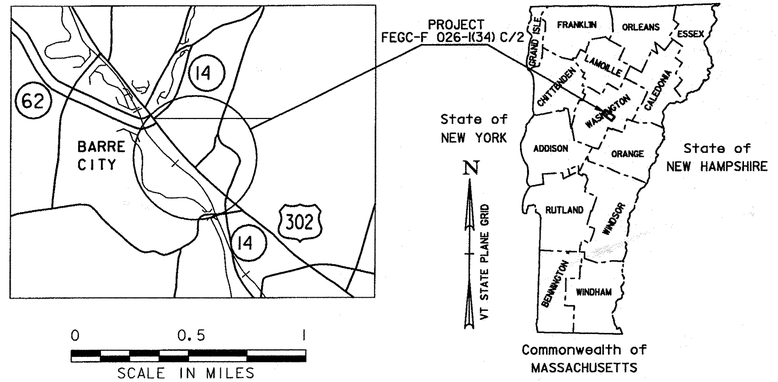
INDEX OF SHEETS

(SEE SHEET 2)

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
CITY OF BARRE
COUNTY OF WASHINGTON
U.S. RTE. 302 (MINOR ARTERIAL)



TRAFFIC DATA

2011 - AADT 18,200
2031 - AADT 20,000
2031 - ADTT 2700
2031 - DHV 1500
2031 - D% 54
2031 - T% 7.0

2031 - 20 YEARS ESAL's 10,913,000
2051 - 40 YEARS ESAL's 26,848,000

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS	5,893,000
DESIGN NUMBER OF GYRATIONS	80
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

CAUTION

THERE ARE ABANDONED INACTIVE UNDERGROUND GAS LINES AND SHUTOFFS IN PROJECT AREA. WHEN THEY ARE ENCOUNTERED THE LINES SHOULD BE HANDLED ACCORDING TO THE CITY OF BARRE'S "PERMIT TO WORK WITHIN RIGHT-OF-WAY", BY CONTACTING BARRE CITY'S ENGINEERING AND WATER DEPARTMENT BEFORE BEING DISTURBED.

ALL SEWER, WATER AND ROOF DRAIN DESIGN INFORMATION CONTAINED IN THESE PLANS HAS BEEN INDEPENDENTLY PROVIDED BY THE DUFRESNE GROUP CONSULTING ENGINEERS, AS SHOWN ON THE SEWER AND WATER PLANS PROVIDED HEREIN BY THE DUFRESNE GROUP

RECORD PLANS

CONTRACTOR: LUCK BROTHERS, INC. – PLATTSBURGH, NY

RESIDENT ENGINEER: RICK HALE

CONSTRUCTION BEGAN: JULY 5, 2011

CONSTRUCTION COMPLETE: JUNE 28, 2013

RECORD PLANS BY: RICK HALE & KEVIN KING

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY Rick Hale RESIDENT ENGINEER

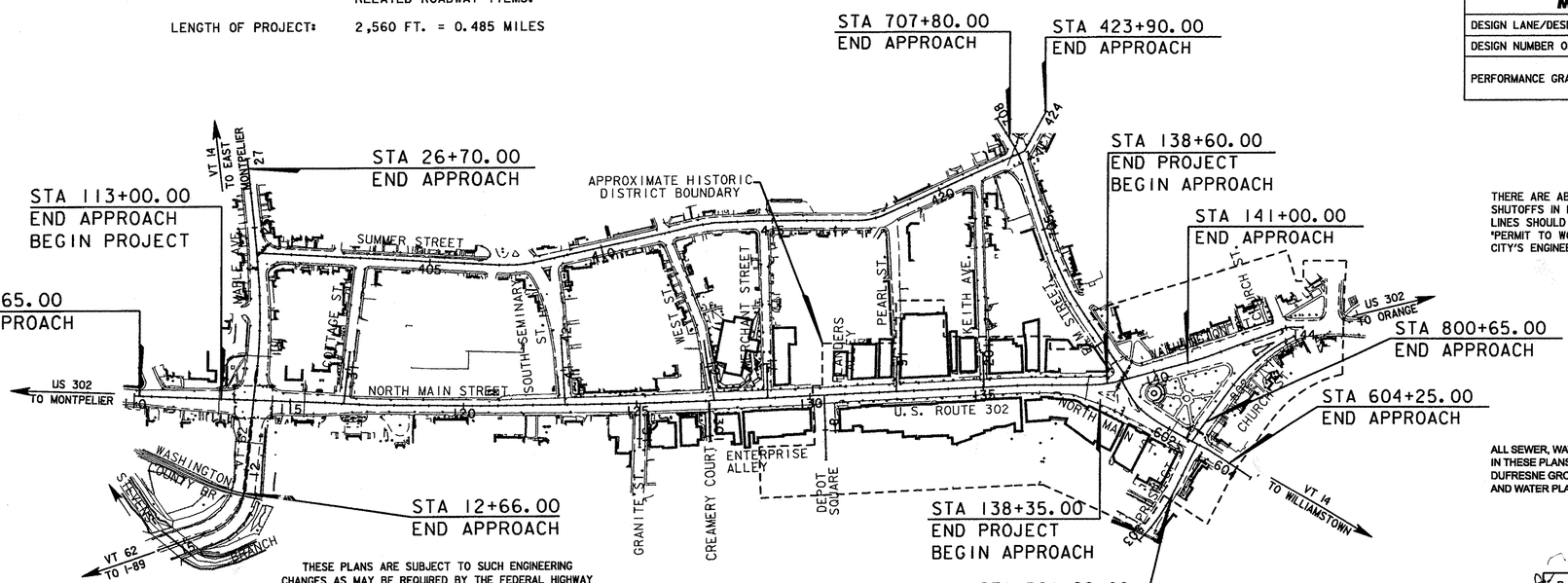
DATE 05/05/2016

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.

PROJECT LOCATION: BEGINNING AT A POINT ON U. S. RTE. 302 IN THE CITY OF BARRE APPROXIMATELY 90 FEET WESTERLY OF THE INTERSECTION OF VT. ROUTE 62 AND NORTH MAIN STREET AND EXTENDING EASTERLY APPROXIMATELY 0.485 MILES.

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT CONSISTS OF PAVEMENT, NEW SUBBASE, DRAINAGE, SEWER AND WATER, SIGNALIZATION, LIGHTING, SIDEWALKS, SIGNS, PAVEMENT MARKINGS, LANDSCAPING, AND OTHER RELATED ROADWAY ITEMS.

LENGTH OF PROJECT: 2,560 FT. = 0.485 MILES



QUALITY ASSURANCE PROGRAM: LEVEL 2

CONVENTIONAL SYMBOLS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

SURVEYED BY : VSE, Inc.
SURVEYED DATE : 1990, 2004

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

STATE OF VERMONT
DANIEL M. PEARL
NO. 010.0017.LIC
PROFESSIONAL ENGINEER
3-24-2011

PLANS PREPARED BY:

VHB Vanasse Hangen Brustlin, Inc.

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED _____ DATE 3-25-2011

PROJECT MANAGER : KEN UPMAL, P.E.

PROJECT NAME : BARRE CITY
PROJECT NUMBER : FEGC F 026-I(34) C/2

SHEET 1 OF 339 SHEETS

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS
3-5	TYPICAL SECTIONS
6-7	CONSTRUCTION DETAILS
8-9	DRAINAGE DETAILS
10	VT ROUTE 62 PROPOSED DRAINAGE PLAN
11	VT ROUTE 62 PROPOSED DRAINAGE PROFILE
12-17	QUANTITY SHEETS
18	ITEM DETAIL SHEET
19-23	DRAINAGE DETAIL SHEETS
24-25	EARTHWORK SUMMARY SHEETS
26	BOUND COORDINATES
27	SURVEY TIES
28	ALIGNMENT POINTS
29	PLAN SHEET KEY
30-43	ALIGNMENT AND CURB LAYOUT PLANS
44	CURBED ISLAND DETAILS
45-55	BORING LOGS
56-68	GENERAL PLANS
69-74	PROFILES
75-78	DRAINAGE PROFILES
79-83	STREET LIGHTING PLANS
84	STREET LIGHTING DETAILS AND NOTES
85-90	LANDSCAPING PLANS
91-94	LANDSCAPING DETAILS
95	OVERHEAD SIGN SUPPORT NOTES
96-109	SIGNS AND PAVEMENT MARKING PLANS
110	GUIDE SIGN LAYOUT SHEET
111-130	TRAFFIC SIGN SUMMARY SHEETS
131	OVERHEAD TRAFFIC SIGN BRIDGE/FOOTING DETAIL SHEET
132	CANTILEVER SIGN STRUCTURE CROSS SECTIONS
133-157	WATER AND SEWER PLAN SHEETS (BY DUFRESNE GROUP)
158	BOX CULVERT DETAILS
159	EPSC NARRATIVE
160-162	EPSC SITE PLANS
163-164	EPSC DETAIL SHEETS
165-167	TRAFFIC SIGNAL PLAN 1
168-170	TRAFFIC SIGNAL PLAN 2
171	TRAFFIC SIGNAL PLAN 3
172	TRAFFIC CONTROL NOTES
173-174	CONST. & DETOUR SIGNING PLAN PHASE IA
175-176	CONST. & DETOUR SIGNING PLAN PHASE IB
177-178	CONST. & DETOUR SIGNING PLAN PHASE IC
179-180	CONST. & DETOUR SIGNING PLAN PHASE ID
181	CONST. & DETOUR SIGNING PLAN PHASE IE
182-188	CONST. & DETOUR SIGNING PLANS - PHASES 2-6
189-194	TEMPORARY TRAFFIC SIGNAL PLANS
195-201	TEMP. SIGNS & PAVEMENT MARKING PLANS
202-203	TEMPORARY TRAFFIC SIGN SUMMARY SHEETS
204-228	RIGHT-OF-WAY PLANS

INDEX OF SHEETS CONT.

	CROSS SECTIONS
229-275	NORTH MAIN STREET (STA. 110+65 - 141+00)
276-281	ROUTE 62 (STA. 10+00 - 15+00)
282-288	MAPLE AVE. (STA. 20+00 - 26+00)
289-292	COTTAGE STREET (STA. 30+00 - 31+42)
293-295	SOUTH SEMINARY STREET (STA. 40+00 - 42+00)
296-298	GRANITE STREET (STA. 50+00 - 51+25)
299-301	CREAMERY COURT (STA. 300+00 - 301+00)
302-305	WEST STREET (STA. 60+00 - 61+75)
306-309	MERCHANT STREET (STA. 70+00 - 71+00)
310-314	DEPOT SQUARE (STA. 80+00 - 81+85)
315-316	PEARL STREET (STA. 90+00 - 90+75)
317-318	KEITH AVENUE (STA. 200+00 - 200+70)
319-322	NORTH MAIN TO PROSPECT STREET (STA. 600+00 - 603+50)
323-324	PROSPECT STREET (STA. 500+00 - 501+42)
325-333	ELM STREET (STA. 700+00 - 707+80)
334-335	CHURCH STREET (STA. 800+00 - 800+75)
336-339	SUMMER STREET (STA. 400+00 - 402+00) (STA. 422+11)

STANDARD SHEETS

C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10-14-05
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10-14-05
C-3A	SIDEWALK RAMPS	03-10-08
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	03-10-08
C-10	CURBING	02-11-08
D-3	TREATED GUTTERS	06-01-94
D-4	VARIOUS DRAINAGE DETAILS	08-13-07
D-6	REINFORCED CONCRETE DROP INLET W/GRATE (DITCHES)	06-01-94
D-8	REINFORCED CONCRETE DROP INLET WITH PRECAST COVER & GRATE	01-03-00
D-9	REINFORCED CONCRETE DROP INLET WITH VERTICAL CURB & THROAT ADAPTER	06-01-94
D-11	STEEL OR IRON GRATES & COVERS (TYPE A)	06-01-94
D-13	CONCRETE CATCH BASIN	01-03-00
D-15	PRECAST REINF CONC. MH-GRATES, CAST IRON GRATE WITH FRAME, TYPE D & E	06-01-94
D-16	DRAINAGE DETAILS INCLUDING DROP INLETS, IRON GRATE TYPE B&C, CONC END SECTIONS. ETC.	06-01-94
E-100	CONSTRUCTION APPROACH SIGNS	01-02-04
E-100A	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	01-02-04
E-101	CONSTRUCTION SIGN DETAILS	05-30-03
E-102	CONSTRUCTION SIGN DETAILS	06-30-03
E-102A	CONSTRUCTION SIGN DETAILS	05-01-04
E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	03-01-04
E-106	TRAFFIC CONTROL-MISCELLANEOUS DETAILS	03-01-04
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	06-30-03
E-107A	BREAKAWAY BARRICADE DETAILS	06-08-09
E-108	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	06-08-09
E-108A	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS FOR PAVING	06-08-09
E-119	UTILITY WORK ZONE	03-01-04
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-95
E-123	GUIDE SIGN PLACEMENT-MISCELLANEOUS DETAILS	03-16-04
E-130	TYPE "B" GUIDE SIGN, ATTACHMENT DETAILS	08-08-95
E-132	GENERAL MOTORIST SERVICE SIGN DETAILS	08-18-95
E-135	INTERSTATE ROUTE MARKER SIGN DETAILS	08-18-95
E-136A	U.S. ROUTE MARKER SIGN DETAILS	08-08-95
E-136B	STATE ROUTE MARKER SIGN DETAILS	08-08-95
E-138	MILEMARKER DETAILS - STATE & TOWN HIGHWAYS	05-30-03

STANDARD SHEETS CONT.

E-140	REGULATORY SIGN DETAILS	08-30-96
E-142	REGULATORY SIGN DETAILS	09-20-95
E-143	REGULATORY SIGN DETAILS	06-15-04
E-144	REGULATORY SIGN DETAILS	03-29-99
E-145A	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS	12-23-94
E-145B	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS	12-23-94
E-146	REGULATORY SIGN DETAILS	09-20-95
E-150	WARNING SIGN DETAILS	05-01-04
E-151	WARNING SIGN DETAILS	05-01-04
E-152	WARNING SIGN DETAILS	05-01-04
E-153	WARNING SIGN DETAILS	05-01-04
E-153B	WARNING SIGN DETAILS	05-30-03
E-164	SQUARE STEEL SIGN POST	06-08-09
E-170	TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED	11-04-99
E-171A	TRAFFIC CONTROL SIGNALS GENERAL NOTES & DETAILS	08-09-95
E-171B	TRAFFIC CONTROL SIGNALS MISC. DETAILS	08-09-95
E-171C	TRAFFIC CONTROL SIGNALS CANTILEVER MOUNTING DETAILS	08-09-95
E-172	VEHICLE DETECTOR LOOP DETAILS	08-09-95
E-173	PULL BOXES AND JUNCTION BOXES	08-09-95
E-175	POWER DROP STANCHIONS	06-08-09
E-180A	STREET LIGHTING DETAILS	08-09-95
E-180B	STREET LIGHTING DETAILS	08-09-95
E-190	RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS	06-30-03
E-191	PAVEMENT MARKING DETAILS	02-01-99
E-192	PAVEMENT MARKING DETAILS	10-12-00
E-193	PAVEMENT MARKING DETAILS	08-18-95
F-2	CHAIN LINK FENCE, TYPE I DETAILS	06-01-94
G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	01-03-00
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	01-03-00
G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	11-15-02

ADDITIONAL SYMBOLS

EXIST. STREET LIGHT

EXISTING SURVEY CONTROL POINTS

PROP. ORNAMENTAL STREET LIGHT

PROP. SIGNAL POLE W/LUMINAIRE

FIRE CALL BOX — FB

PROPOSED GRANITE POST AND CHAIN FENCE

EXISTING TREE TO BE REMOVED — R

PROPOSED DECIDUOUS TREE

PROPOSED DECIDUOUS TREE WITH 4'X5' TREE PIT

PROPOSED SHRUB

PROPOSED TREE PIT OR TREE LOCATION

COBBLESTONE PAVERS

IMPRINTED 5" CONCRETE SIDEWALK

CU STRUCTURAL SOIL LIMITS

SCORED CONCRETE SIDEWALK

PROPOSED STEEL BENCH WITH BACK

PROPOSED STEEL BENCH WITHOUT BACK

PROPOSED PARKING METER POST

PROPOSED TRASH RECEPTACLE — TR

PROPOSED BICYCLE RACK — UBR

PROPOSED FIRE HYDRANT

PROPOSED PULL BOX — PB

PROPOSED RECEPTACLE, WATERPROOF, DUPLEX, GFI

PROPOSED LIGHTING CONDUIT

PROPOSED WATER LINE — PW — PW —

PROPOSED SEWER LINE — PS — PS —

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_IND_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
INDEX OF SHEETS

PLOT DATE: 3/23/2011
DRAWN BY: DMP / JAR
CHECKED BY:

MATERIAL TOLERANCES

MATERIAL ITEM	THICKNESS TOLERANCE
PAVEMENT (TOTAL DEPTH)	¾"
SUBBASE (TOTAL DEPTH)	1"
SAND (TOTAL DEPTH)	1"

SEEDING FORMULA
URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
42.5	34.0	CREEPING RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.00	80.0			

GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT ON EXISTING PAVEMENT SURFACES AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULA OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

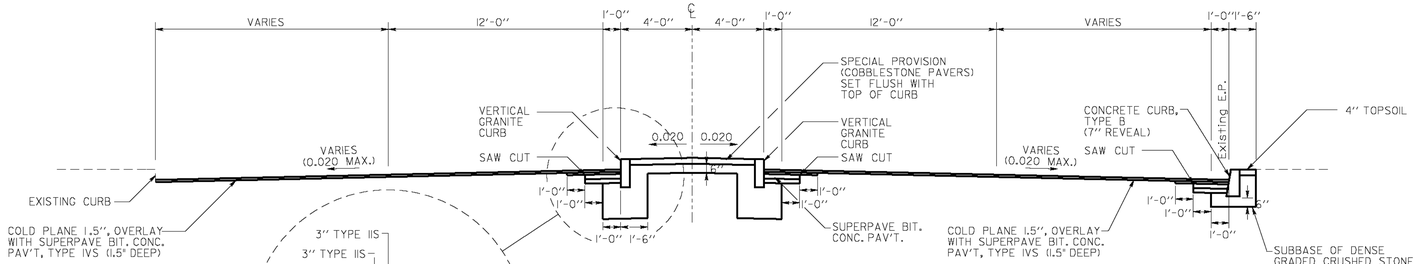
TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.025 GAL/SY ON EXISTING PAVEMENT AND BETWEEN SUCCESSIVE COURSES OF PAVEMENT OR AS DIRECTED BY THE ENGINEER.

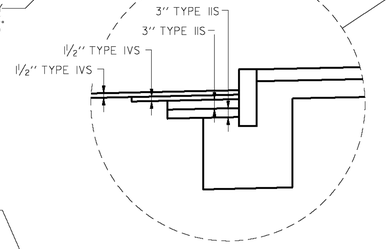
THE PROPOSED PAVEMENT OVERLAYS AND PAVEMENT WIDENINGS SHALL MATCH THE EXISTING ROADWAY CROSS SLOPES.

SIDEWALK RAMP DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME DETECTABLE WARNING CAST IRON PLATES, PAINTED YELLOW. THE PLATES SHALL BE MANUFACTURED BY NEENAH FOUNDRY, OR ANOTHER EQUAL CAST IRON PLATE PRODUCT FROM THE AGENCY'S APPROVED PRODUCTS LIST.

SAWCUT OF EXISTING PAVEMENT OR SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION ITEMS (TYP).

ALL THE EXISTING PAVEMENT WITHIN THE "PROJECT" LIMITS SHALL BE COLD-PLANED TO ITS FULL DEPTH.

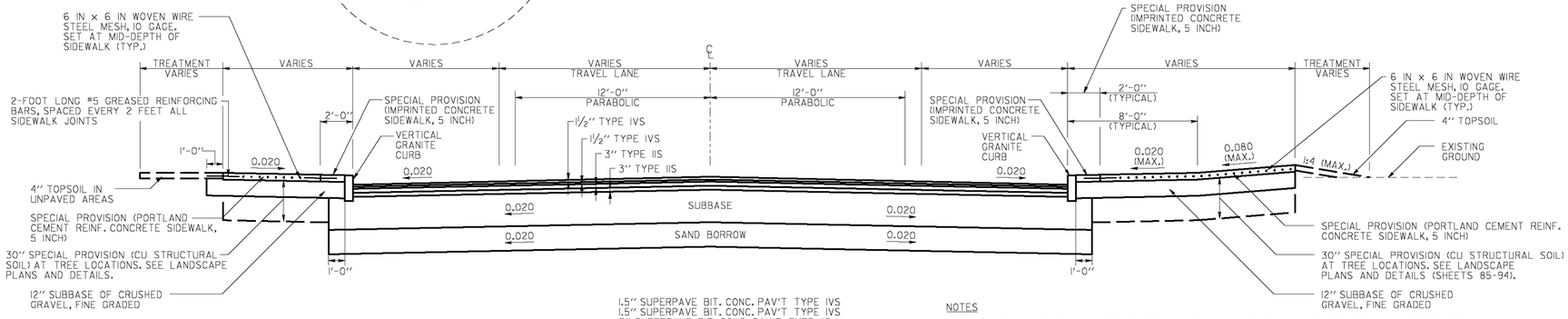




1.5" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
1.5" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
24" SUBBASE OF DENSE GRADED CRUSHED STONE

VERMONT ROUTE 62

N.T.S.



1.5" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
1.5" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
24" SUBBASE OF DENSE GRADED CRUSHED STONE
18" SAND BORROW

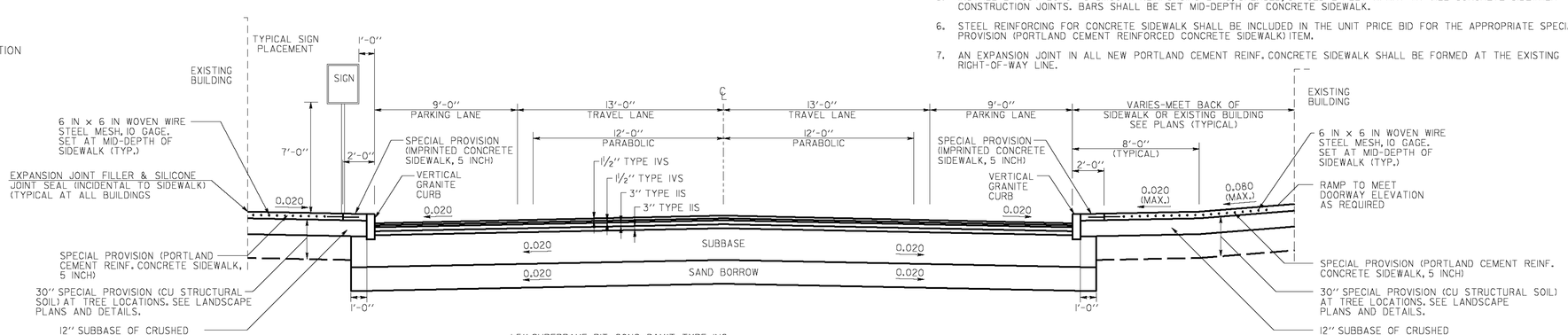
U.S. ROUTE 302 / NORTH MAIN STREET

STA. 113+00 TO STA. 123+25
STA. 136+65 TO STA. 138+60

N.T.S.

NOTES

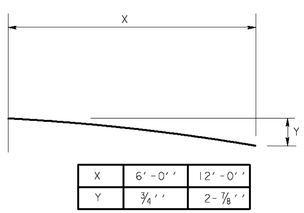
1. AT COMMERCIAL DRIVES CONSTRUCT SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH) OVER 12" SUBBASE OF CRUSHED GRAVEL, FINE GRADED.
2. DURING CONSTRUCTION, EXISTING COBBLESTONES AND A CONCRETE BASE ARE EXPECTED TO BE FOUND WITHIN THE EXISTING PAVEMENT ALONG THE NORTH MAIN STREET CORRIDOR.
3. CONTRACTOR SHALL COORDINATE THE REMOVAL OF THE EXISTING COBBLESTONES WITH THE CITY OF BARRE. ANY COBBLES NOT REMOVED BY THE CITY SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE UNDER THE APPROPRIATE CONTRACT ITEMS.
4. ANY REMAINING EXISTING CONCRETE SUBBASE FOUND DURING THE ROADWAY CONSTRUCTION SHALL BE REMOVED AND PAID FOR UNDER ITEM 203.16 - SOLID ROCK EXCAVATION.
5. INSTALL 2-FOOT LONG #5 SMOOTH REINFORCING BARS, GREASED, SPACED 2-FEET APART AT ALL CONCRETE SIDEWALK CONSTRUCTION JOINTS. BARS SHALL BE SET MID-DEPTH OF CONCRETE SIDEWALK.
6. STEEL REINFORCING FOR CONCRETE SIDEWALK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE SPECIAL PROVISION (PORTLAND CEMENT REINFORCED CONCRETE SIDEWALK) ITEM.
7. AN EXPANSION JOINT IN ALL NEW PORTLAND CEMENT REINF. CONCRETE SIDEWALK SHALL BE FORMED AT THE EXISTING RIGHT-OF-WAY LINE.



1.5" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
1.5" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
24" SUBBASE OF DENSE GRADED CRUSHED STONE
18" SAND BORROW

U.S. ROUTE 302 / NORTH MAIN STREET

STA. 123+25 TO STA. 136+65
N.T.S.

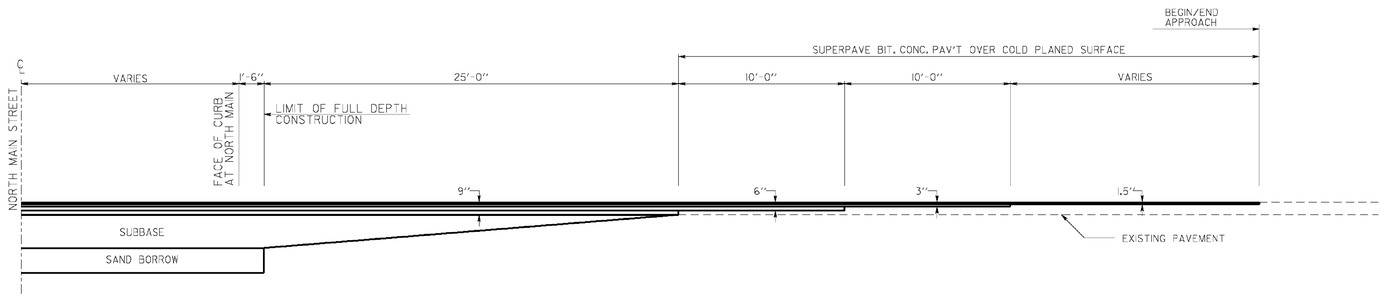


X	6'-0"	12'-0"
Y	¾"	2-⅞"

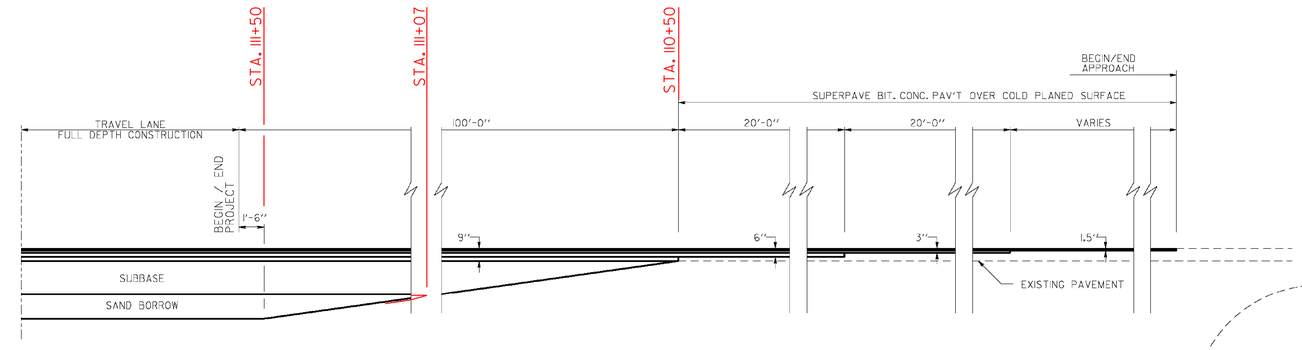
TYPICAL PARABOLIC SHAPE

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85D010_TYP_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
TYPICAL SECTIONS #1	SHEET 3 OF 339

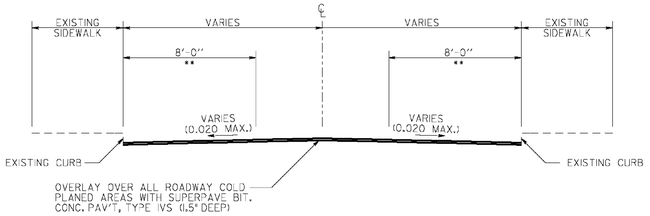
VHB Vanasse Hangen Brustlin, Inc.



SIDE STREET TRANSITION
N.T.S.



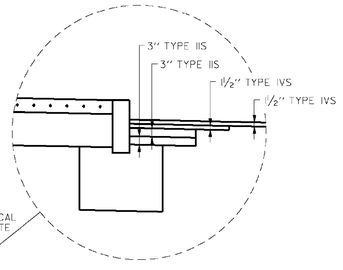
NORTH MAIN STREET TRANSITION
N.T.S.

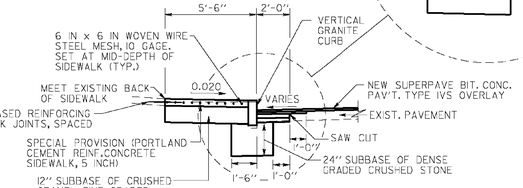


** NOTE:

THE COLD PLANING DEPTH MAY EXCEED 2" AT 8'-0" FROM THE CUTTER LINE IN ORDER TO MAXIMIZE REVEAL AT THE FACE OF EXISTING CURB (7" MAX. REVEAL).

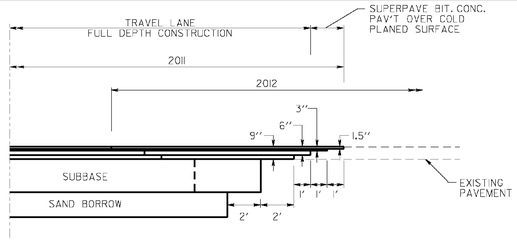
COLD PLANING / RESURFACING
SEE PLANS FOR LOCATIONS
N.T.S.



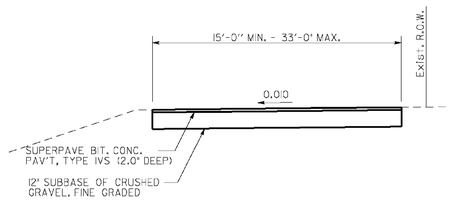


1½" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
1½" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
24" SUBBASE OF DENSE GRADED CRUSHED STONE

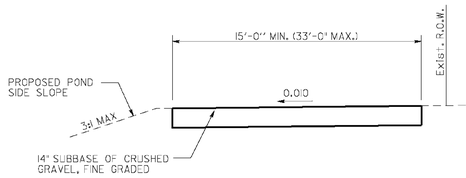
SIDEWALK CONSTRUCTION AT OVERLAY AREAS
N.T.S.



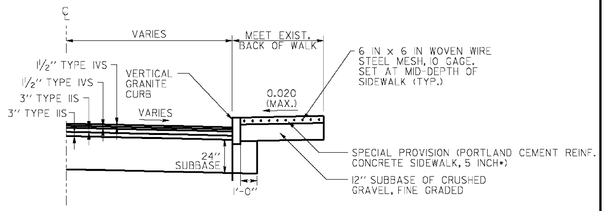
END OF SEASON PAVEMENT TRANSITION DETAIL
N.T.S.



WET POND ACCESS DRIVE (PAVED)
N.T.S.



WET POND ACCESS DRIVE (UNPAVED)
N.T.S.



NOTE:
SEE SIDE STREET TRANSITION DETAIL FOR ADDITIONAL INFORMATION

NOTE:
* AT COMMERCIAL DRIVES, USE SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH)

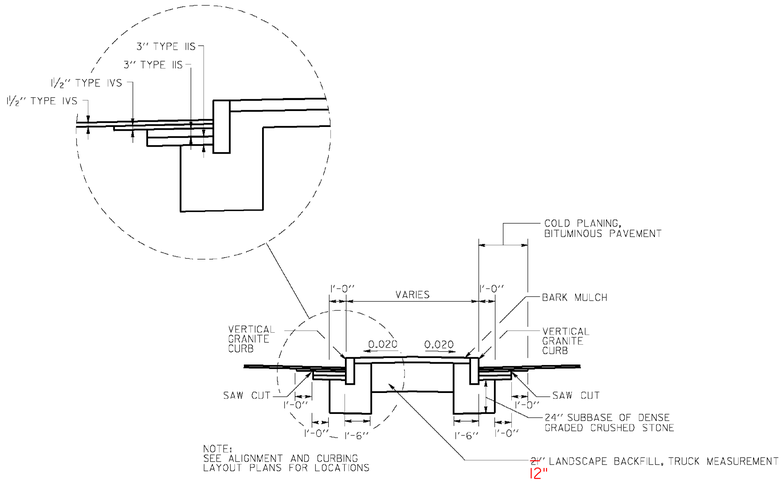
1½" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
1½" SUPERPAVE BIT. CONC. PAV'T TYPE IVS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
3" SUPERPAVE BIT. CONC. PAV'T TYPE IIS
24" SUBBASE OF DENSE GRADED CRUSHED STONE

SIDE STREET (FULL DEPTH)
N.T.S.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2

FILE NAME: 85b010_TYP_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
TYPICAL SECTIONS #2	SHEET 4 OF 339

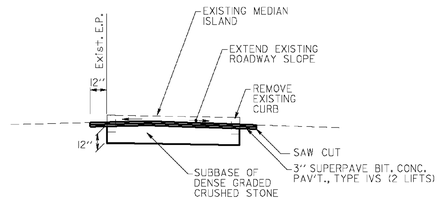
VHB Vanasse Hangen Brustlin, Inc.



MEDIAN ISLAND PLANTING BED

N.T.S.

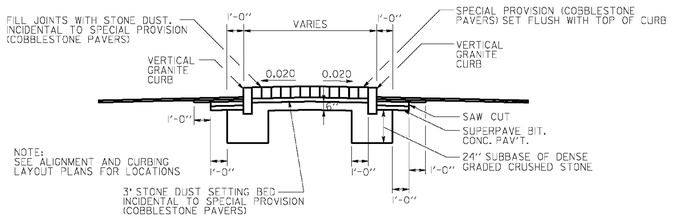
VT 62 STA 10+70 - 11+00
STA 11+52 - 11+68
MAPLE AVE. STA 20+47 - 20+75



TEMPORARY STAGING

N.T.S.

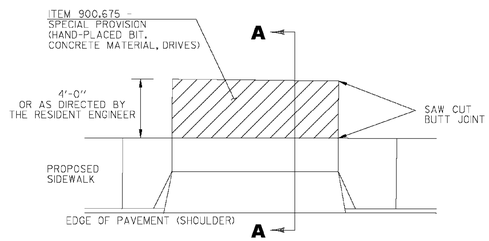
MAPLE AVE. STA 20+47 - 20+95
VT 62 STA. 10+55 - 12+63



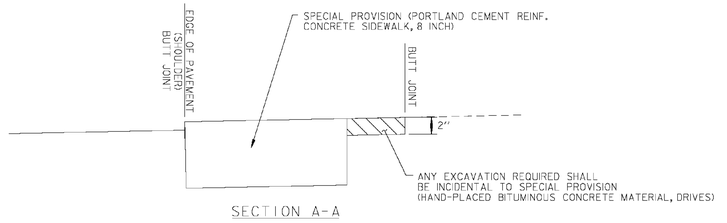
MEDIAN ISLAND COBBLESTONES

N.T.S.

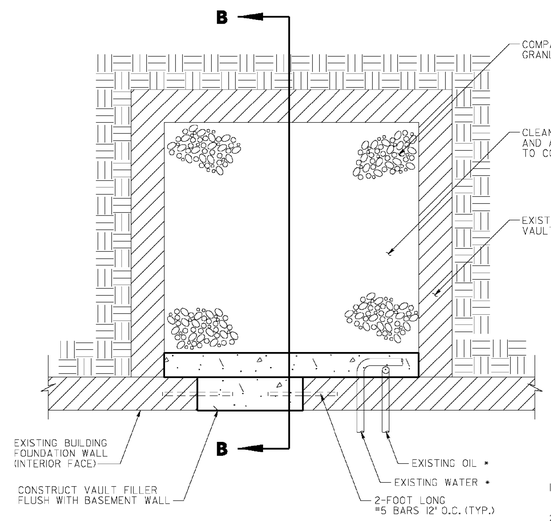
VT 62 STA 10+56 - 10+70
STA 10+82 - 11+52
STA 11+68 - 12+37
NORTH MAIN STREET STA 600+45 - 601+24



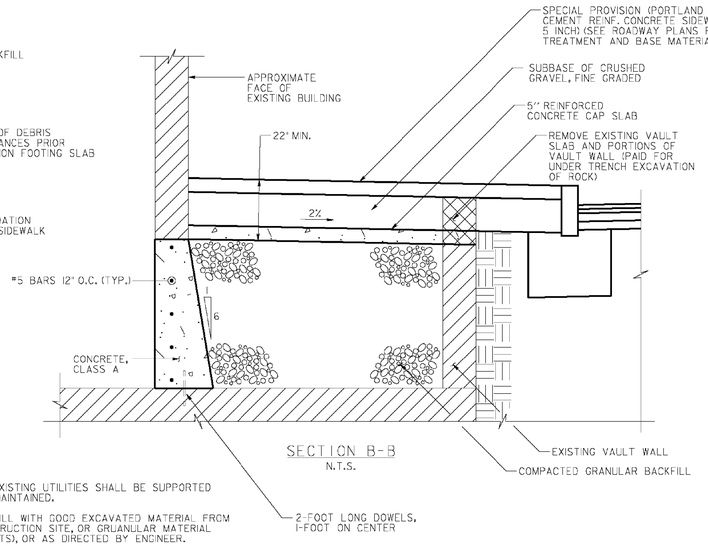
PLAN



SECTION A-A



PLAN



SECTION B-B

N.T.S.

SCHEMATIC SIDEWALK VAULT CLOSURE SECTION

N.T.S.

STA 600+50 RT.

NOTES

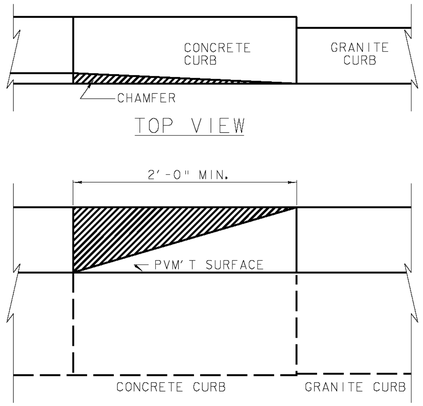
1. ALL EXISTING UTILITIES SHALL BE SUPPORTED AND MAINTAINED.
2. BACKFILL WITH GOOD EXCAVATED MATERIAL FROM CONSTRUCTION SITE, OR GRUANULAR MATERIAL (6" LIFTS), OR AS DIRECTED BY ENGINEER.
3. CONTRACTOR MAY FIND OTHER AREAS ON THE PROJECT SITE WITH SIMILAR CONDITONS UNDER THE SIDEWALK
4. ALL OF THE ABOVE WORK SHALL BE PAID UNDER THE RESPECTIVE BID ITEMS.
5. CONTRACTOR SHALL APPLY WATERPROOFING TO NEW BASEMENT CONCRETE, INCIDENTAL TO THE WORK.

HANDWORK DETAILS FOR PAVED DRIVES

STATION	POSITION	QUANTITY (SY)
111+78	RT	9.9
112+02	LT	6.7
112+48	LT	14.4
112+55	RT	14.2
SL 113+11	RT	319.8
114+93	RT	16.8
115+12	LT	28.7
115+60	LT	43.6
116+09	LT	52.3
116+27	RT	43.6
117+44	RT	6.5
118+49	RT	3.4
118+75	RT	241.3
120+26	LT	4.9
122+76	RT	3.3
SL 41+45	LT	6.1
125+90	LT	32.0
126+49	LT	9.9
129+51	LT	3.0
131+14	LT	12.5
136+71	LT	1.7

VHB Vanasse Hangen Brustlin, Inc.

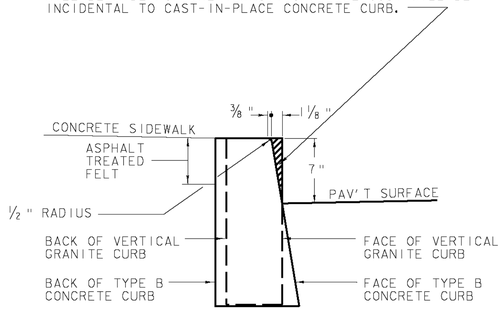
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_TYP_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
TYPICAL SECTIONS #3	SHEET 5 OF 339



TOP VIEW

ELEVATION VIEW

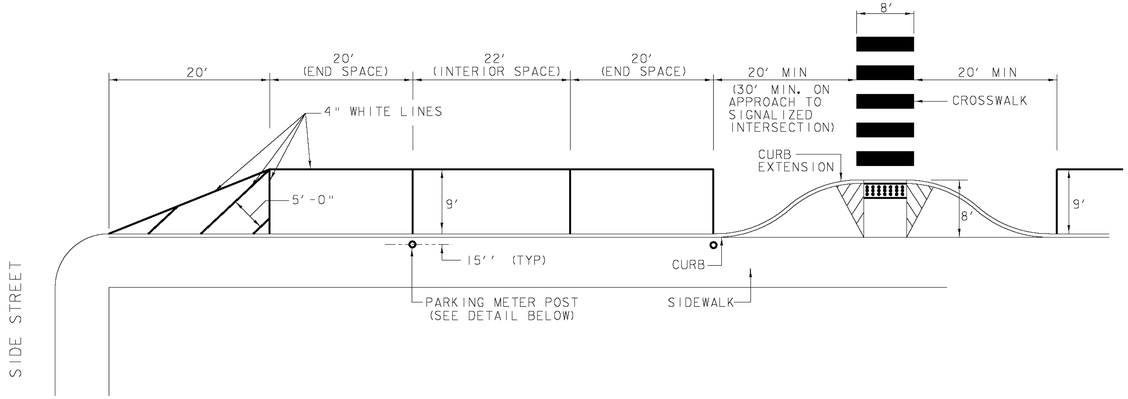
CAST CONCRETE CURB WITH CHAMFER TO MATCH GRANITE IN FIELD. CHAMFER TO MATCH AT CONCRETE/GRANITE JOINT AND BLEND TO FULL SECTION OF GRANITE CURB OVER 2'-0" MINIMUM LENGTH OF CONCRETE. NO SEPARATE PAYMENT WILL BE MADE FOR THE TRANSITION. THE COST WILL BE INCIDENTAL TO CAST-IN-PLACE CONCRETE CURB.



END VIEW

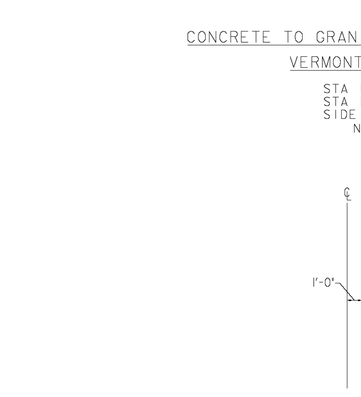
CONCRETE TO GRANITE CURB TRANSITION
VERMONT ROUTE 62

STA 10+64 LT
STA 11+10 RT
SIDE STREETS
N.T.S

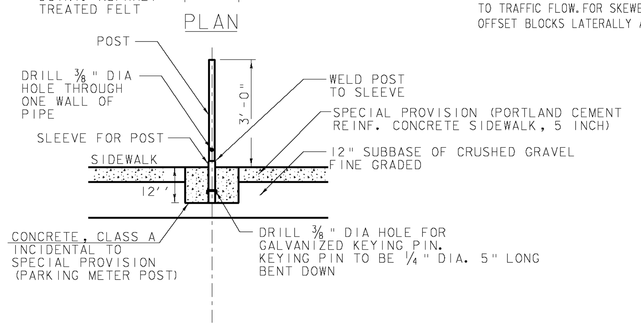


TYPICAL PARKING SPACE AND CROSSWALK LAYOUT

N.T.S



PLAN



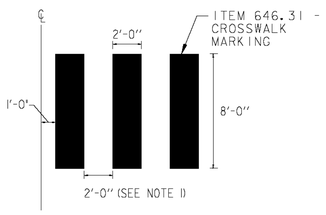
SECTION B-B

NOTE:

SEE SIGNS AND PAVEMENT MARKING PLANS FOR PARKING METER POST LOCATIONS.

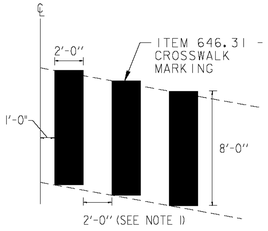
PARKING METER POST INSTALLATION

N.T.S.

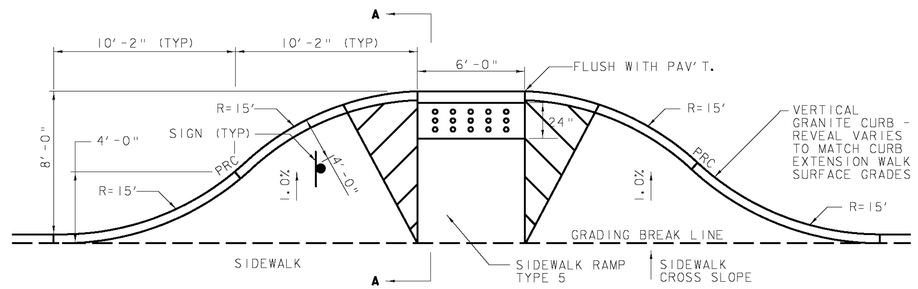


BLOCK STYLE CROSSWALK MARKING
(90 DEGREES)
N.T.S.

1. ADJUST SPACING (12" TO 24") TO AVOID WHEEL PATHS
2. BLOCKS SHOULD BE INSTALLED PARALLEL TO TRAFFIC FLOW. FOR SKEWED CROSSINGS, OFFSET BLOCKS LATERALLY AS NEEDED.



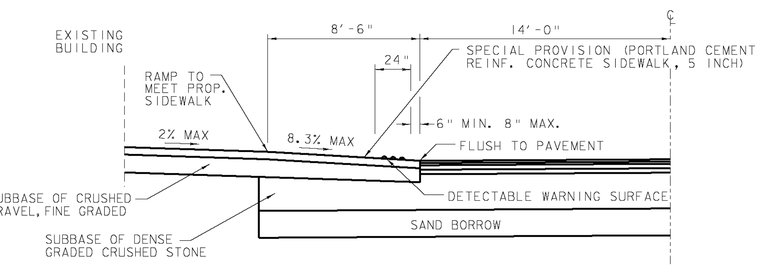
BLOCK STYLE CROSSWALK MARKING
(ON SKEW)
N.T.S.



NOTE: REFER TO VT STANDARD SHEETS C-3A & C-3B FOR ADDITIONAL SIDEWALK RAMP CONSTRUCTION DETAILS.

TYPICAL CURB EXTENSION

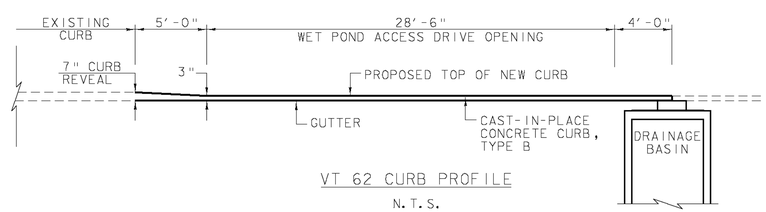
N.T.S.



NOTE:
SEE SHEETS 3-5 FOR SIDEWALK AND PAVEMENT STRUCTURES.

CURB EXTENSION SECTION A-A

N.T.S.

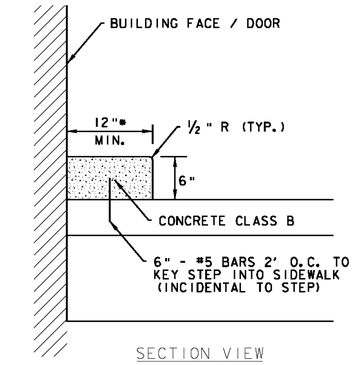


VT 62 CURB PROFILE

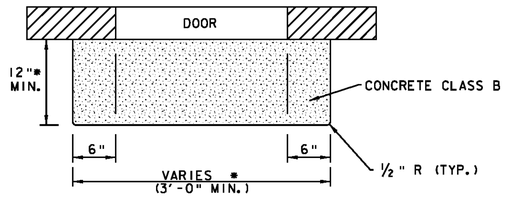
N.T.S.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85D010_DET_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CONSTRUCTION DETAILS #1	SHEET 6 OF 339



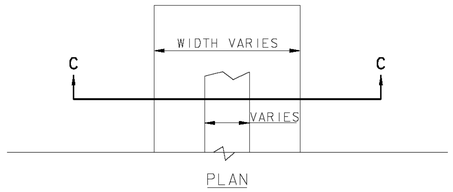
SECTION VIEW



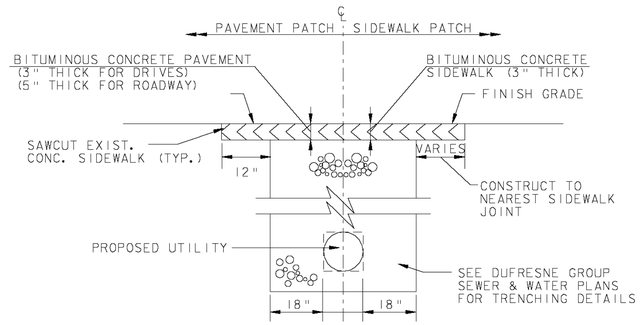
PLAN VIEW

* MATCH EXISTING
STEP DIMENSIONS

CONCRETE STEP
N.T.S.

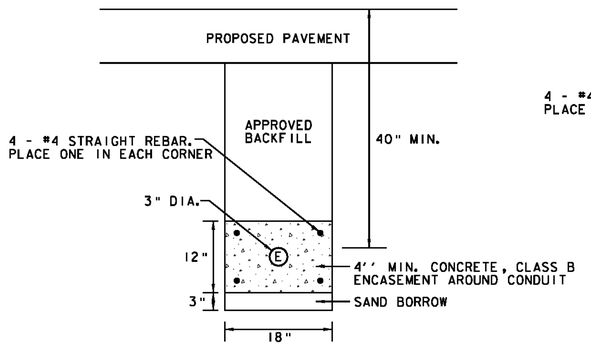


PLAN

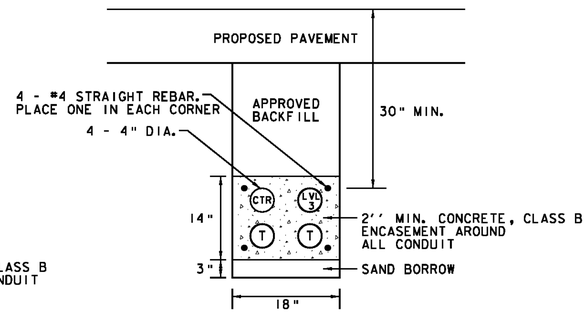


SECTION C-C

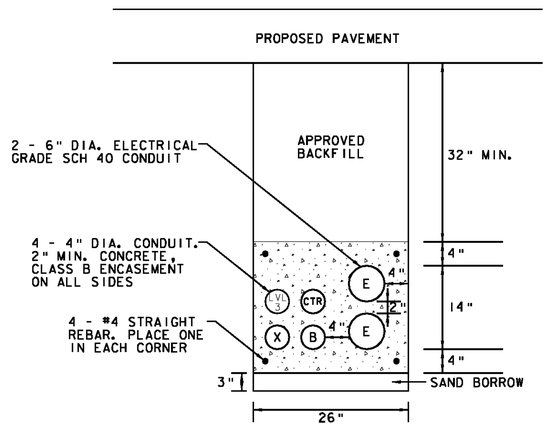
TEMPORARY BITUMINOUS CONCRETE PATCH AT UTILITY TRENCH
N.T.S.



SPECIAL PROVISION (DUCT BANK) (1 CONDUIT)
SEE GENERAL PLANS FOR LOCATIONS
N.T.S.



SPECIAL PROVISION (DUCT BANK) (4 CONDUIT)
SEE GENERAL PLANS FOR LOCATIONS
N.T.S.



SPECIAL PROVISION (DUCT BANK) (6 CONDUIT)
SEE GENERAL PLANS FOR LOCATIONS
N.T.S.

CONDUIT LEGEND

(X) (B) (T) FAIRPOINT TELECOMMUNICATIONS CONDUIT

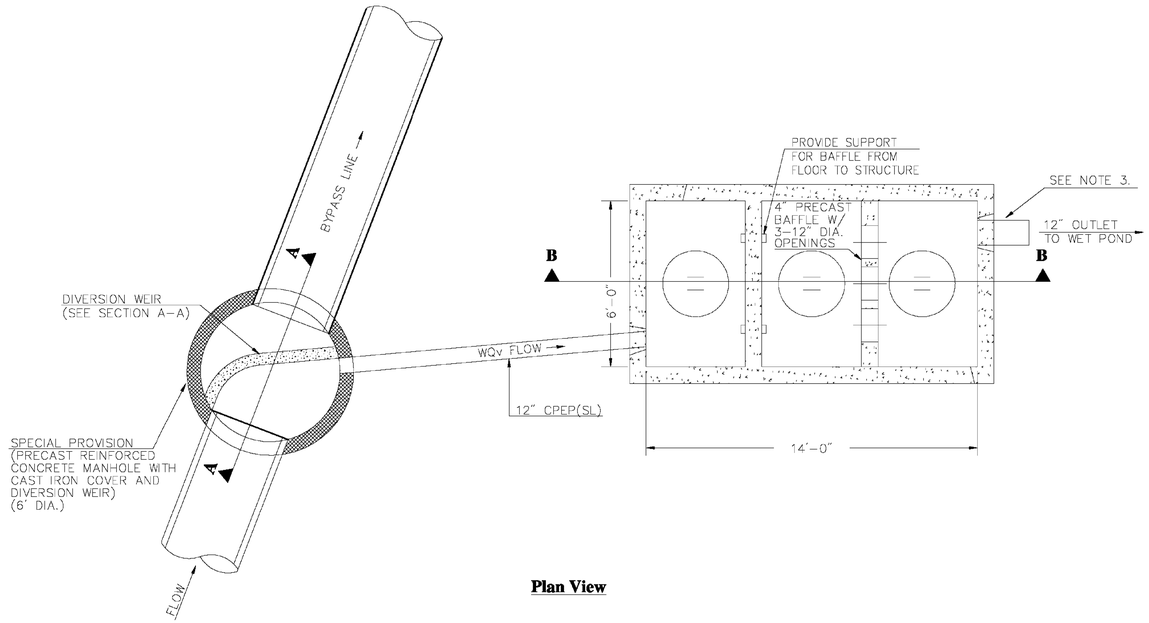
(CTR) CHARTER TELECOMMUNICATIONS CONDUIT

(LVL 3) LEVEL 3 TELECOMMUNICATIONS CONDUIT

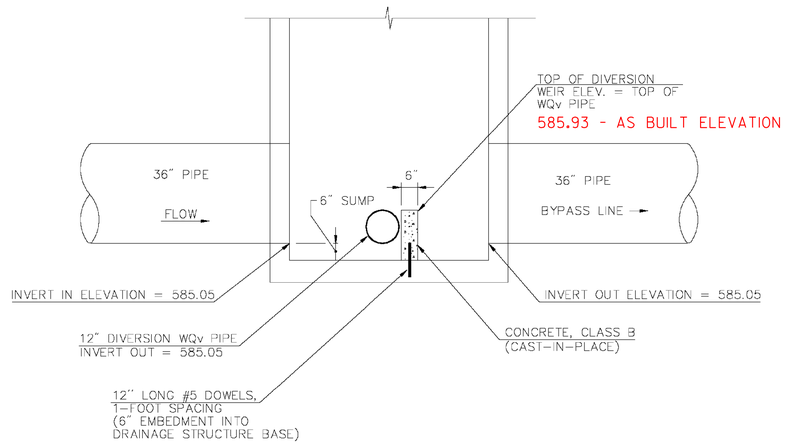
(E) GREEN MOUNTAIN POWER ELECTRICAL CONDUIT

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_DET_C2	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CONSTRUCTION DETAILS #2	SHEET 7 OF 339

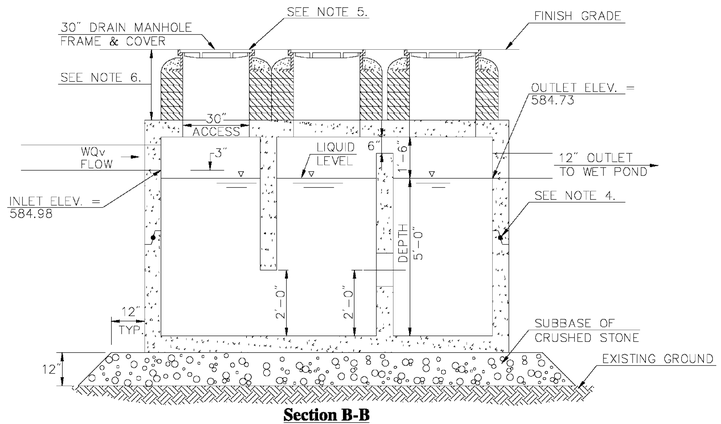


Plan View



Section A-A

SPECIAL PROVISION (PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER AND DIVERSION WEIR) (6' DIA.)



Section B-B

Notes:

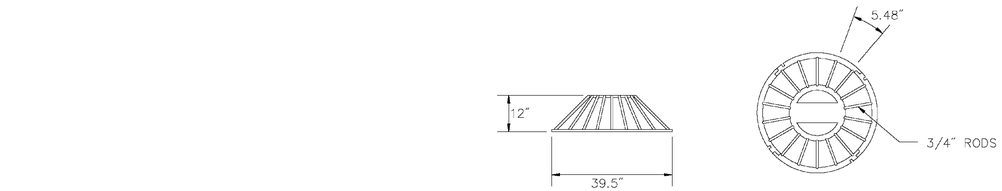
1. PARTICLE SEPARATOR SHALL BE A PRECAST TANK WITH PRECAST BAFFLES AS SHOWN.
2. STRUCTURES SHALL BE DESIGNED FOR HS-20 LOADING.
3. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
4. JOINT SEALANT BETWEEN ALL SECTIONS SHALL BE PREFORMED BUTYL RUBBER
5. DRAIN MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH EITHER GRADE RINGS OR A SYNTHETIC RISER WITH ADHESIVE
6. PRECAST CONCRETE RISERS SHALL BE USED TO BRING MANHOLE FRAMES AND COVERS TO FINISHED GRADE WHEN DEPTH TO TOP OF STRUCTURE EXCEEDS 24 INCHES.

Special Provision (Off-Line Particle Separator)

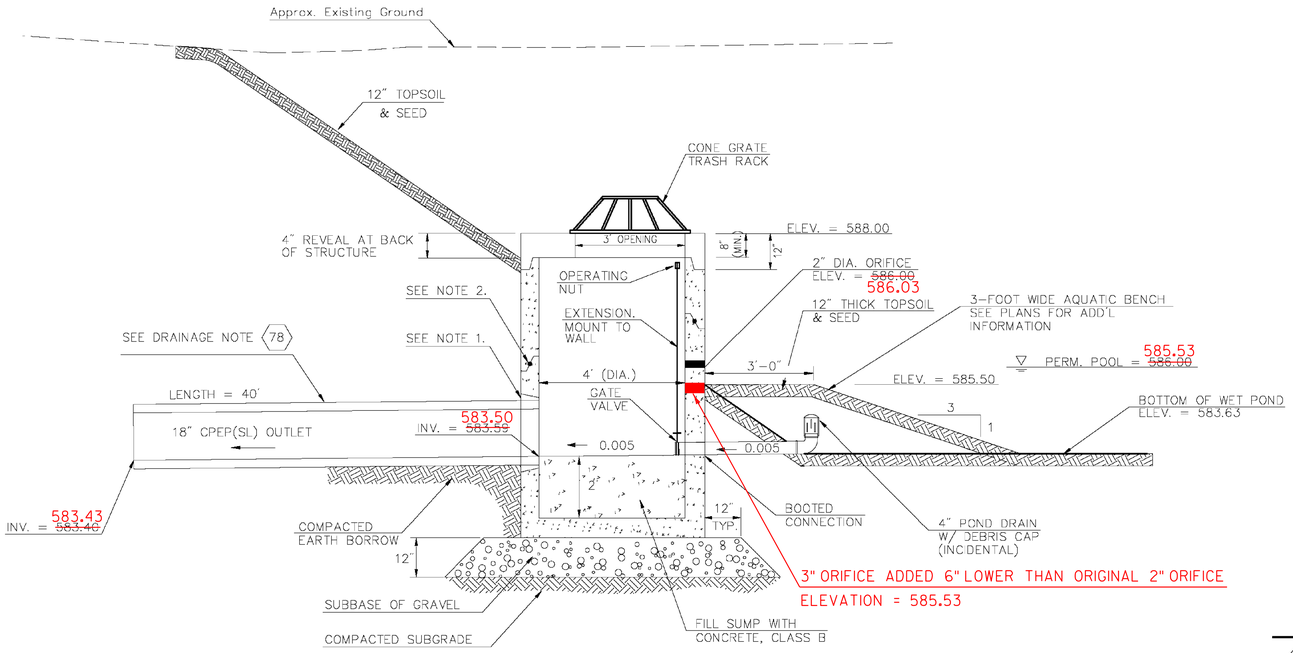
N.T.S.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010_DDET_C2.dgn	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
DRAINAGE DETAILS #1	SHEET 8 OF 339



STEEL CONE GRATE TRASH RACK DETAIL
NTS

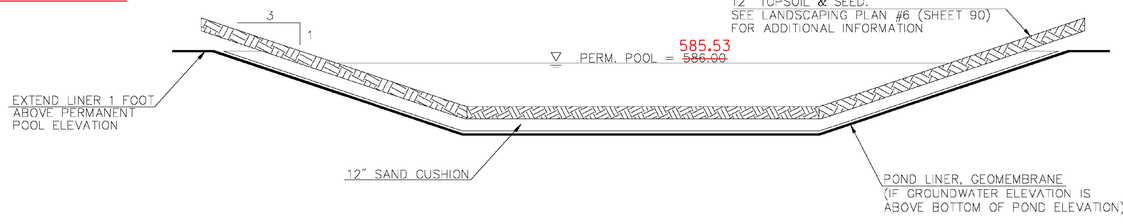


Notes:

1. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

Special Provision (Overflow Control Structure)

N.T.S.



Special Provision (Pond Liner, Geomembrane) Installation

N.T.S.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010_DDET_C2.dgn	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
DRAINAGE DETAILS #2	SHEET 9 OF 339

WACR GRADE CROSSING AT VT 62 - BARRE CITY EXISTING CONDITIONS	
SIGNALS	NO
GATES	NO
SIGNS	YES
CONDUIT FOR PREEMPTION TO STREET SIGNALS	NO
CONDUIT FOR SIGNALS OR GATES	NO
SIGHT DISTANCE	POOR

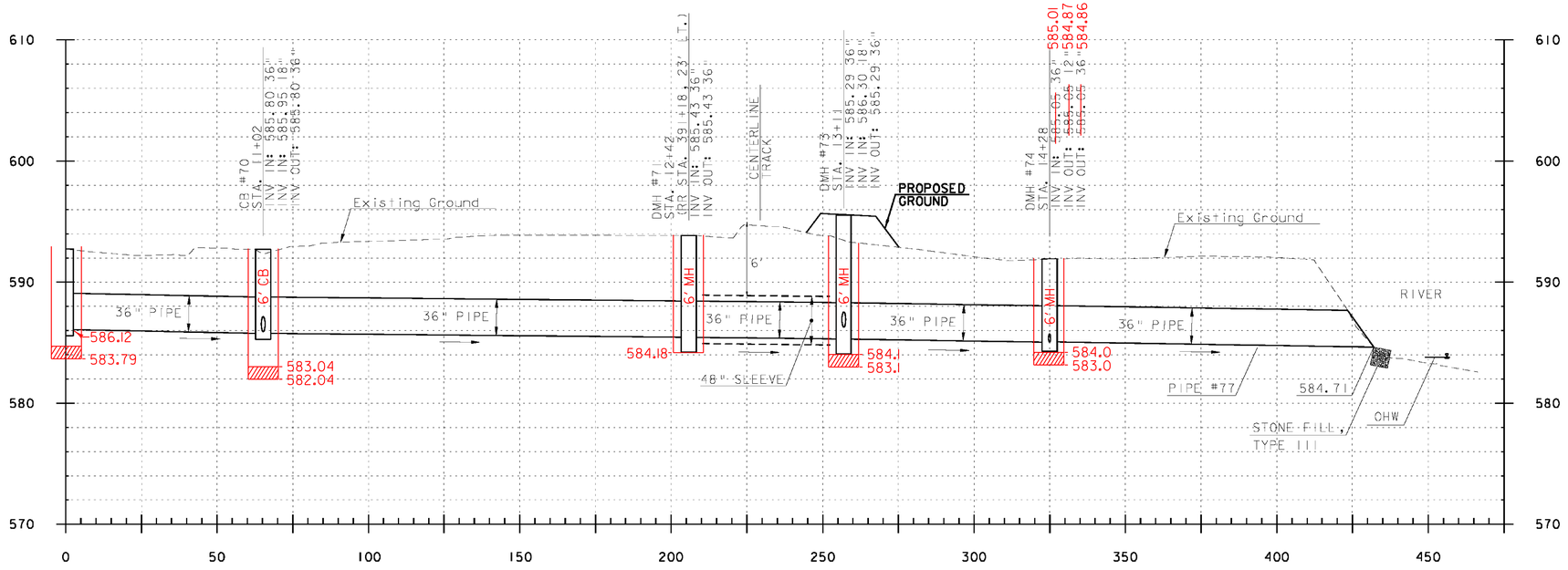
POND BOTTOM POINTS

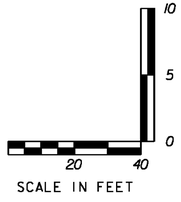
PT.	NORTHING	EASTING
1	620491.41	497503.60
2	620495.29	497492.04
3	620509.76	497477.71
4	620531.95	497479.23
5	620557.56	497482.67
6	620556.42	497494.30
7	620497.47	497508.79
8	620486.00	497495.87
9	620545.44	497473.35

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_RR_C2	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
VT ROUTE 62 PROPOSED DRAINAGE PLAN	SHEET 10 OF 339

VHB Vanasse Hangen Brustlin, Inc.

VT 62 DRAINAGE PROFILE





DATUM

VERTICAL	NAVD 1929
HORIZONTAL	NAD 27

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_RRPROF_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
VT ROUTE 62 PROPOSED DRAINAGE PROFILE	SHEET 11 OF 339

STATE OF VERMONT
AGENCY OF
TRANSPORTATION

QUANTITY SUMMARY SHEET

SUMMARY OF ESTIMATED QUANTITIES

FULL C.E. ITEMS	UTILITIES (NON-PARTICIPATING)	UTILITIES	EROSION CONTROL	LANDSCAPING	LANDSCAPING (NON-PARTICIPATING)	TRAINING	ROADWAY (NON-PARTICIPATING)	ROADWAY	GRAND TOTAL	UNIT	DESCRIPTION	ITEM NUMBER	ROUNDING
								1	1	LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
								13	13	EACH	REMOVING MEDIUM TREES	201.15	-
								1	1	EACH	REMOVING LARGE TREES	201.16	-
								1	1	EACH	REMOVING MEDIUM STUMPS	201.20	-
								27950	27950	CY	COMMON EXCAVATION	203.15	19.0
	100	100						500	700	CY	SOLID ROCK EXCAVATION	203.16	50.0
	345	290							635	CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	4.7
								8000	8000	CY	SAND BORROW	203.31	47.3
								500	500	CY	GRANULAR BORROW	203.32	EST
								3800	3800	CY	TRENCH EXCAVATION OF EARTH	204.20	27.0
								250	250	CY	TRENCH EXCAVATION OF ROCK	204.21	6.7
	400	400						400	1200	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	45.0
								2000	2000	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	2.0
								38400	38400	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	37.0
								1850	1850	CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	48.1
								10800	10800	CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	13.1
								115	115	CWT	EMULSIFIED ASPHALT	404.65	2.8
	800	600						60	1460	TON	BITUMINOUS CONCRETE PAVEMENT	406.25	2.0
								1	1	LU	PRICE ADJUSTMENT ASPHALT CEMENT (N.A.B.I.)	406.50	-
								12900	12900	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	74.0
								1	1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
								1	1	LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-
								150	150	LB	REINFORCING STEEL	507.15	4.0
								20	20	LF	DRILLING AND GROUTING DOWELS	507.16	EST
								70	70	LF	RESETTING RAILING	525.11	2.0
								5	5	CY	CONCRETE, CLASS A	541.22	0.4
								2	2	CY	CONCRETE, CLASS B	541.25	0.1
								40	40	LF	12" CPEP(SL)	601.2605	-
								2600	2600	LF	18" CPEP(SL)	601.2615	20.0
								1430	1430	LF	24" CPEP(SL)	601.2620	6.0
								1125	1125	LF	30" CPEP(SL)	601.2625	6.0
								400	400	LF	36" CPEP(SL)	601.2630	13.0
								100	100	LF	RE-LAYING PIPE CULVERTS (18")	601.99	EST
								100	100	LF	RE-LAYING PIPE CULVERTS (24")	601.99	EST
								1200	1200	LF	CLEANING CULVERT PIPE IN PLACE (0-24" DIA. INCLUSIVE)	601.995	38.0
								67	67	EACH	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE	604.18	-
								12	12	EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20	-
								13	13	EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER	604.21	-
								126	126	EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS OR MANHOLES	604.40	-
								2	2	EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	-
								2	2	EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	-
								34	34	EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-
								11	11	EACH	CAST IRON GRATE WITH FRAME, TYPE D	604.47	-
								2	2	EACH	CAST IRON COVER WITH FRAME	604.55	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT
729.2	SY	NORTH MAIN STREET APPROACH
843.5	SY	WASHINGTON STREET
2053.4	SY	SOUTH MAIN STREET
210.2	SY	CHURCH STREET
575.3	SY	PROSPECT STREET
1103.0	SY	VT ROUTE 62
3207.4	SY	MAPLE AVENUE
10183.1	SY	SUMMER STREET
2903.3	SY	ELM STREET
255.5	SY	COTTAGE STREET
454.9	SY	SOUTH SEMINARY STREET
245.6	SY	GRANITE STREET
119.1	SY	CREAMERY COURT
209.9	SY	WEST STREET
122.3	SY	MERCHANT STREET
848.1	SY	DEPOT SQUARE
44.4	SY	PEARL STREET
44.8	SY	KEITH AVENUE
14210.0	SY	NORTH MAIN STREET (COBBLESTONE REMOVAL)
37.0	SY	ROUNDING
38400	**SY**	**TOTAL**
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
3391	TON	FINAL ROADWAY SURFACE COURSE TYPE IVS
1193	TON	MAINLINE BINDER COURSE TYPE IVS
4659	TON	MAINLINE BASE COURSE TYPE IIS
306	TON	SIDE STREET BINDER COURSE TYPE IVS
892	TON	SIDE STREET BASE COURSE TYPE IIS
10	TON	PARKING LOT CURB INSTALLATION TYPE IVS
15	TON	PARKING LOT CURB INSTALLATION TYPE IIS
836	TON	DETOUR SHIMMING TYPE IVS
1524	TON	WINTERIZING TYPE IVS
74	TON	ROUNDING
12900	**TON**	**TOTAL**

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: **z85b010_Quantity_Summary.xls**
PROJECT MANAGER: **G. BAKOS**
DESIGNED BY: **D. PECK / S. FOWLER**
QUANTITY SHEET #1

PLOT DATE: **3/21/2011**
DRAWN BY: **D. PECK**
CHECKED BY:
SHEET: **12** OF **339**

STATE OF VERMONT
AGENCY OF
TRANSPORTATION

QUANTITY SUMMARY SHEET

SUMMARY OF ESTIMATED QUANTITIES

FULL C.E. ITEMS	UTILITIES (NON-PARTICIPATING)	UTILITIES	EROSION CONTROL	LANDSCAPING	LANDSCAPING (NON-PARTICIPATING)	TRAINING	ROADWAY (NON-PARTICIPATING)	ROADWAY	GRAND TOTAL	UNIT	DESCRIPTION	ITEM NUMBER	ROUNDING
								100	100	HOUR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST
								120	120	HOUR	POWER BROOM RENTAL, TYPE II	608.31	EST
								100	100	HOUR	TRUCK RENTAL	608.37	EST
								1100	1100	MGAL	DUST CONTROL WITH WATER	609.10	18.4
								20	20	TON	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15	-
			85						85	CY	STONE FILL, TYPE I	613.10	4.5
			5						5	CY	STONE FILL, TYPE III	613.12	0.5
								8150	8150	LF	VERTICAL GRANITE CURB	616.21	24.4
								250	250	LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28	EST
								15	15	LF	REMOVING AND RESETTING CURB	616.40	1.5
								100	100	LF	REMOVAL OF EXISTING CURB	616.41	EST
								60	60	TON	BITUMINOUS CONCRETE SIDEWALK	618.15	0.8
								460	460	SF	DETECTABLE WARNING SURFACE	618.30	5.5
								4	4	EACH	BOLLARDS	619.14	-
								3	3	EACH	YIELDING MARKER POSTS	619.17	-
								50	50	LF	CHAIN-LINK FENCE, 4 FEET	620.11	1.0
								755	755	LF	CHAIN-LINK FENCE, 8 FEET	620.13	2.5
								18	18	LF	GATE FOR CHAIN-LINK FENCE, 8 FEET	620.17	-
								2	2	EACH	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 4 FEET	620.20	-
								7	7	EACH	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 8 FEET	620.22	-
								260	260	LF	REMOVAL OF EXISTING FENCE	620.55	1.0
								1	1	EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-
								60	60	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	2.0
								940	940	LF	TEMPORARY TRAFFIC BARRIER	621.90	5.0
								5600	5600	LF	REMOVE AND RESET TEMPORARY TRAFFIC BARRIER	621.95	37.5
	100								100	LF	RELAYING SEWER PIPE (24")	628.30	-
	1								1	LS	TRANSFER TO NEW SYSTEM, SANITARY SEWER	628.42	-
								25	25	EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-
		1							1	LS	TRANSFER TO NEW SYSTEM, WATER SYSTEM	629.42	-
								3200	3200	HR	UNIFORMED TRAFFIC OFFICERS	630.10	21.0
								7000	7000	HR	FLAGGERS	630.15	-
1									1	LS	FIELD OFFICE, ENGINEERS	631.10	-
1									1	LS	TESTING EQUIPMENT - CONCRETE	631.16	-
1									1	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	-
9000									9000	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-
						1560			1560	HR	EMPLOYEE TRAINEESHIP	634.10	-
								1	1	LS	MOBILIZATION / DEMOBILIZATION	635.11	-
								1	1	LS	TRAFFIC CONTROL	641.10	-
								1	1	LS	PUBLIC RELATIONS OFFICER	641.12	-
								8	8	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-
								4	4	EACH	PORTABLE ARROW BOARD	641.16	-
								25500	25500	LF	4 INCH WHITE LINE	646.20	11.0
								19700	19700	LF	4 INCH YELLOW LINE	646.21	40.0
								90	90	LF	8 INCH WHITE LINE	646.22	2.0

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: **z85b010_Quantity_Summary.xls**
PROJECT MANAGER: **G. BAKOS**
DESIGNED BY: **D. PECK / S. FOWLER**
QUANTITY SHEET #2

PLOT DATE: **3/21/2011**
DRAWN BY: **D. PECK**
CHECKED BY:
SHEET: **13** OF **339**

STATE OF VERMONT
AGENCY OF
TRANSPORTATION

QUANTITY SUMMARY SHEET

SUMMARY OF ESTIMATED QUANTITIES

FULL C.E. ITEMS	UTILITIES (NON-PARTICIPATING)	UTILITIES	EROSION CONTROL	LANDSCAPING	LANDSCAPING (NON-PARTICIPATING)	TRAINING	ROADWAY (NON-PARTICIPATING)	ROADWAY	GRAND TOTAL	UNIT	DESCRIPTION	ITEM NUMBER	ROUNDING
								1250	1250	LF	8 INCH YELLOW LINE	646.23	42.0
								1150	1150	LF	24 INCH STOP BAR	646.26	41.0
								265	265	EACH	LETTER OR SYMBOL	646.30	5
								2900	2900	LF	CROSSWALK MARKING	646.31	30.0
								12	12	EACH	RAILROAD CROSSING SYMBOL	646.32	-
								8900	8900	LF	TEMPORARY 4 INCH WHITE LINE	646.600	57.0
								12200	12200	LF	TEMPORARY 4 INCH YELLOW LINE	646.610	102.0
								1160	1160	LF	TEMPORARY 8 INCH WHITE LINE	646.640	12.0
								575	575	LF	TEMPORARY 8 INCH YELLOW LINE	646.650	2.0
								475	475	LF	TEMPORARY 24 INCH STOP BAR	646.680	4.0
								150	150	EACH	TEMPORARY LETTER OR SYMBOL	646.690	1.0
								615	615	LF	TEMPORARY CROSSWALK MARKING	646.700	5.0
								100	100	LF	PAINTED CURB	646.81	EST
								4000	4000	SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	EST
								1500	1500	SF	PAVEMENT MARKING MASK	646.86	5.4
								600	600	SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11	13.3
			635						635	SY	GEOTEXTILE UNDER STONE FILL	649.31	4.9
			50						50	SY	GEOTEXTILE FOR SILT FENCE	649.51	10.0
			400						400	SY	GEOTEXTILE FOR SILT FENCE, WOVEN-WIRED REINFORCED	649.515	17.5
			65						65	LB	SEED	651.15	1.1
			400						400	LB	FERTILIZER	651.18	0.4
			2.0						2	TON	AGRICULTURAL LIMESTONE	651.20	0.4
			2.0						2	TON	HAY MULCH	651.25	0.4
								135	135	CY	TOPSOIL	651.35	0.9
			1						1	LS	EPSC PLAN	652.10	-
			500						500	HR	MONITORING EPSC PLAN	652.20	20
			1						1	LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	-
			965						965	SY	TEMPORARY EROSION MATTING	653.20	4.6
			350						350	CY	VEHICLE TRACKING PAD	653.35	6.4
			65						65	EACH	INLET PROTECTION DEVICE, TYPE I	653.40	4
								775	775	LF	BARRIER FENCE	653.50	6.0
				295					295	EACH	EVERGREEN SHRUBS (JUNIPERUS CHINENSIS "SEA GREEN") (24"-30" HT.) (CONT.)	656.25	-
				3					3	EACH	DECIDUOUS TREES (MAACKIA AMURENSIS) (3/4" - 1-1/2" CAL.) (B&B)	656.30	-
				11					11	EACH	DECIDUOUS TREES (ACER RUBRUM "ARMSTRONG") (2" - 2-1/2" CAL.) (B&B)	656.30	-
				4					4	EACH	DECIDUOUS TREES (ACER FREMANII "AUTUMN BLAZE") (2" - 2-1/2" CAL.) (B&B)	656.30	-
				16					16	EACH	DECIDUOUS TREES (GLEDITSIA TRIACANTHOS INERMIS "SHADEMASTER") (2" - 2-1/2" CAL.) (B&B)	656.30	-
				2					2	EACH	DECIDUOUS TREES (QUERCUS RUBRA) (2" - 2-1/2" CAL.) (B&B)	656.30	-
				8					8	EACH	DECIDUOUS TREES (QUERCUS R X B LONG) (2" - 2-1/2" CAL.) (B&B)	656.30	-
				3					3	EACH	DECIDUOUS TREES (ULMUS AMERICANA "NEW HARMONY") (2" - 2-1/2" CAL.) (B&B)	656.30	-
				1					1	EACH	DECIDUOUS TREES (ULMUS AMERICANA "PRINCETON") (2" - 2-1/2" CAL.) (B&B)	656.30	-
				5					5	EACH	DECIDUOUS TREES (ULMUS AMERICANA "VALLEY FORGE") (2" - 2-1/2" CAL.) (B&B)	656.30	-
				2					2	EACH	DECIDUOUS TREES (ULMUS CARPINIFOLIA "ACCOLADE") (2" - 2-1/2" CAL.) (B&B)	656.30	-
				62					62	EACH	DECIDUOUS SHRUBS (CORNUS RACEMOSA) (30"-36" HT.) (CONT.)	656.35	-
				600					600	EACH	PERENNIALS (SCIRPUS ACTUS "HARD STEM BULLRUSH") (2" PLUGS) (PEAT POT)	656.41	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

Vanasse Hangen Brustlin, Inc.

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: **z85b010_Quantity_Summary.xls**
PROJECT MANAGER: **G. BAKOS**
DESIGNED BY: **D. PECK / S. FOWLER**
QUANTITY SHEET #3

PLOT DATE: **3/21/2011**
DRAWN BY: **D. PECK**
CHECKED BY:
SHEET: **14** OF **339**

STATE OF VERMONT
AGENCY OF
TRANSPORTATION

QUANTITY SUMMARY SHEET

SUMMARY OF ESTIMATED QUANTITIES

FULL C.E. ITEMS	UTILITIES (NON-PARTICIPATING)	UTILITIES	EROSION CONTROL	LANDSCAPING	LANDSCAPING (NON-PARTICIPATING)	TRAINING	ROADWAY (NON-PARTICIPATING)	ROADWAY	GRAND TOTAL	UNIT	DESCRIPTION	ITEM NUMBER	ROUNDING
				800					800	EACH	PERENNIALS (SCIRPUS VALIDUS "SOFT STEM BULLRUSH") (2" PLUGS) (PEAT POT)	656.41	
				450					450	EACH	PERENNIALS (SCIRPUS CYPERINUS "SC WOOL GRASS SEDGE") (2" PLUGS) (PEAT POT)	656.41	
				200					200	EACH	PERENNIALS (PANICUM VIRGATUM "SWITCH GRASS") (2" PLUGS) (PEAT POT)	656.41	
				100					100	MGAL	LANDSCAPE WATERING	656.65	8.2
				360					360	CY	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.80	1.2
				1					1	LS	TREE PROTECTION	656.85	-
								1157	1157	SF	TRAFFIC SIGNS, TYPE A	675.20	0.41
								628	628	SF	TRAFFIC SIGNS, TYPE B	675.21	-
								2105	2105	LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341	-
								138	138	EACH	REMOVING SIGNS (TYPE A)	675.50	-
								25	25	EACH	REMOVING SIGNS (TYPE B)	675.50	-
								18	18	EACH	ERECTING SALVAGED SIGNS	675.60	-
								4	4	EACH	OVERHEAD TRAFFIC SIGN SUPPORT, CANTILEVER	677.12	-
								1	1	EACH	OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT	677.13	-
								1	1	EACH	TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION	678.15	-
								1	1	EACH	FLASHING BEACON, AERIAL MOUNTED	678.17	-
								4900	4900	LF	ELECTRICAL CONDUIT (2") (PVC)	678.21	3.8
								315	315	LF	ELECTRICAL CONDUIT (2-1/2") (PVC)	678.21	4.7
								205	205	LF	ELECTRICAL CONDUIT (3") (PVC)	678.21	-
								650	650	LF	WIRED CONDUIT (3") (PVC)	678.23	7.0
								470	470	LF	WIRED CONDUIT (4") (PVC)	678.23	6.0
								155	155	LF	ELECTRICAL WIRING	678.24	3.0
								81	81	EACH	PULL BOX, STANDARD	678.25	-
								410	410	LF	ELECTRICAL CONDUIT SLEEVE (6") (PVC)	678.30	4.0
								320	320	LF	ELECTRICAL CONDUIT SLEEVE (10") (PVC)	678.30	2.0
								1	1	EACH	TEMPORARY TRAFFIC SIGNAL SYSTEM (NORTH MAIN ST AND MAPLE AVE / RT 62)	678.40	-
								1	1	EACH	TEMPORARY TRAFFIC SIGNAL SYSTEM (NORTH MAIN ST AND ELM ST / WASHINGTON ST)	678.40	-
								1	1	EACH	TEMPORARY TRAFFIC SIGNAL SYSTEM (MAPLE AVE AND SUMMER ST)	678.40	-
								1	1	EACH	TEMPORARY TRAFFIC SIGNAL SYSTEM (SUMMER ST AND ELM ST / WELLINGTON ST)	678.40	-
								1	1	EACH	REMOVING AND RESETTING LIGHT POLE	679.25	-
								1	1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-
				6					6	CY	SPECIAL PROVISION (CEDAR BARK MULCH)	900.608	EST
	525	100						90	715	CY	SPECIAL PROVISION (CONTROLLED DENSITY (FLOWABLE) FILL)	900.608	-
				1700					1700	CY	SPECIAL PROVISION (CU STRUCTURAL SOIL)	900.608	38.6
	80						80		160	CY	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS I)	900.608	EST
	80						80		160	CY	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS II)	900.608	EST
	80						80		160	CY	SPECIAL PROVISION (EXCAVATION OF CONTAMINATED SOILS, CLASS III)	900.608	EST
								5	5	CY	SPECIAL PROVISION (TRENCHLESS PIPE, OBSTRUCTION REMOVAL)	900.608	
					7				7	EACH	SPECIAL PROVISION (BICYCLE RACK)	900.620	-
					106				106	EACH	SPECIAL PROVISION (GRANITE POST AND CHAIN FENCE)	900.620	-
								1	1	EACH	SPECIAL PROVISION (LIGHTING CONTROL PANEL)	900.620	-
								1	1	EACH	SPECIAL PROVISION (OFF-LINE PARTICLE SEPARATOR)	900.620	-
								76	76	EACH	SPECIAL PROVISION (ORNAMENTAL STREET LIGHT)	900.620	-
								1	1	EACH	SPECIAL PROVISION (OVERFLOW CONTROL STRUCTURE)	900.620	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: **z85b010_Quantity_Summary.xls**
PROJECT MANAGER: **G. BAKOS**
DESIGNED BY: **D. PECK / S. FOWLER**
QUANTITY SHEET #4

PLOT DATE: **3/21/2011**
DRAWN BY: **D. PECK**
CHECKED BY:
SHEET: **15** OF **339**

STATE OF VERMONT
AGENCY OF
TRANSPORTATION

QUANTITY SUMMARY SHEET

SUMMARY OF ESTIMATED QUANTITIES

FULL C.E. ITEMS	UTILITIES (NON-PARTICIPATING)	UTILITIES	EROSION CONTROL	LANDSCAPING	LANDSCAPING (NON-PARTICIPATING)	TRAINING	ROADWAY (NON-PARTICIPATING)	ROADWAY	GRAND TOTAL	UNIT	DESCRIPTION	ITEM NUMBER	ROUNDING
								40	40	EACH	SPECIAL PROVISION (PARKING METER POST)	900.620	-
								1	1	EACH	SPECIAL PROVISION (PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER AND DIVERSION WEIR) (6' DIA.)	900.620	-
								1	1	EACH	SPECIAL PROVISION (REMOVE AND RESET COMMERCIAL SIGN)	900.620	-
								1	1	EACH	SPECIAL PROVISION (REMOVE AND RESET FLAG POLE)	900.620	-
								9	9	EACH	SPECIAL PROVISION (REMOVE AND RESET USPS MAILBOX)	900.620	
								3	3	EACH	SPECIAL PROVISION (REMOVE EXISTING LIGHT POLE)	900.620	-
								7	7	EACH	SPECIAL PROVISION (REMOVE EXISTING OVERHEAD SIGN ASSEMBLY, MULTI-SUPPORT)	900.620	
								2	2	EACH	SPECIAL PROVISION (REMOVING AND RESETTING GROUND/ORNAMENTAL LIGHT)	900.620	-
					10				10	EACH	SPECIAL PROVISION (STEEL BENCH WITH BACK)	900.620	-
					5				5	EACH	SPECIAL PROVISION (STEEL BENCH WITHOUT BACK)	900.620	-
					19				19	EACH	SPECIAL PROVISION (TRASH RECEPTACLE)	900.620	-
								156	156	LF	SPECIAL PROVISION (DUCT BANK) (1 CONDUIT)	900.640	-
								95	95	LF	SPECIAL PROVISION (DUCT BANK) (4 CONDUIT)	900.640	-
								80	80	LF	SPECIAL PROVISION (DUCT BANK) (6 CONDUIT)	900.640	-
								85	85	LF	SPECIAL PROVISION (ORNAMENTAL FENCE, 4 FEET)	900.640	2.0
								4	4	LF	SPECIAL PROVISION (GATE FOR ORNAMENTAL FENCE, 4 FEET)	900.640	-
								155	155	LF	SPECIAL PROVISION (VERTICAL GRANITE CURB, UNFINISHED)	900.640	5.3
	0.25	0.25						0.5	1	LS	SPECIAL PROVISION (CONSTRUCTION VIBRATION AND CRACK MONITORING)	900.645	-
								1	1	LS	SPECIAL PROVISION (FURNISH AND INSTALL STORM DRAIN PIPE)	900.645	-
								1	1	LS	SPECIAL PROVISION (MAINTENANCE OF PEDESTRIAN TRAFFIC)	900.645	-
								1	1	LS	SPECIAL PROVISION (REMOVE AND RESET EXISTING TIMBER DECK)	900.645	-
								1	1	LS	SPECIAL PROVISION (TRENCHLESS PIPE) (48")	900.645	-
								1	1	LU	SPECIAL PROVISION (INCENTIVE/DISINCENTIVE) (N.A.B.I.)	900.650	-
								1	1	LU	SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC) (N.A.B.I.)	900.650	-
								285	285	SY	SPECIAL PROVISION (COBBLESTONE PAVERS)	900.675	2.7
								860	860	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	7.3
								700	700	SY	SPECIAL PROVISION (IMPRINTED CONCRETE SIDEWALK, 5 INCH)	900.675	6.2
								475	475	SY	SPECIAL PROVISION (POND LINER, GEOMEMBRANE)	900.675	5.6
								5750	5750	SY	SPECIAL PROVISION (PORTLAND CEMENT REINFORCED CONCRETE SIDEWALK, 5 INCH)	900.675	40.6
								710	710	SY	SPECIAL PROVISION (PORTLAND CEMENT REINFORCED CONCRETE SIDEWALK, 8 INCH)	900.675	5.0
											** DUFRESNE GROUP SPECIAL PROVISIONS **		
	250								250	CY	SPECIAL PROVISION (COMMON FILL)	900.608	-
		50							50	CY	SPECIAL PROVISION (CONCRETE ENCASEMENT)	900.608	-
	254								254	CY	SPECIAL PROVISION (EXCAVATION BELOW GRADE AND REFILL)	900.608	-
	2								2	EACH	SPECIAL PROVISION (BOX CULVERT ROOF PANEL REPAIR)	900.620	-
	2	6							8	EACH	SPECIAL PROVISION (BUTTERFLY VALVE WITH VALVE BOX) (16")	900.620	-
	1								1	EACH	SPECIAL PROVISION (CLEANOUT) (6")	900.620	-
		37							37	EACH	SPECIAL PROVISION (CORE WALL AND CONNECT SERVICE) (SEWER)	900.620	-
		8							8	EACH	SPECIAL PROVISION (CORE WALL AND CONNECT SERVICE) (SPRINKLER)	900.620	-
		25							25	EACH	SPECIAL PROVISION (CORE WALL AND CONNECT SERVICE) (WATER)	900.620	-
		25							25	EACH	SPECIAL PROVISION (CORE WALL AND LEAVE STUB) (ROOF DRAIN)	900.620	-
	20								20	EACH	SPECIAL PROVISION (CORE WALL AND LEAVE STUB) (SPRINKLER)	900.620	-

1

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

REVISION	BY	DATE
1	DMP	5/9/2011

REVISION NO. 1: REMOVED ITEM 900.645 - SPECIAL PROVISION (MAINTENANCE OF EXISTING WASTEWATER FLOWS)

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: **z85b010_Quantity_Summary.xls**
PROJECT MANAGER: **G. BAKOS**
DESIGNED BY: **D. PECK / S. FOWLER**
QUANTITY SHEET #5

PLOT DATE: **5/9/2011**
DRAWN BY: **D. PECK**
CHECKED BY:
SHEET: **16** OF **339**

STATE OF VERMONT
AGENCY OF
TRANSPORTATION

QUANTITY SUMMARY SHEET

SUMMARY OF ESTIMATED QUANTITIES

FULL C.E. ITEMS	UTILITIES (NON-PARTICIPATING)	UTILITIES	EROSION CONTROL	LANDSCAPING	LANDSCAPING (NON-PARTICIPATING)	TRAINING	ROADWAY (NON-PARTICIPATING)	ROADWAY	GRAND TOTAL	UNIT	DESCRIPTION	ITEM NUMBER	ROUNDING
		41							41	EACH	SPECIAL PROVISION (CORPORATION STOP) (1-1/2")	900.620	-
		42							42	EACH	SPECIAL PROVISION (CURB STOP WITH VALVE BOX) (1-1/2")	900.620	-
		5							5	EACH	SPECIAL PROVISION (GATE VALVE WITH VALVE BOX) (4")	900.620	-
	30	20							50	EACH	SPECIAL PROVISION (GATE VALVE WITH VALVE BOX) (6")	900.620	-
	2	11							13	EACH	SPECIAL PROVISION (GATE VALVE WITH VALVE BOX) (8")	900.620	-
		3							3	EACH	SPECIAL PROVISION (GATE VALVE WITH VALVE BOX) (12")	900.620	-
		7							7	EACH	SPECIAL PROVISION (HYDRANT)	900.620	-
	2	20							22	EACH	SPECIAL PROVISION (MANUAL AIR RELEASE)	900.620	-
	50								50	EACH	SPECIAL PROVISION (PVC TEE/WYE FOR SERVICE)	900.620	-
		7							7	EACH	SPECIAL PROVISION (REMOVE HYDRANT)	900.620	-
		20							20	EACH	SPECIAL PROVISION (REMOVE SANITARY SEWER MANHOLE)	900.620	-
	4								4	EACH	SPECIAL PROVISION (SANITARY SEWER MANHOLE) (4' DIA.)	900.620	-
	8								8	EACH	SPECIAL PROVISION (SANITARY SEWER MANHOLE INSTALLED OVER EXISTING PIPE) (4' DIA.)	900.620	-
	12								12	EACH	SPECIAL PROVISION (SANITARY SEWER MANHOLE) (6' DIA.)	900.620	-
	2								2	EACH	SPECIAL PROVISION (SANITARY SEWER MANHOLE VAULT WITH CAST IRON COVER) (8' X 8')	900.620	-
	19								19	EACH	SPECIAL PROVISION (WATER METER) (5/8")	900.620	-
	12								12	EACH	SPECIAL PROVISION (WATER METER) (3/4")	900.620	-
	8								8	EACH	SPECIAL PROVISION (WATER METER) (1")	900.620	-
	9500	16000							25500	LB	SPECIAL PROVISION (DUCTILE IRON PIPE FITTING)	900.635	-
		300							300	LF	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED) (4")	900.640	-
	1200	600							1800	LF	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED) (6")	900.640	-
	100	760							860	LF	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED) (8")	900.640	-
		100							100	LF	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED) (12")	900.640	-
	360	2600							2960	LF	SPECIAL PROVISION (DUCTILE IRON PIPE, CEMENT-LINED) (16")	900.640	-
		7							7	LF	SPECIAL PROVISION (HYDRANT EXTENSION)	900.640	-
		60							60	LF	SPECIAL PROVISION (PVC ROOF DRAIN PIPE) (4")	900.640	-
		1300							1300	LF	SPECIAL PROVISION (PVC ROOF DRAIN PIPE) (6")	900.640	-
		1500							1500	LF	SPECIAL PROVISION (PVC SEWER PIPE) (6")	900.640	-
		400							400	LF	SPECIAL PROVISION (PVC SEWER PIPE) (6") (PRESSURE)	900.640	-
	600								600	LF	SPECIAL PROVISION (PVC SEWER PIPE) (8")	900.640	-
	380								380	LF	SPECIAL PROVISION (PVC SEWER PIPE) (8") (PRESSURE)	900.640	-
	370								370	LF	SPECIAL PROVISION (PVC SEWER PIPE) (12")	900.640	-
	80								80	LF	SPECIAL PROVISION (PVC SEWER PIPE) (15")	900.640	-
	730								730	LF	SPECIAL PROVISION (PVC SEWER PIPE) (24")	900.640	-
	2500								2500	LF	SPECIAL PROVISION (PVC SEWER PIPE) (30")	900.640	-
	100								100	LF	SPECIAL PROVISION (REMOVE UTILITY PIPE)	900.640	-
		1450							1450	LF	SPECIAL PROVISION (SEAMLESS COPPER WATER TUBE) (1-1/2")	900.640	-
	0.5	0.5							1	LS	SPECIAL PROVISION (REMOVE AND REPAIR BOX CULVERT)	900.645	-
	1								**1**	**LS**	**SPECIAL PROVISION (TEMPORARY BYPASS PUMPING SYSTEMS FOR WASTEWATER)**	**900.645**	-
	1								1	MFBM	SPECIAL PROVISION (PERMANENT WOOD SHEET PILING)	900.653	-
		80							80	SY	SPECIAL PROVISION (INSULATION BOARD)	900.675	-
	1								1	TON	SPECIAL PROVISION (PERMANENT STEEL SHEET PILING)	900.680	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

REVISION	BY	DATE
1	DMP	5/9/2011

REVISION NO. 1: ADDED ITEM 900.645 - SPECIAL PROVISION (TEMPORARY BYPASS PUMPING SYSTEMS FOR WASTEWATER)

Vanasse Hangen Brustlin, Inc.

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: **z85b010_Quantity_Summary.xls**
PROJECT MANAGER: **G. BAKOS**
DESIGNED BY: **D. PECK / S. FOWLER**
QUANTITY SHEET #6

PLOT DATE: **5/9/2011**
DRAWN BY: **D. PECK**
CHECKED BY:
SHEET: **17** OF **339**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SHEET

VT 62

CURB

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	REMARKS
VERTICAL GRANITE CURB				
111+30.6	111+51.5	~~22.7~~ 23.3		6.7' @ 10'R
111+56.5	111+91.4	~~34.9~~ 36.1		
112+12.9	112+35.2	~~22.3~~ 24.6		
112+60.7	113+48.3	~~89.3~~ 89.2		24.0' @ 170'R 18.1' @ 40'R
111+39.8	111+51.5		~~11.7~~ 12.4	
111+56.5	111+69.5		~~13.1~~ 14.3	
111+90.1	112+47.0		~~56.9~~ 58.1	
112+62.5	113+45.5		~~85.5~~ 86.4	30.1' @ 300'R 21.0' @ 35'R
~~111+42.5~~ 111+42.6	114+80.0		38.5	14.5' @ 40'R 24.0' @ 200'R
114+43.2	114+97.0	~~67.2~~ 57.2		23.7' @ 40'R 23.1' @ 120'R
115+07.0	116+04.1		~~97.2~~ 96.8	30.4' @ 400'R
115+27.0	115+45.2	~~18.2~~ 18.1		
115+74.0	115+92.9	~~18.9~~ 20.2		
116+25.0	116+39.1	~~15.3~~ 16.3		8.8' @ 10'R
116+47.2	117+23.4		~~76.5~~ 75.7	6.4' @ 600'R
116+47.3	117+24.8		77.9	BACK CURB
116+73.7	120+06.7	333.8		14.3' @ 15'R
117+66.9	118+39.8		72.9	
118+55.6	118+60.1		4.6	
118+90.2	120+12.9		122.7	
119+06.8	119+07.7		14.8	LOT CURB
120+45.7	122+54.3	208.4		6.2' @ 25'R
120+66.1	122+51.6		187.4	22.4' @ 15'R
122+57.6	122+69.4		16.7	12'R
122+83.5	123+54.1		70.6	15722'R
123+18.6	125+42.2	225.6		196.3' @ 15678'R 29.3'@15'R
123+67.4	124+79.7		113.0	100.3' @ 15722'R 12.7' @ 25'R
125+24.6	125+42.2		21.6	21.6' @ 20'R
125+48.2	125+79.6	33.4		11.0' @ 15678' R 22.4' @ 15'R
125+48.2	126+82.5		138.5	93.6' @ 15722'R 44.9' @ 15'R
126+01.4	126+38.1	36.6		15678'R
126+59.9	126+84.5	26.6		4.2' @ 15678'R 22.4' @ 15'R
126+88.5	126+98.5		15.7	10'R
126+90.5	127+07.0	22.1		21.2' @ 16'R
127+23.1	128+99.6		179.3	150.1' @ 15722'R 22.5' @ 15'R 6.7' @ 10'R
127+31.7	128+66.3	137.2		118.0' @ 15678'R 19.2' @ 10'R
128+89.6	128+99.6	18.3		15.9' @ 10'R
129+05.6	129+44.8	41.2		22.4' @ 15'R
129+05.6	130+10.2		108.9	22.4' @ 15' R 11.4' @ 10'R
129+58.1	130+79.8	123.7		22.4' @ 15'R
130+69.7	130+79.8		20	15.5' @ 10'R
130+85.8	13+76.6		194.9	44.8' @ 15'R
130+85.8	131+07.6	23.8		22.4' @ 15'R
131+19.5	132+42.6	125.1		10.9' @ 10'R
132+59.3	132+76.6	24.1		17.5'R
132+82.6	134+92.6	214.3		22.4' @ 15'R 11.3' @ 10'R
132+82.6	135+26.5		247.9	44.8' @ 15'R
135+11.6	135+26.5	21.8		15'R
135+32.5	136+63.1	133.6		85.6' @ 2022'R 22.4' @ 15'R
135+32.5	136+92.9		163.2	85.5' @ 1978'R 44.8'@ 15'R
136+79.6	136+92.9	16.3		15'R
136+98.9	SL 700+41.7	193		48.8' @ 15'R
136+98.9	SL 602+50.8		407.9	58.6' @ 500'R 57.7' @ 200'R 2.0' @ 20'R 22.4' @ 15'R
139+70.8	139+79.6		8.9	32.5'R
138+32.8	138+82.0		146.4	ISLAND. SEE DETAILS SHEETS
SUBTOTAL COLUMN 1:		2237.7	2713.2	

CURB

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	REMARKS
VERTICAL GRANITE CURB				
SL 10+42.8	SL 10+64.4	~~25.7~~ 29.0		40'R
SL 10+53.4	SL ~~10+86.2~~ 11+10.0		~~34.3~~ 64.4	17.6' @ 130'R 16.7' @ 35'R
SL 10+56.0	SL 12+57.2	~~205.0~~ 409.6		ISLAND. SEE DETAILS SHEETS
SL 10+56.0	SL 12+57.2		~~205.0~~	ISLAND. SEE DETAILS SHEETS
SL 20+33.5	SL 20+66.5	~~35.7~~ 34.1		12.7' @ 250'R 23.0' @ 40'R
SL 20+45.3	SL 20+82.8		~~40.8~~ 39.4	31.8' @ 50'R
SL 20+47.2	SL 20+94.6	~~49.8~~ 99.2		ISLAND. SEE DETAILS SHEETS
SL 20+47.2	SL 20+94.6		~~49.8~~	ISLAND. SEE DETAILS SHEETS
SL 30+30.1	SL 31+17.0	~~86.9~~ 85.5		0.8' @ 10'R
SL 30+28.8	SL ~~30+89.6~~ 31+13.6, RT	~~61.0~~		5.9' @ 15'R
SL ~~31+26.0~~	SL 31+42.0		~~16.0~~	
SL 31+27.0	31+42.0	~~15.0~~ 16.6		
SL 40+27.7	SL 41+26.7	100.0		16.3' @ 25'R
SL 40+34.6	SL 40+58.0		32.4	9.0' @ 15'R
SL 50+28.8	SL 51+25.0		98.9	21.8' @ 25'R
SL 50+28.0	SL 50+38.9	11.0		5.8' @ 20'R
SL 60+30.2	SL 60+37.9		7.7	
SL 60+32.4	SL 60+40.0	8.0		1.6' @ 16'R
SL 61+40.0	SL 61+65.0	25.0		
SL 70+30.2	SL 70+55.4	25.2		1.5' @ 10'R
SL 70+30.7	SL 70+55.5		24.8	
SL 80+31.9	SL 81+08.6	76.7		
SL 80+32.2	SL 81+03.8		71.5	
SL 90+31.0	SL 90+39.1	8.2		
SL 90+32.5	SL 90+35.6		3.1	
SL 200+31.5	SL 200+39.5		8	
SL 200+31.9	SL 200+39.2	7.4		
SL 300+27.6	SL 300+38.4	11		4.7' @ 10'R
SL 300+28.0	SL 300+30.9		2.9	
SL 500+53.3	SL 500+60.3		7	
SL 600+44.4	SL 600+98.2	60.6		60.6' @ 32.5'R
SL 600+44.7	SL 601+23.5		167.5	ISLAND. SEE
SL 602+54.7	SL 500+49.3		29.6	25.3' @ 20'R
SL 700+45.5	SL 700+64.5	19.0		2.1' @ 15'R
120+65.1	121+73.5		108.4	BACK CURB
120+65.1	121+73.5		121.4	BACK CURB
SL 30+50.6 RT	120+08.2	343.3		LANDSCAPE AREA CURB
SL 30+50.6 RT	120+08.2	339.3		PLAZA LOT CURB 11.8' @ 5'R
120+44.2	SL 41+31.6	316.4		LANDSCAPE AREA CURB
120+44.2	SL 41+31.6	315.4		PLAZA LOT CURB 7.9' @ 5'R
SUBTOTAL COLUMN 2:		2084.6	1090.1	
SUBTOTAL COLUMN 1:		2237.7	2713.2	
CONTRACT SUBTOTAL:		8125.6		
ROUNDING		24.4		
CONTRACT TOTAL:		8150		
SPECIAL PROVISION (VERTICAL GRANITE CURB, UNFINISHED)				
118+88.8	119+58.6		70.9	BACK CURB (14" REVEAL)
119+68.8	129+13.9		54.3	BACK CURB (14" REVEAL) (3.1' @ 2'R)
118+88.8	119+06.6		24.5	LOT CURB (14" REVEAL) (7.9' @ 5'R)
CONTRACT SUBTOTAL:			149.7	
ROUNDING:			5.3	
CONTRACT TOTAL:			155	

SIDEWALK

BEGIN STATION	END STATION	POSITION LEFT SY	POSITION RIGHT SY	REMARKS	FINAL
SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 5 INCH)					
~~111+31~~ 111+15	111+87	37.0			50.99 SY
~~111+40~~ 110+20	111+66		15.9		35.08 SY
111+95	112+43		32.4		39.76 SY
112+17	112+31	8.5			16.33 SY
112+65	SL 20+67	76.5			100.27 SY
112+68	SL 10+59		57.2		68.03 SY
SL 20+83 RT	114+90	55.6			59.49 SY
SL 10+65 LT	114+75		40.9		49.52 SY
115+34	115+39	2.9			11.59 SY
115+13	115+99		55.7		65.39 SY
115+78	115+89	6.6			12.52 SY
116+32	SL 31+42	64.5			
SL 30+83 RT	120+00	239.5			
SL 31+33	SL 31+42		4.8		
116+53	117+19		42.8		
117+71	118+34		41.0		
118+95	120+08		73.4		
120+52	SL 41+22	195.0			
120+71	122+65		148.2		
122+88	123+49		77.6		
SL 40+58 RT	125+75	265.0			
123+73	SL 51+25		135.8		
SL 50+39 LT	126+98		180.2		
126+08	126+33	20.6			
126+66	SL 61+13	106.1			
SL 61+45	SL 61+65	11.2			
127+20	SL 81+04		410.8		
SL 60+38 RT	SL 70+55	189.6			
SL 70+55 RT	129+38	85.5			
129+63	131+09	201.1			
SL 81+09 LT	SL 500+60		1614.5		
130+60	131+10	51.5		DIAGONAL PATTERN	
131+19	132+44	215.4			
132+59	134+93	274.1			
134+05	134+94	113.6		DIAGONAL PATTERN	
135+12	136+60	233.0			
136+83	SL 700+65	271.1			
139+80	SL 600+98 LT		54.2		
TOTALS:		2723.9	2985.5		
CONCTRACT SUBTOTAL:		5709.4			
ROUNDING:		40.6			
CONTRACT TOTAL:		5750			
SPECIAL PROVISION 110+80, RT					8.68 SY
(PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH)					12.84 SY
111+66	111+95		17.9		12.84 SY
111+87	112+17	18.3			14.27 SY
112+31	112+65	20.8			16.89 SY
112+43	112+68		15.0		10.77 SY
114+75	115+13		31.7		24.15 SY
114+90	115+34	27.0			20.00 SY
115+39	115+78	24.0			21.16 SY
115+89	116+32	26.6			
115+99	116+53		45.2		
SL 30+83	SL 31+33		28.2		
117+19	117+71		43.0		
118+34	118+95		50.4		
120+00	120+52	42.9			
120+08	120+71		52.6		
SL 41+22	SL 41+70	29.1			
122+65	122+88		21.8		
123+49	123+73		25.6		
125+75	126+08	31.9			
126+33	126+66	33.8			
SL 61+13	SL 61+45	30.9			
129+38	129+63	29.1			
131+09	131+19	20.9			
136+60	136+83	38.3			
SUBTOTALS:		373.6	331.4		
CONTRACT SUBTOTAL:		705.0			
ROUNDING:		5.0			
CONTRACT TOTAL:		710			

SIDEWALK

BEGIN STATION	END STATION	POSITION LEFT SY	POSITION RIGHT SY	REMARKS
SPECIAL PROVISION (COBBLESTONE PAVERS)				
SL 10+56	SL 10+70	4.3	4.3	ISLAND
SL 11+00	SL 11+52	19.9	19.9	ISLAND } 119.13 SY
SL 11+68	SL 12+57	34.3	34.3	ISLAND
116+76	116+95	18.0		PLAZA
120+66	120+79		8.6	
122+43	SL 40+47	27.8		
124+21	124+84		20.9	
125+60	125+80	6.8		
126+66	126+89	7.7		
129+57	130+04	15.7		
SL 600+45	SL 601+23		59.8	ISLAND
SUBTOTALS:		134.5	147.8	
CONCTRACT SUBTOTAL:		282.3		
ROUNDING:		2.7		
CONTRACT TOTAL:		285		

SIDEWALK

BEGIN STATION	END STATION	POSITION LEFT SY	POSITION RIGHT SY	REMARKS FINAL
SPECIAL PROVISION (IMPRINTED CONCRETE SIDEWALK, 5 INCH)				
114+24	114+33		3.4	3.99 SY
114+49	114+75		4.8	4.87 SY
115+13	115+99		15.9	16.14 SY
116+53	117+19		12.3	
116+79	120+00	58.9		
117+71	118+34		11.7	
118+95	120+08		21.0	
120+52	122+47	36.2		
120+71	121+84		21.0	
121+89	122+48		11.2	
122+61	122+65		0.8	
122+88	122+94		1.3	
122+99	123+49		9.2	
SL 40+58	SL 41+32	7.9		
123+25	123+55	5.5		
123+60	124+02	7.7		
123+73	124+10		6.9	
124+15	124+60		8.5	
124+07	124+77	12.9		
124+65	124+73		1.5	
124+82	125+39	11.0		
125+29	125+39		2.0	
125+50	125+74	4.6		
125+50	125+73		4.3	
125+78	126+61		15.4	
126+08	126+33	4.7		
126+64	126+79		2.8	
126+66	126+81	3.2		
126+94	127+04	2.2		
127+29	127+72		7.9	
127+38	127+57	3.6		
127+77	128+20		7.8	
127+62	128+38	13.9		
128+25	128+96		13.4	
128+43	128+61	3.3		
128+91	128+98	1.3		
129+07	129+38	5.7		
129+07	129+47		7.5	
129+52	130+05		9.8	
129+63	130+10	8.7		
130+15	130+76	11.7		
130+71	130+76		1.6	
130+89	131+09	3.9		
130+89	131+32		8.3	
131+19	131+32	1.9		
131+37	131+98	11.3		
131+37	131+98		11.2	
132+03	132+58		10.1	
132+03	132+37	6.3		
132+62	132+73	2.4		
132+62	132+73		2.4	
132+86	133+19		6.5	
132+86	133+19	6.5		
133+24	133+82	10.8		
133+24	133+85		11.3	
133+87	134+42	10.2		
133+90	134+42		9.8	
134+47	134+88	7.4		
134+47	135+04		10.5	
135+06	135+23		3.0	
135+14	135+23	1.9		
135+36	135+67	6.3		
135+36	135+67		6.2	
135+72	136+14	7.8		
135+72	136+20		8.7	
136+19	136+60	7.0		
136+25	136+91		12.1	
136+83	136+91	1.5		
137+00	137+31		5.8	
137+03	137+32	5.9		
137+36	137+90		10.3	
137+37	138+08	12.8		
137+93	138+37		9.3	
138+13	138+83	12.8		
SL 500+29	SL 500+42		2.9	
SL 600+36	SL 600+86		12.9	
SL 600+88	SL 601+39		11.3	
SL 601+44	SL 602+48		19.5	
SUBTOTALS:		319.7	374.1	
CONTRACT SUBTOTAL:		693.8		
ROUNDING:		6.2		
CONTRACT TOTAL:		700		

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: **85B010_C2_ItemDetailSheet.xl**
PROJECT LEADER: **G. BAKOS**
DESIGNED BY: **F.SANTOS**
ITEM DETAIL SHEET

PLOT DATE: **3/9/2011**
DRAWN BY: **D. PECK**
CHECKED BY: **D. PECK**
SHEET **18** OF **339**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET #1

LAYOUT CODE (#)	STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS				PIPE ELBOW	ES	DMH	CB	DI	PROCDI	DEPTH DI / DMH	SPECIAL PROVISION (FLOWABLE FILL)	REINF STEEL	GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
				NO. DEG.	INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	PCCSP TH	SPECIAL PROVISION (TRENCHLESSS PIPE)	CPEP SL	PVC	NO. DEG.	EA	EA	EA	EA		FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	
1	111+31		LT		DI							18	8									X		5			D		5.73 ~~10~~	~~3.2~~ 2.67				~~5~~ 1.79						
												24	6																											
2	111+64		RT		DI																	X		6			D		~~8.1~~ 11	~~3.5~~ 2.96				~~5~~ 1.79						REMOVE EXIST DI. NEW RCDI. CONNECT EXISTING 24" & 6" PIPES.
3	111+66	111+31	LT		DI	DI						18	32			X						X		5			D		14.53 ~~20~~					~~13~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
4	113+37	113+64	RT		DI	MH						18	~~23~~	24		X						X		7			D		13.53 ~~4~~					~~2~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
5	113+38	113+67	LT		DI	MH						18	~~25~~	26		X						X		7			D		18.1 ~~7~~					~~3~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
6	113+64	111+64	RT		MH	DI						24	~~105~~	196		X								7					12.56 ~~102~~	12.56				~~80~~ 0						NEW 24" CPEP(SL) (OVERFLOW FOR DMH #7).
7	113+64	SL 11+02	RT		MH	CB						36	~~61~~	62		X					X			7			MH COVER		68.46 ~~35~~	5.33				~~15~~ 3.01						REMOVE EXIST JCT BOX & 24" RCP. NEW 36" CPEP(SL) WITH CONCRETE DMH (6').
8	113+67	113+64	LT-RT		MH	MH						30	~~52~~	56		X					X			7			MH COVER		39.8 ~~20~~	8.0				~~16~~ 3.0						REMOVE EXIST JCT BOX & 2-18" RCP'S. NEW 30" CPEP(SL) WITH CONC. DMH (6'). CONNECT EXIST 18" RCP.
9	114+78	113+64	RT		CB	MH						30	~~110~~	112		X							X	8			2-D		70.8 ~~52~~	~~4.5~~ 3.16				~~20~~ 3.0						REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST 6" VCT.
10	114+80	113+67	LT		CB	MH						30	~~100~~	108		X							X	8			2-D		69.5 ~~62~~	~~4.1~~ 3.9				~~20~~ 3.0						REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST 4" & 6" PIPES.
11	115+69	114+78	RT		CB	CB						30	88			X							X	8			2-D		54.4 ~~43~~	~~4.2~~ 3.6				~~23~~ 3.0						REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST DRAIN PIPE.
												18	20	CONNECTED DI@ BURGER KING TO CB#11																										
12	115+84	114+80	LT		CB	CB						30	~~101~~	102		X							X	7			2-D		26.7 ~~44~~	~~4.2~~ 3.9				~~22~~ 3.0						REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB.
13	116+42	115+84	LT		MH	CB						30	~~53~~	52		X					X			6			MH COVER		3.8 ~~27~~					~~12~~ 0						NEW 30" CPEP(SL) WITH CONCRETE DMH (6').
14	116+80	115+69	RT		CB	CB						30	~~107~~	108		X							X	8			2-D		68.2 ~~49~~	3.6				~~25~~ 3.0						REMOVE EXIST DI & 24" RCP. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST DRAIN PIPES.
15	117+01	116+42	LT		CB	MH						30	54			X							X	7			2-D		36.7 ~~27~~	2.37				~~12~~ 3.0						NEW 30" CPEP(SL) WITH CONCRETE CB.
16	117+23	116+80	RT		CB	CB						30	40			X							X	7			2-D		37.24 ~~23~~	~~2.3~~ 2.37				~~12~~ 3.0						REMOVE EXIST DI. NEW 30" CPEP(SL) WITH CONCRETE CB. CONNECT EXIST DRAIN PIPE.
17	117+17	117+01	LT		DI	CB						18	~~18~~	12		X						X		6.0			D		0 ~~21~~	10.0				~~15~~ 0						NEW 18" CPEP(SL) WITH RCDI.
18	117+70	117+23	RT		CB	CB						30	~~44~~	46		X							X	7			2-D		37.25 ~~24~~					~~12~~ 3.0						NEW 30" CPEP(SL) WITH CONCRETE CB.
19	117+86	117+01	LT		CB	CB						30	~~81~~	80		X							X	7			2-D		69.22 ~~33~~	0				~~15~~ 3.0						NEW 30" CPEP(SL) WITH CONCRETE CB. • REMOVED EXISTING 4'X4'X4' CB
20	117+63	117+70	RT		DI	DI						18	~~13~~	16		X													10.1 ~~0~~					~~7~~ 0						NEW 18" CPEP(SL). CONNECT TO EXIST DI.
21	117+86	117+86	LT		DI	CB						18	~~10~~	20		X						X		7.0			D		0 ~~16~~	13.5				~~9~~ 0						NEW 18" CPEP(SL) WITH RCDI. REMOVED EXISTING TELEPHONE MH
22	119+25	117+70	RT		DI	CB						24	~~151~~	152		X						X		7			D		71.04 ~~53~~	4.74				~~34~~ 1.79						REMOVE 2-EXIST DI'S. NEW 24" CPEP(SL) WITH RCDI.
23	119+25	117+86	LT		CB	CB						30	~~135~~	136		X							X	7			2-D		64.78 ~~48~~	2.4				~~20~~ 3.0						NEW 30" CPEP(SL) WITH CONCRETE CB.
24	119+25	119+25	LT		DI	CB						18	10			X						X		7.0			D		16.43 ~~13~~					~~8~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
25	120+73	119+25	RT		DI	DI						24	~~145~~	144		X						X		7			D		68.76 ~~50~~	~~5.0~~ 4.7				~~20~~ 1.79						REMOVE 2-EXIST DI'S. NEW 24" CPEP(SL) WITH RCDI.
26	120+74	119+25	LT		CB	CB						30	~~146~~	146		X							X	7			2-D		58.79 ~~40~~					~~10~~ 3.0						NEW 30" CPEP(SL) WITH CONCRETE CB.
27	121+70	120+74	LT		DI	CB						24	~~83~~	94		X						X		7			D		37.38 ~~32~~					~~17~~ 1.78						NEW 24 CPEP(SL) WITH RCDI.
28	121+75	120+73	RT		DI	DI						24	~~96~~	102		X						X		7			D		49.83 ~~37~~	~~2.5~~ 2.4				~~21~~ 1.79						REMOVE EXIST DI. NEW 24" CPEP(SL) WITH RCDI.
29	120+75	120+74	LT		DI	CB						18	12			X						X		7.0			D		25.27 ~~15~~					9						NEW 18" CPEP(SL) WITH RCDI / REMOVE EXIST 8" VCT, CONNECTED EXISTING STRUCTURE TO DS#29 USING 5 LF OF 8" SDR 35
30	120+75		LT		MH													~~MH COVER~~	ELIMINATED																					~~REMOVE DI GRATE AND FRAME. NEW DMH COVER AND FRAME.~~ ELIMINATED
31	121+70	121+70	LT		DI	CB						18	~~13~~	14		X						X		7.0			D		41.00 ~~18~~	3.89				~~11~~ 1.79						NEW 18" CPEP(SL) WITH RCDI, TRENCH ROCK - REMOVED BURIED CONCRETE WALL
32	122+30	122+45	LT		DI	CB						18	~~18~~	20		X						X		7.0			D		33.84 ~~21~~	7.56				~~16~~ 1.79						NEW 18" CPEP(SL) WITH RCDI, TRENCH ROCK - REMOVED BURIED STONE FOUNDATION
33	122+45	121+70	LT		DI	DI						24	~~71~~	72		X						X		7			D		33.32 ~~28~~					~~16~~ 1.78						REMOVE EXIST 12" RCP. NEW 24" CPEP(SL) WITH RCDI.
34	122+71	121+75	RT		DI	DI						24	~~95~~	94		X						X		7			D		41.59 ~~36~~					~~20~~ 1.79						NEW 24" CPEP(SL) WITH RCDI.
35	122+95	122+45	LT		MH	DI						24	~~46~~	48		X					X			8			MH COVER		25.74 ~~19~~	4.5				~~10~~ 3.0						REMOVE EXIST DMH & 12" RCP. NEW 24" CPEP(SL) WITH CONCRETE DMH (8'). CONNECT EXIST 10" VCT.
36	123+28	122+95	LT		DI	MH						18	30			X						X		7			D		19.07 ~~12~~	~~5.4~~ 0				~~7~~ 1.79						REMOVAL OF EXISTING DMH WAS DOCUMENTED BY DUFRESNS GROUP ON 4/30/12 REMOVE EXIST DMH. NEW 18" CPEP(SL) WITH RCDI.
37	123+76	122+71	RT		DI	DI						24	102			X						X		7			D		43.57 ~~36~~	2.37				~~20~~ 1.79						NEW 24" CPEP(SL) WITH RCDI CB.
38	124+65	123+76	RT		DI	DI						24	86			X						X		7			D		38.03 ~~32~~	0				~~10~~ 1.79						NEW 24" CPEP(SL) WITH RCDI.
39	125+35	SL 50+35	RT-LT		MH	DI						18	~~12~~	14		X					X			7			MH COVER		7.86 ~~14~~	~~3.7~~ 0				~~9~~ 1.79						REMOVE EXIST DMH & 10" VCT. NEW 18" CPEP(SL) WITH DMH (4'). CONNECT EXIST 6" CIP.
40	125+70	125+70	LT-RT		DI	DI						18	~~30~~	40		X						X		6			D		16.05 ~~9~~					~~5~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
41	125+70	125+35	RT		DI	MH						18	32			X						X		6			D		13.52 ~~10~~					~~13~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
42	127+00	125+70	RT		DI	DI						18	~~127~~	128		X						X		7			D		33.26 ~~28~~					~~16~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
43	128+55	128+89	LT		DI	MH						18	~~30~~	31		X						X		7.0			D		15.86 ~~14~~					~~8~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
44	128+78	129+90	RT		DI	DI						18	~~108~~	106		X						X		7.0			D		35.10 ~~26~~					~~16~~ 1.79						NEW 18" CPEP(SL) WITH RCDI.
																					5	11	25					47												TYPE D GRATES
																												6												DRAIN MANHOLE COVERS
DRAINAGE DETAIL SHEET #1 SUBTOTAL:																													1538.22 ~~1248~~	~~47.1~~ 101.97				~~700~~ 84.95						
												18	~~551~~ 595			X																								
												24	~~1082~~ 1096			X																								
												30	~~1119~~ 1128			X																								
												36	~~61~~ 62			X																								

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER **FEGC F 026-1(34) C/2**

FILE NAME: z85b010dds.xls | PLOT DATE: **3/21/2011**
PROJECT LEADER: G. BAKOS | DRAWN BY: D. PECK
DESIGNED BY: D. PECK | CHECKED BY:
DRAINAGE DETAIL SHEET **#1** | SHEET **19** OF **339**

VHB Vanasse Hangen Brustlin, Inc.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET #2

LAYOUT CODE (#)	STATION	STATION	POS.	ASKEW NO. DEG.	INLET/OUTLET TYPE INLET	OUTLET	DITCH IN	DITCH OUT	PIPE ARCH SPAN IN	PIPE ARCH RISE IN	PIPE ARCH L FT	PIPE D IN	PIPE L FT	ALLOWABLE OPTIONS PCCSP TH	ALLOWABLE OPTIONS SPECIAL PROVISION (TRENCHLESSS PIPE)	ALLOWABLE OPTIONS CPEP SL	ALLOWABLE OPTIONS PVC	PIPE ELBOW NO. DEG.	ES EA	DMH EA	CB EA	DI EA	FRCD	DEPTH DI / DMH FT	SPECIAL PROVISION (FLOWABLE FILL) CY	REINF STEEL LBS	GRATE TYPE	CHAN ELEV EA	CRM CY	TRENCH EXCAVATION EARTH CY	TRENCH EXCAVATION ROCK CY	COMM EXC CY	UNC CHAN EXC CY	STRUCT EXCAV CY	GRAN BKFLL STRUCT CY	GRAN BORR CY	EROS MATT SY	STONE FILL CY	STONE FILL TYPE	MARKER POSTS LT EA	MARKER POSTS RT EA	REMARKS
45	128+89	129+90	LT		MH	DI						18	98			X				X				6.0			MH COVER		32.77	27	4.3	2.37			17	1.79						REMOVE EXIST DI, DMH, & 12" RCP. NEW 18" CPEP(SL) WITH DMH (4').
46	129+90	130+56	LT		DI	BOX						18	60			X						X		7.0			D		24.09	10	3.0	2.37			12	1.79						REMOVE EXIST DI & 12" RCP. NEW 18" CPEP(SL) WITH RCDI. CORE PIPE INTO EXIST. 6X8 BOX CULVERT.
47	129+90	SL 80+36	RT		DI	DI						18	23 26			X						X		7.0			D		27.29	10	9.30+ STRUCTURE 27.29	1.99=			11	1.79						NEW 18" CPEP(SL) WITH RCDI.
48	NOT USED																																								
																													0	0				0						
49	131+06	130+56	LT		DI	BOX						18	44 74			X						X		7.0			D		26.18	14	0.0	2.37			0	1.79						REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI. CORE PIPE INTO EXIST. 6X6 BOX CULVERT.
50	131+06	SL 80+33	RT-LT		DI	DI						18	36 46			X						X		7.0			D		21.42	20					23	1.79						NEW 18" CPEP(SL) WITH RCDI.
51	132+32	131+06	LT		DI	DI						18	122 116			X						X		7.0			D		36.10	33	2.4	2.37			22	1.79						REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI.
52	133+04	131+06	RT		DI	DI						18	194 204			X						X		7.0			D		43.33	42	3.6	5.19			27	1.79						REMOVE 2-EXIST DI'S. NEW 18" CPEP(SL) WITH RCDI.
53	133+05	132+32	LT		DI	DI						18	68 70			X						X		7.0			D		24.31	10	1.1	2.37			12	1.79						REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI.
54	134+00	134+82	LT		DI	DI						18	78 80			X						X		7.0			D		30.04	28			SEE FLAT FILES		18	1.79						NEW 18" CPEP(SL) WITH RCDI.
55	134+00	135+54	RT		DI	DI						18	150 154			X						X		7.0			D		60.76	53	1.3	2.37			40	1.79						REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI.
56	134+82	135+54	LT		DI	DI						24	66 70			X						X		8.0			D		38.61	38	4.7	2.37			26	1.79						REMOVE EXIST DI. NEW 24" CPEP(SL) RCDI.
57	135+54	135+54	LT-RT		DI	DI						24	36 40			X						X		9.0			D		29.14	20					10	1.79						NEW 24" CPEP(SL) WITH RCDI.
58	135+54	136+14	RT		DI	DI						24	55 62			X						X		9.0			D		52.45	40					37	1.79						NEW 24" CPEP(SL) WITH RCDI.
59R	136+14	~~136+10~~ 136+71	RT		DI	MH						24	90 56			X						X		12.0			D		68.46						1.79							NEW 24" CPEP(SL) WITH RCDI. SEE SPECIAL PROVISION (FURNISH AND INSTALL STORM DRAIN PIPE) NOTDONE, REDESIGN
~~60~~	~~136+19~~		~~RT~~		~~MH~~															~~X~~				~~12.0~~		MH COVER			~~25~~					~~21~~							~~NEW 8'x8' CONCRETE DMH. CONNECT TO EXIST 24" RCP. REDESIGN, NOT CONSTRUCTED.~~
~~61~~	~~138+71~~	~~136+14~~	~~RT~~		~~MH~~	~~DI~~						~~24~~	~~51~~			~~X~~				~~X~~				~~10.0~~		MH COVER			~~53~~					42							~~NEW 24" CPEP(SL) WITH DMH (4').~~ REVISED, NEVER WAS INSTALLED PER PLAN.
61R	136+71	137+20	RT		MH	DI						24	48			X				X									61.82						1.79							REMOVED 18"CPEP FROM DRAINAGE RUN *65 AND REPLACED WITH 24" CPEP PITCHEC TOWARD DS *65R
62	136+71	136+71	LT-RT		MH	MH						18	36 40			X				X				9.0			MH COVER		51.40	33	2.37				25	1.79						NEW 18" CPEP(SL) WITH DMH (4'). CONNECT EXIST DRAIN PIPE.
63	137+67	137+20	RT		DI	DI						18	44	← RE-LAID AS 63R BELOW		X						X		9.0			D		32.40	20					20	1.79						NEW 18" CPEP(SL) WITH RCDI.
63R	137+67	137+20	RT		DI	DI						18	44	RELAY PIPE →															25.10													RELAYED 44 LF OF 18"CPEP PREVIOUSLY INSTALLED IN DRAINAGE RUN *63
64	137+21	136+71	LT		DI	MH						18	45 46			X						X		9.0			D		31.34	24	0.5	2.37			17	1.79						REMOVE EXIST DI & 10" RCP. NEW 18" CPEP(SL) WITH RCDI.
65	137+20	136+71	RT		DI	MH						18	45 48			X						X		9.0			D		36.19	24	6.0	2.37			16	1.79						REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI. ~~PLUG & ABANDON EXIST 24" RCP.~~
65R	137+20		RT		DI	EXISTING DI						24				X													18.38		2.37				1.79							REDESIGNED DS *65R, REMOVE OLD DS *65, CONNECT TO EXISTING 24" RCP
66	138+33	137+67	RT		DI	DI						18	70 64			X						X		8.0			D		36.32	27					18	1.79						NEW 18" CPEP(SL) WITH RCDI.
67	~~138+65~~ 138+55	137+21	LT		DI	DI						18	138 128			X						X		8.0			D		90.59	62	5.48 * 4.63		SEE FLAT FILES		39	1.79						REMOVE EXIST 10" RCP. NEW 18" CPEP(SL) WITH RCDI.
68	139+75	139+47	RT		DI	DI						18	38 28			X						X		6			D		41.89	45			SEE FLAT FILES		37	1.79						NEW 18" CPEP(SL) WITH RCDI.
68R												12	6	TIED EXISTING STATUTE DRAIN INTO DI *68																											
69	SL 11+02	SL 11+02	RT		DI	CB						18	8 12			X						X		8			D		28.74	20	4.1	8.0	SEE FLAT FILES		10	1.79						NEW 18" CPEP(SL) WITH RCDI. CONNECT TO EXIST. 15" RCP REMOVE 2 EXIST. DI'S
70	SL 11+02	SL 12+42	RT		CB	MH						36	136			X					X			8			D		317.52	81	4.3	2.37	SEE SHEET II		29	3.01						REMOVE EXIST DI. NEW 36" CPEP(SL) WITH CONCRETE CB
71	SL 12+42	SL 13+11	RT		MH	MH						36	48 *	TRENCHLESS PIPE					X					8			MH COVER		36.90	25			SEE SHEET II		14	0						SPECIAL PROVISION (TRENCHLESS PIPE) (48"). 36" HDPE PIPE WITH 48" STEEL CASING. NEW DMH (6')
72	SL 12+88	SL 13+11	RT		DI	MH						18	36 30			X			NOT USED			X	REHABBED 13 DI *72				D		56.68	48	8.3	0	SEE FLAT FILES		36	0						48' 40' REHAB CLASS I ~~REMOVE~~ EXIST. DI. NEW 18" CPEP(SL) ~~WITH RCDI. CONNECT EXIST. 15" RCP.~~
73	SL 13+11	SL 14+28	RT		MH	SP MH						36	90 60			X				X				13			MH COVER		147.84	155			SEE SHEET II		118	3.01						NEW 36" CPEP(SL) WITH CONCRETE DMH (6') / REMOVE EXIST DI & 80 LF EXIST 30" RCP
74	SL 14+28	SL 14+41	RT		SP MH	OPS						12	13 10			X								7			MH COVER		40.52	24			SEE FLAT FILES		13	3.01			1			NEW 12" CPEP(SL) WITH MODIFIED DMH / REMOVE 9 LF EXIST 30" RCP / SEE DRAINAGE DETAILS SHEET
75	SL 14+41	SL 14+60	RT		OPS	OUT						12	20 24			X													13.53	10			SEE FLAT FILES		15	10.48		2.0	III	2		NEW 12" CPEP(SL) / CONSTRUCT OFF-LINE PARTICLE SEPARATOR / SEE DRAINAGE DETAILS SHEET
76	SL 14+85		RT																															83.85	80.5	I				CONSTRUCT WET POND / SEE PLANS FOR POND LAYOUT AND GRADING SPHM EXCAVATION INCLUDED IN DRAINAGE RUN *74
77	SL 14+25	SL 15+28	RT		SP MH	OUT						36	100			X													167.78	127			SEE SHEET II		100	0		4.5	III			NEW 36" CPEP(SL) SECONDARY OUTLET / SEE DRAINAGE DETAILS SHEET
78	SL 15+25	SL 15+59	RT		OCS	OUT						18	33 34			X													61.42	10			SEE FLAT FILES		16	10.68		1.0	III			NEW 18" CPEP(SL) / CONSTRUCT OVERFLOW CONTROL STRUCTURE / SEE DRAINAGE DETAILS SHEET
79	SL 30+46	116+42	LT		DI	MH						18	22			X						X		6			D		36.04	22	2.3	0	SEE FLAT FILES		15	0						REMOVE EXIST DI & 6" VCT. NEW 18" CPEP(SL) WITH RCDI. CONNECT EXIST 6" PVC.
80	SL 30+49	SL 30+46	RT-LT		DI	DI						18	24 22			X						X		6			D		24.72	23	2.6	2.4	SEE FLAT FILES		17	0						REMOVE EXIST DI & 12" ACCGMP. NEW 18" CPEP(SL) AND RCDI. CONNECT EXIST. 6" CMP.
81	SL 40+33	122+95	LT		DI	MH						18	22 26			X						X		5			D		41.21	13	2.7	2.37			8	1.78						REMOVE EXIST DI & 8" VCT. NEW 18" CPEP(SL) WITH RCDI
82	SL 40+64	122+95	RT-LT		DI	MH						18	44 46			X						X		5			D		53.26	31	2.9	2.37			23	1.78						REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI. CONNECT EXIST CIP.
												18	12	CONNECT KEY BANK DITO DI *82																											
83	SL 50+35	124+65	RT		DI	DI						18	25 28			X						X		6			D		36.22	17					11	1.79						NEW 18" CPEP(SL) WITH RCDI.
84	SL 50+35	SL 50+35	LT-RT		DI	DI						18	28			X						X		6			D		12.46	22	2.7	0			15	1.79						REMOVE EXIST 6" CIP & 2-DI'S. NEW 18" CPEP(SL) WITH RCDI. CONNECT EXIST 10" VCT & 8" CIP.
												12	12	TIED EXISTING 10" VCT INTO DI *84 USING 12"CPEP																											
85	SL 60+38	127+00	LT-RT		DI	DI						18	54			X						X		6.0			D		17.48	21	2.37				12	1.79						REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI.
86	SL 60+38	SL 60+38	RT-LT		DI	DI						18	17 18			X						X		6.0			D		30.15	15					0	1.79						NEW 18" CPEP(SL) WITH RCDI (ECCENTRIC).
87	SL 70+35	128+55	LT		DI	DI						18	16 18			X						X		5.0			D		26.91	16	4.1	2.37			11	1.79						REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI.
88	SL 70+46	128+89	RT-LT		DI	MH						18	22			X						X		5.0			D		36.89	10	3.9				12	1.79						REMOVE EXIST DI & 12" VCT. NEW 18" CPEP(SL) WITH RCDI (ECCENTRIC). CONNECT EXIST 10" VCT.
												12	44	REPAIRED EXISTING DRAINAGE PIPE INTO DI *88								X	SEE CALC. FOLDER, 604.18, LINE 0175, DR 12.12/12																		
																			~~6~~	1	~~31~~					32															TYPE D GRATES
																			5		32					7															DRAIN MANHOLE COVERS
												12	~~33~~	96		X													~~1123~~	~~73.7~~				~~994~~			4.5	III	3		
												18	~~1630~~	1698		X													2255.97	64.62				87.45			~~30.5~~	I			
DRAINAGE DETAIL SHEET #2 SUBTOTAL:												24	302	276		X																					83.85				
												36	326	276		X																									
												48	48		X																										

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER **FEGC F 026-1(34) C/2**

FILE NAME: z85b010dds.xls | PLOT DATE: **3/21/2011**
PROJECT LEADER: G. BAKOS | DRAWN BY: D. PECK
DESIGNED BY: D. PECK | CHECKED BY:
DRAINAGE DETAIL SHEET #2 | SHEET **20** OF **339**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET #3

LAYOUT CODE (#)	STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS			PIPE ELBOW	ES	DMH	CB	DI	PRCCDI	DEPTH DI / DMH	SPECIAL PROVISION (FLOWABLE FILL)	REINF STEEL	GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
					INLET	OUTLET	IN	OUT	SPAN	RISE	L	D	L	PCCSP	SPECIAL PROVISION (TRENCHLESSS PIPE)	CPEP	PVC													EARTH	ROCK									
				NO. DEG.					IN	IN	FT	IN	FT	TH		SL		NO. DEG.	EA	EA	EA	EA		FT	CY	LBS	TYPE	EA	CY	CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	
89	SL 80+35	SL 80+36	LT		DI	BOX						18	~~18~~ 28			X							7.0			D		15.35	~~10~~				~~12~~	I.79					NEW 18" CPEP(SL) WITH RCDI. CORE PIPE INTO EXIST. 6X6 BOX CULVERT.
90	SL 11+02	SL 12+88	RT		DI	DI						0	0																										PLUG AND ABANDON EXIST. 30" DRAIN PIPE
91	SL 80+36	SL 80+36	RT-LT		DI	BOX						18	~~20~~ 18			X					X		7.0			D		11.36	~~24~~				~~17~~	I.79					NEW 18" CPEP(SL) WITH RCDI. CORE PIPE INTO EXIST. 6X6 BOX CULVERT.
92	SL 90+35	132+32	LT		DI	DI						18	~~16~~ 28			X					X		6.0			D		23.83	~~17~~	~~3.0~~	0		~~11~~	C					REMOVE EXIST DI. NEW 18" CPEP(SL) ~~WITH RCDI.~~ CONNECT EXIST 8" VCT.
93	SL 200+38	134+82	LT		DI	DI						18	~~16~~ 18			X					X		8.0			D		38.86	~~21~~	~~4.0~~	0	SEE FLAT FILES	~~14~~	I.79					REMOVE EXIST DI. NEW 18" CPEP(SL) WITH RCDI. CONNECT EXIST 8" VCT.
~~94~~	SL 200+38	SL 200+38	RT-LT		DI	DI						18	~~13~~ 18			X					X		7.0			D		30.14	~~15~~	~~3.0~~	0	SEE FLAT FILES	~~9~~	I.79					REMOVE EXIST DI & 8" VCT. NEW 18" CPEP(SL) WITH RCDI (ECCENTRIC).
95	SL 600+73	138+33	RT		DI	DI						18	~~02~~ 67			X					X		8.0			D		74.53	~~31~~				~~21~~	I.79					NEW 18" CPEP(SL) WITH RCDI.
96	SL 800+65	SL ~~603+73~~ 138+50	LT-RT		DI	DI						18	~~77~~ 122			X					X		8.0			D		130.11	~~76~~	SEE FLAT FILES			~~60~~	I.79					NEW 18" CPEP(SL) WITH RCDI.
97	120+80	120+73	RT		DI	DI						18	~~10~~ 14			X					X		7.0			D		34.14	~~15~~				~~7~~	I.79					NEW 18" CPEP(SL) WITH RCDI.
98	121+72	121+75	RT		DI	DI						18	~~10~~ 12			X					X		7.0			D		28.35	~~15~~				~~7~~	I.79					NEW 18" CPEP(SL) WITH RCDI.
~~99~~	~~SL 700+49~~	~~SL 700+49~~	~~LT-RT~~		~~DI~~	~~DI~~						~~18~~	~~42~~			~~X~~					~~X~~		~~8.0~~			~~D~~			~~37~~				24						~~NEW 18" CPEP(SL) WITH RCDI.~~ DELETED
100	SL 700+49	139+58	RT-LT		DI	MH						~~12~~ 18	~~53~~ 60			X												33.24	~~54~~	SEE FLAT FILES			~~33~~	C					REHAB EXIST. DI. WITH NEW 18" CPEP(SL) CONNECTIONS (99 & 100)
101	139+75	139+58	LT		DI	MH						18	~~22~~ 26			X					X		7.0			D		25.25	~~26~~	SEE FLAT FILES			~~16~~	I.79					NEW 18" CPEP(SL) WITH RCDI.
102	139+58	139+75	LT-RT		MH	DI						18	32			X				X			8.0			MH COVER		42.58	~~40~~	SEE FLAT FILES			~~26~~	I.79					NEW 18" CPEP(SL) WITH DMH.
~~103~~	~~136+17~~	~~136+19~~	~~RT~~		~~DMH~~	~~MH~~						~~12~~ 18	6																										
												~~24~~	~~40~~			~~X~~				~~X~~			~~12.0~~			~~MH COVER~~			~~58~~				30					~~NEW 24" CPEP(SL) WITH DMH.~~ REDESIGN, NOT CONSTRUCTED
																												MOVED TO #68A 4.44	SEE DAILY REPORT MARK HOUGHWOUT, 9/27-28/2012									
																																	IO CY					ONE LOAD OF GRANULAR BACKFILL FOR STRUCTURES USED ON ROAD TO STAGGING AREA. IO CY APPROXIMATED IN THE DUMP TRUCK.
																			~~2~~ 1		~~11~~ 9						11 2												TYPE D GRATES DRAIN MANHOLE COVERS
DRAINAGE DETAIL SHEET #3 SUBTOTAL:												18 24	399 40			X X													~~448~~ 489.02	~~11.8~~ 0				~~304~~ 27.9						

PROJECT NAME:	**BARRE CITY**
PROJECT NUMBER:	**FEGC F 026-1(34) C/2**
FILE NAME: z85b010dds.xls	PLOT DATE: **3/21/2011**
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
DRAINAGE DETAIL SHEET #3	SHEET **21** OF **339**

VHB Vanasse Hangen Brustlin, Inc.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET # 4

LAYOUT CODE (#)	STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS				PIPE ELBOW	ES	DMH	CB	DI	PRCCDI	DEPTH DI / DMH	SPECIAL PROVISION (FLOWABLE FILL)	REINF STEEL	GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
				NO. DEG.	INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	PCCSP TH	SPECIAL PROVISION (TRENCHLESSS PIPE)	CPEP SL	PVC	NO. DEG.	EA	EA	EA	EA		FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	
R1	112+22	113+00	LT																					5.0 0																PLUG & ABANDON EXIST 18" ACCGMP. FILL WITH SPECIAL PROVISION (FLOWABLE FILL). REMOVE EXIST DI.
R2	113+00	113+67	LT																										7.4 9											REMOVED PIPE, NO FLOWABLE FILL USED. REMOVE 65 LF EXIST 18" ACCGMP.
R3	111+64	113+00	RT																					15.1 0					6.7											PLUG & ABANDON EXIST 24" RCP. FILL WITH SPECIAL PROVISION (FLOWABLE FILL).
R4	113+00	116+80	RT																										55.9 81											REMOVE 378 LF EXIST 24" RCP.
R5	115+84	116+90	LT																										0 9	3.6 0										REMOVE 103 LF EXIST 24" RCP. REMOVE EXIST DI.
R6	120+75	120+93	LT																										0 15	3.1 0										R5 WAS NOT PAID DIRECTLY, IT WAS REMOVED DURING EXCAVATION FOR DRAIN RUNS #13&15 REMOVE 15 LF EXIST 6" PIPE / REMOVE EXIST DI.
R7	116+90	116+97	LT																										0 3	3.7 0										PIPE REMOVED DURING TRENCHING FOR DRAINAGE RUN #29, EXISTING DI DID NOT EXIST. REMOVE 4 LF EXIST 12" RCP. REMOVE EXIST DMH.
R8	116+97	117+91	LT																										6 15	3.1 0										REMOVE 90 LF EXIST 12" RCP. REMOVE EXIST DI.
R9	116+80	117+23	RT																										0 3											REMOVE 40 LF EXIST 24" RCP.
R10	117+23	117+87	RT																										40.7 9	2.37										REMOVE 61 LF EXIST 24" RCP.
R11	117+63	117+87	RT																										11 7											REMOVE 24 LF EXIST DRAIN PIPE.
R12	117+87	118+59	RT																					8.0 0					36											PLUG & ABANDON EXIST 24" RCP. FILL WITH SPECIAL PROVISION (FLOWABLE FILL). REMOVED PIPE
R13	117+91	118+84	LT																										4.94 14	4.2 0										REMOVE 89 LF EXIST 12" RCP. REMOVE EXIST DI.
R14	118+59	119+40	RT																					9.0 0					34.5											PLUG & ABANDON EXIST 24" RCP. FILL WITH SPECIAL PROVISION (FLOWABLE FILL). REMOVED PIPE
R15	118+84	120+74	LT																										10.39 29	3.6 0										REMOVE 187 LF EXIST 12" RCP. REMOVE EXIST DMH.
R16	119+40	120+72	RT																					14.9 0					90.52											PLUG & ABANDON EXIST 24" RCP. FILL WITH SPECIAL PROVISION (FLOWABLE FILL).
R17	120+74	121+03	LT																										0 4	1.7 2.37										REMOVE 30 LF EXIST 12" RCP. REMOVE EXIST DI & DMH.
R18	120+72	121+67	RT																					10.6 0					4.74 26	SEE CARL GLEASON DAILY REPORT 6/5/12										PLUG & ABANDON EXIST 24" RCP. FILL WITH SPECIAL PROVISION (FLOWABLE FILL). REMOVED PIPE
R19	121+03	121+70	LT																										0 3											REMOVE 63 LF EXIST 12" RCP.
R20	121+67	123+08	RT																					15.9 0					57.08 2	2.5 0										PLUG & ABANDON EXIST 24" RCP. FILL WITH SPECIAL PROVISION (FLOWABLE FILL). REMOVE EXIST DI.
R21	SL 40+31	122+95	RT-LT																										0 4	1.18	SEE DAILY REPORT 6/14/12										REMOVE 17 LF EXIST 8" VCT. REMOVE EXIST DMH.
R22	SL 40+64	SL 40+31	RT																										0 6											REMOVE 29 LF EXIST 8" VCT.
R23	122+95	125+24	LT																										0 10	3.1 8.3	SEE DUFRESNE GROUP REPORT 5/9/12										REMOVE 224 LF EXIST 8" RCP. REMOVE EXIST DMH.
																														4.7	SEE DUFRESNE GROUP REPORT 5/10/12										
R24	125+24	125+24	LT																										0 4	3.8 0										REMOVE 2 LF EXIST 6" VCT. REMOVE EXIST DMH.
																														2.0	SEE DUFRESNE GROUP REPORT 5/17/12										
R25	125+24	SL 60+38	LT																					1.3 0						1.0	SEE DUFRESNE GROUP REPORT 6/11/12										PLUG & ABANDON EXIST 6" VCT. FILL WITH SPECIAL PROVISION (FLOWABLE FILL). WAS REMOVED
R26	125+24	125+33	LT-RT																										0 6											REMOVE 43 LF EXIST 6" VCT.
																														9.0	SEE DUFRESNE GROUP REPORT 5/30/12										
R27	127+89	128+86	RT																										0 36	2.5 0										REMOVE 20 LF EXIST 8" VCT. REMOVE EXIST DI.
																														8.0	SEE DUFRESNE GROUP REPORT 5/22/12										
R28	SL 70+26	128+89	LT																										0 7	4.5 4.7										REMOVE 20 LF EXIST 8" VCT. REMOVE EXIST DMH.
R29	SL 70+35	SL 70+26	LT																										0 1											REMOVE 6 LF EXIST 8" VCT.
R30	128+86	130+09	RT																										48.5 60	2.0 2.37										REMOVE 120 LF EXIST 8" VCT. REMOVE EXIST DI.
																														5.0	SEE DUFRESNE GROUP REPORT 6/13/12										
R31	130+09	130+27	RT																										0 8	2.37										REMOVE 16 LF EXIST 6" PVC. REMOVE EXIST DMH.
R32	130+27		RT																										0 4	4.5 7.4										REMOVE EXIST DMH.
R33	130+11	130+48	LT-RT																										0 10											REMOVE 36 LF EXIST 12" VCT. REMOVE EXIST DMH. REMOVE EXIST. BYPASS GATE
R34	130+31	130+54	LT																										0 6	3.8 0										REMOVE 23 LF EXIST 12" VCT. REMOVE EXIST DI.
R35	130+56	131+04	LT																										0 14	3.1 0										REMOVE 46 LF EXIST 10" VCT. REMOVE EXIST DMH.
R36	131+04	132+30	LT																										0 3	2.3 0										REMOVE 122 LF EXIST 10" VCT. REMOVE EXIST DI.
																														8.0	SEE DUFRESNE GROUP REPORT 7/29/12										
R37	130+77	SL 80+88	RT-LT																					2.7 0					0 4	3.0 0										PLUG & ABANDON EXIST 15" VCT. FILL WITH SPECIAL PROVISION (FLOWABLE FILL). REMOVE EXIST DMH.
R38	130+77	130+93	RT																										0 8	2.5 0										REMOVE 13 LF EXIST 12" VCT. REMOVE EXIST DMH & DI.
R39	130+93	131+52	RT																																					REMOVE 56 LF EXIST 12" VCT.
R40	131+52	132+50	RT																										0 10	1.8 0										REMOVE 95 LF EXIST 18" RCP. REMOVE EXIST DMH.
R41	132+30	132+45	LT																										0 2	3.8 0										REMOVE 12 LF EXIST 10" VCT. REMOVE EXIST DMH.
																								62.5 0					415 441.28	67.3 76.5										

DRAINAGE DETAIL SHEET #4 SUBTOTAL:

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: z85b010dds.xls
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
DRAINAGE DETAIL SHEET #4

PLOT DATE: **3/21/2011**
DRAWN BY: D. PECK
CHECKED BY:
SHEET **22** OF **339**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET #5

LAYOUT CODE (#)	STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		DITCH		PIPE ARCH			PIPE		ALLOWABLE OPTIONS				PIPE ELBOW	ES	DMH	CB	DI	PRCCDI	DEPTH DI / DMH	SPECIAL PROVISION (FLOWABLE FILL)	REINF STEEL	GRATE	CHAN ELEV	CRM	TRENCH EXCAVATION		COMM EXC	UNC CHAN EXC	STRUCT EXCAV	GRAN BKFILL STRUCT	GRAN BORR	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
				NO. DEG.	INLET	OUTLET	IN	OUT	SPAN IN	RISE IN	L FT	D IN	L FT	PCCSP TH	SPECIAL PROVISION (TRENCHLESSS PIPE)	CPEP SL	PVC	NO. DEG.	EA	EA	EA	EA		FT	CY	LBS	TYPE	EA	CY	EARTH CY	ROCK CY	CY	CY	CY	CY	CY	SY	CY	TYPE	LT EA	RT EA	
R42	132+45	132+62	LT																										0 ~~4~~	2.3		SEE DUFRESNE GROUP REPORT 7/19/12									
																														2.0		SEE DUFRESNE GROUP REPORT 7/31/12									REMOVE 16 LF EXIST 10" VCT. REMOVE EXIST DMH & DI.
R43	SL 90+35	132+45	LT																										0 ~~5~~	~~3.7~~ 0											REMOVE 17 LF EXIST 8" VCT.
R44	132+62	133+15	LT																											4.4		SEE DUFRESNE GROUP REPORT 7/30/12									
																													0 ~~12~~	~~3.0~~ 0											REMOVE 49 LF EXIST 10" VCT. REMOVE EXIST DMH & DI.
R45	135+02	135+00	RT-LT																											2.0		SEE DUFRESNE GROUP REPORT 8/1/12									
																													0 ~~8~~	~~1.1~~ 0											REMOVE 34 LF EXIST 8" VCT. REMOVE EXIST DMH & DI.
R46	134+94	135+00	LT																											2.5		SEE DUFRESNE GROUP REPORT 8/7/12									
																													0 ~~3~~												REMOVE 5 LF EXIST 8" VCT. REMOVE EXIST DI.
R47	SL 200+38	135+00	LT																											7.4		SEE DUFRESNE GROUP REPORT 8/15/12									
																													0 ~~7~~	~~5.1~~ 0											REMOVE 18 LF EXIST 8" VCT.
R48	135+00	135+19	LT																										0 ~~3~~												REMOVE 16 LF EXIST 10" RCP. REMOVE EXIST DMH.
																														2.5l		SEE DUFRESNE GROUP REPORT 7/26/12									
R49	135+19	137+12	LT																										0 ~~77~~												REMOVE 189 LF EXIST 10" RCP.
																														3.64		SEE DUFRESNE GROUP REPORT 7/23/12									
R50	137+12	137+20	LT-RT																										0 ~~40~~	~~6.0~~ 0											REMOVE 42 LF EXIST 24" RCP. NOT REMOVED, PARTIAL REMOVAL DURING SEWER & WATER INSTALLATION, REMAINDER OF PIPE WAS FILLED WITH FLOWABLE FILL.
R51	137+20	138+29	RT																										0 ~~45~~	~~4.1~~ 3.56	SEE DUFRESNE GROUP REPORT 9/19/12 FOR COMPUTATION									REMOVE 111 LF EXIST 12" RCP. REMOVE EXIST DMH.
R52	138+29	SL 600+60	RT																										0 ~~10~~	~~3.3~~ 3.56	SEE DUFRESNE GROUP REPORT 9/19/12 FOR COMPUTATION									REMOVE 51 LF EXIST 12" RCP. REMOVE EXIST DI. PLUG & ABANDON EXIST 8" VCT.
R53	SL 600+56	SL 600+60	LT-RT																						1.1				0 ~~8~~	~~3.0~~ 0											PLUG & ABANDON EXIST 8" VCT. FILL WITH CONCRETE CLASS D. REMOVE EXIST DMH.
																																									SEE NEW DRAINAGE SHEETS FOR REMOVAL OF EXISTING DI.
R54	SL 600+70	SL 600+56	LT																						0.1				0 ~~4~~	~~2.5~~ 0											PLUG & ABANDON EXIST 8" VCT. FILL WITH CONCRETE CLASS D. REMOVE EXIST DI.
																																									SEE NEW DRAINAGE SHEETS FOR REMOVAL OF EXISTING DI.
R55	139+58	SL 600+56	RT-LT																						0.2				0 ~~6~~												PLUG & ABANDON EXIST 8" VCT. FILL WITH CONCRETE CLASS D. REMOVE EXIST DI.
																																									SEE NEW DRAINAGE SHEETS FOR REMOVAL OF EXISTING DI.
R56	SL 700+40	139+58	RT																						1.0																	PLUG & ABANDON EXIST 8" VCT. FILL WITH CONCRETE CLASS D. PLUG & ABANDON EXIST. DMH
																										SEE FLOWABLE FILL SLIPS															SEE FLOWABLE FILL SLIPS.
R57	SL 700+38	SL 700+49	RT																						0.5																	PLUG & ABANDON EXIST 18" PIPE. FILL WITH CONCRETE CLASS D. PLUG & ABANDON EXIST. DMH
																																									SEE FLOWABLE FILL SLIPS.
DRAINAGE DETAIL SHEET #5 SUBTOTAL:																								2.9				~~241~~ 0	~~33.6~~ 33.87											
TOTALS:																				13	12	67		85.4					3773	233.5				1998			4.5 80.5	III I		3	
																										90 15															TYPE D GRATES DRAIN MANHOLE COVERS
									12	33						X																								
									18	2580						X																								
									24	1424						X																								
									30	1119						X																								
									36	387						X																								
									48	48					X																								

PROJECT NAME:	**BARRE CITY**
PROJECT NUMBER	**FEGC F 026-1(34) C/2**
FILE NAME: z85b010dds.xls	PLOT DATE: **3/21/2011**
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
DRAINAGE DETAIL SHEET #5	SHEET **23** OF **339**

VHB Vanasse Hangen Brustlin, Inc.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
110+50		0	26						
110+77		53							
NORTH MAIN STREET			86						
111+~~40~~00		~~0~~-148				0			
	10		~~4~~ 349						
111+50		~~21~~ 229				0			
	50		~~44~~ 445				0		
112+00		~~26~~ 252				0			
	50		~~52~~ 479				0		
112+50		~~30~~ 265				0			
	50		~~293~~ 510				0		
113+00		286				0			
	50		625				0		
113+50		388				0			
	50		639				0		
114+00		303				0			
	50		605						
114+50		351		SUBTRACT 449.6 CY		0			
	50		634	OF CONTAMINATED					
115+00		334		SOIL IN THIS AREA		0			
	50		614						
115+50		329				0			
	50		595						
116+00		314				0			
	50		537						
116+50		286				0			
	50		482						
117+00		255				0			
	50		448						
117+50		229				0			
	50		417				1		
118+00		221				1			
	50		417				1		
118+50		229				0			
	50		420						
119+00		225				0			
	50		430						
119+50		239				0			
	50		443						
120+00		239				0			
	50		427						
120+50		222				0			
	50		420						
121+00		232				0			
	50		412						
121+50		213				0			
	50		395				0		
122+00		214				0			
	50		447				0		
122+50		269				0			
	50		475				0		
123+00		244				0			
	50		468						
123+50		261				0			
	50		469				1		
124+00		246				1			
	50		459				1		
124+50		250				0			
	50		459						
125+00		246				0			
	50		469					CUT	26211
125+50		261				0		ROCK	0
	50		481				0	R.FAC	.495
126+00		259				0		FILL	10
	50		482				0	F.FAC	1.15
126+50		262				0		EX. C	26211
	50		474						
127+00		250				0			
	50		485						
127+50		274				0			
	50		499						
128+00		265				0			
	50		481						
128+50		254				0			
	50		475						
129+00		259				0			
	50		473						
129+50		252				0			
	50		469				2		
130+00		254				2			
	50		503				2		
130+50		289				0			
	50		502				1		
131+00		253				1			
	50		470				1		
131+50		255				0			
	50		478						
132+00		261				0			
	50								

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
NORTH MAIN STREET CONTINUED									
132+50			255				0		
	50		481						
133+00			264				0		
	50		494						
133+50			269				0		
	50		498						
134+00			269				0		
	50		513						
134+50			285				0		
	50		500						
135+00			255				0		
	50		489						
135+50			273				0		
	50		506						
136+00			274				0		
	50		517						
136+50			284				0		
	50		499						
137+00			255				0		
	50		495						
137+50			280				0		
	50		603						
138+00			371				0		
	~~50~~ 60		~~787~~ 944						
138+~~50~~60			479				0		
	50		550						
139+00			115				0		
	50		252						
139+50			157				0		
	50		154						
140+00			10				0		
TOTAL 110+50 ~ 140+00 = 28,110.8 CY									
VT ROUTE 62									
10+35			459						
	15		~~262~~ 295						
10+50			459						
	50		437						
11+00			13						
	50		23					CUT	797
11+50			12					ROCK	0
	50		29					R.FAC	.495
12+00			19					FILL	0
	50		38					F.FAC	1.15
12+50			22					EX. C	797
	50		8						
12+60			21						
TOTAL 10+35 ~ 12+60 = 790 CY									
MAPLE AVENUE									
20+35			55					CUT	66
	15		~~26~~ 27					ROCK	0
20+50			43					R.FAC	.495
	50		40					FILL	0
21+00			0					F.FAC	1.15
TOTAL 20+35 ~ 21+00 = 67 CY								EX. C	~~66~~
COTTAGE STREET									
30+22			132						
	3		~~18~~ 15					CUT	189
30+25			132					ROCK	0
	25		76					R.FAC	.495
30+50			31					FILL	0
	25		27					F.FAC	1.15
30+75			28					EX. C	189
	25		26						
31+00			29						
	25		26						
31+25			28						
	17		18						
31+42			28						
TOTAL 30+22 ~ 31+42 = 188 CY									

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
S. SEMINARY STREET									
40+23			153						
	2		~~14~~ 11						
40+25			153						
	25		~~91~~ 91						
40+50			44					CUT	~~194~~ 191
	50		56					ROCK	0
41+00			16					R.FAC	495
	50		28					FILL	0
41+50			14					F.FAC	1.15
	20		5					EX. C	~~194~~ 191
41+70			0						
TOTAL 40+23 ~ 41+70 = 191 CY									
GRANITE STREET									
50+23			139				0		
	2		10						
50+25			139				0		
	25		69						
50+50			10				0	CUT	103
	25		9					ROCK	0
50+75			9				0	R.FAC	495
	25		9					FILL	0
51+00			10				0	F.FAC	1.15
	15		6					EX. C	103
51+15			11				0		
WEST STREET									
60+22			57						
	3		6						
60+25			57						
	25		31						
60+50			9						
	25		~~8~~ 7					CUT	68
60+75			7					ROCK	0
	25		6					R.FAC	.495
61+00			7					FILL	0
	50		13					F.FAC	1.15
61+50			7					EX. C	~~68~~ 66
	25		3						
61+75			0						
TOTAL 60+22 ~ 61+75 = 66 CY									
MERCHANT STREET									
70+22			54				0		
	3		6					CUT	70
70+25			54				0	ROCK	0
	25		~~45~~ 44					R.FAC	495
70+50			42				0	FILL	0
	25		19					F.FAC	1.15
70+75			0				0	EX. C	70
TOTAL 70+22 ~ 70+75 = 69 CY									
DEPOT SQUARE									
80+23			197				0		
	2		15						
80+25			197				0		
	25		101						
80+50			22				0	CUT	181
	25		22					ROCK	0
80+75			25				0	R.FAC	495
	25		27					FILL	0
81+00			33				0	F.FAC	1.15
	25		15					EX. C	181
81+25			0				0		
SEE CALCULATION BOOK FOR COMMON EXCAVATION CALCULATIONS FOR DEPOT SQUARE									

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK & COBBLE EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
NORTH MAIN ST.		2801~~1~~8						
111+40	140+00	~~262~~+1	1900	10	24301		24301	
VT ROUTE 62		790						
SL 10+35	SL 13+00	~~797~~	0	0	797		25098	
MAPLE AV.		67						
SL 20+35	SL 22+50	~~66~~	0	0	66		25164	
COTTAGE ST.		188						
SL 30+22	SL 30+75	~~189~~	0	0	189		25353	
S. SEMINARY ST.		191						
SL 40+23	SL 40+75	~~194~~	0	0	194		25547	
GRANITE ST.								
SL 50+23	SL 51+15	103	0	0	103		25650	
WEST ST.		66						
SL 60+22	SL 60+75	~~68~~	0	0	68		25718	
MERCHANT ST.		69						
SL 70+22	SL 70+75	~~70~~	0	0	70		25788	
DEPOT SQ.		213.9						
SL 80+23	SL 81+25	~~181~~	0	0	181		25969	
PEARL ST.		18	(SEE SHEET 4 OF 339)					
SL 90+23	SL 90+50	~~39~~	0	0	33		26002	
KEITH AV.		22	(SEE SHEET 4 OF 339)					
SL 200+23	SL 200+50	~~30~~	0	0	39		26041	
PROSPECT ST.								
SL 500+25	SL 501+00	37	0	0	37		26078	
MAIN ST. - SOUTH			SEE FLAT FILES FOR CALCULATION (718.8 CY)					
SL 600+26	SL 603+00	266	0	0	266		26344	
ELM ST.								
SL 700+25	SL 707+00	27	0	0	27		26371	
CREAMERY COURT								
SL 300+22	~ 300+50	24	(SEE SHEET 4 OF 339)					
WET POND AREA								
SL 14+50, RT		2326.52	(SEE FLAT FILES)					

REMARKS

EARTH AND ROCK EXCAVATION	28281
SOLID ROCK EXCAVATION (PLAN AREA)	500
COBBLESTONE SURFACE REMOVAL (BY CITY)	1400
WET POND EXCAVATION	1550
EARTH EXCAVATION	27931
PLANIMETERED FILL	10
LESS FACTORED SOLID ROCK	
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	
NET PLANIMETERED FILL	10
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	11.5
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	27931
CHANNEL EXCAVATION	
UNDERDRAIN EXCAVATION	
STRUCTURE EXCAVATION	
TOTAL MATERIAL AVAILABLE FOR FILL	27931
TOTAL FILL INCLUDING FACTOR	11.5
TOTAL MATERIAL FOR FILL	27931
BORROW	
EXCESS EXCAVATION	27920

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85B010 EarthworkSummary C2.xls
PROJECT LEADER: G. BAKOS
DESIGNED BY: J. WHITMORE / D. PECK
EARTHWORK SUMMARY SHEET #1

PLOT DATE: 3/9/2011
DRAWN BY: KAN / JAW
CHECKED BY: D. PECK
SHEET **24** OF **339**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
PEARL STREET									
90+23		62				0			
	2		5					CUT	33
90+25		62				0		ROCK	0
	25		29					R.FAC	.495
90+50		0				0		FILL	0
								F.FAC	1.15
								EX. C	33
KEITH AVENUE									
200+23		73				0			
	2		5					CUT	39
200+25		73				0		ROCK	0
	25		34					R.FAC	.495
200+50		0				0		FILL	0
								F.FAC	1.15
								EX. C	39
PROSPECT STREET									
500+25		36							
	25		28					CUT	37
500+50		25						ROCK	0
	10		9					R.FAC	.495
500+60		25						FILL	0
								F.FAC	1.15
								EX. C	37
NORTH MAIN STREET - SOUTH									
600+26		13							
	24		12						
600+50		13							
	50		61						
601+00		52							
	50		70					CUT	266
601+50		24						ROCK	0
	50		50					R.FAC	.495
602+00		30						FILL	0
	50		51					F.FAC	1.15
602+50		25						EX. C	266
	50		23						
603+00		0							
ELM STREET									
700+25		25						CUT	27
	25		21					ROCK	0
700+50		20						R.FAC	.495
	15		6					FILL	0
700+65		0						F.FAC	1.15
								EX. C	27

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		

STATION	DIST FT.	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		

SUMMARY AND BALANCES

STATION TO STATION	TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL

REMARKS

PROJECT NAME:	**BARRE CITY**
PROJECT NUMBER:	**FEGC F 026-1(34) C/2**

FILE NAME: 85B010 EarthworkSummary C2.xls
PROJECT LEADER: G. BAKOS
DESIGNED BY: J. WHITMORE / D. PECK
EARTHWORK SUMMARY SHEET #2

PLOT DATE: 3/9/2011
DRAWN BY: KAN / JAW
CHECKED BY: D. PECK
SHEET **25** OF **339**

Barre City FEGC F026-1(34)
Bounds & Pins on Side Streets
Coordinates are State Plane with a 1927 datum
Alignment data from Consultant VHB
(z85b010prop.alg) file dated 10/31/07

Last Revised: rbullock 6/2/2009 7:48:26 AM
Baseline Alignment: Main St US 302

Offset Point	Baseline Station	Offset	- - - Offset Point - - - Northing	Easting	Desc.	Notes:
10	120+47.23	RT 25.51	619991.57	498239.77	APL	Computed Bound Location
11	121+60.38	RT 29.30	619903.51	498311.86	APL	Computed Bound Location
12	123+03.72	RT 31.33	619794.20	498404.41	APL	Computed Bound Location
13	124+93.61	RT 32.18	619651.00	498529.72	APL	Computed Bound Location
14	135+79.55	RT 32.17	618856.61	499271.30	APL	Computed Bound Location
20	137+58.19	RT 34.82	618721.97	499386.58	APL	Computed Bound Location
21	136+78.94	RT 27.97	618786.39	499339.93	APL	Computed Bound Location
23	120+46.52	LT 24.00	620023.95	498277.23	APL	Computed Bound Location
24	122+69.43	LT 27.41	619858.63	498426.20	APL	Computed Bound Location
25	125+74.24	LT 33.81	619635.13	498632.69	APL	Computed Bound Location
26	128+61.26	LT 30.16	619421.86	498823.92	APL	Computed Bound Location
28	136+22.78	LT 32.02	618868.33	499347.79	APL	Computed Bound Location
42	118+61.40	RT 24.29	620134.69	498121.22	APL	Computed Bound Location
43	119+35.07	RT 24.77	620077.95	498168.22	APL	Computed Bound Location
44	120+32.37	RT 25.41	620003.02	498230.29	APL	Computed Bound Location
45	121+85.08	RT 29.77	619884.66	498327.82	APL	Computed Bound Location
46	124+22.19	RT 31.59	619704.86	498482.58	APL	Computed Bound Location
47	125+28.75	RT 31.93	619625.32	498553.06	APL	Computed Bound Location
48	126+16.71	RT 31.64	619559.73	498612.69	APL	Computed Bound Location
49	127+20.46	RT 31.67	619482.97	498682.81	APL	Computed Bound Location
50	127+99.30	RT 31.38	619425.17	498736.65	APL	Computed Bound Location
51	132+13.86	RT 32.55	619122.35	499020.11	APL	Computed Bound Location
52	132+61.45	RT 32.69	619061.82	499077.32	APL	Computed Bound Location
53	134+04.54	RT 32.35	618983.77	499151.09	APL	Computed Bound Location
54	134+56.04	RT 32.29	618946.35	499186.47	APL	Computed Bound Location
55	134+95.34	RT 32.25	618917.79	499213.47	APL	Computed Bound Location
56	135+59.53	RT 32.19	618871.14	499257.56	APL	Computed Bound Location
57	136+15.10	RT 31.21	618831.58	499295.76	APL	Computed Bound Location
63	123+16.97	LT 28.80	619823.94	499458.35	APL	Computed Bound Location
64	124+54.09	LT 31.99	619723.21	498551.32	APL	Computed Bound Location
65	108+67.49	RT 90.82	620871.69	497450.25	APL	Computed Bound Location
66	127+34.54	LT 32.42	619516.04	498739.48	APL	Computed Bound Location
67	128+06.67	LT 31.26	619462.43	498787.54	APL	Computed Bound Location
68	108+71.08	RT 36.53	620890.23	497479.32	APL	Computed Bound Location
69	129+44.98	LT 31.17	619361.66	498881.96	APL	Computed Bound Location
70	131+20.33	LT 32.35	619234.91	499003.14	APL	Computed Bound Location
71	131+97.08	LT 32.22	619179.00	499055.71	APL	Computed Bound Location
73	132+54.33	LT 32.13	619137.29	499094.93	APL	Computed Bound Location
74	133+12.53	LT 32.03	619094.66	499135.00	APL	Computed Bound Location
75	134+29.93	LT 31.84	619009.79	499214.80	APL	Computed Bound Location
76	109+50.43	RT 125.75	620785.04	497474.55	APL	Computed Bound Location
77	135+10.83	LT 31.71	618950.41	499270.62	APL	Computed Bound Location
80	110+28.80	LT 25.26	620817.72	497641.52	APL	Computed Bound Location
81	109+85.28	RT 155.46	620762.75	497454.32	APL	Computed Bound Location
82	110+72.80	LT 24.16	620782.60	497668.04	APL	Computed Bound Location
83	110+77.83	LT 36.14	620786.13	497680.56	APL	Computed Bound Location
84	110+71.86	LT 48.16	620798.28	497686.24	APL	Computed Bound Location
85	111+19.86	LT 50.04	620761.88	497717.60	APL	Computed Bound Location
86	111+53.81	LT 28.96	620722.19	497722.24	APL	Computed Bound Location
87	111+92.81	LT 30.87	620692.85	497748.01	APL	Computed Bound Location
88	112+02.82	LT 31.84	620685.63	497755.00	APL	Computed Bound Location
89	112+58.63	RT 47.29	620592.69	497727.82	APL	Computed Bound Location
90	112+84.83	LT 37.64	620625.06	497810.60	APL	Computed Bound Location
92	114+45.63	LT 56.64	620510.62	497925.42	APL	Computed Bound Location
93	115+36.67	LT 56.82	620426.86	497966.02	APL	Computed Bound Location
94	116+27.17	LT 30.08	620351.15	498017.21	APL	Computed Bound Location
95	116+37.01	LT 38.27	620348.28	498029.69	APL	Computed Bound Location
96	116+76.04	LT 37.02	620316.46	498052.33	APL	Computed Bound Location
97	109+66.34	RT 160.11	620751.19	497457.56	APL	Computed Bound Location
98	115+68.84	RT 47.11	620349.62	497920.22	APL	Computed Bound Location
99	116+96.90	RT 39.37	620285.97	497979.70	APL	Computed Bound Location
100	116+76.46	RT 36.99	620271.31	497993.68	APL	Computed Bound Location
101	117+09.36	RT 31.36	620248.54	498018.09	APL	Computed Bound Location
102	117+94.46	LT 23.46	620216.65	498114.75	APL	Computed Bound Location
103	109+65.18	RT 131.96	620769.63	497478.87	APL	Computed Bound Location
104	117+41.46	LT 45.56	620217.02	498114.92	APL	Computed Bound Location
194	130+77.63	RT 106.69	619170.57	498872.70	APL	Computed Bound Location
30000	109+53.29	RT 20.34	620848.42	497558.82	BND	Bound Found
30001	109+55.05	RT 23.76	620844.92	497557.25	BND	Bound Found
30002	109+62.09	RT 19.64	620841.97	497564.85	BND	Bound Found
30003	110+84.77	RT 36.87	620737.07	497630.87	BND	Bound Found
30004	110+84.66	RT 27.15	620741.37	497635.28	BND	Bound Found
30005	111+73.79	RT 40.18	620663.51	497680.57	BND	Bound Found
30006	112+48.68	RT 47.73	620600.21	497721.28	BND	Bound Found
30007	112+60.37	RT 47.51	620591.19	497728.73	BND	Bound Found
30008	114+61.14	RT 48.58	620433.29	497852.40	BND	Bound Found
30009	115+39.02	RT 49.23	620351.89	497923.38	BND	Bound Found
30010	117+93.08	RT 27.53	620184.93	498074.81	BND	Bound Found
30011	118+58.83	RT 28.23	620134.12	498116.55	BND	Bound Found
30012	119+22.13	RT 28.33	620085.57	498157.17	BND	Bound Found
30013	116+74.50	LT 21.81	620308.47	498039.29	BND	Bound Found
30014	116+45.48	LT 20.69	620343.70	498021.13	BND	Bound Found
30021	109+57.12	LT 29.22	620876.28	497599.99	BND	Bound Found
30025	113+10.95	LT 37.37	620604.45	497826.64	BND	Bound Found
30038	124+87.02	RT 32.11	619655.98	498525.37	BND	Bound Found
30039	126+98.77	RT 30.94	619499.47	498668.63	BND	Bound Found
30040	127+34.32	RT 31.10	619539.73	498717.07	BND	Bound Found
30041	128+94.59	LT 30.58	619397.89	498846.99	BND	Bound Found
30042	130+61.90	LT 32.44	619277.48	498963.12	BND	Bound Found
30043	132+39.85	LT 32.05	619147.76	499084.93	BND	Bound Found
30044	134+88.63	LT 31.42	618966.36	499255.18	BND	Bound Found
30045	130+77.35	RT 31.69	619221.41	498926.47	BND	Bound Found
30047	130+03.56	RT 32.09	619275.78	498876.00	BND	Bound Found
30048	129+20.05	RT 31.97	619336.48	498818.93	BND	Bound Found
30049	137+96.75	LT 27.89	618733.82	499459.23	BND	Bound Found
30057	138+26.04	RT 63.82	618649.88	499411.07	BND	Bound Found
30058	138+43.65	LT 25.60	618699.59	499487.66	BND	Bound Found
30059	141+87.95	LT 39.78	618521.40	499773.23	IPIPE	Pipe Found
30060	141+21.70	LT 42.80	618556.91	499720.35	BND	Bound Found
30077	143+26.19	RT 71.56	618356.46	499838.82	APL	Computed Bound Location
30078	143+28.31	RT 71.22	618355.71	499840.83	APL	Computed Bound Location
30079	144+82.89	RT 30.13	618300.91	499970.40	APL	Computed Bound Location
30080	144+01.67	LT 45.51	618417.16	499966.94	APL	Computed Bound Location
30081	143+74.62	LT 44.02	618433.26	499937.83	IP	Rod Found
30083	138+78.88	LT 30.65	618682.17	499515.42	APL	Computed Bound Location
30084	139+32.77	LT 32.65	618654.10	499558.99	APL	Computed Bound Location

Barre City FEGC F026-1(34)
Bounds & Pins on Side Streets
Coordinates are State Plane with a 1927 datum
Alignment data from Consultant VHB
[z85b010prop.alg] file dated 10/31/07

File Name: M:\ProjUb010\Su.\x85b010bnd.alg
Last Revised: rbullock 6/2/2009 7:48:26 AM
Baseline Alignment: VT62 VHB

Offset Point	Baseline Station	Offset	- - - Offset Point - - - Northing	Easting	Type	Notes:
104	12+76.92	LT92.84	620275.93	497659.51	APL	Computed Bound Location
105	13+61.12	LT112.12	620234.92	497526.00	APL	Computed Bound Location
107	15+61.06	RT 90.00	620512.20	497405.63	APL	Computed Bound Location
108	15+74.06	RT157.00	620576.72	497427.87	APL	Computed Bound Location
114	16+32.06	RT154.00	620603.12	497376.13	APL	Computed Bound Location
115	12+42.81	RT 92.04	620452.21	497597.28	APL	Computed Bound Location
116	13+01.21	RT 97.51	620444.96	497571.73	APL	Computed Bound Location
144	10+52.62	RT 0.91	620535.82	497770.92	APL	Computed Bound Location
156	12+60.45	LT 87.44	620291.89	497680.06	APL	Computed Bound Location
529	12+96.84	LT235.83	620127.11	497672.23	IP	Rod Found
30008	10+44.71	LT 69.81	620433.29	497852.40	BND	Bound Found
30022	12+25.02	RT 47.54	620425.97	497637.39	BND	Bound Found
30023	13+23.34	RT100.14	620445.93	497563.36	BND	Bound Found
30050	12+80.85	LT 92.47	620272.83	497653.62	BND	Bound Found
30051	14+44.06	RT 88.62	620452.52	497506.27	BND	Bound Found
30052	12+43.79	RT 94.49	620453.66	497595.07	BND	Bound Found
30054	12+57.24	RT 54.49	620414.99	497609.34	BND	Bound Found
30055	12+56.23	RT 46.70	620408.76	497614.05	BND	Bound Found

Barre City FEGC F026-1(34)
Bounds & Pins on Side Streets
Coordinates are State Plane with a 1927 datum
Alignment data from Consultant VHB
[z85b010prop.alg] file dated 10/31/07

File Name: M:\ProjUb010\Su.\x85b010bnd.alg
Last Revised: rbullock 6/2/2009 7:48:26 AM
Baseline Alignment: Maple Ave

Offset Point	Baseline Station	Offset	- - - Offset Point - - - Northing	Easting	Type	Notes:
91	21+08.97	RT 42.35	620543.72	497963.39	APL	Computed Bound Location
92	20+60.43	RT 47.62	620510.62	497925.42	APL	Computed Bound Location
141	22+70.55	LT 54.77	620719.39	498028.60	APL	Computed Bound Location
142	22+65.53	LT 53.80	620715.45	498025.62	APL	Computed Bound Location
143	25+41.69	RT 24.14	620853.60	498274.31	APL	Computed Bound Location
145	24+61.19	RT 26.32	620793.55	498219.96	APL	Computed Bound Location
146	23+18.99	RT 30.56	620689.13	498121.72	APL	Computed Bound Location
147	22+76.06	RT 33.26	620657.40	498091.34	APL	Computed Bound Location
148	21+83.23	RT 36.96	620593.35	498021.10	APL	Computed Bound Location
170	21+59.16	LT 107.03	620692.54	497914.11	APL	Computed Bound Location
174	22+82.11	LT 27.70	620784.69	498031.93	APL	Computed Bound Location
176	24+36.45	LT 25.89	620812.34	498165.35	APL	Computed Bound Location
177	25+40.73	LT 25.85	620887.15	498237.23	APL	Computed Bound Location
178	23+18.96	RT 34.56	620686.21	498124.45	APL	Computed Bound Location
179	21+41.32	RT 41.99	620563.15	497990.07	APL	Computed Bound Location
30015	23+71.07	RT 53.45	620724.18	498161.52	BND	Bound Found
30016	23+88.26	RT 54.13	620721.99	498188.51	BND	Bound Found
30017	24+42.44	RT 54.15	620760.64	498226.75	BND	Bound Found
30018	24+37.83	RT 54.08	620757.36	498223.43	BND	Bound Found
30025	20+30.76	LT 85.36	620604.45	497826.64	BND	Bound Found
30026	20+95.81	LT 102.97	620654.44	497868.99	BND	Bound Found
30027	20+91.30	LT 91.02	620657.84	497877.61	BND	Bound Found
30028	21+61.08	LT 74.16	620667.55	497935.54	BND	Bound Found
30029	22+41.56	LT 70.83	620713.20	497997.12	BND	Bound Found
30030	22+43.24	LT 52.94	620700.67	498009.98	BND	Bound Found
30031	23+83.55	RT 54.01	620718.51	498184.89	BND	Bound Found
30032	23+58.10	RT 54.00	620718.51	498184.89	BND	Bound Found
30033	24+37.79	LT 23.88	620811.89	498167.72	BND	Bound Found
30034	25+16.10	LT 25.30	620868.95	498220.80	BND	Bound Found
30035	25+16.36	LT 27.29	620870.52	498219.54	BND	Bound Found
30036	25+26.16	RT 24.66	620841.90	498263.98	BND	Bound Found
30037	24+61.02	RT 29.54	620768.23	498322.20	BND	Bound Found
30102	26+49.43	RT 23.63	620958.44	498374.24	IPIPE	Pipe Found
30103	28+01.00	LT 34.06	621082.92	498408.78	BND	Bound Found

Barre City FEGC F026-1(34)
Bounds & Pins on Side Streets
Coordinates are State Plane with a 1927 datum
Alignment data from Consultant VHB
[z85b010prop.alg] file dated 10/31/07

File Name: M:\ProjUb010\Su.\x85b010bnd.alg
Last Revised: rbullock 6/2/2009 7:48:26 AM
Baseline Alignment: South Main

Offset Point	Baseline Station	Offset	- - - Offset Point - - - Northing	Easting	Type	Notes:
209	605+22.10	RT 34.69	618128.03	499520.04	APL	Computed Bound Location
211	604+39.75	LT 19.39	618216.87	499562.65	APL	Computed Bound Location
30057	600+29.52	RT 99.50	618649.88	499411.07	BND	Bound Found
30075	603+07.69	LT 29.06	618349.24	499542.32	APL	Computed Bound Location
30076	602+57.76	LT 27.29	618398.24	499536.00	APL	Computed Bound Location
30115	602+64.01	RT 38.34	618378.27	499476.30	APL	Computed Bound Location
30116	603+14.27	RT 33.16	618330.63	499493.09	APL	Computed Bound Location

Barre City FEGC F026-1(34)
Bounds & Pins on Side Streets
Coordinates are State Plane with a 1927 datum
Alignment data from Consultant VHB
[z85b010prop.alg] file dated 10/31/07

File Name: M:\ProjUb010\Su.\x85b010bnd.alg
Last Revised: rbullock 6/2/2009 7:48:26 AM
Baseline Alignment: Elm St

Offset Point	Baseline Station	Offset	- - - Offset Point - - - Northing	Easting	Type	Notes:
30083	700+42.27	LT 26.23	618682.17	499515.42	APL	Computed Bound Location
30084	700+26.54	RT 23.16	618654.10	499558.99	APL	Computed Bound Location
30087	702+85.46	RT 20.78	618903.44	499624.40	APL	Computed Bound Location
30088	702+29.60	RT 21.83	618849.88	499610.57	APL	Computed Bound Location
30089	702+19.80	RT 132.06	618812.23	499714.52	APL	Computed Bound Location
30090	702+18.67	RT 203.66	618792.44	499783.40	APL	Computed Bound Location
30129	707+51.64	LT 26.59	619329.16	499798.77	APL	Computed Bound Location

Barre City FEGC F026-1(34)
Bounds & Pins on Side Streets
Coordinates are State Plane with a 1927 datum
Baseline Alignment:Montpelier & Barre Railroad Co. Inc. V.53/S.L.1 dated 5/

Offset Point	Baseline Station	Offset	Offset Coordinate Northing	Easting	Desc.	Notes:
68	218+84.00	Lt 16.50	620890.23	497479.32	APL	Computed Bound Location
65	218+94.00	Rt 16.50	620871.69	497450.25	APL	Computed Bound Location
76	219+84.00	Rt 16.50	620785.04	497474.55	APL	Computed Bound Location
81	220+00.00	Rt 42.00	620762.75	497454.32	APL	Computed Bound Location
103	220+00.00	Rt 16.50	620769.63	497478.87	APL	Computed Bound Location
97	220+12.00	Rt 42.00	620751.19	497457.56	APL	Computed Bound Location
1465	221+14.16	Lt 10.14	620666.91	497535.35	IPIPE	
30023	223+32.97	Rt 24.07	620445.93	497563.36	BND	
30052	223+36.23	Lt 8.41	620453.66	497595.08	BND	
116	223+36.58	Rt 16.50	620444.96	497571.73	APL	Computed Bound Location
115	223+38.37	Lt 10.00	620452.21	497597.28	APL	Computed Bound Location
30054	223+77.93	Lt 7.64	620414.99	497609.35	BND	
30022	223+78.84	Lt 37.75	620425.97	497637.39	BND	
30055	223+85.61	Lt 9.49	620408.76	497614.05	BND	
156	225+21.94	Lt 10.00	620291.89	497680.06	APL	Computed Bound Location
30050	225+22.48	Rt 22.59	620272.82	497653.62	BND	
104	225+24.00	Rt 16.50	620275.03	497659.51	APL	Computed Bound Location
529	226+40.32	Rt 100.76	620127.11	497672.23	IP	
530	229+02.93	Rt 238.4	679840.09	497746.58	IP	
527	229+53.81	Rt 110.38	619888.34	497875.61	IP	
528	230+27.23	Rt 331.61	619685.39	497760.97	IPIPE	
526	230+28.04	Rt 330.76	619686.35	497762.14	IP	
524	231+43.48	Rt 323.32	619604.80	497845.18	IP	
525	231+53.32	Rt 116.50	619736.40	498005.04	IP	
523	233+96.00	Rt 387.14	619374.83	497967.45	IP	
522	235+36.93	Rt 409.95	619255.08	498045.18	IP	
521	235+37.01	Rt 390.21	619268.28	498059.86	IP	
511	235+38.40	Rt 327.39	619309.84	498107.34	BND	
512	235+39.45	Rt 267.76	619348.69	498152.23	BND	
500	235+77.25	Rt 506.87	619160.12	498000.43	BND	
501	235+77.39	Rt 500.87	619164.06	498004.97	BND	
502	235+77.47	Rt 496.86	619166.68	498008.00	BND	
503	235+78.58	Rt 454.54	619194.29	498040.11	BND	
3	235+80.02	Rt 398.57	619230.79	498082.54	BND	
509	235+81.65	Rt 333.50	619273.28	498131.85	BND	
510	235+83.34	Rt 258.50	619322.39	498188.57	BND	
511	235+94.35	Rt 83.98	619431.42	498325.28	BND	
506	237+44.50	Rt 489.85	619047.62	498125.36	BND	
507	237+57.42	Rt 500.24	619031.07	498126.32	BND	
505	237+68.75	Rt 493.46	619027.22	498138.96	BND	
504	237+69.58	Rt 499.43	619022.60	498135.09	BND	
508	238+09.61	Rt 483.30	619003.77	498173.92	BND	

Barre City FEGC F026-1(34)
Bounds & Pins on Side Streets
Coordinates are State Plane with a 1927 datum
Alignment data from Consultant VHB
[z85b010prop.alg] file dated 10/31/07

File Name: M:\ProjUb010\Su.\x85b010bnd.alg
Last Revised: rbullock 6/2/2009 7:48:26 AM
Baseline Alignment:Summer St

Offset Point	Baseline Station	Offset	- - - Offset Point - - - Northing	Easting	Type	Notes:
132	407+80.39	RT 30.02	620149.79	498636.98	APL	Computed Bound Location
135	403+21.10	RT 27.67	620514.42	498349.33	APL	Computed Bound Location
136	402+81.00	RT 27.95	620546.06	498324.68	APL	Computed Bound Location
139	418+19.23	RT 36.12	619450.24	499409.15	APL	Computed Bound Location
145	400+20.92	LT 39.69	620793.55	498219.96	APL	Computed Bound Location
151	401+72.69	RT 27.92	620631.99	498301.95	APL	Computed Bound Location
152	414+90.52	LT 21.50	619735.41	499218.85	APL	Computed Bound Location
153	414+57.93	LT 21.88	619760.22	499197.36	APL	Computed Bound Location
154	414+58.87	RT 27.34	619726.69	499161.32	APL	Computed Bound Location
155	414+91.26	RT 27.51	619702.55	499182.48	APL	Computed Bound Location
157	411+71.39	RT 26.27	619916.34	499351.87	APL	Computed Bound Location
158	412+07.18	RT 26.10	619895.11	498982.69	APL	Computed Bound Location
160	416+81.88	RT 28.79	619557.41	499305.64	APL	Computed Bound Location
161	417+75.99	RT 45.48	619471.83	499360.99	APL	Computed Bound Location
191	423+15.52	LT 14.93	619316.34	499876.21	APL	Computed Bound Location
218	406+66.97	RT 105.79	620162.51	498497.99	APL	Computed Bound Location
239	407+77.44	RT 31.97	620105.14	498617.76	APL	Computed Bound Location
242	406+99.61	RT 111.73	620162.25	498513.75	APL	Computed Bound Location
30015	400+40.36	RT 48.91	620724.18	498161.52	BND	Bound Found
30016	400+58.53	RT 28.83	620721.99	498188.51	BND	Bound Found
30017	400+51.16	LT 25.03	620760.64	498226.75	BND	Bound Found
30018	401+01.74	LT 20.40	620757.36	498223.43	BND	Bound Found
30031	400+59.09	RT 33.82	620718.51	498184.89	BND	Bound Found
30037	400+24.12	LT 40.05	620791.23	498222.20	BND	Bound Found
30104	402+15.76	LT 21.93	620628.19	498324.52	BND	Bound Found
30105	402+48.72	LT 21.98	620602.07	498344.63	BND	Bound Found
30106	405+47.52	RT 28.00	620334.63	498486.95	IP	Rod Found
30107	406+05.39	RT 28.19	620288.61	498522.04	IPIPE	Pipe Found
30108	406+61.44	RT 28.05	620244.24	498556.28	BND	Bound Found
30109	406+94.64	RT 28.00	620217.93	498576.53	BND	Bound Found
30110	407+31.11	RT 29.46	620187.21	498600.14	BND	Bound Found
30112	413+09.34	RT 26.53	619833.98	499061.37	BND	Bound Found
30129	422+21.57	LT 18.87	619159.77	499198.77	APL	Computed Bound Location
30131	416+78.38	RT 102.37	619512.12	499247.54	BND	Bound Found
30132	413+09.26	LT 23.24	619870.99	499094.64	BND	Bound Found
30133	412+95.14	LT 23.74	619881.18	499083.69	BND	Bound Found
30136	408+76.14	RT 27.77	620091.39	498716.11	APL	Computed Bound Location
30137	408+11.52	LT 21.48	620169.29	498694.04	BND	Bound Found
30138	406+81.50	LT 36.88	620267.86	498620.00	APL	Computed Bound Location
30139	406+66.83	RT 111.65	620189.05	498493.25	BND	Bound Found
30140	406+67.38	RT 111.57	620188.66	498493.65	IP	Rod Found

VHB Vanasse Hangen Brustlin, Inc.

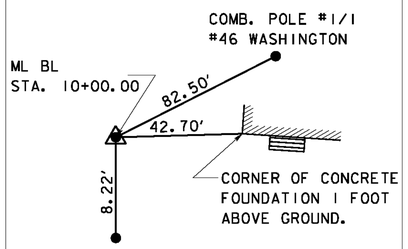
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PROJECT NUMBER: FEGC F 026-1(34) C/2

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PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
BOUND COORDINATES

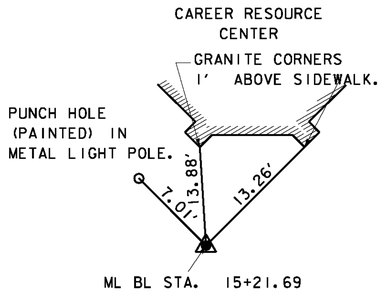
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DRAWN BY: M. TROTTIER
CHECKED BY: F. MALNATI

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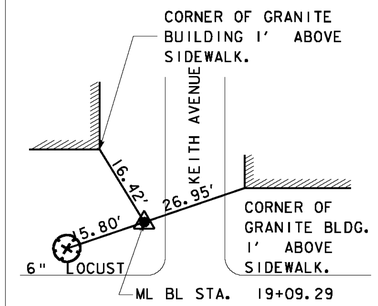
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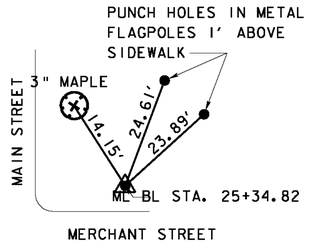
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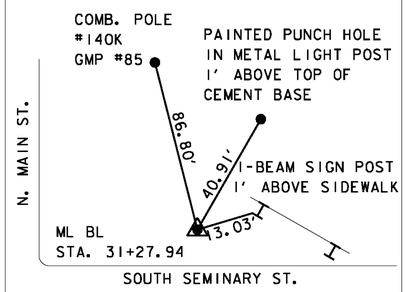
NORTH = 618963.7406
EAST = 4999255.1263
ELEV. = 601.651



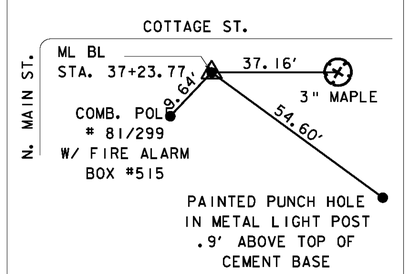
NORTH = 619418.6586
EAST = 498825.7810
ELEV. = 601.258



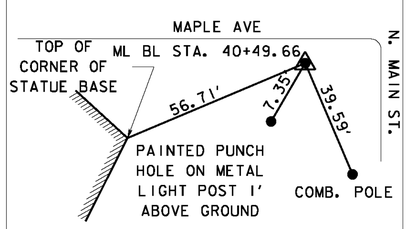
NORTH = 619856.4447
EAST = 498425.6127
ELEV. = 596.999



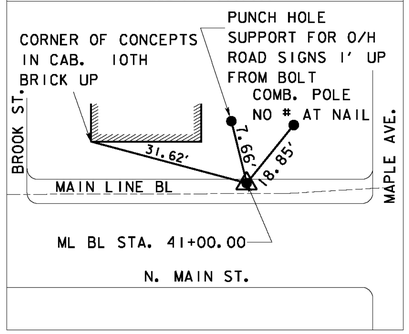
NORTH = 620310.4466
EAST = 498039.7427
ELEV. = 594.693



NORTH = 620573.3625
EAST = 497847.1822
ELEV. = 592.657



NORTH = 620619.0861
EAST = 497806.7434
ELEV. = 593.085



DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TIES_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
SURVEY TIES

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 27 OF 339

ROAD	POINT	STATION	NORTHING	EASTING
NORTH MAIN STREET & WASHINGTON STREET	POB	110+50.00	620785.40	497634.95
	PI	113+59.75	620543.00	497827.78
	PI	116+22.97	620336.28	497990.73
	PI	117+35.33	620246.86	498058.77
	PI	120+57.47	620000.13	498265.89
	PI	121+94.91	619896.94	498356.66
	PC	122+63.61	619845.05	498401.69
	PI	125+89.05	619599.26	498615.00
	PT	129+14.39	619362.52	498838.30
	PC	135+78.40	618879.50	499293.92
	PI	136+21.61	618848.07	499323.57
	PT	136+64.81	618815.38	499351.84
	PC	138+11.21	618704.64	499447.60
	PI	138+57.11	618669.92	499477.62
	PT	139+02.49	618644.12	499515.59
	PC	141+01.97	618531.98	499680.56
	PI	141+43.34	618508.72	499714.78
	PT	141+84.67	618488.37	499750.80
	PC	143+90.66	618387.05	499930.14
	PI	144+04.81	618380.08	499942.47
	PT	144+18.68	618369.31	499951.66
	POE	144+50.00	618345.48	499971.98
ROUTE 62	POB	10+00.00	620516.12	497848.97
	PC	12+48.84	620373.36	497645.14
	PI	13+47.59	620316.71	497564.26
	PT	14+24.69	620366.08	497478.74
	POE	15+80.27	620443.86	497343.99
MAPLE AVENUE	POB	20+00.00	620516.45	497848.71
	PC	20+66.34	620553.44	497903.78
	PI	22+13.82	620635.68	498026.19
	PT	23+60.35	620740.19	498130.25
	PC	23+97.77	620766.70	498156.65
	PI	24+78.54	620823.94	498213.65
	PT	25.59.30	620882.99	498268.76
	POE	27+00.00	620985.85	498364.76
COTTAGE STREET	POB	30+00.00	620311.10	498009.89
	POE	31+50.00	620394.63	498134.48

ROAD	POINT	STATION	NORTHING	EASTING
S. SEMINARY STREET	POB	40+00.00	619822.83	498421.01
	POE	42+00.00	619962.60	498564.06
GRANITE STREET	POB	50+00.00	619660.70	498564.22
	POE	51+25.00	619579.90	498468.85
CREAMERY COURT	POB	300+00.00	619513.03	498698.18
	POE	301+15.00	619435.05	498613.66
WEST STREET	POB	60+00.00	619502.53	498707.85
	POE	61+75.00	619637.30	498819.47
MERCHANT STREET	POB	70+00.00	619388.85	498813.53
	POE	71+00.00	619456.25	498887.40
DEPOT SQUARE	POB	80+00.00	619270.51	498925.10
	POE	81+85.00	619145.33	498788.88
PEARL STREET	POB	90+00.00	619118.85	499068.15
	POE	91+00.00	619182.87	499144.97
KEITH AVENUE	POB	200+00.00	618934.65	499241.90
	POE	201+00.00	619002.37	499315.48
SOUTH MAIN STREET	POB	600+00.00	618644.70	499514.73
	PC	600+46.71	618600.64	499499.23
	PI	600+84.94	618564.58	499486.54
	PCC	601+22.26	618526.37	499488.04
	PI	601+61.72	618486.95	499489.60
	PT	602+00.92	618448.58	499498.82
	PI	603+28.00	618325.03	499528.54
	POE	604+75.00	618179.34	499548.14
PROSPECT STREET	POB	500+00.00	618357.86	499520.64
	PC	501+67.16	618318.83	499358.10
	PI	502+33.85	618303.26	499293.26
	PT	502+99.76	618305.23	499226.59
	POE	503+25.00	618305.98	499201.36
ELM STREET & WELLINGTON STREET	POB	700+00.00	618634.53	499529.70
	PC	702+69.00	618894.19	499599.94
	PI	702+93.34	618917.69	499606.29
	PT	703+17.57	618939.85	499616.35
	PC	703+91.88	619007.51	499647.06
	PI	704+14.34	619027.97	499656.34
	PT	704+36.75	619047.25	499667.86
	PC	706+91.20	619265.72	499798.30

ROAD	POINT	STATION	NORTHING	EASTING
ELM STREET CONT.	PI	707+26.83	619296.32	499816.57
	PT	707+62.14	619330.34	499827.16
	POE	708+50.00	619414.23	499853.27
CHURCH STREET	POB	800+00.00	618376.74	499516.10
	PC	801+82.08	618389.67	499697.72
	PI	803+05.50	618398.43	499820.83
	PT	804+24.08	618348.90	499933.88
	POE	804+25.00	618348.53	499934.72
SUMMER STREET & ELM STREET	POB	400+00.00	620785.97	498175.74
	PC	406+95.72	620234.13	498599.40
	PI	407+58.30	620184.49	498637.51
	PT	408+20.07	620147.14	498687.71
	PC	412+71.73	619877.52	499050.06
	PI	413+08.10	619855.80	499079.24
	PT	413+44.28	619829.17	499104.03
	PC	414+00.62	619787.94	499142.42
	PI	414+60.71	619743.96	499183.36
	PT	415+20.78	619698.38	499222.51
	PC	417+45.11	619528.20	499368.68
	PI	417+88.32	619495.43	499396.83
	PT	418+30.22	619477.19	499436.00
	PI	422+68.96	619292.05	499833.77
	POE	424+00.00	619319.28	499961.95

LEGEND

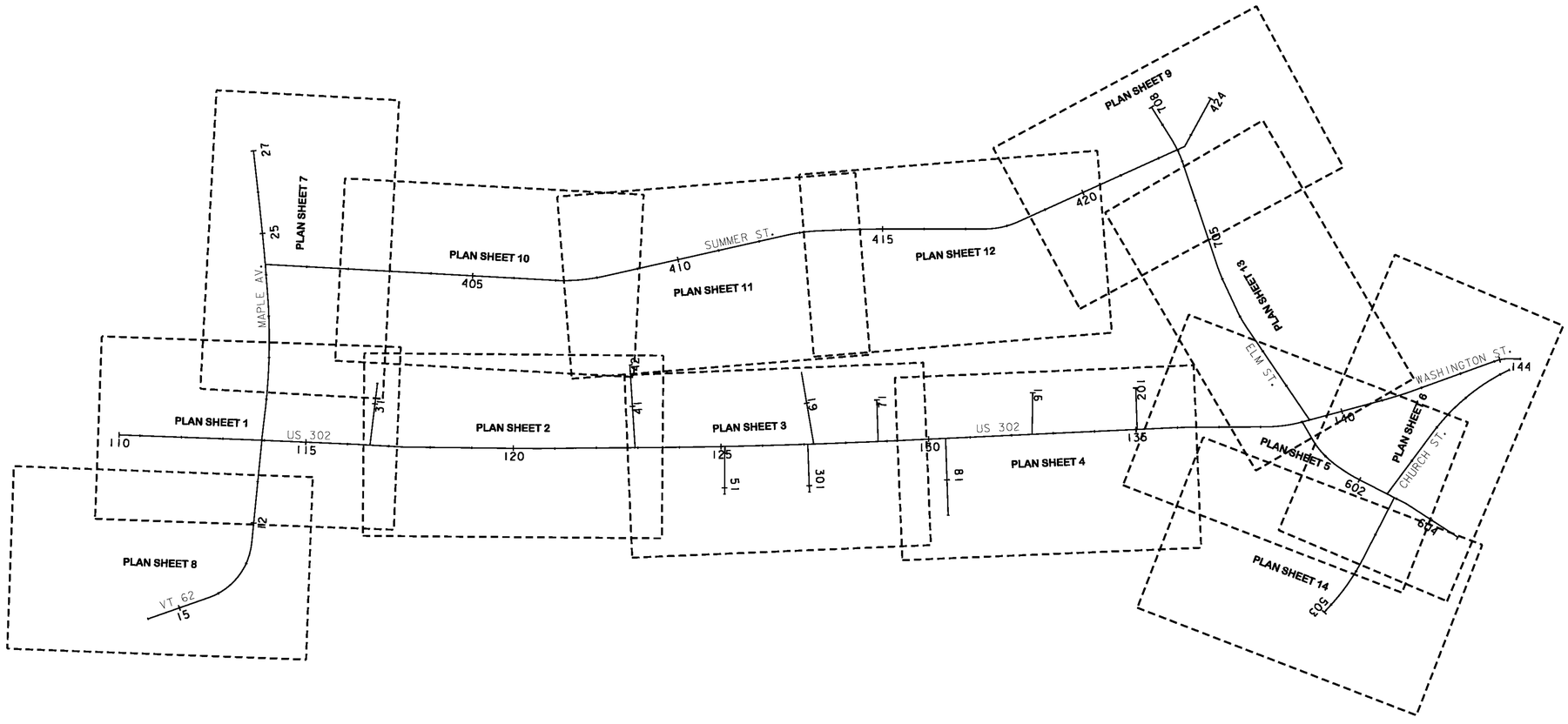
POB	POINT OF BEGINNING ALIGNMENT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PCC	POINT OF COMPOIUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
POE	POINT OF END ALIGNMENT

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_ALIPT_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ALIGNMENT POINTS
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 28 OF 339

VHB Vanasse Hangen Brustlin, Inc.



PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010_PLANKEY_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
PLAN SHEET KEY	SHEET 29 OF 339

VHB Vanasse Hangen Brustlin, Inc.

SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 5 INCH)

SL STA 10+65 LT - STA 114+75 RT
STA 111+26 - 111+87 LT
STA 111+40 - 111+66 RT
STA 111+95 - 112+43 RT
STA 112+17 - 112+31 LT
STA 112+65 - SL STA 20+67 LT
STA 112+68 - SL STA 10+59 RT
STA 114+90 LT - SL STA 20+83 RT
STA 115+34 - 115+39 LT
STA 115+13 - 115+99 RT
STA 115+78 - 115+89 LT
STA 116+32 LT - SL STA 31+42 LT
STA 116+53 - 116+90 RT
SL STA 30+83 RT - 116+90 LT
SL STA 31+33 - 31+42 RT

SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH)

STA 111+66 - 111+95 RT
STA 111+87 - 112+17 LT
STA 112+31 - 112+65 LT
STA 112+43 - 112+68 RT
STA 114+75 - 115+13 RT
STA 114+90 - 115+34 LT
STA 115+39 - 115+78 LT
STA 115+89 - 116+32 LT
STA 115+99 - 116+53 RT
SL STA 30+83 - 31+33 RT

VERTICAL GRANITE CURB

SL STA 10+43 - 10+64 LT
SL STA 10+53 - 11+10 RT
SL STA 10+56 - 11+75 LT-RT (CURBED ISLAND)
SL STA 20+33 - 20+66 LT
SL STA 20+45 - 20+83 RT
SL STA 20+47 - 20+95 LT-RT (CURBED ISLAND)
SL STA 30+29 - ~~30+90 RT~~ 31+42, RT
SL STA 30+30 - 31+17 LT
SL STA 30+33 - 30+51 RT (PLANTING BED)
SL STA 30+40 - 30+51 RT (PLAZA PARKING LOT)
~~SL STA 31+26 - 31+42 RT~~
SL STA 31+27 - 31+42 LT
STA 111+31 - 111+51 LT
STA 111+40 - 111+51 RT
STA 111+56 - 111+91 LT
STA 111+56 - 111+69 RT
STA 111+91 - 112+47 RT
STA 112+13 - 112+35 LT
STA 112+61 - 113+48 LT
STA 112+63 - 113+45 RT
STA 114+42 - 114+80 RT
STA 114+40 - 114+97 LT
STA 115+07 - 116+04 RT
STA 115+27 - 115+45 LT
STA 115+74 - 115+93 LT
STA 116+26 - 116+39 LT
STA 116+47 - 116+90 RT
STA 116+74 - 116+90 LT
STA 116+47 - 116+90 RT (BACK CURB)

SPECIAL PROVISION (COBBLESTONE PAVERS)

SL STA 10+56 - 10+70 LT-RT (MEDIAN ISLAND)
SL STA 11+00 - 11+52 LT-RT (MEDIAN ISLAND)
SL STA 11+68 - 11+75 LT-RT (MEDIAN ISLAND)
STA 116+76 - 116+90 LT (PLAZA)

SPECIAL PROVISION (COBBLESTONE PAVERS)

SL STA 10+64 - 10+66, LT (TRANSITION)
SL STA 11+11 - 11+12, RT (TRANSITION)

MULLIGANS *255

VT. STATE PLANE GRID

MATCH TO STA. 21+75 (SHEET 36)

MAPLE AV (VT 14)

ML POT 113+93.56 =
MAPLE AVE. POB 20+00.00
Δ = 85° 38' 42.36" LT.

STA 31+42.00
END APPROACH
LIMITS OF PAVEMENT
POE
Sta 31+50.00

*257

COTTAGE STREET
N56°09'40.43"E

BROOK ST.

~~STA 113+00.00~~ 111+50.00
END APPROACH
BEGIN PROJECT

PC Sta 20+66.34

*99 GONE

Exist. R.O.W.

NORTH MAIN ST. (US 302)

S38°30'07.48"E

S38°14'53.24"E

S37°15'58.16"E

N56°06'24.57"E

Sta 113+59.75

Sta 116+22.97

MATCH TO STA. 116+90 (SHEET 31)

COLD PLANE 40'

~~STA 110+65.00~~ 110+50.00
BEGIN APPROACH
~~LIMITS OF PAVEMENT~~

HORACE LANE

CONCRETE TO GRANITE CURB TRANSITION (SEE DETAILS)

VT 29

ML POT 113+93.98 =
RTE 62 POB 10+00.00
Δ = 93° 14' 29.40" RT.

CONCRETE TO GRANITE CURB TRANSITION (SEE DETAILS)

ML POT 116+54.60 =
COTTAGE ST. POB 30+00.00
Δ = 86° 34' 21.41" LT.

1. PROVIDE AN EXPANSION JOINT IN ALL NEW SIDEWALK ON THE EXISTING RIGHT-OF-WAY.
2. SEE CURBED ISLAND DETAILS FOR ADDITIONAL INFORMATION ON MEDIAN ISLAND LAYOUT

SPECIAL PROVISION (IMPRINTED CONCRETE SIDEWALK, 5 INCH)

STA 114+24 - 114+33 RT
STA 114+49 - 114+75 RT
STA 115+13 - 115+99 RT
STA 116+53 - 116+90 RT
STA 116+79 - 116+90 LT

DETECTABLE WARNING SURFACE

STA 111+30 LT
STA 111+54 LT
STA 111+54 RT
STA 113+47 RT
STA 113+50 LT
STA 114+41 RT
STA 114+42 LT
STA 116+40 LT
STA 116+73 LT

CONSTRUCT DRIVE TYPE I

	WIDTH
STA 111+79 RT	18'
STA 112+02 LT	20'
STA 112+48 LT	24'
STA 112+55 RT	13'
STA 114+93 RT	26'
STA 115+12 LT	30'
STA 115+60 LT	27'
STA 116+09 LT	31'
STA 116+26 RT	41'
SL STA 31+08 RT	36'
SL STA 31+22 LT	10'

CONSTRUCT SIDEWALK RAMP TYPE 6

STA 111+26 - 111+39 LT
STA 111+44 - 111+63 LT
STA 111+44 - 111+63 RT
STA 113+40 - 113+52 RT
STA 113+42 - 113+56 LT
STA 114+33 - 114+49 RT
STA 114+37 - 114+49 LT
STA 116+32 - 116+41 LT
STA 116+71 - 116+80 LT

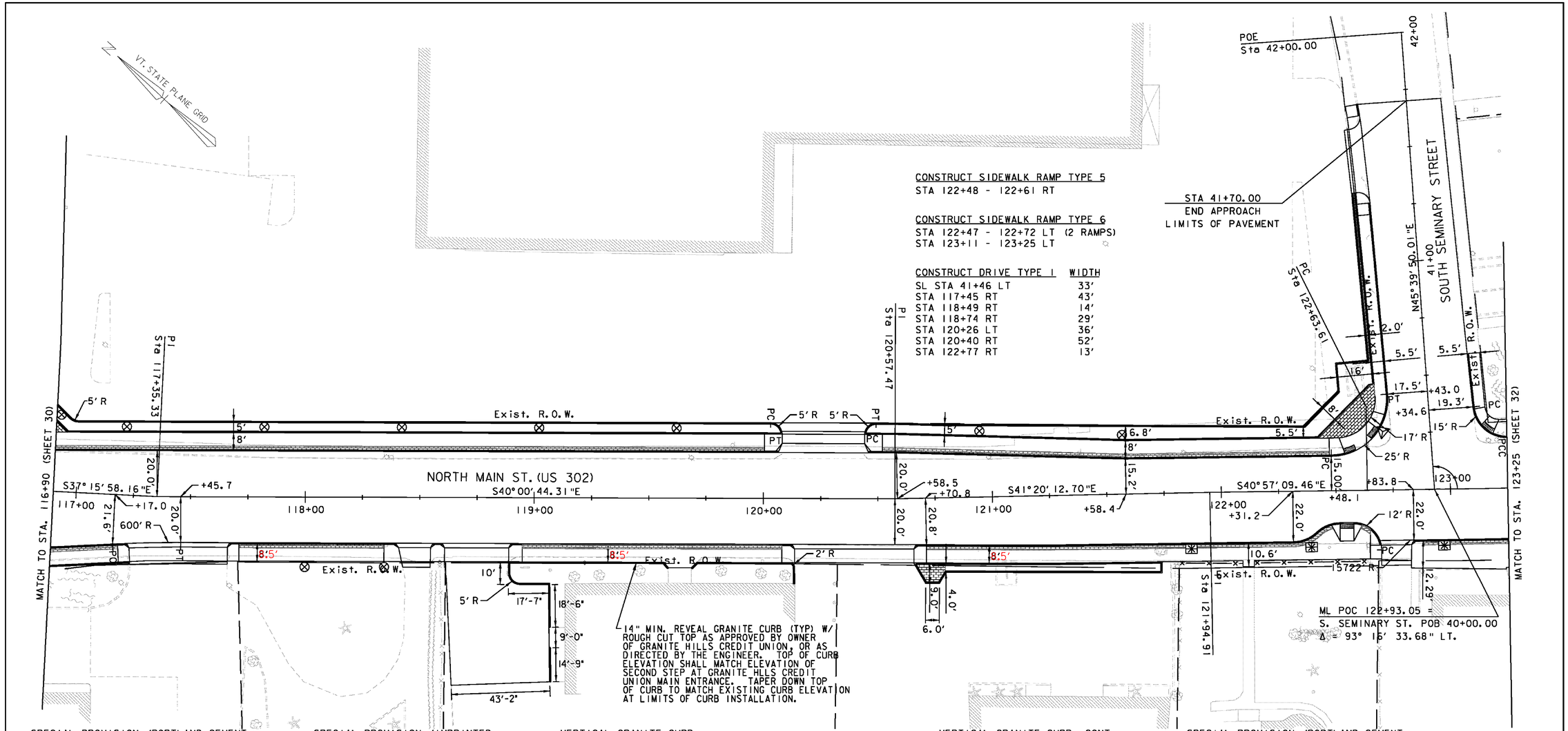
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FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr_nu_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ALIGNMENT AND CURB LAYOUT PLAN #1

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 30 OF 339



SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 5 INCH)
STA 116+90 - 117+19 RT
STA 116+90 - 120+00 LT
STA 117+71 - 118+34 RT
STA 118+95 - 120+08 RT
STA 120+52 - SL STA 41+22 LT
STA 120+71 - 122+65 RT
STA 122+88 - 123+25 RT
SL STA 40+58 RT - 123+25 LT

DETECTABLE WARNING SURFACE
STA 122+55 RT
STA 122+57 LT
SL STA 40+24 RT
SL STA 40+26 LT

SPECIAL PROVISION (IMPRINTED CONCRETE SIDEWALK, 5 INCH)
SL STA 40+58 - 41+32 LT
STA 116+90 - 120+00 LT
STA 116+90 - 117+19 RT
STA 117+71 - 118+34 RT
STA 118+95 - 120+08 RT
STA 120+52 - 122+47 LT
STA 120+71 - 121+84 RT
STA 121+89 - 122+48 RT
STA 122+61 - 122+65 RT
STA 122+88 - 122+94 RT
STA 122+99 - 123+25 RT

SPECIAL PROVISION (COBBLESTONE PAVERS)
STA 116+90 - 116+95 LT (PLAZA)
STA 120+66 - 120+79 RT (LOT ISLAND)
STA 122+43 - SL STA 40+47 LT (PLAZA)

VERTICAL GRANITE CURB
STA 116+90 - 117+23 RT
STA 116+90 - 117+25 RT (BACK CURB)
STA 116+90 - 120+06 LT
STA 116+90 LT 38' - 120+08 LT 28' (PARKING LOT CURB)
STA 116+95 LT 26' - 120+08 LT 28' (PLANTING BED)
STA 117+67 - 118+39 RT
STA 118+56 - 118+60 RT
STA 118+90 - 120+13 RT
STA 119+07 - 119+07 RT (LOT CURB)
STA 120+44 LT 28' - SL STA 41+32 LT 25' (PLANTING BED)
STA 120+44 LT 28' - SL STA 41+32 LT 27' (PARKING LOT CURB)
STA 120+46 - 122+54 LT
STA 120+65 - 121+74 RT (BACK CURB)
STA 120+65 - 121+74 RT (PARKING LOT CURB)
STA 120+66 - 122+52 RT
STA 122+58 - 122+69 RT
STA 122+84 - 123+25 RT
STA 123+19 - 123+25 LT

VERTICAL GRANITE CURB, CONT.
SL STA 40+26 - 40+58 RT
SL STA 40+28 - 41+27 LT
SL STA 41+66 - 41+71 LT

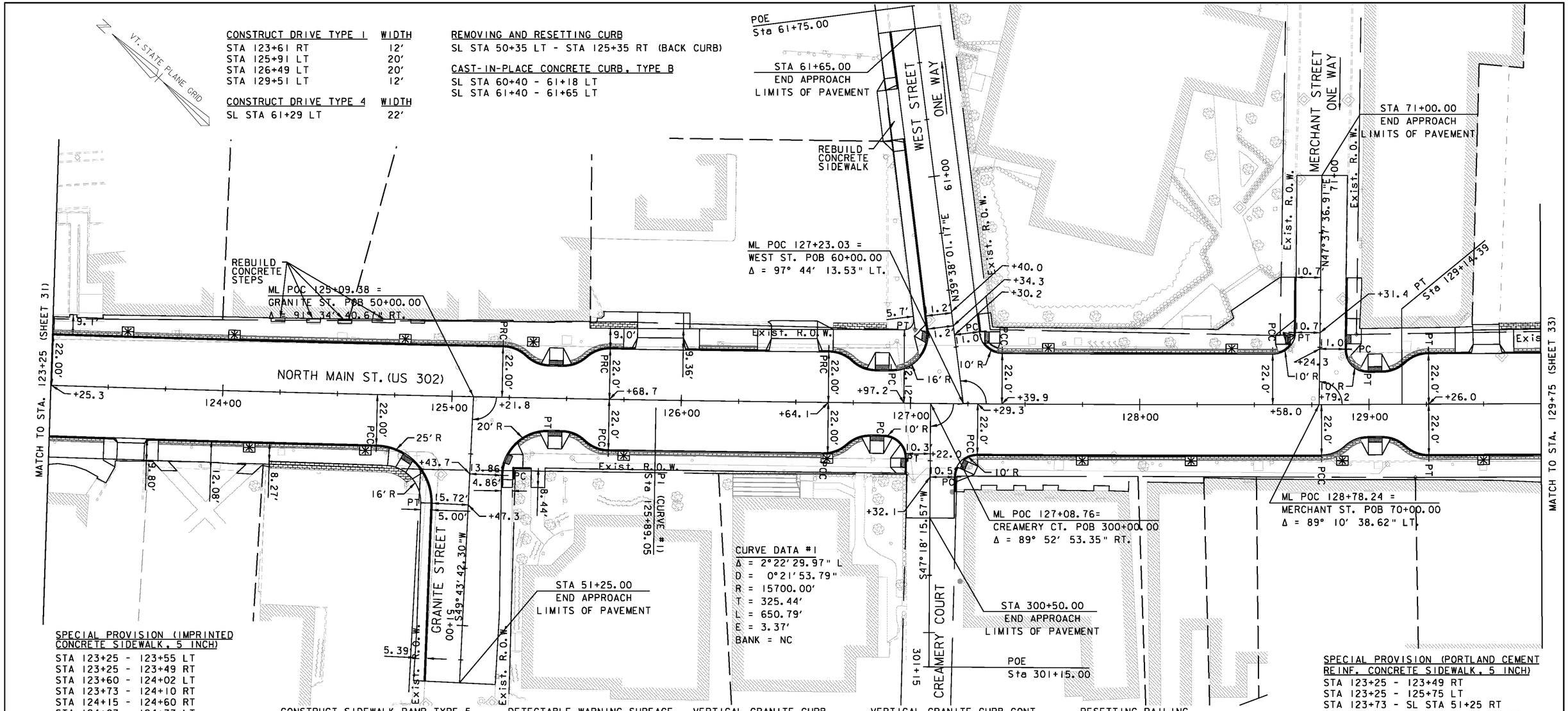
SPECIAL PROVISION (VERTICAL GRANITE CURB, UNFINISHED)
STA 118+89 - 119+59 RT (BACK CURB, 14" REVEAL)
STA 118+89 - 119+07 RT (LOT CURB, 14" REVEAL)
STA 119+69 - 120+14 RT (BACK CURB, 14" REVEAL)

SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH)
STA 117+19 - 117+71 RT
STA 118+34 - 118+95 RT
STA 120+00 - 120+52 LT
STA 120+08 - 120+71 RT
STA 122+65 - 122+88 RT
SL STA 41+22 - 41+70 LT

* PROVIDE AN EXPANSION JOINT IN ALL NEW SIDEWALK ON THE EXISTING RIGHT-OF-WAY

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #2	SHEET 31 OF 339



SPECIAL PROVISION (IMPRINTED CONCRETE SIDEWALK, 5 INCH)

STA 123+25 - 123+55 LT
STA 123+25 - 123+49 RT
STA 123+60 - 124+02 LT
STA 123+73 - 124+10 RT
STA 124+15 - 124+60 RT
STA 124+07 - 124+77 LT
STA 124+65 - 124+73 RT
STA 124+82 - 125+39 LT
STA 125+29 - 125+39 RT
STA 125+50 - 125+74 LT
STA 125+50 - 125+73 RT
STA 125+78 - 126+61 RT
STA 126+08 - 126+33 LT
STA 126+64 - 126+79 RT
STA 126+66 - 126+81 LT
STA 126+94 - 127+04 LT
STA 127+29 - 127+72 RT
STA 127+38 - 127+57 LT
STA 127+77 - 128+20 RT
STA 127+62 - 128+38 LT
STA 128+25 - 128+96 RT
STA 128+43 - 128+61 LT
STA 128+91 - 128+98 LT
STA 129+07 - 129+38 LT
STA 129+07 - 129+47 RT
STA 129+52 - 129+75 RT
STA 129+63 - 129+75 LT

CONSTRUCT SIDEWALK RAMP TYPE 5

SL STA 60+23 - 60+36 LT
STA 125+39 - 125+52 RT
STA 125+39 - 125+52 LT
STA 126+79 - 126+92 RT
STA 126+81 - 126+94 LT
STA 128+60 - SL STA 70+37 LT
STA 128+96 - 129+09 RT
STA 128+96 - 129+09 LT
SL STA 300+18 - 300+30 RT
SL STA 300+34 LT - STA 127+29 RT

CONSTRUCT SIDEWALK RAMP TYPE 6

SL STA 50+35 LT - STA 125+29 RT
SL STA 60+38 RT - STA 127+37 LT
SL STA 70+38 RT - STA 128+91 LT
STA 124+73 - 124+88 RT

SPECIAL PROVISION (REMOVE AND RESET USPS MAIL BOX)

STA 123+50 LT (2)
STA 127+85 LT (3)

DETECTABLE WARNING SURFACE

SL STA 50+26 LT
SL STA 60+27 RT
SL STA 60+30 LT
SL STA 70+28 LT
SL STA 70+29 RT
STA 124+81 RT
STA 125+45 LT
STA 125+45 RT
STA 126+86 RT
STA 126+87 LT
STA 129+03 LT
STA 129+03 RT
SL STA 300+26 LT
SL STA 300+26 RT

VERTICAL GRANITE CURB

STA 125+48 - 126+83 RT
STA 126+02 - 126+38 LT
STA 126+60 - 126+84 RT
STA 126+89 - 126+98 RT
STA 126+90 - 127+07 LT
STA 127+23 - 129+00 RT
STA 127+32 - 128+66 LT
STA 129+06 - 129+45 LT
STA 129+06 - 129+75 RT
STA 129+58 - 129+75 LT
SL STA 300+28 - 300+31 RT
SL STA 300+28 - 300+38 LT

SPECIAL PROVISION (COBBLESTONE PAVERS)

STA 124+21 - 124+84 RT
STA 125+60 - 125+80 LT
STA 126+66 - 126+89 LT
STA 129+57 - 129+75 LT

VERTICAL GRANITE CURB CONT.

SL STA 50+28 - 50+39 LT
SL STA 50+29 - 51+25 RT
SL STA 60+30 - 60+38 RT
SL STA 60+32 - 60+40 LT
SL STA 70+30 - 70+55 LT
SL STA 70+31 - 70+55 RT
STA 123+25 - 123+54 RT
STA 123+25 - 125+42 LT
STA 123+68 - 124+80 RT
STA 125+25 - 125+42 RT
STA 125+48 - 125+79 LT
STA 129+00 LT - SL STA 70+27 RT

RESETTING RAILING

STA 123+41 LT
STA 125+35 RT - SL STA 50+35 LT
STA. 127+30 - 127+87 RT (8 RAILINGS)

SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH)

STA 123+49 - 123+73 RT
STA 125+75 - 126+08 LT
STA 126+33 - 126+66 LT
STA 129+38 - 129+63 LT
SL STA 61+13 - 61+45 LT

SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 5 INCH)

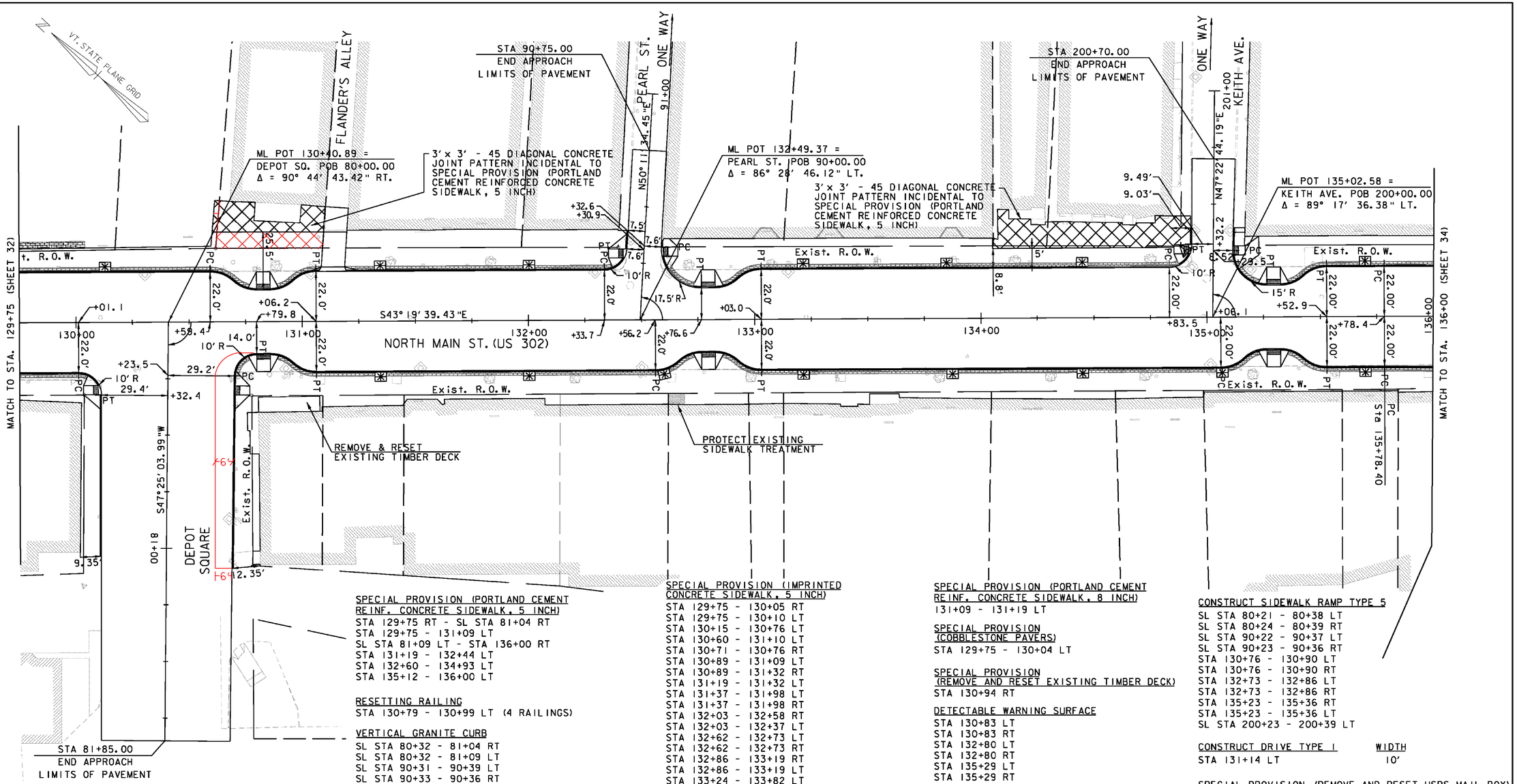
STA 123+25 - 123+49 RT
STA 123+25 - 125+75 LT
STA 123+73 - SL STA 51+25 RT
SL STA 50+39 LT - STA 126+98 RT
STA 126+08 - 126+33 LT
STA 126+66 - SL STA 61+13 LT
SL STA 61+45 - 61+65 LT
STA 127+20 - 129+75 RT
SL STA 60+38 RT - SL STA 70+55 LT
SL STA 70+55 RT - STA 129+38 LT
STA 129+63 - 129+75 LT

* PROVIDE AN EXPANSION JOINT IN ALL NEW SIDEWALK ON THE EXISTING RIGHT-OF-WAY

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #3	SHEET 32 OF 339



SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 5 INCH)
STA 129+75 RT - SL STA 81+04 RT
STA 129+75 - 131+09 LT
SL STA 81+09 LT - STA 136+00 RT
STA 131+19 - 132+44 LT
STA 132+60 - 134+93 LT
STA 135+12 - 136+00 LT

RESETTING RAILING
STA 130+79 - 130+99 LT (4 RAILINGS)

VERTICAL GRANITE CURB
SL STA 80+32 - 81+04 RT
SL STA 80+32 - 81+09 LT
SL STA 90+31 - 90+39 LT
SL STA 90+33 - 90+36 RT
STA 129+75 - 130+10 RT
STA 129+75 - 130+80 LT
STA 130+70 - 130+80 RT
STA 130+86 - 131+07 LT
STA 130+86 - 132+77 RT
STA 131+20 - 132+43 LT
STA 132+59 - 132+77 LT
STA 132+83 - 135+26 RT
STA 132+83 - 134+93 LT
STA 135+12 - 135+26 LT
STA 135+32 - 136+00 LT
STA 135+32 - 136+00 RT
SL STA 200+31 - 200+40 RT
SL STA 200+32 - 200+39 LT

SPECIAL PROVISION (IMPRINTED CONCRETE SIDEWALK, 5 INCH)
STA 129+75 - 130+05 RT
STA 129+75 - 130+10 LT
STA 130+15 - 130+76 LT
STA 130+60 - 131+10 LT
STA 130+71 - 130+76 RT
STA 130+89 - 131+09 LT
STA 130+89 - 131+32 RT
STA 131+19 - 131+32 LT
STA 131+37 - 131+98 LT
STA 131+37 - 131+98 RT
STA 132+03 - 132+58 RT
STA 132+03 - 132+37 LT
STA 132+62 - 132+73 LT
STA 132+62 - 132+73 RT
STA 132+86 - 133+19 RT
STA 132+86 - 133+19 LT
STA 133+24 - 133+82 LT
STA 133+24 - 133+85 RT
STA 133+87 - 134+42 LT
STA 133+90 - 134+42 RT
STA 134+05 - 134+94 LT
STA 134+47 - 134+88 LT
STA 134+47 - 135+04 RT
STA 135+06 - 135+23 RT
STA 135+14 - 135+23 LT
STA 135+36 - 135+67 LT
STA 135+36 - 135+67 RT
STA 135+72 - 136+00 LT
STA 135+72 - 136+00 RT

SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH)
131+09 - 131+19 LT

SPECIAL PROVISION (COBBLESTONE PAVERS)
STA 129+75 - 130+04 LT

SPECIAL PROVISION (REMOVE AND RESET EXISTING TIMBER DECK)
STA 130+94 RT

DETECTABLE WARNING SURFACE
STA 130+83 LT
STA 130+83 RT
STA 132+80 LT
STA 132+80 RT
STA 135+29 LT
STA 135+29 RT
SL STA 80+30 LT
SL STA 80+30 RT
SL STA 90+29 LT
SL STA 90+31 RT
SL STA 200+29 RT
SL STA 200+30 LT

* PROVIDE AN EXPANSION JOINT IN ALL NEW SIDEWALK ON THE EXISTING RIGHT-OF-WAY LINE

20 0 20 40
FEET

CONSTRUCT SIDEWALK RAMP TYPE 5
SL STA 80+21 - 80+38 LT
SL STA 80+24 - 80+39 RT
SL STA 90+22 - 90+37 LT
SL STA 90+23 - 90+36 RT
STA 130+76 - 130+90 LT
STA 130+76 - 130+90 RT
STA 132+73 - 132+86 LT
STA 132+73 - 132+86 RT
STA 135+23 - 135+36 RT
STA 135+23 - 135+36 LT
SL STA 200+23 - 200+39 LT

CONSTRUCT DRIVE TYPE 1	WIDTH
STA 131+14 LT	10'

SPECIAL PROVISION (REMOVE AND RESET USPS MAIL BOX)
STA 131+00 RT
STA 133+75 RT
STA 135+25 LT

CONSTRUCT SIDEWALK RAMP TYPE 6
SL STA 200+21 - 200+37 RT

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr_nu_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #4
SHEET 33 OF 339

CONSTRUCT SIDEWALK RAMP TYPE 5
STA 136+89 - 137+03 RT
STA 136+89 - 137+03 LT
STA 500+43 - 500+60 RT
STA 602+44 - 602+61 RT
STA 700+37 - 700+52 LT

CONSTRUCT SIDEWALK RAMP TYPE 6
STA 139+60 - 139+78 RT

CONSTRUCT DRIVE TYPE 1 — WIDTH
STA 136+71 LT — 14'

VT. STATE PLANE GRID

MATCH TO STA. 701+50 (SHEET 42)

ELM STREET

MATCH TO STA. 140+25 (SHEET 35)

ML POT 139+19.56 =
ELM ST. POB 700+00.00
Δ = 109° 04' 08.40" LT.

ML POC 139+01.46 =
N. MAIN POB 600+00.00
Δ = 75° 00' 53.16" RT.

CURVE DATA #3
Δ = 14°56'36.55" L
D = 16°22'12.80"
R = 350.00'
T = 45.90'
L = 91.28'
E = 3.00'
BANK = NC

STA 138+60.00
END PROJECT
BEGIN APPROACH

(CURVE DATA #2
Δ = 2°28'31.53" R
D = 2°51'53.24"
R = 2000.00'
T = 43.21'
L = 86.41'
E = 0.47'
BANK = NC

WASHINGTON ST.

MATCH TO STA. 801+39 (SHEET 35)

CHURCH ST.
ONE WAY

STA 800+65.00
END APPROACH
LIMITS OF PAVEMENT

NORTH MAIN ST. (US 302)

NORTH MAIN ST.

SOUTH MAIN ST.

MATCH TO STA. 136+00 (SHEET 33)

MATCH TO STA. 603+75 (SHEET 35)

MATCH TO STA. 501+35 (SHEET 43)

PROSPECT ST.

Exist. R.O.W.

CURVE DATA #NM1
Δ = 21°38'40.06" L
D = 28°38'52" (1)
R = 200.00' (1)
T = 38.23' (1)
L = 75.55' (1)
E = 3.62'
BANK = NC

CURVE DATA #NM2
Δ = 11°16'02.68" L
D = 14°19'26" (2)
R = 400.00' (2)
T = 39.46' (2)
L = 78.66' (2)
E = 1.94
BANK = NC

STA 138+35.00
END PROJECT
BEGIN APPROACH

N. MAIN POT 602+74.81 =
CHURCH POB 800+00.00
Δ = 80° 32' 46.75" LT.

N. MAIN POT 602+94.23 =
PROSPECT POB 500+00.00
Δ = 90° 01' 19.76" RT.

1. PROVIDE AN EXPANSION JOINT IN ALL NEW SIDEWALK ON THE EXISTING RIGHT-OF-WAY.
2. SEE CURBED ISLAND DETAILS FOR ADDITIONAL INFORMATION ON MEDIAN ISLAND LAYOUT.

SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 5 INCH)
STA 136+00 - 136+60 LT
STA 136+00 - SL STA 500+60 RT
STA 136+83 - SL STA 700+65 LT
STA 139+80 RT - SL STA 600+98 LT

SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH)
STA 136+60 - 136+83 LT

SPECIAL PROVISION (REMOVE AND RESET USPS MAIL BOX)
STA 138+60 LT

VERTICAL GRANITE CURB
STA 136+00 - 136+63 LT
STA 136+00 - 136+93 RT
STA 136+80 - 136+93 LT
STA 136+99 - SL STA 700+42 LT
STA 136+99 RT - SL STA 602+51 RT
STA 138+33 - 138+82 RT (CURBED ISLAND)
STA 139+66 RT - SL STA 600+98 LT
STA 139+71 - 139+80 RT
SL STA 500+26 - 500+49 RT
SL STA 500+53 - 500+60 RT
SL STA 600+45 - 601+24 RT (CURBED ISLAND)
SL STA 700+46 - 700+65 LT

DETECTABLE WARNING SURFACE
STA 136+96 LT
STA 136+96 RT
STA 139+69 RT
SL STA 500+51 RT
SL STA 602+53 RT
SL STA 700+44 LT

SPECIAL PROVISION (COBBLESTONE PAVERS)
SL STA 600+45 - 601+23 RT (ISLAND)

SPECIAL PROVISION (IMPRINTED CONCRETE SIDEWALK, 5 INCH)
STA 136+00 - 136+14 LT
STA 136+00 - 136+20 RT
STA 136+19 - 136+60 LT
STA 136+25 - 136+91 RT
STA 136+83 - 136+91 LT
STA 137+00 - 137+31 RT
STA 137+03 - 137+32 LT
STA 137+36 - 137+90 RT
STA 137+37 - 138+08 LT
STA 137+93 - 138+37 RT
STA 138+13 - 138+83 LT
SL STA 500+29 - 500+42 RT
SL STA 600+36 - 600+86 RT
SL STA 600+88 - 601+39 RT
SL STA 601+44 - 602+48 RT

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #5	SHEET 34 OF 339

MATCH TO STA. 140+25 (SHEET 34)

PC Sta 141+01.97

141+00

STA 141+00.00
END APPROACH
LIMITS OF PAVEMENT

PT Sta 141+84.67

P.I (CURVE #W1) Sta 141+43.34

CURVE DATA #W1
D = 5°43'46"
R = 1000.00'
T = 41.37'
L = 82.70'
E = 0.86'
BANK = NC

142+00

WASHINGTON ST.

CURVE DATA #W2
Δ = 20°04'19.44" R
D = 71°37'11.01"
R = 80.00'
T = 14.16'
L = 28.03'
E = 1.24'
BANK = NC

VT. STATE PLANE GRID

MATCH TO STA. 801+39 (SHEET 34)

CHURCH ST.

802+00

Sta 801+82.08 PC

803+00

P.I (CURVE #C1) Sta 803+05.50

S60°32'01.94"E

143+00

CURVE DATA #C1
Δ = 27°43'54.55" R
D = 11°27'32.96"
R = 500.00'
T = 123.42'
L = 242.01'
E = 15.01'
BANK = NC

CHURCH ST.

144+00

804+00

P.I (CURVE #W2) Sta 144+04.81

POE Sta 144+50.00

144+50

PC Sta 143+90.66

PT Sta 144+18.68

PT Sta 804+24.08

MATCH TO STA. 603+75 (SHEET 34)

STA 604+25.00
END APPROACH
LIMITS OF PAVEMENT

604+00

S07°39'44.35"E

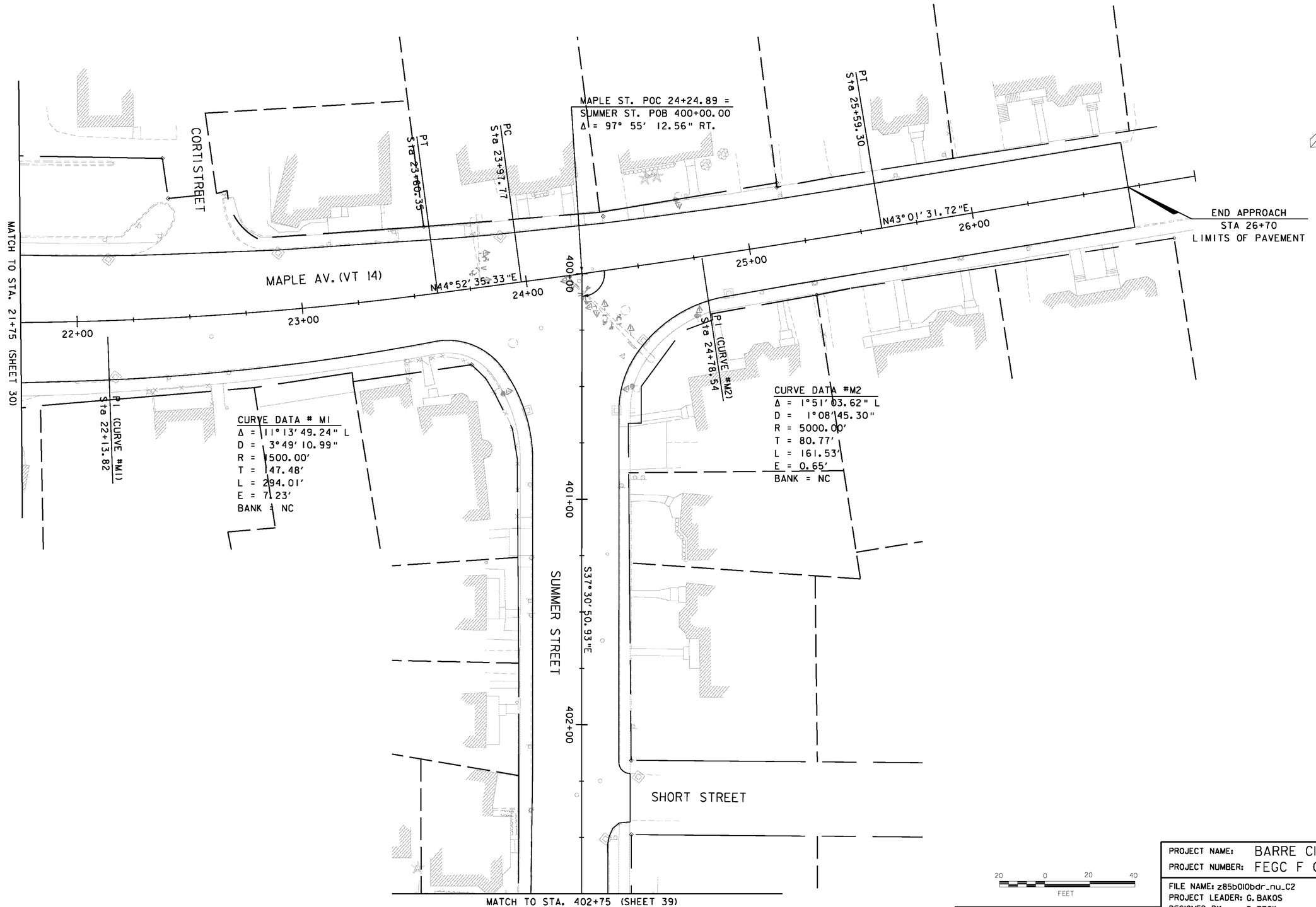
SOUTH MAIN ST.

604+75

20 0 20 40
FEET

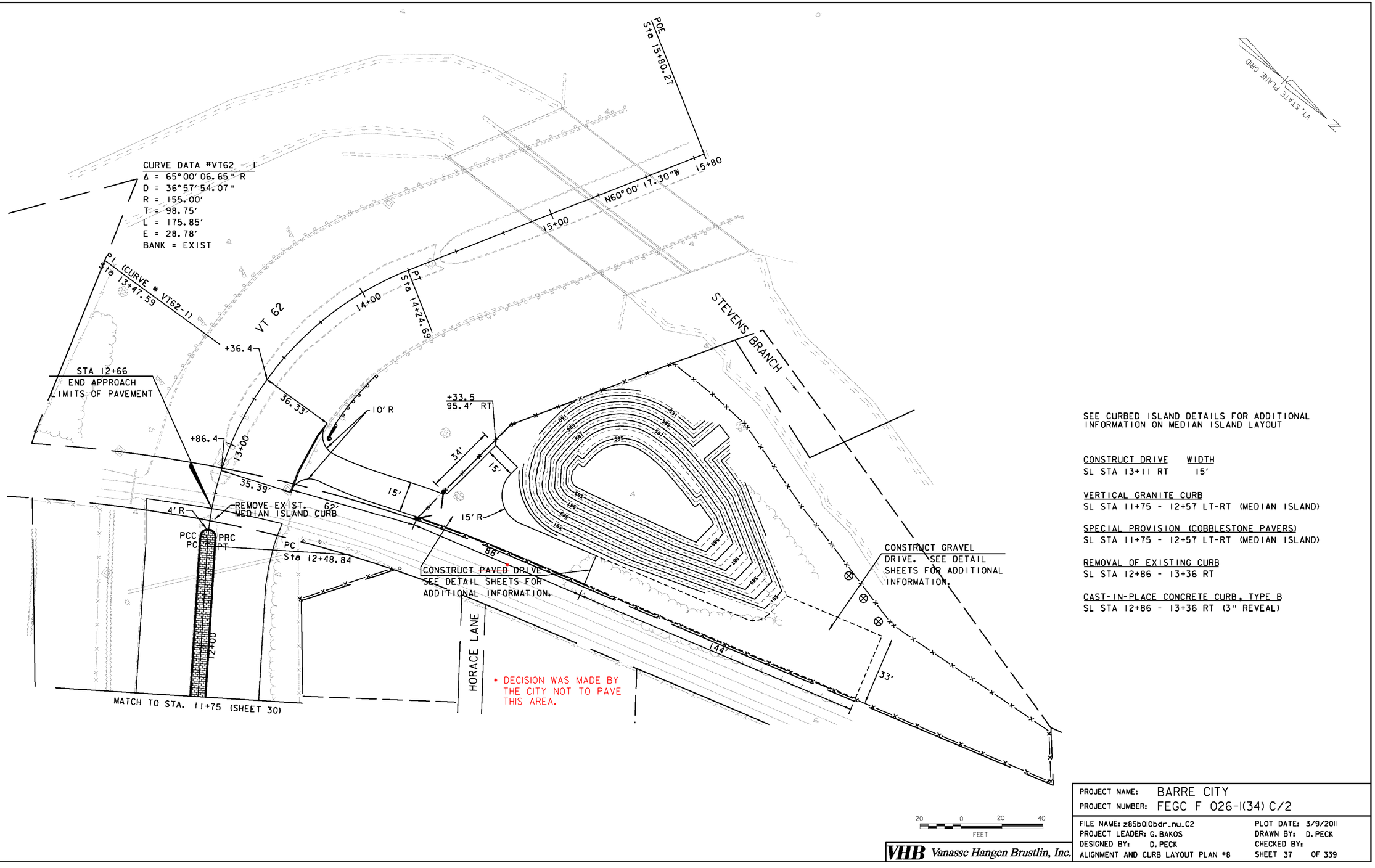
VHB Vanasse Hangen Brustlin, Inc.

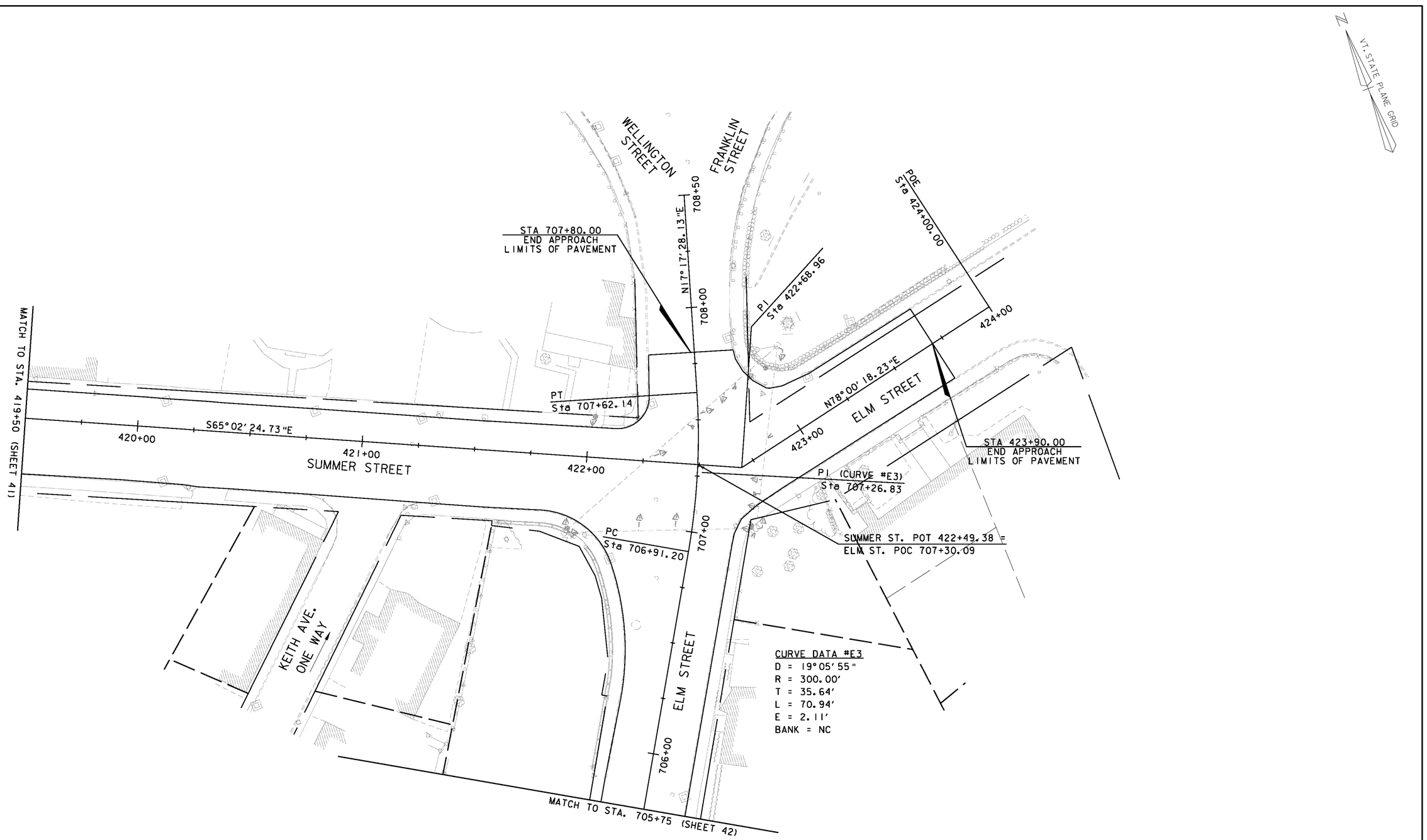
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #6	SHEET 35 OF 339



VHB Vanasse Hangen Brustlin, Inc.

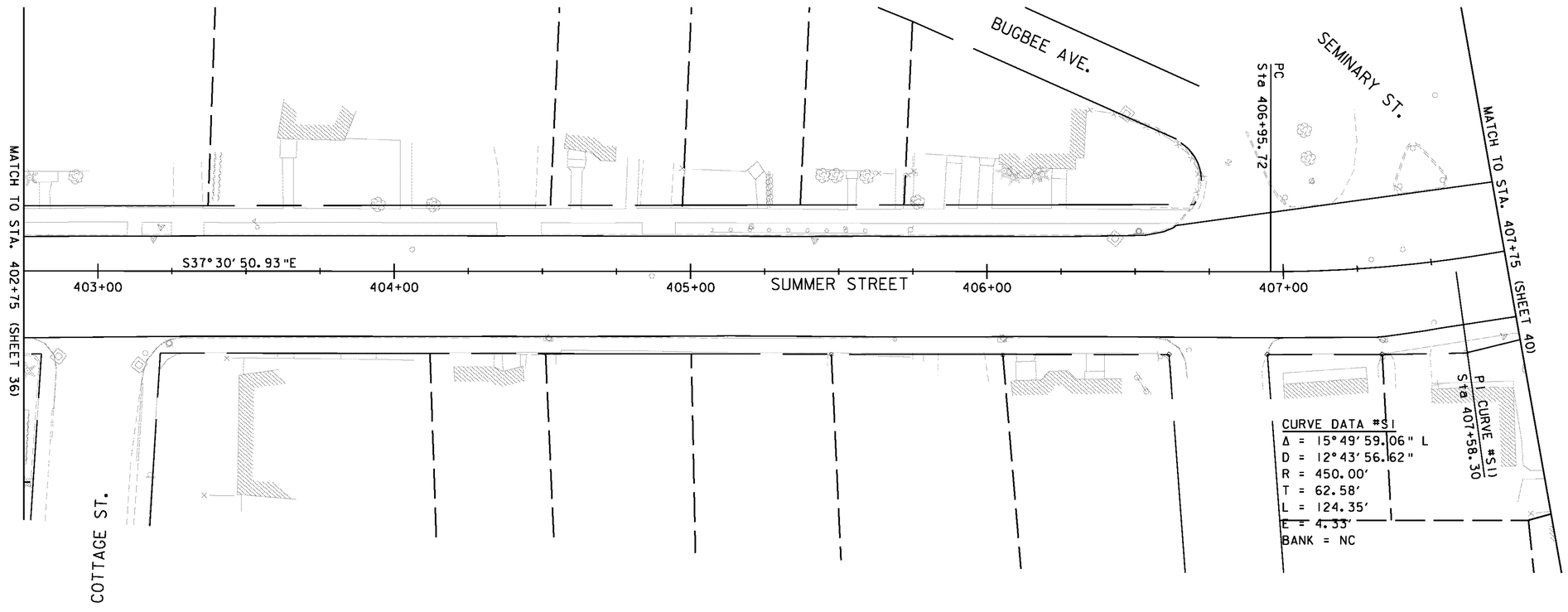
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #7	SHEET 36 OF 339


CURVE DATA #VT62 - 1
Δ = 65°00'06.65" R
D = 36°57'54.07"
R = 155.00'
T = 98.75'
L = 175.85'
E = 28.78'
BANK = EXIST
POE
Sta 15+80.27
N60°00'17.30"W
15+80
15+00
14+00
PT
Sta 14+24.69
PI (CURVE # VT62-1)
Sta 13+47.59
+36.4
VT 62
STA 12+66
END APPROACH
LIMITS OF PAVEMENT
36.33'
10' R
+33.5
95.4' RT
+86.4
13+00
35.39'
34'
15'
15'
15' R
4' R
REMOVE EXIST. 62'
MEDIAN ISLAND CURB
PCC
PC
PRC
PT
PC
Sta 12+48.84
88'
CONSTRUCT PAVED DRIVE
SEE DETAIL SHEETS FOR
ADDITIONAL INFORMATION.
12+00
HORACE LANE
144'
MATCH TO STA. 11+75 (SHEET 30)
• DECISION WAS MADE BY
THE CITY NOT TO PAVE
THIS AREA.
STEVENS BRANCH
CONSTRUCT GRAVEL
DRIVE. SEE DETAIL
SHEETS FOR ADDITIONAL
INFORMATION.
33'
VT. STATE PLANE GRID
N
SEE CURBED ISLAND DETAILS FOR ADDITIONAL INFORMATION ON MEDIAN ISLAND LAYOUT
CONSTRUCT DRIVE WIDTH
SL STA 13+11 RT 15'
VERTICAL GRANITE CURB
SL STA 11+75 - 12+57 LT-RT (MEDIAN ISLAND)
SPECIAL PROVISION (COBBLESTONE PAVERS)
SL STA 11+75 - 12+57 LT-RT (MEDIAN ISLAND)
REMOVAL OF EXISTING CURB
SL STA 12+86 - 13+36 RT
CAST-IN-PLACE CONCRETE CURB, TYPE B
SL STA 12+86 - 13+36 RT (3" REVEAL)
20 0 20 40
FEET
VHB Vanasse Hangen Brustlin, Inc.
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_nu_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ALIGNMENT AND CURB LAYOUT PLAN #8
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 37 OF 339



VHB Vanasse Hangen Brustlin, Inc.

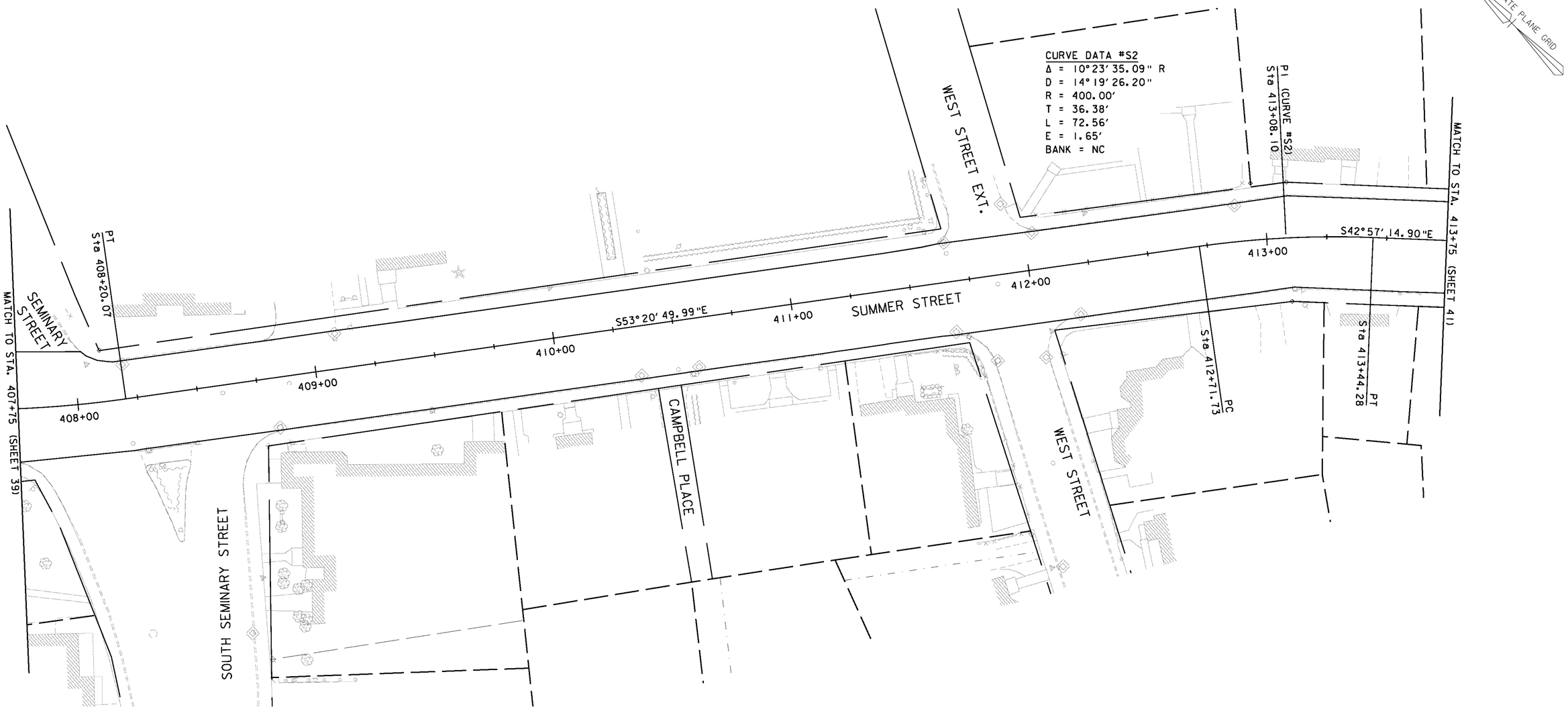
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #9	SHEET 38 OF 339



20 0 20 40
FEET

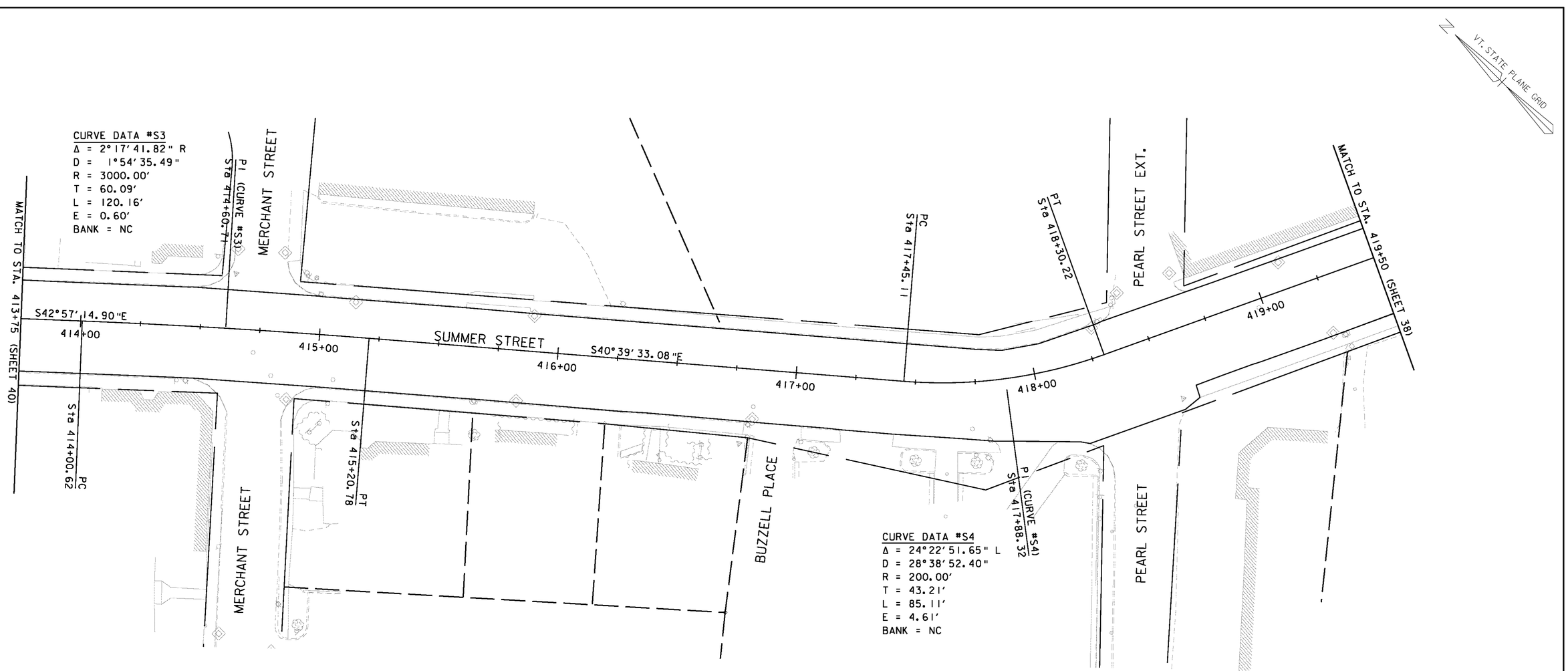
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #10	SHEET 39 OF 339



VHB Vanasse Hangen Brustlin, Inc.

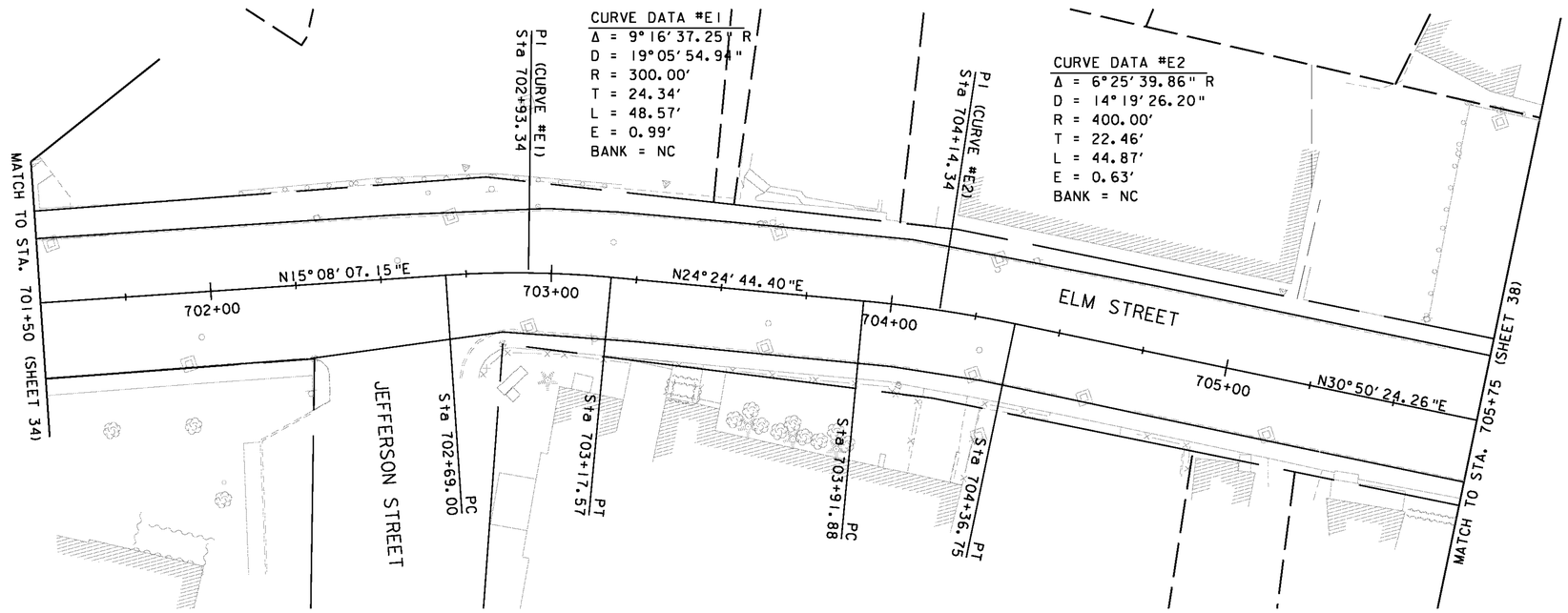
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #11	SHEET 40 OF 339



20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

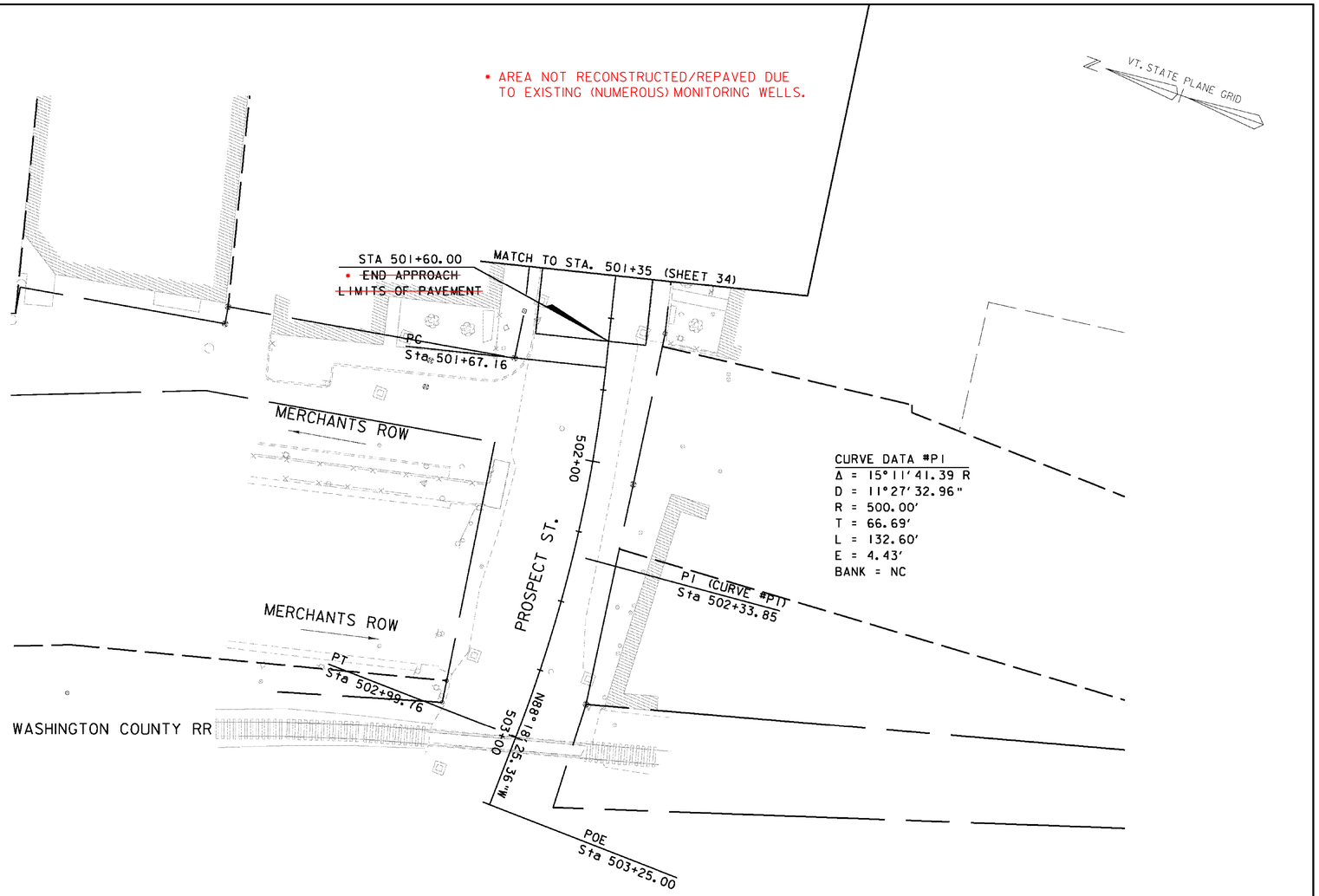
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b0101bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #12	SHEET 41 OF 339



20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

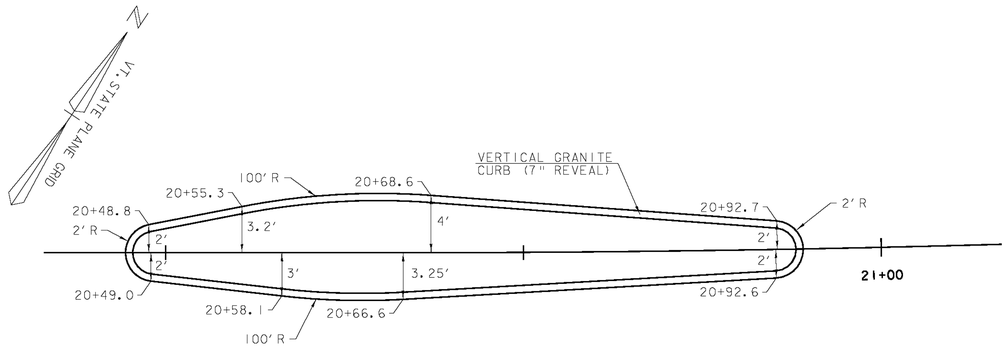
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #13	SHEET 42 OF 339



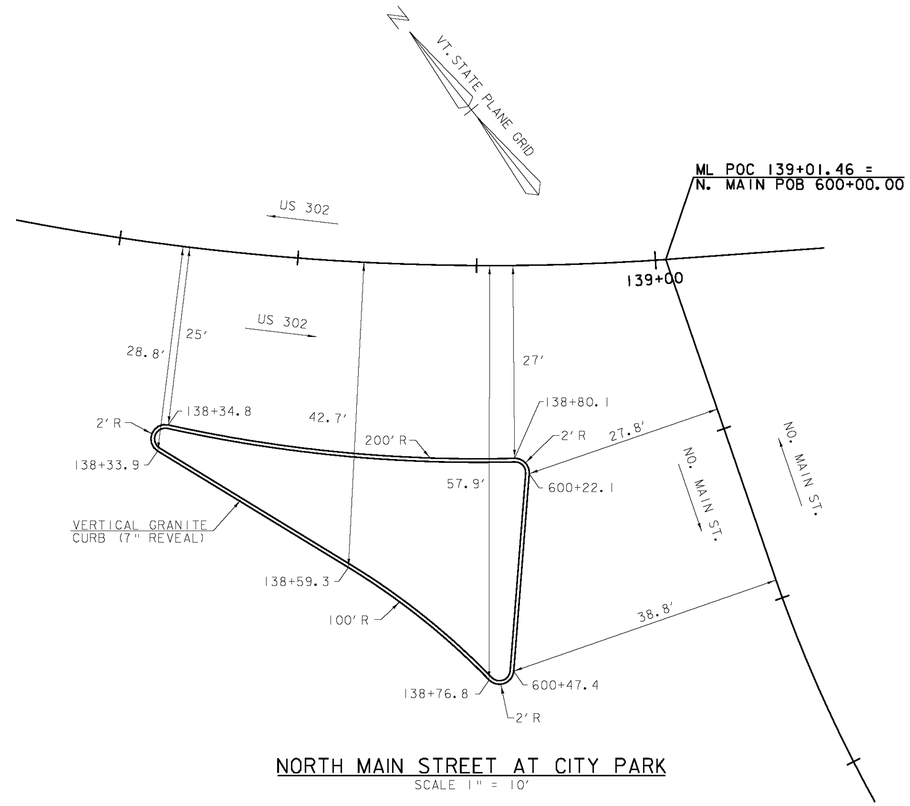
20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

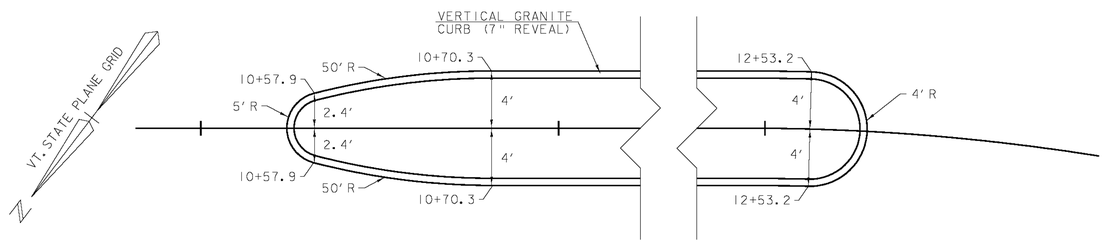
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b0l0bdr_nu_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ALIGNMENT AND CURB LAYOUT PLAN #14	SHEET 43 OF 339



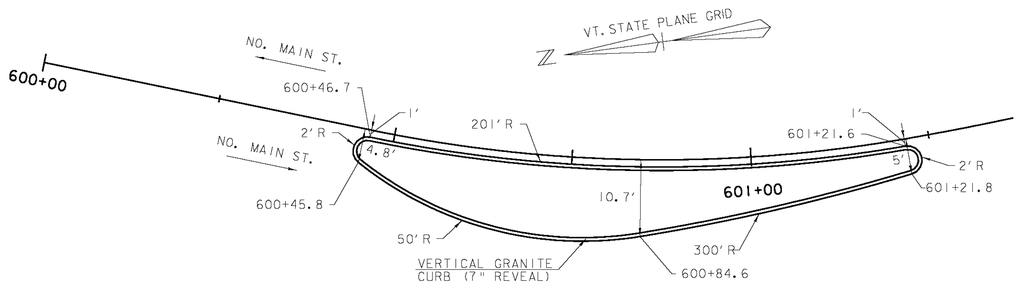
MAPLE AVENUE
SCALE 1" = 10'



NORTH MAIN STREET AT CITY PARK
SCALE 1" = 10'



VT ROUTE 62
SCALE 1" = 5'



VT 14 AT CITY PARK
SCALE 1" = 10'

CURBED ISLAND DETAILS

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_DET_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CURBED ISLAND DETAILS	SHEET 44 OF 339

VHB Vanasse Hangen Brustlin, Inc.

NOTE:

SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-301
SHEET 1 of 1
DATE STARTED: 6/01/09
DATE COMPLETED: 6/01/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 113+35.90
OFFSET: -45.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 593.61 ft
GROUNDWATER DEPTH: 10.5 ft 6/01/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-4, SiSa. brn, Moist, Rec. = 1.4 ft	6	24.2	1.3	52.2	46.5
		A-4, SaSi. gry, MTW, Rec. = 1.5 ft	2	46.3	0.0	38.6	61.4
10		A-4, Si with Little Organics (11.9%). gry, MTW, Rec. = 1.8 ft	1	68.2	0.2	16.0	83.8
		A-4, SaSi. gry, MTW, Rec. = 1.7 ft	3	34.9	2.5	38.8	58.7
		A-1-b, SaGr. gry, Wet, Rec. = 0.8 ft	12	24.0	41.4	39.8	18.8
		A-1-b, GrSa, gry, Wet, Rec. = 0.9 ft	10	26.1	21.3	64.2	14.5
15		A-2-4, Sa. brn, Wet, Rec. = 1.4 ft	1	31.6	3.0	78.8	18.2
20		A-2-4, SiSa, brn, Wet. Rec. = 1.2 ft	1	33.9	3.7	70.7	25.6
		A-2-4, SiSa, brn, Wet. Rec. = 1.2 ft	3	27.1	1.2	73.6	25.2
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VTAOT GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-302
SHEET 1 of 1
DATE STARTED: 6/01/09
DATE COMPLETED: 6/01/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 113+42.40
OFFSET: 57.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 592.84 ft
GROUNDWATER DEPTH: 5.0 ft 6/01/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-4, SiSa, brn, Moist, Rec. = 1.2 ft	3	17.1	3.8	60.3	35.9
		A-2-4, Sa, brn, Wet, Rec. = 1.8 ft	3	26.9	0.2	88.8	11.0
		A-2-4, Sa, brn, Wet, Rec. = 1.2 ft	5	24.8	9.3	79.6	11.1
10		A-1-b, SaGr, blk, Wet, Rec. = 0.9 ft	11	19.8	44.1	40.7	15.2
		A-1-b, GrSa, blk, Wet, Rec. = 0.8 ft	7	24.8	33.5	47.7	18.8
		A-2-4, Sa with pieces of Wood, blk, Wet, Rec. = 1.4 ft	1	35.0	13.0	67.3	19.7
15		A-2-4, SiSa, blk, Wet, Rec. = 1.7 ft	7	30.0	1.3	75.5	23.2
20		A-2-4, Sa, blk, Wet, Rec. = 1.1 ft	16	25.0	13.7	69.2	17.1
		A-2-4, Sa, blk, Wet, Rec. = 1.5 ft	14	19.5	18.9	64.3	16.8
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VTAOT GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-304
SHEET 1 of 1
DATE STARTED: 6/03/09
DATE COMPLETED: 6/03/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 114+55.50
OFFSET: 47.50
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 594.14 ft
GROUNDWATER DEPTH: 13.2 ft 6/03/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-4, SaSi, brn, Moist, Rec. = 1.5 ft	3	21.3	0.4	42.6	57.0
		A-2-4, SiSa, brn, Moist, Rec. = 1.3 ft	4	17.2	0.1	75.1	24.8
		A-2-4, Sa, brn, Wet, Rec. = 1.6 ft	2	29.3	0.0	83.5	16.5
10		A-2-4, Sa, blk-brn, Wet. Rec. = 1.3 ft	3	30.1	1.4	84.4	14.2
		A-1-b, GrSa, blk, Wet, Rec. = 1.1 ft	37	18.2	41.8	48.5	9.7
		A-1-b, GrSa, brn, Wet, Rec. = 2.0 ft	25	12.8	40.3	48.9	10.8
15		Visual Classification, SaGr. brn, Wet, Rec. = 0.9 ft, Sample had oxidized staining with a slight odor of possible septic.	19				
20		A-4, SaSi, gry, Wet, Rec. = 1.0 ft	3	26.8	0.1	28.2	71.7
		A-4, Si, gry. Wet, Rec. = 1.0 ft	7	29.4	0.3	16.6	83.1
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VTAOT GDT 7/31/09

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_TYP_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
BORING LOGS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 45 OF 339

NOTE:

SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-305
SHEET 1 of 1
DATE STARTED: 6/06/09
DATE COMPLETED: 6/08/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 23+80.30
OFFSET: -26.90
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 595.74 ft
GROUNDWATER DEPTH: 10.2 ft 6/08/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		A-2-4, SlSa, brn, Moist, Rec. = 0.7 ft	22	12.0	19.6	59.0	21.4
5		A-4, SaSi, blk, MTW, Rec. = 1.7 ft	3	41.9	0.1	44.7	55.2
		A-2-4, SlSa, blk, MTW, Rec. = 2.0 ft	1	36.4	0.0	67.8	32.2
10		A-2-4, SlSa with Trace of Organics (5.3%), blk, Wet, Rec. = 2.0 ft	1	60.5	0.2	66.3	33.5
		A-2-4, SlGrSa, blk, Wet, Rec. = 0.5 ft	4	38.1	23.0	56.9	20.1
		A-2-4, GrSlSa, blk, Wet, Rec. = 1.1 ft	WH	34.0	22.8	41.9	35.3
15		A-2-4, SlSa, brn, Wet. Rec. = 0.3 ft	4	40.0	0.1	79.8	20.1
20		A-2-4, Sa. brn, Wet, Rec. = 2.0 ft	7	28.3	7.2	78.3	14.5
		A-2-4, Sa. brn, Wet, Rec. = 2.0 ft	17	29.3	3.7	80.6	15.7
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VT AOT.GDT 7/3/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-306
SHEET 1 of 1
DATE STARTED: 6/02/09
DATE COMPLETED: 6/02/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 24+45.10
OFFSET: 34.50
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 596.19 ft
GROUNDWATER DEPTH: 8.1 ft 6/02/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft	9	6.9	38.5	44.6	16.9
5		A-4, SlSa, blk, Moist. Rec. = 1.6 ft	3	44.4	8.7	47.4	43.9
		A-4, SlSa, blk, MTW. Rec. = 1.3 ft	4	25.9	2.4	52.7	44.9
10		A-2-4, SlSa, blk, Wet, Rec. = 1.0 ft	3	33.8	0.8	65.7	33.5
		A-2-4, GrSa, blk, Wet, Rec. = 1.1 ft	8	26.3	25.8	59.6	14.6
		A-2-4, SlSa, blk, Wet, Rec. = 1.4 ft	3	34.7	11.4	56.0	32.6
15		A-2-4, SlSa, blk, Wet, Rec. = 0.4 ft	1	69.7	4.8	70.6	24.8
20		A-1-b, Sa, brn, Wet, Rec. = 2.0 ft	38	16.4	19.6	71.3	9.1
		A-2-4, Sa, brn, Wet, Rec. = 1.8 ft	25	20.3	19.8	61.8	18.4
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VT AOT.GDT 7/3/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-307
SHEET 1 of 1
DATE STARTED: 6/04/09
DATE COMPLETED: 6/04/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 138+72.80
OFFSET: 36.50
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 606.47 ft
GROUNDWATER DEPTH: 13.2 ft 6/04/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		A-4, SaSi, blk, Moist, Rec. = 1.5 ft	18	13.2	15.7	39.3	45.0
5		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft	20	6.3	41.5	43.6	14.9
		A-1-b, GrSa, brn, Moist, Rec. = 1.2 ft, Broken Granite pieces were within sample.	21	5.4	42.5	44.7	12.8
10		A-4, Si, gry, MTW, Rec. = 1.1 ft	10	24.6	1.2	9.9	88.9
		A-4, Si, brn, MTW, Rec. = 1.0 ft	11	27.4	2.6	10.0	87.4
		A-4, Si, brn, Wet, Rec. = 1.1 ft	13	25.7	3.7	15.2	81.1
15		A-4, SlSa, brn. Wet, Rec. = 1.7 ft	15	22.4	6.0	51.6	42.4
20		A-1-b, GrSa, brn, Wet, Rec. = 2.0 ft	29	12.8	37.2	52.5	10.3
		A-2-4, Sa, brn. Wet, Rec. = 2.0 ft	36	16.5	15.4	65.5	19.1
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VT AOT.GDT 7/3/09

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_TYP_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
BORING LOGS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 46 OF 339

NOTE:

SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-308
SHEET 1 of 1
DATE STARTED: 6/09/09
DATE COMPLETED: 6/09/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 139+47.70
OFFSET: -35.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 608.4 ft
GROUNDWATER DEPTH: 15.5 ft 6/09/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-1-b, SlGrSa, blk, Moist, Rec. = 1.1 ft	10	9.7	30.8	49.0	20.2
		A-1-b, GrSa, blk, Moist, Rec. = 1.0 ft	9	10.7	32.1	51.5	16.4
		A-4, Si, brn, MTW, Rec. = 1.2 ft	8	31.1	0.5	5.5	94.0
10		A-4, Si, brn, MTW, Rec. = 1.4 ft	7	29.8	1.6	6.8	91.6
		A-4, Si, gry, MTW, Rec. = 1.4 ft	5	31.7	3.3	7.5	89.2
		A-4, Si, gry, MTW, Rec. = 1.6 ft	6	29.3	6.6	6.4	87.0
15		A-4, Si, gry, MTW, Rec. = 1.2 ft	6	30.7	3.7	5.2	91.1
20		A-4, Si, gry, MTW, Rec. = 1.4 ft	8	28.4	0.0	10.0	90.0
		A-2-4, Sa, gry, Wet, Rec. = 2.0 ft	4	19.3	3.5	79.7	16.8
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34).GPJ VT ACT.GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-309
SHEET 1 of 1
DATE STARTED: 6/16/09
DATE COMPLETED: 6/16/09

PROJECT NAME: BARRE CITY
SITE NAME: US 302
STATION: 600+79.10
OFFSET: 55.60
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 605.82 ft
GROUNDWATER DEPTH: 12.9 ft 6/16/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-2-4, SlSa, blk, Moist, Rec. = 1.4 ft	6	14.9	4.5	66.3	29.2
		A-4, GrSlSa, blk, Moist, Rec. = 1.1 ft	23	13.5	21.4	41.3	37.3
		Visual Classification, GrSa, blk, Moist, Rec. = 0.4 ft, Insufficient sample for testing.	26				
10		A-1-b, GrSa, blk, Moist, Rec. = 0.9 ft	12	7.5	39.3	45.4	15.3
		A-1-b, GrSa, blk, MTW, Rec. = 1.1 ft	5	16.2	23.0	60.3	16.7
		A-1-b, GrSa, blk, Wet, Rec. = 1.6 ft	11	20.3	20.8	64.6	14.6
15		A-1-b, GrSa, blk, Wet, Rec. = 1.3 ft	20	17.2	39.0	53.0	8.0
20		A-1-b, GrSa, blk, Wet, Rec. = 1.4 ft	44	19.1	32.3	55.0	12.7
		A-1-b, GrSa, blk, Wet, Rec. = 1.8 ft	26	14.6	38.3	49.3	12.4
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

DRILLER'S NOTES:
1. Duplex drilling 11.0 ft to 17.0 ft.

LOG OF BORING BARRE CITY FEGC F 026-1(34).GPJ VT ACT.GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-310
SHEET 1 of 1
DATE STARTED: 6/10/09
DATE COMPLETED: 6/10/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 602+52.00
OFFSET: -40.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 608.78 ft
GROUNDWATER DEPTH: 16.2 ft 6/10/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-1-b, SlGrSa, blk, Moist, Rec. = 1.1 ft	17	13.4	25.3	49.9	24.8
		A-1-b, GrSa, blk, Moist, Rec. = 1.2 ft	18	9.8	32.5	48.5	19.0
		A-1-b, SlGrSa, blk, Moist, Rec. = 1.1 ft	15	6.9	39.3	39.7	21.0
10		A-1-b, SlSaGr, blk, Moist, Rec. = 1.0 ft	19	7.1	48.6	31.3	20.1
		A-1-a, SaGr, blk, Moist, Rec. = 1.3 ft	71	5.4	55.4	31.1	13.5
		A-1-b, SaGr, blk, MTW, Rec. = 1.2 ft	14	7.7	49.0	36.1	14.9
15		A-1-a, SaGr, blk, Wet, Rec. = 0.6 ft	11	15.0	59.9	28.0	12.1
20		A-1-b, Sa, brn, Wet, Rec. = 1.0 ft	46	21.2	17.7	66.8	15.5
		Hole stopped @ 22.0 ft					
25							
30							
35							
40							
45							

DRILLER'S NOTES:
1. Could not penetrate further.

LOG OF BORING BARRE CITY FEGC F 026-1(34).GPJ VT ACT.GDT 7/31/09

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_TYP_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
BORING LOGS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 47 OF 339

NOTE:

SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-311
SHEET 1 of 1
DATE STARTED: 6/10/09
DATE COMPLETED: 6/10/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 603+37.20
OFFSET: 29.50
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 609.99 ft
GROUNDWATER DEPTH: 16.5 ft 6/10/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		Field Note:, No Recovery. Appears to be sand	15				
5		A-2-4, SlSa, Dk/brn, Moist, Rec. = 1.4 ft	4	17.7	6.5	66.9	26.6
		A-2-4, SlSa, Dk/brn, Moist, Rec. = 1.5 ft	4	12.9	0.7	65.8	33.5
10		A-4, SaSl, brn, Moist, Rec. = 1.6 ft	6	21.6	0.0	49.3	50.7
		A-3, Sa, brn, Moist, Rec. = 1.5 ft	6	10.2	0.7	89.9	9.4
		A-2-4, SlGrSa, blk, MTW, Rec. = 1.2 ft	4	18.9	25.1	53.7	21.2
15		A-1-b, SlGrSa, blk, MTW, Rec. = 1.2 ft	16	11.9	34.5	44.7	20.8
20		A-1-b, SlGrSa, brn, Wet, Rec. = 1.6 ft	20	18.9	39.7	39.8	20.5
		A-1-b, GrSa, brn, Wet, Rec. = 1.7 ft	22	16.9	37.8	46.4	15.8
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) OPJ VT AOT GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-312
SHEET 1 of 1
DATE STARTED: 6/02/09
DATE COMPLETED: 6/02/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 112+12.60
OFFSET: 37.50
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 593.97 ft
GROUNDWATER DEPTH: 13.8 ft 6/02/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-2-4, GrSa, brn, Moist, Rec. = 1.3 ft	8	7.2	26.8	58.5	14.7
		A-4, SaSl, brn, Moist, Rec. = 1.5 ft	4	31.2	0.4	25.7	73.9
		A-4, SaSl, blk, Moist, Rec. = 1.7 ft	4	34.6	1.9	41.6	56.5
10		A-4, SaSl, gry, MTW, Rec. = 1.7 ft	3	32.7	0.2	29.0	70.8
		A-4, SlSa, gry, MTW, Rec. = 1.5 ft, Wood pieces were within sample.	7	31.6	1.0	62.1	36.9
		A-2-4, GrSa, blk, Wet, Rec. = 1.5 ft	12	25.1	20.6	64.4	15.0
15		No Recovery, 15.0 ft - 17.0 ft	14				
20		A-2-4, Sa, brn, Wet, Rec. = 1.7 ft	2	30.6	4.7	82.5	12.8
		A-2-4, SlSa, brn, Wet, Rec. = 1.6 ft	WH	20.7	2.1	65.2	32.7
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VT AOT GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-313
SHEET 1 of 1
DATE STARTED: 6/03/09
DATE COMPLETED: 6/03/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 11+49.70
OFFSET: -37.30
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 593.2 ft
GROUNDWATER DEPTH: 13.0 ft 6/03/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-4, SaSi, brn, Moist, Rec. = 1.5 ft	4	23.9	0.3	35.2	64.5
		A-2-4, SlSa, brn, Moist, Rec. = 1.3 ft	4	18.5	0.0	78.9	21.1
		A-2-4, GrSa, brn, Wet, Rec. = 1.2 ft	6	18.7	26.6	58.1	15.3
10		A-1-b, SaGr, brn, Wet, Rec. = 1.1 ft	31	16.3	41.7	39.8	18.5
		A-1-b, GrSa, blk, Wet, Rec. = 1.7 ft	13	17.9	32.0	56.5	11.5
		A-2-4, SlSa, brn, Wet, Rec. = 2.0 ft	6	28.9	2.9	63.7	33.4
15		A-4, Si, gry, Wet, Rec. = 1.3 ft	5	31.0	1.3	12.5	86.2
20		A-4, SaSi, gry, Wet, Rec. = 1.4 ft	2	30.2	0.0	36.2	63.8
		A-4, SlSa, gry, Wet, Rec. = 0.9 ft	2	28.5	0.6	55.8	43.6
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VT AOT GDT 7/31/09

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85B010_TYP_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
BORING LOGS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 48 OF 339

NOTE:

SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-314
SHEET 1 of 1
DATE STARTED: 5/27/09
DATE COMPLETED: 5/29/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 21+66.00
OFFSET: -37.90
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 593.44 ft
GROUNDWATER DEPTH: 4.9 ft 5/27/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-4, SaSl, Dk/brn, Moist, Rec. = 1.8 ft	4	35.4	2.2	25.8	71.0
		A-2-4, SlSa, gry. MTW, Rec. = 1.5 ft	WH	26.7	0.0	74.7	25.3
		A-1-b, GrSa, gry-brn, Wet, Rec. = 0.9 ft	2	24.0	23.7	66.7	9.6
10		A-1-b, GrSa, brn, Wet, Rec. = 0.6 ft	4	23.3	22.3	66.1	11.6
		A-1-a, SaGr, brn, Wet, Rec. = 0.9 ft	16	15.3	54.5	36.1	9.4
		A-2-4, Sa, brn, Wet. Rec. = 1.3 ft	8	25.5	17.8	66.7	15.5
15		A-2-4, SlSa, brn, Wet, Rec. = 0.8 ft	10	31.5	0.4	73.1	26.5
20		A-4, SlSa, brn, Wet. Rec. = 1.0 ft	5	29.0	3.1	50.8	46.1
		A-2-4, Sa, brn, Wet, Rec. = 2.0 ft	1	28.7	0.2	82.1	17.7
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VT AOT GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-315
SHEET 1 of 1
DATE STARTED: 6/09/09
DATE COMPLETED: 6/09/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 137+63.20
OFFSET: -26.60
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 604.28 ft
GROUNDWATER DEPTH: 12.0 ft 6/09/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-2-4, SlSa, brn, Moist, Rec. = 0.4 ft	9	10.9	6.4	61.5	32.1
		A-4, SlSa, brn, Moist, Rec. = 1.2 ft	5	13.6	2.9	57.2	39.9
		A-2-4, GrSa, brn, Moist, Rec. = 1.1 ft	6	7.2	24.0	62.8	13.2
10		A-1-b, SaGr, brn, Moist, Rec. = 1.0 ft	8	11.0	54.7	28.5	16.8
		A-2-4, GrSa. brn, MTW, Rec. = 1.2 ft	13	18.6	27.2	57.5	15.3
		A-1-b, SiGrSa, brn, Wet, Rec. = 1.3 ft	7	27.3	28.0	50.7	21.3
15		A-2-4, Sa, brn, Wet, Rec. = 1.2 ft	5	25.3	14.7	72.0	13.3
20		A-1-b, Sa, brn, Wet, Rec. = 2.0 ft	9	19.2	19.9	70.4	9.7
		A-1-b, Sa, brn, Wet, Rec. = 2.0 ft	7	19.5	2.3	89.3	8.4
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VT AOT GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-316
SHEET 1 of 1
DATE STARTED: 6/11/09
DATE COMPLETED: 6/11/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 137+56.00
OFFSET: 33.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 603.39 ft
GROUNDWATER DEPTH: 11.2 ft 6/11/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-2-4, SlSa, blk, Moist, Rec. = 1.1 ft	6	12.9	19.3	51.6	29.1
		A-1-b, SlGrSa, blk, Moist, Rec. = 0.7 ft	6	8.0	28.9	49.2	21.9
		A-4, SlSa, blk, MTW, Rec. = 1.8 ft, Decayed Wood was within sample.	4	36.6	6.0	47.6	46.4
10		A-2-4, SlSa, blk, Wet, Rec. = 2.0 ft, Decayed Wood was within sample.	2	37.6	1.4	68.3	30.3
		A-4, SlSa, blk, Wet, Rec. = 1.0 ft	13	30.3	3.1	58.4	40.5
		A-2-4, GrSlSa, blk, Wet, Rec. = 1.6 ft	34	27.8	23.2	47.2	29.6
15		A-2-4, SlSa, blk, Wet. Rec. = 1.4 ft	6	24.3	4.6	70.3	24.9
20		A-2-4, Sa, blk, Wet, Rec. = 2.0 ft	4	18.2	13.3	67.9	18.8
		A-2-4, Sa, blk, Wet, Rec. = 2.0 ft	26	18.0	4.6	76.6	18.6
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY FEGC F 026-1(34) GPJ VT AOT GDT 7/31/09

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_TYP_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
BORING LOGS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 49 OF 339

NOTE:

SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-318
SHEET 1 of 1
DATE STARTED: 6/05/09
DATE COMPLETED: 6/05/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 601+54.50
OFFSET: -40.80
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 607.69 ft
GROUNDWATER DEPTH: 11.7 ft 6/05/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		A-1-b, SaGr, brn, Moist, Rec. = 1.1 ft	19	7.1	45.7	37.4	16.9
5		A-4, SaGrSi, Dkbrn, MTW, Rec. = 1.0 ft	18	15.5	27.1	26.6	46.3
		A-4, Si, brn, MTW, Rec. = 1.2 ft	11	26.0	4.8	6.9	88.3
10		A-4, Si, brn, Wet, Rec. = 1.3 ft	8	28.5	2.1	6.2	91.7
		A-4, Si, brn, Wet, Rec. = 1.2 ft	8	29.7	3.2	7.7	89.1
		A-4, Si, brn, Wet, Rec. = 1.2 ft	10	27.4	2.8	11.8	85.4
15		A-4, Si, brn, Wet, Rec. = 1.4 ft	10	26.4	2.8	18.9	78.3
20		A-2-4, Sa, brn, Wet, Rec. = 1.3 ft	6	22.5	0.9	87.8	11.3
		A-3, Sa, brn, Wet, Rec. = 1.2 ft	12	22.8	0.5	90.7	8.8
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY / FEGC F 026-1(34) VT ACT GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-319
SHEET 1 of 1
DATE STARTED: 6/18/09
DATE COMPLETED: 6/18/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 601+67.40
OFFSET: 32.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 607.58 ft
GROUNDWATER DEPTH: 14.2 ft 6/18/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		A-2-4, SlSa, brn, Moist, Rec. = 1.6 ft	4	15.1	3.8	64.6	31.6
5		A-2-4, SlSa, brn, Moist, Rec. = 1.5 ft	5	11.9	0.0	73.1	26.9
		A-4, SlSa, brn-gry, Moist, Rec. = 1.6 ft	5	19.7	0.4	58.7	40.9
10		A-1-b, GrSa, blk, Moist, Rec. = 1.3 ft	18	13.4	32.2	50.3	17.5
		A-1-b, GrSa, blk, Moist, Rec. = 0.9 ft	33	12.9	38.9	44.5	16.6
		Visual Classification, Gr Sa, gry, MTW, Rec. = 0.6 ft	35				
15		A-1-b, SaGr, gry, Wet, Rec. = 0.5 ft	26	13.3	56.9	24.7	18.4
20		A-1-b, GrSa, blk, Wet, Rec. = 1.1 ft	22	20.6	36.4	44.9	18.7
		A-1-b, SlGrSa, blk, Wet, Rec. = 1.2 ft	21	19.8	36.6	43.3	20.1
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY / FEGC F 026-1(34) VT ACT GDT 7/31/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-320
SHEET 1 of 1
DATE STARTED: 6/08/09
DATE COMPLETED: 6/08/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 22+31.00
OFFSET: -43.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 594.69 ft
GROUNDWATER DEPTH: 10.2 ft 6/08/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		A-2-4, Sa, brn, Moist, Rec. = 1.3 ft	4	21.2	18.0	65.3	16.7
5		A-4, SaSi with Trace of Organics (4.2%), blk, Moist, Rec. = 1.5 ft	2	42.1	0.1	34.8	65.1
		A-4, SaSi, blk, Moist, Rec. = 1.5 ft	4	26.0	0.6	45.1	54.3
10		A-2-4, GrSa, brn, Wet, Rec. = 0.6 ft	13	20.7	30.4	56.3	13.3
		A-1-b, GrSa, brn, Wet, Rec. = 1.4 ft	15	20.7	29.9	57.1	13.0
		A-1-b, GrSa, brn, Wet, Rec. = 2.0 ft	22	17.1	27.2	64.1	8.7
15		A-2-4, GrSa, brn, Wet, Rec. = 1.1 ft	17	30.0	22.5	59.3	18.2
20		A-2-4, SlSa, brn, Wet, Rec. = 0.7 ft	2	28.5	11.6	65.3	23.1
		A-2-4, SlSa, brn, Wet, Rec. = 1.7 ft	2	29.0	4.3	75.3	20.4
25		Hole stopped @ 25.0 ft					
30							
35							
40							
45							

LOG OF BORING BARRE CITY / FEGC F 026-1(34) VT ACT GDT 7/31/09

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_TYP_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
BORING LOGS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 50 OF 339

NOTE:

SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-321
SHEET 1 of 1
DATE STARTED: 6/17/09
DATE COMPLETED: 6/17/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 14+65.00
OFFSET: 77.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 592.26 ft
GROUNDWATER DEPTH: See Notes
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: AUGER TRUCK
BORING TYPE: AUGER
SAMPLE TYPE: AUGER
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
0		A-2-4, SiSa, blk, Moist		11.2	11.0	60.2	28.8
5		A-2-4, Sa, blk, Moist		14.2	1.5	82.4	16.1
		A-2-4, Sa, gry, MTW, Small Wood pieces were within sample.		25.4	0.3	79.8	19.9
10		Hole stopped @ 10.0 ft					

DRILLER'S NOTES:
1. No Ledge to depth.
2. No Water to 8.0 ft.
3. Hole collapsed at 8.0 ft.

LOG OF BORING BARRE CITY FEGC F 026-1(34)(P) VT AOT GDT 7/2/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-322
SHEET 1 of 1
DATE STARTED: 7/02/09
DATE COMPLETED: 7/02/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 423+05.00
OFFSET: -37.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 613.57 ft
GROUNDWATER DEPTH: 11.9 ft 7/02/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
0		A-2-4, GrSiSa, brn, Moist, Rec. = 0.9 ft	4	21.4	30.5	37.0	32.5
5		A-4, SaSi, brn, Moist, Rec. = 1.0 ft	2	24.2	14.0	35.8	50.2
		A-4, SaSi, brn, Moist, Rec. = 0.4 ft	2	22.1	12.6	31.6	55.8
10		Visual Classification, GrSiSa, brn, MTW, Rec. = 0.1 ft, Insufficient sample for testing	6	19.4			
		A-1-b, GrSa, brn, Wet, Rec. = 0.8 ft	39	14.4	38.9	44.1	17.0
15		A-2-4, SiGrSa, brn, Wet, Rec. = 0.7 ft	39	19.7	31.1	43.4	25.5
		A-1-b, GrSa, brn, Wet, Rec. = 1.5 ft	16	18.3	26.6	55.2	17.2
20		A-4, SaGrSi, brn, MTW, Rec. = 1.3 ft	86	15.4	32.0	30.7	37.3
		Hole stopped @ 21.5 ft					

DRILLER'S NOTES:
1. Drilled to ledge or boulder.

LOG OF BORING BARRE CITY FEGC F 026-1(34)(P) VT AOT GDT 7/2/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-323
SHEET 1 of 1
DATE STARTED: 7/01/09
DATE COMPLETED: 7/01/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 707+00.00
OFFSET: 26.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 609.72 ft
GROUNDWATER DEPTH: 8.8 ft 7/01/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
0		A-4, SiSa, brn, Moist, Rec. = 1.6 ft	5	18.3	6.6	43.1	50.3
5		A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft	5	13.8	9.1	59.7	31.2
		A-2-4, SiSa, brn, Moist, Rec. = 1.0 ft	19	13.5	17.7	51.7	30.6
10		A-2-4, SiSa, brn, MTW, Rec. = 1.3 ft	6	26.9	10.4	67.3	22.3
		A-2-4, SiSa, brn, Wet, Rec. = 0.7 ft	14	26.9	5.6	74.1	20.3
15		A-3, Sa, brn, Wet, Rec. = 1.5 ft	9	27.4	0.1	91.5	8.4
		A-3, Sa, brn, Wet, Rec. = 2.0 ft	4	27.5	0.0	93.4	6.6
20		A-4, SiSa, brn, Wet, Rec. = 0.9 ft	35	36.9	0.5	60.4	39.1
		A-2-4, SiGrSa, brn, Wet, Rec. = 0.7 ft	R	24.4	26.4	49.9	23.7
		Hole stopped @ 23.7 ft					

DRILLER'S NOTES:
1. Drilled to ledge or boulder.

LOG OF BORING BARRE CITY FEGC F 026-1(34)(P) VT AOT GDT 7/2/09

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_TYP_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
BORING LOGS	SHEET 51 OF 339

NOTE:

SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-324
SHEET 1 of 1
DATE STARTED: 6/30/09
DATE COMPLETED: 6/30/09

PROJECT NAME: BARRE CITY
SITE NAME: US-302
STATION: 421+97.00
OFFSET: 40.00
VTSPG NAD83:

PROJECT NUMBER: FEGC F 026-1(34)
SITE NUMBER:
GROUND ELEVATION: 607.78 ft
GROUNDWATER DEPTH: 4.0 ft 6/30/09
PROJECT PIN NUMBER: 85B010

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: HOLLOW STEM AUGER
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT RUN	M.C. (%) REC (%)	GRAVEL (%) RQD (%)	SAND (%) Dip (deg)	FINES (%) Drill Rate (min/ft)
2.5		A-2-4, GrSiSa, brn, Moist, Rec. = 1.4 ft	2	13.6	22.9	45.6	31.5
5.0		A-1-b, SiGrSa, brn, Moist, Rec. = 1.2 ft	9	9.8	37.5	41.2	21.3
7.5		A-1-b, SiGrSa, brn, Moist, Rec. = 1.1 ft	9	11.7	36.1	42.1	21.8
10.0		A-1-b, GrSa, brn, Wet, Rec. = 1.0 ft	13	22.9	39.0	41.9	19.1
		A-2-4, SiSa, brn, Wet. Rec. = 0.4 ft	R	33.5	14.0	62.3	23.7
		Top of Bedrock @ 11.8 ft					
12.5		Mafic-Limestone, (Geologist's determination), BXDC, 11.8 ft - 14.8 ft					10
							10
							10
15.0		Hole stopped @ 14.8 ft					
17.5							

LOG OF BORING BARRE CITY FEGC F026 1(34).GPJ VT AOT.GDT 7/6/09

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG
BARRE CITY
FEGC F026-1(34)

Boring No.: **B-401**
Page No.: 1 of 1
Pin No.: 85B010
Checked By: TDE

Boring Crew: PORTER, GARROW, HOLT
Date Started: 3/02/11 Date Finished: 3/03/11
VTSPG NAD83:
Station: 14+82 Offset: 126.00
Ground Elevation:

	Casing	Sampler
Type:	H.S.A.	SS
I.D.:	4.25 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C TRACK	C_E = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
03/03/11	9.32	9:00AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		No sampling performed, 0.0 ft - 5.0 ft					
5.0		A-4, SiSa, brn, Moist, Rec. = 1.5 ft	2-2-3-2 (5)	24.0	1.9	50.8	47.3
7.5		A-2-4, Sa, brn, Moist, Rec. = 1.3 ft	3-3-3-3 (6)	16.1	2.7	84.3	13.0
10.0		A-2-4, Sa, gry-brn, Wet, Rec. = 0.6 ft	2-3-1 (4)	28.4	0.6	83.9	15.5
		Hole stopped @ 10.5 ft					
12.5							
15.0							
17.5							

Remarks:
Water levels were taken through hollow stem auger one day after drilling.

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C_E is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 BARRE CITY FEGC F026 1(34).GPJ VERMONT AOT.GDT 3/9/11

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG
BARRE CITY
FEGC F026-1(34)

Boring No.: **B-402**
Page No.: 1 of 1
Pin No.: 85B010
Checked By: TDE

Boring Crew: PORTER, GARROW, HOLT
Date Started: 3/02/11 Date Finished: 3/03/11
VTSPG NAD83:
Station: 15+6.5 Offset: 162.64
Ground Elevation:

	Casing	Sampler
Type:	H.S.A.	SS
I.D.:	4.25 in	1.5 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	N.A.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 45C TRACK	C_E = 1.34

Groundwater Observations

Date	Depth (ft)	Notes
03/02/11	9.38	1:30PM
03/03/11	9.32	9:00AM

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
2.5		No sampling performed, 0.0 ft - 5.0 ft					
5.0		A-4, SiSa, brn, Moist, Rec. = 1.4 ft	3-3-3-3 (6)	22.4		55.2	44.8
7.5		A-4, SiSa, brn, Moist. Rec. = 1.3 ft	1-2-2-2 (4)	28.1	1.5	56.0	42.5
10.0		A-2-4, SiSa, gry-brn, Wet, Rec. = 0.9 ft	1-2-2 (4)	38.9	1.3	70.0	28.7
		Hole stopped @ 10.5 ft					
12.5							
15.0							
17.5							

Remarks:
Water levels were taken through hollow stem auger immediately after drilling and again one day after drilling.

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. C_E is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

BORING LOG 2 BARRE CITY FEGC F026-1(34).GPJ VERMONT AOT.GDT 3/9/11

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85B010_TYP_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
BORING LOGS	SHEET 52 OF 339

NOTE:
SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

1 of 9

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08
NOTES FROM STATION 136+00 TO STATION 137+00
CHECKED BY Linda J. Viks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION				
				Field			GAS DET. PID READING (PPM)	LAB CLASS.
				Soil Type	Color	Moisture		
R22	137+00	6.7' RT.	0.0-0.4	Pavement			<1	
			0.4-1.0	Granite			<1	
			1.0-3.0	SaGr	Brn	M	<1	A-2-4 GrSiSa
			3.0-7.0	GrSi	Brn	M	<1	A-4 SaSi
			7.0-11.0	SiSa	Brn	MTW	<1	A-4 SiSa
			11.0-14.0	SaGr	Brn	W	<1	A-2-4 GrSiSa
			14.0-16.0	GrSa	Brn	W	<1	A-2-4 GrSiSa
			16.0-20.0	Si	GrBrn	W	<1	A-4 SaSi
			NLTD					
R21	136+00	8.2' RT.	0.0-0.4	Pavement			<1	
			0.4-1.0	Granite			<1	
			1.0-2.0	SaGr	Brn	M	<1	
			2.0-5.0	SiSa	Brn	M	<1	A-2-4 GrSiSa
			5.0-10.0	GrSa	Brn	M	<1	A-4 SiSa
			10.0-12.0	SaGr	Brn	M	<1	A-1-B SiSaGr
			12.0-16.0	SaGr	Brn	W	<1	A-1-B GrSa
			16.0-20.0	SaSi	Brn	W	<1	A-4 GrSaSi
			NLTD					

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

2 of 9

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08-95
NOTES FROM STATION 132+00 TO STATION 134+85
CHECKED BY Linda J. Viks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION				
				Field			GAS DET. PID READING (PPM)	LAB CLASS.
				Soil Type	Color	Moisture		
R20	134+85	6.5' RT.	0.0-0.4	Pavement			<1	
			0.4-1.0	Granite			<1	
			1.0-4.0	SiGrSts	GrBrn	M	<1	A-2-4 GrSiSa
			4.0-8.0	SaSi	Brn	M	<1	A-4 SaSi
			8.0-13.0	SiSa	Brn	MTW	<1	A-2-4 SiSa
			13.0-16.0	SaGr	Brn	W	<1	A-2-4 SaSiGr
			16.0-20.0	Si	Gray	W	<1	A-4 SaSi
			NLTD					
R19	133+00	6.5' RT.	0.0-0.4	Pavement			<1	
			0.4-1.0	Granite			<1	
			1.0-3.0	SaGr	GrBrn	M	<1	A-1-b GrSa
			3.0-10.0	SiSa	Brn	M	<1	A-4 SiSa
			10.0-16.0	GrSa	Brn	W	<1	A-2-4 Sa
			16.0-20.0	Sa	Brn	W	<1	A-2-4 SiSa
			NLTD					
R18	132+00	6.6' RT.	0.0-0.4	Pavement			<1	
			0.4-1.0	Granite			<1	
			1.0-4.0	SaGr	GrBrn	M	<1	A-1-b SiGrSa
			4.0-10.0	SaSi	Brn	MTW	<1	—
			10.0-17.0	SrSaGr	Brn	MTW	<1	A-2-4 SiSa
			17.0-20.0	SaGr	Brn	W	<1	A-1-b SiGrSa
			NLTD					

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

3 of 9

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08-95
NOTES FROM STATION 128+00 TO STATION 131+00
CHECKED BY Linda J. Viks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION				
				Field			GAS DET. PID READING (PPM)	LAB CLASS.
				Soil Type	Color	Moisture		
RI7	131+00	6.6' RT.	0.0-0.4	Pavement			<1	
			0.4-1.0	Granite			<1	
			1.0-3.0	GrSiSa	Brn	M	<1	A-2-4 SiSa
			3.0-9.0	SiSa	Brn	MTW	<1	A-4 SiSa
			9.0-13.0	SaGr	Brn	MTW	<1	A-2-4 SiGrSa
			13.0-20.0	SaGr	Brn	W	<1	A-2-4 SrGrSa
			NLTD					
RI6	130+00	6.6' RT.	0.0-0.5	Pavement			<1	
			0.5-0.9	Granite			<1	
			0.9-3.0	GrSa	Brn	MTW	<1	A-4 SaSi
			3.0-7.0	SiSa	Brn	M	<1	A-4 SiSa
			7.0-13.0	SiGrSa Fract Org.	DkBrn	W	<1	A-2-4 GrSiSa
			13.0-20.0	SaSiGr Fract Org.	Dk Brn	W	<1	A-1-b SiSaGr
			NLTD					
RI5	128+00	8.1' RT.	0.0-0.6	Pavement			<1	
			0.6-1.0	Granite			<1	
			1.0-11.0	SiSa	Brn	M	<1	A-2-4 SiSa
			11.0-17.0	Sa	Brn	W	<1	A-2-4 SiSa
			17.0-20.0	GrSiSa	Brn	MTW	<1	A-4 SrSa
			NLTD					
			NOTE: A steel drill bit broke off and is still imbedded in roadway from 0.5' to 1.0' below surface.					

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85D010_TYP_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
BORING LOGS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 53 OF 339

VHB Vanasse Hangen Brustlin, Inc.

NOTE:
SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

4 of 9

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08-95
NOTES FROM STATION 124+85 TO STATION 126+90
CHECKED BY Linda J. Viks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION: Field: Soil Type	Color	Moisture	GAS DET. PID READING (ppm)	LAB CLASS.
RI4	126+90	7.5' RT.	0.0-0.5	Pavement			<1	
			0.5-0.9	Granite			<1	
			0.9-2.0	Sa Gr (w Granite dust	Brn	M	<1	
			2.0-8.0	Sa	Brn	M	<1	A-4 Si Sa
			8.0-10.0	Gr	Brn	M	<1	
			10.0-15.0	Gr Sa	Brn	MTW	<1	A-2-4 Gr Si Sa
			15.0-20.0	Sa	Brn	MTW	<1	A-2-4 Gr Si Sa
			NLTO					
RI3	124+85	13.4' LT.	0.0-0.5	Pavement			<1	
			0.5-0.9	Granite			<1	
			0.9-2.5	Gr Sa	Brn	M	<1	A-2-4 Gr Si Sa
			2.5-7.0	Si Sa	Brn	M	<1	A-2-4 Si Sa
			7.0-11.0	Sa Gr	Brn	MTW	<1	A-1-b Gr Sa
			11.0-16.0	Si	Gray	W	<1	A-4 Si
			16.0-20.0	Si Gr	Gr Brn	SAT	<1	A-4 Sa Gr Si
			NLTO					

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

5 of 9

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08-95
NOTES FROM STATION 121+99 TO STATION 123+78
CHECKED BY Linda J. Viks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION: Field: Soil Type	Color	Moisture	GAS DET. PID READING (ppm)	LAB CLASS.
RI2	123+78	19.2' RT.	0.0-0.4	Pavement			<1	
			0.4-1.4	Granite			<1	
			1.4-3.0	Si Gr			<1	A-2-4 Si Sa
			3.0-5.0	Si	Dk Brn	M	<1	A-4 Gr Si Si
			5.0-7.0	Si Sa	Brn	M	<1	A-4 Si Sa
			7.0-11.0	Si Sa Gr	BL	MTW	<1	A-1-b Si Sa Gr
			11.0-20.0	Si	Gr	W	<1	A-4 Si
			NLTO					
RII	123+44	19.9' RT.	0.0-0.4	Pavement			<1	
			0.4-1.4	Granite			<1	
			1.4-5.0	Sa Si	Brn	M	<1	A-4 Si Sa
			5.0-10.0	Gr Si Sa Trace Wood	Brn	M	<1	A-2-4 Si Sa
			10.0-11.0	Gr	Brn	W	<1	
			11.0-20.0	Si	Gr	W	<1	A-4 Si
			NLTO					
RIO	121+99	14.8' RT.	0.0-0.4	Pavement			<1	
			0.4-0.9	Concrete			<1	
			0.9-2.5	Sa Gr	Brn	M	<1	
			2.5-9.0	Sa Si	Brn	M	<1	
			9.0-14.0	Gr	Brn	MTW	<1	
			14.0-20.0	Si	Gr	W	<1	
			NLTO					

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

6 of 9

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08-95
NOTES FROM STATION 117+99 TO STATION 119+99
CHECKED BY Linda J. Viks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION: Field: Soil Type	Color	Moisture	GAS DET. PID READING (ppm)	LAB CLASS.
R9	119+99	12.8' RT.	0.0-0.4	Pavement			<1	
			0.4-0.4	Concrete			<1	
			0.9-2.5	Gr Sa	Brn	M	<1	
			2.5-11.0	Si Sa	Brn	M	<1	
			11.0-20.0	Sa Si	Gr	W	<1	
			NLTO					
R8	118+99	13.4' RT.	0.0-0.4	Pavement			<1	
			0.4-1.0	Concrete			<1	
			1.0-5.0	Sa Gr	Brn	M	<1	
			5.0-13.0	Si Sa	Brn	M	<1	
			13.0-20.0	Sa Si	Gr	W	<1	
			NLTO					
R7	117+99	7.0' RT.	0.0-0.4	Pavement			<1	
			0.4-0.8	Granite			<1	
			0.8-3.0	Sa Gr	Gr Brn	M	<1	A-2-4 Si Sa
			3.0-12.0	Si Sa	Brn	W	<1	A-2-4 Gr Si Sa
			12.0-20.0	Si Sa	Gr	SAT	<1	
			NLTO					

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_TYP_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
BORING LOGS	SHEET 54 OF 339

VHB Vanasse Hangen Brustlin, Inc.

NOTE:
SEE GENERAL PLAN SHEETS FOR LAYOUT LOCATIONS.

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

7 of 9

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08-95
NOTES FROM STATION 115+77 TO STATION 116+37
CHECKED BY Linda J. Diks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION Field: Soil Type	Color	Moisture	GAS DET. PID READING (ppm)	LAB CLASS.
R6	116+37	0.0' RT.	0.0-1.2	Pavement			<1	
			1.2-1.8	Stone or Concrete			<1	
			1.8-5.0	SiGr	GrBrn	M	5	
			5.0-7.0	Si Sa and wood	DkBrn	M	80	
			7.0-10.0	SaSi	Gr	W	50	
			10.0-15.0	Saturated aver — No Rec.				
			15.0-20.0	SaSi	Gr	W	3	
			NLTD					
R5	116+17	0.4' LT.	0.0-0.6	Pavement			<1	
			0.6-3.0	SaGr	Brn	M	<1	
			3.0-6.0	SiSa	Brn	M	5	
			6.0-8.0	SiSa & wood	Brn	M	35	
			8.0-10.0	SiSa & wood	Brn	M	15	
			10.0-20.0	SaGr	DkBrn	W	<1	
			NLTD					
R4	115+77	2.8' LT.	0.0-1.0	Pavement			<1	
			1.0-6.0	GrSa	Brn	M	<1	
			6.0-10.0	GrSa	Brn	M	140	
			10.0-15.0	GrSa	GrBrn	SAT	90	
			15.0-20.0	GrSa	GrBrn	SAT	50	
			NLTD					

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

8 of 9

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08-95
NOTES FROM STATION 115+37 TO STATION 115+57
CHECKED BY Linda J. Diks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION Field: Soil Type	Color	Moisture	GAS DET. PID READING (ppm)	LAB CLASS.
R3	115+57	3.6' LT.	0.0-1.0	Pavement			<1	
			1.0-1.5	Stone or concrete			<1	
			1.5-2.0	SaGr	Brn	M	<1	
			2.0-3.0	SaGr	Brn	M	180	
			3.0-5.0	GrSa	Brn	M	180	
			5.0-10.0	GrSa	Brn	MTW	130	
			10.0-15.0	GrSa	GrBrn	SAT	120	
			15.0-20.0	GrSa	GrBrn	SAT	80	
			NLTD					
R2	115+37	5.3' LT.	0.0-1.0				<1	
			1.0-1.5				<1	
			1.5-4.0	SaGr	Brn	D	10	
			4.0-5.0	SaGr	Brn	M	40	
			5.0-6.0	GrSa	GrBrn	MTW	40	
			6.0-10.0	GrSa	GrBrn	MTW	20	
			10.0-13.0	GrSa	GrBrn	SAT	40	
			13.0-15.0	GrSa	GrBrn	SAT	64	
			15.0-17.0	SaGr	Brn	SAT	22	
			17.0-20.0	SaGr	Brn	SAT	28	
			NLTD					

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SOILS SUBDIVISION

9 of 9

AUGER DRILLING NOTES

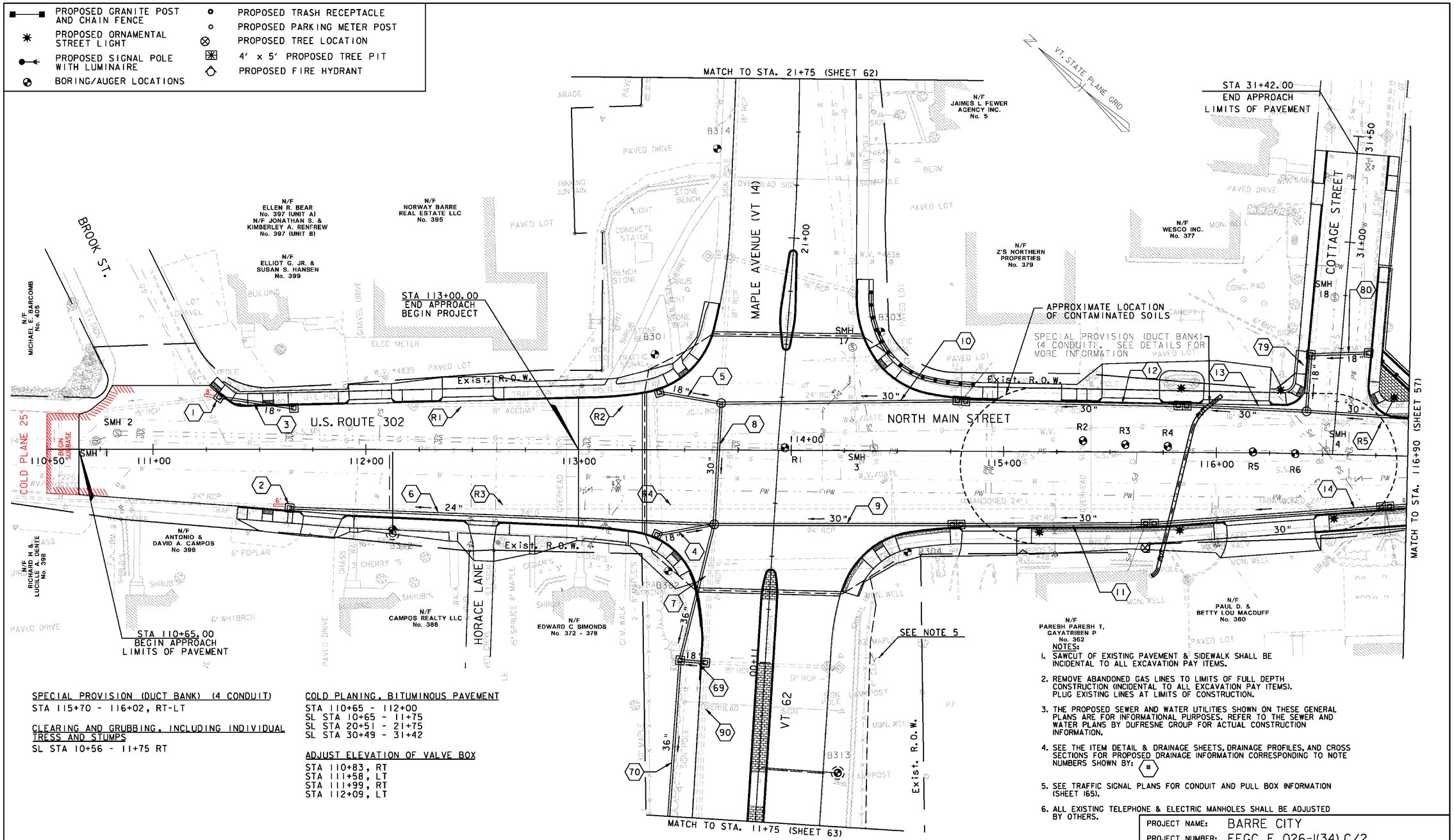
PROJECT/PROJECT NO.: Barre City FEGC F026-1(34)
DRILLER Willis DATE: 06-07-95 to 06-08-95
NOTES FROM STATION 113+97 TO STATION 113+97
CHECKED BY Linda J. Diks
DATE CHECKED 06-19-95

BORING NUMBER	STATION	OFFSET	DEPTH	SOIL DESCRIPTION Field: Soil Type	Color	Moisture	GAS DET. PID READING (ppm)	LAB CLASS.
R1	113+97	1.2' LT.	0.0-0.8	Pavement			<1	
			0.8-1.5	Stone or concrete			<1	
			1.5-5.0	SaGr	Brn	M	<1	
			5.0-7.0	SiSa	Brn	M	<1	A-2-4 SiSa
			7.0-11.0	SiSa	Gray	W	<1	A-2-4 SiSa
			11.0-17.0	SaGr	Brn	W	<1	A-1-b SiGrSa
			17.0-20.0	SiSa	Gray	SAT	<1	A-2-4 GrSiSa
			NLTD					

4070 5C 8/93

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_TYP_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
BORING LOGS	SHEET 55 OF 339



SPECIAL PROVISION (DUCT BANK) (4 CONDUIT)
STA 115+70 - 116+02, RT-LT

CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TRESS AND STUMPS
SL STA 10+56 - 11+75 RT

COLD PLANING, BITUMINOUS PAVEMENT
STA 110+65 - 112+00
SL STA 10+65 - 11+75
SL STA 20+51 - 21+75
SL STA 30+49 - 31+42

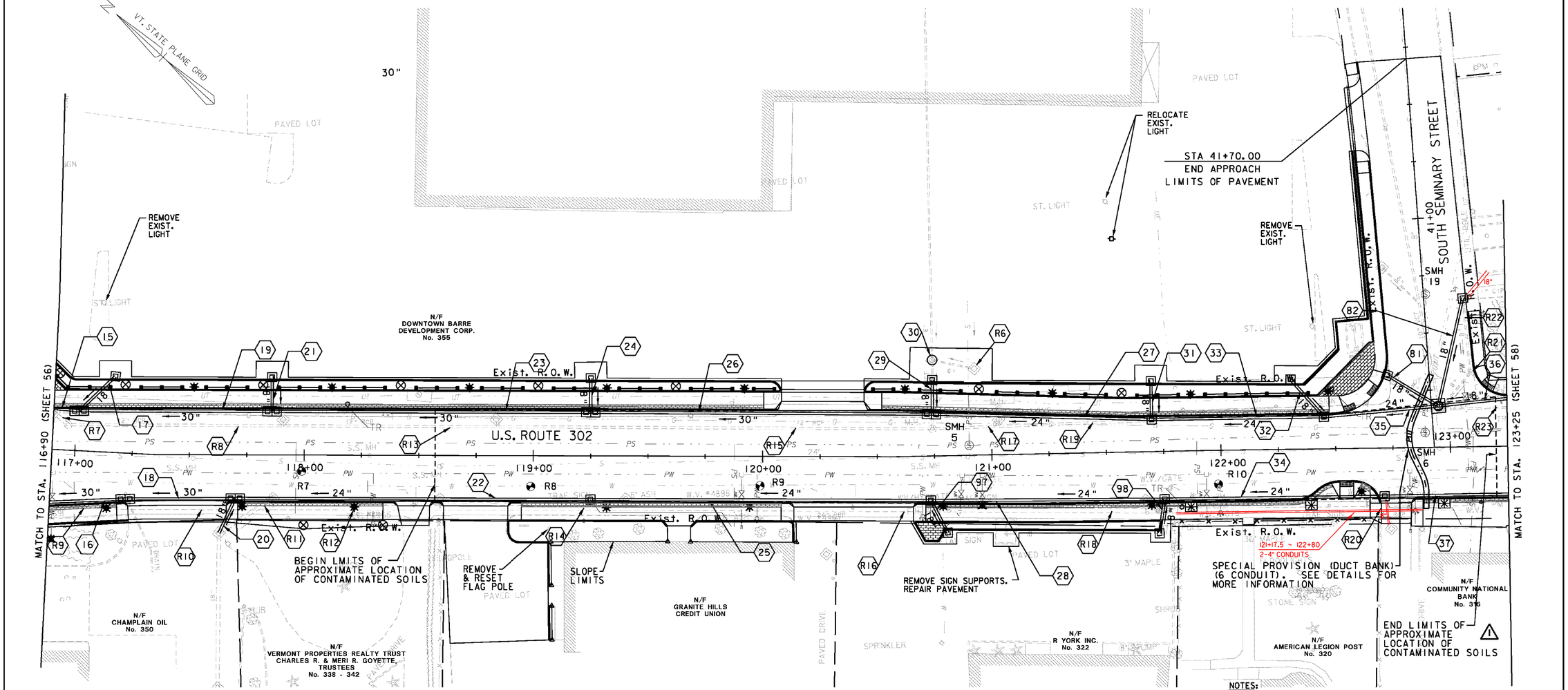
ADJUST ELEVATION OF VALVE BOX
STA 110+83, RT
STA 111+58, LT
STA 111+99, RT
STA 112+09, LT

NOTES:

1. SAWCUT OF EXISTING PAVEMENT & SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION PAY ITEMS.
2. REMOVE ABANDONED GAS LINES TO LIMITS OF FULL DEPTH CONSTRUCTION (INCIDENTAL TO ALL EXCAVATION PAY ITEMS). PLUG EXISTING LINES AT LIMITS OF CONSTRUCTION.
3. THE PROPOSED SEWER AND WATER UTILITIES SHOWN ON THESE GENERAL PLANS ARE FOR INFORMATIONAL PURPOSES. REFER TO THE SEWER AND WATER PLANS BY DUFRESNE GROUP FOR ACTUAL CONSTRUCTION INFORMATION.
4. SEE THE ITEM DETAIL & DRAINAGE SHEETS, DRAINAGE PROFILES, AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)
5. SEE TRAFFIC SIGNAL PLANS FOR CONDUIT AND PULL BOX INFORMATION (SHEET 165).
6. ALL EXISTING TELEPHONE & ELECTRIC MANHOLES SHALL BE ADJUSTED BY OTHERS.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010bdr_cp_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
GENERAL PLAN #1	SHEET 56 OF 339



COLD PLANING, BITUMINOUS PAVEMENT
SL STA 40+48 - 41+70

SPECIAL PROVISION (DUCT BANK) (6 CONDUIT)
STA 122+89 - 122+92, RT-LT

ADJUST ELEVATION OF VALVE BOX
STA 119+99 RT

REMOVAL OF EXISTING FENCE
STA 121+81 - 122+64 RT

SPECIAL PROVISION (ORNAMENTAL FENCE, 4 FEET)
STA 121+81 - 122+64 RT

SPECIAL PROVISION (GATE FOR ORNAMENTAL FENCE, 4 FEET)
STA 122+10 - 122+14 RT

SPECIAL PROVISION (REMOVE AND RESET FLAG POLE)
STA 119+07, RT

NOTES:
1. SAWCUT OF EXISTING PAVEMENT & SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION PAY ITEMS.
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4. SEE THE ITEM DETAIL & DRAINAGE SHEETS, DRAINAGE PROFILES, AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)
5. ALL EXISTING TELEPHONE & ELECTRIC MANHOLES SHALL BE ADJUSTED BY OTHERS.

- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- BORING/AUGER LOCATIONS
- PROPOSED TRASH RECEPTACLE
- PROPOSED PARKING METER POST
- PROPOSED TREE LOCATION
- 4' x 5' PROPOSED TREE PIT
- PROPOSED FIRE HYDRANT

REVISION	BY	DATE
1	DMP	5/6/2011

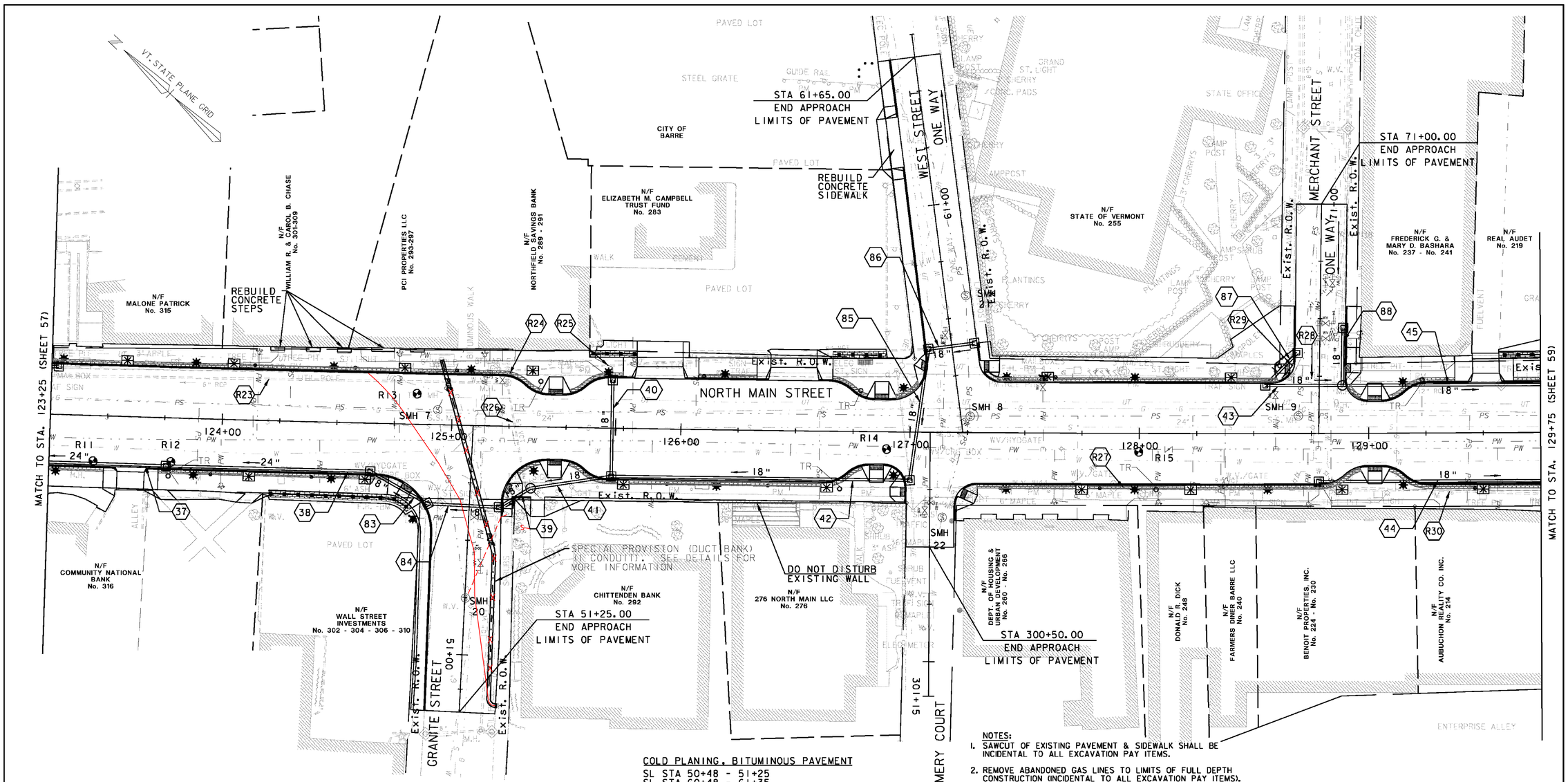
REVISION NO. 1: CLARIFIED LIMITS OF APPROXIMATELOCATION OF CONTAMINATED SOILS

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr_cp_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
GENERAL PLAN #2
PLOT DATE: 5/6/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 57 OF 339



COLD PLANING, BITUMINOUS PAVEMENT
SL STA 50+48 - 51+25
SL STA 60+48 - 61+35
SL STA 70+48 - 71+00
SL STA 300+48 - 300+50

SPECIAL PROVISION (DUCT BANK) (1 CONDUIT)
STA. 124+95 LT - SL STA 51+21 LT

NOTES:
1. SAWCUT OF EXISTING PAVEMENT & SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION PAY ITEMS.
2. REMOVE ABANDONED GAS LINES TO LIMITS OF FULL DEPTH CONSTRUCTION (INCIDENTAL TO ALL EXCAVATION PAY ITEMS). PLUG EXISTING LINES AT LIMITS OF CONSTRUCTION.
3. THE PROPOSED SEWER AND WATER UTILITIES SHOWN ON THESE GENERAL PLANS ARE FOR INFORMATIONAL PURPOSES. REFER TO THE SEWER AND WATER PLANS BY DUFRESNE GROUP FOR ACTUAL CONSTRUCTION INFORMATION.
4. SEE THE ITEM DETAIL & DRAINAGE SHEETS, DRAINAGE PROFILES, AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)
5. ALL EXISTING TELEPHONE & ELECTRIC MANHOLES SHALL BE ADJUSTED BY OTHERS.

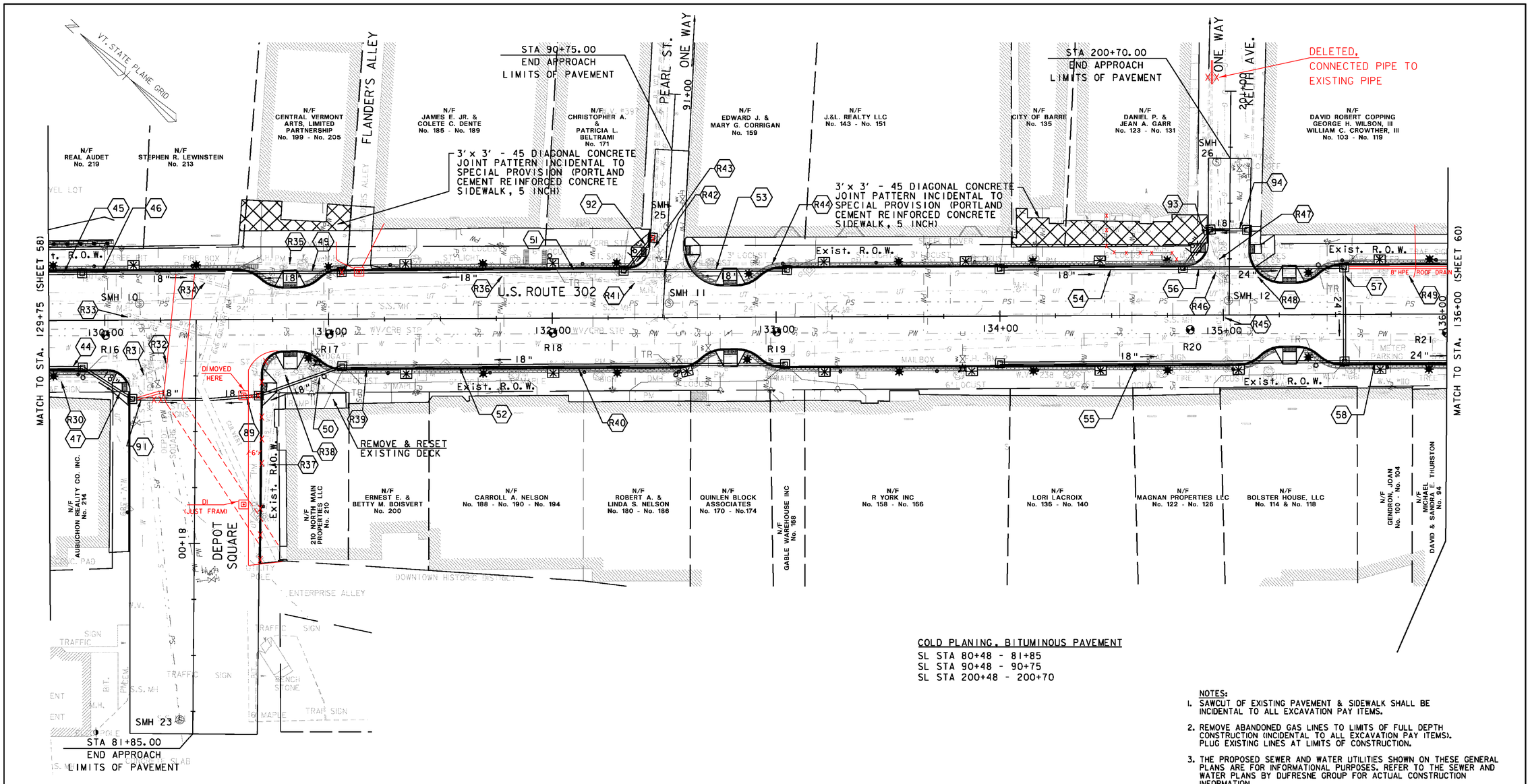
- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- BORING/AUGER LOCATIONS
- PROPOSED TRASH RECEPTACLE
- PROPOSED PARKING METER POST
- PROPOSED TREE LOCATION
- 4' x 5' PROPOSED TREE PIT
- PROPOSED FIRE HYDRANT

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr_cp_C2 | PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: D. PECK
DESIGNED BY: D. PECK | CHECKED BY:
GENERAL PLAN #3 | SHEET 58 OF 339



COLD PLANING, BITUMINOUS PAVEMENT
SL STA 80+48 - 81+85
SL STA 90+48 - 90+75
SL STA 200+48 - 200+70

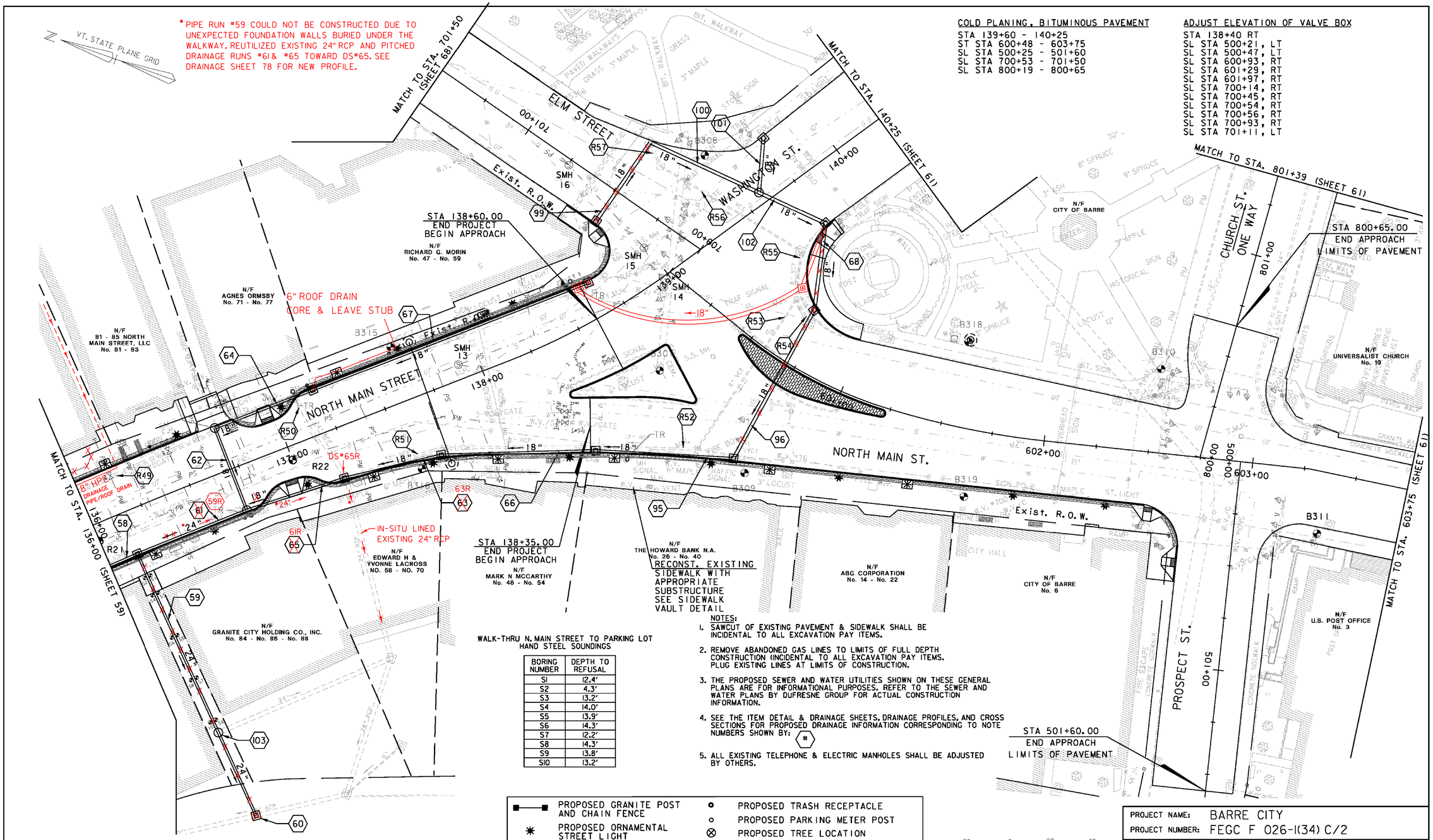
NOTES:
1. SAWCUT OF EXISTING PAVEMENT & SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION PAY ITEMS.
2. REMOVE ABANDONED GAS LINES TO LIMITS OF FULL DEPTH CONSTRUCTION (INCIDENTAL TO ALL EXCAVATION PAY ITEMS). PLUG EXISTING LINES AT LIMITS OF CONSTRUCTION.
3. THE PROPOSED SEWER AND WATER UTILITIES SHOWN ON THESE GENERAL PLANS ARE FOR INFORMATIONAL PURPOSES. REFER TO THE SEWER AND WATER PLANS BY DUFRESNE GROUP FOR ACTUAL CONSTRUCTION INFORMATION.
4. SEE THE ITEM DETAIL & DRAINAGE SHEETS, DRAINAGE PROFILES, AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)
5. ALL EXISTING TELEPHONE & ELECTRIC MANHOLES SHALL BE ADJUSTED BY OTHERS.

- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- BORING/AUGER LOCATIONS
- PROPOSED TRASH RECEPTACLE
- PROPOSED PARKING METER POST
- PROPOSED TREE LOCATION
- 4' x 5' PROPOSED TREE PIT
- PROPOSED FIRE HYDRANT

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010bdr_cp_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
GENERAL PLAN #4	SHEET 59 OF 339



VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

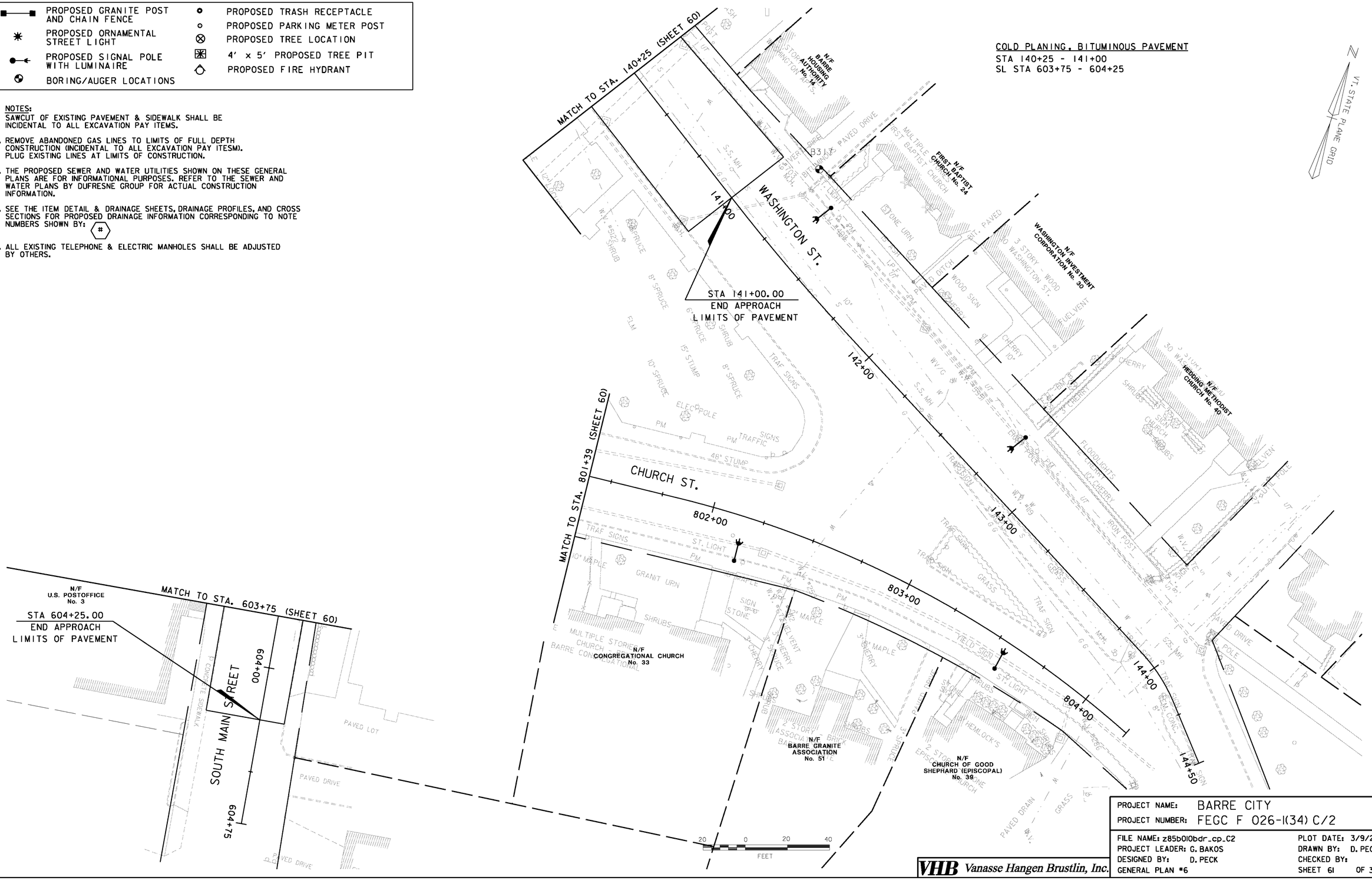
FILE NAME: z85b0l0bdr_cp_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
GENERAL PLAN #5
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 60 OF 339

PROPOSED GRANITE POST AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED SIGNAL POLE WITH LUMINAIRE
BORING/AUGER LOCATIONS
PROPOSED TRASH RECEPTACLE
PROPOSED PARKING METER POST
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT

NOTES:

1. SAWCUT OF EXISTING PAVEMENT & SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION PAY ITEMS.
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4. SEE THE ITEM DETAIL & DRAINAGE SHEETS, DRAINAGE PROFILES, AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)
5. ALL EXISTING TELEPHONE & ELECTRIC MANHOLES SHALL BE ADJUSTED BY OTHERS.

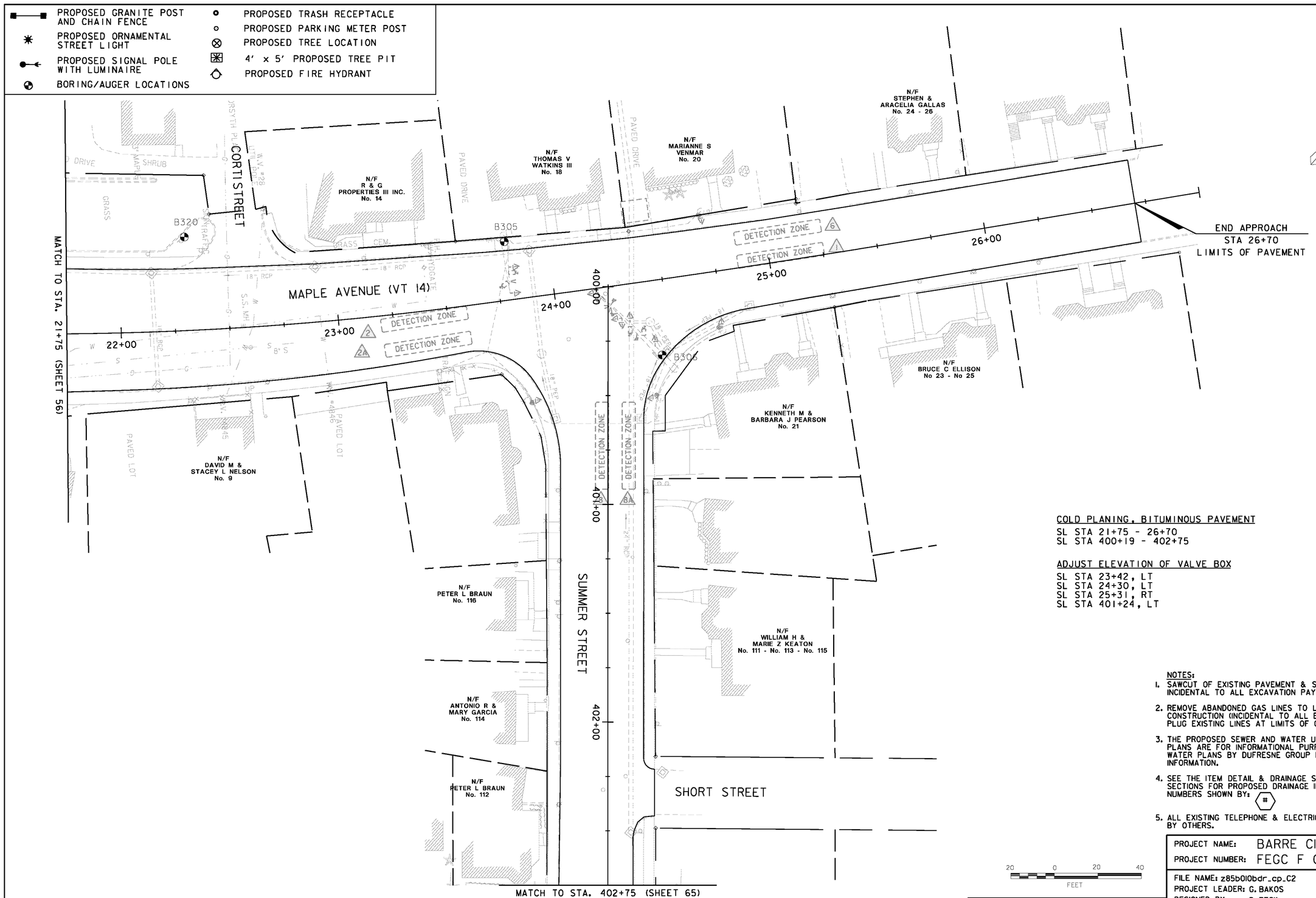
COLD PLANING, BITUMINOUS PAVEMENT
STA 140+25 - 141+00
SL STA 603+75 - 604+25



PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010bdr_cp_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
GENERAL PLAN #6	SHEET 61 OF 339

VHB Vanasse Hangen Brustlin, Inc.

PROPOSED GRANITE POST AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED SIGNAL POLE WITH LUMINAIRE
BORING/AUGER LOCATIONS
PROPOSED TRASH RECEPTACLE
PROPOSED PARKING METER POST
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT



COLD PLANING, BITUMINOUS PAVEMENT
SL STA 21+75 - 26+70
SL STA 400+19 - 402+75

ADJUST ELEVATION OF VALVE BOX
SL STA 23+42, LT
SL STA 24+30, LT
SL STA 25+31, RT
SL STA 401+24, LT

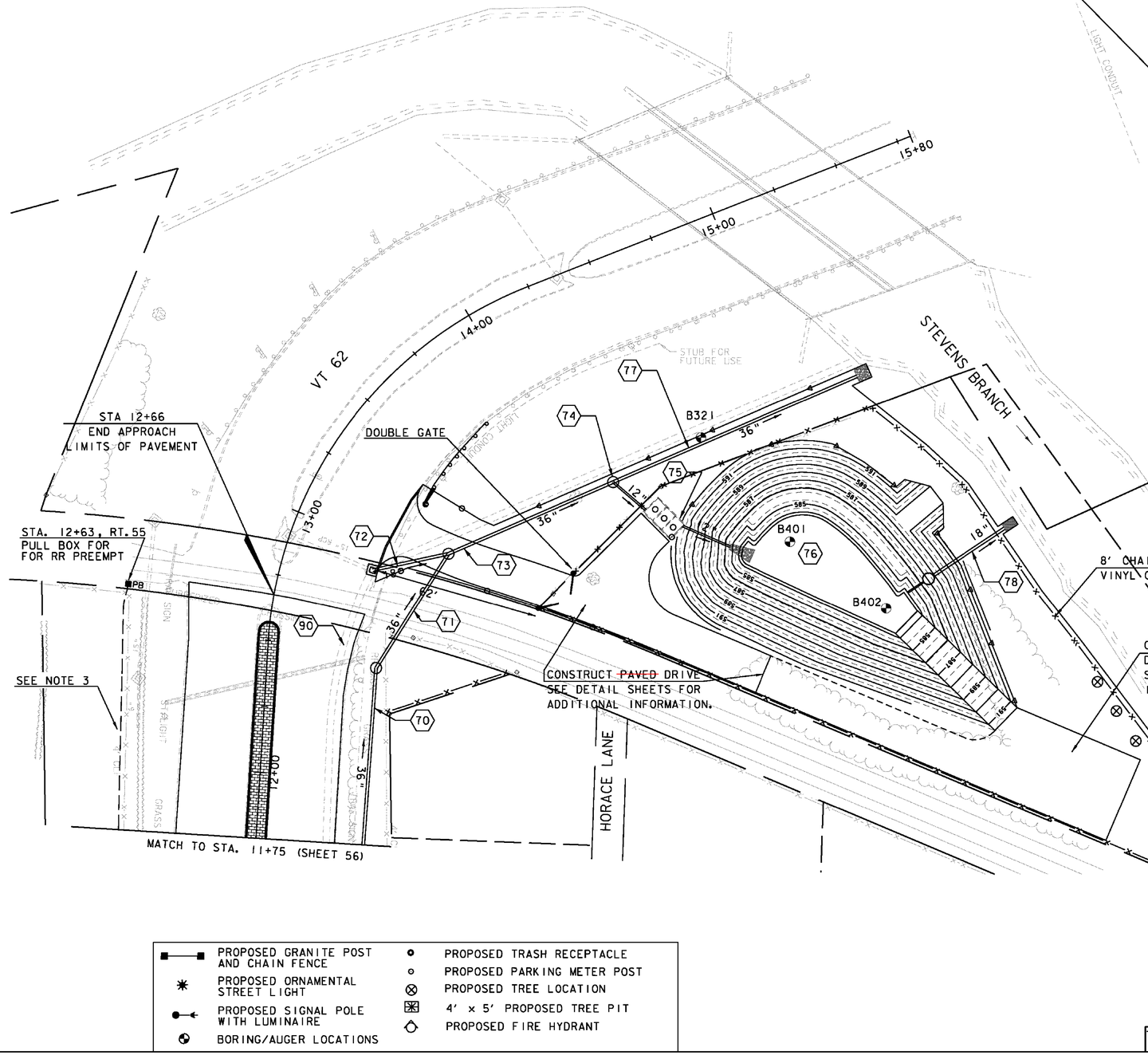
NOTES:
1. SAWCUT OF EXISTING PAVEMENT & SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION PAY ITEMS.
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4. SEE THE ITEM DETAIL & DRAINAGE SHEETS, DRAINAGE PROFILES, AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)
5. ALL EXISTING TELEPHONE & ELECTRIC MANHOLES SHALL BE ADJUSTED BY OTHERS.

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr_cp.C2 | PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: D. PECK
DESIGNED BY: D. PECK | CHECKED BY:
GENERAL PLAN #7 | SHEET 62 OF 339



CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS
SL STA 10+50 - 12+61 RT
SL STA 12+83 - 12+91 LT
SL STA 12+97 - 15+66 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
SL STA 13+04 - 13+80 RT

MANUFACTURED TERMINAL SECTION, FLARED
SL STA 13+31 - 13+80 RT

REMOVAL OF EXISTING FENCE
SL STA 12+25 - 12+58 RT
SL STA 13+24 - 15+21 RT

CHAIN-LINK FENCE, 8 FEET
SL STA 12+95 - 15+80 RT (VINYL COATED, PAINTED BLACK)

GATE FOR CHAIN-LINK FENCE, 8 FEET
SL STA 13+28 RT (18') (VINYL COATED, PAINTED BLACK)

CHAIN-LINK FENCE, 4 FEET
SL STA 12+25 - 12+44, RT

COLD PLANING, BITUMINOUS PAVEMENT
SL STA 11+75 - 12+66

STONE FILL, TYPE III
SL STA 14+57 RT
SL STA 15+28 RT
SL STA 15+59 RT

CONSTRUCT DRIVE
SL STA 13+11 RT (W/ 3" CURB REVEAL) (SEE SHEET #6)

NOTES:
1. ALL 8-FOOT HIGH CHAIN-LINK FENCE AND GATES FOR CHAIN-LINK FENCE, INCLUDING ASSOCIATED HARDWARE AND FURNISHINGS SHALL BE VINYL COATED, COLOR BLACK.
2. SEE THE ITEM DETAIL & DRAINAGE SHEETS, DRAINAGE PROFILES, AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)
3. SEE TRAFFIC SIGNAL PLANS FOR CONDUIT AND PULL BOX INFORMATION (SHEET 165).
4. ALL EXISTING TELEPHONE & ELECTRIC MANHOLES SHALL BE ADJUSTED BY OTHERS.

- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- BORING/AUGER LOCATIONS
- PROPOSED TRASH RECEPTACLE
- PROPOSED PARKING METER POST
- PROPOSED TREE LOCATION
- 4' x 5' PROPOSED TREE PIT
- PROPOSED FIRE HYDRANT

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b0110bdr_cp_C2 | PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: D. PECK
DESIGNED BY: D. PECK | CHECKED BY:
GENERAL PLAN #8 | SHEET 63 OF 339

PROPOSED GRANITE POST AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED SIGNAL POLE WITH LUMINAIRE
BORING/AUGER LOCATIONS
PROPOSED PARKING METER POST
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT

N
VT. STATE PLANE GRID

WELLINGTON STREET
FRANKLIN STREET
708+50
708+00
STA 707+80.00
END APPROACH
LIMITS OF PAVEMENT
B322
424+00
ELM STREET
423+00
STA 423+90.00
END APPROACH
LIMITS OF PAVEMENT
(FORMER) MATHEWSON SCHOOL
B323
707+00
706+00
GRAVEL DRIVE
CONCRETE SIDEWALK
ELM STREET

MATCH TO STA. 419+50 (SHEET 67)
SUMMER STREET
420+00
421+00
422+00
N/F SET ONE PROPERTIES LLC No. 9
PAVED LOT
N/F LENA & GEORGE A MOLLA No. 7
CONCRETE SIDEWALK
GRAVEL DRIVE
N/F JIMMY CULVER & PAUL DANIELSON No. 8
KEITH AVE. ONE WAY
GRAVEL LOT
B324
18" PEP
PAVED LOT
CONCRETE SIDEWALK
MATCH TO STA. 705+75 (SHEET 68)

COLD PLANING, BITUMINOUS PAVEMENT
SL STA 419+50 - 423+90
SL STA 422+07 - 422+16 LT
SL STA 705+75 - 707+80

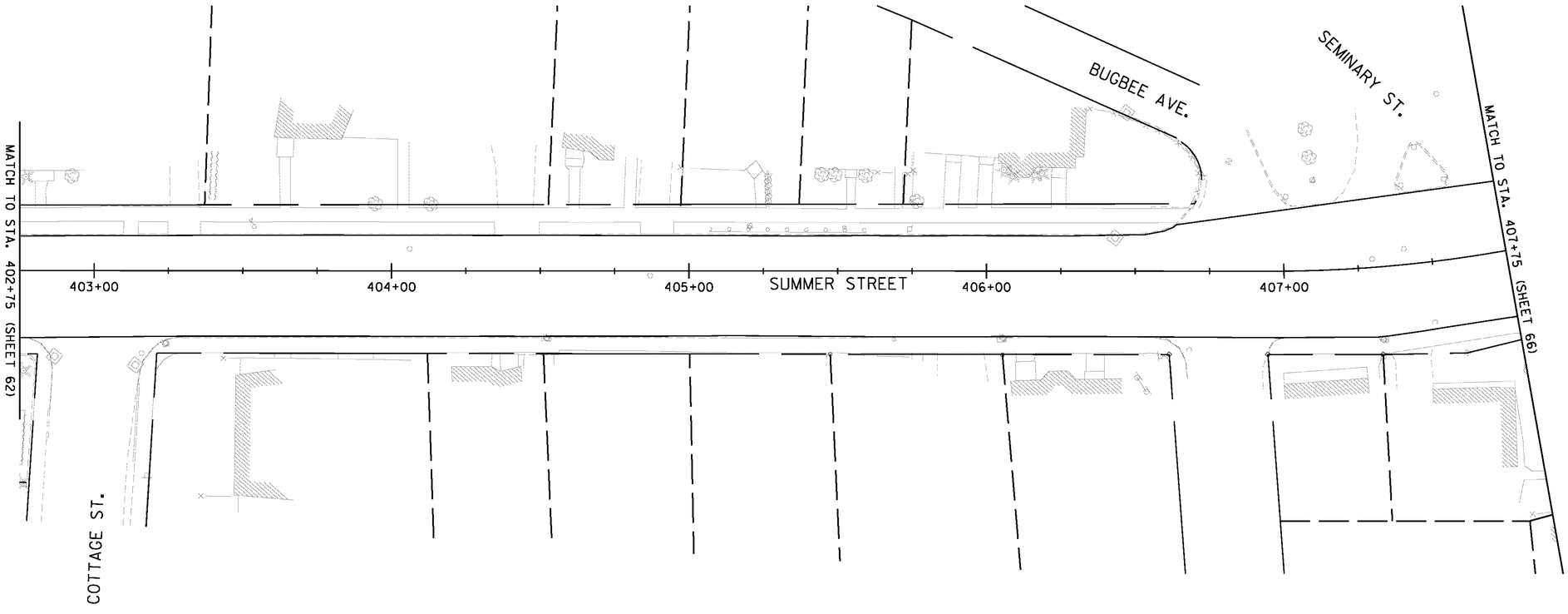
NOTES:
1. SAWCUT OF EXISTING PAVEMENT & SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION PAY ITEMS.
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4. SEE THE ITEM DETAIL & DRAINAGE SHEETS, DRAINAGE PROFILES, AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)
5. ALL EXISTING TELEPHONE & ELECTRIC MANHOLES SHALL BE ADJUSTED BY OTHERS.

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr_cp_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
GENERAL PLAN #9
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 64 OF 339

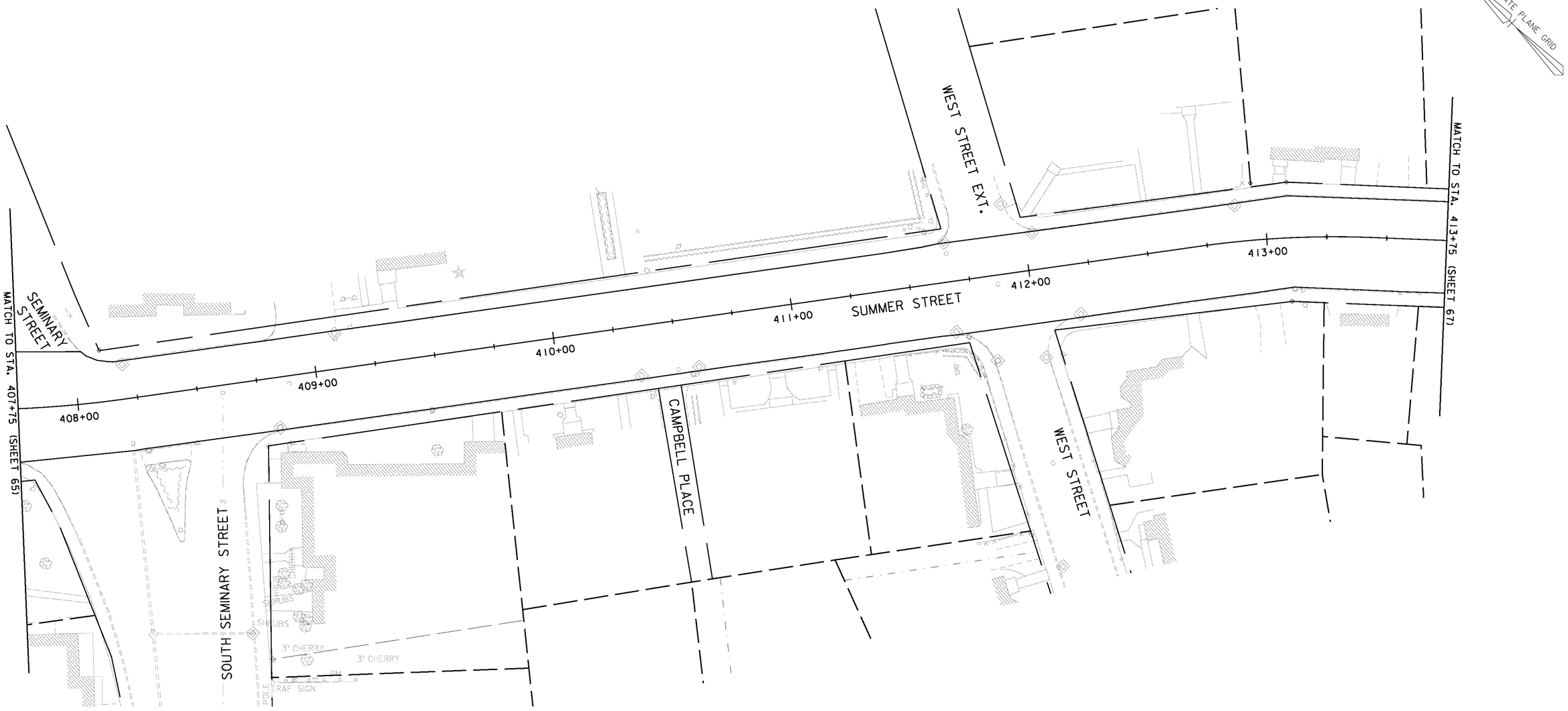


COLD PLANING, BITUMINOUS PAVEMENT
SL STA 402+75 - 407+75

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_cp_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
GENERAL PLAN #10	SHEET 65 OF 339



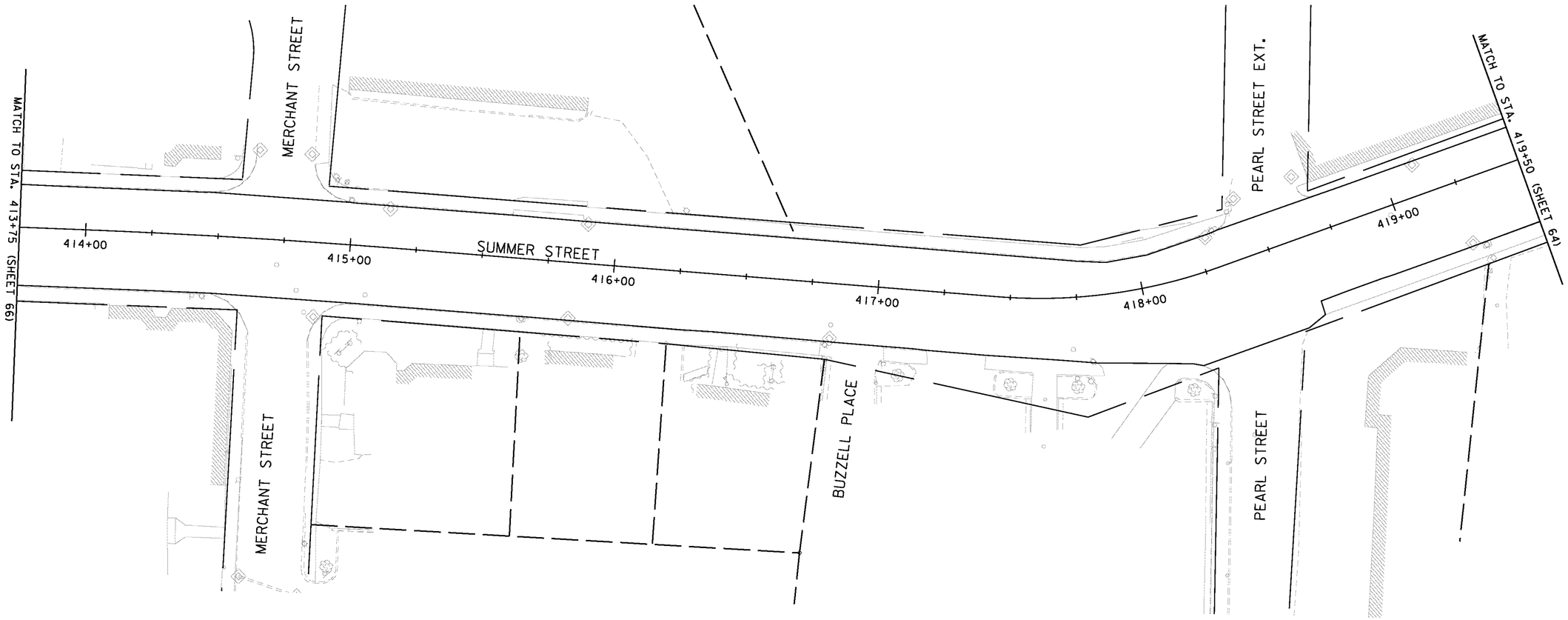
ADJUST ELEVATION OF VALVE BOX
SL STA 409+52, LT

COLD PLANING, BITUMINOUS PAVEMENT
SL STA 407+75 - 413+75

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_cp_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
GENERAL PLAN #11	SHEET 66 OF 339



COLD PLANING, BITUMINOUS PAVEMENT
SL STA 413+75 - 419+50

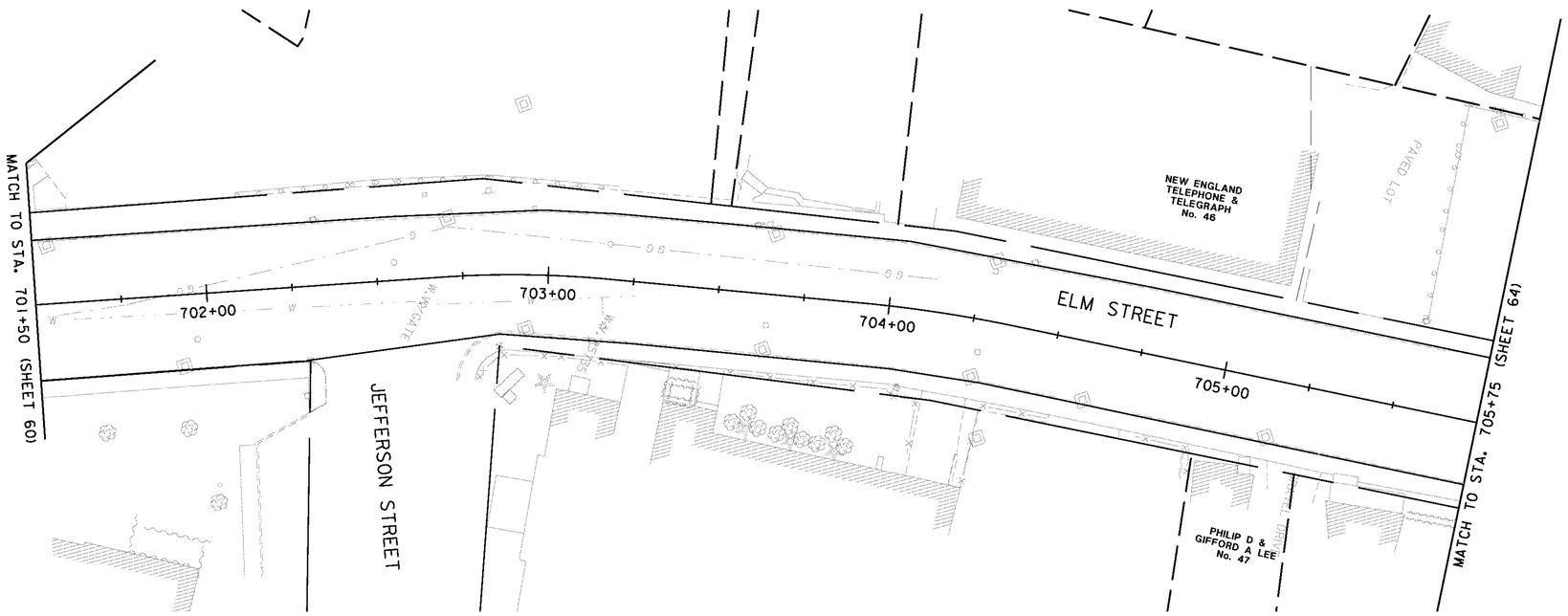
20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_cp_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
GENERAL PLAN #12	SHEET 67 OF 339

PROPOSED GRANITE POST AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED SIGNAL POLE WITH LUMINAIRE
BORING/AUGER LOCATIONS
PROPOSED TRASH RECEPTACLE
PROPOSED PARKING METER POST
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT

N
VT. STATE PLANE GRID



ADJUST ELEVATION OF VALVE BOX
SL STA 702+63, RT
SL STA 703+17, RT

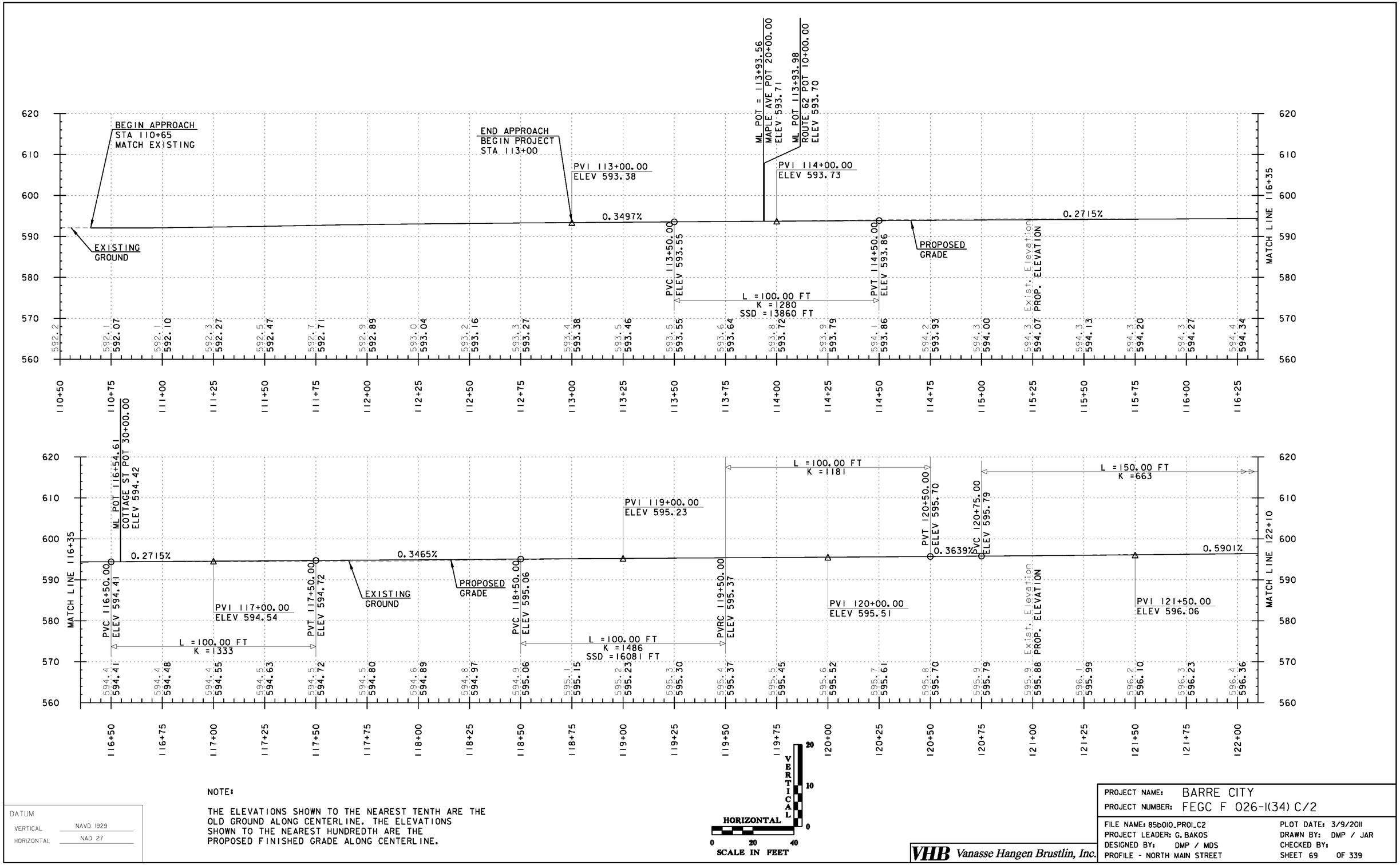
COLD PLANING & BITUMINOUS PAVEMENT
SL STA 701+50 - 705+75

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr_cp_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
GENERAL PLAN #13
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 68 OF 339



NOTE:

THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED FINISHED GRADE ALONG CENTERLINE.

DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY

PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85D010_PROI_C2

PROJECT LEADER: G. BAKOS

DESIGNED BY: DMP / MDS

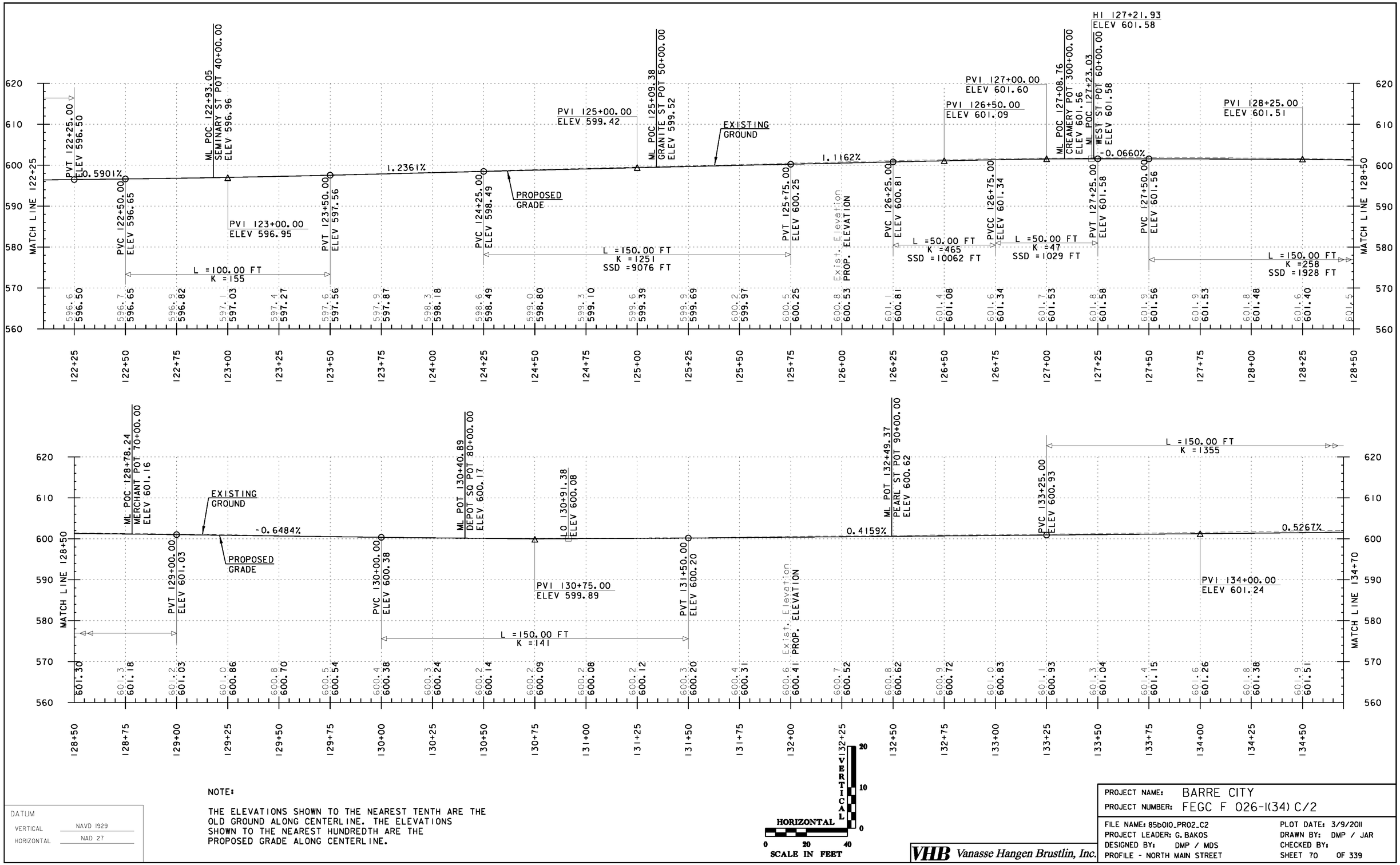
PROFILE - NORTH MAIN STREET

PLOT DATE: 3/9/2011

DRAWN BY: DMP / JAR

CHECKED BY:

SHEET 69 OF 339



NOTE:

THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GRADE ALONG CENTERLINE.

DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY

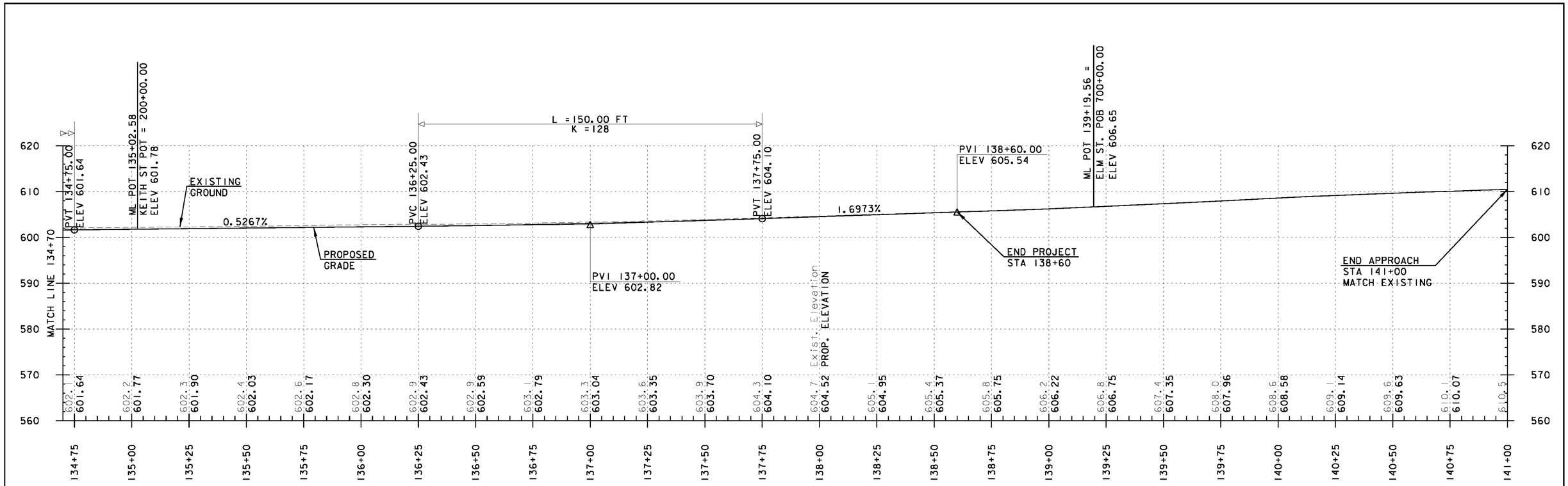
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85D010_PR02_C2 | PLOT DATE: 3/9/2011

PROJECT LEADER: G. BAKOS | DRAWN BY: DMP / JAR

DESIGNED BY: DMP / MDS | CHECKED BY:

PROFILE - NORTH MAIN STREET | SHEET 70 OF 339



DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

NOTE:

THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED FINISHED GRADE ALONG CENTERLINE.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY

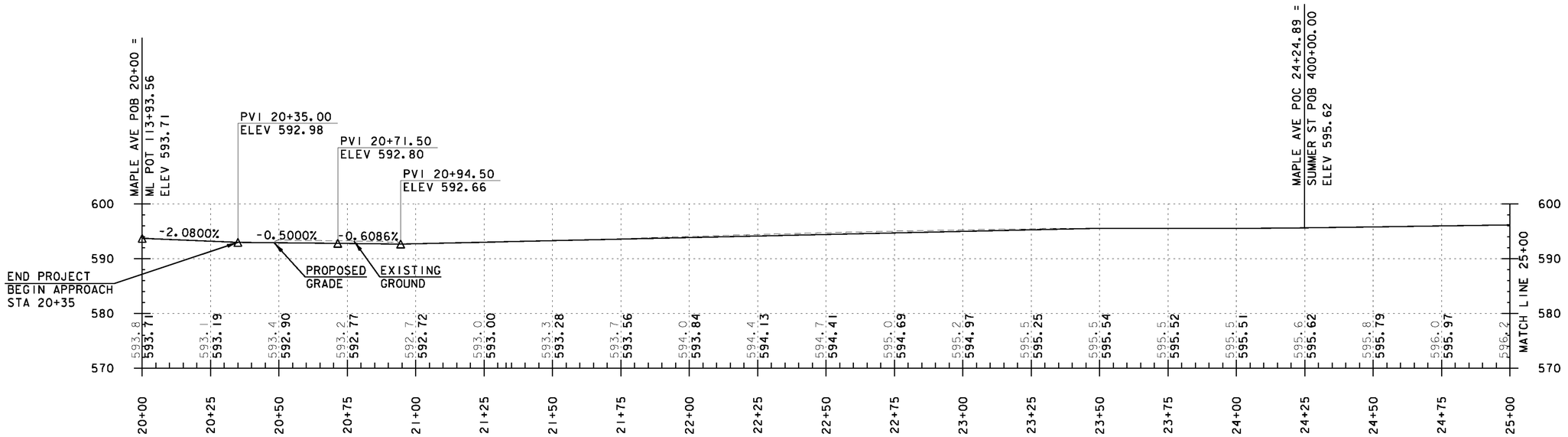
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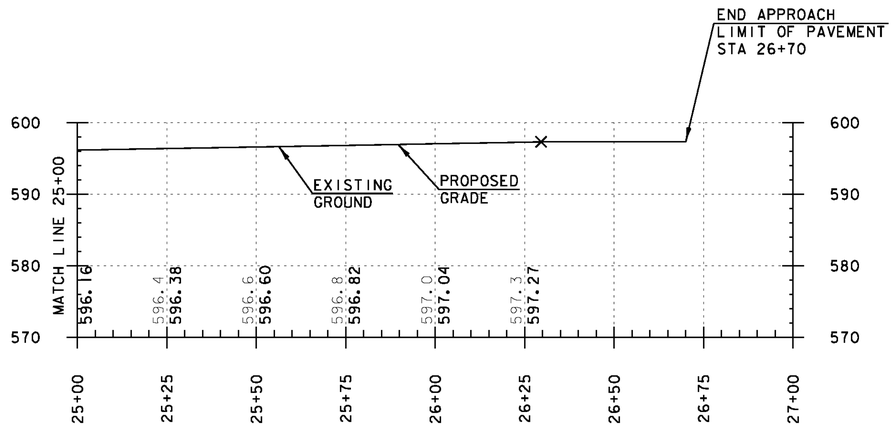
FILE NAME: 85D010_PR03_C2 PLOT DATE: 3/9/2011

PROJECT LEADER: G. BAKOS DRAWN BY: DMP / JAR

DESIGNED BY: DMP / MDS CHECKED BY:

PROFILE - NORTH MAIN STREET SHEET 71 OF 339





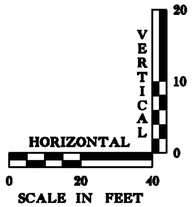
NOTE:

THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GROUND ALONG CENTERLINE.

DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

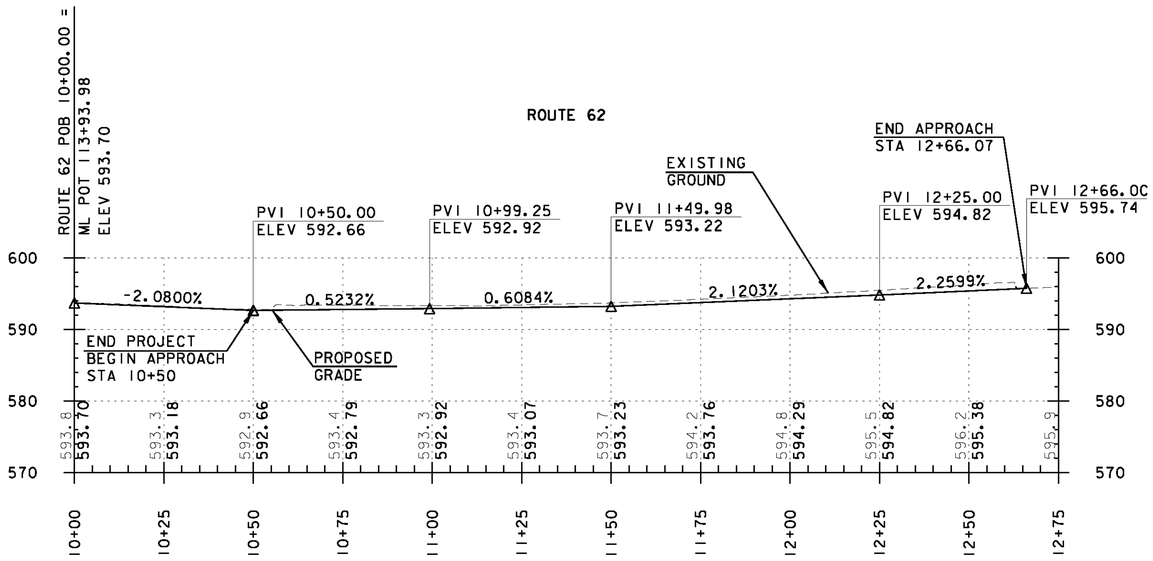


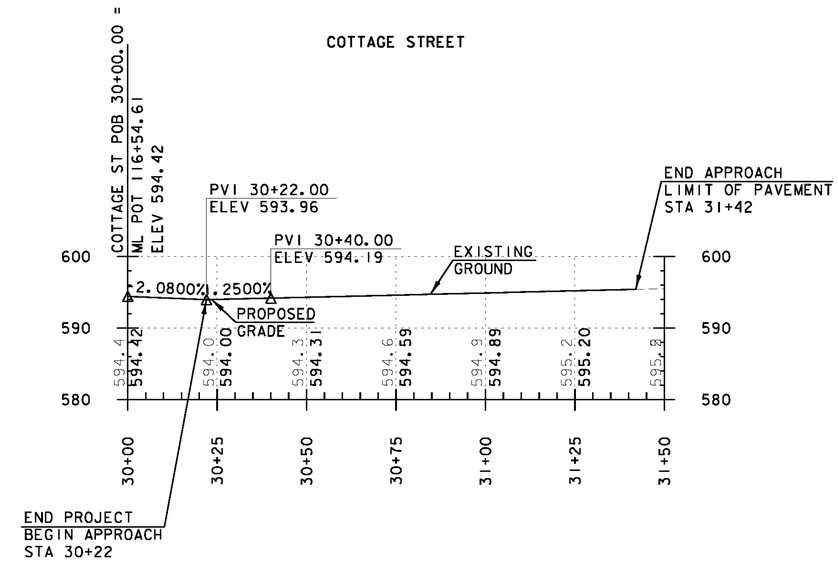
VHB Vanasse Hangen Brustlin, Inc.

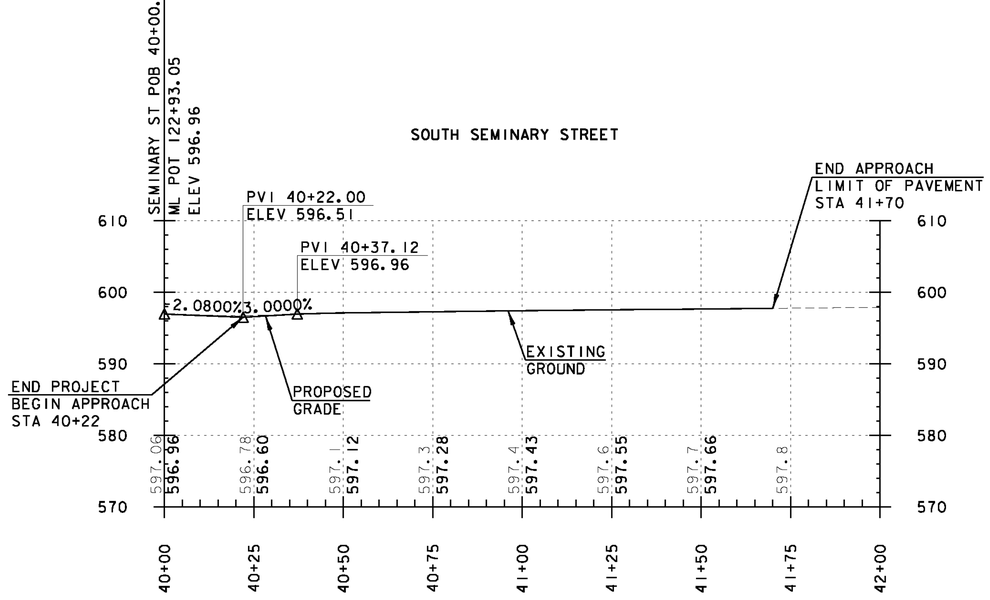
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

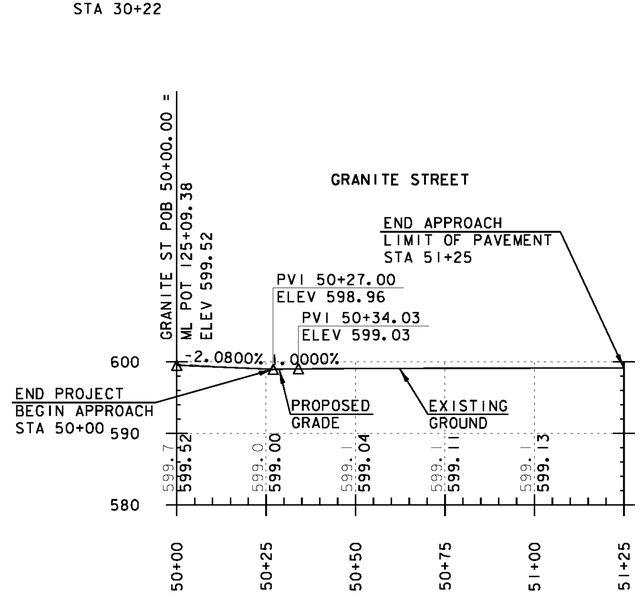
FILE NAME: 85D010_PR04_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
PROFILE - MAPLE AVENUE

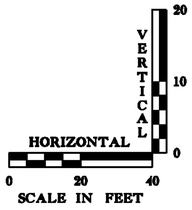
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 72 OF 339











DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

NOTE:

THE ELEVATIONS SHOWN TO THE NEAREST TENTH ARE THE OLD GROUND ALONG CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE PROPOSED GROUND ALONG CENTERLINE.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY

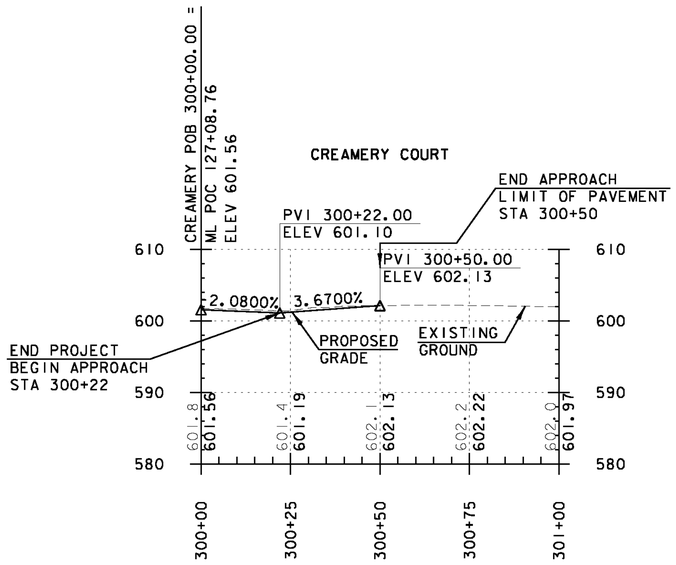
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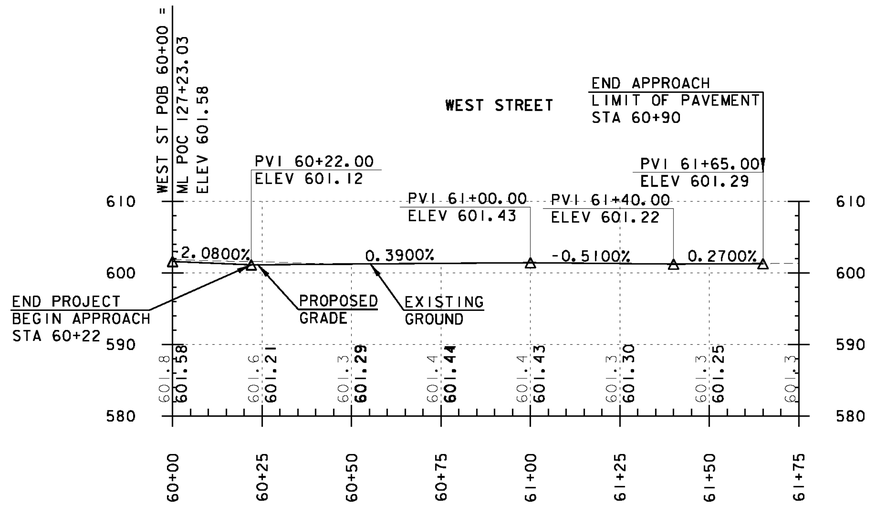
FILE NAME: 85b010_PR05_C2 | PLOT DATE: 3/9/2011

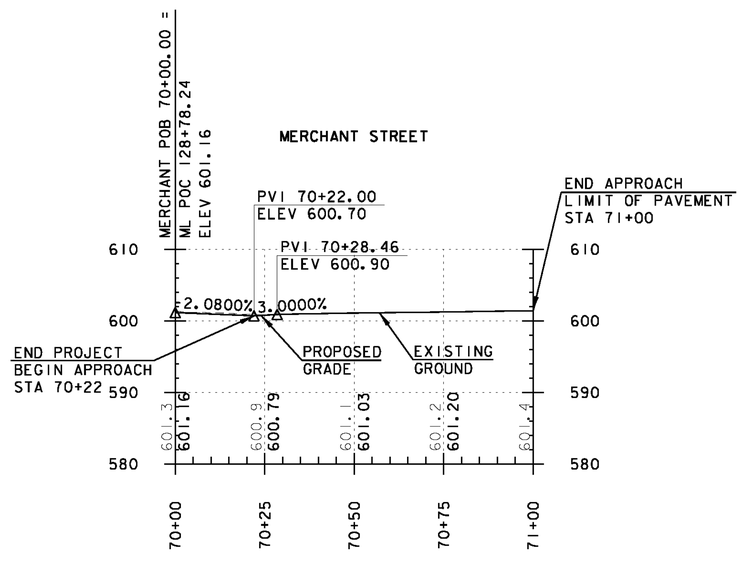
PROJECT LEADER: G. BAKOS | DRAWN BY: DMP / JAR

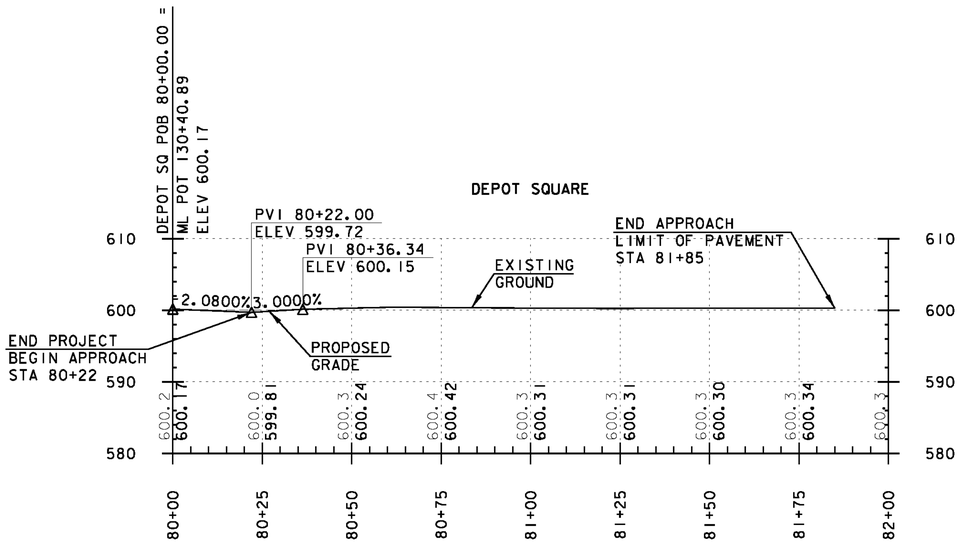
DESIGNED BY: DMP / MDS | CHECKED BY:

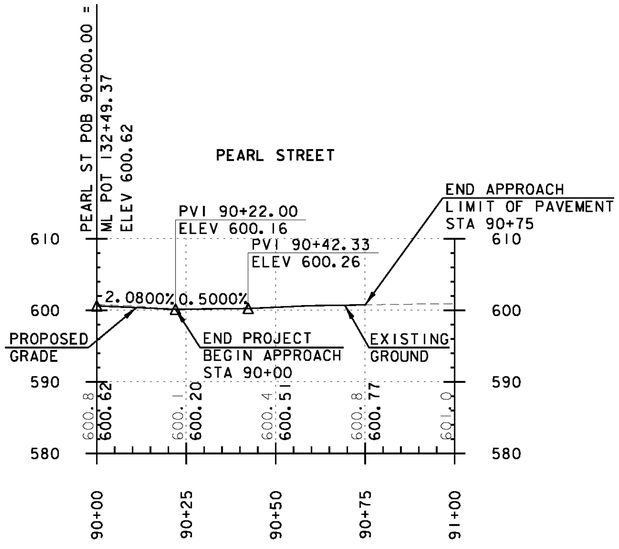
PROFILES - SIDE ROADS #1 | SHEET 73 OF 339

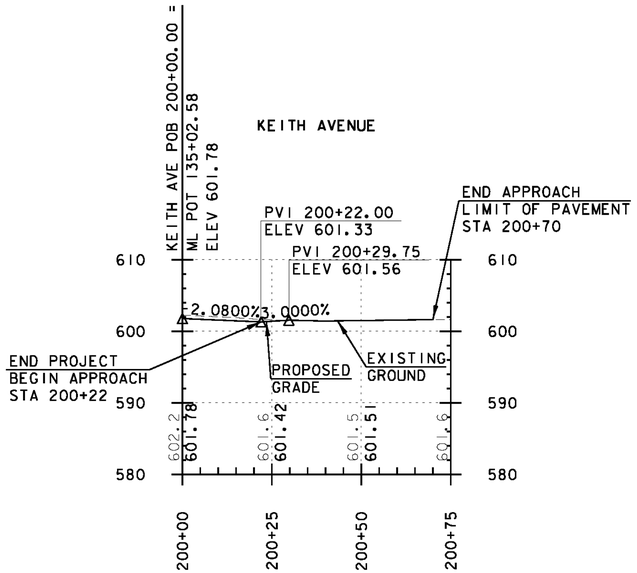


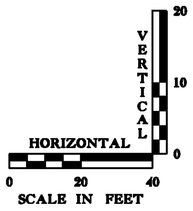












NOTE:

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DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

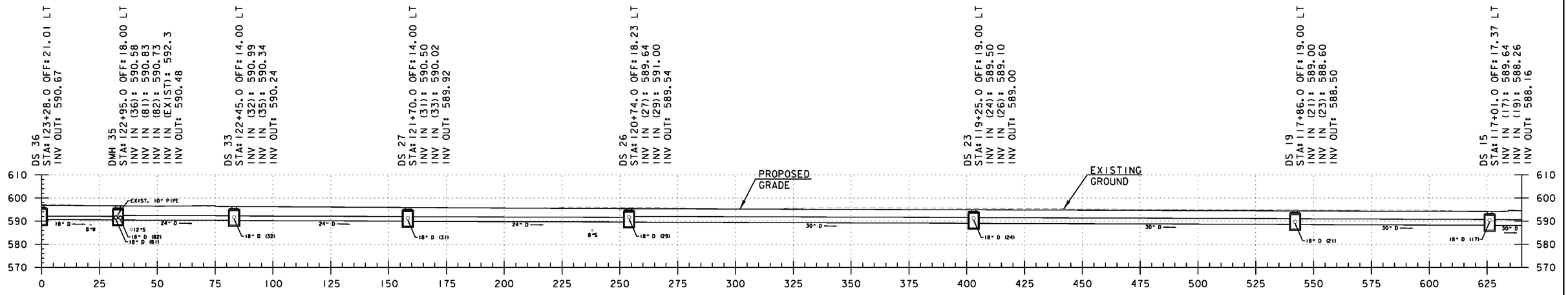
VHB Vanasse Hangen Brustlin, Inc.

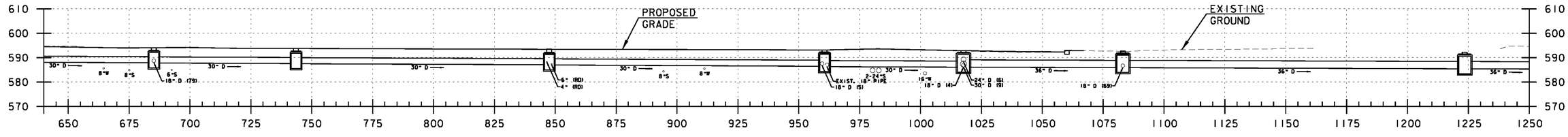
PROJECT NAME: BARRE CITY

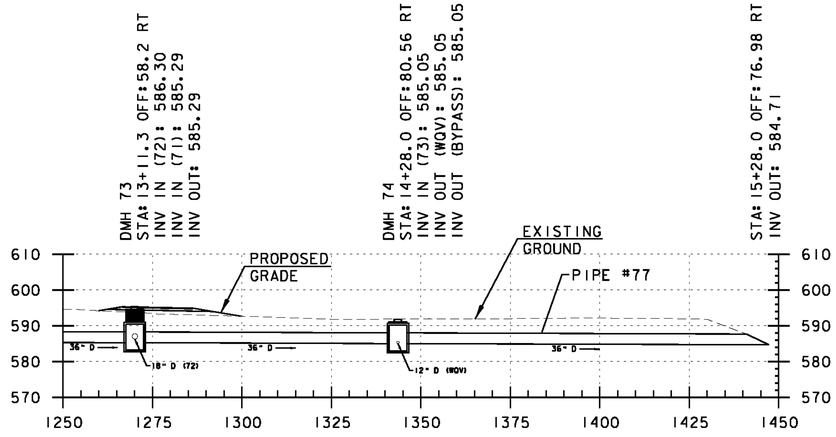
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_PR06_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
PROFILES - SIDE ROADS #2

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 74 OF 339







DRAINAGE RUN (36) TO (74)

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

0 20 40
SCALE IN FEET

NOTE:

INFORMATION REGARDING ROOF DRAINS IS NOT DISPLAYED ON THESE SHEETS. SEE ROOF DRAIN PROFILES.

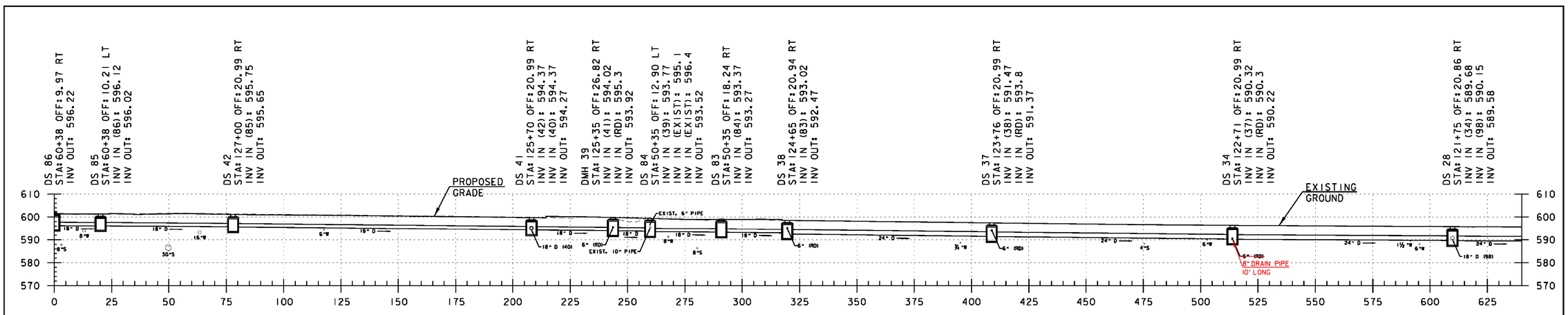
SOUTH SEMINARY ST. TO VT ROUTE 62

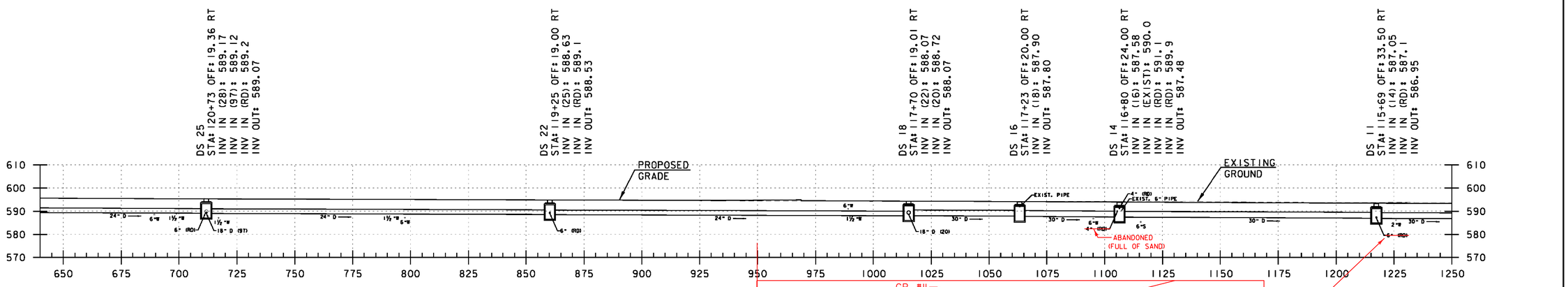
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

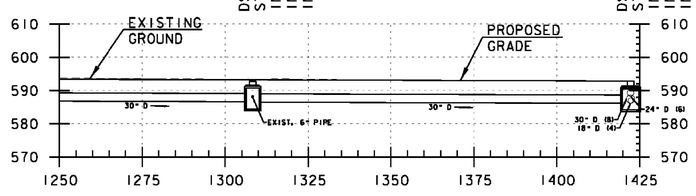
FILE NAME: 85D010_PROI_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
DRAINAGE PROFILES

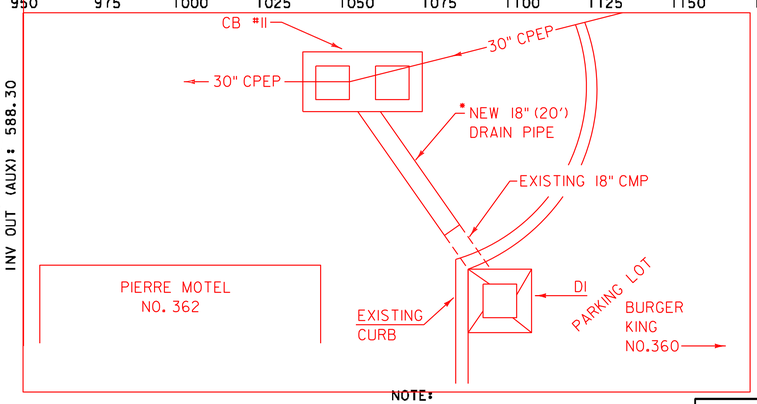
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 75 OF 339

VHB Vanasse Hangen Brustlin, Inc.









DRAINAGE RUN 86 TO 7

WEST STREET TO VT ROUTE 62

DATUM
VERTICAL: NAVD 1929
HORIZONTAL: NAD 27

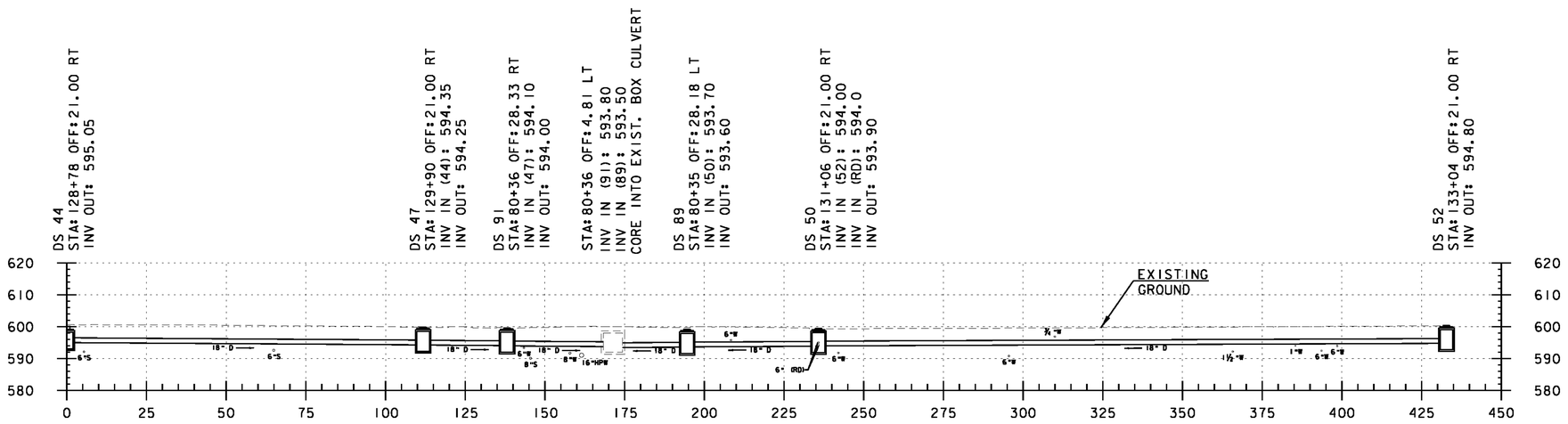
SCALE IN FEET
0 20 40

NOTE:
INFORMATION REGARDING ROOF DRAINS IS NOT DISPLAYED ON THESE SHEETS. SEE ROOF DRAIN PROFILES.

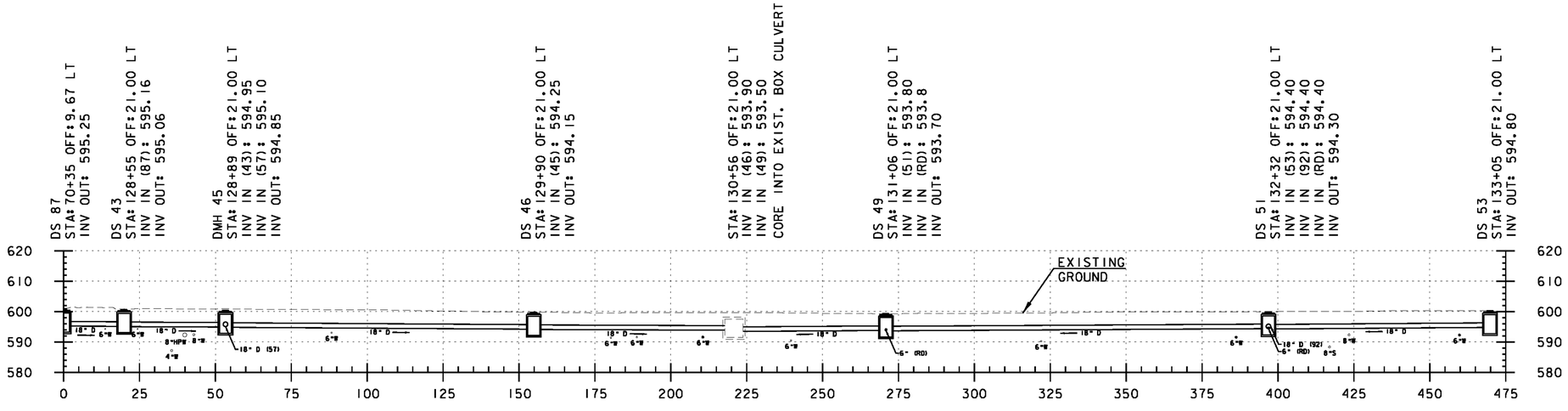
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85D010_PROI_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
DRAINAGE PROFILES
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 76 OF 339



DRAINAGE RUN (44) TO (52)



DRAINAGE RUN (87) TO (53)

DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

0 20 40

SCALE IN FEET

NOTE:

INFORMATION REGARDING ROOF DRAINS IS NOT DISPLAYED ON THESE SHEETS. SEE ROOF DRAIN PROFILES.

VHB Vanasse Hangen Brustlin, Inc.

POTASH BROOK BOX CULVERT

PROJECT NAME: BARRE CITY

PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85D010_PROI_C2

PROJECT LEADER: G. BAKOS

DESIGNED BY: DMP / MDS

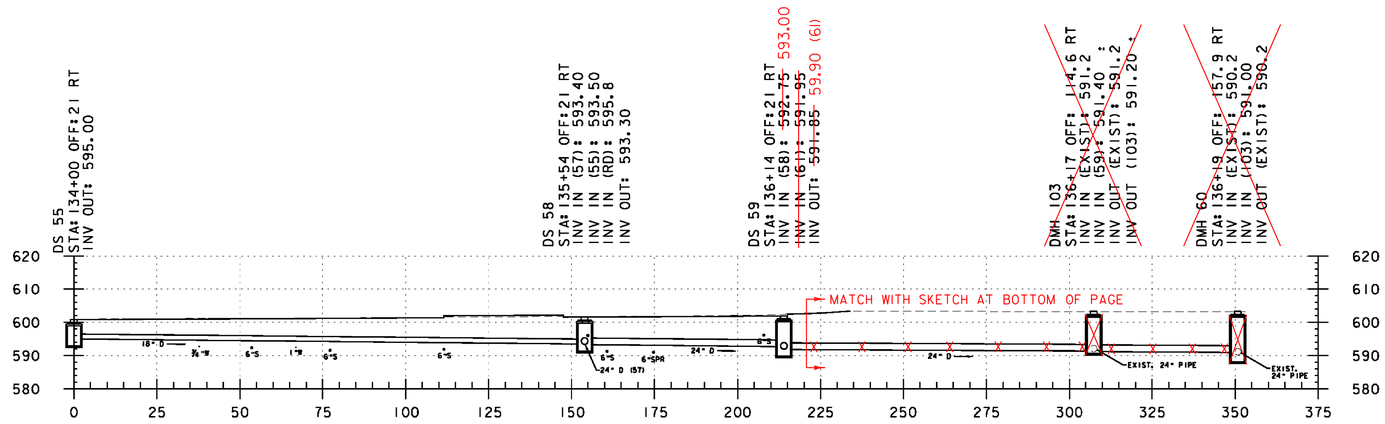
DRAINAGE PROFILES

PLOT DATE: 3/9/2011

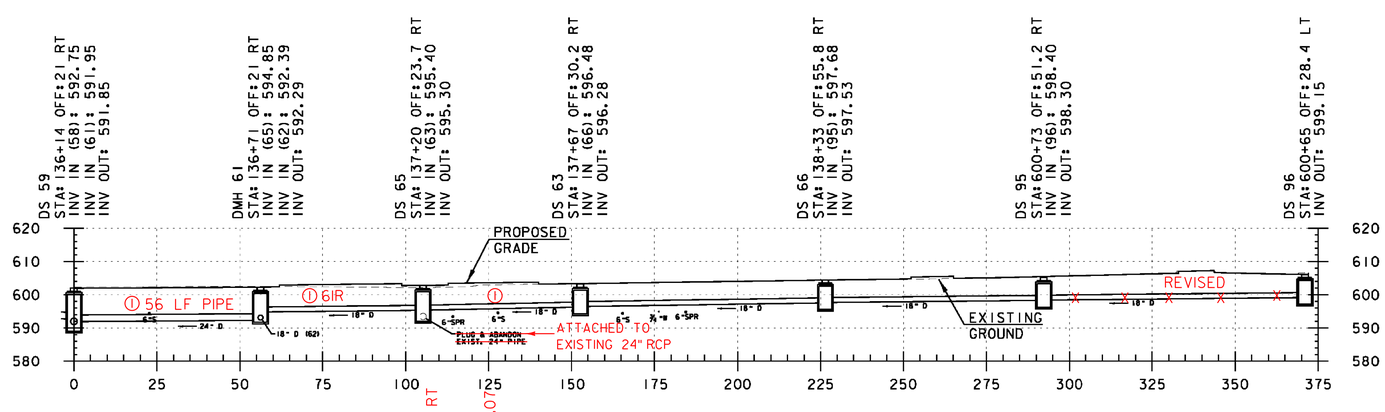
DRAWN BY: DMP / JAR

CHECKED BY:

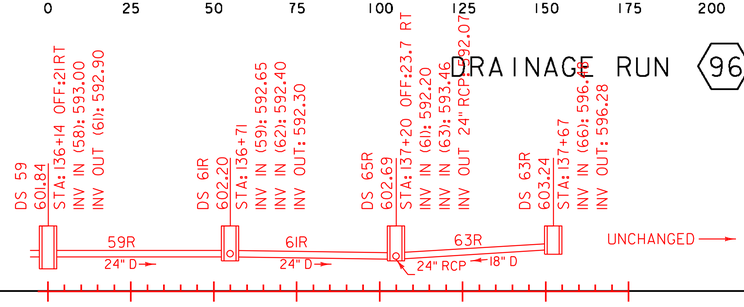
SHEET 77 OF 339



DRAINAGE RUN 55 TO 60



DRAINAGE RUN 96 TO 59



NOTE:

INFORMATION REGARDING ROOF DRAINS IS NOT DISPLAYED ON THESE SHEETS. SEE ROOF DRAIN PROFILES.

SCALE IN FEET
0 20 40

VHB Vanasse Hangen Brustlin, Inc.

ALLEY WAY OUTLET

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: 85b010_PROI_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
DRAINAGE PROFILES	SHEET 78 OF 339

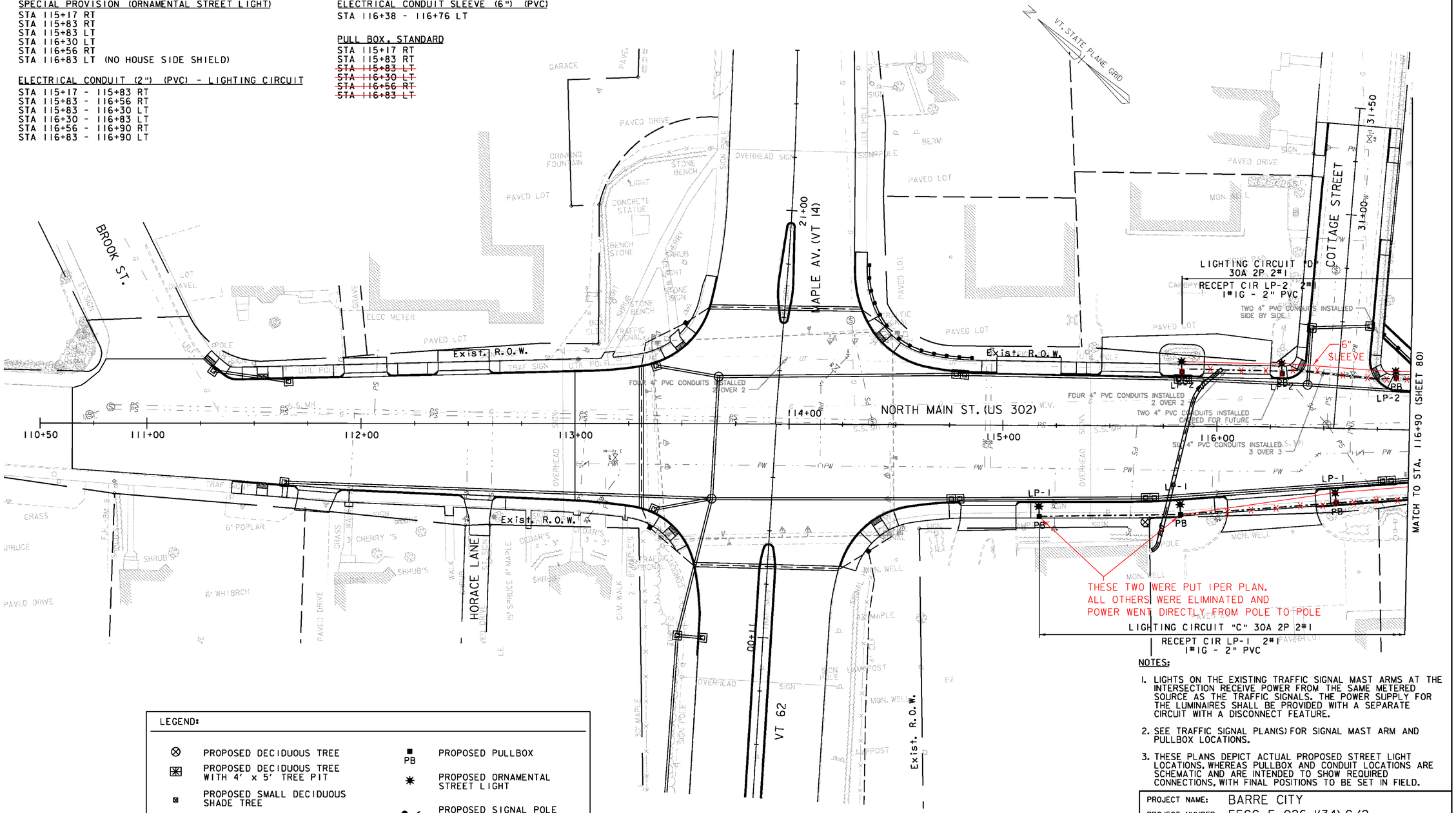
① DRAINAGE RUN REVISED TO UTILIZE EXISTING 24" RCP RATHER THAN INSTALL DRAINAGE RUN #59. DRAINAGE RUN #59 COULD NOT BE CONSTRUCTED DUE TO UNKNOWN OBSTUCLES BENEATH THE PEDESTRIAN WALKWAY.

SPECIAL PROVISION (ORNAMENTAL STREET LIGHT)
STA 115+17 RT
STA 115+83 RT
STA 115+83 LT
STA 116+30 LT
STA 116+56 RT
STA 116+83 LT (NO HOUSE SIDE SHIELD)

ELECTRICAL CONDUIT (2") (PVC) - LIGHTING CIRCUIT
STA 115+17 - 115+83 RT
STA 115+83 - 116+56 RT
STA 115+83 - 116+30 LT
STA 116+30 - 116+83 LT
STA 116+56 - 116+90 RT
STA 116+83 - 116+90 LT

ELECTRICAL CONDUIT SLEEVE (6") (PVC)
STA 116+38 - 116+76 LT

PULL BOX, STANDARD
STA 115+17 RT
STA 115+83 RT
~~STA 115+83 LT~~
~~STA 116+30 LT~~
~~STA 116+56 RT~~
~~STA 116+83 LT~~



LEGEND:

- PROPOSED DECIDUOUS TREE
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SMALL DECIDUOUS SHADE TREE
- PROPOSED LIGHTING CONDUIT
- PROPOSED LIGHTING CONDUIT & SLEEVE
- PB PROPOSED PULLBOX
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED FAIRPOINT DUCT BANK CONDUIT

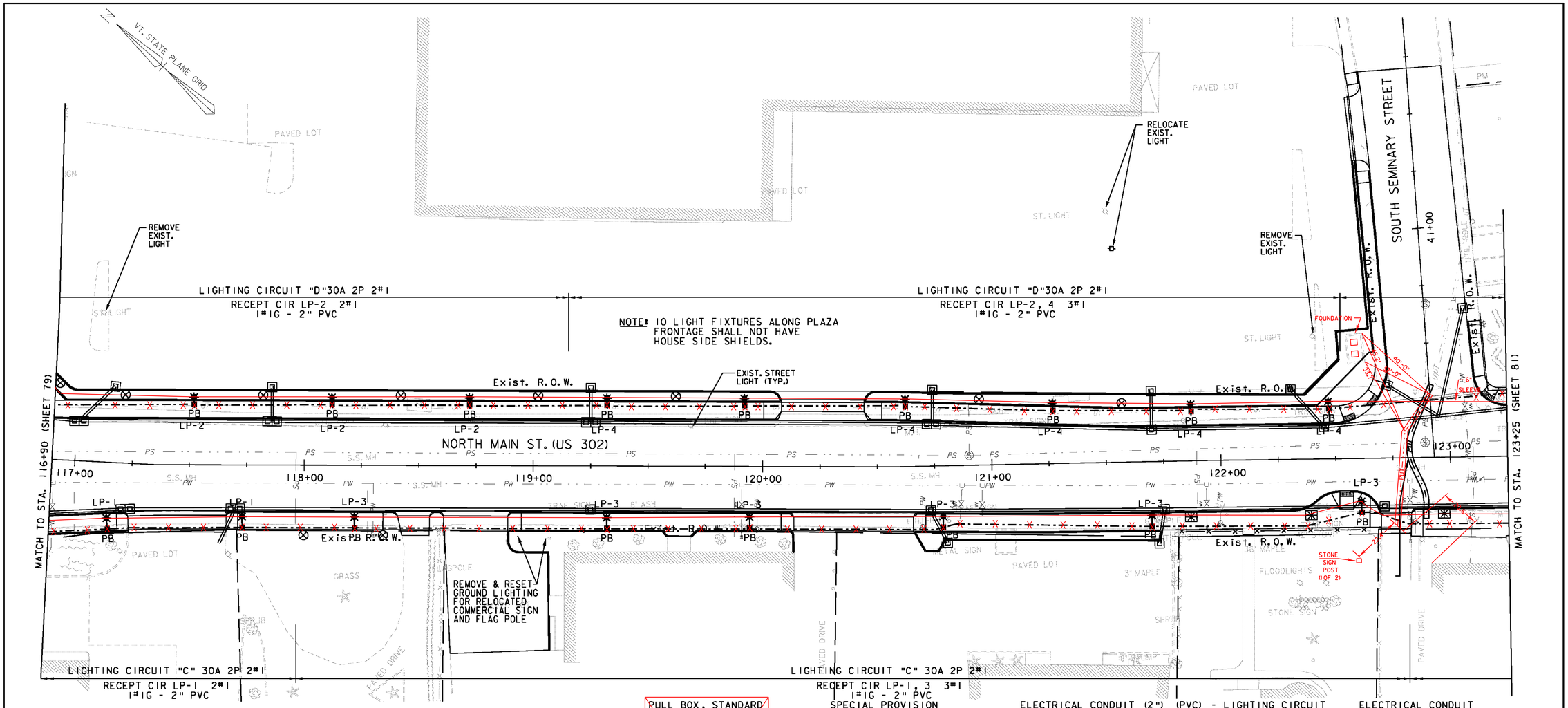
NOTES:

1. LIGHTS ON THE EXISTING TRAFFIC SIGNAL MAST ARMS AT THE INTERSECTION RECEIVE POWER FROM THE SAME METERED SOURCE AS THE TRAFFIC SIGNALS. THE POWER SUPPLY FOR THE LUMINAIRES SHALL BE PROVIDED WITH A SEPARATE CIRCUIT WITH A DISCONNECT FEATURE.
2. SEE TRAFFIC SIGNAL PLAN(S) FOR SIGNAL MAST ARM AND PULLBOX LOCATIONS.
3. THESE PLANS DEPICT ACTUAL PROPOSED STREET LIGHT LOCATIONS, WHEREAS PULLBOX AND CONDUIT LOCATIONS ARE SCHEMATIC AND ARE INTENDED TO SHOW REQUIRED CONNECTIONS, WITH FINAL POSITIONS TO BE SET IN FIELD.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr_lt_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
STREET LIGHTING PLAN #1
PLOT DATE: 3/23/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 79 OF 339



REMOVING AND RESETTING LIGHT POLE
STA 121+52, LT 109' - 121+54, LT 93'

SPECIAL PROVISION (REMOVE EXISTING LIGHT POLE)
STA 117+10, LT
STA 122+40, LT

LEGEND:

- PROPOSED DECIDUOUS TREE
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SMALL DECIDUOUS SHADE TREE
- PROPOSED LIGHTING CONDUIT
- PROPOSED LIGHTING CONDUIT & SLEEVE
- PROPOSED PULLBOX
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED FAIRPOINT DUCT BANK CONDUIT

PULL BOX, STANDARD
STA 117+15 RT
STA 117+52 LT
STA 117+73 RT
STA 118+12 LT
STA 118+22 RT
STA 118+72 LT
STA 119+32 LT
STA 119+32 RT
STA 119+92 LT
STA 119+94 RT
STA 120+63 LT
STA 120+78 RT
STA 121+27 LT
STA 121+69 RT
STA 121+87 LT
STA 122+47 LT
STA 122+61 RT

SPECIAL PROVISION
(REMOVING AND RESETTING GROUND/ORNAMENTAL LIGHT)
STA 118+96 RT (GHCU)
STA 119+07 RT (GHCU)

SPECIAL PROVISION
(ORNAMENTAL STREET LIGHT)

STA 117+15 RT	
STA 117+52 LT	(NO SHIELD)
STA 117+73 RT	
STA 118+12 LT	(NO SHIELD)
STA 118+22 RT	
STA 118+72 LT	(NO SHIELD)
STA 119+32 LT	(NO SHIELD)
STA 119+32 RT	
STA 119+92 LT	(NO SHIELD)
STA 119+94 RT	
STA 120+63 LT	(NO SHIELD)
STA 120+78 RT	
STA 121+27 LT	(NO SHIELD)
STA 121+69 RT	
STA 121+87 LT	(NO SHIELD)
STA 122+47 LT	(NO SHIELD)
STA 122+61 RT	

ELECTRICAL CONDUIT (2") (PVC) - LIGHTING CIRCUIT

STA 116+90 -	117+15 RT
STA 116+90 -	117+52 LT
STA 117+15 -	117+73 RT
STA 117+52 -	118+12 LT
STA 117+73 -	118+22 RT
STA 118+12 -	118+72 LT
STA 118+22 -	119+32 RT
STA 118+72 -	119+32 LT
STA 119+32 -	119+92 LT
STA 119+32 -	119+94 RT
STA 119+92 -	120+63 LT
STA 119+94 -	120+78 RT
STA 120+78 -	122+61 RT
STA 120+63 -	121+27 LT
STA 121+27 -	121+87 LT
STA 121+87 -	122+47 LT
STA 122+47 -	123+25 LT
STA 122+61 -	123+25 RT

ELECTRICAL CONDUIT SLEEVE (6") (PVC)
STA 122+66 - 123+13 LT

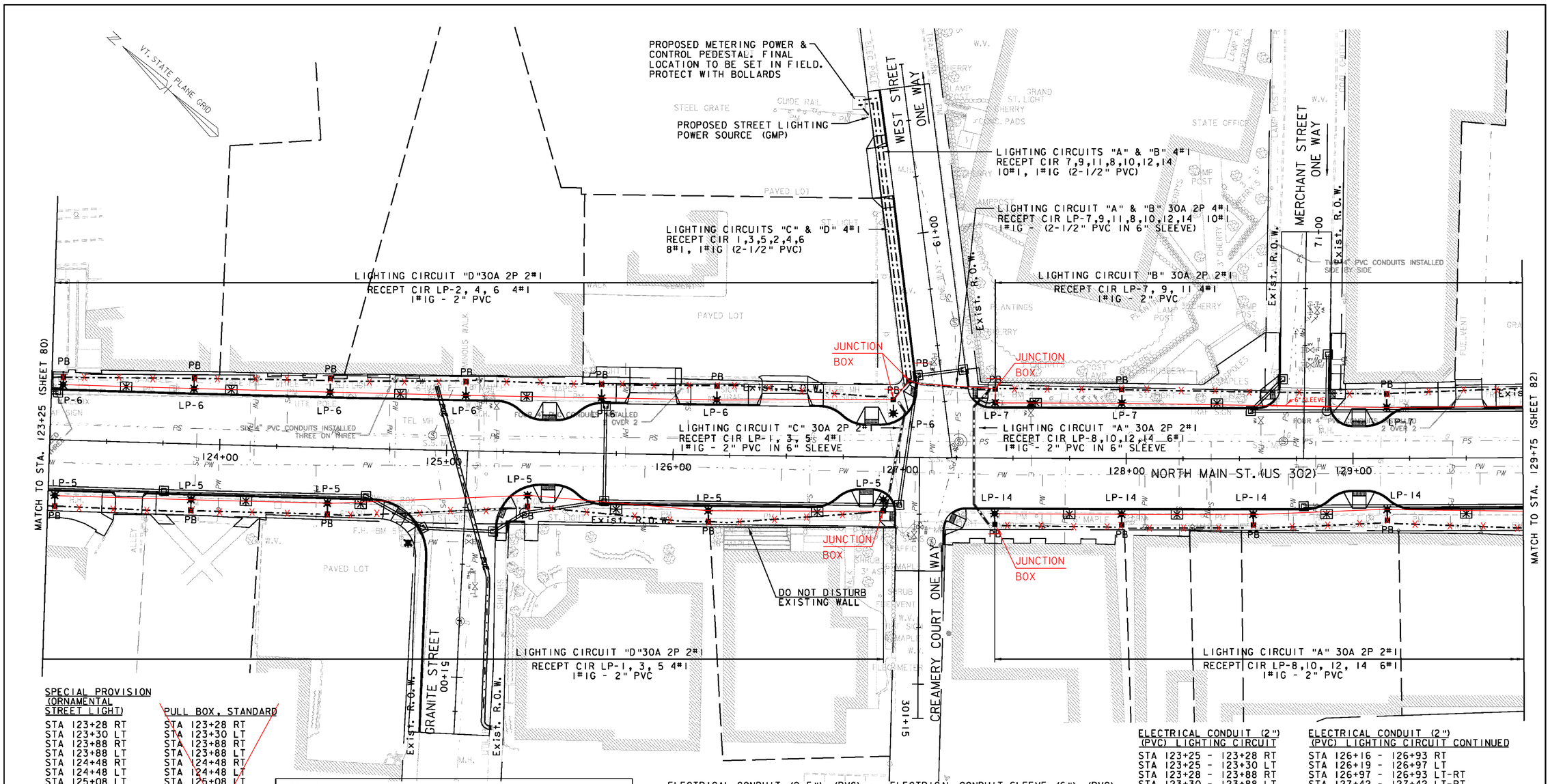
NOTES:

1. THESE PLANS DEPICT ACTUAL PROPOSED STREET LIGHT LOCATIONS, WHEREAS PULLBOX AND CONDUIT LOCATIONS ARE SCHEMATIC AND ARE INTENDED TO SHOW REQUIRED CONNECTIONS, WITH FINAL POSITIONS TO BE SET IN FIELD.

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z85b010bdr_lt_C2	PLOT DATE: 3/23/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
STREET LIGHTING PLAN #2	SHEET 80 OF 339



SPECIAL PROVISION (ORNAMENTAL STREET LIGHT)	PULL BOX, STANDARD
STA 123+28 RT	STA 123+28 RT
STA 123+30 LT	STA 123+30 LT
STA 123+88 RT	STA 123+88 RT
STA 123+88 LT	STA 123+88 LT
STA 124+48 RT	STA 124+48 RT
STA 124+48 LT	STA 124+48 LT
STA 125+08 LT	STA 125+08 LT
STA 125+36 RT	STA 125+36 RT
STA 125+68 LT	STA 125+68 LT
STA 126+16 RT	STA 126+16 RT
STA 126+19 LT	STA 126+19 LT
STA 126+93 RT	STA 126+93 RT
STA 126+97 LT	STA 126+97 LT
STA 127+42 RT	STA 127+42 RT
STA 127+42 LT	STA 127+42 LT
STA 127+98 RT	STA 127+98 RT
STA 127+98 LT	STA 127+98 LT
STA 128+56 RT	STA 128+56 RT
STA 129+15 RT	STA 129+15 RT
STA 129+15 LT	STA 129+15 LT
	SL STA 60+35 LT

LEGEND:

- PROPOSED DECIDUOUS TREE
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SMALL DECIDUOUS SHADE TREE
- PROPOSED LIGHTING CONDUIT
- PROPOSED LIGHTING CONDUIT & SLEEVE
- PB PROPOSED PULLBOX
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED FAIRPOINT DUCT BANK CONDUIT

ELECTRICAL CONDUIT (2.5") (PVC) - LIGHTING CIRCUIT

STA 126+97 LT - SL STA 60+36 LT
STA 127+42 LT - SL STA 60+36 LT
SL STA 60+36 - 61+60 LT
SL STA 60+36 - 61+60 LT

ELECTRICAL CONDUIT SLEEVE (6") (PVC)

STA 124+82 - 125+26 RT
STA 126+96 - 126+99 RT-LT
STA 127+04 - 127+40 LT
STA 127+39 - 127+40 LT-RT
STA 128+66 - 128+91 LT

BOLLARDS

SL STA 61+60 LT (4)

JUNCTION ~~PULL BOX, STANDARD~~

1 SL STA 60+36 LT
2 LOCATED @
3 WEST ST. INTERSECTION
4

ELECTRICAL CONDUIT (2") (PVC) LIGHTING CIRCUIT

STA 123+25 - 123+28 RT
STA 123+25 - 123+30 LT
STA 123+28 - 123+88 RT
STA 123+30 - 123+88 LT
STA 123+88 - 124+48 RT
STA 123+88 - 124+48 LT
STA 124+48 - 125+08 LT
STA 124+48 - 125+36 RT
STA 125+08 - 125+68 LT
STA 125+36 - 126+16 RT
STA 125+68 - 126+19 LT

ELECTRICAL CONDUIT (2") (PVC) LIGHTING CIRCUIT CONTINUED

STA 126+16 - 126+93 RT
STA 126+19 - 126+97 LT
STA 126+97 - 126+93 LT-RT
STA 127+42 - 127+42 LT-RT
STA 127+42 - 127+98 RT
STA 127+42 - 127+98 LT
STA 127+98 - 128+56 RT
STA 127+98 - 129+15 LT
STA 128+56 - 129+15 RT
STA 129+15 - 129+75 LT
STA 129+15 - 129+75 RT

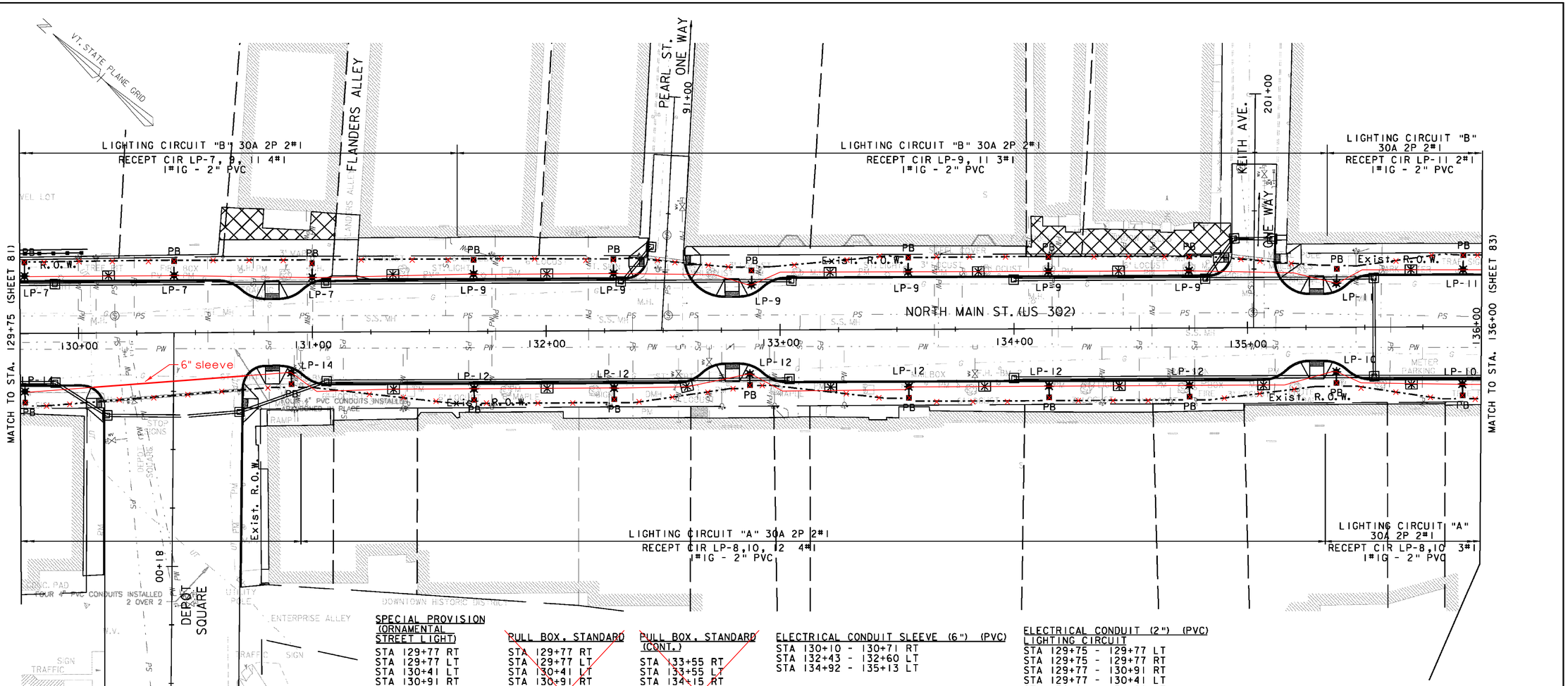
NOTES:

1. THESE PLANS DEPICT ACTUAL PROPOSED STREET LIGHT LOCATIONS, WHEREAS PULLBOX AND CONDUIT LOCATIONS ARE SCHEMATIC AND ARE INTENDED TO SHOW REQUIRED CONNECTIONS, WITH FINAL POSITIONS TO BE SET IN FIELD.

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010bdr_lt_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
STREET LIGHTING PLAN #3	SHEET 81 OF 339



SPECIAL PROVISION (ORNAMENTAL STREET LIGHT)

STA 129+77 RT
STA 129+77 LT
STA 130+41 LT
STA 130+91 RT
STA 131+00 LT
STA 131+69 RT
STA 131+69 LT
STA 132+29 RT
STA 132+29 LT
STA 132+87 RT
STA 132+88 LT
STA 133+55 RT
STA 133+55 LT
STA 134+15 RT
STA 134+15 LT
STA 134+75 RT
STA 134+75 LT
STA 135+38 RT
STA 135+38 LT
STA 135+92 RT
STA 135+92 LT

PULL BOX, STANDARD

STA 129+77 RT
STA 129+77 LT
STA 130+41 LT
STA 130+91 RT
STA 131+00 LT
STA 131+69 RT
STA 131+69 LT
STA 132+29 RT
STA 132+29 LT
STA 132+87 RT
STA 132+88 LT

PULL BOX, STANDARD (CONT.)

STA 133+55 RT
STA 133+55 LT
STA 134+15 RT
STA 134+75 RT
STA 134+75 LT
STA 135+38 RT
STA 135+92 RT
STA 135+92 LT

ELECTRICAL CONDUIT SLEEVE (6") (PVC)

STA 130+10 - 130+71 RT
STA 132+43 - 132+60 LT
STA 134+92 - 135+13 LT

ELECTRICAL CONDUIT (2") (PVC) LIGHTING CIRCUIT

STA 129+75 - 129+77 LT
STA 129+75 - 129+77 RT
STA 129+77 - 130+91 RT
STA 129+77 - 130+41 LT
STA 130+41 - 131+00 LT
STA 130+91 - 131+69 RT
STA 131+00 - 131+69 LT
STA 131+69 - 132+29 RT
STA 131+69 - 132+29 LT
STA 132+29 - 132+88 LT
STA 132+29 - 132+87 RT
STA 132+87 - 133+55 RT
STA 132+88 - 133+55 LT
STA 133+55 - 134+15 LT
STA 133+55 - 134+15 RT
STA 134+15 - 134+75 RT
STA 134+15 - 134+75 LT
STA 134+75 - 135+38 LT
STA 134+75 - 135+38 RT
STA 135+38 - 135+92 RT
STA 135+38 - 135+92 LT
STA 135+92 - 136+00 LT
STA 135+92 - 136+00 RT

LEGEND:

- PROPOSED DECIDUOUS TREE
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SMALL DECIDUOUS SHADE TREE
- PROPOSED LIGHTING CONDUIT
- PROPOSED LIGHTING CONDUIT & SLEEVE
- PB PROPOSED PULLBOX
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED FAIRPOINT DUCT BANK CONDUIT

NOTES:

1. THESE PLANS DEPICT ACTUAL PROPOSED STREET LIGHT LOCATIONS, WHEREAS PULLBOX AND CONDUIT LOCATIONS ARE SCHEMATIC AND ARE INTENDED TO SHOW REQUIRED CONNECTIONS, WITH FINAL POSITIONS TO BE SET IN FIELD.

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

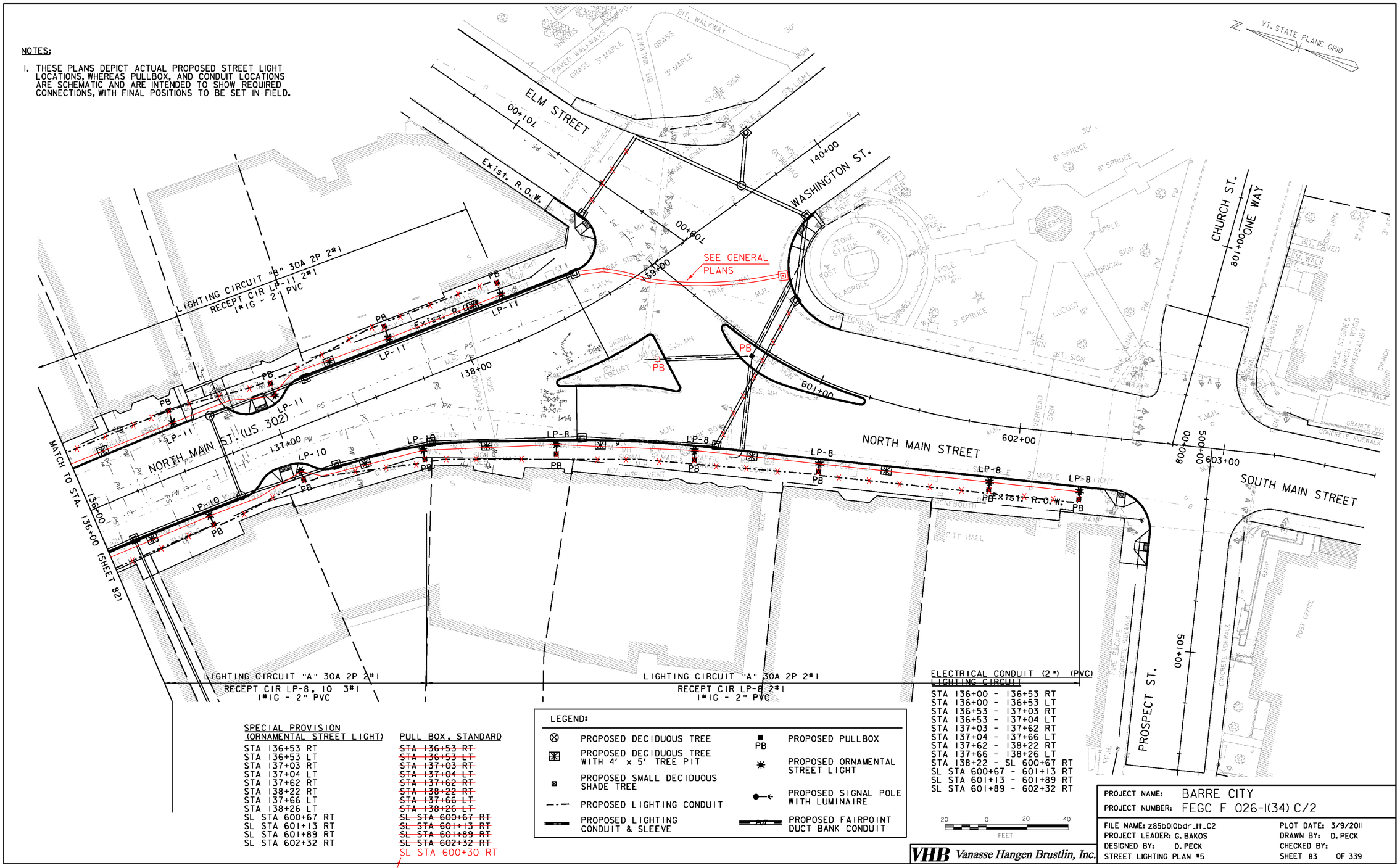
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b0l0bdr_lt_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
STREET LIGHTING PLAN #4

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 82 OF 339

NOTES:

1. THESE PLANS DEPICT ACTUAL PROPOSED STREET LIGHT LOCATIONS, WHEREAS PULLBOX, AND CONDUIT LOCATIONS ARE SCHEMATIC AND ARE INTENDED TO SHOW REQUIRED CONNECTIONS, WITH FINAL POSITIONS TO BE SET IN FIELD.



SPECIAL PROVISION
(ORNAMENTAL STREET LIGHT)

STA 136+53 RT
STA 136+53 LT
STA 137+03 RT
STA 137+04 LT
STA 137+62 RT
STA 138+22 RT
STA 137+66 LT
STA 138+26 LT
SL STA 600+67 RT
SL STA 601+13 RT
SL STA 601+89 RT
SL STA 602+32 RT

PULL BOX, STANDARD

~~STA 136+53 RT~~
~~STA 136+53 LT~~
~~STA 137+03 RT~~
~~STA 137+04 LT~~
~~STA 137+62 RT~~
~~STA 138+22 RT~~
~~STA 137+66 LT~~
~~STA 138+26 LT~~
~~SL STA 600+67 RT~~
~~SL STA 601+13 RT~~
~~SL STA 601+89 RT~~
~~SL STA 602+32 RT~~
SL STA 600+30 RT

THIS ONE WAS INSTALLED

LEGEND:

- PROPOSED DECIDUOUS TREE
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SMALL DECIDUOUS SHADE TREE
- PROPOSED LIGHTING CONDUIT
- PROPOSED LIGHTING CONDUIT & SLEEVE
- PB PROPOSED PULLBOX
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED FAIRPOINT DUCT BANK CONDUIT

ELECTRICAL CONDUIT (2") (PVC)
LIGHTING CIRCUIT

STA 136+00 - 136+53 RT
STA 136+00 - 136+53 LT
STA 136+53 - 137+03 RT
STA 136+53 - 137+04 LT
STA 137+03 - 137+62 RT
STA 137+04 - 137+66 LT
STA 137+62 - 138+22 RT
STA 137+66 - 138+26 LT
STA 138+22 - SL 600+67 RT
SL STA 600+67 - 601+13 RT
SL STA 601+13 - 601+89 RT
SL STA 601+89 - 602+32 RT

20 0 20 40
FEET

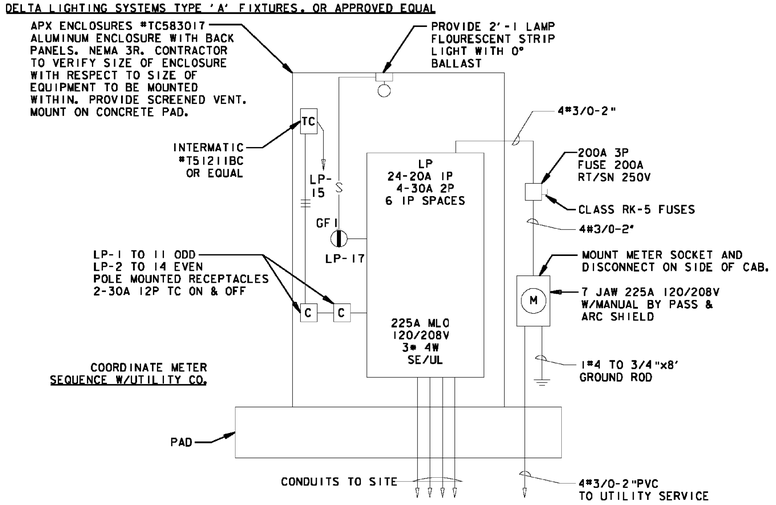
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr_lt_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
STREET LIGHTING PLAN #5

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 83 OF 339

DELTA LIGHTING SYSTEMS TYPE 'A' FIXTURES, OR APPROVED EQUAL



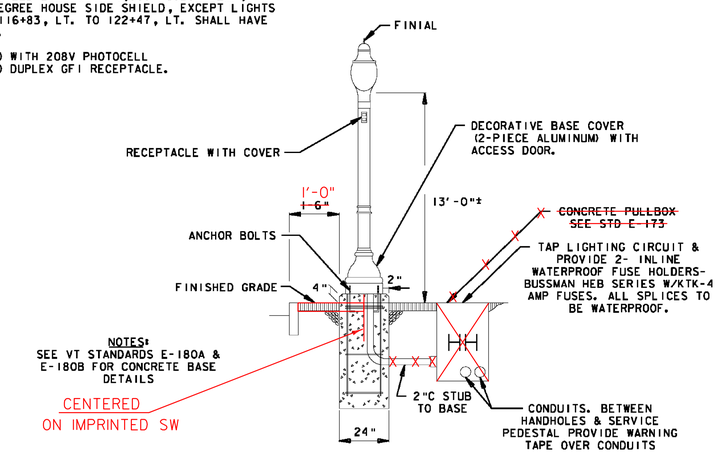
SPECIAL PROVISION (LIGHTING CONTROL PANEL) "LP"

SCALE: N.T.S.

POLE: 13'-0" 12 FLUTED MANDREL FORMED, ALUMINUM SHAFT 6" & 7" ROUND POLE WELDED TO A 6-5/8" ROUND EXTRUDED ALUMINUM POLE BASE WHICH IS WELDED TOP AND BOTTOM TO A CAST-ALUMINUM ANCHOR PLATE.

LIGHT FIXTURE: GLASS GLOBE LUMINAIRE WITH CUT-OFF OPTICAL SYSTEM 90W LED LAMP WITH 4,000K COLOR TEMP, AND 120 DEGREE HOUSE SIDE SHIELD, EXCEPT LIGHTS FROM STA 116+83, LT. TO 122+47, LT. SHALL HAVE NO SHIELD.

UNIT TO BE SUPPLIED WITH 208V PHOTOCELL AND FACTORY MOUNTED DUPLEX GFI RECEPTACLE.



SPECIAL PROVISION (ORNAMENTAL STREET LIGHT)

SCALE: N.T.S.

GENERAL STREET LIGHT NOTES

CONCRETE BASES

CONCRETE BASE SIZES SHALL BE TWO FEET IN DIAMETER AND FOUR FEET IN DEPTH FOR ORNAMENTAL POLES. THE TOP OF THE BASE SHALL BE RAISED 4" ABOVE THE SIDEWALK AND SHALL HAVE A 45° 1"x1" CHAMFERED EDGE. SEE STANDARD DRAWINGS E-180A AND E-180B FOR ADDITIONAL NOTES AND CONCRETE BASE DETAILS. CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAINAGE STRUCTURES OR UTILITIES ARE CLOSE TOGETHER.

CONDUIT

A 2" (I.D.) MIN. AND SIZED AS INDICATED CONDUIT SHALL BE USED AT ALL LOCATIONS. ALL CONDUIT SHALL BE AT LEAST SCHEDULE 80 P.V.C. OR RIGID GALVANIZED STEEL ELECTRICAL CONDUIT AND CONFORM TO THE REQUIREMENTS OF UL-8.

THE FINAL CONDUIT DEPTH SHALL BE A MIN. OF 2' AND BE 2' TO 3' BELOW GRADE FOR CONDUIT RUNS PARALLEL WITH CURB OR EDGE OF SHOULDER, AND 3' TO 5' DEPTH UNDER ROADWAYS OR AS DIRECTED BY THE ENGINEER.

A 6" WIDE YELLOW MARKING TAPE (PLASTIC) SHALL BE INSTALLED 6" TO 12" BELOW FINISH GRADE OVER THE CONDUIT RUNS. MARKING TAPE IS INCIDENTAL TO THE CONDUIT ITEMS.

A MAXIMUM OF 270° IN TOTAL BENDS WILL BE PERMITTED IN A SINGLE RUN OF CONDUIT, AND 180° IN RUNS LONGER THAN 250' AND NONE IN RUNS LONGER THAN 500'.

CONDUIT SLEEVE

MINIMUM WALL THICKNESS FOR RIGID PLASTIC PIPE SLEEVES SHALL BE 1/36th THE DIAMETER. ALL CONDUIT RUNS UNDER ROADWAY SHALL BE INSTALLED IN RIGID PLASTIC PIPE SLEEVES. THE SLEEVE SHALL EXTEND TO WITHIN 2' OF THE SIDE OF A CONCRETE BASE OR PULLBOX. WHERE NO CONCRETE BASE OR PULLBOX IS PRESENT, THE SLEEVE SHALL EXTEND 2' BEYOND THE OUTSIDE EDGE OF SHOULDER OR FACE OF CURB. BACKFILLING AROUND A SLEEVE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

GROUNDING

IN ADDITION TO A GROUND ROD AT EACH CONCRETE POLE BASE, A CONTINUOUS GROUNDING CIRCUIT SIZED AS INDICATED A.W.G. COPPER CONDUCTOR SHALL RUN BACK TO A CIRCUIT PROTECTIVE DEVICE AT THE POWER SOURCE OR TRANSFORMER. ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR, AND RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUND CONDUCTOR.

POLES, ANCHOR BASES AND ARMS

ALL ORNAMENTAL STREET LIGHT POLES SHALL BE FLUTED ALUMINUM, FINISHED BLACK AND SHALL NOT INCLUDE A BREAKAWAY DESIGN FEATURE.

WIRE

ALL WIRING BETWEEN THE METER AND/OR POWER SOURCE AND THE FIRST POLE AND/OR PULLBOX AND BETWEEN POLES AND/OR PULLBOXES SHALL BE AS SPECIFIED ON THE PLANS (ALUMINUM OR COPPER) AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE TO HAVE TYPE XHHW-2 INSULATION OR EQUIVALENT.

USE #10 A.W.G. STRANDED COPPER WIRES IN EACH POLE BETWEEN THE POLE BASE AND THE LUMINAIRE AND #6 BETWEEN RECEPTACLES. USE COPPER SIZED AS INDICATED (MIN.) FOR THE CONTINUOUS GROUND CIRCUIT.

ALL WIRE CONNECTIONS IN THE LIGHT POLE BASES SHALL BE MADE WITH THE PROPER, IN LINE OR WYE TYPE WATERPROOF DISCONNECT KIT. THE LOAD SIDE TO THE LUMINAIRE SHALL BE FUSED AT 3 TIMES THE LOAD.

VOLTAGE LOSES GREATER THAN 3% IN THE SECONDARY CIRCUIT REQUIRE LARGER WIRE.

ALL WIRE SHALL BE TYPE RHH-RHW EPR.

PULLBOXES

FOR DETAILS SEE STANDARD SHEET E-173.

GENERAL

ALL ELECTRICAL MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES AND REQUIREMENTS OF GREEN MOUNTAIN POWER AT THE SOURCE. THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE, LOAD TO NEUTRAL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND FOR SCHEDULING WORK WITH GREEN MOUNTAIN POWER FACILITIES IN THE PROJECT AREA.

ALL LUMINAIRES TO BE INSTALLED ON CANTILEVER POLES SHALL HAVE THE SAME COLOR FINISH (BLACK) AS THE POLE IT IS BEING INSTALLED ON. PAYMENT FOR THE LUMINAIRE ARM, CONDUIT SWEEPS AND WIRING FOR THE LUMINAIRE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 678.15.

THE CONTRACTOR SHALL PERFORM THE FOLLOWING WORK ON THIS PROJECT

1. PERFORM AN INSULATION TEST ON ALL CONDUCTORS EXCEPT THE GROUND CONDUCTOR (INCLUDING NEUTRAL, DISCONNECT FROM GROUND BEFORE TESTING). PERFORM A RESISTANCE TO GROUND TEST AT SPECIFIED GROUNDS. SEE VERMONT STANDARD SPECIFICATIONS SUBSECTION 679.08. FURNISH THE TRAFFIC AND SAFETY SECTION V1A THE RESIDENT ENGINEER THE READINGS OBTAINED FROM THE ABOVE TESTS.
2. COORDINATE WITH GMP TO CONNECT THE NEW ORNAMENTAL STREET LIGHT SYSTEM TO THE EXISTING SERVICE. INSTALL A NEW METERING POWER AND CONTROL PEDESTAL WITH METER SOCKET AND SERVICE PANELBOARD AND CONTROL EQUIPMENT [(SPECIAL PROVISION (LIGHTING CONTROL PANEL)] FOR THE SINGLE RECEPTACLE OUTLETS ON STREET LIGHT POLES. THE STREET LIGHTS WHICH WILL RECEIVE THEIR POWER FROM THE SAME CIRCUIT AS THE TRAFFIC SIGNALS SHALL UTILIZE A SEPARATE CIRCUIT BREAKER AT THE CONTROLLER CABINET. THE NEW LIGHTING CONTROL PANEL SHALL BE INSTALLED OFF OF WEST STREET AS SHOWN IN THE DETAILS (SHEET 84). INSTALL ALL NECESSARY WIRING AND CONDUIT FROM THE TRANSFORMER POLE.
3. AT EACH STREET LIGHT POLE LOCATION, INSTALL A CONCRETE POLE BASE, STAINLESS STEEL ANCHOR BOLTS, NUTS AND WASHERS (FLAT AND LOCK) CAST IRON POLE, LUMINAIRE GLOBE, LED LAMPS, WIRING, WATERPROOF DISCONNECT KITS AND CONDUIT SWEEPS.
4. INSTALL CONDUIT, SIZE, TYPE AND LOCATION AS NOTED ON THE PLANS.
5. INSTALL PULLBOXES WITH CONDUIT SWEEPS AS PER PLAN.
6. INSTALL ALL WIRING, SIZE AND TYPE AS PER PLAN AND/OR SPECIFICATION.
7. INSTALL RIGID PLASTIC SLEEVES AS PER PLAN, LOCATION & SIZE.
8. INSTALL LUMINAIRE AND NECESSARY WIRING ON ALL CANTILEVER POLES AS SHOWN ON THE PLANS.
9. STREET LIGHTING IN THIS DOWNTOWN AREA MUST BE MAINTAINED DURING CONSTRUCTION.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_LTDETL_C2	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
STREET LIGHTING DETAILS AND NOTES	SHEET 84 OF 339

SPECIAL PROVISION (CU STRUCTURAL SOIL)
STA 115+47 - 115+87 RT
STA 116+85 - 116+90 LT

LANDSCAPE BACKFILL, TRUCK MEASUREMENT
SL STA 10+70 - 11+00 LT-RT
SL STA 11+52 - 11+68 LT-RT
SL STA 20+48 - 20+94 LT-RT
STA 116+77 - 116+90 LT

DECIDUOUS TREES
STA 115+67 RT
SL STA 11+02 LT
SL STA 11+20 LT
SL STA 11+45 LT
SL STA 11+64 LT

REMOVING MEDIUM TREES
STA 116+29 LT
SL STA 11+25 RT
SL STA 30+62 RT

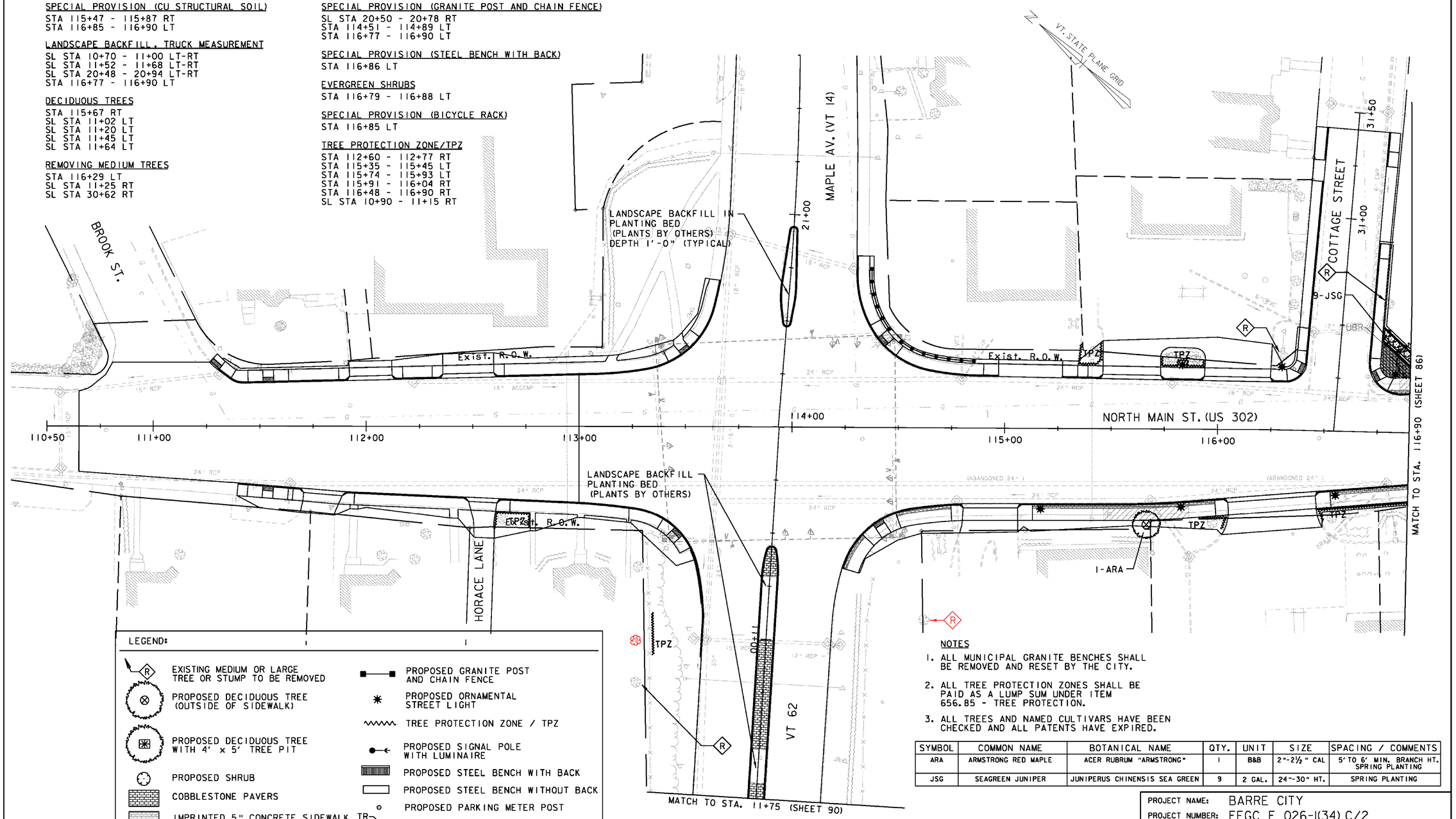
SPECIAL PROVISION (GRANITE POST AND CHAIN FENCE)
SL STA 20+50 - 20+78 RT
STA 114+51 - 114+89 LT
STA 116+77 - 116+90 LT

SPECIAL PROVISION (STEEL BENCH WITH BACK)
STA 116+86 LT

EVERGREEN SHRUBS
STA 116+79 - 116+88 LT

SPECIAL PROVISION (BICYCLE RACK)
STA 116+85 LT

TREE PROTECTION ZONE/TPZ
STA 112+60 - 112+77 RT
STA 115+35 - 115+45 LT
STA 115+74 - 115+93 LT
STA 115+91 - 116+04 RT
STA 116+48 - 116+90 RT
SL STA 10+90 - 11+15 RT



LEGEND:

- EXISTING MEDIUM OR LARGE TREE OR STUMP TO BE REMOVED
- PROPOSED DECIDUOUS TREE (OUTSIDE OF SIDEWALK)
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SHRUB
- COBBLESTONE PAVERS
- IMPRINTED 5" CONCRETE SIDEWALK
- CU STRUCTURAL SOIL
- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- TREE PROTECTION ZONE / TPZ
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED STEEL BENCH WITH BACK
- PROPOSED STEEL BENCH WITHOUT BACK
- PROPOSED PARKING METER POST
- TR — PROPOSED TRASH RECEPTACLE
- UBR — PROPOSED BICYCLE RACK

NOTES
1. ALL MUNICIPAL GRANITE BENCHES SHALL BE REMOVED AND RESET BY THE CITY.
2. ALL TREE PROTECTION ZONES SHALL BE PAID AS A LUMP SUM UNDER ITEM 656.85 - TREE PROTECTION.
3. ALL TREES AND NAMED CULTIVARS HAVE BEEN CHECKED AND ALL PATENTS HAVE EXPIRED.

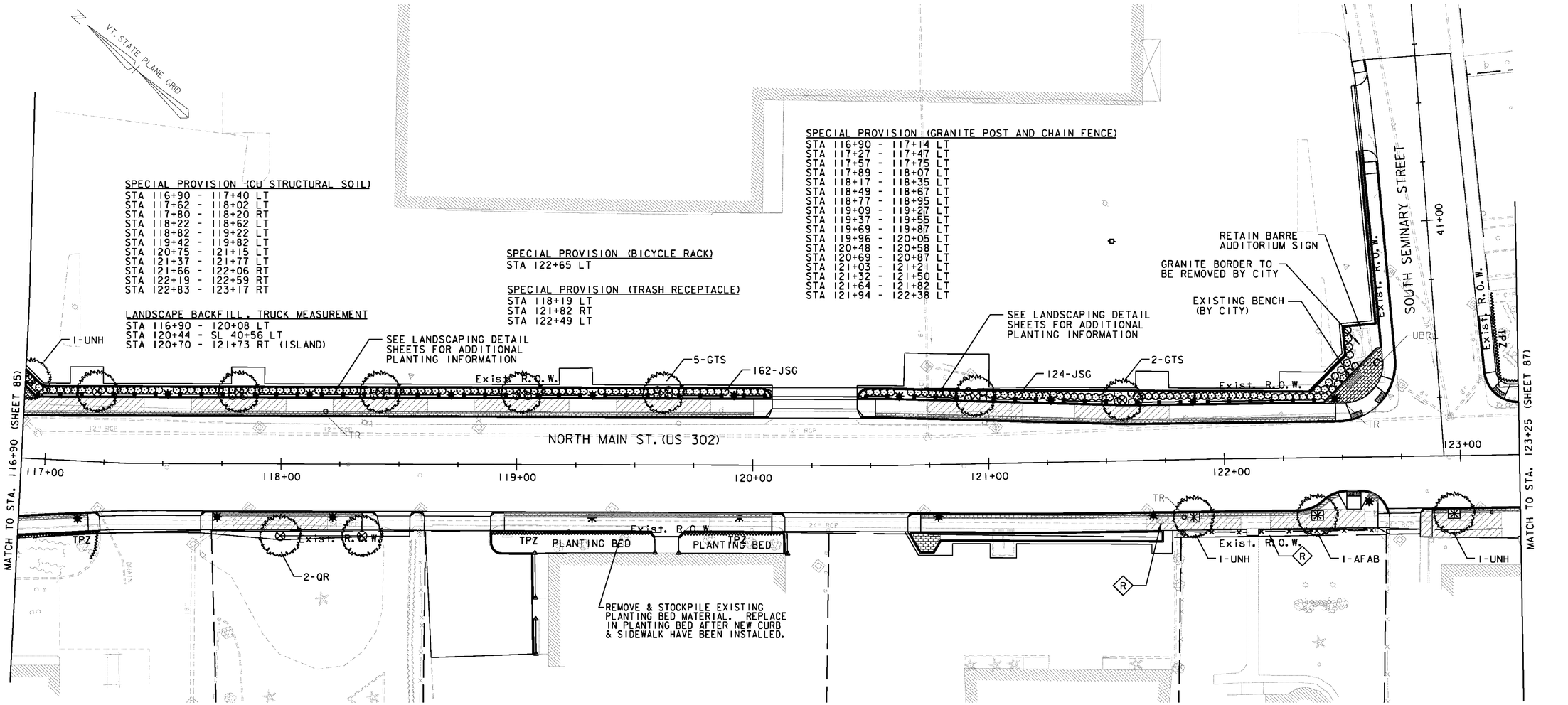
SYMBOL	COMMON NAME	BOTANICAL NAME	QTY.	UNIT	SIZE	SPACING / COMMENTS
ARA	ARMSTRONG RED MAPLE	ACER RUBRUM "ARMSTRONG"	1	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT. SPRING PLANTING
JSG	SEAGREEN JUNIPER	JUNIPERUS CHINENSIS SEA GREEN	9	2 GAL.	24"-30" HT.	SPRING PLANTING

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b01Obdr_ld_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
LANDSCAPING PLAN #1
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 85 OF 339



LEGEND:

- EXISTING MEDIUM OR LARGE TREE OR STUMP TO BE REMOVED
- PROPOSED DECIDUOUS TREE (OUTSIDE OF SIDEWALK)
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SHRUB
- COBBLESTONE PAVERS
- IMPRINTED 5" CONCRETE SIDEWALK
- CU STRUCTURAL SOIL
- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- TREE PROTECTION ZONE / TPZ
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED STEEL BENCH WITH BACK
- PROPOSED STEEL BENCH WITHOUT BACK
- PROPOSED PARKING METER POST
- TR PROPOSED TRASH RECEPTACLE
- UBR PROPOSED BICYCLE RACK

DECIDUOUS TREES
STA 116+93 LT
STA 117+21 LT
STA 117+82 LT
STA 118+00 RT
STA 118+34 RT
STA 118+42 LT
STA 119+02 LT
STA 119+62 LT
STA 120+95 LT
STA 121+57 LT
STA 121+86 RT
STA 122+39 RT
STA 122+97 RT

EVERGREEN SHRUBS
STA 116+91 - 120+07 LT
STA 120+47 - 122+56 LT
STA 119+00 - 120+00 RT

TREE PROTECTION ZONE/TPZ
STA 116+90 - 117+24 RT
STA 118+89 - 119+57 RT
STA 119+71 - 120+12 RT
SL STA 40+68 RT - STA 123+25 LT

REMOVING MEDIUM STUMPS
STA 122+19 RT

REMOVING MEDIUM TREES
STA 121+73 RT

SPECIAL PROVISION (CEDAR BARK MULCH)
STA 119+89 - 120+12 RT

NOTES:

1. ALL MUNICIPAL GRANITE BENCHES SHALL BE REMOVED AND RESET BY THE CITY.
2. ALL TREE PROTECTION ZONES SHALL BE PAID AS A LUMP SUM UNDER ITEM 656.85 - TREE PROTECTION.
3. ALL TREES AND NAMED CULTIVARS HAVE BEEN CHECKED AND ALL PATENTS HAVE EXPIRED.

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY.	UNIT	SIZE	SPACING / COMMENTS
GTS	SHADEMASTER HONEYLOCUST	GLEDITSIA TRIACANTHOS INERMIS	7	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
UNH	NEW HARMONY AMERICAN ELM	ULMUS AMERICANA NEW HARMONY	3	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
JSG	SEAGREEN JUNIPER	JUNIPERUS CHINENSIS SEA GREEN	286	2 GAL.	24"-30" HT.	SPRING PLANTING
QR	NORTHERN RED OAK	QUERCUS RUBRA	2	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
AFAB	AUTUMN BLAZE MAPLE	ACER FREMANII X AUTUMN BLAZE	1	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.

• ALL TREES SHALL BE PLANTED IN THE SPRING

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr_ld_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
LANDSCAPING PLAN #2
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 86 OF 339

DECIDUOUS TREES
STA 123+58 LT
STA 124+12 RT
STA 124+05 LT
STA 124+63 RT
STA 124+79 LT
STA 125+35 LT
STA 125+75 RT
STA 126+64 RT
STA 127+75 LT
STA 127+60 LT
STA 128+22 RT
STA 128+40 LT
STA 128+88 RT
STA 129+50 RT

SPECIAL PROVISION (STEEL BENCH WITHOUT BACK)
STA 126+10 RT

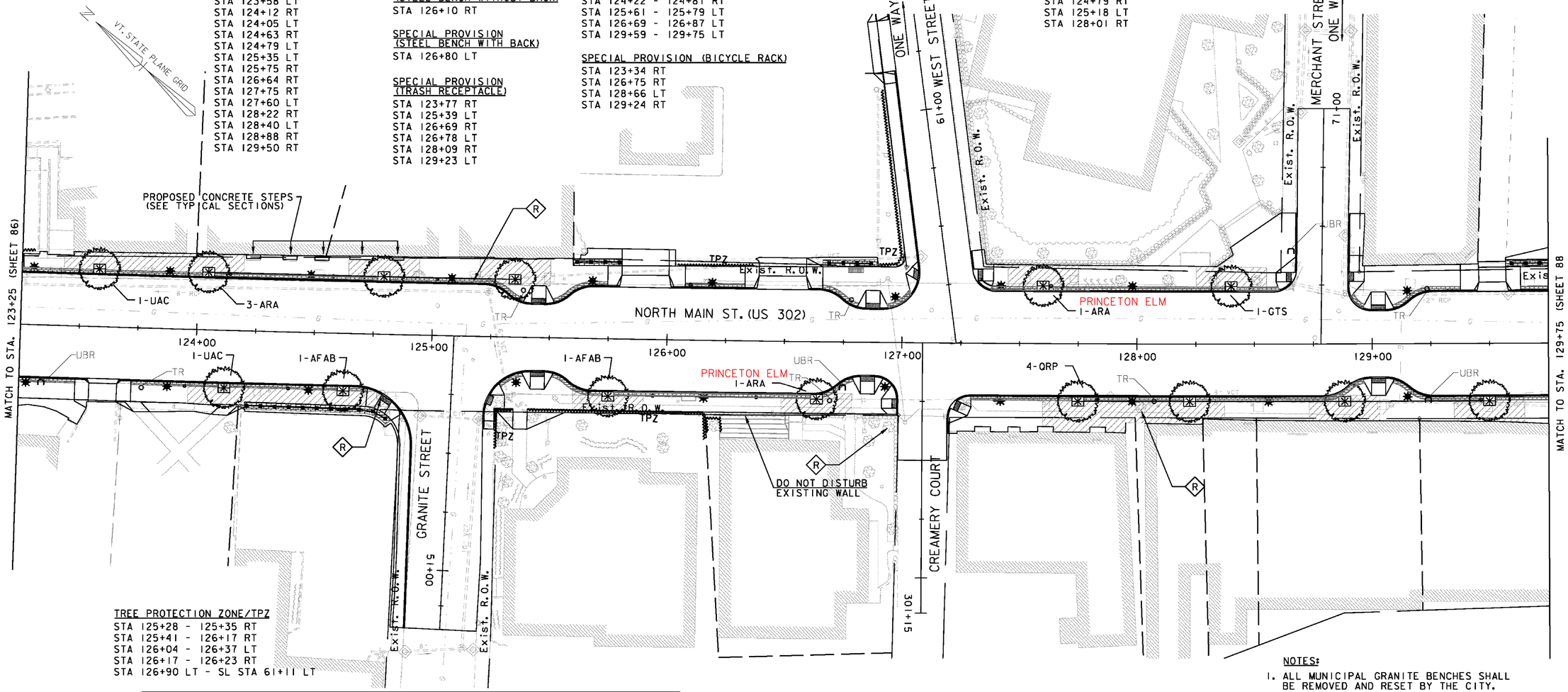
SPECIAL PROVISION (STEEL BENCH WITH BACK)
STA 126+80 LT

SPECIAL PROVISION (TRASH RECEPTACLE)
STA 123+77 RT
STA 125+39 LT
STA 126+69 RT
STA 126+78 LT
STA 128+09 RT
STA 129+23 LT

SPECIAL PROVISION (GRANITE POST AND CHAIN FENCE)
STA 124+22 - 124+81 RT
STA 125+61 - 125+79 LT
STA 126+69 - 126+87 LT
STA 129+59 - 129+75 LT

SPECIAL PROVISION (BICYCLE RACK)
STA 123+34 RT
STA 126+75 RT
STA 128+66 LT
STA 129+24 RT

REMOVING MEDIUM TREES
STA 124+79 RT
STA 125+18 LT
STA 128+01 RT



TREE PROTECTION ZONE/TPZ
STA 125+28 - 125+35 RT
STA 125+41 - 126+17 RT
STA 126+04 - 126+37 LT
STA 126+17 - 126+23 RT
STA 126+90 LT - SL STA 61+11 LT

LEGEND:

- EXISTING MEDIUM OR LARGE TREE OR STUMP TO BE REMOVED
- PROPOSED DECIDUOUS TREE (OUTSIDE OF SIDEWALK)
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SHRUB
- COBBLESTONE PAVERS
- IMPRINTED 5" CONCRETE SIDEWALK
- CU STRUCTURAL SOIL
- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- TREE PROTECTION ZONE / TPZ
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED STEEL BENCH WITH BACK
- PROPOSED STEEL BENCH WITHOUT BACK
- PROPOSED PARKING METER POST
- TR — PROPOSED TRASH RECEPTACLE
- UBR — PROPOSED BICYCLE RACK

SPECIAL PROVISION (CU STRUCTURAL SOIL)
STA 123+43 - 124+20 LT
STA 123+97 - 124+83 RT
STA 124+64 - 124+94 LT
STA 125+20 - 125+50 LT
STA 125+60 - 125+90 RT
STA 126+49 - 126+79 RT
STA 127+60 - 128+37 RT
STA 127+45 - 127+75 LT
STA 128+25 - 128+55 LT
STA 128+73 - 129+03 RT
STA 129+35 - 129+65 RT

REMOVING LARGE TREE
STA 126+95 RT

NOTES:
1. ALL MUNICIPAL GRANITE BENCHES SHALL BE REMOVED AND RESET BY THE CITY.
2. ALL TREE PROTECTION ZONES SHALL BE PAID AS A LUMP SUM UNDER ITEM 656.85 - TREE PROTECTION.
3. ALL TREES AND NAMED CULTIVARS HAVE BEEN CHECKED AND ALL PATENTS HAVE EXPIRED EXCEPT AS NOTED BELOW **.

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY.	UNIT	SIZE	SPACING / COMMENTS
UAC	ACCOLADE ELM	ULMUS CARPINIFOLIA ACCOLADE	2	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
ARA	ARMSTRONG RED MAPLE	ACER RUBRUM "ARMSTRONG"	5	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
AFAB	AUTUMN BLAZE MAPLE	ACER FREMANII X AUTUMN BLAZE	2	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
QRP	REGAL PRINCE COLUMNAR OAK	QUERCUS RxB. LONG**	4	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
GTS	SHADEMASTER HONEYLOCUST	GLEDITSIA TRIACANTHOS INERMIS	1	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.

* ALL TREES SHALL BE PLANTED IN THE SPRING

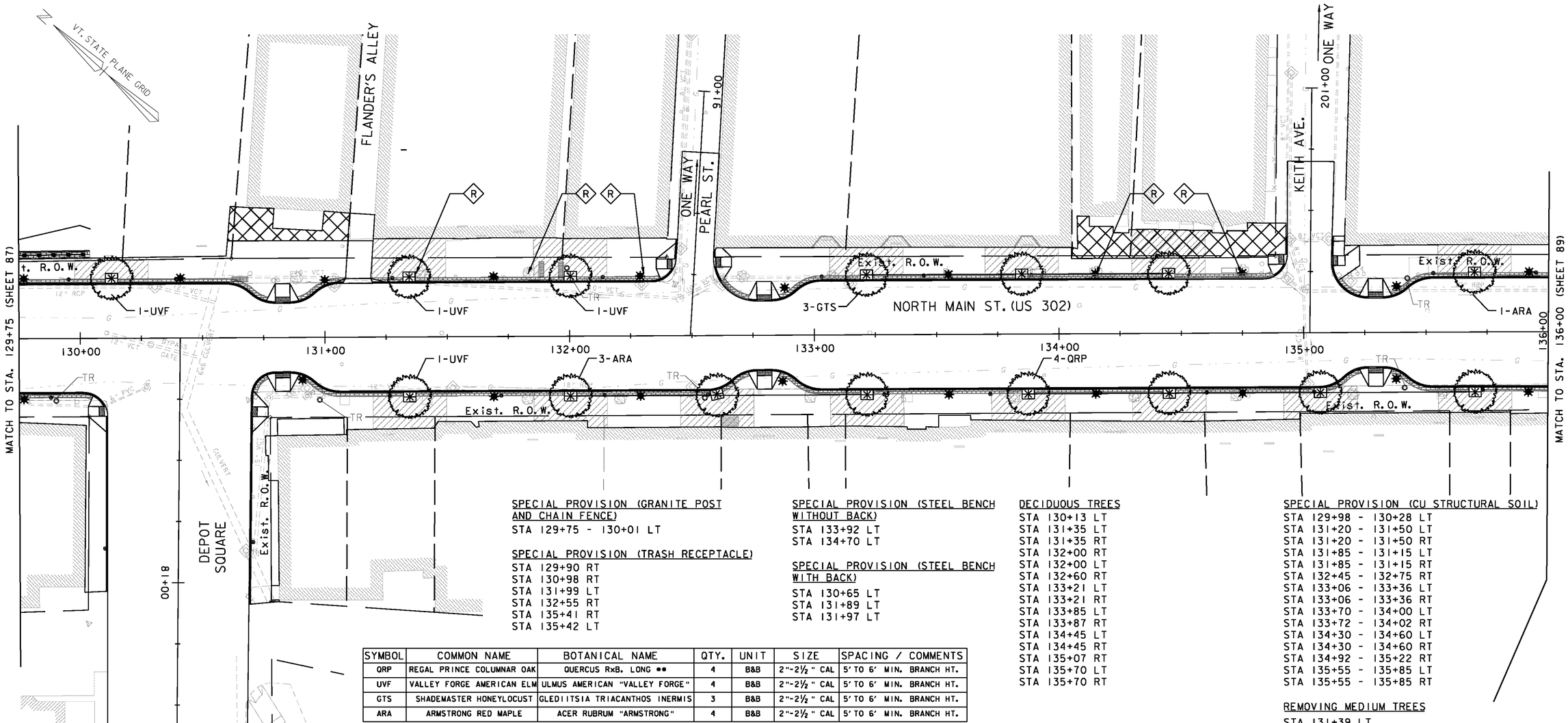
** ALTERNATIVES FOR REGAL PRINCE COLUMNAR OAK ARE AS FOLLOWS:
1. CRIMSON SPIRE OAK (QUERCUS ROBUR X Q. ALBA "CRIMSCHMIDT")
2. BOWHALL MAPLE (ACER RUBRUM "BOWHALL")
3. KARPICK MAPLE (ACER RUBRUM "KARPICK")

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr_ld_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
LANDSCAPING PLAN #3
PLOT DATE: 3/23/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 87 OF 339



SPECIAL PROVISION (GRANITE POST AND CHAIN FENCE)
STA 129+75 - 130+01 LT

SPECIAL PROVISION (TRASH RECEPTACLE)
STA 129+90 RT
STA 130+98 RT
STA 131+99 LT
STA 132+55 RT
STA 135+41 RT
STA 135+42 LT

SPECIAL PROVISION (STEEL BENCH WITHOUT BACK)
STA 133+92 LT
STA 134+70 LT

SPECIAL PROVISION (STEEL BENCH WITH BACK)
STA 130+65 LT
STA 131+89 LT
STA 131+97 LT

DECIDUOUS TREES
STA 130+13 LT
STA 131+35 LT
STA 131+35 RT
STA 132+00 RT
STA 132+00 LT
STA 132+60 RT
STA 133+21 LT
STA 133+21 RT
STA 133+85 LT
STA 133+87 RT
STA 134+45 LT
STA 134+45 RT
STA 135+07 RT
STA 135+70 LT
STA 135+70 RT

SPECIAL PROVISION (CU STRUCTURAL SOIL)
STA 129+98 - 130+28 LT
STA 131+20 - 131+50 LT
STA 131+20 - 131+50 RT
STA 131+85 - 131+15 LT
STA 131+85 - 131+15 RT
STA 132+45 - 132+75 RT
STA 133+06 - 133+36 LT
STA 133+06 - 133+36 RT
STA 133+70 - 134+00 LT
STA 133+72 - 134+02 RT
STA 134+30 - 134+60 LT
STA 134+30 - 134+60 RT
STA 134+92 - 135+22 RT
STA 135+55 - 135+85 LT
STA 135+55 - 135+85 RT

REMOVING MEDIUM TREES
STA 131+39 LT
STA 131+83 LT
STA 132+31 LT
STA 134+15 LT
STA 134+75 LT

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY.	UNIT	SIZE	SPACING / COMMENTS
QRP	REGAL PRINCE COLUMNAR OAK	QUERCUS RxB. LONG **	4	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
UVF	VALLEY FORGE AMERICAN ELM	ULMUS AMERICAN "VALLEY FORGE"	4	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
GTS	SHADEMASTER HONEYLOCUST	GLEDIITSIA TRIACANTHOS INERMIS	3	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
ARA	ARMSTRONG RED MAPLE	ACER RUBRUM "ARMSTRONG"	4	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.

* ALL TRESS SHALL BE PLANTED IN THE SPRING

LEGEND:

- EXISTING MEDIUM OR LARGE TREE OR STUMP TO BE REMOVED
- PROPOSED DECIDUOUS TREE (OUTSIDE OF SIDEWALK)
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SHRUB
- COBBLESTONE PAVERS
- IMPRINTED 5" CONCRETE SIDEWALK
- CU STRUCTURAL SOIL
- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- TREE PROTECTION ZONE / TPZ
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED STEEL BENCH WITH BACK
- PROPOSED STEEL BENCH WITHOUT BACK
- PROPOSED PARKING METER POST
- TR PROPOSED TRASH RECEPTACLE
- UBR PROPOSED BICYCLE RACK

NOTES:

1. ALL MUNICIPAL GRANITE BENCHES SHALL BE REMOVED AND RESET BY THE CITY.
2. ALL TREE PROTECTION ZONES SHALL BE PAID AS A LUMP SUM UNDER ITEM 656.85 - TREE PROTECTION.
3. ALL TREES AND NAMED CULTIVARS HAVE BEEN CHECKED AND ALL PATENTS HAVE EXPIRED EXCEPT AS NOTED BELOW **.

** ALTERNATIVES FOR REGAL PRINCE COLUMNAR OAK ARE AS FOLLOWS:
1. CRIMSON SPIRE OAK (QUERCUS ROBUR X Q. ALBA "CRIMSCHMIDT")
2. BOWHALL MAPLE (ACER RUBRUM "BOWHALL")
3. KARPICK MAPLE (ACER RUBRUM "KARPICK")

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

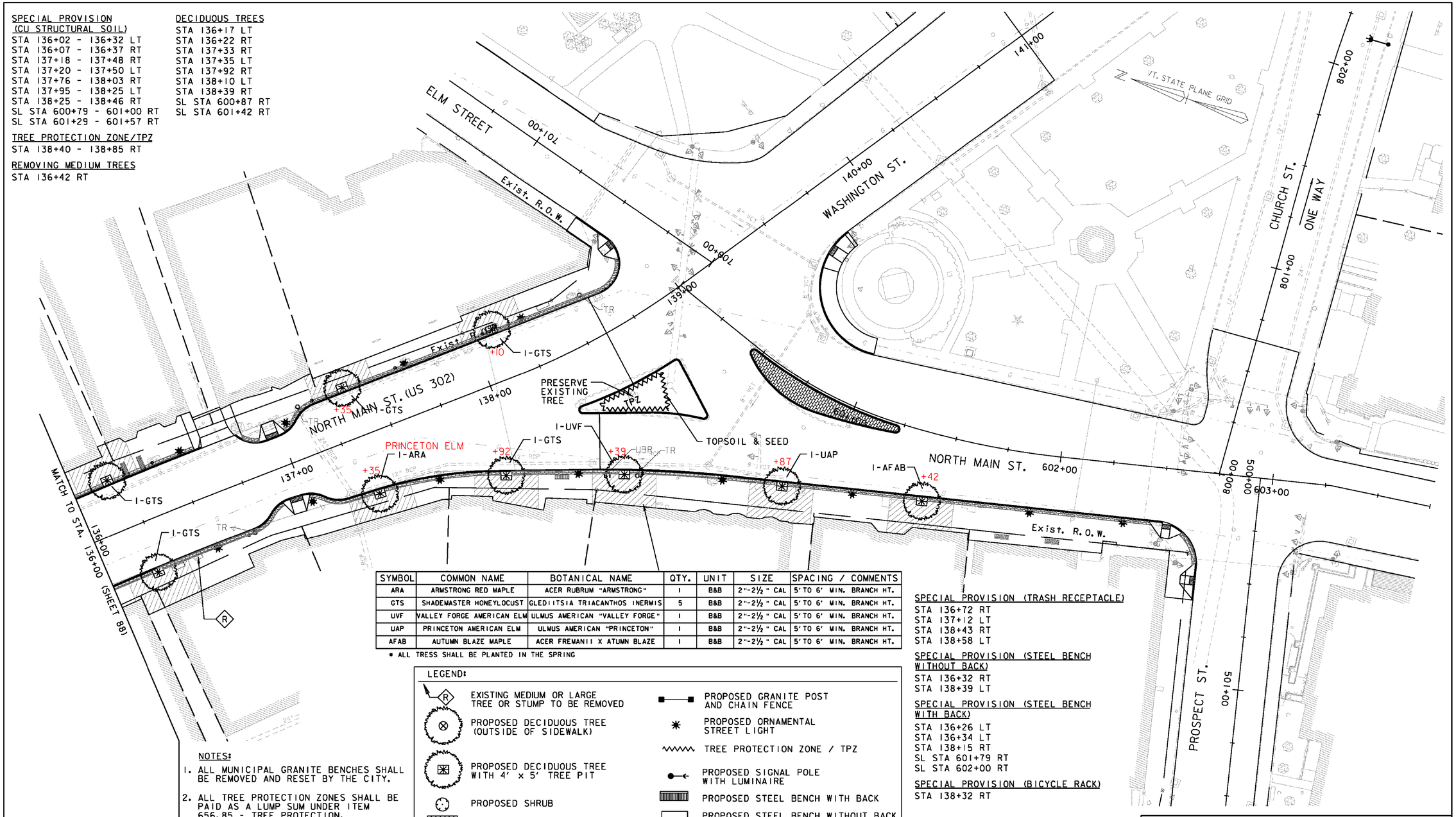
FILE NAME: z85b0l0bdr_ld_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
LANDSCAPING PLAN #4
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 88 OF 339

SPECIAL PROVISION
(CU STRUCTURAL SOIL)
STA 136+02 - 136+32 LT
STA 136+07 - 136+37 RT
STA 137+18 - 137+48 RT
STA 137+20 - 137+50 LT
STA 137+76 - 138+03 RT
STA 137+95 - 138+25 LT
STA 138+25 - 138+46 RT
SL STA 600+79 - 601+00 RT
SL STA 601+29 - 601+57 RT

TREE PROTECTION ZONE/TPZ
STA 138+40 - 138+85 RT

REMOVING MEDIUM TREES
STA 136+42 RT

DECIDUOUS TREES
STA 136+17 LT
STA 136+22 RT
STA 137+33 RT
STA 137+35 LT
STA 137+92 RT
STA 138+10 LT
STA 138+39 RT
SL STA 600+87 RT
SL STA 601+42 RT



SYMBOL	COMMON NAME	BOTANICAL NAME	QTY.	UNIT	SIZE	SPACING / COMMENTS
ARA	ARMSTRONG RED MAPLE	ACER RUBRUM "ARMSTRONG"	1	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
GTS	SHADEMASTER HONEYLOCUST	GLEDIITSIA TRIACANTHOS INERMIS	5	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
UVF	VALLEY FORGE AMERICAN ELM	ULMUS AMERICAN "VALLEY FORGE"	1	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
UAP	PRINCETON AMERICAN ELM	ULMUS AMERICAN "PRINCETON"	1	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.
AFAB	AUTUMN BLAZE MAPLE	ACER FREMANII X ATUMN BLAZE	1	B&B	2"-2½" CAL	5' TO 6' MIN. BRANCH HT.

* ALL TRESS SHALL BE PLANTED IN THE SPRING

LEGEND:

- EXISTING MEDIUM OR LARGE TREE OR STUMP TO BE REMOVED
- PROPOSED DECIDUOUS TREE (OUTSIDE OF SIDEWALK)
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- PROPOSED SHRUB
- COBBLESTONE PAVERS
- IMPRINTED 5" CONCRETE SIDEWALK
- CU STRUCTURAL SOIL
- PROPOSED GRANITE POST AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- TREE PROTECTION ZONE / TPZ
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED STEEL BENCH WITH BACK
- PROPOSED STEEL BENCH WITHOUT BACK
- PROPOSED PARKING METER POST
- PROPOSED TRASH RECEPTACLE
- PROPOSED BICYCLE RACK

NOTES:

1. ALL MUNICIPAL GRANITE BENCHES SHALL BE REMOVED AND RESET BY THE CITY.
2. ALL TREE PROTECTION ZONES SHALL BE PAID AS A LUMP SUM UNDER ITEM 656.85 - TREE PROTECTION.
3. ALL TREES AND NAMED CULTIVARS HAVE BEEN CHECKED AND ALL PATENTS HAVE EXPIRED.

SPECIAL PROVISION (TRASH RECEPTACLE)
STA 136+72 RT
STA 137+12 LT
STA 138+43 RT
STA 138+58 LT

SPECIAL PROVISION (STEEL BENCH WITHOUT BACK)
STA 136+32 RT
STA 138+39 LT

SPECIAL PROVISION (STEEL BENCH WITH BACK)
STA 136+26 LT
STA 136+34 LT
STA 138+15 RT
SL STA 601+79 RT
SL STA 602+00 RT

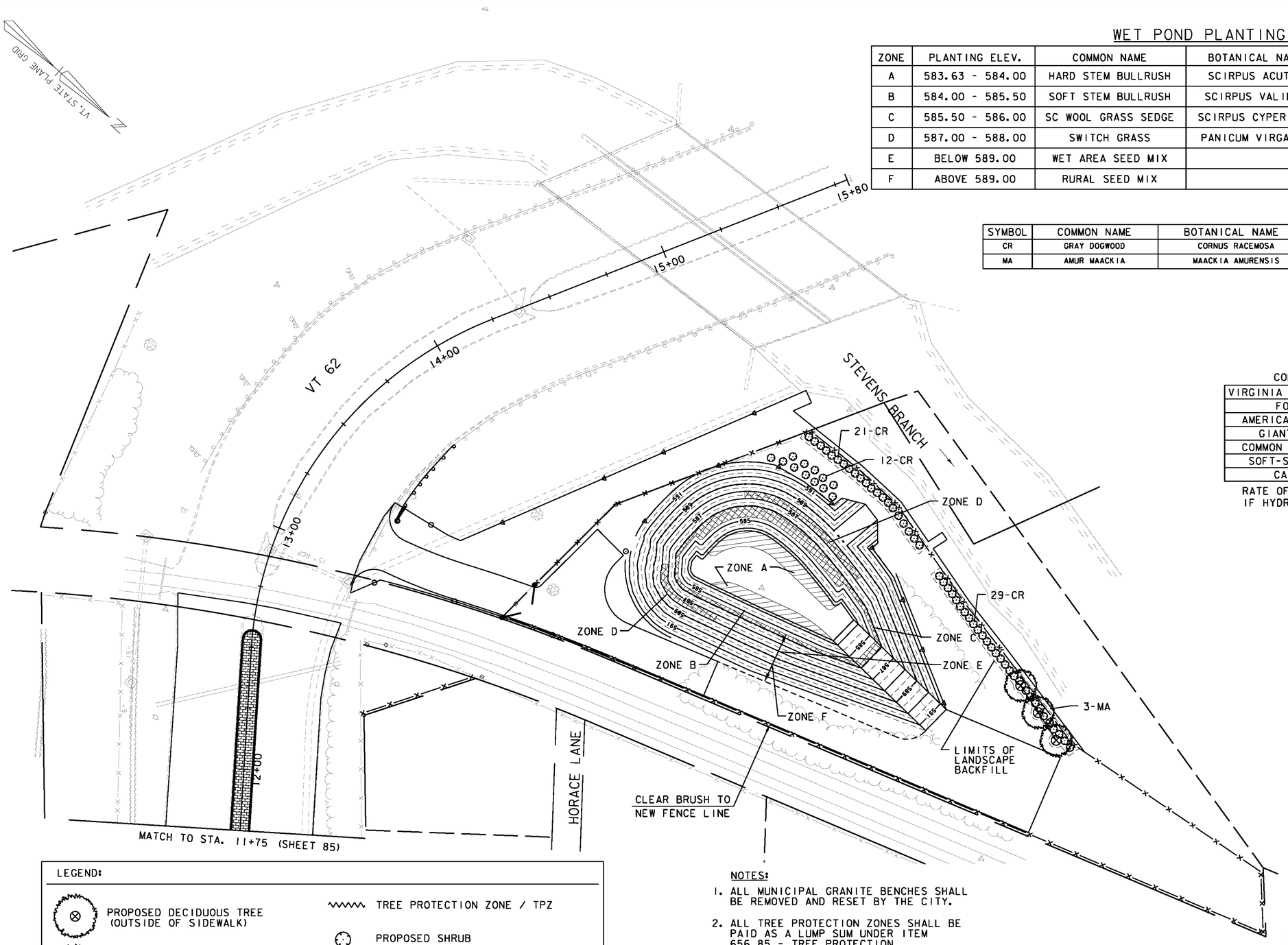
SPECIAL PROVISION (BICYCLE RACK)
STA 138+32 RT

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr_ld_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
LANDSCAPING PLAN #5
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 89 OF 339



WET POND PLANTING / SEEDING LEGEND

ZONE	PLANTING ELEV.	COMMON NAME	BOTANICAL NAME	UNIT	SIZE	QTY	SPACING COMMENTS
A	583.63 - 584.00	HARD STEM BULLRUSH	SCIRPUS ACUTUS	PEAT POT	2" PLUGS	600	1' O.C.
B	584.00 - 585.50	SOFT STEM BULLRUSH	SCIRPUS VALIDUS	PEAT POT	2" PLUGS	800	1' O.C.
C	585.50 - 586.00	SC WOOL GRASS SEDGE	SCIRPUS CYPERINUS	PEAT POT	2" PLUGS	450	1' O.C.
D	587.00 - 588.00	SWITCH GRASS	PANICUM VIRGATUM	PEAT POT	2" PLUGS	200	1' O.C.
E	BELOW 589.00	WET AREA SEED MIX					
F	ABOVE 589.00	RURAL SEED MIX					

SYMBOL	COMMON NAME	BOTANICAL NAME	QTY.	UNIT	SIZE	SPACING / COMMENTS
CR	GRAY DOGWOOD	CORNUS RACEMOSA	62	2 GAL.	30-36" HT.	4' O.C.
MA	AMUR MAACKIA	MAACKIA AMURENSIS	3	B&B	¾"-1½" CAL	SPRING PLANTING

WET AREA SEED MIX

COMMON NAME	LATIN NAME	% MIX
VIRGINIA WILD RYE GRASS	ELYMUS VIRGINICUS	20
FOX SEDGE	CAREX VULPINOIDEA	10
AMERICAN MANNAGRASS	GLYCERIA GRANDIS	20
GIANT BUR-REED	SPARGANIUM EURYCARPUM	10
COMMON THREE-SQUARE	SCIRPUS AMERICANUS	20
SOFT-STEM BULRUSH	SCIRPUS VALIDUS	10
CANADA RUSH	JUNCUS CANADENSIS	10

RATE OF APPLICATION: 10 LB / ACRE (20 LB/ACRE IF HYDROSEEDING)

LEGEND:

- PROPOSED DECIDUOUS TREE (OUTSIDE OF SIDEWALK)
- PROPOSED DECIDUOUS TREE WITH 4' x 5' TREE PIT
- TREE PROTECTION ZONE / TPZ
- PROPOSED SHRUB
- EXISTING MEDIUM OR LARGE TREE OR STUMP TO BE REMOVED

NOTES:

1. ALL MUNICIPAL GRANITE BENCHES SHALL BE REMOVED AND RESET BY THE CITY.
2. ALL TREE PROTECTION ZONES SHALL BE PAID AS A LUMP SUM UNDER ITEM 656.85 - TREE PROTECTION.
3. ALL TREES AND NAMED CULTIVARS HAVE BEEN CHECKED AND ALL PATENTS HAVE EXPIRED.

20 0 20 40
FEET

DECIDUOUS TREES
SL STA 15+71 RT
SL STA 15+73 RT
SL STA 15+80 RT

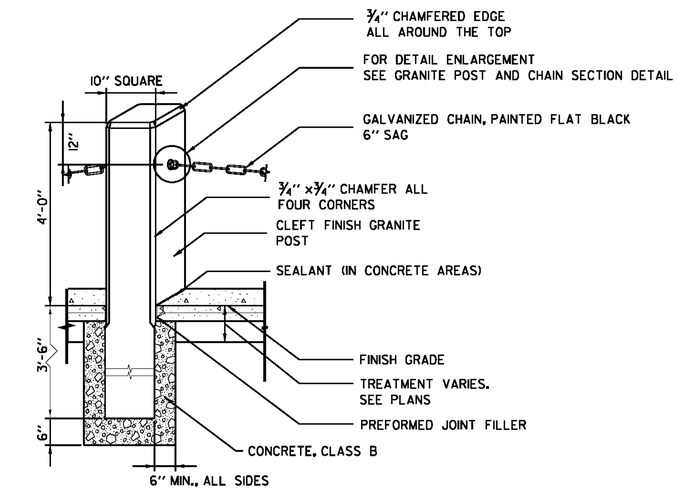
DECIDUOUS SHRUBS
SL STA 15+09 - 15+30 RT
SL STA 15+27 - 15+53 RT
SL STA 15+56 - 15+80 RT

LANDSCAPE BACKFILL, TRUCK MEASUREMENT
SL STA 15+23 - 15+80 RT

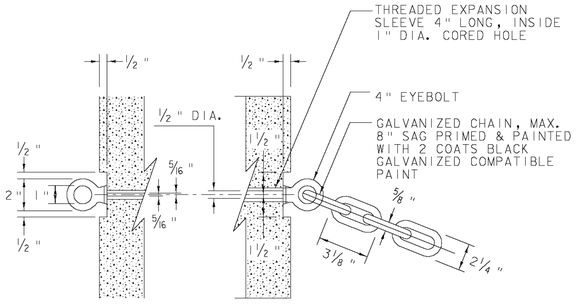
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr_ld_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
LANDSCAPING PLAN #6
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 90 OF 339

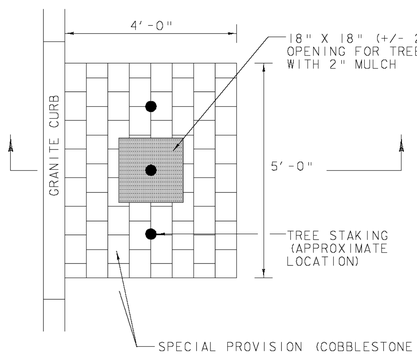


SPECIAL PROVISION (GRANITE POST AND CHAIN FENCE)
N.T.S.



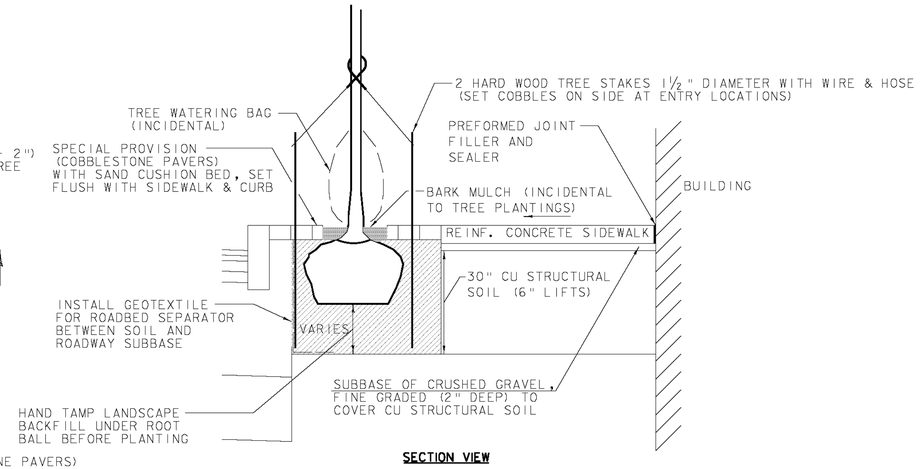
NOTE: END POST WILL HAVE ONLY ONE EYEBOLT TO CONNECT CHAIN

SPECIAL PROVISION (GRANITE POST AND CHAIN FENCE) SECTION DETAIL
N.T.S.



SPECIAL PROVISION (COBBLESTONE PAVERS)
LAID FLAT ON 3" SAND CUSION BED W/ HAND
TIGHT JOINTS & FINE, CLEAN SAND INTO JOINTS.
SAND IS INCIDENTAL TO SPECIAL PROVISION
(COBBLESTONE) PAVERS)

PLAN VIEW

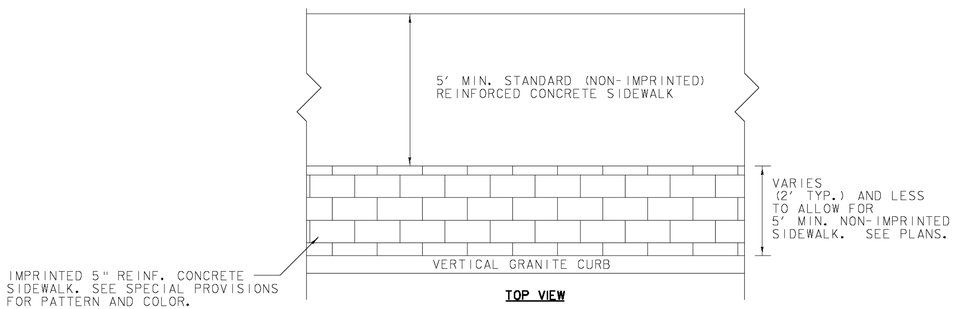


SECTION VIEW

NOTES:

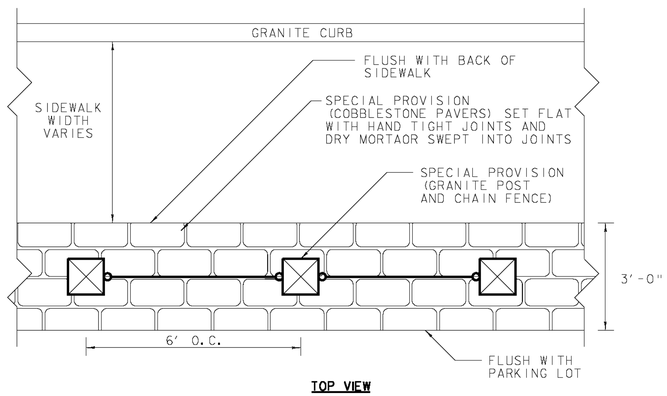
1. LAYOUT TREE STAKES PARALLEL W/ ROADWAY AS SHOWN IN PLAN VIEW.
2. ADJUST COBBLESTONES FOR HARD WOOD STAKES

TREE PIT IN SIDEWALK DETAIL
N.T.S.



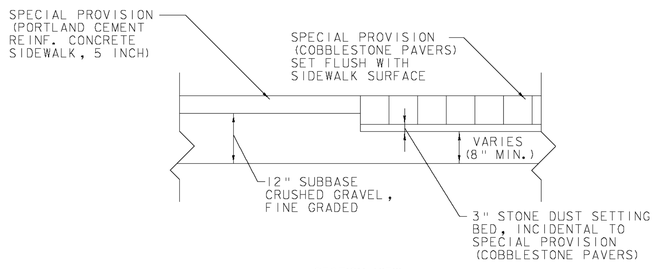
TOP VIEW

TYPICAL CONCRETE SIDEWALK TREATMENT
SEE PLANS FOR LOCATIONS
N.T.S.



TOP VIEW

GRANITE POST LAYOUT AT PARKING LOTS ON MAIN ST. AS SHOWN ON PLANS
N.T.S.

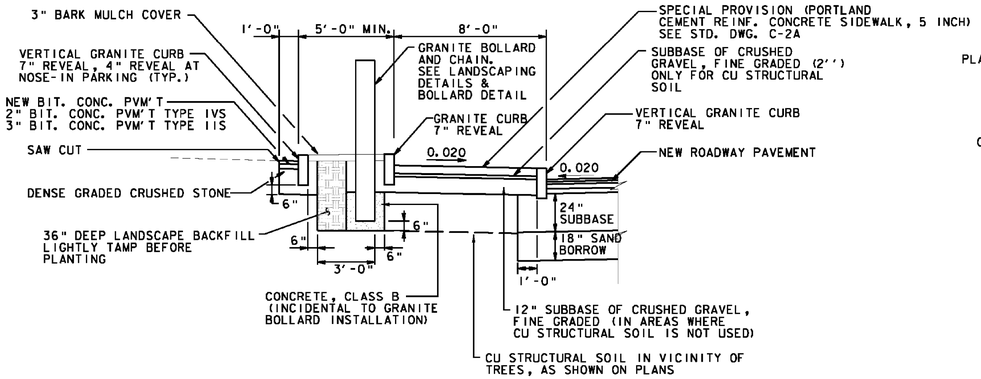


SECTION VIEW

TYPICAL CONCRETE SIDEWALK / COBBLESTONE MATCH
N.T.S.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85D010_LDSDET_C2	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
LANDSCAPING DETAILS #1	SHEET 91 OF 339

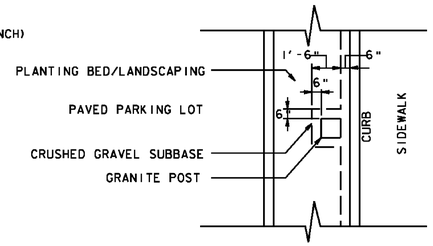
VHB Vanasse Hangen Brustlin, Inc.



SECTION VIEW

GRAINTE POST DETAIL FOR PLANTING BED AT PLAZA

N.T.S.

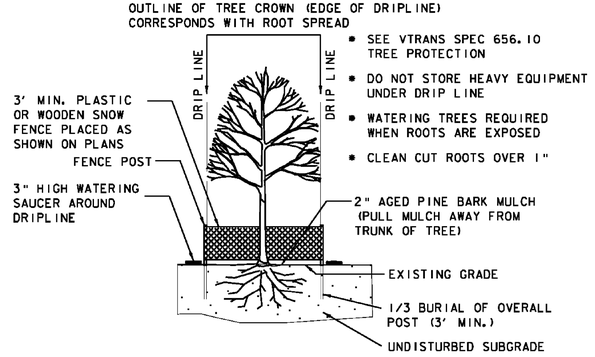


PLAN VIEW

GRANITE POST DETAIL AT PLAZA

N.T.S.

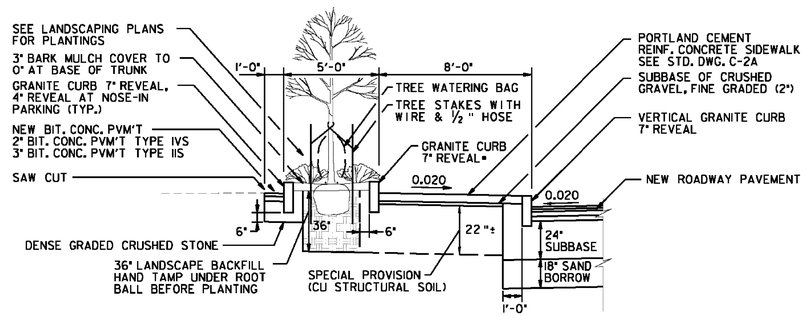
STA. 116+76 LT - 122+67 LT



TREE PROTECTION ZONE (TPZ) FOR EXISTING TREES

SEE LANDSCAPING PLANS FOR LOCATIONS

N.T.S.

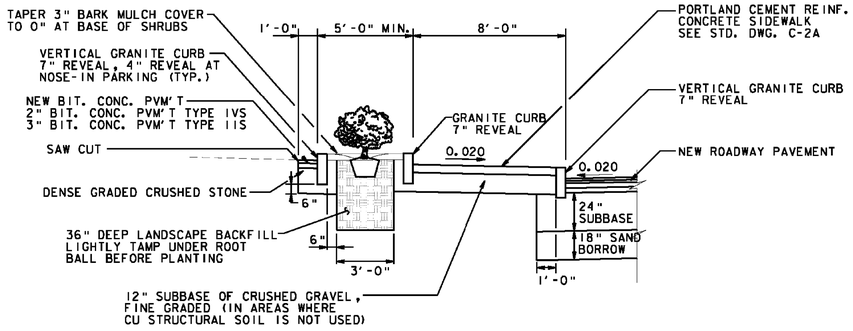


• CUT CURB TO MAX. HEIGHT OF 14" FOR 12' SEGMENTS ADJACENT TO EACH TREE TO ENCOURAGE ROOT GROWTH IN CU STRUCTURAL SOIL. (INCIDENTAL TO CURB ITEM)

SECTION VIEW

TREE PLANTING BED AT PLAZA WITH CU STRUCTURAL SOIL UNDER SIDEWALK

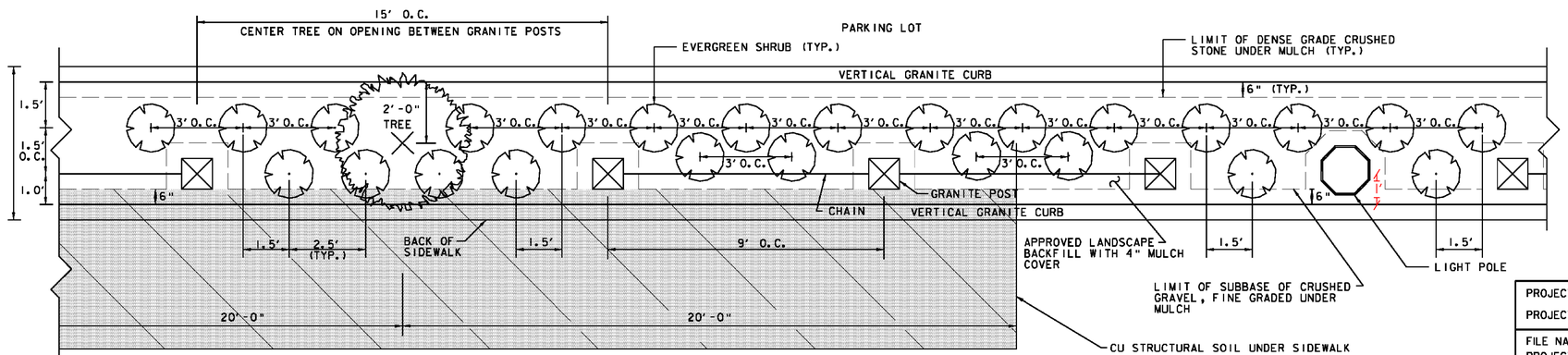
N.T.S.



SECTION VIEW

PLANTING BED AT PLAZA WITHOUT CU STRUCTURAL SOIL UNDER SIDEWALK

N.T.S.

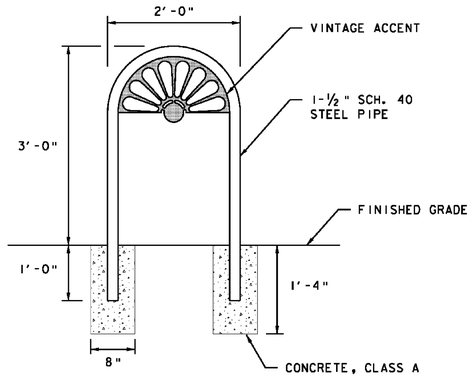


TREES, SHRUBS, AND BOLLARD LAYOUT AT PLAZA

N.T.S.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: 85b010_LDSDET_C2	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
LANDSCAPING DETAILS #2	SHEET 92 OF 339



SECTION VIEW

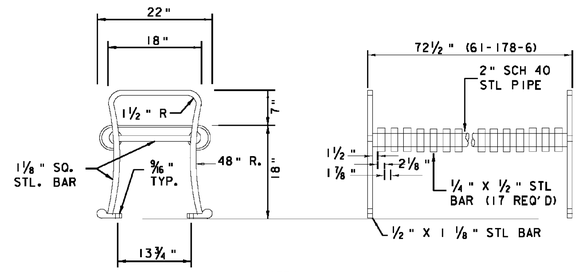


PLAN VIEW

NOTES:

1. BIKE RACK AND HARDWARE FINISHED WITH POLYESTER POWDER COATING - BLACK.
2. SHALL NOT BE MOUNTED WITHIN 24" PARALLEL TO BUILDING, OBJECT, OR ROADWAY.
3. SHALL NOT BE MOUNTED WITHIN 30" PERPENDICULAR TO BUILDING, OBJECT, OR ROADWAY.

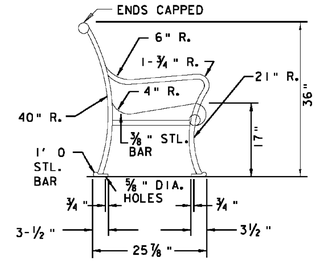
SPECIAL PROVISION (BICYCLE RACK)
N.T.S.

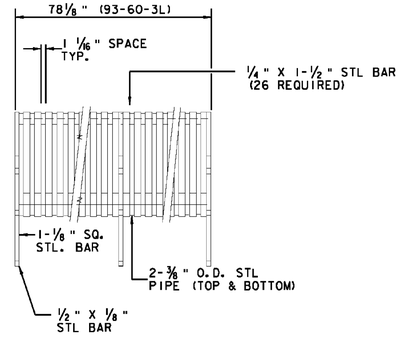


NOTES:

1. BENCH IS WELDED COMPLETELY INTO ONE UNIT AT FACTORY
2. ALL WELDS CONT. THEN GROUND SMOOTH
3. BENCH FINISHED W/ POLYESTER POWDER COATING - BLACK
4. 8" GALV. STEEL ANCHOR BOLTS IN EPOXY GROUT BY INSTALLER, TYP.

SPECIAL PROVISION (STEEL BENCH WITHOUT BACK)
N.T.S.

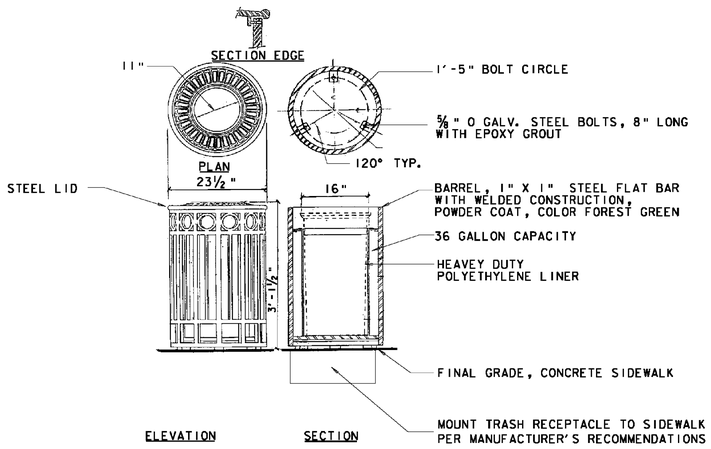




NOTES:

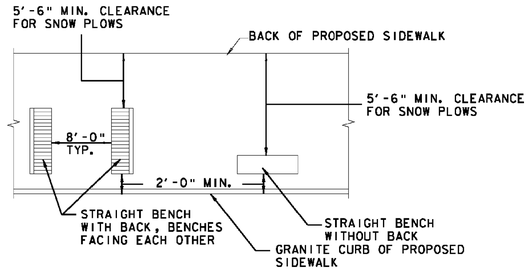
1. BENCH IS WELDED COMPLETELY INTO ONE UNIT AT FACTORY
2. ALL WELDS CONT. THEN GROUND SMOOTH
3. BENCH FINISHED W/ POLYESTER POWDER COATING - BLACK
4. 8" GALV. STEEL ANCHOR BOLTS IN EPOXY GROUT BY INSTALLER, TYP.

SPECIAL PROVISION (STEEL BENCH WITH BACK)
N.T.S.



* SPECIAL PROVISION (TRASH RECEPTACLE)
N.T.S.

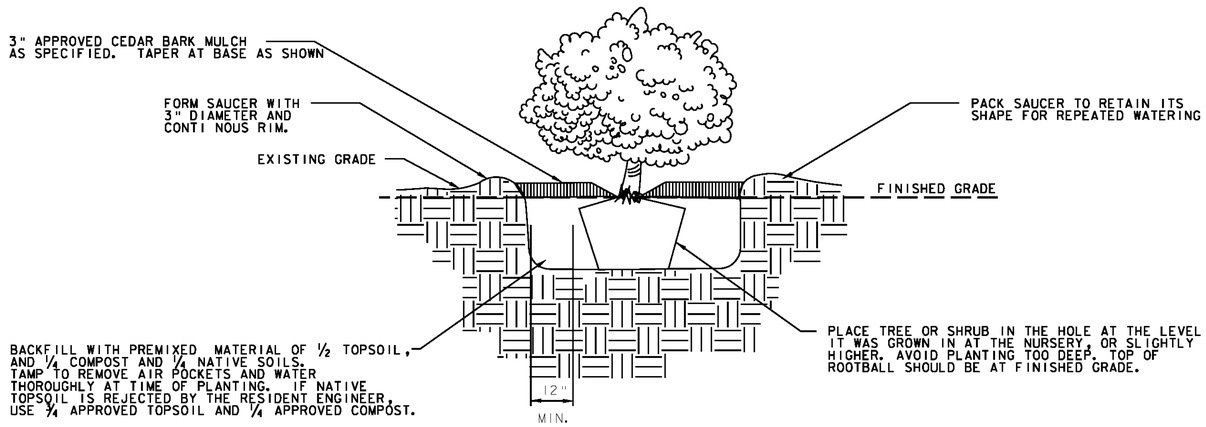
* RAIN COVERS ADDED VIA CHANGE ORDER



ENLARGED PLAN OF BENCH LOCATIONS
N.T.S.

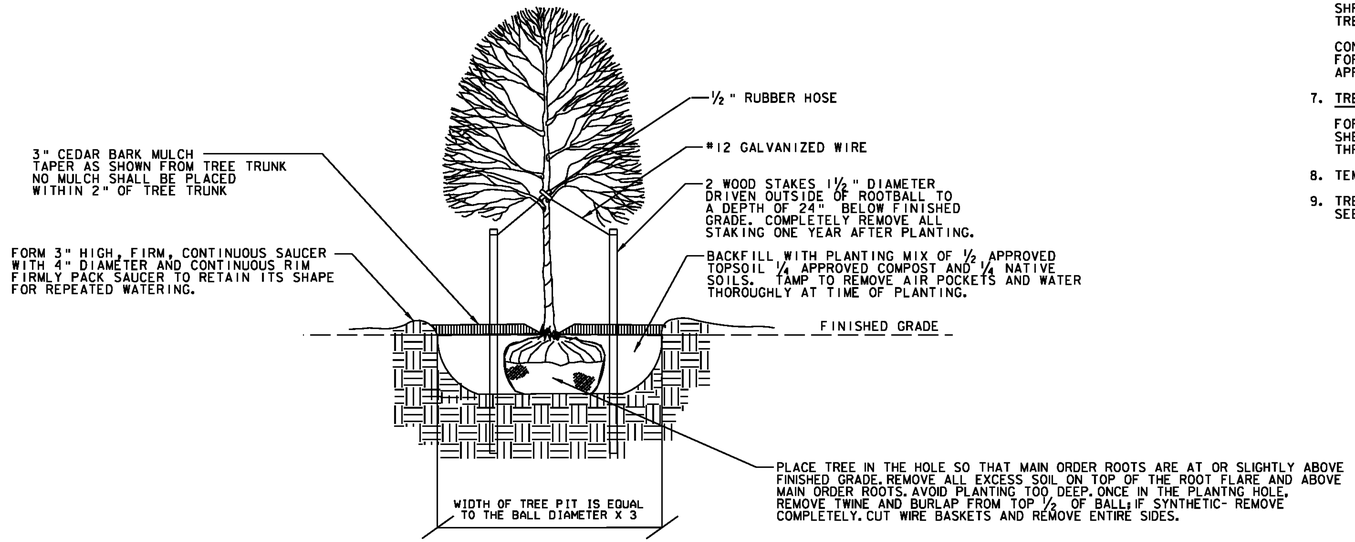
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: 85b010_LDSDET_C2	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
LANDSCAPING DETAILS #3	SHEET 93 OF 339

VHB Vanasse Hangen Brustlin, Inc.



SHRUB PLANTING DETAIL

(IN AREAS OTHER THAN PLAZA)
N.T.S.



DECIDUOUS TREE PLANTING DETAIL OUTSIDE OF SIDEWALKS

(IN AREAS OTHER THAN PLAZA AND SIDEWALK)
N.T.S.

GENERAL LANDSCAPE NOTES:

1. BARK MULCH IS INCLUDED IN THE UNIT PRICE BID FOR THE SECTION 656 PLANTING ITEMS.
2. SEE ROADWAY TYPICAL SECTION SHEETS FOR SEEDING FORMULAS, FERTILIZER APPLICATION RATES, MULCH REQUIREMENTS, ETC.
3. SEE SUBSECTION 755.07 MYCORRHIZAL FUNGI PRODUCT FOR THE APPLICATION OF MYCORRHIZAL FUNGI PER MANUFACTURER'S RECOMMENDATIONS AND SUBSECTION 755.01 LANDSCAPE BACKFILL FOR THE APPLICATION OF COMPOST.
4. ORGANIC MATERIAL

   TOPSOIL, COMPOST AND NATIVE EXISTING SOIL SHALL BE TESTED AT AN APPROVED LAB PRIOR TO DELIVERY ON SITE AND INSTALLATION. ORGANIC MATTER SHALL BE A MINIMUM OF 5%.
5. LANDSCAPE BACKFILL

   BACKFILL WITH PLANTING MIX OF ½ SCREENED TOPSOIL, ¼ COMPOST, ¼ NATIVE SOILS AS APPROVED BY THE ENGINEER. UNSUITABLE NATIVE MATERIAL SHALL BE REPLACED WITH IMPORTED APPROVED TOPSOIL AS DIRECTED BY ENGINEER. REFER TO SUBSECTION 755.01.
6. WATERING

   SHRUBS TO RECEIVE A MINIMUM OF 5 GALLONS AT EACH WATERING, TWICE WEEKLY DURING ESTABLISHMENT PERIOD.
   TREES TO RECEIVE A MINIMUM OF 10 GALLONS AT EACH WATERING, TWICE WEEKLY DURING ESTABLISHMENT PERIOD.

   CONTRACTOR SHALL MAINTAIN AND PROVIDE A LOG TO THE ENGINEER SHOWING AMOUNTS AND DATES OF WATERING FOR ALL PLANTINGS AND NOTING NATURAL RAINFALL EVENTS. WATERING SCHEDULE MAY BE ADJUSTED AS APPROVED BY THE ENGINEER. REFER TO SUBSECTION 656.08(f).
7. TREE PIT WIDTH

   FOR TREES WITHIN PROJECT CONSTRUCTION LIMIT, THE DIMENSIONS OF BACK FILL PLANTING MIX ARE NOTED ON EACH SHEET. FOR ALL TREES TO BE PLANTED OUTSIDE PROJECT CONSTRUCTION LIMITS, THE PLANTING PIT SHALL BE THREE TIMES THE WIDTH OF THE ROOT BALL.
8. TEMPORARY STORAGE OF ALL PLANTS SHALL BE LIMITED TO 45 DAYS FROM THE TIME OF DELIVERY UNTIL PLANTING.
9. TREES DESIGNATED TO BE PROTECTED SHALL BE WATERED AT THE SAME RATE AND SCHEDULE AS NEW PLANTINGS. SEE SUBSECTION 656.10 TREE PROTECTION.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_LDSDET_C2	PLOT DATE: 3/23/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
LANDSCAPING DETAILS #4	SHEET 94 OF 339

VHB Vanasse Hangen Brustlin, Inc.

OVERHEAD SIGN SUPPORT NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2006, WITH CURRENT MODIFICATIONS.

2. OVERHEAD SIGN SUPPORTS SHALL CONFORM TO AASHTO'S PUBLICATION ENTITLED "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", DATED 2009 AND ITS LATEST INTERIMS.

3. THE DESIGN CALCULATIONS SHALL TAKE INTO ACCOUNT THE FOLLOWING CRITERIA:

   STRUCTURE CRITERIA
   - DESIGN LIFE: 50 YEARS
   - WIND LOAD: 90 MPH, UNLESS SPECIAL SITE CONDITIONS DICTATE
   - ICE LOAD PER AASHTO'S PUBLICATION ENTITLED 'STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS', DATED 2009

   FATIGUE CRITERIA
   - FATIGUE CATEGORY: I FOR MAST ARM SIGN STRUCTURES, 2 FOR SIGNAL MAST ARMS
   - VORTEX SHEDDING: INCLUDE
   - NATURAL WIND GUST: INCLUDE
   - TRUCK INDUCED WIND GUSTS: INCLUDE FOR ROADWAYS WHERE SPEED LIMIT IS 40 MPH OR GREATER
   - GALLOPING: DO NOT INCLUDE IN DESIGN CALCULATIONS

   FOUNDATION CRITERIA
   - CONCRETE: CONCRETE, HIGH PERFORMANCE CLASS B, STATE OF VERMONT, AGENCY OF TRANSPORTATION'S 'STANDARD SPECIFICATIONS FOR CONSTRUCTION', DATED 2006, SECTION 501
   - REINFORCING STEEL: STATE OF VERMONT, AGENCY OF TRANSPORTATION'S 'STANDARD SPECIFICATIONS FOR CONSTRUCTION', DATED 2006, SUB-SECTION 713.01

   ALLOWABLE BEARING CAPACITY: IN ACCORDANCE WITH GEOTECHNICAL REPORT
   INTERNAL SOIL FRICTION ANGLE, ϕ: IN ACCORDANCE WITH GEOTECHNICAL REPORT
   WHICH IS MADE PART OF THIS CONTRACT.

4. ANCHOR BOLTS

   A MINIMUM OF FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED WITH EACH POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL. STATE OF VERMONT, AGENCY OF TRANSPORTATION'S 'STANDARD SPECIFICATIONS FOR CONSTRUCTION', DATED 2006, SUB-SECTION 714.09.

5. FLANGE BOLTS

   ALL FLANGE BOLTS AND HEX NUTS SHALL BE HIGH STRENGTH STEEL AND SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION'S 'STANDARD SPECIFICATIONS FOR CONSTRUCTION', DATED 2006, SUB-SECTION 714.05.

6. HORIZONTAL AND VERTICAL MEMBERS

   STEEL TUBES SHALL BE FORMED AND WELDED WITH ONE CONTINUOUS LONGITUDINAL WELD ONLY. AFTER FORMING AND WELDING THEY SHALL BE COLD ROLLED TO ENSURE UNIFORMITY OF SIZE AND SMOOTHNESS OF WELD. THERE SHALL BE NO TRANSVERSE WELDING EXCEPT AT THE FLANGE CONNECTIONS AND POLE BASE PLATES, WHERE THE TUBES SHALL TELESCOPE THE FLANGES AND PLATES AND BE CONTINUOUSLY WELDED BOTH SIDES INSIDE AND OUT TO WITHSTAND THE FULL TRANSFER OF THE BENDING STRENGTH TO THE BOLTS. OPTIONALLY, THE MEMBERS MAY BE A SERIES OF TWO OR THREE DIFFERENT DIAMETER PIPES WELDED TOGETHER. STEEL TUBES SHALL BE CONSTRUCTED FROM MATERIALS CONFORMING TO STATE OF VERMONT, AGENCY OF TRANSPORTATION'S 'STANDARD SPECIFICATIONS FOR CONSTRUCTION', DATED 2006, SUB-SECTION 752.02.

7. GALVANIZING

   ANY STEEL COMPONENTS, EXCEPT CONCRETE REINFORCING AND STAINLESS STEEL HARDWARE THAT ARE NOT CALLED OUT TO BE PAINTED BLACK, ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. THE ASSEMBLIES SHALL BE DESIGNED AND FABRICATED TO PERMIT GALVANIZING ON ALL INTERIOR AND EXTERIOR SURFACES AND SHALL BE FREE OF POCKETS AND OTHER STRUCTURAL OBSTRUCTIONS THAT WILL NOT PERMIT PROPER DEPOSITION OF ZINC COATING. GALVANIZING SHALL BE IN ACCORDANCE WITH STATE OF VERMONT, AGENCY OF TRANSPORTATION'S 'STANDARD SPECIFICATIONS FOR CONSTRUCTION', DATED 2006, SUB-SECTION 752.02.

8. WELDING

   ALL DESIGN DETAILS, WORKMANSHIP, PROCEDURES AND INSPECTION SHALL CONFORM TO VTRANS SPECIFICATIONS SUB-SECTION 506.10.

9. FOUNDATIONS

   A. FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE MREI 10-01 GUIDELINES ISSUED BY THE AGENCY.

   B. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES:

      1. ALL FOUNDATIONS FOR SIGN STRUCTURES SHALL BE CYLINDRICAL. SPREAD FOOTINGS SHALL NOT BE PERMITTED. ALL SIGN STRUCTURE FOUNDATIONS SHALL BE DESIGNED TO BE CONTAINED ENTIRELY WITHIN STATE OR TOWN RIGHTS-OF-WAY.

      2. EXCEPT FOR THE UPPERMOST 2 FEET OF SOIL, DRILLED SHAFT FOUNDATIONS SHALL BE POURED AGAINST UNDISTURBED MATERIAL; THE TOP 2 FEET OF SOIL SHALL BE NEGLECTED FOR DESIGN PURPOSES. A DISPOSABLE CIRCULAR CONCRETE FORM, IF USED, SHALL NOT BE PLACED DEEPER THAN 2 FEET, IN ORDER NOT TO REDUCE THE FRICTION BETWEEN THE SOIL AND THE CONCRETE.

      3. AS AN ALTERNATIVE TO THE DRILLED HOLES, FOUNDATIONS MAY BE POURED IN EXCAVATED HOLES USING THE PROPER FORMS, WHICH SHALL BE REMOVED. THE EXCAVATED HOLES SHALL BE AT LEAST 2 FEET CLEAR OF THE FOUNDATION SIDES AND 1 FOOT DEEPER THAN THE FOUNDATION. CARE SHALL BE TAKEN TO AVOID EXCAVATING AROUND THE TOP OF THE FOUNDATION. DESIGN LIMITS AS FOR AN AUGURED FOUNDATION APPLY.

      4. BACKFILL MATERIAL PLACED ADJACENT TO THE FOUNDATION SHALL MEET THE REQUIREMENTS FOR GRANULAR BACKFILL FOR STRUCTURES, VTRANS SPECIFICATION SUB-SECTION 704.08. BACKFILL MATERIAL SHALL BE COMPACTED AS DESCRIBED IN VTRANS CONSTRUCTION SPECIFICATIONS SUB-SECTION 204.08.

      5. CONCRETE FOR FOUNDATION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 501. IF DRILLED SHAFT FOUNDATIONS ARE REQUIRED, THE CONCRETE SPECIFICATIONS MAY NEED TO BE ADJUSTED FOR CONSTRUCTIBILITY ISSUES. HOWEVER, IF REQUIRED, THE CONTRACTOR SHALL SUBMIT ANY CHANGES TO THE CONCRETE SPECIFICATION FOR REVIEW BY THE VTRANS PROJECT MANAGER.

      6. STEEL PILES SHALL MEET THE REQUIREMENTS OF SECTION 505.

      7. WHEN THE DESIGN DEPTH OF A FOUNDATION CANNOT BE OBTAINED DUE TO UNFORESEEN FIELD CONDITIONS AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CONTACT THE MANUFACTURER TO OBTAIN A REVISED FOUNDATION DESIGN. SUCH A REVISION SHALL BE SUBMITTED TO THE VERMONT, AGENCY OF TRANSPORTATION, PROJECT MANAGER AND MAY REQUIRE UP TO A 4 WEEK REVIEW PERIOD BY VTRANS.

   C. SIGNS SHALL BE INSTALLED AND LEVELED AND POLES SHALL BE PLUMB PRIOR TO PLACING GROUT UNDER POLE BASE. GROUT MATERIAL SHALL BE NON-SHRINKING MORTAR CONFORMING TO SUB-SECTION 707.03 (MORTAR TYPE IV).

10. EACH OVERHEAD TRAFFIC SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF:

    A) AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.

    B) A #6 AWG. (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.

    C) A $\frac{5}{8}$" X 8' (MIN.) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6 FEET).

    WHEN A POWER SERVICE, METER AND DISCONNECT ARE ATTACHED TO A POLE, THERE SHALL BE A CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE METER AND DISCONNECT WHICH MAY RUN INTERNAL TO THE UPRIGHT, THROUGH THE $\frac{1}{2}$ INCH FLEXIBLE TUBING IN THE CONCRETE BASE TO THE REQUIRED GROUNDING ELECTRODE(S). THE GROUNDING ELECTRODE CONDUCTOR FROM THE POLE GROUNDING LUG, CONTROLLER CABINET AND/OR LUMINAIRE MAY ATTACH TO THIS CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT. THE CONTRACTOR SHALL PERFORM A RESISTANCE TO GROUND TEST ON THE CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT AND PROVIDE A WRITTEN STATEMENT TO THE AREA ELECTRICAL INSPECTOR THAT THE GROUNDING ELECTRODE CONDUCTOR IS CONTINUOUS FROM THE SERVICE METER AND DISCONNECT AND THE RESISTANCE TO GROUND IS 25 OHMS OR LESS.

11. HORIZONTAL MEMBERS SHALL BE CAMBERED AND THE VERTICAL POLES BACK RAKED (WHERE APPLICABLE) TO THE ANTICIPATED DEAD LOAD DEFLECTION PLUS THE CAMBER, IF ANY, SPECIFIED ON THE PLANS.

12. AN EQUIVALENT ALTERNATE DESIGN MAY BE SUBSTITUTED FOR THE DETAILS AND MATERIALS SHOWN. THE VERMONT AGENCY OF TRANSPORTATION SHALL HAVE THE SOLE AUTHORITY AND RETAIN THE DISCRETION TO DETERMINE IF THE CONTRACTOR'S ALTERNATE DESIGN IS EQUIVALENT AND ACCEPTABLE.

13. THE DETAILS OF DESIGN FOR THE STRUCTURE AND FOUNDATION(S) ARE TO BE SUPPLIED BY THE CONTRACTOR AND/OR BY THE MANUFACTURER. THE STRUCTURE SHALL BE DESIGNED TO RESIST THE MAXIMUM LOADING AS OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2 AND 14G). ALL DESIGN CALCULATIONS FOR THE STRUCTURE AND THE FOUNDATION(S) SHALL BE CHECKED AND STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF VERMONT PRIOR TO SUBMITTAL OF THE FABRICATION DRAWINGS TO THE VERMONT AGENCY OF TRANSPORTATION.

14. THE CONTRACTOR SHALL SUBMIT THREE (3) COPIES OF THE DESIGN CALCULATIONS TO THE VERMONT AGENCY OF TRANSPORTATION, PROJECT MANAGER, SHOWING THE FOLLOWING INFORMATION FOR EACH OF THE VERTICAL AND HORIZONTAL COMPONENTS OF THE STRUCTURE AND FOUNDATION:

    A. THE DESIGN AXIAL AND SHEAR FORCES AND BENDING AND TORSIONAL MOMENTS ACTING AT THE TOP OF THE FOUNDATION.

    B. THE DESIGN AXIAL, BENDING AND SHEAR STRESSES AND THE COMBINED STRESS RATIO.

    C. THE ALLOWABLE AXIAL, BENDING, AND SHEAR STRESSES.

    D. ITEMS A, B, C - SHALL BE SHOWN FOR EACH OF THE GROUP LOADINGS (I,II,III) AND FOR THE BASIC WIND LOAD APPLIED TO THE TWO CASES OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2) SECTION 1.2.5 (D) (4).

    E. FAILURE TO SUPPLY THE PROPER DESIGN INFORMATION SHALL BE CAUSE FOR REJECTION OF THE STRUCTURE.

    F. A MINIMUM OF FOUR (4) WEEKS SHALL BE REQUIRED FOR REVIEW BY THE VERMONT AGENCY OF TRANSPORTATION AND THE ENGINEER OF RECORD (VANASSE HANGEN BRUSTLIN, INC).

    G. EVERY MEMBER AND CONNECTION IN AN OVERHEAD TRAFFIC SIGN SUPPORT SHALL HAVE A MAXIMUM DESIGN RATIO OF 85% TO PROVIDE RESIDUAL CAPACITY FOR FUTURE MODIFICATIONS TO SIGN SIZE OR CONFIGURATIONS.

15. FABRICATION DRAWINGS (6 COPIES OF EACH) SHALL BE SUBMITTED TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION, PROJECT MANAGER FOR APPROVAL PRIOR TO FABRICATION. THE FABRICATION DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

    A. DETAILED DRAWING OF EACH COMPONENT OF THE STRUCTURE.

    B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

    C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET).

    D. DETAILS FOR LOCATION OF SIGNS AND ATTACHMENT HARDWARE FOR THE SUPPORT STRUCTURE.

    E. ALL ELEVATIONS AND DIMENSIONS NECESSARY TO PROVIDE A COMPLETE SET OF RECORD PLANS.

    F. DEAD LOAD DEFLECTION AND CAMBER INFORMATION.

    G. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE FABRICATION DRAWINGS. (SEE SUB-SECTION 506.10).

    H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETION OF THE STRUCTURE AND FOUNDATION DATA ON THE DETAIL SHEETS.

16. BASE PLATES SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GAUGE AND THE HORIZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH, GAUGE, ALTERNATELY. THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HAND HOLE.

17. SEE STANDARD E-171A FOR ADDITIONAL NOTES.

18. SEE SHEETS 110-129 FOR SIGN DESIGNS

19. SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS FOR PAINTED SIGN STRUCTURES.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2
FILE NAME: z09B240_TSPS-Notes.dgn	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
OVERHEAD SIGN SUPPORT NOTES	SHEET 95 OF 339

VHB Vanasse Hangen Brustlin, Inc.

LETTER OR SYMBOL

STA 111+73 RT	(LEFT ARROW)
STA 112+53 RT	("ONLY")
STA 112+82 RT	("ONLY")
STA 113+33 RT	(RIGHT ARROW)
STA 113+33 RT	(LEFT ARROW)
STA 114+57 RT	(LEFT ARROW)
STA 114+57 LT	(RIGHT ARROW)
STA 115+12 LT	("ONLY")
STA 115+37 RT	("ONLY")
STA 115+68 LT	(RIGHT ARROW)
STA 116+17 RT	(LEFT ARROW)
SL STA 20+50 LT	(LEFT/THRU)
SL STA 20+50 LT	(RIGHT ARROW)
SL STA 21+36 LT	(LEFT/THRU)
SL STA 21+36 LT	("ONLY")
SL STA 10+59 LT	(RIGHT ARROW)
SL STA 10+59 LT	(LEFT/THRU)
SL STA 11+47 LT	(LEFT/THRU)
SL STA 11+47 LT	("ONLY")
SL STA 31+01 RT	(THRU ARROW)
SL STA 31+18 RT	(THRU ARROW)

4 INCH YELLOW LINE

STA 111+36 - 111+50 CL	(DOUBLE)	30'
STA 111+58 - 113+39 CL	(DOUBLE)	364'
STA 114+50 - 116+32 RT	(DOUBLE)	370'
SL STA 20+49 - 21+00 LT		
SL STA 20+49 - 21+00 RT		
SL STA 21+00 - 21+75 LT	(DOUBLE)	
SL STA 21+00 - 21+75 RT	(DOUBLE)	
SL STA 10+58 - 11+75 LT		194'
SL STA 10+58 - 11+75 RT		194'
SL STA ~~30+35~~ 30+75 - 31+42 CL	(DOUBLE)	278'
STA 111+00 LT (BROOK ST.)		142'
STA 110+25 - 111+12 CL		178'

8 INCH YELLOW LINE

SL STA 21+00 - 21+75 (HATCHING)

RAILROAD CROSSING SYMBOL

SL STA 10+89 - 12+46 RT (TWO)

24 INCH STOP BAR

STA 113+39 RT	
STA 114+50 LT-RT	
SL STA 20+41 - 20+49 LT	36.5'
SL STA 10+50 - 10+56 LT	36.33'
SL STA 30+35 LT	14.66'

CROSSWALK MARKING

STA 110+70 - 111+29 LT	53'
STA 111+54 LT-RT	48'
STA 113+48 - 113+46 LT-RT	84.33'
STA 114+43 - 114+42 LT-RT	86'
SL STA 20+33 - 20+44 LT-RT	92.66'
SL STA 10+42 - 10+52 LT-RT	94'
SL STA 30+27 LT-RT	32.66'

MATCH TO STA. 21+75 (SHEET 102)

STA 111+00 LT (BROOK ST.) 20'

VT STATE PLANE GRID

MATCH TO STA. 116+90 (SHEET 97)

4 INCH WHITE LINE

STA 110+65 - 111+50 RT	(BROKEN)	15'
STA 110+65 - 111+50 RT	(BROKEN)	
STA 111+25 - 111+50 LT		
STA 111+58 - 113+44 LT		187'
STA 111+58 - 113+37 RT		182'
STA 111+58 - 113+37 RT		182'
STA 111+58 - 112+64 RT	(BROKEN)	182'
STA 112+50 - 113+39 LT	(DASHED)	30'
STA 112+64 - 113+37 RT		
STA 114+46 - 116+90 RT		283'
STA 114+50 - 116+00 RT	(BROKEN)	40'
STA 114+52 - 116+32 CL		183'
STA 114+52 - 115+80 LT		151'
STA 114+52 - 116+38 LT		164'
SL STA 20+44 - 21+75 LT		97'
SL STA 20+47 - 21+75 LT		66'
SL STA 20+48 - 21+75 RT		63'
SL STA 20+49 - 21+25 RT	(DASHED)	20'
SL STA 21+25 - 21+75 RT	(BROKEN)	
SL STA 10+52 - 11+75 LT		215'
SL STA 10+70 - 11+75 RT	(DASHED)	50'
SL STA 10+53 - 11+75 LT		215'
SL STA 10+55 - 11+75 RT		189'

REMOVING SIGNS (TYPE B)

STA 112+95 LT-RT (OVERHEAD/4 SIGNS)
STA 115+41 LT-RT (OVERHEAD/4 SIGNS)
SL STA 21+28 LT-RT (OVERHEAD/3 SIGNS)
SL STA 11+21 LT-RT (OVERHEAD/3 SIGNS)

REMOVING SIGNS (TYPE A)

STA 111+50 LT
STA 115+39 LT (2 SIGNS)
STA 115+49 RT
SL STA 20+52 CL (7 SIGNS)
SL STA 20+91 CL (5 SIGNS)
SL STA 10+62 CL (3 SIGNS)
SL STA 10+94 LT (2 SIGNS)
SL STA 11+14 CL (2 SIGNS)
SL STA 11+14 RT
SL STA 11+21 LT (3 SIGNS)
SL STA 11+50 LT
SL STA 11+55 CL
SL STA 30+54 LT (3 SIGNS)
SL STA 30+54 RT
STA 21+65, RT

SPECIAL PROVISION

(REMOVE EXISTING OVERHEAD TRAFFIC SIGN ASSEMBLY, MULTI-SUPPORT)

STA 112+95 LT-RT (OVERHEAD/4 SIGNS)
STA 115+41 LT-RT (OVERHEAD/4 SIGNS)
SL STA 21+28 LT-RT (OVERHEAD/3 SIGNS)
SL STA 11+21 LT-RT (OVERHEAD/3 SIGNS)

ERECTING SALVAGED SIGNS

SL STA 20+52 CL (3 SIGNS)
SL STA 20+91 CL (2 SIGNS)
STA 21+65, RT

MATCH TO STA. 11+75 (SHEET 103)

STRIPING LEGEND

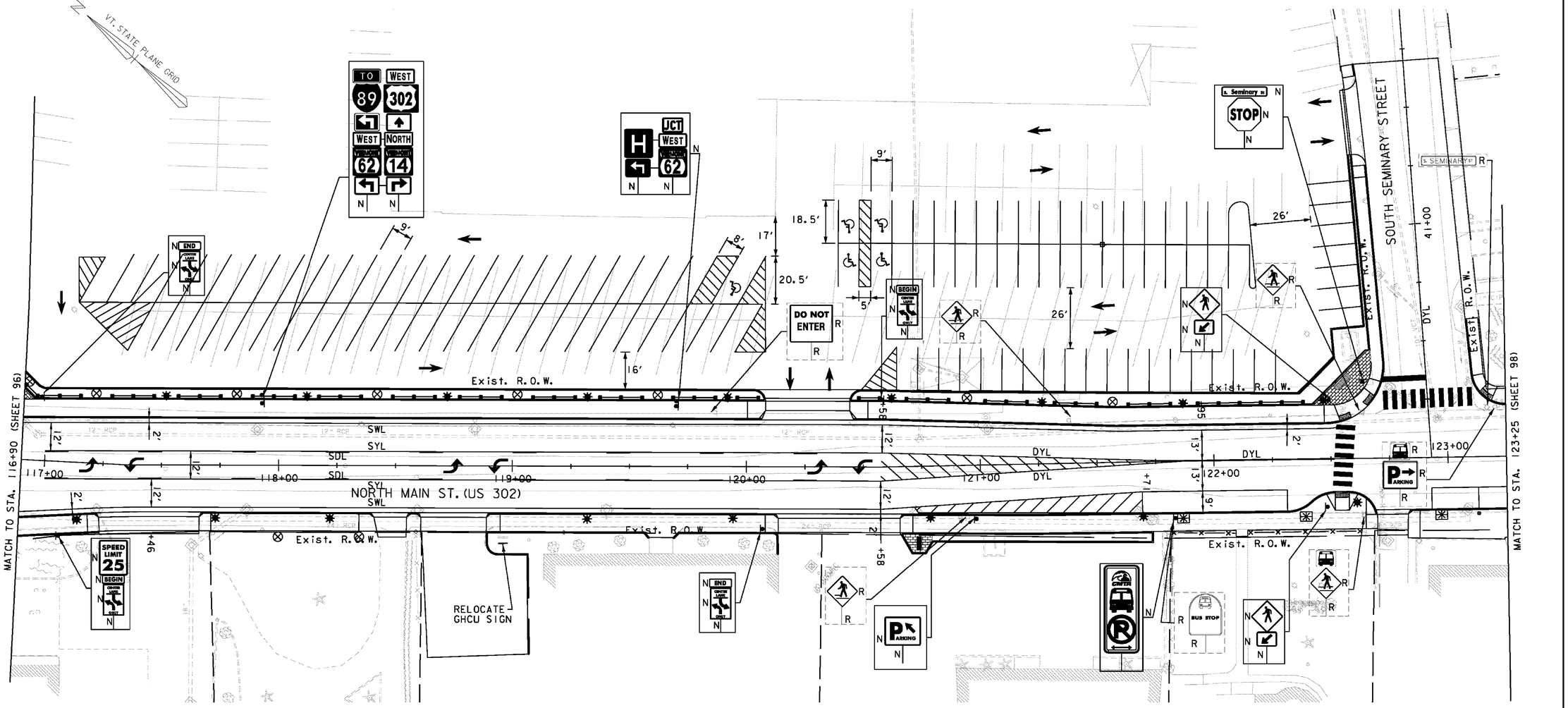
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC-F 026-I(34) C/2
FILE NAME: z85b010bdr_spm_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
SIGNS AND PAVEMENT MARKING PLANS #1	SHEET 96 OF 339

VHB Vanasse Hangen Brustlin, Inc.



4 INCH WHITE LINE

STA 116+86 - 122+53 LT } 1102'
STA 116+90 - 121+71 RT }
STA 117+10 - 122+64 LT (PLAZA STRIPING)
STA 121+71 - 122+31 RT (BUS PARKING) 49'
STA 122+93 - 123+25 RT PARKING LANES) 67'

4 INCH YELLOW LINE

STA 117+00 - 120+58 LT 386'
STA 117+00 - 120+58 LT (DASHED) 125'
STA 117+00 - 120+58 RT 386'
STA 117+00 - 120+58 RT (DASHED) 123'
STA 120+58 LT - 121+95 CL (DOUBLE) 216'
STA 120+58 RT - 121+95 CL (DOUBLE) 216'
STA 121+95 - 122+53 CL (DOUBLE) 164'
SL STA 40+33 - 40+70 CL (DOUBLE) 326

8 INCH YELLOW LINE

STA 120+58 - 121+91 (HATCHING) 121'

24 INCH STOP BAR

SL STA 40+34 LT 20'

LETTER OR SYMBOL

STA 117+04 LT (THRU ARROW)
STA 117+21 CL (LEFT ARROW)
STA 117+37 CL (LEFT ARROW)
STA 118+65 LT (THRU ARROW)
STA 118+76 CL (LEFT ARROW)
STA 118+81 LT (THRU ARROW)
STA 118+92 CL (LEFT ARROW)
STA 119+95 LT (HANDICAP)
STA 120+17 LT (THRU ARROW)
STA 120+32 CL (LEFT ARROW)
STA 120+35 LT (THRU ARROW)
STA 120+43 LT (HANDICAP)
STA 120+43 LT (HANDICAP)
STA 120+48 CL (LEFT ARROW)
STA 120+58 LT (HANDICAP)
STA 120+58 LT (HANDICAP)
STA 121+28 LT (THRU ARROW)
STA 121+28 LT (THRU ARROW)
STA 121+54 LT (THRU ARROW)
STA 121+54 LT (THRU ARROW)
SL STA 41+38 LT (THRU ARROW)
SL STA 41+55 LT (THRU ARROW)
STA 118+75 ~ 120+25, RT GHCU (THRU ARROW)

CROSSWALK MARKING

STA 122+55 LT-RT 30.5'
SL STA 40+25 - 40+26 RT-LT 49'

ERECTING SALVAGED SIGNS

120+73 RT (PRIVATE)

REMOVING SIGNS (TYPE A)

STA 119+86 LT
STA 120+96 RT
STA 121+39 LT
STA 122+64 LT
STA 122+64 RT (2 SIGNS)
STA 123+20 LT (2 SIGNS)

SPECIAL PROVISION
(REMOVE AND RESET COMMERCIAL SIGN)

STA 118+96 RT (GHCU)

SPECIAL PROVISION
(REMOVE AND RESET FLAG POLE)

STA 119+07 RT

REMOVAL OF EXISTING PAVEMENT MARKINGS

STA 117+31 - 122+55 LT (EXISTING PARKING LOT)

SPECIAL PROVISION
(PARKING METER POSTS)

STA 123+13 RT

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND

SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

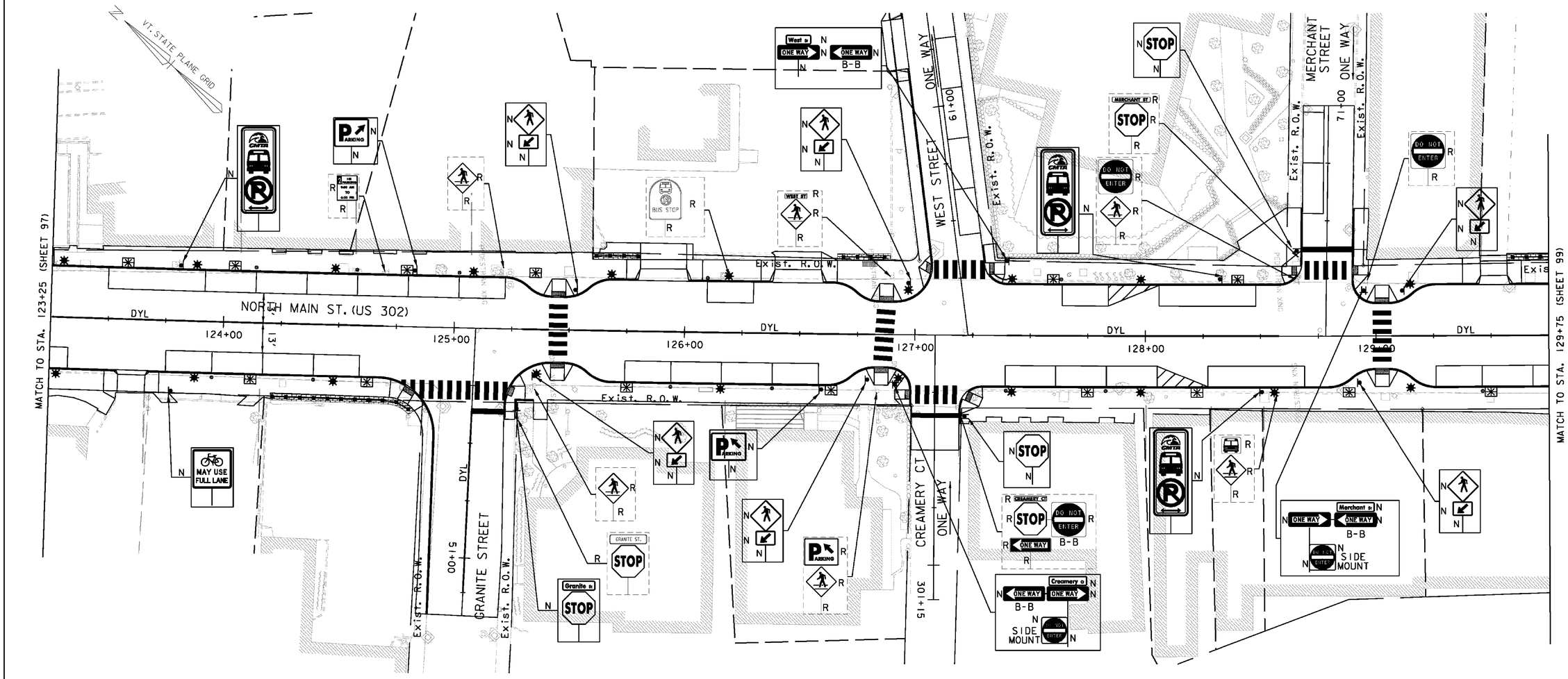
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FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-I(34) C/2

FILE NAME: z85b010bdr_spm_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
SIGNS AND PAVEMENT MARKING PLANS #2

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 97 OF 339



4 INCH WHITE LINE

STA 123+25	- 123+33	RT	(PARKING LANES)
STA 123+50	- 123+92	LT	(BUS PARKING) 48′
STA 123+92	- 125+22	LT	(PARKING LANES) 143′
STA 123+75	- 124+59	RT	(PARKING LANES) 124′
STA 125+74	- 126+59	RT	(PARKING LANES) 124′
STA 126+10	- 126+30	LT	(PARKING LANE) 38′
STA 127+39	- 128+05	RT	(PARKING LANES) 100′
STA 127+64	- 127+84	LT	(PARKING LANE) 38′
STA 127+84	- 128+06	LT	(NO PARKING ZONE) 48′
STA 128+05	- 128+27	RT	(NO PARKING ZONE) 42.5′
STA 128+06	- 128+48	LT	(BUS PARKING) 59′
STA 128+27	- 128+69	RT	(BUS PARKING) 59′
STA 129+26	- 129+75	RT	(PARKING LANES) 98′
SL STA 60+43	- 61+35	RT	(PARKING LANES)
SL STA 70+53	- 71+00	LT	(PARKING LANES) 90′

4 INCH YELLOW LINE

STA 123+26	- 124+69	CL	(DOUBLE) 286′
STA 125+29	- 125+41	CL	(DOUBLE) 24′
STA 125+49	- 126+83	CL	(DOUBLE) 268′
STA 127+40	- 128+58	CL	(DOUBLE) 236′
STA 129+07	- 129+75	CL	(DOUBLE) 136′
SL STA 50+35	- 51+15	CL	(DOUBLE) 160′

24 INCH STOP BAR

SL STA 50+35	LT	12′
SL STA 70+37	LT-RT	22′
SL STA 300+34	LT-RT	20.5′

CROSSWALK MARKING

STA 125+45	LT-RT	28′
STA 126+87	LT-RT	28′
STA 129+03	LT-RT	28′
SL STA 50+26	- 50+28	LT-RT 42′
SL STA 60+27	- 60+30	RT-LT 24′
SL STA 70+28	- 70+29	LT-RT 22′
SL STA 300+26	LT-RT	23′

REMOVING SIGNS (TYPE A)

STA 124+70 LT
STA 125+21 LT
STA 125+35 RT
STA 126+19 LT
STA 126+85 RT (2 SIGNS)
STA 126+90 LT (2 SIGNS)
STA 127+19 RT (4 SIGNS)
STA 128+56 RT (2 SIGNS)
STA 128+65 LT (2 SIGNS)
STA 128+67 LT (2 SIGNS)
STA 128+95 LT
SL STA 50+38 LT (2 SIGNS)

SPECIAL PROVISION
(PARKING METER POSTS)

STA 123+95 RT
STA 124+14 LT
STA 124+39 RT
STA 124+58 LT
STA 125+02 LT
STA 125+94 RT
STA 126+10 LT
STA 126+38 RT
STA 127+39 RT
STA 127+64 LT
STA 127+83 RT
STA 129+46 RT

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND

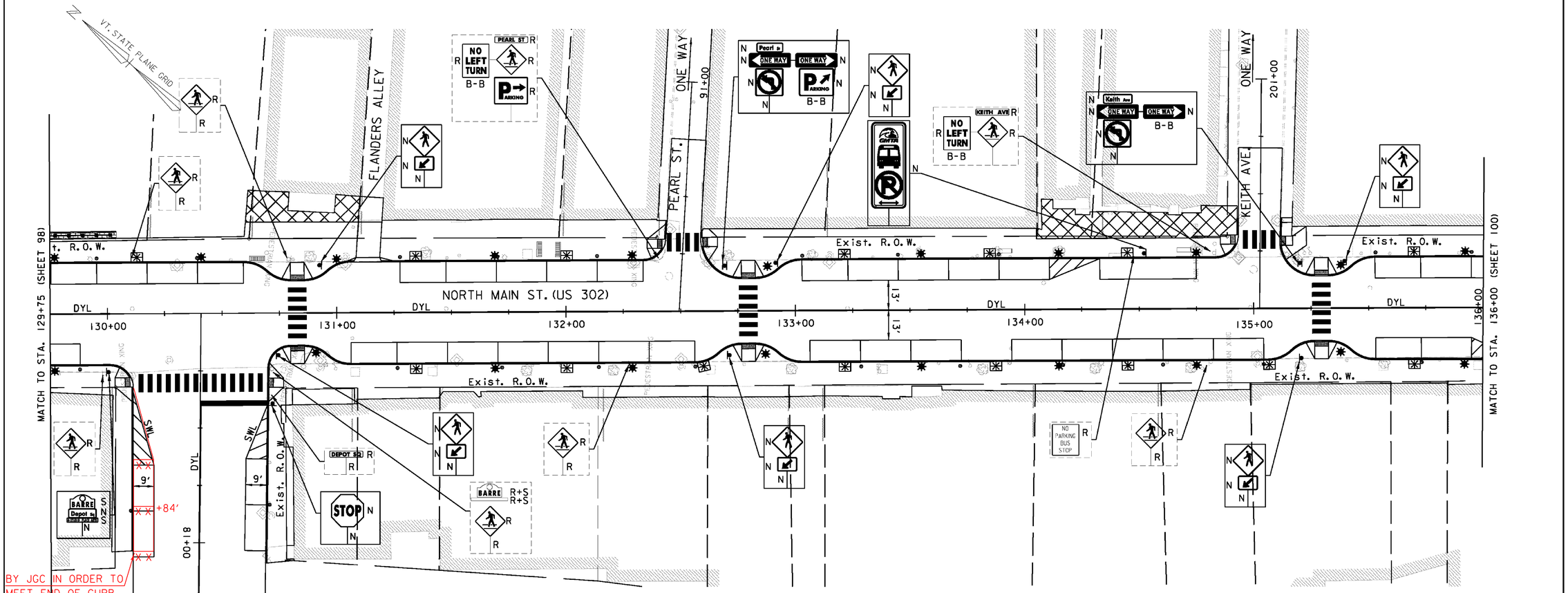
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-1(34) C/2

FILE NAME: z85b010bdr_spm_C2 PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS DRAWN BY: D. PECK
DESIGNED BY: D. PECK CHECKED BY:
SIGNS AND PAVEMENT MARKING PLANS #3 SHEET 98 OF 339



QUANTITY COMBINED WITH PREVIOUS SHEET

4 INCH WHITE LINE

STA 129+75 - 129+88 RT (PARKING LANES)
STA 129+75 - 130+59 LT (PARKING LANES) 130'
STA 131+06 - 132+56 RT (PARKING LANES)
STA 131+28 - 132+34 LT (PARKING LANES)
STA 133+03 - 134+11 LT (PARKING LANES)
STA 133+06 - 133+72 RT (PARKING LANES)
STA 133+94 - 135+04 RT (PARKING LANES)
STA 134+11 - 134+33 LT (NO PARKING ZONE)
STA 134+33 - 134+75 LT (BUS PARKING)
STA 135+53 - 135+95 RT (PARKING LANES)
STA 135+53 - 136+00 LT (PARKING LANES)
STA 135+95 - 136+00 RT (NO PARKING ZONE)
SL STA 80+35 - 80+66 RT (NO PARKING ZONE)
SL STA 80+40 - 80+63 LT (NO PARKING ZONE)
SL STA 80+63 - 81+03 LT (PARKING LANES)
SL STA ~~80+66~~ 80+64 - ~~81+06~~ 81+04 RT (PARKING LANES)

4 INCH YELLOW LINE

STA 129+75 - 130+01 CL (DOUBLE)
STA 130+87 - 132+76 CL (DOUBLE)
STA 132+84 - 135+25 CL (DOUBLE)
STA 135+33 - 136+00 CL (DOUBLE)
SL STA 80+38 - 81+85 CL (DOUBLE)

24 INCH STOP BAR

SL STA 80+38 LT

CROSSWALK MARKING

STA 130+83 LT-RT
STA 132+80 LT-RT
STA 135+29 LT-RT
SL STA 80+30 LT-RT
SL STA 90+30 LT-RT
SL STA 200+30 LT-RT

REMOVING SIGNS (TYPE A)

STA 129+99 RT
STA 130+11 LT
STA 130+72 RT (3 SIGNS)
STA 130+79 LT
STA 132+28 RT
STA 132+40 LT (4 SIGNS)
STA 134+47 LT
STA 134+82 RT
STA 134+83 LT (3 SIGNS)
SL STA 80+36 LT

SPECIAL PROVISION
(PARKING METER POSTS) (LT)

STA 129+95
STA 130+39
STA 131+28
STA 131+70
STA 132+14
STA 133+03
STA 133+45
STA 133+89
STA 135+53
STA 135+95
SL STA 80+83

ERECTING SALVAGED SIGNS

STA 130+00 RT (2 SIGNS)

SPECIAL PROVISION
(PARKING METER POSTS) (RT)

STA 129+88
STA 131+26
STA 131+72
STA 132+14
STA 132+56
STA 133+29
STA 133+72
STA 134+17
STA 134+60
STA 135+04
STA 135+73
SL STA ~~80+86~~ 80+84

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND

SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

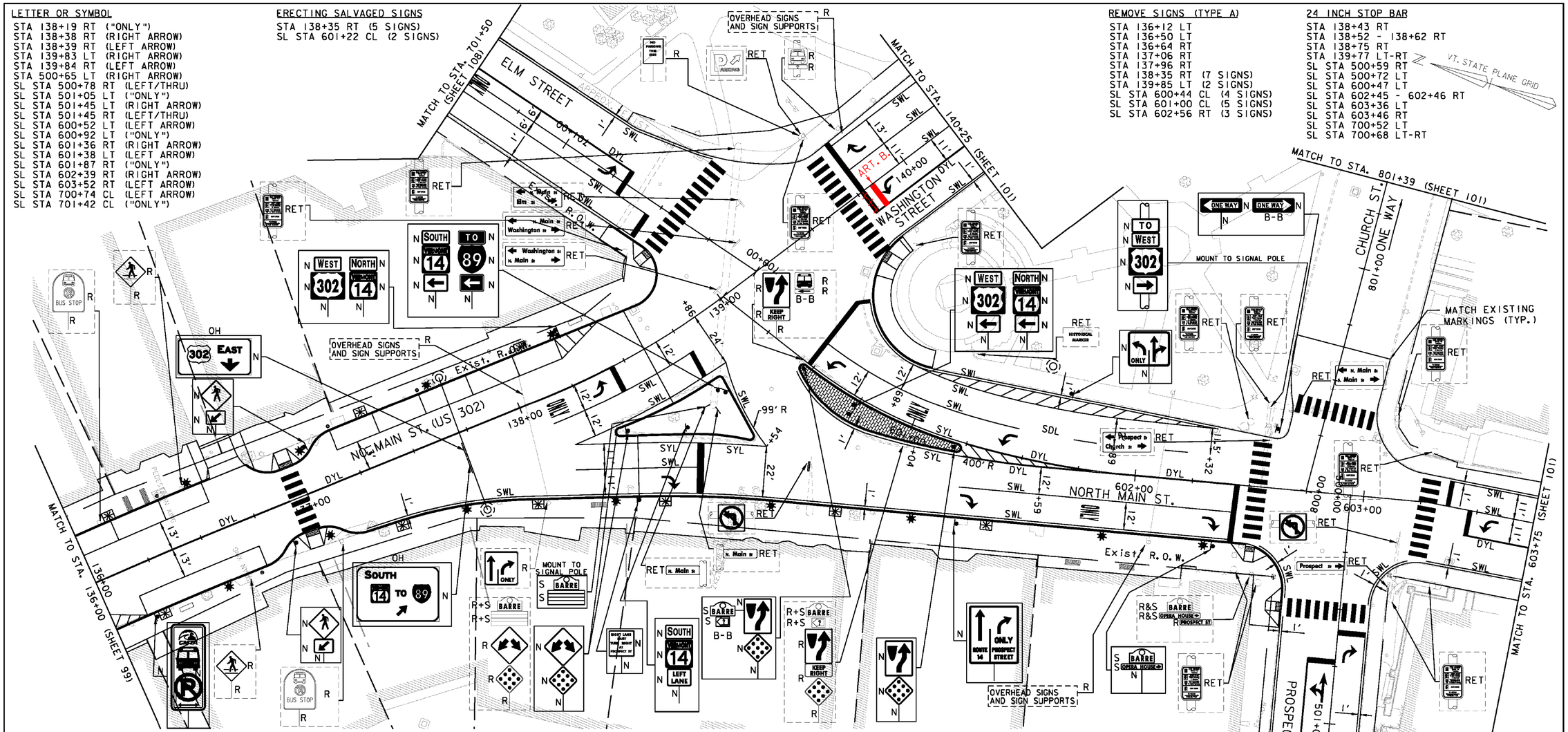
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FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-1(34) C/2

FILE NAME: z85b010bdr_spm_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
SIGNS AND PAVEMENT MARKING PLANS #4

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 99 OF 339



LETTER OR SYMBOL

STA 138+19 RT ("ONLY")
STA 138+38 RT (RIGHT ARROW)
STA 138+39 RT (LEFT ARROW)
STA 139+83 LT (RIGHT ARROW)
STA 139+84 RT (LEFT ARROW)
STA 500+65 LT (RIGHT ARROW)
SL STA 500+78 RT (LEFT/THRU)
SL STA 501+05 LT ("ONLY")
SL STA 501+45 LT (RIGHT ARROW)
SL STA 501+45 RT (LEFT/THRU)
SL STA 600+52 LT (LEFT ARROW)
SL STA 600+92 LT ("ONLY")
SL STA 601+36 RT (RIGHT ARROW)
SL STA 601+38 LT (LEFT ARROW)
SL STA 601+87 RT ("ONLY")
SL STA 602+39 RT (RIGHT ARROW)
SL STA 603+52 RT (LEFT ARROW)
SL STA 700+74 CL (LEFT ARROW)
SL STA 701+42 CL ("ONLY")

ERECTING SALVAGED SIGNS

STA 138+35 RT (5 SIGNS)
SL STA 601+22 CL (2 SIGNS)

REMOVE SIGNS (TYPE A)

STA 136+12 LT
STA 136+50 LT
STA 136+64 RT
STA 137+06 RT
STA 137+96 RT
STA 138+35 RT (7 SIGNS)
STA 139+85 LT (2 SIGNS)
SL STA 600+44 CL (4 SIGNS)
SL STA 601+00 CL (5 SIGNS)
SL STA 602+56 RT (3 SIGNS)

24 INCH STOP BAR

STA 138+43 RT
STA 138+52 - 138+62 RT
STA 138+75 RT
STA 139+77 LT-RT
SL STA 500+59 RT
SL STA 500+72 LT
SL STA 600+47 LT
SL STA 602+45 - 602+46 RT
SL STA 603+36 LT
SL STA 603+46 RT
SL STA 700+52 LT
SL STA 700+68 LT-RT

4 INCH YELLOW LINE

STA 136+00 - 136+92 CL (DOUBLE)
STA 137+00 - 138+45 CL (DOUBLE)
STA 138+16 RT - 600+54 RT
STA 139+77 - 140+25 RT (DOUBLE)
SL STA 500+72 - 501+58 RT (DOUBLE)
SL STA 600+45 - 601+25 RT
SL STA 600+47 - 601+25 CL
SL STA 601+25 - 602+46 CL (DOUBLE)
SL STA 601+25 RT - 601+89 CL (DOUBLE)
SL STA 603+46 - 603+75 RT (DOUBLE)
SL STA 700+68 - 701+50 RT (DOUBLE)

8 INCH YELLOW LINE

SL STA 601+25 - 601+89 RT (DIAGONALS)

SPECIAL PROVISION
(REMOVE EXISTING OVERHEAD TRAFFIC SIGN ASSEMBLY, MULTI-SUPPORT)

STA 137+96 - 138+07 RT-LT (OVERHEAD/4 SIGNS)
STA 139+85 LT-RT (OVERHEAD/4 SIGNS)
SL STA 602+08 LT-RT (OVERHEAD/3 SIGNS)

4 INCH WHITE LINE

STA 136+00 - 136+15 RT (NO PARKING ZONE)
STA 136+00 - 136+59 LT (NO PARKING ZONE)
STA 136+15 - 136+72 RT (BUS PARKING)
STA 137+19 - 138+26 LT (PARKING LANES)
STA 137+19 RT - 602+46 RT
STA 138+11 - 138+78 RT
STA 138+13 - 138+57 RT
STA 138+16 - 138+86 RT
STA 138+26 - 138+48 LT (NO PARKING ZONE)
STA 138+86 RT - 600+54 RT
STA 139+73 - 140+25 RT
STA 139+79 - 140+25 CL
STA 139+79 - 140+25 LT
SL STA 500+55 - 501+58 RT
SL STA 500+59 - 501+58 CL
SL STA 500+59 - 501+58 LT

REMOVING SIGNS (TYPE B)

STA 137+96 - 138+07 RT-LT (OVERHEAD/4 SIGNS)
STA 139+85 LT-RT (OVERHEAD/4 SIGNS)
SL STA 602+08 LT-RT (OVERHEAD/3 SIGNS)

4 INCH WHITE LINE (CONT.)

SL STA 600+47 - 601+46 LT
SL STA 600+53 - 602+32 LT
SL STA 600+89 - 602+32 LT
SL STA 601+27 - 602+45 RT
SL STA 601+46 - 602+34 LT (DASHED)
SL STA 602+57 RT - 500+47 RT
SL STA 603+21 RT - 500+47 LT
SL STA 603+32 - 603+75 RT
SL STA 603+36 - 603+75 CL
SL STA 603+36 - 603+75 LT
SL STA 700+28 RT - 139+65 LT
SL STA 700+43 - 701+50 RT
SL STA 700+52 - 701+50 LT
SL STA 700+52 - 701+52 LT

8 INCH WHITE LINE

SL STA 600+89 - 602+32 LT (DIAGONALS)

CROSSWALK MARKING

STA 136+96 LT-RT
STA 139+69 LT-RT
SL STA 500+51 LT-RT
SL STA 602+53 - 602+54 RT-LT
SL STA 603+26 - 603+29 RT-LT
SL STA 700+35 - 700+47 RT-LT
SL STA 800+36 - 800+37 LT-RT

SPECIAL PROVISION
(PARKING METER POSTS)

STA 136+39 LT
STA 137+19 LT
STA 137+61 LT
STA 138+05 LT

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND

SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-I(34) C/2

FILE NAME: z85b0l0bdr_spm_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
SIGNS AND PAVEMENT MARKING PLANS #5

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 100 OF 339

4 INCH WHITE LINE

STA 140+25 - 141+00 LT
STA 140+25 - 141+00 LT
STA 140+25 - 141+00 CL
STA 140+25 - 141+00 RT
SL STA 603+75 - 604+25 RT
SL STA 603+75 - 604+00 CL
SL STA 603+75 - 604+25 LT

4 INCH YELLOW LINE

STA 140+25 - 141+00 RT (DOUBLE)
SL STA 603+75 - 604+25 RT (DOUBLE)

LETTER OR SYMBOL

STA 140+41 LT ("ONLY")
STA 140+64 RT ("ONLY")
STA 140+92 LT (RIGHT ARROW)
SL STA 603+92 RT ("ONLY")

REMOVING SIGNS (TYPE A)

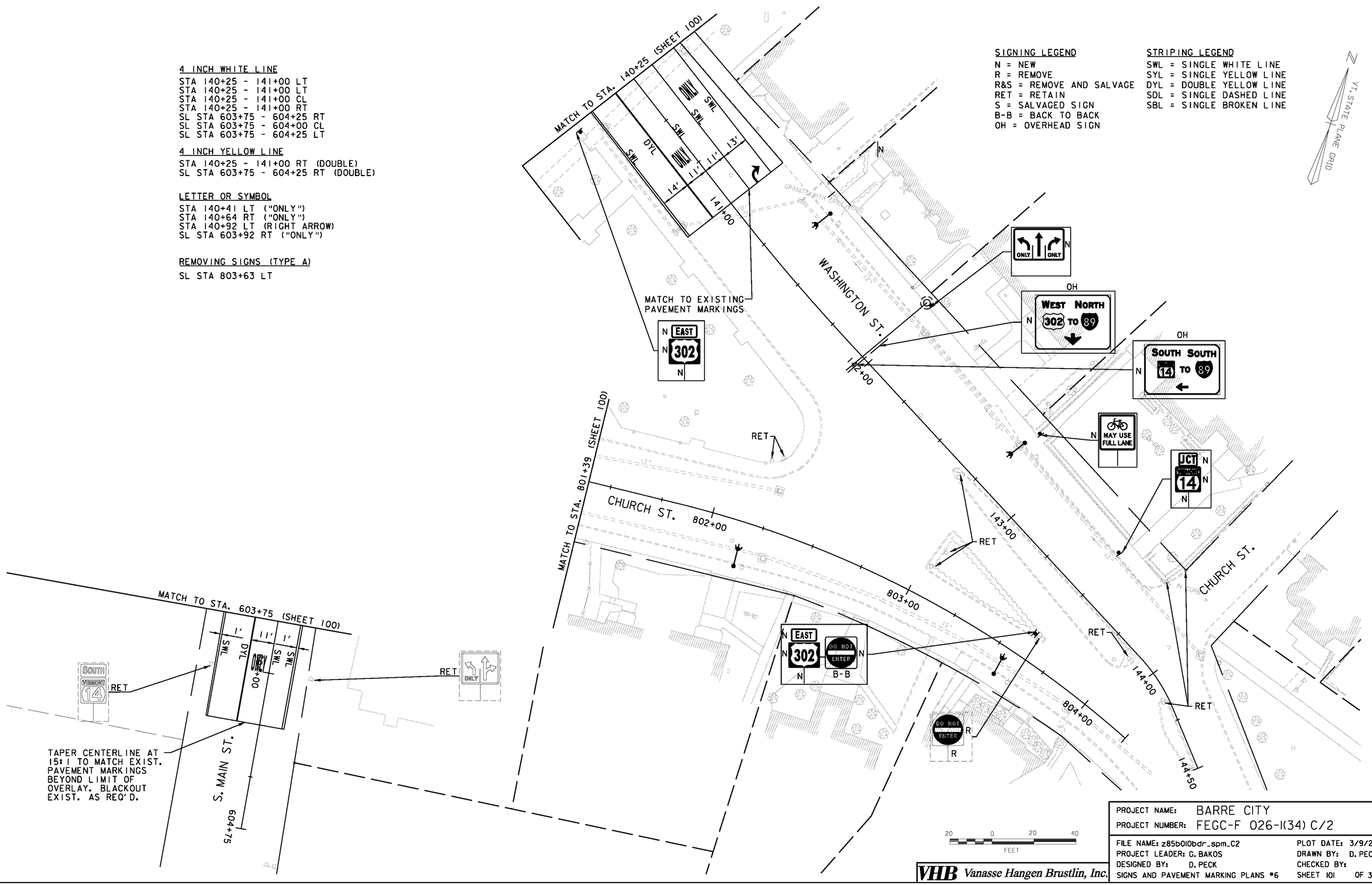
SL STA 803+63 LT

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

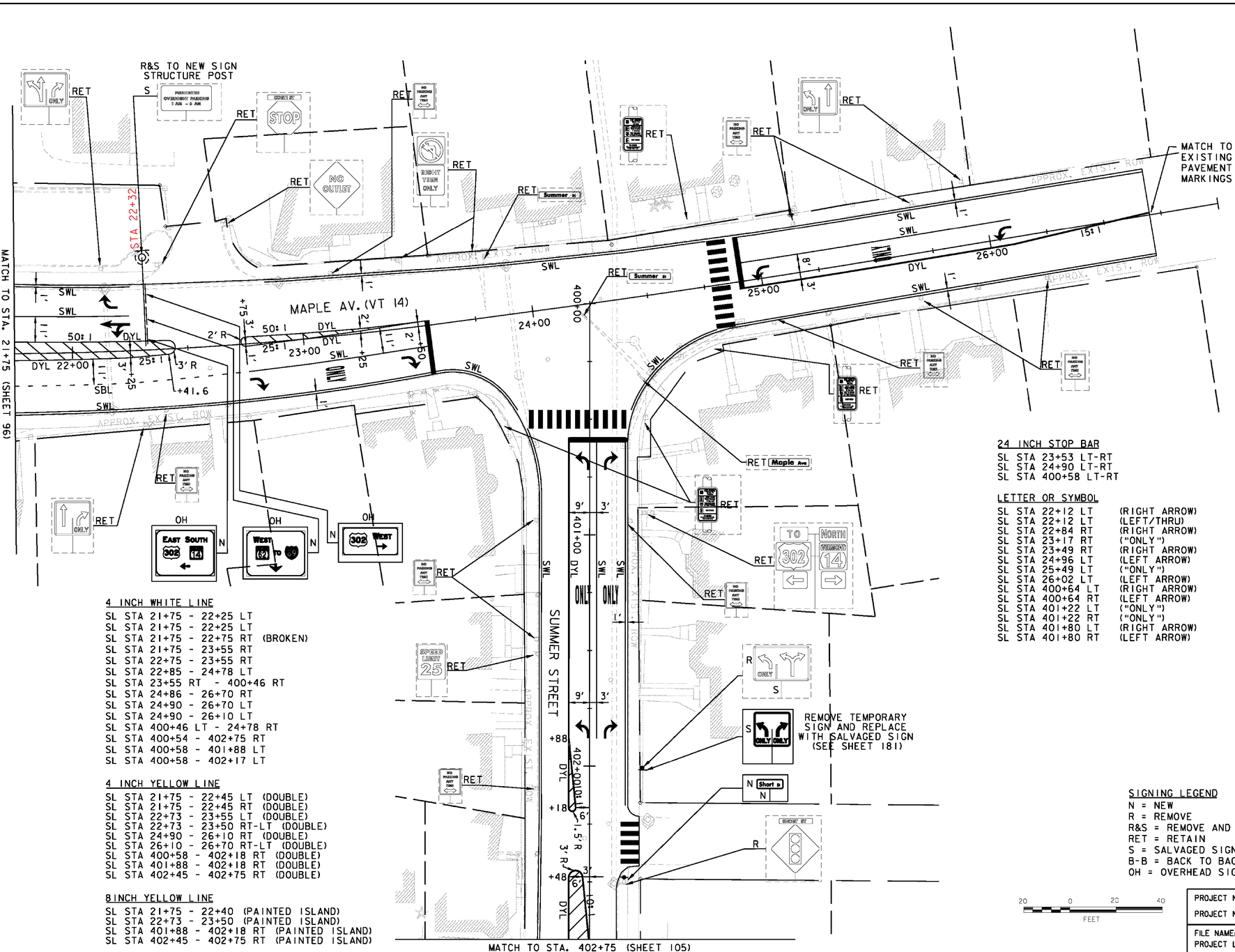
STRIPING LEGEND

SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE



VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC-F 026-1(34) C/2
FILE NAME: z85b010bdr_spm_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
SIGNS AND PAVEMENT MARKING PLANS #6	SHEET 101 OF 339



4 INCH WHITE LINE
SL STA 21+75 - 22+25 LT
SL STA 21+75 - 22+25 LT
SL STA 21+75 - 22+75 RT (BROKEN)
SL STA 21+75 - 23+55 RT
SL STA 22+75 - 23+55 RT
SL STA 22+85 - 24+78 LT
SL STA 23+55 RT - 400+46 RT
SL STA 24+86 - 26+70 RT
SL STA 24+90 - 26+70 LT
SL STA 24+90 - 26+10 LT
SL STA 400+46 LT - 24+78 RT
SL STA 400+54 - 402+75 RT
SL STA 400+58 - 401+88 LT
SL STA 400+58 - 402+17 LT

4 INCH YELLOW LINE
SL STA 21+75 - 22+45 LT (DOUBLE)
SL STA 21+75 - 22+45 RT (DOUBLE)
SL STA 22+73 - 23+55 LT (DOUBLE)
SL STA 22+73 - 23+50 RT-LT (DOUBLE)
SL STA 24+90 - 26+10 RT (DOUBLE)
SL STA 26+10 - 26+70 RT-LT (DOUBLE)
SL STA 400+58 - 402+18 RT (DOUBLE)
SL STA 401+88 - 402+18 RT (DOUBLE)
SL STA 402+45 - 402+75 RT (DOUBLE)

8 INCH YELLOW LINE
SL STA 21+75 - 22+40 (PAINTED ISLAND)
SL STA 22+73 - 23+50 (PAINTED ISLAND)
SL STA 401+88 - 402+18 RT (PAINTED ISLAND)
SL STA 402+45 - 402+75 RT (PAINTED ISLAND)

24 INCH STOP BAR
SL STA 23+53 LT-RT
SL STA 24+90 LT-RT
SL STA 400+58 LT-RT

LETTER OR SYMBOL

SL STA 22+12 LT	(RIGHT ARROW)
SL STA 22+12 LT	(LEFT/THRU)
SL STA 22+84 RT	(RIGHT ARROW)
SL STA 23+17 RT	("ONLY")
SL STA 23+49 RT	(RIGHT ARROW)
SL STA 24+96 LT	(LEFT ARROW)
SL STA 25+49 LT	("ONLY")
SL STA 26+02 LT	(LEFT ARROW)
SL STA 400+64 LT	(RIGHT ARROW)
SL STA 400+64 RT	(LEFT ARROW)
SL STA 401+22 LT	("ONLY")
SL STA 401+22 RT	("ONLY")
SL STA 401+80 LT	(RIGHT ARROW)
SL STA 401+80 RT	(LEFT ARROW)

CROSSWALK MARKING
SL STA 24+82 LT-RT
SL STA 400+50 LT-RT
SL STA 402+21-402+44 LT

REMOVING SIGNS (TYPE A)
SL STA 401+91 LT
SL STA 402+47 LT (2 SIGNS)

ERECTING SALVAGED SIGNS
SL STA 401+91 LT
SL STA 22+32 LT

SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

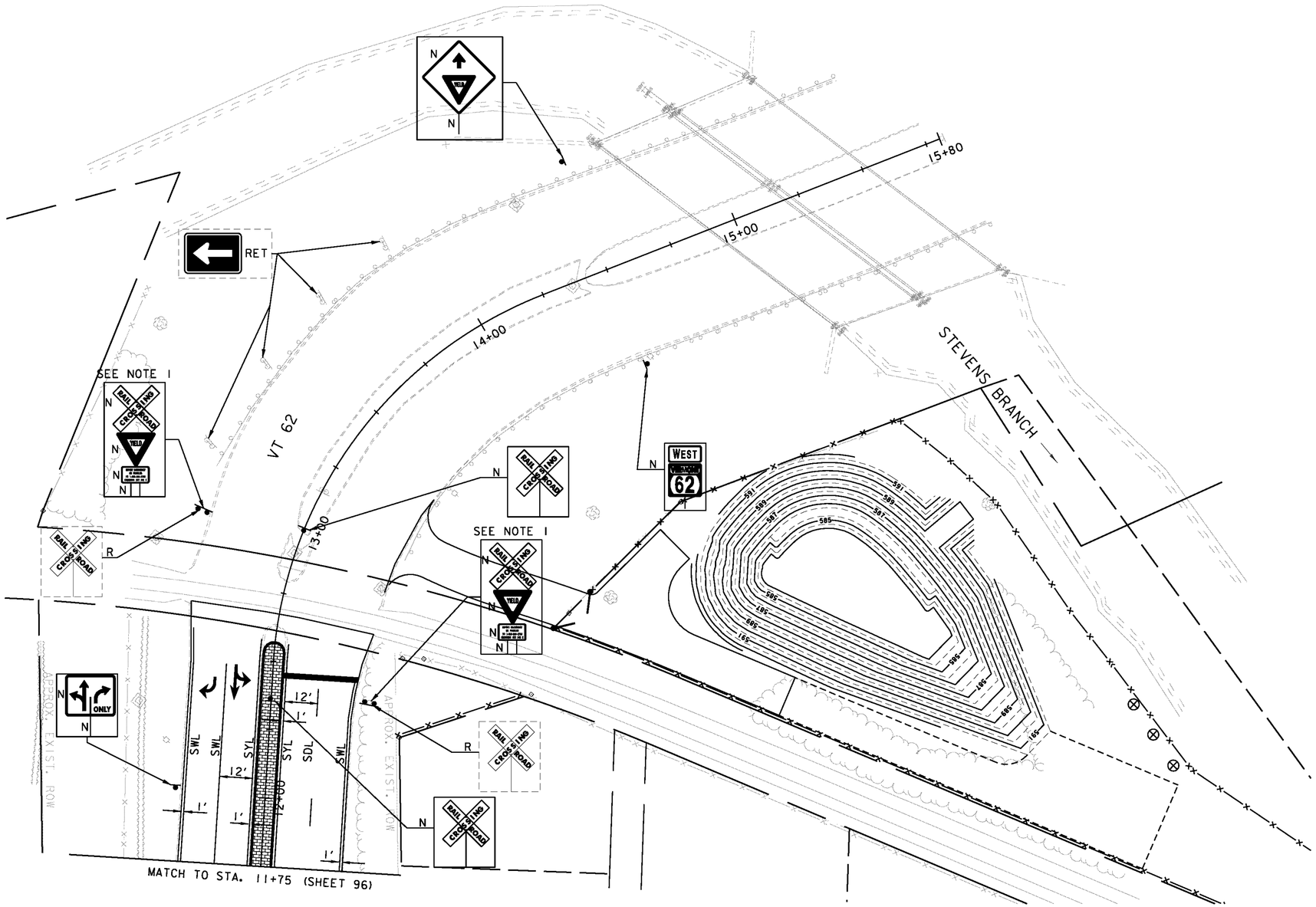
STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b0l0bdr_spm_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY: G. BAKOS
SIGNS AND PAVEMENT MARKING PLANS #7
SHEET 102 OF 339



VT STATE PLANE GRID

NOTE: YIELD SIGNS, CROSSBUCKS, AND SUPPORT TO BE INSTALLED IN ACCORDANCE WITH MUTCD FIGURE 8B-2 FOR POSITION, REFLECTIVE STRIP ON SUPPORT POST, AND MOUNTING HEIGHT.

REMOVING SIGNS (TYPE A)
SL STA 12+36 RT
SL STA 12+95 LT

4 INCH WHITE LINE
SL STA 11+75 - 12+65 LT
SL STA 11+75 - 12+48 LT
SL STA 11+75 - 12+44 RT (DASHED)
SL STA 11+75 - 12+64 RT

4 INCH YELLOW LINE
SL STA 11+75 - 12+65 LT
SL STA 11+75 - 12+65 RT

LETTER OR SYMBOL
SL STA 12+35 LT (RIGHT ARROW)
SL STA 12+35 LT (LEFT/THRU)

SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

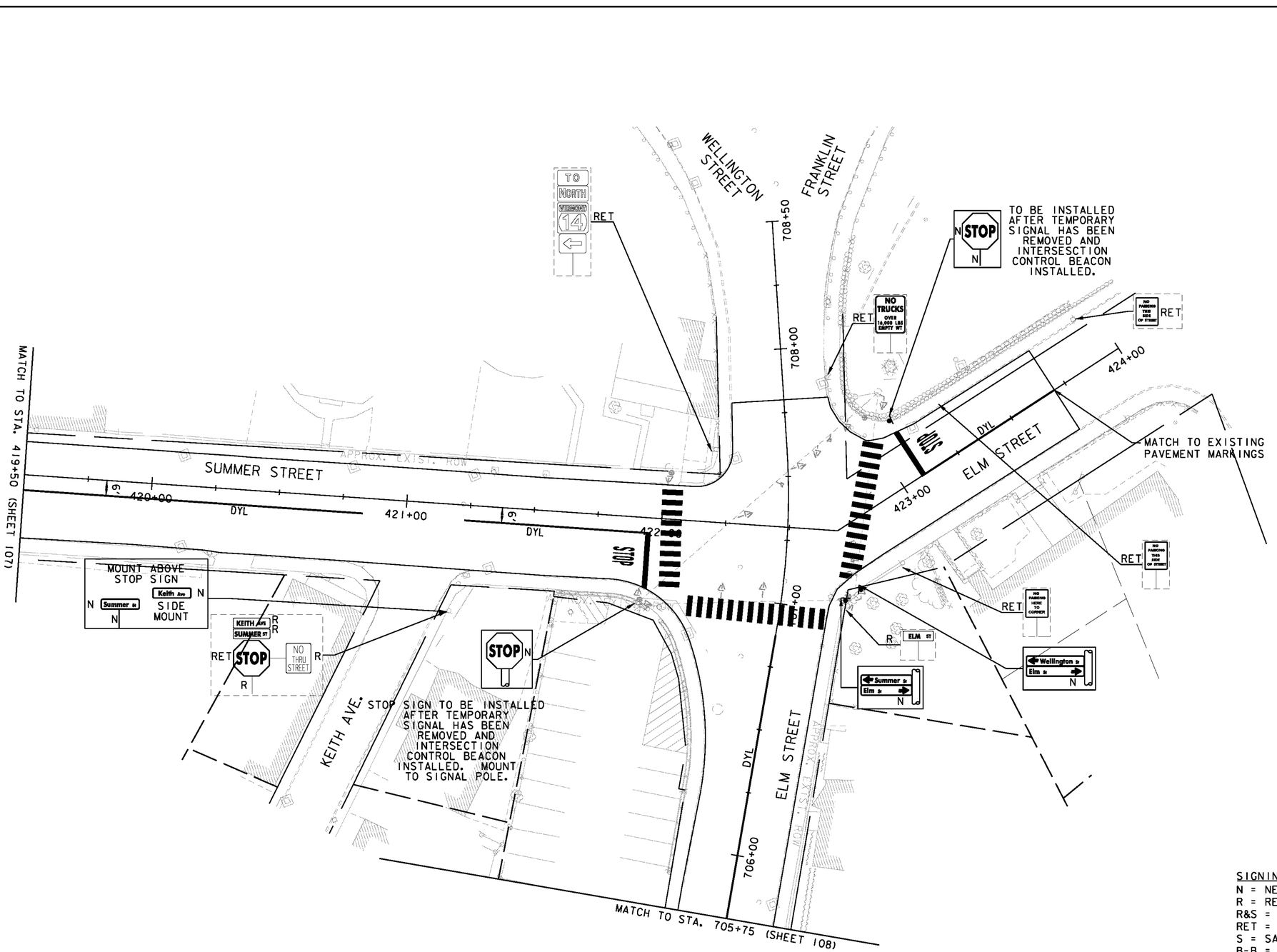
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FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-1(34) C/2

FILE NAME: z85b010bdr_spm_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
SIGNS AND PAVEMENT MARKING PLANS #8

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 103 OF 339



LETTER OR SYMBOL
SL STA 421+86 RT ("STOP")
SL STA 423+18 LT ("STOP")

4 INCH YELLOW LINE
SL STA 419+50 - 420+83 RT (DOUBLE)
SL STA 421+23 - 421+95 RT (DOUBLE)
SL STA 423+08 - 423+70 CL (DOUBLE)
SL STA 705+75 - 706+87 CL (DOUBLE)

24 INCH STOP BAR
SL STA 421+95 RT
SL STA 423+09 LT

CROSSWALK MARKING
SL STA 422+03 - 422+04 LT-RT
SL STA 422+64 - 422+99 RT-LT
SL STA 706+93 - 706+97 LT-RT

REMOVING SIGNS (TYPE A)
SL STA 421+20 RT (3 SIGNS)

NOTES:
1. ALL EXISTING SIGNS TO BE REMOVED SHALL BE DONE AS PART OF THE "CONSTRUCTION & DETOUR SIGNING PLANS" (SHEETS 172-188).

2. FOR SIGNAL EQUIPMENT DETAILS, SEE SHEET (171 & 194)

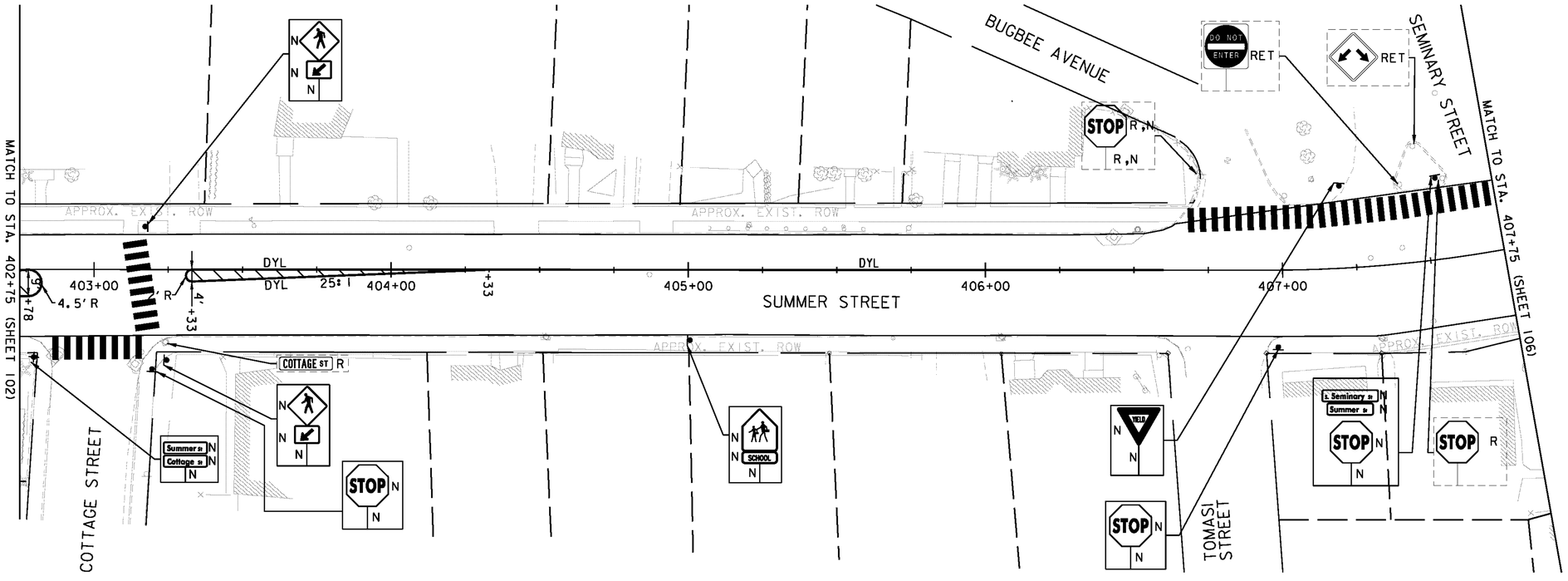
SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-I(34) C/2

FILE NAME: z85b010bdr_spm_C2 PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS DRAWN BY: D. PECK
DESIGNED BY: D. PECK CHECKED BY:
SIGNS AND PAVEMENT MARKING PLANS #9 SHEET 104 OF 339



CROSSWALK MARKING

SL STA 402+86 - 403+16 RT
SL STA 403+15 RT-LT
SL STA 406+68 - 407+75 LT

REMOVING SIGNS (TYPE A)

SL STA 403+25 RT
SL STA 406+71 LT
SL STA 407+55 LT

4 INCH YELLOW LINE

SL STA 402+75 - 402+83 RT (DOUBLE)
SL STA 403+31 - 404+33 RT (DOUBLE)
SL STA 403+33 - 406+60 CL (DOUBLE)

8 INCH YELLOW LINE

SL STA 403+33 - 404+25 RT (PAINTED ISLAND)

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND

SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

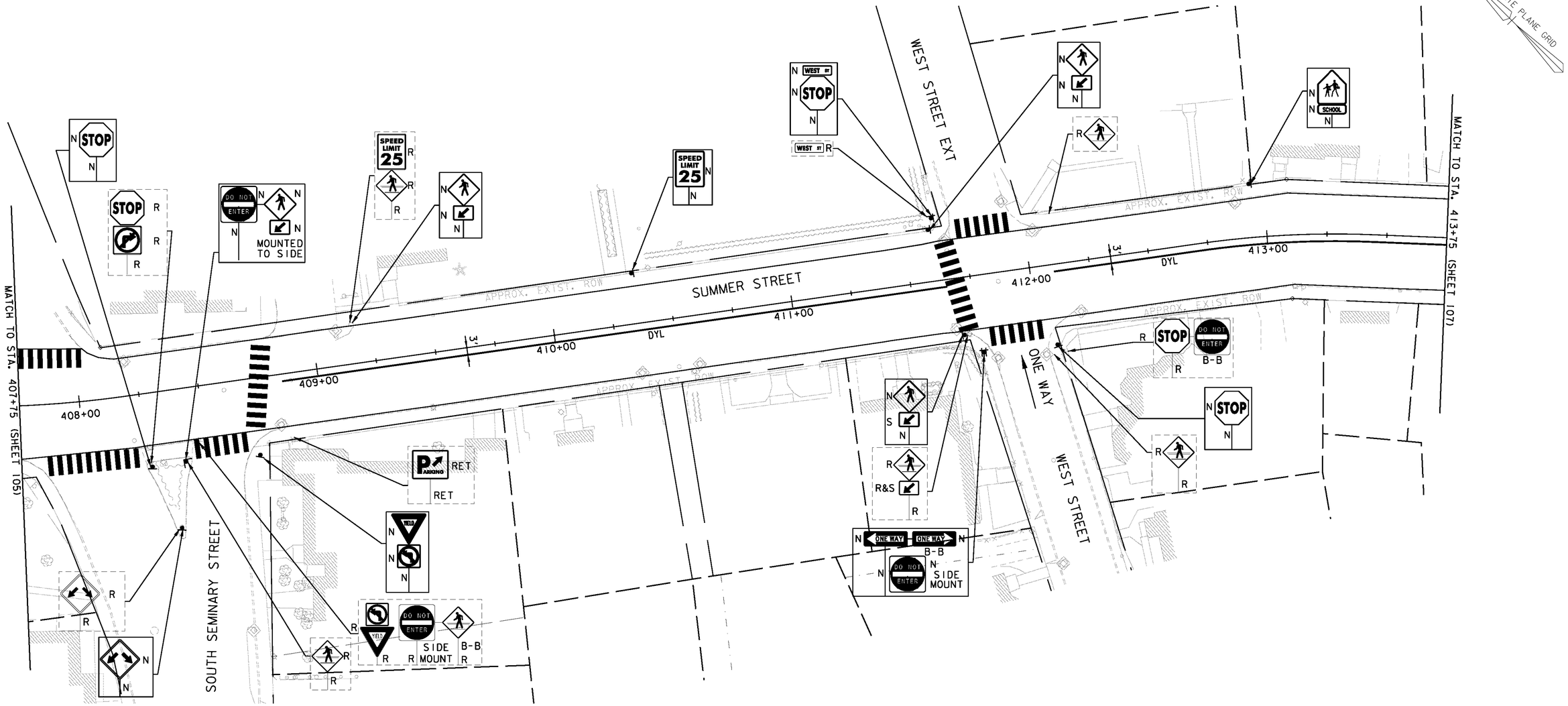
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FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-1(34) C/2

FILE NAME: z85b010bdr spm
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
SIGNS AND PAVEMENT MARKING PLANS #10

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 105 OF 339



ERECTING SALVAGED SIGNS
SL STA 411+65

REMOVING SIGNS (TYPE A)
SL STA 408+26 RT (2 SIGNS)
SL STA 408+35 RT
SL STA 408+42 RT
SL STA 408+47 RT (4 SIGNS)
SL STA 409+12 LT (2 SIGNS)
SL STA 411+61 LT
SL STA 411+66 RT (2 SIGNS)
SL STA 412+06 RT
SL STA 412+07 RT (2 SIGNS)
SL STA 412+11 LT

4 INCH YELLOW LINE
SL STA 408+85 - 411+65 RT (DOUBLE)
SL STA 412+10 - 413+75 RT (DOUBLE)

CROSSWALK MARKING
SL STA 407+75 - 408+02 LT
SL STA 407+85 - 408+21 RT
SL STA 408+45 - 408+67 RT
SL STA 408+76 RT-LT
SL STA 411+69 RT-LT
SL STA 411+72 - STA 411+94 LT
SL STA 411+80 - STA 412+02 RT

20 0 20 40
FEET

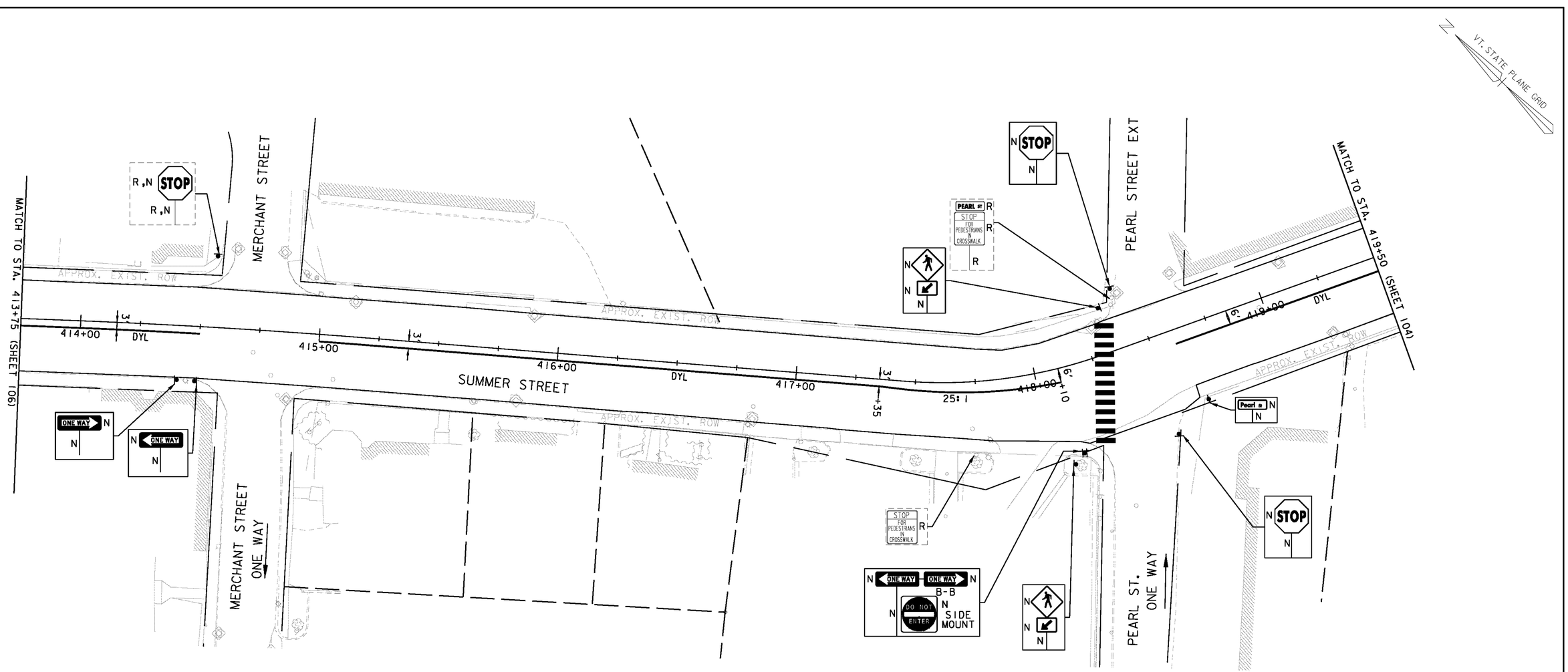
SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-1(34) C/2

FILE NAME: z85b0110bdr_spm_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SIGNS AND PAVEMENT MARKING PLANS #11
SHEET 106 OF 339



REMOVING SIGNS (TYPE A)

SL STA 414+55 LT
SL STA 417+72 RT
SL STA 418+38 LT (2 SIGNS)

4 INCH YELLOW LINE

SL STA 413+75 - 414+50 RT (DOUBLE)
SL STA 415+00 - 418+10 RT (DOUBLE)
SL STA 418+60 - 419+50 RT (DOUBLE)

CROSSWALK MARKING

SL STA 418+30 RT-LT

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND

SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

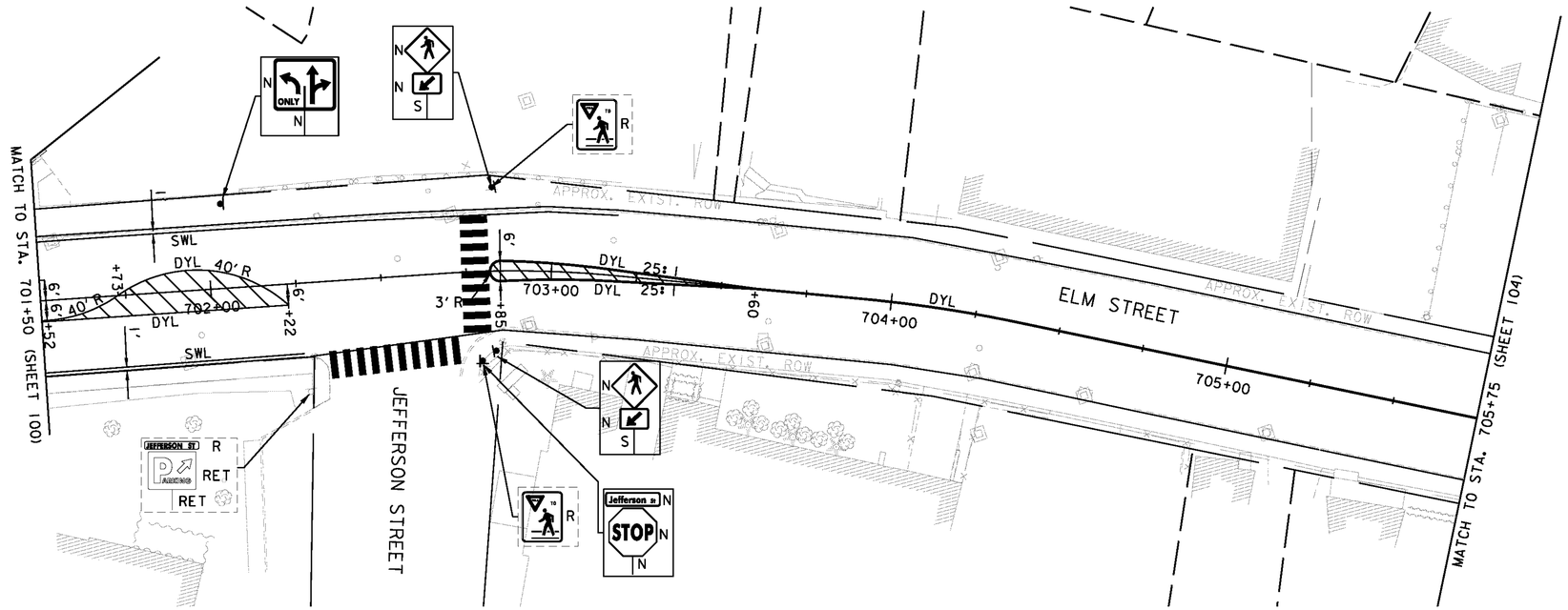
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FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-1(34) C/2

FILE NAME: z85b010bdr_spm_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:

SIGNS AND PAVEMENT MARKING PLANS #12
SHEET 107 OF 339



CROSSWALK MARKING
SL STA 702+35 - 702+72 RT
SL STA 702+78 RT-LT

REMOVING SIGNS (TYPE A)
SL STA 702+28 RT
SL STA 702+80 RT
SL STA 702+84 LT

4 INCH WHITE LINE
SL STA 701+50 - 703+18 LT
SL STA 701+50 - 702+28 RT
SL STA 705+65 - 705+75 LT (LOT STRIPING)

4 INCH YELLOW LINE
SL STA 701+50 - 702+22 RT (DOUBLE)
SL STA 701+52 - 702+22 RT (DOUBLE)
SL STA 702+82 - 703+60 LT (DOUBLE)
SL STA 702+82 - 703+60 RT (DOUBLE)
SL STA 703+60 - 705+75 CL (DOUBLE)

8 INCH YELLOW LINE
SL STA 701+52 - 702+22 (HATCHING)
SL STA 702+82 - 703+60 (HATCHING)

SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK
OH = OVERHEAD SIGN

STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

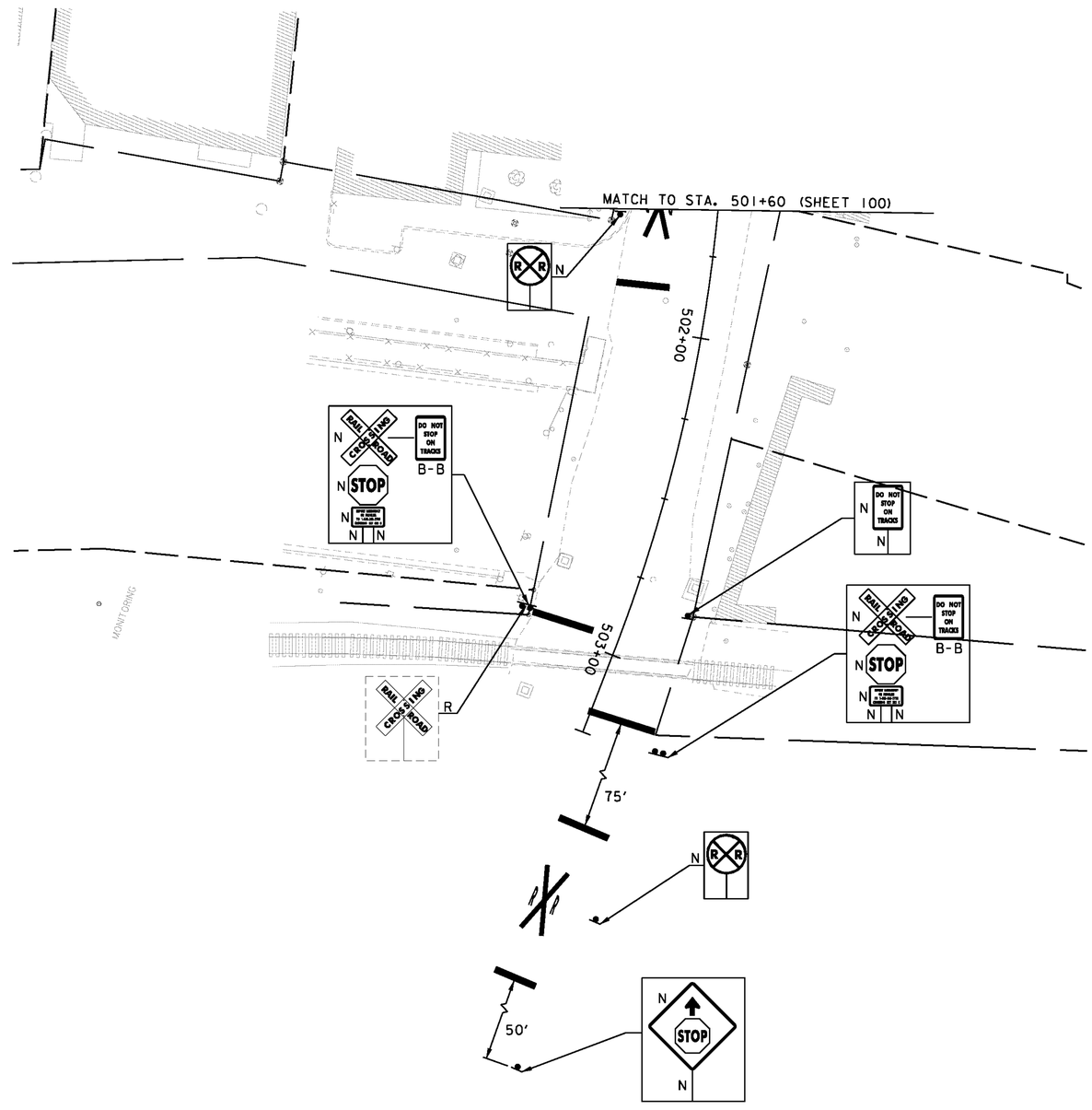
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FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC-F 026-1(34) C/2

FILE NAME: z85b010bdr_spm_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
SIGNS AND PAVEMENT MARKING PLANS #13

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 108 OF 339



REMOVING SIGNS (TYPE A)
SL STA 502+95 RT

24 INCH STOP BAR
SL STA 502+95 RT
SL STA 503+18 LT

RAILROAD CROSSING SYMBOL
PROSPECT STREET RIGHT
PROSPECT STREET LEFT

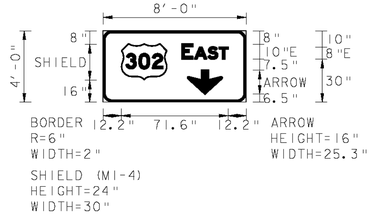
SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE

STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE

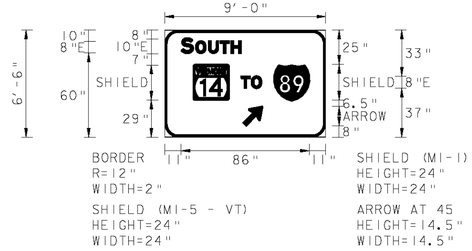
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FEET

VHB Vanasse Hangen Brustlin, Inc.

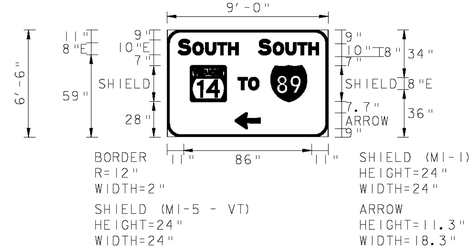
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC-F 026-I(34) C/2
FILE NAME: z85b010bdr_spm_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
SIGNS AND PAVEMENT MARKING PLANS #14	SHEET 109 OF 339



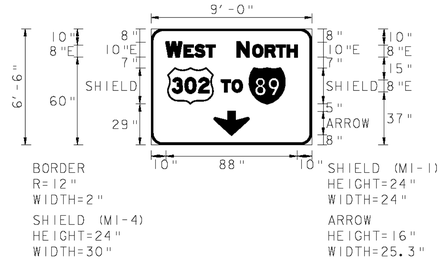
STA 137+71



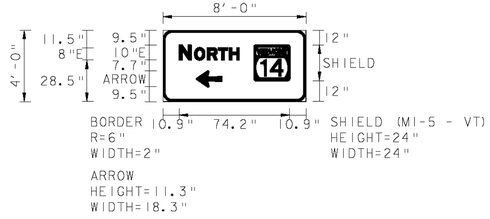
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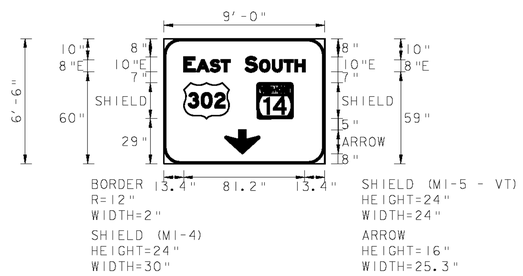
STA 141+97



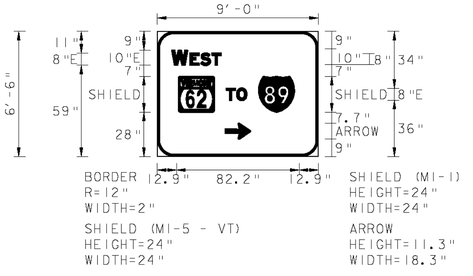
STA 141+97



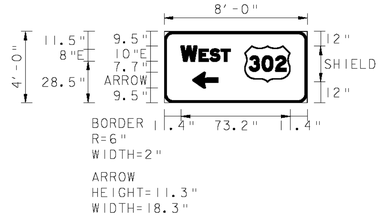
STA 112+13



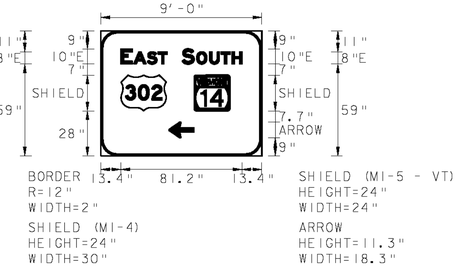
STA 112+13



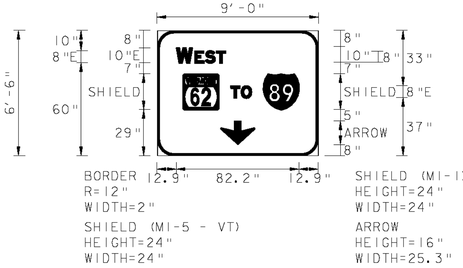
STA 112+13



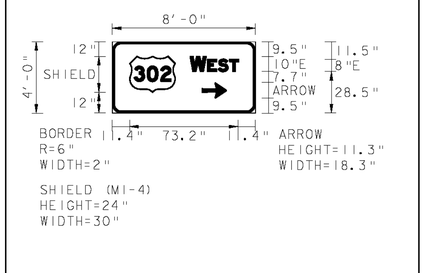
SL STA 11+49



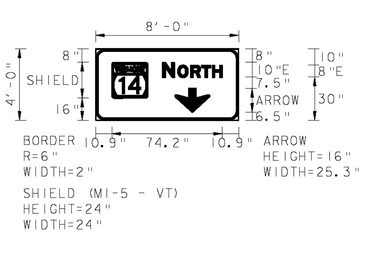
SL STA 22+32



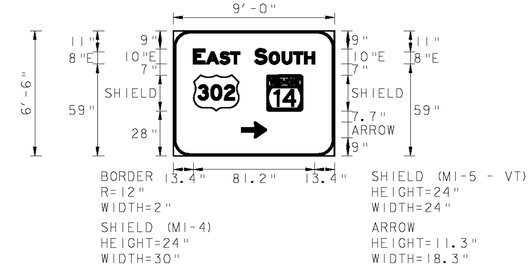
SL STA 22+32



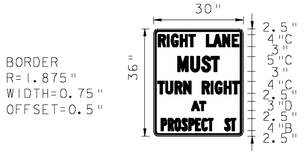
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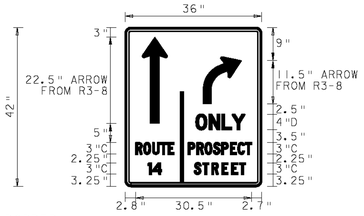
SL STA 11+49



SL STA 11+49



STA 138+30 RT



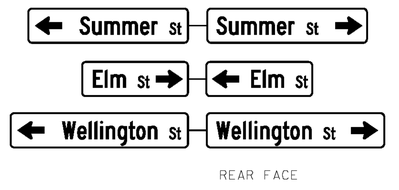
SL STA 601+30 RT



GMTA LOGO

DIMENSIONS AND LAYOUT FOR R7-107a ARE PER THE FHWA STANDARD HIGHWAY SIGNS BOOK.
GMTA LOGO SHALL BE OBTAINED FROM GREEN MOUNTAIN TRANSIT AUTHORITY.

VARIOUS LOCATIONS



REAR FACE

D3-1 (MOD1)
42"X12"

D3-1 (MOD2)
30"X12"

D3-1 (MOD3)
48"X12"

STREET NAME SIGNS WITH ARROWS (MODX) SHALL FOLLOW VTRANS STANDARD E-123 LAYOUT, WITH 6" DESTINATION ARROW, 7" LONG.
SIGNS SHALL BE DUAL FACED SUCH THAT ARROWS POINT IN SAME DIRECTION.

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85D010_GSLS_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
GUIDE SIGN LAYOUT SHEET

PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 110 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75	2.0	2.5 LB/FT 1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0	4.0	4.0 MOD LB/FT 1.3	1.7	1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0	3.5	4.0	5.0 LB/FT 7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
OPTION ITEMS																																											
NO. MAIN STREET																																												
111+50, LT		1	12	30	2.50						1				~~X~~ 13.5'					X																					SHS R7-107a	110	
112+13, RT		1	96	48		32.00																																			MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
112+13, RT		1	108	78		58.50																																			MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
112+13, RT		1	108	78		58.50																																			MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
112+13, RT		1	24	24	4.00																																				MOUNT TO NEW CANTILEVER POST	SHS D9-2		
		1	21	15	2.19																																					SHS M6-3 WOB		
112+96, RT		1	24	12	2.00																																					SHS M3-4 BOW		
		1	30	24	5.00						1				X 14.0'																										SHS M1-4		
~~114+85,~~ 115+40 LT		1	24	12	2.00																																					SHS M3-4 GOW		
		1	24	24	4.00						1							X + 19.5'			X																		#2	MOUNT SIGNS ON ONE #2 SIGN FRAME. SEE VAOT STD. E-123	M1-5 (VT)		E-136B
		1	21	15	2.19																																					SHS M6-1 GOW		
~~114+85,~~ 115+40 LT		1	24	12	2.00																																					SHS M3-1 GOW		
		1	24	24	4.00						1							X + 19.5'			X																		-	MOUNT SIGNS ON ONE #2 SIGN FRAME. SEE VAOT STD. E-123	M1-5 (VT)		E-136B
		1	21	15	2.19																																					SHS M6-1 GOW		
												FT	FT	FT	FT	FT ~~30~~ 27.5	FT ~~40~~ 39.0		EA 3	LB	LB	LB		LB	LB	LB	LB													
SUB TOTALS					SF 32.07	SF 149.00	EA.	SF				FT			FT ~~70~~ 66.5						LB			EA.	LB				EA.	EA.	LB										

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

BOW = BLACK LEGEND ON WHITE BACKGROUND - PLAQUE
GOW = GREEN LEGEND ON WHITE BACKGROUND - PLAQUE
WOB = WHITE LEGEND ON BLUE BACKGROUND - PLAQUE
FYG = BLACK LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND
SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

AVERAGE POST LENGTH = 15 FT
+ = ADD 5 FEET TO AVERAGE POST LENGTH

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
DESIGNED BY: MDS — CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET — SHEET 111 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	LB/FT 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
OPTION ITEMS																																				
NO. MAIN STREET																																				
115+40 ~~114+85,~~ LT	TO 89	1	24	12	2.00																											#2A		MOUNT SIGNS ON ONE #2A SIGN FRAME ABOVE #2 FRAME SEE VAOT STD E-123	SHS M4-5 WOB SHS M1-1 SHS M6-1 WOB		
		1	24	24	4.00																															
		1	21	15	2.19																															
115+40 ~~114+85,~~ LT	WEST 302	1	24	12	2.00																											-		MOUNT SIGNS ON ONE #2A SIGN FRAME ABOVE #2 FRAME SEE VAOT STD E-123	SHS M3-4 BOW SHS M1-5 (VT) SHS M6-3 BOW		E-136B
		1	30	24	4.00																															
		1	21	15	2.19																															
115+18, RT	EAST 302	1	24	12	2.00						1						X 14.5'		X													#1A		MOUNT SIGNS ON ONE #1A SIGN FRAME. SEE VAOT STD. E-123	SHS M3-2 BOW SHS M1-4		
		1	30	24	5.00																															
115+18, RT	SOUTH 14	1	24	12	2.00												14.0'		X													-		MOUNT SIGNS ON ONE #1A SIGN FRAME. SEE VAOT STD. E-123	SHS M3-3 GOW M1-5 (VT)		E-136B
		1	24	24	4.00																															
116+29, LT	ONLY ONLY	1	48	30	10.00						2						X 23.0'		X																VR-932		E-145B
115+96, RT		1	36	36	9.00						2						X 14.25' 14.25'		X X																SHS W4-2		
VT ROUTE 62																																				
10+63, CL	B-B	1	24	30	5.00						1						X 12.5'		X																MOUNT OM1-1 SIGNS BACK-TO-BACK	SHS R4-7 SHS OM1-1		
		2	18	18	4.50																															
10+75, LT	DO NOT ENTER	1	36	36	9.00						1						X 14.0'		X																SHS R5-1		
10+89, CL	R R	1	36	36	7.07						1						X 10.0'		~~X~~																NO NEW SLEEVE (USED EXISITING) SHS W10-1		
												FT	FT	FT	FT	FT	FT	EA	LB	LB	LB		LB	LB	LB	LB									
																~~90~~ 75.5	~~30~~ 41.0	4																	
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."																																				
SUB TOTALS					SF 73.95	SF	EA.	SF				FT			FT		~~120~~ 115.5			LB			EA.	LB				EA.	EA.	LB						

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GOW = GREEN LEGEND ON WHITE BACKGROUND - PLAQUE
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FYG = BLACK LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND
SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

AVERAGE POST LENGTH = 15 FT

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
DESIGNED BY: MDS — CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET — SHEET 112 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75 LB/FT 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0 LB/FT 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6 LB/FT	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																									
VT ROUTE 62																																			
10+89, RT	R R	1	36	36	7.07						1					X 14'			X														SHS W10-1		
11+49, CL	RIGHT OF WAY	1	42	30	8.75						1					X 13.5'			X														SHS R5-1a		
11+49, LT	RIGHT OF WAY	1	42	30	8.75																												MOUNT TO NEW CANTILEVER POST SHS R5-1a		
11+49, LT	WEST 302	1	96	48		32.00																											MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
11+49, LT	VERMONT 14 NORTH	1	96	48		32.00																											MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
11+49, LT	EAST SOUTH 302 VERMONT 14	1	108	78		58.50																											MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
MAPLE AVENUE																																			
20+40, RT ~~20+47, LT~~	BARRE HOPE CEMETERY → ITALIAN-AMERICAN MONU. ←						3																										SALVAGE SIGNS TO EXISTING SIGNAL POLE		
20+52, CL		1	24	30	5.00						1					X 12.5'			X														EXISTING SIGNS: REMOVE & RESET WITH NEW R4-7 & OMI-1 SHS R4-7 SHS OMI-1		
		1	18	18	2.25																														
~~20+40, RT~~	~~BARRE~~						~~2~~		NOT INSTALLED																								SALVAGE SIGNS TO EXISTING SIGNAL POLE		
20+91, CL		1	24	30	5.00						1					X 12.5'			X														EXISTING SIGNS: REMOVE & RESET WITH NEW R4-7 & OMI-1 SHS R4-7 SHS OMI-1		
		1	18	18	2.25																														
												FT	FT	FT	FT	FT 30 27.5	FT 30 25.0	EA 3	LB	LB	LB		LB	LB	LB	LB								
SUB TOTALS		SF 39.07	SF 122.50	EA. 5	SF							FT			FT	FT ~~60~~ 52.5			LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

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SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 | PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: CMD
DESIGNED BY: MDS | CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET | SHEET 113 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAMED	REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																										
MAPLE AVENUE																																				
20+78, RT	NORTH / VERMONT / 14	1	24	12	2.00						1					X 14.0'			X															SHS M3-1 GOW M1-5 (VT)		E-136B
		1	24	24	4.00																															
21+65 ~~21+30~~, RT	SPEED LIMIT 25 / NO PARKING ANY TIME	1	24	30	5.00		1				1					X 11.0'			—															SHS R2-1		
21+60, LT	H	1	24	24	4.00						1					X 14.0'			X															"NO PARKING ANY TIME SIGN" REMOVED AND SALVAGED ONTO LONGER POST("SPPED LIMIT 25 SIGN"). KEPT EXISTING ANCHOR. SHS D9-2 SHS M6-3 WOB		
		1	21	15	2.19																															
COTTAGE STREET																																				
30+35 ~~21+57~~, LT	Cottage st / STOP	1	36	12	3.00						1						X 14.0'		X															SHS D3-1 SHS R1-1 SHS R3-2		
		1	36	36	9.00																															
		1	24	24	4.00																															
												FT	FT	FT	FT	~~45~~ 39.0 FT	~~15~~ 14.0 FT		EA 3	LB	LB	LB		LB	LB	LB	LB									
	SUB TOTALS				SF 33.19	SF	EA. 1	SF				FT			FT	~~60~~ 53.0 FT				LB			EA.	LB				EA.	EA.	LB						

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FYG = BLACK LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND
SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 | PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: CMD
DESIGNED BY: MDS | CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET | SHEET 114 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) LB/FT FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																										
NO. MAIN STREET																																				
116+98, LT	END	1	30	12	2.50						1						X		X															SHS INTERIM R3-9dP BOW		
	CENTER LANE ONLY	1	24	36	6.00												15.33'																	SHS R3-9b		
117+06, RT	SPEED LIMIT 25	1	24	30	5.00						1						X																	SHS R2-1		
	BEGIN	1	30	12	2.50																													SHS INTERIM R3-9cP BOW		
	CENTER LANE ONLY	1	24	36	6.00												16.5'																	SHS R3-9b		
117+94, LT	WEST VERMONT 62	1	24	12	2.00						1						19.0'		X														*2	SHS W3-4 GOW		E-136B
		1	24	24	4.00												X																	MOUNT SIGNS ON ONE *2 SIGN FRAME. SEE VAOT STD. E-123 MI-5 (VT)		
		1	21	15	2.19												+ 19.0'																	SHS W5-1 GOW		
117+94, LT	NORTH VERMONT 14	1	24	12	2.00						1						SEE ABOVE		X														-	SHS W3-1 GOW		E-136B
		1	24	24	4.00												X																	MOUNT SIGNS ON ONE *2 SIGN FRAME. SEE VAOT STD. E-123 MI-5 (VT)		
		1	21	15	2.19												+																	SHS W5-1 GOW		
117+94, LT	TO VERMONT 89	1	24	12	2.00																													SHS M4-5 WOB		
		1	24	24	4.00																												*2A	MOUNT SIGNS ON ONE *2A SIGN FRAME ABOVE *2 SIGN FRAME, SEE VAOT STA E-123 SHS MI-1		
		1	21	15	2.19																													SHS M5-1 WOB		
117+94, LT	WEST VERMONT 302	1	24	23	2.00																													SHS W3-4 BOW		
		1	30	24	5.00																												-	MOUNT SIGNS ON ONE *2A SIGN FRAME ABOVE *2 SIGN FRAME, SEE VAOT STA E-123 SHS MI-4		
		1	21	15	2.19																													SHS M6-3 BOW		
119+71, LT	H	1	24	24	4.00						1						14.0' - F.M. BY M.W.H. 10/31/12 (NOT ON ANY F.R.L. REPORTS)																	*2	MOUNT SIGNS ON ONE *2 SIGN FRAME. SEE VAOT STD. E-123 SHS D9-2		
		1	21	15	2.19												X 15.17'		X															SHS M5-1 WOB		
119+71, LT	JCT WEST VERMONT 62	1	21	15	2.19						1						SEE ABOVE																-	SHS M2-1 GOW		
		1	24	12	2.00												X		X															MOUNT SIGNS ON ONE *2 SIGN FRAME. SEE VAOT STD. E-123 SHS M3-4 GOW		E-136B
		1	24	24	4.00																													MI-5 (VT)		
												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB									
																30	70 29.17 69.83		5																	
	SUB TOTALS	SF 70.14	SF	EA.	SF		FT				FT 100 99.0				LB			EA.		LB				EA.	EA.	LB									

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

AVERAGE POST LENGTH = 15 FT
+ = ADD 5 FEET TO AVERAGE POST LENGTH

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SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 | PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: CMD
DESIGNED BY: MDS | CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET | SHEET 115 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75 LB/FT 1.88	2.0 LB/FT 2.42	2.5 LB/FT 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0 LB/FT 1.3	4.0 LB/FT 1.7	4.0 MOD LB/FT 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 LB/FT 7.6	3.5 LB/FT 9.0	4.0 LB/FT 10.8	5.0 LB/FT 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAMED	REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																												
120+05, RT	END / CENTER LANE ONLY	1	30	12	2.50						1						X 15.0'																		SHS INTERIM R3-9dP BOW		
		1	24	36	6.00																														SHS R3-9b		
120+65 ~~120+58~~, LT	BEGIN / CENTER LANE ONLY	1	30	12	2.50		2				1						X 15.0'		X																SHS INTERIM R3-9cP BOW DUE TO ORIGINAL LOCATION OF SIGN BEING OBSCURED BY STREET LIGHT, SIGN WAS REMOVED AND RESET AT NEW LOCATION PER VAOT. SHS R3-9b		
		1	24	36	6.00																																
121+00, RT	P PARKING	1	30	24	5.00						1					X 12.83'			X																SHS D4-1L		
121+83, RT	NO TRUCKS	1	12	30	2.50						1					X 13.42'			X																SHS R7-107a	110	
122+48, RT		1	24	24	4.00						1					X 14.42'			X																FYG SHS W11-2		
		1	24	12	2.00																														FYG SHS W16-7pL		
122+50, LT		1	24	24	4.00						1					X 14.5'			X																FYG SHS W11-2		
		1	24	12	2.00																														FYG SHS W16-7pL		
S. SEMINARY ST.																																					
40+35, LT	S. Seminary / STOP	1	42	12	3.50						1						X 14.17'		X																SHS D3-1 SHS R1-1		
		1	36	36	9.00																																
												FT	FT	FT	FT	FT 60 55.17'	FT 45 44.17'	EA 6		LB	LB	LB		LB	LB	LB	LB									
	SUB TOTALS				SF 49.00	SF	EA. 2	SF				FT				~~105~~ 99.34				LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

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VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
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TRAFFIC SIGN SUMMARY SHEET — SHEET 116 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75	2.0	2.5	LB/FT 1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0	4.0	4.0 MOD LB/FT 1.3	1.7	1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0	3.5	4.0	5.0 LB/FT 7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
NO. MAIN STREET																																										
123+78, RT	MAY USE FULL LANE	1	30	30	6.25						1					X 13.5'					X																				SHS INTERIM R4-11		
123+81, LT	BUS ZONE R	1	12	30	2.50		1				1					X 13.25'					X																				SHS R7-107a	110	
124+83, LT	P PARKING	1	30	24	5.00						1					X 12.75'					X																				SHS D4-1		
125+34, RT		1	24	24	4.00						1					X 14.5'					X																				FYG SHS W11-2		
		1	24	12	2.00																																			FYG SHS W16-7pL		
125+52, LT		1	24	24	4.00						1					X 14.5'					X																				FYG SHS W11-2		
		1	24	12	2.00																																			FYG SHS W16-7pL		
126+59, RT	P PARKING	1	30	24	5.00						1					X 12.75'					X																				SHS D4-1		
126+78, RT		1	24	24	4.00						1					X 14.5'					X																				FYG SHS W11-2		
		1	24	12	2.00																																			FYG SHS W16-7pL		
126+92, RT	B-B Creamery ONE WAY ONE WAY DO NOT ENTER SIDE MOUNT	1	42	12	3.50						1					X 15.25'					X																				SHS D3-1		
		1	36	12	3.00																																			SET R6-1R & R6-1L BACK TO BACK	SHS R6-1L		
		1	36	12	3.00																																				SHS R6-1R		
		1	36	36	9.00																																			SET R5-1 FACING N. MAIN ST	SHS R5-1		
126+98, LT		1	24	24	4.00						1					X 14.5'					X																				FYG SHS W11-2		
		1	24	12	2.00																																			FYG SHS W16-7pL		
127+41, LT	West St ONE WAY ONE WAY B-B	1	24	12	2.00						1					X 12.25'					X																				SHS D3-1		
		1	36	12	3.00																																			SET R6-1R & R6-1L BACK TO BACK	SHS R6-1L		
		1	36	12	3.00																																				SHS R6-1R		
128+33, LT	BUS ZONE R	1	12	30	2.50						1					X 13.5'					X																				SHS R7-107a	110	
												FT	FT	FT	FT	FT	FT				EA	LB	LB	LB		LB	LB	LB	LB													
																+50	+15				11																					
																136.0	15.25																									
SUB TOTALS		SF 71.75	SF	EA.	SF		FT			FT											LB			EA.		LB			EA.	EA.	LB										
																+65																									
																151.25																									

AVERAGE POST LENGTH = 15 FT

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BOW = BLACK LEGEND ON WHITE BACKGROUND - PLAQUE
GOW = GREEN LEGEND ON WHITE BACKGROUND - PLAQUE
WOB = WHITE LEGEND ON BLUE BACKGROUND - PLAQUE
FYG = BLACK LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND
SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 | PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: CMD
DESIGNED BY: MDS | CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET | SHEET 117 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75	2.0	2.5	LB/FT 1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0	4.0	4.0 MOD	LB/FT 1.3	1.7	1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0	3.5	4.0	5.0	LB/FT 7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
OPTION ITEMS																																													
MERCHANT STREET																																													
128+48, RT		1	12	30	2.50						1					X 13.5'				X																					SHS R7-107a	110	
128+92, RT		1	24	24	4.00						1					X 14.5'				X																					FYG SHS W11-2		
		1	24	12	2.00																																			FYG SHS W16-7pL		
128+95 LT	B-B Merchant st ONE WAY ONE WAY DO NOT ENTER SIDE MOUNT	1	42	12	3.50						1									X 15.25'		X																		SET R6-1R & R6-1L BACK TO BACK SHS D3-1 SHS R6-1L SHS R6-1R		
		1	36	12	3.00																																			SET R5-1 FACING N. MAIN ST SHS R5-1		
		1	36	12	3.00																																						
		1	36	36	9.00																																						
129+12, LT		1	24	24	4.00						1					X 14.5'				X																					FYG SHS W11-2		
		1	24	12	2.00																																			FYG SHS W16-7pL		
MERCHANT STREET																																													
70+37, LT	STOP	1	36	36	9.00						1									X 13.75'		X																		SHS R1-1		
CREAMERY COURT																																												
300+35, LT	STOP	1	36	36	9.00						1									X 13.75'		X																		SHS R1-1		
GRANITE STREET																																													
50+35, LT	Granite st STOP	1	36	12	3.00						1									X 13.75'		X																		SHS D3-1 SHS R1-1		
		1	36	36	9.00																																						
												FT	FT	FT	FT	FT 45 42.5	FT 60 56.5	EA 7	LB	LB	LB			LB	LB	LB	LB																
SUB TOTALS					SF 63.00	SF	EA.	SF				FT			FT ~~105~~ 99.0			LB			EA.	LB																	EA.	EA.	LB			

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SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 | PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: CMD
DESIGNED BY: MDS | CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET | SHEET 118 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75	2.0	2.5	LB/FT 1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0	4.0	4.0 MOD	LB/FT 1.3	1.7	1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0	3.5	4.0	5.0	LB/FT 7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
NO. MAIN STREET											OPTION ITEMS																																							
130+00, RT	Depot Sq	1	24	12	2.00						1					X 11.0'					X																							SHS D3-1		
130+72, RT	BARRE CITY HALL AUDITORIUM						2																																				EXISTING SIGNS RELOCATED TO STA 130+00		
130+74, RT		1	24	24	4.00						1					X 15.0'					X																							FYG SHS W11-2		
		1	24	12	2.00																																							FYG SHS W16-7pL		
130+93, LT		1	24	24	4.00						1					X 15.0'					X																							FYG SHS W11-2		
		1	24	12	2.00																																							FYG SHS W16-7pL		
132+68, LT	Pearl St ONE WAY ONE WAY P ASSIGNED B-B	1	30	12	2.50						2					14.75'					X																							SHS D3-1		
		1	36	12	3.00																																							SHS R6-1L		
		1	36	12	3.00											X																											SET R6-1R & R6-1L BACK TO BACK SHS R6-1R		
		1	30	30	6.25											14.5'																											SET R3-2 & D4-1 BACK TO BACK SHS R3-2		
		1	30	24	5.00																																							SHS D4-1		
132+70, RT		1	24	24	4.00						1					X 15.0'					X																							FYG SHS W11-2		
		1	24	12	2.00																																							FYG SHS W16-7pL		
132+90, LT		1	24	24	4.00						1					X 15.0'					X																							FYG SHS W11-2		
		1	24	12	2.00																																							FYG SHS W16-7pL		
134+52, LT	CONTROL	1	12	30	2.50						1					X 13.25'					X																							SHS R7-107a	110	
135+20, RT		1	24	24	4.00						1					X 15.0'					X																							FYG SHS W11-2		
		1	24	12	2.00																																							FYG SHS W16-7pL		
135+20, LT	Keith Ave ONE WAY ONE WAY B-B	1	30	12	2.50						1						X 14.75'				X																							SHS D3-1		
		1	36	12	3.00																																							SHS R6-1L		
		1	36	12	3.00																																							SET R6-1R & R6-1L BACK TO BACK SHS R6-1R		
		1	30	30	6.25																																							SHS R3-2		
135+40, LT		1	24	24	4.00						1					X 15.0'					X																							FYG SHS W11-2		
		1	24	12	2.00																																							FYG SHS W16-7pL		
DEPOT SQUARE																																														
80+41, LT	STOP	1	36	36	9.00						1						X				X																							SHS R1-1		
												FT	FT	FT	FT	FT	FT				EA	LB	LB	LB					LB	LB	LB	LB												
																~~150~~ 143.50	~~30~~ 28.5				12																								
SUB TOTALS			SF 84.00	SF	EA. 2	SF			FT						FT ~~180~~ 172.0							LB			EA.	LB				EA.	EA.	LB												

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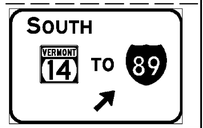
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 | PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: CMD
DESIGNED BY: MDS | CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET | SHEET 119 OF 339

VHB Vanasse Hangen Brustlin, Inc.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																									
NO. MAIN STREET																																			
136+18, RT		1	12	30	2.50						1					X 13.5'			X														SHS R7-107a	110	
136+87, RT		1 1	30 24	30 12	6.25 2.00						1					X 15.0'			X														FYG SHS W11-2 FYG SHS W16-7pL		
137+06, LT		1 1	30 24	30 12	6.25 2.00						1					X 15.0'			X														FYG SHS W11-2 FYG SHS W16-7pL		
137+71		1	96	48		32.00																											MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
137+71		1	108	78		58.50																											MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
138+27, LT		1 1	24 30	12 24	2.00 5.00						~~1~~ 2					14.0' X 14.0'			X													#1A	MOUNT SIGNS ON ONE #1A SIGN FRAME SEE VAOT STD E-123 SHS W3-4 BOW SHS W1-4		
		1 1	24 24	12 24	2.00 4.00																										-	MOUNT SIGNS ON ONE #1 SIGN FRAME SEE VAOT STD E-123 SHS W3-1 GOW W1-5 (VT)		E-136B
138+30, RT		1	30	36	7.50						1					X 13.75'			X														SHS R3-7R (MOD)	110	
138+62, RT		1 1 1	24 24 24	12 24 18	2.00 4.00 3.00						1						X 15.0'																SHS M3-2 GOW W1-5 (VT) SHS INTERIM W5-4		E-136B
138+73, RT							5																											SALVAGE EXISTING SIGNS ONTO EXISTING (NEW) SIGNAL POLE		
138+38, RT		1 1	24 18	24 18	4.00 2.25						1					X 12.75'																	SHS W12-1 SHS OM1-1		
												FT	FT	FT	FT	FT ~~90~~ 98	FT 15	EA 5	LB	LB	LB		LB	LB	LB	LB	EA.	LB	EA.	EA.	LB			
SUB TOTALS					SF 54.75	SF 90.50	EA. 5	SF				FT				FT ~~105~~ 113				LB			EA.	LB				EA.	LB	EA.	EA.	LB			

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VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
DESIGNED BY: MDS — CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET — SHEET 120 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75 LB/FT 1.88	2.0 LB/FT 2.42	2.5 LB/FT 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0 LB/FT 1.3	4.0 LB/FT 1.7	4.0 MOD LB/FT 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 LB/FT 7.6	3.5 LB/FT 9.0	4.0 LB/FT 10.8	5.0 LB/FT 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																									
NO. MAIN STREET																																			
138+80, RT	SOUTH VERMONT 14	1	24	12	2.00						1				14.75'																	#2	MOUNT SIGNS ON ONE #2 SIGN FRAME. SEE VAOT STD. E-123	SHS M3-3 GOW MI-5 (VT) SHS M6-1 GOW		E-136B
		1	24	24	4.00										X																				
		1	21	15	2.19										14.75'																				
138+80, RT	TO 89	1	24	12	2.00						1				SEE ABOVE																	-	MOUNT SIGNS ON ONE #2 SIGN FRAME. SEE VAOT STD. E-123	SHS M4-5 WOB SHS MI-1 SHS M6-1 WOB		
		1	24	24	4.00										X																				
		1	21	15	2.19																															
NO. MAIN STREET																																			
600+47, RT	BARRE B-B	1	24	30	5.00			2			1				X				X														EXISTING SIGNS REMOVED & RESET WITH R4-7 AT STA 600+47, RT (FROM STA 601+20)	SHS R4-7 SHS OMI-1		
		1	18	18	2.25										12.75'																				
600+74, RT	WEST 302	1	24	12	2.00						1 ~~2~~				15.25'																	#2A	MOUNT SIGNS ON ONE #2A SIGN FRAME. SEE VAOT STD. E-123	SHS M3-4 BOW SHS MI-4 SHS M6-1 BOW		
		1	30	24	5.00										X				X																
		1	21	15	2.19										15.75'																				
600+74, RT	NORTH VERMONT 14	1	24	12	2.00						1 ~~2~~				SEE ABOVE																	-	MOUNT SIGNS ON ONE #2A SIGN FRAME. SEE VAOT STD. E-123	SHS M3-1 GOW MI-5 (VT) SHS M6-1 GOW		E-136B
		1	24	24	4.00										X				X																
		1	21	15	2.19																															
SO. MAIN STREET																																			
601+20, RT		1	24	30	5.00						1				X				X																
		1	18	18	2.25										12.75'																				
601+30, RT	ONLY ROUTE 14 PROSPECT STREET	1	~~36~~ 30	~~42~~ 30	~~10.50~~ 6.25						~~2~~ 1				X 13.25'				X														SIGN SIZE WAS REDUCED TO 30" X 30" WITH 1 POST, OKAYED BY D. HALE, R.E. 10/18/2012 VR-921 MOD)	110	E-145A	
												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB								
															~~120~~ 99.25				6																	
		SUB TOTALS	SF	~~58.76~~ 34.5	SF	EA.	2	SF				FT			FT					LB			EA.	LB				EA.	EA.	LB					
															~~120~~ 99.25																				

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VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
DESIGNED BY: MDS — CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET — SHEET 121 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST SALVAGE RETAIN	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAMES REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																										
SO. MAIN STREET																																				
601+67, LT	ONLY	1	36	30	7.50					1					X 13.25'			X														VR-922		E-145A
602+38, RT	BARRE OPERA HOUSE						2			1					X 11.0'			X														EXISTING SIGNS REMOVED & RESET ON NEW POST		
CHURCH STREET																																				
800+22, LT	ONE WAY / ONE WAY	1 1	36 36	12 12	3.00 3.00					1					X 12.0'			X														SET R6-1R & R6-1L BACK TO BACK	SHS R6-1L SHS R6-1R		
800+22 ~~800+38~~, LT	TO EAST 302 →	1 1 1 1	24 24 30 21	12 12 24 15	2.00 2.00 5.00 2.19		2															DUE TO THE SUBSTANTIAL NUMBER OF SIGNS FOR THIS STATION, THE SIGNS WOULD NOT FIT ON THE SIGNAL POLE. THE SIGNS WERE MOVED TO THE POST AT THE ABOVE STATION, STA 800+22, LT.									~~MOUNT SIGNS TO EXISTING SIGNAL POLE~~	SHS M4-5 BOW SHS M3-3 BOW SHS M1-4 SHS M6-1 BOW		
											FT	FT	FT	FT	~~45~~ 53.5	FT		EA 3	LB	LB	LB		LB	LB	LB	LB								
		SUB TOTALS			SF 24.69	SF	EA. ~~2~~ 4	SF			FT			FT	~~45~~ 53.5				LB			EA.	LB				EA.	EA.	LB						

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STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75 LB/FT 1.88	2.0 LB/FT 2.42	2.5 LB/FT 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0 LB/FT 1.3	4.0 LB/FT 1.7	4.0 MOD LB/FT 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 LB/FT 7.6	3.5 LB/FT 9.0	4.0 LB/FT 10.8	5.0 LB/FT 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAMES REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																									
WASHINGTON ST.																																			
140+28, RT	EAST 302	1	24	12	2.00						1					X 14.0'																	SHS M3-2 BOW		
		1	30	24	5.00																												SHS MI-4		
141+97, LT	ONLY ONLY	1	48	30	10.00																												MOUNT SIGN TO PROPOSED OVERHEAD SIGN SUPPORT VR-932		E-145B
141+97, LT	SOUTH SOUTH VERMONT 14 TO 89	1	108	78		58.50																											MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
141+97, LT	WEST NORTH 302 TO 89	1	108	78		58.50																											MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE TYPE IX SHEETING	110	
142+80, LT	MAY USE FULL LANE	1	30	30	6.25						1					X 13.33'			X															
143+47, LT	JCT VERMONT 14	1	21	15	2.19						1					X 14.25'			X														SHS M2-1 GOW		
		1	24	24	4.00																												MI-5 (VT)		E-136B
143+48, RT	EAST 302 DO NOT ENTER B-B	1	24	12	2.00						1						X 14.0'		X														SHS M3-2 BOW		
		1	30	24	5.00																												SHS MI-4		
		1	30	30	6.25																												SHS R5-1		
VT ROUTE 62																																			
12+02, LT	ONLY	1	36	30	7.50						1					X 13.5'																	VR-922		E-145A
		1	36	30	7.50																														
12+36, CL	RAIL ROAD CROSS BUCK	1	48	9	6.00						1					X 13.25'			X														CROSSBUCKS SHALL INCLUDE REFLCTIVE STRIPS ON BACK AND ON POST (E) SHS R15-1		MUTCD FIGURE 8B-2
			48	9																															
12+36, RT	RAIL ROAD CROSS BUCK	1	48	9	6.00						2					16.75'																	CROSSBUCKS SHALL INCLUDE REFLCTIVE STRIPS ON BACK AND ON POST (E) SHS R15-1		MUTCD FIGURE 8B-2
			48	9																															
	YIELD	1	•	•	3.18											X 17.25'																	• SIZE = 36"x36"x36" SHS R1-2		
	REPORT EMERGENCY OR PROBLEM TO 1-800-352-2720 CHOOSING 527 345 E	1	15	9	0.94																												SHS INTERIM I-13		
												FT	FT	FT	FT	FT ~~105~~ 103.33	FT ~~15~~ 14.0	EA 3	LB	LB	LB		LB	LB	LB	LB							
	SUB TOTALS				SF ~~66.31~~ 73.81	SF 117.00	EA.	SF				FT			FT		~~+20~~ 116.33		LB			EA.	LB				EA.	EA.	LB				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

AVERAGE POST LENGTH = 15 FT

BOW = BLACK LEGEND ON WHITE BACKGROUND - PLAQUE
GOW = GREEN LEGEND ON WHITE BACKGROUND - PLAQUE
WOB = WHITE LEGEND ON BLUE BACKGROUND - PLAQUE
FYG = BLACK LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND
SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
DESIGNED BY: MDS — CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET — SHEET 123 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75	2.0	2.5	LB/FT 1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0	4.0	4.0 MOD	LB/FT 1.3	1.7	1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0	3.5	4.0	5.0	LB/FT 7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAMED	REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												OPTION ITEMS																																			
VT ROUTE 62																																														
12+95, LT	RAIL ROAD CROSSING; YIELD; REPORT EMERGENCY OR PROBLEM TO 1-800-345-7233 CROSSING 027 310 E	1	48	9	6.00						2				14.75'																												E CROSSBUCKS SHALL INCLUDE REFLECTIVE STRIPS ON BACK AND ON POST SHS R15-1		MUTCD FIGURE 8B-2
		1	48	9																																									
		1	*	*	3.18										X																													* SIZE = 36"x36"x36" SHS R1-2		
		1	15	9	0.94										14.5'																													SHS INTERIM I-13		
13+00, CL	RAIL ROAD CROSSING	1	48	9	6.00						1				X							X																					E CROSSBUCKS SHALL INCLUDE REFLECTIVE STRIPS ON BACK AND ON POST SHS R15-1		MUTCD FIGURE 8B-2
		1	48	9											13.25'																															
14+50, LT		1	30	30	6.25						1				X																													SHS W3-2		
															14.5'																															
14+50, RT	WEST 62	1	24	12	2.00						1				X																													SHS M3-4 GOW		E-136B
		1	24	24	4.00										13.5'																												MI-5 (VT)		
MAPLE AVENUE																																													
22+32, LT	EAST SOUTH 302 14	1	108	78		58.50																																					MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE	110	
22+32, LT	WEST 62 TO 89	1	108	78		58.50																																					MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE	110	
22+32, LT	302 WEST	1	96	48		32.00																																					MOUNT SIGNS TO PROPOSED OVERHEAD STRUCTURE	110	
22+32, LT	PROHIBITED OVERNIGHT PARKING 1 AM - 6 AM						1																																							
402+48, LT	Short St	1	24	12	2.00						~~1~~				~~X~~							~~X~~																							THIS SIGN WAS INSTALLED ABOVE THE TRAFFIC SIGNAL SIGN AT THE SAME LOCATION. NO NEW POST NEEDED. SHS D3-1		
													FT	FT	FT	FT	~~90~~ 70.5	FT	EA 2	LB	LB	LB		LB	LB	LB	LB																	
					SUB TOTALS		SF 30.37	SF 149.00	EA. 1	SF			FT			FT	~~90~~ 70.5			LB			EA.	LB						EA.	EA.	LB												

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FYG = BLACK LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND
SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 | PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: CMD
DESIGNED BY: MDS | CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET | SHEET 124 OF 339

VHB Vanasse Hangen Brustlin, Inc.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
OPTION ITEMS																																						
SUMMER STREET																																						
SEE NOTES ~~418+14, RT~~	B-B ONE WAY ONE WAY DO NOT ENTER	1 1 1	36 36 36	12 12 36	~~3.00~~ ~~3.00~~ ~~9.00~~						1						X		X															SET R6-1R & R6-1L BAK TO BACK WITH R5-1 FACING SUMMER ST SEE NEXT PAGE - REPEATED ON THIS SHEET	SHS R6-1L SHS R6-1R SHS R5-1		
~~418+40, LT~~	STOP	1	36	36	~~9.00~~						1						X		X															SEE NOTE ABOVE	SHS R1-1		
~~418+47, RT~~	STOP	1	36	36	~~9.00~~						1						X		X															SEE NOTE ABOVE STA. 418+14, RT	SHS R1-1		
420+75, RT	STOP Keith ave. Summer st SIDE MOUNT	1 1 1	30 36 36	12 12 36	2.50 3.00 9.00						1						X 14.25'		X															OLD STOP SIGN WAS DAMAGED	SHS D3-1 SHS D3-1		
421+92, RT	STOP	1	36	36	9.00																													MOUNT TO SIGNAL POLE	SHS R1-1		
ELM STREET																																						
423+12, LT	STOP	1	36	36	9.00						1						X 15.0'		X																SHS R1-1		
707+05, RT	Summer st Elm st	1 1	42 30	12 12	3.50 2.50																													MOUNT TO EXISTING SIGNAL POLE	SHS D3-1 (MOD 1) SHS D3-1 (MOD 2)	110	
707+05, RT	Wellington st Elm st	1 1	48 30	12 12	4.00 2.50																													MOUNT TO EXISTING SIGNAL POLE	SHS D3-1 (MOD 3) SHS D3-1 (MOD 2)	110	
702+11, LT	ONLY	1	36	30	7.50						1						X 13.5'		X																VR-922		E-145A
702+77, RT		1 1	30 24	30 12	6.25 2.00				+		1						X 15.0'																	OLD POST WAS DAMAGED	FYG SHS W11-2 FYG SHS W16-7pL		
												FT	FT	FT	FT	FT	FT	EA	LB	LB	LB		LB	LB	LB	LB									
																~~15~~ 28.5	~~75~~ 29.25	6																		
	SUB TOTALS				SF ~~84.75~~ 60.75	SF	EA.	SF				FT			FT		~~90~~ 57.75			LB			EA.	LB				EA.	EA.	LB								

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VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
DESIGNED BY: MDS — CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET — SHEET 125 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75	2.0	2.5	LB/FT 1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0	4.0	4.0 MOD	LB/FT 1.3	1.7	1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0	3.5	4.0	5.0	LB/FT 7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAMED	REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
OPTION ITEMS																																													
ELM STREET																																													
702+83, LT		1	30	30	6.25				+		1					X																										FYG SHS W11-2 OLD POST WAS DAMAGED.		
		1	24	12	2.00											14.0'																									FYG SHS W16-7pL		
703+83, RT	Jefferson St STOP	1	42	12	3.50						1						X			X																					SHS D3-1		
		1	36	36	9.00												14.0'																								SHS R1-1		
SUMMER STREET																																												
414+41, RT	ONE WAY	1	36	12	3.00						1					X						X																			THIS SIGN WAS COMBINED WITH SIGN AT STA. 414+41, RT (ABOVE). SHS R6-1R		
~~414+49~~ 414+41 RT	ONE WAY	1	36	12	3.00						~~1~~					~~X~~						~~X~~																			SHS R6-1L		
414+55, LT	STOP	1	36	36	9.00						1						X					X																			SHS R1-1		
																	9.83'																											
418+10, RT		1	30	30	6.25						1					X																										FYG SHS W11-2		
		1	24	12	2.00											15.0'																									FYG SHS W16-7pL		
418+14, RT	B-B ONE WAY ONE WAY DO NOT ENTER	1	36	12	3.00						1						X			X																					SET R6-1R & R64L BAK TO BACK WITH R5-1 FACING SUMMER ST SHS R6-1L SHS R6-1R SHS R5-1		
		1	36	12	3.00																																							
		1	36	36	9.00												14.75'																												
418+35, LT		1	30	30	6.25						1					X						X																			FYG SHS W11-2		
		1	24	12	2.00											15.0'																									FYG SHS W16-7pL		
418+40, LT	STOP	1	36	36	9.00						1						X			X																					SHS R1-1		
																	13.75'																											
418+47, RT	STOP B-B NO THRU STREET	1	36	36	9.00		1				1						X			X																					SHS R1-1		
																	15.0'																											
~~418+64, LT~~ 418+47, RT	Pearl St	1	24	12	2.00						~~1~~					~~X~~						~~X~~																			SIGN PLACED ABOVE STOP SIGN ABOVE SHS D3-1		
												FT	FT	FT	FT	FT	FT				EA	LB	LB	LB					LB	LB	LB	LB											
																~~50~~ 56	~~90~~ 67.33				9																							
	SUB TOTALS	SF	SF	EA.	SF							FT			FT							LB			EA.	LB				EA.	EA.	LB										
		87.25		1											~~150~~ 123.33																												

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VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
DESIGNED BY: MDS — CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET — SHEET 126 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75 LB/FT 1.88	2.0 LB/FT 2.42	2.5 LB/FT 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0 LB/FT 1.3	4.0 LB/FT 1.7	4.0 MOD LB/FT 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0	3.5	4.0	5.0 LB/FT 7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
																	OPTION ITEMS																								
SUMMER STREET																																								
402+78, RT	Cottage St / Summer St	1	36	12	3.00						1					X 11.67'			X																		SHS D3-1		
		1	36	12	3.00																																SHS D3-1		
403+18, LT		1	24	24	4.00						1					X 14.5'																				FYG SHS W11-2		
		1	24	12	2.00																																FYG SHS W16-7pL		
403+20, RT	STOP	1	36	36	9.00						1						X 13.83'		X																		SHS R1-1		
403+23, RT		1	24	24	4.00						1					X 14.5'			X																		FYG SHS W11-2		
		1	24	12	2.00																																FYG SHS W16-7pL		
405+00, RT	SCHOOL	1	36	36	6.75						1					X 16.0'			X																		FYG SHS S1-1		
		1	24	8	1.33																																FYG SHS S4-3		
406+71, ~~RT~~ LT	Bugbee Ave. STOP NO PARKING ANY TIME	1	36	36	9.00		2				1						X 14.25'																				SALVAGE 2 SIGNS, NO PARKING SIGN IS 90° TO STOP-FACES CURB. SHS R1-1		
406+97, RT	STOP	1	36	36	9.00						1						X 13.67'		X																		FOR TOMASI STREET SHS R1-1		
407+20, LT	YIELD	1	* 36	* 36	3.18						1				X 13.17'																						* SIZE = 36" x 36" x 36" SHS R1-2		
407+60, LT	Summer St / S. Seminary St / STOP	1	36	12	3.00						1						X 14.33'		X																		SHS D3-1		
		1	42	12	3.50																																SHS D3-1		
		1	36	36	9.00																																SHS R1-1		
408+26, RT	STOP	1	36	36	9.00						1						X 13.83'		X																		SHS R1-1		
408+35, RT		1	30	30	6.25						1						X 14.0'		X																		SHS W12-1		
408+43, RT	DO NOT ENTER	1	30	30	6.25																																FACES SUMMER STREET SIDE BY SIDE WITH W11-2 BELOW SHS R5-1		
408+43, RT		1	30	30	6.25						1						X 16.67'		X																		SIDE BY SIDE WITH R5-1 FYG SHS W11-2		
		1	24	12	2.00																																FYG SHS W16-7pL		
												FT	FT	FT	FT	FT	FT	EA	LB	LB	LB		LB	LB	LB	LB												
																75	105		9																				
																69.84	100.58																						
SUB TOTALS					SF 101.51	SF	EA. 2	SF				FT			FT 180 170.42					LB			EA.	LB				EA.	EA.	LB									

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VHB Vanasse Hangen Brustlin, Inc.

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FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
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TRAFFIC SIGN SUMMARY SHEET — SHEET 127 OF 339

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TRAFFIC SIGN SUMMARY SHEET

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SUMMER STREET											OPTION ITEMS																											
408+72, RT	GMTA B-B CHURCH PARKING USE WEST ST	1	*	*	3.18	2					1						X		X															* SIZE = 36" x 36" x 36"	SHS R1-2		
		1	30	30	6.25												14.75'																		SHS R3-2		
409+16, LT		1	30	30	6.25						1					X			X															FYG	SHS W11-2		
		1	24	12	2.00											15.0'																		FYG	SHS W16-7pL		
410+36, LT	SPEED LIMIT 25	1	24	30	5.00						1					X			X																SHS R2-1		
																13.33'																				
411+62, LT	SAL. NO PARKING ANYTIME	1	30	30	6.25	1					1					X			X															NO PARKING SIGN FACES CURB-90 TO PED. SIGN. SALVAGED DOWN ARROW.	FYG	SHS W11-2	
		~~1~~	~~24~~	~~12~~	~~2.00~~											15.0'																		FYG	SHS W16-7pL		
411+66, LT	West STOP CHURCH PARKING	1	24	12	2.00	1					1						X		X																SHS D3-1		
		1	36	36	9.00												15.33'																		SHS R1-1		
411+67, RT		1	30	30	6.25				+		1					X																		REPLACE PRIMARY SIGN; ~~RETAIN~~ SUPPLEMENTAL SIGN AND POST ADD NEW	SHS W11-2	FYG	
		1	24	12	2.00		1									15.75'																				
411+70, RT	B-B ONE WAY ONE WAY DO NOT ENTER	1	36	12	3.00						1					X			X															SET R6-1R & R6-1L BAK TO BACK WITH R5-1 FACING SUMMER ST	SHS R6-1L		
		1	36	12	3.00																													SHS R6-1R		
		1	36	36	9.00												14.83'																		SHS R5-1		
412+08, RT	STOP	1	36	36	9.00						1					X			X																SHS R1-1		
																13.75'																				
412+95, LT	SCHOOL	1	36	36	6.75						1					X			X																FYG	SHS S1-1		
		1	24	8	1.33											14.0'																		FYG	SHS S4-3		
												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB									
																~~50~~	~~60~~		8																		
																73.08	58.66																				
	SUB TOTALS		SF	SF	EA.	SF						FT			FT					LB			EA.	LB				EA.	EA.	LB						
			80.26		1 4												~~120~~ 131.74																				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

BOW = BLACK LEGEND ON WHITE BACKGROUND - PLAQUE
GOW = GREEN LEGEND ON WHITE BACKGROUND - PLAQUE
WOB = WHITE LEGEND ON BLUE BACKGROUND - PLAQUE
FYG = BLACK LEGEND ON FLUORESCENT YELLOW-GREEN BACKGROUND
SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

AVERAGE POST LENGTH = 15 FT

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_TSSS_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: MDS
TRAFFIC SIGN SUMMARY SHEET

PLOT DATE: 3/31/2011
DRAWN BY: CMD
CHECKED BY:
SHEET 128 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME	REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																										
PROSPECT STREET																																				
501+65, RT	R/R	1	36	36	7.07						1					X 13.83'																	SHS W10-1		
502+24, LT	DO NOT STOP ON TRACKS	1	24	30	5.00						1					X 13.33'																	SHS R8-8		
502+93, RT	RAIL ROAD CROSSING / DO NOT STOP ON TRACKS B-B; STOP SIGN REPLACED WITH YEILD SIGN.; REPORT EMERGENCY OR PROBLEM TO 1-800-343-2732 CROSSING 887 335 K	1 1 1 1 1	48 48 24 30 30 15	9 9 30 30 9	6.00 5.00 6.25 3.18 0.94						2					16.25' X 16.5'																	CROSSBUCK SHALL INCLUDE REFLECTIVE STRIPS ON BACK AND ON POST SHS R15-1 SHS R8-8 SHS R1-1 SHS INTERIM I-13		MUTCD FIGURE 8B-2
503+24, LT	RAIL ROAD CROSSING / DO NOT STOP ON TRACKS B-B; STOP SIGN REPLACED WITH YEILD SIGN.; REPORT EMERGENCY OR PROBLEM TO 1-800-343-2732 CROSSING 887 335 K	1 1 1 1 1	48 48 24 30 30 15	9 9 30 30 9	6.00 5.00 6.25 3.18 0.94						2					16.25' X 16.25'																	CROSSBUCK SHALL INCLUDE REFLECTIVE STRIPS ON BACK AND ON POST SHS R15-1 SHS R8-8 SHS R1-1 SHS INTERIM I-13		MUTCD FIGURE 8B-2
504+20, LT	R/R	1	36	36	7.07						1					X 13.83'																	SHS W10-1		
504+95, LT		1 1	30 30	30 30	6.25 6.25						1					X 14.0'																	SHS W3-1		
VARIOUS LOCATIONS SEE SIGN FOLDER	TURNING VEHICLES R10-15	14	30	30	87.5																															
VARIOUS LOCATIONS SEE SIGN FOLDER	TURNING VEHICLES R10-15	6	30	30	37.5																															
											FT	FT	FT	FT	FT	FT	EA	LB	LB	LB		LB	LB	LB	LB										
SUB TOTALS					SF ~~51.77~~ 186.77	SF	EA.	SF			FT				FT ~~120~~ 120.24			LB			EA.	LB				EA.	EA.	LB							

REMOVED AND REPLACED WITH YEILD SIGN

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

AVERAGE POST LENGTH = 15 FT

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SHS = FHWA STANDARD HIGHWAY SIGNS BOOK

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_TSSS_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: CMD
DESIGNED BY: MDS — CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET — SHEET 129 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

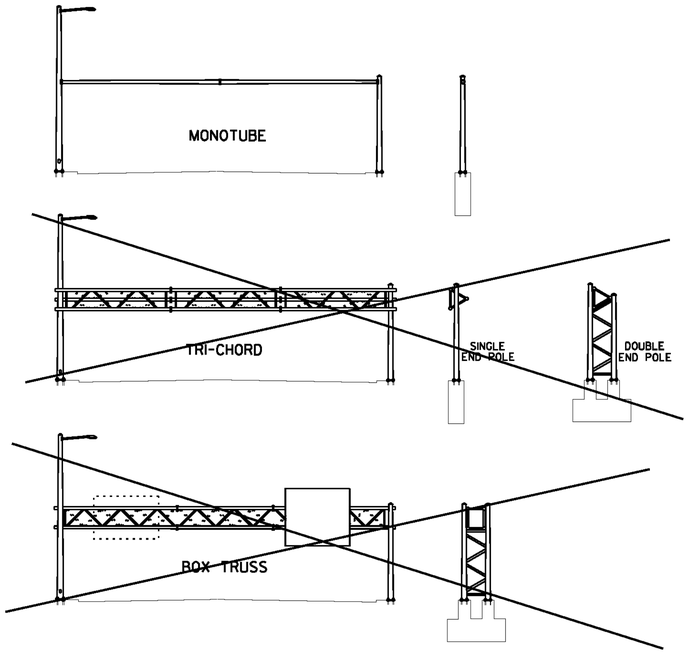
MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) 1.75	2.0	2.5 LB/FT 1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) 3.0	4.0	4.0 MOD LB/FT 1.3	1.7	1.7	TUBULAR STEEL Ø (IN) FOUNDATION	3.0	3.5	4.0	5.0 LB/FT 7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAMES REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
	OPTION ITEMS																																										
	SUB TOTALS	SF		SF	EA.	SF			FT			FT			EA.	LB		EA.	LB				EA.	EA.	LB																
	FROM SHEET 111	32.07		149.00								70			3																										
	FROM SHEET 112	73.95										120			4																										
	FROM SHEET 113	39.07		122.50	5							60			3																										
	FROM SHEET 114	33.19										60			3																										
	FROM SHEET 115	70.14										100			5																										
	FROM SHEET 116	49.00										105			6																										
	FROM SHEET 117	71.75										165			11																										
	FROM SHEET 118	63.00										105			8																										
	FROM SHEET 119	84.00			2							180			12																										
	FROM SHEET 120	54.75		90.50	5							105			5																										
	FROM SHEET 121	58.76			2							120			6																										
	FROM SHEET 122	24.69			2							45			3																										
	FROM SHEET 123	66.31		117.00								120			3																										
	FROM SHEET 124	30.37		149.00	1							90			2																										
	FROM SHEET 125	84.75										90			6																										
	FROM SHEET 126	87.25										150			9																										
	FROM SHEET 127	101.51										180			9																										
	FROM SHEET 128	80.26			1							120			8																										
	FROM SHEET 129	51.77										120																												
									FT	FT	FT	FT	FT	FT	EA	LB	LB	LB		LB	LB	LB	LB																		
	ROUNDING	0.41																																						
	TOTALS	SF 1157		SF 628	EA. 18	SF			FT			FT 2105			EA 106	LB		EA.	LB				EA.	EA.	LB														

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

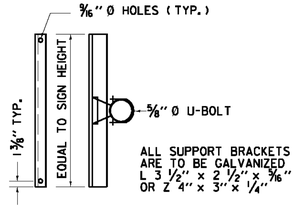
FILE NAME: 85b010_TSSS_C2 | PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: CLC
DESIGNED BY: MDS | CHECKED BY:
TRAFFIC SIGN SUMMARY SHEET | SHEET 130 OF 339



TRUSS-TYPE SPANS SHALL BE PROHIBITED

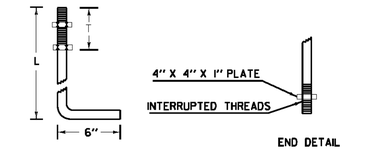


DETAIL A

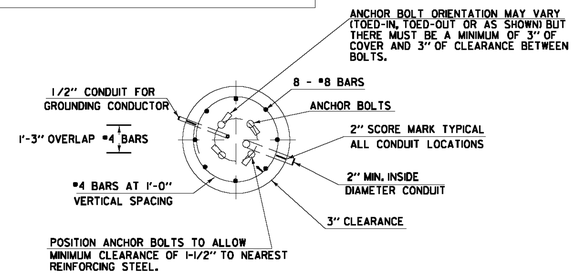


SIGN BRACKET DETAILS

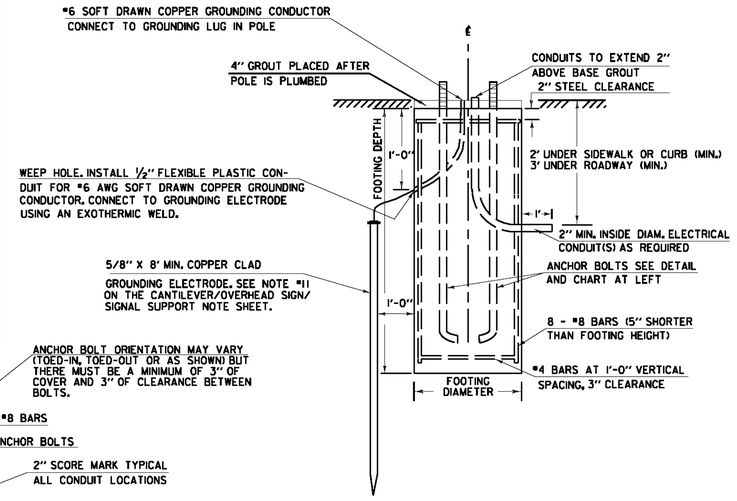
ANCHOR BOLT DETAIL		
SIZE	L (IN)	T (IN)
1- 1/4" X 48"	42	8
1- 1/2" X 60"	54	9
1- 3/4" X 90"	84	9
2" X 96"	96	9



ANCHOR BOLT DETAIL



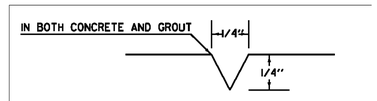
SECTION



ELEVATION

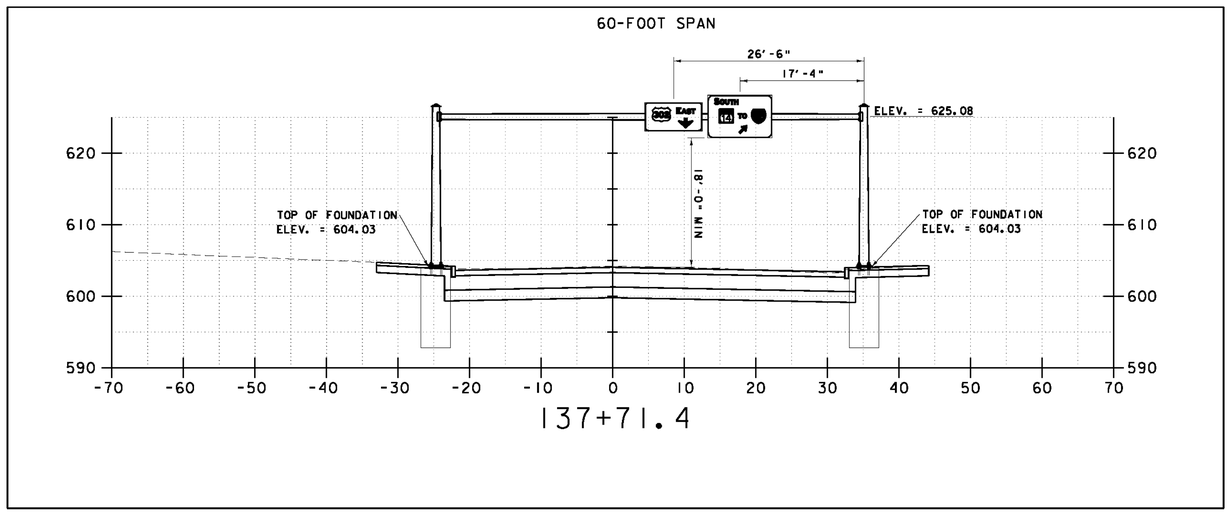
OVERHEAD TRAFFIC SIGN BRIDGE FOOTING DETAIL

(SPREAD FOOTINGS SHALL NOT BE PERMITTED)



USED FOR CONDUIT LOCATION, SEE SECTION DETAIL AT LEFT

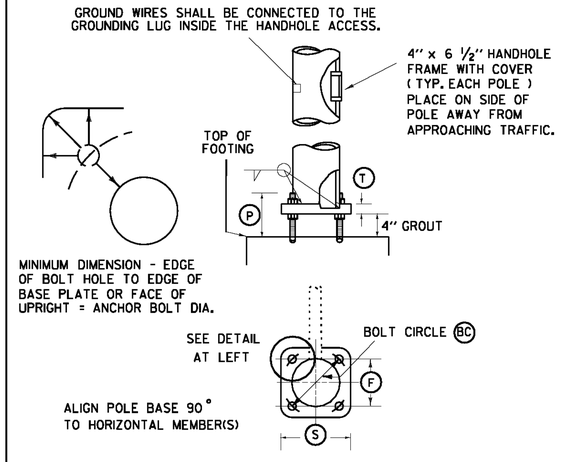
2" SCORE MARK DETAIL



OVERHEAD SIGN BRIDGE CROSS SECTION

NOTES:

1. SEE OVERHEAD SIGN SUPPORT NOTES SHEET (SHEET 95) FOR ADDITIONAL INFORMATION.
2. MANUFACTURER TO DESIGN FOUNDATION IN ACCORDANCE WITH VTRANS MREI 10-01. ALL FOUNDATIONS SHALL BE CYLINDRICAL; SPREAD FOOTINGS SHALL NOT BE PERMITTED.
3. SPANS SHALL BE MONOTUBE DESIGN.
4. MINIMUM CLEARANCE FROM SIGNS TO ROADWAY IS 18'.
5. SEE BORING LOGS FOR GEOTECHNICAL INFORMATION FOR POLE FOUNDATIONS (SHEETS 45-55)
6. ALL SIGN STRUCTURES SHALL BE PAINTED BLACK PER THE SPECIAL PROVISIONS AND THE OVERHEAD SIGN SUPPORT NOTES SHEET (SHEET 95).



POLE BASE AND BASE PLATE DETAIL

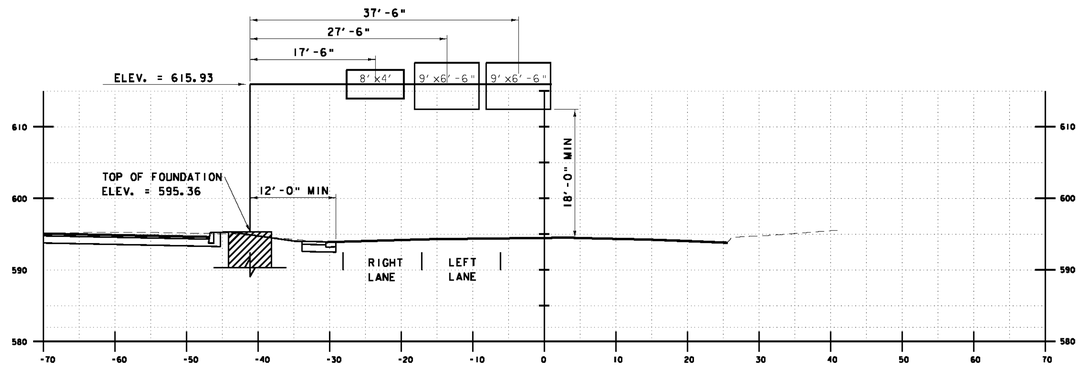
NOTE:
DETAILS
NTS

OVERHEAD TRAFFIC SIGN BRIDGE / FOOTING DETAIL SHEET

z85b010_SIGN_C2

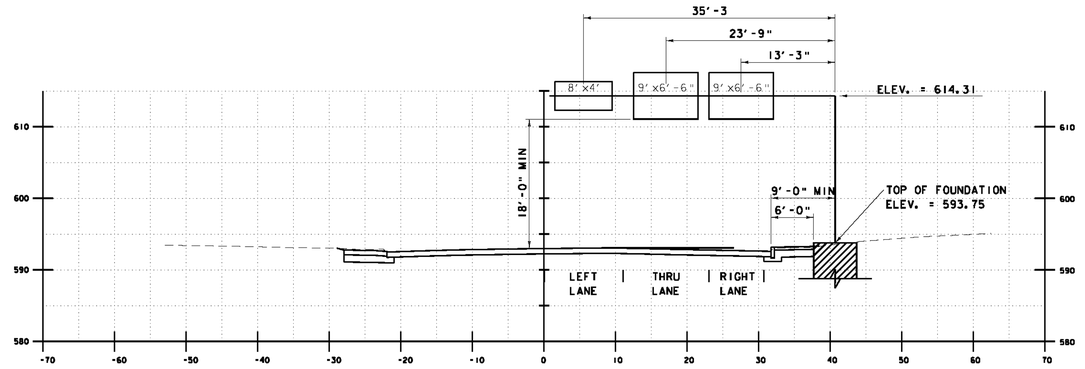
LAST REVISED 8/15/95

PREPARED BY JAR DATE 3/21/2011
CHECKED BY MDS DATE 3/21/2011
DESIGN SUPERVISOR _____ DATE _____
PROJ. BARRE CITY
FEGC F 026-1(34) C/2
TRAFFIC SHEET NO. _____ OF _____
SHEET 131 OF 339 SHEETS



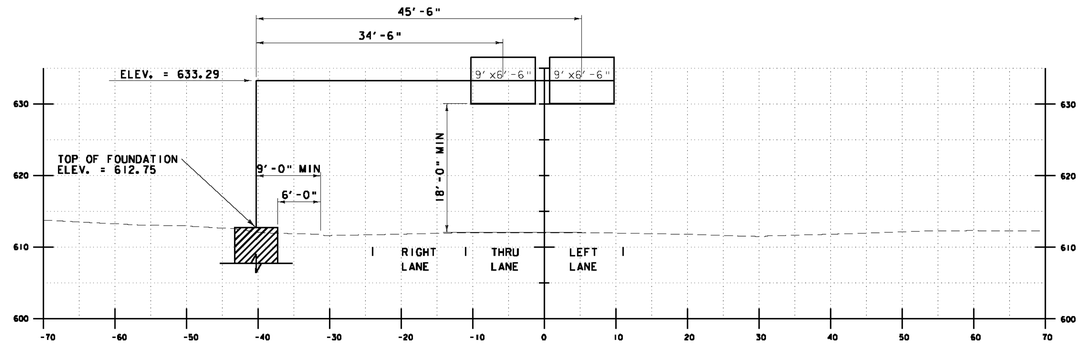
22+32.0, LT

42-FOOT CANTILEVER ARM



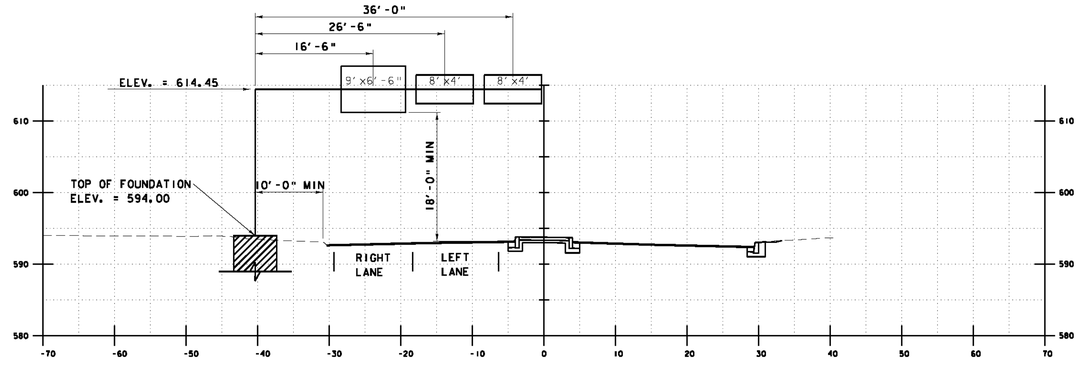
112+12.6, RT

40-FOOT CANTILEVER ARM



141+97, LT

50-FOOT CANTILEVER ARM



11+49.5, LT

40-FOOT CANTILEVER ARM

NOTE: ALL CANTILEVER SIGN STRUCTURE ELEMENTS SHALL BE PAINTED BLACK PER THE SPECIAL PROVISIONS. ALL CANTILEVER SIGN STRUCTURE FOUNDATIONS SHALL BE CYLINDRICAL. SPREAD FOOTING FOUNDATIONS SHALL NOT BE PERMITTED. SEE OVERHEAD SIGN SUPPORT NOTES SHEET (SHEET 95) FOR ADDITIONAL DETAILS.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_CANT_C2	PLOT DATE: 3/21/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CANTILEVER SIGN STRUCTURE CROSS SECTIONS	SHEET 132 OF 339

CIVIL GENERAL NOTES

1. THERE ARE NUMEROUS EXISTING BURIED UTILITIES IN THIS PROJECT AREA. THE LOCATION OF PIPES, DUCTS CONDUITS, AND OTHER UNDERGROUND STRUCTURES SHOWN HERE ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND STRUCTURES ARE SHOWN. THESE UTILITIES ARE SHOWN BASED ON BEST AVAILABLE FIELD EVIDENCE AND RECORDED DATA PROVIDED BY THE OWNER. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED, BY THE CONTRACTOR, DURING THE PROJECT.
2. THE CONTRACTOR MUST CONSTRUCT THE WATER MAIN WHILE MAINTAINING WATER SERVICE THROUGH THE EXISTING WATER MAINS. WATER SERVICE SHALL NOT BE INTERRUPTED FOR MORE THAN FOUR (4) HOURS. ALL CUSTOMERS THAT MAY BE TEMPORARILY OUT OF WATER SHALL BE NOTIFIED TWENTY–FOUR (24) HOURS PRIOR TO ACTIVITY BY THE CONTRACTOR.
3. THE CONTRACTOR MUST CONSTRUCT THE SANITARY SEWER MAIN WHILE MAINTAINING SEWER SERVICE THROUGH THE EXISTING COLLECTION SYSTEM OR A BY–PASS PUMPING SYSTEM. SEWER SERVICE SHALL NOT BE INTERRUPTED FOR MORE THAN FOUR (4) HOURS. ALL CUSTOMERS THAT MAY BE TEMPORARILY OUT OF SEWER SERVICE SHALL BE NOTIFIED TWENTY–FOUR (24) HOURS PRIOR TO ACTIVITY BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION TO VERIFY LOCATIONS AND SIZES OF EXISTING WATER, SEWER, STORM DRAIN SYSTEMS, AND SERVICES, PRIOR TO INSTALLATION OF ANY SEGMENT OF NEW UTILITIES. CONTRACTOR SHALL USE EXTREME CAUTION TO PREVENT DAMAGE TO EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. ALL REPAIRS TO DAMAGED UTILITIES SHALL BE MADE BY THE CONTRACTOR, USING MATERIALS APPROVED BY THE ENGINEER, AT NO ADDITIONAL EXPENSE OF THE OWNER.
5. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN THE CONSTRUCTION GENERAL PERMIT(3–9001) AND THE VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENTATION CONTROL.
6. WHEN REPLACING STRUCTURES AND/OR CONNECTING TO EXISTING PIPING SYSTEMS, CONFIRM EXISTING LOCATIONS, SIZES AND ELEVATIONS OF INVERTS PRIOR TO ORDERING PRE–CAST STRUCTURES.
7. CONTRACTOR TO USE EXTREME CAUTION WHEN EXCAVATING NEAR BUILDINGS AND OTHER STRUCTURES.
8. GENERALLY DARK OR HEAVY LINE WEIGHT REFERS TO PROPOSED IMPROVEMENTS. NORMAL FONT OR LIGHT LINE WORK REFERS TO EXISTING FACILITIES.
9. CONTRACTORS SHALL COORDINATE WITH DIG SAFE A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION.
10. REFER TO WATER DETAILS AND SEWER DETAILS FOR CONSTRUCTION DETAILS.
11. ALL WORK SHALL BE DONE ON LANDS OWNED BY CITY OF BARRE OR IN THE PUBLIC RIGHT–OF–WAY OR EASEMENT AREAS.
12. LISTING OF ADAPTERS, FITTINGS, NIPPLES, ETC. IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. ADDITIONAL MATERIAL MAY BE REQUIRED. SOLID SLEEVE COUPLINGS WILL BE REQUIRED FOR CONNECTION TO EXISTING MAINS.
13. MINIMUM VERTICAL CLEARANCE BETWEEN NEW WATER MAINS AND ALL EXISTING UTILITIES, EXCEPT SEWERS AND STORM DRAINS TO BE SIX (6) INCHES AT CROSSING LOCATIONS. SEE WATER AND SEWER SEPARATION NOTES ON THIS SHEET FOR MINIMUM CLEARANCE FROM SEWERS AND STORM DRAINS.
14. ANY EXISTING WATER AND SEWER SERVICES WILL BE REPAIRED OR RELOCATED AS NECESSARY IN ORDER TO MAINTAIN SERVICE. THE UTILITY OWNER WILL ASSIST IN THE LOCATION AND MARKING OF THESE SERVICES BUT THE CONTRACTOR MAY BE REQUIRED TO CONDUCT EXPLORATORY EXCAVATION AS REQUIRED.
15. WHERE NEW MECHANICALLY RESTRAINED PIPE IS CONNECTED TO EXISTING PUSH ON JOINT PEIP THE CONTRACTOR MUST ADEQUATELY RESTRAIN EXISTING PUSH ON PIPE AS NECESSARY..
16. ALL WATER MAIN PIPE, VALVES, FITTINGS, AND HYDRANTS ARE TO BE MECHANICALLY RESTRAINED USING MECHANICAL JOINTS WITH WEDGE TYPE RETAINER GLANDS. CONTRACTOR MAY USE THRUST BLOCKS AT HIS DISCRETION.
17. WATER MAINS TO HAVE 6.0 FEET MINIMUM COVER UNLESS OTHERWISE STATED OR SHOWN ON THE PROFILES. WHEN 6.0 FEET OF COVER CANNOT BE MAINTAINED 4" RIGID BOARD INSULATION SHALL BE USED. DEPTH COVER SHALL NOT BE LESS THAN 4 FEET EVEN WITH INSULATION. SEWER MAIN SHALL HAVE A MINIMUM OF 6.0' OF COVER UNLESS OTHERWISE STATED OR SHOWN ON THE PROFILES.
18. ALL WATER MAIN ON THE PROJECT SHALL BE MECHANICAL JOINT AND SHALL INCORPORATE A WEDGE TYPE RETAINER GLAND INSTEAD OF THE COMMON FOLLOWER GLAND.
19. CONTRACTOR IS RESPONSIBLE FOR FLUSHING, PRESSURE TESTING AND DISINFECTING ALL NEW WATER MAIN. CHLORINE INJECTION POINTS SHALL BE INSTALLED WHERE REQUIRED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION AND REMOVED UPON COMPLETION OF TESTING. CONTRACTOR TO DISCUSS PROCEDURES WITH ENGINEER PRIOR TO COMMENCEMENT OF TESTING.
20. CONTRACTOR SHALL VERIFY LOCATION OF ALL OVERHEAD AND UNDERGROUND ELECTRIC, CABLE AND TELEPHONE LINES AND TAKE NECESSARY PRECAUTIONS IN STRICT ACCORDANCE WITH OSHA STANDARDS DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE LOCAL POWER UTILITY AND TELEPHONE UTILITY REGARDING ANY NECESSARY SUPPORT OF ANY UTILITY POLES DURING CONSTRUCTION. SEE THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
21. CONTRACTOR TO PROVIDE CAPS FOR ALL ABANDONED PIPING AS REQUIRED. ALL TYPES OF PIPE CAPPING TO BE PAID FOR UNDER THE PIPE UNIT PRICE. ALL MAIN LINE UTILITIES TO BE ABANDONED SHALL BE FILLED WITH FLOWABLE FILL. ALL SERVICE LINES TO BE REMOVED.
22. CONTRACTOR SHALL MAKE EVERY EFFORT TO ALLOW ACCESS TO AND FROM DRIVEWAYS, RESIDENCES, AND BUSINESSES LOCATED ALONG THE ROUTE OF CONSTRUCTION.
23. TECHNICAL SPECIFICATIONS PROVIDE NECESSARY INFORMATION AND ARE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.
24. ROOF DRAIN INFORMATION SHOWN HEREON RELY ON INFORMATION PROVIDED BY PLANS PRODUCED BY VANASSE HANGEN BRUSTLIN, INC. CONTRACTOR IS TO VERIFY STORMWATER STRUCTURE INVERT INFORMATION PRIOR TO COMMENCMENT OF CONSTRUCTION OF EACH ROOF DRAIN.
25. CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO GAIN ACCESS TO BASEMENTS WHERE NECESSARY.
26. FLOWABLE FILL IS TO BE USED DIRECTLY UNDER EXISTING DUCT BANK WHEN MECHANICAL COMPACTION CANNOT ACHIEVE THE REQUIRED COMPACTION AT ALL UTILITY MAIN AND SERVICE CROSSINGS.
27. ALL WATER MAIN (INCLUDING INTERCONNECTION POINTS, SPRINKLER LINES, AND FUTURE STUBS) MUST BE FLUSHED PRIOR TO DISENFECTION. TEMPORARY FLUSHING CONNECTIONS AE REQUIRED IN MOST CASES. SEE DETAIL ON SHEET 154.

WATER AND SEWER SEPARATION

1. PARALLEL INSTALLATION: WATER MAINS AND WATER SERVICES SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER OR FIVE (5) FEET FROM ANY STORM SEWER. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
2. CROSSINGS: WATER MAINS OR WATER SERVICES CROSSING SEWER PIPES (SANITARY OR STORM) SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF EIGHTEEN (18) INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER PIPE. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS ABOVE OR BELOW THE SEWER PIPE. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IF THE SEWER MAIN IS OVER THE WATER MAIN, THE FIRST SEWER PIPE JOINTS ON EACH SIDE OF THE WATER MAIN MUST BE CONCRETE ENCASED. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.

LOCAL VALVE OPERATION

1. EXISTING AND PROPOSED MAIN LINE GATE VALVES SHALL OPEN RIGHT OR CLOCKWISE. OPERATION OF GATE VALVES WILL BE PERFORMED BY THE UTILITY OWNER'S STAFF ONLY.
2. ALL INTERCONNECTIONS TO THE EXISTING SYSTEM CAN ONLY BE MADE WITH THE WRITTEN PERMISSION OF THE ENGINEER.

LEGEND

EXISTING		PROPOSED	
	BUILDING	S	SANITARY SEWER
	CURB	S	SEWER SERVICE
	EDGE OF PAVEMENT	W	WATER MAIN
	EDGE OF SIDEWALK	HPW	HIGH PRESSURE WATER MAIN
	EDGE OF GRAVEL DRIVE	W	WATER SERVICE
W	WATER MAIN		ROOF DRAIN
S	SANITARY SEWER		SEWER MANHOLE
	STORM DRAIN		GATE VALVE
	SEWER MANHOLE		BUTTERFLY VALVE
	CATCH BASIN		FIRE HYDRANT
	DRAIN MANHOLE		CURB STOP
	TELEPHONE MANHOLE		MANUAL AIR RELEASE
	ELECTRIC MANHOLE		END CAP
	FIRE HYDRANT		PIPE FITTINGS
	GATE VALVE		SOLID SLEEVE
	CURB STOP		CATCH BASIN (BY OTHERS)
T	TELEPHONE		STORM MANHOLE (BY OTHERS)
GAS	GAS LINE		STORM DRAIN (BY OTHERS)
UE	UNDERGROUND ELECTRIC	T	TELEPHONE (BY OTHERS)
	UTILITY POLE	UE	UNDERGROUND ELECTRIC (BY OTHERS)
	GUY WIRE		LIGHT AND BASE (BY OTHERS)
	TREELINE		GFI RECEPTICAL (BY OTHERS)
	SIGN		TREE (BY OTHERS)
	LIGHT		UTILITIES TO BE ABANDONED
	CHAINLINK FENCE		FUTURE STUB
	MAIL BOX		SEWER VAULT
	RIGHT OF WAY		

INDEX OF SHEETS

NUMBER	TITLE
133	GENERAL NOTES AND LEGEND
134	WATER AND SEWER SITE PLAN
135	WATER AND SEWER SITE PLAN
136	WATER AND SEWER SITE PLAN
137	WATER AND SEWER SITE PLAN
138	WATER AND SEWER SITE PLAN
139	SANITARY SEWER PROFILES
140	SANITARY SEWER PROFILES
141	SANITARY SEWER PROFILES
142	SANITARY SEWER PROFILES
143	SANITARY SEWER PROFILES
144	SEWER SERVICE PROFILES
145	SEWER SERVICE PROFILES
146	SEWER SERVICE PROFILES
147	SEWER SERVICE PROFILES
148	SEWER SERVICE PROFILES
149	SEWER SERVICE PROFILES
150	SEWER DETAILS
151	WATER PROFILES
152	WATER PROFILES
153	WATER PROFILES
154	WATER DETAILS
155	ROOF DRAIN PROFILES
156	ROOF DRAIN PROFILES
157	ROOF DRAIN PROFILES
158	BOX CULVERT DETAILS

ABBREVIATIONS

CPEP	CORRUGATED POLYETHYLENE PIPE
DI	DUCTILE IRON
FF	FINISHED FLOOR
ID	INSIDE DIAMETER
MJ	MECHANICAL JOINT
N/F	NOW OR FORMALLY
PP	PRESSURE PIPE
RD	ROOF DRAIN
ROW	RIGHT–OF–WAY
SMH	SEWER MANHOLE
SS	SEWER SERVICE
TYP	TYPICAL
WS	WATER SERVICE
MIN	MINIMUM
TBR	TO BE REMOVED
TBV	TO BE VERIFIED

STATE OF VERMONT ROBERT E. DUFRESNE NO. 3837 CIVIL REGISTERED PROFESSIONAL ENGINEER
12-22-10

DUFRESNE GROUP CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SITE PLANS
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
LEGEND AND GENERAL NOTES

PLOT DATE: Mar. 22, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 133 OF 339

ABANDON EXISTING SEWER MANHOLES WHERE SHOWN ABANDONED SEWER MANHOLE TO BE REMOVED AND DISPOSED OF (4 THIS SHEET). CONTRACTOR SHALL FILL ABANDONED SEWER MAIN WITH FLOWABLE FILL.

CONTRACTOR SHALL FURNISH AND INSTALL WATER METERS FOR ALL CUSTOMERS IN PROJECT AREA. SEE SHEET 154 FOR DETAIL AND TABLE FOR METER AND SERVICE SIZE. INSTALLATION SHALL BE DONE BY VERMONT LICENSED PLUMBER. CITY OF BARRE TO DIRECT LOCATIONS FOR METER AND REMOTE TOUCH-READ PADS.

N/F ELLEN R. BEAR NO. 397 (UNIT A) N/F JONATHAN S. & KIMBERLEY A. RENFREW NO. 397 (UNIT B)

N/F ELLIOT G. JR. & SUSAN S. HANSEN NO. 399

N/F NORWAY BARRE REAL ESTATE LLC NO. 395

PARIS NAILS

NORWAY & SONS, INC.

N/F MICHAEL E. BARCOMB NO. 405

MAPLE AVENUE

N/F JAIMES L FEWERAGENCY INC.NO. 5

N/F Z'S NORTHERN PROPERTIES NO. 379

MISTER Z'S

EXXON STATION

COTTAGE STREET

EXIST. R.O.W.

NORTH MAIN STREET - U.S. ROUTE 302

N/F ANTONIO & DAVID A. CAMPOS NO 396

N/F RICHARD H. & LUCILLE A. BLENTE NO. 398

N/F CAMPOS REALTY LLC NO. 386

N/F EDWARD S. SIMONDS NO. 372 & 378

VERMONT ROUTE 62

N/F PARESH RAMESH T, GAYATRIBEN P NO. 362

PIERRE MOTEL

N/F PAUL D. & NO. 360

JIMMY MART SHELL STATION

MATCHLINE TO SHEET 135

SMH 1
SET OVER EXISTING 24" SEWER MAIN
6' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 2
8'x8' PRECAST CONCRETE VAULT
SEE DETAIL SHEET 150

SMH 3
8'x8' PRECAST CONCRETE VAULT
SEE DETAIL SHEET 150

SMH 4
6' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 17
SET OVER EXISTING 6" SEWER MAIN
4' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 18
SET OVER EXISTING 6" SEWER MAIN
4' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

NEW 30" SEWER MAIN

(2) NEW 24" SEWER MAINS

NEW 8" SEWER MAIN

24" NEW 30" SEWER MAIN

16" FUTURE CONNECTION
SEE DETAIL SHEET 154

8" FUTURE CONNECTION
SEE DETAIL ON SHEET 154

1½" WATER SERVICE

6" NEW SPRINKLER SERVICE

NEW 8" WATER MAIN MJ

CONCRETE ENCASE WATER MAIN WHEN WITHIN 5' OF CB OR STORM DRAIN PIPE

8" GATE VALVE, MJ

MANUAL AIR RELEASE/ CHLORINE INJECTION POINT SEE DETAIL ON SHEET 154

6" RD CONNECT TO EXISTING DRAIN AT R.O.W.

4" RD CONNECT TO EXISTING DRAIN AT R.O.W.

BENDS
(2) 16"ø 45° BENDS, MJ

OVERHEAD STREET SIGN

CAP SEWER SERVICE AT R.O.W.

INTERCONNECTION
16"x8" TEE, MJ
8"ø NIPPLE, VARIABLE LENGTH
8"ø GATE VALVE, MJ
8"ø NIPPLE, VARIABLE LENGTH
8"ø 90° BEND, MJ
8"ø NIPPLE, VARIABLE LENGTH
8"ø SOLID SLEEVE, MJ
8"ø END CAP, MJ

INTERCONNECTION
16"x8" DI TEE, MJ
8"ø NIPPLE, VARIABLE LENGTH
8"ø 45° BEND, MJ
8"ø NIPPLE, VARIABLE LENGTH
8"ø GATE VALVE, MJ
8"ø NIPPLE, VARIABLE LENGTH
8"ø 45° BEND, MJ
8"ø NIPPLE, VARIABLE LENGTH
8"ø SOLID SLEEVE, MJ
8"ø END CAP, MJ

NEW 16" WATER MAIN MJ

6" RD CAP INSIDE BUILDING

CONNECTION 16"x8" TEE, MJ

16" BUTTERFLY VALVE, MJ AND BOX

6" RD CONNECT TO EXISTING DRAIN AT R.O.W.

4" RD CONNECT TO EXISTING DRAIN AT R.O.W.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)

NOTES:

1. SEE SHEET 133 FOR GENERAL NOTES, LEGEND AND LIST OF ABBREVIATIONS.
2. SEE SHEETS 139-143 FOR SEWER MAIN PROFILES
3. SEE SHEETS 151-153 FOR WATER MAIN PROFILES
4. SEE SHEETS 144-149 FOR SEWER SERVICE PROFILES
5. SEE SHEETS 155-157 FOR ROOF DRAIN PROFILES
6. SEE SHEETS 150 AND 154 FOR DETAILS
7. SEE PLANS PROVIDED BY VANASSE HANGEN BRUSTLIN, INC FOR ADDITIONAL INFORMATION, INCLUDING STORM DRAIN AND ROAD IMPROVEMENTS

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 717014-SITE PLANS
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
WATER AND SEWER SITE PLAN

PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 134 OF 339

ABANDON EXISTING SEWER MANHOLES WHERE SHOWN ABANDONED SEWER MANHOLE TO BE REMOVED AND DISPOSED OF (5 THIS SHEET). CONTRACTOR SHALL FILL ABANDONED SEWER MAIN WITH FLOWABLE FILL.

CONTRACTOR SHALL FURNISH AND INSTALL WATER METERS FOR ALL CUSTOMERS IN PROJECT AREA. SEE SHEET 154 FOR DETAIL AND TABLE FOR METER AND SERVICE SIZE. INSTALLATION SHALL BE DONE BY VERMONT LICENSED PLUMBER. CITY OF BARRE TO DIRECT LOCATIONS FOR METER AND REMOTE TOUCH-READ PADS.

LENNY'S SHOES & APPAREL

BROOKS PHARMACY

VERMONT TOURIST INFORMATION BOOTH

EXIST. R.O.W.

N/F DOWNTOWN BARRE DEVELOPMENT CORP. NO. 355

6" SPRINKLER SERVICE SEE DETAIL ON SHEET 154

DRAIN ON COVER

EXIST. STREET LIGHT (TYP.)

SMH 5 6' ID PRECAST CONCRETE MANHOLE SEE DETAIL SHEET 150

CONNECT TO EXISTING SANITARY SEWER AT ELEV. 586.0 TBV

1½" WATER SERVICE

6" FUTURE CONNECTION SEE DETAIL ON SHEET 154

SOUTH SEMINARY STREET

CONCRETE ENCASE WATER MAIN WHEN WITHIN 5' OF CB OR STORM DRAIN PIPE

SMH 19 SET OVER EXISTING 8" SEWER MAIN 4' ID PRECAST CONCRETE MANHOLE SEE DETAIL SHEET 150

6" NEW SPRINKLER SERVICE

NEW 8" WATER MAIN MJ

NEW 12" SEWER MAIN

8"ø GATE VALVE, MJ

NEW 30" SEWER MAIN

NEW 16" WATER MAIN MJ

NEW 8" SEWER MAIN

SMH 6 6' ID PRECAST CONCRETE MANHOLE SEE DETAIL SHEET 150

MATCHLINE TO SHEET 134

NORTH MAIN STREET – U.S. ROUTE 302

EXIST. R.O.W.

MATCHLINE TO SHEET 136

HYDRANT TBR

6" NEW SPRINKLER SERVICE

1½" WATER SERVICE

6" NEW SPRINKLER SERVICE

6" RD CAP INSIDE BUILDING

CONNECT TO EXISTING SPRINKLER SERVICE WITH 6"X4" REDUCER, MJ 4"ø DI NIPPLE, VARIABLE LENGTH 4"ø SOLID SLEEVE, MJ

LIVE SEWER FOUND.

1½" WATER SERVICE

REMOVE SIGN & SUPPORTS REPAIR PAVEMENT

HYDRANT SEE DETAIL ON SHEET 154

HYDRANT TBR

6" SPRINKLER SERVICE SEE DETAIL ON SHEET 154

1½" WATER SERVICE

CONNECT TO EXISTING SPRINKLER SERVICE WITH 6"ø SOLID SLEEVE, MJ

CONNECTION 16"x8" TEE, MJ

N/F COMMUNITY NATIONAL BANK NO. 316

N/F CHAMPLAIN OILNO. 350

HYDRANT SEE DETAIL ON SHEET 154

BARRE LODGE NO. 139 LOYAL ORDER OF MOOSE NO. 328 – 330 – 332

1½" WATER SERVICE

6"ø x45° BEND, MJ 6"ø DI NIPPLE, VARIABLE LENGTH 6"ø x45° BEND, MJ 6"ø DI NIPPLE, VARIABLE LENGTH 6"X4" DI REDUCER, MJ 4"ø DI NIPPLE, VARIABLE LENGTH CONNECT TO EXISTING SPRINKLER SERVICE WITH 4"ø SOLID SLEEVE, MJ

DOMINO'S PIZZA

COPY WORLD

N/F R YORK INC.NO. 322

6" SPRINKLER SERVICE SEE DETAIL SHEET 22

MAINLINE VALVE 16"ø BUTTERFLY VALVE, MJ

6" RD CONNECT TO EXISTING DRAIN AT R.O.W.

N/F AMERICAN LEGION POST NO. 320

BURGER KING

N/F VERMONT PROPERTIES REALTY TRUSTCHARLES R. & MERI R. GOYETTE,TRUSTEESNO. 338 – 342

6" RD CONNECT TO EXISTING DRAIN AT R.O.W.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

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DESIGNED BY: B.L. BAKER
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PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFHEAD
SHEET 135 OF 339

ABANDON EXISTING SEWER MANHOLES WHERE SHOWN ABANDONED SEWER MANHOLE TO BE REMOVED AND DISPOSED OF (3 THIS SHEET). CONTRACTOR SHALL FILL ABANDONED SEWER MAIN WITH FLOWABLE FILL.

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MATCHLINE TO SHEET 135

MATCHLINE TO SHEET 137

NORTH MAIN STREET – U.S. ROUTE 302

GRANITE STREET

EXIST. R.O.W.

CREAMERY COURT

EAST R.O.W.

WEST R.O.W.

COURT HOUSE

N/F ELIZABETH M. CAMPBELL TRUST FUND NO. 283

N/F PCI PROPERTIES LLC NO. 293 – 297

N/F NORTHFIELD SAVINGS BANK NO. 289 – 291

N/F STATE OF VERMONT NO. 755

N/F FREDERICK G. & MARY D. BASHARA NO. 237 – NO. 241

N/F REAL AUDET NO. 219

N/F COMMUNITY NATIONAL BANK NO. 316

N/F WALL STREET INVESTMENTS NO. 302 – 304 – 306 – 310

N/F CHITTENDEN BANK NO. 292

N/F 276 NORTH MAIN LLC NO. 276

N/F DEPT. OF HOUSING & URBAN DEVELOPMENT NO. 280 – NO. 286

N/F DONALD R. DICK NO. 248

N/F BENOIT PROPERTIES, INC. NO. 224 – NO. 230

N/F AUBUCHON HARDWARE CO. INC. NO. 214

N/F FARMERS DIST. OF BARRE LLC NO. 240

PARK

CHINATOWN RESTURANT

ARMY

SEAN & NORA'S RESTAURANT

DUNKIN DONUTS

BARRE PAINT

EMSLIE'S FLORIST

MALONE PATRICK NO. 315

KEY BANK

GRANITE HILLS CREDIT UNION

NEW DIRECTION FOR BARRE

JEROME THE FLORIST

DEB'S PIT STOP DINER

CUZZIN'S NIGHTCLUB

PARAMOUNT THEATER

BK'S COMPUTIN

ATTORNEY AT LAW

AUBUCHON HARDWARE

SMH 7
6' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 8
6' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 9
6' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 20
SET OVER EXISTING 8" SEWER MAIN
4' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 21
4' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 22
SET OVER EXISTING 6" SEWER MAIN
4' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

SMH 23
SET OVER EXISTING 6" SEWER MAIN
4' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

CORE Ex. SMH AND CONNECT NEW 8" SEWER MAIN AT ELEV. 588.1

NEW 8" SEWER MAIN

NEW 30" SEWER MAIN

NEW 16" WATER MAIN MJ

NEW 8" WATER MAIN MJ

NEW 8" C900 PVC SEWER MAIN

AIR RELEASE

HYDRANT TBR

HYDRANT SEE DETAIL ON SHEET 154

1½" WATER SERVICE

6" NEW SPRINKLER SERVICE

6" SPRINKLER SERVICE SEE DETAIL ON SHEET 154

6" RD CAP INSIDE BUILDING

6" RD CAP AT R.O.W.

6" RD CONNECT TO EXISTING DRAIN AT R.O.W.

8" FUTURE CONNECTION SEE DETAIL ON SHEET 154

INTERCONNECTION
8"x4" TEE, MJ
4"ø DI NIPPLE, VARIABLE LENGTH
4"ø GATE VALVE, MJ
4"ø DI NIPPLE, VARIABLE LENGTH
4"ø 90° BEND, MJ
4"ø DI NIPPLE, VARIABLE LENGTH
4"ø SOLID SLEEVE, MJ
4"ø END CAP, MJ

INTERCONNECTION
8"x6" TEE, MJ
6"ø DI NIPPLE, VARIABLE LENGTH
6"ø GATE VALVE, MJ
6"ø DI NIPPLE, VARIABLE LENGTH
6"ø 90° BEND, MJ
6"ø DI NIPPLE, VARIABLE LENGTH
6"ø SOLID SLEEVE, MJ
6"ø END CAP, MJ

16"x8" TEE, MJ

16"ø 45° BEND, MJ (TYP. OF 2)

16"ø 90° BEND, MJ

CONNECT EXISTING SPRINKLER SERVICE WITH 6"X4" REDUCER, MJ
4"ø DI NIPPLE, VARIABLE LENGTH
4"ø SOLID SLEEVE, MJ

CONNECT EXISTING SPRINKLER SERVICE WITH 6"ø SOLID SLEEVE, MJ

MAINLINE VALVE
16"ø BUTTERFLY VALVE, MJ

16"ø HIGH PRESSURE LINE
INSTALL APPROX 360 LF OF 16" DI CLASS 52 WATER MAIN FOR FUTURE USE. EACH END TO HAVE:
MANUAL AIR RELEASE/CHLORINE INJECTION POINT
16" BUTTERFLY VALVE, MJ
MANUAL AIR RELEASE/CHLORINE INJECTION POINT
16"ø END CAP, MJ

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)

NOTES:
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2. SEE SHEETS 139–143 FOR SEWER MAIN PROFILES
3. SEE SHEETS 151–153 FOR WATER MAIN PROFILES
4. SEE SHEETS 144–149 FOR SEWER SERVICE PROFILES
5. SEE SHEETS 155–157 FOR ROOF DRAIN PROFILES
6. SEE SHEETS 150 AND 154 FOR DETAILS
7. SEE PLANS PROVIDED BY VANASSE HANGEN BRUSTLIN, INC FOR ADDITIONAL INFORMATION, INCLUDING STORM DRAIN AND ROAD IMPROVEMENTS

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FILE NAME: 717014–SITE PLANS
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
WATER AND SEWER SITE PLAN

PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 136 OF 339

ABANDON EXISTING SEWER MANHOLES WHERE SHOWN ABANDONED SEWER MANHOLE TO BE REMOVED AND DISPOSED OF (6 THIS SHEET). CONTRACTOR SHALL FILL ABANDONED SEWER MAIN WITH FLOWABLE FILL.

6" NEW SPRINKLER SERVICE

SMH 10
6' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

CONNECTION
16"x8" TEE, MJ
8"ø DI NIPPLE, VARIABLE LENGTH
8" GATE VALVE, MJ

8" FUTURE CONNECTION
SEE DETAIL SHEET 154

SMH 25
SET OVER EXISTING 6" SEWER MAIN
4' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

CONTRACTOR SHALL FURNISH AND INSTALL WATER METERS FOR ALL CUSTOMERS IN PROJECT AREA. SEE SHEET 154 FOR DETAIL AND TABLE FOR METER AND SERVICE SIZE. INSTALLATION SHALL BE DONE BY VERMONT LICENSED PLUMBER. CITY OF BARRE TO DIRECT LOCATIONS FOR METER AND REMOTE TOUCH-READ PADS.

INTERCONNECTION
CONNECT TO EXISTING 1" WATER
w/1½" CORPORATION, COPPER
AND CURB STOP

INSTALL 6" CLEAN OUT AT R.O.W. ON SEWER SERVICE

SMH 26
SET OVER EXISTING 6" SEWER MAIN
4' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

8" FUTURE CONNECTION
SEE DETAIL ON SHEET 154

INTERCONNECTION
8"x4" TEE, MJ
4"ø DI NIPPLE, VARIABLE LENGTH
4"ø GATE VALVE, MJ
4"ø DI NIPPLE, VARIABLE LENGTH
4"ø 90° BEND, MJ
4"ø DI NIPPLE, VARIABLE LENGTH
4"ø SOLID SLEEVE, MJ
4"ø END CAP, MJ

N/F REAL AUDET NO. 219

N/F STEPHEN R. LEWINSTEIN NO. 213

N/F CENTRAL VERMONT ARTS, LIMITED PARTNERSHIP NO. 199 – NO. 205

N/F JAMES E. JR. & COLETE C. DENTE NO. 185–189

N/F CHRISTOPHER A. & PATRICIA L. BELTRAMI NO. 171

N/F EDWARD J. & MARY G. CORRIGAN NO. 159

N/F J.&L. REALTY LLC NO. 143–151

N/F CITY OF BARRE NO. 135

N/F DANIEL P. & JEAN A. GARR NO. 123–131

N/F DAVID ROBERT COPPING GEORGE H. WILSON, III WILLIAM C. CROWTHER, III NO. 103–119

1½" WATER SERVICE

6" RD CAP INSIDE BUILDING CONNECTED TO EXISTING

4" WATER SERVICE

8" SPRINKLER

6" NEW SPRINKLER SERVICE

6" RD CAP INSIDE BUILDING

1½" WATER SERVICE

NEW 8" C900 PVC SEWER MAIN

6" RD CAP INSIDE BUILDING

NEW 8" WATER MAIN MJ

SMH 11
6' ID PRECAST CONCRETE MANHOLE
SEE DETAIL SHEET 150

4" RD CAP INSIDE BUILDING

6" RD CAP INSIDE BUILDING CONNECTED TO EXISTING

NEW 8" C900 PVC SEWER MAIN

1½" WATER SERVICE

NEW 30" SEWER MAIN

NEW 16" WATER MAIN MJ

HYDRANT TBR

COINS AND HOBBIES

VACANT

STUDIO PLACE ARTS

AARON'S FURNITURE

CHEAP KIDS II

ALLSTATE

BELTRAMI'S FOTO SHOP

UNICEL

LACE

FAMILY DOLLAR

BARRE SENIOR CITIZEN CENTER

PLANET ROCK

GOODFELLOWS

A.G. EDWARDS

MERCHANT'S

EXIST. R.O.W.

NORTH MAIN STREET R.O.W.

MATCHLINE TO SHEET 136

MATCHLINE TO SHEET 138

8"ø 11° BEND, MJ

SEE FUTURE HYDRANT NOTE BELOW

NEW 8" WATER MAIN MJ

N/F AUBUCHON REALTY CO. INC. NO. 214

1½" WATER SERVICE

BOISVERT'S SHOE REPAIR

N/F ERNEST E. & BETTY M. BOISVERT NO. 200

1½" WATER SERVICE

6" RD CAP INSIDE BUILDING

6" RD CAP INSIDE BUILDING

HYDRANT SEE DETAIL ON SHEET 154

6" NEW SPRINKLER SERVICE

1½" WATER SERVICE

N/F CARROLL A. NELSON NO. 188–190–194

NELSON TRUE VALUE

ATTORNEY'S AT LAW

6" RD CAP INSIDE BUILDING

6" RD CAP INSIDE BUILDING

1½" WATER SERVICE

6" NEW SPRINKLER SERVICE

N/F ROBERT A. & LINDA S. NELSON NO. 180–186

6" SPRINKLER SERVICE SEE DETAIL ON SHEET 154

POOLMART

VINTAGE LADIES

GABLE WARE-HOUSE INC NO. 165

N/F QUINLEN BLOCK ASSOCIATES NO. 170–174

SPARKLES GIFTS & ANTIQUES

1½" WATER SERVICE

6" RD CAP INSIDE BUILDING

6" NEW SPRINKLER SERVICE

1½" WATER SERVICE

6" RD CAP INSIDE BUILDING

ELECTROLUX

SIMPLY DELICIOUS

N/F R YORK INC NO. 158–165

MAINLINE VALVE 16"ø BUTTERFLY VALVE, MJ

1½" WATER SERVICE

6" SPRINKLER SERVICE SEE DETAIL ON SHEET 154

CAP SPRINKLER SERVICE INSIDE FOUNDATION (TYP. OF 2)

BARRE BOOKS

HYDRANT TBR

SIDEWALK VILLAGE

N/F LORI LACROIX NO. 136–140

HYDRANT SEE DETAIL ON SHEET 154

6" NEW SPRINKLER SERVICE

LAST TIME AROUND

WOBBER'S JEWELRY

N/F MAGNAN PROPERTIES LLC NO. 122–126

6" NEW SPRINKLER SERVICE

1½" WATER SERVICE

N/F BOLSTER HOUSE, LLC NO. 114–118

16"x8" TEE, MJ

6" RD CAP INSIDE BUILDING

NO. 9

6" RD CAP INSIDE BUILDING

6" NEW SPRINKLER SERVICE

LUBIANA'S BRIDAL

CAPITAL WORKOUT EXPRESS

N/F GENDRON, JOAN NO. 100–104

EXILE

N/F DAVID & SANDRA E. THURSTON NO. 94

NEW 8" C900 PVC SEWER MAIN

BEND
8"ø 90° BEND, MJ

1½" WATER SERVICE

16"ø HIGH PRESSURE LINE
INSTALL APPROX 360 LF OF 16" DI CLASS 52 WATER MAIN FOR FUTURE USE. EACH END TO HAVE:
MANUAL AIR RELEASE/CHLORINE INJECTION POINT
16" BUTTERFLY VALVE, MJ
MANUAL AIR RELEASE/CHLORINE INJECTION POINT
16"ø END CAP, MJ

REMOVE AND REPLACE EXISTING BOX CULVERT SEE DETAILS ON SHEET 158

8" FUTURE CONNECTION SEE DETAIL ON SHEET 154

FUTURE HYDRANT
16"x6" TEE, MJ
6"ø NIPPLE, VARIABLE LENGTH
6"ø GATE VAVLE, MJ
6"ø NIPPLE, VARIABLE LENGTH
6"ø END CAP, MJ

SMH 24
REMOVE EXISTING SMH AND REPLACE WITH NEW 4' ID PRECAST CONCRETE MANHOLE
CONNECT EXISTING 4" SANITARY SEWERS WITH FLEXIBLE COUPLINGS. SEE DETAIL SHEET 150

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

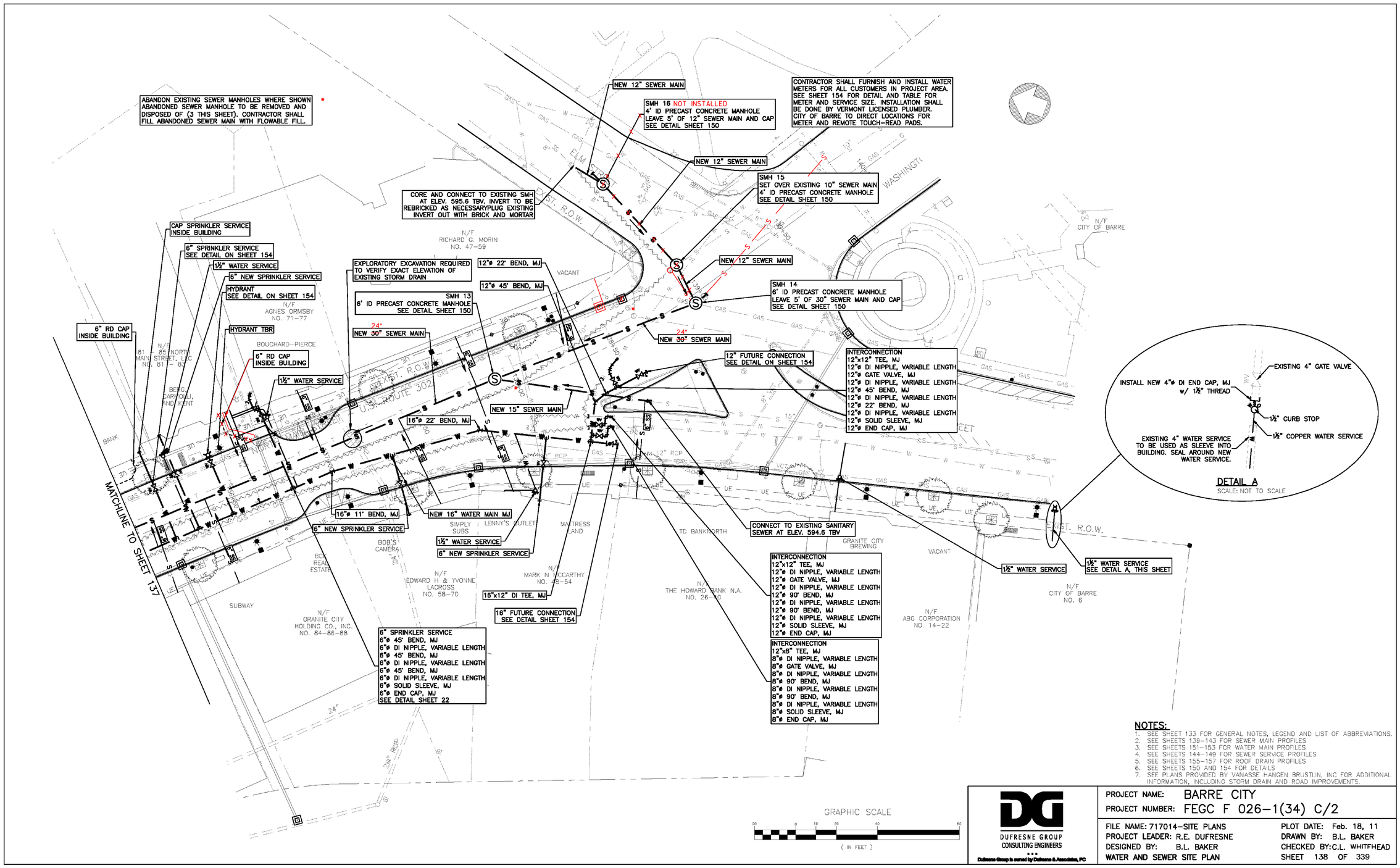
NOTES:
1. SEE SHEET 133 FOR GENERAL NOTES, LEGEND AND LIST OF ABBREVIATIONS.
2. SEE SHEETS 139–143 FOR SEWER MAIN PROFILES
3. SEE SHEETS 151–153 FOR WATER MAIN PROFILES
4. SEE SHEETS 144–149 FOR SEWER SERVICE PROFILES
5. SEE SHEETS 155–157 FOR ROOF DRAIN PROFILES
6. SEE SHEETS 150 AND 154 FOR DETAILS
7. SEE PLANS PROVIDED BY VANASSE HANGEN BRUSTLIN, INC FOR ADDITIONAL INFORMATION, INCLUDING STORM DRAIN AND ROAD IMPROVEMENTS .

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SITE PLANS
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
WATER AND SEWER SITE PLAN

PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 137 OF 339



NOTES:

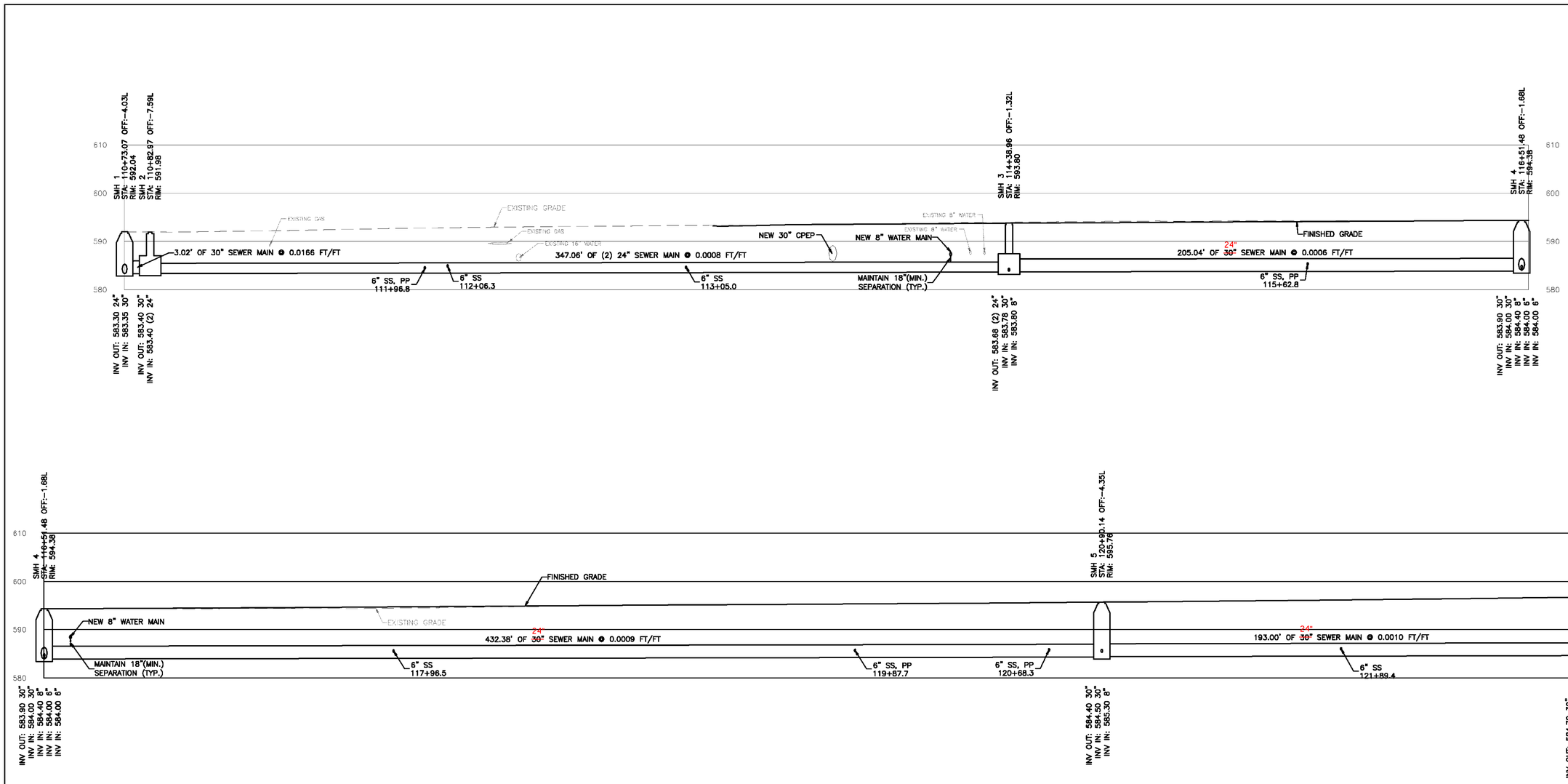
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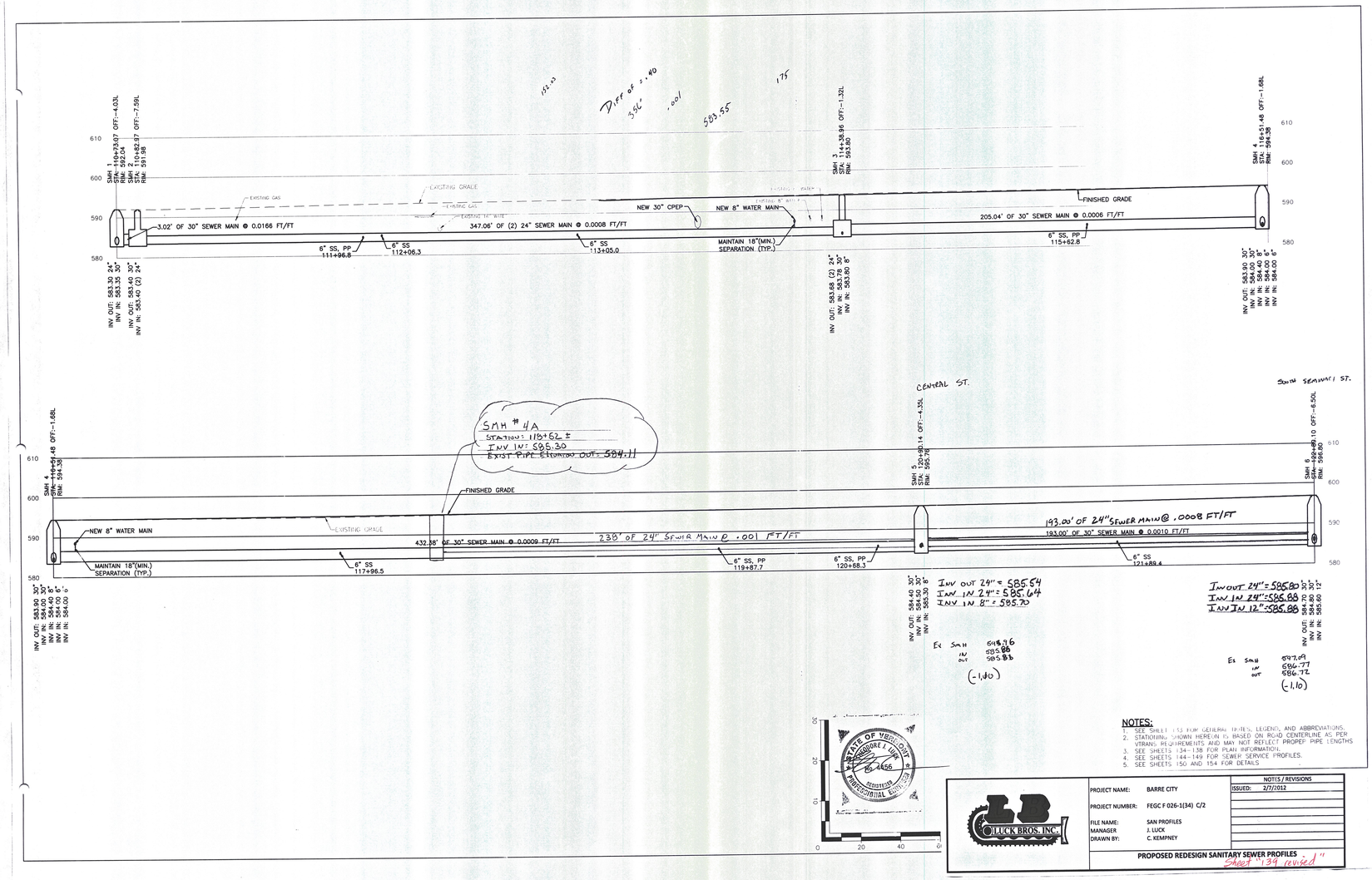
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CONSULTING ENGINEERS
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PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–PROFILES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SANITARY SEWER PROFILES

PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFHEAD
SHEET 139 OF 339



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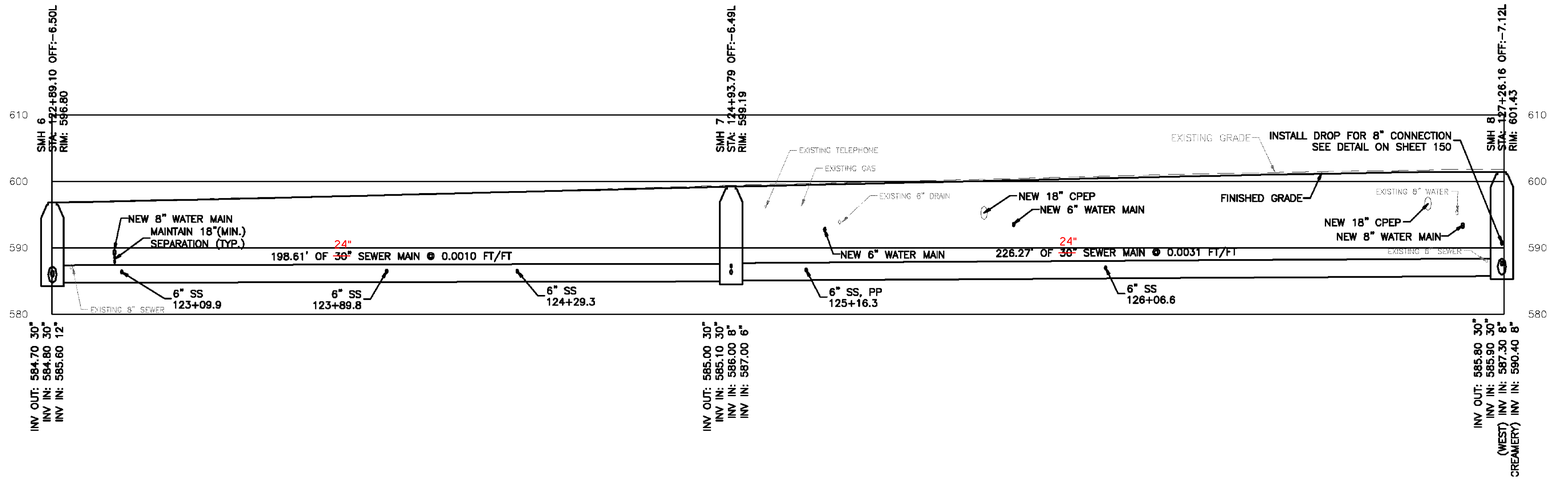
LUCK BROS. INC.

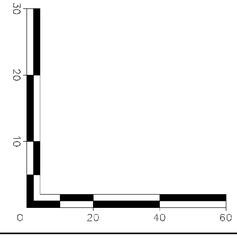
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME:	SAN PROFILES
MANAGER	J. LUCK
DRAWN BY:	C. KEMPNEY

NOTES / REVISIONS
ISSUED: 2/7/2012

PROPOSED REDESIGN SANITARY SEWER PROFILES

Sheet 139 revised





NOTES:

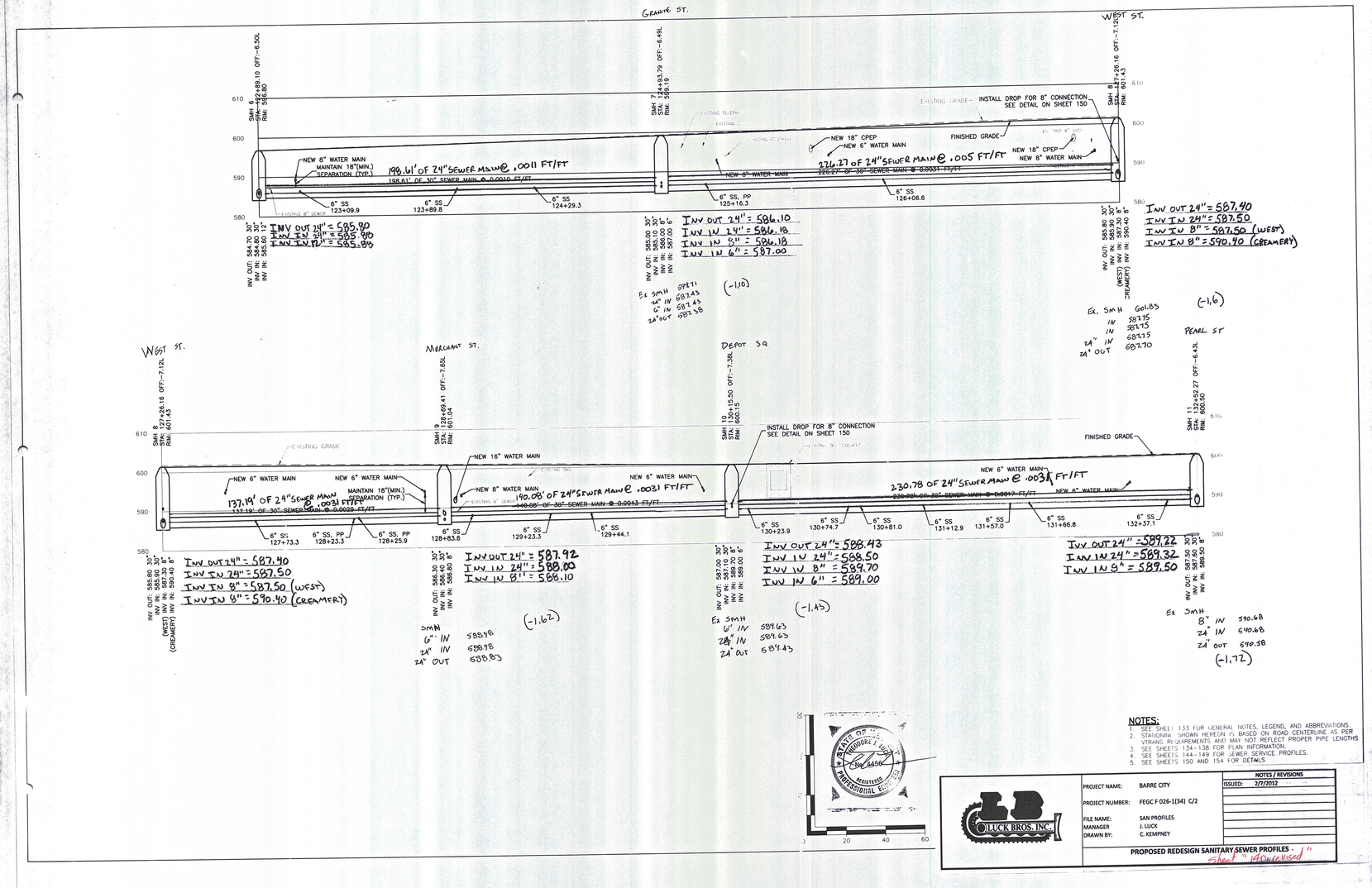
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DUFRESNE GROUP
CONSULTING ENGINEERS
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PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–PROFILES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SANITARY SEWER PROFILES

PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFHEAD
SHEET 140 OF 339



NOTES:

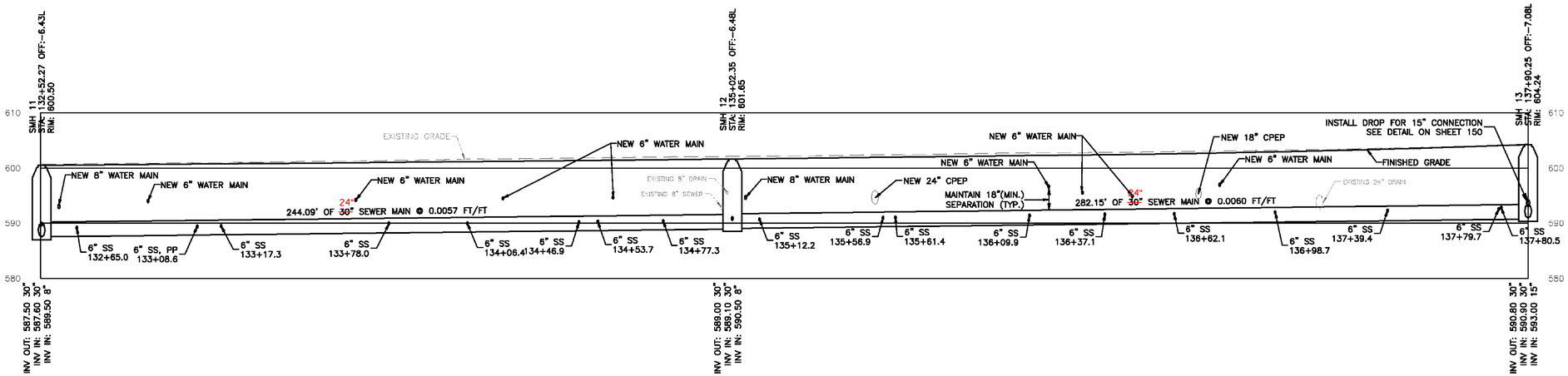
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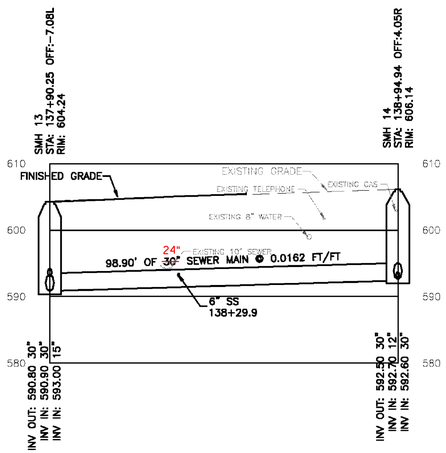
LUCK BROS. INC.

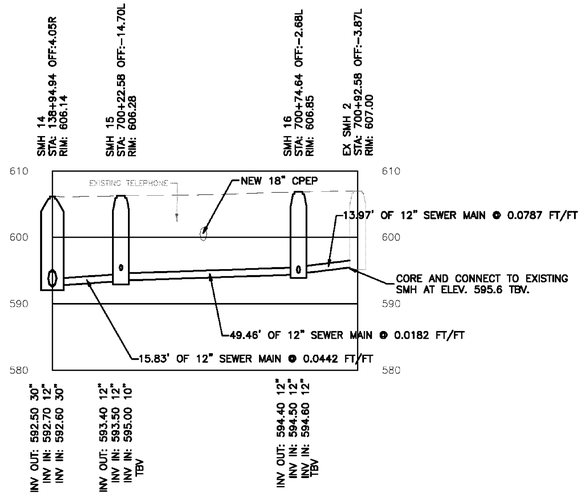
PROJECT NAME:	BARRE CITY	NOTES / REVISIONS
PROJECT NUMBER:	FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
FILE NAME:	SAN PROFILES	
MANAGER	J. LUCK	
DRAWN BY:	C. KEMPNEY	

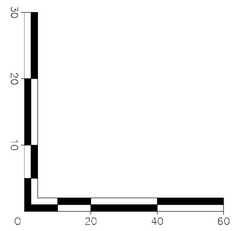
PROPOSED REDESIGN SANITARY SEWER PROFILES

Sheet 140 Revised 1"









NOTES:

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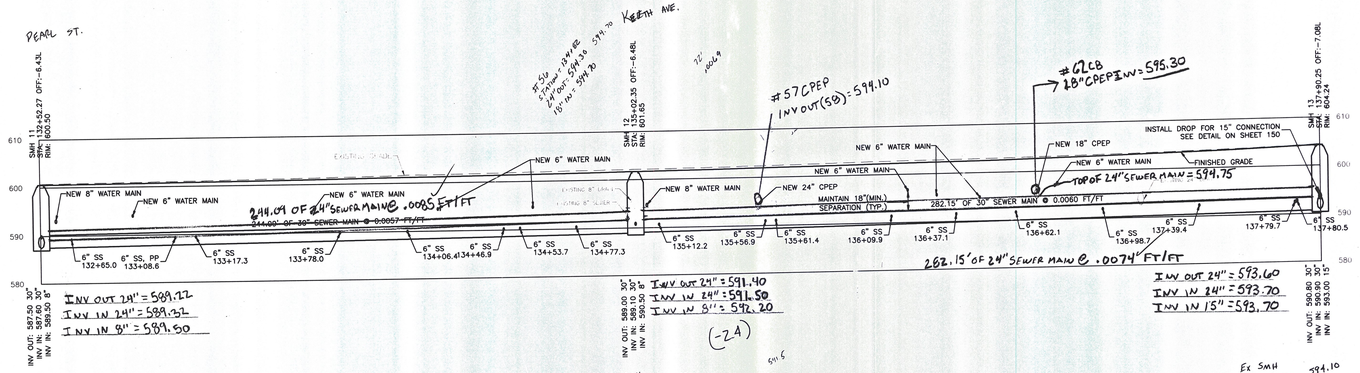
DUFRESNE GROUP
CONSULTING ENGINEERS
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PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–PROFILES	PLOT DATE: Feb. 18, 11
PROJECT LEADER: R.E. DUFRESNE	DRAWN BY: B.L. BAKER
DESIGNED BY: B.L. BAKER	CHECKED BY: C.L. WHITFHEAD
SANITARY SEWER PROFILES	SHEET 141 OF 339

PEARL ST.

KEITH AVE.



INV OUT 24" = 589.22
INV IN 24" = 589.32
INV IN 8" = 589.50

INV OUT 24" = 591.40
INV IN 24" = 591.50
INV IN 5" = 592.20

(-2.9)

INV OUT 24" = 593.60
INV IN 24" = 593.70
INV IN 15" = 593.70

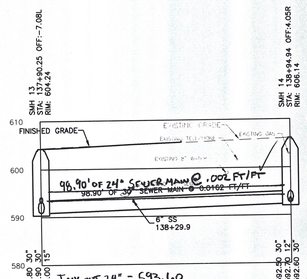
Ex SMH
8" IN 592.47
24" IN 592.47
24" OUT 592.42

Ex SMH
10" IN 594.10
24" IN 594.06, 607.9
24" OUT 594.06

(-2.8)

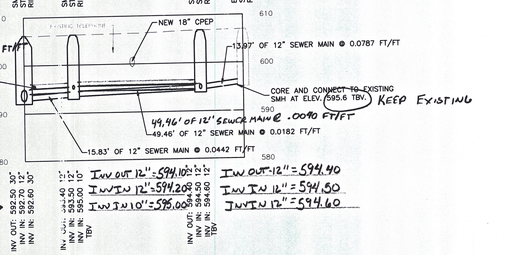
#57 CPEP
INV OUT(58): 594.10

#62 CB
18" CPEP INV = 595.30



INV OUT 24" = 593.60
INV IN 24" = 593.70
INV IN 15" = 593.70

INV OUT 24" = 593.90
INV IN 18" = 594.00
INV IN 24" = 594.00 (FUTURE)

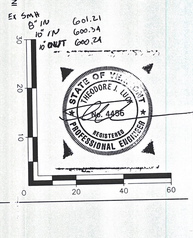


INV OUT 12" = 594.40
INV IN 12" = 594.50
INV IN 12" = 594.60

INV IN 10" = 594.20
INV IN 10" = 594.00

Ex SMH
8" IN 601.21
10" IN 600.39
10" OUT 600.24

160.65



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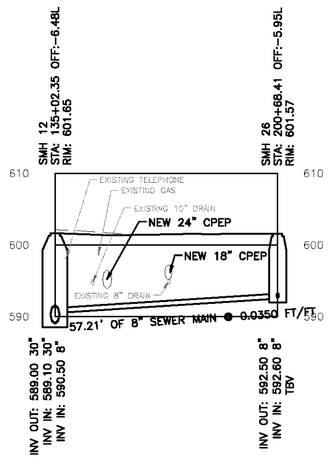
LUCK BROS. INC.

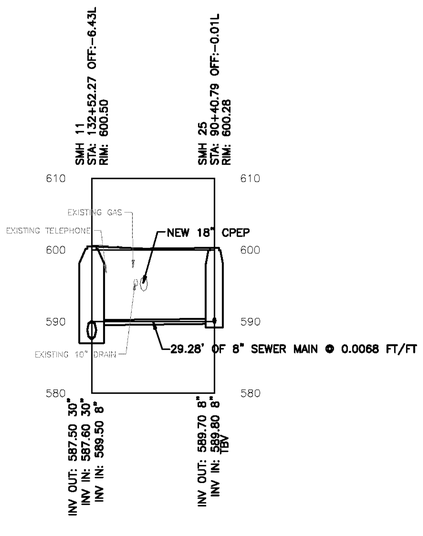
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME:	SAN PROFILES
MANAGER	J. LUCK
DRAWN BY:	C. KEMPNEY

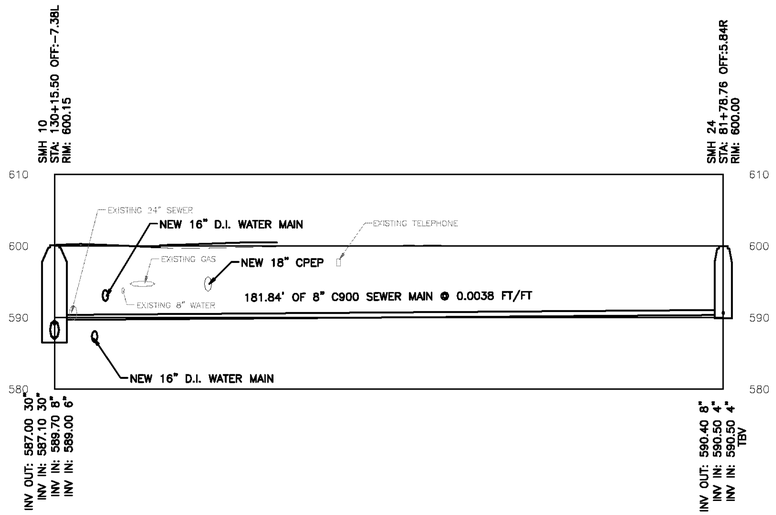
NOTES / REVISIONS	
ISSUED:	2/7/2012

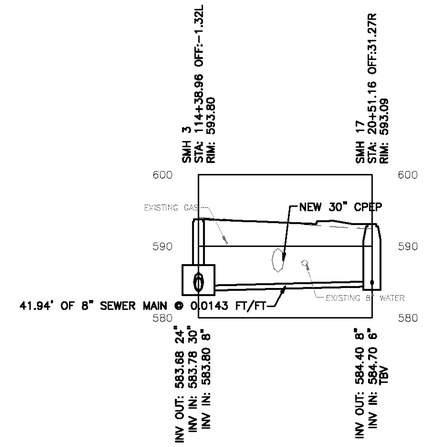
PROPOSED REDESIGN SANITARY SEWER PROFILES

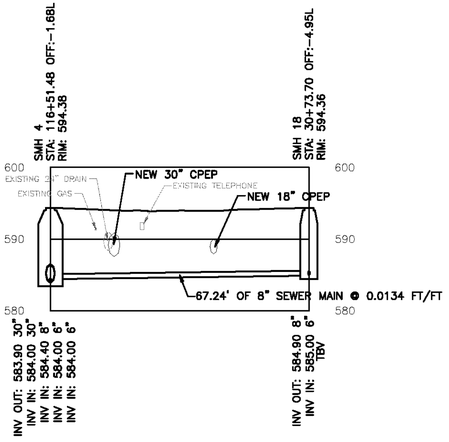
Sheet 141 revised

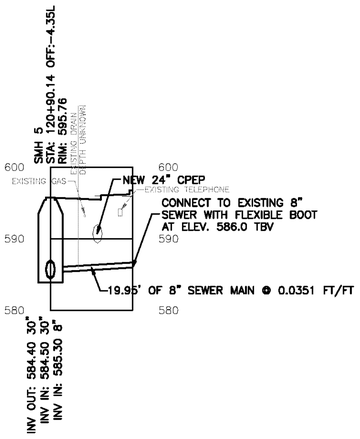


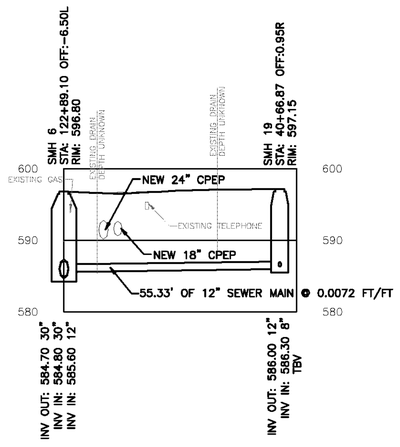


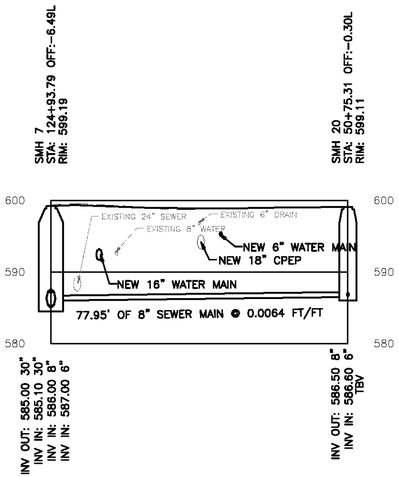


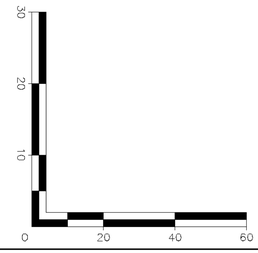












NOTES:

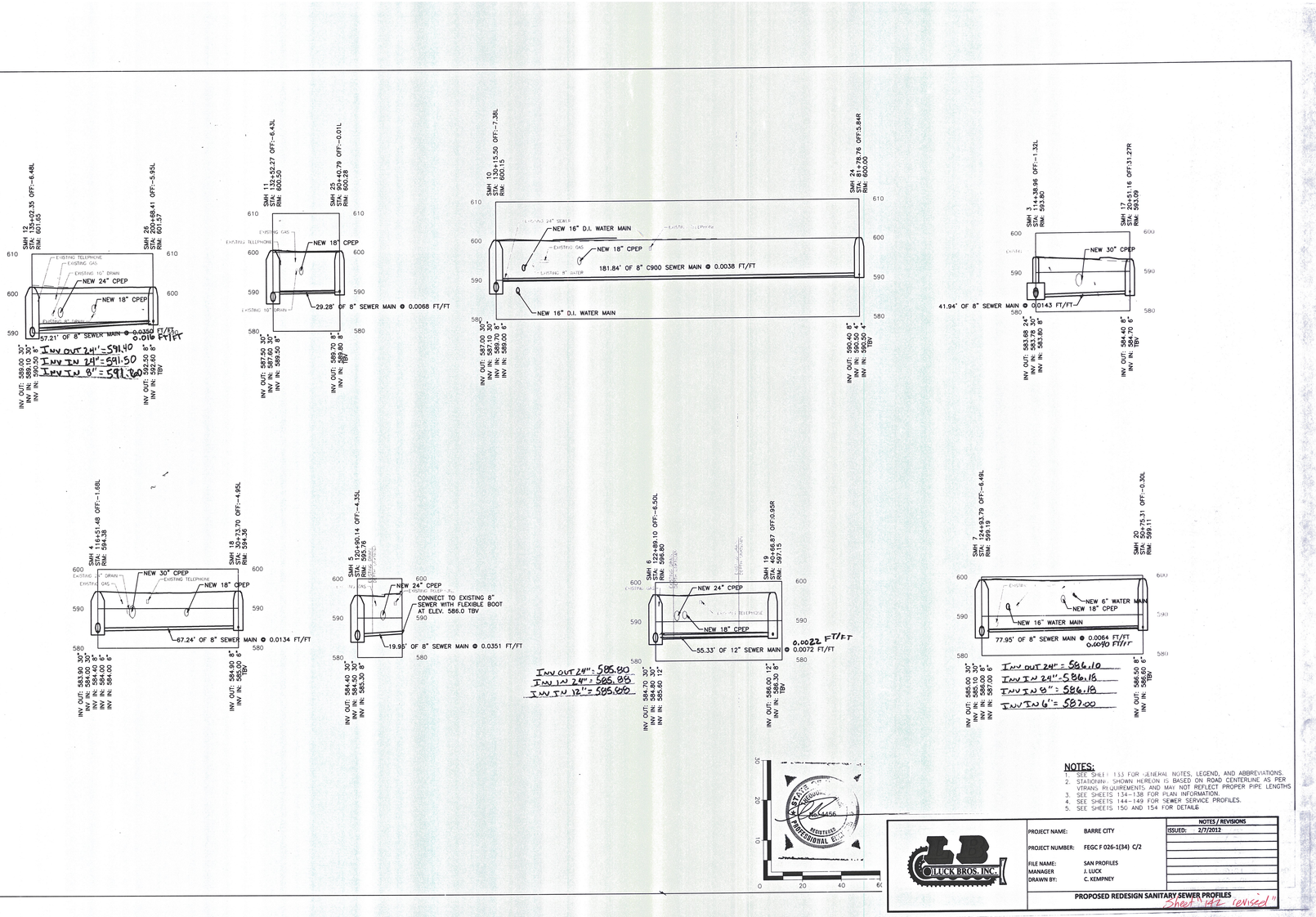
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5. SEE SHEETS 150 AND 154 FOR DETAILS

DUFRESNE GROUP
CONSULTING ENGINEERS
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PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–PROFILES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SANITARY SEWER PROFILES

PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFIHEAD
SHEET 142 OF 339



NOTES:

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STATE OF VERMONT — JOHN E. LUCK — No. 4456 — REGISTERED PROFESSIONAL ENGINEER

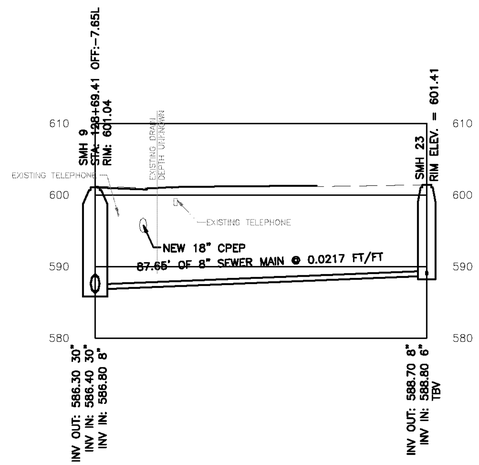
LUCK BROS. INC.

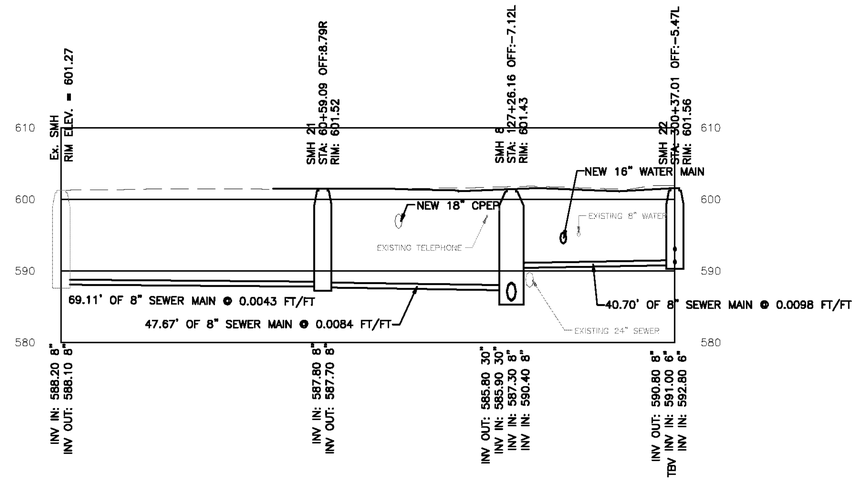
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MANAGER	J. LUCK
DRAWN BY:	C. KEMPNEY

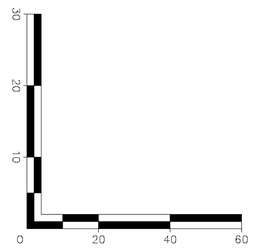
NOTES / REVISIONS
ISSUED: 2/7/2012

PROPOSED REDESIGN SANITARY SEWER PROFILES

Sheet Title revised"







NOTES:

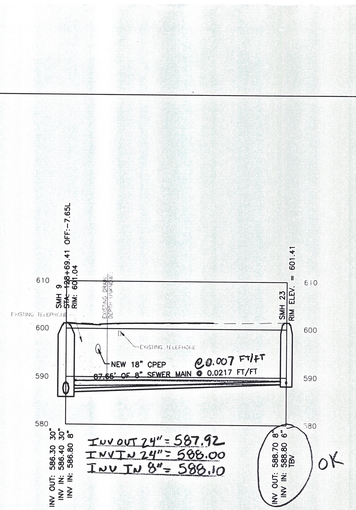
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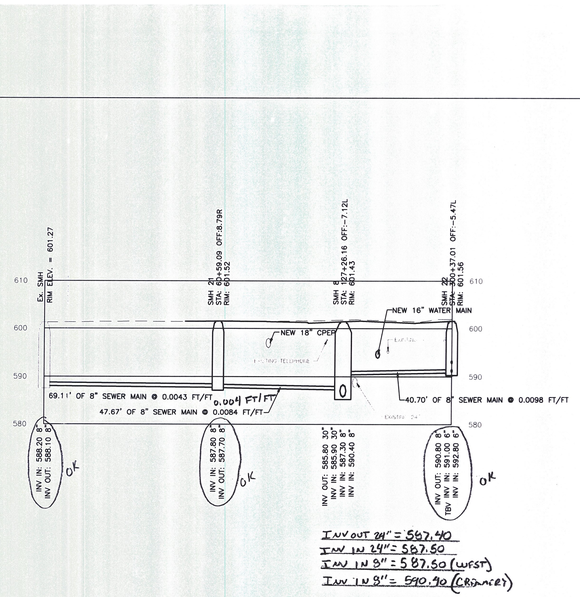
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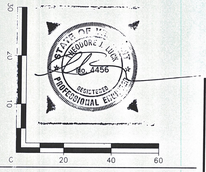
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FILE NAME: 717014–PROFILES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SANITARY SEWER PROFILES

PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 143 OF 339







NOTES:

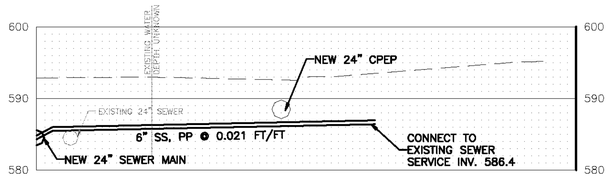
1. SEE SHEET 133 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. STATIONING SHOWN HEREON IS BASED ON ROAD CENTERLINE AS PER VTRANS REQUIREMENTS AND MAY NOT REFLECT PROPER PIPE LENGTHS
3. SEE SHEETS 134-138 FOR PLAN INFORMATION.
4. SEE SHEETS 144-149 FOR SEWER SERVICE PROFILES.
5. SEE SHEETS 150 AND 154 FOR DETAILS.

LUCK BROS. INC.

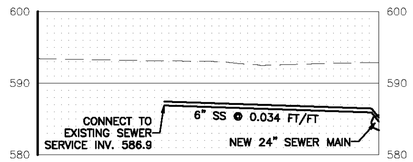
PROJECT NAME:	BARRE CITY	NOTES / REVISIONS
PROJECT NUMBER:	FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
FILE NAME:	SAN PROFILES	
MANAGER	J. LUCK	
DRAWN BY:	C. KEMPNEY	

PROPOSED REDESIGN SANITARY SEWER PROFILES

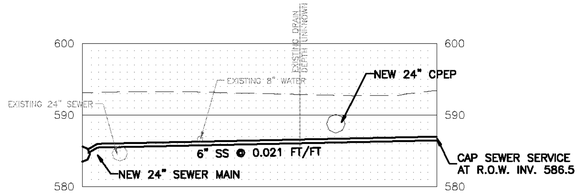
Sheet 143 - revised



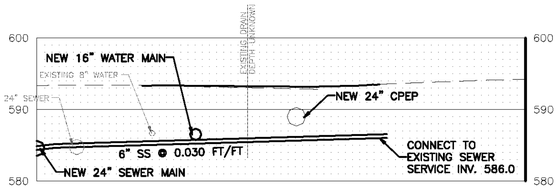
111+97
386 NORTH MAIN STREET



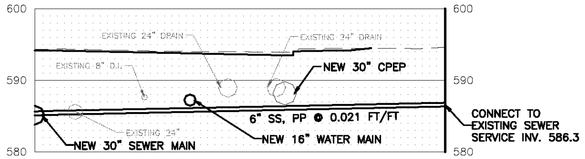
112+06
395 NORTH MAIN STREET



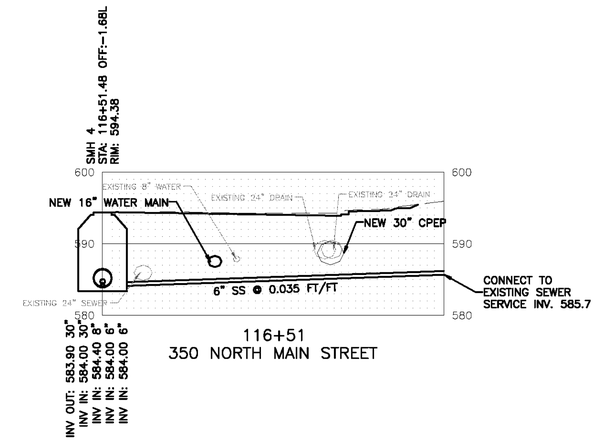
112+62
372 NORTH MAIN STREET



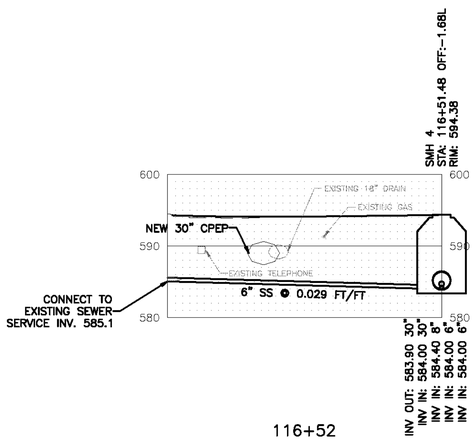
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378 NORTH MAIN STREET



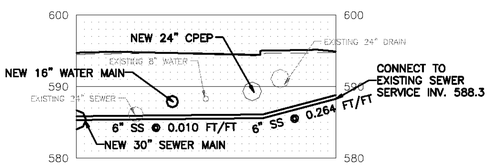
115+63
362 NORTH MAIN STREET



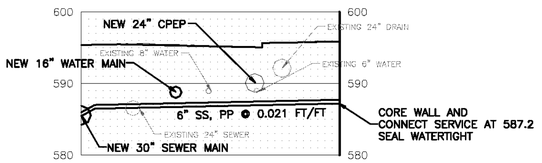
116+51
350 NORTH MAIN STREET



116+52
377 NORTH MAIN STREET



117+97
338–342 NORTH MAIN STREET



119+88
328–330–332 NORTH MAIN STREET

GRAPHIC SCALE

1 0 5 10 20 40

(IN FEET)

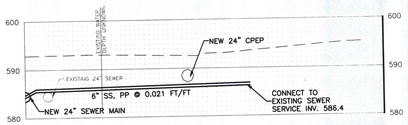
DUFRESNE GROUP
CONSULTING ENGINEERS

Dufresne Group is owned by Dufresne & Associates, PC

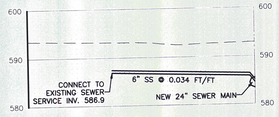
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SEWER SERVICE PROFILES

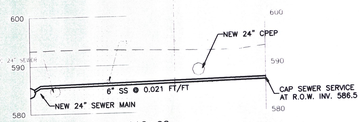
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFIELD
SHEET 144 OF 339



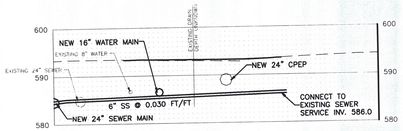
111+97
386 NORTH MAIN STREET



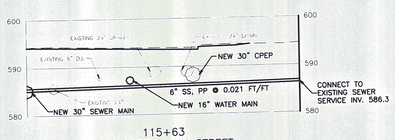
112+06
395 NORTH MAIN STREET



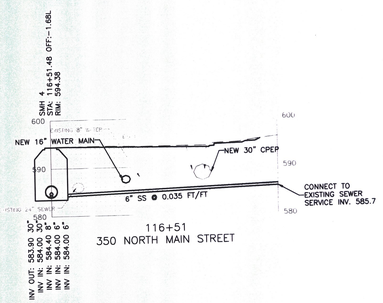
112+62
372 NORTH MAIN STREET



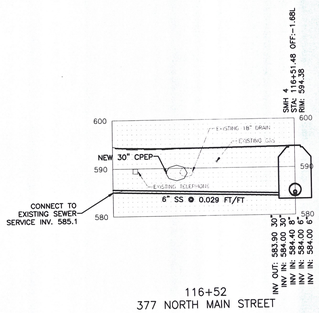
113+05
378 NORTH MAIN STREET



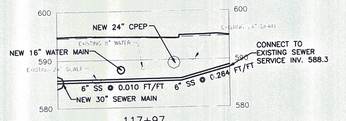
115+63
362 NORTH MAIN STREET



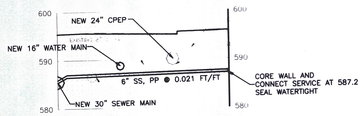
116+51
350 NORTH MAIN STREET



116+52
377 NORTH MAIN STREET



117+97
338–342 NORTH MAIN STREET



119+88
328–330–332 NORTH MAIN STREET

STATE OF VT. THEODORE J. LUCK 6486 REGISTERED PROFESSIONAL ENGINEER

GRAPHIC SCALE
0 5 10 20 40
(IN FEET)

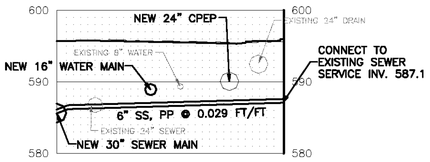
LUCK BROS. INC.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME:	SAN PROFILES
MANAGER	J. LUCK
DRAWN BY:	C. KEMPNEY

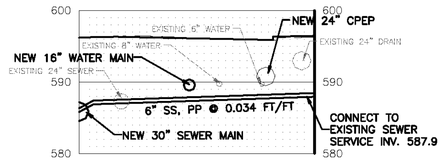
NOTES / REVISIONS
ISSUED: 2/7/2012

PROPOSED REDESIGN SANITARY SEWER PROFILES

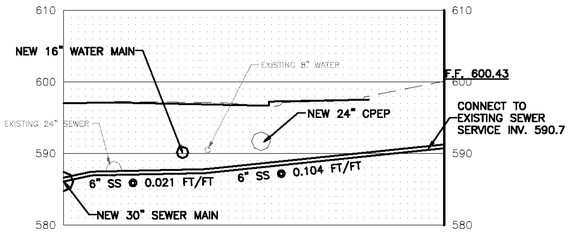
Sheet 14A revised 11



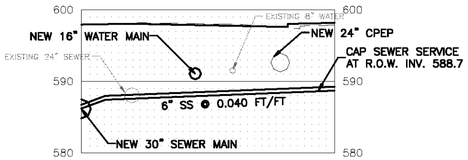
120+68
322 NORTH MAIN STREET



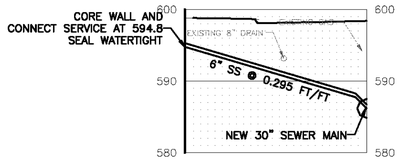
121+90
320 NORTH MAIN STREET



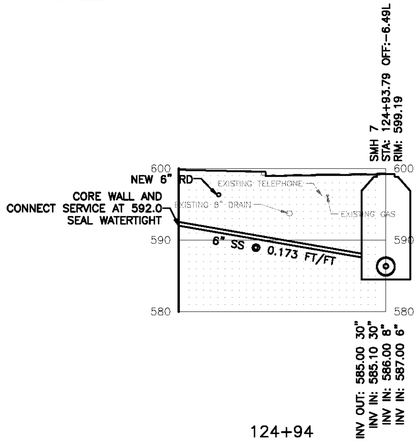
123+10
316 NORTH MAIN STREET



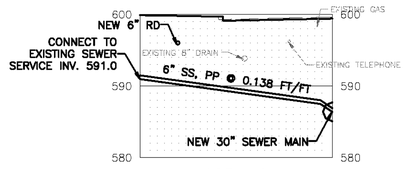
123+90
310 NORTH MAIN STREET



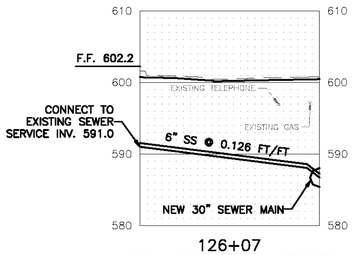
124+29
305 NORTH MAIN STREET



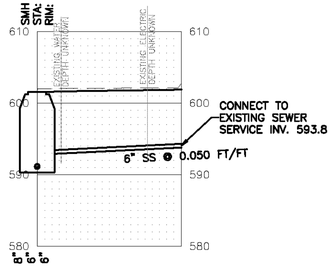
124+94
293–299 NORTH MAIN STREET



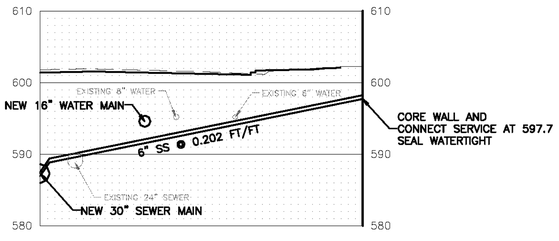
125+16
289–291 NORTH MAIN STREET



126+07
283 NORTH MAIN STREET



126+61
276 NORTH MAIN STREET



127+73
260–266 NORTH MAIN STREET

GRAPHIC SCALE

10 0 5 10 20 40

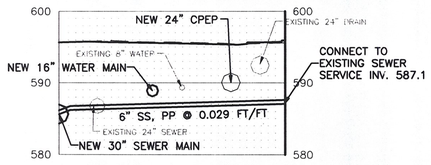
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DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

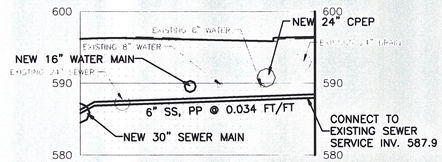
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SEWER SERVICE PROFILES

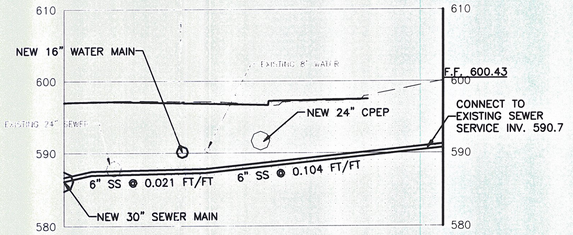
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 145 OF 339



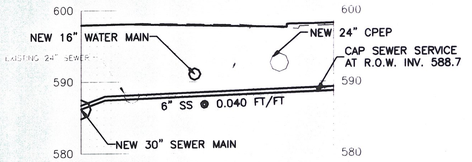
120+68
322 NORTH MAIN STREET



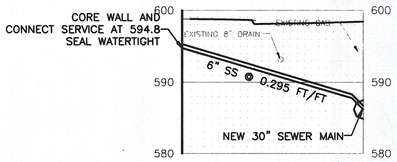
121+90
320 NORTH MAIN STREET



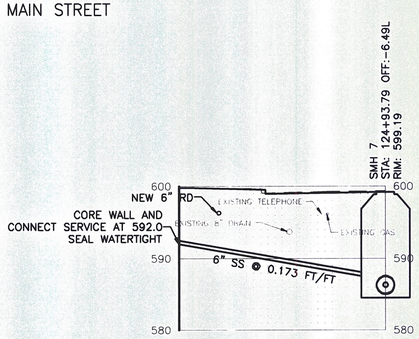
123+10
316 NORTH MAIN STREET



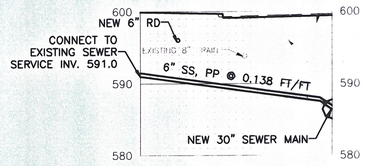
123+90
310 NORTH MAIN STREET



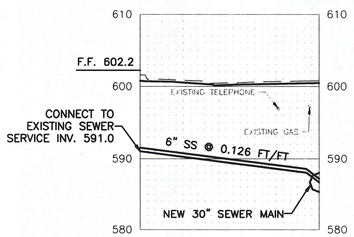
124+29
305 NORTH MAIN STREET



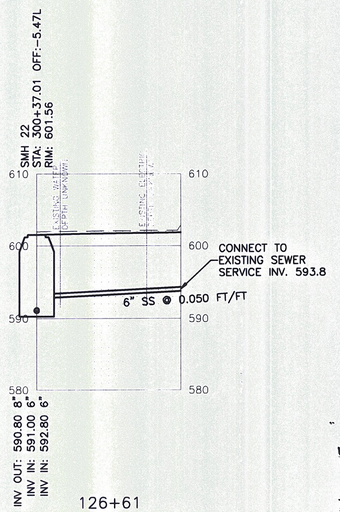
124+94
293–299 NORTH MAIN STREET



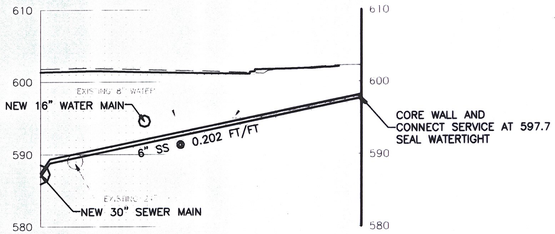
125+16
289–291 NORTH MAIN STREET



126+07
283 NORTH MAIN STREET



126+61
276 NORTH MAIN STREET



127+73
260–266 NORTH MAIN STREET



GRAPHIC SCALE

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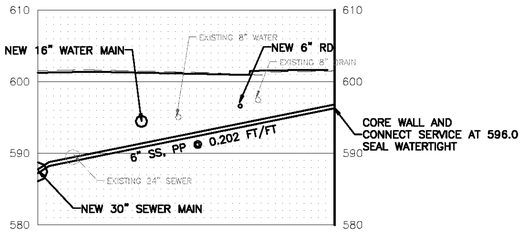
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LUCK BROS. INC.

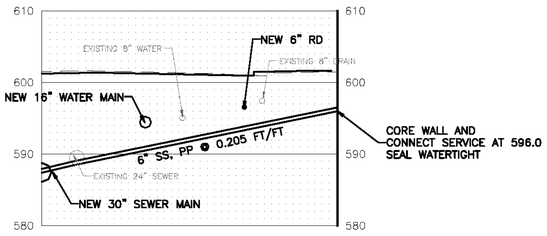
PROJECT NAME:	BARRE CITY	NOTES / REVISIONS
PROJECT NUMBER:	FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
FILE NAME:	SAN PROFILES	
MANAGER	J. LUCK	
DRAWN BY:	C. KEMPNEY	

PROPOSED REDESIGN SANITARY SEWER PROFILES

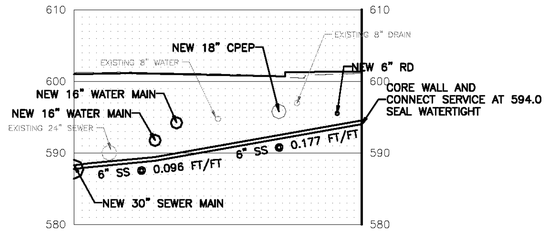
Sheet 145 "REVISED"



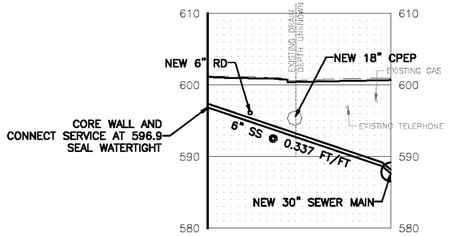
128+23
248 NORTH MAIN STREET



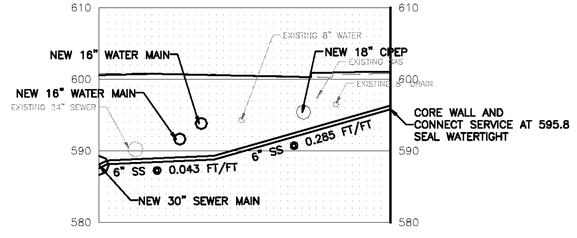
128+26
240 NORTH MAIN STREET



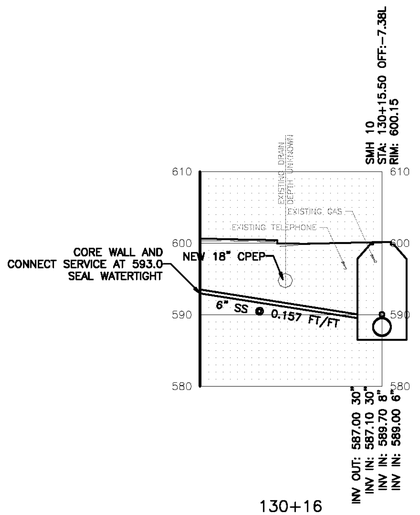
128+84
224–230 NORTH MAIN STREET



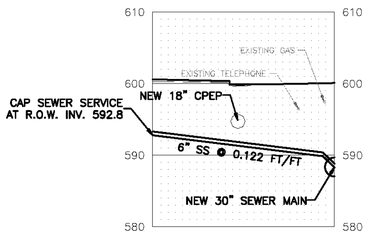
129+23
237–241 NORTH MAIN STREET



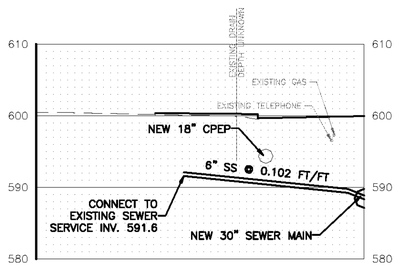
129+44
214 NORTH MAIN STREET



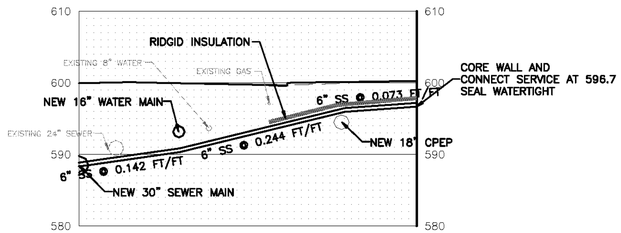
130+16
219 NORTH MAIN STREET



130+24
213 NORTH MAIN STREET



130+75
199–205 NORTH MAIN STREET



130+81
210 NORTH MAIN STREET

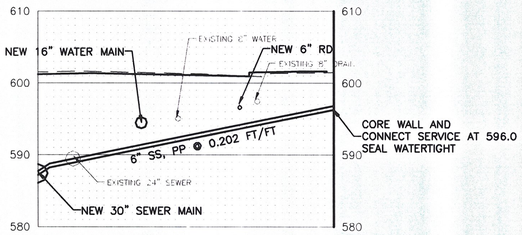
GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Association, PC

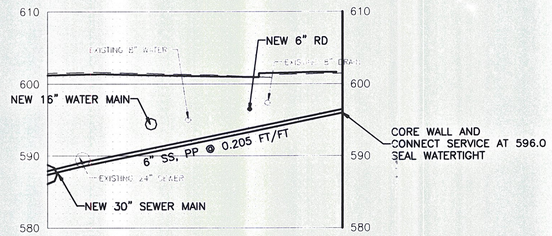
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SEWER SERVICE PROFILES

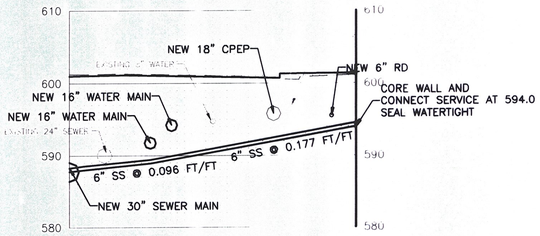
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 146 OF 339



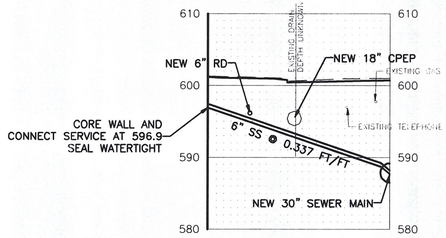
128+23
248 NORTH MAIN STREET



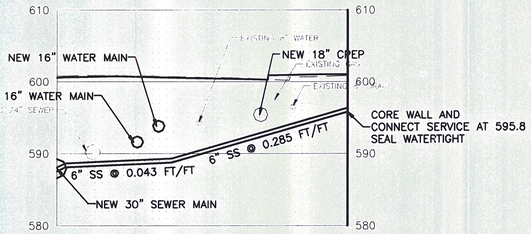
128+26
240 NORTH MAIN STREET



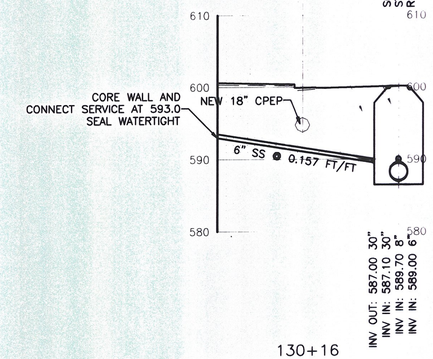
128+84
224–230 NORTH MAIN STREET



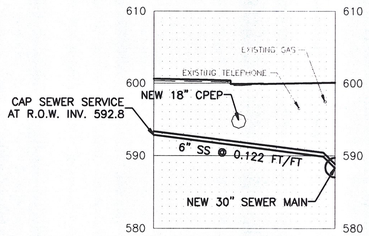
129+23
237–241 NORTH MAIN STREET



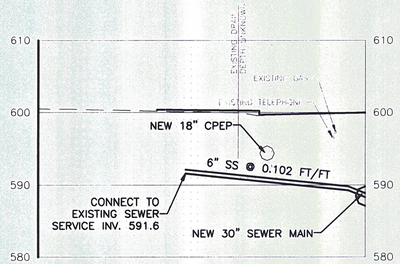
129+44
214 NORTH MAIN STREET



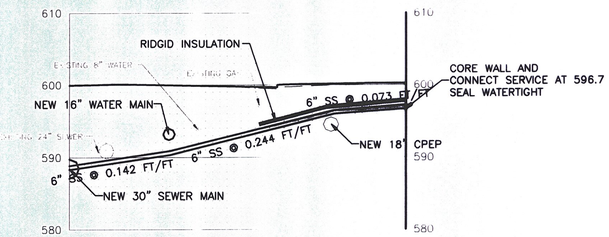
130+16
219 NORTH MAIN STREET



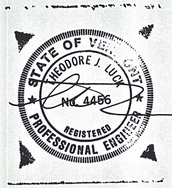
130+24
213 NORTH MAIN STREET



130+75
199–205 NORTH MAIN STREET



130+81
210 NORTH MAIN STREET



GRAPHIC SCALE

10 0 5 10 20

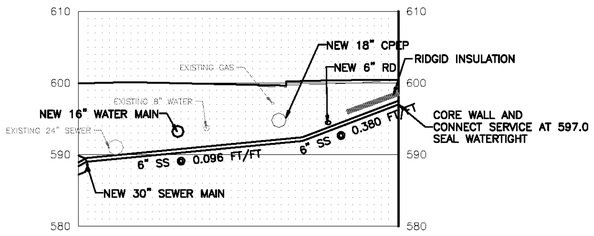
(IN FEET)

LUCK BROS. INC.

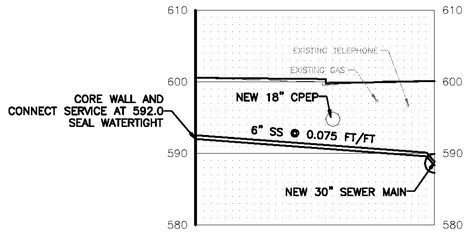
PROJECT NAME:	BARRE CITY	NOTES / REVISIONS
PROJECT NUMBER:	FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
FILE NAME:	SAN PROFILES	
MANAGER	J. LUCK	
DRAWN BY:	C. KEMPNEY	

PROPOSED REDESIGN SANITARY SEWER PROFILES

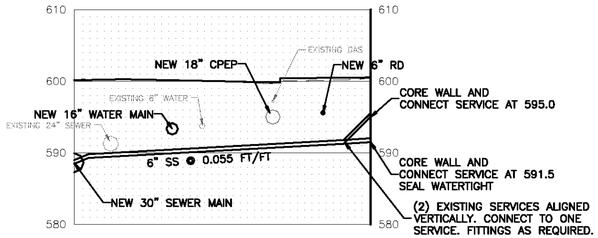
Sheet "16 revised"



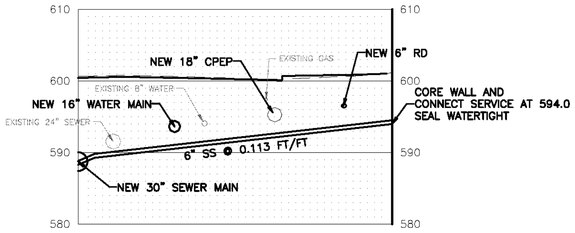
131+13
200 NORTH MAIN STREET



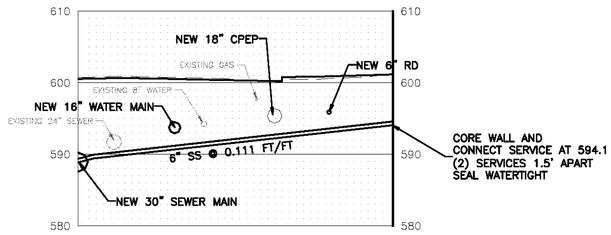
131+57
185–189 NORTH MAIN STREET



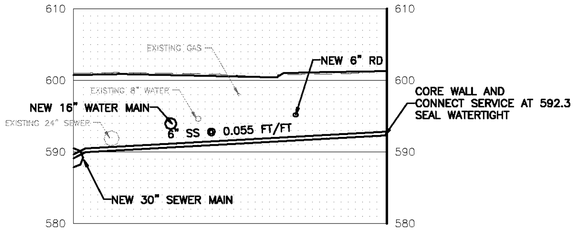
131+67
188–194 NORTH MAIN STREET



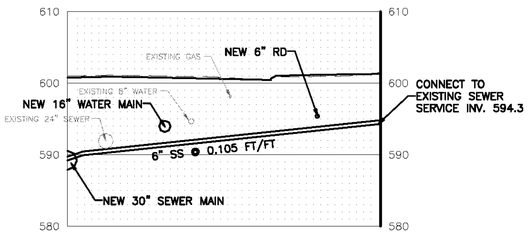
132+37
180–186 NORTH MAIN STREET



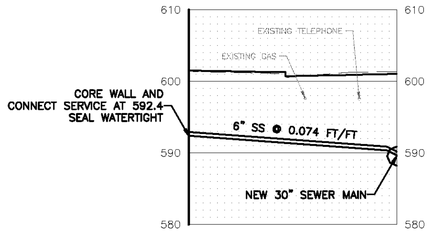
132+65
170–174 NORTH MAIN STREET



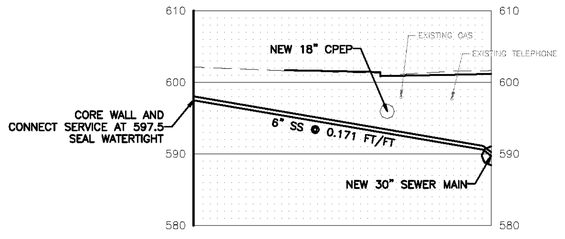
133+09
168 NORTH MAIN STREET



133+17
158–166 NORTH MAIN STREET



133+78
143–151 NORTH MAIN STREET



134+06
135 NORTH MAIN STREET

GRAPHIC SCALE

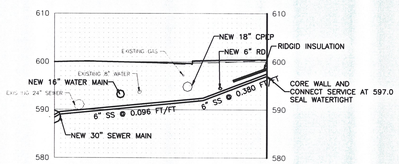


DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

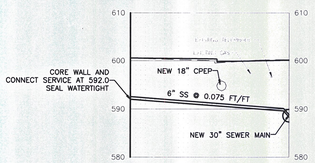
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SEWER SERVICE PROFILES

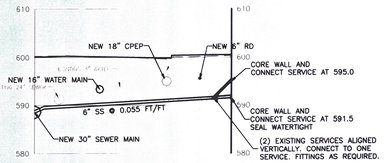
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 147 OF 339



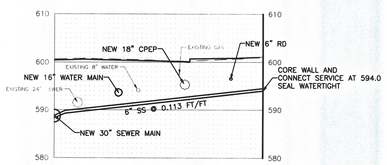
131+13
200 NORTH MAIN STREET



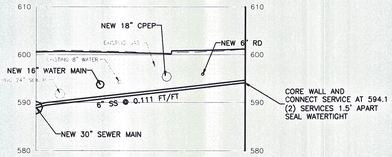
131+57
185–189 NORTH MAIN STREET



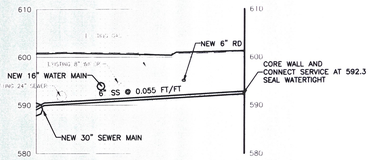
131+67
188–194 NORTH MAIN STREET



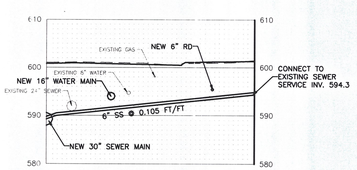
132+37
180–186 NORTH MAIN STREET



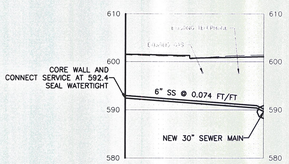
132+65
170–174 NORTH MAIN STREET



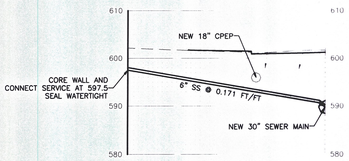
133+09
168 NORTH MAIN STREET



133+17
158–166 NORTH MAIN STREET



133+78
143–151 NORTH MAIN STREET



134+06
135 NORTH MAIN STREET

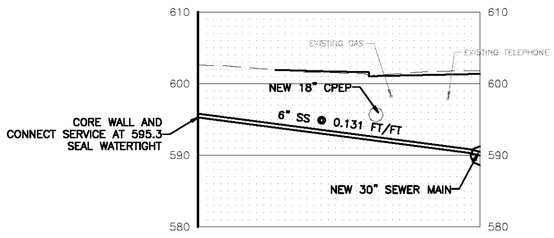
STATE OF VERMONT
THEODORE J. LUCK
No. 5156
REGISTERED
PROFESSIONAL ENGINEER

GRAPHIC SCALE
0 5 10 20
(IN FEET)

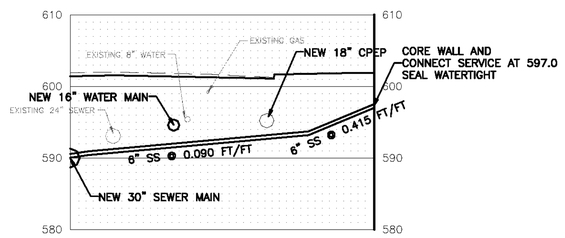
LUCK BROS. INC.

PROJECT NAME:	BARRE CITY	NOTES / REVISIONS
PROJECT NUMBER:	FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
FILE NAME:	SAN PROFILES	
MANAGER	J. LUCK	
DRAWN BY:	C. KEMPNEY	

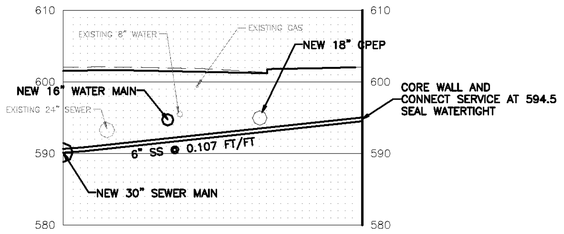
PROPOSED REDESIGN SANITARY SEWER PROFILES
Sheet "47 revised"



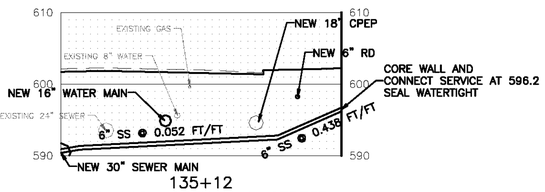
134+47
123–131 NORTH MAIN STREET



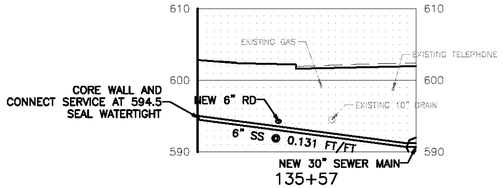
134+54
136–140 NORTH MAIN STREET



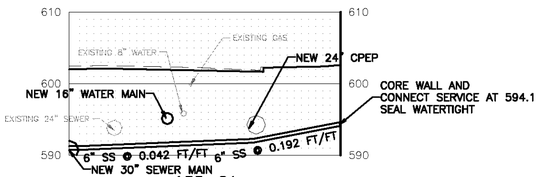
134+77
122–126 NORTH MAIN STREET



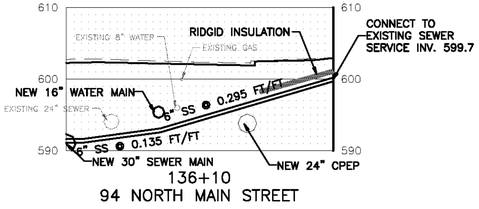
135+12
114–118 NORTH MAIN STREET



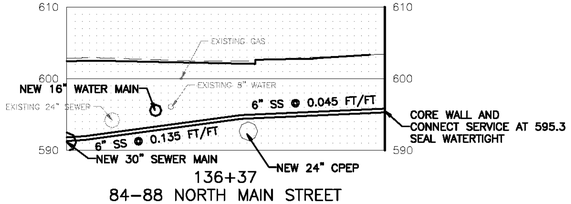
135+57
103–119 NORTH MAIN STREET



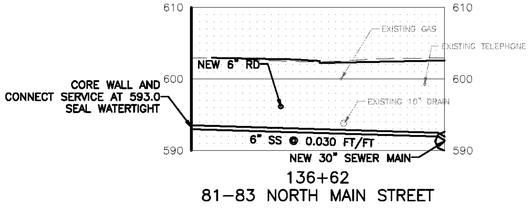
135+61
100 NORTH MAIN STREET



136+10
94 NORTH MAIN STREET



136+37
84–88 NORTH MAIN STREET



136+62
81–83 NORTH MAIN STREET

GRAPHIC SCALE

10 0 5 10 20 40

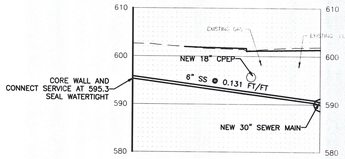
(IN FEET)

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

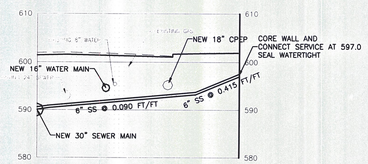
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SEWER SERVICE PROFILES

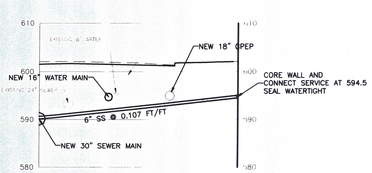
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 148 OF 339



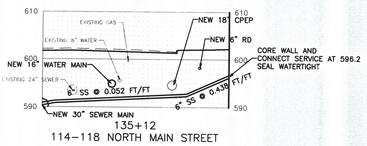
134+47
123–131 NORTH MAIN STREET



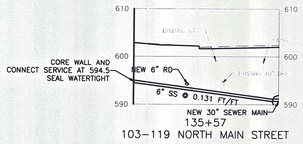
134+54
136–140 NORTH MAIN STREET



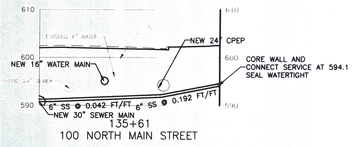
134+77
122–126 NORTH MAIN STREET



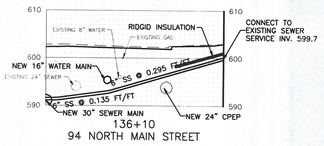
135+12
114–118 NORTH MAIN STREET



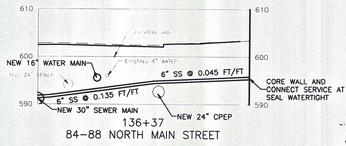
135+57
103–119 NORTH MAIN STREET



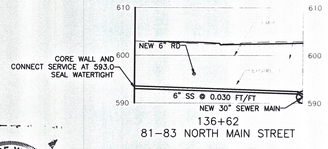
135+61
100 NORTH MAIN STREET



136+10
94 NORTH MAIN STREET



136+37
84–88 NORTH MAIN STREET



136+62
81–83 NORTH MAIN STREET



GRAPHIC SCALE

0 2 5 10 20 40

(IN FEET)

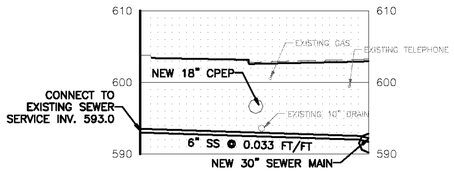
LUCK BROS. INC.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME:	SAN PROFILES
MANAGER	J. LUCK
DRAWN BY:	C. KEMPNEY

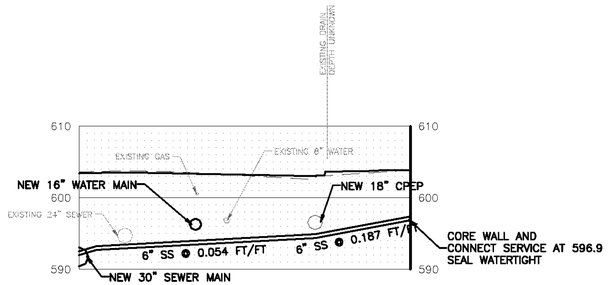
NOTES / REVISIONS	
ISSUED:	2/7/2012

PROPOSED REDESIGN SANITARY SEWER PROFILES

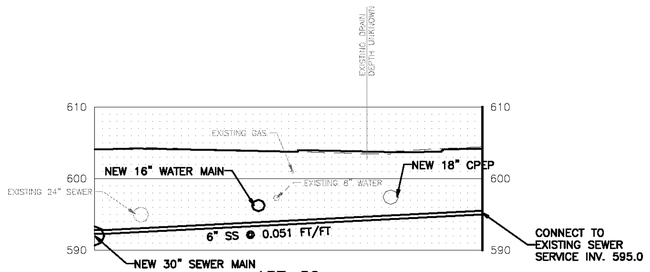
Sheet 14A revised 1"



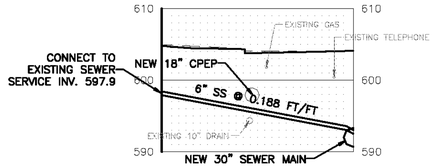
136+99
71–77 NORTH MAIN STREET



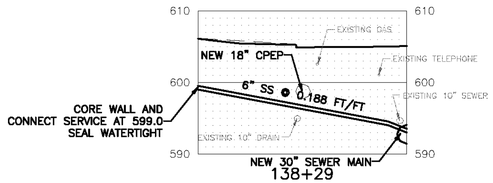
137+39
58–70 NORTH MAIN STREET



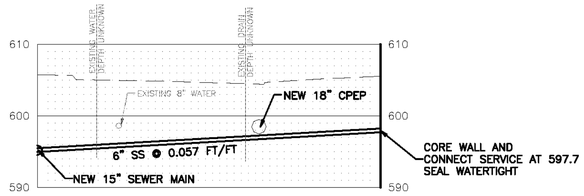
137+80
48–54 NORTH MAIN STREET



137+81
47–59b NORTH MAIN STREET



138+29
47–59a NORTH MAIN STREET



600+13
26–40 NORTH MAIN STREET

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

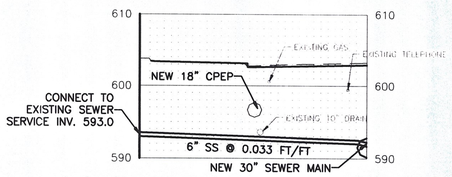
DUFRESNE GROUP
CONSULTING ENGINEERS

Dufresne Group is owned by Dufresne & Associates, PC

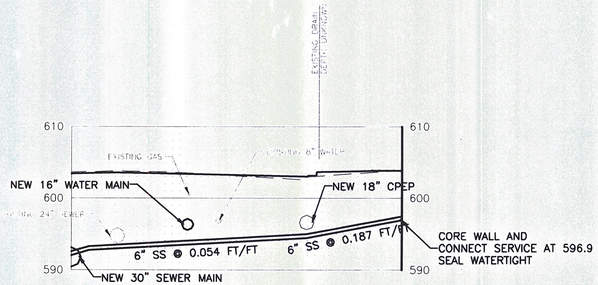
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SEWER SERVICE PROFILES

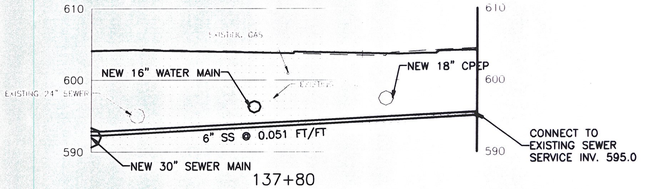
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFHEAD
SHEET 149 OF 339



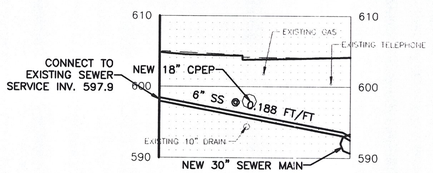
136+99
71–77 NORTH MAIN STREET



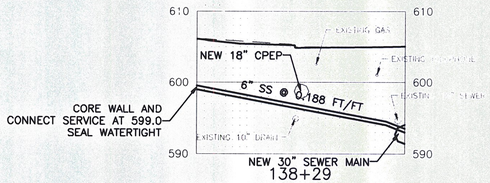
137+39
58–70 NORTH MAIN STREET



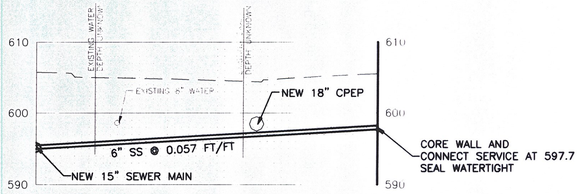
137+80
48–54 NORTH MAIN STREET



137+81
47–59b NORTH MAIN STREET



138+29
47–59a NORTH MAIN STREET



600+13
26–40 NORTH MAIN STREET

STATE OF VERMONT
THEODORE J. LUCK
No. 4456
REGISTERED
PROFESSIONAL ENGINEER

GRAPHIC SCALE

10 0 5 10 20

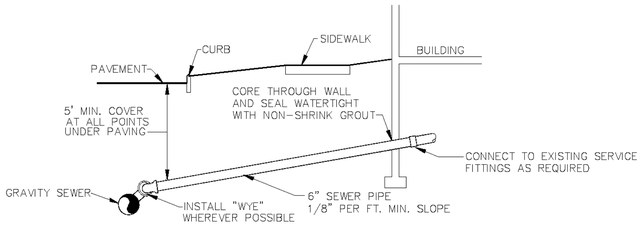
(IN FEET)

LUCK BROS. INC.

PROJECT NAME:	BARRE CITY	NOTES / REVISIONS
PROJECT NUMBER:	FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
FILE NAME:	SAN PROFILES	
MANAGER	J. LUCK	
DRAWN BY:	C. KEMPNEY	

PROPOSED REDESIGN SANITARY SEWER PROFILES

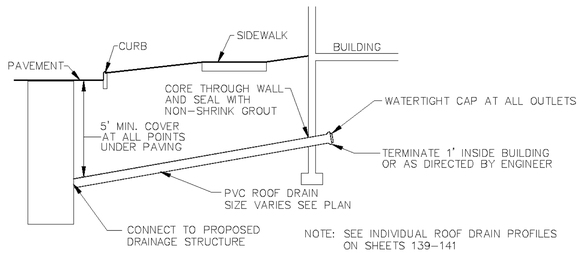
Sheet "A" revised"



NOTE: SEE INDIVIDUAL SEWER SERVICE PROFILES ON SHEETS 128-133

TYPICAL SEWER SERVICE LATERALS

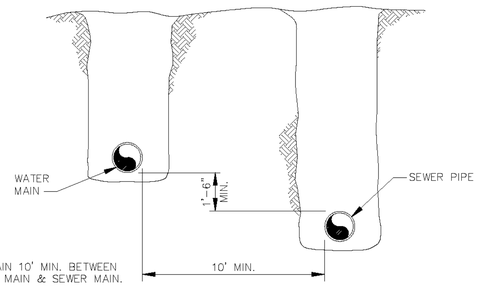
NOT TO SCALE



NOTE: SEE INDIVIDUAL ROOF DRAIN PROFILES ON SHEETS 139-141

TYPICAL ROOF DRAIN SERVICE LATERALS

NOT TO SCALE



SEWER-WATER PARALLEL INSTALLATION

NOT TO SCALE

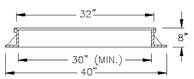


COVER PLATE

MIN. WEIGHT = 150 LBS.



COVER SECTION

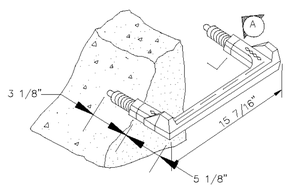


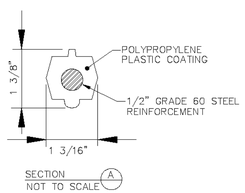
FRAME SECTION

MIN. WEIGHT = 250 LBS.

MANHOLE FRAME AND COVER DETAIL

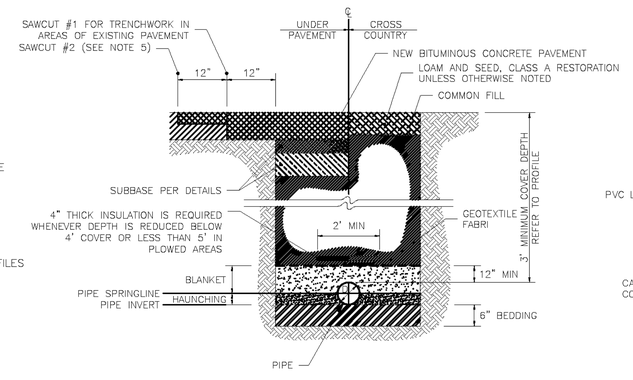
NOT TO SCALE





MANHOLE STEP DETAIL

NOT TO SCALE



BEDDING - EXCAVATE BELOW PIPE AND REFILL. MATERIALS AND COMPACTION AS SPECIFIED.

HAUNCHING - FROM INVERT OF PIPE TO SPRINGLINE OF PIPE. HAND PLACE AND HAND TAMP TO REMOVE ALL VOIDS FROM UNDER PIPE. MATERIAL AND COMPACTION AS SPECIFIED.

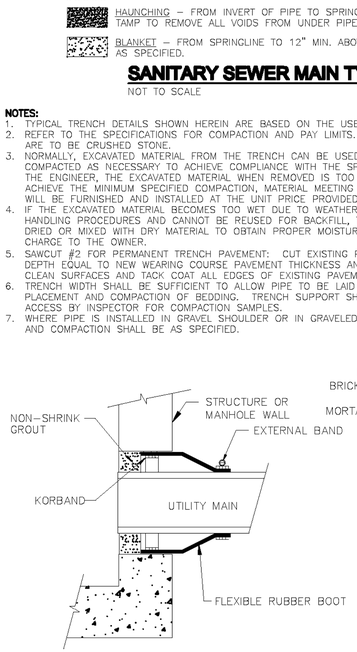
BLANKET - FROM SPRINGLINE TO 12" MIN. ABOVE PIPE. MATERIAL AND COMPACTION AS SPECIFIED.

SANITARY SEWER MAIN TYPICAL TRENCH DETAIL

NOT TO SCALE

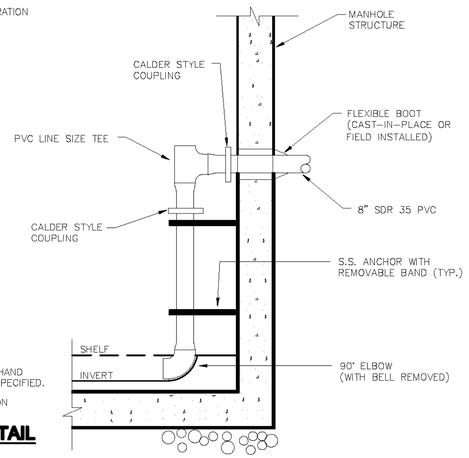
NOTES:

1. TYPICAL TRENCH DETAILS SHOWN HEREIN ARE BASED ON THE USE OF PVC OR HDPE PIPE.
2. REFER TO THE SPECIFICATIONS FOR COMPACTION AND PAY LIMITS. BLANKET, HAUNCHING, AND BEDDING, ARE TO BE CRUSHED STONE.
3. NORMALLY, EXCAVATED MATERIAL FROM THE TRENCH CAN BE USED AS COMMON FILL BACKFILL AND COMPACTED AS NECESSARY TO ACHIEVE COMPLIANCE WITH THE SPECIFICATIONS. IF IN THE OPINION OF THE ENGINEER, THE EXCAVATED MATERIAL WHEN REMOVED IS TOO WET TO BE USED AS BACKFILL TO ACHIEVE THE MINIMUM SPECIFIED COMPACTION, MATERIAL MEETING THE COMMON FILL SPECIFICATION WILL BE FURNISHED AND INSTALLED AT THE UNIT PRICE PROVIDED.
4. IF THE EXCAVATED MATERIAL BECOMES TOO WET DUE TO WEATHER CONDITIONS OR DUE TO IMPROPER HANDLING PROCEDURES AND CANNOT BE REUSED FOR BACKFILL, THE MATERIAL SHALL BE SUFFICIENTLY DRIED OR MIXED WITH DRY MATERIAL TO OBTAIN PROPER MOISTURE CONTENT AT NO ADDITIONAL CHARGE TO THE OWNER.
5. SAWCUT #2 FOR PERMANENT TRENCH PAVEMENT: CUT EXISTING PAVEMENT IN A STRAIGHT LINE TO A DEPTH EQUAL TO NEW WEARING COURSE PAVEMENT THICKNESS AND REMOVE EXISTING PAVEMENT. CLEAN SURFACES AND TACK COAT ALL EDGES OF EXISTING PAVEMENT.
6. TRENCH WIDTH SHALL BE SUFFICIENT TO ALLOW PIPE TO BE LAID AND JOINED PROPERLY AND FOR PLACEMENT AND COMPACTION OF BEDDING. TRENCH SUPPORT SHALL BE ADEQUATE TO PERMIT SAFE ACCESS BY INSPECTOR FOR COMPACTION SAMPLES.
7. WHERE PIPE IS INSTALLED IN GRAVEL SHOULDER OR IN GRAVELED ROAD, GRAVEL SUBBASE MATERIAL AND COMPACTION SHALL BE AS SPECIFIED.



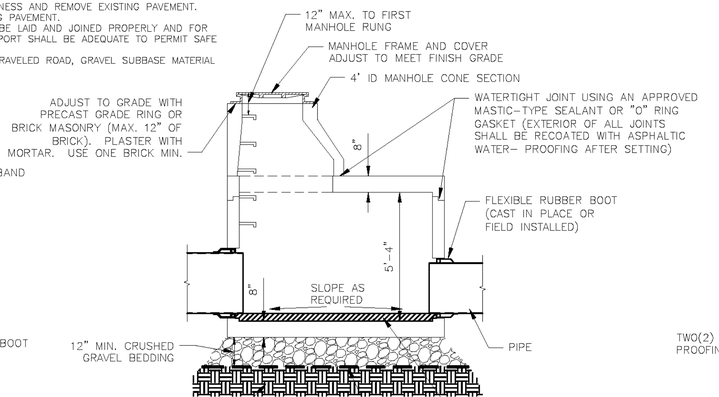
PIPE TO STRUCTURE OR MANHOLE JOINT DETAIL

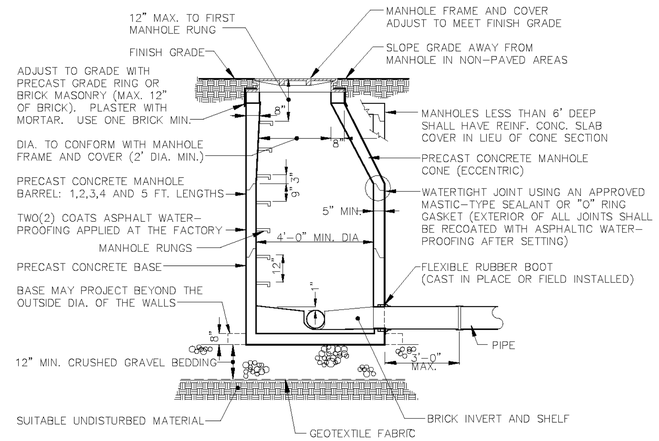
NOT TO SCALE



MANHOLE DROP INLET DETAIL

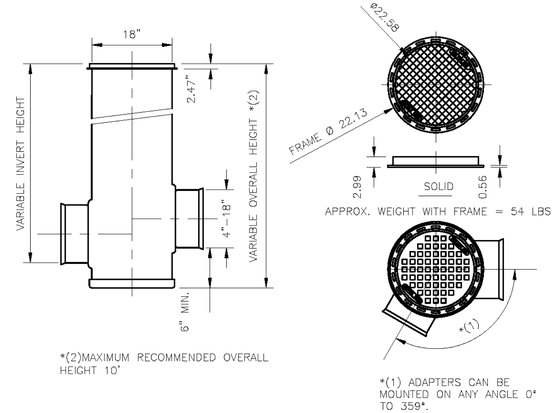
NOT TO SCALE





PRECAST CONCRETE MANHOLE

NOT TO SCALE

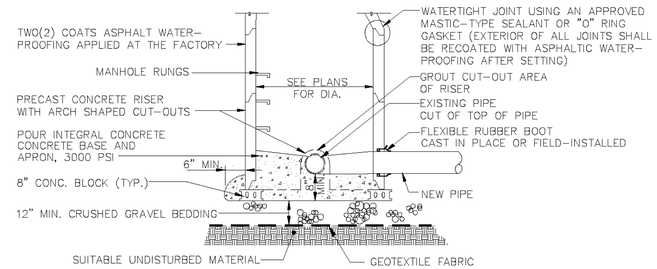


*(2)MAXIMUM RECOMMENDED OVERALL HEIGHT 10'

*(1) ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 359°.

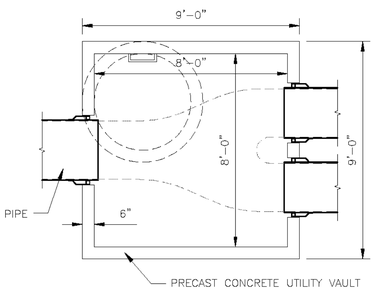
CLEAN OUT DETAIL

NOT TO SCALE



NEW MANHOLE ON EXISTING PIPE

NOT TO SCALE



PRECAST CONCRETE VAULT

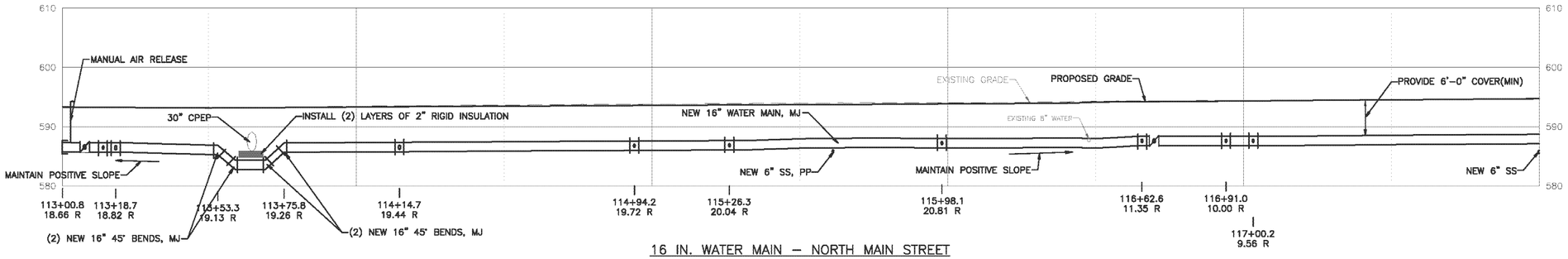
NOT TO SCALE

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

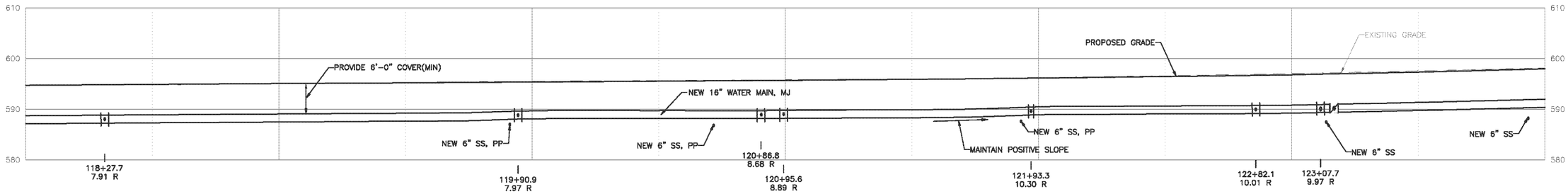
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 717014-DETAILS
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
SEWER DETAILS

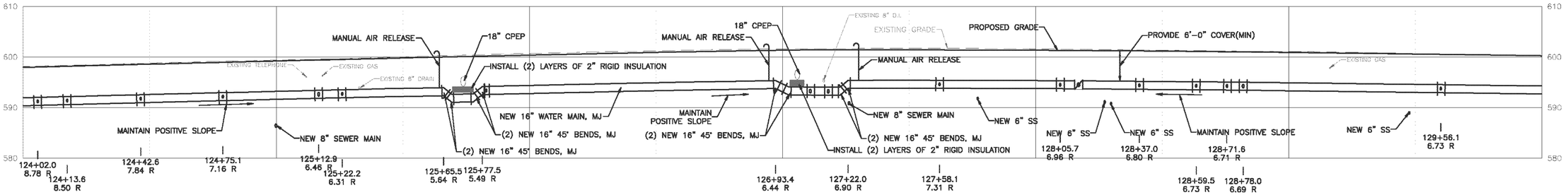
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFHEAD
SHEET 150 OF 339



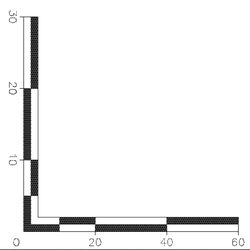
16 IN. WATER MAIN – NORTH MAIN STREET



16 IN. WATER MAIN – NORTH MAIN STREET



16 IN. WATER MAIN – NORTH MAIN STREET



NOTES:

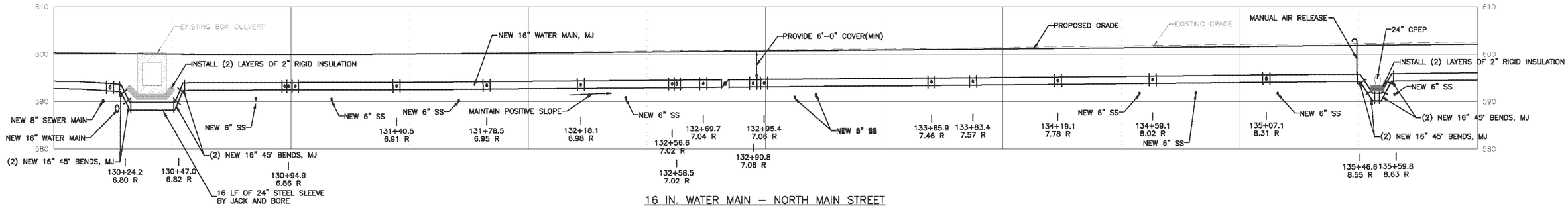
1. SEE SHEET 133 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. STATIONING SHOWN HEREON IS BASED ON ROAD CENTERLINE AS PER VTRANS REQUIREMENTS AND MAY NOT REFLECT PROPER PIPE LENGTHS
3. SEE SHEETS 134–138 FOR PLAN INFORMATION.
4. SEE SHEETS 150 AND 154 FOR DETAILS

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

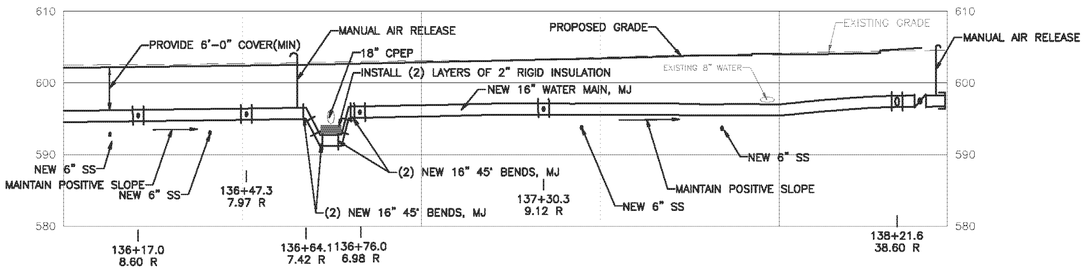
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 717014-PROFILES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
WATER PROFILES

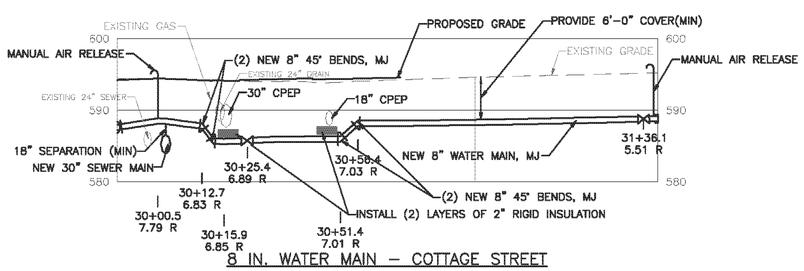
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 151 OF 339



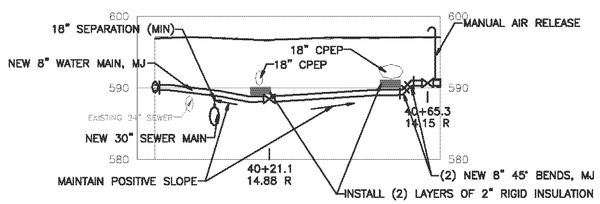
16 IN. WATER MAIN – NORTH MAIN STREET



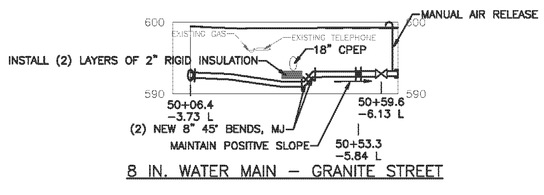
16 IN. WATER MAIN – NORTH MAIN STREET



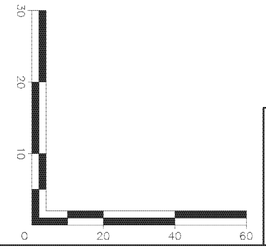
8 IN. WATER MAIN – COTTAGE STREET



8 IN. WATER MAIN – SOUTH SEMINARY STREET



8 IN. WATER MAIN – GRANITE STREET



NOTES:

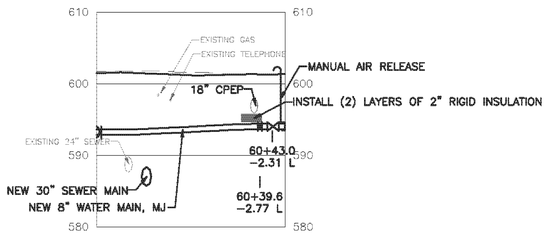
1. SEE SHEET 133 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. STATIONING SHOWN HEREON IS BASED ON ROAD CENTERLINE AS PER VTRANS REQUIREMENTS AND MAY NOT REFLECT PROPER PIPE LENGTHS
3. SEE SHEETS 134–138 FOR PLAN INFORMATION.
4. SEE SHEETS 150 AND 154 FOR DETAILS

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

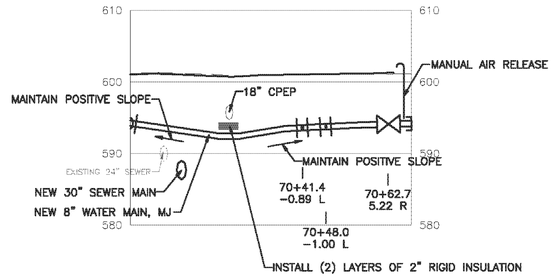
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 717014-PROFILES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
WATER PROFILES

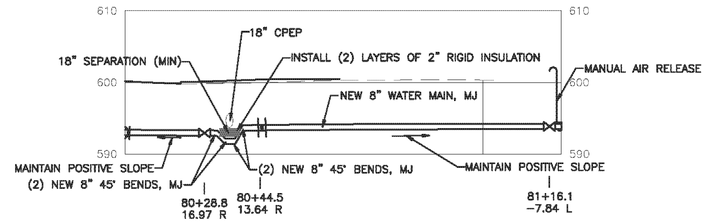
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 152 OF 339



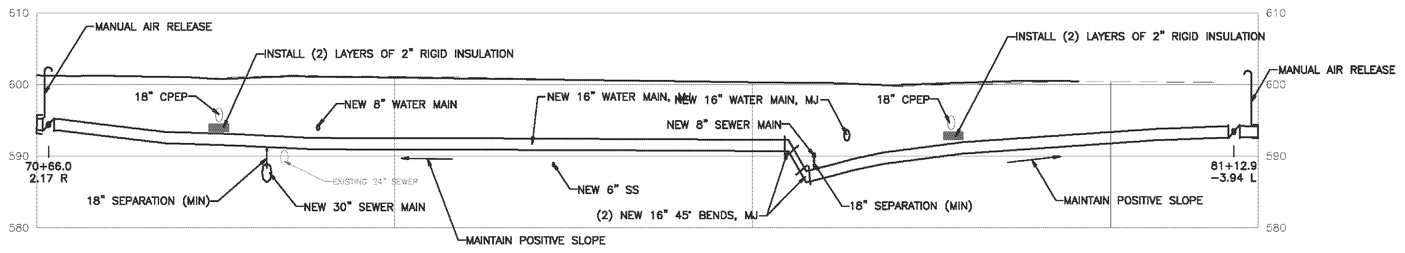
8 IN. WATER MAIN – WEST STREET



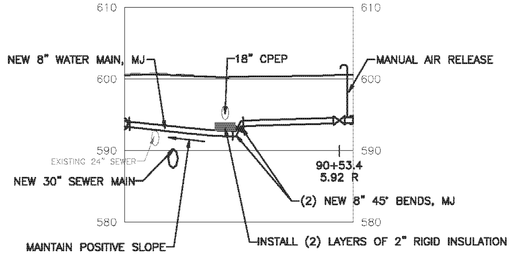
16 IN. WATER MAIN – MERCHANT STREET



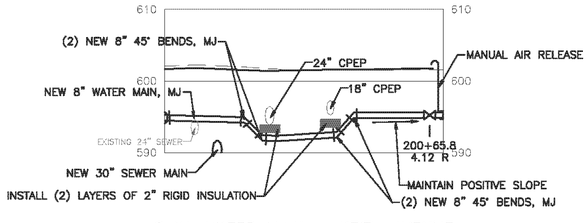
8 IN. WATER MAIN – DEPOT SQUARE



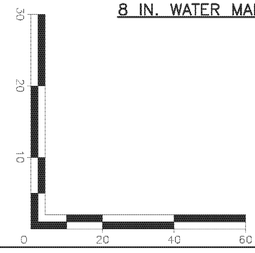
16 IN. HIGH PRESSURE WATER MAIN



8 IN. WATER MAIN –PEARL STREET



8 IN. WATER MAIN – KEITH AVENUE



NOTES:

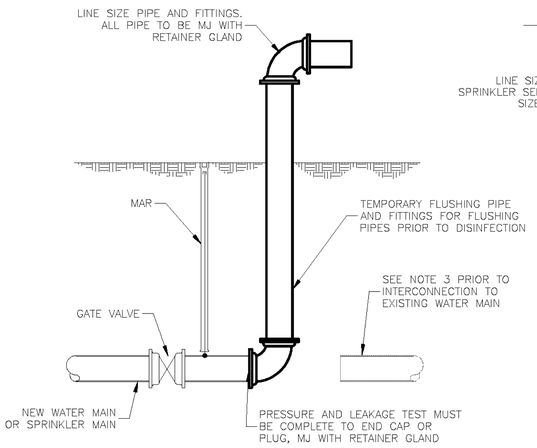
1. SEE SHEET 133 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS.
2. STATIONING SHOWN HEREON IS BASED ON ROAD CENTERLINE AS PER VTRANS REQUIREMENTS AND MAY NOT REFLECT PROPER PIPE LENGTHS
3. SEE SHEETS 134–138 FOR PLAN INFORMATION.
4. SEE SHEETS 150 AND 154 FOR DETAILS.

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–PROFILES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
WATER PROFILES

PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 153 OF 339

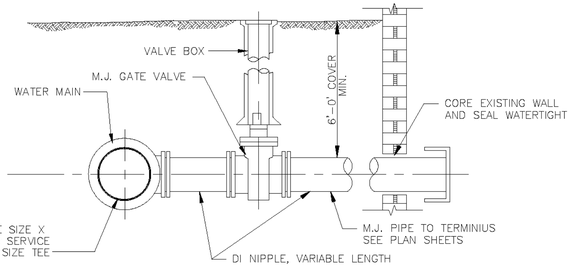


TEMPORARY FLUSHING CONNECTION

SCALE: NOT TO SCALE

NOTES:

1. MINIMUM FLUSHING VELOCITY IS 3 FEET PER SECOND.
2. CONTRACTOR TO INSURE ALL FLUSHING WATER IS CONTROLLED IN ACCORDANCE WITH CONSTRUCTION GENERAL PERMIT AND DECHLORINATED PRIOR TO DISCHARGE.
3. CONTRACTOR TO SWAB CHLORNATE FITTINGS AND CONNECTORS NOT INCLUDED IN INITIAL DISINFECTION PROCEDURE IF CONNECTING TO AN EXISTING WATER MAIN.

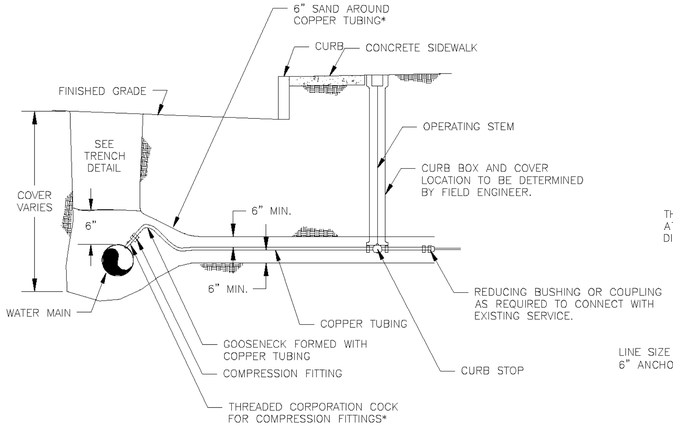


NOTES:

1. ALL SPRINKLERS TO BE 6" AND VALVES LOCATED AT THE CURB LINE.
2. ADDITIONAL BENDS OR FITTINGS MAY BE REQUIRED, SEE PLAN SHEETS.
3. ALL SPRINKLER CONNECTION MUST HAVE SINGLE CHECK VALVE INSTALLED AT THE CONNECTION TO THE INTERIOR PLUMBING.

SPRINKLER SERVICE DETAIL

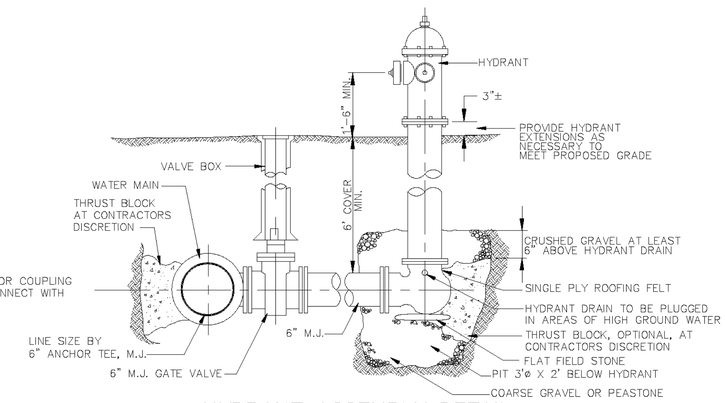
NOT TO SCALE



* NEW COPPER TUBING AND FITTING SIZES TO BE 1-1/2". SEE WATER SERVICE AND SIZE SCHEDULE THIS SHEET FOR EXISTING SIZES.

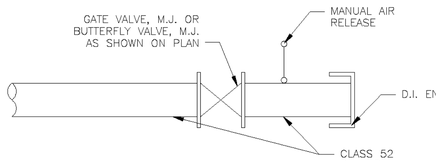
TYPICAL WATER SERVICE CONNECTION DETAIL

NOT TO SCALE



HYDRANT ASSEMBLY DETAIL

NOT TO SCALE

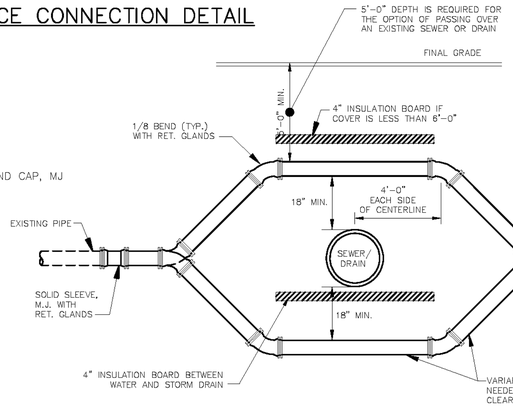


NOTES:

1. SEE PLANS FOR LINE SIZES AND VALVE LOCATIONS.
2. ADDITIONAL BENDS OR FITTINGS MAY BE REQUIRED, SEE PLAN SHEETS.
3. SEE MANUAL/CHLORINE DETAIL. THIS SHEET

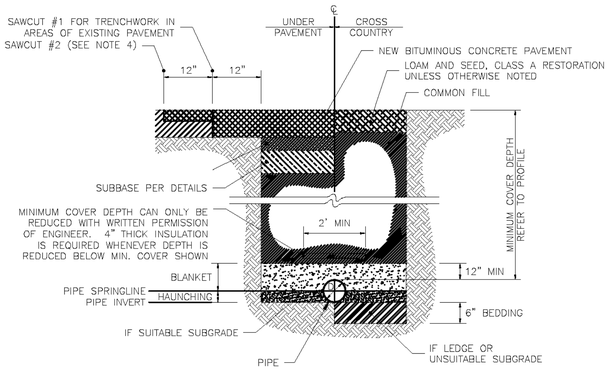
FUTURE CONNECTION DETAIL

NOT TO SCALE



SECTION-WATER MAIN RELOCATION DETAIL

NOT TO SCALE



BEDDING – EXCAVATE BELOW PIPE AND REFILL ONLY WHEN SPECIFICALLY ORDERED. MATERIALS AND COMPACTION AS SPECIFIED.

HAUNCHING – FROM INVERT OF PIPE TO SPRINGLINE OF PIPE. HAND PLACE AND HAND TAMP TO REMOVE ALL VOIDS FROM UNDER PIPE. MATERIAL AND COMPACTION AS SPECIFIED.

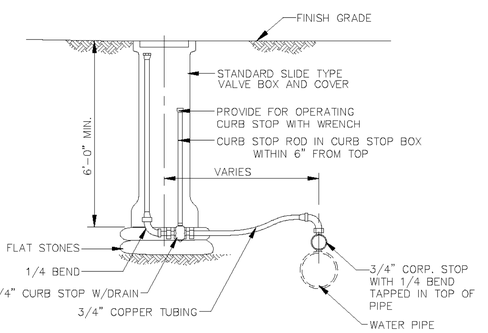
BLANKET – FROM SPRINGLINE TO 12" MIN. ABOVE PIPE. MATERIAL AND COMPACTION AS SPECIFIED.

WATER MAIN TYPICAL TRENCH DETAIL

NOT TO SCALE

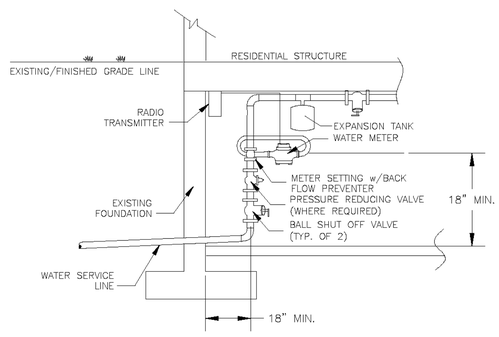
NOTES:

1. REFER TO THE SPECIFICATIONS FOR COMPACTION, PAY LIMITS, AND SPECIALTY MATERIALS FOR BLANKET, BEDDING, AND GRAVELS.
2. NORMALLY, EXCAVATED MATERIAL FROM THE TRENCH CAN BE USED AS COMMON FILL BACKFILL AND COMPACTED AS NECESSARY TO ACHIEVE COMPLIANCE WITH THE SPECIFICATIONS. IF IN THE OPINION OF THE ENGINEER, THE EXCAVATED MATERIAL WHEN REMOVED IS TOO WET TO BE USED AS BACKFILL TO ACHIEVE THE MINIMUM SPECIFIED COMPACTION, MATERIAL MEETING THE COMMON FILL SPECIFICATION WILL BE FURNISHED AND INSTALLED AT THE UNIT PRICE PROVIDED.
3. IF THE EXCAVATED MATERIAL BECOMES TOO WET DUE TO WEATHER CONDITIONS OR DUE TO IMPROPER HANDLING PROCEDURES AND CANNOT BE REUSED FOR BACKFILL, THE MATERIAL SHALL BE SUFFICIENTLY DRIED OR MIXED WITH DRY MATERIAL TO OBTAIN PROPER MOISTURE CONTENT AT NO CHARGE TO THE OWNER.
4. SAWCUT #2 FOR PERMANENT TRENCH PAVEMENT: CUT EXISTING PAVEMENT IN A STRAIGHT LINE TO A DEPTH EQUAL TO NEW WEARING COURSE PAVEMENT THICKNESS AND REMOVE EXISTING PAVEMENT. CLEAN SURFACES AND TACK COAT ALL EDGES OF EXISTING PAVEMENT.
5. TRENCH WIDTH SHALL BE SUFFICIENT TO ALLOW PIPE TO BE LAID AND JOINED PROPERLY AND FOR PLACEMENT AND COMPACTION OF BEDDING. TRENCH SUPPORT SHALL BE ADEQUATE TO PERMIT SAFE ACCESS BY INSPECTOR FOR COMPACTION SAMPLES.
6. WHERE PIPE IS INSTALLED IN GRAVEL SHOULDER OR IN GRAVELED ROAD, GRAVEL SUBBASE MATERIAL AND COMPACTION SHALL BE AS SPECIFIED.



TYPICAL INSTALLATION-TRAVEL WAY FOR MANUAL AIR RELEASE OR CHLORINATION INJECTION

NOT TO SCALE



WATER METER DETAIL

NOT TO SCALE

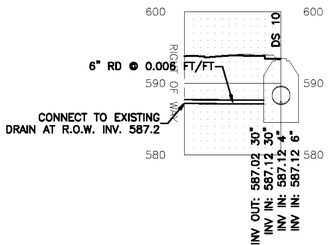
WATER SERVICE AND METER SIZES		
BUILDING NO.	SERVICE SIZE	METER SIZE
14–22	1"	3/4"
48–54	3/4"	5/8"
71–77	3/4"	5/8"
81–83	3/4"	5/8"
103–119	1 1/2"	1"
122–126	1"	3/4"
135	3/4	5/8"
143–151	2"	1"
158–166	3/4"	5/8"
168	3/4"	5/8"
170–174	1"	3/4"
180–186	1"	3/4"
185–189	1 1/2"	1"
188–194	1 1/2"	1"
199–205	3/4"	5/8"
200	3/4"	5/8"
210	1"	3/4"
213–219	3/4"	5/8"
214	3/4"	5/8"
224–230	1"	3/4"
237–241	3/4"	5/8"
240	1"	3/4"
248	1"	3/4"
260–266	1"	3/4"
289–291	3/4"	5/8"
293–297	1"	3/4"
301–309	1"	3/4"
302–310	3/4"	5/8"
315	3/4"	5/8"
316	3/4"	5/8"
320	1"	3/4"
322	1 1/2"	1"
328–332	1 1/2"	1"
338–342	1 1/2"	1"
350	1"	3/4"
362	2"	1"
372–378	3/4"	5/8"

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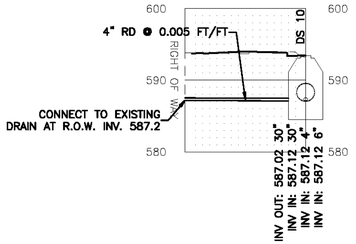
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 717014-DETAILS
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
WATER DETAILS

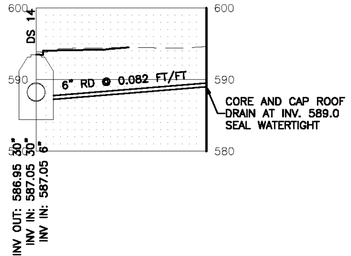
PLOT DATE: Mar. 22, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 154 OF 339



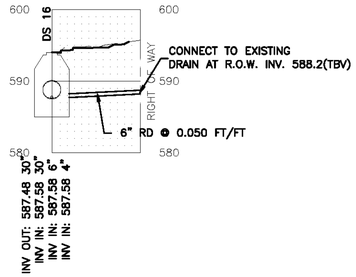
114+80
379a NORTH MAIN STREET



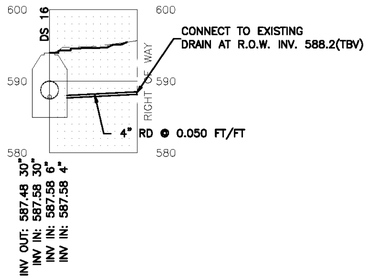
114+80
379b NORTH MAIN STREET



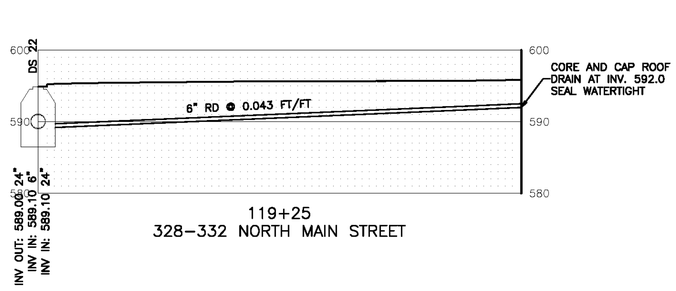
115+67
362 NORTH MAIN STREET



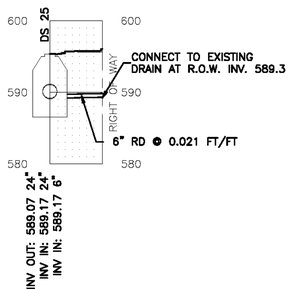
116+80
360 NORTH MAIN STREET



116+80
350 NORTH MAIN STREET

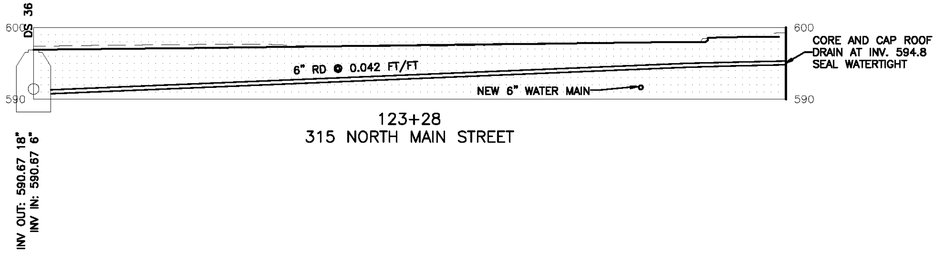


119+25
328–332 NORTH MAIN STREET

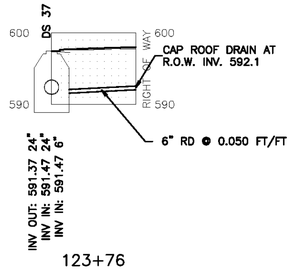


120+73
322 NORTH MAIN STREET

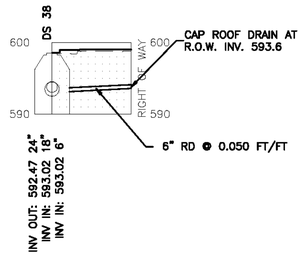
122+71
316 NORTH MAIN STREET



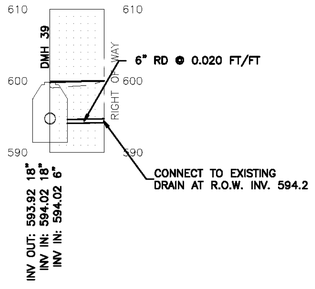
123+28
315 NORTH MAIN STREET



123+76
PARK



124+65
302–310 NORTH MAIN STREET



125+35
292 NORTH MAIN STREET

GRAPHIC SCALE

10 0 5 10 20 40

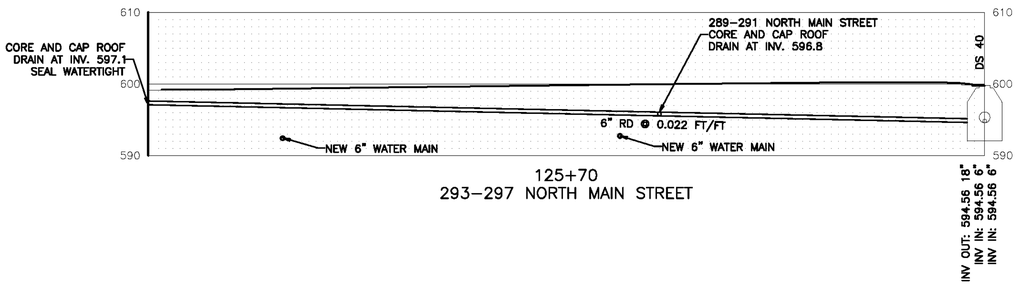
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DUFRESNE GROUP
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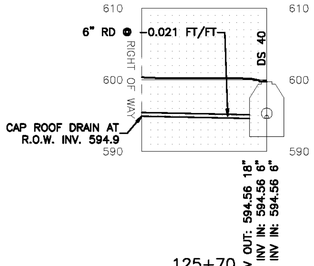
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
ROOF DRAIN PROFILES

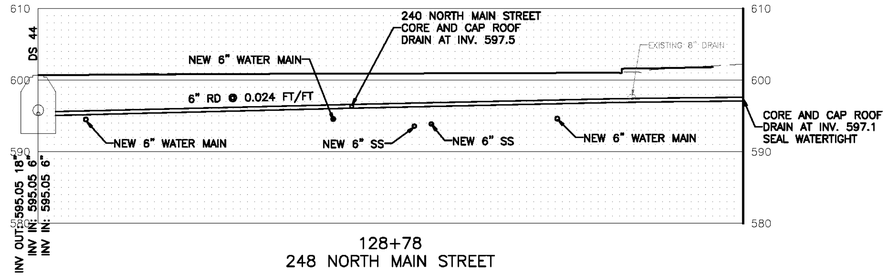
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFIHEAD
SHEET 155 OF 339



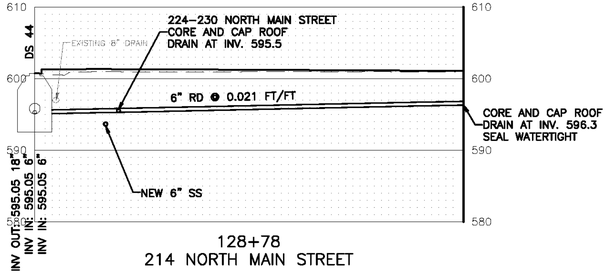
125+70
293-297 NORTH MAIN STREET



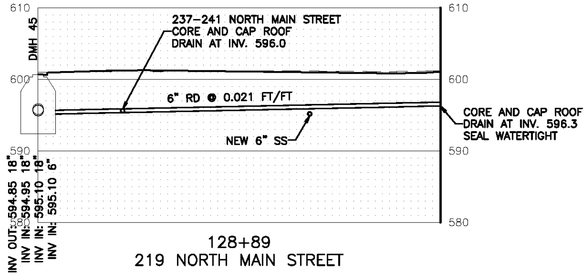
125+70
283 NORTH MAIN STREET



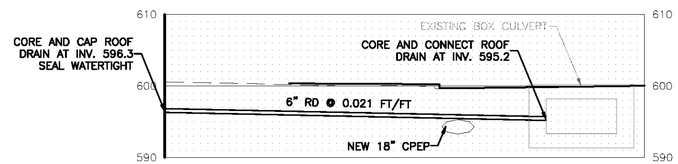
128+78
248 NORTH MAIN STREET



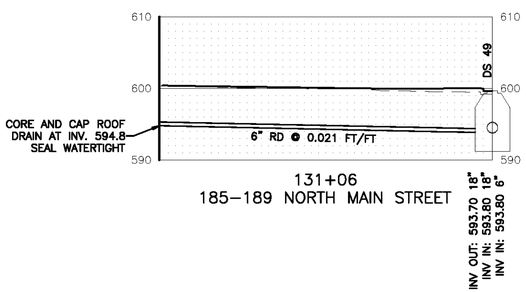
128+78
214 NORTH MAIN STREET



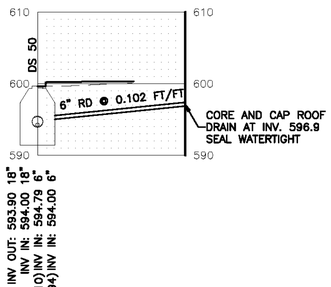
128+89
219 NORTH MAIN STREET

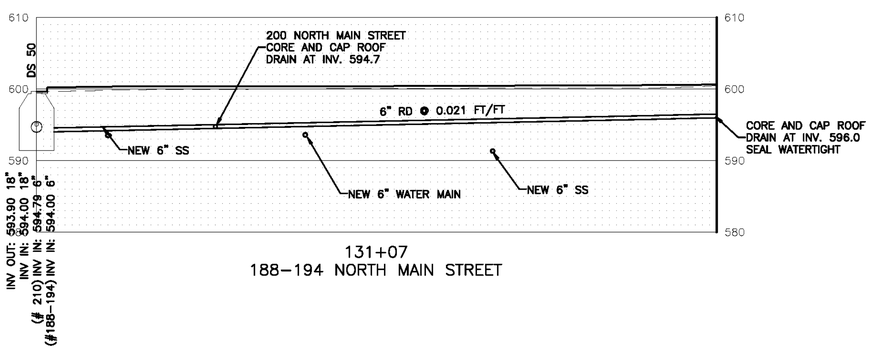


130+56
199-205 NORTH MAIN STREET

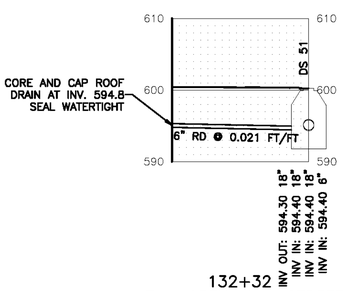


131+06
185-189 NORTH MAIN STREET





131+07
188-194 NORTH MAIN STREET



132+32
171 NORTH MAIN STREET

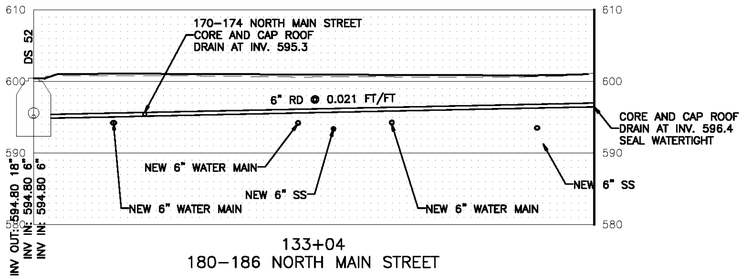
GRAPHIC SCALE
0 5 10 20 40
(IN FEET)

DUFRESNE GROUP
CONSULTING ENGINEERS
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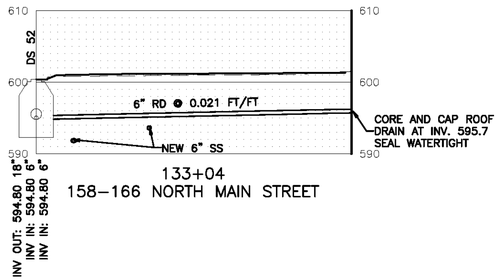
PROJECT NAME: BARRE CITY
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FILE NAME: 717014-SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
ROOF DRAIN PROFILES

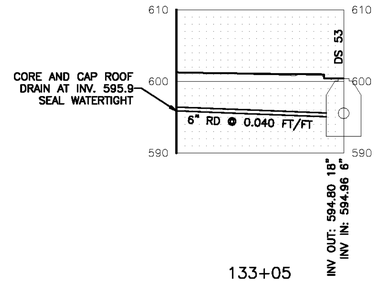
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITEHEAD
SHEET 156 OF 339



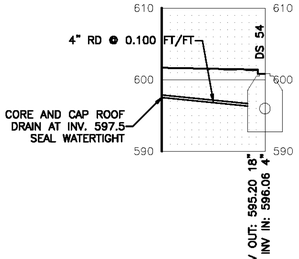
133+04
180–186 NORTH MAIN STREET



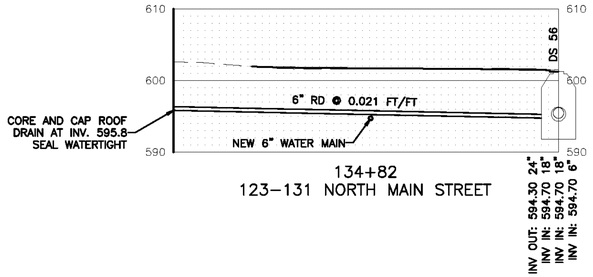
133+04
158–166 NORTH MAIN STREET



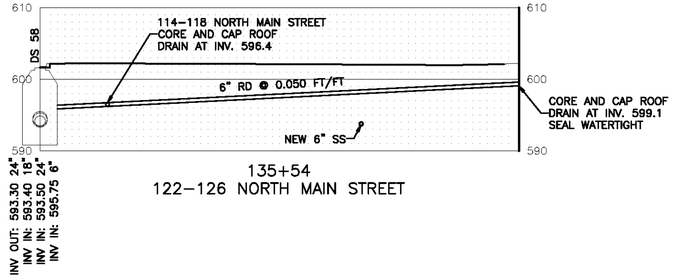
133+05
143–151 NORTH MAIN STREET



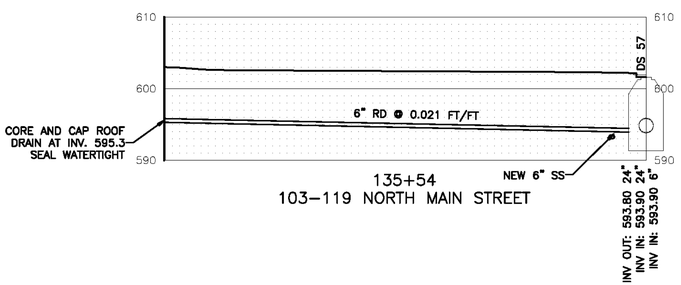
134+00
135 NORTH MAIN STREET



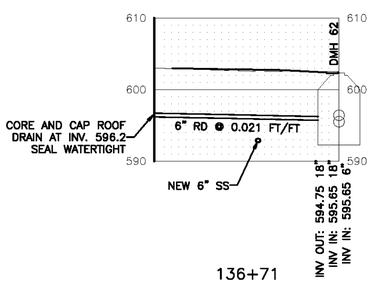
134+82
123–131 NORTH MAIN STREET



135+54
122–126 NORTH MAIN STREET



135+54
103–119 NORTH MAIN STREET



136+71
81–83 NORTH MAIN STREET

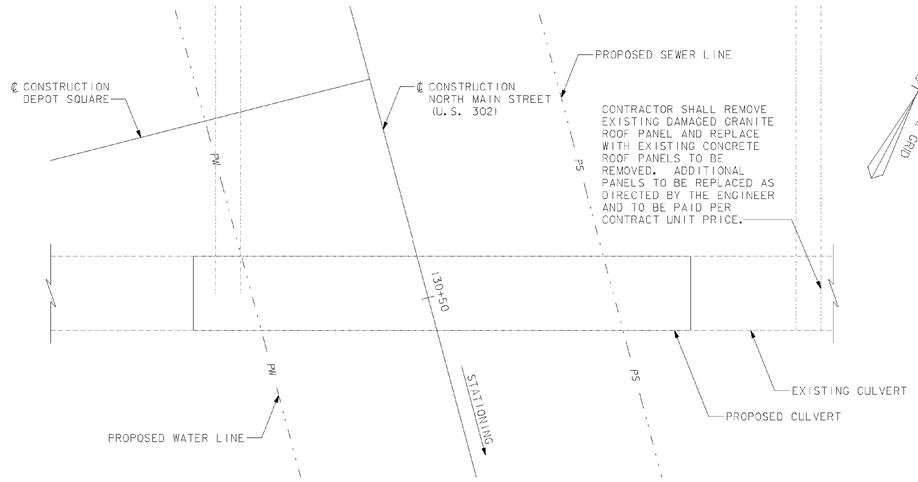
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10 0 5 10 20 40
(IN FEET)

DUFRESNE GROUP
CONSULTING ENGINEERS
Dufresne Group is owned by Dufresne & Associates, PC

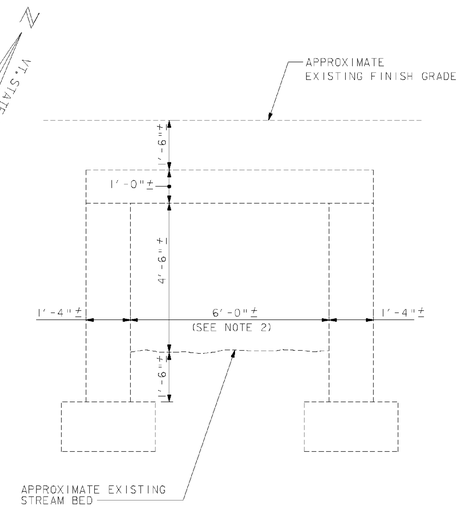
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026–1(34) C/2

FILE NAME: 717014–SERVICES
PROJECT LEADER: R.E. DUFRESNE
DESIGNED BY: B.L. BAKER
ROOF DRAIN PROFILES

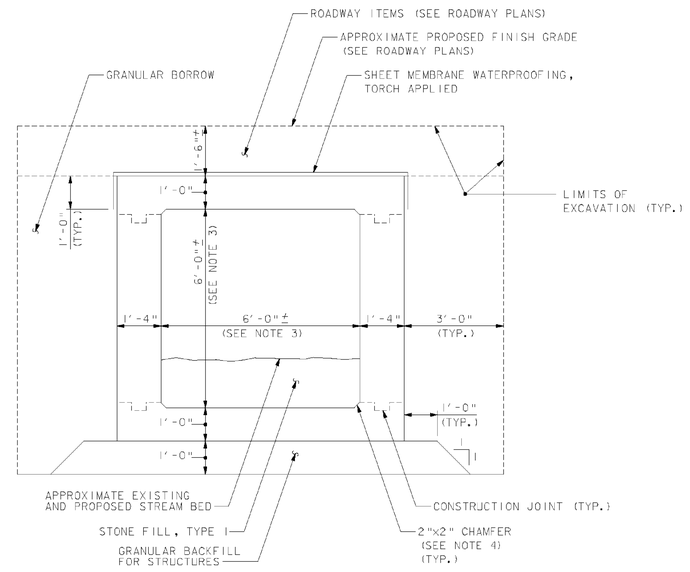
PLOT DATE: Feb. 18, 11
DRAWN BY: B.L. BAKER
CHECKED BY: C.L. WHITFHEAD
SHEET 157 OF 339



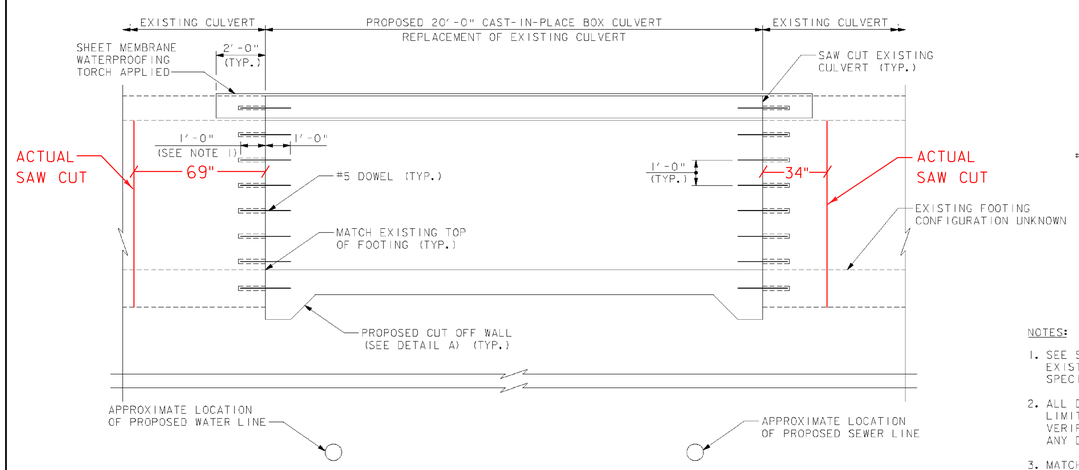
PLAN
SCALE: ⅜" = 1'-0"



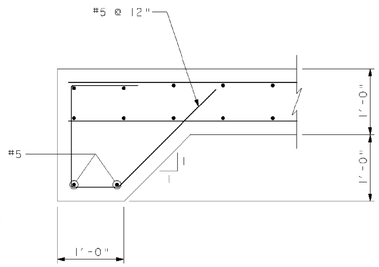
EXISTING TYPICAL SECTION
NOT TO SCALE



PROPOSED TYPICAL SECTION
SCALE: ½" = 1'-0"



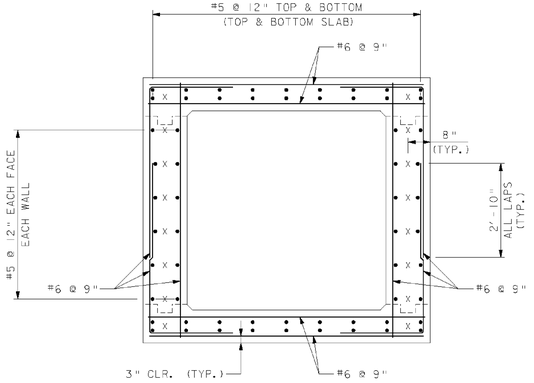
LONGITUDINAL SECTION
SCALE: ⅜" = 1'-0"



DETAIL A
SCALE: 1" = 1'-0"

NOTES:

1. SEE SPECIFICATION SECTION 03301 "PARTIAL REPLACEMENT OF EXISTING CONCRETE CULVERT" IN MUNICIPAL WATER AND SEWER SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL DIMENSIONS OF EXISTING CULVERT SHOWN ARE BASED ON LIMITED FIELD MEASUREMENTS. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
3. MATCH EXISTING CULVERT INTERIOR DIMENSIONS. FORMS SHALL PROVIDE A SMOOTH INTERIOR TRANSITION FROM THE EXISTING CULVERT TO THE PROPOSED BOX CULVERT WALLS AND TOP SLAB.
4. A PROPOSED 2"x2" CHAMFER IS SHOWN AT EACH INTERIOR CORNER. ADJUST CHAMFER SIZE AS NECESSARY OR ELIMINATE IT COMPLETELY TO MATCH EXISTING CULVERT.
5. DRILL AND GROUT #5 DOWELS 1'-0" INTO CENTER OF EXISTING CULVERT WALLS, TOP SLAB AND FOOTINGS AS SHOWN. FOR LOCATION OF DOWELS, SEE TYPICAL REINFORCING SECTION.
6. PAYMENT FOR ALL MATERIALS AND WORK SHOWN SHALL BE MADE UNDER CONTRACT ITEM 900.645 - SPECIAL PROVISION (REMOVE AND REPAIR BOX CULVERT).



TYPICAL REINFORCING SECTION
SCALE: ½" = 1'-0"
X = LOCATION OF #5 DOWEL, SEE LONGITUDINAL SECTION.

STATE OF VERMONT
TIMOTHY S. BRYANT
NO. 018.0064445
CIVIL
LICENSED
PROFESSIONAL ENGINEER

DUFRESNE GROUP
CONSULTING ENGINEERS

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010_culvert.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: GME/MAC III
BOX CULVERT DETAILS

PLOT DATE: 3/31/2011
DRAWN BY: K. WENTWORTH
CHECKED BY: G. EDINGTON
SHEET 158 OF 339

EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REHABILITATION OF NORTH MAIN ST IN BARRE CITY, VT FROM THE VT 62/MAPLE AV INTERSECTION TO THE ELM ST INTERSECTION. MINOR INTERSECTION IMPROVEMENTS AT THE ELM ST/SUMMER ST INTERSECTION AND THE MAPLE AV/SUMMER ST INTERSECTION ARE ALSO PROPOSED FOR TEMPORARY TRAFFIC CONTROL PURPOSES. THE FIRST CONSTRUCTION SEASON IS PROPOSED TO INVOLVE THE UPGRADING OF THE EXISTING SEWER AND WATER LINES, AS WELL AS MODIFICATIONS TO THE NORTH MAIN/MAPLE AV/VT 62 INTERSECTION, MAPLE AV/SUMMER ST INTERSECTION, AND SUMMER ST/ELM ST INTERSECTION. THE PROPOSED WET POND TO BE LOCATED IN THE PARCEL ALONG VT 62 NEAR THE STEVENS BRANCH WILL ALSO BE CONSTRUCTED AND VEGETATED IN THE FIRST CONSTRUCTION SEASON. THE SECOND CONSTRUCTION SEASON WILL INVOLVE THE FULL DEPTH RECONSTRUCTION OF THE NORTH MAIN STREET ROADWAY AND SIDEWALK. IT WILL ALSO INCLUDE UPGRADING THE EXISTING STORM DRAIN SYSTEM LOCATED WITHIN THE PROJECT AREA. CONSTRUCTION WILL BE DONE IN PHASES TO LIMIT IMPACTS TO BUSINESS OWNERS LOCATED ALONG THE PROJECT CORRIDOR. DURING CONSTRUCTION, TRAFFIC WILL BE DIVERTED ONTO SUMMER ST TO BYPASS THE CONSTRUCTION ON NORTH MAIN ST.

THE TOTAL LENGTH OF THE ROADWAY PROJECT IS APPROXIMATELY 0.485 MILES. THE SITE IS LOCATED AT 619582.928 N, 498641.202 E BASED UPON NAD 27. TOTAL DISTURBED AREA (EXCLUDING WASTE, BORROW AND STAGING AREAS): 6.2 ACRES.

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IN THE AREA OF THE PROPOSED WET POND IS APPROXIMATELY 0.70 ACRES. TOTAL AREA OF DISTURBANCE FOR THE ENTIRE PROJECT, NOT INCLUDING COLD PLANING, RESURFACING, AND STAGING, IS APPROXIMATELY 6.2 ACRES. PROPOSED STAGING AND WASTE AREAS SHALL BE LIMITED TO AN AREA OF LESS THAN THREE (3) ACRES. PROPOSED AREAS WILL BE DEFINED BY THE CITY OF BARRE. IT IS ANTICIPATED THAT THIS PROJECT WILL LAST THREE CONSTRUCTION SEASONS.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE PROJECT AREA IS GENERALLY FLAT AND IS COVERED WITH SIGNIFICANT DEVELOPMENT, BOTH RESIDENTIAL AND COMMERCIAL. BUSINESSES LINE BOTH SIDES OF NORTH MAIN STREET THROUGHOUT THE PROJECT SITE. OVERHEAD UTILITIES HAVE BEEN MOVED OFF SITE TO IMPROVE THE AESTHETICS OF THE DOWNTOWN. UPGRADES IN THE SEWER, WATER, AND DRAINAGE LINES ARE A KEY PART OF THE PROJECT SCOPE.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THE STEVENS BRANCH IS THE PRIMARY WATER SOURCE NEAR THE PROJECT SITE. POTASH BROOK IS A TRIBUTARY OF THE STEVENS BRANCH THAT TRAVELS THROUGH THE PROJECT SITE UNDERGROUND. PART OF THE EXISTING STORMWATER SYSTEM WITHIN THE SITE CONNECTS TO POTASH BROOK VIA CULVERTS AND DROP INLETS. THE TRIBUTARY AREA FOR THE STEVENS BRANCH AT THE MOST DOWNSTREAM END OF THE PROJECT SITE IS APPROXIMATELY 86.2 SQUARE MILES.

1.2.3 VEGETATION

MINIMAL VEGETATION EXISTS WITHIN THE PROJECT SITE. MINOR IMPACTS TO RESIDENTIAL LAWNS WILL BE REESTABLISHED WITH STANDARD SEED MULCH PRACTICES. THE UNDEVELOPED PARCEL ALONG THE STEVENS BRANCH WILL BE USED TO CONSTRUCT A WET POND FOR WATER QUALITY TREATMENT PURPOSES. EROSION MATTING WILL BE USED TO STABILIZE THE SLOPES. ALL DISTURBED EARTH WILL BE REESTABLISHED FOLLOWING CONSTRUCTION. AS PART OF THE LANDSCAPING PLAN, NUMEROUS TREES AND SHRUBS WILL BE PLACED THROUGHOUT THE PROJECT AREA, INCLUDING AT THE PROPOSED WET POND.

1.2.4 SOILS

SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WASHINGTON, VERMONT. THE SOIL ON THE PROJECT SITE HAS BEEN CLASSIFIED AS "URBAN LAND-UDIPSAMMENTS, OCCASIONALLY FLOODED" WITH AN APPROXIMATE "K" FACTOR OF 0.1. THIS SOIL TYPE IS GENERALLY LOCATED IN BARRE AND MONTPELIER, AND CAN GENERALLY BE FOUND WITHIN FLOOD PLAINS AND TERRACES. IT IS MADE UP OF 50% URBAN LAND, 25% UDIPSAMMENTS, 15% DUMPS, AND 10% OTHER SOILS. ONSITE INVESTIGATION IS REQUIRED TO DETERMINE THE EXACT NATURE OF THE SOIL MAKEUP.
NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:
0.0-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: STEVENS BRANCH & POTASH BROOK
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED. PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTOR'S PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

INLET PROTECTION DEVICES WILL BE INSTALLED THROUGHOUT THE PROJECT SITE TO MINIMIZE CONSTRUCTION RUNOFF FROM DIRECTLY ENTERING THE SURROUNDING RECEIVING WATER BODIES VIA THE EXISTING STORMWATER COLLECTION SYSTEM.

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS RELATIVELY FLAT. THEREFORE IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

DUE TO THE MAKEUP OF THE PROJECT SITE AND THE SURROUNDING FACILITIES, CONCENTRATED FLOW IN CHANNELS IS NOT ANTICIPATED. THUS CHECK STRUCTURES ARE NOT ANTICIPATED TO BE NEEDED.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

A NEW WET POND AND PARTICLE SEPARATOR ARE PROPOSED FOR THE PURPOSE OF TREATING THE REQUIRED WATER QUALITY VOLUME OF STORMWATER GENERATED THROUGHOUT THE PROJECT SITE. THE PROPOSED POND AND PARTICLE SEPARATOR WILL BE LOCATED ALONG VT ROUTE 62 SOUTH OF THE NORTH MAIN STREET INTERSECTION. THE WET POND WILL HAVE A DIRECT DISCHARGE INTO STEVENS BRANCH VIA A PIPE AND OVERFLOW WEIR.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

TEMPORARY MULCHING AND SEEDING OF ALL EXPOSED SLOPES SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.
THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

DE-WATERING ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO OPEN PUMPING FROM SHALLOW SUMPS, TEMPORARY DITCHES, AND TRENCHES WITHIN AND AROUND THE EXCAVATION LIMITS. SUMPS SHALL BE PROVIDED WITH FILTERS SUITABLE TO PREVENT PUMPING OF FINE-GRAINED SOIL PARTICLES. TRAPPED WATER DURING DEWATERING CONTROLS SHOULD BE DISCHARGED TO SETTLING BASINS AND/OR APPROVED FILTER SOCKS. ALL EFFLUENT OR DISCHARGE SHOULD COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE

1.5.2 OFF-SITE ACTIVITIES

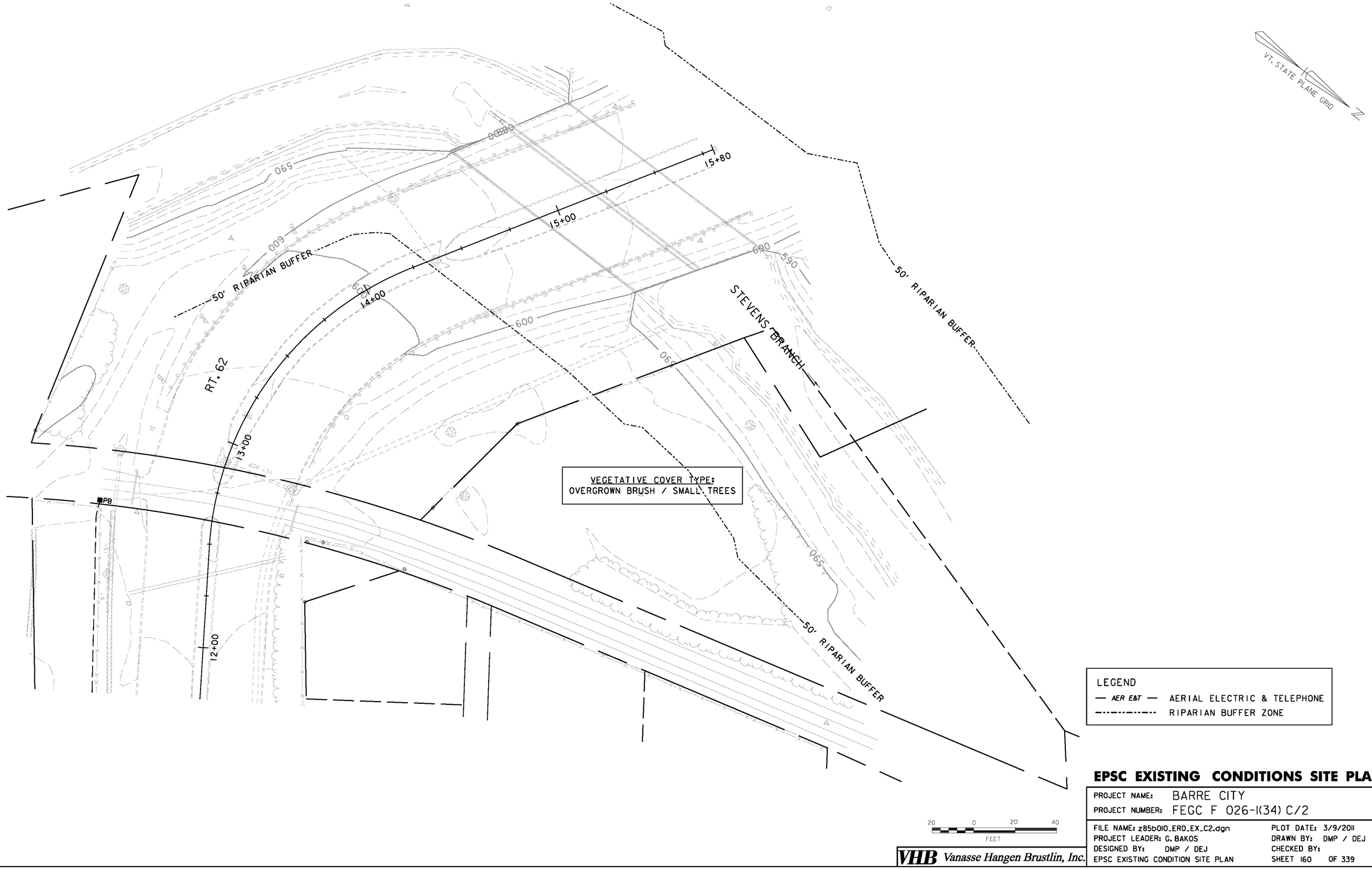
IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SUBSECTIONS 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

EPSC NARRATIVE

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-I(34) C/2

FILE NAME: 85D010_ERO_NAR_C2		PLOT DATE:	3/9/2011
PROJECT LEADER:	G. BAKOS	DRAWN BY:	DMP / JAR
DESIGNED BY:	DMP / MDS	CHECKED BY:	
EPSC NARRATIVE		SHEET	159 OF 339

VHB Vanasse Hangen Brustlin, Inc.



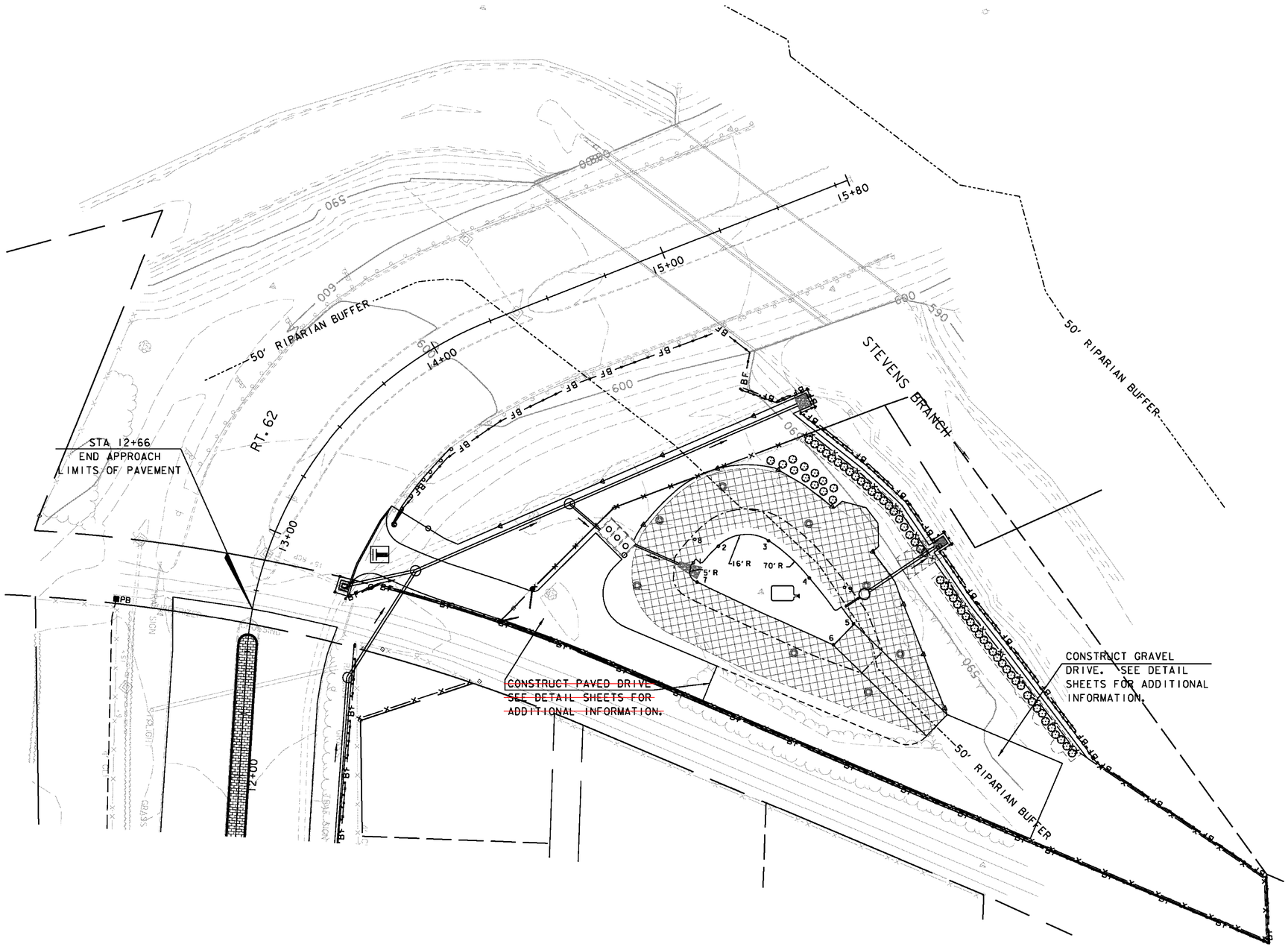
EPSC EXISTING CONDITIONS SITE PLAN

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010_ERO_EX_C2.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / DEJ
EPSC EXISTING CONDITION SITE PLAN

PLOT DATE: 3/9/2011
DRAWN BY: DMP / DEJ
CHECKED BY:
SHEET 160 OF 339

VHB Vanasse Hangen Brustlin, Inc.



SOIL CLASSIFICATION

URBAN LAND-UDIPSAMMENTS
COMPLEX, OCCASSIONALLY FLOODED
NEARLY LEVEL SLOPES
"K FACTOR" 0.10

NOTES:

1. THESE PLANS SHOW A CONCEPTUAL EROSION CONTROL PLAN, THE CONTRACTOR MUST SUBMIT A TEMPORARY EROSION CONTROL PLAN FOR APPROVAL.
2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE RESIDENT ENGINEER AND ON SITE COORDINATOR.
3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER AND ON SITE COORDINATOR.
4. CONTRACTOR SHALL PROVIDE PROVIDE DEWATERING OPERATIONS (INCIDENTAL TO POND CONSTRUCTION ITEMS).
5. REFER TO TEMPORARY EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL DETAILS.
6. PROVIDE AN AGENCY APPROVED LINER IF THE POND CANNOT SUSTAIN A PERMANENT POOL. LINER SHALL BE PAID FOR AS SPECIAL PROVISION (POND LINER, GEOMEMBRANE)

LEGEND

- SILT FENCE
- SILT FENCE, WOVEN-WIRE REINFORCED
- LIMITS OF SOIL DISTURBANCE
- EROSION MATTING
- BF BF BARRIER FENCE
- RIPARIAN BUFFER ZONE
- NEW FENCE
- PROPOSED GRAVEL DRIVE
- STABILIZED CONSTRUCTION ENTRANCE
- DROP INLET PROTECTION
- FILTER BAG FOR DEWATERING

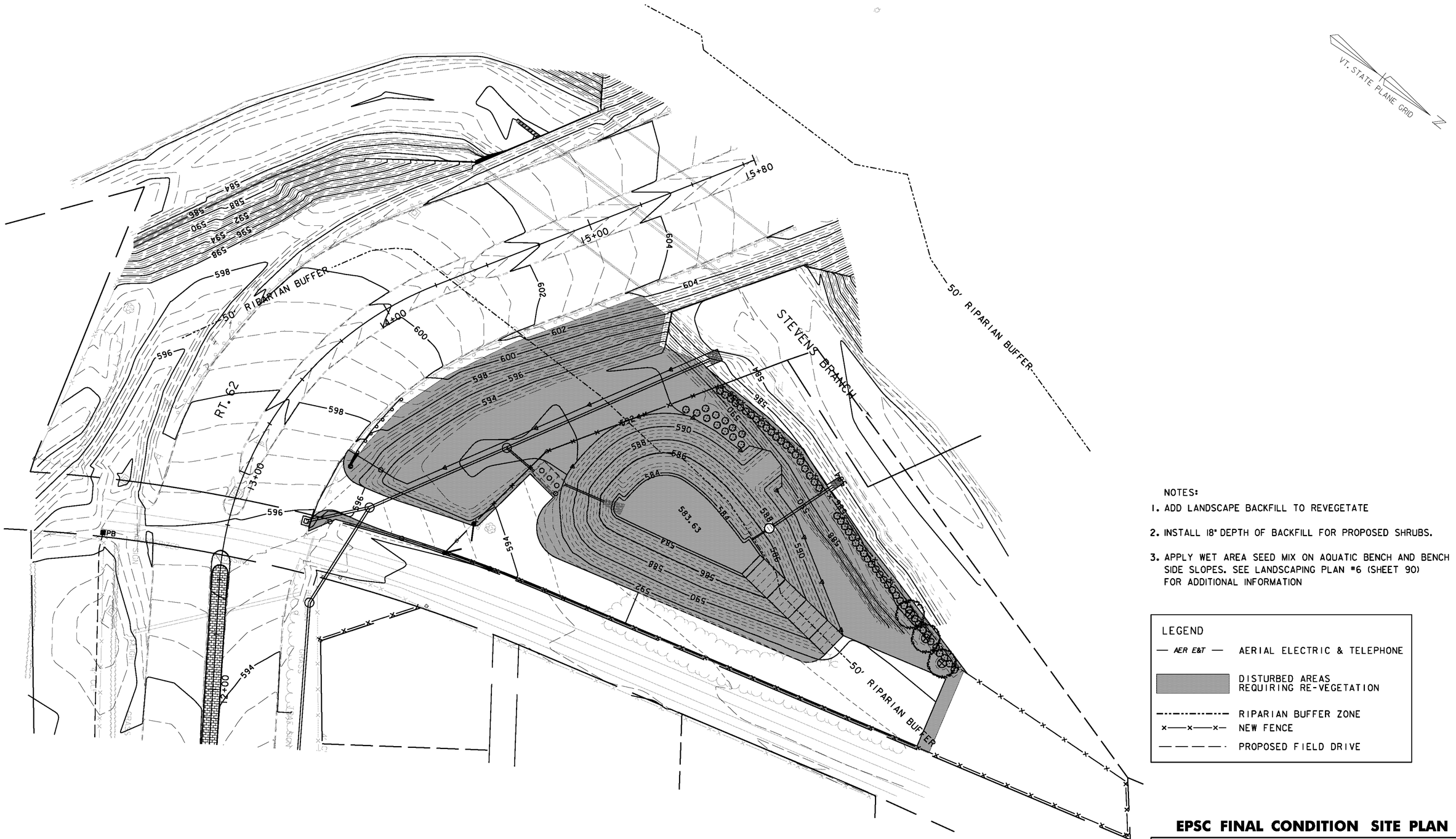
EPSC CONSTRUCTION SITE PLAN

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_ERO_CP_C2.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / DEJ
EPSC CONSTRUCTION SITE PLAN

PLOT DATE: 3/9/2011
DRAWN BY: DMP / DEJ
CHECKED BY:
SHEET 161 OF 339

VHB Vanasse Hangen Brustlin, Inc.



NOTES:

1. ADD LANDSCAPE BACKFILL TO REVEGETATE
2. INSTALL 18" DEPTH OF BACKFILL FOR PROPOSED SHRUBS.
3. APPLY WET AREA SEED MIX ON AQUATIC BENCH AND BENCH SIDE SLOPES. SEE LANDSCAPING PLAN #6 (SHEET 90) FOR ADDITIONAL INFORMATION

LEGEND

- AER E&T — AERIAL ELECTRIC & TELEPHONE
- DISTURBED AREAS REQUIRING RE-VEGETATION
- RIPARIAN BUFFER ZONE
- NEW FENCE
- PROPOSED FIELD DRIVE

20 0 20 40
FEET

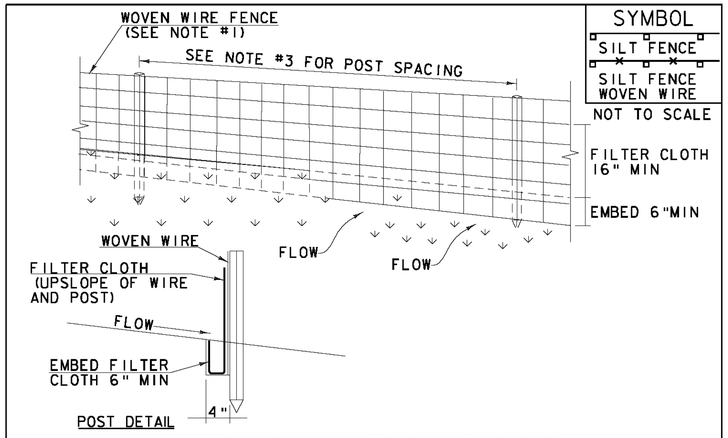
VHB Vanasse Hangen Brustlin, Inc.

EPSC FINAL CONDITION SITE PLAN

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_ERO_FC_C2.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / DEJ
EPSC FINAL CONDITION SITE PLAN

PLOT DATE: 3/9/2011
DRAWN BY: DMP / DEJ
CHECKED BY:
SHEET 162 OF 339



SYMBOL

SILT FENCE

SILT FENCE WOVEN WIRE

NOT TO SCALE

FILTER CLOTH 16" MIN

EMBED 6"MIN

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

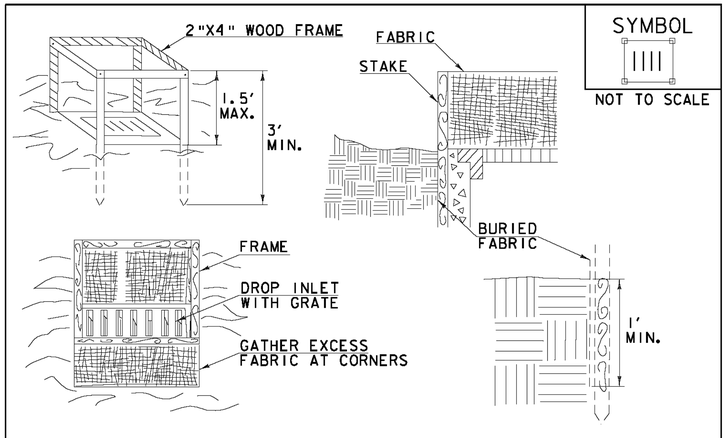
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE

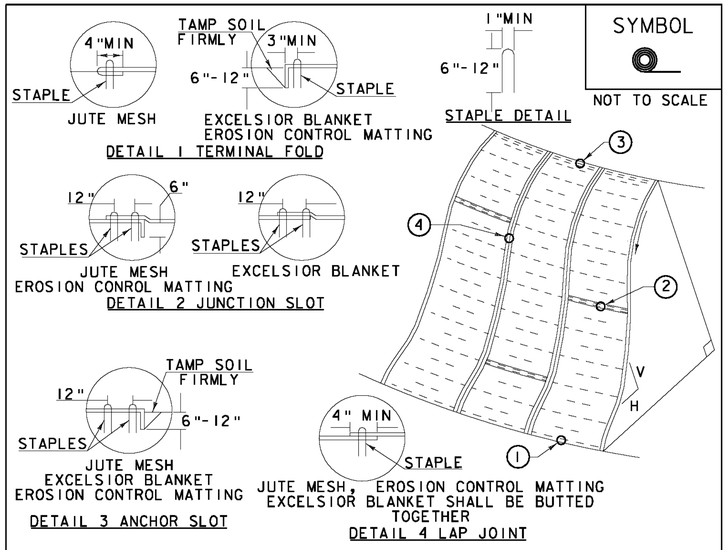
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FILTER FABRIC DROP INLET PROTECTION

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY ITEM 653.40).

REVISIONS	
MARCH 7, 2008	WHF
JANUARY 13, 2009	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20)

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

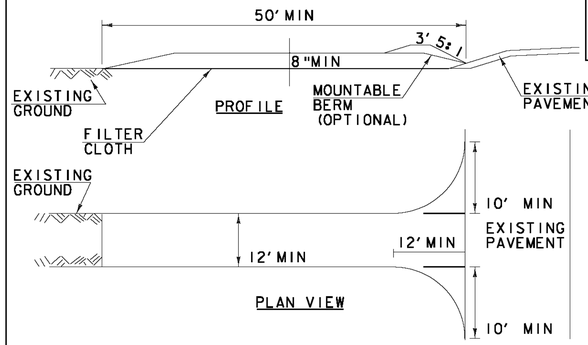
EPSC DETAIL SHEET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85D010_ERO_DET_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
EPSC DETAIL SHEET

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 163 OF 339

VHB Vanasse Hangen Brustlin, Inc.



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED CONSTRUCTION ENTRANCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

VAOT RURAL AREA MIX

	LBS/AC				
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
37.5%	22.5	45	CREEPING RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX

	LBS/AC				
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
42.5%	34	68	CREEPING RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

GENERAL GUIDANCE

FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	19-19-19	PELLETIZED	LIQUID
500 LBS/AC		2 TONS/AC	4.4 GAL/AC

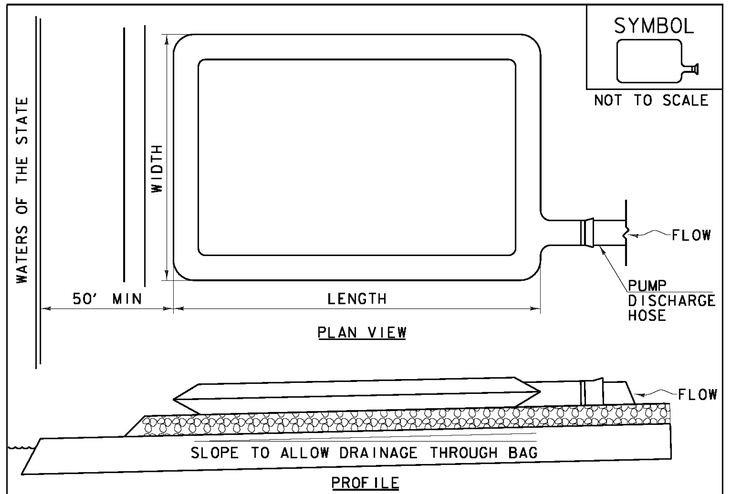
CONSTRUCTION GUIDANCE

1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
7. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
8. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANSCAPE MAUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

REVISIONS	
JUNE 23, 2009	WHF
JANUARY 15, 2010	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. THE PRIMARY PURPOSE OF FILTER BAG IS TO RETAIN SILT, SAND, AND FINES DURING DEWATERING OPERATIONS.
2. FILTER BAGS SHALL BE INSTALLED ON A VEGETATED SLOPE GRADED TO ALLOW INCOMING WATER TO FLOW THROUGH THE BAG.
3. FILTER BAGS MAY ALSO BE PLACED ON COARSE AGGREGATE, STONE, OR HAYBALES TO INCREASE FILTRATION EFFICIENCY.
4. FILTER BAGS SHALL BE LOCATED A MINIMUM OF 50' FROM WATERS OF THE STATE UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. THE NECK OF THE FILTER BAG SHALL BE STRAPPED TIGHTLY TO THE DISCHARGE HOSE.
6. A FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR ALLOW WATER TO PASS AT A REASONABLE RATE.
7. FILTER BAG SHALL BE DISPOSED OF AS APPROVED IN THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

FILTER BAG

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR FILTER BAG (PAY ITEM 653.45) AND AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

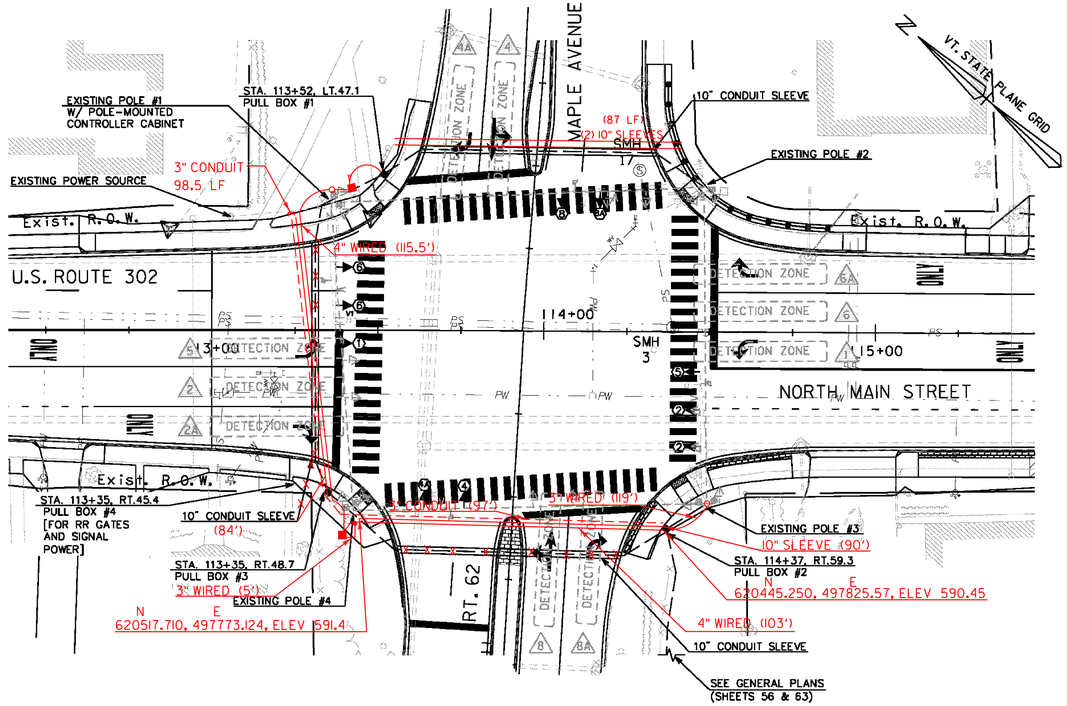
EPSC DETAIL SHEET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

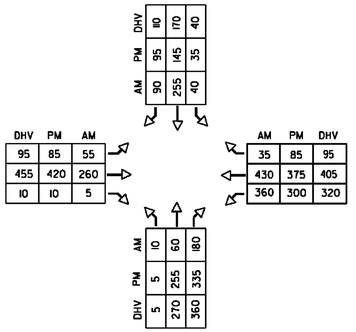
FILE NAME: 85b010_ERO_DET_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
EPSC DETAIL SHEET

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 164 OF 339

VHB Vanasse Hangen Brustlin, Inc.



2012 AVERAGE WEEKDAY TRAFFIC DATA



LIST OF MAJOR EQUIPMENT

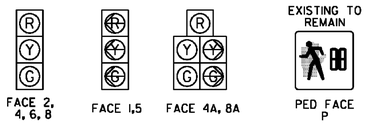
EQUIPMENT ITEM 678.15	QUANTITY
ONE WAY, 3-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK	8
ONE WAY, 5-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK	2
ASTRO-BRACKETS	10
REINSTALL OPTICAL DETECTION EQUIPMENT WITH DETECTOR CABLES	-

WIRED CONDUIT (PVC) AND ELECTRICAL CONDUIT SLEEVE SCHEDULE

ITEM NUMBER	678.21	678.23		678.30	
	ELECTRICAL CONDUIT	WIRED CONDUIT		CONDUIT SLEEVE	
FROM/TO	3"	3"	4"	10"	DESCRIPTION
CABINET TO PB #3	~~66~~ 98.5		~~86~~ 118.5	~~66~~ 84	EX POLE SW, EX POLE SE, RR PREEMPT
PB #3 TO EX POLE SW		~~10~~ 5			EX POLE SW
PB #3 TO PB #2	~~68~~ 97.0		~~112~~ 103	~~68~~ 90	EX POLE SE, RR PREEMPT
PB #2 TO EX POLE SE		~~15~~ 19			EX POLE SE
CABINET TO PB #1		~~15~~ 18			EX POLE NE
PB #1 TO EX POLE NE	71	~~103~~ 132		~~71~~ 87	EX POLE NE
PB PREEMPT TO PB #2		~~203~~ 205			RR GATES AND SIGNAL POWER
SUB-TOTALS	~~205~~ 195	346	198	~~205~~ 26	
ROUNDING	0	4	2	0	
TOTALS	~~205~~ 195	350	200	~~205~~ 26	

SIGNAL FACE ARRANGEMENT

(12" LED LENSES W/ 5" BACKPLATES)



AT THE COMPLETION OF PHASE IE, REINSTALL SALVAGED MAST ARMS AND INSTALL NEW SIGNAL HEADS ON NEW BRACKETS.

EQUIPMENT NOTES

(A) SEE STANDARDS E-170, E-171A, E-171B, 171C, 173, & 175 FOR ADDITIONAL INFORMATION.

(B) FOR SIGN DETAILS, SEE SHEETS 85-113.

(C) SEE SHEETS 172, 174, 176, 178, & 180-191 FOR ADDITIONAL DETAILS FOR TRAFFIC CONTROL, CONSTRUCTION, AND PHASING.

LEGEND

NEW	EXISTING	LEGEND
		CONTROLLER CABINET
		SIGNAL HEAD
		CONDUIT
		OPTICAL DETECTION ZONE
		PEDESTAL POST
		STANCHION
		EMERGENCY VEHICLE PREEMPTION STROBE
		EMERGENCY VEHICLE PREEMPTION RECEIVER
		PEDESTRIAN PUSH BUTTON
		PULL BOX
		OVERHEAD SIGN
		RADIO ANTENNA
		OPTICAL DETECTION
		MAST ARM

EXISTING DETECTION SCHEDULE

OPTICAL VIDEO DETECTORS							
LOOP NO.	LANE	CALL Ø	SIZE	TYPE & NO. TURNS	DELAY OR PRESENCE	SLOT	CHANNEL
1	WBLT	1	6X40	OPTICAL	PRESENCE	2	1
2	EBTH	2	6X40	OPTICAL	PRESENCE	4	2
2A	EBRT	2	6X40	OPTICAL	5 SEC DELAY	4	3
4	SBTH	4	6X40	OPTICAL	PRESENCE	6	1
4A	SBRT	4	6X40	OPTICAL	5 SEC DELAY	6	2
5	EBLT	5	6X40	OPTICAL	PRESENCE	4	1
6	WBTH	6	6X40	OPTICAL	PRESENCE	2	2
6A	WBRT	6	6X40	OPTICAL	5 SEC DELAY	2	3
8	NBLT	8	6X40	OPTICAL	PRESENCE	8	1
8A	NBRT	8	6X40	OPTICAL	5 SEC DELAY	8	2

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN ST AND MAPLE AVE / RT 62

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z085b010_TSPS1.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TRAFFIC SIGNAL PLAN

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 165 OF 339

TRAFFIC SIGNAL NOTES

A. NEW EQUIPMENT

1. ALL SIGNAL HEADS MOUNTED ON CANTILEVER ARMS SHALL BE POLYCARBONATE. BACKPLATES SHALL BE REQUIRED ON ALL SIGNAL HEADS. SIGNAL HEADS SHALL BE EQUIPPED FOR RIGID MOUNTING ON MAST ARMS.

2. ALL SIGNAL HEADS SHALL BE LIGHT EMITTING DIODES (LED).

3. ALL SIGNAL EQUIPMENT SHALL BE PAINTED FLAT BLACK IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

B. SIGNAL OPERATION

1. SIGNAL TIMING SHOWN ON THE PLANS SHALL BE IMPLEMENTED AT THE COMPLETION OF THE TEMPORARY TRAFFIC SIGNAL PHASING. SIGNAL TIMING MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC PATTERNS AND CONDITIONS.

2. THE SIGNAL SHALL BEGIN WITH PHASES 2 & 6 FOLLOWING FLASHING OPERATIONS.

3. PEDESTRIAN MOVEMENTS ARE CONCURRENT WITH AUDIBLE INDICATIONS.

C. TRAFFIC SIGNAL CONDUIT

1. ALL TRAFFIC SIGNAL WIRED CONDUIT SHALL BE 3-INCH OR 4-INCH PVC, SCHEDULE 80.

2. WHEN CONDUIT IS PLACED BELOW THE TRAVELED ROADWAY, IT SHALL BE PLACED IN AN 8-INCH PVC ELECTRICAL CONDUIT SLEEVE, SCHEDULE 80.

D. OPTICAL VEHICLE DETECTION

1. ALL OPTICAL DETECTION CABLES SHALL BE LABELED WITH THE PHASE NUMBERS AND APPROACH DIRECTION CONTROLLED BY THE OPTICAL DETECTION UNIT (PHASE 1&6, WB)

2. ALL PROGRAMMED DETECTION ZONES SHALL FAIL IN THE "ON" MODE.

3. NO SPLICES SHALL BE PERMITTED IN THE OPTICAL DETECTION CABLES.

4. VIDEO DETECTION ZONES SHALL BEGIN AT 5 FEET IN FRONT OF THE STOP LINE AND EXTEND AT LEAST 40 FEET.

5. FINAL VIDEO DETECTION CAMERA AIM AND DETECTION ZONE PLACEMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND THE RESIDENT ENGINEER.

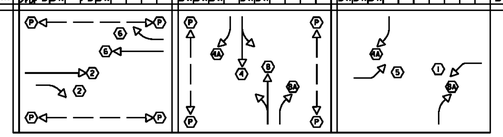
E. GENERAL

1. INTERSECTION SHALL BE INTERCONNECTED WITH THE INTERSECTION AT MAPLE AVENUE AND SUMMER STREET VIA WIRELESS RADIO SYSTEM. ANTENNA SHALL BE SECURELY MOUNTED TO MAST ARM POLE EXTENSION OR AS DIRECTED BY THE ENGINEER.

2. INTERSECTION SHALL INCLUDE AN EMERGENCY VEHICLE PREEMPTION SYSTEM AS APPROVED BY THE CITY OF BARRE FIRE DEPARTMENT.
   PREEMPT #3 - RECEIVER 1 CALLS PHASES 1 & 6
   PREEMPT #4 - RECEIVER 2 CALLS PHASES 2 & 5
   PREEMPT #5 - RECEIVER 3 CALLS PHASE 8
   PREEMPT #6 - RECEIVER 4 CALLS PHASE 4

TIMING AND PHASING

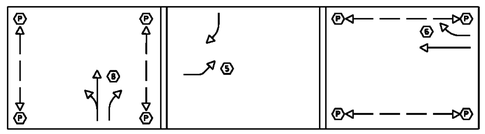
		PHASE 2+6 (DWELL)					PHASE 4+8					PHASE 1+5					
		R/Y/G	CLEAR TO Ø4+8		CLEAR TO Ø1+5		R/Y/G	CLEAR TO Ø1+5		CLEAR TO Ø2+6		R/Y/G	CLEAR TO Ø 2+6				FLASHING OPERATION
OFF PEAK REST OF DAY	VEHICLE	-	1				2					2					
	MINIMUM	5/23	4	3	4	3	5/25	4	2	4	2	5/18	4	2			
	MAXIMUM	30	4	3	4	3	25	4	2	4	2	5/9	4	2			
	MAXIMUM2	45	4	3	4	3	30	4	2	4	2	5/9	4	2			
	PED ACT																
AM PEAK 7-9 AM	VEHICLE	-					2					2					
	MINIMUM	5/23	4	3	4	3	5/25	4	2	4	2	5/18	4	2			
	MAXIMUM	45	4	3	4	3	25	4	2	4	2	5/9	4	2			
	MAXIMUM2	60	4	3	4	3	40	4	2	4	2	5/9	4	2			
	PED ACT																
PM PEAK 3-6 PM	VEHICLE	-					2					2					
	MINIMUM	5/23	4	3	4	3	5/25	4	2	4	2	5/18	4	2			
	MAXIMUM	45	4	3	4	3	35	4	2	4	2	5/9	4	2			
	MAXIMUM3	60	4	3	4	3	50	4	2	4	2	5/9	4	2			
	PED ACT																
FACE 1		G	Y	R	Y	R	R	R	R	R	R	R	R	R			FY
FACE 2		G	Y	R	Y	R	R	R	R	R	R	R	R	R			FY
FACE 4		R	R	R	R	R	G	Y	R	Y	R	R	R	R			FR
FACE 4A		R	R	R	R	R	G	Y	R	Y	R	5/9	4	R			FR
FACE 5		G	Y	R	Y	R	R	R	R	R	R	R	R	R			FY
FACE 6		G	Y	R	Y	R	R	R	R	R	R	R	R	R			FY
FACE 8		R	R	R	R	R	G	Y	R	Y	R	R	R	R			FR
FACE 8A		R	R	R	R	R	G	Y	R	Y	R	5/9	4	R			FR
PED (N-S)		DW	DW	DW	DW	DW	5/23	FD	DW	FD	DW	DW	DW	DW			B
PED (E-W)		5/23	FD	DW	FD	DW	DW	DW	DW	DW	DW	DW	DW	DW			B



W = WALK, FD = FLASHING DON'T WALK, DW = DON'T WALK, B = BLANK, FR = FLASHING RED, FY = FLASHING YELLOW

1. FACE NUMBERS ARE BASED ON NEMA PHASES
2. EASTBOUND AND WESTBOUND LEFT-TURNS SHALL OPERATE UNDER LEADING PROTECTED ONLY LEFT-TURN PHASING.

RAILROAD PRE-EMPTION



DWELL IN PHASE 6 UNTIL THE END OF PREEMPTION

AT THE COMPLETION OF THE PREEMPTION CYCLE, RETURN TO PHASES 2+6

PROGRAM PERIODS OF OPERATION

	1 2 3 4 5 6 7 8 9 10 11 12 AM	1 2 3 4 5 6 7 8 9 10 11 12 PM	AM
SUNDAY	1		
MONDAY	1 2	1 3	1
TUESDAY	1 2	1 3	1
WEDNESDAY	1 2	1 3	1
THURSDAY	1 2	1 3	1
FRIDAY	1 2	1 3	1
SATURDAY	1		

NOTES:

PLAN 1 - OFFPEAK (MAXIMUM 1): MIDNIGHT TO 7:00 AM, M-F; 9:00 AM TO 3:00 PM, M-F; 6:00 PM TO MIDNIGHT, M-F; ALL DAY SATURDAY AND SUNDAY

PLAN 2 - AM PEAK (MAXIMUM 2): 7:00 AM TO 9:00 AM, M-F

PLAN 3 - PM PEAK (MAXIMUM 3): 3:00 PM TO 6:00 PM, M-F

COORDINATION CYCLE/SPLIT OFFSET SCHEDULE

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	80	80	FREE
COS	111	121	131	-
OFFSET	49	49	50	-
SPLIT TIME 01	11	11	13	-
SPLIT TIME 02	38	37	36	-
SPLIT TIME 03	0	0	0	-
SPLIT TIME 04	31	32	31	-
SPLIT TIME 05	27	20	21	-
SPLIT TIME 06	22	28	28	-
SPLIT TIME 07	0	0	0	-
SPLIT TIME 08	31	32	31	-

COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED GREEN PHASE (04 & 08)

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

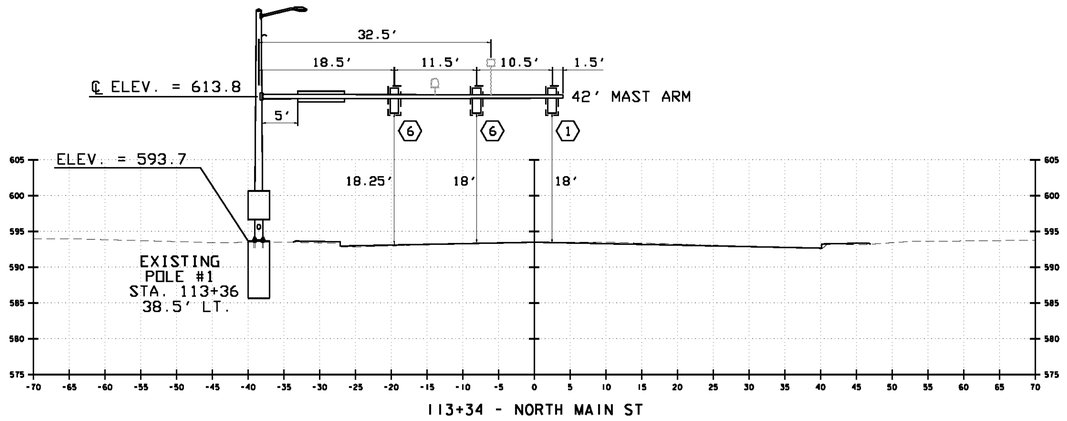
NORTH MAIN ST AND MAPLE AVE / RT 62

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

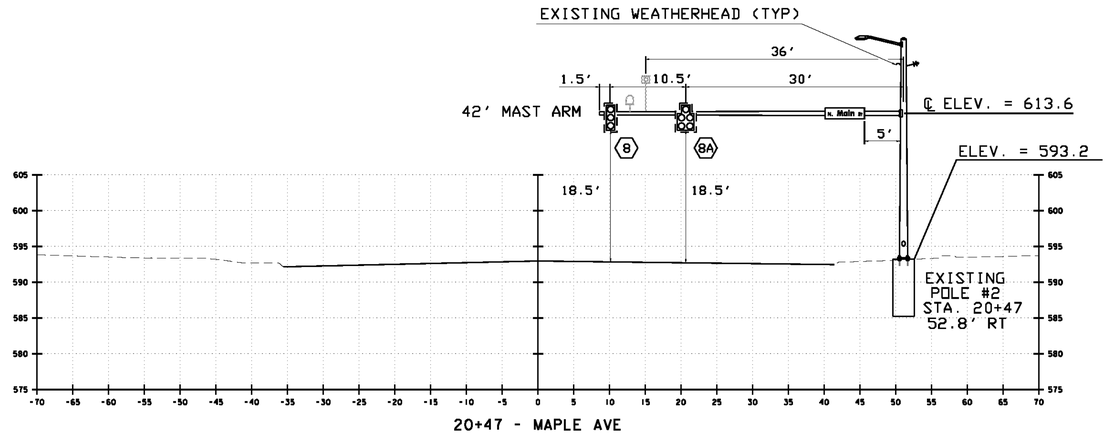
FILE NAME: z85b010_TSPS1A.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TRAFFIC SIGNAL PLAN

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 166 OF 339

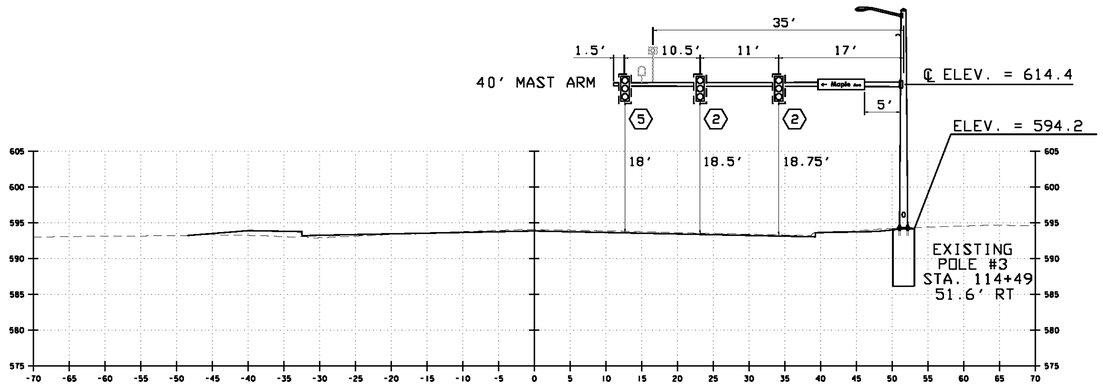
VHB Vanasse Hangen Brustlin, Inc.



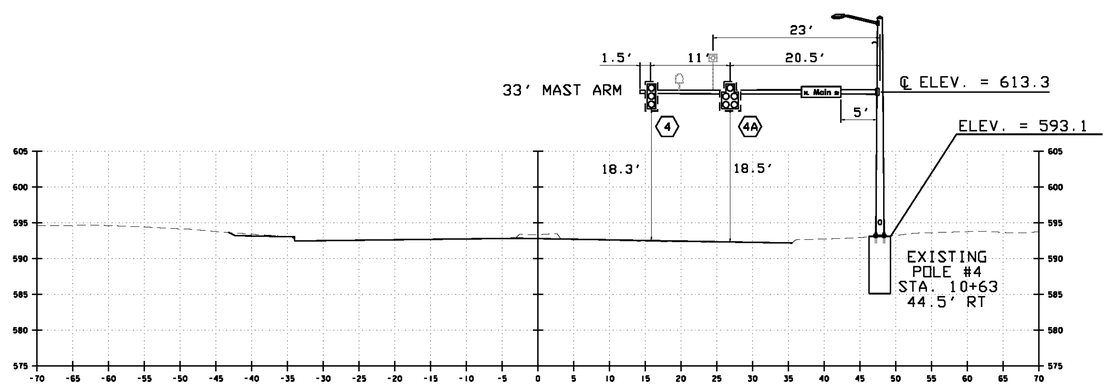
113+34 - NORTH MAIN ST



20+47 - MAPLE AVE



114+51 - NORTH MAIN ST



10+63 - VT 62

NOTES:

1. LOCATIONS OF OPTICAL DETECTION EQUIPMENT AND WIRELESS EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS FOR OPTICAL DETECTION EQUIPMENT AND WIRELESS EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AND THE ENGINEER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2. CROSS-SECTIONS SHOW LOCATION OF SIGNS AND SIGNALS AT THE COMPLETION OF THE TEMPORARY SIGNAL PHASING.

DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

NORTH MAIN ST AND MAPLE AVE / RT 62

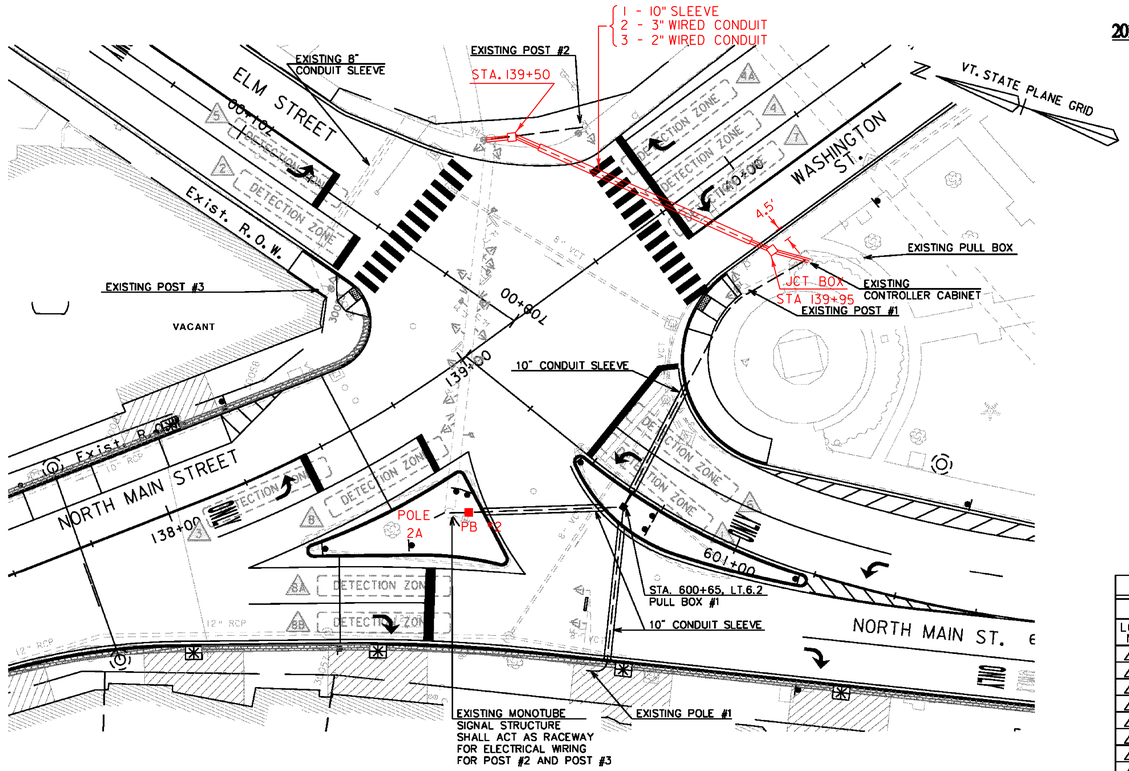
PROJECT NAME: BARRE CITY

PROJECT NUMBER: FEGC F 026-I(34) C/2

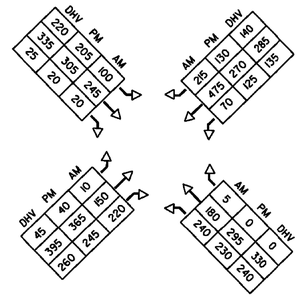
FILE NAME: z85b010_TSPSIC.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TRAFFIC SIGNAL PLAN

PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 167 OF 339

VHB Vanasse Hangen Brustlin, Inc.



2012 AVERAGE WEEKDAY TRAFFIC DATA



EXISTING DETECTION SCHEDULE

OPTICAL VIDEO DETECTORS							
LOOP NO.	LANE	CALL Ø	SIZE	TYPE & NO. TURNS	DELAY OR PRESENCE	SLOT	CHANNEL
1	NBLT	1	6X40	OPTICAL	PRESENCE	2	1
2	SBTH	2	6X40	OPTICAL	PRESENCE	4	2
3	EBLT	3	6X40	OPTICAL	PRESENCE	6	1
4	WBTH	4	6X40	OPTICAL	PRESENCE	8	2
4A	WBRT	4	6X40	OPTICAL	5 SEC DELAY	8	3
5	SBLT	5	6X40	OPTICAL	PRESENCE	4	1
6	NBTH	6	6X40	OPTICAL	PRESENCE	2	2
7	WBLT	7	6X40	OPTICAL	PRESENCE	8	1
8	EBTH	8	6X40	OPTICAL	PRESENCE	6	2
8A	EBRTI	8	6X40	OPTICAL	PRESENCE	8	4
88	EBRT2	8	6X40	OPTICAL	PRESENCE	8	4

LEGEND

EXISTING	LEGEND
	CONTROLLER CABINET
	SIGNAL HEAD
	CONDUIT
	OPTICAL DETECTION ZONE
	PEDESTAL POST
	STANCHION
	EMERGENCY VEHICLE PREEMPTION STROBE
	EMERGENCY VEHICLE PREEMPTION RECEIVER
	PEDESTRIAN PUSH BUTTON
	PULL BOX
	OVERHEAD SIGN
	RADIO ANTENNA
	OPTICAL DETECTION
	MAST ARM
	SIGNAL MONOTUBE STRUCTURE

WIRED CONDUIT (PVC) AND ELECTRICAL CONDUIT SLEEVE SCHEDULE

ITEM NUMBER	678.24	678.23		678.30	
	ELECTRICAL WIRING	WIRED CONDUIT		CONDUIT SLEEVE	
FROM/TO		3"	4"	10"	DESCRIPTION
CABINET TO PB #1			212	37	MONOTUBE, POLE #1, POST #2, POST #3
PB #1 TO MONOTUBE STRUCTURE			54	37	MONOTUBE, POST #2, POST #3
PB #1 TO EX POLE #1		54		39	POST #1
USE SIGNAL MONOTUBE AS RACEWAY	152				MONOTUBE, POST #2, POST #3
MONOTUBE TO POST #2		29			POST #2
MONOTUBE TO POST #3		214			POST #3
SUB-TOTALS	152	297	266	113	
ROUNDING	3	3	4	2	
TOTALS	155	300	270	115	

EQUIPMENT NOTES

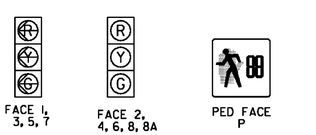
(A) SEE STANDARDS E-170, E-171A, E-171B, 171C, 173, & 175 FOR ADDITIONAL INFORMATION.

(B) FOR SIGN DETAILS, SEE SHEET 100.

(C) SEE SHEETS 172, 184-188, AND 192 FOR ADDITIONAL DETAILS FOR TRAFFIC CONTROL, CONSTRUCTION, AND PHASING.

EXISTING SIGNAL FACE ARRANGEMENT

(12" LED LENSES W/ 5" BACKPLATES)



DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN ST AND ELM ST/WASHINGTON ST

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_TSPS2.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TRAFFIC SIGNAL PLAN
PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 168 OF 339

TRAFFIC SIGNAL NOTES

A. SIGNAL OPERATION

1. SIGNAL TIMING SHOWN ON THE PLANS SHALL BE IMPLEMENTED AT THE COMPLETION OF THE TRAFFIC SIGNAL CONSTRUCTION. SIGNAL TIMING SHOWN ON THE PLANS MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC PATTERNS AND CONDITIONS.

2. THE SIGNAL SHALL BEGIN WITH PHASES 2 & 6 FOLLOWING FLASHING OPERATIONS.

3. PEDESTRIAN MOVEMENTS ARE CONCURRENT WITH AUDIBLE INDICATIONS.

B. TRAFFIC SIGNAL CONDUIT

1. ALL TRAFFIC SIGNAL WIRED CONDUIT SHALL BE 3-INCH OR 4-INCH PVC, SCHEDULE 80.

2. WHEN CONDUIT IS PLACED BELOW THE TRAVELED ROADWAY, IT SHALL BE PLACED IN AN 8-INCH PVC ELECTRICAL CONDUIT SLEEVE, SCHEDULE 80.

C. OPTICAL VEHICLE DETECTION

1. ALL OPTICAL DETECTION CABLES SHALL BE LABELED WITH THE PHASE NUMBERS AND APPROACH DIRECTION CONTROLLED BY THE OPTICAL DETECTION UNIT (PHASE 1&6, WB)

2. ALL PROGRAMMED DETECTION ZONES SHALL FAIL IN THE "ON" MODE.

3. NO SPLICES SHALL BE PERMITTED IN THE OPTICAL DETECTION CABLES.

4. VIDEO DETECTION ZONES SHALL BEGIN AT 5 FEET IN FRONT OF THE STOP LINE AND EXTEND AT LEAST 40 FEET.

5. FINAL VIDEO DETECTION CAMERA AIM AND DETECTION ZONE PLACEMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND THE RESIDENT ENGINEER.

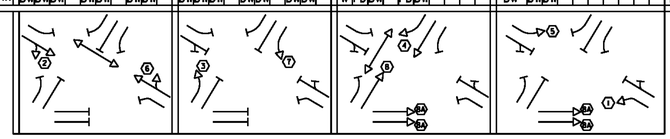
D. GENERAL

1. INTERSECTION SHALL BE INTERCONNECTED WITH THE INTERSECTION AT N./S. MAIN ST. AND PROSPECT ST./CHURCH ST. ANTENNA SHALL BE SECURELY MOUNTED TO LIGHTING ARM EXTENSION OR AS DIRECTED BY THE ENGINEER.

2. INTERSECTION SHALL INCLUDE AN EMERGENCY VEHICLE PREEMPTION SYSTEM AS APPROVED BY THE CITY OF BARRE FIRE DEPARTMENT.
   PREEMPT #3 - RECEIVER 1 CALLS PHASES 1 & 6
   PREEMPT #4 - RECEIVER 2 CALLS PHASES 2 & 5
   PREEMPT #5 - RECEIVER 3 CALLS PHASE 3 & 8
   PREEMPT #6 - RECEIVER 4 CALLS PHASE 4 & 7

TIMING AND PHASING

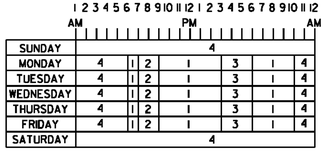
			PHASE 2+6 (DWELL)								PHASE 3+7								PHASE 4+8								PHASE 1+5							
				CLEAR TO								CLEAR TO								CLEAR TO								CLEAR TO						
				Ø 3+7			Ø 4+8		Ø 1+5			Ø 4+8		Ø 1+5		Ø 2+6				Ø 1+5		Ø 2+6						Ø 2+6						
OFF PEAK REST OF DAY	VEHICLE	2									2								2														
	MINIMUM	9/13	4	3		4	3		4	3	8	4	3		4	3		4	3	9/10	4	3		4	3		8	4	3				
	MAXIMUM	40	4	3		4	3		4	3	10	4	3		4	3		4	3	25	4	3		4	3		15	4	3				
	MAXIMUM2	45	4	3		4	3		4	3	15	4	3		4	3		4	3	30	4	3		4	3		20	4	3				
	MAXIMUM3			4	3		4	3		4	3		4	3		4	3				4	3		4	3				4	3				
	PED ACT																																
AM PEAK 7-9 AM	VEHICLE	2									2								2														
	MINIMUM	9/13	4	3		4	3		4	3	8	4	3		4	3		4	3	9/10	4	3		4	3		8	4	3				
	MAXIMUM	40	4	3		4	3		4	3	10	4	3		4	3		4	3	25	4	3		4	3		15	4	3				
	MAXIMUM2	45	4	3		4	3		4	3	15	4	3		4	3		4	3	30	4	3		4	3		20	4	3				
	MAXIMUM3			4	3		4	3		4	3		4	3		4	3				4	3		4	3				4	3				
	PED ACT																																
PM PEAK 3-6 PM	VEHICLE	2									2								2														
	MINIMUM	9/13	4	3		4	3		4	3	8	4	3		4	3		4	3	9/10	4	3		4	3		8	4	3				
	MAXIMUM	40	4	3		4	3		4	3	10	4	3		4	3		4	3	25	4	3		4	3		15	4	3				
	MAXIMUM2	45	4	3		4	3		4	3	15	4	3		4	3		4	3	30	4	3		4	3		20	4	3				
	MAXIMUM3			4	3		4	3		4	3		4	3		4	3				4	3		4	3				4	3				
	PED ACT																																
FLASHING OPERATION	FACE 1		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R				FR (ARROW)
	FACE 2		G	Y	R	Y	R		Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				FY
	FACE 3		R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R				FR (ARROW)
	FACE 4		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R				FR
	FACE 5		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R				FR (ARROW)
	FACE 6		G	Y	R	Y	R		Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				FY
	FACE 7		R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R				FR (ARROW)
	FACE 8		R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R	R	R				FR
	FACE 8A		R	R	R	R	R		R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	G	Y	R				FR
	PED (N-S)		W	FD	DW		FD	DW		FD	DW	DW	DW	DW		DW	DW		DW	DW	DW	DW		DW	DW		DW	DW					DARK
	PED (E-W)		DW	DW	DW		DW	DW		DW	DW	DW	DW	DW		DW	DW		DW	W	FD	DW		FD	DW		DW	DW					DARK



W = WALK, FD = FLASHING DON'T WALK, DW = DON'T WALK, B = BLANK, FR = FLASHING RED, FY = FLASHING YELLOW

1. FACE NUMBERS ARE BASED ON NEMA PHASES
2. ALL LEFT-TURN PHASES SHALL OPERATE UNDER PROTECTED LEFT-TURN PHASING.
3. EASTBOUND RIGHT TURNS (8A) SHALL OVERLAP PHASE 1

PROGRAM PERIODS OF OPERATION



SUNDAY	4						
MONDAY	4	1	2	1	3	1	4
TUESDAY	4	1	2	1	3	1	4
WEDNESDAY	4	1	2	1	3	1	4
THURSDAY	4	1	2	1	3	1	4
FRIDAY	4	1	2	1	3	1	4
SATURDAY	4						

NOTES:

PLAN 1 - MIDDAY (MAXIMUM 1): 6:00 AM TO 7:00 AM, M-F; 9:00 AM TO 3:00 PM, M-F; 6:00 PM TO 10:00 PM, M-F

PLAN 2 - AM PEAK (MAXIMUM 2): 7:00 AM TO 9:00 AM, M-F

PLAN 3 - PM PEAK (MAXIMUM 3): 3:00 PM TO 6:00 PM, M-F

PLAN 4 - OFFPEAK (MAXIMUM 1): MIDNIGHT TO 6:00 AM, M-F; 10:00 PM TO MIDNIGHT, M-F; ALL DAY SATURDAYS AND SUNDAYS

COORDINATION CYCLE/SPLIT OFFSET SCHEDULE

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	90	80	FREE
COS	III	221	131	-
OFFSET	0	0	0	-
SPLIT TIME Ø1	20	23	18	-
SPLIT TIME Ø2	20	21	21	-
SPLIT TIME Ø3	11	11	11	-
SPLIT TIME Ø4	29	35	30	-
SPLIT TIME Ø5	15	16	16	-
SPLIT TIME Ø6	25	28	23	-
SPLIT TIME Ø7	11	14	12	-
SPLIT TIME Ø8	29	32	29	-

COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED PHASE (Ø1, NBL)

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

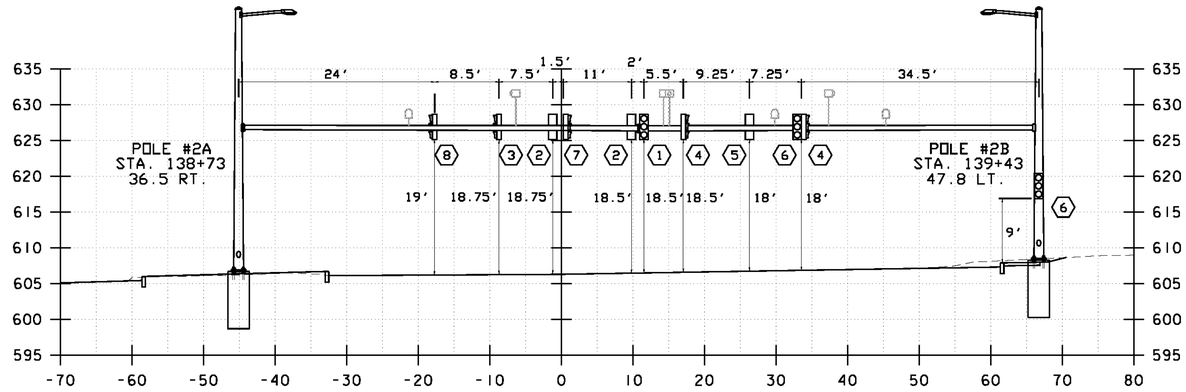
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN ST AND ELM ST/WASHINGTON ST

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_TSPS2A.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TRAFFIC SIGNAL PLAN

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 169 OF 339



600+04 (N. MAIN ST BASELINE - SKEWED)

SUMMARY OF QUANTITIES

WIRED CONDUIT (PVC) AND ELECTRICAL CONDUIT SLEEVE SCHEDULE

ITEM NUMBER	678.21	678.24	678.23			678.30	
	ELECTRICAL CONDUIT	ELECTRICAL WIRING	WIRED CONDUIT			CONDUIT SLEEVE	
	3"		2"	3"	4"	10"	DESCRIPTION
SHEET 165	205			346	198	205	
SHEET 168		152		297	266	113	
SUB-TOTALS	205	152	0	643	464	318	
ROUNDING	0	3	0	7	6	2	
TOTALS	205	155	0	650	470	320	

NOTES:

1. LOCATIONS OF OPTICAL DETECTION EQUIPMENT AND WIRELESS EQUIPMENT ARE APPROXIMATE. FINAL LOCATIONS FOR OPTICAL DETECTION EQUIPMENT AND WIRELESS EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AND THE ENGINEER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
2. CROSS-SECTION SHOWS LOCATION OF SIGNALS AT THE COMPLETION OF THE DETOUR OPERATIONS.

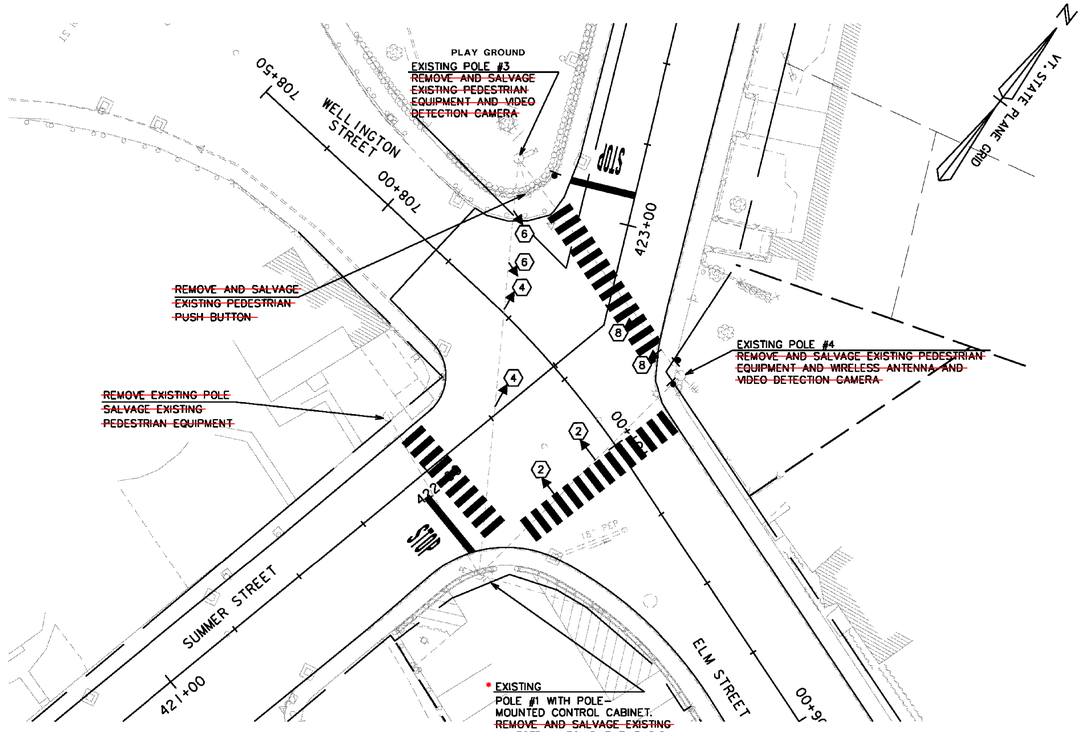
DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

NORTH MAIN ST AND ELM ST/WASHINGTON ST

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

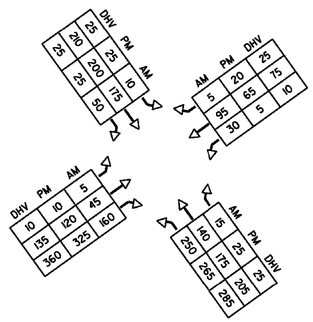
FILE NAME: z85b010_TSPS2D.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TRAFFIC SIGNAL PLAN
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 170 OF 339

VHB Vanasse Hangen Brustlin, Inc.



*THIS INTERSECTION WAS LEFT AS A FULLY SIGNALIZED INTERSECTION PER REQUEST FROM CITY OF BARRE. FLASHING BEACON EQUIPMENT, WHICH HAD BEEN PURCHASED BY SUB-CONTRACTOR, WAS DELIVERED TO THE PROJECT AND TURNED OVER TO VAOT TRAFFIC SHOP.

2012 AVERAGE WEEKDAY TRAFFIC DATA



DATUM

VERTICAL	NAVD 1929
HORIZONTAL	NAD 27

SIGNAL FACE ARRANGEMENT

(12" LED LENSES W/ 5" BACKPLATES)



FACE 2 & 6 FACE 4 & 8

• CONTRACTOR MAY REINSTALL ORIGINAL SIGNAL HEADS 4 REMOVED FOR TEMPORARY TRAFFIC SIGNAL OPERATIONS

LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.17	QUANTITY
~~REMOVE AND SALVAGE SIGNAL HEADS (PED AND VEHICLE)~~	~~12~~
~~REMOVE AND SALVAGE PEDESTRIAN PUSH BUTTONS AND SIGNS~~	~~6~~
• REMOVE AND SALVAGE RADIO INTERCONNECT EQUIPMENT	1
~~REMOVE AND SALVAGE VIDEO DETECTION CAMERAS~~	~~3~~
~~REMOVE AND SALVAGE VIDEO DETECTION EQUIPMENT~~	~~1~~
~~REMOVE AND SALVAGE TRAFFIC SIGNAL CONTROLLER~~	~~1~~
~~FLASHING CONTROL EQUIPMENT~~	~~1~~
~~ONE WAY, SINGLE-SECTION, 12-INCH POLYCARBONATE SPAN-WIRE MOUNTED LED TRAFFIC SIGNAL HEADS WITH TUNNEL VISORS PAINTED FLAT BLACK~~	~~8~~
~~REMOVE AND SALVAGE EMERGENCY VEHICLE PREEMPTION EQUIPMENT~~	~~1~~

• THIS EQUIPMENT REMOVED AND SALVAGED (TO VAOT TRAFFIC SHOP) AND REPLACED WITH GPS UNIT.

LEGEND

EXISTING	LEGEND
	CONTROLLER CABINET
	SIGNAL HEAD
	CONDUIT
	OPTICAL DETECTION ZONE
	PEDESTAL POST
	STANCHION
	EMERGENCY VEHICLE PREEMPTION STROBE
	EMERGENCY VEHICLE PREEMPTION RECEIVER
	PEDESTRIAN PUSH BUTTON
	PULL BOX
	OVERHEAD SIGN
	RADIO ANTENNA
	OPTICAL DETECTION
	MAST ARM
	STEEL STRAIN POLE

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

FLASHING BEACON, AERIAL MOUNTED
SUMMER ST AND ELM ST/WELLINGTON ST

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010_TSPS5-PERM.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TRAFFIC SIGNAL PLAN

PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 171 OF 339

GENERAL

THE FOLLOWING TRAFFIC CONTROL INFORMATION AND PHASING PLAN IS INTENDED TO BE A CONCEPTUAL PLAN FOR HOW THE WORK MAY PROCEED. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN TO THE VERMONT AGENCY OF TRANSPORTATION (VAOT) ROADWAY DESIGN ENGINEER, VIA THE ENGINEER. THE CONTRACTOR SHALL ALLOW AT LEAST TWO (2) WEEKS FOR VAOT REVIEW AND APPROVAL. ALL CHANGES TO THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY VAOT. MODIFICATIONS TO THE APPROVED TRAFFIC CONTROL PLAN FOR VEHICLES OR PEDESTRIANS SHALL BE SUBMITTED TO THE ENGINEER AT LEAST TWO WEEKS PRIOR TO THE IMPLEMENTATION OF THE CHANGE.

THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL BE DEVELOPED IN ACCORDANCE WITH THE 2006 EDITION OF VTRANS STANDARD SPECIFICATIONS SECTION 641 - TRAFFIC CONTROL AND IN SUBSTANTIAL CONFORMANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH LATEST INTERIMS. THE PLAN SHALL ACCOMMODATE VEHICLE TRAFFIC, PEDESTRIAN TRAFFIC, AND EMERGENCY SERVICES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL TEMPORARY SIGNS, PAVEMENT MARKINGS, CHANNELIZING DEVICES, PORTABLE MESSAGE BOARDS, ARROW PANELS, AND OTHER DEVICES REQUIRED TO PROVIDE COMPLETE MANAGEMENT OF TRAFFIC. ANY SIGNS NOT INCLUDED IN THE FHWA STANDARD HIGHWAY SIGNS BOOK SHALL INCLUDE SIGN FACE DIMENSIONS AND LAYOUT.

THE RECONSTRUCTION OF NORTH MAIN STREET SHALL INCLUDE THE USE OF DETOUR ROUTES. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USING A COMBINATION OF THROUGH ROUTE DETOURS AND LOCAL ACCESS DETOURS AS DETERMINED BY THE APPROVED TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, ERECTING, MAINTAINING, AND REMOVING ALL TEMPORARY AND DETOUR SIGNING ALONG THE DETOUR ROUTES AS SHOWN IN THE PLANS, AS REQUIRED BY SITE SPECIFIC WORK, AND AS DIRECTED BY THE ENGINEER.

MODIFICATIONS TO THE EXISTING SIGNAL SYSTEMS, INCLUDING THE INSTALLATION AND ADJUSTMENT OF TEMPORARY TRAFFIC SIGNAL SYSTEMS AT THE INTERSECTIONS OF N. MAIN STREET AT MAPLE AVENUE/ROUTE 62, N. MAIN STREET AT ELM STREET/WASHINGTON STREET, MAPLE AVENUE AT SUMMER STREET, AND SUMMER STREET AT ELM STREET/WELLINGTON STREET SHALL BE REQUIRED AS PART OF THE DETOUR ROUTES. ALL TRAFFIC CONTROL DETAILS SHALL BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE MUTCD, VAOT STANDARDS, AND THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLANS.

THE RECONSTRUCTION OF NORTH MAIN STREET SHALL BEGIN NEAR THE INTERSECTION OF MAPLE AVENUE/ROUTE 62, PROGRESSING EASTWARD TOWARDS CITY PARK. THE WORK SHALL BE STAGED ACCORDING TO THE CONSTRUCTION AND DETOUR SIGNING PLANS (SHEETS 173-188) AND AS APPROVED BY THE ENGINEER.

DURING THE STAGED CONSTRUCTION OF NORTH MAIN STREET, DETOUR PLANS SHALL BE ESTABLISHED TO MAINTAIN THE CONTINUITY OF VEHICLE AND PEDESTRIAN TRAFFIC THROUGH THE CORRIDOR. DETOUR SIGNS SHALL BE ADJUSTED AT THE COMPLETION OF EACH CONSTRUCTION PHASE AS SHOWN ON THE DETOUR PLANS AND AS DIRECTED BY THE ENGINEER. TRAFFIC SIGNAL TIMING AND PHASING SHALL BE ADJUSTED DURING DETOUR OPERATIONS AS NEEDED AND WITH THE APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN ALL DETOURS, TEMPORARY SIGNING, TEMPORARY TRAFFIC SIGNALS, AND OTHER SUPPORTING TRAFFIC CONTROLS THROUGHOUT CONSTRUCTION. INSTALLING, MAINTAINING, ADJUSTING, MODIFYING, AND REMOVING THE DETOUR AND TRAFFIC CONTROLS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10 TRAFFIC CONTROL. INSTALLING, MAINTAINING, ADJUSTING, MODIFYING, AND REMOVING THE TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 678.40 TEMPORARY TRAFFIC SIGNAL SYSTEM.

TRAFFIC SHALL NOT BE CHANGED FROM ONE PHASE TO THE NEXT UNTIL ALL TEMPORARY MARKINGS, SIGNING, AND TRAFFIC SIGNAL WORK REQUIRED FOR THE SUBSEQUENT PHASE IS COMPLETED. ANY CONFLICTING PAVEMENT MARKINGS SHALL BE MASKED WITH PAVEMENT MARKING MASK OR REMOVED BY GRINDING. EXISTING PAVEMENT MARKINGS THAT ARE TO REMAIN FOR LATER USE SHALL BE MASKED WITH PAVEMENT MARKING MASK. SIGNALIZED INTERSECTIONS SHALL BE CONTROLLED BY UNIFORMED TRAFFIC OFFICERS AT ANY TIME THEY ARE NOT IN NORMAL OPERATION (FULL GREEN-YELLOW-RED COLOR OPERATIONS IN ACCORDANCE WITH THE TEMPORARY OR PERMANENT SIGNAL PLANS). ALL NON-OPERATING TRAFFIC SIGNAL HEADS SHALL BE REMOVED OR COMPLETELY COVERED.

EACH SEGMENT OF ROADWAY CONSTRUCTED SHALL ALLOW FOR FULL-DEPTH EXCAVATION, ALL UTILITY INSTALLATION AND REPLACEMENT, DRAINAGE INSTALLATION, AND THE CONSTRUCTION OF THE ROADWAY TO INCLUDE THE PAVEMENT BASE COURSES. EACH SEGMENT SHALL PROVIDE INTERIM PLACEMENT OF DRAINAGE GRATES AS NEEDED. TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED ON ALL RECONSTRUCTED ROADWAY SEGMENTS PRIOR TO OPENING THAT SEGMENT TO TRAFFIC. UPON COMPLETION OF EACH CONSTRUCTION SEGMENT, THAT SEGMENT SHOULD BE OPENED AND MADE AVAILABLE TO LOCAL TRAFFIC. AT THE COMPLETION OF ALL CONSTRUCTION PHASES, THE CONTRACTOR SHALL APPLY THE BINDER AND TOP COURSE PAVEMENT AND APPLY THE FINAL PAVEMENT MARKINGS.

SEVERAL OF THE CONSTRUCTION PHASES SHOW VEHICULAR TRAFFIC ADJACENT TO CONSTRUCTION WORK AREAS. REFLECTORIZED DRUMS SHALL BE USED TO DELINEATE THE WORK ZONE FROM THE TRAVELED WAY FOR VERTICAL DROP OFFS OF NOT MORE THAN THREE INCHES. FOR VERTICAL GRADE CHANGES GREATER THAN THREE INCHES, THE SLOPE ADJACENT TO THE TRAVELED WAY SHALL BE AT LEAST 4H:1V OR FLATTER WHEN UNATTENDED AND SHALL BE SEPARATED FROM THE TRAVELED WAY BY THREE HORIZONTAL FEET AND REFLECTORIZED DRUMS. FOR SHORT DURATIONS OF NOT MORE THAN THREE DAYS, THE SLOPE ADJACENT TO THE TRAVELED WAY MAY BE 3H:1V BEHIND DRUMS. DURING ACTIVE AND ATTENDED CONSTRUCTION ACTIVITIES, AND IN THE PRESENCE OF UNIFORMED TRAFFIC OFFICERS, THE ADJACENT STREET TRAFFIC SHALL BE A MINIMUM OF THREE FEET FROM THE EDGE OF THE EXCAVATION AND DELINEATED BY REFLECTORIZED DRUMS. IF THE GRADE CHANGE ADJACENT TO THE TRAVELED WAY IS MORE SEVERE THAN THESE CONDITIONS IN A WORK AREA , TEMPORARY CONCRETE BARRIER WALL SHALL BE USED TO SEPARATE THE WORK ZONE FROM ADJACENT TRAFFIC. ALL TEMPORARY CONCRETE BARRIER WALL SHALL HAVE THE BLUNT ENDS THAT FACE ON-COMING TRAFFIC PROTECTED IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE AND VAOT STANDARDS.

EXISTING SIGNS SHALL REMAIN UNTIL THEY ARE NO LONGER REQUIRED. EXISTING SIGNS WHICH CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHALL BE COMPLETELY COVERED WITH SOLID COVERS PAINTED BLACK OR REMOVED/RELOCATED AS NEEDED. TEMPORARY SIGNS SHALL BE INSTALLED AS SHOWN IN THE PLANS AND THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLANS. NEW SIGNING SHALL BE INSTALLED AS IT BECOMES APPLICABLE. ALL PROPOSED SIGNING SHALL BE INSTALLED AND ALL SIGNS TO BE REMOVED SHALL BE REMOVED PRIOR TO THE APPLICATION OF THE FINAL PAVEMENT MARKINGS.

GENERAL (CONT.)

CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS. PEDESTRIAN ACCESS SHALL MEET ALL APPLICABLE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. POSITIVE GUIDANCE SHALL BE PROVIDED TO SEPARATE PEDESTRIAN ACCESS FROM THE WORK AREA AND VERTICAL GRADE CHANGES. ACCESS TO PROPERTIES MAY BE RESTRICTED FOR SHORT DURATIONS OF NOT MORE THAN TWO HOURS WITH THE PERMISSION AND PRIOR NOTIFICATION OF THE OWNER DURING BUSINESS HOURS. CONTRACTOR SHALL COORDINATE MAJOR WORK ADJACENT TO COMMERCIAL AND MUNICIPAL ACCESS AREAS WITH THE OWNER AND CITY AT LEAST ONE WEEK PRIOR TO STARTING THE WORK IN THE AREA.

SPECIAL CARE MUST BE TAKEN TO PROVIDE ACCESS THROUGH THE WORK ZONES FOR EMERGENCY VEHICLES. THE CONTRACTOR SHALL COORDINATE WITH BOTH POLICE AND FIRE DEPARTMENTS TO DETERMINE THEIR MINIMUM ACCESS REQUIREMENTS BEFORE PROCEEDING TO THE NEXT PHASE OF CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT ACCESS IS AVAILABLE TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES.

TRAFFIC MANAGEMENT AND ROADWAY CONSTRUCTION SEQUENCING

THE CONSTRUCTION FOR NORTH MAIN STREET IS EXPECTED TO SPAN MORE THAN TWO CONSTRUCTION SEASONS. THIS WILL LIKELY REQUIRE AT LEAST TWO WINTER SHUTDOWN PERIODS WHEN THE WEATHER IS NOT CONDUCIVE TO CONTINUED CONSTRUCTION ACTIVITIES. THE CONTRACTOR AND ENGINEER SHALL COORDINATE THE BEGINNING AND ENDING OF THE WINTER SHUTDOWN PERIODS IN ACCORDANCE WITH VAOT PROCEDURES. AT LEAST THREE WEEKS PRIOR TO THE ANTICIPATED WINTER SHUTDOWN, THE CONTRACTOR SHALL PREPARE ALL WORK AREAS TO BE REOPENED TO TRAFFIC. THIS INCLUDES PROVIDING A PAVED SURFACE FOR ALL STREETS AND SIDEWALKS, FRESH PAINTED PAVEMENT MARKINGS, AND ALL NECESSARY TRAFFIC SIGNS. IN ADDITION, THE CONTRACTOR SHALL COVER OR REMOVE THE DETOUR SIGNING, REVERT THE TEMPORARY TRAFFIC SIGNAL AT SUMMER STREET/ELM STREET/WELLINGTON STREET TO PRE-EXISTING FLASHING OPERATIONS AND REOPEN THE CLOSED SECTION OF WELLINGTON STREET TO TRAFFIC.

THE FOLLOWING PARAGRAPHS DESCRIBE THE CONCEPTUAL MAJOR PHASES OF CONSTRUCTION. PHASES HAVE BEEN DEVELOPED ON THE BASIS OF MAINTAINING TRAFFIC THROUGHOUT THE PROJECT WHILE MINIMIZING THE IMPACTS TO ADJACENT COMMERCIAL, RESIDENTIAL, AND MUNICIPAL PROPERTIES. EACH PHASE HAS A SPECIFIC CONSTRUCTION AND DETOUR SIGNING PLAN. (ALL STATION REFERENCES ARE APPROXIMATE; ACTUAL BEGIN AND END STATIONS WILL BE DETERMINED BY THE CONTRACTOR AND THE ENGINEER IN THE FIELD. SOME OVERLAP OF PHASES IS EXPECTED.)

PHASE 1 - STA 110+65 TO STA 115+70
THIS PHASE INCLUDES FIVE (5) STAGES FOR THE RECONSTRUCTION OF NORTH MAIN STREET AT THE INTERSECTION OF MAPLE AVENUE/ROUTE 62 UNDER TRAFFIC. THE STAGES ARE:

A - STA 110+65 TO STA 113+85 LEFT

B - STA 113+85 TO STA 115+70 LEFT

C - STA 113+85 TO STA 115+70 RIGHT

D - STA 111+30 TO STA 113+85 RIGHT

E - MEDIANS ALONG MAPLE AVENUE AND ROUTE 62 AND TEMPORARY TRAFFIC SIGNAL ADJUSTMENTS FOR THE DETOUR ROUTE

AT THE BEGINNING OF STAGE A, THE EXISTING TRAFFIC SIGNAL HEADS AT THE INTERSECTION SHALL BE RELOCATED TO THE EXISTING SPAN WIRE BETWEEN THE SIGNAL POLES. THE RELOCATED SIGNAL HEADS SHALL BE TETHERED. THE EXISTING MAST ARMS SHALL BE REMOVED AND CAREFULLY STORED BY THE CONTRACTOR UNTIL THE COMPLETION OF PHASE 1. AT LEAST ONE LANE OF TRAFFIC SHALL BE MAINTAINED ON EACH LEG OF THE INTERSECTION AT ALL TIMES. UNIFORMED TRAFFIC OFFICERS SHALL BE USED FOR TRAFFIC CONTROL WHILE THE SIGNAL OPERATIONS ARE ADJUSTED FROM ONE STAGE TO THE NEXT. REFLECTORIZED DRUMS SHALL BE USED TO DELINEATE TRAVEL LANES. SEE CONSTRUCTION INTERSECTION DETAILS FOR MORE INFORMATION.

DURING STAGE C, THE EXISTING DRIVEWAY AT STA 114+95, LEFT SHALL REMAIN ACCESSIBLE UNLESS THE CONTRACTOR RECEIVES WRITTEN AGREEMENT FROM THE PROPERTY OWNER FOR A TEMPORARY CLOSURE.

AT THE END OF STAGE E, THE EXISTING FLASHING SIGNAL OPERATION AT THE INTERSECTION OF SUMMER STREET AND ELM STREET/WELLINGTON STREET SHALL BE MODIFIED AS DESCRIBED IN THE TEMPORARY TRAFFIC SIGNAL PLANS TO PROVIDE FULL GREEN-YELLOW-RED OPERATIONS. THE SOUTHBOUND/WEST SIDE OF WELLINGTON STREET SHALL BE CLOSED TO THROUGH TRAFFIC, CONVERTING WELLINGTON STREET TO A ONE WAY ROADWAY BETWEEN ELM STREET AND FRANKLIN STREET. THE TEMPORARY DETOUR SIGNING SHALL BE INSTALLED.

AT THE END OF STAGE E, THE EXISTING TRAFFIC SIGNAL AT MAPLE AVENUE AND SUMMER STREET SHALL BE MODIFIED AS DESCRIBED IN THE TEMPORARY TRAFFIC SIGNAL PLANS TO PROVIDE THE NECESSARY DOUBLE LEFT TURNS FROM SUMMER STREET TO MAPLE AVENUE.

PHASE 2 - STA 115+70 TO STA 122+70

THIS PHASE SHALL BEGIN WITH THE INITIATION OF THE SUMMER STREET DETOUR. WESTBOUND THROUGH TRAFFIC SHALL BE DETOURED ALONG ELM STREET, SUMMER STREET, AND MAPLE AVENUE AS SHOWN IN THE CONSTRUCTION AND DETOUR SIGNING PLANS. EASTBOUND THROUGH TRAFFIC SHALL BE DETOURED ALONG MAPLE AVENUE, SUMMER STREET, AND ELM STREET. LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED TO THE BUSINESSES ALONG N. MAIN STREET BETWEEN ELM STREET AND SOUTH SEMINARY STREET.

NORTH MAIN STREET SHALL BE CLOSED BETWEEN STA 115+70 AND STA 122+70 FOR THE INSTALLATION OF UTILITIES, FULL DEPTH RECONSTRUCTION OF N. MAIN STREET, AND FOR SIDEWALK WORK. A MINIMUM OF ONE 12-FOOT LANE SHALL BE MAINTAINED THROUGH THE CONSTRUCTION ZONE FOR USE BY EMERGENCY VEHICLES.

PHASE 3 - STA 122+70 TO STA 130+20

THE EXISTING SUMMER STREET DETOUR SHALL BE MAINTAINED. LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED ALONG N. MAIN STREET BETWEEN MAPLE AVENUE AND THE PLAZA. LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED ALONG N. MAIN STREET BETWEEN ELM STREET AND DEPOT SQUARE. NORTH MAIN STREET SHALL BE CLOSED BETWEEN STA 122+70 AND STA 130+20 FOR THE INSTALLATION OF UTILITIES, FULL DEPTH RECONSTRUCTION OF N. MAIN STREET, AND FOR SIDEWALK WORK. A MINIMUM OF ONE 12-FOOT LANE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION ZONE FOR USE BY EMERGENCY VEHICLES.

PHASE 4 - STA 130+20 TO STA 134+80

THE EXISTING SUMMER STREET DETOUR SHALL BE MAINTAINED. LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED ALONG N. MAIN STREET BETWEEN MAPLE AVENUE AND GRANITE STREET. LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED ALONG N. MAIN STREET BETWEEN ELM STREET AND KEITH AVENUE. LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED ALONG MERCHANTS ROW BETWEEN GRANITE STREET AND PROSPECT STREET. NORTH MAIN STREET SHALL BE CLOSED BETWEEN STA 130+20 AND STA 134+80 FOR THE INSTALLATION OF UTILITIES, FULL DEPTH RECONSTRUCTION OF N. MAIN STREET, AND FOR SIDEWALK WORK. A MINIMUM OF ONE 12-FOOT LANE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION ZONE FOR USE BY EMERGENCY VEHICLES.

PHASE 5 - STA 134+80 TO STA 138+60

THE EXISTING SUMMER STREET DETOUR SHALL BE MAINTAINED. LOCAL TRAFFIC ACCESS SHALL BE MAINTAINED ALONG N. MAIN STREET BETWEEN MAPLE AVENUE AND PEARL STREET. NORTH MAIN STREET SHALL BE CLOSED BETWEEN STA 134+90 AND STA 138+60 FOR THE INSTALLATION OF UTILITIES, FULL DEPTH RECONSTRUCTION OF N. MAIN STREET, AND FOR SIDEWALK WORK. A MINIMUM OF ONE 12-FOOT LANE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION ZONE FOR USE BY EMERGENCY VEHICLES.

PHASE 6 - STA 138+60 TO STA 143+00, STA 700+00 TO STA 701+50, STA 600+00 TO STA 604+25

THIS PHASE REQUIRES THE RECONSTRUCTION OF THE NORTH MAIN STREET/ELM STREET/WASHINGTON STREET INTERSECTION UNDER TRAFFIC. THE EXISTING SUMMER STREET DETOUR SHALL BE MAINTAINED FOR WESTBOUND TRAFFIC. THE EASTBOUND DETOUR MAY BE REMOVED, ALLOWING EASTBOUND TRAFFIC ALONG NORTH MAIN STREET, TO BE ONE WAY EASTBOUND BETWEEN KEITH AVENUE AND ELM STREET.

THE CONSTRUCTION AREA FOR THE SEWER LINE CONNECTION FROM STA 138+60 TO STA 700+75 SHALL BE CLOSED TO TRAFFIC DURING THIS PHASE. ELM STREET SHALL BE ONE WAY NORTHBOUND BETWEEN WASHINGTON STREET AND JEFFERSON STREET.

PHASE 7 - FULL PROJECT LENGTH (NO PLAN)

THIS PHASE SHALL INCLUDE THE REMOVAL OF ALL DETOUR SIGNING, TEMPORARY TRAFFIC SIGNALS, AND OTHER TRAFFIC CONTROL DEVICES. FINAL TRAFFIC PATTERNS WILL BE ESTABLISHED. ALL LANDSCAPING WILL BE COMPLETED. DRAINAGE AND UTILITY STRUCTURES WITHIN THE ROADWAYS SHALL BE ADJUSTED TO FINAL GRADE. ALL ROADWAY SURFACES SHALL BE PAVED TO FINISHED GRADE TO THE LIMITS SHOWN IN THE PLANS. FINAL PAVEMENT MARKINGS SHALL BE APPLIED AND FINAL SIGNING AND TRAFFIC SIGNALS SHALL BE INSTALLED. THE STORED MAST ARMS FROM THE INTERSECTION OF N. MAIN STREET AND MAPLE AVENUE/ROUTE 62 SHALL BE REINSTALLED WITH NEW TRAFFIC SIGNAL HEADS. THE NEW SIGNAL HEADS SHALL BE WIRED USING THE NEW UNDERGROUND CONDUIT.

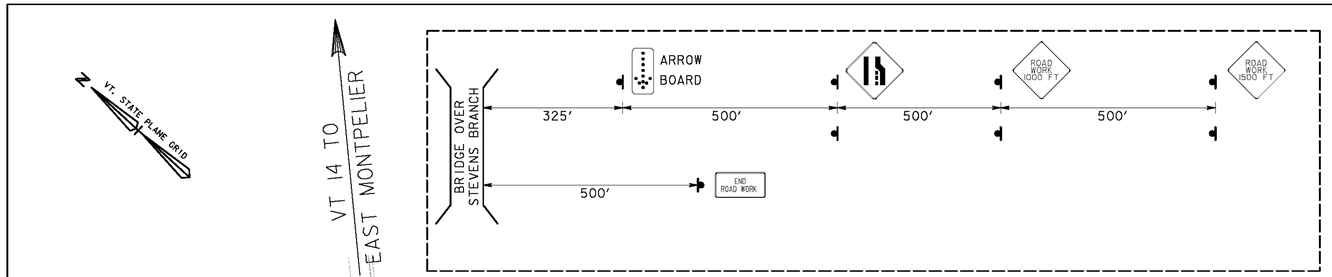
FINAL PAVING SHALL BE PERFORMED AT NIGHT WITH THE HOURS OF OPERATION COORDINATED WITH AND APPROVED BY THE ENGINEER AND THE CITY.

FINAL PAVING IN 2011 SHALL EXTEND TO COTTAGE STREET. FINAL PAVING IN 2012 SHALL EXTEND TO DEPOT SQUARE. THE REMAINING FINAL PAVING SHALL BE COMPLETED IN 2013, TO INCLUDE PAVING ALONG SUMMER STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_TCTRL_C2 | PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS | DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS | CHECKED BY:
TRAFFIC CONTROL NOTES | SHEET 172 OF 339

VHB Vanasse Hangen Brustlin, Inc.



ADVANCED SIGNING ALONG ROUTE 62

(MIRROR FOR LEFT LANE CLOSURES)

VT. STATE PLANE GRID

VT 14 TO EAST MONTPELIER

500'

SEMINARY STREET

LAUREL ST.

GUNNERS CREEK

MAPLE AVENUE (RT 14)

COTTAGE STREET

SOUTH SEMINARY STREET

WEST STREET

MERCHANT ST.

FLANDERS ALLEY

PEARL ST.

KEITH AVE.

SUMMER STREET

TREMONT STREET

FRANKLIN ST.

MALNUT ST.

ELM ST.

PARK STREET

WELLINGTON ST.

JEFFERSON ST.

AVERILL ST.

ACADEMY ST.

CHURCH ST.

ELM STREET

WASHINGTON ST. (US RT 302)

TO ORANGE

TO MONTPELIER

500'

500'

NORTH MAIN ST (US RT 302 / RT 14)

GRANITE STREET

CREAMERY COURT

ENTERPRISE ALLEY

DEPOT SQUARE

MERCHANTS ROW

CHURCH ST.

SOUTH MAIN ST. (RT 14)

RAILROAD TRACKS

PROSPECT ST.

VT 14 TO WILLIAMSTOWN

RAILROAD CROSSING

RT. 62

FOR ADVANCED SIGNING ON ROUTE 62, SEE INSET ABOVE

VT 62 TO I-89

CONSTRUCTION SIGNS

ROAD WORK AHEAD (1) — END DETOUR (4)

ROAD WORK 500 FT (2) — ROAD CLOSED (5)

END ROAD WORK (3) — ROAD CLOSED TO THRU TRAFFIC (5A)

DETOUR WEST 302 ARROW (6) X

DETOUR EAST 302 ARROW (7) X

DETOUR NORTH VERMONT 14 ARROW (8) X

DETOUR SOUTH VERMONT 14 ARROW (9) X

N. MAIN ST DETOUR (10)

N. MAIN ST DETOUR (10A)

N. MAIN ST DETOUR (11)

N. MAIN ST DETOUR (11A)

N. MAIN ST DETOUR (12)

DETOUR (13)

DETOUR (13A)

DETOUR AHEAD (14)

ARROW LEGEND

X = L

X = R

X = AL

X = AR

X = T

LEGEND

PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.

PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.

CONSTRUCTION AREA

DESIGNATED DETOUR ROUTE

CONSTRUCTION SIGN

TYPE I/2/3 BARRICADE

BARRICADE WITH SIGNS

LOCAL TRAFFIC ACCESS

125 0 125 250

FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE IA

PROJECT NAME: BARRE CITY

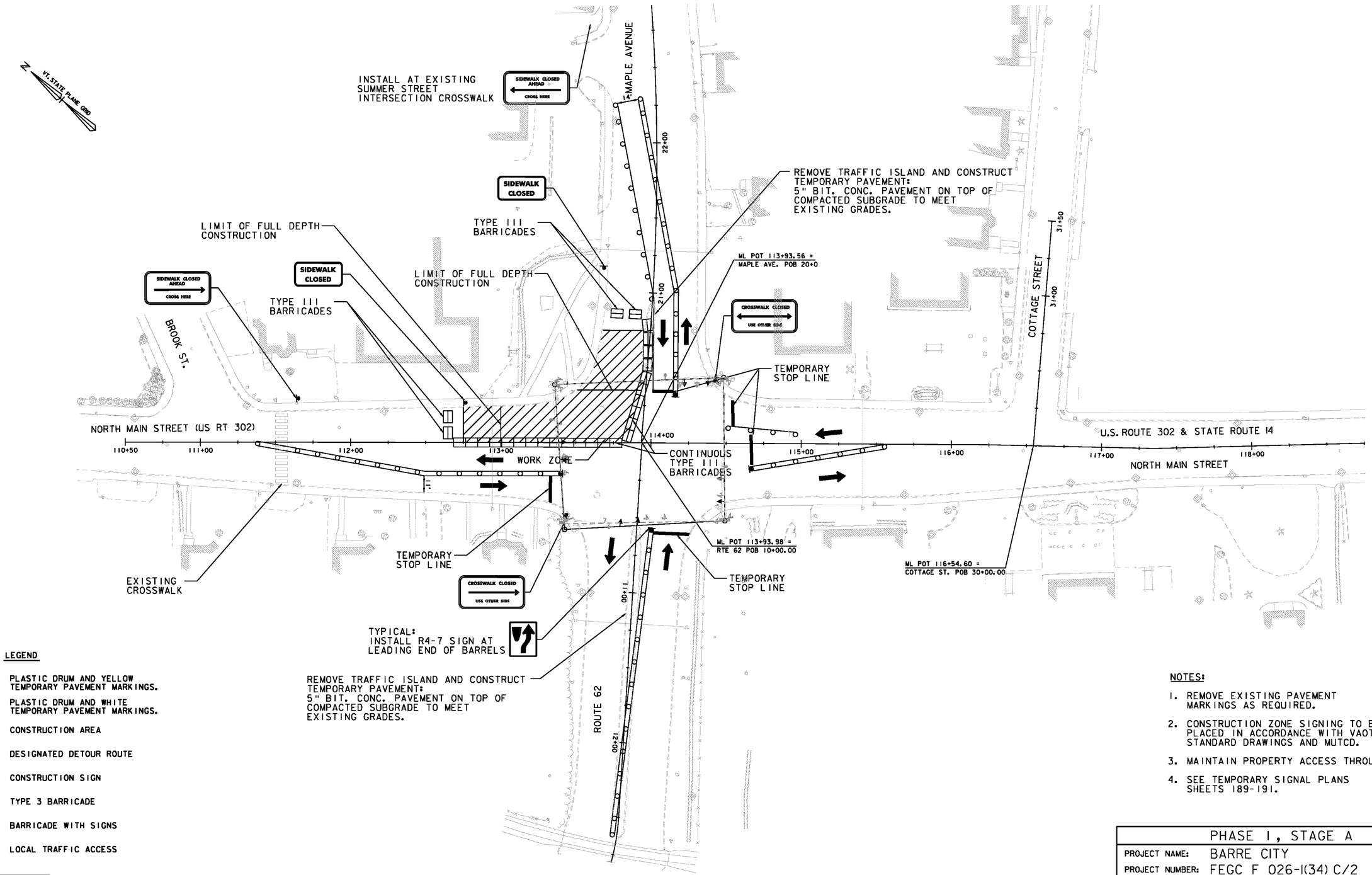
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85D010_DTRI_C2 — PLOT DATE: 3/31/2011

PROJECT LEADER: G. BAKOS — DRAWN BY: DMP / JAR

DESIGNED BY: DMP / MDS — CHECKED BY:

CONST. & DETOUR SIGNING PLAN PHASE IA — SHEET 173 OF 339



LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

30 0 30

FEET

NOTES:

1. REMOVE EXISTING PAVEMENT MARKINGS AS REQUIRED.
2. CONSTRUCTION ZONE SIGNING TO BE PLACED IN ACCORDANCE WITH VAOT STANDARD DRAWINGS AND MUTCD.
3. MAINTAIN PROPERTY ACCESS THROUGHOUT.
4. SEE TEMPORARY SIGNAL PLANS SHEETS 189-191.

PHASE I, STAGE A

PROJECT NAME: BARRE CITY

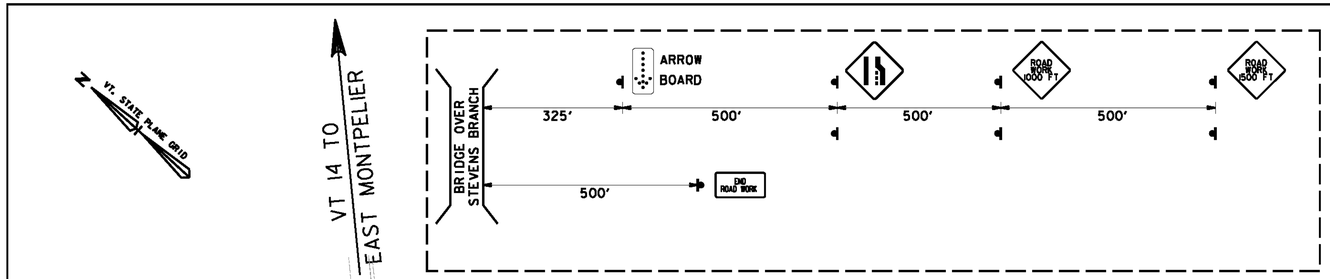
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_CSP1_C2 PLOT DATE: 4/4/2011

PROJECT LEADER: G. BAKOS DRAWN BY: JAR

DESIGNED BY: DMP / MDS CHECKED BY:

CONSTRUCTION INTERSECTION DETAIL SHEET 174 OF 339



ADVANCED SIGNING ALONG ROUTE 62

(MIRROR FOR LEFT LANE CLOSURES)

VT. STATE PLANE GRID

VT 14 TO EAST MONTPELIER

TREMONT STREET

FRANKLIN ST.

MALNUT ST.

ELM ST.

PARK STREET

WELLINGTON ST.

JEFFERSON ST.

AVERILL ST.

ACADEMY ST.

CHURCH ST.

500'

SEMINARY STREET

SUMMER STREET

MAPLE AVENUE (RT 14)

LAUREL ST.

GUNNERS CREEK

COTTAGE STREET

SOUTH SEMINARY STREET

WEST STREET

MERCHANT ST.

FLANDERS ALLEY

PEARL ST.

KEITH AVE.

ELM STREET

WASHINGTON ST. (US RT 302)

TO ORANGE

TO MONTPELIER

500'

500'

NORTH MAIN ST (US RT 302 / RT 14)

GRANITE STREET

CREAMERY COURT

ENTERPRISE ALLEY

DEPOT SQUARE

MERCHANTS ROW

CHURCH ST.

SOUTH MAIN ST. (RT 14)

RAILROAD CROSSING

RAILROAD TRACKS

RT. 62

FOR ADVANCED SIGNING ON ROUTE 62, SEE INSET ABOVE

VT 62 TO I-89

PROSPECT ST.

VT 14 TO WILLIAMSTOWN

CONSTRUCTION SIGNS

ROAD WORK AHEAD (1) — END DETOUR (4)

ROAD WORK 500 FT (2) — ROAD CLOSED (5)

END ROAD WORK (3) — ROAD CLOSED TO THRU TRAFFIC (5)A

DETOUR WEST 302 ARROW (6)X

DETOUR EAST 302 ARROW (7)X

DETOUR NORTH VERMONT 14 ARROW (8)X

DETOUR SOUTH VERMONT 14 ARROW (9)X

N. MAIN ST DETOUR (10)

N. MAIN ST DETOUR (10)A

N. MAIN ST DETOUR (11)

N. MAIN ST DETOUR (11)A

N. MAIN ST DETOUR (12)

DETOUR (13)

DETOUR (13)A

DETOUR AHEAD (14)

ARROW LEGEND

X = L

X = R

X = AL

X = AR

X = T

LEGEND

PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.

PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.

CONSTRUCTION AREA

DESIGNATED DETOUR ROUTE

CONSTRUCTION SIGN

TYPE 1/2/3 BARRICADE

BARRICADE WITH SIGNS

LOCAL TRAFFIC ACCESS

125 0 125 250

FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE IB

PROJECT NAME: BARRE CITY

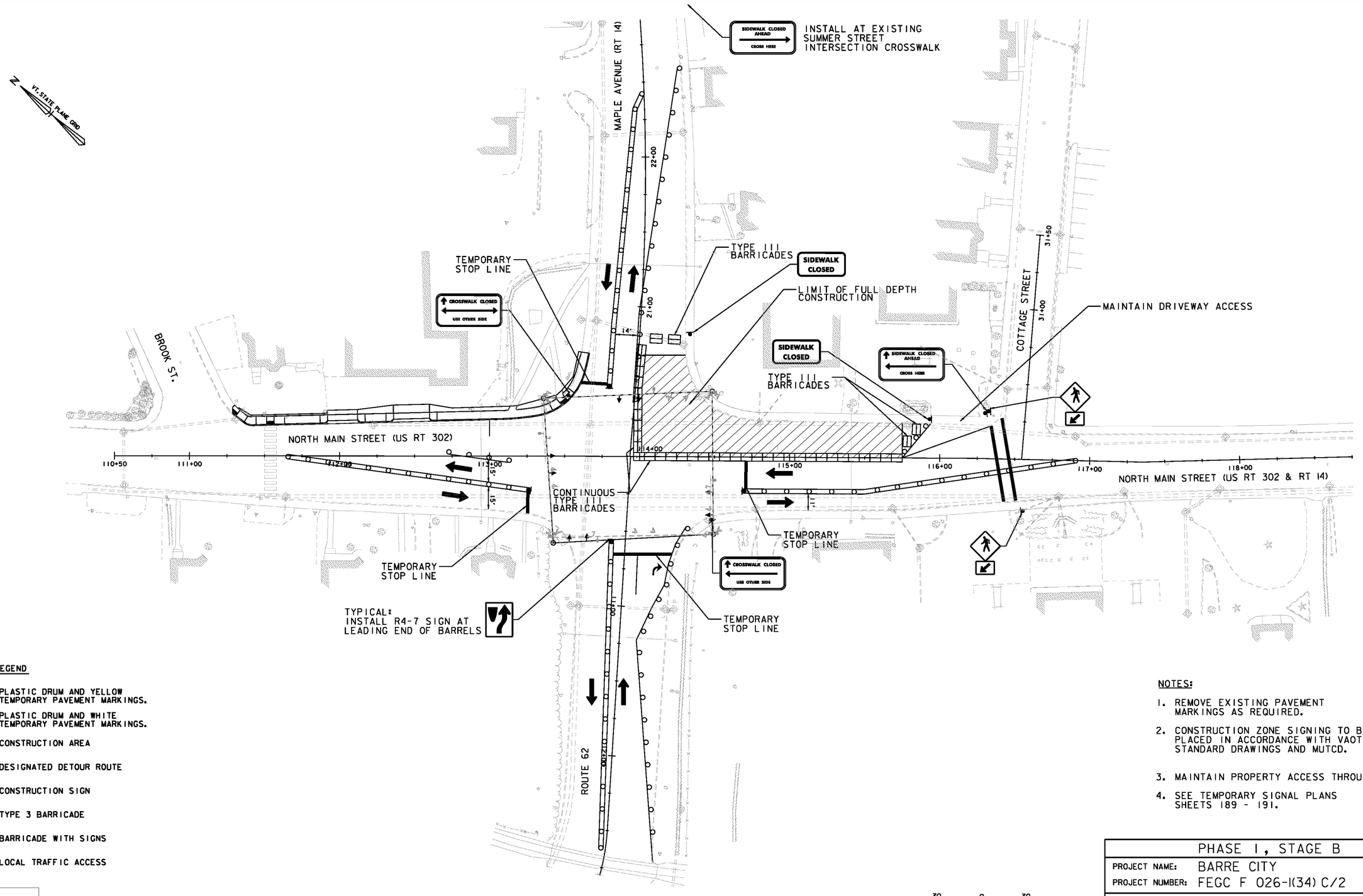
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_DTR2_C2 — PLOT DATE: 3/9/2011

PROJECT LEADER: G. BAKOS — DRAWN BY: DMP / JAR

DESIGNED BY: DMP / MDS — CHECKED BY:

CONST. & DETOUR SIGNING PLAN PHASE IB — SHEET 175 OF 339



LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

NOTES:

1. REMOVE EXISTING PAVEMENT MARKINGS AS REQUIRED.
2. CONSTRUCTION ZONE SIGNING TO BE PLACED IN ACCORDANCE WITH VAOT STANDARD DRAWINGS AND MUTCD.
3. MAINTAIN PROPERTY ACCESS THROUGHOUT.
4. SEE TEMPORARY SIGNAL PLANS SHEETS 189 - 191.

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

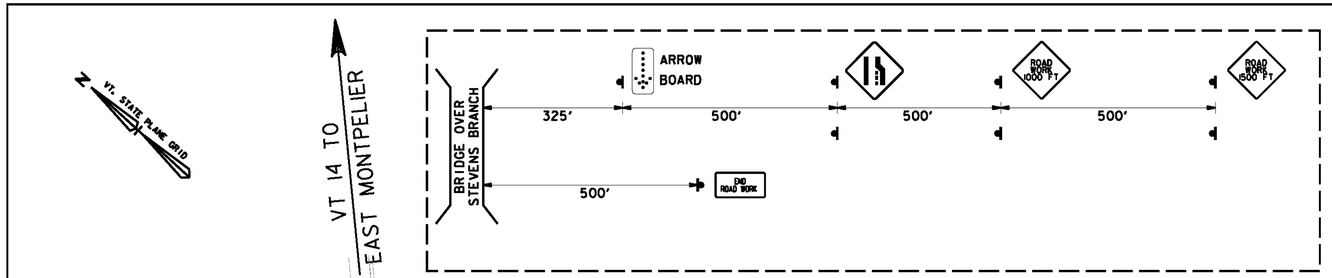
30 0 30
FEET

PHASE I, STAGE B

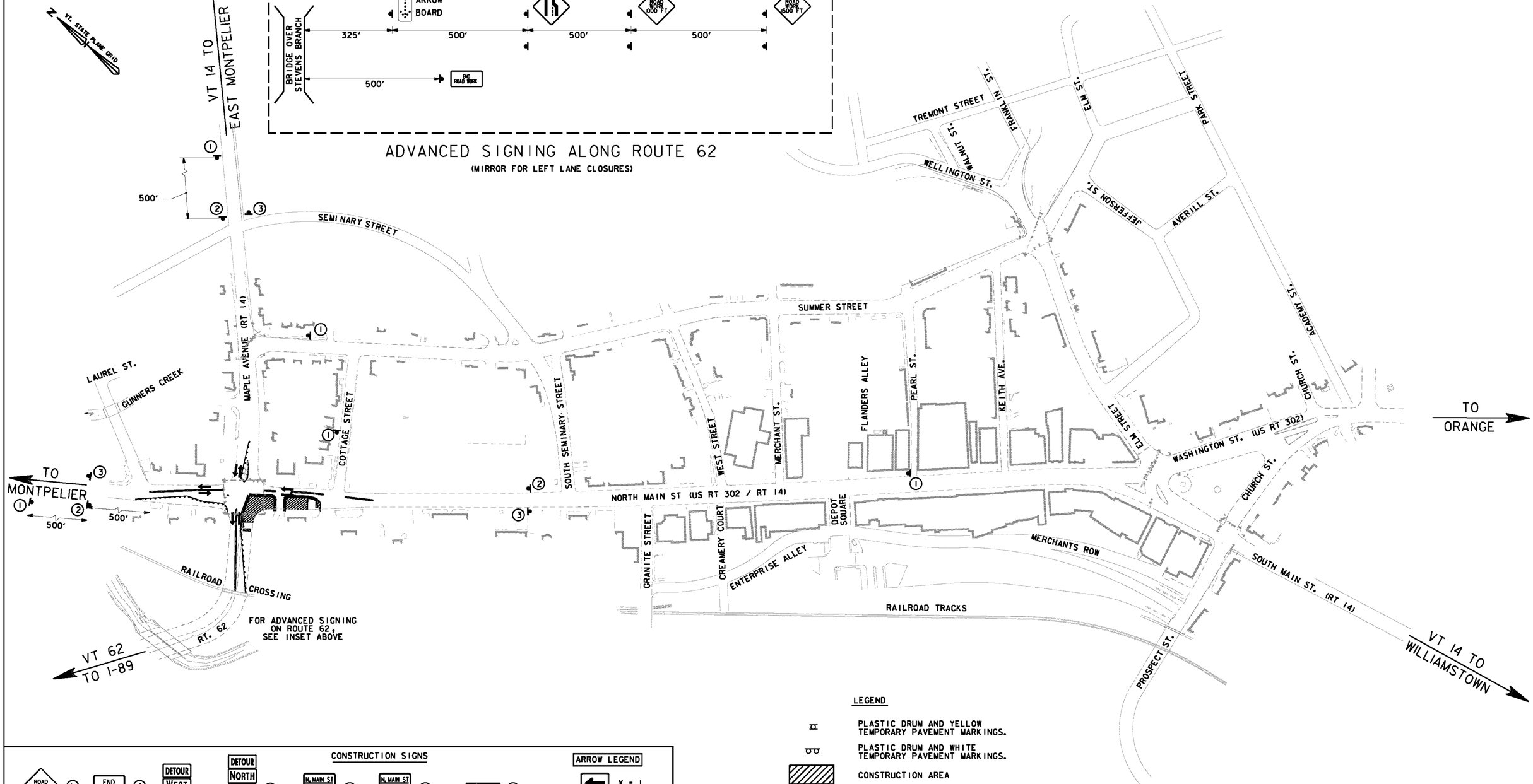
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_CSP2_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CONSTRUCTION INTERSECTION DETAIL

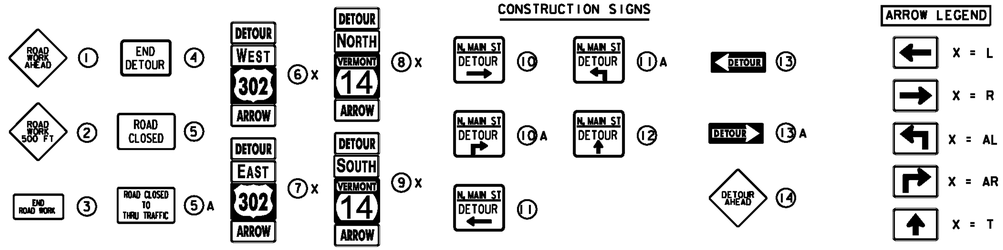
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 176 OF 339



ADVANCED SIGNING ALONG ROUTE 62
(MIRROR FOR LEFT LANE CLOSURES)



CONSTRUCTION SIGNS



ARROW LEGEND

LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE I/2/3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

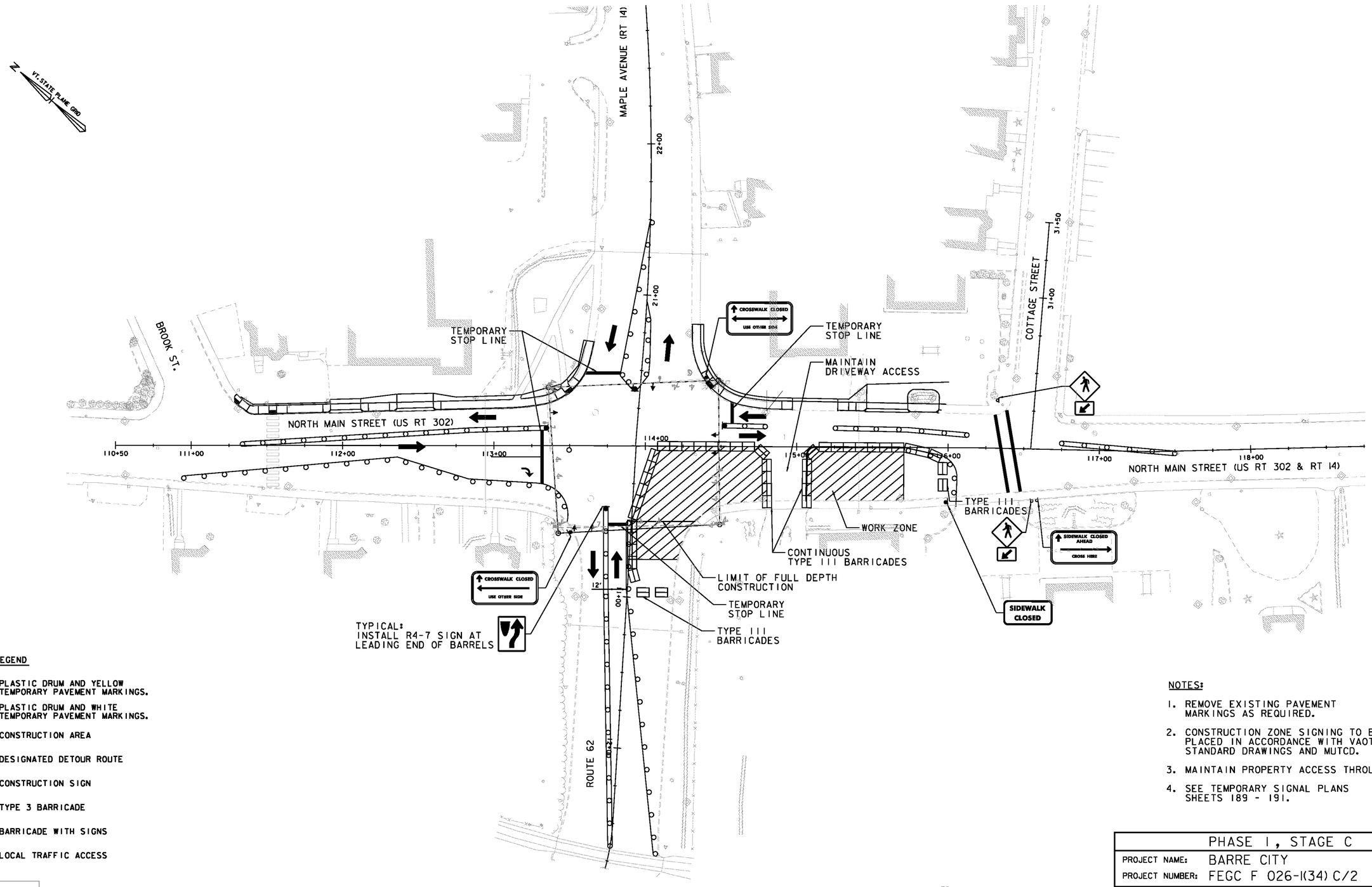
125 0 125 250
FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE IC

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_DTR3_C2	PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CONST. & DETOUR SIGNING PLAN PHASE IC	SHEET 177 OF 339



LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

DATUM

VERTICAL	NAVD 1929
HORIZONTAL	NAD 27

30 0 30
FEET

NOTES:

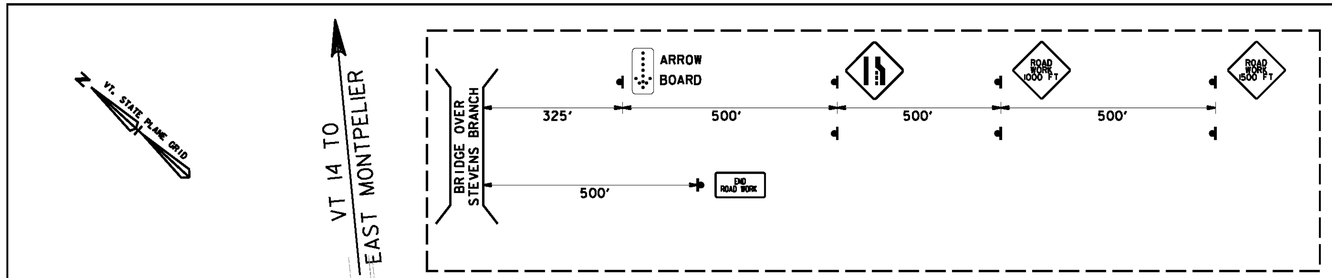
1. REMOVE EXISTING PAVEMENT MARKINGS AS REQUIRED.
2. CONSTRUCTION ZONE SIGNING TO BE PLACED IN ACCORDANCE WITH VAOT STANDARD DRAWINGS AND MUTCD.
3. MAINTAIN PROPERTY ACCESS THROUGHOUT.
4. SEE TEMPORARY SIGNAL PLANS SHEETS 189 - 191.

PHASE I, STAGE C

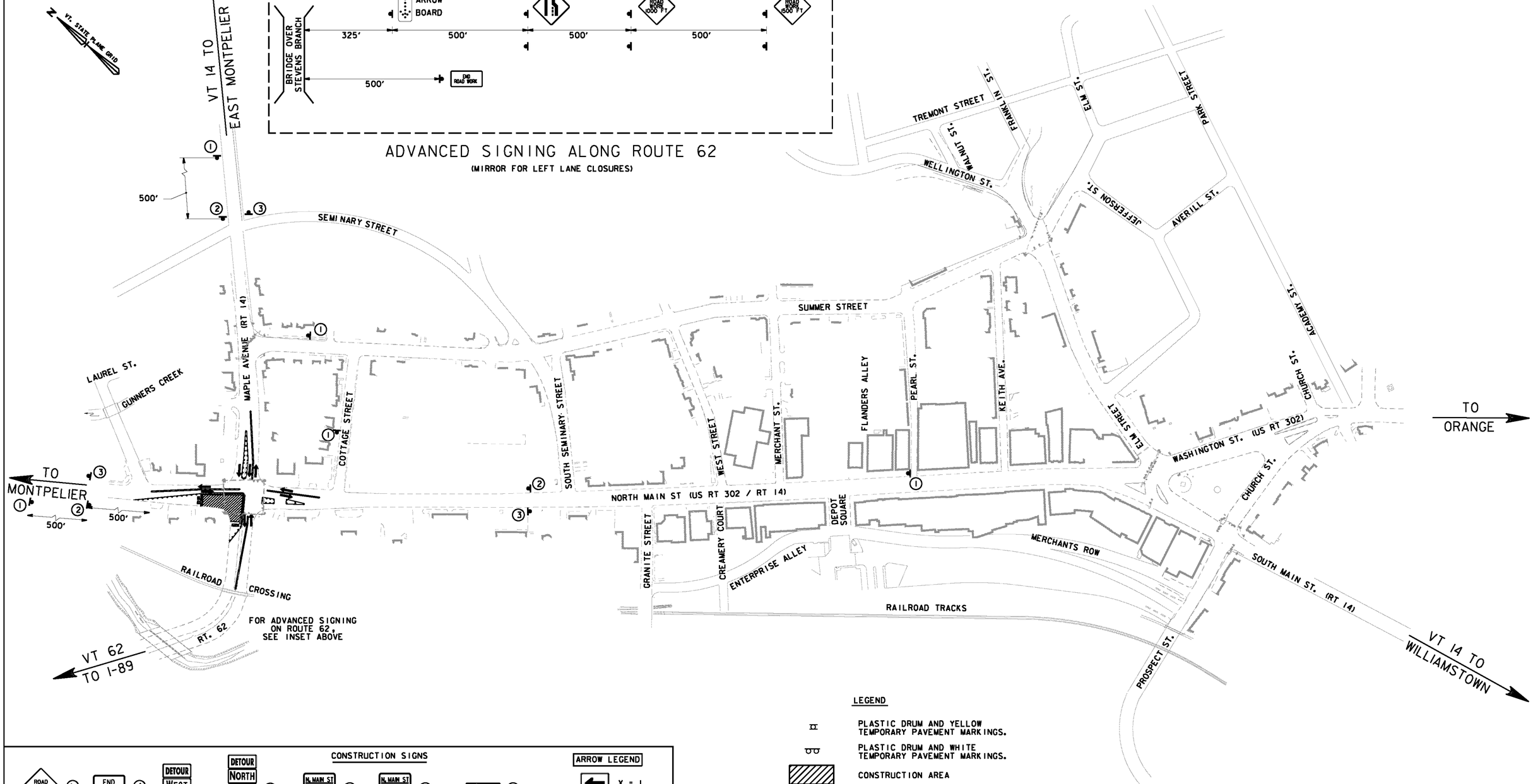
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85D010_CSP3_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CONSTRUCTION INTERSECTION DETAIL

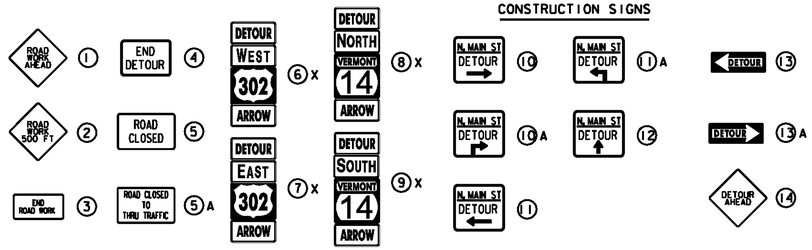
PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 178 OF 339



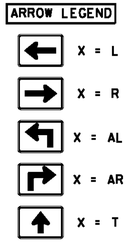
ADVANCED SIGNING ALONG ROUTE 62
(MIRROR FOR LEFT LANE CLOSURES)



CONSTRUCTION SIGNS



ARROW LEGEND



LEGEND

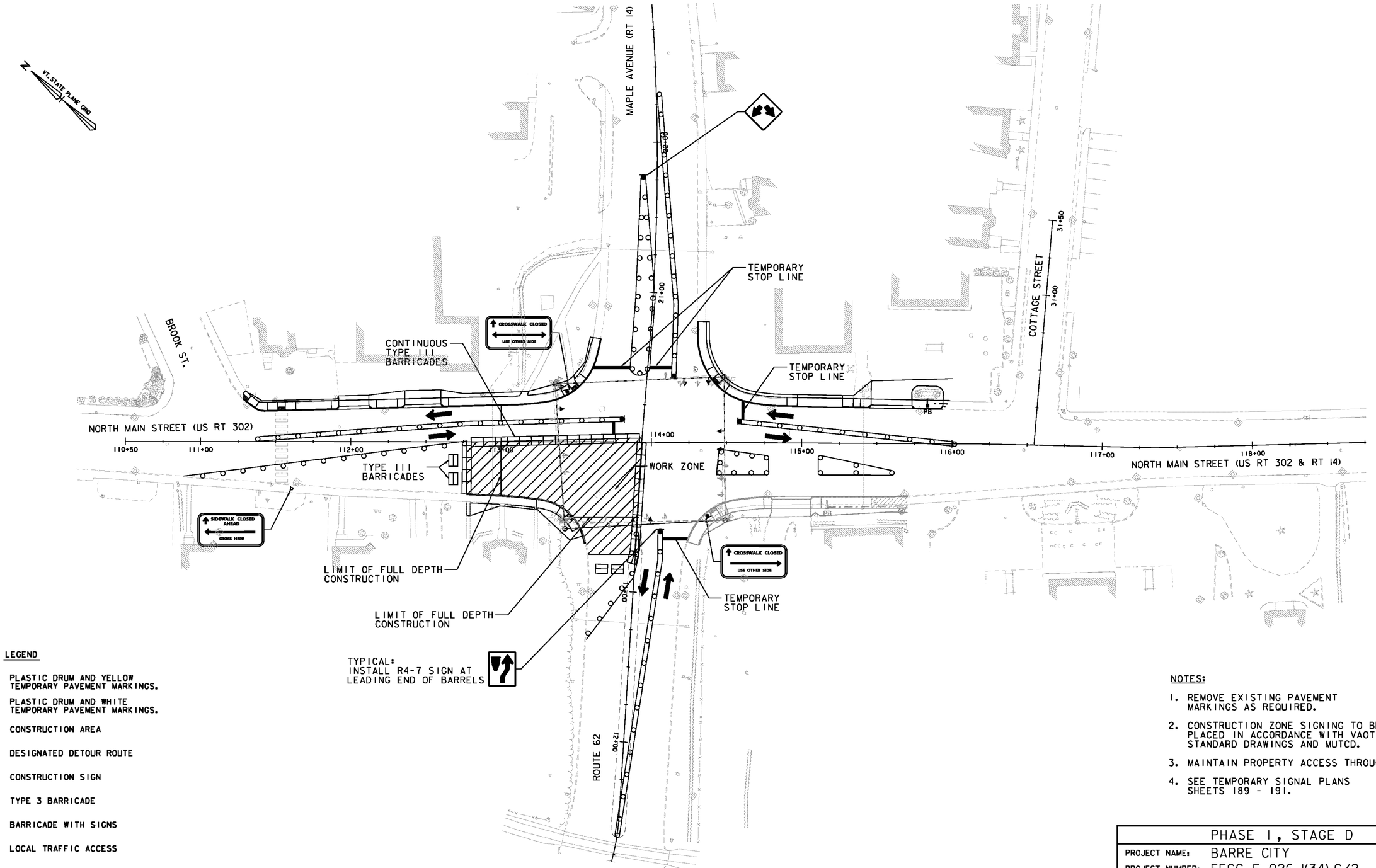
- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 1/2/3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

125 0 125 250
FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE ID

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_DTR4_C2	PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CONST. & DETOUR SIGNING PLAN PHASE ID	SHEET 179 OF 339



LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

DATUM

VERTICAL	NAVD 1929
HORIZONTAL	NAD 27

30 0 30
FEET

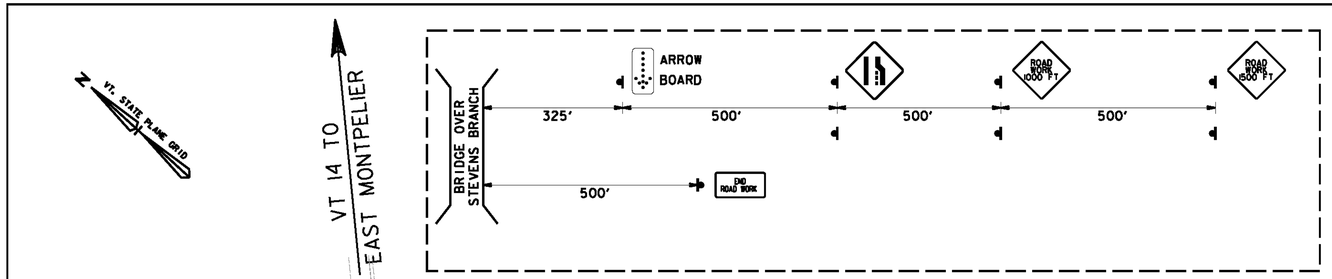
NOTES:

1. REMOVE EXISTING PAVEMENT MARKINGS AS REQUIRED.
2. CONSTRUCTION ZONE SIGNING TO BE PLACED IN ACCORDANCE WITH VAOT STANDARD DRAWINGS AND MUTCD.
3. MAINTAIN PROPERTY ACCESS THROUGHOUT.
4. SEE TEMPORARY SIGNAL PLANS SHEETS 189 - 191.

PHASE I, STAGE D

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_CSP4_C2	PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CONSTRUCTION INTERSECTION DETAIL	SHEET 180 OF 339



ADVANCED SIGNING ALONG ROUTE 62

(MIRROR FOR LEFT LANE CLOSURES)

VT. STATE PLANE GRID

VT 14 TO EAST MONTPELIER

500'

SEMINARY STREET

SEE TEMPORARY TRAFFIC SIGNAL PLANS

MAPLE AVENUE (RT 14)

LAUREL ST.

GUNNERS CREEK

COTTAGE STREET

SOUTH SEMINARY STREET

WEST STREET

MERCHANT ST.

FLANDERS ALLEY

PEARL ST.

KEITH AVE.

SUMMER STREET

TREMONT STREET

FRANKLIN ST.

MALNUT ST.

ELM ST.

PARK STREET

WELLINGTON ST.

JEFFERSON ST.

AVERILL ST.

ACADEMY ST.

ELM STREET

CHURCH ST.

SEE TEMPORARY TRAFFIC SIGNAL PLANS

WASHINGTON ST. (US RT 302)

TO ORANGE

TO MONTPELIER

500'

500'

NORTH MAIN ST (US RT 302 / RT 14)

GRANITE STREET

CREAMERY COURT

ENTERPRISE ALLEY

DEPOT SQUARE

MERCHANTS ROW

CHURCH ST.

SOUTH MAIN ST. (RT 14)

RAILROAD CROSSING

RAILROAD TRACKS

RT. 62

FOR ADVANCED SIGNING ON ROUTE 62, SEE INSET ABOVE

VT 62 TO I-89

PROSPECT ST.

VT 14 TO WILLIAMSTOWN

CONSTRUCTION SIGNS

ROAD WORK AHEAD ①
END DETOUR ④
DETOUR WEST 302 ARROW ⑥X
DETOUR NORTH VERMONT 14 ARROW ⑧X
N. MAIN ST DETOUR ⑩
N. MAIN ST DETOUR ⑪A
DETOUR ⑬
ROAD WORK 500 FT ②
ROAD CLOSED ⑤
N. MAIN ST DETOUR ⑩A
N. MAIN ST DETOUR ⑫
DETOUR ⑬A
END ROAD WORK ③
ROAD CLOSED TO THRU TRAFFIC ⑤A
DETOUR EAST 302 ARROW ⑦X
DETOUR SOUTH VERMONT 14 ARROW ⑨X
N. MAIN ST DETOUR ⑪
DETOUR AHEAD ⑭

ARROW LEGEND

X = L
X = R
X = AL
X = AR
X = T

LEGEND

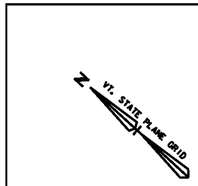
- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE I/2/3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

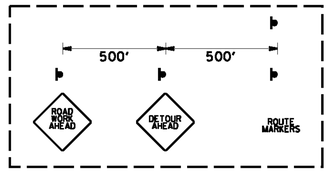
125 0 125 250
FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE IE

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_DTR5_C2	PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CONST. & DETOUR SIGNING PLAN PHASE IE	SHEET 181 OF 339





DETAIL B

VT 14 TO EAST MONTPELIER

SEE DETAIL B FOR PHASES 2-5

SEMINARY STREET

SUMMER STREET

TREMONT STREET

FRANKLIN ST.

ELM ST.

PARK STREET

WELLINGTON ST.

MALNUT ST.

JEFFERSON ST.

AVERILL ST.

ACADEMY ST.

LAUREL ST.

GUNNERS CREEK

MAPLE AVENUE (RT 14)

COTTAGE STREET

SOUTH SEMINARY STREET

WEST STREET

MERCHANT ST.

FLANDERS ALLEY

PEARL ST.

KEITH AVE.

ELM STREET

CHURCH ST.

WASHINGTON ST. (US RT 302)

TO ORANGE

SEE DETAIL A FOR PHASES 2-6

TO MONTPELIER

NORTH MAIN ST (US RT 302 / RT 14)

GRANITE STREET

CREAMERY COURT

ENTERPRISE ALLEY

DEPOT SQUARE

MERCHANTS ROW

SOUTH MAIN ST. (RT 14)

SEE DETAIL A FOR PHASES 2-6

VT 14 TO WILLIAMSTOWN

SEE DETAIL A FOR PHASES 2-5; PHASE 6 ALLOWS EASTBOUND THROUGH MOVEMENT WITHOUT DETOUR

RAILROAD CROSSING

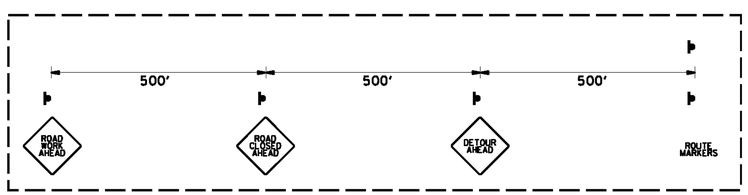
RAILROAD TRACKS

PROSPECT ST.

RT. 62

VT 62 TO I-89

SEE DETAIL B FOR PHASES 2-5



DETAIL A

125 0 125 250
FEET

VHB Vanasse Hangen Brustlin, Inc.

DETOUR ADVANCED SIGNING PLAN

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85D010_DTR6_C2 PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS CHECKED BY:
CONST. & DETOUR SIGNING PLAN PHASES 2-6 SHEET 182 OF 339

N

VT. STATE PLANE GRID

TREMONT ST

WALNUT ST

FRANKLIN ST

ELM ST

EASTERN AVE

PARK ST

JEFFERSON ST

AVERILL ST

ACADEMY ST

WELLINGTON ST

SUMMER STREET

KEITH AVE

PEARL ST

Elm St DETOUR

Elm St DETOUR

Elm St DETOUR

Elm St END DETOUR

TEMPORARY 4 INCH SINGLE WHITE LINE

SWL

ROAD CLOSED

ONE WAY

ONE WAY

LEGEND

- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 1/2/3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

50 0 50 100

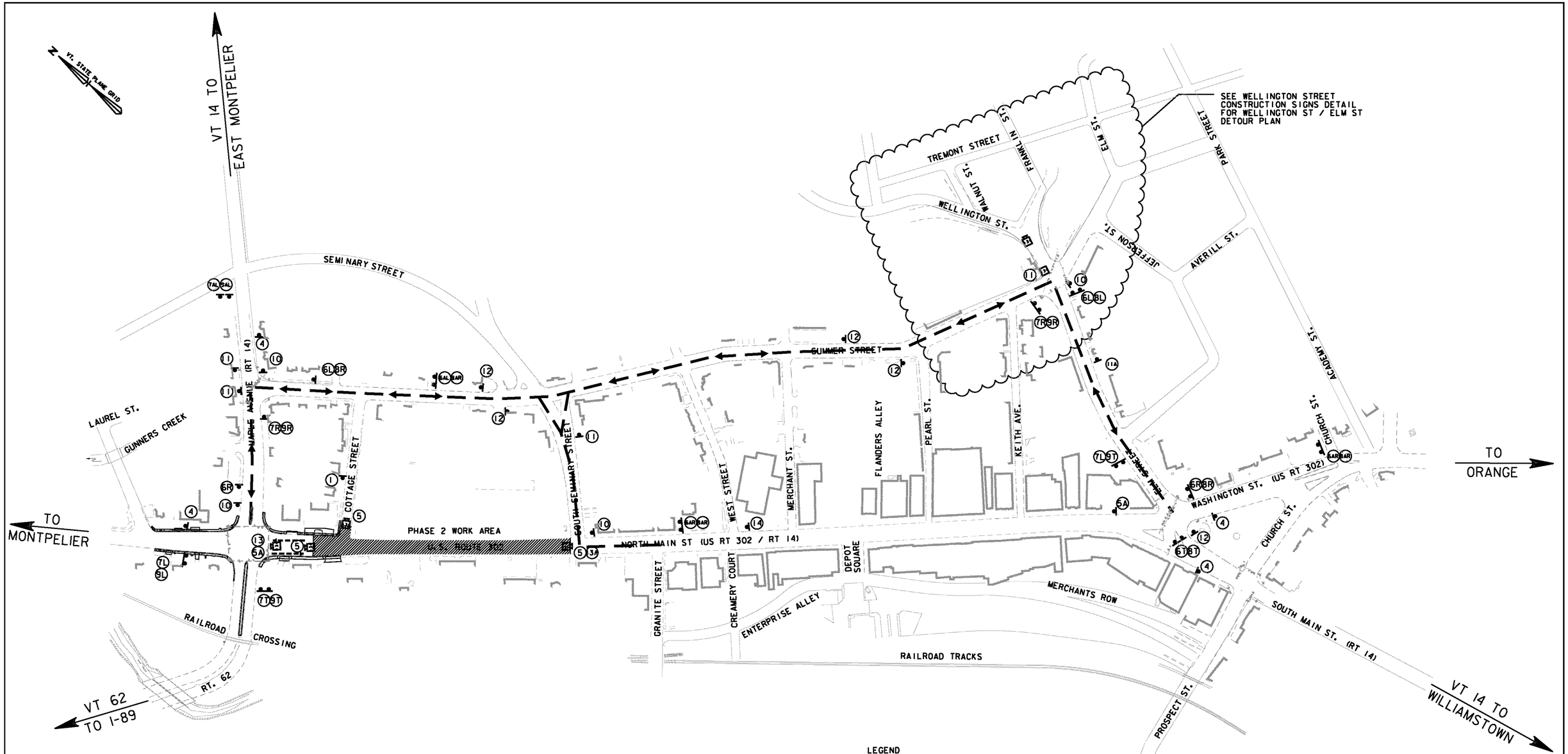
FEET

VHB Vanasse Hangen Brustlin, Inc.

WELLINGTON STREET CONSTRUCTION SIGNS DETAIL

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2

FILE NAME: 85b010_CSP5_C2	PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CONST. & DETOUR SIGNING PLAN PHASES 2-6	SHEET 183 OF 339



NOTE: ALL SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR FULLY COVERED WITH OPAQUE COVERS (INCLUDES OVERHEAD SIGNS).

CONSTRUCTION SIGNS

ARROW LEGEND: X = L; X = R; X = AL; X = AR; X = T

LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 1/2/3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

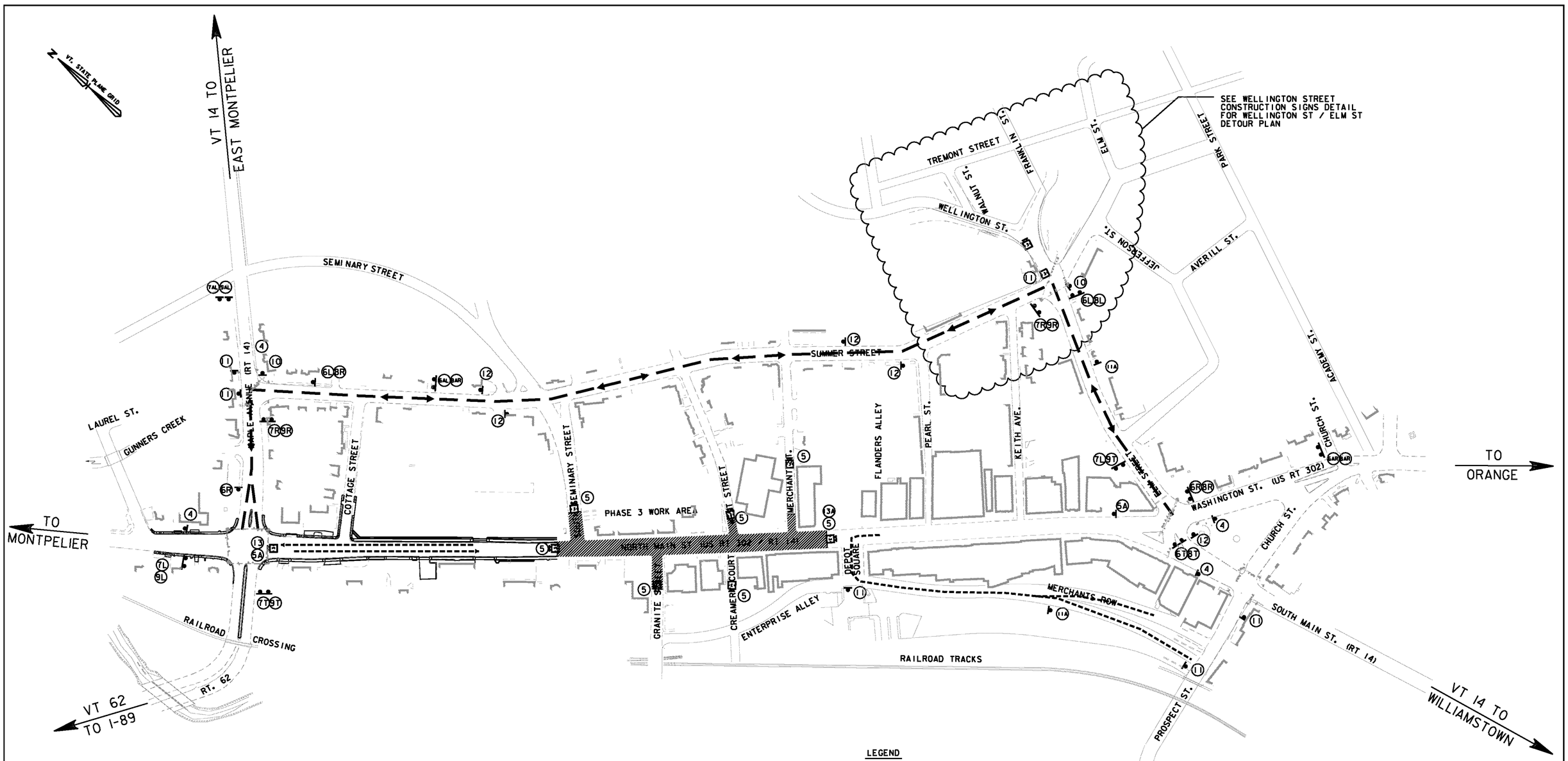
125 0 125 250 FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE 2

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_DTR7_C2 — PLOT DATE: 3/31/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS — CHECKED BY:
CONST. & DETOUR SIGNING PLAN PHASE 2 — SHEET 184 OF 339



NOTE: ALL SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR FULLY COVERED WITH OPAQUE COVERS (INCLUDES OVERHEAD SIGNS).

CONSTRUCTION SIGNS

1 ROAD WORK AHEAD
2 ROAD WORK 500 FT
3 END ROAD WORK
4 END DETOUR
5 ROAD CLOSED
5A ROAD CLOSED TO THRU TRAFFIC
6 DETOUR WEST 302 ARROW
7 DETOUR EAST 302 ARROW
8 DETOUR NORTH VERMONT 14 ARROW
9 DETOUR SOUTH VERMONT 14 ARROW
10 N. MAIN ST DETOUR
10A N. MAIN ST DETOUR
11 N. MAIN ST DETOUR
11A N. MAIN ST DETOUR
12 N. MAIN ST DETOUR
13 DETOUR
13A DETOUR
14 DETOUR AHEAD

ARROW LEGEND

X = L
X = R
X = AL
X = AR
X = T

LEGEND

PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
CONSTRUCTION AREA
DESIGNATED DETOUR ROUTE
CONSTRUCTION SIGN
TYPE I/2/3 BARRICADE
BARRICADE WITH SIGNS
LOCAL TRAFFIC ACCESS

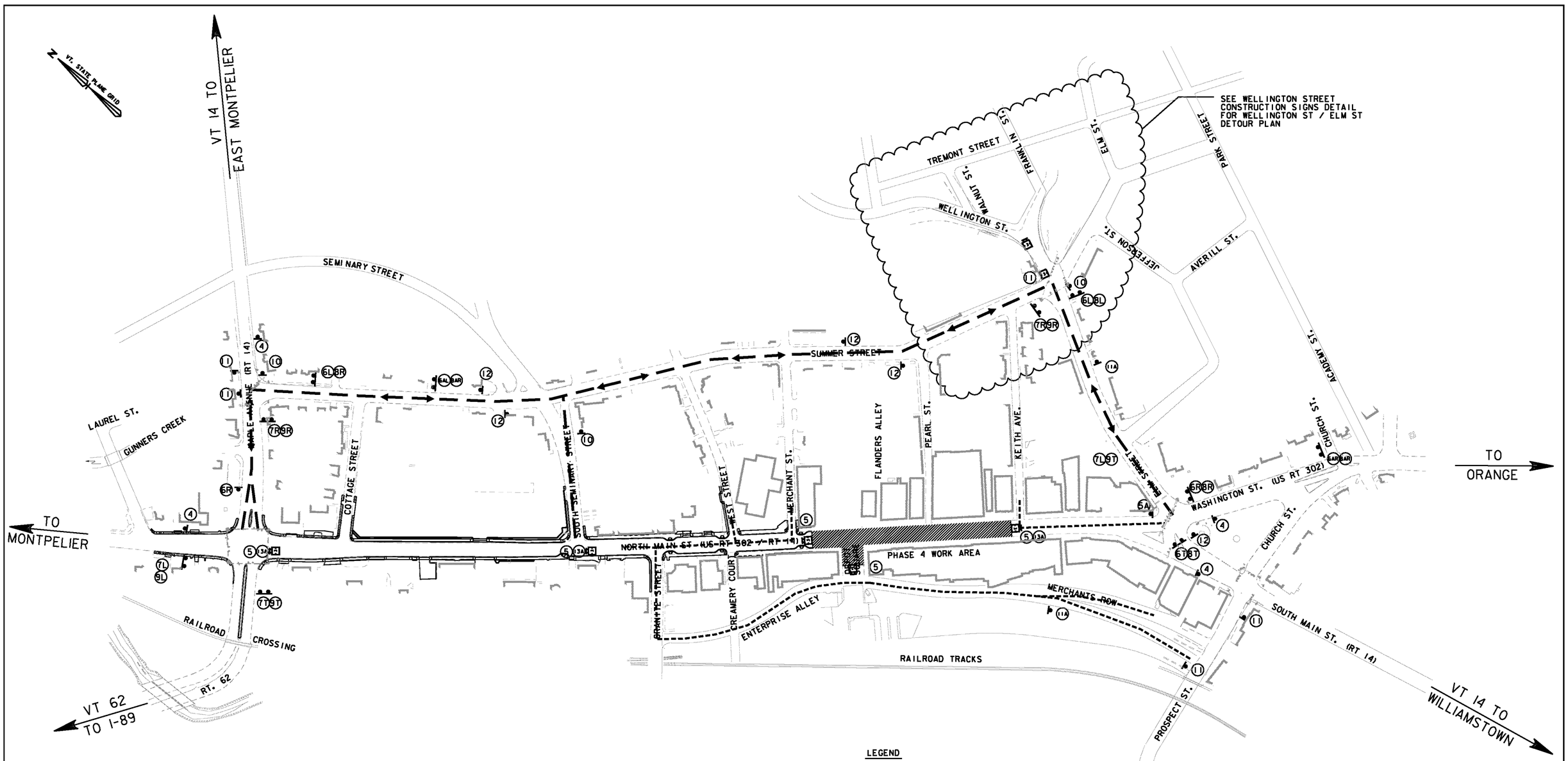
125 0 125 250
FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE 3

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_DTR8_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CONST. & DETOUR SIGNING PLAN PHASE 3
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 185 OF 339



NOTE: ALL SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR FULLY COVERED WITH OPAQUE COVERS (INCLUDES OVERHEAD SIGNS).

CONSTRUCTION SIGNS

ROAD WORK AHEAD ① — END DETOUR ④ — DETOUR WEST 302 ARROW ⑥X — DETOUR NORTH VERMONT 14 ARROW ⑧X — N. MAIN ST DETOUR ⑩ — N. MAIN ST DETOUR ⑪A — DETOUR ⑬

ROAD WORK 500 FT ② — ROAD CLOSED ⑤ — N. MAIN ST DETOUR ⑩A — N. MAIN ST DETOUR ⑫ — DETOUR ⑬A

END ROAD WORK ③ — ROAD CLOSED TO THRU TRAFFIC ⑤A — DETOUR EAST 302 ARROW ⑦X — DETOUR SOUTH VERMONT 14 ARROW ⑨X — N. MAIN ST DETOUR ⑪ — DETOUR AHEAD ⑭

ARROW LEGEND

X = L
X = R
X = AL
X = AR
X = T

LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 1/2/3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

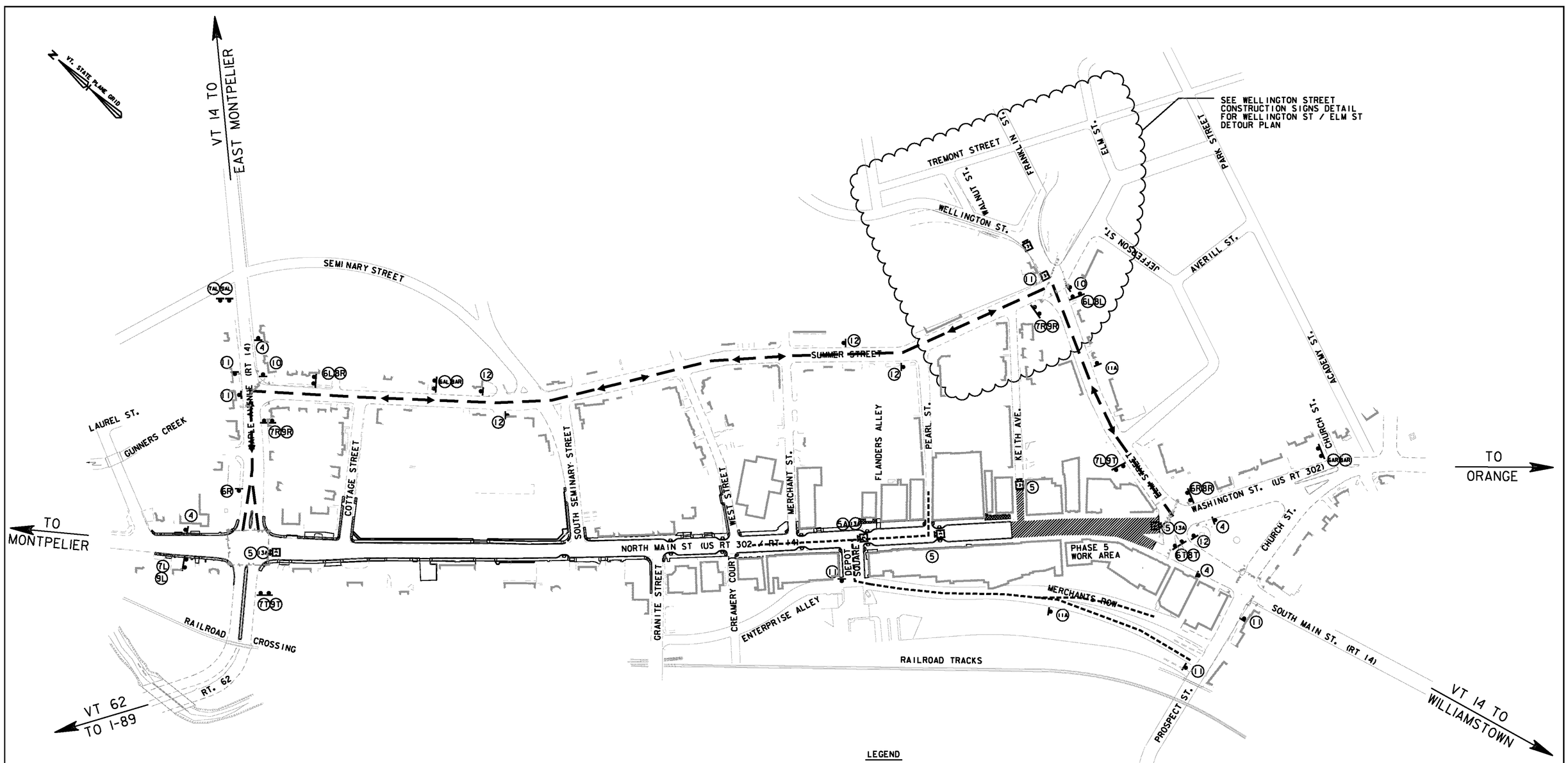
125 0 125 250
FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE 4

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_DTR9_C2 — PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS — DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS — CHECKED BY:
CONST. & DETOUR SIGNING PLAN PHASE 4 — SHEET 186 OF 339



NOTE: ALL SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR FULLY COVERED WITH OPAQUE COVERS (INCLUDES OVERHEAD SIGNS).

CONSTRUCTION SIGNS

ARROW LEGEND

X = L
X = R
X = AL
X = AR
X = T

LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 1/2/3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

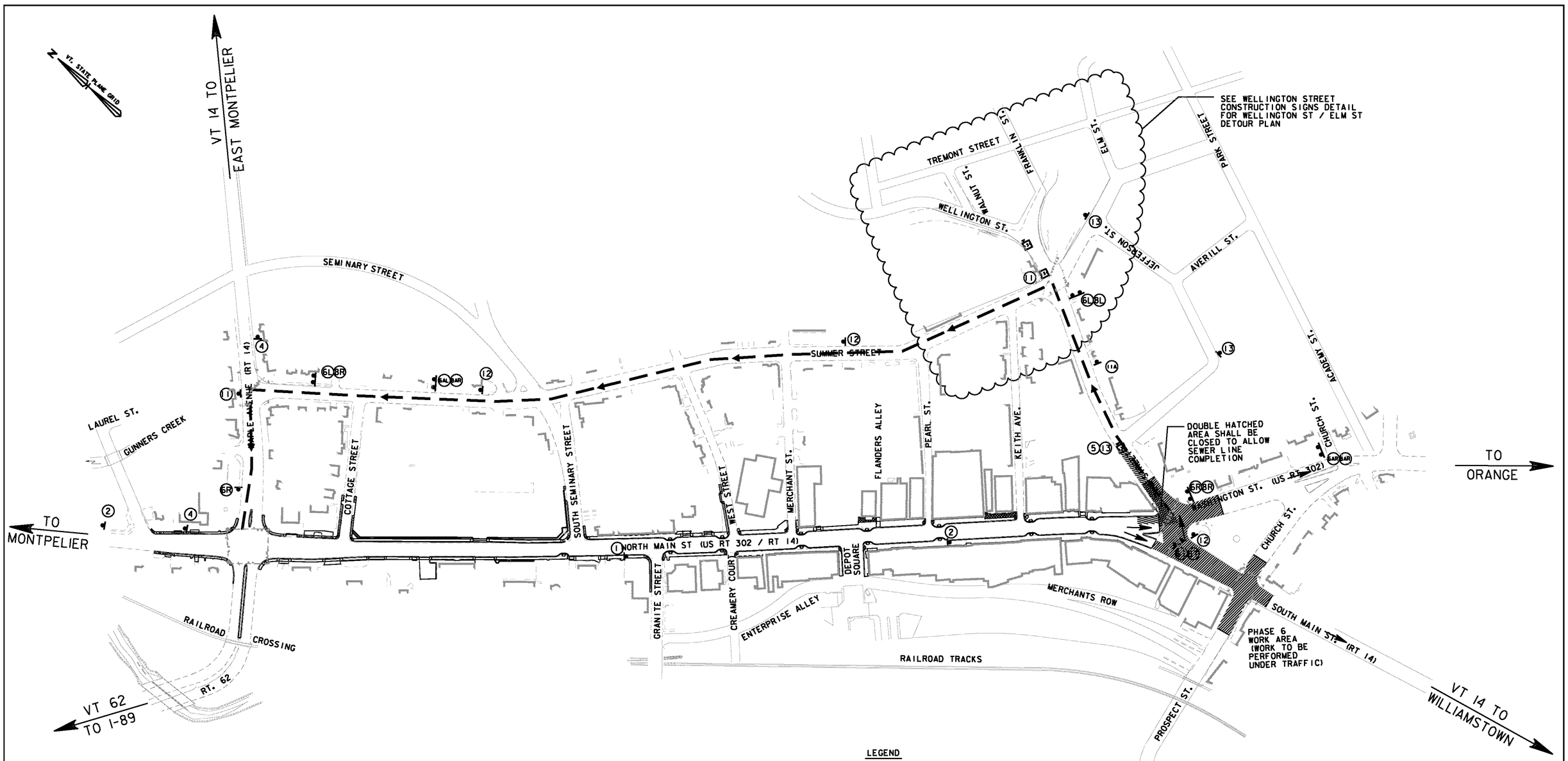
125 0 125 250
FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE 5

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_DTR10_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CONST. & DETOUR SIGNING PLAN PHASE 5
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 187 OF 339



NOTE: ALL SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR FULLY COVERED WITH OPAQUE COVERS (INCLUDES OVERHEAD SIGNS).

CONSTRUCTION SIGNS

ARROW LEGEND

X = L
X = R
X = AL
X = AR
X = T

LEGEND

- PLASTIC DRUM AND YELLOW TEMPORARY PAVEMENT MARKINGS.
- PLASTIC DRUM AND WHITE TEMPORARY PAVEMENT MARKINGS.
- CONSTRUCTION AREA
- DESIGNATED DETOUR ROUTE
- CONSTRUCTION SIGN
- TYPE 1/2/3 BARRICADE
- BARRICADE WITH SIGNS
- LOCAL TRAFFIC ACCESS

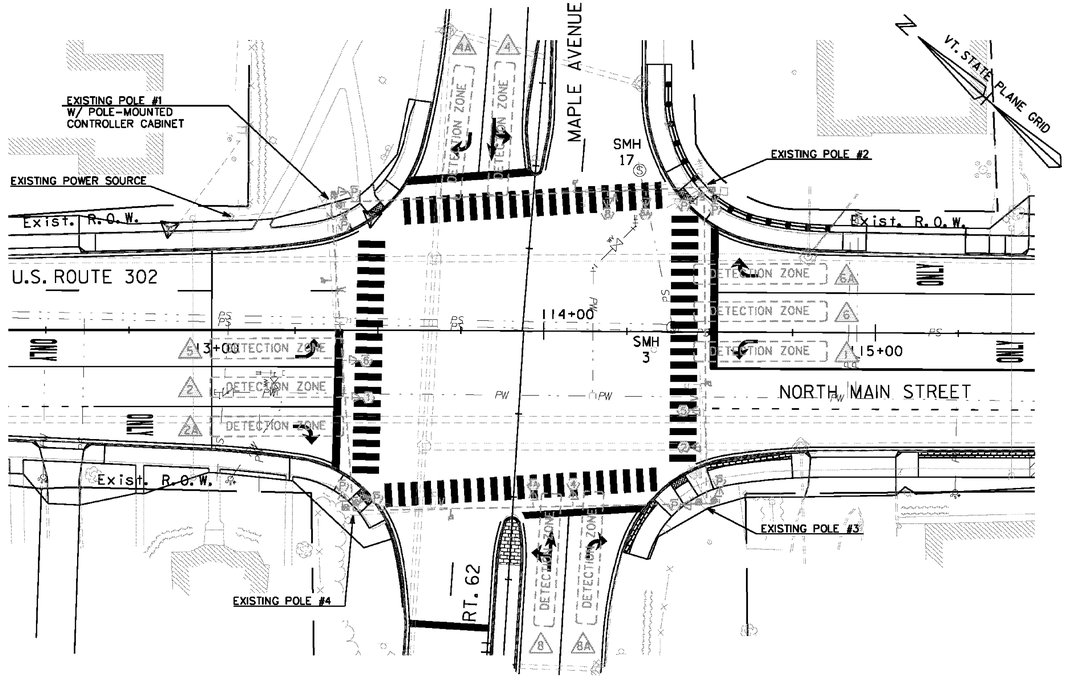
125 0 125 250
FEET

VHB Vanasse Hangen Brustlin, Inc.

PHASE 6

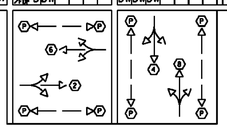
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_DTRII_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CONST. & DETOUR SIGNING PLAN PHASE 6
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 188 OF 339



TIMING AND PHASING (PHASE 1)

		PHASE 2+6 (DWELL)								PHASE 4 + 8								FLASHING OPERATION
		%	Ø4+Ø8							%	CLEAR TO Ø2+6							
OFF PEAK REST OF DAY	VEHICLE	-								2								
	MINIMUM	5/25	4	3						5/25	4	2						
	MAXIMUM	60	4	3						40	4	2						
	MAXIMUM2	75	4	3						55	4	2						
	PED ACT																	
AM PEAK 7-9 AM	VEHICLE	-								2								
	MINIMUM	5/25	4	3						5/25	4	2						
	MAXIMUM	45	4	3						25	4	2						
	MAXIMUM2	60	4	3						40	4	2						
	PED ACT																	
PM PEAK 3-6 PM	VEHICLE	-								2								
	MINIMUM	5/25	4	3						5/25	4	2						
	MAXIMUM	50	4	3						35	4	2						
	MAXIMUM2	75	4	3						45	4	2						
	PED ACT																	
	FACE 2	G	Y	R						R	R	R						FY
	FACE 4	R	R	R						G	Y	R						FR
	FACE 6	G	Y	R						R	R	R						FY
	FACE 8	R	R	R						G	Y	R						FR
	PED (N-S)	DW	DW	DW						5/25	FD	DW						B
	PED (E-W)	5/25	FD	DW						DW	DW	DW						B



W = WALK, FD = FLASHING DON'T WALK, DW = DON'T WALK,
B = BLANK, FR = FLASHING RED, FY = FLASHING YELLOW

1. FACE NUMBERS ARE BASED ON NEMA PHASES
2. DURING PHASE 1, ALL LEFT TURNS SHALL OPERATE UNDER PERMISSIVE PHASING
3. DURING PHASE 1, CLOSED PEDESTRIAN CROSSINGS SHALL HAVE THE PEDESTRIAN SIGNAL HEADS COVERED AND THE PUSH BUTTONS DEACTIVATED.

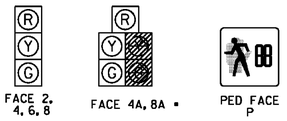
DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

2011 AVERAGE WEEKDAY TRAFFIC DATA (PHASES 2-6)

(SEE SHEET 190)

EXISTING SIGNAL FACE ARRANGEMENT

(12" LED LENSES W/ 5" BACKPLATES)



* CONTRACTOR SHALL COVER YELLOW AND GREEN ARROWS OR REPLACE SIGNAL HEADS WITH 3-SECTION GREEN-YELLOW-RED SIGNALS

AT THE COMPLETION OF PHASE IE, REINSTALL SALVAGED MAST ARMS AND INSTALL NEW SIGNAL HEADS ON NEW BRACKETS.

PROGRAM PERIODS OF OPERATION

	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 (AM / PM / AM)
SUNDAY	4
MONDAY	4 | 1 2 | 1 | 3 | 1 | 4
TUESDAY	4 | 1 2 | 1 | 3 | 1 | 4
WEDNESDAY	4 | 1 2 | 1 | 3 | 1 | 4
THURSDAY	4 | 1 2 | 1 | 3 | 1 | 4
FRIDAY	4 | 1 2 | 1 | 3 | 1 | 4
SATURDAY	4

NOTES:

PLAN 1 - MIDDAY (MAXIMUM 1): 6:00 AM TO 7:00 AM, M-F; 9:00 AM TO 3:00 PM, M-F; 6:00 PM TO 10:00 PM, M-F

PLAN 2 - AM PEAK (MAXIMUM 2): 7:00 AM TO 9:00 AM, M-F

PLAN 3 - PM PEAK (MAXIMUM 2): 3:00 PM TO 6:00 PM, M-F

PLAN 4 - OFFPEAK (MAXIMUM 1): MIDNIGHT TO 6:00 AM, M-F; 10:00 PM TO MIDNIGHT, M-F; ALL DAY SATURDAYS AND SUNDAYS

COORDINATION CYCLE / SPLIT / OFFSET SCHEDULE

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	80	80	FREE
COS	111	121	131	-
OFFSET	8	77	39	-
SPLIT TIME Ø1	0	0	0	-
SPLIT TIME Ø2	46	34	44	-
SPLIT TIME Ø3	0	0	0	-
SPLIT TIME Ø4	34	46	36	-
SPLIT TIME Ø5	0	0	0	-
SPLIT TIME Ø6	46	34	44	-
SPLIT TIME Ø7	0	0	0	-
SPLIT TIME Ø8	34	46	36	-

COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED PHASE (Ø4 & Ø8)

NOT REQUIRED AS CONTRACTOR WORKED AT NIGHT THROUGH THIS INTERSECTION

LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.40	QUANTITY
RELOCATE TRAFFIC SIGNAL HEADS FROM MAST ARM MOUNTING TO SPAN WIRE MOUNTING, WITH NEW WIRING AS NEEDED	8
SALVAGE TRAFFIC SIGNAL HEADS	2
SPAN WIRE MOUNTING DISCONNECT BRACKET	8
RELOCATE TRAFFIC SIGNAL HEADS FOR STAGES IB, IC, ID, & IE	20
RELOCATE EMERGENCY PREEMPTION EQUIPMENT TO SPAN WIRE	-
RELOCATE VIDEO DETECTION EQUIPMENT TO TRAFFIC SIGNAL POLES	4
MODIFY VIDEO DETECTION ZONES FOR STAGED CONSTRUCTION (1x PER CAMERA PER SITE)	20

EXISTING DETECTION SCHEDULE

OPTICAL VIDEO DETECTORS							
LOOP NO.	LANE	CALL Ø	SIZE	TYPE & NO. TURNS	DELAY OR PRESENCE	SLOT	CHANNEL
1	WBLT	1	6X40	OPTICAL	PRESENCE	2	1
2	EBTH	2	6X40	OPTICAL	PRESENCE	4	2
2A	EBRT	2	6X40	OPTICAL	5 SEC DELAY	4	3
3	SBTH	4	6X40	OPTICAL	PRESENCE	6	1
4A	SBRT	4	6X40	OPTICAL	5 SEC DELAY	6	2
5	EBLT	5	6X40	OPTICAL	PRESENCE	4	1
6	WBTH	6	6X40	OPTICAL	PRESENCE	2	2
6A	WBRT	6	6X40	OPTICAL	5 SEC DELAY	2	3
7	NBLT	8	6X40	OPTICAL	PRESENCE	8	1
8A	NBRT	8	6X40	OPTICAL	5 SEC DELAY	8	2

EQUIPMENT NOTES

(A) SEE STANDARDS E-170, E-171A, E-171B, 171C, 173, & 175 FOR ADDITIONAL INFORMATION.

(B) FOR SIGN DETAILS, SEE SHEET 85.

(C) SEE SHEETS 172, 174, 176, 178, 180, AND 181 FOR ADDITIONAL DETAILS FOR TRAFFIC CONTROL, CONSTRUCTION, AND PHASING. TRAFFIC SIGNAL SHALL OPERATE AS 2-PHASE SIGNAL DURING STAGED CONSTRUCTION IN PHASE 1. TRAFFIC SIGNAL SHALL OPERATE AS PROPOSED FOR PHASES 2-7. CONTRACTOR SHALL MODIFY TIMING PLAN IN ACCORDANCE TO DETOUR TRAFFIC CONDITIONS.

LEGEND

EXISTING	LEGEND
	CONTROLLER CABINET
	SIGNAL HEAD
	CONDUIT
	OPTICAL DETECTION ZONE
	PEDESTAL POST
	STANCHION
	EMERGENCY VEHICLE PREEMPTION STROBE
	EMERGENCY VEHICLE PREEMPTION RECEIVER
	PEDESTRIAN PUSH BUTTON
	PULL BOX
	OVERHEAD SIGN
	RADIO ANTENNA
	OPTICAL DETECTION
	MAST ARM

20 0 20 40
FEET

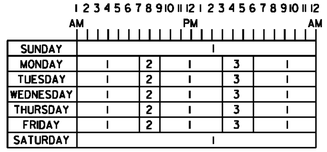
TEMPORARY TRAFFIC SIGNAL SYSTEM
NORTH MAIN ST AND MAPLE AVE / RT 62

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010_TEMPSI.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TEMPORARY TRAFFIC SIGNAL PLAN
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 189 OF 339

VHB Vanasse Hangen Brustlin, Inc.

PROGRAM PERIODS OF OPERATION



SUNDAY	1				
MONDAY	1	2	1	3	1
TUESDAY	1	2	1	3	1
WEDNESDAY	1	2	1	3	1
THURSDAY	1	2	1	3	1
FRIDAY	1	2	1	3	1
SATURDAY	1				

NOTES:

PLAN 1 - OFFPEAK (MAXIMUM 1): MIDNIGHT TO 7:00 AM, M-F
9:00 AM TO 3:00 PM, M-F
6:00 PM TO MIDNIGHT, M-F
ALL DAY SATURDAY AND SUNDAY

PLAN 2 - AM PEAK (MAXIMUM 2): 7:00 AM TO 9:00 AM, M-F

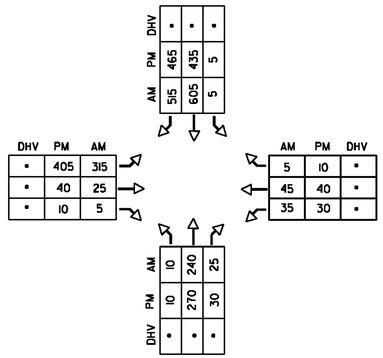
PLAN 3 - PM PEAK (MAXIMUM 3): 3:00 PM TO 6:00 PM, M-F

COORDINATION CYCLE/SPLIT OFFSET SCHEDULE

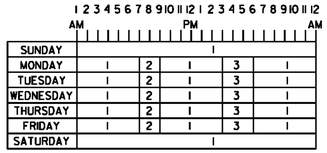
	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	80	80	FREE
COS	111	121	131	-
OFFSET	14	25	35	-
SPLIT TIME Ø1	11	11	11	-
SPLIT TIME Ø2	45	39	45	-
SPLIT TIME Ø3	0	0	0	-
SPLIT TIME Ø4	24	30	24	-
SPLIT TIME Ø5	24	18	24	-
SPLIT TIME Ø6	32	32	32	-
SPLIT TIME Ø7	0	0	0	-
SPLIT TIME Ø8	24	30	24	-

COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED GREEN PHASE (Ø4 & Ø8)

2011 AVERAGE WEEKDAY TRAFFIC DATA (PHASES 2-3)



PROGRAM PERIODS OF OPERATION



SUNDAY	1				
MONDAY	1	2	1	3	1
TUESDAY	1	2	1	3	1
WEDNESDAY	1	2	1	3	1
THURSDAY	1	2	1	3	1
FRIDAY	1	2	1	3	1
SATURDAY	1				

NOTES:

PLAN 1 - OFFPEAK (MAXIMUM 1): MIDNIGHT TO 7:00 AM, M-F
9:00 AM TO 3:00 PM, M-F
6:00 PM TO MIDNIGHT, M-F
ALL DAY SATURDAY AND SUNDAY

PLAN 2 - AM PEAK (MAXIMUM 2): 7:00 AM TO 9:00 AM, M-F

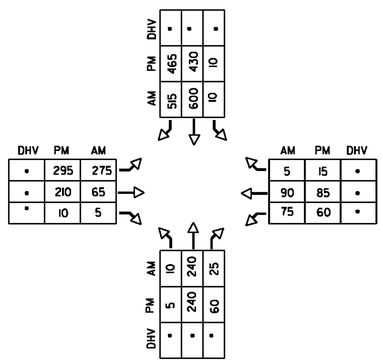
PLAN 3 - PM PEAK (MAXIMUM 3): 3:00 PM TO 6:00 PM, M-F

COORDINATION CYCLE/SPLIT OFFSET SCHEDULE

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	80	80	FREE
COS	111	121	131	-
OFFSET	13	32	40	-
SPLIT TIME Ø1	11	13	11	-
SPLIT TIME Ø2	42	37	42	-
SPLIT TIME Ø3	0	0	0	-
SPLIT TIME Ø4	27	30	27	-
SPLIT TIME Ø5	21	18	21	-
SPLIT TIME Ø6	32	32	32	-
SPLIT TIME Ø7	0	0	0	-
SPLIT TIME Ø8	27	30	27	-

COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED GREEN PHASE (Ø4 & Ø8)

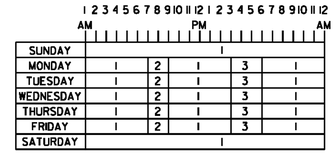
2011 AVERAGE WEEKDAY TRAFFIC DATA (PHASES 4-5)



* DHV CANNOT BE ESTIMATED FOR INTERIM CONDITIONS DURING DETOUR OPERATIONS

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

PROGRAM PERIODS OF OPERATION



SUNDAY	1				
MONDAY	1	2	1	3	1
TUESDAY	1	2	1	3	1
WEDNESDAY	1	2	1	3	1
THURSDAY	1	2	1	3	1
FRIDAY	1	2	1	3	1
SATURDAY	1				

NOTES:

PLAN 1 - OFFPEAK (MAXIMUM 1): MIDNIGHT TO 7:00 AM, M-F
9:00 AM TO 3:00 PM, M-F
6:00 PM TO MIDNIGHT, M-F
ALL DAY SATURDAY AND SUNDAY

PLAN 2 - AM PEAK (MAXIMUM 2): 7:00 AM TO 9:00 AM, M-F

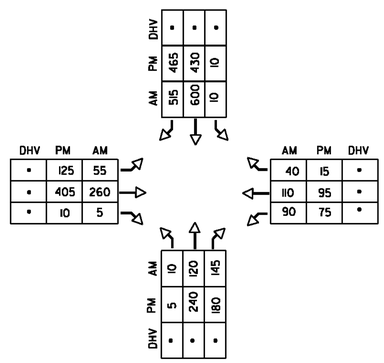
PLAN 3 - PM PEAK (MAXIMUM 3): 3:00 PM TO 6:00 PM, M-F

COORDINATION CYCLE/SPLIT OFFSET SCHEDULE

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	80	80	FREE
COS	111	121	131	-
OFFSET	15	30	35	-
SPLIT TIME Ø1	14	11	11	-
SPLIT TIME Ø2	35	32	36	-
SPLIT TIME Ø3	0	0	0	-
SPLIT TIME Ø4	31	37	33	-
SPLIT TIME Ø5	16	11	15	-
SPLIT TIME Ø6	33	32	32	-
SPLIT TIME Ø7	0	0	0	-
SPLIT TIME Ø8	31	37	33	-

COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED GREEN PHASE (Ø4 & Ø8)

2011 AVERAGE WEEKDAY TRAFFIC DATA (PHASES 6)



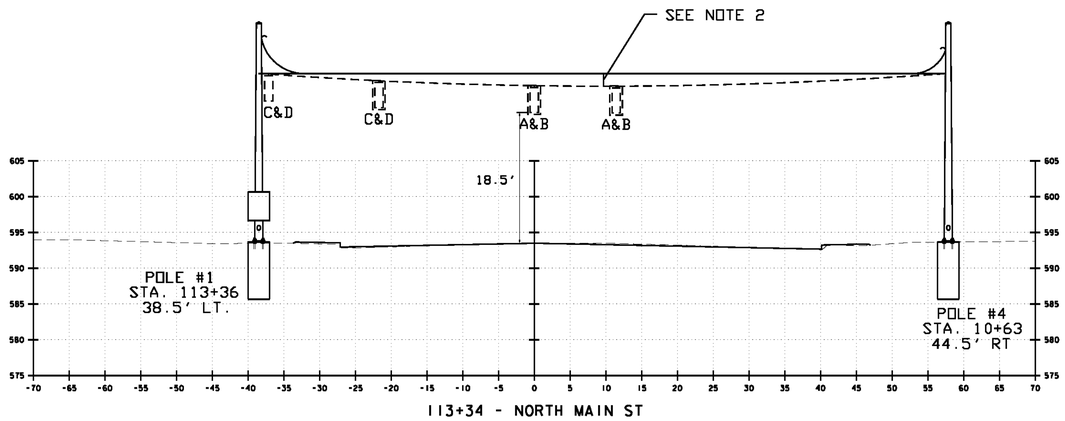


VHB Vanasse Hangen Brustlin, Inc.

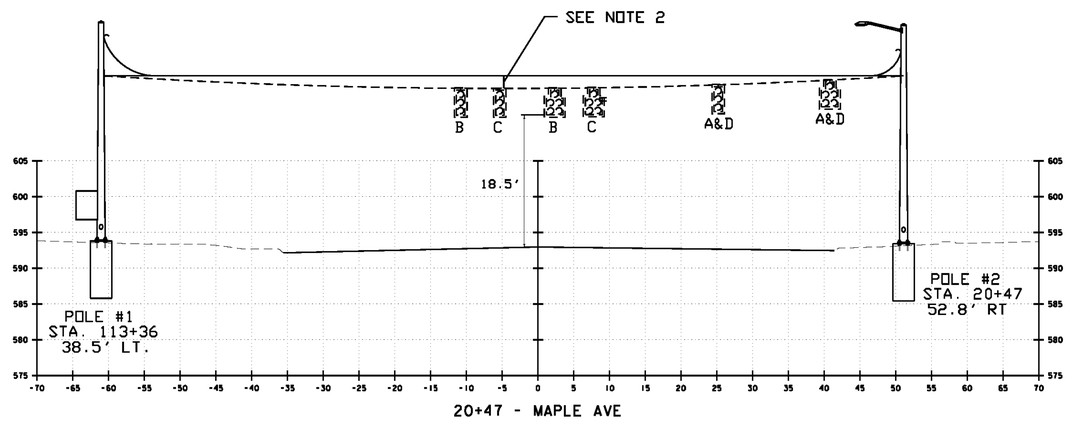
TEMPORARY TRAFFIC SIGNAL SYSTEM
NORTH MAIN ST AND MAPLE AVE / RT 62

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

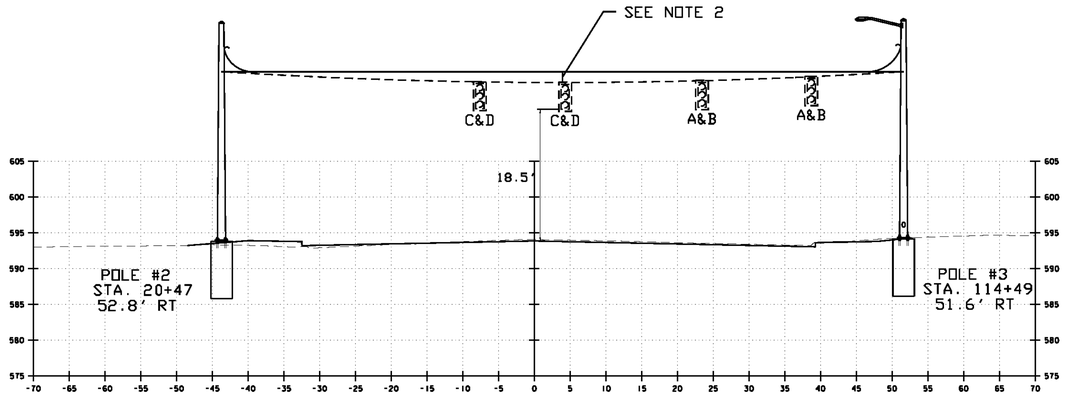
FILE NAME: z85b010_TEMPS2.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TEMPORARY TRAFFIC SIGNAL PLAN
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 190 OF 339



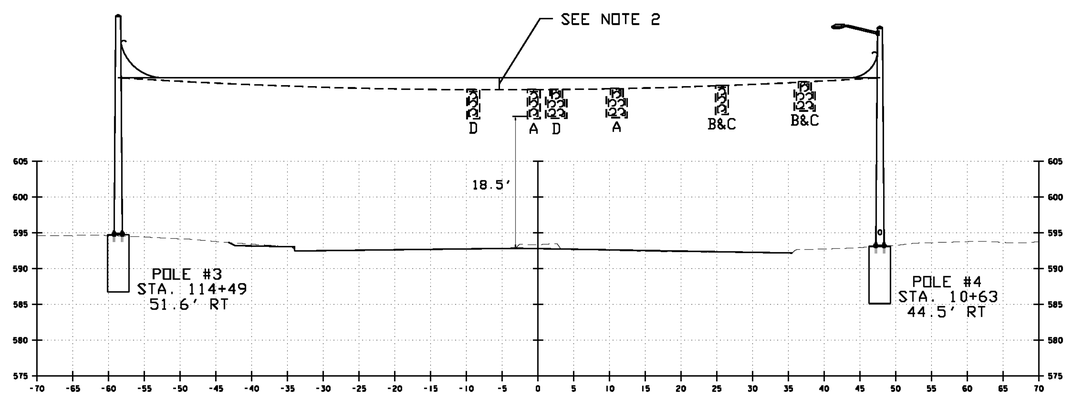
113+34 - NORTH MAIN ST



20+47 - MAPLE AVE



114+51 - NORTH MAIN ST



10+63 - VT 62

NOTES:

1. SPAN WIRE MOUNTED SIGNAL HEADS ARE SHOWN FOR CONSTRUCTION DETOUR PHASE 1, STAGES A-D. SIGNAL HEADS ARE SHOWN AT APPROXIMATE LOCATIONS. ACTUAL SIGNAL HEAD PLACEMENT SHALL BE DETERMINED IN THE FIELD BASED ON PHASED DETOUR LANE ALIGNMENT.

2. ALL SIGNAL HEAD WIRING SHALL BE FROM SPAN WIRE SPANNING FROM POLE TO POLE. SPAN WIRE SAG SHALL NOT BLOCK SIGNAL HEAD VIEWING.

3. SIGNAL HEAD LETTERS REPRESENT LOCATION OF SIGNAL HEADS DURING PHASED CONSTRUCTION. SEE CONSTRUCTION INTERSECTION DETAILS FOR LANE ALIGNMENTS (SHEETS 174, 176, 178, 180).

DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

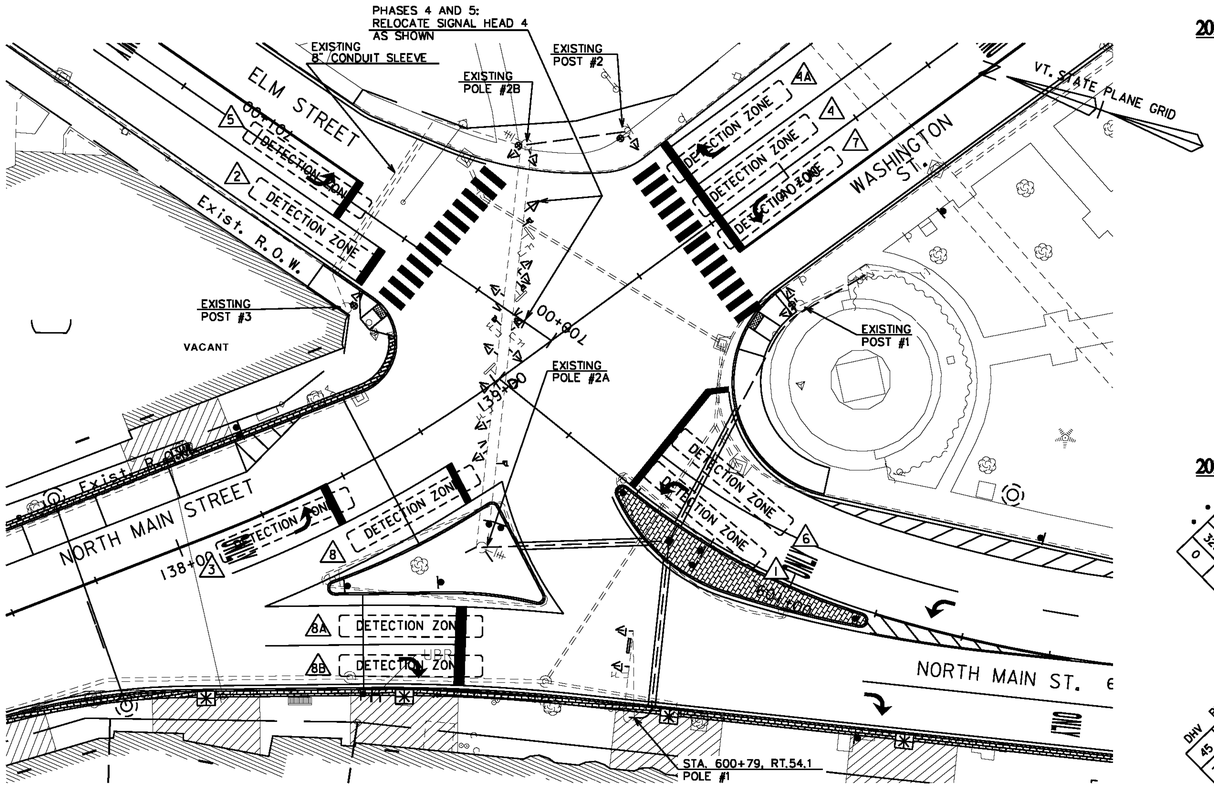
TEMPORARY TRAFFIC SIGNAL SYSTEM
NORTH MAIN ST AND MAPLE AVE / RT 62

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_TSPSID.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TEMPORARY TRAFFIC SIGNAL PLAN

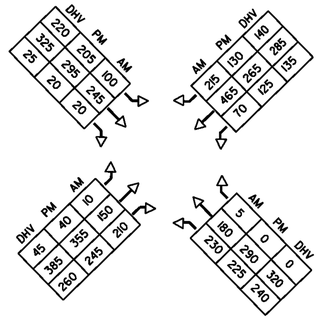
PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 191 OF 339

VHB Vanasse Hangen Brustlin, Inc.



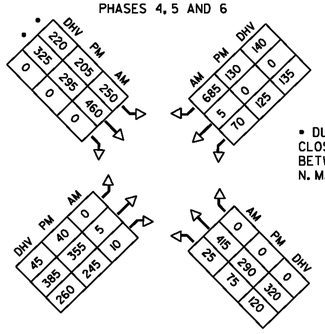
2011 AVERAGE WEEKDAY TRAFFIC DATA

PHASES 2 AND 3



2011 AVERAGE WEEKDAY TRAFFIC DATA

PHASES 4, 5 AND 6



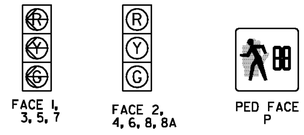
• DURING PHASE 6, ELM STREET IS CLOSED TO SOUTHBOUND TRAFFIC BETWEEN JEFFERSON STREET AND N. MAIN STREET; NO VOLUME.

LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.40	QUANTITY
RELOCATE TRAFFIC SIGNAL HEAD	1
MODIFY VIDEO DETECTION ZONE	1

EXISTING SIGNAL FACE ARRANGEMENT

(12" LED LENSES W/ 5" BACKPLATES)



AT THE COMPLETION OF THE SEWER LINE CONSTRUCTION, REINSTALL SIGNAL HEAD 4 IN ORIGINAL POSITION IN ACCORDANCE WITH CROSS-SECTION ON SHEET 169.

EXISTING DETECTION SCHEDULE

-- SEE SHEET 167

LEGEND

RELOCATE	EXISTING	LEGEND
		CONTROLLER CABINET
		SIGNAL HEAD
		CONDUIT
		OPTICAL DETECTION ZONE
		PEDESTAL POST
		STANCHION
		EMERGENCY VEHICLE PREEMPTION STROBE
		EMERGENCY VEHICLE PREEMPTION RECEIVER
		PEDESTRIAN PUSH BUTTON
		PULL BOX
		OVERHEAD SIGN
		RADIO ANTENNA
		OPTICAL DETECTION
		MAST ARM
		SIGNAL MONOTUBE STRUCTURE

PROGRAM PERIODS OF OPERATION

	1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12
	AM PM AM
SUNDAY	4
MONDAY	4 1 2 1 3 1 4
TUESDAY	4 1 2 1 3 1 4
WEDNESDAY	4 1 2 1 3 1 4
THURSDAY	4 1 2 1 3 1 4
FRIDAY	4 1 2 1 3 1 4
SATURDAY	4

NOTES:

PLAN 1 - MIDDAY (MAXIMUM 1): 6:00 AM TO 7:00 AM, M-F
9:00 AM TO 3:00 PM, M-F
6:00 PM TO 10:00 PM, M-F

PLAN 2 - AM PEAK (MAXIMUM 2): 7:00 AM TO 9:00 AM, M-F

PLAN 3 - PM PEAK (MAXIMUM 3): 3:00 PM TO 6:00 PM, M-F

PLAN 4 - OFFPEAK (MAXIMUM 1): MIDNIGHT TO 6:00 AM, M-F
10:00 PM TO MIDNIGHT, M-F
ALL DAY SATURDAYS AND SUNDAYS

COORDINATION CYCLE/SPLIT OFFSET SCHEDULE CONSTRUCTION PHASES 2 AND 3

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	90	80	FREE
COS	III	121	131	-
OFFSET	0	0	0	-
SPLIT TIME Ø1	17	19	17	-
SPLIT TIME Ø2	27	27	27	-
SPLIT TIME Ø3	II	II	II	-
SPLIT TIME Ø4	25	33	25	-
SPLIT TIME Ø5	15	16	17	-
SPLIT TIME Ø6	29	30	27	-
SPLIT TIME Ø7	II	14	II	-
SPLIT TIME Ø8	25	30	25	-

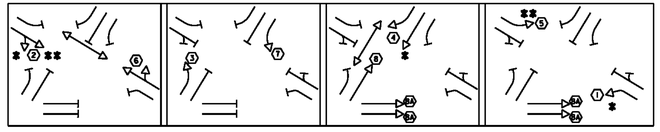
COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED PHASE (Ø1, NBL)

COORDINATION CYCLE/SPLIT OFFSET SCHEDULE CONSTRUCTION PHASES 4 THROUGH 6

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	90	80	FREE
COS	III	121	131	-
OFFSET	0	0	0	-
SPLIT TIME Ø1	II	12	17	-
SPLIT TIME Ø2	38	33	27	-
SPLIT TIME Ø3	II	13	II	-
SPLIT TIME Ø4	20	32	25	-
SPLIT TIME Ø5	20	24	17	-
SPLIT TIME Ø6	29	21	27	-
SPLIT TIME Ø7	II	16	II	-
SPLIT TIME Ø8	20	29	25	-

COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED PHASE (Ø1, NBL)

SIGNAL PHASING



W = WALK, FD = FLASHING DON'T WALK, DW = DON'T WALK, B = BLANK, FR = FLASHING RED, FY = FLASHING YELLOW

1. FACE NUMBERS ARE BASED ON NEMA PHASES
2. ALL LEFT-TURN PHASES SHALL OPERATE UNDER PROTECTED LEFT-TURN PHASING.
3. EASTBOUND RIGHT TURNS (8A) SHALL OVERLAP PHASE 1
4. • OMIT SIGNAL MOVEMENTS FOR CONSTRUCTION PHASES 4 THROUGH 6.
5. •• OMIT ALL ELM STREET MOVEMENTS FOR CONSTRUCTION PHASE 6.

EQUIPMENT NOTES

(A) SEE SHEETS 172 AND 182-188 FOR ADDITIONAL DETAILS FOR TRAFFIC CONTROL, CONSTRUCTION AND PHASING.

(B) FOR SIGN DETAILS, SEE SHEETS 96 THROUGH 109.

(C) FOR PERMANENT SIGNAL DETAILS, SEE SHEETS 168 THROUGH 170.

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

20 0 20 40
FEET

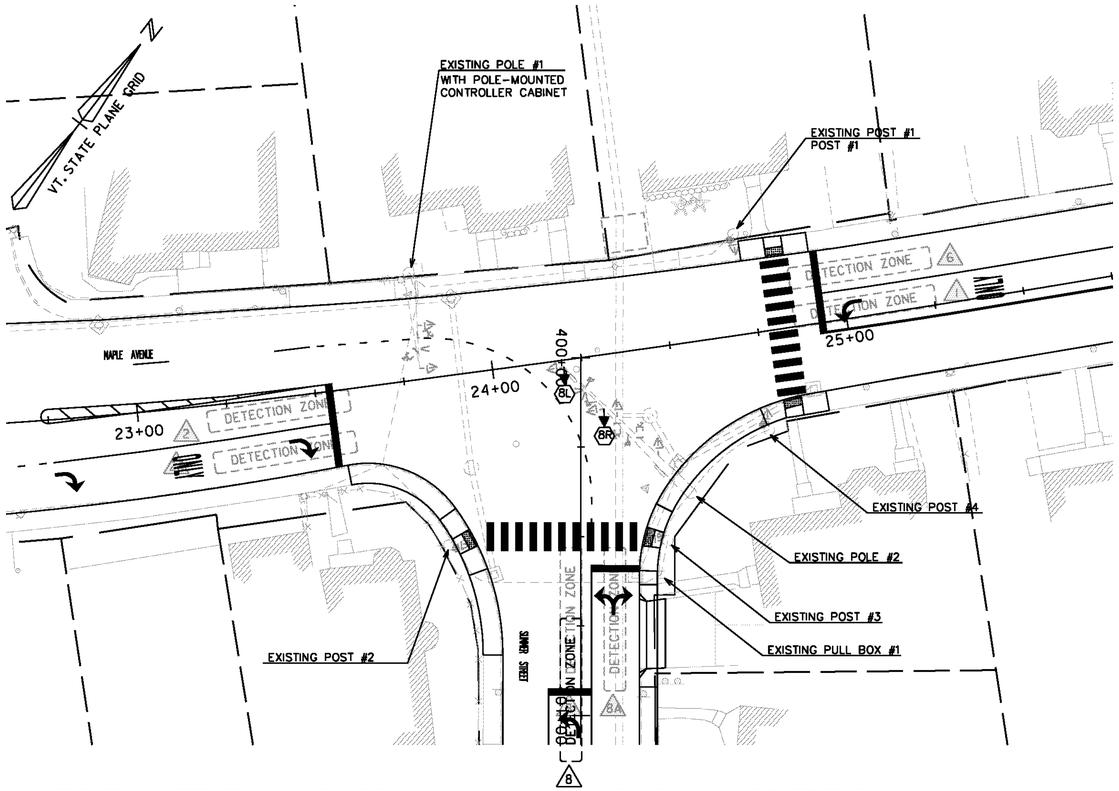
VHB Vanasse Hangen Brustlin, Inc.

TEMPORARY TRAFFIC SIGNAL SYSTEM
NORTH MAIN ST AND ELM ST/WASHINGTON ST

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_TEMPS3.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TEMPORARY TRAFFIC SIGNAL PLAN

PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 192 OF 339



TIMING AND PHASING

		PHASE 2+6 (DWELL)								PHASE 4								PHASE 8								PHASE 9								PHASE 1+6								
		R/Y	CLEAR TO							R/Y	CLEAR TO							R/Y	CLEAR TO							R/Y	CLEAR TO							R/Y	CLEAR TO							
			Ø4			Ø8					Ø8			Ø9					Ø9			Ø1+6					Ø1+6			Ø2+6					Ø2+6							
OFF PEAK REST OF DAY	VEHICLE	2								2								2								2								-								
	MINIMUM	10	4	3		4	3		4	3		4	2	5/5	4	2		4	2		4	2	5/5	4	2		4	2		4	2	5/5	4	2		4	2	4	4	2		
	MAXIMUM	40	4	3		4	3		4	3		4	2	10	4	2		4	2		4	2	30	4	2		4	2		4	2	12	4	2		4	2	10	4	2		
	MAXIMUM2	40	4	3		4	3		4	3		4	2	10	4	2		4	2		4	2	40	4	2		4	2		4	2	12	4	2		4	2	15	4	2		
	PED ACT																																									
AM PEAK 7-9 AM	VEHICLE	2								2								2								2								-								
	MINIMUM	10	4	3		4	3		4	3		4	2	5/5	4	2		4	2		4	2	5/5	4	2		4	2		4	2	5/5	4	2		4	2	4	4	2		
	MAXIMUM	45	4	3		4	3		4	3		4	2	10	4	2		4	2		4	2	45	4	2		4	2		4	2	12	4	2		4	2	10	4	2		
	MAXIMUM2	55	4	3		4	3		4	3		4	2	10	4	2		4	2		4	2	50	4	2		4	2		4	2	12	4	2		4	2	20	4	2		
	PED ACT																																									
PM PEAK 3-6 PM	VEHICLE	2								2								2								2								-								
	MINIMUM	10	4	3		4	3		4	3		4	2	5/5	4	2		4	2		4	2	5/5	4	2		4	2		4	2	5/5	4	2		4	2	4	4	2		
	MAXIMUM	45	4	3		4	3		4	3		4	2	10	4	2		4	2		4	2	45	4	2		4	2		4	2	12	4	2		4	2	10	4	2		
	MAXIMUM2	55	4	3		4	3		4	3		4	2	10	4	2		4	2		4	2	50	4	2		4	2		4	2	12	4	2		4	2	20	4	2		
	PED ACT																																									
FACE 1		G	Y	R		Y	R		Y	R		G	G	R	R	R		R	R		R	R	R	R	R		R	R		R	R	R	R	R		R	R	✕	✕	G		FY
FACE 2		G	Y	R		Y	R		Y	R		Y	R	R	R	R		R	R		R	R	R	R	R		R	R		R	R	R	R	R		R	R	R	R	G		FY
FACE 4		R	R	R		R	R		R	R		R	R	G	Y	R		Y	R		Y	R	R	R	R		R	R		R	R	R	R	R		R	R	R	R	G		FR
FACE 6		G	Y	R		Y	R		Y	R		G	G	R	R	R		R	R		R	R	R	R	R		R	R		R	R	R	R	R		R	R	G	G	G		FY
FACE 8		R	R	R		R	R		R	R		R	R	R	R	R		R	R		R	R	G	Y	R		Y	R		R	R	R	R	R		R	R	R	R	G		FR
PED (N-S)		DW	DW	DW		DW	DW		DW	DW		DW	DW	DW	DW	DW		DW	DW		DW	DW	DW	DW	DW		DW	DW		FD	DW		FD	DW		DW	DW	DW	B			B
PED (E-W)		DW	DW	DW		DW	DW		DW	DW		DW	DW	5/5	FD	DW		W	W		FD	DW		FD	DW		FD	DW		FD	DW		FD	DW		DW	DW	DW	B			B



W = WALK, FD = FLASHING DON'T WALK, DW = DON'T WALK, B = BLANK, FR = FLASHING RED, FY = FLASHING YELLOW

1. FACE NUMBERS ARE BASED ON NEMA PHASES
2. SOUTHBOUND LEFT-TURN SHALL OPERATE UNDER PROTECTED/PERMISSIVE LEFT-TURN PHASING.

PROGRAM PERIODS OF OPERATION

	1 2 3 4 5 6 7 8 9 10 11 12 AM	1 2 3 4 5 6 7 8 9 10 11 12 PM
SUNDAY	4	
MONDAY	4	1 2 1 3 1 4
TUESDAY	4	1 2 1 3 1 4
WEDNESDAY	4	1 2 1 3 1 4
THURSDAY	4	1 2 1 3 1 4
FRIDAY	4	1 2 1 3 1 4
SATURDAY	4	

NOTES:

PLAN 1 - MIDDAY (MAXIMUM 1): 6:00 AM TO 7:00 AM, M-F
9:00 AM TO 3:00 PM, M-F
6:00 PM TO 10:00 PM, M-F

PLAN 2 - AM PEAK (MAXIMUM 2): 7:00 AM TO 9:00 AM, M-F

PLAN 3 - PM PEAK (MAXIMUM 2): 3:00 PM TO 6:00 PM, M-F

PLAN 4 - OFFPEAK (MAXIMUM 1): MIDNIGHT TO 6:00 AM, M-F
10:00 PM TO MIDNIGHT, M-F
ALL DAY SATURDAYS AND SUNDAYS

LEGEND

NEW	EXISTING	LEGEND
		CONTROLLER CABINET
		SIGNAL HEAD
		CONDUIT
		OPTICAL DETECTION ZONE
		PEDESTAL POST
		STANCHION
		EMERGENCY VEHICLE PREEMPTION STROBE
		EMERGENCY VEHICLE PREEMPTION RECEIVER
		PEDESTRIAN PUSH BUTTON
		PULL BOX
		OVERHEAD SIGN
		RADIO ANTENNA
		OPTICAL DETECTION
		MAST ARM

EXISTING DETECTION SCHEDULE

OPTICAL VIDEO DETECTORS							
LOOP NO.	LANE	CALL Ø	SIZE	TYPE & NO. TURNS	DELAY OR PRESENCE	SLOT	CHANNEL
1	SBLT	1	6X40	OPTICAL	PRESENCE	2	1
2	NBTH	2	6X40	OPTICAL	PRESENCE	4	1
2A	NBRT	2	6X40	OPTICAL	5 SEC DELAY	4	2
4	DW	4	6X40	OPTICAL	PRESENCE	6	1
6	SBTH	6	6X40	OPTICAL	PRESENCE	2	2
8	WBLT	8	6X40	OPTICAL	PRESENCE	8	1
8A	WBRT	8	6X40	OPTICAL	5 SEC DELAY	8	2

LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.40	QUANTITY
ONE WAY, 3-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK	1
ONE WAY, 4-SECTION, 12-INCH POLYCARBONATE MAST ARM MOUNTED LED TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND LOUVERED BACKPLATES WITH ALL PIECES PAINTED FLAT BLACK	1
ASTRO-BRACKETS	2

SIGNAL FACE ARRANGEMENT

(12" LED LENSES W/ 5" BACKPLATES)



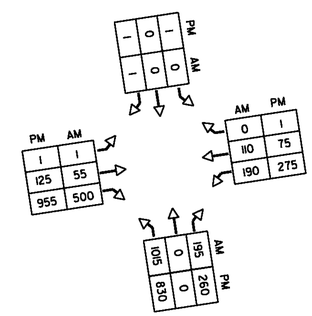
DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 27

COORDINATION CYCLE / SPLIT / OFFSET SCHEDULE

	PLAN 1	PLAN 2	PLAN 3	PLAN 4
CYCLE LENGTH	80	80	80	FREE
COS	111	121	131	-
OFFSET	0	0	0	-
SPLIT TIME Ø1	15	11	17	-
SPLIT TIME Ø2	21	23	21	-
SPLIT TIME Ø3	0	0	0	-
SPLIT TIME Ø4	24	26	22	-
SPLIT TIME Ø5	0	0	0	-
SPLIT TIME Ø6	36	34	38	-
SPLIT TIME Ø7	0	0	0	-
SPLIT TIME Ø8	24	26	22	-
SPLIT TIME Ø9	20	20	20	-

COORDINATION NOTES:
1. OFFSET IS REFERENCED TO BEGINNING OF THE COORDINATED PHASE (Ø2 & Ø6)

2011 AVERAGE WEEKDAY TRAFFIC DATA



EQUIPMENT NOTES

(A) SEE STANDARDS E-170, E-171A, E-171B, E-171C, E-173, & E-175 FOR ADDITIONAL INFORMATION.

(B) FOR TEMPORARY SIGN DETAILS, SEE SHEET 195.

(C) SEE SHEETS 172 AND 182-188 FOR ADDITIONAL DETAILS FOR TRAFFIC CONTROL, CONSTRUCTION, AND PHASING.

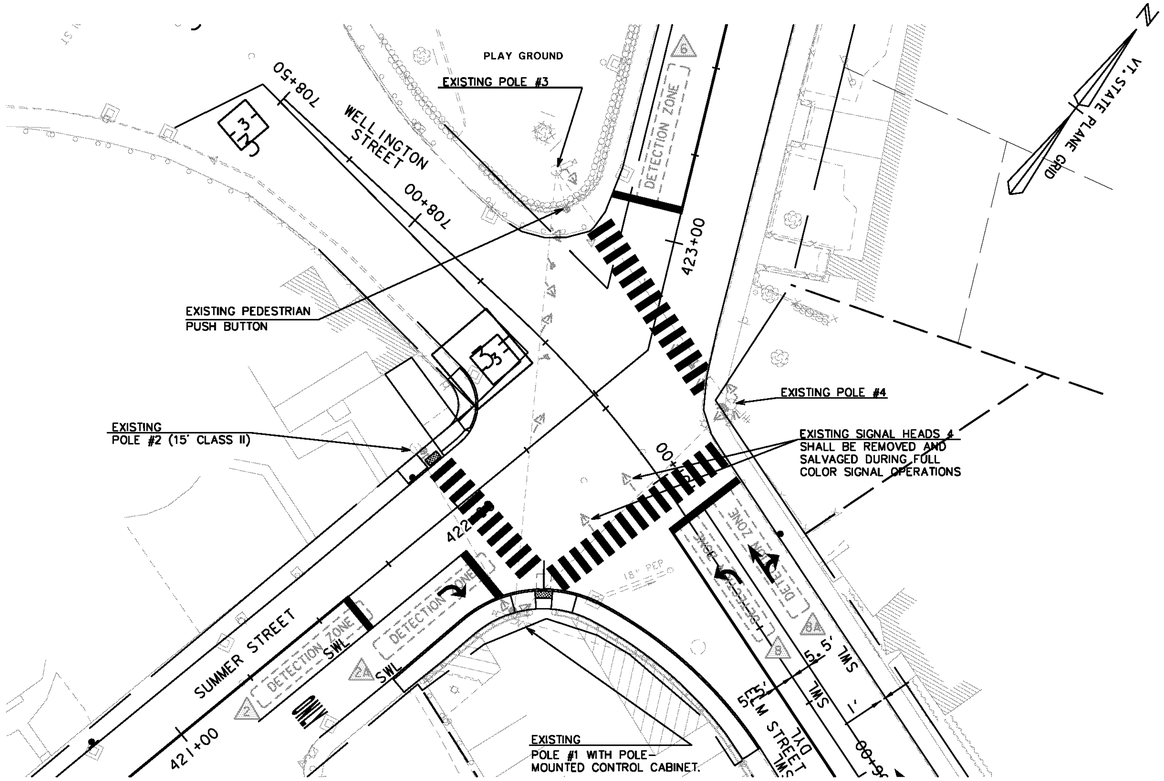
(D) CONTRACTOR SHALL MODIFY TIMING PLAN IN ACCORDANCE WITH DETOUR TRAFFIC CONDITIONS

TEMPORARY TRAFFIC SIGNAL SYSTEM
MAPLE AVE AND SUMMER ST

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85B010_TSPS4
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TEMPORARY TRAFFIC SIGNAL PLAN
PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 193 OF 339

VHB Vanasse Hangen Brustlin, Inc.

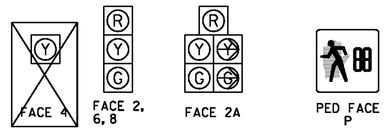


EXISTING DETECTION SCHEDULE

OPTICAL VIDEO DETECTORS							
LOOP NO.	LANE	CALL Ø	SIZE	TYPE & NO. TURNS	DELAY OR PRESENCE	SLOT	CHANNEL
2	EBTH	2	6X40	OPTICAL	PRESENCE	4	1
4A	EBRT	2	6X40	OPTICAL	5 SEC DELAY	4	2
6	WBTH	6	6X40	OPTICAL	PRESENCE	2	1
8	NBLT	8	6X40	OPTICAL	PRESENCE	8	1
4A	NBRT	8	6X40	OPTICAL	PRESENCE	8	2

EXISTING SIGNAL FACE ARRANGEMENT

(12" LED LENSES W/ 5" BACKPLATES)



LIST OF MAJOR EQUIPMENT

EQUIPMENT ITEM 678.40	QUANTITY
REMOVE AND SALVAGE SIGNAL HEADS	2
UNCOVER AND ACTIVATE PEDESTRIAN SIGNAL EQUIPMENT	-

EQUIPMENT NOTES

(A) SEE STANDARDS E-170, E-171A, E-171B, E-171C, E-173, & E-175 FOR ADDITIONAL INFORMATION.

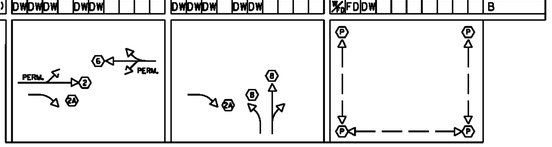
(B) FOR TEMPORARY SIGN DETAILS, SEE SHEET 199.

(C) CONTRACTOR SHALL MODIFY TIMING PLAN IN ACCORDANCE TO DETOUR TRAFFIC CONDITIONS

(D) SEE SHEETS 172 AND 183-188 FOR ADDITIONAL DETAILS FOR TRAFFIC CONTROL, CONSTRUCTION AND PHASING.

TIMING AND PHASING

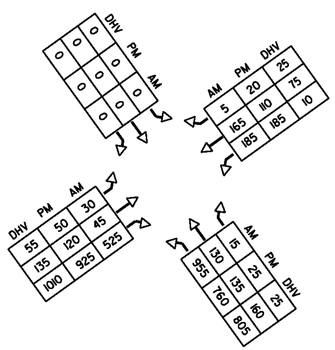
		PHASE 2+6 (DWELL)						PHASE 8						PHASE 9						
		W/	CLEAR TO Ø8		CLEAR TO Ø9			W/	CLEAR TO Ø9		CLEAR TO Ø2+6			W/	CLEAR TO Ø 2+6					FLASHING OPERATION
OFF PEAK REST OF DAY	VEHICLE	2						2						2						
	MINIMUM	8	4	2	4	2		10	4	2	4	2		5/16	4	2				
	MAXIMUM	25	4	2	4	2		65	4	2	4	2		5/16	4	2				
	MAXIMUM2	35	4	2	4	2		70	4	2	4	2		5/16	4	2				
	PED ACT																			
AM PEAK 7-9 AM	VEHICLE	2						2						2						
	MINIMUM	8	4	2	4	2		10	4	2	4	2		5/16	4	2				
	MAXIMUM	30	4	2	4	2		70	4	2	4	2		5/16	4	2				
	MAXIMUM2	45	4	2	4	2		80	4	2	4	2		5/16	4	2				
	PED ACT																			
PM PEAK 3-6 PM	VEHICLE	2						2						2						
	MINIMUM	8	4	2	4	2		10	4	2	4	2		5/16	4	2				
	MAXIMUM	35	4	2	4	2		60	4	2	4	2		5/16	4	2				
	MAXIMUM2	45	4	2	4	2		70	4	2	4	2		5/16	4	2				
	PED ACT																			
	FACE 2	G	Y	R	Y	R		R	R	R	R	R		R	R	R				FR
	FACE 2A	G	Y	R	Y	R		5/16	5/16	R	5/16	R		R	R	R				FR
	FACE 6	G	Y	R	Y	R		R	R	R	R	R		R	R	R				FR
	FACE 8	R	R	R	R	R		G	Y	R	Y	R		R	R	R				FR
	PED (N-S)	DW	DW	DW	DW	DW		DW	DW	DW	DW	DW		5/16	FD	DW				B
	PED (E-W)	DW	DW	DW	DW	DW		DW	DW	DW	DW	DW		5/16	FD	DW				B



W = WALK, FD = FLASHING DON'T WALK, DW = DON'T WALK, B = BLANK, FR = FLASHING RED, FY = FLASHING YELLOW

1. FACE NUMBERS ARE BASED ON NEMA PHASES
2. EASTBOUND RIGHT-TURN SHALL OPERATE UNDER PROTECTED/PERMISSIVE RIGHT-TURN PHASING.

2011 AVERAGE WEEKDAY TRAFFIC DATA



DATUM

VERTICAL NAVD 1929

HORIZONTAL NAD 27

LEGEND

EXISTING	LEGEND
	CONTROLLER CABINET
	SIGNAL HEAD
	CONDUIT
	OPTICAL DETECTION ZONE
	PEDESTAL POST
	STANCHION
	EMERGENCY VEHICLE PREEMPTION STROBE
	EMERGENCY VEHICLE PREEMPTION RECEIVER
	PEDESTRIAN PUSH BUTTON
	PULL BOX
	OVERHEAD SIGN
	RADIO ANTENNA
	OPTICAL DETECTION
	MAST ARM
	STEEL STRAIN POLE

20 0 20 40
FEET

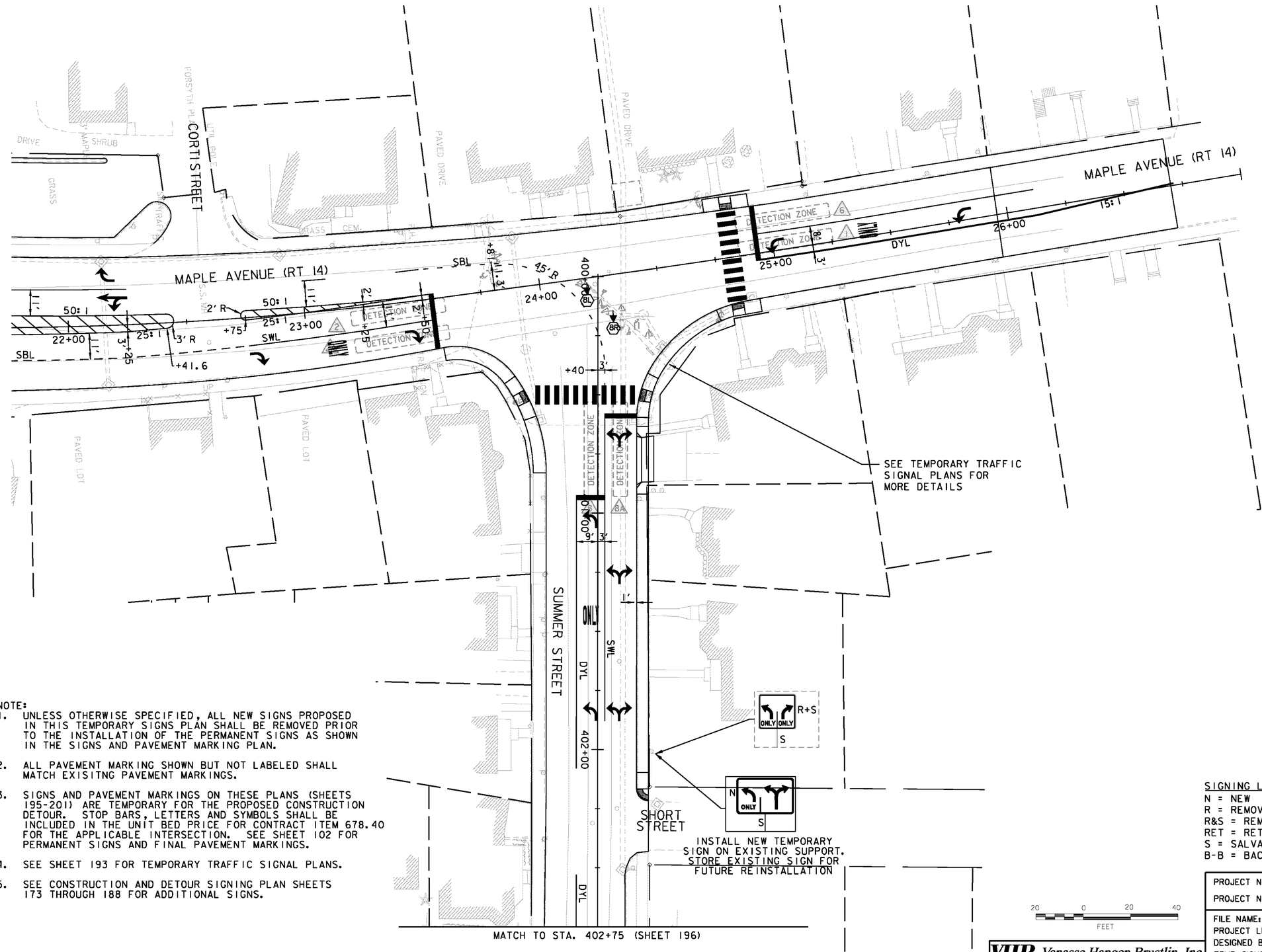
TEMPORARY TRAFFIC SIGNAL SYSTEM
SUMMER ST AND ELM ST/WELLINGTON ST

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_TSPS5.dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
TEMPORARY TRAFFIC SIGNAL PLAN

PLOT DATE: 3/31/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 194 OF 339



NOTE:

1. UNLESS OTHERWISE SPECIFIED, ALL NEW SIGNS PROPOSED IN THIS TEMPORARY SIGNS PLAN SHALL BE REMOVED PRIOR TO THE INSTALLATION OF THE PERMANENT SIGNS AS SHOWN IN THE SIGNS AND PAVEMENT MARKING PLAN.
2. ALL PAVEMENT MARKING SHOWN BUT NOT LABELED SHALL MATCH EXISITNG PAVEMENT MARKINGS.
3. SIGNS AND PAVEMENT MARKINGS ON THESE PLANS (SHEETS 195-201) ARE TEMPORARY FOR THE PROPOSED CONSTRUCTION DETOUR. STOP BARS, LETTERS AND SYMBOLS SHALL BE INCLUDED IN THE UNIT BED PRICE FOR CONTRACT ITEM 678.40 FOR THE APPLICABLE INTERSECTION. SEE SHEET 102 FOR PERMANENT SIGNS AND FINAL PAVEMENT MARKINGS.
4. SEE SHEET 193 FOR TEMPORARY TRAFFIC SIGNAL PLANS.
5. SEE CONSTRUCTION AND DETOUR SIGNING PLAN SHEETS 173 THROUGH 188 FOR ADDITIONAL SIGNS.

TEMPORARY 4 INCH YELLOW LINE
SL STA 400+92 - 402+08 RT (DOUBLE)
SL STA 402+54 - 402+75 RT (DOUBLE)

24 INCH STOP BAR
SL STA 400+93 LT-RT
SL STA 400+59 RT-RT

TEMPORARY 4 INCH WHITE LINE
SL STA 400+58 - 401+88 LT
SL STA 400+58 - 23+50 LT (BROKEN)
SL STA 21+75 - 22+75 RT (BROKEN)

LETTER OR SYMBOL
SL STA 400+68 LT (LEFT-RIGHT ARROW)
SL STA 401+25 LT (LEFT-RIGHT ARROW)
SL STA 401+84 LT (LEFT-RIGHT ARROW)
SL STA 401+03 CL (LEFT ARROW)
SL STA 401+43 CL ("ONLY")
SL STA 401+84 CL (LEFT ARROW)

CROSSWALK MARKING
SL STA 401+50 LT - SL STA 401+50 RT
SL STA 24+83 LT - SL STA 24+83 RT

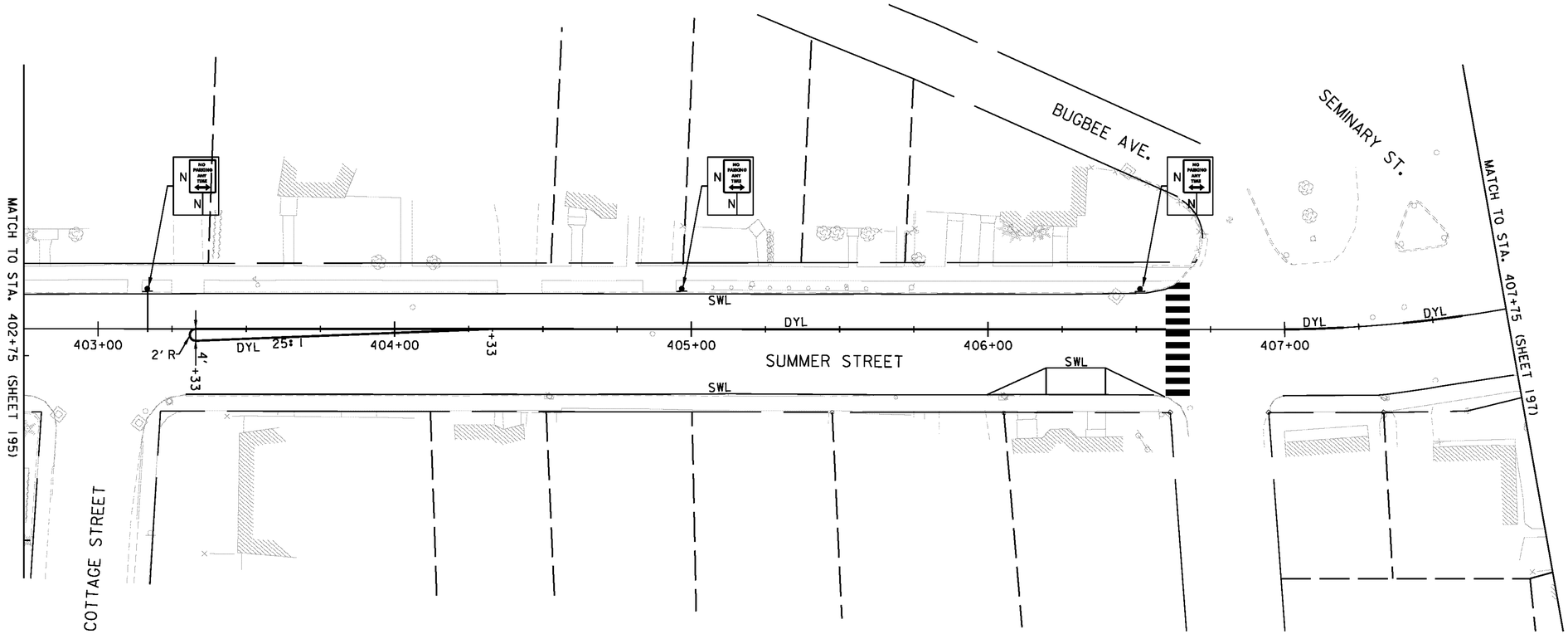
SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK

STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr tcp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
TEMP. SIGNS & PAVEMENT MARKING PLAN #1
SHEET 195 OF 339



TEMPORARY 4 INCH YELLOW LINE
SL STA 403+31 - 406+60 CL (DOUBLE)
SL STA 403+31 - 404+33 RT (DOUBLE)
SL STA 407+00 - 407+20 CL (DOUBLE)
SL STA 407+40 - 407+60 CL (DOUBLE)

TEMPORARY 4 INCH WHITE LINE
SL STA 402+75 - 406+64 LT
SL STA 403+30 - 406+56 RT
SL STA 406+00 - 406+60 RT (PARKING)

SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK

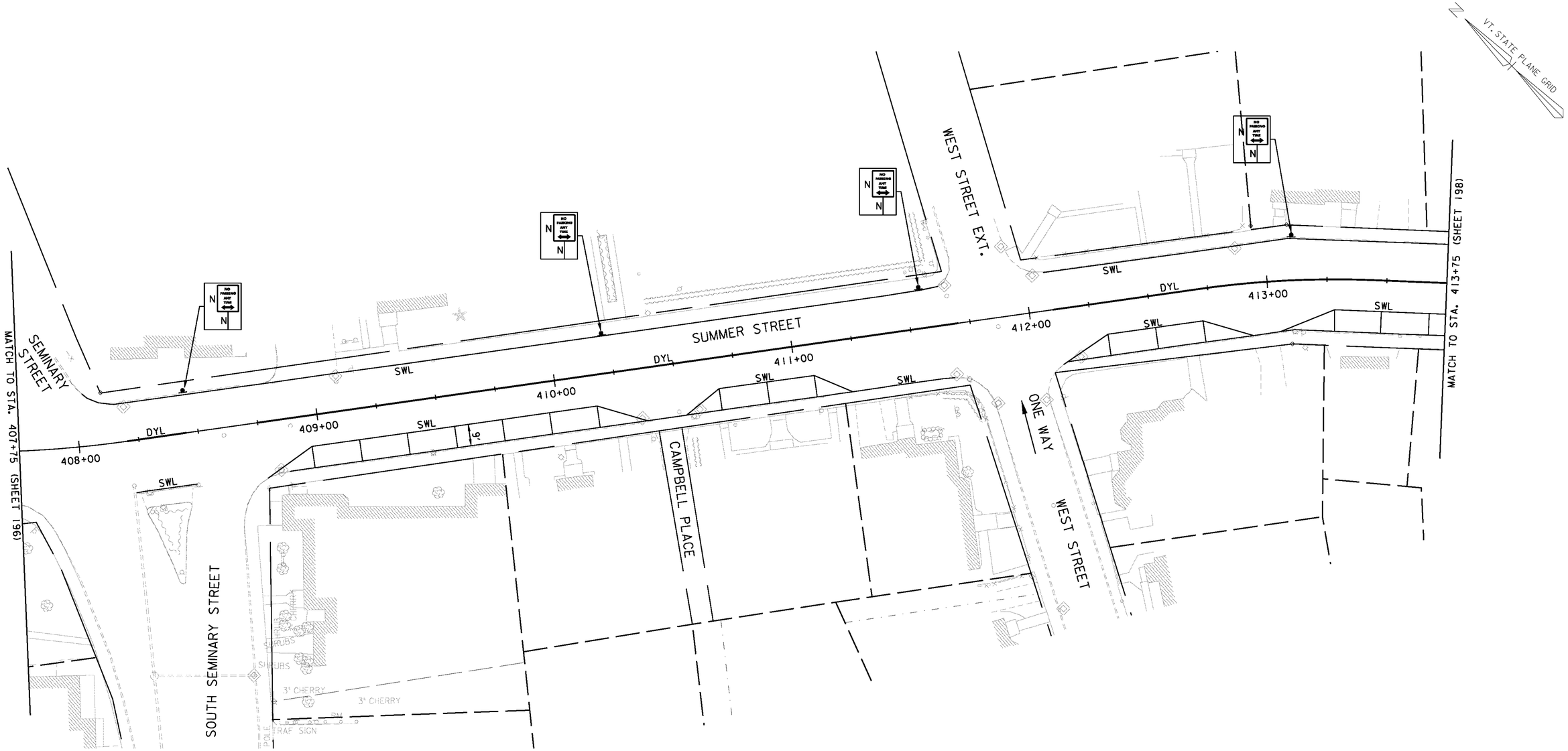
STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr tcp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
TEMP. SIGNS & PAVEMENT MARKING PLAN #2 SHEET 196 OF 339



TEMPORARY 4 INCH YELLOW LINE

SL STA 408+20 - 408+45 CL (DOUBLE)
SL STA 408+75 - 411+70 CL (DOUBLE)
SL STA 412+10 - 413+75 CL (DOUBLE)

TEMPORARY 4 INCH WHITE LINE

SL STA 408+03 - 411+64 LT
SL STA 408+21 - 408+47 RT
SL STA 408+76 - 411+23 RT (PARKING)
SL STA 411+23 - 411+66 RT
SL STA 412+08 - 413+75 LT
SL STA 412+11 - 413+75 RT (PARKING)

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK

STRIPING LEGEND

SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

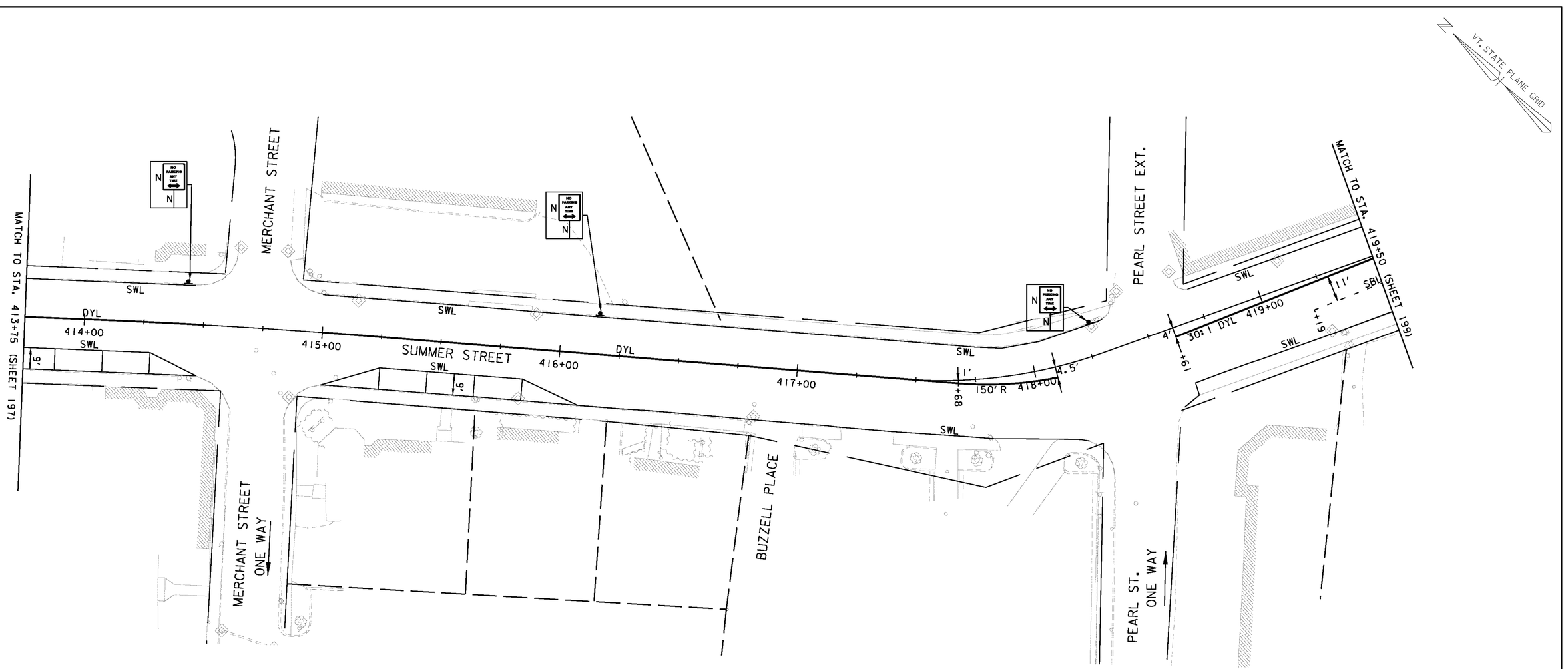
20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr tcp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:

TEMP. SIGNS & PAVEMENT MARKING PLAN #3 SHEET 197 OF 339



TEMPORARY 4 INCH YELLOW LINE

SL STA 413+75 - 414+50 CL (DOUBLE)
SL STA 415+00 - 418+13 CL (DOUBLE)
SL STA 417+55 - 418+13 RT (DOUBLE)
SL STA 418+65 - 419+50 CL (DOUBLE)
SL STA 418+65 - 419+50 RT (DOUBLE)

TEMPORARY 4 INCH WHITE LINE

SL STA 413+75 - 414+46 LT
SL STA 415+00 - 418+34 LT
SL STA 418+72 - 419+50 LT
SL STA 413+75 - 414+48 RT (PARKING)
SL STA 415+01 - 416+09 RT (PARKING)
SL STA 416+09 - 418+15 RT
SL STA 418+55 - 419+50 RT
SBL STA 418+71 - 419+50 RT

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK

STRIPING LEGEND

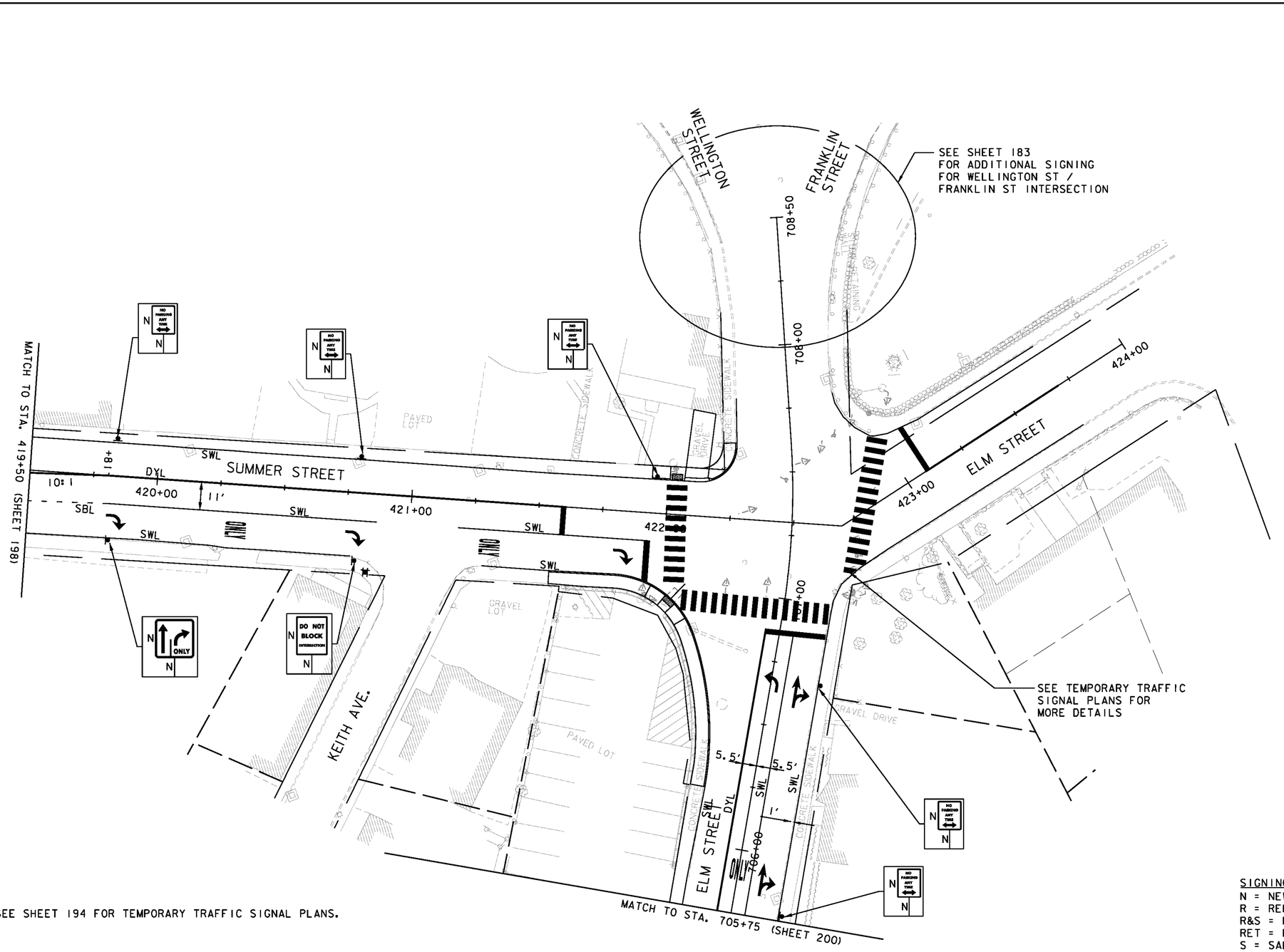
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr tcp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
TEMP. SIGNS & PAVEMENT MARKING PLAN #4
SHEET 198 OF 339



NOTE:
1. SEE SHEET 194 FOR TEMPORARY TRAFFIC SIGNAL PLANS.

TEMPORARY 4 INCH YELLOW LINE
SL STA 419+50 - 419+81 RT (DOUBLE)
SL STA 419+50 - 421+61 CL (DOUBLE)
SL STA 605+75 - 706+87 LT (DOUBLE)

24 INCH STOP BAR
SL STA 421+60 CL-RT
SL STA 421+93 RT-RT
SL STA 706+87 LT-RT

TEMPORARY 4 INCH WHITE LINE
SL STA 419+50 - 422+17 LT
SL STA 419+50 - 420+77 RT
SL STA 421+29 RT - 605+75 LT
SL STA 419+81 - 420+87 RT
SL STA 421+19 - 420+94 RT
SBL STA 419+50 - 419+81 RT
SL STA 605+75 - 706+88 RT
SL STA 605+75 - 707+08 RT

LETTER OR SYMBOL
SL STA 419+85 RT (RIGHT ARROW)
SL STA 420+32 RT ("ONLY")
SL STA 420+79 RT (RIGHT ARROW)
SL STA 421+32 RT ("ONLY")
SL STA 421+85 RT (RIGHT ARROW)
SL STA 706+68 CL (LEFT ARROW)
SL STA 705+88 RT (THRU-RIGHT ARROW)
SL STA 705+92 CL ("ONLY")
SL STA 706+65 RT (THRU-RIGHT ARROW)

SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK

STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

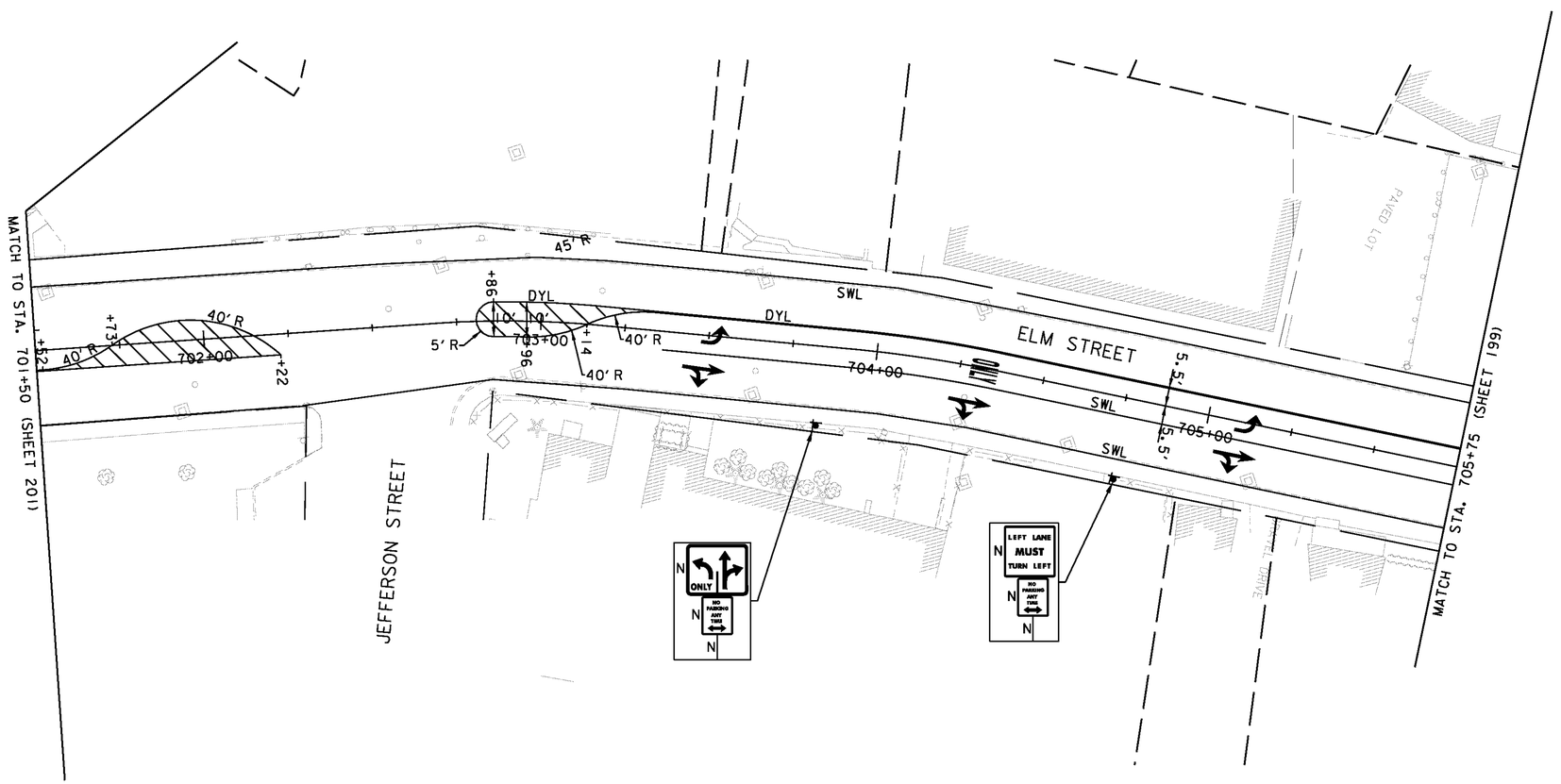
20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr tcp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
TEMP. SIGNS & PAVEMENT MARKING PLAN #5

PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 199 OF 339



LETTER OR SYMBOL

SL STA 703+50 CL (LEFT ARROW)
SL STA 703+48 RT (THRU-RIGHT ARROW)
SL STA 704+32 CL ("ONLY")
SL STA 704+28 RT (THRU-RIGHT ARROW)
SL STA 705+11 CL (LEFT ARROW)
SL STA 705+09 RT (THRU-RIGHT ARROW)

TEMPORARY 4 INCH YELLOW LINE

SL STA 702+80 - 705+75 LT (DOUBLE)
SL STA 702+80 RT - 703+34 LT (DOUBLE)
SL STA 702+80 RT - 703+34 LT (ISLAND)

TEMPORARY 4 INCH WHITE LINE

SL STA 701+50 - 705+75 LT
SL STA 702+86 - 705+75 RT
SL STA 703+37 - 705+75 RT

SIGNING LEGEND

N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK

STRIPING LEGEND

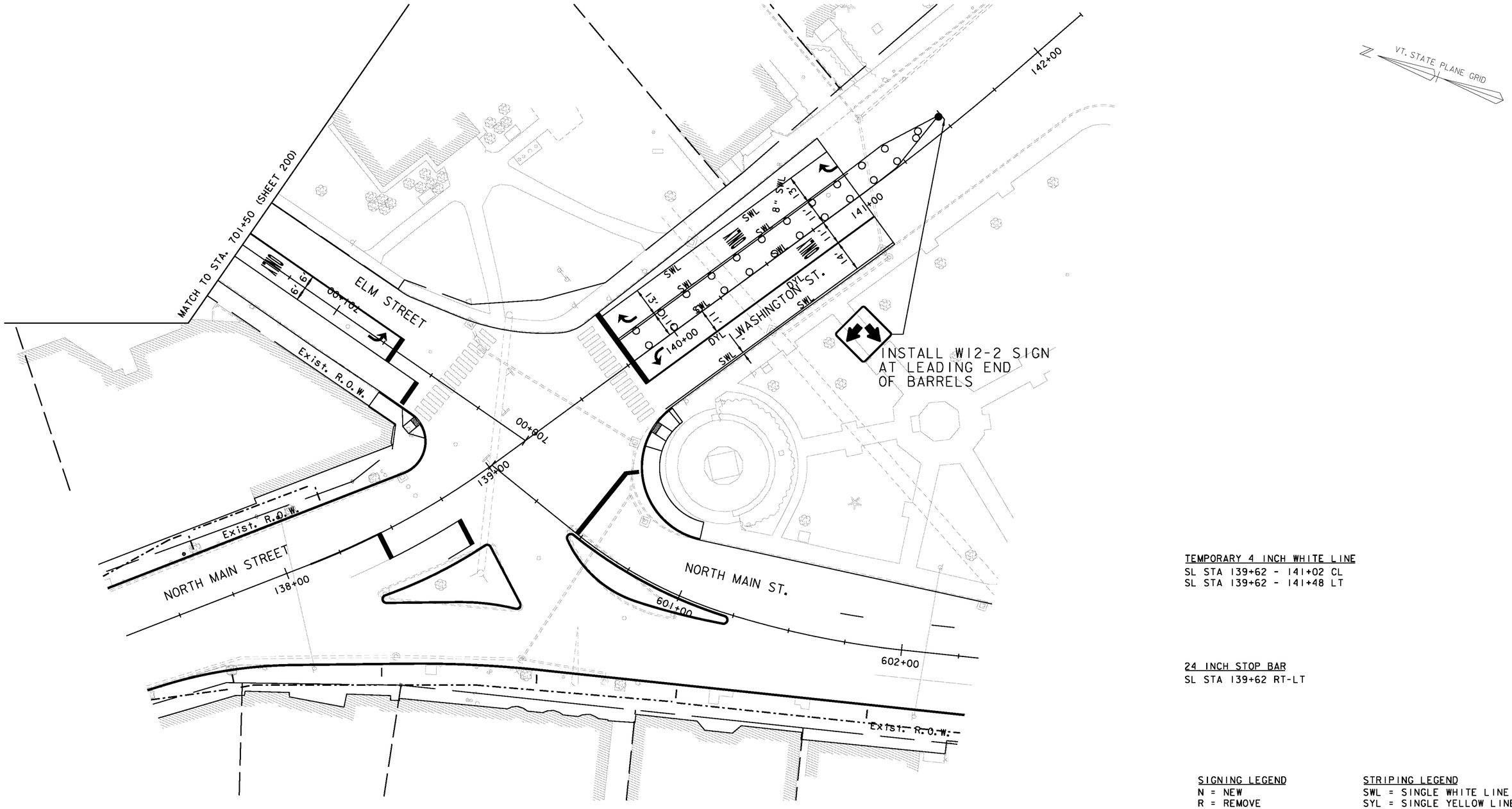
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010bdr tcp C2 PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS DRAWN BY: D. PECK
DESIGNED BY: D. PECK CHECKED BY:
TEMP. SIGNS & PAVEMENT MARKING PLAN #6 SHEET 200 OF 339



TEMPORARY 4 INCH WHITE LINE
SL STA 139+62 - 141+02 CL
SL STA 139+62 - 141+48 LT

24 INCH STOP BAR
SL STA 139+62 RT-LT

NOTE:
1. TEMPORARY SIGNING AND STRIPING ALONG WASHINGTON STREET SHALL BE USED ONLY DURING PHASES 4 & 5.
2. SEE SHEET 100 FOR PERMANENT SIGNS AND FINAL PAVEMENT MARKINGS.
3. SEE SHEET 192 FOR TEMPORARY TRAFFIC SIGNAL PLAN.

SIGNING LEGEND
N = NEW
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED SIGN
B-B = BACK TO BACK

STRIPING LEGEND
SWL = SINGLE WHITE LINE
SYL = SINGLE YELLOW LINE
DYL = DOUBLE YELLOW LINE
SDL = SINGLE DASHED LINE
SBL = SINGLE BROKEN LINE

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: z85b010bdr tcp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
PLOT DATE: 3/9/2011
DRAWN BY: D. PECK
CHECKED BY:
TEMP. SIGNS & PAVEMENT MARKING PLAN #7 SHEET 201 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TEMPORARY TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.16	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	LB/FT 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
OPTION ITEMS																																			
SUMMER STREET																																			
402+00, LT	ONLY	1	48	30	10.00				1																								TEMPORARY SIGN VR-926		E-145A
403+17, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X																TEMPORARY SIGN SHS R7-1		
404+97, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X																TEMPORARY SIGN SHS R7-1		
406+51, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X																TEMPORARY SIGN R7-1		
408+46, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
410+22, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
411+66, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
413+11, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
414+43, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
416+15, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
418+28, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
419+81, RT	ONLY	1	30	30	6.25						1					X			X													TEMPORARY SIGN VR-921		E-145A
419+83, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
420+79, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X													TEMPORARY SIGN R7-1		
												FT	FT	FT	FT 156	FT	FT		EA 10	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 34.25	SF	EA.	SF				FT			FT 156					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

AVERAGE POST LENGTH = 12 FT

NOTE:

PAYMENT FOR TEMPORARY TRAFFIC SIGNS WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: z85b010_TTSSS.dgn	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
TEMPORARY TRAFFIC SIGN SUMMARY SHEET	SHEET 202 OF 339

VHB Vanasse Hangen Brustlin, Inc.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TEMPORARY TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (IN)	HEIGHT (IN)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL LB/FT 1.12	2.0	3.0	SQUARE STEEL (IN) LB/FT 1.75 1.88	2.0 2.16	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) LB/FT 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (IN) FOUNDATION	LB/FT 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
OPTION ITEMS																																			
SUMMER STREET																																			
420+79, RT	DO NOT BLOCK INTERSECTION	1	24	30	5.00						1					X			X														TEMPORARY SIGN R10-7		
421+95, LT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X														TEMPORARY SIGN R7-1		
ELM STREET																																			
703+84, RT	ONLY NO PARKING ANY TIME	1 1	36 12	30 18	7.50 1.50						1						X																VR-922 TEMPORARY SIGNS R7-1		E-145A
704+76, RT	LEFT LANE MUST TURN LEFT NO PARKING ANY TIME	1 1	30 12	30 18	6.25 1.50						1						X																R3-7L TEMPORARY SIGNS R7-1		
705+77, RT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X														TEMPORARY SIGN R7-1		
706+69, RT	NO PARKING ANY TIME	1	12	18	1.50						1					X			X														TEMPORARY SIGN R7-1		
												FT	FT	FT	FT	FT 60	FT 30		EA	LB	LB	LB		LB	LB	LB	LB								
SUB TOTALS					SF 26.25	SF	EA.	SF				FT			FT 90				EA 4	LB			EA.	LB			EA.	EA.	LB						
FROM SHEET 202					34.25										156				10																
TOTALS					60.50										246				14																

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

AVERAGE POST LENGTH = 15 FT

NOTE:

PAYMENT FOR TEMPORARY TRAFFIC SIGNS WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: z85b010_TTSSS.dgn PLOT DATE:
PROJECT LEADER: G. BAKOS DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS CHECKED BY:
TEMPORARY TRAFFIC SIGN SUMMARY SHEET SHEET 203 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ALPHABETICAL INDEX SHEET

RIGHT OF WAY PLANS

GRANTOR	DETAIL SHEET NO.	LAYOUT SHEET NO.	PARCEL NO.
#			
81-85 NORTH MAIN STREET, LLC	84	96	60
100 NORTH MAIN STREET, LLC	83	95	57
210 NORTH MAIN PROPERTIES, LLC - LESSOR; EL SOL MEXICAN GRILL, LLC - LESSEE	82	95	44
386 NORTH MAIN STREET, LLC	78	86, 87	10
A			
ABG CORPORATION	84	96	66
ALDRICH PUBLIC LIBRARY **(CONTRACT #1)**	**(22)**	**(29)**	71
AMERICAN LEGION-BARRE POST, NO. 10, INC.	80	93	21
AUBUCHON REALTY COMPANY, INC.	82	94,95	37
B			
BARRE, CITY OF - LESSEE; TELEPHONE OPERATING CO. OF VT., LLC - LESSOR	**(22)**	**(31,32)**	72
BARRE, CITY OF (SEWER & WATER)			81
BARRE, CITY OF	82	95	39
BARRE, CITY OF	82	95	40
BARRE HOUSING AUTHORITY **(CONTRACT #1)**	**(22)**	**(33)**	84
BASHARA PARAMOUNT THEATER, LLC	82	94	38
BELTRAMI, CHRISTOPHER A. & PATRICIA L.	82	95	43
BENOIT PROPERTIES, INC.	82	94	36
BOISVERT, ERNEST E. - LESSOR; BOISVERT, KARL W. d/b/a/ BOISVERT SHOE REPAIR - LESSEE	83	95	45
BOISVERT, KARL W. d/b/a BOISVERT SHOE REPAIR - LESSEE; BOISVERT, ERNEST E. - LESSOR	83	95	45
BOLSTER HOUSE, LLC	83	95	56
C			
CHAMPLAIN OIL CO., INC.	79	86	17
CHAMPLAIN OIL CO., INC. - LESSEE; MacDUFF, PAUL D. & BETTY LOU - LESSOR	79	86	16
CHAMPLAIN OIL CO., INC. - LESSEE; VERMONT PROPERTIES REALTY TRUST - LESSOR	79	86,93	18B
CHARTER ONE COMMUNICATIONS			82
CHASE, WILLIAM R. & CAROL B.	80	94	25
CHITTENDEN TRUST COMPANY,FSB - LESSEE; MURPHY REALTY CO., INC. - LESSOR	81	94	30
CITY OF BARRE	82	94,95	39
CITY OF BARRE	82	95	40
COMMUNITY NATIONAL BANK	80	93,94	22
COPPING, DAVID ROBERT & WILSON, GEORGE H. IV & CROWTHER, WILLIAM C III	83	95,96	55
CORRIGAN, EDWARD J. & MARY G.	83	95	52
CROWTHER, WILLIAM C III & WILSON, GEORGE H. IV & COPPING, DAVID ROBERT	83	95,96	55
D			
DENTE, JAMES E. JR. & COLETTE G.	82	95	42
DOWNTOWN BARRE DEVELOPMENT	77	86,93	4
DRURY, MARIE L. **(CONTRACT #1)**	**(22)**	**(32)**	73
DUNKIN' BRANDS INC. - LESSEE THE STRATEVEST GROUP N.A., TRUSTEE OF THE ELIZABETH CAMBELL - LESSOR	81	94	28
E			
EDGEWOOD DEVELOPMENT, LLC	83	95	48
ELSOL MEXICAN GRILL, LLC - LESSEE; 210 NORTH MAIN PROPERTIES LLC- LESSOR	82	95	44
ED'S BARRR-B-Q,LLC	81	94	34
F			
	(22)	**(33)**	76
UNIVERSALIST CHURCH, THE FIRST CHURCH IN BARRE **(CONTRACT #1)**	**(22)**	**(29,33)**	69

GRANTOR	DETAIL SHEET NO.	LAYOUT SHEET NO.	PARCEL NO.
G			
GABLE GROUP BARRE, INC.	77	87	1
GARR, DANIEL P. & JEAN A.	83	95	54
GENDRON, JOAN M.	78	86,87	12
GRANITE CITY HOLDING COMPANY., INC.	84	96	59
GRANITE HILLS CREDIT UNION	79	93	19
GREEN MOUNTAIN POWER CORPORATION			79
GYPSYCAT REAL ESTATE, LLC	81	94	35
H			
HERSCHEL, LUCILLE J. & MOORE, W. GLENN **(CONTRACT #1)**	**(21)**	**(24)**	7
I			
IB PROPERTIES HOLDINGS, LLC **(CONTRACT #1)**	**(21)**	**(29)**	62
J			
JACOBS, JEFFREY & LEWINSTEIN, STEPHEN R.	83	95	53
JOLU, LLC	81	94	31
K			
KEATON, WILLIAM H. & MARIE Z. **(CONTRACT #1)**	**(21)**	**(24)**	8
KEYBANK NATIONAL ASSOCIATION - LESSEE; MALONE 315 NORTH MAIN STREET PROPERTIES, LLC - LESSOR	80	93,94	24
L			
LACROIX, LORI A.	83	95	50
LACROSS, EDWARD H. & YVONNE M.	84	96	63
LEWINSTEIN, STEPHEN R. & JACOBS, JEFFREY	83	95	53
M			
MACDUFF, PAUL D. & BETTY LOU - LESSOR; CHAMPLAIN OIL CO., INC. - LESSEE	79	86	16
MAGNAN PROPERTIES, LLC	83	95	51
MILES BLOCK PROPERTIES, LLC	83	95	49
MALONE 315 NORTH MAIN STREET PROPERTIES, LLC - LESSOR; KEY BANK NATIONAL ASSOCIATION - LESSEE	80	93,94	24
MCCARTHY, MARK N. & MCCARTHY, TODD G.	84	96	64
MCCARTHY, TODD G. & MCCARTHY, MARK N.	84	96	64
METRO DEVELOPMENT LLC	80	93	20
MONTE, DANIEL T. **(CONTRACT #1)**	**(22)**	**(27)**	78
MOORE, W. GLENN & HERSCHEL, LUCILLE J. **(CONTRACT #1)**	**(21)**	**(24)**	7
MORSE BLOCK HOUSING ASSOCIATES	81	94	33
MURPHY REALTY CO., INC. - LESSOR; CHITTENDEN TRUST COMPANY, FSB - LESSEE	81	94	30
N			
N AND M INVESTMENTS, LLC **(CONTRACT #1)**	**(22)**	**(30)**	68
NELSON, ROBERT A. & LINDA S.	83	95	46
NORTHFIELD SAVINGS BANK	80	94	27
NORWAY BARRE REAL ESTATE, LLC **(CONTRACT #1)**	**(21)**	**(23,24)**	9
O			
ORMSBY, JOHN I. & AGNES W., AS CO-TRUSTEES OF THE ORMSBY FAMILY TRUST u/a	84	96	61

GRANTOR	DETAIL SHEET NO.	LAYOUT SHEET NO.	PARCEL NO.
P			
PATEL, PARESH T. & GAYATRIBEN P.; PATEL, KISHOR R. & PRATIBHA; PATEL, MANHARLAL & PATEL, DAXABEN	78	86	13
PCI PROPERTIES, LLC	80	94	26
PEARSON, KENNETH M. & BARBARA J. - TRUSTEES OF PEARSON LIVING TRUST **(CONTRACT #1)**	**(21)**	**(24,25)**	2
Q			
QUINLIN BLOCK ASSOCIATES	83	95	47
R			
RONSON, TODD S. & MARY E. **(CONTRACT #1)**	**(22)**	**(26)**	77
S			
SIMONDS, EDWARD C	78	86,87	11
STATE OF VERMONT	81	94	32
STATE OF VERMONT - LESSOR; WASHINGTON COUNTY RAILROAD COMPANY - LESSEE	85	87	75
STUDIO PLACE ARTS INCORPORATED	82	95	41
T			
TD BANK, N.A.	84	96	65
TELEPHONE OPERATING CO. OF VT., LLC			80
TELEPHONE OPERATING CO. OF VT., LLC - LESSOR; BARRE, CITY OF - LESSEE **(CONTRACT #1)**	**(22)**	**(31,32)**	72
THE STRATEVEST GROUP, N.A. - TRUSTEE OF THE ELIZABETH M. CAMPBELL TRUST FUND - LESSOR; DUNKIN BRANDS INC. - LESSEE	81	94	28
THOMPSON, ROBERT F. & BRENDA J. **(CONTRACT #1)**	**(21)**	**(24,25)**	3
THURSTON, MICHAEL D. & SANDRA F.	83	95,96	58
TIMBERLAKE ASSOCIATES	79	86	15
U			
UNITED STATES OF AMERICA POSTAL SERVICE **(CONTRACT #1)**	**(22)**	**(29)**	67
V			
VENMAR, MARIANNE S. - TRUSTEE OF THE MARIANNE S. VENMAR REVOCABLE FAMILY LIVING TRUST u/t/a JUNE 9, 2008 **(CONTRACT #1)**	**(21)**	**(24)**	5
VENMAR, RICHARD S. - TRUSTEE OF THE RICHARD S. VENMAR REVOCABLE FAMILY LIVING TRUST **(CONTRACT #1)**	**(22)**	**(24)**	83
VERMONT PROPERTIES REALTY TRUST - LESSOR; CHAMPLAIN OIL CO., INC. - LESSEE	79	86,93	18B
VERMONT PROPERTIES REALTY TRUST; MURPHY, CAROLE ANN - TRUSTEE	79	86,93	18A
W			
WALL STREET INVESTMENTS	80	94	23
WATKINS, THOMAS V. III & CROWLEY-WATKINS, JOANNE **(CONTRACT #1)**	**(21)**	**(24)**	**(6)**
WASHINGTON COUNTY RAILROAD - LESSEE; STATE OF VERMONT - LESSOR	85	87	75
WILSON, GEORGE H. IV & COPPING, DAVID ROBERT & CROWTHER, WILLIAM C. III	83	95,96	55
Z			
Z'S NORTHERN PROPERTIES	79	86	14

PLOT DATE 03/04/11

APPROVED: HARRY PETROVS DATE: 10-29-09
CHIEF, PLANS & TITLES

PROJECT NAME: **BARRE CITY**
PROJECT NUMBER: **FEGC F 026-1(34) C/2**

FILE NAME: **r85b010ALPHA sheet.xls** PLOT DATE:
PROJECT LEADER: **G. BAKOS** DRAWN BY: **MT**
DESIGNED BY: **D. PECK** CHECKED BY: **FM**
ALPH ABETICAL - ROW SHEET 76 OF 100 SHEET **204** OF **339**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT-OF-WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
1	GABLE GROUP BARRE, INC.	87	VT RTE 62 12+92.09 RT.	VT RTE 62 15+75.56 RT.	0.67	0				WD		BARRE CITY			TOTAL TAKE
2	PEARSON, KENNETH M. & BARBARA J. TRUSTEES OF PEARSON LIVING TRUST	(24,25)													PART OF CONTRACT I
3	THOMPSON, ROBERT F. & BRENDA J.	(24,25)													PART OF CONTRACT I
4A	DOWNTOWN BARRE DEVELOPMENT	86,93	116+74.50 LT.	122+54.42 LT.	0.11 A					WD	8/26/2010	BARRE CITY	260	892-895	
			116+74.50 LT.	122+54.42 LT.			INSTALL	(T)							CURB
			117+10 LT.±				REMOVE	(T)							STREET LIGHT
			117+16.20 LT.				CULVERT	(P)							
			117+86.10 LT.				CULVERT	(P)							
			119+25.00 LT.				CULVERT	(P)							
			120+26.00 LT.				DRIVE	(T)							36' PAVED
			120+74.56 LT.				DI	(P)							
			120+74.56 LT.				DI & CULVERT	(P)							
			120+74.56 LT.	120+93.04 LT.			REMOVE	(T)							CULVERT & DI
			121+70.00 LT.				CULVERT	(P)							
			122+30.72 LT.				CULVERT	(P)							
			116+74.50 LT.	122+64.43 LT.			INSTALL	(T)							RESTRIPE PARKING LOT
			121+50.54 LT.				REMOVE & RESET	(T)							LIGHT POLE & BASE
			122+40.43 LT.				REMOVE	(T)							LIGHT POLE & BASE
			116+74.50 LT.	122+54.42 LT.			D&C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
4B	DOWNTOWN BARRE DEVELOPMENT	93	122+66.12 LT.	S. SEMINARY 41+32.00 LT.	115 SF										
			S. SEM. ST. 41+46.00 LT				DRIVE	(T)							28' PAVED
			122+54.42 LT.	S. SEMINARY 41+32.00 LT.			INSTALL	(T)							CURB
5	VENMAR, MARIANNE S.	(24)													PART OF CONTRACT I

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
1	76,83,95	PARCEL NO. 53 JACOBS & LEWINSTEIN. CHANGE SPELLING OF JEFFERY TO JEFFREY. PER C.O. 9573 MADE BY: MR APPROVED BY: HP	11/5/09
2	77	PARCEL NO. 4 DOWNTOWN BARRE DEVELOPMENT. CHANGE REMOVE (T) FOR LIGHT POLE & BASE AT STA. 122+40.43 LT. TO REMOVE & RESET (T) PER C.O. 9572 MADE BY: MR APPROVED BY: HP	11/5/09
3	76	PARCEL NO. 76 FIREHOUSE AT BARRE, LLC. REMOVE PROPERTY OWNER FROM ALPHABETICAL INDEX SHEET. PER C.O. 9584 MADE BY: MR APPROVED BY: HP	12/15/09
4	76	PARCEL NO. 84 BARRE HOUSING AUTHORITY. ADD PROPERTY OWNER TO ALPHABETICAL INDEX SHEET. PER C.O. 9585 MADE BY: MR APPROVED BY: HP	12/15/09
5	82	PARCEL NO. 39 AUDET. ADD WALK (T) STA. 129+44.98 LT – 130+17.26 LT TO DETAIL SHEET. PER C.O. 9587 MADE BY: MT APPROVED BY: HP	12/16/09
6	77	PARCEL NO. 4 DOWNTOWN BARRE DEVELOPMENT. ADD D&C AT STA. 116+74.50 LT. – 122+54.42 LT. FOR SEWER, WATER & DRAINAGE IF APPLICABLE TO DETAIL SHEET. PER C.O. 9586 MADE BY: MT APPROVED BY: HP	12/16/09
7	82,95	PARCEL NO. 41 CENTRAL VERMONT ARTS CENTER LIMITED PARTNERSHIP. CHANGE OWNER NAME TO STUDIO ARTS INCORPORATED. PER C.O. 9590 MADE BY: MT APPROVED BY: HP	12/28/09
8	80	PARCEL NO. 20 R. YORK, INC. TOTAL ACQUISITION AREA HAS BEEN CORRECTED FROM 370SF TO 466SF. PER C.O. 9592 MADE BY: MT APPROVED BY: HP	1/4/10
9	11, 34, 79, 93	PARCEL NO. 19 GRANITE HILLS CREDIT UNION. ADDED AREA TO DRIVE AT 116+75.00 RT. (2,200 SF±); INCREASED TWO SLOPE AREAS 73 SF TO 620 SF AND 73 SF TO 380 SF; ADDED TWO INSTALL (T) CURBS 129'± AND 54'±; ADDED REMOVE & RESET (T) FOR SIGN, FLAGPOLE, LIGHTS AND OTHER APPURTENANCES IN SLOPE AREAS; ADDED LANDSCAPE (T) FOR SLOPE AREAS WITH AN AGREEMENT BETWEEN VTRANS AND OWNER. PER C.O. 9593 MADE BY: MT APPROVED BY: HP	1/4/10
10	78,86,87	PARCEL NO. 10 CAMPOS REALTY, LLC. NEW OWNER IS 386 NORTH MAIN STREET, LLC. PER C.O. 9607 MADE BY: MT APPROVED BY: HP	3/15/10
11	83, 95	PARCEL NO. 45 BOISVERT, ERNEST E. & BETTY M. REMOVE NAME OF BETTY M. BOISVERT AS SHE IS DECEASES AS OF JUNE 1, 2006. ALSO CORRECTED LAST NAME OF KARL FROM ERNEST TO BOISVERT ON LAYOUT 9. PER C.O. 9608 MADE BY: MT APPROVED BY: HP	3/15/10
12	76,80,93	PARCEL NO. 20 R. YORK, INC. - CHANGED OWNER TO METRO DEVELOPMENT LLC. PER C.O. 9616 MADE BY: MT APPROVED BY: HP	5/27/10
13	76,82 94,95	PARCEL NO. 39 AUDET. CHANGE OWNER TO THE CITY OF BARRE. PER C.O. 9619. MADE BY: MR APPROVED BY: HP	6/21/10
14	76,82,95	PARCEL NO. 40 LEWINSTEIN. CHANGE OWNER TO THE CITY OF BARRE. PER C.O. 9620. MADE BY: MR APPROVED BY: HP	6/21/10
15	77,93	PARCEL NO. 4 DOWNTOWN BARRE DEVELOPMENT. CHANGE REMOVE & RESET FOR LIGHT POLE AT STA. 122+40.43 LT. TO REMOVE (T). ADD REMOVE (T) FOR STREET LIGHT LOCATED AT STATION 117+10 LT.± PER C.O. 9628. MADE BY: MR APPROVED BY: HP	8/4/10
		ELECTRONIC FILES TO VHB 3-7-11	
		PLOT DATE	3/4/11

PLAN LEGEND

EXISTING RIGHT-OF-WAY		TOE OF SLOPE	
TAKING WITH ACCESS		TOP OF CUT	
TAKING WITHOUT ACCESS	SR (P)	SLOPE RIGHT	
CLEAR ZONE	CONST. (T)	CONSTRUCTION RIGHT	
PROPERTY LINE	-PDF PDF-	PROJECT DEMARCATION FENCE	

D&C	- DISCONNECT & CONNECT
EC	- EROSION CONTROL
(P)	- PERMANENT
(T)	- TEMPORARY
DR.	- DRAINAGE RIGHT
DT.	- DITCHING RIGHT
CH.	- CHANNEL RIGHT
DRIVE	- DRIVE RIGHT
CUL.	- CULVERT RIGHT
C&T	- CLEARING & TRIMMING RIGHT
SR	- SLOPE RIGHT
UE	- UTILITY EASEMENT

APPROVED BY: HARRY PETROVS
CHIEF, PLANS & TITLES

DATE: 10-29-09

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) CONTRACT 2

FILE NAME: detailsheets .dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 77 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: MT
CHECKED BY: FM
SHEET 205 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT-OF-WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
6	WATKINS, THOMAS V. III &	(24)													PART OF CONTRACT I
	CROWLEY-WATKINS, JOANNE														
7	MOORE, W. GLENN & HERSCHEL, LUCILLE J.	(24)													PART OF CONTRACT I
8	KEATON, WILLIAM H. & MARIE Z.	(24)													PART OF CONTRACT I
9	NORWAY BARRE REAL ESTATE, LLC	(23,24)													PART OF CONTRACT I
10	386 NORTH MAIN STREET, LLC	86,87	111+79.00 RT.				DRIVE			GTR	10/27/2010	BARRE CITY	261	927-928	18' PAVED
			111+93.56 RT.				WALK	(T)							4' CONCRETE
			112+41.13 RT.				WALK	(T)							4' CONCRETE
			112+55.00 RT.				DRIVE	(T)							13' PAVED IN COMMON / PARCEL 12 & 11
			110+84.77 RT.	112+48.66 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
11	SIMONDS, EDWARD C.	86,87	112+48.66 RT.	113+27.97 RT.			D & C	(T)		GTR	9/22/2010	BARRE CITY	261	342-344	SEWER, WATER & DRAINAGE IF APPLICABLE
			113+28.24 RT.	113+29.97 RT.			SLOPE	(T)	2 SF						
			113+00.00 RT.				WALK	(T)							3' CONCRETE
			112+60.15 RT.	112+83.43 RT.			SLOPE	(T)	58 SF						
			112+55.00 RT.				DRIVE	(T)							13' PAVED IN COMMON / PARCEL 12 & 10
12	GENDRON, JOAN M.	86,87	112+55.00 RT.				DRIVE	(T)		GTR	8/31/2010	BARRE CITY	260	1003-1004	13' PAVED IN COMMON / PARCEL 11 & 10
13	PATEL, PARESH T. & GAYATRIBEN P.;	86	114+61.15 RT.	115+69.02 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
	PATEL, KISHOR R. & PRATIBHA;		114+93.00 RT.				DRIVE	(T)							26' PAVED
	PATEL, MANHARLAL & PATEL, DAXABEN		114+61.15 RT.	114+79.01 RT.			SR	(T)	19 SF						
			115+11.80 RT.	115+24.33 RT.			SR	(T)	3 SF						

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
		PLOT DATE	3/4/11

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P / L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (-PDF-)

D&C	- DISCONNECT & CONNECT
EC	- EROSION CONTROL
(P)	- PERMANENT
(T)	- TEMPORARY
DR.	- DRAINAGE RIGHT
DT.	- DITCHING RIGHT
CH.	- CHANNEL RIGHT
DRIVE	- DRIVE RIGHT
CUL.	- CULVERT RIGHT
C&T	- CLEARING & TRIMMING RIGHT
SR	- SLOPE RIGHT
UE	- UTILITY EASEMENT

APPROVED BY: NAME
CHIEF, PLANS & TITLES

DATE: DATE

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) CONTRACT 2

FILE NAME: detailsheets .dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 78 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: MT
CHECKED BY: FM
SHEET 206 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT-OF-WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
14	Z'S NORTHERN PROPERTIES	86	MAPLE AVE. 21+07.56 RT.	N. MAIN ST. 115+36.67 LT.			D & C	(T)		GTR	10/28/2010	BARRE CITY	261	944-946	SEWER, WATER & DRAINAGE IF APPLICABLE
			114+50.62 LT.	114+57.09 LT.			SLOPE	(T)	7 SF						
			114+50.62 LT.	114+57.09 LT.			INSTALL & MAINT.	(P)							BOLLARDS & CHAIN
15	TIMBERLAKE ASSOCIATES	86	115+60.00 LT.				DRIVE	(T)		QC	12/23/2010	BARRE CITY	262	663-664	27' PAVED
			116+09.00 LT.				DRIVE	(T)							31' PAVED
			115+36.88 LT.	COTTAGE ST. 31+16.90 LT.			D & C								SEWER, WATER & DRAINAGE IF APPLICABLE
			116+27.89 LT.				INSTALL & MAINT.	(P)							STREET LIGHT
			116+35.74 LT.	COTTAGE ST. 20+47.50 LT.			INSTALL	(T)							CURB
16	MacDUFF, PAUL D. & BETTY LOU - LESSOR	86	115+69.02 RT.	116+76.46 RT.			D & C	(T)		GTR	7/7/2010	BARRE CITY	260	167-170	SEWER, WATER & DRAINAGE IF APPLICABLE
	CHAMPLAIN OIL CO., INC. - LESSEE		115+69.02 RT.	116+05.03 RT.			SLOPE	(T)	147 SF						
			116+26.00 RT.				DRIVE	(T)							41' PAVED IN COMMON / PARCEL 17
17	CHAMPLAIN OIL CO., INC.	86	116+26.00 RT.				DRIVE	(T)		GTR	7/6/2010	BARRE CITY	260	137-138	41' PAVED IN COMMON / PARCEL 16
18A	VERMONT PROPERTIES REALTY TRUST	93	117+70.65 RT.	118+61.40 RT.	189 SF±					WD					
	MURPHY, CAROLE ANN - TRUSTEE		117+70.65 RT.	118+42.66 RT.			SLOPE	(T)	194 SF						
			117+70.65 RT.	118+61.40 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			118+48.00 RT.				DRIVE	(T)							14' PAVED
			117+70.65 RT.	118+61.40 RT.			LANDSCAPING	(T)							
18B	VERMONT PROPERTIES REALTY TRUST -	86,93	117+46.00 RT.				DRIVE	(T)							43' PAVED
	LESSOR, CHAMPLAIN OIL CO., INC. - LESSEE		116+76.73 RT.	117+70.65 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			116+76.73 RT.	117+00.00 RT.			SLOPE	(T)	20 SF						
			117+62.56 RT.	117+65.46 RT.			REMOVE	(T)							CULVERT
			117+62.56 RT.	117+65.46 RT.			CULVERT	(P)							
19	GRANITE HILLS CREDIT UNION	93	118+61.40 RT.	120+32.37 RT.	645 SF±					WD	9/22/2010	BARRE CITY	261	301-303	
			118+90.00 RT.	119+58.75 RT.			SLOPE	(T)	620 SF						
			119+63.75 RT.				WALK	(T)							CONCRETE, 10'
			119+68.75 RT.	120+13.64 RT.			SLOPE	(T)	380 SF						
			118+61.40 RT.	120+32.37 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			118+75.00 RT.				DRIVE	(T)							28' PAVED (2,200 SF±)
			120+22.00 RT.				DRIVE	(T)							19' PAVED
			118+90.00 RT.	119+58.75 RT.			INSTALL	(T)							CURB (129'±)
			119+68.75 RT.	120+13.64 RT.			INSTALL	(T)							CURB (54'±)
			118+90.00 RT.	120+13.64 RT.			REMOVE & RESET	(T)							SIGN, FLAGPOLE, LIGHTS AND OTHER APPURTENANCES IN SLOPE AREAS.
			118+90.00 RT.	120+13.64 RT.			LANDSCAPE	(T)							PER OWNER & VTRANS AGREEMENT

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
		PLOT DATE	3/4/11

PLAN LEGEND

EXISTING RIGHT-OF-WAY	TOE OF SLOPE
TAKING WITH ACCESS	TOP OF CUT
TAKING WITHOUT ACCESS	SLOPE RIGHT
CLEAR ZONE	CONSTRUCTION RIGHT
PROPERTY LINE	PROJECT DEMARCATION FENCE

D&C	- DISCONNECT & CONNECT
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APPROVED BY: NAME

CHIEF, PLANS & TITLES

DATE: DATE

PROJECT NAME: BARRE CITY

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FILE NAME: detailsheets .dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 79 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: MT
CHECKED BY: FM
SHEET 207 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT-OF-WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

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20	METRO DEVELOPMENT LLC	93	120+32.37 RT.	121+81.03 RT.	466 SF					WD	11/2/2010	BARRE CITY	261	987	
			120+64.14 RT.	121+29.91 RT.			INSTALL	(T)							ISLAND & CURB
			121+05.36 RT.				REMOVE & RESET	(T)							SIGN - PRIVATE
			120+32.37 RT.	121+81.03 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			121+78.34 RT.				REMOVE	(T)							WALL (1.5' WIDTH)
			120+50.00 RT.				DRIVE	(T)							33' PAVED
			121+46.00 RT.				DRIVE	(T)							34' PAVED
21	AMERICAN LEGION-BARRE POST, NO. 10, INC.	93	121+81.03 RT.	122+68.21 RT.	250 SF					WD		BARRE CITY	260	206-208	
			121+81.03 RT.	122+68.23 RT.			REMOVE & RESET	(T)							IRON FENCE/GATE & CHAIN LINK FENCE
			122+11.75 RT.				WALK	(T)							5' CONCRETE
			122+19.00 RT.				REMOVE	(T)							TREE STUMP
			121+81.03 RT.	122+68.21 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			121+80.99 RT.				REMOVE & RESET	(T)							GRANITE POST
			122+76.90 RT.				DRIVE	(T)							13' PAVED OVER PARCEL 22
22	COMMUNITY NATIONAL BANK	93,94	122+68.21 RT.	124+18.16 RT.			D & C	(T)		GTR	40207	BARRE CITY	257	484-486	SEWER, WATER & DRAINAGE IF APPLICABLE
			122+76.90 RT.				DRIVE	(T)							13' PAVED IN COMMON PARCEL #21
			123+61.90 RT.				DRIVE	(T)							12' PAVED
			122+86.56 RT.	124+18.61 RT.			WALK	(T)							SIDEWALK
			123+63.58 RT.	124+18.61 RT.			SLOPE	(T)	94 SF±						
			123+73.80 RT.				WALK	(T)							5' CONCRETE
			124+14.36 RT.				WALK	(T)							5' CONCRETE
23	WALL STREET INVESTMENTS	94	124+77.51 RT.	124+87.02 RT.	19 SF+					WD	7/12/2010	BARRE CITY	260	200-201	
			124+18.61 RT.	124+83.34 RT.			SLOPE	(T)	77 SF+						
			124+18.61 RT.	124+87.03 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			124+25.90 RT.				REMOVE	(T)							OLD CONCRETE FOUNDATION
			124+18.61 RT.	124+83.34 RT.			INSTALL & MAINT.	(P)							BOLLARDS & CHAIN,AND BRICKWORK
24	MALONE 315 NORTH MAIN STREET	93,94	123+16.86 LT.	123+99.11 LT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
	PROPERTIES, LLC - LESSOR		123+16.86 LT.	123+99.11 LT.			WALK	(T)							
	KEYBANK NATIONAL ASSOCIATIONS- LESSEE														
25	CHASE, WILLIAM R. & CAROL B.	94	123+99.11 LT.	124+54.09 LT.			D & C	(T)		GTR	7/2/2010	BARRE CITY	260	96-97	SEWER, WATER & DRAINAGE IF APPLICABLE
			123+99.11 LT.	124+54.09 LT.			WALK	(T)							SIDEWALK INCLUDES 3 ENTRANCE STEPS
26	PCI PROPERTIES, LLC	94	124+54.09 LT.	125+06.52 LT.			D & C	(T)		GTR	40186	BARRE CITY	257	164-165	SEWER, WATER & DRAINAGE IF APPLICABLE
			124+54.09 LT.	125+06.52 LT.			WALK	(T)							SIDEWALK INCLUDES 1 ENTRANCE STEP
27	NORTHFIELD SAVINGS BANK	94	125+06.52 LT.	125+59.74 LT.			D & C	(T)		GTR	40164	BARRE CITY	257	767-768	SEWER, WATER & DRAINAGE IF APPLICABLE
			125+06.52 LT.	125+59.74 LT.			WALK	(T)							SIDEWALK

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PLAN LEGEND

EXISTING RIGHT-OF-WAY	TOE OF SLOPE
TAKING WITH ACCESS	TOP OF CUT
TAKING WITHOUT ACCESS	SLOPE RIGHT
CLEAR ZONE (CZ)	CONSTRUCTION RIGHT (CONST. (T))
PROPERTY LINE (P/L)	PROJECT DEMARCATION FENCE (PDF)

D&C	- DISCONNECT & CONNECT
EC	- EROSION CONTROL
(P)	- PERMANENT
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DR.	- DRAINAGE RIGHT
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ROW SHEET 80 OF 100

PLOT DATE: 04-MAR-2011
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28	THE STRATEVEST GROUP, N.A. - TRUSTEE	94	125+59.75 LT.	127+01.72 LT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
	OF THE ELIZABETH M. CAMPBELL TRUST		125+91.00 LT.				DRIVE	(T)							20' PAVED
	FUND - LESSOR		126+49.00 LT.				DRIVE	(T)							20' PAVED
	DUNKIN BRANDS INC. - LESSEE		126+66.00 LT.	127+01.72 LT.			INSTALL & MAINT.	(P)							BOLLARDS & CHAIN
			125+59.75 LT.	127+01.72 LT.			WALK	(T)							SIDEWALK
29	NOT USED														
30	MURPHY REALTY CO., INC. - LESSOR	94	125+28.25 RT	126+16.71 RT			D&C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
	CHITTENDEN TRUST COMPANY, FSB - LESSEE		125+38.10 RT				WALK	(T)							6' CONCRETE
31	JOLU, LLC	94	126+16.71 RT	126+98.49 RT			D&C	(T)		GTR	8/19/2010	BARRE CITY	260	515-516	SEWER, WATER & DRAINAGE IF APPLICABLE
			126+55.31 RT				WALK	(T)							6' PAVED
			126+78.44 RT				WALK	(T)							4' PAVED
			126+94.76 RT				REMOVE	(T)							TREE
			126+16.71 RT	126+98.49 RT			WALK	(T)							SIDEWALK
32	STATE OF VERMONT	94	127+35.19 LT	128+61.74 LT			D&C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			128+04.91 LT				WALK	(T)							6' CONCRETE
			128+35.94 LT	128+61.74 LT			WALK	(T)							SIDEWALK
33	MORSE BLOCK HOUSING ASSOCIATES	94	127+20.46 RT	127+99.30 RT			D&C	(T)		WDOE	7/2/2010	BARRE CITY	260	98-100	SEWER, WATER & DRAINAGE IF APPLICABLE
			127+21.65 RT				INSTALL & MAINT.	(P)							SIGN
			127+34.65 RT				REMOVE & RESET	(T)							HANDRAILS
			127+47.76 RT				REMOVE & RESET	(T)							HANDRAIL & STEPS
			127+61.57 RT				REMOVE & RESET	(T)							HANDRAIL
			127+83.26 RT				REMOVE & RESET	(T)							HANDRAIL
			127+20.46 RT	127+99.30 RT			WALK	(T)							SIDEWALK
34	ED'S BARRR-B-Q,LLC	94	127+99.30 RT	128+27.94 RT			D&C	(T)		GTR	40177	BARRE CITY	257	40-41	SEWER, WATER & DRAINAGE IF APPLICABLE
			127+99.30 RT	128+27.94 RT			WALK	(T)							SIDEWALK
35	GYPSYCAT REAL ESTATE, LLC	94	128+27.94 RT	128+50.84 RT			D&C	(T)		GTR	40207	BARRE CITY	257	482-483	SEWER, WATER & DRAINAGE IF APPLICABLE
			128+27.94 RT	128+50.84 RT			WALK	(T)							SIDEWALK

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
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PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P/L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (-PDF-PDF-)

D&C	- DISCONNECT & CONNECT
EC	- EROSION CONTROL
(P)	- PERMANENT
(T)	- TEMPORARY
DR.	- DRAINAGE RIGHT
DT.	- DITCHING RIGHT
CH.	- CHANNEL RIGHT
DRIVE	- DRIVE RIGHT
CUL.	- CULVERT RIGHT
C&T	- CLEARING & TRIMMING RIGHT
SR	- SLOPE RIGHT
UE	- UTILITY EASEMENT

APPROVED BY: NAME
CHIEF, PLANS & TITLES

DATE: DATE

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) CONTRACT 2

FILE NAME: detailsheets .dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 81 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: MT
CHECKED BY: FM
SHEET 209 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT-OF-WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
36	BENOIT PROPERTIES, INC.	94	128+50.84 RT.	129+20.05 RT.			D & C	(T)		GTR	40283	BARRE CITY	258	644-645	SEWER, WATER & DRAINAGE IF APPLICABLE
			128+50.84 RT.	129+20.05 RT.			WALK	(T)							SIDEWALK
37	AUBUCHON REALTY COMPANY, INC.	94,95	129+20.05 RT	130+03.66 RT			D & C	(T)		GTR	40164	BARRE CITY	258	765-766	SEWER, WATER & DRAINAGE IF APPLICABLE
			129+20.05 RT	130+03.66 RT			WALK	(T)							SIDEWALK
38	BASHARA PARAMOUNT THEATER, LLC	94	128+91.59 LT	129+44.98 LT			D & C	(T)		GTR	40228	BARRE CITY	257	793-794	SEWER, WATER & DRAINAGE IF APPLICABLE
			128+91.59 LT	129+44.98 LT			WALK	(T)							SIDEWALK
39	CITY OF BARRE	94,95	129+44.98 LT	130+17.26 LT			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
	(FORMERLY AUDET)		129+44.98 LT	130+17.26 LT			WALK	(T)							SIDEWALK
			129+51.00 LT				DRIVE	(T)							12' GRAVEL
			129+56.55 LT	130+04.16 LT			INSTALL & MAINTAIN	(P)							BOLLARDS,CHAIN & CURB
			129+56.55 LT	130+04.16 LT			SLOPE	(T)	477 SF±						
40	CITY OF BARRE	95	130+17.26 LT.	130+61.90 LT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
	(FORMERLY LEWINSTEIN)		130+17.26 LT.	130+61.90 LT.			WALK	(T)							SIDEWALK
41	STUDIO PLACE ARTS INCORPORATED	95	130+61.90 LT.	131+09.15 LT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			130+61.90 LT.	131+09.15 LT.			WALK	(T)							SIDEWALK
42	DENTE, JAMES E. JR & COLETTE G.	95	131+09.15 LT.	131+97.07 LT.			D & C	(T)		GTR	40276	BARRE CITY	258	520-521	SEWER, WATER & DRAINAGE IF APPLICABLE
			131+09.15 LT.	131+97.07 LT.			WALK	(T)							SIDEWALK
			131+14.00 LT.				DRIVE	(T)							10' PAVED
43	BELTRAMI, CHRISTOPHER A. & PATRICIA L.	95	131+97.07 LT.	132+39.85 LT.			D & C	(T)		GTR	40295	BARRE CITY	258	892-893	SEWER, WATER & DRAINAGE IF APPLICABLE
			131+97.07 LT.	132+39.85 LT.			WALK	(T)							SIDEWALK
44	210 NORTH MAIN PROPERTIES, LLC - LESSOR	95	130+77.55 RT.	131+09.05 RT.			D & C	(T)		GTR	9/9/2010	BARRE CITY	261	196-197	SEWER, WATER & DRAINAGE IF APPLICABLE
	ELSOL MEXICAN GRILL, LLC - LESSEE		130+77.55 RT.	131+09.05 RT.			WALK	(T)							SIDEWALK
			130+80.53 RT.	131+06.55 RT.			REMOVE & RESET	(T)							DECK

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APPROVED BY: HARRY PETROVS
CHIEF, PLANS & TITLES

DATE: 10-29-09

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) CONTRACT 2

FILE NAME: detailsheets .dgn
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 82 OF 100

PLOT DATE: 04-MAR-2011
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SHEET 210 OF 339

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT-OF-WAY DETAIL SHEET

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45	BOISVERT, ERNEST E. - LESSOR	95	131+09.05 RT.	131+44.87 RT.			D & C	(T)		GTR	40225	BARRE CITY	257	682-684	SEWER, WATER & DRAINAGE IF APPLICABLE
	BOISVERT, KARL W. d/b/a BOISVERT SHOE REPAIR - LESSEE		131+09.05 RT.	131+44.87 RT.			WALK	(T)							SIDEWALK
46	NELSON, ROBERT A. & LINDA S.	95	131+44.87 RT.	132+61.83 RT.			D & C	(T)		GTR	7/26/2010	BARRE CITY	260	388-390	SEWER, WATER & DRAINAGE IF APPLICABLE
			131+44.87 RT.	132+61.83 RT.			WALK	(T)							SIDEWALK
47	QUINLIN BLOCK ASSOCIATES	95	132+61.83 RT.	132+97.15 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			132+61.83 RT.	132+97.15 RT.			WALK	(T)							SIDEWALK
			132+69.00 RT.				REMOVE & RESET	(T)							BRICK PAVERS
48	EDGEWOOD DEVELOPMENT, LLC	95	132+97.15 RT.	133+12.65 RT.			D & C	(T)		GTR	40252	BARRE CITY	257	1076-1077	SEWER, WATER & DRAINAGE IF APPLICABLE
			132+97.15 RT.	133+12.65 RT.			WALK	(T)							SIDEWALK
49	MILES BLOCK PROPERTIES, LLC	95	133+12.65 RT.	134+04.54 RT.			D & C	(T)		GTR	40343	BARRE CITY	259	719-720	SEWER, WATER & DRAINAGE IF APPLICABLE
			133+12.65 RT.	134+04.54 RT.			WALK	(T)							SIDEWALK
50	LACROIX, LORI A.	95	134+04.54 RT.	134+59.34 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			134+04.54 RT.	134+59.34 RT.			WALK	(T)							SIDEWALK
51	MAGNAN PROPERTIES, LLC	95	134+59.34 RT.	134+98.34 RT.			D & C	(T)		GTR	40296	BARRE CITY	258	924-925	SEWER, WATER & DRAINAGE IF APPLICABLE
			134+59.34 RT.	134+98.34 RT.			WALK	(T)							SIDEWALK
52	CORRIGAN, EDWARD J. & MARY G.	95	132+59.05 LT.	133+12.83 LT.			D & C	(T)		GTR	40289	BARRE CITY	258	824-825	SEWER, WATER & DRAINAGE IF APPLICABLE
			132+59.05 LT.	133+12.83 LT.			WALK	(T)							SIDEWALK
53	JACOBS, JEFFREY & . LEWINSTEIN, STEPHEN R.	95	133+12.83 LT.	134+05.56 LT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			133+12.83 LT.	134+05.56 LT.			WALK	(T)							SIDEWALK
54	GARR, DANIEL P. & JEAN A.	95	134+29.33 LT.	134+88.63 LT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			134+29.33 LT.	134+88.63 LT.			WALK	(T)							SIDEWALK
55	WILSON, GEORGE H. IV & COPPING, DAVID ROBERT & CROWTHER, WILLIAM C. III	95,96	135+16.71 LT.	136+22.78 LT.			D & C	(T)		GTR	40217	BARRE CITY	257	562-564	SEWER, WATER & DRAINAGE IF APPLICABLE
			135+16.71 LT.	136+22.78 LT.			WALK	(T)							SIDEWALK
56	BOLSTER HOUSE, LLC	95	134+98.34 RT.	135+59.52 RT.			D & C	(T)		GTR	8/6/2010	BARRE CITY	260	618-619	SEWER, WATER & DRAINAGE IF APPLICABLE
			134+98.34 RT.	135+59.52 RT.			WALK	(T)							SIDEWALK
57	100 NORTH MAIN STREET, LLC	95	135+59.52 RT.	135+84.44 RT.			D & C	(T)		GTR	40246	BARRE CITY	257	998-999	SEWER, WATER & DRAINAGE IF APPLICABLE
			135+59.52 RT.	135+84.44 RT.			WALK	(T)							SIDEWALK
58	THURSTON, MICHAEL D. & SANDRA F.	95,96	135+84.44 RT.	136+10.28 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			135+84.44 RT.	136+10.28 RT.			WALK	(T)							SIDEWALK

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EXISTING RIGHT-OF-WAY	TOE OF SLOPE
TAKING WITH ACCESS	TOP OF CUT
TAKING WITHOUT ACCESS	SLOPE RIGHT
CLEAR ZONE	CONSTRUCTION RIGHT
PROPERTY LINE	PROJECT DEMARCATION FENCE

D&C	- DISCONNECT & CONNECT
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PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 83 OF 100

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59	GRANITE CITY HOLDING COMPANY, INC.	96	136+18.58 RT.	136+93.67 RT.			D & C	(T)		PTR	40295	BARRE CITY	258	586-587	SEWER, WATER & DRAINAGE IF APPLICABLE
			136+18.58 RT.	136+93.67 RT.			WALK	(T)							SIDEWALK
			136+50.00 RT.	136+80.30 RT.			INSTALL & MAINT.	(P)							UNDERGROUND POWER & PULL BOX
60	61 - 85 NORTH MAIN STREET, LLC	96	136+22.76 LT.	136+67.41 LT.			D & C	(T)		WD	40211	BARRE CITY	257	512-513	SEWER, WATER & DRAINAGE IF APPLICABLE
			136+22.76 LT.	136+67.41 LT.			WALK	(T)							SIDEWALK
			136+53.20 LT.	136+67.00 LT.			INSTALL & MAINT.	(P)							UNDERGROUND POWER & PULL BOX
			136+71.00 LT.				DRIVE	(T)							15' PAVED, SHARED WITH PARCEL 61
61	ORMSBY, JOHN L & AGNES W., as	96	136+67.41 LT.	137+23.02 LT.			D & C	(T)		GTR	40289	BARRE CITY	258	622-623	SEWER, WATER & DRAINAGE IF APPLICABLE
	CO-TRUSTEES OF THE ORMSBY FAMILY		136+67.41 LT.	137+23.02 LT.			WALK	(T)							SIDEWALK
	TRUST u/a		136+71.00 LT.				DRIVE	(T)							15' PAVED, SHARED WITH PARCEL 60
62	IB PROPERTY HOLDINGS, LLC	(21, 29)													PART OF CONTRACT I
63	LACROSS, EDWARD H. & YVONNE M.	96	136+93.67 RT.	137+63.91 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
			136+93.67 RT.	137+63.91 RT.			WALK	(T)							SIDEWALK
			137+37.04 RT.	137+63.91 RT.			INSTALL & MAINT.	(P)							UNDERGROUND UTILITIES
64	McCARTHY, MARK N. &	96	137+63.91 RT.	138+28.74 RT.			D & C	(T)							SEWER, WATER & DRAINAGE IF APPLICABLE
	McCARTHY, TODD G.		137+63.91 RT.	138+28.74 RT.			WALK	(T)		WDOE	7/28/2010	BARRE CITY	260	406-	SIDEWALK
			137+63.91 RT.	138+28.74 RT.			INSTALL & MAINT.	(P)						407	UNDERGROUND UTILITIES
65	TD BANK, NA	96	S. MAIN ST. 600+29.53 RT.	S. MAIN ST. 601+01.96 RT.			WALK	(T)		GTR	8/3/2010	BARRE CITY	260	568-	SIDEWALK
			S. MAIN ST. 600+54.70 RT.±				INSTALL	(T)						569	WALL, REPAIR SIDEWALK &
															APPURTENANCES, SEWER, WATER,
															POWER & OIL FILLER
66	ABG CORPORATION	96	S. MAIN ST. 601+01.96 RT.	S. MAIN ST. 601+64.53 RT.			WALK	(T)							SIDEWALK
67	UNITED STATES OF AMERICA POSTAL SERVICE	(22, 29)													PART OF CONTRACT I
68	N AND M INVESTMENTS, LLC	(22, 30)													PART OF CONTRACT I
69	UNIVERSALIST CHURCH, THE FIRST CHURCH	(22,29,33)													PART OF CONTRACT I
	IN BARRE														
70	DELETED														
71	ALDRICH PUBLIC LIBRARY	(22, 29)													PART OF CONTRACT I

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PLAN LEGEND

EXISTING RIGHT-OF-WAY		TOE OF SLOPE	
TAKING WITH ACCESS		TOP OF CUT	
TAKING WITHOUT ACCESS	SR (P)	SLOPE RIGHT	
CLEAR ZONE	CZ	CONSTRUCTION RIGHT	CONST. (T)
PROPERTY LINE	P L P L	PROJECT DEMARCATION FENCE	-PDF- -PDF-

D&C	- DISCONNECT & CONNECT
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72	TELEPHONE OPERATING CO. OF VT, LLC - LESSOR CITY OF BARRE - LESSEE	(22, 31,32)													PART OF CONTRACT I
73	DRURY, MARIE L.	(22, 32)													PART OF CONTRACT I
74	DELETED														FORMERLY BARRE CITY/HIGUERA
75	STATE OF VERMONT - LESSOR WASHINGTON CONTY RAILROAD - LESSEE	87	VT RTE 62 12+57.36 RT. VT RTE 62 12+56.06 RT. VT RTE 62 12+54.66 RT. VT RTE 62 12+81.64 RT.	VT RTE 62 12+92.53 RT. VT RTE 62 12+59.12 RT. VT RTE 62 12+76.99 LT. VT RTE 62 12+93.86 RT.			CUL. & DI INSTALL CROSSING EASEMENT INSTALL	(P) (T) (P) (T)							 PDF & EROSION CONTROL RR STA. VT. RTE. 62 12+71.27 ℄ = RR STA. 224+32.81 ℄ PDF & EROSION CONTROL
76	FIREHOUSE AT BARRE, LLC	(22, 33)													PART OF CONTRACT I
77	RONSON, TODD S.& MARY E.	(22, 26)													PART OF CONTRACT I
78	MONTE, DANIEL T.	(22, 27)													PART OF CONTRACT I
79	GREEN MOUNTAIN POWER CORPORATION		110+84.77 RT.	SO. MAIN 604+61.64 LT.											UTILITY
80	TELEPHONE OPERATING CO. OF VT. LLC		110+84.79 RT.	SO. MAIN 604+61.64 LT.											UTILITY
81	BARRE, CITY OF (SEWER, WATER)		110+84.77 RT.	SO. MAIN 604+61.64 LT.											UTILITY
82	CHARTER ONE COMMUNICATIONS		110+84.77 RT.	SO. MAIN 604+61.64 LT.											UTILITY

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ROW SHEET 85 OF 100

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PROPOSED GRANITE BOLLARD AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED STREET LIGHT WITH LUMINAIRE BY GMP
PROPOSED SIGNAL POLE WITH LUMINAIRE
PROPOSED TRASH RECEPTACLE
PROPOSED PARKING METER
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT

TO R.O.W. LAYOUT 3

VT. STATE PLANE GRID

DOWNTOWN BARRE DEVELOPMENT

CITY OF BARRE DENTE PARK

MALONE, PATRICK M.

NORWAY BARRE REAL ESTATE LLC.
393-395 No. Main St.

Z'S NORTHERN PROPERTIES
379 No. Main St.

TIMBERLAKE ASSOCIATES
377 No. Main St.

BEGIN ROW PROJECT
F EGC-F 026-1(34)
STA. 110+84.77 RT.(32.68')
CONTRACT 2

386 NORTH MAIN STREET, LLC
386 No.Main St.

SIMONDS, EDWARD C.
372-8 No.Main St.

PATEL,PARESH ET AL
362 No. Main St.

MACDUFF, PAUL D. & BETTY LOU – LESSOR
CHAMPLAIN OIL COMPANY INC.– LESSEE
360 No. Main St.

CHAMPLAIN OIL COMPANY INC.
350 No. Main St.

VT PROPERTIES – LESSOR
CHAMPLAIN OIL – LESSEE

COLD PLANING, BITUMINOUS PAVEMENT
STA 110+65 - 112+00
STA 111+69 - 111+87 RT
STA 111+92 - 112+12 RT
STA 112+36 - 112+60 LT
STA 112+49 - 112+61 RT
STA 114+79 - 115+07 RT
STA 115+04 - 115+34 LT
STA 115+46 - 116+25 LT
STA 116+02 - 116+50 RT
SL STA 10+21 - 11+75
SL STA 20+51 - 21+75
SL STA 30+49 - 31+42

FOR LANDSCAPING DETAILS
SEE SHEET 33 OF 100

FOR WATER & SEWER DETAILS
SEE SHEET 54 OF 100

FOR LIGHTING AND POWER DETAILS
SEE SHEET 25 OF 100

TO R.O.W. LAYOUT 2

FOR R.O.W. USE ONLY

20 0 20 40
FEET

TO R.O.W. LAYOUT 7

ROW LAYOUT 1

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER: F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b0110bdr cp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 86 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 214 OF 339

VT. STATE PLANE GRID

N

CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS
SL STA 11+00 - 12+61 RT
SL STA 12+83 - 12+91 LT
SL STA 12+97 - 15+66 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
SL STA 13+04 - 13+80 RT

MANUFACTURED TERMINAL SECTION, FLARED
SL STA 13+31 - 13+80 RT

REMOVAL OF EXISTING FENCE
SL STA 13+24 - 15+21 RT

CHAIN-LINK FENCE, 8 FT (POLY-COATED BLACK)
SL STA 12+95 - 15+80 RT

GATE FOR CHAIN-LINK FENCE, 8 FEET (POLY-COATED BLACK)
SL STA 13+28

COLD PLANING, BITUMINOUS PAVEMENT
SL STA 11+75 - 12+66

STONE FILL, TYPE III
SL STA 14+57 RT
SL STA 15+28 RT
SL STA 15+59 RT

GEOTEXTILE FOR FILTER CURTAIN
SL STA 15+07 - 15+50 RT

PERMANENT EROSION MATTING
SL STA 14+32 - 15+45 RT (POND/ON SLOPES)

NOTE:
1. SEE THE ITEM DETAIL & DRAINAGE SHEETS AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)

FOR R.O.W. USE ONLY

PROPOSED GRANITE BOLLARD AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED STREET LIGHT WITH LUMINAIRE BY GMP
PROPOSED SIGNAL POLE WITH LUMINAIRE
PROPOSED TRASH RECEPTACLE
PROPOSED PARKING METER
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT

FOR LANDSCAPING DETAILS SEE SHEET 39 OF 100

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

ROW LAYOUT 2

PROJECT NAME: BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER: F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b010bdr cp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 87 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 215 OF 339

PROPOSED GRANITE BOLLARD AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED STREET LIGHT WITH LUMINAIRE BY GMP
PROPOSED SIGNAL POLE WITH LUMINAIRE
PROPOSED TRASH RECEPTACLE
PROPOSED PARKING METER
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT

N
VT. STATE PLANE GRID

TO R.O.W. LAYOUT 1

9 NORWAY BARRE REAL ESTATE LLC 6-8 Corti St.

NF R & G. PROPERTIES

WATKINS, THOMAS V. III & CROWLEY - WATKINS, JOANNE 18 Maple Ave.

6

VENMAR, MARIANNE S. 20 Maple Ave.

NF VENMAR, MARIANNE S.

5

CORTI STREET

MAPLE AVENUE

SUMMER STREET

SHORT STREET

PAVED DRIVE

PAVED LOT

DRIVE(T)

SR(T)

INSTALL & MAINT.(P)

WALK(T)

INSTALL(T)

RELOCATE UTILITY POLE (BY GMP)

END APPROACH STA 26+70 LIMITS OF PAVEMENT

EXCEPT & RESERVE

THOMPSON, ROBERT F. & BRENDA J. 118 Summer St. 3

PEARSON LIVING TRUST 21 Maple Ave. 2

HERSCHEL, LUCILLE J. & MOORE, W. GLENN 117 Summer St. 7

KEATON, WILLIAM H. & MARIE Z. 114-115 Summer St. 8

SEE INSET "A" FOR PARCEL #2 & #3 DETAIL ROW SHEET 89 OF 100

CHAIN-LINK FENCE, 4 FEET
SL STA 23+57 RT - SL STA 400+83 RT

REMOVAL OF EXISTING FENCE
SL STA 23+57 RT - SL STA 400+83 RT

COLD PLANING, BITUMINOUS PAVEMENT
SL STA 21+75 - 26+70
SL STA 400+19 - 402+75
SL STA 400+64 - 400+86 LT

NOTES:
1. SAWCUT OF EXISTING SIDEWALK SHALL BE INCIDENTAL TO ITEMS 618.10 & 618.11.
2. REMOVE ABANDONED GAS LINES TO LIMITS OF FULL-DEPTH CONSTRUCTION. PLUG EXISTING LINES AT LIMITS OF CONSTRUCTION.
3. THE PROPOSED SEWER AND WATER UTILITIES SHOWN ON THESE GENERAL PLANS ARE FOR INFORMATIONAL PURPOSES REFER TO THE SEWER AND WATER PLANS BY DUFRESNE ASSOCIATES FOR ACTUAL CONSTRUCTION INFORMATION.
4. SEE THE ITEM DETAIL & DRAINAGE SHEETS AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)

FOR LANDSCAPING DETAILS SEE SHEET 38 OF 100

TO R.O.W. LAYOUT 4

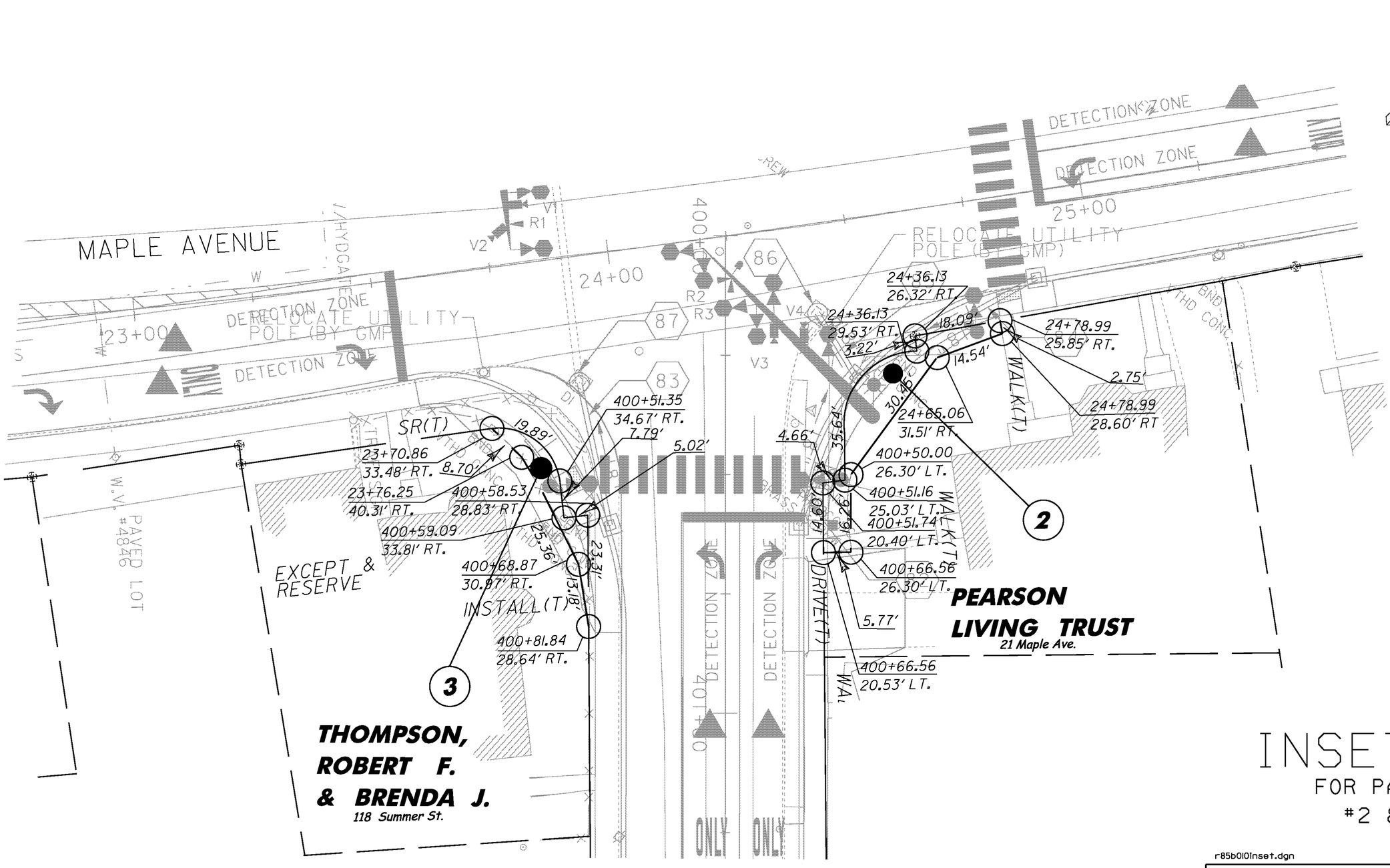
FOR R.O.W. USE ONLY

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

ROW LAYOUT 3

PROJECT NAME:	BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER:	F EGC-F 026-1(34) - CONTRACT 2
FILE NAME: z85b010bdr cp	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 88 OF 100	SHEET 216 OF 339



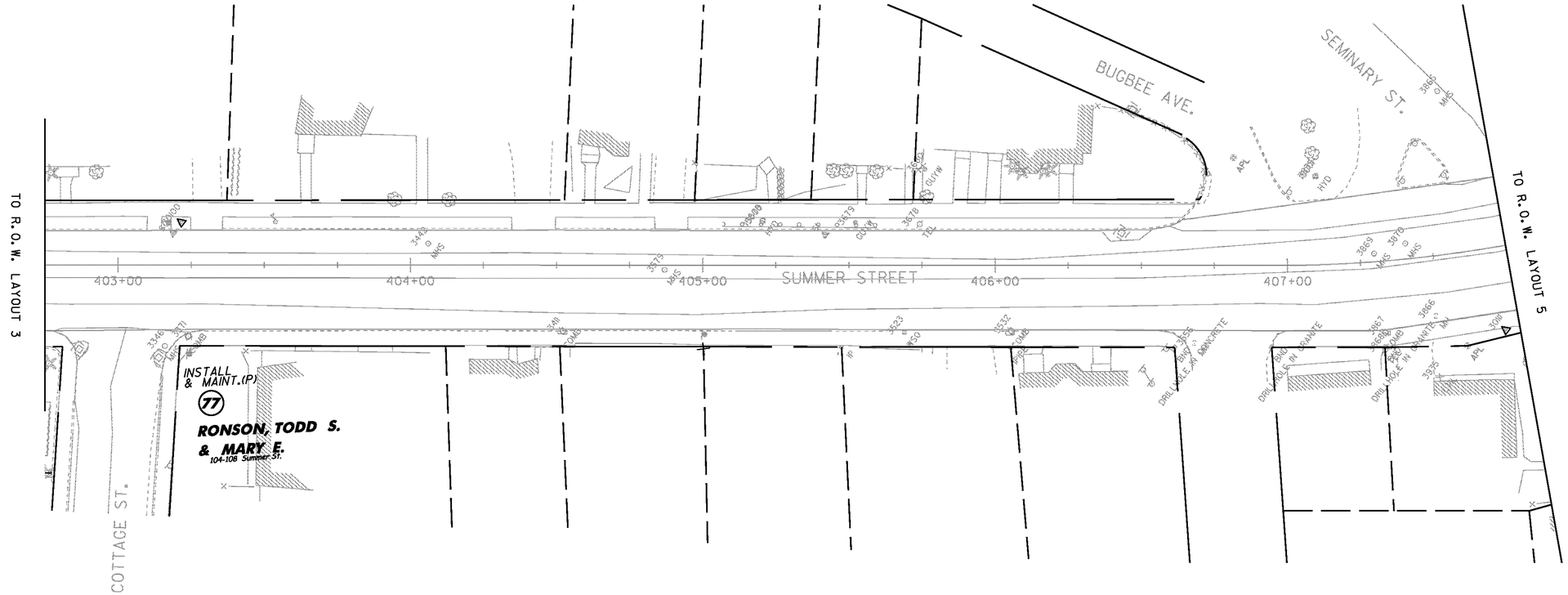
INSET "A"

FOR PARCELS #2 & #3

FOR R.O.W. USE ONLY

r85b0101inset.dgn

PROJECT NAME:	BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER:	F EGC-F 026-1(34) - CONTRACT 2
FILE NAME: z85b0101bdr cp	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 89 OF 100	SHEET 217 OF 339



COLD PLANING, BITUMINOUS PAVEMENT & RESURFACING
SL STA 402+75 - 407+75

FOR R.O.W. USE ONLY

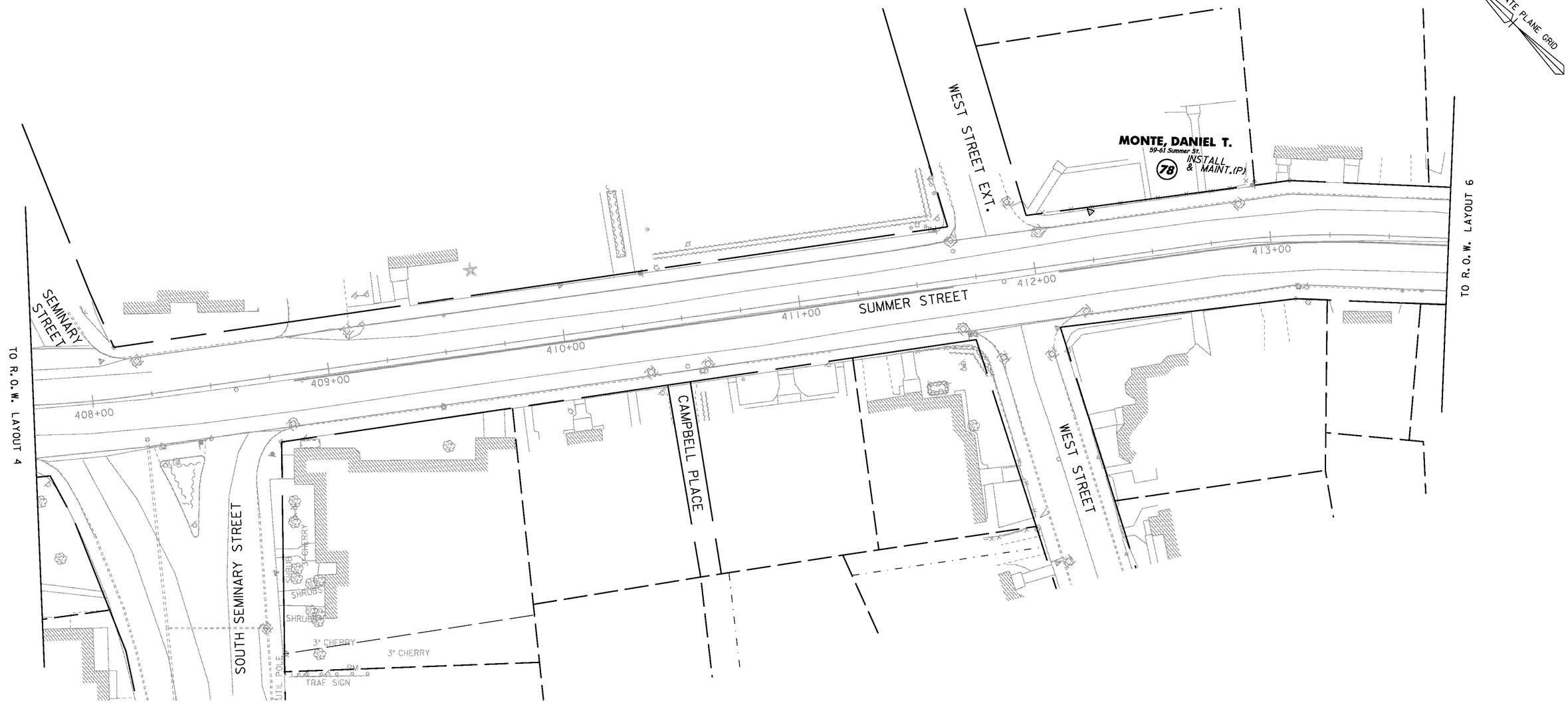
ROW LAYOUT 4

PROJECT NAME:	BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER:	F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b010bdr spm	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 90 OF 100	SHEET 218 OF 339

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.



COLD PLANING, BITUMINOUS PAVEMENT & RESURFACING
SL STA 407+75 - 413+75

FOR R.O.W. USE ONLY

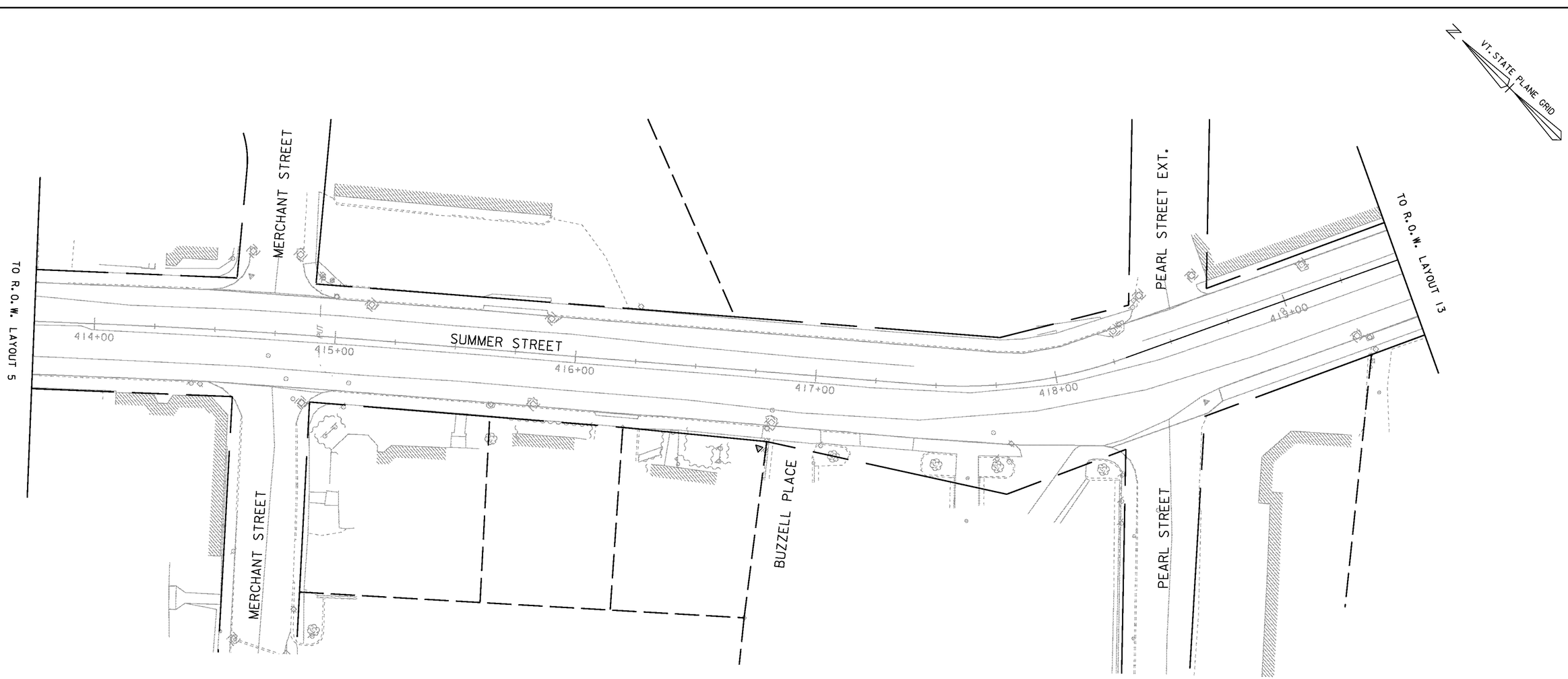
ROW LAYOUT 5

PROJECT NAME:	BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER:	F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b010bdr spm	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 91 OF 100	SHEET 219 OF 339

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.



COLD PLANING, BITUMINOUS PAVEMENT & RESURFACING
SL STA 413+75 - 419+50

FOR R.O.W. USE ONLY

ROW LAYOUT 6

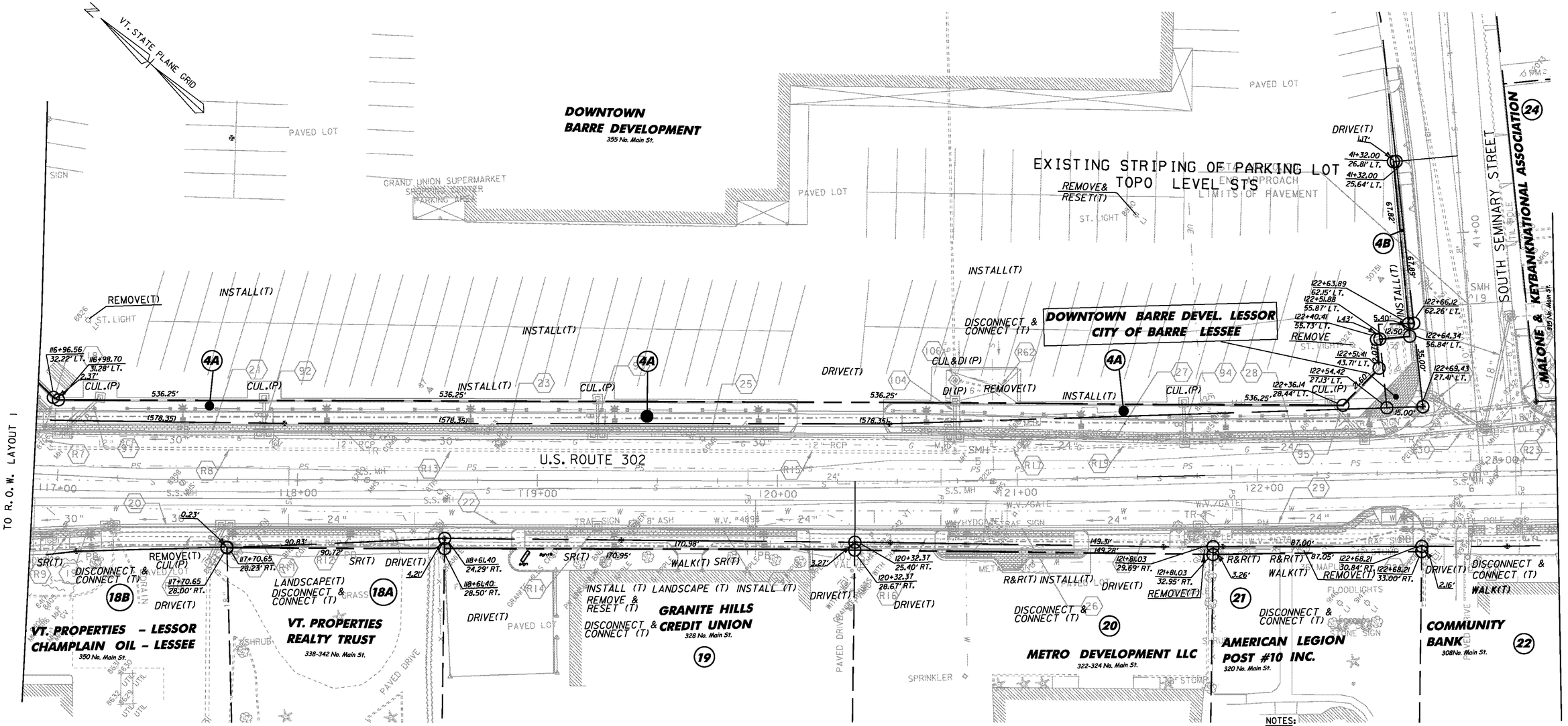
20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: BARRE CITY - NORTH MAIN ST.	
PROJECT NUMBER: F EGC-F 026-1(34) - CONTRACT 2	
FILE NAME: z85b010bdr spm	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 92 OF 100	SHEET 220 OF 339

TO R.O.W. LAYOUT 1

TO R.O.W. LAYOUT 8



COLD PLANING, BITUMINOUS PAVEMENT
STA 117+25 - 117+66 RT
STA 118+42 - 118+55 RT
STA 120+08 - 120+44 LT
STA 122+69 - 122+83 RT
SL STA 40+48 - 40+70

REMOVING AND RESETTING FENCE
STA 121+81 - 122+64 RT

NOTES:
1. SAWCUT OF EXISTING SIDEWALK SHALL BE INCIDENTAL TO ITEMS 618.10 & 618.11.
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3. THE PROPOSED SEWER AND WATER UTILITIES SHOWN ON THESE GENERAL PLANS ARE FOR INFORMATIONAL PURPOSES REFER TO THE SEWER AND WATER PLANS BY DUFRESNE ASSOCIATES FOR ACTUAL CONSTRUCTION INFORMATION.
4. SEE THE ITEM DETAIL & DRAINAGE SHEETS AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)

- PROPOSED GRANITE BOLLARD AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED STREET LIGHT WITH LUMINAIRE BY BMP
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED TRASH RECEPTACLE
- PROPOSED PARKING METER
- PROPOSED TREE LOCATION
- 4' x 5' PROPOSED TREE PIT
- PROPOSED FIRE HYDRANT

FOR LANDSCAPING DETAILS SEE SHEET 34 OF 100

FOR WATER & SEWER DETAILS SEE SHEET 55 OF 100

FOR LIGHTING AND POWER DETAILS SEE SHEET 26 OF 100

FOR R.O.W. USE ONLY

20 0 20 40
FEET

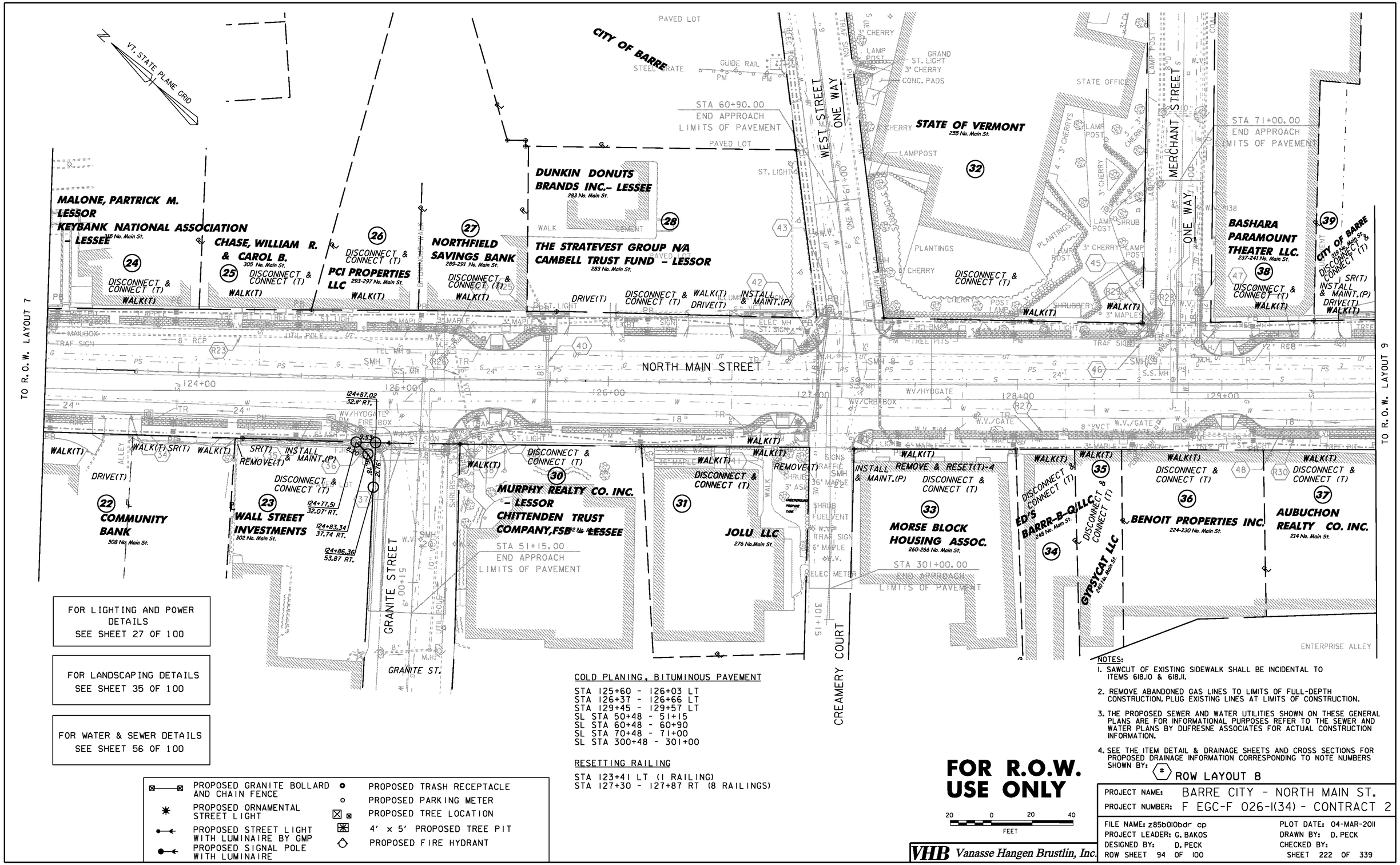
VHB Vanasse Hangen Brustlin, Inc.

ROW LAYOUT 7

PROJECT NAME: BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER: F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b010bdr cp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 93 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 221 OF 339



FOR LIGHTING AND POWER DETAILS
SEE SHEET 27 OF 100

FOR LANDSCAPING DETAILS
SEE SHEET 35 OF 100

FOR WATER & SEWER DETAILS
SEE SHEET 56 OF 100

- PROPOSED GRANITE BOLLARD AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED STREET LIGHT WITH LUMINAIRE BY GMP
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED TRASH RECEPTACLE
- PROPOSED PARKING METER
- PROPOSED TREE LOCATION
- 4' x 5' PROPOSED TREE PIT
- PROPOSED FIRE HYDRANT

COLD PLANING, BITUMINOUS PAVEMENT

STA 125+60 - 126+03 LT
STA 126+37 - 126+66 LT
STA 129+45 - 129+57 LT
SL STA 50+48 - 51+15
SL STA 60+48 - 60+90
SL STA 70+48 - 71+00
SL STA 300+48 - 301+00

RESETTING RAILING

STA 123+41 LT (1 RAILING)
STA 127+30 - 127+87 RT (8 RAILINGS)

NOTES:

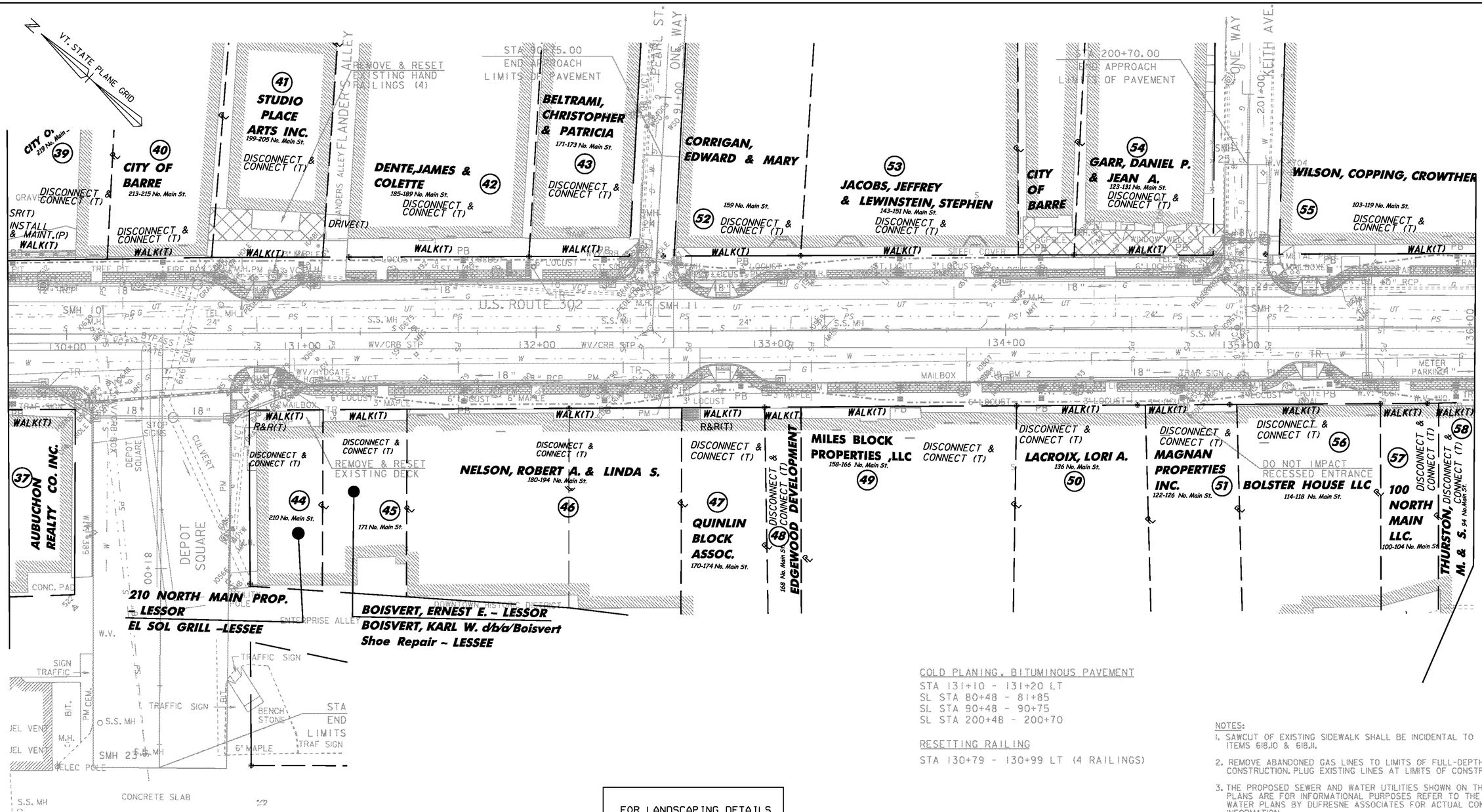
1. SAWCUT OF EXISTING SIDEWALK SHALL BE INCIDENTAL TO ITEMS 618.10 & 618.11.
2. REMOVE ABANDONED GAS LINES TO LIMITS OF FULL-DEPTH CONSTRUCTION. PLUG EXISTING LINES AT LIMITS OF CONSTRUCTION.
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4. SEE THE ITEM DETAIL & DRAINAGE SHEETS AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#) ROW LAYOUT 8

FOR R.O.W. USE ONLY

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER:	F EGC-F 026-1(34) - CONTRACT 2
FILE NAME: z85b010bdr cp	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 94 OF 100	SHEET 222 OF 339



FOR LANDSCAPING DETAILS
SEE SHEET 36 OF 100

FOR LIGHTING AND POWER DETAILS
SEE SHEET 28 OF 100

FOR WATER & SEWER DETAILS
SEE SHEET 57 OF 100

COLD PLANING, BITUMINOUS PAVEMENT
STA 131+10 - 131+20 LT
SL STA 80+48 - 81+85
SL STA 90+48 - 90+75
SL STA 200+48 - 200+70

RESETTING RAILING
STA 130+79 - 130+99 LT (4 RAILINGS)

NOTES:
1. SAWCUT OF EXISTING SIDEWALK SHALL BE INCIDENTAL TO ITEMS 618.10 & 618.11.
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FOR R.O.W. USE ONLY

20 0 20 40
FEET

ROW LAYOUT 9

PROJECT NAME: BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER: F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b010bdr cp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 95 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 223 OF 339

VHB Vanasse Hangen Brustlin, Inc.

VT. STATE PLANE GRID

TO R.O.W. LAYOUT 12

TO R.O.W. LAYOUT 14

TO R.O.W. LAYOUT 9

TO R.O.W. LAYOUT 11

COLD PLANING, BITUMINOUS PAVEMENT
STA 136+64 - 136+78 LT
STA 139+60 - 140+25
ST STA 600+48 - 603+75
SL STA 500+25 - 501+60
SL STA 700+53 - 701+50
SL STA 800+19 - 800+65

(71) ALDRICH PUBLIC LIBRARY
6 Washington St.

701+32.15 27.64' RT.
SLOPE(T) 4.97'
701+32.15 22.78' LT.
139+35.54 61.84' LT.
WALK(T) 30.97' 30.63'
139+61.38 45.46' LT.
139+88.42 35.00' LT.
29.00'
56.71'
55.70'
139+32.77 32.65' LT.

STA 138+00.00
END PROJECT
BEGIN APPROACH

138+75.17 38.22' LT.
138+78.88 30.68' LT.
138+67.29 29.37' LT.

(62) IB PROPERTY HOLDINGS ,LLC
47-59 No. Main St.
DISCONNECT & CONNECT (T)

(61) ORMSBY FAMILY TRUST U/A
71-77 No. Main St.
DISCONNECT & CONNECT (T)

(60) 81-85 NORTH MAIN ST. LLC
81-85 No. Main St.
DISCONNECT & CONNECT (T)

WILSON, COPPING & CROWTHER

(55)

INSTALL &MAINT.(P)
WALK(T)
INSTALL &MAINT.(P)
WALK(T)
DRIVE(T)
DRIVE(T)

(63) LACROSS, EDWARD H. & YVONNE M.
DISCONNECT & CONNECT (T)
WALK(T)
INSTALL & MAINT.(P)

(64) McCARTHY, MARK N. & McCARTHY, TODD G.
46-54 No. Main St.
DISCONNECT & CONNECT (T)
WALK(T)
INSTALL & MAINT.(P)

(65) TD BANK, NA.
26-40 No. Main St.
WALK(T)
INSTALL (T)

(66) ABG CORP.
14-22 No. Main St.
WALK(T)

CITY OF BARRE

(59) GRANITE CITY HOLDING COMPANY INC.
84-88 No. Main St.
DISCONNECT & CONNECT (T)
WALK(T)
INSTALL & MAINT.(P)

(58) THURSTON, M. & S.

STA 501+60.00
END APPROACH
LIMITS OF PAVEMENT

(67) USA POST OFFICE
3 So. Main St.
REMOVE & RESET (T)
INSTALL & MAINT. (P)-(4)

(69) UNIVERSALIST CHURCH THE FIRST CHURCH IN BARRE
19 Church St.
INSTALL & MAINT. (P)-2
603+11.42 41.68' LT.
603+12.09 41.60' LT.
603+12.59 31.48' LT.
603+18.29 42.57' LT.
603+37.55 19.50' LT
2.02'
603+37.55 17.49' LT.
603+07.76 19.06' LT.
INSTALL & MAINT. (P)

STA 800+65.00
END APPROACH
LIMITS OF PAVEMENT

NOTES:
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4. SEE THE ITEM DETAIL & DRAINAGE SHEETS AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)

FOR R.O.W. USE ONLY

FOR LANDSCAPING DETAILS SEE SHEET 37 OF 100

FOR LIGHTING AND POWER DETAILS SEE SHEET 29 OF 100

FOR WATER & SEWER DETAILS SEE SHEET 58 OF 100

- PROPOSED GRANITE BOLLARD AND CHAIN FENCE
- PROPOSED ORNAMENTAL STREET LIGHT
- PROPOSED STREET LIGHT WITH LUMINAIRE BY CMP
- PROPOSED SIGNAL POLE WITH LUMINAIRE
- PROPOSED TRASH RECEPTACLE
- PROPOSED PARKING METER
- PROPOSED TREE LOCATION
- 4' x 5' PROPOSED TREE PIT
- PROPOSED FIRE HYDRANT

20 0 20 40
FEET

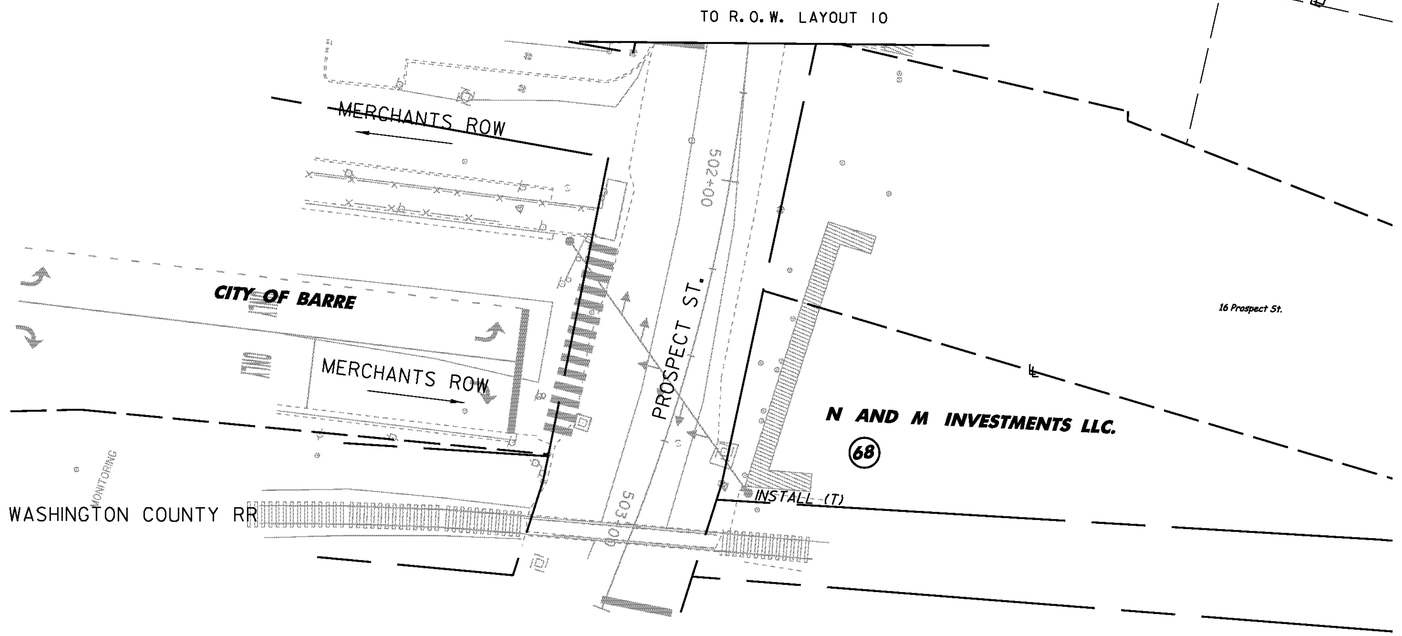
VHB Vanasse Hangen Brustlin, Inc.

ROW LAYOUT 10

PROJECT NAME: BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER: F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b010bdr cp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 96 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 224 OF 339



FOR R.O.W. USE ONLY

ROW LAYOUT 11

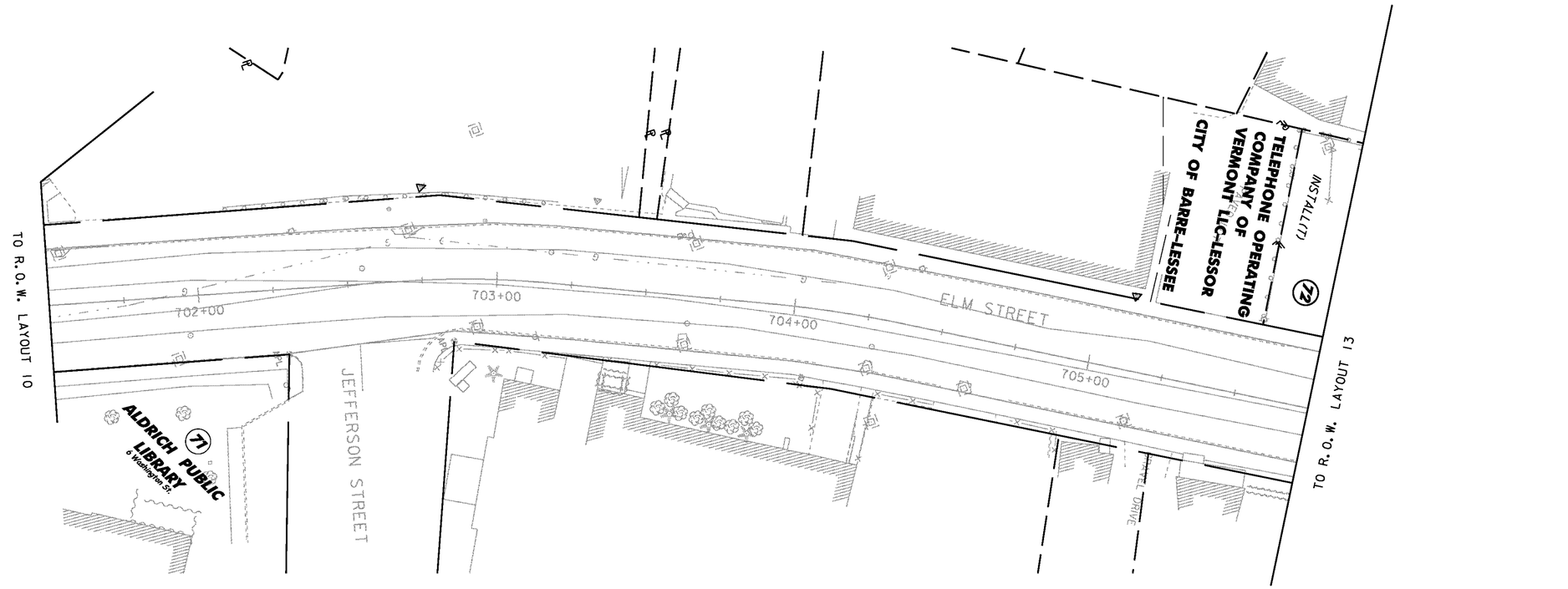
PROJECT NAME:	BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER:	F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b010bdr nu	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 97 OF 100	SHEET 225 OF 339

VHB Vanasse Hangen Brustlin, Inc.

PROPOSED GRANITE BOLLARD AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED STREET LIGHT WITH LUMINAIRE BY GMP
PROPOSED SIGNAL POLE WITH LUMINAIRE
PROPOSED TRASH RECEPTACLE
PROPOSED PARKING METER
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT

VT. STATE PLANE GRID



COLD PLANING, BITUMINOUS PAVEMENT & RESURFACING
SL STA 701+50 - 705+75

FOR R.O.W. USE ONLY

ROW LAYOUT 12

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER:	F EGC-F 026-1(34) - CONTRACT 2
FILE NAME: z85b010bdr cp	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 98 OF 100	SHEET 226 OF 339

PROPOSED GRANITE BOLLARD AND CHAIN FENCE
PROPOSED ORNAMENTAL STREET LIGHT
PROPOSED STREET LIGHT WITH LUMINAIRE BY GMP
PROPOSED SIGNAL POLE WITH LUMINAIRE
PROPOSED TRASH RECEPTACLE
PROPOSED PARKING METER
PROPOSED TREE LOCATION
4' x 5' PROPOSED TREE PIT
PROPOSED FIRE HYDRANT

N
VT. STATE PLANE GRID

TO R.O.W. LAYOUT 6

SUMMER STREET
PAVED LOT
CONCRETE SIDEWALK
DRURY, MARIE
1 Summer St.
73
INSTALL & MAINT. (P) (2) SLOPE(T) DRIVE(T) INSTALL(P)
STA 707+80.00
END APPROACH
LIMITS OF PAVEMENT
ELLINGTON STREET
FRANKLIN STREET
708+50
708+00
CITY OF BARRE
424+00
423+00
ELM STREET
DETECTION ZONE
STA 423+00.00
END APPROACH
LIMITS OF PAVEMENT
706+95.03
47.04' LT.
421+59.89
31.17' RT.
421+59.89
33.32' RT.
41.54'
20.38'
REMOVE(T)
19.97'
INSTALL(T)
421+80.16
34.31' RT.
706+85.17
48.21' RT.
706+74.68
24.87' LT.
702+29.00
21.83' LT.
706+37.81
27.00' LT.
RELOCATE UTILITY POLE (BY OTHERS)
INSTALL & MAINT. (P)
REMOVE(T)
706+21.84
27.10' LT.
706+21.84
25.13' LT.
TELEPHONE OPERATING COMPANY OF VERMONT LLC-LESSOR
72
50-58 Elm St.
CITY OF BARRE-LESSEE
KEITH AVE.
ONE WAY
GRAVEL LOT
GRAVEL DRIVE
TO R.O.W. LAYOUT 12

STEEL BEAM GUARDRAIL, GALVANIZED (DOUBLE-FACED)
SL STA 421+62 - 421+75 RT
SL STA 421+82 - 421+88 RT
SL STA 706+21 - 706+80 LT

TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL
SL STA 421+62 RT
SL STA 421+75 RT
SL STA 421+82 RT
SL STA 421+88 RT
SL STA 706+80 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
SL STA 706+21 - 706+77 LT

COLD PLANING, BITUMINOUS PAVEMENT
SL STA 419+50 - 423+90
SL STA 422+07 - 422+16 LT
SL STA 705+75 - 707+80

NOTES:
1. SAWCUT OF EXISTING SIDEWALK SHALL BE INCIDENTAL TO ITEMS 618.10 & 618.11.
2. REMOVE ABANDONED GAS LINES TO LIMITS OF FULL-DEPTH CONSTRUCTION. PLUG EXISTING LINES AT LIMITS OF CONSTRUCTION.
3. THE PROPOSED SEWER AND WATER UTILITIES SHOWN ON THESE GENERAL PLANS ARE FOR INFORMATIONAL PURPOSES REFER TO THE SEWER AND WATER PLANS BY DUFRESNE ASSOCIATES FOR ACTUAL CONSTRUCTION INFORMATION.
4. SEE THE ITEM DETAIL & DRAINAGE SHEETS AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)

FOR R.O.W. USE ONLY

20 0 20 40
FEET

VHB Vanasse Hangen Brustlin, Inc.

ROW LAYOUT 13

PROJECT NAME: BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER: F EGC-F 026-1(34) - CONTRACT 2

FILE NAME: z85b0l0bdr cp
PROJECT LEADER: G. BAKOS
DESIGNED BY: D. PECK
ROW SHEET 99 OF 100

PLOT DATE: 04-MAR-2011
DRAWN BY: D. PECK
CHECKED BY:
SHEET 227 OF 339

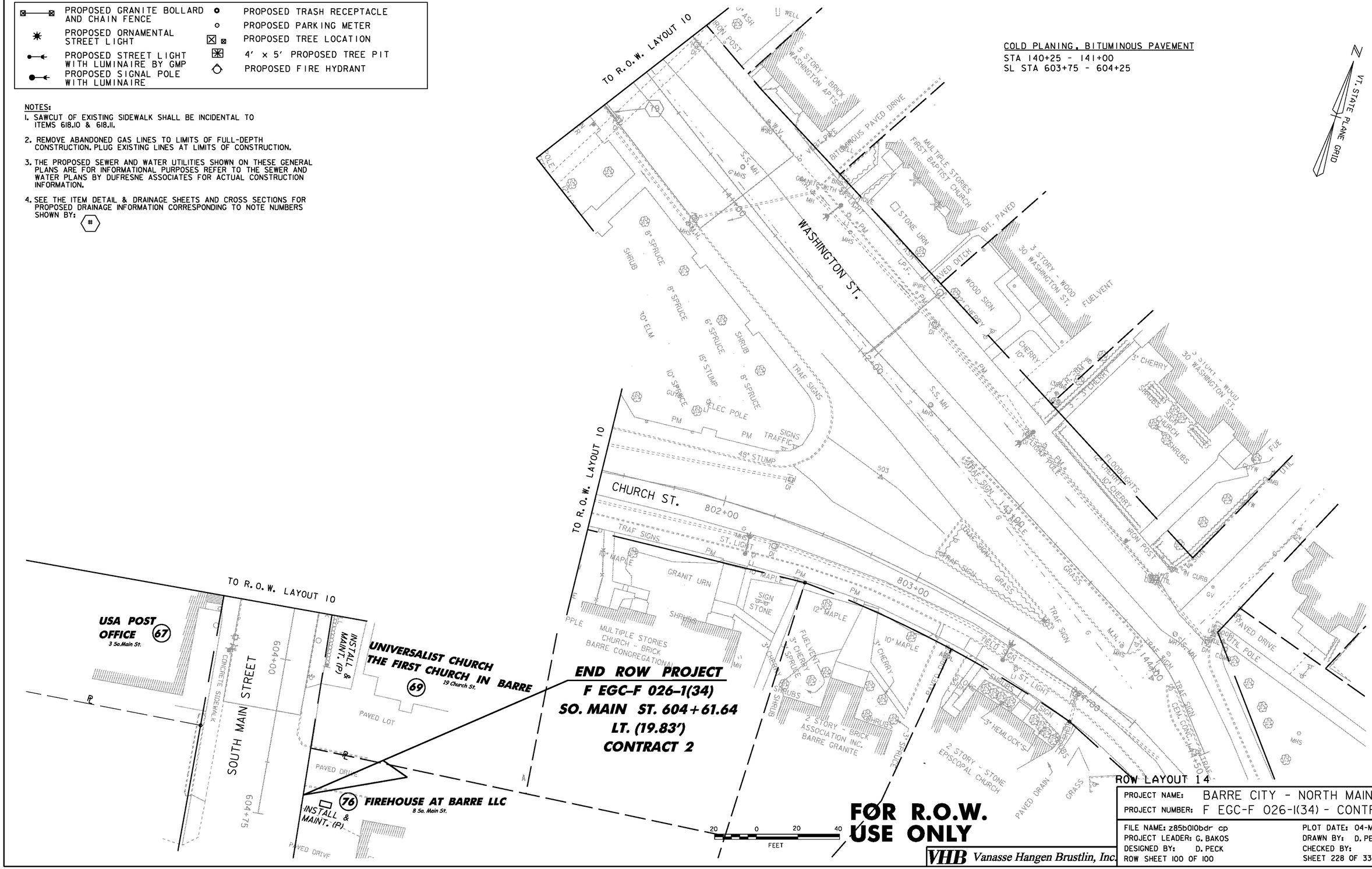
⊠——⊠	PROPOSED GRANITE BOLLARD AND CHAIN FENCE	○	PROPOSED TRASH RECEPTACLE
✷	PROPOSED ORNAMENTAL STREET LIGHT	○	PROPOSED PARKING METER
●——	PROPOSED STREET LIGHT WITH LUMINAIRE BY GMP	⊠ ⊠	PROPOSED TREE LOCATION
●——	PROPOSED SIGNAL POLE WITH LUMINAIRE	⊠	4' x 5' PROPOSED TREE PIT
		◇	PROPOSED FIRE HYDRANT

NOTES:

1. SAWCUT OF EXISTING SIDEWALK SHALL BE INCIDENTAL TO ITEMS 618.10 & 618.11.
2. REMOVE ABANDONED GAS LINES TO LIMITS OF FULL-DEPTH CONSTRUCTION. PLUG EXISTING LINES AT LIMITS OF CONSTRUCTION.
3. THE PROPOSED SEWER AND WATER UTILITIES SHOWN ON THESE GENERAL PLANS ARE FOR INFORMATIONAL PURPOSES REFER TO THE SEWER AND WATER PLANS BY DUFRESNE ASSOCIATES FOR ACTUAL CONSTRUCTION INFORMATION.
4. SEE THE ITEM DETAIL & DRAINAGE SHEETS AND CROSS SECTIONS FOR PROPOSED DRAINAGE INFORMATION CORRESPONDING TO NOTE NUMBERS SHOWN BY: (#)

COLD PLANING, BITUMINOUS PAVEMENT
STA 140+25 - 141+00
SL STA 603+75 - 604+25

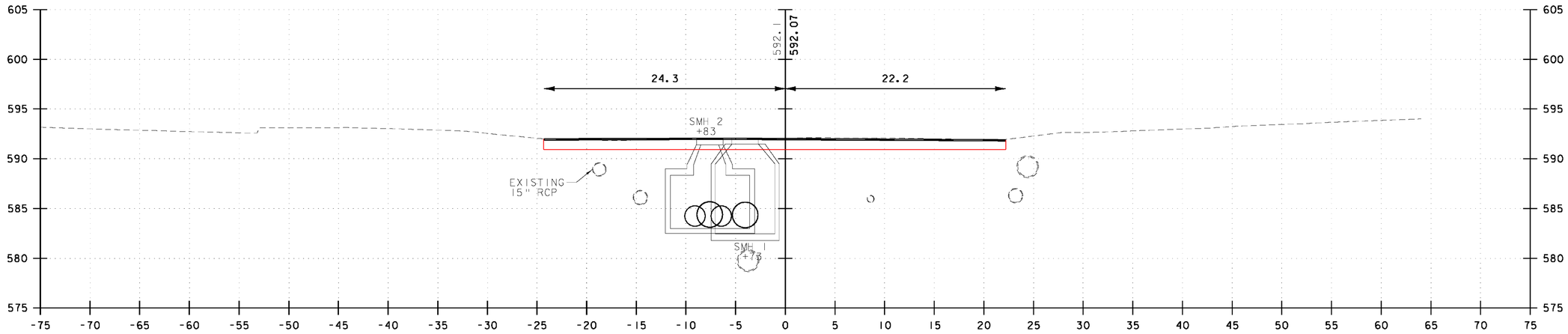
N
VT STATE PLANE GRID



FOR R.O.W. USE ONLY

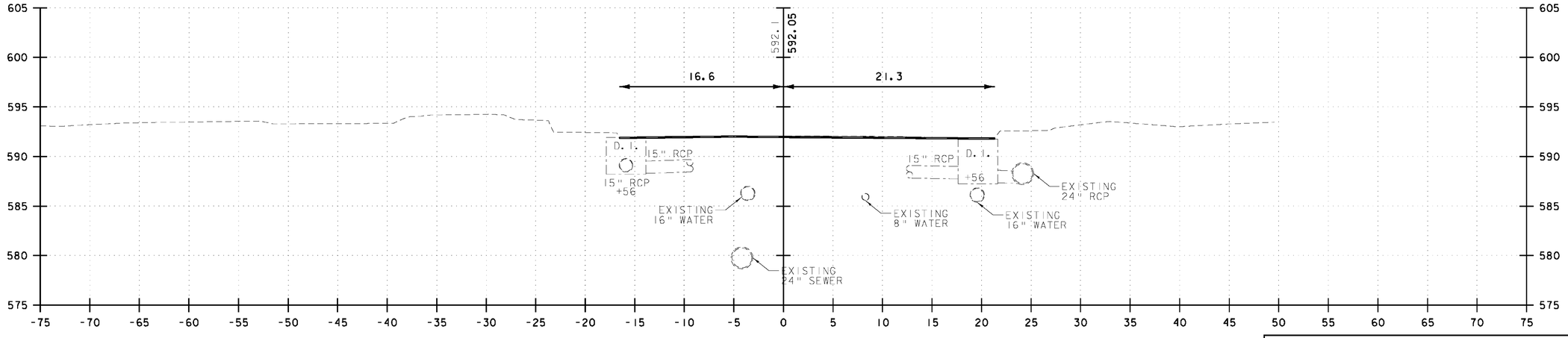
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME:	BARRE CITY - NORTH MAIN ST.
PROJECT NUMBER:	F EGC-F 026-1(34) - CONTRACT 2
FILE NAME: z85b0110bdr cp	PLOT DATE: 04-MAR-2011
PROJECT LEADER: G. BAKOS	DRAWN BY: D. PECK
DESIGNED BY: D. PECK	CHECKED BY:
ROW SHEET 100 OF 100	SHEET 228 OF 339



110+77 EXCAVATION ~ 46.5' • 1.15'= 53 SF

$\frac{4.25}{100} = \frac{X}{27'} = 1.15'$



110+~~65~~50 ECAVATION = 0

BEGIN APPROACH STA. 110+~~65~~25

5 0 5 10
FEET

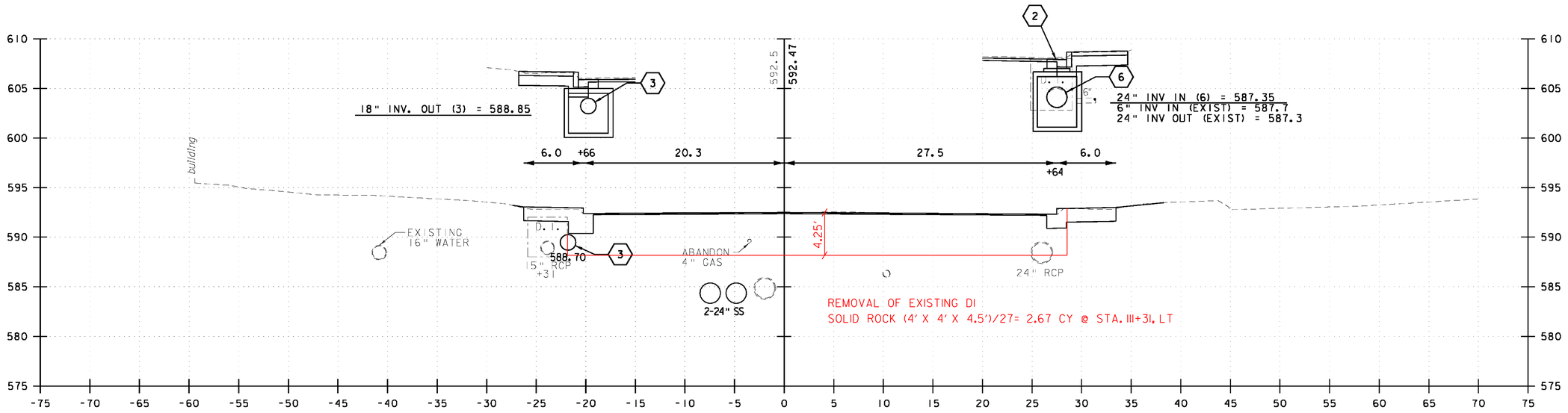
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

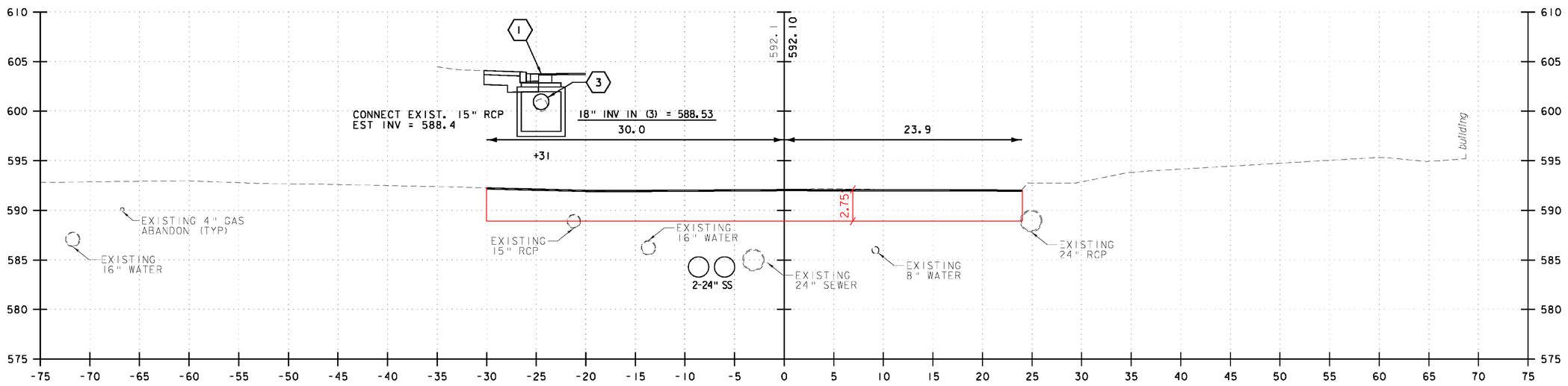
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 229 OF 339



111+50

EXCAVATION ~ (4.25' X 50.5') + (2 X 5' X 1.42')= 229 SF
DENSE GRADED ~ 2.00' X 50.5'= 101 SF
SAND BORROW ~ 1.50' X 50.5'= 76 SF



111+~~00~~07

EXCAVATION ~ 2.75' X 54'= 148 SF
DENSE GRADED ~ 2.00' X 54'= 108 SF
SAND BORROW = 0

5 0 5 10
FEET

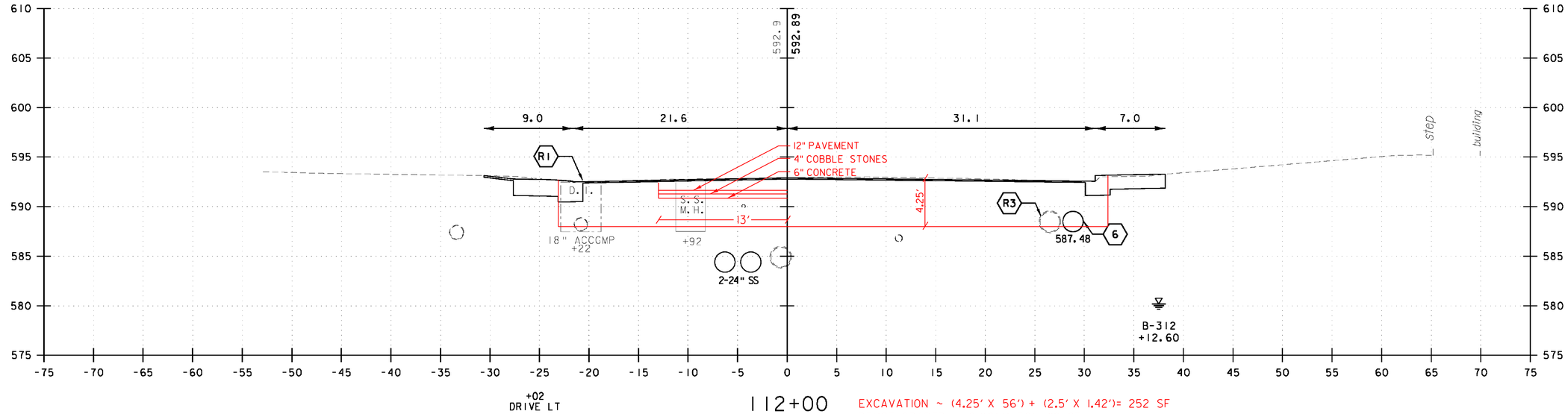
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

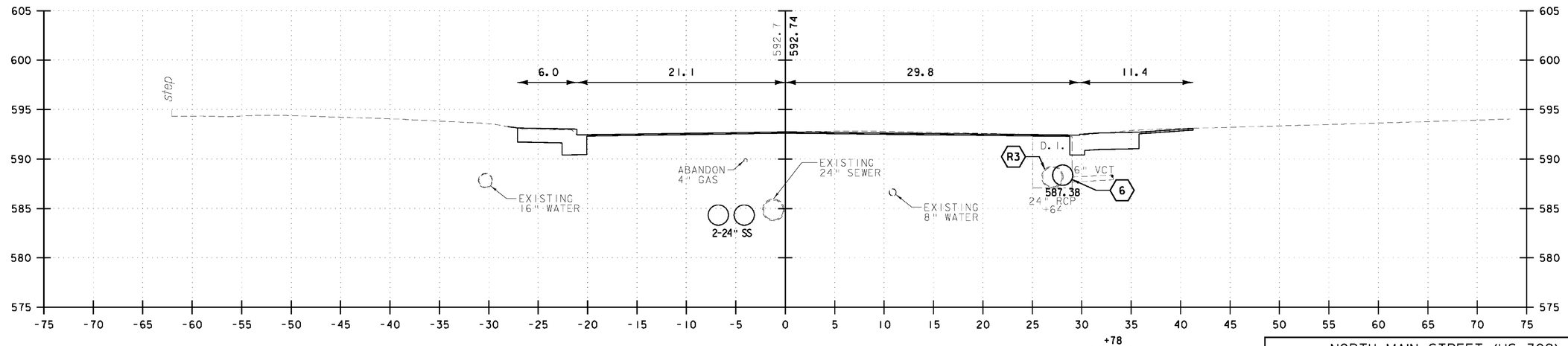
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 230 OF 339



+02
DRIVE LT

112+00

EXCAVATION ~ (4.25' X 56') + (2.5' X 1.42')= 252 SF
DENSE GRADED ~ 2.00' X 56'= 112 SF
SAND BORROW ~ 1.50' X 56'= 84 SF



+78
DRIVE RT

111+79

5 0 5 10
FEET

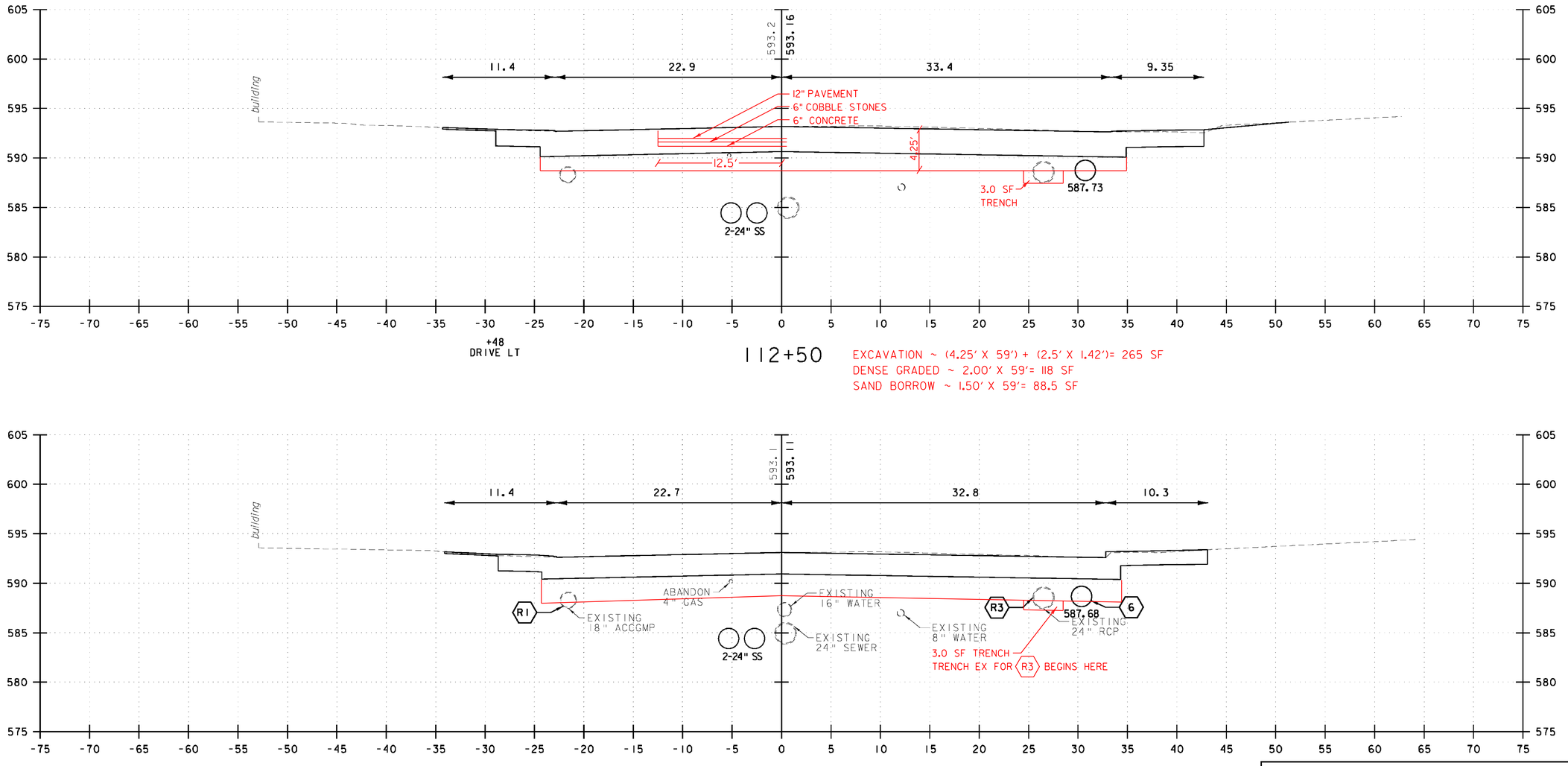
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsi_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 231 OF 339



VHB Vanasse Hangen Brustlin, Inc.

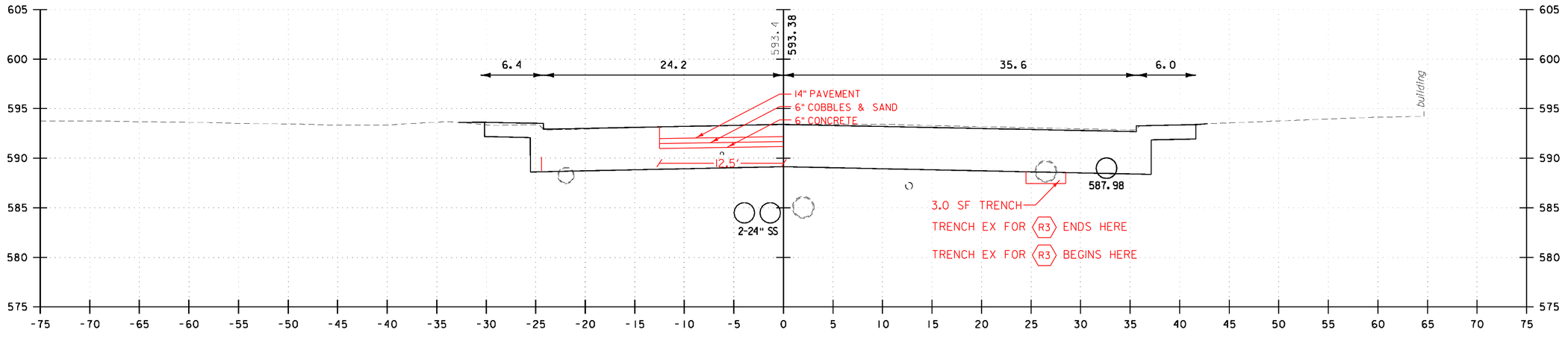
NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY

PROJECT NUMBER: FEGC F 026-1(34) C/2

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PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

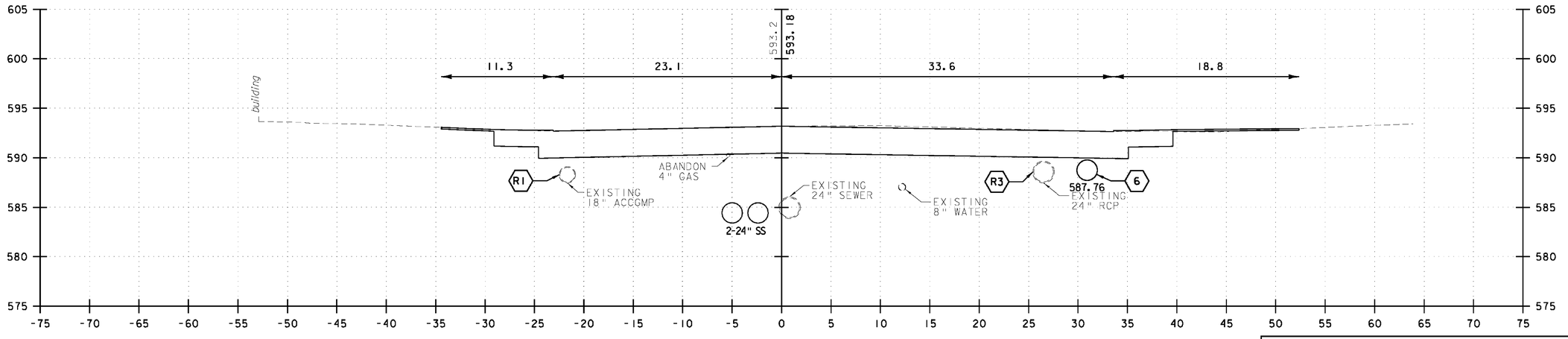
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 232 OF 339



113+00

END APPROACH/BEGIN PROJECT STA. 113+00

EXCAVATION ~ (4.25' X 63') + (2.5' X 1.42')= 282 SF
DENSE GRADED ~ 2.00' X 63'= 126 SF
SAND BORROW ~ 1.50' X 63'= 94.5 SF



112+55

+55
DRIVE R

5 0 5 10
FEET

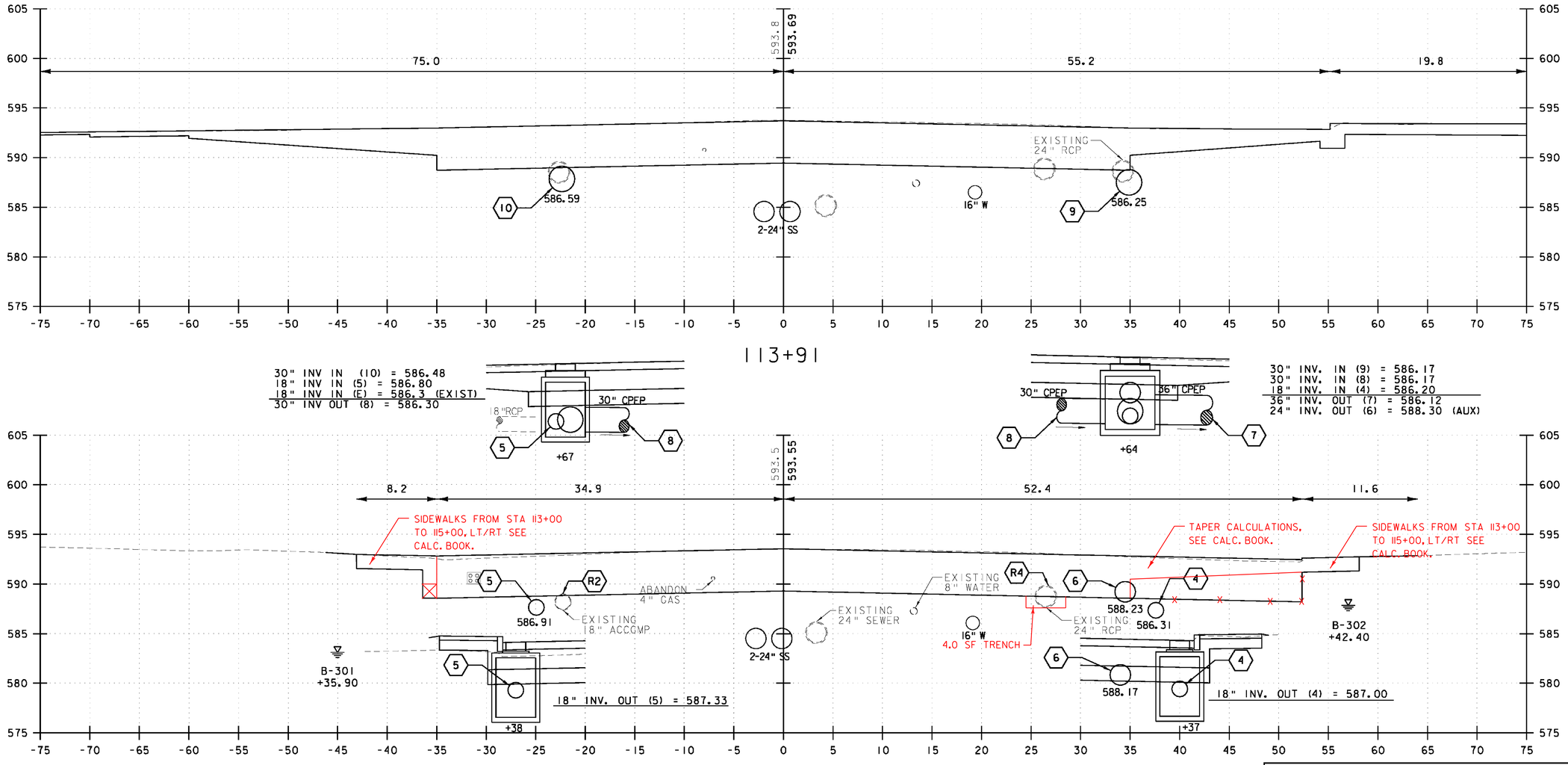
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 233 OF 339



VHB Vanasse Hangen Brustlin, Inc.

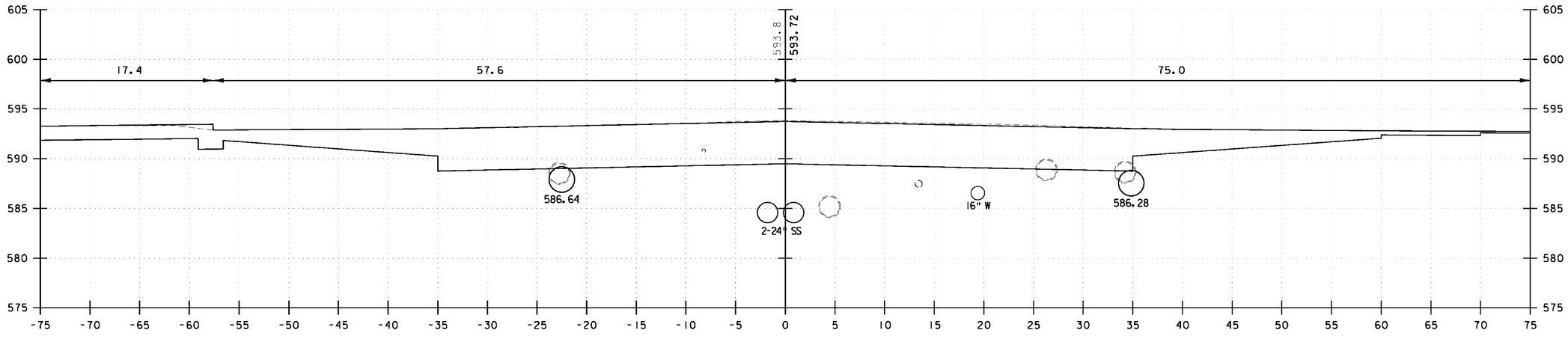
NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY

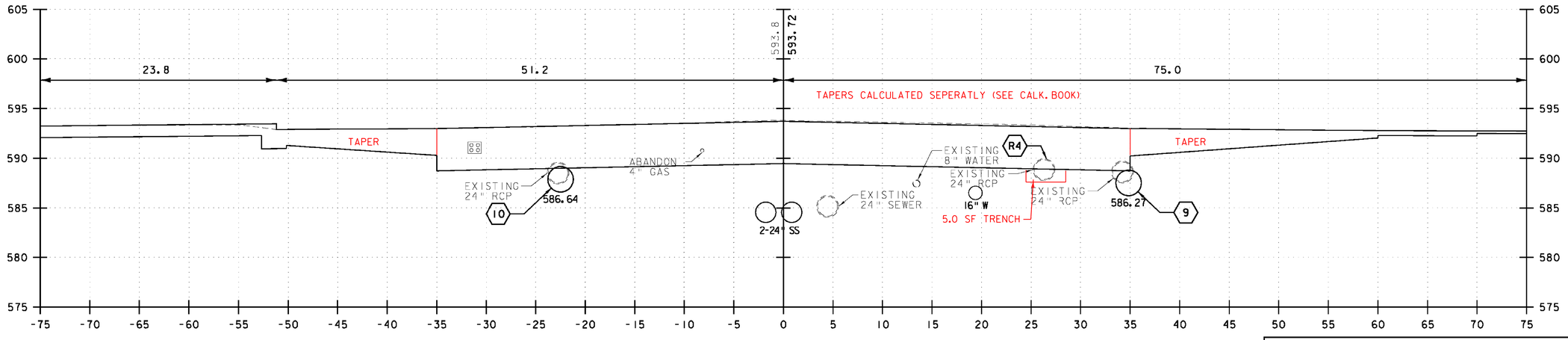
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FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 234 OF 339



114+01



114+00

DENSE GRADED ~ 2.00' X 70'= 140 SF
SAND BORROW ~ 1.50' X 70'= 105 SF

5 0 5 10
FEET

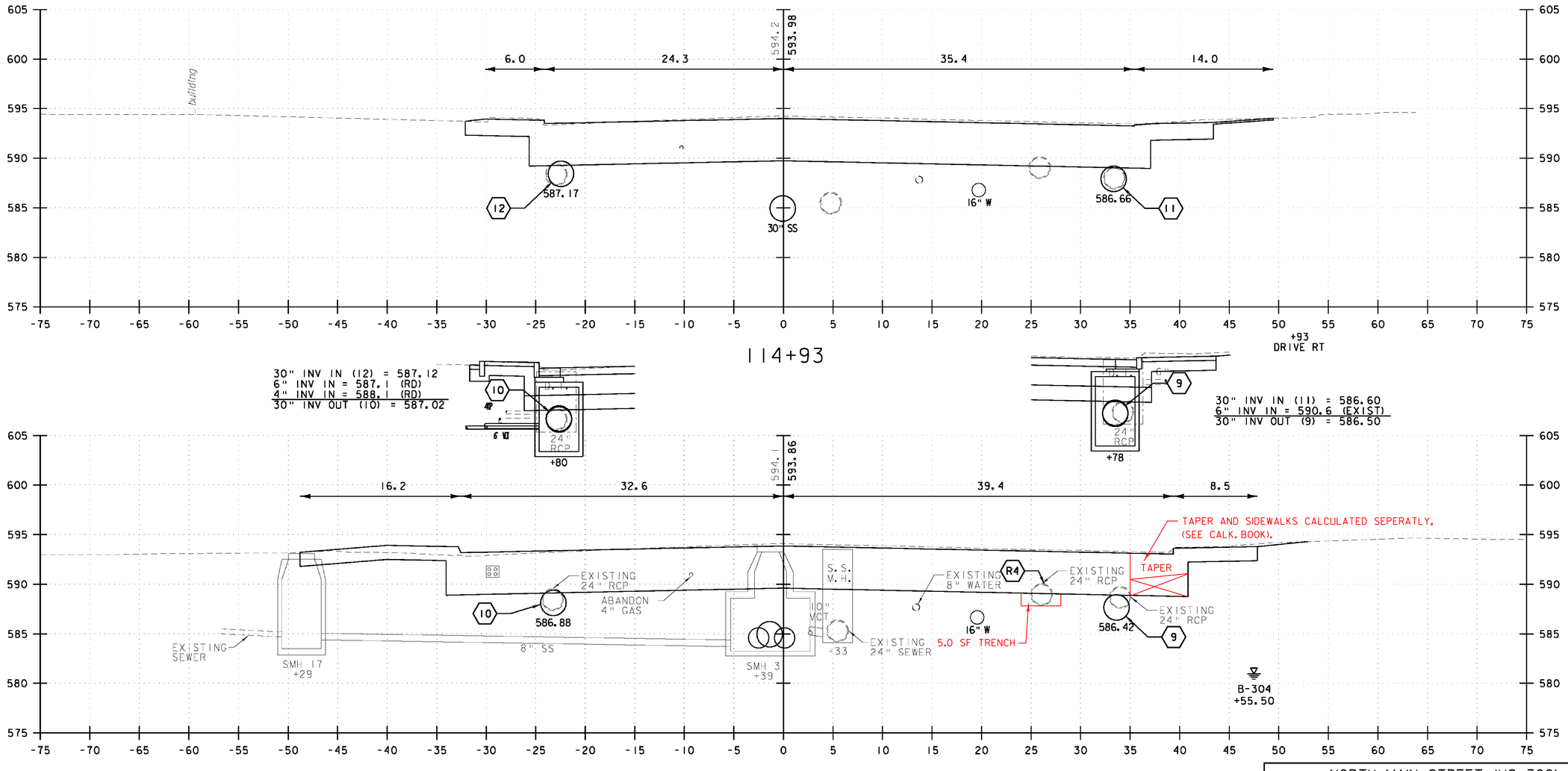
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 235 OF 339



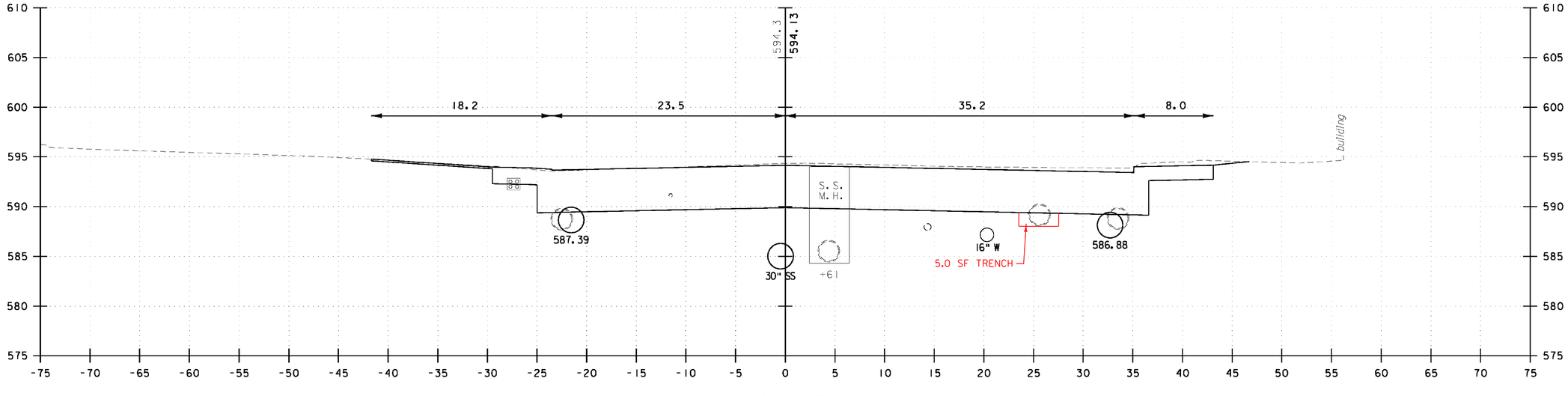
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

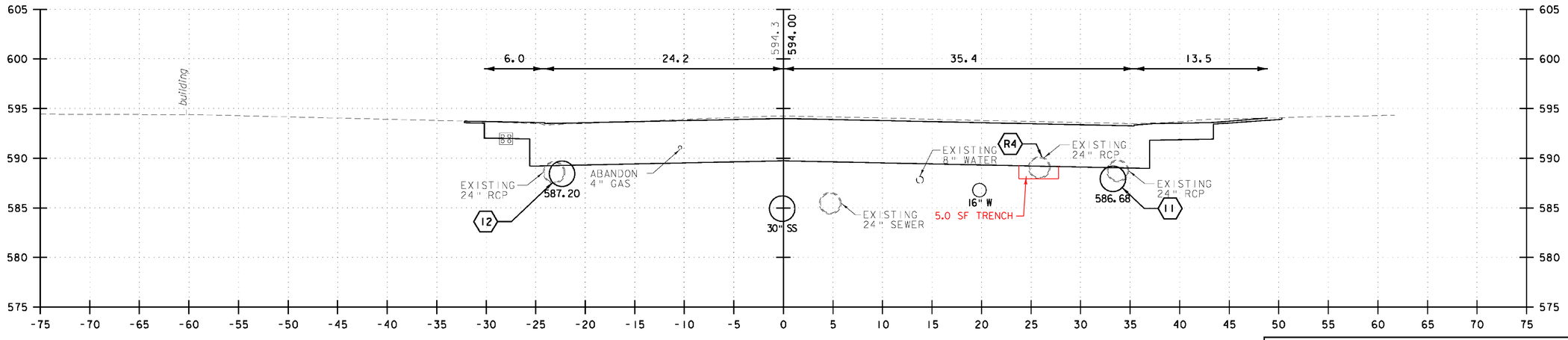
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 236 OF 339



115+50 DENSE GRADED ~ 2.00' X 62'= 124 SF
SAND BORROW ~ 1.50' X 62'= 93 SF



+19
DRIVE LT

115+00 DENSE GRADED ~ 2.00' X 63'= 126 SF
SAND BORROW ~ 1.50' X 63'= 94.5 SF

5 0 5 10
FEET

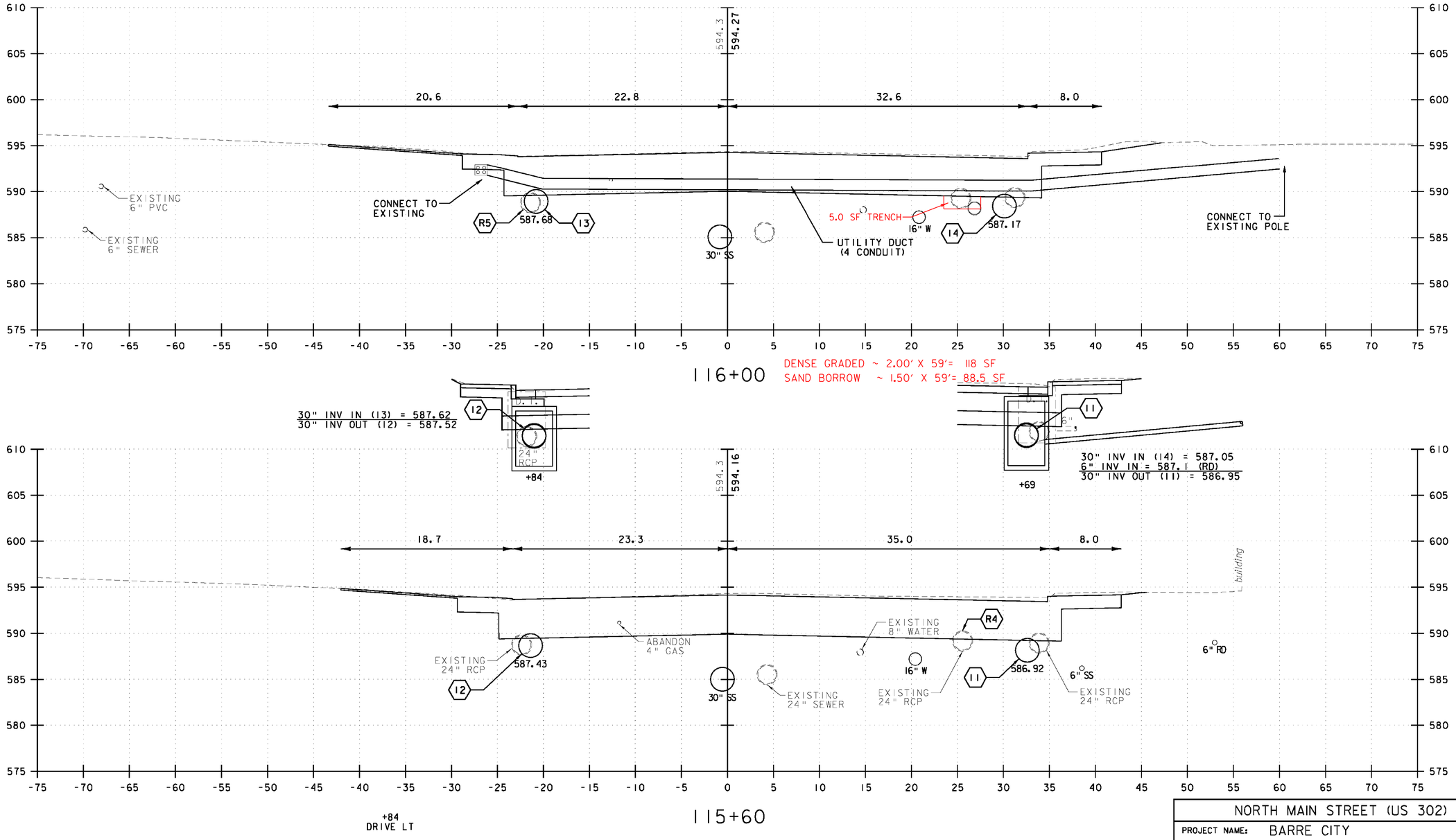
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 237 OF 339



5 0 5 10
FEET

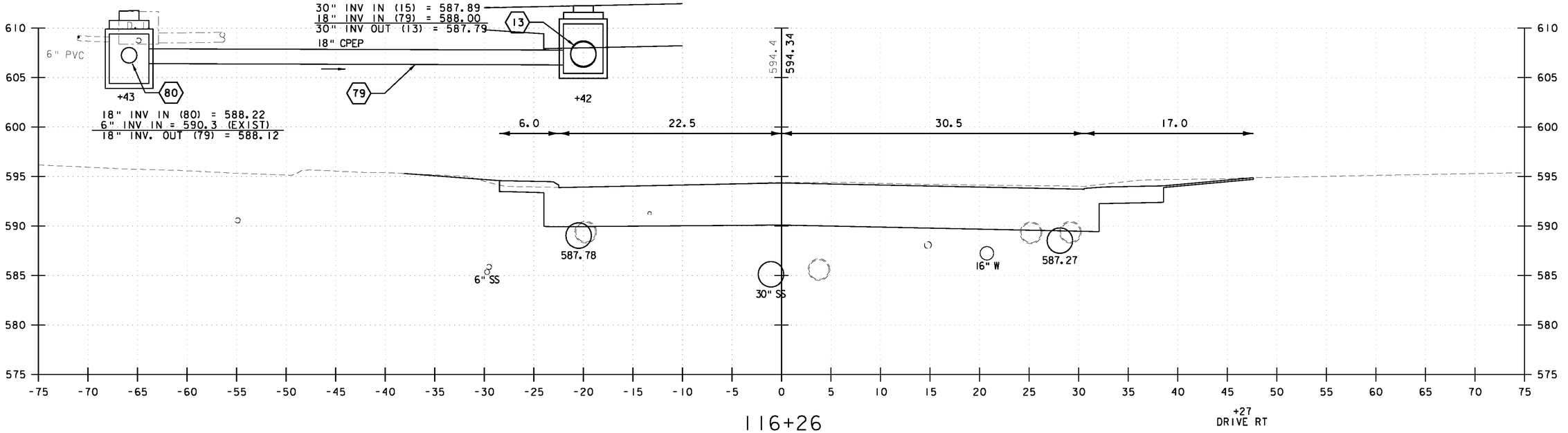
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

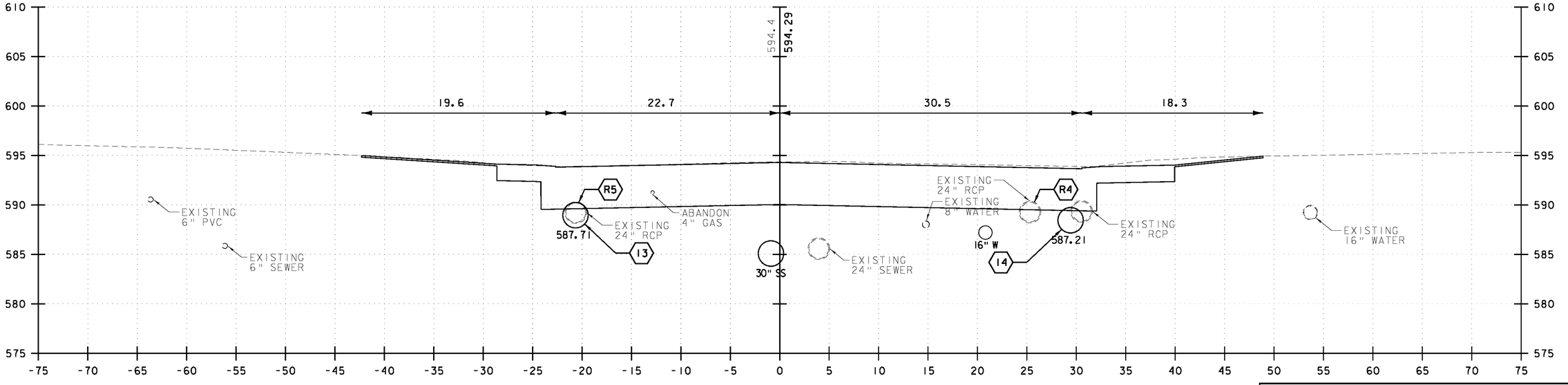
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PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 238 OF 339



116+26

+27
DRIVE RT



116+09

5 0 5 10
FEET

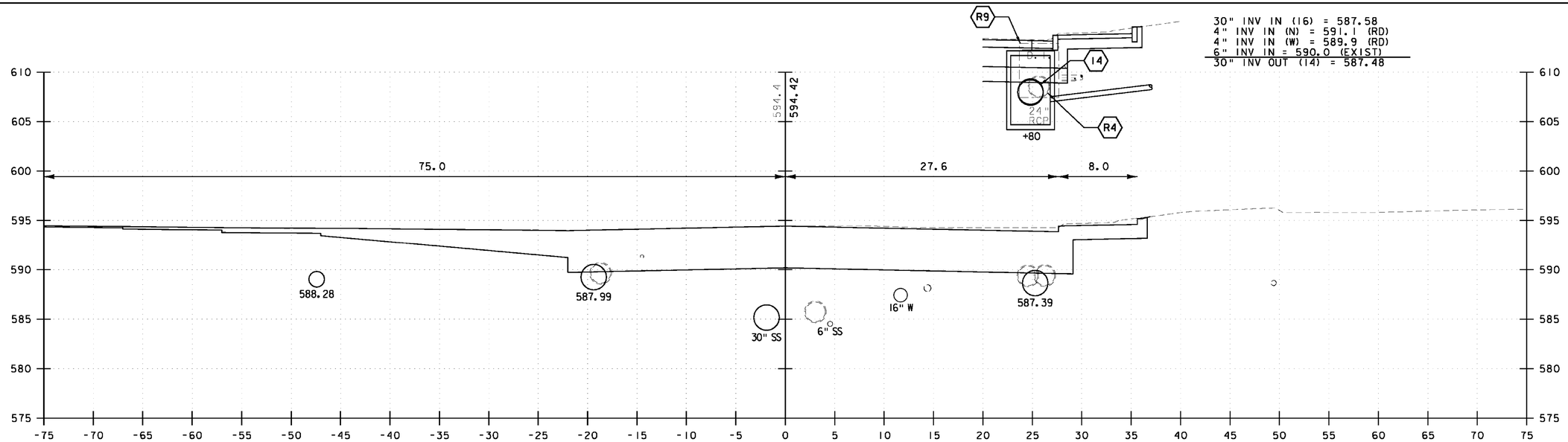
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

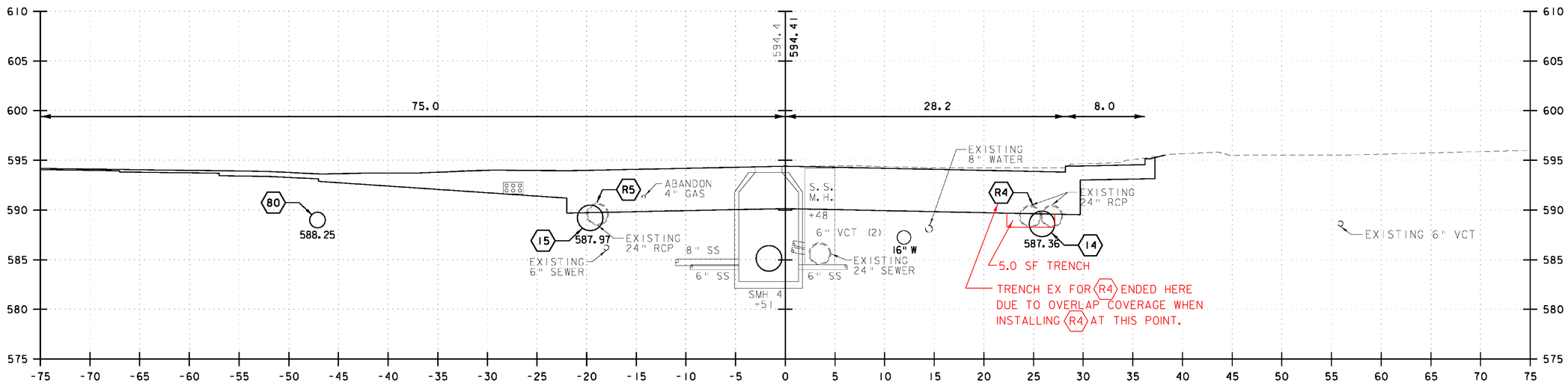
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 239 OF 339



116+56



116+50

DENSE GRADED ~ 2.00' X 51.7'= 77.6 SF
SAND BORROW ~ 1.50' X 51.7'= 103.4 SF

5 0 5 10
FEET

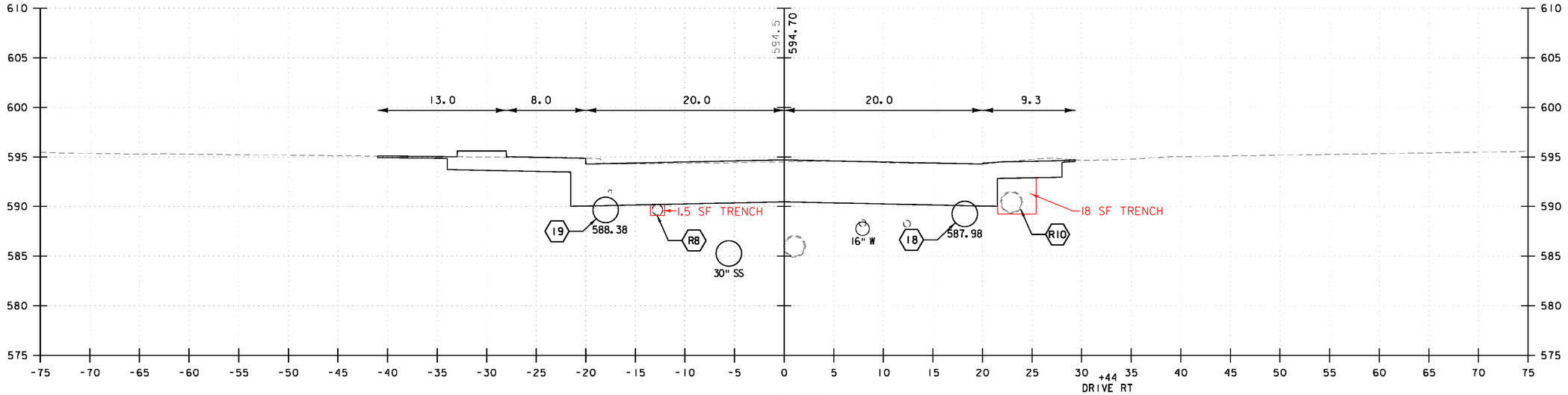
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

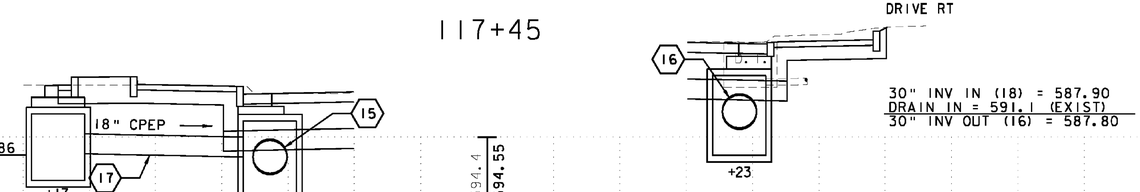
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PROJECT NUMBER: FEGC F 026-1(34) C/2

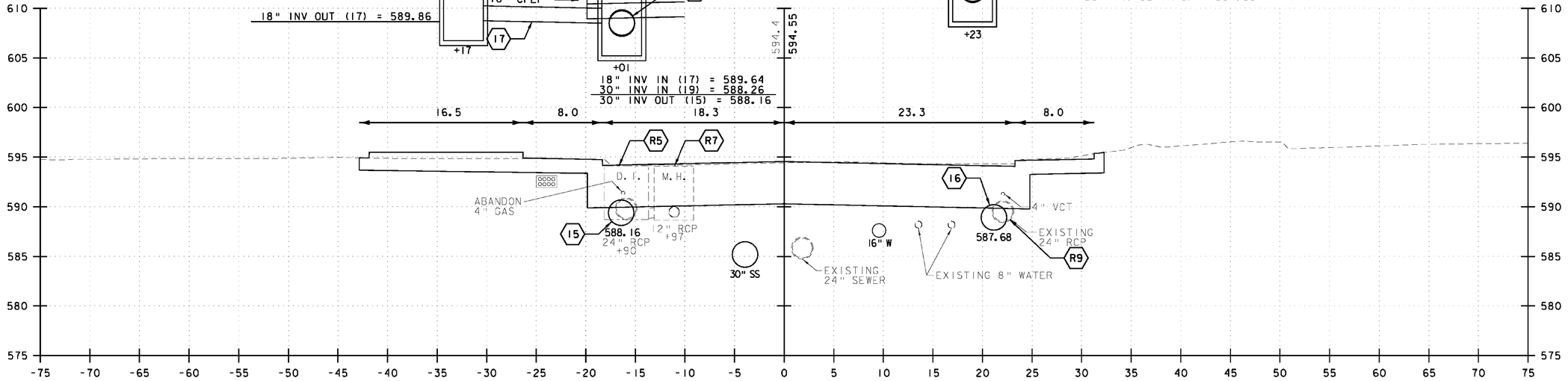
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PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 240 OF 339



117+45





117+00

SUBBASE ~ 2.00' X 44.6'= 89.2 SF
SAND BORROW ~ 1.50' X 44.6'= 66.9 SF

5 0 5 10
FEET

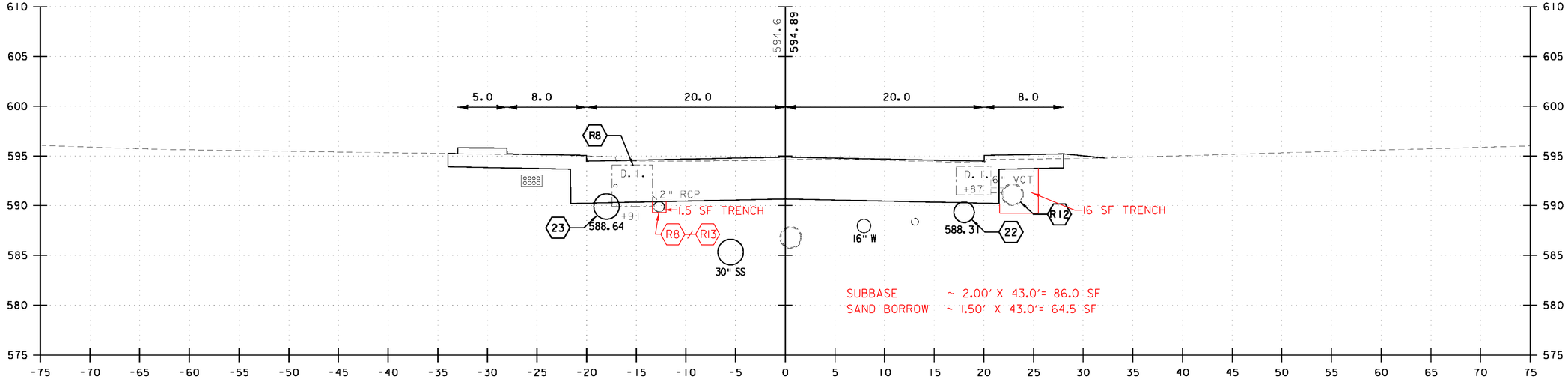
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

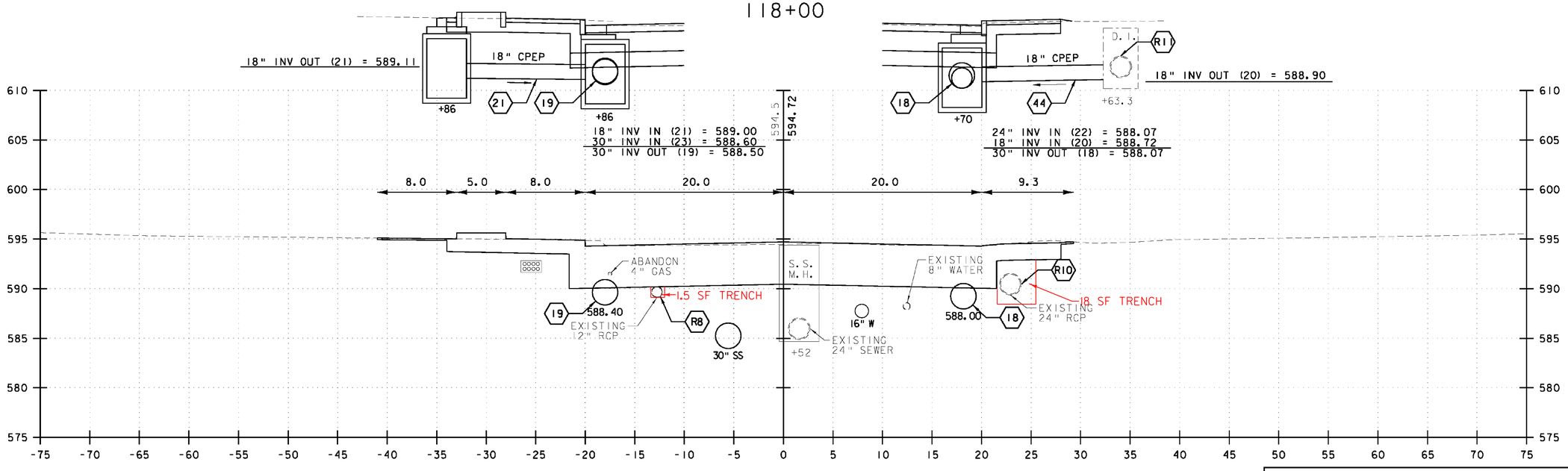
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 241 OF 339



118+00



117+50

SUBBASE ~ 2.00' X 43.0'= 86.0 SF
SAND BORROW ~ 1.50' X 43.0'= 64.5 SF

5 0 5 10
FEET

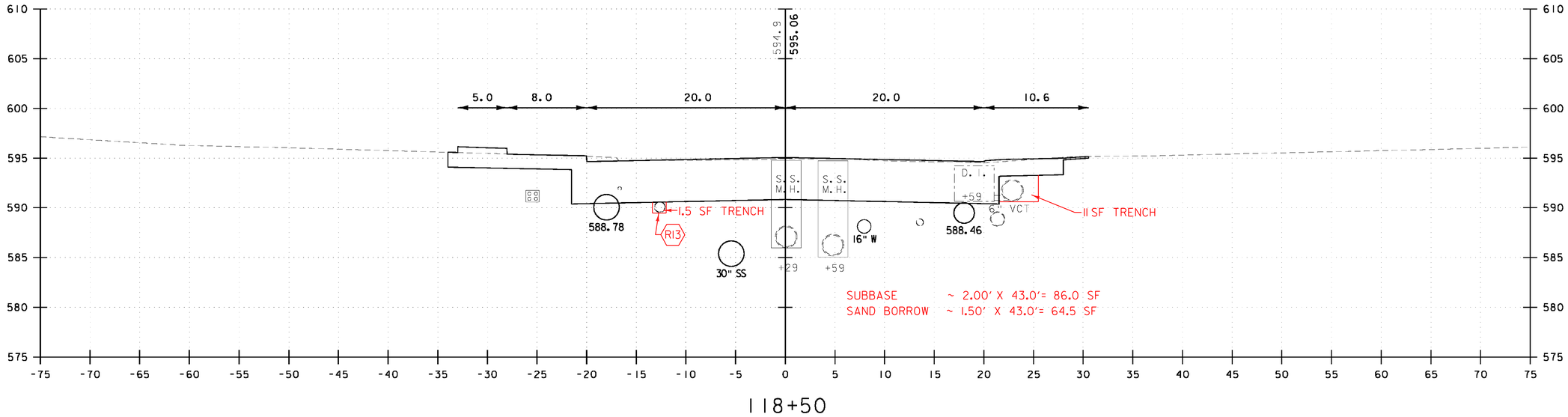
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

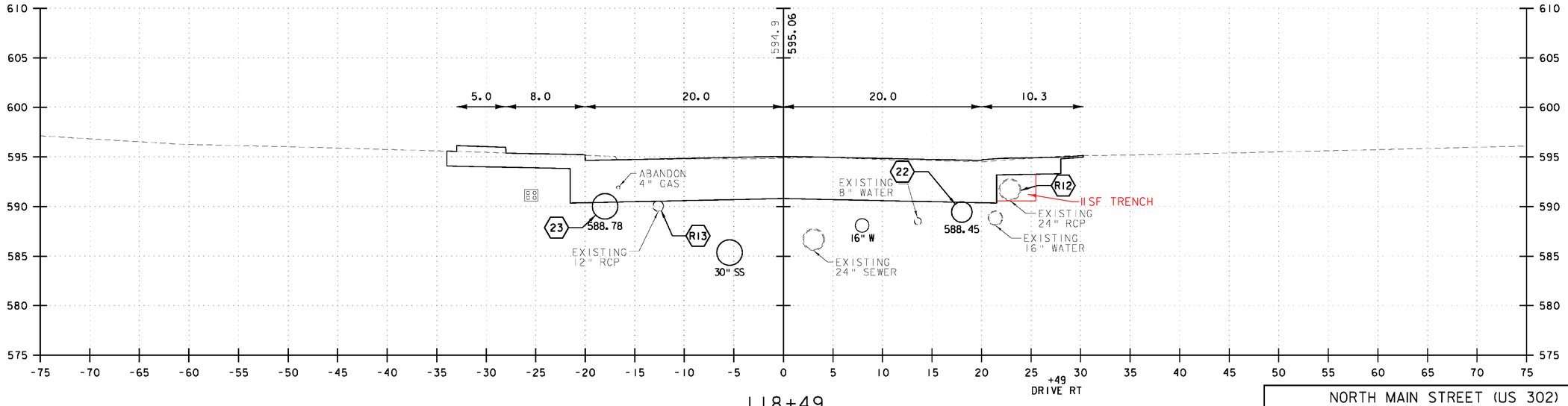
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 242 OF 339



118+50



118+49

5 0 5 10
FEET

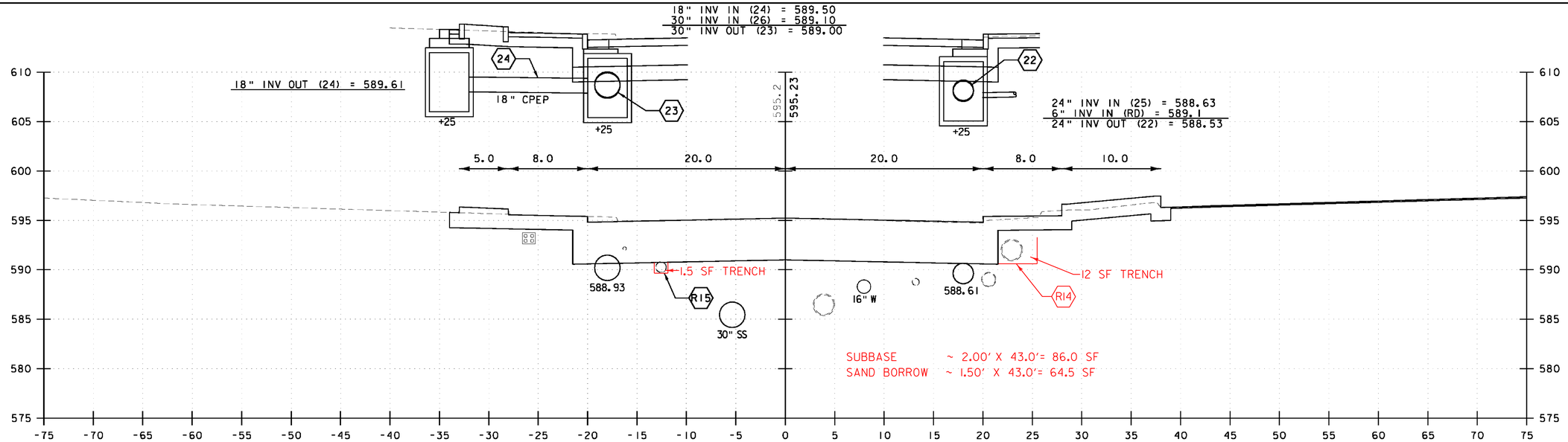
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

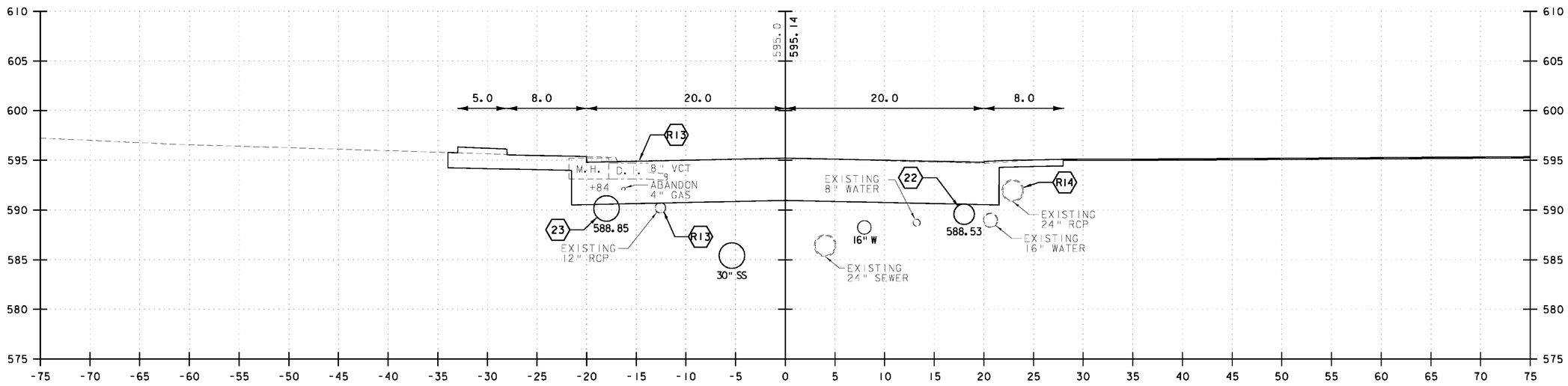
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PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 243 OF 339



119+00



118+74

5 0 5 10
FEET

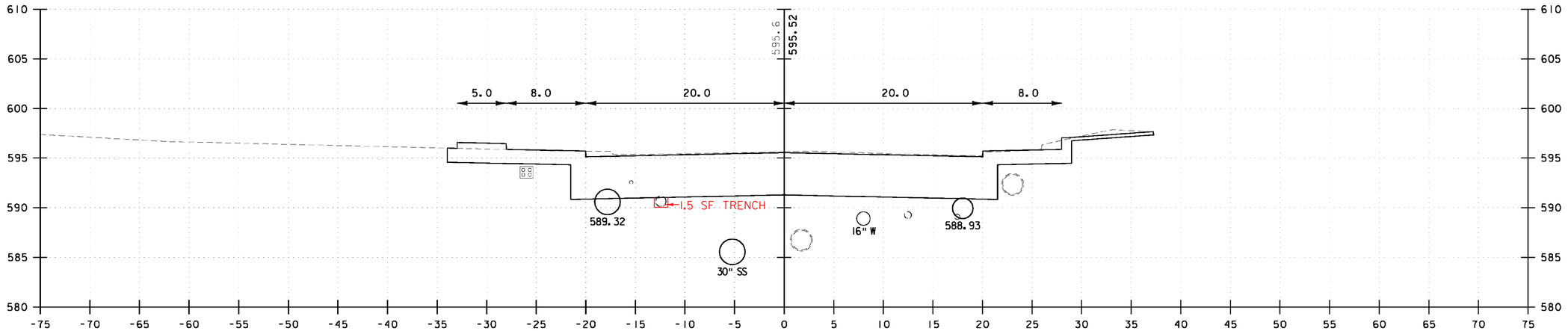
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

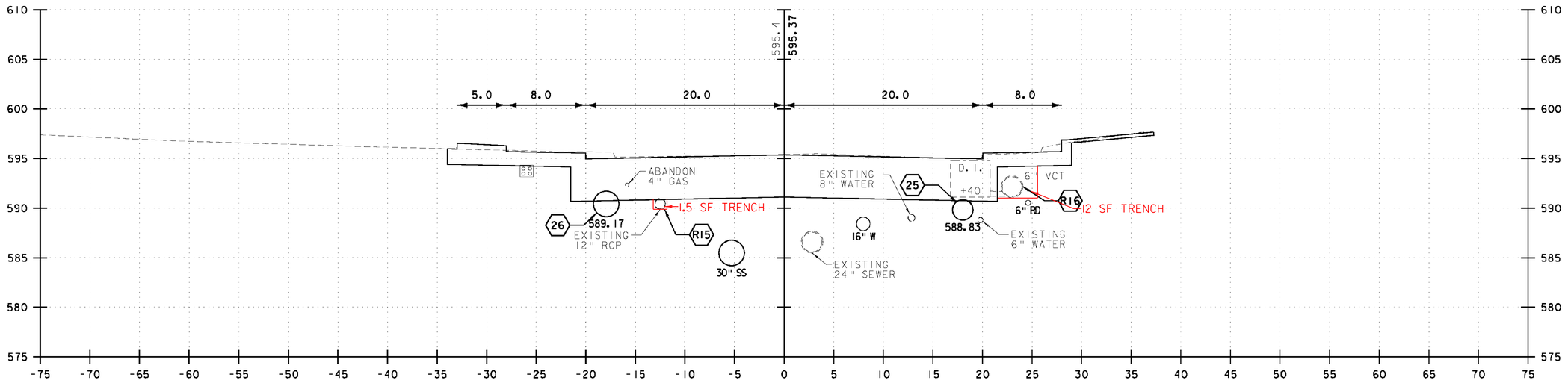
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PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 244 OF 339



120+00

SUBBASE ~ 2.00' X 43.0'= 86.0 SF
SAND BORROW ~ 1.50' X 43.0'= 64.5 SF



119+50

SUBBASE ~ 2.00' X 43.0'= 86.0 SF
SAND BORROW ~ 1.50' X 43.0'= 64.5 SF

5 0 5 10
FEET

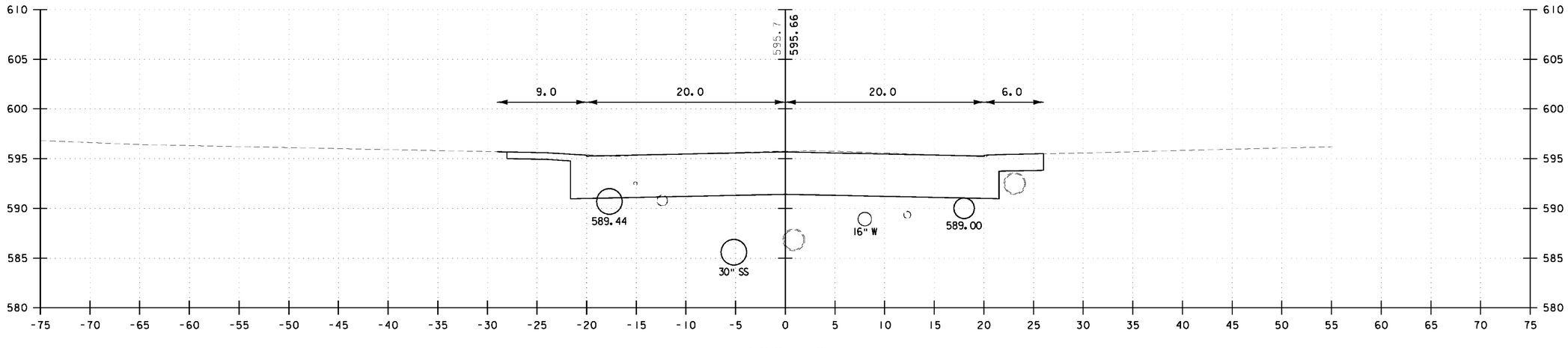
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

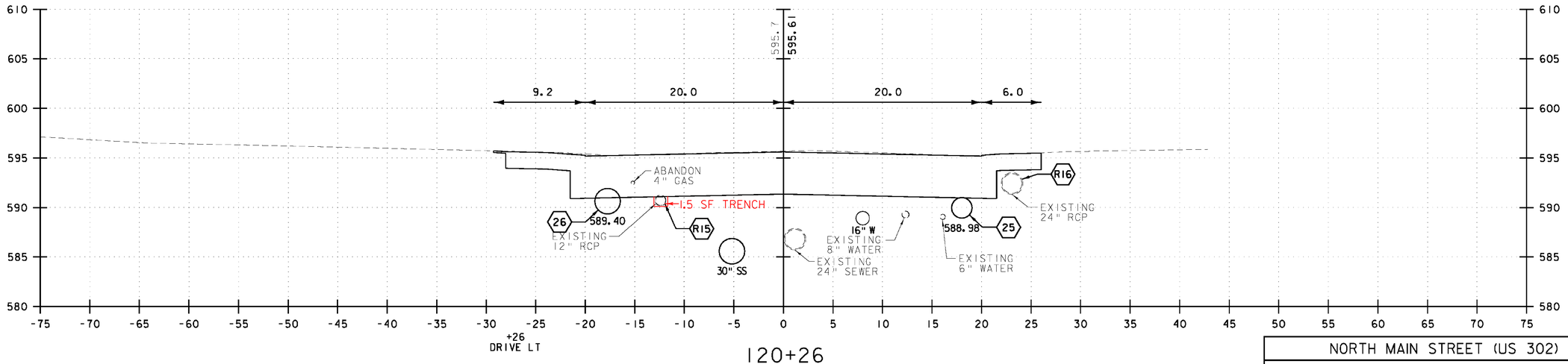
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 245 OF 339



120+40



120+26

5 0 5 10
FEET

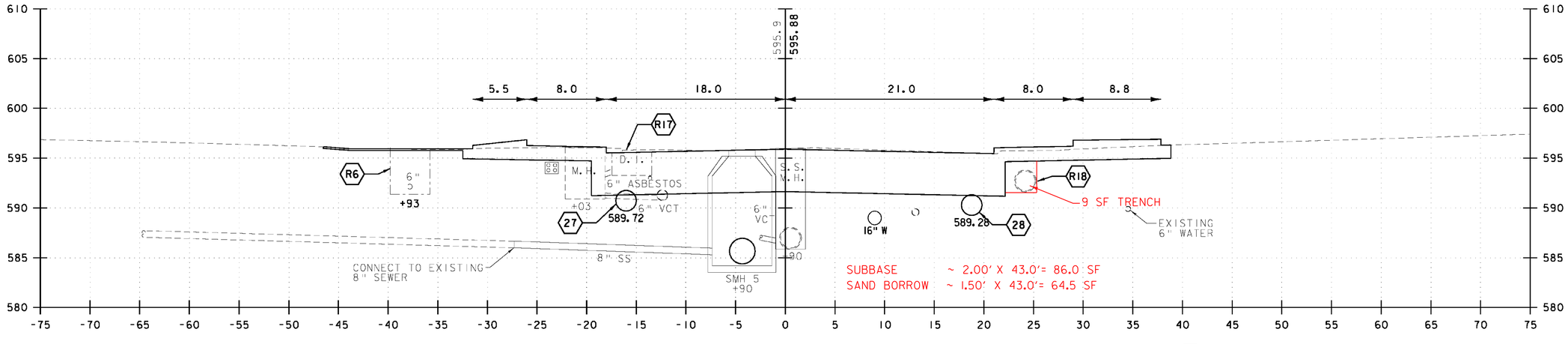
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

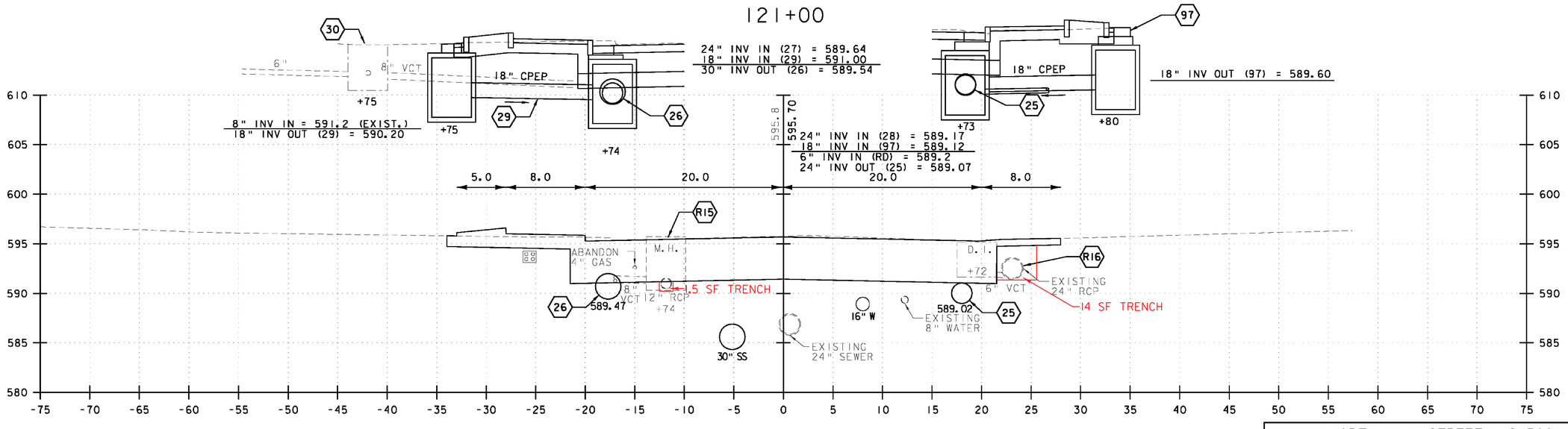
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 246 OF 339



121+00



120+50

SUBBASE ~ 2.00' X 43.0'= 86.0 SF
SAND BORROW ~ 1.50' X 43.0'= 64.5 SF

5 0 5 10
FEET

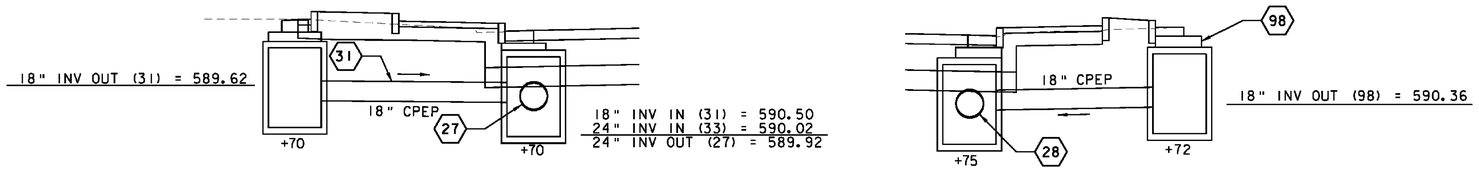
VHB Vanasse Hangen Brustlin, Inc.

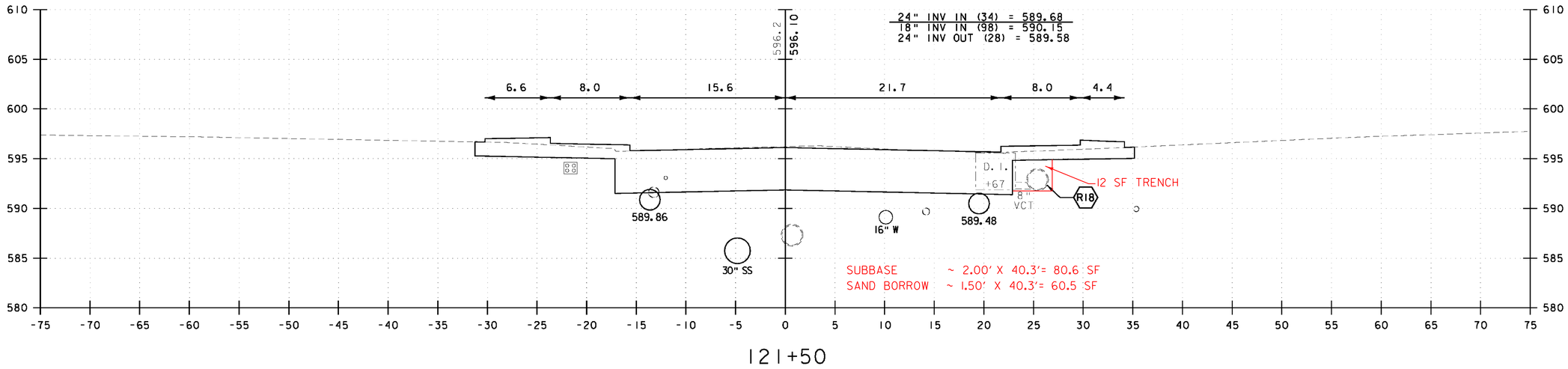
NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

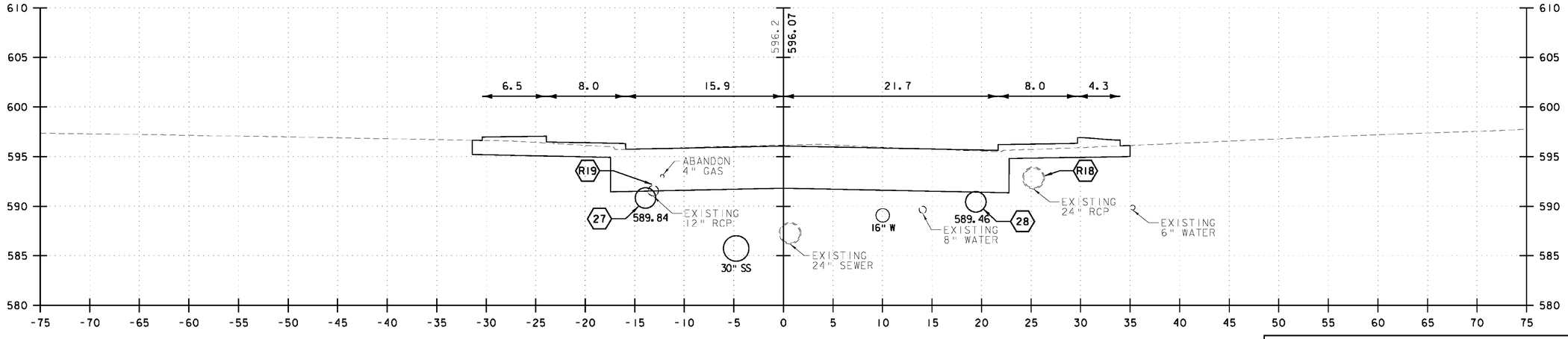
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PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 247 OF 339





121+50



121+44

5 0 5 10
FEET

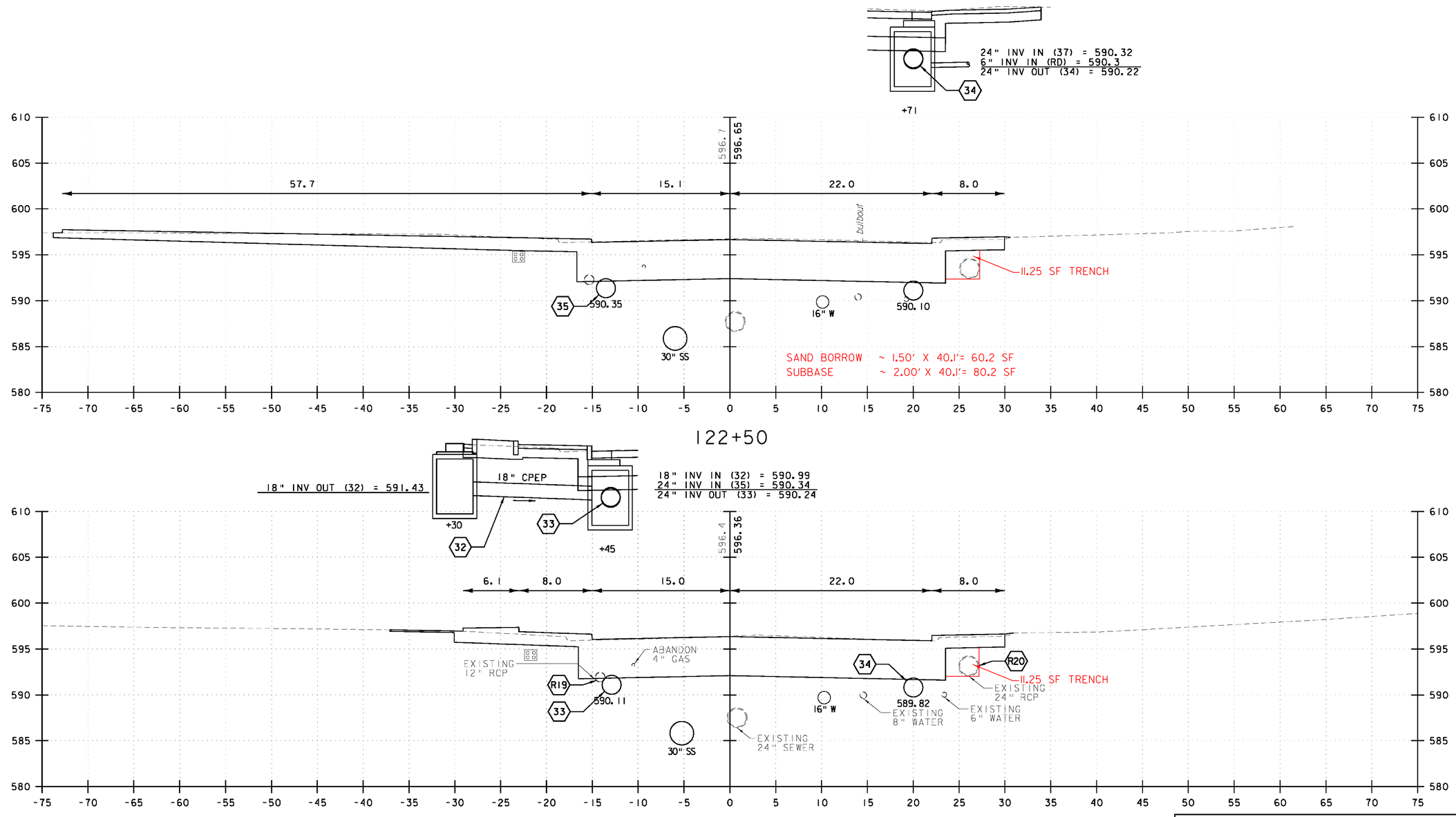
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 248 OF 339



VHB Vanasse Hangen Brustlin, Inc.

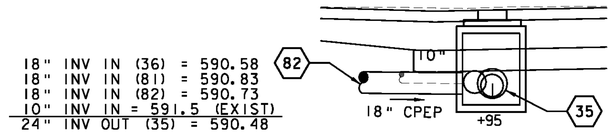
NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY

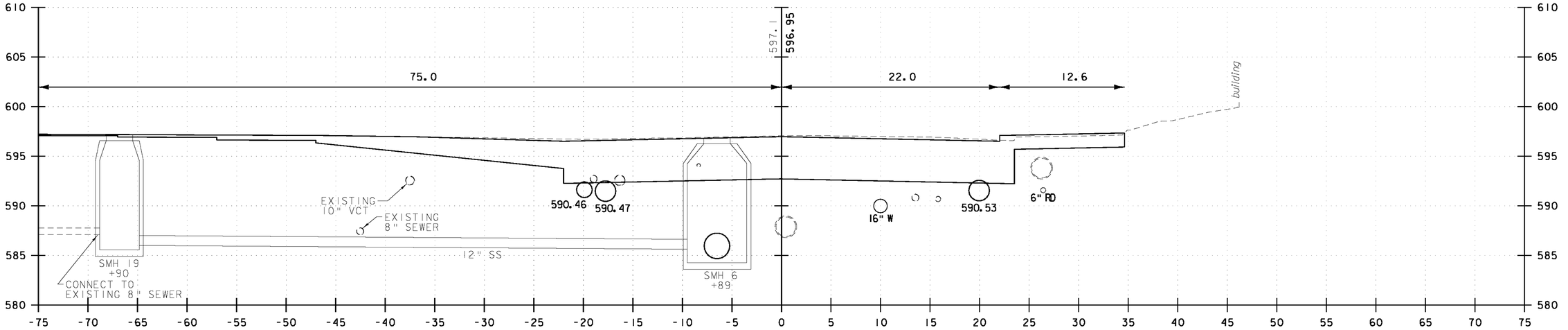
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

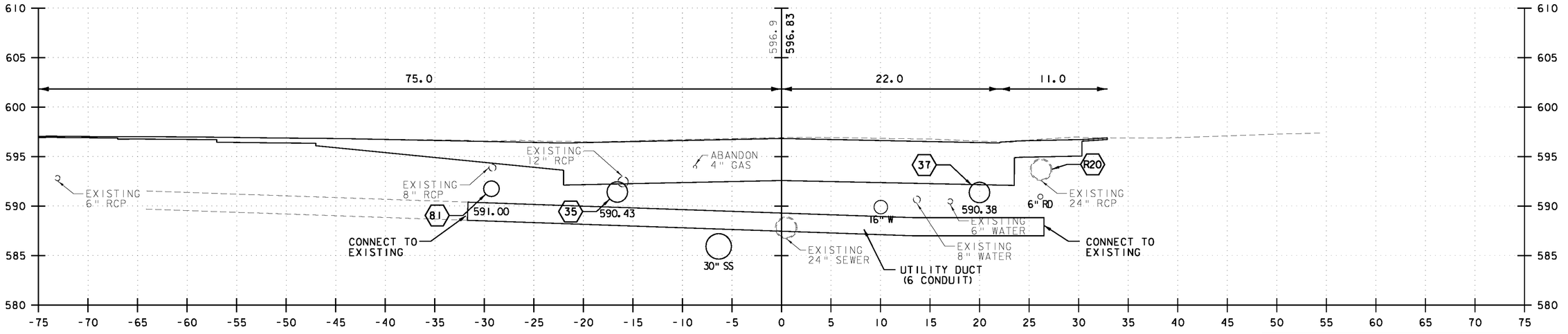
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 249 OF 339



18" INV IN (36) = 590.58
18" INV IN (81) = 590.83
18" INV IN (82) = 590.73
10" INV IN = 591.5 (EXIST)
24" INV OUT (35) = 590.48



122+92



122+77

+76
DRIVE RT

5 0 5 10
FEET

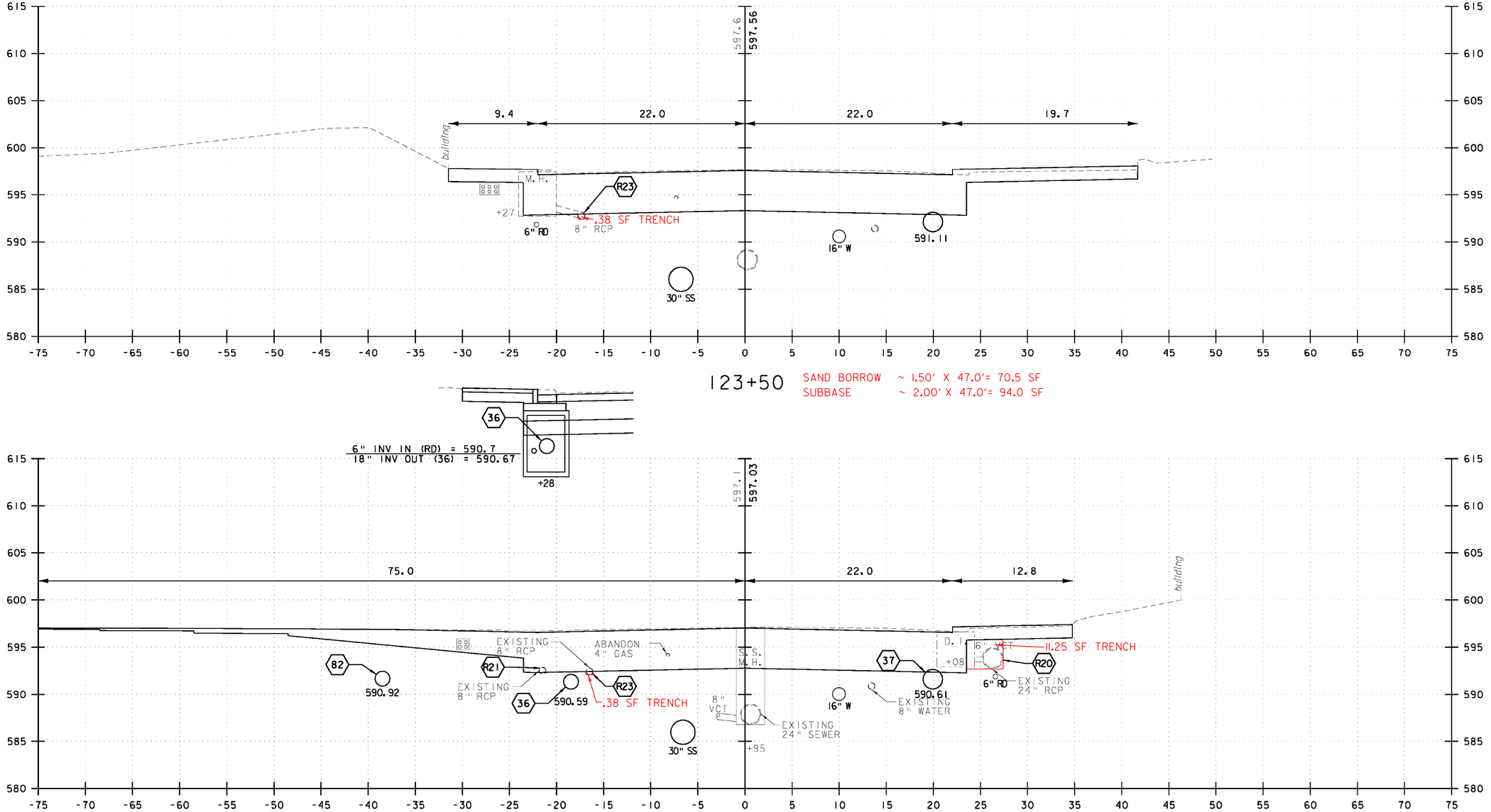
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 250 OF 339



123+50 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

123+00 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

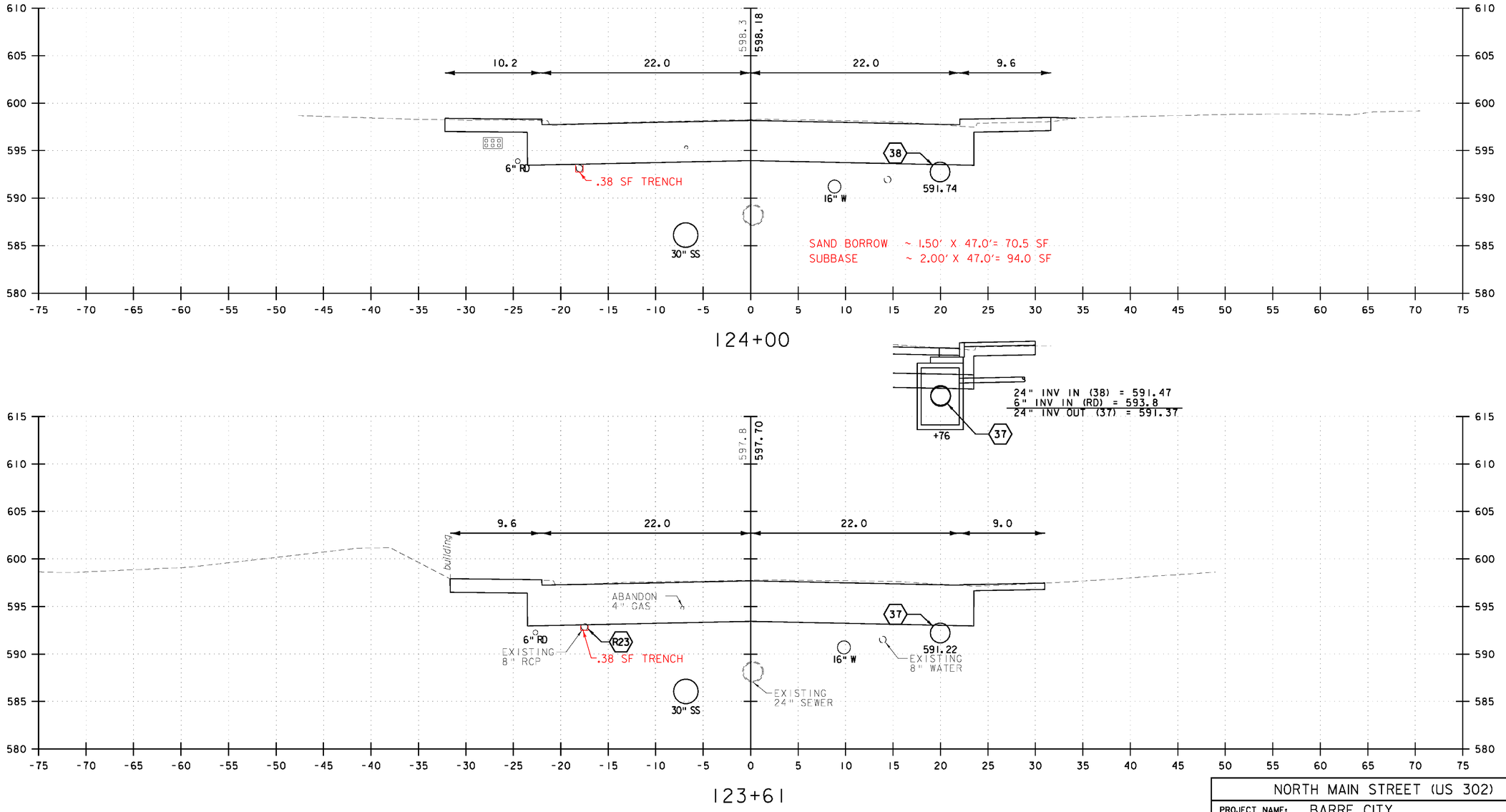
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 251 OF 339



124+00

123+61

5 0 5 10
FEET

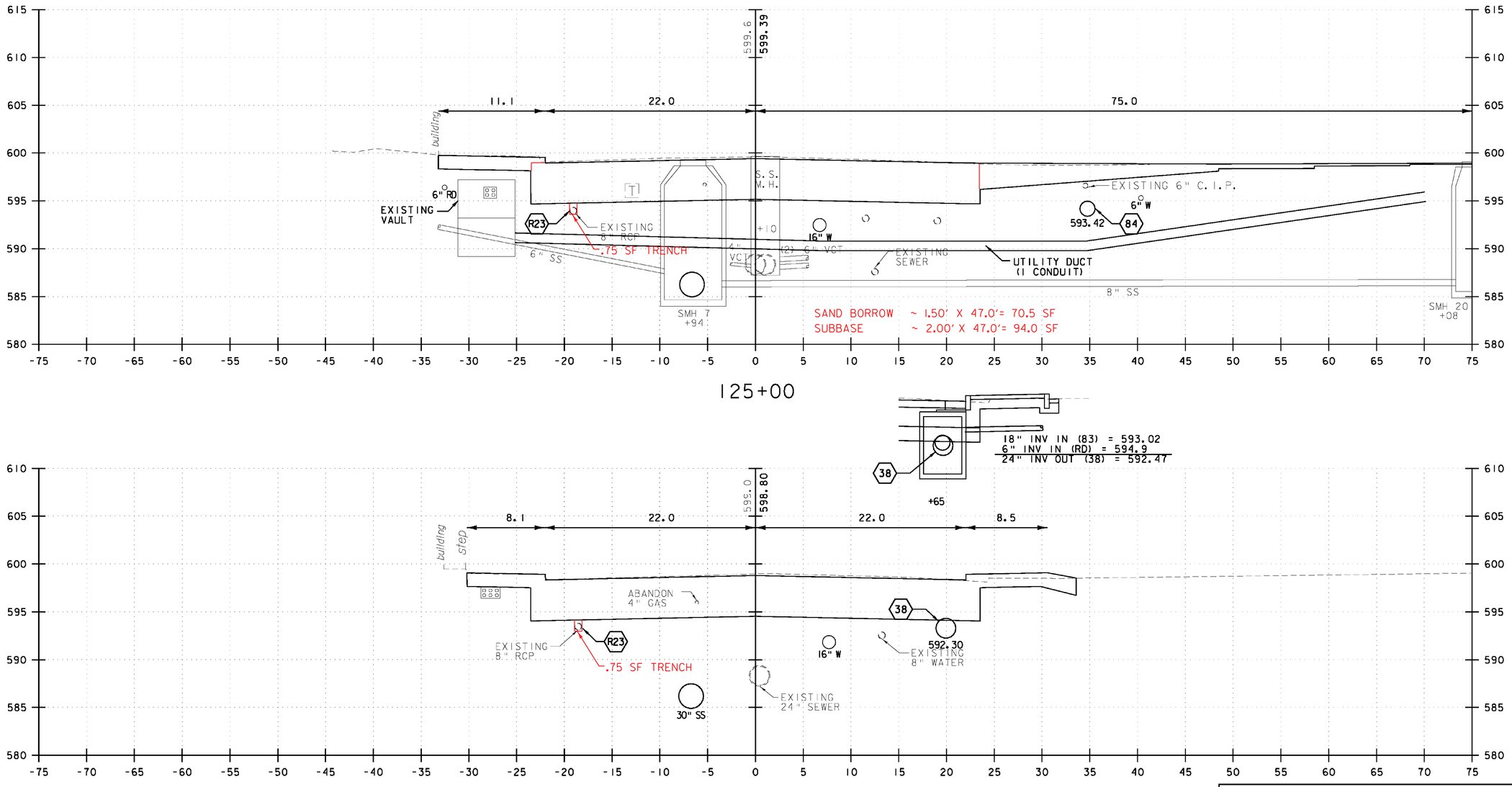
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 252 OF 339



5 0 5 10
FEET

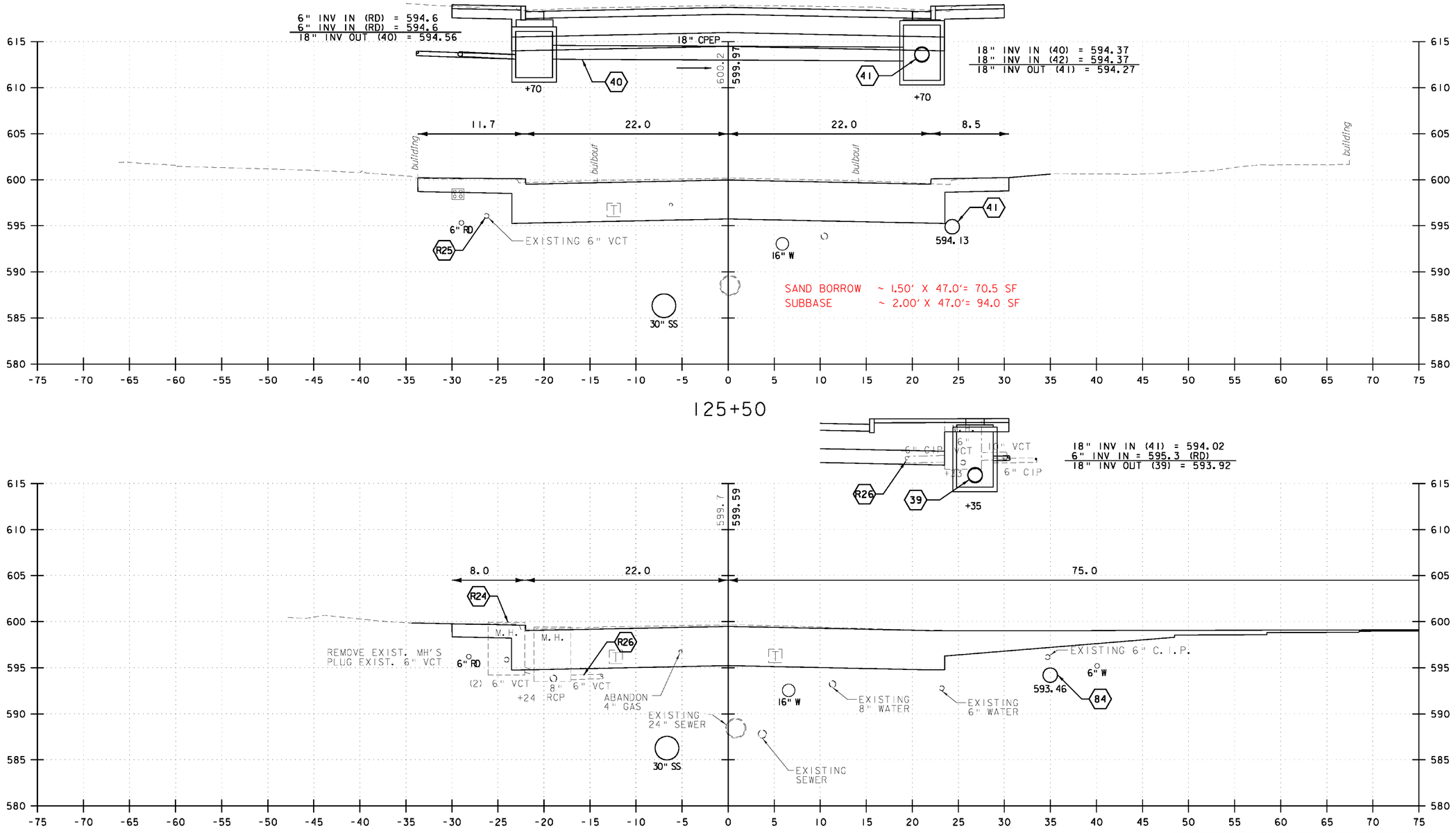
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 253 OF 339



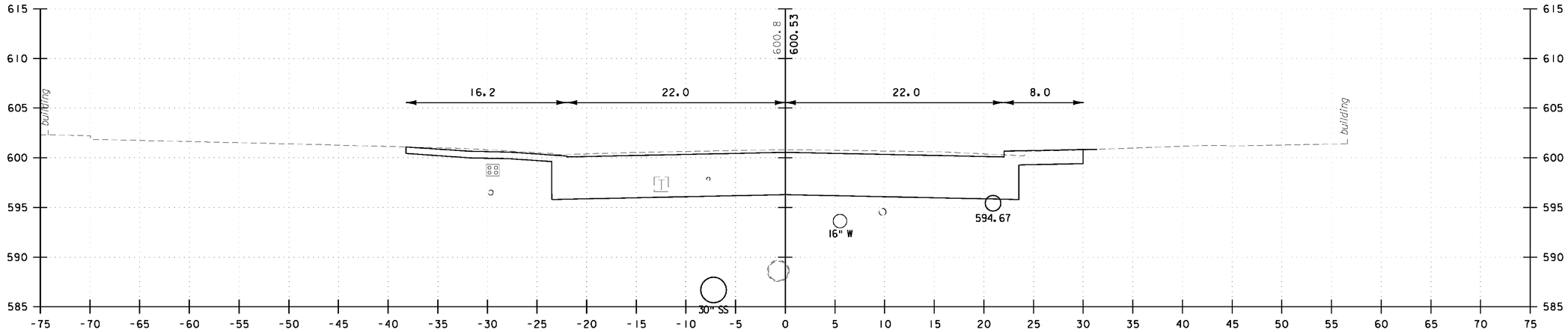
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

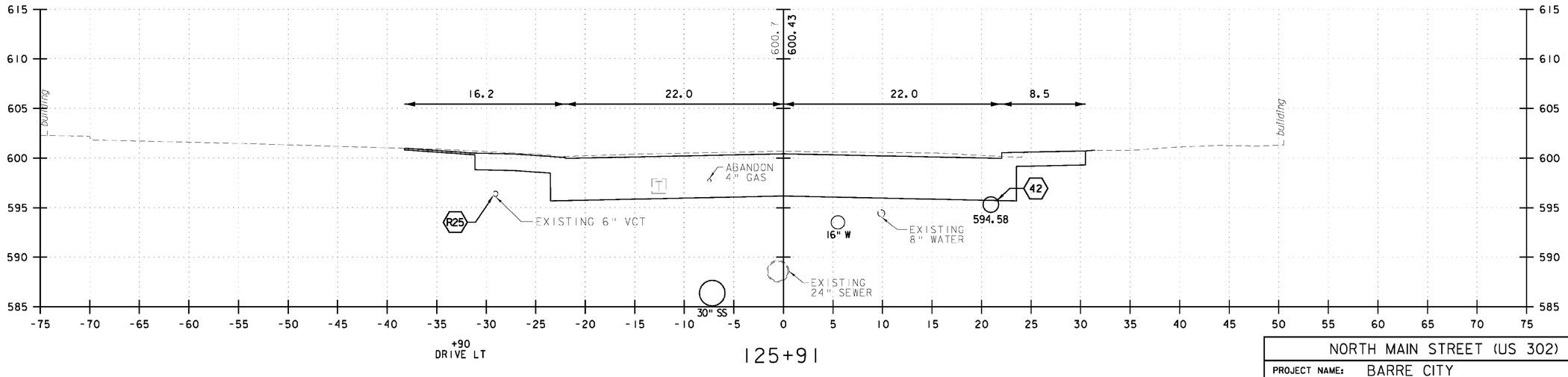
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 254 OF 339



126+00

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



+90
DRIVE LT

125+91

5 0 5 10
FEET

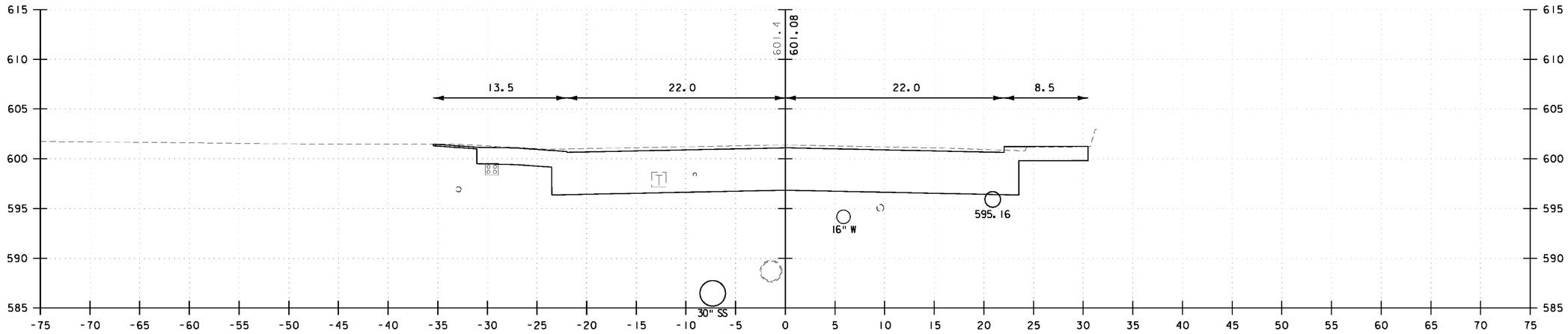
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

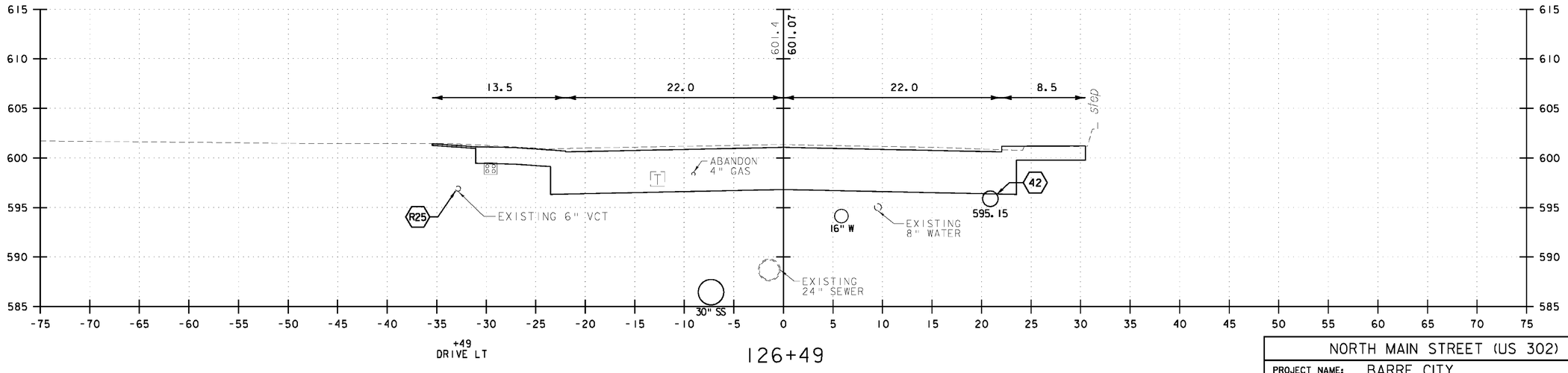
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 255 OF 339



126+50

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



+49
DRIVE LT

126+49

5 0 5 10
FEET

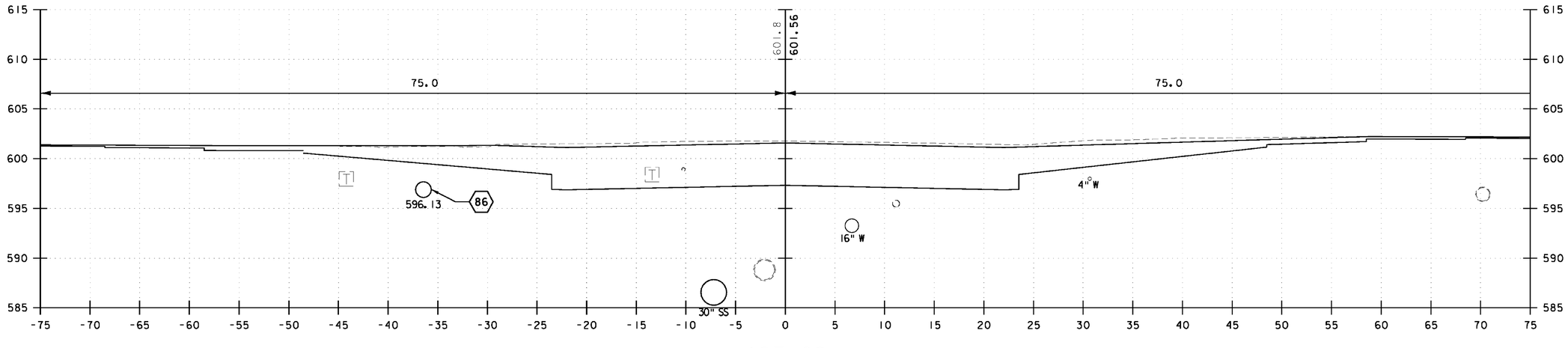
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

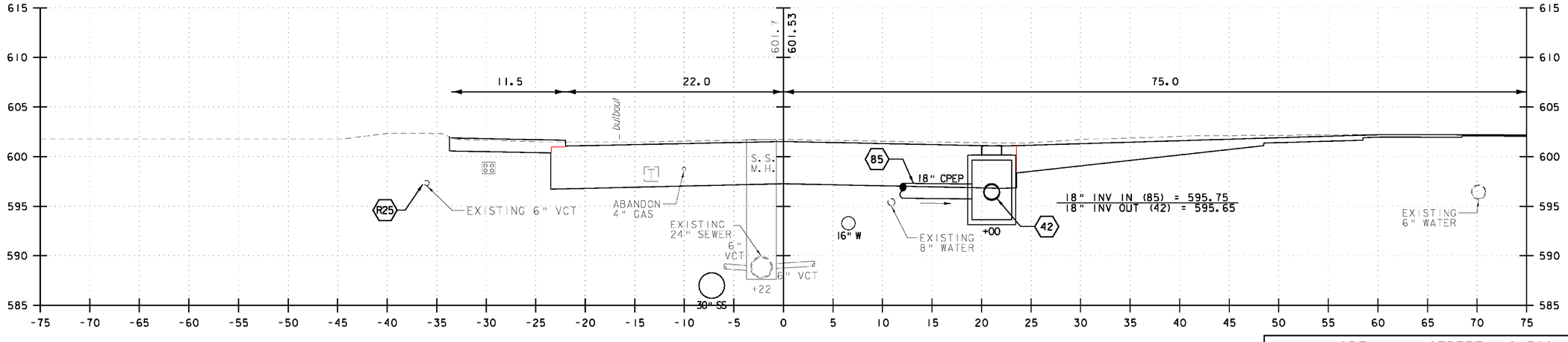
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 256 OF 339



127+09



127+00

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

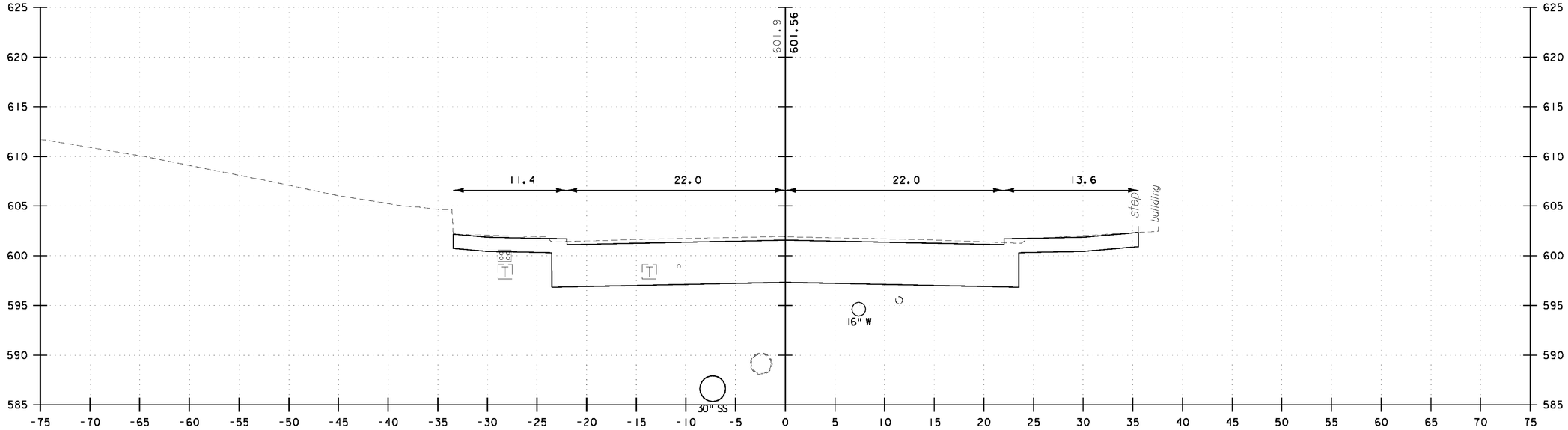
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

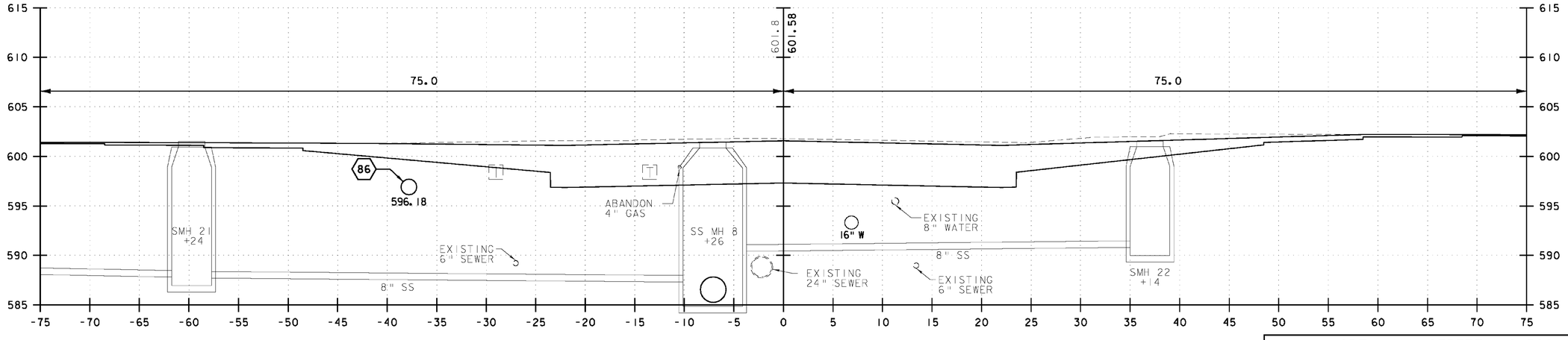
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 257 OF 339



127+50

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



127+19

5 0 5 10
FEET

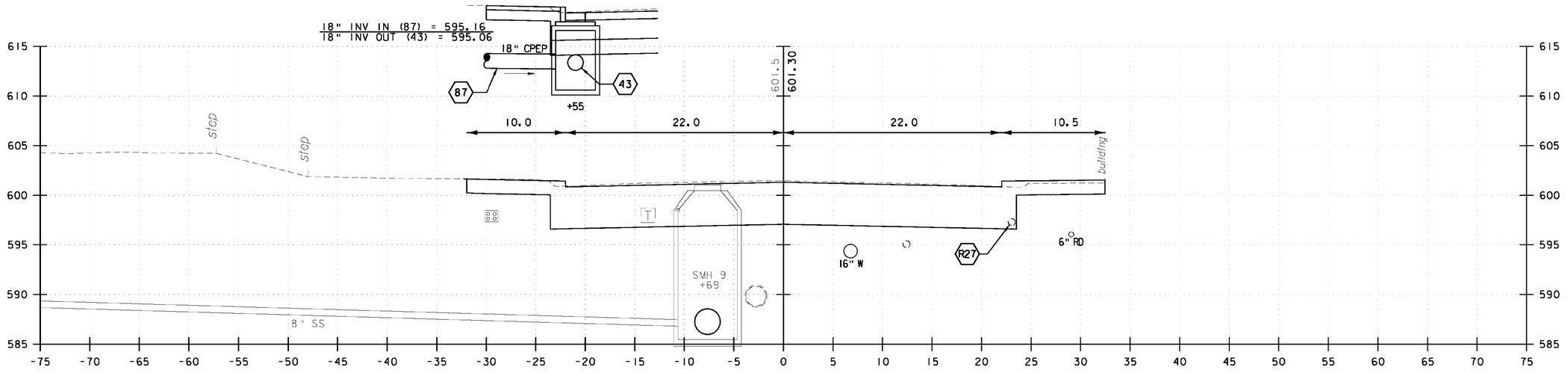
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

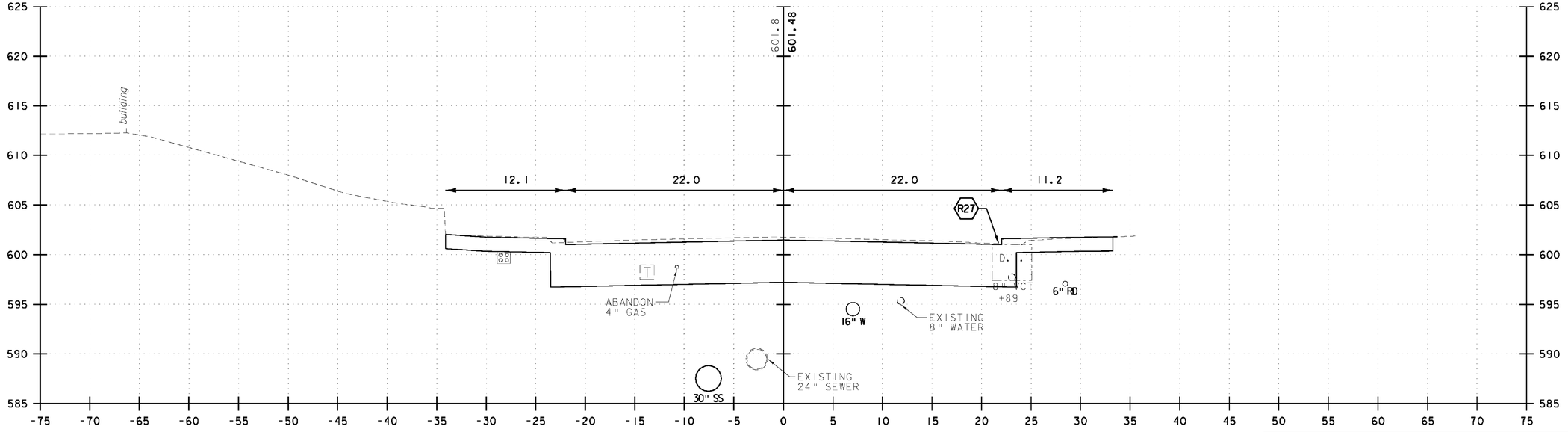
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 258 OF 339



128+50 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



128+00 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

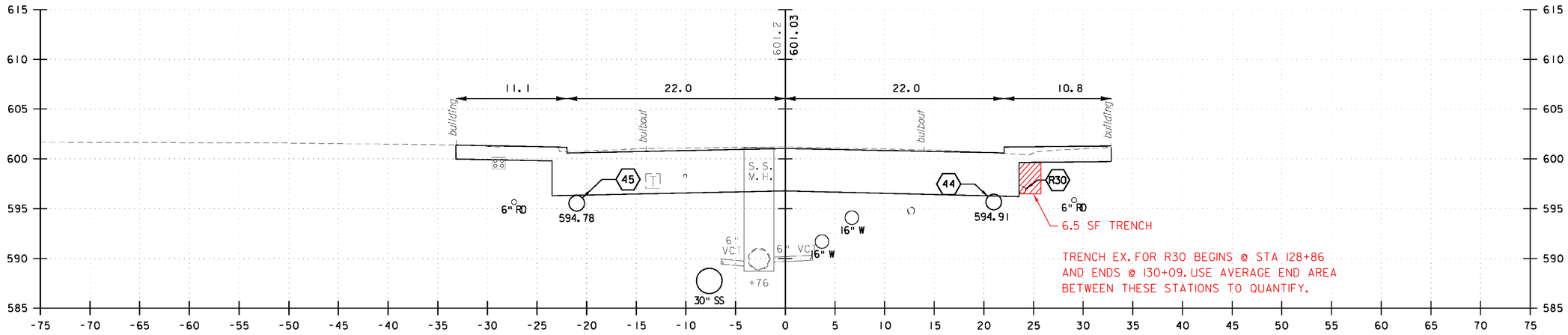
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

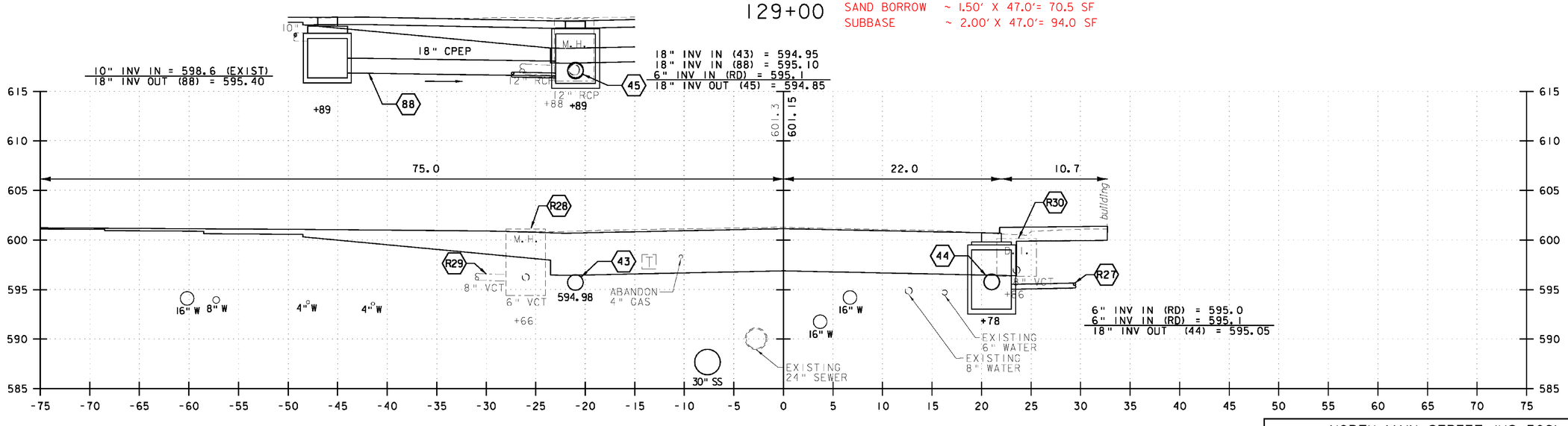
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 259 OF 339



129+00

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



128+79

5 0 5 10
FEET

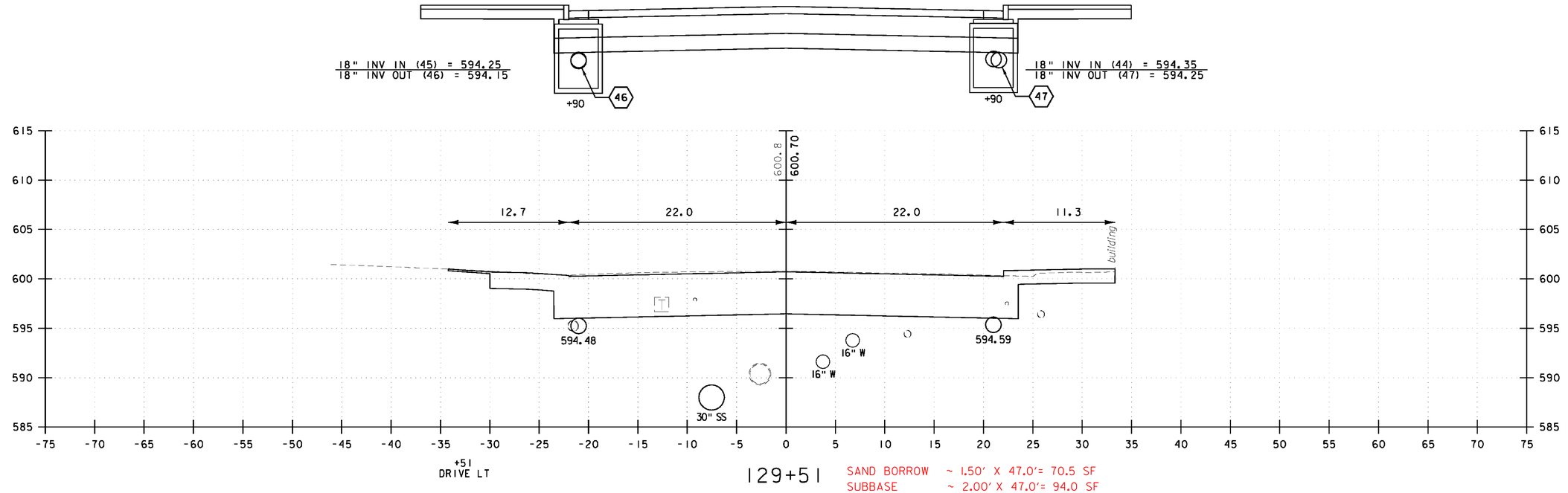
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

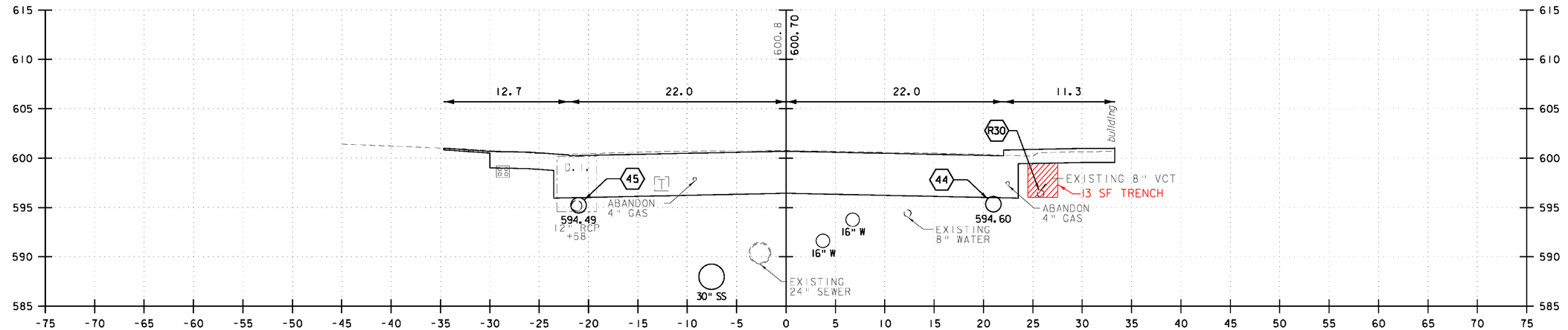
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 260 OF 339



129+51 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



129+50 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

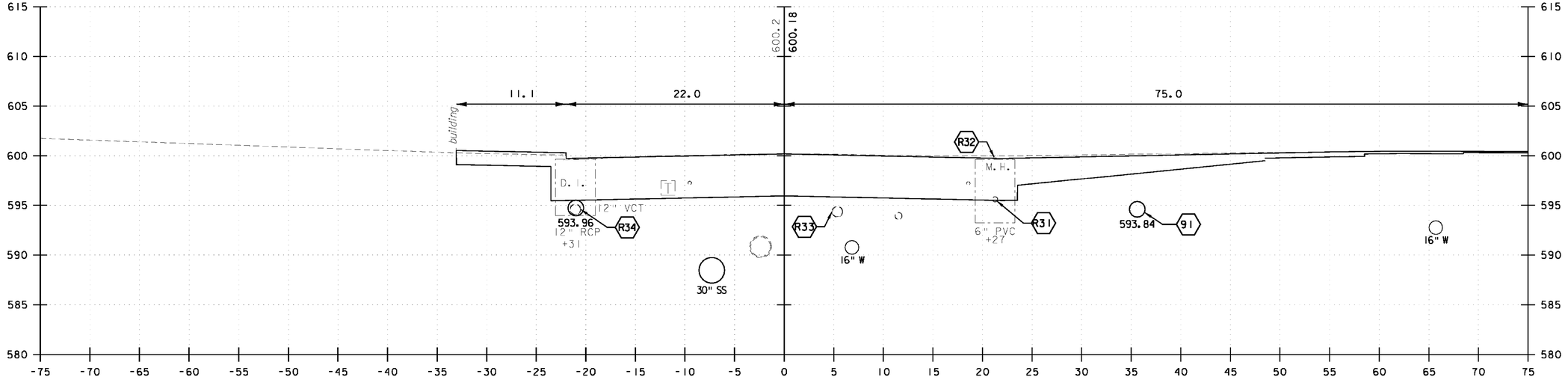
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

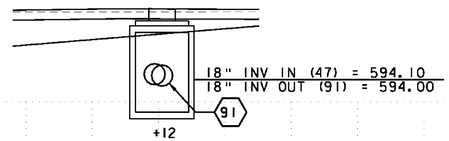
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

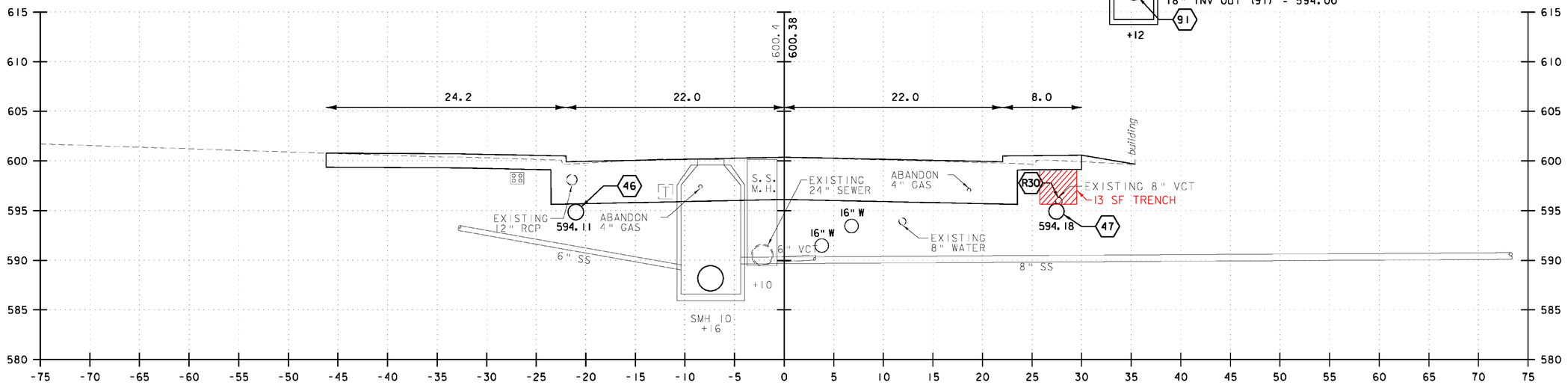
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 261 OF 339



130+39





130+00

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

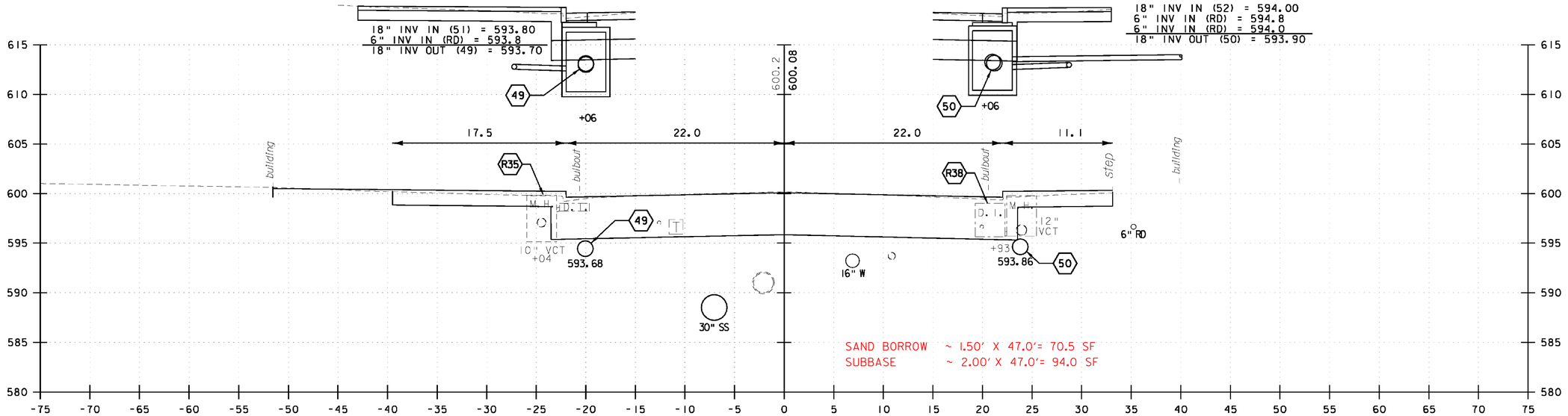
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

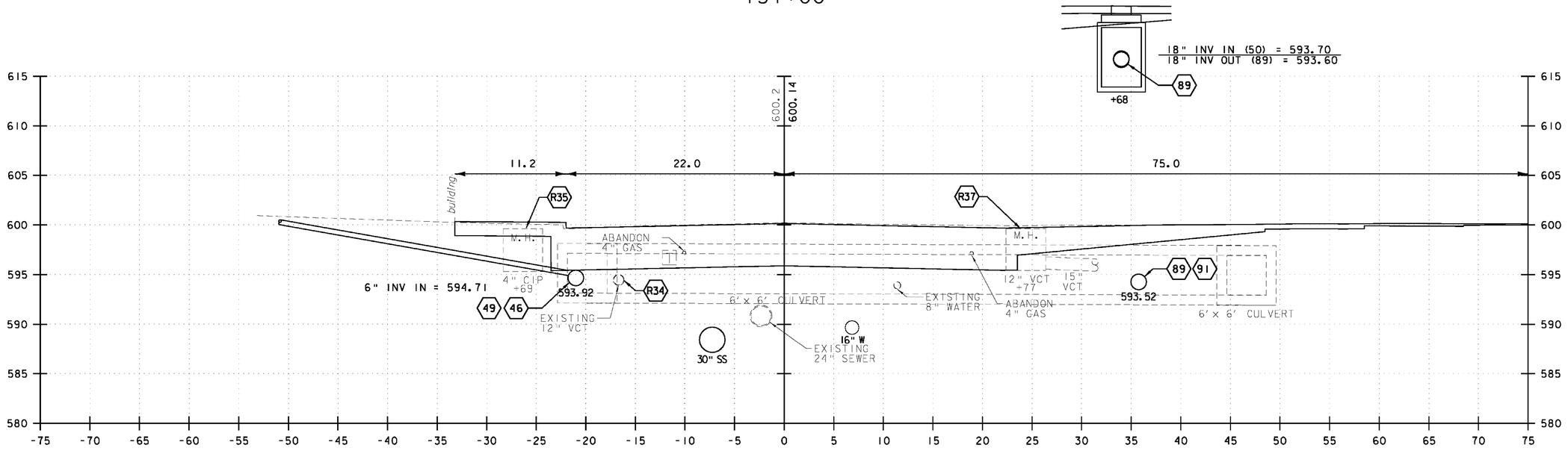
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 262 OF 339



131+00



130+50

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

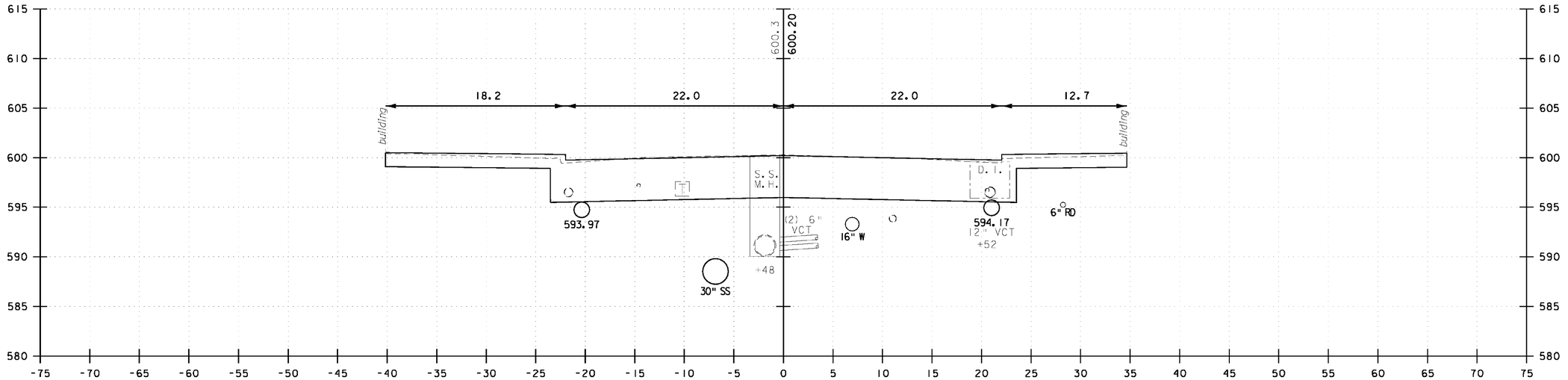
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

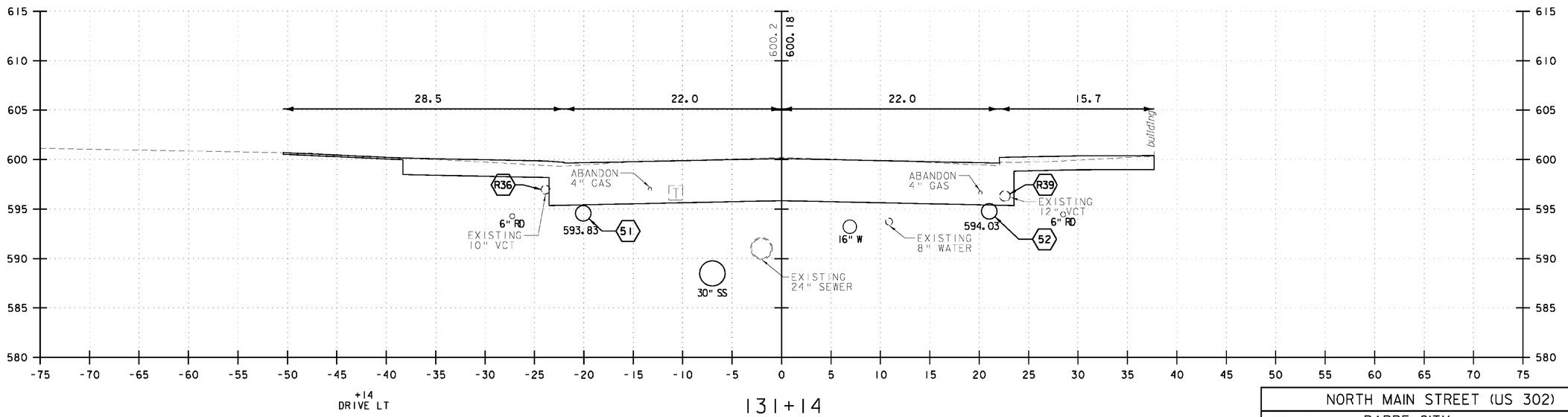
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 263 OF 339



131+50

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



+14
DRIVE LT

131+14

5 0 5 10
FEET

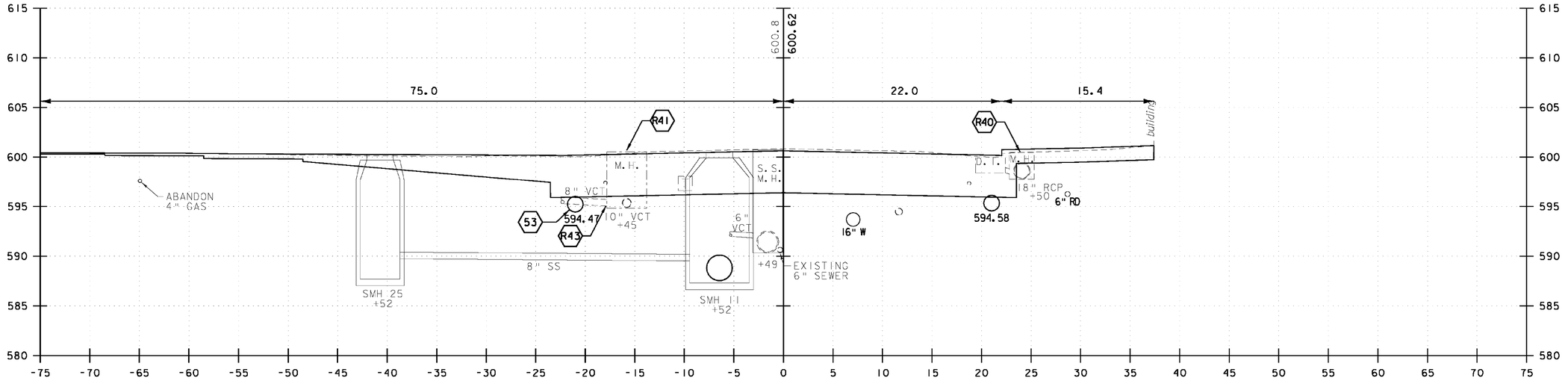
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

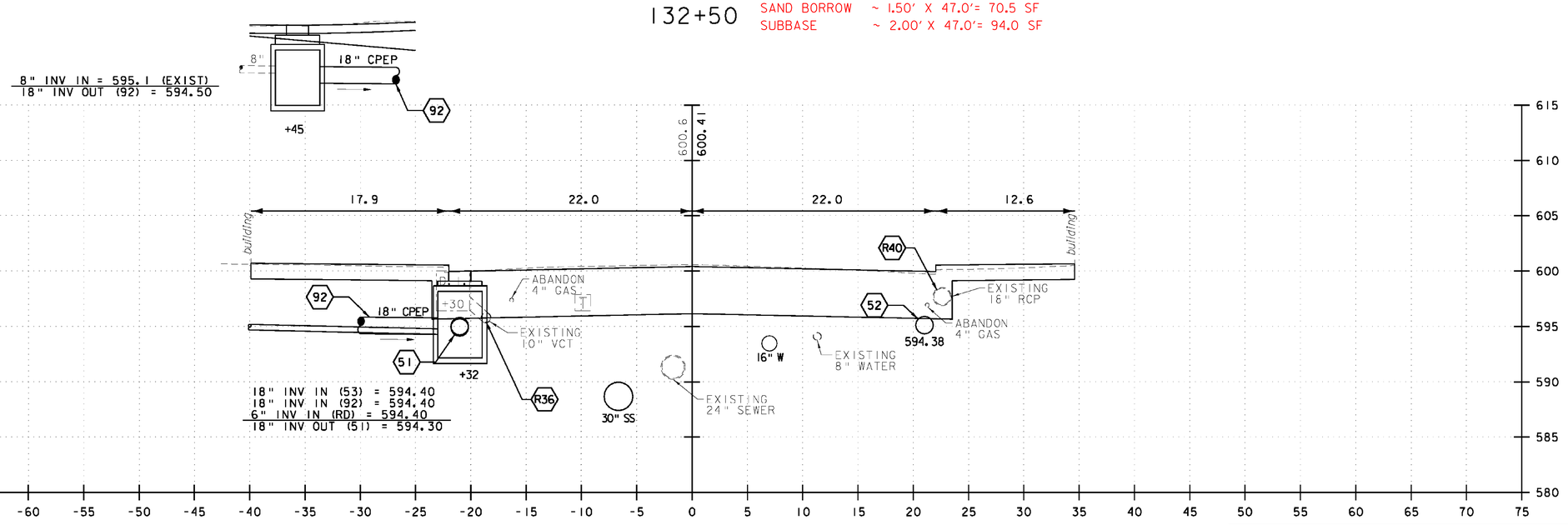
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 264 OF 339



132+50 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



132+00 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

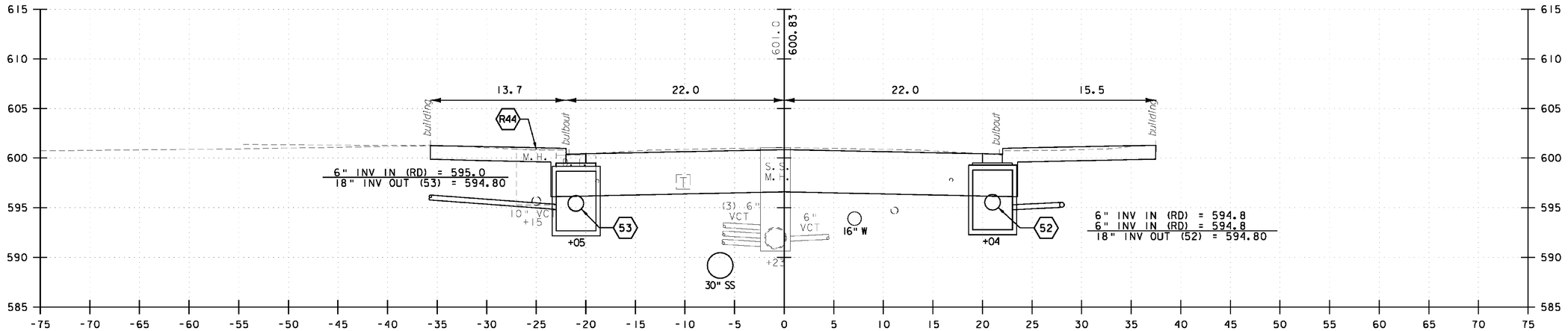
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

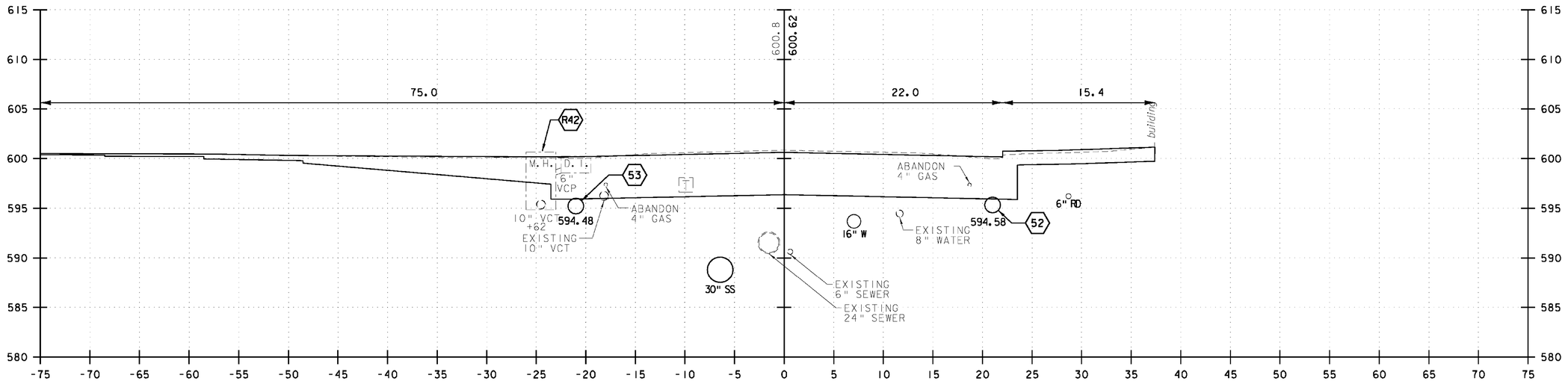
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 265 OF 339



133+00

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



132+51

5 0 5 10
FEET

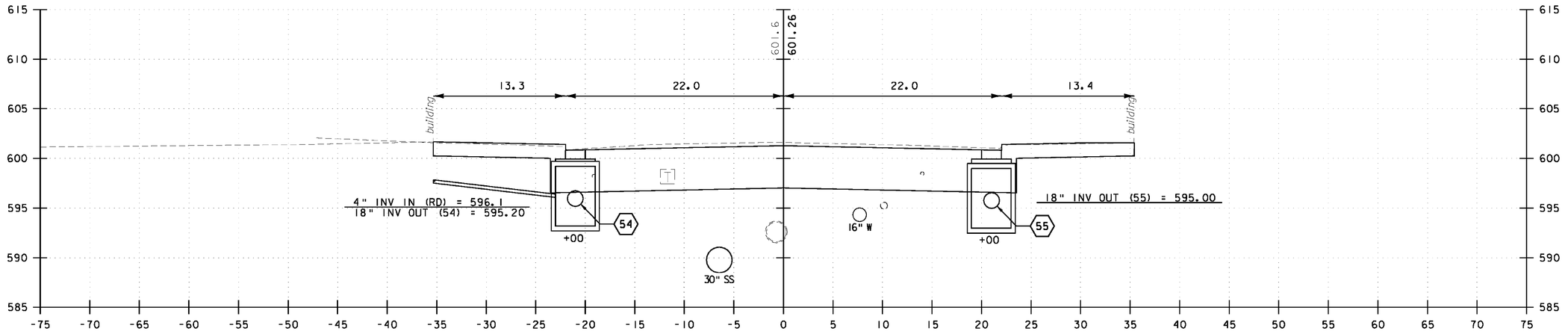
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

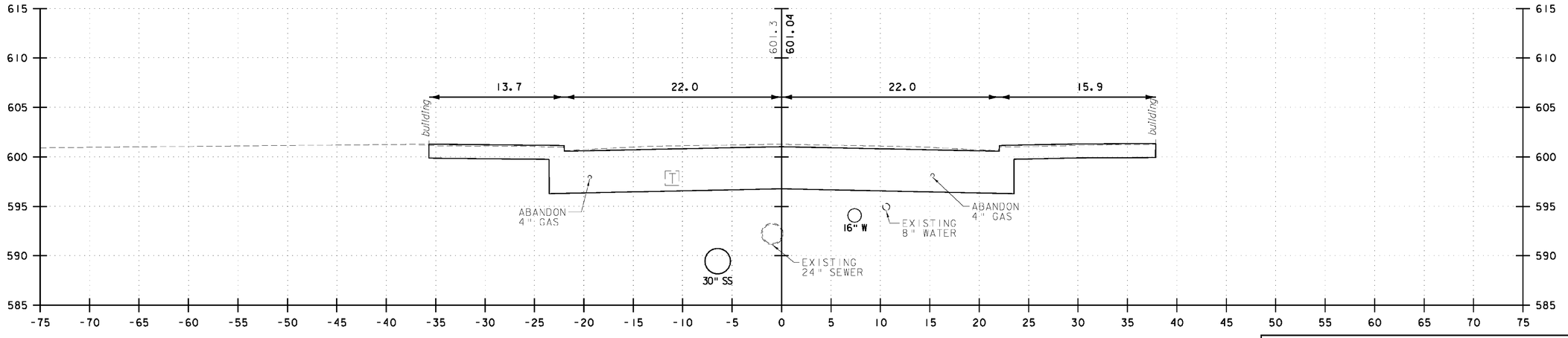
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 266 OF 339



134+00 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



133+50 SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

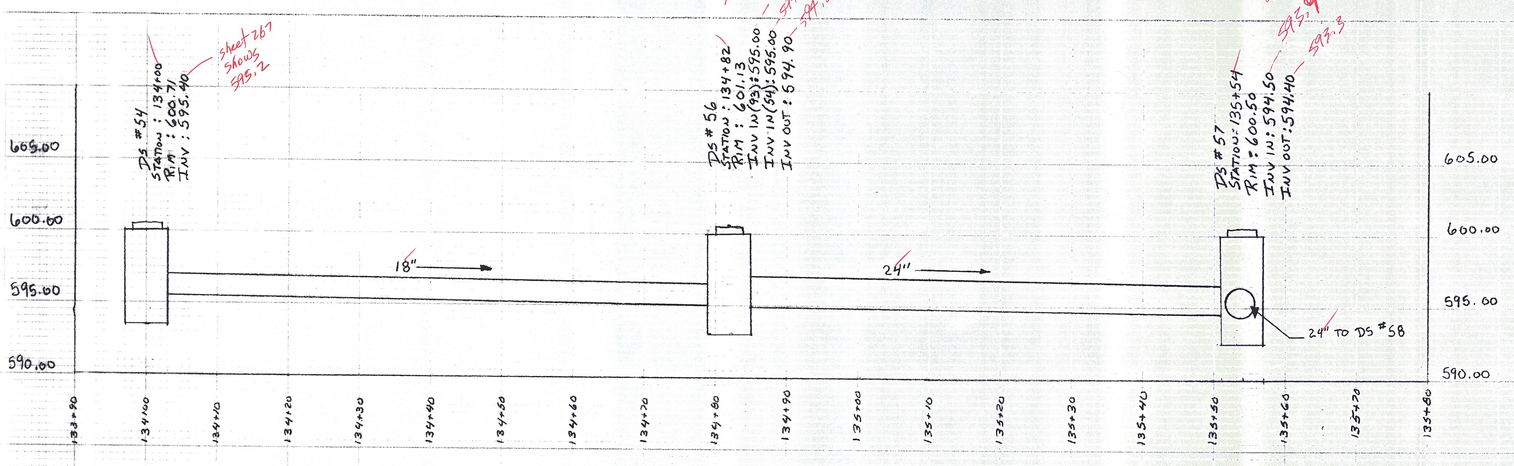
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

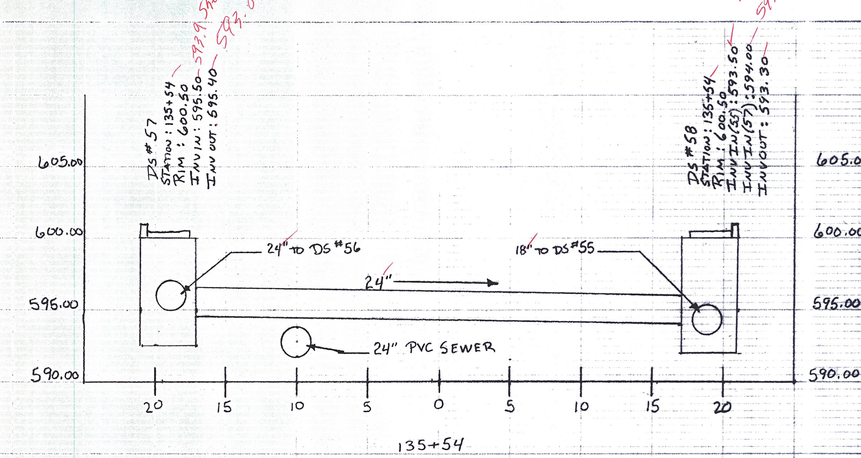
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

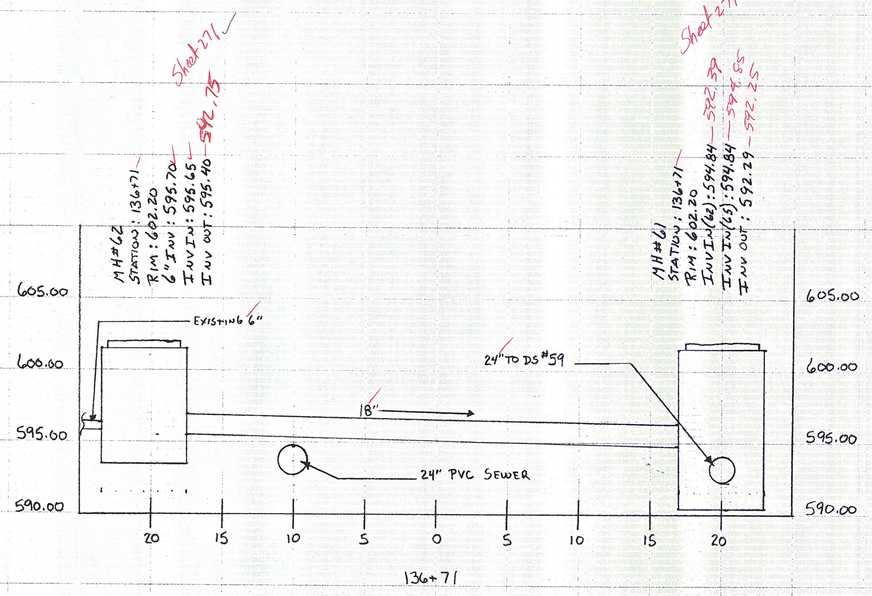
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 267 OF 339



DRAINAGE RUN (54) TO (57)

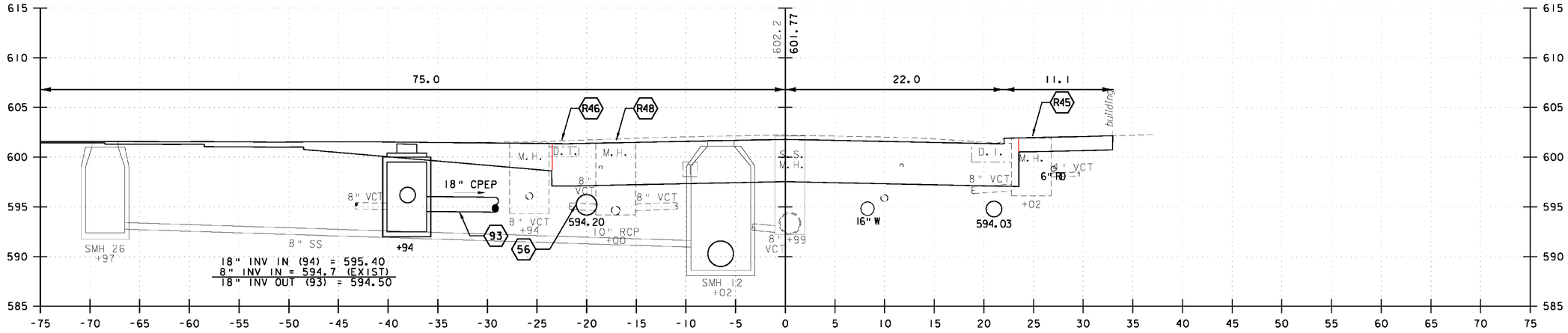


DRAINAGE X-ING (57) TO (58)



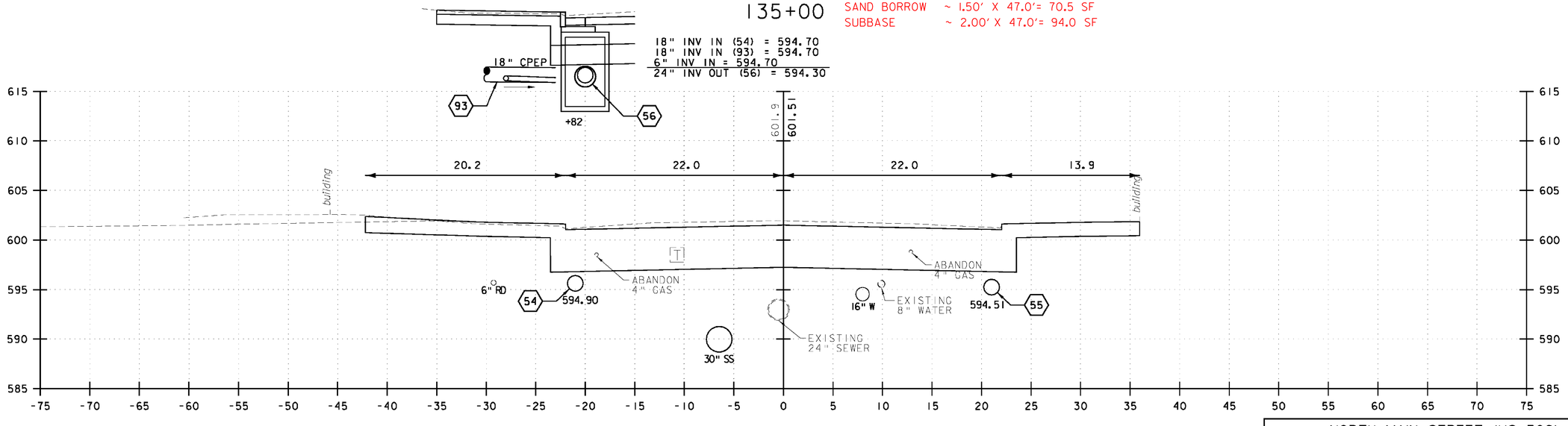
LUCK BROS. INC.	PROJECT NAME: BARRE CITY	NOTES / REVISIONS
	PROJECT NUMBER: FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
	FILE NAME: SAN PROFILES	
	MANAGER J. LUCK	
	DRAWN BY: C. KEMPNEY	

PROPOSED REDESIGN STORM SEWER PROFILES



135+00

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



134+50

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF

5 0 5 10
FEET

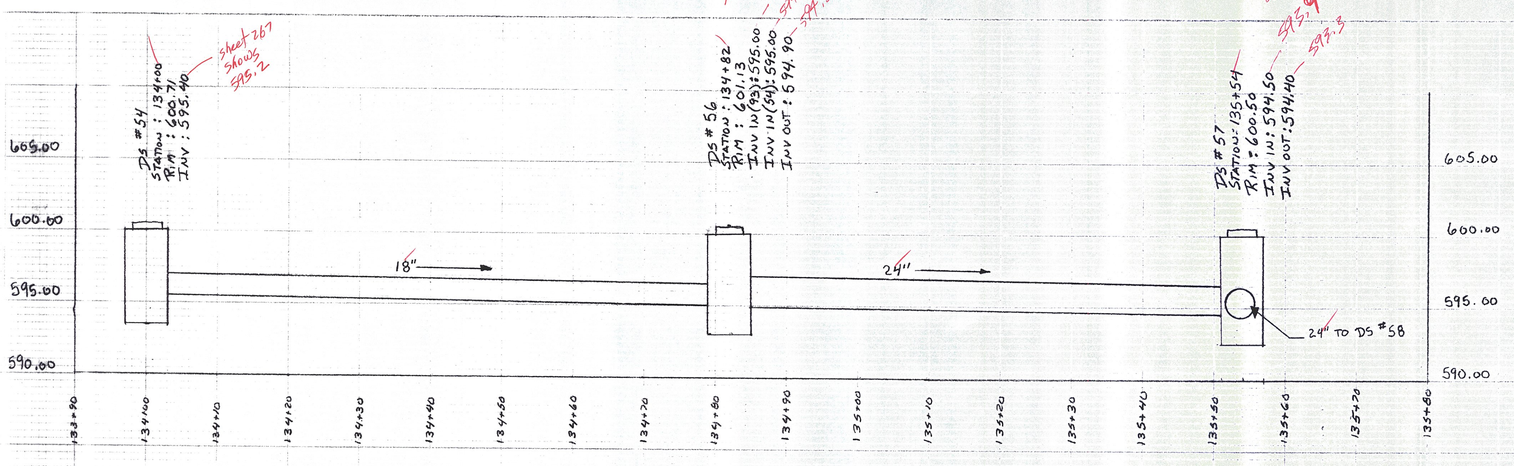
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

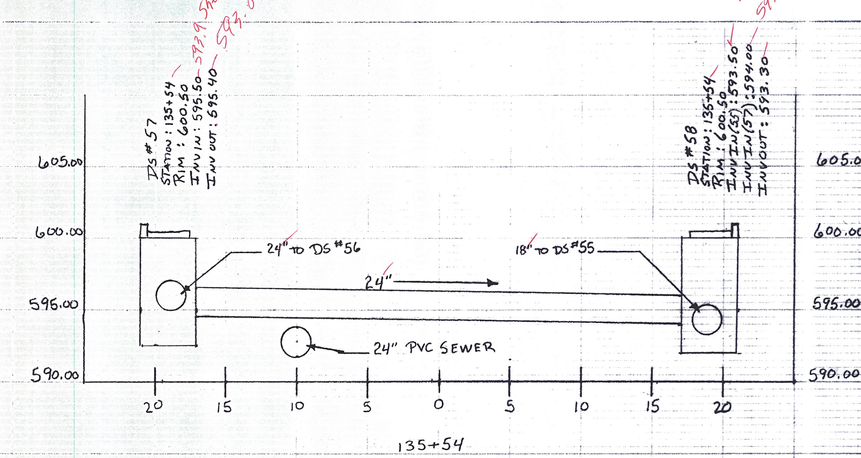
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

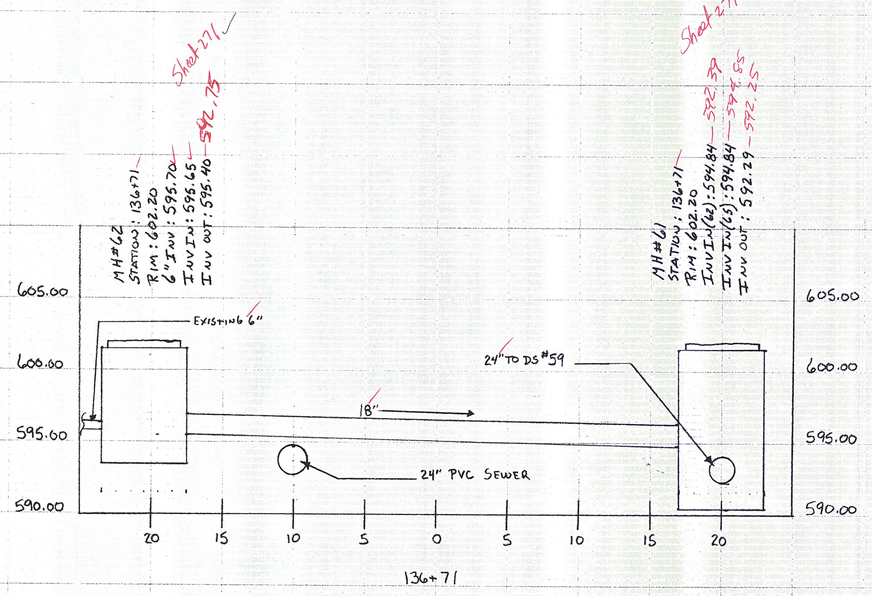
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 268 OF 339



DRAINAGE RUN (54) TO (57)

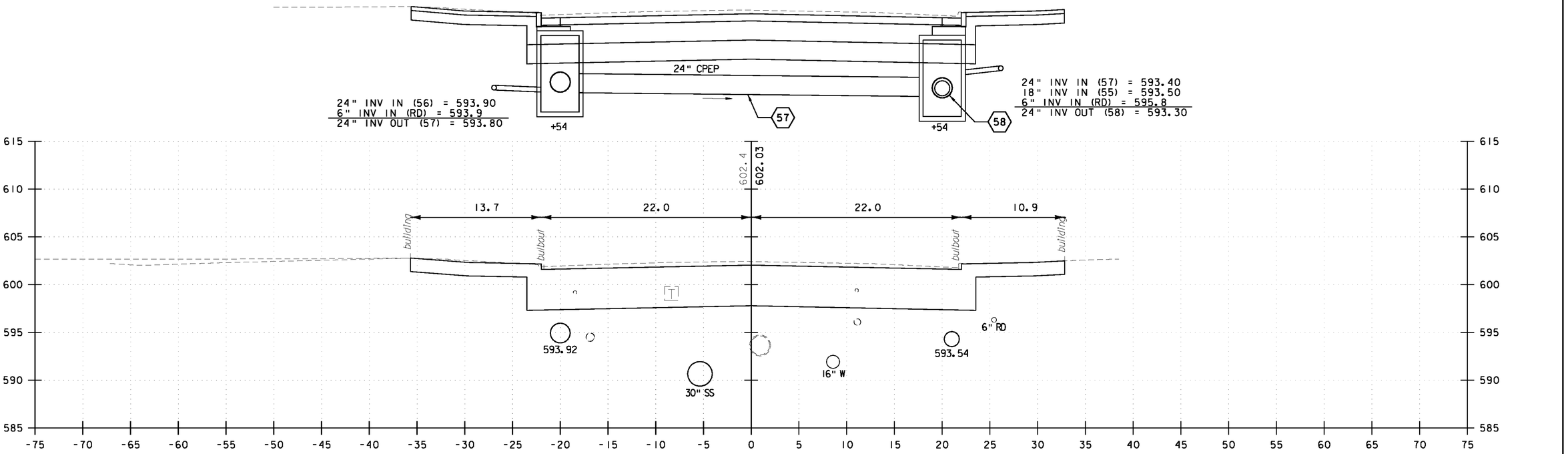


DRAINAGE X-ING (57) TO (58)

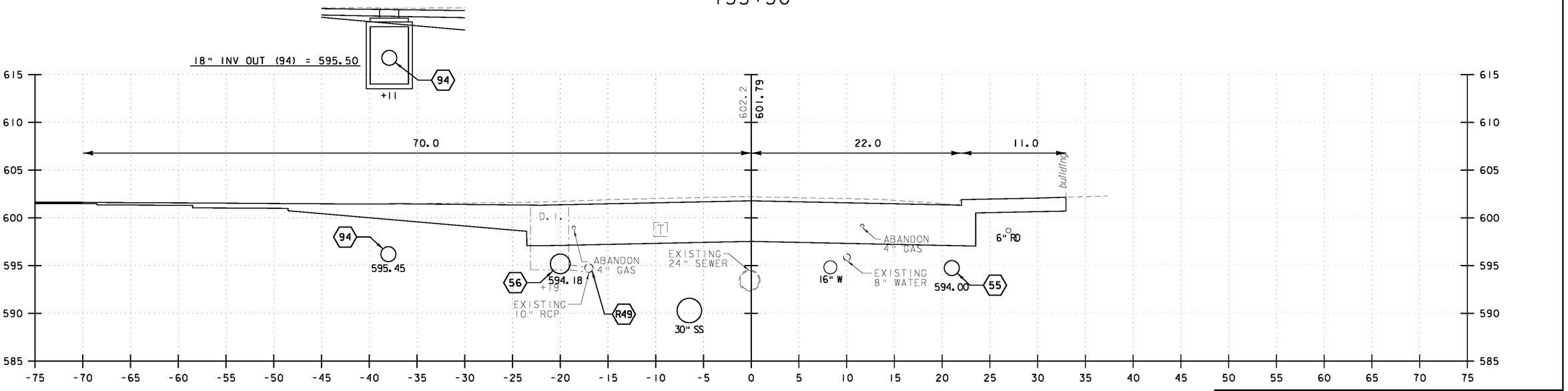


LUCK BROS. INC.	PROJECT NAME: BARRE CITY	NOTES / REVISIONS
	PROJECT NUMBER: FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
	FILE NAME: SAN PROFILES	
	MANAGER J. LUCK	
	DRAWN BY: C. KEMPNEY	

PROPOSED REDESIGN STORM SEWER PROFILES



135+50



135+03

5 0 5 10
FEET

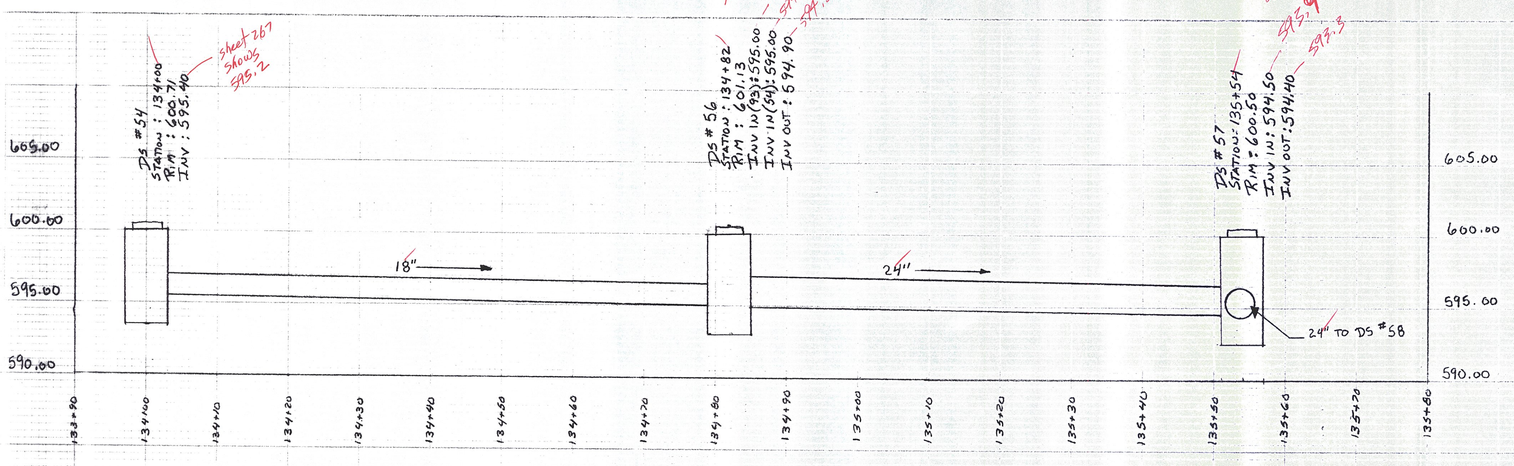
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

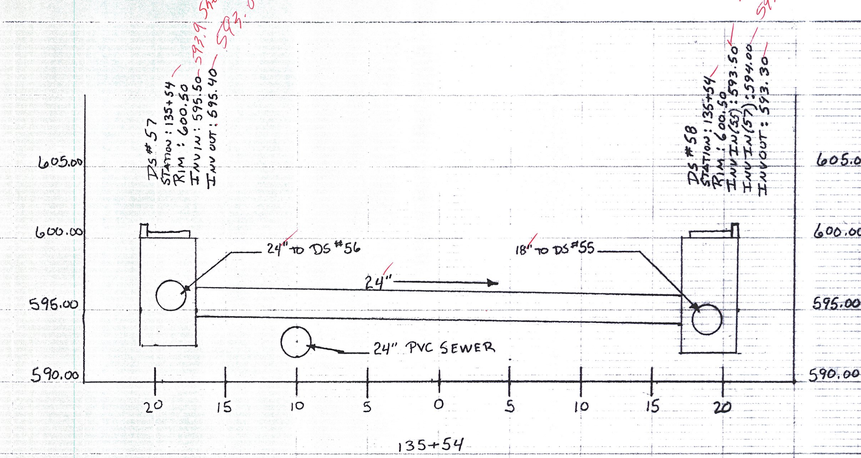
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

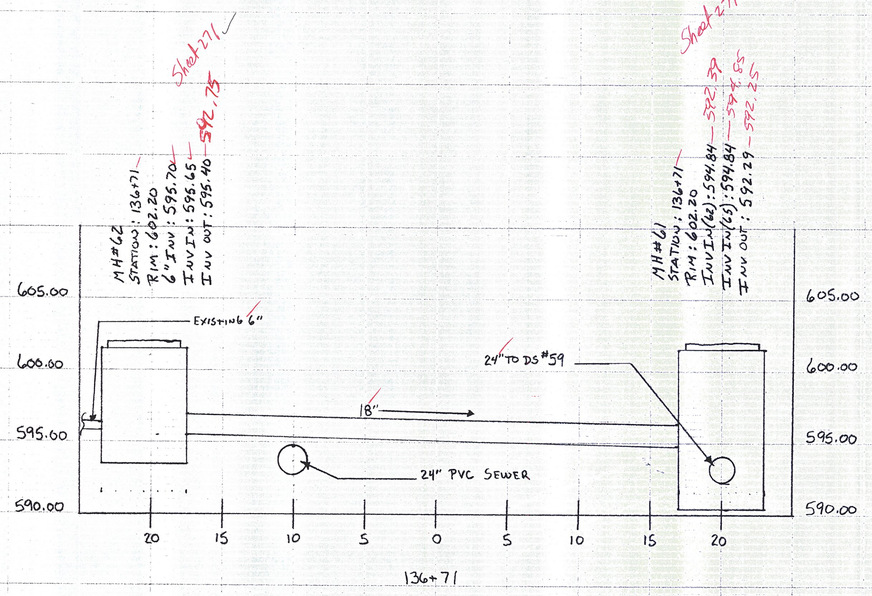
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 269 OF 339



DRAINAGE RUN (54) TO (57)

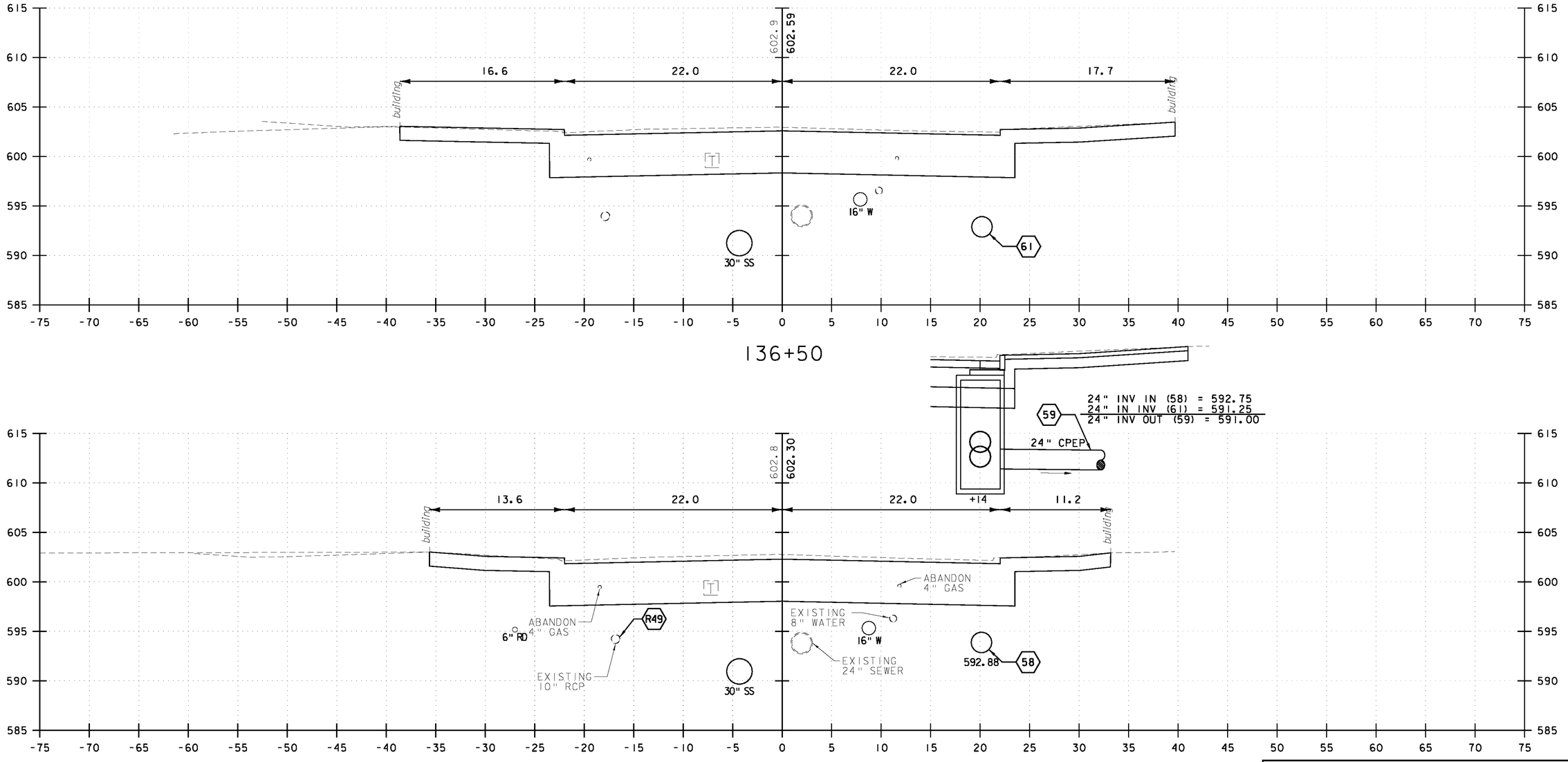


DRAINAGE X-ING (57) TO (58)



LUCK BROS. INC.	PROJECT NAME: BARRE CITY	NOTES / REVISIONS
	PROJECT NUMBER: FEGC F 026-1(34) C/2	ISSUED: 2/7/2012
	FILE NAME: SAN PROFILES	
	MANAGER J. LUCK	
	DRAWN BY: C. KEMPNEY	

PROPOSED REDESIGN STORM SEWER PROFILES



5 0 5 10
FEET

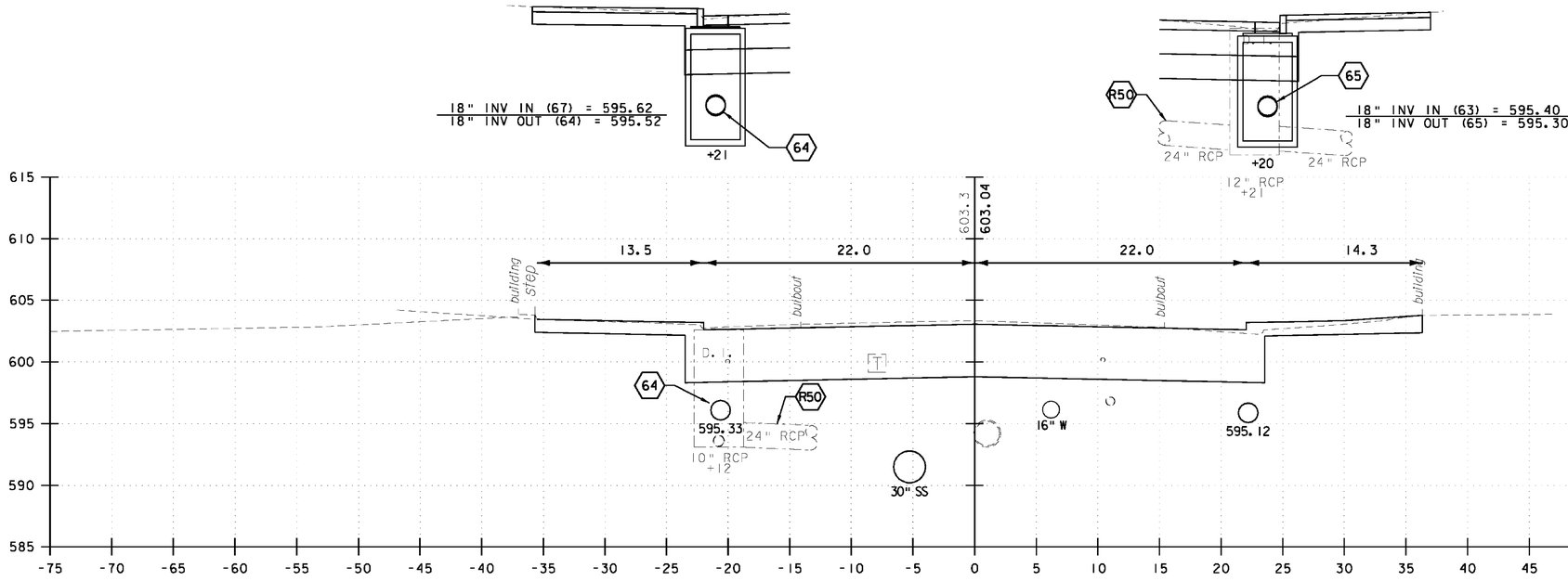
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

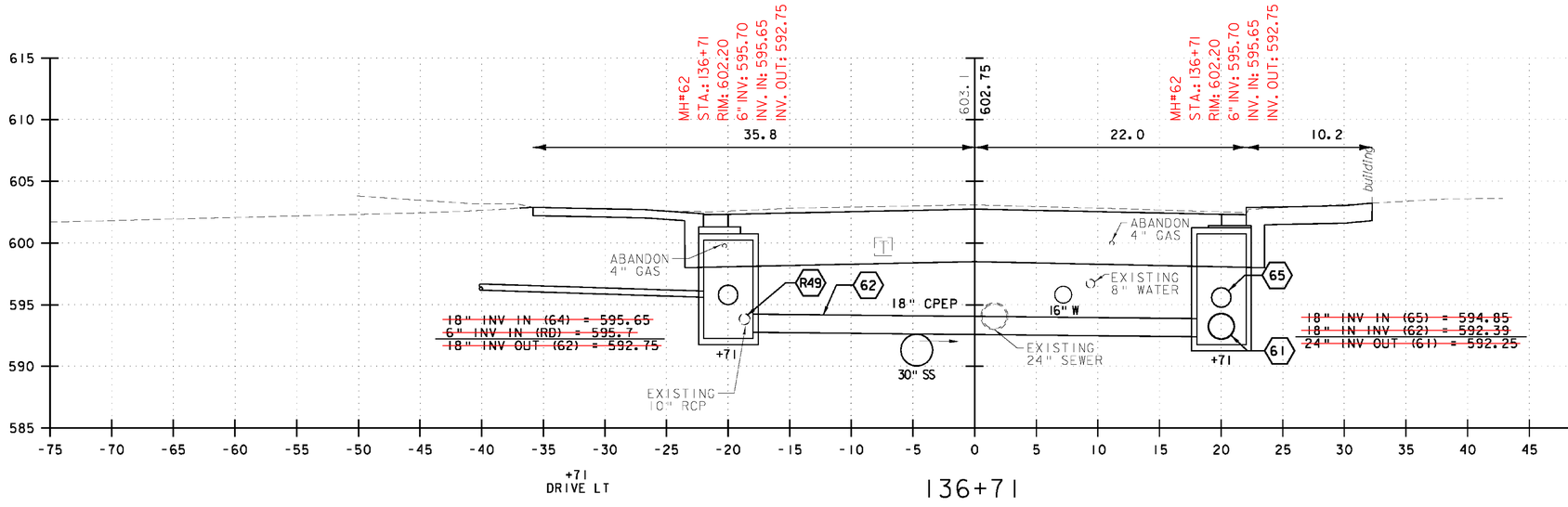
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 270 OF 339



137+00

SAND BORROW ~ 1.50' X 47.0'= 70.5 SF
SUBBASE ~ 2.00' X 47.0'= 94.0 SF



+71
DRIVE LT

136+71

5 0 5 10
FEET

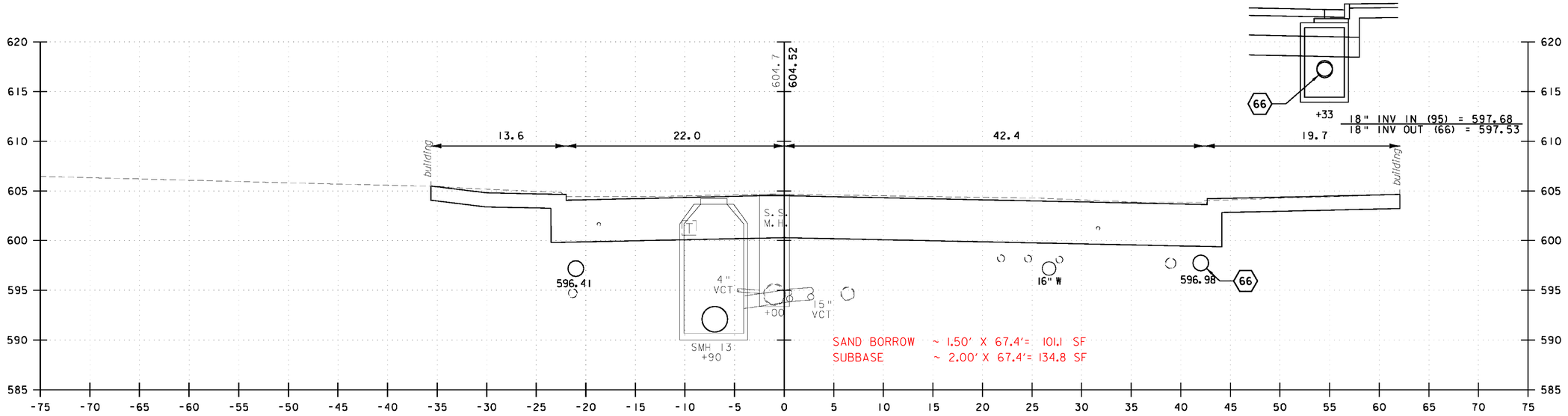
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

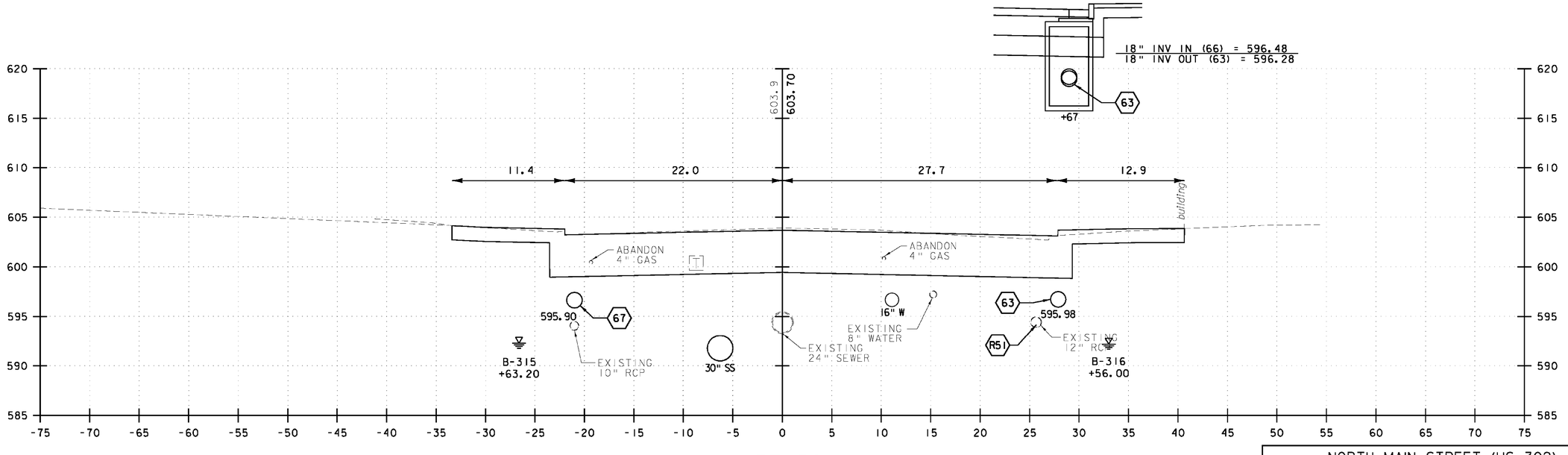
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 271 OF 339



138+00



137+50 SAND BORROW ~ 1.50' X 52.7'= 79.1 SF
SUBBASE ~ 2.00' X 52.7'= 105.4 SF

5 0 5 10
FEET

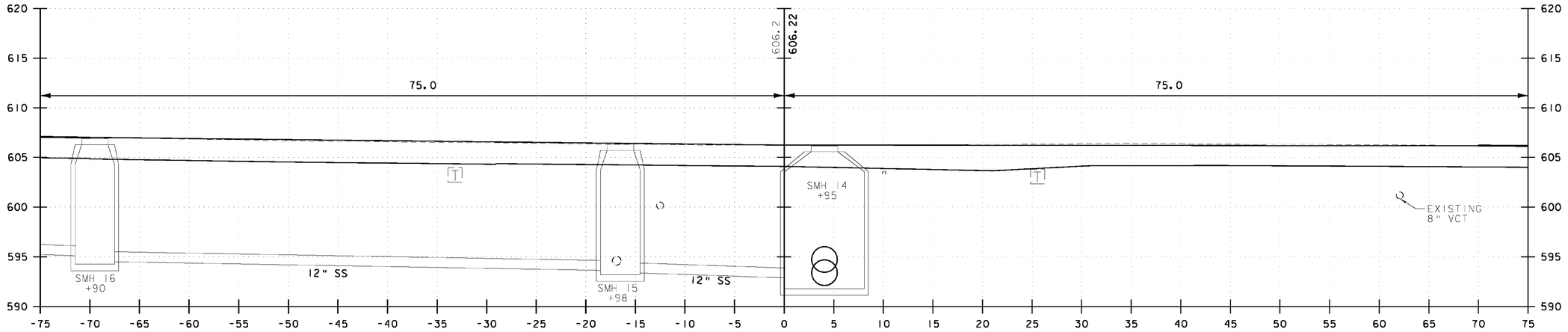
VHB Vanasse Hangen Brustlin, Inc.

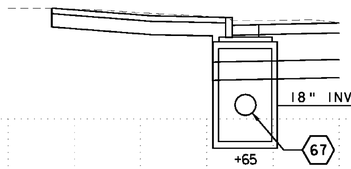
NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

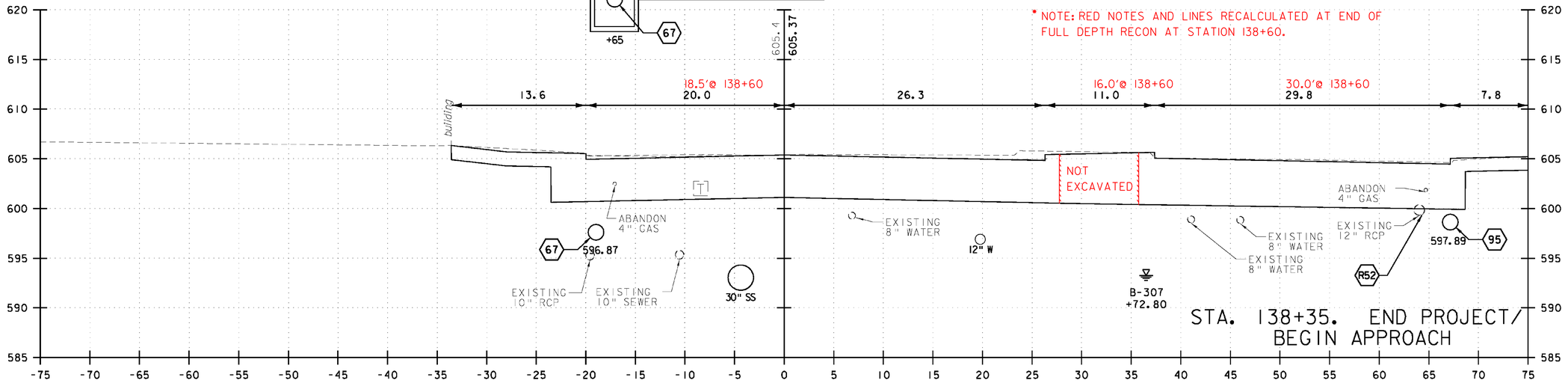
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 272 OF 339





139+00

STA. 138+60. END PROJECT/
BEGIN APPROACH



STA. 138+35. END PROJECT/
BEGIN APPROACH

138+~~50~~60

SAND BORROW@ 138+60 ~ 1.50' X 80.8'= 121.2 SF
SUBBASE@ 138+60 ~ 2.00' X 80.8'= 161.6 SF

5 0 5 10
FEET

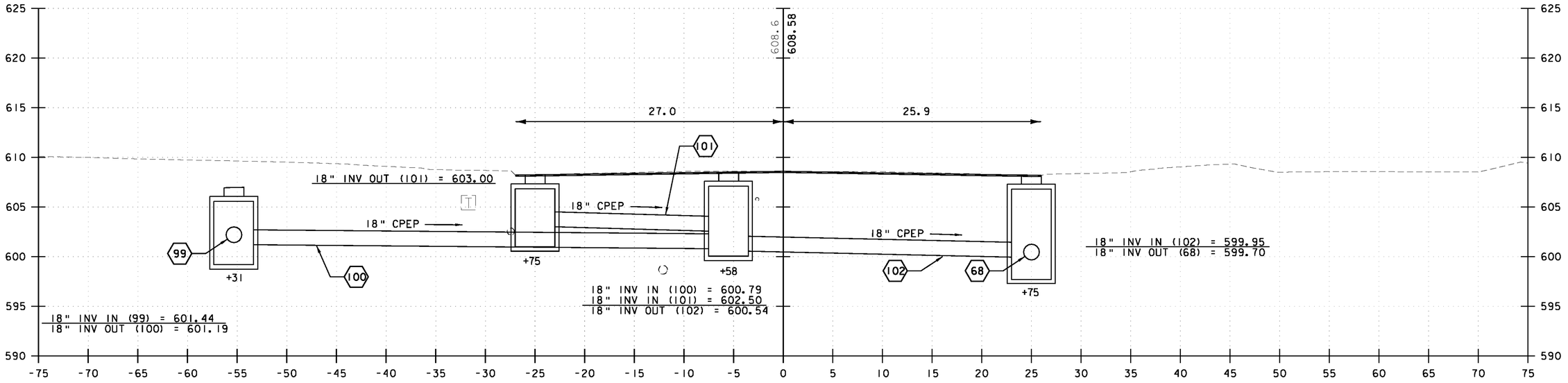
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

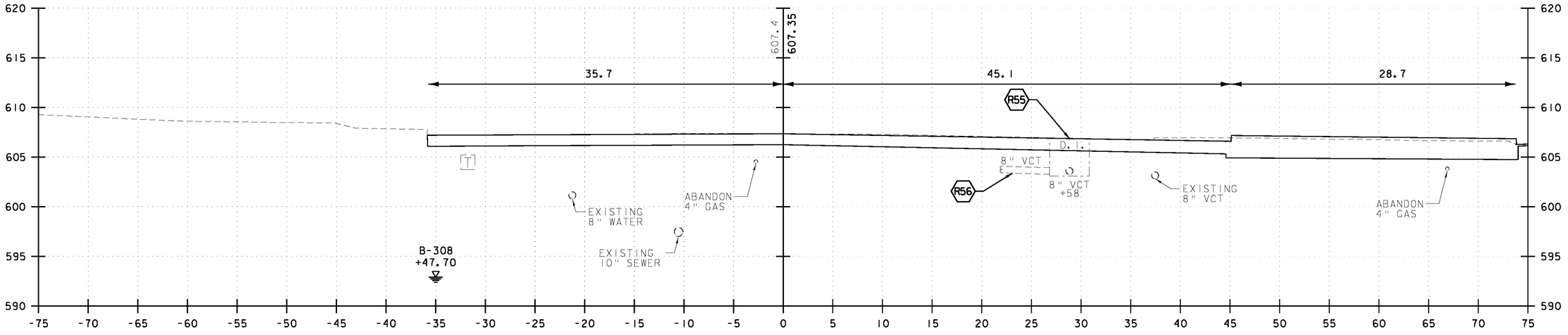
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-I(34) C/2

FILE NAME: 85b010_xsi_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 273 OF 339



140+00



139+50

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

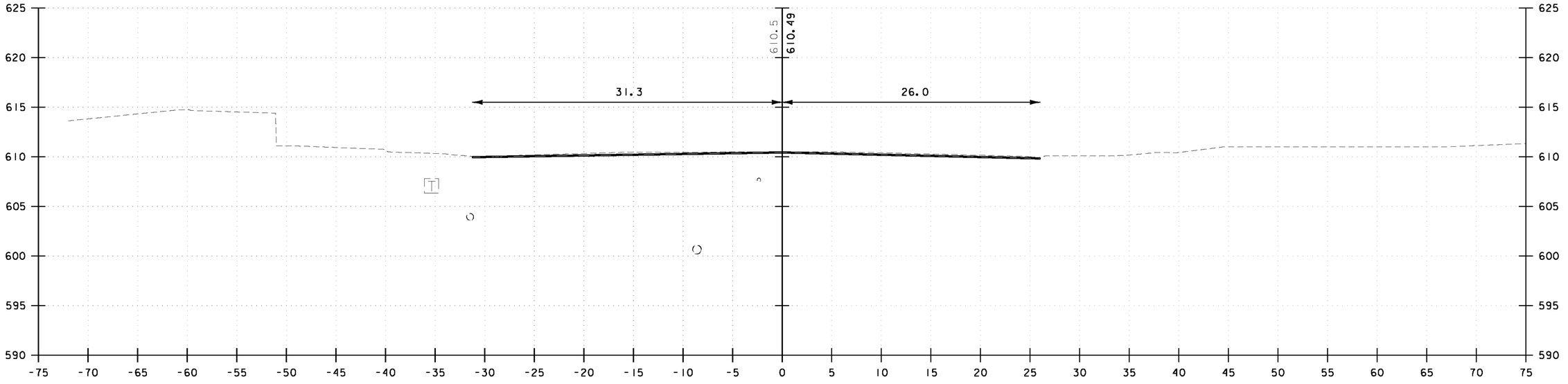
NORTH MAIN STREET (US 302)

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

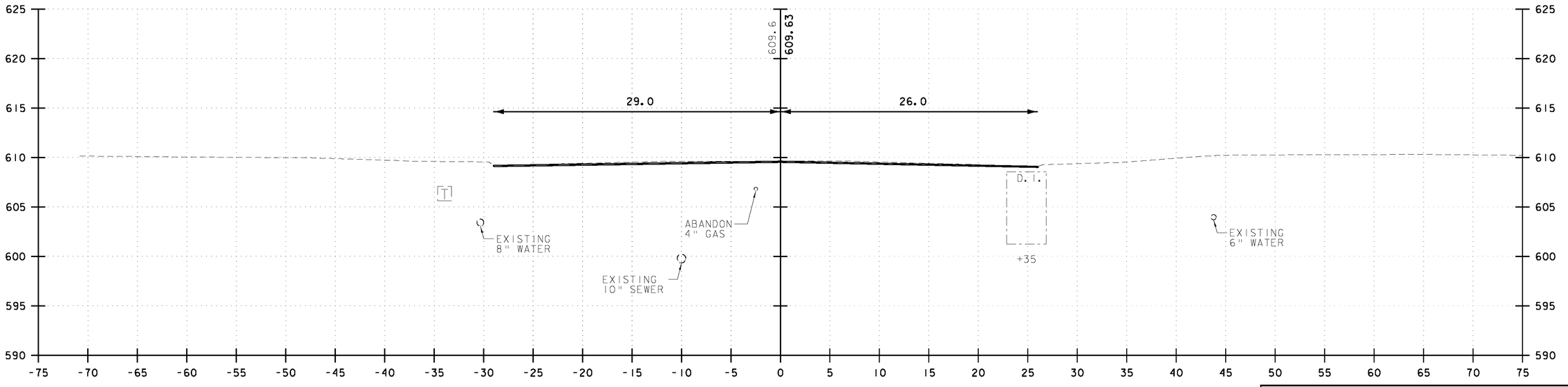
FILE NAME: 85b010_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 274 OF 339

END APPROACH 141+00



141+00



140+50

5 0 5 10
FEET

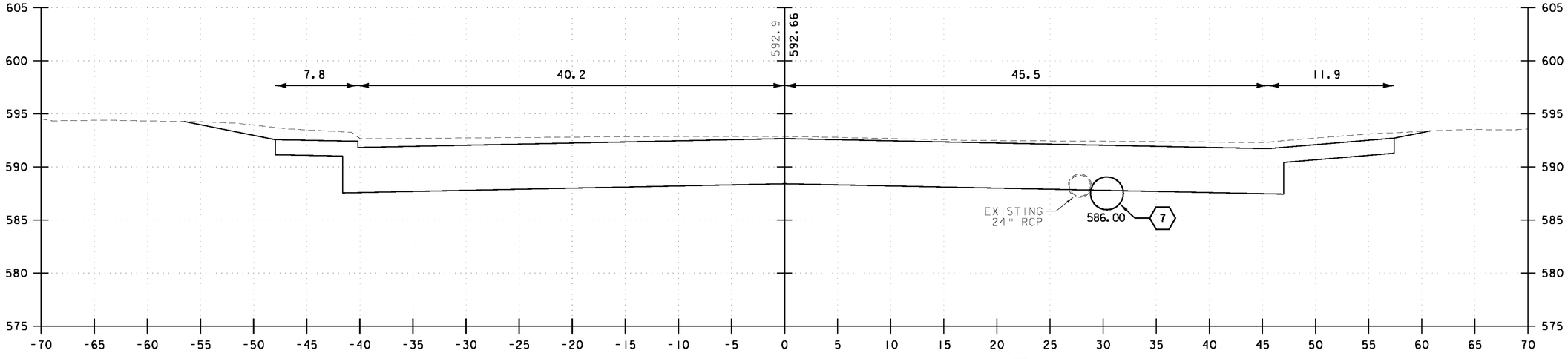
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET (US 302)

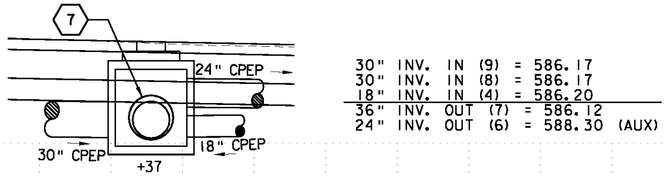
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xsl_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

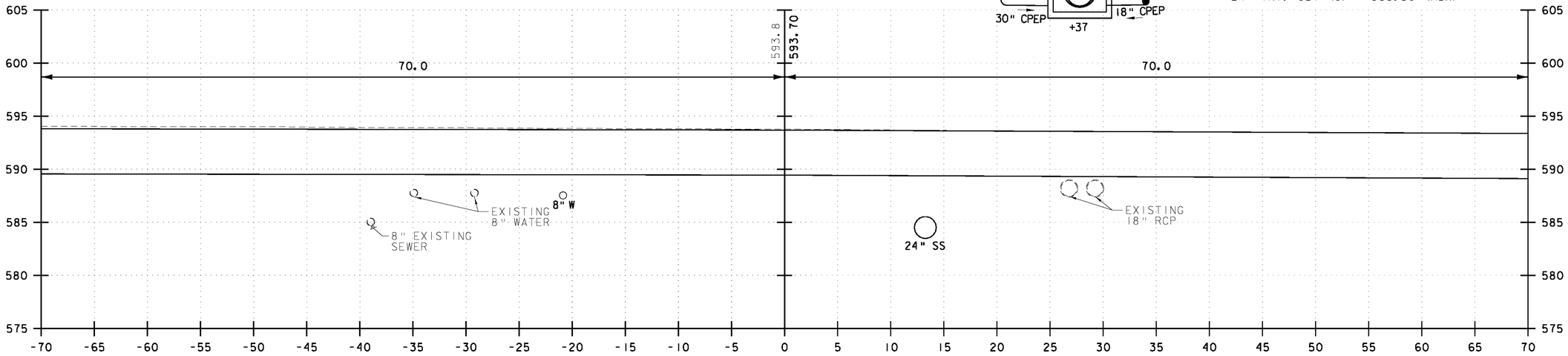
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 275 OF 339



10+50



30" INV. IN (9) = 586.17
30" INV. IN (8) = 586.17
18" INV. IN (4) = 586.20
36" INV. OUT (7) = 586.12
24" INV. OUT (6) = 588.30 (AUX)



10+00

5 0 5 10
FEET

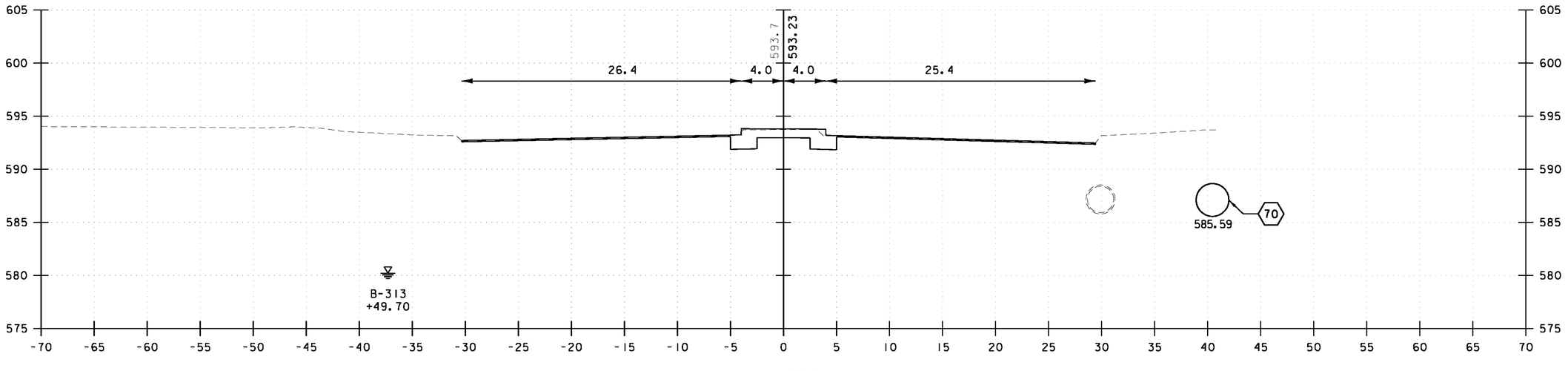
VHB Vanasse Hangen Brustlin, Inc.

ROUTE 62

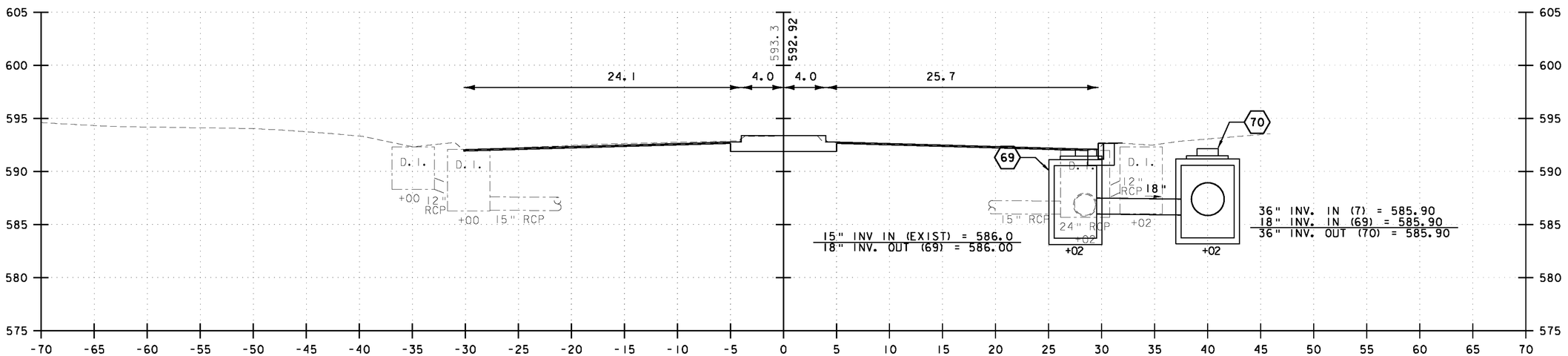
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 276 OF 339



11+50



11+00

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

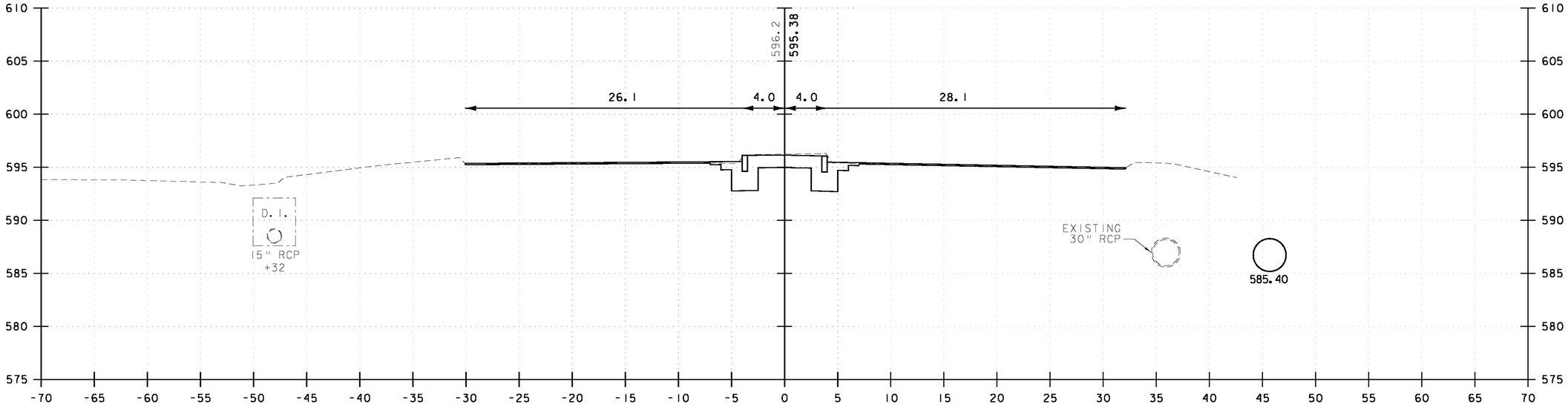
ROUTE 62

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

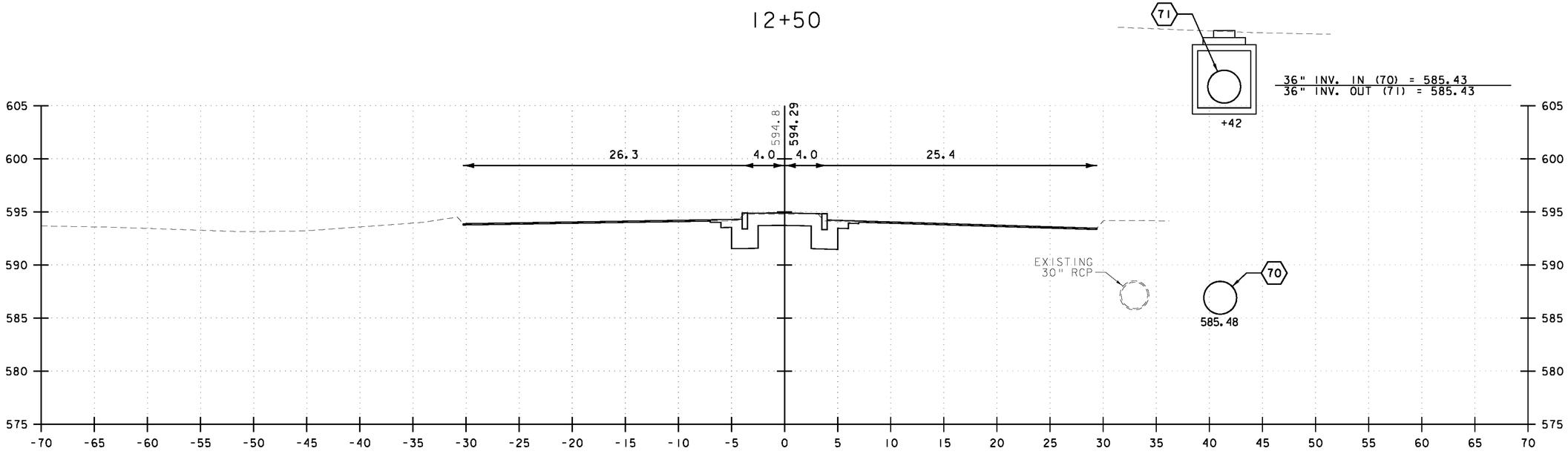
FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 277 OF 339

END APPROACH STA. 12+66



12+50



12+00

5 0 5 10
FEET

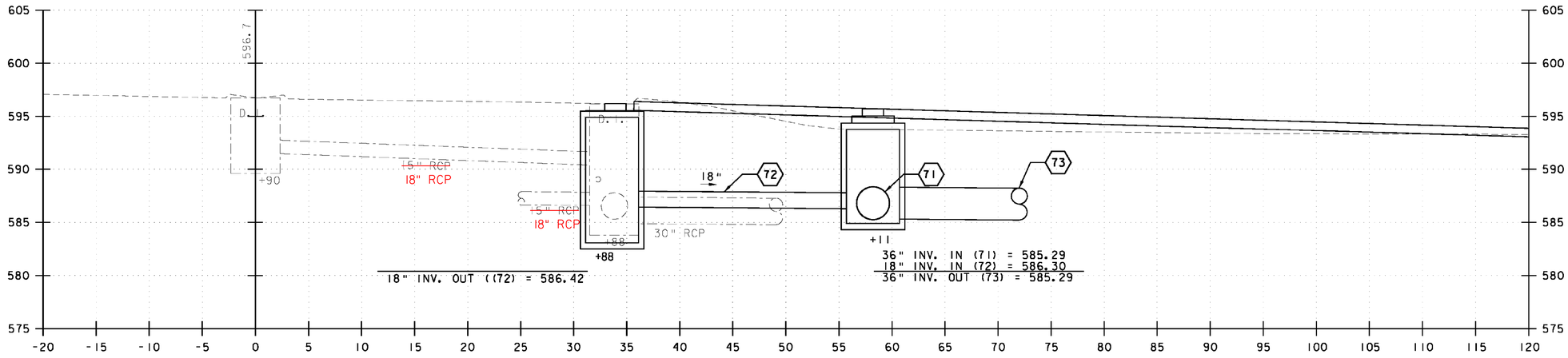
VHB Vanasse Hangen Brustlin, Inc.

ROUTE 62

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 278 OF 339



13+00

+11
DRIVE RT

5 0 5 10
FEET

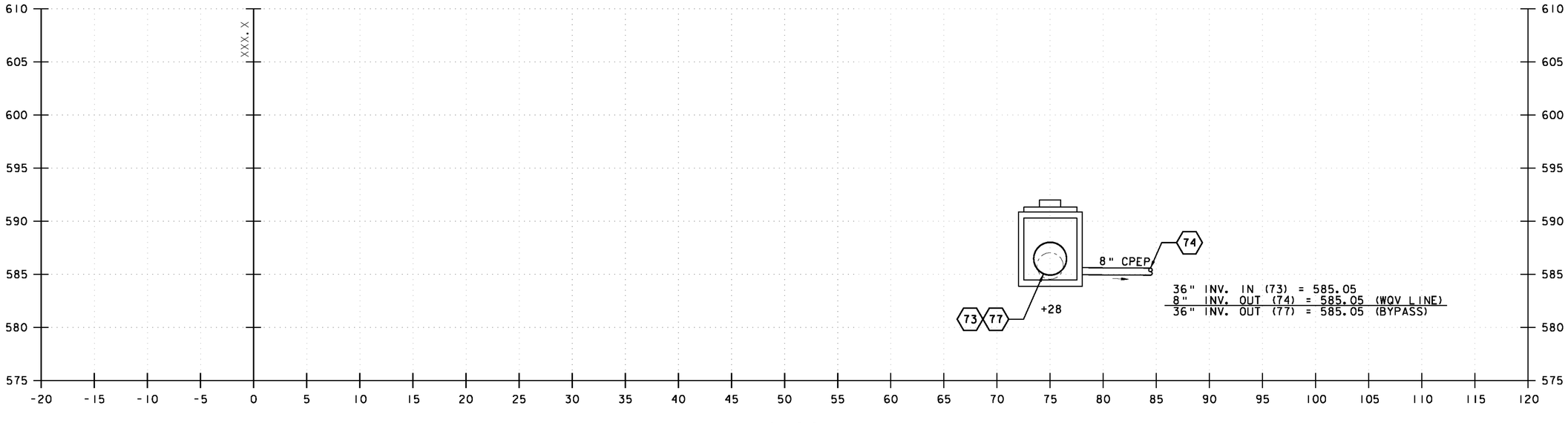
VHB Vanasse Hangen Brustlin, Inc.

ROUTE 62

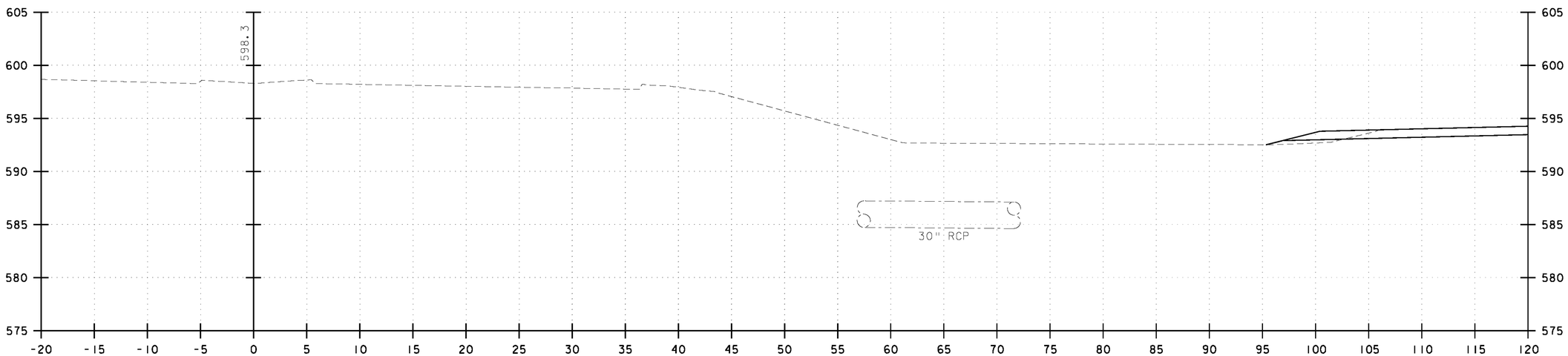
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 279 OF 339



14+00



13+50

5 0 5 10
FEET

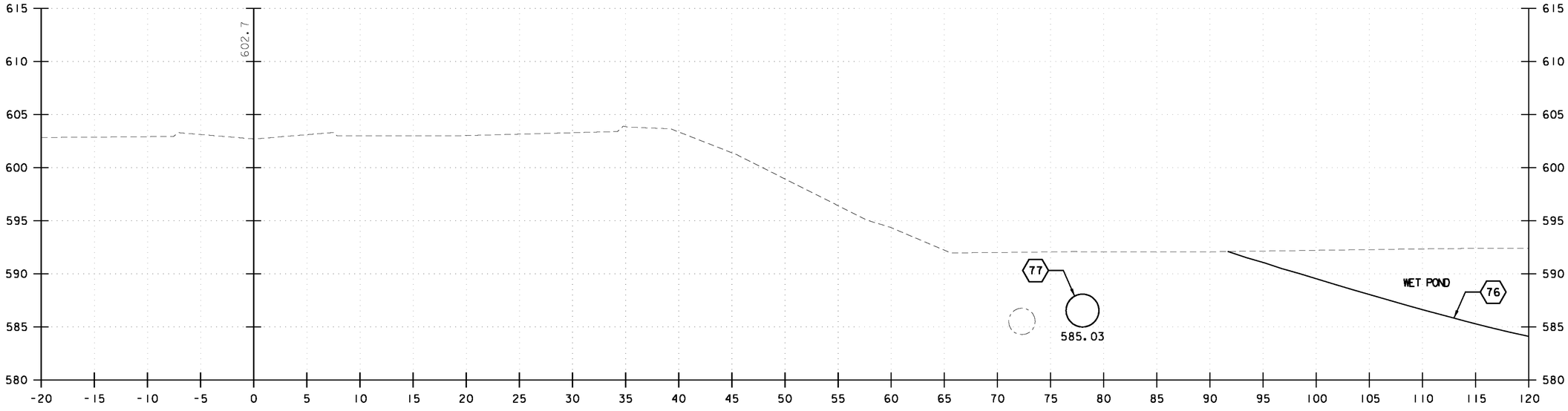
VHB Vanasse Hangen Brustlin, Inc.

ROUTE 62

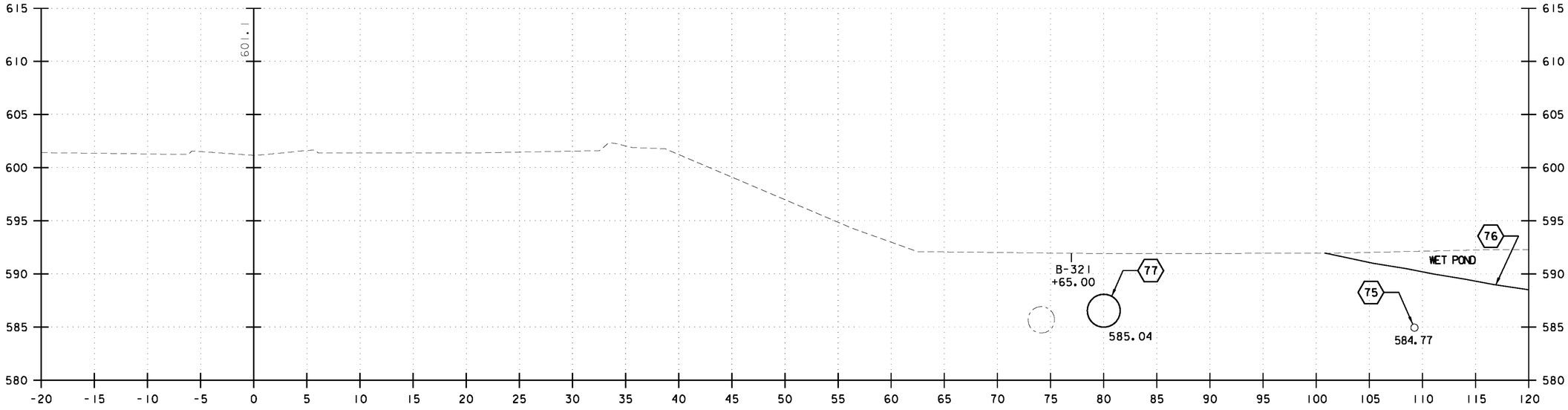
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 280 OF 339



15+00

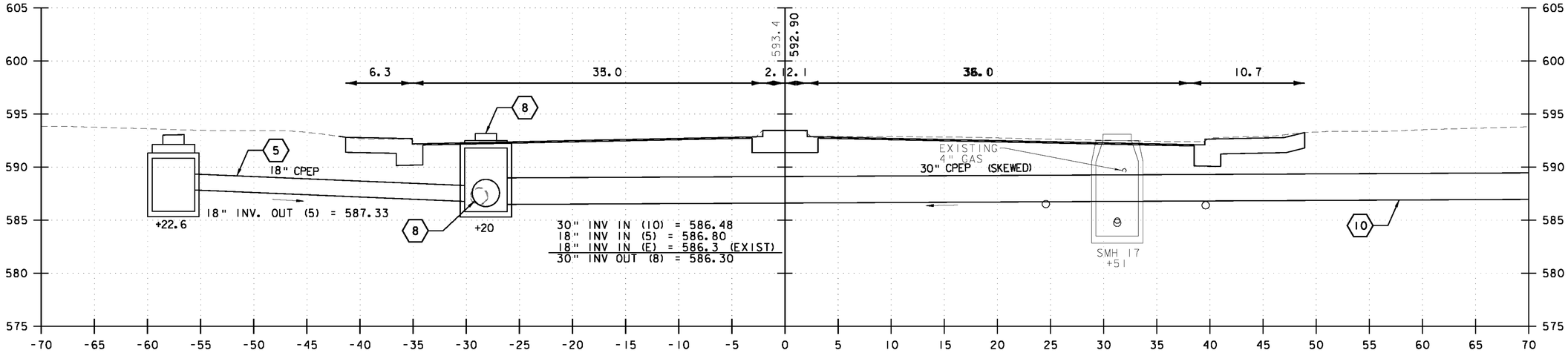


14+50

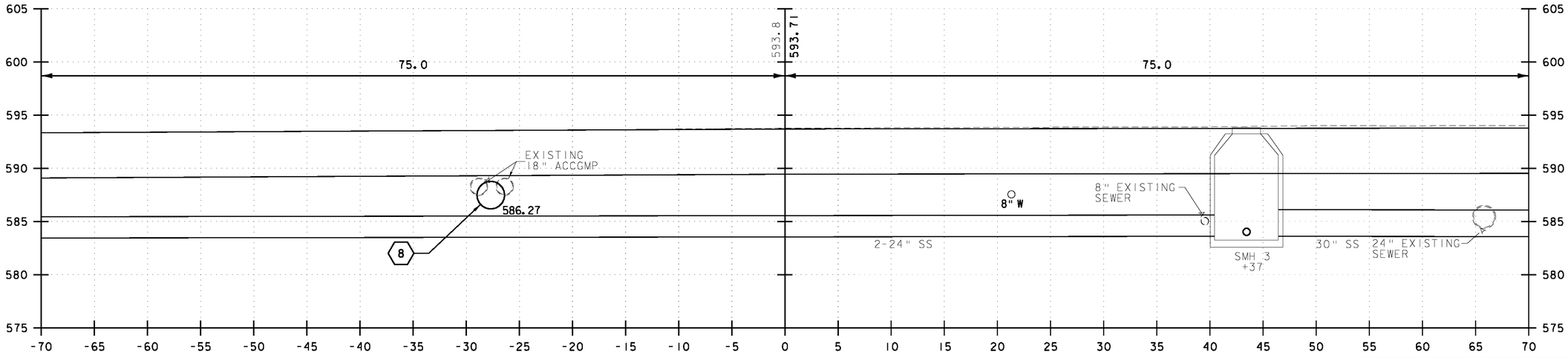
5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

ROUTE 62	
PROJECT NAME: BARRE CITY	
PROJECT NUMBER: FEGC F 026-1(34) C/2	
FILE NAME: 85b010_xs2_Cut_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CROSS SECTIONS	SHEET 281 OF 339



20+50



20+00

5 0 5 10
FEET

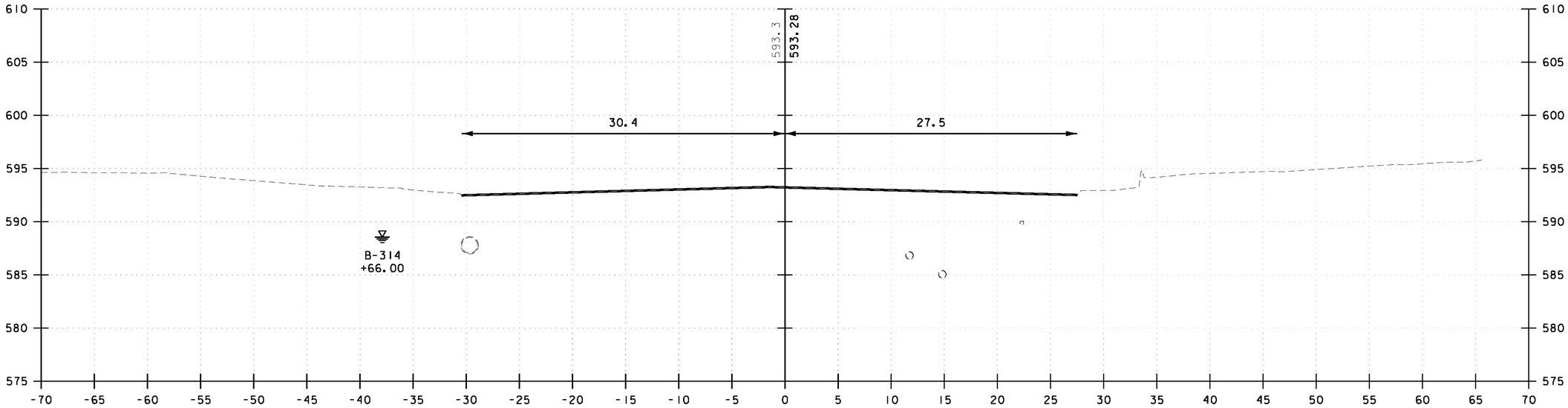
VHB Vanasse Hangen Brustlin, Inc.

MAPLE AVENUE

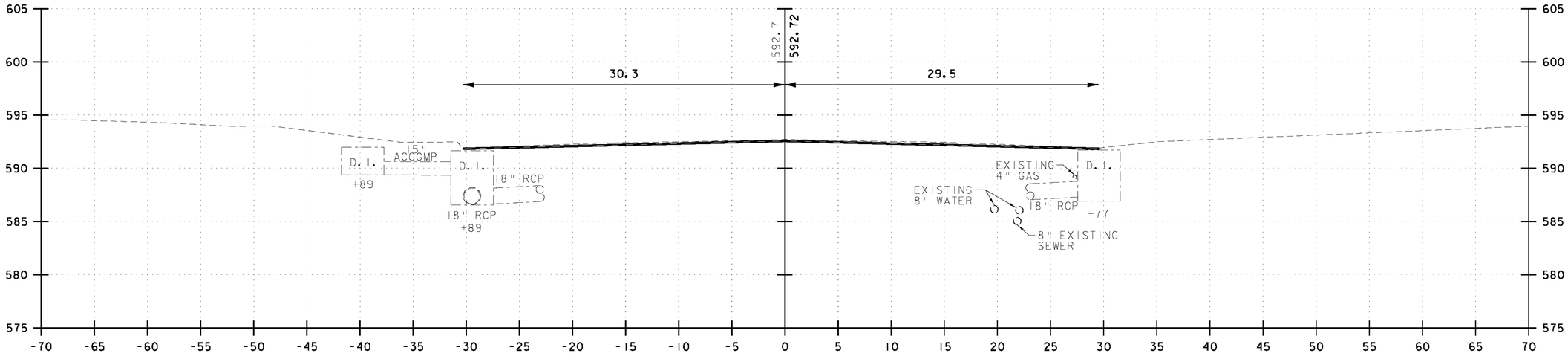
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 282 OF 339



21+50



21+00

5 0 5 10
FEET

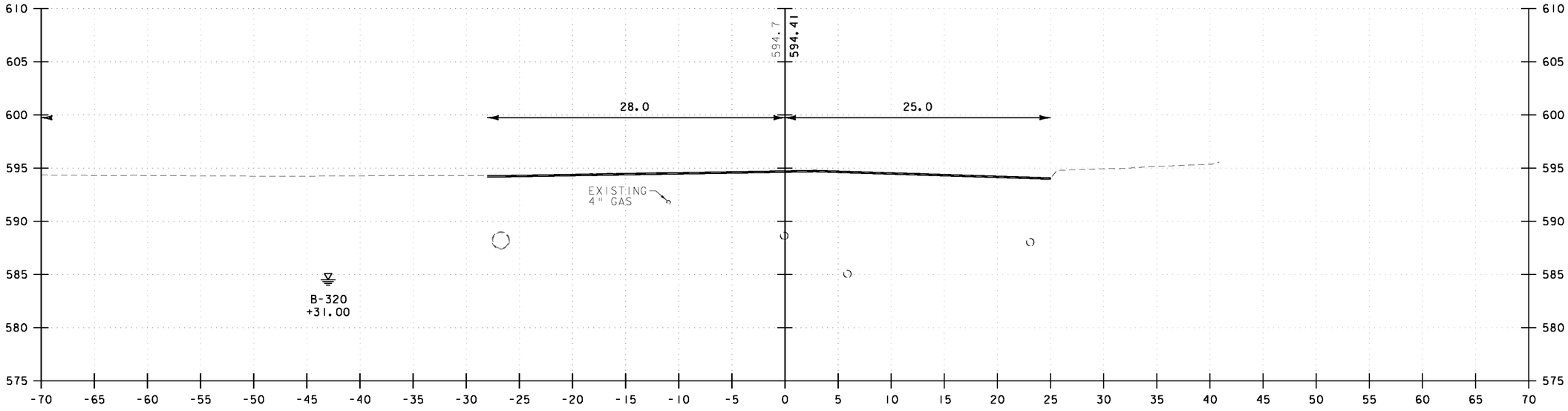
VHB Vanasse Hangen Brustlin, Inc.

MAPLE AVENUE

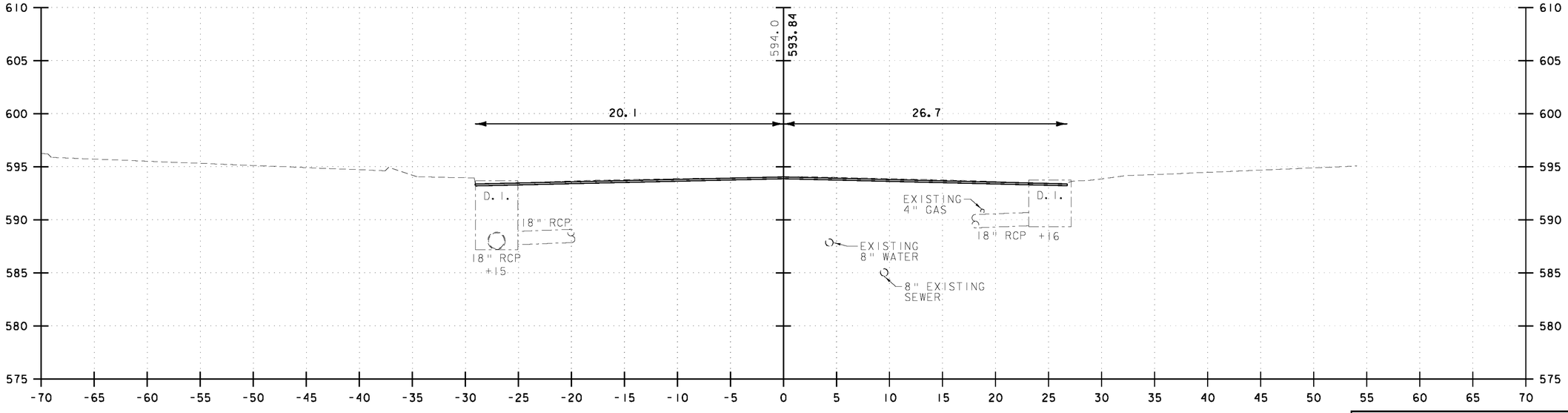
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 283 OF 339



22+50



22+00

5 0 5 10
FEET

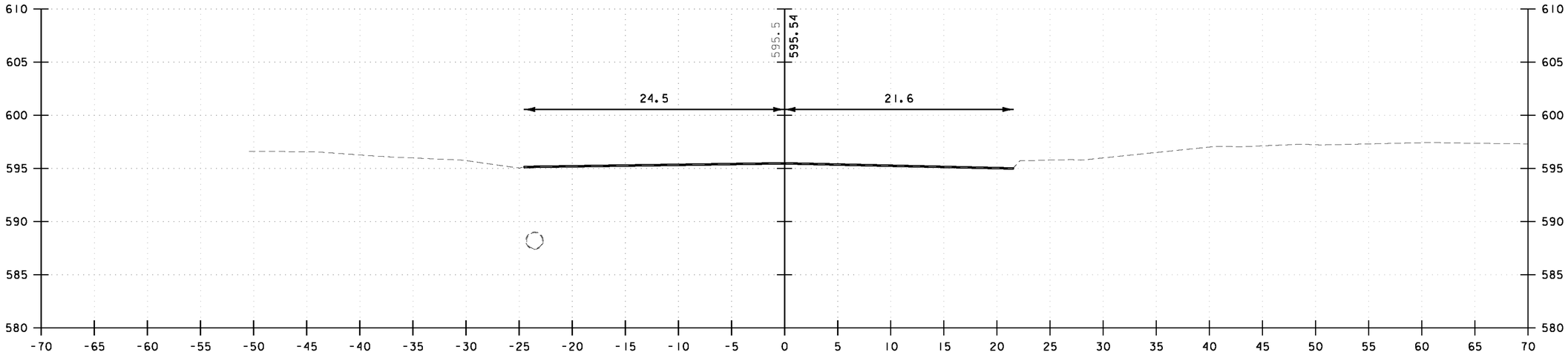
VHB Vanasse Hangen Brustlin, Inc.

MAPLE AVENUE

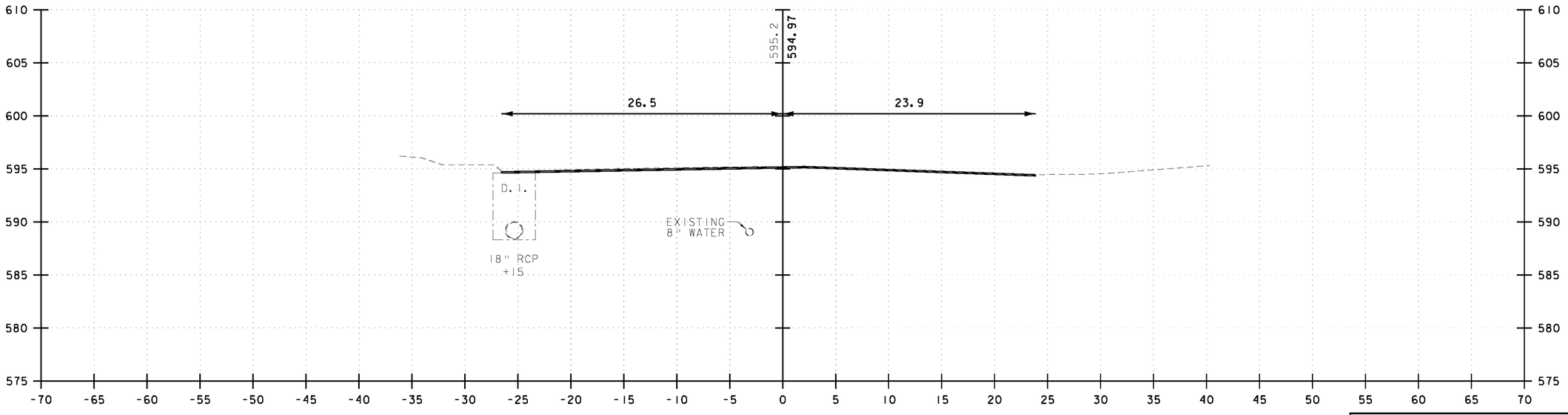
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 284 OF 339



23+50



23+00

5 0 5 10
FEET

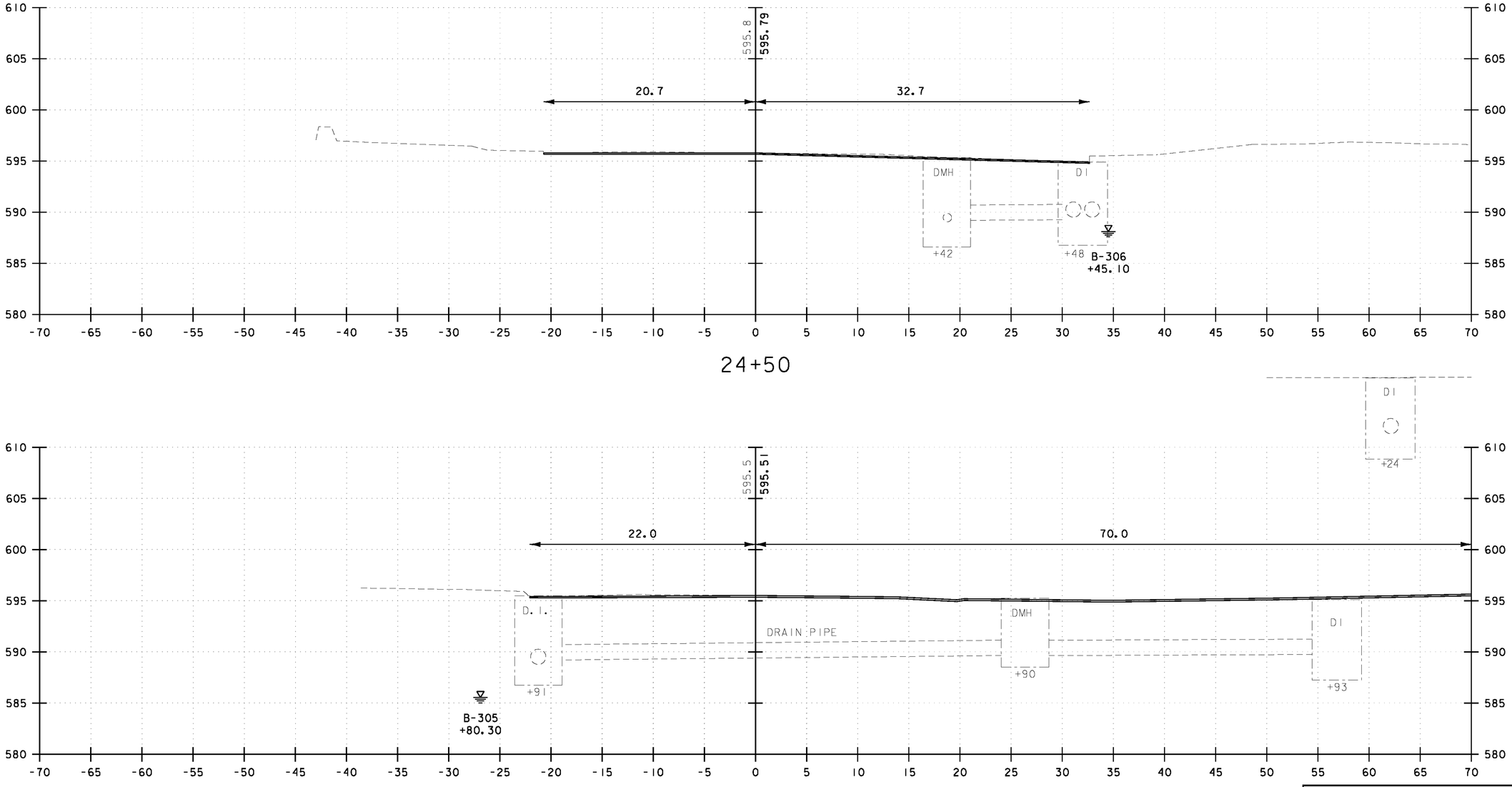
VHB Vanasse Hangen Brustlin, Inc.

MAPLE AVENUE

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 285 OF 339



5 0 5 10
FEET

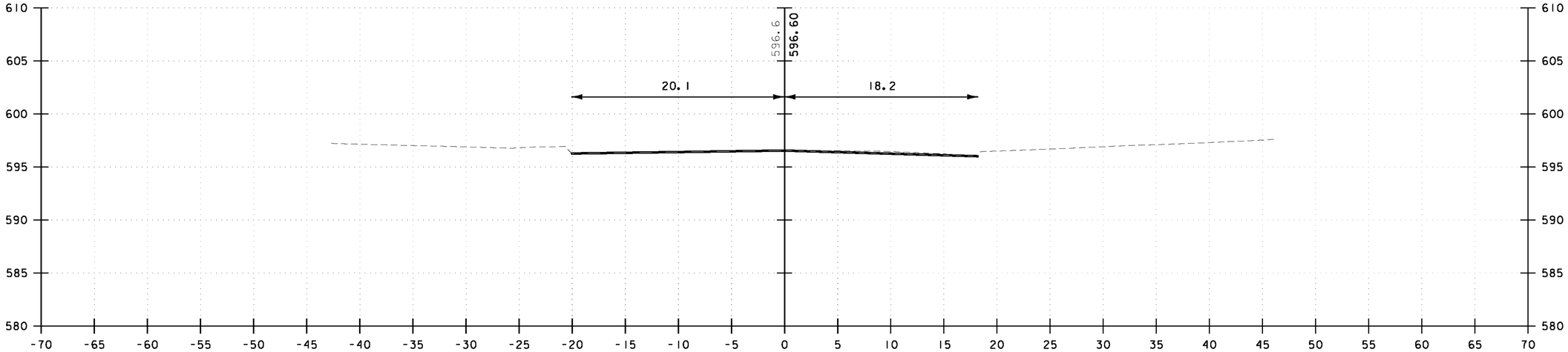
VHB Vanasse Hangen Brustlin, Inc.

MAPLE AVENUE

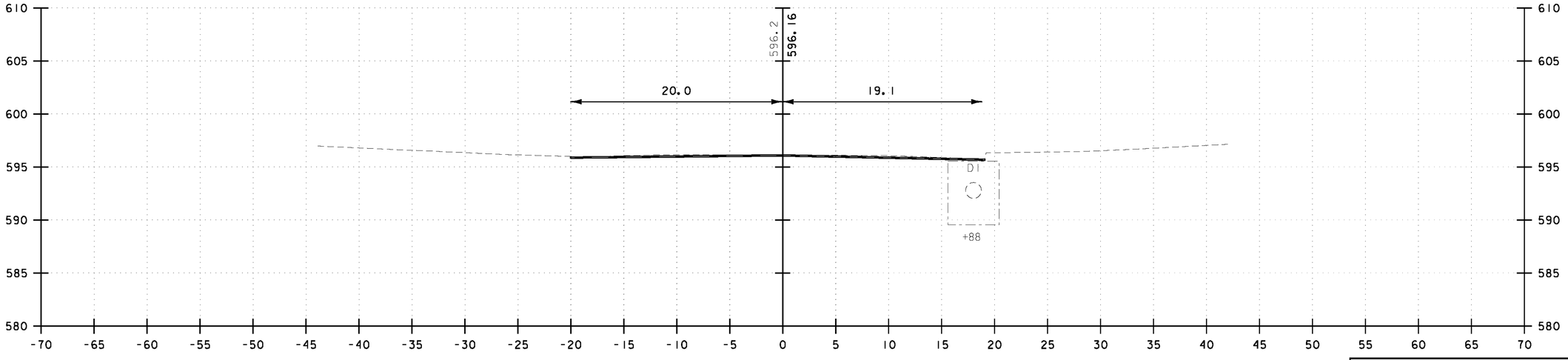
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 286 OF 339



25+50



25+00

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

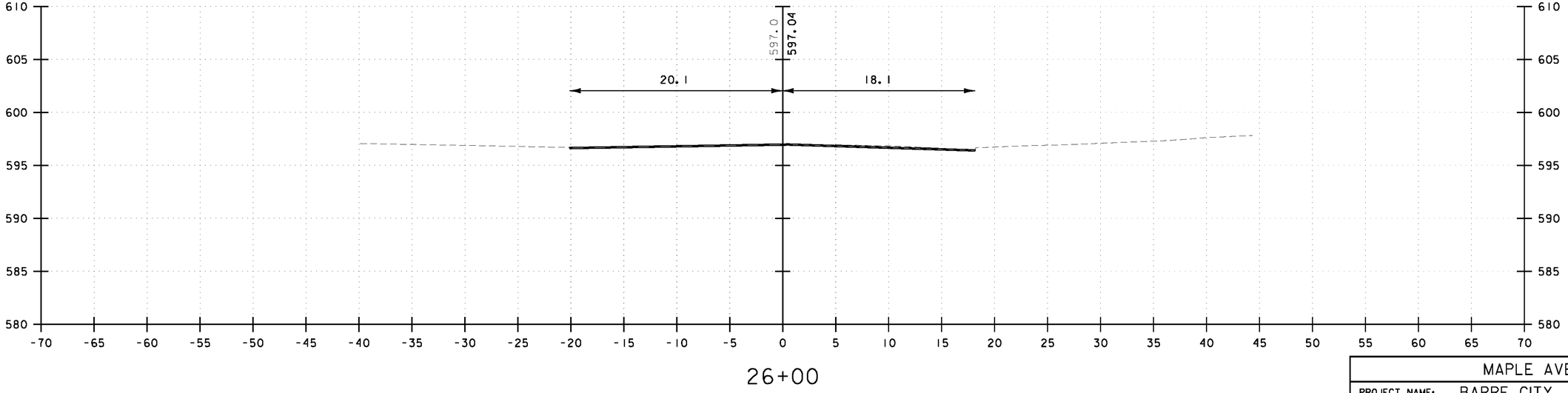
MAPLE AVENUE

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 287 OF 339

END APPROACH STA. 26+70



5 0 5 10
FEET

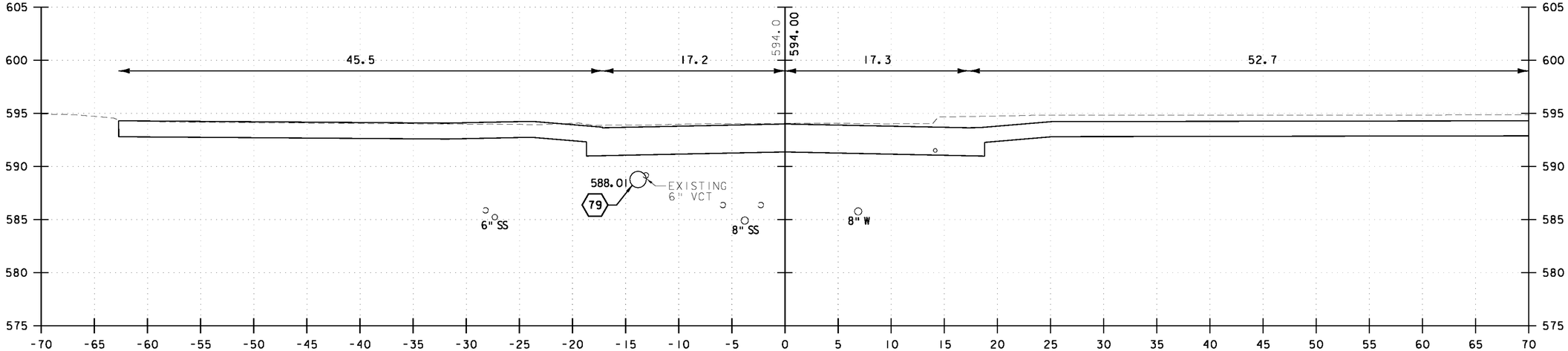
VHB Vanasse Hangen Brustlin, Inc.

MAPLE AVENUE

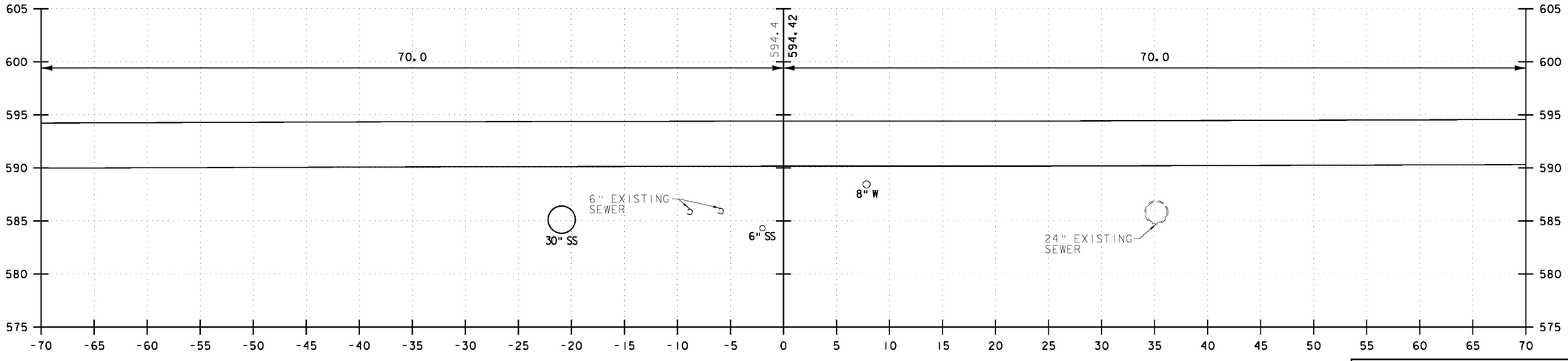
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 288 OF 339



30+25



30+00

5 0 5 10
FEET

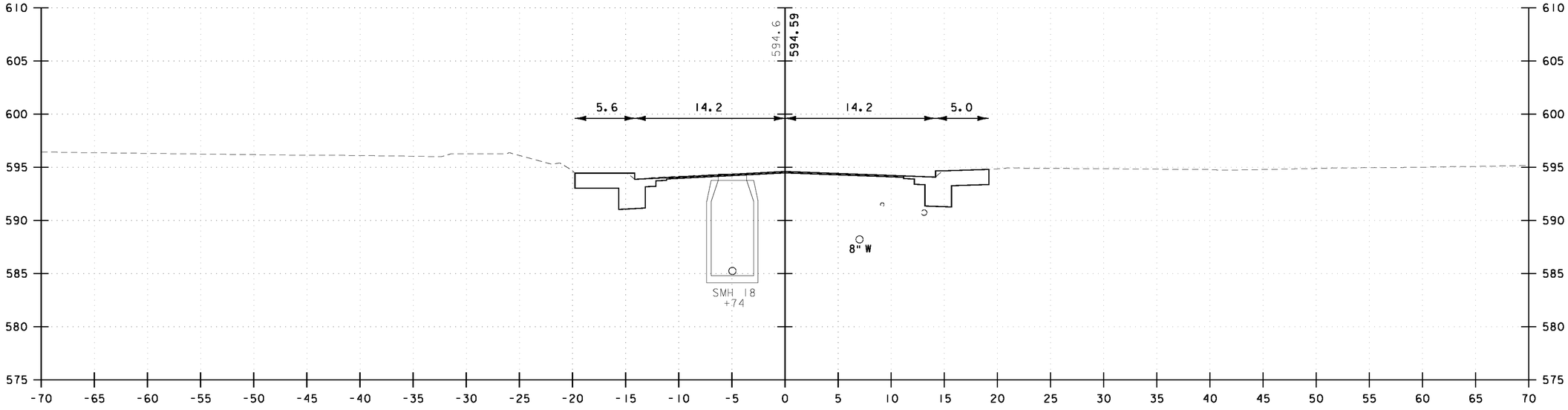
VHB Vanasse Hangen Brustlin, Inc.

COTTAGE STREET

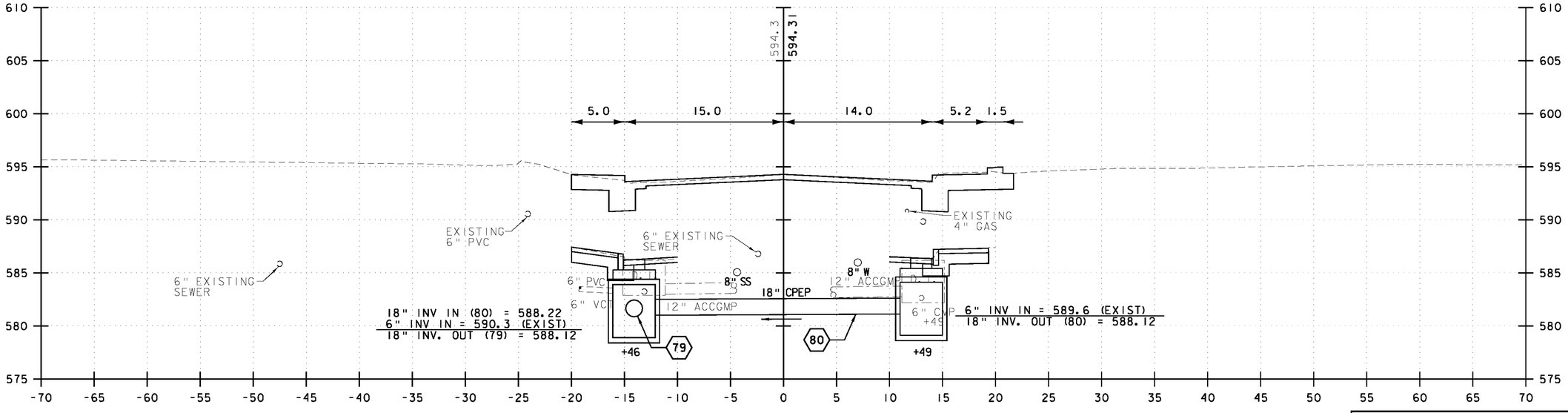
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 289 OF 339



30+75



30+50

5 0 5 10
FEET

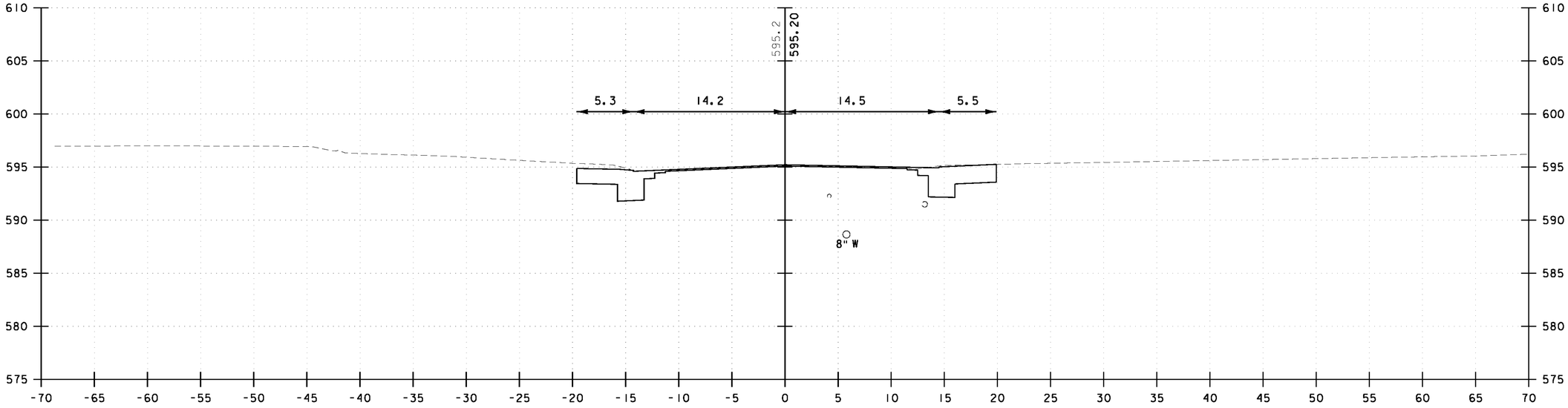
VHB Vanasse Hangen Brustlin, Inc.

COTTAGE STREET

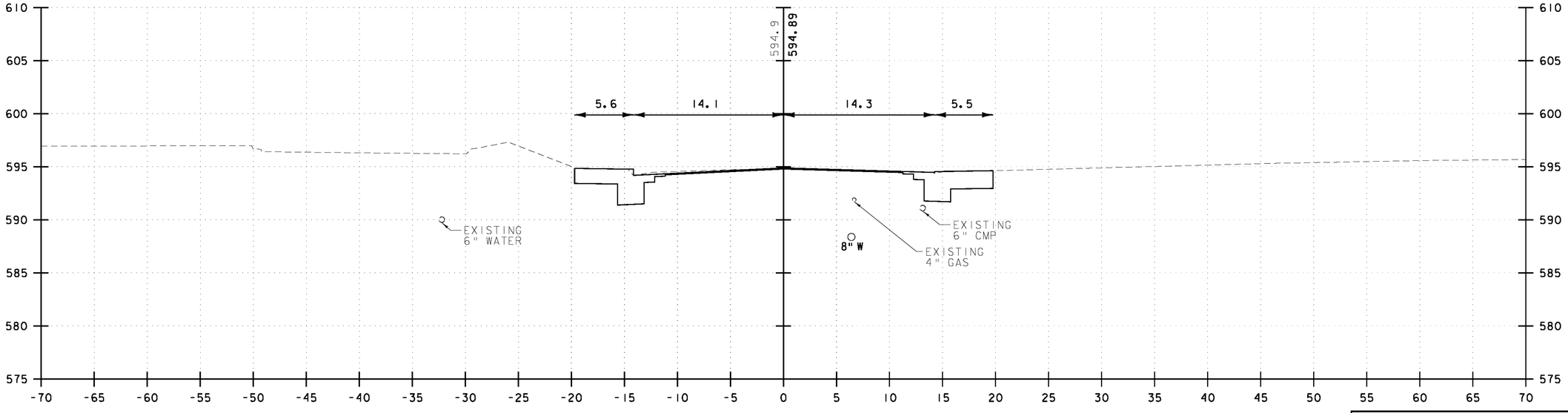
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PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 290 OF 339



31+25



31+00

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

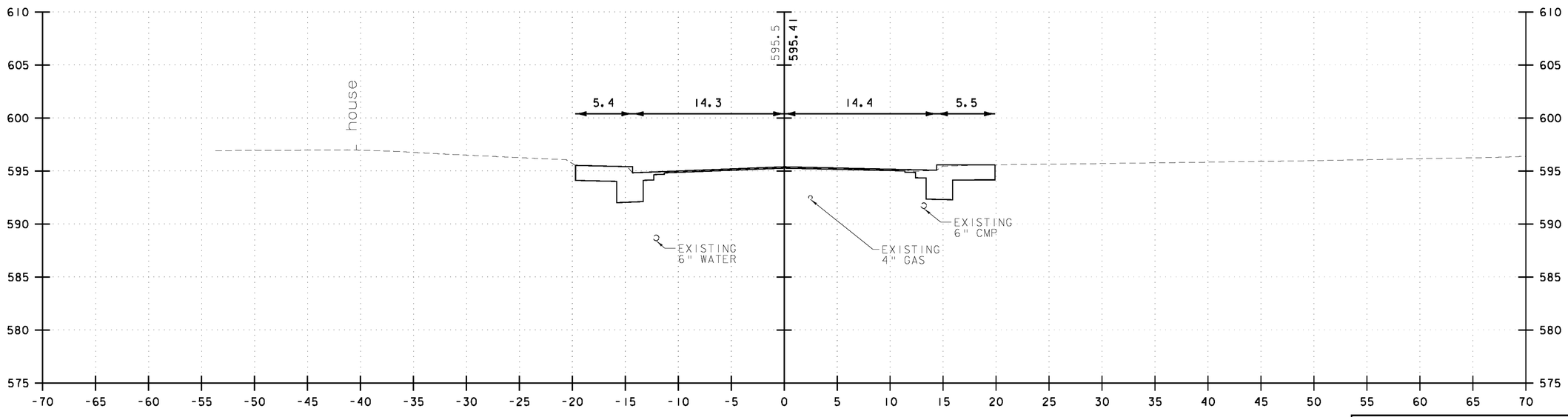
COTTAGE STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 291 OF 339

END APPROACH STA. 31+42

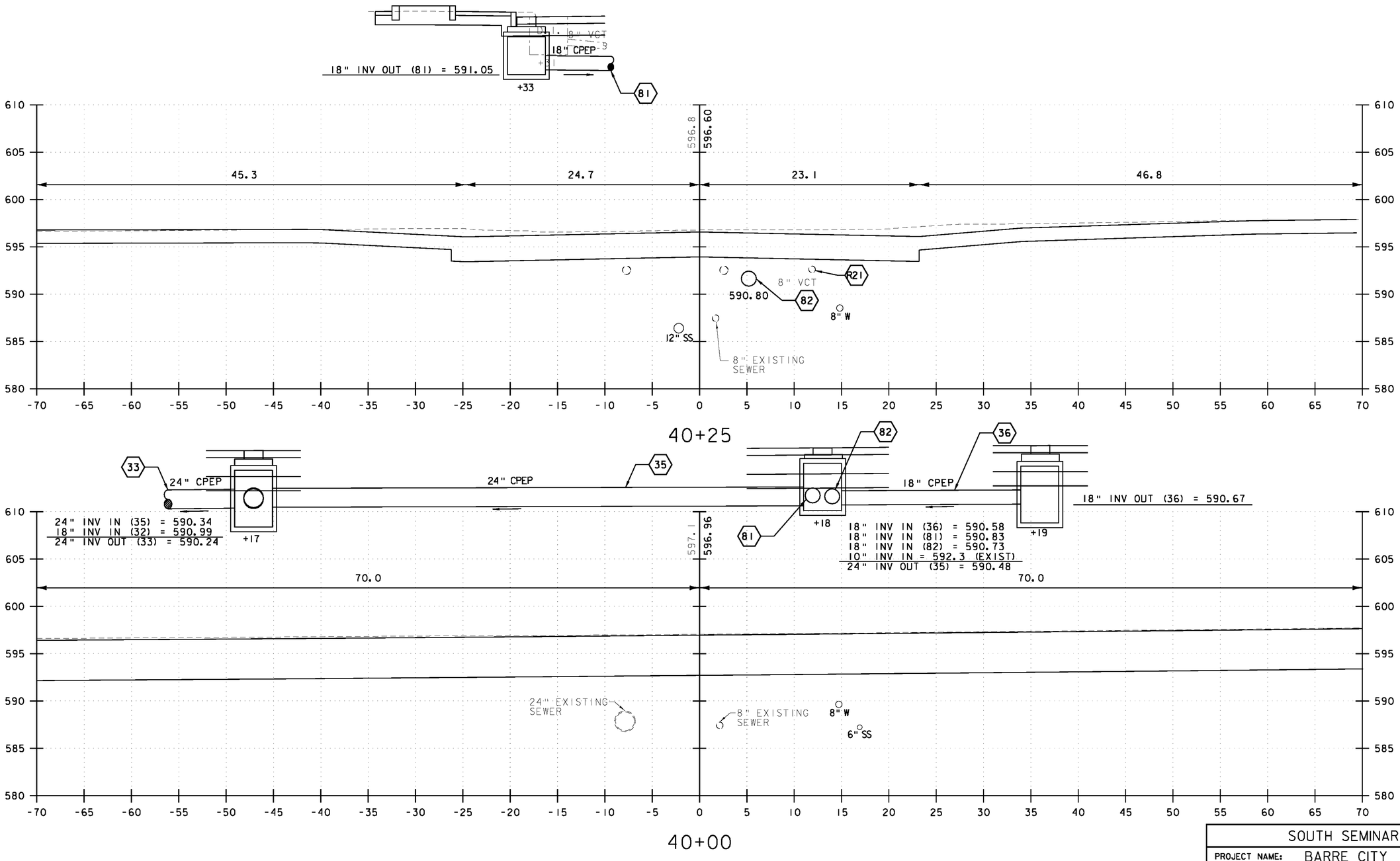


31+42

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

COTTAGE STREET	
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_xs2_Cut_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CROSS SECTIONS	SHEET 292 OF 339



5 0 5 10
FEET

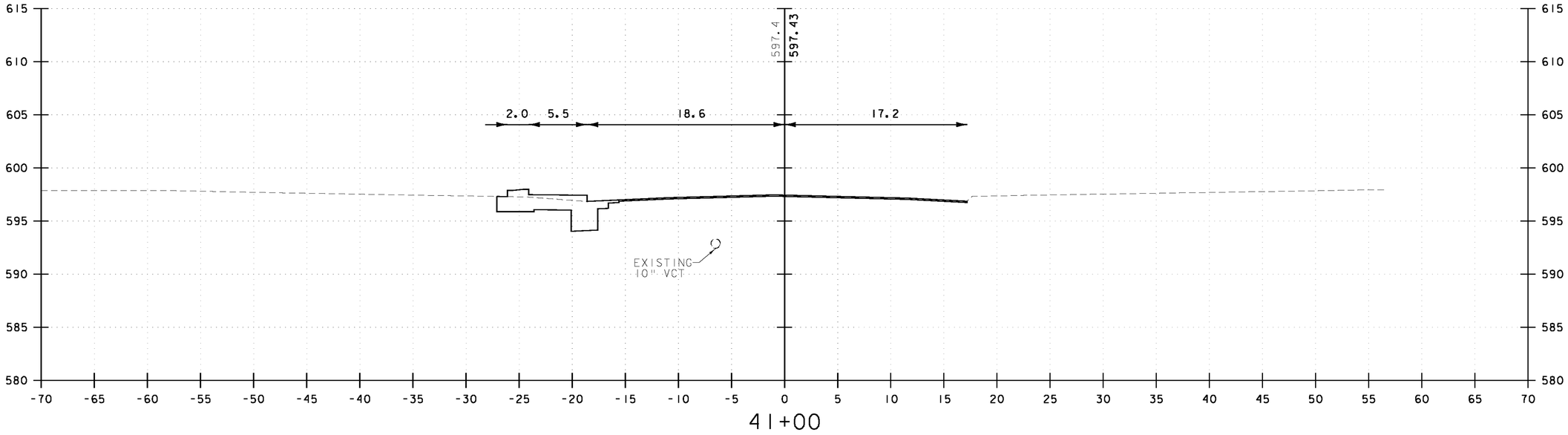
VHB Vanasse Hangen Brustlin, Inc.

SOUTH SEMINARY STREET

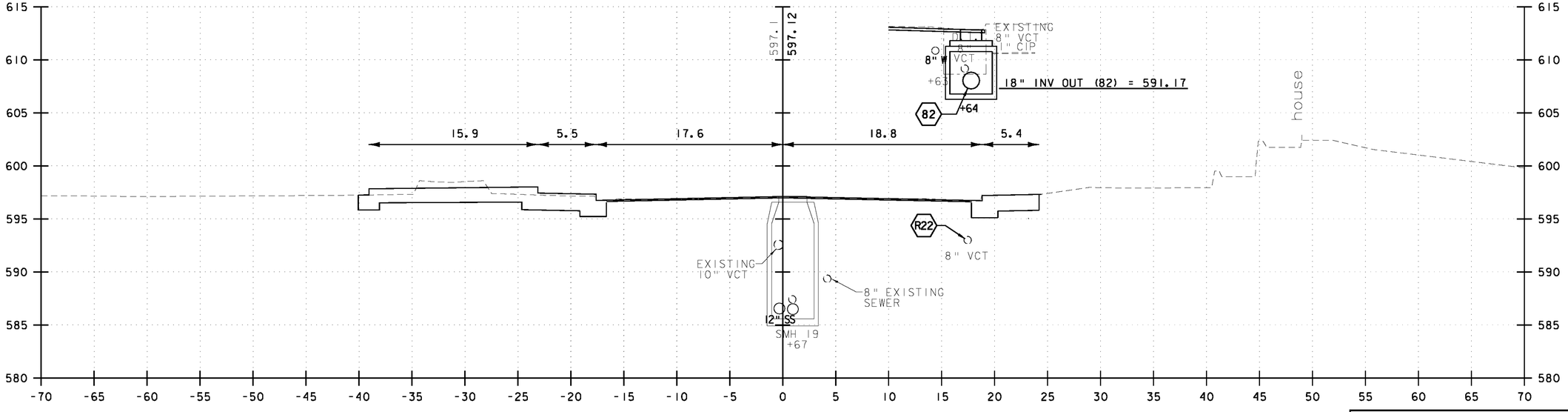
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 293 OF 339



41+00



40+50

5 0 5 10
FEET

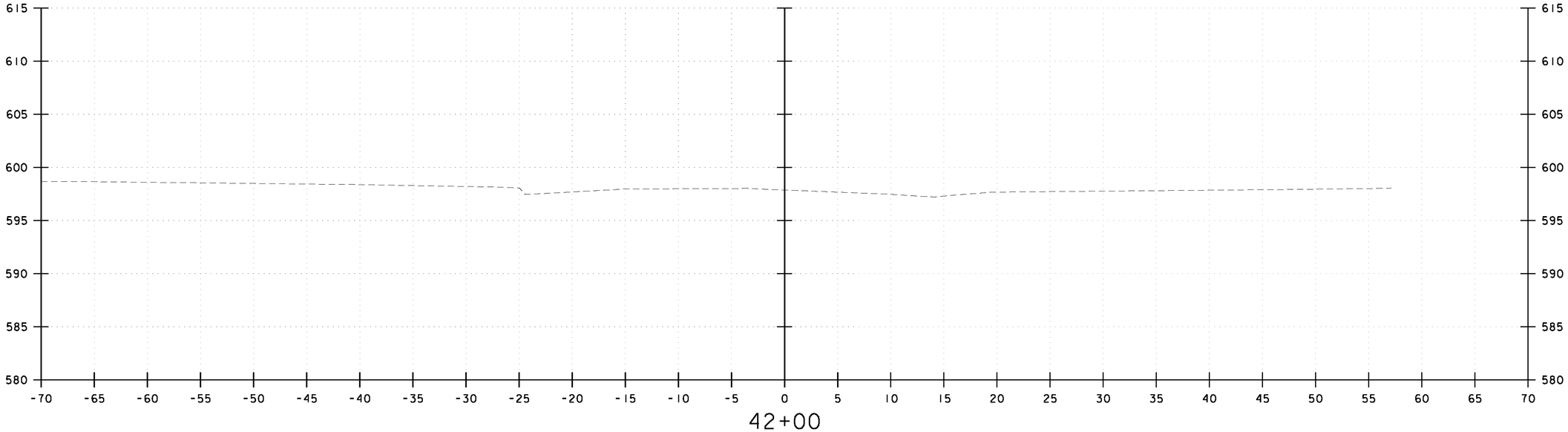
VHB Vanasse Hangen Brustlin, Inc.

SOUTH SEMINARY STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

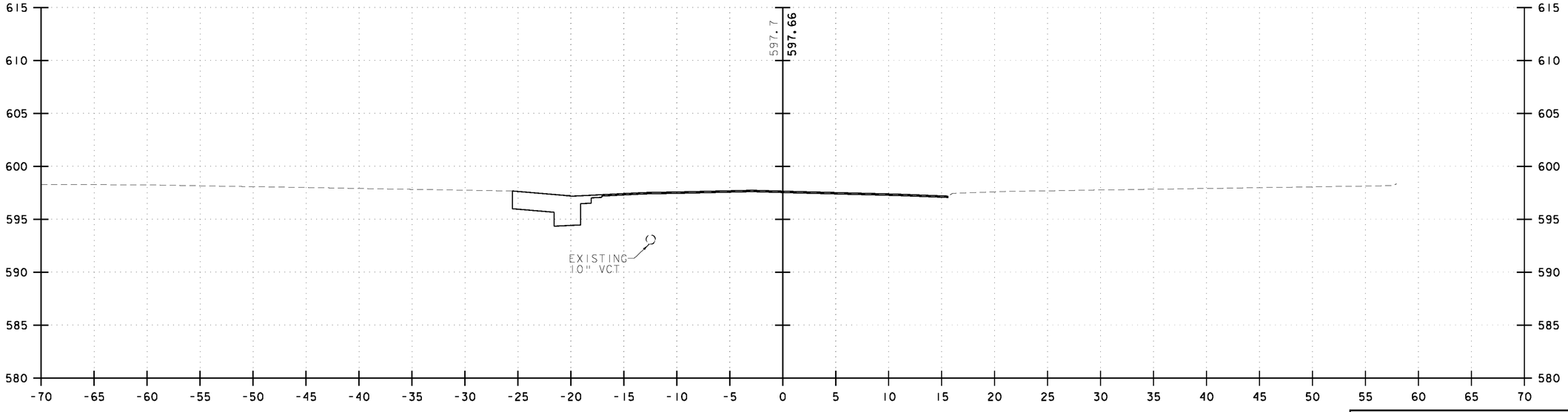
FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 294 OF 339



42+00

END APPROACH STA. 41+70



+45
DRIVE LT

41+50

5 0 5 10
FEET

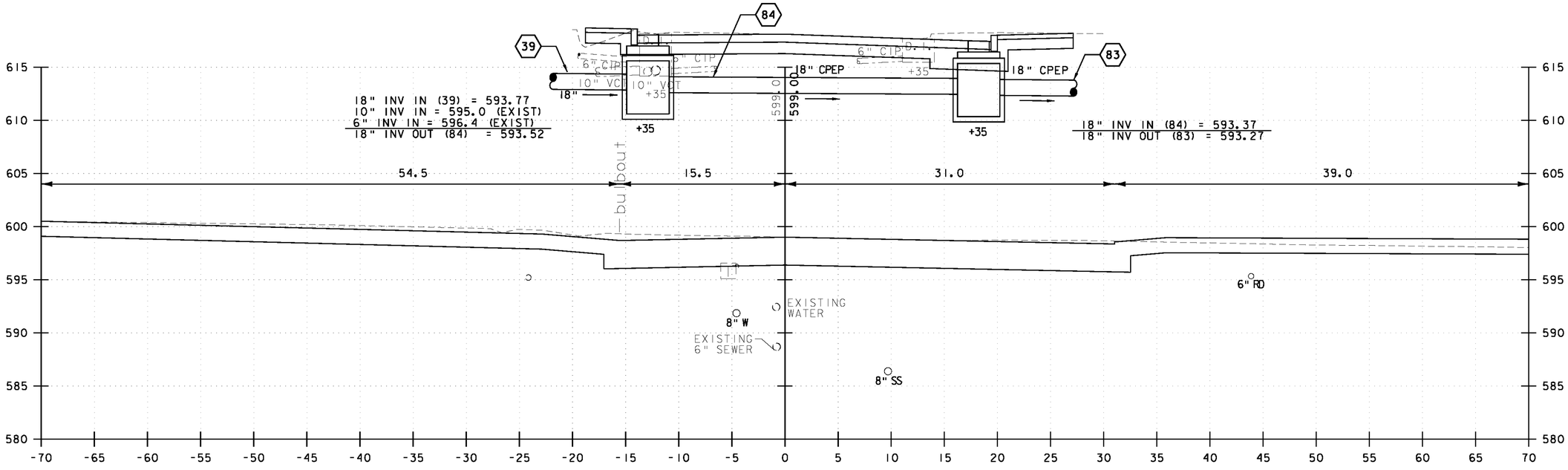
VHB Vanasse Hangen Brustlin, Inc.

SOUTH SEMINARY STREET

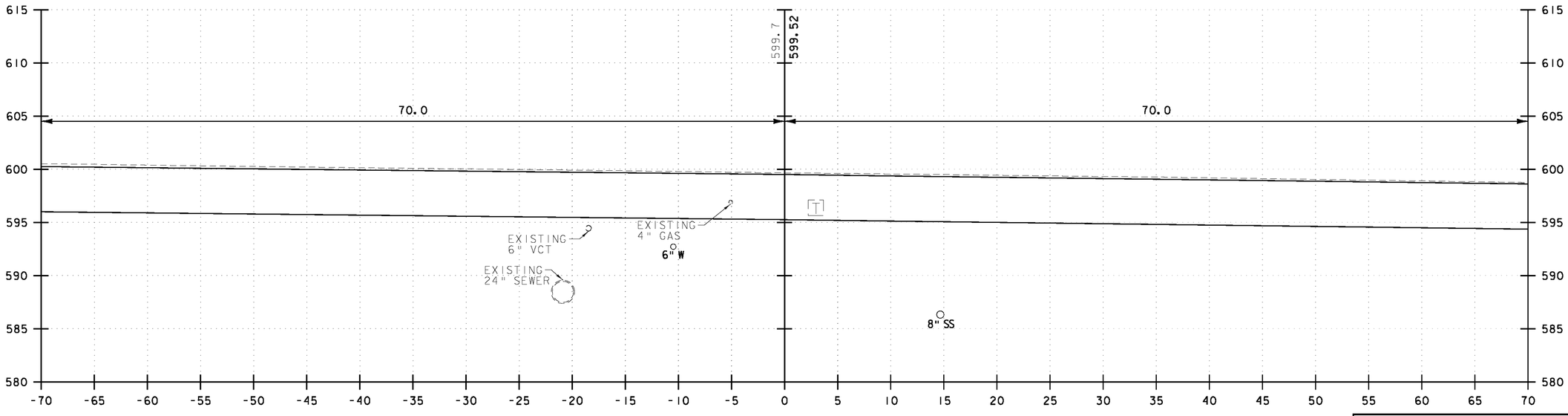
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 295 OF 339



50+25



50+00

5 0 5 10
FEET

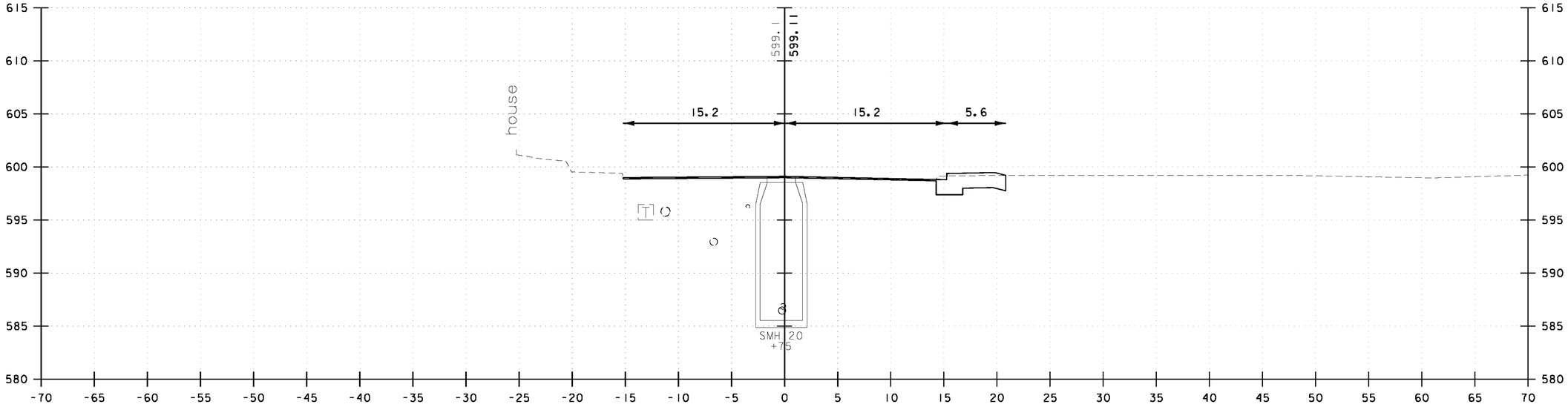
VHB Vanasse Hangen Brustlin, Inc.

GRANITE STREET

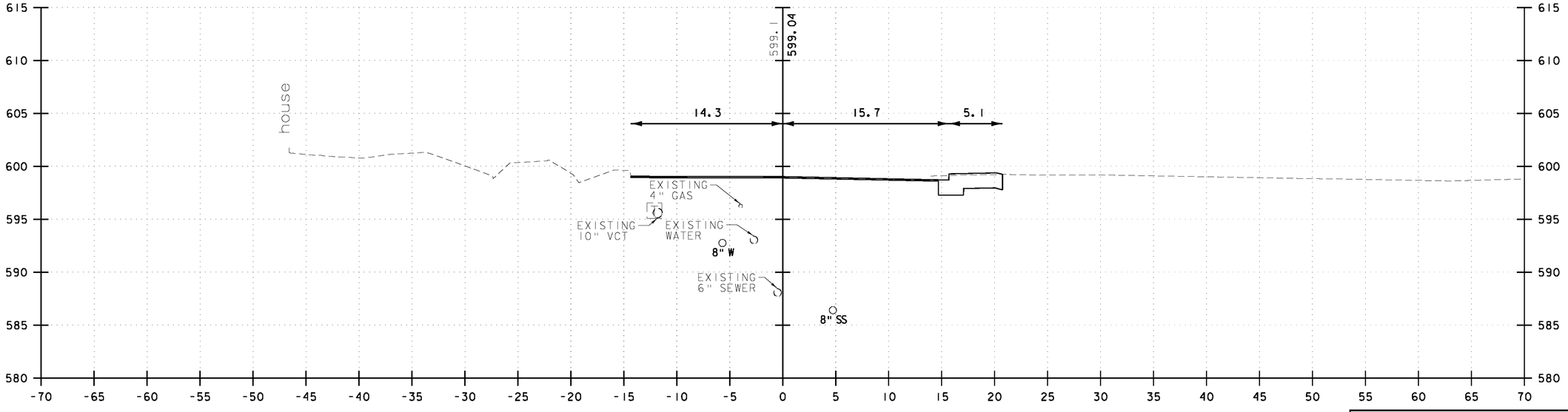
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 296 OF 339



50+75



50+50

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

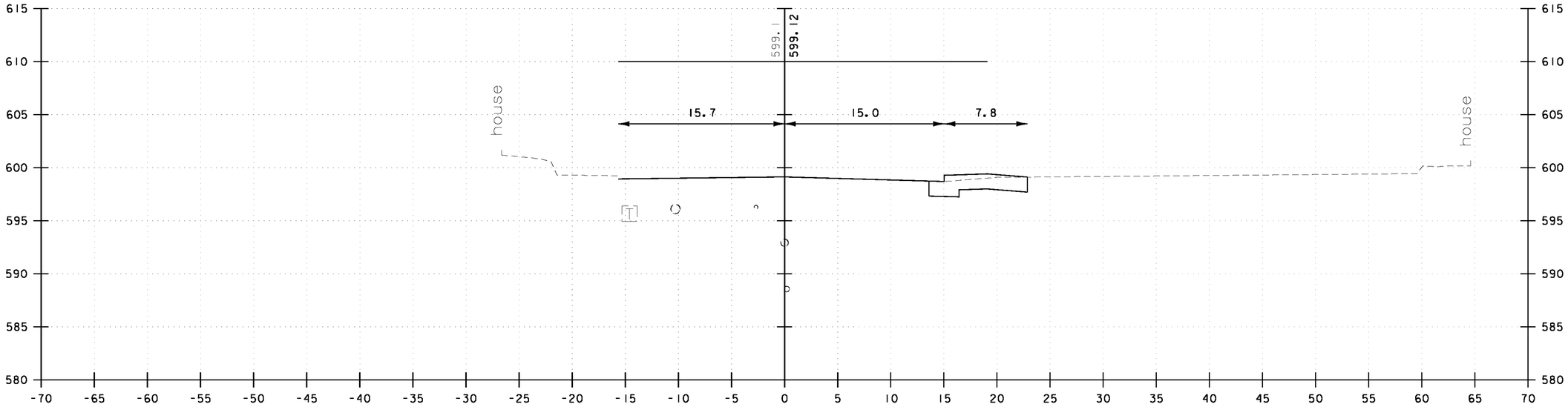
GRANITE STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

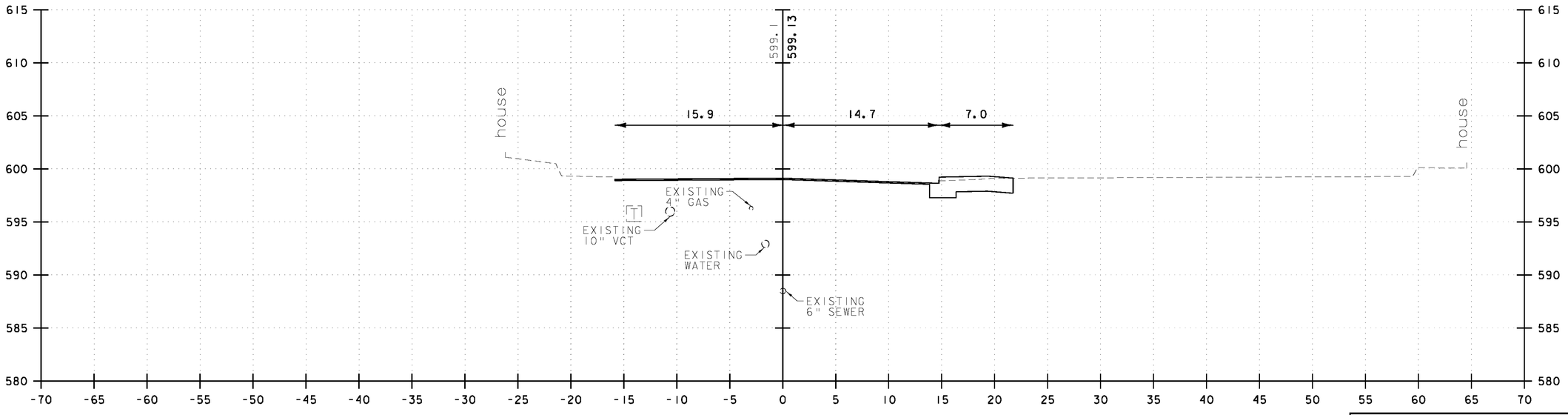
PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 297 OF 339

END APPROACH STA. 51+25



51+25

51+00



5 0 5 10
FEET

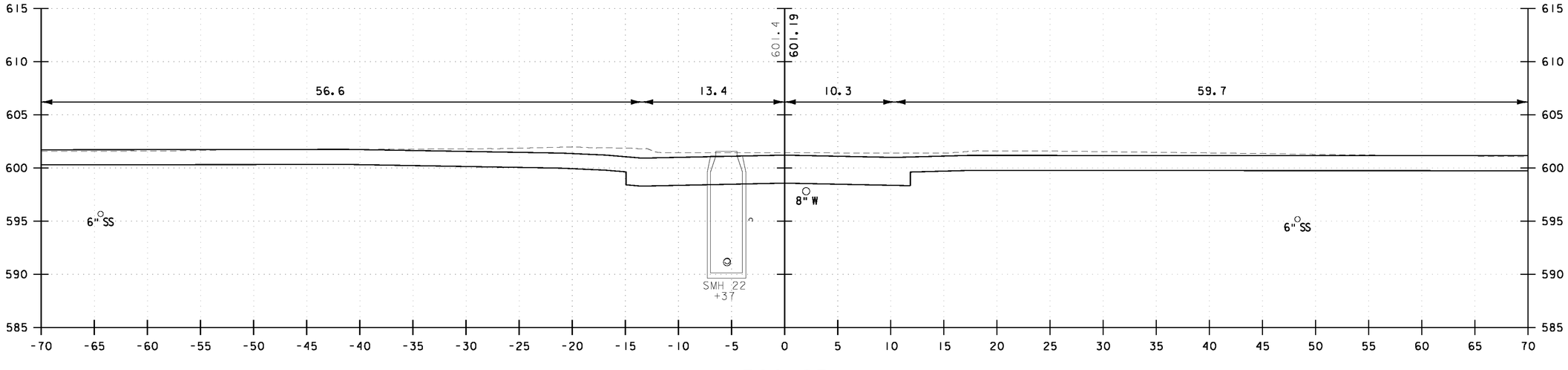
VHB Vanasse Hangen Brustlin, Inc.

GRANITE STREET

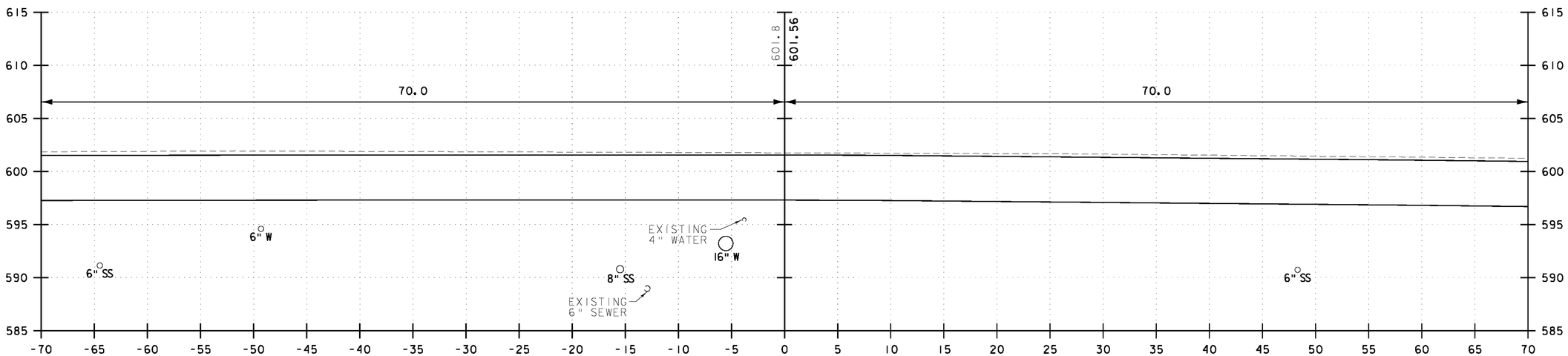
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 298 OF 339



300+25



300+00

5 0 5 10
FEET

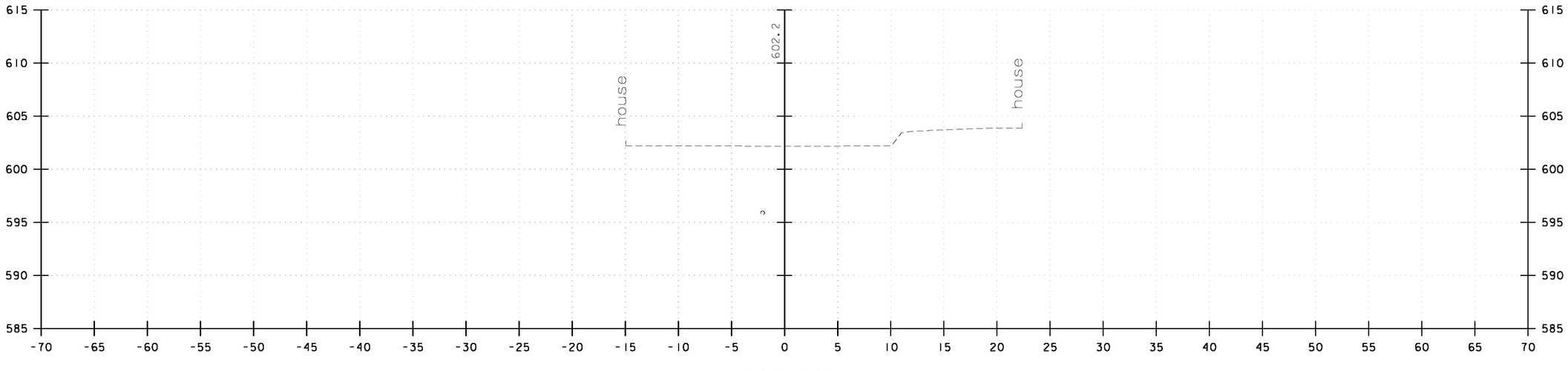
VHB Vanasse Hangen Brustlin, Inc.

CREAMERY COURT

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

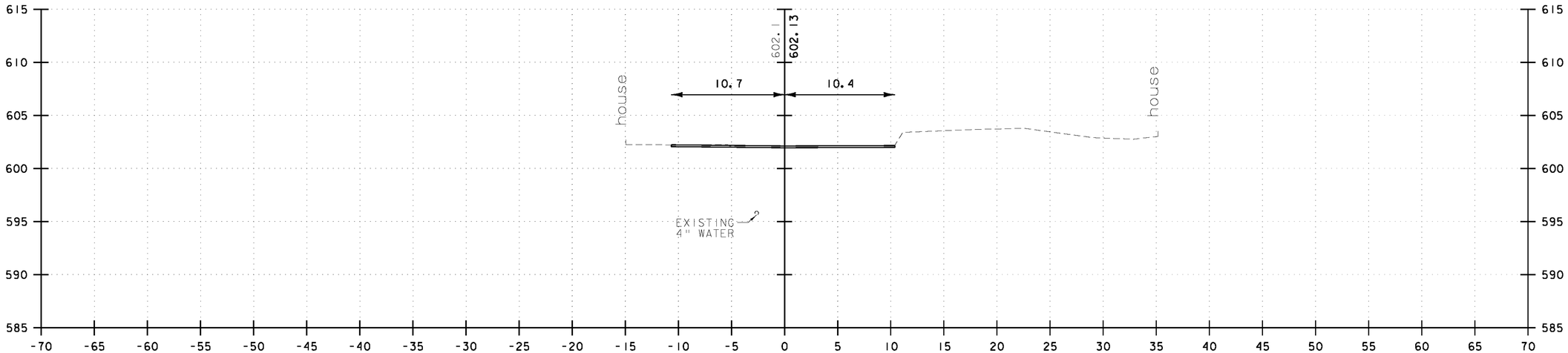
FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 299 OF 339



300+75

END APPROACH STA. 300+50



300+50

5 0 5 10
FEET

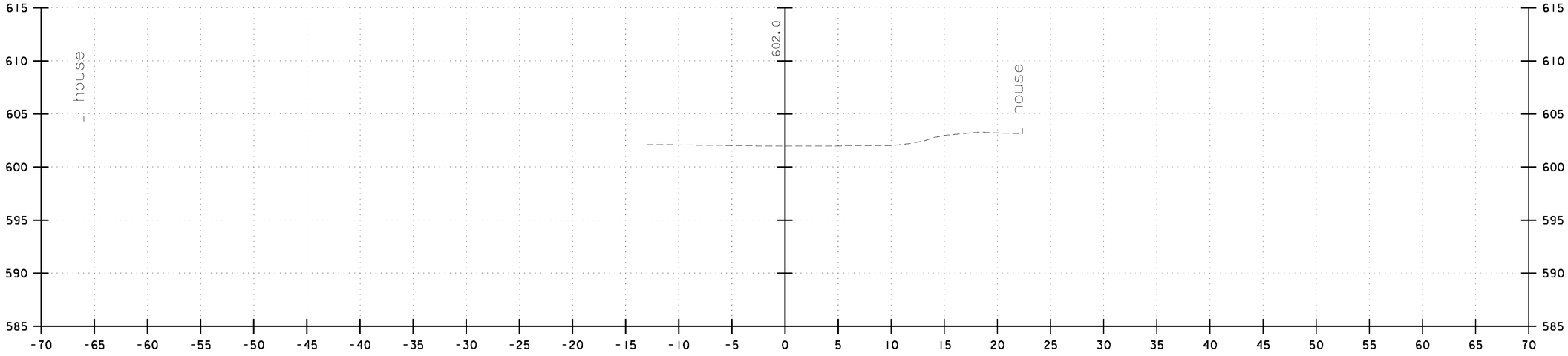
VHB Vanasse Hangen Brustlin, Inc.

CREAMERY COURT

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 300 OF 339



301+00

5 0 5 10
FEET

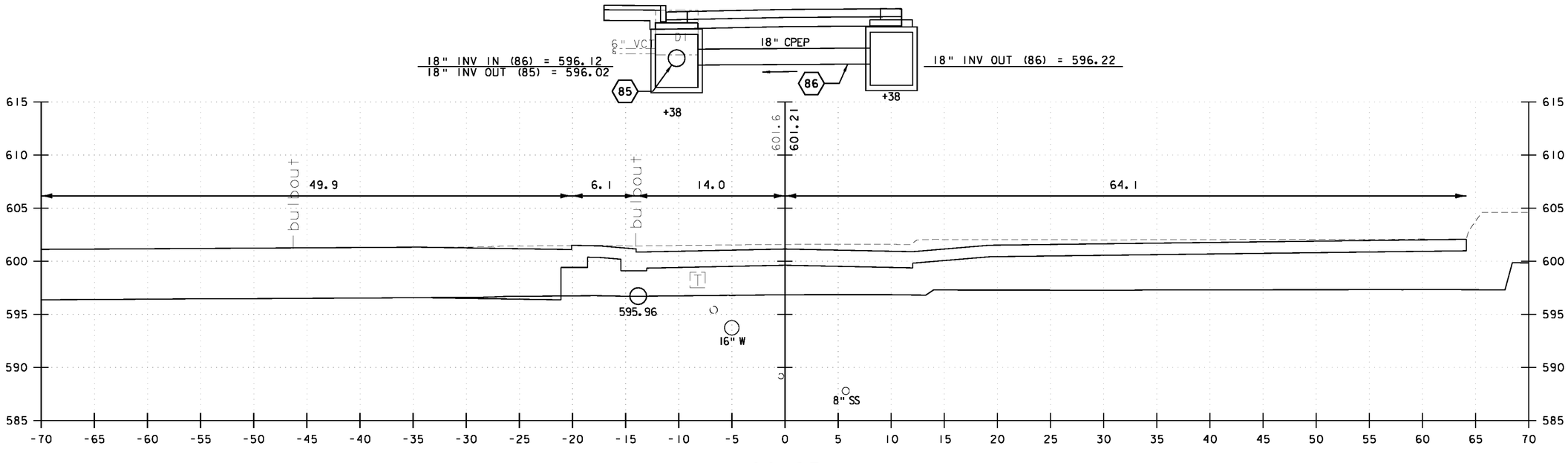
VHB Vanasse Hangen Brustlin, Inc.

CREAMERY COURT

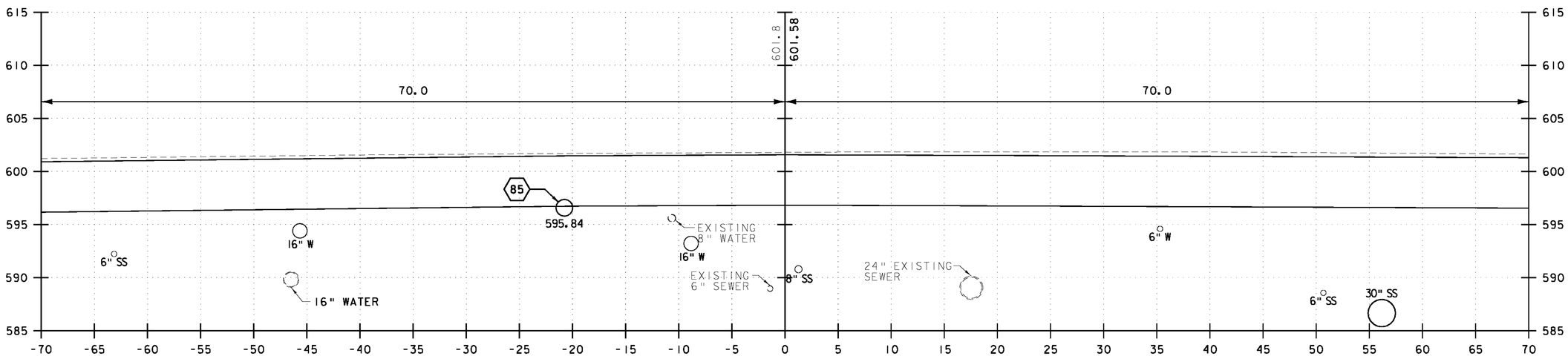
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 301 OF 339



60+25



60+00

5 0 5 10
FEET

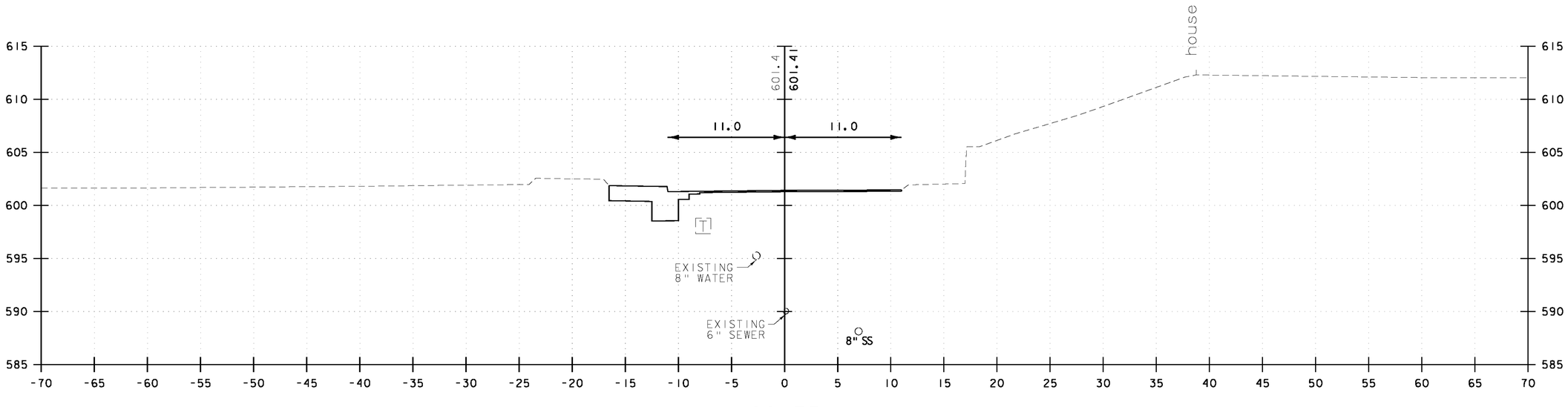
VHB Vanasse Hangen Brustlin, Inc.

WEST STREET

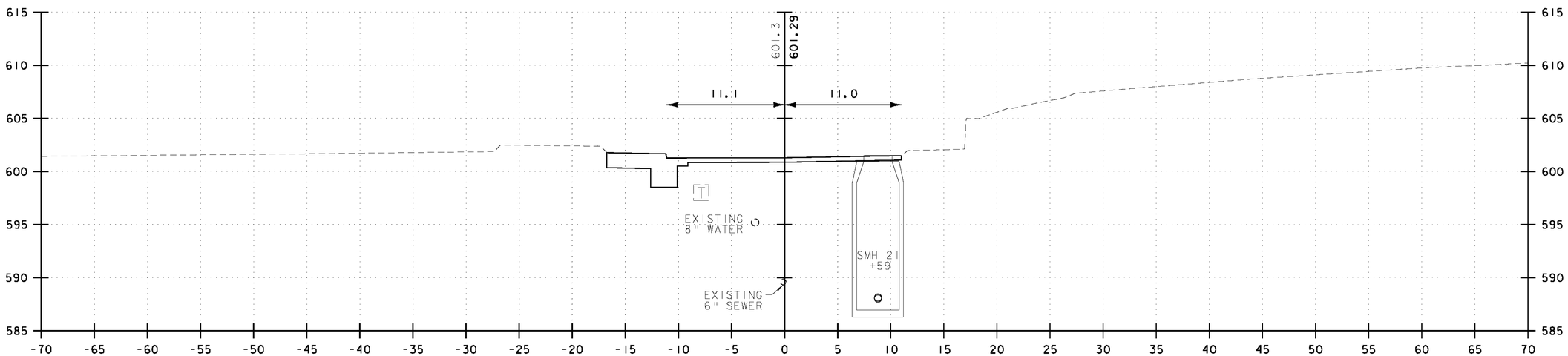
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 302 OF 339



60+75



60+50

5 0 5 10
FEET

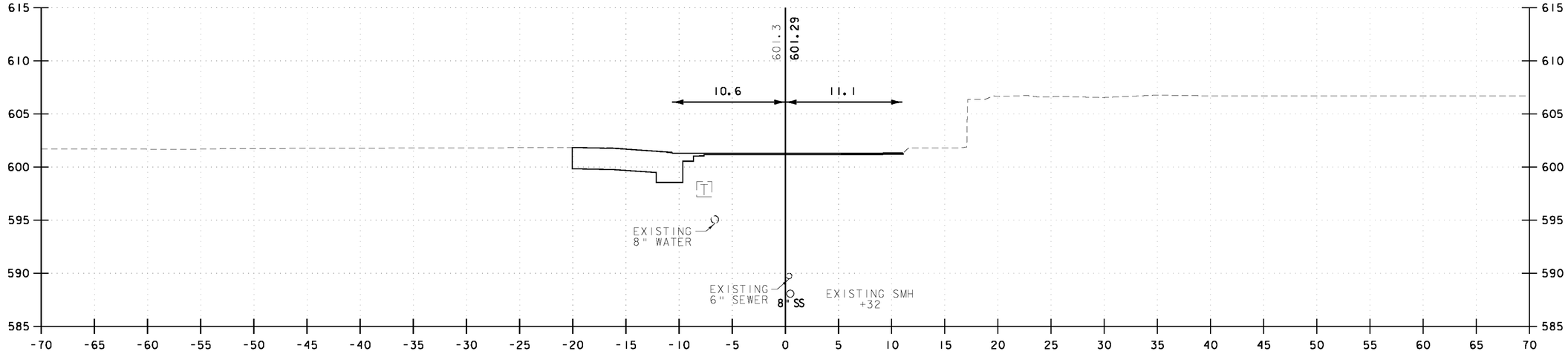
VHB Vanasse Hangen Brustlin, Inc.

WEST STREET

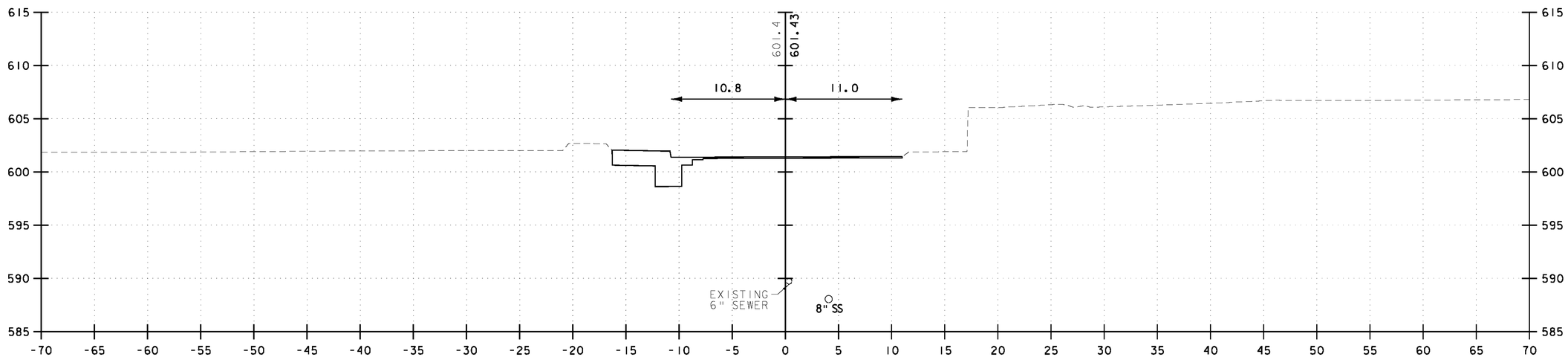
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 303 OF 339



61+29



61+00

5 0 5 10
FEET

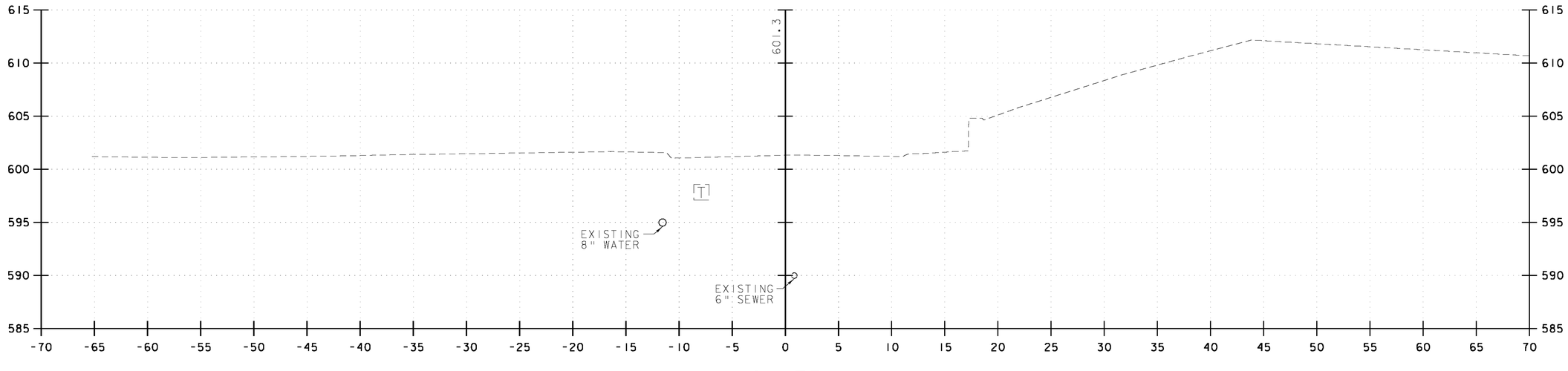
VHB Vanasse Hangen Brustlin, Inc.

WEST STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

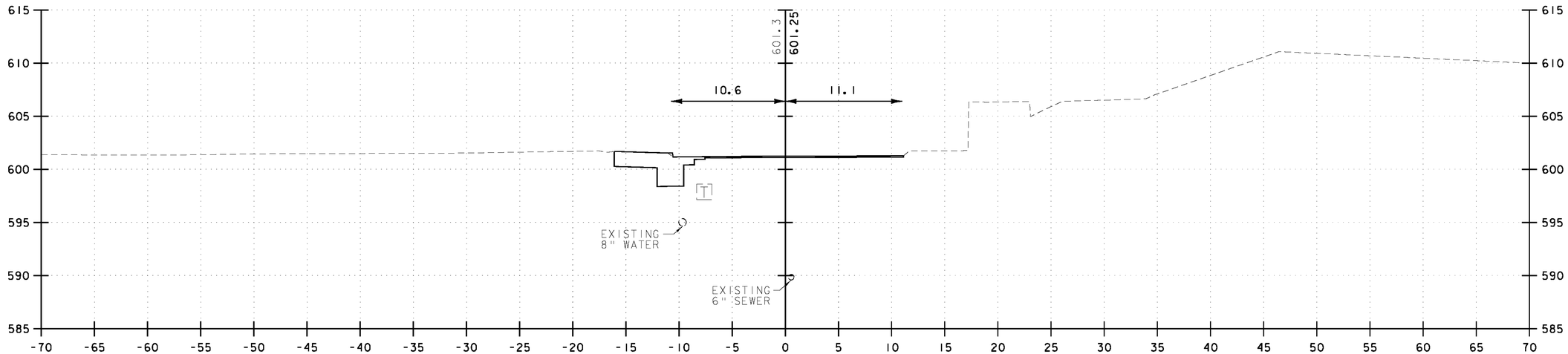
FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 304 OF 339



61+75

END APPROACH STA. 61+65



61+50

5 0 5 10
FEET

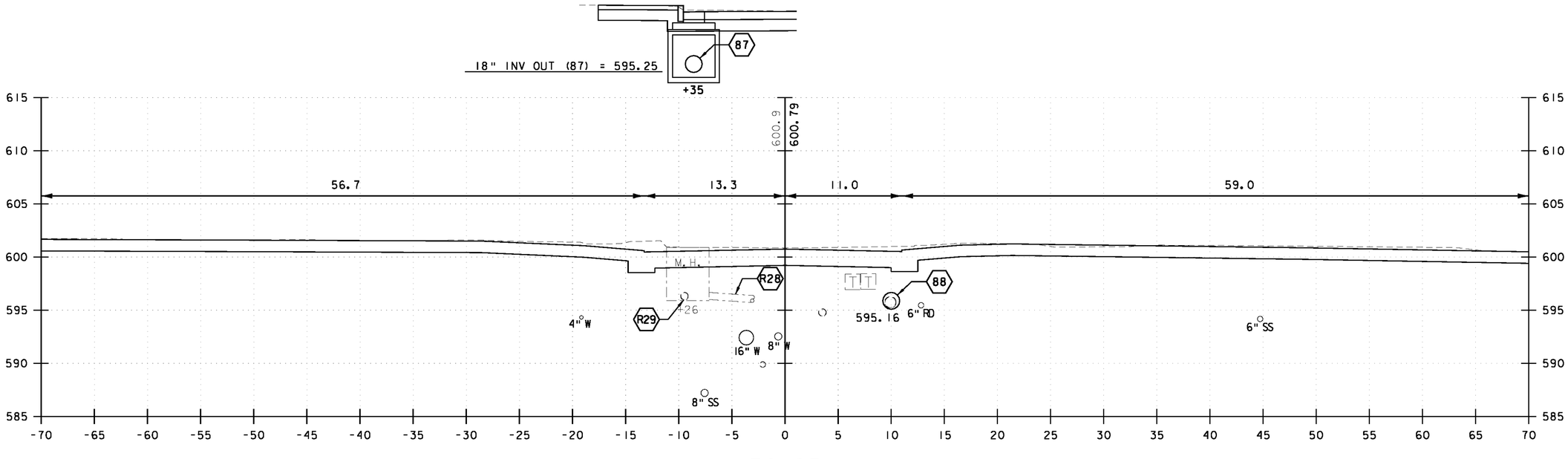
VHB Vanasse Hangen Brustlin, Inc.

WEST STREET

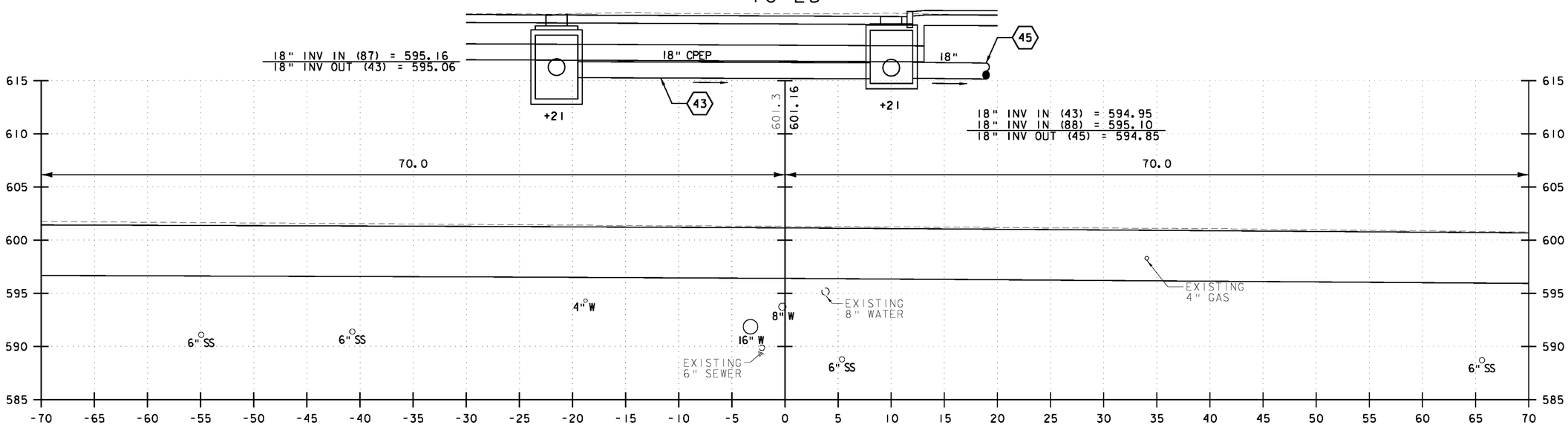
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 305 OF 339



70+25



70+00

5 0 5 10
FEET

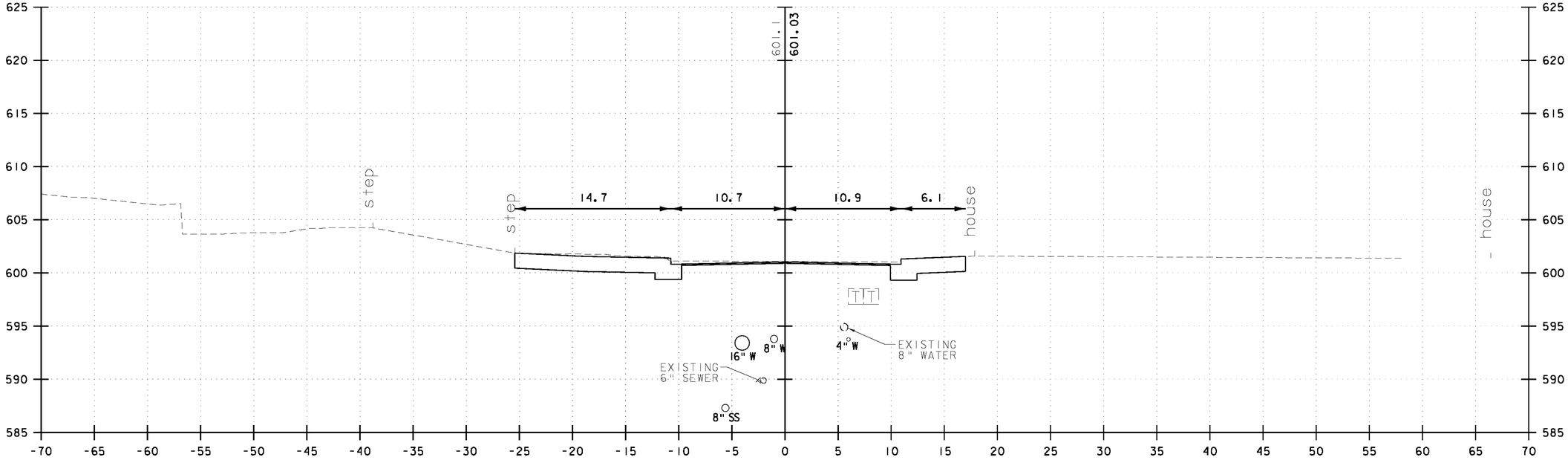
VHB Vanasse Hangen Brustlin, Inc.

MERCHANT STREET

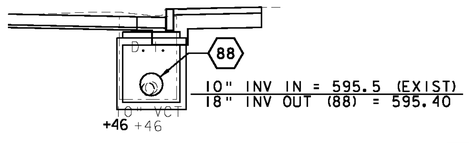
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 306 OF 339



70+50



5 0 5 10
FEET

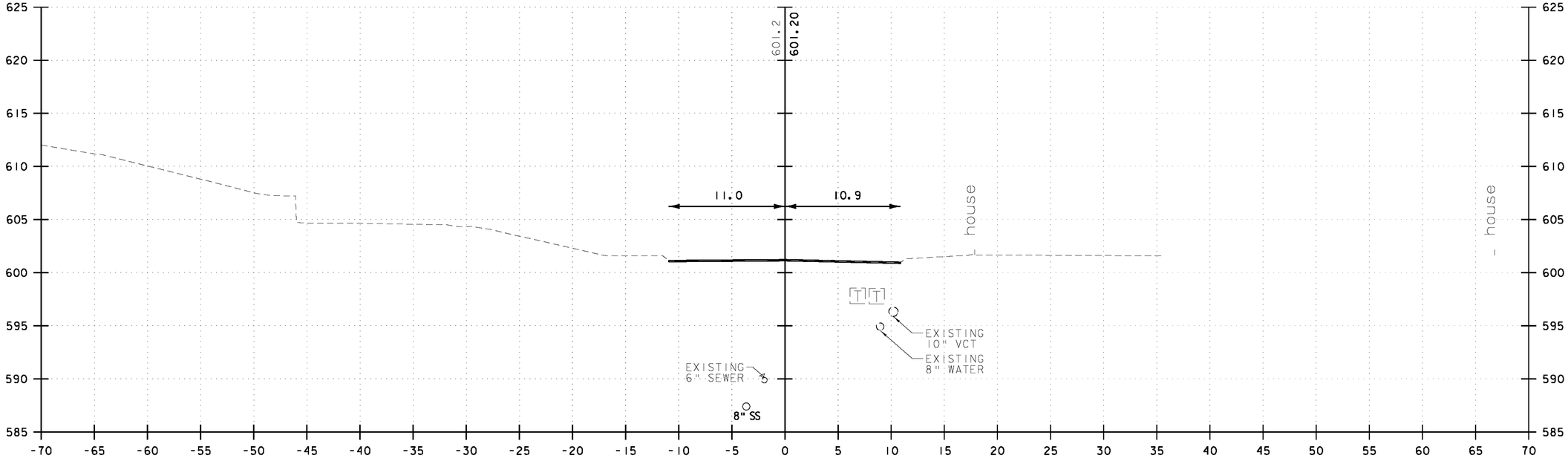
VHB Vanasse Hangen Brustlin, Inc.

MERCHANT STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 307 OF 339



70+75

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

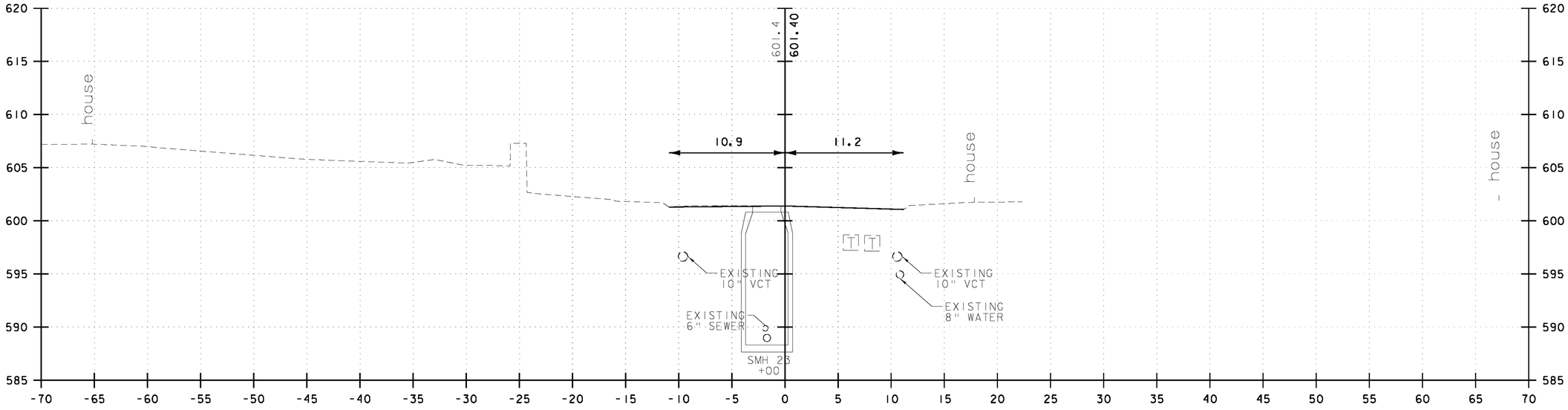
MERCHANT STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 308 OF 339

END APPROACH STA. 71+00



71+00

5 0 5 10
FEET

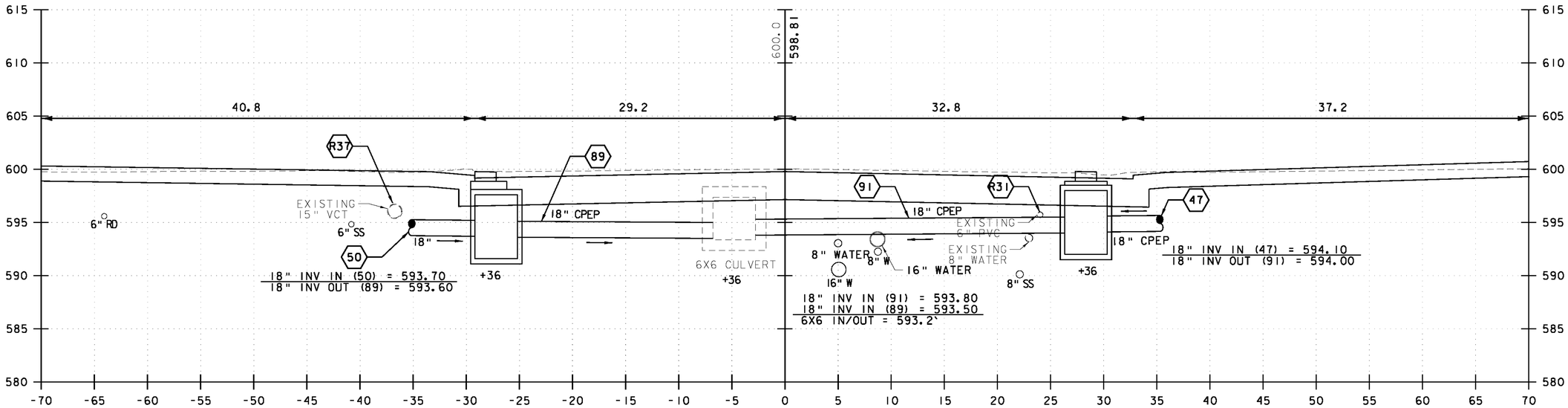
VHB Vanasse Hangen Brustlin, Inc.

MERCHANT STREET

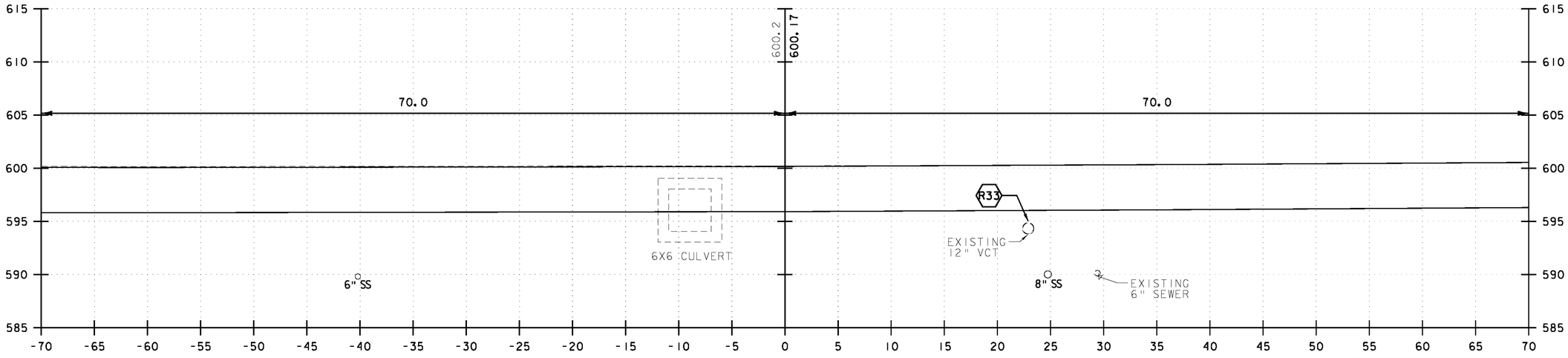
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 309 OF 339



80+25

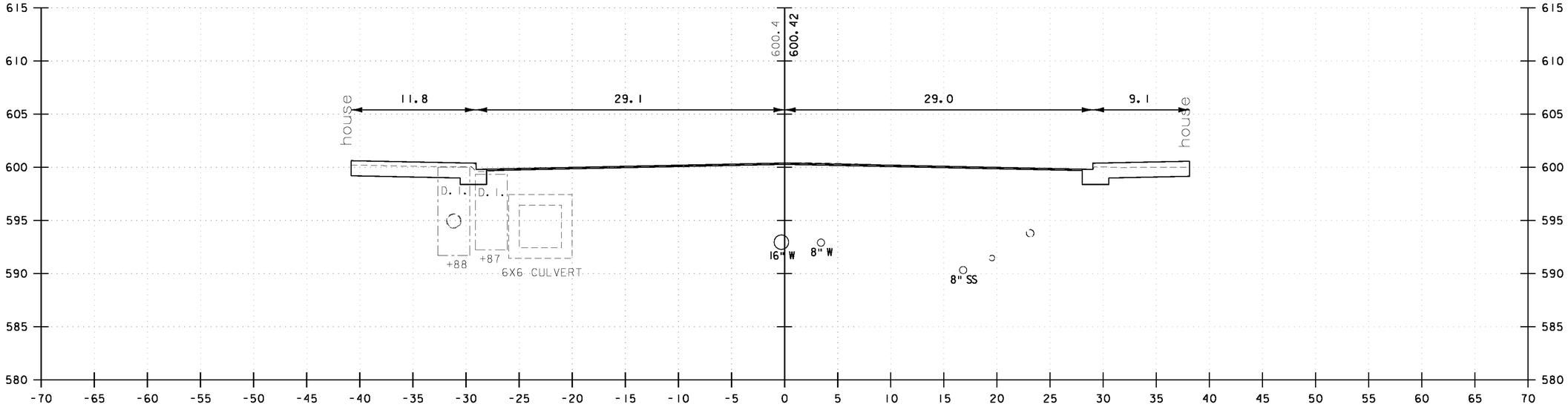


80+00

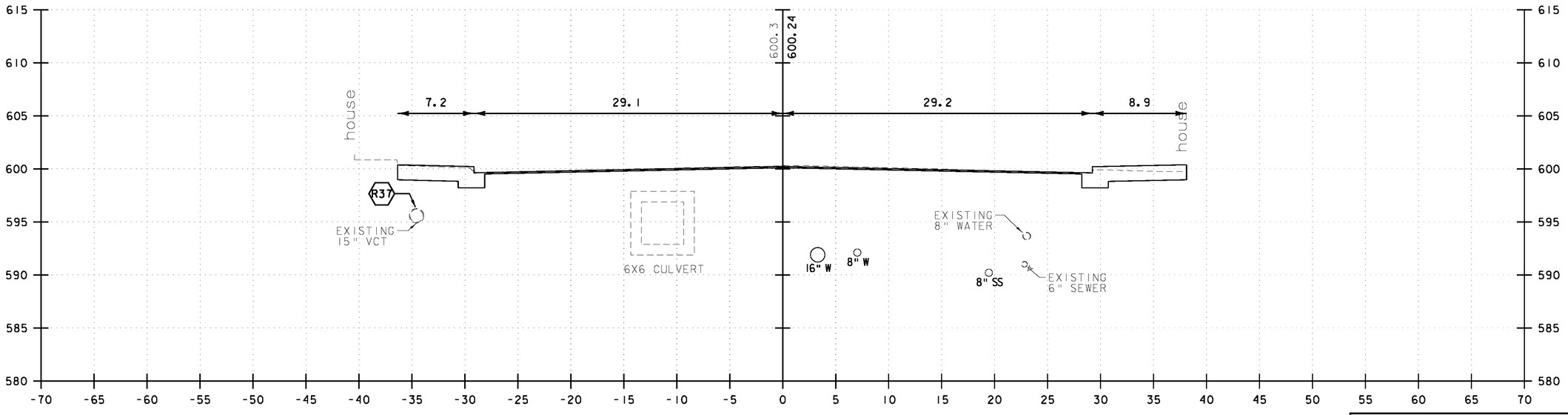
5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

DEPOT SQUARE	
PROJECT NAME: BARRE CITY	
PROJECT NUMBER: FEGC F 026-1(34) C/2	
FILE NAME: 85b010_xs2_Cut_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CROSS SECTIONS	SHEET 310 OF 339



80+75



80+50

5 0 5 10
FEET

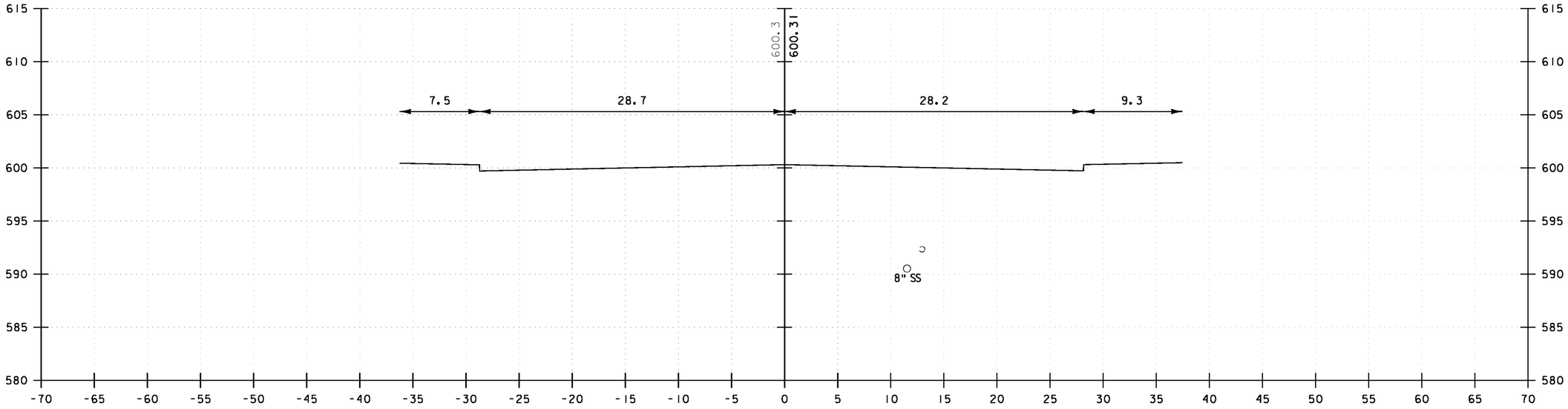
VHB Vanasse Hangen Brustlin, Inc.

DEPOT SQUARE

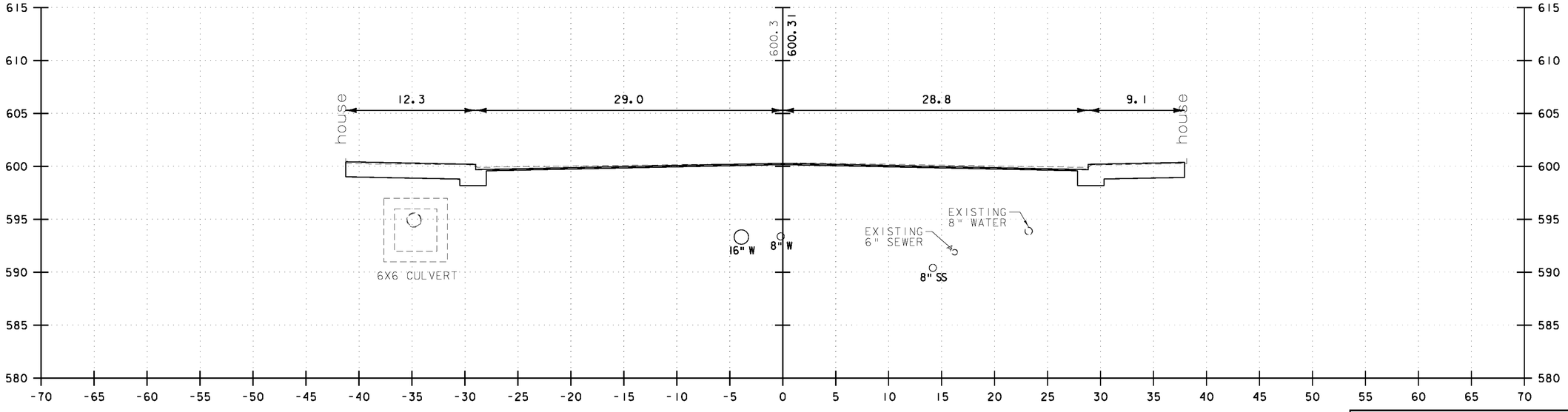
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 311 OF 339



81+25

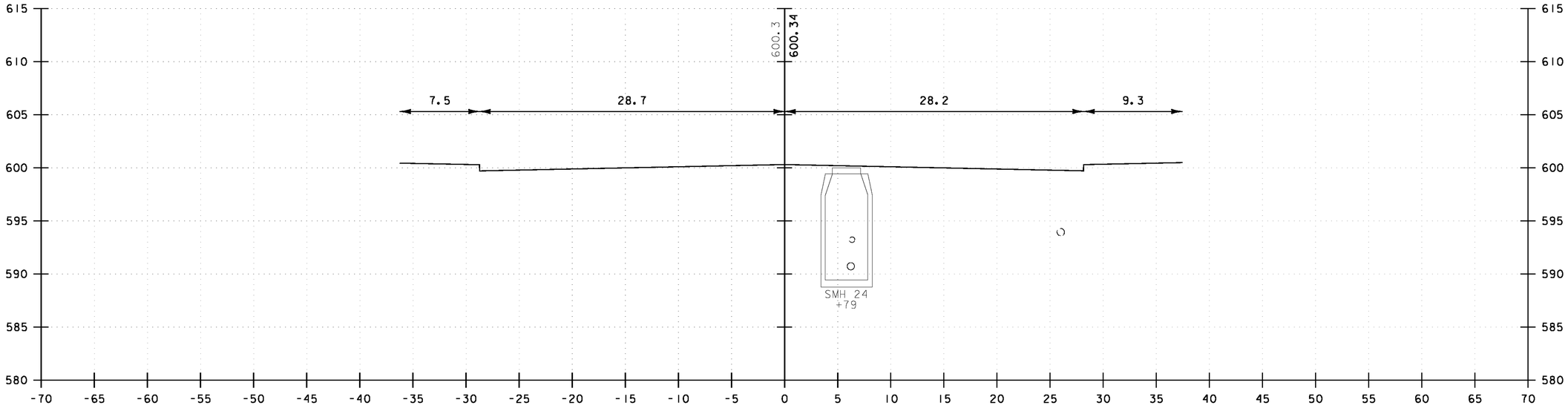


81+00

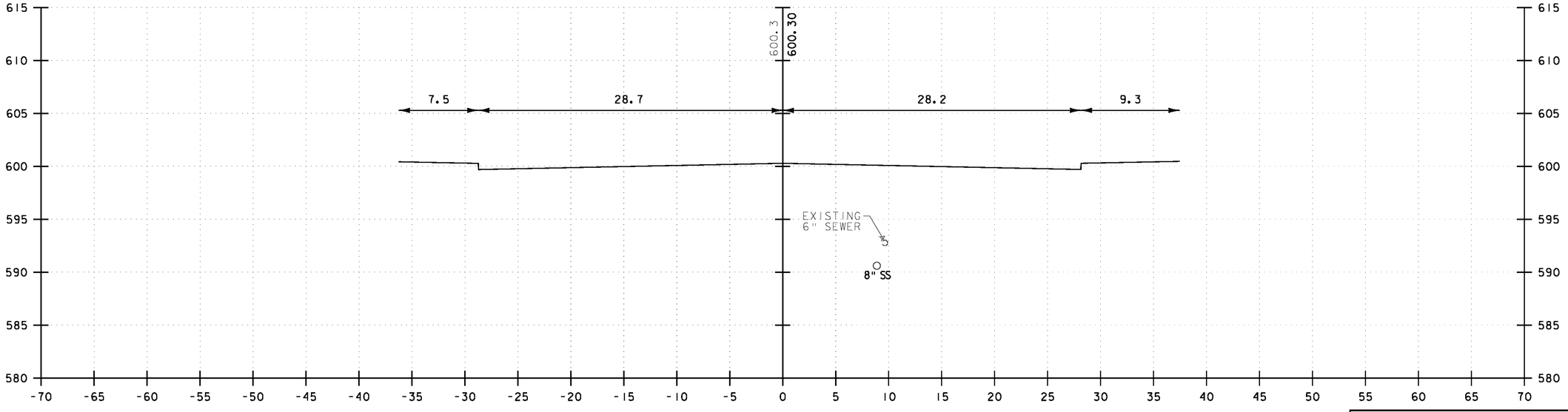
5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

DEPOT SQUARE	
PROJECT NAME: BARRE CITY	
PROJECT NUMBER: FEGC F 026-1(34) C/2	
FILE NAME: 85b0110_xs2_Cut_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CROSS SECTIONS	SHEET 312 OF 339



81+75



81+50

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

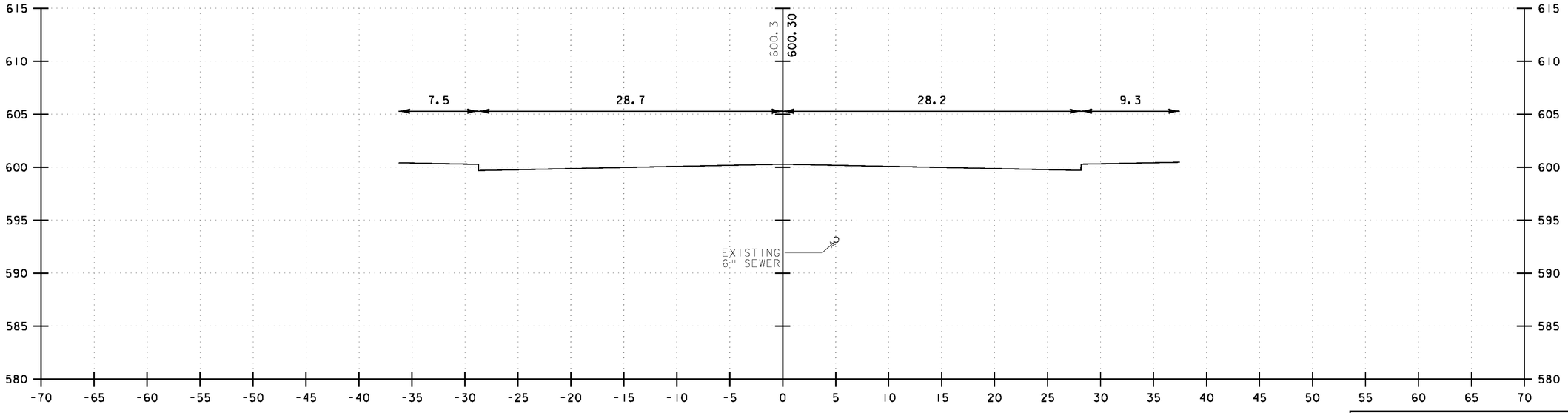
DEPOT SQUARE

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 313 OF 339

END APPROACH STA. 81+85



81+85

5 0 5 10
FEET

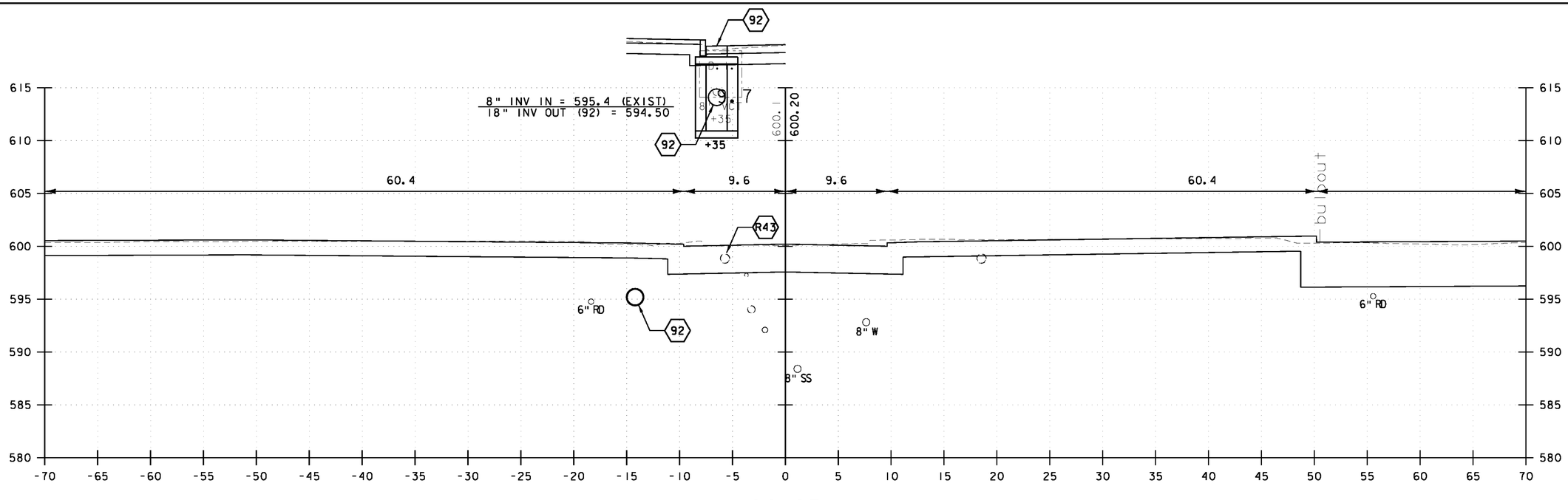
VHB Vanasse Hangen Brustlin, Inc.

DEPOT SQUARE

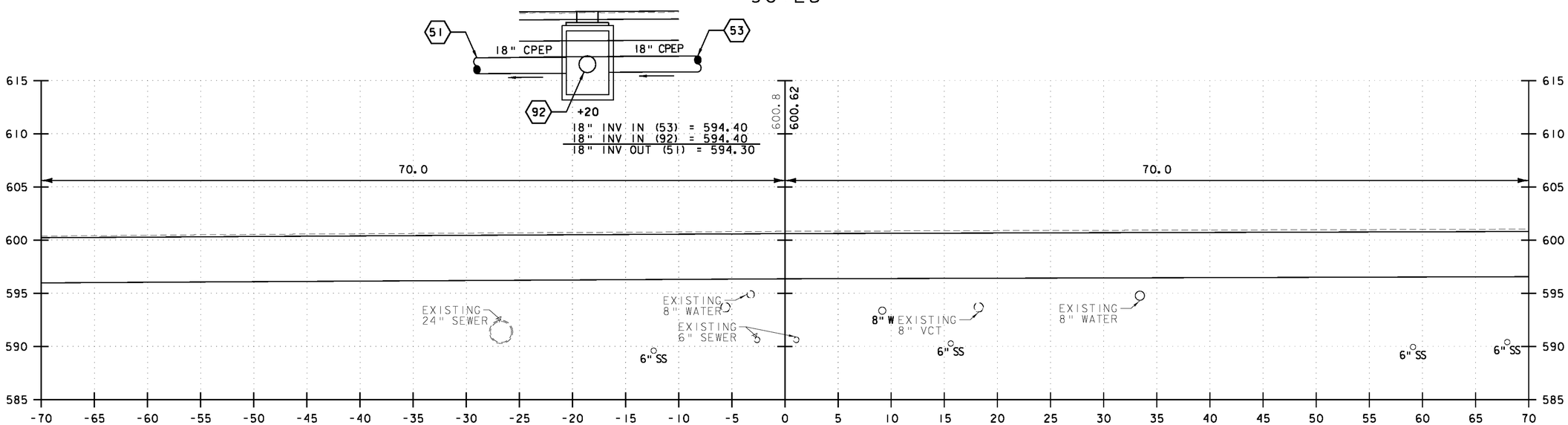
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 314 OF 339



90+25



90+00

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

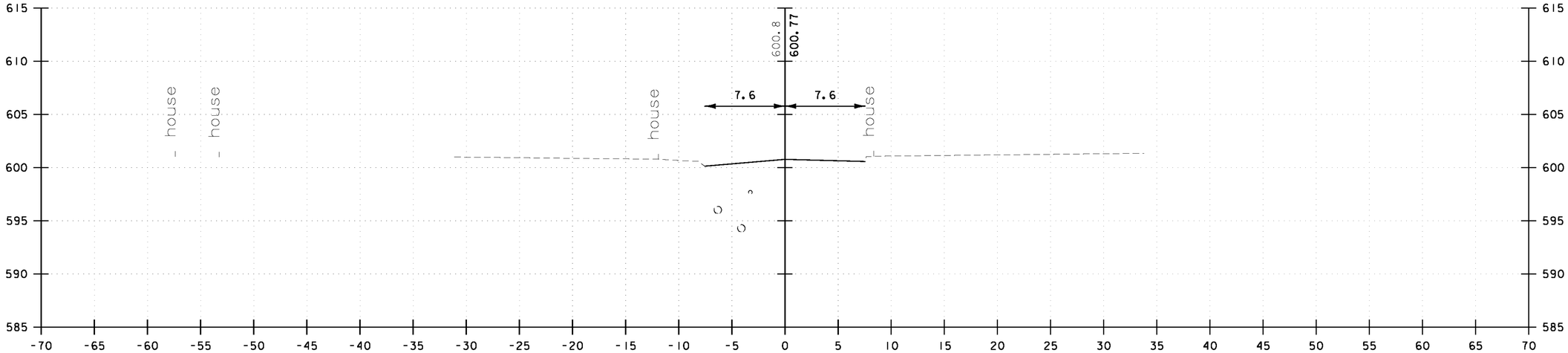
PEARL STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

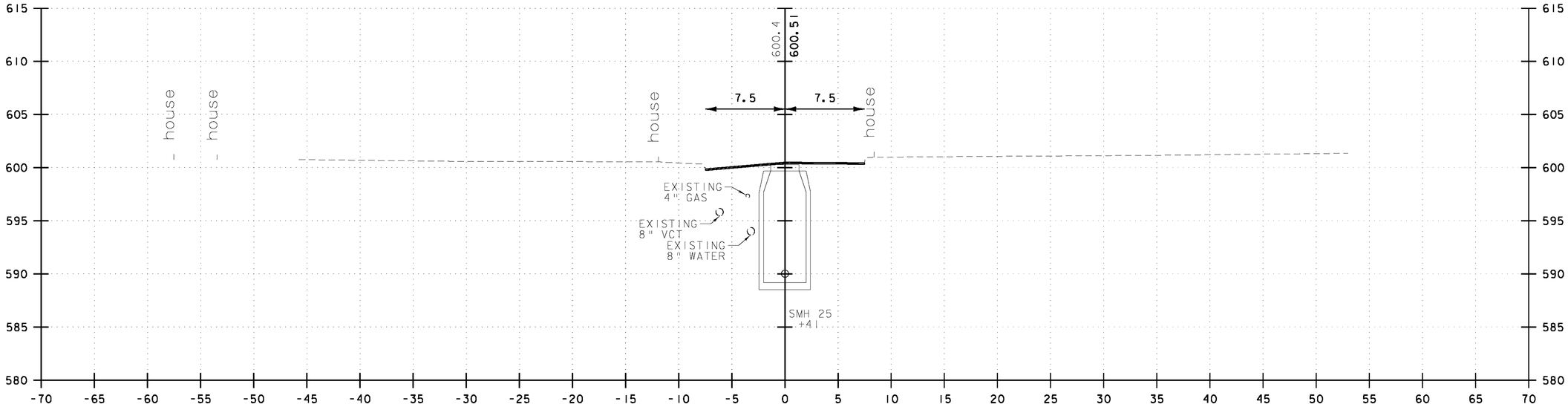
FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 315 OF 339

END APPROACH STA. 90+75



90+75

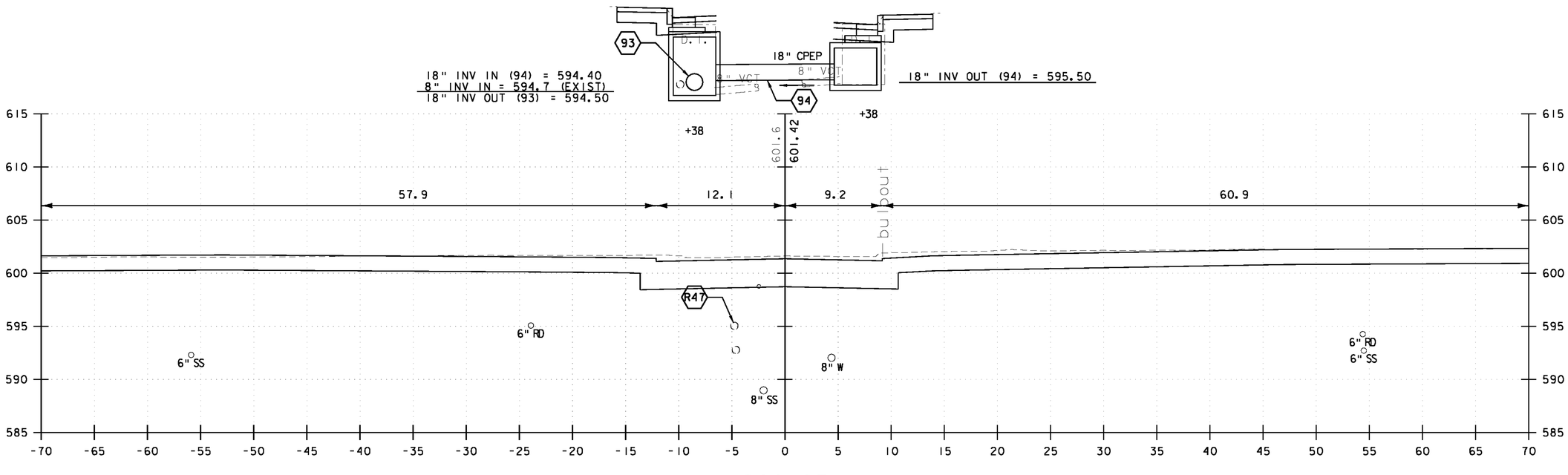


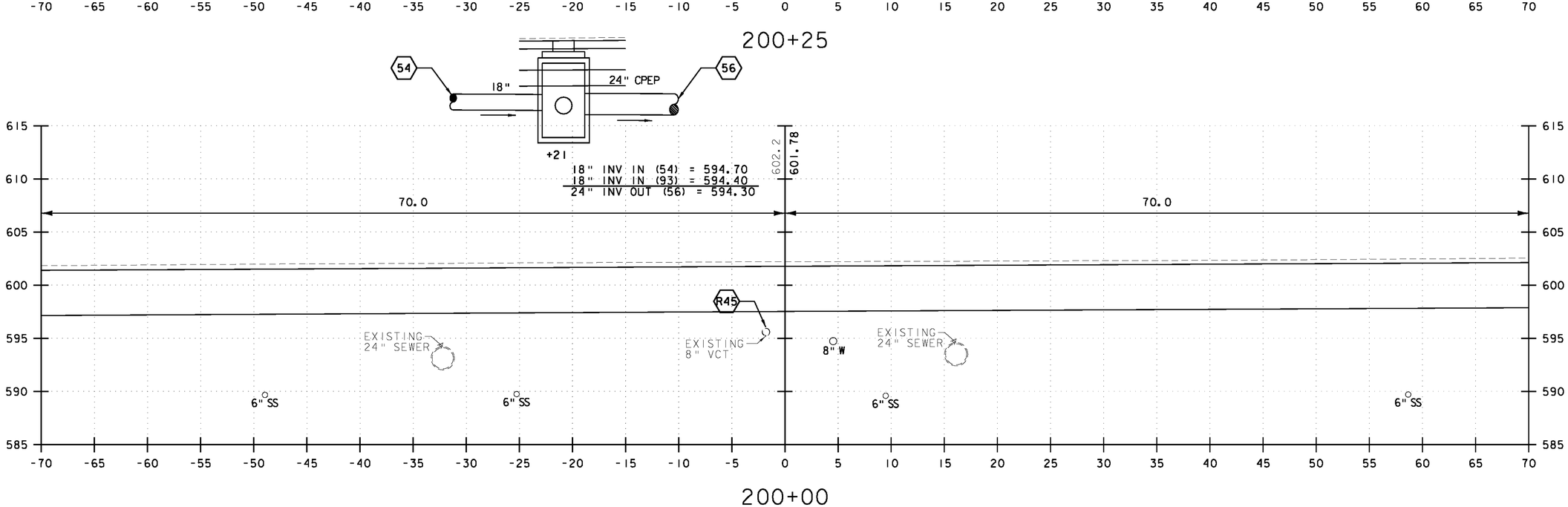
90+50

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

PEARL STREET	
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010_xs2_Cut_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CROSS SECTIONS	SHEET 316 OF 339





5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

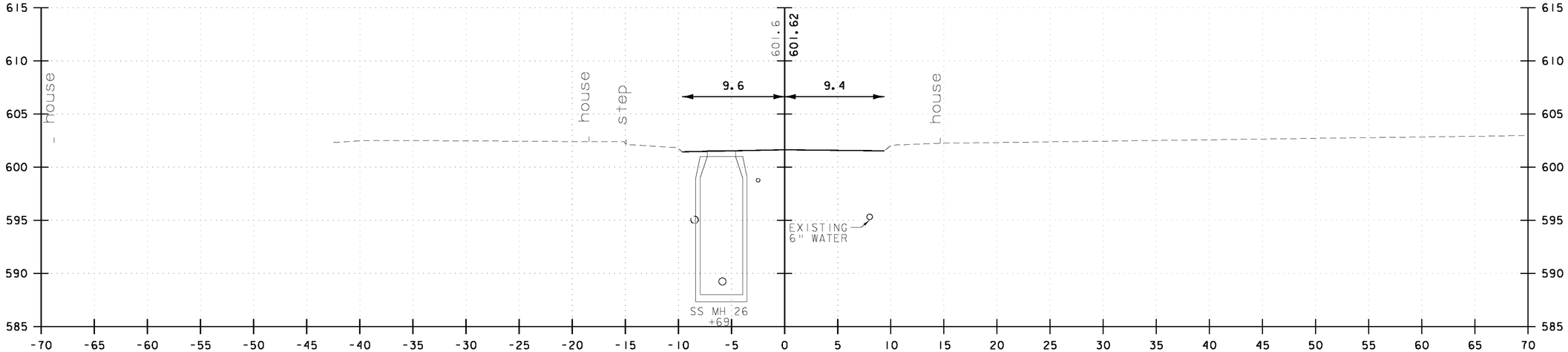
KEITH AVENUE

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

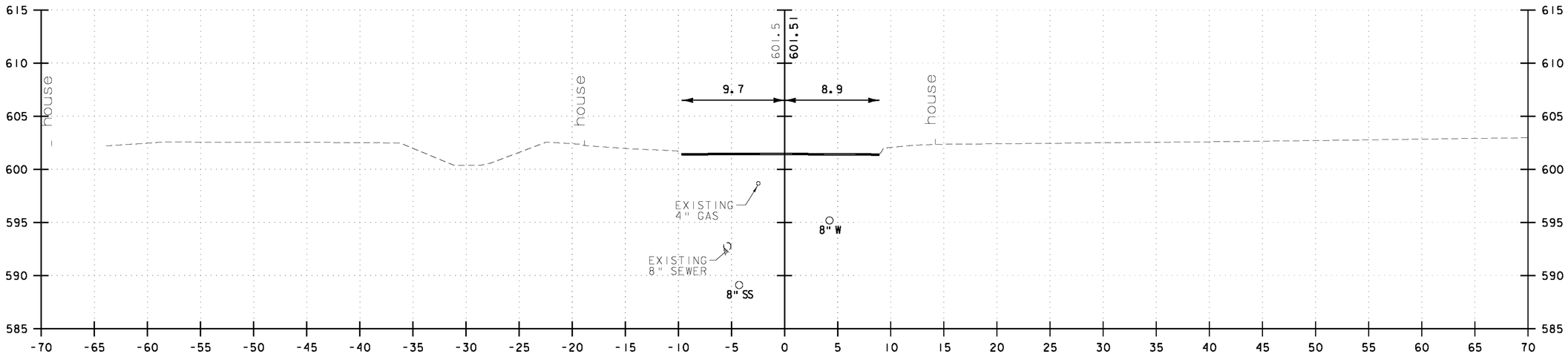
FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 317 OF 339

END APPROACH STA. 200+70



200+70

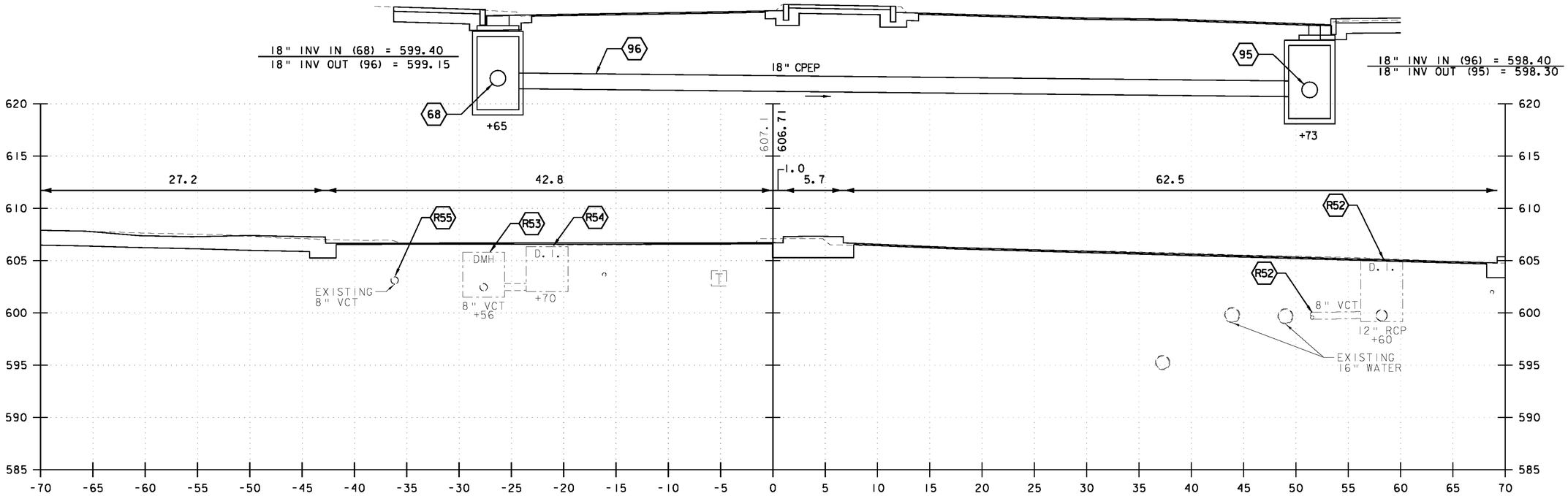


200+50

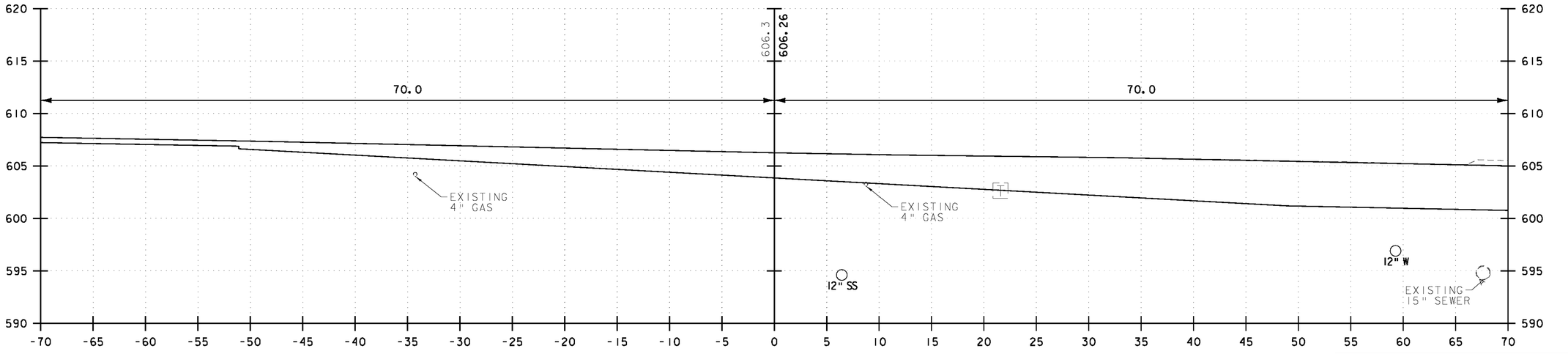
5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

KEITH AVENUE	
PROJECT NAME: BARRE CITY	
PROJECT NUMBER: FEGC F 026-1(34) C/2	
FILE NAME: 85b010_xs2_Cut_C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CROSS SECTIONS	SHEET 318 OF 339



600+50



600+00

5 0 5 10
FEET

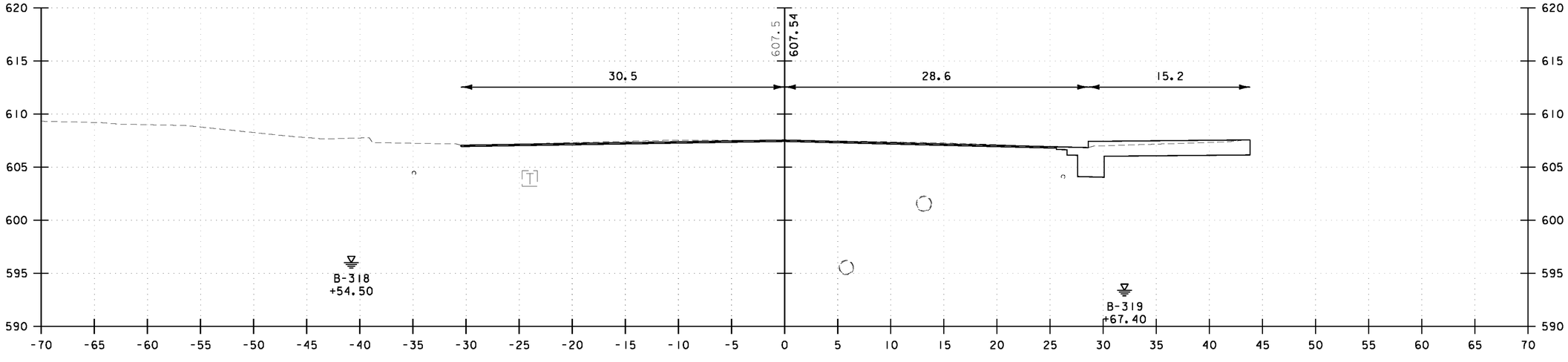
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET

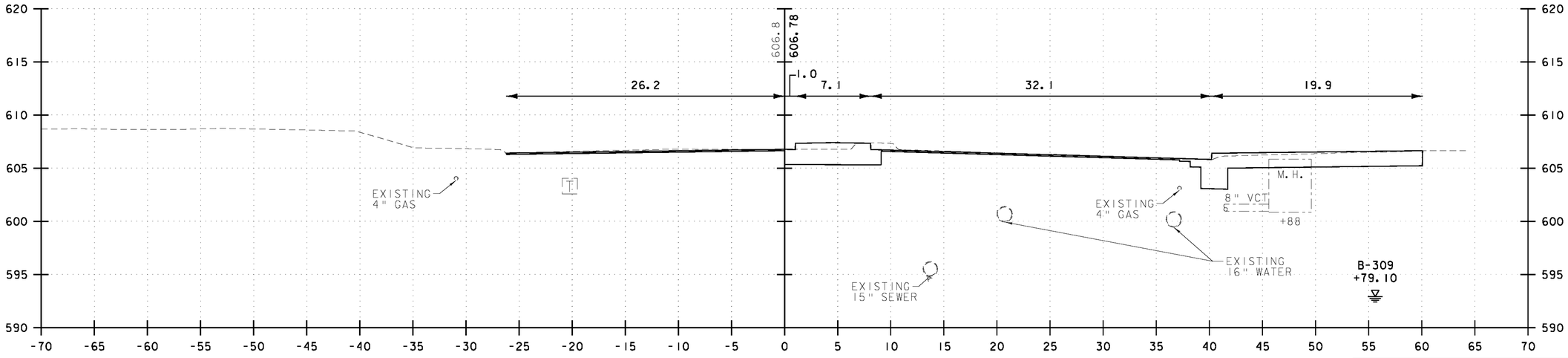
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 319 OF 339



601+50



601+00

5 0 5 10
FEET

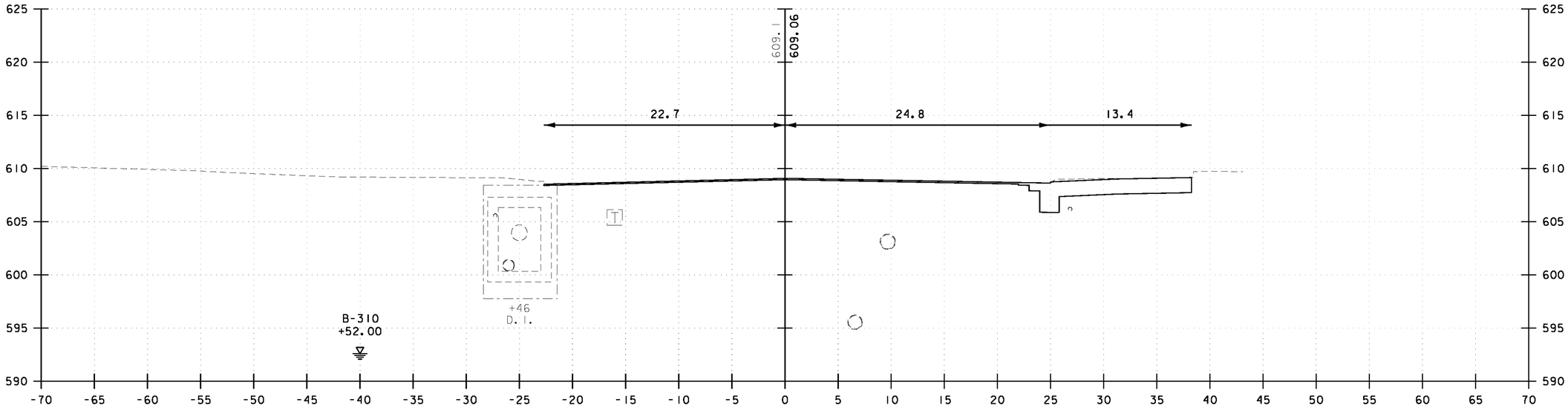
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET

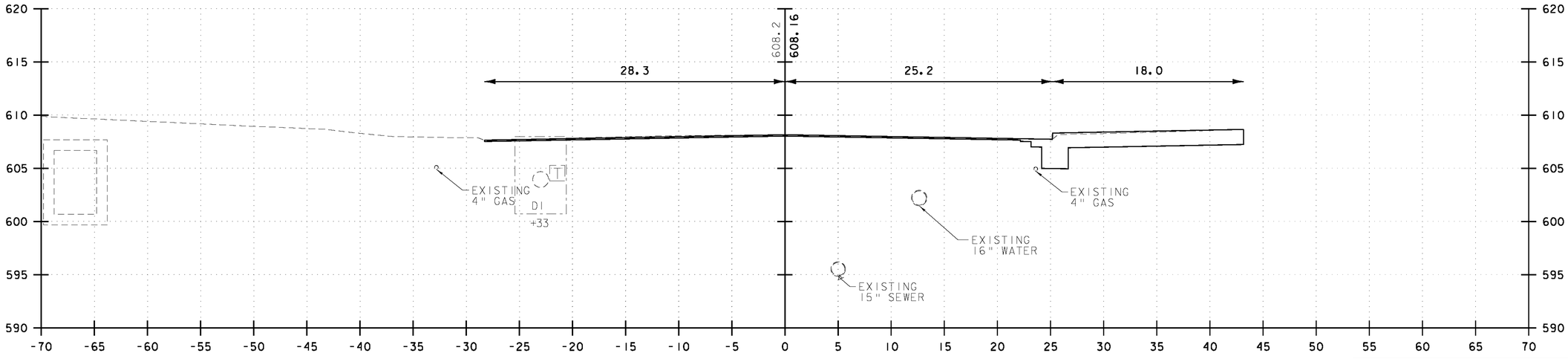
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 320 OF 339



602+50



602+00

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

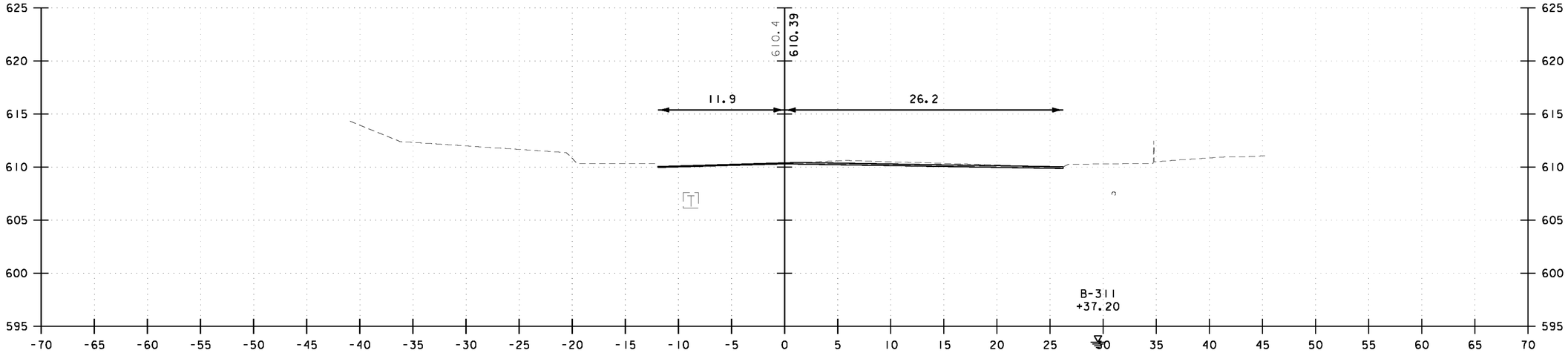
NORTH MAIN STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

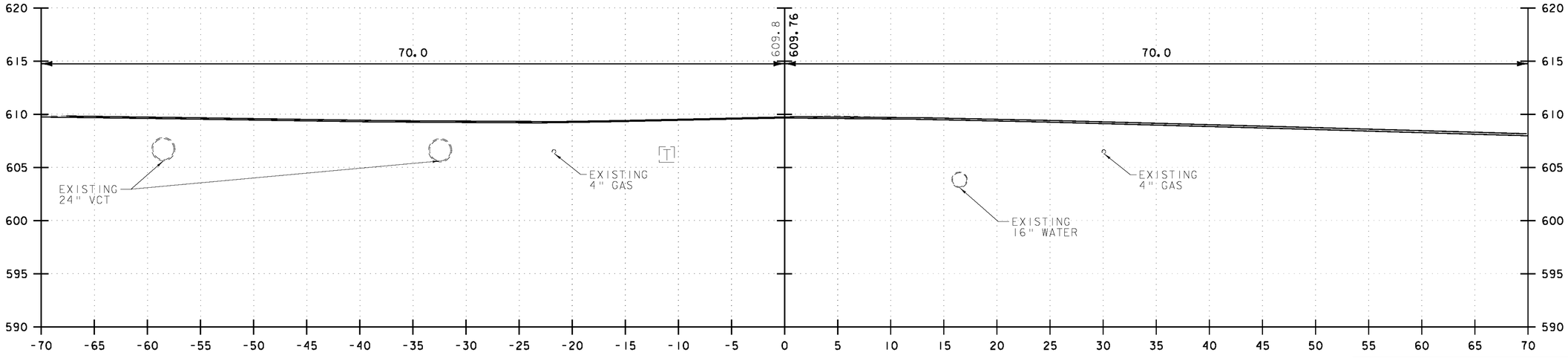
FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 321 OF 339

END APPROACH STA. 604+25



603+50



603+00

5 0 5 10
FEET

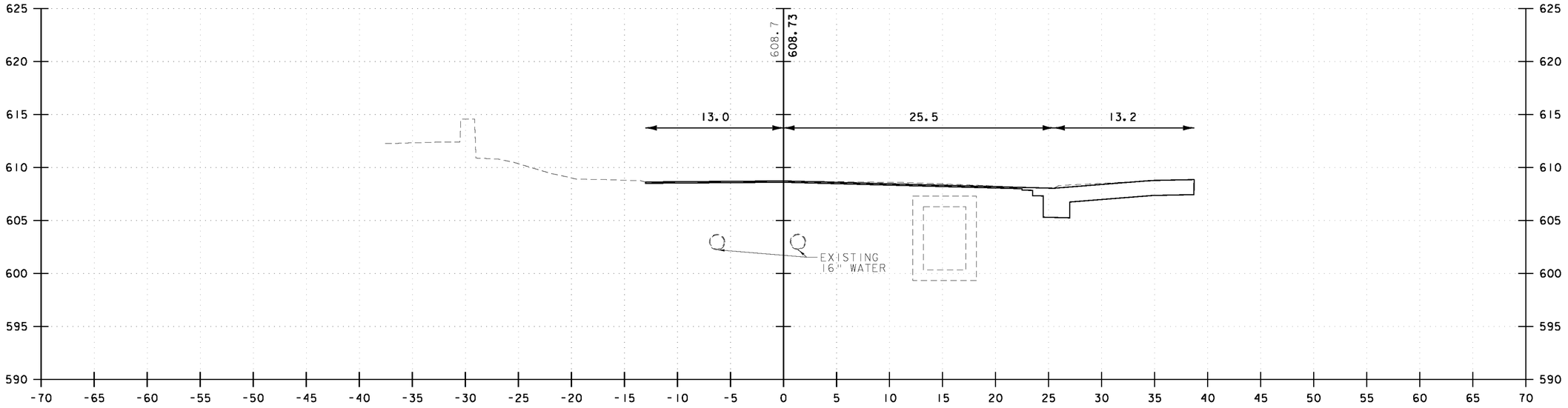
VHB Vanasse Hangen Brustlin, Inc.

NORTH MAIN STREET

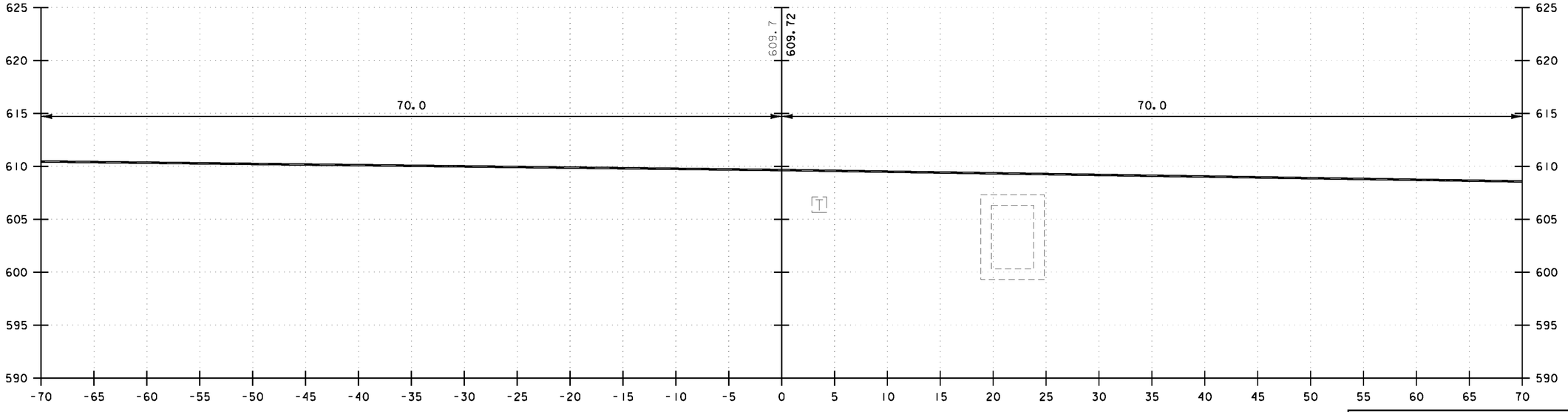
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 322 OF 339



500+50



500+00

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

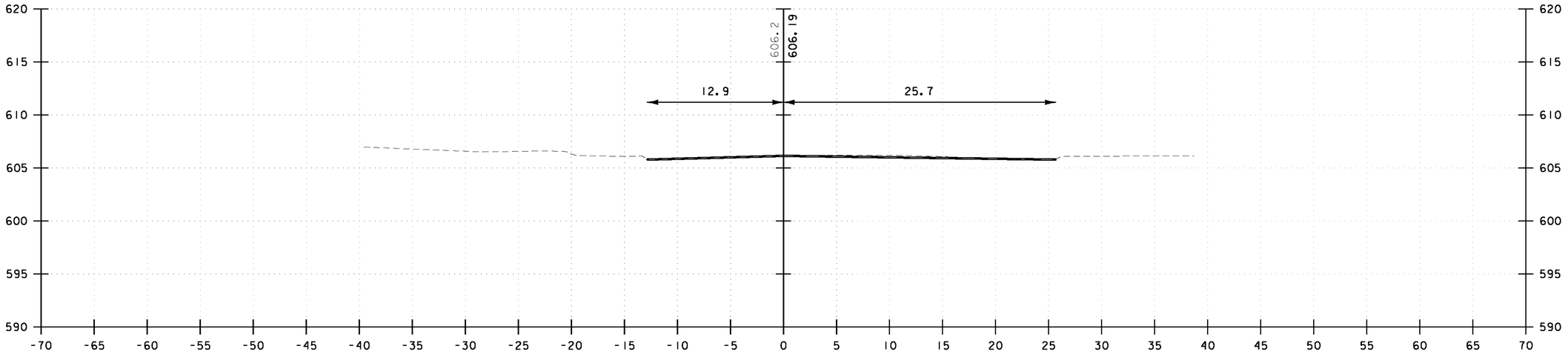
PROSPECT STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

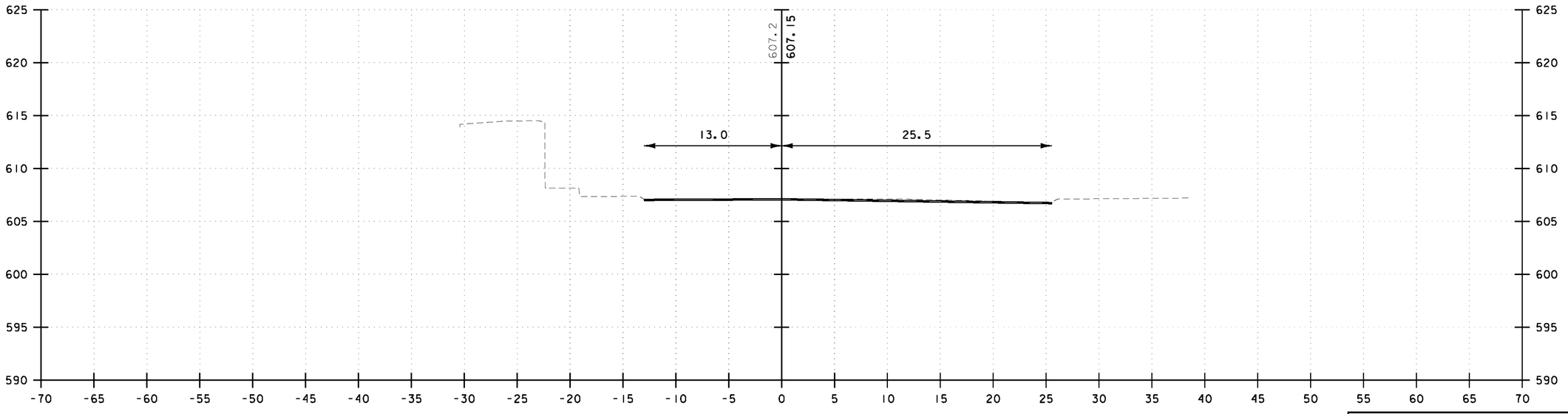
FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 323 OF 339

END APPROACH STA. 501+60



501+42



501+00

5 0 5 10
FEET

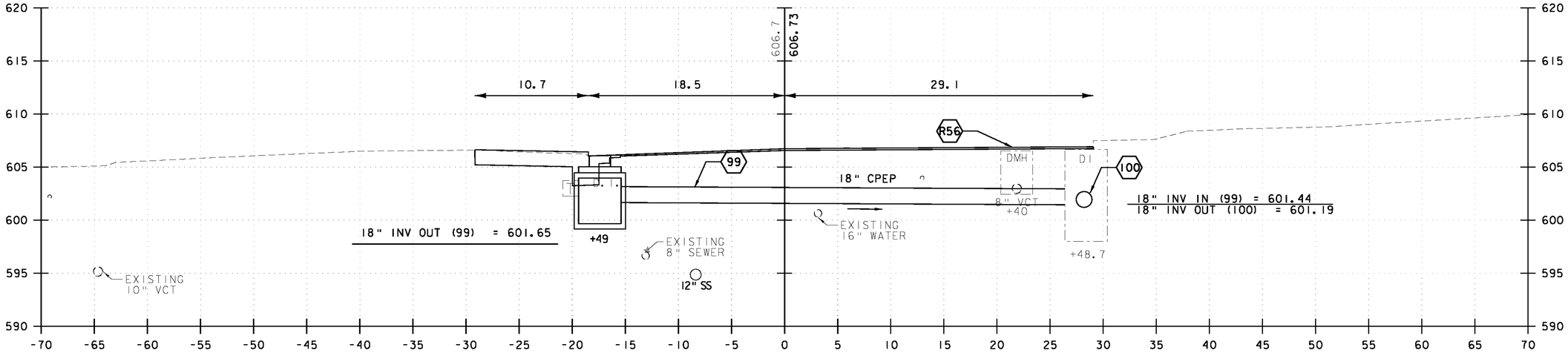
VHB Vanasse Hangen Brustlin, Inc.

PROSPECT STREET

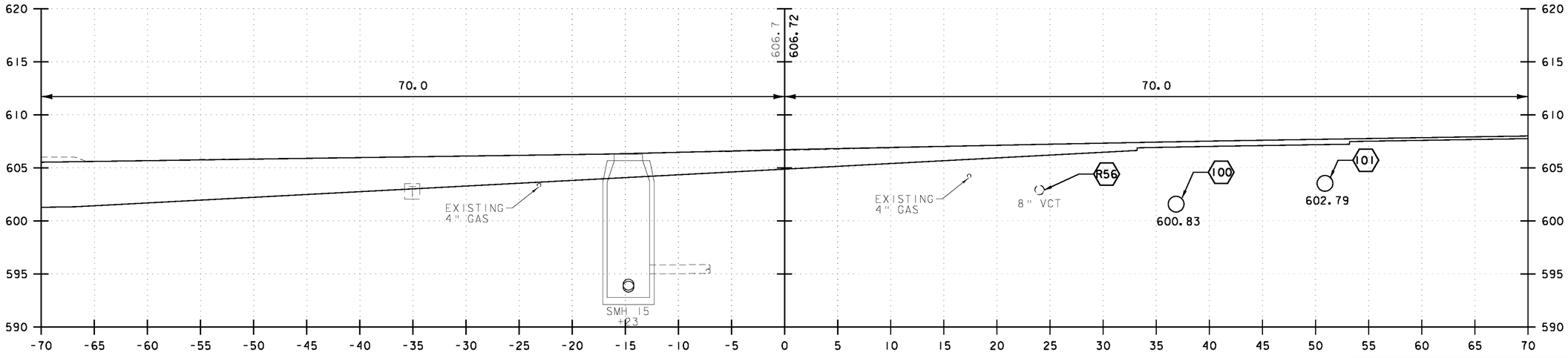
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 324 OF 339



700+50



700+00

5 0 5 10
FEET

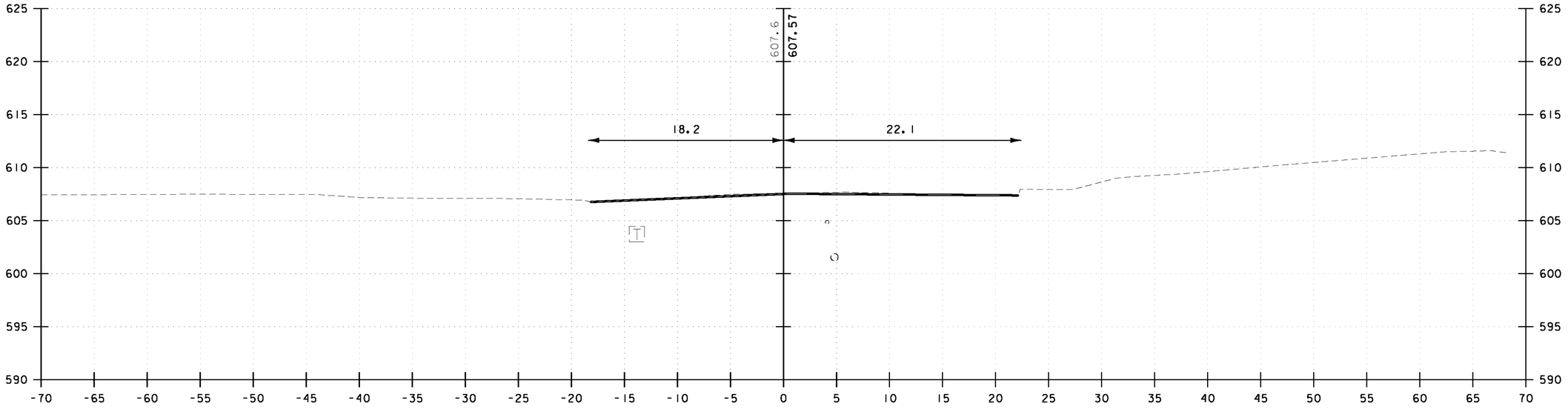
VHB Vanasse Hangen Brustlin, Inc.

ELM STREET

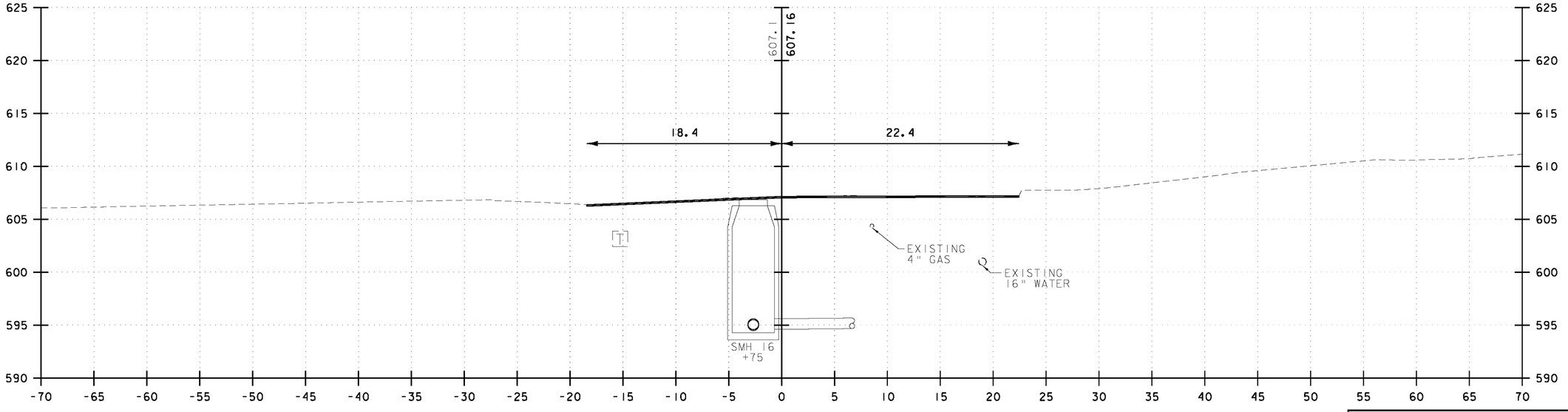
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 325 OF 339



701+50



701+00

5 0 5 10
FEET

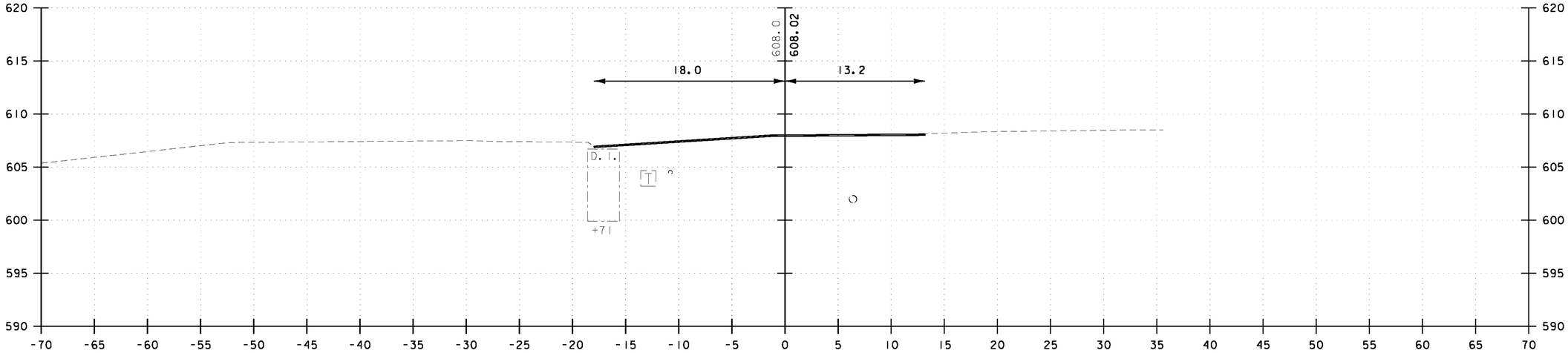
VHB Vanasse Hangen Brustlin, Inc.

ELM STREET

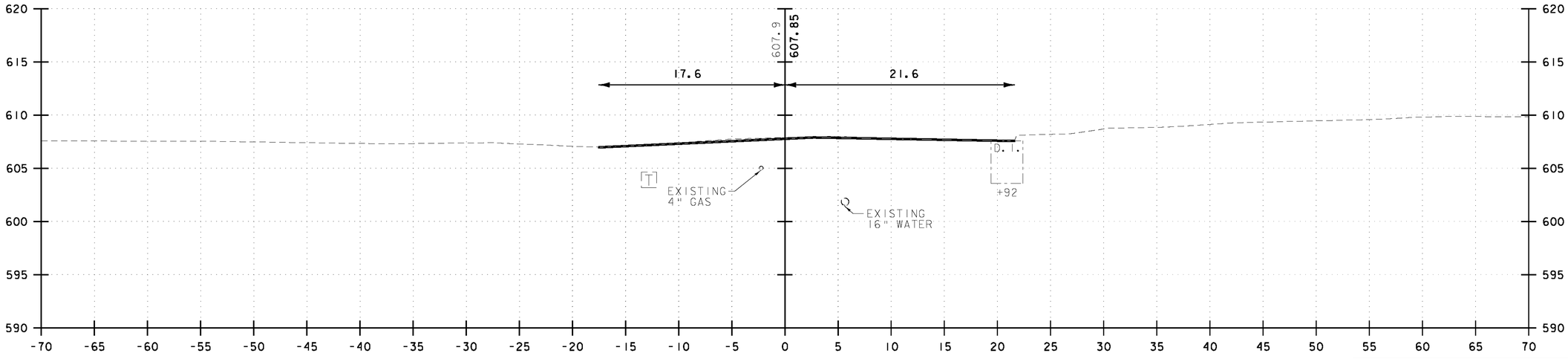
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 326 OF 339



702+50



702+00

5 0 5 10
FEET

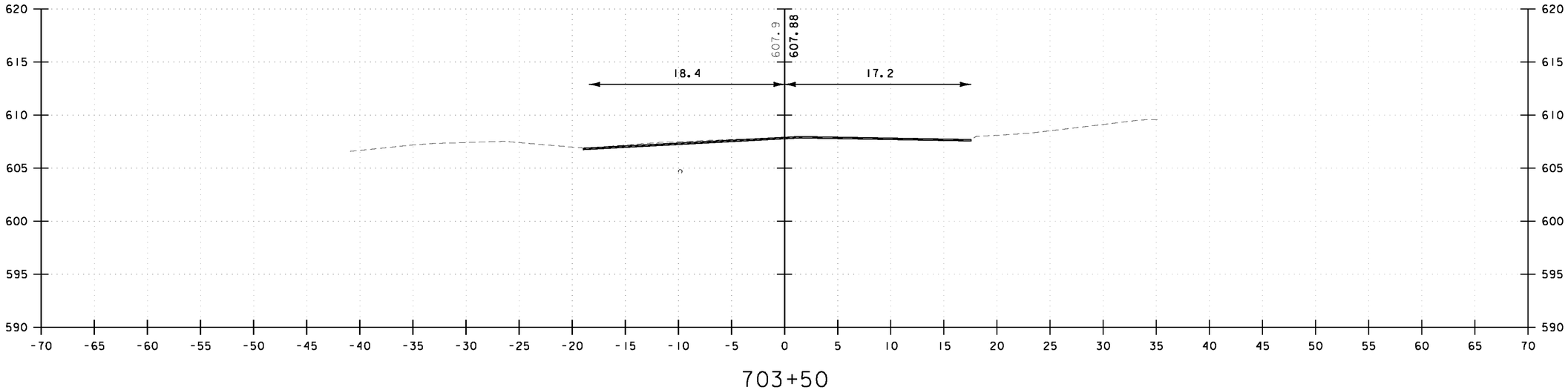
VHB Vanasse Hangen Brustlin, Inc.

ELM STREET

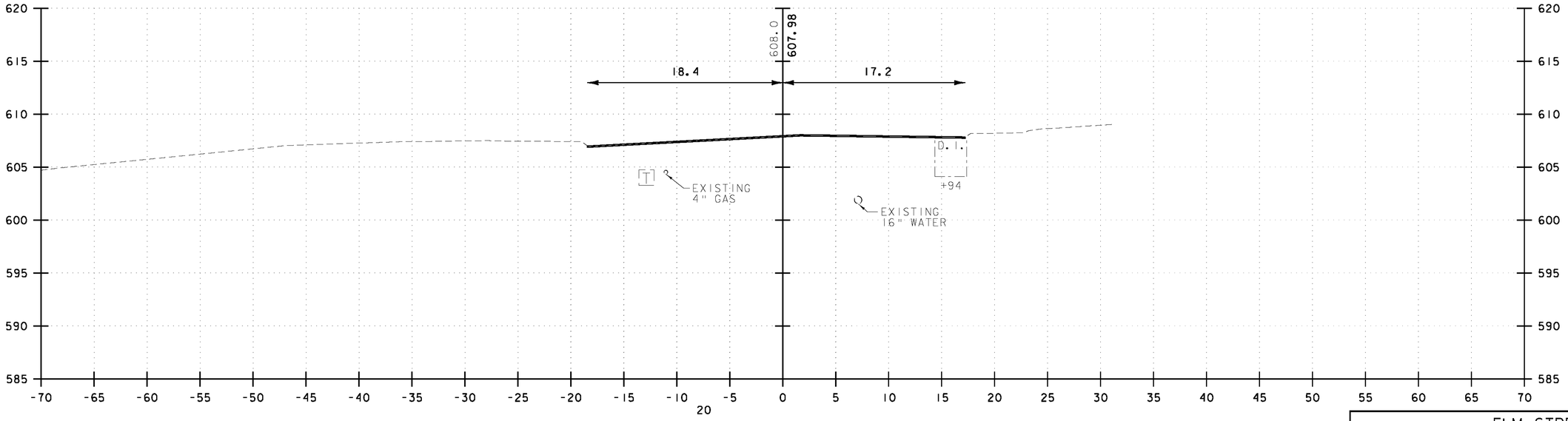
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 327 OF 339



703+50



703+00

5 0 5 10
FEET

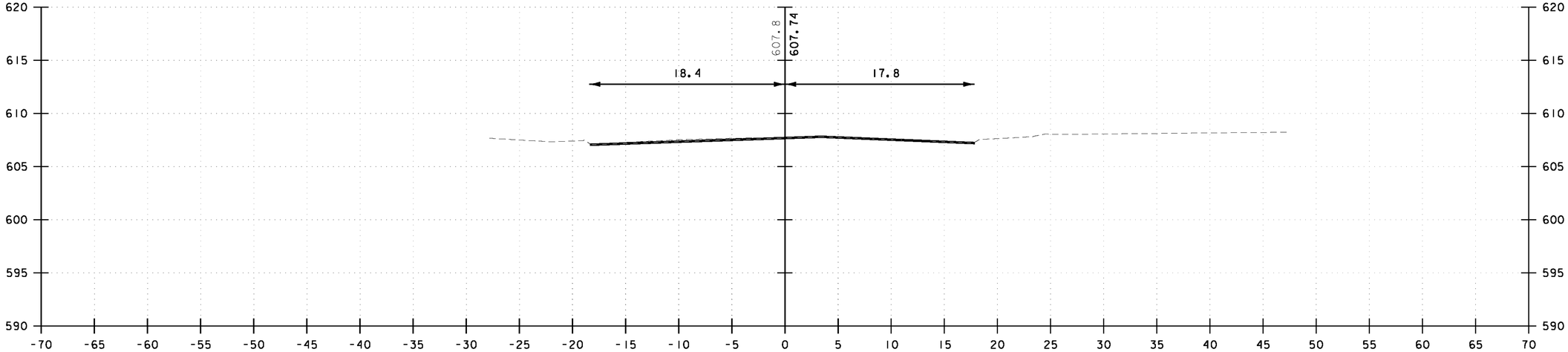
VHB Vanasse Hangen Brustlin, Inc.

ELM STREET

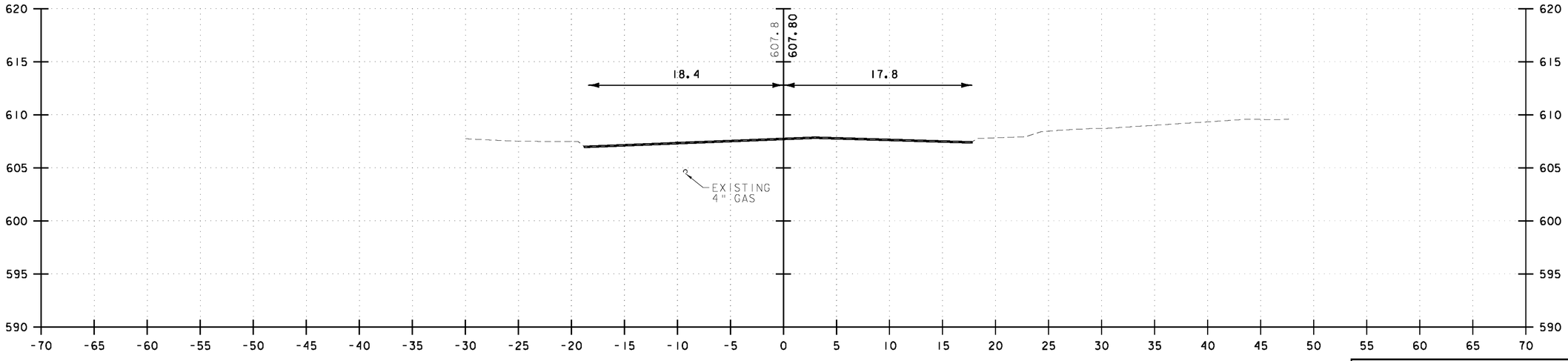
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 328 OF 339



704+50



704+00

5 0 5 10
FEET

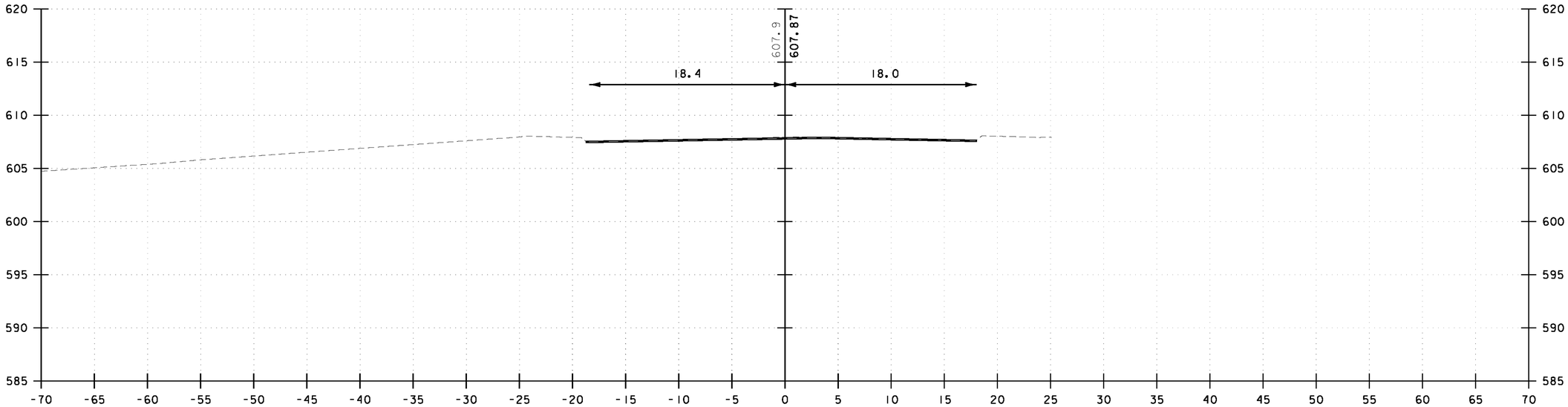
VHB Vanasse Hangen Brustlin, Inc.

ELM STREET

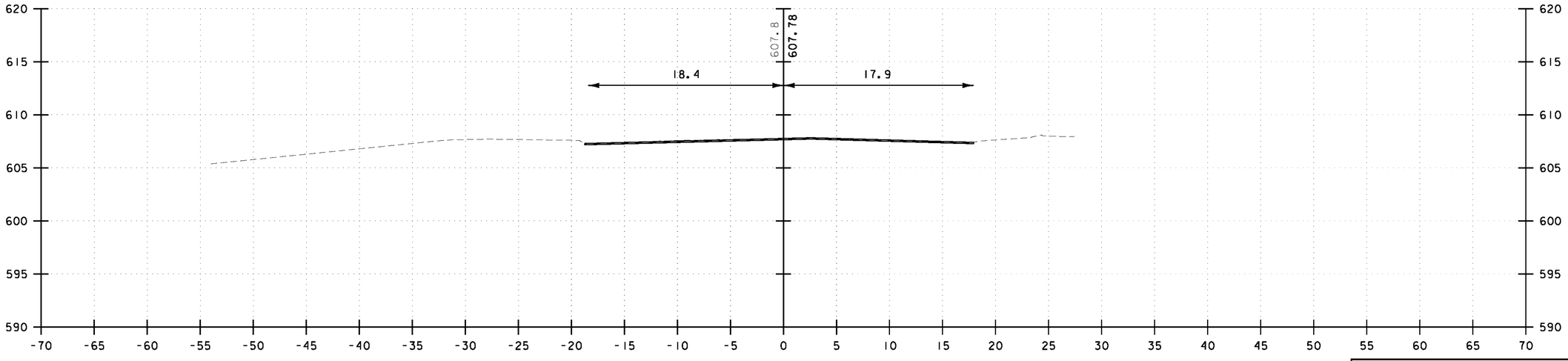
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 329 OF 339



705+50



705+00

5 0 5 10
FEET

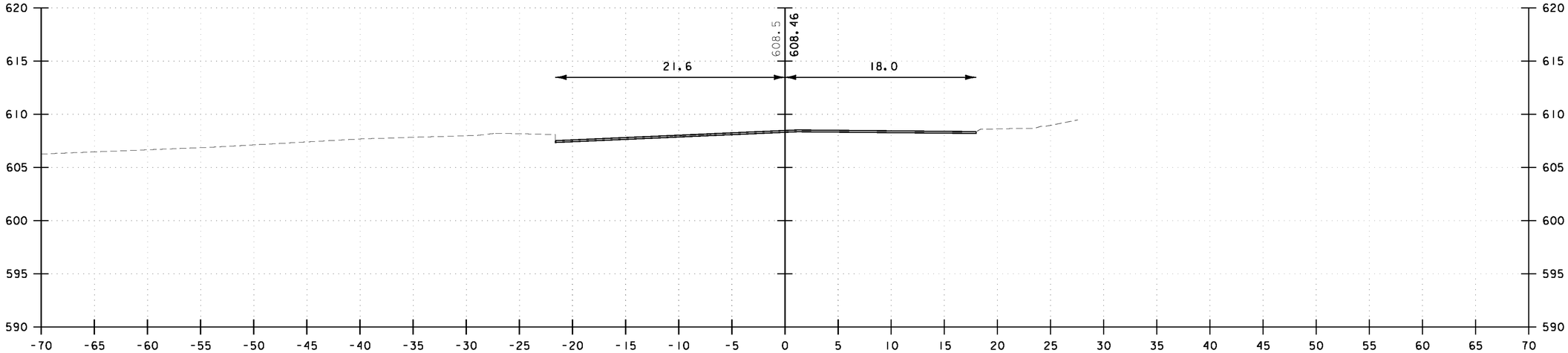
VHB Vanasse Hangen Brustlin, Inc.

ELM STREET

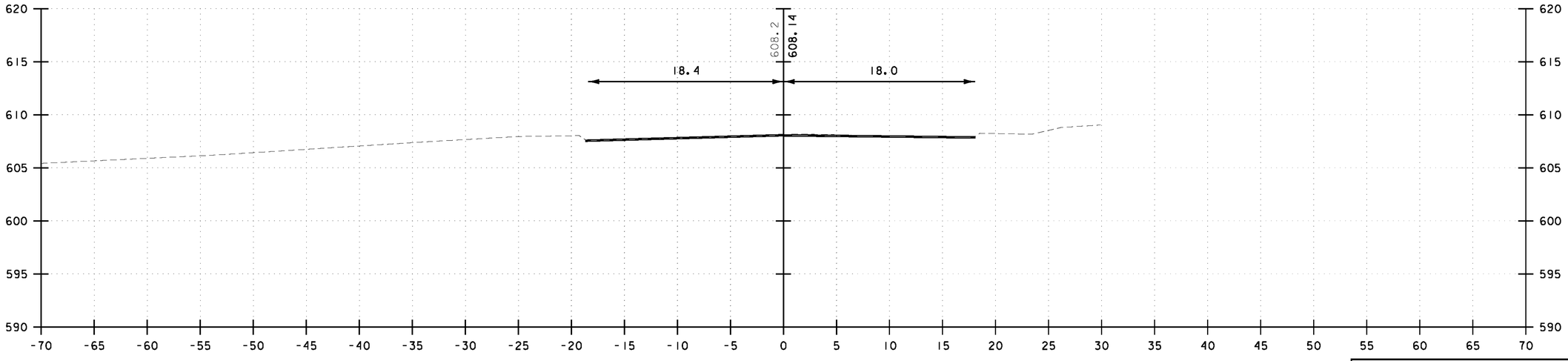
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 330 OF 339



706+50



706+00

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

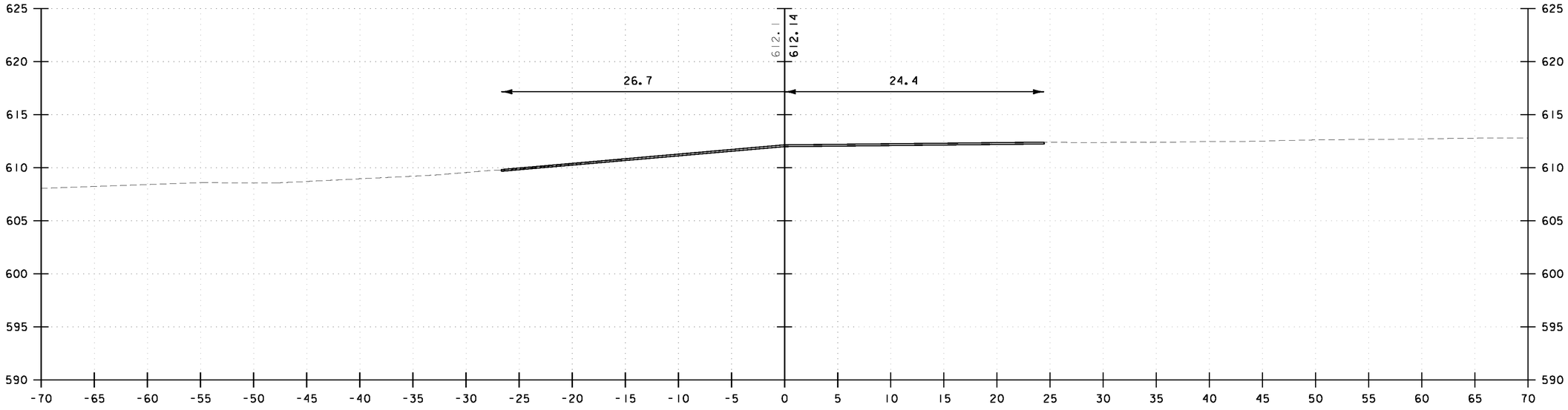
ELM STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

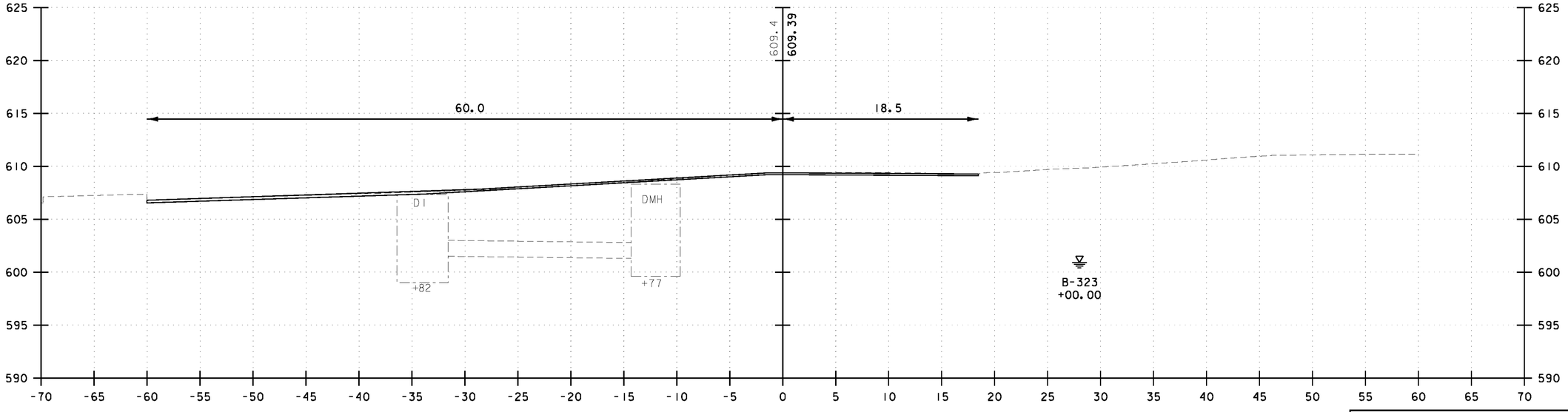
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PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 331 OF 339

END APPROACH STA. 707+80



707+50



707+00

5 0 5 10
FEET

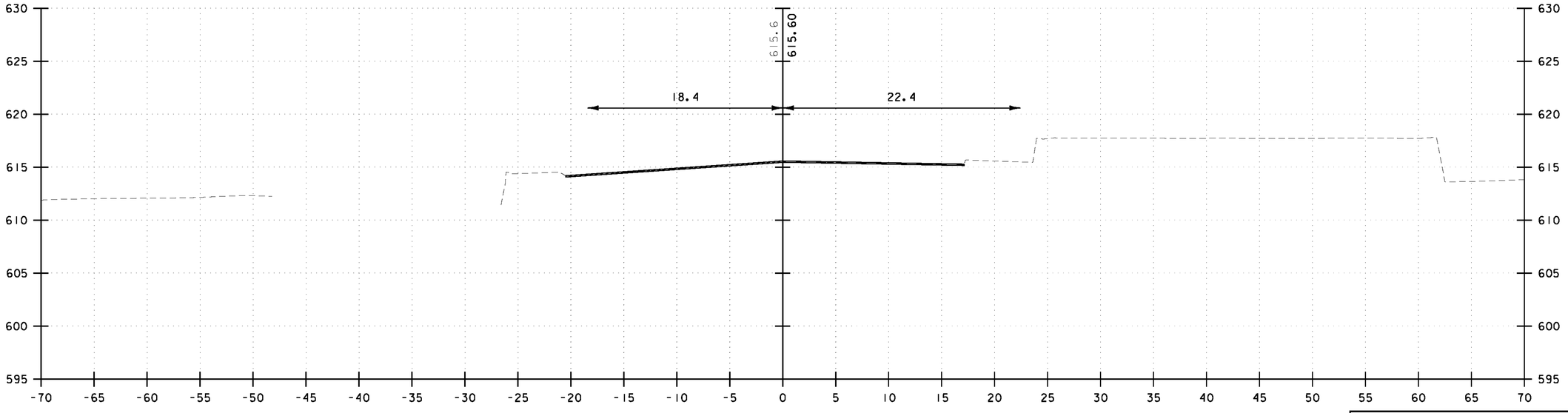
VHB Vanasse Hangen Brustlin, Inc.

ELM STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 332 OF 339



707+80

5 0 5 10
FEET

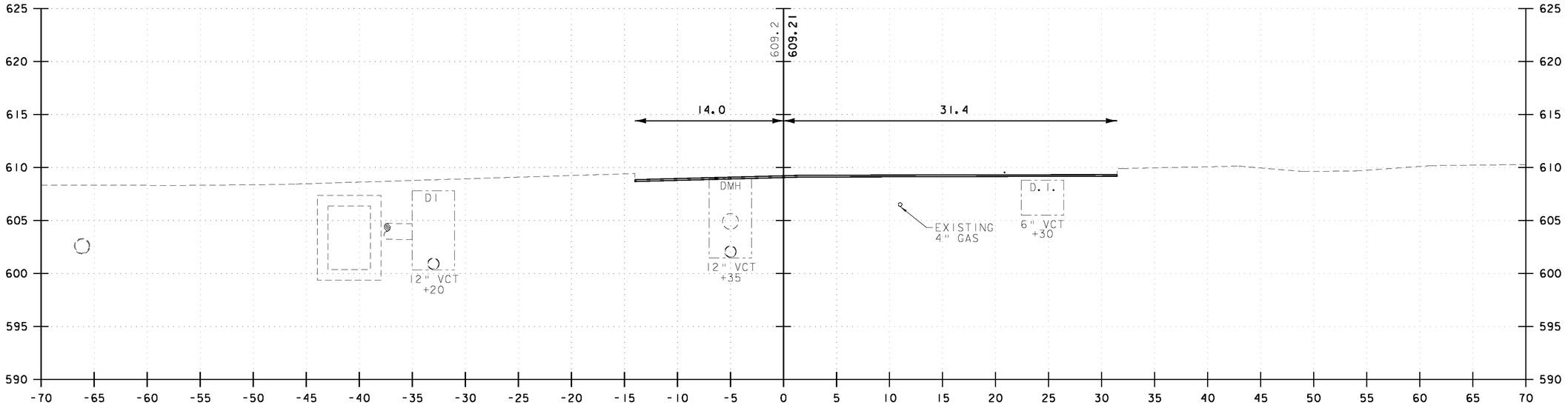
VHB Vanasse Hangen Brustlin, Inc.

ELM STREET

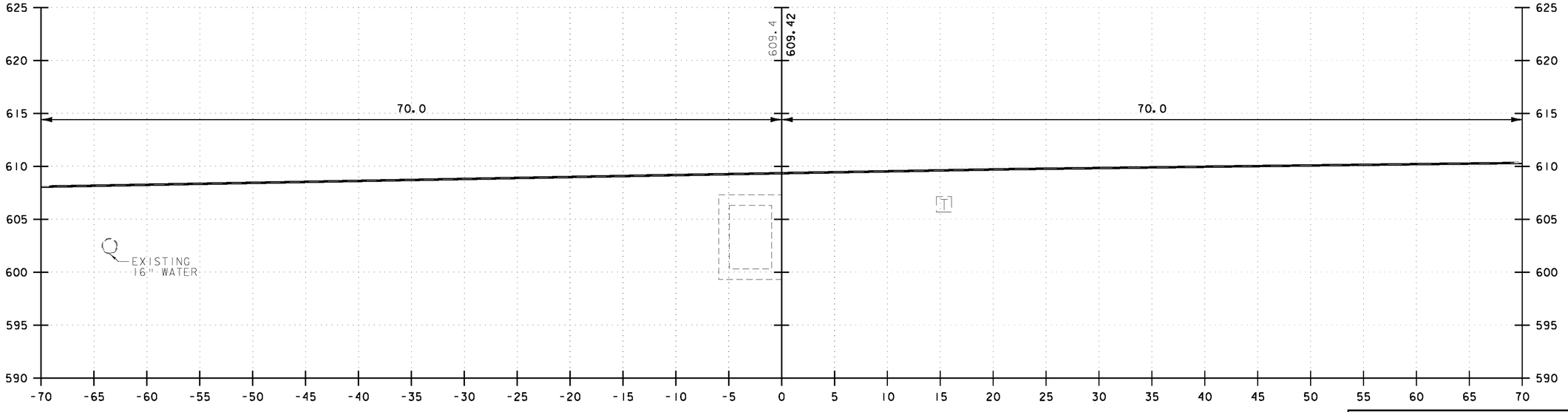
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 333 OF 339



800+25



800+00

5 0 5 10
FEET

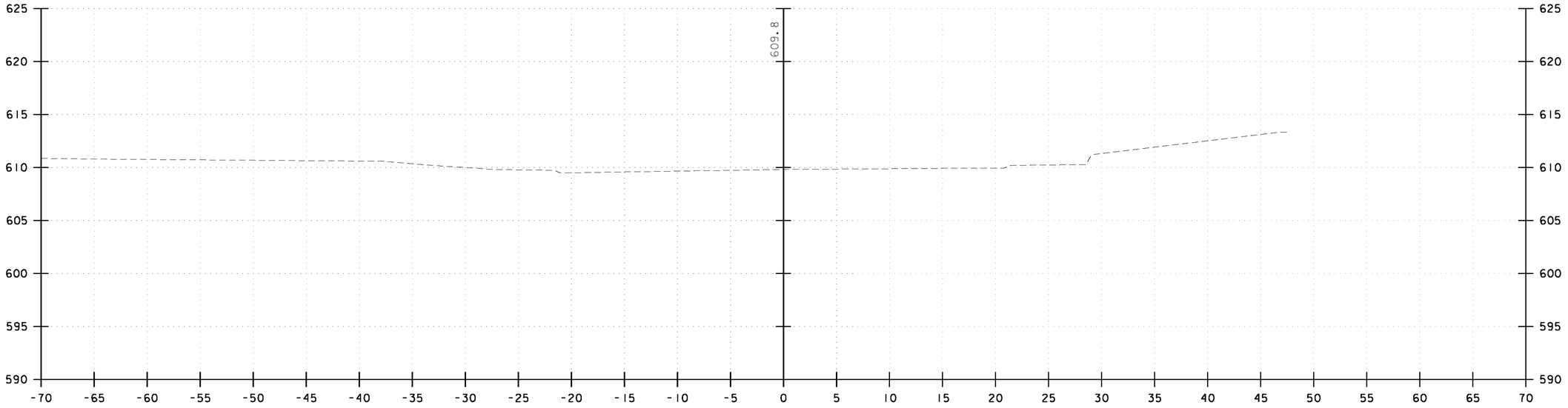
VHB Vanasse Hangen Brustlin, Inc.

CHURCH STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

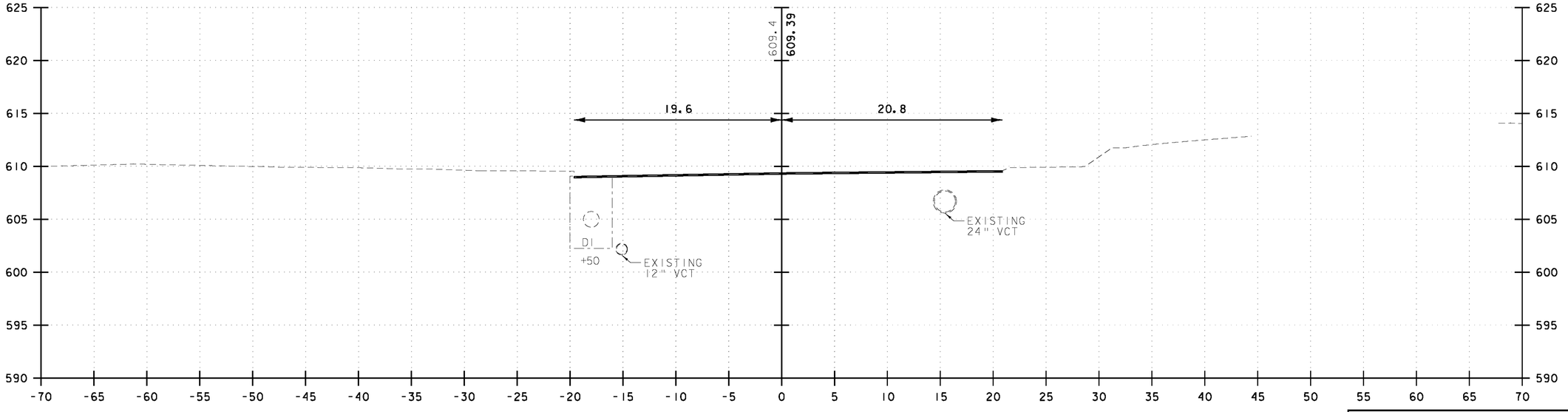
FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 334 OF 339



800+75

END APPROACH STA. 800+65



800+50

5 0 5 10
FEET

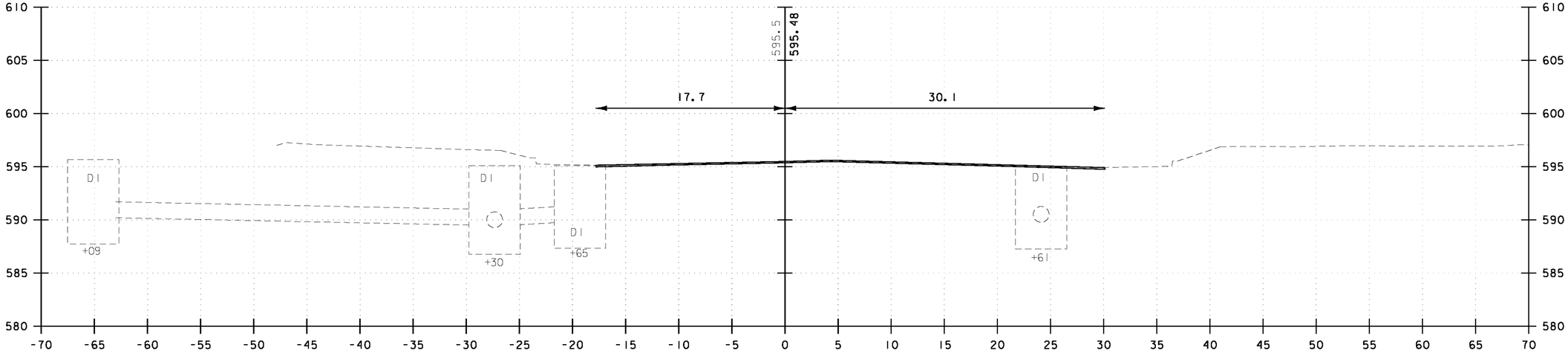
VHB Vanasse Hangen Brustlin, Inc.

CHURCH STREET

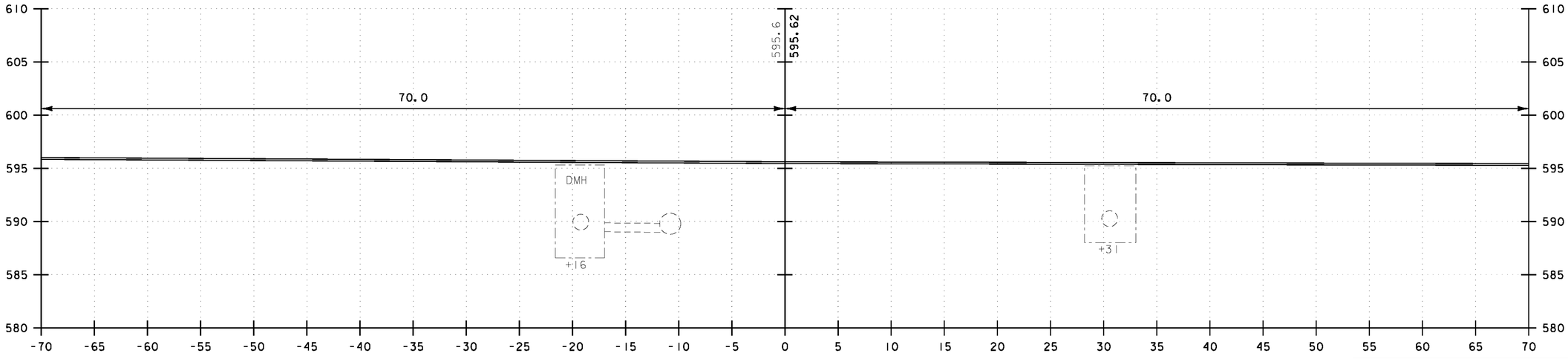
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b0110_xs2_Cut_C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 335 OF 339



400+50

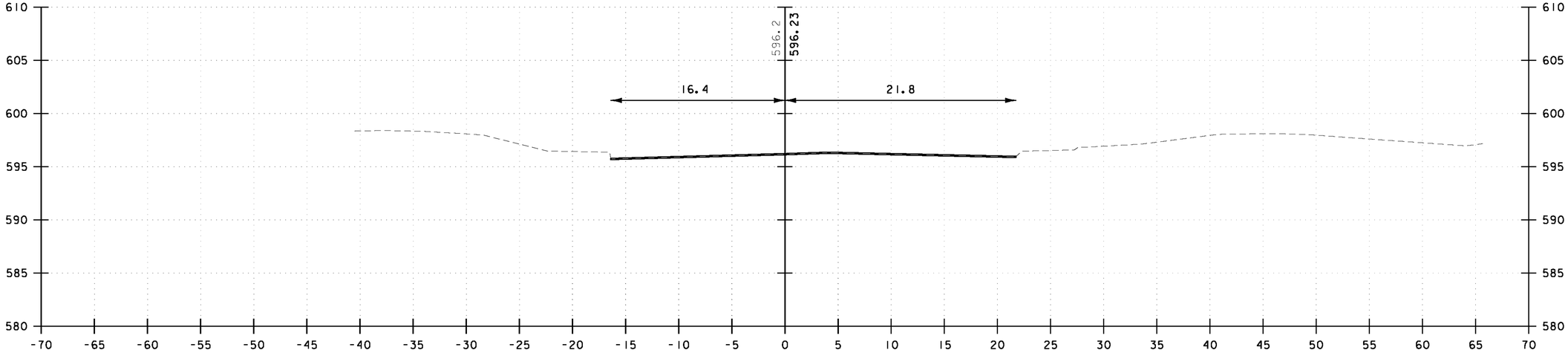


400+00

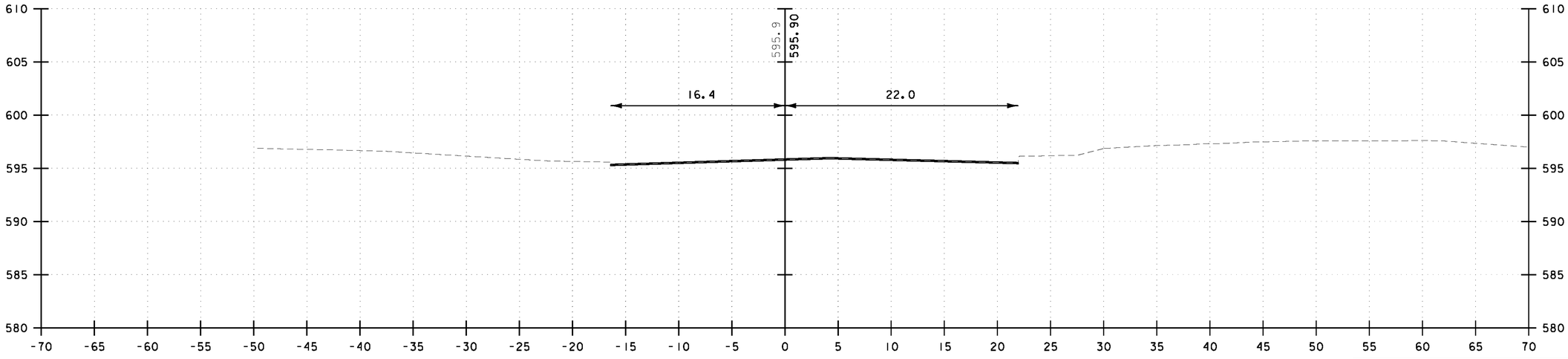
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FEET

VHB Vanasse Hangen Brustlin, Inc.

SUMMER STREET	
PROJECT NAME:	BARRE CITY
PROJECT NUMBER:	FEGC F 026-1(34) C/2
FILE NAME: 85b010 xs2 Cut C2	PLOT DATE: 3/9/2011
PROJECT LEADER: G. BAKOS	DRAWN BY: DMP / JAR
DESIGNED BY: DMP / MDS	CHECKED BY:
CROSS SECTIONS	SHEET 336 OF 339



401+00



400+78

5 0 5 10
FEET

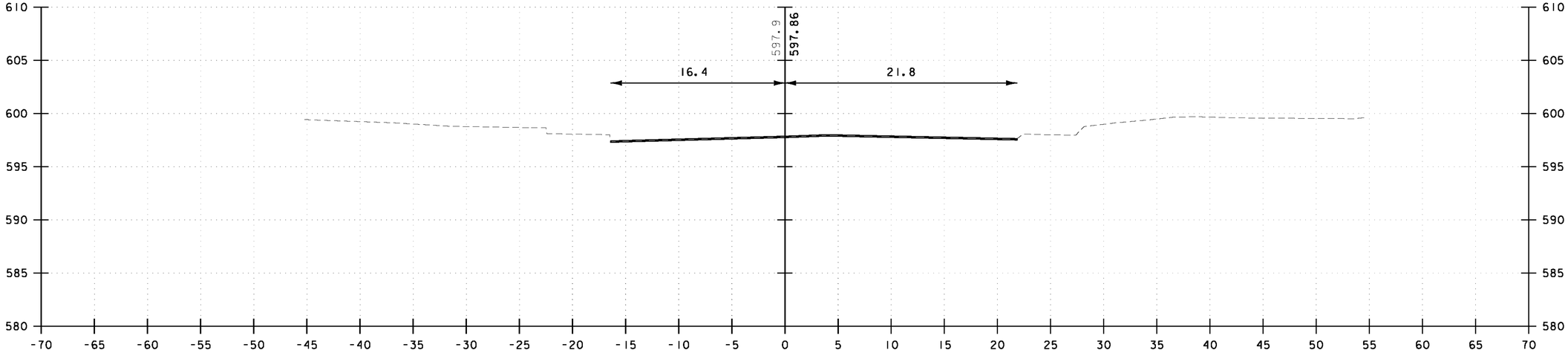
VHB Vanasse Hangen Brustlin, Inc.

SUMMER STREET

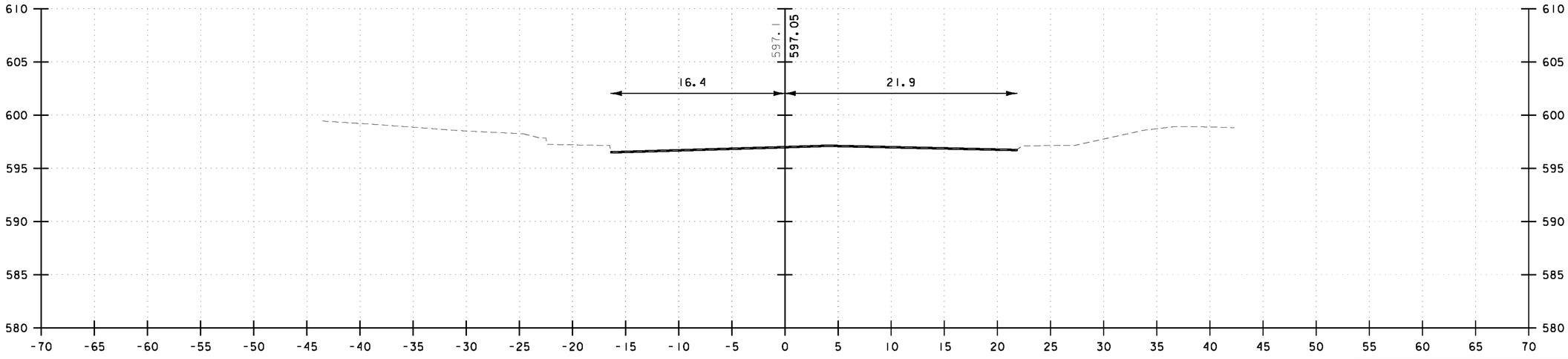
PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010 xs2 Cut C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 337 OF 339



402+00



401+50

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

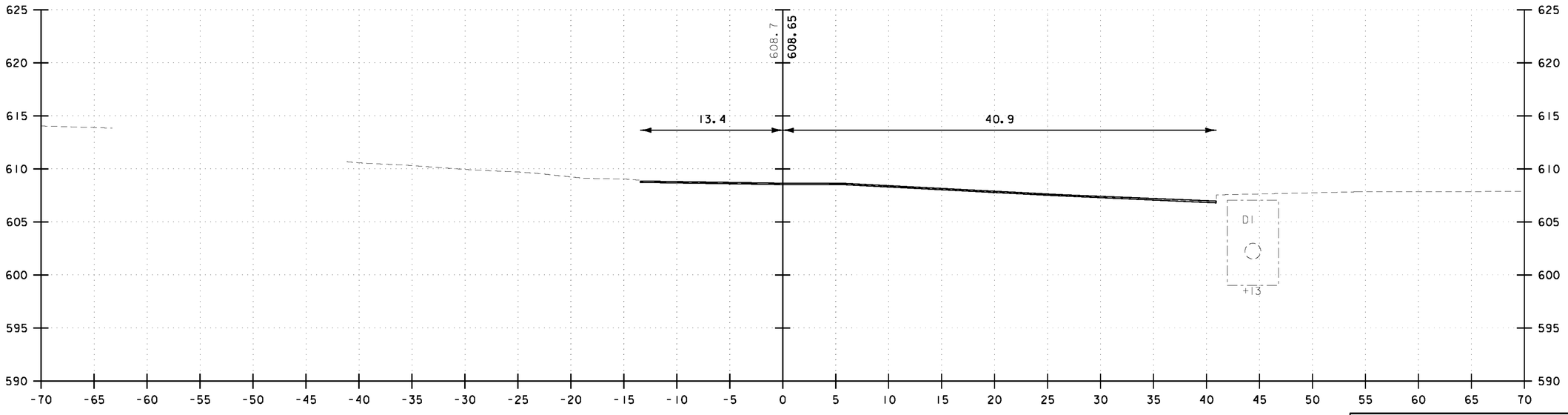
SUMMER STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010 xs2 Cut C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 338 OF 339

END APPROACH STA. 423+90



422+11

5 0 5 10
FEET

VHB Vanasse Hangen Brustlin, Inc.

SUMMER STREET

PROJECT NAME: BARRE CITY
PROJECT NUMBER: FEGC F 026-1(34) C/2

FILE NAME: 85b010 xs2 Cut C2
PROJECT LEADER: G. BAKOS
DESIGNED BY: DMP / MDS
CROSS SECTIONS

PLOT DATE: 3/9/2011
DRAWN BY: DMP / JAR
CHECKED BY:
SHEET 339 OF 339