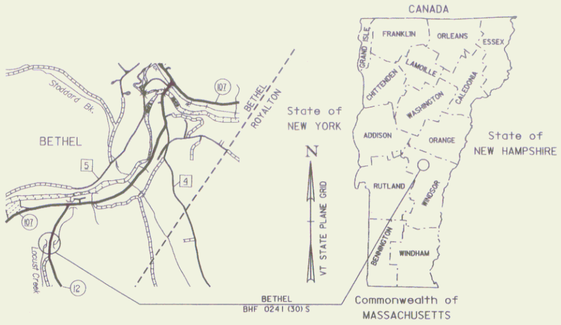
PROJECT LOCATION:
ON VT. ROUTE 12, APPROXIMATELY 0.40 MILES SOUTH OF THE JUNCTION OF VT. ROUTE 12 AND VT. ROUTE 107

PROJECT DATA:
LENGTH OF BRIDGE: 120.18 FT.
LENGTH OF ROADWAY: 569.82 FT.
LENGTH OF PROJECT: 690.00 FT.
LENGTH OF ROW PROJECT: 815.56 FT.

PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF REPLACING THE EXISTING STRUCTURE WITH A NEW SIMPLE SPAN BRIDGE, ROADWAY APPROACHES AND CHANNEL WORK.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

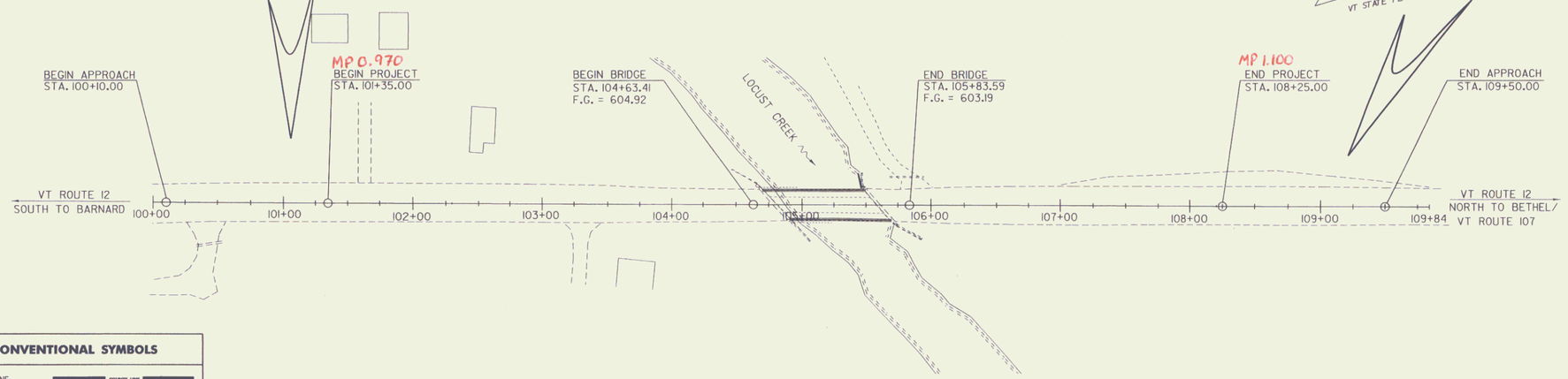


PROPOSED IMPROVEMENT
BRIDGE PROJECT
TOWN OF BETHEL
COUNTY OF WINDSOR
ROUTE NO. : VT 12, MAJOR COLLECTOR, BRIDGE 30

R.O.W. PLANS

BEGIN ROW PROJECT
BHF 0241(30)S
STA. 101+05.39
49.72' LT.

END ROW PROJECT
BHF 0241(30)S
STA. 109+20.95
39.40' LT.



CONVENTIONAL SYMBOLS

COUNTY LINE	COUNTY LINE
TOWN LINE	TOWN LINE
LIMITS OF ACCESS	
POINT OF ACCESS	X
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	SR SR SR
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY : R.D. GILMAN
SURVEYED DATE : NOV 1995

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83/92

ALL DRIVES AS INDICATED ON PLANS ARE SUBJECT TO PERMITS PURSUANT TO TITLE 19 V.S.A. 1111

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

SCALE 1" = 40'-0"
40 0 40

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.

Pin # 95C002

APPROVED Richard Hibbard DATE 12-3-09
Director of Program Development

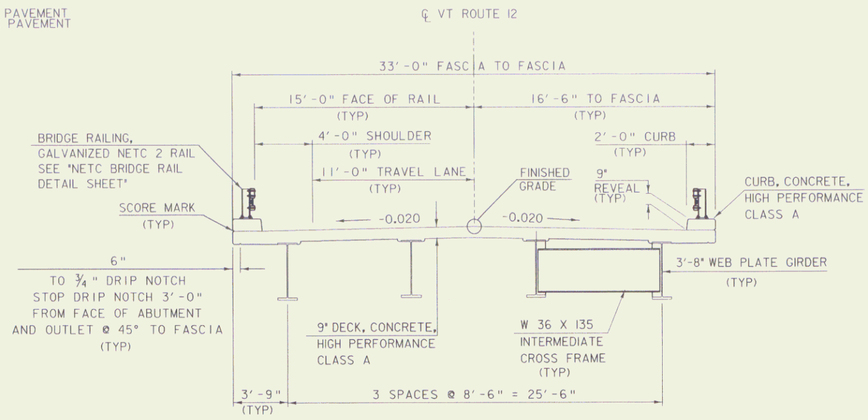
APPROVED Robert Ide DATE 12/3/09
Chief of Right of Way

BETHEL
BHF 0241(30)S
ROW SHEET 1 OF 18 SHEETS

1

MATERIAL ITEM	THICKNESS TOLERANCE
BITUMINOUS CONCRETE PAVEMENT* (TOTAL DEPTH)	+/- 1/4"
AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE OF DENSE GRADED CRUSHED STONE	+/- 1/2"
SAND BORROW	+/- 1"

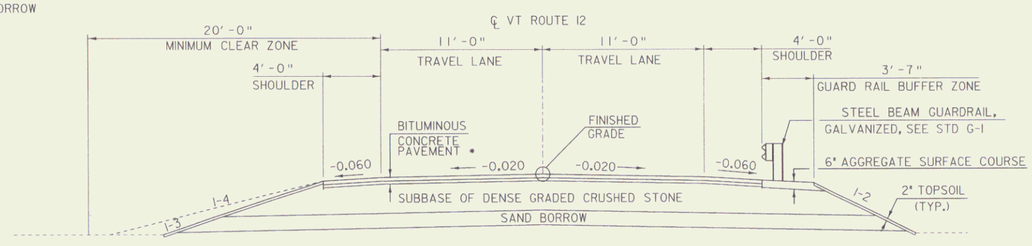
* ALL REFERENCE TO PAVEMENT
BITUMINOUS CONCRETE PAVEMENT



BRIDGE TYPICAL SECTION

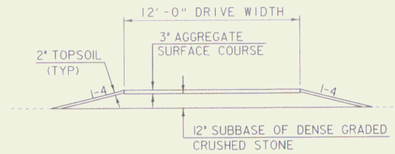
SCALE 1/4" = 1'-0"
1 0 2 4 6

VT ROUTE 12
1 1/2" BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) *
1 1/2" BITUMINOUS CONCRETE PAVEMENT (TYPE IVS) *
2 1/2" BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) *
2'-0" SUBBASE OF DENSE GRADED CRUSHED STONE
1-0" SAND BORROW



ROADWAY TYPICAL SECTION

SCALE 1/4" = 1'-0"
1 0 2 4 6



DRIVE 103+28.50 (RT) TYPICAL SECTION

SCALE 1/4" = 1'-0"
1 0 2 4 6

TYPICAL SECTIONS

PROJECT NAME: BETHEL

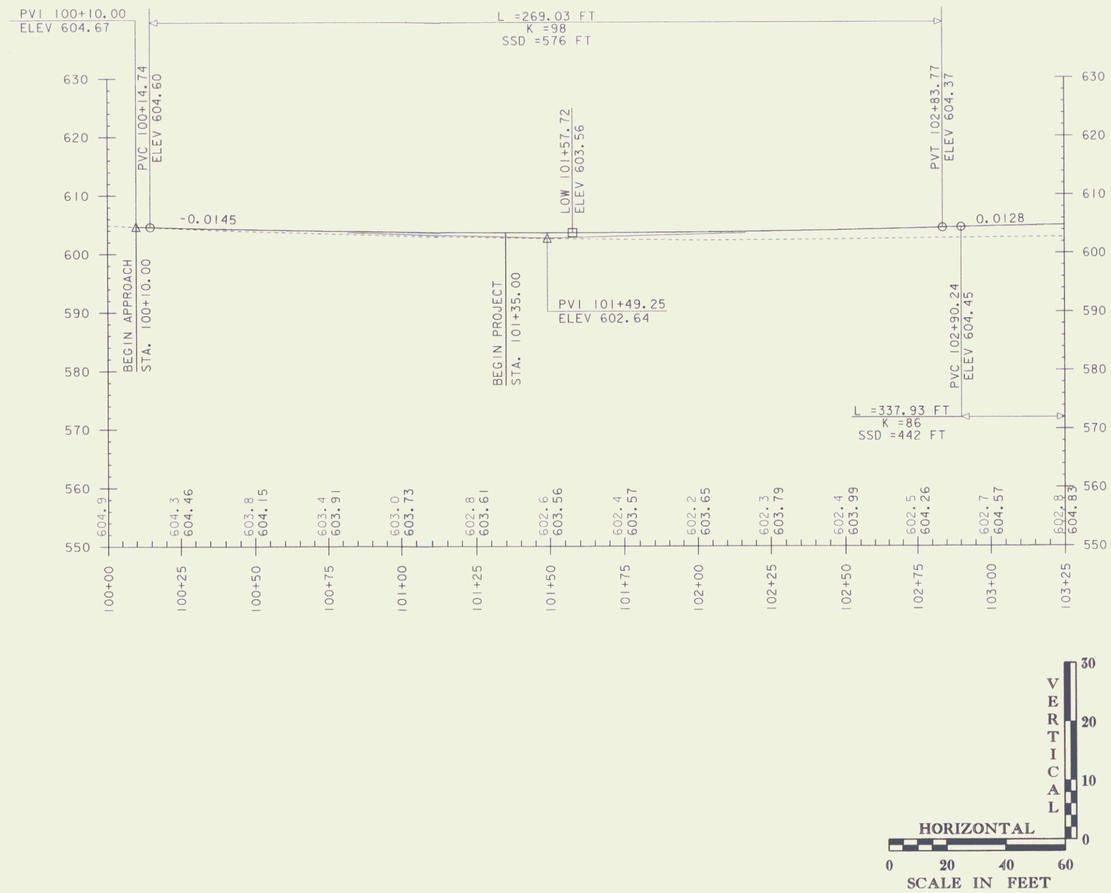
PROJECT NUMBER: BHF 024I(30)S

FILE NAME: 95c002\STR\sc002typ.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: U. STANLEY

PLOT DATE: 03-DEC-2009
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY

ROW SHEET (2) OF 18

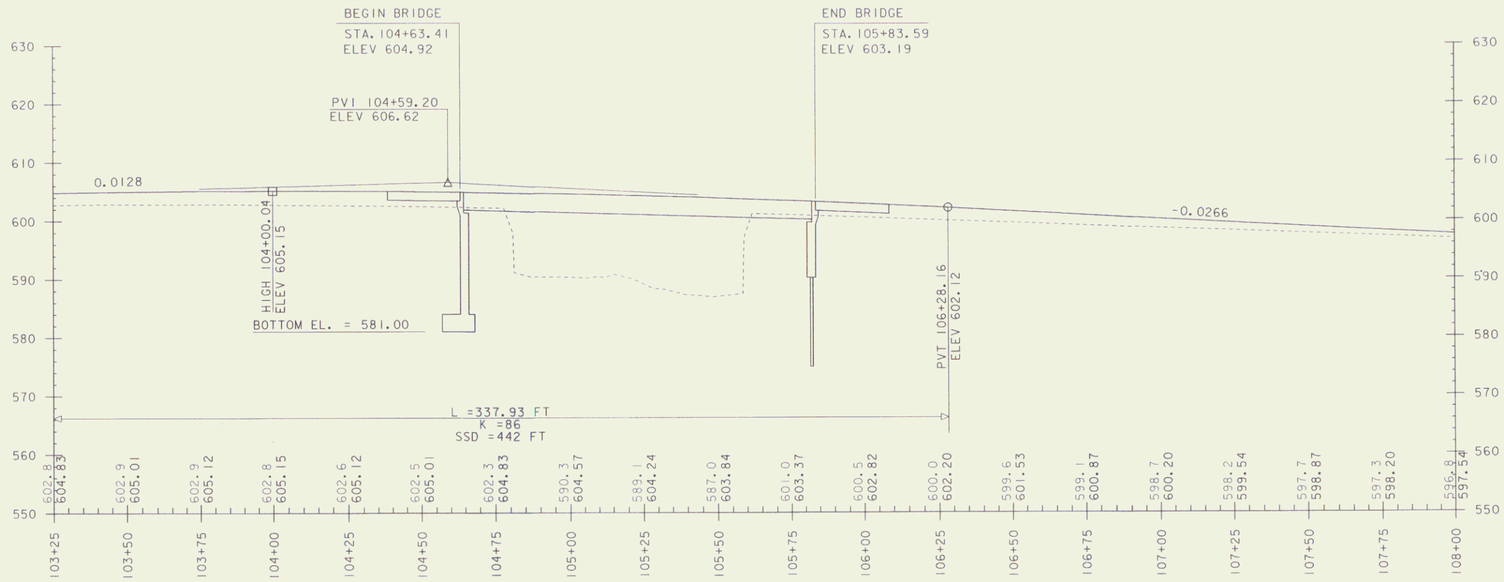
VT 12 PROFILE

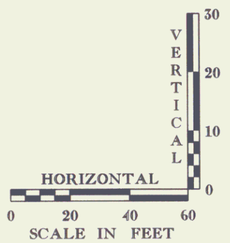


MAINLINE PROFILE SHEET 1

PROJECT NAME: BETHEL	
PROJECT NUMBER: BHF 024(30)S	
FILE NAME: s95c002\STR\sc002xs.dgn	PLOT DATE: 03-DEC-2009
PROJECT LEADER: M. EVANS-MONGEON	DRAWN BY: G.ROKES
DESIGNED BY: U.STANLEY	CHECKED BY: U.STANLEY
	ROW SHEET 3 OF 18

VT 12 PROFILE

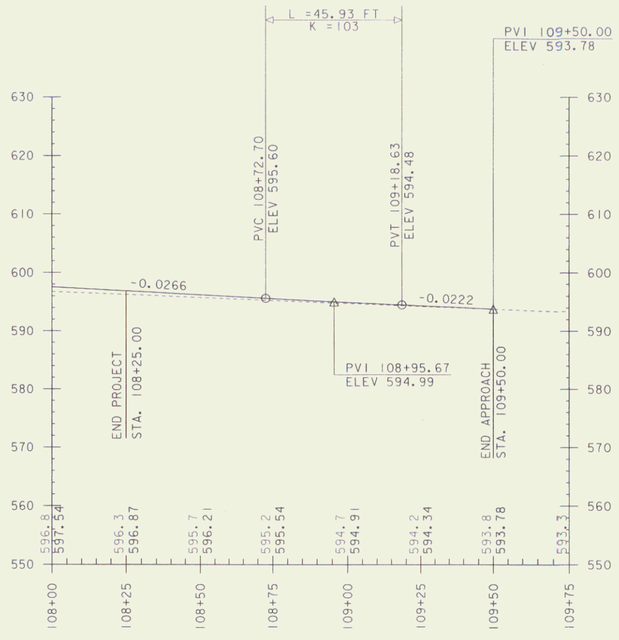


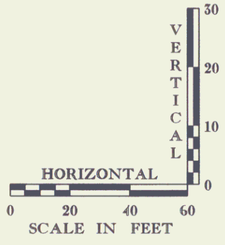


MAINLINE PROFILE SHEET 2

PROJECT NAME: BETHEL	
PROJECT NUMBER: BHF 0241(30)S	
FILE NAME: s95c002\STR\sc002xs.dgn	PLOT DATE: 03-DEC-2009
PROJECT LEADER: M.EVANS-MONGEON	DRAWN BY: G.ROKES
DESIGNED BY: U.STANLEY	CHECKED BY: M.EVANS-MONGE
	ROW SHEET 4 OF 18

VT 12 PROFILE





MAINLINE PROFILE SHEET 3

PROJECT NAME: BETHEL

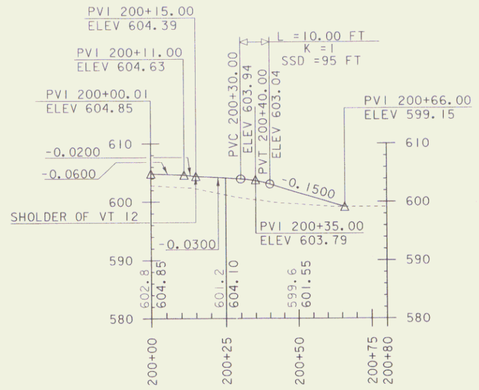
PROJECT NUMBER: BHF 024I(30)S

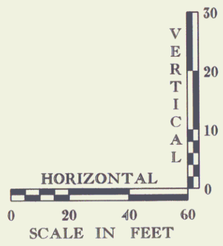
FILE NAME: s95c002\STR\sc002xs.dgn
PROJECT LEADER: M.EVANS-MONGEON
DESIGNED BY: U.STANLEY

PLOT DATE: 03-DEC-2009
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY
ROW SHEET 5 OF 18

5

DRIVE AT STA. 103+28.50 PROFILE





PRIVATE DRIVE PROFILE SHEET

PROJECT NAME: BETHEL

PROJECT NUMBER: BHF 024I(30)S

FILE NAME: s95c002\STR\sc002xs.dgn
PROJECT LEADER: M.EVANS-MONGEON
DESIGNED BY: U.STANLEY

PLOT DATE: 03-DEC-2009
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY

ROW SHEET 6 OF 18

GPS CONTROL POINTS

HVCTRL # 1

Standard Disk Stamped

Cleveland Az

NORTH = 478386.150
EAST = 1603594.342
ELEV. = 553.601

TO REACH FROM THE JUNCTION OF VT 107 AND VT 12 SOUTH OF BETHEL, PROCEED EASTERLY ALONG VT 107 AND VT 12 FOR APPROX 0.3 M (1.0 FT) TO THE MARK ON THE LEFT. THE MARK IS DIRECTLY OPPOSITE CLEVELAND BROOK ROAD, 25.5 FT (7.8 M) NORTH FROM THE CENTERLINE OF VT 107 AND VT 12. OWNERSHIP STATE OF VERMONT STATION MARK IS A STATE OF VERMONT SURVEY MARK SET IN THE TOP OF A 12 INCH DIAMETER CONCRETE POST SET FLUSH WITH GROUND. IT IS 25.5 FT (7.8 M) NORTH OF CENTERLINE VT 107 AND VT 12, 4.5 FT (1.4 M) NORTH OF 3 CABLE GUARD RAIL, 45 FT (13.7 M) SOUTHEAST FROM COMBINATION POLE 4/49/57, 15 FT (4.6 M) SOUTH OF THE NORTH END OF A 4 FT (1.2 M) X 5 FT (1.5 M) CONCRETE BOX, 72 FT (21.9 M) NORTH OF THE SOUTH END OF A 4 FT (1.2 M) X 5 FT (1.5 M) CONCRETE BOX.

HVCTRL # 2

Standard Disk Stamped

Cleveland

NORTH = 477609.622
EAST = 1601931.471
ELEV. = 580.160

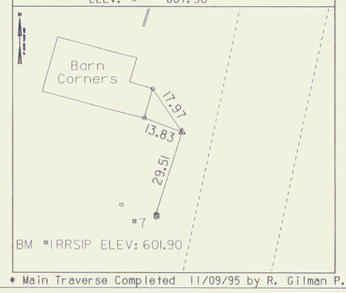
TO REACH FROM THE JUNCTION OF VT ROUTE 107 AND VT ROUTE 12, SOUTH OF BETHEL, PROCEED EASTERLY ALONG VT 107 AND VT 12 FOR APPROX 0.6 M (2.0 FT) TO THE MARK ON THE LEFT. STATION MARK IS A STATE OF VERMONT SURVEY MARK SET IN THE TOP OF A 12 INCH DIAMETER CONCRETE POST SET FLUSH WITH GROUND. IT IS 26 FT (7.9 M) NORTHWEST OF THE CENTERLINE OF THE ROAD, 88.5 FT (27.0 M) SOUTHWEST OF COMBINATION POLE 49/4/41, 143 FT (43.6 M) WEST OF 18 INCH CGMP WITH 7 FT (2.1 M) MARBLE HEADWALL.

* Description provided by Vermont Agency of Transportation Geodetic Survey Unit

TRAVERSE TIES

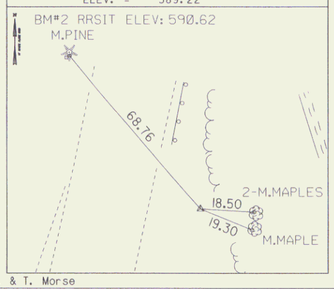
HVCTRL #5

NORTH = 475504.18
EAST = 1600022.00
ELEV. = 601.50



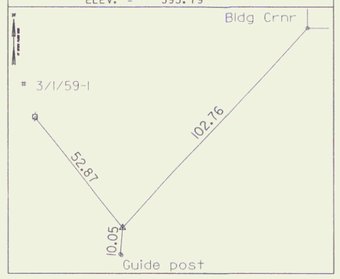
HVCTRL #6

NORTH = 476219.43
EAST = 1600235.20
ELEV. = 589.22



HVCTRL #7

NORTH = 476993.37
EAST = 1600457.03
ELEV. = 593.79



NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

* Main Traverse Completed 11/09/95 by R. Gilman P.C. & T. Morse

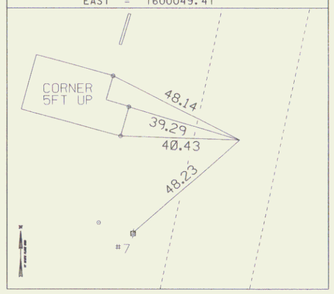
ALIGNMENT TIES

POB 100+00

NORTH = 475263.26
EAST = 1599996.55

POT 102+50.00

NORTH = 475507.61
EAST = 1600049.41



POT 103+25.50

= POB 200+00.00

NORTH = 475584.33
EAST = 1600066.01

POT 104+29.25

= POB 300+00.00

NORTH = 475682.80
EAST = 1600087.32

POT 106+36.00

= POB 300+00.00

NORTH = 475884.88
EAST = 1600131.04

* Alignment Staked 9/24/08 by R.Gilman P.C. & P.Winters & T.Parker

DATUM

VERTICAL NAVD 88

HORIZONTAL NAD 83 (92)

ADJUSTMENT Compass

TIE SHEET

PROJECT NAME: BETHEL

PROJECT NUMBER: BHF 024I(30)S

FILE NAME: 95c002\STR2\ s95c002ti.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: R. BULLOCK

PLOT DATE: 03-DEC-2009
DRAWN BY: R. BULLOCK
CHECKED BY: U. STANLEY

ROW SHEET 7 OF 18

7

EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REPLACEMENT OF A BRIDGE OVER LOCUST CREEK. A NEW DOUBLE LANE, SINGLE SPAN BRIDGE WILL BE CONSTRUCTED ON THE EXISTING ALIGNMENT WHILE TRAFFIC IS MAINTAINED ON A TEMPORARY BRIDGE DURING CONSTRUCTION. FOLLOWING COMPLETION OF THE NEW BRIDGE, THE TEMPORARY BRIDGE WILL BE REMOVED. THE BRIDGE IS LOCATED ON VT ROUTE 12 IN THE TOWN OF BETHEL. TOTAL ROADWAY APPROACH WORK, INCLUDING BOTH APPROACHES, IS 940 FEET.

NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, INCLUDING ANY WASTE, STAGING AND BORROW AREAS WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 1.98 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

THE PROPERTY SURROUNDING THE PROJECT SITE CONSISTS OF WELL ESTABLISHED VEGETATION, MODERATELY SLOPING, MIXED SOFTWOOD AND HARDWOOD FOREST. THERE ARE A FEW HOUSES WITH GRASS AND TREE BUFFERS. DUE TO THE NATURE OF THE SURROUNDING TERRAIN, RUNOFF WATER ENTERING THE PROJECT SITE WILL BE PRIMARILY LIMITED TO THAT WHICH IS CONVEYED VIA GRASS SURFACES, A ROADWAY DITCH, AND THAT WHICH FOLLOWS VT ROUTE 12 ALONG THE 1.4% GRADE AT THE BEGINING OF THE PROJECT LIMITS. THE CURRENT ROADWAY DITCHES ARE NOT WELL DEFINED AND ARE NOT LINED WITH STONE.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

LOCUST CREEK IS THE ONLY WATER SOURCE ON THE PROJECT SITE. THE BROOK IS CLASSIFIED AS HILLY TO MOUNTAINOUS, MOSTLY FORESTED WITH A STREAM BED CONSISTING OF GRAVEL, COBBLES AND A FEW BOULDERS. THE TRIBUTARY AREA AT THE BRIDGE CROSSING IS 24.8 SQ. MI. DISTURBANCE OF SOILS NEAR NATURAL OR MAN-MADE WATERWAYS CONSISTS OF THAT WHICH IS NECESSARY TO CONSTRUCT TWO NEW CONCRETE BRIDGE ABUTMENTS AND APPLICABLE ROADWAY APPROACHES AS WELL AS THE REMOVAL OF THE EXISTING CROSSING. STABILIZATION OF DISTURBANCES TO STREAM BANKS WILL BE ACCOMPLISHED WITH STONE FILL, TYPE III.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

THE TOPOGRAPHY OF THE PROJECT SITE IS HILLY TO MOUNTAINOUS WITH VT ROUTE 12 FOLLOWING PARALLEL TO LOCUST CREEK WHICH IS CONTAINED BY STEEP RIVER BANKS ALONG EACH SIDE. DEVELOPMENT ALONG VT ROUTE 12 CONSISTS OF PERMANENT RESIDENCES. OVERHEAD UTILITY SERVICE FOLLOWS ALONG VT ROUTE 12 WITH THE NEED FOR RELOCATION OF THE UTILITY POLES POSSIBLE.

1.2.4 VEGETATION

A MIX OF HARDWOOD AND SOFTWOOD TREES OF ALL SIZES EXIST ALONG VT ROUTE 12. THE TWO RESIDENCES NEAR THE BRIDGE SITE HAVE SMALL AREAS OF LAWN AND LANDSCAPE PLANTINGS. NO FIELDS OR OTHER AGRICULTURAL CROPS EXIST NEAR THE PROJECT. IMPACTS TO VEGETATION WILL BE LIMITED TO THAT WHICH ARE AFFECTED BY THE CONSTRUCTION OF THE NEW BRIDGE ALONG THE EXISTING ALIGNMENT AND A TEMPORARY BRIDGE LOCATED DOWNSTREAM OF THE EXISTING STRUCTURE. PRIOR TO CONSTRUCTION OF THE NEW BRIDGE, THE EXISTING BRIDGE AND ROADWAY APPROACHES WILL BE REMOVED, THE SLOPES STABILIZED WITH STONE FILL AND VEGETATION REESTABLISHED WITH STANDARD SEED & MULCH PRACTICES.

1.2.5 SOILS

THE SOIL CONSERVATION SERVICE HAS MAPPED THE SOILS THROUGHOUT WINDSOR COUNTY. THE SOIL TYPE IDENTIFIED FOR THIS PROJECT SITE IS AGAWAM FINE SANDY LOAM. THIS SOIL TYPE IS DESCRIBED AS DEEP, WELL DRAINED, LEVEL TO STEEP SOILS ON STREAM TERRACES HAVING MODERATE AVAILABLE WATER CAPACITY, NATURAL FERTILITY IS LOW, PERMEABILITY IS MODERATELY RAPID AND THE SHRINK-SWELL POTENTIAL IS LOW. STEEP AREAS ARE IN WOODLAND OR ARE IDLE.

THE LISTED SOIL ERODIBILITY COEFFICIENT (K-VALUE) FOR THIS SOIL TYPE IS 0.28. GENERALLY, K-VALUES INDICATE THE FOLLOWING: 0.0 - 0.23 = LOW ERODIBILITY; 0.24 - 0.36 = MODERATE ERODIBILITY; 0.37 AND HIGHER = HIGH ERODIBILITY.

1.2.6 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: YES
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: LOCUST CREEK
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT HAS BEEN DETERMINED TO BE LOW RISK BASED ON THE FOLLOWING CONCLUSIONS. BASIC RISK EVALUATION RESULTED IN A MORE DETAILED ANALYSIS TO DETERMINE RISK AND RESULTED IN THE FOLLOWING REQUIREMENTS:

1. THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL MUST BE ON SITE AND COMPLIED WITH AT ALL TIMES

2. ALL AREAS MUST HAVE TEMPORARY OR FINAL STABILIZATION WITHIN 7 DAYS OF THE INITIAL DISTURBANCE AND STABILIZED THEREAFTER ON A DAILY BASIS. THE FOLLOWING EXCEPTIONS APPLY:

   A. STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN 24 HOURS AND NO PRECIPITATION IS FORECASTED FOR THE NEXT 24 HOURS.

   B. STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION WITH A DEPTH OF 2 FEET OR GREATER.

3. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT RESULTING IN DISCHARGE OF STORMWATER FROM THE CONSTRUCTION SITE.

4. IF THERE IS A DISCHARGE OF VISIBLY DISCOLORED STORMWATER FROM THE CONSTRUCTION SITE OR FROM THE CONSTRUCTION SITE TO WATERS OF THE STATE, THE PERMITEE SHALL TAKE IMMEDIATE CORRECTIVE ACTION.

5. IF, AFTER COMPLETING CORRECTIVE ACTION, THERE CONTINUES TO BE A DISCHARGE OF SEDIMENT FROM THE CONSTRUCTION SITE TO WATERS OF THE STATE, THE PERMITEE SHALL NOTIFY DEC BY SUBMITTING A REPORT WITHIN 72 HRS OF THE DISCHARGE.

ANY MODIFICATIONS TO THE PROJECT SHALL RESULT IN A RE-EVALUATION OF THE RISK AND THAT THE CONTRACTOR IS RESPONSIBLE FOR RE-FILING SHOULD THE RISK CHANGE.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE WORK OUTLINED IN THIS NARRATIVE CONSISTS OF APPLYING MEASURES THROUGHOUT THE LIFE OF THE PROJECT MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLLUTION PREVENTION CONTROLS.

PREVENTING INITIAL SOIL EROSION IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. 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.

MEASURES SUCH AS SILT FENCE SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT BUILD-UP SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT REACHES ONE-HALF THE HEIGHT OF THE CONTROL MEASURE. SEDIMENT SHALL BE DISPOSED AT AN APPPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

(REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR EACH PRACTICE REQUIRED ON THE PROJECT TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING.)

1.4.1 MARK SITE BOUNDARIES
PROJECT DEMARCATION FENCING, DENOTED -PDF- ON THE PLANS, IS USED TO DELINEATE THE LIMITS THE CONTRACTOR CAN ACCESS WITH CONSTRUCTION EQUIPMENT. THIS MEASURE LIMITS THE AREA THAT CAN BE DISTURBED AND EXPOSED TO EROSION.

1.4.2 LIMIT DISTURBANCE AREA
EMPLOY TEMPORARY STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION PROCEEDS. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ENGINEER.

1.4.3 STABILIZE CONSTRUCTION EXIT
STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED AS NECESSARY.

1.4.4 INSTALL SILT FENCE
SILT FENCE SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK AS SHOWN ON THE PLANS OR AS NECESSARY.

1.4.5 DIVERT UPLAND RUNOFF
SWALE (STORM WATER FROM STREET COLLECTIONS DRAINAGE SYSTEM)

1.4.6 SLOW DOWN CHANNELIZED RUNOFF
CHECK DAMS SHALL BE UTILIZED AS NECESSARY.

1.4.7 CONSTRUCT PERMANENT CONTROLS
STONE FILL, TYPE III FOR SLOPE LINING AND CHANNEL PROTECTION
SEED AND MULCH

STREAM BANK VEGETATION WILL BE INTRODUCED IN THE GRUBBING MATERIAL THAT IS TO BE PLACED OVER THE STREAM BANK STONE FILL.

1.4.8 STABILIZE EXPOSED SOILS
SEED AND MULCH
EROSION MATTING

TRACKING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, WILL BE UTILIZED ON A REGULAR BASIS. SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF FORECASTED RAIN. ANY SLOPES TO BE EXPOSED FOR SEVERAL DAYS PRIOR TO FINAL GRADING SHALL BE TRACKED AND MULCHED. SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING INTERMITTENT PHASES OF CONSTRUCTION.

1.4.9 WINTER STABILIZATION
VARIOUS MEASURES SPECIFIC TO WINTER (SEE LOW RISK HANDBOOK)

1.4.10 STABILIZE SOIL AT FINAL GRADE
SEED AND MULCH
EROSION MATTTING

SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE OR DURING INTERMITTENT PHASES OF CONSTRUCTION.

1.4.11 DE-WATERING ACTIVITIES
THE CONTRACTOR SHALL PROVIDE DETAILS FOR SEDIMENT DEWATERING METHODS WITH COFFERDAM DESIGN. SEE "EPSC CONSTRUCTION SHEET 2" FOR POTENTIAL DEWATERING LOCATION.

1.4.12 INSPECT YOUR SITE
INSPECT SITE BASED ON PERMIT AUTHORIZATION OR SPECIAL PROVISION REQUIREMENTS.

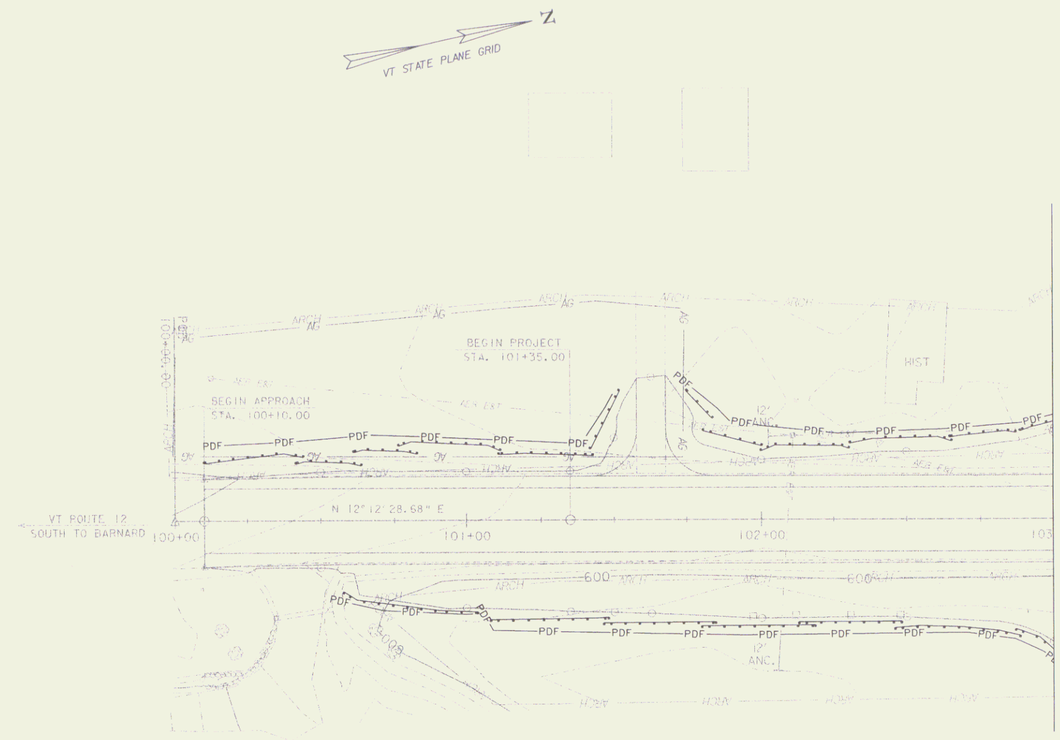
EPSC NARRITIVE

PROJECT NAME: BETHEL

PROJECT NUMBER: BHF 024I(30)S

FILE NAME: 95c002\str\s95c002ecn.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: U.STANLEY

PLOT DATE: 03-DEC-2009
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY
ROW SHEET 8 OF 18



LEGEND

HIST	HISTORIC / HISTORIC DISTRICT
ARCH	ARCHEOLOGICAL SITE
	SILT FENCE
PDF	PROJECT DEMARCATION FENCE
AG	AGRICULTURAL LAND

SCALE 1" = 20'-0"
20 0 20

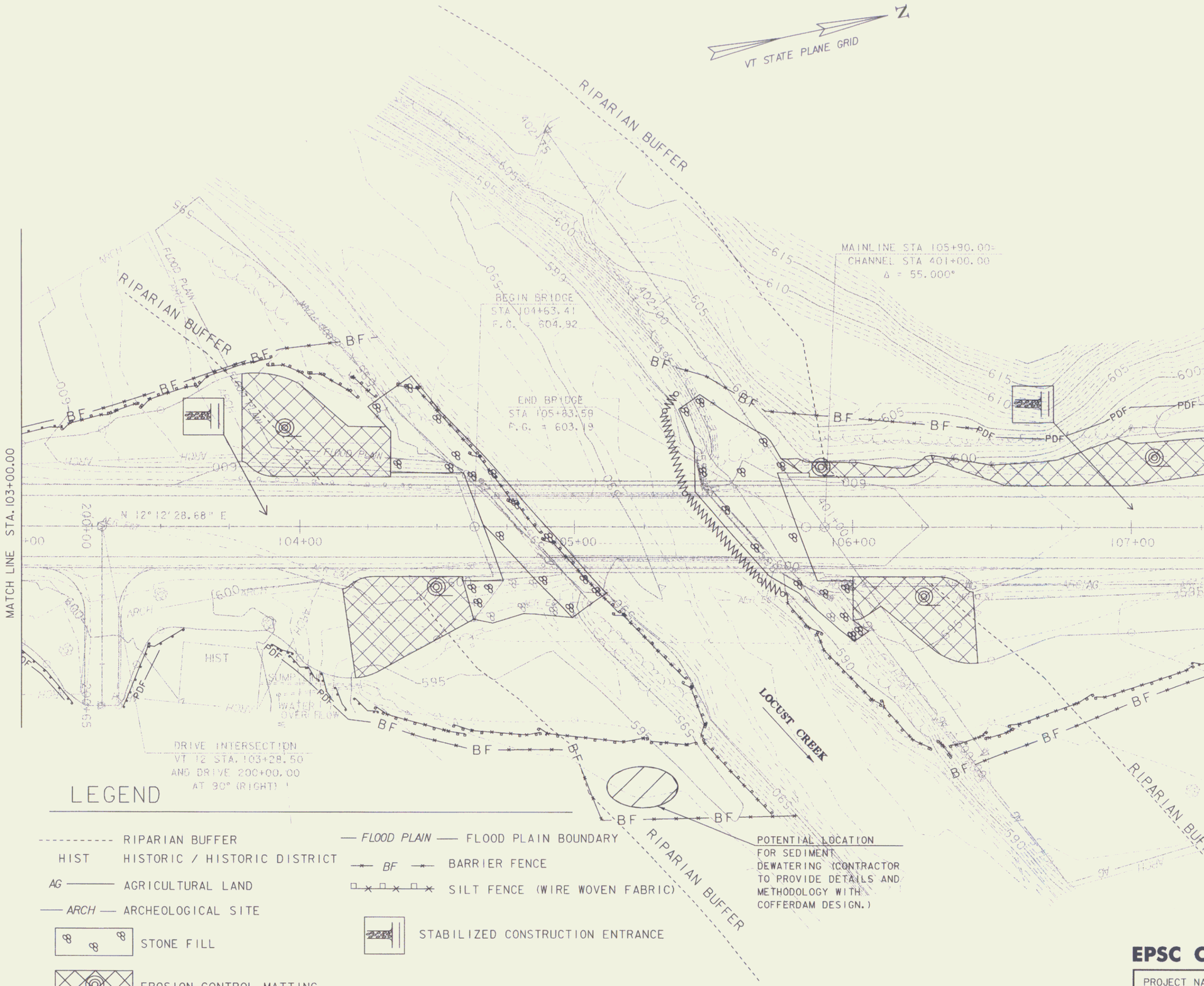
EPSC CONSTRUCTION SHEET 1

PROJECT NAME: BETHEL

PROJECT NUMBER: BHF 024I(30)S

FILE NAME: 95c002\str\sc002bdr.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: U.STANLEY

PLOT DATE: 03-DEC-2009
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY
ROW SHEET 9 OF 18



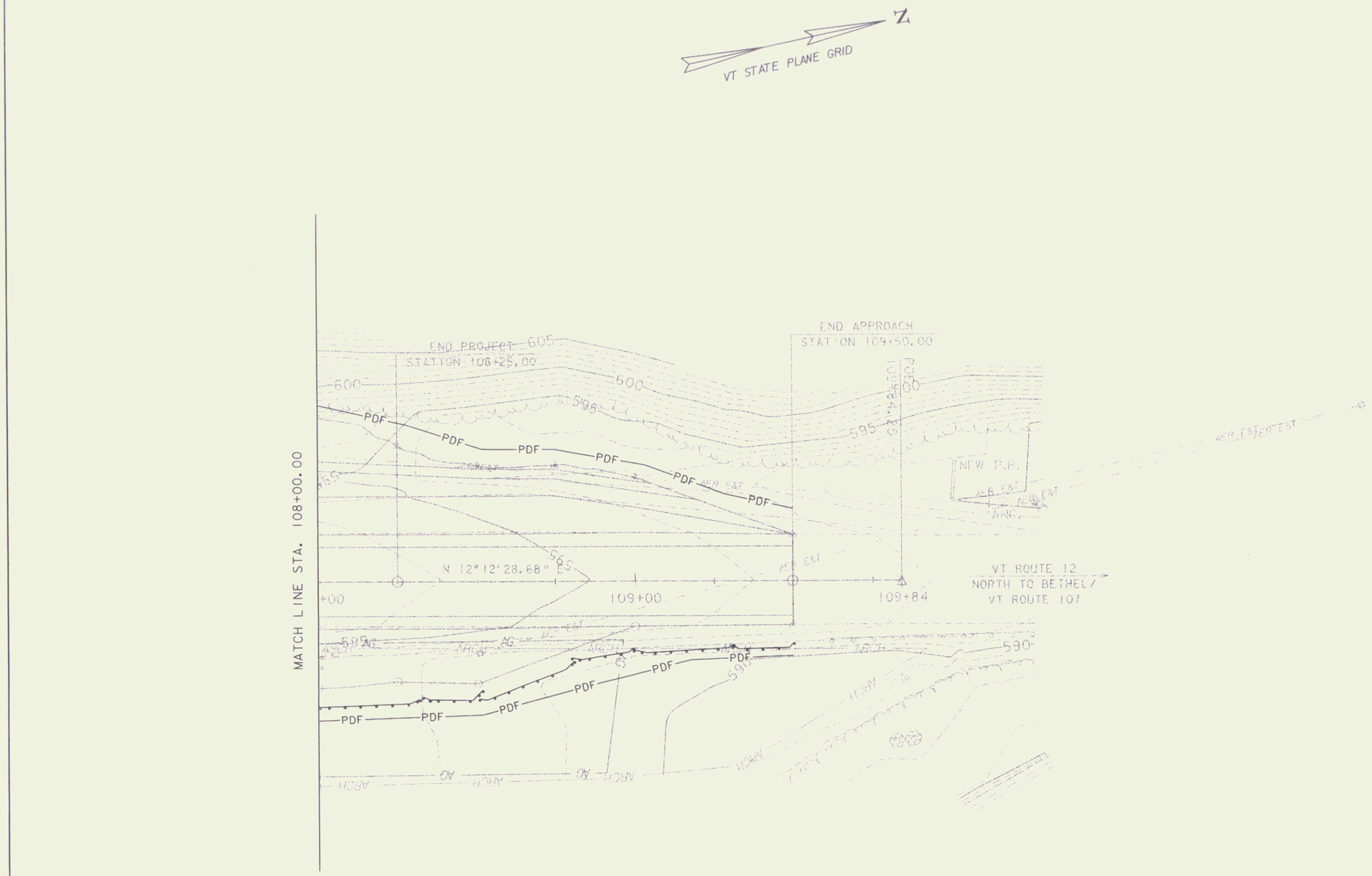
LEGEND

- RIPARIAN BUFFER
- HIST — HISTORIC / HISTORIC DISTRICT
- AG — AGRICULTURAL LAND
- ARCH — ARCHEOLOGICAL SITE
- STONE FILL
- EROSION CONTROL MATTING
- SILT FENCE
- PDF — PROJECT DEMARCATION FENCE
- TURBITITY CURTIAN
- FLOOD PLAIN — FLOOD PLAIN BOUNDARY
- BF — BARRIER FENCE
- SILT FENCE (WIRE WOVEN FABRIC)
- STABILIZED CONSTRUCTION ENTRANCE

SCALE 1" = 20'-0"
20 0 20

EPSC C

PROJECT NA	
PROJECT NU	
FILE NAME:	
PROJECT LE	
DESIGNED BY	



LEGEND

- AG ——— AGRICULTURAL LAND
- —— ARCH —— ARCHEOLOGICAL SITE
- SILT FENCE
- —— PDF —— PROJECT DEMARCATION FENCE
- EROSION CONTROL MATTING

SCALE 1" = 20'-0"
20 0 20

EPSC C

PROJECT N	
PROJECT N	
FILE NAME:	
PROJECT L	
DESIGNED B	

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version 09.02.01

LRFD

INDEX OF SHEETS

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STANDARDS LIST

FINAL HYDRAULIC REPORT

HYDROLOGIC DATA

Date: December 2006

DRAINAGE AREA : 24.8 sq. mi.
CHARACTER OF TERRAIN : Hilly to mountainous, mostly forested.
STREAM CHARACTERISTICS : Sinuous valley stream with narrow flood plains.
NATURE OF STREAMBED : Gravel, cobbles and a few boulders.

PEAK FLOW DATA

Q 2.33 =	1000 cfs	Q 50 =	3700 cfs
Q 10 =	2200 cfs	Q 100 =	4400 cfs
Q 25 =	3000 cfs	Q 500 =	6600 cfs

DATE OF FLOOD OF RECORD: Unknown
ESTIMATED DISCHARGE: Unknown
WATER SURFACE ELEV.: Unknown
NATURAL STREAM VELOCITY: @ Q50 = 8.5 fps
ICE CONDITIONS : Moderate to severe
DEBRIS: Moderate
DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? No
IS ORDINARY RISE RAPID? Yes
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No
IF YES, DESCRIBE:

WATERSHED STORAGE: 1% HEADWATERS:
UNIFORM: X
IMMEDIATELY ABOVE SITE:

EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE: Single span steel beam bridge with concrete deck
YEAR BUILT: 1939
CLEAR SPAN(NORMAL TO STREAM): 58'
VERTICAL CLEARANCE ABOVE STREAMBED: 9.5'
WATERWAY OF FULL OPENING: 440 sq. ft.
DISPOSITION OF STRUCTURE: Remove
TYPE OF MATERIAL UNDER SUBSTRUCTURE: Unknown

WATER SURFACE ELEVATIONS AT:

Q2.33 =	593.3'	VELOCITY =	8.1 fps
Q10 =	595.3'	"	9.8 fps
Q25 =	596.6'	"	10.4 fps
Q50 =	597.5'	"	11.0 fps
Q100 =	600.7'	"	10.1 fps

LONG TERM STREAMBED CHANGES: There is a gravel bar in the middle of the channel at the bridge, with flow along both abutments. No other streambed changes were noted.

IS THE ROADWAY OVERTOPPED BELOW Q100: No
FREQUENCY: Above Q100
RELIEF ELEVATION: 601.0'
DISCHARGE OVER ROAD @Q100: None

UPSTREAM STRUCTURE

TOWN: Bethel — DISTANCE: 2490'
HIGHWAY # : T.H. 79 — STRUCTURE #: 48
CLEAR SPAN: 37' — CLEAR HEIGHT: 15'
YEAR BUILT: 1927 — FULL WATERWAY: 320 sq. ft.
STRUCTURE TYPE: Single span concrete T-beam bridge

DOWNSTREAM STRUCTURE

TOWN: Bethel — DISTANCE: 2000'
HIGHWAY # : VT 107 — STRUCTURE #: 12
CLEAR SPAN: 160' — CLEAR HEIGHT: 20'
YEAR BUILT: 1959 — FULL WATERWAY: 2700 sq. ft.
STRUCTURE TYPE: Two span steel beam bridge with concrete deck

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR	4A STR	5A SEM
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY	3.24	1.13					
POSTING							
OPERATING	4.21	1.46	1.85	1.13	1.86	1.65	
COMMENTS:							

PROPOSED STRUCTURE

STRUCTURE TYPE: Single span steel beam bridge with concrete deck

CLEAR SPAN(NORMAL TO STREAM): 73'
VERTICAL CLEARANCE ABOVE STREAMBED: 11'
WATERWAY OF FULL OPENING: 620 sq. ft.

WATER SURFACE ELEVATIONS AT:

Q2.33 =	592.7'	VELOCITY=	7.7 fps
Q10 =	594.8'	"	8.3 fps
Q25 =	596.0'	"	8.3 fps
Q50 =	596.9'	"	8.5 fps
Q100 =	597.9'	"	8.7 fps

IS THE ROADWAY OVERTOPPED BELOW Q100: No
FREQUENCY: Above Q100
RELIEF ELEVATION: 602.7'
DISCHARGE OVER ROAD @Q100: None

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 598.6'
VERTICAL CLEARANCE: @ Q50 = 1.7'

SCOUR: 3.3' of scour up to a Q500.

REQUIRED CHANNEL PROTECTION: Stone Fill, Type III

PERMIT INFORMATION

AVERAGE DAILY FLOW:	35 cfs	DEPTH OR ELEVATION:
ORDINARY LOW WATER:	20 cfs	Depth = 0.6'
ORDINARY HIGH WATER:	320 cfs	Depth = 2.6'

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: Single span bridge
CLEAR SPAN (NORMAL TO STREAM): 56' minimum
VERTICAL CLEARANCE ABOVE STREAMBED: Minimum beam elev. 597.1'
WATERWAY AREA OF FULL OPENING: 400 sq. ft. minimum

ADDITIONAL INFORMATION

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TWO-WAY TRAFFIC ON A TEMPORARY BRIDGE.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY
4. THE APPROACHES FOR THE TEMPORARY BRIDGE SHALL BE PAVED.

DESIGN VALUES

1. DESIGN LIVE LOAD		HL-93
2. FUTURE PAVEMENT	d_P:	3.0 INCH
3. DESIGN SPAN	L:	117.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ	---
5. PRESTRESSING STRAND (0.60 INCH DIAMETER - LOW RELAX)	f_y:	270 KSI
6. PRESTRESSED CONCRETE STRENGTH	f'_c:	6.0 KSI
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	5.0 KSI
8. CONCRETE, HIGH PERFORMANCE CLASS AA	f'_c:	4.0 KSI
9. CONCRETE, HIGH PERFORMANCE CLASS A	f'_c:	4.0 KSI
10. CONCRETE, HIGH PERFORMANCE CLASS B	f'_c:	3.5 KSI
11. CONCRETE, CLASS C	f'_c:	3.0 KSI
12. REINFORCING STEEL	f_y:	60 KSI
13. STRUCTURAL STEEL AASHTO M270 (WEATHERING)	F_y:	50 KSI
14. SOIL UNIT WEIGHT	γ:	0.140 KCF
15. NOMINAL BEARING RESISTANCE OF SOIL	q_n:	4.0 KSF
16. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ	---
17. NOMINAL BEARING RESISTANCE OF ROCK	q_n:	10.0 KSF
18. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ	---
19. NOMINAL AXIAL PILE RESISTANCE	q_p:	---
20. PILE YIELD STRENGTH ASTM A572	f_y:	---
21. PILE SIZE		---
22. EST. PILE LENGTH	L_p:	
23. PILE RESISTANCE FACTOR	ϕ	---
24. LATERAL PILE DEFLECTION	Δ	---
25. BASIC WIND SPEED	V_{3s}	---
26. MINIMUM GROUND SNOW LOAD	p_g	---
27. SEISMIC DATA PGA ---	S_s	---
	S_1	---

PROJECT NAME: **BETHEL**
PROJECT NUMBER: **BHF 0241(30)S**

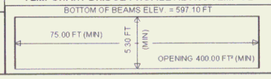
FILE NAME: r95c002PLxls — PLOT DATE: 10/22/2009
PROJECT LEADER: M.EVANS-MONGEON — DRAWN BY: G.ROKES
DESIGNED BY: — CHECKED BY: U.STANLEY
PRELIMINARY INFORMATION SHEET 1 — ROW SHEET (12) OF 18

TRAFFIC DATA

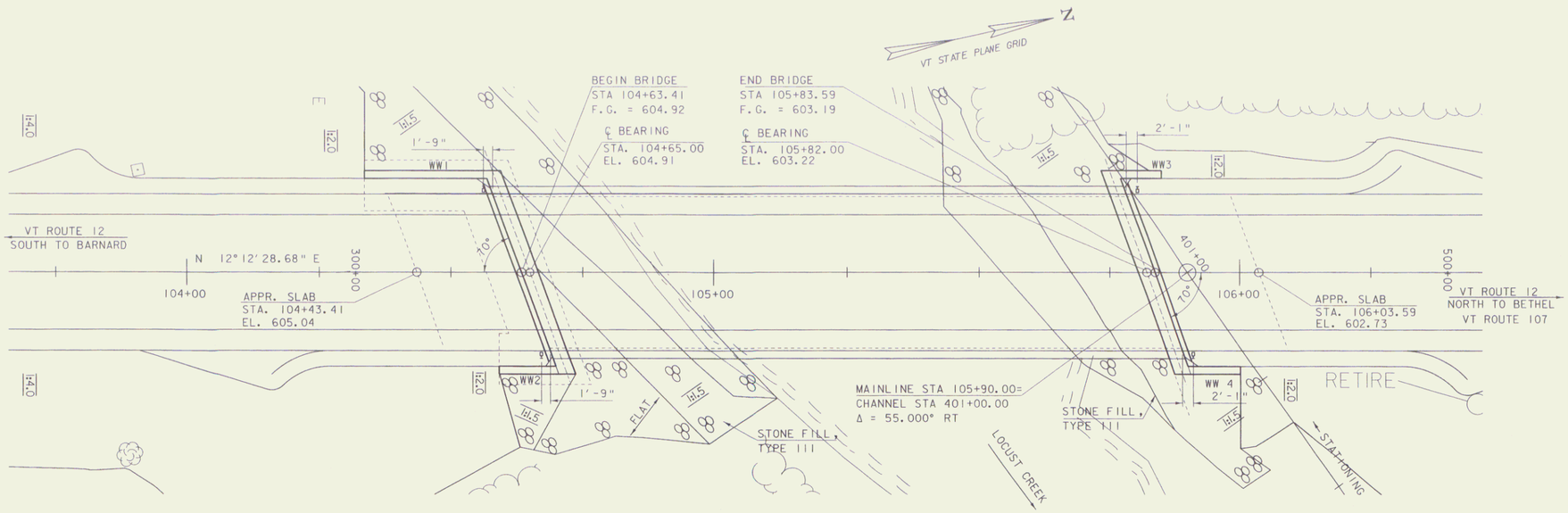
YEAR	ADT	DHV	% D	% T	ADTT	
2007	1300	190	60	6	120	20 year ESAL for flexible pavement from 2007 to 2027 : 727000
2027	1600	230	60	9	230	40 year ESAL for flexible pavement from 2007 to 2047 : 1748000
						Design Speed : 50 mph

TEMPORARY BRIDGE PROFILE ALONG TEMP CL

BOTTOM OF BEAMS ELEV. = 597.10 FT

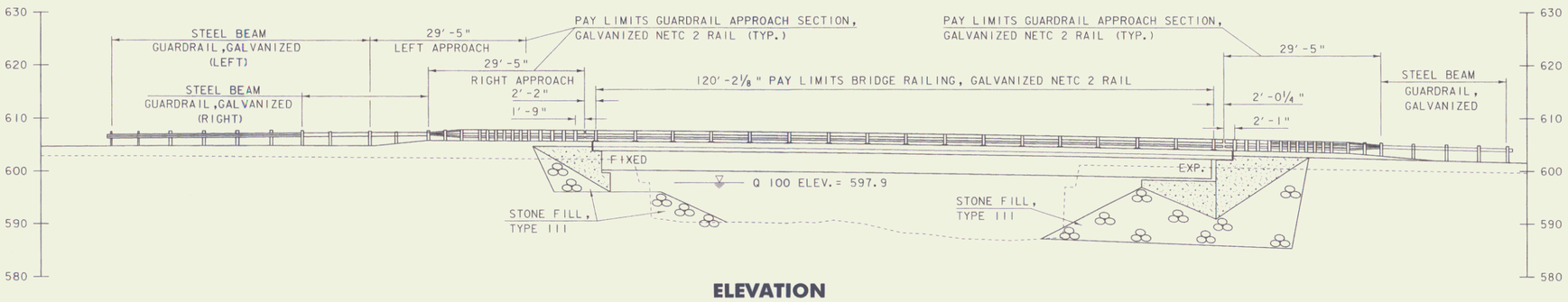


12



PLAN

SCALE 1" = 10'-0"
10 0 10



ELEVATION

SCALE 1" = 10'-0"
10 0 10

PLAN AND ELEVATION SHEET

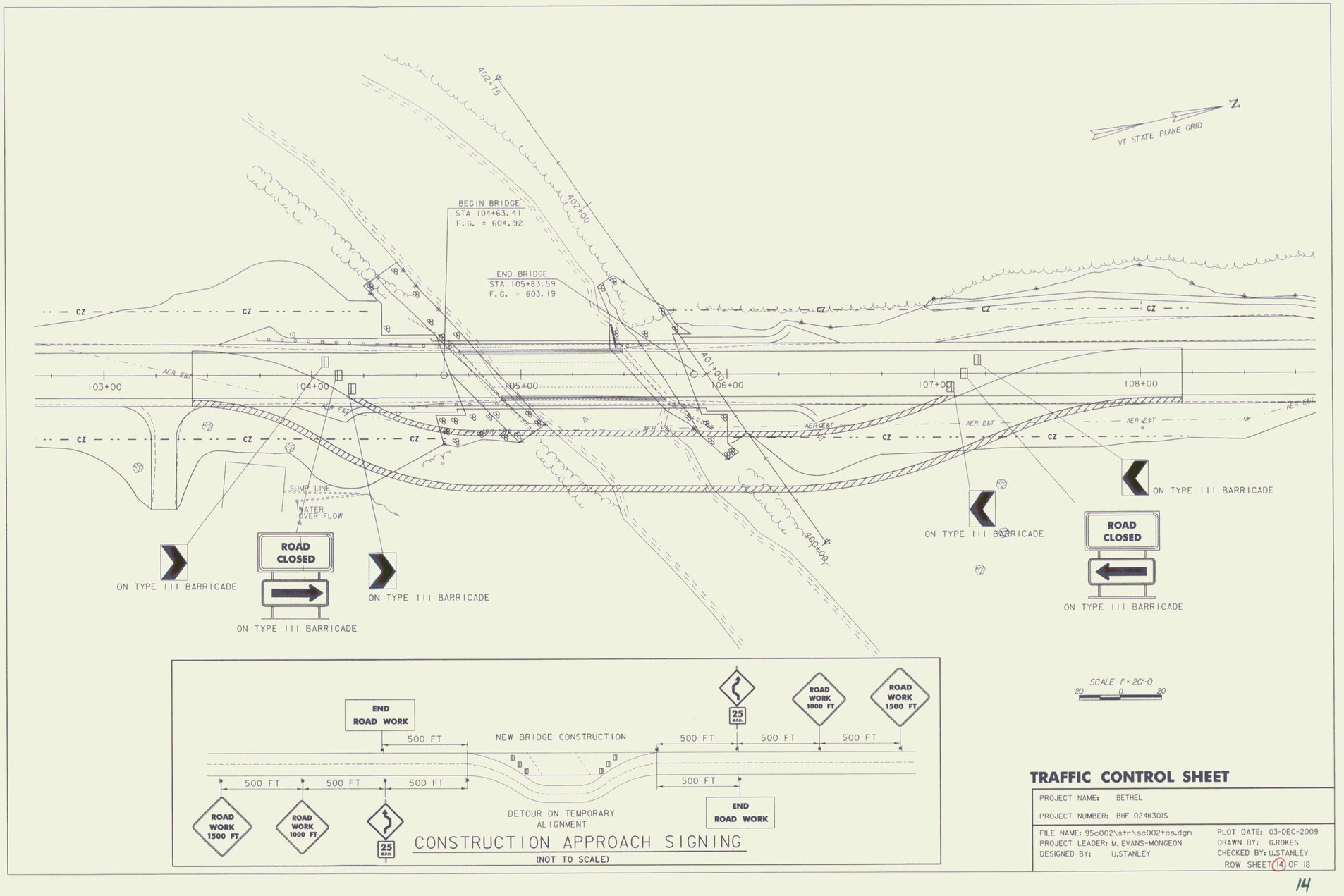
PROJECT NAME: BETHEL

PROJECT NUMBER: BHF 0241(30)S

FILE NAME: s95c002\STR\sc002xs.dgn
PROJECT LEADER: M.EVANS-MONGEON
DESIGNED BY: U.STANLEY

PLOT DATE: 03-DEC-2009
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY

ROW SHEET 13 OF 18



TRAFFIC CONTROL SHEET

PROJECT NAME: BETHEL

PROJECT NUMBER: BHF 024I(30)S

FILE NAME: 95c002\str\sc002tcs.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: U.STANLEY

PLOT DATE: 03-DEC-2009
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY

ROW SHEET (14) OF 18

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	SUAREZ, MANUEL & MICHAELA	16,17	101+05.39 LT	105+00.00 LT	0.33A		ALL R.T. & I.								HWY. EASE. VT. RTE. 12
			101+63.00 LT				DRIVE	(T)							10' GRAVEL MM 0098
			101+70.83 LT	101+80.89 LT			INSTALL	(T)							PDF & EC
			102+12.45 LT				REMOVE	(T)							GUY WIRE & ANCHOR
			102+26.76 LT	105+00.00 LT			UE	(P)	0.04A						1,829 S.F.±
			102+90.12 LT	104+41.10 LT			CONST.	(T)	0.03A						INCLUDES PDF,BF & EC; 1,513 S.F.±
			103+22.43 LT	104+33.56 LT			SLOPE	(T)	0.03A						1,312 S.F.±
			104+24.60 LT				INSTALL & MAINTAIN	(P)							GUY WIRE & ANCHOR
			104+25.08 LT	104+59.92 LT			CHANNEL	(P)	0.01A						402 S.F.±
			103+00.00 CL				ALL R. T. & I.								WATER LINE & SLEEVE
2	McKINSTRY, MARK A. SR. & JANET K.	16,17	101+05.39 RT	103+08.55 RT			CONST.	(T)	0.03A	COND.	02/23/11	BETHEL	101	443-445	INCLUDES PDF & EC; 1,143 S.F.±
	SCHENKER, JOSEF H. & SHERYL		101+78.92 RT	103+15.77 RT			SLOPE	(T)	55 S.F.						
			102+02.76 RT	102+08.06 RT			UE	(P)							GUY WIRE & ANCHOR
			102+06.05 RT				INSTALL & MAINTAIN	(P)							
3	SCHENKER, JOSEF H. & SHERYL	16,17,18	101+05.39 RT	109+20.95 RT	0.65 A		ALL R. T. & I.			COND.	02/23/11	BETHEL	101	443-445	HWY. EASE. VT. RTE 12
			103+00.00 CL				ALL R. T. & I.								WATER LINE & SLEEVE
			103+08.55 RT	103+18.51 RT			INSTALL	(T)							PDF & EC
			103+28.50 RT				DRIVE	(T)							12' GRAVEL; MM 0101
			103+35.88 RT	103+58.01 RT			INSTALL	(T)							PDF & EC
			103+41.21 RT	104+63.04 RT			SLOPE	(T)	0.03A						1,255 S.F.±
			103+88.82 RT	105+79.97 RT			CONST.	(T)	0.07A						INCLUDEF PDF, BF & EC; 2,908 S.F.±
			103+88.82 RT	107+48.68 RT			DETOUR	(T)	0.27A						2 WAY VEHICULAR; INCLUDES EC
			103+87.04 RT	104+20.14 RT			UE	(T)							WIRE CONNECTION
			104+20.14 RT	104+28.20 RT			UE	(P)	242 S.F.						
			104+63.04 RT	104+75.84 RT			CHANNEL	(P)	12 S.F.						
			104+62.88 RT				REMOVE	(T)							GUY WIRE & ANCHOR
			106+22.43 RT	108+73.45 RT			CONST.	(T)	0.07A						3,061 S.F.±INCLUDES PDF, BF & EC
			105+90.90 RT	106+05.68 RT			CHANNEL	(P)	56 S.F.						
			106+15.16 RT	108+00.00 RT			SLOPE	(T)	0.02A						1,017 S.F.±
			103+15.77 RT	103+88.82 RT			REMOVE	(T)							(2) TREES/ SHRUBS
			103+40.00 RT.	104+00.00 RT.			LANDSCAPE	(T)							LANDSCAPE (2) TREES/ SHRUBS
4	SHEKINAH, LINDA L.	17	105+00.00 LT	105+81.72 LT	0.06A		ALL R.T. & I.			WD	11/13/10	BETHEL	101	188	HWY. EASE. VT. RTE. 12; 2,680 S.F.±
			104+93.10 LT	105+81.72 LT			UE	(P)	0.02A						895 S.F.±
			105+22.90 LT	105+81.72 LT			CONST.	(T)	0.01A						INCLUDES PDF, BF & EC; 570 S.F.±
			105+37.46 LT	105+69.00 LT			CHANNEL	(P)	245 S.F.						
			105+37.46 LT	105+81.72 LT			REMOVE	(T)							REMOVE EXISTING DRIVE
			105+37.46 LT	105+81.72 LT			REMOVE	(P)							PERMANENT REMOVAL OF VEHICULAR
															ACCESS TO VT. RTE. 12
5	DURFEE. JOHN B.	17,18	105+81.72 LT	109+20.95 LT	0.28A		ALL R. T. & I.			WD	01/27/11	BETHEL	101	396	HWY. EASE. VT. RTE. 12
			105+76.85 LT	109+20.95 LT			UE	(P)	0.07A						3,142 S.F.±
			105+78.33 LT	108+92.52 LT			CONST.	(T)	0.05A						INCLUDES PDF, BF ; 2,385 S.F.±
			106+96.19 LT	108+45.66 LT			SLOPE	(T)	0.02A						1,104 S.F.±
			107+00.74 LT	108+26.95 LT			DITCH & DRAINAGE	(P)	251 S.F.						
			108+00.00 LT				INSTALL & MAINTAIN	(P)							GUY WIRE & ANCHOR
6	CENTRAL VT. PUBLIC SERVICE		101+05.39 LT	109+20.95 LT			ALL R.T. & I.			COND.	02/23/11	BETHEL	101	443-445	UTILITY EASEMENTS
	CORPORATION														
7	TELEPHONE OPERATING COMPANY OF		101+05.39 LT	101+20.95 LT			ALL R.T. & I.			COND.	02/23/11	BETHEL	101	443-445	UTILITY EASEMENTS
	VERMONT LLC														

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
1	15,17,18	PARCEL NO. 5 DURFEE: ADD INSTALL & MAINTAIN (P)	12/09/09
		FOR GUY & ANCHOR AT STA. 108+00 LT. PER C.O. 9582	
		MADE BY: MR APPROVED BY: HP	
2	15,17	PARCEL NO. 4 SHEKINAH: CHANGE REMARKS OF REMOVE (T)	06/07/10
		TO "REMOVE EXISTING DRIVE" ADD REMOVE (P) AT STA.	
		105+37.46 LT ~ 105+81.72 LT. REMARKS: "PERMANENT	
		REMOVAL OF VEHICULAR ACCESS TO VT. RTE. 12"	
		PER C.O. 9617	
		MADE BY: MR APPROVED BY: HP	
3	17	PARCEL NO. 5 DURFEE: FOLLOWING TEXT WAS ADDED	01/13/11
		TO LAYOUT SHEET... CONTINGENT UPON APPROVAL	
		OF A TITLE 19 SECTION IIII PERMIT BY THE VAOT.	
		MADE BY: MT C.O. 9697 APPROVED BY: HP	

PLOT DATE 03/23/11

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CZ — CLEAR ZONE
- P / L — PROPERTY LINE
- TOE OF SLOPE
- TOP OF CUT
- SR (P) — SLOPE RIGHT
- CONST. (T) — CONSTRUCTION RIGHT
- PDF ——— PDF — PROJECT DEMARCATION FENCE

EC	-EROSION CONTROL
(P)	-PERMANENT
(T)	-TEMPORARY
DR.	-DRAINAGE RIGHT
DIT.	-DITCHING RIGHT
CH.	-CHANNEL RIGHT
DRIVE	-DRIVE RIGHT
CUL.	-CULVERT RIGHT
C&T	-CLEARING & TRIMMING RIGHT
SR	-SLOPE RIGHT
UE	-UTILITY EASEMENT

APPROVED: HARRY PETROVS DATE: 12-03-09
CHIEF, PLANS & TITLES

PROJECT NAME: **BETHEL**
PROJECT NUMBER: **BHF 0241(30)S**

FILE NAME: r95c002detail.xls
PROJECT LEADER: M E-M
DESIGNED BY: US
R.O.W. DETAIL SHEET #1

PLOT DATE:
DRAWN BY: MR
CHECKED BY: FM
ROW SHEET 15 OF 18

15

4" WHITE LINE

FROM STA.	TO STA.
100+10.00 LT	103+00.00 LT
100+10.00 RT	103+00.00 RT

4" YELLOW LINE (DOUBLE)

FROM STA.	TO STA.
100+10.00	103+00.00

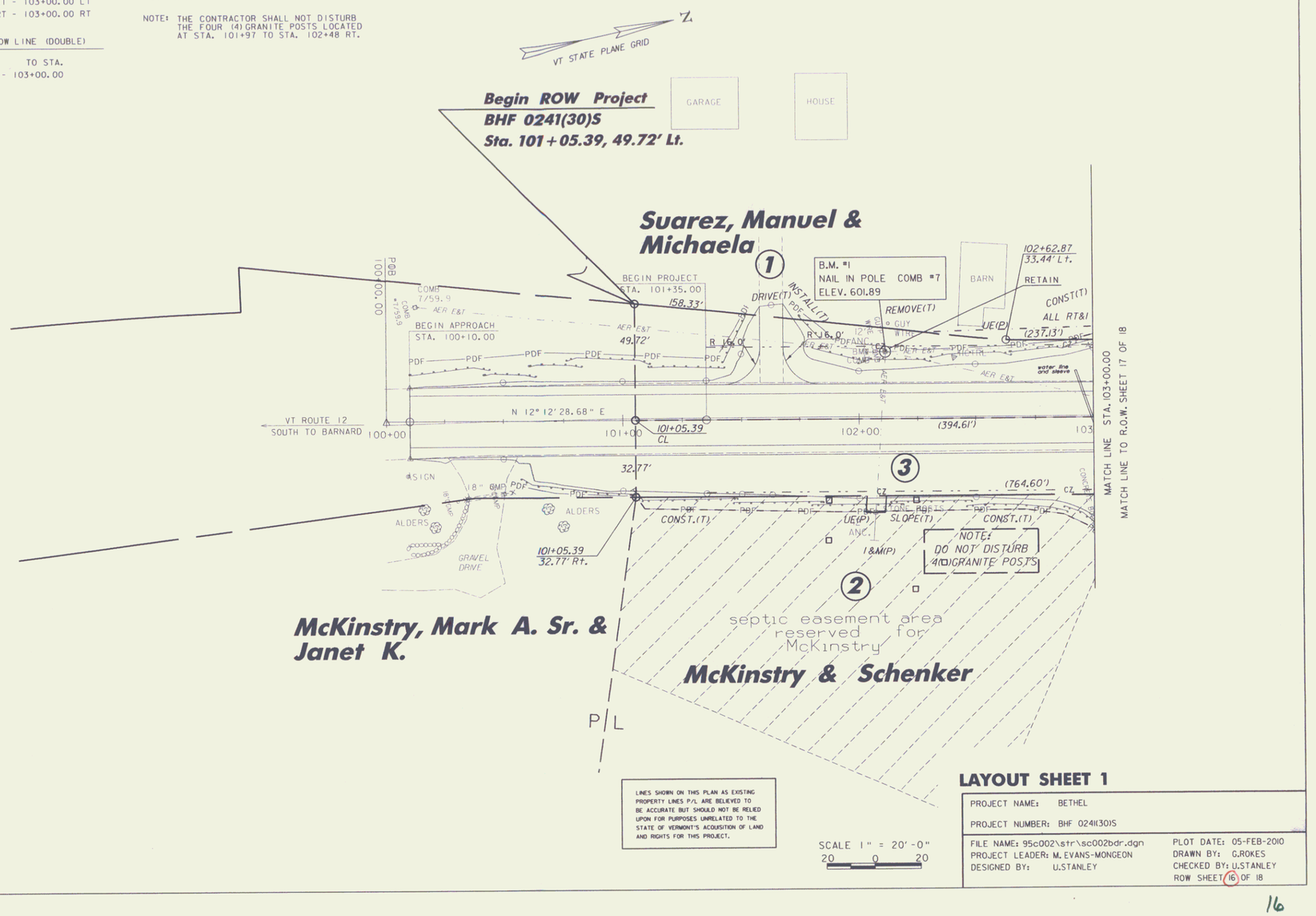
COLD PLANING, BITUMINOUS PAVEMENT

FROM STA.	TO STA.
100+10.00	100+60.00

NOTE: THE CONTRACTOR SHALL NOT DISTURB THE FOUR (4) GRANITE POSTS LOCATED AT STA. 101+97 TO STA. 102+48 RT.

CONSTRUCT DRIVE (GRAVEL)

101+63.00 LT (WIDTH 10')



LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

SCALE 1" = 20'-0"
20 0 20

LAYOUT SHEET 1

PROJECT NAME: BETHEL

PROJECT NUMBER: BHF 024I(30)S

FILE NAME: 95c002\str\sc002bdr.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: U.STANLEY

PLOT DATE: 05-FEB-2010
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY
ROW SHEET 16 OF 18

16

4" WHITE LINE

FROM STA.	TO STA.
103+00.00 LT	108+00.00 LT
103+00.00 RT	108+00.00 RT

4" YELLOW LINE (DOUBLE)

FROM STA.	TO STA.
103+00.00	108+00.00

REMOVAL AND DISPOSAL OF GUARDRAIL

FROM STA.	TO STA.
103+73.00	104+67.00 LT
104+47.00	104+89.00 RT
105+51.00	105+63.00 LT
105+73.00	105+86.00 RT

TRANSPLANTING SHRUBS

STA.	OFFSET
103+49.93	24.65 RT
103+89.10	34.93 RT

ANCHOR FOR STEEL BEAM RAIL

VT 12

103+85.00 LT
104+20.00 RT
106+28.00 LT
106+37.00 RT

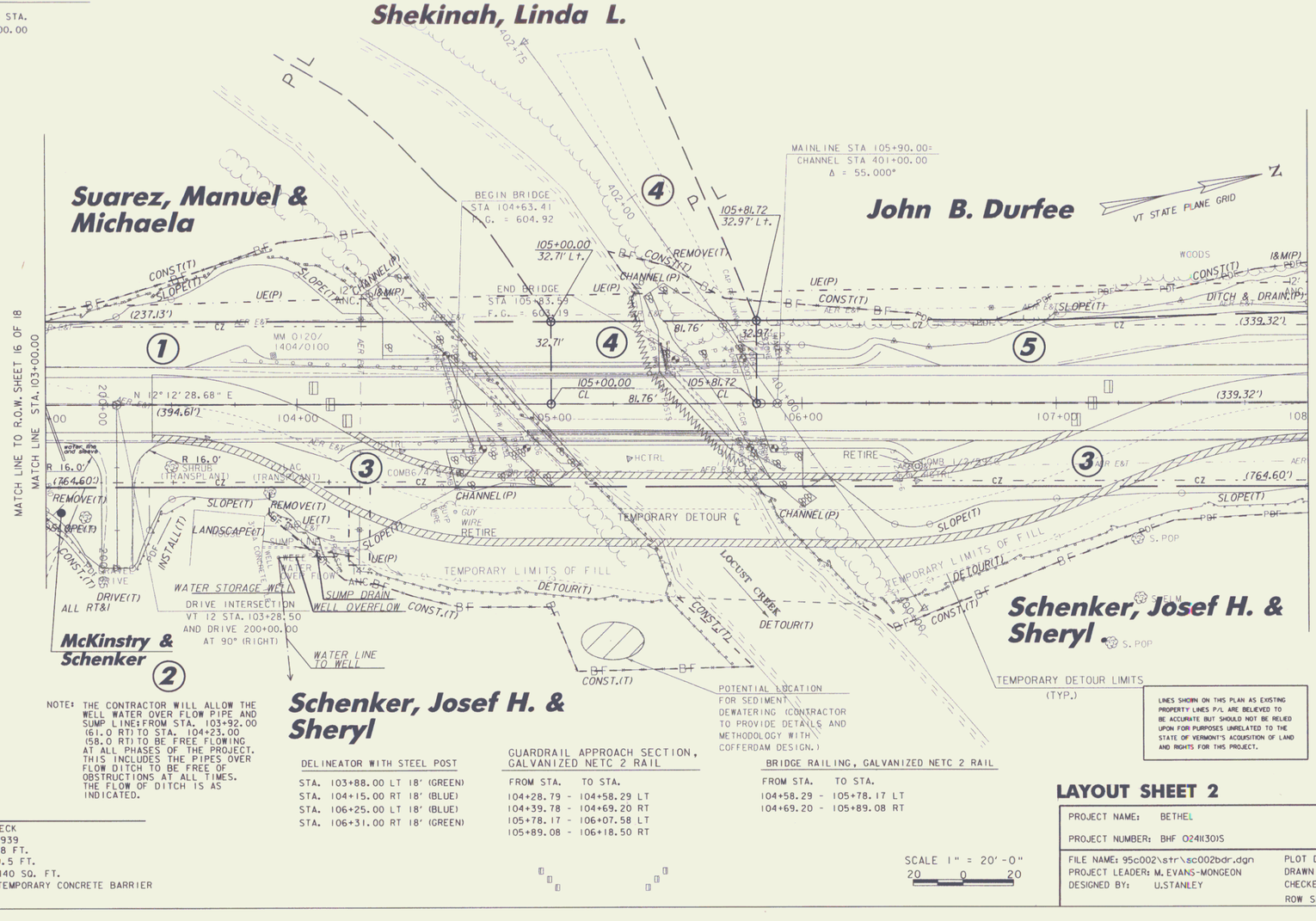
CONSTRUCT DRIVE (GRAVEL)

103+28.50 RT (WIDTH 12')

STEEL BEAM GUARDRAIL, GAVANIZED

VT 12

FROM STA.	TO STA.
103+80.00	104+28.79 LT
104+15.42	104+39.78 RT
106+07.58	106+28.22 LT
106+18.50	106+42.30 RT



NOTE: THE CONTRACTOR WILL ALLOW THE WELL WATER OVER FLOW PIPE AND SUMP LINE: FROM STA. 103+92.00 (61.0 RT) TO STA. 104+23.00 (58.0 RT) TO BE FREE FLOWING AT ALL PHASES OF THE PROJECT. THIS INCLUDES THE PIPES OVER FLOW DITCH TO BE FREE OF OBSTRUCTIONS AT ALL TIMES. THE FLOW OF DITCH IS AS INDICATED.

EXISTING BRIDGE DATA

SIMPLE SPAN WITH CONCRETE DECK
YEAR BUILT: 1939
CLEAR SPAN: 58 FT.
VERTICAL CLEARANCE: 9.5 FT.
WATERWAY OF FULL OPENING: 440 SQ. FT.
EXISTING BRIDGE RAIL: TEMPORARY CONCRETE BARRIER

DELINEATOR WITH STEEL POST

STA.	103+88.00 LT 18' (GREEN)
STA.	104+15.00 RT 18' (BLUE)
STA.	106+25.00 LT 18' (BLUE)
STA.	106+31.00 RT 18' (GREEN)

GUARDRAIL APPROACH SECTION, GALVANIZED NETC 2 RAIL

FROM STA.	TO STA.
104+28.79	104+58.29 LT
104+39.78	104+69.20 RT
105+78.17	106+07.58 LT
105+89.08	106+18.50 RT

BRIDGE RAILING, GALVANIZED NETC 2 RAIL

FROM STA.	TO STA.
104+58.29	105+78.17 LT
104+69.20	105+89.08 RT

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

SCALE 1" = 20'-0"
20 0 20

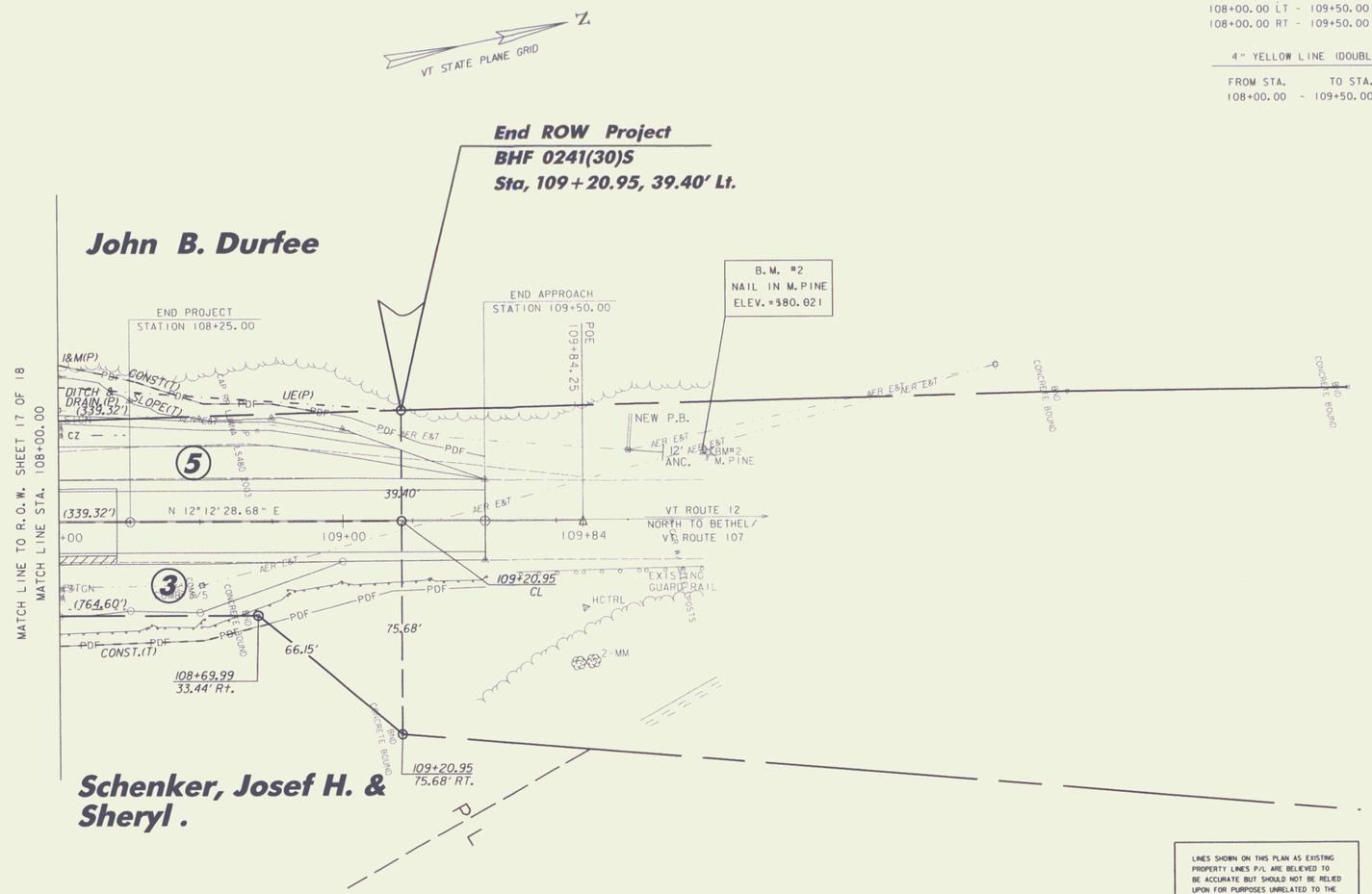
LAYOUT SHEET 2

PROJECT NAME: BETHEL
PROJECT NUMBER: BHF 0241(30)S

FILE NAME: 95c002\str\sc002bdr.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: U.STANLEY
PLOT DATE: 05-FEB-2010
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY
ROW SHEET 17 OF 18

4" WHITE LINE	
FROM STA.	TO STA.
108+00.00 LT -	109+50.00 LT
108+00.00 RT -	109+50.00 RT

4" YELLOW LINE (DOUBLE)	
FROM STA.	TO STA.
108+00.00 -	109+50.00



LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

SCALE 1" = 20'-0"
20 0 20

LAYOUT SHEET 3

PROJECT NAME: BETHEL

PROJECT NUMBER: BHF 024I(30)S

FILE NAME: 95c002\str\sc002bdr.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: U.STANLEY

PLOT DATE: 05-FEB-2010
DRAWN BY: G.ROKES
CHECKED BY: U.STANLEY
ROW SHEET 18 OF 18