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**State of Vermont**  
**Contract Administration**  
Barre City Place  
219 North Main Street  
Barre VT 05641  
<http://vtrans.vermont.gov>

*Agency of Transportation  
Finance & Administration*  
[phone] 802-622-1285  
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April 10, 2026

**Co3265 – Pittsford-Brandon NH 019-3(494)**

**ADDENDUM #4**

Bidders:

Changes have been made to the documents located on the Bid Opportunity website as noted below:

**REVISED:**

Invitation for Bids updated to reflect quantity updates.

Plan Sheets 30, 31, 32, 33, 36, 37, 226, 238, 256, 265, 270, 429, 432 & 433 have been revised.

**ADDED:**

None.

**DELETED:**

None.

**VTrans Mission and Vision**

Through excellent customer service, provide for the safe and efficient movement of people and goods.  
A safe, reliable, and multimodal transportation system that grows the economy, is affordable to use and operate, and serves vulnerable populations.



# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1011 - ROADWAY	1031 - TRAINING	1041 - LANDSCAPING	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1221 - BRIDGE NO. 2	1231 - BRIDGE NO. 3	1999 - FULL C.E. ITEMS	2011 - ROADWAY		GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
1										1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.1000	-			<b>MATERIAL TRANSFER VEHICLE</b>
0.025										0.025		ACRE	THINNING AND TRIMMING	201.3000	-	16403 TON		TYPE IS, QA TIER I
74200										74200		CY	COMMON EXCAVATION	203.1500	86	9400 TON		TYPE IIS, QA TIER I
7900										7900		CY	SOLID ROCK EXCAVATION	203.1600	81	25803 TON		SUBTOTAL
				190						190		CY	UNCLASSIFIED EXCAVATION	203.1700	5	147 TON		ROUNDING
				330	55	35				420		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.2700	10	25950 TON		TOTAL
				835	55	40				4180		CY	EARTH BORROW	203.3000	53			
										30500		CY	SAND BORROW	203.3100	210			
								150		5450	5500	CY	TRENCH EXCAVATION OF EARTH	204.2000	-58			
										-13	60	CY	TRENCH EXCAVATION OF ROCK	204.2100	-8			
										1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.2200	EST.			
				1475	245	145				2315		CY	STRUCTURE EXCAVATION	204.2500	7			
				645	360	245		40		1965		CY	GRANULAR BACKFILL FOR STRUCTURES	204.3000	37			
										425		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.1000	22			
										1		LS	RETAINING WALL, PRECAST CONCRETE	225.0400	-			
										1		LS	TEMPORARY ROADWAY WIDENING	240.0100002	-			
					1					1		LS	TEMPORARY TRAFFIC DIVERSION (BR 111)	240.0100003	-			
										1		LS	TEMPORARY TRAFFIC DIVERSION (BR 110)	240.0100003	-			
								250		255	2050	CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.2600	-11			
										37750		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.3500	332			
								65		335		CY	AGGREGATE SURFACE COURSE	401.1000	16			
										975		TON	AGGREGATE SHOULDERS, RAP	402.1300	10			
										600		CWT	TACK COAT, EMULSIFIED ASPHALT	404.1100	16			
										17100		TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IS, QA TIER I	406.0110	81			
										9800		TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER I	406.0310	48			
										195		TON	BITUMINOUS CONCRETE PAVEMENT, TYPE IIS, QA TIER I	406.0430	10			
								20		360		SY	BITUMINOUS CONCRETE PAVEMENT, NON-PAVER PLACED, TYPE IVS	406.3400	10			
										1		DL	PAY ADJUSTMENT, BCP, MIXTURE PROPERTIES (N.A.B.I.)	406.9100	-			
										1		DL	PAY ADJUSTMENT, BCP, MAT DENSITY (N.A.B.I.)	406.9200	-			
										1		DL	PAY ADJUSTMENT, BCP, LONGITUDINAL JOINT DENSITY (N.A.B.I.)	406.9300	-			
										1		DL	PAY ADJUSTMENT, BCP, PAVEMENT ROUGHNESS (N.A.B.I.)	406.9400	-			
										26950		TON	MATERIAL TRANSFER VEHICLE	410.1000	179			
										1105		LB	REINFORCING STEEL, LEVEL I (BLACK)	507.1100	-2			
										40		FT	DRILLING AND GROUTING DOWELS	507.1600	4			
										1075		GAL	WATER REPELLENT, SILANE	514.1000	3			
										1		EACH	PARTIAL REMOVAL OF STRUCTURE (BR 112)	529.2000	-			
										1		EACH	PARTIAL REMOVAL OF STRUCTURE (BR 111)	529.2000	-			
										1		EACH	PARTIAL REMOVAL OF STRUCTURE (BR 110)	529.2000	-			
										1		LS	PRECAST CONCRETE STRUCTURE (BR 112) (1220 X 1525 X 11380 OUTLET EXTENSION)	540.1000	-			
										1		LS	PRECAST CONCRETE STRUCTURE (BR 111) (1220 X 1525 X 10335 OUTLET EXTENSION)	540.1000	-			
										1		LS	PRECAST CONCRETE STRUCTURE (BR 111) (1220 X 1525 X 1205 INLET EXTENSION)	540.1000	-			

ADDENDUM	REVISION	DATE	DESCRIPTION	BY
3	1	4-2-26	REVISED ITEM 301.26 SUBBASE OF CRUSHED GRAVEL, FINE GRADED	SNG
4	2	4-10-26	REVISED ITEM 204.2000 TRENCH EXCAVATION OF EARTH; REVISED ITEM 204.2100 TRENCH EXCAVATION OF ROCK; REVISED ITEM 507.1100 REINFORCING STEEL, LEVEL I (BLACK); ADDED ITEM 507.1600 DRILLING AND GROUTING DOWELS	SRB/ SNG



PROJECT NAME: PITTSFORD-BRANDON  
PROJECT NUMBER: NH 019-3(494)

FILE NAME: d02b198\_frm.dgn  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: M. HALEY  
QUANTITY SHEET 1

PLOT DATE: 4/10/2026  
DRAWN BY: N. LEMAY  
CHECKED BY: P. SHEDD  
SHEET 30 OF 529

# QUANTITY SHEET 2

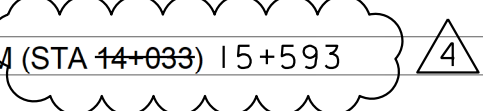
SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1011 - ROADWAY	1031 - TRAINING	1041 - LANDSCAPING	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1221 - BRIDGE NO. 2	1231 - BRIDGE NO. 3	1999 - FULL C.E. ITEMS	2011 - ROADWAY		GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
				1						1		LS	PRECAST CONCRETE STRUCTURE (BR 110) (4267 X 3050 X 37000 BOX CULVERT)	540.1000	-			
1										1		EACH	PRECAST CONCRETE STRUCTURE (1050 MM PIPE HEADWALL)	540.1500	-			
1										1		EACH	PRECAST CONCRETE STRUCTURE (450 MM PIPE HEADWALL)	540.1500	-			
1										1		EACH	PRECAST CONCRETE STRUCTURE (750 MM PIPE HEADWALL)	540.1500	-			
1										1		EACH	PRECAST CONCRETE STRUCTURE (900 MM PIPE HEADWALL)	540.1500	-			
10										<del>10</del> 25		CY	CONCRETE, CLASS B	541.2200	<del>-</del> 3			
310										310		LF	18 INCH PCCSP .064 (2-2/3 x 1/2)	601.0415	-			
100										100		LF	24 INCH PCCSP .064 (2-2/3 x 1/2)	601.0425	-			
435								175		610		LF	30 INCH PCCSP .079 (2-2/3 x 1/2)	601.0436	-			
90										90		LF	36 INCH PCCSP .079 (2-2/3 x 1/2)	601.0446	-			
125										125		LF	42 INCH PCCSP .109 (2-2/3 x 1/2)	601.0452	-			
495										495		LF	18 INCH CPEP(SL)	601.2615	-			
360										360		LF	24 INCH CPEP(SL)	601.2620	-			
110										110		LF	30 INCH CPEP(SL)	601.2625	-			
110										110		LF	36 INCH CPEP(SL)	601.2630	-			
11										11		EACH	18 INCH CSPES .064 (2-2/3 x 1/2)	601.6015	-			
1										1		EACH	36 INCH CSPES .079 (2-2/3 x 1/2)	601.6046	-			
1										1		EACH	42 INCH CSPES .109 (2-2/3 x 1/2)	601.6052	-			
20										20		EACH	18 INCH CPEPES	601.7015	-			
<del>10</del>										<del>10</del>		CY	REBUILT STONE MASONRY	602.3500	<del>1</del>			
								1		1		EACH	PRECAST REINFORCED CONCRETE DI WITH CAST IRON GRATE (1.2 M DIA.) (TRASH RAC	604.1800	-			
								1		1		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (1.2 M DIA.)	604.2000	-			
9										9		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (1.5 M DIA.)	604.2000	-			
1										1		EACH	CHANGING ELEVATION OF DIS, CATCH BASINS, OR MANHOLES	604.4000	-			
5725										5725		LF	UNDERDRAIN PIPE, 8 INCH	605.1008	15			
525										525		LF	UNDERDRAIN CARRIER PIPE, 8 INCH	605.2008	15			
17										17		EACH	UNDERDRAIN FLUSHING BASIN	605.9500	-			
50										50		HR	BULLDOZER RENTAL, TYPE I	608.1001	EST.			
50										50		HR	POWER GRADER RENTAL	608.1500	EST.			
100										100		HR	ALL-PURPOSE EXCAVATOR RENTAL, TYPE I	608.2501	EST.			
50										50		HR	POWER BROOM RENTAL, TYPE I	608.3001	EST.			
125										125		HR	TRUCK RENTAL	608.3700	EST.			
50										50		HR	LOADER RENTAL, TYPE I	608.4001	EST.			
2600										2600		MGAL	DUST CONTROL WITH WATER	609.1000	EST.			
15										15		TON	DUST CONTROL WITH CALCIUM CHLORIDE	609.1500	EST.			
1										1		LS	GNSS MACHINE CONTROL GRADING	610.1000	-			
1										1		EACH	GNSS CONSTRUCTION INSPECTION EQUIPMENT	610.2000	-			
1										1		LS	GNSS CONSTRUCTION INSPECTION SURFACE MODELS	610.2500	-			
					52	37				89		CY	E-STONE FILL, TYPE II	613.0602	1			
				495						495		CY	E-STONE FILL, TYPE III	613.0603	-			


ADDENDUM	REVISION	DATE	DESCRIPTION	BY
2	1	3-27-26	REMOVE ITEM 602.3500 REBUILT STONE MASONRY	SNG
4	2	4-10-26	REVISED ITEM 541.2200 CONCRETE, CLASS B	SRB

PROJECT NAME:	PITTSFORD-BRANDON
PROJECT NUMBER:	NH 019-3(494)
FILE NAME:	d02b198_frm.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	M. HALEY
QUANTITY SHEET 2	
PLOT DATE:	4/10/2026
DRAWN BY:	N. LEMAY
CHECKED BY:	P. SHEDD
SHEET	31 OF 529



# QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1011 - ROADWAY	1031 - TRAINING	1041 - LANDSCAPING	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1221 - BRIDGE NO. 2	1231 - BRIDGE NO. 3	1999 - FULL C.E. ITEMS	2011 - ROADWAY		GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
								225		225		CY	STONE FILL, TYPE I	613.1001	4			
465					33	20		10		528		CY	STONE FILL, TYPE II	613.1002	7			
				160						160		CY	STONE FILL, TYPE III	613.1003	3			
						1				1		EACH	TEMPORARY RELOCATION OF STREAM (BR 112)	614.1000	-			
					1					1		EACH	TEMPORARY RELOCATION OF STREAM (BR 111)	614.1000	-			
				1						1		EACH	TEMPORARY RELOCATION OF STREAM (BR 110)	614.1000	-			
			1							1		EACH	TEMPORARY RELOCATION OF STREAM (STA 14+099) 15+593 	614.1000	-			
13										13		EACH	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	617.1100	-			
9										9		EACH	REMOVE AND RESET MAILBOX, MULTIPLE SUPPORT	617.1200	-			
39								2		41		EACH	YIELDING MARKER POSTS	619.1700	-			
1475										1475		LF	WOVEN WIRE FENCE WITH STEEL POSTS	620.2500	15			
325										325		LF	WOVEN WIRE FENCE WITH WOOD POSTS	620.2600	10			
1										1		EACH	DRIVE GATE FOR WOVEN WIRE FENCE	620.3000	-			
200										200		LF	PLANK RAIL FENCE	620.4500	8			
500										500		LF	REMOVING AND RESETTING FENCE	620.5000	52			
5100										5100		LF	REMOVAL OF EXISTING FENCE	620.5500	19			
								1		1		EACH	VEHICULAR GATE	620.8200001	-			
160										160		LF	HAND RAILING	620.9000	-			
1575										1575		LF	REMOVAL OF GUARDRAIL	621.0100	3			
2325										2325		LF	STEEL BEAM GUARDRAIL	621.1060	22			
8										8		EACH	ANCHOR FOR STEEL BEAM GUARDRAIL, MGS	621.1530	-			
2										2		EACH	MTS, MGS, TANGENT, TL-3	621.3030	-			
6										6		EACH	MTS, MGS, FLARED, TL-3	621.3130	-			
								1		1		LF	PVC SEWER PIPE, 2 INCH	628.1408	-			
								10		10		LF	PVC SEWER PIPE, 4 INCH	628.1416	2			
4500										4500		HR	UNIFORMED TRAFFIC OFFICERS	630.1000	EST.			
13000										13000		HR	FLAGGERS	630.1500	EST.			
							1			1		LS	FIELD OFFICE, ENGINEER'S	631.1000	-			
							1			1		LS	TESTING EQUIPMENT, CONCRETE	631.1600	-			
							1			1		LS	TESTING EQUIPMENT, BITUMINOUS	631.1700	-			
							1			1		LS	TESTING EQUIPMENT, GROUT	631.1900	-			
							9000			9000		DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.2600	-			
30										30		EACH	CPM SCHEDULE	633.1000	-			
	1040									1040		HR	EMPLOYEE TRAINEESHIP	634.1000	-			
1										1		LS	MOBILIZATION/DEMOBILIZATION	635.1100	-			
1										1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.1100	-			
2										2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.1500	-			
20000										20000		LF	DURABLE 4 INCH WHITE LINE, RECESSED POLYUREA	646.4060	374			
19000										19000		LF	DURABLE 4 INCH YELLOW LINE, RECESSED POLYUREA	646.4160	360			
35										35		LF	DURABLE 8 INCH YELLOW LINE, RECESSED POLYUREA	646.4560	2			

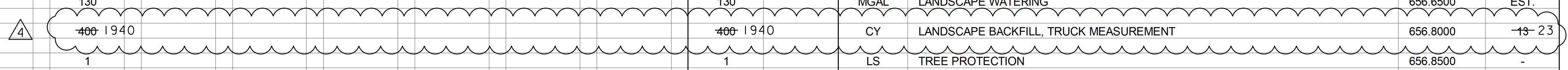
ADDENDUM	REVISION	DATE	DESCRIPTION	BY
	1	4-10-26	REVISED SUPPLEMENTAL DESCRIPTION OF ITEM 641.000 TEMPORARY RELOCATION OF STREAM	SNG

PROJECT NAME:	PITTSFORD-BRANDON
PROJECT NUMBER:	NH 019-3(494)
FILE NAME:	d02b198_frm.dgn
PROJECT LEADER:	K. UPMAL
DESIGNED BY:	M. HALEY
QUANTITY SHEET 3	
PLOT DATE:	4/10/2026
DRAWN BY:	N. LEMAY
CHECKED BY:	P. SHEDD
SHEET	32 OF 529



# QUANTITY SHEET 4

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
1011 - ROADWAY	1031 - TRAINING	1041 - LANDSCAPING	1051 - EROSION CONTROL	1211 - BRIDGE NO. 1	1221 - BRIDGE NO. 2	1231 - BRIDGE NO. 3	1999 - FULL C.E. ITEMS	2011 - ROADWAY		GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
12										12		EACH	DURABLE LETTER OR SYMBOL, RECESSED POLYUREA	646.4960	-			
59000										59000		LF	TEMPORARY 4 INCH WHITE LINE	646.6000	123			
56000										56000		LF	TEMPORARY 4 INCH YELLOW LINE	646.6100	81			
12										12		EACH	TEMPORARY LETTER OR SYMBOL	646.6900	-			
4200										4200		EACH	LINE STRIPING TARGETS	646.7600	26			
4500								750		5250		SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.1100	72			
2500				540	195	120		30		3385		SY	GEOTEXTILE UNDER STONE FILL	649.3100	174			
			92500					4250		96750		SY	TURF ESTABLISHMENT, GENERAL SEED	651.1500	84			
			4250							4250		SY	TURF ESTABLISHMENT, SPECIALTY SEED	651.1600	26			
475										475		SY	TURF ESTABLISHMENT, SOD	651.1800	21			
10750								475		11225		CY	TOPSOIL	651.3500	191			
430										430		SY	GRUBBING MATERIAL, 2 INCH	651.4002	7			
110										110		SY	GRUBBING MATERIAL, 6 INCH	651.4006	11			
				115	34	27				176		SY	GRUBBING MATERIAL, 12 INCH	651.4012	3			
			1							1		LS	EPSC PLAN	653.0100	-			
			700							700		HR	MONITORING EPSC PLAN	653.0200	EST.			
			10000							10000		DL	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.0300	EST.			
			55					5		60		TON	HAY MULCH	653.1000	3			
			2							2		TON	STRAW MULCH	653.1200	-			
			23000							23000		SY	ROLLED EROSION CONTROL PRODUCT, TYPE I	653.2001	131			
			6750							6750		SY	ROLLED EROSION CONTROL PRODUCT, TYPE II	653.2002	55			
			300							300		CY	CHECK DAM, TYPE I	653.2501	EST.			
			35							35		CY	STABILIZED CONSTRUCTION ENTRANCE	653.3500	6			
			10							10		EACH	INLET PROTECTION DEVICE, TYPE I	653.4001	-			
			35							35		CY	INLET PROTECTION DEVICE, TYPE III	653.4003	EST.			
			4							4		EACH	FILTER BAG	653.4500	-			
			6500							6500		LF	SILT FENCE, TYPE I	653.4701	91			
			1900							1900		LF	SILT FENCE, TYPE II	653.4702	102			
			4650							4650		LF	BARRIER FENCE	653.5000	50			
			14500							14500		LF	PROJECT DEMARCATION FENCE	653.5500	96			
			6500							6500		LF	EROSION LOG	653.6000	91			
			48							48		EACH	EVERGREEN TREES, MEDIUM	656.2002	-			
			3							3		EACH	DECIDUOUS TREES, MEDIUM	656.3002	-			
			42							42		EACH	DECIDUOUS TREES, LARGE	656.3003	-			
			241							241		EACH	DECIDUOUS SHRUBS	656.3500	-			
			1							1		EACH	TRANSPLANTING TREES	656.4500	-			
			1							1		EACH	TRANSPLANTING SHRUBS	656.5000	-			
			130							130		MGAL	LANDSCAPE WATERING	656.6500	EST.			
			1							1		CY	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.8000	13-2.3			
			1							1		LS	TREE PROTECTION	656.8500	-			



ADDENDUM	REVISION	DATE	DESCRIPTION	BY
4	I	4-10-26	REVISED ITEM 656.8000 LANDSCAPE BACKFILL, TRUCK MEASUREMENT	SNG

PROJECT NAME: PITTSFORD-BRANDON  
PROJECT NUMBER: NH 019-3(494)

FILE NAME: d02b198\_frm.dgn  
PROJECT LEADER: K. UPMAL  
DESIGNED BY: M. HALEY  
QUANTITY SHEET 4

PLOT DATE: 4/10/2026  
DRAWN BY: N. LEMAY  
CHECKED BY: P. SHEDD  
SHEET 33 OF 529







**GENERAL**

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2020, AND ITS LATEST REVISIONS.

**TEMPORARY RELOCATION OF STREAM NOTES**

2. THE CONTRACTOR SHALL PROVIDE TEMPORARY STREAM RELOCATION BY PUMPING OR OTHER APPROVED METHOD AS REQUIRED DURING CONSTRUCTION. TEMPORARY RELOCATION OF STREAM WILL BE PAID FOR UNDER ITEM 614.1000, "TEMPORARY RELOCATION OF STREAM".

**PRECAST CONCRETE BRIDGE SYSTEM**

3. THE LUMP SUM COST FOR ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 110) (4267 X 3050 X 37000 BOX CULVERT)", ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 111) (1220 X 1525 X 10335 OUTLET EXTENSION)", ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 111) (1220 X 1525 X 1205 INLET EXTENSION)", AND ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 112) (1220 X 1525 X 11380 OUTLET EXTENSION)", AS APPLICABLE, SHALL INCLUDE THE DESIGN, FABRICATION, DELIVERY, HANDLING, REPAIR AND CONSTRUCTION OF ALL THE PRECAST BRIDGE ELEMENTS, INCLUDING THE BOX CULVERT, HEADWALLS, CUT-OFF WALLS, CAST-IN-PLACE CONCRETE TRANSITIONS, WINGWALLS, WINGWALL FOOTINGS, REINFORCING STEEL, CONNECTION HARDWARE, AND DRAINAGE MATERIALS.
4. THE FABRICATOR SHALL SUPPLY THE STATE WITH THE LRFD LOAD RATING FACTORS FOR THE BOX CULVERT. COMPLETE AND SUBMIT THE LOAD RATING TABLE ON THE PRELIMINARY INFORMATION SHEET, AND SUBMIT IT WITH THE BOX CULVERT DESIGN.
5. THE BOX CULVERT LAYOUTS WERE DETERMINED USING ASSUMED DIMENSIONS AS SPECIFIED IN THE PLANS. THE CONTRACTOR MAY UTILIZE A BOX CULVERT WITH ALTERNATE GEOMETRY FROM THAT SHOWN IN THE PLANS PROVIDED ALL UNITS EXCEPT THE FIRST AND LAST ARE THE SAME SHAPE AND LENGTH. HOWEVER, IF THE THICKNESSES OF THE STRUCTURE SHAPE VARY FROM THE ASSUMED DIMENSIONS, INVERT ELEVATIONS SHALL REMAIN THE SAME, AND STRUCTURE SPAN, RISE, AND WATERWAY OPENING SHALL REMAIN THE SAME AS OR GREATER THAN WHAT IS SPECIFIED ON THE PLANS. THE HEADWALL SHALL BE ADJUSTED TO MAINTAIN THE PROPOSED ROADWAY PROFILE AND SIDE SLOPE GRADES. CULVERT ENDS SHALL BE CAST VERTICAL.
6. RECORD PLANS FOR BR 111 AND BR 112 ARE NOT AVAILABLE. DIMENSIONS SHOWN ON THE PLANS ARE ASSUMED. THE CONTRACTOR SHALL FIELD VERIFY EXISTING STRUCTURE DIMENSIONS PRIOR TO FABRICATING UPSTREAM AND DOWNSTREAM EXTENSIONS.
7. THE BR 110 BOX CULVERT BED RETENTION SILLS SHALL BE PLACED SUCH THAT ONE SILL PER BOX SECTION IS PROVIDED. BED RETENTION SILLS WILL BE INCLUDED IN PAYMENT FOR ITEM 540.1000.
8. QUANTITIES SHOWN FOR STRUCTURAL EARTHWORK ARE BASED ON THE ASSUMED STRUCTURE DIMENSIONS AND WINGWALL SYSTEM SHOWN AND SHALL NOT BE UTILIZED BY THE FABRICATOR AS REQUIRED DIMENSIONS FOR THE STRUCTURE. IF ACTUAL STRUCTURAL EARTHWORK QUANTITIES VARY FROM WHAT IS SHOWN ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. ROADWAY SUBBASE EXCAVATION WILL BE PAID FOR UNDER COMMON EXCAVATION AND WILL NOT BE INCLUDED UNDER STRUCTURE EXCAVATION OR UNCLASSIFIED EXCAVATION. WHENEVER THE BACKFILL SLOPE INTERSECTS ROADWAY SUBBASE, GRANULAR BACKFILL FOR STRUCTURES, STRUCTURE EXCAVATION, AND UNCLASSIFIED EXCAVATION SHALL BEGIN AT THE BOTTOM OF SUBBASE.

**PRECAST CONCRETE BRIDGE SYSTEM (CONTINUED)**

10. THE PRECAST BRIDGE SYSTEM SHALL BE DESIGNED PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2020, AND ITS LATEST REVISIONS, AND SHALL CONSIDER THE FOLLOWING DESIGN CRITERIA:

- A. DESIGN LOADING:
- B. WEIGHT OF BACKFILL MATERIAL:
- C. CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH:
- D. PRECAST CONCRETE COMPRESSIVE STRENGTH:
- E. REINFORCING STEEL, LEVEL I - EPOXY COATED:
- F. FACTORED BEARING RESISTANCES:

HL-93  
140 PCF 3,500  
f'c = 5,000 PSI  
f'c = 5,000 PSI  
fy = 60,000 PSI

- a. EFFECTIVE FOOTING WIDTH = 0.61 M:  
BR 110 WINGWALL: 4.8 KSF  
BR 111 WINGWALL: 4.4 KSF  
BR 112 WINGWALL: 1.5 KSF
- b. EFFECTIVE FOOTING WIDTH = 1.22 M:  
BR 110 WINGWALL: 8.7 KSF  
BR 111 WINGWALL: 8.3 KSF  
BR 112 WINGWALL: 2.9 KSF
- c. EFFECTIVE FOOTING WIDTH = 1.83 M:  
BR 110 WINGWALL: 11.7 KSF  
BR 111 WINGWALL: 11.6 KSF  
BR 112 WINGWALL: 4.1 KSF
- d. EFFECTIVE FOOTING WIDTH = 2.44 M:  
BR 110 WINGWALL: 13.8 KSF  
BR 111 WINGWALL: 14.3 KSF  
BR 112 WINGWALL: 5.1 KSF

11. REINFORCING STEEL CLEAR COVER REQUIREMENTS ARE STATED ACCORDING TO THE FOLLOWING UNLESS OTHERWISE NOTED IN THE PLANS:

- A. INSIDE FACES OF BOX 40 MM
- B. EXPOSED TO EARTH OR WEATHER 50 MM
- C. TOP OF THE OUTSIDE FACES OF BOX 65 MM
- D. DIRECT EXPOSURE TO DEICING SALTS (HEADWALL, FASCIA, CURB, ETC.) 75 MM
- E. CAST AGAINST EARTH 75 MM

12. TEST BARS SHALL BE PROVIDED IN ACCORDANCE WITH THE "VERMONT AGENCY OF TRANSPORTATION MATERIAL SAMPLING MANUAL" AVAILABLE ON THE AGENCY WEBSITE. A MINIMUM OF TWO TEST SECTIONS ARE REQUIRED FOR EACH SIZE, BRAND, AND GRADE OR TYPE OF REINFORCING. SEE THE MANUAL FOR ACCEPTABLE DIMENSIONS OF TEST SECTIONS. ALL COSTS ASSOCIATED WITH PROVIDING BARS FOR TESTING WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE PRECAST ITEM.

13. THE DRILLING OF HOLES IN THE PRECAST CONCRETE ELEMENTS SHALL NOT BE PERMITTED, UNLESS APPROVED IN WRITING BY THE VERMONT AGENCY OF TRANSPORTATION STRUCTURES SECTION.

14. ALL LIFTING POINTS SHALL BE REMOVABLE OR COVERABLE TO THE MINIMUM CLEAR COVER FOR REINFORCING STEEL SPECIFIED IN THE PLANS. THE LIFTING POINTS SHALL BE DETAILED IN THE APPROPRIATE FABRICATION DRAWING. ALL RECESSED LIFTING POINTS AND BLOCK OUTS SHALL BE FILLED WITH MORTAR, TYPE IV PER SUBSECTION 540.11 AND 707.01 (e). PAYMENT FOR THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CORRESPONDING PRECAST ITEM.

**PRECAST CONCRETE BRIDGE SYSTEM (CONTINUED)**

15. THE JOINTS BETWEEN THE PRECAST BOX SECTIONS SHALL BE WATERTIGHT. THE BOX CULVERT JOINT DETAILS (ON WORKING POINTS SHEET BR 110, BR 111, AND BR 112, AS APPLICABLE) SHOWS ONE METHOD OF PROVIDING WATERTIGHT JOINTS UTILIZING FLEXIBLE RUBBER OR PLASTIC GASKETS WITH GALVANIZED STEEL ANGLES AND BOLTS TO DRAW BOX SECTIONS TOGETHER. THESE HARDWARE ASSEMBLIES SHALL BE ATTACHED AS SHOWN ON THE DETAILS AND SHALL BE LEFT IN PLACE. THE EXTERIOR SIDE/VERTICAL JOINTS AND OTHER AREAS TO BE FILLED ON A VERTICAL SURFACE SHALL BE FILLED USING A CONCRETE REPAIR MATERIAL, TYPE I FROM THE AGENCY'S APPROVED PRODUCTS LIST. THE EXTERIOR TOP/HORIZONTAL JOINTS SHALL BE FILLED WITH MORTAR, TYPE IV AS SPECIFIED IN SECTION 540. THE FABRICATOR CAN PROVIDE AN ALTERNATE METHOD OF PROVIDING WATERTIGHT JOINTS FOR REVIEW ON THE SHOP PLANS. ALL COSTS WILL BE CONSIDERED INCIDENTAL TO ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 110) (4267 X 3050 X 37000 BOX CULVERT)", ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 111) (1220 X 1525 X 10335 OUTLET EXTENSION)", ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 111) (1220 X 1525 X 1205 INLET EXTENSION)", AND ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 112) (1220 X 1525 X 11380 OUTLET EXTENSION)", AS APPLICABLE.

16. THE WINGWALL JOINT DETAIL (ON WORKING POINTS SHEET BR 110, BR 111, AND BR 112, AS APPLICABLE) SHOWS ONE METHOD OF CONNECTING THE WINGWALL TO THE BOX. THE FABRICATOR CAN PROVIDE AN ALTERNATE JOINT LAYOUT FOR REVIEW ON THE SHOP PLANS. ALL COSTS WILL BE CONSIDERED INCIDENTAL TO ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 110) (4267 X 3050 X 37000 BOX CULVERT)", ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 111) (1220 X 1525 X 10335 OUTLET EXTENSION)", ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 111) (1220 X 1525 X 1205 INLET EXTENSION)", AND ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 112) (1220 X 1525 X 11380 OUTLET EXTENSION)", AS APPLICABLE.

17. A 610 MM WIDE STRIP SHEET MEMBRANE WATERPROOFING SHALL BE APPLIED AT EACH OUTER SIDE JOINT OF THE BOX AND WINGWALLS, INCLUDING THE JOINT BETWEEN THE BOX AND EACH WINGWALL. ON THE BOX, THE MEMBRANE SHALL BE CENTERED ON THE JOINT AND COVER THE FULL HEIGHT OF THE SIDE JOINTS TO THE TOP OF FOOTING. ON THE WINGWALLS, THE MEMBRANE SHALL BE CENTERED ON THE JOINT AND EXTEND FROM 150 BELOW THE TOP OF THE WINGWALL TO THE TOP OF FOOTING. THE ENTIRE TOP OF THE BOX SHALL THEN BE COVERED WITH MEMBRANE. THE MEMBRANE SHALL OVERLAP THE EDGES BY 305 MM ON EACH SIDE. THE COST WILL BE CONSIDERED INCIDENTAL TO ITEM 540.1000.

18. WEEP HOLES IN THE WINGWALLS AND HEADWALLS (AS APPLICABLE) SHALL BE PLACED APPROXIMATELY EVERY 3000 MM OR AS INDICATED ON THE PLANS. WEEP HOLES SHALL BE SCREENED WITH A STAINLESS STEEL WOVEN WIRE MESH TO RETAIN CRUSHED STONE (MAXIMUM 12 MM SQUARE OPENINGS) AND TO PREVENT ENTRY BY ANIMALS. THIS WORK AND MATERIALS WILL BE CONSIDERED INCIDENTAL TO ITEM 540.1000.

19. ANY UNSUITABLE MATERIALS ENCOUNTERED AT THE BOTTOM OF EXCAVATION FOR THE BOX CULVERT SHALL BE REMOVED AND REPLACED WITH GRANULAR BACKFILL FOR STRUCTURES TO A DEPTH OF 460 MM AS DIRECTED BY THE ENGINEER OR DEEMED NECESSARY BASED ON BORINGS.

20. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED SURFACES OF THE HEADWALLS, WINGWALLS, AND ENDS OF CULVERT TO 305 MM INSIDE CULVERT. THE WATER REPELLENT WILL BE APPLIED TO 305 MM BELOW FINISHED GRADE. WATER REPELLENT, SILANE WILL BE PAID FOR UNDER ITEM 514.1000, "WATER REPELLENT, SILANE".

21. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25 MM X 25 MM.

ADDENDUM	REVISION	DATE	DESCRIPTION	BY
A	1	4-10-26	BR#12 UPSTREAM WINGWALL EXTENSION REVISIONS	SRB

PROJECT NAME:	PITTSFORD-BRANDON
PROJECT NUMBER:	NH 019-3(494)
FILE NAME:	z02b198br_notes.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	R. TRUDEAU
BOX CULVERT NOTES SHEET	
PLOT DATE:	4/10/2026
DRAWN BY:	M. SMITH
CHECKED BY:	S. BEAUMONT
SHEET	226 OF 529



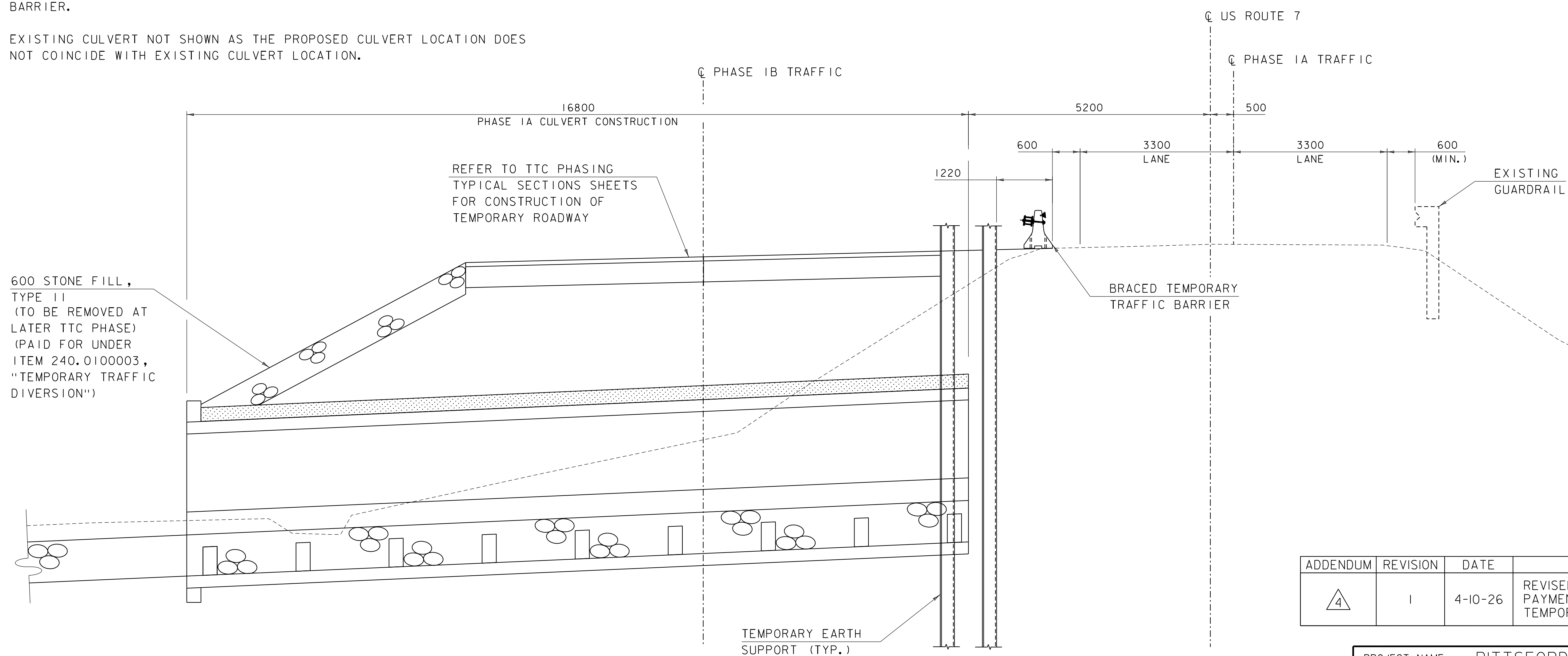
**GENERAL NOTES**

1. CULVERT DIMENSIONS ARE SHOWN ALONG CENTERLINE BOX CULVERT.
2. TEMPORARY EARTH SUPPORT REQUIRED TO ACCOMMODATE PHASED CONSTRUCTION WILL BE PAID FOR UNDER ITEM 240.0100003, "TEMPORARY TRAFFIC DIVERSION". THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW DETAILED PLANS AND A SCHEDULE OF OPERATIONS FOR EACH PHASE OF TEMPORARY EARTH SUPPORT PER THE REQUIREMENTS OF SUBSECTION 208.06. PAYMENT FOR PREPARING PLANS AND SCHEDULE OF OPERATIONS, ALONG WITH ANY REVISIONS REQUIRED, WILL BE INCLUDED UNDER ITEM 240.0100003, "TEMPORARY TRAFFIC DIVERSION".
3. ~~TEMPORARY TRAFFIC BARRIER WILL BE PAID FOR UNDER ITEM 621.2400, "TEMPORARY TRAFFIC BARRIER". REMOVING AND RESETTING TEMPORARY TRAFFIC BARRIER WILL BE PAID FOR UNDER ITEM 621.0200, "REMOVE AND RESET TEMPORARY TRAFFIC BARRIER".~~  
 TEMPORARY TRAFFIC BARRIER AND REMOVING AND RESETTING TRAFFIC BARRIER WILL BE CONSIDERED INCIDENTAL TO ITEM 240.0100003, "TEMPORARY TRAFFIC DIVERSION".
4. BARRIER SHALL BE DELINEATED ON THE TRAFFIC SIDE OF THE BARRIER. DELINEATION COLOR SHALL MATCH CORRESPONDING TEMPORARY PAVEMENT MARKINGS AND WILL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE BARRIER PAY ITEM.
5. BRACED TEMPORARY TRAFFIC BARRIER SHALL BE USED WHEN THE CREST OF THE EXCAVATED BACKSLOPES OR TEMPORARY EARTH SUPPORT IS OFFSET LESS THAN 1.22 METERS FROM THE INSIDE FACE OF THE CONCRETE BARRIER.
6. EXISTING CULVERT NOT SHOWN AS THE PROPOSED CULVERT LOCATION DOES NOT COINCIDE WITH EXISTING CULVERT LOCATION.

4. TEMPORARY TRAFFIC BARRIER WILL BE PAID FOR UNDER ITEM 621.2400, "TEMPORARY TRAFFIC BARRIER". REMOVING AND RESETTING TEMPORARY TRAFFIC BARRIER WILL BE PAID FOR UNDER ITEM 621.0200, "REMOVE AND RESET TEMPORARY TRAFFIC BARRIER".

**PROJECT PHASE 1A**

1. INSTALL TEMPORARY TRAFFIC CONTROL SIGNING AND BARRIER TO SHIFT US ROUTE 7 TO THE EAST. PROVIDE TWO 3.3 METER TRAVEL LANES WITH 0.6 METER (MINIMUM) SHOULDERS UTILIZING THE EXISTING GUARDRAIL TO THE EAST AND TEMPORARY BRACED BARRIER TO THE WEST. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVES.
2. INSTALL TEMPORARY EARTH SUPPORT.
3. REMOVE THE EXISTING BOX CULVERT TO THE LIMITS OF THE TEMPORARY EARTH SUPPORT.
4. INSTALL WESTERN (DOWNSTREAM) PORTION OF THE CONCRETE BOX CULVERT, CUT-OFF WALL, HEADWALL AND WINGWALLS. APPLY SHEET MEMBRANE WATERPROOFING, BACKFILL, AND INSTALL STONE AT THE DOWNSTREAM APRON. CONSTRUCT TEMPORARY ROADWAY AND ROADWAY SLOPES AS REQUIRED FOR PHASE 1B TRAFFIC. STABILIZE ALL DISTURBED AREAS.
5. INSTALL NEW LINE OF TEMPORARY EARTH SUPPORT TO ACCOMMODATE PHASE 1B CONSTRUCTION.



**PHASE 1A**  
(SHOWN ALONG CULVERT)  
50 SCALE

ADDENDUM	REVISION	DATE	DESCRIPTION	BY
4	1	4-10-26	REVISED NOTE REGARDING PAYMENT FOR TEMPORARY BARRIER	SRB

PROJECT NAME:	PITTSFORD-BRANDON
PROJECT NUMBER:	NH 019-3(494)
FILE NAME:	z02b198box_110.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	R. TRUDEAU
BOX CULVERT TCP PHASE 1A TYPICAL BR 110 SHEET	238 OF 529
PLOT DATE:	4/10/2026
DRAWN BY:	M. SMITH
CHECKED BY:	S. BEAUMONT



**GENERAL NOTES:**

1. CULVERT DIMENSIONS ARE SHOWN ALONG CENTERLINE BOX CULVERT.
2. TEMPORARY EARTH SUPPORT REQUIRED TO ACCOMMODATE PHASED CONSTRUCTION WILL BE PAID FOR UNDER ITEM 240.0100003, "TEMPORARY TRAFFIC DIVERSION". THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR REVIEW DETAILED PLANS AND A SCHEDULE OF OPERATIONS FOR EACH PHASE OF TEMPORARY EARTH SUPPORT PER THE REQUIREMENTS OF SUBSECTION 208.06. PAYMENT FOR PREPARING PLANS AND SCHEDULE OF OPERATIONS, ALONG WITH ANY REVISIONS REQUIRED, WILL BE INCLUDED UNDER ITEM 240.0100003, "TEMPORARY TRAFFIC DIVERSION".

~~3. TEMPORARY TRAFFIC BARRIER WILL BE PAID FOR UNDER ITEM 621.2400, "TEMPORARY TRAFFIC BARRIER". REMOVE AND RESETTING TEMPORARY TRAFFIC BARRIER WILL BE PAID FOR UNDER ITEM 621.0200, "REMOVE AND RESET TEMPORARY TRAFFIC BARRIER".~~

TEMPORARY TRAFFIC BARRIER AND REMOVING AND RESETTING TRAFFIC BARRIER WILL CONSIDERED INCIDENTAL TO ITEM 240.0100003, "TEMPORARY TRAFFIC DIVERSION"

**GENERAL NOTES (CONT):**

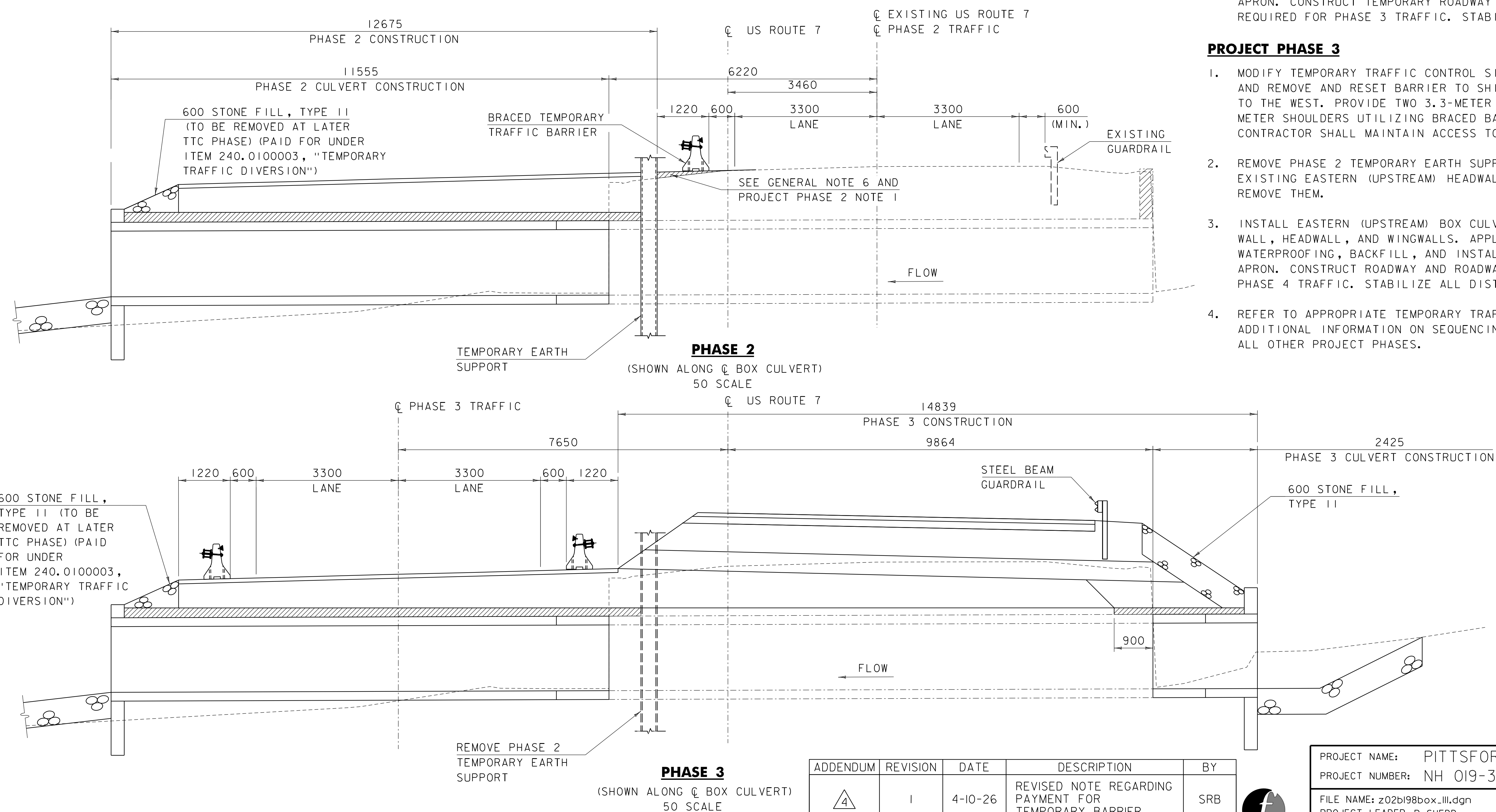
4. BARRIER SHALL BE DELINEATED ON THE TRAFFIC SIDE OF THE BARRIER. DELINEATION COLOR SHALL MATCH CORRESPONDING TEMPORARY PAVEMENT MARKINGS AND WILL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE BARRIER PAY ITEM.
5. BRACED TEMPORARY TRAFFIC BARRIER SHALL BE USED WHEN THE CREST OF THE EXCAVATED BACKSLOPES OR TEMPORARY EARTH SUPPORT IS OFFSET LESS THAN 1.22 METERS FROM THE INSIDE FACE OF THE CONCRETE BARRIER.
6. SHOULDER BACKUP SHALL BE PAID FOR UNDER ITEM 240.0100003, "TEMPORARY TRAFFIC DIVERSION". THE EXTENT OF SHOULDER BACKUP SHALL BE AS REQUIRED TO FACILITATE PLACEMENT OF THE TEMPORARY TRAFFIC BARRIERS FOR PHASE 2 CONSTRUCTION.

**PROJECT PHASE 2**

1. TRAFFIC SHALL BE MAINTAINED ON THE EXISTING US ROUTE 7 ALIGNMENT. INSTALL TEMPORARY TRAFFIC CONTROL SIGNING, CONSTRUCT GRANULAR BORROW SHOULDER BACKUP, AND INSTALL BARRIER ON NEW SHOULDER BACKUP. PROVIDE TWO 3.3-METER TRAVEL LANES WITH 0.6-METER (MINIMUM) SHOULDERS UTILIZING THE EXISTING GUARDRAIL TO THE EAST AND TEMPORARY BRACED BARRIER TO THE WEST. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVES.
2. TEMPORARILY RELOCATE STREAM.
3. INSTALL TEMPORARY EARTH SUPPORT.
4. REMOVE THE EXISTING WESTERN (DOWNSTREAM) HEADWALL AND WINGWALLS.
5. INSTALL WESTERN (DOWNSTREAM) BOX CULVERT EXTENSION, CUT-OFF WALL, HEADWALL, AND WINGWALLS. APPLY SHEET MEMBRANE WATERPROOFING, BACKFILL, AND INSTALL STONE AT THE DOWNSTREAM APRON. CONSTRUCT TEMPORARY ROADWAY AND ROADWAY SLOPES AS REQUIRED FOR PHASE 3 TRAFFIC. STABILIZE ALL DISTURBED AREAS.

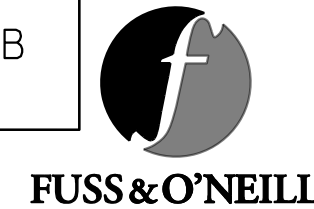
**PROJECT PHASE 3**

1. MODIFY TEMPORARY TRAFFIC CONTROL SIGNING AS NECESSARY AND REMOVE AND RESET BARRIER TO SHIFT US ROUTE 7 TRAFFIC TO THE WEST. PROVIDE TWO 3.3-METER TRAVEL LANES WITH 0.6-METER SHOULDERS UTILIZING BRACED BARRIER ON EACH SIDE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING DRIVES.
2. REMOVE PHASE 2 TEMPORARY EARTH SUPPORT, EXCAVATE BEHIND EXISTING EASTERN (UPSTREAM) HEADWALL AND WINGWALLS, AND REMOVE THEM.
3. INSTALL EASTERN (UPSTREAM) BOX CULVERT EXTENSION, CUT-OFF WALL, HEADWALL, AND WINGWALLS. APPLY SHEET MEMBRANE WATERPROOFING, BACKFILL, AND INSTALL STONE AT THE UPSTREAM APRON. CONSTRUCT ROADWAY AND ROADWAY SLOPES AS REQUIRED FOR PHASE 4 TRAFFIC. STABILIZE ALL DISTURBED AREAS.
4. REFER TO APPROPRIATE TEMPORARY TRAFFIC CONTROL SHEETS FOR ADDITIONAL INFORMATION ON SEQUENCING AND CONSTRUCTION OF ALL OTHER PROJECT PHASES.

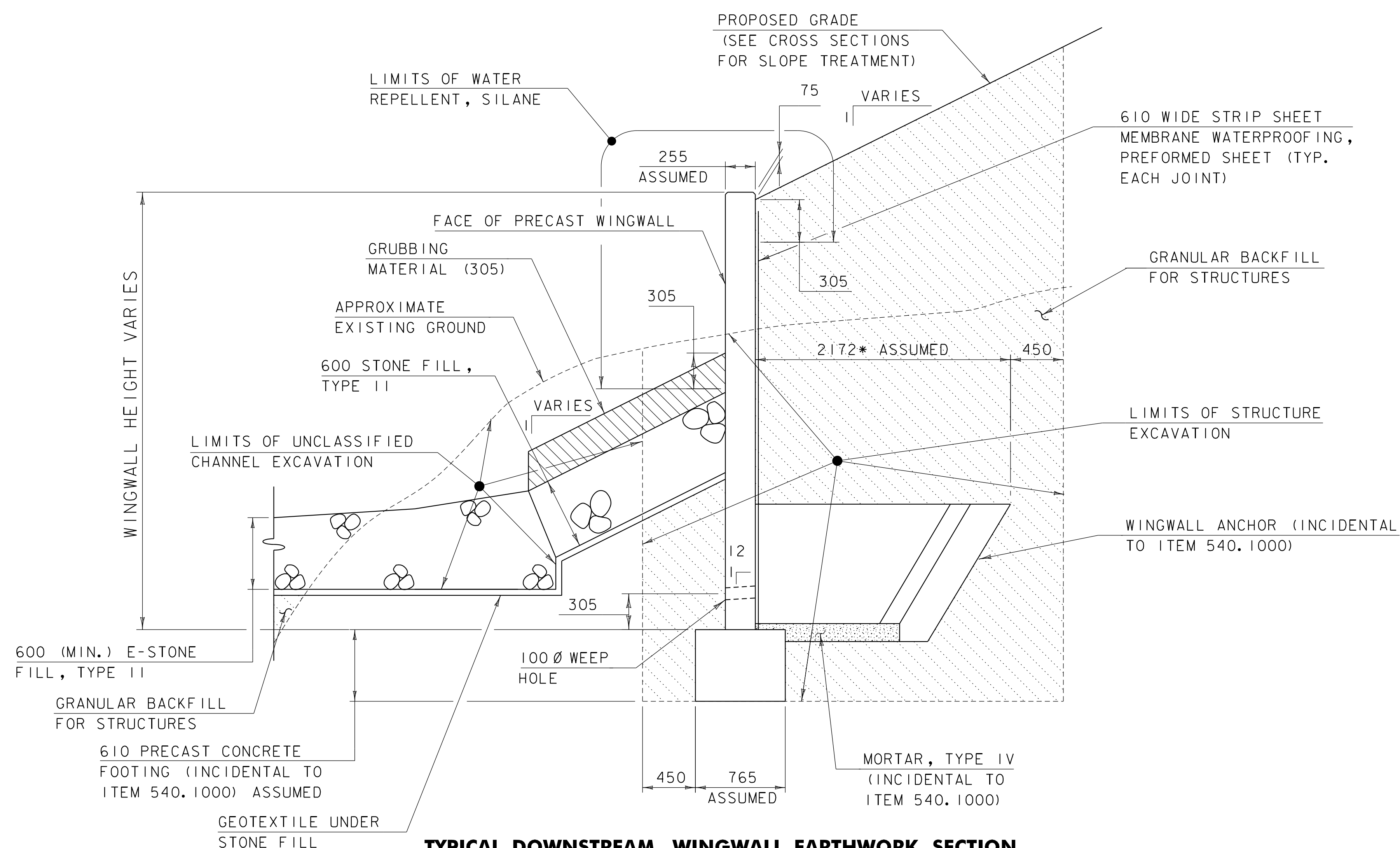


ADDENDUM	REVISION	DATE	DESCRIPTION	BY
A	1	4-10-26	REVISED NOTE REGARDING PAYMENT FOR TEMPORARY BARRIER	SRB

PROJECT NAME: PITTSFORD-BRANDON  
 PROJECT NUMBER: NH 019-3(494)  
 FILE NAME: z02b198box\_III.dgn  
 PROJECT LEADER: P. SHEDD  
 DESIGNED BY: R. TRUDEAU  
 PLOT DATE: 4/10/2026  
 DRAWN BY: M. SMITH  
 CHECKED BY: S. BEAUMONT  
 PHASE 2 AND 3 CONSTRUCTION SHEET BR 111 SHEET 256 OF 529

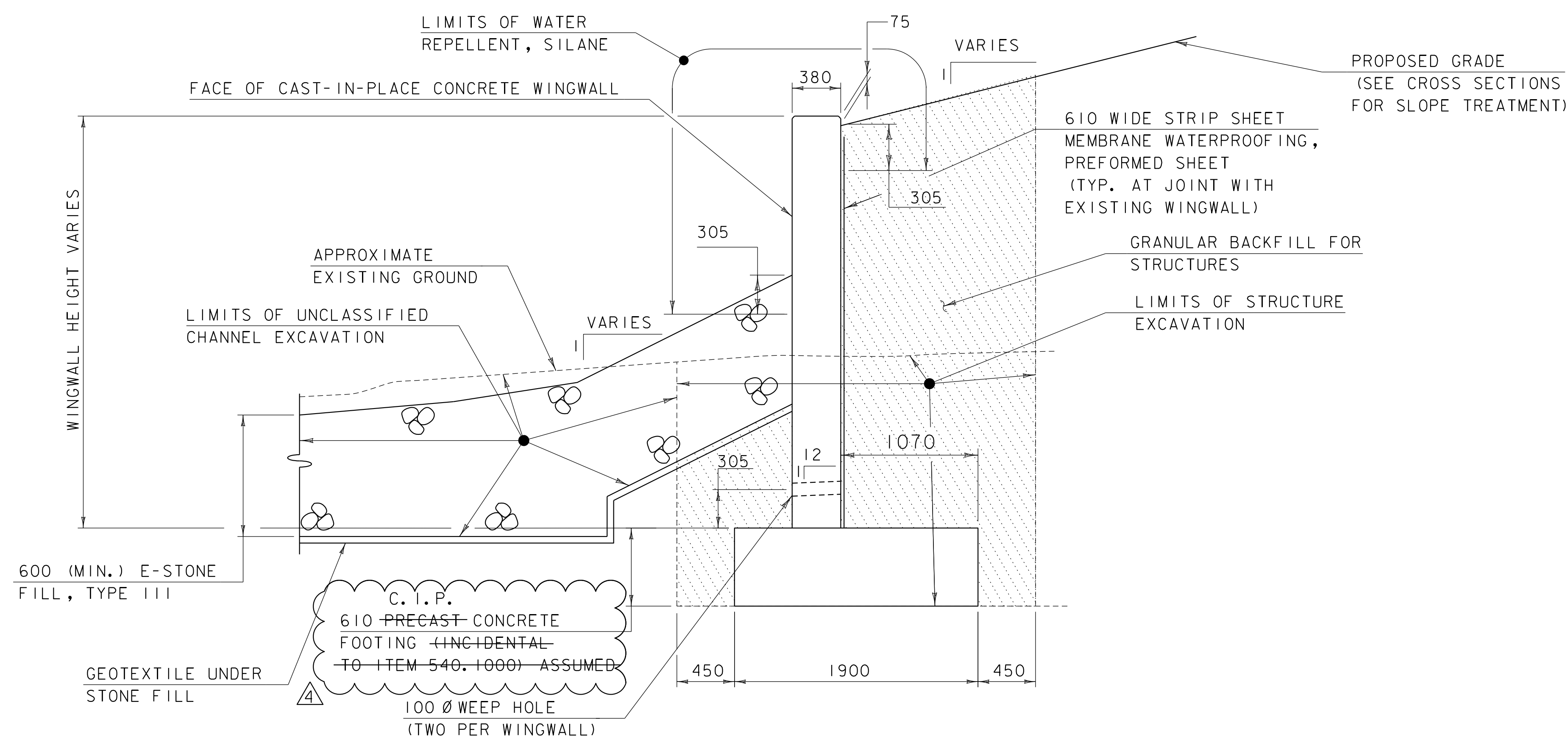


ADDENDUM	REVISION	DATE	DESCRIPTION	BY
△4	1	4-10-26	BR#112 UPSTREAM WINGWALL EXTENSION REVISIONS	SRB



**TYPICAL DOWNSTREAM WINGWALL EARTHWORK SECTION**

25 SCALE



**TYPICAL UPSTREAM WINGWALL EARTHWORK SECTION**

25 SCALE

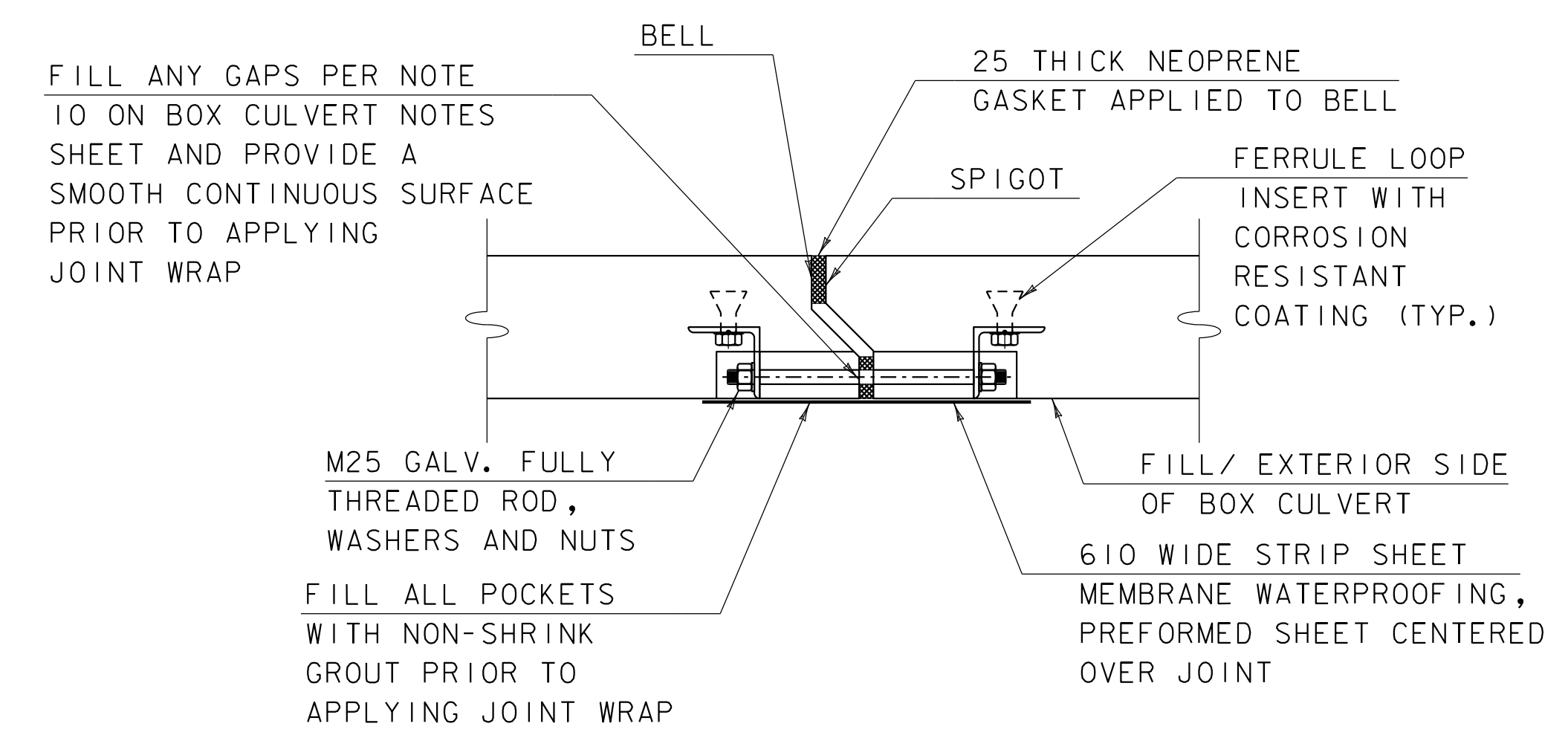
**NOTES**

1. THE LUMP SUM COST FOR ITEM 540.1000, "PRECAST CONCRETE STRUCTURE (BR 112) (1220 X 1525 X 11380 OUTLET EXTENSION)" SHALL INCLUDE THE DESIGN, FABRICATION, DELIVERY, HANDLING, REPAIR, AND CONSTRUCTION OF ALL THE WINGWALL ELEMENTS.
2. THE WINGWALL SYSTEM, LAYOUT, AND DIMENSIONS WERE DETERMINED USING ASSUMED DIMENSIONS AS SPECIFIED IN THE PLANS. THE CONTRACTOR MAY SELECT ANY WINGWALL SYSTEM FROM THE VTRANS APPROVED PRODUCTS LIST PROVIDED THE LINE AND GRADE OF THE WINGWALL SYSTEM FROM THE VTRANS APPROVED PRODUCTS LIST PROVIDED THE LINE AND GRADE OF THE WINGWALL SYSTEM ARE COSISTENT WITH THE PLANS. ANY DRAINAGE SYSTEM RECOMMENDED BY THE FABRICATOR OF THE SELECTED WINGWALL SYSTEM SHALL BE PROVIDED.
3. SEE PRECAST CONCRETE BRIDGE SYSTEM NOTES ON BOX CULVERT NOTES SHEET FOR ADDITIONAL INFORMATION.
4. CONCRETE FOR THE UPSTREAM CAST-IN-PLACE CONCRETE WINGWALL EXTENSIONS SHALL BE PAID FOR UNDER ITEM 541.2200, "CONCRETE, CLASS B".

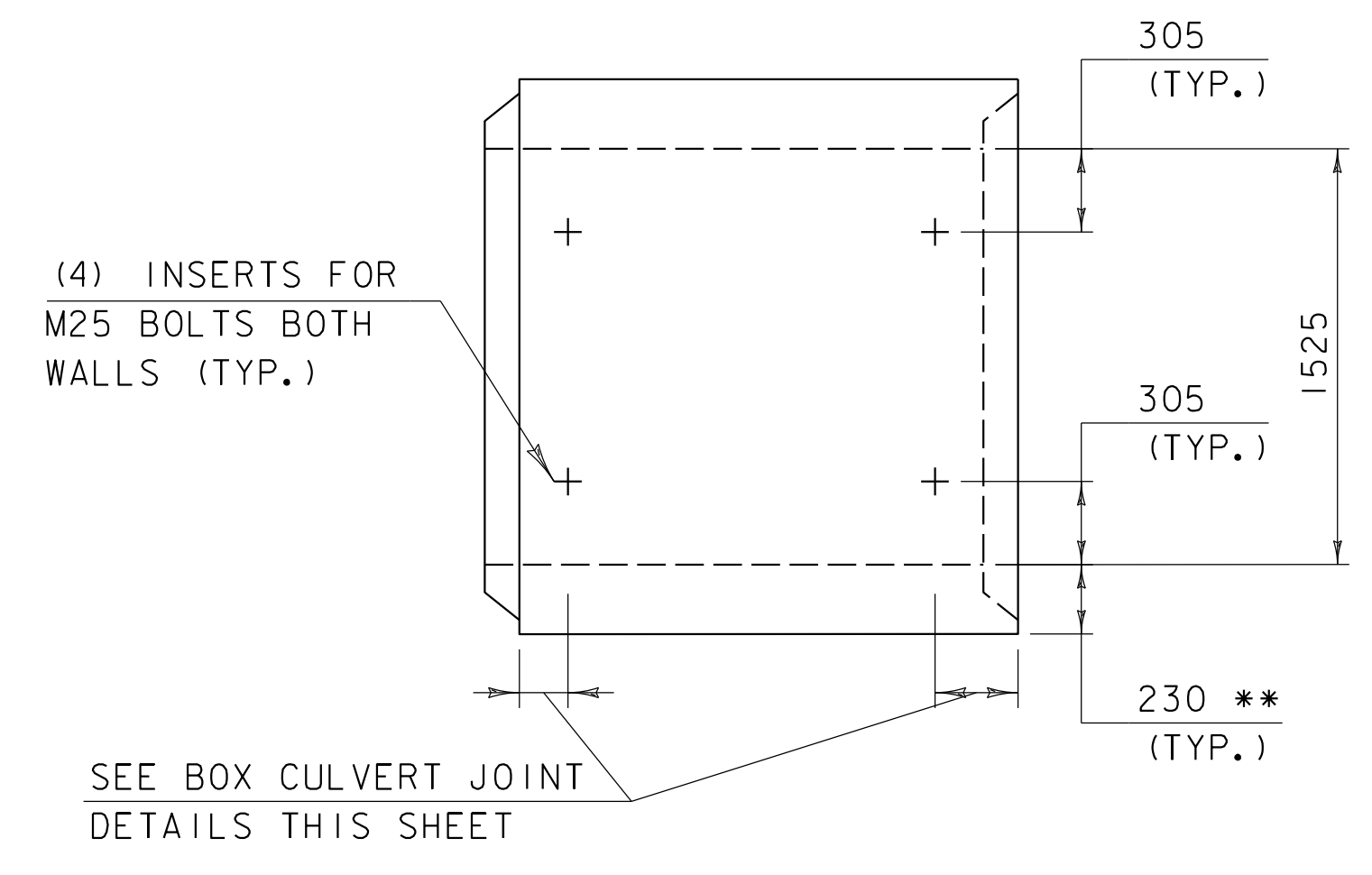


PROJECT NAME: PITTSFORD-BRANDON  
PROJECT NUMBER: NH 019-3(494)

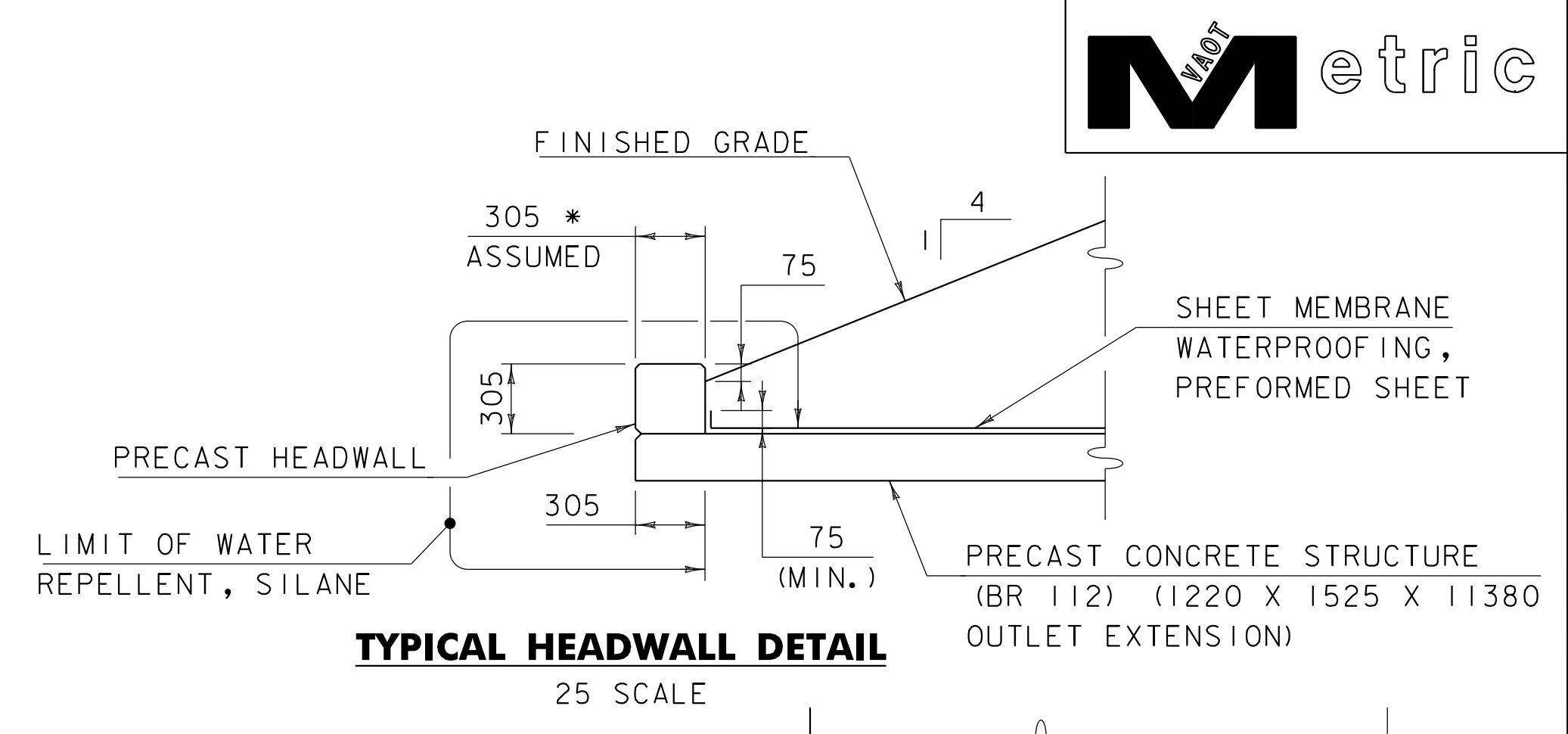
FILE NAME: z02b198box\_112.dgn  
PROJECT LEADER: P. SHEDD  
DESIGNED BY: R. TRUDEAU  
PLOT DATE: 4/10/2026  
DRAWN BY: M. SMITH  
CHECKED BY: S. BEAUMONT  
TYPICAL EARTHWORK SECTIONS SHEET 2 BR 112 SHEET 265 OF 529



**BOX CULVERT JOINT DETAIL**  
10 SCALE

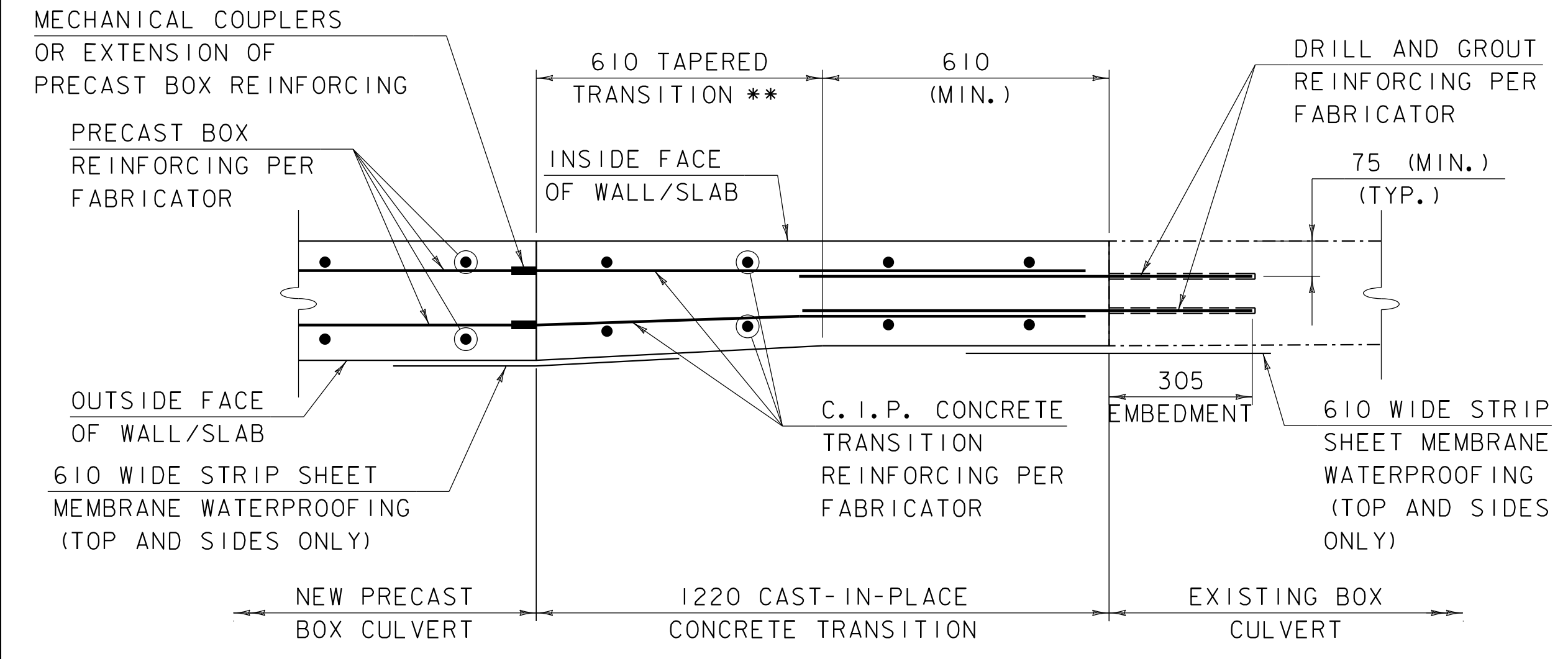


**FERRULE LOOP INSERT LAYOUT**  
25 SCALE



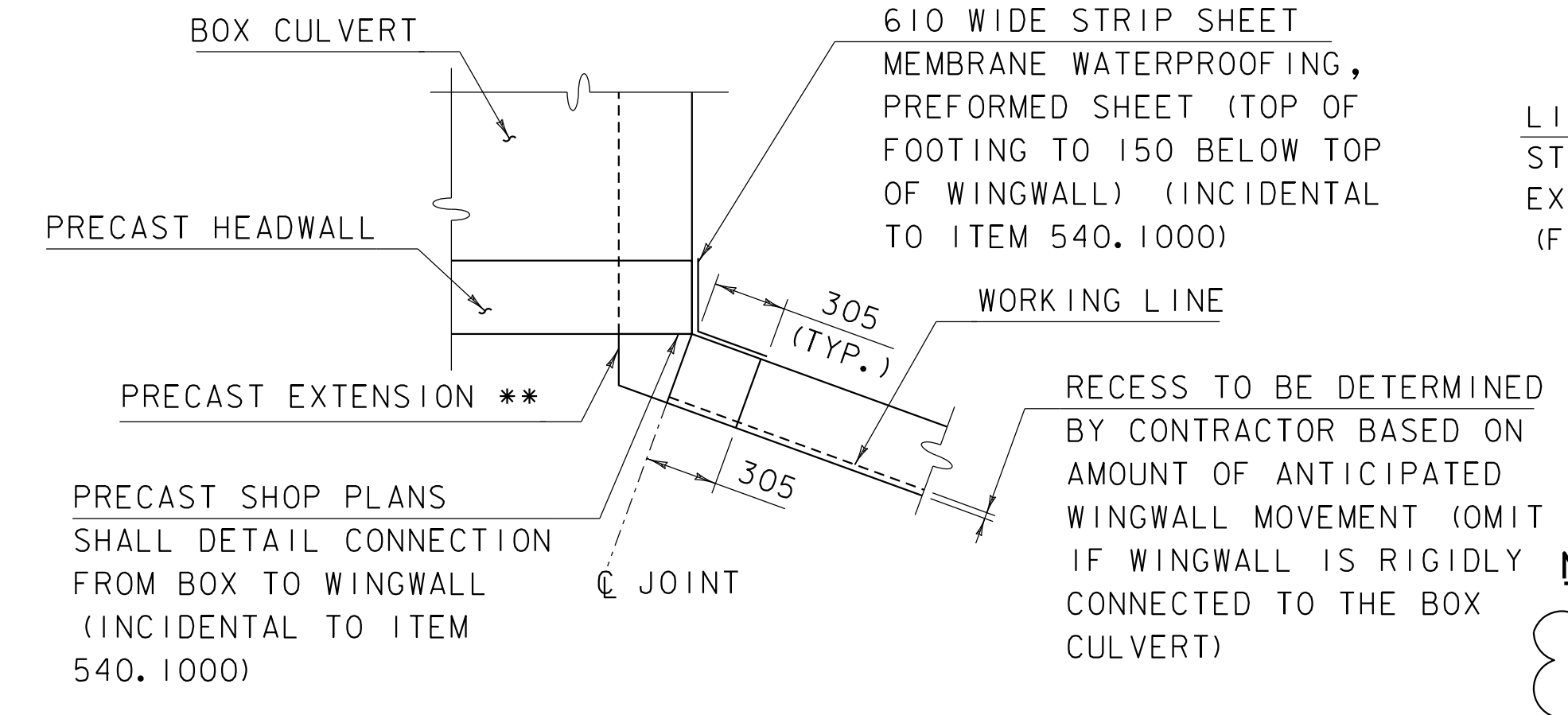
**TYPICAL HEADWALL DETAIL**  
25 SCALE

**NOTE:**  
THE JOINT PROVIDED SHOWS ONE METHOD OF PROVIDING WATERTIGHT JOINTS BETWEEN BOX SECTIONS. AN ALTERNATE JOINT DETAIL MAY BE PROVIDED FOR REVIEW ON THE SHOP PLANS. SEE NOTE 15 ON BOX CULVERT NOTES SHEET.



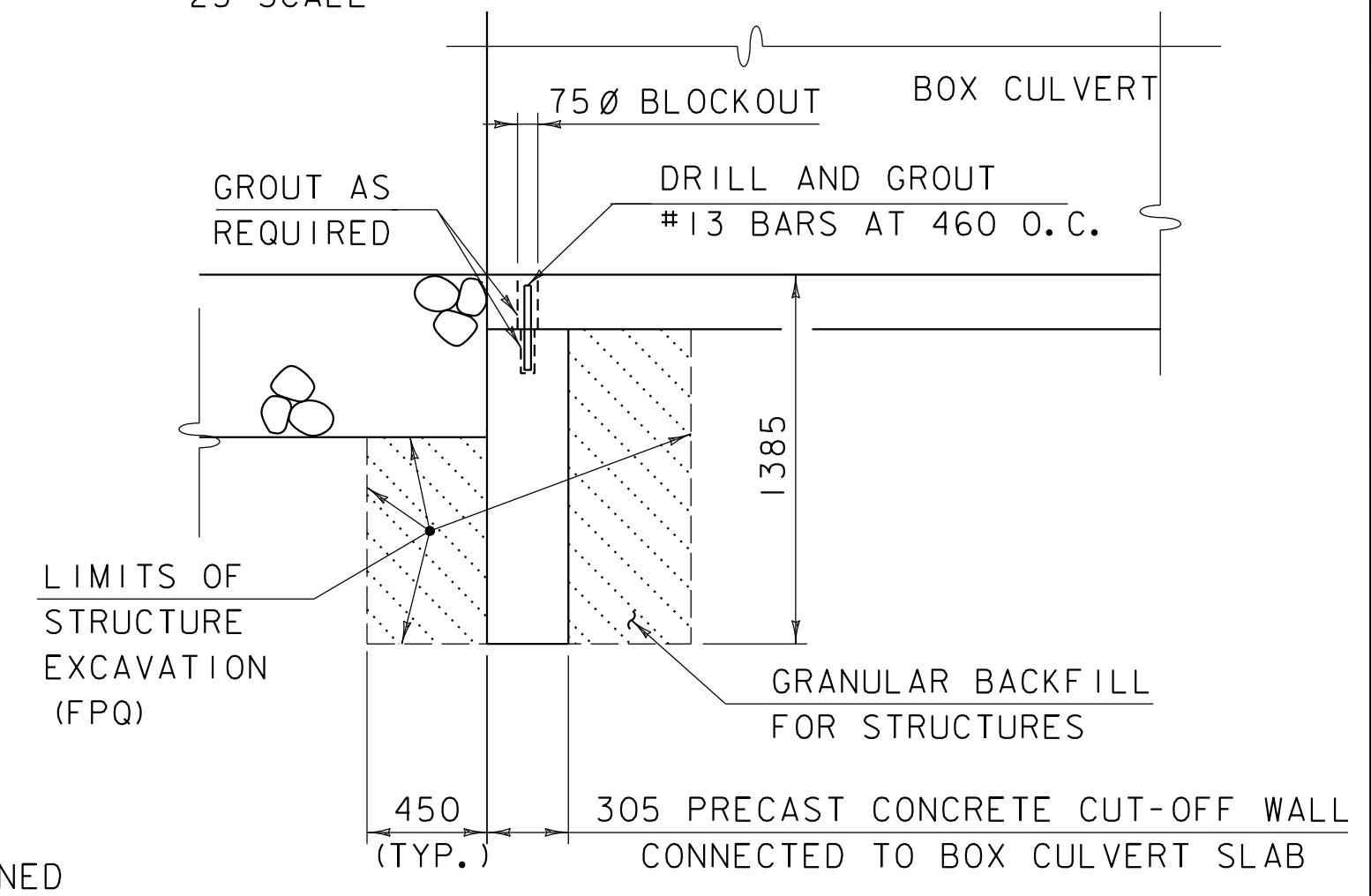
**CONNECTION BETWEEN EXISTING CULVERT SECTION AND PROPOSED CULVERT EXTENSION**  
10 SCALE

\*\* THE PROPOSED PRECAST SECTION THICKNESS SHALL BE DETERMINED BY THE FABRICATOR. A TAPER IS REQUIRED AS SHOWN IF THERE IS A DIFFERENCE IN THE PROPOSED AND EXISTING SECTION THICKNESS.



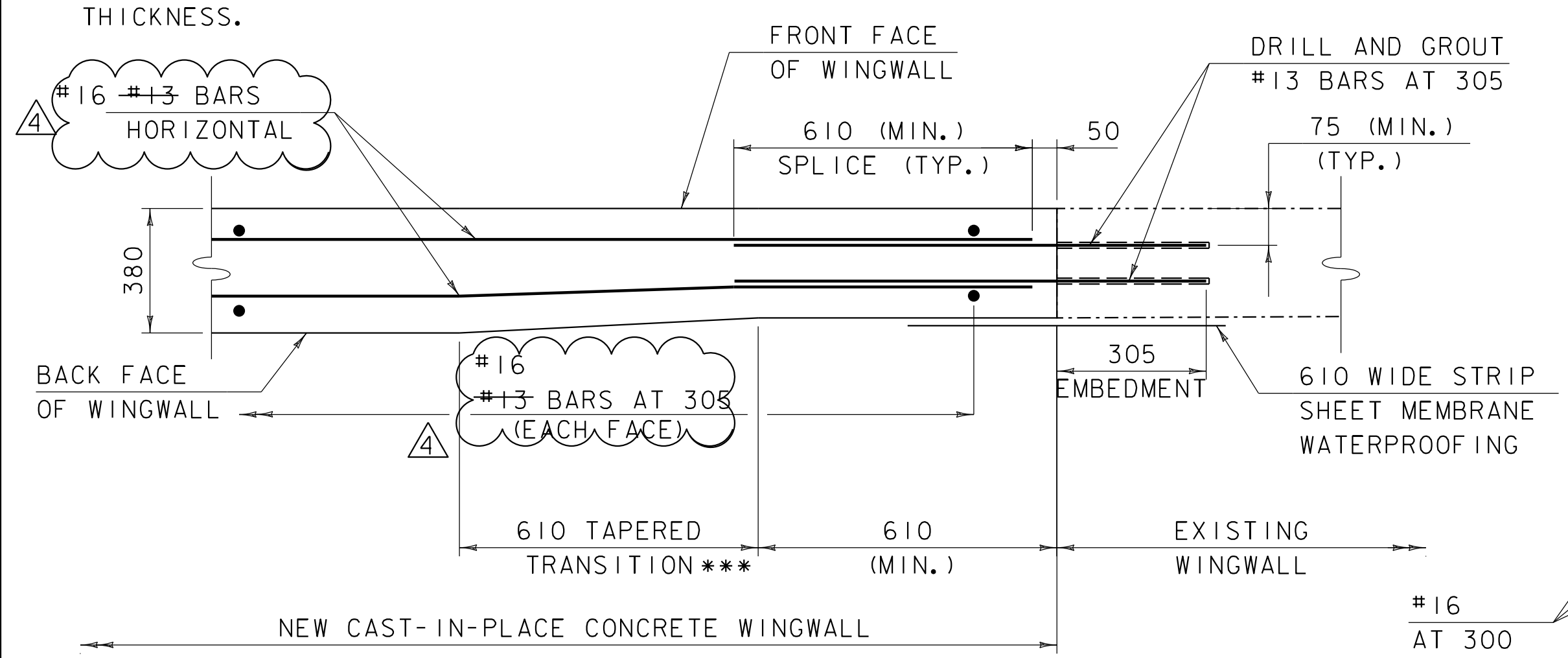
**PRECAST WINGWALL JOINT DETAIL**  
25 SCALE

**NOTE:**  
THE WINGWALL JOINT DETAIL SHOWS ONE METHOD OF CONNECTING THE WINGWALL TO THE BOX. AN ALTERNATE JOINT LAYOUT MAY BE PROVIDED FOR REVIEW ON THE SHOP PLANS. SEE NOTE 16 ON BOX CULVERT NOTES SHEET.



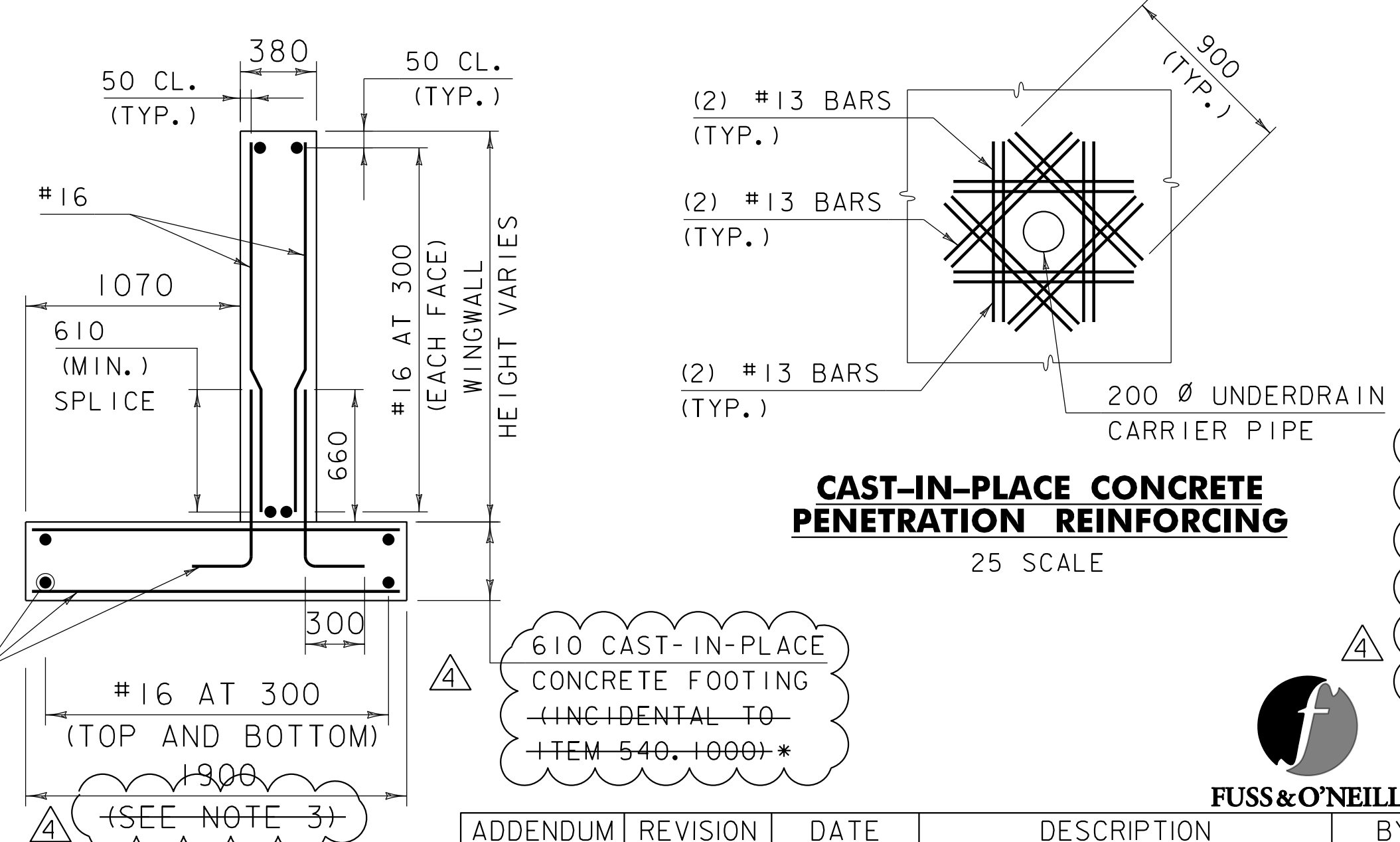
**DOWNSTREAM CUT-OFF WALL DETAIL**  
25 SCALE

**NOTES**  
1. ALL HARDWARE AND MATERIAL SHOWN FOR DOWNSTREAM PRECAST CONCRETE CULVERT EXTENSION AND PRECAST CONCRETE WINGWALLS ARE INCIDENTAL TO ITEM 540.1000.



**CONNECTION BETWEEN EXISTING WINGWALL AND PROPOSED WINGWALL EXTENSION**  
10 SCALE

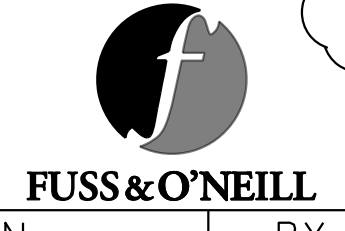
\*\*\* A TAPER IS REQUIRED AS SHOWN IF THERE IS A DIFFERENCE IN THE PROPOSED WINGWALL THICKNESS AND EXISTING WINGWALL THICKNESS.



**TYPICAL CAST-IN-PLACE CONCRETE WINGWALL SECTION**  
25 SCALE

**CAST-IN-PLACE CONCRETE PENETRATION REINFORCING**  
25 SCALE

- THE BOTTOM OF EXISTING WINGWALL FOOTING ELEVATION IS UNKNOWN. THE PROPOSED BOTTOM OF WINGWALL FOOTING SHALL MATCH THE EXISTING BOTTOM OF FOOTING, AND THE HEIGHT OF THE PROPOSED WINGWALL SHALL BE ADJUSTED. IF THE ACTUAL HEIGHT OF THE WINGWALL IS GREATER THAN THE HEIGHT SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO UPDATE THE WINGWALL DESIGN, DIMENSIONS, AND REINFORCEMENT. NO CONNECTION IS REQUIRED BETWEEN THE EXISTING FOOTING AND PROPOSED FOOTING.
- SEE PRECAST CONCRETE BRIDGE SYSTEM NOTES ON BOX CULVERT NOTES SHEET.
- SEE UPSTREAM WINGWALL ELEVATION ON CULVERT DETAIL SHEET 2 BR 112 FOR CAST-IN-PLACE CONCRETE WINGWALL EXTENSION MASONRY.
- CONCRETE FOR THE UPSTREAM CAST-IN-PLACE WINGWALL EXTENSIONS SHALL BE PAID FOR UNDER ITEM 541.2200, "CONCRETE, CLASS B". STEEL REINFORCEMENT FOR THE UPSTREAM CAST-IN-PLACE CONCRETE WINGWALL EXTENSIONS SHALL BE PAID FOR UNDER ITEM 507.1100, "REINFORCING STEEL, LEVEL 1 (BLACK)". DRILLING AND GROUTING INTO THE EXISTING CULVERT AT THE UPSTREAM WINGWALL EXTENSION SHALL BE PAID FOR UNDER ITEM 507.1600, "DRILLING AND GROUTING DOWELS".




ADDENDUM	REVISION	DATE	DESCRIPTION	BY
4	1	4-10-26	BR#112 UPSTREAM WINGWALL EXTENSION REVISIONS	SRB

PROJECT NAME: PITTSFORD-BRANDON  
PROJECT NUMBER: NH 019-3(494)  
FILE NAME: z02b198box\_112.dgn  
PROJECT LEADER: P. SHEDD  
DESIGNED BY: R. TRUDEAU  
CULVERT DETAIL SHEET 1 BR 112  
PLOT DATE: 4/10/2026  
DRAWN BY: M. SMITH  
CHECKED BY: J. FRENCH  
SHEET 270 OF 529

**INTRODUCTION**

1. THE FOLLOWING TRAFFIC CONTROL INFORMATION IS INTENDED TO BE A GENERAL OUTLINE FOR HOW THE WORK COULD PROCEED. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR APPROVAL BY THE PROJECT MANAGER, PER SECTION 105, 21 DAYS PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.1100 TRAFFIC CONTROL, ALL-INCLUSIVE. THE TRAFFIC CONTROL PLAN SHALL BE IN COMPLIANCE WITH VTRANS STANDARDS AND THE 11TH EDITION OF THE MUTCD. WHERE CONFLICTS EXIST, THE MUTCD SHALL GOVERN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPECIFIC DETAILS TO ADDRESS SPECIFIC SITUATIONS. THIS RESPONSIBILITY INCLUDES PROVIDING A PLAN DETAILING THE USE AND PLACEMENT OF SIGNS, CHANNELING DEVICES, ARROW PANELS, FLAGGERS AND UNIFORMED TRAFFIC OFFICERS (UTO'S) DURING LANE CLOSURES. ALL TRAFFIC CONTROL DETAILS MUST BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE MUTCD AND VAOT STANDARDS T-1, T-10, T-11, T-17, T-24, T-28, T-29, T-30, T-31, T-35 AND T-36. WHERE CONFLICTS EXIST, THE MUTCD SHALL GOVERN.

2. TWO-WAY TRAFFIC IS TO BE MAINTAINED UNLESS OTHERWISE APPROVED BY THE ENGINEER. IF ALTERNATING ONE-WAY TRAFFIC IS REQUIRED FOR CONSTRUCTION ACTIVITIES, THE MAXIMUM STOP LINE TO STOP LINE (FLAGGER TO FLAGGER) DISTANCE FOR ANY SINGLE LANE CONDITION SHALL BE 225 METERS (APPROXIMATELY 750 FEET). FINAL PAVING WILL BE EXEMPT FROM THIS 225 METER CONDITION. 

3. TRAFFIC TRAVELING ON UNPAVED SURFACES HAS THE POTENTIAL TO CAUSE SIGNIFICANT DELAYS DURING PEAK HOURS. ANY DISTURBED PAVED SURFACES OPEN TO TRAFFIC SHALL BE PAVED WITHIN 72 HOURS OF INITIAL DISTURBANCE. THE ONLY LOCATIONS ANTICIPATED TO BE DISTURBED AND OPEN TO TRAFFIC INCLUDE THE US ROUTE 7 APPROACH WORK (PHASE 3) AT THE ENDS OF THE PROJECT AND CULVERT TRENCHES THAT CROSS THE ROAD. COSTS ASSOCIATED WITH PAVING TEMPORARY PAVEMENT IS CONSIDERED INCIDENTAL TO ITEM 641.1100 - TRAFFIC CONTROL, ALL-INCLUSIVE.

**TRAFFIC CONTROL NOTES**

4. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THESE PROJECT PLANS, APPLICABLE VAOT STANDARD DRAWINGS, AND THE 11TH EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), OR AS DIRECTED BY THE ENGINEER.

5. SIGNS SHALL ONLY BE VISIBLE TO MOTORISTS AT THE TIMES WHEN THE MESSAGE IS PERTINENT, I.E. A "FLAGGER AHEAD" SIGN SHALL ONLY BE VISIBLE TO MOTORISTS WHEN THE FLAGGER IS ACTUALLY PRESENT PERFORMING THEIR DUTIES.

6. A MINIMUM LANE WIDTH OF 3.3m SHALL BE MAINTAINED.

7. WHEN MILLED BITUMINOUS PAVEMENT IS OPEN TO TRAFFIC, A "MOTORCYCLES USE CAUTION" SIGN, AS PER VAOT STANDARDS T-17 AND T-30, SHALL BE PROVIDED.

8. THE CONTRACTOR SHOULD LEAVE NO LONGITUDINAL DROP-OFFS DURING THE OVERNIGHT HOURS. THEREFORE, THE FULL ROADWAY WIDTH SHOULD BE CLOSED PLANNED OR PAVED DURING THE DAILY WORK PERIOD. WHEN NECESSARY, DROP-OFF PROTECTION IN THESE AREAS SHALL CONFORM TO VAOT STANDARDS T-35 AND T-36.

9. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES OR COORDINATE EMERGENCY ROUTES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS AND COORDINATE MAJOR WORK ON COMMERCIAL OR MUNICIPAL ACCESSES WITH THE OWNER AT LEAST ONE WEEK PRIOR TO STARTING THE WORK. ALL COMMERCIAL AND MUNICIPAL ACCESSES SHALL BE KEPT FREE OF WORK AND TRAFFIC CONTROLLED BY UNIFORMED TRAFFIC OFFICERS OR FLAGGERS AS REQUIRED BY THE ENGINEER. ACCESS TO ALL PROPERTIES MAY BE RESTRICTED FOR A SHORT DURATION (A FEW HOURS). THIS WORK WILL BE COORDINATED WITH THE PROPERTY OWNERS.

10. ACCOMODATIONS FOR POSTAL DELIVERS, NEWSPAPER ROUTES, TRASH SERVICES, AND/OR OTHER DELIVERY SERVICES INTERRUPTED BY THE PROJECT OR DETOUR SHOULD BE COMMUNICATED WITH THE PROPER CONTACTS.

11. TRAFFIC SHALL NOT BE CHANGED FROM ONE TRAFFIC PATTERN TO THE NEXT TRAFFIC PATTERN UNTIL ALL TEMPORARY MARKINGS AND SIGNING WORK ARE COMPLETED. ANY CONFLICTING MARKINGS SHALL BE REMOVED. REMOVAL OF MARKINGS WILL BE CONSIDERED INCIDENTAL TO ITEM 641.1100 TRAFFIC CONTROL, ALL-INCLUSIVE.

12. WHEN SCHOOL IS IN SESSION; SCHOOL BUS STOP AND PEDESTRIAN ACCOMODATIONS ARE REQUIRED. BUS STOP AND PEDESTRIAN LOCATIONS SHALL BE COORDINATED WITH THE LOCAL SCHOOL TRANSPORTATION COORDINATOR.

13. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED, THE PAYMENT FOR WHICH WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.1100 TRAFFIC CONTROL, ALL-INCLUSIVE. SIGN COVERING SHALL NOT DAMAGE THE RETRO-REFLECTIVITY OF THE SIGN FACE AND THE SIGN COVER SHALL NOT BE ALLOWED TO DETERIORATE FOR THE DURATION THAT THE SIGN NEEDS COVERING.

14. ALL REASONABLE EFFORTS SHALL BE MADE TO ACCOMMODATE PEDESTRIAN TRAVEL AT ALL TIMES. THIS CAN INCLUDE, BUT IS NOT LIMITED TO A DEDICATED PEDESTRIAN ESCORT, SIGNAGE AND CONED OFF WALKING AREAS WITHIN CLOSED LANES. FLAGGERS SHALL NOT BE USED AS PEDESTRIAN ESCORTS. PAYMENT WILL BE INCLUDED IN THE UNIT PRICE FOR ITEM 641.1100 TRAFFIC CONTROL, ALL-INCLUSIVE.

15. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) WILL BE PROVIDED FOR USE ALONG THIS PROJECT AND ARE TO BE USED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL POSITION PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) WARNING MOTORISTS OF THE EXPECTED ROADWAY CONDITIONS AHEAD. THE MESSAGE TO BE DISPLAYED, AND THEIR PROPOSED LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER IN ADVANCE FOR APPROVAL. POSSIBLE LOCATIONS INCLUDE NORTH OF THE INTERSECTION OF US ROUTE 7 AND KENDALL HILL ROAD AND APPROXIMATELY TWO MILES NORTH OF THE PROJECT LIMITS NEAR MCCONNELL ROAD. THE PCMS SHOULD BE RELOCATED AS DETERMINED BY THE ENGINEER TO PROVIDE WORK ZONE TRAVEL INFORMATION THAT IS OTHERWISE DIFFICULT TO CONVEY WITH STATIC SIGNS. THE COST OF PROVIDING THESE MESSAGE SIGNS AND THEIR RELOCATION IF NECESSARY SHALL BE PAID UNDER ITEM 641.1500, PORTABLE CHANGEABLE MESSAGE SIGN.

16. THE BID PRICE FOR ITEM 641.1100 TRAFFIC CONTROL, ALL-INCLUSIVE, SHALL INCLUDE, BUT IS NOT LIMITED TO, ALL OF THE FOLLOWING, AS NEEDED PER SECTION 641: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, TEMPORARY TRAFFIC BARRIERS, ENERGY ABSORPTION ATTENUATORS, TRAFFIC BARRIER DELINEATORS, TEMPORARY GUARDRAIL, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN THE MUTCD AND VAOT STANDARDS. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY: 630.1000 UNIFORMED TRAFFIC OFFICER, 630.1500 - FLAGGERS.

17. THE BID PRICE FOR ITEM 240.0100002 TEMPORARY ROADWAY WIDENING, SHALL INCLUDE, BUT IS NOT LIMITED TO, ALL OF THE FOLLOWING PER THE SPECIAL SPECIFICATION: EXCAVATION FOR WIDENINGS OR DETOURS, TEMPORARY BORROW/FILL, SUBBASE OF DENSE GRADED CRUSHED STONE, TEMPORARY TOPSOIL, TEMPORARY TURF ESTABLISHMENT, TEMPORARY LINE STRIPING, REMOVAL OF LINE STRIPING, TEMPORARY PAVEMENT, ANY TEMPORARY STORMWATER PIPE EXTENSIONS, APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, TEMPORARY TRAFFIC BARRIERS, ENERGY ABSORPTION ATTENUATORS, TRAFFIC BARRIER DELINEATORS AND TEMPORARY GUARDRAIL.


18. ITEM 240.0100002, TEMPORARY ROADWAY WIDENING, WILL BE PAID ON A PRORATED BASIS BY THE ENGINEER.

19. THE BID PRICE FOR ITEM 240.0100003 TEMPORARY ROADWAY DIVERSION, SHALL INCLUDE, BUT IS NOT LIMITED TO, ALL OF THE FOLLOWING PER THE SPECIAL SPECIFICATION: EXCAVATION FOR WIDENINGS OR DETOURS, TEMPORARY BORROW/FILL, SUBBASE OF DENSE GRADED CRUSHED STONE, TEMPORARY STONE FILL, TEMPORARY SHORING, TEMPORARY TOPSOIL, TEMPORARY TURF ESTABLISHMENT, TEMPORARY LINE STRIPING, REMOVAL OF LINE STRIPING, TEMPORARY PAVEMENT, ANY TEMPORARY STORMWATER PIPE EXTENSIONS, APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, TEMPORARY TRAFFIC BARRIERS, ENERGY ABSORPTION ATTENUATORS, TRAFFIC BARRIER DELINEATORS AND TEMPORARY GUARDRAIL.

20. TEMPORARY PAVEMENT FOR DETOURS, TEMPORARY WIDENINGS, OR OTHER ROADWAY TRENCHES WILL BE MAINTAINED BY THE CONTRACTOR. IF THE TEMPORARY PAVEMENT IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND REPAVE THE TEMPORARY PAVEMENT AS DIRECTED BY THE ENGINEER. COSTS FOR REMOVING AND REPAVING WILL BE AT THE CONTRACTOR'S EXPENSE.

21. THE 11TH EDITION OF THE MUTCD SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.

22. TRAFFIC BARRIER DELINEATORS SHALL BE INSTALLED ON ALL TEMPORARY TRAFFIC BARRIER AT A SPACING OF 6 METERS (20 FEET) BETWEEN DELINEATORS. THE COLOR OF THE DELINEATOR SHALL MATCH THE COLOR OF THE CORRESPONDING PAVEMENT MARKING ADJACENT TO THE BARRIER. THE COST OF THE DELINEATORS AND INSTALLATION AND MAINTENANCE OF THE DELINEATORS IS CONSIDERED INCIDENTAL TO ITEM 240.0100002 TEMPORARY ROADWAY WIDENING.

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
	1	04-10-2026	TRAFFIC CONTROL NOTES REVISED	DMY



23. ALL EXPOSED ENDS OF THE TEMPORARY CONCRETE BARRIER SHALL BE INSTALLED IN ACCORDANCE WITH AASHTO'S ROADSIDE DESIGN GUIDE BY FLARING THE BARRIER UNTIL THE END IN OUTSIDE THE CLEAR ZONE OR BY PROVIDING CRASH WORTHY END TREATMENTS (ATTENUATORS). ATTENUATORS SHALL BE IN ACCORDANCE WITH SECTION 621. A CUT SHEET AND FHWA COMPLIANCE LETTER FOR DEVICES USED SHALL BE PROVIDED IN THE TRAFFIC CONTROL PLAN.

24. ALL TEMPORARY CONCRETE BARRIERS SHALL BE JOINED TOGETHER TO FORM A CONTINUOUS LONGITUDINAL BARRIER THAT MEETS REQUIREMENTS FOR CRASHWORTHINESS. EACH SECTION SHOULD BE CONNECTED TO THE ADJACENT SECTION TO PROVIDE BARRIER CONTINUITY TO RESIST MOVEMENT, SNAGGING AND THE INSTABILITY OF IMPACTING VEHICLES.

25. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS. ALL VEGETATION THAT INTERFERES WITH THE VISIBILITY OF THE SIGNS SHALL BE REMOVED. SEE VAOT STANDARDS T-1, T-10, T-11 AND T-17 FOR ADDITIONAL SIGN PLACEMENT DETAILS.

26. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE 11TH EDITION MUTCD AND AS OUTLINED IN THE TRAFFIC CONTROL PLANS.

27. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS. RETROREFLECTIVE SHEETING SHALL BE AS NOTED ON VAOT STANDARD T-1 AND IN SUBSECTION 750.04

28. AS THE CONSTRUCTION OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 150 METERS (500 FEET) FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.

29. BARRELS, CONES, TEMPORARY GUARDRAIL OR TEMPORARY TRAFFIC BARRIER SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.

30. FOR ADDITIONAL TRAFFIC CONTROL GENERAL NOTES, SEE VAOT STANDARD T-1.

~~31. WHEN NIGHT WORK OCCURS, A LIGHTING PLAN THAT MEETS THE REQUIREMENTS OF NCHRP REPORT 476 IS REQUIRED AND SHALL INCLUDE THE FOLLOWING:~~

- LAYOUT SHOWING LOCATION OF LIGHT TOWERS, INCLUDING SPACING, LATERAL PLACEMENT AND MOUNTING HEIGHT, AND CLEARLY SHOW THE LOCATION OF ALL LIGHTS NECESSARY FOR ALL WORK TO BE DONE AT NIGHT.
- DESCRIPTION OF LIGHT TOWERS TO BE USED AND ELECTRICAL POWER SOURCE.
- SPECIFIC TECHNICAL DATA ON ALL LIGHTING EQUIPMENT, INCLUDING BRAND NAMES, MODEL NUMBERS, POWER RATING, AND PHOTOMETRIC DATA.
- DETAILS OF ANY HOODS, LOUVERS, SHIELDS, OR OTHER MEANS TO BE USED TO CONTROL GLARE.
- ATTACHMENT AND MOUNTING DETAILS FOR LIGHTING TO BE ATTACHED TO EQUIPMENT.
- LIGHTING CALCULATIONS CONFIRMING THAT THE ILLUMINATION REQUIREMENTS WILL BE MET BY THE LAYOUT.
- THE PLAN SHOULD CONSIDER HOW THOSE LIGHT SOURCES ARE GOING TO BE POWERED (SITE POWER FROM THE GRID OR FROM GENERATORS). IF THEY ARE LIGHT TOWERS, IS THERE A CLEAR PATH TO REACH THEM FOR REFUELING? CONSIDERATIONS SHOULD ALSO BE FACTORED IN FOR OVERLAPPING THE BEAMS FROM DIFFERENT LIGHT SOURCES TO ELIMINATE SHADOWING FROM THE WORKERS THEMSELVES.
- ALL COSTS INCLUDED WITH THE DESIGN AND IMPLEMENTATION OF THE LIGHTING SYSTEM WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 641.1100 TRAFFIC CONTROL, ALL INCLUSIVE.

32. THERE IS AN EXISTING DRINKING WATER WELL LOCATED NEAR STA. 14+360 LT. THE CONTRACTOR SHALL PROTECT THIS WELL AND ANY DAMAGE TO THE WELL WILL BE REPAIRED AT THE COSTS OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A WELL PROTECTION PLAN AT LEAST 14 DAYS PRIOR TO ANY FILL BEING PLACED IN THE AREA OF THE DRINKING WATER WELL.

33. BEFORE THE END OF EACH CONSTRUCTION SEASON, TRAFFIC SHALL BE MOVED BACK ONTO MAINLINE US ROUTE 7.

PROJECT NAME: PITTSFORD - BRANDON	
PROJECT NUMBER: NH 019-3 (494)	
PROJECT LEADER: G. GOYETTE	DRAWN BY: D. BARNES
DESIGNED BY: D. YOULEN	CHECKED BY: I. MAYNARD
FILE NAME: d02b198_4notes.ttc.dgn	PLOT DATE: 4/10/2026
TRAFFIC CONTROL NOTES	SHEET 429 OF 529



BARRIER FOR TEMPORARY TRAFFIC PROTECTION (TYP) - IF REQUIRED. SEE STANDARD T-35 (INCIDENTAL TO ITEM 240.0100003)

90 mm BITUMINOUS CONCRETE PAVEMENT (TYPE III) (INCIDENTAL TO ITEM 240.0100003)

450mm SUBBASE OF DENSE GRADED CRUSHED STONE (INCIDENTAL TO ITEM 240.0100003)

TEMPORARY FILL (INCIDENTAL TO ITEM 240.0100003)

TEMPORARY 50 mm TOPSOIL (INCIDENTAL TO ITEM 240.0100003)

MATCH EXISTING CROSS SLOPE  
EXISTING GROUND

TEMPORARY SHORING AROUND EXCAVATED AREA FOR PROPOSED PRECAST BOX CULVERT (INCIDENTAL TO ITEM 240.0100003)

PRECAST BOX CULVERT INSTALLED IN PHASE IB

**PHASE IC - CONSTRUCT REMAINING PORTION OF CULVERT**

NOT TO SCALE

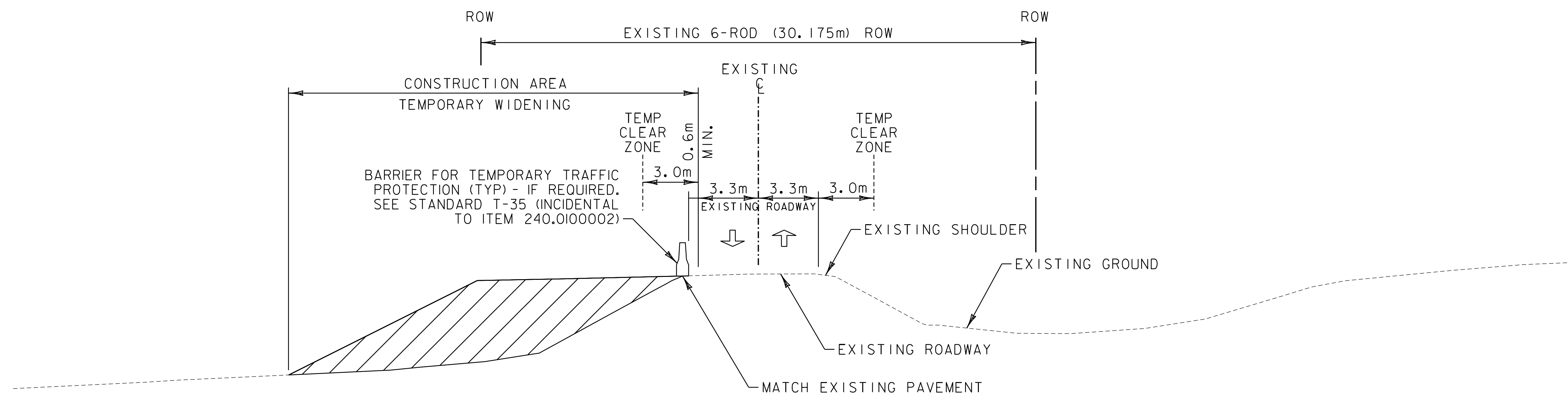
SEE PHASING SUMMARY SHEET 1 FOR MORE TRAFFIC CONTROL AND WORK ANTICIPATED TO BE COMPLETED.

CONSTRUCT PERMANENT EMBANKMENT

EXCAVATE AND CONSTRUCT PORTION OF PRECAST BOX CULVERT

REMOVE PHASE IA TEMPORARY EARTH SUPPORT AFTER BACKFILLING THE BOX CULVERT

NOTE: THE CONTRACTOR MAY PROPOSE TO USE OTHER MATERIALS IN PLACE OF THE DENSE GRADED CRUSHED STONE IN THE TEMPORARY WIDENING AND/OR DIVERSION. THE CONTRACTOR SHALL SUBMIT ANY SUBSTITUTIONS AS PART OF THE TEMPORARY ROADWAY SUBMITTALS AND BE APPROVED BY THE ENGINEER. ANY SUBSTITUTED MATERIAL WILL BE CONSIDERED INCIDENTAL TO ITEM 240.0100002 OR ITEM 240.0100003.



**PHASE 2 - CONSTRUCT US ROUTE 7 TEMPORARY WIDENING**

NOT TO SCALE

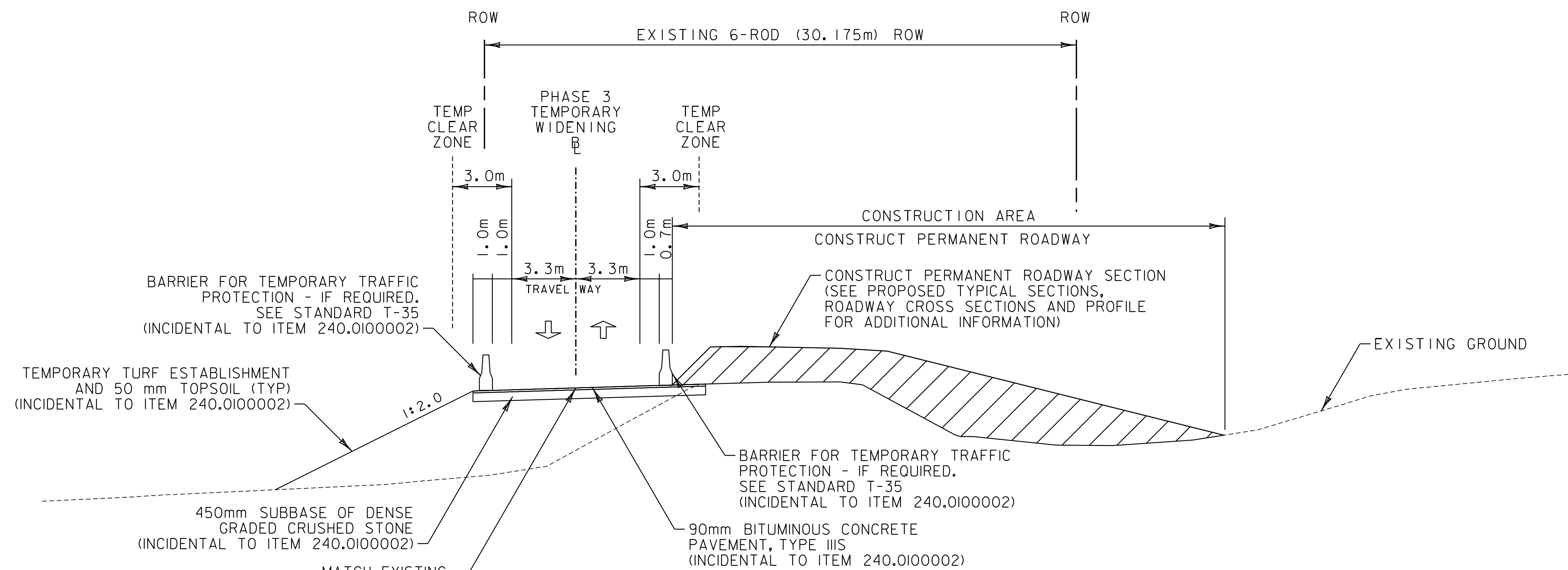
SEE PHASING SUMMARY SHEET 3 FOR MORE TRAFFIC CONTROL AND WORK ANTICIPATED TO BE COMPLETED

\* SEE ROADWAY TYPICAL SECTIONS, ROADWAY LAYOUTS, ROADWAY PROFILE AND ROADWAY CROSS SECTIONS FOR ADDITIONAL SECTION INFORMATION

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
A	1	04-10-2026	NOTE ADDED	DMY



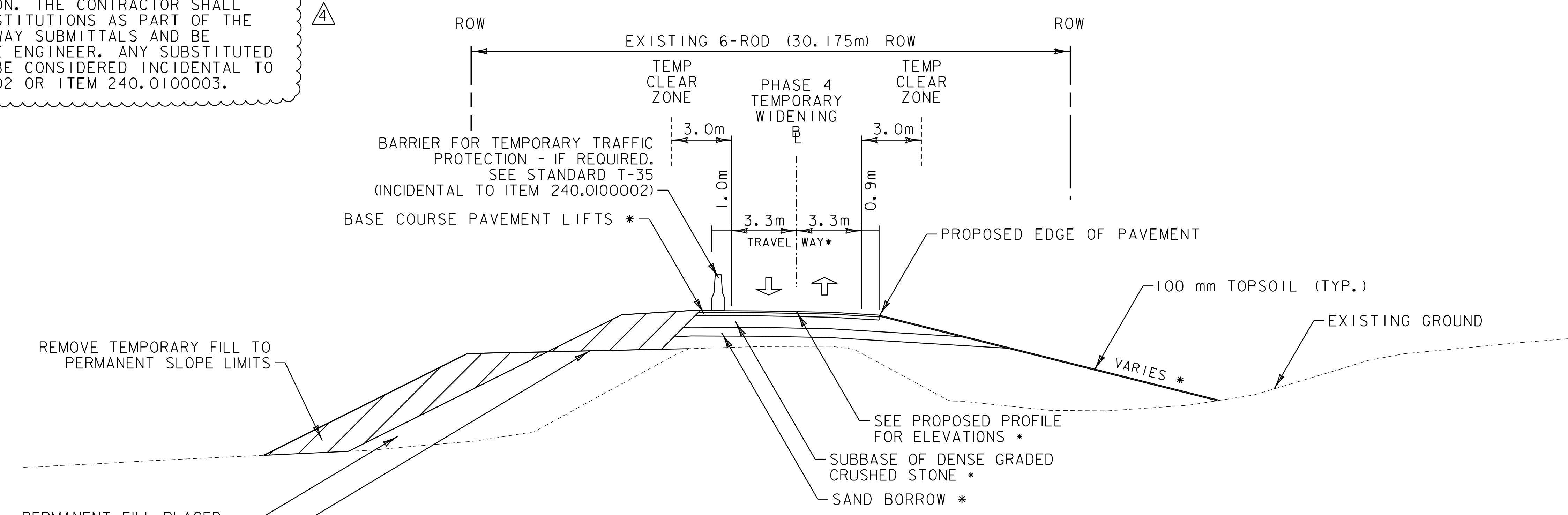
PROJECT NAME:	PITTSFORD - BRANDON		
PROJECT NUMBER:	NH 019-3 (494)		
PROJECT LEADER:	G. GOYETTE	DRAWN BY:	D. BARNES
DESIGNED BY:	D. YOULEN	CHECKED BY:	I. MAYNARD
FILE NAME:	d02b198_typ.dgn	PLOT DATE:	4/10/2026
TTC PHASING TYPICAL SECTION SHEET 2		SHEET	432 OF 529



**PHASE 3 - CONSTRUCT US ROUTE 7**  
NOT TO SCALE

SEE PHASING SUMMARY SHEET 3 FOR MORE TRAFFIC CONTROL AND WORK ANTICIPATED TO BE COMPLETED

NOTE: THE CONTRACTOR MAY PROPOSE TO USE OTHER MATERIALS IN PLACE OF THE DENSE GRADED CRUSHED STONE IN THE TEMPORARY WIDENING AND/OR DIVERSION. THE CONTRACTOR SHALL SUBMIT ANY SUBSTITUTIONS AS PART OF THE TEMPORARY ROADWAY SUBMITTALS AND BE APPROVED BY THE ENGINEER. ANY SUBSTITUTED MATERIAL WILL BE CONSIDERED INCIDENTAL TO ITEM 240.0100002 OR ITEM 240.0100003.



**PHASE 4 - CONSTRUCT REMAINING US ROUTE 7 AND REMOVE TEMPORARY FILL**  
NOT TO SCALE

\* SEE ROADWAY TYPICAL SECTIONS, ROADWAY LAYOUTS, ROADWAY PROFILE AND ROADWAY CROSS SECTIONS FOR ADDITIONAL SECTION INFORMATION

CONSTRUCT PERMANENT STRUCTURAL SECTION (SEE PROPOSED PROFILE FOR FINAL GRADES)

ADDENDUM	REVISION	PLOT DATE	DESCRIPTION	BY
A	1	04-10-2026	NOTE ADDED	DMY



PROJECT NAME: PITTSFORD - BRANDON	
PROJECT NUMBER: NH 019-3 (494)	
PROJECT LEADER: G. GOYETTE	DRAWN BY: D. BARNES
DESIGNED BY: D. YOULEN	CHECKED BY: I. MAYNARD
FILE NAME: d02bi98_typ.dgn	PLOT DATE: 4/10/2026
TTC PHASING TYPICAL SECTION SHEET 3	SHEET 433 OF 529