

INDEX OF SHEETS
SEE SHEET 2

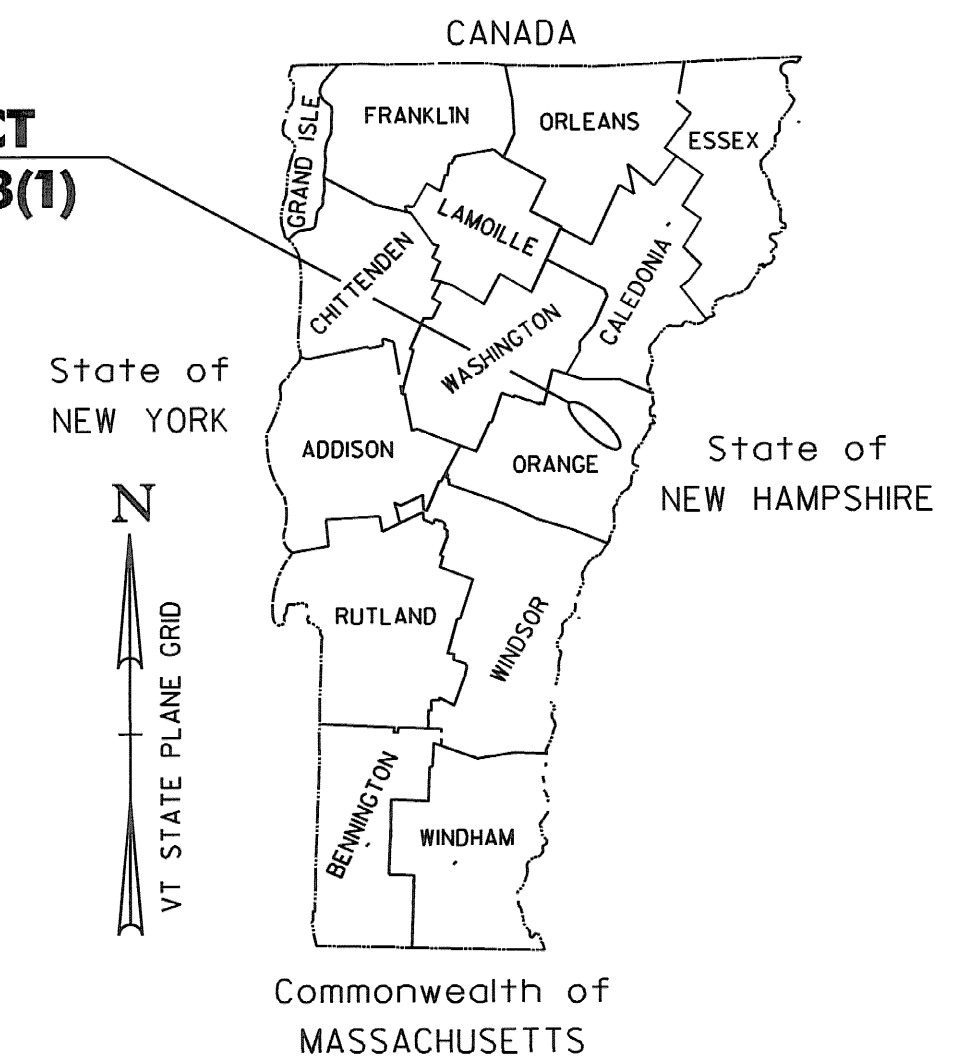
STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWNS OF BRADFORD, CORINTH, TOPSHAM & ORANGE
COUNTY OF ORANGE
VT ROUTE 25

BEGINNING IN THE TOWN OF BRADFORD AT STA. 332+48.16 (MM 6.297) AND EXTENDING NORTHERLY ALONG VT ROUTE 25 FOR A DISTANCE OF 60,392.64 FEET (11.438 MILES) THROUGH THE TOWNS OF CORINTH AND TOPSHAM TO THE TOWN OF ORANGE AT THE INTERSECTION OF U.S. ROUTE 302 AT STA. 16+31.52 (MM 0.309).

PROJECT
STP 2213(1)



SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS	848,500
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

TRAFFIC DATA
VT ROUTE 25

LOCATION	AADT		DHV		ESALS	
	2008	2018	2008	2018	2008-2018	2008-2028
BEGIN PROJECT TO BROOK ROAD IN CORINTH	2,700	3,000	310	340	709,000	1,697,000
BROOK ROAD TO PIKE HILL ROAD IN TOPSHAM	2,200	2,500	250	280	577,000	1,404,000
PIKE HILL ROAD TO END PROJECT	1,600	1,800	180	200	453,000	1,097,000

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES, INC. - BERLIN, VT

RESIDENT ENGINEER: CARL FIELDER

CONSTRUCTION BEGAN: AUGUST 3, 2009

CONSTRUCTION COMPLETE: NOVEMBER 12, 2009

RECORD PLANS BY: CARL FIELDER & C. PIERCE

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

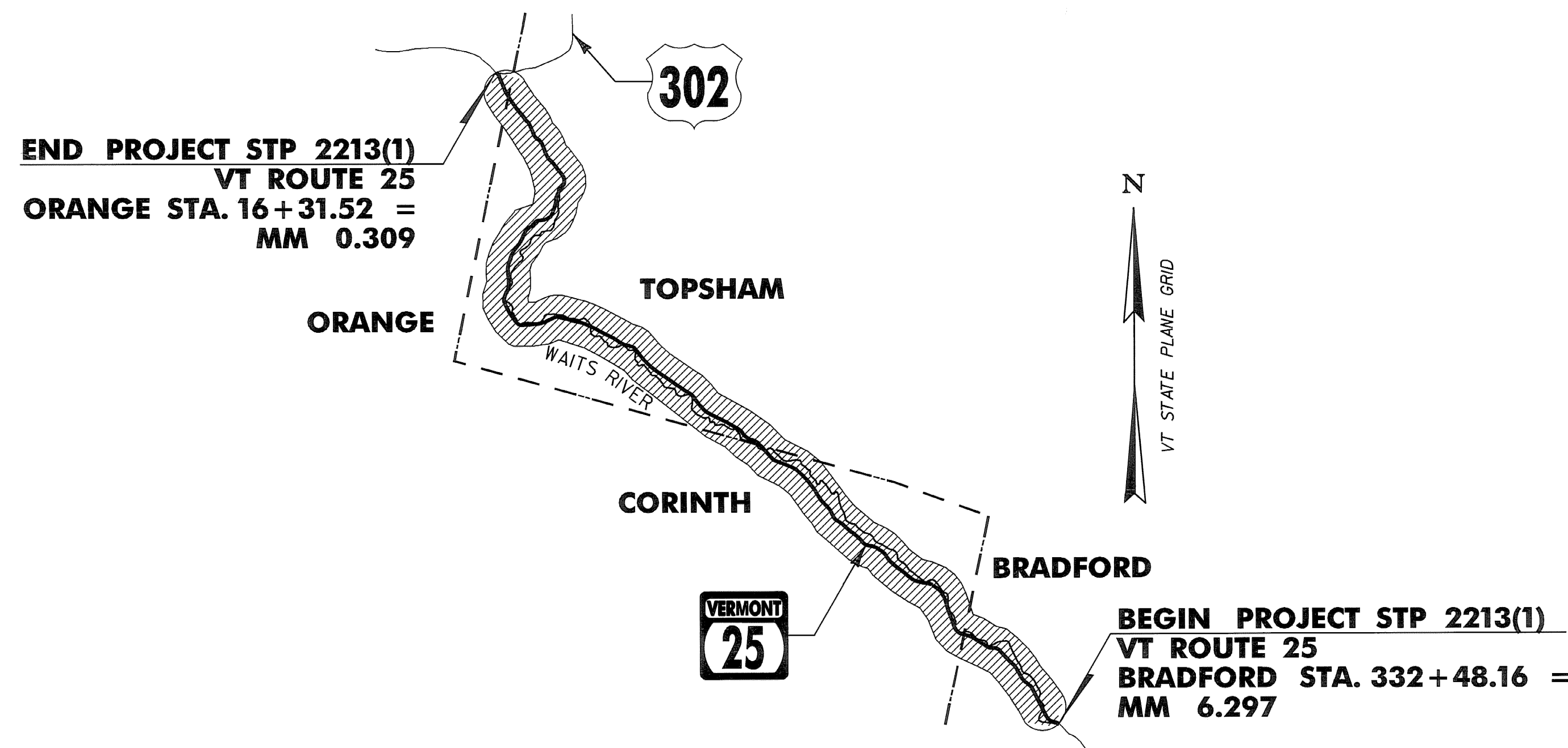
BY *Carl Fielder* RESIDENT ENGINEER
DATE *April 23, 2010*

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

PROJECT DATA:	LENGTH (FEET)	LENGTH (MILES)
TOWN OF BRADFORD VT ROUTE 25 STA. 332+48.16 TO 367+38.24 MM 6.297 TO 6.958	3,490.08	0.661
TOWN OF CORINTH VT ROUTE 25 STA 0+00.00 TO 209+93.28 MM 0.000 TO 3.976	20,993.28	3.976
TOWN OF TOPSHAM VT ROUTE 25 STA 0+00.00 TO 342+77.76 MM 0.000 TO 6.492	34,277.76	6.492
TOWN OF ORANGE VT ROUTE 25 STA. 0+00.00 TO 16+31.52 MM 0.000 TO 0.309	1,631.52	0.309

TOTAL LENGTH OF PROJECT: 60,392.64 FEET = 11.438 MILES
TOTAL LENGTH OF ROADWAY: 60,392.64 FEET = 11.438 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY WITH A LEVELING COURSE AND A WEARING COURSE, NEW PAVEMENT MARKINGS, GUARD RAIL, SIGNS AND OTHER INCIDENTAL ITEMS



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 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

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

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED <i>Paul J. Fitch</i>	DATE 5-20-09
PROJECT MANAGER : TED DOMEY	
PROJECT NAME : BRADFORD-ORANGE	
PROJECT NUMBER : STP 2213(1)	
SHEET 1 OF 84 SHEETS	



Stantec
p99bl78.dgn
p99bl78t.s1

CONVENTIONAL SYMBOLS

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

SURVEYED BY : N/A
SURVEYED DATE : N/A

DATUM
VERTICAL N/A
HORIZONTAL N/A

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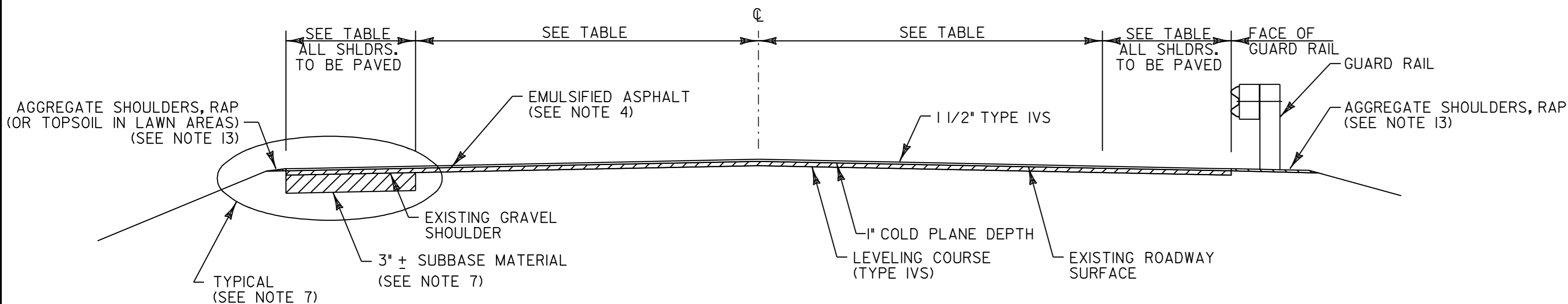
VAOT STANDARDS

C-10	02-11-08
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-100	01-02-04
E-100A	01-02-04
E-101	05-30-03
E-102	06-30-03
E-102A	05-01-04
E-106	03-01-04
E-108	12-08-08
E-108A	12-08-08
E-110	08-08-95
E-121	08-08-95
E-123	03-16-04
E-128B	08-08-95
E-134	08-08-95
E-136A	08-08-95
E-136B	08-08-95
E-138	05-30-03
E-141	09-20-95
E-142	09-20-95
E-143	06-15-04
E-150	05-01-04
E-151	05-01-04
E-153	05-01-04
E-154	05-01-04
E-155	05-01-04
E-160	05-20-99
E-161	08-18-95
E-162	05-20-99
E-163	05-20-99
E-164	05-20-99
E-191	02-01-99
E-192	10-12-00
E-193	08-18-95
G-1	01-03-00
G-1d	01-03-00
G-10	02-23-95
G-19	11-15-02
J-3	08-07-95
SB-R4B-82	03-30-88
SB-R6-82	01-06-95

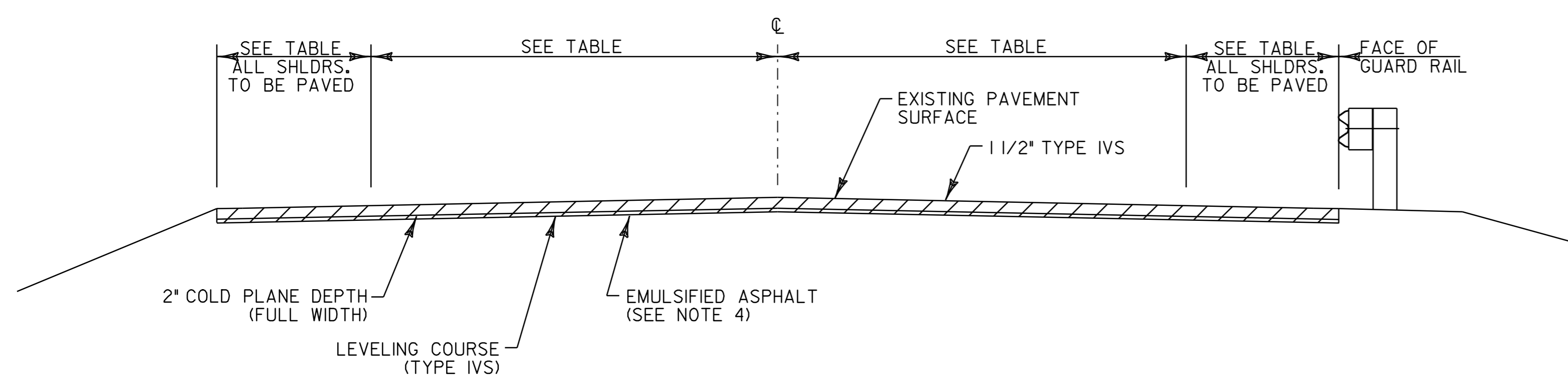


INDEX OF SHEETS

PROJECT NAME:	BRADFORD - ORANGE		
PROJECT NUMBER:	STP 2213(1)		
FILE NAME:	p99b178.dgn	PLOT DATE:	28-MAY-2010 13:4
PROJECT LEADER:	JLL	DRAWN BY:	STANTEC
DESIGNED BY:	STANTEC	CHECKED BY:	JLL
IPARM FILE:	p99b178pts01.i	SHEET	2 OF 84



COLD PLANE & OVERLAY TYPICAL SECTION
VT ROUTE 25 BRADFORD STA. 332+48.16 TO TOPSHAM STA. 233+37.60



COLD PLANE & OVERLAY TYPICAL SECTION
VT ROUTE 25 TOPSHAM STA. 233+37.60 TO ORANGE STA. 16+31.52
U.S. ROUTE 302 ORANGE STA. 319+44 TO 322+03

NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE 65 GYRATION SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2\"/>
- 2. GRASS GROWING ADJACENT TO PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- 3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ±1/4\"/>
- 4. EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE VAOT RESIDENT ENGINEER.
- 5. COLD PLANING TO BE COMPLETED ACCORDING TO THE 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 3.
- 6. BITUMINOUS CONCRETE PAVEMENT WORK WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS AROUND SEWER MANHOLES AND DROP INLETS, ETC.) SHALL BE PAID AS ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- 7. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE VAOT RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3\"/>
- 8. QUANTITIES FOR ITEMS 604.412, 604.415 AND 604.418 REHAB. DROP INLETS, CATCH BASINS OR MANHOLES, CLASS I, II OR III HAVE BEEN INCLUDED IN THE QUANTITIES TO BE USED AS DIRECTED BY THE VAOT RESIDENT ENGINEER. ALL D'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN.
- 9. 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 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. 25 CUBIC YARDS OF EARTH BORROW HAVE 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.
- 10. THE PROPOSED GUARDRAIL SHALL BE INSTALLED A MINIMUM OF 16 FEET FROM THE CENTER OF THE ROAD OR A DISTANCE THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL AS DIRECTED BY THE VAOT RESIDENT ENGINEER. 3' OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6' POSTS. IF THIS CANNOT BE OBTAINED, THEN 8' POSTS SHALL BE USED.
- 11. ALL PUBLIC, PRIVATE OR FIELD DRIVES SHALL RECEIVE A MINIMUM 4' PAVED APRON PAYABLE UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES) UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS WHETHER BY HAND OR MECHANICAL METHODS SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEM FOR BITUMINOUS CONCRETE PAVEMENT.
- 12. 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 VAOT RESIDENT ENGINEER.
- 13. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE VAOT RESIDENT ENGINEER, AND WILL BE PAID FOR UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP.
- 14. ITEM 616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS WILL BE PAID ONLY WHERE SPECIFIED IN THE PLANS. ALL OTHER BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS SIDE ROAD APPROACHES, AND AROUND DRAINAGE/UTILITY STRUCTURES), SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.

VARIES PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING DEPTH	NOTES
BRADFORD, VT ROUTE 25	332+48.16	356+49.7	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 1", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS
CORINTH, VT ROUTE 25	0+00.0	209+93.28	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 1", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS
TOPSHAM, VT ROUTE 25	0+00.0	233+37.60	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 1", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS
TOPSHAM, VT ROUTE 25	233+37.60	342+77.76	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 2", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS
ORANGE, VT ROUTE 25	0+00.0	16+31.52	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 2", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS
ORANGE, U.S. ROUTE 302	319+44	322+03	VARIES - SEE LAYOUT SHEET #40	1 1/2"	1/2"	COLD PLANE 2", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS

← 332+48.16 - 333+48.16 COLD PLANE TRANSITION .5" TO 0" THEN OVERLAY 1.5"
333+48.16 - 356+49.7 OVERLAY 1.5"

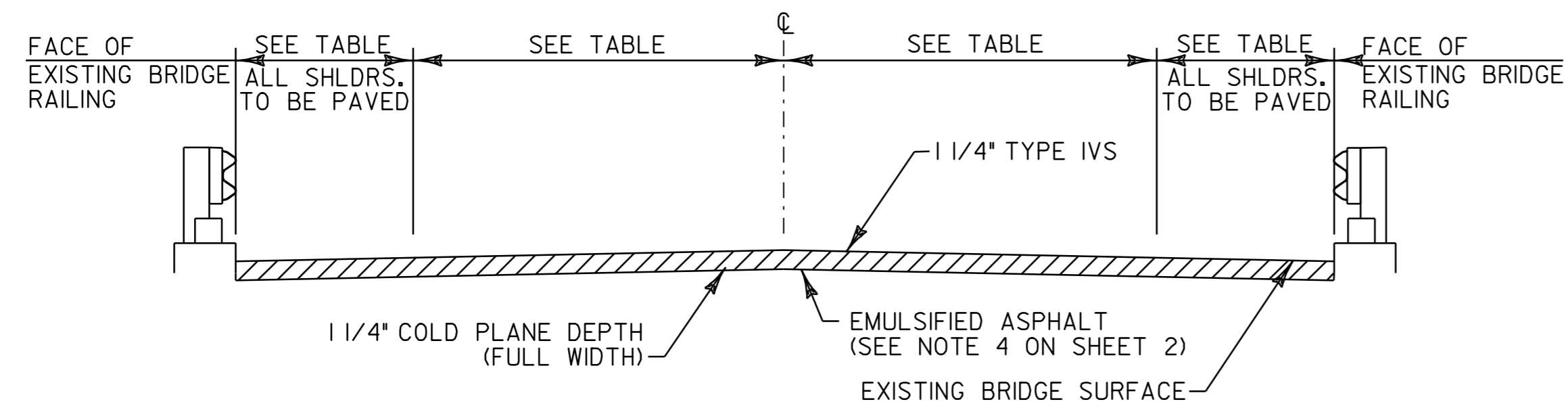
← NO TREATMENT ON US 302

NOT TO SCALE



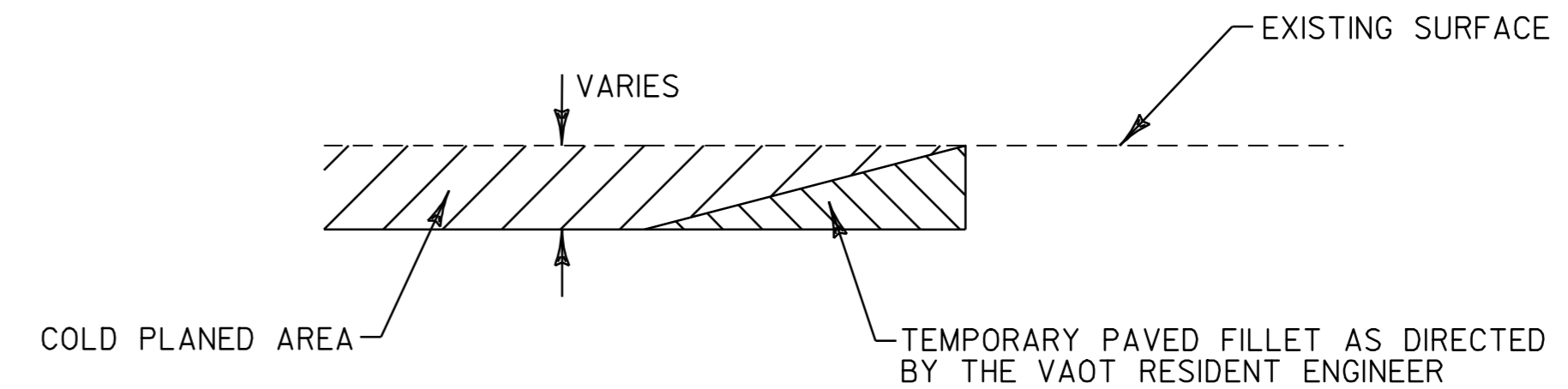
PROJECT TYPICAL SHEET #1

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: SIP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	
IPARM FILE: p99b178pts01.i	SHEET 3	OF 84



COLD PLANE TYPICAL SECTION - BRIDGE

- BR#11 CORINTH STA. 120+80.9 TO 120+96.7
- BR#12 CORINTH STA. 205+00.5 TO 205+38.5
- BR#16 TOPSHAM STA. 128+40.6 TO 129+24.7
- BR#17 TOPSHAM STA. 145+07.0 TO 145+91.5
- BR#19 TOPSHAM STA. 234+58.1 TO 234+71.6
- BR#20 TOPSHAM STA. 271+47.6 TO 271+79.0
- BR#21 TOPSHAM STA. 273+84.4 TO 273+92.4
- BR#22 TOPSHAM STA. 292+05.3 TO 292+12.8
- BR#23 TOPSHAM STA. 300+95.1 TO 301+38.0

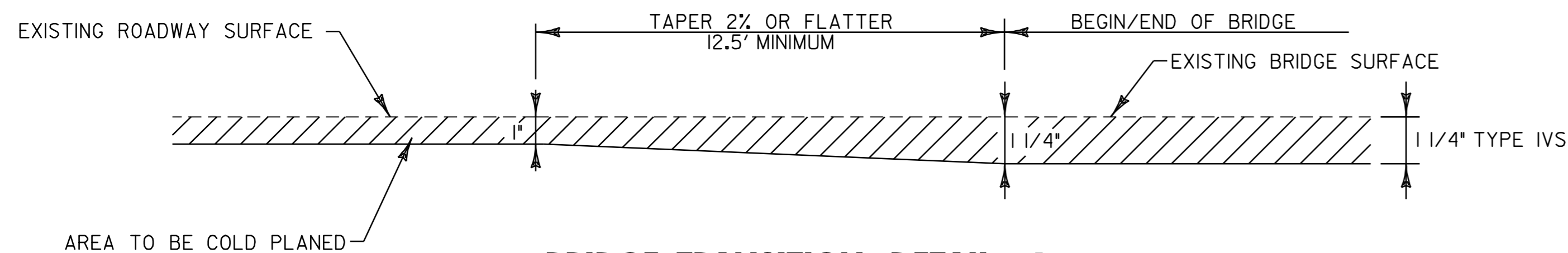


DETAIL AT VERTICAL COLD PLANE JOINTS

NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS LISTED BELOW AND AT ALL DRIVES AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 490.30.

FULL ROADWAY WIDTH

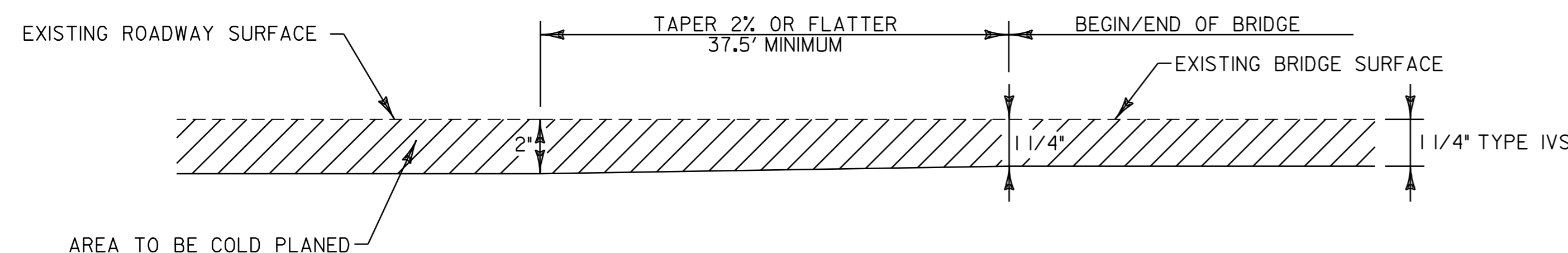
- BRADFORD STA. 332+48.16 (BEGIN PROJECT)
- BRADFORD STA. 352+32, LT (TAPLIN HILL RD.)
- CORINTH STA. 69+14, RT (VILLAGE RD.)
- CORINTH STA. 81+51, LT (FAIRGROUND RD.)
- CORINTH STA. 113+62, LT (BROOK RD.)
- CORINTH STA. 191+01, LT (LIMLAW RD. EAST)
- CORINTH STA. 192+62, LT (LIMLAW RD. WEST)
- CORINTH STA. 206+55, RT (BRULEIGH RD.)
- TOPSHAM STA. 5+43, RT (WAITS RIVER VALLEY SCHOOL RD.)
- TOPSHAM STA. 42+42, RT (WATSON HILL RD.)
- TOPSHAM STA. 72+88, LT (PIKE HILL RD.)
- TOPSHAM STA. 73+13, RT (GENDRON RD.)
- TOPSHAM STA. 143+45, RT (PERRY/WATERMAN RD.)
- TOPSHAM STA. 168+02, LT (E. ORANGE RD. EAST)
- TOPSHAM STA. 173+03, LT (E. ORANGE RD. WEST)
- ORANGE STA. 16+31.52 (END PROJECT)



BRIDGE TRANSITION DETAIL #1

FULL ROADWAY WIDTH

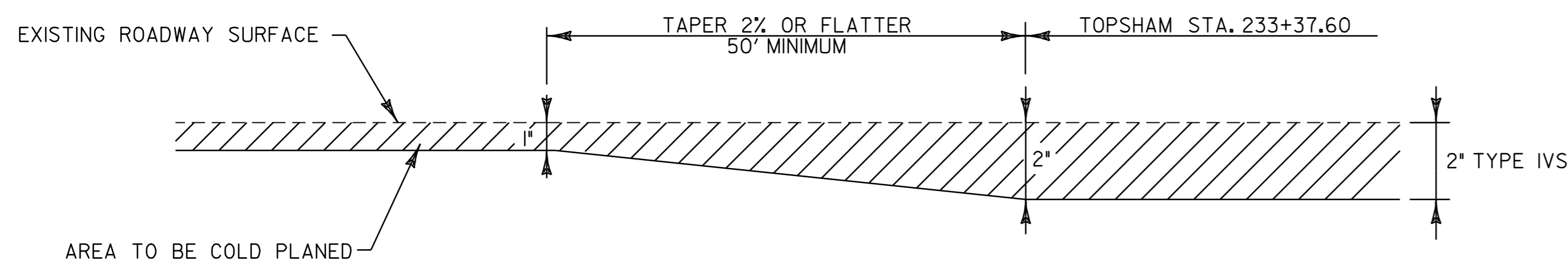
- BR #11 CORINTH STA. 120+68.4 TO 120+80.9
- BR #11 CORINTH STA. 120+96.7 TO 121+09.2
- BR #12 CORINTH STA. 204+88.0 TO 205+00.5
- BR #12 CORINTH STA. 205+38.5 TO 205+51.0
- BR #16 TOPSHAM STA. 128+28.1 TO 128+40.6
- BR #16 TOPSHAM STA. 129+24.7 TO 129+37.2
- BR #17 TOPSHAM STA. 144+94.5 TO 145+07.0
- BR #17 TOPSHAM STA. 145+91.5 TO 146+04.0



BRIDGE TRANSITION DETAIL #2

FULL ROADWAY WIDTH

- BR #19 TOPSHAM STA. 234+45.6 TO 234+58.1
- BR #19 TOPSHAM STA. 234+71.6 TO 234+84.1
- BR #20 TOPSHAM STA. 271+35.1 TO 271+47.6
- BR #20 TOPSHAM STA. 271+79 TO 271+91.5
- BR #21 TOPSHAM STA. 273+71.9 TO 273+84.4
- BR #21 TOPSHAM STA. 273+92.4 TO 274+04.9
- BR #22 TOPSHAM STA. 291+92.7 TO 292+05.2
- BR #22 TOPSHAM STA. 292+12.8 TO 292+25.3
- BR #23 TOPSHAM STA. 300+82.6 TO 300+95.1
- BR #23 TOPSHAM STA. 301+38.0 TO 301+50.5
- BR #24 ORANGE STA. 14+88 +/-



COLD PLANE TRANSITION DETAIL

FULL ROADWAY WIDTH

TOPSHAM STA. 232+87.60 TO 233+37.60

RURAL AREAS - SEED MIXTURE

% WT	LBS/A	NAME	PUR %	GERM %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100	60			

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

SEED:
TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE VAOT RESIDENT ENGINEER.

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

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

TEMPORARY EROSION MATTING:
TO BE PLACED ON EARTH SLOPES AS DIRECTED BY THE VAOT RESIDENT ENGINEER.

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



NOT TO SCALE

**PROJECT
TYPICAL
SHEET #2**

PROJECT NAME: BRADFORD - ORANGE

PROJECT NUMBER: STP 2213(I)

FILE NAME: p99b178.dgn

PLOT DATE: 28-MAY-2010 13:4

PROJECT LEADER: JLL

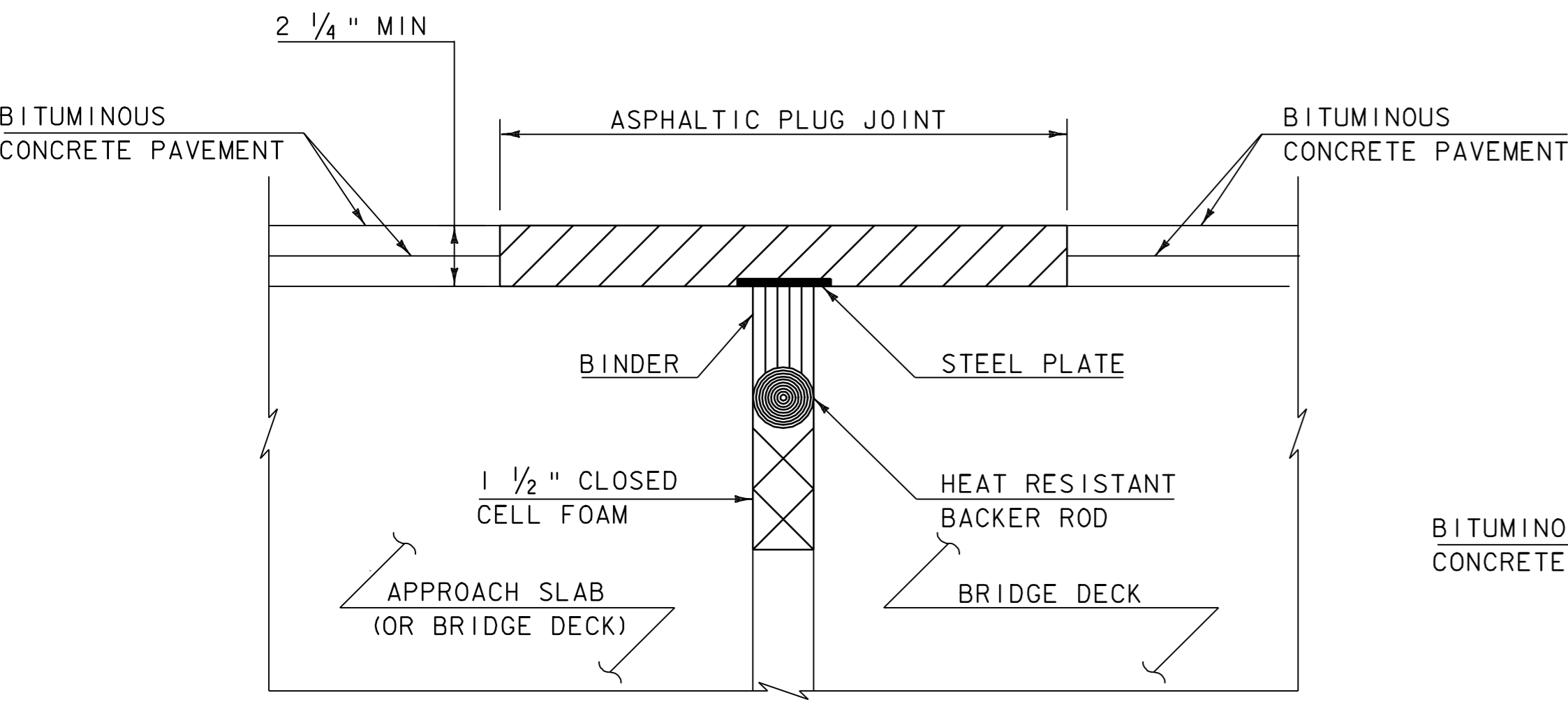
DRAWN BY: STANTEC

DESIGNED BY: STANTEC

CHECKED BY: JLL

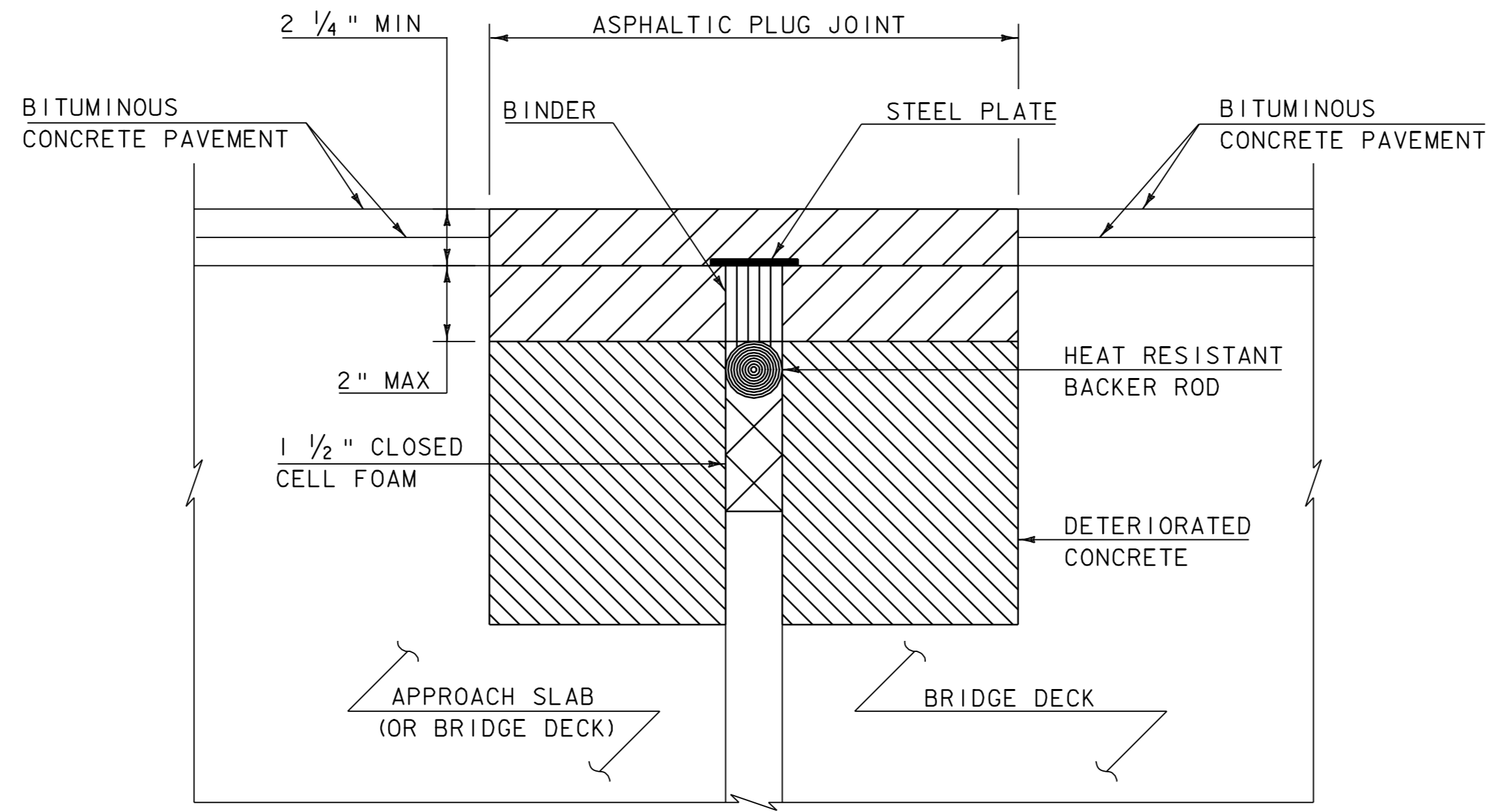
IPARM FILE: p99b178pts02.i

SHEET 4 OF 84



ASPHALTIC PLUG-TYPE JOINT DETAIL
(NOT TO SCALE)

BR 11	U.S. ROUTE 25	CORINTH	STA. 120+80.9	(33 LF)
BR 11	U.S. ROUTE 25	CORINTH	STA. 120+96.7	(33 LF)
BR 12	U.S. ROUTE 25	CORINTH	STA. 205+00.5	(26 LF)
BR 12	U.S. ROUTE 25	CORINTH	STA. 205+38.5	(26 LF)
BR 16	U.S. ROUTE 25	TOPSHAM	STA. 128+40.6	(35 LF)
BR 16	U.S. ROUTE 25	TOPSHAM	STA. 129+24.7	(35 LF)
BR 17	U.S. ROUTE 25	TOPSHAM	STA. 145+07.0	(33 LF)
BR 17	U.S. ROUTE 25	TOPSHAM	STA. 145+91.5	(33 LF)
BR 19	U.S. ROUTE 25	TOPSHAM	STA. 234+58.1	(27 LF)
BR 19	U.S. ROUTE 25	TOPSHAM	STA. 234+71.6	(27 LF)
BR 20	U.S. ROUTE 25	TOPSHAM	STA. 271+47.6	(30 LF)
BR 20	U.S. ROUTE 25	TOPSHAM	STA. 271+79.0	(30 LF)
BR 21	U.S. ROUTE 25	TOPSHAM	STA. 273+84.4	(30 LF)
BR 21	U.S. ROUTE 25	TOPSHAM	STA. 273+92.4	(30 LF)
BR 22	U.S. ROUTE 25	TOPSHAM	STA. 292+05.2	(29 LF)
BR 22	U.S. ROUTE 25	TOPSHAM	STA. 292+12.8	(29 LF)
BR 23	U.S. ROUTE 25	TOPSHAM	STA. 300+95.1	(31 LF)
BR 23	U.S. ROUTE 25	TOPSHAM	STA. 301+38.0	(31 LF)

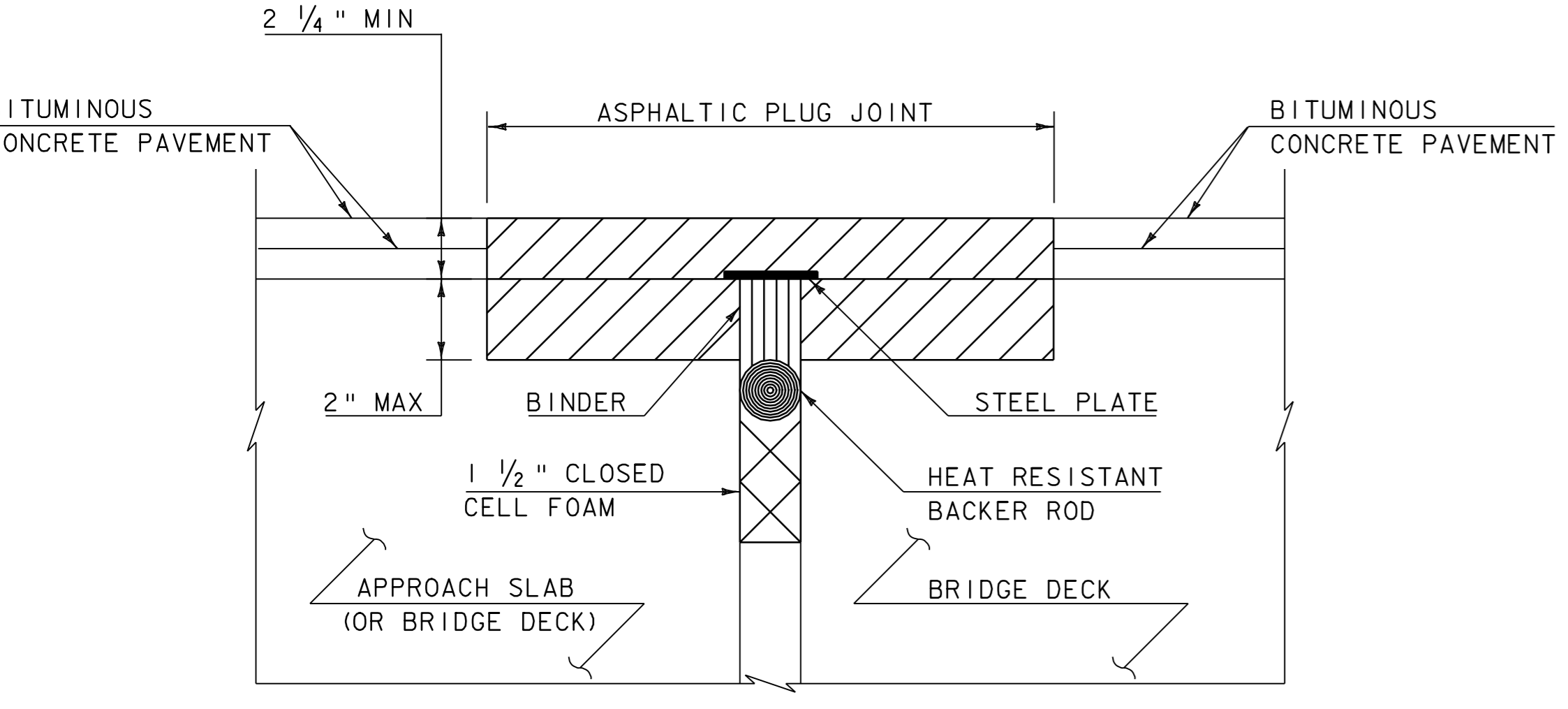


**ASPHALTIC PLUG-TYPE JOINT DETAIL
REMOVAL OF > 2" DETERIORATED CONCRETE**
(NOT TO SCALE)

- NOTES:
- UPON ENCOUNTERING GREATER THAN 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE FORMED TO EXISTING ELEVATION.
 - REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 "RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE".
 - REINFORCING STEEL NOT SHOWN FOR CLARITY.

ASPHALTIC PLUG JOINT NOTES

- INSTALLATION
 - LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
 - REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
 - BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
 - REPAIR SPALLED AND DEFECTIVE CONCRETE WITH AN APPROVED MATERIAL AS AGREED UPON BY THE ENGINEER.
 - PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
 - HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
 - PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
 - HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.
 - INSTALLATION OF MATERIAL, COMPACTION, AND TOP COATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
 - IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
 - ONCE THE JOINT REACHES 82 DEG C (180 DEG F) +/-, WATER MAYBE USED TO EXPEDITE THE COOLING PROCESS.
 - PROTECTED JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.
- WEATHER LIMITATIONS. (APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTORER):
 - THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
 - THE ROAD SURFACE IS DRY.
 - WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.



**ASPHALTIC PLUG-TYPE JOINT DETAIL
REMOVAL OF < 2" DETERIORATED CONCRETE**
(NOT TO SCALE)

- NOTES:
- UPON ENCOUNTERING UP TO 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
 - REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.



NOT TO SCALE	
ASPHALTIC PLUG JOINT DETAIL SHEET	
PROJECT NAME: BRADFORD - ORANGE	PROJECT NUMBER: STP 2213(1)
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178apjds.i	SHEET 5 OF 84

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES					TOTALS		DESCRIPTIONS			
ROADWAY	EMPLOYEE TRAINEESHIP	EROSION CONTROL	BRIDGE	FULL C.E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND
120					120		CY	COMMON EXCAVATION	203.15	3.1
1675					1675		CY	EARTH BORROW	203.30	-
3450					3450		LF	SHOULDER BERM REMOVAL	203.40	1
195000					195000		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	1308
720					720		CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	-
1450					1450		TON	SUBBASE, RAP	301.40	12
2250					2250		TON	AGGREGATE SHOULDERS, RAP	402.13	13
834					834		CWT	EMULSIFIED ASPHALT	404.65	7.8
1					1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
								BEGIN OPTION AA		
24000					24000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% RAP CONTENT)	490.30	1086
24000					24000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% < RAP CONTENT < 15.0%)	490.30	1086
24000					24000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (15.0% ≤ RAP CONTENT < 25.0%)	490.30	1086
24000					24000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (25.0% ≤ RAP CONTENT ≤ 50.0%)	490.30	1086
								END OPTION AA		
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	-
			550		550		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	2
			425		425		LF	REMOVAL OF EXISTING RAILING	525.10	12.5
			25		25		LF	BRIDGE RAILING, GALVANIZED HD STEEL BEAM/CURB MOUNTED	525.40	-
			400		400		LF	BRIDGE RAILING REPAIR, TYPE III	525.60	12.5
			0.5		0.5		CY	REMOVAL OF CONCRETE OR MASONRY	529.25	-
			100		100		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST
40					40		LF	18" CPEP	601.0915	EST
1					1		EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	EST
4					4		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST
4					4		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST
4					4		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	EST
300					300		HR	POWER GRADER RENTAL	608.15	EST
300					300		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST
180					180		HR	POWER BROOM RENTAL, TYPE I	608.30	EST
180					180		HR	POWER BROOM RENTAL, TYPE II	608.31	EST
300					300		HR	TRUCK RENTAL	608.37	EST
300					300		HR	LOADER RENTAL, TYPE I	608.40	EST
9					9		MGAL	DUST CONTROL WITH WATER	609.10	1

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		COLD PLANING - BITUMINOUS PAVEMENT
186554	SY	MAINLINE
1124	SY	BRIDGES
6014	SY	SIDEROADS
1308	SY	ROUNDING
195000	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
16702	TON	MAINLINE WEARING COURSE, TYPE IV S
419	TON	SIDEROADS WEARING COURSE, TYPE IV S
5567	TON	MAINLINE LEVELING COURSE, TYPE IV S
140	TON	SIDEROADS LEVELING COURSE, TYPE IV S
86	TON	BRIDGES
1086	TON	ROUNDING
24000	TON	TOTAL
		TEMPORARY EROSION MATTING
3920	SY	DITCH CLEANING
1675	SY	M.T.S. CONSTRUCTION
2420	SY	SEED PROTECTION
35	SY	ROUNDING
8050	SY	TOTAL

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(I)
FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL DRAWN BY: STANTEC
DESIGNED BY: STANTEC CHECKED BY: JLL
IPARM FILE: p99b178qs01.i SHEET 6 OF 84

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES					TOTALS		DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES			
ROADWAY	EMPLOYEE TRAINEESHIP	EROSION CONTROL	BRIDGE	FULL C.E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND	QUANTITIES	UNIT	ITEMS
		550			550		CY	STONE FILL, TYPE I	613.10	17.7			
		50			50		CY	STONE FILL, TYPE II	613.11	EST.			
350					350		LF	TREATED TIMBER CURB	616.35	5			
28					28		TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	0.8			
2					2		EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-			
1					1		EACH	RELOCATE MAILBOX, MULTIPLE SUPPORT	617.12	-			
240					240		EACH	YIELDING MARKER POSTS	619.17	EST			
14600					14600		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	11.9			
2250					2250		LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	5.6			
875					875		LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	8.5			
66					66		EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-			
1					1		EACH	MANUFACTURED TERMINAL SECTION, TANGENT	621.51	-			
18					18		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-			
1					1		EACH	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I	621.70	-			
3					3		EACH	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE II	621.71	-			
55					55		EACH	REPLACE GUARDRAIL POST ASSEMBLY	621.76	EST			
28					28		EACH	REPLACE GUARDRAIL BEAM UNIT	621.77	EST			
345					345		LF	ADJUST HEIGHT OF GUARDRAIL	621.79	EST			
10909					10909		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-			
23					23		EACH	REMOVAL AND DISPOSAL OF GUIDE POSTS	621.81	-			
1					1		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	EST			
2360					2360		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST			
7080					7080		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	-			
				1	1		LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-			
	520				520		HR	EMPLOYEE TRAINEESHIP	634.10	-			
1					1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
1					1		LS	TRAFFIC CONTROL	641.10	-			
2					2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
120600					120600		LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	130			
111100					111100		LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	172			
265					265		LF	DURABLE 8 INCH WHITE LINE, THERMOPLASTIC	646.442	10			
420					420		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	4			
81					81		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-			
241100					241100		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	160			

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(I)
FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL DRAWN BY: STANTEC
DESIGNED BY: STANTEC CHECKED BY: JLL
IPARM FILE: p99b178qs02.i SHEET 7 OF 84

ITEM DETAIL SUMMARY SHEET 1

LOCATION			GUARDRAIL													MISCELLANEOUS				REMARKS
BEGIN STATION	END STATION	POS.	621.20	621.205	621.21	621.50	621.51	621.60	621.70	621.71	621.76	621.77	621.79	621.80	621.81	203.15	203.30	203.40	601.0915	
			S.B. GR. GALV. LF	S.B. GR. GALV. W/ 8 FT POSTS LF	HD S.B. G.R. GALV. LF	MTS, FLARED EA	MTS, TANGENT EA	ANCHOR FOR S.B. RAIL EA	G.R. APP. SECTION GALV. TYPE I EACH	G.R. APP. SECTION GALV. TYPE II EACH	REPLACE G.R. POST ASSEMBLY EACH	REPLACE G.R. BEAM UNIT EACH	ADJUST HEIGHT OF G.R. LF	REMOVAL & DISPOSAL OF GUARDRAIL LF	REMOVAL & DISPOSAL OF GUIDE POSTS EACH	COMMON EXCAVATION CY	EARTH BORROW CY	SHOULDER BERM REMOVAL LF	18" CPEP LF	
VT ROUTE 25																				
BRADFORD ORANGE																				
332+48	16+32	LT&RT									55	28	345							
BRADFORD																				
336+44	344+83	RT	762.5			2								839		50			INSTALL M.T.S., FLARED @ 336+44 AND 344+44, RT	
345+31		LT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
347+21		RT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
362+45	366+20	RT	300			2								314		50			INSTALL M.T.S., FLARED @ 362+45 AND 365+82.5, RT	
CORINTH																				
0+10	2+48	RT																238	RETAIN EXISTING GUARD RAIL	
11+29	18+79	RT	675			2										50			INSTALL M.T.S., FLARED @ 11+29 AND 18+41.5, RT	
14+30		RT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
21+00	25+50	RT	375			2										50			INSTALL M.T.S., FLARED @ 21+00 AND 25+12.5, RT	
32+79	41+80	RT	712.5	112.5		2								867		50			INSTALL M.T.S., FLARED @ 32+80 AND 41+42.5, RT	
36+25		RT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
36+45		RT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
47+64	49+89	LT	187.5			1		2						113		25			INSTALL M.T.S., FLARED @ 47+64, LT : SEE VAOT STANDARD SHEET G-10, PROVIDE 2 ANCHORS AT 49+89, LT	
48+73	51+35.5	RT	187.5			2								179		50			INSTALL M.T.S., FLARED @ 48+73 AND 50+98, RT	
52+12.5	56+37.5	RT	350			2										50			INSTALL M.T.S., FLARED @ 52+12.5 AND 56+00, RT	
59+41	68+37	RT															896		RETAIN EXISTING GUARD RAIL	
67+50		LT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
71+00		LT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
72+77.5	77+02.5	RT	350			2										50		20	INSTALL M.T.S., FLARED @ 72+77.5 AND 76+65, RT; CONSTRUCT DRAINAGE AT M.T.S. AT STA 76+65, RT - SEE GUARD RAIL DETAIL SHEET	
78+00	78+50	RT												9.3					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
87+16		LT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
119+39	121+28	RT	100		73.25			2						164					SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR AT 119+45.25 AND 121+26.5, RT	
119+57.75	123+70.25	LT	250		82.5	2								126		50			INSTALL M.T.S., FLARED @ 119+57.75 AND 123+32.75, LT	
139+15		RT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
149+97.5	158+35	RT	487.5	312.5		1		1								25			INSTALL M.T.S., FLARED @ 149+97.5, RT; SEE VAOT STANDARD SHEET G-10, PROVIDE ANCHOR AT 158+35, RT; INSTALL TREATED TIMBER CURB 152+75 TO 153+50, RT	
152+77		RT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
156+48		RT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
157+99		RT												I.I					ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
204+00.38	206+30	RT	75		82.5	1		1						173		25			INSTALL M.T.S., FLARED @ 204+00.38, RT; SEE VAOT STD. SHEET G-1d; PROVIDE ANCHOR AT 206+19.13, RT	
204+26	208+38.6	LT	262.5		82.5	1		1						176		25			SEE VAOT STD. SHEET G-1d; PROVIDE ANCHOR AT 204+32.38, LT; INSTALL M.T.S. FLARED @ 208+01.1, LT	
SHEET SUBTOTALS:			5075	425	320.75	22		7			55	28	345	2951	23	22.5	550	1134	20	

ITEM DETAIL SUMMARY SHEET #1	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: SIP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANIEC
DESIGNED BY: STANIEC	CHECKED BY: JLL
IPARM FILE: p99b178ids01.i	SHEET 9 OF 84

ITEM DETAIL SUMMARY SHEET 2

LOCATION			MISCELLANEOUS													REMARKS			
BEGIN STATION	END STATION	POS.	604.40 CHANGE ELEV OF DI, CB OR MH	604.412 REHAB DI, CB, OR MH, CLASS I	604.415 REHAB DI, CB, OR MH, CLASS II	604.418 REHAB DI, CB, OR MH, CLASS III	613.10 STONE FILL, TYPE I	616.35 TREATED TIMBER CURB	616.47 BIT. CONC. GUTTERS AND TRAFFIC ISLANDS	619.17 YIELDING MARKER POSTS	649.31 GEOTEXTILE UNDER STONE FILL	653.20 TEMP. EROSION MATTING	676.10 DELINEATOR WITH STEEL POST	676.12 REMOVAL OF EXISTING DELINEATOR					
			EA	EA	EA	EA	CY	LF	TON	EACH	SY	SY	EACH	EACH					
VT ROUTE 25																			
BRADFORD ORANGE																			
332+48	16+32	LT&RT	I	4	4	4				240									QUANTITIES FOR USE AS DIRECTED BY THE VAOT RESIDENT ENGINEER
BRADFORD																			
336+44	344+83	RT										50	2	2					INSTALL M.T.S., FLARED @ 336+44 AND 344+44, RT
345+31		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
347+21		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
362+45	366+20	RT										50	2	2					INSTALL M.T.S., FLARED @ 362+45 AND 365+82.5, RT
CORINTH																			
0+10	2+48	RT																	RETAIN EXISTING GUARD RAIL
13+12.5	17+37.5	RT										50	2						INSTALL M.T.S., FLARED @ 11+29 AND 18+41.5, RT
14+30		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
21+62.5	25+50	RT										50	2						INSTALL M.T.S., FLARED @ 21+00 AND 25+12.5, RT
32+79	41+80	RT										50	2	2					INSTALL M.T.S., FLARED @ 32+80 AND 41+42.5, RT
36+25		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
36+45		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
47+64	49+89	LT										25	2	2					INSTALL M.T.S., FLARED @ 47+64, LT : SEE VAOT STANDARD SHEET G-10, PROVIDE 2 ANCHORS AT 49+89, LT
48+73	51+10.5	RT										50	2	2					INSTALL M.T.S., FLARED @ 48+73 AND 50+98, RT
52+12.5	56+37.5	RT										50	2						INSTALL M.T.S., FLARED @ 52+12.5 AND 56+00, RT
59+41	68+37	RT																	RETAIN EXISTING GUARD RAIL
67+50		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
71+00		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
72+77.5	77+02.5	RT										50	2						INSTALL M.T.S., FLARED @ 72+77.5 AND 76+65, RT; CONSTRUCT DRAINAGE AT M.T.S. AT STA 76+65, RT - SEE GUARD RAIL DETAIL SHEET
78+00	78+50	RT					9.3				47								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
87+16		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
119+39	121+28	RT											2	2					SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR AT 119+45.25 AND 121+26.5, RT
119+57.75	123+70.25	LT										50	2	2					INSTALL M.T.S., FLARED @ 119+57.75 AND 123+32.75, LT
139+15		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
147+97.5	158+35	RT						75				25	2						INSTALL M.T.S., FLARED @ 149+97.5, RT; SEE VAOT STANDARD SHEET G-10, PROVIDE ANCHOR AT 158+35, RT; INSTALL TREATED TIMBER CURB 152+75 TO 153+50, RT
152+77		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
156+48		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
157+99		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
204+00.38	206+30	RT										25	2	2					INSTALL M.T.S., FLARED @ 204+00.38, RT; SEE VAOT STD. SHEET G-1D; PROVIDE ANCHOR AT 206+19.13, RT
204+26	208+01.1	LT										25	2	2					SEE VAOT STD. SHEET G-1d; PROVIDE ANCHOR AT 204+32.38, LT; INSTALL M.T.S. FLARED @ 208+01.1, LT
SHEET SUBTOTALS:			1	4	4	4	22.5	75		240	133.4	550	28	18					

ITEM DETAIL SUMMARY SHEET #2	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: SIP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: SIANTEC
DESIGNED BY: SIANTEC	CHECKED BY: JLL
IPARM FILE: p99b178ids02.i	SHEET 10 OF 84

ITEM DETAIL SUMMARY SHEET 3

LOCATION			GUARDRAIL												MISCELLANEOUS				REMARKS	
BEGIN STATION	END STATION	POS.	621.20	621.205	621.21	621.50	621.51	621.60	621.70	621.71	621.76	621.77	621.79	621.80	621.81	203.15	203.30	203.40		601.0915
			S.B. GR. GALV.	S.B. GR. GALV. W/ 8 FT POSTS	HD S.B. G.R. GALV.	MTS, FLARED	MTS, TANGENT	ANCHOR FOR S.B. RAIL	G.R. APP. SECTION GALV. TYPE I	G.R. APP. SECTION GALV. TYPE II	REPLACE G.R. POST ASSEMBLY	REPLACE G.R. BEAM UNIT	ADJUST HEIGHT OF G.R.	REMOVAL & DISPOSAL OF GUARDRAIL	REMOVAL & DISPOSAL OF GUIDE POSTS	COMMON EXCAVATION	EARTH BORROW	SHOULDER BERM REMOVAL		18" CPEP
			LF	LF	LF	EA	EA	EA	EACH	EACH	EACH	EACH	LF	LF	EACH	CY	CY	LF	LF	
VT ROUTE 25 TOPSHAM																				
2+12.5	5+50	LT	262.5			2											50			INSTALL M.T.S., FLARED @ 2+12.5 AND 5+12.5, LT
16+66.5	21+97	LT	362.5			2								75			50	93		CONNECT NEW STEEL BEAM GUARDRAIL TO EXISTING GUARDRAIL @ 20+66.5, LT INSTALL M.T.S., FLARED @ 16+66.5 AND 21+59.5, LT
20+82	22+22	RT				2								75			50	65		INSTALL M.T.S., FLARED @ 20+82 AND 21+84.5, RT; CONNECT TO EXISTING GUARDRAIL
50+85	56+23	LT	190	302.5		2								530			50			INSTALL M.T.S., FLARED @ 50+85 AND 55+85, LT
51+05	52+42.5	RT	62.5			2								74			50			INSTALL M.T.S., FLARED @ 51+05 AND 52+05, RT
58+01.5	65+95	LT	87.5	625		2								793			50			INSTALL M.T.S., FLARED @ 58+01.5 AND 65+51.5, LT
60+06		LT														3.7				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
85+44		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
87+66		RT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
94+23		RT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
98+18	101+88	LT				2								75			50	295		INSTALL M.T.S., FLARED @ 98+18 AND 101+50.5, LT; CONNECT TO EXISTING GUARDRAIL
99+56	100+92	RT																136		RETAIN EXISTING GUARDRAIL
100+96		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
103+34	108+84	LT	475			2								443			50			INSTALL M.T.S., FLARED @ 103+34 AND 108+46.5, LT
126+62	131+43.5	RT	62.5			2								75			50	344		INSTALL M.T.S., FLARED @ 126+62 AND 131+06, RT; CONNECT NEW GUARDRAIL TO EXISTING GUARDRAIL
127+46	131+06	LT				2								75			50	285		INSTALL M.T.S., FLARED @ 127+46 AND 130+68.5, LT; CONNECT TO EXISTING GUARDRAIL
129+20		LT														1.9				CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER
144+42	145+05.5	LT				1				1				63.5			25			INSTALL M.T.S., FLARED @ 144+55.5, LT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17
144+56	145+05.5	RT	25					1		1				49.5						SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR @ 144+68, RT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17
145+92	147+55	RT	112.5			1				1				77			25			INSTALL M.T.S., FLARED @ 147+17.5, RT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17
145+92	147+30	LT	50			1			1					77			25			INSTALL M.T.S., FLARED @ 146+92.5, LT; CONNECT G.R. APP. SECTION, GALV. TYPE I TO EXIST. BRIDGE RAIL ON BR 17
148+50	154+50	LT	525			2											50			INSTALL M.T.S., FLARED @ 148+50 AND 154+12.5, LT
159+50	164+50	RT	425			2											50			INSTALL M.T.S., FLARED @ 159+50 AND 164+12.5, RT
171+62.5	176+37.5	RT	400			2											50			INSTALL M.T.S., FLARED @ 171+62.5 AND 176+00, RT
182+75	196+87.5	RT	1337.5			2											50			INSTALL M.T.S., FLARED @ 182+75 AND 196+50, RT
183+76	188+26	LT	375			2											50			INSTALL M.T.S., FLARED @ 183+76 AND 187+88.5, LT
193+40	194+59	RT														22				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
230+98.75	235+30	RT	50	225	73.75	2								389			50			INSTALL M.T.S., FLARED @ 230+98.75 AND 234+92.5, RT
232+93.75	237+50	LT	300		73.75	2								100			50			INSTALL M.T.S., FLARED @ 232+93.75 AND 237+12.5, LT
234+21		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
SHEET SUBTOTALS:			5102.5	1152.5	147.5	37		1	1	3				2971		33.1	925	1218		

ITEM DETAIL SUMMARY SHEET #3	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: SIP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANIEC
DESIGNED BY: STANIEC	CHECKED BY: JLL
IPARM FILE: p99b178idss03.i	SHEET 11 OF 84

ITEM DETAIL SUMMARY SHEET 4

LOCATION			MISCELLANEOUS														REMARKS		
BEGIN STATION	END STATION	POS.	604.40	604.412	604.415	604.418	613.10	616.35	616.47	619.17	649.31	653.20	676.10	676.12					
			CHANGE ELEV OF DI, CB OR MH	REHAB DI, CB, OR MH, CLASS I	REHAB DI, CB, OR MH, CLASS II	REHAB DI, CB, OR MH, CLASS III	STONE FILL, TYPE I	TREATED TIMBER CURB	BIT. CONC. GUTTERS AND TRAFFIC ISLANDS	YIELDING MARKER POSTS	GEOTEXTILE UNDER STONE FILL	TEMP. EROSION MATTING	DELINEATOR WITH STEEL POST	REMOVAL OF EXISTING DELINEATOR					
VT ROUTE 25 TOPSHAM			EA	EA	EA	EA	CY	LF	TON	EACH	SY	SY	EACH	EACH					
2+12.5	5+50	LT										50	2						INSTALL M.T.S., FLARED @ 2+12.5 AND 5+12.5, LT
16+66.5	21+97	LT										50	2	2					CONNECT NEW STEEL BEAM GUARDRAIL TO EXISTING GUARDRAIL @ 20+66.5, LT INSTALL M.T.S., FLARED @ 16+66.5 AND 21+59.5, LT
20+82	22+22	RT										50	2	2					INSTALL M.T.S., FLARED @ 20+82 AND 21+84.5, RT; CONNECT TO EXISTING GUARDRAIL
50+85	56+23	LT										50	2	2					INSTALL M.T.S., FLARED @ 50+85 AND 55+85, LT
51+05	52+42.5	RT										50	2	2					INSTALL M.T.S., FLARED @ 51+05 AND 52+05, RT
58+01.5	65+95	LT										50	2	2					INSTALL M.T.S., FLARED @ 58+01.5 AND 65+51.5, LT
60+06		LT					3.7				20								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
85+44		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
87+66		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
94+23		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
98+18	101+88	LT										50	2	2					INSTALL M.T.S., FLARED @ 98+18 AND 101+50.5, LT; CONNECT TO EXISTING GUARDRAIL
99+56	100+92	RT																	RETAIN EXISTING GUARD RAIL
100+96		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
103+34	108+84	LT										50	2						INSTALL M.T.S., FLARED @ 103+34 AND 108+46.5, LT
126+62	130+81	RT										50	2	2					INSTALL M.T.S., FLARED @ 126+62 AND 131+06, RT; CONNECT NEW GUEARDRAIL TO EXISTING GUARDRAIL
127+46	131+06	LT										50	2	2					INSTALL M.T.S., FLARED @ 127+46 AND 130+68.5, LT; CONNECT TO EXISTING GUARDRAIL
129+20		LT					1.9				8.3								CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER
144+42	145+05.5	LT										25	1	1					INSTALL M.T.S., FLARED @ 144+55.5, LT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17
144+56	145+05.5	RT											1	1					SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR @ 144+68, RT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17
145+92	146+80	RT										25	1	1					INSTALL M.T.S., FLARED @ 147+17.5, RT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17
145+92	147+29.5	LT										25	1						INSTALL M.T.S., FLARED @ 146+92.5, LT; CONNECT G.R. APP. SECTION, GALV. TYPE I TO EXIST. BRIDGE RAIL ON BR 17
148+50	154+50	LT										50	2						INSTALL M.T.S., FLARED @ 148+50 AND 154+12.5, LT
159+50	164+50	RT										50	2						INSTALL M.T.S., FLARED @ 159+50 AND 164+12.5, RT
171.62	176+37.5	RT										50	2						INSTALL M.T.S., FLARED @ 171+62.5 AND 176+00, RT
184+87.5	186+12.5	RT										50	2						INSTALL M.T.S., FLARED @ 182+75 AND 196+50, RT
184+87.5	186+12.5	LT										50	2						INSTALL M.T.S., FLARED @ 183+76 AND 187+88.5, LT
193+40	194+59	RT					22				109								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
230+98.75	235+30	RT										50	2	2					INSTALL M.T.S., FLARED @ 230+98.75 AND 234+92.5, RT
232+93.75	237+50	LT										50	2	2					INSTALL M.T.S., FLARED @ 232+93.75 AND 237+12.5, LT
234+21		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
SHEET SUBTOTALS:							33.1				173.3	925	38	23					

ITEM DETAIL SUMMARY SHEET #4	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: SIP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178ids04.i	SHEET 12 OF 84

ITEM DETAIL SUMMARY SHEET 5

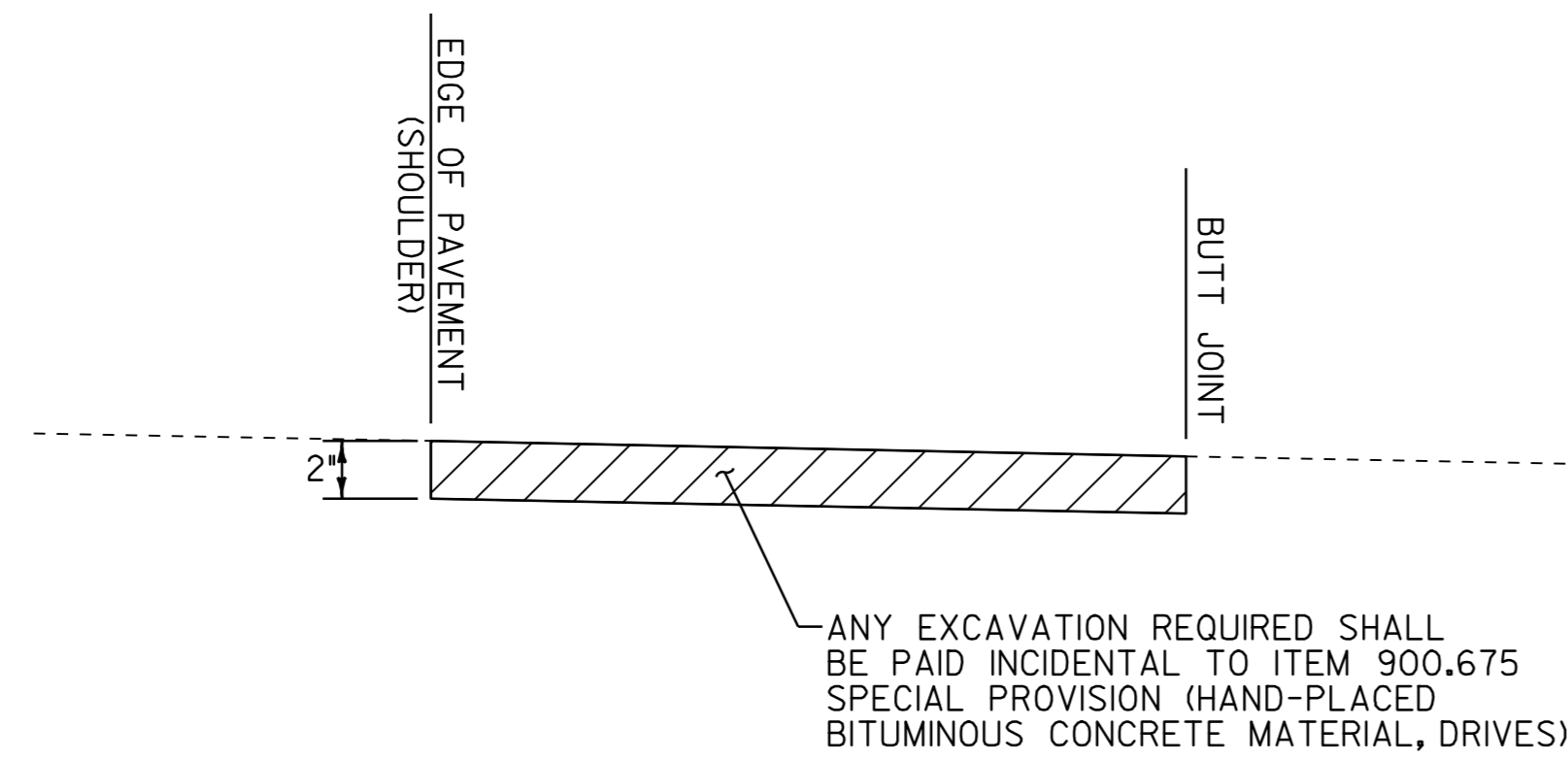
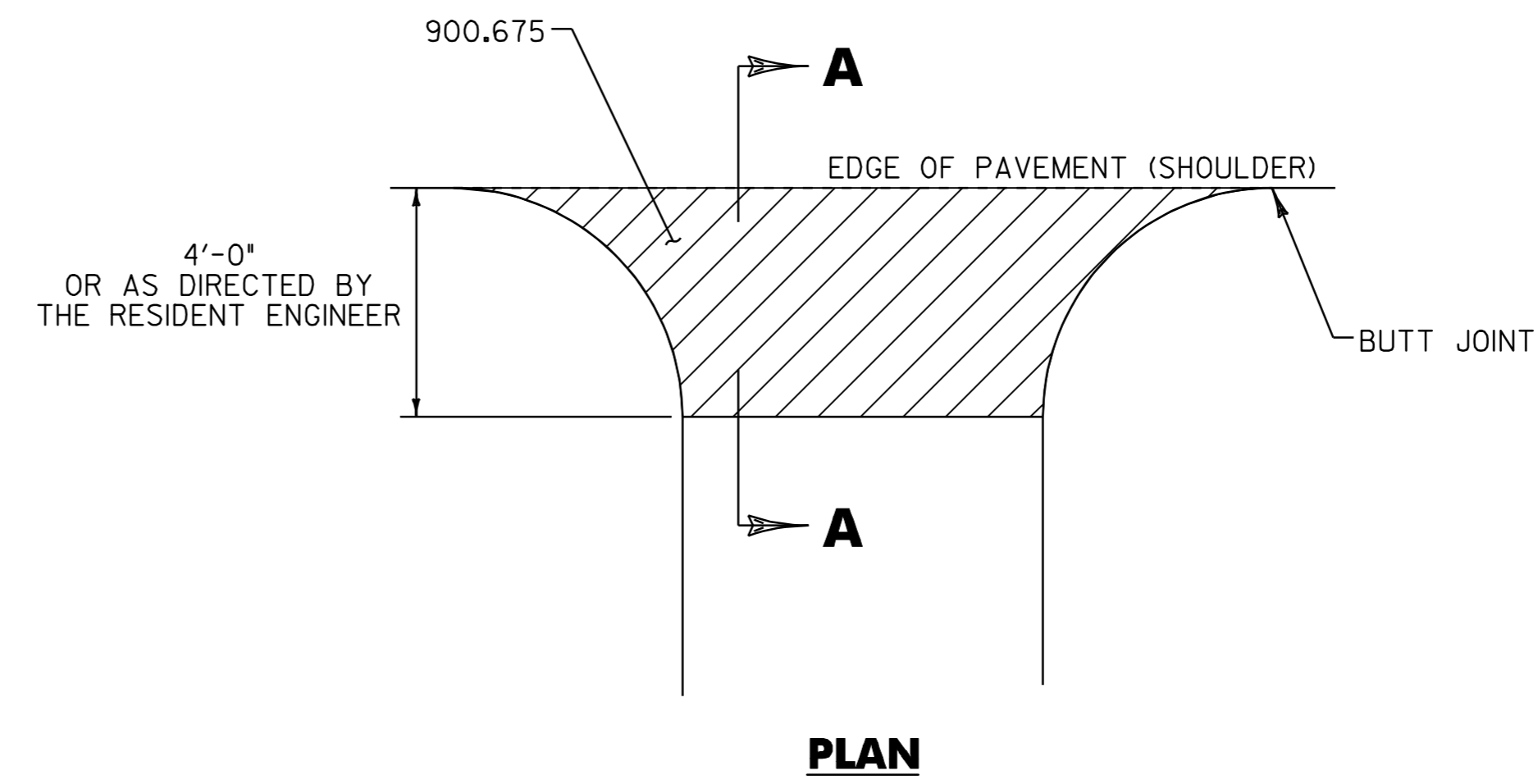
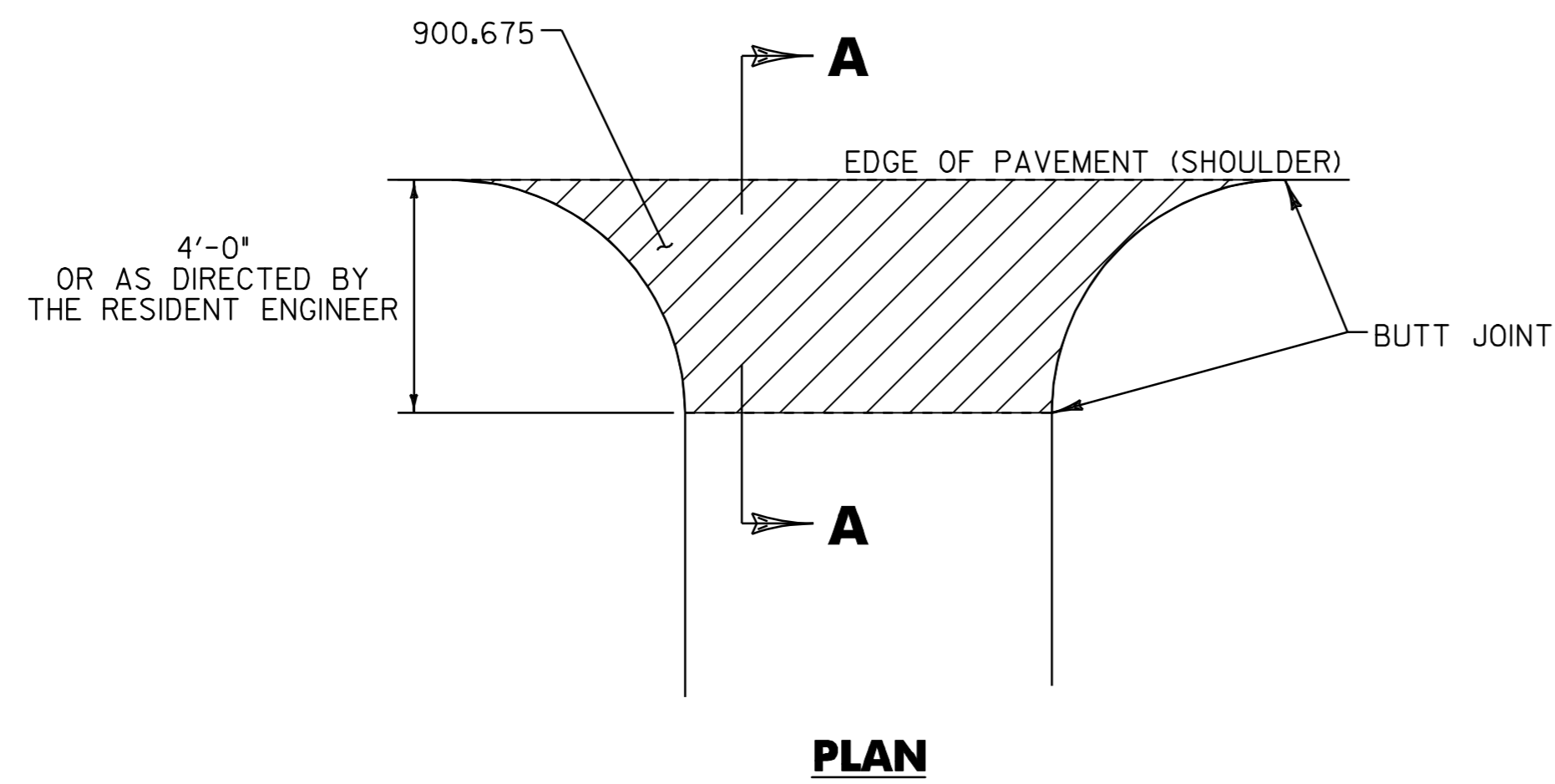
LOCATION			GUARDRAIL												MISCELLANEOUS				REMARKS	
BEGIN STATION	END STATION	POS.	621.20	621.205	621.21	621.50	621.51	621.60	621.70	621.71	621.76	621.77	621.79	621.80	621.81	203.15	203.30	203.40		601.0915
			S.B. GR. GALV. LF	S.B. GR. GALV. W/ 8 FT POSTS LF	HD S.B. G.R. GALV. LF	MTS, FLARED EA	MTS, TANGENT EA	ANCHOR FOR S.B. RAIL EA	G.R. APP. SECTION GALV. TYPE I EACH	G.R. APP. SECTION GALV. TYPE II EACH	REPLACE G.R. POST ASSEMBLY EACH	REPLACE G.R. BEAM UNIT EACH	ADJUST HEIGHT OF G.R. LF	REMOVAL & DISPOSAL OF GUARDRAIL LF	REMOVAL & DISPOSAL OF GUIDE POSTS EACH	COMMON EXCAVATION CY	EARTH BORROW CY	SHOULDER BERM REMOVAL LF		18" CPEP LF
VT ROUTE 25																				
TOPSHAM																				
240+70	240+86	LT														0.4				CONSTRUCT BITUMINOUS CONCRETE GUTTER (4'-6" WIDE)
242+11	245+86	RT														9.3				CONSTRUCT BITUMINOUS CONCRETE GUTTER (4' WIDE)
259+88	261+96	RT														3.9				CONSTRUCT BITUMINOUS CONCRETE GUTTER (3' WIDE)
260+65	261+65	RT	12.5			1	1							91			50			INSTALL M.T.S., FLARED @ 260+65, RT; INSTALL M.T.S., TANGENT @ 261+15, RT
261+16	261+23	RT														1.3				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
262+82	269+60	RT																678		RETAIN EXISTING GUARD RAIL
267+27		RT														1.9				CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER
268+83		RT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
269+82	271+94	RT	137.5		73.25			2						152.3						WRAP GUARD RAIL TO MEET EXISTING RAIL @ MILL ROAD; SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR @ 269+82 AND 271+94, RT
270+85		RT														1.9				CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER
271+23	272+97.3	LT	37.5		71.25	1		1						83.3			25			INSTALL ANCHOR FOR HD S.B. RAIL @ 271+23, LT; INSTALL M.T.S., FLARED @ 272+60.13, LT
273+55	294+58	LT	1658.1	329.4	73.75	1		1						2081.3			25			INSTALL ANCHOR FOR S.B. RAIL @ 273+55, LT; INSTALL M.T.S., FLARED @ 294+16.13, LT
273+70	275+09.88	RT	50		50	1		1						37.3			25	20		INSTALL ANCHOR FOR S.B. RAIL @ 273+70, RT; INSTALL M.T.S., FLARED @ 274+72.38, RT CONSTRUCT DRAINAGE AT M.T.S. STA. 274+72.38, SEE GUARDRAIL DETAIL SHEET
280+29		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
280+82		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
280+91		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
298+25	302+03	LT	262.5		65	1		1						316			25			INSTALL M.T.S., FLARED @ 298+27; INSTALL ANCHOR FOR S.B. RAIL @ 302+03, LT
300+14	310+49	RT	600	337.5	65			2						984						INSTALL ANCHOR FOR S.B. RAIL @ 300+14 AND 310+43.5, RT
302+07		RT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
310+83	319+97.5	RT	912.5					2						845						INSTALL ANCHOR FOR S.B. RAIL @ 310+85 AND 319+97.5, RT
318+34		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
334+49		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
ORANGE																				
0+92.5	9+17.5	RT	750			2								397			50			INSTALL M.T.S., FLARED @ 0+92.5 AND 8+80, RT
5+83	7+01	LT														21.9				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
7+90	8+60	LT														13				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
13+84	RTE 302	RT																169		RETAIN EXISTING GUARD RAIL
14+39	RTE 302	LT																250		RETAIN EXISTING GUARD RAIL
SHEET 1 SUBTOTALS:			5075	425	320.75	22	-	7	-	-	55	28	345	2951	23	22.5	550	1134	20	
SHEET 3 SUBTOTALS:			5102.5	1152.5	147.5	37	-	1	1	3	-	-	-	2971	-	33.1	925	1218	-	
SHEET 5 SUBTOTALS:			4410.6	666.9	398.25	7	1	10	-	-	-	-	-	4987.2	-	61.3	200	1097	20	
ROUNDINGS:			11.9	5.6	8.5	-	-	-	-	-	-	-	-	-	-	3.1	-	1	-	
TOTALS:			14600	2250	875	66	1	18	1	3	55	28	345	10909	23	120	1675	3450	40	

ITEM DETAIL SUMMARY SHEET #5	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: SIP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
DESIGNED BY: STANTEC	DRAWN BY: STANTEC
CHECKED BY: JLL	
IPARM FILE: p99b178idss05.i	SHEET 13 OF 84

ITEM DETAIL SUMMARY SHEET 6

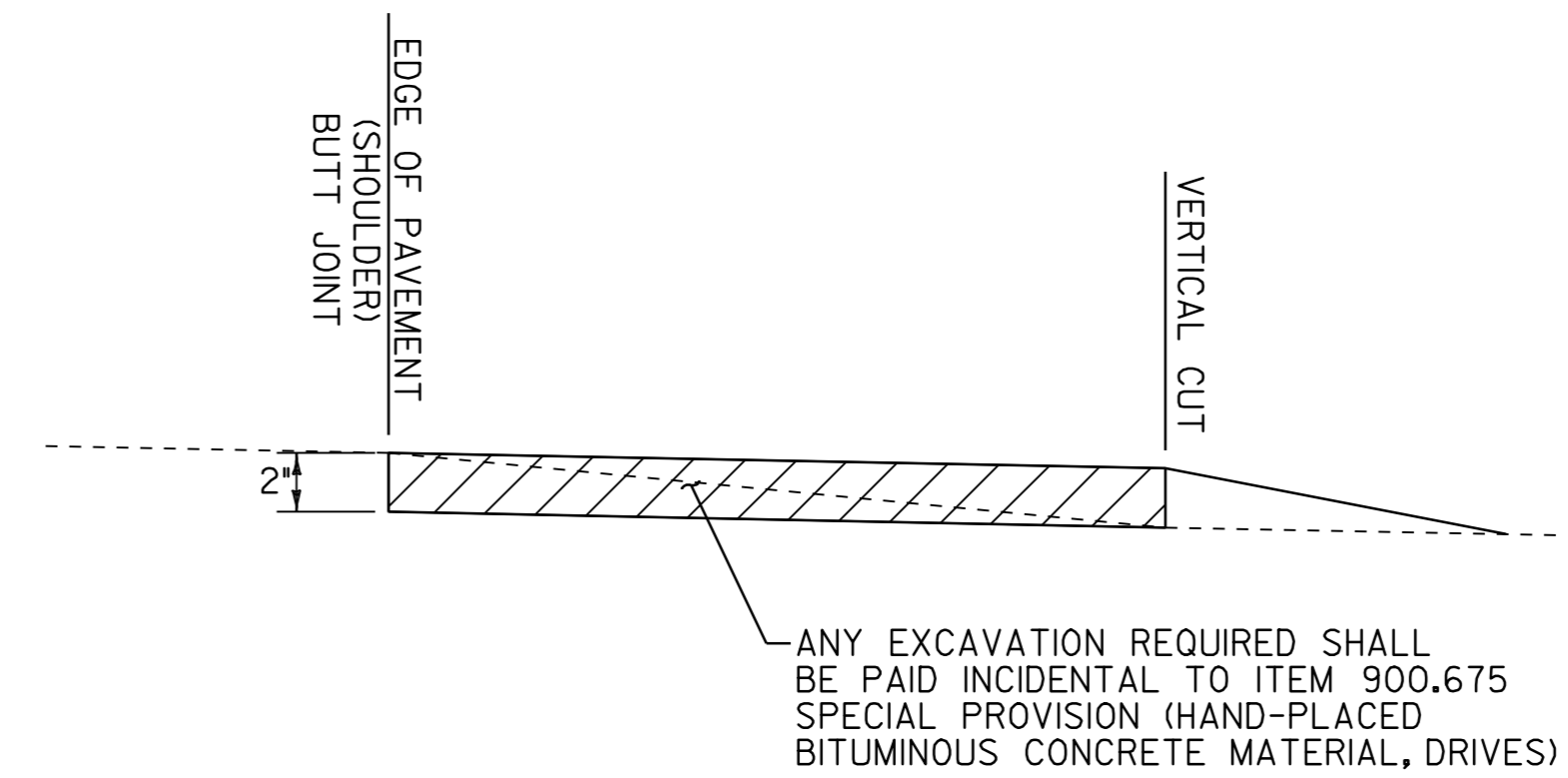
LOCATION			MISCELLANEOUS													REMARKS			
BEGIN STATION	END STATION	POS.	604.40	604.412	604.415	604.418	613.10	616.35	616.47	619.17	649.31	653.20	676.10	676.12					
			CHANGE ELEV OF DI, CB OR MH EA	REHAB DI, CB, OR MH, CLASS I EA	REHAB DI, CB, OR MH, CLASS II EA	REHAB DI, CB, OR MH, CLASS III EA	STONE FILL, TYPE I CY	TREATED TIMBER CURB LF	BIT. CONC. GUTTERS AND TRAFFIC ISLANDS TON	YIELDING MARKER POSTS EACH	GEOTEXTILE UNDER STONE FILL SY	TEMP. EROSION MATTING SY	DELINEATOR WITH STEEL POST EACH	REMOVAL OF EXISTING DELINEATOR EACH					
VT ROUTE 25 TOPSHAM																			
240+70	240+86	LT							0.8										CONSTRUCT BITUMINOUS CONCRETE GUTTER (4'-6" WIDE)
242+11	245+86	RT							18.6										CONSTRUCT BITUMINOUS CONCRETE GUTTER (4' WIDE)
259+88	261+96	RT							7.8										CONSTRUCT BITUMINOUS CONCRETE GUTTER (3' WIDE)
260+65	261+65	RT										50	2	2					INSTALL M.T.S., FLARED @ 260+65, RT; INSTALL M.T.S., TANGENT @ 261+15, RT
261+16	261+23	RT					1.3				8								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
262+82	269+60	RT																	RETAIN EXISTING GUARD RAIL
267+27		RT					1.9				8.3								CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER
268+83		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
269+82	271+94	RT											2	2					WRAP GUARD RAIL TO MEET EXISTING RAIL @ MILL ROAD; SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR @ 269+82 AND 271+94, RT
270+85		RT					1.9				8.3								CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER
271+23	272+97.6	LT										25	2	2					INSTALL ANCHOR FOR HD S.B. RAIL @ 271+23, LT; INSTALL M.T.S., FLARED @ 272+60.13, LT
273+55	294+58	LT										25	2	2					INSTALL ANCHOR FOR S.B. RAIL @ 273+55, LT; INSTALL M.T.S., FLARED @ 294+16.13, LT
273+70	275+09.88	RT										25	2	2					INSTALL ANCHOR FOR S.B. RAIL @ 273+70, RT; INSTALL M.T.S., FLARED @ 274+72.38, RT
280+29		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
280+82		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
280+91		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
298+25	302+03	LT										25	2	2					INSTALL M.T.S., FLARED @ 298+27; INSTALL ANCHOR FOR S.B. RAIL @ 302+03, LT
300+14	310+49	RT						270					2	2					INSTALL ANCHOR FOR S.B. RAIL @ 300+14 AND 310+43.5, RT
302+07		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
310+83	319+97.5	RT																	INSTALL ANCHOR FOR S.B. RAIL @ 310+85 AND 319+97.5, RT
318+34		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
334+49		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
ORANGE																			
1+30	7+80	RT										50	2	2					INSTALL M.T.S., FLARED @ 0+92.5 AND 8+80, RT
5+83	7+01	LT					21.9				108								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
7+90	8+60	LT					13				65								ITEMS TO BE USED WITH SLOPE EROSION REPAIR
13+84	RTE 302	RT																	RETAIN EXISTING GUARD RAIL
14+39	RTE 302	LT																	RETAIN EXISTING GUARD RAIL
SHEET 2 SUBTOTALS:			1	4	4	4	22.5	75	-	240	133.4	550	28	18					
SHEET 4 SUBTOTALS:			-	-	-	-	33.1	-	-	-	173.3	925	38	23					
SHEET 6 SUBTOTALS:			-	-	-	-	47.7	270	27.2	-	248	200	16	16					
ROUNDINGS:			-	-	-	-	5	0.8	-	-	-	-	-	-					
TOTALS:			1	4	4	4	103.3	350	28	240	554.7	1675	82	57					

ITEM DETAIL SUMMARY SHEET #6	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: SIP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANIEC
DESIGNED BY: STANIEC	CHECKED BY: JLL
IPARM FILE: p99b178ids06.i	SHEET 14 OF 84



SECTION

HANDWORK DETAILS FOR PAVED DRIVES



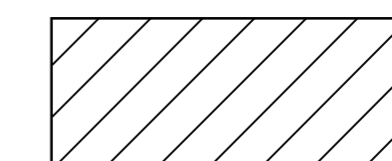
SECTION A-A

HANDWORK DETAILS FOR GRAVEL DRIVES

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, AND FOR FILLING JOINTS, CRACKS AND HOLES WILL NOT BE PAID DIRECTLY BUT WILL BE INCLUDED IN THE UNIT BID PRICE 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 INCLUDED IN THE UNIT BID PRICE FOR ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

LEGEND



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

NOT TO SCALE

**DRIVE
DETAIL
SHEET #1**



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178ds01.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	15 OF 84

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
BRADFORD		
337+43	LT	13
340+01	RT	25
344+54	LT	30
346+95	LT	20
349+02	RT	16
355+48	RT	5
360+95	RT	33
361+86	LT	17
363+90	LT	62
366+00	LT	65
370+53	RT	13
CORINTH		
0+59	LT	8
2+16	LT	22
3+21	RT	25
3+96	LT	13
12+64	LT	22
19+04	LT	16
25+70	RT	19
32+43	RT	22
38+74	LT	23
48+47	RT	17
50+01	LT	10
69+08	RT	48
71+25	RT	9
79+95	RT	24
79+96	LT	26
83+40	RT	179
96+15	RT	8
97+39	RT	10
98+98	LT	11
100+61	LT	10
111+04	LT	23
111+71	RT	11
112+50	LT	40
112+86	RT	12
113+38	RT	19
113+92	RT	19
115+37	LT	65
119+18	LT	26
119+20	RT	16
120+34	RT	5
SUBTOTAL		1057

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
CORINTH (CONT.)		
123+94	LT	22
125+24	LT	17
133+79	RT	17
134+41	LT	38
135+27	RT	107
139+17	LT	13
140+08	RT	9
143+30	LT	11
144+54	LT	13
145+88	LT	13
147+83	RT	13
150+86	LT	16
157+73	LT	12
158+68	RT	23
159+24	RT	13
162+15	RT	8
169+01	LT	13
169+37	RT	55
173+11	LT	19
173+91	LT	23
177+38	RT	11
178+93	LT	24
182+38	RT	18
182+45	LT	36
184+68	RT	11
185+80	RT	12
189+83	RT	8
191+81	RT	16
195+19	RT	12
201+95	RT	10
202+20	LT	21
203+69	RT	13
204+12	LT	12
206+50	RT	17
TOPSHAM		
0+85	LT	9
5+43	RT	38
11+22	RT	26
13+21	RT	16
16+27	RT	52
20+63	RT	17
22+34	RT	11
SUBTOTAL		845

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
TOPSHAM (CONT.)		
26+12	RT	12
26+23	LT	12
27+28	RT	16
32+71	LT	14
33+93	RT	12
41+14	RT	13
43+21	LT	12
49+89	LT	66
49+95	RT	32
56+66	RT	16
66+09	RT	20
66+17	LT	8
68+40	RT	12
69+96	LT	15
70+91	RT	13
71+92	LT	17
72+53	LT	13
73+16	RT	16
76+09	LT	114
76+39	RT	9
78+43	LT	38
79+82	LT	6
80+46	RT	18
82+91	RT	7
88+64	RT	8
89+42	RT	7
90+99	LT	5
92+08	RT	10
92+27	LT	20
93+44	RT	8
98+38	RT	10
99+34	RT	7
102+84	LT	11
103+49	RT	13
109+05	LT	11
111+44	LT	28
111+69	RT	14
114+47	RT	8
116+28	RT	16
117+95	RT	10
119+17	RT	12
122+62	LT	18
SUBTOTAL		727

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
TOPSHAM (CONT.)		
122+71	RT	27
126+31	RT	7
127+26	LT	12
131+30	LT	21
133+79	LT	11
135+19	LT	24
136+24	LT	23
136+68	RT	7
137+90	LT	25
144+23	LT	19
144+36	RT	15
147+72	LT	17
148+59	RT	7
152+69	RT	4
154+11	RT	12
154+67	RT	13
157+33	RT	13
161+73	LT	12
165+73	LT	23
171+40	LT	10
175+05	LT	18
176+95	RT	10
178+85	RT	11
179+94	RT	6
180+51	LT	6
181+91	RT	18
198+37	LT	7
203+13	RT	8
204+38	RT	9
204+57	LT	8
208+70	RT	9
209+76	LT	6
210+28	RT	11
216+85	LT	9
218+77	LT	8
221+39	LT	11
222+35	LT	16
224+61	LT	9
225+26	LT	12
228+77	LT	11
232+41	LT	11
235+45	RT	7
SUBTOTAL		523

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
TOPSHAM (CONT.)		
236+17	RT	5
238+67	LT	12
239+00	RT	9
239+56	RT	9
240+46	LT	6
240+47	RT	6
240+92	RT	12
241+70	LT	14
249+24	LT	18
249+63	RT	13
250+62	LT	19
252+59	RT	149
255+50	RT	10
257+44	RT	26
258+50	RT	8
259+45	LT	25
260+99	RT	5
261+79	RT	8
262+41	LT	9
264+99	LT	12
267+27	LT	8
269+28	LT	12
270+27	LT	20
272+79	RT	14
273+39	LT	10
279+84	RT	17
289+93	RT	24
317+83	LT	13
321+06	LT	14
327+09	LT	22
334+01	LT	20
334+12	RT	12
334+99	LT	14
336+52	RT	12
336+69	LT	12
342+66	LT	8
ORANGE		
2+85	LT	10
5+17	LT	10
7+14	LT	11
10+88	LT	18
SUBTOTAL		656
COLUMN 1		1057
COLUMN 2		845
COLUMN 3		727
COLUMN 4		523
COLUMN 5		656
SUBTOTAL		3808
ROUNDING		42
TOTAL		3850

NOT TO SCALE

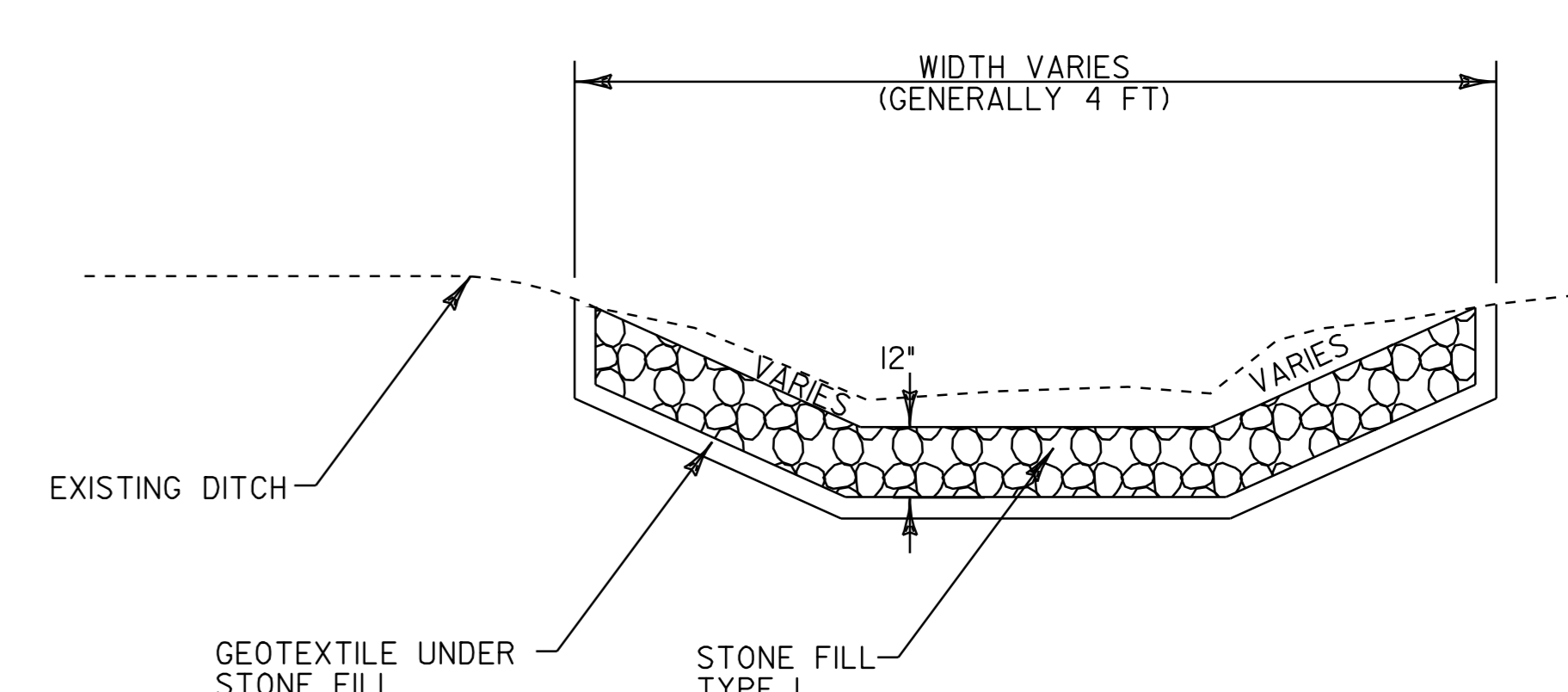
**DRIVE
DETAIL
SHEET #2**



PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(I)
FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL DRAWN BY: STANTEC
DESIGNED BY: STANTEC CHECKED BY: JLL
IPARM FILE: p99b178ds02.i SHEET 16 OF 84

NOTE: FOR DRIVE DETAILS SEE DRIVE DETAIL SHEET 1

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS	LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			STONE FILL TYP. I	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.		SITE	STATION	STATION	POS.	PERCENT GRADE			STONE FILL TYP. I	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
				0-1	1-2.5	2.5-10									0-1	1-2.5	2.5-10				
				CY	SY	SY									CY	SY	SY				
VT ROUTE 25																					
CORINTH																					
1	0+00	5+28	LT		528																
2	5+28	10+56	LT	528																	
3	12+14	14+78	RT			264	39	176													
4	52+80	73+92	LT		2112																
5	73+92	79+20	LT			528	78	352													
6	79+20	84+48	LT		528																
7	84+48	89+76	LT	528																	
8	89+76	95+04	LT		528																
9	95+04	105+60	LT		1056																
10	115+63	116+16	LT		53																
11	116+16	121+44	LT			528	78	352													
12	121+44	124+08	LT		264																
13	147+84	168+96	LT	2112																	
14	190+08	200+64	LT			1056	156	704													
TOPSHAM																					
1	5+28	10+56	RT		528																
2	15+84	21+12	LT		528																
3	72+86	90+82	RT	1796																	
4	105+60	116+16	RT		1056																
5	250+80	253+44	LT		264																
6	333+17	342+67	LT		950																
ORANGE																					
1	0+00	5+28	LT	528																	
2	5+28	10+56	LT			528	78	352													
3	10+56	14+78	LT		422																
PROJECT SUBTOTALS (EST.)				5492	8817	2904	429	1936	3920												
ROUNDING				-	-	-	-	-	-												
PROJECT TOTALS				5492	8817	2904	429	1936	3920												



DITCH DETAIL

- NOTES:
- PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGH PROJECT, SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).
 - ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING, SEED, AND STONE FILL TYPE I HAVE BEEN INCLUDED. DITCHES WITH A GRADE LESS THAN 1 PERCENT SHALL BE SEEDDED. TEMPORARY EROSION MATTING SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 1 AND 2.5 PERCENT. STONE FILL, TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2.5 AND 10 PERCENT OR AS DIRECTED BY THE VAOT RESIDENT ENGINEER.

NOT TO SCALE

DITCH CLEANING DETAIL SHEET

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: S1P 2213(1)
FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL DRAWN BY: STANTEC
DESIGNED BY: STANTEC CHECKED BY: JLL
IPARM FILE: p99b178dcs.i SHEET 17 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 336+81.5 TO 338+50, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 336+44 TO 336+81.5, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 336+44 TO 338+50, RT

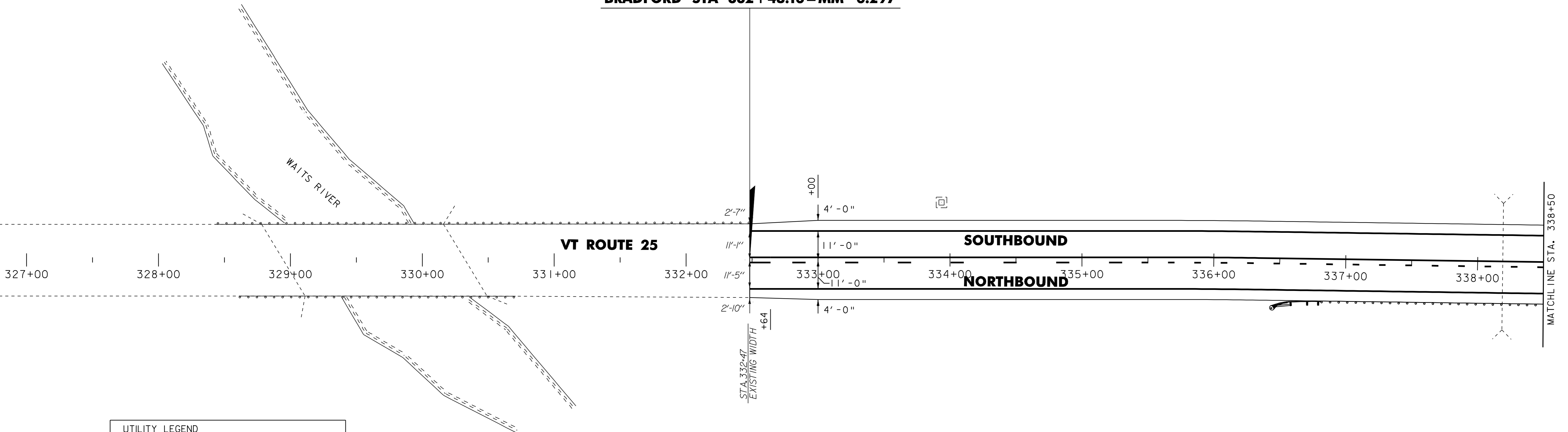
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 332+48 TO 338+50, SOLID LT & RT

~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 332+48 TO 332+64, SOLID LT & RT
STA. 332+64 TO 338+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 332+48 TO 338+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 332+48 TO 332+64, SOLID LT & RT
STA. 332+64 TO 338+50, SOLID LT, DASHED RT

**BEGIN STP 2213(1) VT ROUTE 25
BRADFORD STA 332+48.16=MM 6.297**



UTILITY LEGEND	
	= EXISTING HYDRANT
	= EXISTING DI
	= EXISTING MANHOLE
	= EXISTING TELEPHONE MANHOLE
	= EXISTING ELECTRIC MANHOLE
	= EXISTING SEWER MANHOLE
	= EXISTING WATER SHUTOFF
	= EXISTING GAS SHUTOFF
	= EXISTING MAILBOX

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

NOT TO SCALE

NOTE:
ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.

PROJECT LAYOUT SHEET #1	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178IO1.i	SHEET 18 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 338+50 TO 344+44, RT
 56.5

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. ~~344+44~~ TO ~~344+81.5~~, RT
 344+56.5 344+94

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 338+50 TO 344+83, RT

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' POSTS
 STA 338+81.5 TO 343+81.5 RT (225')

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 338+50 TO 349+50, SOLID LT & RT

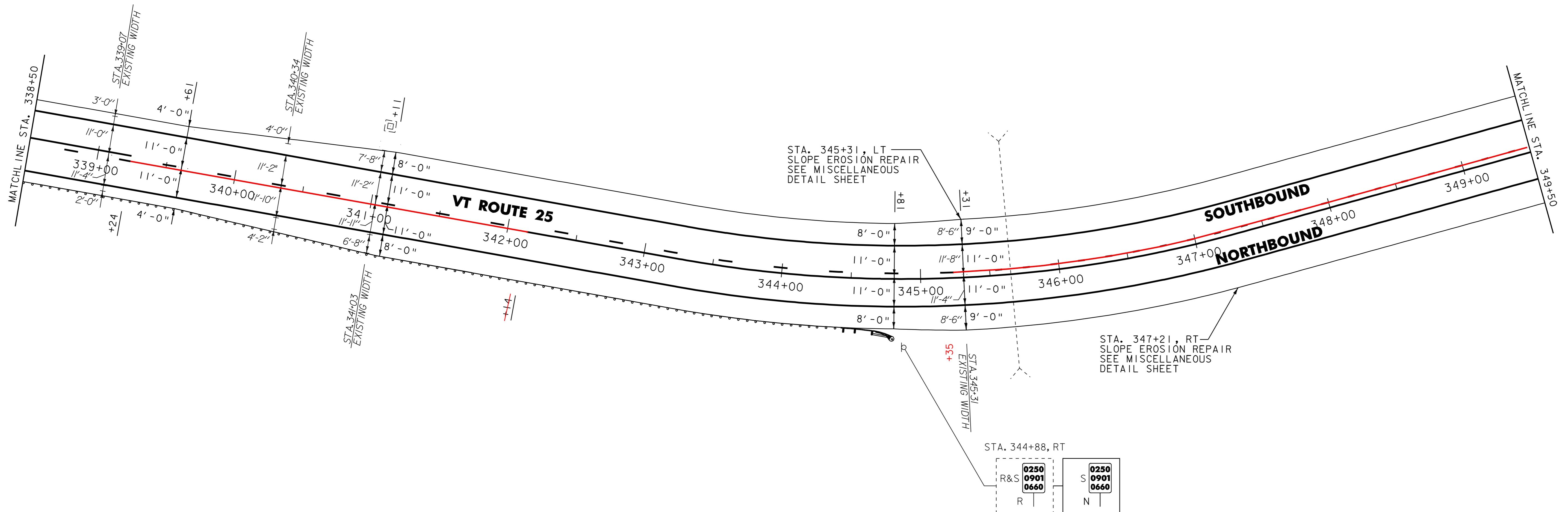
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 338+50 TO 339+24, SOLID LT & DASHED RT
 STA. 339+24 TO 342+14, DASHED LT & SOLID RT
 STA. 342+14 TO 349+50, DASHED LT, SOLID RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 338+50 TO 349+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 338+50 TO 339+24, SOLID LT & DASHED RT
 STA. 339+24 TO ~~342+14~~, DASHED LT & SOLID RT
 STA. ~~342+14~~ TO 349+50, DASHED LT, SOLID RT
 345+20 345+20 SOLID

675.50 REMOVING SIGNS
 AS SHOWN - I

675.60 ERECTING SALVAGED SIGNS
 AS SHOWN - I



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #2



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 19 OF 84
IPARM FILE: p99b178IO2.i		

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~

STA. 349+50 TO 360+50, SOLID LT & RT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS OR RADII AT SIDE ROADS)
STA. 352+32, DOUBLE SOLID LT (TAPLIN HILL RD)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~

STA. 349+50 TO 349+54, DASHED LT, SOLID RT
STA. 349+54 TO 360+50, SOLID LT & RT
(ALL LINES WILL INCLUDE @ BREAKS AT SIDE ROADS)
STA. 352+32, DOUBLE SOLID LT (TAPLIN HILL RD)

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

STA. 349+50 TO 360+50, SOLID LT & RT
(ALL LINES WILL INCLUDE EDGELINE BREAKS OR RADII AT SIDE ROADS)
STA. 352+32, DOUBLE SOLID LT (TAPLIN HILL RD)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

STA. 349+50 TO 349+54, DASHED LT, SOLID RT
STA. 349+54 TO 360+50, SOLID LT & RT
(ALL LINES WILL INCLUDE @ BREAKS AT SIDE ROADS)
STA. 352+32, DOUBLE SOLID LT (TAPLIN HILL RD)

646.26

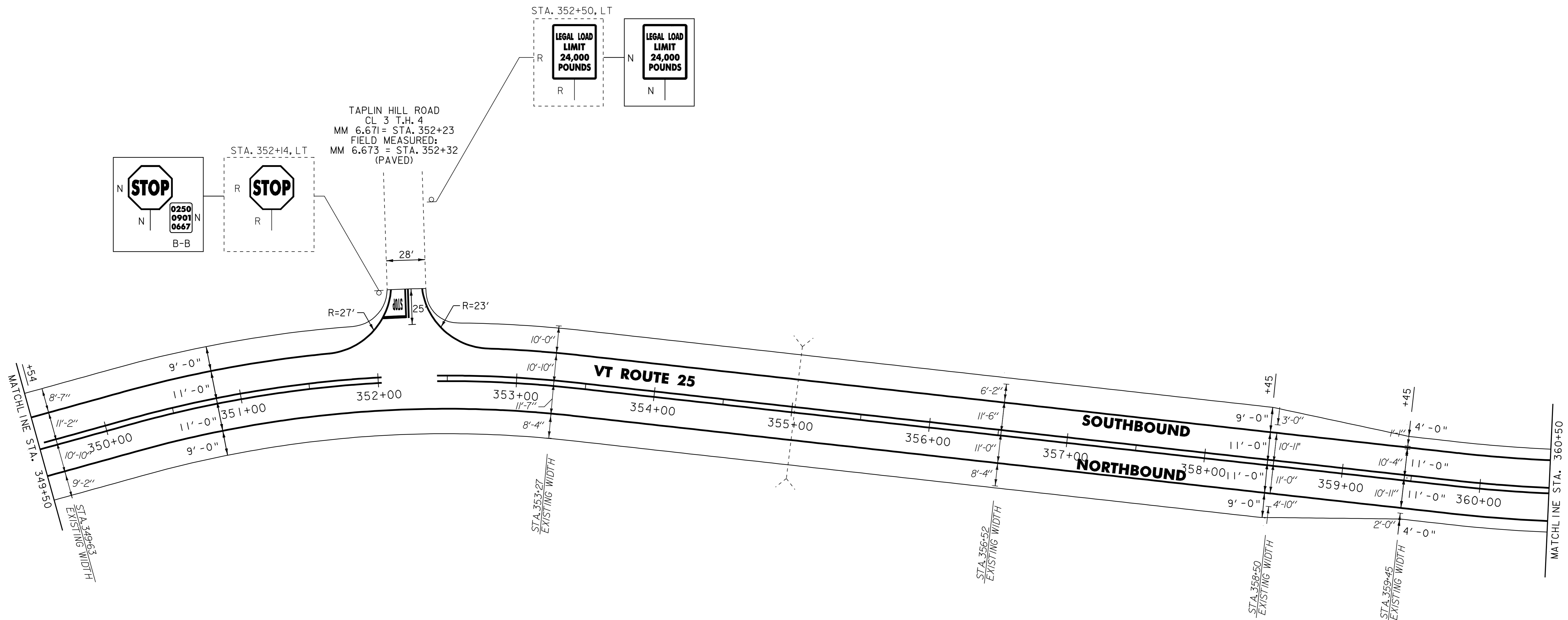
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 352+32, LT (TAPLIN HILL RD)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 352+32, LT - "STOP"

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 352+32, LT (TAPLIN HILL RD)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
STA. 352+32, LT - "STOP"

675.50 REMOVING SIGNS
AS SHOWN - 2



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #3



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: SIP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 20 OF 84
IPARM FILE: p99b178IO3.i		

621.205
~~621.20~~ STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' POSTS
 BRADFORD STA. 362+82.5 TO 365+82.5, RT

646.20
~~646.402~~ DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
 BRADFORD STA. 360+50 TO CORINTH STA. 4+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 BRADFORD STA. 360+50 TO CORINTH STA. 4+50, SOLID LT & RT

675.50 REMOVING SIGNS
 AS SHOWN - 1

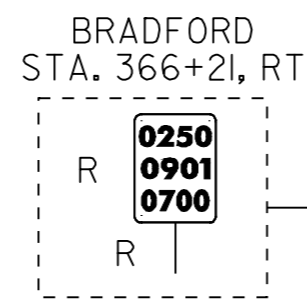
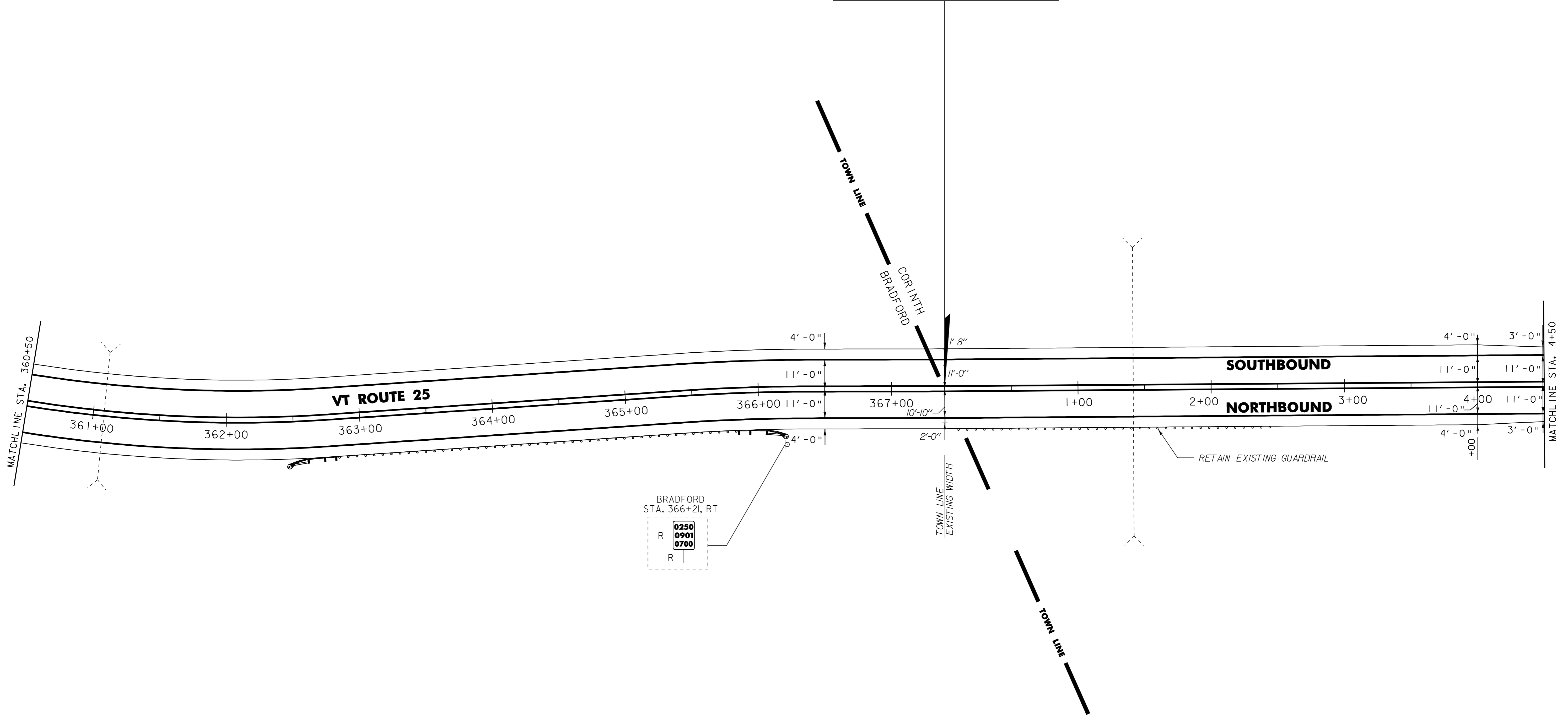
621.50 MANUFACTURED TERMINAL SECTION, FLARED
 BRADFORD STA. 362+45 TO 362+82.5, RT
 BRADFORD STA. 365+82.5 TO 366+20, RT

646.21
~~646.412~~ DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
 BRADFORD STA. 360+50 TO CORINTH STA. 4+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 BRADFORD STA. 360+50 TO CORINTH STA. 4+50, SOLID LT & RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 BRADFORD STA. 362+93 TO 366+07, RT

**BRADFORD STA 367+40 BK=
 CORINTH STA 0+00 AHD**



- NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #4	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(I)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178IO4.i	SHEET 21 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 11+66.5 TO 16+50, RT

14+16.5 TO 16+50 RT
621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 11+29 TO 11+66.5, RT

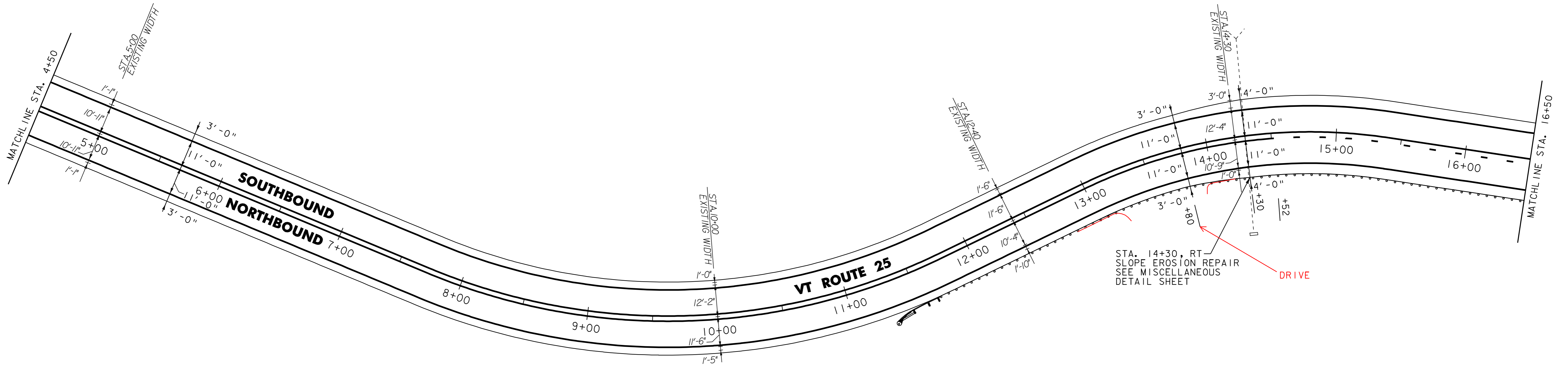
646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 4+50 TO 16+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 4+50 TO 14+52, SOLID LT & RT
STA. 14+52 TO 16+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 4+50 TO 16+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 4+50 TO 14+52, SOLID LT & RT
STA. 14+52 TO 16+50, SOLID LT, DASHED RT

621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
STA 13+06, RT
STA 14+16.5, RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #5



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 22 OF 84
IPARM FILE: p99b178IO5.i		

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 16+50 TO 18+41.5, RT
 STA. 21+37.5 TO 25+12.5, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 18+41.5 TO 18+79, RT
 STA. 21+00 TO 21+37.5, RT
 STA. 25+12.5 TO 25+50, RT

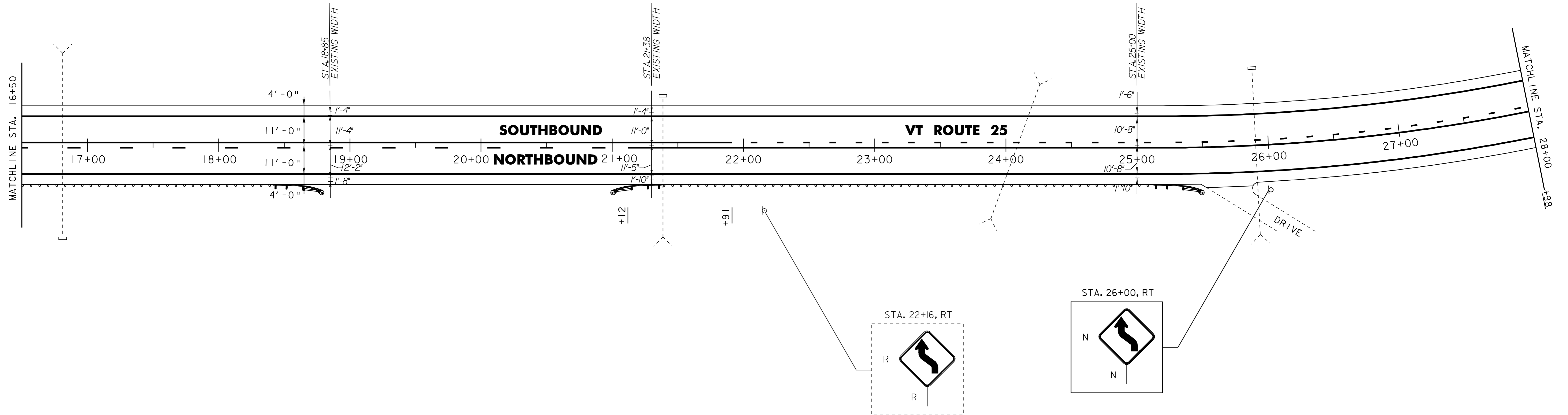
646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 16+50 TO 28+00, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 16+50 TO 21+12, SOLID LT, DASHED RT
 STA. 21+12 TO 21+91, SOLID LT & RT
 STA. 21+91 TO 27+98, DASHED LT, SOLID RT
 STA. 27+98 TO 28+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 16+50 TO 28+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 16+50 TO 21+12, SOLID LT, DASHED RT
 STA. 21+12 TO 21+91, SOLID LT & RT
 STA. 21+91 TO 27+98, DASHED LT, SOLID RT
 STA. 27+98 TO 28+00, SOLID LT & RT

675.50 REMOVING SIGNS
 AS SHOWN - 1



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #6

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 23 OF 84
IPARM FILE: p99b178IO6.i		



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 33+17.5 TO 35+30, RT 40+00
~~STA. 36+42.5 TO 40+00, RT~~

~~621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 35+30 TO 36+42.5, RT~~

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 32+80 TO 33+17.5, RT

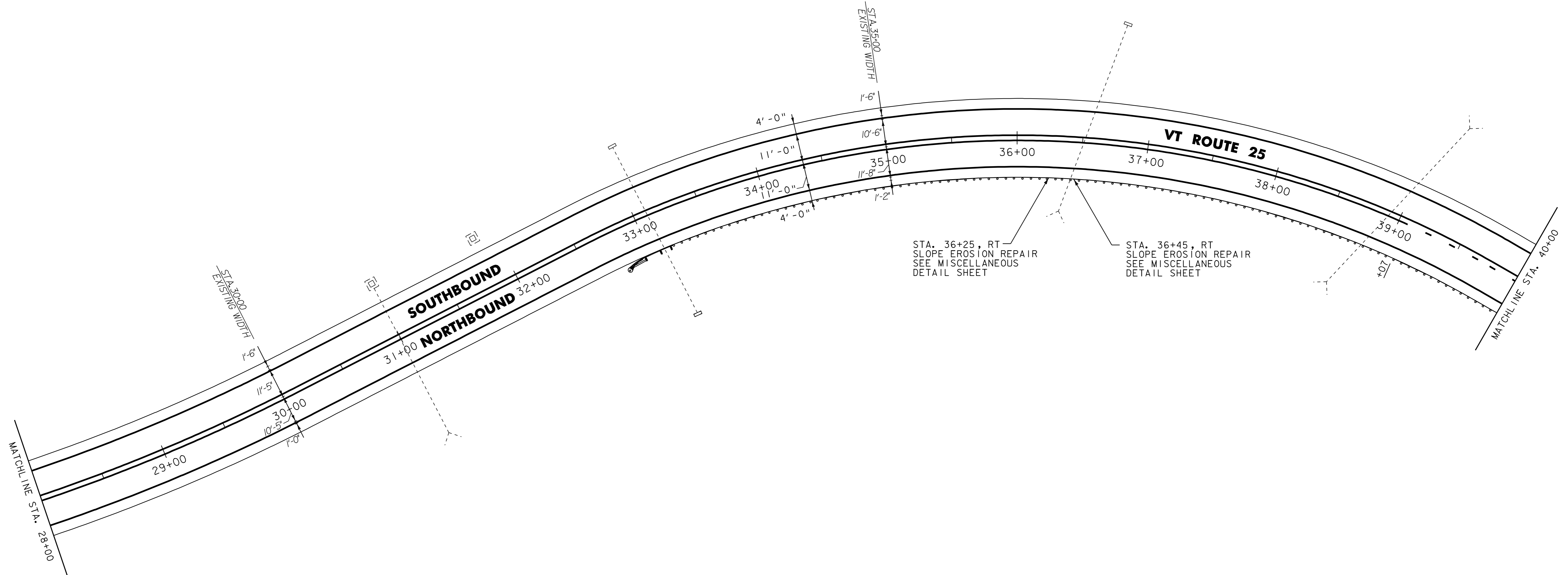
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 32+79 TO 40+00, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
STA. 28+00 TO 40+00, SOLID LT & RT~~

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
STA. 28+00 TO 39+07, SOLID LT & RT
STA. 39+07 TO 40+00, SOLID LT, DASHED RT~~

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 28+00 TO 40+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 28+00 TO 39+07, SOLID LT & RT
STA. 39+07 TO 40+00, SOLID LT, DASHED RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

**PROJECT
LAYOUT
SHEET #7**



PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: STP 2213(I)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178107.i	SHEET 24 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 40+00 TO 41+42.5, RT
 STA. 48+01.5 TO 49+89, LT
 STA. 49+10.5 TO 50+98, RT
~~(LAST 2 SECTIONS WILL BE 16'-
 RADIUS WITH 2 ANCHORS)~~

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 41+42.5 TO 41+80, RT
 STA. 47+64 TO 48+01.5, LT
 STA. 48+73 TO 49+10.5, RT
~~STA. 50+98 TO 51+35.5, RT~~

621.60 ANCHOR FOR STEEL BEAM RAIL
 STA. 49+89, LT (2-EACH)

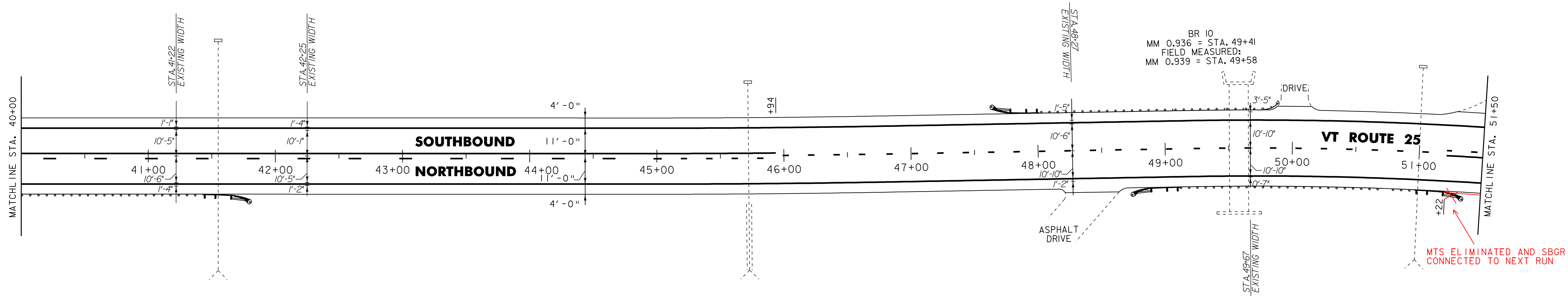
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 40+00 TO 41+46, RT
 STA. 48+73 TO 50+52, RT
 STA. 48+76 TO 49+89, LT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 40+00 TO 51+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 40+00 TO 45+94, SOLID LT, DASHED RT
 STA. 45+94 TO 51+22, DASHED C
 STA. 51+22 TO 51+50, DASHED LT, SOLID RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 40+00 TO 51+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 40+00 TO 45+94, SOLID LT, DASHED RT
 STA. 45+94 TO 51+22, DASHED C
 STA. 51+22 TO 51+50, DASHED LT, SOLID RT



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 52+50 TO 56+00, RT
 51+50

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 51+50 TO 63+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 51+50 TO 63+00, SOLID LT & RT

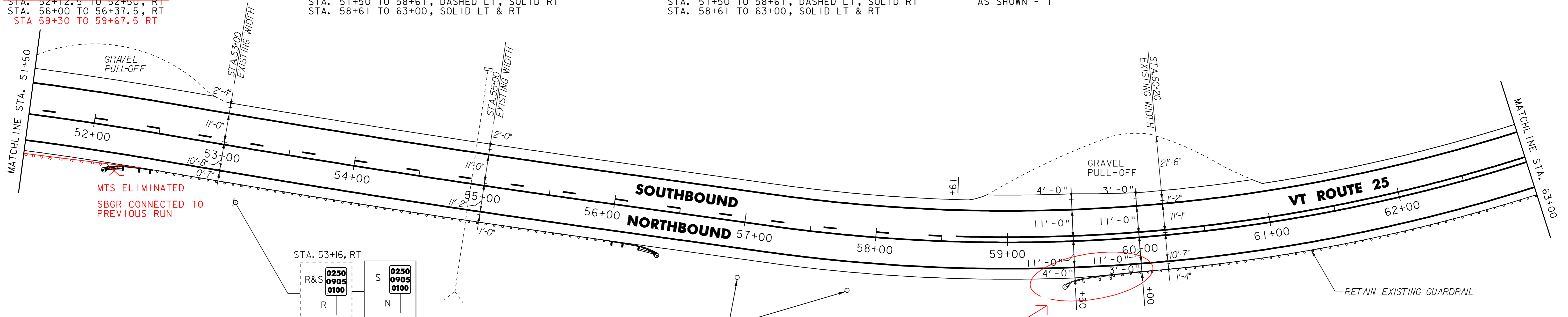
675.50 REMOVING SIGNS
 AS SHOWN - I

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 52+12.5 TO 52+50, RT
 STA. 56+00 TO 56+37.5, RT
 STA. 59+30 TO 59+67.5 RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 51+50 TO 58+61, DASHED LT, SOLID RT
 STA. 58+61 TO 63+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 51+50 TO 58+61, DASHED LT, SOLID RT
 STA. 58+61 TO 63+00, SOLID LT & RT

675.60 ERECTING SALVAGED SIGNS
 AS SHOWN - I



REMOVE EXISTING SIGN POSTS
 (INCIDENTAL TO ITEM 675.50)

- NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1



PROJECT LAYOUT SHEET #8	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(I)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
DESIGNED BY: STANTEC	DRAWN BY: STANTEC
CHECKED BY: JLL	SHEET 25 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 73+15 TO 74+50, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 72+77.5 TO 73+15, RT
STA. 67+87.5 - 68+25, RT

621.81 REMOVAL AND DISPOSAL OF GUIDE POSTS
STA. 73+17 TO 74+50, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 63+00 TO 74+50, SOLID LT & RT
STA. 69+14, DOUBLE SOLID RT (T.H. 1)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 63+00 TO 74+50, SOLID LT & RT
STA. 69+14, DOUBLE SOLID RT (T.H. 1)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 69+14, RT (T.H. 1)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 69+14, RT - "STOP"

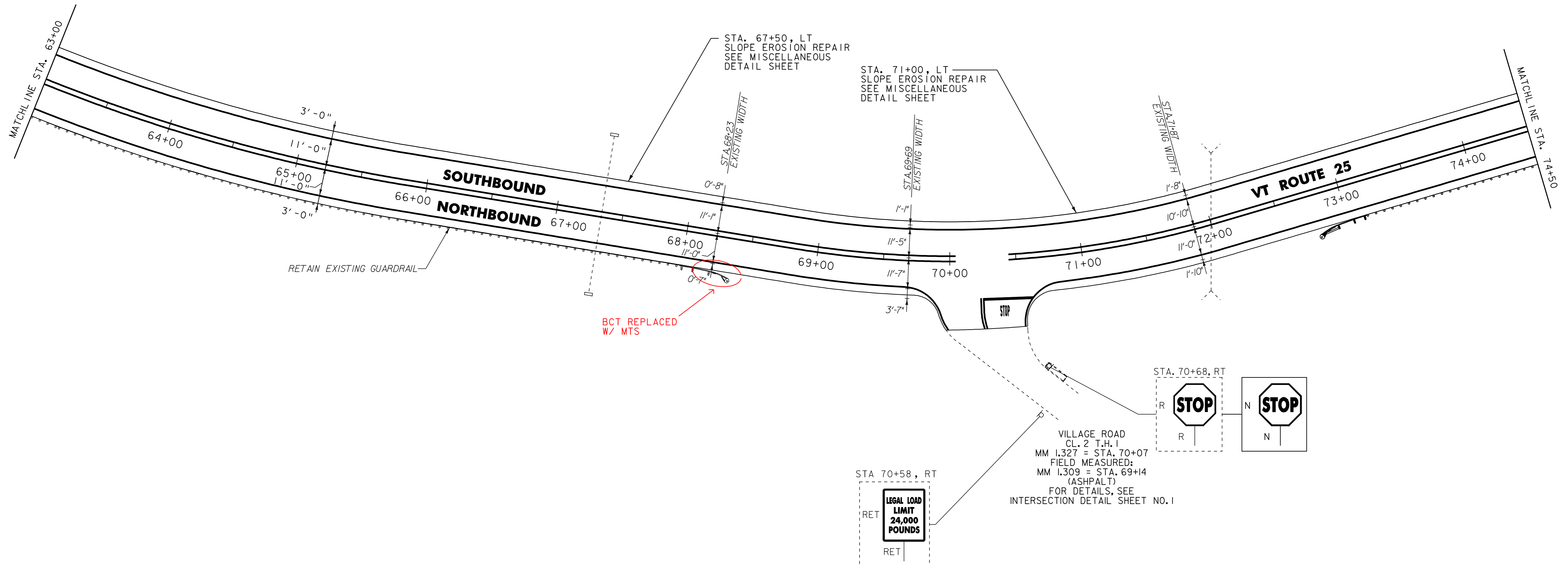
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 63+00 TO 74+50, SOLID LT & RT
STA. 69+14, DOUBLE SOLID RT (T.H. 1)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 63+00 TO 74+50, SOLID LT & RT
STA. 69+14, DOUBLE SOLID RT (T.H. 1)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 69+14, RT (T.H. 1)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
~~STA. 69+14, RT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 1



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #9



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178109.i	SHEET 26 OF 84

601.0915 18" CPEP
 STA. 77+02.5, RT
 (SEE GUARD RAIL DETAIL SHEET)

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 74+50 TO 76+65, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 76+65 TO 77+02.5, RT
 (SEE DRAINAGE AT M.T.S. DETAIL SHEET)

621.81 REMOVAL AND DISPOSAL OF GUIDE POSTS
 STA. 74+50 TO 76+59, RT

~~646.20 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 74+50 TO 86+50, SOLID LT & RT
 STA. 80+00 TO 82+90, DOUBLE SOLID LT (T.H. 28)
 STA. 80+14 DOUBLE SOLID LT (T.H. 28)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 74+50 TO 82+63, SOLID LT & RT
 STA. 82+63 TO 86+50, SOLID LT, DASHED RT
 STA. 80+00 TO 81+75, DOUBLE SOLID LT (T.H. 28)
 STA. 80+14, DOUBLE SOLID LT (T.H. 28)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
 2 - STA. 80+14, LT (T.H. 28)
 STA. 81+62, LT (T.H. 28)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 2 - STA. 80+14, LT - "STOP"
 STA. 81+62, LT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 74+50 TO 86+50, SOLID LT & RT
 STA. 80+00 TO 82+90, DOUBLE SOLID LT (T.H. 28)
 STA. 80+14 DOUBLE SOLID LT (T.H. 28)

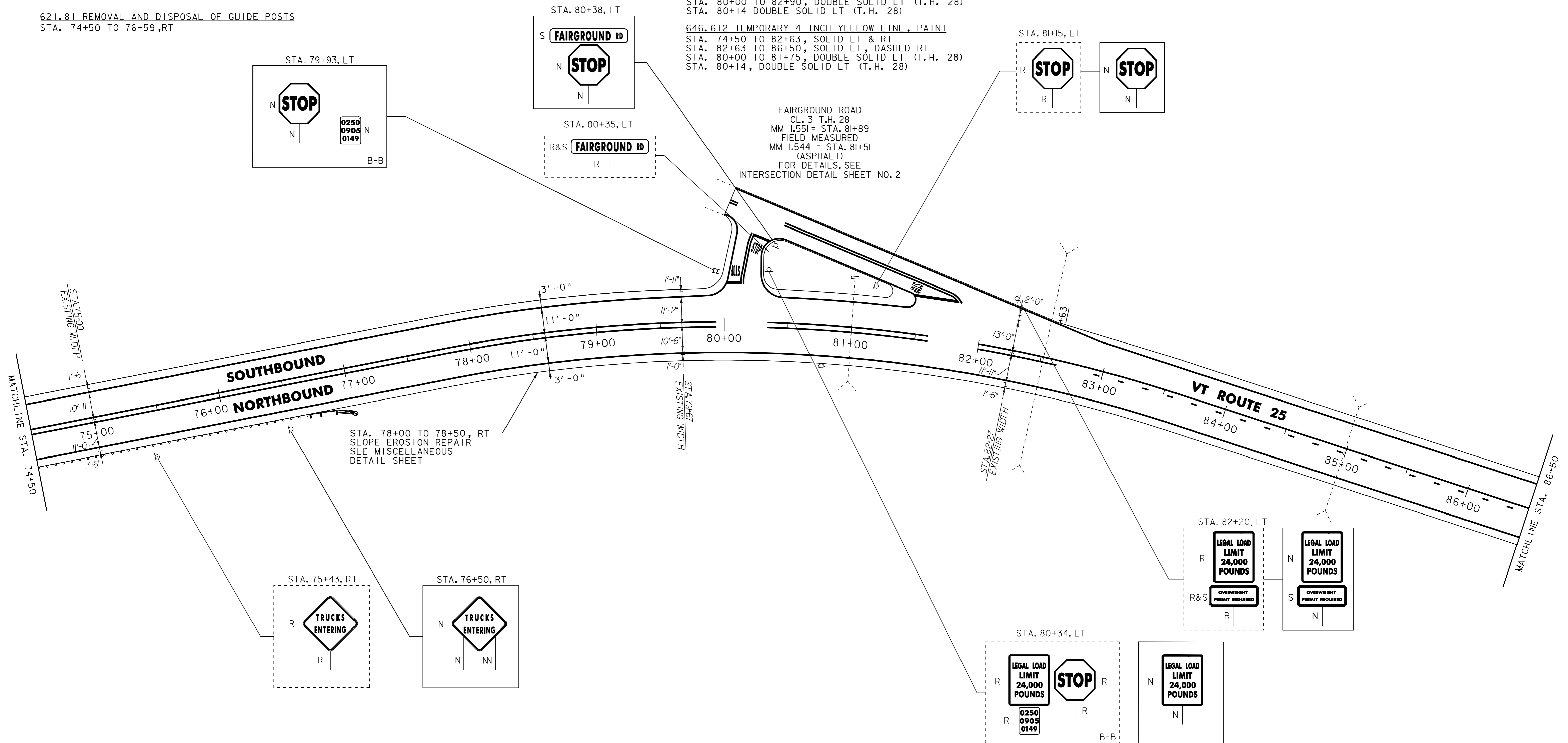
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 74+50 TO 82+63, SOLID LT & RT
 STA. 82+63 TO 86+50, SOLID LT, DASHED RT
 STA. 80+00 TO 81+75, DOUBLE SOLID LT (T.H. 28)
 STA. 80+14, DOUBLE SOLID LT (T.H. 28)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 2 - STA. 80+14, LT (T.H. 28)
 STA. 81+62, LT (T.H. 28)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~2 - STA. 80+14, LT - "STOP"~~
~~STA. 81+62, LT - "STOP"~~

675.50 REMOVING SIGNS
 AS SHOWN - 8

675.60 ERECTING SALVAGED SIGNS
 AS SHOWN - 2



NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #10

PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: STP 2213(I)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178i10.i	SHEET 27 OF 84

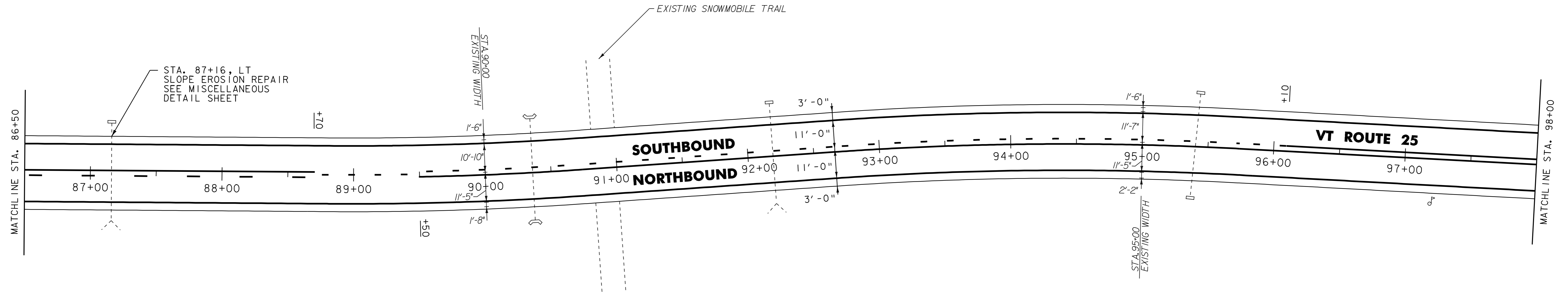


646.20
~~646.402 DURABLE~~ 4 INCH WHITE LINE, THERMOPLASTIC
 STA. 86+50 TO 98+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 86+50 TO 98+00, SOLID LT & RT

646.21
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, THERMOPLASTIC
 STA. 86+50 TO 88+70, SOLID LT, DASHED RT
 STA. 88+70 TO 89+50, DASHED C
 STA. 89+50 TO 96+10, DASHED LT, SOLID RT
 STA. 96+10 TO 98+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 86+50 TO 88+70, SOLID LT, DASHED RT
 STA. 88+70 TO 89+50, DASHED C
 STA. 89+50 TO 96+10, DASHED LT, SOLID RT
 STA. 96+10 TO 98+00, SOLID LT & RT

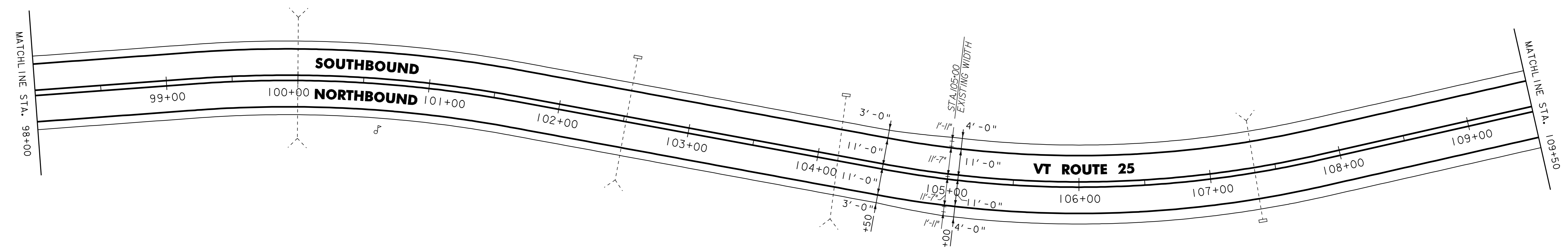


646.20
~~646.402 DURABLE~~ 4 INCH WHITE LINE, THERMOPLASTIC
 STA. 98+00 TO 109+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 98+00 TO 109+50, SOLID LT & RT

646.21
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, THERMOPLASTIC
 STA. 98+00 TO 109+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 98+00 TO 109+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE



PROJECT LAYOUT SHEET #11

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i1.i	SHEET 28 OF 84

525.10 REMOVAL OF EXISTING RAILING
 STA. 120+76.5 TO 121+01.5, LT
 STA. 120+76.5 TO 121+01.5, RT

525.40 BRIDGE RAILING, GALVANIZED HD STEEL BEAM/CURB MOUNTED
 STA. 120+76.5 TO 121+01.5, RT

525.60 BRIDGE RAILING REPAIR, TYPE III
 STA. 120+76.5 TO 121+01.5, LT

529.25 REMOVAL OF CONCRETE OR MASONRY
 STA. 120+81 TO 120+97, RT

617.10 RELOCATE MAILBOX, SINGLE SUPPORT
 STA. 119+43, RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 82.75 STA. 119+45.25 TO 120+45.25, RT
 120+20.25 STA. 119+95.25 TO 120+45.25, LT
 STA. 121+32.75 TO 121+50, LT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 120+45.25 TO 120+76.5, LT
 STA. 120+45.25 TO 120+76.5, RT
 STA. 121+01.5 TO 121+26.5, RT
 STA. 121+01.5 TO 121+32.75, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA 119+57.75 TO 119+95.25, LT
 STA 119+45.25 TO 119+82.75 RT

621.60 ANCHOR FOR STEEL BEAM RAIL
 STA. 119+45.25, RT
 STA. 121+26.5, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 119+39 TO 120+76.5, RT
 STA. 120+40 TO 121+50, LT
 STA. 121+01.5 TO 121+28, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 109+50 TO 121+50, SOLID LT & RT
 STA. 113+62, DOUBLE SOLID LT (T.H. 4)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 109+50 TO 121+50, SOLID LT & RT
 STA. 113+62, DOUBLE SOLID LT (T.H. 4)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
 STA. 113+62, LT (T.H. 4)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 113+62, LT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 109+50 TO 121+50, SOLID LT & RT
 STA. 113+62, DOUBLE SOLID LT (T.H. 4)

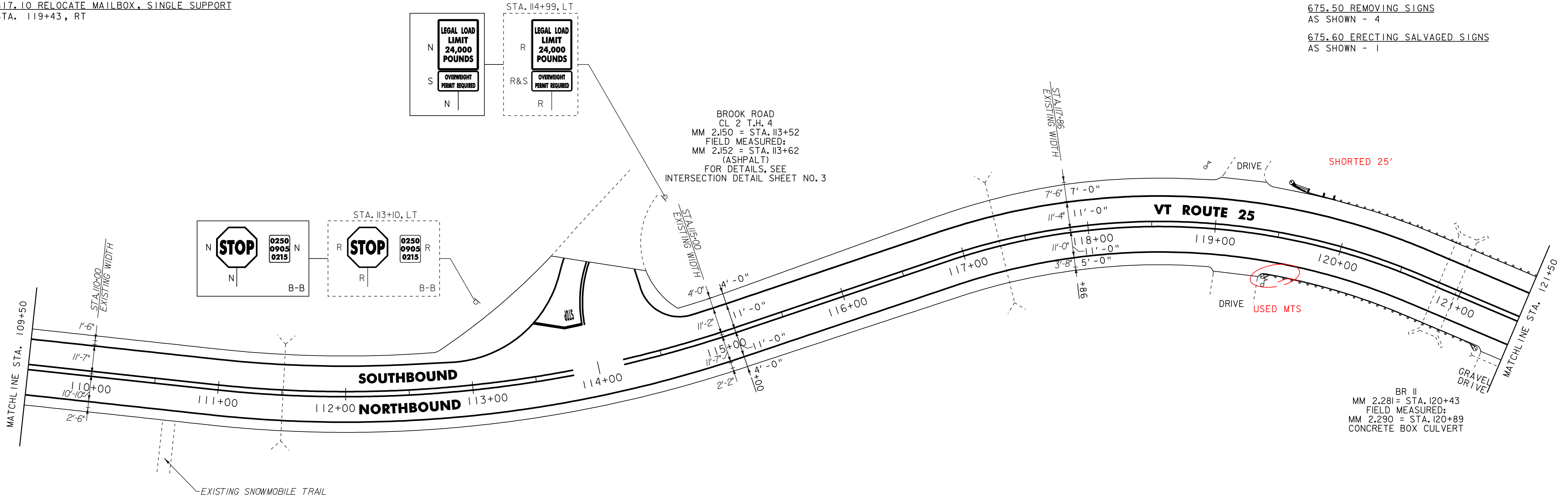
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 109+50 TO 121+50, SOLID LT & RT
 STA. 113+62, DOUBLE SOLID LT (T.H. 4)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 113+62, LT (T.H. 4)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 113+62, LT - "STOP"

675.50 REMOVING SIGNS
 AS SHOWN - 4

675.60 ERECTING SALVAGED SIGNS
 AS SHOWN - 1



NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #12

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i12.i	SHEET 29 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 121+50 TO 121+95.25, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 123+32.75 TO 122+32.75, LT

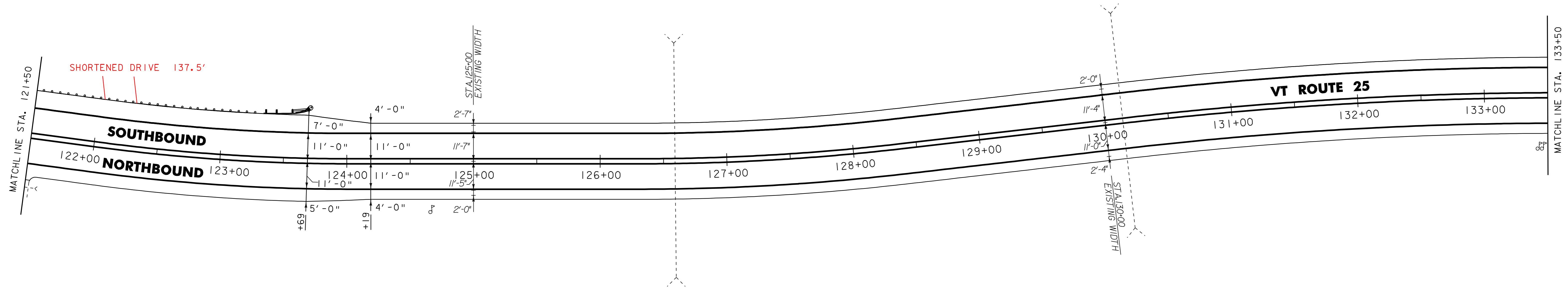
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 121+50 TO 121+66, LT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 121+50 TO 133+50, SOLID LT & RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 121+50 TO 133+50, SOLID LT & RT

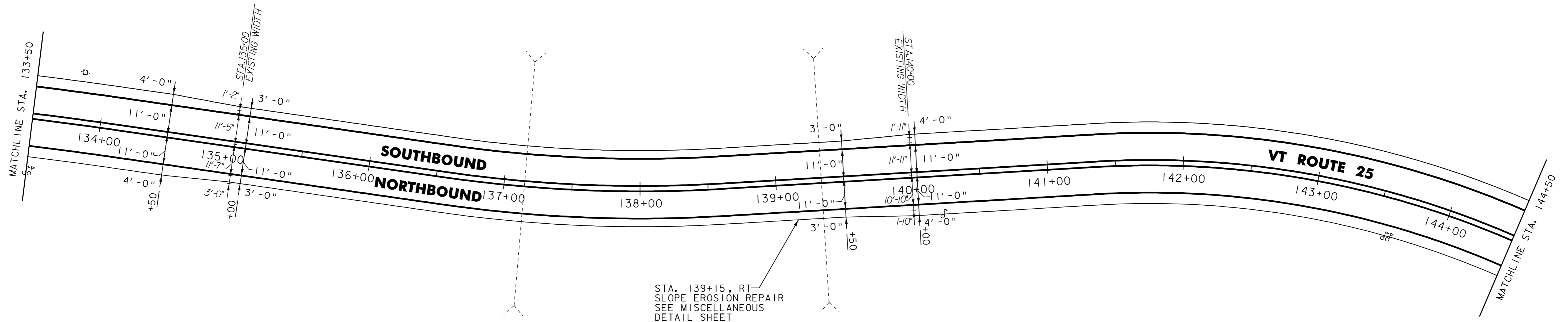
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 121+50 TO 133+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 121+50 TO 133+50, SOLID LT & RT



~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 133+50 TO 144+50, SOLID LT & RT
~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 133+50 TO 144+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 133+50 TO 144+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 133+50 TO 144+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #13



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: SIP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i13.i	SHEET 30 OF 84

~~616.35 TREATED TIMBER CURB~~
~~STA. 152+75 TO 153+50, RT~~
~~621.20 STEEL BEAM GUARDRAIL, GALVANIZED~~
~~STA. 153+47.5 TO 156+50, RT~~

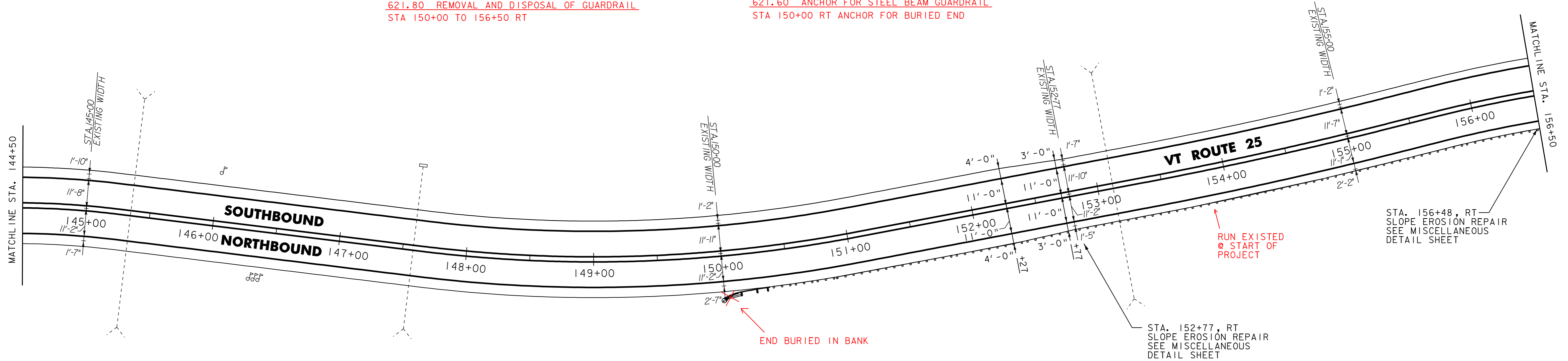
621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
 STA. 150+35 TO 153+47.5, RT
 150+00 156+50
 621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 149+97.5 TO 150+35, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 144+50 TO 156+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 144+50 TO 156+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 144+50 TO 156+50, SOLID LT & RT
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 144+50 TO 156+50, SOLID LT & RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA 150+00 TO 156+50 RT

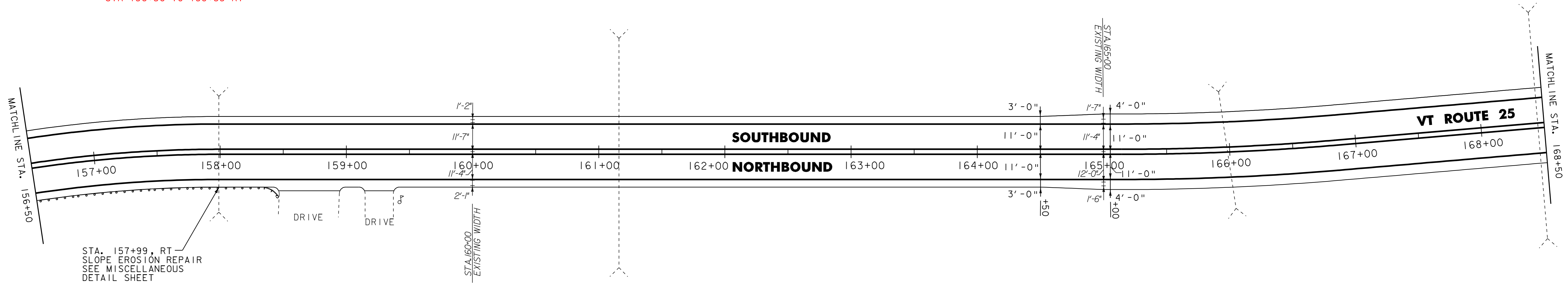
621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
 STA 150+00 RT ANCHOR FOR BURIED END



621.205 W/ 8' POSTS
~~621.20 STEEL BEAM GUARDRAIL, GALVANIZED~~
 STA. 156+50 TO 158+35, RT
 621.60 ANCHOR FOR STEEL BEAM RAIL
 STA. 158+35, RT
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA 156+50 TO 158+35 RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 156+50 TO 168+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 156+50 TO 168+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 156+50 TO 168+50, SOLID LT & RT
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 156+50 TO 168+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

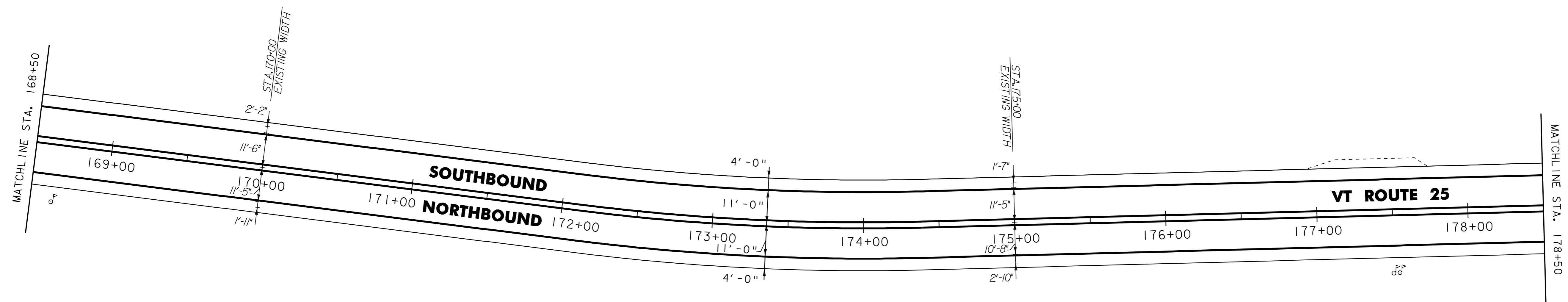
PROJECT LAYOUT SHEET #14

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: SIP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i14.i	SHEET 31 OF 84



646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 168+50 TO 178+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 168+50 TO 178+50, SOLID LT & RT

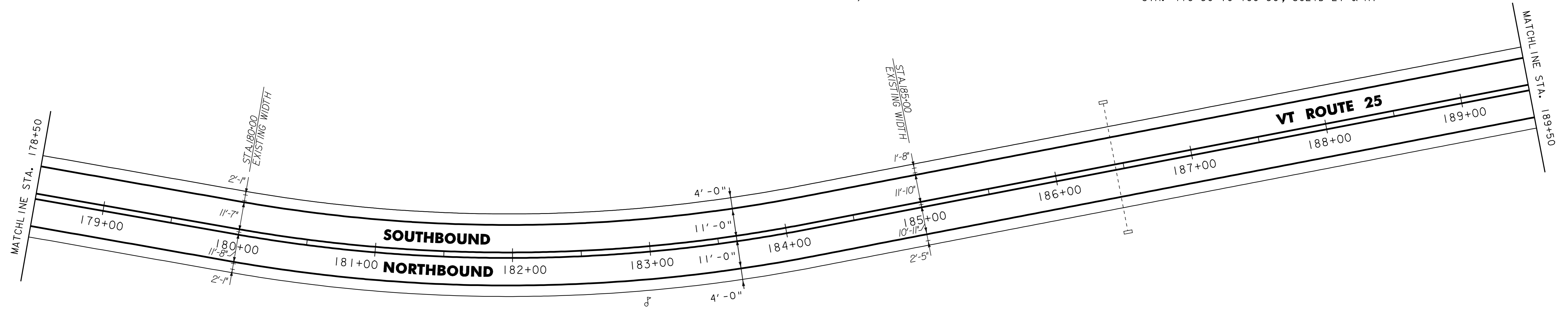
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 168+50 TO 178+50, SOLID LT & RT
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 168+50 TO 178+50, SOLID LT & RT



616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
 STA 186+51 LT & RT CULVERT CROSSING

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 178+50 TO 189+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 178+50 TO 189+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 178+50 TO 189+50, SOLID LT & RT
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 178+50 TO 189+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #15	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178i15.i	SHEET 32 OF 84



604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, II OR III

675.50 REMOVING SIGNS
AS SHOWN - 6

STA. 189+67, LT

~~646.20 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 189+50 TO 201+50, SOLID LT & RT

646.21

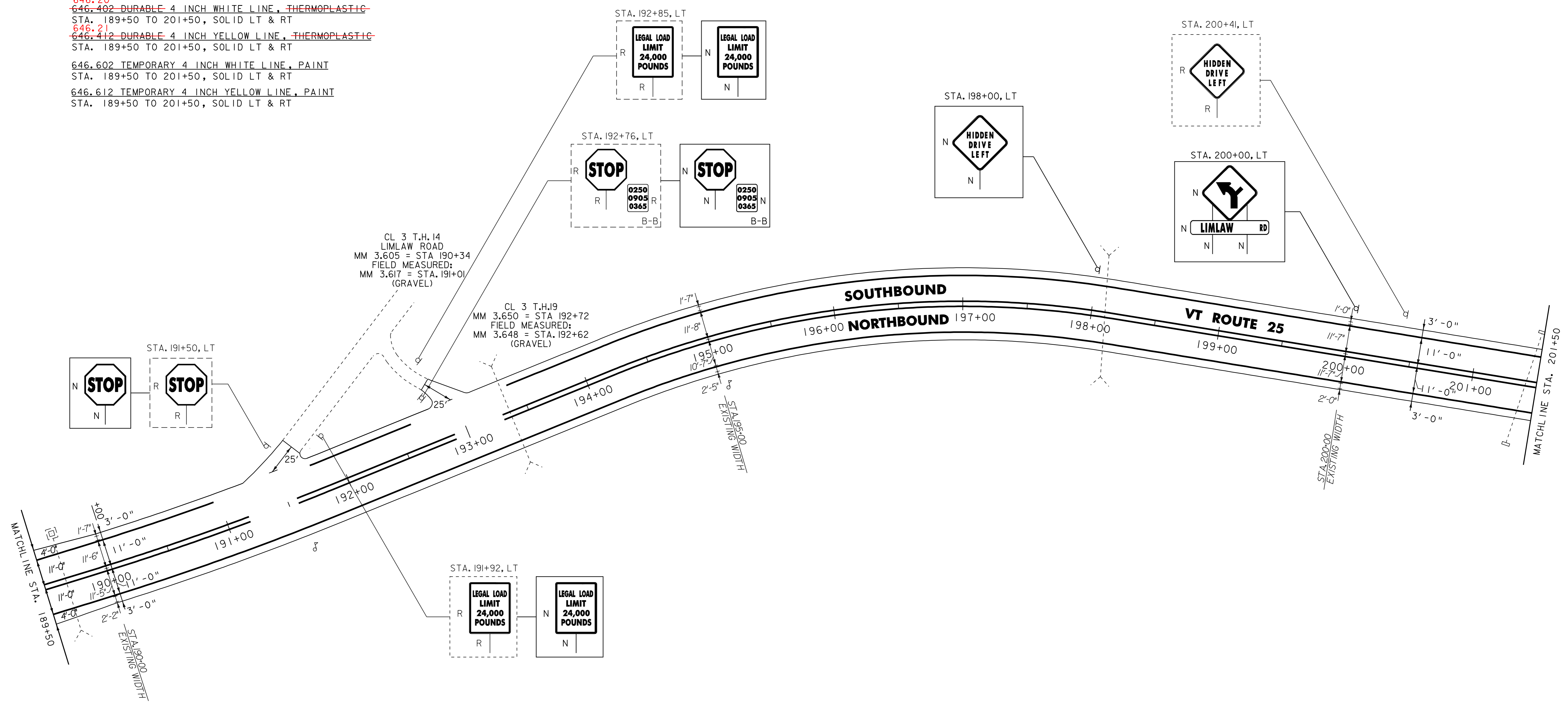
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 189+50 TO 201+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

STA. 189+50 TO 201+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

STA. 189+50 TO 201+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #16	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: S1P 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178i16.i	SHEET 33 OF 84



525.60 BRIDGE RAILING REPAIR, TYPE III
 CORINTH STA. 204+94.13 TO 205+37.88, RT
 CORINTH STA. 205+01.13 TO 205+44.88, LT

~~617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT
 CORINTH STA. 206+32, RT~~

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 CORINTH STA. 204+32.38 TO 204+69.88, LT
 CORINTH STA. 204+37.88 TO 204+62.88, RT
 CORINTH STA. 205+69.13 TO 206+19.13, RT
 CORINTH STA. 205+76.1 TO 208+01.1, LT
 TOPSHAM STA. 2+50 TO 3+50, LT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
 CORINTH STA. 204+62.88 TO 204+94.13, RT
 CORINTH STA. 204+69.88 TO 205+01.13, LT
 CORINTH STA. 205+37.88 TO 205+69.13, RT
 CORINTH STA. 205+44.88 TO 205+76.1, LT

18.75
 621.50 MANUFACTURED TERMINAL SECTION, FLARED
 CORINTH STA. 204+00.38 TO 204+37.88, RT
 CORINTH STA. 208+01.1 TO 208+38.6, LT
 TOPSHAM STA. 2+12.5 TO 2+50, LT

621.60 ANCHOR FOR STEEL BEAM RAIL
 CORINTH STA. 204+32.38, LT
 CORINTH STA. 206+19.13, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 CORINTH STA. 204+26 TO 206+02, LT
 CORINTH STA. 204+57 TO 206+30, RT
 646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 CORINTH STA. 201+50 TO TOPSHAM STA 3+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 CORINTH STA. 201+50 TO TOPSHAM STA 3+50, SOLID LT & RT
 646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 TOPSHAM STA. 0+41, RT - "SCHOOL"

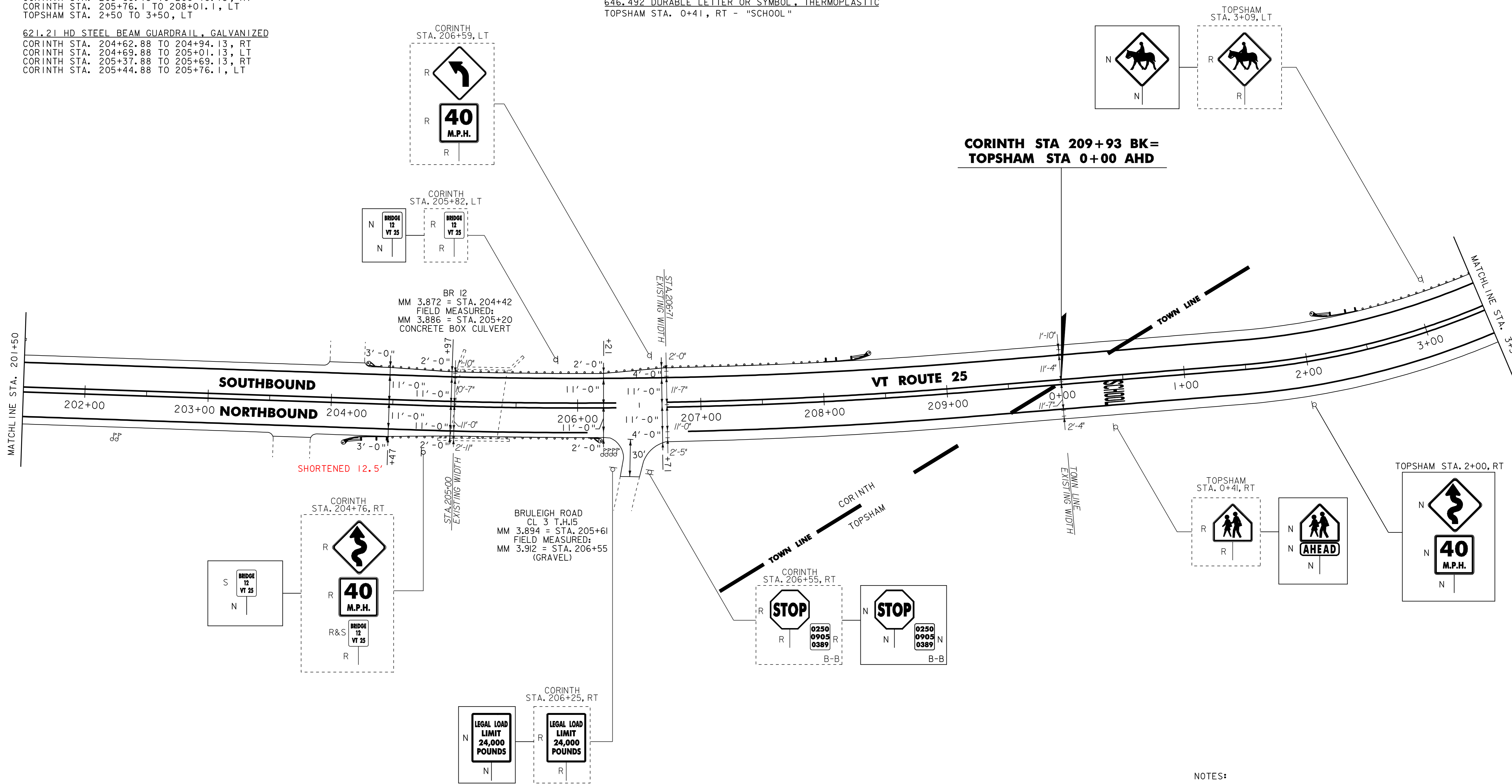
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 CORINTH STA. 201+50 TO TOPSHAM STA 3+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 CORINTH STA. 201+50 TO TOPSHAM STA 3+50, SOLID LT & RT

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 TOPSHAM STA. 0+41, RT - "SCHOOL"~~

675.50 REMOVING SIGNS
 AS SHOWN - 11

675.60 ERECTING SALVAGED SIGNS
 AS SHOWN - 1



- NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #17

PROJECT NAME: BRADFORD - ORANGE
 PROJECT NUMBER: STP 2213(I)

FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
 PROJECT LEADER: JLL DRAWN BY: STANTEC
 DESIGNED BY: STANTEC CHECKED BY: JLL
 IPARM FILE: p99b178i17.i SHEET 34 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 3+50 TO 5+12.5, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 5+12.5 TO 5+50, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 3+50 TO 15+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 3+50 TO 15+50, SOLID LT & RT
STA. 5+43, DOUBLE SOLID RT. (T.H. 76)
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 5+43, RT (T.H. 76)
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 5+43, RT - "STOP"
STA. 10+06, LT - "SCHOOL"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 3+50 TO 15+50, SOLID LT & RT

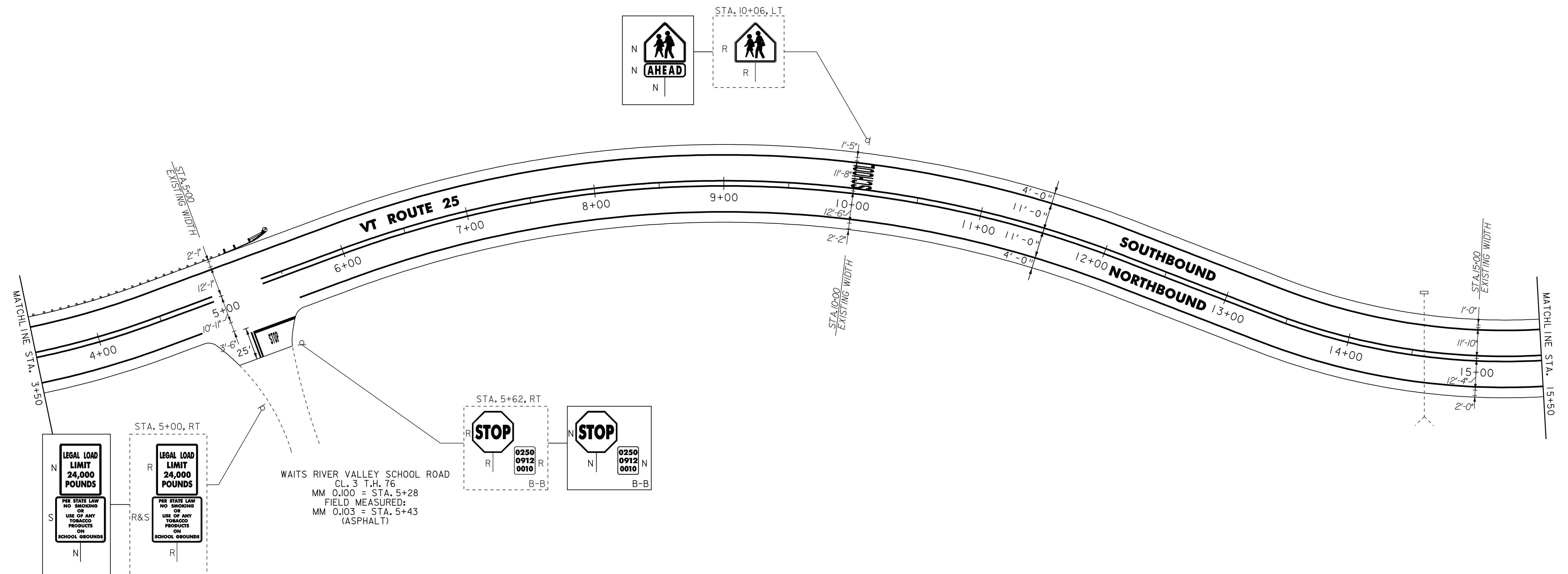
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 3+50 TO 15+50, SOLID LT & RT
STA. 5+43, DOUBLE SOLID RT. (T.H. 76)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 5+43, RT (T.H. 76)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
STA. 5+43, RT - "STOP"
STA. 10+06, LT - "SCHOOL"

675.50 REMOVING SIGNS
AS SHOWN - 5

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



WAITS RIVER VALLEY SCHOOL ROAD
CL. 3 T.H. 76
MM 0.100 = STA. 5+28
FIELD MEASURED:
MM 0.103 = STA. 5+43
(ASPHALT)

- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #18



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(1)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 35 OF 84
IPARM FILE: p99b178i18.i		

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 17+04 TO 20+66.5, LT
 (CONNECT TO EXISTING RAIL @ 20+66.5, LT)

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 16+66.5 TO 17+04, LT
~~STA. 20+82 TO 21+19.5, RT~~
 STA. 21+59.5 TO 21+97, LT
 STA. 21+84.5 TO 22+22, RT

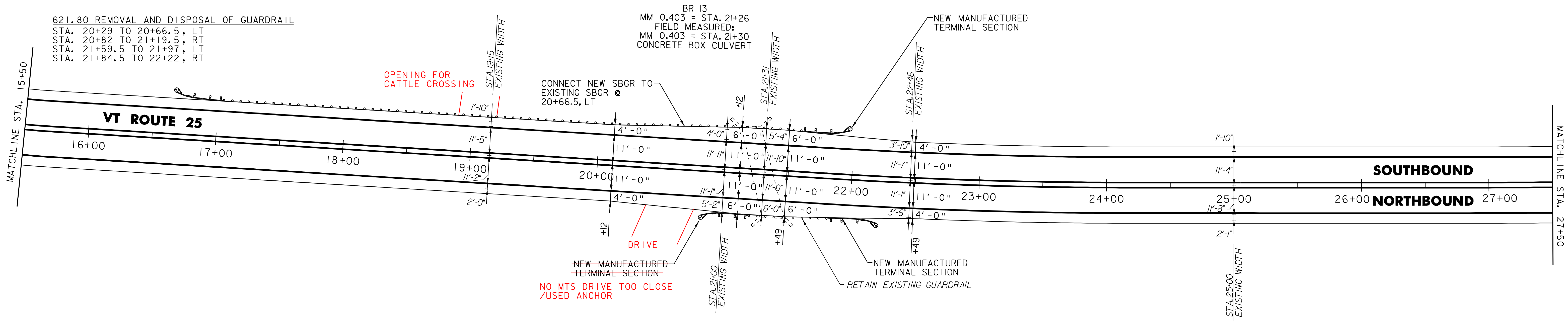
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 20+29 TO 20+66.5, LT
 STA. 20+82 TO 21+19.5, RT
 STA. 21+59.5 TO 21+97, LT
 STA. 21+84.5 TO 22+22, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 15+50 TO 27+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 15+50 TO 27+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 15+50 TO 27+50, SOLID LT & RT
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 15+50 TO 27+50, SOLID LT & RT

621.60 ANCHOR FOR STEEL BEAM RAIL
 STA 20+89 RT
 STA 19+00 LT (2)

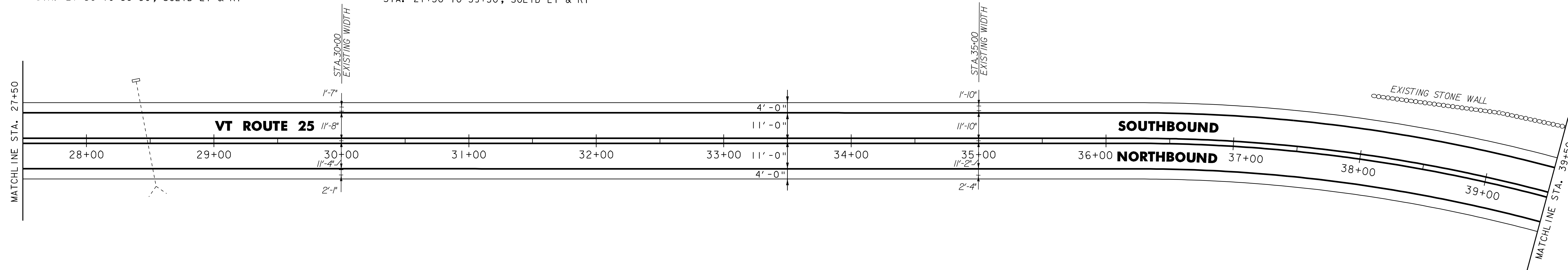
616.47 BITUMINOUS CONCRETE GUTTERS & TRAFFIC ISLANDS
 19+29 LT & RT CULVERT CROSSING



~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 27+50 TO 39+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 27+50 TO 39+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 27+50 TO 39+50, SOLID LT & RT
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 27+50 TO 39+50, SOLID LT & RT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
 28+52 LT & RT CULVERT CROSSING



- NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #19



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i19.i	SHEET 36 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 51+42.5 TO 51+50, RT

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 51+22.5 TO 51+50, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED

STA. 50+85 TO 51+22.5, LT
~~STA. 51+05 TO 51+42.5, RT~~

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

STA. 50+93 TO 51+50, LT
STA. 51+05 TO 51+50, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 39+50 TO 51+50, SOLID LT & RT
STA. 42+42, DOUBLE SOLID RT (T.H. 38)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 39+50 TO 51+50, SOLID LT & RT

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 42+58, RT (T.H. 38)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 42+58, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 39+50 TO 51+50, SOLID LT & RT
STA. 42+42, DOUBLE SOLID RT (T.H. 38)

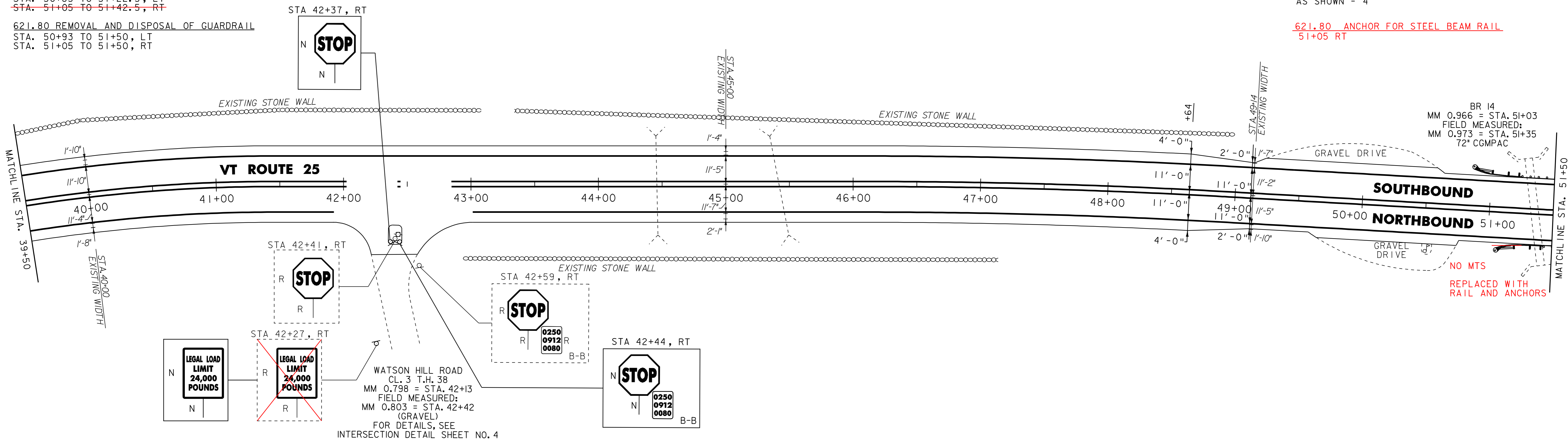
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 39+50 TO 51+50, SOLID LT & RT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 42+58, RT (T.H. 38)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 42+58, LT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 4

621.80 ANCHOR FOR STEEL BEAM RAIL
51+05 RT



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 51+50 TO 52+05, RT
54+00 STA. 54+10 TO 55+85, LT
STA. 58+39 TO 59+26.5, LT
57+87.5 63+50

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 51+50 TO 54+10, LT 54+00
~~STA. 59+26.5 TO 63+50, LT~~

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 52+05 TO 52+42.5, RT
56+40 STA. 55+85 TO 56+22.5, LT 77.5
STA. 58+01.5 TO 58+39, LT
57+50 57+87.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 51+50 TO 51+79, RT
STA. 51+50 TO 56+23, LT
STA. 58+01.5 TO 63+50, LT

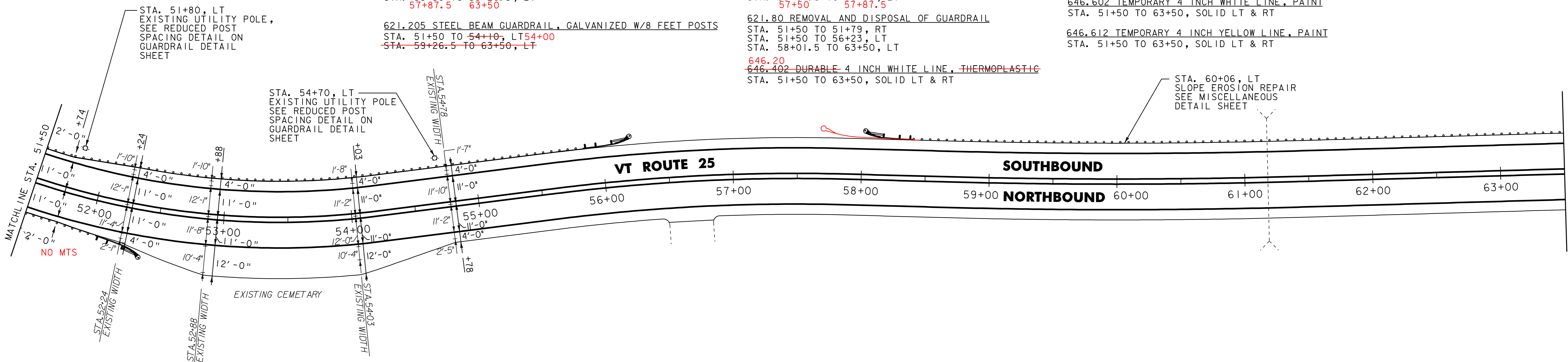
646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 51+50 TO 63+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 51+50 TO 63+50, SOLID LT & RT

621.60 ANCHOR FOR STEEL BEAM RAIL
STA 51+80 RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 51+50 TO 63+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 51+50 TO 63+50, SOLID LT & RT



NOTES:

1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

PROJECT
LAYOUT
SHEET #20

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(I)

FILE NAME: p99b178.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p99b178I20.i

PLOT DATE: 28-MAY-2010 13:4
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 37 OF 84

621.20
~~621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS~~
 STA. 63+50 TO 65+51.5, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 65+51.5 TO 65+89, LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 63+50 TO 65+95, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 63+50 TO 75+50, SOLID LT & RT
 STA. 72+88, DOUBLE SOLID LT (T.H. 57)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 63+50 TO 75+50, SOLID LT & RT
 STA. 72+88, DOUBLE SOLID LT (T.H. 57)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
 STA. 72+88, LT (T.H. 57)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 72+88, LT - "STOP"

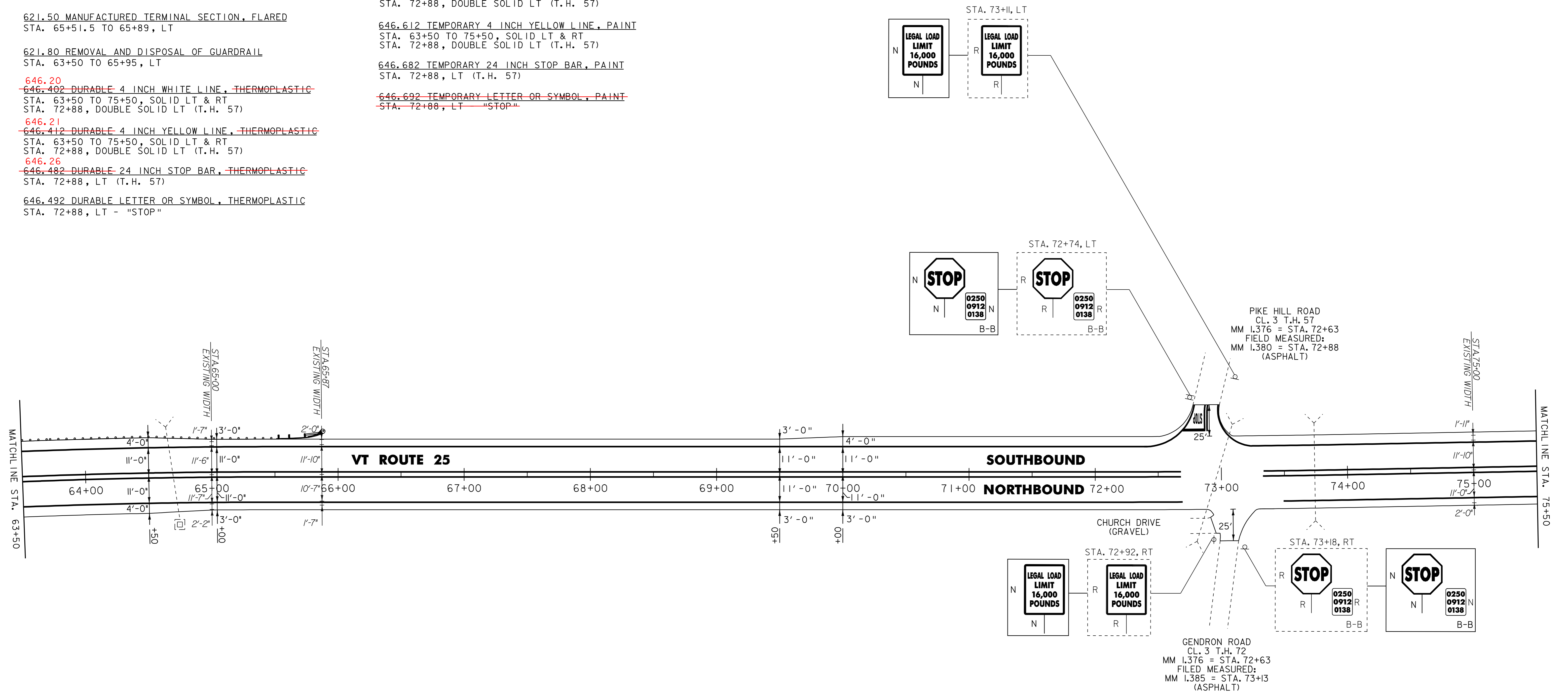
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 63+50 TO 75+50, SOLID LT & RT
 STA. 72+88, DOUBLE SOLID LT (T.H. 57)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 63+50 TO 75+50, SOLID LT & RT
 STA. 72+88, DOUBLE SOLID LT (T.H. 57)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 72+88, LT (T.H. 57)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 72+88, LT - "STOP"~~

675.50 REMOVING SIGNS
 AS SHOWN - 6



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE PROJECT LAYOUT SHEET #21	PROJECT NAME: <u>BRADFORD - ORANGE</u>
	PROJECT NUMBER: <u>SIP 2213(I)</u>
	FILE NAME: <u>p99b178.dgn</u> PLOT DATE: <u>28-MAY-2010 13:4</u>
	PROJECT LEADER: <u>JLL</u> DRAWN BY: <u>SIANTEC</u>
DESIGNED BY: <u>SIANTEC</u> CHECKED BY: <u>JLL</u>	
IPARM FILE: <u>p99b178121.i</u> SHEET <u>38</u> OF <u>84</u>	



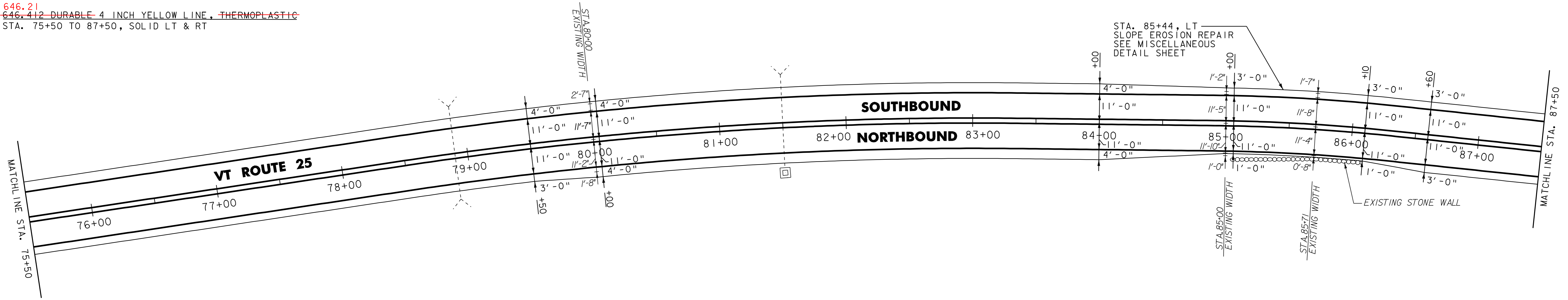
604.412, 604.415, OR 604.418 REHAB.
 DI'S, CB'S OR MH'S, CLASS I, II OR III
 STA. 81+51, RT **NO WORK WAS DONE**

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 75+50 TO 87+50, SOLID LT & RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 75+50 TO 87+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 75+50 TO 87+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 75+50 TO 87+50, SOLID LT & RT



621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 98+18 TO 98+55.5, LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 98+18 TO 98+55.5, LT

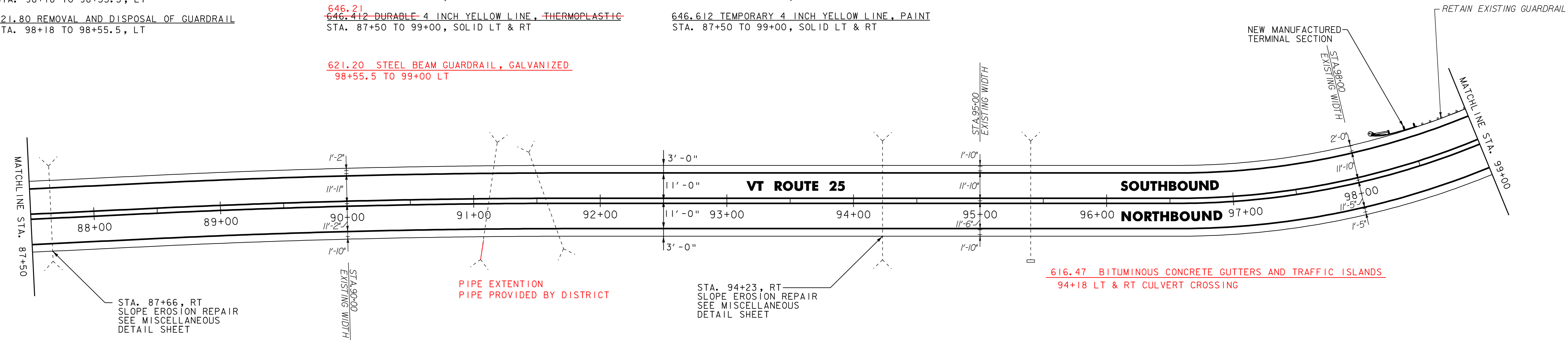
~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 87+50 TO 99+00, SOLID LT & RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 87+50 TO 99+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 87+50 TO 99+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 87+50 TO 99+00, SOLID LT & RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 98+55.5 TO 99+00 LT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #22



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i22.i	SHEET 39 OF 84

100+17.5 TO 100+90 RT (UP HONEY CORNERS RD)

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 103+71.5 TO 108+46.5, LT
99+00 TO 101+50.5 LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 101+50.5 TO 101+88, LT
STA. 103+34 TO 103+71.5, LT
STA. 108+46.5 TO 108+84, LT
99+00 TO 100+17.5 RT

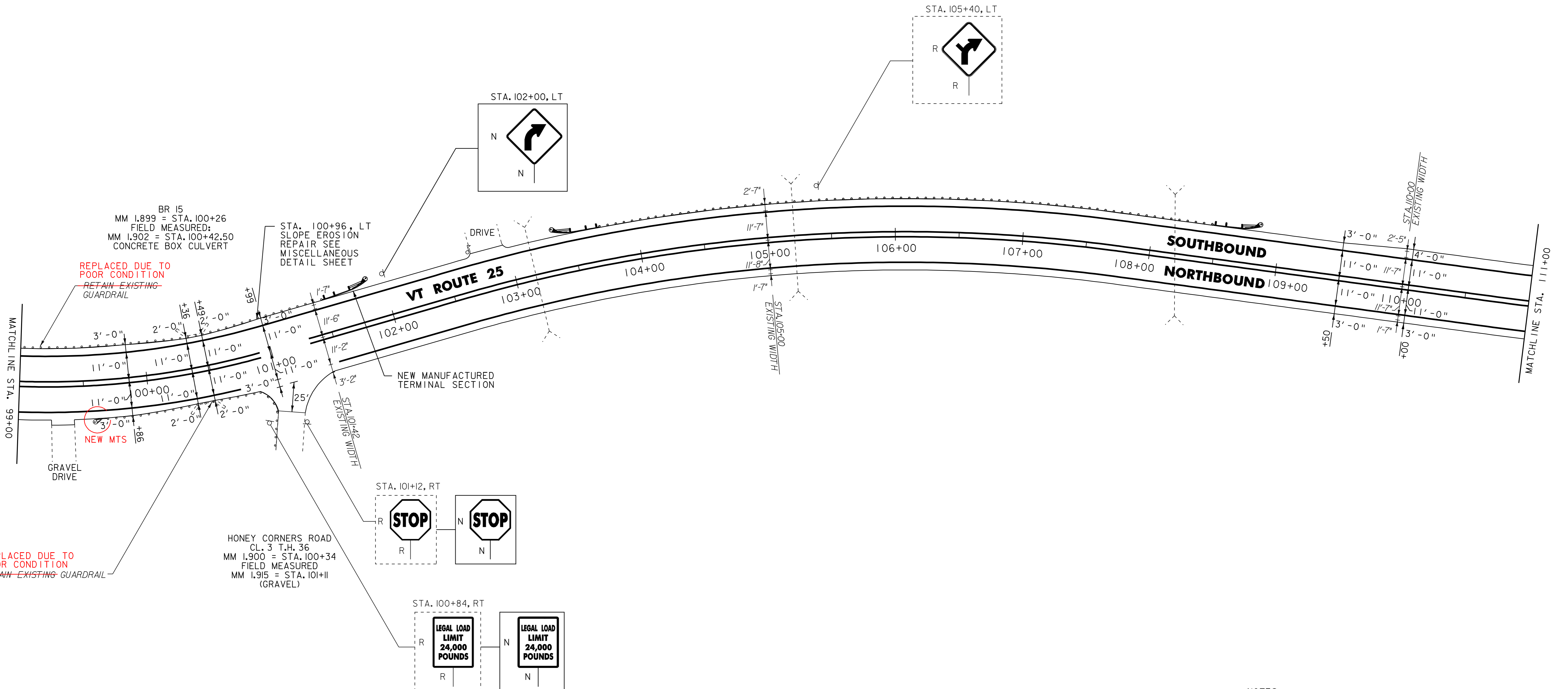
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 101+50.5 TO 101+88, LT
STA. 104+41 TO 108+84, LT

621.60 ANCHORS FOR STEEL BEAM RAIL
STA 100+90 RT (AT TANGENT)
STA 100+90 RT (RADIUS ON HONEY CORNERS RD)

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
STA. 99+00 TO 111+00, SOLID LT & RT
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
STA. 99+00 TO 111+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 99+00 TO 111+00, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 99+00 TO 111+00, SOLID LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 3



NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

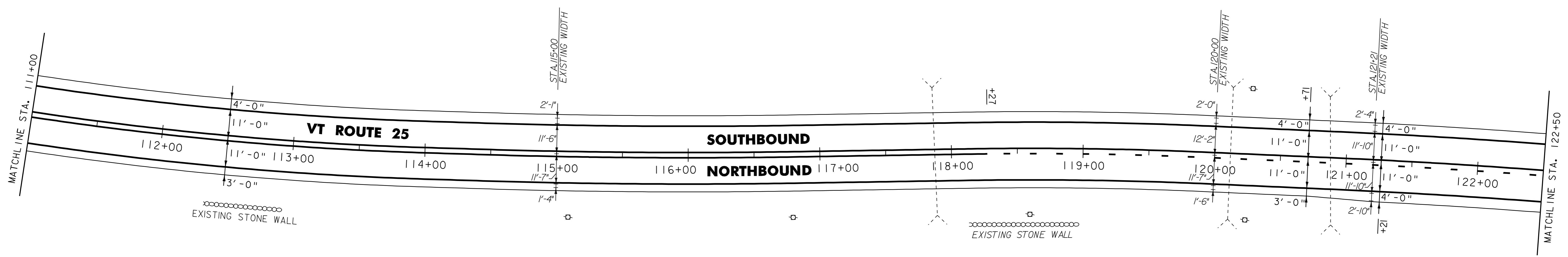
PROJECT LAYOUT SHEET #23	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(I)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178I23.i	SHEET 40 OF 84



646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 111+00 TO 122+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 111+00 TO 118+27, SOLID LT & RT
 STA. 118+27 TO 122+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 111+00 TO 122+50, SOLID LT & RT
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 111+00 TO 118+27, SOLID LT & RT
 STA. 118+27 TO 122+50, SOLID LT, DASHED RT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
 120+83 RT & LT CULVERT CROSSING

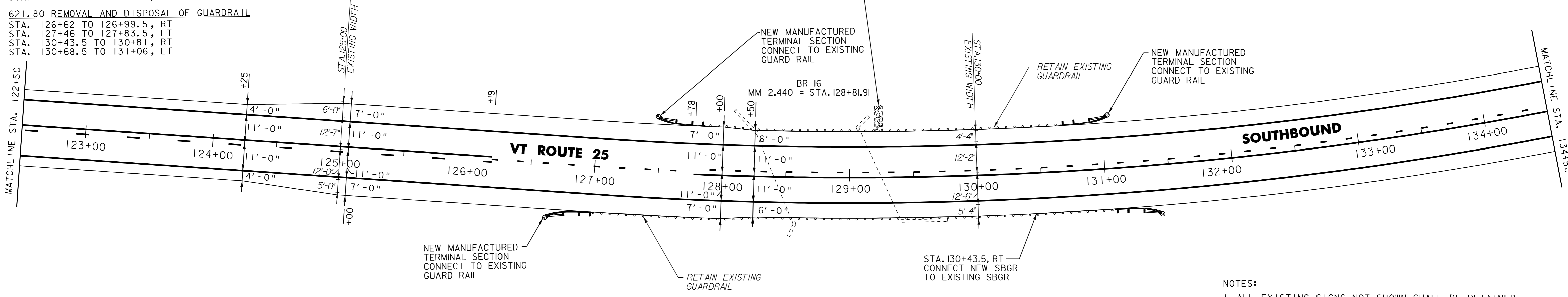


621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 130+43.5 TO 131+06, RT
 621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 126+62 TO 126+99.5, RT
 STA. 127+46 TO 127+83.5, LT
 STA. 130+68.5 TO 131+06, LT
 STA. 131+06 TO 131+43.5, RT
 621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 126+62 TO 126+99.5, RT
 STA. 127+46 TO 127+83.5, LT
 STA. 130+43.5 TO 130+81, RT
 STA. 130+68.5 TO 131+06, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 122+50 TO 134+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 122+50 TO 126+19, SOLID LT, DASHED RT
 STA. 126+19 TO 127+78, DASHED C
 STA. 127+78 TO 134+50, DASHED LT, SOLID RT

STA. 129+20, LT REMOVE EXISTING BITUMINOUS GUTTER, CONSTRUCT STONE FILL, TYPE I. SEE MISCELLANEOUS DETAIL SHEET

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 122+50 TO 134+50, SOLID LT & RT
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 122+50 TO 126+19, SOLID LT, DASHED RT
 STA. 126+19 TO 127+78, DASHED C
 STA. 127+78 TO 134+50, DASHED LT, SOLID RT



NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #24	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: S1P 2213(I)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178124.i	SHEET 41 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 144+68 TO 144+93, RT
 STA. 146+05 TO 146+50, RT
 STA. 146+42.5 TO 146+50, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 144+55.5 TO 144+93, LT

621.60 ANCHOR FOR STEEL BEAM RAIL
 STA. 144+68, RT
 144+53.5

621.70 GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I
 STA. 145+92.5 TO 146+42.5, LT
 (CONNECT TO EXISTING BRIDGE RAIL ON BR 17)

621.71 GUARDRAIL APPROACH SECTION, GALVANIZED TYPE II
 STA. 144+93 TO 145+05.5, LT
 STA. 144+93 TO 145+05.5, RT
 STA. 145+92.5 TO 146+05, RT
 (CONNECT ALL SECTIONS TO THE EXISTING BRIDGE RAIL ON BR 17)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 144+42 TO 145+05.5, LT
 STA. 144+56 TO 145+05.5, RT
 STA. 145+92 TO 146+50, LT
 STA. 145+92 TO 146+50, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 134+50 TO 146+50, SOLID LT & RT
 STA. 143+45, DOUBLE SOLID RT. (T.H. 49)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 134+50 TO 134+64, DASHED LT, SOLID RT
 STA. 134+64 TO 146+50, SOLID LT & RT
 STA. 143+45, DOUBLE SOLID RT. (T.H. 49)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC
 STA. 143+45, RT (T.H. 49)

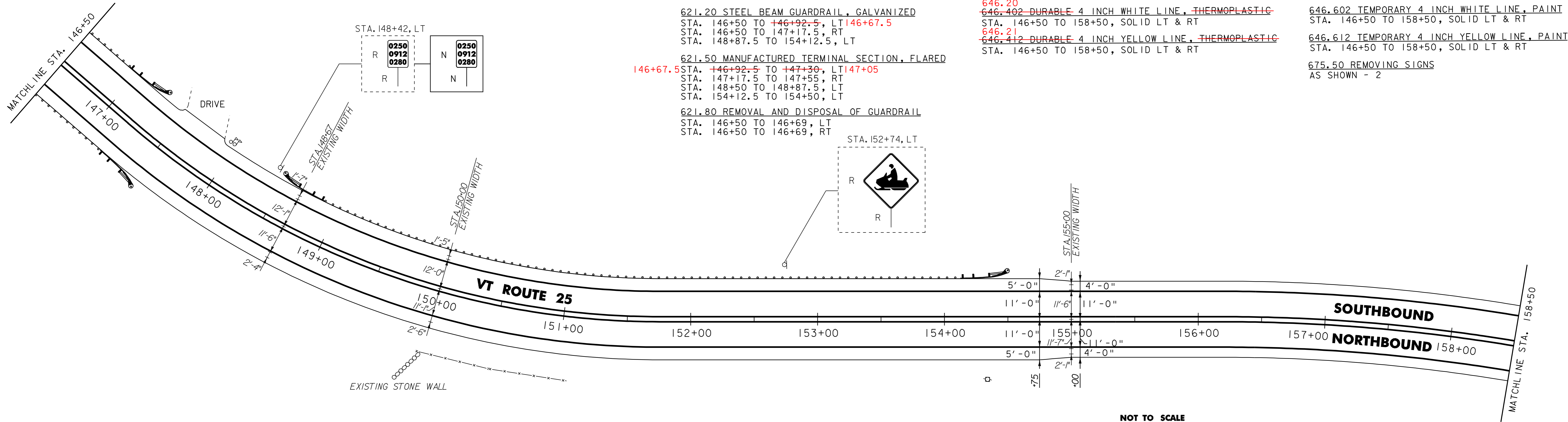
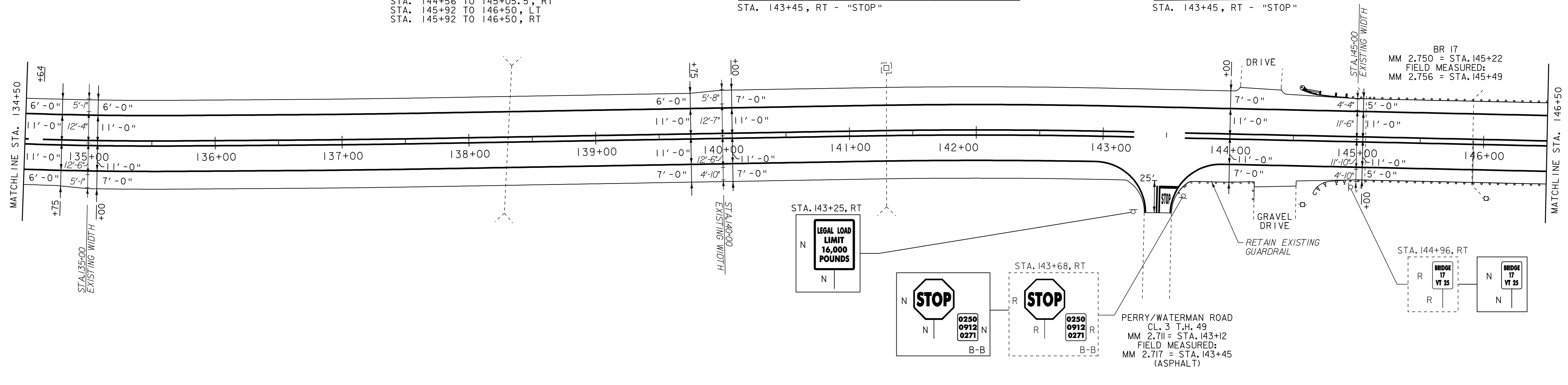
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 143+45, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 134+50 TO 146+50, SOLID LT & RT
 STA. 143+45, DOUBLE SOLID RT. (T.H. 49)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 134+50 TO 134+64, DASHED LT, SOLID RT
 STA. 134+64 TO 146+50, SOLID LT & RT
 STA. 143+45, DOUBLE SOLID RT. (T.H. 49)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 143+45, RT (T.H. 49)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 143+45, RT - "STOP"



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 146+50 TO 146+92.5, LT 146+67.5
 STA. 146+50 TO 147+17.5, RT
 STA. 148+87.5 TO 154+12.5, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 146+92.5 TO 147+30, LT 147+05
 STA. 147+17.5 TO 147+55, RT
 STA. 148+50 TO 148+87.5, LT
 STA. 154+12.5 TO 154+50, LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 146+50 TO 146+69, LT
 STA. 146+50 TO 146+69, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 146+50 TO 158+50, SOLID LT & RT
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 146+50 TO 158+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 146+50 TO 158+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 146+50 TO 158+50, SOLID LT & RT

675.50 REMOVING SIGNS
 AS SHOWN - 2

NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

PROJECT LAYOUT SHEET #25

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 42 OF 84
IPARM FILE: p99b178i25.i		

604.412, 604.415, OR 604.418 REHAB.
 DI'S, CB'S OR MH'S, CLASS I, II OR III
 STA. 167+59, LT **NO WORK WAS DONE**

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 159+87.5 TO 164+12.5, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 159+50 TO 159+87.5, RT
 STA. 164+12.5 TO 164+50, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 158+50 TO 170+50, SOLID LT & RT
 STA. 168+02, DOUBLE SOLID LT (T.H. 3)

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 158+50 TO 170+50, SOLID LT & RT
 STA. 168+02, DOUBLE SOLID LT (T.H. 3)

~~646.26~~
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
 STA. 168+02, LT (T.H. 3)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 168+02, LT - "STOP"

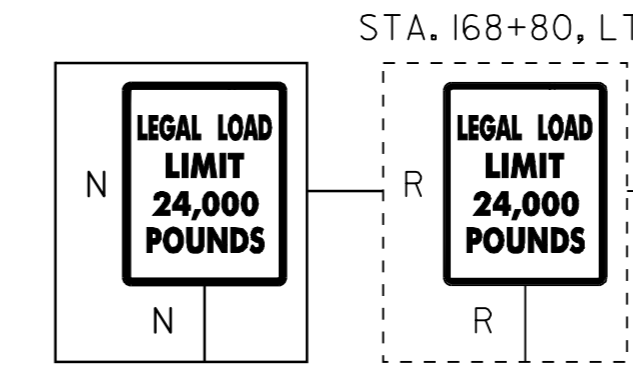
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 158+50 TO 170+50, SOLID LT & RT
 STA. 168+02, DOUBLE SOLID LT (T.H. 3)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 158+50 TO 170+50, SOLID LT & RT
 STA. 168+02, DOUBLE SOLID LT (T.H. 3)

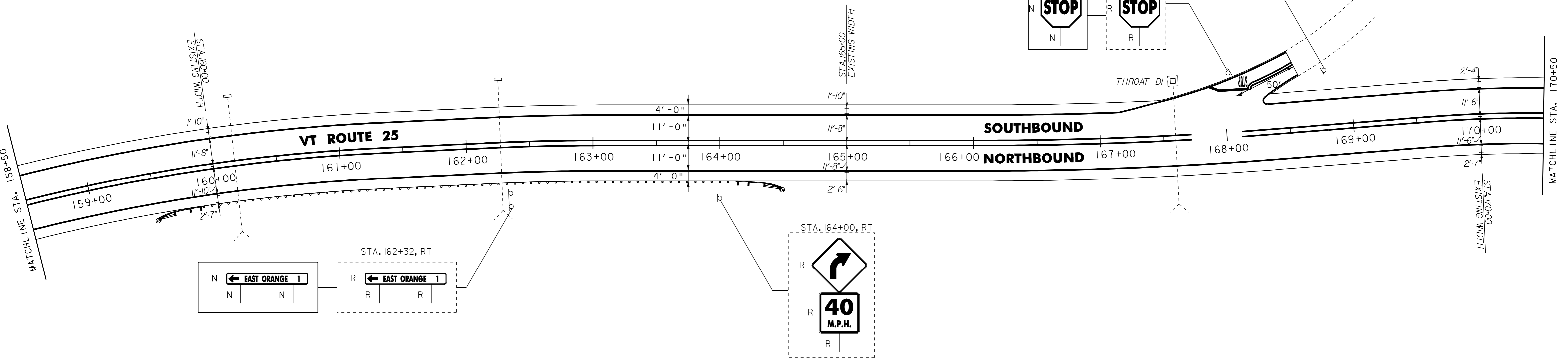
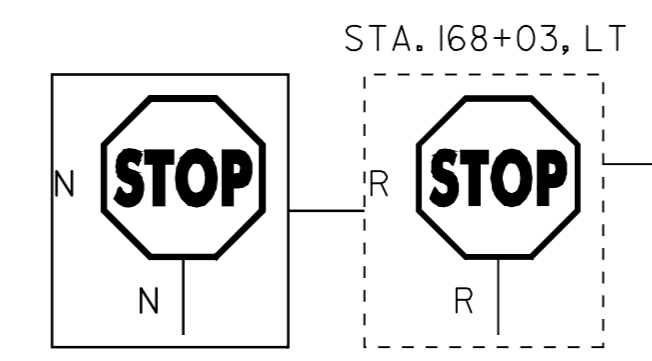
646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 168+02, LT (T.H. 3)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 168+02, LT - "STOP"~~

675.50 REMOVING SIGNS
 AS SHOWN - 5



E. ORANGE ROAD
 CL. 2 T.H. 3
 MM 3.189 = STA. 168+38
 FIELD MEASURED:
 MM 3.182 = STA. 168+02
 (ASPHALT)



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

PROJECT LAYOUT SHEET #26	NOT TO SCALE	
	PROJECT NAME: BRADFORD - ORANGE	
	PROJECT NUMBER: STP 2213(I)	
	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC	
DESIGNED BY: STANTEC	CHECKED BY: JLL	
IPARM FILE: p99b178126.i	SHEET 43 OF 84	



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 172+00 TO 176+00, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 171+62.5 TO 172+00, RT
STA. 176+00 TO 176+37.5, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 170+50 TO 182+50, SOLID LT & RT
STA. 173+03, DOUBLE SOLID LT (T.H. 48)

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 170+50 TO 182+50, SOLID LT & RT
STA. 173+03, DOUBLE SOLID LT (T.H. 48)

~~646.26~~
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 173+03, LT (T.H. 48)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 173+03, LT - "STOP"

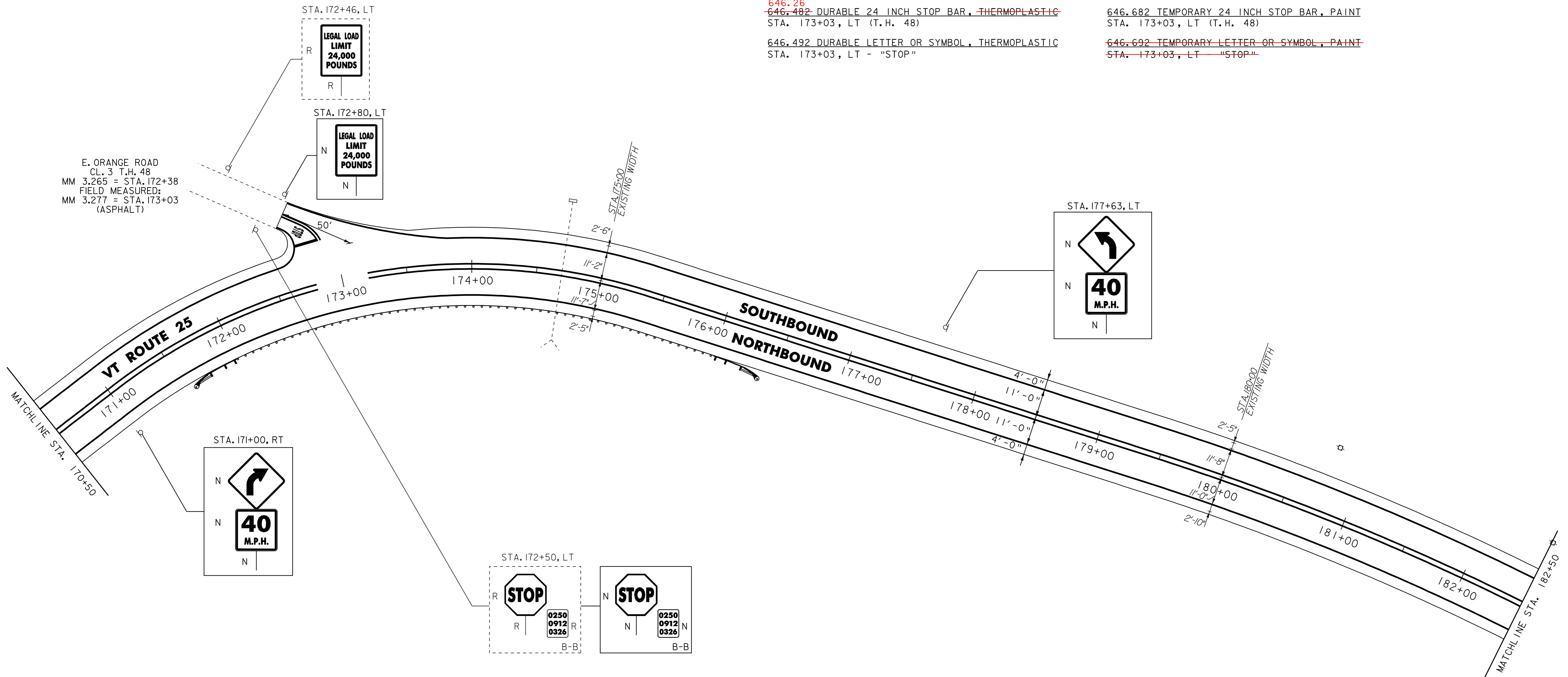
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 170+50 TO 182+50, SOLID LT & RT
STA. 173+03, DOUBLE SOLID LT (T.H. 48)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 170+50 TO 182+50, SOLID LT & RT
STA. 173+03, DOUBLE SOLID LT (T.H. 48)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 173+03, LT (T.H. 48)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 173+03, LT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 3



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #27

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 44 OF 84
IPARM FILE: p99b178127.i		



621.20 STEEL BEAM GUARDRAIL GALVANIZED

STA. 183+12.5 TO 194+50, RT
 STA. 184+13.5 TO 187+88.5, LT
 STA. 188+14 TO 194+50 RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED

STA. 182+75 TO 183+12.5, RT
 STA. 183+76 TO 184+13.5, LT
 STA. 187+88.5 TO 188+26, LT

621.60 ANCHOR

STA. 187+89 RT (DRIVE OPENING)
 STA. 188+14 RT (DRIVE OPENING)

646.20

~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 182+50 TO 194+50, SOLID LT & RT

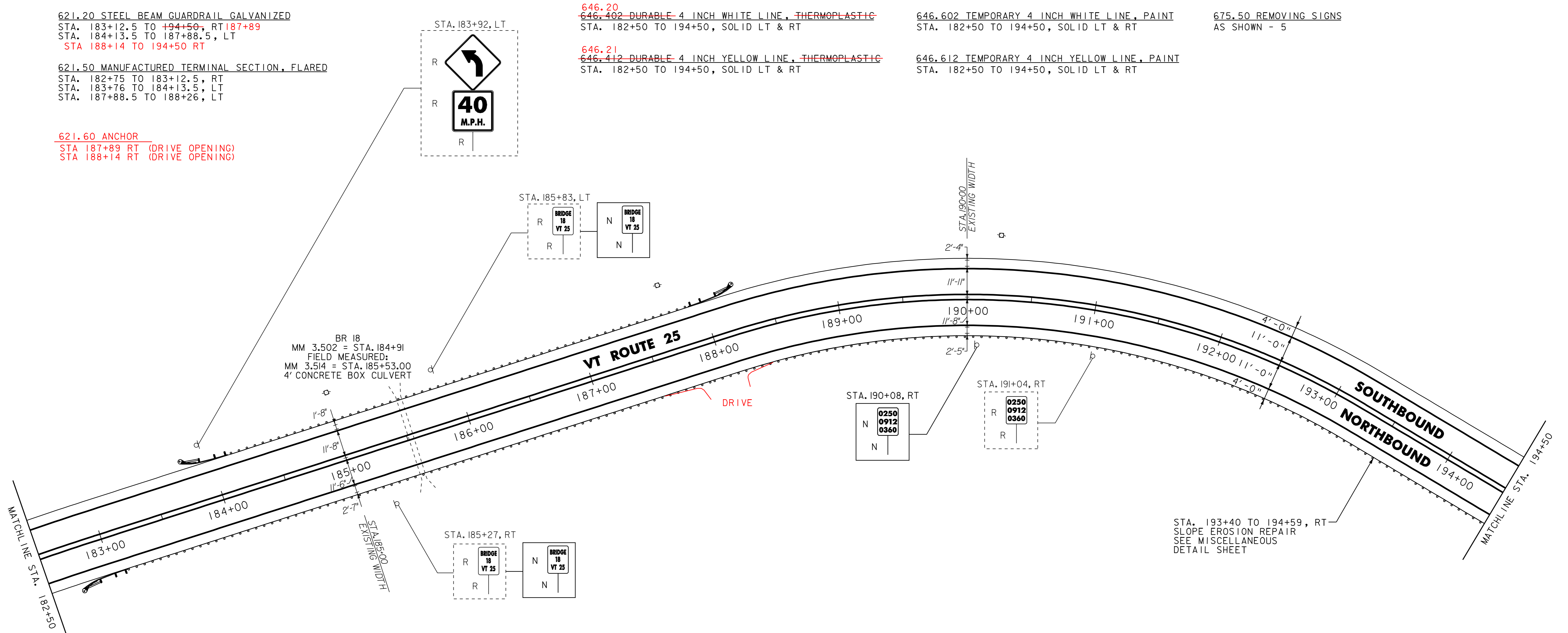
646.21

~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 182+50 TO 194+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 182+50 TO 194+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 182+50 TO 194+50, SOLID LT & RT

675.50 REMOVING SIGNS
 AS SHOWN - 5



STA. 193+40 TO 194+59, RT
 SLOPE EROSION REPAIR
 SEE MISCELLANEOUS
 DETAIL SHEET

- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #28



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i28.i	SHEET 45 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
194+50 TO 196+50, RT

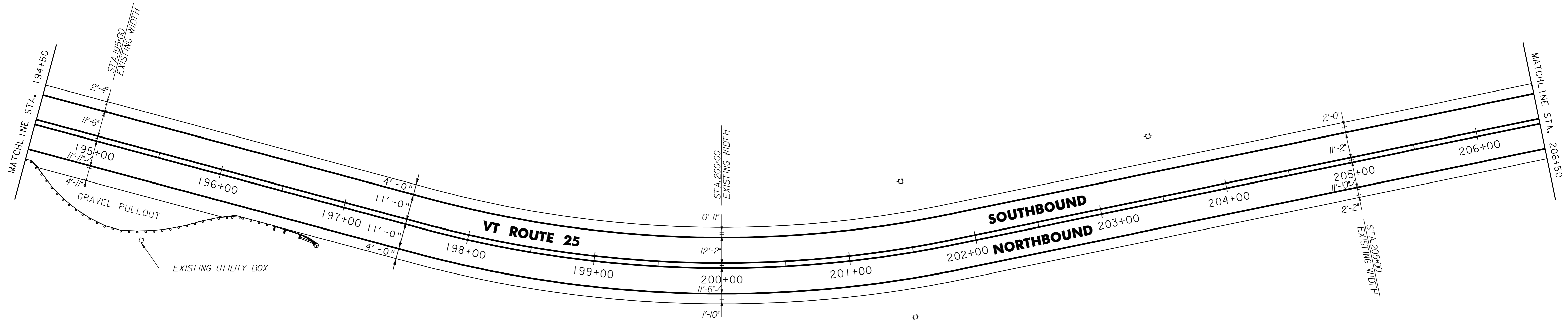
~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 194+50 TO 206+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 194+50 TO 206+50, SOLID LT & RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
196+50 TO 196+87.5, RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 194+50 TO 206+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 194+50 TO 206+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #29



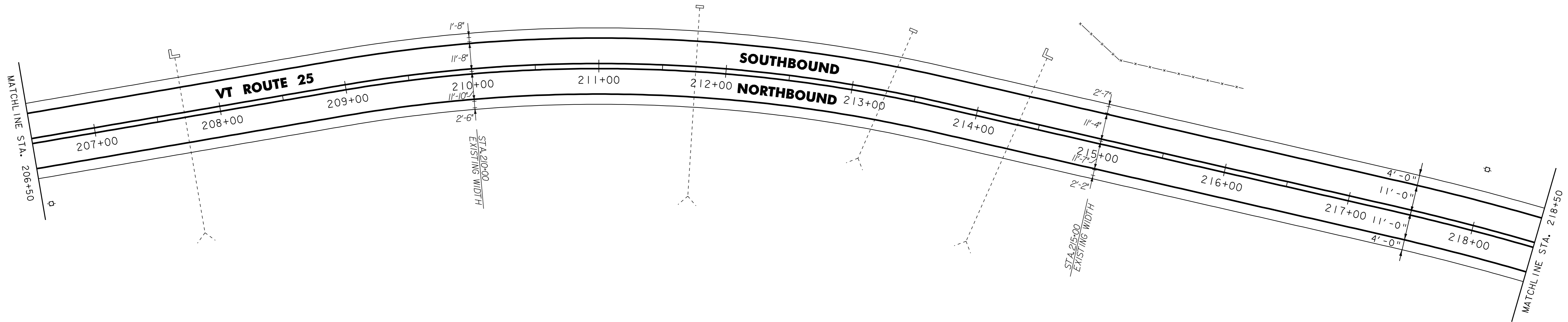
PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(1)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178129.i	SHEET 46 OF 84

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 206+50 TO 218+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 206+50 TO 218+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 206+50 TO 218+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 206+50 TO 218+50, SOLID LT & RT

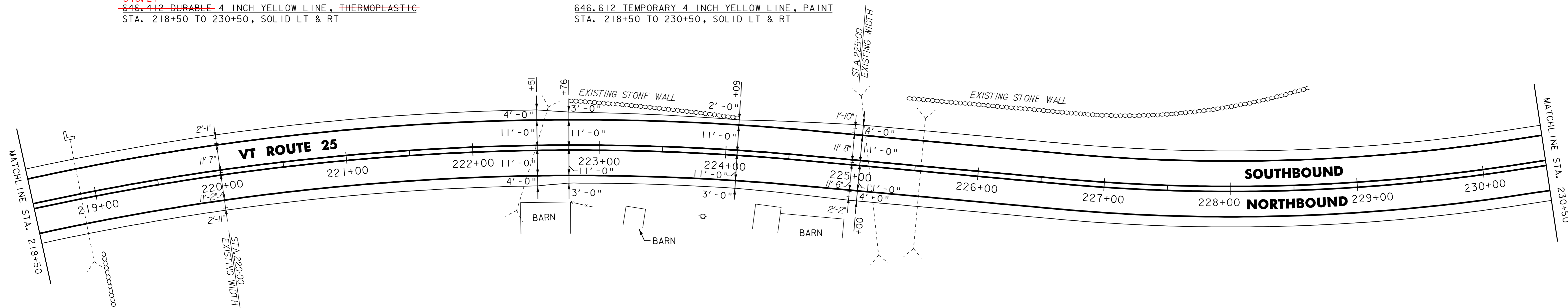


646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 218+50 TO 230+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 218+50 TO 230+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 218+50 TO 230+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 218+50 TO 230+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #30



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i30.i	SHEET 47 OF 84

525.60 BRIDGE RAILING REPAIR, TYPE III
 STA. 234+42.5 TO 234+67.5, RT
 STA. 234+62.5 TO 234+87.5, LT

604.412, 604.415, OR 604.418 REHAB.
 D.I.'S, CB'S OR MH'S, CLASS I, II OR III
 STA. 236+34, RT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
 STA. 240+70 TO 240+86, LT
 STA. 242+11 TO 243+00, RT

~~617.10 RELOCATE MAILBOX, SINGLE SUPPORT~~
~~STA. 235+55, RT~~

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 233+31.25 TO 234+31.25, LT
 STA. 233+61.25 TO 234+11.25, RT
 STA. 235+12.5 TO 237+12.5, LT
 236+07.5

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
 STA. 231+36.25 TP 233+61.25, RT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 234+11.25 TO 234+42.5, RT
 STA. 234+31.25 TO 234+62.5, LT
 STA. 234+67.5 TO 234+92.5, RT
 STA. 234+87.5 TO 235+12.5, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 230+98.75 TO 231+36.25, RT
 STA. 232+93.75 TO 233+31.25, LT NO MTS
 STA. 234+92.5 TO 235+30, RT NO MTS
 STA. 237+12.5 TO 237+50, LT
 235+96.5 TO 236+34

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 230+99 TO 235+13, RT
 STA. 234+27 TO 235+52, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 230+50 TO 243+00, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 230+50 TO 243+00, SOLID LT & RT

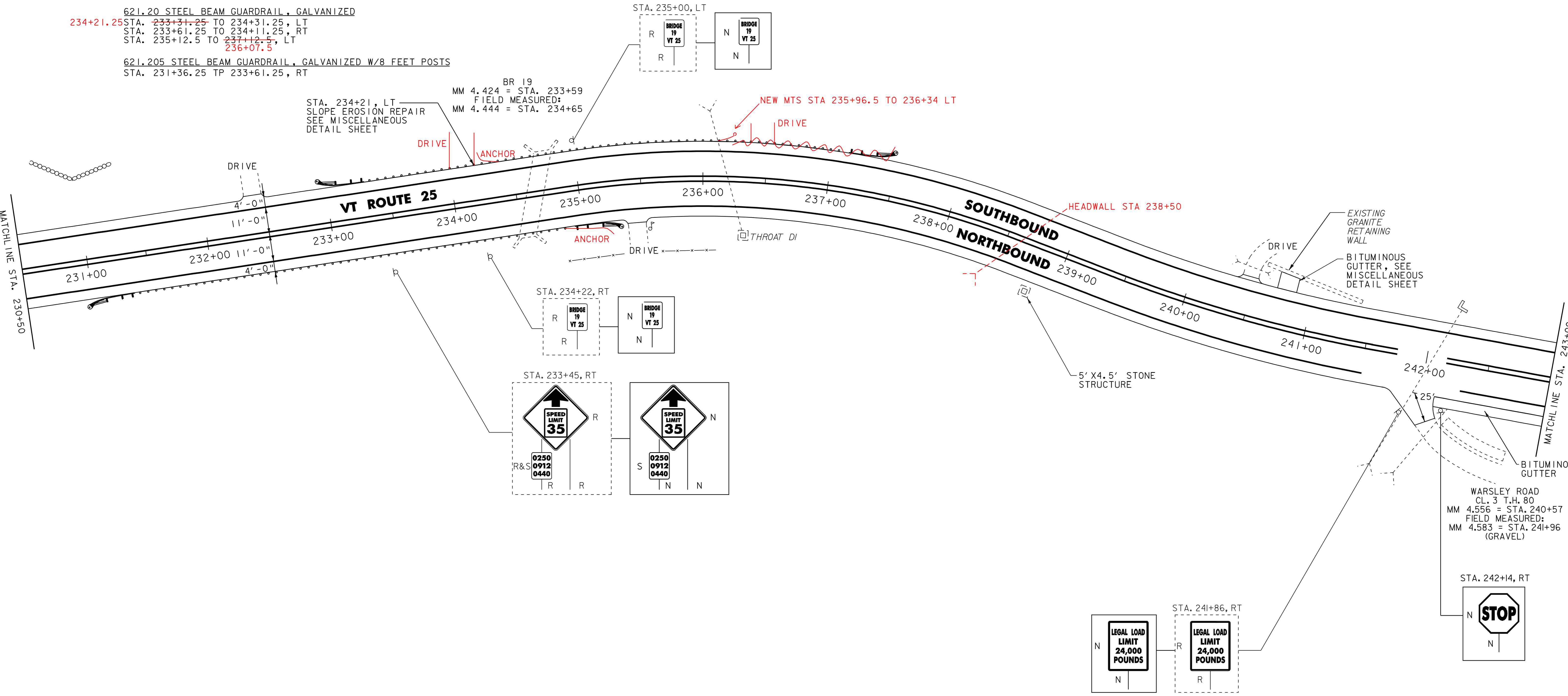
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 230+50 TO 243+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 230+50 TO 243+00, SOLID LT & RT

675.50 REMOVING SIGNS
 AS SHOWN - 5

675.60 ERECTING SALVAGED SIGNS
 AS SHOWN - 1

621.60 ANCHOR
 234+92 RT
 234+28 LT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #31	PROJECT NAME: <u>BRADFORD - ORANGE</u>	
	PROJECT NUMBER: <u>SIP 2213(I)</u>	
	FILE NAME: <u>p99b178.dgn</u>	PLOT DATE: <u>28-MAY-2010 13:4</u>
	PROJECT LEADER: <u>JLL</u>	DRAWN BY: <u>SIANTEC</u>
DESIGNED BY: <u>SIANTEC</u>	CHECKED BY: <u>JLL</u>	
IPARM FILE: <u>p99b178i31.i</u>	SHEET <u>48</u> OF <u>84</u>	



616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 243+00 TO 245+86, RT

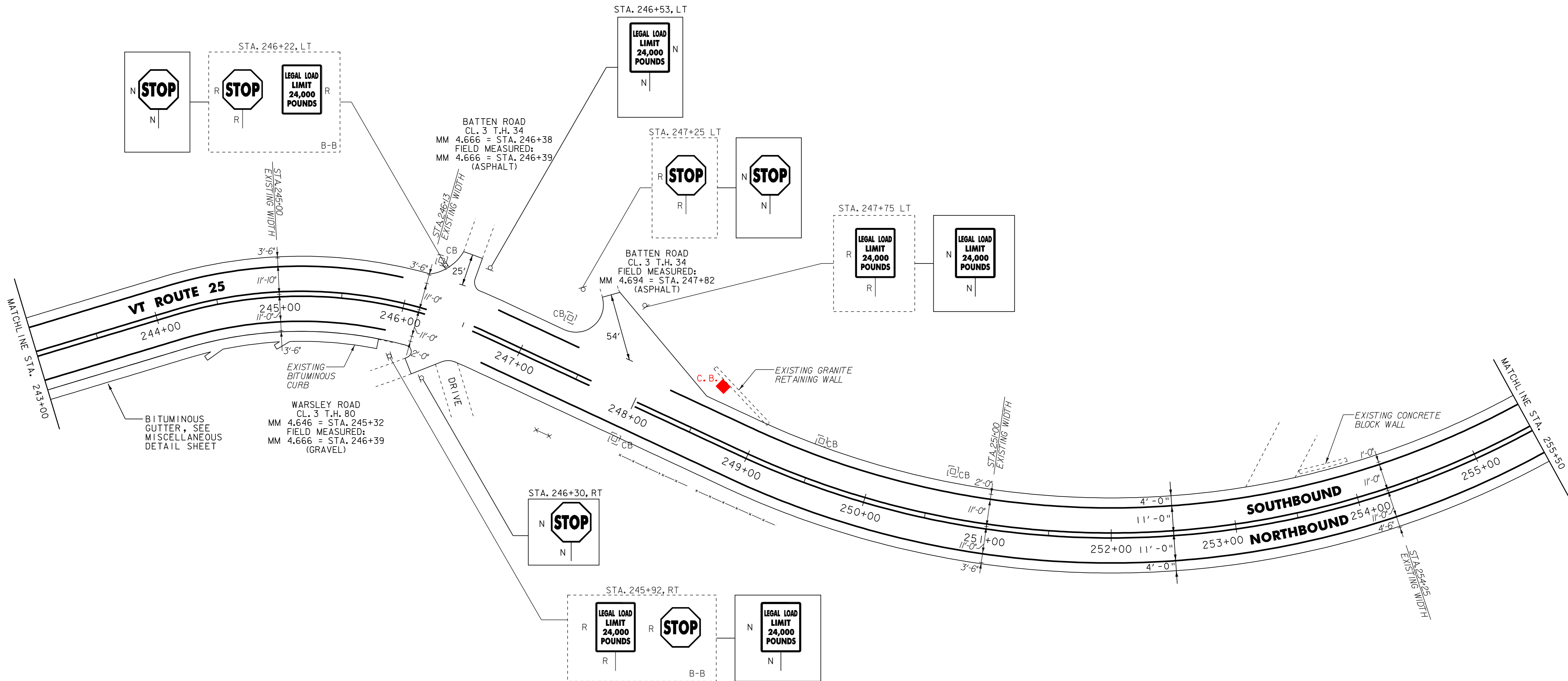
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 243+00 TO 255+50, SOLID LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 6

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 243+00 TO 255+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 243+00 TO 255+50, SOLID LT & RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 243+00 TO 255+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE PROJECT LAYOUT SHEET #32	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(I)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
DESIGNED BY: STANTEC	DRAWN BY: STANTEC
CHECKED BY: JLL	
IPARM FILE: p99b178i32.i	SHEET 49 OF 84



604.412, 604.415, OR 604.418 REHAB.
 D.I.'S, C.B.'S OR M.H.'S, CLASS I, II OR III
 STA. 265+88, LT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
 STA. 259+88 TO 261+96, RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED — NO SBGR
 STA. 261+02.5 TO 261+15, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
~~STA. 260+65 TO 261+02.5, RT~~ STA 260+71.5 TO 261+09 RT
 STA 262+87.5 TO 263+25 RT

621.51 MANUFACTURED TERMINAL SECTION, TANGENT
~~STA. 261+15 TO 261+65, RT~~ STA 261+09 TO 261+59 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 260+73 TO 261+64, RT
 STA 263+25 TO 262+87.5 RT

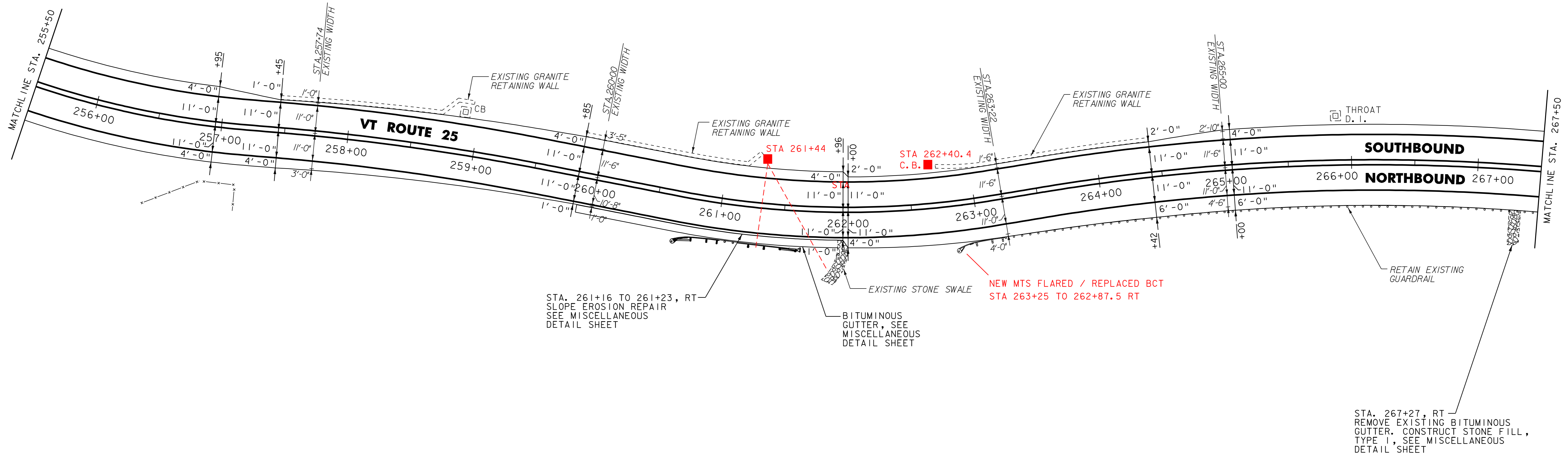
646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 255+50 TO 267+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 255+50 TO 267+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 255+50 TO 267+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 255+50 TO 267+50, SOLID LT & RT

604.412, 604.415, OR 604.418
 STA 261+44 LT



STA. 261+16 TO 261+23, RT
 SLOPE EROSION REPAIR
 SEE MISCELLANEOUS
 DETAIL SHEET

BITUMINOUS
 GUTTER, SEE
 MISCELLANEOUS
 DETAIL SHEET

NEW MTS FLARED / REPLACED BCT
 STA 263+25 TO 262+87.5 RT

STA. 267+27, RT
 REMOVE EXISTING BITUMINOUS
 GUTTER. CONSTRUCT STONE FILL,
 TYPE I, SEE MISCELLANEOUS
 DETAIL SHEET

- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

**PROJECT
 LAYOUT
 SHEET #33**



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 50 OF 84
IPARM FILE: p99b178i33.i		

525.60 BRIDGE RAILING REPAIR, TYPE III
~~STA. 271+35.13 TO 271+78.88, RT~~
~~STA. 271+47.63 TO 271+91.38, LT~~
 STA. 273+78.63 TO 273+97.38, LT
 STA. 273+78.63 TO 273+97.38, RT

~~601.0915 18" CPEP ELIMINATED~~
~~STA. 275+10, RT~~
~~(SEE GUARD RAIL DETAIL SHEET)~~

604.412, 604.415, OR 604.418 REHAB.
 DI'S, CB'S OR MH'S, CLASS I, ~~++~~ OR ~~+++~~
 STA. 275+30, ~~LT-RT~~
 STA. 278+76, RT
 268+84.1 LT
 269+63.8 LT
 270+48.4 LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 269+82 TO 271+03.88, RT
 +25 STA. 272+22.63 TO 272+60.13, LT+50
 STA. 274+22.38 TO 274+72.38, RT
 STA. 274+28.63 TO 278+53.63, LT
 25 +50

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
 STA. 278+53.63 TO 280+00, LT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 271+03.88 TO 271+35.13, RT
 STA. 271+23 TO 271+47.63, LT
 STA. 271+78.88 TO 271+94, RT
 STA. 271+91.38 TO 272+22.63, LT
 STA. 273+55 TO 273+78.63, LT
 STA. 273+70 TO 273+78.63, RT
 STA. 273+97.38 TO 274+22.38, RT
 STA. 273+97.38 TO 274+28.63, LT
 271+35.13 TO 271+78.88 RT
 271+47.63 TO 271+91.38 LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. ~~272+60.13 TO 272+97.63, LT~~
 STA. 274+72.38 TO 275+09.88, RT

621.60 ANCHOR FOR STEEL BEAM RAIL
 STA. 269+82, RT 270+00 RT
 STA. 271+23, LT 269+50 RT
 STA. ~~271+94, RT~~ 273+51.63 RT
 STA. 273+55, LT 272+00 RT
 STA. ~~273+70, RT~~ 272+50 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 269+97 TO 271+93, RT
 STA. 271+37 TO 272+64, LT
 STA. 273+58 TO 280+00, LT
 STA. 273+75 TO 274+31, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 267+50 TO 280+00, SOLID LT & RT
 STA. 272+23, DOUBLE SOLID RT (T.H. 36)
 646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 267+50 TO 280+00, SOLID LT & RT
 STA. 272+23, DOUBLE SOLID RT (T.H. 36)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
 STA. 272+23, RT (T.H. 36)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 272+23, RT - "STOP"

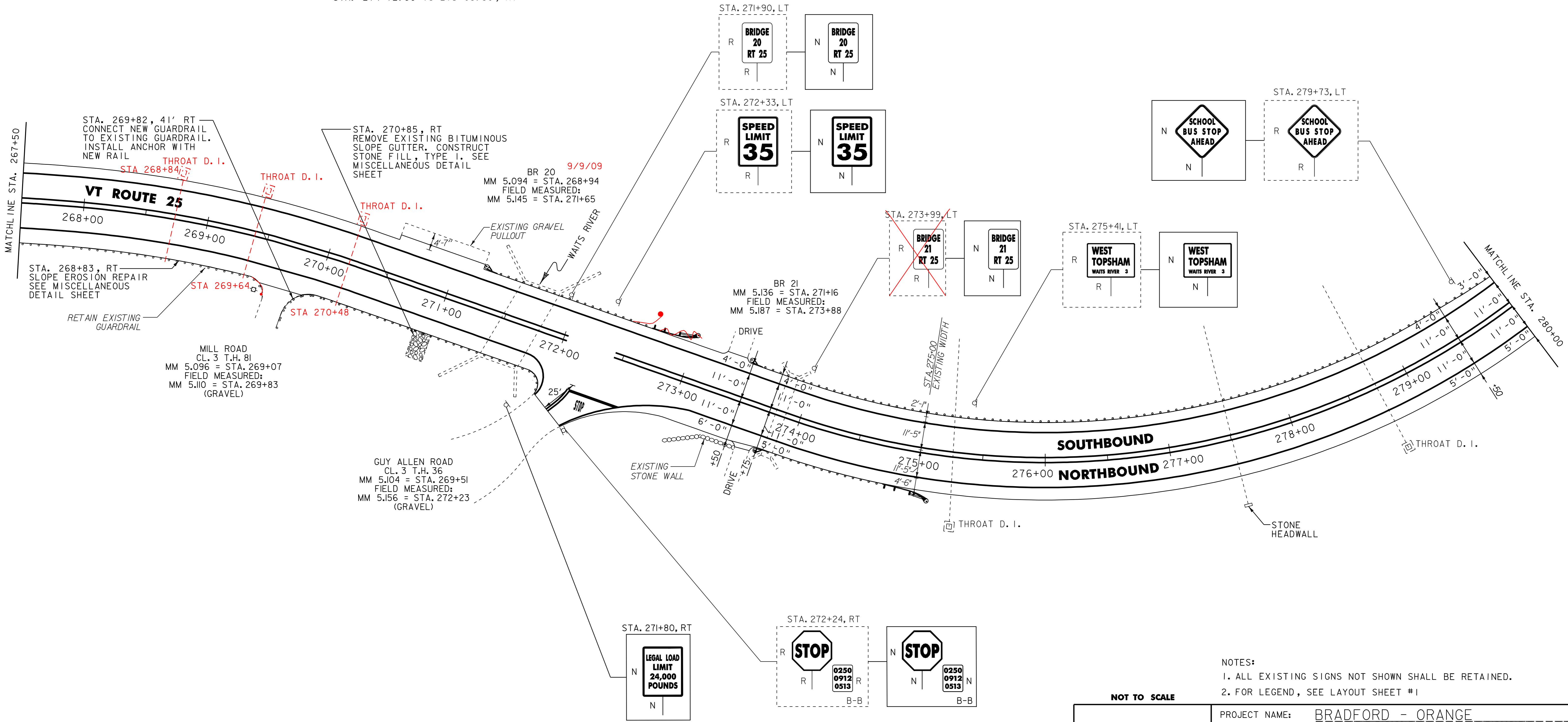
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 267+50 TO 280+00, SOLID LT & RT
 STA. 272+23, DOUBLE SOLID RT (T.H. 36)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 267+50 TO 280+00, SOLID LT & RT
 STA. 272+23, DOUBLE SOLID RT (T.H. 36)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 272+23, RT (T.H. 36)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 272+23, RT - "STOP"~~

675.50 REMOVING SIGNS
 AS SHOWN - 7



NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #34

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i34.i	SHEET 51 OF 84



604.412, 604.415, OR 604.418 REHAB.
 DI'S, CB'S OR MH'S, CLASS I, ~~OR~~
 STA. 281+25, RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. ~~281+83~~ TO 292+00, LT
 280+00

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
 STA. ~~280+00 TO 281+83~~, LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 280+00 TO 292+00, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 280+00 TO 292+00, SOLID LT & RT
 STA. 291+19, DOUBLE SOLID RT (T.H. 25)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 280+00 TO 292+00, SOLID LT & RT
 STA. 291+19, DOUBLE SOLID RT (T.H. 25)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
 STA. 291+19, RT (T.H. 25)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 291+19, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 280+00 TO 292+00, SOLID LT & RT
 STA. 291+19, DOUBLE SOLID RT (T.H. 25)

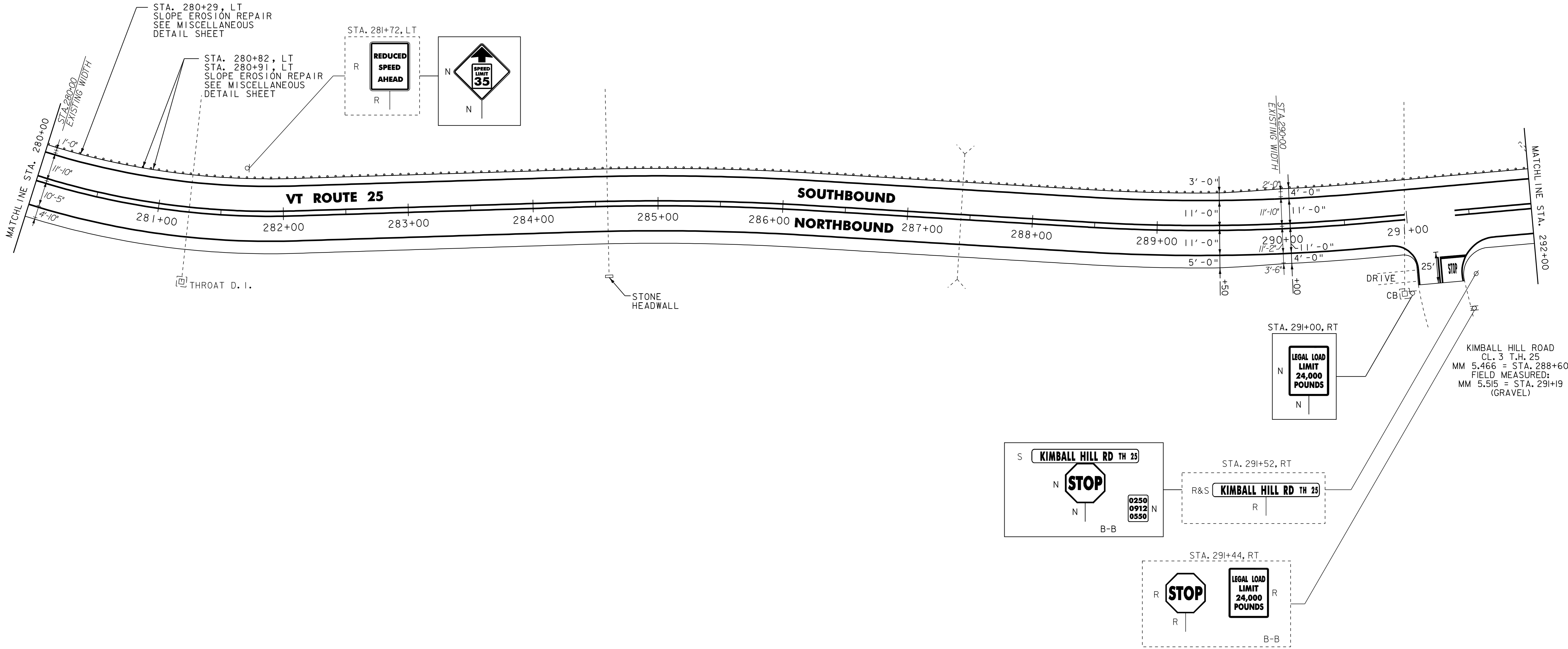
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 280+00 TO 292+00, SOLID LT & RT
 STA. 291+19, DOUBLE SOLID RT (T.H. 25)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 291+19, RT (T.H. 25)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 291+19, RT - "STOP"

675.50 REMOVING SIGNS
 AS SHOWN - 4

675.60 ERECTING SALVAGED SIGNS
 AS SHOWN - 1



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #35

PROJECT NAME: BRADFORD - ORANGE
 PROJECT NUMBER: STP 2213(I)

FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
 PROJECT LEADER: JLL DRAWN BY: STANTEC
 DESIGNED BY: STANTEC CHECKED BY: JLL
 IPARM FILE: p99b178i35.i SHEET 52 OF 84



525.60 BRIDGE RAILING REPAIR, TYPE III
 STA. 300+77 TO 301+27, LT
 STA. 301+06 TO 301+56, RT

604.412, 604.415, OR 604.418 REHAB.
 DI'S, CB'S OR MH'S, CLASS I, ~~++~~ OR ~~+++~~
 STA. 293+55, RT
 STA. 298+50, RT

616.35 TREATED TIMBER CURB
~~STA. 300+30 TO 303+00, RT~~

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 292+00 TO 294+16.13, LT
~~STA. 298+64.5 TO 300+52, LT~~
 STA. 300+14 TO 300+81, RT
 STA. 301+52 TO 302+03, LT
 STA. 301+81 TO 303+50, RT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
 STA. 300+52 TO 300+77, LT
 STA. 300+81 TO 301+06, RT
 STA. 301+27 TO 301+52, LT
 STA. 301+56 TO 301+81, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 294+16.13 TO 294+53.63, LT
 STA. 298+27 TO 298+64.5, LT

621.60 ANCHOR FOR STEEL BEAM RAIL
~~STA. 300+14, RT 300+04~~
~~STA. 302+03, LT 302+16.5~~

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 STA. 292+00 TO 294+58, LT
 STA. 298+25 TO 301+91, LT
 STA. 300+15 TO 303+50, RT

STA 300+87.5 TO 300+00 RT
 STA 301+50 TO 301+75 RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 292+00 TO 303+50, SOLID LT & RT
 STA. 299+52, DOUBLE SOLID RT (T.H. 24)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 STA. 292+00 TO 303+50, SOLID LT & RT
 STA. 299+52, DOUBLE SOLID RT (T.H. 24)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
 STA. 299+52, RT (T.H. 24)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 299+52, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 292+00 TO 303+50, SOLID LT & RT
 STA. 299+52, DOUBLE SOLID RT (T.H. 24)

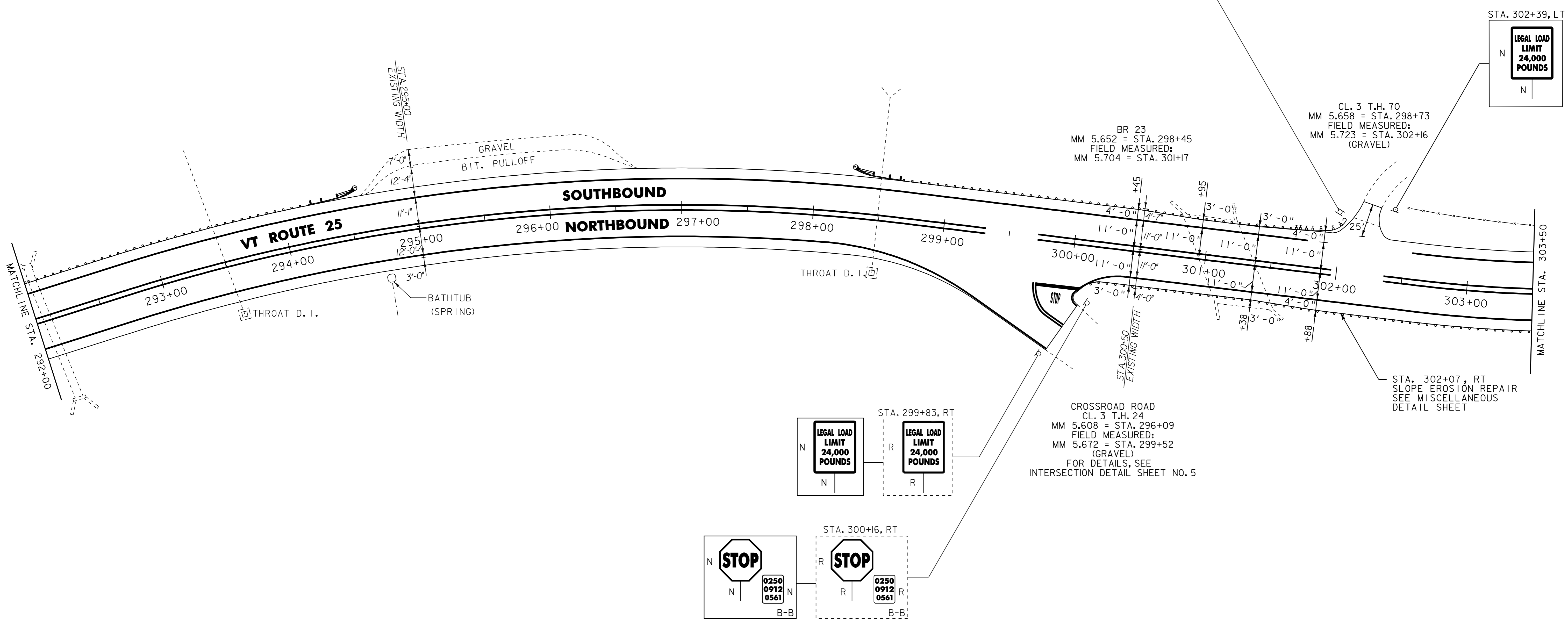
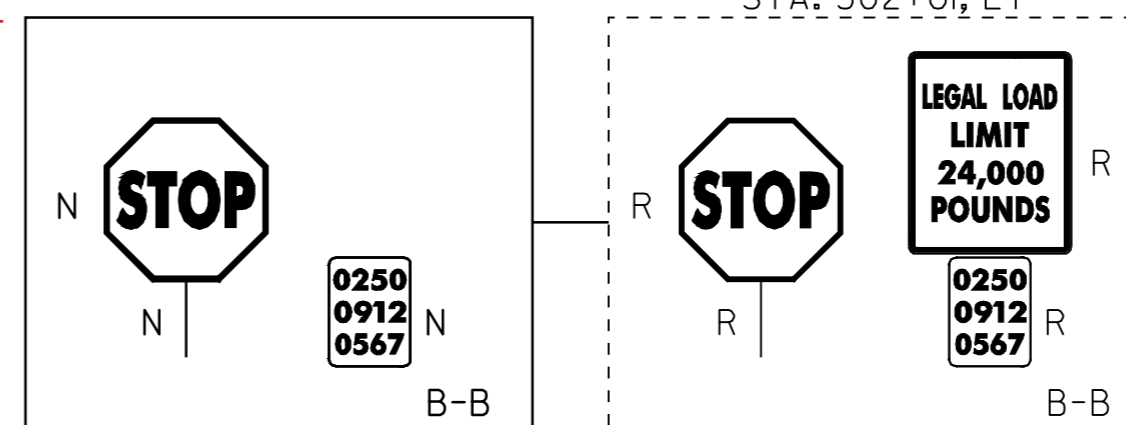
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 292+00 TO 303+50, SOLID LT & RT
 STA. 299+52, DOUBLE SOLID RT (T.H. 24)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 299+52, RT (T.H. 24)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 299+52, RT - "STOP"~~

675.50 REMOVING SIGNS
 AS SHOWN - 6

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' POSTS
 STA 298+64 TO 300+52 LT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #36



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i36.i	SHEET 53 OF 84

604.412, 604.415, OR 604.418 REHAB.
D.I.'S, CB'S OR MH'S, CLASS I, II OR III
STA. 307+02, LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 303+50 TO 305+18.5, RT 310+00
~~STA. 308+56 TO 310+43.5, RT~~
STA. 310+85 TO 315+50, RT
310+00

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 305+18.5 TO 308+56, RT
310+00 310+64

621.60 ANCHOR FOR STEEL BEAM
STA. 310+43.5, RT
STA. 310+85, RT

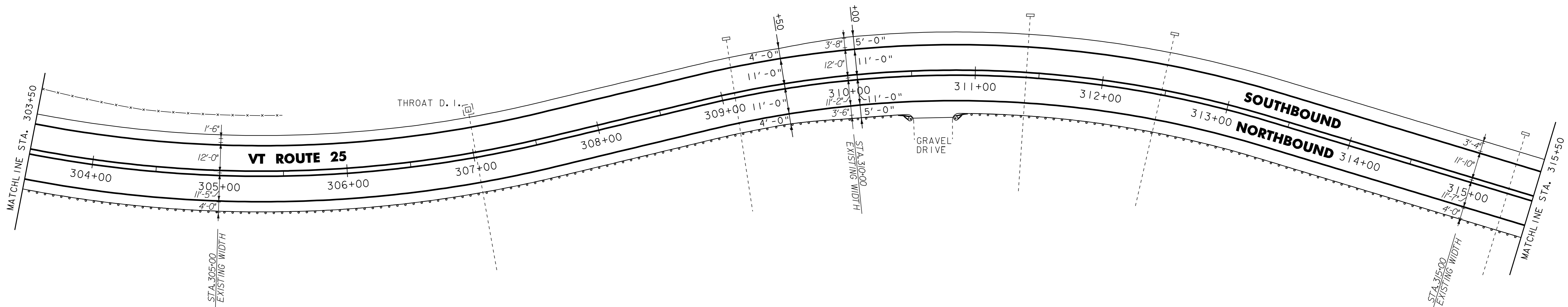
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 303+50 TO 310+49, RT
STA. 310+83 TO 315+50, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 303+50 TO 315+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 303+50 TO 315+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 303+50 TO 315+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 303+50 TO 315+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #37



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i37.i	SHEET 54 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 315+50 TO 319+97.5, RT

621.60 ANCHOR FOR STEEL BEAM RAIL
STA. 319+97.5, RT
319+00 RT

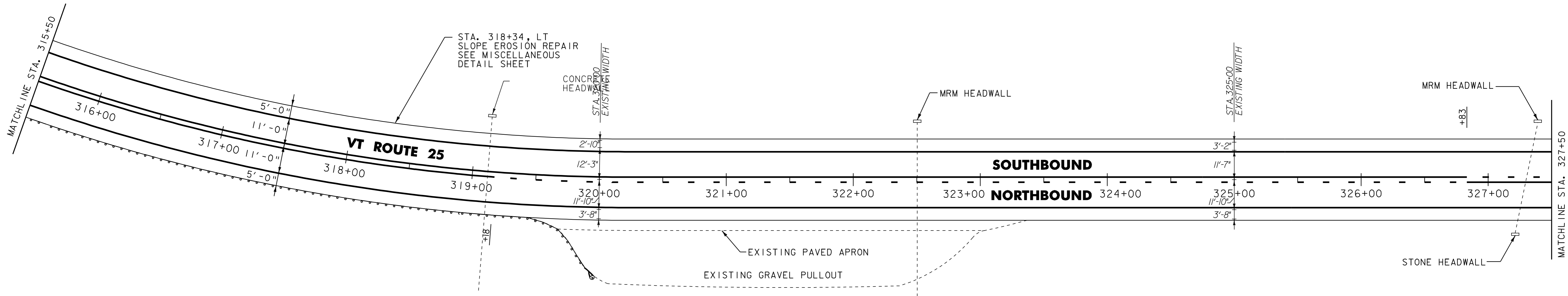
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 315+50 TO 319+28, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 315+50 TO 327+50, SOLID LT & RT

646.21
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
STA. 315+50 TO 319+18, SOLID LT & RT
STA. 319+18 TO 326+83, SOLID LT, DASHED RT
STA. 326+83 TO 327+50, DASHED LT, SOLID RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 315+50 TO 327+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 315+50 TO 319+18, SOLID LT & RT
STA. 219+18 TO 326+83, SOLID LT, DASHED RT
STA. 326+83 TO 327+50, DASHED LT, SOLID RT

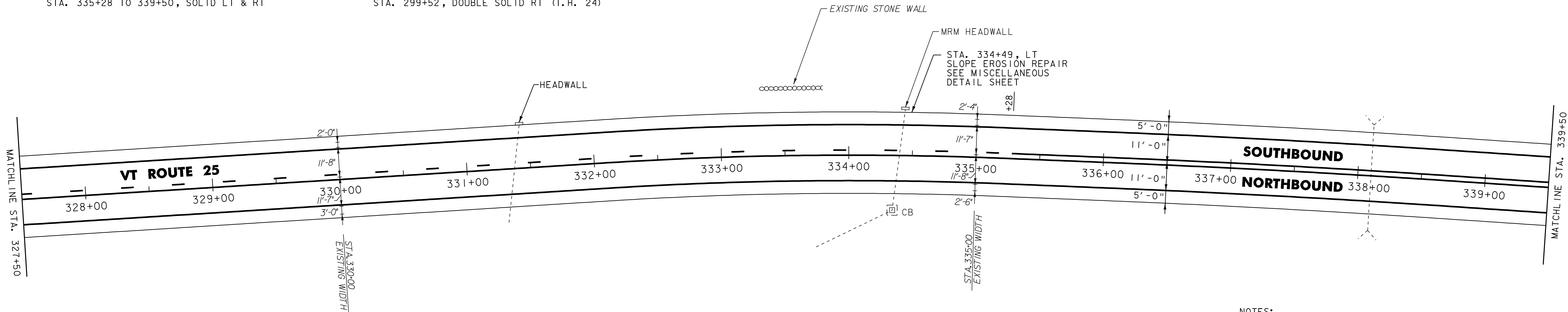


~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 327+50 TO 339+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 327+50 TO 335+28, DASHED LT, SOLID RT
STA. 335+28 TO 339+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 327+50 TO 339+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 292+00 TO 303+50, SOLID LT & RT
STA. 299+52, DOUBLE SOLID RT (T.H. 24)



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #38



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: S1P_2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178i38.i	SHEET 55 OF 84

604.412, 604.415, OR 604.418 REHAB.
 D1'S, CB'S OR MH'S, CLASS I, II OR III
 ORANGE STA. 0+03, LT **NO WORK WAS DONE**

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 ORANGE STA. 1+30 TO 7+00, RT 2+80 TO 3+12.5
 ORANGE STA 3+35.5 TO 7+00 RT
 621.50 MANUFACTURED TERMINAL SECTION, FLARED
 ORANGE STA. 0+92.5 TO 1+30, RT

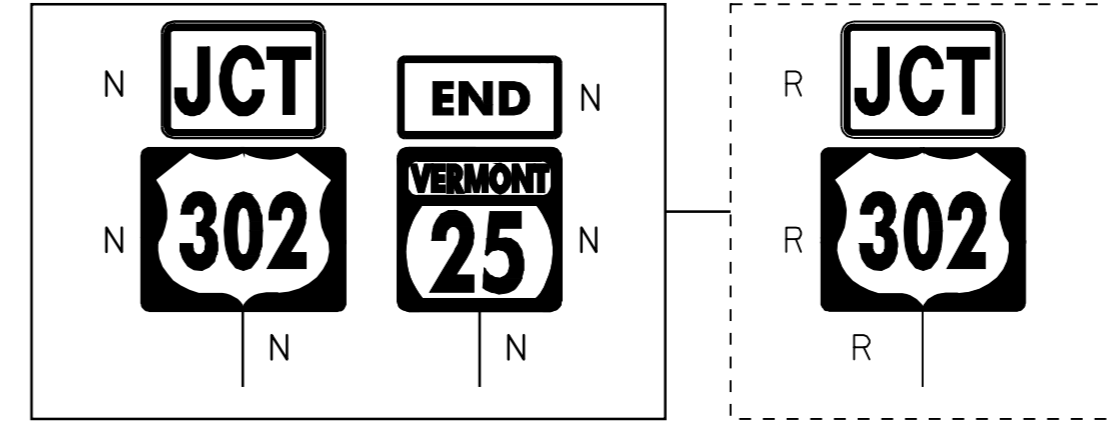
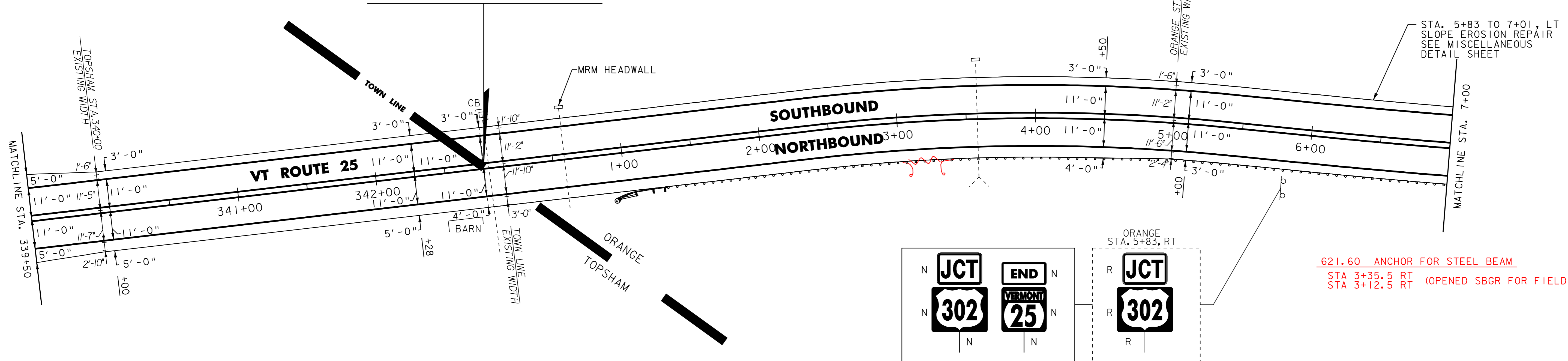
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 ORANGE STA. 3+36 TO 7+00, RT
 646.20
 646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
 TOPSHAM STA. 339+50 TO ORANGE STA. 7+00, SOLID LT & RT

646.21
 646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
 TOPSHAM STA. 339+50 TO ORANGE STA. 7+00, SOLID LT & RT
 646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 TOPSHAM STA. 339+50 TO ORANGE STA. 7+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 TOPSHAM STA. 339+50 TO ORANGE STA. 7+00, SOLID LT & RT
 675.50 REMOVING SIGNS
 AS SHOWN - 2

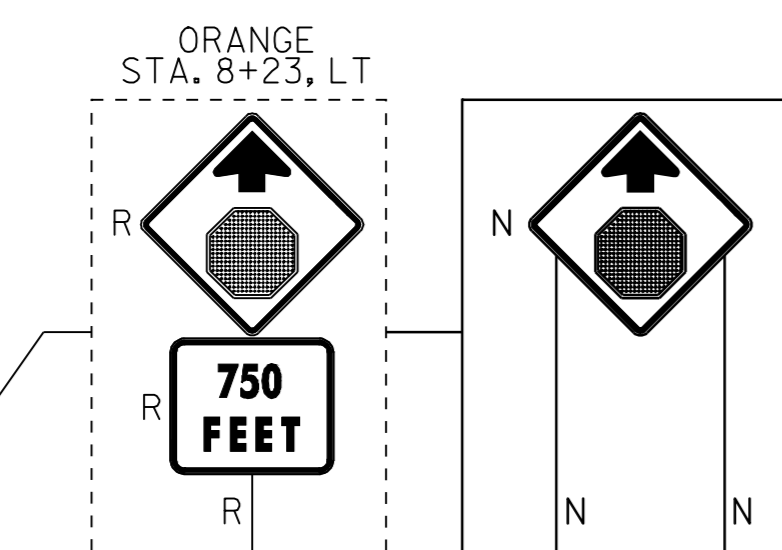
**TOPSHAM STA 342+78 BK=
 ORANGE STA 0+00 AHD**

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' POSTS
 ORANGE STA 1+30 TO 2+80 RT



621.60 ANCHOR FOR STEEL BEAM
 STA 3+35.5 RT
 STA 3+12.5 RT (OPENED SBGR FOR FIELD DRIVE)

STA. 7+90 TO 8+60, LT
 SLOPE EROSION REPAIR
 SEE MISCELLANEOUS
 DETAIL SHEET



621.60 ANCHOR FOR STEEL BEAM
 14+50 LT (REPLACED BCT)

621.80 REMOVAL & DISPOSAL OF GUARDRAIL
 14+50 TO 14+87.5 RT
 14+50 TO 14+75 LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
 ORANGE STA. 7+00 TO 8+80, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
 STA. 8+80 TO 9+17.5, RT
 STA 13+84 TO 14+21.5 RT (REPLACED BCT)
 621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
 ORANGE STA. 7+00 TO 7+33, RT
 646.20
 646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
 STA. 7+00 TO 14+50, SOLID LT & RT
 646.21
 646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
 STA. 7+00 TO 14+50, SOLID LT & RT

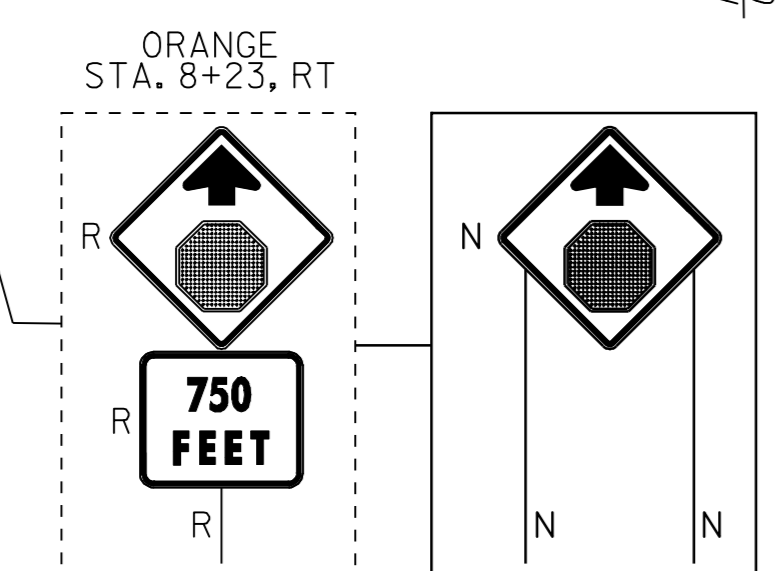
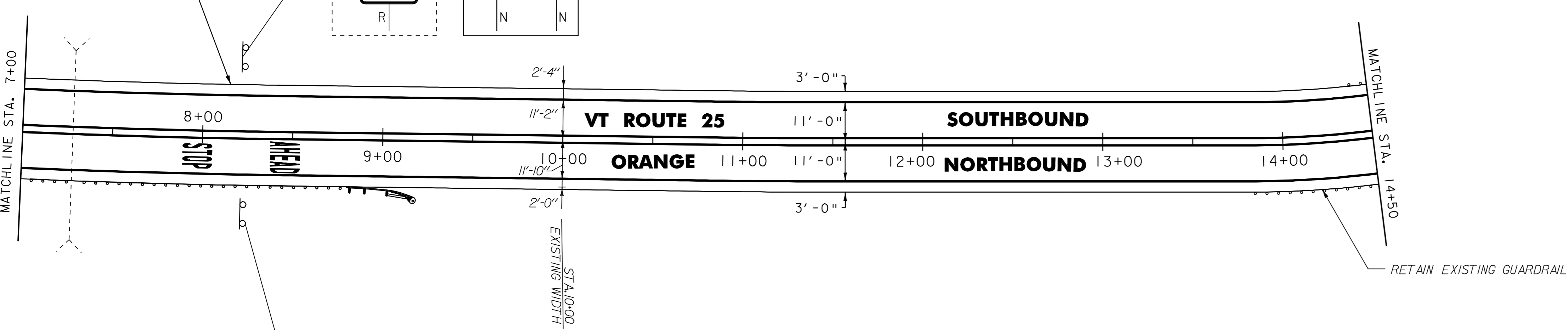
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 8+03, RT - "STOP"
 STA. 8+43, RT - "AHEAD"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 STA. 7+00 TO 14+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 STA. 7+00 TO 14+50, SOLID LT & RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 8+03, RT - "STOP"
 STA. 8+43, RT - "AHEAD"

675.50 REMOVING SIGNS
 AS SHOWN - 4



- NOTES:
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #39

PROJECT NAME: BRADFORD - ORANGE
 PROJECT NUMBER: SIP 2213(I)

FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
 PROJECT LEADER: JLL DRAWN BY: STANTEC
 DESIGNED BY: STANTEC CHECKED BY: JLL
 IPARM FILE: p99b178i39.i SHEET 56 OF 84



646.20 4 INCH WHITE LINE
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 VT ROUTE 25 STA. 14+50 TO STA. 14+94, SOLID LT & RT

646.21 4 INCH YELLOW LINE
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 VT ROUTE 25 STA. 14+50 TO STA. 15+20, DOUBLE SOLID RT

646.26 8 INCH WHITE LINE
~~646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC~~
 STA. 15+13 TO STA. 15+76, RT (TRIANGULAR ISLAND & DIAGONALS)

646.26 24 INCH STOP BAR
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
 STA. 15+00, RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 STA. 15+02, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 VT ROUTE 25 STA. 14+50 TO STA. 14+94, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 VT ROUTE 25 STA. 14+50 TO STA. 15+20, DOUBLE SOLID RT

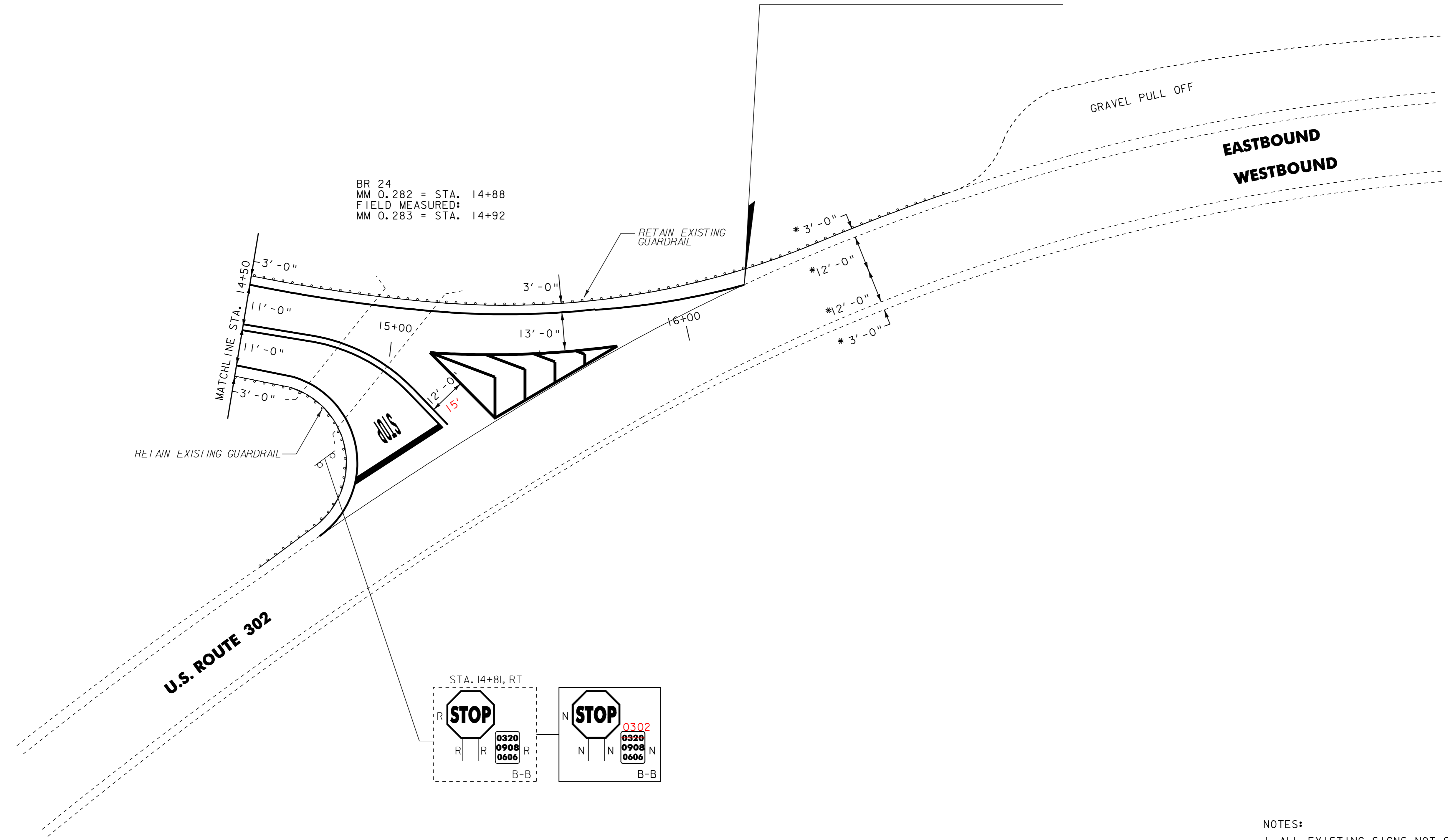
646.642 TEMPORARY 8 INCH WHITE LINE, PAINT
 STA. 15+13 TO STA. 15+76, RT (TRIANGULAR ISLAND & DIAGONALS)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 STA. 15+00, RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 STA. 15+02, RT - "STOP"

675.50 REMOVING SIGNS
 AS SHOWN - 2

END PROJECT STP 2213(1)
STA 16+31.52



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #40	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178140.i	SHEET 57 OF 84



646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 CORINTH:
 STA. 70+24 DOUBLE SOLID RT (T.H. I)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 CORINTH:
 STA. 70+24 DOUBLE SOLID RT (T.H. I)

646.26
~~646.482 DURABLE 24" STOP BAR, THERMOPLASTIC~~
 CORINTH:
 STA. 70+25 RT (T.H. I)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 CORINTH:
 STA. 70+40 RT - "STOP"

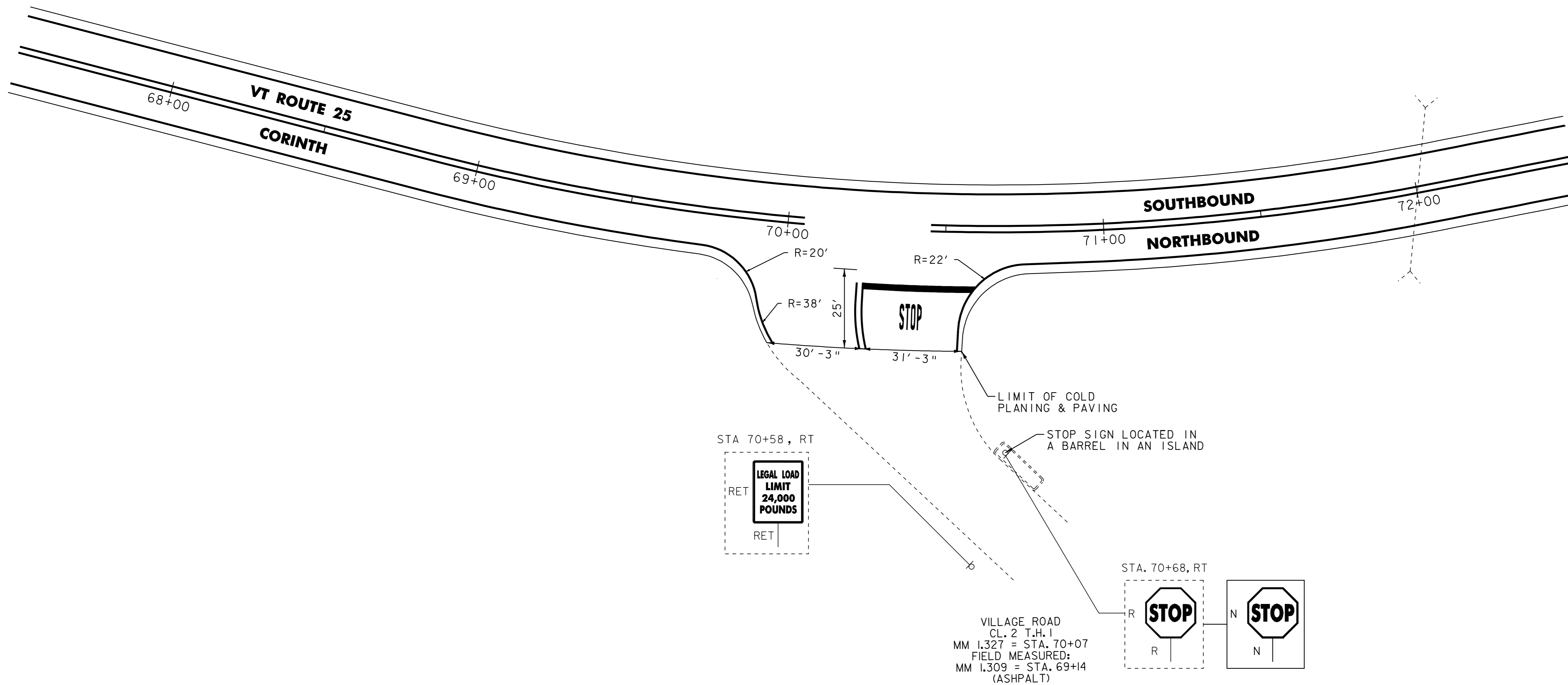
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 CORINTH:
 STA. 70+24 DOUBLE SOLID RT (T.H. I)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 CORINTH:
 STA. 70+24 DOUBLE SOLID RT (T.H. I)

646.682 TEMPORARY 24" STOP BAR, PAINT
 CORINTH:
 STA. 70+25 RT (T.H. I)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 CORINTH:
 STA. 70+40 RT - "STOP"

675.50 REMOVING SIGNS
 AS SHOWN - I



**T.H.1 - VILLAGE ROAD
 CORINTH MM 1.309 = STA. 69+14**

NOTE:

- PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT. BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

**INTERSECTION
 DETAIL SHEET
 NO. 1**

SIGN LEGEND
 R = REMOVE
 S = SALVAGE
 N = NEW
 RET = RETAIN
 B-B = BACK TO BACK
 EXISTING = -----
 NEW = _____



PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	
IPARM FILE: z99b178int01.i	SHEET 58	OF 84

~~621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 74+50 TO 76+65, RT~~

~~621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 76+65 TO 77+02.5, RT
(SEE DRAINAGE AT M.T.S. DETAIL SHEET)~~

~~621.81 REMOVAL AND DISPOSAL OF GUIDE POSTS
STA. 74+50 TO 76+59, RT~~

~~646.20
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
STA. 74+50 TO 86+50, SOLID LT & RT~~

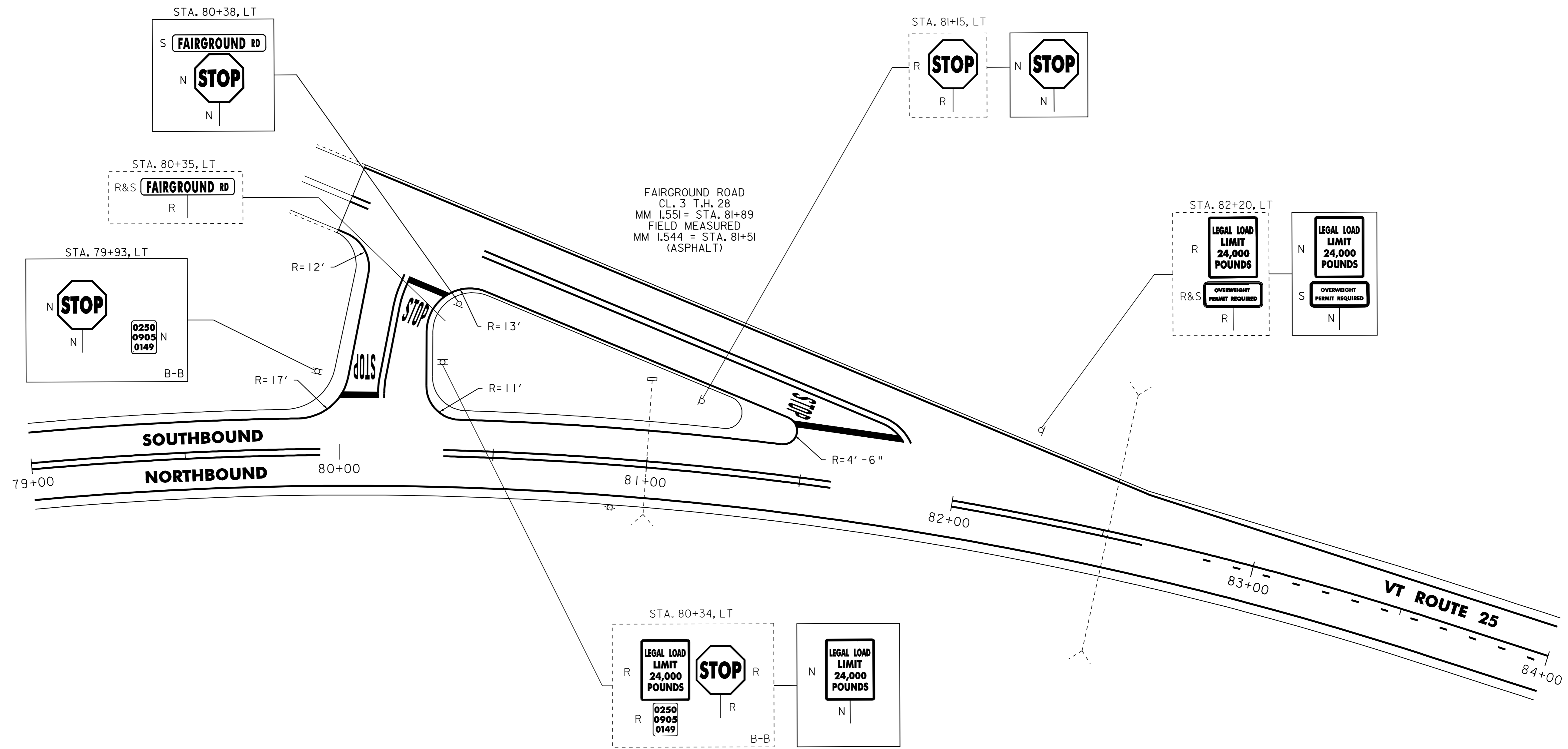
~~646.21
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
STA. 74+50 TO 82+63, SOLID LT & RT
STA. 82+63 TO 86+50, SOLID LT, DASHED RT~~

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 74+50 TO 86+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 74+50 TO 82+63, SOLID LT & RT
STA. 82+63 TO 86+50, SOLID LT, DASHED RT

675.50 REMOVING SIGNS
AS SHOWN - 7

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 2



**T.H.28 - FAIRGROUND ROAD
CORINTH MM 1.544 = STA. 81+51**

NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT. BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = _____
NEW = _____



**INTERSECTION
DETAIL SHEET
NO. 2**

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(I)
FILE NAME: p99b178.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: z99b178int02.i
PLOT DATE: 28-MAY-2010 13:4
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 59 OF 84

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
 CORINTH:
 STA. 114+00 DOUBLE SOLID LT (T.H. 4)

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 CORINTH:
 STA. 114+00 DOUBLE SOLID LT (T.H. 4)

675.50 REMOVING SIGNS
 AS SHOWN - 4

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
 CORINTH:
 STA. 113+62 DOUBLE SOLID LT (T.H. 4)

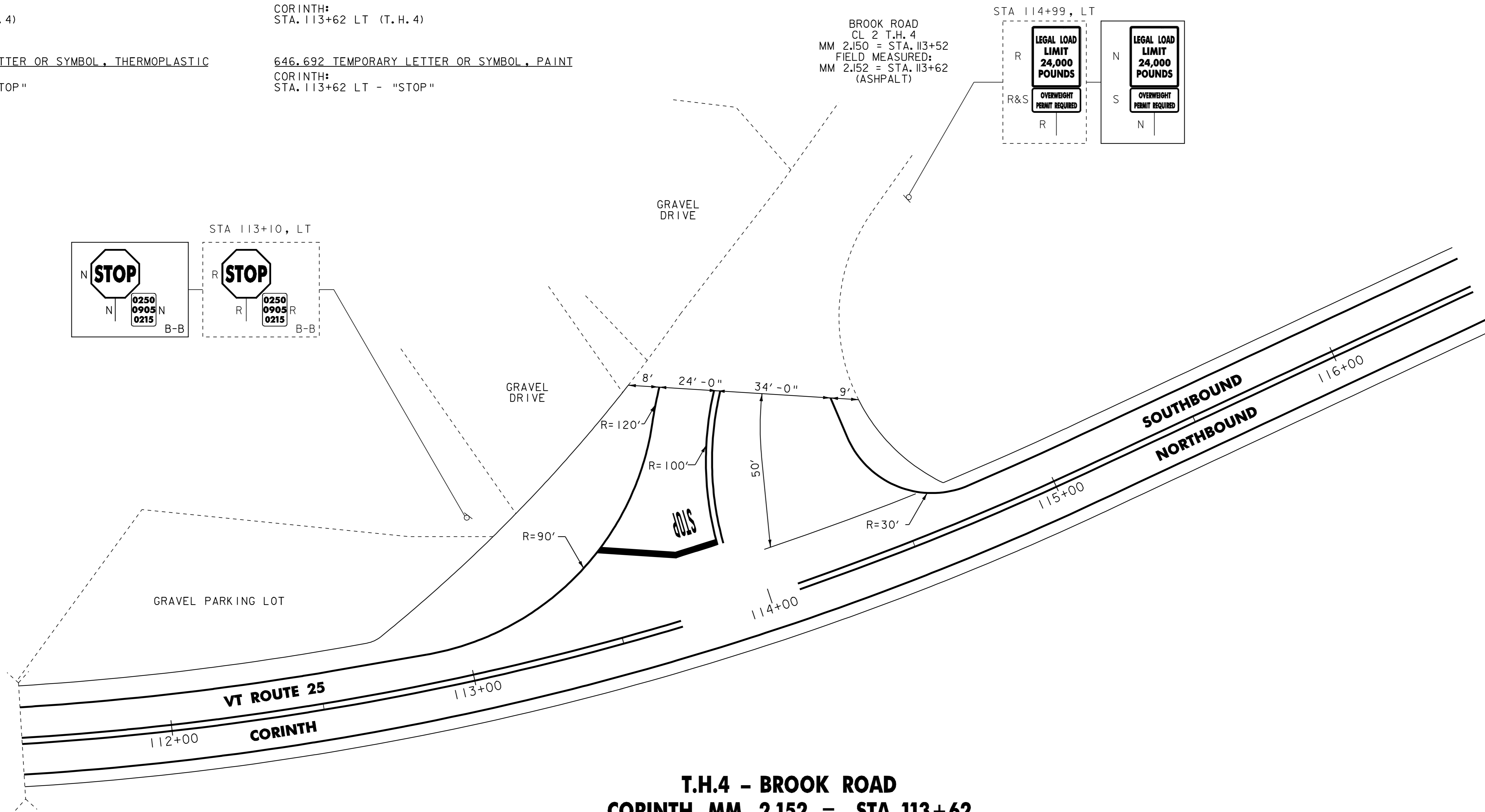
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 CORINTH:
 STA. 113+62 DOUBLE SOLID LT (T.H. 4)

646.26
~~646.482 DURABLE 24" STOP BAR, THERMOPLASTIC~~
 CORINTH:
 STA. 113+62 LT (T.H. 4)

646.682 TEMPORARY 24" STOP BAR, PAINT
 CORINTH:
 STA. 113+62 LT (T.H. 4)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 CORINTH:
 STA. 113+62 LT - "STOP"

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 CORINTH:
 STA. 113+62 LT - "STOP"



**T.H.4 - BROOK ROAD
 CORINTH MM 2.152 = STA. 113+62**

NOTE:

- PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT. BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

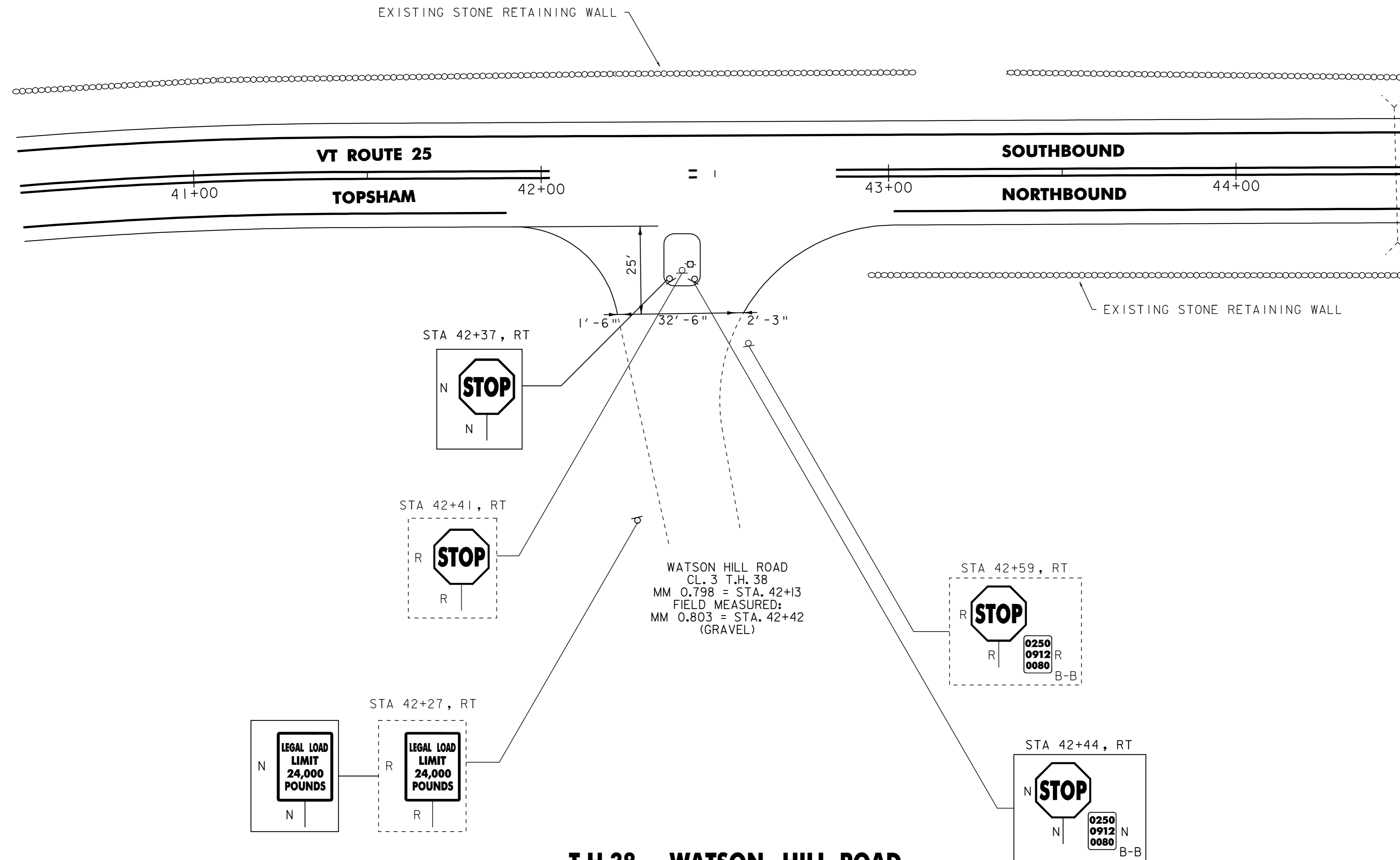
NOT TO SCALE

SIGN LEGEND
 R = REMOVE
 S = SALVAGE
 N = NEW
 RET = RETAIN
 B-B = BACK TO BACK
 EXISTING = _____
 NEW = _____



**INTERSECTION
 DETAIL SHEET
 NO. 3**

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 60 OF 84
IPARM FILE: z99b178int03.i		



T.H.38 - WATSON HILL ROAD
TOPSHAM MM 0.803 = STA. 42+42

NOTE:

- PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT. BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = _____
NEW = _____



**INTERSECTION
DETAIL SHEET
NO. 4**

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 61 OF 84
IPARM FILE: z99b178int04.i		

646.20
~~646.402 DURABLE~~ 4 INCH WHITE LINE, THERMOPLASTIC
 TOPSHAM:
 STA. 299+52 DOUBLE SOLID RT (T.H.24)

646.21
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, THERMOPLASTIC
 TOPSHAM:
 STA. 299+52 DOUBLE SOLID RT (T.H.24)

646.26
~~646.482 DURABLE~~ 24" STOP BAR, THERMOPLASTIC
 TOPSHAM:
 STA. 299+52 RT (T.H.24)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 TOPSHAM:
 STA. 299+52 RT - "STOP"

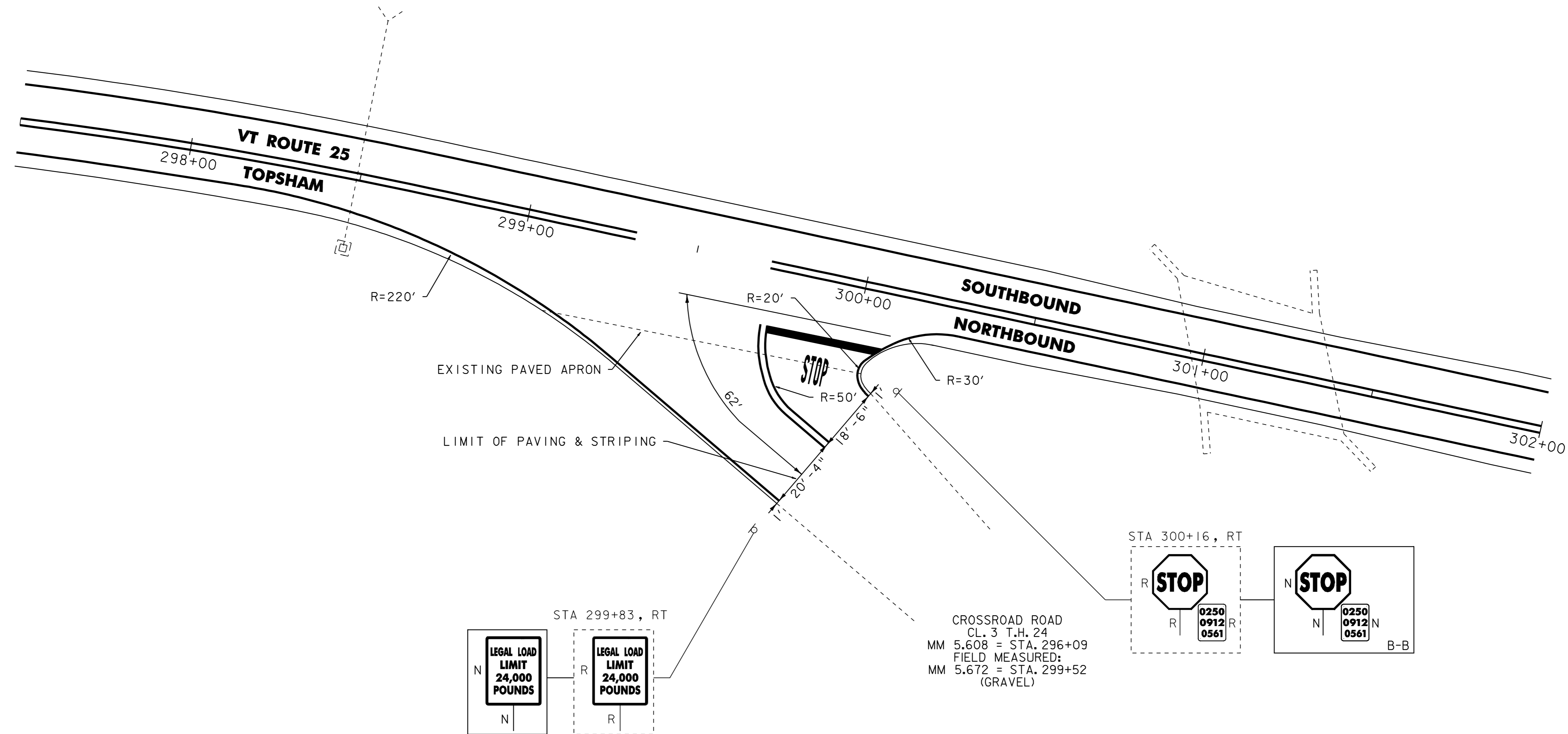
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 TOPSHAM:
 STA. 299+52 DOUBLE SOLID RT (T.H.24)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 TOPSHAM:
 STA. 299+52 DOUBLE SOLID RT (T.H.24)

646.682 TEMPORARY 24" STOP BAR, PAINT
 TOPSHAM:
 STA. 299+52 RT (T.H.24)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 TOPSHAM:
 STA. 299+52 RT - "STOP"

675.50 REMOVING SIGNS
 AS SHOWN - 3



**T.H.24 - CROSSROAD ROAD
 TOPSHAM MM 5.672 = STA. 299+52**

NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT. BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

SIGN LEGEND
 R = REMOVE
 S = SALVAGE
 N = NEW
 RET = RETAIN
 B-B = BACK TO BACK
 EXISTING = _____
 NEW = _____



**INTERSECTION
 DETAIL SHEET
 NO. 5**

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	
IPARM FILE: z99b178int05.i		SHEET 62 OF 84

TRAFFIC SIGN SUMMARY SHEET 02

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST	NO. OF POSTS	NEW SIGN POSTS													REMARKS	SIGN DETAIL								
		E A	WIDTH (In)	HEIGHT (In)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (In)			TUBULAR ALUMINUM Ø (In)			TUBULAR STEEL Ø (In)				W-SHAPE STEEL			FREQUENTLY REQUIRED	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER			
											lb/ft			1.75	2.0	2.5	3.0	4.0	4.0 MOD	FOUND-ATION	3.0	3.5		4.0	5.0	FTG. SIZE				WEIGHT	POST SIZE	
											1.12	2.0	3.0	1.88	lb/ft		1.3	1.7	1.7		lb/ft				24"	30"						
114+99, LT		I	24	30	5.00				1				X																SIGN ID CODE VR-017	E-141		
																													MOUNT SALVAGED SIGN BELOW NEW SIGN ON NEW POST	-		
191+50, LT		I	30	30	6.25				1				X																SIGN ID CODE RI-1	E-143		
191+92, LT		I	24	30	5.00				1				X																SIGN ID CODE VR-017	E-141		
192+76, LT		I	30	30	6.25				1				X																SIGN ID CODE RI-1	E-143		
		I	6	10	0.42																								SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN	E-138		
192+85, LT		I	24	30	5.00				1				X																SIGN ID CODE VR-017	E-141		
198+00, LT		I	30	30	6.25				1				X																SIGN ID CODE VW-054	E-154		
200+00, LT		I	36	36	9.00				2				X																	69		
		I	48	13	4.33																									69		
204+76, RT									1				X																	-		
205+82, LT		I	6	8	0.33				1				X																SIGN ID CODE VD-701	E-134		
206+25, RT		I	24	30	5.00				1				X																SIGN ID CODE VR-017	E-141		
206+55, RT		I	30	30	6.25				1				X																SIGN ID CODE RI-1	E-143		
		I	6	10	0.42																								SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN	E-138		

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VAOT "SIGN POST DESIGN GUIDELINE."

TOTALS	SF	SF	EA.	SF									FT	FT	FT	EA	LB	LB	LB													
	59.50		2										180																			



PROJECT NAME:	BRADFORD-ORANGE		
PROJECT NUMBER:	STP_2213(1)		
FILE NAME:	p99b178.dgn	PLOT DATE:	28-MAY-2010 13:4
PROJECT LEADER:	JLL	DRAWN BY:	STANTEC
DESIGNED BY:	STANTEC	CHECKED BY:	JLL
IPARM FILE:	p99b178tss02.i	SHEET	64 OF 84

TRAFFIC SIGN SUMMARY SHEET 06

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS														REMARKS	SIGN DETAIL										
		E A	WIDTH (In)	HEIGHT (In)	"A"	"B"	SALV SIGN	SALV TIS	RETA IN	SALV AGE	NO. OF POSTS	FLANGED CHANNEL			SQUARE STEEL (In)			TUBULAR ALUMINUM Ø (In)			TUBULAR STEEL Ø (In)				W-SHAPE STEEL			REQUI RE D	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER					
												lb/ft			1.75	2.0	2.5	ANCH OR	S LEEVE	3.0	4.0	4.0 MOD	FOUND- ATION		3.0	3.5	4.0				5.0	FTG. SIZE		WEIGHT	POST SIZE
												1.12	2.0	3.0	1.88	2.42	3.35			1.3	1.7	1.7			7.6	9.0	10.8				14.6	24"	30"		
TOPSHAM (CONT.) 247+75, LT	LEGAL LOAD LIMIT 24,000 POUNDS	I	24	30	5.00					1				X		X												SIGN ID CODE VR-017	E-141						
271+80, RT	LEGAL LOAD LIMIT 24,000 POUNDS	I	24	30	5.00					1				X		X												SIGN ID CODE VR-017	E-141						
271+90, LT	BRIDGE 20 VT 25	I	6	8	0.33					1			X			X												SIGN ID CODE VD-701	E-134						
272+24, RT	STOP 0250 0912 0513	I	30	30	6.25					1				X		X												SIGN ID CODE RI-1	E-143						
		I	6	10	0.42																							SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN	E-138						
272+33, LT	SPEED LIMIT 35	I	24	30	5.00					1				X		X												SIGN ID CODE R2-1	E-142						
273+99, LT	BRIDGE 21 VT 25	I	6	8	0.33					1			X			X												SIGN ID CODE VD-701	E-134						
275+41, LT	WEST TOPSHAM WAITS RIVER 3	I	30	18	3.75					1				X		X													E-128B						
279+73, LT	SCHOOL BUS STOP AHEAD	I	30	30	6.25					1				X		X												SIGN ID CODE S3-1	E-153						
281+72, LT	SPEED LIMIT 35	I	36	36	9.00					2				X		X												70							
291+00, RT	LEGAL LOAD LIMIT 24,000 POUNDS	I	24	30	5.00					1				X		X												SIGN ID CODE VR-017	E-141						
291+52, RT	KIMBALL HILL RD TH 25 STOP 0250 0912 0550	I	30	30	6.25					1				X		X													-	-					
		I	6	10	0.42																								MOUNT MILE MARKER PLAQUE BACK TO BACK AND BELOW STOP SIGN.	E-138					
299+83, RT	LEGAL LOAD LIMIT 24,000 POUNDS	I	24	30	5.00					1				X		X												SIGN ID CODE VR-017	E-141						
300+16, RT	STOP 0250 0912 0561	I	30	30	6.25					1				X		X													SIGN ID CODE RI-1	E-143					
		I	6	10	0.42																								SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN	E-138					
302+01, LT	STOP 0250 0912 0567	I	30	30	6.25					1				X		X													SIGN ID CODE RI-1	E-143					
		I	6	10	0.42																								SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN	E-138					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VAOT "SIGN POST DESIGN GUIDELINE."

TOTALS	SF	SF	EA.	SF																											
	71.34		1																												



PROJECT NAME:	BRADFORD-ORANGE
PROJECT NUMBER:	STP_2213(1)
FILE NAME:	p99b178.dgn
PLOT DATE:	28-MAY-2010 13:4
PROJECT LEADER:	JLL
DRAWN BY:	STANTEC
DESIGNED BY:	STANTEC
CHECKED BY:	JLL
IPARM FILE:	p99b178tss06.i
SHEET	68 OF 84

TRAFFIC SIGN SUMMARY SHEET 07

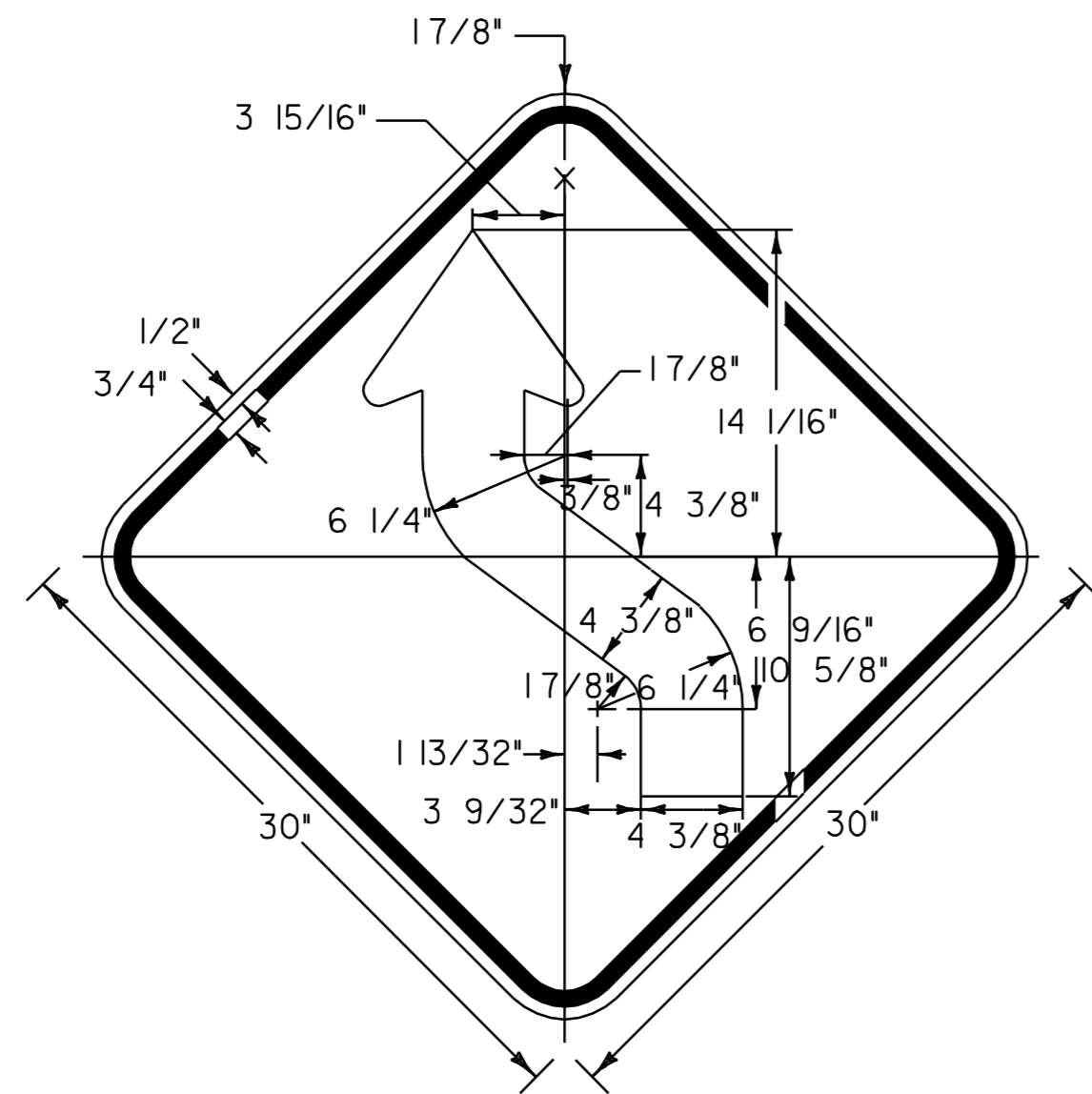
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN SALVAGE	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL			
				"A"	"B"	SALV SIGN	SALV TIS			FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL		DETAIL ON SHEET NUMBER		STD. SHEET NUMBER			
		lb/ft								1.75	2.0	2.5	3.0	4.0	4.0 MOD	FOUND-ATION	3.0	3.5	4.0	5.0	FTG. SIZE		WEIGHT	POST SIZE						
		1.12	2.0	3.0	1.88	2.42	3.35			1.3	1.7	1.7	lb/ft				24"	30"												
302+39, LT		24	30	5.00					1				X		X												SIGN ID CODE VR-017	E-141		
ORANGE 5+83, RT		21 24 30 24	15 12 24 24	2.19 2.00 5.00 4.00					2				X		X										X	SIGN ID CODE M2-1 SIGN ID CODE MI-4	E-136A E-136B E-136A E-136B			
8+23, LT		36	36	9.00					2				X		X												SIGN ID CODE W3-1	E-150		
8+23, RT		36	36	9.00					2				X		X												SIGN ID CODE W3-1	E-150		
14+81, RT		36 6	36 10	9.00 0.42					2				X		X												SIGN ID CODE RI-1 SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN	E-143 E-138		
SHEET TOTAL				45.61									135																	
TSS SHEET 1 SUBTOTALS				69.01		4							30	180																
TSS SHEET 2 SUBTOTALS				59.50		2						30	150																	
TSS SHEET 3 SUBTOTALS				71.17		1							165																	
TSS SHEET 4 SUBTOTALS				79.01								30	210																	
TSS SHEET 5 SUBTOTALS				59.24		1						75	150																	
TSS SHEET 6 SUBTOTALS				71.34		1						30	195																	
TSS SHEET 7 SUBTOTALS				45.61									135																	
PROJECT SUBTOTALS				454.88		9						195	1185																	
ROUNDING				5.12		-						5	15																	

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VAOT "SIGN POST DESIGN GUIDELINE."

TOTALS	SF	SF	EA.	SF							FT	EA.	LB	EA.	EA.	LB
460			9								1400					



PROJECT NAME: BRADFORD-ORANGE
PROJECT NUMBER: STP_2213(1)
FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL DRAWN BY: STANTEC
DESIGNED BY: STANTEC CHECKED BY: JLL
IPARM FILE: p99b178tss07.i SHEET 69 OF 84

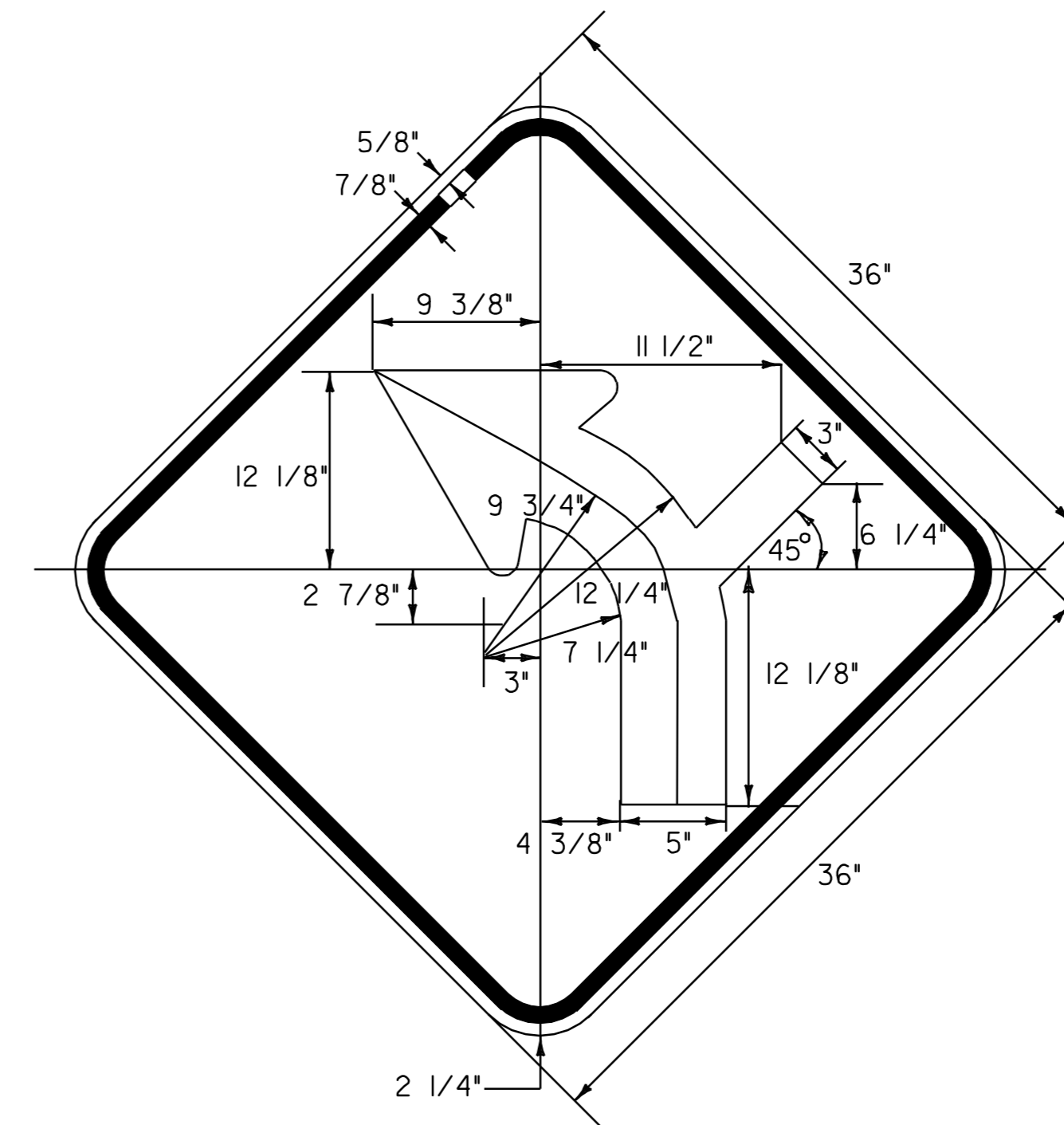


W1-4L

BLACK SYMBOL & BORDER
WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATION

CORINTH STA. 26+00, RT

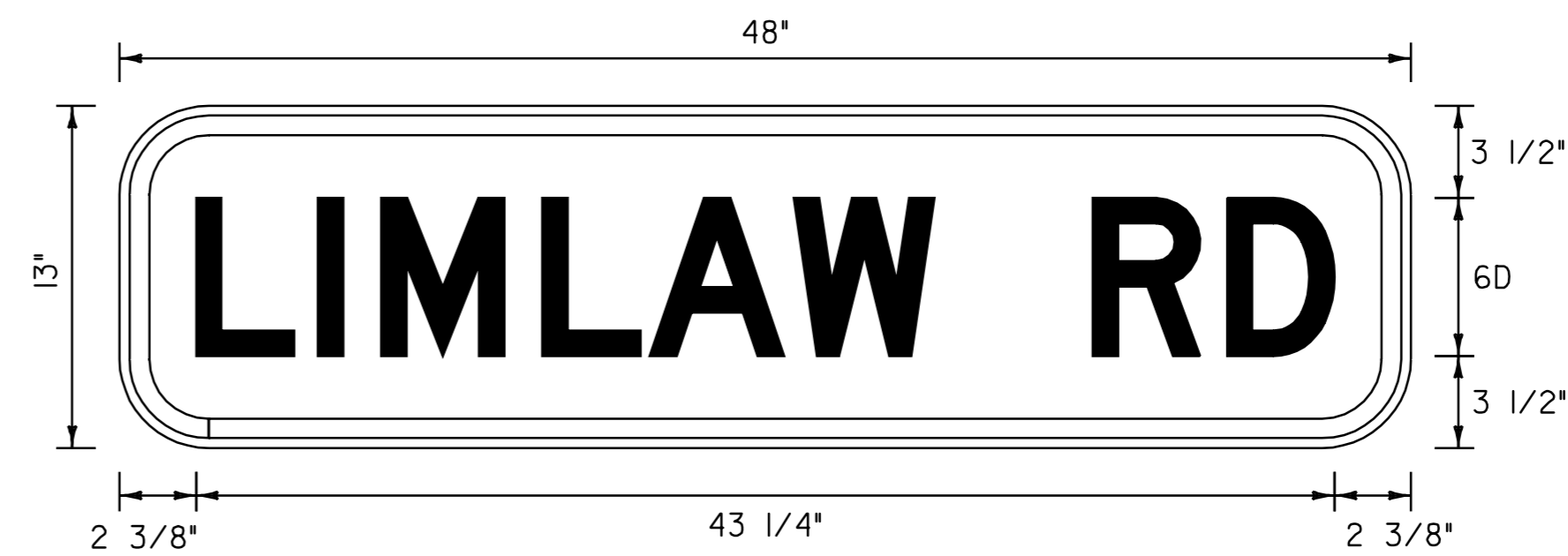
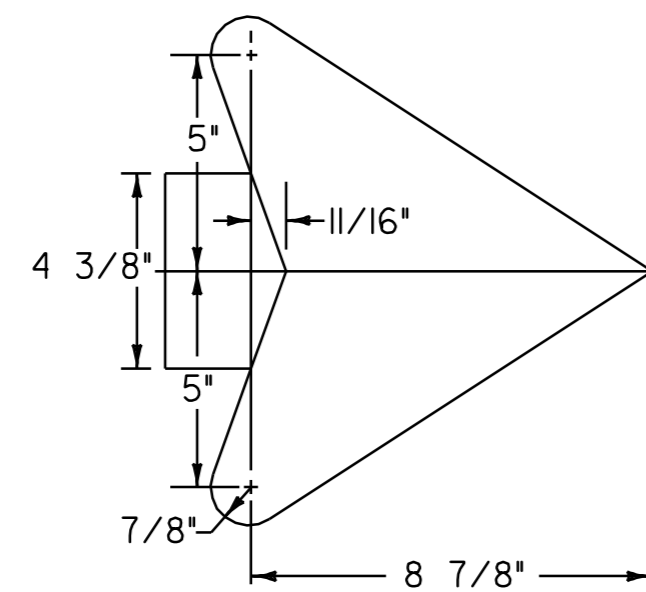


W1-10R

BLACK SYMBOL & BORDER
WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATION

CORINTH STA. 200+00, LT

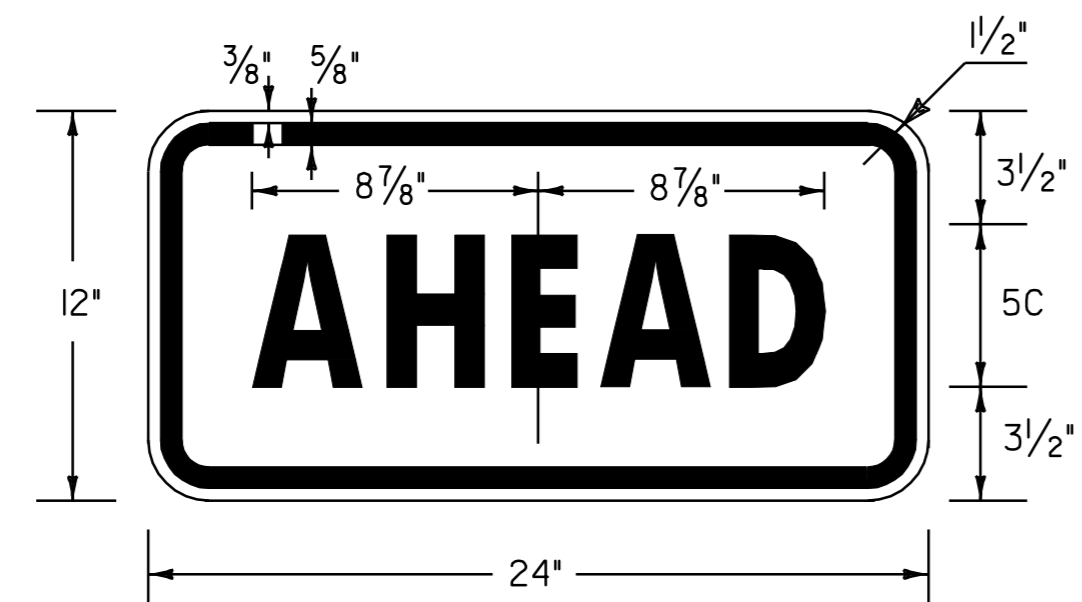


W16-8a

BLACK SYMBOL & BORDER
WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATION

CORINTH STA. 200+00, LT



BLACK SYMBOL & BORDER
WITH YELLOW (RETROREFLECTIVE) BACKGROUND
FLUORESCENT YELLOW GREEN (RETROREFLECTIVE) OPTIONAL
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATION

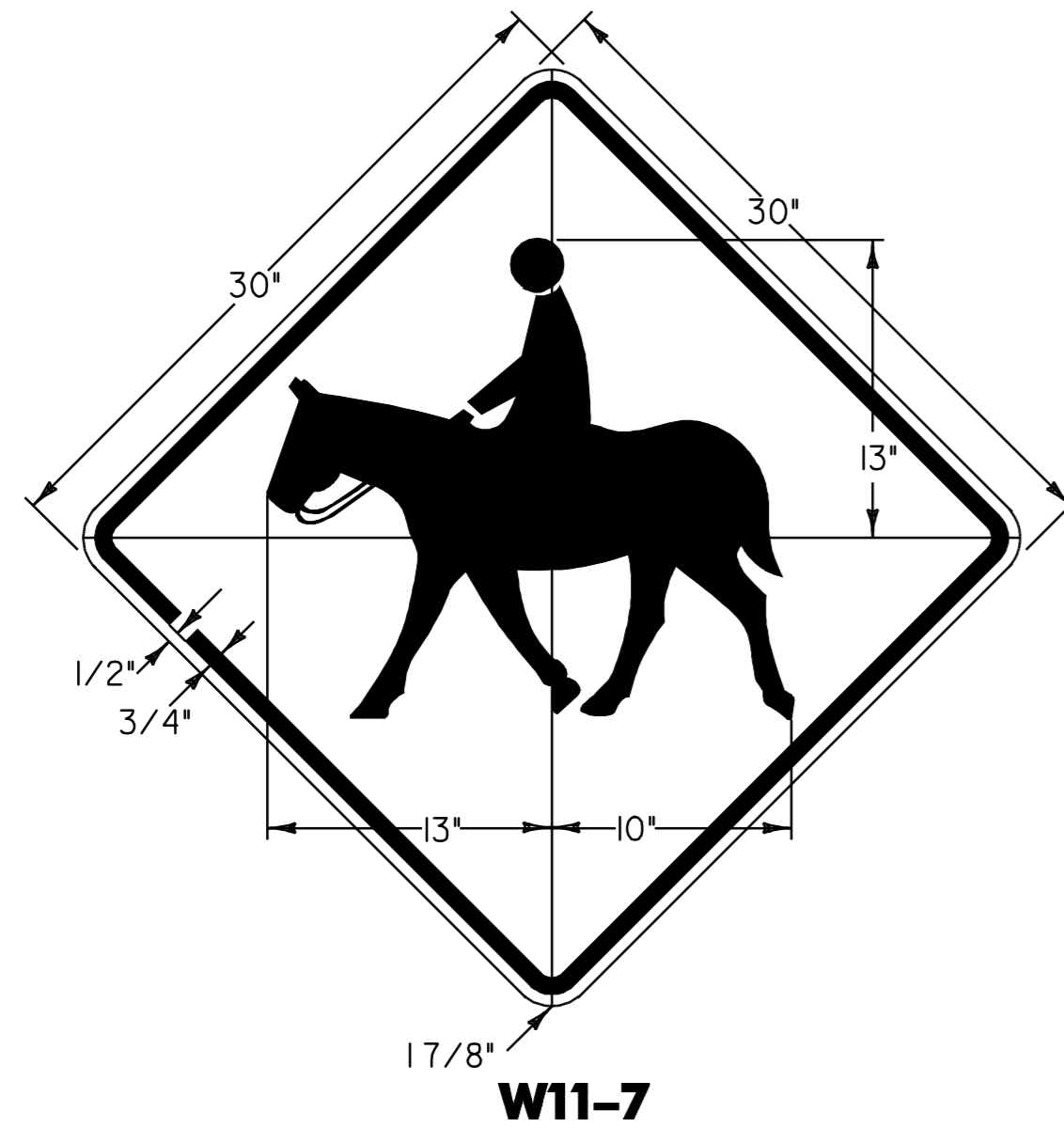
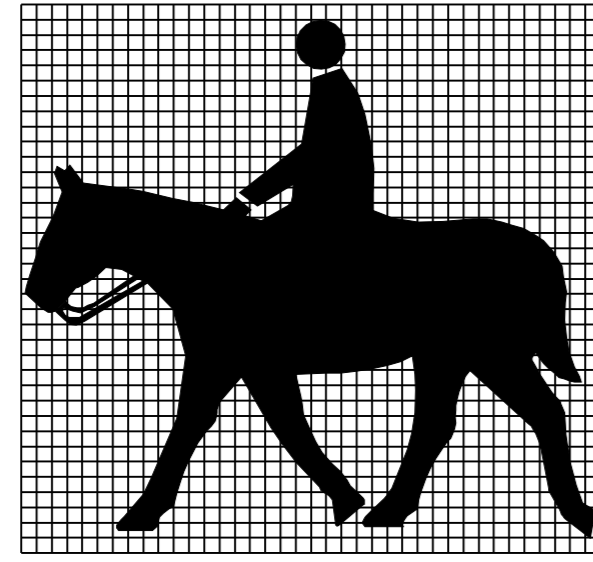
TOPSHAM STA. 0+41, RT
TOPSHAM STA. 10+06, LT

NOT TO SCALE



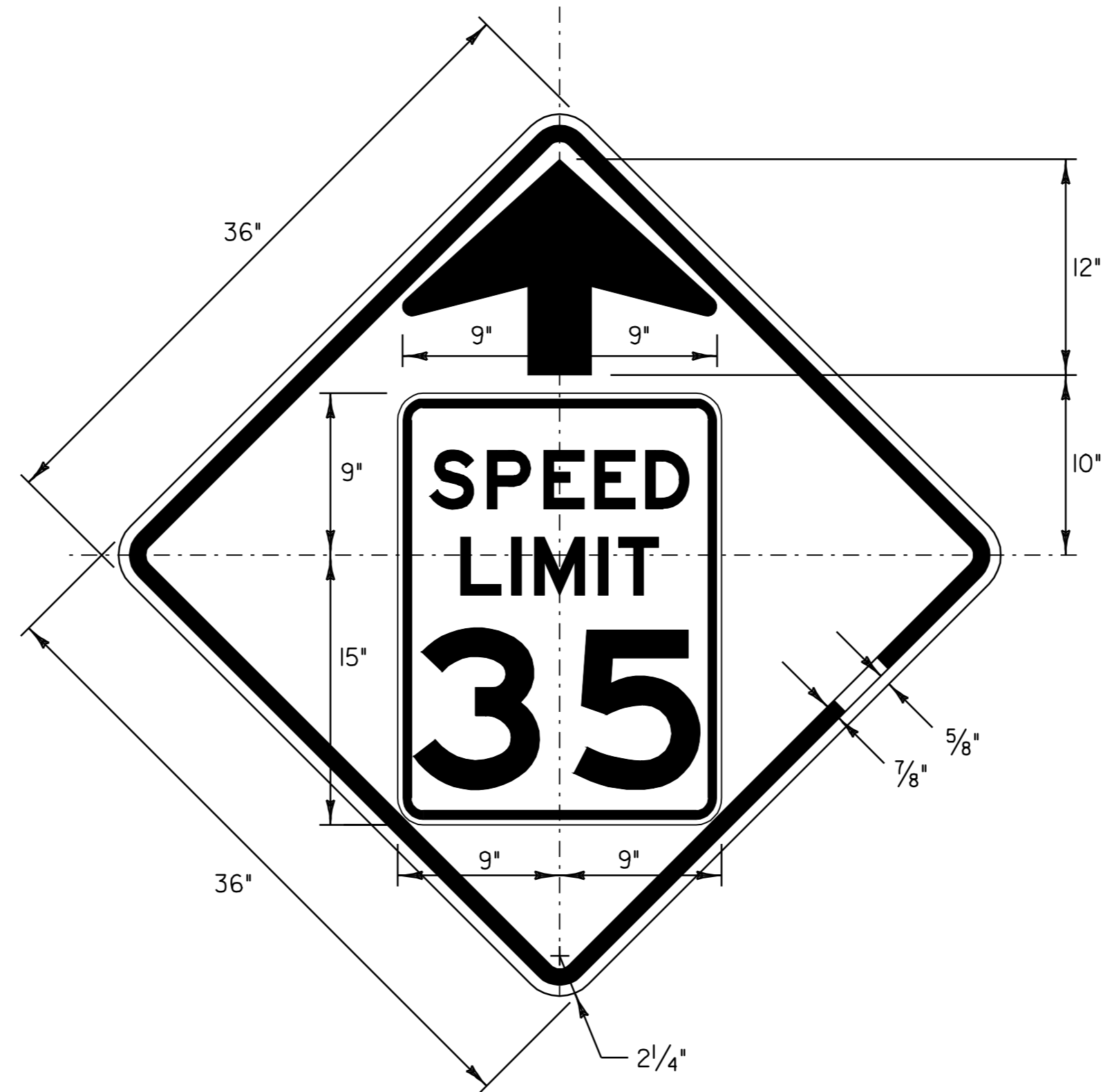
**TRAFFIC
SIGN
DETAILS
SHEET 1**

PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL
	IPARM FILE: p99b178tsd01.i	SHEET 70 OF 84



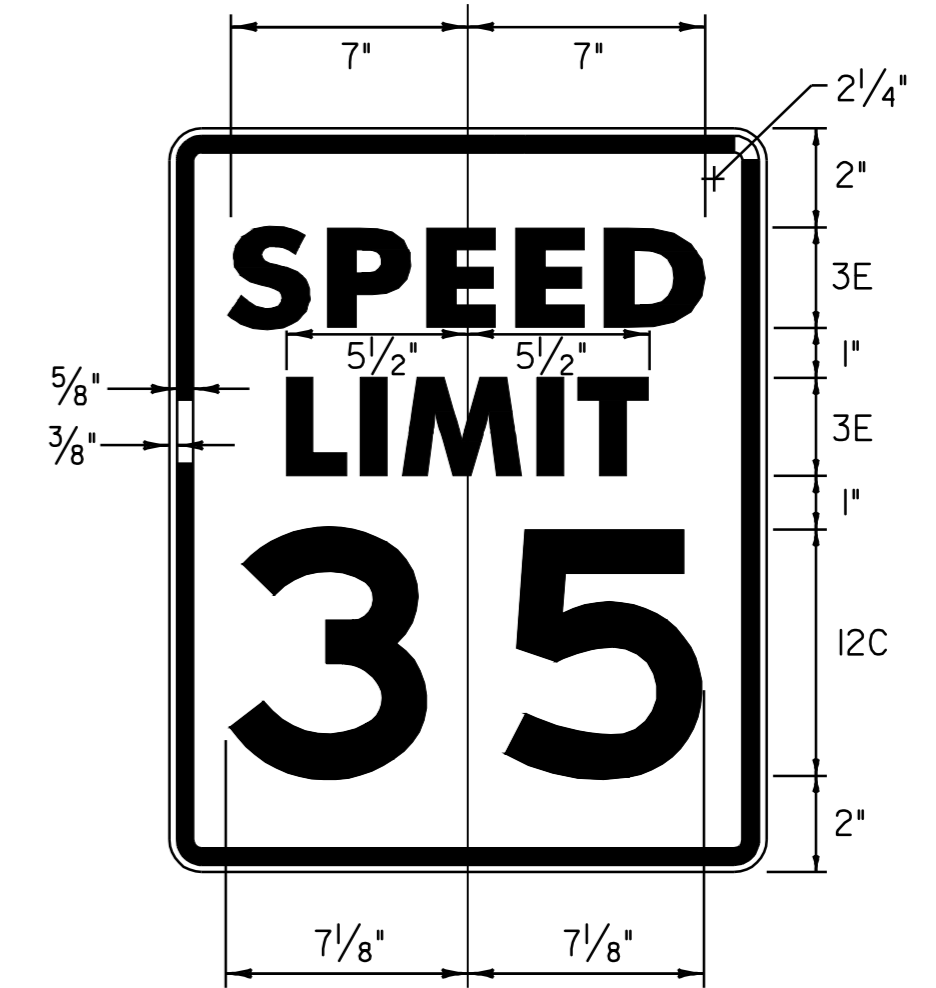
BLACK SYMBOL & BORDER
WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATION
TOPSHAM STA. 3+09, LT

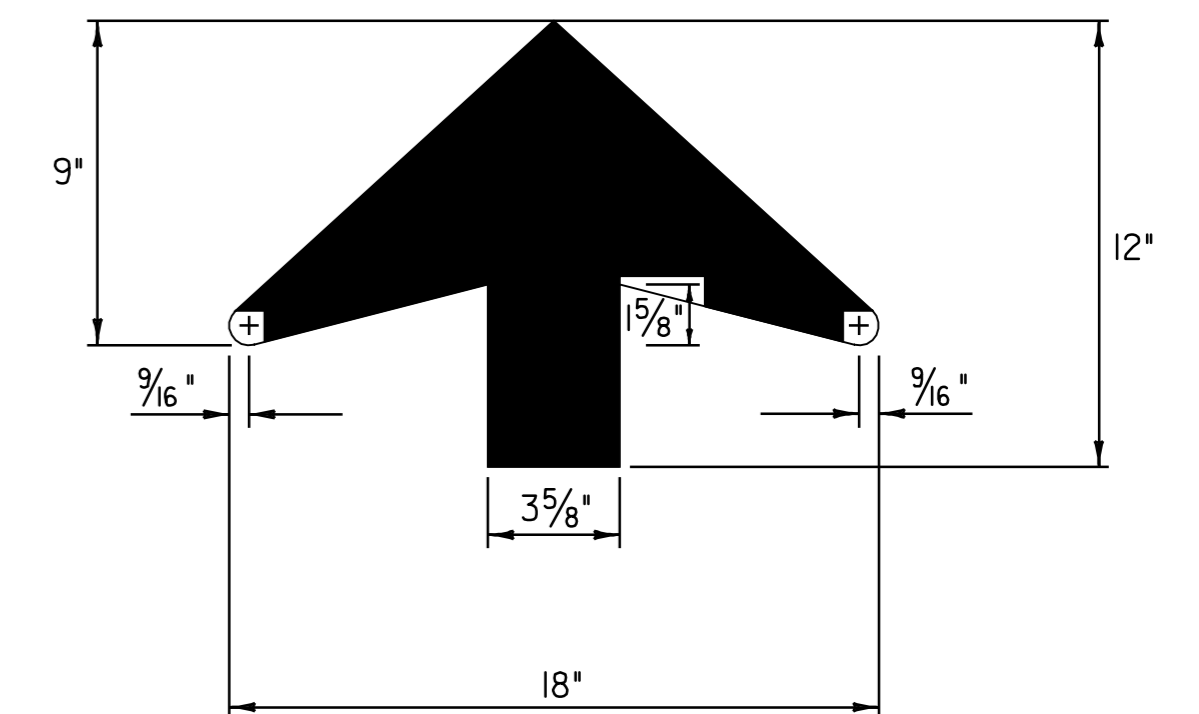


W3-5
BLACK BORDER & ARROW
WITH ORANGE (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATION
TOPSHAM STA. 233+45, RT
TOPSHAM STA. 281+72, LT



BLACK BORDER & TEXT
WITH YELLOW (RETROREFLECTIVE) BACKGROUND



NOT TO SCALE

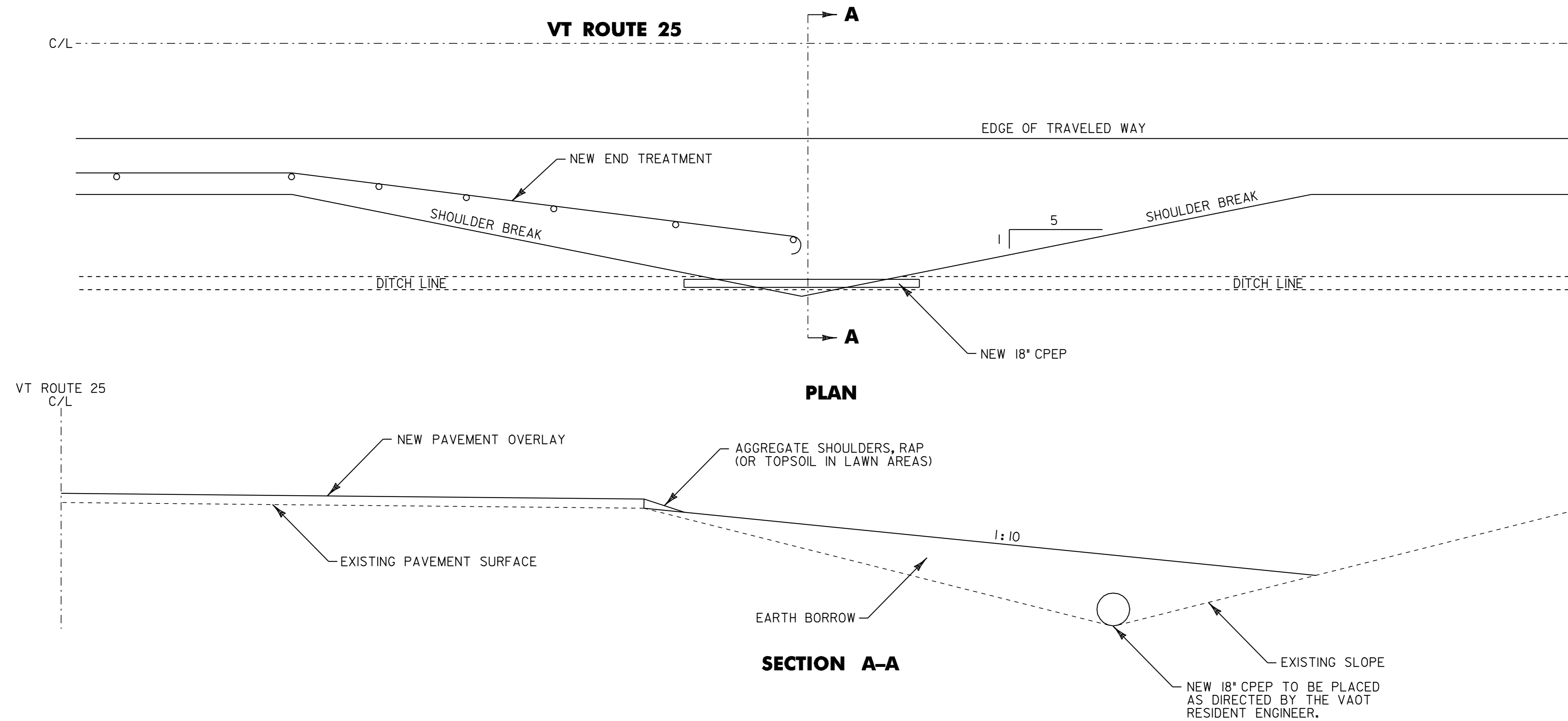
**TRAFFIC
SIGN
DETAILS
SHEET 2**

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: SIP 2213(I)

FILE NAME: p99b178.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p99b178tsd02.i

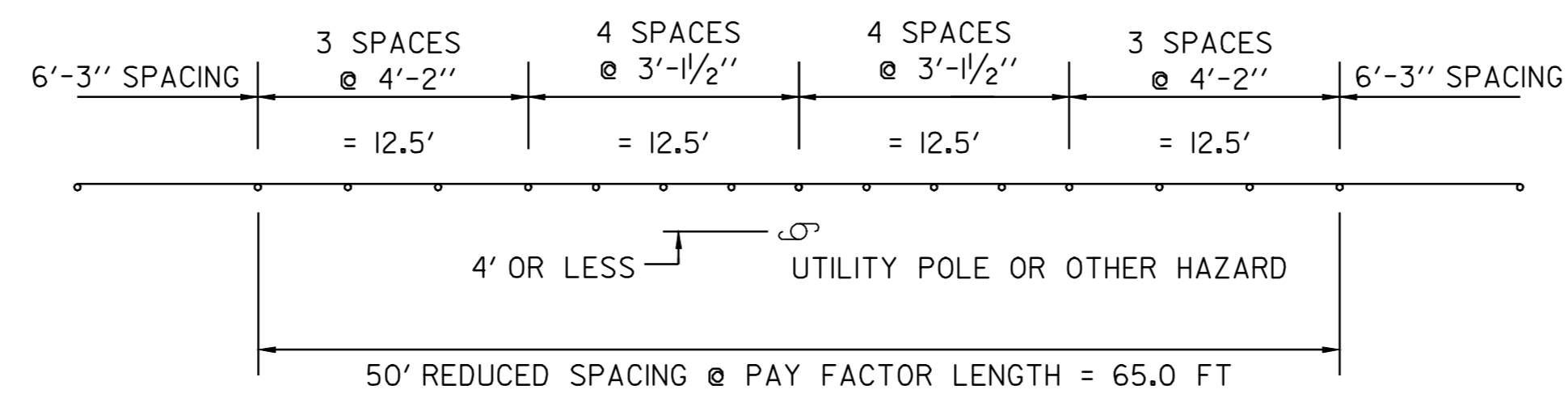
PLOT DATE: 28-MAY-2010 13:4
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 71 OF 84





DETAIL FOR PIPE PLACEMENT @ GUARD RAIL END TREATMENT LOCATION

CORINTH STA. 77+02.5, RT.
TOPSHAM STA. 275+10, RT.



REDUCED GUARD RAIL POST SPACING DETAIL

OBJECTS WITHIN 4 FT OF GUARDRAIL (N.T.S.)

TOPSHAM STA. 51+80, LT - UTILITY POLE
TOPSHAM STA. 54+70, LT - UTILITY POLE



NOT TO SCALE

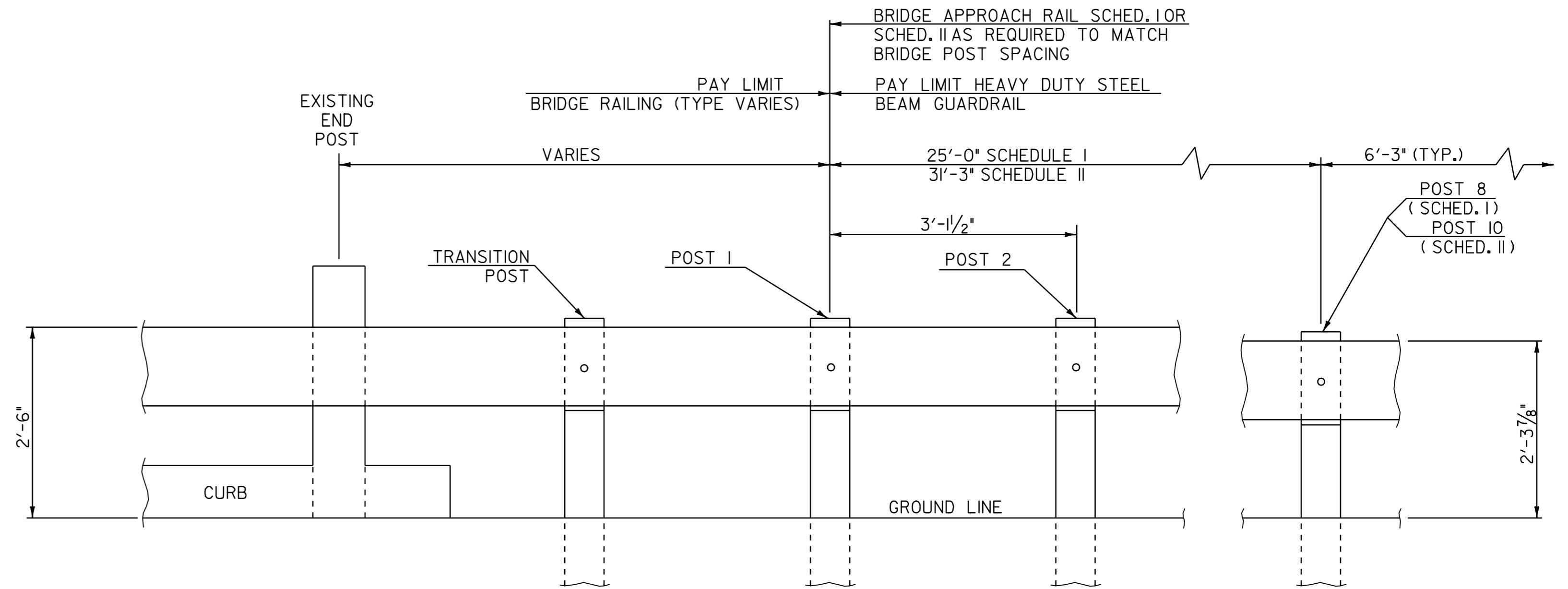
GUARD RAIL DETAIL SHEET

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(1)

FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL DRAWN BY: STANTEC
DESIGNED BY: STANTEC CHECKED BY: JLL
IPARM FILE: p99b178gds.i SHEET 72 OF 84

BRIDGE QUANTITY SHEET

STATION	POS.	BRIDGE NUMBER	OFFSET BLOCK	525.10 (LF)	525.40 (LF)	525.60 (LF)	529.25 (CY)	REMARKS
LOCATION: CORINTH								
120+76.5 - 121+01.5	LT	11	8'	25		25		
120+76.5 - 121+01.5	RT	11	8'	25	25		0.5	
204+94.13 - 205+37.88	RT	12	8'	43.75		43.75		
205+01.13 - 205+44.88	LT	12	8'	43.75		43.75		
TOPSHAM								
145+05.5 - 145+92.5	LT&RT	17						ALL EXISTING BRIDGE RAIL IS TO BE RETAINED
234+42.5 - 234+67.5	RT	19	8'	25		25		
234+62.5 - 234+87.5	LT	19	8'	25		25		
271+35.13 - 271+78.88	RT	20	8'	43.75		43.75		
271+47.63 - 271+91.38	LT	20	8'	43.75		43.75		
273+78.63 - 273+97.38	LT	21	8'	18.75		18.75		
273+78.63 - 273+97.38	RT	21	8'	18.75		18.75		
300+77 - 301+27	LT	23	8'	50		50		
301+06 - 301+56	RT	23	8'	50		50		
SUBTOTALS				412.5	25	387.5	0.5	
ROUNDING				12.5	-	12.5	-	
TOTAL				425	25	400	0.5	



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

SCHEDULE II		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1/2"	1.4 x 18'-9"
2	3'-1/2"	
3	3'-1/2"	
4	3'-1/2"	
5	3'-1/2"	
6	3'-1/2"	1.2 x 12'-6"
7	4'-2"	
8	4'-2"	
9	4'-2"	1.0 (TYP.)
10	4'-2"	
11	6'-3" (TYP.)	
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.

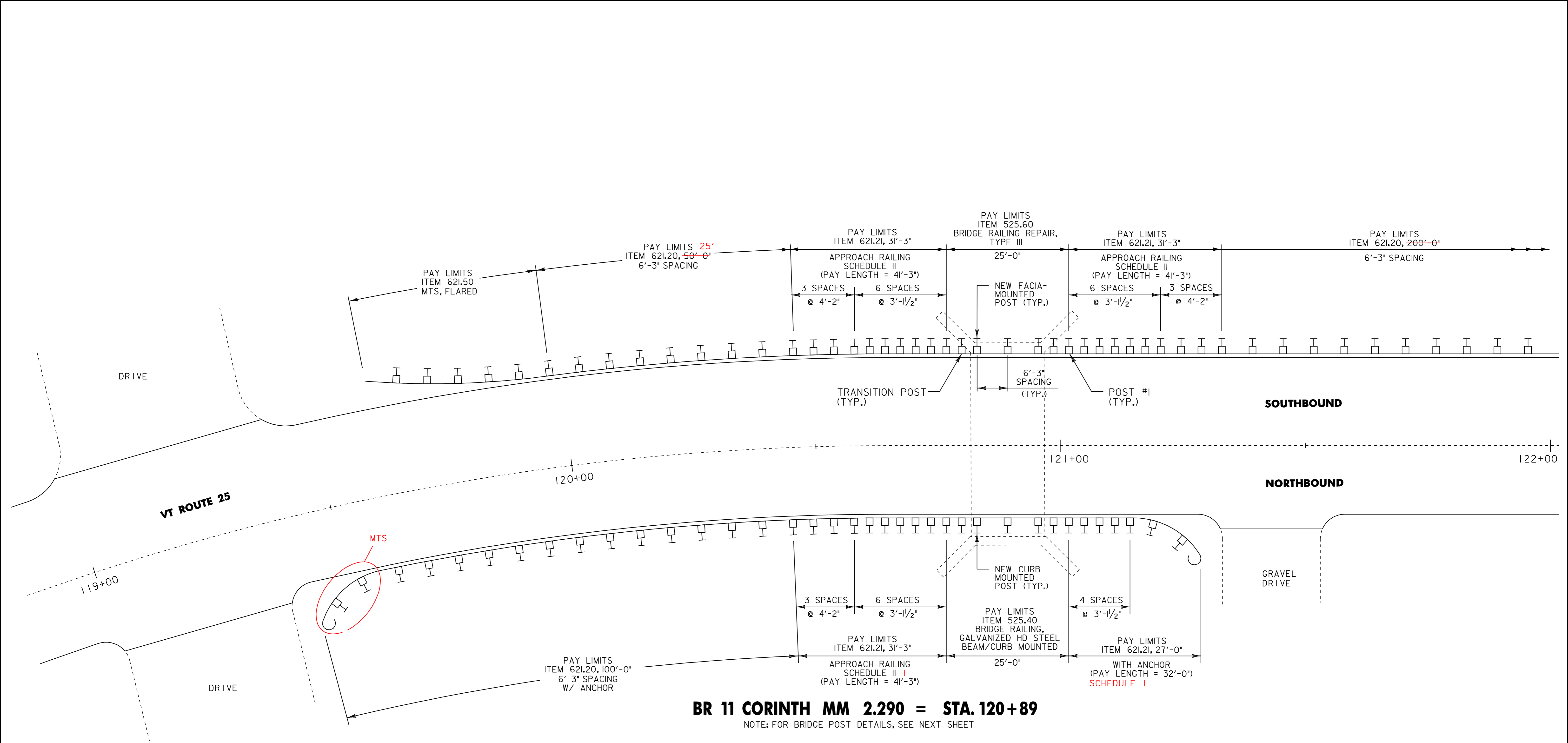
GENERAL NOTES

- BRIDGE RAIL SHALL BE HEAVY DUTY STEEL BEAM GUARDRAIL.
- BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
- APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR 25' FROM THE ENDS OF THE BRIDGE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.
- 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.
- SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
- SEE STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
- ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 31'-3" APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.
- ALL BRIDGE POSTS, HEAVY DUTY STEEL BEAM BRIDGE RAIL, AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE APPROPRIATE BRIDGE RAILING ITEMS AS DENOTED IN THE PLANS.
- 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.
- SEE STANDARD SHEET G-1 FOR CONNECTION OF STEEL BEAM TO OFFSET BLOCK AND OFFSET BLOCK TO BRIDGE POST.
- NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.

BRIDGE APPROACH RAILING



<p>BRIDGE DETAIL SHEET NO. 1</p>	<p>PROJECT NAME: <u>BRADFORD - ORANGE</u></p> <p>PROJECT NUMBER: <u>SIP 2213(I)</u></p>	
	<p>FILE NAME: p99b178.dgn</p> <p>DESIGNED BY: <u>STANTEC</u></p> <p>IPARM FILE: z99b178bds1.i</p>	<p>PLOT DATE: 28-MAY-2010 13:4</p> <p>DRAWN BY: <u>STANTEC</u></p> <p>CHECKED BY: <u>JLL</u></p> <p>SHEET <u>73</u> OF <u>84</u></p>
	<p align="center">NOT TO SCALE</p>	



BR 11 CORINTH MM 2.290 = STA. 120+89

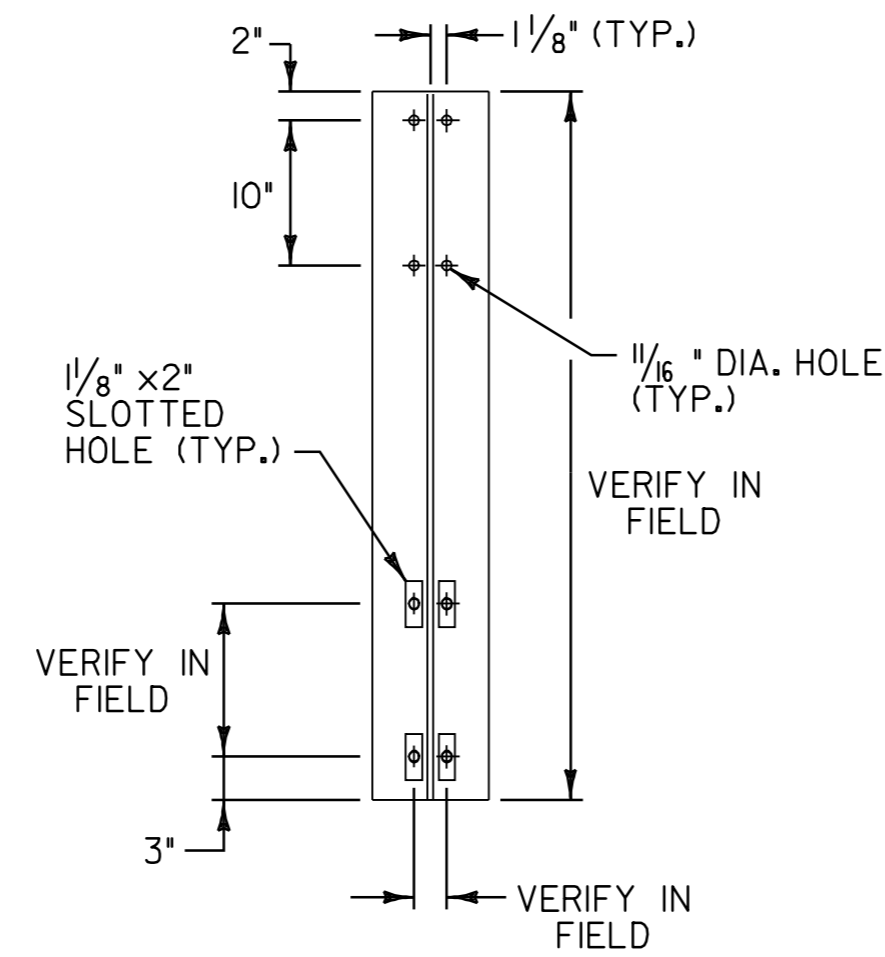
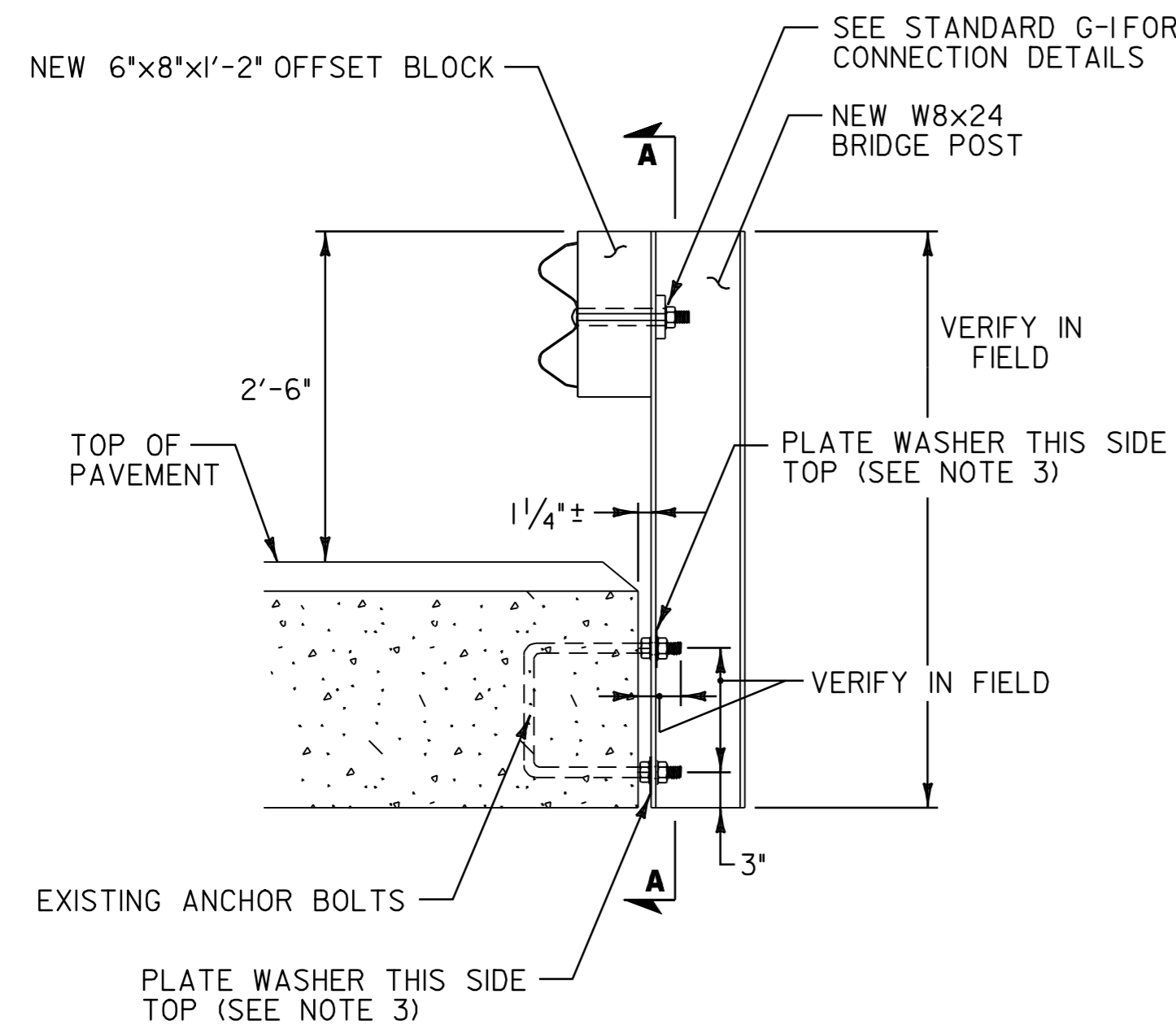
NOTE: FOR BRIDGE POST DETAILS, SEE NEXT SHEET

NOT TO SCALE

**BRIDGE
DETAIL SHEET
NO. 2A**



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178bds2A.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	74 OF 84



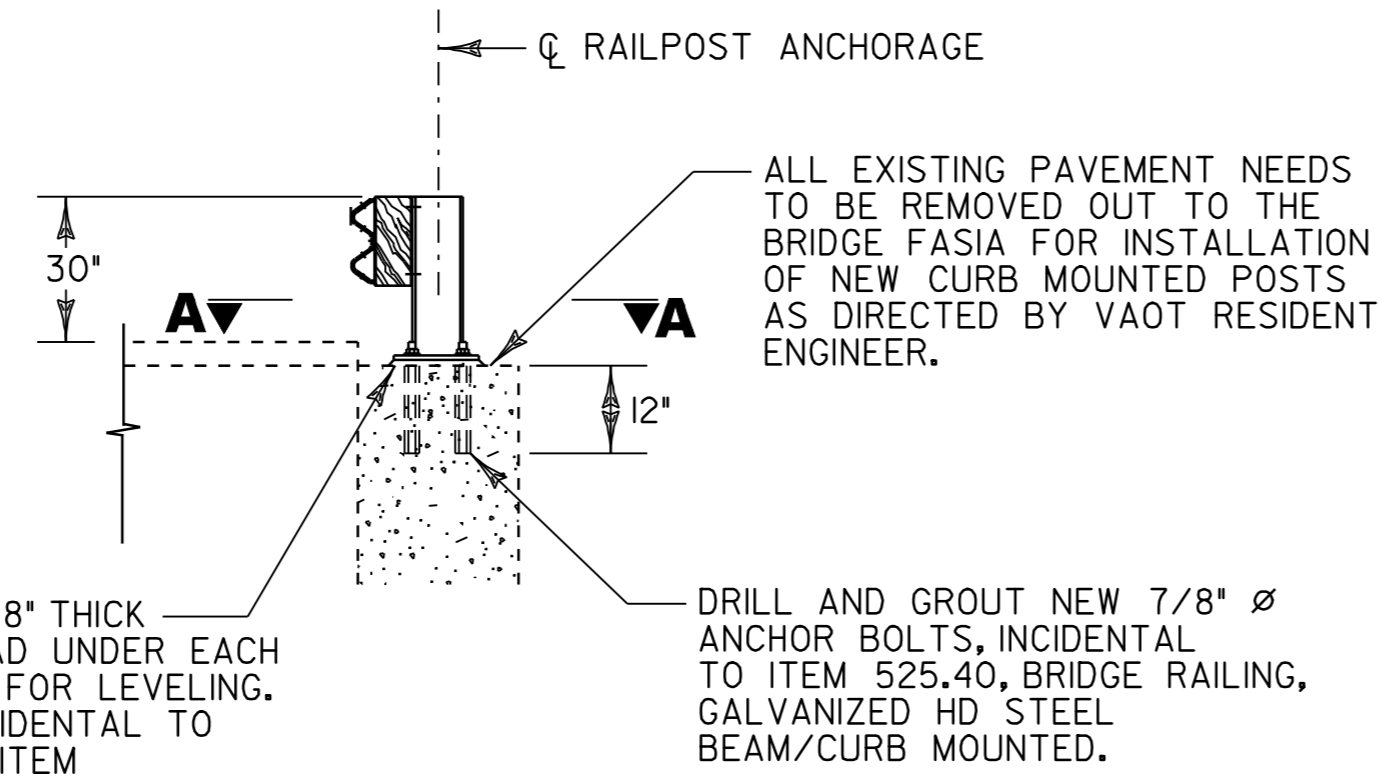
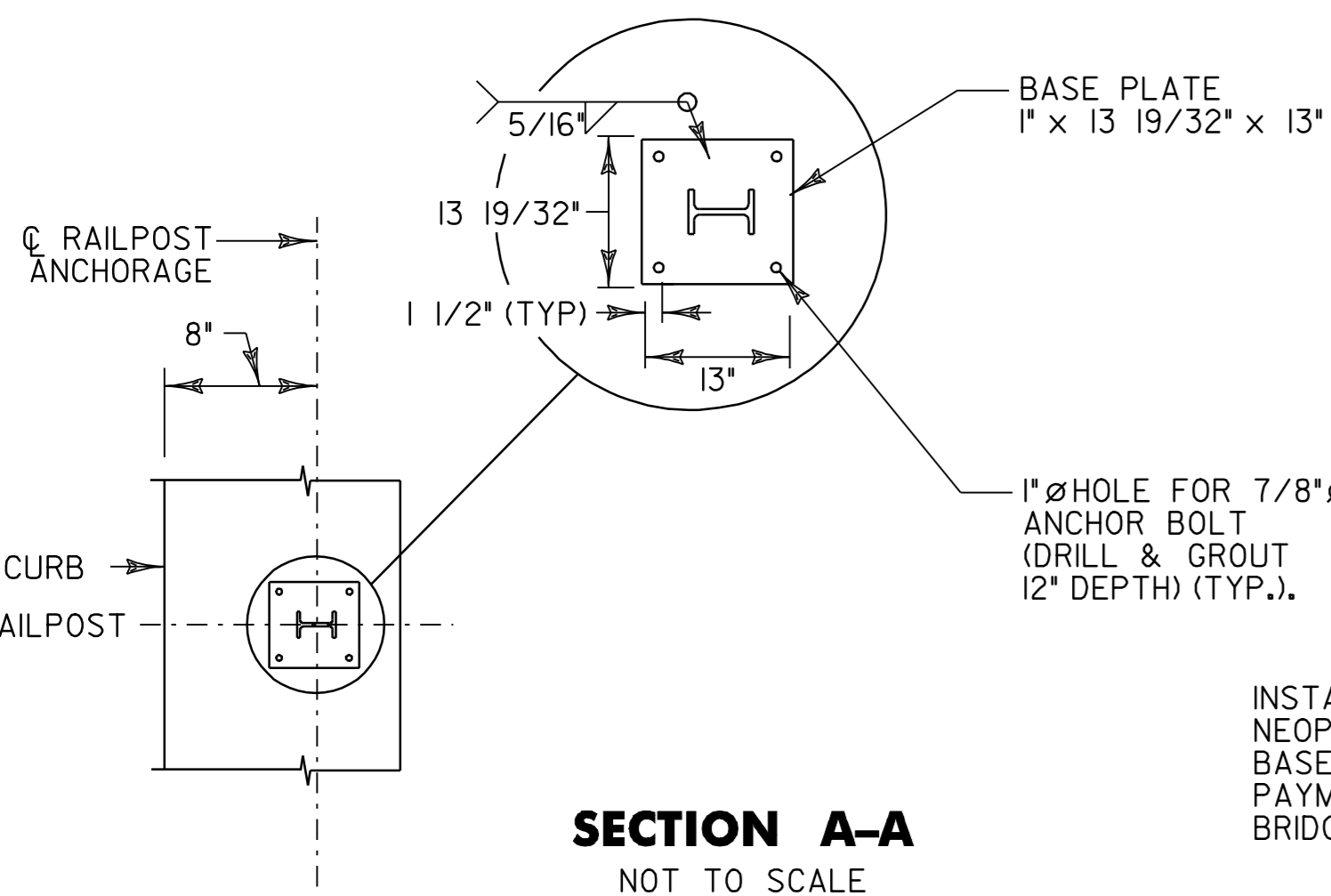
SECTION A-A

BR 11 BRIDGE POST DETAIL (LEFT SIDE ONLY)

CORINTH STA. 120+76.5 TO 121+01.5, LT

NOTES

1. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
2. POSTS SHALL BE SHOP CUT AND DRILLED PRIOR TO GALVANIZING.
3. SEE VAOT STANDARD SHEETS G-I, G-Id, AND SB-R6-82 FOR ADDITIONAL DETAILS.
4. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
5. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
6. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
7. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST I.
8. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
9. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
10. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
11. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
12. SEE VAOT STANDARD SHEET G-I FOR DELINEATION DETAILS AND PLACEMENT.
13. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.



PROPOSED BRIDGE RAIL MOUNTING DETAILS FOR BRIDGE BR 11 (RIGHT SIDE ONLY)

CORINTH STA. 120+76.5 TO 121+01.5, RT

NOTES

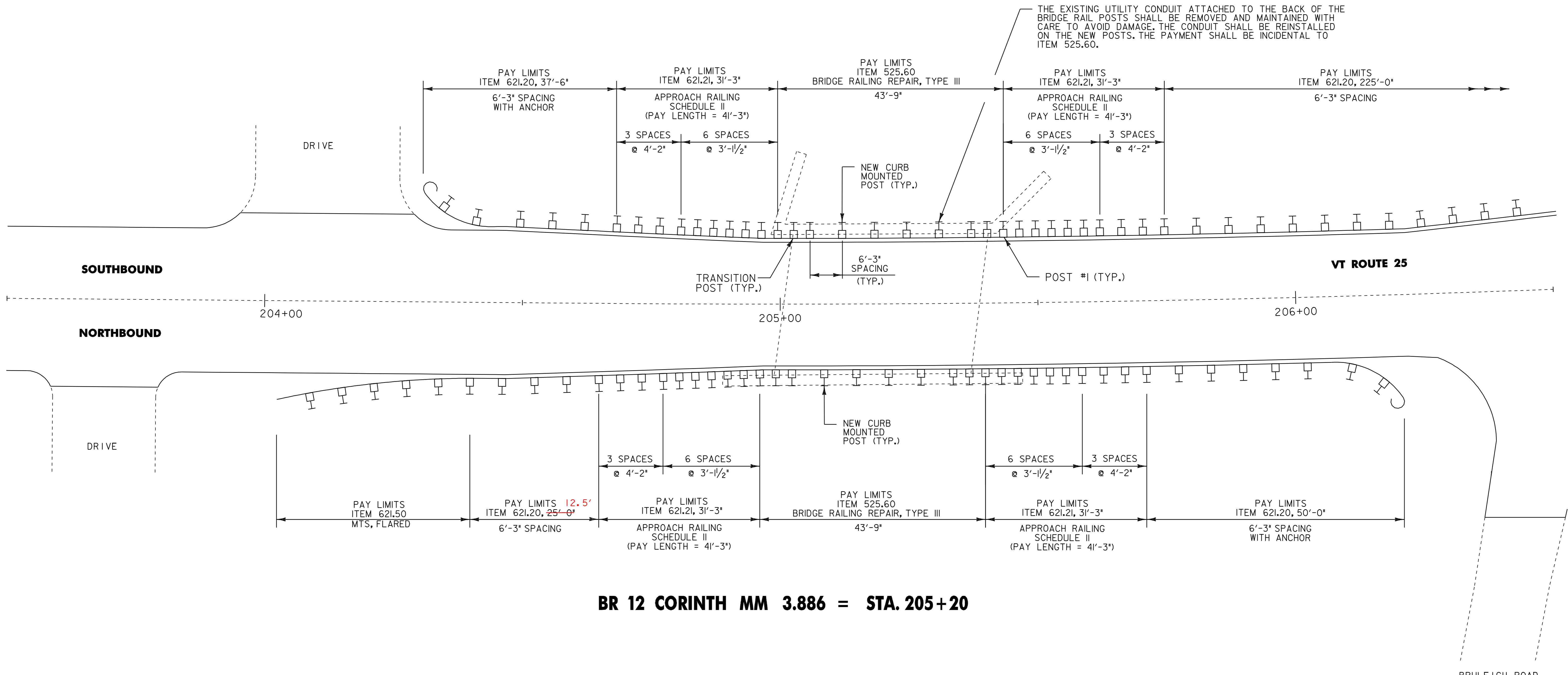
1. SEE VAOT STANDARDS G-I AND G-Id FOR ADDITIONAL DETAILS.
2. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE ITEM 525.40 BRIDGE RAILING, GALVANIZED HD STEEL BEAM/CURB MOUNTED.
3. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
4. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
5. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST I.
6. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
7. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
8. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
9. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
10. NEW ASTM A-449 7/8" DIAMETER ANCHOR BOLTS TO BE GROUTED IN PLACE SHALL BE FURNISHED WITH ONE NUT AND ONE WASHER. BOLTS, NUTS AND WASHERS SHALL BE INCIDENTAL TO ITEM 525.40.
11. GROUT NEW BOLTS WITH A TYPE IV MORTAR. DRILLING AND GROUTING NEW ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 525.60.
12. A MINIMUM PULLOUT STRENGTH OF 70 kips SHALL BE ATTAINED ON ALL NEW BOLTS THAT ARE GROUTED IN PLACE. A SAMPLE GROUTED BOLT WILL BE TESTED BEFORE MATERIALS ARE APPROVED FOR USE, AND THEN RANDOM BOLTS WILL BE FIELD TESTED BY THE STATE OF VERMONT TO ENSURE THIS STRENGTH IS BEING ATTAINED. 48-HOURS ADVANCE NOTICE IS REQUIRED TO ALERT VAOT AS TO WHEN THE CONTRACTOR WILL BE READY FOR THIS TESTING.
13. SEE VAOT STANDARD SHEET G-I FOR DELINEATION DETAILS AND PLACEMENT.
14. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

NOT TO SCALE

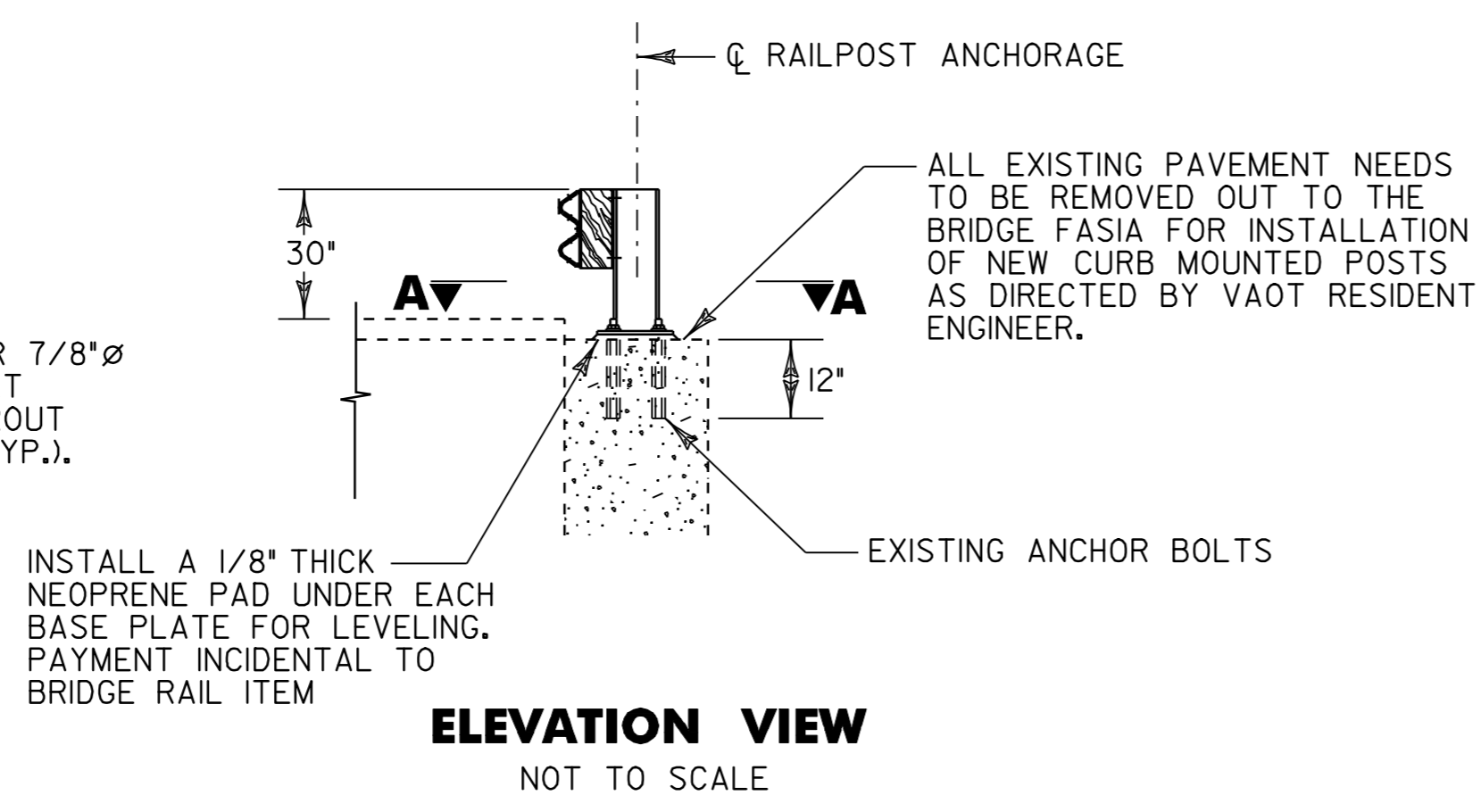
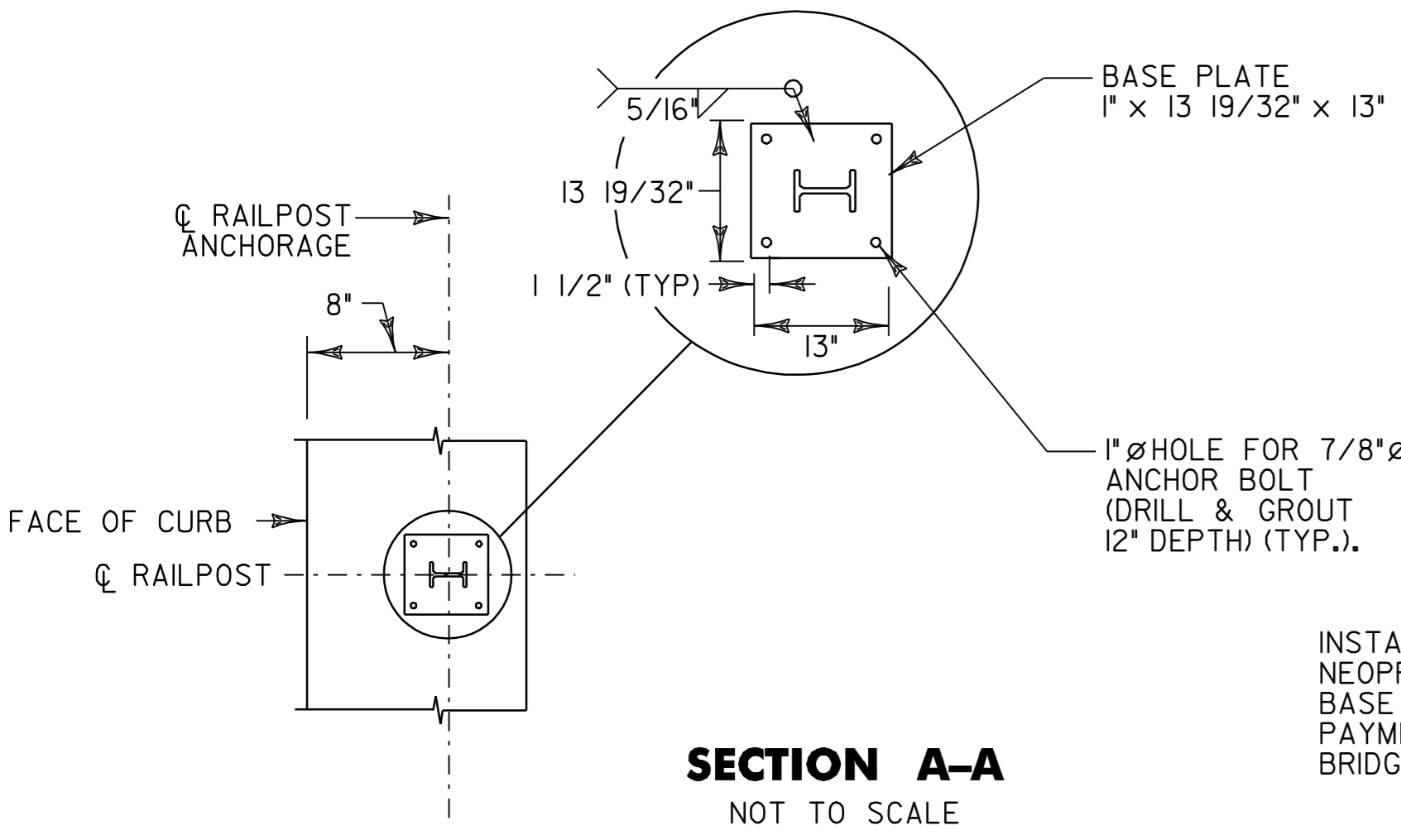
**BRIDGE
DETAIL SHEET
NO. 2B**

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	SIANTEC
IPARM FILE:	z99b178bds2B.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	SIANTEC
CHECKED BY:	JLL
SHEET	75 OF 84





BR 12 CORINTH MM 3.886 = STA. 205+20



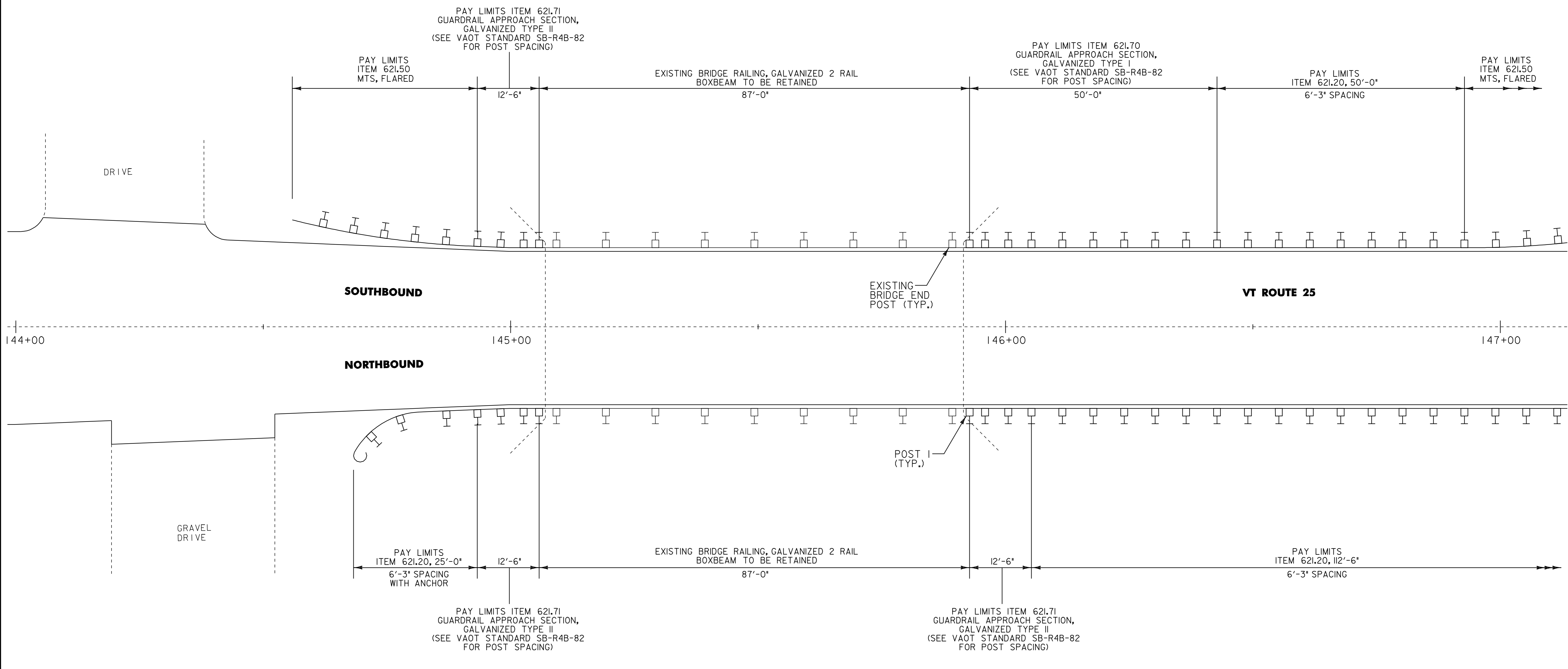
**PROPOSED BRIDGE RAIL MOUNTING
DETAILS FOR BRIDGE BR 12**

NOTES

1. SEE VAOT STANDARDS G-1 AND G-1d FOR ADDITIONAL DETAILS.
2. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
3. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
4. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
5. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST I.
6. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
7. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
8. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
9. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10
10. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
11. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
12. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.



NOT TO SCALE	
BRIDGE DETAIL SHEET NO. 3	
PROJECT NAME: BRADFORD - ORANGE	PROJECT NUMBER: STP 2213(I)
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: z99b178bds3.i	SHEET 76 OF 84

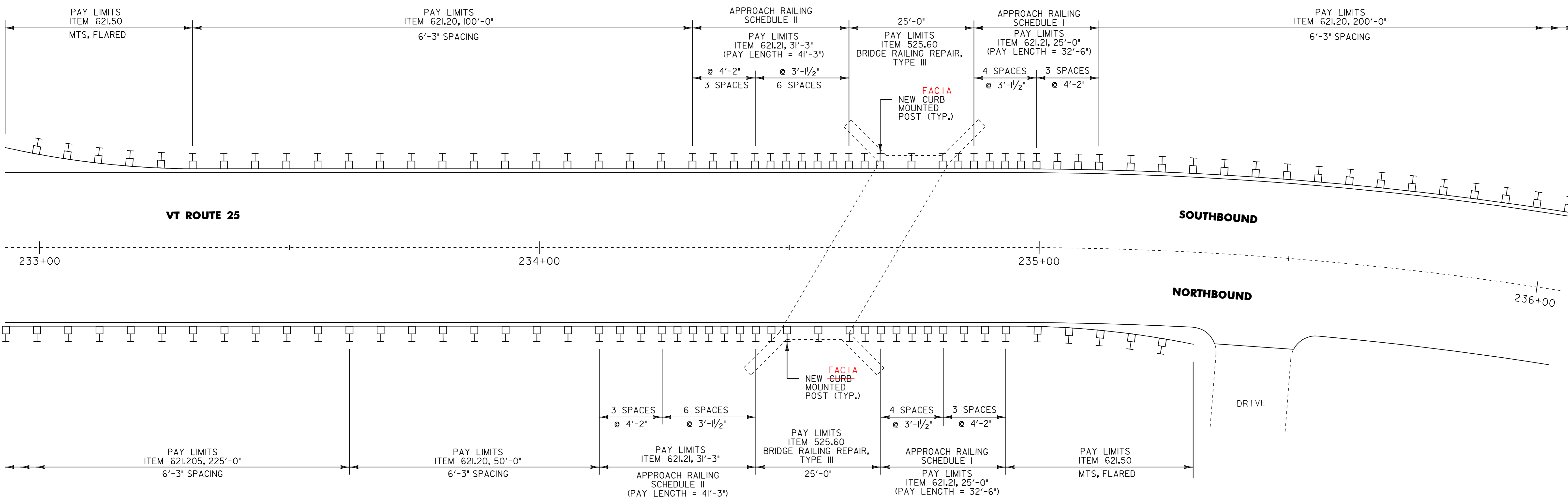


BR 17 TOPSHAM MM 2.756 = STA. 145+49

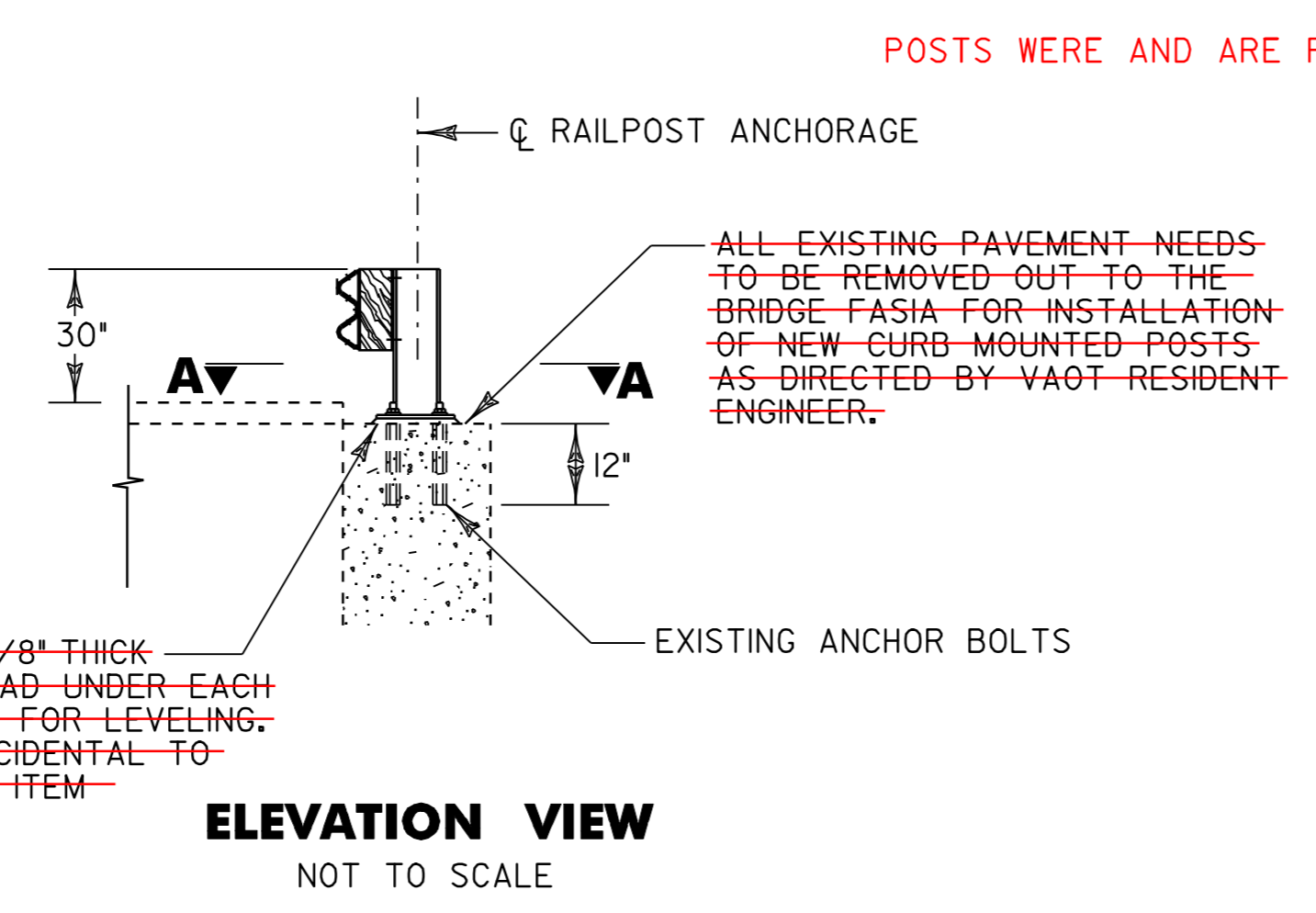
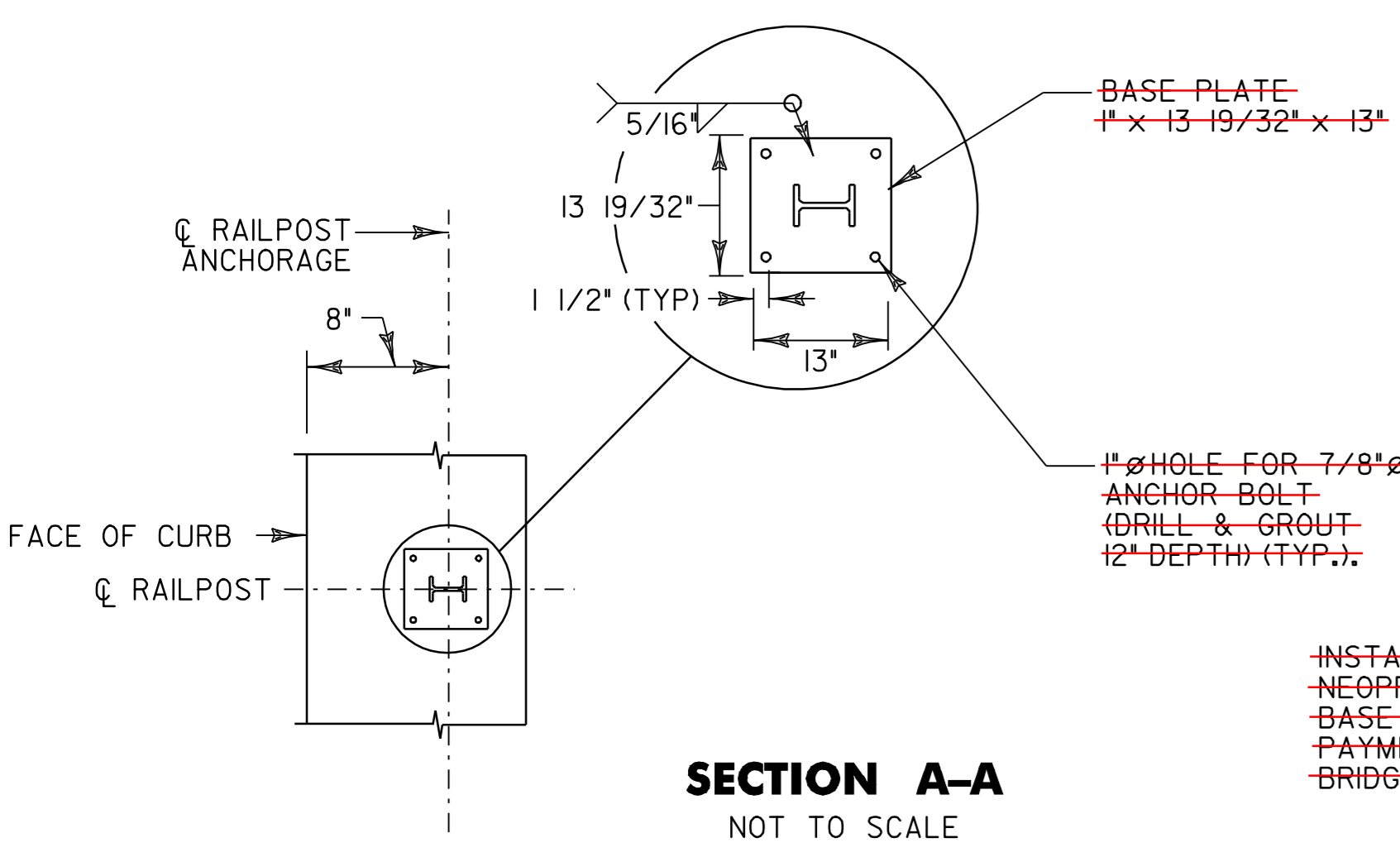
NOT TO SCALE

<p>BRIDGE DETAIL SHEET NO. 4</p>	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: z99b178bds4.i	SHEET 77 OF 84





BR 19 TOPSHAM MM 4.444 = STA. 234+65



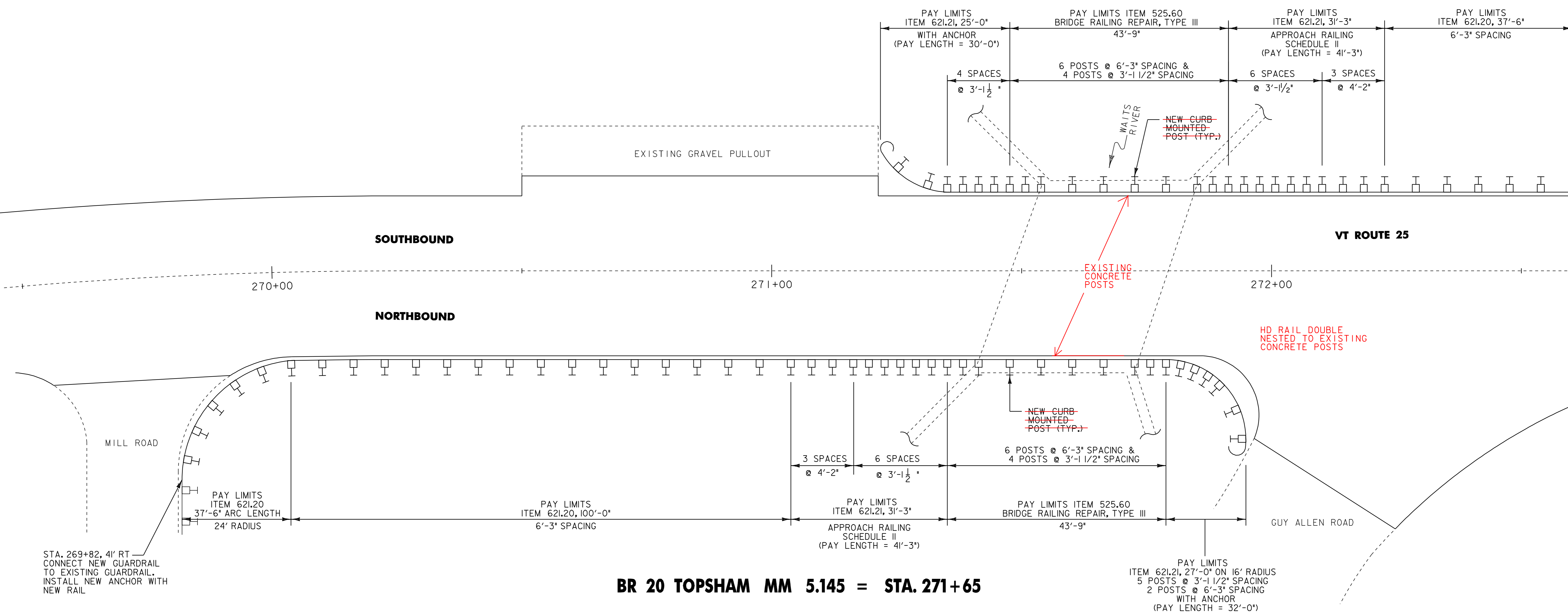
PROPOSED BRIDGE RAIL MOUNTING DETAILS FOR BRIDGE BR 19

NOTES

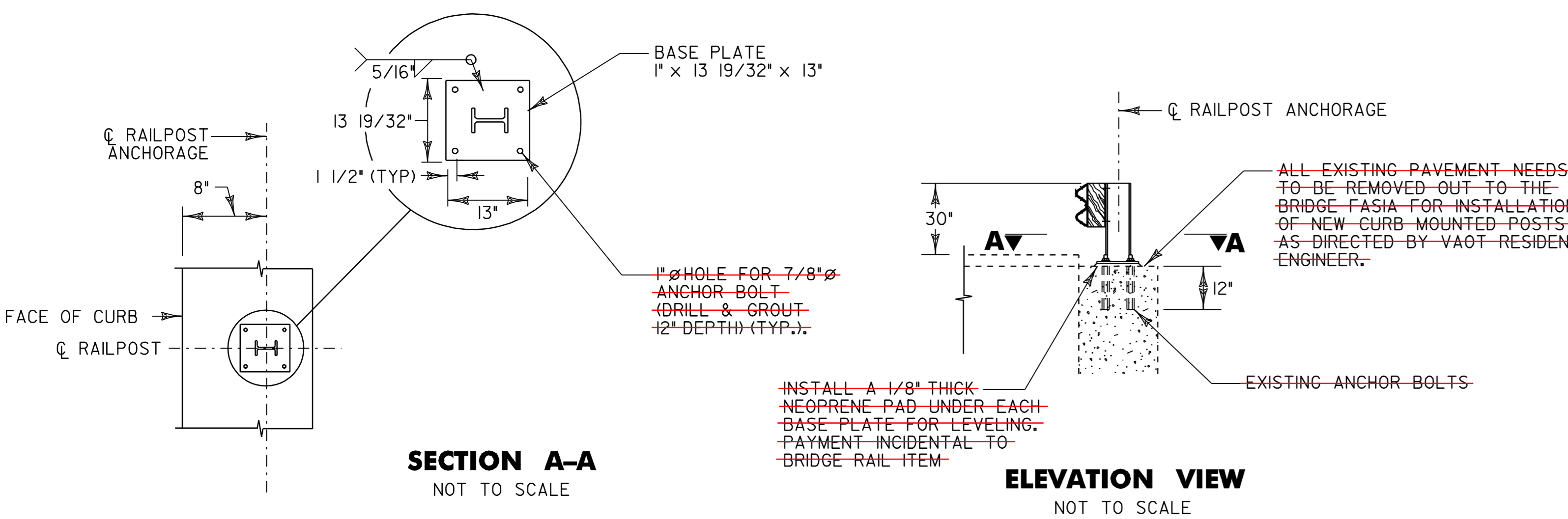
- SEE VAOT STANDARDS G-1 AND G-1d FOR ADDITIONAL DETAILS.
- ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
- BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
- BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
- FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST I.
- APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
- SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
- NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
- ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10
- LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
- SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
- ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.



BRIDGE DETAIL SHEET NO. 5	NOT TO SCALE	
	PROJECT NAME: BRADFORD - ORANGE	PROJECT NUMBER: STP 2213(I)
	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
	PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL	
IPARM FILE: z99b178bds5.i	SHEET 78 OF 84	



BR 20 TOPSHAM MM 5.145 = STA. 271+65



**PROPOSED BRIDGE RAIL MOUNTING
DETAILS FOR BRIDGE BR 20**

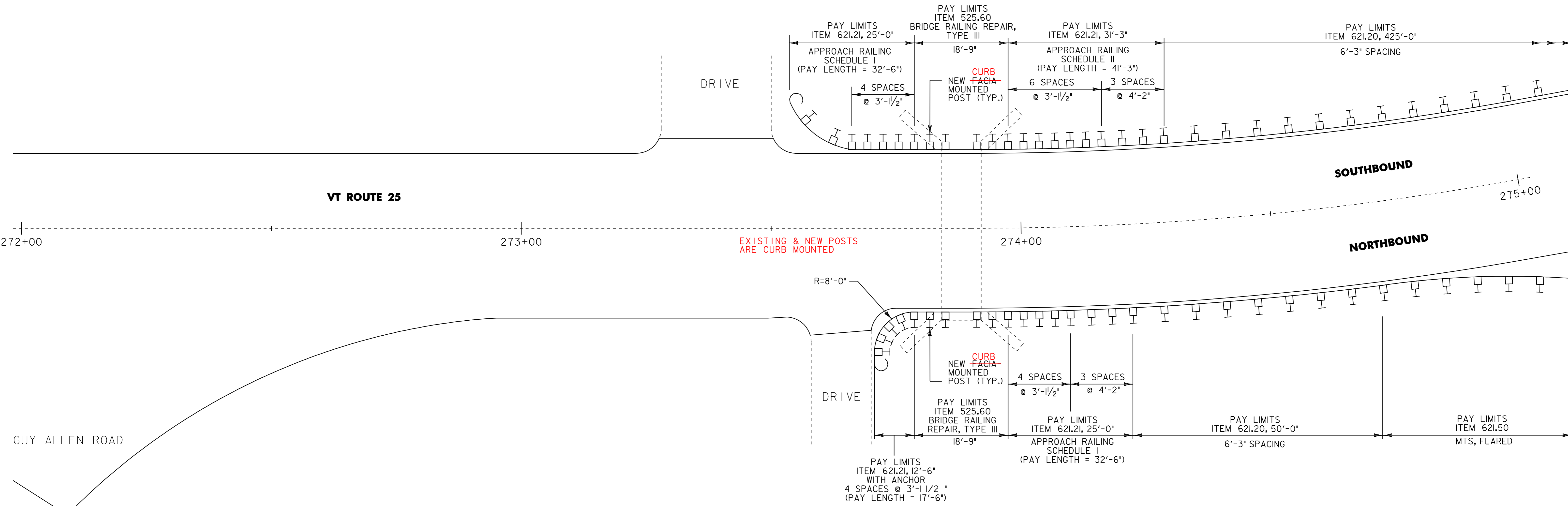
- NOT TO SCALE**
- SEE VAOT STANDARDS G-1 AND G-1d FOR ADDITIONAL DETAILS.
 - ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
 - BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
 - BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
 - FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST I.
 - APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.

NOTES

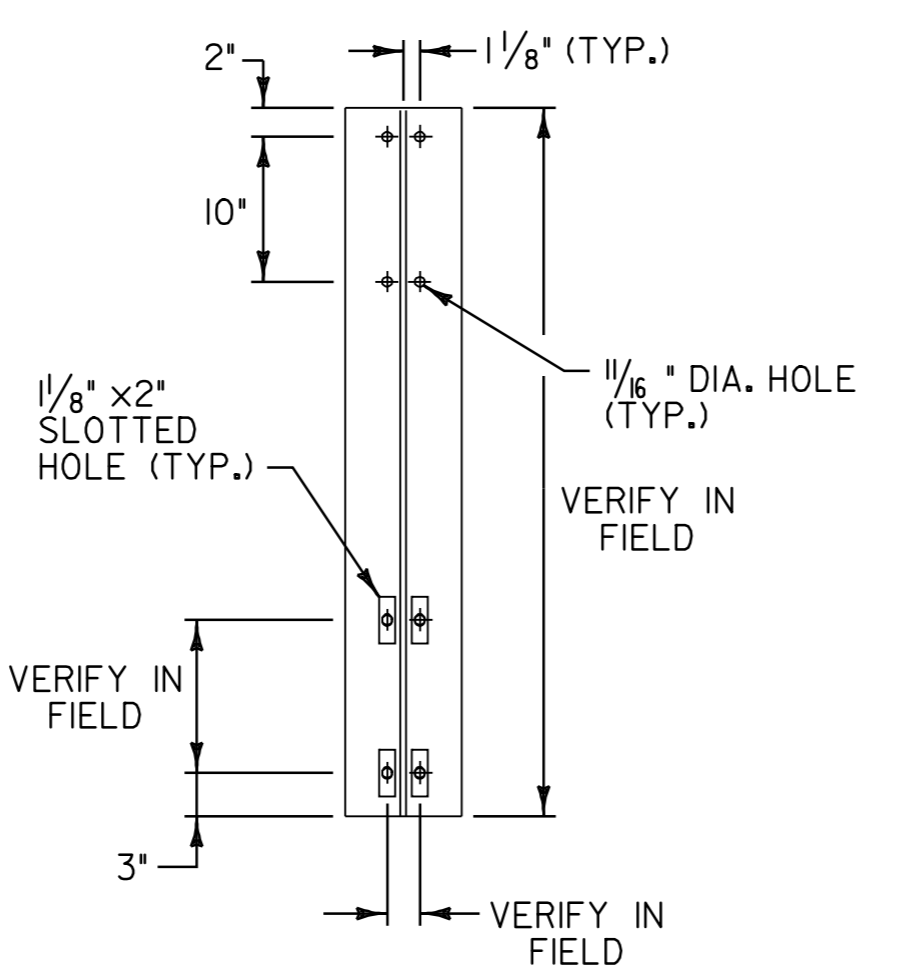
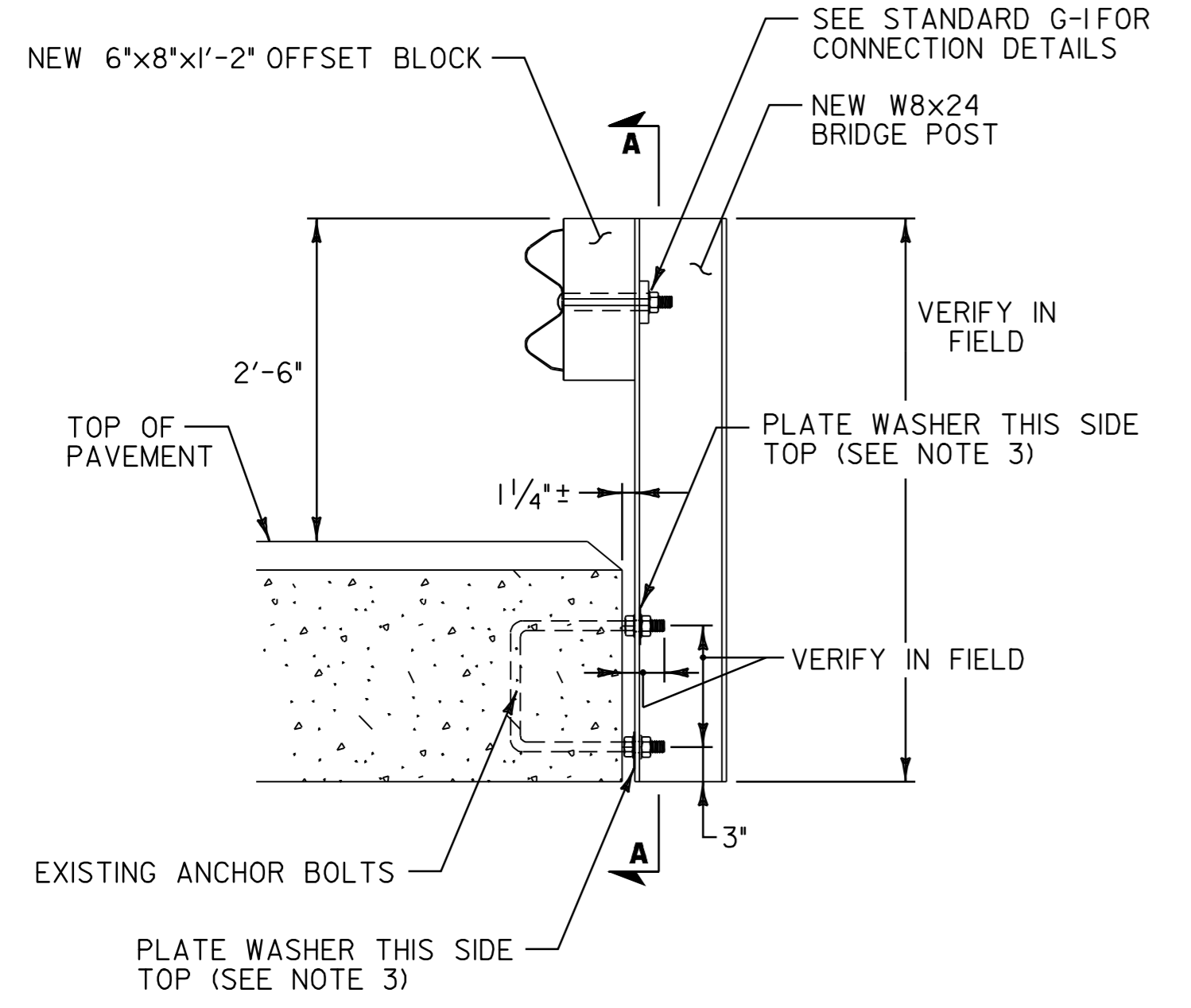
- SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
- NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
- ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10
- LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
- SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
- ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.



BRIDGE DETAIL SHEET NO. 6	PROJECT NAME: BRADFORD - ORANGE	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
	PROJECT NUMBER: STP 2213(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL	SHEET 79 OF 84



BR 21 TOPSHAM MM 5.187 = STA. 273+88



SECTION A-A

BR 21 BRIDGE POST DETAIL

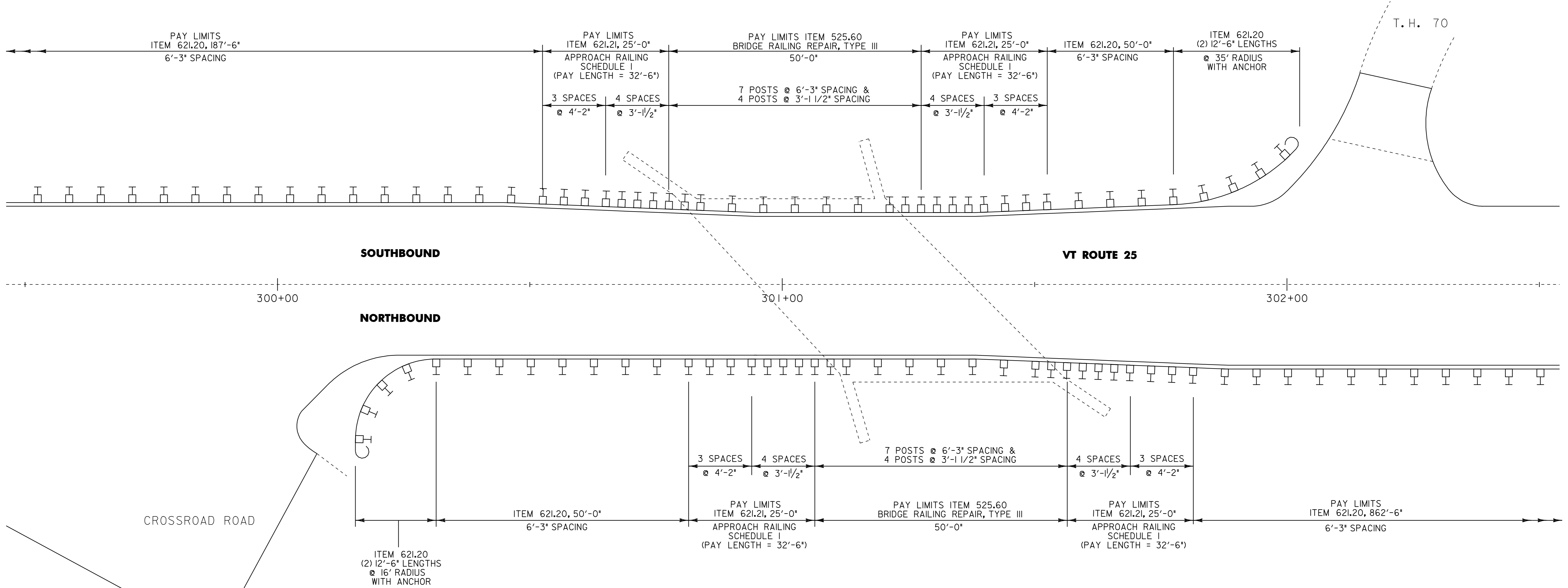
NOTES

1. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
2. POSTS SHALL BE SHOP CUT AND DRILLED PRIOR TO GALVANIZING.
3. SEE VAOT STANDARD SHEETS G-1, G-1d, AND SB-R6-82 FOR ADDITIONAL DETAILS.
4. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR TYPE III.
5. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
6. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
7. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST 1.
8. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
9. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
10. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
11. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
12. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
13. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

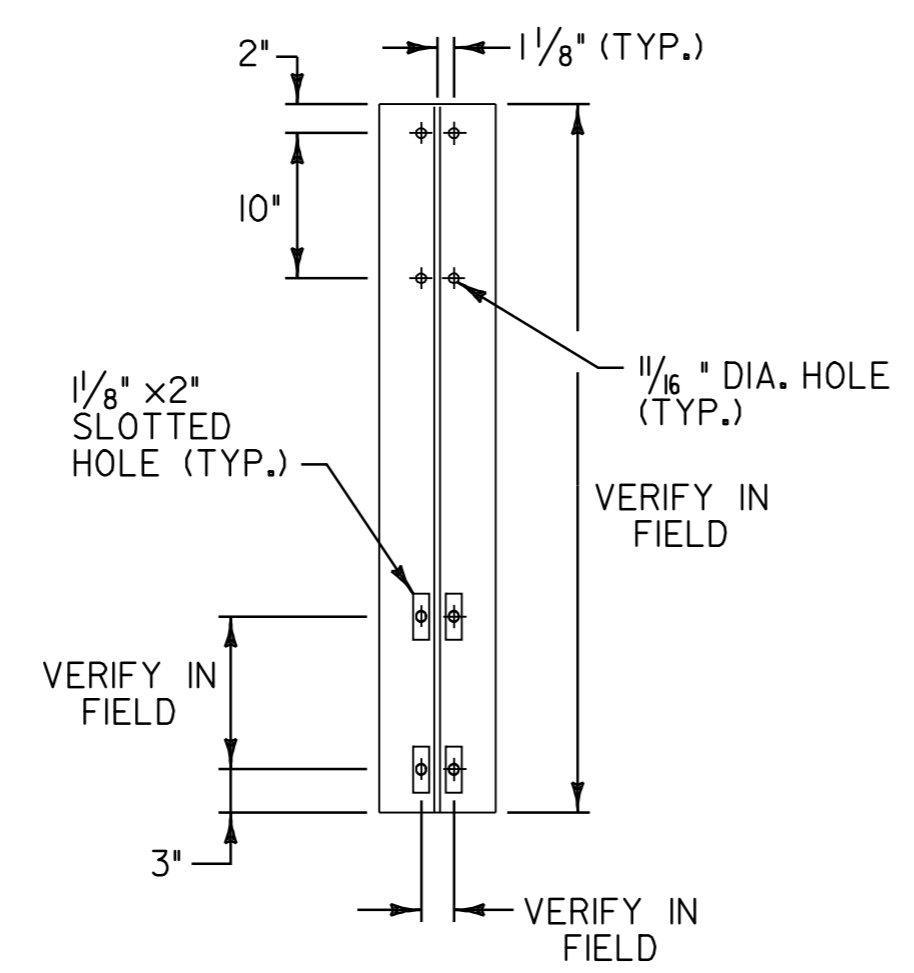
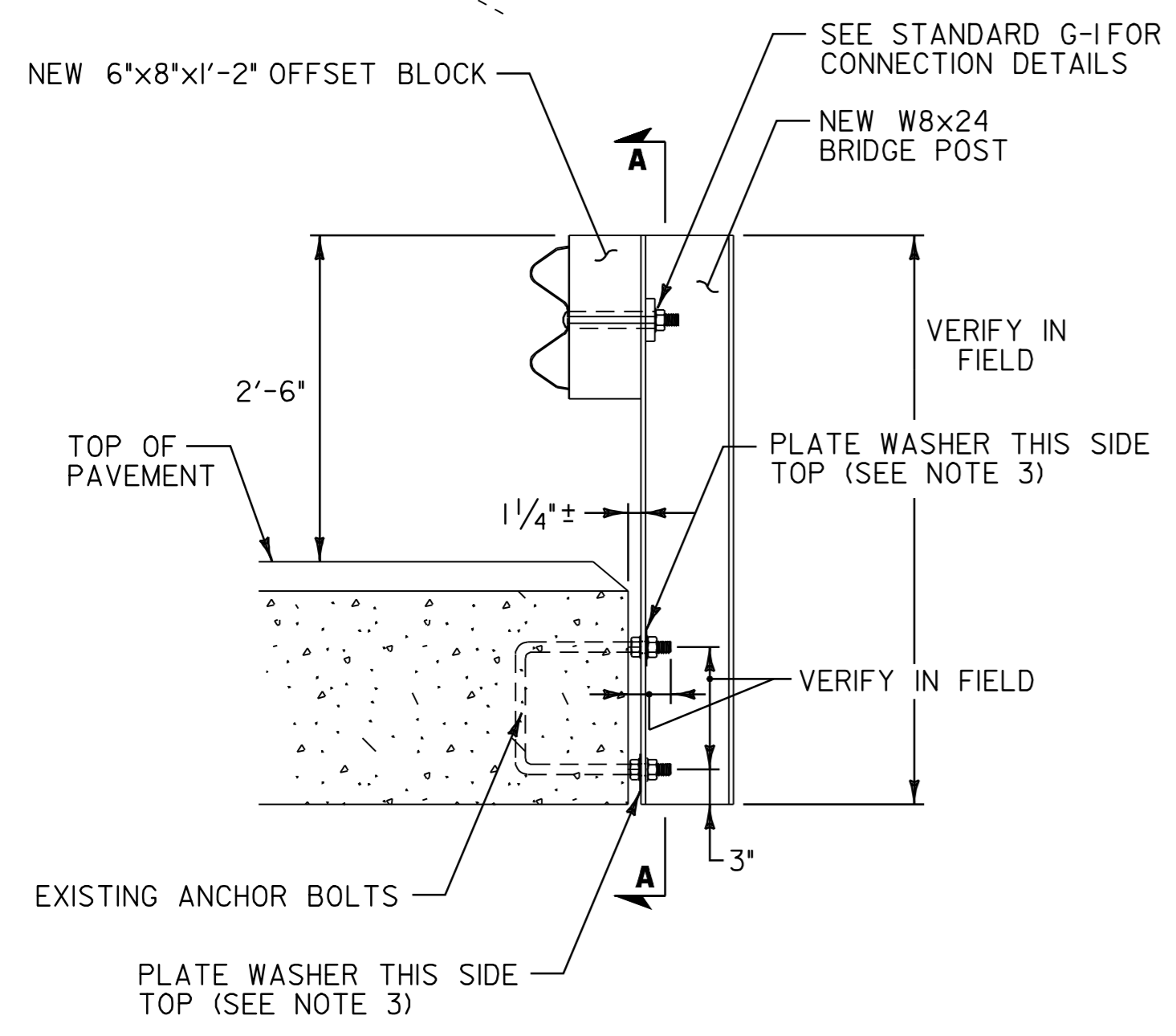
NOT TO SCALE

BRIDGE DETAIL SHEET NO. 7	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(I)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: z99b178bds7.i	SHEET 80 OF 84





BR 23 TOPSHAM MM 5.704 = STA. 301+17



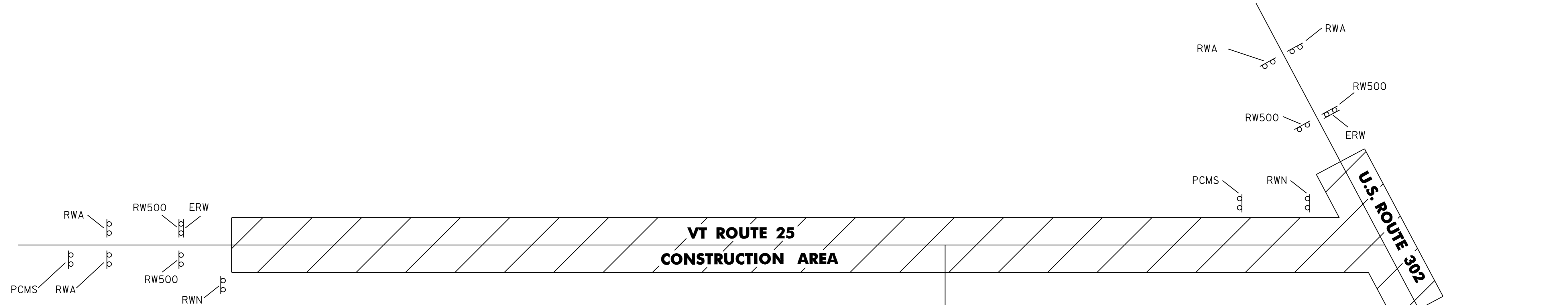
NOTES

1. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
2. POSTS SHALL BE SHOP CUT AND DRILLED PRIOR TO GALVANIZING.
3. SEE VAOT STANDARD SHEETS G-I, G-Id, AND SB-R6-82 FOR ADDITIONAL DETAILS.
4. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
5. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
6. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
7. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST I.
8. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
9. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
10. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
11. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
12. SEE VAOT STANDARD SHEET G-IFOR DELINEATION DETAILS AND PLACEMENT.
13. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

NOT TO SCALE

BRIDGE DETAIL SHEET NO. 8	PROJECT NAME: <u>BRADFORD - ORANGE</u>
	PROJECT NUMBER: <u>STP 2213(I)</u>
	FILE NAME: <u>p99b178.dgn</u> PLOT DATE: <u>28-MAY-2010 13:4</u>
	PROJECT LEADER: <u>JLL</u> DRAWN BY: <u>STANTEC</u>
DESIGNED BY: <u>STANTEC</u> CHECKED BY: <u>JLL</u>	
IPARM FILE: z99b178bds8.i SHEET <u>81</u> OF <u>84</u>	





SEE VAOT STANDARDS E-100 AND E-100A FOR SIGN PLACEMENT.

LOCATION	ERW	RW500	RWA	SRWA	SRW500	RWN	PCMS
BRADFORD							
VT ROUTE 25 - BEGIN PROJECT	1	2	2			1	1
TAPLIN HILL ROAD T.H. 4	1		1				
CORINTH							
VILLAGE ROAD T.H. 1	1		1				
TAPLIN HILL ROAD T.H.28	1		1				
FAIRGROUND ROAD	1		1				
BROOK ROAD T.H.4	1		1				
LIMLAW ROAD T.H.14	1		1				
BRULEIGH ROAD T.H. 15	1		1				
TOPSHAM							
WAITS RIVER VALLEY SCHOOL ROAD	1		1				
WATSON HILL ROAD T.H. 38	1		1				
PIKE HILL ROAD T.H. 57	1		1				
GENDRON ROAD T.H. 72	1		1				
HONEY CORNERS ROAD T.H. 36	1		1				
PERRY/WATERMAN ROAD T.H. 49	1		1				
E. ORANGE ROAD T.H. 3	1		1				
E. ORANGE ROAD T.H. 48	1		1				
WARSLEY ROAD T.H. 80	1		1				
BATTEN ROAD T.H. 34	1		1				
MILL ROAD T.H. 81	1		1				
GUY ALLEN ROAD T.H. 36	1		1				
KIMBALL HILL ROAD T.H. 25	1		1				
CROSSROADS ROAD T.H. 24	1		1				
T.H. 70	1		1				
U.S ROUTE 302	2	4	4				
VT ROUTE 25 - END PROJECT						1	1
TOTAL	25	6	28			2	2

LEGEND

- ERW = END ROAD WORK
- RW500 = ROAD WORK 500 FT
- RWA = ROAD WORK AHEAD
- SRWA = SIDE ROAD WORK AHEAD
- SRW500 = SIDE ROAD WORK 500 FT
- RWN = ROAD WORK NEXT 1/2 MILES
- PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. SEE VAOT STANDARD E-100 FOR ADDITIONAL SIGN PLACEMENT.
2. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS AND SPECIAL PROVISIONS.
4. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
5. RETROREFLECTIVE SHEETING SHALL BE TYPE III OR VIII AS NOTED ON VAOT STANDARD E-100 AND IN THE SPECIAL PROVISIONS.
6. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED AS OUTLINED IN THE SPECIAL PROVISIONS.
7. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOM OF THE SIGNS IS ABOVE THE TOP OF GUARDRAIL.
8. AS THE PAVING OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 1000 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
9. PAYMENT FOR CONSTRUCTION SIGNING WILL BE MADE UNDER ITEM 641.10 TRAFFIC CONTROL.
10. CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.
11. PORTABLE CHANGEABLE MESSAGE SIGNS ARE OPTIONAL AND ARE TO BE USED AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 641.15.

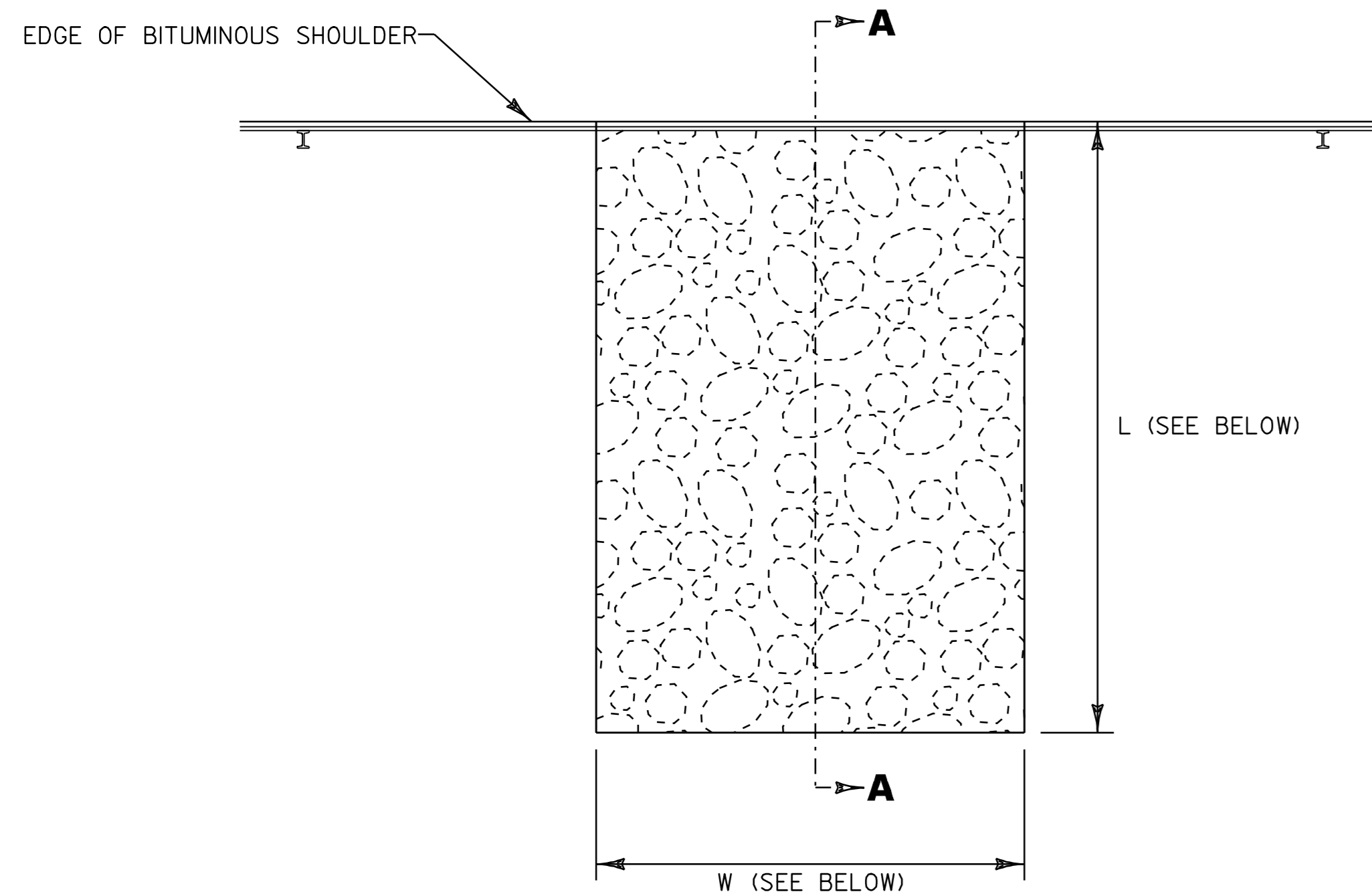


NOT TO SCALE

TEMPORARY TRAFFIC CONTROL PLAN

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178ttcp.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	82 OF 84

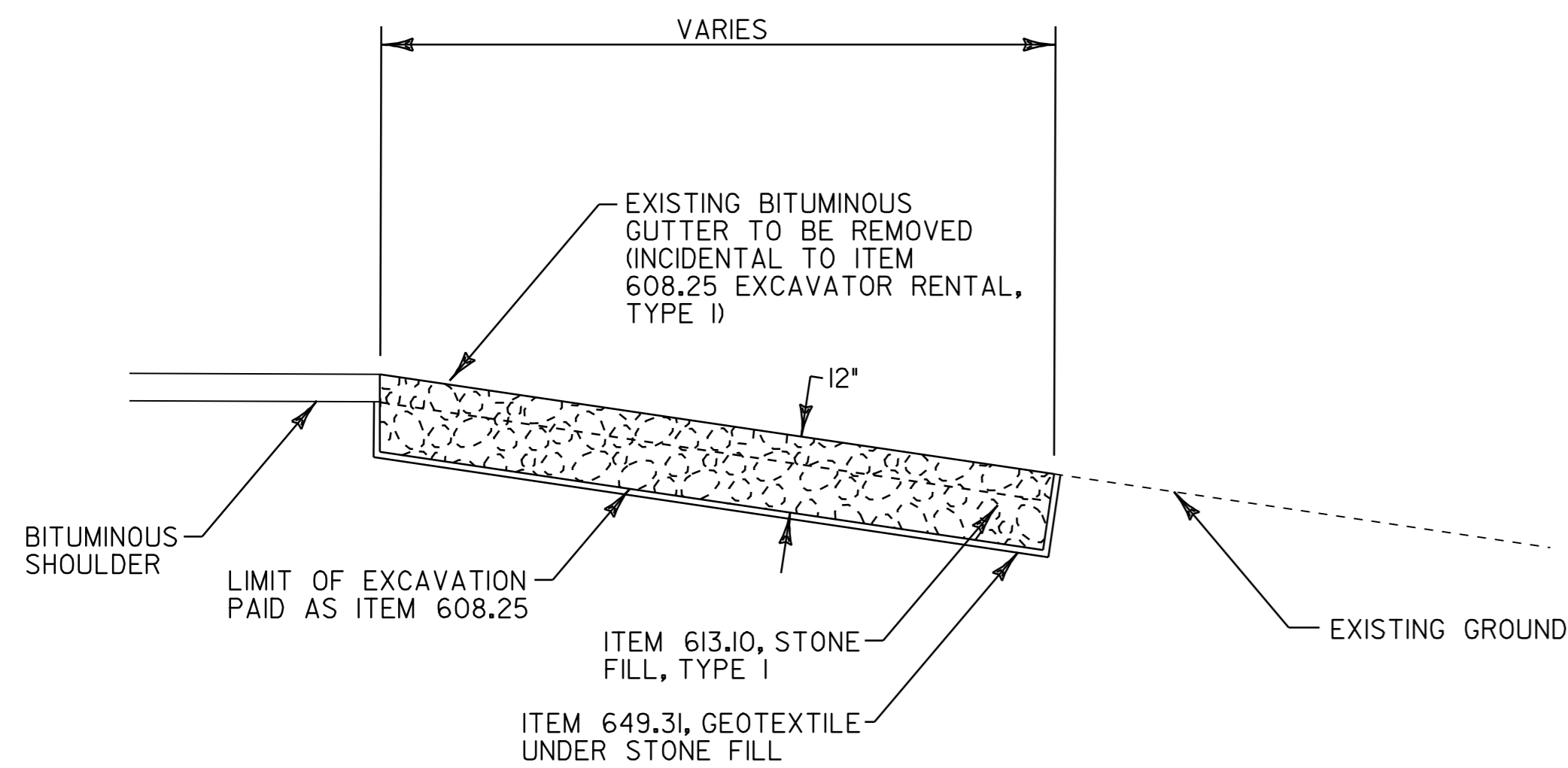
ROADWAY



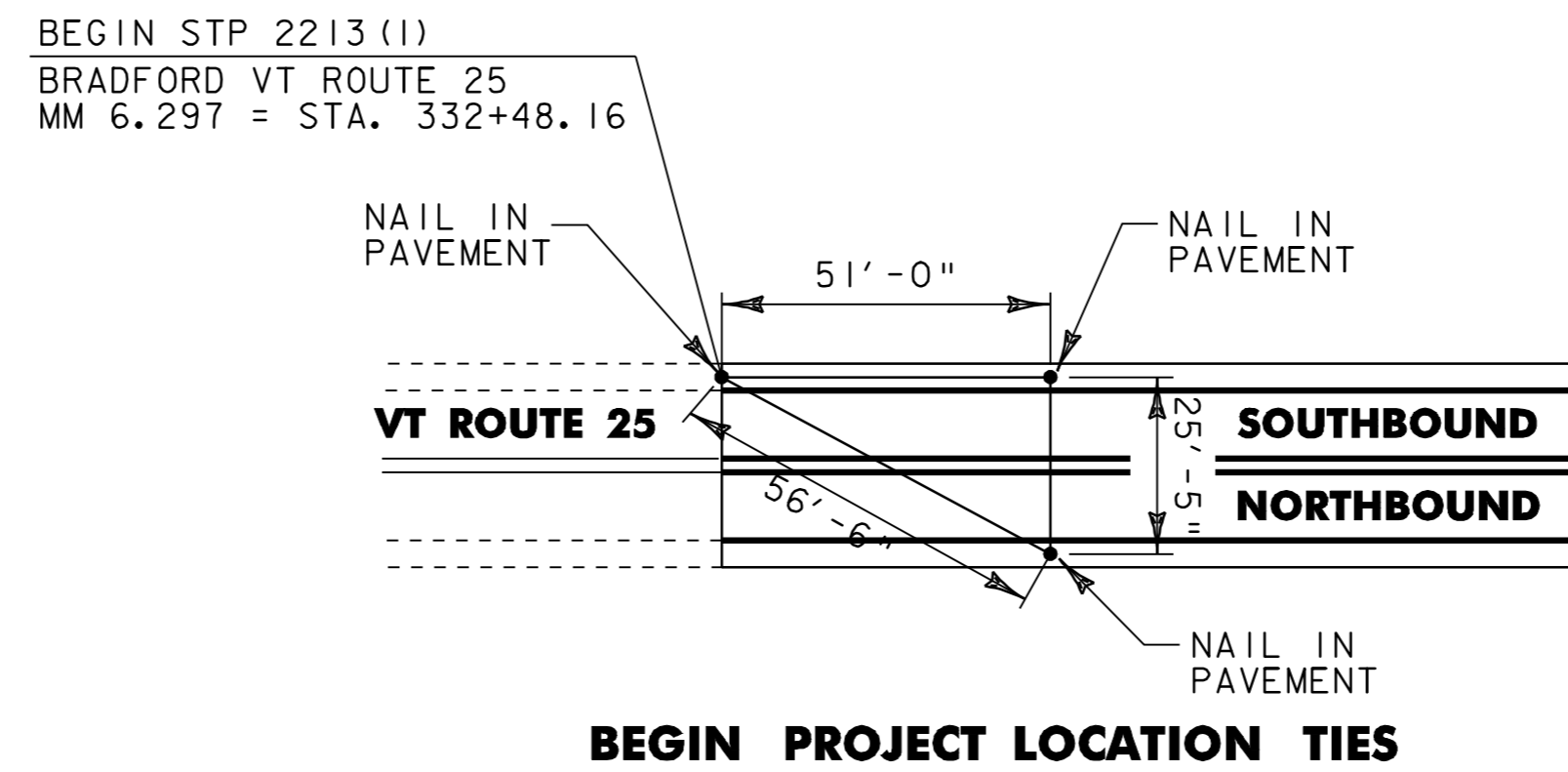
**STONE FILL, TYPE I SLOPE GUTTER
PLAN VIEW**

DIMENSIONS = (L x W x D)

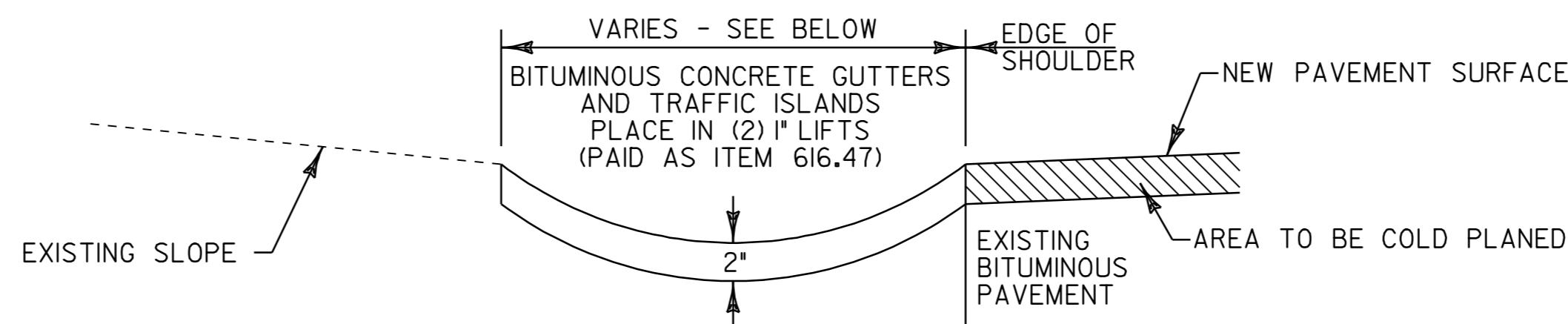
- TOPSHAM STA. 129+20, LT (10' x 5' x 1')
- TOPSHAM STA. 267+27, RT (10' x 5' x 1')
- TOPSHAM STA. 270+85, RT (10' x 5' x 1')



SECTION A-A

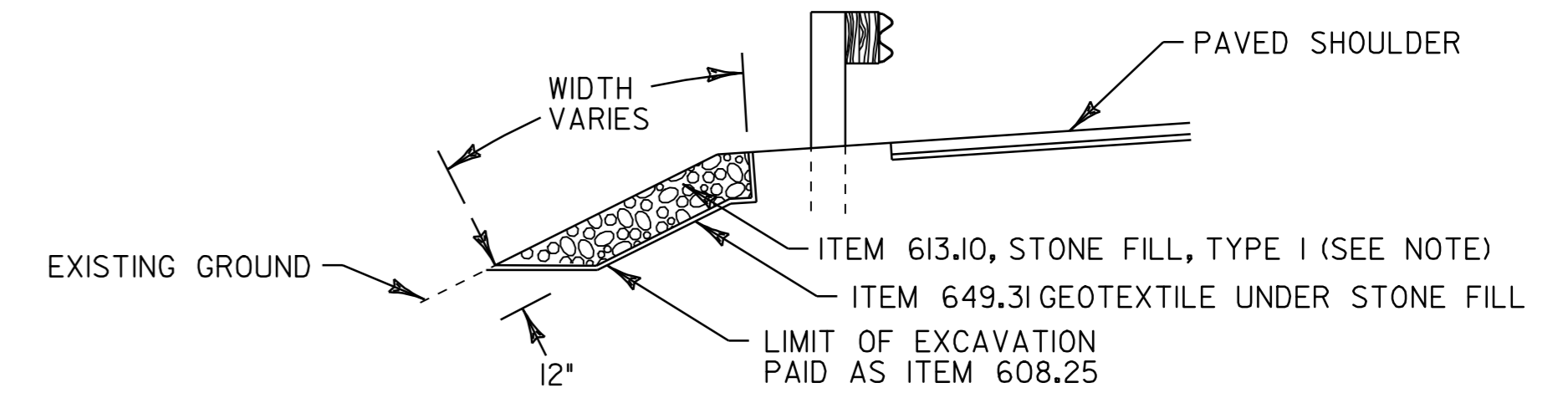


BEGIN PROJECT LOCATION TIES



BITUMINOUS CONCRETE GUTTER DETAIL

- TOPSHAM STA. 240+70 TO 240+86, LT (4'-6' WIDE)
- TOPSHAM STA. 242+11 TO 245+86, RT (4' WIDE)
- TOPSHAM STA. 259+88 TO 261+96, RT (3' WIDE)



SLOPE EROSION REPAIR DETAIL

(ASSUME A 6' LENGTH UNLESS OTHERWISE NOTED)

- BRADFORD STA. 345+31, LT
- BRADFORD STA. 347+21, RT
- CORINTH STA. 14+30, RT
- CORINTH STA. 36+25, RT
- CORINTH STA. 36+45, RT
- CORINTH STA. 67+50, LT
- CORINTH STA. 71+00, LT
- CORINTH STA. 78+00 TO 78+50, RT (50' ±)
- CORINTH STA. 87+16, LT
- CORINTH STA. 139+15, RT
- CORINTH STA. 152+77, RT
- CORINTH STA. 156+48, RT
- CORINTH STA. 157+99, RT
- TOPSHAM STA. 60+06, LT (20' ±)
- TOPSHAM STA. 85+44, LT
- TOPSHAM STA. 87+66, RT
- TOPSHAM STA. 94+23, RT
- TOPSHAM STA. 100+96, LT
- TOPSHAM STA. 193+40 TO 194+59, RT (120' ±)
- TOPSHAM STA. 234+21, LT
- TOPSHAM STA. 261+16 TO 261+23, RT (7' ±)
- TOPSHAM STA. 268+83, RT
- TOPSHAM STA. 280+29, LT
- TOPSHAM STA. 280+82, LT
- TOPSHAM STA. 280+91, LT
- TOPSHAM STA. 302+07, RT
- TOPSHAM STA. 318+34, LT
- TOPSHAM STA. 334+49, LT
- ORANGE STA. 5+83 TO 7+01, LT (118' ±)
- ORANGE STA. 7+90 TO 8+60, LT (70' ±)

NOTE: AN ESTIMATED QUANTITY OF ITEM 613.10 STONE FILL, TYPE I HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE	
MISCELLANEOUS DETAIL SHEET	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178md.i	SHEET 83 OF 84



