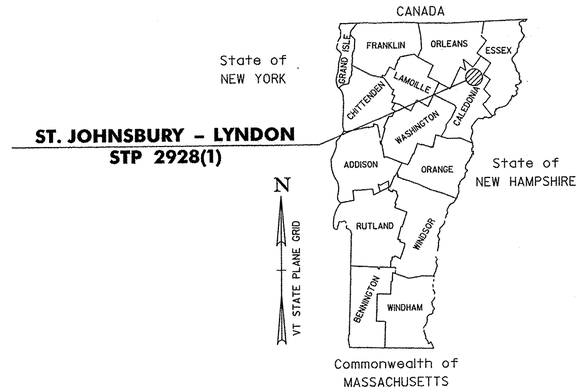
STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
TOWNS OF ST. JOHNSBURY - LYNDON
COUNTY OF CALEDONIA
U.S. ROUTE 5 & ST. JOHNSBURY STATE HIGHWAY
MINOR ARTERIAL



BEGINNING IN THE TOWN OF ST. JOHNSBURY ON U.S. ROUTE 5 AT STA. 151+85.28 (MM 2.876) AND EXTENDING NORTHERLY ALONG U.S. ROUTE 5 FOR A DISTANCE OF 39,290.48 FEET (7.441 MILES) TO LYNDON STA. 139+49.76 (MM 2.642). ALSO IN ST. JOHNSBURY, BEGINNING ON ST. JOHNSBURY STATE HIGHWAY AT STA. 0+00.00 (MM 0.000) AND EXTENDING NORTHERLY ALONG ST. JOHNSBURY STATE HIGHWAY A DISTANCE OF 5,496.48 FEET (MM 1.041) TO ST. JOHNSBURY STATION 54+96.48 (MM 1.041).

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY WITH A LEVELING AND WEARING COURSE, RECONSTRUCTION OF AN AT-GRADE RAILROAD CROSSING, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, VIDEO DETECTION CAMERAS, AND OTHER RELATED HIGHWAY ITEMS.

PROJECT DATA:	LENGTH (FEET)	LENGTH (MILES)
U.S. ROUTE 5		
ST. JOHNSBURY		
STA. 151+85.28 TO STA. 405+26.00	25,340.72	
MM 2.876 TO 7.675		4.799
LYNDON		
STA. 0+00.00 TO 139+49.76		
MM 0.000 TO 2.642	13,949.76	
ST. JOHNSBURY STATE HIGHWAY		2.642
ST. JOHNSBURY		
STA. 0+00.00 TO 54+96.48		
MM 0.000 TO 1.041	5,496.48	
		1.041
TOTAL LENGTH OF PROJECT:	44,786.96	8.482
TOTAL LENGTH OF ROADWAY:	44,786.96	8.482

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES, INC. – BERLIN, VT

RESIDENT ENGINEER: KEVIN MCCLURE

CONSTRUCTION BEGAN: APRIL 21, 2014

CONSTRUCTION COMPLETE: OCTOBER 1, 2014

RECORD PLANS BY: KEVIN MCCLURE & KEVIN KING

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

BY Kevin McClure RESIDENT ENGINEER

DATE 8-22-16

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found by contacting Vtrans Records Management.

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA

DESIGN LANE/DESIGN LIFE ESALS	2,457,000
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SUBSECTION 490.03(b)

QUALITY ASSURANCE PROGRAM: LEVEL 3

CONVENTIONAL SYMBOLS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARDRAIL
RAILROAD
SURVEY LINE
CULVERT
UTILITY POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS (SR SR SR)
TOP OF CUT
TOE OF SLOPE

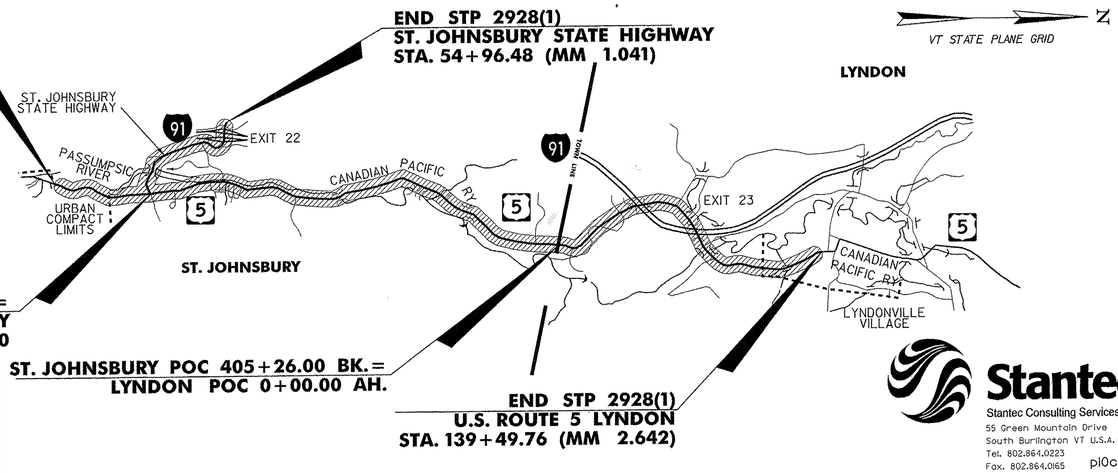
BEGIN STP 2928(1)
U.S. ROUTE 5 ST. JOHNSBURY
STA. 151+85.28 (MM 2.876)

U.S. ROUTE 5 P.O.T. STA 198+95.85 =
ST. JOHNSBURY STATE HIGHWAY
P.O.T. STA 0+00.00

ST. JOHNSBURY POC 405+26.00 BK. =
LYNDON POC 0+00.00 AH.

END STP 2928(1)
ST. JOHNSBURY STATE HIGHWAY
STA. 54+96.48 (MM 1.041)

END STP 2928(1)
U.S. ROUTE 5 LYNDON
STA. 139+49.76 (MM 2.642)



SURVEYED BY : VERMONT SURVEY & ENGINEERING
SURVEYED DATE : 2011

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83

RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS CONTRACTOR DURING THE COURSE OF THIS PAVING PROJECT. ANY REFERENCES TO OFFSETS ON THESE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON FOR ANY PURPOSES.

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 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS ON THESE PLANS ARE DRAWN "NOT TO SCALE".

Stantec
Stantec Consulting Services Inc.
55 Green Mountain Drive
South Burlington VT U.S.A. 05403
Tel. 802.864.0223
Fax. 802.864.0165
www.stantec.com

pl0c262.dgn
pl0c262ts.l

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED Kevin S. Marsh DATE 10/15/13

PROJECT MANAGER : MICHAEL FOWLER, P.E.

PROJECT NAME : ST. JOHNSBURY - LYNDON
PROJECT NUMBER : STP 2928(1)

SHEET 1 OF 133 SHEETS

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS & VAOT STANDARDS
3-4	PROJECT TYPICAL SHEETS 1-2
5-8	QUANTITY SHEETS 1-4
9-14	ITEM DETAIL SUMMARY SHEETS 1-6
15	DRIVE DETAIL SHEET
16	CULVERT & STRUCTURE INVENTORY SHEET
17-19	GUARDRAIL DETAIL SHEETS 1-3
20-21	BRIDGE DETAIL SHEETS 1-2
22-26	RAILROAD CROSSING DETAIL SHEETS 1-5
27	CENTERLINE RUMBLE STRIP DETAIL SHEET
28	BLANK
29-31	MISCELLANEOUS DETAIL SHEETS 1-3
32	DITCH CLEANING DETAIL SHEET
33-88	PROJECT LAYOUT SHEETS 1-56
89-121	TRAFFIC SIGN SUMMARY SHEETS 1-33
122-126	TRAFFIC SIGN DETAIL SHEETS 1-5
127-131	TRAFFIC SIGNAL SYSTEMS SHEETS 1-5
132-133	CONSTRUCTION APPROACH SIGNING SHEETS 1-2

STRUCTURES DETAIL SHEETS

SD-516.10 BRIDGE JOINT ASPHALTIC PLUG

VAOT STANDARDS

C-2A	10-14-05
C-2B	10-14-05
C-3A	03-10-08
C-3B	03-10-08
C-10	02-11-08
D-3	06-01-94
D-6	06-01-94
D-8	01-03-00
D-9	06-01-94
D-15	06-01-94
D-16	06-01-94
E-120	08-08-95
E-121	08-08-95
E-123	03-16-04
E-124	08-08-95
E-127	08-08-95
E-128A	08-08-95
E-128B	08-08-95
E-133	08-08-95
E-134	08-08-95
E-135	08-18-95
E-136A	08-08-95
E-138	05-30-03
E-140	08-30-96
E-141	09-20-95
E-142	09-20-95
E-143	06-15-04
E-144	03-29-99
E-145A	12-23-94
E-145B	12-23-94
E-150	05-01-04
E-151	05-01-04
E-152	05-01-04
E-153	05-01-04
E-154	05-01-04
E-155	05-01-04
E-171A	08-09-95
E-171B	08-09-95
E-175	06-08-09
E-190	06-30-03
E-191	02-01-99
E-192	10-12-00
E-193	08-18-95
G-1	01-03-00
G-1b	06-01-94
G-1d	01-03-00
G-19	11-15-02
J-3	08-07-95
RR-1	06-01-94
T-1	08-06-12
T-10	08-06-12
T-17	08-06-12
T-28	08-06-12
T-35	08-06-12
T-36	08-06-12
T-45	01-02-13

TRAFFIC DATA

U.S. ROUTE 5 & ST. JOHNSBURY STATE HIGHWAY

LOCATION	AADT		DHV		ESALS	
	2013	2023	2013	2023	2013-2023	2013-2033
U.S. ROUTE 5: BEGIN PROJECT TO ST. JOHNSBURY STATE HIGHWAY	7600	7600	850	850	713,000	1,620,000
U.S. ROUTE 5: ST. JOHNSBURY STATE HIGHWAY TO BREEZY HILL ROAD	6000	6000	680	680	816,000	1,884,000
U.S. ROUTE 5: BREEZY HILL ROAD TO WHEELOCK STREET	5000	5000	620	620	682,000	1,510,000
U.S. ROUTE 5: WHEELOCK STREET TO I-91 RAMPS A, B & E	8400	8400	1000	1000	1,636,000	3,956,000
U.S. ROUTE 5: I-91 RAMPS A, B & E TO I-91 RAMPS C & D	10,900	10,900	1200	1200	1,403,000	3,402,000
U.S. ROUTE 5: I-91 RAMPS C & D TO BACK CENTER ROAD	12,300	12,300	1300	1300	2,022,000	4,914,000
U.S. ROUTE 5: BACK CENTER ROAD TO END PROJECT	13,100	13,100	1400	1400	1,840,000	4,046,000
ST. JOHNSBURY STATE HIGHWAY: BEGIN PROJECT TO DEPOT HILL ROAD	3300	3300	390	390	797,000	1,741,000
ST. JOHNSBURY STATE HIGHWAY: DEPOT HILL ROAD TO END PROJECT	5000	5000	570	570	935,000	2,074,000

NOT TO SCALE

Stantec

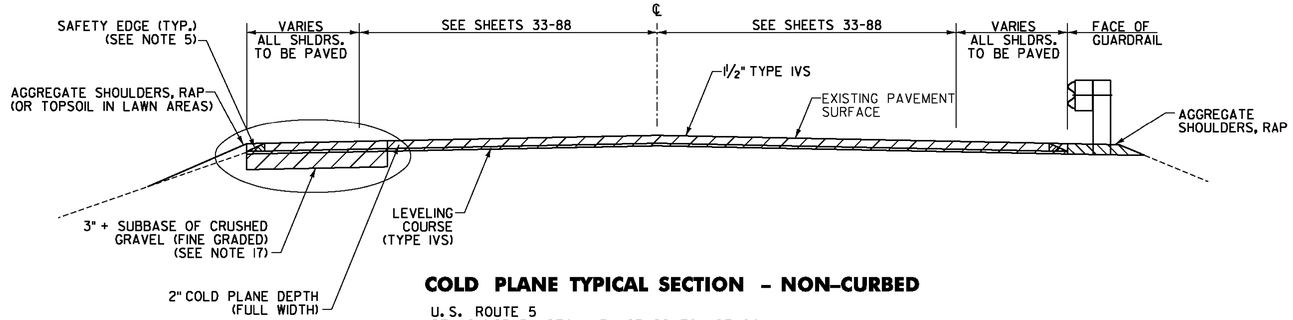
INDEX OF SHEETS & VAOT STANDARDS

PROJECT NAME: ST. JOHNSBURY-LYNDON

PROJECT NUMBER: STP 2928(I)

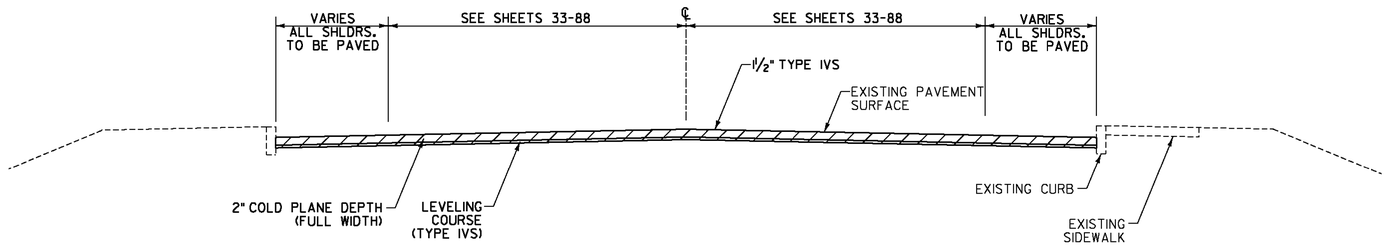
FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262ind.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 2 OF 133



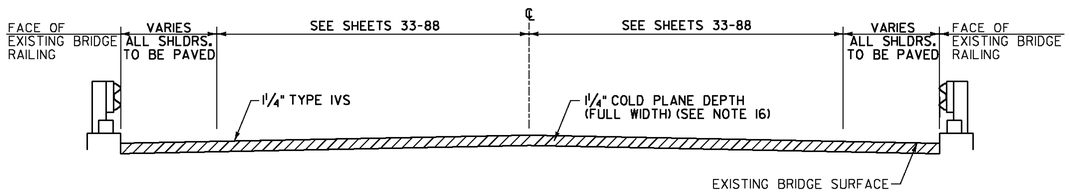
COLD PLANE TYPICAL SECTION - NON-CURBED

U.S. ROUTE 5
ST. JOHNSBURY STA. 151+85.28 TO 197+04.1
ST. JOHNSBURY STA. 207+56.9 TO 405+26.0
LYNDON STA. 0+00.0 TO 69+08.9
LYNDON STA. 90+38.0 TO 103+50.0
LYNDON STA. 110+11.0 TO 115+05.0
LYNDON STA. 120+45.0 TO 126+64.0
LYNDON STA. 132+30.0 TO 139+49.76



COLD PLANE TYPICAL SECTION - CURBED

U.S. ROUTE 5
ST. JOHNSBURY STA. 197+04.1 TO 207+56.9
U.S. ROUTE 5
LYNDON STA. 69+08.9 TO 90+38.0
LYNDON STA. 103+50.0 TO 110+11.0
LYNDON STA. 115+05.0 TO 120+45.0
LYNDON STA. 126+64.0 TO 132+30.0



COLD PLANE TYPICAL SECTION - BRIDGE

U.S. ROUTE 5
ST. JOHNSBURY BR#135 STA. 290+18.01 TO 294+76.63
ST. JOHNSBURY BR#137 STA. 351+91.27 TO 354+35.90
U.S. ROUTE 5
LYNDON BR#141 STA. 87+94.72 TO 89+67.22

ASPHALTIC PLUG JOINT LOCATIONS

(SEE STRUCTURES DETAIL SD-516.10)

U.S. ROUTE 5
~~ST. JOHNSBURY STA. 231+84, LT (DEPOT HILL RD. TH-85) (30 LF)~~
ST. JOHNSBURY BR#135 STA. 290+18.01 (65 LF)
ST. JOHNSBURY BR#135 STA. 294+76.63 (65 LF)
ST. JOHNSBURY BR#137 STA. 351+91.27 (~~84~~ LF) 85.5
ST. JOHNSBURY BR#137 STA. 354+35.90 (~~84~~ LF) 85.5
U.S. ROUTE 5 STA. 293+98.63 (61.5 LF)
LYNDON BR#141 STA. 87+94.72 (~~55~~ LF) 53.5
LYNDON BR#141 STA. 89+67.22 (~~55~~ LF) 53.5

LYNDON RR-XING STA. 94+75.00 (79 LF)
LYNDON RR-XING STA. 94+85.00 (77 LF)

NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2" LEVELING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. THE ST. JOHNSBURY STATE HIGHWAY IS PART OF THIS PROJECT. THE EXISTING PAVED SHOULDERS WILL BE EXCAVATED AN ADDITIONAL 2" AFTER THE INITIAL FULL WIDTH 2" COLD PLANING AND REPLACED WITH 2" TYPE IIIS. THEN LEVEL FULL WIDTH WITH 1/2 TYPE IVS AND THEN PAVE WITH 1 1/2" TYPE IVS.
3. GRASS GROWING ADJACENT TO PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
4. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ±1/4" (TOTAL THICKNESS EXCLUDING LEVELING)
5. EDGES OF NEW PAVEMENT WITHIN NON-CURBED SECTIONS SHALL INCLUDE A SAFETY EDGE AS DIRECTED BY THE ENGINEER. SEE DETAIL ON SHEET 4.
6. EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES. ALL COLD PLANED SURFACES SHALL HAVE AN APPLICATION RATE OF 0.08 GAL/SY OF EMULSIFIED ASPHALT. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL SUCCESSIVE PAVED SURFACES AT THE RATE OF 0.025 TO 0.040 GAL/SY. ALL APPLICATIONS WILL BE PAID UNDER ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H).
7. COLD PLANING TO BE COMPLETED ACCORDING TO TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. THE COLD PLANING AND PAVING SHALL MATCH THE EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AREAS BY THE USE OF A VERTICAL COLD PLANE JOINT. SEE DETAIL ON SHEET 4.
8. ALL RESIDENTIAL AND COMMERCIAL DRIVES, AND PULL-OUTS SHALL RECEIVE A 4 FOOT PAVED APRON, AND ALL FIELD DRIVES SHALL RECEIVE A 2 FOOT PAVED APRON, PAYABLE UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES) UNLESS OTHERWISE DIRECTED BY THE ENGINEER (FOR DETAILS, SEE SHEET 151). ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS WHETHER BY HAND OR MECHANICAL METHODS SHALL BE PAID AS ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
9. SIDEWALK RAMP DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME DETECTABLE WARNING PLATES FROM THE AGENCY'S APPROVED PRODUCTS LIST.
10. AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE ENGINEER.
11. QUANTITIES FOR ITEM 604.412, "REHAB DI, CB OR MH CLASS I", ITEM 604.415, "REHAB DI, CB OR MH CLASS II", ITEM 604.42, "CHANGING ELEVATION OF SEWER MANHOLES", AND ITEM 629.20, "ADJUST ELEVATION OF VALVE BOX" HAVE BEEN INCLUDED TO BE USED AS DIRECTED BY THE ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES CALLING FOR REHAB HAVE BEEN DISTRIBUTED BETWEEN ITEMS 604.412 AND 604.415 AS FOLLOWS: 80% 604.412, 20% 604.415 FOR ESTIMATING PURPOSES.
12. A 3' - 7" BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH SIX FOOT POSTS. IF THIS CANNOT BE OBTAINED THEN EIGHT FOOT POSTS SHALL BE USED. PAYMENT WILL BE MADE UNDER ITEM 621.20 STEEL BEAM GUARDRAIL, GALVANIZED AND ITEM 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS.
13. ITEM 402.13 AGGREGATE SHOULDERS, RAP SHALL BE USED TO BACK UP EDGES OF PAVEMENT, EXCEPT IN LAWN AREAS WHERE ITEM 651.35 TOPSOIL SHALL BE USED.
14. ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTION FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF ITEM 203.30 EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTION FLARE AREA. AN AMOUNT OF 25 CUBIC YARDS OF EARTH BORROW HAS BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION FLARE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE TO BE USED AS DIRECTED BY THE ENGINEER.
15. AN ESTIMATED QUANTITY OF ITEM 608.15, POWER GRADER RENTAL HAS BEEN INCLUDED FOR REMOVING BUILT UP, SAND, ETC. ADJACENT TO THE SHOULDERS IN NON GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER.
16. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VTRANS CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE ENGINEER TO BE AT FAULT, THE RECOMMENDED REPAIRS SHALL BE COMPLETED AT NO COST TO THE STATE.
17. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3 INCHES OR AS DIRECTED BY THE ENGINEER.

    EXCAVATION WILL BE PAID FOR AS ITEM 608.25 ALL PURPOSE EXCAVATOR, TYPE I.

    MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.40 SUBBASE, RAP AS DIRECTED BY THE ENGINEER.

    EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM PROJECT, AS DIRECTED BY THE ENGINEER.
18. ALL COLD PLANE SURFACES SHALL HAVE SURFACE PREPARATION BEFORE PAVING CONSISTING OF POTHOLE PATCHING AND PATCHING OF ALL LARGE CRACKS THAT ARE AT LEAST 1" IN WIDTH. THIS WILL BE PAID UNDER ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I) SEE DETAIL ON SHEET 4.

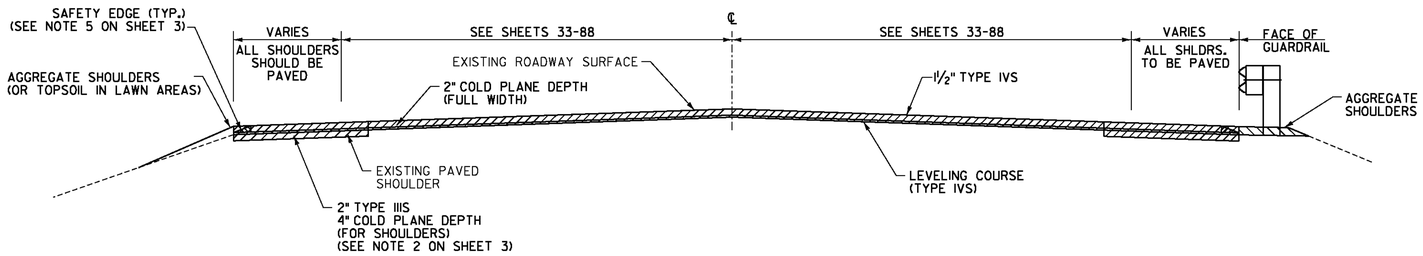
NOT TO SCALE

Stantec

PROJECT TYPICAL SHEET #1

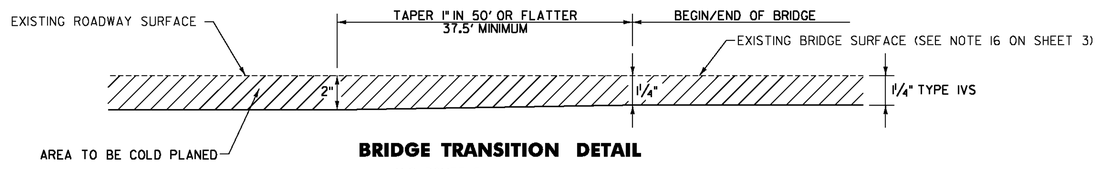
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(1)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262pts01.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 3 OF 133



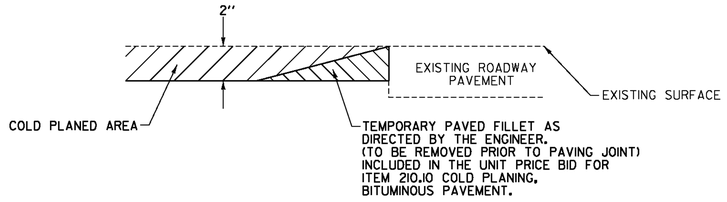
COLD PLANE TYPICAL SECTION – NON-CURBED WITH ADDITIONAL SHOULDER CONSTRUCTION

ST. JOHNSBURY STATE HIGHWAY
ST. JOHNSBURY STA. 0+00.00 TO 3+32.64
ST. JOHNSBURY STA. 7+89.22 TO 48+98.00
ST. JOHNSBURY STA. 50+84.64 TO 54+96.48



BRIDGE TRANSITION DETAIL

U.S. ROUTE 5
ST. JOHNSBURY BR#135 STA. 289+80.51 TO 290+18.01
ST. JOHNSBURY BR#135 STA. 294+76.63 TO 295+14.13
ST. JOHNSBURY BR#137 STA. 351+53.77 TO 351+91.27
ST. JOHNSBURY BR#137 STA. 354+35.90 TO 354+73.40
U.S. ROUTE 5
LYNDON BR#141 STA. 87+57.22 TO 87+94.72
LYNDON BR#141 STA. 89+67.22 TO 90+04.72



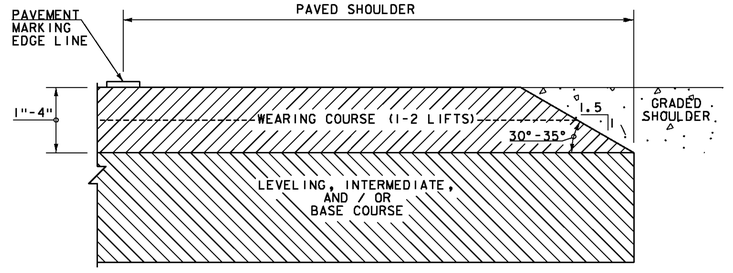
DETAIL AT VERTICAL COLD PLANE JOINTS (2" DEPTH)

NOTE: THIS DETAIL SHALL BE USED FOR THE SIDE ROADS AND OTHER LOCATIONS LISTED BELOW AS DIRECTED BY THE ENGINEER.

FULL ROADWAY WIDTH

U.S. ROUTE 5
ST. JOHNSBURY STA. 151+85.28 (BEGIN PROJECT)
ST. JOHNSBURY STA. 198+80, RT (HOSPITAL DRIVE)
ST. JOHNSBURY STA. 208+58, RT (MOUNTAIN VIEW DRIVE TH-98)
ST. JOHNSBURY STA. 224+28, RT (STETSON TERRACE TH-21)
ST. JOHNSBURY STA. 229+46, RT (HILL STREET TH-26)
ST. JOHNSBURY STA. 231+84, LT (DEPOT HILL ROAD TH-85)
ST. JOHNSBURY STA. 235+36, RT (ROBERTS BROOK LANE TH-34)
ST. JOHNSBURY STA. 238+23, RT (BREEZY HILL ROAD TH-6)
ST. JOHNSBURY STA. 242+65, RT (SANGER CIRCLE TH-50)
ST. JOHNSBURY STA. 256+85, RT (GREEN MOUNTAIN MALL ENT.)
ST. JOHNSBURY STA. 269+28, RT (MOUNT PISGAH ROAD TH-86)
ST. JOHNSBURY STA. 330+00, RT (PIERCE ROAD TH-15)
ST. JOHNSBURY STA. 340+03, LT (GORDON MILLS WAY TH-92)
ST. JOHNSBURY STA. 394+41, LT (INDUSTRIAL PARKWAY TH-13)
ST. JOHNSBURY STATE HIGHWAY
ST. JOHNSBURY STA. 12+68, LT (OLD CENTER ROAD TH-9)
ST. JOHNSBURY STA. 33+12, RT (DEPOT HILL ROAD TH-85)
ST. JOHNSBURY STA. 45+17, RT (LAPIERRE ROAD TH-32)
ST. JOHNSBURY STA. 47+23, LT (NB OFF RAMP A)
ST. JOHNSBURY STA. 47+35, RT (NB ON RAMP B)
ST. JOHNSBURY STA. 53+67, LT (SB ON RAMP D)
ST. JOHNSBURY STA. 53+68, RT (SB OFF RAMP C)
ST. JOHNSBURY STA. 54+96.48 (END PROJECT)

U.S. ROUTE 5
LYNDON STA. 8+08, RT (GREAT FALLS ROAD TH-67)
LYNDON STA. 44+20, LT (INDUSTRIAL PARK TH-78)
LYNDON STA. 60+20, RT (LEDGE ROAD TH-124)
LYNDON STA. 60+65, RT (MATTOCKS PARK TH-125)
LYNDON STA. 62+50, RT (POST OFFICE LANE TH-126)
LYNDON STA. 64+25, LT (YORK STREET TH-57)
LYNDON STA. 72+46, LT (SOUTH WHEELOCK ROAD TH-1)
LYNDON STA. 74+34, LT (SB OFF RAMP B)
LYNDON STA. 74+74, LT (SB ON RAMP A)
LYNDON STA. 76+33, LT (SB ON RAMP E)
LYNDON STA. 82+53, LT (NB ON RAMP D)
LYNDON STA. 821+57, RT (NB OFF RAMP C)
LYNDON STA. 84+70, LT (BACK CENTER ROAD TH-10)
LYNDON STA. 84+97, RT (CALKINS DRIVE TH-65)
LYNDON STA. 94+97, RT (RED VILLAGE ROAD TH-2)
LYNDON STA. 102+33, RT (PASSUMPSIC STREET TH-64)
LYNDON STA. 105+98, RT (PLEASANT STREET TH-62)
LYNDON STA. 111+64, RT (BOSTON STREET TH-63)
LYNDON STA. 124+04, RT (CHARLES STREET)
LYNDON STA. 139+49.76 (END PROJECT)

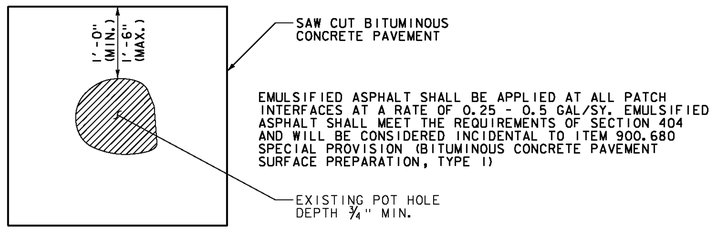


SAFETY EDGE DETAIL

NOT TO SCALE

NOTES:

1. LEVELING COURSE MAY INCLUDE THE "SAFETY EDGE" AT THE CONTRACTOR'S CHOICE.
2. THE EDGE OF PAVEMENT SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE 30 TO 35 DEGREE ANGLE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED.



TYPICAL – POT HOLE REPAIR

SEE NOTE 18 ON SHEET 3.

SEEDING FORMULA

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
38	32	CREEPING RED FESCUE	98	90
29	24	SPARTAN HARD FESCUE	95	85
15	12	AZAY SHEEP'S FESCUE	95	87
15	12	ANNUAL RYE GRASS	95	90
3	--	INERTS	--	--
100.0	80 LB/A			

NOTES

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

SEED ITEM 651.15: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER ITEM 651.18: 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 ITEM 651.20: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH ITEM 651.25: TO BE PLACED ON THE EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL ITEM 651.35: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

NOT TO SCALE

Stantec

PROJECT TYPICAL SHEET #2

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262pts02.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 4 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	NO FEDERAL/STATE	TRAINING	RAILROAD	BRIDGE	FULL C.E. ITEMS	TOTALS GRAND TOTAL	TOTALS FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
3						3		EACH	THINNING AND TRIMMING FOR SIGNS	201.31	-
30						30		CY	COMMON EXCAVATION	203.15	3.3
1600						1600		CY	EARTH BORROW	203.30	-
1						1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
189000						189000		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	1895
22000						22000		LF	MILLED RUMBLE STRIPS	213.10	246
15						15		TON	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.28	1.4
5200						5200		TON	SUBBASE, RAP	301.40	49.9
1350						1350		TON	AGGREGATE SHOULDERS, RAP	402.13	27
1						1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
22450						22450		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	223
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	-
1						1		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-
1						1		LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-
				445		445		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	7
				100		100		CF	RAPID SETTING CONCRETE REPAIR MATERIAL	580.17	EST.
300						300		LF	18" CPEP(SL)	601.2615	-
35						35		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	-
9						9		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	-
	16					16		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-
40						40		HR	POWER GRADER RENTAL	608.15	EST.
230						230		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
40						40		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.
460						460		HR	TRUCK RENTAL	608.37	EST.
30						30		HR	LOADER RENTAL, TYPE I	608.40	EST.
425						425		CY	STONE FILL, TYPE I	613.10	5
13						13		LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28	1
560						560		LF	TREATED TIMBER CURB	616.35	10
13						13		LF	REMOVING AND RESETTING CURB	616.40	1
13						13		LF	REMOVAL OF EXISTING CURB	616.41	1
35						35		TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	2.2
2						2		EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-
1						1		EACH	RELOCATE MAILBOX, MULTIPLE SUPPORT	617.12	-
50						50		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	4
80						80		SF	DETECTABLE WARNING SURFACE	618.30	6
106						106		EACH	YIELDING MARKER POSTS	619.17	EST.
14200						14200		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	20.5
175						175		LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	21
200						200		LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	8.75

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT
92821	SY	ST. JOHNSBURY U.S. ROUTE 5 MAINLINE
2356	SY	ST. JOHNSBURY U.S. ROUTE 5 BRIDGE
1947	SY	ST. JOHNSBURY U.S. ROUTE 5 SIDE ROADS
2033	SY	ST. JOHNSBURY U.S. ROUTE 5 PAVED PULL-OFFS
54962	SY	LYNDON U.S. ROUTE 5 MAINLINE
995	SY	LYNDON U.S. ROUTE 5 BRIDGE
2542	SY	LYNDON U.S. ROUTE 5 SIDE ROADS
28335	SY	ST. JOHNSBURY STATE HIGHWAY MAINLINE
1114	SY	ST. JOHNSBURY STATE HIGHWAY SIDE ROADS
1895	SY	ROUNDING
189000	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
12847	TON	U.S. ROUTE 5 MAINLINE (WEARING COURSE TYPE IVS)
245	TON	U.S. ROUTE 5 BRIDGE (WEARING COURSE TYPE IVS)
392	TON	U.S. ROUTE 5 SIDE ROADS (WEARING COURSE TYPE IVS)
178	TON	U.S. ROUTE 5 PULL-OFFS (WEARING COURSE TYPE IVS)
4399	TON	U.S. ROUTE 5 LEVELING (TYPE IVS)
2502	TON	ST. JOHNSBURY STATE HIGHWAY MAINLINE (WEARING
		COURSE TYPE IVS)
97	TON	ST. JOHNSBURY STATE HIGHWAY SIDE ROADS (WEARING
		COURSE TYPE IVS)
866	TON	ST. JOHNSBURY STATE HIGHWAY LEVELING (TYPE IVS)
701	TON	ST. JOHNSBURY STATE HIGHWAY SHOULDERS LT & RT
		(TYPE IIIS)
223	TON	ROUNDING
22450	TON	TOTAL
		STONE FILL, TYPE I
259	CY	DITCH CLEANING
161	CY	SLOPE EROSION PREVENTION
5	CY	ROUNDING
425	CY	TOTAL

Stantec

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: ...\Plot Files\p10c262qs01.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262qs01.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 5 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
				ROADWAY	NO FEDERAL/STATE	TRAINING	RAILROAD	BRIDGE	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
				50						50		LF	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	621.216	-			
				12						12		EACH	TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL	621.53	-			
				64						64		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-			
				14600						14600		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	15			
					20					20		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-			
				700						700		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.			
				6300						6300		HR	FLAGGERS	630.15	EST.			
									1	1		LS	FIELD OFFICE, ENGINEERS	631.10	-			
									1	1		LS	TESTING EQUIPMENT, CONCRETE	631.16	-			
									1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
									3000	3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-			
						520				520		HR	EMPLOYEE TRAINEESHIP	634.10	EST.			
				1						1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
				1						1		LS	TRAFFIC CONTROL	641.10	-			
				6						6		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
				30						30		LF	4 INCH WHITE LINE	646.20	3			
				28						28		LF	4 INCH YELLOW LINE	646.21	3			
				15						15		LF	24 INCH STOP BAR	646.26	1			
				4						4		EACH	LETTER OR SYMBOL	646.30	-			
				1						1		EACH	RAILROAD CROSSING SYMBOL	646.32	-			
													BEGIN OPTION AA					
				96200						96200		LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	968			
				96200						96200		LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	968			
													END OPTION AA					
													BEGIN OPTION BB					
				92700						92700		LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	1107			
				92700						92700		LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	1107			
													END OPTION BB					
													BEGIN OPTION CC					
				250						250		LF	DURABLE 6 INCH WHITE LINE, THERMOPLASTIC	646.422	7			
				250						250		LF	DURABLE 6 INCH WHITE LINE, POLYUREA	646.424	7			
													END OPTION CC					
													BEGIN OPTION DD					
				210						210		LF	DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC	646.432	7			
				210						210		LF	DURABLE 6 INCH YELLOW LINE, POLYUREA	646.434	7			
													END OPTION DD					
													BEGIN OPTION EE					
				1130						1130		LF	DURABLE 8 INCH WHITE LINE, THERMOPLASTIC	646.442	15			
				1130						1130		LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	15			
													END OPTION EE					

Stantec

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: ...\Plot Files\p10c262qs02.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262qs02.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 6 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
				ROADWAY	NO FEDERAL/STATE	TRAINING	RAILROAD	BRIDGE	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
													BEGIN OPTION FF					GEOTEXTILE UNDER STONE FILL
				1115						1115		LF	DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC	646.452	16	1170	SY	DITCH CLEANING
																551	SY	SLOPE EROSION PREVENTION
				1115						1115		LF	DURABLE 8 INCH YELLOW LINE, POLYUREA	646.454	16	29	SY	ROUNDING
													END OPTION FF			1750	SY	TOTAL
													BEGIN OPTION GG					
																		SEED
				875						875		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	13			
																33	LB	DITCH CLEANING
				875						875		LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	13	7	LB	SLOPE EROSION PREVENTION
																440	LB	TURF ESTABLISHMENT
													END OPTION GG			2	LB	LYNDON: PAVEMENT REMOVAL AREA
																8	LB	ROUNDING
													BEGIN OPTION HH					
																490	LB	TOTAL
				289						289		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-			
				289						289		EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	-			TEMPORARY EROSION MATTING
													END OPTION HH			1967	SY	DITCH CLEANING
																1600	SY	GUARDRAIL END SECTIONS
													BEGIN OPTION II			402	SY	SLOPE EROSION PREVENTION
																116	SY	LYNDON: PAVEMENT REMOVAL AREA
				250						250		LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	12	15	SY	ROUNDING
				250						250		LF	DURABLE CROSSWALK MARKING, POLYUREA	646.504	12	4100	SY	TOTAL
													END OPTION II					
													BEGIN OPTION JJ					
				3						3		EACH	DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC	646.512	-			
				3						3		EACH	DURABLE RAILROAD CROSSING SYMBOL, POLYUREA	646.514	-			
													END OPTION JJ					
				192400						192400		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	1882			
				185200						185200		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	2014			
				490						490		LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	4			
				410						410		LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	4			
				2260						2260		LF	TEMPORARY 8 INCH WHITE LINE, PAINT	646.642	30			
				2220						2220		LF	TEMPORARY 8 INCH YELLOW LINE, PAINT	646.652	22			
				1650						1650		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	26			
				442						442		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-			
				500						500		LF	TEMPORARY CROSSWALK MARKING, PAINT	646.702	24			
				6						6		EACH	TEMPORARY RAILROAD CROSSING SYMBOL, PAINT	646.712	-			
				5450						5450		EACH	LINE STRIPING TARGETS	646.76	52			
				66						66		LF	PAINTED CURB	646.81	1			
				1750						1750		SY	GEOTEXTILE UNDER STONE FILL	649.31	29			
				490						490		LB	SEED	651.15	8			
				1290						1290		LB	FERTILIZER	651.18	EST.			
				5						5		TON	AGRICULTURAL LIMESTONE	651.20	EST.			
				8						8		TON	HAY MULCH	651.25	EST.			
				185						185		CY	TOPSOIL	651.35	EST.			
				410						410		SY	GRUBBING MATERIAL	651.40	8			
				4100						4100		SY	TEMPORARY EROSION MATTING	653.20	15			

Stantec

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: ...\Plot Files\p10c262qs03.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262qs03.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 7 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 4

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	NO FEDERAL/STATE	TRAINING	RAILROAD	BRIDGE	FULL C.E. ITEMS	TOTALS GRAND TOTAL	TOTALS FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
1555						1555		SF	TRAFFIC SIGNS, TYPE A	675.20	1.14
545						545		LB	TUBULAR STEEL SIGN POST	675.33	8
3820						3820		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	10
6						6		EACH	FOUNDATION FOR TUBULAR STEEL POST	675.43	-
414						414		EACH	REMOVING SIGNS	675.50	-
33						33		EACH	ERECTING SALVAGED SIGNS	675.60	-
65						65		EACH	DELINEATOR WITH STEEL POST	676.10	1
58						58		EACH	REMOVAL OF EXISTING DELINEATOR	676.12	1
1						1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-
1						1		EACH	SPECIAL PROVISION (REMOVE AND REPLACE FLASHING BEACON, AERIAL MOUNTED)	900.620	
1						1		EACH	SPECIAL PROVISION (REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER AND CABINET)	900.620	-
2						2		EACH	SPECIAL PROVISION (SOIL BEARING SLIP BASE)(2 1/2")	900.620	-
1						1		EACH	SPECIAL PROVISION (VEHICLE PREEMPTION/VIDEO VEHICLE DETECTION SYSTEM)(US 5 @ ST. JAY ST HWY)	900.620	
1						1		EACH	SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM)(U.S. ROUTE 5 @ BACK CENTER ROAD)	900.620	
1						1		EACH	SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM)(U.S. ROUTE 5 @ GREEN MOUNTAIN MALL)	900.620	
			1			1		LS	SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM)(AARDOT 850-920X)	900.645	-
			1			1		LS	SPECIAL PROVISION (RECONSTRUCT RAIL-HIGHWAY CROSSING)(AARDOT 850-920X)	900.645	-
			1			1		LS	SPECIAL PROVISION (TRAFFIC CONTROL, RAIL-HIGHWAY CROSSING)(AARDOT 850-920X)	900.645	
1						1		LS	SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED)(U.S. ROUTE 5 @ GREEN MOUNTAIN MALL)	900.645	-
			1			1		LU	SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC)(N.A.B.I.)	900.650	-
5200						5200		SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	79
200						200		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680	EST.
22450						22450		TON	SPECIAL PROVISION (MATERIAL TRANSFER VEHICLE)	900.680	
1850						1850		CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-1H OR CRS-1H)	900.683	17.9

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (MATERIAL TRANSFER DEVICE)
12847	TON	U.S. ROUTE 5 MAINLINE (WEARING COURSE TYPE IVS)
245	TON	U.S. ROUTE 5 BRIDGE (WEARING COURSE TYPE IVS)
392	TON	U.S. ROUTE 5 SIDE ROADS (WEARING COURSE TYPE IVS)
178	TON	U.S. ROUTE 5 PULL-OFFS (WEARING COURSE TYPE IVS)
4399	TON	U.S. ROUTE 5 (LEVELING COURSE TYPE IVS)
2502	TON	ST. JOHNSBURY STATE HIGHWAY MAINLINE (WEARING COURSE TYPE IVS)
97	TON	ST. JOHNSBURY STATE HIGHWAY SIDE ROADS (WEARING COURSE TYPE IVS)
866	TON	ST. JOHNSBURY STATE HIGHWAY (LEVELING COURSE TYPE IVS)
701	TON	ST. JOHNSBURY STATE HIGHWAY SHOULDERS LT & RT (TYPE IIIS)
223	TON	ROUNDING
22450	TON	TOTAL

Stantec

PROJECT NAME:	ST. JOHNSBURY-LYNDON
PROJECT NUMBER:	STP 2928(I)
FILE NAME: ...\Plot Files\p10c262qs04.dgn	PLOT DATE: 10/17/2013
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: MCF	CHECKED BY: JLL
IPARM FILE: p10c262qs04.I	SHEET 8 OF 133

THIS SHEET NOT USED FOR RECORD PLANS

ITEM DETAIL SUMMARY SHEET 1

LOCATION			GUARDRAIL							MISCELLANEOUS											REMARKS
BEGIN MILE STA.	END MILE STA.	POS.	621.20 S.B. G.R. GALV. LF	621.205 S.B. G.R. GALV.W/ 8' POST LF	621.21 HD S.B. G.R. GALV. LF	621.216 HD S.B. G.R., GALV./ NESTED LF	621.53 TERMINAL CONN. FOR S.B. G.R. EACH	621.60 ANCHOR FOR S.B. RAIL EACH	621.80 REMOVAL & DISPOSAL OF GUARDRAIL LF	203.15 COMMON EXCAVATION CY	203.30 EARTH BORROW CY	301.28 SUBBASE OF CRUSHED GRAV, FINE GRADED TON	402.13 AGGREGATE SHOULDERS, RAP TON	601.2615 18" CPEP(SL) LF	604.412 REHAB DI, CB, OR MH, CLASS I EACH	604.415 REHAB DI, CB, OR MH, CLASS II EACH	604.42 CHAN ELEV. OF SEWER MH EACH	613.10 STONE FILL, TYPE I CY	616.28 C-I-P CONC. CURB, TYPE B LF	616.35 TREATED TIMBER CURB LF	
US ROUTE 5																					
ST. JOHNSBURY – LYNDON																					
151+85.28	139+49.76	LT&RT											1323		35	9	16				QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER, FOR STRUCTURE LOCATIONS, SEE SHEET 16. INCLUDES ST. JOHNSBURY STATE HIGHWAY.
ST. JOHNSBURY																					
151+85.28	405+26.00	LT&RT																259			SEE DITCH CLEANING DETAIL SHEET 32.
154+69	168+48	LT	1379					2	1350		50							27			INSTALL ANCHOR @ STA. 154+69 AND 168+48. REPAIR SLOPE EROSION AT 159+27 - 159+43 & 166+78 - 167+23. SEE DETAIL ON SHEET 29.
172+70	182+19.5	LT	931.5			25		2	937.5		50							11			INSTALL ANCHOR @ STA. 172+70 AND 182+18; SEE CULVERT SPAN DETAIL ON SHEET 17. SEE REDUCED POST SPACING DETAIL #1 ON SHEET 17. REPAIR SLOPE EROSION AT 175+72 - 175+97. SEE DETAIL ON SHEET 29.
180+21		RT																			INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
187+41.5	193+86	LT	654					2	650		50							25			INSTALL ANCHOR @ STA. 187+41.5 AND 193+86. REPAIR SLOPE EROSION AT 188+86 - 189+42. SEE DETAIL ON SHEET 29.
208+70	218+20.5	LT	984					2	950		50							76			INSTALL ANCHOR @ STA. 208+70 AND 218+20.5. SEE REDUCED POST SPACING DETAIL #2 ON SHEET 17 & #3 ON SHEET 18. REPAIR SLOPE EROSION AT 213+24 - 214+22, 214+75 - 214+89 & 216+58 - 217+17. SEE DETAIL ON SHEET 29.
214+50.5	215+33.5	RT	91.5					2	87.5		50			50							INSTALL ANCHOR @ STA. 214+50.5 AND 215+33.5; INSTALL 25' X 18" CPEP(SL) @ STA. 214+50.5 AND 215+33.5 - SEE DETAIL ON SHEET 17.
227+95	231+65	LT	382		41.25			1	387.5		25										INSTALL ANCHOR @ STA. 227+95, SEE REDUCED POST SPACING DETAIL #4 ON SHEET 18. SEE BRIDGE DETAILS ON SHEETS 20 & 21.
231+94	232+57	LT	37.5		41.25			1	75		25										INSTALL ANCHOR @ STA. 232+57. SEE BRIDGE DETAILS ON SHEET 20 & 21.
234+71	234+95	RT	29					2	25		50										INSTALL ANCHOR @ STA. 234+71 AND 234+95. ATTACH NEW RAIL TO EXISTING POST ON HEADWALL.
234+72	234+95.5	LT	29					2	25		50										INSTALL ANCHOR @ STA. 234+72 AND 234+95.5. ATTACH NEW RAIL TO EXISTING POST ON HEADWALL.
236+83		RT								4.4		4.2									CONSTRUCT SIDEWALK RAMP, TYPE 6.
237+96		RT								0.7		0.7							12.0		CONSTRUCT SIDEWALK LANDING AND DETECTABLE WARNING SURFACE.
238+54		RT								0.5		0.5									CONSTRUCT SIDEWALK LANDING AND DETECTABLE WARNING SURFACE.
242+53		RT								0.5		0.5									CONSTRUCT SIDEWALK LANDING AND DETECTABLE WARNING SURFACE.
242+75		RT								0.5		0.5									CONSTRUCT SIDEWALK LANDING AND DETECTABLE WARNING SURFACE.
247+02	251+44	LT	441.5					2	437.5		50										INSTALL ANCHOR @ STA. 247+02 AND STA. 251+44.
256+47		RT																			INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
257+20		RT																			INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
257+45		RT																			INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
263+72.5	283+69.5	LT	2019					2	2000		50										INSTALL ANCHOR @ STA. 263+72.5 AND 283+68.5. SEE REDUCED POST SPACING DETAIL #2 ON SHEET 17.
269+71	270+92.5	RT	129					2	125		50										INSTALL ANCHOR @ STA. 269+71 AND STA. 270+92.5.
288+61.5	289+78.5	LT	89.5				1	1	125		25										INSTALL ANCHOR @ STA. 288+61.5. CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 289+78.5. SEE SHEET 19.
289+74	290+50	RT	52				1	1	75		25										INSTALL ANCHOR @ STA. 289+74. CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 290+50. SEE SHEET 19.
294+42.5	295+19.5	LT	52				1	1	75		25			25							CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 294+42.5. SEE SHEET 19. INSTALL ANCHOR @ STA. 295+19.5; INSTALL 25' X 18" CPEP(SL) @ STA. 295+19.5 - SEE DETAIL ON SHEET 17.
295+14.5	296+80	RT	139.5				1	1	162.5		25										CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 295+14.5. SEE SHEET 19. INSTALL ANCHOR @ STA. 296+80.
SHEET 9 SUBTOTALS:			7440		82.5	25	4	26	7487.5	6.6	650	6.4	1323	75	35	9	16	398	12.0		

ITEM DETAIL SUMMARY SHEET #1

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262idss01.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 9 OF 133

THIS SHEET NOT USED FOR RECORD PLANS

ITEM DETAIL SUMMARY SHEET 2

LOCATION			MISCELLANEOUS														REMARKS
BEGIN MILE STA.	END MILE STA.	POS.	616.40 REMOVING & RESETTING CURB LF	616.41 REMOVAL OF EXISTING CURB LF	616.47 BIT. CONC. GUTTERS & TRAFF. ISL. TON	617.10 RELOCATE MAILBOX, SINGLE SUPPORT EACH	617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT EACH	618.10 PORTLAND CEMENT CONC., 5 INCH SY	618.30 DETECTABLE WARNING SURFACE SF	619.17 YIELDING MARKER POSTS EACH	629.20 ADJUST ELEV VALVE BOX EACH	649.31 GEOTEXTILE UNDER STONE FILL SY	651.40 GRUBBING MATERIAL SY	653.20 TEMPORARY EROSION MATTING SY	676.10 DELINEATOR WITH STEEL POST EACH	676.12 REMOVAL OF EXIST. DELINEATOR EA		
US ROUTE 5																		
ST. JOHNSBURY – LYNDON																		
151+85.28	139+49.76	LT&RT				2	1			106	20							QUANTITIES FOR USE AS DIRECTED BY THE ENGINEER, FOR STRUCTURE LOCATIONS, SEE SHEET 16. INCLUDES ST. JOHNSBURY STATE HIGHWAY.
ST. JOHNSBURY																		
151+85.28	405+26.00	LT&RT										1170		1967				SEE DITCH CLEANING DETAIL SHEET 32.
154+69	168+48	LT										94	68	118	2	2		INSTALL ANCHOR @ STA. 154+69 AND 168+48. REPAIR SLOPE EROSION AT 159+27 - 159+43 & 166+78 - 167+23. SEE DETAIL ON SHEET 29.
172+70	182+19.5	LT										39	28	78	2	1		INSTALL ANCHOR @ STA. 172+70 AND 182+18; SEE CULVERT SPAN DETAIL ON SHEET 17. SEE REDUCED POST SPACING DETAIL *1 ON SHEET 17. REPAIR SLOPE EROSION AT 175+72 - 175+97. SEE DETAIL ON SHEET 29.
180+21		RT			1.8													INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
187+41.5	193+86	LT										84	62	112	2	2		INSTALL ANCHOR @ STA. 187+41.5 AND 193+86. REPAIR SLOPE EROSION AT 188+86 - 189+42. SEE DETAIL ON SHEET 29.
208+70	218+20.5	LT										255	191	241	2	2		INSTALL ANCHOR @ STA. 208+70 AND 218+20.5. SEE REDUCED POST SPACING DETAIL *2 ON SHEET 17 & *3 ON SHEET 18. REPAIR SLOPE EROSION AT 213+24 - 214+22, 214+75 - 214+89 & 216+58 - 217+17. SEE DETAIL ON SHEET 29.
214+50.5	215+33.5	RT												50	2	2		INSTALL ANCHOR @ STA. 214+50.5 AND 215+33.5; INSTALL 25' X 18" CPEP(SL) @ STA. 214+50.5 AND 215+33.5 - SEE DETAIL ON SHEET 17.
227+95	231+65	LT												25	1	1		INSTALL ANCHOR @ STA. 227+95, SEE REDUCED POST SPACING DETAIL *4 ON SHEET 18. SEE BRIDGE DETAILS ON SHEETS 20 & 21.
231+94	232+57	LT												25	1	1		INSTALL ANCHOR @ STA. 232+57. SEE BRIDGE DETAILS ON SHEET 20 & 21.
234+71	234+95	RT												50	2	2		INSTALL ANCHOR @ STA. 234+71 AND 234+95. ATTACH NEW RAIL TO EXISTING POST ON HEADWALL.
234+72	234+95.5	LT												50	2	2		INSTALL ANCHOR @ STA. 234+72 AND 234+95.5. ATTACH NEW RAIL TO EXISTING POST ON HEADWALL.
236+83		RT						14	16.0									CONSTRUCT SIDEWALK RAMP, TYPE 6.
237+96		RT		12.0				2	8.0									CONSTRUCT SIDEWALK LANDING AND DETECTABLE WARNING SURFACE.
238+54		RT						2	6.0									CONSTRUCT SIDEWALK LANDING AND DETECTABLE WARNING SURFACE.
242+53		RT						2	6.0									CONSTRUCT SIDEWALK LANDING AND DETECTABLE WARNING SURFACE.
242+75		RT						2	6.0									CONSTRUCT SIDEWALK LANDING AND DETECTABLE WARNING SURFACE.
247+02	251+44	LT												50	2	1		INSTALL ANCHOR @ STA. 247+02 AND STA. 251+44.
256+47		RT			1.0													INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
257+20		RT			0.9													INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
257+45		RT			0.3													INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
263+72.5	283+69.5	LT												50	2	1		INSTALL ANCHOR @ STA. 263+72.5 AND 283+68.5. SEE REDUCED POST SPACING DETAIL *2 ON SHEET 17.
269+71	270+92.5	RT												50	2	2		INSTALL ANCHOR @ STA. 269+71 AND STA. 270+92.5.
288+61.5	289+78.5	LT												25	1	1		INSTALL ANCHOR @ STA. 288+61.5. CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 289+78.5. SEE SHEET 19.
289+74	290+50	RT												25	1	1		INSTALL ANCHOR @ STA. 289+74. CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 290+50. SEE SHEET 19.
294+42.5	295+19.5	LT												25	1			CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 294+42.5. SEE SHEET 19. INSTALL ANCHOR @ STA. 295+19.5; INSTALL 25' X 18" CPEP(SL) @ STA. 295+19.5 - SEE DETAIL ON SHEET 17.
295+14.5	296+80	RT												25	1	1		CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 295+14.5. SEE SHEET 19. INSTALL ANCHOR @ STA. 296+80.
SHEET 10 SUBTOTALS:				12.0	4.0	2	1	22	42	106	20	1642	349	2966	26	22		

ITEM DETAIL SUMMARY SHEET #2

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262idss02.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 10 OF 133

ITEM DETAIL SUMMARY SHEET 3

LOCATION			GUARDRAIL							MISCELLANEOUS											REMARKS
BEGIN MILE STA.	END MILE STA.	POS.	621.20 S.B. G.R. GALV. LF	621.205 S.B. G.R. GALV.W/ 8' POST LF	621.21 HD S.B. G.R. GALV. LF	621.216 HD S.B. G.R., GALV./ NESTED LF	621.53 TERMINAL CONN. FOR S.B. G.R. EACH	621.60 ANCHOR FOR S.B. RAIL EACH	621.80 REMOVAL & DISPOSAL OF GUARDRAIL LF	203.15 COMMON EXCAVATION CY	203.30 EARTH BORROW CY	301.28 SUBBASE OF CRUSHED GRAV, FINE GRADED TON	402.13 AGGREGATE SHOULDERS, RAP TON	601.2615 18" CPEP(SL) LF	604.412 REHAB DI, CB, OR MH, CLASS I EACH	604.415 REHAB DI, CB, OR MH, CLASS II EACH	604.42 CHAN ELEV. OF SEWER MH EACH	613.10 STONE FILL, TYPE I CY	616.28 C-I-P CONC. CURB, TYPE B LF	616.35 TREATED TIMBER CURB LF	
US ROUTE 5																					
ST. JOHNSBURY																					
320+04	329+73.5	RT	967		41.25			1	987.5		25							6			INSTALL ANCHOR @ STA. 320+04. SEE REDUCED POST SPACING DETAIL #5 ON SHEET 18. SEE BRIDGE DETAIL ON SHEET 20. REPAIR SLOPE EROSION AT 324+27 - 324+40. SEE DETAIL ON SHEET 29.
330+01.5	333+10	RT	274.5		67.5			1	325		25							7			INSTALL ANCHOR @ STA. 333+07.5. SEE BRIDGE DETAILS ON SHEETS 20 & 21. REPAIR SLOPE EROSION AT 332+21 - 332+36. SEE DETAIL ON SHEET 29.
331+78	332+78	LT	104					2	100		50			50							INSTALL ANCHOR @ STA. 331+78 AND 332+78; INSTALL 25' X 18" CPEP(SL) @ STA. 331+78.0 AND 332+78.0 - SEE DETAIL ON SHEET 17.
335+32	339+88	RT	466.5					2	462.5		50										INSTALL ANCHOR @ STA. 335+32 AND 339+88.
336+94	339+35	LT	241.5					2	237.5		50			25							INSTALL ANCHOR @ STA. 336+94 & 339+35; INSTALL 25'X18"CPEP(SL) @ STA. 336+94.0 SEE DETAIL ON SHEET 17.
340+36	345+57	RT	529					2	525		50										INSTALL ANCHOR @ STA. 340+36 AND 345+57.
348+17.5	352+30	RT	389.5				1	1	412.5		25									407	INSTALL ANCHOR @ STA. 348+17.5. CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 352+30. SEE SHEET 19. INSTALL TREATED TIMBER CURB STA. 348+23 TO 352+30.
348+61	351+50	LT	264.5				1	1	287.5		25										INSTALL ANCHOR @ STA. 348+61. CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 351+50. SEE SHEET 19.
351+49		LT																			INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
353+98	356+96	LT	277				1	1	300		25										CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 354+23. SEE SHEET 19. INSTALL ANCHOR @ STA. 356+96.
354+77	357+69	RT	264.5				1	1	287.5		25										CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 355+02. SEE SHEET 19. INSTALL ANCHOR @ STA. 357+69.
359+86	362+88	RT	304					2	300		50										INSTALL ANCHOR @ STA. 359+84.5 AND 362+86.5.
360+09	361+56	LT		154				2	144		50			25							INSTALL ANCHOR @ STA. 360+09 & 361+56; INSTALL 25'X18"CPEP(SL) @ STA. 360+09.0 SEE DETAIL ON SHEET 17.
367+66.5	373+32	RT	579					2	575		50			25							INSTALL ANCHOR @ STA. 367+66.5 & 373+32; INSTALL 25'X18"CPEP(SL) @ STA. 373+32 SEE DETAIL ON SHEET 17.
LYNDON																					
15+87	16+07	RT																9			REPAIR SLOPE EROSION AT 15+87 - 16+07. SEE DETAIL ON SHEET 29.
16+08	17+46.5	RT	141.5					2	137.5		50			50							INSTALL ANCHOR @ STA. 16+08 AND 17+46.5; INSTALL 25'X18" CPEP(SL) @ STA. 16+08.0 AND 17+46.5 - SEE DETAIL ON SHEET 17.
16+47.5	17+85.5	LT	141.5					2	137.5		50			25							INSTALL ANCHOR @ STA. 16+48 AND 17+85.5; INSTALL 25'X18" CPEP(SL) @ STA. 16+48.0 SEE DETAIL ON SHEET 17.
20+86.5	22+46	LT	166.5					2	162.5		50										INSTALL ANCHOR @ STA. 20+86.5 AND 22+46.
21+41	23+01	RT	166.5					2	162.5		50										INSTALL ANCHOR @ STA. 21+41 AND 23+01.
45+29	48+64	LT	384					2	366		50			25							INSTALL ANCHOR @ STA. 45+31.5 AND 48+61. SEE REDUCED POST SPACING DETAILS #2 ON SHEET 17 AND DETAIL #6 ON SHEET 18. INSTALL 25'X18" CPEP(SL) @ STA. 45+31.5 - SEE DETAIL ON SHEET 17.
65+05	67+49	LT																			INSTALL BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
67+49	68+88	LT																			INSTALL BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
82+14		RT								1.1		1.1									CONSTRUCT SIDEWALK RAMP, TYPE 1.
82+71		RT								1.4		1.4									CONSTRUCT SIDEWALK RAMP, TYPE 1.
84+65		RT								1.2		1.2									CONSTRUCT SIDEWALK RAMP, TYPE 1.
85+22		RT								1.9		1.9									CONSTRUCT SIDEWALK RAMP, TYPE 1.
87+95		LT																			INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
90+12	92+90	LT								12.9											EXCAVATE EXISTING PAVEMENT, TOPSOIL, SEED, FERTILIZER, LIMESTONE AND TEMPORARY EROSION MATTING PER NOTE 4 ON SHEET 73 AND NOTE 5 ON SHEET 74.
SHEET 11 SUBTOTALS:			5661	154	108.75		4	30	5910	18.5	750	5.6		225				22		407	

ITEM DETAIL SUMMARY SHEET #3

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262idss03.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 11 OF 133

ITEM DETAIL SUMMARY SHEET 4

LOCATION			MISCELLANEOUS															REMARKS
BEGIN MILE STA.	END MILE STA.	POS.	616.40 REMOVING & RESETTING CURB LF	616.41 REMOVAL OF EXISTING CURB LF	616.47 BIT. CONC. GUTTERS & TRAFF. ISL. TON	617.10 RELOCATE MAILBOX, SINGLE SUPPORT EACH	617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT EACH	618.10 PORTLAND CEMENT CONC., 5 INCH SY	618.30 DETECTABLE WARNING SURFACE SF	619.17 YIELDING MARKER POSTS EACH	629.20 ADJUST ELEV VALVE BOX EACH	649.31 GEOTEXTILE UNDER STONE FILL SY	651.40 GRUBBING MATERIAL SY	653.20 TEMPORARY EROSION MATTING SY	676.10 DELINEATOR WITH STEEL POST EACH	676.12 REMOVAL OF EXIST. DELINEATOR EA			
US ROUTE 5																		
ST. JOHNSBURY																		
320+04	329+73.5	RT										22	14	39	1	1		INSTALL ANCHOR @ STA. 320+04. SEE REDUCED POST SPACING DETAIL #5 ON SHEET 18. SEE BRIDGE DETAIL ON SHEET 20. REPAIR SLOPE EROSION AT 324+27 - 324+40. SEE DETAIL ON SHEET 29.
330+01.5	333+10	RT										25	17	42	1			INSTALL ANCHOR @ STA. 333+07.5. SEE BRIDGE DETAILS ON SHEETS 20 & 21. REPAIR SLOPE EROSION AT 332+21 - 332+36. SEE DETAIL ON SHEET 29.
331+78	332+78	LT												50	2	2		INSTALL ANCHOR @ STA. 331+78 AND 332+78; INSTALL 25' X 18" CPEP(SL) @ STA. 331+78.0 AND 332+78.0 - SEE DETAIL ON SHEET 17.
335+32	339+88	RT												50	2	2		INSTALL ANCHOR @ STA. 335+32 AND 339+88.
336+94	339+35	LT												50	2	2		INSTALL ANCHOR @ STA. 336+94 & 339+35; INSTALL 25'X18"CPEP(SL) @ STA. 336+94.0 SEE DETAIL ON SHEET 17.
340+36	345+57	RT												50	2	2		INSTALL ANCHOR @ STA. 340+36 AND 345+57.
348+17.5	352+30	RT												25	1	1		INSTALL ANCHOR @ STA. 348+17.5. CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 352+30. SEE SHEET 19. INSTALL TREATED TIMBER CURB STA. 348+23 TO 352+30.
348+61	351+50	LT												25	1			INSTALL ANCHOR @ STA. 348+61. CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 351+50. SEE SHEET 19.
351+49		LT			0.2													INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
353+98	356+96	LT												25	1	1		CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 354+23. SEE SHEET 19. INSTALL ANCHOR @ STA. 356+96.
354+77	357+69	RT												25	1	1		CONNECT GUARDRAIL TO EXISTING BRIDGE POST @ STA. 355+02. SEE SHEET 19. INSTALL ANCHOR @ STA. 357+69.
359+86	362+88	RT												50	2	2		INSTALL ANCHOR @ STA. 359+84.5 AND 362+86.5.
360+09	361+56	LT												50	2	2		INSTALL ANCHOR @ STA. 360+09 & 361+56; INSTALL 25'X18"CPEP(SL) @ STA. 360+09.0 SEE DETAIL ON SHEET 17.
367+66.5	373+32	RT												50	2	2		INSTALL ANCHOR @ STA. 367+66.5 & 373+32; INSTALL 25'X18"CPEP(SL) @ STA. 373+32 SEE DETAIL ON SHEET 17.
	LYNDON																	
15+87	16+07	RT										32	22	22				REPAIR SLOPE EROSION AT 15+87 - 16+07. SEE DETAIL ON SHEET 29.
16+08	17+46.5	RT												50	2	2		INSTALL ANCHOR @ STA. 16+08 AND 17+46.5; INSTALL 25'X18" CPEP(SL) @ STA. 16+08.0 AND 17+46.5 - SEE DETAIL ON SHEET 17.
16+47.5	17+85.5	LT												50	2	2		INSTALL ANCHOR @ STA. 16+48 AND 17+85.5; INSTALL 25'X18" CPEP(SL) @ STA. 16+48.0 SEE DETAIL ON SHEET 17.
20+86.5	22+46	LT												50	2	2		INSTALL ANCHOR @ STA. 20+86.5 AND 22+46.
21+41	23+01	RT												50	2	2		INSTALL ANCHOR @ STA. 21+41 AND 23+01.
45+29	48+64	LT												50	2	1		INSTALL ANCHOR @ STA. 45+31.5 AND 48+61. SEE REDUCED POST SPACING DETAILS #2 ON SHEET 17 AND DETAIL #6 ON SHEET 18. INSTALL 25'X18" CPEP(SL) @ STA. 45+31.5 - SEE DETAIL ON SHEET 17.
65+05	67+49	LT			15.8													INSTALL BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
67+49	68+88	LT			12.6													INSTALL BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
82+14		RT						4	6									CONSTRUCT SIDEWALK RAMP, TYPE 1.
82+71		RT						5	6									CONSTRUCT SIDEWALK RAMP, TYPE 1.
84+65		RT						4	6									CONSTRUCT SIDEWALK RAMP, TYPE 1.
85+22		RT						6	6									CONSTRUCT SIDEWALK RAMP, TYPE 1.
87+95		LT			0.2													INSTALL PERPENDICULAR BITUMINOUS GUTTER. SEE DETAIL ON SHEET 31.
90+12	92+90	LT												116				EXCAVATE EXISTING PAVEMENT, TOPSOIL, SEED, FERTILIZER, LIMESTONE AND TEMPORARY EROSION MATTING PER NOTE 4 ON SHEET 73 AND NOTE 5 ON SHEET 74.
SHEET 12 SUBTOTALS:					28.8			19	24			79	53	919	30	27		

ITEM DETAIL SUMMARY SHEET #4

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262idss04.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 12 OF 133

ITEM DETAIL SUMMARY SHEET 5

LOCATION			GUARDRAIL							MISCELLANEOUS											REMARKS
BEGIN MILE STA.	END MILE STA.	POS.	621.20 S.B. G.R. GALV. LF	621.205 S.B. G.R. GALV.W/ 8' POST LF	621.21 HD S.B. G.R. GALV. LF	621.216 HD S.B. G.R., GALV./ NESTED LF	621.53 TERMINAL CONN. FOR S.B. G.R. EACH	621.60 ANCHOR FOR S.B. RAIL EACH	621.80 REMOVAL & DISPOSAL OF GUARDRAIL LF	203.15 COMMON EXCAVATION CY	203.30 EARTH BORROW CY	301.28 SUBBASE OF CRUSHED GRAV, FINE GRADED TON	402.13 AGGREGATE SHOULDERS, RAP TON	601.2615 18" CPEP(SL) LF	604.412 REHAB DI, CB, OR MH, CLASS I EACH	604.415 REHAB DI, CB, OR MH, CLASS II EACH	604.42 CHAN ELEV. OF SEWER MH EACH	613.10 STONE FILL, TYPE I CY	616.28 C-I-P CONC. CURB, TYPE B LF	616.35 TREATED TIMBER CURB LF	
US ROUTE 5																					
LYNDON																					
90+38		RT								1.6		1.6									CONSTRUCT SIDEWALK RAMP, TYPE 1.
124+17.5	125+19	LT	79			25		2	100		50										INSTALL ANCHOR @ STA. 124+18 AND 125+19; SEE CULVERT SPAN DETAIL ON SHEET 17.
ST. JOHNSBURY STATE HIGHWAY																					
ST. JOHNSBURY																					
2+18	3+81	RT	139.5				1	1	162.5		25									63	INSTALL ANCHOR @ STA. 2+18. CONNECT GUARDRAIL TO PERMANENT JERSEY BARRIER @ STA. 3+81. REFER TO SHEET 19. INSTALL TREATED TIMBER CURB STA. 3+18 TO 3+81.
2+45	3+94.5	LT	127				1	1	150		25									80	INSTALL ANCHOR @ STA. 2+45. CONNECT GUARDRAIL TO PERMANENT JERSEY BARRIER @ STA. 3+94.5 REFER TO SHEET 19. INSTALL TREATED TIMBER CURB STA. 3+14.5 TO 3+94.5.
8+08	9+71	RT	139.5				1	1	162.5		25										CONNECT GUARDRAIL TO PERMANENT JERSEY BARRIER @ STA. 8+08. SEE SHEET 19. INSTALL ANCHOR @ STA. 9+71.
8+24.5	10+22.5	LT	177				1	1	200		25										CONNECT GUARDRAIL TO PERMANENT JERSEY BARRIER @ STA. 8+24.5. SEE SHEET 19. INSTALL ANCHOR @ STA. 10+22.5.
22+09.5	26+16.5	RT	416.5					2	412.5		50										INSTALL ANCHOR @ STA. 22+09.5 AND 26+16.5
SHEET 9 SUBTOTALS:			7440		82.5		4	26	7487.5	6.6	650	6.4	1323	75	35	9	16	398	12		
SHEET 11 SUBTOTALS:			5661	154	108.75	25	4	30	5910	18.5	750	5.6		225				22		407	
SHEET 13 SUBTOTALS:			1078.5			25	4	8	1187.5	1.6	200	1.6								143	
SUBTOTALS:			14179.5	154	191.25	50	12	64	14585	26.7	1600	13.6	1323	300	35	9	16	420	12	550	
ROUNDING			20.5	21	8.75	-	-	-	15	3.3	-	1.4	27	-	-	-	-	5	1	10	
TOTALS			14200	175	200	50	12	64	14600	30	1600	15	1350	300	35	9	16	425	13	560	

ITEM DETAIL SUMMARY SHEET #5

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262idss05.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 13 OF 133

ITEM DETAIL SUMMARY SHEET 6

LOCATION			MISCELLANEOUS															REMARKS
BEGIN MILE STA.	END MILE STA.	POS.	616.40 REMOVING & RESETTING CURB LF	616.41 REMOVAL OF EXISTING CURB LF	616.47 BIT. CONC. GUTTERS & TRAFF. ISL. TON	617.10 RELOCATE MAILBOX, SINGLE SUPPORT EACH	617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT EACH	618.10 PORTLAND CEMENT CONC., 5 INCH SY	618.30 DETECTABLE WARNING SURFACE SF	619.17 YIELDING MARKER POSTS EACH	629.20 ADJUST ELEV VALVE BOX EACH	649.31 GEOTEXTILE UNDER STONE FILL SY	651.40 GRUBBING MATERIAL SY	653.20 TEMPORARY EROSION MATTING SY	676.10 DELINEATOR WITH STEEL POST EACH	676.12 REMOVAL OF EXIST. DELINEATOR EA			
US ROTUE 5																		
LYNDON																		
90+38		RT	12					5	8									CONSTRUCT SIDEWALK RAMP, TYPE 1.
124+17.5	125+19	LT												50	2	2		INSTALL ANCHOR @ STA. 124+18 AND 125+19; SEE CULVERT SPAN DETAIL ON SHEET 17.
ST. JOHNSBURY STATE HIGHWAY																		
ST. JOHNSBURY																		
2+18	3+81	RT												25	1	1		INSTALL ANCHOR @ STA. 2+18. CONNECT GUARDRAIL TO PERMANENT JERSEY BARRIER @ STA. 3+81. REFER TO SHEET 19. INSTALL TREATED TIMBER CURB STA. 3+18 TO 3+81.
2+45	3+94.5	LT												25	1	1		INSTALL ANCHOR @ STA. 2+45. CONNECT GUARDRAIL TO PERMANENT JERSEY BARRIER @ STA. 3+94.5 REFER TO SHEET 19. INSTALL TREATED TIMBER CURB STA. 3+14.5 TO 3+94.5.
8+08	9+71	RT												25	1	1		CONNECT GUARDRAIL TO PERMANENT JERSEY BARRIER @ STA. 8+08. SEE SHEET 19. INSTALL ANCHOR @ STA. 9+71.
8+24.5	10+22.5	LT												25	1	1		CONNECT GUARDRAIL TO PERMANENT JERSEY BARRIER @ STA. 8+24.5. SEE SHEET 19. INSTALL ANCHOR @ STA. 10+22.5.
22+09.5	26+16.5	RT												50	2	2		INSTALL ANCHOR @ STA. 22+09.5 AND 26+16.5
SHEET 10 SUBTOTALS:				12	4.0	2	1	22	42	106	20	1642	349	2966	26	22		
SHEET 12 SUBTOTALS:					28.8			19	24			79	53	919	30	27		
SHEET 14 SUBTOTALS:			12					5	8					200	8	8		
SUBTOTALS:			12	12	32.8	2	1	46	74	106	20	1721	402	4085	64	57		
ROUNDING			1	1	2.2	-	-	4	6	-	-	29	8	15	1	1		
TOTALS			13	13	35	2	1	50	80	106	20	1750	410	4100	65	58		

ITEM DETAIL SUMMARY SHEET #6

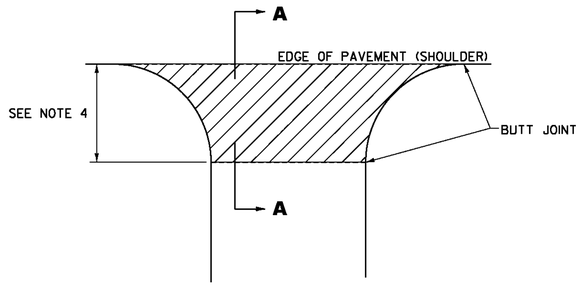
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262idss06.i

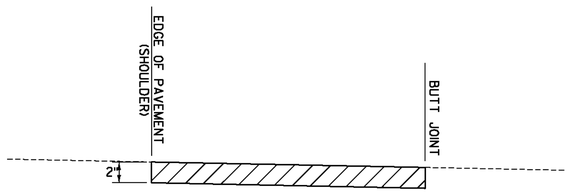
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 14 OF 133

STATION	POSITION	QUANTITY (SY)
U.S. ROUTE 5		
ST. JOHNSBURY		
153+06	LT	107
153+87	RT	178
159+92	RT	26
160+85	RT	22
162+93	RT	22
167+50	RT	35
170+20	LT	35
172+39	RT	13
178+25	RT	29
179+68	RT	18
180+60	RT	35
182+30	RT	35
184+12	RT	27
186+15	RT	37
194+30	LT	28
197+60	LT	18
199+93	RT	19
201+26	RT	24
201+95	LT	32
202+60	RT	12
204+56	LT	34
204+89	RT	21
205+55	LT	24
206+44	RT	23
206+78	LT	14
207+79	LT	18
210+58	RT	45
213+84	RT	22
214+40	RT	8
217+02	RT	23
220+20	RT	25
221+04	RT	16
222+61	RT	31
223+51	RT	8
225+36	RT	6
226+39	RT	11
227+26	RT	16
228+45	RT	8
230+01	RT	6
230+58	RT	9
231+15	RT	7
232+25	RT	9
232+98	LT	37
233+15	RT	8
234+02	LT	14
234+42	RT	27
236+27	LT	56
237+50	LT	47
238+29	LT	15
239+35	LT	24
239+93	LT	18
241+00	LT	11
242+43	LT	109
244+42	LT	59
244+85	RT	18
245+80	LT	55
246+44	RT	23
247+20	RT	23
248+05	RT	34
249+39	RT	24
253+45	LT	18
256+19	LT	12
257+11	LT	7
257+80	LT	7
260+54	LT	14
261+48	LT	10
265+92	RT	13
271+16	RT	19
271+88	RT	45
278+46	RT	48
288+97	RT	57
295+88	LT	59
297+65	RT	25
299+90	RT	23
301+32	RT	35
316+60	LT	28
317+71	RT	22
319+88	RT	18
327+17	LT	8
SUBTOTAL		2206

STATION	POSITION	QUANTITY (SY)
U.S. ROUTE 5		
ST. JOHNSBURY		
336+60	LT	25
340+10	RT	28
346+36	RT	15
347+37	LT	16
347+56	RT	47
357+14	LT	10
362+43	LT	8
363+85	LT	4
364+28	RT	17
366+88	RT	13
381+24	LT	37
386+80	RT	46
394+48	RT	17
395+30	LT	25
395+70	RT	22
396+72	RT	18
397+56	LT	36
402+43	RT	38
405+12	RT	14
LYNDON		
0+57	RT	16
0+63	LT	26
2+74	RT	128
2+91	LT	27
5+78	RT	26
10+09	RT	57
11+90	RT	32
20+60	RT	26
26+66	RT	14
30+46	LT	8
31+12	LT	14
34+37	RT	27
37+18	LT	24
39+36	LT	45
48+96	LT	186
53+36	RT	9
54+18	LT	12
54+44	LT	9
60+72	LT	25
61+26	LT	11
62+54	LT	97
65+08	RT	31
65+28	LT	9
65+87	LT	38
66+36	RT	15
66+49	LT	10
66+97	LT	11
67+46	RT	11
68+40	RT	9
69+39	LT	8
69+78	LT	8
70+22	LT	11
70+32	RT	24
70+69	LT	10
71+32	LT	6
71+47	RT	11
72+94	RT	13
90+60	RT	7
91+42	RT	8
92+38	RT	9
93+22	LT	28
93+70	RT	13
96+81	LT	23
97+60	RT	25
99+04	RT	8
99+83	RT	22
100+68	RT	24
101+66	RT	29
104+21	LT	16
104+38	RT	28
104+95	LT	12
106+92	RT	14
107+49	LT	17
107+81	LT	8
108+00	RT	10
108+77	RT	8
110+52	RT	15
113+29	RT	15
113+74	LT	18
SUBTOTAL		1837

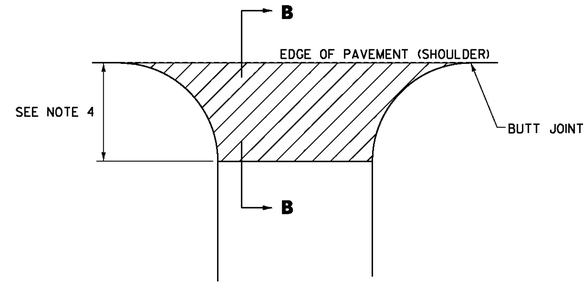


PLAN

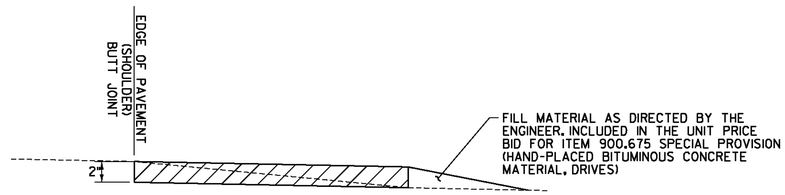


SECTION A–A

HANDWORK DETAILS FOR PAVED DRIVES



PLAN



SECTION B–B

HANDWORK DETAILS FOR GRAVEL DRIVES

STATION	POSITION	QUANTITY (SY)
LYNDON		
114+85	LT	9
115+45	RT	20
117+52	LT	39
117+60	RT	17
118+34	RT	22
119+69	LT	22
119+96	RT	26
120+60	LT	17
120+69	RT	9
121+27	RT	6
122+10	RT	24
123+17	LT	85
123+24	RT	40
125+80	RT	70
126+74	LT	33
128+07	RT	18
129+18	LT	16
129+85	LT	16
130+67	LT	21
131+15	RT	57
131+92	LT	23
132+68	LT	22
133+83	LT	42
134+13	RT	176
134+60	LT	19
136+10	LT	62
136+65	RT	16
137+27	RT	14
137+72	LT	19
138+45	RT	27
139+04	RT	22
SUBTOTAL		1009

STATION	POSITION	QUANTITY (SY)
STATE HIGHWAY		
ST. JOHNSBURY		
26+77	LT	14
29+43	RT	24
30+08	RT	26
42+36	RT	5
SUBTOTAL		69
COLUMN 1		2206
COLUMN 2		1837
COLUMN 3		1009
COLUMN 4		69
SUBTOTAL		5121
ROUNDING		79
TOTAL		5200

NOTES:

1. PAVING LIFT SHALL BE A MINIMUM OF 1 1/2 " AND A MAXIMUM OF 2".
2. THE COST OF PROVIDING AND PLACING SUBBASE MATERIAL, CLEANING EXISTING PAVED SURFACES, INCLUDING POWER EQUIPMENT, APPLYING EMULSION, AND FOR FILLING JOINTS, CRACKS AND HOLES WILL NOT BE PAID DIRECTLY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
3. EXCAVATION NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
4. FIELD DRIVES 2'-0"; RESIDENTIAL AND COMMERCIAL DRIVES 4'-0"; OR AS DIRECTED BY THE ENGINEER.

LEGEND

ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

NOT TO SCALE

Stantec

DRIVE DETAIL SHEET

PROJECT NAME: ST. JOHNSBURY-LYNDON

PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p01c052ds.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 15 OF 133

EXISTING CULVERT INVENTORY TABLE

STATION	CULVERT SIZE	CULVERT MATERIAL	COMMENT
U.S. ROUTE 5			
ST. JOHNSBURY			
158+68	12"	CMP	
160+59	4'x4'	CONC. BOX	BR 130
162+62	12"	PVC	
166+83	24"	CMP	
172+64	18"	CMP	
175+96	5'x5'	CONC. BOX	BR 131
180+22	18"	RCP	
189+43	18"	CMP	
198+14	18"	CMP	
207+64	15"	RCP	
211+05	12"	RCP	
214+86	4'x4'	CONC. BOX	BR 132
217+65	18"	RCP	
219+84	12"	CMP	
222+19	18"	CMP	
224+55	24"	CMP	
226+82	12"	RCP	
234+81	6'x9'	CONC. BOX	BR 133
249+62	48"	CMP	
251+52	24"	RCP	
262+88	24"	CMP	
270+90	120"	CMP	BR 134
274+75	18"	RCP	
278+89	24"	CMP	
288+26	24"	CMP	
296+84	4'X4'	CONC. BOX	
305+94	24"	CMP	
311+73	15"	CPEP	
316+01	15"	RCP	
317+05	15"	RCP	
321+35	18"	RCP	
324+51	36"	CMP	
327+53	12"	PVC	
332+23	3'X3'	CONC. BOX	
338+00	48"	RCP	BR 136
343+68	15"	CMP	
355+56	2'X4'	CONC. BOX	
360+65	18"	RCP	
369+61	18"	RCP	
376+22	24"	RCP	
LYNDON			
9+52	15"	CPEP	
16+91	4'x4'	CONC. BOX	BR 138
21+66	60"	CMP	BR 139
26+14	30"	CMP	
30+64	18"	RCP	
34+01	24"	CMP	
37+81	24"	RCP	
42+87	15"	RCP	
51+54	24"	CMP	
57+26	24"	CMP	
59+26	24"	CMP	
66+18	18"	CMP	
69+94	36"	RCP	
78+23	18"	CMP	
82+96	18"	RCP	
85+33	18"	RCP	
102+63	24"	CMP	
124+42	6'X3'	CONC. BOX	BR 142
ST. JOHNSBURY STATE HIGHWAY			
ST. JOHNSBURY			
19+62	18"	CMP	
23+14	18"	CMP	
27+06	56"	CMP	BR 2
37+72	UNKNOWN	UNKNOWN	
40+24	18"	CMP	
52+38	18"	CMP	
52+95	18"	CMP	

REHAB. DI'S, CB'S or MH'S, CLASS I OR II
(ITEM 604.412 OR 604.415)

STATION	POSITION	DESCRIPTION
U.S. ROUTE 5		
ST. JOHNSBURY		
152+09	RT	DI
198+57	RT	MH
198+61	LT	MH
201+15	LT	MH
211+05	RT	DI
222+20	RT	DI
224+55	RT	DI
226+82	RT	DI
234+69	RT	DI
237+97	RT	DI
237+99	LT	DI
238+95	RT	DI
243+65	LT	DI
348+22	RT	DI
LYNDON		
59+24	RT	DI
60+58	RT	DI
65+50	LT	DI
66+16	RT	DI
66+19	LT	DI
66+83	LT	DI
67+58	LT	DI
68+22	LT	DI
68+83	LT	DI
68+86	LT	DI
74+69	RT	DI
76+50	RT	DI
78+22	LT	DI
78+23	RT	DI
82+84	LT	DI
83+03	RT	DI
85+33	RT	DI
85+33	LT	DI
90+53	LT	DI
95+23	LT	DI
95+55	RT	MH
99+03	RT	DI
102+50	RT	DI
111+88	RT	DI
126+61	RT	DI
130+45	RT	DI
ST. JOHNSBURY STATE HIGHWAY		
ST. JOHNSBURY		
3+22	RT	DI
3+24	LT	DI
48+61	RT	DI
48+62	LT	DI

REHAB. DI'S, CB'S or MH'S, CLASS I
(ADJUSTED BY OTHERS)

STATION	POSITION	DESCRIPTION
U.S. ROUTE 5		
LYNDON		
60+82	LT	TMH

CHANGING ELEVATION OF SEWER MANHOLES
(ITEM 604.42)

(NO FEDERAL/STATE PARTICIPATION)

STATION	POSITION	DESCRIPTION
U.S. ROUTE 5		
ST. JOHNSBURY		
198+63	RT	SMH
203+75	LT	SMH
206+10	LT	SMH
207+92	LT	SMH
239+16	RT	SMH
241+51	RT	SMH
242+58	RT	SMH
LYNDON		
65+74	RT	SMH
67+58	RT	SMH
78+45	LT	SMH
80+97	LT	SMH
97+70	RT	SMH
99+55	RT	SMH
105+98	RT	SMH
119+62	LT	SMH
126+93	LT	SMH

ADJUST ELEVATION OF VALVE BOX
(ITEM 629.20)

(NO FEDERAL/STATE PARTICIPATION)

STATION	POSITION	DESCRIPTION
U.S. ROUTE 5		
ST. JOHNSBURY		
198+56	RT	WSO
198+68	RT	WSO
198+76	RT	WSO
206+26	RT	WSO
208+30	RT	WSO
229+53	RT	WSO
238+39	RT	WSO
238+40	RT	WSO
242+67	RT	WSO
242+72	RT	WSO
260+58	RT	WSO
271+03	RT	WSO
330+88	LT	WSO
330+92	LT	WSO
381+64	LT	WSO
LYNDON		
72+17	LT	WSO
72+21	LT	WSO
95+67	LT	WSO
96+50	RT	WSO
111+65	RT	WSO

NOT TO SCALE

Stantec

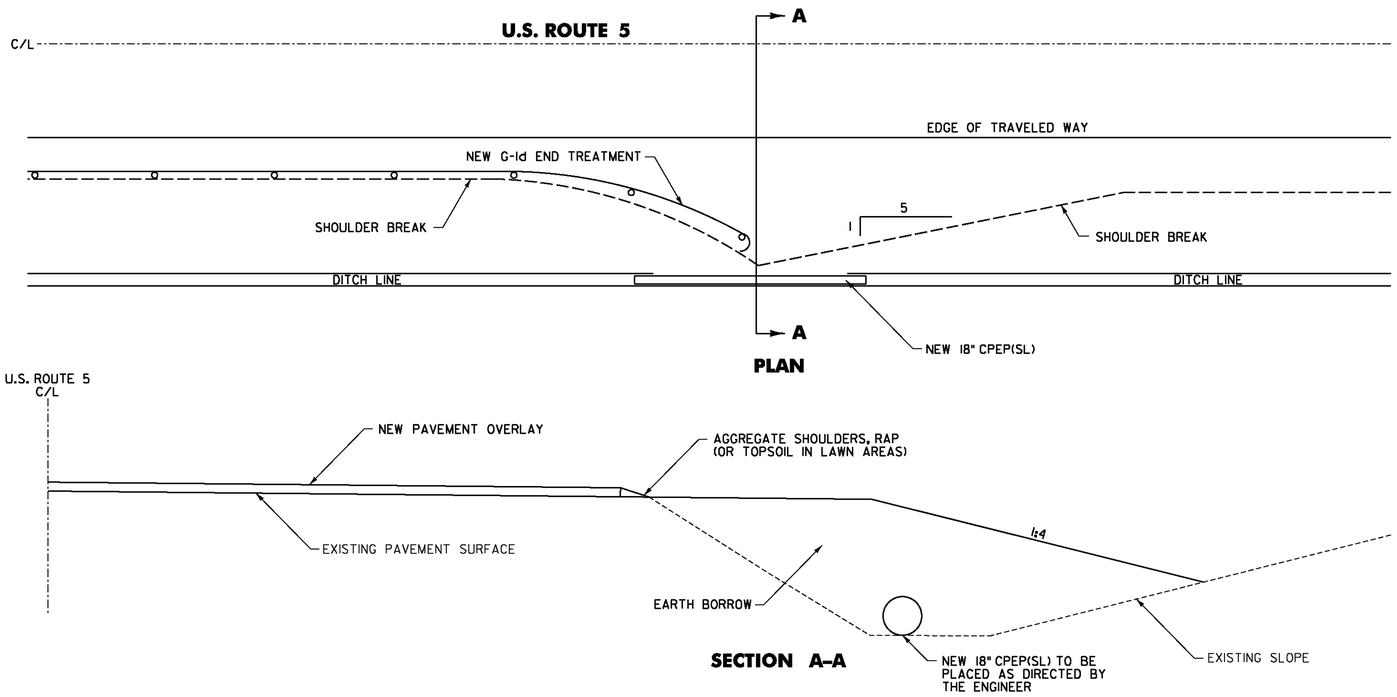
CULVERT & STRUCTURE INVENTORY SHEET

PROJECT NAME: ST. JOHNSBURY-LYNDON

PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262csd.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 16 OF 133

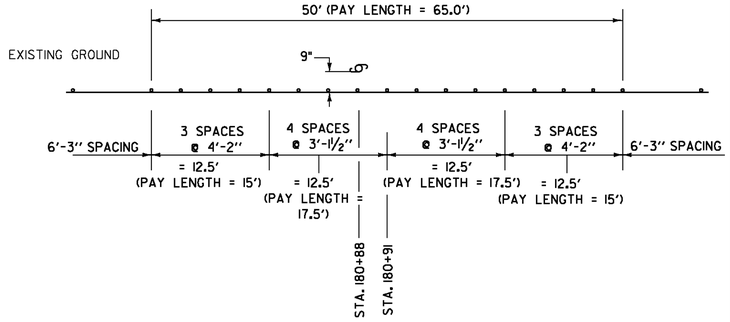


PLAN

SECTION A-A

DETAIL FOR PIPE PLACEMENT END TREATMENT LOCATION

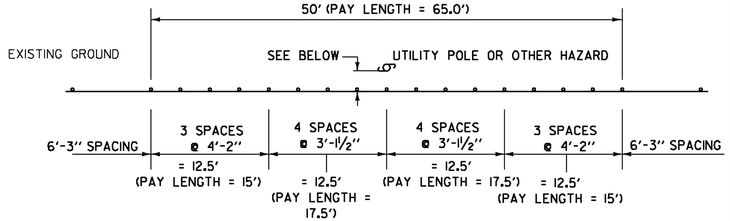
U.S. ROUTE 5
ST. JOHNSBURY STA. 214+50.5, RT
ST. JOHNSBURY STA. 215+33.5, RT
ST. JOHNSBURY STA. 295+19.5, LT
ST. JOHNSBURY STA. 331+78.0, LT
ST. JOHNSBURY STA. 332+78.0, LT
ST. JOHNSBUTY STA. 336+94.0, LT
ST. JOHNSBURY STA. 360+09.0, LT
ST. JOHNSBURY STA. 373+32.0, RT
U.S. ROUTE 5
LYNDON STA. 16+08.0, RT
LYNDON STA. 16+48.0, LT
LYNDON STA. 17+46.5, RT
LYNDON STA. 45+31.5, LT



REDUCED GUARDRAIL POST SPACING DETAIL #1

LOCATION:

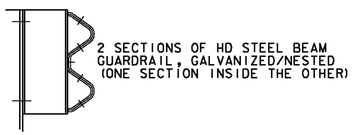
U.S. ROUTE 5
ST. JOHNSBURY STA. 180+88, LT - UTILITY POLE



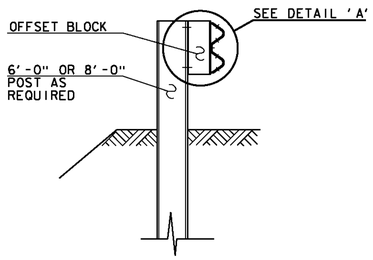
REDUCED GUARDRAIL POST SPACING DETAIL #2

LOCATION:

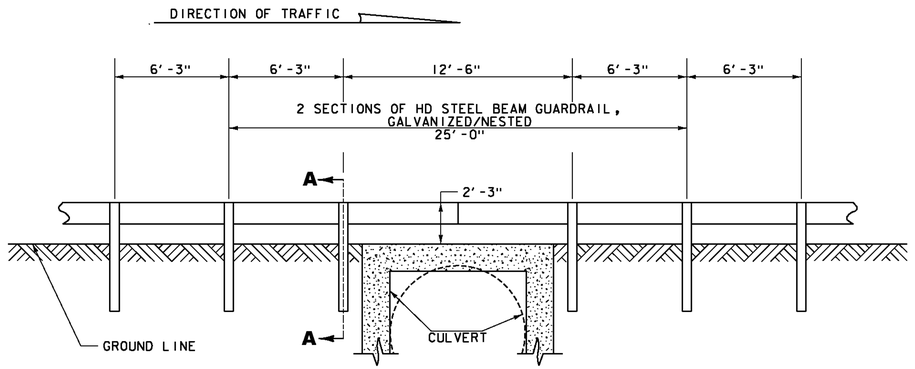
U.S. ROUTE 5
ST. JOHNSBURY STA. 211+95, LT - UTILITY POLE (4 FT BEHIND FACE OF GUARDRAIL)
ST. JOHNSBURY STA. 229+57, LT - UTILITY POLE (4 FT BEHIND FACE OF GUARDRAIL)
ST. JOHNSBURY STA. 264+97.5, LT - UTILITY POLE (1 FT BEHIND FACE OF GUARDRAIL)
U.S. ROUTE 5
LYNDON STA. 46+66, LT - UTILITY POLE (2 FT BEHIND FACE OF GUARDRAIL)



DETAIL A



SECTION A-A



DETAIL OF STEEL BEAM GUARDRAIL AT SMALL CULVERTS

U.S. ROUTE 5
ST. JOHNSBURY STA. 175+96, LT (BRIDGE #131)
U.S. ROUTE 5
LYNDON STA. 124+42, LT (BRIDGE #142)

NOTES

1. SEE STANDARDS G-1 & G-1D FOR STEEL BEAM GUARDRAIL DETAILS.
2. THIS WORK SHALL BE PAID UNDER ITEM 621.216 HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED AT A PAY FACTOR OF 1.0.
3. THIS DETAIL TO BE USED AS INDICATED ON SHEETS 9 TO 14 OR AS DIRECTED BY THE ENGINEER.

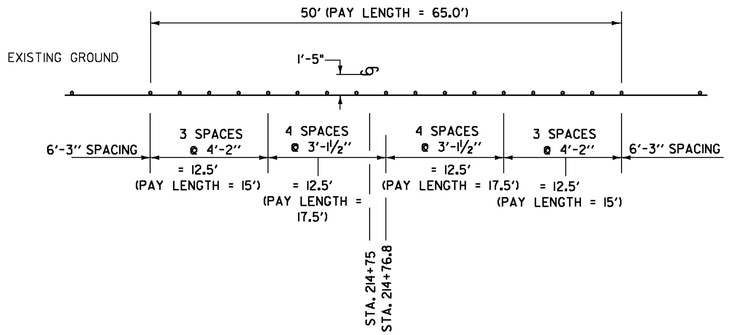
NOT TO SCALE

Stantec

GUARDRAIL DETAIL SHEET #1

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

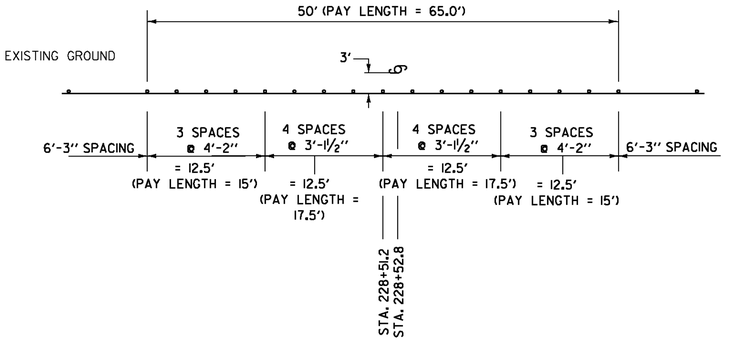
FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262gds01.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 17 OF 133



REDUCED GUARDRAIL POST SPACING DETAIL #3

LOCATION:

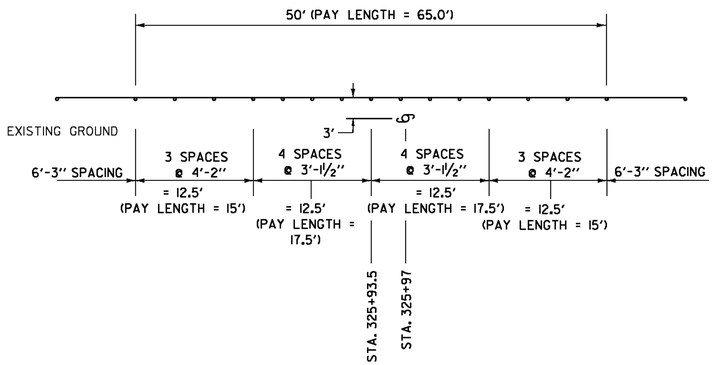
U.S. ROUTE 5
ST. JOHNSBURY STA. 214+75, LT - GUIDE POLE



REDUCED GUARDRAIL POST SPACING DETAIL #4

LOCATION:

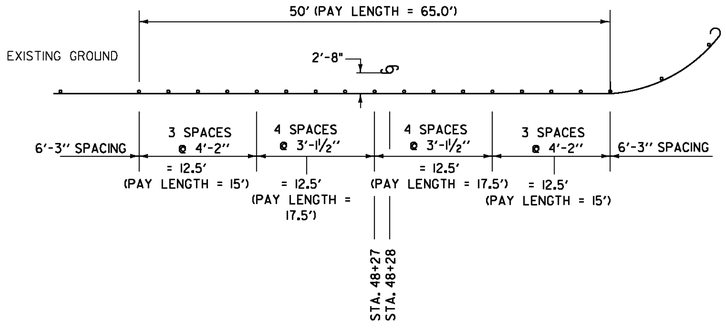
U.S. ROUTE 5
ST. JOHNSBURY STA. 228+52.8, LT - UTILITY POLE



REDUCED GUARDRAIL POST SPACING DETAIL #5

LOCATION:

U.S. ROUTE 5
ST. JOHNSBURY STA. 325+97, RT - UTILITY POLE



REDUCED GUARDRAIL POST SPACING DETAIL #6

LOCATION:

U.S. ROUTE 5
LYNDON STA. 48+28, LT - UTILITY POLE

NOT TO SCALE

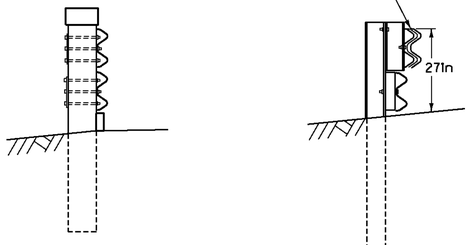
Stantec

GUARDRAIL DETAIL SHEET #2

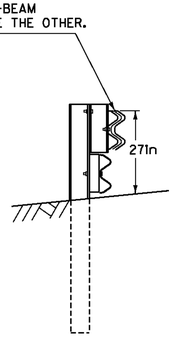
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262gds02.i

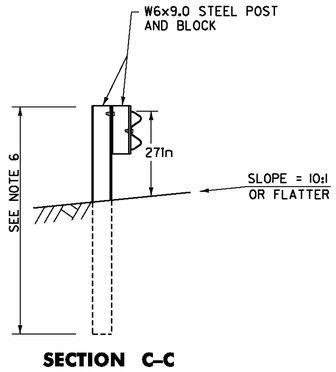
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 18 OF 133



SECTION A–A



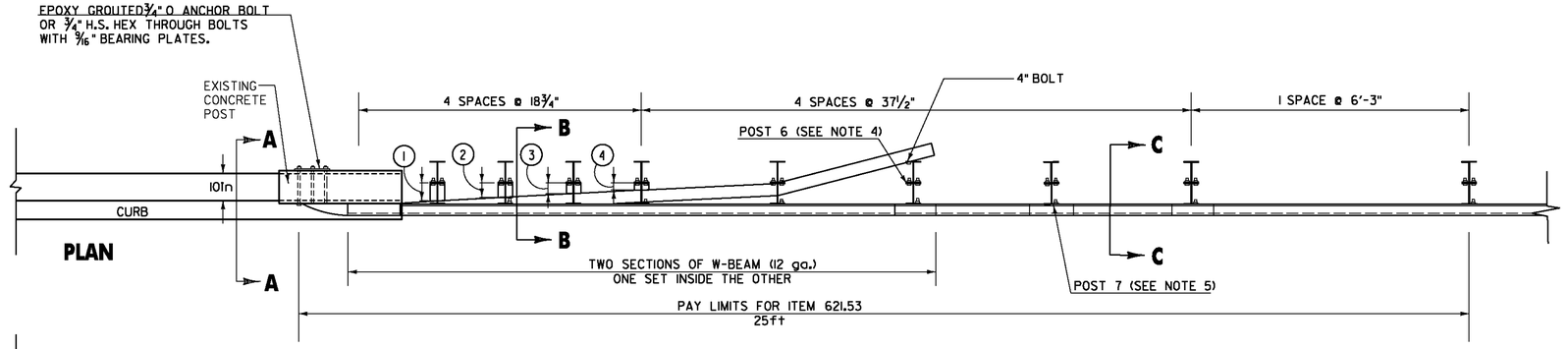
SECTION B–B



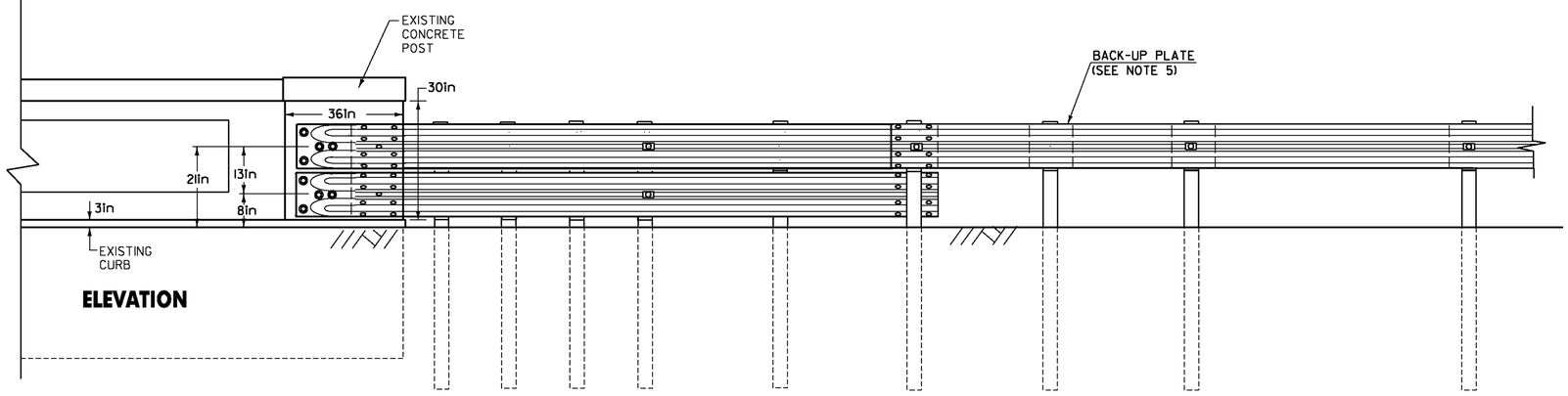
SECTION C–C

NOTES

1. THIS GUARDRAIL TRANSTION IS FOR CONNECTION TO A VERTICAL CONCRETE BRIDGE AND SHOULD NOT BE CONNECTED DIRECTLY TO A CONCRETE SAFETY SHAPE.
2. BOTTOM BEAM BLOCKS ARE OFFSET DRILLED TO SIT SQUARELY ON THE POST FLANGE. BLOCKS ARE ATTACHED WITH 5/16" CARRIAGE BOLTS.
3. THE RUBRAIL MAY BE SHOP BENT IN THE LAST THREE FEET TO FACILITATE INSTALLATION.
4. POSTS 1, 2, 3, 4, AND 6 REQUIRE AN ADDITIONAL HOLE TO ATTACH LOWER BLOCKS AND OR LOWER BEAM.
5. AT POST 7, BACK-UP PLATE BOLTED TO BLOCK ONLY.
6. POSTS WILL BE SIX FOOT STEEL POSTS.



PLAN



ELEVATION

BOTTOM BEAM WOOD BLOCKS 14" x 4 1/2"	
POST #	THICKNESS
1	5in
2	4in
3	3in
4	2in

LOCATIONS:

U.S. ROUTE 5
ST. JOHNSBURY STA. 289+53.5 TO 289+78.5, LT (BRIDGE #135)
ST. JOHNSBURY STA. 290+25 TO 290+50, RT (BRIDGE #135)
ST. JOHNSBURY STA. 294+42.5 TO 294+67.5, LT (BRIDGE #135)
ST. JOHNSBURY STA. 295+14.5 TO 295+39.5, RT (BRIDGE #135)
ST. JOHNSBURY STA. 351+25 TO 351+50, LT (BRIDGE #137)
ST. JOHNSBURY STA. 352+05 TO 352+30, RT (BRIDGE #137)
ST. JOHNSBURY STA. 353+98 TO 354+23, LT (BRIDGE #137)
ST. JOHNSBURY STA. 354+77 TO 355+02, RT (BRIDGE #137)

ST. JOHNSBURY STATE HIGHWAY
ST. JOHNSBURY STA. 3+56 TO 3+81, RT (BRIDGE #1)
ST. JOHNSBURY STA. 3+69.5 TO 3+94.5, LT (BRIDGE #1)
ST. JOHNSBURY STA. 8+08 TO 8+33, RT (BRIDGE #1)
ST. JOHNSBURY STA. 8+24.5 TO 8+49.5, LT (BRIDGE #1)

NOT TO SCALE

Stantec

GUARDRAIL DETAIL SHEET #3

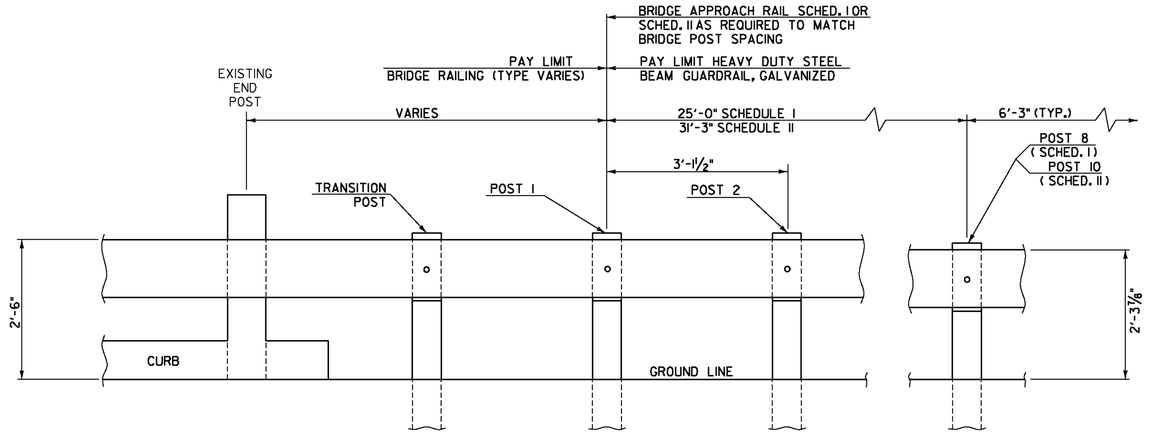
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262gds03.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 19 OF 133

BRIDGE QUANTITY SHEET

STATION	POS.	BRIDGE NUMBER	OFFSET BLOCK	525.10 (LF)	525.40 (LF)	525.50 (LF)	529.25 (CY)	REMARKS
LOCATION:								
U.S. ROUTE 5								
ST. JOHNSBURY								
231+45.0 - 231+65.0	LT	TH-85	8"					SCHEDULE II APPROACH RAILING, SEE THIS SHEET
231+95.0 - 232+20.0	LT	TH-85	8"					SCHEDULE II APPROACH RAILING, SEE THIS SHEET
329+56.0 - 329+73.5	RT	TH-15	8"					SCHEDULE II APPROACH RAILING, SEE THIS SHEET
330+01.5 - 330+37.0	RT	TH-15	8"					SCHEDULE I APPROACH RAILING, SEE THIS SHEET
SUBTOTALS								
ROUNDING								
TOTAL								



SCHEDULE I

POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½"	1.4 x 12'-6"
2	3'-1½"	
3	3'-1½"	
4	3'-1½"	
5	4'-2"	1.2 x 12'-6"
6	4'-2"	
7	4'-2"	
8	6'-3" (TYP.)	1.0 (TYP.)
9		
TOTAL PAY LENGTH = 32' - 6"		

SCHEDULE II

POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½"	1.4 x 18'-9"
2	3'-1½"	
3	3'-1½"	
4	3'-1½"	
5	3'-1½"	
6	3'-1½"	
7	4'-2"	1.2 x 12'-6"
8	4'-2"	
9	4'-2"	
10	6'-3" (TYP.)	1.0 (TYP.)
11		
TOTAL PAY LENGTH = 41' - 3"		

SCHEDULE I APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT POST NO. 1.
SCHEDULE II APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT THE BRIDGE END POST.

BRIDGE APPROACH RAILING

GENERAL NOTES

1. SEE VAOT STANDARDS G-1 AND G-1d FOR ADDITIONAL DETAILS.
2. ~~BRIDGE RAIL SHALL BE HEAVY DUTY STEEL BEAM GUARDRAIL, GALVANIZED.~~
3. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
4. APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM GUARDRAIL, GALVANIZED FOR 25' FROM THE ENDS OF THE BRIDGE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER.
5. ~~FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICABLE TO THE MIDPOINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.~~
6. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
7. SEE STANDARD SHEET G-1 FOR CONNECTION OF STEEL BEAM TO OFFSET BLOCK AND OFFSET BLOCK TO BRIDGE POST.
8. SEE STANDARD SHEET G-1 FOR GUARDRAIL DELINEATOR DETAILS AND PLACEMENT.
9. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 31'-3" APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.
10. ~~ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE APPROPRIATE BRIDGE RAILING ITEMS AS DENOTED IN THE PLANS.~~
11. ALL STEEL POSTS, PLATES, OFFSET BLOCKS AND FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH SUBSECTION 732.04 , UNLESS OTHERWISE NOTED, AND SHALL BE GALVANIZED AFTER FABRICATION TO CONFORM TO AASHTO A-123.
12. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.

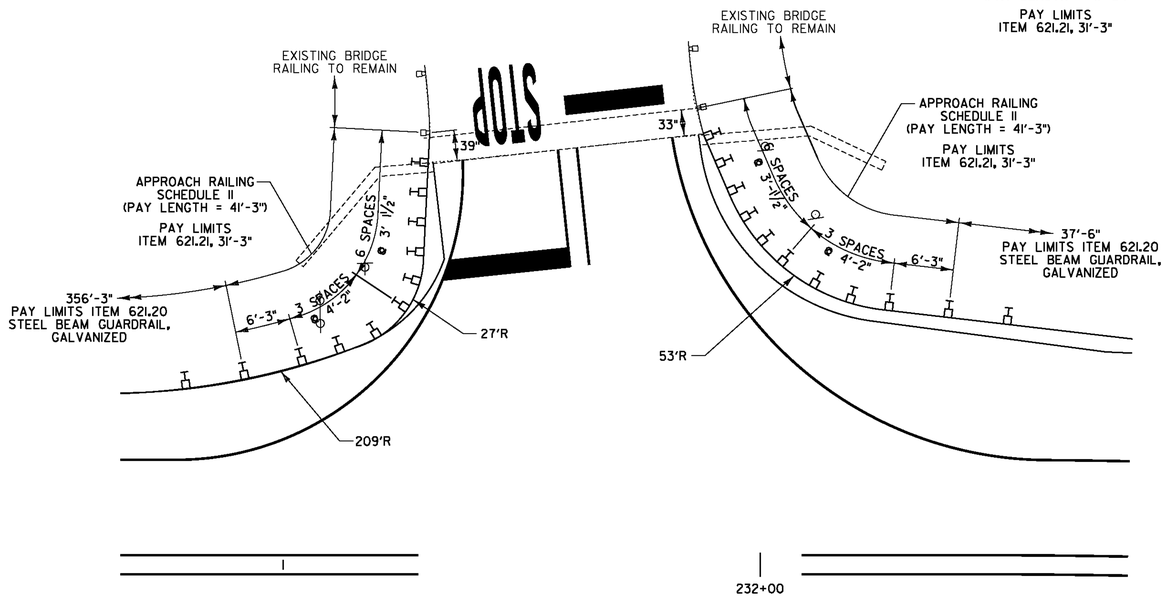
NOT TO SCALE

Stantec

BRIDGE DETAIL SHEET #1

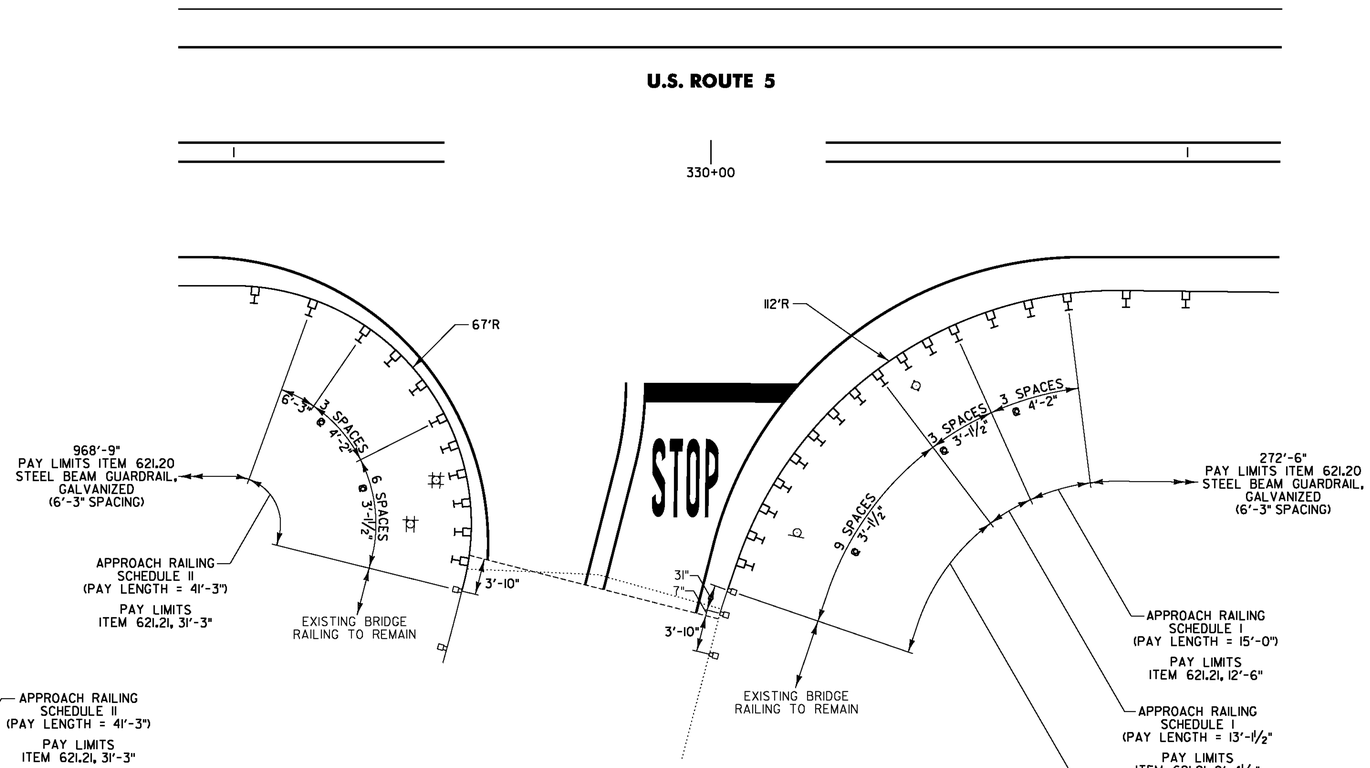
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10b266bds1.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 20 OF 133



U.S. ROUTE 5

ST. JOHNSBURY
DEPOT HILL ROAD MM 4.390 = STA. 231+84



ST. JOHNSBURY
PIERCE ROAD MM 6.250 = STA. 330+00

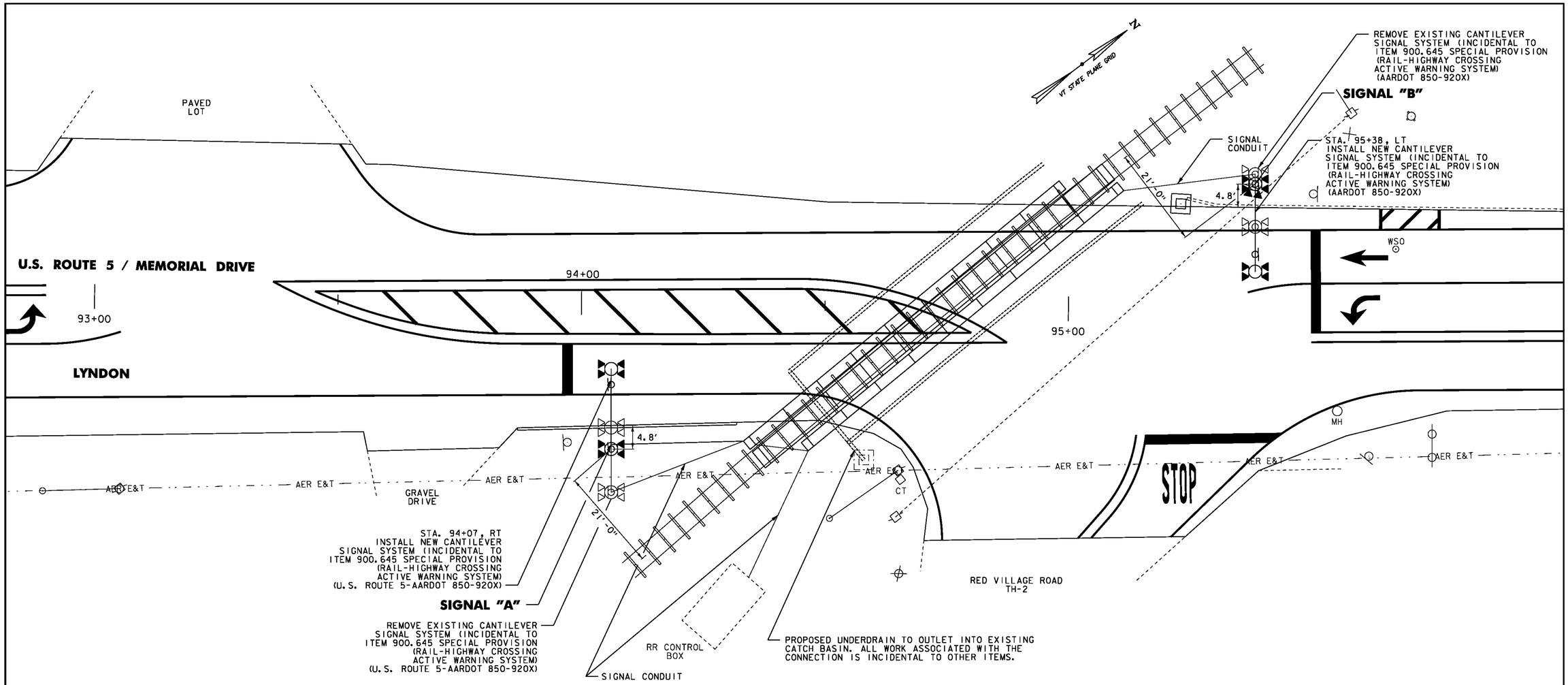
NOT TO SCALE

Stantec

BRIDGE DETAIL SHEET #2

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10b266bds2.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 21 OF 133



SIGNAL LAYOUT
U.S. ROUTE 5 CROSSING AARDOT #850-920X

ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (U.S. ROUTE 5-AARDOT 850-920X) U.S. ROUTE 5 STA. 94+75		
QUANTITY	UNIT	DESCRIPTION
2	EA	REMOVE EXISTING CANTILEVER SIGNAL SYSTEM
2	EA	CANTILEVER SIGNAL SYSTEM WITH WALKWAY
950	LF	WIRED CONDUIT
18	EA	12" LED RAILROAD SIGNAL HEAD
1	EA	ELECTRONIC WARNING BELL

NOTE:
REMOVE EXISTING RAILROAD UTILITY POLES, CUT AND REMOVE EXISTING WIRES WITHIN 100' OF CROSSING, AS DIRECTED BY THE ENGINEER AND APPROVED BY THE RAILROAD.

NOT TO SCALE

AARDOT #850-920X

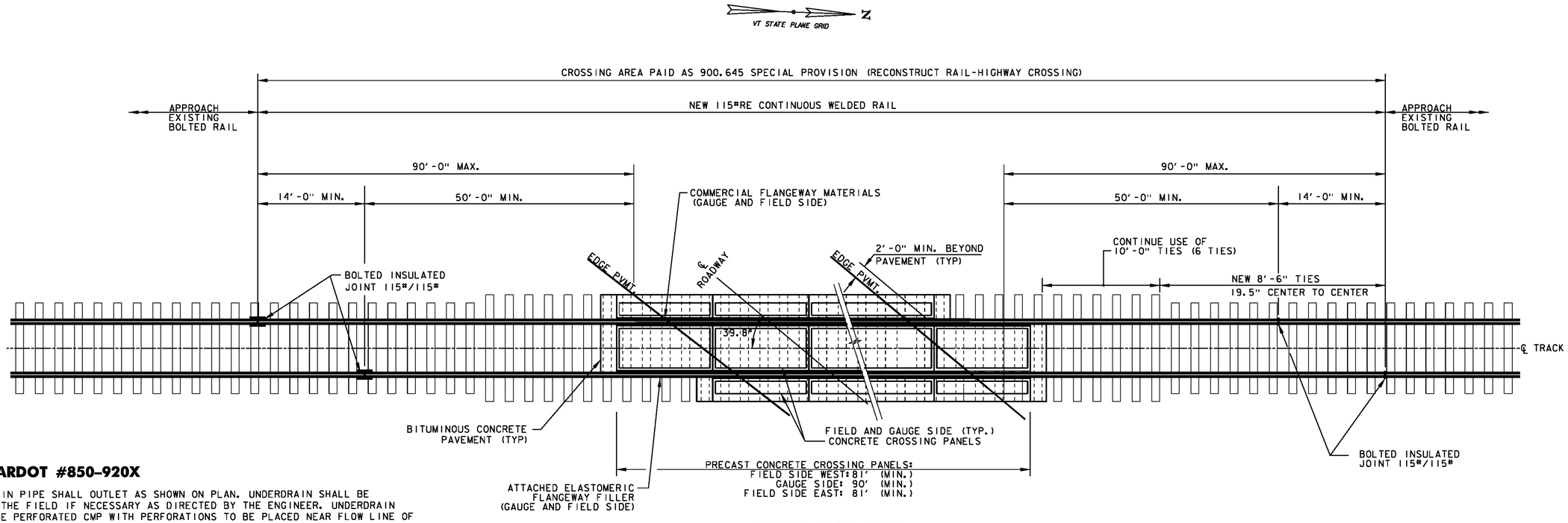
RAILROAD CROSSING DETAIL SHEET #1

Stantec

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262rcd01.i

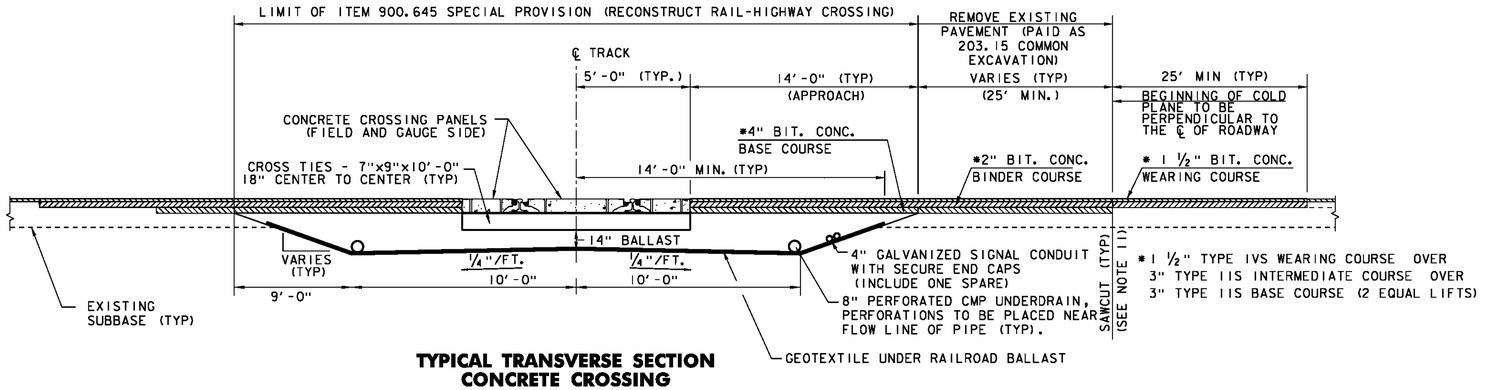
PLOT DATE: 13-DEC-2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 22 OF 133



TYPICAL PLAN VIEW
U.S. ROUTE 5 CROSSING AARDOT #850-920X
LYNDON STA. 94+80

NOTES – AARDOT #850-920X

1. NEW UNDERDRAIN PIPE SHALL OUTLET AS SHOWN ON PLAN. UNDERDRAIN SHALL BE ADJUSTED IN THE FIELD IF NECESSARY AS DIRECTED BY THE ENGINEER. UNDERDRAIN PIPE SHALL BE PERFORATED CMP WITH PERFORATIONS TO BE PLACED NEAR FLOW LINE OF PIPE.
2. GEOTEXTILE SHALL BE GEOTEXTILE UNDER RAILROAD BALLAST.
3. ALL RAIL JOINTS WITHIN THE CROSSING AREA AND 50'-0" BEYOND WILL BE CROPPED AND WELDED IN ACCORDANCE WITH THE LATEST REVISION OF A.R.E.M.A. SPECIFICATIONS AT AN OFF-SITE ELECTRIC WELDING PLANT. WELDING CAN BE DONE IN FIELD UTILIZING THERMITE WELDING WITH ADVANCE APPROVAL FROM THE AGENCY. WELDED JOINTS SHALL BE GROUND TO CONFORM TO THE SHAPE OF THE RAIL ON GAUGE AND FIELD SIDES.
4. TIE SPACING UNDER CWR AREA SHALL BE 18 INCHES ON CENTER OR AS REQUIRED IN CROSSING PANEL AREA BY MANUFACTURER.
5. NEW 7"x9"x10'-0" AND 7"x9"x8'-6" TIES SHALL BE INSTALLED AS SHOWN. TIES SHALL BE REPLACED AS RECOMMENDED BY THE RAILROAD AND APPROVED BY THE ENGINEER INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL HIGHWAY CROSSING)).
6. TIE PLATES SHALL BE NEW 14 INCH PLATES, MANUFACTURED FOR THE RAIL SIZE USED. PLATES SHALL BE INSPECTED AND APPROVED BY THE RAILROAD AND THE ENGINEER. RAIL FASTENERS SHALL BE CUT TRACK SPIKES.
7. BALLAST OUTSIDE THE FULL DEPTH RAILROAD CONSTRUCTION AREA SHALL EXTEND 12 INCHES BEYOND END OF TIES AND SLOPED 1:2 TO THE ROADBED.
8. TYPE AND DESIGN OF COMMERCIAL FLANGEWAY MATERIALS SHALL RECEIVE APPROVAL FROM THE ENGINEER.
9. MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED FOR THE INSTALLATION OF COMMERCIAL FLANGEWAY MATERIALS, INSULATED JOINTS, AND PRECAST CONCRETE PANELS.
10. CONTRACTOR SHALL ADD BALLAST, LINE, TAMP, AND SURFACE TRACK IN APPROACH AREAS TO OBTAIN A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED TRACK TO THE SATISFACTION OF THE ENGINEER AND RAILROAD. THIS WORK IS INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 900.645 (RECONSTRUCT RAIL-HIGHWAY CROSSING).
11. EXCAVATION, UNDERDRAIN, BALLAST, GEOTEXTILE, FLANGEWAY MATERIALS AND TIES ARE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL-HIGHWAY CROSSING).
12. SAW CUTTING SHALL NOT BE PAID SEPARATELY BUT BE INCIDENTAL TO ITEM 210.10.
13. ALL WORK MUST BE PERFORMED WITHIN THE EXISTING RIGHT OF WAY. NO ADDITIONAL ROW HAS BEEN AQUIRED BY THE STATE TO ACCOMMODATE CONSTRUCTION OF THE RAIL CROSSING.



TYPICAL TRANSVERSE SECTION
CONCRETE CROSSING

NOT TO SCALE

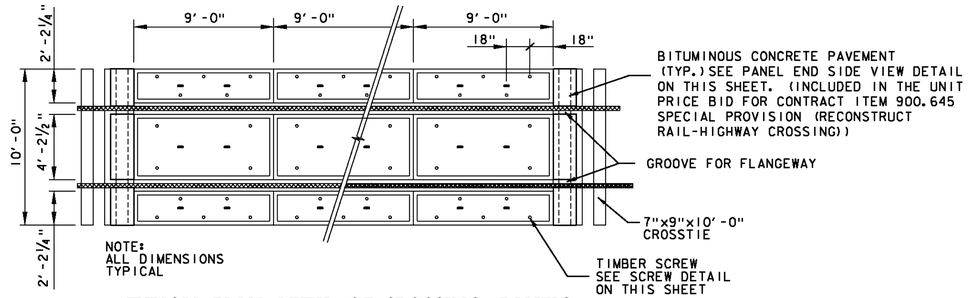
AARDOT #850-920X

RAILROAD CROSSING DETAIL SHEET #2

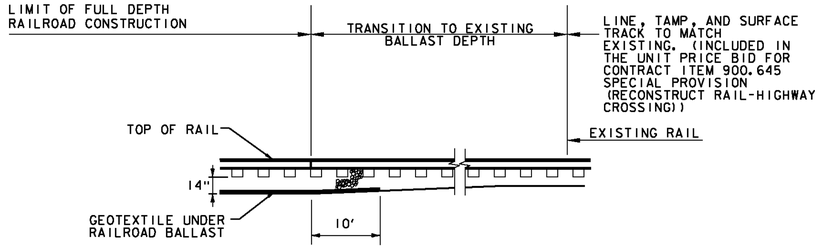
Stantec

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

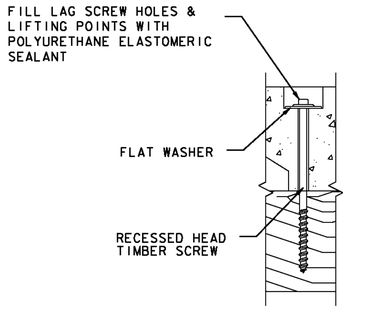
FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262rcd02.i
PLOT DATE: 13-DEC-2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 23 OF 133



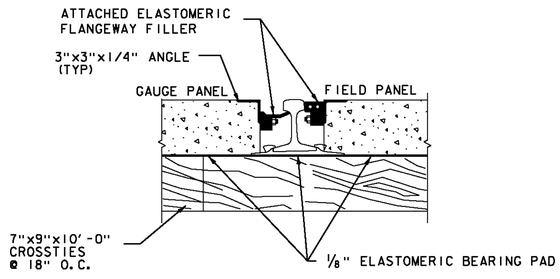
TYPICAL PLAN VIEW OF CROSSING PANELS



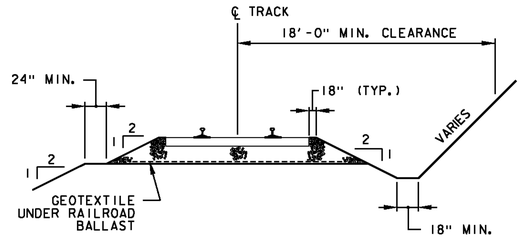
TYPICAL BALLAST TRANSITION



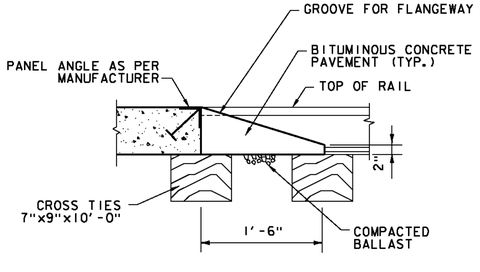
SCREW DETAIL



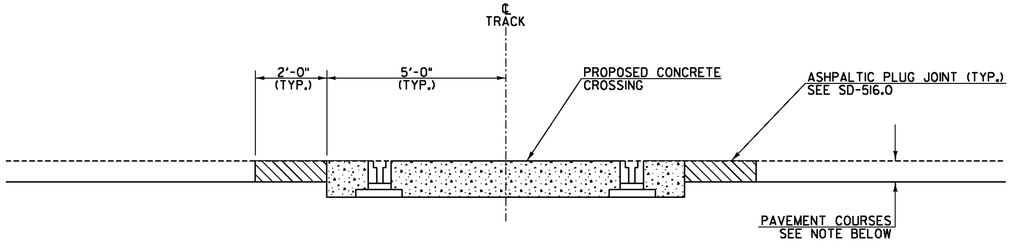
RAIL-SEALS TYPICAL



TYPICAL SECTION RAILROAD



PANEL END SIDE VIEW



TRANSITION AREA FOR RAIL CROSSING

U.S. ROUTE 5
LYNDON STA. 94+80

NOTE: SEE THE TYPICAL TRANSVERSE SECTION ON SHEET 23 FOR EXCAVATION, BALLAST AND PAVEMENT DEPTHS AND TRANSITIONS.

NOT TO SCALE

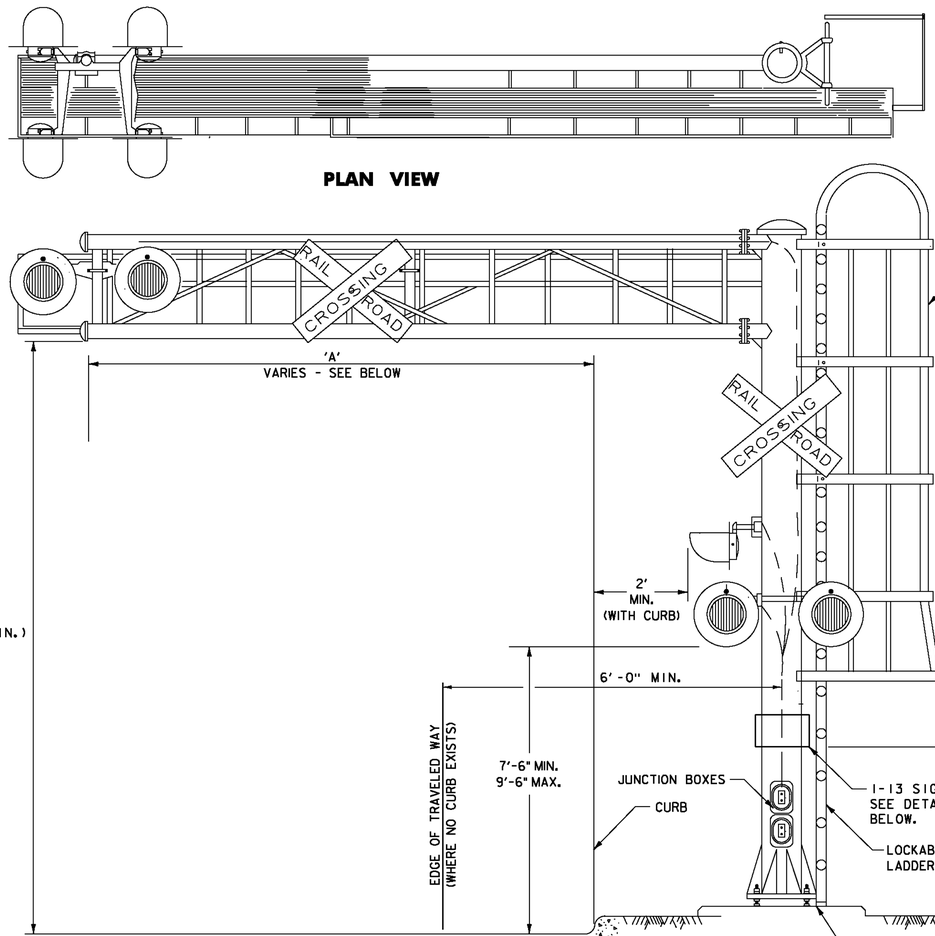
AARDOT #850-920X

RAILROAD CROSSING DETAIL SHEET #3

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262rcd03.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 24 OF 133

Stantec

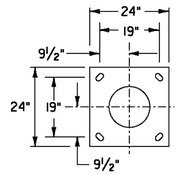


ELEVATION VIEW
CANTILEVER SIGNAL SUPPORT WITH CATWALK

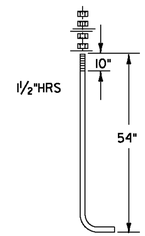
U.S. ROUTE 5 LYNDON STA. 94+07, RT - 'A' = 11'-0"
U.S. ROUTE 5 LYNDON STA. 95+38, LT - 'A' = 13'-0"

CANTILEVER SUPPORT NOTES

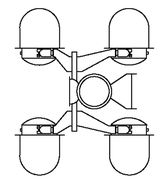
1. A STRIP OF ASTM D 4956 TYPE III OR TYPE V RETROREFLECTIVE WHITE MATERIAL NOT LESS THAN 2 INCHES IN WIDTH, SHALL BE USED ON EACH SUPPORT AT HIGHWAY-RAIL GRADE CROSSING FOR THE FULL LENGTH OF THE FRONT AND BACK OF THE SUPPORT FROM THE CROSSBUCK SIGN OR NUMBER OF TRACKS SIGN TO NEAR GROUND LEVEL.
2. PLACE A MINIMUM OF (3) I-13 SIGNS AT EACH CROSSING. ONE ON EACH SIDE OF THE CROSSING AND ONE ON THE SIGNAL CASE OR HOUSE. FOR SIGN DETAIL, SEE BELOW.
3. FLASHING LIGHT SIGNAL EQUIPMENT SHALL BE 12" LED FLASHING LIGHT UNITS.
4. ALL MAST LIGHTS AND SIGNS SHALL BE MOUNTED TO MAST BY CLAMPS.
5. ALL MOUNTING BOLTS TO BE HIGH STRENGTH A-325 STEEL.
6. CROSSARM JUNCTION BOX SHALL FACE WALKWAY.
7. HEAVY DUTY WALKWAY SHALL SUPPORT LOADS PER AASHTO.
8. HAND RAIL SHALL BE MIN. 30" HIGH WITH INTERMEDIATE HANDRAIL SET AT 18".
9. THE CANTILEVER SIGNAL SYSTEM SHALL MEET OR EXCEED ALL AAR AND AASHTO STRUCTURAL REQUIREMENTS.
10. THE CANTILEVER SIGNAL SYSTEM SHALL HAVE A MINIMUM ROAD CLEARANCE OF 17'-6".
11. HOLES FOR ADDITIONAL LIGHTS SHALL BE DRILLED IN FIELD.
12. CONTRACTOR MAY ELECT TO SUBMIT PLANS FOR CAST IN PLACE FOUNDATION IN PLACE OF PRECAST.
13. FOR ADDITIONAL SIGNAL SYSTEM NOTES, SEE NEXT SHEET.



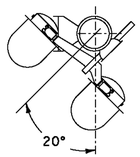
BASE PLATE DETAIL



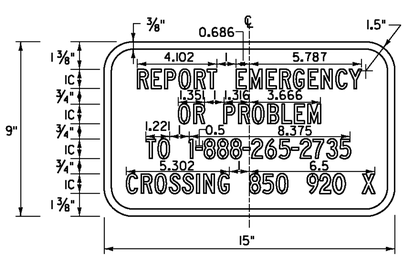
ANCHOR BOLT DETAIL



MAIN MAST LIGHTS



SIDE LIGHTS
20° LEFT
FOR RED VILLAGE RD



I-13

LOCATION:
U.S. ROUTE 5 LYNDON STA. 94+07, RT (ON SIGNAL POLE)
U.S. ROUTE 5 LYNDON STA. 94+25, RT (ON RR CONTROL BOX)
U.S. ROUTE 5 LYNDON STA. 95+38, LT (ON SIGNAL POLE)

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
BLUE BACKGROUND (RETROREFLECTIVE)

MATERIAL: SEE SIGN NOTES ON THIS SHEET

SIGN NOTES:

1. THE EMERGENCY CONTACT TELEPHONE NUMBER IS 1-888-265-2735, THE CROSSING NUMBER IS 850-920X ON U.S. ROUTE 5.
2. COLORS:
   THE SIGNS SHALL HAVE AN ASTM D 4956 TYPE III REFLECTORIZED WHITE TEXT AND BORDER ON AN ASTM D 4956 TYPE III REFLECTORIZED BLUE BACKGROUND. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY AASHTO AND APPROVED BY THE FHWA.
3. MATERIALS:
   THE SIGN BASE MATERIALS USED FOR THE GUIDE SIGNS MAY BE ANY OF THE FOLLOWING MINIMUM THICKNESSES NOTED:
   FLAT SHEET ALUMINUM 0.080"
   HIGH DENSITY OVERLAID PLYWOOD ½"
   THE RETROREFLECTIVE MATERIAL SHALL BE RETROREFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT AND BORDER MAY BE LETTERING FILM OR SILK SCREENED.
4. TEXT DESIGN:
   LETTERS, DIGITS, SYMBOLS, SPACINGS AND TEXT DIMENSIONS SHALL CONFORM TO THE LATEST VERSION OF FHWA'S "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS". DETAILS SHALL CONFORM WITH THOSE DESCRIBED IN THE PUBLICATION "STANDARD HIGHWAY SIGNS" AS SPECIFIED IN THE MUTCD.
5. DESIGN:
   THE DESIGN OF THESE SIGNS SHALL CONFORM WITH THE DETAILS SET FORTH IN THE MANUAL "STANDARD HIGHWAY SIGNS" AS SPECIFIED IN "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. SPECIFICATIONS:
   THE SIGNS SHALL MEET THE VERMONT STANDARD STATE SPECIFICATIONS FOR "TRAFFIC SIGNS" AS DESCRIBED IN THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

NOT TO SCALE

AARDOT #850-920X

Stantec

RAILROAD CROSSING DETAIL SHEET #4

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262rcd04.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 25 OF 133

RAILROAD SIGNAL GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, AND ITS LATEST REVISIONS.

2. OVERHEAD SIGN/SIGNAL SUPPORTS SHALL CONFORM TO AASHTO'S PUBLICATION ENTITLED ''STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS'', DATED 2009 OR ITS LATEST REVISION.

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, LUMINARES, 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 GUSTS: 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 2011, SECTION 501.
   REINFORCING STEEL: STATE OF VERMONT, AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2011, SUBSECTION 713.01.
   ALLOWABLE BEARING CAPACITY: TO BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH MREI10-01. (SEE NOTE 19)
   INTERNAL SOIL FRICTION ANGLE, F :TO BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH MREI10-01. (SEE NOTE 19)

4. ANCHOR BOLTS

   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. SEE STATE OF VERMONT, AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2011, SUBSECTION 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 2011, SUBSECTION 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 2011, SUBSECTION 752.02.

7. GALVANIZING

   ALL STEEL COMPONENTS, EXCEPT CONCRETE REINFORCING AND STAINLESS STEEL HARDWARE, 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 2011, SUBSECTION 752.02.

8. WELDING

   ALL DESIGN DETAILS, WORKMANSHIP, PROCEDURES AND INSPECTION SHALL CONFORM TO VTRANS SPECIFICATIONS SUBSECTION 506.10.

9. FOUNDATIONS

   A. FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE MREI10-01 GUIDELINES ISSUED BY THE AGENCY.

   B. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES:

      1. EXCEPT FOR THE UPPERMOST 2 FT OF SOIL, THE DRILLED SHAFT FOUNDATION SHALL BE POURED AGAINST UNDISTURBED MATERIAL; THE TOP 2 FT OF SOIL SHALL BE NEGLECTED FOR DESIGN PURPOSES. A DISPOSABLE CIRCULAR CONCRETE FORM, IF USED, SHALL NOT BE PLACED DEEPER THAN 2FT, IN ORDER NOT TO REDUCE THE FRICTION BETWEEN THE SOIL AND THE CONCRETE.

      2. BACKFILL MATERIAL PLACED ADJACENT TO THE FOUNDATION SHALL MEET THE REQUIREMENTS FOR GRANULAR BACKFILL FOR STRUCTURES, VAOT 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION SUBSECTION 704.08. BACKFILL MATERIAL SHALL BE COMPACTED AS DESCRIBED IN VAOT 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION SUBSECTION 204.08.

      3. CONCRETE FOR THE FOUNDATION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 501, HPC STRUCTURAL CONCRETE.THE CONCRETE SPECIFICATIONS MAY NEED TO BE ADJUSTED FOR CONSTRUCTABILITY ISSUES. HOWEVER, IF REQUIRED, THE CONTRACTOR SHALL SUBMIT ANY CHANGES TO THE CONCRETE SPECIFICATION FOR REVIEW BY THE VTRANS PROJECT MANAGER.

      4. STEEL PILES SHALL MEET THE REQUIREMENTS OF SECTION 505.

      5. WHEN THE DESIGN DEPTH OF A FOUNDATION CANNOT BE OBTAINED DUE TO UNFORESEEN FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR 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. SIGNALS/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 SUBSECTION 707.03.

10. EACH OVERHEAD TRAFFIC SIGNAL/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 5/8 IN. X 8 FT (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 FT). 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 1/2 IN. 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.

13. THE DETAILS OF DESIGN FOR THE STRUCTURE AND FOUNDATION 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). ALL DESIGN CALCULATIONS FOR THE STRUCTURE AND THE FOUNDATION SHALL BE CHECKED AND STAMPED BY A LICENSED PROFESSIONAL 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.

    G. EVERY MEMBER AND CONNECTION IN AN OVERHEAD TRAFFIC SIGNAL SUPPORT SHALL BE DESIGNED TO PROVIDE ADDITIONAL RESIDUAL CAPACITY FOR FUTURE MODIFICATION EQUIVALENT TO A 5-SECTION TRAFFIC SIGNAL HEAD WITH A 5 INCH LOUVERED BACKPLATE LOCATED ON THE OUTERMOST EXTENT OF THE MAST ARM.

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/SIGNALS 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 SUBSECTION 506.10).

16. THE RAILROAD SIGNALS SHALL BE MOUNTED TO THE ARM OR POLE USING A FIXED MOUNT SYSTEM, UNLESS OTHERWISE NOTED ON THE CROSS SECTION SHEET. FOR SIGNALS MOUNTED ON A MAST ARM, THE MAST ARM AND MOUNTING POINT SHALL BE IN THE MIDDLE OF THE SIGNAL HEAD.

17. BASE PLATES SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GAUGE AND THE HORIZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH, AND GAUGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HAND HOLE.

18. SEE STANDARD E-171A FOR ADDITIONAL NOTES.

19. SOIL BORINGS FOR THE RAILROAD SIGNAL FOUNDATION AND THE SUBSEQUENT GEOTECHNICAL ANALYSIS ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DESIGN CRITERIA, ANALYSIS AND PROPOSALS SHALL BE IN ACCORDANCE WITH MREI10-01. ALL COSTS ASSOCIATED WITH THE SCHEDULING, PROCUREMENT AND ANALYSIS OF THE SOIL BORING INFORMATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 850-920X).

NOT TO SCALE

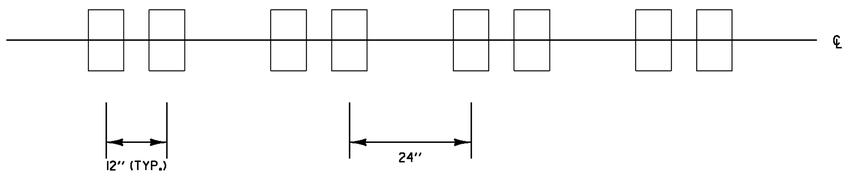
AARDOT #850-920X

Stantec

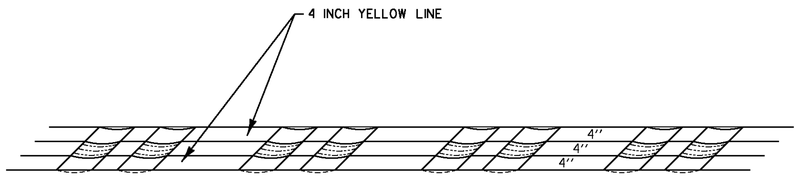
RAILROAD CROSSING DETAIL SHEET #5

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

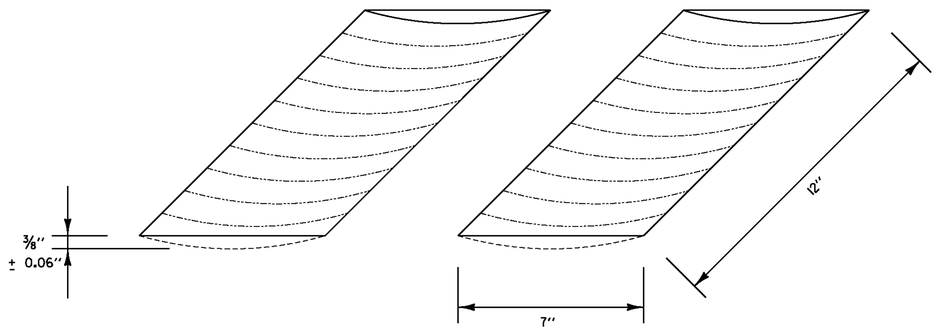
FILE NAME: pl0c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262rcd05.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 26 OF 133



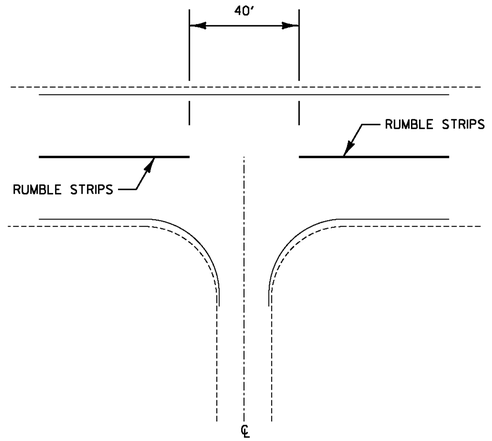
RUMBLE STRIP LAYOUT



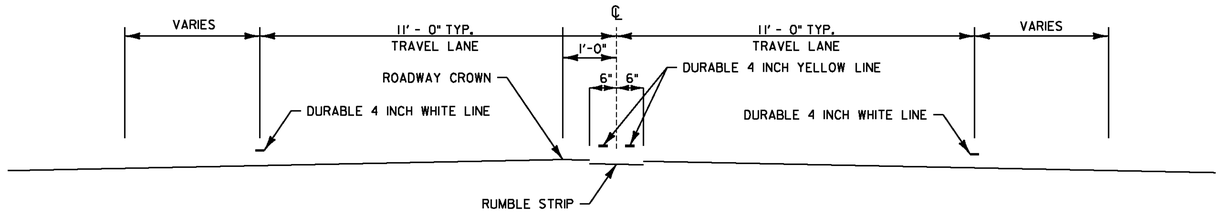
PAVEMENT MARKINGS DETAIL



RUMBLE STRIP DETAIL



INTERSECTION DETAIL



RUMBLE STRIP TYPICAL SECTION

U.S. ROUTE 5 ST. JOHNSBURY STA. 272+50 - LYNDON STA. 36+00
ST. JOHNSBURY STATE HIGHWAY STA. 0+58 - 54+96

RUMBLE STRIP ZONES

ZONE 1--ST. JOHNSBURY STA. 272+50 - 326+50
ZONE 2--ST. JOHNSBURY STA. 328+50 - 405+26
ZONE 3--LYNDON STA. 0+00 - 36+00

NOTES:

1. CENTERLINE RUMBLE STRIPS NOT TO EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. CENTERLINE RUMBLE STRIP TO BE PLACED ALONG CENTERLINE OF ROADWAY.
3. CENTERLINE RUMBLE STRIP TO STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.

NOTE: RUMBLE STRIP LOCATIONS SHOWN MAY BE SUBJECT TO CHANGE.

NOT TO SCALE

Stantec

CENTERLINE RUMBLE STRIP DETAIL SHEET

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262crsd.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 27 OF 133

NOT TO SCALE

BLANK

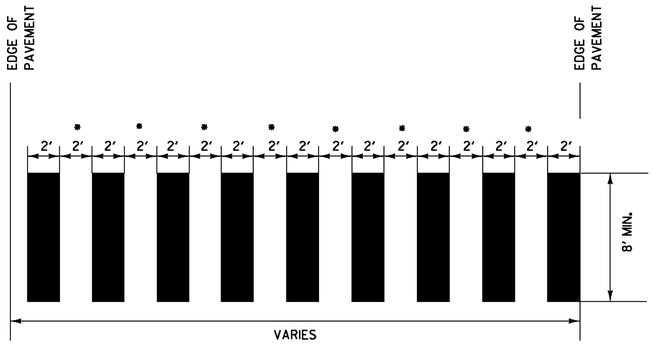
PROJECT NAME: ST. JOHNSBURY-LYNDON

PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262Blank.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 28 OF 133

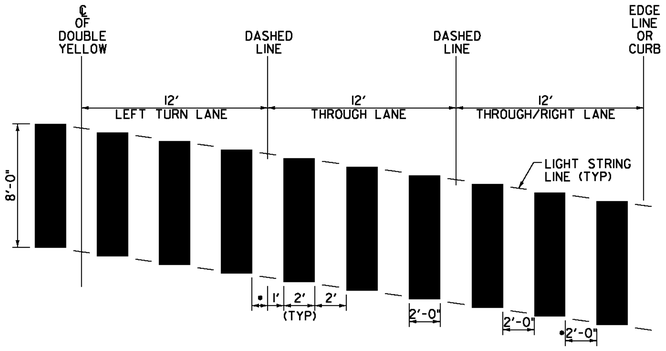
Stantec



• ADJUST SPACING (12"-24") TO AVOID WHEEL PATHS

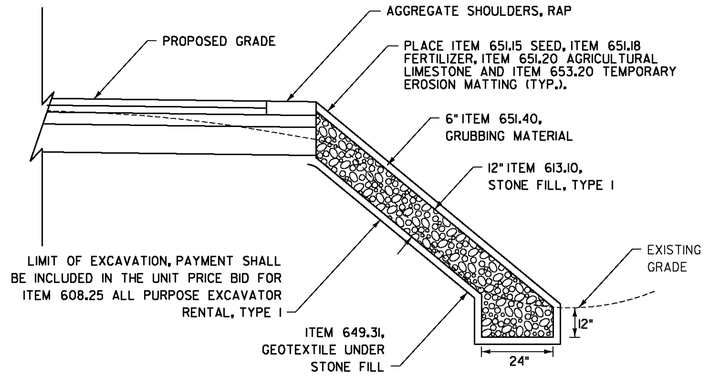
BLOCK PATTERN CROSSWALK DETAIL

SEE LAYOUT SHEETS 33-88 FOR LOCATIONS.
ALL BLOCK PATTERN CROSS WALKS SHALL BE INSTALLED PARALLEL WITH WHEEL PATHS.



SKEWED CROSSWALK PATTERN DETAIL

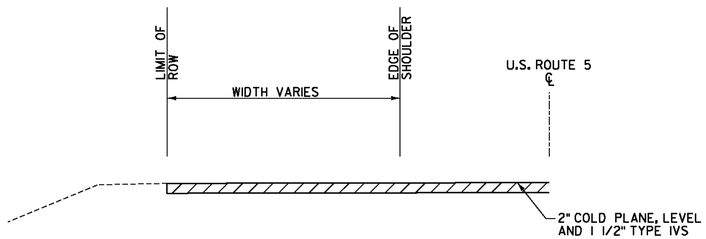
• MAY VARY WITH 11' OR 12' LANE



STONE FILL, TYPE I FOR SLOPE STABILIZATION DETAIL

NOTES:
1. STONE FILL TO BE PLACED ON SLOPES 1:1.5 OR STEEPER

U.S. ROUTE 5
ST. JOHNSBURY STA. 159+27 TO 159+43, LT
ST. JOHNSBURY STA. 166+78 TO 167+23, LT
ST. JOHNSBURY STA. 175+72 TO 175+97, LT
ST. JOHNSBURY STA. 188+86 TO 189+42, LT
ST. JOHNSBURY STA. 213+24 TO 214+22, LT
ST. JOHNSBURY STA. 214+75 TO 214+89, LT
ST. JOHNSBURY STA. 216+58 TO 217+17, LT
ST. JOHNSBURY STA. 324+27 TO 324+40, RT
ST. JOHNSBURY STA. 332+21 TO 332+36, RT
LYNDON STA. 15+87 TO 16+07, RT

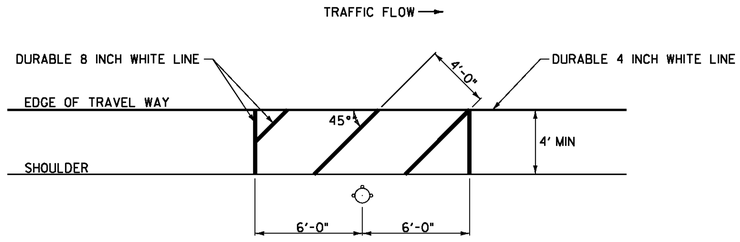


EXISTING PAVED PULL-OFF DETAIL IN COLD PLANE AREAS

U.S. ROUTE 5 ST. JOHNSBURY STA. 285+12, LT.
U.S. ROUTE 5 ST. JOHNSBURY STA. 334+48, RT.

PAVED PULL-OFF
NOTES:
1. GRADE EXISTING GRAVEL PULL-OFF AS NECESSARY TO PROVIDE A SMOOTH SURFACE OR AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE MADE UNDER ITEM 608.15 POWER GRADER RENTAL. ANY EXCAVATION REQUIRED, SHALL BE PAID AS ITEM 203.15 COMMON EXCAVATION.

2. AN ESTIMATED QUANTITY OF ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES) HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER WHERE THE PULL-OFFS TIE INTO U.S. ROUTE 5.



FIRE HYDRANT PAVEMENT MARKING DETAIL

U.S. ROUTE 5
ST. JOHNSBURY STA. 155+14, RT
ST. JOHNSBURY STA. 189+12, RT
ST. JOHNSBURY STA. 206+16, RT
ST. JOHNSBURY STA. 224+04, RT
ST. JOHNSBURY STA. 242+75, RT
ST. JOHNSBURY STA. 257+51, RT
ST. JOHNSBURY STA. 301+98, RT
ST. JOHNSBURY STA. 316+87, RT
ST. JOHNSBURY STA. 342+81, LT
ST. JOHNSBURY STA. 379+53, LT
LYNDON STA. 54+16, RT
LYNDON STA. 70+54, LT
LYNDON STA. 73+07, LT
LYNDON STA. 95+70, LT
LYNDON STA. 102+55, RT
LYNDON STA. 105+77, RT
LYNDON STA. 114+56, RT
LYNDON STA. 135+19, LT

NOTE:

THE CONTRACTOR SHALL ADJUST THE PLACEMENT OF THE FIRE HYDRANT PAVEMENT MARKINGS TO MEET THE EXISTING SITE CONSTRAINTS AS DIRECTED BY THE ENGINEER.

NOTE:
DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS.
SEE SHEETS 6-7

NOT TO SCALE

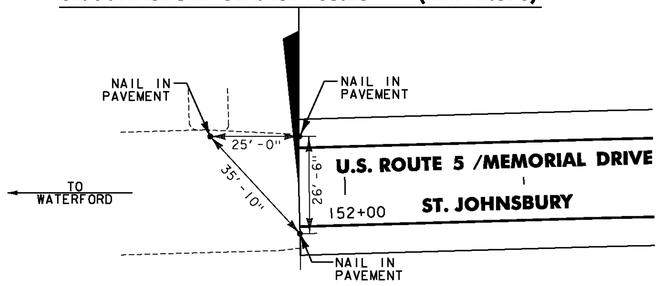
Stantec

MISCELLANEOUS DETAIL SHEET #1

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

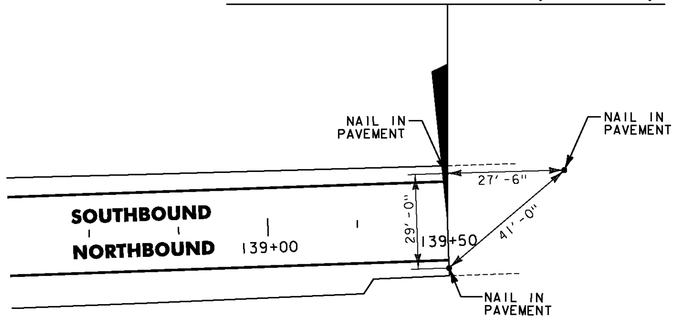
FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262md01.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 29 OF 133

BEGIN STP 2928(1) U.S. ROUTE 5
ST. JOHNSBURY STA. 151+85.28 = (MM 2.876)



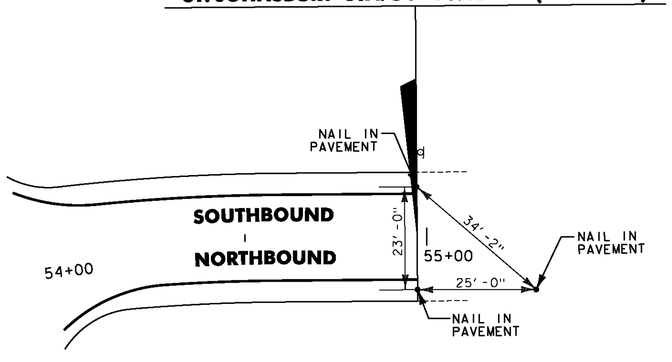
U.S. ROUTE 5 ST. JOHNSBURY BEGIN PROJECT LOCATION TIES

END STP 2928(1) U.S. ROUTE 5
LYNDON STA. 139+49.76 = (MM 2.642)

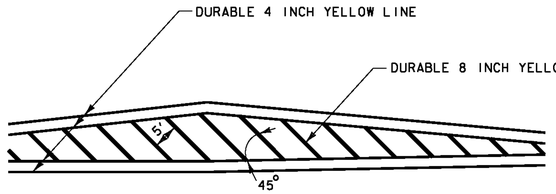


U.S. ROUTE 5 LYNDON END PROJECT LOCATION TIES

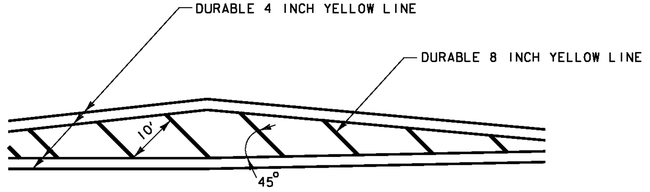
END STP 2928(1) ST. JOHNSBURY STATE HIGHWAY
ST. JOHNSBURY STA. 54+96.48 = (MM 1.041)



STATE HIGHWAY ST. JOHNSBURY END PROJECT LOCATION TIES

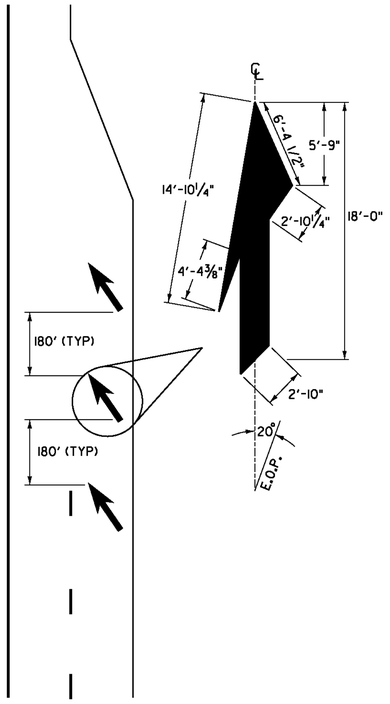


GORE MARKING DETAIL (5 FOOT)
LYNDON U.S. ROUTE 5 STA. 72+69 TO 73+08



GORE MARKING DETAIL (10 FOOT)

ST. JOHNSBURY U.S. ROUTE 5 STA. 188+81 TO 191+88
ST. JOHNSBURY U.S. ROUTE 5 STA. 194+55 TO 196+55
ST. JOHNSBURY U.S. ROUTE 5 STA. 252+33 TO 256+35
LYNDON U.S. ROUTE 5 STA. 70+05 TO 72+21
LYNDON U.S. ROUTE 5 STA. 74+87 TO 79+13
LYNDON U.S. ROUTE 5 STA. 82+78 TO 83+71
LYNDON U.S. ROUTE 5 STA. 93+84 TO 94+64
LYNDON U.S. ROUTE 5 STA. 114+38 TO 116+61
LYNDON U.S. ROUTE 5 STA. 117+97 TO 119+05



LANE REDUCTION TRANSITION MARKINGS
SEE SHEET 86 FOR LOCATIONS.

FIRST LANE REDUCTION ARROW SHALL BE PLACED OPPOSITE THE LAST DASH.
ARROWS TO BE PLACED EVERY 180'(MAX.) BETWEEN LAST DASH AND BEGINNING OF LANE TAPER.
ARROWS TO BE PAID AS ITEM 646.30.

NOT TO SCALE

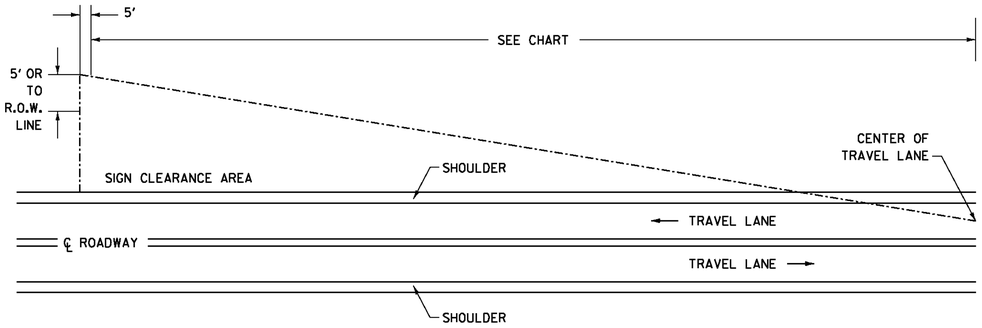
NOTE:
DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS.
SEE SHEETS 6-7

Stantec

MISCELLANEOUS DETAIL SHEET #2

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(1)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262md02.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 30 OF 133



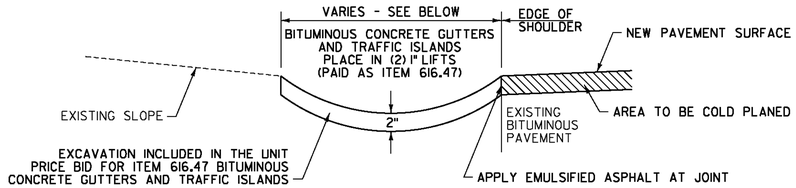
CLEARING LIMITS FOR SIGNS ON CONVENTIONAL ROADS

U.S. ROUTE 5
ST. JOHNSBURY STA. 320+03, LT
ST. JOHNSBURY STA. 323+75, LT
U.S. ROUTE 5
LYNDON STA. 56+54, RT

THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS, AND TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL OR AT LEAST 10 FEET BELOW THE BOTTOM OF THE SIGN. PAYMENT WILL BE FOR THINNING AND TRIMMING FOR SIGNS, ITEM 201.31, AND PAID FOR PER EACH. NO CHEMICALS (POISONS OR DEFOLIANTS) ALLOWED.

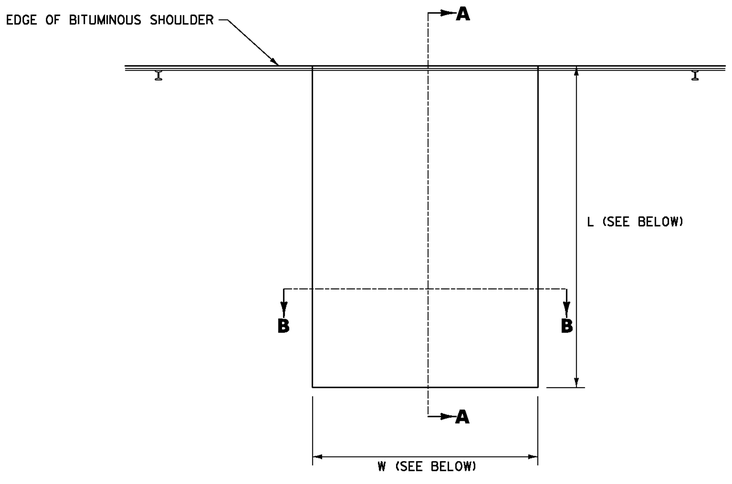
MINIMUM SIGN SIGHT DISTANCE CHART

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500
55	550



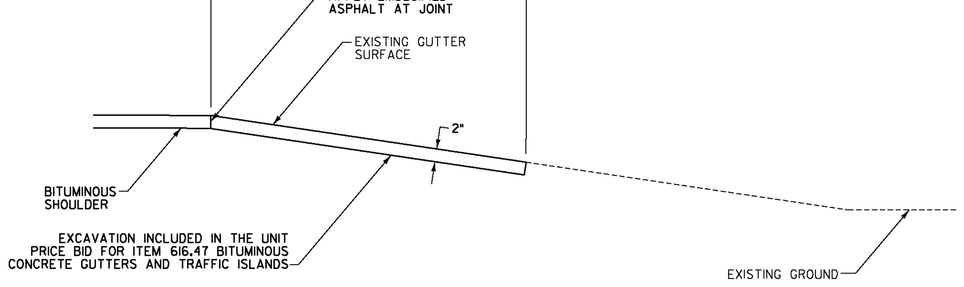
BITUMINOUS CONCRETE GUTTER DETAIL

U.S. ROUTE 5
LYNDON STA. 65+05 TO 67+49, LT (5' WIDE)
LYNDON STA. 67+49 TO 68+88, LT (VARIES, SEE SHEET 69)

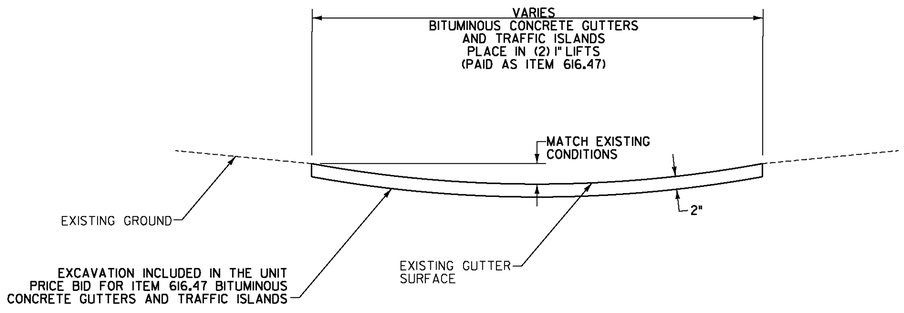


BITUMINOUS CONCRETE GUTTER DETAIL PLAN VIEW

U.S ROUTE 5
ST. JOHNSBURY STA. 180+21, RT (27' WIDE)
ST. JOHNSBURY STA. 256+47, RT (8' WIDE)
ST. JOHNSBURY STA. 257+20, RT (7' WIDE)
ST. JOHNSBURY STA. 257+45, RT (4' WIDE)
ST. JOHNSBURY STA. 351+49, LT (3' WIDE)
U.S. ROUTE 5
LYNDON STA. 87+95, LT (3' WIDE)



SECTION A–A



SECTION B–B

NOT TO SCALE

Stantec

MISCELLANEOUS DETAIL SHEET #3

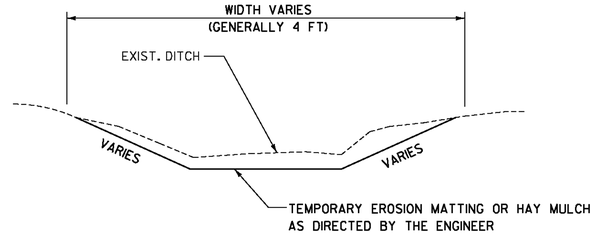
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262md03.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 31 OF 133

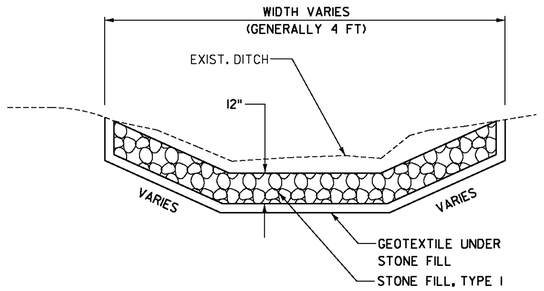
LOCATION				FEET OF DITCHING		MISCELLANEOUS ITEMS				REMARKS
						613.10	649.31	651.15	653.20	
SITE	STATION	STATION	POS.	PERCENT GRADE		STONE FILL, TYPE I	GEOT. UNDER STONE FILL	SEED	TEMP. EROS. MATT.	
				0-2.5	≥2.5	CY	SY	LB	SY	
U.S. ROUTE 5										
ST. JOHNSBURY										
1	249+70	256+32	RT	662				5	294	
2	257+34	262+00	RT	466				3	207	
3	296+80	302+50	LT	570				4	253	
4	302+50	306+50	LT		400	59	267			
5	311+50	316+20	LT	470				3	209	
6	316+80	317+10	LT		30	4	20			
7	317+10	319+30	LT	220				2	98	
8	319+30	323+50	LT		420	62	280			
9	323+50	326+00	LT	250				2	111	
10	327+30	330+90	LT	360				3	160	
11	330+90	332+45	LT		155	23	103			
12	332+45	336+25	LT	380				3	169	
13	336+85	338+25	LT	140				1	62	
14	369+55	375+00	RT		545	81	363			
15	375+00	384+10	RT	910				7	404	
16	384+10	386+15	RT		205	30	137			
SUBTOTALS				4428	1755	259	1170	33	1967	
TOTALS				4428	1755	259*	1170*	33	1967*	

LOCATION				FEET OF DITCHING		MISCELLANEOUS ITEMS				REMARKS
						613.10	649.31	651.15	653.20	
SITE	STATION	STATION	POS.	PERCENT GRADE		STONE FILL, TYPE I	GEOT. UNDER STONE FILL	SEED	TEMP. EROS. MATT.	
				0-2.5	≥2.5	CY	SY	LB	SY	

*TOTALS CARRIED FORWARD TO THE ITEM DETAIL SUMMARY SHEET.
(SEE SHEETS 9-14)



DITCH DETAIL 0 – 2.5 PERCENT



DITCH DETAIL ≥ 2.5 PERCENT

NOTES:

1. PIPE INLET AND OUTLET AREAS AND DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS IDENTIFIED ON THIS SHEET AND AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).

2. GRADES BETWEEN 0 AND 2.5 PERCENT SHALL USE ITEM 651.15, SEED AND EITHER ITEM 651.25, HAY MULCH OR ITEM 653.20, TEMPORARY EROSION MATTING AS DIRECTED BY THE ENGINEER. GRADES 2.5 PERCENT OR GREATER SHALL USE ITEM 649.31, GEOTEXTILE UNDER STONE FILL AND ITEM 613.10, STONE FILL TYPE I AS DIRECTED BY THE ENGINEER.

NOT TO SCALE

Stantec

DITCH CLEANING DETAIL SHEET

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262dcs.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 32 OF 133

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 152+09, RT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 154+69.0 TO 156+00.0, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 154+69, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 154+69.0 TO 156+00.0, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 151+85.28 TO 156+00, SOLID LT & RT

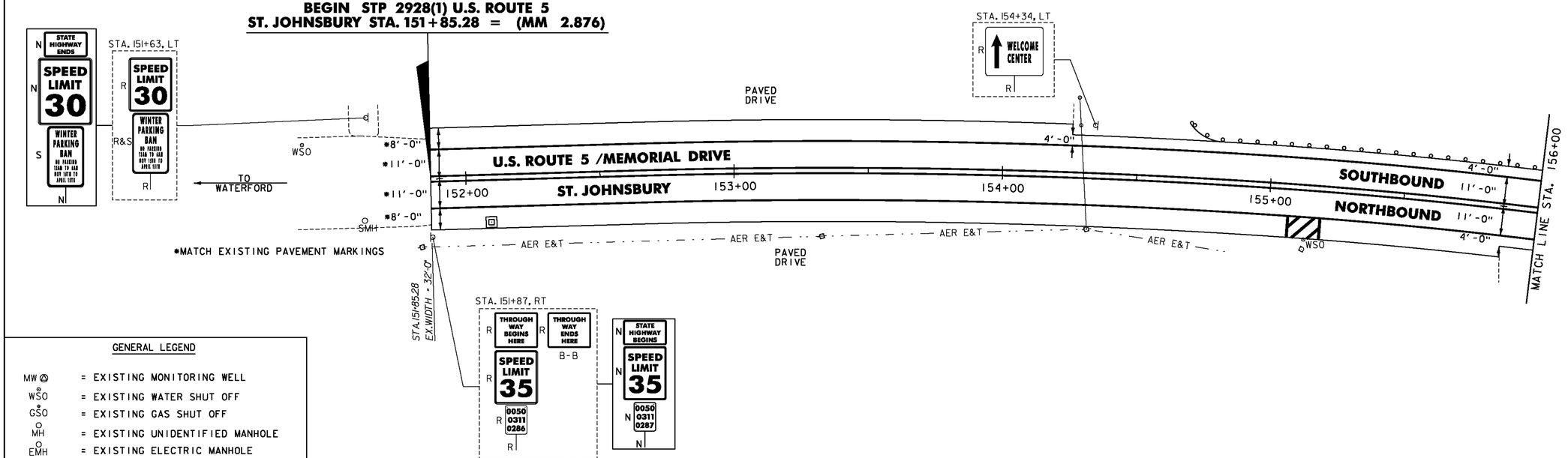
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 151+85.28 TO 156+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 155+07 TO 155+19, RT (HYDRANT)
SEE DETAIL ON SHEET 29

REMOVING SIGNS
AS SHOWN - 7

ERECTING SALVAGED SIGNS
AS SHOWN - 1

BEGIN STP 2928(1) U.S. ROUTE 5
ST. JOHNSBURY STA. 151+85.28 = (MM 2.876)



GENERAL LEGEND

- MW = EXISTING MONITORING WELL
- WSO = EXISTING WATER SHUT OFF
- GSO = EXISTING GAS SHUT OFF
- MH = EXISTING UNIDENTIFIED MANHOLE
- EMH = EXISTING ELECTRIC MANHOLE
- TMH = EXISTING TELEPHONE MANHOLE
- SMH = EXISTING SEWER MANHOLE
- = PROPOSED TRUNCATED DOMES
- = EXISTING TRUNCATED DOMES
- = EXISTING HYDRANT
- = EXISTING VEHICLE SIGNAL HEADS
- = REHABILITATED DI
- = EXISTING DI
- = EXISTING UTILITY POLE
- = EXISTING UTILITY POLE W/ GUY WIRE
- = PROPOSED GUARDRAIL
- = EXISTING GUARDRAIL
- = EXISTING BRIDGE RAIL
- = EXISTING PIPE
- = EXISTING HEADWALL
- = EXISTING LIGHT POLE
- = EXISTING BRIDGE SCUPPERS
- = EXISTING MAILBOX
- PB = EXISTING PULL BOX
- CT = EXISTING CONTROLLER
- = SINGLE SIGN POST - SINGLE SIGN
- = SINGLE SIGN POST - MULTIPLE SIGNS
- = DOUBLE SIGN POST
- = EXISTING TREE
- = EXISTING TREE LINE
- = EDGE OF WATER
- = EXISTING LEDGE
- = EXISTING FENCE
- AER E&T = EXISTING AERIAL ELECTRIC & TELEPHONE WIRE
- UE = EXISTING UNDERGROUND ELECTRIC
- = EXISTING RAILROAD
- = EXISTING RAILROAD SIGNAL POLE

STONE FILL, TYPE I
STA. 159+27 TO 159+43, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 156+00 TO 160+00, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 156+00 TO 160+00, LT

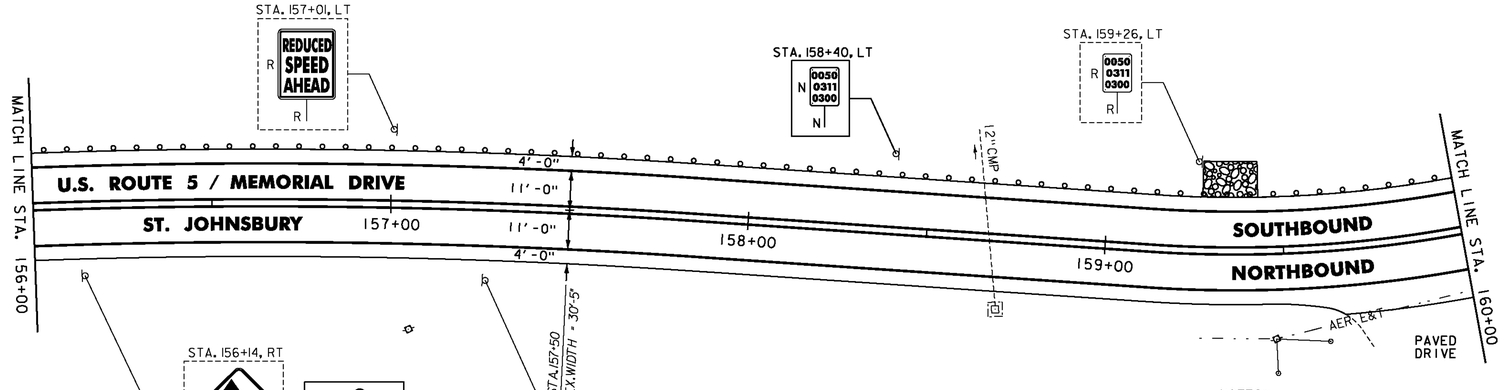
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 156+00 TO 160+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 156+00 TO 160+00, SOLID LT & RT

GEOTEXTILE UNDER STONE FILL
STA. 159+27 TO 159+43, LT

GRUBBING MATERIAL
STA. 159+27 TO 159+43, LT

REMOVING SIGNS
AS SHOWN - 7



NOTES:

1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

SIGN LEGEND

- N = NEW
- R = REMOVE
- R&S = REMOVE & SALVAGE
- S = SALVAGED SIGN
- RET = RETAIN
- B-B = BACK TO BACK

PROPOSED STONE FILL, TYPE I AREAS
SEE SHEET 29 FOR DETAIL

Stantec

PROJECT LAYOUT SHEET #1

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262101.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 33 OF 133

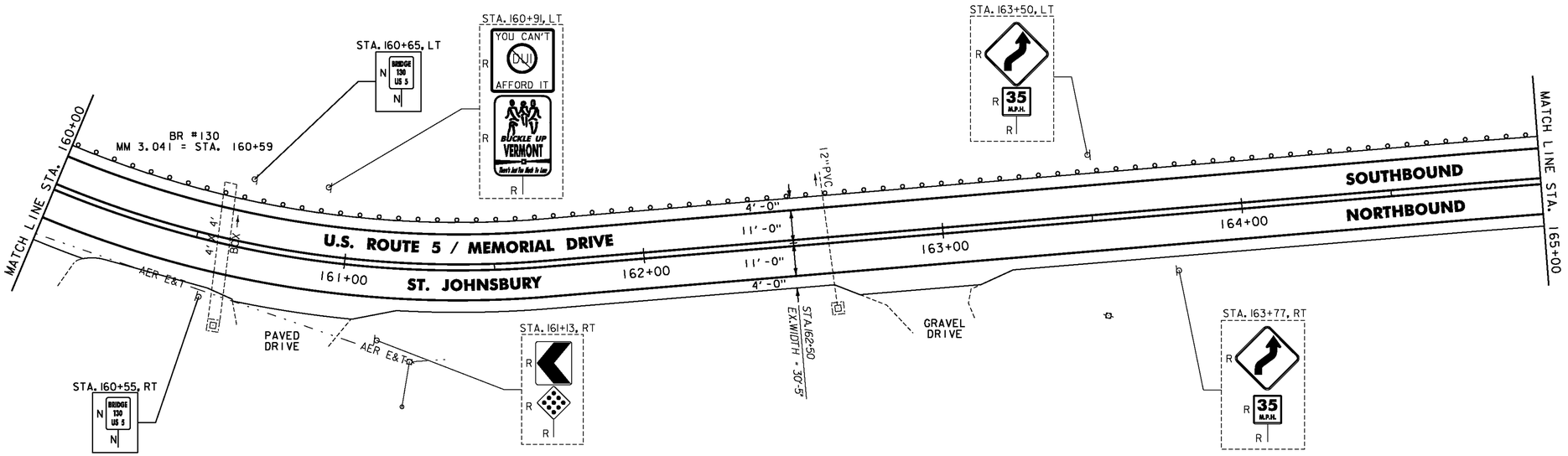
STEEL BEAM GUARDRAIL, GALVANIZED
STA. 160+00 TO 165+00, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 160+00 TO 165+00, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 160+00 TO 165+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 160+00 TO 165+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 8



STONE FILL, TYPE I
STA. 166+78 TO 167+23, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 165+00 TO 168+48, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 168+48, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 165+00 TO 168+42, LT

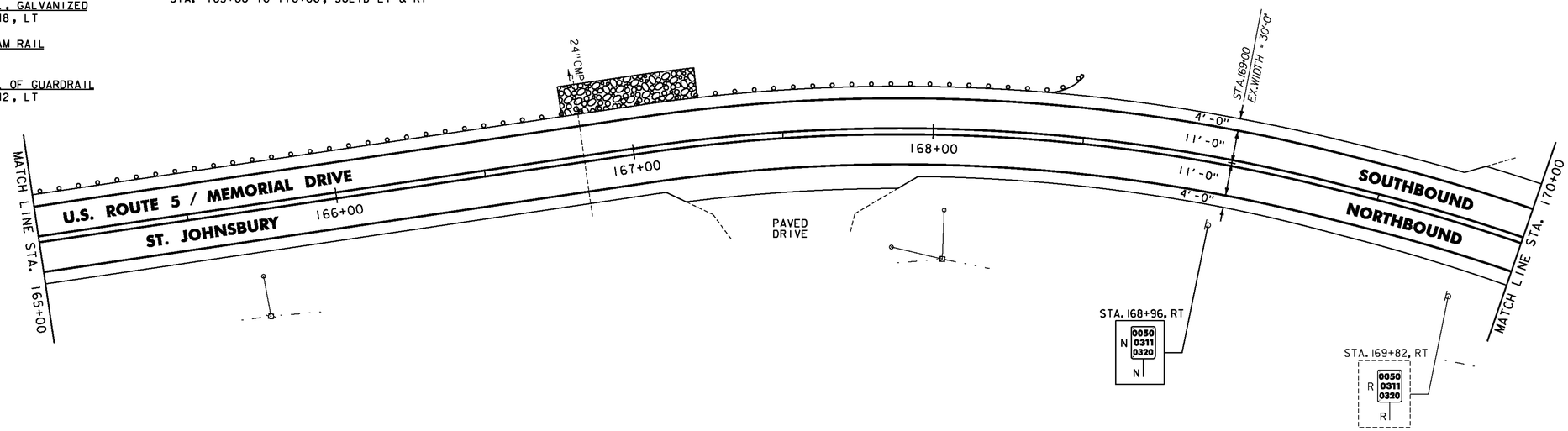
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 165+00 TO 170+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 165+00 TO 170+00, SOLID LT & RT

GEOTEXTILE UNDER STONE FILL
STA. 166+78 TO 167+23, LT

GRUBBING MATERIAL
STA. 166+78 TO 167+23, LT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #2

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262102.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 34 OF 133

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 172+70 TO 175+00, LT

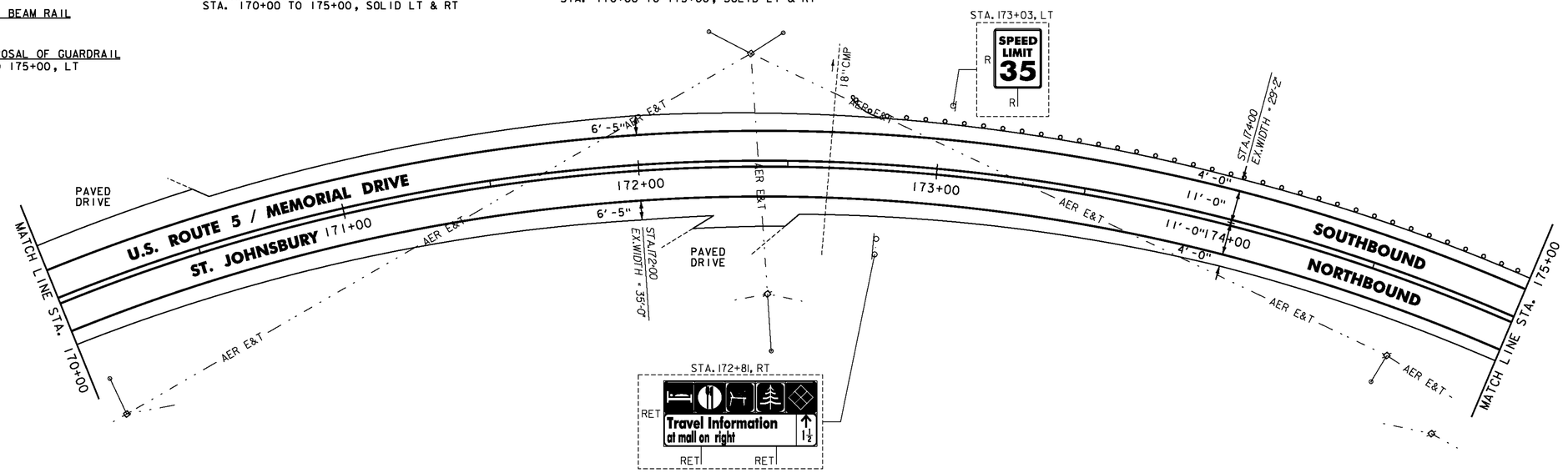
ANCHOR FOR STEEL BEAM RAIL
STA. 172+70, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 172+71.5 TO 175+00, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 170+00 TO 175+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 170+00 TO 175+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



RELOCATE MAILBOX, SINGLE SUPPORT
STA. 178+50, RT

STONE FILL, TYPE I
STA. 175+72 TO 175+97, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 175+00 TO 175+76, LT
STA. 176+01 TO 180+00, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 175+00 TO 180+00, LT

HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED
STA. 175+76 TO 176+01, LT

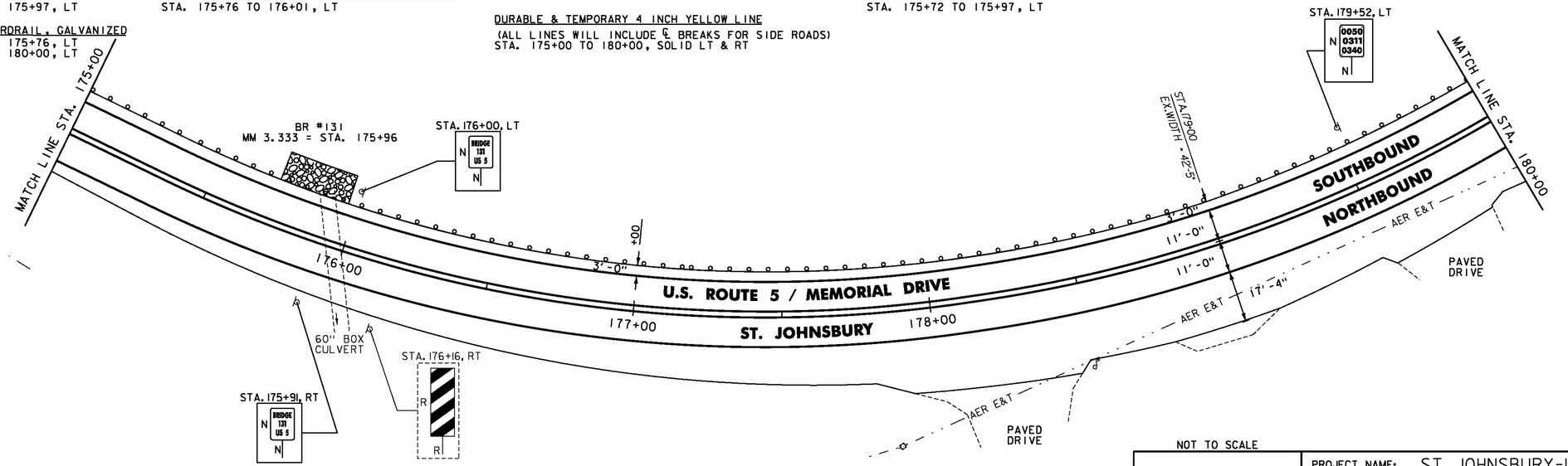
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 175+00 TO 180+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 175+00 TO 180+00, SOLID LT & RT

GEOTEXTILE UNDER STONE FILL
STA. 175+72 TO 175+97, LT

GRUBBING MATERIAL
STA. 175+72 TO 175+97, LT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #3

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I03.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 35 OF 133

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 180+21, RT
FOR DETAIL, SEE SHEET 31

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 180+00 TO 182+18, LT

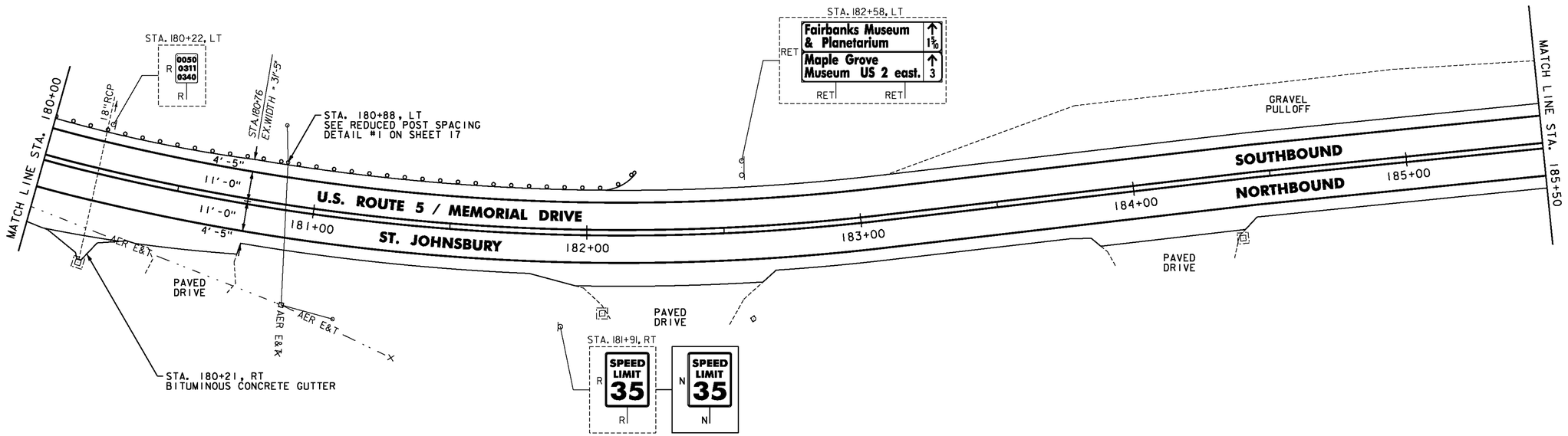
ANCHOR FOR STEEL BEAM RAIL
STA. 182+18, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 180+00 TO 182+19.5, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 180+00 TO 185+50, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 180+00 TO 185+50, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2



STONE FILL, TYPE I
STA. 188+86 TO 189+42, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 187+41.5 TO 190+50, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 187+41.5, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 187+41.5 TO 190+50, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 185+50 TO 190+50, SOLID LT & RT
STA. 190+32 TO 190+50, DOTTED ℄

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 185+50 TO 188+81, SOLID LT & RT
STA. 188+81 TO 190+50, DOUBLE SOLID LT & RT

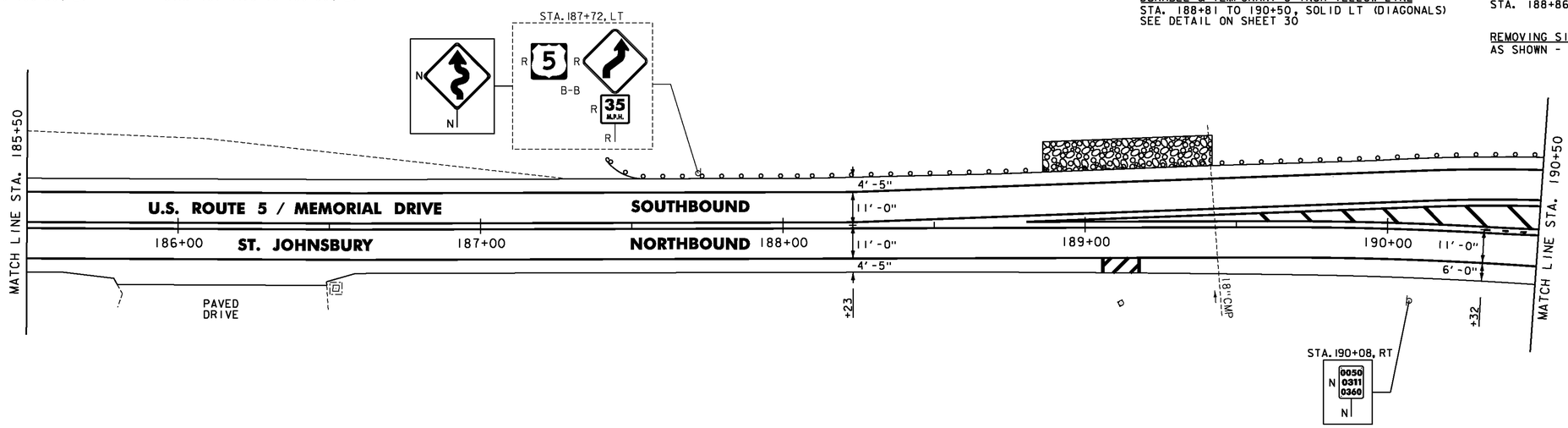
DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 189+06 TO 189+18, SOLID RT (HYDRANT)
SEE DETAIL ON SHEET 29

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 188+81 TO 190+50, SOLID LT (DIAGONALS)
SEE DETAIL ON SHEET 30

GEOTEXTILE UNDER STONE FILL
STA. 188+86 TO 189+42, LT

GRUBBING MATERIAL
STA. 188+86 TO 189+42, LT

REMOVING SIGNS
AS SHOWN - 3



NOT TO SCALE

NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

Stantec

PROJECT LAYOUT SHEET #4

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262104.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 36 OF 133

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 190+50 TO 193+86, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 193+86, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 190+50 TO 193+86, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 190+50 TO 196+00, SOLID LT & RT
STA. 190+50 TO 192+57, DOTTED RT
STA. 192+57 TO 194+21, SOLID ℄ (LANE LINE)
STA. 195+08 TO 196+00, DOTTED ℄

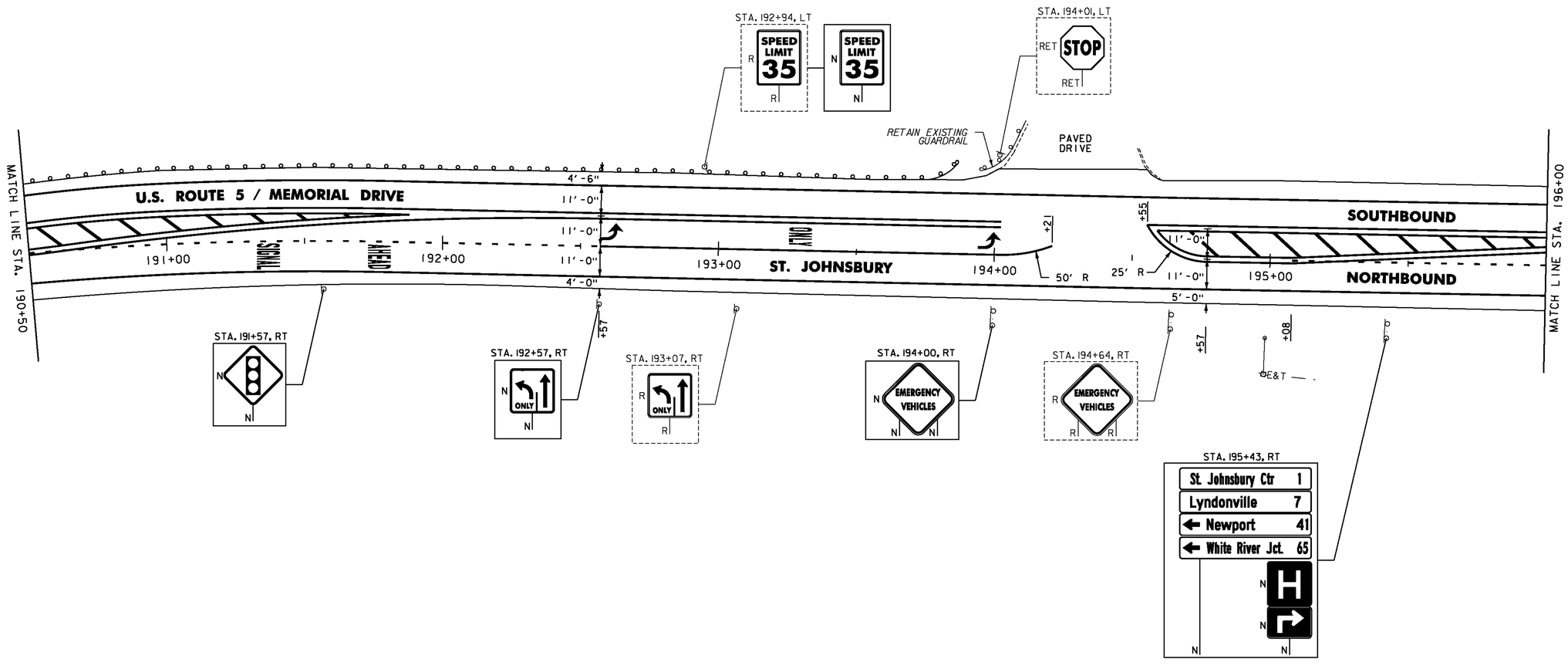
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 190+50 TO 191+88, DOUBLE SOLID LT & RT
STA. 191+88 TO 194+02, DOUBLE SOLID LT
STA. 194+55 TO 195+08, DOUBLE SOLID LT & RT
STA. 195+08 TO 196+00, DOUBLE SOLID LT

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 190+50 TO 191+88, SOLID LT (DIAGONALS)
SEE DETAIL ON SHEET 30
STA. 194+55 TO 196+00, SOLID LT (DIAGONALS)
SEE DETAIL ON SHEET 30

DURABLE LETTER OR SYMBOL
STA. 191+37, RT "SIGNAL"
STA. 191+77, RT "AHEAD"
STA. 192+61, LT ARROW
STA. 193+30, LT "ONLY"
STA. 193+98, LT ARROW

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 191+37, RT "SIGNAL"
STA. 191+77, RT "AHEAD"
STA. 192+61, LT ARROW
STA. 193+98, LT ARROW

REMOVING SIGNS
AS SHOWN - 3



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #5

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262105.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 37 OF 133

MILLED RUMBLE STRIPS
ST. JOHNSBURY STATE HIGHWAY
STA. 0+58 TO 1+00, LT

REHAB. DIs, CBs OR MHs, CLASS I OR II
U.S. ROUTE 5 STA. 198+57, RT
U.S. ROUTE 5 STA. 198+61, LT

CHANGING ELEVATION OF SEWER MANHOLES
U.S. ROUTE 5 STA. 198+63, RT

ADJUST ELEVATION OF VALVE BOX
U.S. ROUTE 5 STA. 198+56, RT
U.S. ROUTE 5 STA. 198+68, RT
U.S. ROUTE 5 STA. 198+76, RT

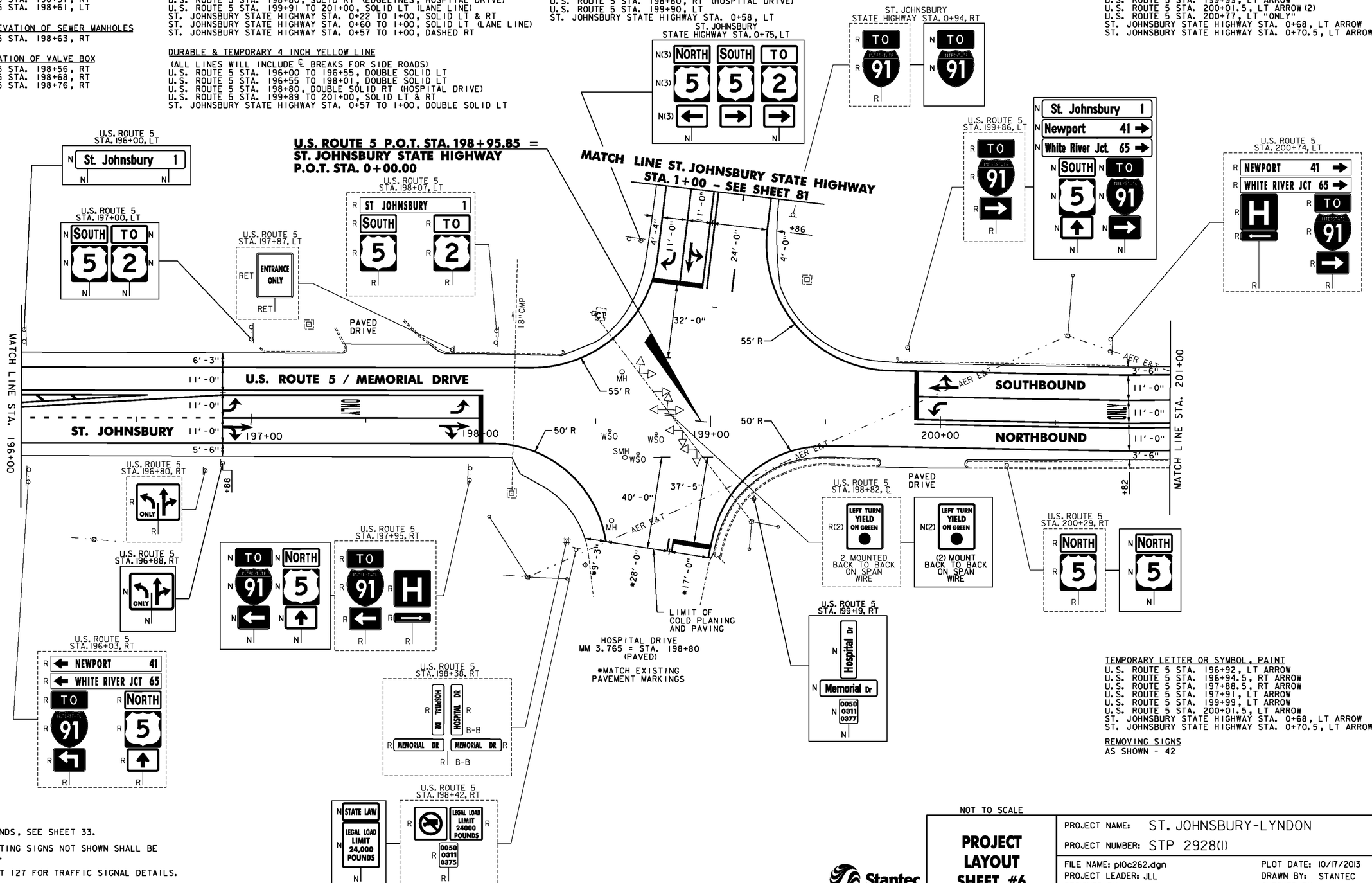
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
U.S. ROUTE 5 STA. 196+00 TO 201+00, SOLID LT & RT
U.S. ROUTE 5 STA. 196+00 TO 196+88, DOTTED ℄
U.S. ROUTE 5 STA. 196+88 TO 197+99, SOLID ℄ (LANE LINE)
U.S. ROUTE 5 STA. 198+80, SOLID RT (EDGELINES, HOSPITAL DRIVE)
U.S. ROUTE 5 STA. 199+91 TO 201+00, SOLID LT (LANE LINE)
ST. JOHNSBURY STATE HIGHWAY STA. 0+22 TO 1+00, SOLID LT & RT
ST. JOHNSBURY STATE HIGHWAY STA. 0+60 TO 1+00, SOLID LT (LANE LINE)
ST. JOHNSBURY STATE HIGHWAY STA. 0+57 TO 1+00, DASHED RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
U.S. ROUTE 5 STA. 196+00 TO 196+55, DOUBLE SOLID LT
U.S. ROUTE 5 STA. 196+55 TO 198+01, DOUBLE SOLID LT
U.S. ROUTE 5 STA. 198+80, DOUBLE SOLID RT (HOSPITAL DRIVE)
U.S. ROUTE 5 STA. 199+89 TO 201+00, SOLID LT & RT
ST. JOHNSBURY STATE HIGHWAY STA. 0+57 TO 1+00, DOUBLE SOLID LT

DURABLE & TEMPORARY 8 INCH YELLOW LINE
U.S. ROUTE 5 STA. 196+00 TO 196+55, SOLID LT (DIAGONALS)
SEE DETAIL ON SHEET 30

DURABLE & TEMPORARY 24 INCH STOP BAR
U.S. ROUTE 5 STA. 198+00, LT-RT
U.S. ROUTE 5 STA. 198+80, RT (HOSPITAL DRIVE)
U.S. ROUTE 5 STA. 199+90, LT
ST. JOHNSBURY STATE HIGHWAY STA. 0+58, LT

DURABLE LETTER OR SYMBOL
U.S. ROUTE 5 STA. 196+92, LT ARROW
U.S. ROUTE 5 STA. 196+94.5, RT ARROW (2)
U.S. ROUTE 5 STA. 197+43, LT "ONLY"
U.S. ROUTE 5 STA. 197+88.5, RT ARROW (2)
U.S. ROUTE 5 STA. 197+91, LT ARROW
U.S. ROUTE 5 STA. 199+99, LT ARROW
U.S. ROUTE 5 STA. 200+01.5, LT ARROW (2)
U.S. ROUTE 5 STA. 200+77, LT "ONLY"
ST. JOHNSBURY STATE HIGHWAY STA. 0+68, LT ARROW
ST. JOHNSBURY STATE HIGHWAY STA. 0+70.5, LT ARROW (2)



TEMPORARY LETTER OR SYMBOL, PAINT
U.S. ROUTE 5 STA. 196+92, LT ARROW
U.S. ROUTE 5 STA. 196+94.5, RT ARROW
U.S. ROUTE 5 STA. 197+88.5, RT ARROW
U.S. ROUTE 5 STA. 197+91, LT ARROW
U.S. ROUTE 5 STA. 199+99, LT ARROW
U.S. ROUTE 5 STA. 200+01.5, LT ARROW
ST. JOHNSBURY STATE HIGHWAY STA. 0+68, LT ARROW
ST. JOHNSBURY STATE HIGHWAY STA. 0+70.5, LT ARROW

REMOVING SIGNS
AS SHOWN - 42

NOTES:
1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. SEE SHEET 127 FOR TRAFFIC SIGNAL DETAILS.
4. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #6

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262106.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 38 OF 133

REHAB. Dis, CBs OR MHs, CLASS I OR II
STA. 201+15, LT

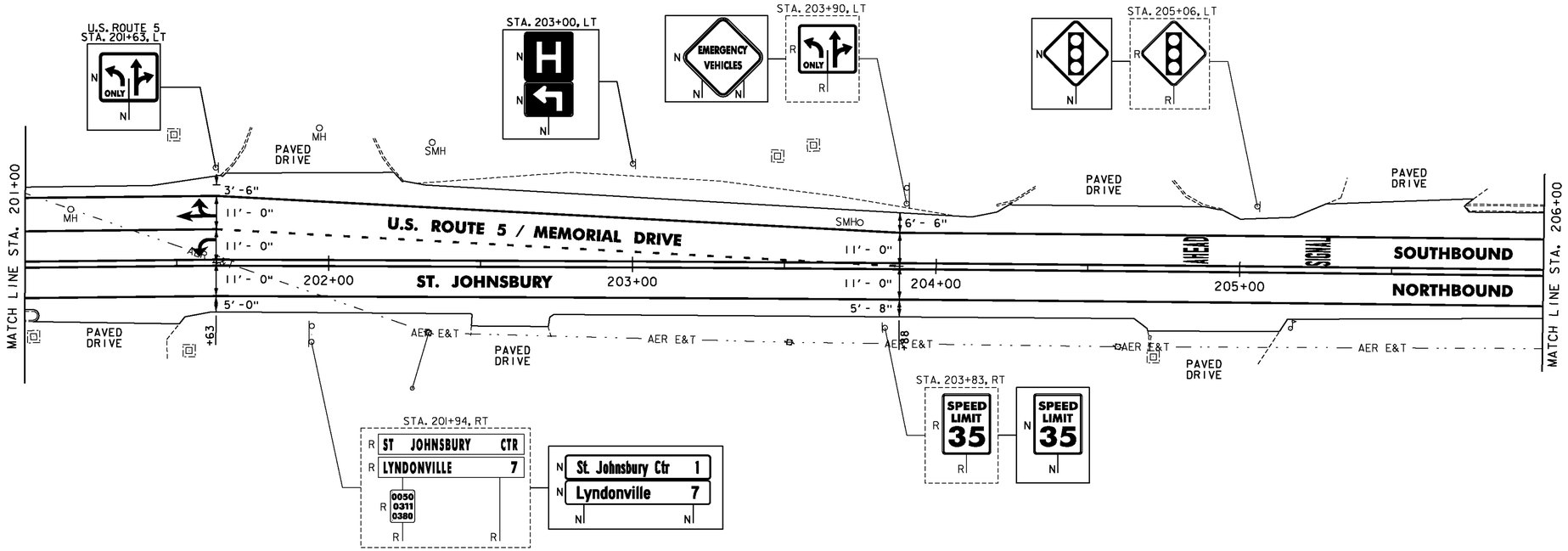
CHANGING ELEVATION OF SEWER MANHOLES
STA. 203+75, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 201+00 TO 206+00, SOLID LT & RT
STA. 201+00 TO 201+63, SOLID LT (LANE LINE)
STA. 201+63 TO 203+88, DOTTED LT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 201+00 TO 206+00, SOLID LT & RT

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 201+56.5, LT ARROW (2)
STA. 201+59, LT ARROW
STA. 204+86, LT "AHEAD"
STA. 205+26, LT "SIGNAL"

REMOVING SIGNS
AS SHOWN - 6



REHAB. Dis, CBs OR MHs, CLASS I OR II
STA. 211+05, RT

CHANGING ELEVATION OF SEWER MANHOLES
STA. 206+10, LT
STA. 207+92, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 208+70 TO 211+25, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 208+70, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 208+70 TO 211+25, LT

ADJUST ELEVATION OF VALVE BOX
STA. 206+26, RT
STA. 208+30, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 206+00 TO 211+25, SOLID LT & RT

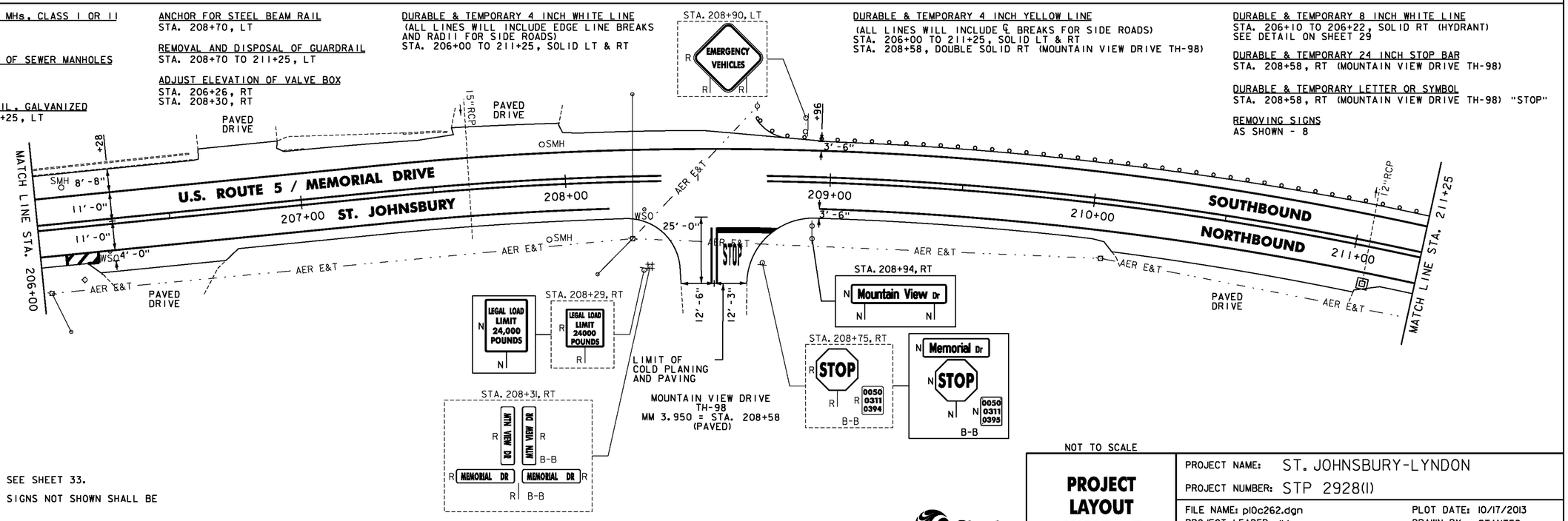
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 206+00 TO 211+25, SOLID LT & RT
STA. 208+58, DOUBLE SOLID RT (MOUNTAIN VIEW DRIVE TH-98)

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 206+10 TO 206+22, SOLID RT (HYDRANT)
SEE DETAIL ON SHEET 29

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 208+58, RT (MOUNTAIN VIEW DRIVE TH-98)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 208+58, RT (MOUNTAIN VIEW DRIVE TH-98) "STOP"

REMOVING SIGNS
AS SHOWN - 8



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #7

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262107.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 39 OF 133

STONE FILL, TYPE I
STA. 213+24 TO 214+22, LT
STA. 214+75 TO 214+89, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 211+25 TO 216+00, LT
STA. 214+50.5 TO 215+33.5, RT

ANCHOR FOR STEEL BEAM RAIL
STA. 214+50.5, RT
STA. 215+33.5, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 211+25 TO 216+00, LT
STA. 214+50.5 TO 215+33.5, RT

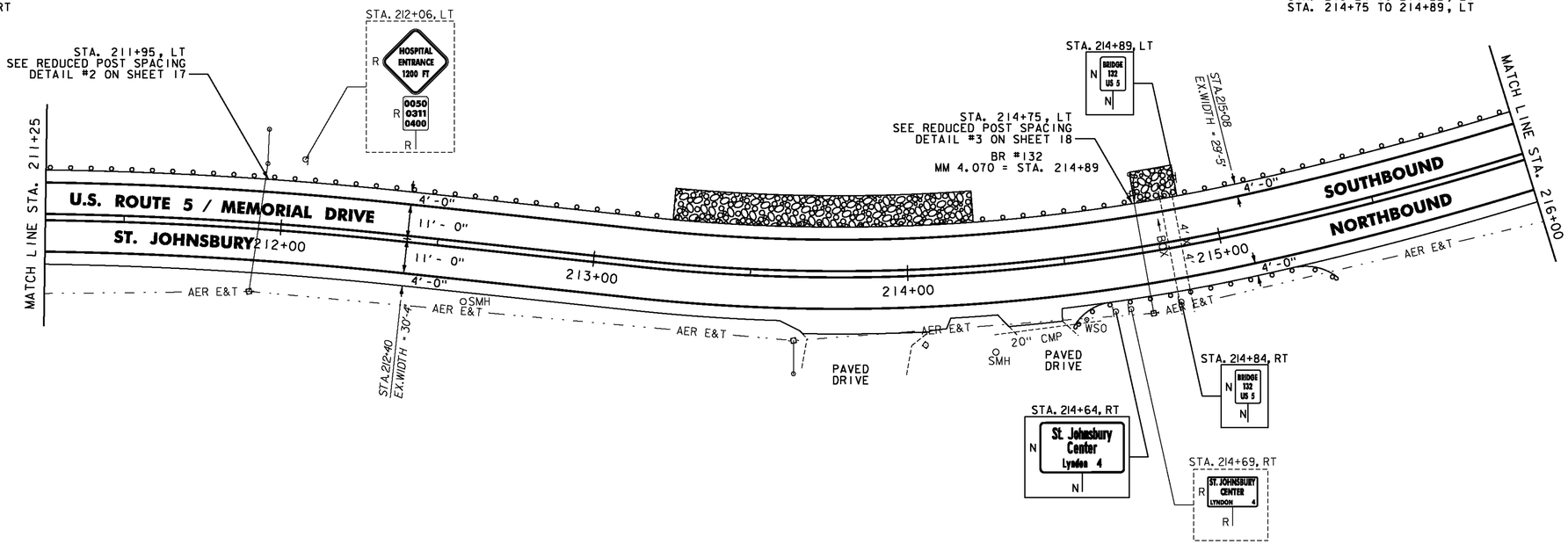
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 211+25 TO 216+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 211+25 TO 216+00, SOLID LT & RT

GEOTEXTILE UNDER STONE FILL
STA. 213+24 TO 214+22, LT
STA. 214+75 TO 214+89, LT

GRUBBING MATERIAL
STA. 213+24 TO 214+22, LT
STA. 214+75 TO 214+89, LT

REMOVING SIGNS
AS SHOWN - 3



STONE FILL, TYPE I
STA. 216+58 TO 217+17, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 216+00 TO 218+20.5, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 218+20.5, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 216+00 TO 218+20.5, LT

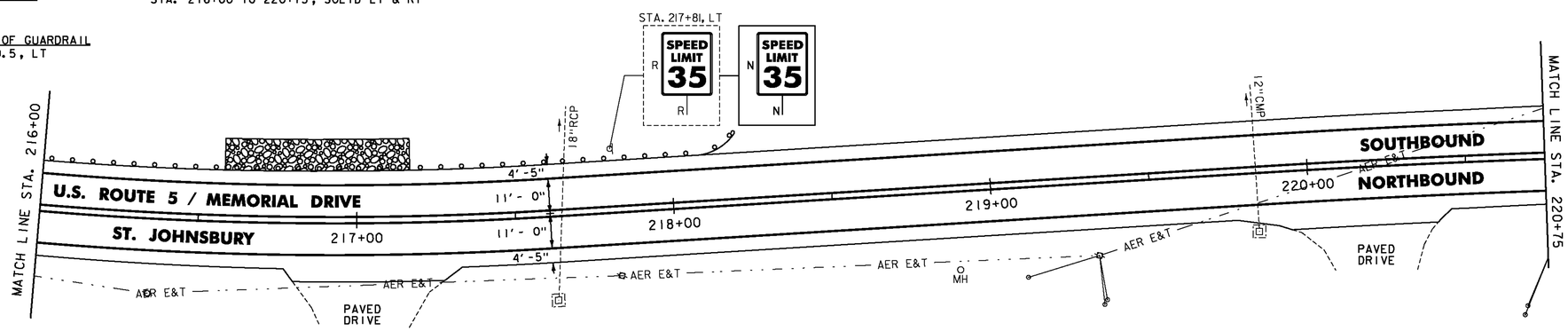
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 216+00 TO 220+75, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 216+00 TO 220+75, SOLID LT & RT

GEOTEXTILE UNDER STONE FILL
STA. 216+58 TO 217+17, LT

GRUBBING MATERIAL
STA. 216+58 TO 217+17, LT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #8

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262108.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 40 OF 133

REHAB. Dis. CBs OR MHs. CLASS I OR II
STA. 222+20, RT
STA. 224+55, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 220+75 TO 225+75, SOLID LT & RT

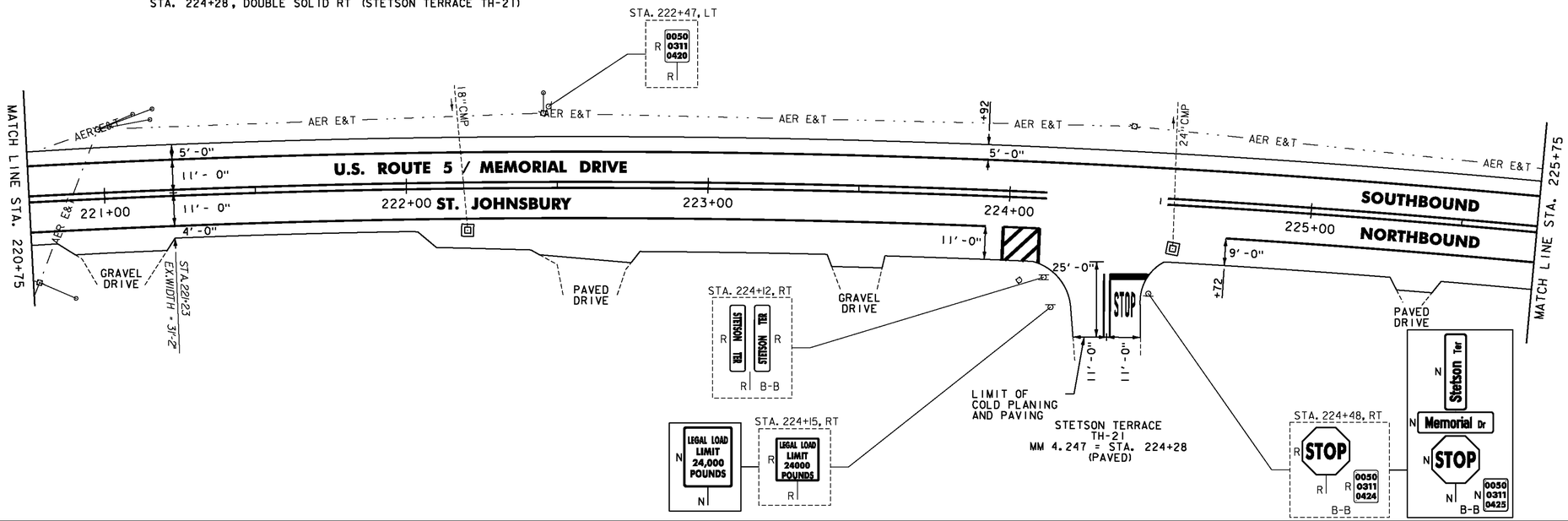
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 220+75 TO 225+75, SOLID LT & RT
STA. 224+28, DOUBLE SOLID RT (STETSON TERRACE TH-21)

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 223+98 TO 224+10, SOLID RT (HYDRANT)
SEE DETAIL ON SHEET 29

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 224+28, RT (STETSON TERRACE TH-21)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 224+28, RT (STETSON TERRACE TH-21) "STOP"

REMOVING SIGNS
AS SHOWN - 6



REHAB. Dis. CBs OR MHs. CLASS I OR II
STA. 226+82, RT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 227+95 TO 230+00, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 227+95, LT

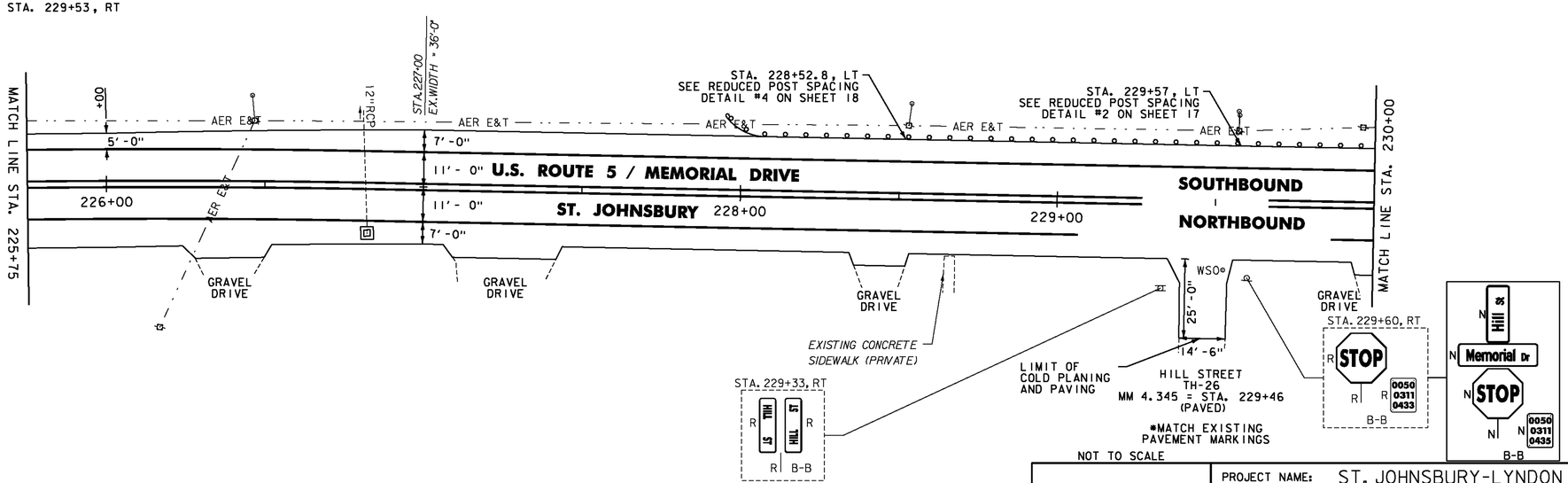
REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 227+95 TO 230+00, LT

ADJUST ELEVATION OF VALVE BOX
STA. 229+53, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 225+75 TO 230+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 225+75 TO 230+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 4



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #9

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262109.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 41 OF 133

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 230+00 TO 231+45, LT
STA. 232+20 TO 232+57, LT

HD STEEL BEAM GUARDRAIL, GALVANIZED
STA. 231+45 TO 231+65, LT
STA. 231+95 TO 232+20, LT
(FOR DETAIL, SEE SHEET 21)

ANCHOR FOR STEEL BEAM RAIL
STA. 232+57, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 230+00 TO 231+65, LT
STA. 231+94 TO 232+57, LT

4 INCH WHITE LINE
STA. 231+84, SOLID LT (EDGELINES, DEPOT HILL RD TH-85)

4 INCH YELLOW LINE
STA. 231+84, DOUBLE SOLID LT (DEPOT HILL RD TH-85)

24 INCH STOP BAR
STA. 231+84, LT (DEPOT HILL RD)

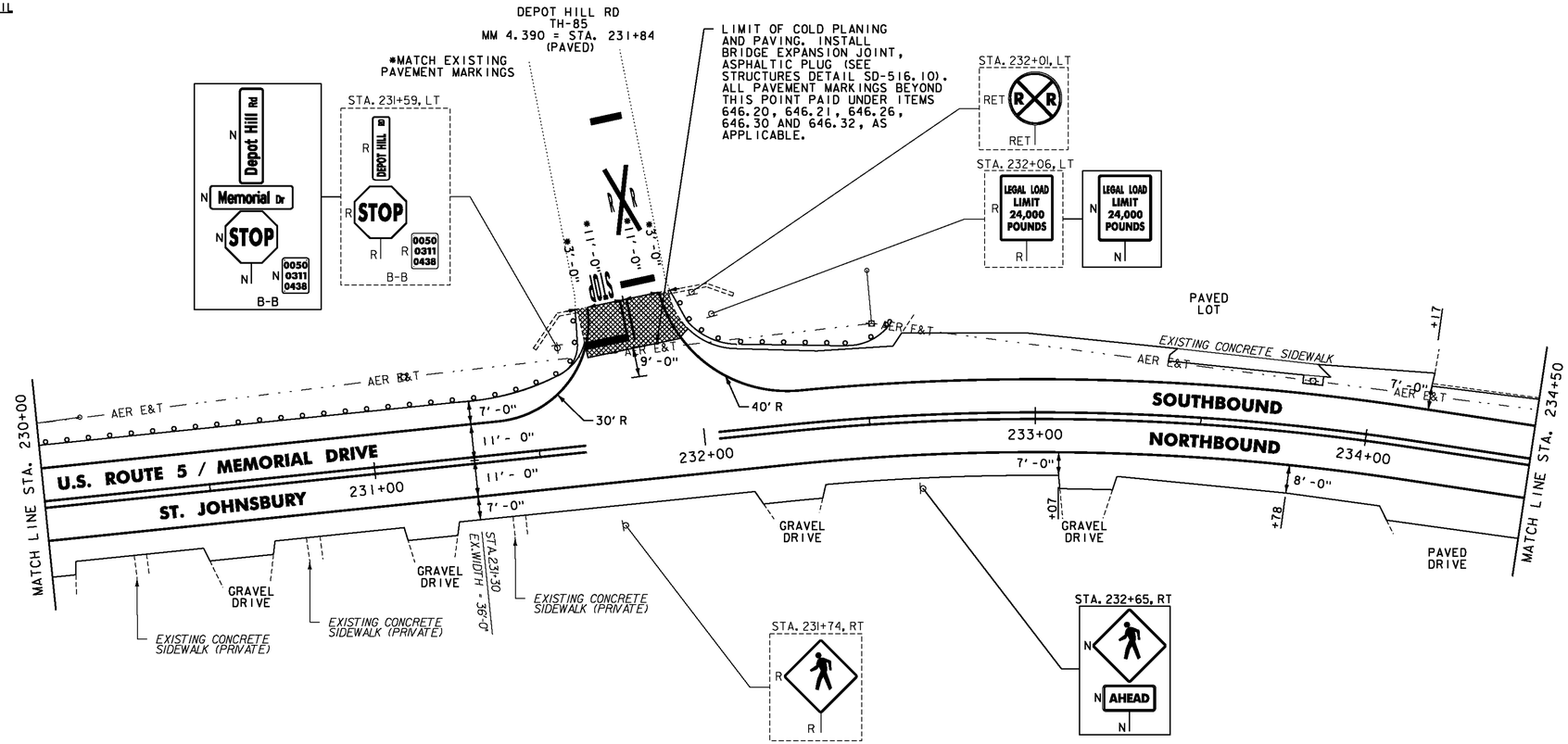
LETTER OR SYMBOL
STA. 231+84, LT "STOP" (DEPOT HILL RD)

RAILROAD CROSSING SYMBOL
STA. 231+84, LT (DEPOT HILL RD TH-85)

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 230+00 TO 231+67, SOLID LT
STA. 230+00 TO 234+50, SOLID RT
STA. 231+96 TO 234+50, SOLID LT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 230+00 TO 234+50, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 5



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

EXISTING CONCRETE APPROACH SLAB

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #10

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262110.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 42 OF 133

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 234+69, RT
STA. 237+97, RT
STA. 237+99, LT
STA. 238+95, RT

CHANGING ELEVATION OF SEWER MANHOLES
STA. 239+16, RT

CAST-IN-PLACE CONCRETE CURB, TYPE B
STA. 237+96, RT

REMOVAL OF EXISTING CURB
STA. 237+96, RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. 236+83, RT
STA. 237+96, RT
STA. 238+54, RT

DETECTABLE WARNING SURFACE
STA. 236+83, RT
STA. 237+96, RT
STA. 238+54, RT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 234+71 TO 234+95, RT
STA. 234+72 TO 234+95.5, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 234+71, RT
STA. 234+72, LT
STA. 234+95, RT
STA. 234+95.5, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 234+71 TO 234+95, RT
STA. 234+72 TO 234+95.5, LT

ADJUST ELEVATION OF VALVE BOX
STA. 238+39, RT
STA. 238+40, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 234+50 TO 240+00, SOLID LT & RT
STA. 235+36, SOLID RT (EDGELINES, ROBERTS BROOK LANE TH-34)
STA. 238+23, SOLID RT (EDGELINES, BREEZY HILL ROAD TH-6)

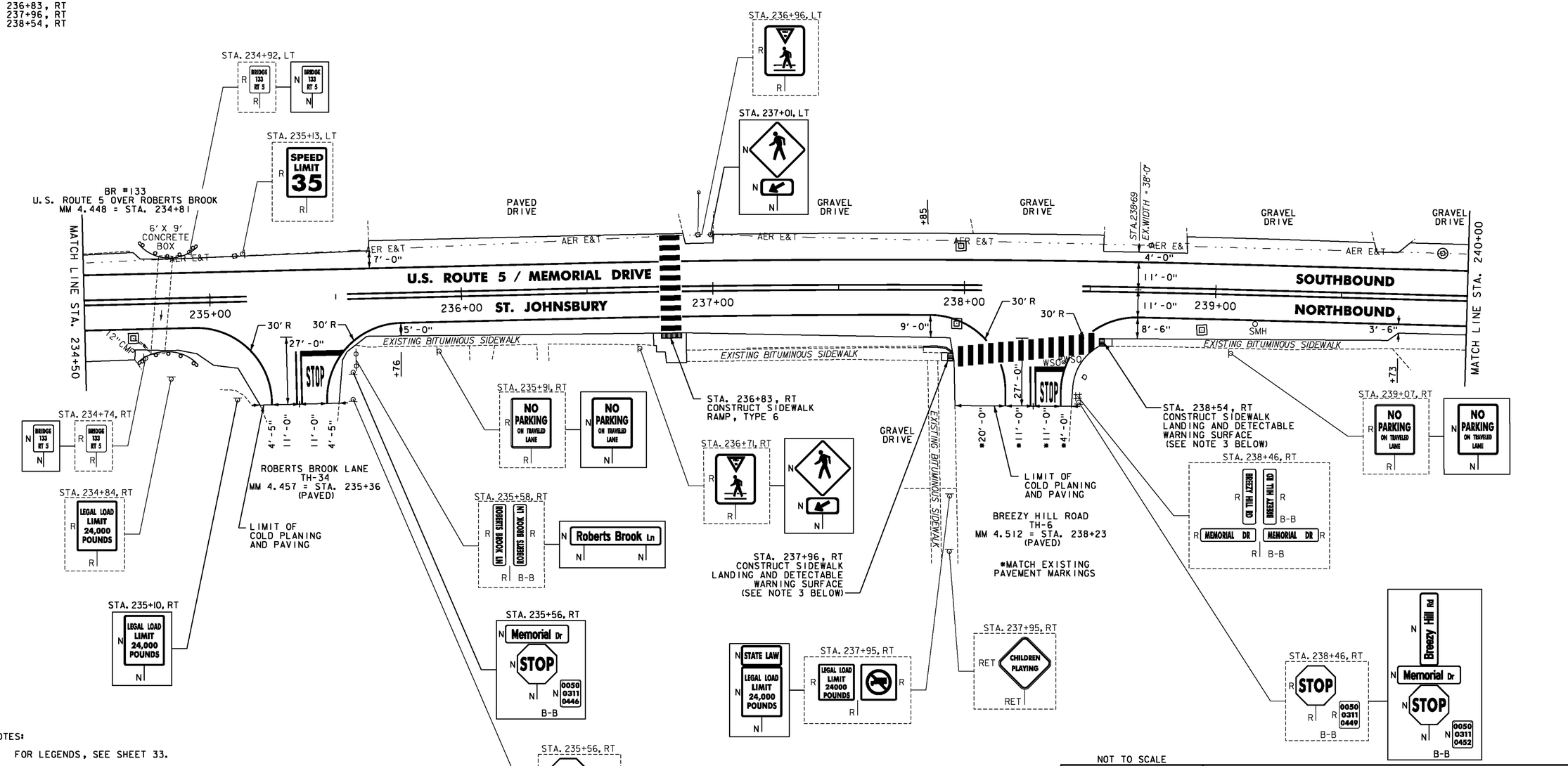
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 234+50 TO 240+00, SOLID LT & RT
STA. 235+36, DOUBLE SOLID RT (ROBERTS BROOK LANE TH-34)
STA. 238+23, DOUBLE SOLID RT (BREEZY HILL ROAD TH-6)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 235+36, RT (ROBERTS BROOK LANE TH-34)
STA. 238+23, RT (BREEZY HILL ROAD TH-6)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 235+36, RT (ROBERTS BROOK LANE TH-34) "STOP"
STA. 238+23, RT (BREEZY HILL ROAD TH-6) "STOP"

DURABLE & TEMPORARY CROSSWALK MARKING
STA. 236+83, LT-RT
STA. 238+23, RT (BREEZY HILL ROAD TH-34)
SEE SHEET 29 (TYPICAL)

REMOVING SIGNS
AS SHOWN - 20



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. THE SIDEWALK "LANDINGS" NOTED CONSIST OF REMOVAL OF EXISTING CONCRETE AND SIDEWALK AS SHOWN AND REPLACING IT WITH NEW SUBBASE, CONCRETE AND DETECTABLE WARNING SURFACE.
4. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #11

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262111.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 43 OF 133

RELOCATE MAILBOX, SINGLE SUPPORT
STA. 243+66, LT

REHAB. Dis. CBs OR MHs. CLASS I OR II
STA. 243+65, LT

CHANGING ELEVATION OF SEWER MANHOLES
STA. 241+51, RT
STA. 242+58, RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. 242+53, RT
STA. 242+75, RT

DETECTABLE WARNING SURFACE
STA. 242+53, RT
STA. 242+75, RT

ADJUST ELEVATION OF VALVE BOX
STA. 242+67, RT
STA. 242+72, RT

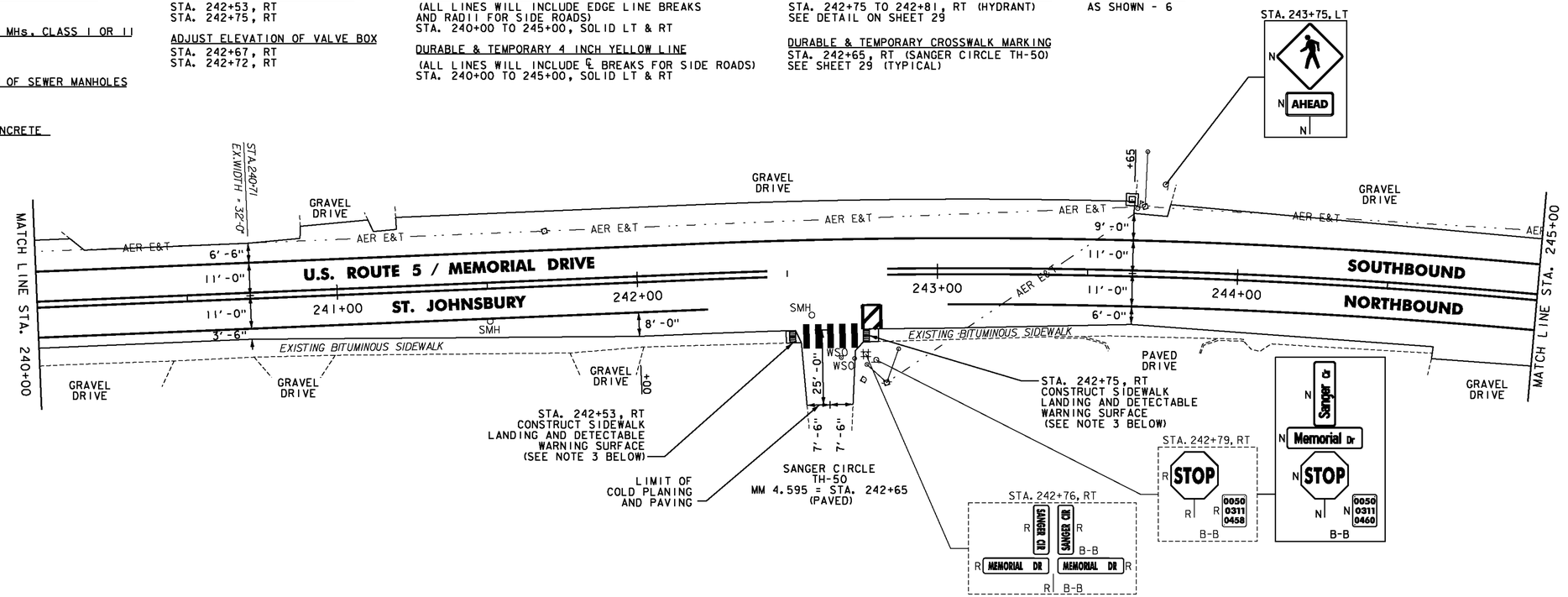
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 240+00 TO 245+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 240+00 TO 245+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 242+75 TO 242+81, RT (HYDRANT)
SEE DETAIL ON SHEET 29

DURABLE & TEMPORARY CROSSWALK MARKING
STA. 242+65, RT (SANGER CIRCLE TH-50)
SEE SHEET 29 (TYPICAL)

REMOVING SIGNS
AS SHOWN - 6



STEEL BEAM GUARDRAIL, GALVANIZED
STA. 247+02 TO 250+00, LT

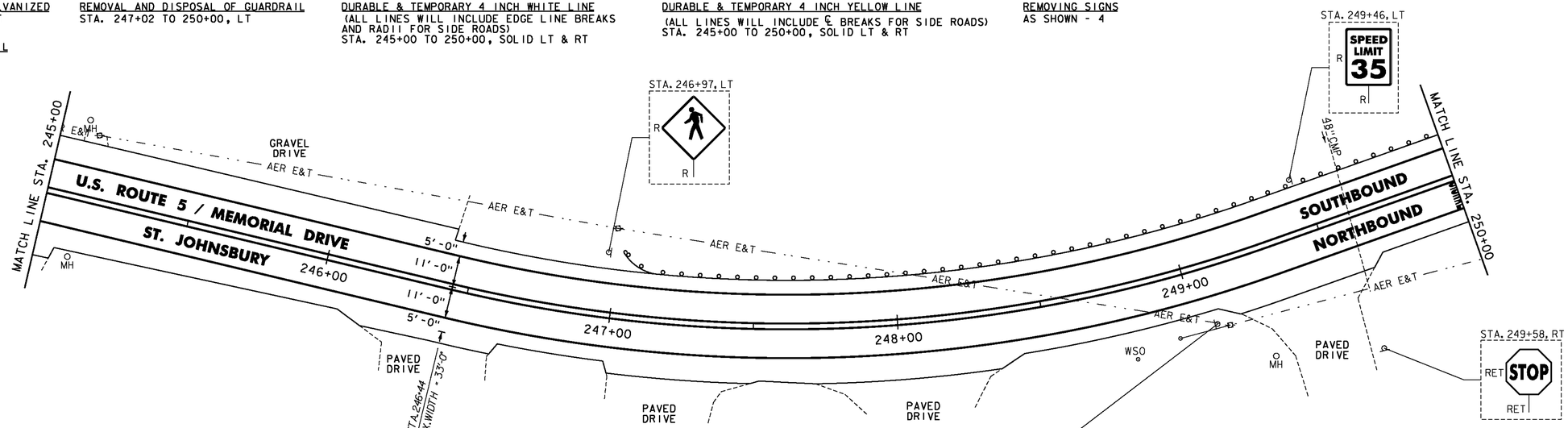
ANCHOR FOR STEEL BEAM RAIL
STA. 247+02, LT

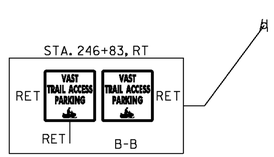
REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 247+02 TO 250+00, LT

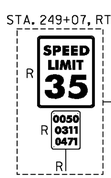
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 245+00 TO 250+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 245+00 TO 250+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 4







NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. THE SIDEWALK "LANDINGS" NOTED CONSIST OF REMOVAL OF EXISTING CONCRETE AND SIDEWALK AS SHOWN AND REPLACING IT WITH NEW SUBBASE, CONCRETE AND DETECTABLE WARNING SURFACE.
4. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #12

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262112.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 250+00 TO 251+44, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 251+44, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 250+00 TO 251+44, LT

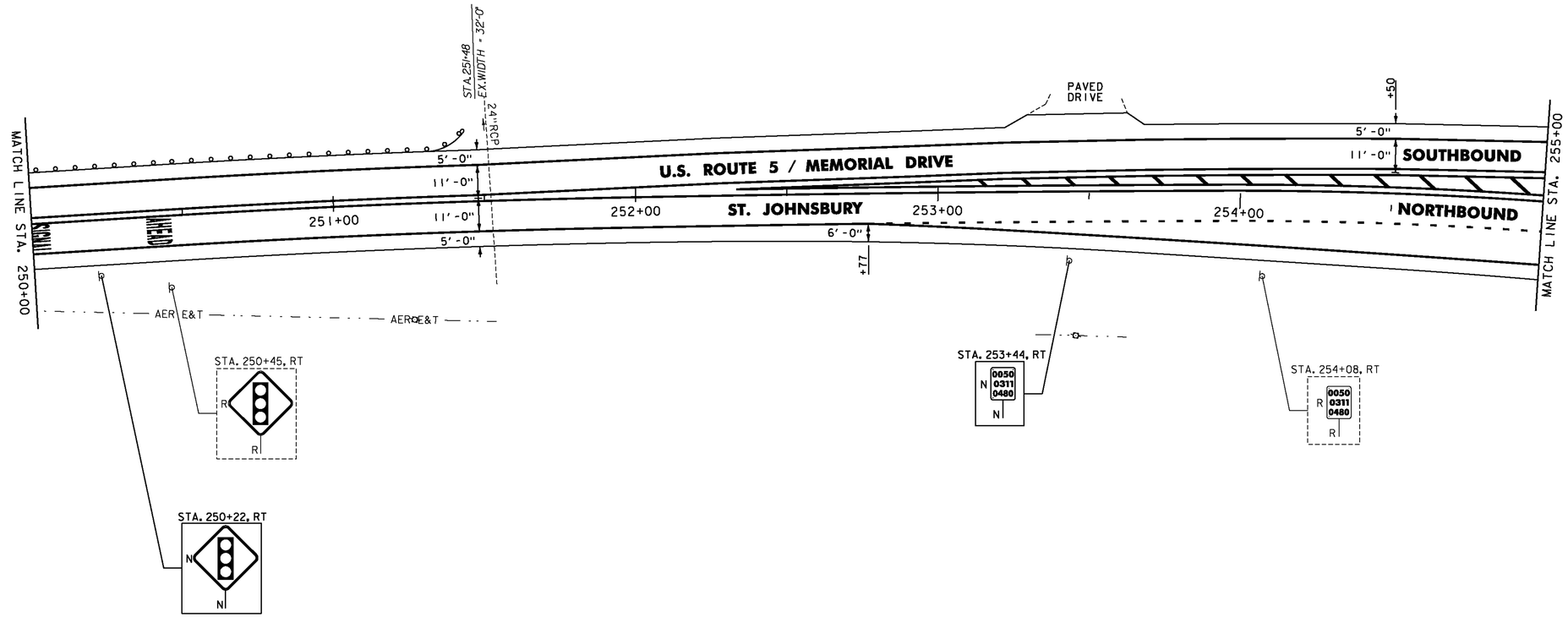
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 250+00 TO 255+00, SOLID LT & RT
STA. 252+77 TO 255+00, DOTTED RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 250+00 TO 252+33, SOLID LT & RT
STA. 252+33 TO 255+00, DOUBLE SOLID LT(2)

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 252+33 TO 255+00, SOLID LT (DIAGONALS)
SEE DETAIL ON SHEET 30

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 250+02, RT "SIGNAL"
STA. 250+42, RT "AHEAD"

REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #13

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262113.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 45 OF 133

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 256+47, RT
STA. 257+20, RT
STA. 257+45, RT
FOR DETAIL SEE SHEET 31

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 255+00 TO 260+00, SOLID LT & RT
STA. 255+00 TO 255+02, DOTTED RT
STA. 255+02 TO 256+26, SOLID RT (LANE LINE)
STA. 256+85, SOLID RT (EDGELINES, GREEN MOUNTAIN MALL ENTRANCE)
STA. 257+60 TO 259+05, SOLID LT (LANE LINE)
STA. 259+05 TO 260+00, DOTTED LT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 255+00 TO 256+35, DOUBLE SOLID LT (2)
STA. 256+85, SOLID RT (GREEN MOUNTAIN MALL ENTRANCE)
STA. 257+58 TO 260+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 257+45 TO 257+57, RT (HYDRANT)
SEE SHEET 29

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 255+00 TO 256+35, SOLID LT (DIAGONALS)
SEE DETAIL ON SHEET 30

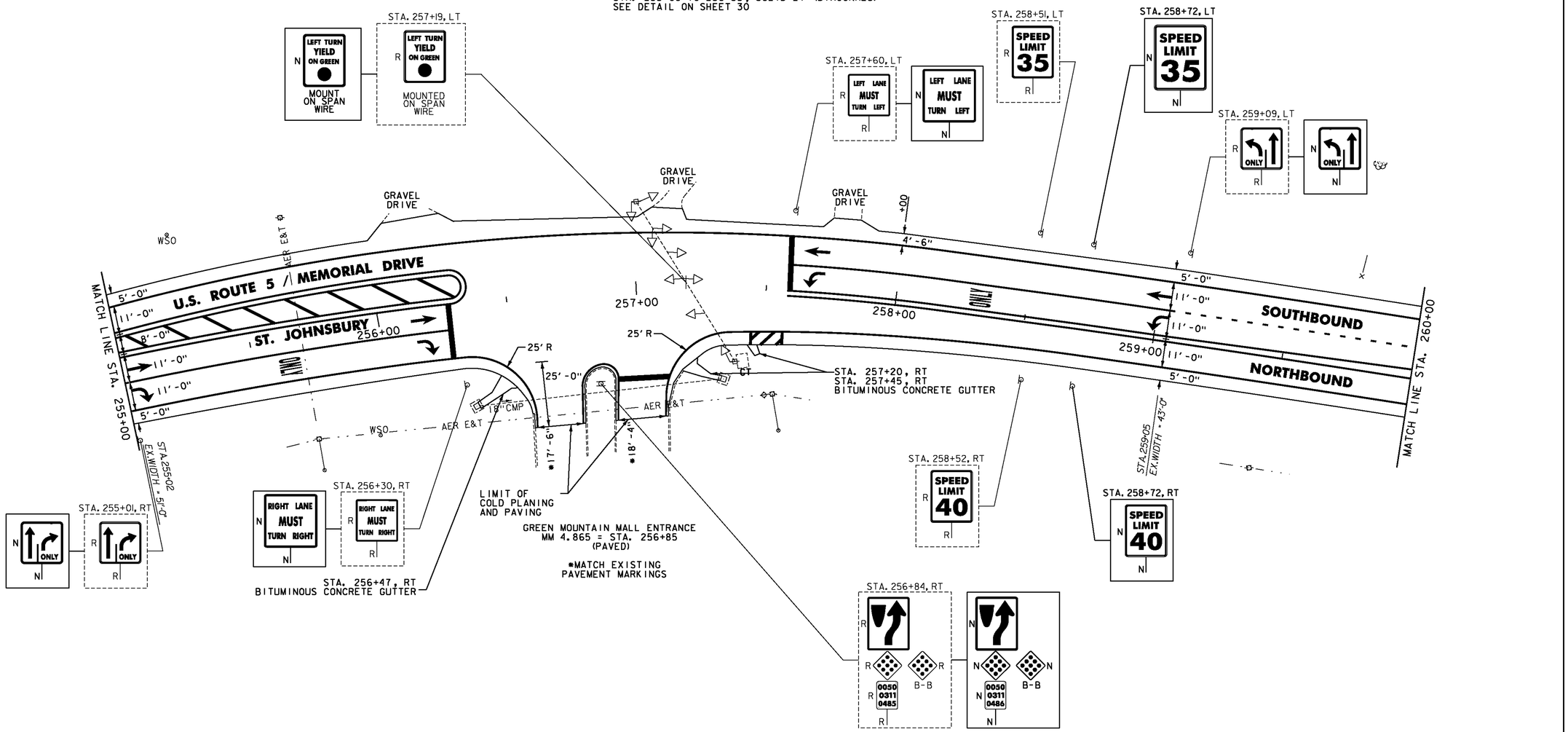
DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 256+27, RT
STA. 256+85, RT (GREEN MOUNTAIN MALL ENTRANCE)
STA. 257+59, LT

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 255+06, RT ARROW (2)
STA. 255+64, RT "ONLY"
STA. 256+18, RT ARROW (2)
STA. 257+68, LT ARROW (2)
STA. 258+32, LT "ONLY"
STA. 259+01, LT ARROW (2)

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 255+06, RT ARROW (2)
STA. 256+18, RT ARROW (2)
STA. 257+68, LT ARROW (2)
STA. 259+01, LT ARROW (2)

PAINTED CURB
STA. 256+85, RT (GREEN MOUNTAIN MALL ENTRANCE)

REMOVING SIGNS
AS SHOWN - 11



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. SEE SHEET 129 FOR TRAFFIC SIGNAL DETAILS.
4. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #14

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262114.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 46 OF 133

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 263+72.5 TO 265+00, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 263+72.5, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 263+73 TO 265+00, LT

ADJUST ELEVATION OF VALVE BOX
STA. 260+58, RT

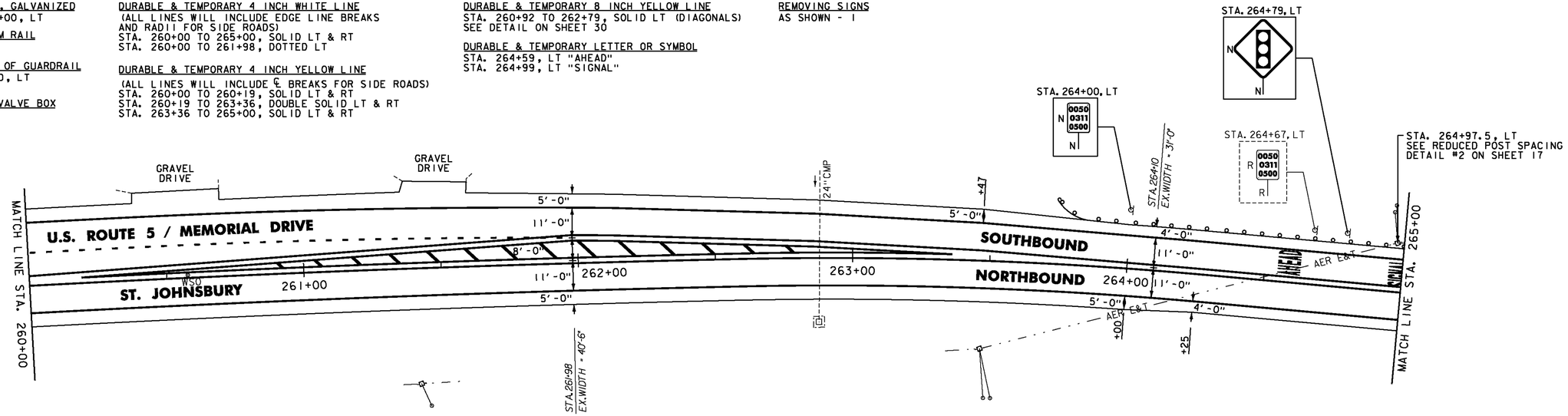
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 260+00 TO 265+00, SOLID LT & RT
STA. 260+00 TO 261+98, DOTTED LT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 260+00 TO 260+19, SOLID LT & RT
STA. 260+19 TO 263+36, DOUBLE SOLID LT & RT
STA. 263+36 TO 265+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 260+92 TO 262+79, SOLID LT (DIAGONALS)
SEE DETAIL ON SHEET 30

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 264+59, LT "AHEAD"
STA. 264+99, LT "SIGNAL"

REMOVING SIGNS
AS SHOWN - 1



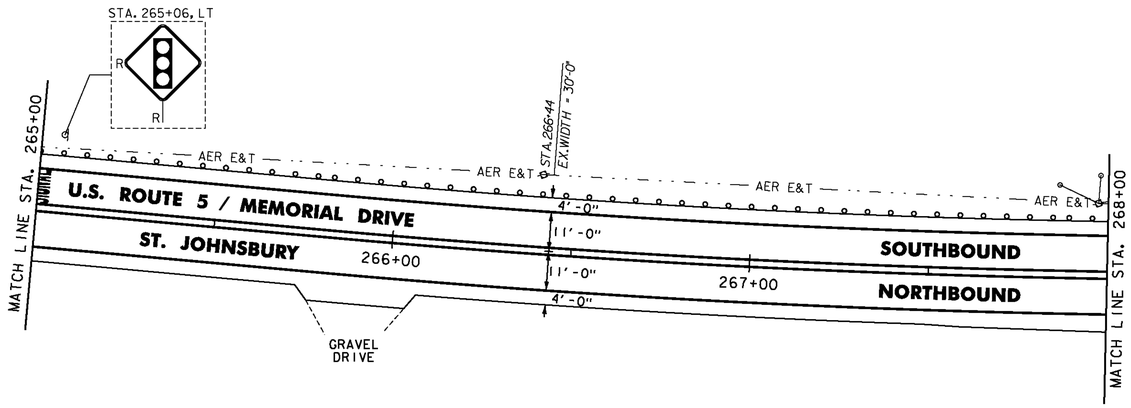
STEEL BEAM GUARDRAIL, GALVANIZED
STA. 265+00 TO 268+00, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 265+00 TO 268+00, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 265+00 TO 268+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 265+00 TO 268+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #15

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262115.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 47 OF 133

MILLED RUMBLE STRIPS
STA. 272+50 TO 273+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 265+00 TO 273+00, LT
STA. 269+71 TO 270+92.5, RT

ADJUST ELEVATION OF VALVE BOX
STA. 271+03, RT

ANCHOR FOR STEEL BEAM RAIL
STA. 269+71, RT
STA. 270+92.5, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 265+00 TO 273+00, LT
STA. 269+71 TO 270+92.5, RT

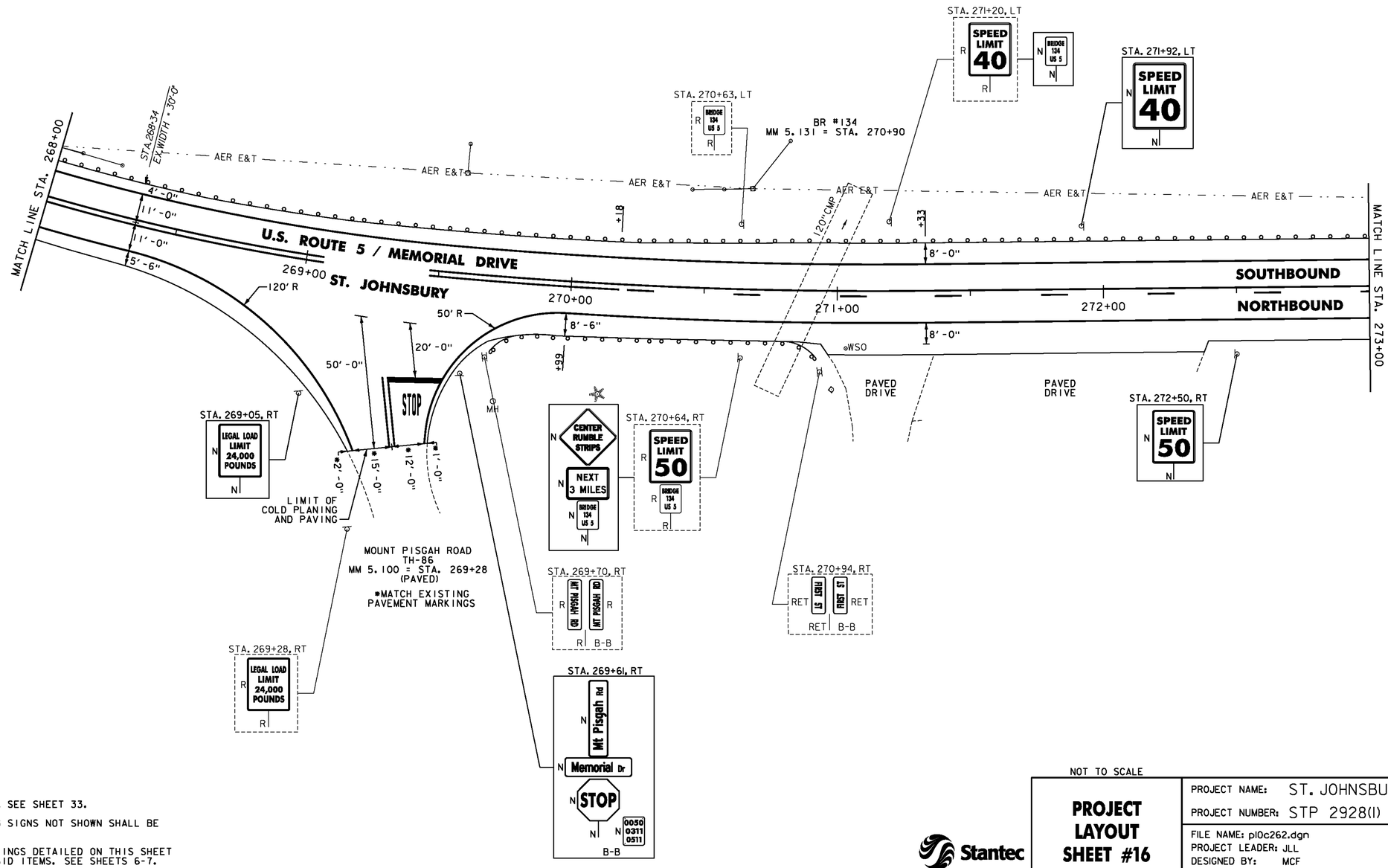
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 268+00 TO 273+00, SOLID LT & RT
STA. 269+28, SOLID RT (EDGELINES, MOUNT PISGAH ROAD TH-86)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 268+00 TO 270+18, SOLID LT & RT
STA. 269+28, DOUBLE SOLID RT (MOUNT PISGAH ROAD TH-86)
STA. 270+18 TO 273+00, SOLID LT, DASHED RT

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 269+28, RT (MOUNT PISGAH ROAD TH-86)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 269+28, RT (MOUNT PISGAH ROAD TH-86) "STOP"

REMOVING SIGNS
AS SHOWN - 7



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #16

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262116.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 48 OF 133

MILLED RUMBLE STRIPS
STA. 273+00 TO 278+00, ℄

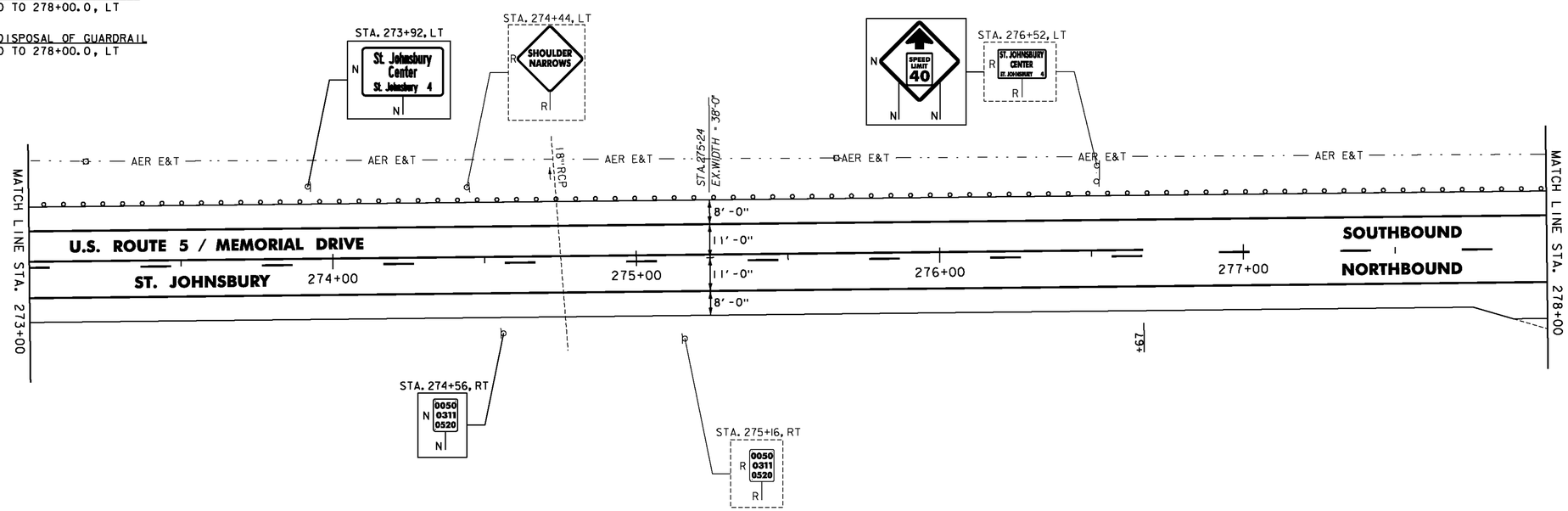
STEEL BEAM GUARDRAIL, GALVANIZED
STA. 273+00.0 TO 278+00.0, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 273+00.0 TO 278+00.0, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 273+00 TO 278+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 273+00 TO 276+67, SOLID LT, DASHED RT
STA. 276+67 TO 278+00, DASHED ℄

REMOVING SIGNS
AS SHOWN - 3



MILLED RUMBLE STRIPS
STA. 278+00 TO 283+00, ℄

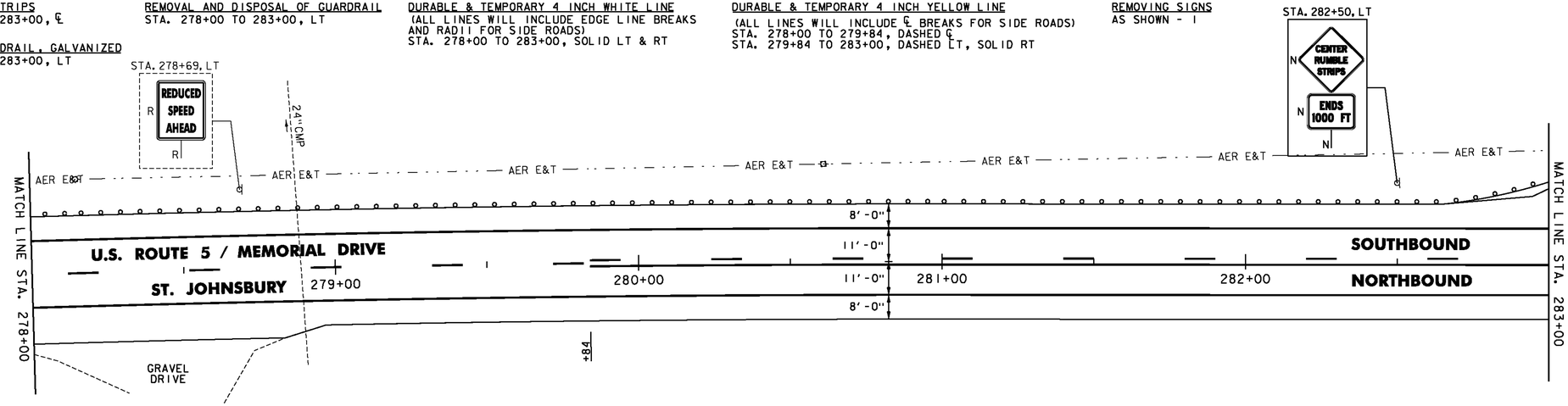
STEEL BEAM GUARDRAIL, GALVANIZED
STA. 278+00 TO 283+00, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 278+00 TO 283+00, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 278+00 TO 283+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 278+00 TO 279+84, DASHED ℄
STA. 279+84 TO 283+00, DASHED LT, SOLID RT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #17

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262117.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 49 OF 133

MILLED RUMBLE STRIPS
STA. 283+00 TO 288+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 283+00 TO 283+68.5, LT

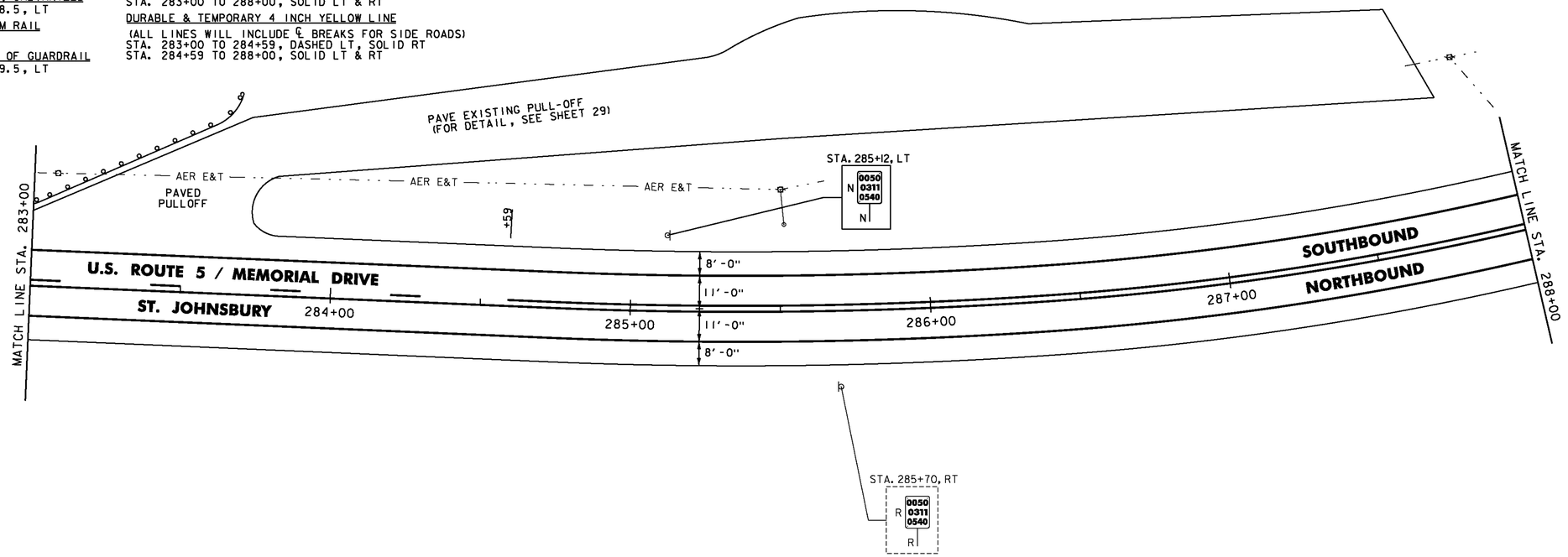
ANCHOR FOR STEEL BEAM RAIL
STA. 283+68.5, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 283+00 TO 283+69.5, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 283+00 TO 288+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 283+00 TO 284+59, DASHED LT, SOLID RT
STA. 284+59 TO 288+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



MILLED RUMBLE STRIPS
STA. 288+00 TO 293+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 288+61.5 TO 289+53.5, LT
STA. 289+74 TO 290+25, RT

TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL
STA. 289+53.5 TO 289+78.5, LT
STA. 290+25 TO 290+50, RT
FOR DETAIL, SEE SHEET 19

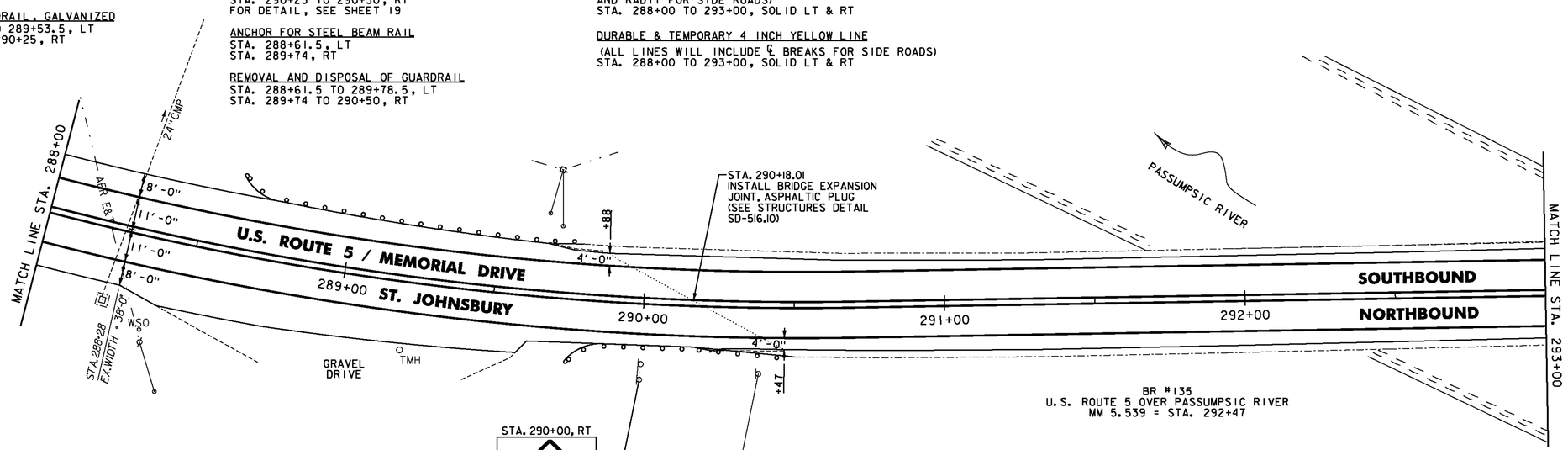
ANCHOR FOR STEEL BEAM RAIL
STA. 288+61.5, LT
STA. 289+74, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 288+61.5 TO 289+78.5, LT
STA. 289+74 TO 290+50, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 288+00 TO 293+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 288+00 TO 293+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #18

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262118.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 50 OF 133

MILLED RUMBLE STRIPS
STA. 293+00 TO 298+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 294+67.5 TO 295+19.5, LT
STA. 295+39.5 TO 296+80, RT

TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL
STA. 294+42.5 TO 294+67.5, LT
STA. 295+14.5 TO 295+39.5, RT
FOR DETAIL, SEE SHEET 19

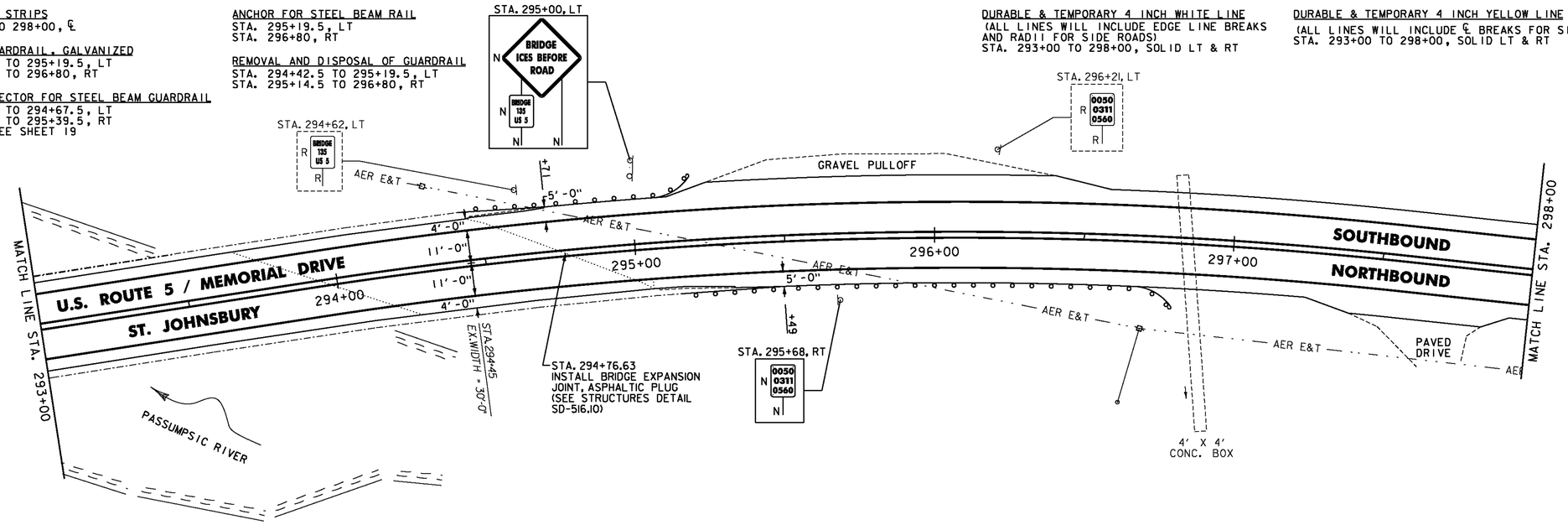
ANCHOR FOR STEEL BEAM RAIL
STA. 295+19.5, LT
STA. 296+80, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 294+42.5 TO 295+19.5, LT
STA. 295+14.5 TO 296+80, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 293+00 TO 298+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 293+00 TO 298+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2



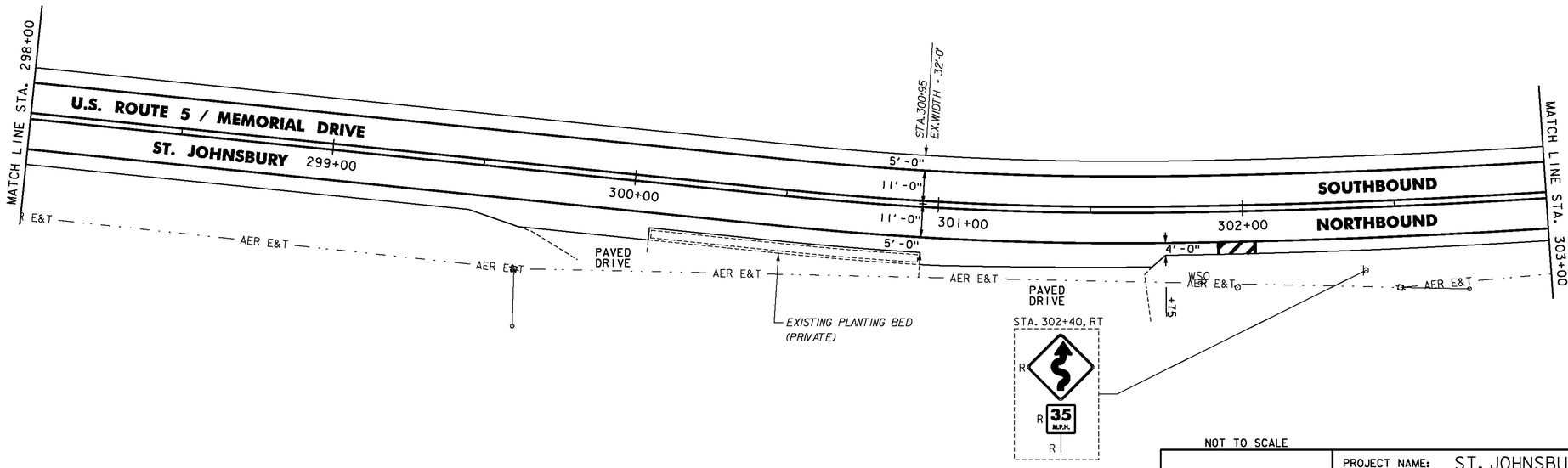
MILLED RUMBLE STRIPS
STA. 298+00 TO 303+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 298+00 TO 303+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 298+00 TO 303+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 301+92 TO 302+04, SOLID RT (HYDRANT)
SEE DETAIL ON SHEET 29

REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #19

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262119.i

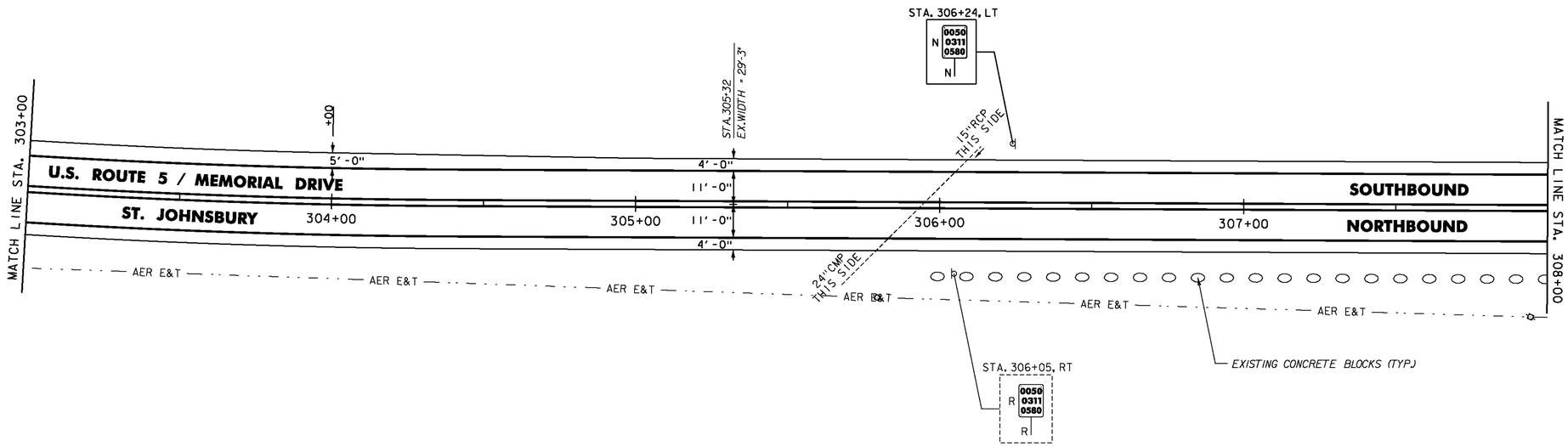
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 51 OF 133

MILLED RUMBLE STRIPS
STA. 303+00 TO 308+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 303+00 TO 308+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 303+00 TO 308+00, SOLID LT & RT

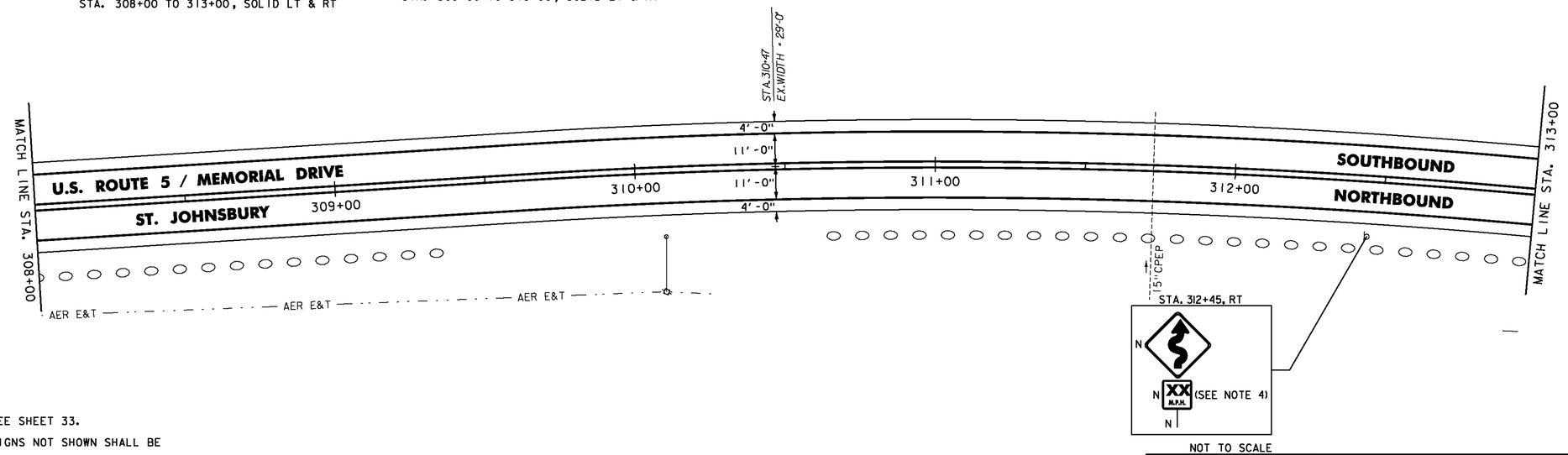
REMOVING SIGNS
AS SHOWN - 1



MILLED RUMBLE STRIPS
STA. 308+00 TO 313+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 308+00 TO 313+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 308+00 TO 313+00, SOLID LT & RT



NOT TO SCALE

NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. THE ADVISORY SPEED SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER USING AN ESTABLISHED ENGINEERING PRACTICE AS LISTED IN SECTION 2C.08 OF THE MUTCD.

Stantec

PROJECT LAYOUT SHEET #20

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

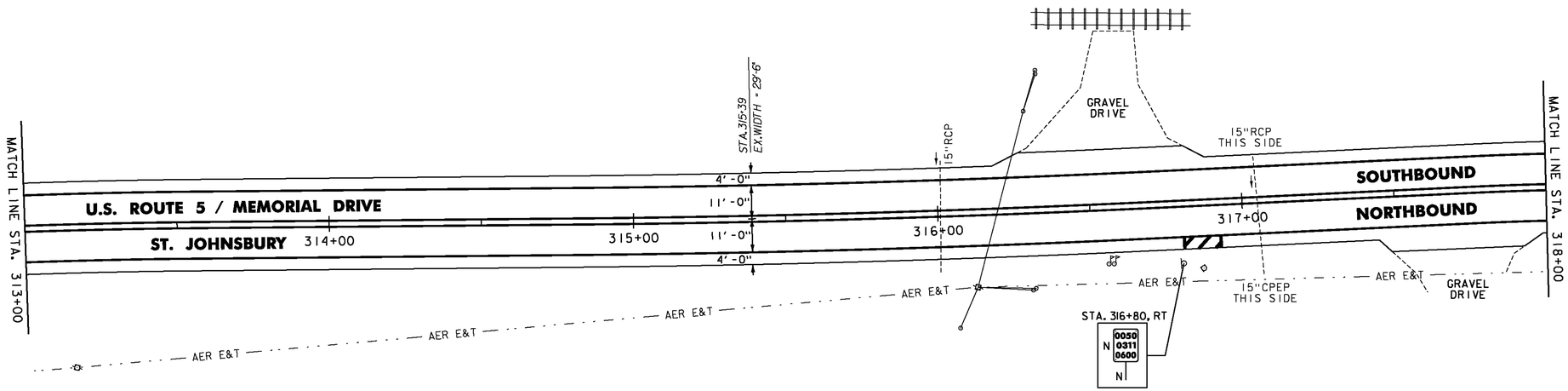
FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262120.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 52 OF 133

MILLED RUMBLE STRIPS
STA. 313+00 TO 318+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 313+00 TO 318+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 313+00 TO 318+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 316+81 TO 316+93, SOLID RT (HYDRANT)
SEE DETAIL ON SHEET 29



THINNING AND TRIMMING FOR SIGNS
STA. 320+03, LT
SEE DETAIL ON SHEET 31

MILLED RUMBLE STRIPS
STA. 318+00 TO 323+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 320+04 TO 323+00, RT

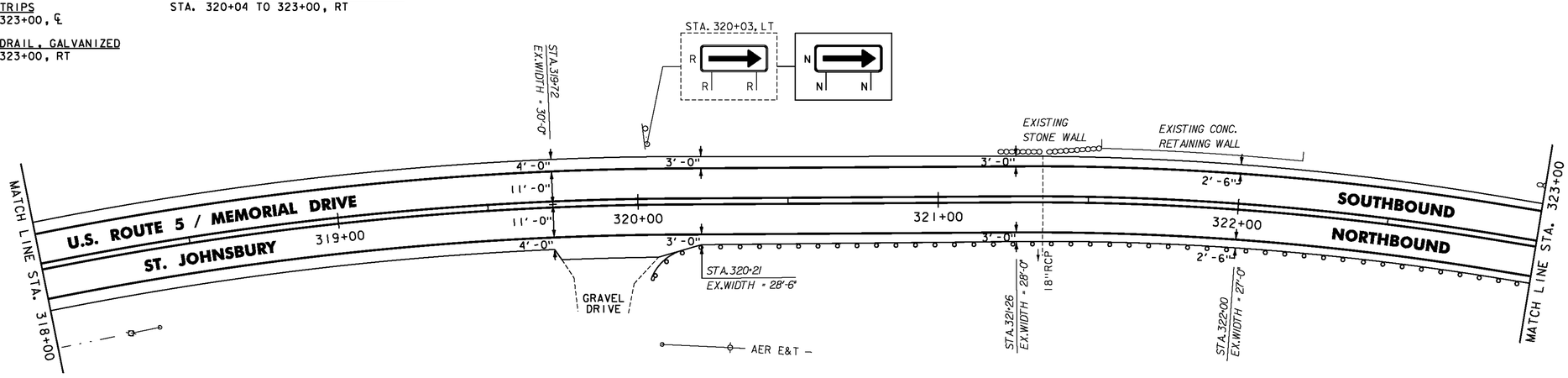
ANCHOR FOR STEEL BEAM RAIL
STA. 320+04, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 320+04 TO 323+00, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 318+00 TO 323+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 318+00 TO 323+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #21

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I21.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 53 OF 133

THINNING AND TRIMMING FOR SIGNS
STA. 323+75, LT
SEE DETAIL ON SHEET 31

MILLED RUMBLE STRIPS
STA. 323+00 TO 326+50, ℄

STONE FILL, TYPE I
STA. 324+27 TO 324+40, RT

STA. 323+75, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 323+00 TO 328+00, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 323+00 TO 328+00, RT

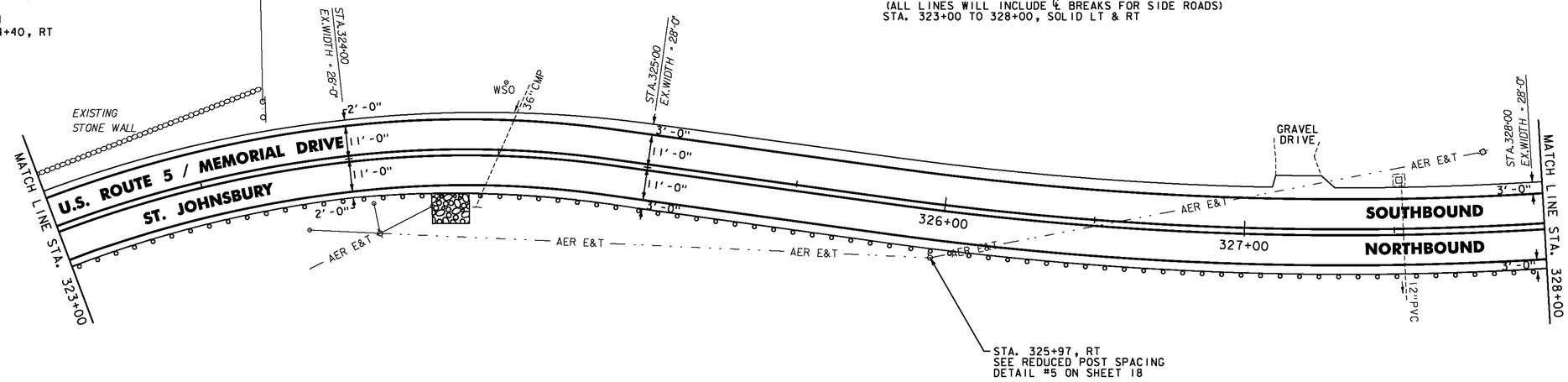
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 323+00 TO 328+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 323+00 TO 328+00, SOLID LT & RT

GEOTEXTILE UNDER STONE FILL
STA. 324+27 TO 324+40, RT

GRUBBING MATERIAL
STA. 324+27 TO 324+40, RT

REMOVING SIGNS
AS SHOWN - 1



MILLED RUMBLE STRIPS
STA. 328+50 TO 333+25, ℄
(BREAK FOR SIDE ROADS PER DETAIL ON SHEET 27)

STONE FILL, TYPE I
STA. 332+21 TO 332+36, RT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 328+00 TO 329+56, RT
STA. 330+20 TO 333+07.5, RT
STA. 331+78 TO 332+78, LT
(FOR DETAIL, SEE SHEET 17)

HD STEEL BEAM GUARDRAIL, GALVANIZED
STA. 329+56 TO 329+73.5, RT
STA. 330+01.5 TO 330+20, RT
(FOR DETAIL, SEE SHEETS 20 & 21)

ANCHOR FOR STEEL BEAM RAIL
STA. 331+78, LT
STA. 332+78, LT
STA. 333+07.5, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 328+00 TO 329+73.5, RT
STA. 330+01.5 TO 333+10, RT
STA. 331+78 TO 332+78, LT

ADJUST ELEVATION OF VALVE BOX
STA. 330+88, LT
STA. 330+92, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 328+00 TO 333+25, SOLID LT & RT
STA. 330+00, SOLID RT (EDGELINES, PIERCE RD TH-15)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 328+00 TO 333+25, SOLID LT & RT
STA. 330+00, DOUBLE SOLID RT (PIERCE RD TH-15)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 330+00, RT (PIERCE ROAD TH-15)

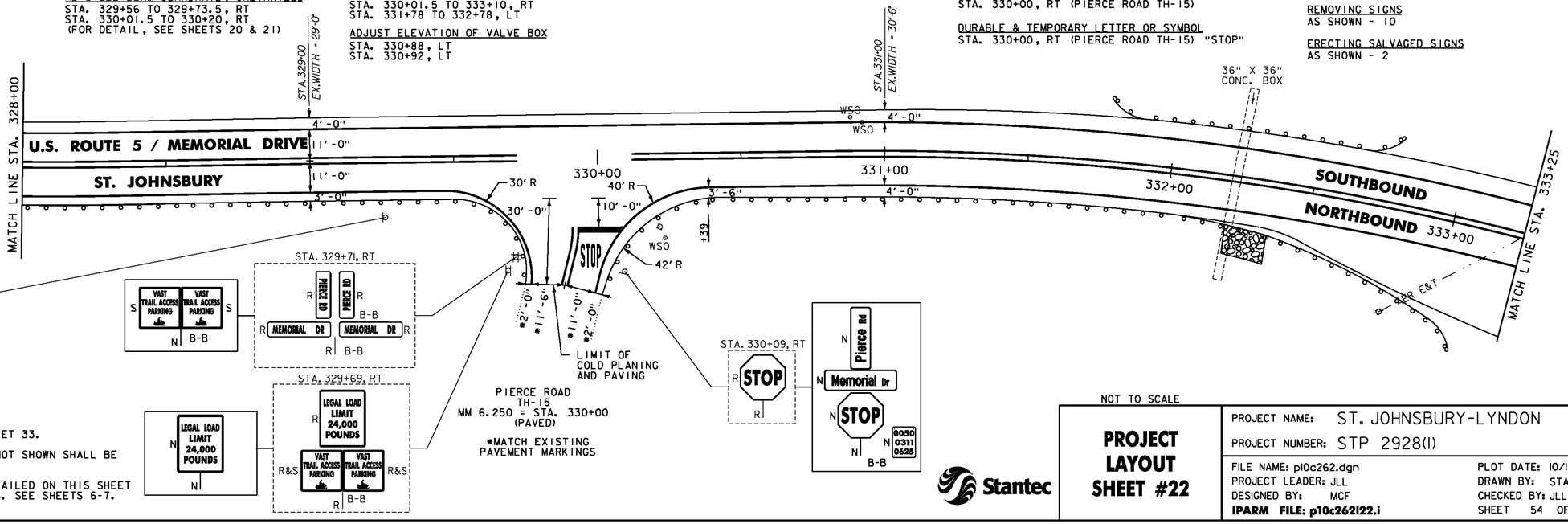
DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 330+00, RT (PIERCE ROAD TH-15) "STOP"

GEOTEXTILE UNDER STONE FILL
STA. 332+21 TO 332+36, RT

GRUBBING MATERIAL
STA. 332+21 TO 332+36, RT

REMOVING SIGNS
AS SHOWN - 10

ERECTING SALVAGED SIGNS
AS SHOWN - 2



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

PROJECT LAYOUT SHEET #22

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262122.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 54 OF 133

Stantec

MILLED RUMBLE STRIPS
STA. 333+25 TO 338+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 335+32 TO 338+00, RT
STA. 336+94 TO 338+00, LT

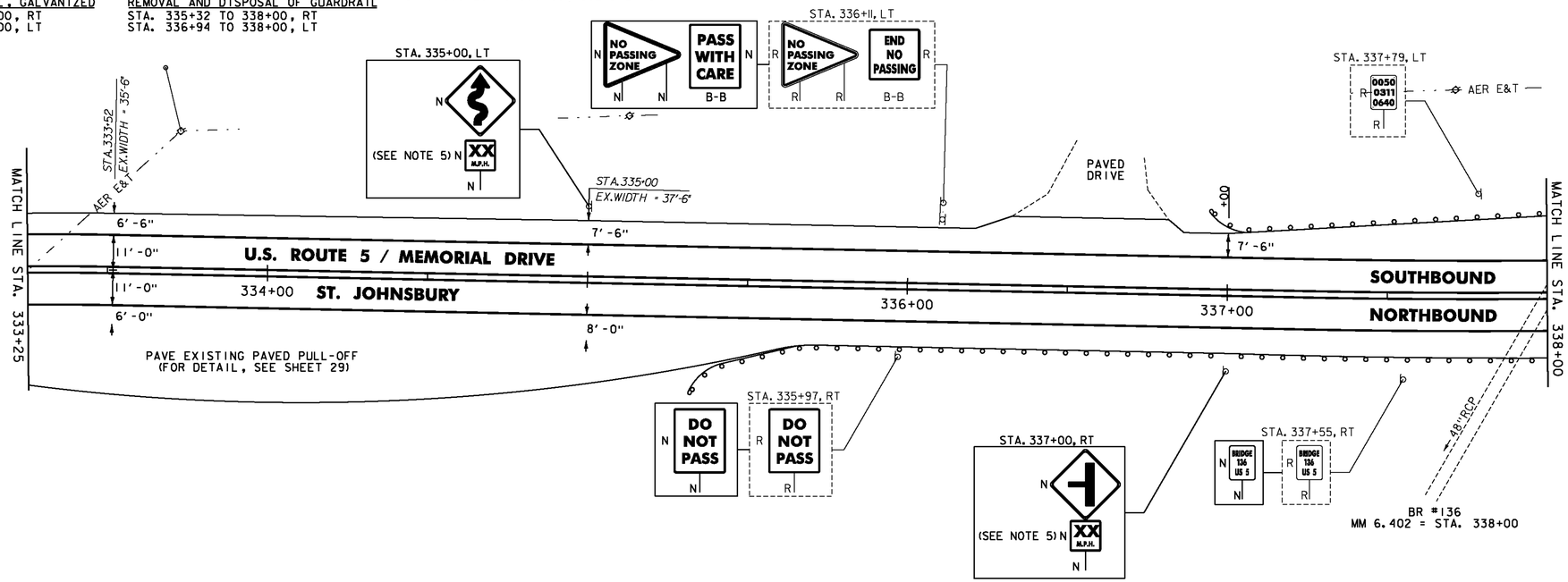
ANCHOR FOR STEEL BEAM RAIL
STA. 335+32, RT
STA. 336+94, LT

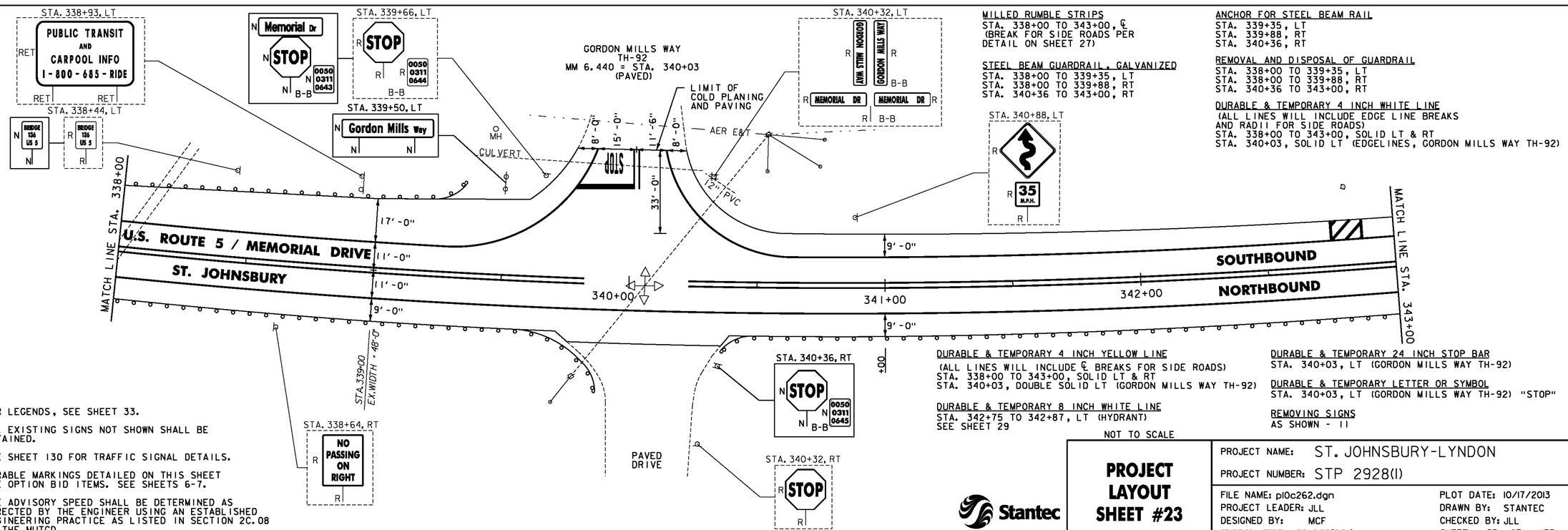
REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 335+32 TO 338+00, RT
STA. 336+94 TO 338+00, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 333+25 TO 338+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 333+25 TO 338+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 5





MILLED RUMBLE STRIPS
STA. 338+00 TO 343+00, ℄
(BREAK FOR SIDE ROADS PER DETAIL ON SHEET 27)

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 338+00 TO 339+35, LT
STA. 338+00 TO 339+88, RT
STA. 340+36 TO 343+00, RT

ANCHOR FOR STEEL BEAM RAIL
STA. 339+35, LT
STA. 339+88, RT
STA. 340+36, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 338+00 TO 339+35, LT
STA. 338+00 TO 339+88, RT
STA. 340+36 TO 343+00, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 338+00 TO 343+00, SOLID LT & RT
STA. 340+03, SOLID LT (EDGELINES, GORDON MILLS WAY TH-92)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 338+00 TO 343+00, SOLID LT & RT
STA. 340+03, DOUBLE SOLID LT (GORDON MILLS WAY TH-92)

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 342+75 TO 342+87, LT (HYDRANT)
SEE SHEET 29

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 340+03, LT (GORDON MILLS WAY TH-92)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 340+03, LT (GORDON MILLS WAY TH-92) "STOP"

REMOVING SIGNS
AS SHOWN - 11

NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. SEE SHEET 130 FOR TRAFFIC SIGNAL DETAILS.
4. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
5. THE ADVISORY SPEED SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER USING AN ESTABLISHED ENGINEERING PRACTICE AS LISTED IN SECTION 2C.08 OF THE MUTCD.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #23

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262123.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 55 OF 133

MILLED RUMBLE STRIPS
STA. 343+00 TO 348+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 343+00 TO 345+57, RT

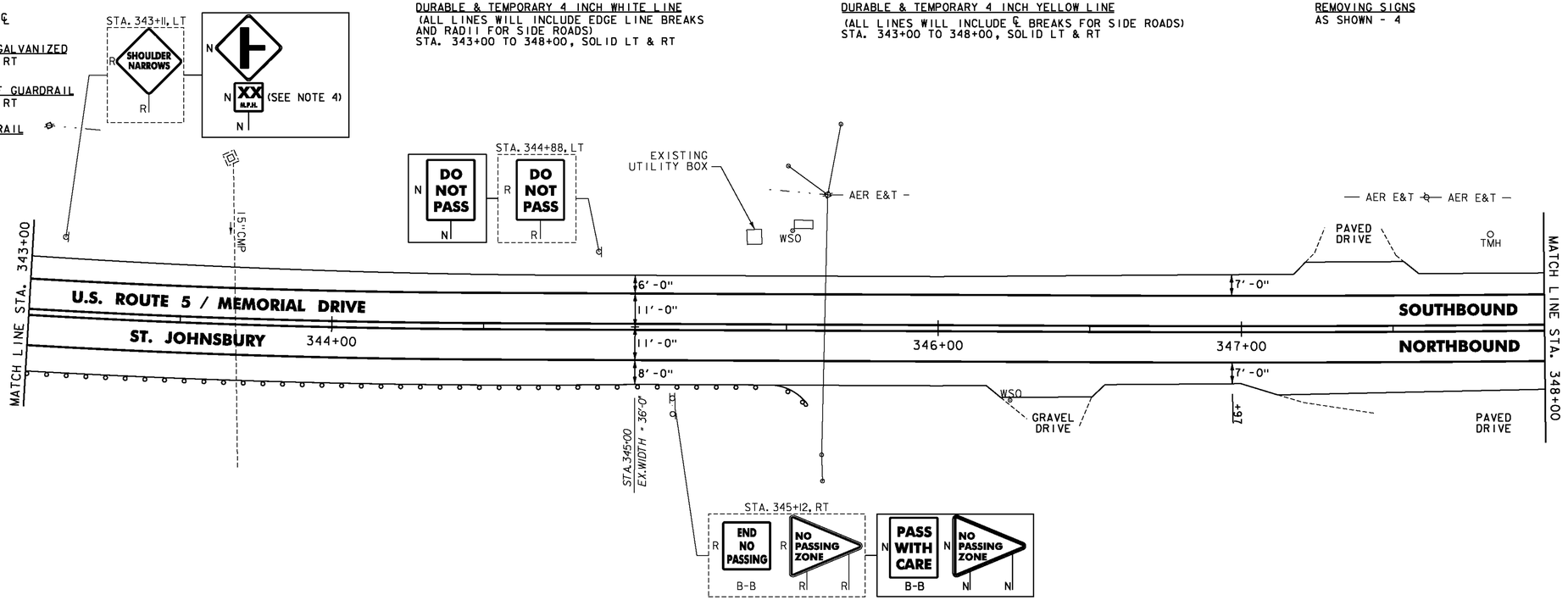
REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 343+00 TO 345+57, RT

ANCHOR FOR STEEL BEAM RAIL
STA. 345+57, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 343+00 TO 348+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 343+00 TO 348+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 4



MILLED RUMBLE STRIPS
STA. 348+00 TO 351+00, ℄

REHAB. Dis. CBs OR MHs. CLASS I OR II
STA. 348+22, RT

TREATED TIMBER CURB
STA. 348+23 TO 351+00, RT

ANCHOR FOR STEEL BEAM RAIL
STA. 348+17.5, RT
STA. 348+61, LT

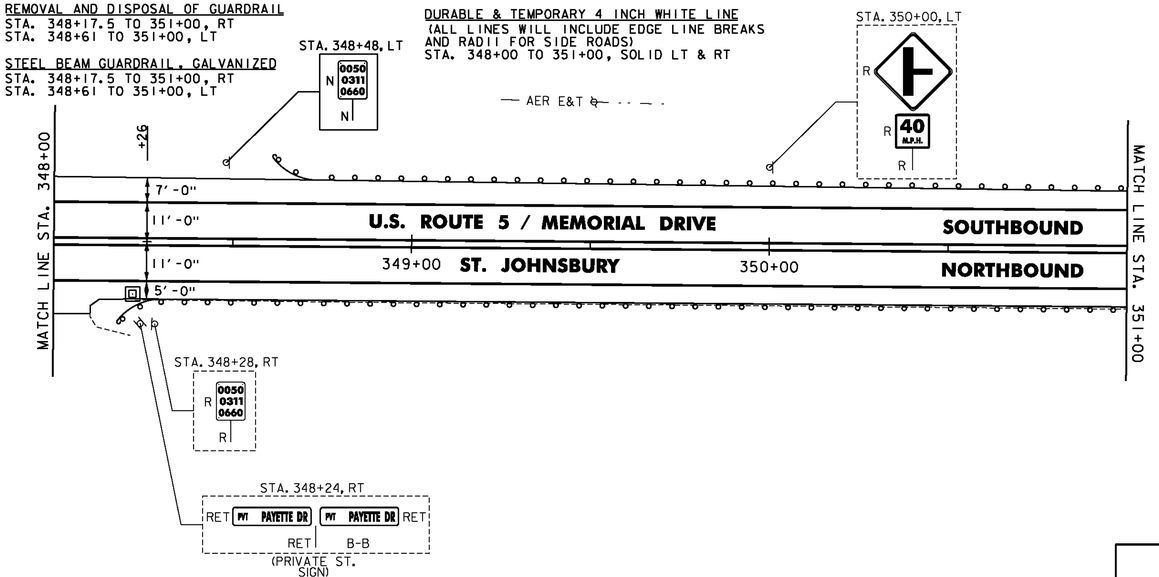
REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 348+17.5 TO 351+00, RT
STA. 348+61 TO 351+00, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 348+17.5 TO 351+00, RT
STA. 348+61 TO 351+00, LT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 348+00 TO 351+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 348+00 TO 351+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 3



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. THE ADVISORY SPEED SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER USING AN ESTABLISHED ENGINEERING PRACTICE AS LISTED IN SECTION 2C.08 OF THE MUTCD.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #24

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262124.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 56 OF 133

MILLED RUMBLE STRIPS
STA. 351+00 TO 356+00, ℄

TREATED TIMBER CURB
STA. 351+00 TO 352+30, RT

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 351+49, LT
FOR DETAIL, SEE SHEET 31

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 351+00 TO 351+25, LT
STA. 351+00 TO 352+05, RT
STA. 354+23 TO 356+00, LT
STA. 355+02 TO 356+00, RT

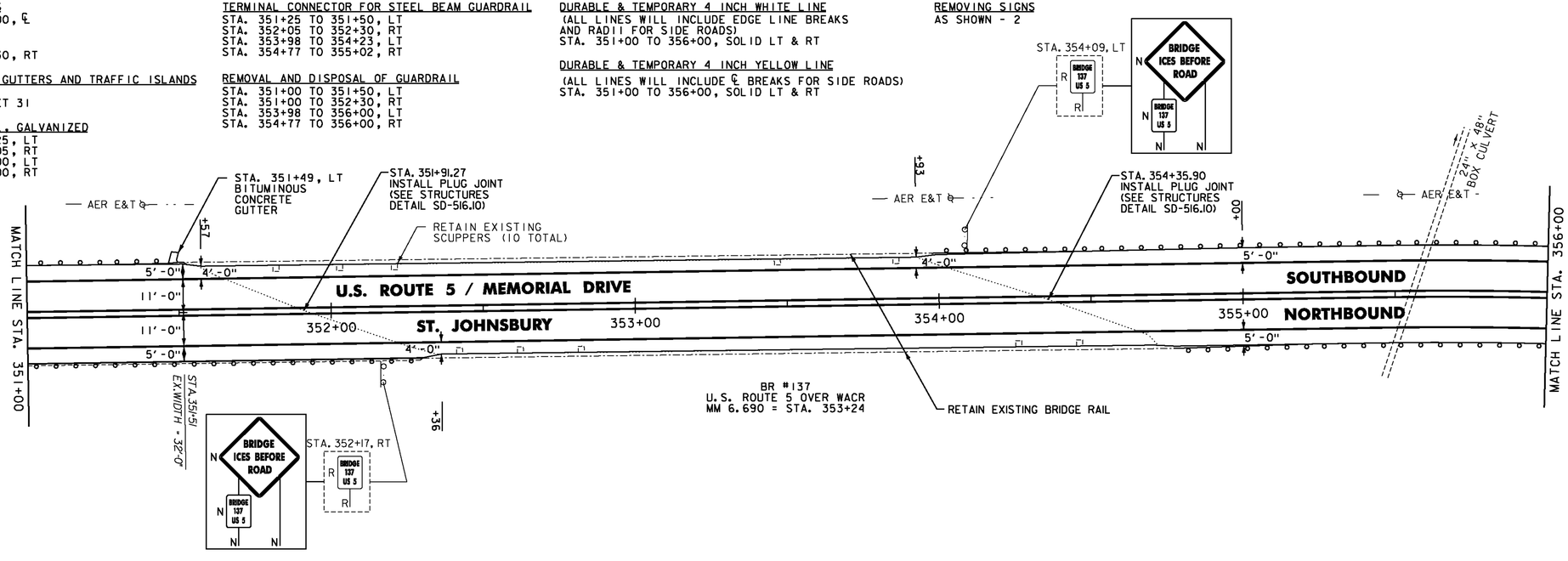
TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL
STA. 351+25 TO 351+50, LT
STA. 352+05 TO 352+30, RT
STA. 353+98 TO 354+23, LT
STA. 354+77 TO 355+02, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 351+00 TO 351+50, LT
STA. 351+00 TO 352+30, RT
STA. 353+98 TO 356+00, LT
STA. 354+77 TO 356+00, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 351+00 TO 356+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 351+00 TO 356+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2



MILLED RUMBLE STRIPS
STA. 356+00 TO 359+75, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 356+00 TO 356+96, LT
STA. 356+00 TO 357+69, RT

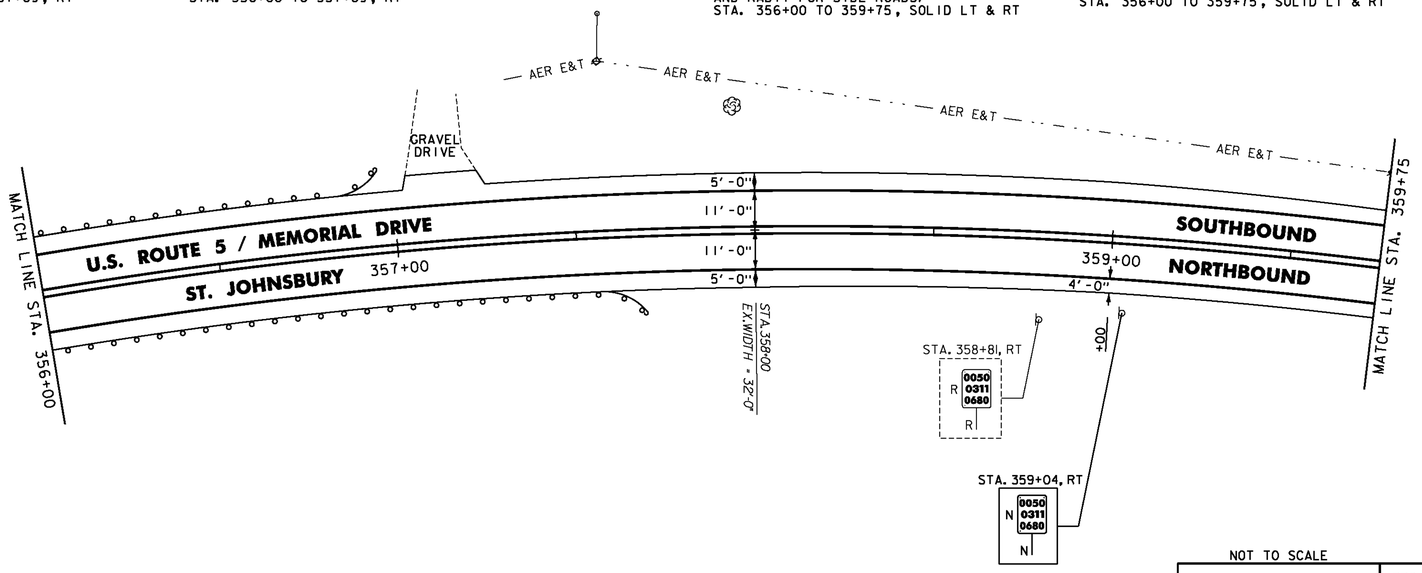
ANCHOR FOR STEEL BEAM RAIL
STA. 356+96, LT
STA. 357+69, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 356+00 TO 356+96, LT
STA. 356+00 TO 357+69, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 356+00 TO 359+75, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 356+00 TO 359+75, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #25

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I25.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 57 OF 133

MILLED RUMBLE STRIPS
STA. 359+75 TO 365+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 359+84.5 TO 362+86.5, RT

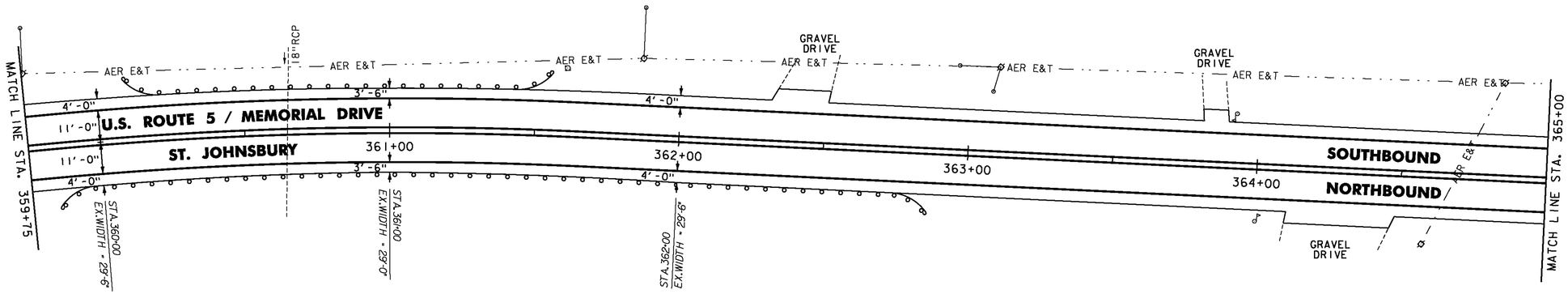
STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 360+09 TO 361+56, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 359+84.5, RT
STA. 360+09.0, LT
STA. 361+56.0, LT
STA. 362+86.5, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 359+86 TO 362+88, RT
STA. 360+15 TO 361+56, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 359+75 TO 365+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 359+75 TO 365+00, SOLID LT & RT



MILLED RUMBLE STRIPS
STA. 365+00 TO 370+00, ℄

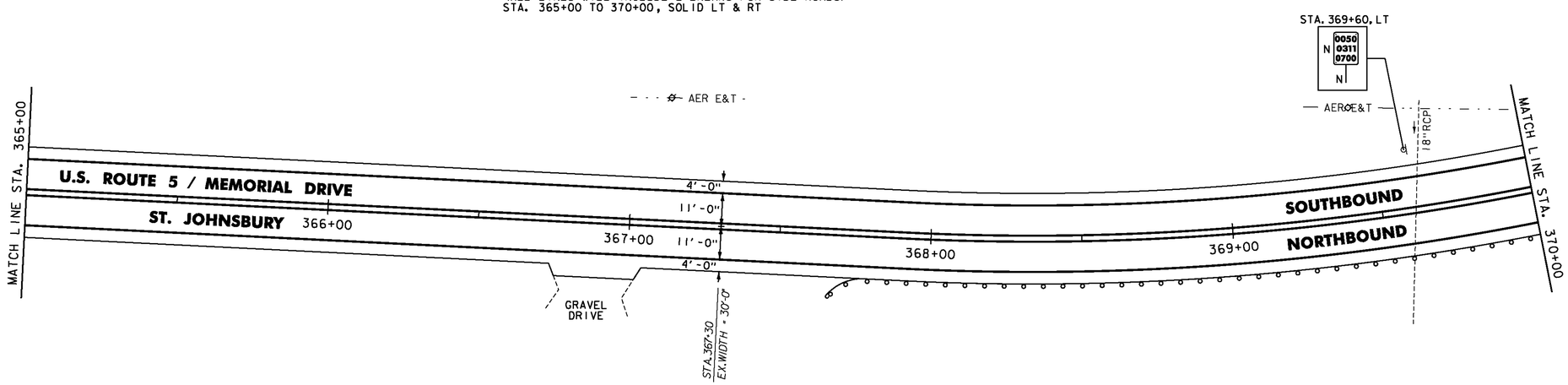
STEEL BEAM GUARDRAIL, GALVANIZED
STA. 367+66.5 TO 370+00, RT

ANCHOR FOR STEEL BEAM RAIL
STA. 367+66.5, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 367+66.5 TO 370+00, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 365+00 TO 370+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 365+00 TO 370+00, SOLID LT & RT



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #26

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262126.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 58 OF 133

MILLED RUMBLE STRIPS
STA. 370+00 TO 375+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 370+00 TO 373+32, RT

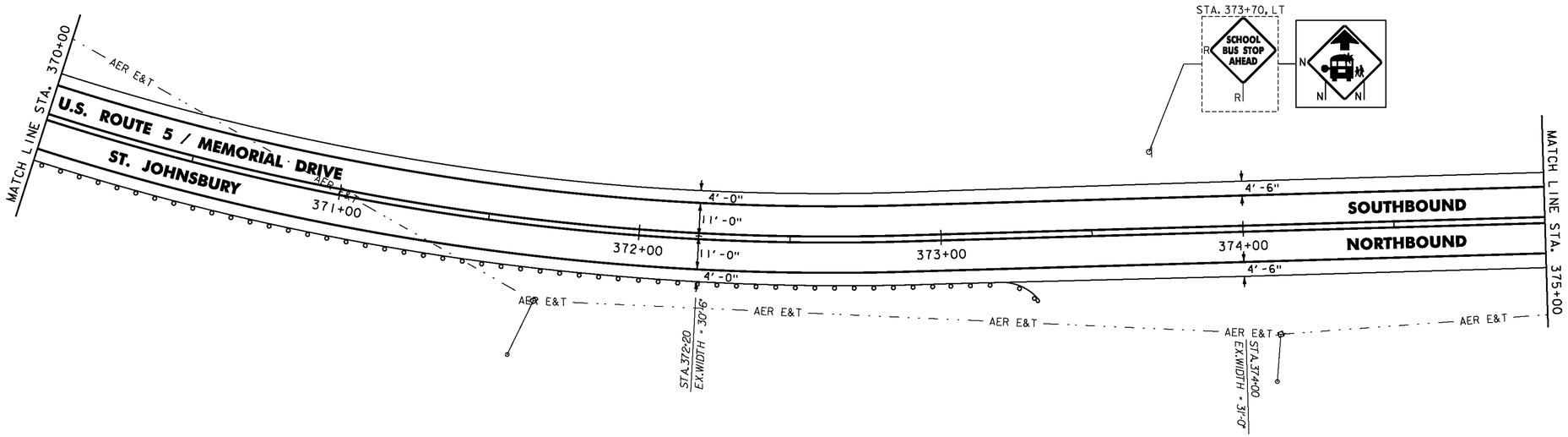
ANCHOR FOR STEEL BEAM RAIL
STA. 373+32, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 370+00 TO 373+32, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 370+00 TO 375+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 370+00 TO 375+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



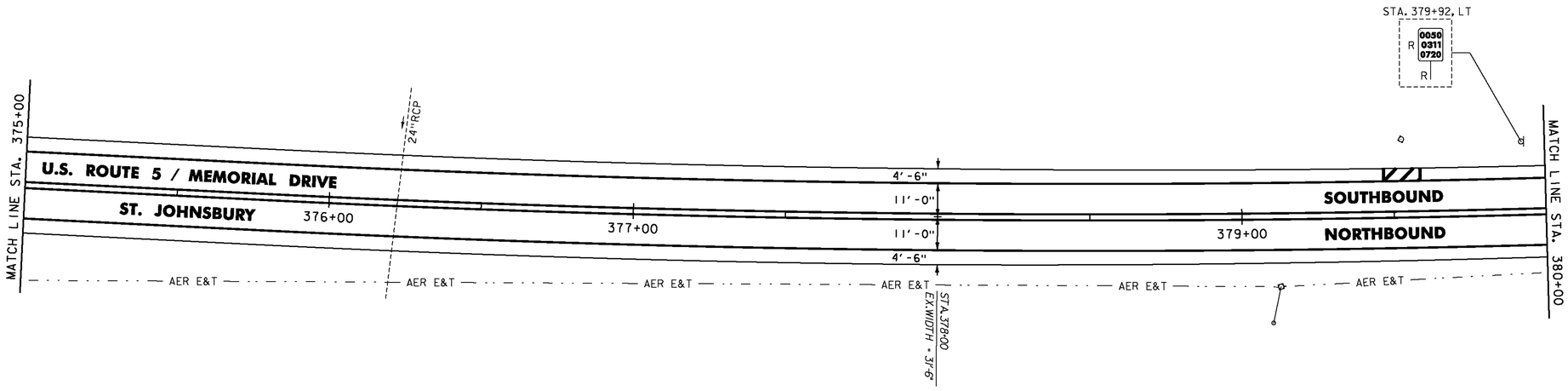
MILLED RUMBLE STRIPS
STA. 375+00 TO 380+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 375+00 TO 380+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 375+00 TO 380+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 379+47 TO 379+59, LT (HYDRANT)
SEE SHEET 29

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #27

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262127.i

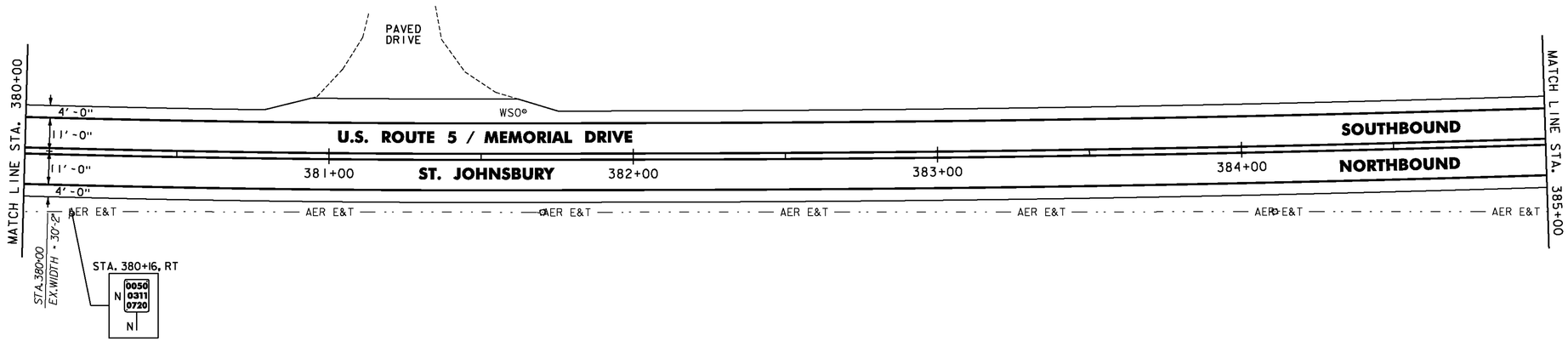
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 59 OF 133

MILLED RUMBLE STRIPS
STA. 380+00 TO 385+00, ℄

ADJUST ELEVATION OF VALVE BOX
STA. 381+64, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 380+00 TO 385+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 380+00 TO 385+00, SOLID LT & RT

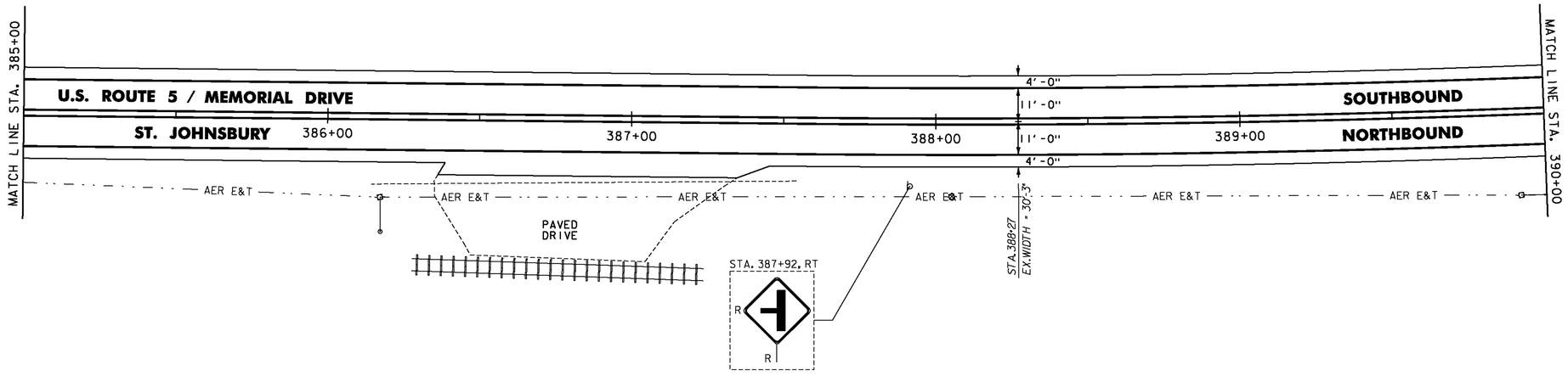


MILLED RUMBLE STRIPS
STA. 385+00 TO 390+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 385+00 TO 390+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 385+00 TO 390+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #28

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262128.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 60 OF 133

MILLED RUMBLE STRIPS
STA. 390+00 TO 395+00, ℄
(BREAK FOR SIDE ROADS PER DETAIL ON SHEET 27)

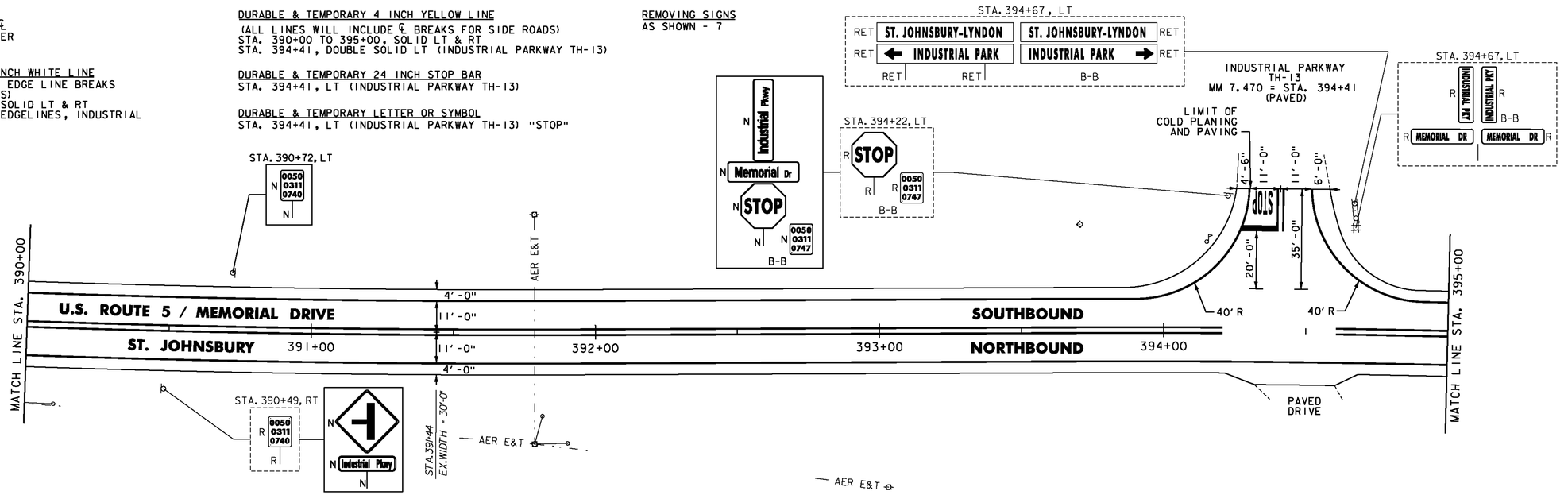
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 390+00 TO 395+00, SOLID LT & RT
STA. 394+41, SOLID LT (EDGELINES, INDUSTRIAL PARKWAY TH-13)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 390+00 TO 395+00, SOLID LT & RT
STA. 394+41, DOUBLE SOLID LT (INDUSTRIAL PARKWAY TH-13)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 394+41, LT (INDUSTRIAL PARKWAY TH-13)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 394+41, LT (INDUSTRIAL PARKWAY TH-13) "STOP"

REMOVING SIGNS
AS SHOWN - 7

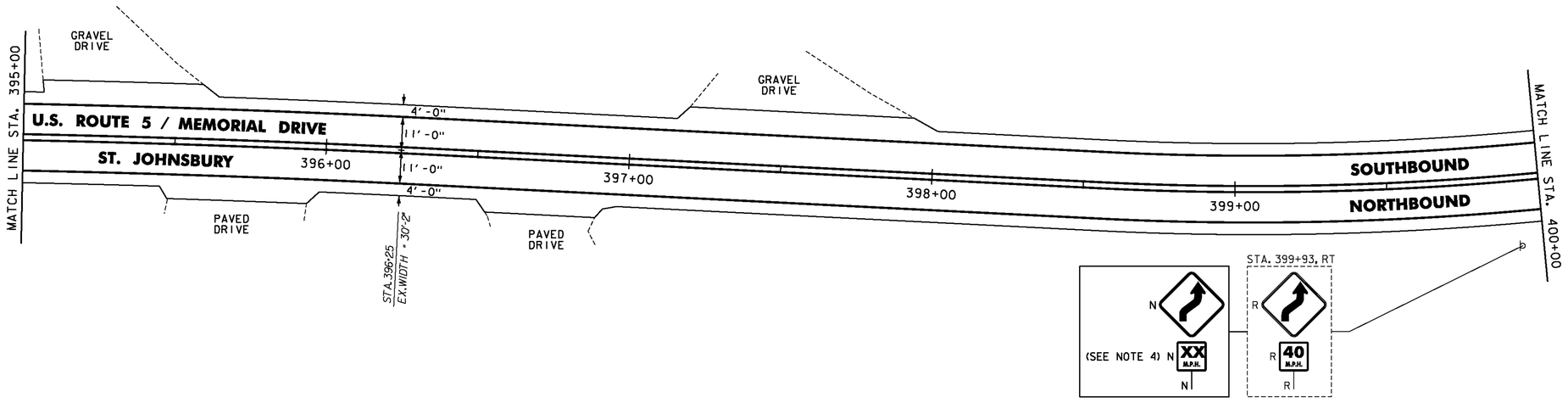


MILLED RUMBLE STRIPS
STA. 395+00 TO 400+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 395+00 TO 400+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 395+00 TO 400+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. THE ADVISORY SPEED SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER USING AN ESTABLISHED ENGINEERING PRACTICE AS LISTED IN SECTION 2C.08 OF THE MUTCD.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #29

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

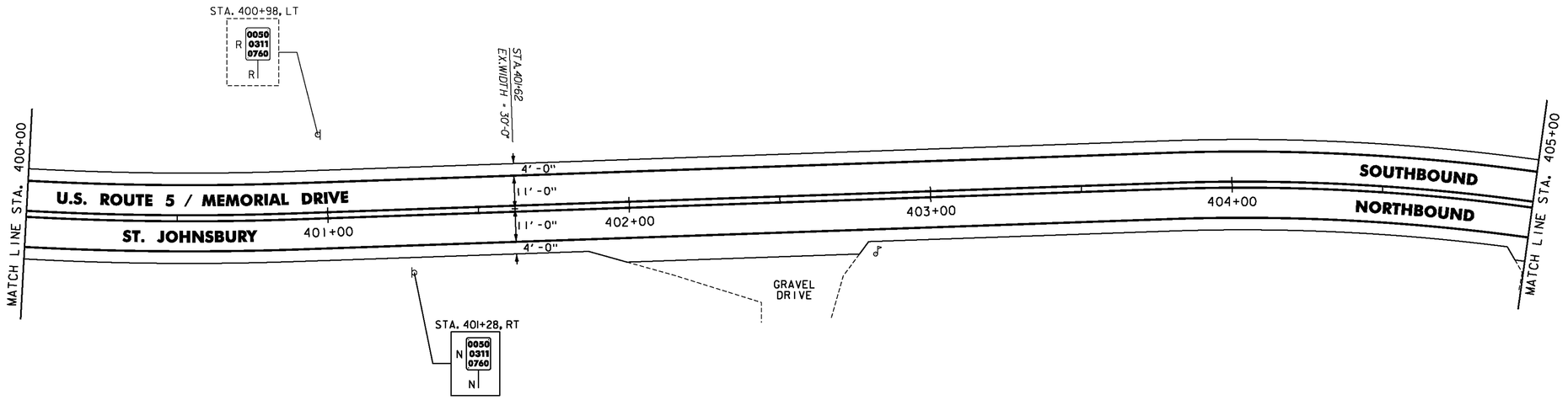
FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262129.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 61 OF 133

MILLED RUMBLE STRIPS
STA. 400+00 TO 405+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 400+00 TO 405+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 400+00 TO 405+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1

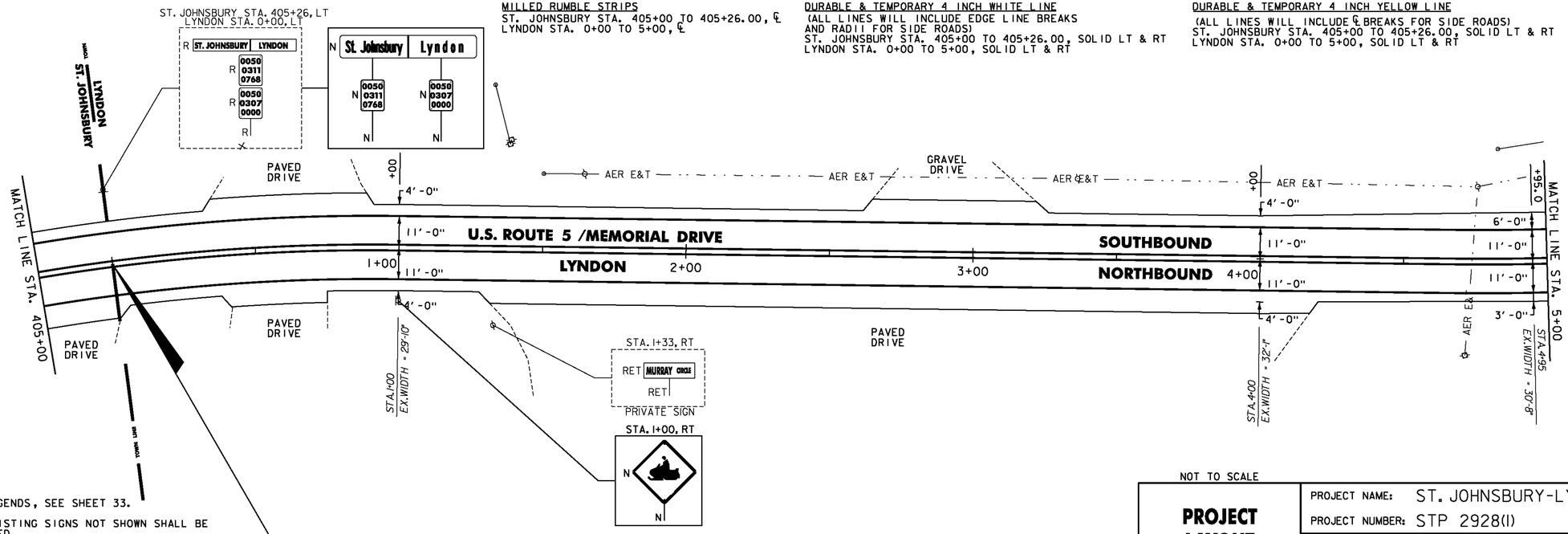


MILLED RUMBLE STRIPS
ST. JOHNSBURY STA. 405+00 TO 405+26.00, ℄
LYNDON STA. 0+00 TO 5+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
ST. JOHNSBURY STA. 405+00 TO 405+26.00, SOLID LT & RT
LYNDON STA. 0+00 TO 5+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
ST. JOHNSBURY STA. 405+00 TO 405+26.00, SOLID LT & RT
LYNDON STA. 0+00 TO 5+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 3



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

ST. JOHNSBURY U.S. ROUTE 5 P.O.C. STA. 405+26.00 BACK = LYNDON U.S. ROUTE 5 P.O.C. STA. 0+00.00 AHEAD

NOT TO SCALE

PROJECT LAYOUT SHEET #30

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I30.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 62 OF 133

MILLED RUMBLE STRIPS
STA. 5+00 TO 10+00, ℄
(BREAK FOR SIDE ROADS PER DETAIL ON SHEET 27)

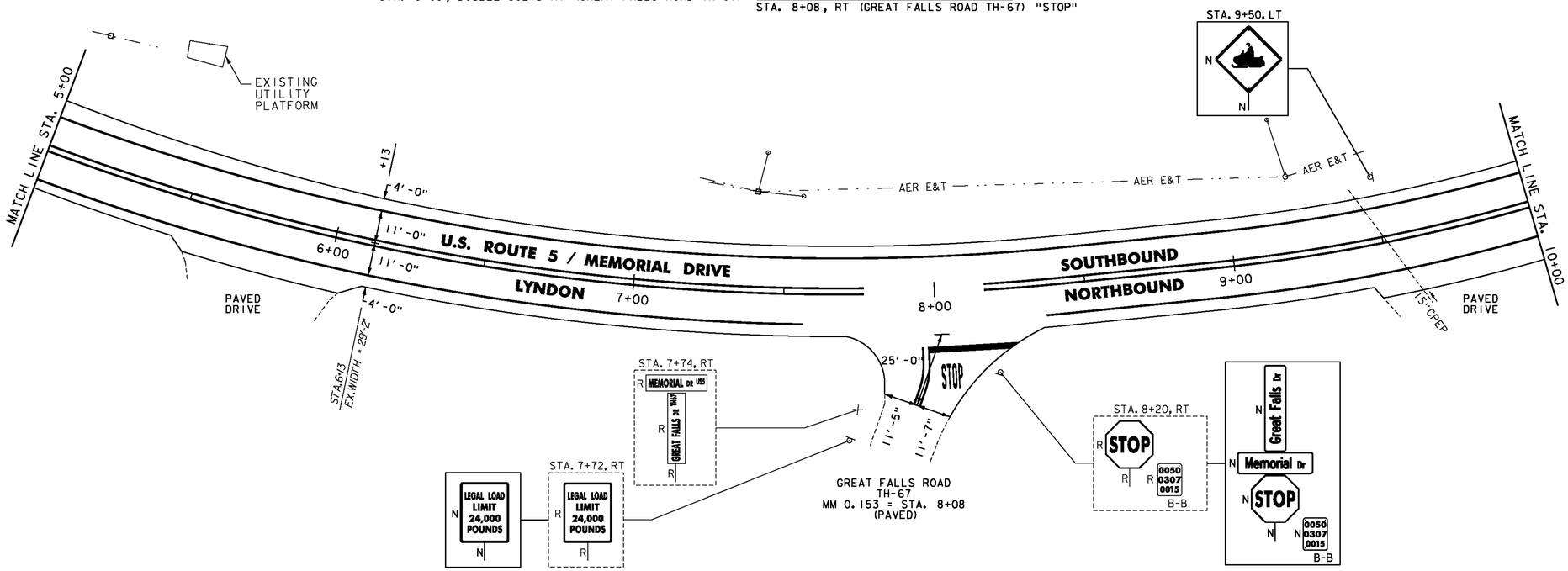
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 5+00 TO 10+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 5+00 TO 10+00, SOLID LT & RT
STA. 8+08, DOUBLE SOLID RT (GREAT FALLS ROAD TH-67)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 8+08, RT (GREAT FALLS ROAD TH-67)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 8+08, RT (GREAT FALLS ROAD TH-67) "STOP"

REMOVING SIGNS
AS SHOWN - 5

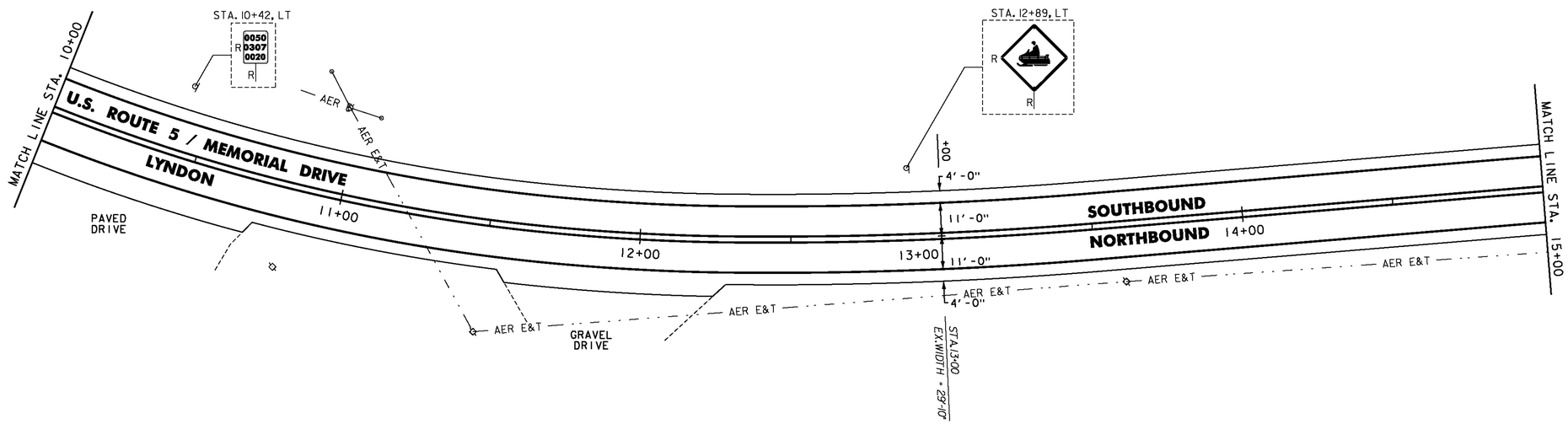


MILLED RUMBLE STRIPS
STA. 10+00 TO 15+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 10+00 TO 15+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 10+00 TO 15+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #31

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262131.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 63 OF 133

MILLED RUMBLE STRIPS
STA. 15+00 TO 20+00, ℄

STONE FILL, TYPE I
STA. 15+87 TO 16+07, RT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 16+08 TO 17+46.5, RT
STA. 16+48 TO 17+85.5, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 16+08, RT
STA. 16+48, LT
STA. 17+46.5, RT
STA. 17+85.5, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 16+07 TO 17+45, RT
STA. 16+47.5 TO 17+83, LT

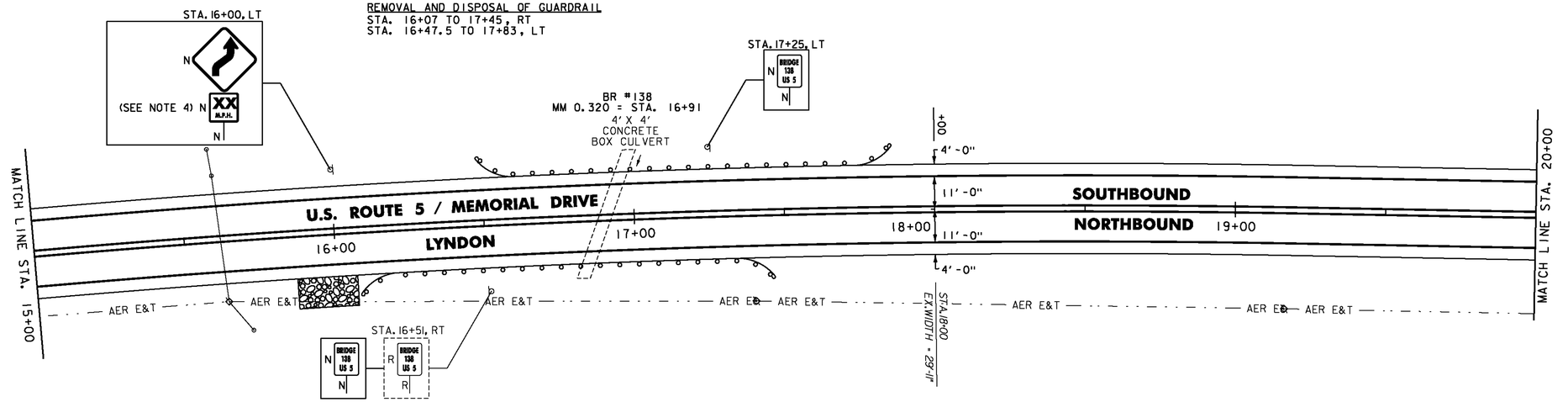
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 15+00 TO 20+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 15+00 TO 20+00, SOLID LT & RT

GEOTEXTILE UNDER STONE FILL
STA. 15+87 TO 16+07, RT

GRUBBING MATERIAL
STA. 15+87 TO 16+07, RT

REMOVING SIGNS
AS SHOWN - 1



MILLED RUMBLE STRIPS
STA. 20+00 TO 25+00, ℄

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 20+86.5 TO 22+46, LT
STA. 21+41 TO 23+01, RT

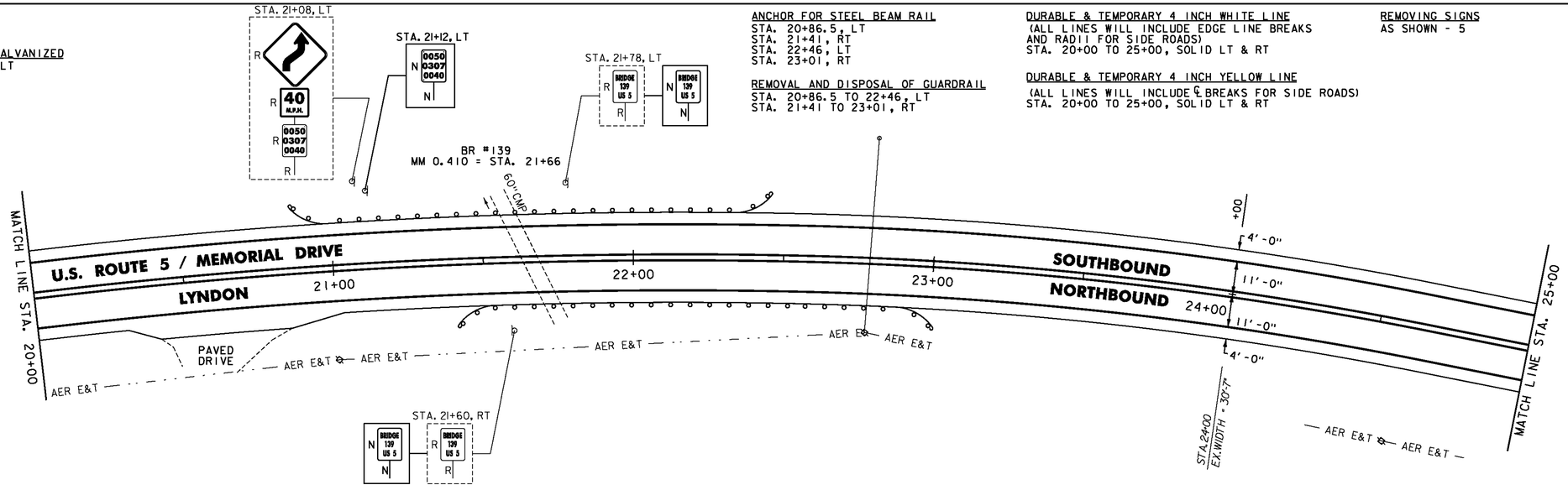
ANCHOR FOR STEEL BEAM RAIL
STA. 20+86.5, LT
STA. 21+41, RT
STA. 22+46, LT
STA. 23+01, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 20+86.5 TO 22+46, LT
STA. 21+41 TO 23+01, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 20+00 TO 25+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 20+00 TO 25+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 5



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. THE ADVISORY SPEED SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER USING AN ESTABLISHED ENGINEERING PRACTICE AS LISTED IN SECTION 2C.08 OF THE MUTCD.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #32

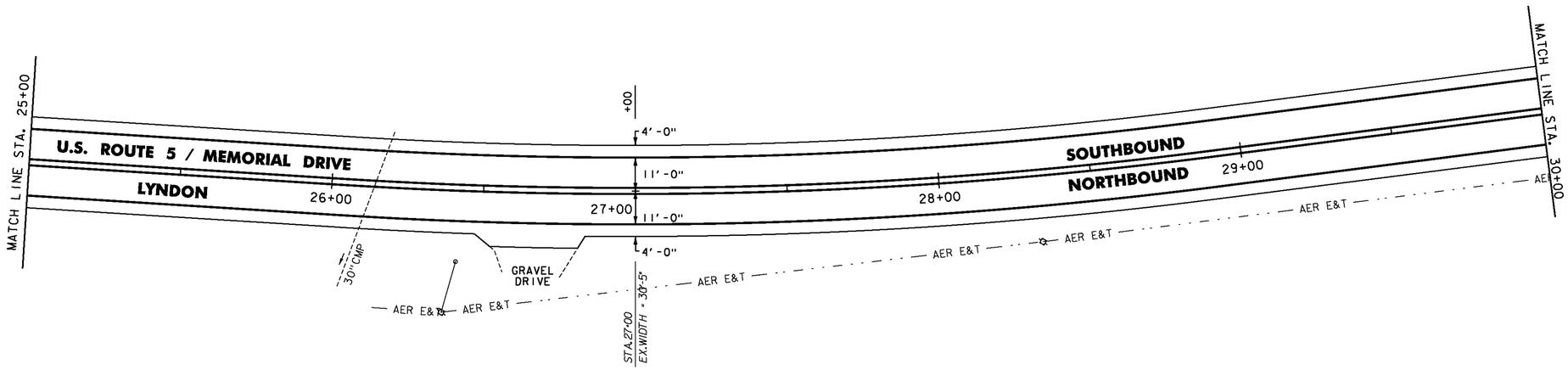
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I32.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 64 OF 133

MILLED RUMBLE STRIPS
STA. 25+00 TO 30+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 25+00 TO 30+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 25+00 TO 30+00, SOLID LT & RT

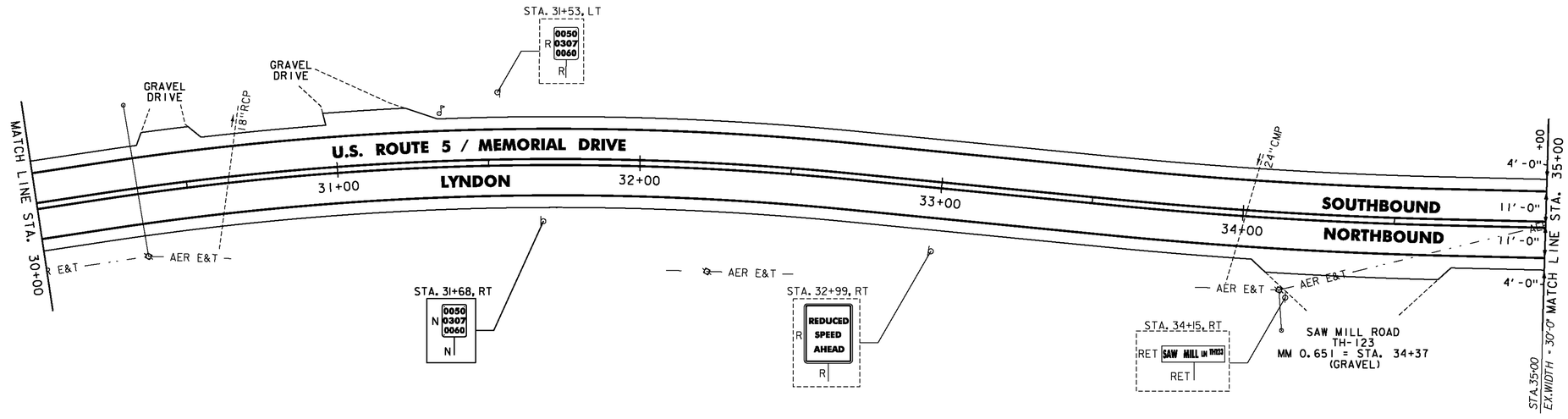


MILLED RUMBLE STRIPS
STA. 30+00 TO 35+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 30+00 TO 35+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 30+00 TO 35+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #33

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262133.i

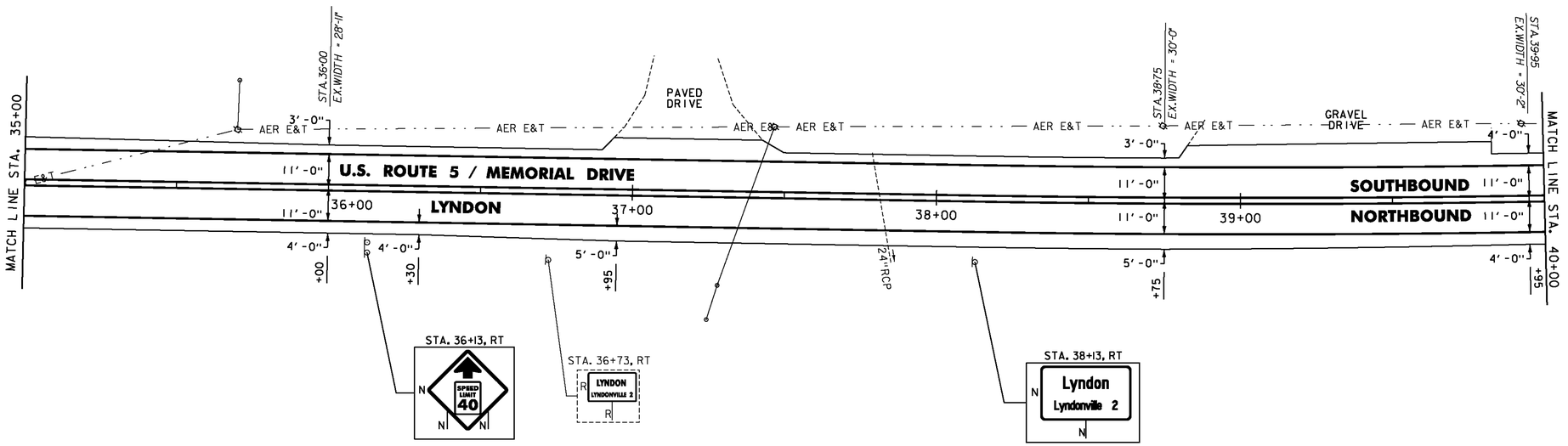
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 65 OF 133

MILLED RUMBLE STRIPS
STA. 35+00 TO 36+00, ℄

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 35+00 TO 40+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 35+00 TO 40+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 1



DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 40+00 TO 45+00, SOLID LT & RT
STA. 44+20, SOLID LT (EDGELINES, INDUSTRIAL PARK TH-78)
STA. 44+20, SOLID LT (LANE LINE, INDUSTRIAL PARK TH-78)

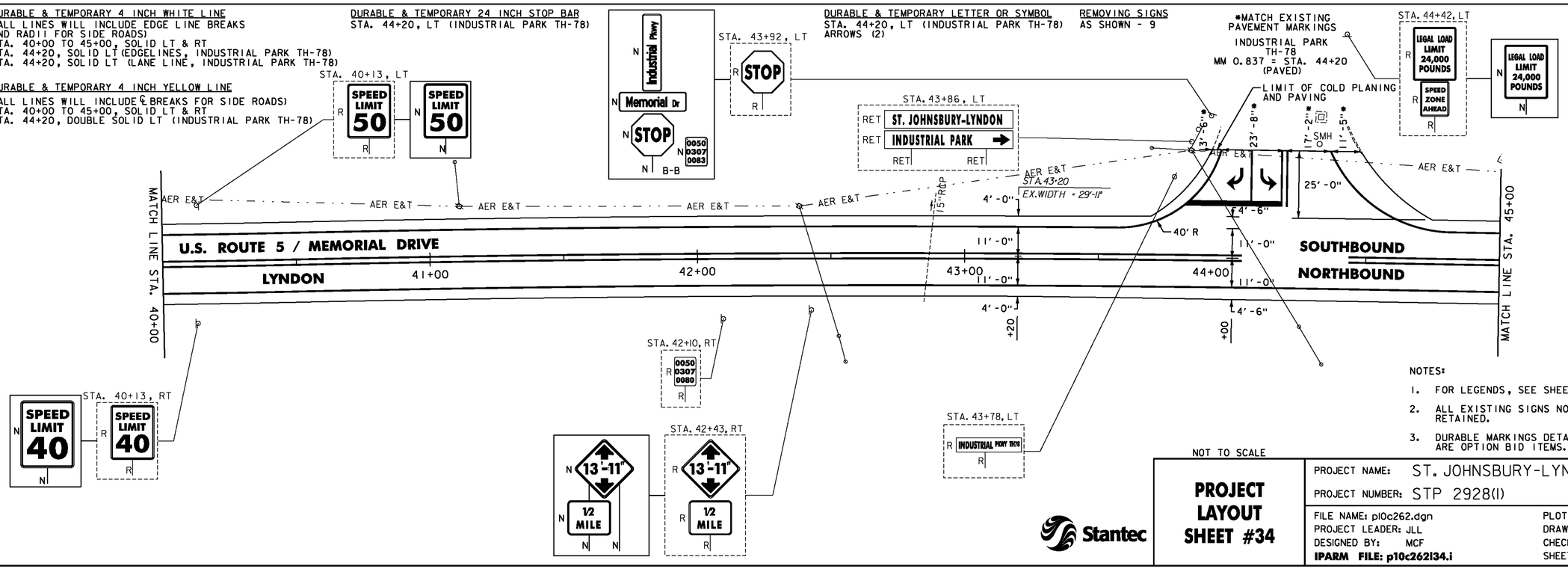
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 40+00 TO 45+00, SOLID LT & RT
STA. 44+20, DOUBLE SOLID LT (INDUSTRIAL PARK TH-78)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 44+20, LT (INDUSTRIAL PARK TH-78)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 44+20, LT (INDUSTRIAL PARK TH-78)
ARROWS (2)

REMOVING SIGNS
AS SHOWN - 9

*MATCH EXISTING PAVEMENT MARKINGS
INDUSTRIAL PARK TH-78
MM 0.837 = STA. 44+20 (PAVED)



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #34

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I34.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 66 OF 133

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 45+31.5 TO 48+61.0, LT

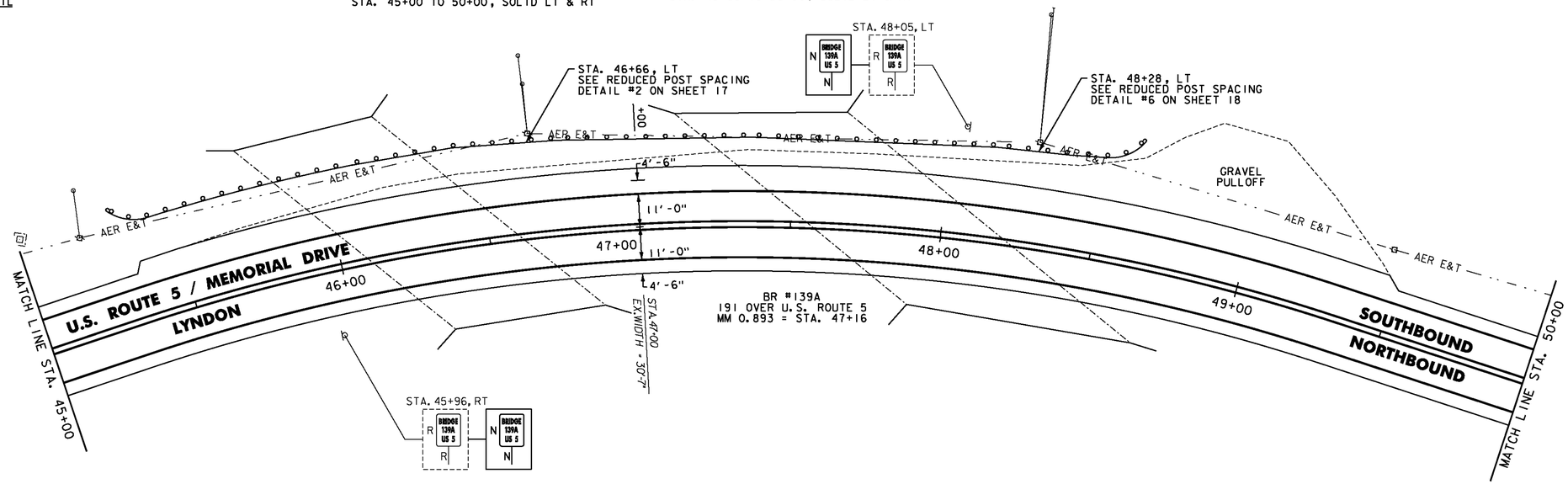
ANCHOR FOR STEEL BEAM RAIL
STA. 45+31.5, LT
STA. 48+61.0, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 45+29.0 TO 48+64.0, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 45+00 TO 50+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 45+00 TO 50+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2

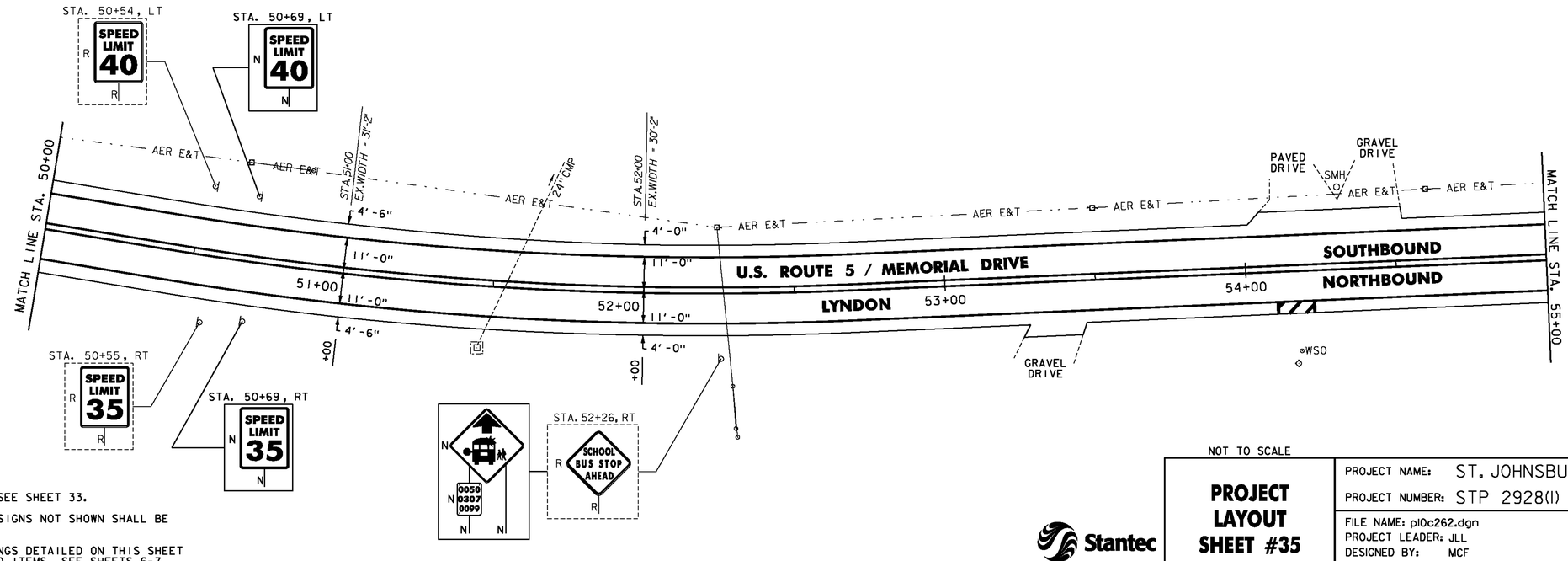


DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 50+00 TO 55+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 50+00 TO 55+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 54+10 TO 54+22, RT (HYDRANT)
SEE SHEET 29

REMOVING SIGNS
AS SHOWN - 3



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #35

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262135.i

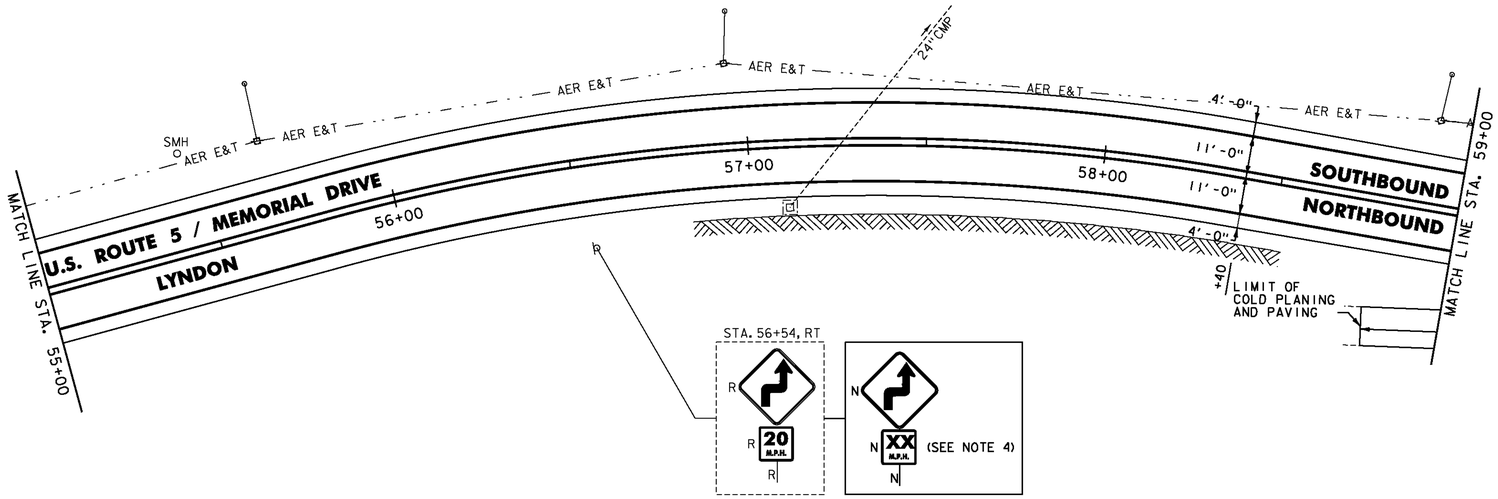
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 67 OF 133

THINNING AND TRIMMING FOR SIGNS
STA. 56+54, RT
(SEE DETAIL ON SHEET 31)

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 55+00 TO 59+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 55+00 TO 59+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2

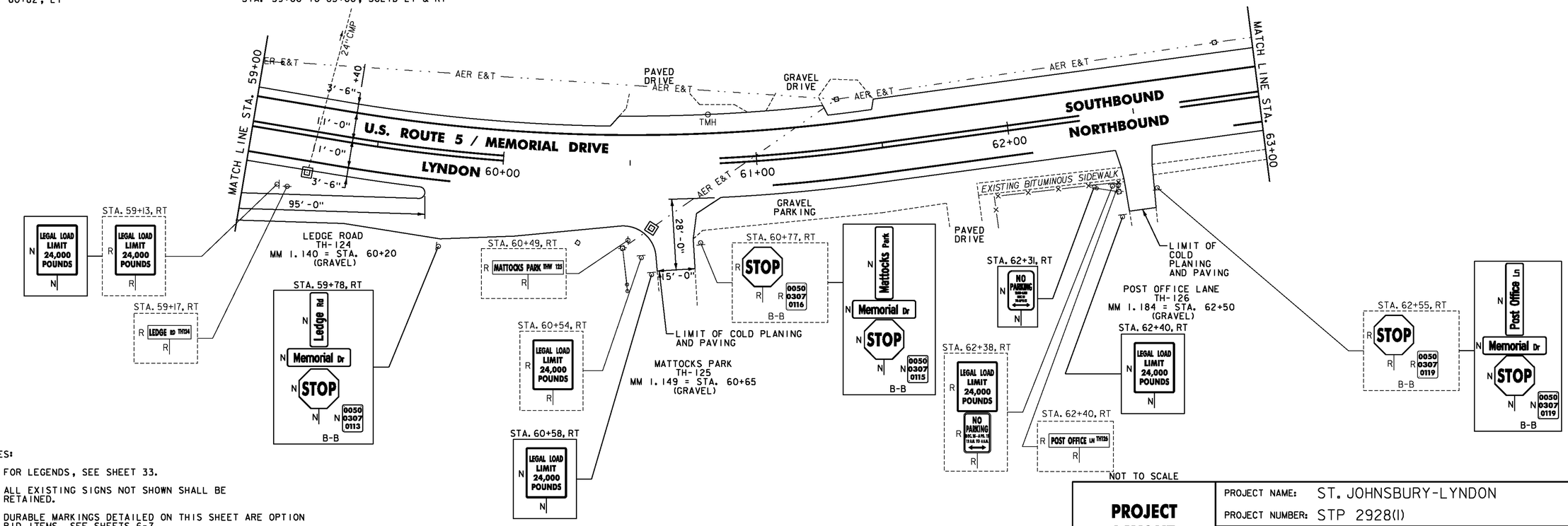


REHAB. Dis. CBs OR MHs. CLASS I OR II
STA. 59+24, RT
STA. 60+58, RT
STA. 60+82, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 59+00 TO 63+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 59+00 TO 63+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 11



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. THE ADVISORY SPEED SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER USING AN ESTABLISHED ENGINEERING PRACTICE AS LISTED IN SECTION 2C.08 OF THE MUTCD.

NOT TO SCALE

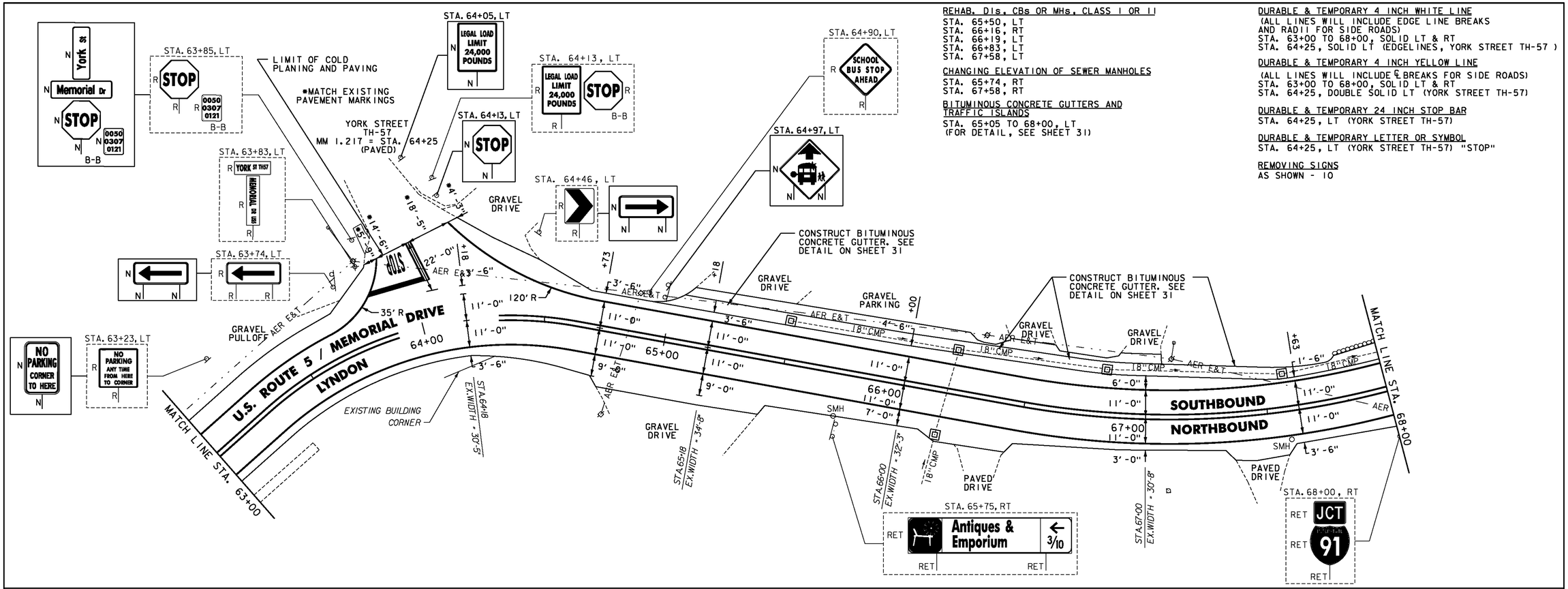
Stantec

PROJECT LAYOUT SHEET #36

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262136.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 68 OF 133



REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 65+50, LT
STA. 66+16, RT
STA. 66+19, LT
STA. 66+83, LT
STA. 67+58, LT

CHANGING ELEVATION OF SEWER MANHOLES
STA. 65+74, RT
STA. 67+58, RT

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 65+05 TO 68+00, LT
(FOR DETAIL, SEE SHEET 31)

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 63+00 TO 68+00, SOLID LT & RT
STA. 64+25, SOLID LT (EDGELINES, YORK STREET TH-57)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 63+00 TO 68+00, SOLID LT & RT
STA. 64+25, DOUBLE SOLID LT (YORK STREET TH-57)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 64+25, LT (YORK STREET TH-57)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 64+25, LT (YORK STREET TH-57) "STOP"

REMOVING SIGNS
AS SHOWN - 10

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 68+22, LT
STA. 68+83, LT
STA. 68+86, LT

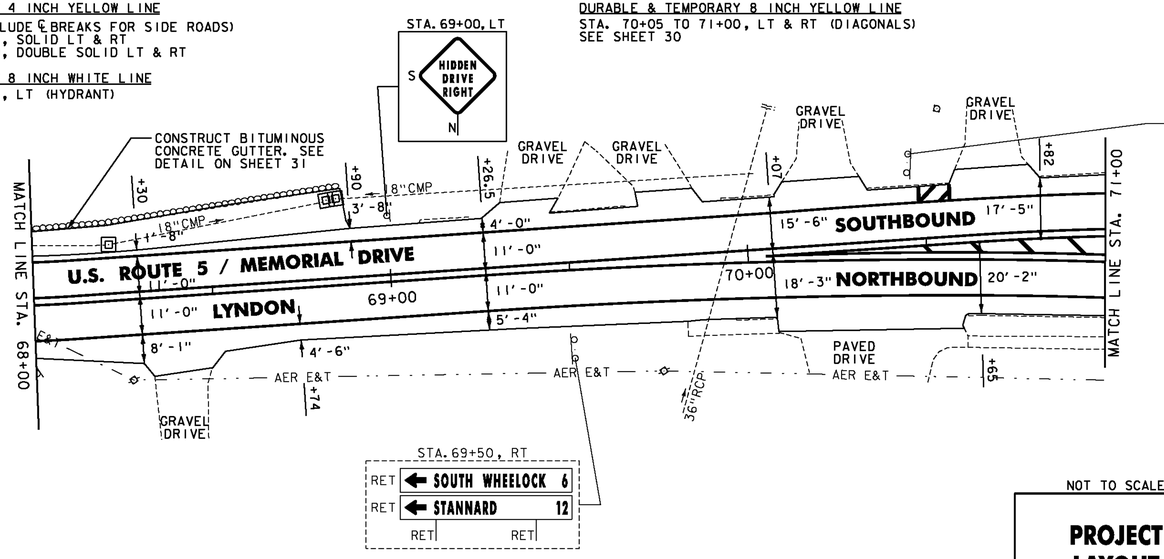
BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 68+00 TO 68+88, LT
FOR DETAIL, SEE SHEET 31

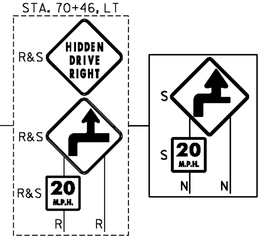
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 68+00 TO 71+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 68+00 TO 70+05, SOLID LT & RT
STA. 70+05 TO 71+00, DOUBLE SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 70+48 TO 70+57, LT (HYDRANT)
SEE SHEET 29

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 70+05 TO 71+00, LT & RT (DIAGONALS)
SEE SHEET 30





REMOVING SIGNS
AS SHOWN - 3

ERECTING SALVAGED SIGNS
AS SHOWN - 3

NOTES:
1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

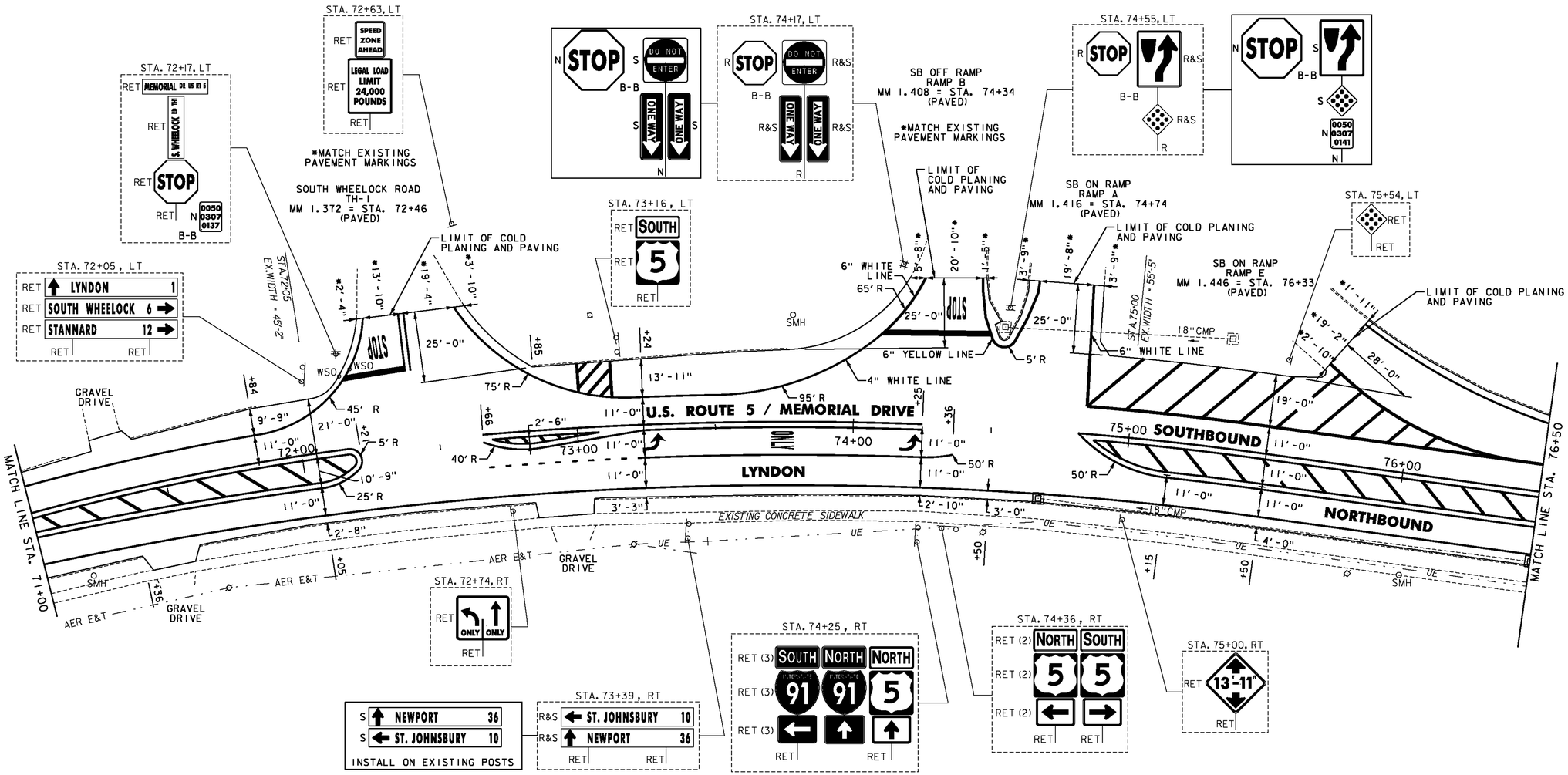
NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #37

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I37.I
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 69 OF 133



REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 74+69, RT
STA. 76+50, RT

ADJUST ELEVATION OF VALVE BOX
STA. 72+17, LT
STA. 72+21, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 71+00 TO 76+50, SOLID LT & RT
STA. 72+46, SOLID LT (EDGELINES, SOUTH WHEELOCK ROAD TH-1)
STA. 72+66 TO 73+24, DOTTED RT (LANE LINE)
STA. 73+24 TO 74+36, SOLID RT (LANE LINE)
STA. 76+33, SOLID LT (EDGELINE, SB ON RAMP E)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 71+00 TO 72+20, DOUBLE SOLID LT & RT
STA. 72+46, DOUBLE SOLID LT (SOUTH WHEELOCK ROAD TH-1)
STA. 72+66 TO 73+08, DOUBLE SOLID LT & RT
STA. 73+08 TO 76+50, SOLID LT & RT
STA. 74+82 TO 76+50, DOUBLE SOLID RT

DURABLE & TEMPORARY 6 INCH WHITE LINE
STA. 74+34, LT (SB OFF RAMP B)
STA. 74+74, LT (SB ON RAMP A)

DURABLE & TEMPORARY 6 INCH YELLOW LINE
STA. 74+34, LT (SB OFF RAMP B)
STA. 74+74, LT (SB ON RAMP A)

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 73+01 TO 73+13, LT (HYDRANT)
SEE SHEET 29
STA. 74+83 TO 76+50, LT (GORE & DIAGONALS)

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 71+00 TO 72+21, LT & RT (DIAGONALS)
SEE SHEET 30
STA. 72+69 TO 73+08, LT & RT (DIAGONALS)
SEE SHEET 30
STA. 74+83 TO 76+50, LT (GORE & DIAGONALS)
SEE SHEET 30
STA. 74+87 TO 76+50, RT (DIAGONALS)
SEE SHEET 30

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 72+46, LT (SOUTH WHEELOCK ROAD TH-1)
STA. 74+34, LT (SB OFF RAMP B)

DURABLE LETTER OR SYMBOL
STA. 72+46, LT (SOUTH WHEELOCK ROAD TH-1) "STOP"
STA. 73+28, RT ARROW
STA. 73+74, RT "ONLY"
STA. 74+21, RT ARROW
STA. 74+34, LT (SB OFF RAMP B) "STOP"

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 72+46, LT (SOUTH WHEELOCK ROAD TH-1) "STOP"
STA. 73+28, RT ARROW
STA. 74+21, RT ARROW
STA. 74+34, LT (SB OFF RAMP B) "STOP"

REMOVING SIGNS
AS SHOWN - 9

ERECTING SALVAGED SIGNS
AS SHOWN - 7

NOTES:
1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #38

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I38.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 70 OF 133

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 78+22, LT
STA. 78+23, RT

CHANGING ELEVATION OF SEWER MANHOLES
STA. 78+45, LT
STA. 80+97, LT

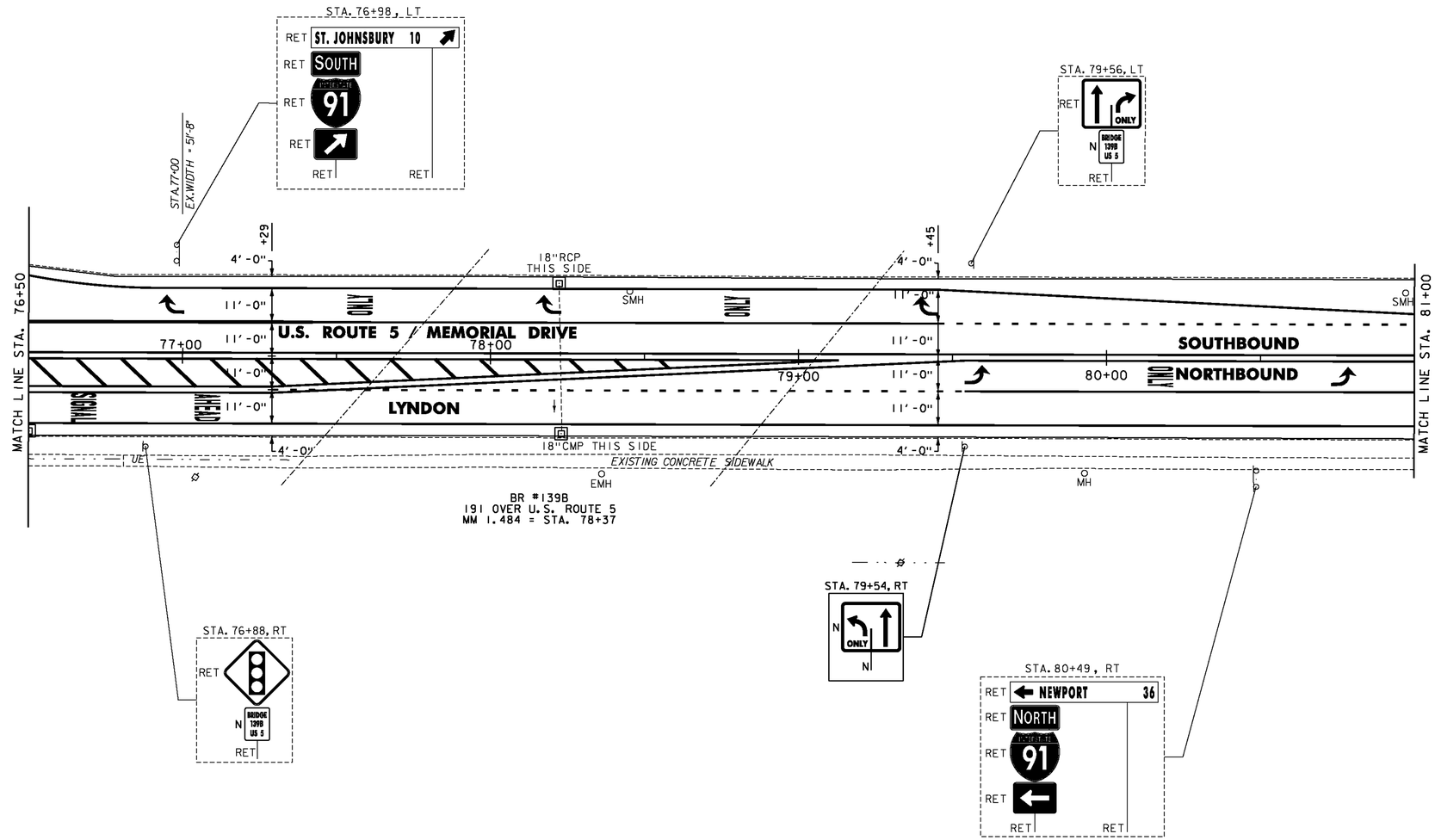
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 76+50 TO 81+00, SOLID LT & RT
STA. 77+29 TO 79+54, DOTTED RT (LANE LINE)
STA. 77+42 TO 79+45, SOLID LT (LANE LINE)
STA. 79+45 TO 81+00, DOTTED LT (LANE LINE)
STA. 79+54 TO 81+00, SOLID RT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 76+50 TO 81+00, SOLID LT & RT
STA. 76+50 TO 79+54, DOUBLE SOLID RT

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 76+50 TO 79+13, RT (GORE & DIAGONALS)
SEE SHEET 30

DURABLE LETTER OR SYMBOL
STA. 76+68, RT "SIGNAL"
STA. 76+96, LT ARROW
STA. 77+08, RT "AHEAD"
STA. 77+57, LT "ONLY"
STA. 78+19, LT ARROW
STA. 78+80, LT "ONLY"
STA. 79+41, LT ARROW
STA. 79+58, RT ARROW
STA. 80+18, RT "ONLY"
STA. 80+77, RT ARROW

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 76+68, RT "SIGNAL"
STA. 76+96, LT ARROW
STA. 77+08, RT "AHEAD"
STA. 78+19, LT ARROW
STA. 79+41, LT ARROW
STA. 79+58, RT ARROW
STA. 80+77, RT ARROW



NOTES:
1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #39

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I39.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 71 OF 133

REHAB. Dis. CBs OR MHs. CLASS I OR II
STA. 82+84, LT
STA. 83+03, RT
STA. 85+33, LT
STA. 85+33, RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. 82+14, RT
STA. 82+71, RT
STA. 84+65, RT
STA. 85+22, RT

DETECTABLE WARNING SURFACE
STA. 82+14, RT
STA. 82+71, RT
STA. 84+65, RT
STA. 85+22, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 81+00 TO 81+70, DOTTED LT (LANE LINE)
STA. 81+00 TO 86+25, SOLID LT & RT
STA. 81+00 TO 82+18, SOLID RT (LANE LINE)
STA. 82+53, SOLID LT (EDGELINE, NB ON RAMP D)
STA. 82+57, SOLID RT (EDGELINE, NB OFF RAMP C)
STA. 82+70 TO 84+44, SOLID LT (LANE LINE)
STA. 82+90 TO 83+90, DOTTED RT (LANE LINE)
STA. 83+90 TO 84+42, SOLID RT (LANE LINE)
STA. 84+70, SOLID LT (EDGELINES, BACK CENTER ROAD TH-10)
STA. 84+97, SOLID RT (EDGELINES, CALKINS DRIVE TH-65)
STA. 85+36 TO 86+25, SOLID ℄ (LANE LINE)
STA. 85+36 TO 86+25, SOLID LT (LANE LINE)

DURABLE 24" STOP BAR
STA. 82+57, RT (NB OFF RAMP C)
STA. 84+43, RT
STA. 84+70, LT (BACK CENTER ROAD TH-10)
STA. 84+97, RT (CALKINS DRIVE TH-65)
STA. 85+35, LT.-RT.

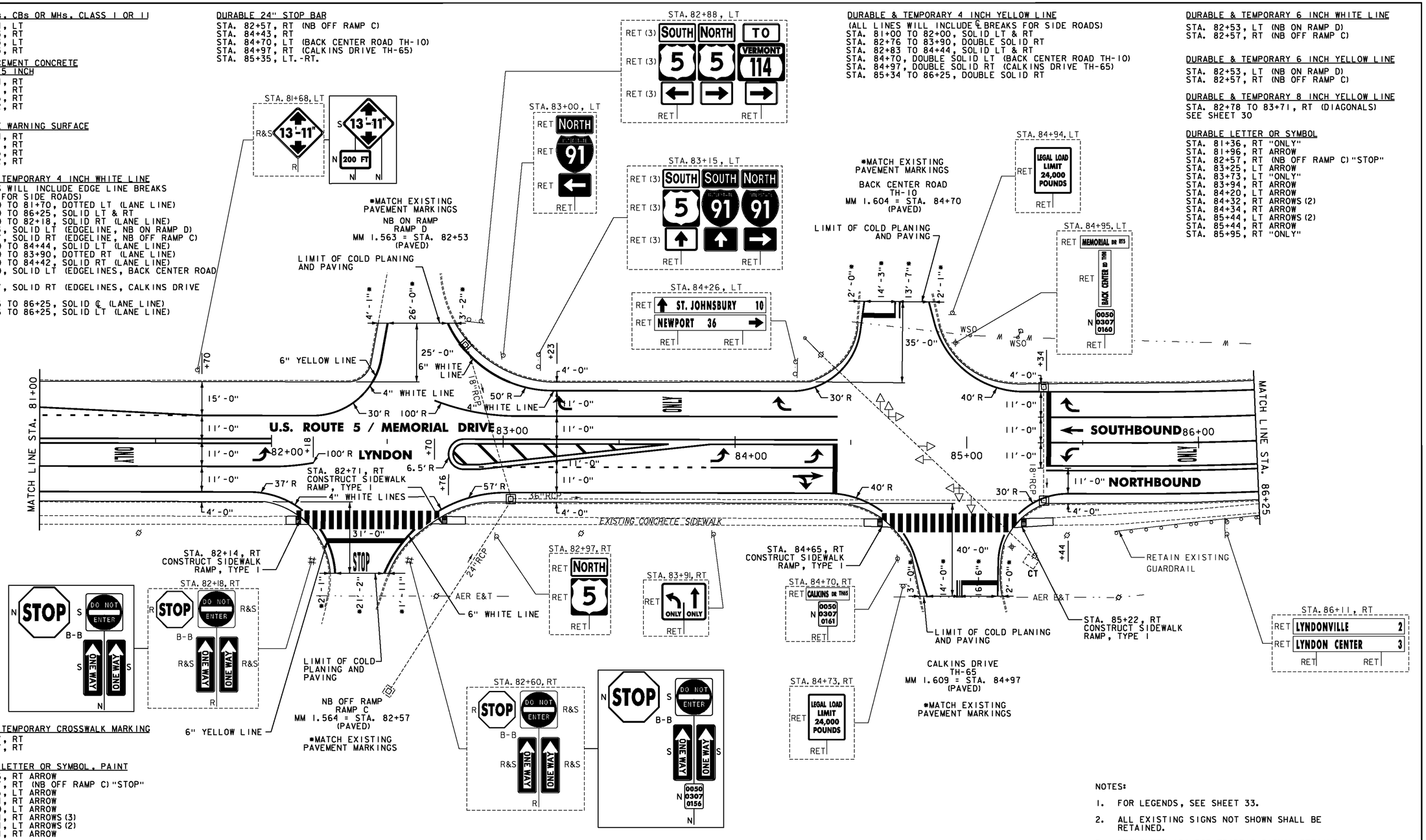
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 81+00 TO 82+00, SOLID LT & RT
STA. 82+76 TO 83+90, DOUBLE SOLID RT
STA. 82+83 TO 84+44, SOLID LT & RT
STA. 84+70, DOUBLE SOLID LT (BACK CENTER ROAD TH-10)
STA. 84+97, DOUBLE SOLID RT (CALKINS DRIVE TH-65)
STA. 85+34 TO 86+25, DOUBLE SOLID RT

DURABLE & TEMPORARY 6 INCH WHITE LINE
STA. 82+53, LT (NB ON RAMP D)
STA. 82+57, RT (NB OFF RAMP C)

DURABLE & TEMPORARY 6 INCH YELLOW LINE
STA. 82+53, LT (NB ON RAMP D)
STA. 82+57, RT (NB OFF RAMP C)

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 82+78 TO 83+71, RT (DIAGONALS)
SEE SHEET 30

DURABLE LETTER OR SYMBOL
STA. 81+36, RT "ONLY"
STA. 81+96, RT ARROW
STA. 82+57, RT (NB OFF RAMP C) "STOP"
STA. 83+25, LT ARROW
STA. 83+73, LT "ONLY"
STA. 83+94, RT ARROW
STA. 84+20, LT ARROW
STA. 84+32, RT ARROWS (2)
STA. 84+34, RT ARROW
STA. 85+44, LT ARROWS (2)
STA. 85+44, RT ARROW
STA. 85+95, RT "ONLY"



DURABLE & TEMPORARY CROSSWALK MARKING
STA. 82+57, RT
STA. 84+97, RT

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 81+96, RT ARROW
STA. 82+57, RT (NB OFF RAMP C) "STOP"
STA. 83+25, LT ARROW
STA. 83+94, RT ARROW
STA. 84+20, LT ARROW
STA. 84+34, RT ARROWS (3)
STA. 85+44, LT ARROWS (2)
STA. 85+44, RT ARROW

REMOVING SIGNS
AS SHOWN - 9

ERECTING SALVAGED SIGNS
AS SHOWN - 7

NOTES:
1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. SEE SHEET 131 FOR TRAFFIC SIGNAL DETAILS.
4. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #40

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I40.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 72 OF 133

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 90+53, LT

REMOVING AND RESETTING CURB
STA. 90+38, RT

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 87+95, LT
(FOR DETAIL, SEE SHEET 31)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. 90+38, RT

DETECTABLE WARNING SURFACE
STA. 90+38, RT

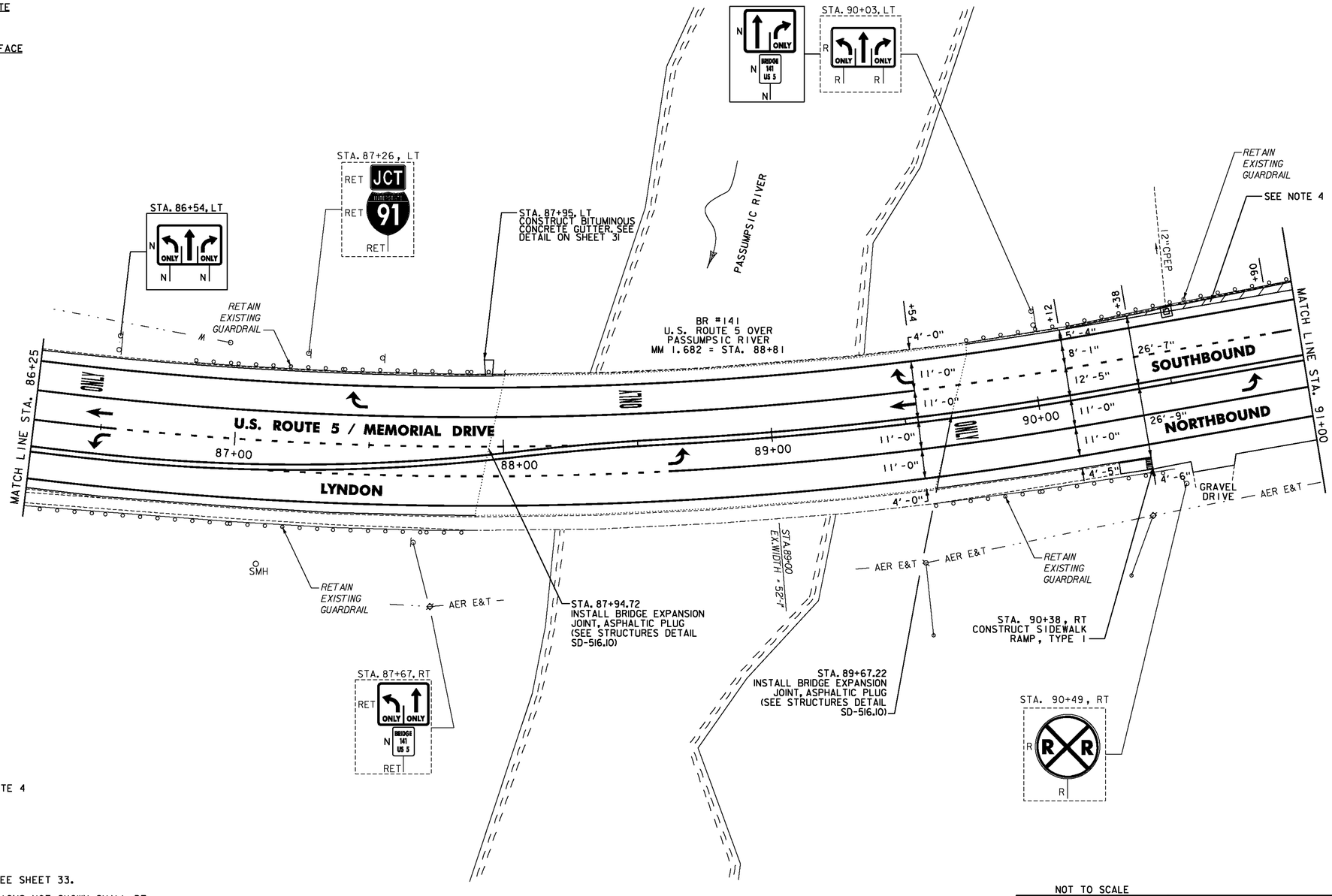
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 86+25 TO 91+00, SOLID LT & RT
STA. 86+25 TO 86+54, SOLID ℄ (LANE LINE)
STA. 86+25 TO 89+54, SOLID LT (LANE LINE)
STA. 86+54 TO 88+61, DOTTED ℄ (LANE LINE)
STA. 87+07 TO 88+61, DOTTED RT (LANE LINE)
STA. 88+61 TO 91+00, SOLID RT (LANE LINE)
STA. 89+54 TO 90+90, DOTTED LT (LANE LINE)
STA. 90+90 TO 91+00, DASHED LT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 86+25 TO 88+61, DOUBLE SOLID RT
STA. 88+61 TO 91+00, SOLID LT & RT

DURABLE LETTER OR SYMBOL
STA. 86+45, LT "ONLY"
STA. 86+50, LT ARROW
STA. 86+50, RT ARROW
STA. 87+45, LT ARROW
STA. 88+49, LT "ONLY"
STA. 88+65, RT ARROW
STA. 89+50, LT ARROWS (2)
STA. 89+72, RT "ONLY"
STA. 90+80, RT ARROW

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 86+50, LT ARROW
STA. 86+50, RT ARROW
STA. 87+45, LT ARROW
STA. 88+65, RT ARROW
STA. 89+50, LT ARROWS (2)
STA. 90+80, RT ARROW

REMOVING SIGNS
AS SHOWN - 2



SEE NOTE 4

NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. EXCAVATE HATCHED AREA A MINIMUM OF FOUR INCHES, PAID FOR AS ITEM 203.15 COMMON EXCAVATION. INSTALL FOUR INCHES OF TOPSOIL, THEN SEED, FERTILIZER, LIMESTONE AND TEMPORARY EROSION MATTING PER APPLICATION RATES ON SHEET 4.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #41

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262141.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 73 OF 133

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 95+23, LT
STA. 95+55, RT

ADJUST ELEVATION OF VALVE BOX
STA. 95+67, LT

CAST-IN-PLACE CONCRETE CURB, TYPE B
STA. 93+87 TO 94+32, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 91+00 TO 96+00, SOLID LT & RT
STA. 91+00 TO 92+90, DASHED LT (LANE LINE)
STA. 91+00 TO 93+05, SOLID RT (LANE LINE)
STA. 93+23, SOLID LT (EDGELINES, PAVED LOT)
STA. 94+97, SOLID RT (EDGELINES, RED VILLAGE ROAD TH-2)
STA. 95+37 TO 96+00, SOLID LT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 91+00 TO 92+90, SOLID LT & RT
STA. 93+38 TO 94+85, DOUBLE SOLID LT & RT
STA. 94+97, DOUBLE SOLID RT (RED VILLAGE ROAD TH-2)
STA. 95+50 TO 96+00, DOUBLE SOLID RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 95+64 TO 95+76, LT (HYDRANT)
SEE SHEET 29

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 93+38 TO 94+85, LT.-RT.

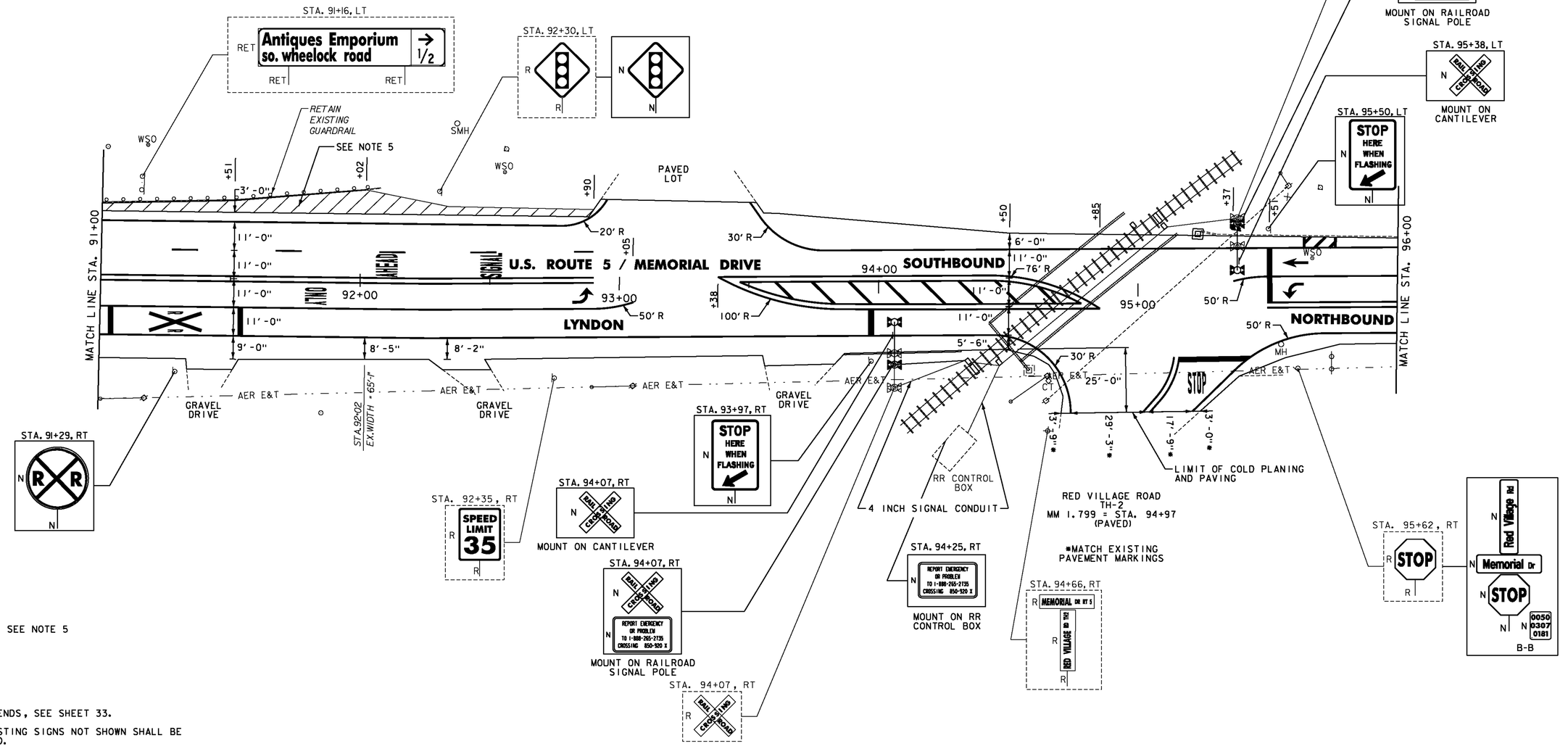
DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 93+97, RT
STA. 94+97, RT (RED VILLAGE ROAD TH-2)
STA. 95+51, RT.-LT.

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 91+83, RT "ONLY"
STA. 92+10, LT "AHEAD"
STA. 92+50, LT "SIGNAL"
STA. 92+86, RT ARROW
STA. 94+97, RT "STOP"
STA. 95+60, LT ARROW(2)

DURABLE & TEMPORARY RAILROAD CROSSING SYMBOL
STA. 91+29, RT.

TEMPORARY LETTER OR SYMBOL, PAINT
STA. 92+10, LT "AHEAD"
STA. 92+50, LT "SIGNAL"
STA. 92+86, RT ARROW
STA. 94+97, RT "STOP"
STA. 95+60, LT ARROW(2)

REMOVING SIGNS
AS SHOWN - 7



SEE NOTE 5

NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. FOR RAILROAD CROSSING DETAILS, SEE SHEETS 22-26.
5. EXCAVATE HATCHED AREA A MINIMUM OF FOUR INCHES, PAID FOR AS ITEM 203.15 COMMON EXCAVATION. INSTALL FOUR INCHES OF TOPSOIL, THEN SEED, FERTILIZER, LIMESTONE AND TEMPORARY EROSION MATTING PER APPLICATION RATES ON SHEET 4.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #42

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262142.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 74 OF 133

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 99+03, RT

CHANGING ELEVATION OF SEWER MANHOLES
STA. 97+70, RT
STA. 99+55, RT

ADJUST ELEVATION OF VALVE BOX
STA. 96+50, RT

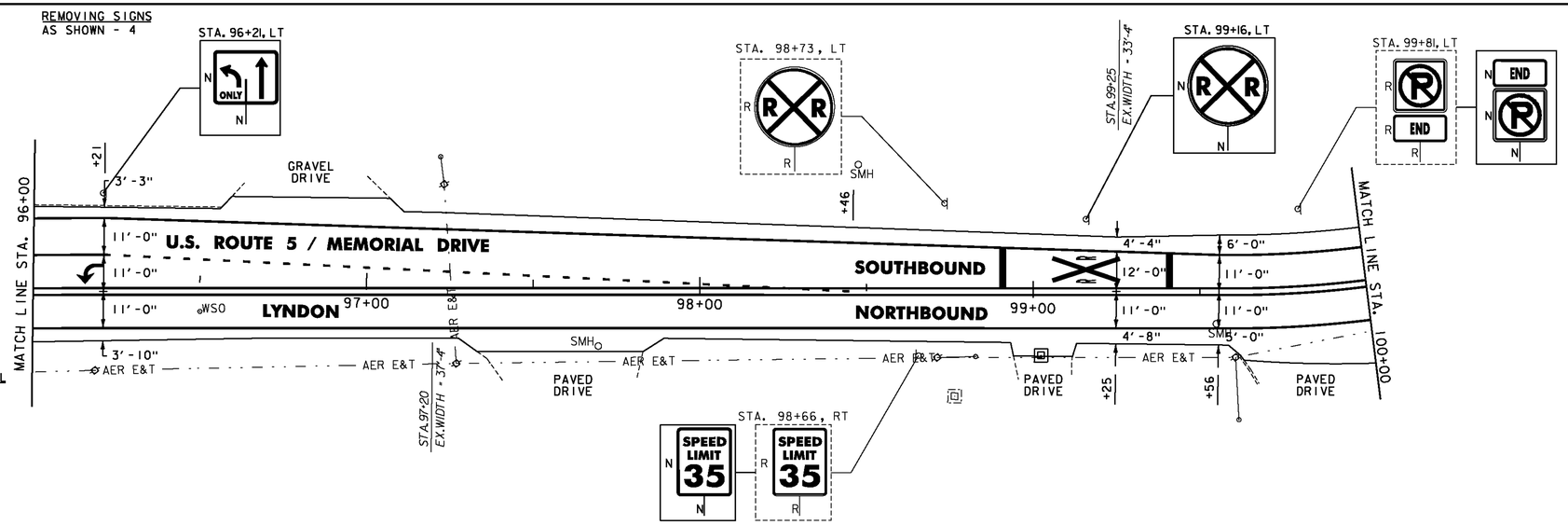
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 96+00 TO 100+00, SOLID LT & RT
STA. 96+00 TO 96+21, SOLID LT (LANE LINE)
STA. 96+21 TO 98+46, DOTTED LT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 96+00 TO 98+71, DOUBLE SOLID RT
STA. 98+71 TO 100+00, SOLID LT & RT

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 96+17, LT ARROW

DURABLE & TEMPORARY RAILROAD CROSSING SYMBOL
STA. 99+16, LT.

REMOVING SIGNS
AS SHOWN - 4



REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 102+50, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 100+00 TO 105+00, SOLID LT & RT

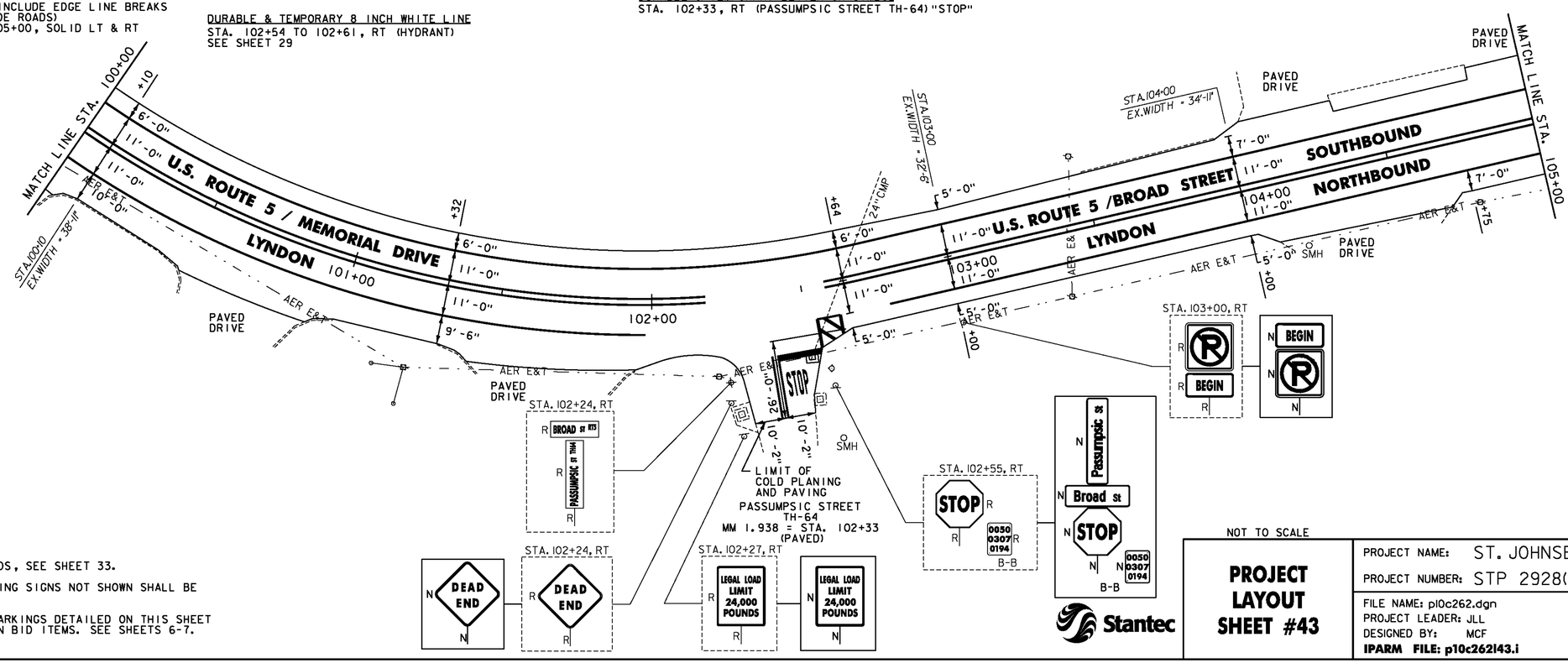
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 100+00 TO 105+00, SOLID LT & RT
STA. 102+33, DOUBLE SOLID RT (PASSUMPSIC STREET TH-64)

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 102+54 TO 102+61, RT (HYDRANT)
SEE SHEET 29

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 102+33, RT (PASSUMPSIC STREET TH-64)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 102+33, RT (PASSUMPSIC STREET TH-64) "STOP"

REMOVING SIGNS
AS SHOWN - 8



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #43

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262I43.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 75 OF 133

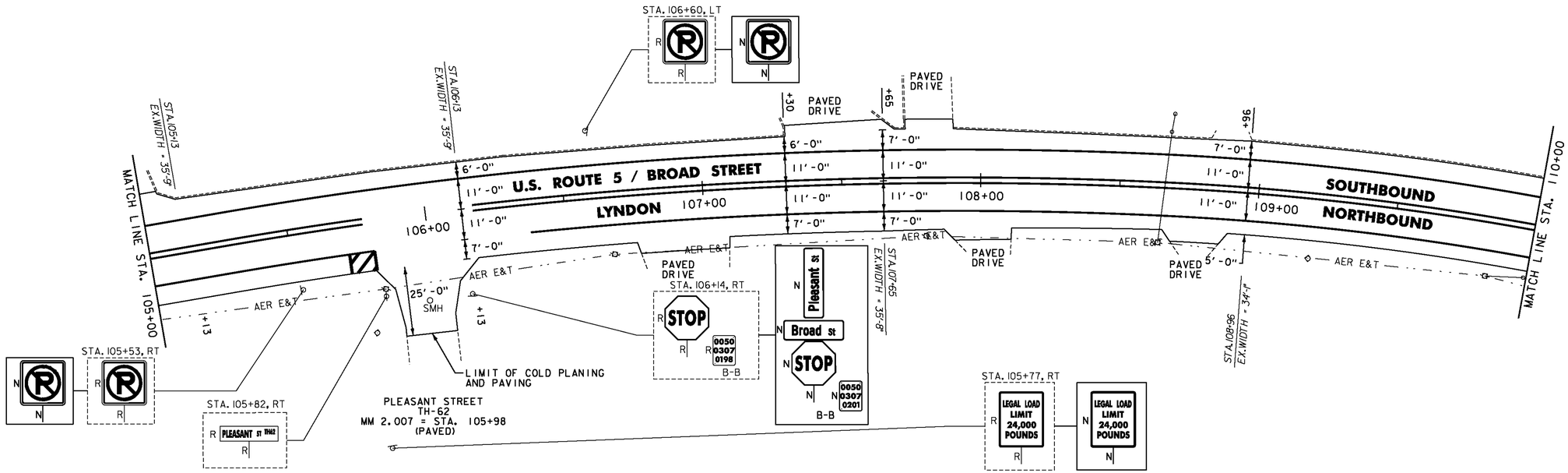
CHANGING ELEVATION OF SEWER MANHOLES
STA. 105+98, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 105+00 TO 110+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 105+00 TO 110+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 105+71 TO 105+80, RT (HYDRANT)
SEE SHEET 29

REMOVING SIGNS
AS SHOWN - 6



REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 111+88, RT

ADJUST ELEVATION OF VALVE BOX
STA. 111+65, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 110+00 TO 115+00, SOLID LT & RT

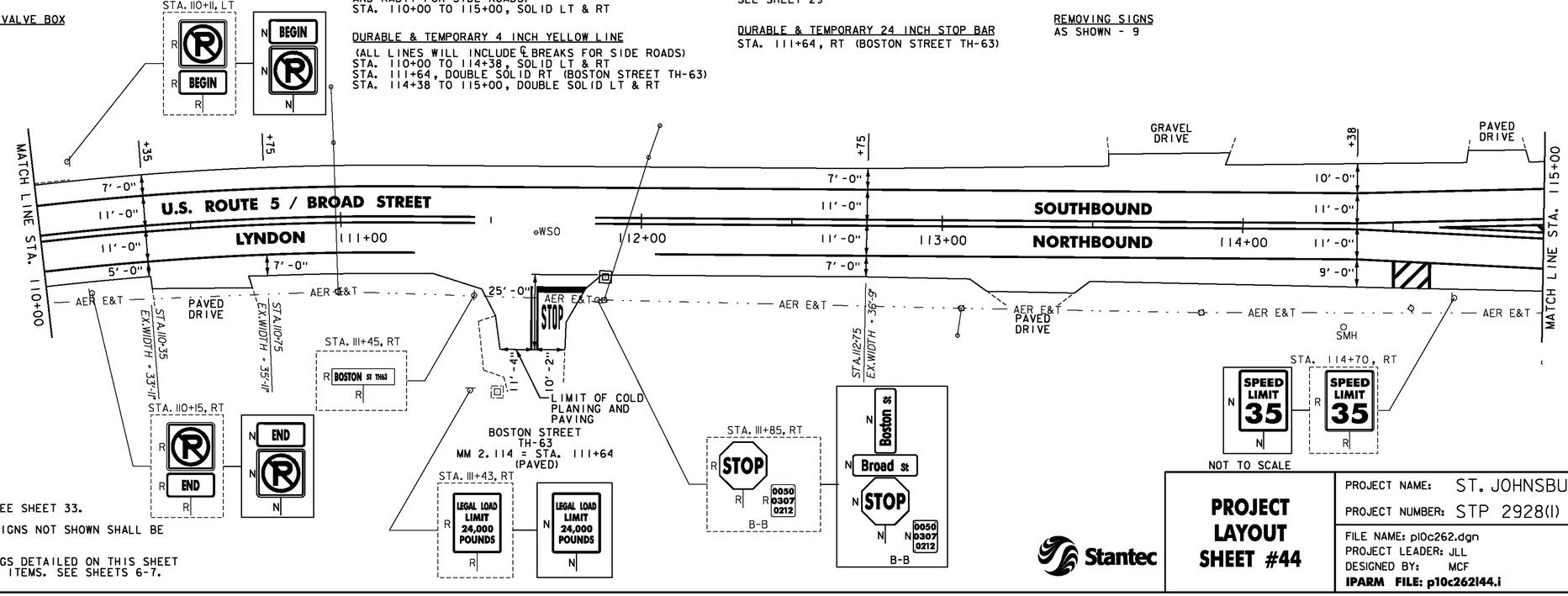
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 110+00 TO 114+38, SOLID LT & RT
STA. 111+64, DOUBLE SOLID RT (BOSTON STREET TH-63)
STA. 114+38 TO 115+00, DOUBLE SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 114+50 TO 114+62, RT (HYDRANT)
SEE SHEET 29

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 111+64, RT (BOSTON STREET TH-63)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 111+64, RT (BOSTON STREET TH-63) "STOP"

REMOVING SIGNS
AS SHOWN - 9



NOT TO SCALE

NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

Stantec

PROJECT LAYOUT SHEET #44

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262144.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 76 OF 133

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 115+00 TO 119+00, SOLID LT & RT
STA. 115+61 TO 116+61, DOTTED RT
STA. 116+61 TO 117+36, SOLID RT (LANE LINE)

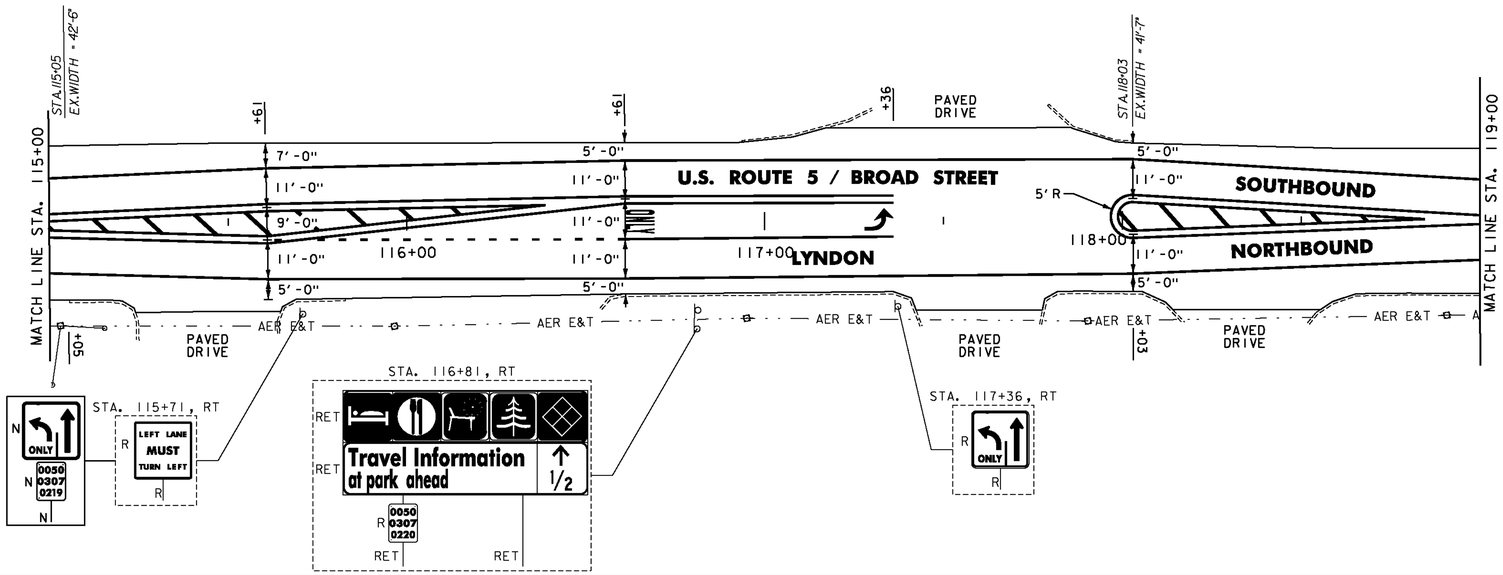
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 115+00 TO 116+39, DOUBLE SOLID LT & RT
STA. 116+39 TO 117+36, DOUBLE SOLID LT
STA. 117+97 TO 118+85, DOUBLE SOLID LT & RT
STA. 118+85 TO 119+00, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH YELLOW LINE
STA. 115+00 TO 116+39, SOLID LT & RT (DIAGONALS)
SEE DETAIL ON SHEET 30
STA. 117+97 TO 118+85, SOLID LT & RT (DIAGONALS)
SEE DETAIL ON SHEET 30

DURABLE LETTER OR SYMBOL
STA. 116+65, RT "ONLY"
STA. 117+32, RT "ARROW"

TEMPORARY LETTER OR SYMBOL
STA. 117+32, RT "ARROW"

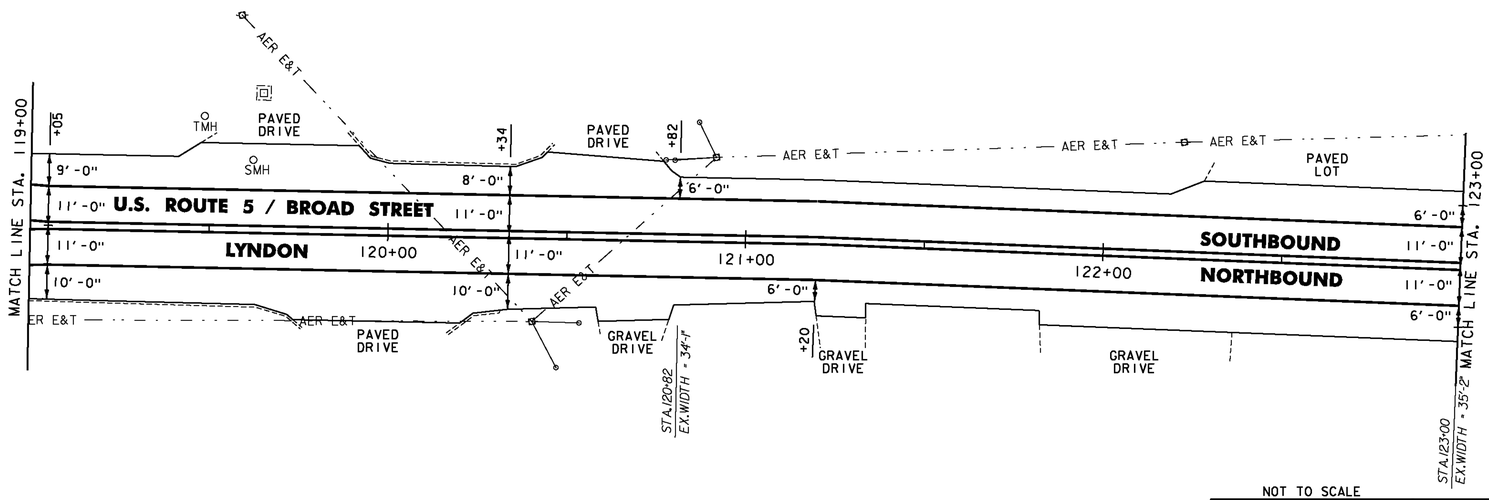
REMOVING SIGNS
AS SHOWN - 3



CHANGING ELEVATION OF SEWER MANHOLES
STA. 119+62, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 119+00 TO 123+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 119+00 TO 123+00, SOLID LT & RT



NOTES:
1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #45

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262145.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 77 OF 133

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 126+61, RT

CHANGING ELEVATION OF SEWER MANHOLES
STA. 126+93, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 124+18 TO 124+36, LT
STA. 124+61 TO 125+19, LT

HD STEEL BEAM GUARDRAIL, GALVANIZED
STA. 124+36 TO 124+61, LT

ANCHOR FOR STEEL BEAM RAIL
STA. 124+18, LT
STA. 125+19, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 124+17.5 TO 125+18.5, LT

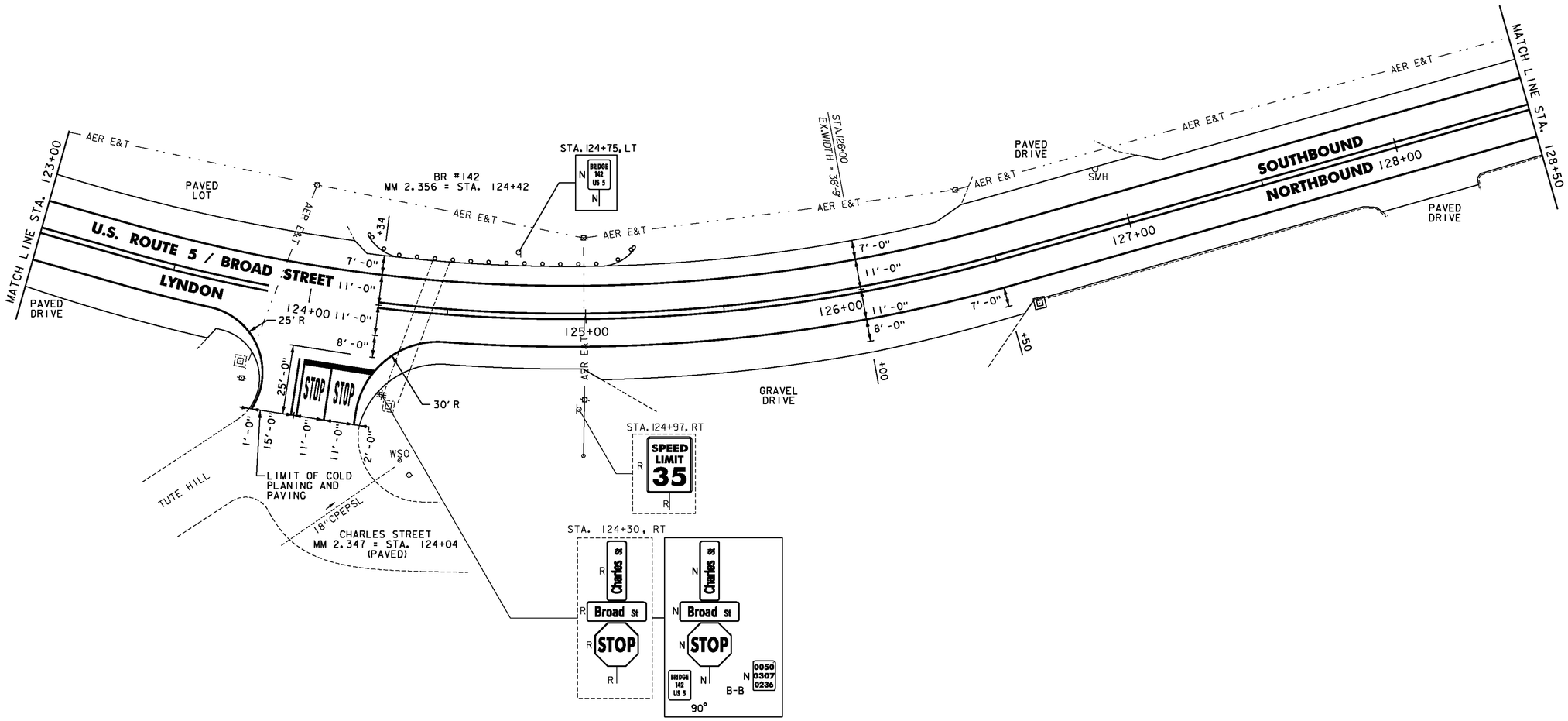
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 123+00 TO 128+50, SOLID LT & RT
STA. 124+04, SOLID RT (LANE LINE, CHARLES STREET)
STA. 124+04, SOLID RT (EDGELINES, CHARLES STREET)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 123+00 TO 128+50, SOLID LT & RT
STA. 124+04, DOUBLE SOLID RT (CHARLES STREET)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 124+04, RT (CHARLES STREET)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 124+04, RT (CHARLES STREET) "STOP" (2)

REMOVING SIGNS
AS SHOWN - 4



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #46

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

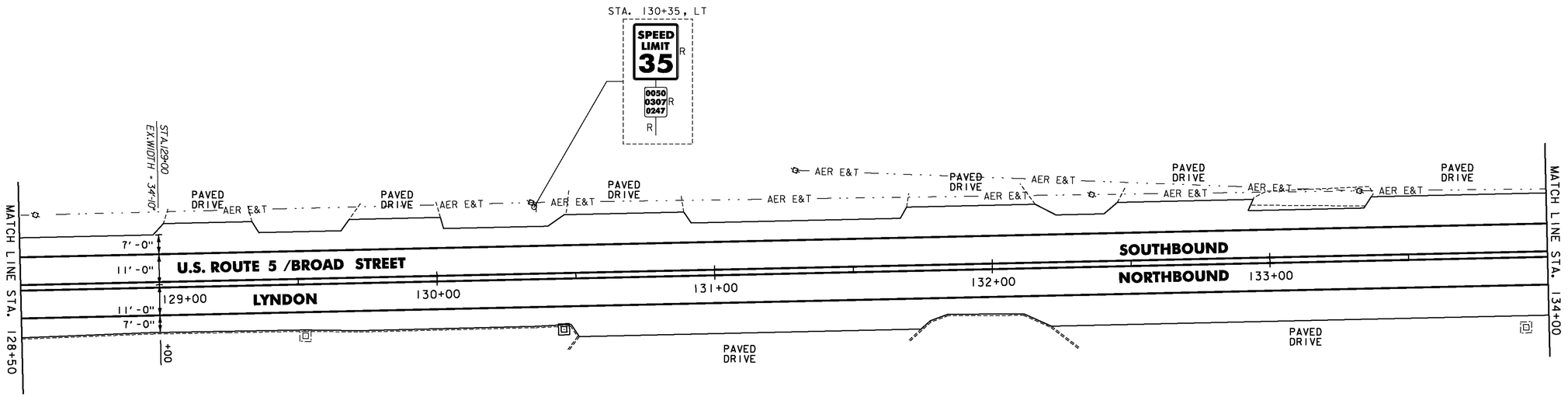
FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262146.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 78 OF 133

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 130+45, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 128+50 TO 134+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 128+50 TO 134+00, SOLID LT & RT

REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #47

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262147.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 79 OF 133

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 134+00 TO 139+49.76, SOLID LT & RT

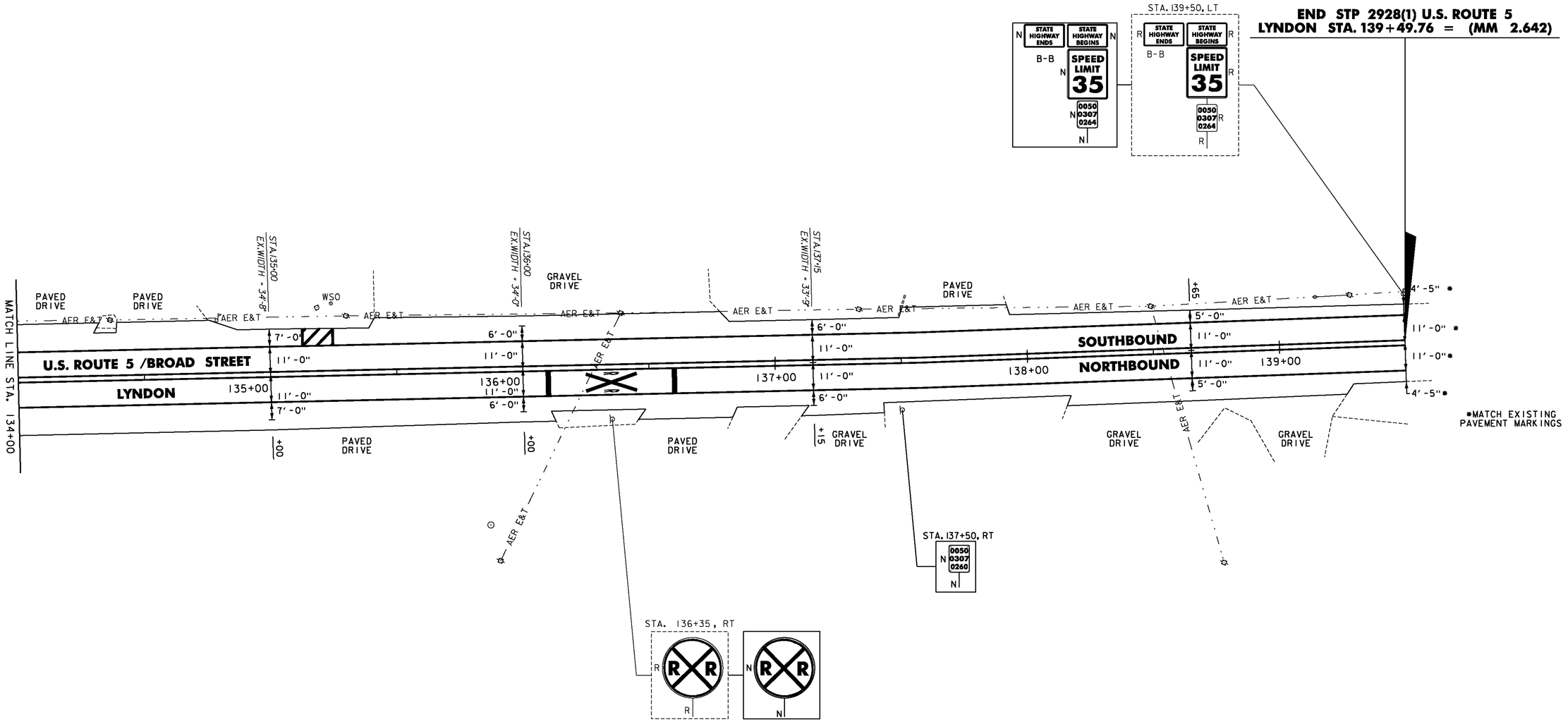
DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 134+00 TO 139+49.76, SOLID LT & RT

DURABLE & TEMPORARY 8 INCH WHITE LINE
STA. 135+13 TO 135+25, RT (HYDRANT)
SEE SHEET 29

DURABLE & TEMPORARY RAILROAD CROSSING SYMBOL
STA. 136+35, RT

REMOVING SIGNS
AS SHOWN - 5

END STP 2928(1) U.S. ROUTE 5
LYNDON STA. 139+49.76 = (MM 2.642)



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #48

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262148.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 80 OF 133

MILLED RUMBLE STRIPS
STA. 1+00 TO 6+00, LT

REHAB. DIs. CBs OR MHs. CLASS I OR II
STA. 3+22, RT
STA. 3+24, LT

TREATED TIMBER CURB
STA. 3+14.5 TO 3+94.5, LT
STA. 3+18.0 TO 3+81.0, RT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 2+18.0 TO 3+56.0, RT
STA. 2+45.0 TO 3+69.5, LT

TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL
STA. 3+56 TO 3+81, RT
STA. 3+69.5 TO 3+94.5, LT
FOR DETAIL, SEE SHEET 19

ANCHOR FOR STEEL BEAM RAIL
STA. 2+18.0, RT
STA. 2+45.0, LT

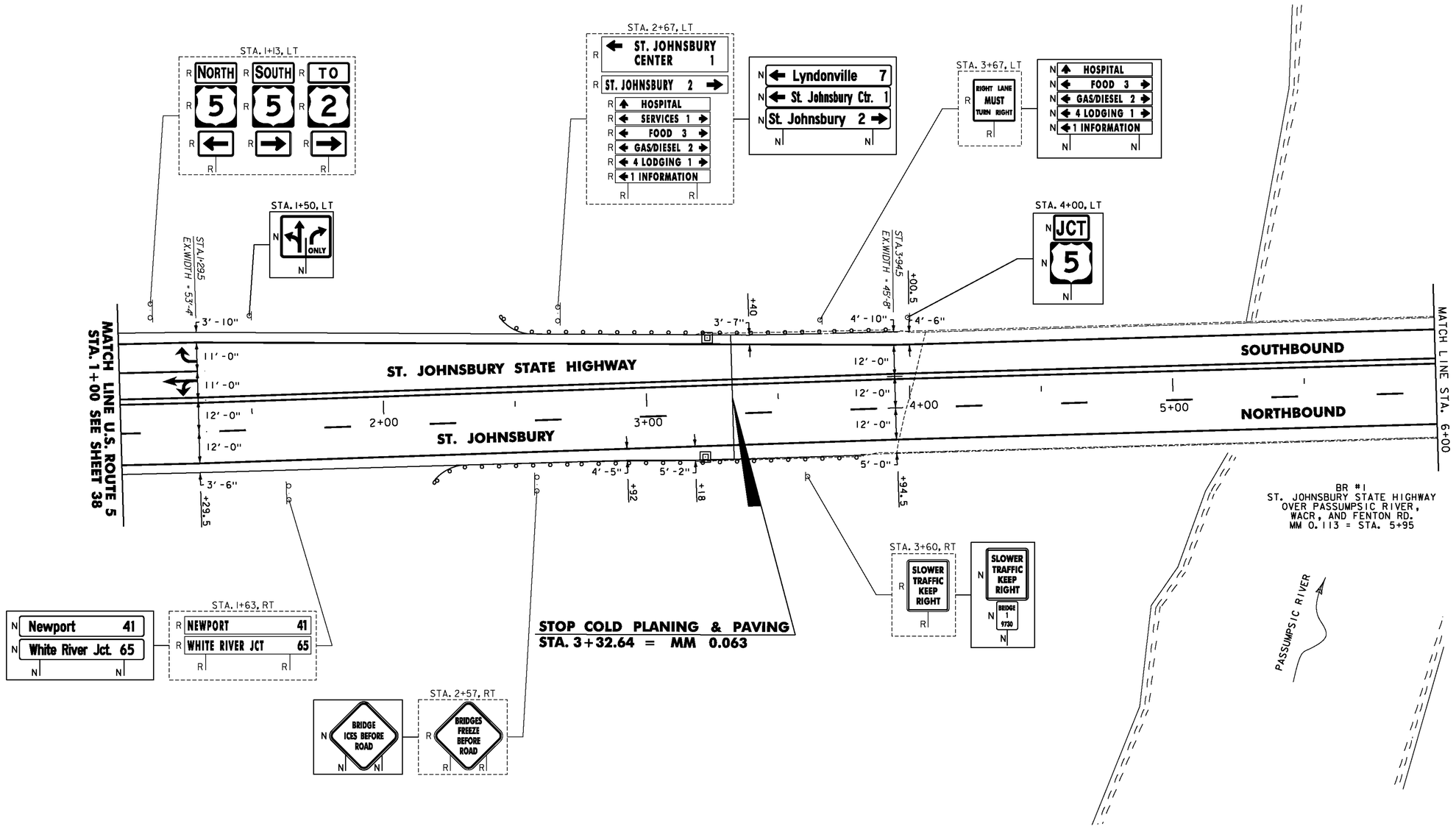
REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 2+18.0 TO 3+81.0, RT
STA. 2+45.0 TO 3+94.5, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 1+00 TO 6+00, SOLID LT & RT
STA. 1+00 TO 6+00, DASHED RT (LANE LINE)
STA. 1+00 TO 1+30, SOLID LT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 1+00 TO 6+00, DOUBLE SOLID LT

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 1+26, LT ARROW (3)

REMOVING SIGNS
AS SHOWN - 22



NOT TO SCALE

NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

Stantec

PROJECT LAYOUT SHEET #49

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262149.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 81 OF 133

MILLED RUMBLE STRIPS
STA. 6+00 TO 11+00, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 8+33.0 TO 9+71.0, RT
STA. 8+49.5 TO 10+22.5, LT

TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL
STA. 8+08 TO 8+33, RT
STA. 8+24.5 TO 8+49.5, LT
FOR DETAIL, SEE SHEET 19

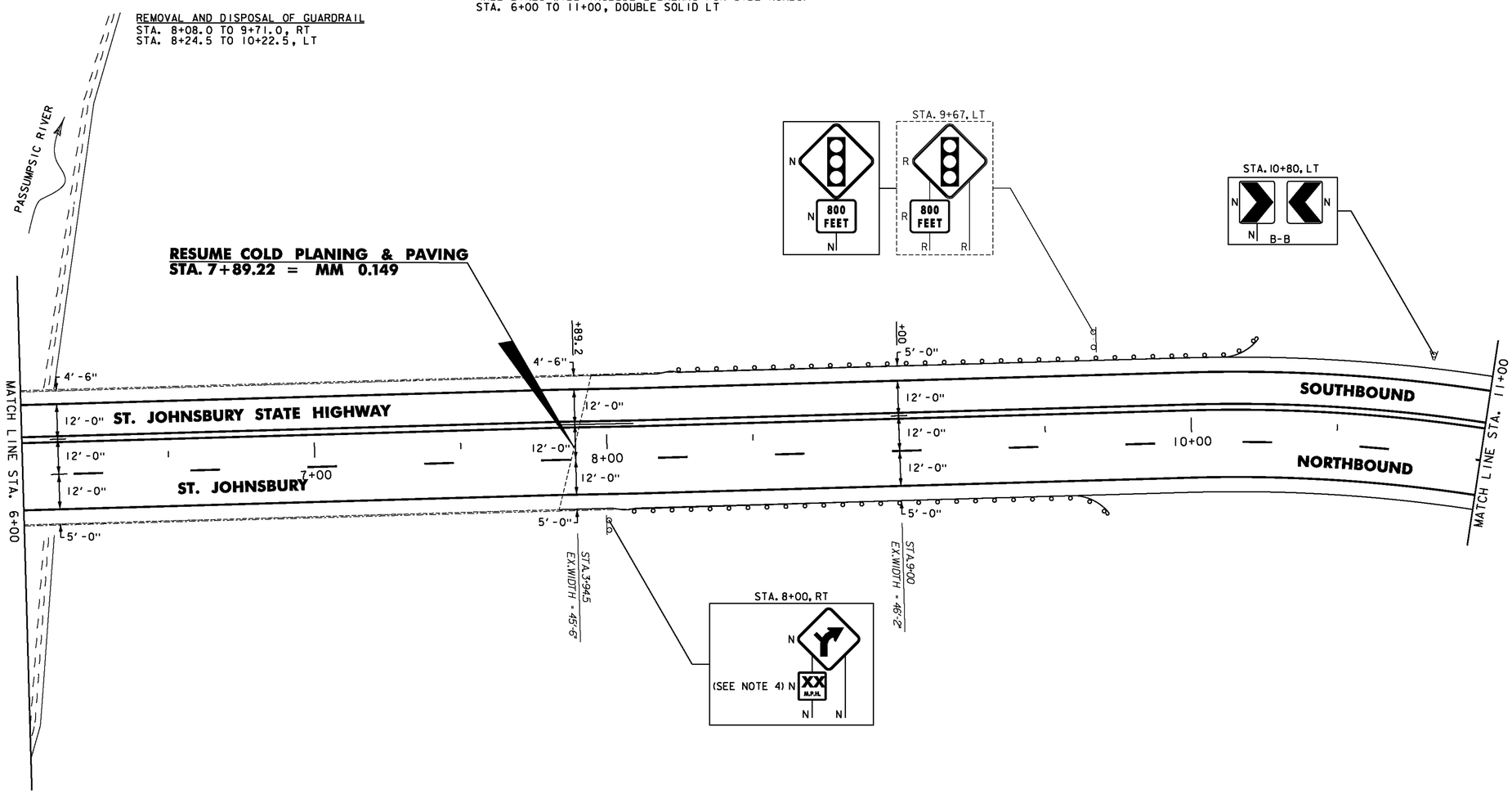
ANCHOR FOR STEEL BEAM RAIL
STA. 9+71.0, RT
STA. 10+22.5, LT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 8+08.0 TO 9+71.0, RT
STA. 8+24.5 TO 10+22.5, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 6+00 TO 11+00, SOLID LT & RT
STA. 6+00 TO 11+00, DASHED RT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 6+00 TO 11+00, DOUBLE SOLID LT

REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. THE ADVISORY SPEED SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER USING AN ESTABLISHED ENGINEERING PRACTICE AS LISTED IN SECTION 2C.08 OF THE MUTCD.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #50

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262150.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 82 OF 133

MILLED RUMBLE STRIPS
STA. 11+00 TO 16+00, LT
(BREAK FOR SIDE ROADS PER DETAIL ON SHEET 27)

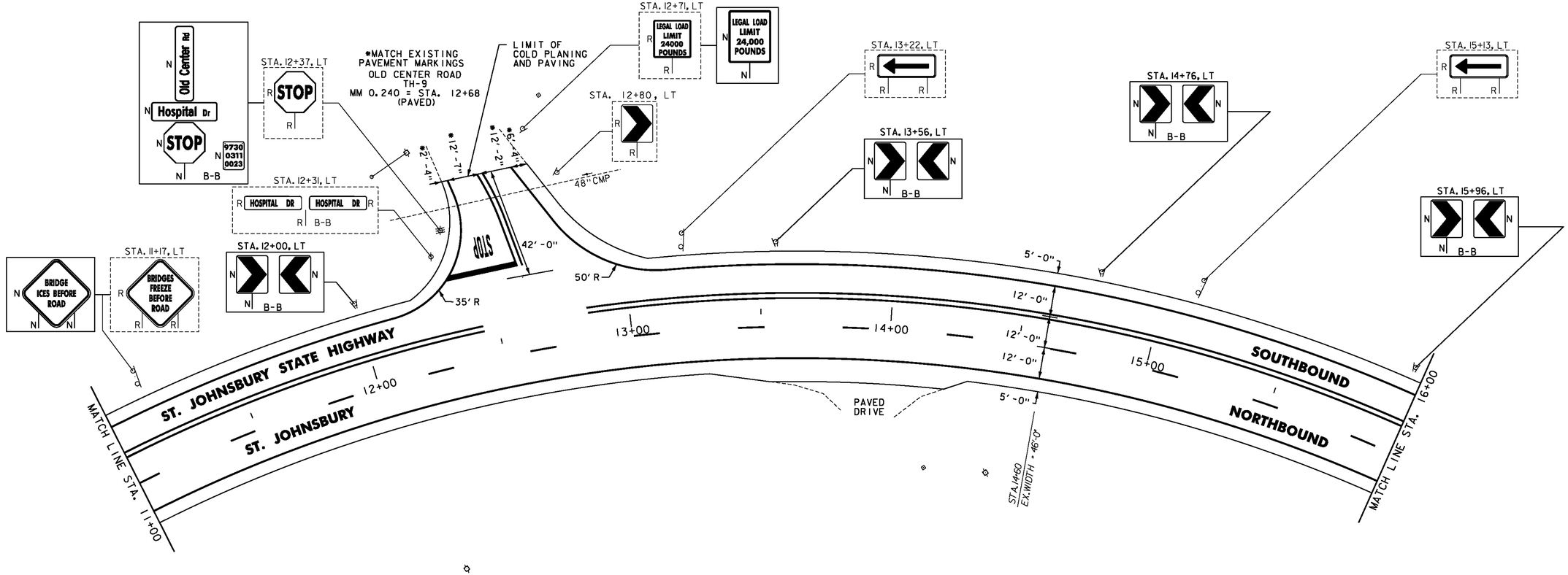
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 11+00 TO 16+00, SOLID LT & RT
STA. 11+00 TO 16+00, DASHED RT (LANE LINE)
STA. 12+68, SOLID LT (EDGELINES, OLD CENTER ROAD TH-9)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 11+00 TO 16+00, DOUBLE SOLID LT
STA. 12+68, DOUBLE SOLID LT (OLD CENTER ROAD TH-9)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 12+68, LT (OLD CENTER ROAD TH-9)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 12+68, LT (OLD CENTER ROAD TH-9) "STOP"

REMOVING SIGNS
AS SHOWN - 8



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #51

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262151.i

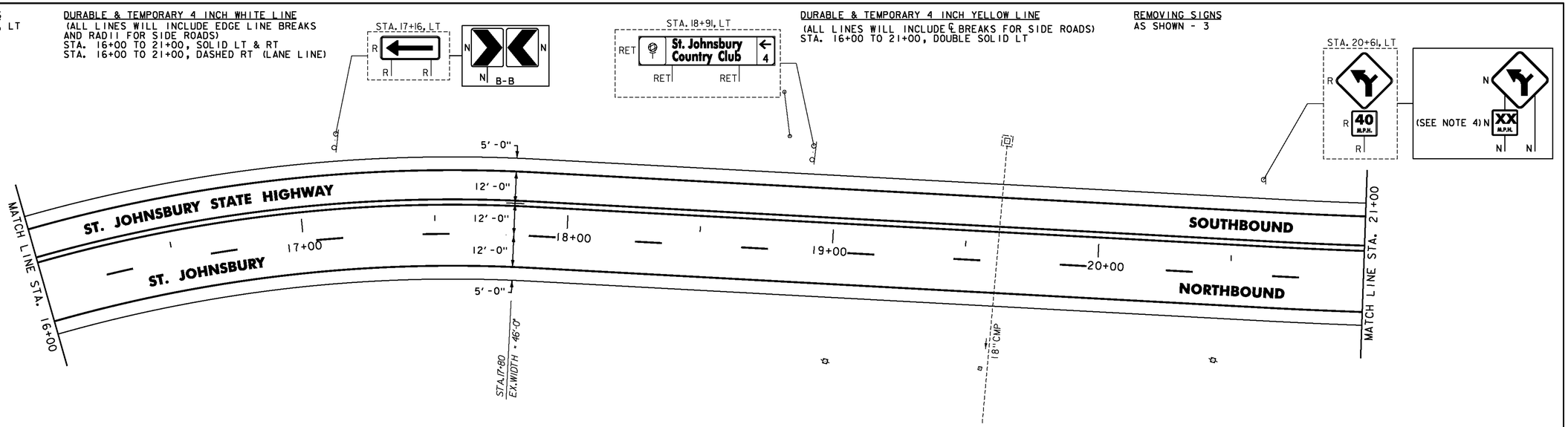
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 83 OF 133

MILLED RUMBLE STRIPS
STA. 16+00 TO 21+00, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 16+00 TO 21+00, SOLID LT & RT
STA. 16+00 TO 21+00, DASHED RT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 16+00 TO 21+00, DOUBLE SOLID LT

REMOVING SIGNS
AS SHOWN - 3



MILLED RUMBLE STRIPS
STA. 21+00 TO 26+00, LT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 22+09.5 TO 26+00.0, RT

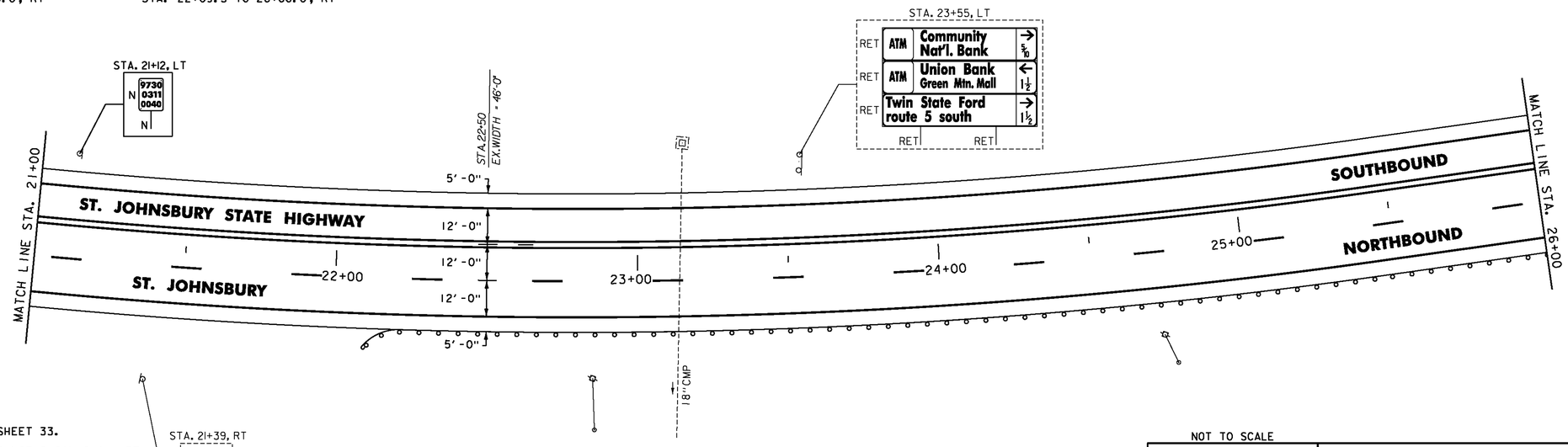
ANCHOR FOR STEEL BEAM RAIL
STA. 22+09.5, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 22+09.5 TO 26+00.0, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 21+00 TO 26+00, SOLID LT & RT
STA. 21+00 TO 26+00, DASHED RT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 21+00 TO 26+00, DOUBLE SOLID LT

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.
4. THE ADVISORY SPEED SHALL BE DETERMINED AS DIRECTED BY THE ENGINEER USING AN ESTABLISHED ENGINEERING PRACTICE AS LISTED IN SECTION 2C.08 OF THE MUTCD.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #52

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262152.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 84 OF 133

MILLED RUMBLE STRIPS
STA. 26+00 TO 31+00, LT

RELOCATE MAILBOX, MULTIPLE SUPPORT
STA. 29+78, RT

STEEL BEAM GUARDRAIL, GALVANIZED
STA. 26+00.0 TO 26+16.5, RT

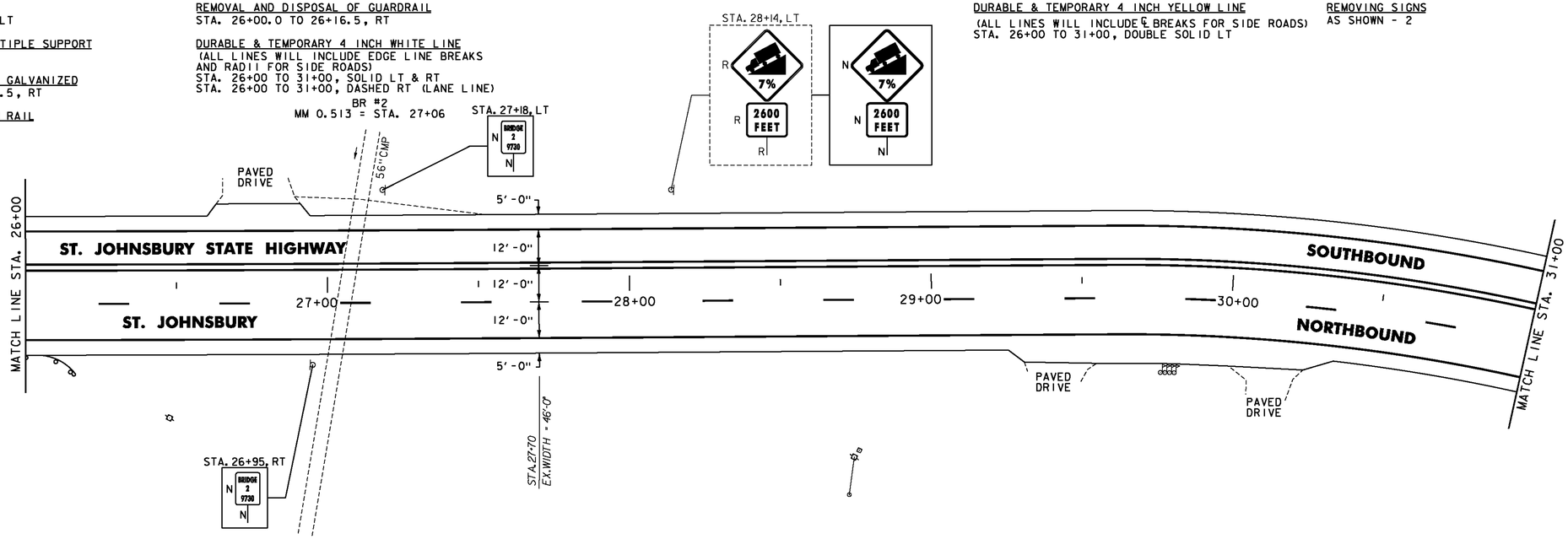
ANCHOR FOR STEEL BEAM RAIL
STA. 26+16.5, RT

REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 26+00.0 TO 26+16.5, RT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 26+00 TO 31+00, SOLID LT & RT
STA. 26+00 TO 31+00, DASHED RT (LANE LINE)
STA. 26+12, SOLID RT (EDGELINES, DEPOT HILL ROAD TH-85)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 26+00 TO 31+00, DOUBLE SOLID LT

REMOVING SIGNS
AS SHOWN - 2



MILLED RUMBLE STRIPS
STA. 31+00 TO 35+00, LT
(BREAK FOR SIDE ROADS PER DETAIL ON SHEET 27)

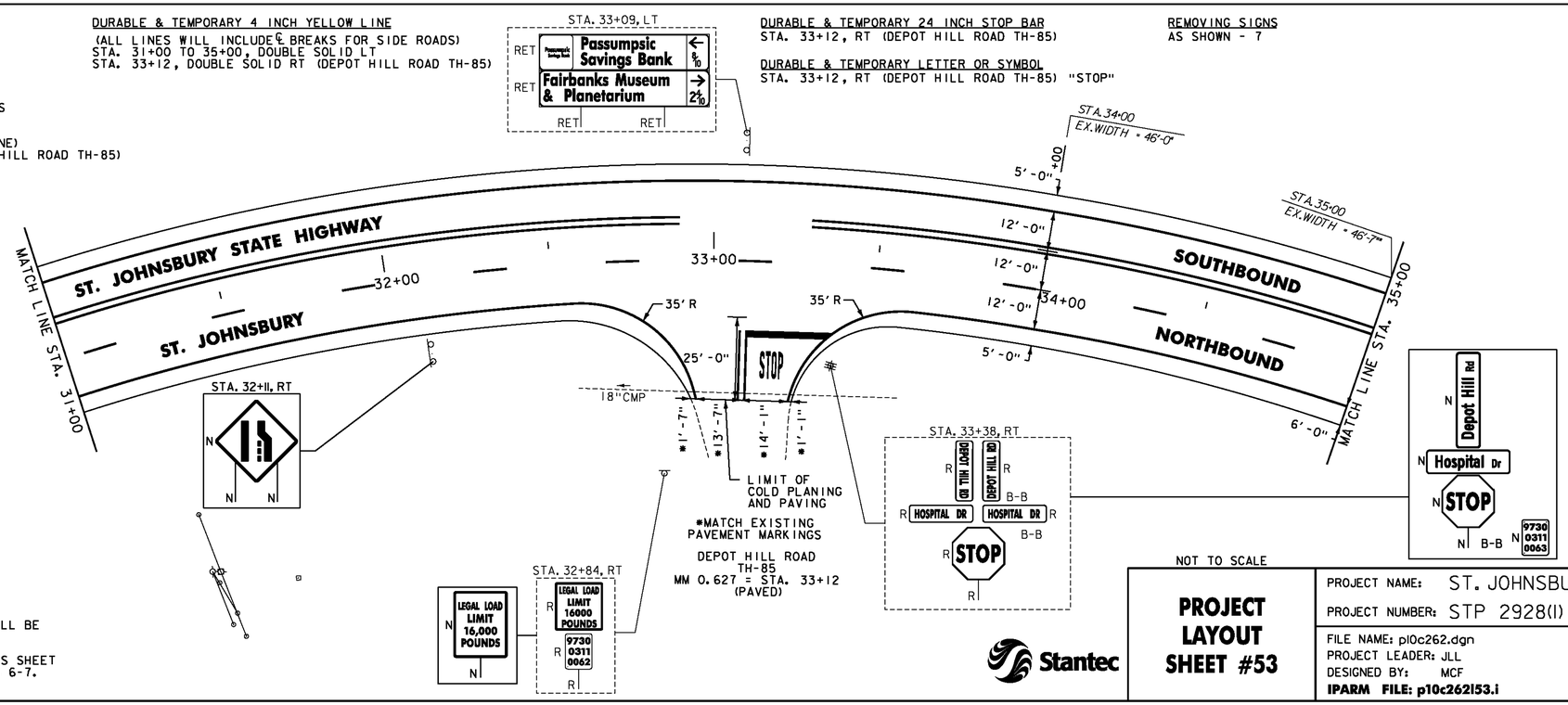
DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 31+00 TO 35+00, SOLID LT & RT
STA. 31+00 TO 35+00, DASHED RT (LANE LINE)
STA. 33+12, SOLID RT (EDGELINES, DEPOT HILL ROAD TH-85)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 31+00 TO 35+00, DOUBLE SOLID LT
STA. 33+12, DOUBLE SOLID RT (DEPOT HILL ROAD TH-85)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 33+12, RT (DEPOT HILL ROAD TH-85)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 33+12, RT (DEPOT HILL ROAD TH-85) "STOP"

REMOVING SIGNS
AS SHOWN - 7



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

PROJECT LAYOUT SHEET #53

Stantec

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

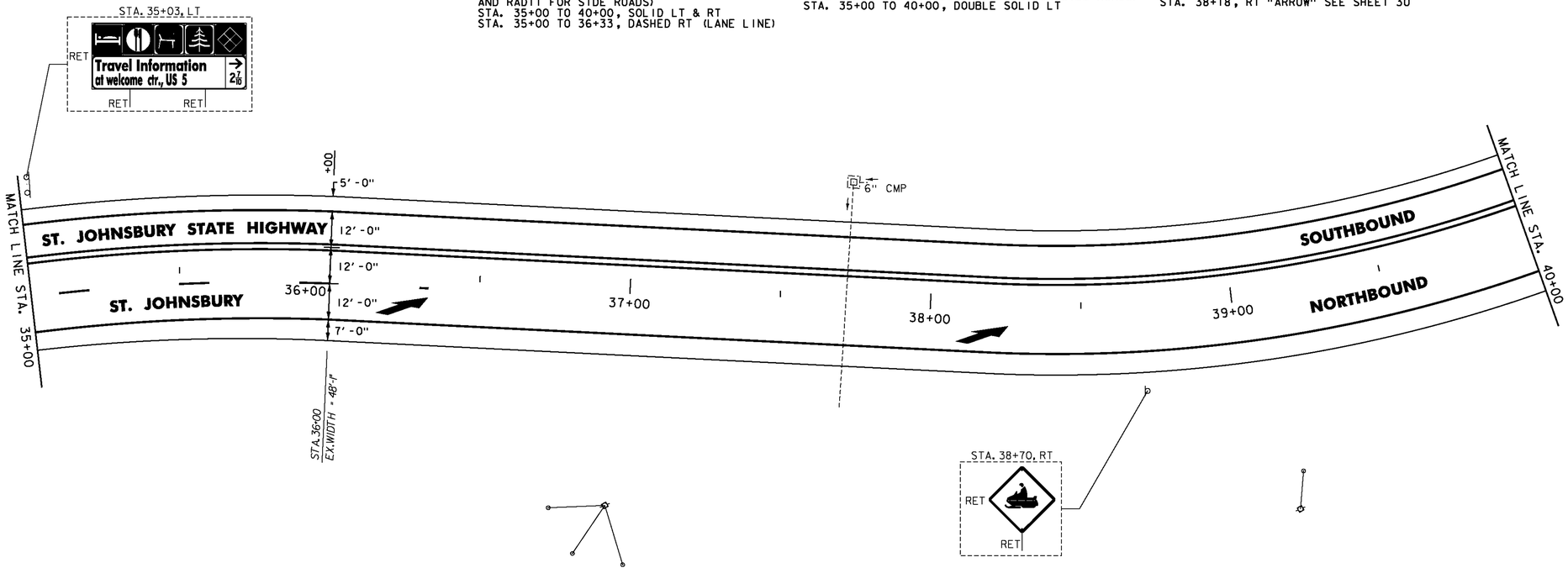
FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262153.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 85 OF 133

MILLED RUMBLE STRIPS
STA. 35+00 TO 40+00, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 35+00 TO 40+00, SOLID LT & RT
STA. 35+00 TO 36+33, DASHED RT (LANE LINE)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 35+00 TO 40+00, DOUBLE SOLID LT

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 36+25, RT "ARROW" SEE SHEET 30
STA. 38+18, RT "ARROW" SEE SHEET 30



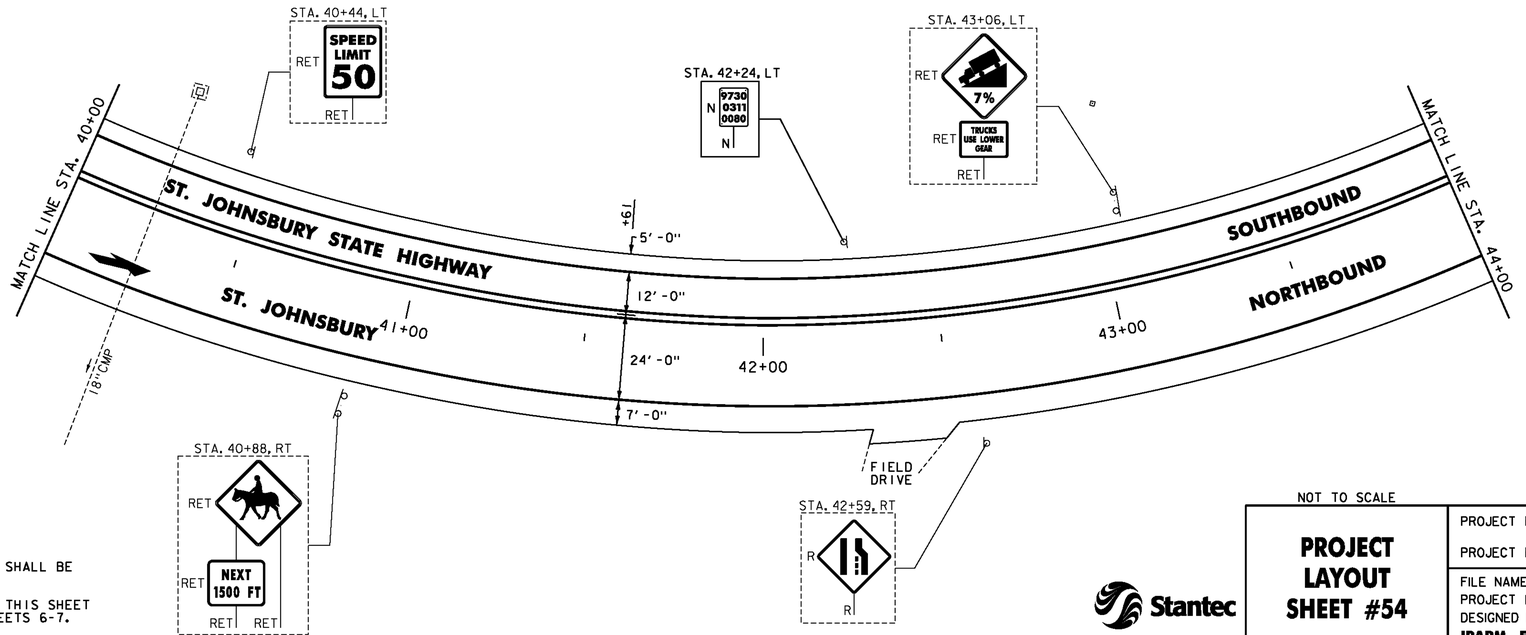
MILLED RUMBLE STRIPS
STA. 40+00 TO 44+00, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 40+00 TO 44+00, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 40+00 TO 44+00, DOUBLE SOLID LT

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 40+20, RT "ARROW" SEE SHEET 30

REMOVING SIGNS
AS SHOWN - 1



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #54

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262154.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 86 OF 133

MILLED RUMBLE STRIPS
STA. 44+00 TO 49+50, LT
(BREAK FOR SIDE ROADS PER DETAIL ON SHEET 27)

REHAB. DIs, CBs OR MHs, CLASS I OR II
STA. 48+61, RT
STA. 48+62, LT

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 44+00 TO 49+50, SOLID LT & RT
STA. 45+17, SOLID RT (EDGELINES, LAPIERRE ROAD TH-32)

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 44+00 TO 49+50, DOUBLE SOLID LT
STA. 45+17, DOUBLE SOLID RT (LAPIERRE ROAD TH-32)

DURABLE & TEMPORARY 6 INCH WHITE LINE
STA. 47+23, SOLID LT (EDGELINE, I91 NB OFF-RAMP A)
STA. 47+35, SOLID RT (EDGELINE, I91 NB ON-RAMP B)

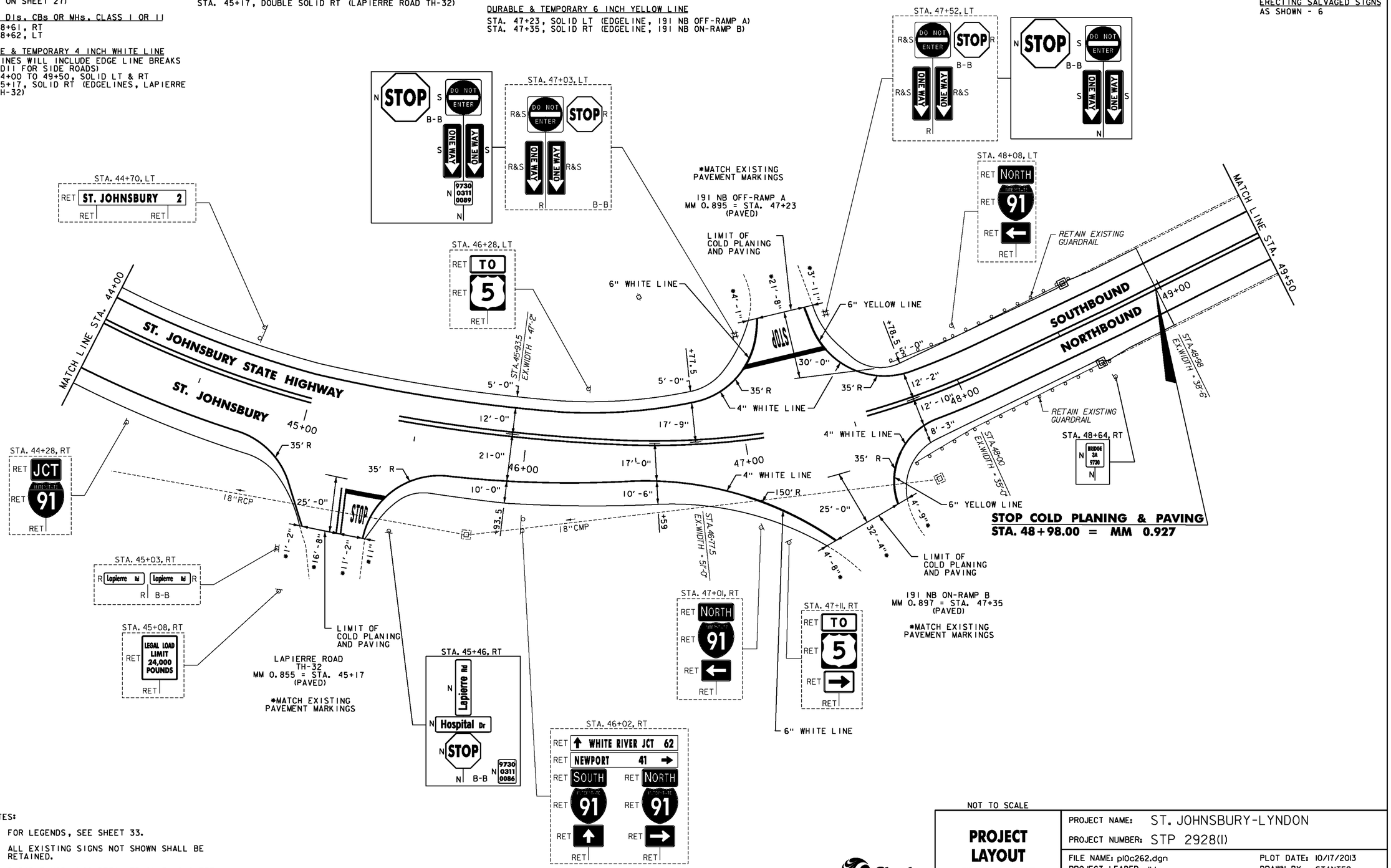
DURABLE & TEMPORARY 6 INCH YELLOW LINE
STA. 47+23, SOLID LT (EDGELINE, I91 NB OFF-RAMP A)
STA. 47+35, SOLID RT (EDGELINE, I91 NB ON-RAMP B)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 45+17, RT (LAPIERRE ROAD TH-32)
STA. 47+23, LT (I91 NB OFF-RAMP A)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 45+17, RT (LAPIERRE ROAD TH-32) "STOP"
STA. 47+23, LT (I91 NB OFF-RAMP A) "STOP"

REMOVING SIGNS
AS SHOWN - 10

ERECTING SALVAGED SIGNS
AS SHOWN - 6



NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

PROJECT LAYOUT SHEET #55

Stantec

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262155.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 87 OF 133

MILLED RUMBLE STRIPS
STA. 49+50 TO 54+96.48 ℄
(BREAK FOR SIDE ROADS PER DETAIL ON SHEET 27)

DURABLE & TEMPORARY 4 INCH WHITE LINE
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADII FOR SIDE ROADS)
STA. 49+50 TO 54+96.48, SOLID LT & RT

DURABLE & TEMPORARY 4 INCH YELLOW LINE
(ALL LINES WILL INCLUDE ℄ BREAKS FOR SIDE ROADS)
STA. 49+50 TO 54+96.48, SOLID LT & RT

DURABLE & TEMPORARY 6 INCH WHITE LINE
STA. 53+67, SOLID LT (EDGELINE, I91 SB ON-RAMP D)
STA. 53+68, SOLID RT (EDGELINE, I91 SB OFF-RAMP C)

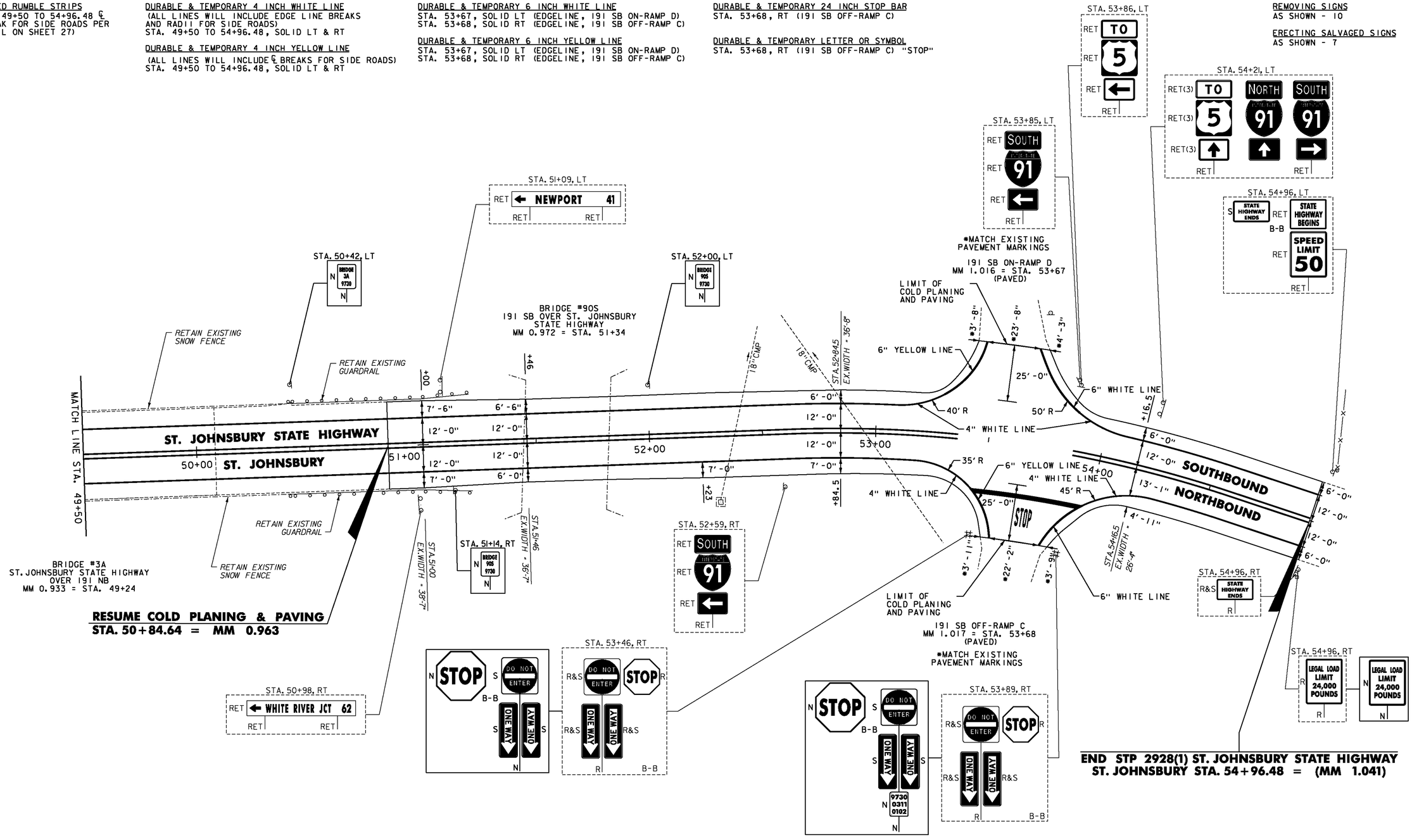
DURABLE & TEMPORARY 6 INCH YELLOW LINE
STA. 53+67, SOLID LT (EDGELINE, I91 SB ON-RAMP D)
STA. 53+68, SOLID RT (EDGELINE, I91 SB OFF-RAMP C)

DURABLE & TEMPORARY 24 INCH STOP BAR
STA. 53+68, RT (I91 SB OFF-RAMP C)

DURABLE & TEMPORARY LETTER OR SYMBOL
STA. 53+68, RT (I91 SB OFF-RAMP C) "STOP"

REMOVING SIGNS
AS SHOWN - 10

ERECTING SALVAGED SIGNS
AS SHOWN - 7



RESUME COLD PLANING & PAVING
STA. 50+84.64 = MM 0.963

END STP 2928(1) ST. JOHNSBURY STATE HIGHWAY
ST. JOHNSBURY STA. 54+96.48 = (MM 1.041)

NOTES:

1. FOR LEGENDS, SEE SHEET 33.
2. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
3. DURABLE MARKINGS DETAILED ON THIS SHEET ARE OPTION BID ITEMS. SEE SHEETS 6-7.

NOT TO SCALE

Stantec

PROJECT LAYOUT SHEET #56

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262156.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 88 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 01

MILEMARKER, 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	FOUNDATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY																																				
151+63, LT	STATE HIGHWAY ENDS	1	24	18	3.00						1						X	X															VR-038			E-141
	SPEED LIMIT 30	1	30	36	7.50																											R2-1	X		
	WINTER PARKING BAN NO PARKING 11AM TO 6AM NOV 15TH TO APRIL 15TH						1																												
151+87, RT	STATE HIGHWAY BEGINS	1	24	18	3.00						1					X		X	1													VR-039			E-141
	SPEED LIMIT 35	1	24	30	5.00																											R2-1 SLEEVE TO BE INSTALLED IN EXISTING PAVEMENT PER VAOT STANDARD T-45	X		
	0050 0311 0287	1	6	10	0.42																											VD-700			E-138
156+14, RT		1	30	30	6.25						1					X		X														WI-4	X		
158+40, LT	0050 0311 0300	1	6	10	0.42						1				X			X														VD-700			E-138
160+55, RT	BRIDGE 130 US 5	1	6	8	0.33						1				X			X														VD-701			E-134
160+65, LT	BRIDGE 130 US 5	1	6	8	0.33						1				X			X														VD-701			E-134
168+96, RT	0050 0311 0320	1	6	10	0.42						1				X			X														VD-700			E-138
175+91, RT	BRIDGE 131 US 5	1	6	8	0.33						1				X			X														VD-701			E-134
176+00, LT	BRIDGE 131 US 5	1	6	8	0.33						1				X			X														VD-701			E-134
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT 63	FT 31	FT 17		EA 1	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 27.33	SF	EA. 1	SF				FT			FT III					LB			EA.	LB				EA.	EA.	LB					

TRAFFIC SIGN SUMMARY SHEET #01

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss01.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 89 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 02

MILEMARKER, 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 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																					
179+52, LT	0050 0311 0340	1	6	10	0.42						1				X			X																VD-700			E-138
181+91, RT	SPEED LIMIT 35	1	24	30	5.00						1					X		X																R2-1	X		
187+72, LT		1	30	30	6.25						1					X		X																W1-5L	X		
190+08, RT	0050 0311 0360	1	6	10	0.42						1				X			X																VD-700			E-138
191+57, RT		1	30	30	6.25						1					X		X																W3-3	X		
192+57, RT	ONLY	1	30	30	6.25						1					X		X																VR-921			E-145A
192+94, LT	SPEED LIMIT 35	1	24	30	5.00						1					X		X																R2-1	X		
194+00, RT	EMERGENCY VEHICLES	1	36	36	9.00						2					X		X																VW-544			E-154
195+43, RT	St. Johnsbury Ctr 1	1	72	12	6.00						2												2	X										VD2-1		124	
	Lyndonville 7	1	72	12	6.00																													VD2-1		124	
	← Newport 41	1	72	12	6.00																													VD1-1a		123	
	← White River Jct. 65	1	72	12	6.00																													VD1-1a		123	
	H	1	24	24	4.00																													D9-2	X		
		1	21	15	2.19																													M5-1 WHITE ON BLUE	X		
TOTALS		SF 68.78	SF	EA.	SF				FT			FT	FT	FT	FT 20	FT 109	FT 129		EA	LB	LB	LB	EA. 2	LB	LB 198	LB	LB	EA.	EA.	LB							

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #02

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss02.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 90 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 03

MILEMARKER, 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	FOUNDATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
196+00, LT	St. Johnsbury 1	1	72	12	6.00						2					X		X																VD2-1		123	
196+88, RT	ONLY	1	36	30	7.50						1					X		X																VR-922			E-145A
197+00, LT	SOUTH TO 5 2	1 1 1 1	24 24 24 24	12 24 12 24	2.00 4.00 2.00 4.00						2					X		X															#1	M3-3 BLACK ON WHITE M1-4 FOR SIGN FRAME DETAIL SEE SHEET 126 M4-5 BLACK ON WHITE M1-4	X X X X		
197+95, RT	TO 91 INTERSTATE ← NORTH 5 ↑	1 1 1 1 1 1	24 24 21 24 24 21	12 24 15 12 24 15	2.00 4.00 2.19 2.00 4.00 2.19						2							X	X															#2	M4-5 WHITE ON BLUE M1-1 USE SOIL BEARING SLIP BASES. PAID AS ITEM 900.620 SPECIAL PROVISION (SOIL BEARING SLIP BASE) (2½"). FOR SIGN FRAME DETAIL SEE SHEET 126 M6-1 WHITE ON BLUE M3-1 BLACK ON WHITE M1-4 M6-3 BLACK ON WHITE	X X X X X X		
198+42, RT	STATE LAW LEGAL LOAD LIMIT 24,000 POUNDS	1 1	24 24	12 30	2.00 5.00						1					X		X																W16-18P FLUORESCENT YELLOW VR-017	X		E-141
198+82, ℄	LEFT TURN YIELD ON GREEN B-B LEFT TURN YIELD ON GREEN	1 1	30 30	36 36	7.50 7.50																													R10-12 (2) MOUNT ON SPAN WIRE BACK-TO-BACK USING NEW MOUNTING HARDWARE (INCIDENTAL TO SIGNS)	X X		
199+19, RT	Hospital Dr Memorial Dr 0050 0311 0377	1 1 1	42 42 6	12 12 10	3.50 3.50 0.42						1					X		X																D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE MM PLAQUE D3-1 VD-700		122 122	E-138
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT	FT 105	FT 32		EA	LB	LB	LB		LB	LB	LB	LB									
	TOTALS		SF 71.30	SF	EA.	SF						FT			FT 137					LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #03

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss03.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 91 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 04

MILEMARKER, 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) FOUND-ATION	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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
199+86, LT	St. Johnsbury 1	1	72	12	6.00						2												2	X								*2	VD2-1		123	
	Newport 41 →	1	72	12	6.00																												VD1-1a		124	
	White River Jct. 65 →	1	72	12	6.00																												VD1-1a		124	
	SOUTH 5 TO PORTLAND 91	1	24	12	2.00																												M3-3 BLACK ON WHITE	X		
		1	24	24	4.00																												M1-4	X		
		1	21	15	2.19																												M6-3 BLACK ON WHITE	X		
		1	24	12	2.00																												M4-5 WHITE ON BLUE FOR SIGN FRAME DETAIL SEE SHEET 126	X		
		1	24	24	4.00																												M1-1	X		
		1	21	15	2.19																												M6-1 WHITE ON BLUE	X		
200+29, RT	NORTH 5	1	24	12	2.00						1					X			X														M3-1 BLACK ON WHITE	X		
		1	24	24	4.00																												M1-4	X		
201+63, LT	ONLY	1	36	30	7.50						1					X			X														VR-922			E-145A
201+94, RT	St. Johnsbury Ctr 1	1	72	12	6.00						2					X			X														VD2-1		124	
	Lyndonville 7	1	72	12	6.00																												VD2-1		124	
203+00, LT	H	1	24	24	4.00						1					X			X														D9-2	X		
		1	21	15	2.19																												M5-1 WHITE ON BLUE	X		
203+83, RT	SPEED LIMIT 35	1	24	30	5.00						1					X			X														R2-1	X		
203+90, LT	EMERGENCY VEHICLES	1	36	36	9.00						2					X			X														VW-544			E-154
205+06, LT		1	30	30	6.25						1					X			X														W3-3	X		
											FT	FT	FT	FT	FT 136	FT		EA	LB	LB	LB		LB 228	LB	LB	LB									
	TOTALS		SF 86.32	SF	EA.	SF					FT			FT 136					LB			EA. 2	LB 228				EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #04

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss04.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 92 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 05

MILEMARKER, 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 FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
208+29, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
208+75, RT	Memorial Dr STOP 0050 0311 0395 B-B	1 1 1	42 30 6	12 30 10	3.50 6.25 0.42						1						X	X															D3-1 R1-1 VD-700	X	122	E-138
208+94, RT	Mountain View Dr	1	48	12	4.00						2					X		X																D3-1		122	
214+64, RT	St. Johnsbury Center Lyndon 4	1	30	18	3.75						1					X		X																VD-018		125	
214+84, RT	BRIDGE 132 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
214+89, LT	BRIDGE 132 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
217+81, LT	SPEED LIMIT 35	1	24	30	5.00						1					X		X																R2-1	X		
224+15, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
224+48, RT	Stetson Ter Memorial Dr STOP 0050 0311 0425 B-B	1 1 1 1	42 42 30 6	12 12 30 10	3.50 3.50 6.25 0.42						1						X	X															D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN D3-1 R1-1 VD-700	 X 	122 122 	 E-138
TOTALS			SF 47.25	SF	EA.	SF						FT	FT	FT	FT 22	FT 91	FT 30		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						
												FT			FT 143					LB			EA.	LB				EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #05

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss05.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 93 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 06

MILEMARKER, 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	FOUND-ATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
229+60, RT	Hill St / Memorial Dr / STOP B-B 0050 0311 0435	1	30	12	2.50						1						X	X															D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN		122	
		1	42	12	3.50																											D3-1		122	
		1	30	30	6.25																											RI-1	X		
		1	6	10	0.42																											VD-700			E-138
231+59, LT	Depot Hill Rd / Memorial Dr / STOP B-B 0050 0311 0438	1	42	12	3.50																											D3-1		122	
		1	42	12	3.50						1						X	X															D3-1		122	
		1	30	30	6.25																											RI-1	X		
		1	6	10	0.42																											VD-700			E-138
232+06, LT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X															VR-017			E-141
232+65, RT	AHEAD	1	30	30	6.25						1						X	X															WII-2 FLUORESCENT YELLOW-GREEN	X		
		1	24	12	2.00																											WI6-9P FLUORESCENT YELLOW-GREEN	X		
234+74, RT	BRIDGE 133 US 5	1	6	8	0.33						1				X			X															VD-701			E-134
234+92, LT	BRIDGE 133 US 5	1	6	8	0.33						1				X			X															VD-701			E-134
235+10, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X															VR-017			E-141
											FT	FT	FT	FT 22	FT 31	FT 46		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS			SF 45.25	SF	EA.	SF					FT			FT 99					LB			EA.	LB				EA.	EA.	LB					

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #06

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss06.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 94 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 07

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
235+56, RT	Memorial Dr STOP 0050 0311 0446 B-B	1	42	12	3.50																												D3-1		122	
		1	30	30	6.25						1						X	X														RI-1	X		
		1	6	10	0.42																												VD-700			
235+58, RT	Roberts Brook Ln	1	48	12	4.00						2					X		X														D3-1		122	
235+91, RT	NO PARKING ON TRAVELED LANE	1	24	30	5.00						1					X		X																126	
236+71, RT		1	30	30	6.25						1					X		X														W11-2	X		
		1	24	12	2.00																											W16-7	X		
237+01, LT		1	30	30	6.25						1					X		X														W11-2	X		
		1	24	12	2.00																											W16-7	X		
237+95, RT	STATE LAW LEGAL LOAD LIMIT 24,000 POUNDS	1	24	12	2.00						1					X		X														W16-18P FLUORESCENT YELLOW	X		
		1	24	30	5.00																											VR-017			E-141
TOTALS			SF 42.67		SF	EA.	SF					FT			FT		FT 107			LB			EA.		LB				EA.	EA.	LB					

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #07

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss07.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 95 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 08

MILEMARKER, 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	FOUNDATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
238+46, RT	Breezy Hill Rd / Memorial Dr / STOP 0050 0311 0452 B-B	1	42	12	3.50						1						X	X															D3-1		122	
		1	42	12	3.50																												D3-1		122	
		1	30	30	6.25																												RI-1	X		
		1	6	10	0.42																												VD-700			E-138
239+07, RT	NO PARKING ON TRAVELED LANE	1	24	30	5.00						1					X		X																	126	
242+79, RT	Sangar Cir / Memorial Dr / STOP 0050 0311 0460 B-B	1	36	12	3.00						1						X	X															D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN		122	
		1	42	12	3.50																												D3-1		122	
		1	30	30	6.25																												RI-1	X		
		1	6	10	0.42																												VD-700			E-138
243+75, LT	AHEAD	1	30	30	6.25						1						X	X															WII-2 FLUORESCENT YELLOW-GREEN	X		
		1	24	12	2.00																												WI6-9P FLUORESCENT YELLOW-GREEN	X		
250+22, RT		1	30	30	6.25						1					X		X															W3-3	X		
253+44, RT	0050 0311 0480	1	6	10	0.42						1				X			X															VD-700			E-138
255+01, RT	ONLY	1	30	30	6.25						1					X		X															VR-921			E-145A
TOTALS					SF 53.01	SF	EA.	SF				FT	FT	FT	FT 10	FT 46	FT 46		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						
												FT			FT 102					LB			EA.	LB											

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #08

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss08.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 96 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 09

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
256+30, RT	RIGHT LANE MUST TURN RIGHT	1	30	30	6.25						1					X		X																R3-7			E-145A
256+84, RT		1	24	30	5.00						1					X		X																R4-7	X		
		1	18	18	2.25																													OMI-1	X		
		1	6	10	0.42																													VD-700			E-138
	0050 0311 0486 B-B	1	18	18	2.25																													OMI-1	X		
257+19, LT	LEFT TURN YIELD ON GREEN	1	30	36	7.50																													RIO-12 MOUNT ON SPAN WIRE USING NEW MOUNTING HARDWARE (INCIDENTAL TO SIGN)	X		
257+60, LT	LEFT LANE MUST TURN LEFT	1	30	30	6.25						1					X		X																R3-7			E-145A
258+72, LT	SPEED LIMIT 35	1	30	36	7.50						1					X		X																R2-1	X		
258+72, RT	SPEED LIMIT 40	1	24	30	5.00						1					X		X																R2-1	X		
259+09, LT	ONLY	1	30	30	6.25						1					X		X																VR-921			E-145A
264+00, LT	0050 0311 0500	1	6	10	0.42						1				X			X																VD-700			E-138
264+79, LT		1	30	30	6.25						1					X		X																W3-3	X		
269+05, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
TOTALS					SF 60.34	SF	EA.	SF				FT	FT	FT	FT 10	FT 121	FT 131		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #09

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss09.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 97 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 10

MILEMARKER, 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	FOUNDATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
269+61, RT	Mt Pisgah Rd / Memorial Dr / STOP / 0050 0311 0511 B-B	1	42	12	3.50												X	X																D3-1		122	
		1	42	12	3.50						1						X	X																D3-1		122	
		1	30	30	6.25																													RI-1	X		
		1	6	10	0.42																													VD-700			E-138
270+64, RT	BRIDGE 134 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
271+20, LT	BRIDGE 134 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
271+92, LT	SPEED LIMIT 40	1	30	36	7.50						1					X		X																R2-1	X		
272+50, RT	SPEED LIMIT 50	1	24	30	5.00						1					X		X																R2-1	X		
273+92, LT	St. Johnsbury Center St. Johnsbury 4	1	30	18	3.75						1					X		X																VD-018		125	
274+56, RT	0050 0311 0520	1	6	10	0.42						1				X			X																VD-700			E-138
276+52, LT	SPEED LIMIT 40	1	36	36	9.00						2					X		X																W3-5	X		
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT 32	FT 77	FT 15		EA	LB	LB	LB		LB	LB	LB	LB								
	TOTALS				SF 40.00	SF	EA.	SF				FT			FT 124					LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #10

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss10.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 98 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 11

MILEMARKER, 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	FOUND-ATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
285+12, LT	0050 0311 0540	1	6	10	0.42						1				X			X																VD-700			E-138
290+00, RT	BRIDGE ICES BEFORE ROAD	1	36	36	9.00						2					X		X																W8-13	X		
	BRIDGE 135 US 5	1	6	8	0.33																													VD-701		E-134
295+00, LT	BRIDGE ICES BEFORE ROAD	1	36	36	9.00						2					X		X																W8-13	X		
	BRIDGE 135 US 5	1	6	8	0.33																													VD-701		E-134
295+68, RT	0050 0311 0560	1	6	10	0.42						1				X			X																VD-700			E-138
306+24, LT	0050 0311 0580	1	6	10	0.42						1				X			X																VD-700			E-138
312+45, RT	XX M.P.H.	1	30	30	6.25						1						X	X																W1-5R	X		
		1	18	18	2.25																													W13-1P	X		
316+80, RT	0050 0311 0600	1	6	10	0.42						1				X			X																VD-700			E-138
320+03, LT		1	48	24	8.00						2					X		X																W1-6	X		
323+75, LT		1	48	24	8.00						2					X		X																W1-6	X		
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT 41	FT 124	FT 16		EA	LB	LB	LB		LB	LB	LB	LB								
	TOTALS				SF 44.84	SF	EA.	SF				FT			FT 181					LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #11

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss11.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 99 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 12

MILEMARKER, 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 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
329+69, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
329+71, RT	VAST TRAIL ACCESS PARKING / VAST TRAIL ACCESS PARKING B-B						2				1					X		X																		
330+09, RT	Pierce Rd	1	36	12	3.00						1						X	X																D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN		122	
	Memorial Dr	1	42	12	3.50																												D3-1		122	
	STOP	1	30	30	6.25																												RI-1	X		
	0050 0311 0625 B-B	1	6	10	0.42																												VD-700			E-138
335+00, LT	XX M.P.H.	1	30	30	6.25						1						X	X																W1-5R	X		
		1	18	18	2.25																												W13-1P	X		
335+97, RT	DO NOT PASS	1	24	30	5.00						1					X		X																VR-017			E-141
336+11, LT	NO PASSING ZONE B-B / PASS WITH CARE	1	48 X 48 X 36		5.56						2					X		X																W14-3	X		
		1	24	30	2.25																												R4-2	X		
337+00, RT	XX M.P.H.	1	30	30	6.25						1						X	X																W2-2	X		
		1	18	18	2.25																												W13-1P	X		
337+55, RT	BRIDGE 136 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
338+44, LT	BRIDGE 136 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT 22	FT 77	FT 49		EA	LB	LB	LB		LB	LB	LB	LB									
	TOTALS				SF 48.64	SF	EA. 2	SF				FT			FT 148					LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #12

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss12.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 100 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 13

MILEMARKER, 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 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
339+50, LT	Gordon Mills Way	1	48	12	4.00						2					X		X																D3-1		122	
339+66, LT	Memorial Dr STOP 0050 0311 0643 B-B	1 1 1	42 30 6	12 30 10	3.50 6.25 0.42						1						X	X															D3-1 RI-1 VD-700	X	122	E-138
340+36, RT	STOP 0050 0311 0645 B-B	1 1	30 6	30 10	6.25 0.42						1					X		X															RI-1 VD-700	X		E-138
343+11, LT	XX M.P.H.	1 1	30 18	30 18	6.25 2.25						1						X	X															W2-2 W13-1P	X X		E-134
344+88, LT	DO NOT PASS	1	24	30	5.00						1					X		X															VR-017			E-141
345+12, RT	PASS WITH CARE B-B NO PASSING ZONE	1 1	24 48 X 48 X 36	30	2.25 5.56						2					X		X															R4-2 W14-3	X X		E-134
348+48, LT	0050 0311 0660	1	6	10	0.42						1				X			X															VD-700			E-138
352+17, RT	BRIDGE ICES BEFORE ROAD BRIDGE 137 US 5	1 1	36 6	36 8	9.00 0.33						2					X		X															W8-13 VD-701	X		E-134

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

											FT	FT	FT	FT 10	FT 122	FT 31		EA	LB	LB	LB		LB	LB	LB	LB									
TOTALS	SF 51.90	SF	EA.	SF		FT			FT 163					LB			EA.	LB				EA.	EA.	LB												

TRAFFIC SIGN SUMMARY SHEET #13

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss13.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 101 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 14

MILEMARKER, 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) FOUND-ATION	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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
354+09, LT	BRIDGE ICES BEFORE ROAD / BRIDGE 137 US 5	1	36	36	9.00						2					X		X															W8-13	X		
		1	6	8	0.33																												VD-701			E-134
359+04, RT	0050 0311 0680	1	6	10	0.42						1				X			X															VD-700			E-138
369+60, LT	0050 0311 0700	1	6	10	0.42						1				X			X															VD-700			E-138
373+70, LT		1	36	36	9.00						2					X		X															S3-1	X		
380+16, RT	0050 0311 0720	1	6	10	0.42						1				X			X															VD-700			E-138
390+49, RT	Industrial Pkwy	1	30	30	6.25						1					X		X															W2-2	X		
		1	30	8	1.67																												W16-8P		125	
390+72, LT	0050 0311 0740	1	6	10	0.42						1				X			X															VD-700			E-138
394+22, LT	Industrial Pkwy / Memorial Dr / STOP B-B / 0050 0311 0747	1	42	12	3.50						1						X	X															D3-1		122	
		1	42	12	3.50																												D3-1		122	
		1	30	30	6.25																												R1-1	X		
		1	6	10	0.42																												VD-700			E-138
TOTALS					SF 41.60	SF	EA.	SF				FT	FT	FT	FT 40	FT 78	FT 15		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						
																	133																			

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #14

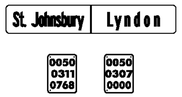
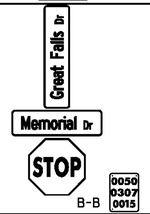
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss14.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 102 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 15

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 ST. JOHNSBURY (CONT.)																																				
399+93, RT		1	30	30	6.25						1						X	X															WI-4	X		
		1	18	18	2.25																												WI3-IP	X		
401+28, RT		1	6	10	0.42						1				X			X															VD-700			E-138
U.S. ROUTE 5 LYNDON																																				
0+00, LT		1	72	10	5.00						2					X		X															VD-024		125	
		1	6	10	0.42																												VD-700			E-138
		1	6	10	0.42																												VD-700			E-138
1+00, RT		1	30	30	6.25						1					X		X															WII-6H INSTALL IN CLOSED POSITION (TYP.)			E-153
7+72, RT		1	24	30	5.00						1					X		X															VR-017			E-141
8+20, RT		1	42	12	3.50						1						X	X															D3-1		122	
		1	42	12	3.50																												D3-1		122	
		1	30	30	6.25																												RI-1	X		
		1	6	10	0.42																												VD-700			E-138
9+50, LT		1	30	30	6.25						1					X		X															WII-6H INSTALL IN CLOSED POSITION (TYP.)			E-153
16+00, LT		1	30	30	6.25						1						X	X															WI-4	X		
		1	18	18	2.25																												WI3-IP	X		
											FT	FT	FT	FT 10	FT 77	FT 47		EA	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 54.43	SF	EA.	SF			FT			FT 134					LB			EA.	LB				EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #15

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss15.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 103 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 16

MILEMARKER, 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 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
16+51, RT	BRIDGE 138 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
17+25, LT	BRIDGE 138 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
21+12, LT	0050 0307 0040	1	6	10	0.42						1				X			X																VD-700			E-138
21+60, RT	BRIDGE 139 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
21+78, LT	BRIDGE 139 US 5	1	6	8	0.33						1				X			X																VD-701			E-134
31+68, RT	0050 0307 0060	1	6	10	0.42						1				X			X																VD-700			E-138
36+13, RT	SPEED LIMIT 40	1	36	36	9.00						2					X		X																W3-5	X		
38+13, RT	Lyndon Lyndonville 2	1	30	18	3.75						1					X		X																VD-018		125	
40+13, LT	SPEED LIMIT 50	1	24	30	5.00						1					X		X																R2-1	X		
40+13, RT	SPEED LIMIT 40	1	30	36	7.50						1					X		X																R2-1	X		
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."																																				
TOTALS		SF 27.41	SF	EA.	SF				FT	FT	FT	FT 65	FT 75	FT 140	FT		EA	LB	LB	LB		EA.	LB	LB	LB	LB		EA.	EA.	LB					

TRAFFIC SIGN SUMMARY SHEET #16

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss16.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 104 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 17

MILEMARKER, 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	FOUNDATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
42+43, RT	13'-11"	1	36	36	9.00						2					X		X																W12-2	X		
	1/2 MILE	1	30	24	5.00																													W16-3P	X		
43+92, LT	Industrial Pkwy	1	42	12	3.50						1						X	X																D3-1		122	
	Memorial Dr	1	42	12	3.50																													D3-1		122	
	STOP	1	30	30	6.25																													R1-1	X		
	0050 0307 0083 B-B	1	6	10	0.42																													VD-700			E-138
44+42, LT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
45+96, RT	BRIDGE 139A US 5	1	6	8	0.33						1				X			X																VD-701			E-134
48+05, LT	BRIDGE 139A US 5	1	6	8	0.33						1				X			X																VD-701			E-134
50+69, RT	SPEED LIMIT 35	1	24	30	5.00						1					X		X																R2-1	X		
50+69, LT	SPEED LIMIT 40	1	24	30	5.00						1					X		X																R2-1	X		
52+26, RT		1	36	36	9.00						2					X		X																S3-1	X		
	0050 0307 0099	1	6	10	0.42																													VD-700			E-138
TOTALS					SF 52.75	SF	EA.	SF				FT	FT	FT	FT 21	FT 105	FT 15		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #17

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss17.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 105 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 18

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
56+54, RT	XX M.P.H.	1	30	30	6.25						1						X	X															WI-3	X		
		1	18	18	2.25																												WI3-IP	X		
59+13, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X														VR-017			E-141
59+78, RT	Ledge Rd / Memorial Dr / STOP B-B 0050 0307 0113	1	36	12	3.00						1						X	X														D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN		122	
		1	42	12	3.50																										D3-1		122	
		1	30	30	6.25																										RI-1	X		
		1	6	10	0.42																										VD-700			E-138
60+58, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X														VR-017			E-141
60+77, RT	Mattocks Park / Memorial Dr / STOP B-B 0050 0307 0115	1	42	12	3.50						1						X	X														D3-1		122	
		1	42	12	3.50																										D3-1		122	
		1	30	30	6.25																										RI-1	X		
		1	6	10	0.42																										VD-700			E-138
62+31, RT	NO PARKING	1	12	18	1.50						1					X		X																125	
62+40, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X														VR-017			E-141
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."											FT	FT	FT	FT 60	FT 46		EA	LB	LB	LB		LB	LB	LB	LB									
	TOTALS				SF 51.84	SF	EA.	SF				FT			FT 106				LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #18

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss18.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 106 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 19

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
62+55, RT	Post Office Ln / Memorial Dr / STOP 0050 0307 0119 B-B	1	42	12	3.50						1						X	X															D3-1		123	
		1	42	12	3.50																											D3-1		122	
		1	30	30	6.25																											RI-1	X		
		1	6	10	0.42																											VD-700			E-138
63+23, LT	NO PARKING CORNER TO HERE	1	12	18	1.50						1					X		X																125	
63+74, LT	←	1	48	24	8.00						2					X		X														WI-6L	X		
63+85, LT	York St / Memorial Dr / STOP 0050 0307 0121 B-B	1	36	12	3.00																											D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN		123	
		1	42	12	3.50						1						X	X														D3-1		122	
		1	30	30	6.25																											RI-1	X		
		1	6	10	0.42																											VD-700			E-138
64+05, LT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X														VR-017			E-141
64+13, LT	STOP	1	24	24	4.00											X		X														RI-1	X		
64+46, LT	→	1	48	24	8.00						2					X		X														WI-6R	X		
TOTALS			SF 53.34		SF	EA.	SF					FT	FT	FT	FT 107	FT 30	FT 137	EA	EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #19

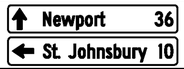
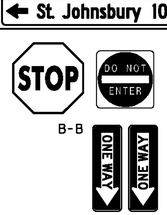
PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss19.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 107 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 20

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
64+97, LT		1	36	36	9.00						2					X		X																S3-1	X		
69+00, LT							1				1					X		X																		
70+46, LT							1 1				2					X		X																		
72+17, LT	B-B	1	6	10	0.42																												MOUNT NEW MILEMARKER BACK-TO-BACK WITH EXISTING STOP SIGN ON EXISTING POST VD-700			E-138
73+39, RT							1 1		2																								MOUNT SALVAGED SIGNS ON EXISTING POSTS			
74+17, LT	 B-B B-B	1	36	36	9.00		1 1 1				1						X	X																R1-1 MOUNT NEW STOP SIGN BACK-TO-BACK WITH SALVAGED R5-1 SIGN R5-1 SALVAGED SIGN R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1 R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1	X		
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT	75 FT	15 FT		EA	LB	LB	LB		LB	LB	LB	LB								
	TOTALS				SF 18.42	SF	EA. 8	SF				FT			FT 90					LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #20

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss20.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 108 OF 133

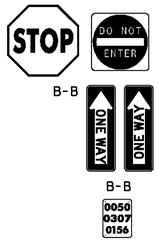
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 21

MILEMARKER, 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) FOUND-ATION	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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
74+55, LT	STOP B-B; 0050 0307 0141	1	36	36	9.00		1				1						X	X																RI-1 MOUNT NEW STOP SIGN BACK-TO-BACK WITH SALVAGED R4-7 SIGN	X		
		1	6	10	0.42		1																									VD-700			E-138
76+88, RT	BRIDGE 139B US 5	1	6	8	0.33																											VD-701 MOUNT NEW BRIDGE PLAQUE BELOW EXISTING SIGN ON EXISTING POST			E-134
79+54, RT	ONLY	1	30	30	6.25						1					X		X														VR-921			E-145A
79+56, LT	BRIDGE 139B US 5	1	6	8	0.33																											VD-701 MOUNT NEW BRIDGE PLAQUE BELOW EXISTING SIGN ON EXISTING POST			E-134
81+68, LT	13'-11" 200 FT	1	24	12	2.00		1				2					X		X														W16-2aP	X		
82+18, RT	STOP DO NOT ENTER B-B; ONE WAY ONE WAY B-B	1	36	36	9.00		1				1						X	X															RI-1 MOUNT NEW STOP SIGN BACK-TO-BACK WITH SALVAGED R5-1 SIGN R5-1 SALVAGED SIGN R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1 R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1	X		
							1																													
							1																													
							1																													

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 22

MILEMARKER, 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	FOUNDATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																						
82+60, RT		1	36	36	9.00						1						X	X																R1-1 R5-1 R6-1 R6-1 VD-700	MOUNT NEW STOP SIGN BACK-TO-BACK WITH SALVAGED R5-1 SIGN SALVAGED SIGN INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1	X		E-138
							1																															
							1																															
							1																															
		1	6	10	0.42																																	
84+70, RT		1	6	10	0.42						1				X			X																VD-700	MOUNT NEW MILE MARKER SIGN BELOW EXISTING STREET SIGN ON EXISTING POST			E-138
84+95, LT		1	6	10	0.42																													VD-700	MOUNT NEW MILE MARKER SIGN BELOW EXISTING SIGNS ON EXISTING POST			E-138
86+54, LT		1	48	30	10.0						2					X		X																VR-932				E-145B
87+67, RT		1	6	8	0.33																													VD-701	MOUNT NEW BRIDGE PLAQUE BELOW EXISTING SIGN ON EXISTING POST			E-134
90+03, LT		1	30	30	6.25						1					X		X																VR-921				E-145A
		1	6	8	0.33																													VD-701				E-134
91+29, RT		1	36	36	7.07						1					X		X																W10-1		X		
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT 10	FT 65	FT 15		EA	LB	LB	LB		LB	LB	LB	LB									
	TOTALS				SF 34.24	SF	EA. 3	SF				FT			FT 90					LB			EA.	LB				EA.	EA.	LB								

TRAFFIC SIGN SUMMARY SHEET #22

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss22.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 110 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 23

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
92+30, LT		1	30	30	6.25						1					X		X																W3-3	X		
93+97, RT		1	24	36	5.00						1					X		X																R8-10	X		
94+07, RT (2 SIGNS)		2	48	9	12.00																													R15-1, MOUNT ONE SET TO EXISTING RAILROAD SIGNAL POLE, AND THE OTHER SET TO THE CANTILEVER; OVERLAY THE ENTIRE BACK OF THE CROSSBUCK SIGNS WITH REFLECTIVE SHEETING.	X		
		1	15	9	0.94																													I-13, MOUNT ON EXISTING RAILROAD SIGNAL POLE WITH ONE R15-1 SIGN.		26	
94+25, RT		1	15	9	0.94																													I-13, MOUNT ON EXISTING RR CONTROL BOX		26	
95+38, LT (2 SIGNS)		2	48	9	12.00																													R15-1, MOUNT ONE SET TO EXISTING RAILROAD SIGNAL POLE, AND THE OTHER SET TO THE CANTILEVER; OVERLAY THE ENTIRE BACK OF THE CROSSBUCK SIGNS WITH REFLECTIVE SHEETING.	X		
		1	15	9	0.94																													I-13, MOUNT ON EXISTING RAILROAD SIGNAL POLE WITH ONE R15-1 SIGN.		26	
95+50, LT		1	24	36	5.00						1					X		X																R8-10	X		
95+62, RT		1	42	12	3.50																													D3-1		123	
		1	42	12	3.50						1						X	X																D3-1		122	
		1	30	30	6.25																													RI-1	X		
		1	6	10	0.42																													VD-700			E-138
												FT	FT	FT	FT	47 FT	15 FT		EA	LB	LB	LB		LB	LB	LB	LB									
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."	**TOTALS**		SF 56.74	SF	EA.	SF			FT						FT 62					LB			EA.		LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #23

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss23.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET III OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 24

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
96+21, LT	ONLY	1	30	30	6.25						1					X		X																VR-921			E-145A
98+66, RT	SPEED LIMIT 35	1	24	30	5.00						1					X		X																R2-1	X		
99+16, LT	R R	1	36	36	7.07						1					X		X																W10-1	X		
99+81, LT	END / R	1 1	24 24	12 24	2.00 4.00						1					X		X																M4-6 (RED ON WHITE) R8-3	X X		
102+24, RT	DEAD END	1	30	30	6.25						1					X		X																W14-1	X		
102+27, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
102+55, RT	Passumpsic St / Broad St / STOP / 0050 0307 0194 B-B	1 1 1 1	42 36 30 6	12 12 30 10	3.50 3.00 6.25 0.42						1							X	X															D3-1 D3-1 R1-1 VD-700	 X 	123 123 	 E-138
103+00, RT	BEGIN / R	1 1	24 24	12 24	2.00 4.00						1					X		X																M4-14 (RED ON WHITE) R8-3	X X		
												FT	FT	FT	FT	FT 105	FT 15		EA	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 54.74	SF	EA.	SF				FT			FT 120					LB			EA.	LB				EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #24

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss24.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 112 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 25

MILEMARKER, 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	FOUNDATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
105+53, RT	R	1	24	24	4.00						1					X		X																R8-3	X		
105+77, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
106+14, RT	Pleasant St Broad St STOP B-B 0050 0307 0201	1 1 1 1	42 36 30 6	12 12 30 10	3.50 3.00 6.25 0.42						1							X	X															D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN D3-1 R1-1 VD-700	 X 	123 123 	 E-138
106+60, LT	R	1	24	24	4.00						1					X		X																R8-3	X		
110+11, LT	BEGIN R	1 1	24 24	12 24	2.00 4.00						1					X		X																M4-14 (RED ON WHITE) R8-3	X X		
110+15, RT	END R	1 1	24 24	12 24	2.00 4.00						1					X		X																M4-6 (RED ON WHITE) R8-3	X X		
111+43, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
TOTALS			SF 43.17	SF	EA.	SF						FT	FT	FT	FT	FT 90	FT 15		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						
																FT 105																				

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #25

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss25.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 113 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 26

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
111+85, RT	Boston St / Broad St / STOP 0050 0307 0212 B-B	1	36	12	3.00						1						X	X															D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN		123	
		1	36	12	3.00																										D3-1		123	
		1	30	30	6.25																										R1-1	X		
		1	6	10	0.42																										VD-700			E-138
114+70, RT	SPEED LIMIT 35	1	24	30	5.00						1					X		X													R2-1	X		
115+71, RT	ONLY 0050 0307 0219	1	30	30	6.25						1					X		X													VR-92I			E-145A
		1	6	10	0.42																										VD-700			E-138
124+30, RT	Charles St / Broad St / STOP BRIDGE 142 US 5 90° B-B 0050 0307 0236	1	36	12	3.00						1						X	X													D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN		123	
		1	36	12	3.00																										D3-1		123	
		1	30	30	6.25																										R1-1	X		
		1	6	10	0.42																										VD-700			E-138
		1	6	8	0.33																										VD-701			E-134
124+75, LT	BRIDGE 142 US 5	1	6	8	0.33						1				X			X													VD-701			E-134
136+35, RT	R R	1	36	36	7.07						1					X		X													W10-1	X		
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT 10	FT 45	FT 30		EA	LB	LB	LB		LB	LB	LB	LB									
	TOTALS		SF 44.74	SF	EA.	SF						FT			FT 85					LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #26

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss26.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 114 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 27

MILEMARKER, 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 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
U.S. ROUTE 5 LYNDON (CONT.)																																				
137+50, RT	0050 0307 0260	1	6	10	0.42						1				X			X																VD-700			E-138
139+50, LT	STATE HIGHWAY ENDS / STATE HIGHWAY BEGINS B-B	1	24	18	3.00																												VR-038			E-141
		1	24	18	3.00																												VR-039			E-141
	SPEED LIMIT 35	1	24	30	5.00						1					X		X															R2-1	X		
	0050 0307 0264	1	6	10	0.42																												VD-700			E-138
ST. JOHNSBURY STATE HIGHWAY		1	24	12	2.00																												M3-1 BLACK ON WHITE	X		
		1	24	24	4.00																												MI-4	X		
		1	21	15	2.19																												M6-1 BLACK ON WHITE	X		
0+75, LT	NORTH SOUTH TO 5 5 2	1	24	12	2.00																												M3-3 BLACK ON WHITE	X		
		1	24	24	4.00						2												2	X								MI-4 SIGN FRAME DETAIL SEE SHEET 126	X		
		1	21	15	2.19																												M6-1 BLACK ON WHITE	X		
		1	24	12	2.00																												M4-5 BLACK ON WHITE	X		
		1	24	24	4.00																												MI-4	X		
		1	21	15	2.19																												M6-1 BLACK ON WHITE	X		
0+94, RT	TO 91	1	24	12	2.00																												M4-5 WHITE ON BLUE	X		
		1	24	24	4.00						1					X		X															MI-1	X		
1+50, LT	ONLY	1	36	30	7.50						1					X		X															VR-922			E-145A
1+63, RT	Newport 41	1	72	12	6.00						2					X		X															VD2-1		124	
	White River Jct. 65	1	72	12	6.00																												VD2-1		124	
2+57, RT	BRIDGE ICES BEFORE ROAD	1	36	36	9.00						2					X		X															W8-13	X		
TOTALS					SF 70.91	SF	EA.	SF				FT	FT	FT	FT 10	FT 107	FT 117		EA	LB	LB	LB	EA. 2	LB 114	LB	LB	LB	EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #27

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss27.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 115 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 28

MILEMARKER, 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 FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
ST. JOHNSBURY STATE HIGHWAY (CONT.)																																				
2+67, LT	← Lyndonville 7	1	72	12	6.00						2						X	X																VDI-1a		124	
	← St. Johnsbury Ctr. 1	1	72	12	6.00																													VDI-1a		124	
	St. Johnsbury 2 →	1	72	12	6.00																													VDI-1a		124	
3+60, RT	SLOWER TRAFFIC KEEP RIGHT	1	24	30	5.00						1					X		X																R4-3	X		
	BRIDGE 1 9730	1	6	8	0.33																													VD-701			E-134
3+67, LT	↑ HOSPITAL	1	54	7.5	2.81						2					X		X																			E-133
	← FOOD 3 →	1	54	7.5	2.81																																E-133
	← GAS/DIESEL 2 →	1	54	7.5	2.81																																E-133
	← 4 LODGING 1 →	1	54	7.5	2.81																																E-133
	← 1 INFORMATION	1	54	7.5	2.81																																E-133
4+00, LT	JCT 5	1	21	15	2.19						1					X		X																M2-1 BLACK ON WHITE	X		
		1	24	24	4.00																													MI-4	X		
8+00, RT		1	36	36	9.00						2					X		X																WI-10	X		
	XX M.P.H.	1	18	18	2.25																													WI3-1P	X		
8+00, LT	BRIDGE 1 9730	1	6	8	0.33						1				X			X																VD-701			E-134
9+67, LT		1	30	30	6.25						1						X	X																W3-3	X		
	800 FEET	1	24	18	3.00																													W16-2P	X		
												FT	FT	FT	FT 11	FT 92	FT 50		EA	LB	LB	LB		LB	LB	LB	LB								
	TOTALS		SF 64.40	SF	EA.	SF						FT			FT 153					LB			EA.	LB				EA.	EA.	LB					

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #28

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss28.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 116 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 29

MILEMARKER, 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	FOUND-ATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
ST. JOHNSBURY STATE HIGHWAY (CONT.)																																				
10+80, LT	B-B	1	18	24	3.00						1					X		X																WI-8	X		
		1	18	24	3.00																													WI-8	X		
11+17, LT	BRIDGE ICES BEFORE ROAD	1	36	36	9.00						2					X		X																W8-13	X		
12+00, LT	B-B	1	18	24	3.00						1					X		X																WI-8	X		
		1	18	24	3.00																													WI-8	X		
12+37, LT	Old Center Rd / Hospital Dr / STOP 9730 0311 0023 B-B	1	42	12	3.50						1							X	X															D3-1		123	
		1	42	12	3.50																													D3-1		122	
		1	30	30	6.25																													RI-1	X		
		1	6	10	0.42																													VD-700			E-138
12+71, LT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
13+56, LT	B-B	1	18	24	3.00						1					X		X																WI-8	X		
		1	18	24	3.00																													WI-8	X		
14+76, LT	B-B	1	18	24	3.00						1					X		X																WI-8	X		
		1	18	24	3.00																													WI-8	X		
15+96, LT	B-B	1	18	24	3.00						1					X		X																WI-8	X		
		1	18	24	3.00																													WI-8	X		
17+16, LT	B-B	1	18	24	3.00						1					X		X																WI-8	X		
		1	18	24	3.00																													WI-8	X		
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT	FT 117	FT 15		EA	LB	LB	LB		LB	LB	LB	LB								
	TOTALS				SF 63.67	SF	EA.	SF				FT			FT 132					LB			EA.	LB				EA.	EA.	LB					

TRAFFIC SIGN SUMMARY SHEET #29

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss29.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 117 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 30

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
ST. JOHNSBURY STATE HIGHWAY (CONT.)																																				
20+61, LT	W1-10 / XX M.P.H.	1	36	36	9.00						2					X		X															WI-10	X		
		1	18	18	2.25																												WI3-IP	X		
21+12, LT	9730 0311 0040	1	6	10	0.42						1				X			X															VD-700			E-138
26+95, RT	BRIDGE 2 9730	1	6	8	0.33						1				X			X															VD-701			E-134
27+18, LT	BRIDGE 2 9730	1	6	8	0.33						1				X			X															VD-701			E-134
28+14, LT	W7-1a 7% 2600 FEET	1	30	30	6.25						1						X	X															W7-1a	X		
		1	24	18	3.00																												W16-2P	X		
32+11, RT	W4-2	1	36	36	9.00						2					X		X															W4-2	X		
32+84, RT	LEGAL LOAD LIMIT 16,000 POUNDS	1	24	30	5.00						1					X		X															VR-017			E-141
33+38, RT	Depot Hill Rd / Hospital Dr / STOP B-B 9730 0311 0063	1	42	12	3.50						1						X	X															D3-1		122	
		1	42	12	3.50																												D3-1		122	
		1	30	30	6.25																												RI-1	X		
		1	6	10	0.42																												VD-700			E-138
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."												FT	FT	FT	FT 30	FT 75	FT 31		EA	LB	LB	LB		LB	LB	LB	LB									
	TOTALS				SF 49.25	SF	EA.	SF				FT			FT 136					LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #30

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss30.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 118 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 31

MILEMARKER, 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
ST. JOHNSBURY STATE HIGHWAY (CONT.)																																				
42+24, LT	9730 0311 0080	1	6	10	0.42						1				X			X																VD-700			E-138
45+46, RT	Lapierre Rd / Hospital Dr / STOP / B-B / 9730 0311 0086	1	42	12	3.50						1						X	X															D3-1 INSTALL STREET SIGNS 90 DEGREES TO EACH OTHER ABOVE STOP SIGN		123	
		1	42	12	3.50																											D3-1		122	
		1	30	30	6.25																											R1-1	X			
		1	6	10	0.42																											VD-700			E-138
47+03, LT	STOP / DO NOT ENTER / B-B / ONE WAY / ONE WAY / B-B	1	36	36	9.00		1				1					X		X															R1-1 MOUNT NEW STOP SIGN BACK-TO-BACK WITH SALVAGED R5-1 SIGN R5-1 SALVAGED SIGN R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1 R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1	X		
	9730 0311 0089	1	6	10	0.42																											VD-700			E-138
47+52, LT	STOP / DO NOT ENTER / B-B / ONE WAY / ONE WAY / B-B	1	36	36	9.00		1				1					X		X															R1-1 MOUNT NEW STOP SIGN BACK-TO-BACK WITH SALVAGED R5-1 SIGN R5-1 SALVAGED SIGN R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1 R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1	X		
48+64, RT	BRIDGE 2A 9720	1	6	8	0.33						1				X			X															VD-701			E-134
50+42, LT	BRIDGE 2A 9720	1	6	8	0.33						1				X			X															VD-701			E-134
TOTALS					SF 33.17	SF	EA. 6	SF				FT	FT	FT	FT 32	FT 30	FT 15		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						
												FT			FT 77					LB			EA.	LB				EA.	EA.	LB						

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

TRAFFIC SIGN SUMMARY SHEET #31

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss31.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 119 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 32

MILEMARKER, 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	FOUNDATION	TUBULAR STEEL Ø (In) 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 IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
ST. JOHNSBURY STATE HIGHWAY (CONT.)																																				
51+14, RT	BRIDGE 905 9730	1	6	8	0.33						1				X			X																VD-701			E-134
52+00, LT	BRIDGE 905 9730	1	6	8	0.33						1				X			X																VD-701			E-134
53+46, RT	STOP B-B; DO NOT ENTER; ONE WAY B-B; ONE WAY	1	36	36	9.00		1 1 1				1					X		X																RI-1 MOUNT NEW STOP SIGN BACK-TO-BACK WITH SALVAGED R5-1 SIGN R5-1 SALVAGED SIGN R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1 R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1	X		
53+89, RT	STOP B-B; DO NOT ENTER; ONE WAY B-B; ONE WAY; 9730 0311 0102	1	6	10	0.42		1 1 1				1					X		X																RI-1 MOUNT NEW STOP SIGN BACK-TO-BACK WITH SALVAGED R5-1 SIGN R5-1 SALVAGED SIGN R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1 R6-1 INSTALL SALVAGED SIGN 90 DEGREES TO SALVAGED SIGN R5-1 VD-700	X		E-138
54+96, LT	STATE HIGHWAY ENDS						1																											INSTALL SALVAGED SIGN BACK-TO-BACK WITH EXISTING "STATE HIGHWAY BEGINS" SIGN ON EXISTING POST			
54+96, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					X		X																VR-017			E-141
"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS 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."	**TOTALS**	SF 24.08	SF	EA. 7	SF		FT	FT	FT	FT 21	FT 45	FT 66		EA	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB				

TRAFFIC SIGN SUMMARY SHEET #32

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss32.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 120 OF 133

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 33

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																		REMARKS	SIGN DETAIL		
		EA	WIDTH (In)	HEIGHT (In)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft			SQUARE STEEL (In) lb/ft			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (In) lb/ft			FOUND-ATION	TUBULAR STEEL Ø (In) lb/ft					W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED		DETAIL IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												1.12	2.0	3.0	1.75	2.0	2.5			3.0	4.0	4.0 MOD		3.0	3.5	4.0	5.0	24"	30"							
															1.88	2.42	3.35			1.3	1.7	1.7		7.6	9.0	10.8	14.6									
	SHEET 89 SUBTOTALS				27.33		1								63	31	17		1																	
	SHEET 90 SUBTOTALS				68.78										20	109							2	198												
	SHEET 91 SUBTOTALS				71.30											105	32																			
	SHEET 92 SUBTOTALS				86.32											136							2	228												
	SHEET 93 SUBTOTALS				47.25										22	91	30																			
	SHEET 94 SUBTOTALS				45.25										22	31	46																			
	SHEET 95 SUBTOTALS				42.67											92	15																			
	SHEET 96 SUBTOTALS				53.01										10	46	46																			
	SHEET 97 SUBTOTALS				60.34										10	121																				
	SHEET 98 SUBTOTALS				40.00										32	77	15																			
	SHEET 99 SUBTOTALS				44.84										41	124	16																			
	SHEET 100 SUBTOTALS				48.64		2								22	77	49																			
	SHEET 101 SUBTOTALS				51.90										10	122	31																			
	SHEET 102 SUBTOTALS				41.60										40	78	15																			
	SHEET 103 SUBTOTALS				54.43										10	77	47																			
	SHEET 104 SUBTOTALS				27.41										65	75																				
	SHEET 105 SUBTOTALS				52.75										21	105	15																			
	SHEET 106 SUBTOTALS				51.84											60	46																			
	SHEET 107 SUBTOTALS				53.34											107	30																			
	SHEET 108 SUBTOTALS				18.42		8									75	15																			
	SHEET 109 SUBTOTALS				27.33		6									45	30																			
	SHEET 110 SUBTOTALS				34.24		3								10	65	15																			
	SHEET 111 SUBTOTALS				56.74											47	15																			
	SHEET 112 SUBTOTALS				54.74											105	15																			
	SHEET 113 SUBTOTALS				43.17											90	15																			
	SHEET 114 SUBTOTALS				44.74										10	45	30																			
	SHEET 115 SUBTOTALS				70.91										10	107							2	114												
	SHEET 116 SUBTOTALS				64.40										11	92	50																			
	SHEET 117 SUBTOTALS				63.67											117	15																			
	SHEET 118 SUBTOTALS				49.25										30	75	31																			
	SHEET 119 SUBTOTALS				33.17		6								32	30	15																			
	SHEET 120 SUBTOTALS				24.08		7								21	45																				
	PROJECT SUBTOTALS				1553.86		33								512	2602	696						6	540												
	ROUNDING				1.14		-								3	3	4						-	5												

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

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."

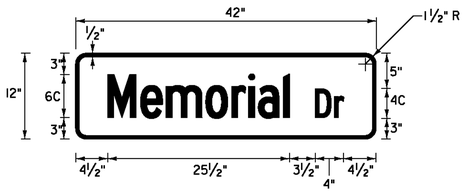
											FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB									
														515	2605	700		1					545												
TOTALS		SF	SF	EA.	SF						FT			FT					LB			EA.			LB				EA.	EA.	LB				
		1555		33										3820								6			545									

TRAFFIC SIGN SUMMARY SHEET #33

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss33.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 121 OF 133



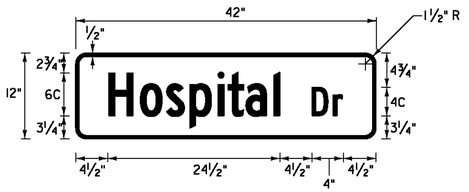
D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 199+19, RT
STA. 208+75, RT
STA. 224+48, RT
STA. 229+60, RT
STA. 231+59, LT
STA. 235+56, RT
STA. 238+46, RT
STA. 242+79, RT
STA. 269+61, RT
STA. 330+09, RT
STA. 339+50, LT
STA. 394+22, LT

LYNDON U.S. ROUTE 5
STA. 8+20, RT
STA. 43+92, LT
STA. 59+78, RT
STA. 60+77, RT
STA. 62+55, RT
STA. 63+85, LT
STA. 95+62, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM



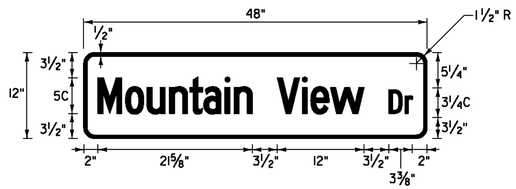
D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 199+19, RT

ST. JOHNSBURY STATE HIGHWAY
STA. 12+37, LT
STA. 33+38, RT
STA. 45+46, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

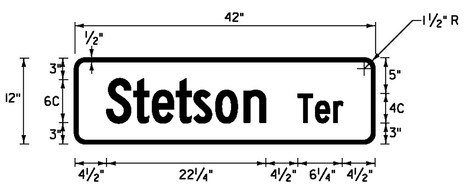


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 208+94, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

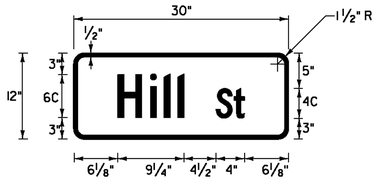


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 224+48, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

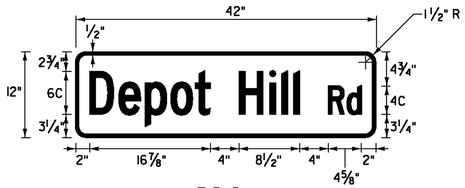


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 229+60, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM



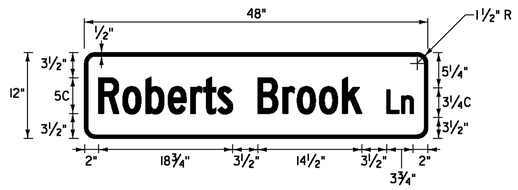
D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 231+59, LT

ST. JOHNSBURY STATE HIGHWAY
STA. 33+38, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

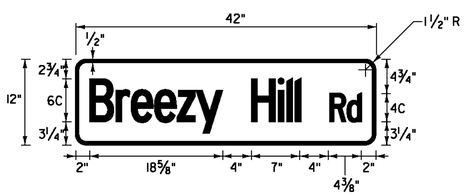


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 235+58, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

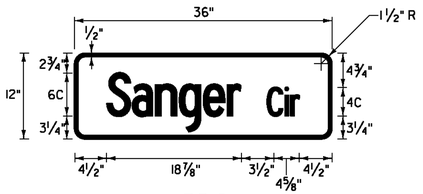


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 238+46, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

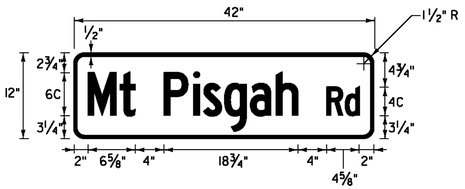


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 242+79, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

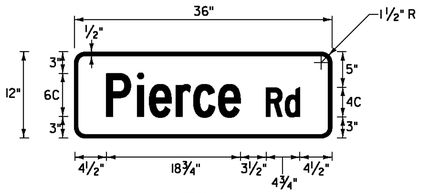


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 269+61, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

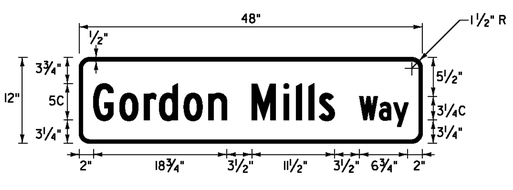


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 330+09, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

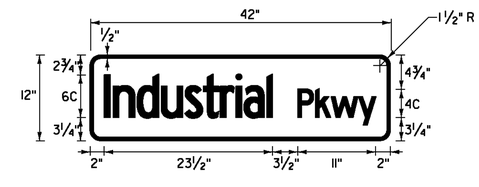


D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 339+50, LT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM



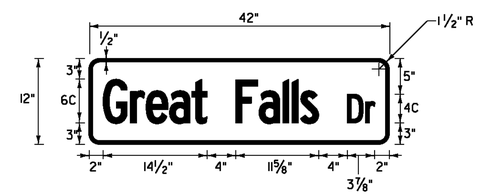
D3–1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 394+22, LT

LYNDON U.S. ROUTE 5
STA. 43+92, LT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

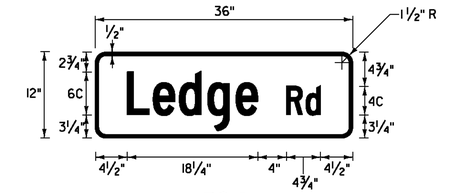


D3–1

LOCATION: LYNDON U.S. ROUTE 5
STA. 8+20, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

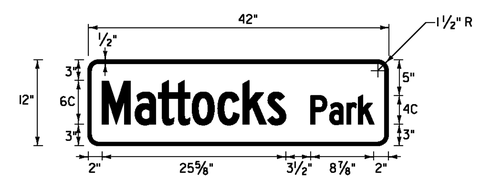


D3–1

LOCATION: LYNDON U.S. ROUTE 5
STA. 59+78, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM



D3–1

LOCATION: LYNDON U.S. ROUTE 5
STA. 60+77, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

NOTE: SEE TRAFFIC SIGN NOTES ON SHEET 126.

NOT TO SCALE

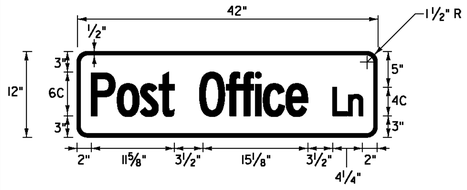
Stantec

TRAFFIC SIGN DETAIL SHEET #1

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tsd01.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 122 OF 133

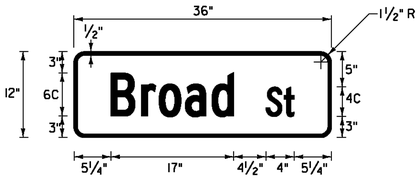


D3-1

LOCATION: LYNDON U.S. ROUTE 5
STA. 62+55, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

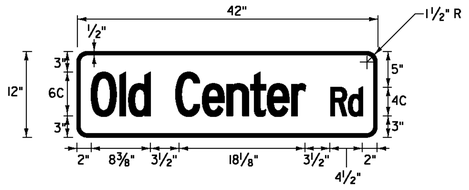


D3-1

LOCATION: LYNDON U.S. ROUTE 5
STA. 102+55, RT
STA. 106+14, RT
STA. 111+85, RT
STA. 124+30, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

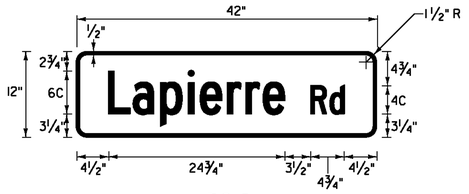


D3-1

LOCATION: ST. JOHNSBURY STATE HIGHWAY
STA. 12+37, LT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

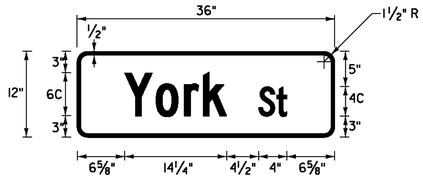


D3-1

LOCATION: ST. JOHNSBURY STATE HIGHWAY
STA. 45+46, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

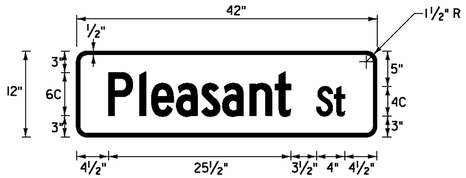


D3-1

LOCATION: LYNDON U.S. ROUTE 5
STA. 63+85, LT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

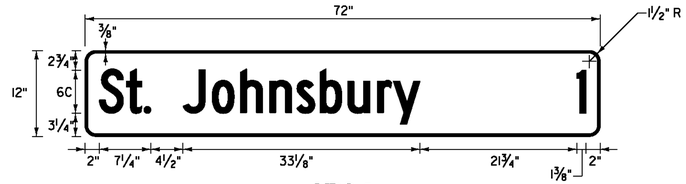


D3-1

LOCATION: LYNDON U.S. ROUTE 5
STA. 106+14, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

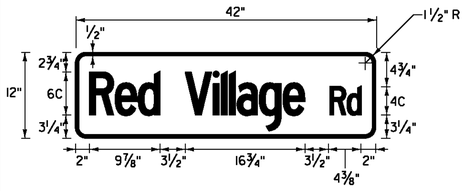


VD2-1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 196+00, LT
STA. 199+86, LT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

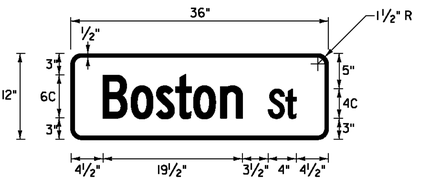


D3-1

LOCATION: LYNDON U.S. ROUTE 5
STA. 95+62, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

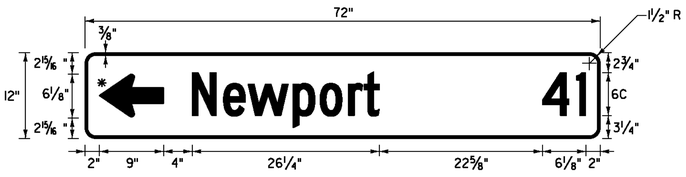


D3-1

LOCATION: LYNDON U.S. ROUTE 5
STA. 111+85, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM



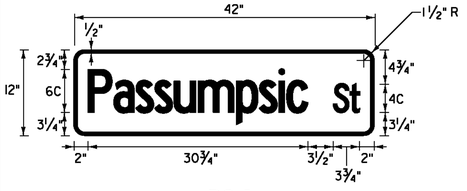
VD1-1a

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 195+43, RT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

* FOR ARROW DETAIL SEE SHEET 124

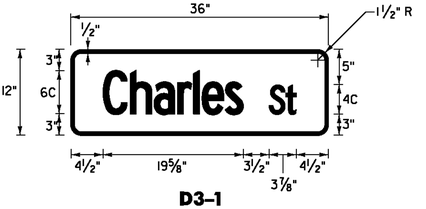


D3-1

LOCATION: LYNDON U.S. ROUTE 5
STA. 102+55, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

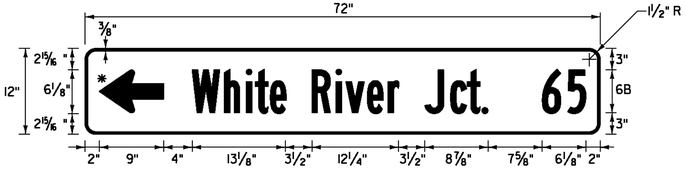


D3-1

LOCATION: LYNDON U.S. ROUTE 5
STA. 124+30, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM



VD1-1a

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 195+43, RT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

* FOR ARROW DETAIL SEE SHEET 124

NOT TO SCALE

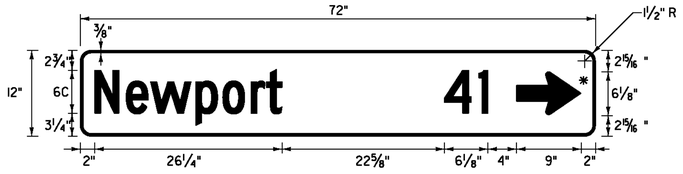
NOTE: SEE TRAFFIC SIGN NOTES ON SHEET 126.

Stantec

TRAFFIC SIGN DETAIL SHEET #2

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tsd02.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 123 OF 133



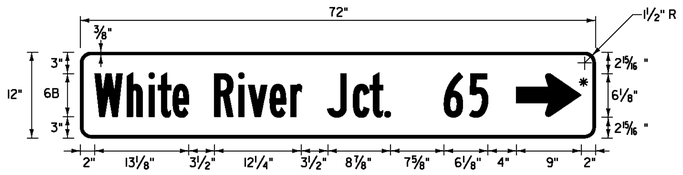
VD1-1a

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 199+86, LT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

* FOR ARROW DETAIL SEE THIS SHEET



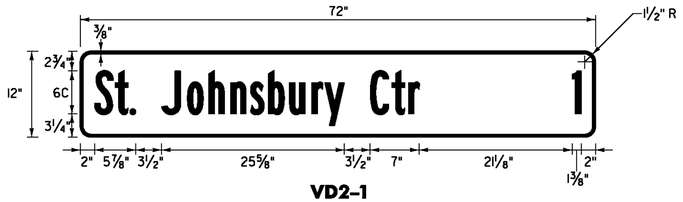
VD1-1a

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 199+86, LT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

* FOR ARROW DETAIL SEE THIS SHEET

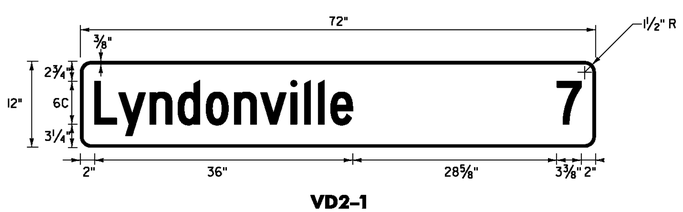


VD2-1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 195+43, RT
STA. 201+94, RT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

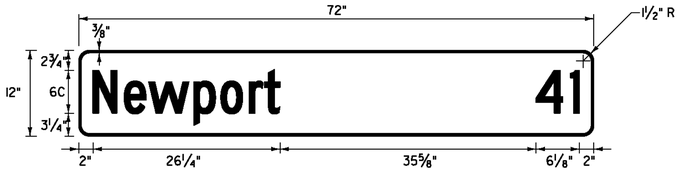


VD2-1

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 195+43, RT
STA. 201+94, RT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

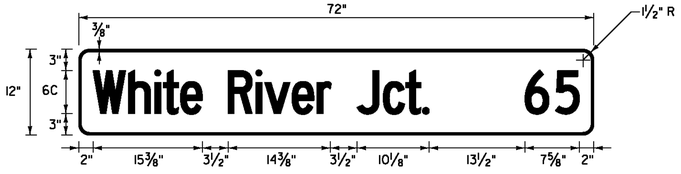


VD2-1

LOCATION: ST. JOHNSBURY STATE HIGHWAY
STA. 1+63, RT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

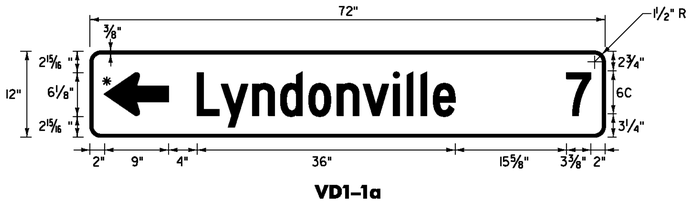


VD2-1

LOCATION: ST. JOHNSBURY STATE HIGHWAY
STA. 1+63, RT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM



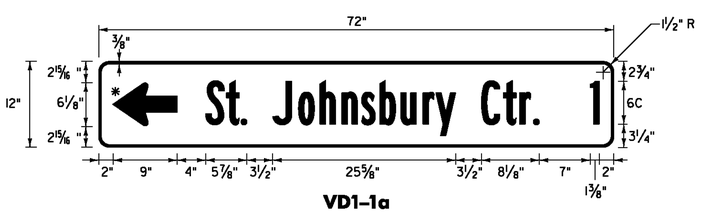
VD1-1a

LOCATION: ST. JOHNSBURY STATE HIGHWAY
STA. 2+67, LT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

* FOR ARROW DETAIL SEE THIS SHEET



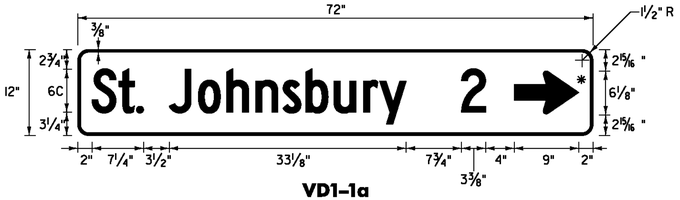
VD1-1a

LOCATION: ST. JOHNSBURY STATE HIGHWAY
STA. 2+67, LT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

* FOR ARROW DETAIL SEE THIS SHEET



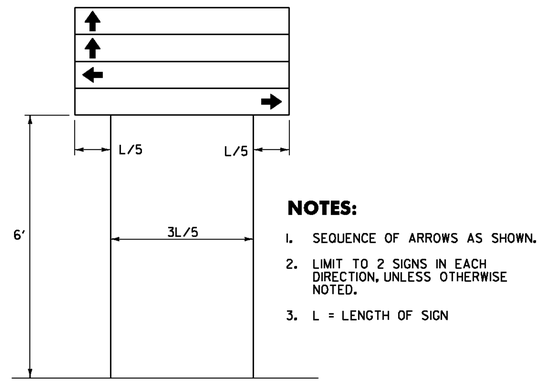
VD1-1a

LOCATION: ST. JOHNSBURY STATE HIGHWAY
STA. 2+67, LT

COLOR: WHITE BORDER, ARROW AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: 0.125" FLAT SHEET ALUMINUM

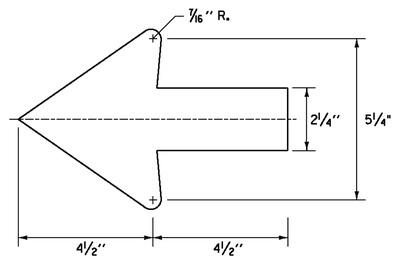
* FOR ARROW DETAIL SEE THIS SHEET



NOTES:

1. SEQUENCE OF ARROWS AS SHOWN.
2. LIMIT TO 2 SIGNS IN EACH DIRECTION, UNLESS OTHERWISE NOTED.
3. L = LENGTH OF SIGN

DESTINATION ASSEMBLY



STANDARD SHSM 2.25" ARROW

NOT TO SCALE

NOTE: SEE TRAFFIC SIGN NOTES ON SHEET 126.

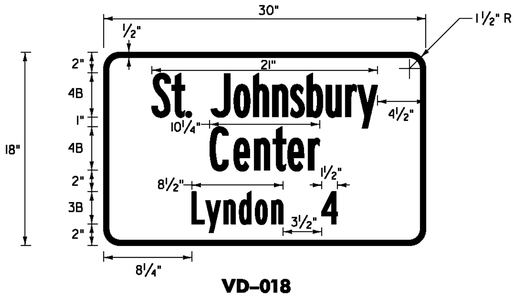
Stantec

TRAFFIC SIGN DETAIL SHEET #3

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tsd03.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 124 OF 133

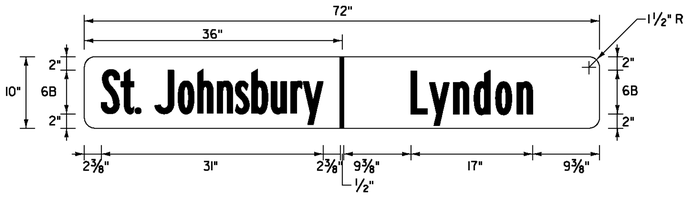


VD-018

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 214+64, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: PER THE TABLE ON SHEET 126

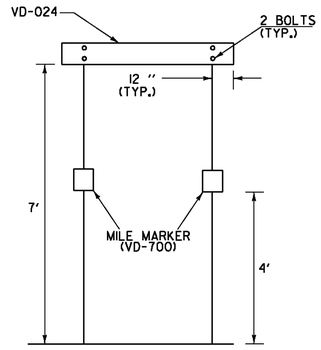


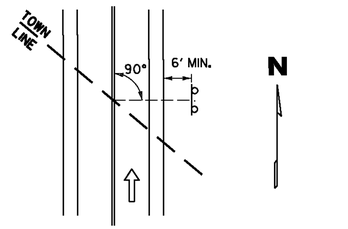
VD-024

LOCATION: LYNDON U.S. ROUTE 5
STA. 0+00, LT

COLOR: WHITE DIVIDER & TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

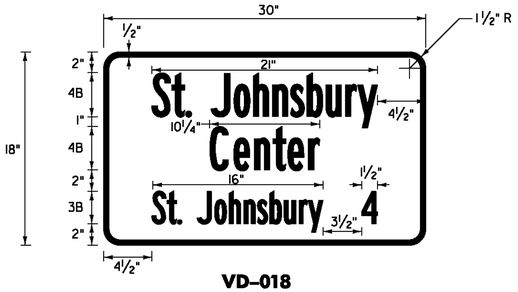
COLOR: SEE TOWN LINE SIGN NOTES ON THIS SHEET





℄ THE SIGN SHALL BE MOUNTED PARALLEL WITH THE ROADWAY, NORMALLY ON RIGHT SIDE TRAVELING WEST TO EAST OR SOUTH TO NORTH.

WHEN CROSSING COUNTY BOUNDARIES AN ADDITIONAL COUNTY LINE SIGN (VD-025) SHALL BE MOUNTED BELOW THE TOWN LINE SIGN (VD-024) MAINTAINING A SEVEN FOOT CLEARANCE.

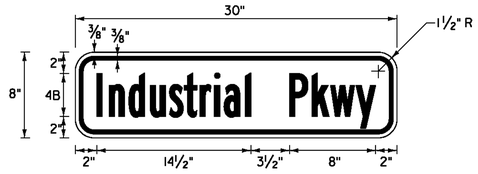


VD-018

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 273+92, LT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: PER THE TABLE ON SHEET 126

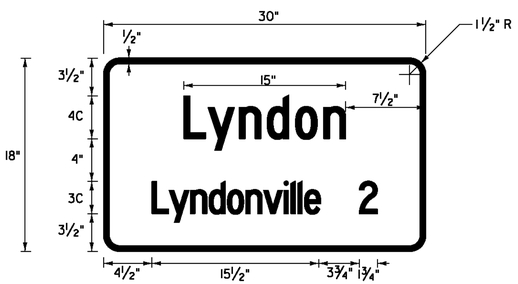


W16-8P

LOCATION: ST. JOHNSBURY U.S. ROUTE 5
STA. 390+49, RT

COLOR: BLACK BORDER AND TEXT (RETROREFLECTIVE)
YELLOW BACKGROUND (RETROREFLECTIVE)

MATERIAL: PER THE TABLE ON SHEET 126



VD-018

LOCATION: LYNDON U.S. ROUTE 5
STA. 38+13, RT

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE)
GREEN BACKGROUND (RETROREFLECTIVE)

MATERIAL: PER THE TABLE ON SHEET 126

LOCATION: LYNDON U.S. ROUTE 5
STA. 62+31, RT

COLOR: RED BORDER AND TEXT (RETROREFLECTIVE)
WHITE BACKGROUND (RETROREFLECTIVE)

MATERIAL: PER THE TABLE ON SHEET 126

LOCATION: LYNDON U.S. ROUTE 5
STA. 63+23, LT

COLOR: RED BORDER AND TEXT (RETROREFLECTIVE)
WHITE BACKGROUND (RETROREFLECTIVE)

MATERIAL: PER THE TABLE ON SHEET 126

TOWN LINE SIGN NOTES:

1. WORD TO WORD SPACING FOR MULTIPLE TEXT TOWN NAMES IS ADJUSTABLE TO ACCOMMODATE DIMENSION REQUIREMENTS.
2. DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE VARIOUS MANUFACTURER'S LETTER WIDTHS.
3. ALL DIMENSIONS ARE IN INCHES EXCEPT WHERE NOTED.
4. THE SIGN BASE MATERIAL SHALL BE FLAT SHEET ALUMINUM 0.125" MINIMUM THICKNESS. THE RETROREFLECTIVE MATERIAL SHALL BE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE LEGEND SHALL BE CUT-OUT RETROREFLECTIVE LEGEND. ALL RETROREFLECTIVE MATERIAL SHALL BE EQUAL TO OR EXCEEDING THE "THE AMERICAN SOCIETY OF TESTING AND MATERIALS" (ASTM D 4956).
5. SIGNS SHALL HAVE A RETROREFLECTIVE WHITE LEGEND ON A RETROREFLECTIVE GREEN BACKGROUND.
6. LEGEND SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS APPROVED BY THE NATIONAL JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES.

NOT TO SCALE

NOTE: SEE TRAFFIC SIGN NOTES ON SHEET 126.

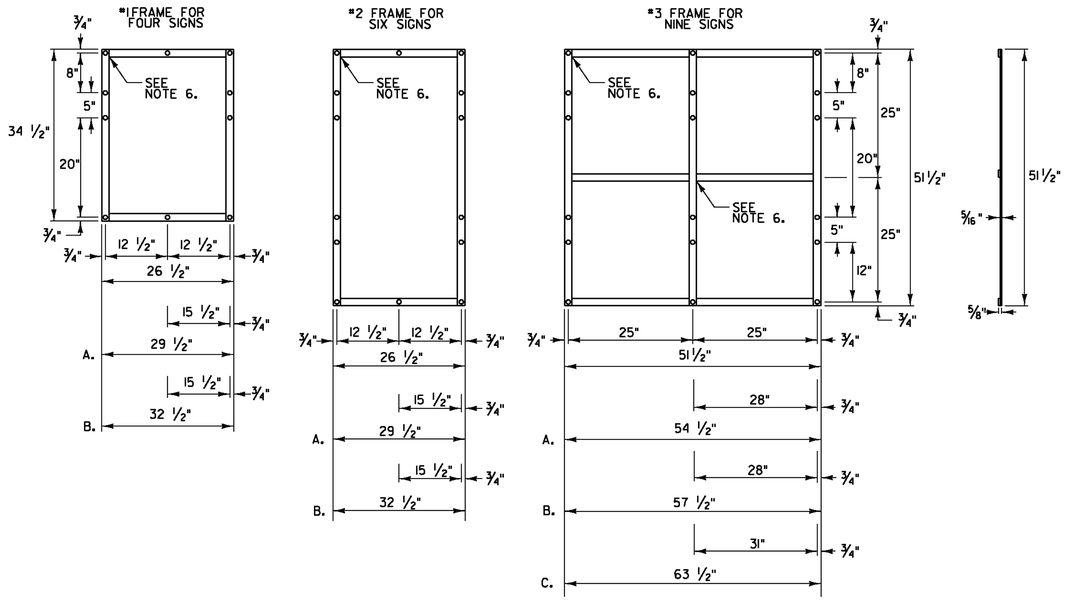
Stantec

TRAFFIC SIGN DETAIL SHEET #4

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tsd04.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 125 OF 133

ROUTE MARKER ASSEMBLY FRAMES



ASSEMBLY FRAME NOTES:

1. NOTES FOR *1 AND *2 FRAME:
   - A. WITH ONE 30 INCH THREE DIGIT SIGN
   - B. WITH TWO 30 INCH THREE DIGIT SIGNS
2. NOTES FOR *3 FRAME:
   - A. WITH ONE 30 INCH THREE DIGIT SIGN IN AN OUTSIDE POSITION.
   - B. WITH ONE 30 INCH THREE DIGIT SIGN IN THE CENTER POSITION OR TWO SUCH SIGNS IN THE OUTSIDE POSITIONS.
   - C. WITH THREE 30 INCH THREE DIGIT SIGNS.
3. ALL HOLES SHALL BE 7/16" DIAMETER. FOR OTHER SIGN COMBINATIONS THAN ABOVE, THE FRAME DIMENSIONS AND HOLE SPACING SHALL BE MODIFIED AS NECESSARY. THE FRAME SHALL BE PAINTED WITH ONE COAT OF PRIMER AND A SECOND COAT OF BLACK PAINT. THE PAINT SHALL BE OF THE TYPE USED ON EXTERIOR METAL SURFACES TO PREVENT METAL CORROSION.
4. ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED.
5. FRAMES SHALL BE CONSTRUCTED OF 5/16" x 1 1/2" A-36 STEEL.
6. ALL OVERLAPPED CONNECTIONS SHALL BE WELDED WITH TWO 1/4" WIDE FILLET WELDS, 1 1/2" LONG.

LOCATION: ST. JOHNSBURY: U.S. ROUTE 5
STA. 235+91, RT
STA. 239+07, RT

COLOR: RED BORDER AND TEXT
WHITE BACKGROUND (RETROREFLECTIVE)

MATERIAL: PER THE TABLE BELOW

TRAFFIC SIGN NOTES

1. ALL SIGN LETTERING, DIGITS, ARROWS, AND DESIGN OF SYMBOLS FOR SIGNS REFERENCED IN THESE PLANS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) UNLESS OTHERWISE DETAILED WITHIN THESE PLANS.
2. ALL COLORS SHALL CONFORM WITH THE STANDARD COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) AND APPROVED BY FHWA UNLESS OTHERWISE NOTED.
3. ALL SHEETING SHALL BE TYPE III MINIMUM PER SUBSECTION 750.08 RETROREFLECTIVE SHEETING (ASTM D 4956).
4. ALL STREET NAME SIGNS ARE TWO-SIDED UNLESS NOTED OTHERWISE.
5. WHEN INSTALLING STREET NAME SIGNS (D3-1) USE 12" BRACKETS.
6. UNLESS OTHERWISE DETAILED ON THE PLANS, ALL SIGN BASE MATERIALS SHALL BE FLAT SHEET ALUMINUM WITH THE FOLLOWING MINIMUM THICKNESSES:

SIZES			36" X 12"	
		24" X 10"	36" X 15"	36" X 12"
		24" X 12"	42" X 12"	42" X 12"
		30" X 12"	48" X 12"	48" X 12"
		24" X 18"	36" X 18"	48" X 18"
		24" X 24"	54" X 12"	48" X 24"
	18" X 12"	24" X 30"	36" X 24"	48" X 30"
	9" X 12"	30" X 15"	30" X 42"	48" X 42"
	12" X 12"	30" X 18"	36" X 36"	48" X 48"
	18" X 18"	30" X 30"	36" X 48"	48" X 60"
	21" X 15"	30" X 42"	36" X 54"	60" X 12"
THICKNESS	0.080"	0.080"	0.100"	0.125"

NOT TO SCALE

Stantec

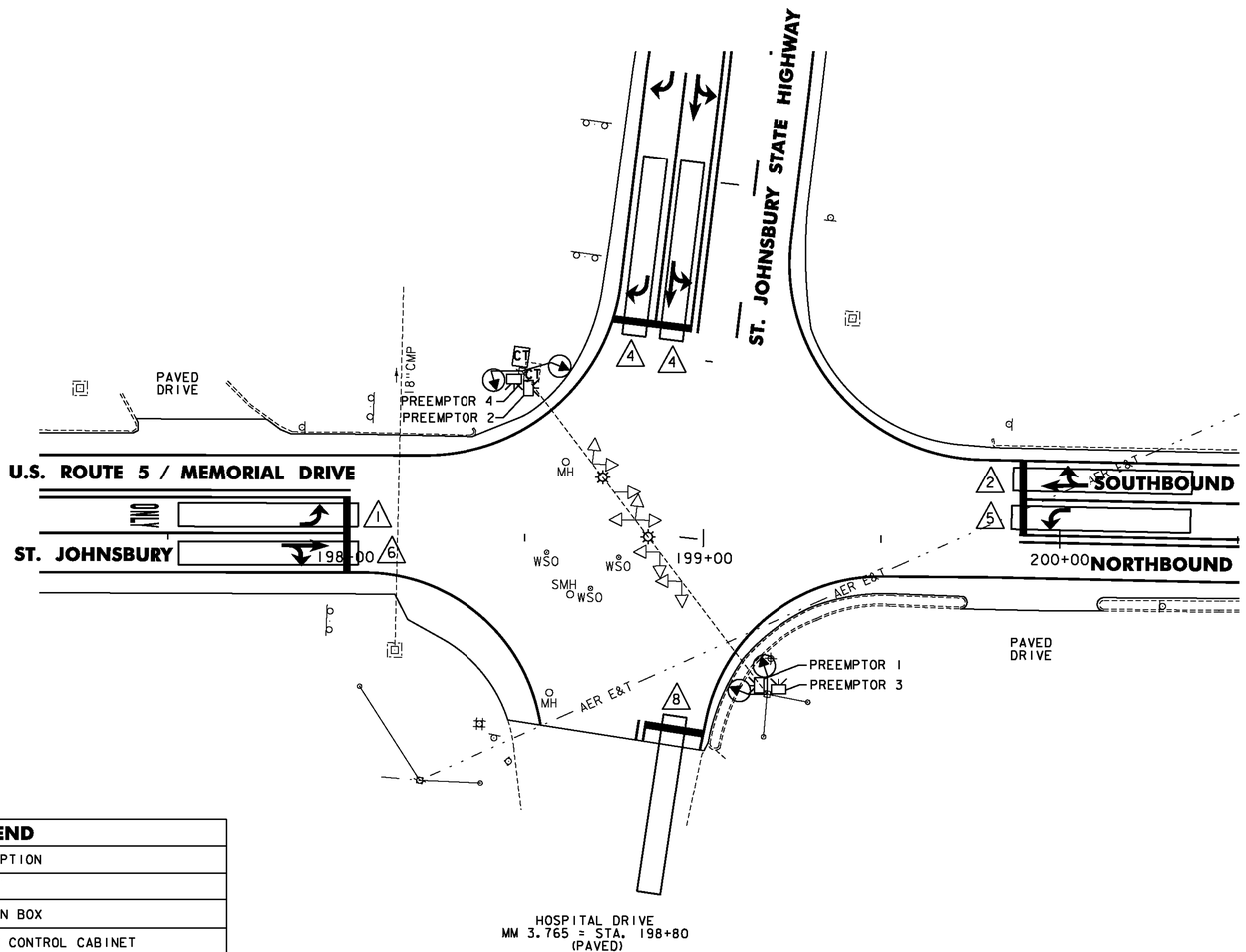
TRAFFIC SIGN DETAIL SHEET #5

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tsd05.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 126 OF 133

U.S. ROUTE 5 / ST. JOHNSBURY STATE HIGHWAY INTERSECTION



ITEM 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (US 5 @ ST JAY ST HWY) ST. JOHNSBURY U.S. ROUTE 5 STA. 198+80		
QUANTITY	UNIT	DESCRIPTION
4	EA	VIDEO DETECTION CAMERA ASSEMBLY
340	LF	VIDEO DETECTION CABLE
4	EA	VIDEO DETECTION CAMERA MOUNTING BRACKET
1	EA	CABINET RACK
1	EA	ADJUST HEIGHT OF CABINET RACK (AS NECESSARY)
4	EA	OPTICAL PREEMPTION DETECTOR
1	EA	OPTICAL SIGNAL PROCESSOR CARD AND CARD CAGE
2	EA	AC STROBE-RED
120	LF	SPAN WIRE

ITEM 900.620 SPECIAL PROVISION (REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER AND CABINET).		
QUANTITY	UNIT	DESCRIPTION
1	EA	NAZTEC MODEL 980 OR ECONOLITE ACS/3-2100 TRAFFIC SIGNAL CONTROLLER
1	EA	NAZTEC OR ECONOLITE POLE MOUNTED CONTROLLER CABINET

LEGEND	
DESCRIPTION	
----	EXISTING CONDUIT
□	EXISTING JUNCTION BOX
CT	EXISTING TRAFFIC CONTROL CABINET
CT	PROPOSED TRAFFIC CONTROL CABINET
	EXISTING POLE
	EXISTING VIDEO DETECTION AREA
	VIDEO DETECTION AREA
	EXISTING VIDEO DETECTION CAMERA
	PROPOSED VIDEO DETECTION CAMERA
	EXISTING VEHICLE SIGNAL
	PROPOSED VEHICLE SIGNAL
PB	EXISTING PULL BOX
	EXISTING PEDESTRIAN SIGNAL
	PROPOSED COUNT-DOWN PEDESTRIAN SIGNAL
	PREMPTION STROBE
	OPTICAL PREEMPTION DETECTOR

PREEMPTION TIMINGS				
	PREEMPTOR			
	1	2	3	4
DIRECTION	US 5 NB	US 5 SB	ST. JOHNSBURY S.H.	HOSPITAL DR.
HOLD PHASE	2	6	8	4
DET. LOCK	NO	NO	NO	NO
DURATION TIME	10	10	10	10
MIN. GREEN	4.0	4.0	4.0	4.0
HOLD GREEN	12.0	12.0	12.0	12.0
HOLD YELLOW	4.0	4.0	4.0	4.0
HOLD RED	2.0	2.0	2.0	2.0
RELEASE PHASE	2&6	2&6	8&4	8&4

NOT TO SCALE

SEE SHEET 128 FOR TRAFFIC SIGNAL NOTES

Stantec

TRAFFIC SIGNAL SYSTEMS SHEET #1

PROJECT NAME: ST. JOHNSBURY-LYNDON

PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss01.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 127 OF 133

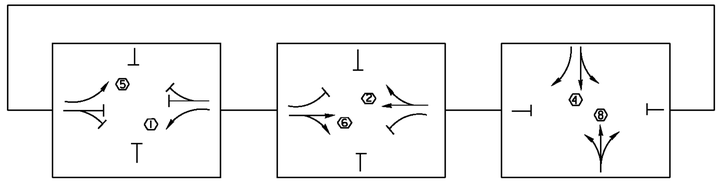
CONTROLLER TIMING CHART

US ROUTE 5 & ST. JOHNSBURY STATE HIGHWAY						
	5NLT	5STH	SJSH	5SLT	5NTH	HPDR
PHASE	1	2	4	5	6	8
TRAFFIC MOVEMENT	↖	↓	->	↘	↑	<-
MINIMUM GREEN	5	8	8	5	8	8
MAXIMUM 1 GREEN	8	27	17	8	27	17
MAXIMUM 2 GREEN	8	30	14	8	30	14
MAXIMUM 3 GREEN	9	30	14	9	30	14
YELLOW CLEARANCE	4	4	4	4	4	4
ALL RED CLEARANCE	2	2	2	2	2	2
VEH. EXTENSION	1	2	2	1.5	2	2

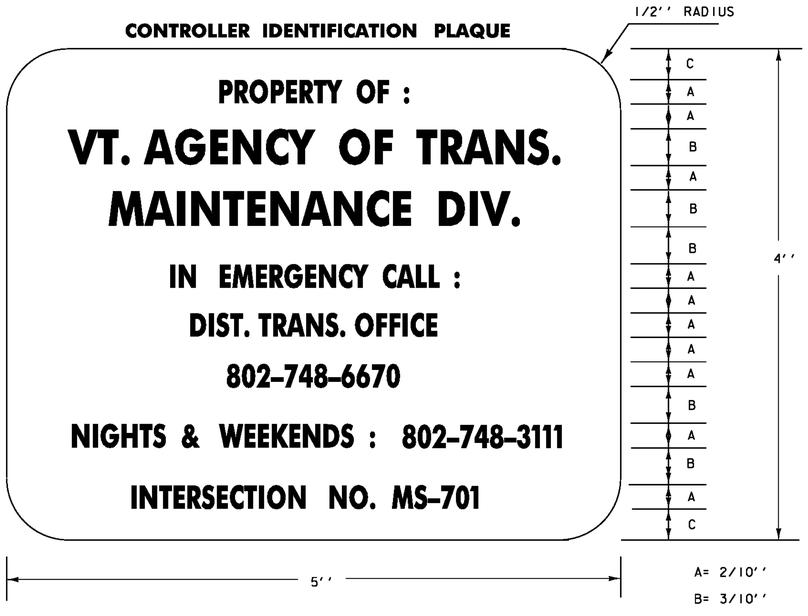
TIME OF DAY PLANS

DAY PLAN	STEP BEGINS	ACTION PLAN	PATTERN	MAX TIME
1	0000	5	255	FLASH
1	0600	1	254	MAX 1
1	1000	2	254	MAX 2
1	1500	3	254	MAX 3
1	1900	1	254	MAX 1
1	2100	5	255	FLASH

PHASING DIAGRAM



CONTROLLER IDENTIFICATION PLAQUE



LEGEND: - BLACK (NON-REFL.) - STAMPED PRIOR TO PAINTING

BACKGROUND: NATURAL ALUMINUM OR BRASS SURFACE

NOTES:

1.) THE PLAQUE SHALL BE MOUNTED ON ALL TRAFFIC SIGNAL CONTROLLER CABINETS. IT SHALL BE FASTENED TO THE CONTROLLER CABINET IN SUCH A MANNER AS TO BE NOT EASILY REMOVED, SUCH AS WELDED, RIVETED OR BOLTED WITH VANDAL PROOF BOLTS.

2.) THE LETTERS SHALL BE PUNCHED OR STAMPED, SUCH STAMPING SHALL PENETRATE AT LEAST 1#2 THE BASE MATERIAL THICKNESS.

3.) THE BASE MATERIAL FOR THE PLAQUE SHALL BE BRASS OR ALUMINUM WITH A MINIMUM THICKNESS OF 0.100 INCHES.

TRAFFIC SIGNAL NOTES

1. SHEET 127 IS NOT TO SCALE AND SHALL ONLY BE USED AS A GUIDE FOR THE PLACEMENT OF HARDWARE LISTED. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE ENGINEER PRIOR TO INSTALLATION. LOCATIONS MAY BE REVISED AS A RESULT OF THE SITE SURVEY.
2. VIDEO VEHICLE DETECTION CAMERAS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
3. VIDEO VEHICLE DETECTION AREAS SHALL EXTEND 5 FEET PAST THE STOP BAR.
4. THE CONTRACTOR SHALL VERIFY IN THE FIELD THAT THERE IS ADEQUATE SPACE IN THE CONDUIT FOR VIDEO DETECTION CABLE. IF ADDITIONAL CONDUIT INSTALLATION IS REQUIRED, ALL WORK ASSOCIATED FOR INSTALLATION SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ ST. JOHNSBURY STATE HIGHWAY). MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH SECTION 678 OF THE 2011 EDITION OF THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
5. EXISTING VEHICLE DETECTOR LOOPS TO BE CUT AT THE CURB LINE PRIOR TO COLD PLANING, DISCONNECTED AT THE EXISTING PULLBOX LOCATIONS, AND WIRING REMOVED BACK TO THE CABINET. PAYMENT SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ ST. JOHNSBURY STATE HIGHWAY).
6. ANY OTHER MISCELLANEOUS EQUIPMENT AND LABOR NECESSARY TO PROVIDE A FULLY FUNCTIONAL VIDEO VEHICLE DETECTION SYSTEM SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ ST. JOHNSBURY STATE HIGHWAY).
7. VIDEO VEHICLE DETECTION SYSTEM SHALL BE ONE OF THE MANUFACTURERS LISTED IN THE SPECIAL PROVISIONS.
8. EXISTING CONDUIT SHALL BE UTILIZED FOR NECESSARY WIRING.
9. EXISTING SPAN WIRE IS TO BE REPLACED WITH NEW.
10. THE EMERGENCY VEHICLE PREEMPTION SYSTEM SHALL BE AN OPTICALLY ACTIVATED SYSTEM. THE SYSTEM WILL INCLUDE ALL NECESSARY INTERFACE BOARDS, WIRING, DECTECTORS, AND CONFIRMATION LIGHTS. EMITTERS AND OTHER VEHICLE MOUNTED EQUIPMENT TO BE PURCHASED SEPERATELY BY OTHERS.
11. EXISTING CONTROLLER SHALL BE REMOVED AND RETURNED BY THE CONTRACTOR TO THE DISTRICT 7 GARAGE AT 1098 U.S. ROUTE 5 IN ST. JOHNSBURY WITHIN 48 HOURS OF REMOVAL. CONTACT RUSS VELANDER AT 802-828-3535 WITH ANY QUESTIONS.
12. PRIOR TO COLD PLANING, THE CONTRACTOR SHALL DISCONNECT THE VEHICLE DETECTOR LOOP IN THE CONTROLLER CABINET AND CUT IT AT THE CURB OR SHOULDER. ONCE THE VEHICLE DETECTOR LOOP IS DISCONNECTED, THE SIGNAL PHASE THAT IT WAS CALLING SHALL BE SET ON MAXIMUM RECALL OR THE SIGNAL SHALL BE SET TO FLASH WHILE TRAFFIC IS BEING CONTROLLED BY A UNIFORMED TRAFFIC OFFICER. DETECTOR AND SIGNAL WORK SHALL BE INCIDENTAL TO PAY ITEM 900.620 SPECIAL PROVISION (VEHICLE PREEMPTION / VIDEO VEHICLE DETECTION SYSTEM). UNIFORMED TRAFFIC OFFICERS WILL BE PAID FOR UNDER CONTRACT ITEM 630.10 UNIFORMED TRAFFIC OFFICERS.
13. THE TRAFFIC SIGNAL CONTROLLER AND RELATED EQUIPMENT SHALL BE MANUFACTURED BY ECONOLITE CONTROL PRODUCTS, INC. OR NAZTEC, INC. THE NEW CABINET SHALL BE A POLE MOUNT "M" CABINET, AND ALL PLUG IN PARTS BENCH TESTED FOR STANDARD EIGHT PHASE QUAD OPERATION. THE CABINET SHALL BE INSTALLED AT THE LOCATION SHOWN.
14. ALL EXISTING WIRING FROM CONTROLLER CABINET TO SIGNAL HEADS SHALL BE REPLACED WITH NEW. ALL WIRING FROM CONTROLLER CABINET TO TRAFFIC SIGNALS SHALL BE A MINIMUM OF NUMBER 12 GAUGE. IN THE INSTANCE THAT SMALLER GAUGE IS INSTALLED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT AT THEIR EXPENSE.
15. SWITCH-OVER TO NEW SIGNAL SYSTEM SHALL NOT OCCUR DURING PEAK TRAFFIC OPERATING PERIODS. UNIFORMED TRAFFIC OFFICERS SHALL CONTROL TRAFFIC DURING SWITCH-OVER.
16. ALL SIGNALS SHALL DWELL ON U.S. ROUTE 5 UNLESS OTHERWISE NOTED.
17. A UNIFORMED TRAFFIC OFFICER WITH A BLUE LIGHT SHALL BE PRESENT DURING ALL LANE CLOSURES.
18. THE CONTRACTOR SHALL ACQUIRE ALL THE NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE TRAFFIC SIGNAL EQUIPMENT, IF APPLICABLE. THE ROUTING OF POWER TO THE INTERSECTION SHALL BE SUCH THAT THE STATE HAS FULL RESPONSIBILITY FROM THE TRANSFORMER THROUGH THE SIGNAL SYSTEM. NO INTERVENING OWNERSHIP/ RESPONSIBILITY SHALL BE ALLOWED.
19. ALL ELECTRICAL WIRING SHALL BE DONE BY A LICENSED ELECTRICIAN AND OVERSEEN BY A MASTER ELECTRICIAN.

NOT TO SCALE

Stantec

TRAFFIC SIGNAL SYSTEMS SHEET #2

PROJECT NAME: ST. JOHNSBURY-LYNDON

PROJECT NUMBER: STP 2928(I)

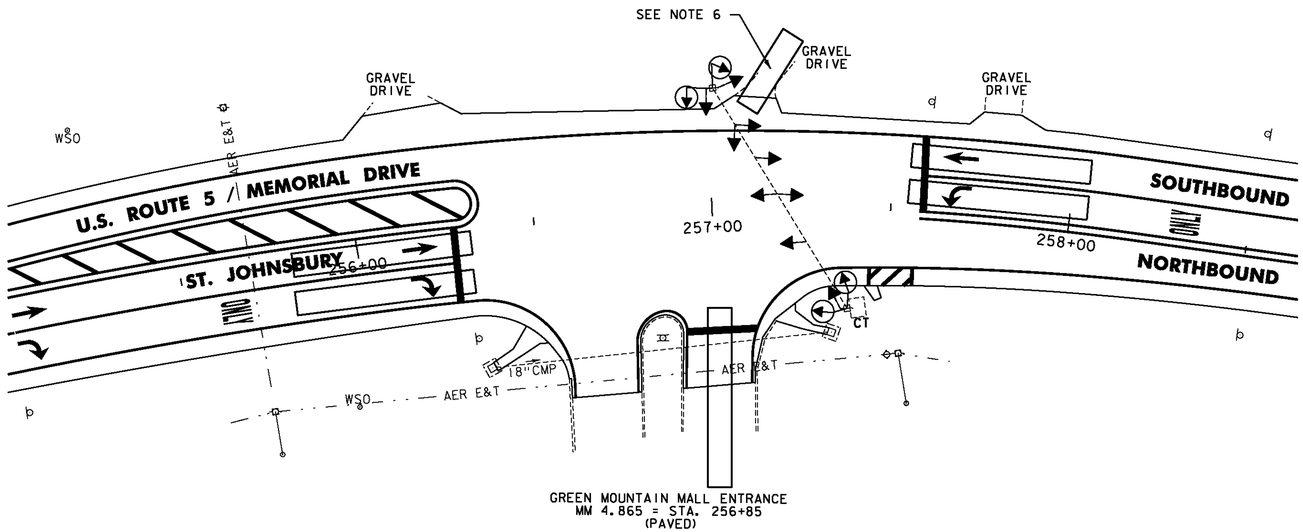
FILE NAME: p10c262.dgn | PLOT DATE: 06-DEC-2013

PROJECT LEADER: JLL | DRAWN BY: STANTEC

DESIGNED BY: MCF | CHECKED BY: JLL

IPARM FILE: p10c262tss02.i | SHEET 128 OF 133

U.S. ROUTE 5 /GREEN MOUNTAIN MALL INTERSECTION



ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ GREEN MOUNTAIN MALL) ST. JOHNSBURY U.S. ROUTE 5 STA. 256+85		
QUANTITY	UNIT	DESCRIPTION
4	EA	VIDEO DETECTION CAMERA ASSEMBLY
250	LF	VIDEO DETECTION CABLE
4	EA	VIDEO DETECTION CAMERA MOUNTING BRACKET
1	EA	CABINET RACK
1	EA	ADJUST HEIGHT OF CABINET RACK (AS NECESSARY)

ITEM 900.645 SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED) (U.S. ROUTE 5 @ GREEN MOUNTAIN MALL) ST. JOHNSBURY U.S. ROUTE 5 STA. 256+85		
QUANTITY	UNIT	DESCRIPTION
5	EA	VEHICLE SIGNAL HEADS (3 SECTION)
3	EA	VEHICLE SIGNAL HEADS (3 SECTION POLE MOUNTED)
1	EA	VEHICLE SIGNAL HEADS (5 SECTION)

LEGEND	
DESCRIPTION	
----	EXISTING CONDUIT
□	EXISTING JUNCTION BOX
CT	EXISTING CONTROLLER CABINET
	EXISTING POLE
	EXISTING VIDEO DETECTION AREA
	VIDEO DETECTION AREA
	EXISTING VIDEO DETECTION CAMERA
	PROPOSED VIDEO DETECTION CAMERA
	EXISTING VEHICLE SIGNAL
	PROPOSED VEHICLE SIGNAL
PB	EXISTING PULL BOX
	EXISTING PEDESTRIAN SIGNAL
	PROPOSED COUNT-DOWN PEDESTRIAN SIGNAL

NOTES:

1. THIS PLAN SHEET IS NOT TO SCALE AND SHALL ONLY BE USED AS A GUIDE FOR THE PLACEMENT OF HARDWARE LISTED. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE ENGINEER PRIOR TO INSTALLATION. LOCATIONS MAY BE REVISED AS A RESULT OF THE SITE SURVEY.
2. VIDEO VEHICLE DETECTION CAMERAS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
3. VIDEO DETECTION AREAS SHALL EXTEND 5 FEET PAST THE STOP BAR.
4. THE CONTRACTOR SHALL VERIFY IN THE FIELD THAT THERE IS ADEQUATE SPACE IN THE CONDUIT FOR VIDEO DETECTION CABLE AND EQUIPMENT. IF ADDITIONAL CONDUIT INSTALLATION IS REQUIRED, ALL WORK ASSOCIATED FOR INSTALLATION SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ GREEN MOUNTAIN MALL). MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH SECTION 678.
5. EXISTING VEHICLE DETECTOR LOOPS TO BE CUT AT THE CURB LINE PRIOR TO COLD PLANING. PAYMENT SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ GREEN MOUNTAIN MALL).
6. THIS DRIVE CURRENTLY HAS A MICROWAVE DETECTOR. THIS DETECTOR AND ASSOCIATED HARDWARE ARE TO BE REMOVED AND RETURNED TO THE VAOT TRAFFIC SHOP. THE ENGINEER IS TO CONTACT RUSS VELANDER AT 802-828-3535 TO COORDINATE THE DELIVERY OF THIS EQUIPMENT. THIS WORK WILL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ GREEN MOUNTAIN MALL).

NOT TO SCALE

Stantec

TRAFFIC SIGNAL SYSTEMS SHEET #3

PROJECT NAME: ST. JOHNSBURY-LYNDON

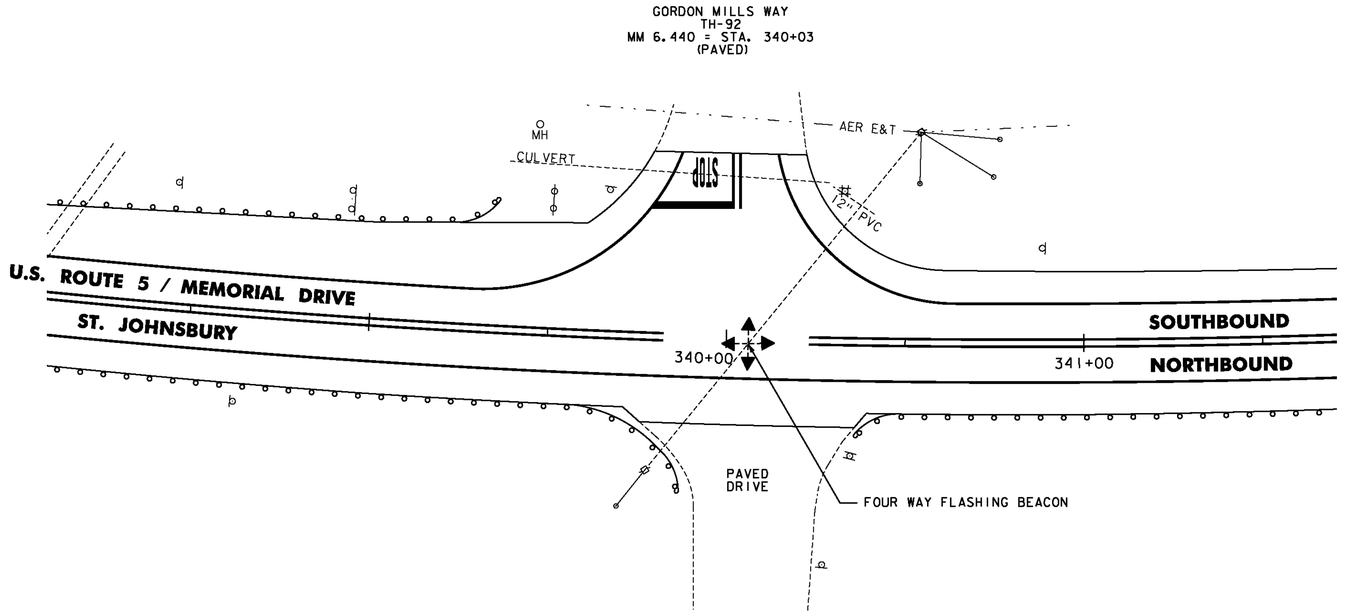
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss03.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 129 OF 133

U.S. ROUTE 5 /GORDON MILLS WAY INTERSECTION

ITEM 900.620 SPECIAL PROVISION (REMOVE AND REPLACE FLASHING BEACON, AERIAL MOUNTED) ST. JOHNSBURY U.S. ROUTE 5 STA. 340+03		
QUANTITY	UNIT	DESCRIPTION
1	EA	FOUR WAY FLASHING BEACON, WIRING AND MOUNTING HARDWARE



LEGEND	
DESCRIPTION	
----	EXISTING CONDUIT
□	EXISTING JUNCTION BOX
CT	EXISTING CONTROLLER CABINET
⊙	EXISTING POLE
	EXISTING VIDEO DETECTION AREA
	VIDEO DETECTION AREA
	EXISTING VIDEO DETECTION CAMERA
	PROPOSED VIDEO DETECTION CAMERA
	EXISTING VEHICLE SIGNAL
	PROPOSED VEHICLE SIGNAL
PB	EXISTING PULL BOX
	EXISTING PEDESTRIAN SIGNAL
	PROPOSED COUNT-DOWN PEDESTRIAN SIGNAL

NOT TO SCALE

Stantec

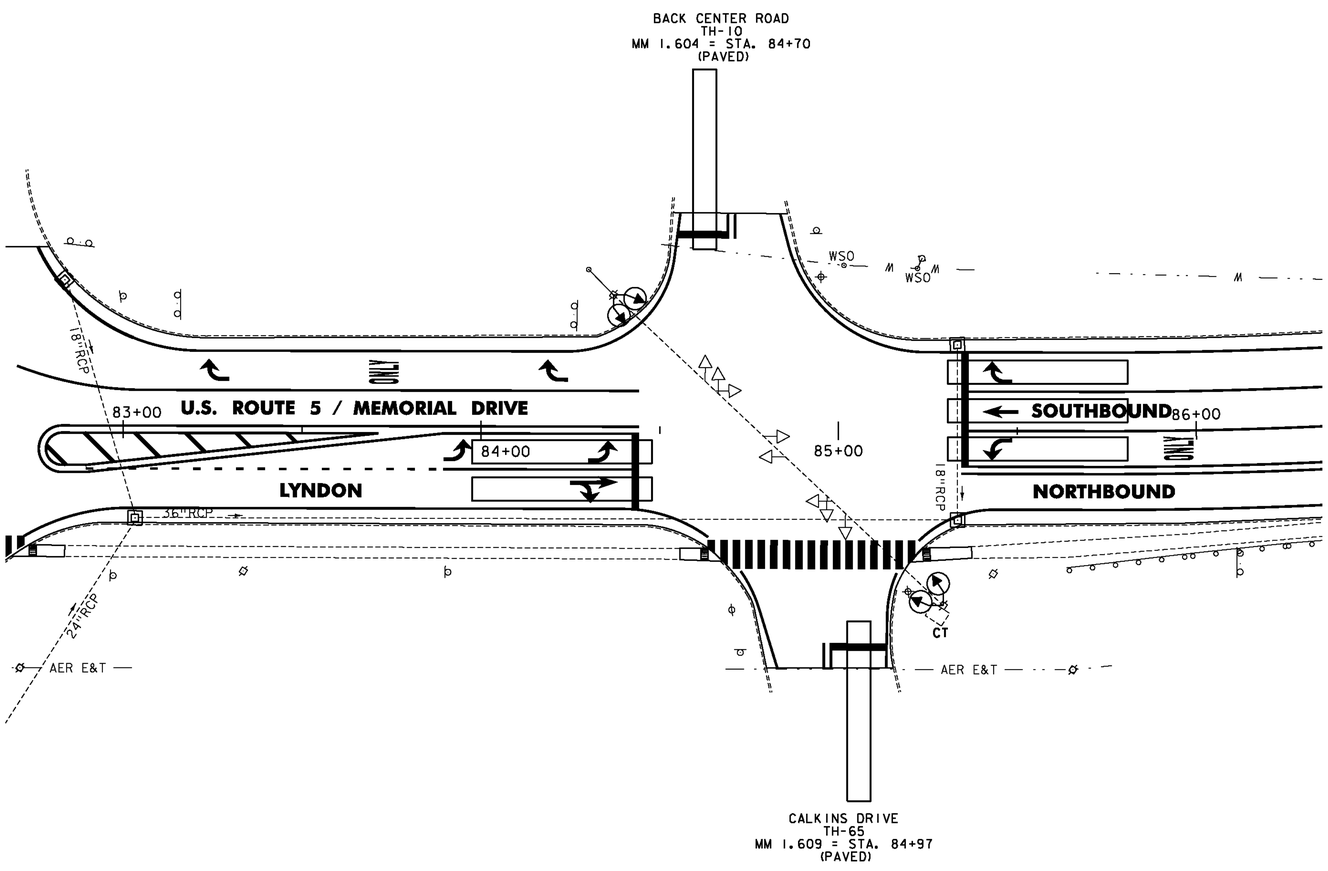
TRAFFIC SIGNAL SYSTEMS SHEET #4

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss04.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 130 OF 133

U.S. ROUTE 5 / BACK CENTER ROAD INTERSECTION



ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ BACK CENTER ROAD) LYNDON U.S. ROUTE 5 STA. 84+70		
QUANTITY	UNIT	DESCRIPTION
4	EA	VIDEO DETECTION CAMERA ASSEMBLY
360	LF	VIDEO DETECTION CABLE
4	EA	VIDEO DETECTION CAMERA MOUNTING BRACKET
1	EA	CABINET RACK
1	EA	ADJUST HEIGHT OF CABINET RACK (AS NECESSARY)

LEGEND	
DESCRIPTION	
----	EXISTING CONDUIT
□	EXISTING JUNCTION BOX
CT	EXISTING CONTROLLER CABINET
	EXISTING POLE
	EXISTING VIDEO DETECTION AREA
	VIDEO DETECTION AREA
	EXISTING VIDEO DETECTION CAMERA
	PROPOSED VIDEO DETECTION CAMERA
	EXISTING VEHICLE SIGNAL
	PROPOSED VEHICLE SIGNAL
PB	EXISTING PULL BOX
	EXISTING PEDESTRIAN SIGNAL
	PROPOSED COUNT-DOWN PEDESTRIAN SIGNAL

NOTES:

1. THIS PLAN SHEET IS NOT TO SCALE AND SHALL ONLY BE USED AS A GUIDE FOR VIDEO VEHICLE DETECTION PLACEMENT. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE ENGINEER PRIOR TO INSTALLATION. LOCATIONS MAY BE REVISED AS A RESULT OF THE SITE SURVEY.
2. VIDEO VEHICLE DETECTION CAMERAS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
3. VIDEO DETECTION AREAS SHALL EXTEND 5 FEET PAST THE STOP BAR.
4. THE CONTRACTOR SHALL VERIFY IN THE FIELD THAT THERE IS ADEQUATE SPACE IN THE CONDUIT FOR VIDEO DETECTION CABLE AND EQUIPMENT. IF ADDITIONAL CONDUIT INSTALLATION IS REQUIRED, ALL WORK ASSOCIATED FOR INSTALLATION SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ BACK CENTER ROAD). MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH SECTION 678.
5. EXISTING VEHICLE DETECTOR LOOPS TO BE CUT AT THE CURB LINE PRIOR TO COLD PLANING. PAYMENT SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (U.S. ROUTE 5 @ BACK CENTER ROAD).

NOT TO SCALE

Stantec

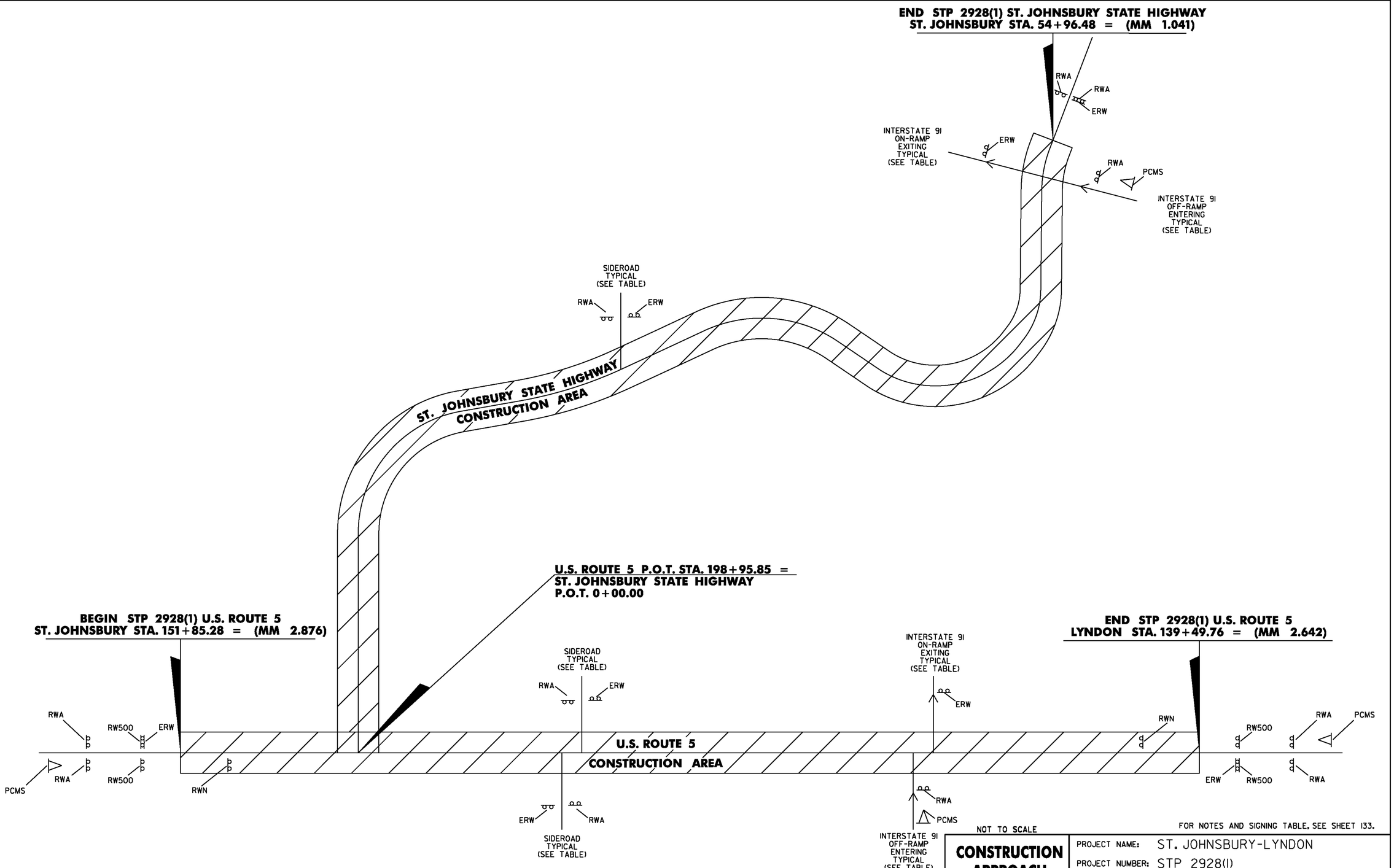
TRAFFIC SIGNAL SYSTEMS SHEET #5

PROJECT NAME: ST. JOHNSBURY-LYNDON

PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262tss05.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL



NOT TO SCALE

FOR NOTES AND SIGNING TABLE, SEE SHEET 133.

Stantec

CONSTRUCTION APPROACH SIGNING SHEET #1

PROJECT NAME: ST. JOHNSBURY-LYNDON

PROJECT NUMBER: STP 2928(I)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262cas01.i

PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 132 OF 133

SEE VAOT STANDARDS T-10 AND T-17 FOR SIGN PLACEMENT.

LOCATION	ERW	RW500	RWA	RWN	◁
ST. JOHNSBURY					
U.S. ROUTE 5 - BEGIN PROJECT	1	2	2	1	1
HOSPITAL DRIVE	1		1		
MOUNTAIN VIEW DRIVE (TH-98)	1		1		
STETSON TERRACE (TH-21)	1		1		
HILL STREET (TH-26)	1		1		
DEPOT HILL ROAD (TH-85)	1		1		
ROBERTS BROOK LANE (TH-34)	1		1		
BREEZY HILL ROAD (TH-6)	1		1		
SANGER CIRCLE (TH-50)	1		1		
MOUNT PISGAH ROAD (TH-86)	1		1		
PIERCE ROAD (TH-15)	1		1		
GORDON MILLS WAY (TH-92)	1		1		
INDUSTRIAL PARKWAY (TH-13)	1		1		
LYNDON					
GREAT FALLS ROAD (TH-67)	1		1		
INDUSTRIAL PARKWAY (TH-78)	1		1		
LEDGE ROAD (TH-124)	1		1		
MATTOCKS PARK (TH-125)	1		1		
POST OFFICE LANE (TH-126)	1		1		
YORK STREET (TH-57)	1		1		
SOUTH WHEELOCK ROAD (TH-1)	1		1		
191SB OFF RAMP B			1		1
191SB ON RAMP A	1				
191SB ON RAMP E	1				
191NB ON RAMP D	1				
191NB OFF RAMP C			1		1
BACK CENTER ROAD (TH-10)	1		1		
CALKINS DRIVE (TH-65)	1		1		
RED VILLAGE ROAD (TH-2)	1		1		
PASSUMPSIC STREET (TH-64)	1		1		
PLEASANT STREET (TH-62)	1		1		
BOSTON STREET (TH-63)	1		1		
TUTE HILL (TH-61)	1		1		
CHARLES STREET	1		1		
U.S. ROUTE 5 - END PROJECT	1	2	2	1	1
U.S. ROUTE 5 SUBTOTALS:	**32**	**4**	**33**	**2**	**4**
ST. JOHNSBURY STATE HIGHWAY					
ST. JOHNSBURY STATE HIGHWAY - BEGIN PROJECT			1		
OLD CENTER ROAD (TH-9)	1		1		
DEPOT HILL ROAD (TH-85)	1		1		
LAPIERRE ROAD (TH-32)	1		1		
191NB OFF RAMP A			1		1
191NB ON RAMP B	1				
191SB ON RAMP D	1				
191SB OFF RAMP C			1		1
ST. JOHNSBURY STATE HIGHWAY - END PROJECT	1		2		
ST. JOHNSBURY STATE HIGHWAY SUBTOTALS:	**6**		**8**		**2**
TOTALS	**38**	**4**	**41**	**2**	**6**

GENERAL NOTES:

1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES, WORK ZONE SPEED REDUCTIONS AND PEDESTRIAN ACCESS IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL POSITION PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) WARNING MOTORISTS OF THE EXPECTED ROADWAY CONDITIONS AHEAD. THE MESSAGE TO BE DISPLAYED, AND THEIR PROPOSED LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER IN ADVANCE FOR APPROVAL. THE PCMS SHOULD BE RELOCATED AS DETERMINED BY THE ENGINEER TO PROVIDE WORK ZONE TRAVEL INFORMATION THAT IS OTHERWISE DIFFICULT TO CONVEY WITH STATIC SIGNS. THE COST OF PROVIDING THESE MESSAGE SIGNS AND THEIR RELOCATION IF NECESSARY SHALL BE PAID UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.
3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, SHALL INCLUDE BUT IS NOT LIMITED TO ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN THE MUTCD AND VAOT STANDARDS. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED.
4. THE LATEST EDITION OF THE MUTCD SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.
5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS. EXISTING SIGNS WHICH CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED OR REMOVED.
6. SEE VAOT STANDARDS T-10 AND T-17 FOR ADDITIONAL SIGN PLACEMENT DETAILS.
7. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MUTCD, AND AS OUTLINED IN THE SPECIAL PROVISIONS.
8. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS AND SPECIAL PROVISIONS.
9. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
10. RETROREFLECTIVE SHEETING SHALL BE AS NOTED ON VAOT STANDARD T-1 AND IN SUBSECTION 750.08
11. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOMS OF THE SIGNS ARE ABOVE THE TOP OF GUARDRAIL.
12. AS THE CONSTRUCTION OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 500 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
13. BARRELS AND CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.
14. FOR LANE CLOSURES GREATER THAN 1/2 MILE LONG, PLACE ONE TYPE III BARRICADE ACROSS THE CLOSED LANE AT 1500 FOOT INTERVALS.
15. FOR TRAFFIC CONTROL GENERAL NOTES, SEE VAOT STANDARD T-1.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND TPAR HAVE BEEN PROVIDED.
7. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPAR'S AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. PAYMENT FOR DEVELOPING, IMPLEMENTING, AND MAINTAINING THE TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

LEGEND

ERW = END ROAD WORK
RW500 = ROAD WORK 500 FT
RWA = ROAD WORK AHEAD
RWN = ROAD WORK NEXT 8 1/2 MILES
◁ = PORTABLE CHANGEABLE MESSAGE SIGN

NOT TO SCALE

Stantec

CONSTRUCTION APPROACH SIGNING SHEET #2

PROJECT NAME: ST. JOHNSBURY-LYNDON
PROJECT NUMBER: STP 2928(1)

FILE NAME: p10c262.dgn
PROJECT LEADER: JLL
DESIGNED BY: MCF
IPARM FILE: p10c262cas02.i
PLOT DATE: 10/17/2013
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 133 OF 133