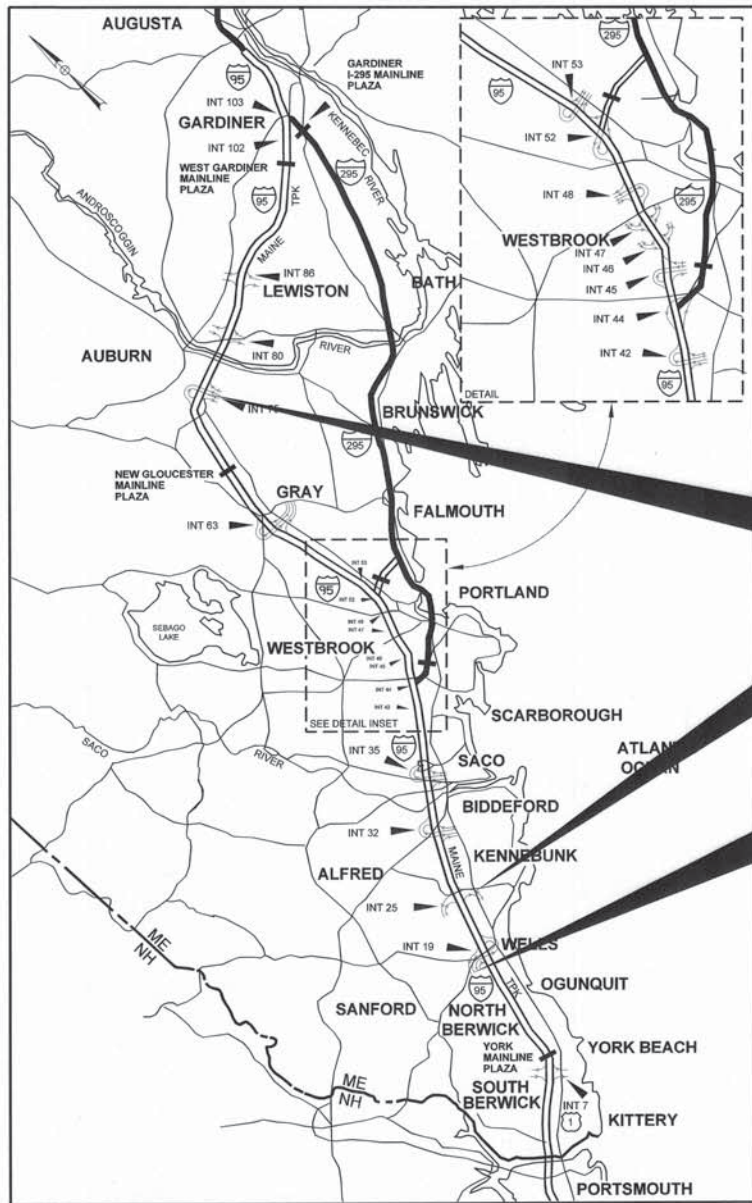


Date: 5/18/2018



LOCATION MAP



THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
 ROBERT D. STONE, VICE CHAIR
 MICHAEL J. CIANCHETTE, MEMBER
 JOHN E. DORITY, MEMBER
 ANN R. ROBINSON, MEMBER
 THOMAS J. ZUKE, CPA
 KAREN S. DOYLE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

- CONTRACT 2018.17
AUBURN - EXIT 75 TOLL SYSTEM UPGRADES
AND STREAM RELOCATION
(MM 75.3)
- CONTRACT 2018.17
KENNEBUNK - EXIT 25
TOLL SYSTEM UPGRADES
(MM 25.5)
- CONTRACT 2018.17
WELLS - EXIT 19
DIRECTIONAL BORE
(MM 19.3)

CONTRACT 2018.17 AUBURN - EXIT 75 TOLL SYSTEM UPGRADES AND STREAM RELOCATION (MM 75.3) KENNEBUNK - EXIT 25 TOLL SYSTEM UPGRADES (MM 25.5) WELLS - EXIT 19 DIRECTIONAL BORE (MM 19.3)

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CONTRACT 2018.17

APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld 5/29/18
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER DATE

Stephen R. Tatro 5/29/18
 STEPHEN R. TATRO, P.E. - DIRECTOR OF ENGINEERING & BUILDING MAINTENANCE DATE

William H. Yates 24 May 18
 WILLIAM H. YATES, - DIRECTOR OF INFORMATION SERVICES AND COMMUNICATIONS DATE



Roland A. Lavallee 5/29/18
 ROLAND A. LAVALLEE P.E., PLS DATE
 VICE PRESIDENT
 DIRECTOR OF OPERATIONS



Filename: 001_Title Sheet.dgn

Date: 5/24/2018

Item No.	Item Description	Unit	Interchange 19	Interchange 25	Interchange 75 Toll Upgrades	Interchange 75 Slope Repairs	Total Quantity
202.202	REMOVING PAVEMENT SURFACE	SY			2,650		2,650
203.20	COMMON EXCAVATION	CY			2,950	12,800	15,750
203.25	GRANULAR BORROW	CY			2,850	2,100	4,950
203.33	SPECIAL FILL	CY				400	400
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY			660	330	990
304.14	AGGREGATE BASE COURSE - TYPE A	CY			600	70	670
403.207	HOT MIX ASPHALT, 19.0 mm NOMINAL MAXIMUM SIZE	TON			190		190
403.208	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE	TON			340		340
403.2084	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE, (SIDEWALKS, DRIVES, ISLANDS, & INCIDENTALS)	TON			40		40
403.212	HOT MIX ASPHALT, 4.75 mm NOMINAL MAXIMUM SIZE	TON			72		72
403.213	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE)	TON			420		420
409.15	BITUMINOUS TACK COAT, APPLIED	GAL			400		400
419.30	SAWING BITUMINOUS PAVEMENT	LF			3,500		3,500
502.2611	STRUCTURAL CONCRETE, BUILDING FOUNDATION AND GENERATOR PAD	CY		23	23		46
502.262	STRUCTURAL CONCRETE, ROADWAY SLAB ON GRADE	CY			230		230
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED	LB		550	550		1,100
503.15	EPOXY-COATED REINFORCING STEEL, PLACING	LB		550	550		1,100
503.18	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS, FABRICATED AND DELIVERED	LB			24,000		24,000
503.19	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS, PLACING	LB			24,000		24,000
503.90	SYNTHETIC FIBER REINFORCEMENT	LB			1,150		1,150
504.61	TOLL GANTRY - SOUTHBOUND	LS			1		1
509.202	CULVERT SLOPE (110 LF)	LS			1		1
511.071	COFFERDAM: SLIP LINING	LS			1		1
511.072	COFFERDAM: SLOPE REPAIR	LS				1	1
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	SY			690		690
515.23	EPOXY OVERLAY	SY			25		25
526.306	TEMPORARY CONCRETE BARRIER TYPE I - SUPPLIED BY THE AUTHORITY (2,600 LF)	LS			1		1
527.341	WORK ZONE CRASH CUSHION - TL-3	EA			2		2
527.342	WORK ZONE CRASH CUSHION - TL-2	EA			4		4
603.2453	54 INCH REINFORCED CONCRETE PIPE - CLASS V	LF			26		26
603.28	CONCRETE COLLAR	EA			1		1
606.13	31" W-BEAM GUARDRAIL - MID-WAY SPLICE (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)	LF			250	363	613
606.1351	TERMINAL END - ANCHORED END 31" W-BEAM GUARDRAIL	EA			1	2	3
606.352	REFLECTORIZED BEAM GUARDRAIL DELINEATOR	EA			50	60	110
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	EA			11	6	17
606.791	GUARDRAIL - FLARED TERMINAL - 31" W-BEAM GUARDRAIL	EA			5	2	7
610.08	PLAIN RIPRAP	CY			81	30	111
610.181	TEMPORARY STONE CHECK DAM	CY			10		10
610.21	RIVER STONES	CY				100	100
613.319	EROSION CONTROL BLANKET	SY			560	2,800	3,360
615.07	LOAM	CY	5	5	520	870	1,400
618.1401	SEEDING METHOD NUMBER 2, PLAN QUANTITY	UN	5	5	43	49	102
618.1402	SEEDING METHOD NUMBER 2 MODIFIED, PLAN QUANTITY	UN				22	22
619.1201	MULCH, PLAN QUANTITY	UN	5	5	43	71	124
619.1202	TEMPORARY MULCH	LS	0.05	0.05	0.35	0.55	1
620.58	EROSION CONTROL GEOTEXTILE	SY			172	75	247
621.7331	LANDSCAPING (RIPARIAN STREAM BANK ZONE) SHRUB, 2'-3' GROUP A	EA				444	444
621.7341	LANDSCAPING (RIPARIAN STREAM SHELF ZONE) TREE, 3'-4' GROUP B	EA				204	204
621.7342	LANDSCAPING (RIPARIAN STREAM SHELF ZONE) SHRUB, 2'-3' GROUP C	EA				340	340
621.7351	LANDSCAPING (RIPARIAN STREAM HIGHER GROUND ZONE) TREE, 3'-4' GROUP D	EA				60	60
621.7352	LANDSCAPING (RIPARIAN STREAM HIGHER GROUND ZONE) SHRUB, 2'-3' GROUP E	EA				84	84
621.7361	LANDSCAPING (UPLAND ZONE) TREE 3'-4' GROUP F	EA				164	164
621.7362	LANDSCAPING (UPLAND ZONE) SHRUB 2'-3' GROUP G	EA				196	196
626.12	36" X 24" X 36" QUAZITE JUNCTION BOX	EA			7		7
626.13	18" X 12" X 18" QUAZITE JUNCTION BOX	EA			2		2
626.332	30-INCH DIAMETER, GREATER THAN 8- FEET LONG, AND ALL 36-INCH AND 42-INCH DIAMETER FOUNDATIONS	CY			20		20


Item No.	Item Description	Unit	Interchange 19	Interchange 25	Interchange 75 Toll Upgrades	Interchange 75 Slope Repairs	Total Quantity
627.18	12 INCH SOLID WHITE PAVEMENT MARKING LINE	LF			240		240
627.681	TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, YELLOW OR WHITE	LF			2,800		2,800
627.712	WHITE OR YELLOW PAVEMENT MARKING LINE	LF			4,100		4,100
627.73	TEMPORARY 6 INCH PAVEMENT MARKING TAPE	LF			5,950		5,950
627.731	TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE	LF			3,700		3,700
627.77	REMOVING EXISTING PAVEMENT MARKINGS	SF			1,400		1,400
629.05	HAND LABOR, STRAIGHT TIME	HR			40		40
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	HR			40		40
631.11	AIR TOOL (INCLUDING OPERATOR)	HR			40		40
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	HR			40		40
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	HR			40		40
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	HR			40		40
631.36	FOREMAN	HR			40		40
631.50	JACKHAMMER (AIR TOOL INCLUDING OPERATOR)	HR			40		40
631.51	BUCKET TRUCK	HR			40		40
631.52	SCISSOR LIFT	HR			40		40
631.53	ELECTRICIAN	HR			40		40
631.54	ELECTRICIAN'S APPRENTICE	HR			40		40
639.19	FIELD OFFICE, TYPE B	EA			0.5	0.5	1
645.1091	REMOVE AND RESET SIGN ON WOODEN POST	EA			4		4
645.1092	REMOVE AND RESET SIGN ON METAL BEAM	EA			2		2
652.33	DRUM	EA		10	40		50
652.34	CONE	EA	25	25	40		90
652.35	CONSTRUCTION SIGNS	SF	48	48	760		856
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	0.05	0.10	0.85		1
652.38	FLAGGERS	HR			80		80
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	EA			4		4
652.45	TRUCK MOUNTED ATTENUATOR	CD			20		20
655.02	DVAS MOUNT INSTALLATION	EA			4		4
655.04	INSTALLATION OF SENSOR LOOPS	LS			1		1
655.05	INSTALLATION OF AVI ANTENNA	EA			8		8
655.06	INSTALLATION OF AVI READERS	EA			4		4
655.102	#2 AWG WIRE	LF			21,800		21,800
655.110	#10 AWG WIRE	LF			3,200		3,200
655.14	4PR/24 (CATEGORY 5E) CABLE	LF			400		400
655.15	LMR 400 CABLE	LF			400		400
655.16	FIBER OPTIC CABLE	LF			2,500		2,500
655.165	FIBER OPTIC SPLICE PANEL	EA			3		3
655.204	3" SCHEDULE 80 PVC CONDUIT	LF		500	7,100		7,600
655.205	4" SCHEDULE 80 PVC CONDUIT	LF			80		80
655.30	INSTALL COMMUNICATIONS CABINET (PROVIDED BY MTA)	EA			2		2
655.31	INSTALL COMMUNICATIONS CABINET (PROVIDED BY CONTRACTOR)	EA			1		1
655.41	P44 NEMA CABINET	EA			3		3
655.43	60 AMP PANELBOARD CABINET	EA			6		6
655.71	REMOVAL OF EXISTING SELECT TOLL EQUIPMENT	LS			1		1
655.80	LIGHTNING SUPPRESSION SYSTEM	LS			1		1
655.94	GENERATOR AND EQUIPMENT	LS			1		1
655.951	UTILITY BUILDING ELECTRICAL: AUBURN	LS			1		1
655.952	UTILITY BUILDING ELECTRICAL: KENNEBUNK	LS		1			1
656.50	BALED HAY, IN PLACE	EA			50	20	70
656.60	TEMPORARY BERMS	LF				600	600
656.62	TEMPORARY SLOPE DRAINS	LF				110	110
656.632	30 INCH TEMPORARY SILT FENCE	LF			2,250	1,200	3,450
659.10	MOBILIZATION	LS	0.05	0.05	0.45	0.45	1
800.011	UTILITY BUILDING: AUBURN	LS			1		1
800.012	UTILITY BUILDING: KENNEBUNK	LS		1			1
830.25	HORIZONTAL DIRECTIONAL DRILLING, 3 INCH HDPE CONDUIT INSTALLATION	LF	450		1,700		2,150

Filename: 002_Est Quantities.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
HNTB					
HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909					
CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
	EDD	05\18	Checked	CDH	05\18
	EDD	05\18	In Charge of	RAL	05\18

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

**AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION**

ESTIMATED QUANTITIES

SHEET NUMBER: EQ-01

CONTRACT: 2018.17

2 OF 84

Date: 5/24/2018

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	12,733	
GRUBBING IN FILL	57	
TOTAL COMMON EXCAVATION (for estimate)		12,790

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	1,099	
GRUBBING IN FILL	57	
TOTAL FILL		1,156

FILL FOR GRANULAR BORROW CALCULATIONS

GRANULAR BORROW (FROM CROSS SECTIONS)	2,057	
TOTAL FILL		2,057

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION		12,790
DEDUCTIONS:		
GRUBBING IN CUT	933	
GRUBBING IN FILL	57	
LOAM SALVAGE IN CUT		
(2) TOTAL DEDUCTIONS		990
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)		11,800

SLOPE REPAIR

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	73	
GRUBBING IN FILL	93	
TOTAL COMMON EXCAVATION (for estimate)		166

FILL FOR GRANULAR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	303	
GRUBBING IN FILL	93	
TOTAL FILL		396

COMMON EXCAVATION FOR ESTIMATE FROM TEMPORARY RAMP REMOVAL

COMMON EXCAVATION (FROM CROSS SECTIONS)	463	
TOTAL FILL		463

RAMP C

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	1,187	
GRUBBING IN FILL	29	
TOTAL COMMON EXCAVATION (for estimate)		1,216

FILL FOR GRANULAR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	171	
GRUBBING IN FILL	29	
TOTAL FILL		200

RAMP A

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	185	
GRUBBING IN FILL	189	
TOTAL COMMON EXCAVATION (for estimate)		374

FILL FOR GRANULAR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	2,028	
GRUBBING IN FILL	189	
TOTAL FILL		2,217

COMMON EXCAVATION FOR ESTIMATE FROM TEMPORARY RAMP REMOVAL

COMMON EXCAVATION (FROM CROSS SECTIONS)	689	
TOTAL COMMON EXCAVATION (for estimate)		689

RAMP D

Filename: 003_EarthworkSummary.dgn

Scale:

Designed by:



HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
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**THE GOLD STAR
MEMORIAL HIGHWAY**

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION

EARTHWORK SUMMARY

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	EDD	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

SHEET NUMBER: ES-02

3 OF 84

Filename: 004_GenNotes.dgn
Date: 5/24/2018

GENERAL

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINE DOT) STANDARD DETAILS HIGHWAYS AND BRIDGES LATEST REVISION, AND MAINE DOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS OR PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED STAGING AREA LOCATIONS TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
3. RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. ADDITIONAL INFORMATION IS AVAILABLE FROM THE MAINE TURNPIKE AUTHORITY UPON REQUEST.

EARTHWORK AND PAVEMENT

1. CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO THE CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS UNLESS OTHERWISE AUTHORIZED BY THE RESIDENT. THE ACTUAL CLEARING LINES SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AND SHALL BE APPROVED BY THE RESIDENT PRIOR TO ANY CLEARING TAKING PLACE.
2. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS.
3. REMOVAL OF EXISTING FULL DEPTH PAVEMENT SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 8" BUT MAY VARY.
4. THE NORMAL GRUBBING WIDTH IN THE FILLS WHEN SUBGRADE IS LESS THAN 5' ABOVE OLD GROUND SHALL BE VARIABLE LEFT OR RIGHT. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6" IN FIELD AREAS AND 12" IN WOODED AREAS.
5. A MINIMUM OF 2 3/4" OF PAVEMENT SHALL BE REQUIRED ON ALL RAMP SHOULDERS OR SURFACES CARRYING TRAFFIC DURING CONSTRUCTION PHASING.

SITE ACCESS NOTES

1. ACCESS TO RAMP AREAS MUST OCCUR WITHIN THE RIGHT OF WAY CONTROLLED BY THE MAINE TURNPIKE AUTHORITY. CURRENT RIGHT OF WAY PLANS ARE AVAILABLE UPON REQUEST TO THE RESIDENT.
2. ACCESS THROUGH AREAS BEYOND THE LIMITS OF DISTURBANCE ARE TO BE APPROVED BY THE RESIDENT.

GUARDRAIL

1. AT THE END OF EACH WORK DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL WITHIN ALL WORK AREAS THAT ARE ACCESSIBLE TO TRAFFIC.
2. REMOVAL AND DISPOSAL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.
3. OFFSET BLOCKS SHALL BE NON-WOOD CONFORMING TO NCHRP 350 TEST LEVEL 3.
4. ALL GUARDRAIL SHALL BE INSTALLED IN A MANNER TO AVOID DRAINAGE STRUCTURES AND UTILITIES.
5. GUARDRAIL SET IN THE VICINITY OF DIRECTIONAL BORING SHALL BE COORDINATED TO AVOID CONFLICT.

EROSION CONTROL

1. THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT UNDER THE APPROPRIATE PAY ITEMS.
2. 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.
3. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
4. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE FINAL SEEDED WITHIN 30 DAYS.
5. SEEDING METHOD NO. 2 SHALL BE UTILIZED ON ALL NON-GUARDRAIL FORE SLOPES, FROM THE EDGE OF SHOULDER TO THE DITCH LINE OR TOE OF FILL. SEEDING METHOD NO. 3 SHALL BE UTILIZED ON ALL BACK SLOPES AND ON ALL GUARDRAIL FRONT SLOPES.
6. A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT ALL STREAM LOCATIONS AND OPEN WATER WETLANDS AS SHOWN ON THE PLANS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF EROSION CONTROL ITEMS AROUND STOCKPILES, IN ACCORDANCE WITH MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES. PAYMENT FOR THESE ITEMS SHALL BE INCIDENTAL TO THE MATERIAL STOCKPILED.
8. TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL PERMANENT AND TEMPORARY DITCHES AND ON ALL PERMANENT 2:1 SLOPES FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6' WIDE OR AS DESIGNATED BY THE RESIDENT.

TOLLING

1. TRANSORE SHALL PROVIDE THE FOLLOWING ITEMS TO BE INSTALLED BY THE CONTRACTOR:
 - A. IVIS LOOP SENSOR TEMPLATES FOR CUTTING CONCRETE
 - B. COSTAR ENCLOSURES AND PELCO MOUNTING HOOKS FOR DVAS CAMERAS
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING ITEMS:
 - A. 3 ELECTRICAL CABINETS FOR POWER PANELS ON CONCRETE FOUNDATION (P-44)
 - B. 1 COMMUNICATIONS CABINET FOR LANE CONTROLLERS, AVI READERS, AND FIBER OPTIC PATCH PANELS (1-NEW 332 D) ON CONCRETE FOUNDATION
 - C. ALL REQUIRED FOUNDATIONS FOR RELOCATED AND INSTALLED CABINETS
 - D. ALL REQUIRED JUNCTION BOXES, CONDUIT AND ASSOCIATED WIRING
 - E. HOMERUN CABLES FOR IVIS LOOP SENSORS
 - F. SAW CUTTING FOR IVIS LOOP SENSORS
3. THE MAINE TURNPIKE SHALL PROVIDE THE FOLLOWING ITEMS TO BE INSTALLED BY THE CONTRACTOR:
 - A. 2 COMMUNICATIONS CABINETS (LANE CONTROLLER/AVI) (2 TO BE RELOCATED BY CONTRACTOR)
4. TRANSORE SHALL PROVIDE, INSTALL AND TERMINATE THE FOLLOWING ITEMS:
 - A. DVAS CAMERAS
 - B. NEW LANE CONTROLLERS AND ASSOCIATED SWITCHES
 - C. IVIS LOOP SENSORS, INCLUDING EPOXY AND EQUIPMENT FOR INSTALLATION
5. ALL IVIS SENSOR LOOPS SHALL HAVE AN EPOXY OVERLAY PER SECTION 515 OF THE SPECIAL PROVISIONS.

UTILITY

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM RECORD DRAWINGS AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 PRIOR TO THE START OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT MAY COORDINATE UTILITY LOCATIONS WITH THE MTA.
2. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:
 - MAINE TURNPIKE AUTHORITY
 - MAINE DOT
 - CENTRAL MAINE POWER
 - CITY OF AUBURN
 - CITY OF KENNEBUNK
 - CONSOLIDATED COMMUNICATIONS
 - KENNEBUNK LIGHTING AND POWER
 - TIME WARNER CABLE / SPECTRUM
3. SEE SPECIFICATIONS FOR REQUIRED UTILITY COORDINATION.

POWER AND COMMUNICATIONS

1. EXISTING LIGHTING WITHIN THE PROJECT LIMITS SHALL BE OPERATIONAL AT ALL TIMES.
2. CUTTING AND SPLICING NEW WIRING TO EXISTING WIRING TO NEW WIRING IS NOT PERMITTED.
3. PROPOSED CONDUIT SHALL HAVE A MINIMUM 2" OFFSET DOWN SLOPE OF EXISTING CONDUIT. APPROXIMATE LOCATION OF EXISTING CONDUIT IS SHOWN ON THE PLANS.
4. EXISTING CONDUIT MAY BE ASBESTOS CEMENT CONDUIT. CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE IT. ALL EXISTING CONDUIT THAT REQUIRES REMOVAL DUE TO NEW CONSTRUCTION SHALL BE REMOVED PER THE SPECIFICATIONS, SPECIAL PROVISION 202, AND AS DIRECTED BY THE RESIDENT.
5. ALL WIRE SHALL BE COPPER, NO ALUMINUM WIRE IS ALLOWED.
6. ALL CONDUIT TRENCHES SHALL BE INSTALLED IN A MANNER TO AVOID DRAINAGE STRUCTURES AND UTILITIES.
7. THE CONTRACTOR SHALL ONLY EXCAVATE AN AMOUNT OF UTILITY TRENCH THAT CAN BE BACKFILLED IN THE SAME DAY. UTILITY TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT.
8. ROCK EXCAVATION REQUIRED FOR CONDUIT TRENCH SHALL BE INCIDENTAL TO THE WORK.

DRAINAGE

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED, OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
2. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATORS).

PAVEMENT MARKINGS



1. THE CONTRACTOR SHALL RE-PAINT ALL EXISTING PAVEMENT MARKINGS WITHIN THE LIMITS OF CONSTRUCTION AND AS DIRECTED BY THE RESIDENT.

GEOTECHNICAL

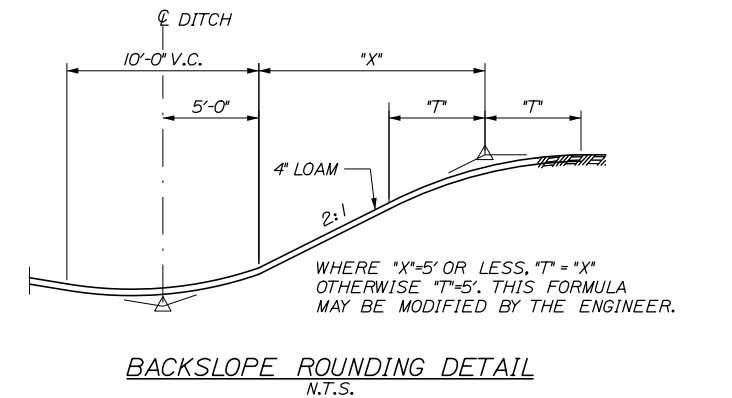
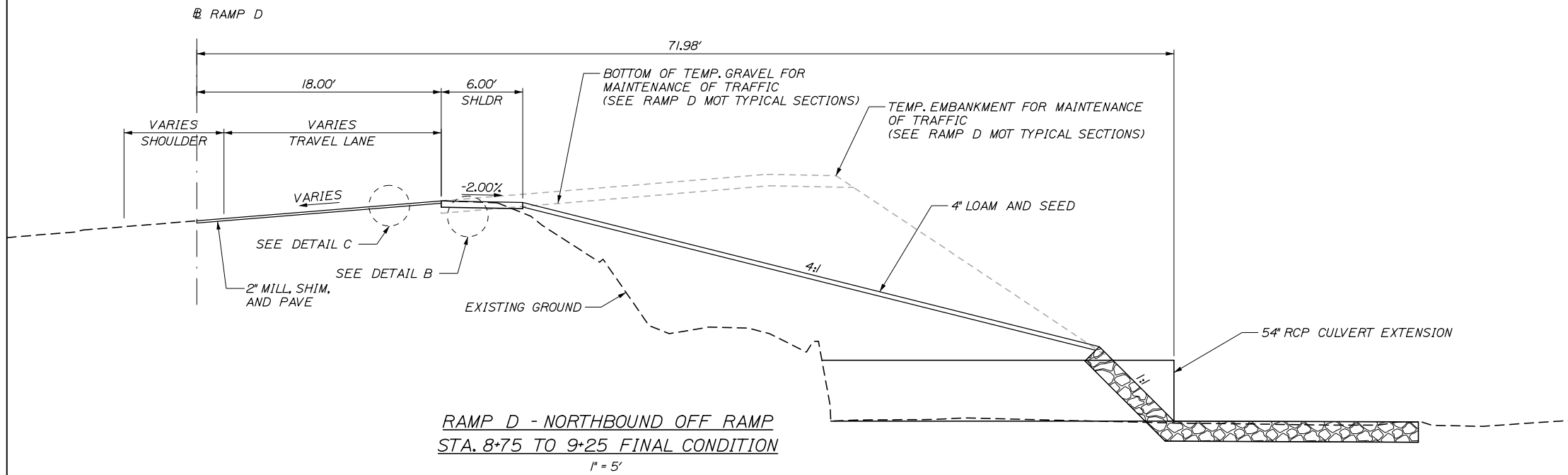
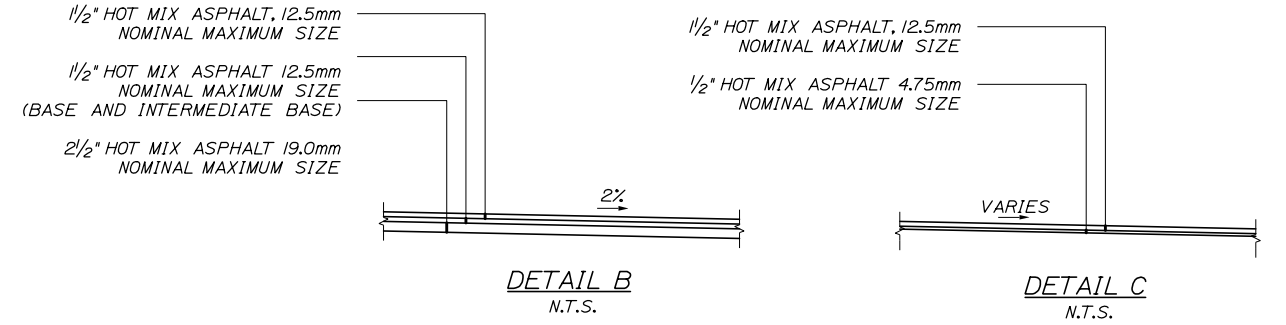
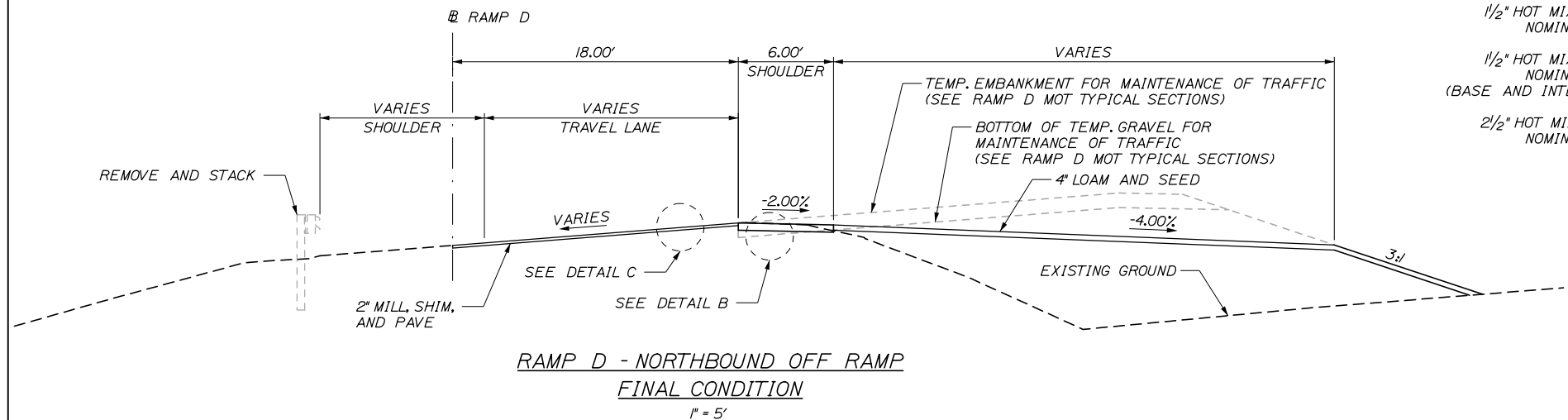
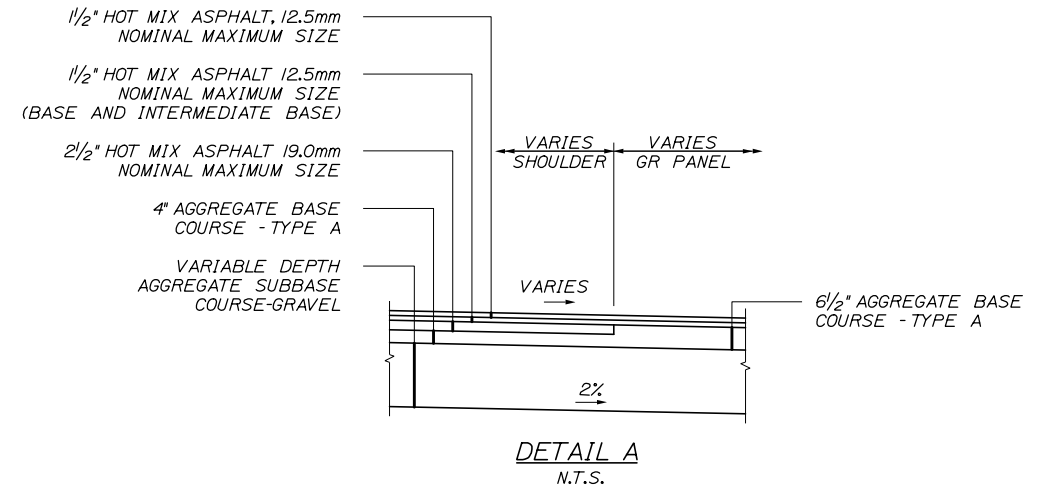
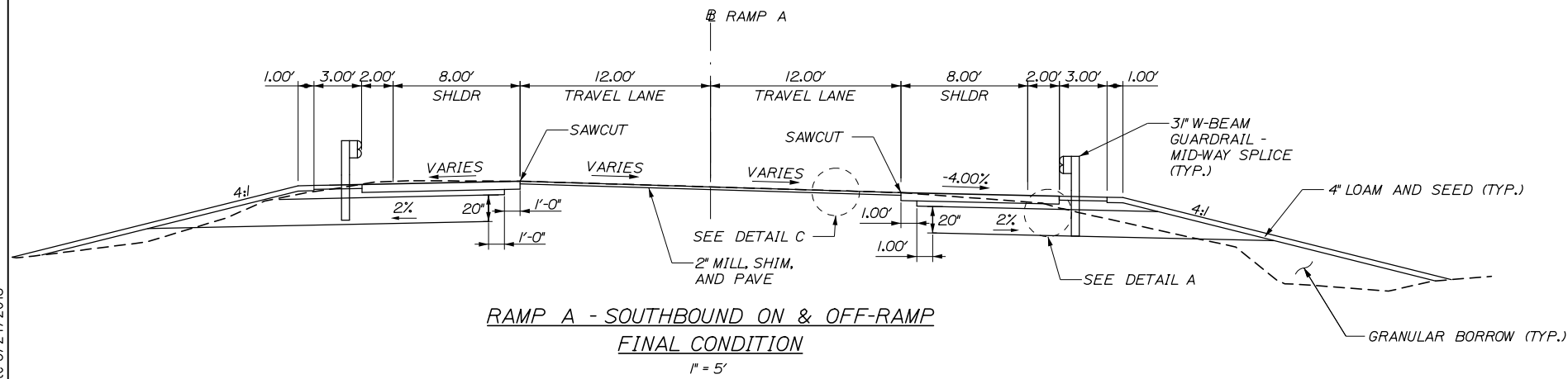
1. THE GEOTECHNICAL REPORT FOR THE PROJECT IS ENTITLED "PRELIMINARY SUMMARY OF GEOTECHNICAL FINDINGS AND RECOMMENDATIONS, MITIGATION OF ON-GOING SLOPE INSTABILITY, MAINE TURNPIKE, EXIT 75, AUBURN, MAINE" DATED JANUARY 29, 2018 AND PREPARED BY SCHONEWALD ENGINEERING ASSOCIATES, INC.
2. GEOTECHNICAL INFORMATION FURNISHED OR REFERENCED IN THIS PLAN SET IS FOR THE BIDDERS' AND CONTRACTOR'S USE. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE TIME OF CONSTRUCTION. THE AUTHORITY SHALL NOT BE RESPONSIBLE FOR THE BIDDERS' AND CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION. THE BORING LOGS CONTAINED IN THE REFERENCED REPORT PRESENT INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN WIDELY-SPACED BORING LOCATIONS.
3. SUBGRADE PREPARATION IN EMBANKMENT FILL AREAS AND EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 203 EXCEPT AS AMENDED BY SPECIAL PROVISION 203.
4. SITE SOILS CONSIST PRIMARILY OF STIFF MARINE SILT-CLAY AND SILTY GLACIAL TILL, BOTH OF WHICH ARE SUSCEPTIBLE TO DISTURBANCE WHEN REPEATEDLY WORKED WITH CONSTRUCTION EQUIPMENT OR WHEN SUBJECTED TO SUSTAINED VIBRATIONS. THIS MATERIAL CAN ALSO PUMP UP/MIGRATE INTO OVERLYING GRANULAR FILL MATERIALS. SHOULD THE SOIL BECOME DISTURBED, THE MATERIAL SHALL BE CONSIDERED "UNSUITABLE" AND SHALL BE OVEREXCAVATED AND REPLACED WITH NEW MATERIAL THAT MEETS THE PROJECT REQUIREMENTS. NO ADDITIONAL PAYMENT WILL BE MADE FOR EXCAVATING AND REPLACING DISTURBED MATERIAL.
5. EMBANKMENT PREPARATION AND BENCHING SHALL BE AS SPECIFIED IN STANDARD SPECIFICATION 203 EXCEPT AS AMENDED BY SPECIAL PROVISION 203. WHERE EMBANKMENT FILL IS PLACED AGAINST EXISTING SLOPES, THE EXISTING SLOPE SHALL BE STRIPPED OF ORGANICS, UNSUITABLES, AND LOOSE SOIL, AND THE EXPOSED SURFACE BENCHED SUFFICIENTLY SO THAT NEW FILL IS KEYED INTO THE EXISTING SLOPE.
6. DISPOSAL OF WASTE MATERIALS, INCLUDING STUMPS, GRUBBINGS, AND UNSUITABLE EXCAVATED MATERIALS, SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 203 EXCEPT AS AMENDED BY SPECIAL PROVISION 203. SPECIAL PROVISION 203 DOES NOT PERMIT THE DISPOSAL OF WASTE MATERIALS IN ANY PORTION OF EMBANKMENTS.
7. THE LOWER PORTION OF NEW EMBANKMENT AREAS IN THE SLOPE REPAIR SECTION THAT ARE SPECIFIED ON THE TYPICAL SECTIONS TO HAVE LOWER PERMEABILITY MATERIAL (SILT-CLAY FILL) SHALL BE CONSTRUCTED USING SUITABLE SILT-CLAY COMMON EXCAVATION THAT HAS BEEN APPROVED FOR REUSE BY THE RESIDENT. THE MATERIAL SHALL BE PLACED IN THIN (8" MAX UNLESS OTHERWISE APPROVED) HORIZONTAL LIFTS AND COMPACTED USING CARE NOT TO OVERWORK (DISTURB) THE MATERIAL.
8. THE ENTIRE EMBANKMENTS, INCLUDING THE AREAS OUTSIDE THE 1.5H:1V LINE EXTENDING DOWNWARD FROM THE FINISHED SHOULDER, SHALL BE COMPACTED SUFFICIENTLY TO ACHIEVE A FIRM AND STABLE SURFACE UNDER THE ACTION OF CONSTRUCTION EQUIPMENT TO THE SATISFACTION OF THE RESIDENT.
9. FILL/BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, EXCEPT AS AMENDED BY SPECIAL PROVISIONS 203.

FOUNDATIONS

1. ALL GANTRY AND MAST ARM FOUNDATIONS WILL BE PAID UNDER ITEM 626.332 AND WILL FOLLOW THE CURRENT MAINE DOT STANDARD SPECIFICATION AND STANDARD DETAILS. THE TEST BORINGS FOR THE PROJECT DO NOT APPLY TO THE GANTRY AND MAST ARM FOUNDATIONS. SPECIFIC TEST BORINGS WERE NOT TAKEN AT THESE LOCATIONS, AND IT'S THE CONTRACTORS RESPONSIBILITY TO VERIFY SOIL CONDITIONS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR LEDGE EXCAVATION OR ROCK SOCKETING/ANCHORING.

Scale:		Designed by:				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY		AUBURN - EXIT 75 TOLL SYSTEM UPGRADES AND STREAM RELOCATION GENERAL NOTES	
No.	Revision	By	Date										
				By	Date	By	Date	MTA PROJECT MANAGER: William Yates		CONTRACT: 2018.17			
				Designed	EDD 05\18	Checked	CDH 05\18			SHEET NUMBER: GN-01			
				Drawn	EDD 05\18	In Charge of	RAL 05\18			4 OF 84			

Date: 5/24/2018



- NOTES:**
1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
 2. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER TO LEAVE A CLEAN, VERTICAL FACE.
 3. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY THE RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
 4. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS PRIOR TO PAVING.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

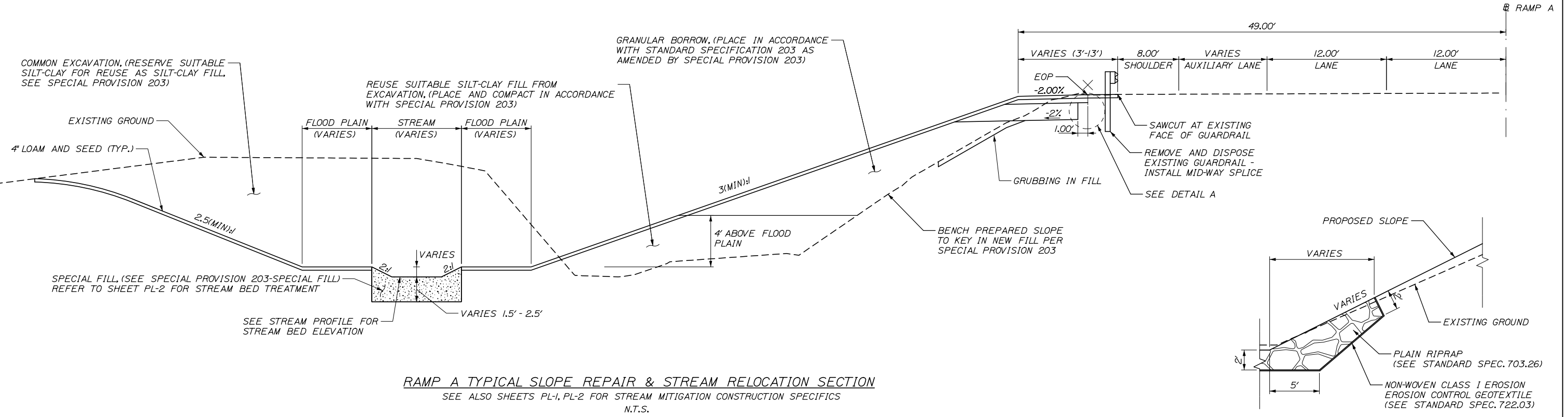
MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION

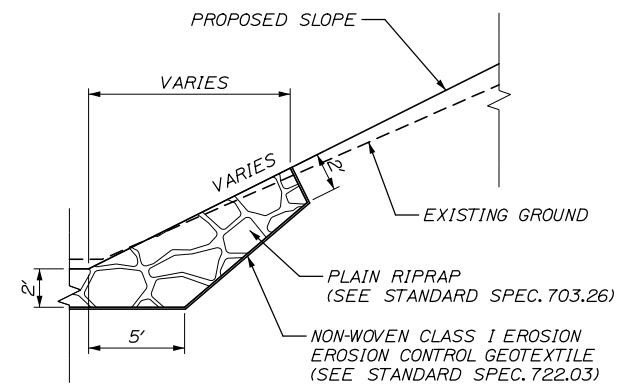
TOLL IMPROVEMENT
TYPICAL SECTIONS

SHEET NUMBER: TS-01
CONTRACT: 2018.17
5 OF 84

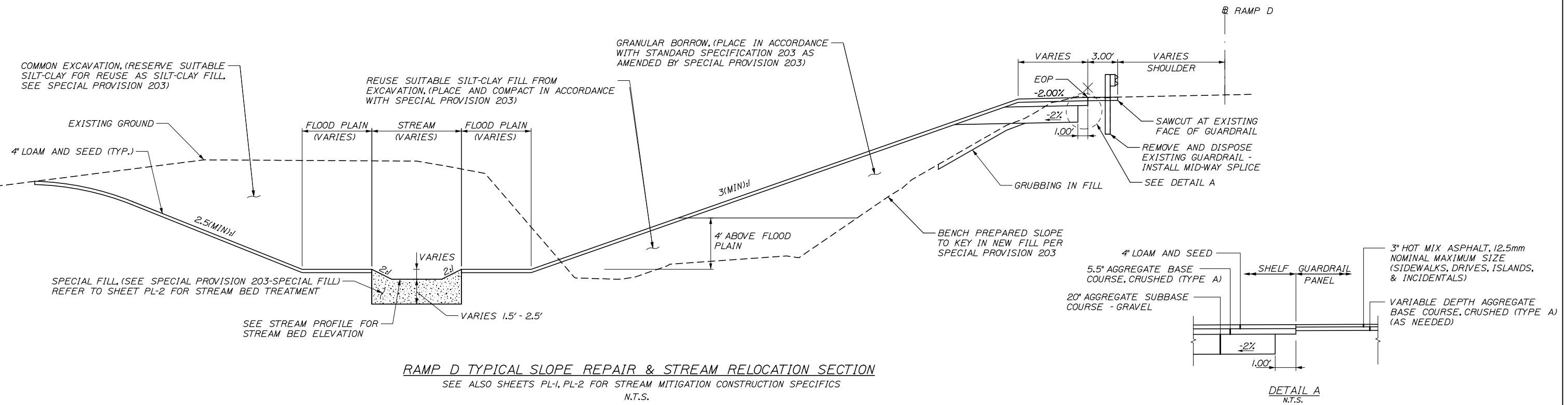
Date: 5/24/2018



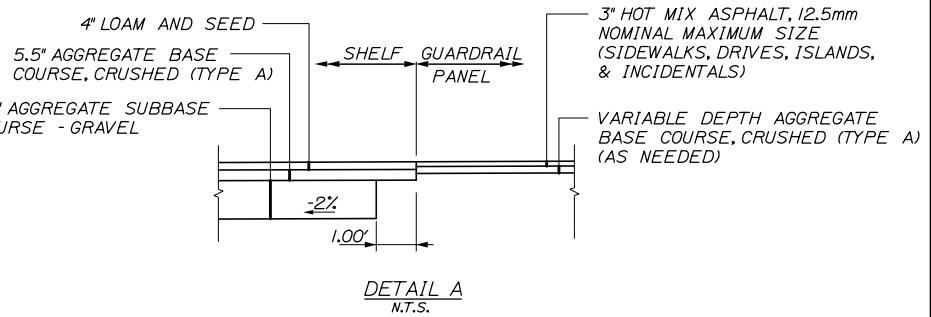
RAMP A TYPICAL SLOPE REPAIR & STREAM RELOCATION SECTION
 SEE ALSO SHEETS PL-1, PL-2 FOR STREAM MITIGATION CONSTRUCTION SPECIFICS
 N.T.S.



TOE KEY DETAIL
 N.T.S.



RAMP D TYPICAL SLOPE REPAIR & STREAM RELOCATION SECTION
 SEE ALSO SHEETS PL-1, PL-2 FOR STREAM MITIGATION CONSTRUCTION SPECIFICS
 N.T.S.



DETAIL A
 N.T.S.

Filename: 006_Slope Repair Typical.dgn

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Drawn	EDD	05\18	In Charge of	RAL	05\18

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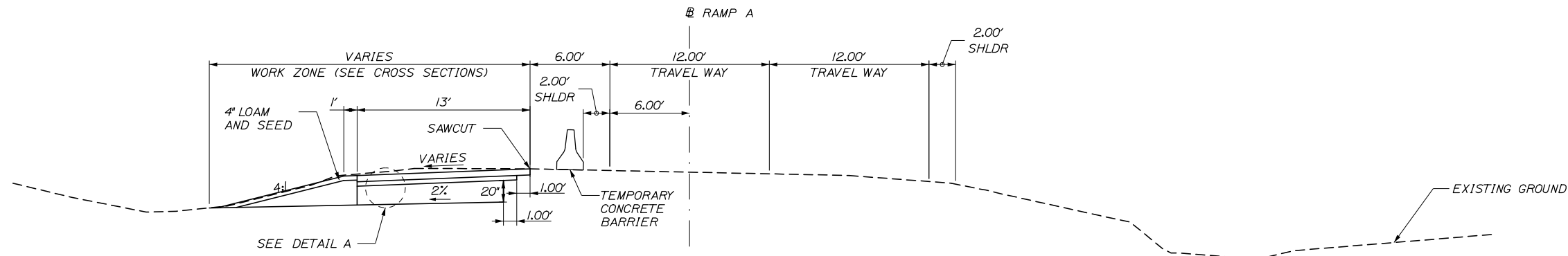
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 SLOPE REPAIR AND STREAM RELOCATION
 TYPICAL SECTIONS

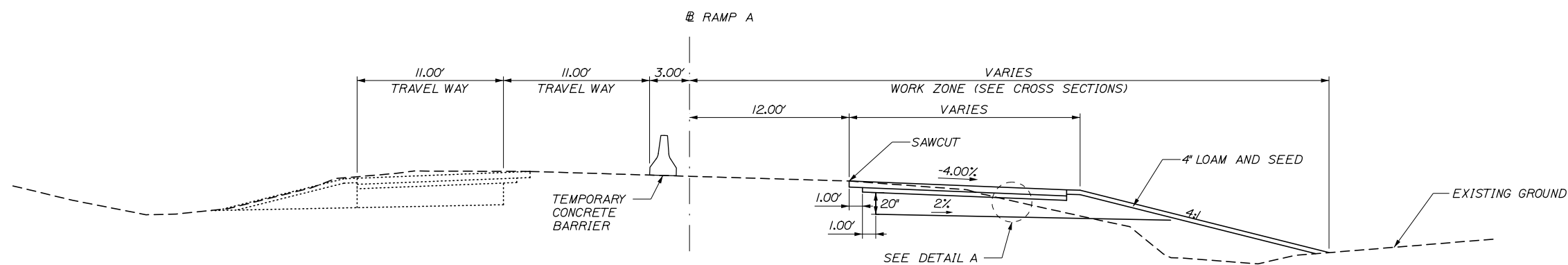
SHEET NUMBER: TS-02
 CONTRACT: 2018.17
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Date: 5/24/2018



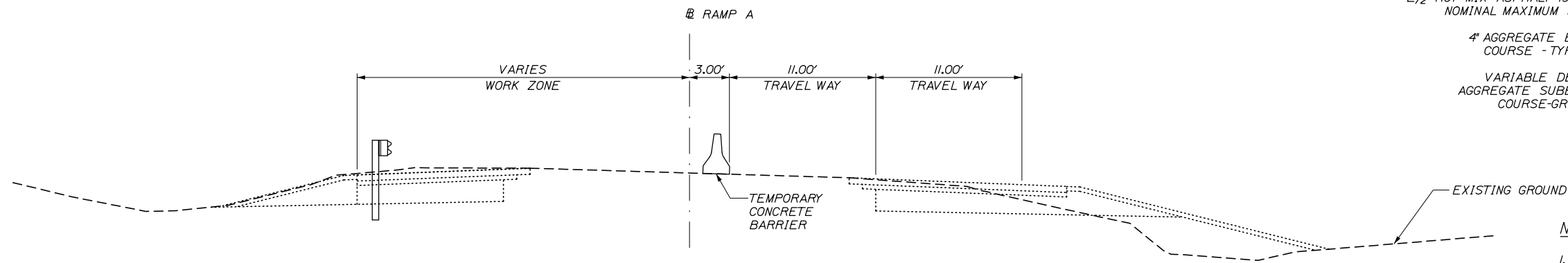
RAMP A - PHASE 1 MAINTENANCE OF TRAFFIC

1" = 5'



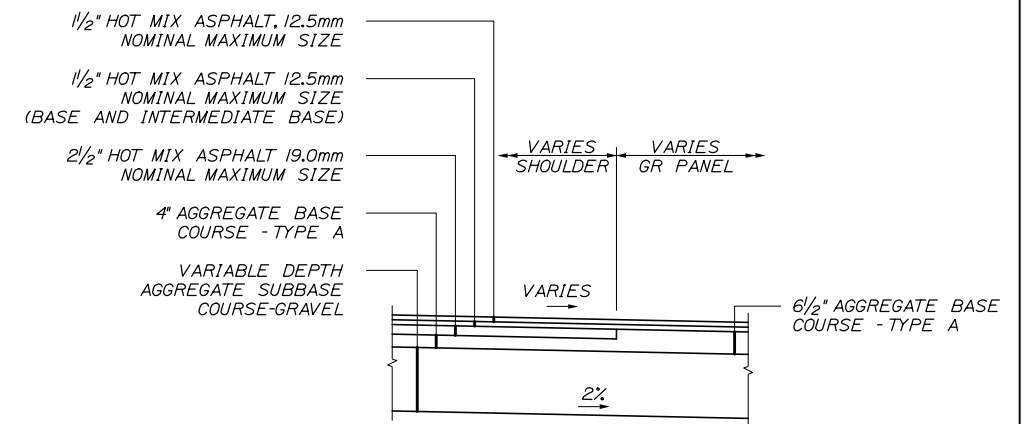
RAMP A - PHASE 2 MAINTENANCE OF TRAFFIC

1" = 5'



RAMP A - PHASE 3 MAINTENANCE OF TRAFFIC

1" = 5'



DETAIL A
N.T.S.

NOTES:


1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER TO LEAVE A CLEAN, VERTICAL FACE.
3. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY THE RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
4. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS PRIOR TO PAVING.

Filename: 007_TypSecM0101.dgn

Scale:			
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No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	EDD	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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MAINE
TURNPIKE

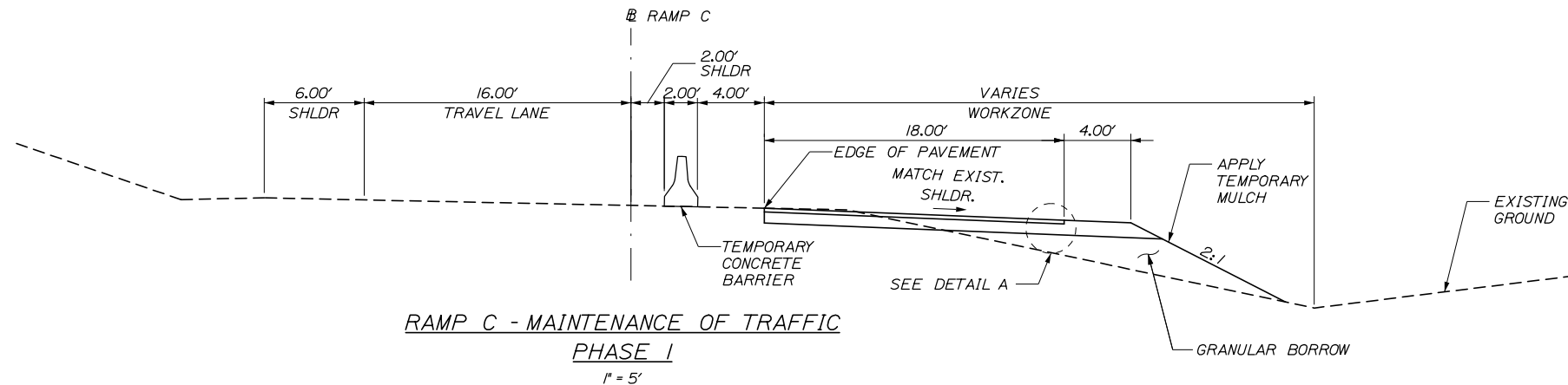
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

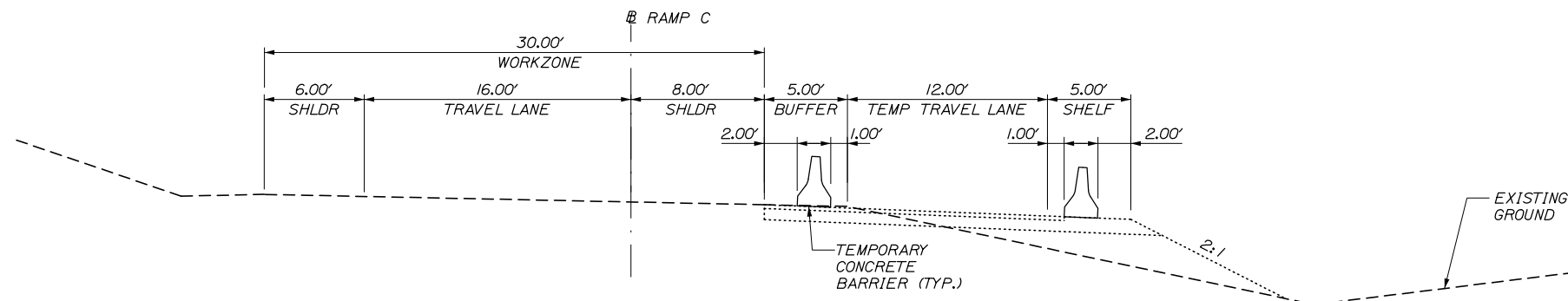
AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
RAMP A MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

SHEET NUMBER: TS-03
CONTRACT: 2018.17
7 OF 84

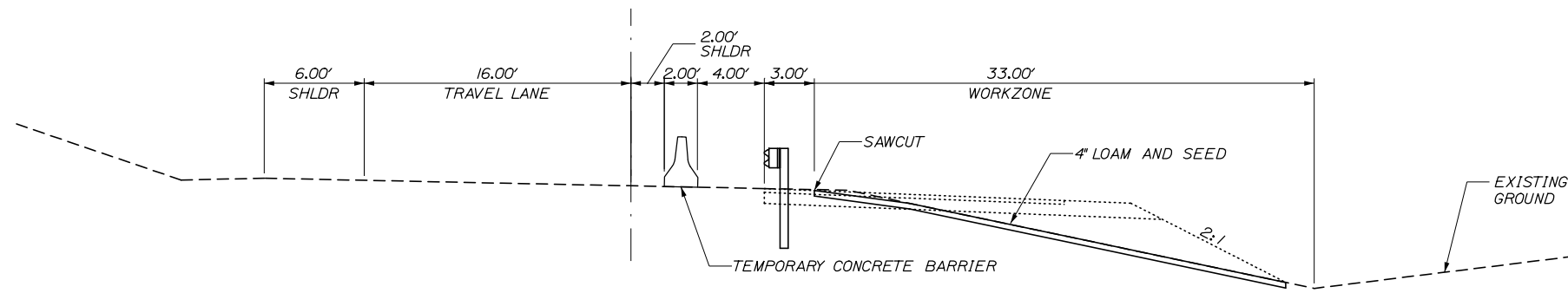
Date: 5/24/2018



RAMP C - MAINTENANCE OF TRAFFIC
PHASE 1
1" = 5'

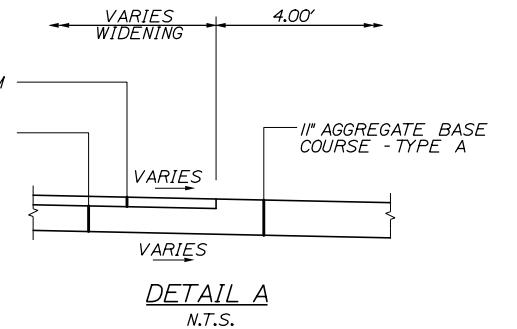


RAMP C - MAINTENANCE OF TRAFFIC
PHASE 2
1" = 5'



RAMP C - MAINTENANCE OF TRAFFIC
PHASE 3
1" = 5'

3" HOT MIX ASPHALT, 12.5mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE)
8" AGGREGATE BASE COURSE - TYPE A



NOTES:

1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER TO LEAVE A CLEAN, VERTICAL FACE.
3. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY THE RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
4. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS PRIOR TO PAVING.
5. ALL PAVEMENT, SUBBASE, AND FILL MATERIAL ON RAMPS C IS TEMPORARY AND TO BE REMOVED AND DISPOSED OF OFF SITE UPON COMPLETION OF THE WORK, EXCEPT AREAS BEHIND PROPOSED GUARDRAIL AND END TREATMENT GRADING.

Filename: 008_TypSecM0102.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
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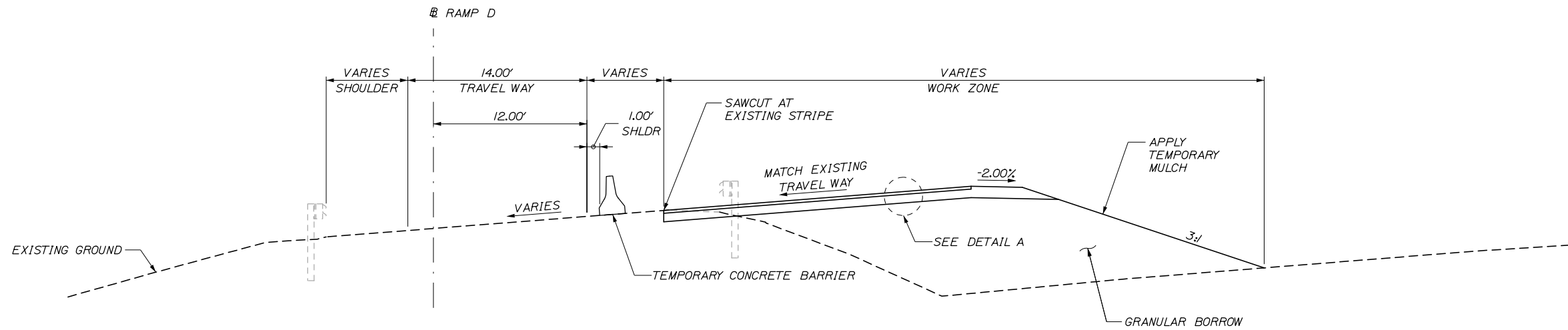
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

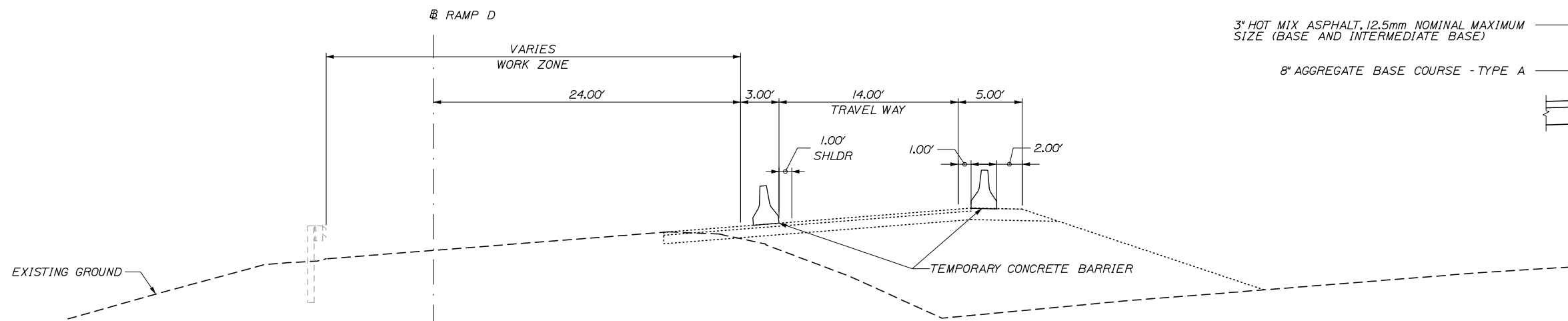
AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
RAMP C MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

SHEET NUMBER: TS-04
CONTRACT: 2018.17
8 OF 84

Date: 5/24/2018

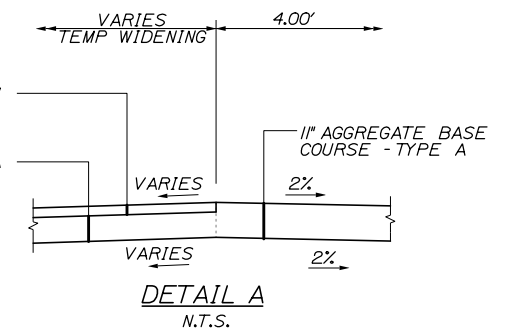


**RAMP D - MAINTENANCE OF TRAFFIC
PHASE 1 AND PHASE 3**
1" = 5'



**RAMP D - MAINTENANCE OF TRAFFIC
PHASE 2**
1" = 5'

3" HOT MIX ASPHALT, 12.5mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE)
8" AGGREGATE BASE COURSE - TYPE A



NOTES:


1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER TO LEAVE A CLEAN, VERTICAL FACE.
3. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY THE RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
4. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS PRIOR TO PAVING.
5. PHASE 1 MOT WILL BE REUSED FOR REMOVAL OF TEMPORARY PAVEMENT AND THE REPAVING OF SHOULDER

Filename: 009_TypSecM0103.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
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Drawn	EDD	05\18	In Charge of	RAL	05\18

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**MAINE
TURNPIKE**

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
RAMP D MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

SHEET NUMBER: TS-05
CONTRACT: 2018.17
9 OF 84

Date: 5/24/2018



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HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

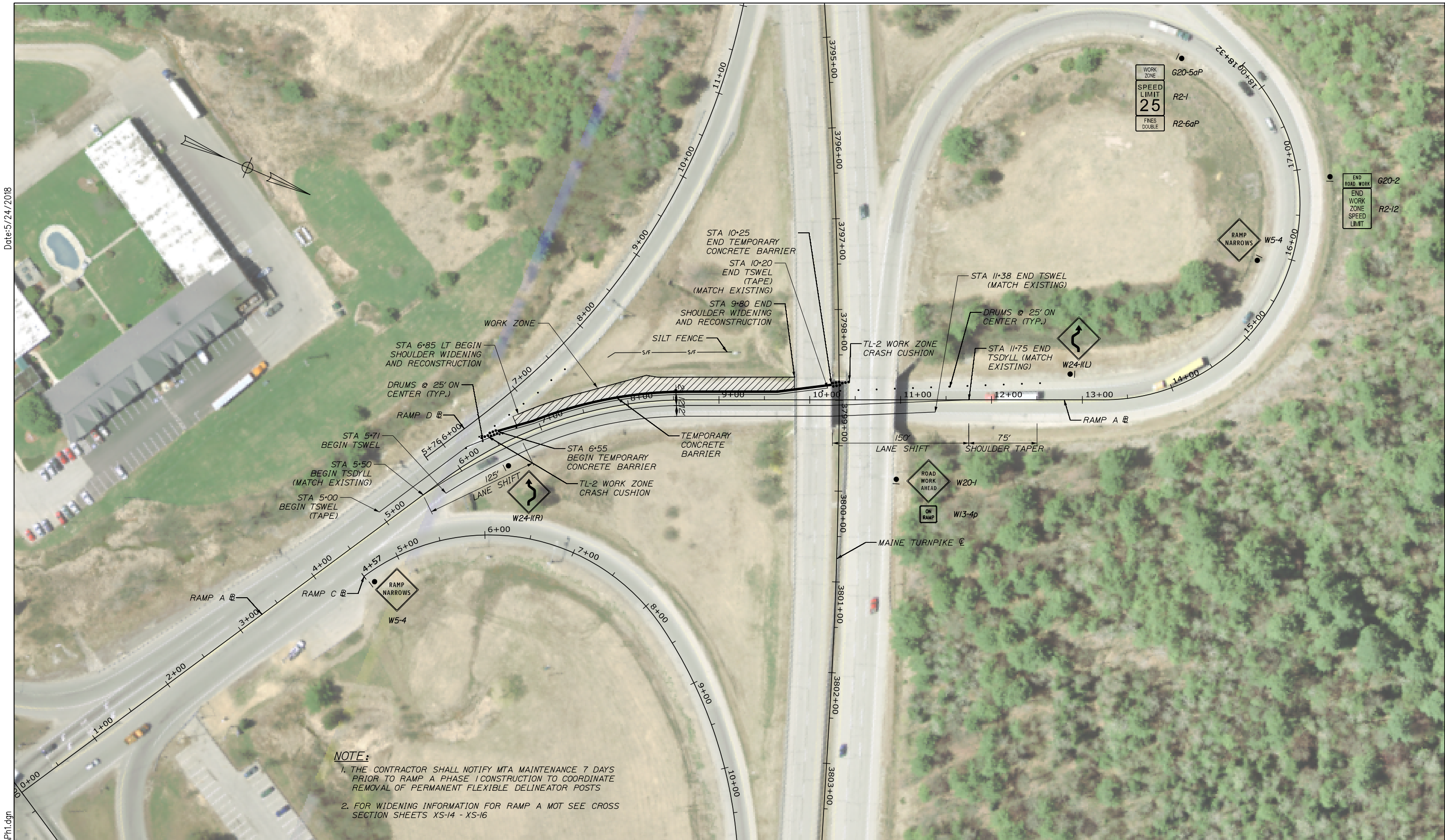
MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
MAINTENANCE OF TRAFFIC
INDEX OF SHEETS

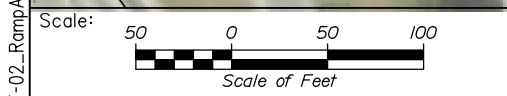
SHEET NUMBER: MT-01
CONTRACT: 2018.17
10 OF 84

Filename: 010_MOT_Index.dgn

Date: 5/24/2018



NOTE:
 1. THE CONTRACTOR SHALL NOTIFY MTA MAINTENANCE 7 DAYS PRIOR TO RAMP A PHASE I CONSTRUCTION TO COORDINATE REMOVAL OF PERMANENT FLEXIBLE DELINEATOR POSTS
 2. FOR WIDENING INFORMATION FOR RAMP A MOT SEE CROSS SECTION SHEETS XS-14 - XS-16



No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
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Drawn	EDD	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

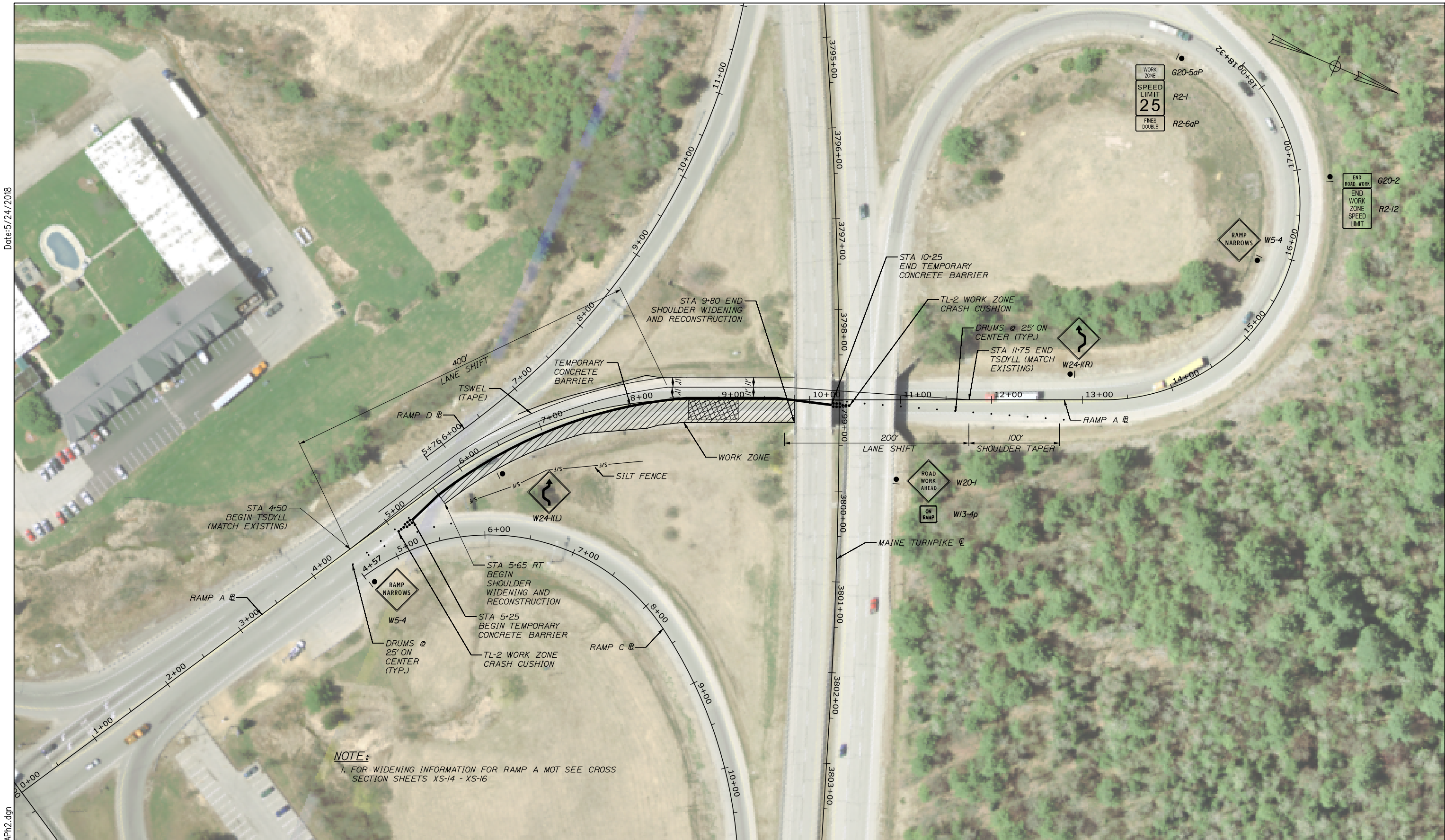
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MAINTENANCE OF TRAFFIC
 RAMP A - PHASE 1

SHEET NUMBER: MT-02
 11 OF 84

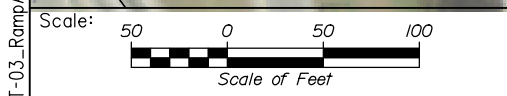
CONTRACT: 2018.17

Filename: 011_MOT-02_RampAPl1.dgn

Date: 5/24/2018



NOTE:
1. FOR WIDENING INFORMATION FOR RAMP A MOT SEE CROSS SECTION SHEETS XS-14 - XS-16



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

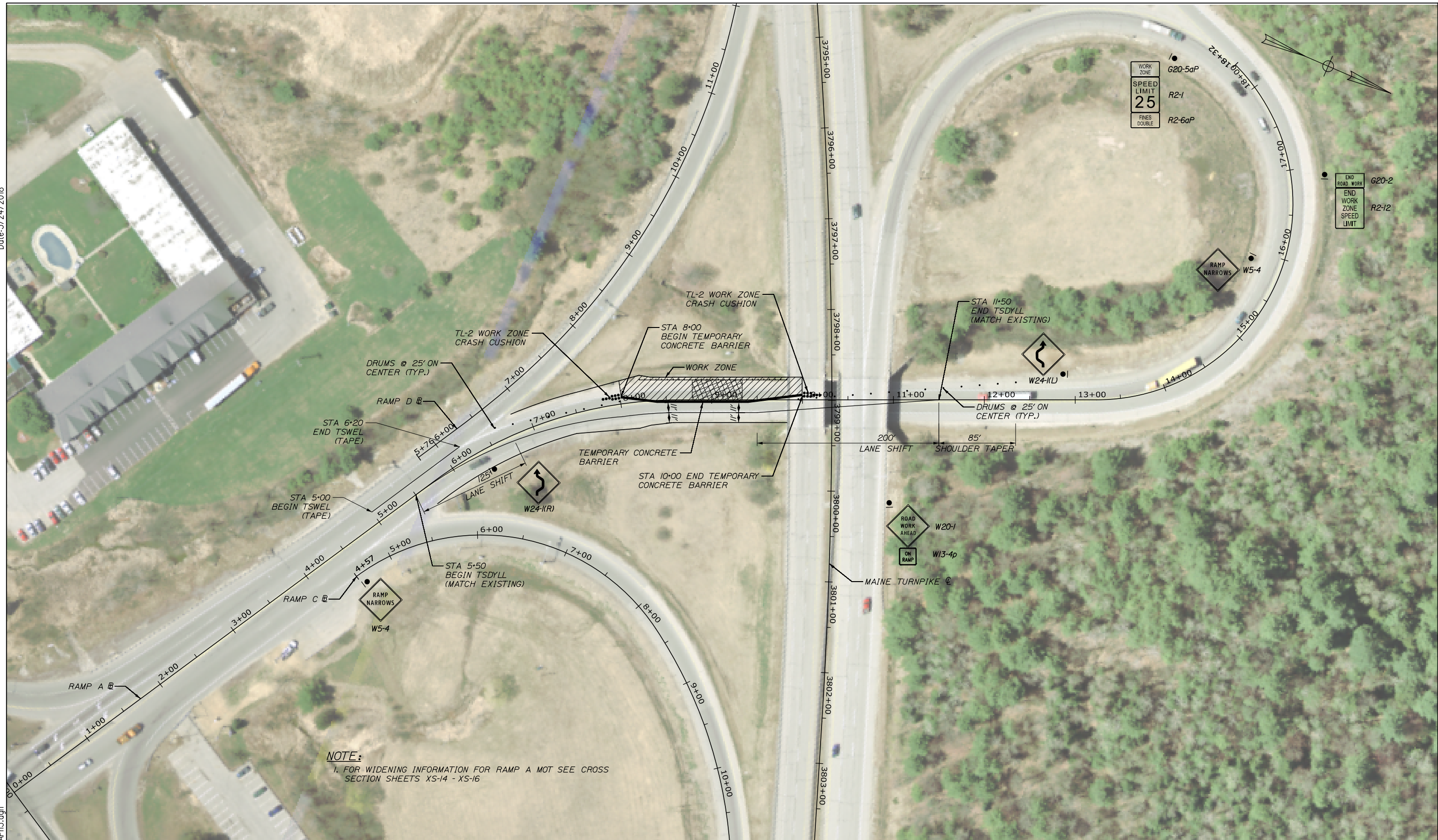
AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
MAINTENANCE OF TRAFFIC
RAMP A - PHASE 2

SHEET NUMBER: MT-03
CONTRACT: 2018.17
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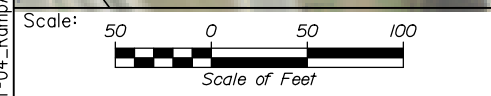
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Date: 5/24/2018

Filename: 013_MOT-04_RampAPh3.dgn



NOTE:
1. FOR WIDENING INFORMATION FOR RAMP A MOT SEE CROSS SECTION SHEETS XS-14 - XS-16



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

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Designed	CDH	05\18	Checked	RBM	05\18
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

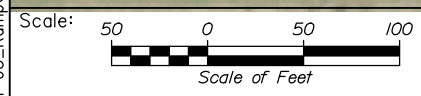
AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
MAINTENANCE OF TRAFFIC
RAMP A - PHASE 3

SHEET NUMBER: MT-04
13 OF 84

CONTRACT: 2018.17

Date: 5/24/2018

Filename: 014_MOT-05_RampCPh1and3.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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THE GOLD STAR MEMORIAL HIGHWAY

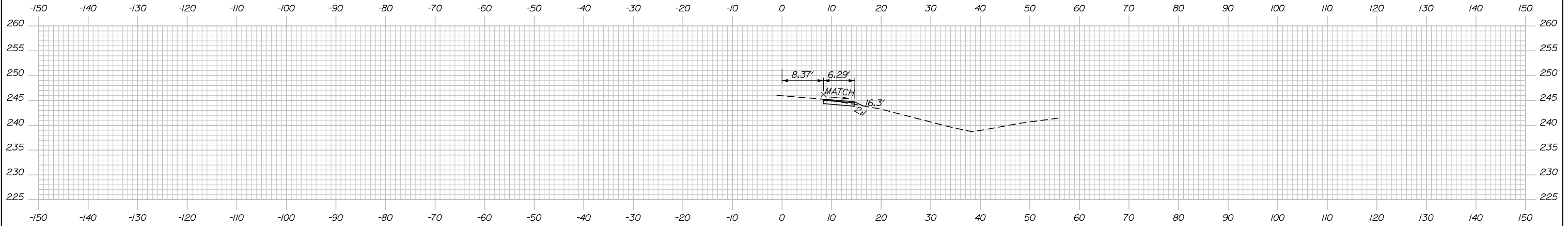
MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MAINTENANCE OF TRAFFIC
 RAMP C - PHASE 1 AND 3

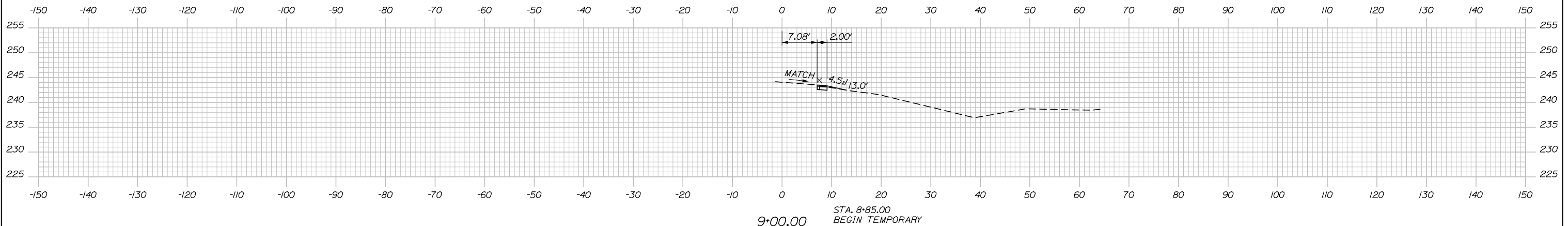
CONTRACT: 2018.17

SHEET NUMBER: MT-05
 14 OF 84

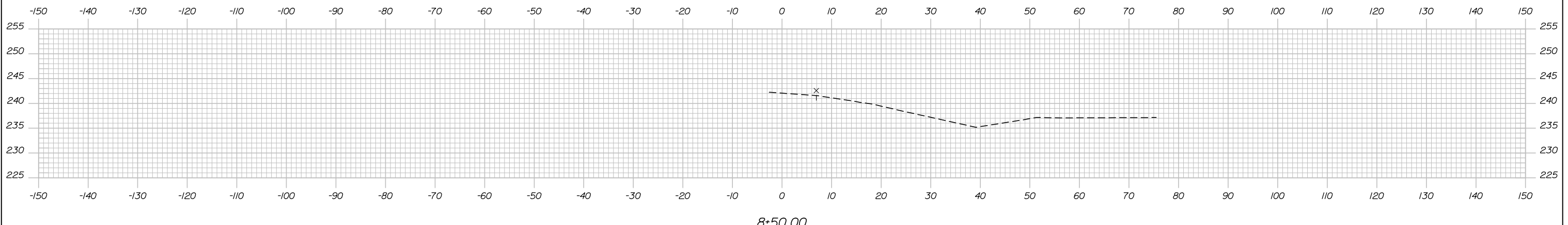
Date: 5/24/2018



9+50.00



9+00.00



8+50.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP C - STA. 8+50 TO STA.9+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.					
Designed	By	Date	Checked	By	Date
	CDH	05\18		RBM	05\18
Drawn	By	Date	In Charge of	By	Date
	EDD	05\18		RAL	05\18

MTA PROJECT MANAGER: William Yates

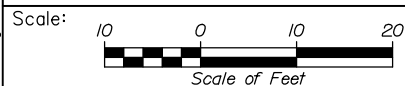
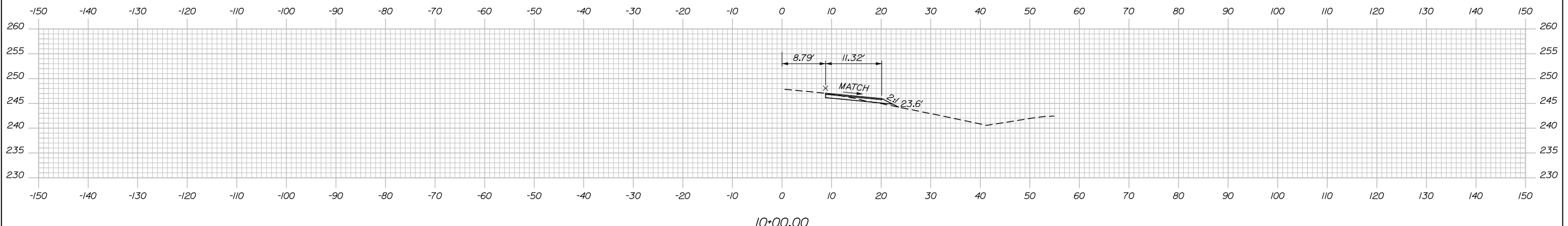
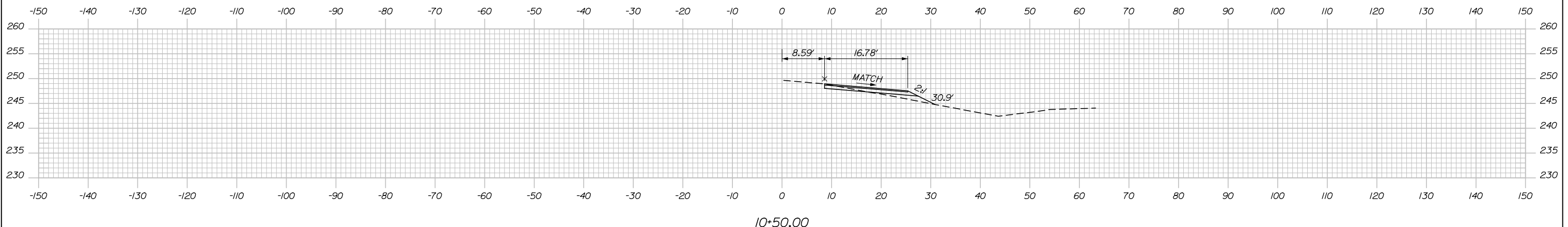
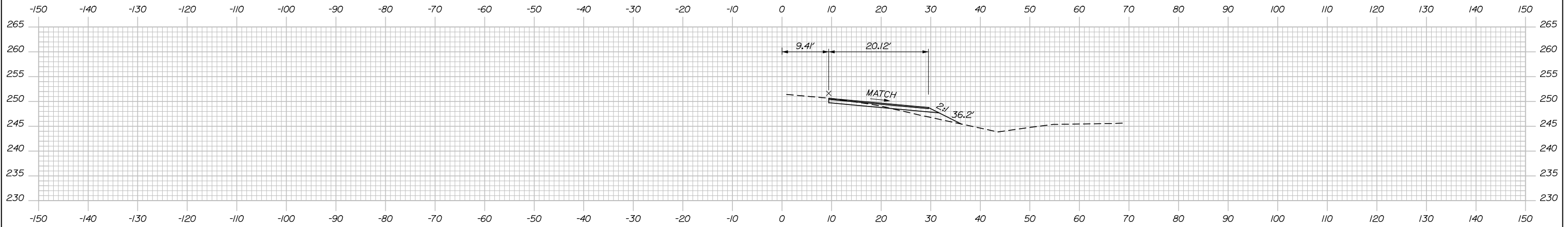
CONTRACT: 2018.17

SHEET NUMBER: XS-01

16 OF 84

Filename: X:Sect - M01.dgn

Date: 5/24/2018



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THE GOLD STAR
MEMORIAL HIGHWAY

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
MOT CROSS SECTIONS
RAMP C - STA. 10+00 TO STA. 11+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

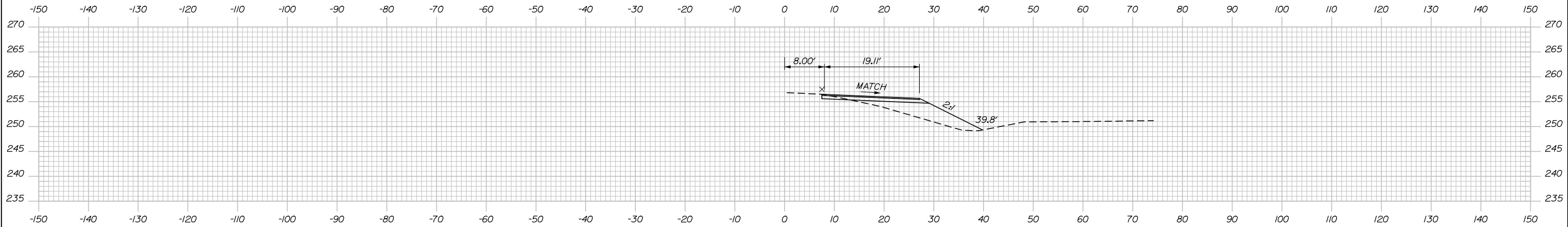
MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

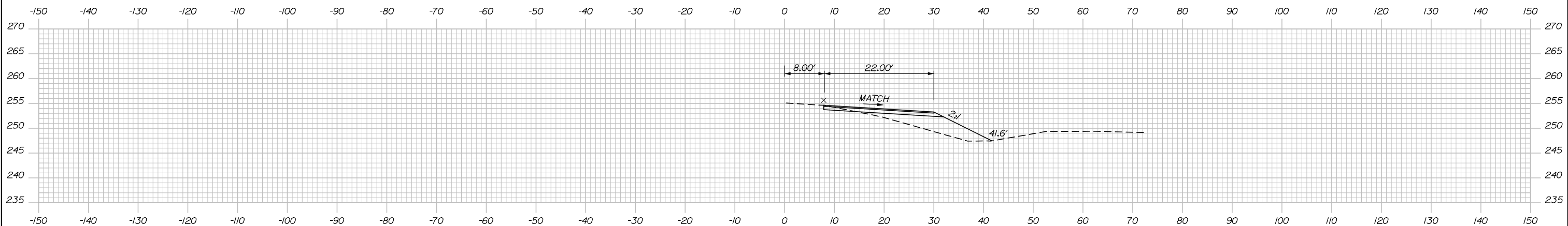
SHEET NUMBER: XS-02

17 OF 84

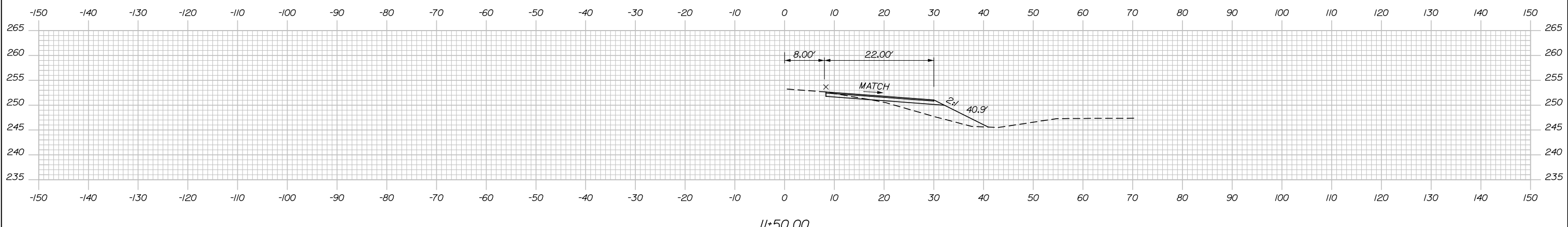
Date: 5/24/2018



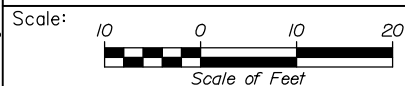
12+50.00



12+00.00



11+50.00



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THE GOLD STAR
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AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP C - STA. 11+50 TO STA. 12+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date	Checked	By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

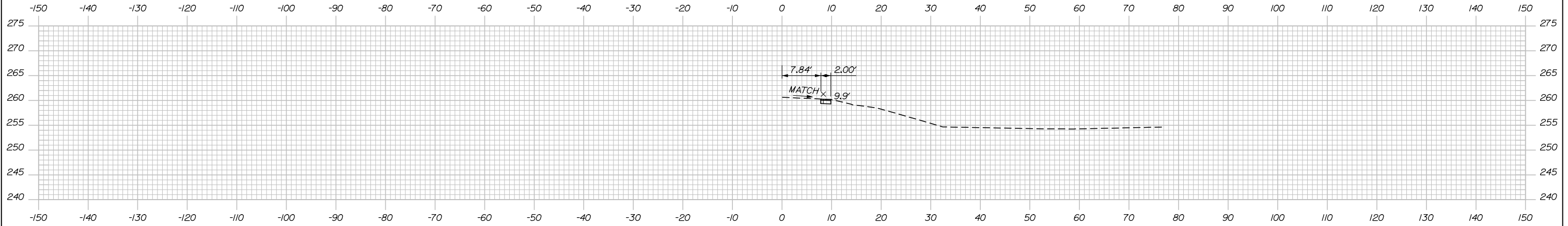
SHEET NUMBER: XS-03

18 OF 84

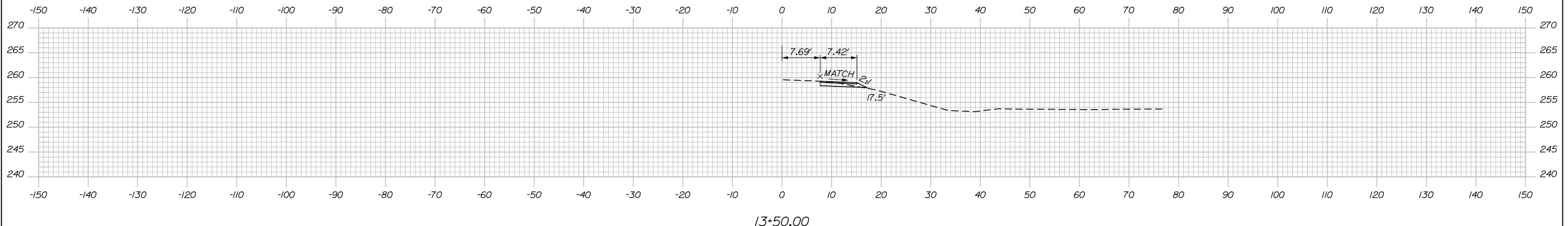
Filename: XSect - MOT.dgn

Date: 5/24/2018

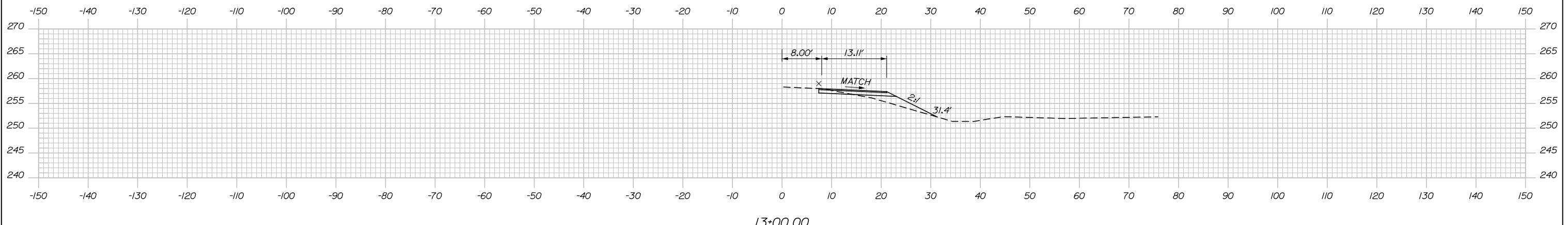
STA. 14+25.00
END TEMPORARY
PAVEMENT WIDENING



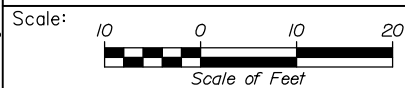
14+00.00



13+50.00



13+00.00



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THE GOLD STAR
MEMORIAL HIGHWAY

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
MOT CROSS SECTIONS
RAMP C - STA. 13+00 TO STA. 14+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date	Checked	By	Date
Designed	CDH	05\18		RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

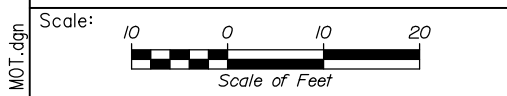
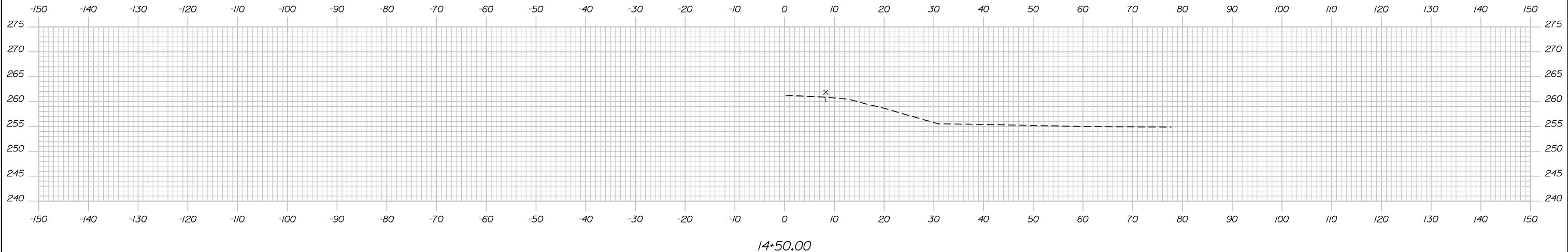
CONTRACT: 2018.17

SHEET NUMBER: XS-04

19 OF 84

Filename: XSect - M0T.dgn

Date: 5/24/2018



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

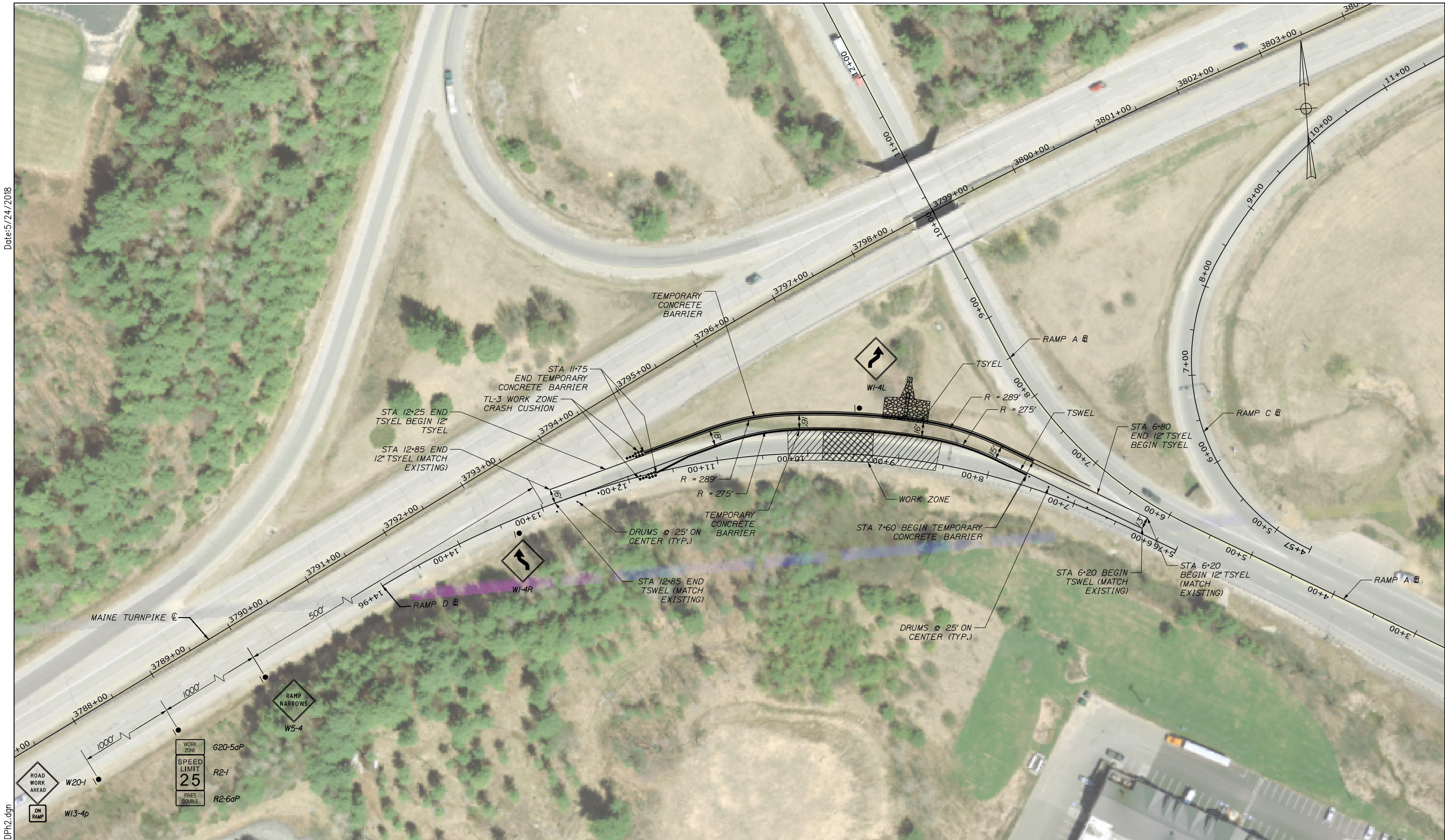
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP C - STA. 14+50 TO STA.14+50

SHEET NUMBER: XS-05
 20 OF 84

CONTRACT: 2018.17

Filename: X\sect - M01.dgn

Date: 5/24/2018



Scale: 50 0 50 100
Scale of Feet

No.	Revision	By	Date

ROAD WORK AHEAD W20-1
 ON RAMP W13-4p
 WORK ZONE G20-5aP
 SPEED LIMIT 25 R2-1
 FINES DOUBLE R2-6aP
 RAMP NARROWS W5-4

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

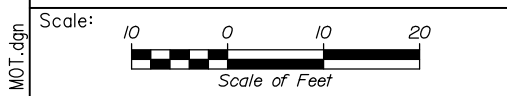
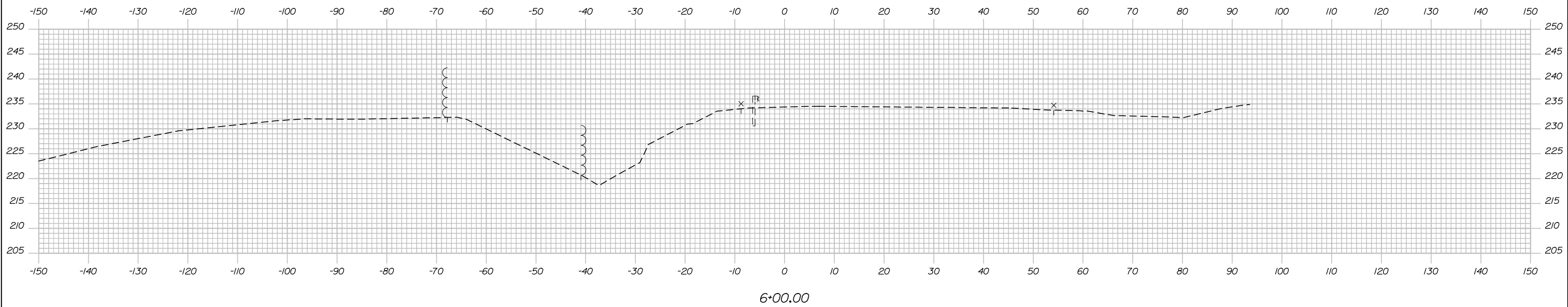
**AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION**
 MAINTENANCE OF TRAFFIC
 RAMP D - PHASE 2

SHEET NUMBER: MT-08
22 OF 84

CONTRACT: 2018.17

Filename: 022_M0T-08_RampDPn2.dgn

Date: 5/24/2018



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

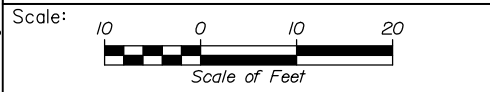
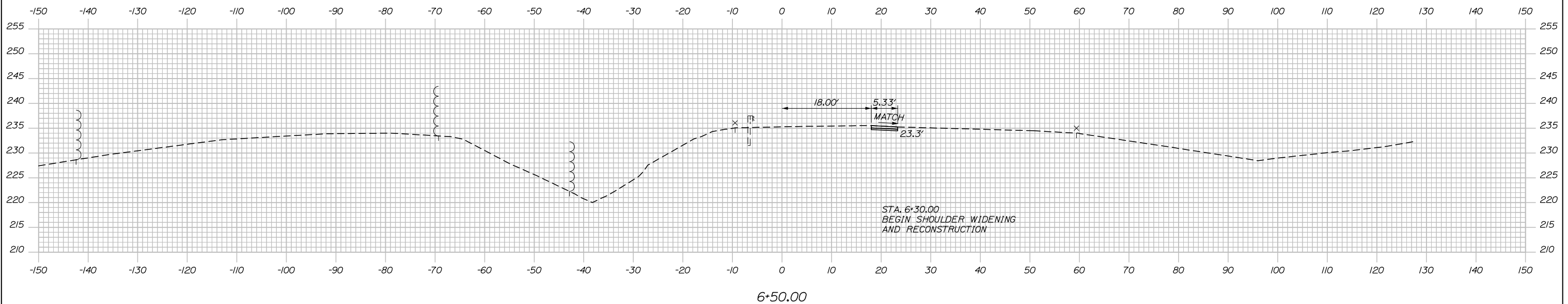
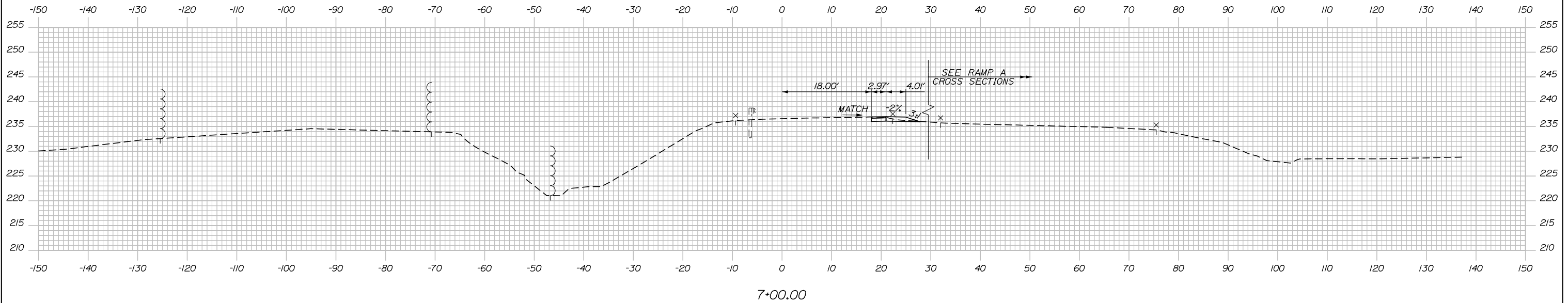
MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP D - STA. 5+76 TO STA.6+00

SHEET NUMBER: XS-06
 CONTRACT: 2018.17
 23 OF 84

Filename: Xsect - M0T.dgn

Date: 5/24/2018



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

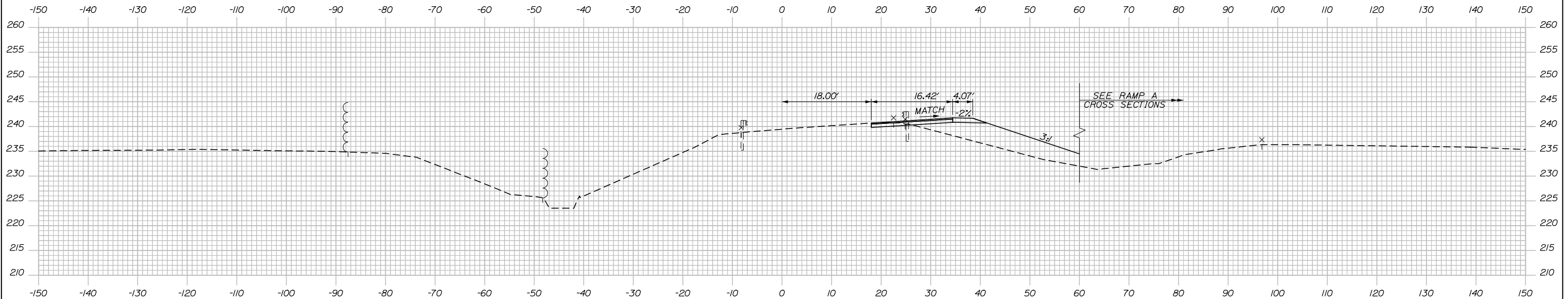
**AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP D - STA. 6+50 TO STA.7+00**

SHEET NUMBER: XS-07
 24 OF 84

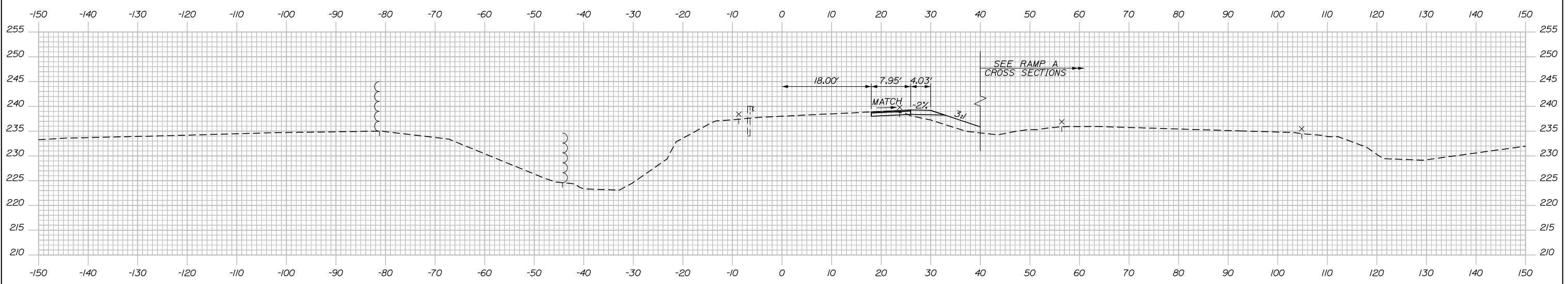
CONTRACT: 2018.17

Filename: Xsect - M0T.dgn

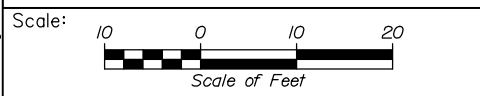
Date: 5/24/2018



8+00.00



7+50.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

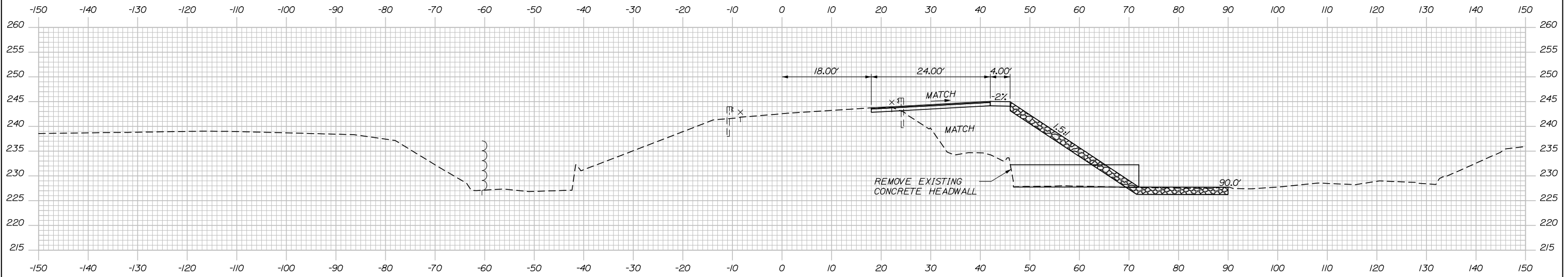
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP D - STA. 7+50 TO STA.8+00

SHEET NUMBER: XS-08
 25 OF 84

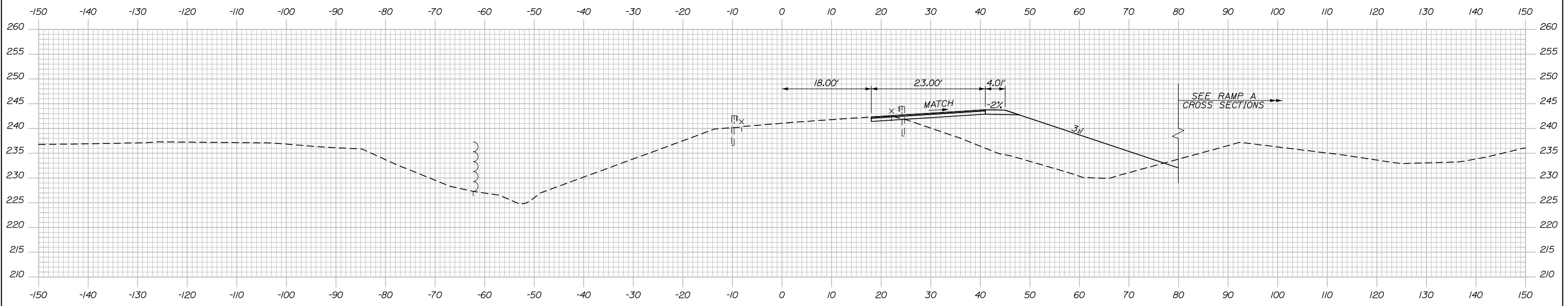
CONTRACT: 2018.17

Filename: XSect - M0T.dgn

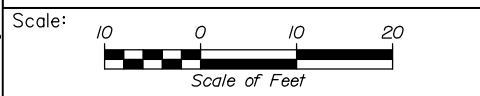
Date: 5/24/2018



9+00.00
 STA. 8+98.03, 46.2' RT. TO STA. 8+98.14, 72.2' RT.
 INSTALL 26' X 54' RCP CLASS V
 RIPRAP APRON



8+50.00
 SEE RAMP A
 CROSS SECTIONS



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date		By	Date
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Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

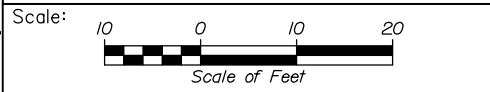
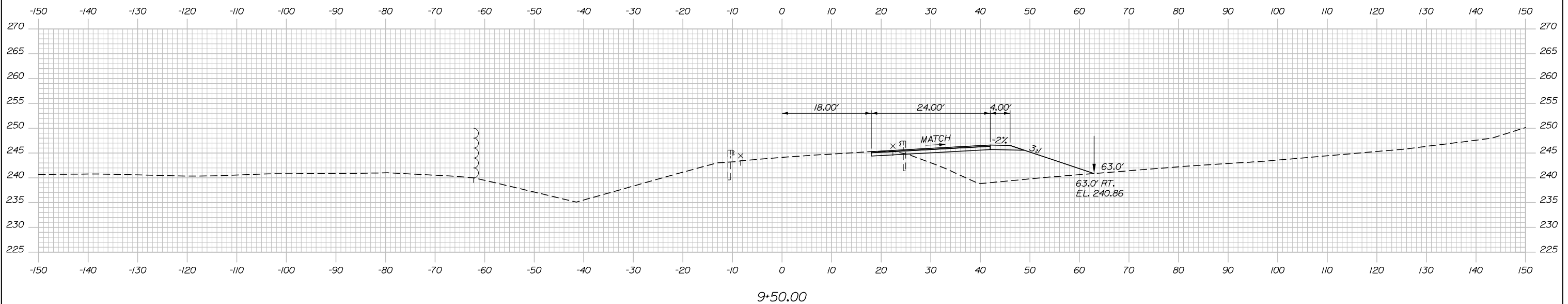
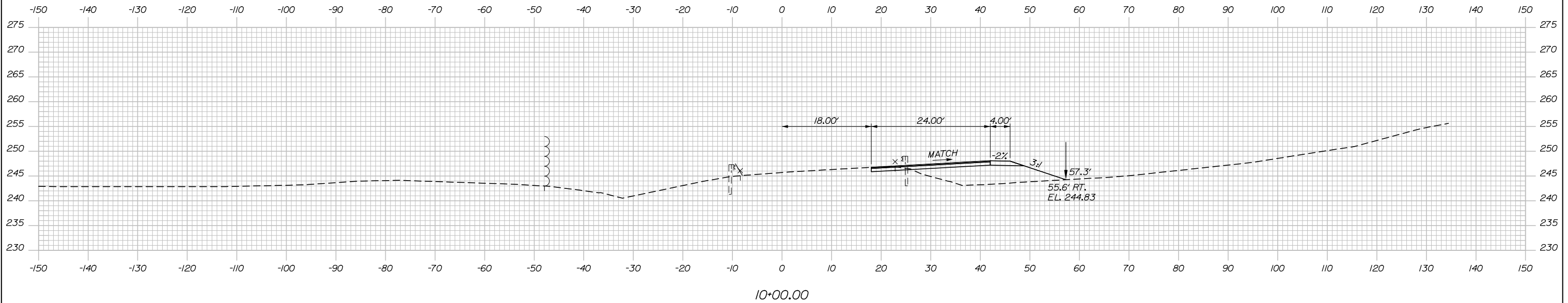
MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP D - STA. 8+50 TO STA.9+00

SHEET NUMBER: XS-09
 CONTRACT: 2018.17
 26 OF 84

Filename: Xsect - MOT.dgn

Date: 5/24/2018



Designed by:


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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

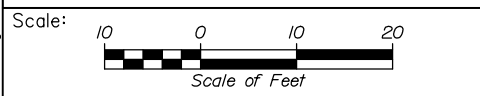
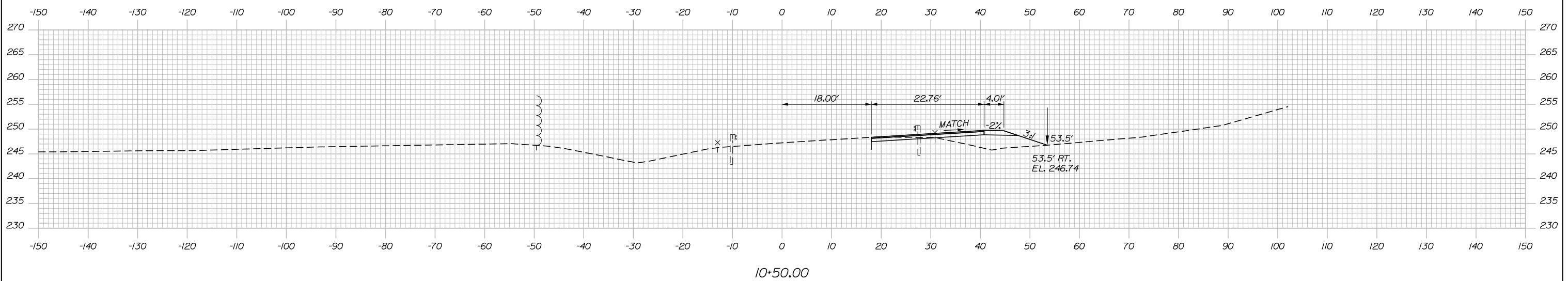
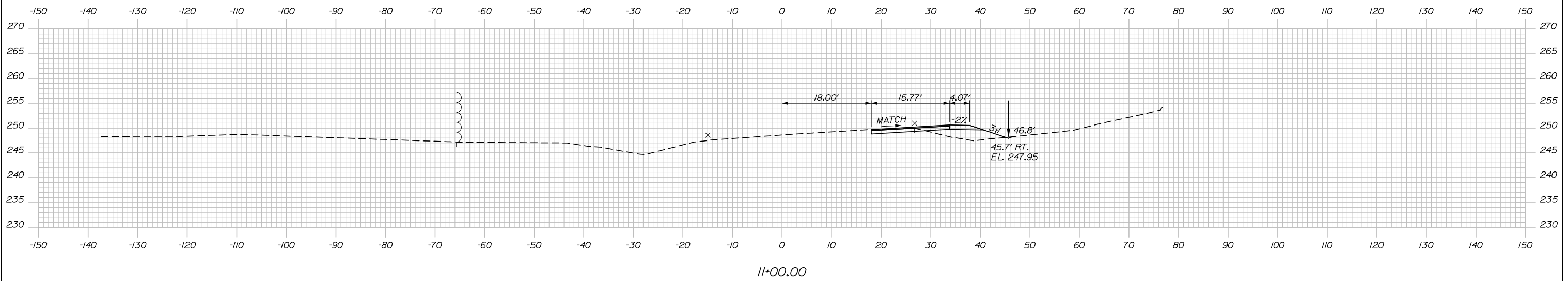
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP D - STA. 9+50 TO STA. 10+00

SHEET NUMBER: XS-10
 27 OF 84

CONTRACT: 2018.17

Filename: XSect - MOT.dgn

Date: 5/24/2018



Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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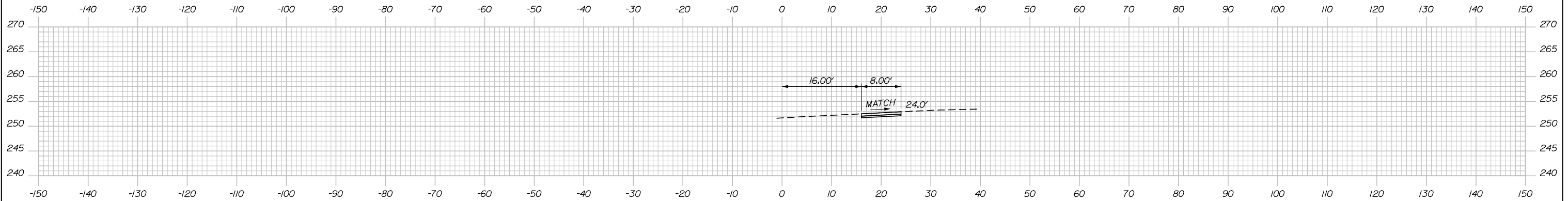
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

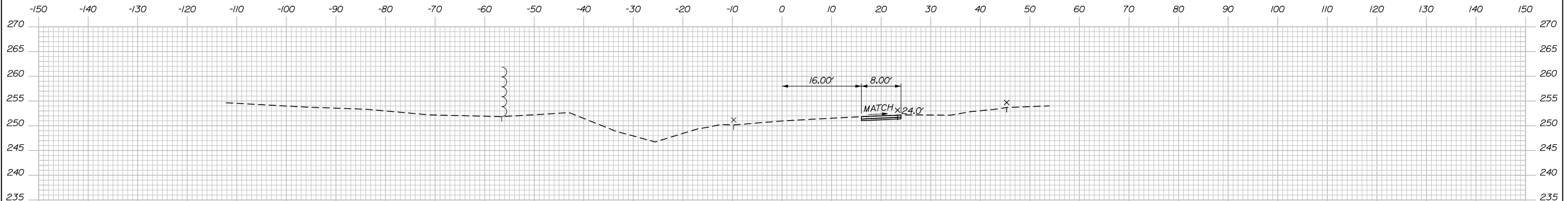
AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
MOT CROSS SECTIONS
RAMP D - STA. 10+50 TO STA. 11+00

Date: 5/24/2018

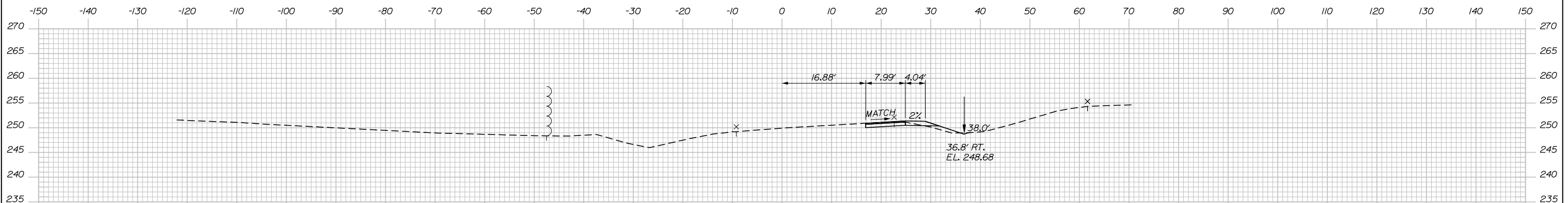
STA. 12+85.00 RT
END SHOULDER WIDENING AND
RECONSTRUCTION



12+50.00



12+00.00



11+50.00



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THE GOLD STAR
MEMORIAL HIGHWAY

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
MOT CROSS SECTIONS
RAMP D - STA. 11+50 TO STA. 12+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

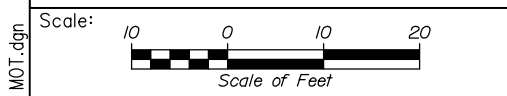
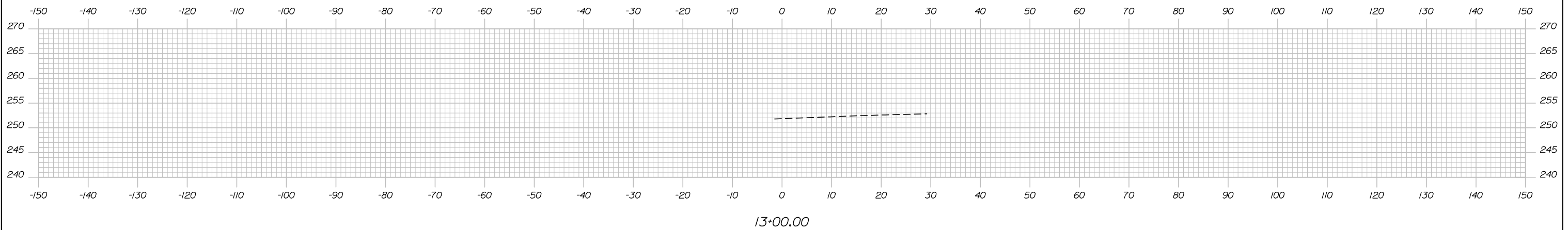
CONTRACT: 2018.17

SHEET NUMBER: XS-12

29 OF 84

Filename: Xsect - M01.dgn

Date: 5/24/2018



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MOT CROSS SECTIONS
 RAMP D - STA. 13+00 TO STA.14+00

SHEET NUMBER: XS-13
 CONTRACT: 2018.17
 30 OF 84

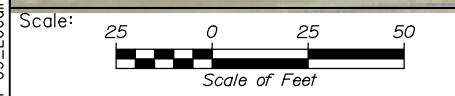
Filename: X\sect - M01.dgn

Date: 5/24/2018



NOTE:
 1. SIGNS SHALL BE IN PLACE FOR ALL MOT PHASES

Filename: 031_MOT-09_LocalRoad.dgn



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date	Checked	By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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 340 County Road, Suite 6-C
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 TEL (207) 774-5155
 FAX (207) 228-0909

**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

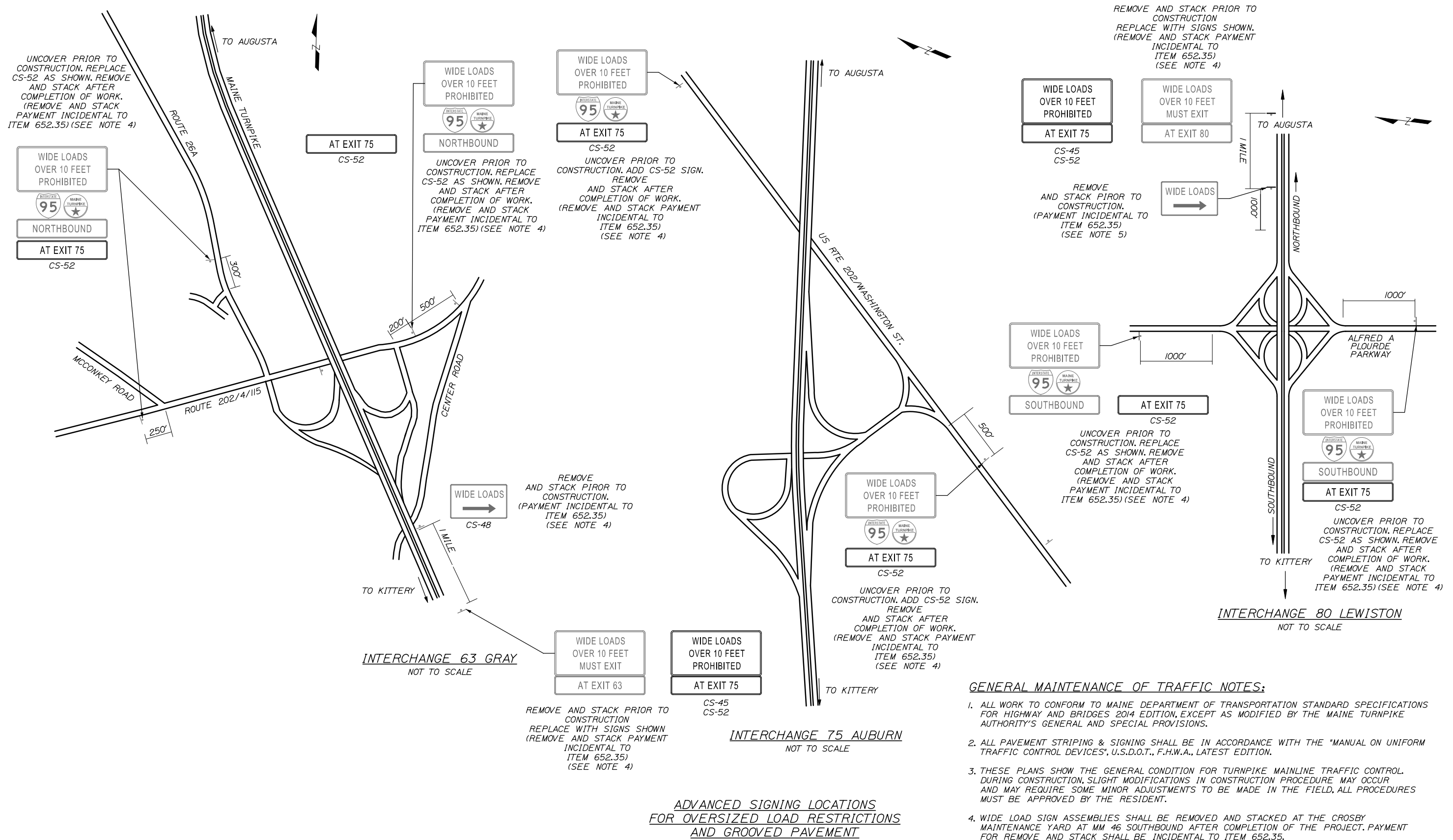
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 MAINTENANCE OF TRAFFIC
 WASHINGTON STREET SIGNAGE

SHEET NUMBER: MT-09
 31 OF 84

CONTRACT: 2018.17

Date: 5/24/2018

Filename: 032_M01-10_WideLoad.dgn



- GENERAL MAINTENANCE OF TRAFFIC NOTES:**
1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES 2014 EDITION, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S GENERAL AND SPECIAL PROVISIONS.
 2. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
 3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL. DURING CONSTRUCTION, SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
 4. WIDE LOAD SIGN ASSEMBLIES SHALL BE REMOVED AND STACKED AT THE CROSBY MAINTENANCE YARD AT MM 46 SOUTHBOUND AFTER COMPLETION OF THE PROJECT. PAYMENT FOR REMOVE AND STACK SHALL BE INCIDENTAL TO ITEM 652.35.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

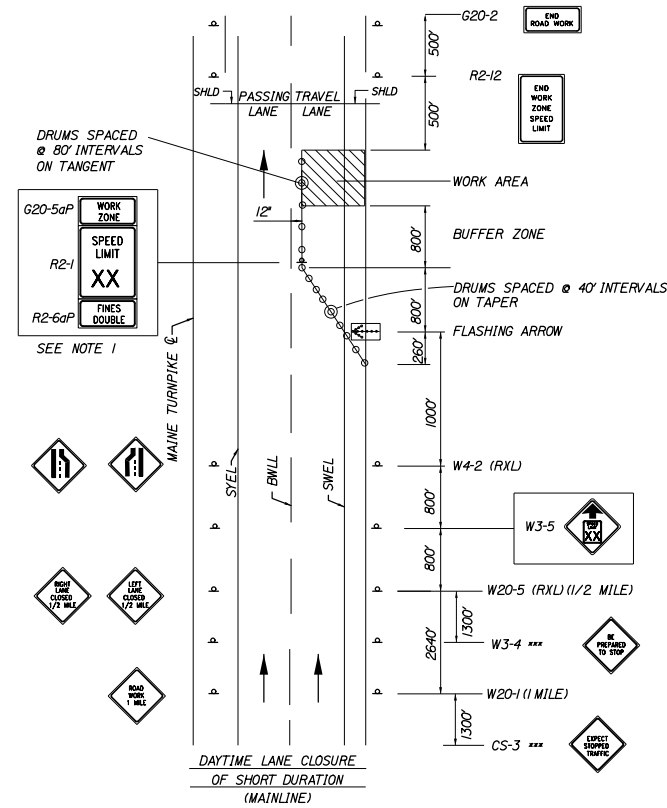
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION

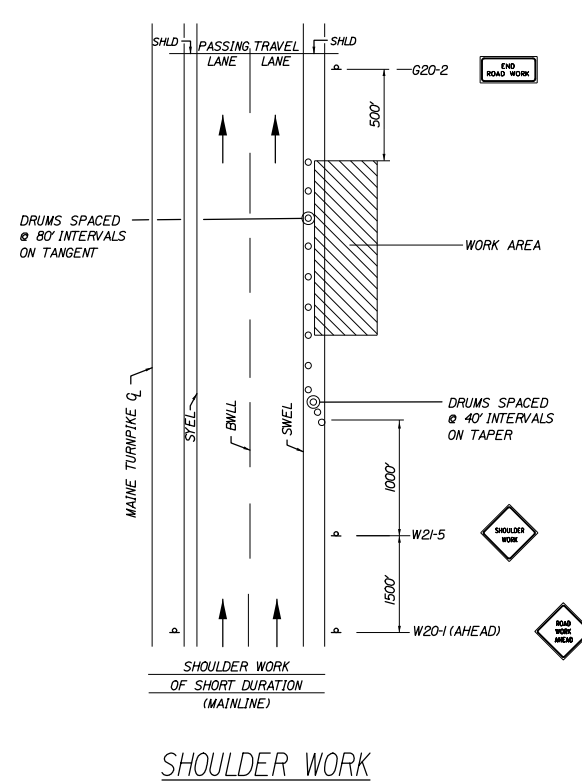
MAINTENANCE OF TRAFFIC
 WIDELoad SIGNAGE

SHEET NUMBER: MT-10
 CONTRACT: 2018.17
 32 OF 84



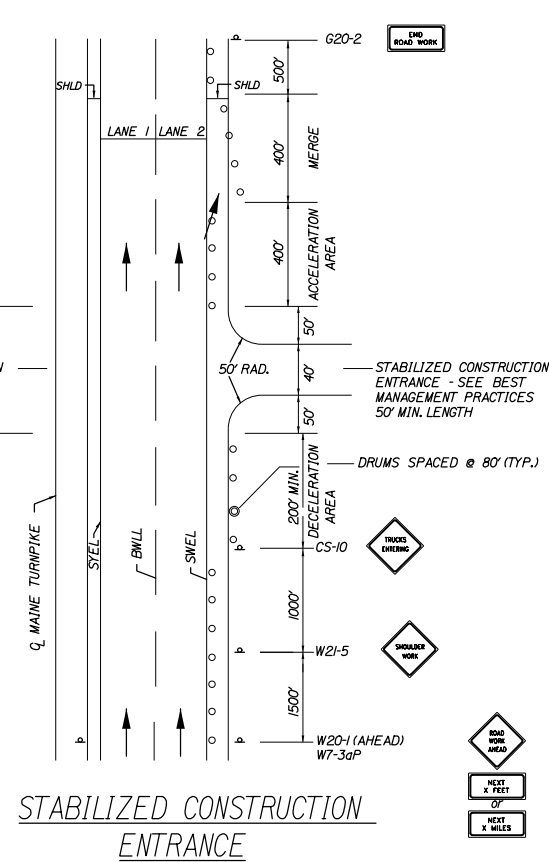
SINGLE LANE CLOSURE - SIGNS ON EASELS

1. FOR EASEL SET UP ONLY, THIS SIGN IS NOT BRACKETED. ONE SIGN ASSEMBLY IS PLACED AT THE END OF THE TAPER.
2. SIGNS DESIGNATED WITH *** SHALL BE USED DURING STOPPAGES OF TRAFFIC.
3. 1 ADDITIONAL LANE CLOSURE PACKAGE IS INCLUDED IN QUANTITIES FOR SETUP OF RAMP A OR D CLOSURE IF RAMP B OR C CLOSURE IS ALREADY IN PLACE.



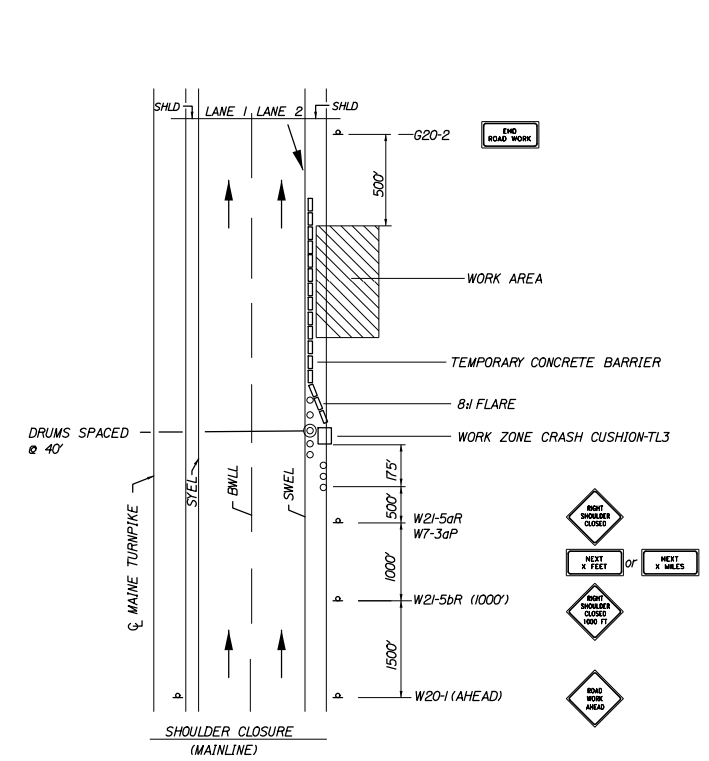
SHOULDER WORK

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.



STABILIZED CONSTRUCTION ENTRANCE

1. SIGN G20-2 IS NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.



SHOULDER CLOSURE

1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.
2. ONLY ONE SHOULDER CLOSURE PERMITTED PER BOUND AT ONE TIME.

GENERAL MAINTENANCE OF TRAFFIC NOTES:

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, 2014, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
2. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION. NOTE THERE IS A 2009 EDITION OF MUTCD.
3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL AND DEVICES. DURING CONSTRUCTION, SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
4. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING EXISTING PAVEMENT MARKING, OR 627.731 - TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE.
5. TEMPORARY PAVEMENT MARKINGS ON TEMPORARY PAVEMENT MAY BE PAINTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.681 - TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, YELLOW OR WHITE, UNLESS OTHERWISE NOTED.
6. TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SHALL BE TAPE. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.73 - TEMPORARY 6 INCH PAVEMENT MARKING TAPE.
7. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION.
8. REMOVAL OF TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE SHALL BE DONE IN SUCH A MANNER TO REMOVE AS LITTLE PAVEMENT AS POSSIBLE.
9. "TRUCKS ENTERING" SIGN SHALL ALSO BE USED AT LOCATIONS WHERE TRUCKS ENTER THE WORK ZONE FROM THE TRAVEL LANE.
10. THESE PLANS SHOW THE GENERAL LAYOUT OF CONSTRUCTION ZONE SIGNING; ALL LOCATIONS REQUIRING SIGNS MAY NOT BE SHOWN. FINAL CONTENT AND LAYOUT OF SIGNS MUST BE SUBMITTED TO AND APPROVED BY THE RESIDENT.

CONSTRUCTION PHASING NOTES:

1. THE CONTRACTOR IS PERMITTED TO CONSTRUCT THE RAMP AND TOLL SYSTEM UPDATES INDIVIDUALLY OR IN SERIES.
2. TRAFFIC ON RAMPS A, B, C, AND D SHALL BE MAINTAINED AT ALL TIMES, EITHER ON THE EXISTING RAMP OR ON A TEMPORARY RAMP.
3. IF 14'-6" CLEAR WIDTH BETWEEN TRAFFIC CONTROL DEVICES CANNOT BE MAINTAINED, THE CONTRACTOR SHALL PROVIDE A WIDE LOAD DETOUR ROUTE. WIDE LOAD RESTRICTION SIGNAGE SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF RAMP WIDTH RESTRICTION.

ABBREVIATIONS FOR ALL M.O.T. PLANS

BWLL = BROKEN WHITE LANE LINE
 SWEL = SOLID WHITE EDGE LINE
 SYEL = SOLID YELLOW EDGE LINE
 TBWLL = TEMPORARY BROKEN WHITE LANE LINE
 TSWEL = TEMPORARY SOLID WHITE EDGE LINE
 TSYEL = TEMPORARY SOLID YELLOW EDGE LINE

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM UPGRADES AND STREAM RELOCATION

MAINTENANCE OF TRAFFIC DETAILS AND GENERAL NOTES

SHEET NUMBER: MT-11

CONTRACT: 2018.17

33 OF 84

Date: 5/24/2018

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W20-1	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO *2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT*			6	ORANGE	BLACK		16.00 (64.00)	
W5-4	48"	48"					3	ORANGE	BLACK		16.00 (48.00)	
G20-2	48"	24"					5	SHALL CONFORM TO *2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT*			8.00 (24.00)	
G20-5aP	48"	24"					3				8.00 (24.00)	
W1-4L	48"	48"					2	ORANGE	BLACK		16.00 (32.00)	
W1-4R	48"	48"					2	ORANGE	BLACK		16.00 (32.00)	
W13-4p	24"	24"					4	ORANGE	BLACK		4.00 (16.00)	
W24-1R	48"	48"					2	ORANGE	BLACK		16.00 (32.00)	
W24-1L	48"	48"					2	ORANGE	BLACK		16.00 (32.00)	
R2-1	48"	60"					3				20.00 (60.00)	
R2-6aP	48"	24"					3	SHALL CONFORM TO *2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT*			8.00 (24.00)	
R2-12	48"	60"					3				20.00 (60.00)	

NOTES:
1. QUANTITIES ASSUME RAMP WORK PERFORMED CONCURRENTLY. IF RAMP WORK PERFORMED SEQUENTIALLY, SIGN QUANTITIES SHALL BE ADJUSTED.

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W20-4	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO *2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT*			2	ORANGE	BLACK		16.00 (32.00)	
W20-7	48"	48"					2	ORANGE	BLACK		16.00 (32.00)	
W21-5	48"	48"					2	ORANGE	BLACK		16.00 (32.00)	
CS-52	96"	18"		8"	6"		8	ORANGE	BLACK		12.00 (96.00)	
CS-46	96"	48"		8" 8" 8"	6" 6" 6"		2	ORANGE	BLACK		32.00 (64.00)	

Filename: 034_SignSummary.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
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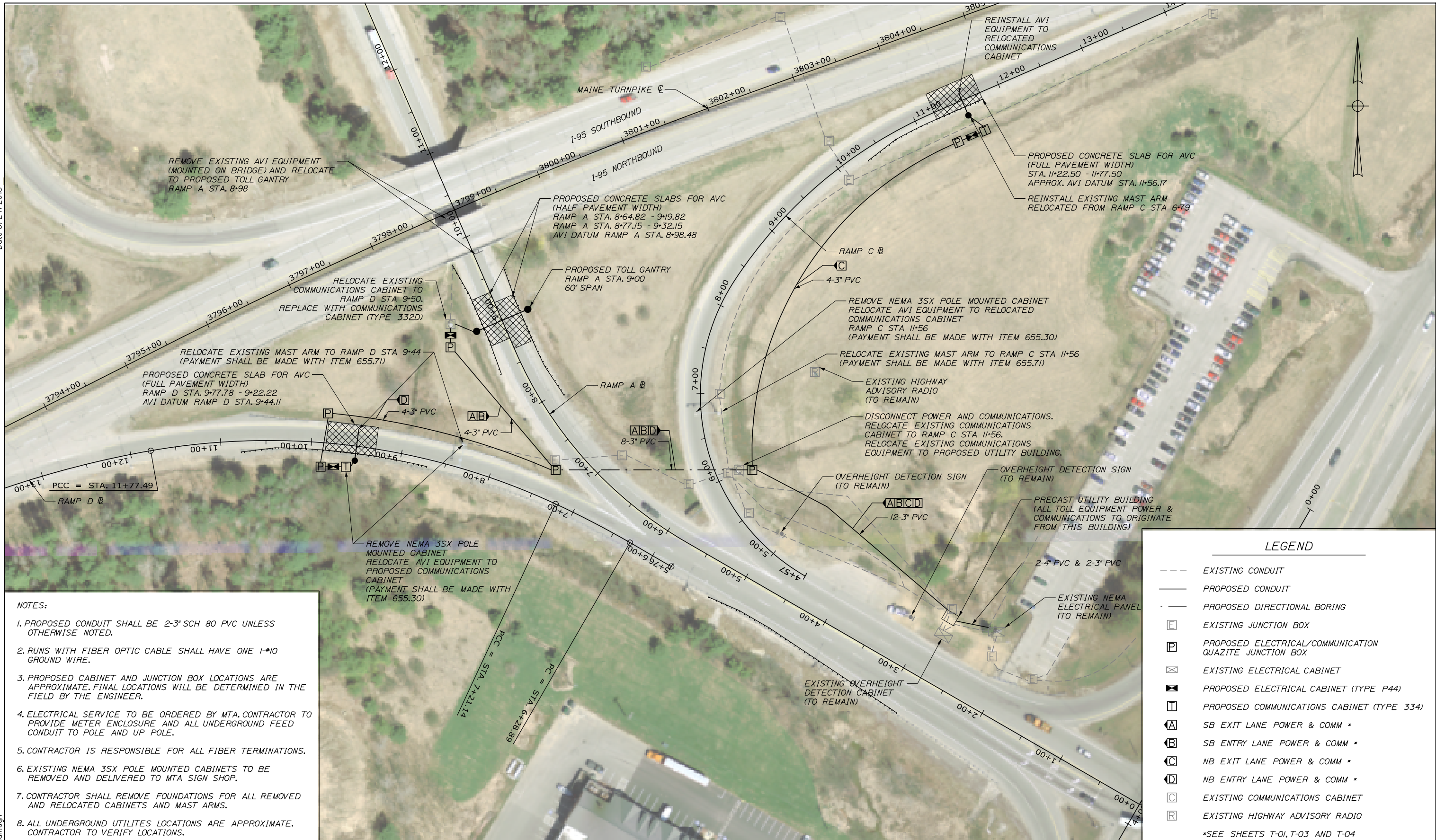
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM UPGRADES AND STREAM RELOCATION
MAINTENANCE OF TRAFFIC SIGN SUMMARY

SHEET NUMBER: MT-12
CONTRACT: 2018.17
34 OF 84

Date: 5/24/2018



- NOTES:
1. PROPOSED CONDUIT SHALL BE 2-3" SCH 80 PVC UNLESS OTHERWISE NOTED.
 2. RUNS WITH FIBER OPTIC CABLE SHALL HAVE ONE 1-#10 GROUND WIRE.
 3. PROPOSED CABINET AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 4. ELECTRICAL SERVICE TO BE ORDERED BY MTA. CONTRACTOR TO PROVIDE METER ENCLOSURE AND ALL UNDERGROUND FEED CONDUIT TO POLE AND UP POLE.
 5. CONTRACTOR IS RESPONSIBLE FOR ALL FIBER TERMINATIONS.
 6. EXISTING NEMA 3SX POLE MOUNTED CABINETS TO BE REMOVED AND DELIVERED TO MTA SIGN SHOP.
 7. CONTRACTOR SHALL REMOVE FOUNDATIONS FOR ALL REMOVED AND RELOCATED CABINETS AND MAST ARMS.
 8. ALL UNDERGROUND UTILITIES LOCATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATIONS.

LEGEND

---	EXISTING CONDUIT
—	PROPOSED CONDUIT
—	PROPOSED DIRECTIONAL BORING
□	EXISTING JUNCTION BOX
□	PROPOSED ELECTRICAL/COMMUNICATION QUAZITE JUNCTION BOX
□	EXISTING ELECTRICAL CABINET
□	PROPOSED ELECTRICAL CABINET (TYPE P44)
□	PROPOSED COMMUNICATIONS CABINET (TYPE 334)
□	SB EXIT LANE POWER & COMM *
□	SB ENTRY LANE POWER & COMM *
□	NB EXIT LANE POWER & COMM *
□	NB ENTRY LANE POWER & COMM *
□	EXISTING COMMUNICATIONS CABINET
□	EXISTING HIGHWAY ADVISORY RADIO

*SEE SHEETS T-01, T-03 AND T-04

Scale: 50 0 50 100
Scale of Feet

No.	Revision	By	Date


Designed by:

HNTB

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	By	Date		By	Date
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Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

**AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION**
 TOLL SYSTEM
 INFRASTRUCTURE IMPROVEMENTS

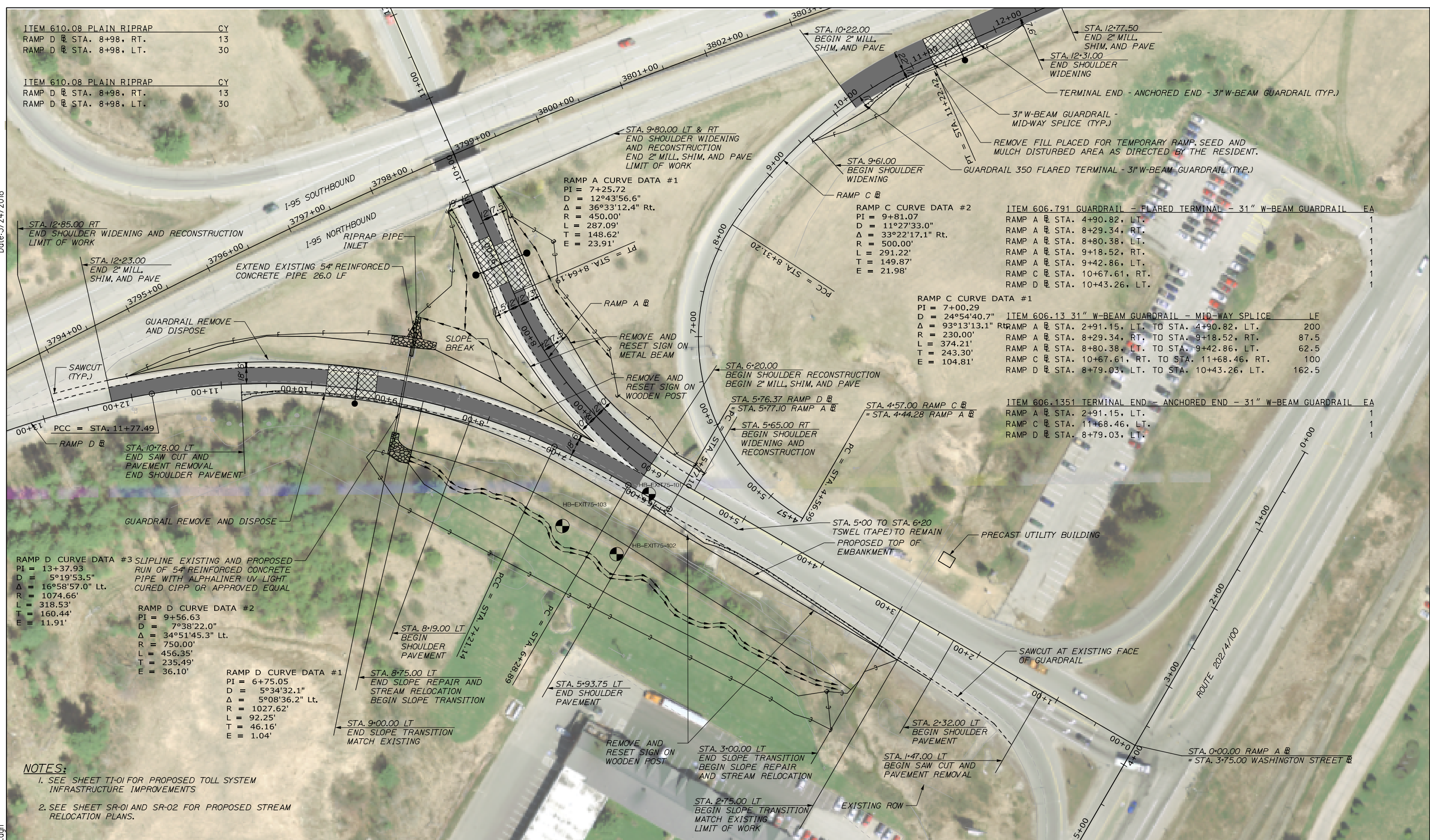
SHEET NUMBER: TI-01
35 OF 84

CONTRACT: 2018.17

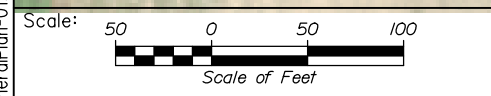
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ITEM 610.08 PLAIN RIPRAP	CY
RAMP D @ STA. 8+98, RT.	13
RAMP D @ STA. 8+98, LT.	30
ITEM 610.08 PLAIN RIPRAP	CY
RAMP D @ STA. 8+98, RT.	13
RAMP D @ STA. 8+98, LT.	30

Date: 5/24/2018



NOTES:
 1. SEE SHEET T1-01 FOR PROPOSED TOLL SYSTEM INFRASTRUCTURE IMPROVEMENTS
 2. SEE SHEET SR-01 AND SR-02 FOR PROPOSED STREAM RELOCATION PLANS.



Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
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**THE GOLD STAR
MEMORIAL HIGHWAY**

**AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION**

GENERAL PLAN

MTA PROJECT MANAGER: William Yates

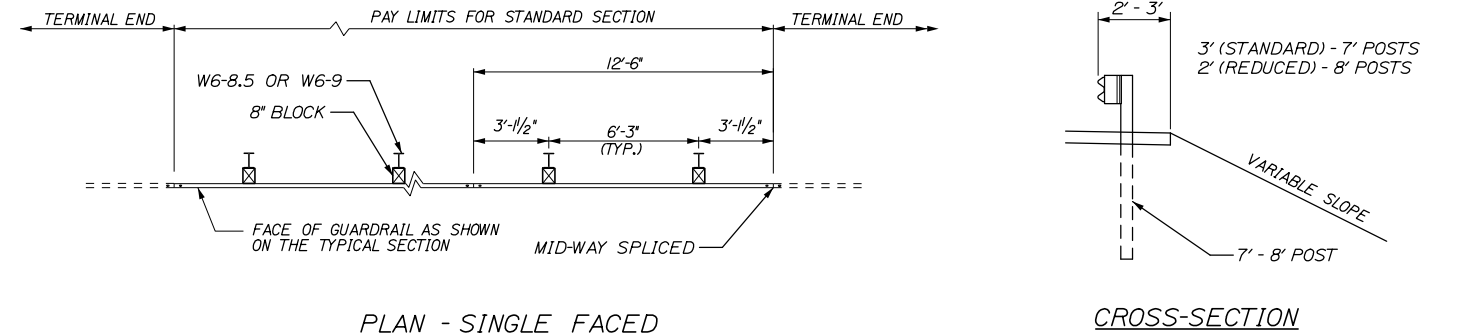
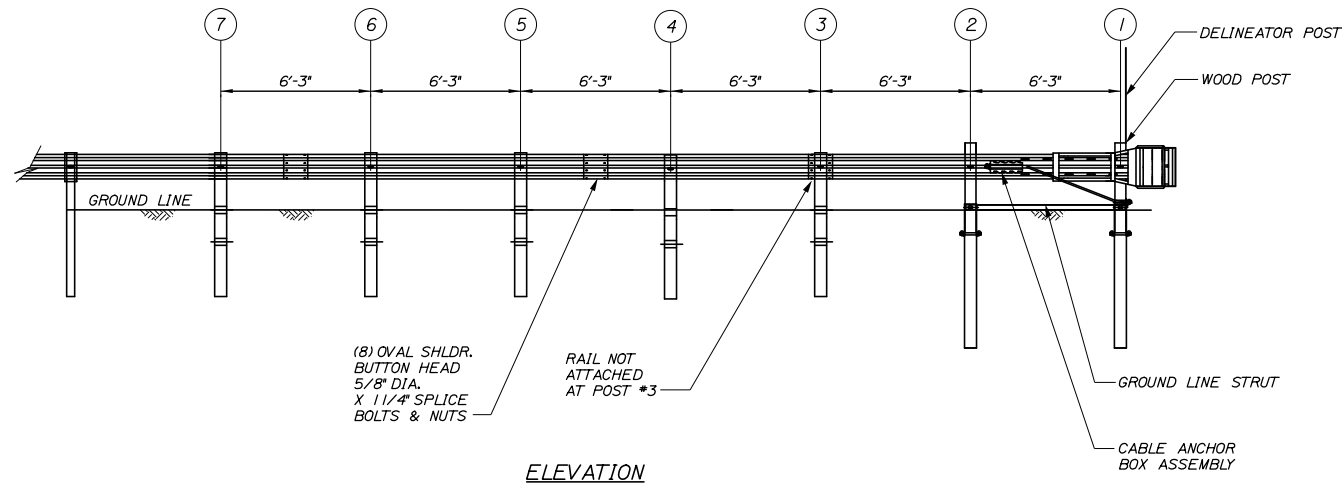
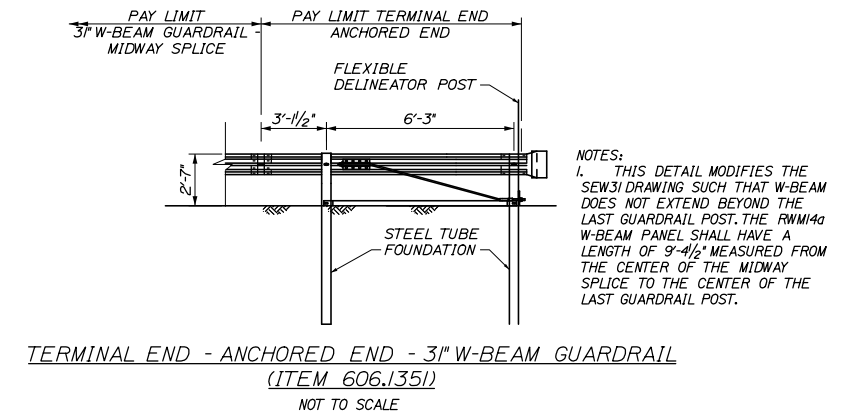
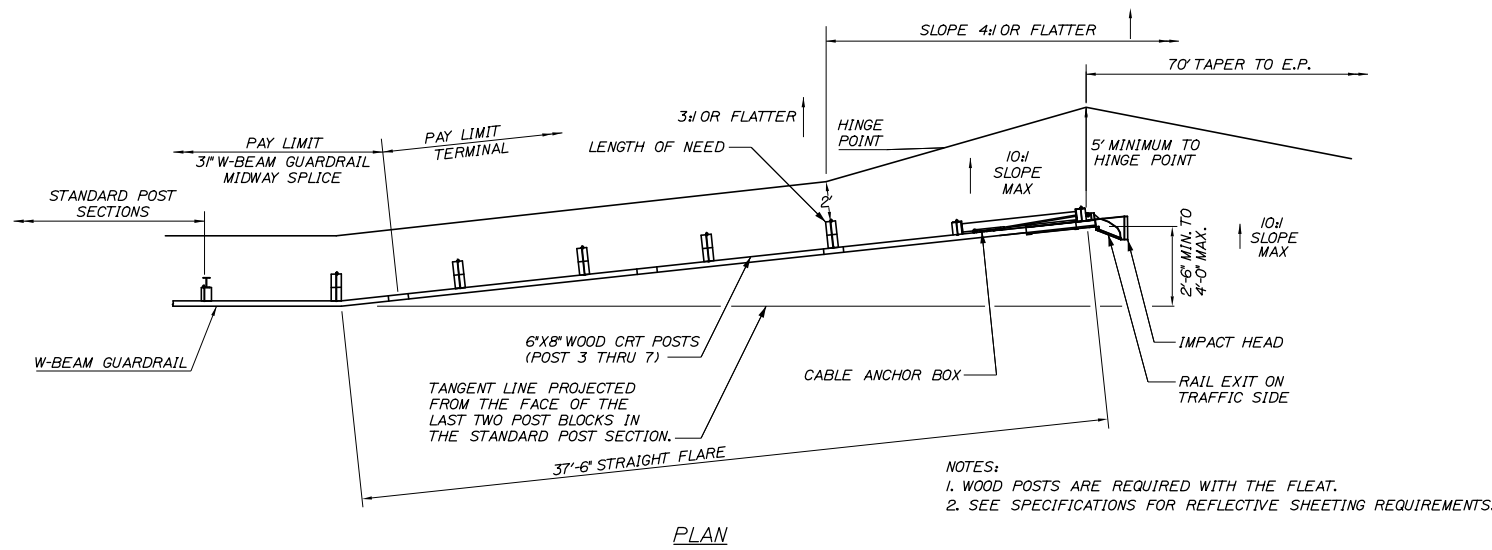
CONTRACT: 2018.17

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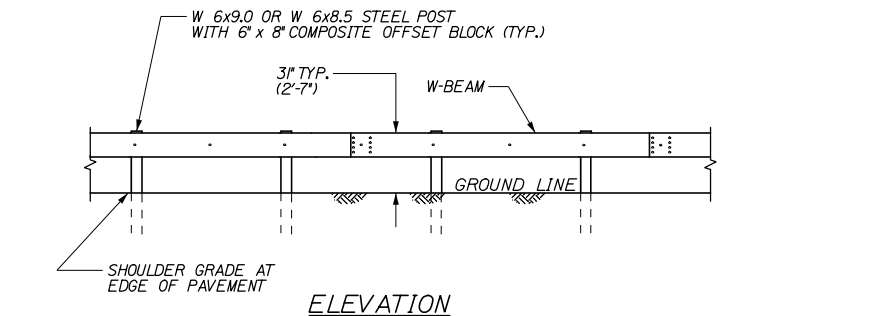
36 OF 84

Filename: 036_GeneralPlan-01.dgn

Date: 5/24/2018



GUARDRAIL 350 FLARED TERMINAL - 3\"/>



3\"/>

GENERAL GUARDRAIL INSTALLATION NOTE:

1. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION OF ALL GUARDRAIL COMPONENTS TO BE INSTALLED. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY CONFLICTS OR IRREGULARITIES BETWEEN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASH END TREATMENT ON ALL GUARDRAIL ENDS PRIOR TO THE REMOVAL OF ANY MOT FEATURES.
3. GUARDRAIL HEIGHT SHALL BE 31" ± 1/2". GUARDRAIL HEIGHT SHALL BE MEASURED AT FINISHED GRADE AT FACE OF RAIL.
4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CUT BOLTS, DISCARD PARTS, TRASH, PAVEMENT DEBRIS, ETC., AFTER COMPLETING THE GUARDRAIL INSTALLATION.
5. CONNECTION FOR PROPOSED RAIL TO EXISTING RAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.

Scale: NOT TO SCALE				
No.	Revision	By	Date	

Designed by:				
HNTB				
CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.				
	By	Date	By	Date
Designed	EDD	05\18	Checked	CDH 05\18
Drawn	EDD	05\18	In Charge of	RAL 05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION

GUARDRAIL DETAILS

SHEET NUMBER: BAR-01
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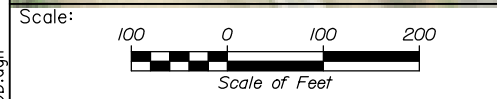
CONTRACT: 2018.17

Date: 5/24/2018



LEGEND
 EXIT 75 CONTRACT LIMIT OF DISTURBANCE (2.94 ACRES)

NOTE:
 1. THE CONTRACT LIMITS OF DISTURBANCE FOR EXIT 25 IS 0.25 ACRES AND FOR EXIT 19 IS 0.25 ACRES. AN ADDITIONAL 1.00 ACRE IS ADDED TO THE LIMITS OF DISTURBANCE FOR CONTRACTOR LAYDOWN AREA. THE TOTAL LIMITS OF DISTURBANCE FOR THE CONTRACT IS 4.44 ACRES



Designed by:

HNTB

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM UPGRADES AND STREAM RELOCATION

LIMIT OF DISTURBANCE PLAN

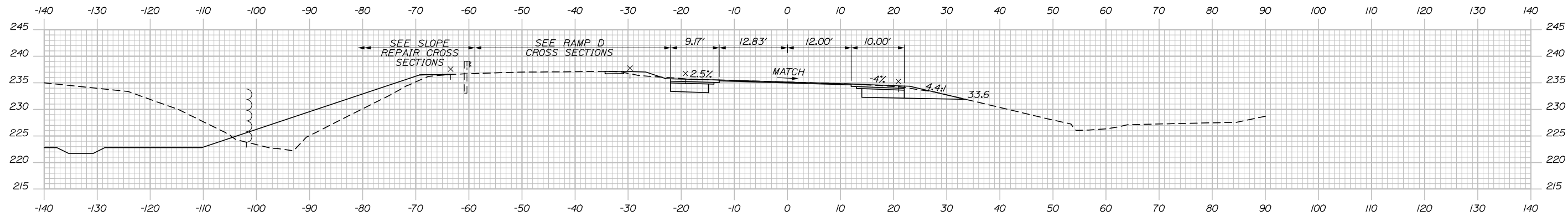
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CONTRACT: 2018.17

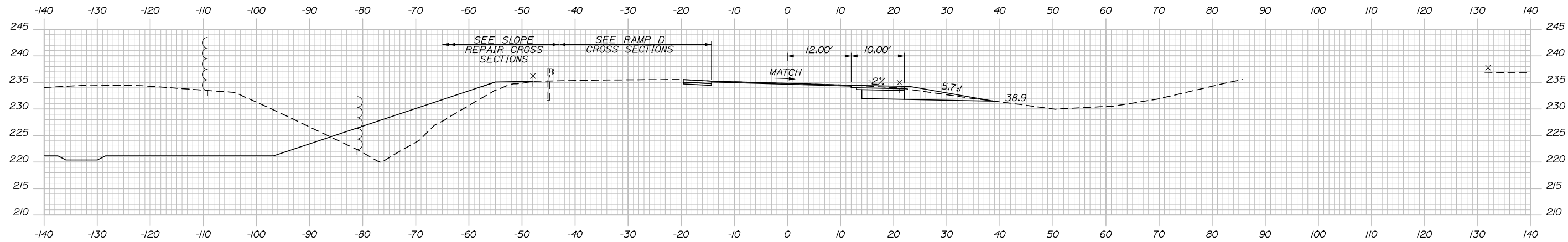
39 OF 84

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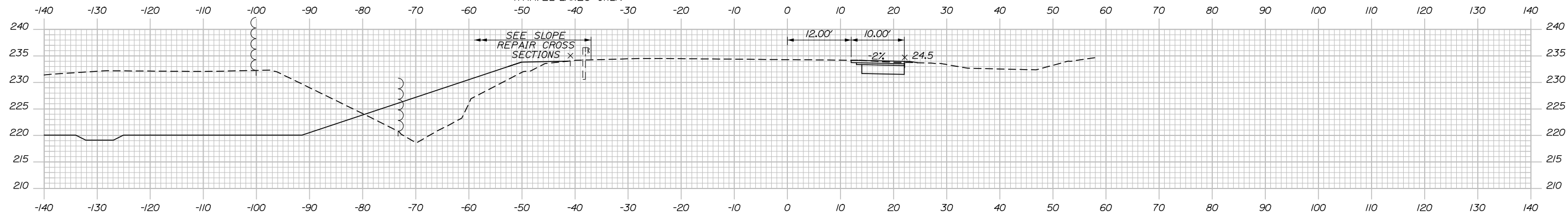
Date: 5/24/2018



7+00.00



6+50.00

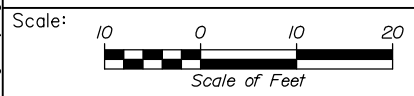


6+00.00

STA. 6+20.00
 BEGIN SHOULDER WIDENING
 AND RECONSTRUCTION
 BEGIN 2" MILL, SHIM, AND PAVE
 (TRAVEL LANES ONLY)

FOR STA. 1+00 TO STA. 6+00
 SEE SLOPE REPAIR CROSS
 SECTIONS

STA. 5+65.00 RT
 BEGIN SHOULDER WIDENING
 AND RECONSTRUCTION



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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 CROSS SECTIONS
 RAMP A - STA. 6+00 TO STA. 7+00

SHEET NUMBER: XS-14
 CONTRACT: 2018.17
 40 OF 84

Filename: XSect - Highway.dgn

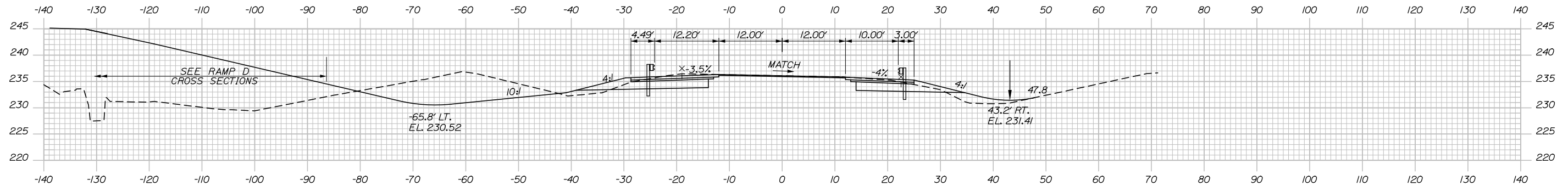
Date: 5/24/2018

STA. 8+83.50, 22' LT. TO STA. 9+39.75, 22.0' LT. INSTALL 56.5 LF
3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS, 8'
OFFSET BLOCKS, SINGLE FACED)

STA. 8+80.38, 22.2' LT. TO STA. 8+83.50, 22' LT. INSTALL 3 LF
3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS,
8" OFFSET BLOCKS, SINGLE FACED)

STA. 8+77.15, LT. TO STA. 9+32.15, LT.
INSTALL CONCRETE SLAB FOR AVC

STA. 8+64.82, RT. TO STA. 9+19.82, RT.
INSTALL CONCRETE SLAB FOR AVC

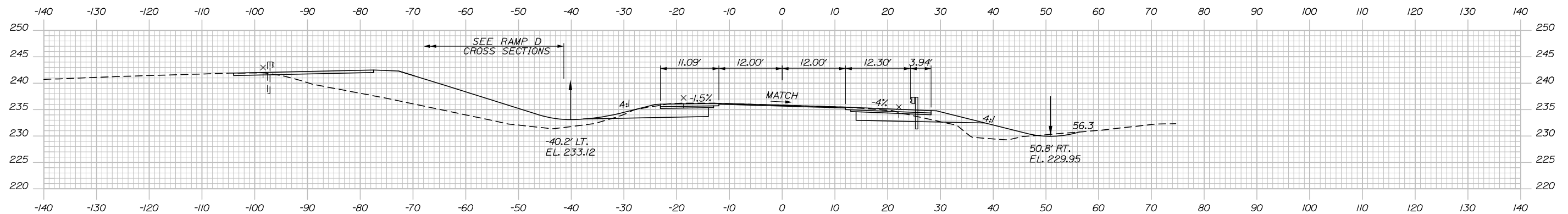


STA. 8+47.00, 24.5' LT. TO STA. 8+80.38, 22.2' LT.
INSTALL GUARDRAIL - FLARED TERMINAL - 3" W-BEAM GUARDRAIL

8+50.00

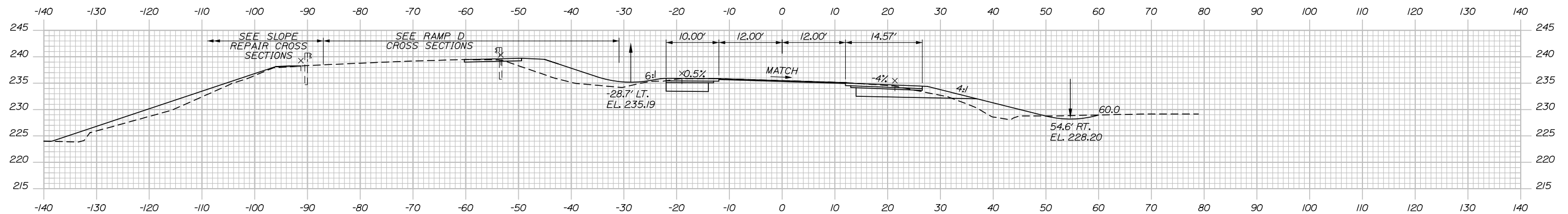
STA. 8+29.34, 22.3' RT. TO STA. 8+32.61, 22' RT. INSTALL 3 LF
3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS,
8" OFFSET BLOCKS, SINGLE FACED)

STA. 8+32.61, 22' RT. TO STA. 9+15.40, 22' RT. INSTALL 81.5 LF
3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS,
8" OFFSET BLOCKS, SINGLE FACED)

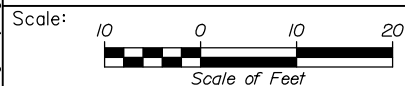


8+00.00

STA. 7+93.14, 24.5' RT. TO STA. 8+29.34, 22.3' RT.
INSTALL GUARDRAIL - FLARED TERMINAL - 3" W-BEAM GUARDRAIL



7+50.00



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THE GOLD STAR
MEMORIAL HIGHWAY

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
CROSS SECTIONS
RAMP A - STA. 7+50 TO STA. 8+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	TJW	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

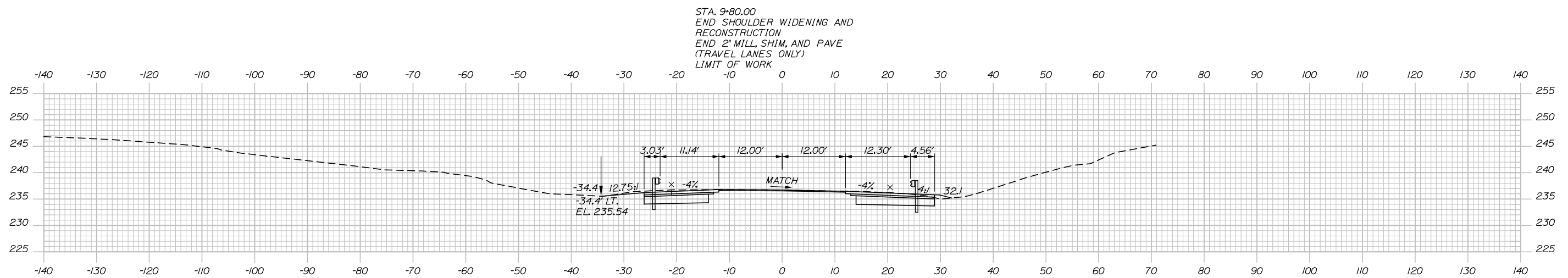
CONTRACT: 2018.17

SHEET NUMBER: XS-15

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Filename: X:Sect - Highway.dgn

Date: 5/24/2018



STA. 9+80.00
 END SHOULDER WIDENING AND
 RECONSTRUCTION
 END 2" MILL, SHIM, AND PAVE
 (TRAVEL LANES ONLY)
 LIMIT OF WORK

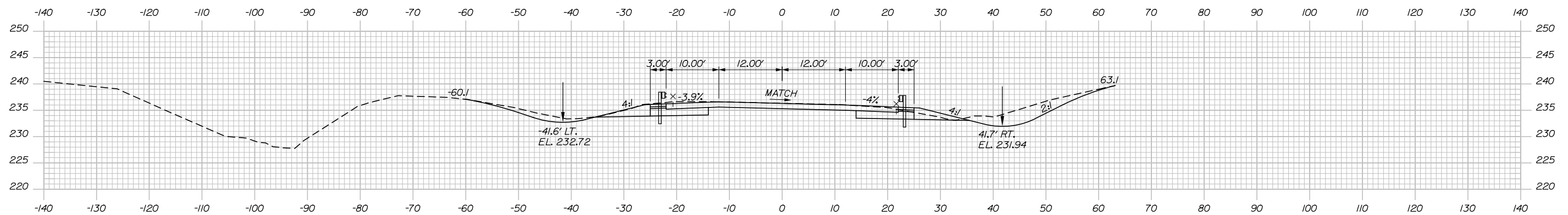
STA. 9+42.86, 22.3' RT. TO STA. 9+77.04, 26' RT.
 INSTALL GUARDRAIL - FLARED TERMINAL - 3" W-BEAM GUARDRAIL

STA. 9+39.75, 22.0' LT. TO STA. 9+42.86, 22.3' LT. INSTALL 3 LF 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS, 8' OFFSET BLOCKS, SINGLE FACED)

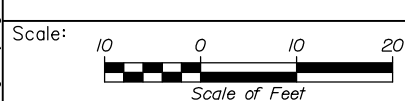
9+50.00

STA. 9+15.40, 22' RT. TO STA. 9+18.52, 22.2' RT. INSTALL 3 LF 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS, 8' OFFSET BLOCKS, SINGLE FACED)

STA. 9+18.52, 22.2' RT. TO STA. 9+52.82, 24.5' RT. INSTALL GUARDRAIL - FLARED TERMINAL - 3" W-BEAM GUARDRAIL



9+00.00



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AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 CROSS SECTIONS
 RAMP A - STA. 9+00 TO STA. 9+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	TJW	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

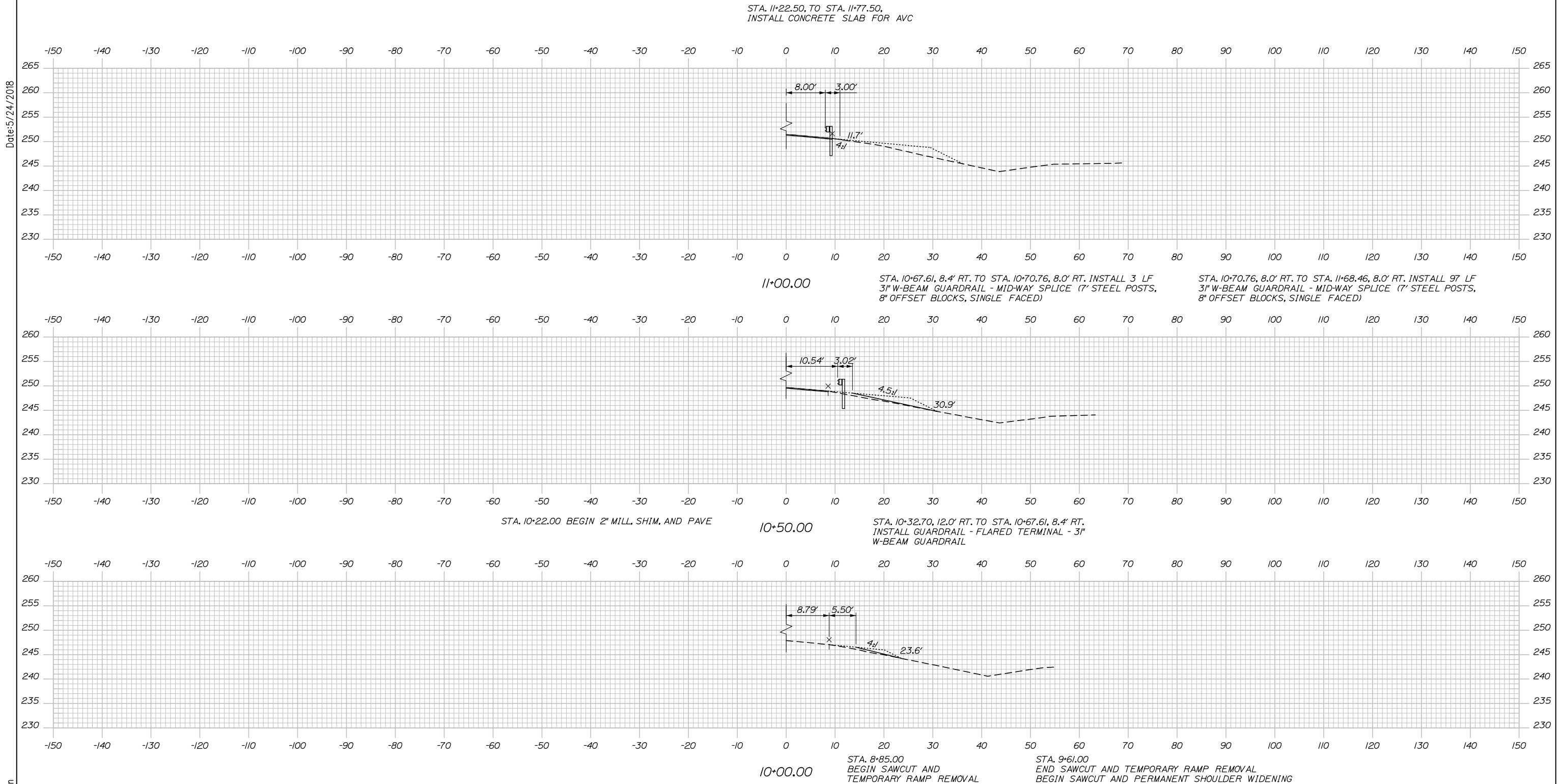
CONTRACT: 2018.17

SHEET NUMBER: XS-16

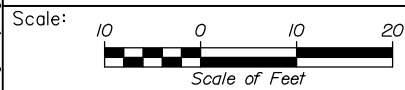
42 OF 84

Filename: X:Sect - Highway.dgn

Date: 5/24/2018



Filename: X:Sect - Highway.dgn



Designed by:



No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date	Checked	By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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THE GOLD STAR
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MTA PROJECT MANAGER: William Yates

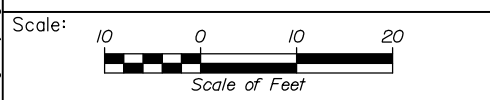
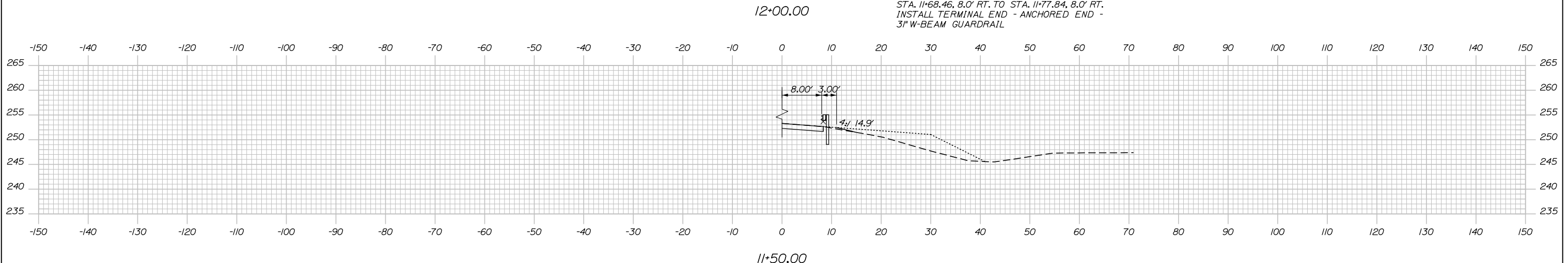
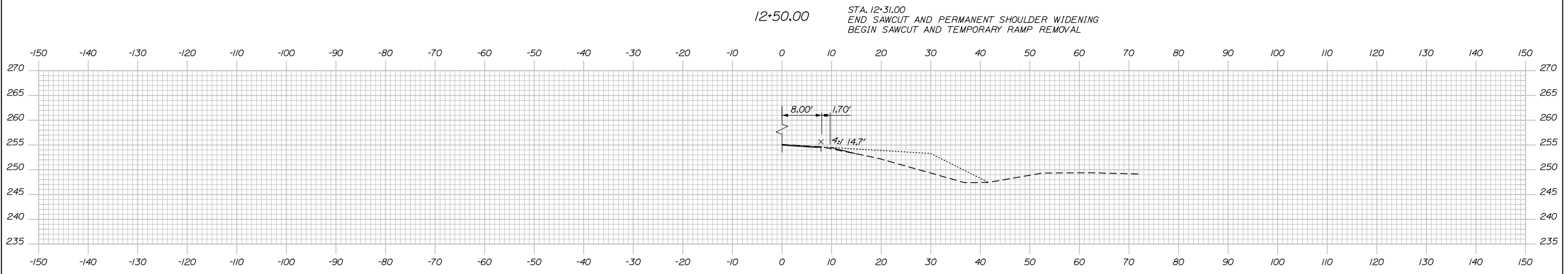
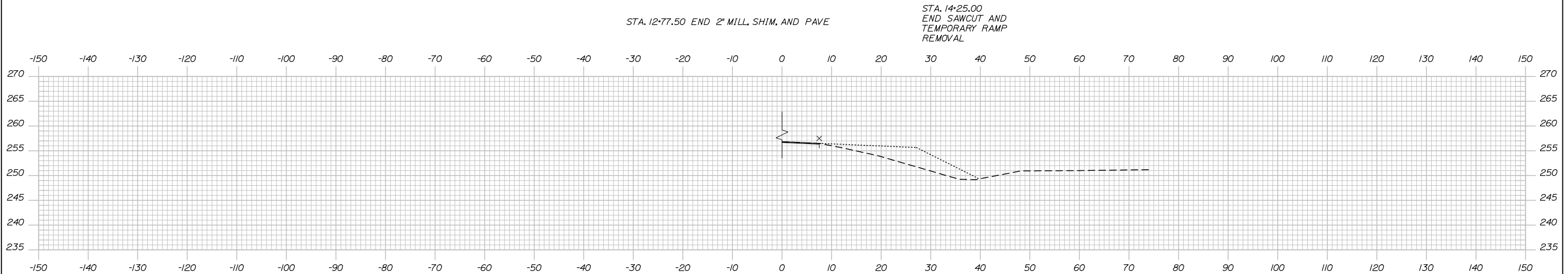
AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
CROSS SECTIONS
RAMP C - STA. 10+00 TO STA. 11+00

CONTRACT: 2018.17

SHEET NUMBER: XS-17

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Date: 5/24/2018



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E.

	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

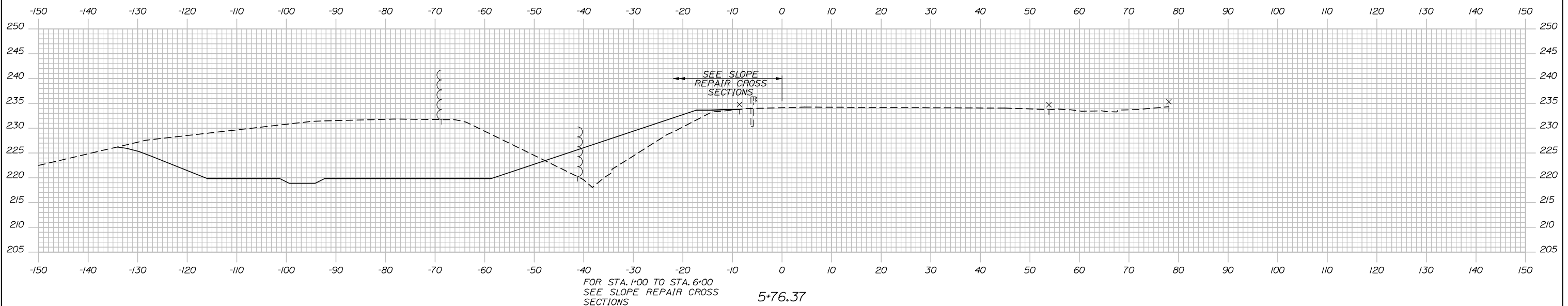
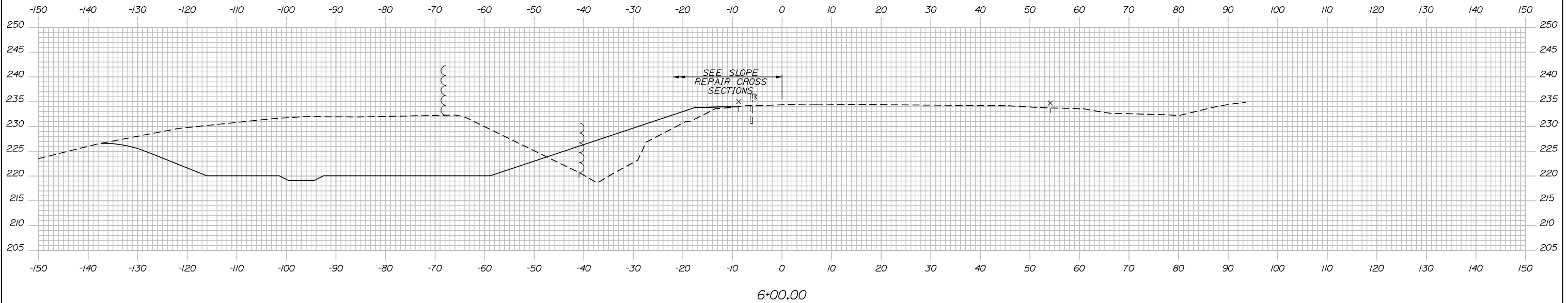
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 CROSS SECTIONS
 RAMP C - STA. 11+50 TO STA. 12+50

SHEET NUMBER: XS-18
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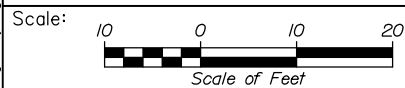
CONTRACT: 2018.17

Filename: XSect - Highway.dgn

Date: 5/24/2018



Filename: X\sect - Highway.dgn



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THE GOLD STAR
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AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
CROSS SECTIONS
RAMP D - STA. 5+76 TO STA. 6+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

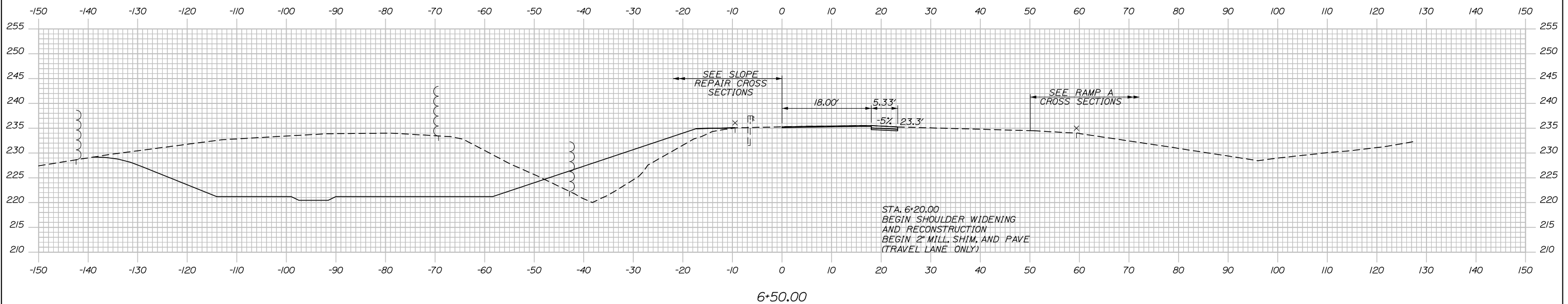
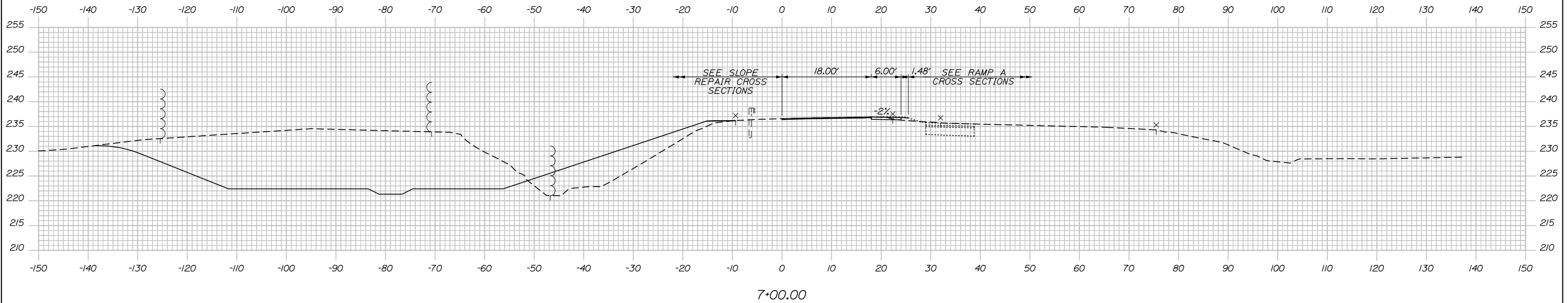
MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

SHEET NUMBER: XS-19

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Date: 5/24/2018



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

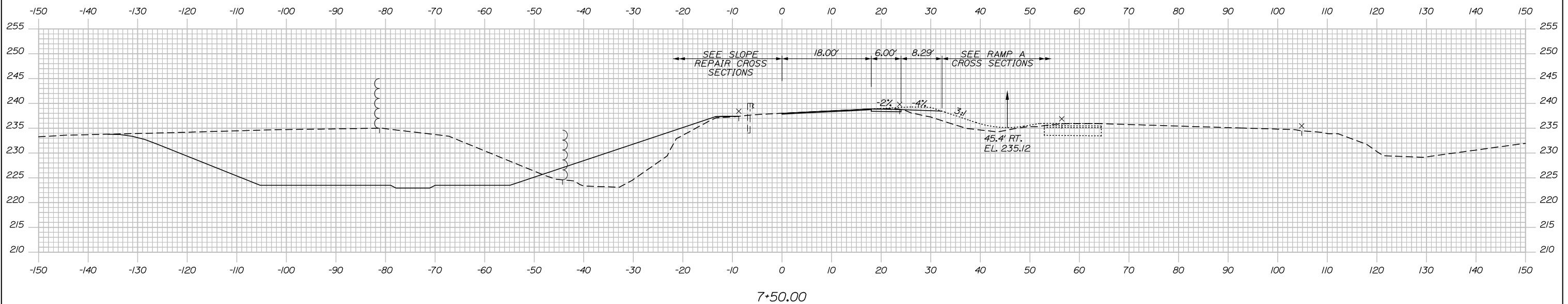
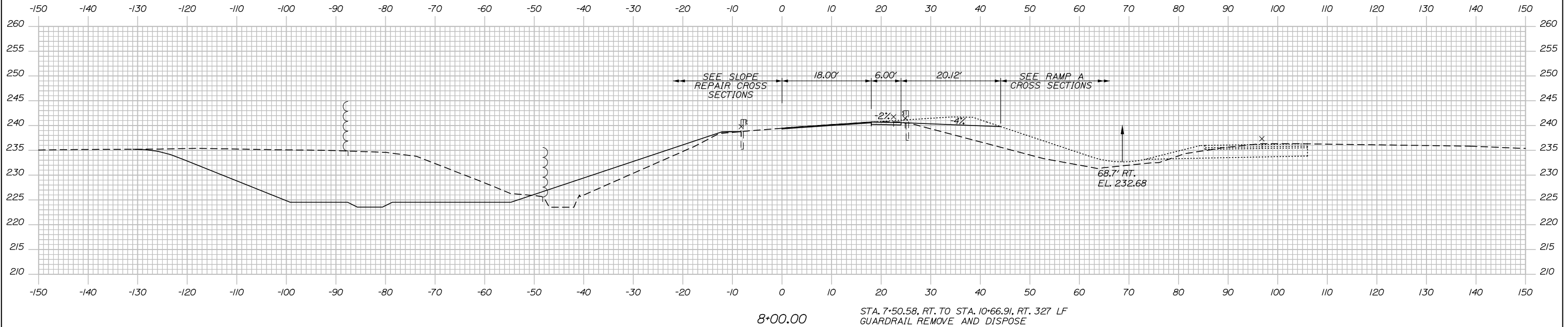
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 CROSS SECTIONS
 RAMP D - STA. 6+50 TO STA.7+00

SHEET NUMBER: XS-20
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CONTRACT: 2018.17

Filename: XSect - Highway.dgn

Date: 5/24/2018



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AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 CROSS SECTIONS
 RAMP D - STA. 7+50 TO STA. 8+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

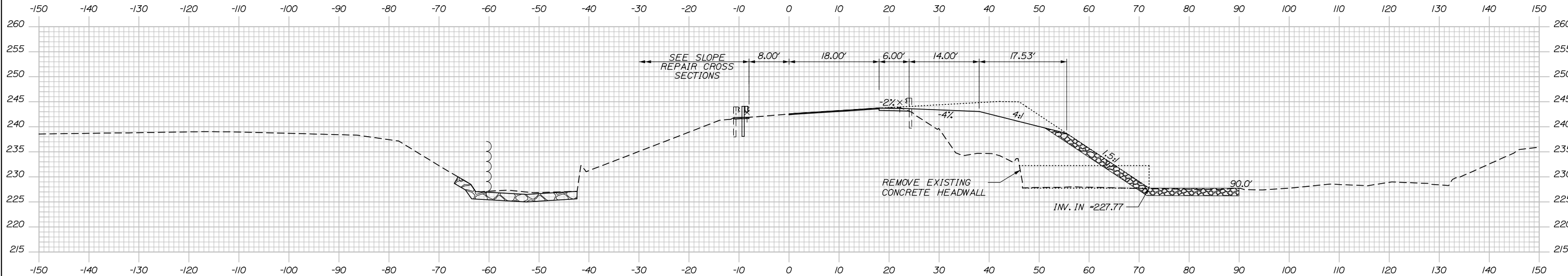
SHEET NUMBER: XS-21

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Filename: XSect - Highway.dgn

Date: 5/24/2018

STA. 9+28.66, TO STA. 9+83.68,
INSTALL CONCRETE SLAB FOR AVC

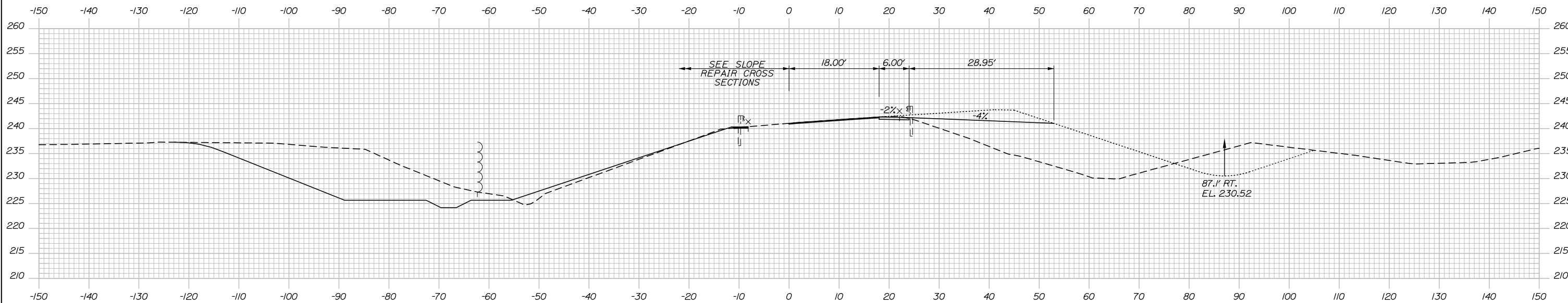


STA. 8+79.03, 8.0' LT. TO STA. 10+40.13, 8.0' LT. INSTALL
159.5 LF 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7'
STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)

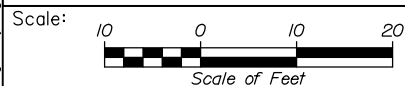
STA. 8+69.56, 8.0' LT. TO STA. 8+79.03, 8.0' LT.
INSTALL TERMINAL END - ANCHORED END -
3" W-BEAM GUARDRAIL

9+00.00

STA. 8+98.03, 46.2' RT. TO STA. 8+98.14, 72.2' RT.
INSTALL 26' X 54" RCP CLASS V
RIPRAP APRON



8+50.00



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AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
CROSS SECTIONS
RAMP D - STA. 8+50 TO STA. 9+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

SHEET NUMBER: XS-22

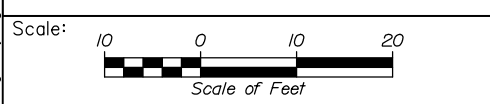
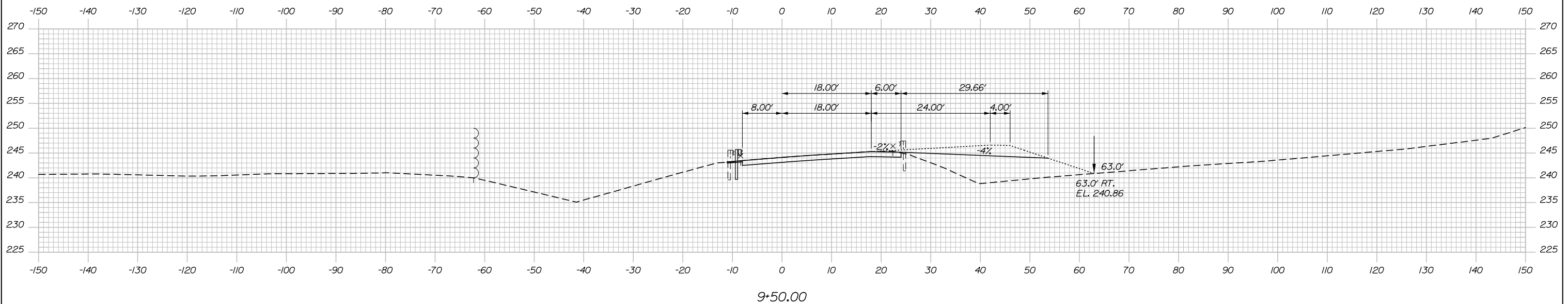
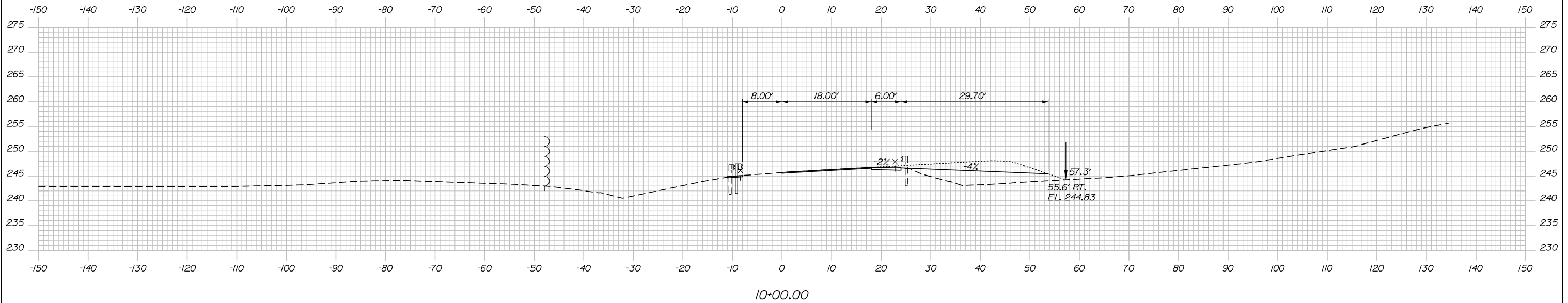
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Filename: Xsect - Highway.dgn

Date: 5/24/2018

STA. 10+43.26, 8.4' LT. TO STA. 10+77.92, 12' LT.
 INSTALL GUARDRAIL - FLARED TERMINAL - 3"
 W-BEAM GUARDRAIL

STA. 10+40.13, 8.0' LT. TO STA. 10+43.26, 8.4' LT. INSTALL 3 LF
 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7" STEEL POSTS,
 8" OFFSET BLOCKS, SINGLE FACED)



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THE GOLD STAR
 MEMORIAL HIGHWAY

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 CROSS SECTIONS
 RAMP D - STA. 9+50 TO STA. 10+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

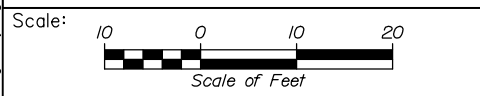
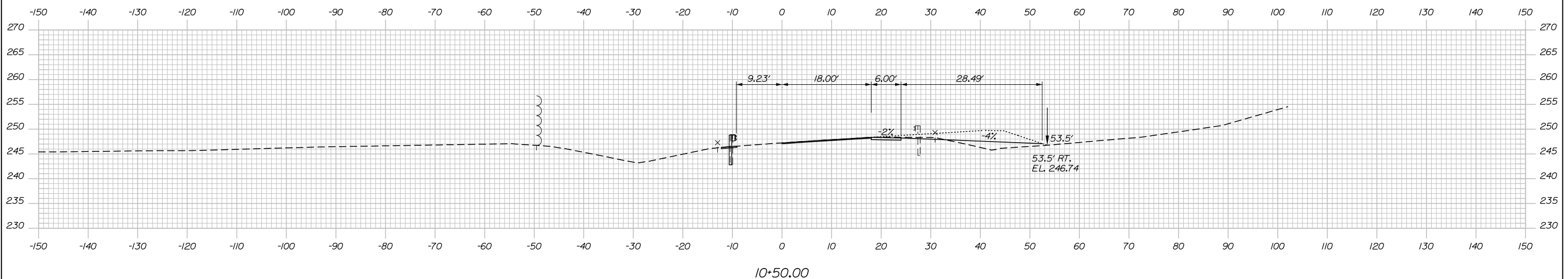
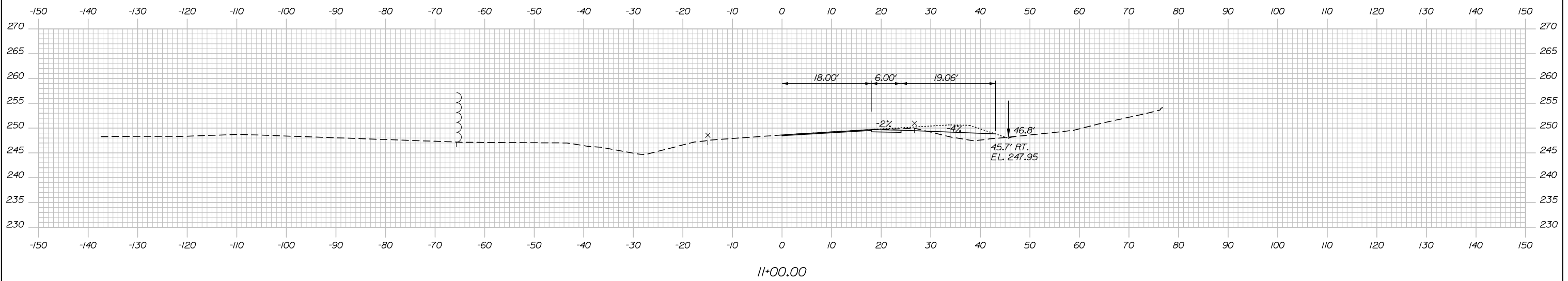
CONTRACT: 2018.17

SHEET NUMBER: XS-23

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Filename: XSect - Highway.dgn

Date: 5/24/2018



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date	Checked	By	Date
Designed	CDH	05\18	Checked	RBM	05\18
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

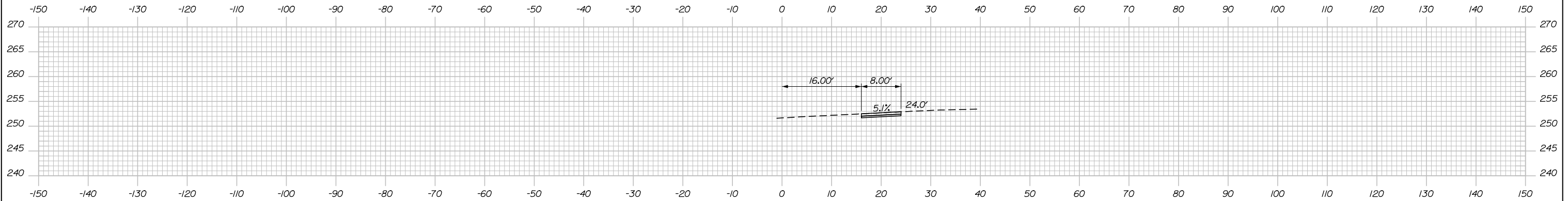
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 CROSS SECTIONS
 RAMP D - STA. 10+50 TO STA. 11+00

CONTRACT: 2018.17
 SHEET NUMBER: XS-24
 50 OF 84

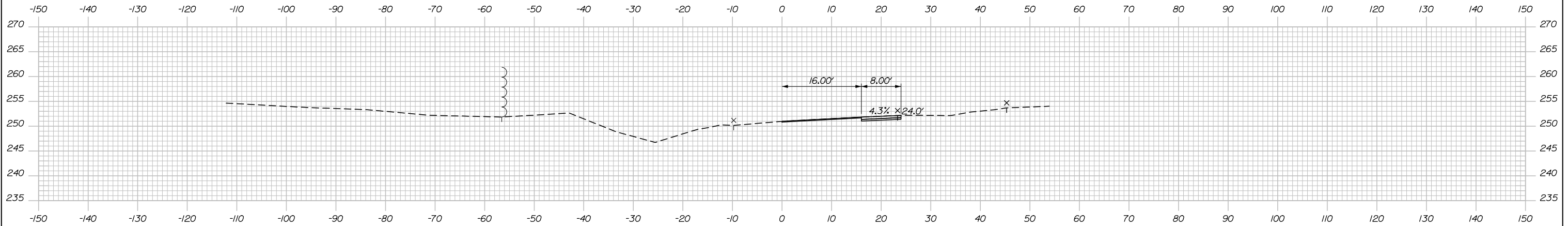
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Date: 5/24/2018

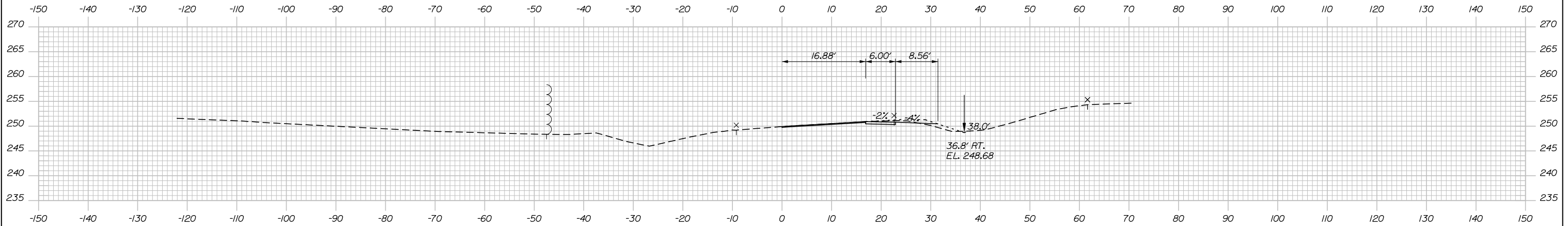
STA. 12+85.00 RT
 END SHOULDER WIDENING AND
 RECONSTRUCTION
 LIMIT OF WORK



12+50.00 STA. 12+23.00
 END 2" MILL, SHIM, AND PAVE
 (TRAVEL LANE ONLY)



12+00.00



11+50.00



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 RAMP D - STA. 11+50 TO STA. 12+50

No.	Revision	By	Date

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Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

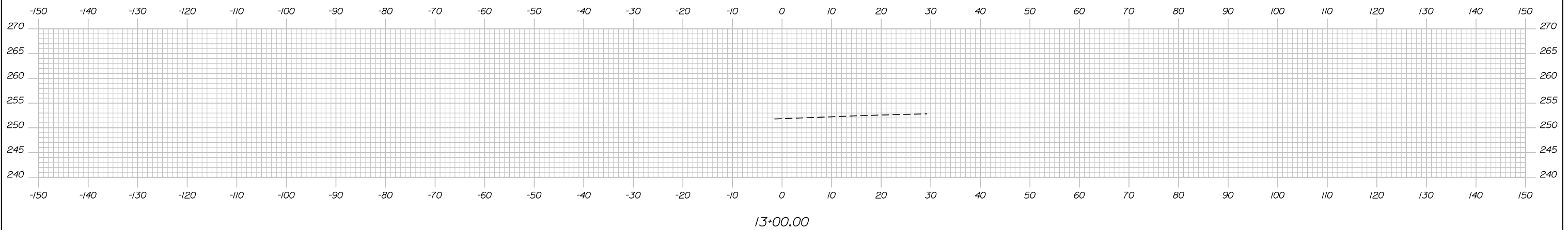
CONTRACT: 2018.17

SHEET NUMBER: XS-25

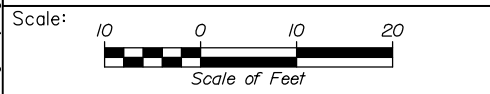
51 OF 84

Filename: XSect - Highway.dgn

Date: 5/24/2018



Filename: X\sect - Highway.dgn



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	By	Date		By	Date
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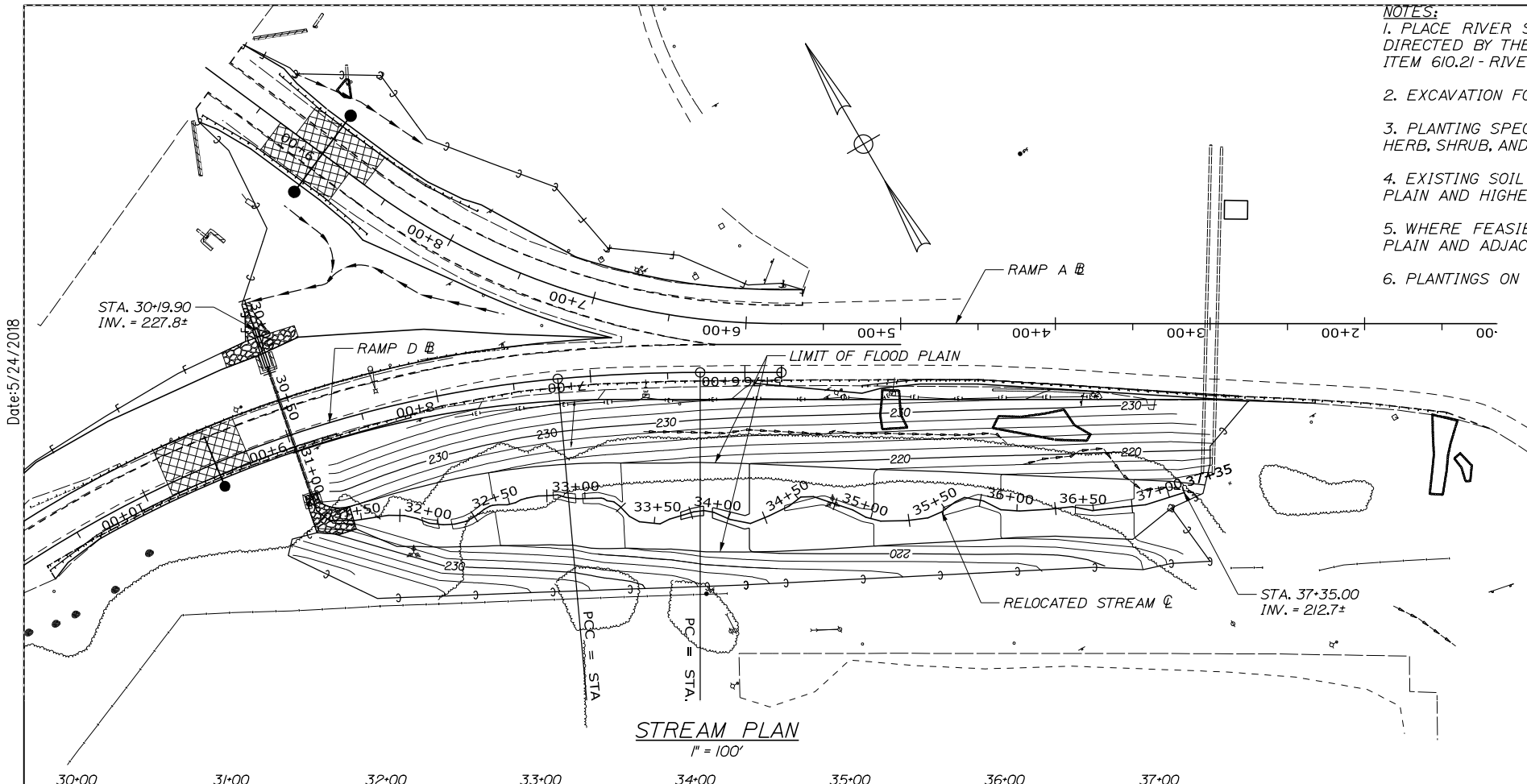
MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 CROSS SECTIONS
 RAMP D - STA. 13+00 TO STA.14+00

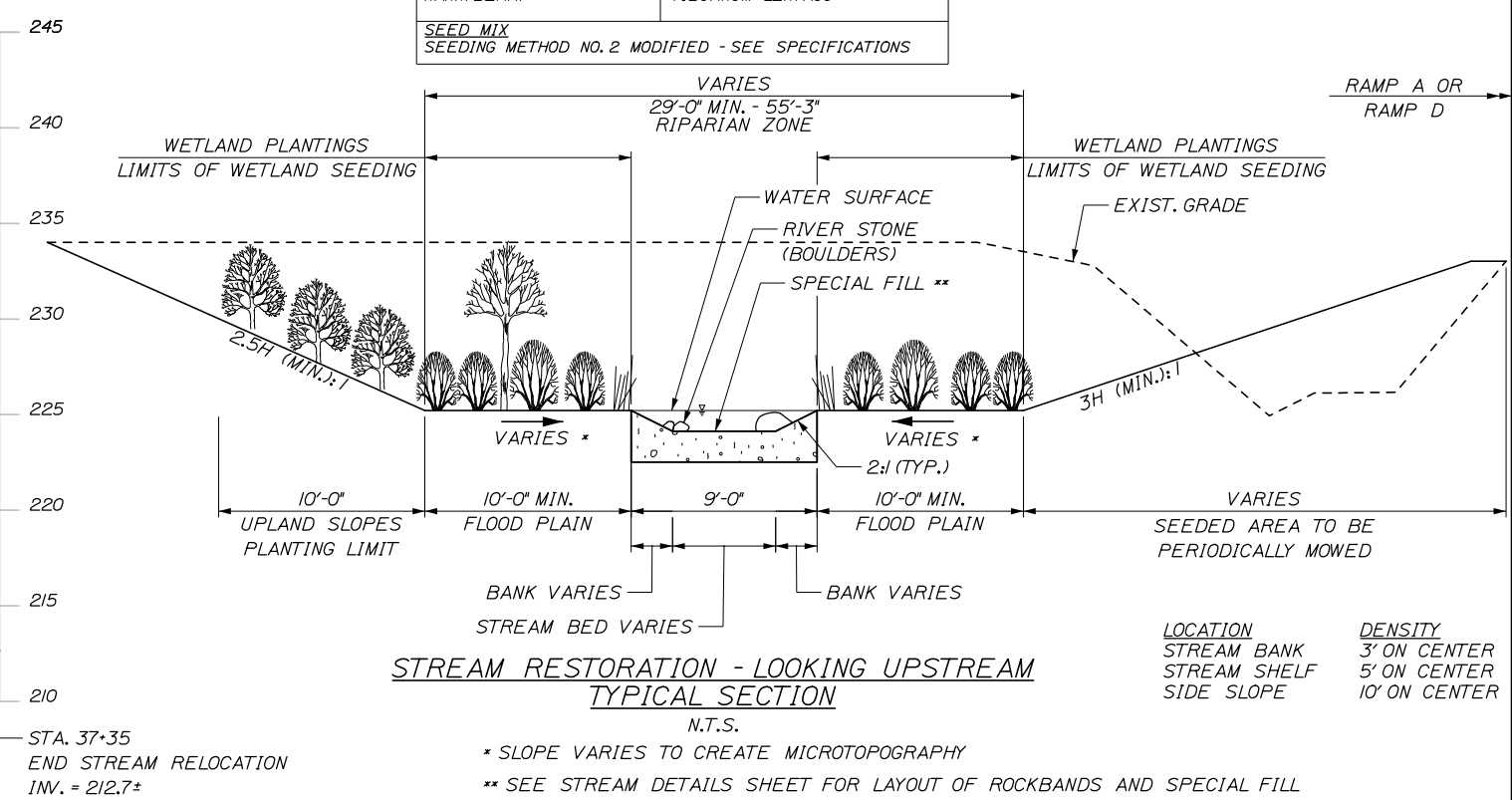
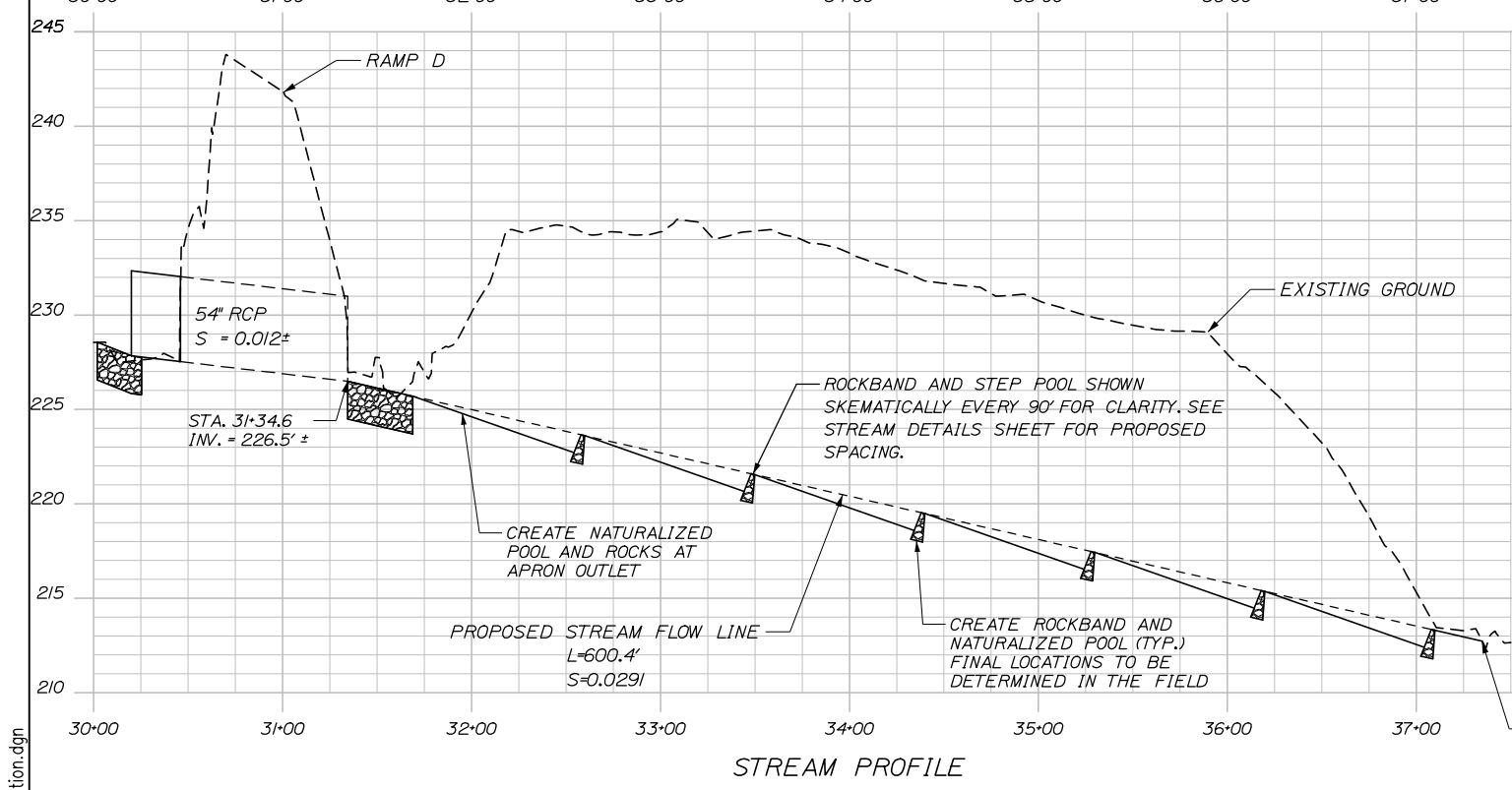
SHEET NUMBER: XS-26
52 OF 84

CONTRACT: 2018.17

- NOTES:**
1. PLACE RIVER STONE AND WOODY DEBRIS RANDOMLY WITHIN THE STREAM BED AND BANKS TO CREATE HABITAT AS DIRECTED BY THE RESIDENT AND PER MDIFW STREAM HABITAT IMPROVEMENT GUIDANCE. (PAYMENT SHALL BE MADE UNDER ITEM 610.21 - RIVER STONES)
 2. EXCAVATION FOR THE STREAM SHALL BE PAID FOR UNDER ITEM 203.20 COMMON EXCAVATION.
 3. PLANTING SPECIES WILL BE NATIVE FOR WETLAND/RIPARIAN/STREAM SPECIES AND UPLAND SPECIES AND WILL INCLUDE HERB, SHRUB, AND TREE COVER FOR FILTRATION AND SHADE.
 4. EXISTING SOIL TYPES ARE SILTY/CLAY. SALVAGE EXISTING ORGANIC MATERIAL AND GRAVELLY SOILS TO DEPOSIT ON FLOOD PLAIN AND HIGHER GROUND. MINIMUM 4" LOAM AND SEED/MULCH ON SIDE SLOPE.
 5. WHERE FEASIBLE, USE SOIL AND GRAVEL FROM THE EXISTING STREAM CHANNEL AND BANKS TO LINE THE CREATED FLOOD PLAIN AND ADJACENT AREAS OF THE CREATED CHANNEL.
 6. PLANTINGS ON UPLAND SLOPES ARE PROVIDED FOR SHADE.



AUBURN EXIT 75 SLOPE REPAIR PLANTINGS	
COMMON NAME	SCIENTIFIC NAME
STREAM/WETLAND ZONE	
TREES LARCH RED MAPLE BLACK WILLOW GREEN ASH DOWNY HAWTHORN	LARIX LARICINA ACER RUBRUM SALIX NIGRA FRAXINUS PENNSYLVANICA CRATAEGUS MOLLIS
SHRUBS SPECKLED ALDER RED OSIER DOGWOOD BUTTONBUSH WINTERBERRY PUSSY WILLOW HIGHBUSH BLUEBERRY	ALNUS INCANA CORNUS SERICEA (ALBA) CEPHALANTHUS OCCIDENTALIS ILEX VERTICILLATA SALIX DISCOLOR VACCINIUM CORYMBOSUM
SEED MIX SEEDING METHOD NO. 2 MODIFIED - SEE SPECIFICATIONS	
UPLAND SLOPES	
TREES BALSAM FIR BLACK CHERRY EASTERN WHITE PINE SUGAR MAPLE	ABIES BALSAMEA PRUNUS SEROTINA PINUS STROBUS ACER SACCHARUM
SHRUBS BEAKED HAZELNUT NANNYBERRY	CORYLUS CORNUTA VIBURNUM LENTAGO
SEED MIX SEEDING METHOD NO. 2 MODIFIED - SEE SPECIFICATIONS	



Scale: 50 0 50 100
 Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEM	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION

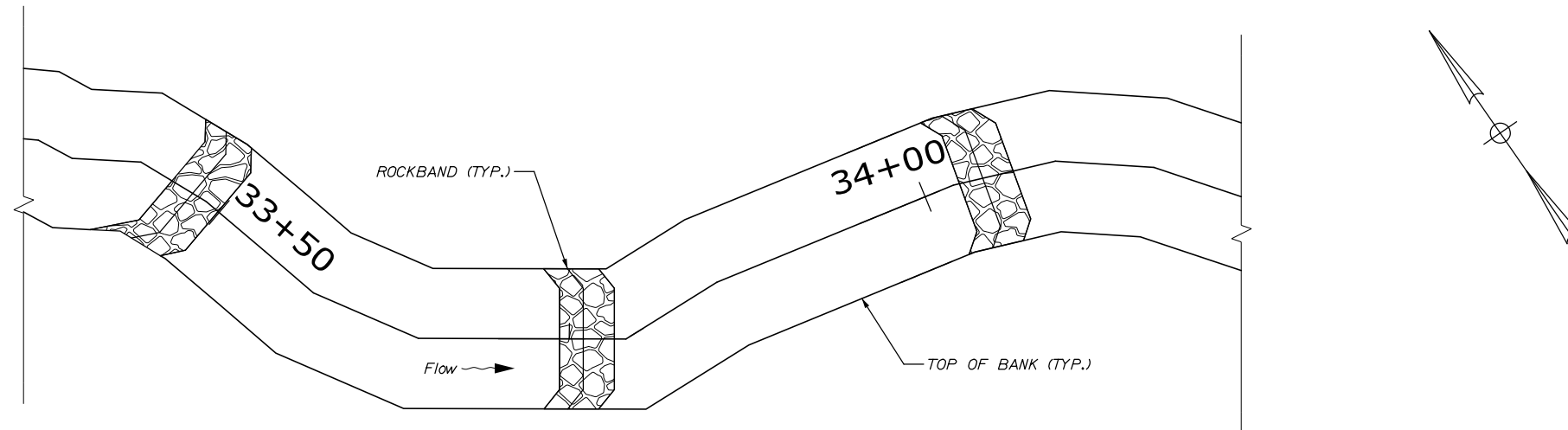
STREAM RELOCATION

SHEET NUMBER: PL-01
 53 OF 84

CONTRACT: 2018.17

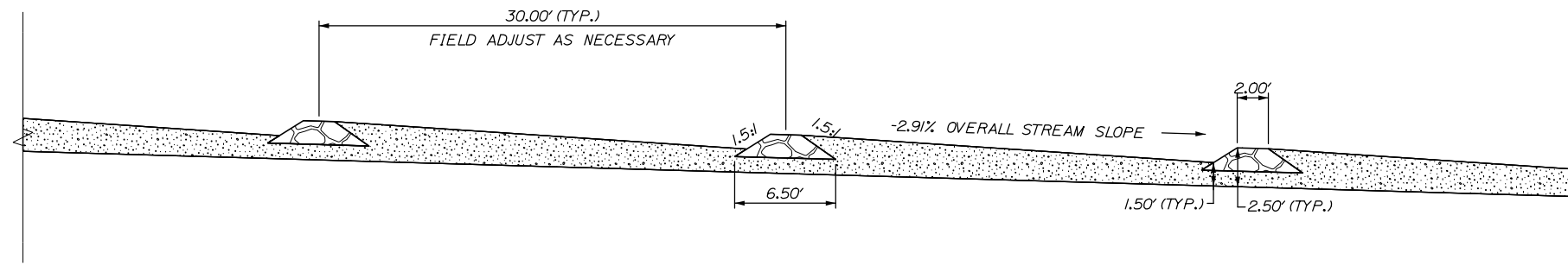
Date: 5/24/2018
 File: 053_stream_mitigation.dgn

Date: 5/24/2018



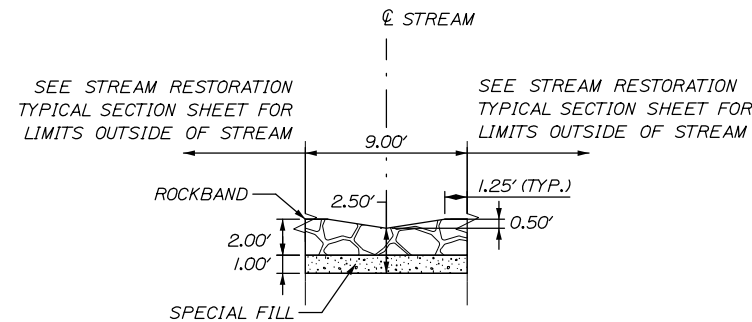
STREAM RESTORATION - PLAN VIEW

N.T.S.



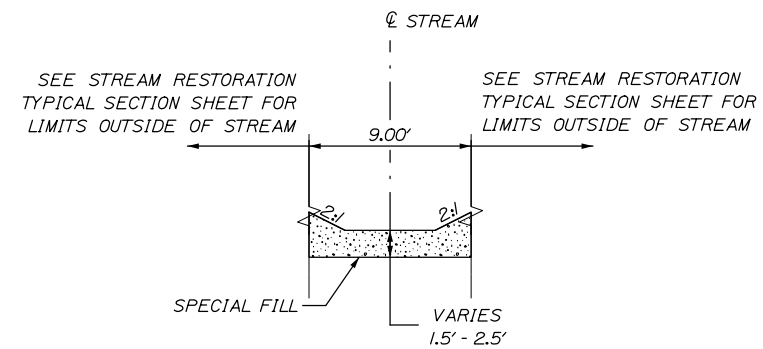
STREAM RESTORATION - PROFILE VIEW

N.T.S.



STREAM RESTORATION - LOOKING UPSTREAM THROUGH ROCKBAND

N.T.S.



STREAM RESTORATION - LOOKING UPSTREAM THROUGH STEP POOL

N.T.S.

NOTES:

1. FINAL PLACEMENT OF ROCKBANDS AND WOODY DEBRIS WITHIN THE STREAM BED AND BANKS SHALL BE APPROVED BY THE RESIDENT AND/OR MDIFW.
2. ROCKBANDS SHALL BE CONSTRUCTED OF WELL GRADED MIX OF 9" TO 18" RIVER STONE.
3. VOIDS IN ROCKBANDS TO BE INFILLED WITH SPECIAL FILL, WATERED IN AND TAMPED CREATING A SOLID MASS.

Filename: 054_stream_details.dgn

Scale:

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**THE GOLD STAR
MEMORIAL HIGHWAY**

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION

STREAM DETAILS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date	By	Date	
Designed	AJS	05\18	Checked	RWH	05\18
Drawn	AJS	05\18	In Charge of	RAL	05\18

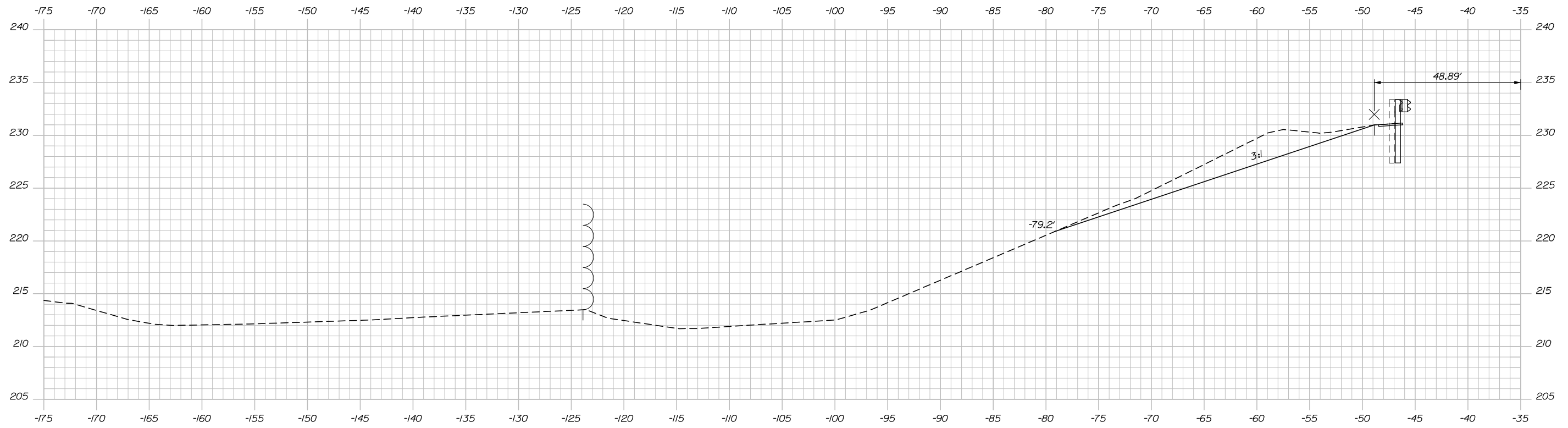
MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

SHEET NUMBER: PL-02

54 OF 84

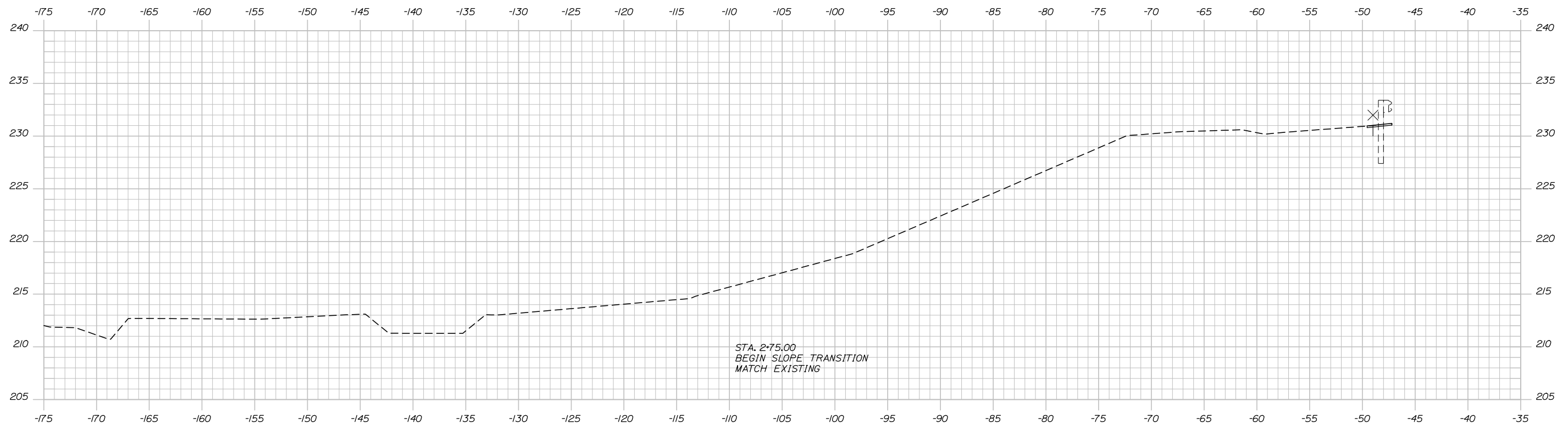
Date: 5/24/2018



3+00.00 STA. 3+00.00
 END SLOPE TRANSITION
 BEGIN SLOPE REPAIRS
 AND STREAM RELOCATION

STA. 2+81.80, 46.3' LT. TO STA. 2+91.15, 46.0' LT.
 INSTALL TERMINAL END - ANCHORED END -
 3" W-BEAM GUARDRAIL

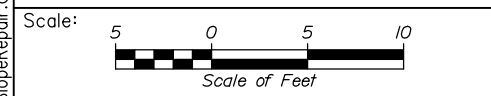
STA. 2+91.15, 46.0' LT. TO STA. 4+50.00, 36.0' LT. INSTALL
 159 LF 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7"
 STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)



2+75.00 STA. 1+47.00 LT
 BEGIN SAW CUT AND PAVEMENT REMOVAL

STA. 2+32.00 LT
 BEGIN SHOULDER PAVEMENT

Filename: X:Sect_SlopeRepair.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

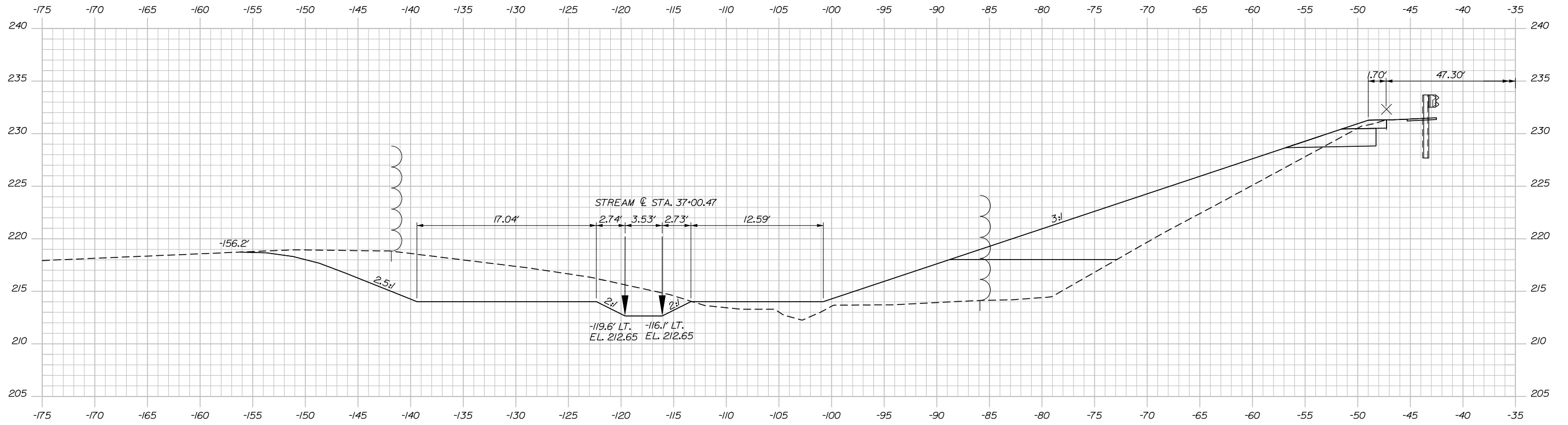
MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION

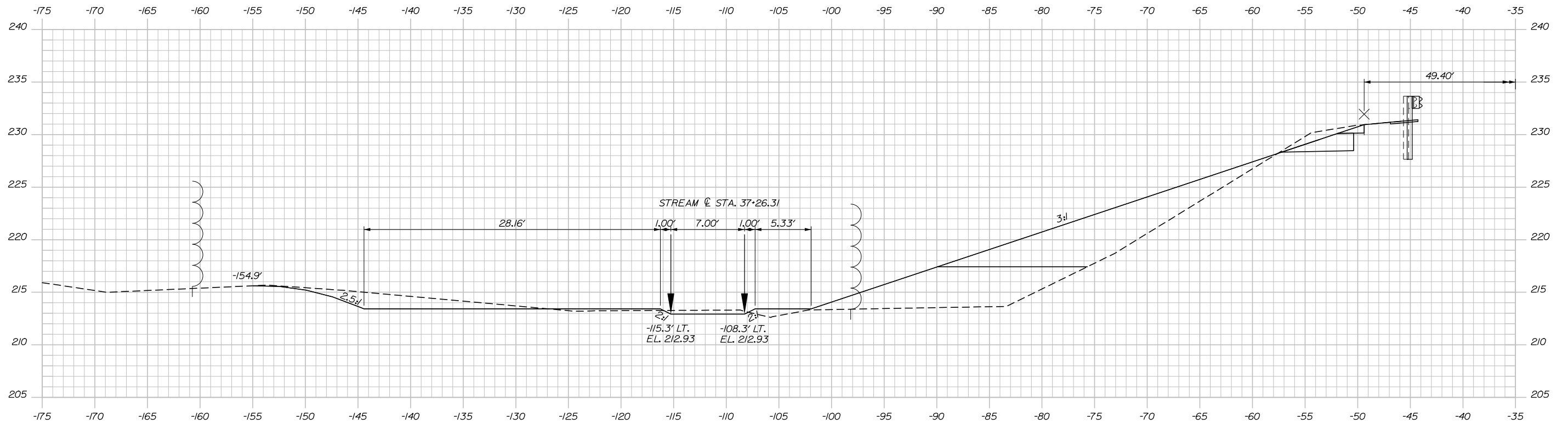
SLOPE REPAIR CROSS SECTIONS
 RAMP A - STA. 2+75.00 TO STA. 3+00.00

SHEET NUMBER: XS-27
 CONTRACT: 2018.17
 55 OF 84

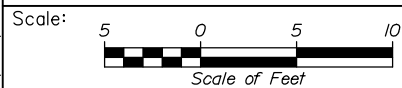
Date: 5/24/2018



3+50.00



3+25.00



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THE GOLD STAR
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AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 SLOPE REPAIR CROSS SECTIONS
 RAMP A - STA. 3+25.00 TO STA. 3+50.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
Designed	By	Date	Checked	By	Date
	EDD	05\18		RWH	05\18
Drawn	By	Date	In Charge of	By	Date
	PEB	05\18		RAL	05\18

MTA PROJECT MANAGER: William Yates

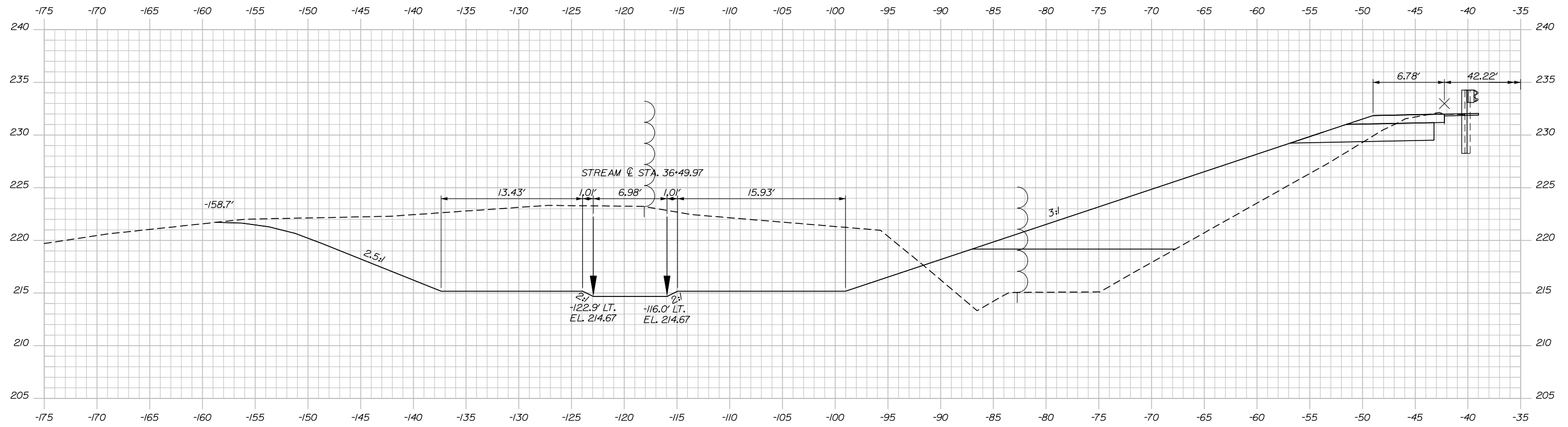
CONTRACT: 2018.17

SHEET NUMBER: XS-28

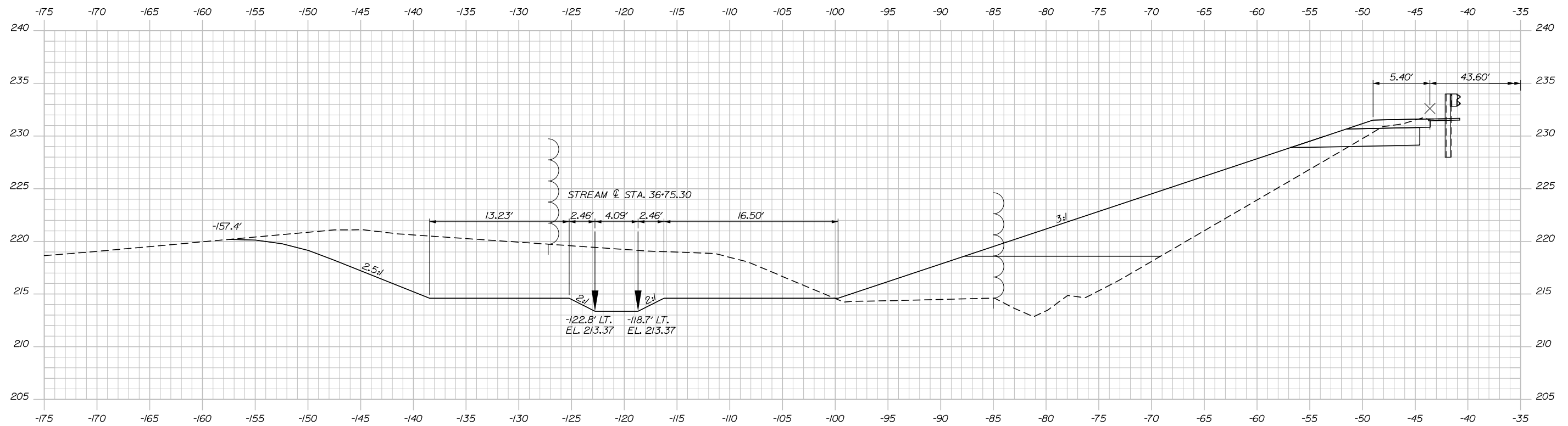
56 OF 84

Filename: XSect_SlopeRepair.dgn

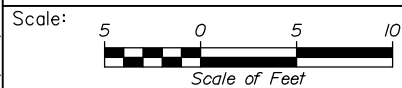
Date: 5/24/2018



4+00.00



3+75.00



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THE GOLD STAR
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AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
SLOPE REPAIR CROSS SECTIONS
RAMP A - STA. 3+75.00 TO STA. 4+00.00

SHEET NUMBER: XS-29

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

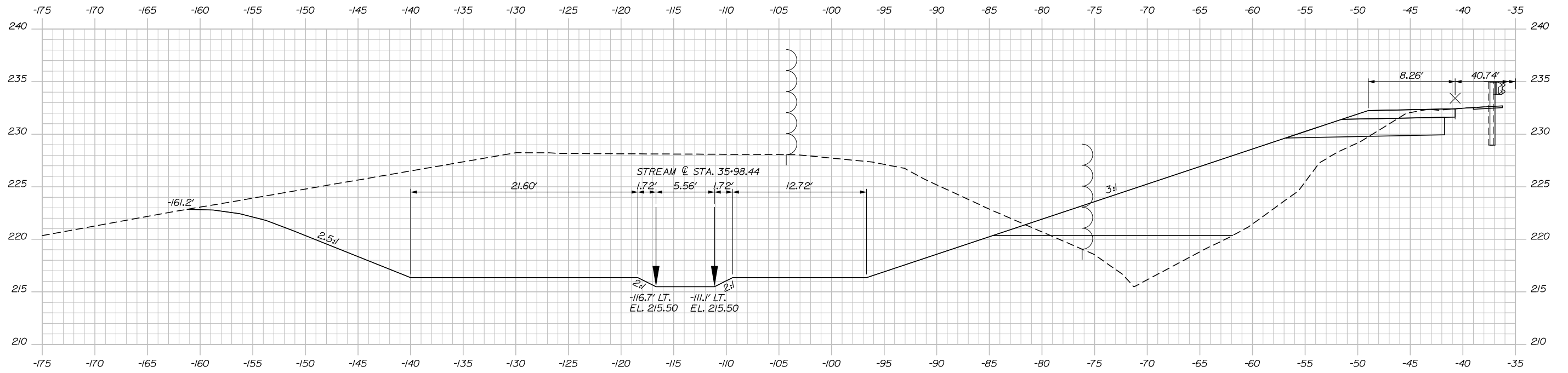
MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

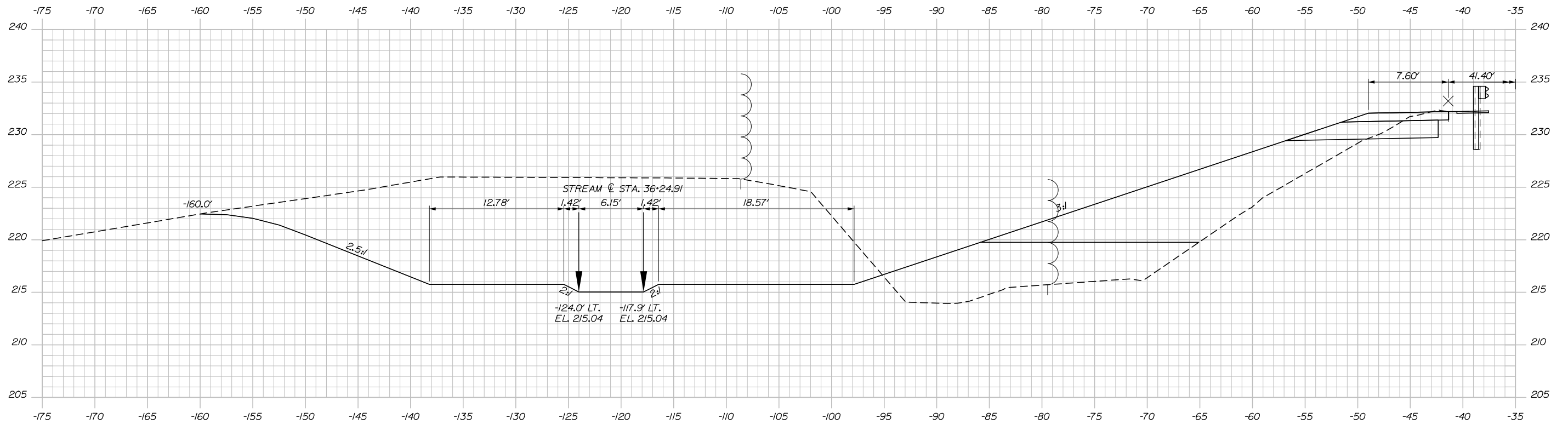
57 OF 84

Filename: XSect_SlopeRepair.dgn

STA. 4+50.00, 36.0' LT. TO STA. 4+87.71, 36' LT. INSTALL
 38 LF 3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7'
 STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)



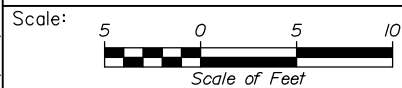
4+50.00



4+25.00

Date: 5/24/2018

Filename: X:Sect_SlopeRepair.dgn



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION

SLOPE REPAIR CROSS SECTIONS
 RAMP A - STA. 4+25.00 TO STA. 4+50.00

SHEET NUMBER: XS-30

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

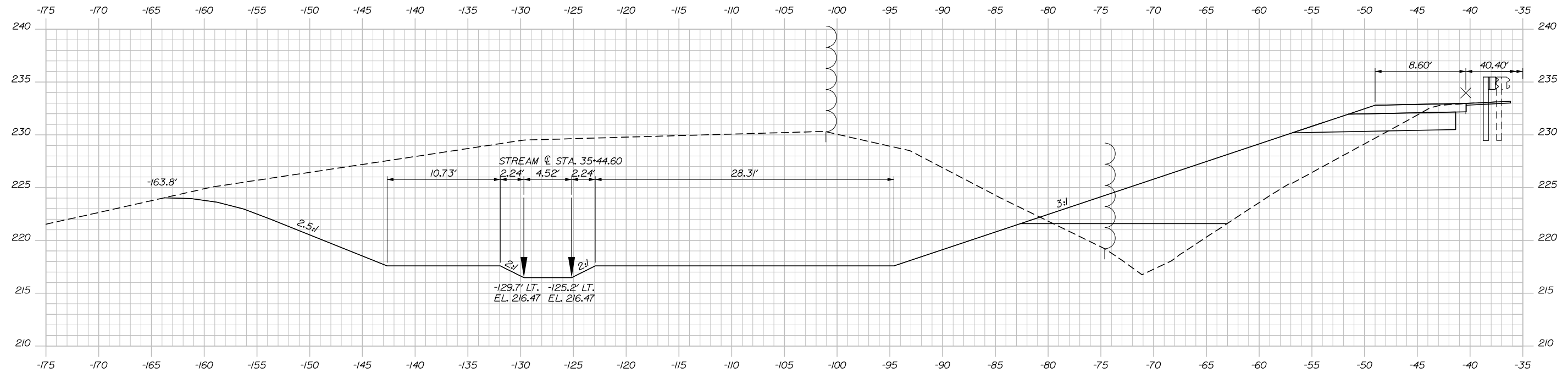
	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

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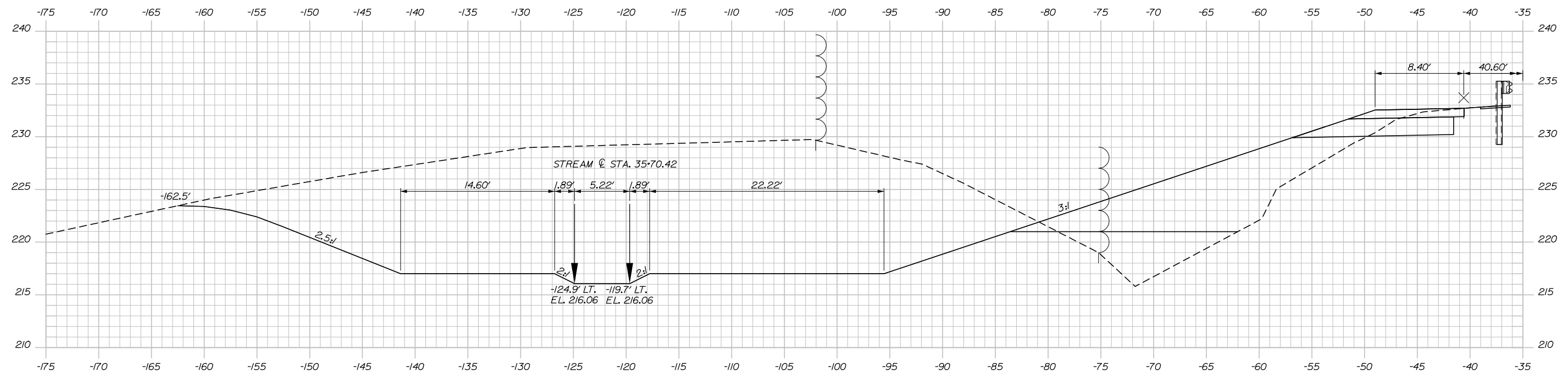
Date: 5/24/2018



5+00.00

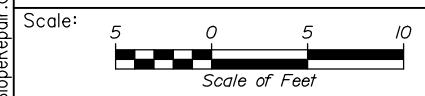
STA. 4+87.71, 36' LT. TO STA. 4+90.82, 36.3' LT. INSTALL 3 LF 31" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)

STA. 4+90.82, 36.3' LT. TO STA. 5+25.00, 40' LT. INSTALL GUARDRAIL - FLARED TERMINAL - 31" W-BEAM GUARDRAIL



4+75.00

Filename: X:Sect_SlopeRepair.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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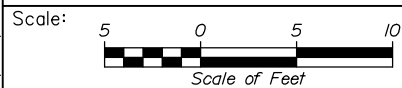
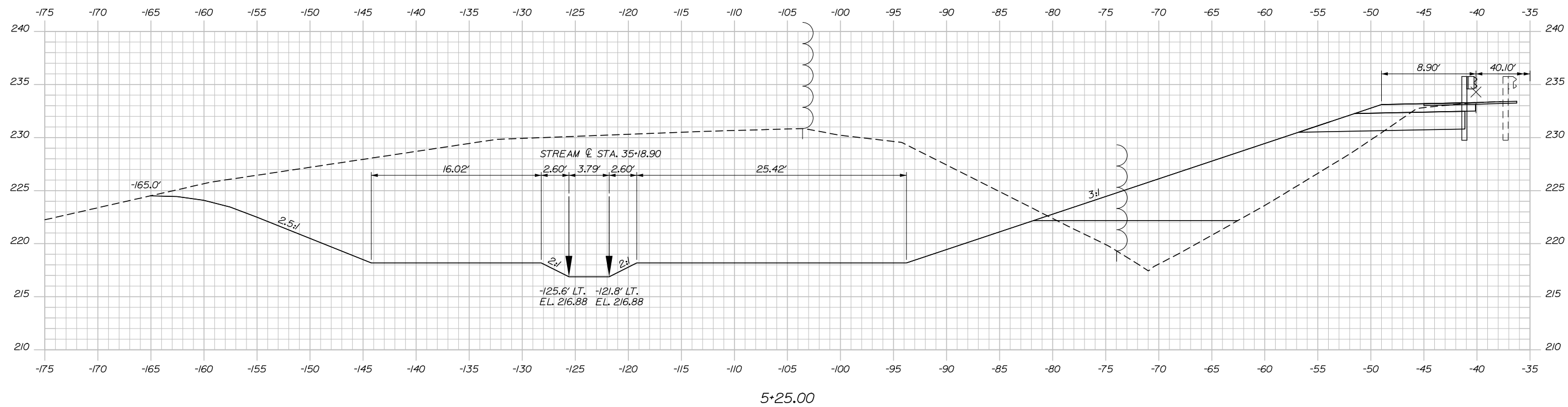
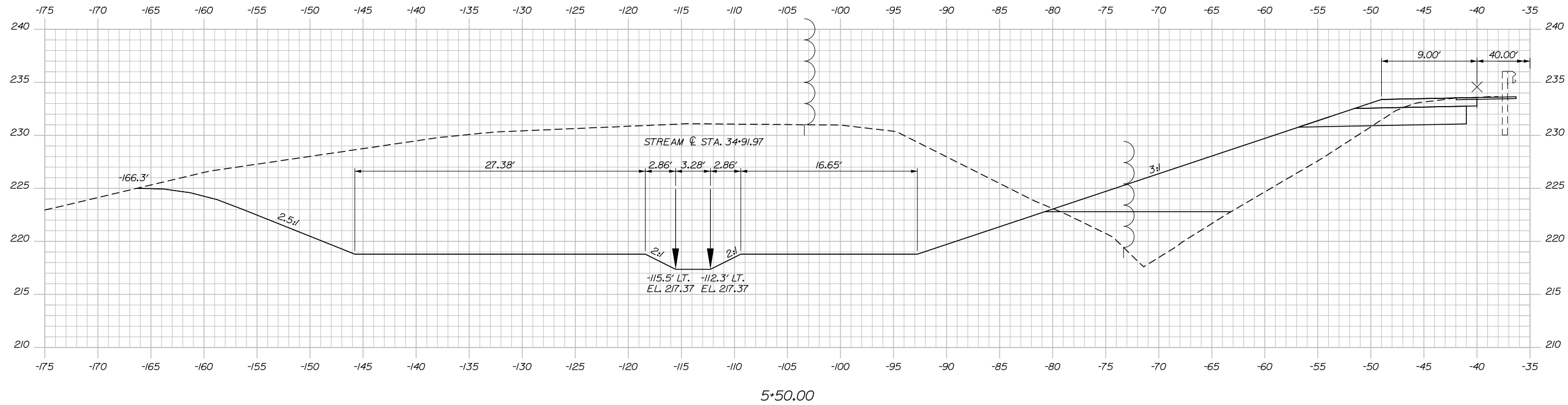
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 SLOPE REPAIR CROSS SECTIONS
 RAMP A - STA. 4+75.00 TO STA. 5+00.00

SHEET NUMBER: XS-31
 CONTRACT: 2018.17
 59 OF 84

Date: 5/24/2018



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THE GOLD STAR
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AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
SLOPE REPAIR CROSS SECTIONS
RAMP A - STA. 5+25.00 TO STA. 5+50.00

SHEET NUMBER: XS-32

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

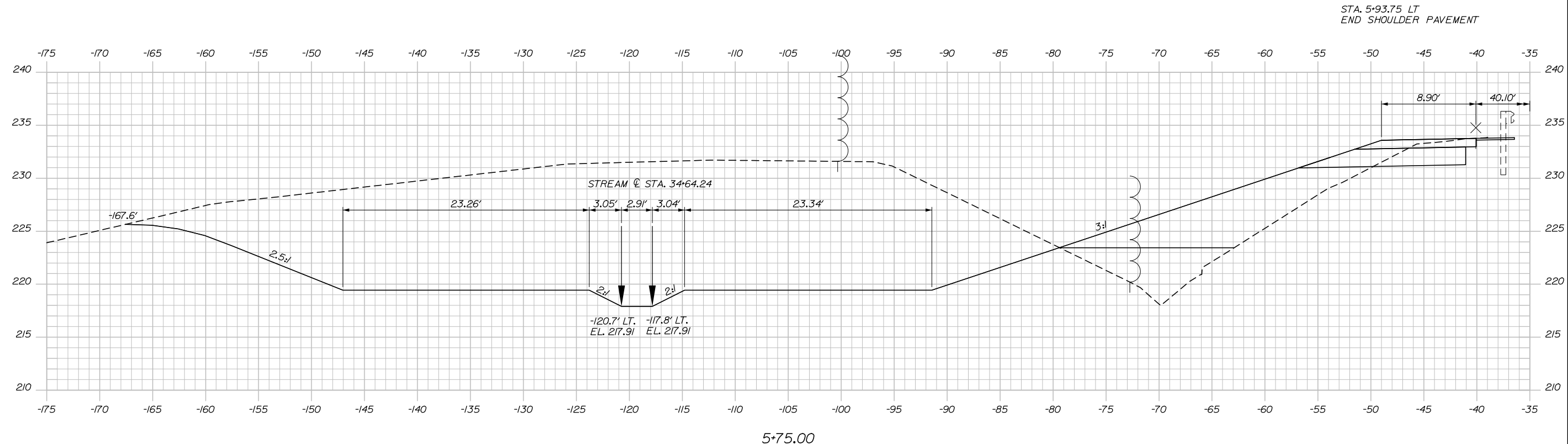
MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

60 OF 84

Filename: X:Sect_SlopeRepair.dgn

Date: 5/24/2018



5+75.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

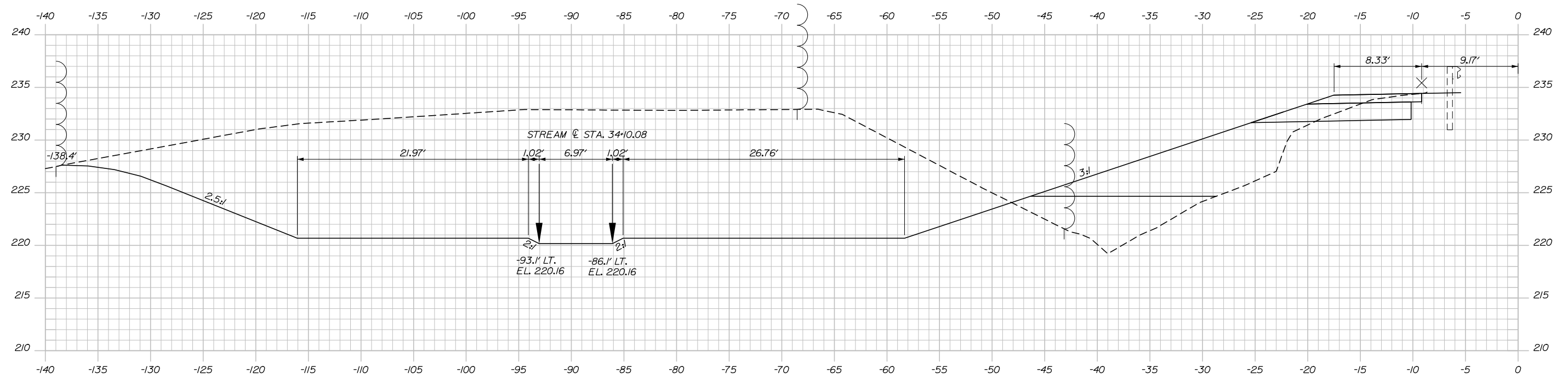
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 SLOPE REPAIR CROSS SECTIONS
 RAMP A - STA. 5+75.00 TO STA. 5+75.00

CONTRACT: 2018.17

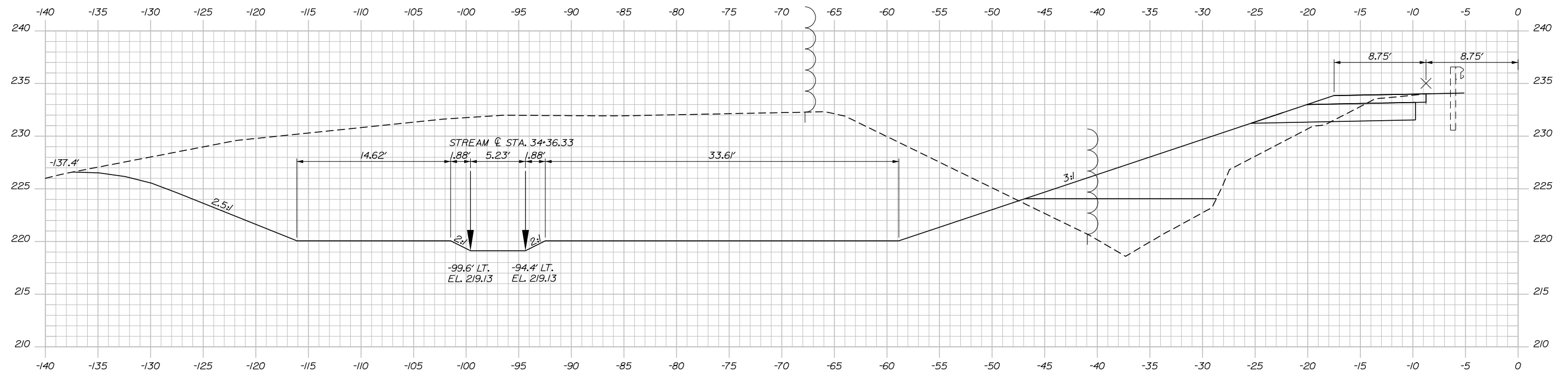
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 61 OF 84

Filename: X:Sect_SlopeRepair.dgn

Date: 5/24/2018

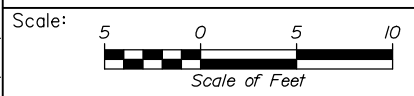


6+25.00



6+00.00

Filename: X:Sect_SlopeRepair.dgn



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

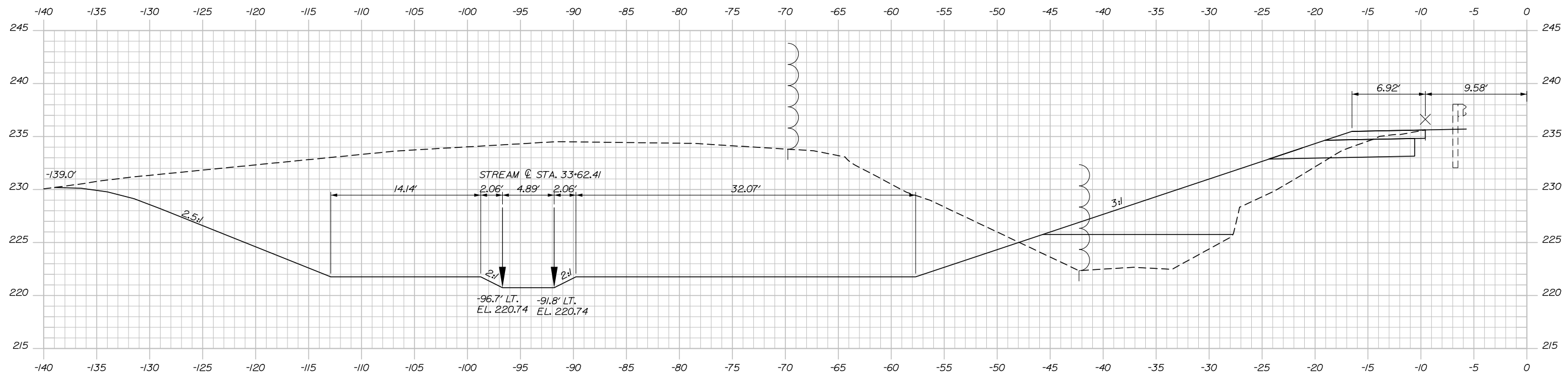
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 SLOPE REPAIR CROSS SECTIONS
 RAMP D - STA. 6+00.00 TO STA. 6+25.00

CONTRACT: 2018.17

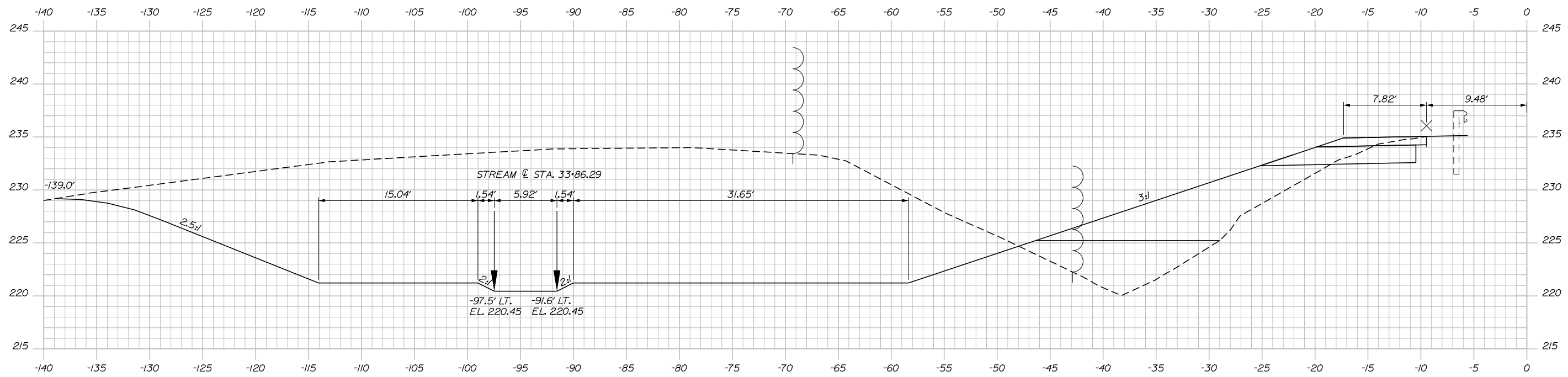
SHEET NUMBER: XS-34

62 OF 84

Date: 5/24/2018

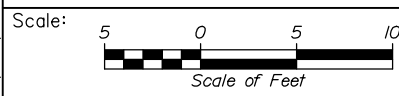


6+75.00



6+50.00

Filename: X\Sect_SlopeRepair.dgn



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THE GOLD STAR
MEMORIAL HIGHWAY

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
SLOPE REPAIR CROSS SECTIONS
RAMP D - STA. 6+50.00 TO STA. 6+75.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

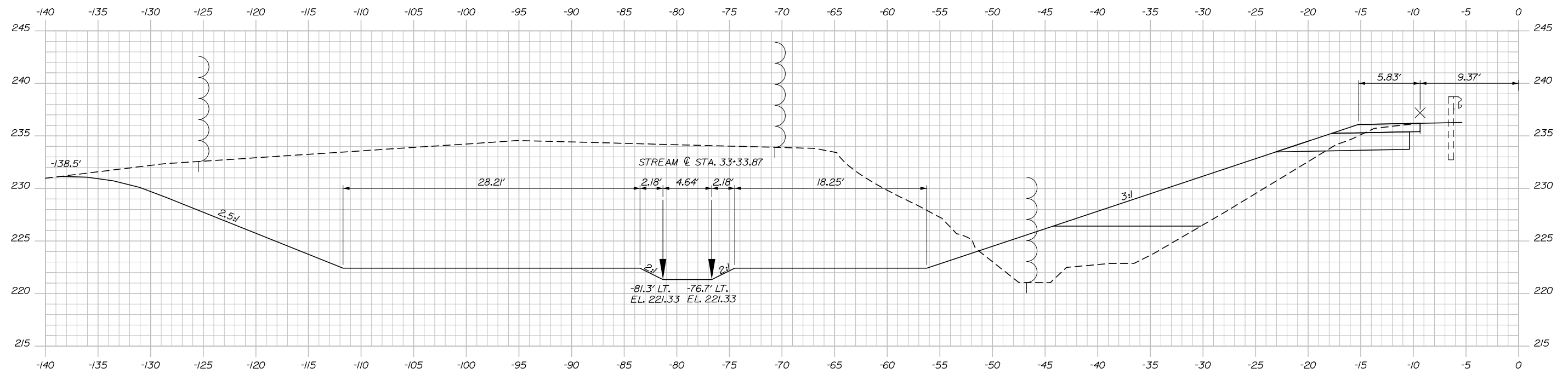
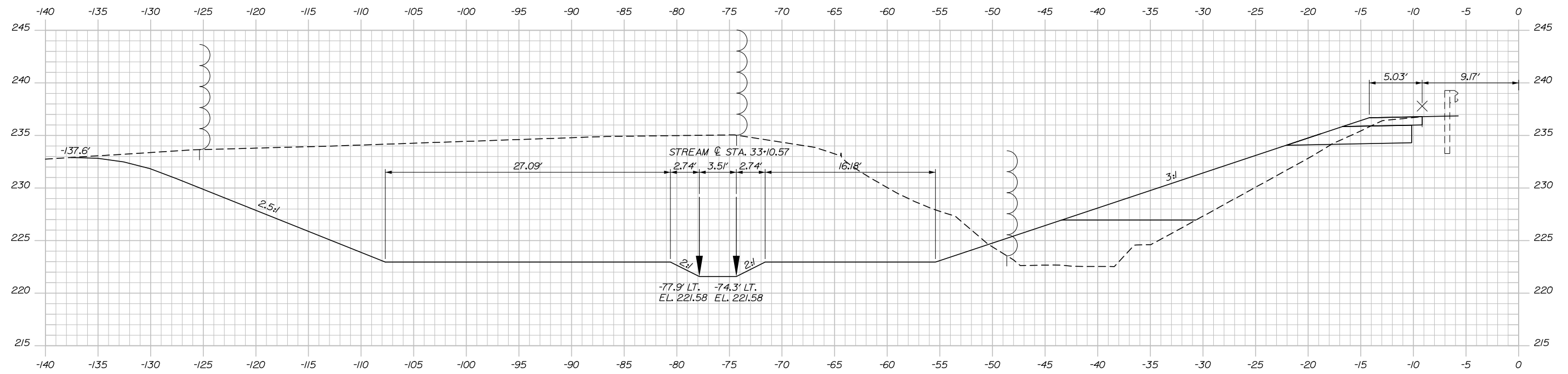
MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

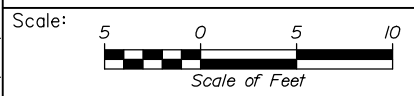
SHEET NUMBER: XS-35

63 OF 84

Date: 5/24/2018



Filename: X:Sect_SlopeRepair.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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MTA PROJECT MANAGER: William Yates

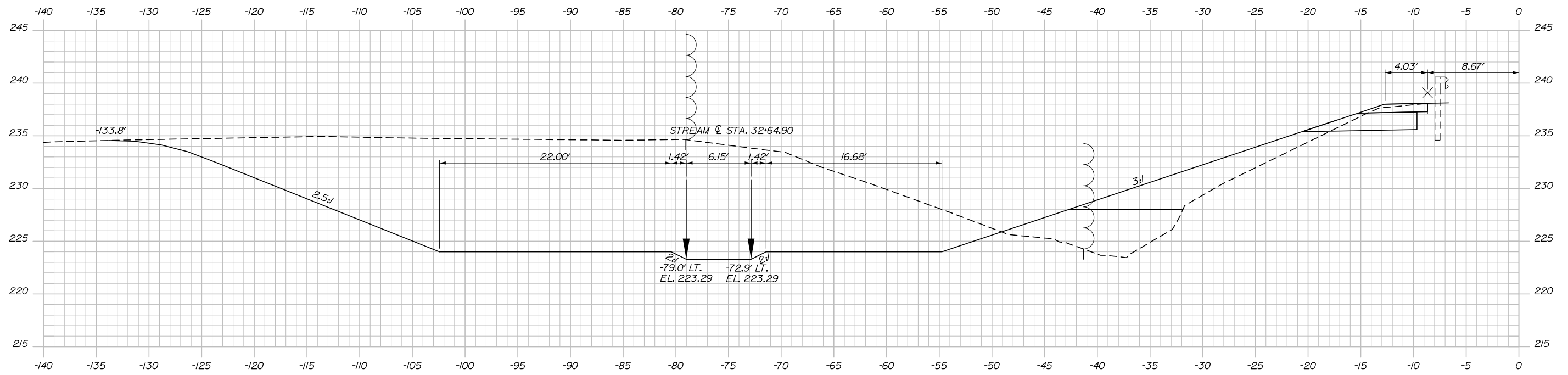
AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
SLOPE REPAIR CROSS SECTIONS
RAMP D - STA. 7+00.00 TO STA. 7+25.00

SHEET NUMBER: XS-36

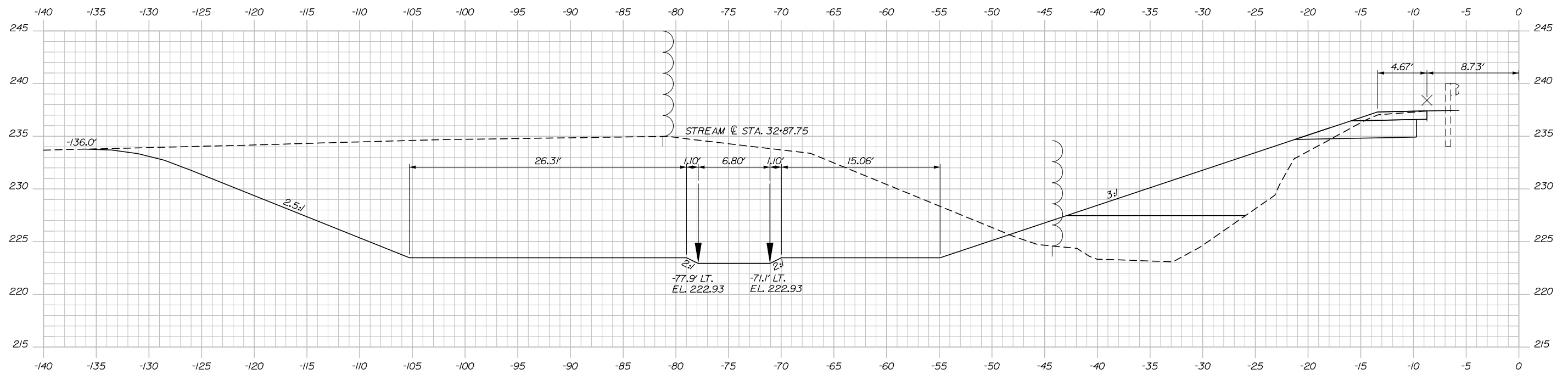
CONTRACT: 2018.17

64 OF 84

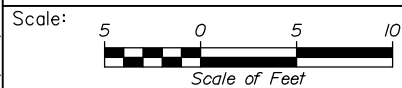
Date: 5/24/2018



7+75.00



7+50.00



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
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MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 SLOPE REPAIR CROSS SECTIONS
 RAMP D - STA. 7+50.00 TO STA. 7+75.00

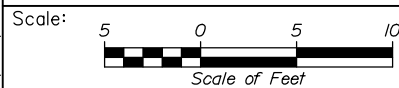
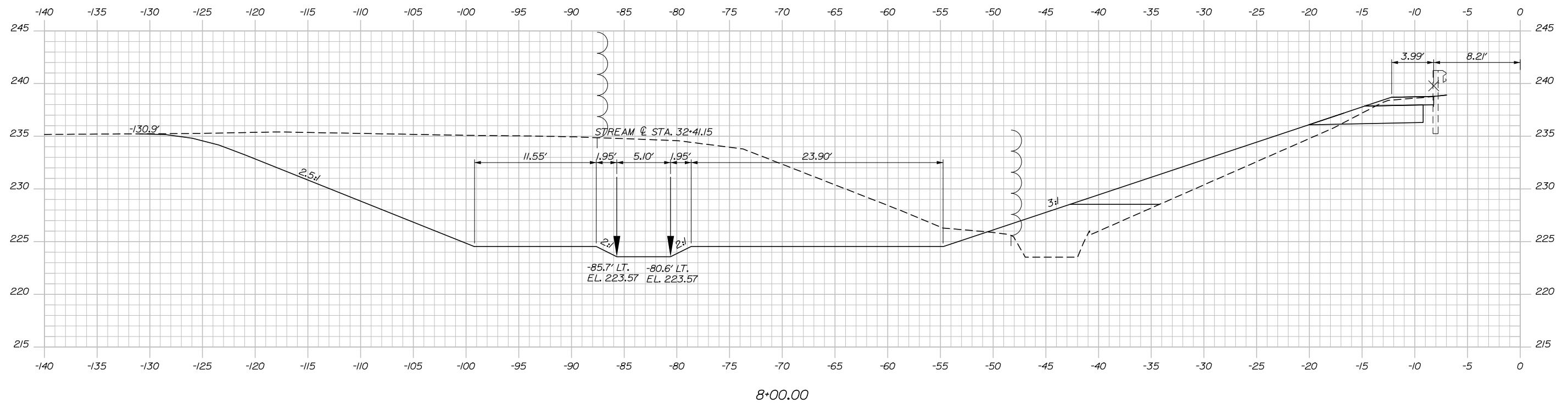
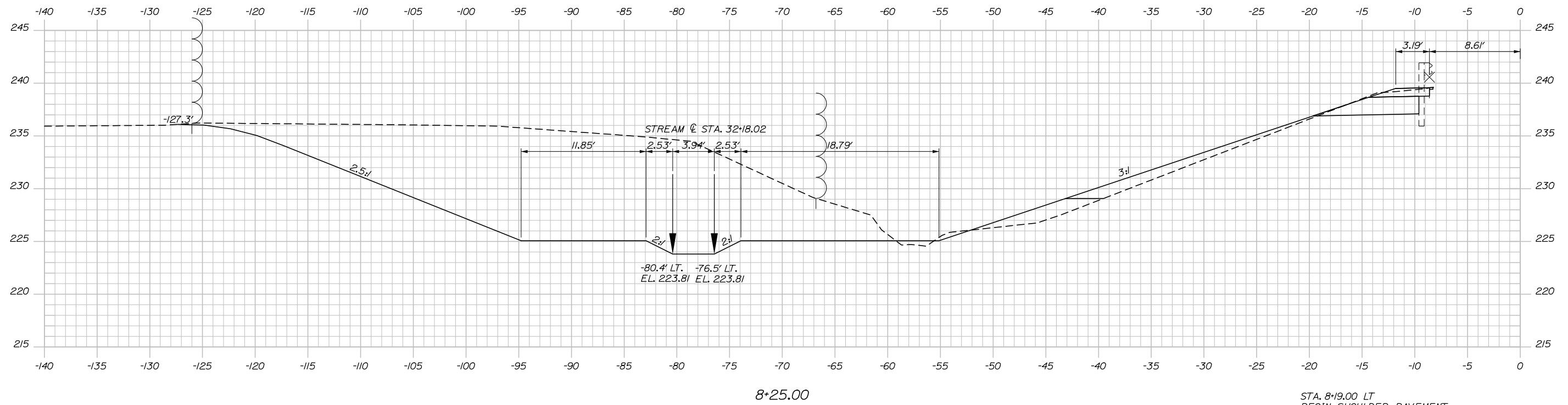
SHEET NUMBER: XS-37

CONTRACT: 2018.17

65 OF 84

Filename: X:Sect_SlopeRepair.dgn

Date: 5/24/2018



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THE GOLD STAR
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AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
SLOPE REPAIR CROSS SECTIONS
RAMP D - STA. 8+00.00 TO STA. 8+25.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

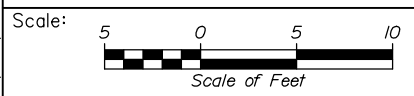
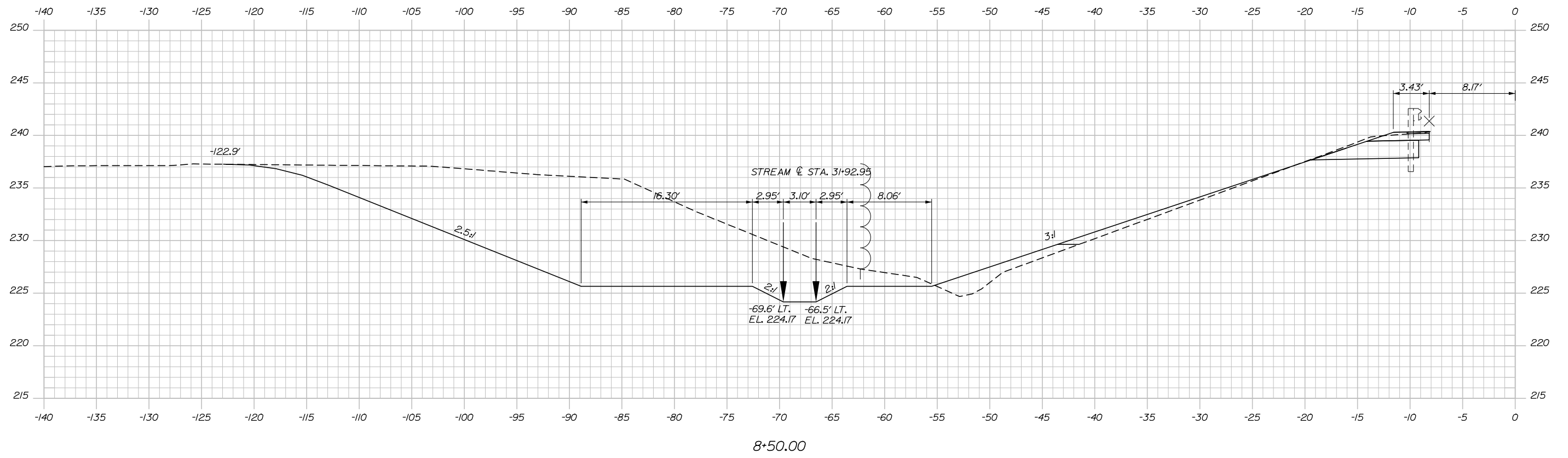
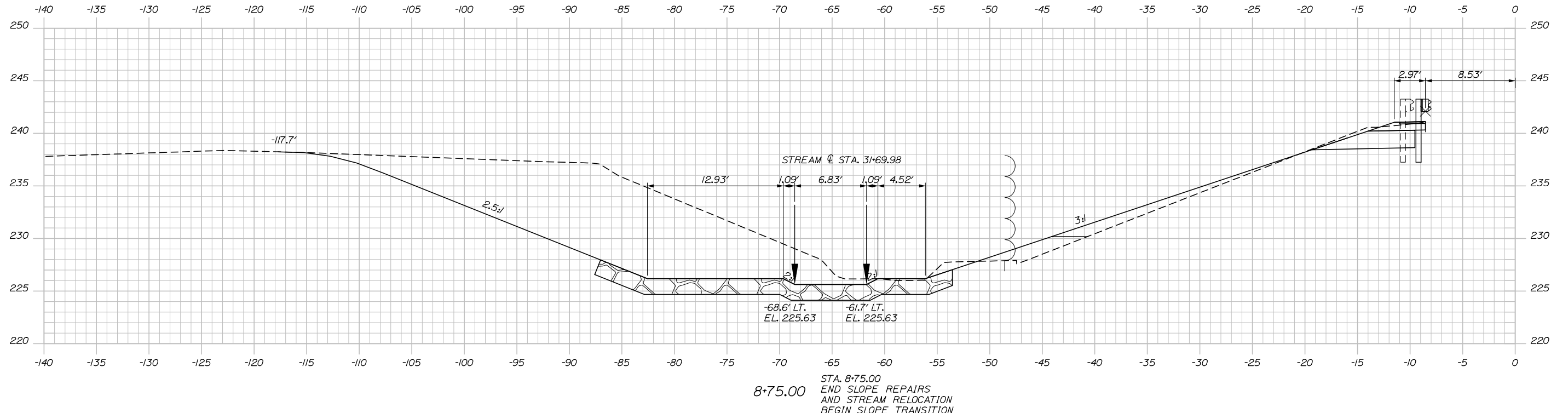
SHEET NUMBER: XS-38

66 OF 84

Filename: X:Sect_SlopeRepair.dgn

Date: 5/24/2018

Filename: X:Sect_SlopeRepair.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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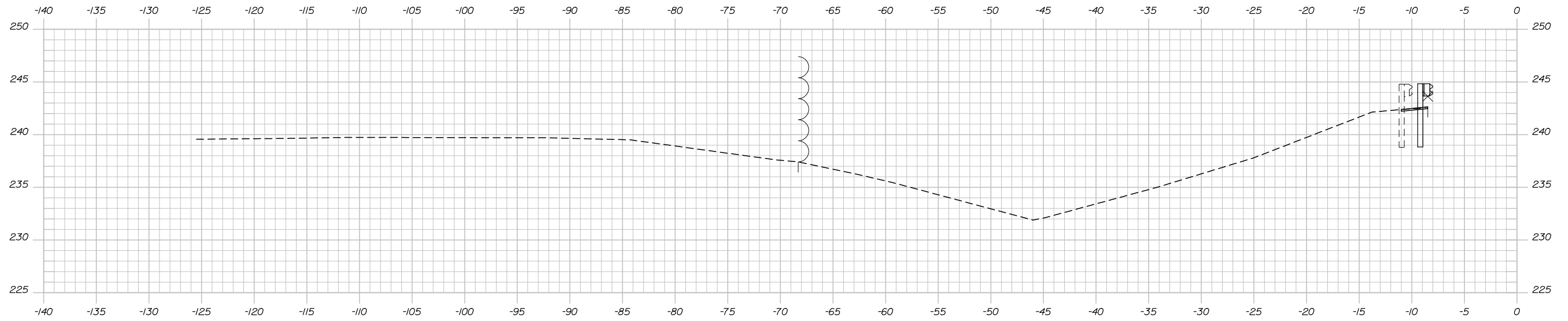


**THE GOLD STAR
 MEMORIAL HIGHWAY**

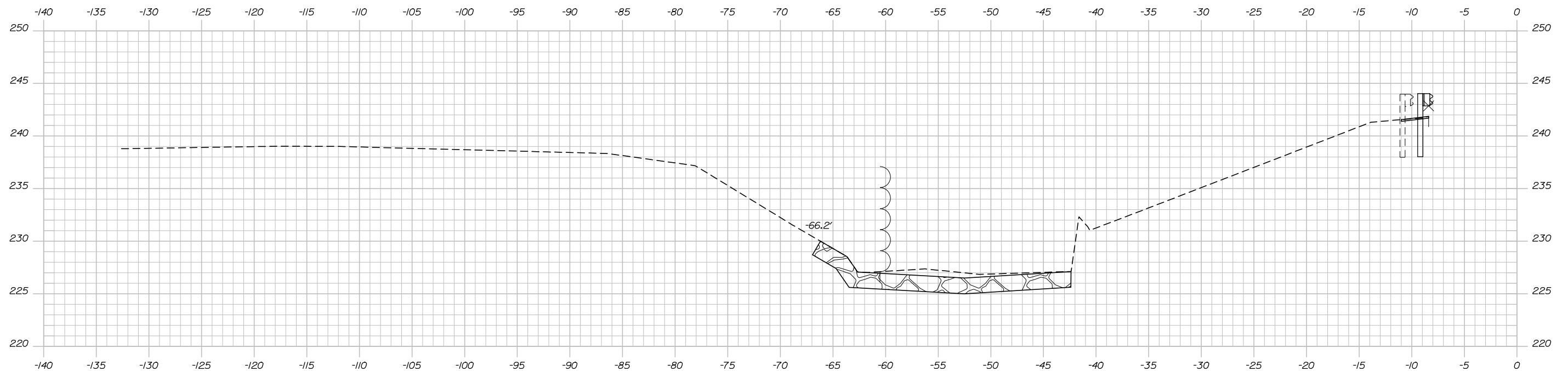
MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 SLOPE REPAIR CROSS SECTIONS
 RAMP D - STA. 8+50.00 TO STA. 8+75.00
 SHEET NUMBER: XS-39
 CONTRACT: 2018.17
 67 OF 84

Date: 5/24/2018



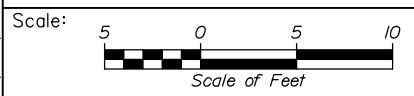
9+25.00



9+00.00

STA. 9+00.00
END SLOPE TRANSITION
MATCH EXISTING

Filename: X:Sect_SlopeRepair.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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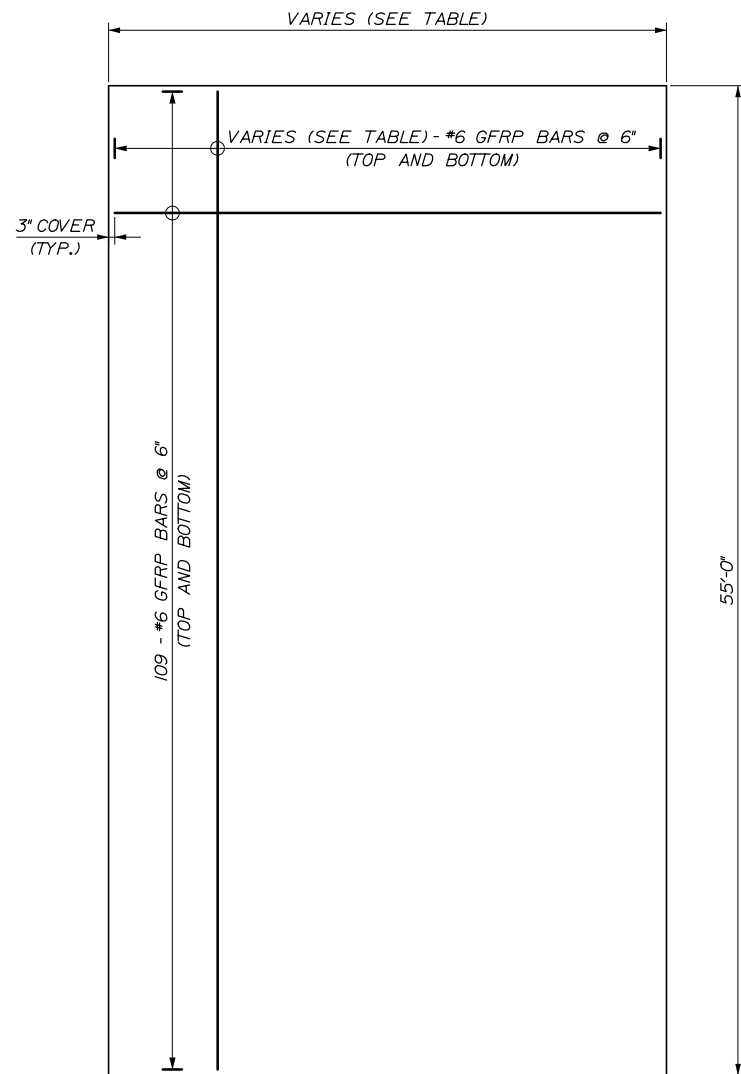


**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION
SLOPE REPAIR CROSS SECTIONS
RAMP D - STA. 9+00.00 TO STA. 9+25.00
SHEET NUMBER: XS-40
CONTRACT: 2018.17
68 OF 84

Date: 5/24/2018

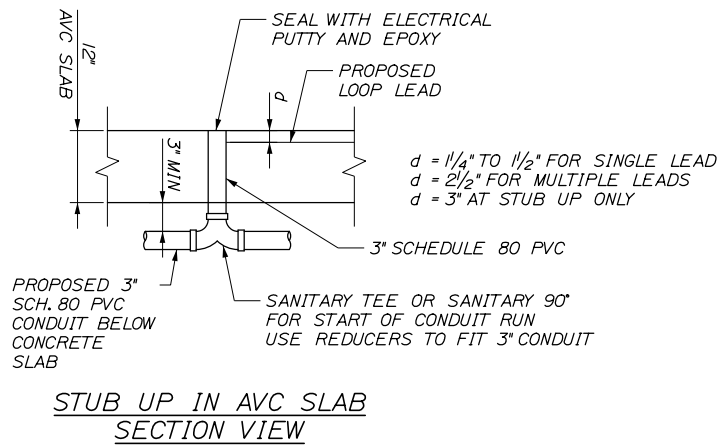


AVC SLAB DETAIL

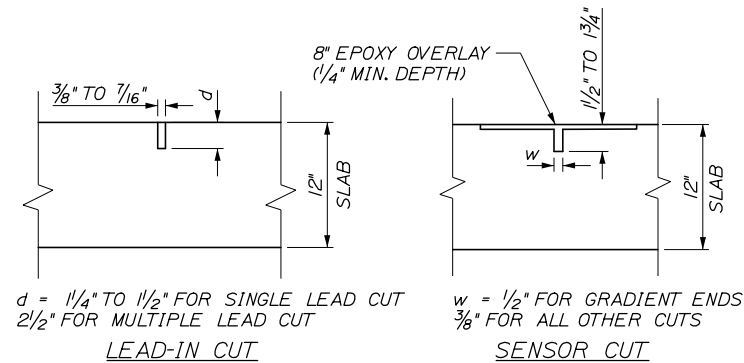
Rebar For AVC Slab				
	Slab A	Slab B	Slab C	Slab D
Width(ft)	22	22	30	32
Length(ft)	55	55	55	55
Rebar Along Width	43	43	59	63
Rebar Dowels	40	0	0	0

AVC SLAB NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT FOUR AVC SLABS, ONE ON EACH RAMP, AS SHOWN ON THE PLANS. EACH SLAB WILL HAVE A SHOULDER SLOPE BREAK BETWEEN THE TRAVEL LANE AND THE MAJOR SHOULDER AS PER THE SLOPES SHOWN ON THE PLANS. THE PROPOSED APPROACH AND DEPARTURE MINOR SHOULDER PAVEMENT SHALL BE WARPED TO MATCH THE AVC SLAB MINOR SHOULDER SLOPES. NO SHOULDER BREAK SHALL BE CONSTRUCTED ON THE AVC SLAB BETWEEN THE TRAVEL LANES AND THE MINOR SHOULDER.
2. EACH AVC SLAB SHALL BE PLACED IN ONE CONTINUOUS PLACEMENT. CONSTRUCTION JOINTS ARE NOT ALLOWED.
3. FINISHING OF AVC SLABS SHALL ADHERE TO WEARING SURFACE TOLERANCES PER 502 SPECIAL PROVISION (502.14).
4. CONCRETE FOR AVC SLABS SHALL BE CLASS AAA DECK WITH 5LBS/CY OF SYNTHETIC FIBER REINFORCING.
5. AVC SLAB SHALL HAVE A BROOM FINISH.
6. ALL REINFORCING BAR SHALL BE GFRP.
7. ALL REINFORCING BAR SUPPORTS AND TIES SHALL BE NON-METALLIC.
8. EACH AVC SLAB WILL REQUIRE APPROXIMATELY 200 LF OF 3" CONDUIT. ALL CONDUIT, FITTINGS, LABOR, AND ALL OTHER MATERIALS REQUIRED FOR CONDUIT INSTALLATION ARE INCIDENTAL TO THE CONCRETE ITEM.
9. THE CONTRACTOR SHALL INSTALL (40) - 3' - #8 GFRP DOWELS BY DRILLING AND EPOXYING THE DOWELS INTO THE SB ENTERING SLAB (MID SLAB - ONE FOOT APART) PRIOR TO PLACING THE SB EXITING SLAB.



*NOTE: SEALING STUB-UPS AND CONDUIT SHALL BE INCIDENTAL TO THE CONCRETE SLAB PAY ITEM.



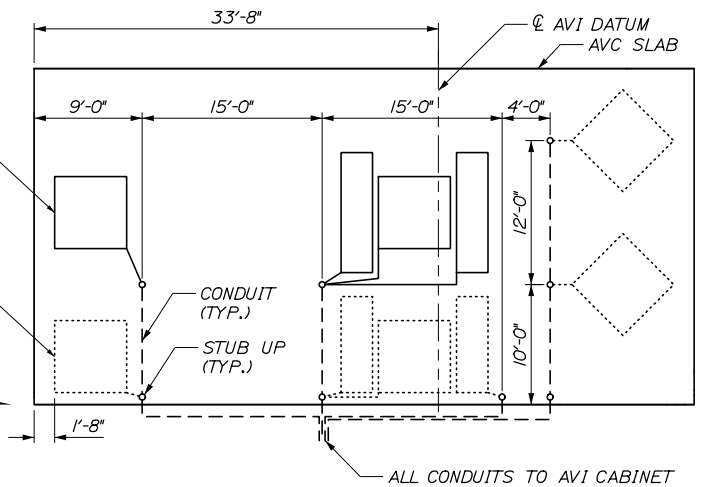
NOTES:

1. TRANSSCORE SHALL INJECT LOCTITE EPOXY INTO SAW CUT BEFORE INSTALLING SENSORS AND LEADS. TRANSSCORE SHALL PROVIDE EQUIPMENT, TEMPLATES AND EPOXY. SEE SPECIAL PROVISIONS SECTION 655 FOR MORE INFORMATION.
2. ALL LAYOUT FOR PRIMARY AND GRADIENT SENSORS SHALL BE VERIFIED BY TRANSSCORE PRIOR TO CUTTING CONCRETE.
3. 1/4" DEPRESSION FOR EPOXY OVERLAY SHALL BE COMPLETED AFTER SAW CUTTING CONCRETE FOR LOOPS.
4. MEASUREMENT FOR ITEM 515.23 EPOXY OVERLAY SHALL BE BY SY.
5. LOOP LAYOUT IS TYPICAL FOR ALL ENTRY LANES.
6. DVAS MOUNTING HARDWARE AND INSTALLATION IS INCIDENTAL TO ITEM 655.02 DVAS MOUNT INSTALLATION.

LOOPS TO BE INSTALLED ON NORTHBOUND AND SOUTHBOUND ON RAMP UNDER THIS CONTRACT (TYP.)

FUTURE LOOPS INSTALLED BY OTHERS (TYP.)

DIRECTION OF TRAVEL



AVC SLAB CONDUIT LAYOUT

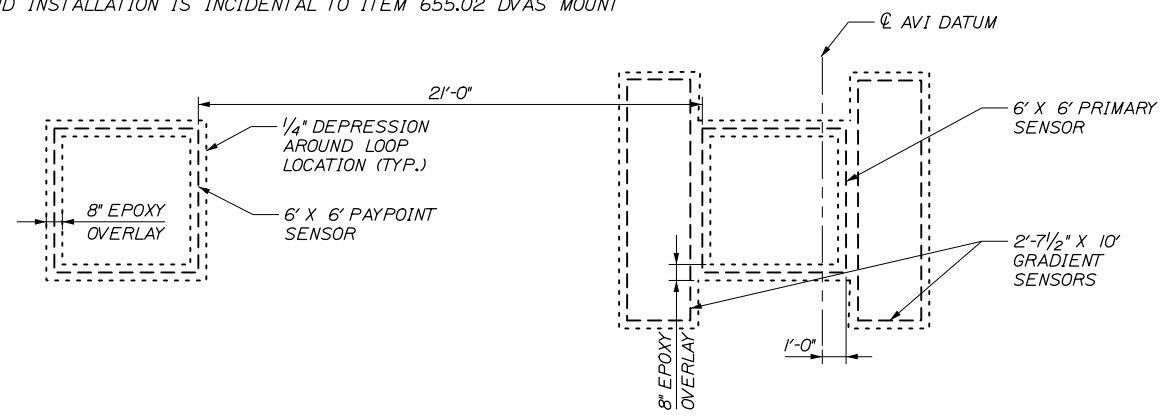
AVC CONDUIT LAYOUT NOTES:

1. CONDUIT AND STUB UP LOCATIONS SHALL BE INSTALLED IN ALL AVC SLAB LOCATIONS IN ACCORDANCE WITH THE DIMENSIONS ABOVE. STUB UP LOCATIONS SHALL BE ACCEPTED BY THE ENGINEER PRIOR TO PLACING CONCRETE SLAB.
2. A MINIMUM 6" OF CONCRETE COVER SHALL BE PROVIDED AROUND ALL STUB UPS.
3. LOOPS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO THE LOOP INSTALLATION DETAIL AND SPECIAL PROVISION 655 FOR MORE INFORMATION REGARDING LOOP INSTALLATIONS.

SOFT CUT JOINT - ELASTOMERIC SEALANT 1 3/4" DEEP x 1/4" WIDE

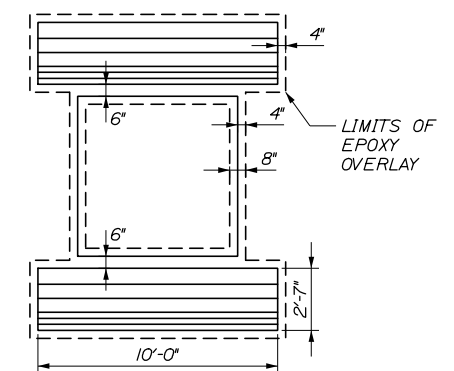


SECTION



LOOP INSTALLATION DETAIL

*NB AND SB ON RAMP ONLY



LOOP DETAIL AND EPOXY OVERLAY

Scale: NOT TO SCALE

Designed by:



No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.						
	By	Date		By	Date	
	Designed	RBM	05\18	Checked	CDH	05\18
	Drawn	EDD	05\18	In Charge of	RAL	05\18

HNTB CORPORATION
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION

AVC SLAB DETAILS

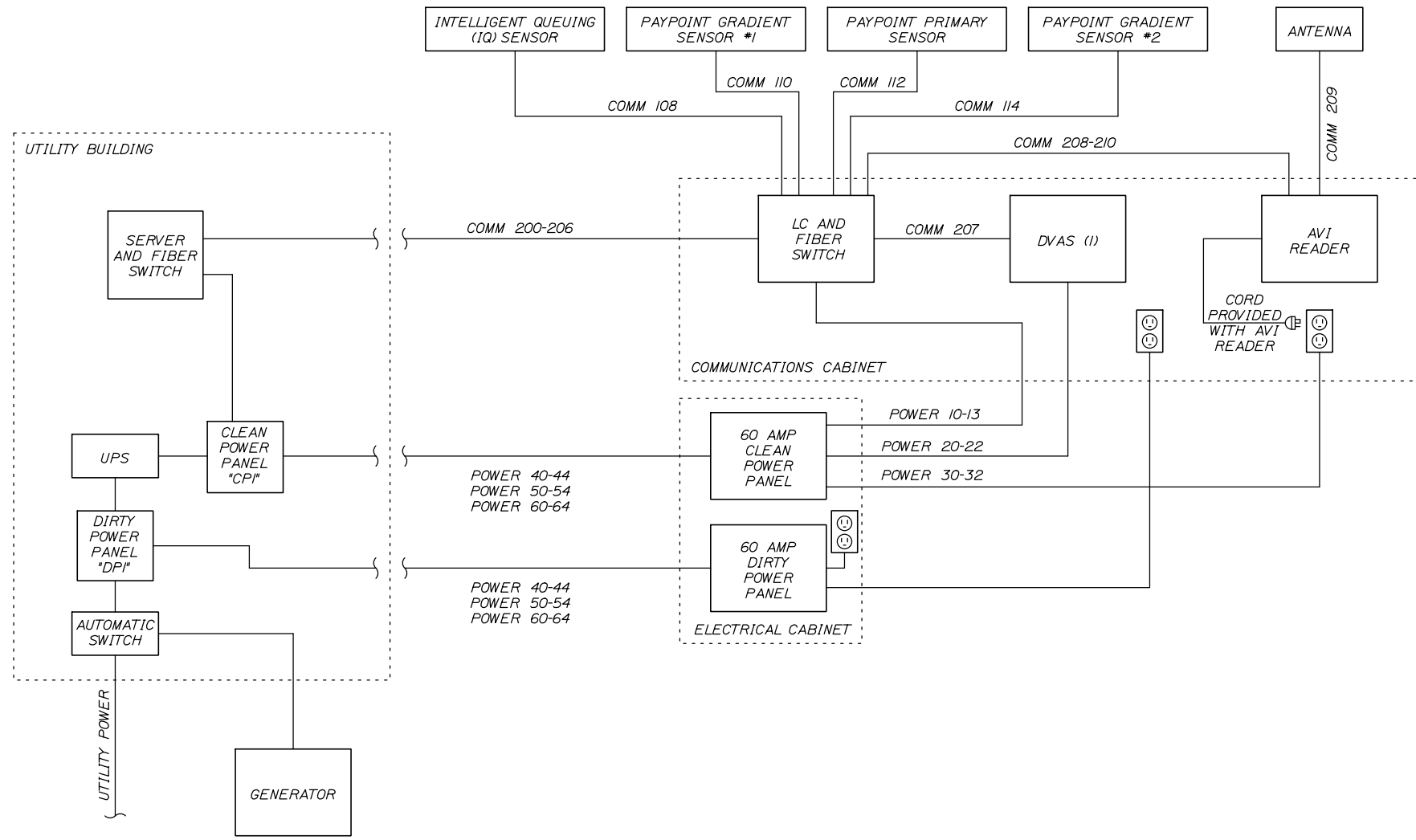
SHEET NUMBER: AV-01

CONTRACT: 2018.17

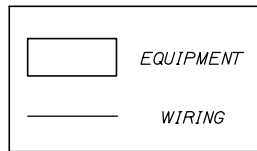
69 OF 84

Filename: 069_avcDets.dgn

Date: 5/24/2018



LEGEND



- NOTE:**
1. NUMBERS CORRESPOND TO NUMBERS LISTED ON WIRING SCHEDULES.
 2. DIAGRAM SHOWN FOR ALL EXIT 75 TOLL LANES
 3. ALL WIRING AND EQUIPMENT FOR ALL EXIT 75 TOLL LANES

TOLLING EQUIPMENT SYSTEMS DIAGRAM
SCALE: NTS

Filename: 070_WiringDiagram_Sabattus.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
Designed	RBM	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION

POWER & COMMUNICATIONS
LINE DIAGRAM



SHEET NUMBER: T-01

CONTRACT: 2018.17 70 OF 84

Date: 5/24/2018

WIRING SHOWN IS FOR ONE TOLLED LANE. REPLICATE FOR NORTHBOUND AND SOUTHBOUND ENTRY RAMP ONLY									
ATT/ETC DISCRETE WIRING SCHEDULE - DATA: DOOR WIRING LOGIC, SERIAL, VIDEO, AUDIO (Primary Server)									
Intelligent Vehicle Identification System (IVIS) (For Wiring Only. Home Run Lead supplied as part of Sensor)									
	WIRE LABEL	DESCRIPTION	AWG	COLOR	CORE	STANDARD	FROM	TO	TERMINATIONS
100	T4-49.IQ	INTELLIGENT QUEUING (IQ) SENSOR	16	BLACK	STRANDED	IMSA50-2	INTELLIGENT QUEUING (IE SENSOR)	SENSORS COME WITH 80' PIGTAIL. IF ADDITIONAL WIRE NEEDED SPLICE TO IMSA-50-2 TYPE CABLE. INSTALL THE HOME RUN CABLE FROM THE LANE GROUND BOX TO THE LANE SERVER CONNECTION SPECIFIED IN THE ADJ COLUMN. ALL SPLICES MUST BE SOLDERED, TIGHTLY TWISTED, AND INSULATED TO BE WATER RESISTANT. FOR LANES NOT HAVING PRE_CLASSIFICATION, DELETE REQUIREMENTS FOR PRE_CLASSIFICATION SENSORS AND INTELLIGENT QUEUING SENSOR	Integrator to terminate
101	T4-50.IQ		Integrator to terminate						
102	T4-51.G1	PAYPOINT GRADIENT SENSOR #1	16	BLACK	STRANDED	IMSA50-2	POST-CLASSIFICATION GRADIENT SENSOR #1		Integrator to terminate
103	T4-52.G1		Integrator to terminate						
104	T4-53.FP	PAYPOINT PRIMARY SENSOR	16	BLACK	STRANDED	IMSA50-2	POST-CLASSIFICATION PRIMARY SENSOR		Integrator to terminate
105	T4-54.FP		Integrator to terminate						
106	T4-55.G2	PAYPOINT GRADIENT SENSOR #2	16	BLACK	STRANDED	IMSA50-2	POST-CLASSIFICATION GRADIENT SENSOR #2		Integrator to terminate
107	T4-56.G2		Integrator to terminate						
108	T4-57.IQ	RIGHT SHOULDER INTELLIGENT QUEUING (IQ) SENSOR (NOT USED)	16	BLACK	STRANDED	IMSA50-2	SHOULDER IQ PRIMARY SENSOR JUNCTION BOX		Integrator to terminate
109	T4-58.IQ		Integrator to terminate						
110	T4-59.G1	RIGHT SHOULDER PAYPOINT GRADIENT SENSOR #1 (NOT USED)	16	BLACK	STRANDED	IMSA50-2	SHOULDER PAYPOINT ARRAY GRADIENT SENSOR #1 JUNCTION BOX		Integrator to terminate
111	T4-60.G1		Integrator to terminate						
112	T4-61.FP	RIGHT SHOULDER PAYPOINT PRIMARY SENSOR (NOT USED)	16	BLACK	STRANDED	IMSA50-2	SHOULDER PAYPOINT ARRAY PRIMARY SENSOR JUNCTION BOX		Integrator to terminate
113	T4-62.FP		Integrator to terminate						
114	T4-63.G2	RIGHT SHOULDER PAYPOINT GRADIENT SENSOR #2 (NOT USED)	16	BLACK	STRANDED	IMSA50-2	SHOULDER PAYPOINT ARRAY GRADIENT SENSOR #2 JUNCTION BOX		Integrator to terminate
115	T4-64.G2		Integrator to terminate						
116	ORT(ORT#), MS/1_D1	MEDIAN SHOULDER TRAVEL LANE DIAMOND SENSOR (NOT USED)	16	BLACK	STRANDED	IMSA50-2	SHOULDER DIAMOND SENSOR JUNCTION BOX	IVIS SENSOR LEADS ARE SPLICED TO A HOME RUN CABLE (IMSA 50-2, 16AWG) AT THE JUNCTION BOX. THE HOME RUN CABLE IS TERMINATED BY SI AT THE SERVER FIELD WIRING RACK. LEAVE 10' SLACK LOOP IN ELECTRICAL GUTTER.	Integrator to terminate
117	ORT(ORT#), 1/RS_D2	TRAVEL LANE / RIGHT SHOULDER DIAMOND SENSOR (NOT USED)	16	BLACK	STRANDED	IMSA50-2	SHOULDER DIAMOND SENSOR JUNCTION BOX		Integrator to terminate
118	ORT(ORT#), OS_D3	RIGHT SHOULDER OUTSIDE HALF DIAMOND (NOT USED)	16	BLACK	STRANDED	IMSA50-2	SHOULDER DIAMOND SENSOR JUNCTION BOX	HALF DIAMOND SENSOR LEADS ARE SPLICED TO A HOME RUN CABLE (IMSA 50-2, 16AWG) AT THE JUNCTION BOX. THE HOME RUN CABLE IS TERMINATED BY SI AT THE SERVER FIELD WIRING RACK. LEAVE 10' SLACK LOOP IN ELECTRICAL GUTTER.	Integrator to terminate
Notes:									
1.) Lane Server to peripheral cable pin connections - refer to peripheral Installation Guide. RJ-45 at Lane Server: 1=C/S, 2=CD, 3=RxD, 4=Gnd, 5=Gnd, 6=TxD, 7=DTR, 8=RTS. (No handshaking is used)									

Filename: 071_DataSchedule.dgn

Scale: NOT TO SCALE		Designed by:				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY		AUBURN - EXIT 75 TOLL SYSTEM UPGRADES AND STREAM RELOCATION DATA SCHEDULE	
No.	Revision	By	Date										
				By	Date	Checked	By	Date	SHEET NUMBER: T-02		71 OF 84		
				Designed	RBM 05\18	CDH 05\18							
				Drawn	EDD 05\18	In Charge of	RAL 05\18						

Date: 5/24/2018

WIRING SHOWN IS FOR ONE TOLLED LANE. REPLICATE FOR SIMILAR LANES.													
ATT/ETC LANE TYPE POWER WIRING SCHEDULE													
	WIRE LABEL <small>(SOURCE, CIRCUIT, DESTINATION)</small>	DESCRIPTION	AWG	COLOR	CORE	JACKET	VOLTAGE	CIRCUIT BREAKER	FROM	TO	LANE SERVER TERMINAL #	TERMINATION REQUIREMENTS	TERMINATIONS
LANE SERVER													
10	(LANE CONTROLLER).LS.T1-1	LANE SERVER POWER (HOT, NON-SWITCHED)	12	BLACK OR PER LOCAL CODE	STRANDED	THHW	120 VAC	20	60 AMP CLEAN POWER SUB-PANEL ASSIGNED CIRCUIT BREAKER	LANE CONTROLLER FIELD WIRING (T1) TERMINAL BLOCK	T1-1	BARE WIRE (Capped and Taped for termination by SI)	POWER PANEL
11	(LANE CONTROLLER).N.LS.T1-2	LANE SERVER POWER (NEUTRAL)		WHITE							T1-2		POWER PANEL
12	(LANE CONTROLLER).LS.T1-3	LANE SERVER POWER (GROUND)		GREEN							T1-4		POWER PANEL
13	(LANE CONTROLLER)IG.LS.T1-4	LANE SERVER POWER (ISOLATED GROUND)	2	GREEN W/ WHITE STRIPE							T1-3		POWER PANEL
LANE DIGITAL VIDEO AND AUDIT CAMERA (DVAS)													
20	(Primary Power Panel).PP	LANE DVAS PAY POINT CAMERA ENCLOSURE POWER (HOT - KEY SWITCHED)	12	BLACK OR PER LOCAL CODE	STRANDED	THHW	120 VAC	N/A	60 AMP CLEAN POWER SUB-PANEL ASSIGNED CIRCUIT BREAKER	DVAS CAMERA ENCLOSURE FIELD WIRING POWER STRIP	N/A	BARE WIRE (Capped and Taped for termination by SI)	POWER PANEL
21	(Primary Power Panel).N.PP	LANE DVAS PAY POINT CAMERA ENCLOSURE POWER (NEUTRAL)		WHITE									POWER PANEL
22	(Primary Power Panel).G.PP	LANE DVAS PAY POINT CAMERA ENCLOSURE POWER (GROUND)		GREEN									POWER PANEL
AUTOMATIC VEHICLE IDENTIFICATION (AVI)													
30	(Primary Power Panel).L.AVI	LANE AVI READER QUAD POWER (AC HOT)	12	BLACK OR PER LOCAL CODE	STRANDED	THHW	120 VAC	20	60 AMP CLEAN POWER SUB-PANEL ASSIGNED CIRCUIT BREAKER	AVI READER	N/A	DUPLEX OUTLET	POWER PANEL
31	(Primary Power Panel).N.AVI	LANE AVI READER QUAD POWER (AC NEUTRAL)		WHITE									POWER PANEL
32	(Primary Power Panel).G.AVI	LANE AVI QUAD READER (GROUND)		GREEN									POWER PANEL
60 AMP PANEL SERVING NB EXIT LANE - CIRCUIT "A" CLEAN/DIRTY													
40	(Panel #)(Ckt #)H1.UPS	POWER (120V-HCT)	2	BLACK	STRANDED	THHW	240 VAC		MAIN CLEAN POWER PANEL "CP1"	60 AMP CLEAN POWER SUB-PANEL ASSIGNED CIRCUIT BREAKER	N/A	PER LOCAL CODE	POWER PANEL
41	(Panel #)(Ckt #)H2.UPS	POWER (120V-HCT)		RED									POWER PANEL
42	(Panel #)(Ckt #)N.UPS	POWER (120V-NEUTRAL)		WHITE									POWER PANEL
43	(Panel #).G	GROUND	2	GREEN									POWER PANEL
44	(Panel #).IG	ISOLATED GROUND (CLEAN ONLY)	2	GREEN W/ YELLOW STRIPE									POWER PANEL
60 AMP PANEL SERVING NB ENTRY LANE - CIRCUIT "B" CLEAN/DIRTY													
50	(Panel #)(Ckt #)H1.UPS	POWER (120V-HCT)	2	BLACK	STRANDED	THHW	240 VAC		MAIN CLEAN POWER PANEL "CP1"	60 AMP CLEAN POWER SUB-PANEL ASSIGNED CIRCUIT BREAKER	N/A	PER LOCAL CODE	POWER PANEL
51	(Panel #)(Ckt #)H2.UPS	POWER (120V-HCT)		RED									POWER PANEL
52	(Panel #)(Ckt #)N.UPS	POWER (120V-NEUTRAL)		WHITE									POWER PANEL
53	(Panel #).G	GROUND	2	GREEN									POWER PANEL
54	(Panel #).IG	ISOLATED GROUND (CLEAN ONLY)	2	GREEN W/ YELLOW STRIPE									POWER PANEL
60 AMP PANEL SERVING SB ENTRY/EXIT LANE - CIRCUIT "C" CLEAN/DIRTY													
60	(Panel #)(Ckt #)H1.UPS	POWER (120V-HCT)	2	BLACK	STRANDED	THHW	240 VAC		MAIN CLEAN POWER PANEL "CP1"	60 AMP CLEAN POWER SUB-PANEL ASSIGNED CIRCUIT BREAKER	N/A	PER LOCAL CODE	POWER PANEL
61	(Panel #)(Ckt #)H2.UPS	POWER (120V-HCT)		RED									POWER PANEL
62	(Panel #)(Ckt #)N.UPS	POWER (120V-NEUTRAL)		WHITE									POWER PANEL
63	(Panel #).G	GROUND	2	GREEN									POWER PANEL
64	(Panel #).IG	ISOLATED GROUND (CLEAN ONLY)	2	GREEN W/ YELLOW STRIPE									POWER PANEL

Filename: 072_PowerSchedule.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	RBM	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION



POWER SCHEDULE

SHEET NUMBER: T-03
 CONTRACT: 2018.17
 72 OF 84

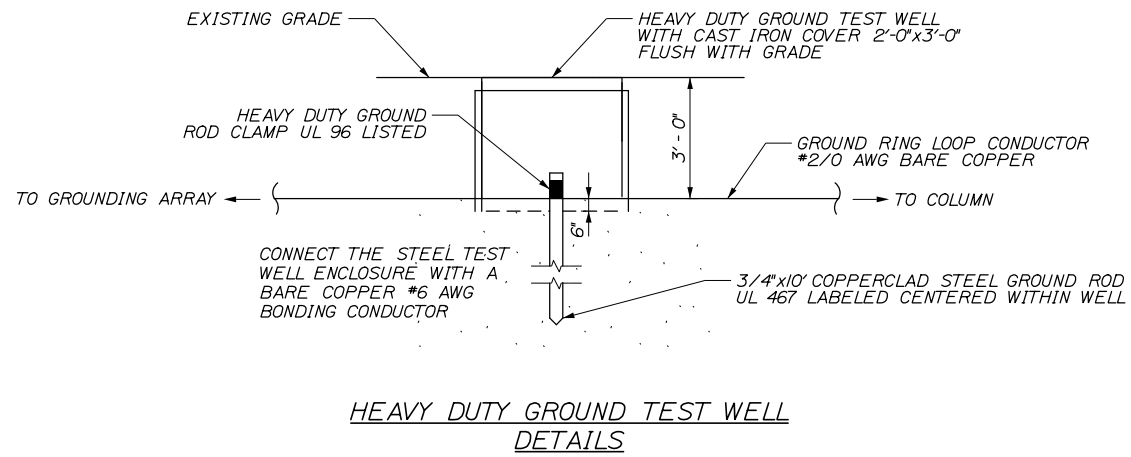
Date: 5/24/2018

WIRING SHOWN IS FOR ONE TOLLED LANE. REPLICATE FOR SIMILAR LANES.								
ATT-ETC LANE NETWORK WIRING SCHEDULE								
LANE SERVER MULTIMODE FIBER (FOR REMOTE SWITCH ACCESS)								
	WIRE LABEL	DESCRIPTION	COLOR	CONNECTOR AT FX PATCH PANEL (COMPUTER ROOM)	COMMUNICATIONS SWITCH IN THE LANE SERVER	WIRING CONVENTION	PROTOCOL	FIELD WIRING INSTRUCTIONS
200	(Ln#)LS	LANE SERVER NETWORK CONNECTION - SEND	BLUE	ST (MALE)	ST (MALE)	6-FIBER (TYP) (4 Min Fiber) MULTI-MODE 100mbs	62.5/125 MICRONS INDOOR/OUTDOOR RISER RATED	FROM PLAZA COMMUNICATIONS RACK FIBER (FX) PATCH PANEL TO THE LANE SERVER FIBER LINE INTERFACE UNIT (LIU) IN THE COMMUNICATIONS CABINET. PROVIDE 1 EA 3M DUPLEX FX PATCH CABLE (STM to STM) FROM THE LIU TO THE LANE SERVER NETWORK SWTCH.
201		LANE SERVER NETWORK CONNECTION - RECEIVE	ORANGE					
202		LANE SERVER NETWORK CONNECTION - SPARE SEND	GREEN					
203		LANE SERVER NETWORK CONNECTION - SPARE RECEIVE	BROWN					
204		LANE SERVER NETWORK CONNECTION - SPARE SEND (optional)	SLATE					
205		LANE SERVER NETWORK CONNECTION - SPARE RECEIVE (optional)	WHITE					
LANE SERVER ETHERNET CONNECTION (FOR LOCAL SWITCH -SAME ROOM- ACCESS)								
206	(Ln#).LS	LANE SERVER NETWORK CONNECTION (CAT5E/6 CABLE ALTERNATIVE TO FIBER ABOVE IF LOCAL SWITCH PROVIDED AND CONNECTION IS LESS THAN 300 FEET)	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	CAT5E/6 DIRECT BURIAL	UTP	CAT5E BULK CABLE FROM THE SERVER ROOM TO THE LANE CABINET FIBER SWITCH LANE SERVER SWITCH. TERMINATE AND TEST CABLE RUN.
DIGITAL VIDEO AUDIT SYSTEM (DVAS)								
207	DVAS.(Ln#).FP	LANE DVAS PAYPOINT CAMERA NETWORK CONNECTIONS	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	CAT5E/6 DIRECT BURIAL	UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER AND FIBER SWITCH TO THE LANE DVAS PAY POINT CAMERA. TERMINATE AND TEST CABLE RUN. ALLOW 10' OF CABLE TO REACH FROM THE DVAS DATA JUNCTION BOX TO THE LANE CAMERA ENCLOSURE.
AUTOMATIC VEHICLE IDENTIFICATION (AVI)								
208	(Ln#).AVI.LN(#)	TRAVEL LANE AVI ANTENNA RF CABLE	BLACK	LANE ANTENNA IN THE GANTRY	"N" CONNECTOR (MALE)	LMR 400	PVC	CAT5E BULK CABLE FROM THE LANE CONTROLLER CONNECTION PANEL AVI 110 JACK TO THE LANE AVI READER SERIAL TO ETHERNET CONVERTER
209	(Ln#).AVIE	LANE AVI READER ETHERNET DATA CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	CAT5E/6 DIRECT BURIAL	10/100 UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER CONNECTION PANEL AVI 110 JACK TO THE LANE AVI READER SERIAL TO ETHERNET CONVERTER
210	(Ln#).AVIS	LANE AVI READER DATA CONNECTION	CAT5E COLOR STANDARD	RJ-45 (MALE)	RJ-45 (MALE)	CAT5E/6 DIRECT BURIAL	10/100 UTP	CAT5E BULK CABLE FROM THE LANE CONTROLLER CONNECTION PANEL AVI 110 JACK TO THE LANE AVI READER SERIAL TO ETHERNET CONVERTER
NOTES:								
1). ALL NETWORK CABLES ARE GIGABIT COMPLIANT, SUITABLE FOR OUTDOOR/WET ENVIRONMENT, OSP GRADE FOR DIRECT BURIAL								
2). STRADDLE ANTENNAS/READERS ARE LOCATED BETWEEN LANES ABOVE THE STRIPE. IF STRADDLE ANTENNAS/READERS ARE OMITTED BY PLANS, WIRING MAY BE OMITTED								

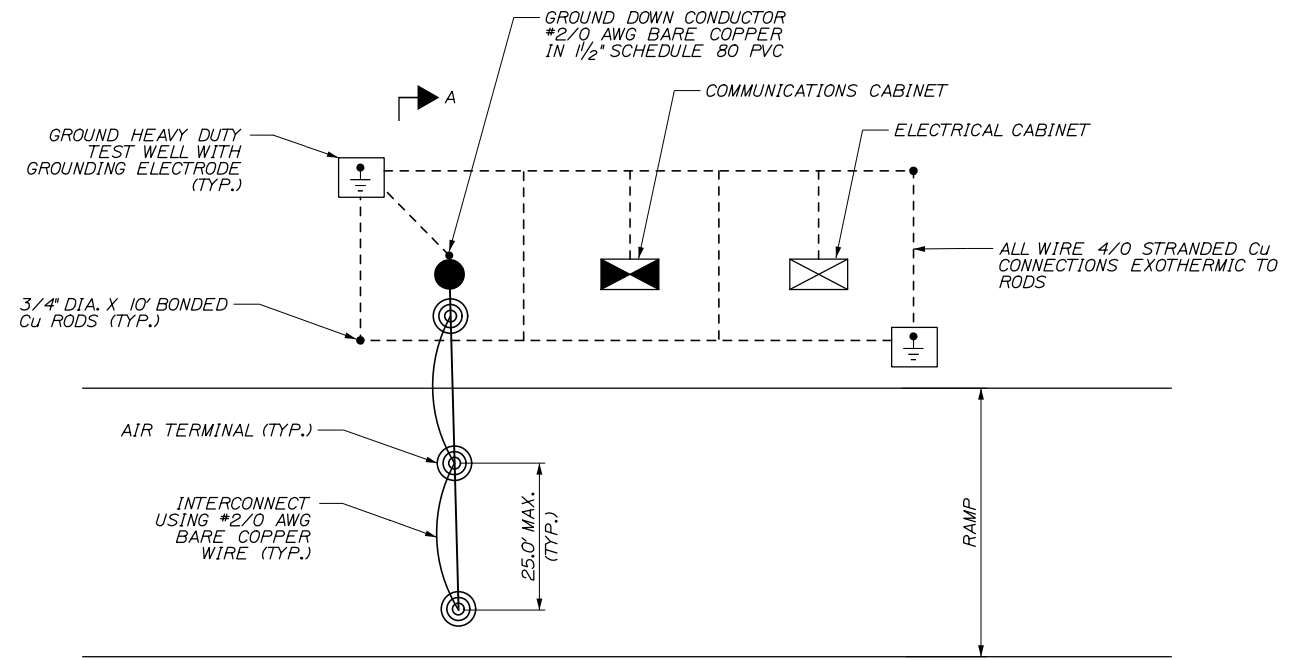
Filename: 073_NetworkWiringSchedule.dgn

Scale: NOT TO SCALE		Designed by:				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				THE GOLD STAR MEMORIAL HIGHWAY		AUBURN - EXIT 75 TOLL SYSTEM UPGRADES AND STREAM RELOCATION NETWORK WIRING SCHEDULE	
No.	Revision	By	Date										
				Designed	RBM	05\18	Checked	CDH	05\18				
				Drawn	EDD	05\18	In Charge of	RAL	05\18				73 OF 84

Date: 5/24/2018

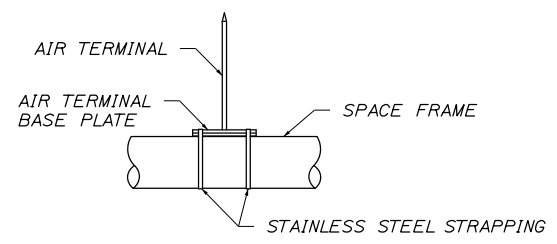


**HEAVY DUTY GROUND TEST WELL
DETAILS**

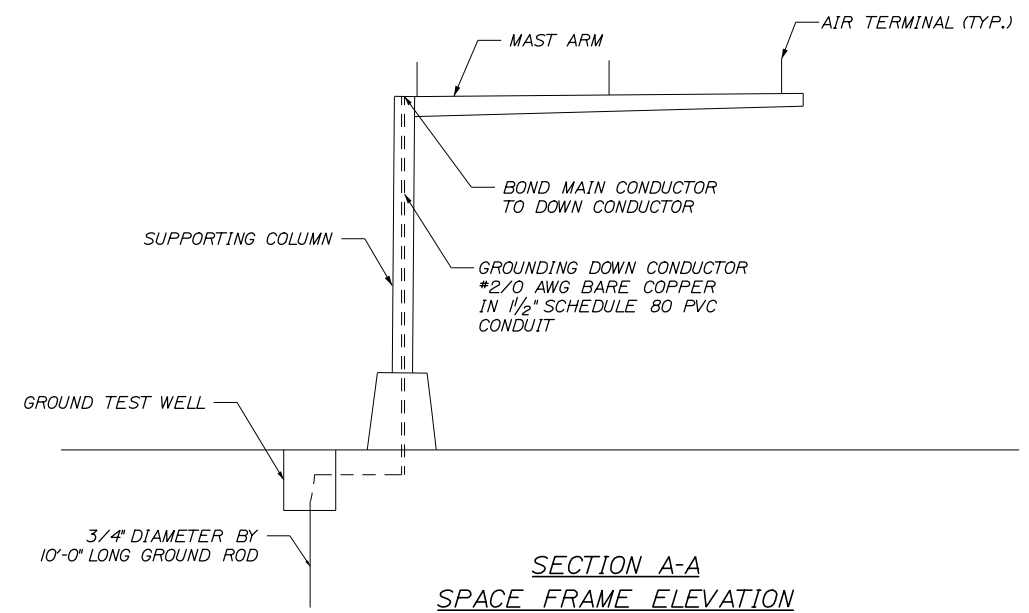


ENTRY/EXIT LANE LIGHTNING SUPPRESSION
ALL LANES SIMILAR

LEGEND
 AIR TERMINAL
 #2/0 AWG BARE COPPER WIRE



AIR TERMINAL MOUNTING DETAIL



**SECTION A-A
SPACE FRAME ELEVATION**

NOTES:

1. ALL WORK SHALL BE PROVIDED IN FULL CONFORMANCE WITH UL96A AND WITH NFPA 780.
2. SPACING OF AIR TERMINALS SHALL NOT EXCEED 25 FEET ON CENTERS.
3. CONDUCTOR BENDS SHALL NOT FORM AN INCLUDED ANGLE LESS THAN 90 DEGREES OR HAVE A RADIUS OF BEND LESS THAN 8 INCHES.
4. LIGHTNING PROTECTION AIR TERMINALS TO BE INSTALLED ON THE MAST ARM SHALL BE 24" TALL.

Filename: 074_Lighting Suppression System.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date		By	Date
	RBM	05\18	Checked	CDH	05\18
	Drawn	EDD	In Charge of	RAL	05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION

LIGHTNING SUPPRESSION SYSTEM

SHEET NUMBER: T-05
 CONTRACT: 2018.17
 74 OF 84

SPECIFICATIONS

GANTRIES:
 - AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION.

DESIGN LOADING

WIND LOAD - BASIC WIND SPEED (V) 95 MPH
 ICE LOAD 3.0 PSF

MATERIALS

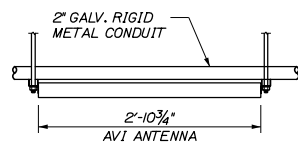
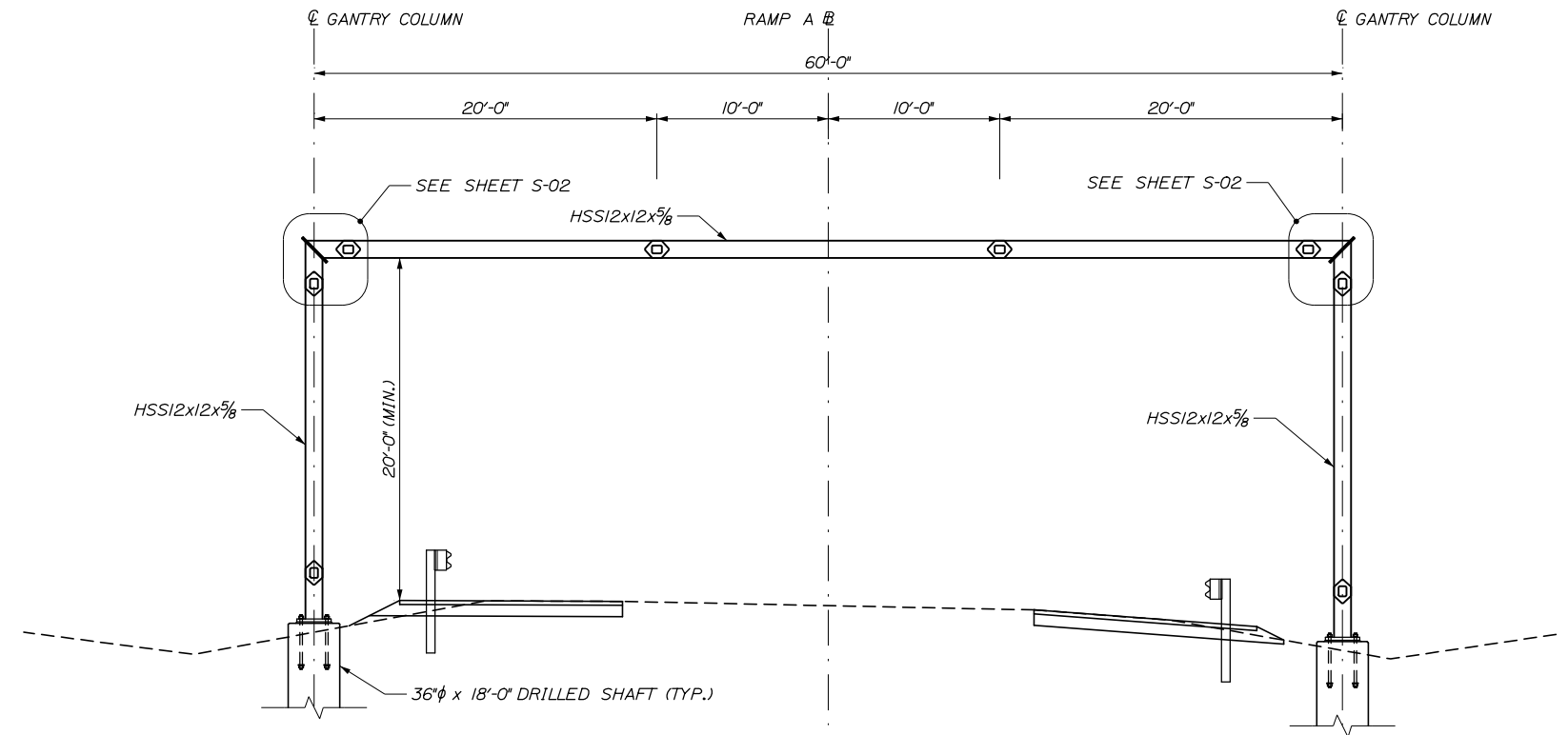
STRUCTURAL STEEL:
 ALL MATERIAL (EXCEPT AS NOTED) ASTM A 709, GRADE 50
 HSS SECTIONS ASTM A500, GRADE B
 HIGH STRENGTH BOLTS ASTM A 325, TYPE 3
 ANCHOR RODS ASTM F1554, GRADE 55

BASIC DESIGN STRESSES

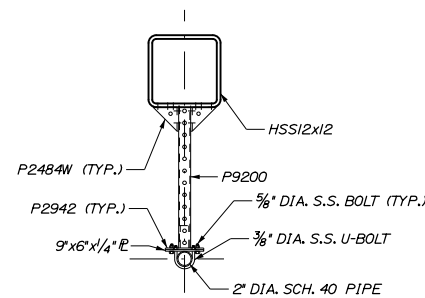
STRUCTURAL STEEL
 ASTM A 709, GRADE 50 Fy = 50,000 PSI
 ASTM A 500, GRADE B (SQUARE HSS) Fy = 46,000 PSI
 ASTM A 325 Fu = 120,000 PSI
 ASTM F 1554, GRADE 55 Fy = 55,000 PSI

CONSTRUCTION NOTES:

1. ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. ALL ANCHOR RODS SHALL BE SWEDGED OR THREADED ON THE EMBEDDED PORTION OF THE ROD.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE FABRICATION.
4. AVI MOUNTING FRAME SHALL BE GALVANIZED UNISTRUT MEMBERS, AND SHALL BE INCIDENTAL TO THE STRUCTURAL STEEL ITEM 504.6I.



AVI ANTENNA ELEVATION



AVI ANTENNA FRAME

Date: 5/24/2018

Filename: 075_GeneralNotes And Plan.dgn

Scale:			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.			
	By	Date	
Designed	GLS	09/17	Checked JDW 09/17
Drawn	PEB	09/17	In Charge of RAL 09/17

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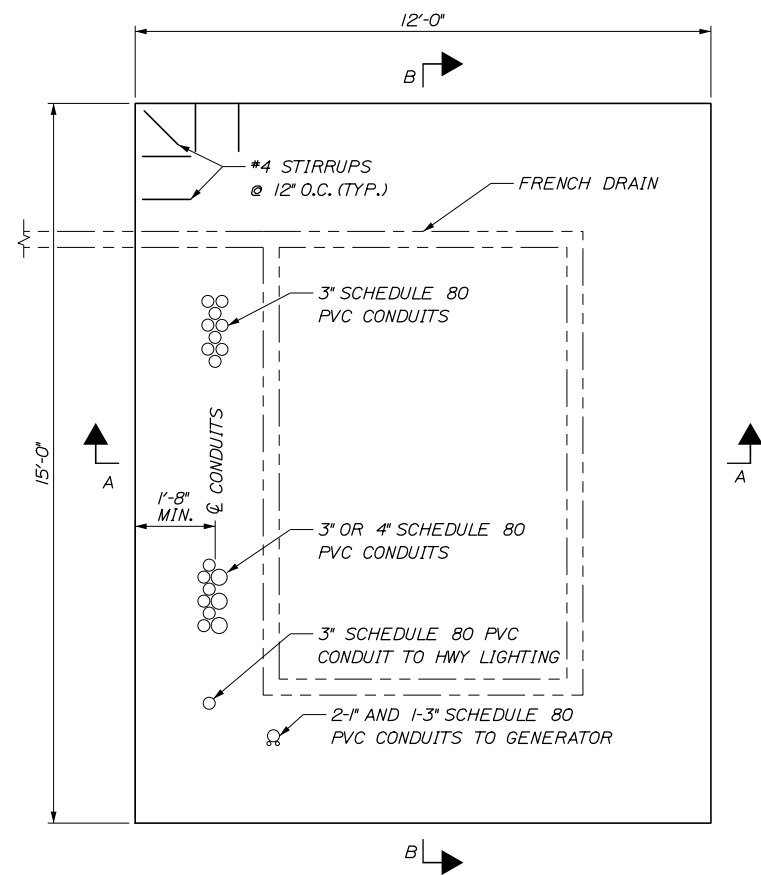
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

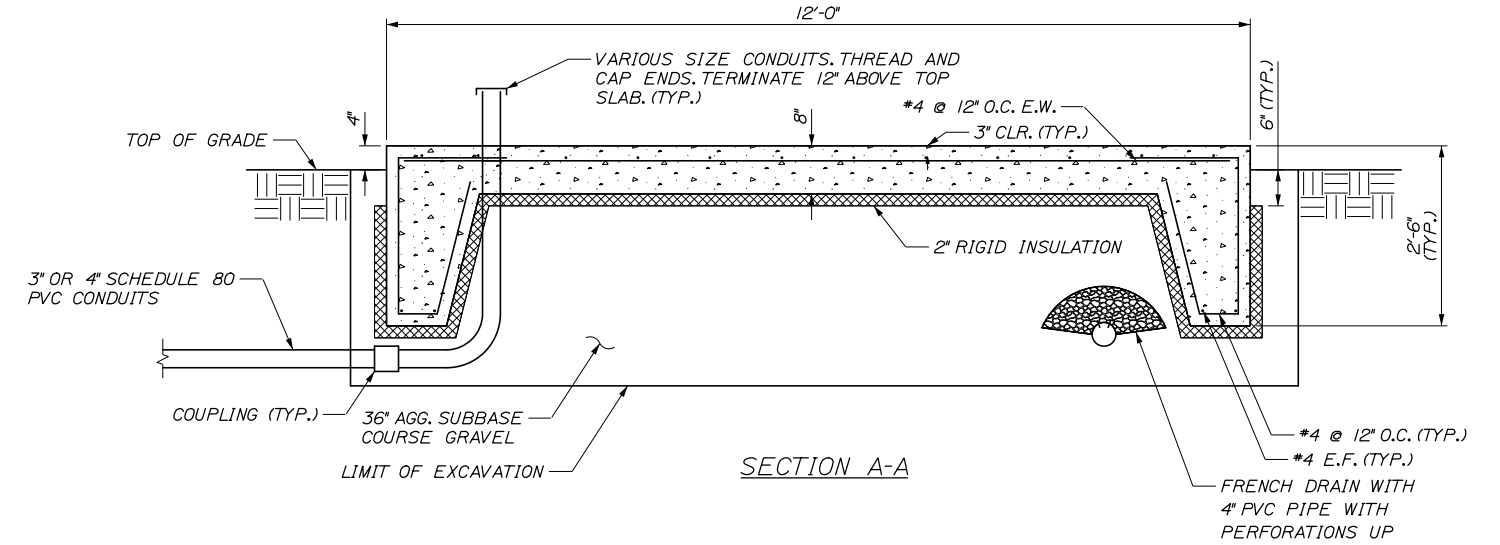
AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION
 STRUCTURAL GENERAL NOTES
 & ELEVATION

SHEET NUMBER: S-01
 CONTRACT: 2018.17
 75 OF 84

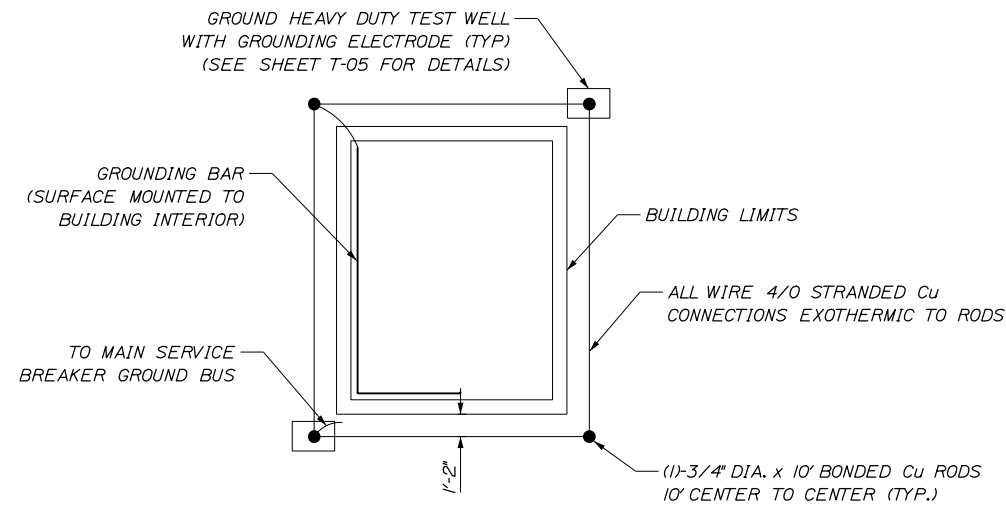
Date: 5/24/2018



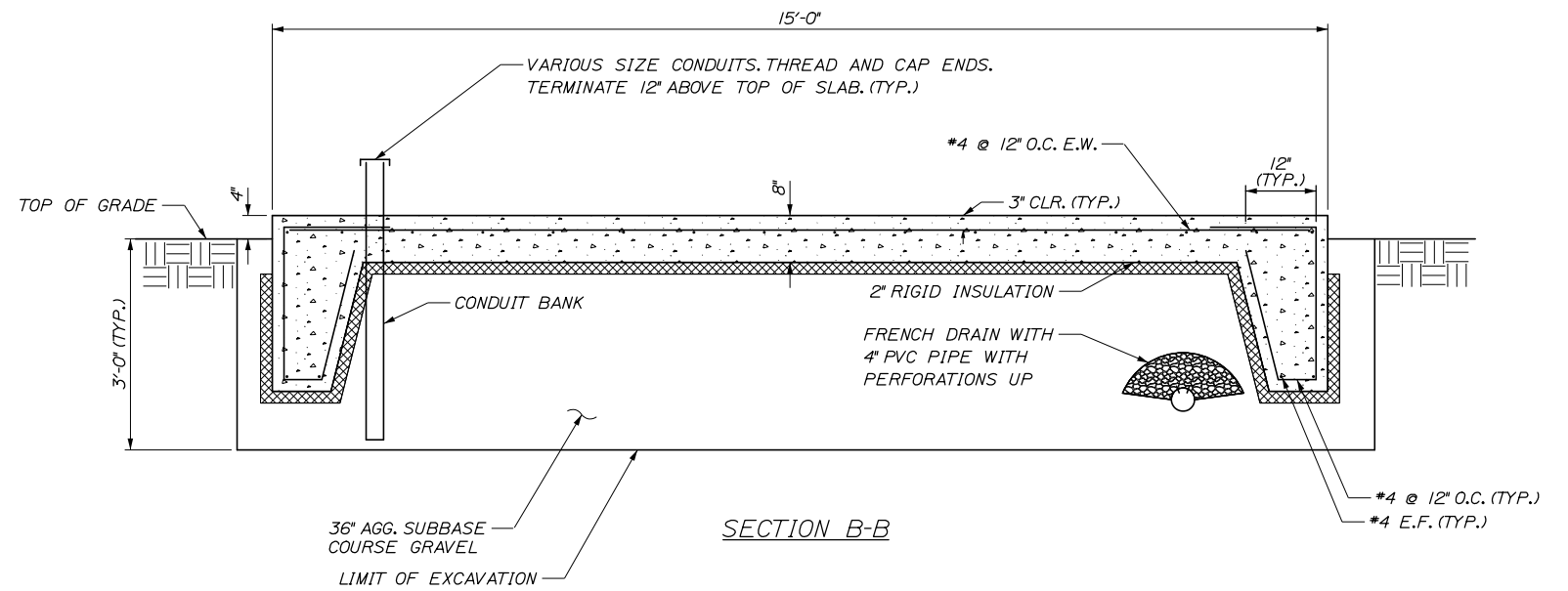
BUILDING SLAB PLAN



SECTION A-A



GROUNDING GRID



SECTION B-B

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	RBM	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
 UPGRADES AND STREAM RELOCATION

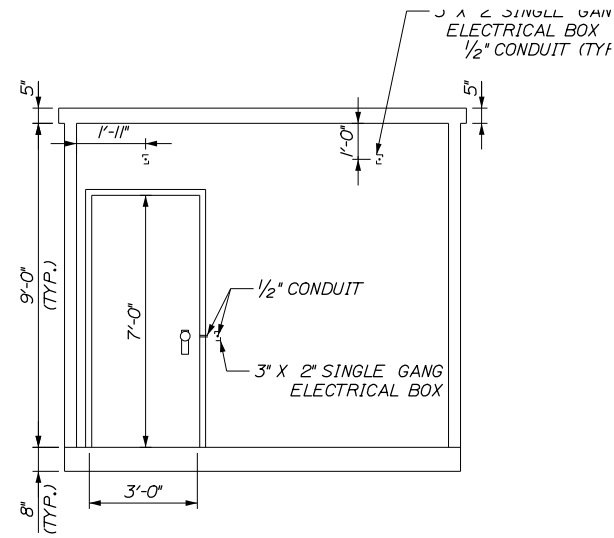
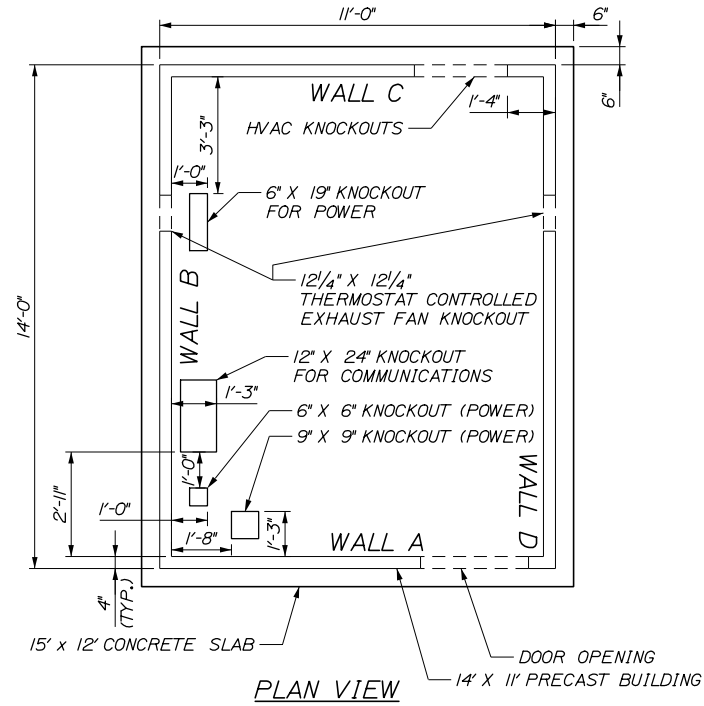
AUBURN BUILDING SLAB DETAILS

SHEET NUMBER: B-01
 77 OF 84

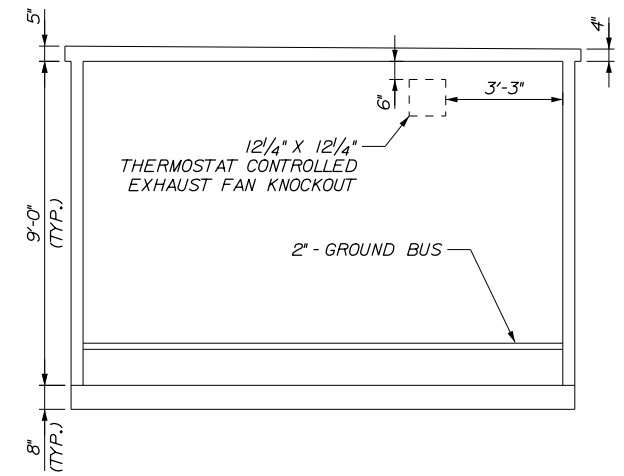
CONTRACT: 2018.17

Filename: 077_BldgSlabDets_Auburn.dgn

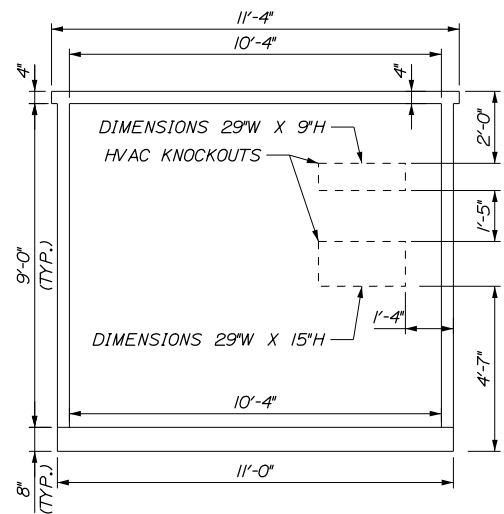
Date: 5/24/2018



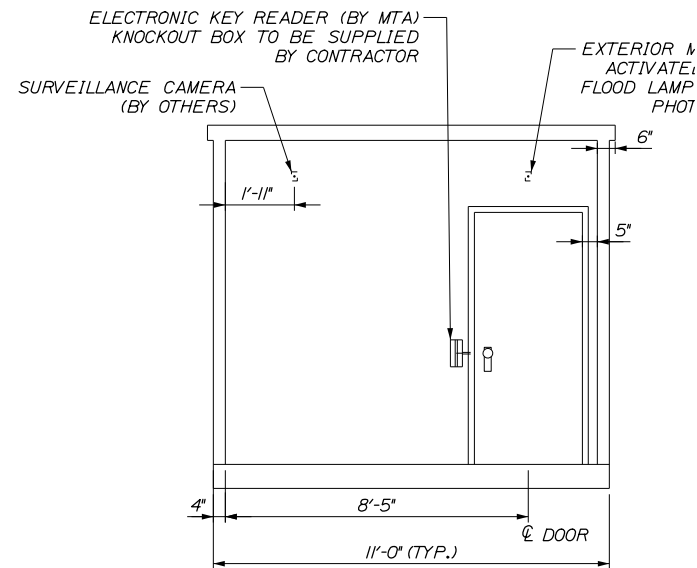
WALL A - INTERIOR ELEVATION



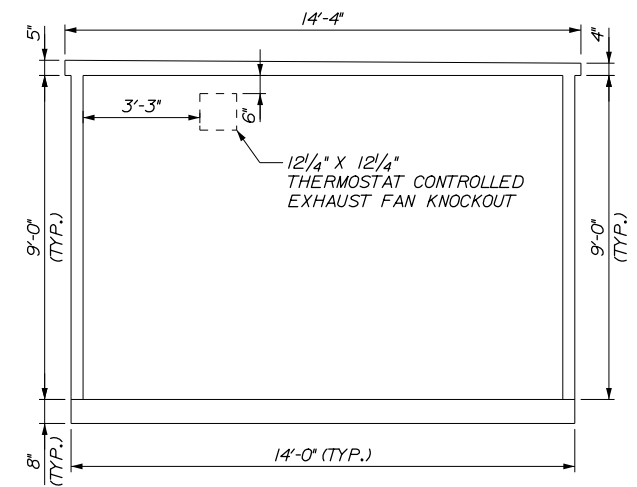
WALL B - INTERIOR ELEVATION



WALL C - INTERIOR ELEVATION



WALL A - EXTERIOR ELEVATION



WALL D - INTERIOR ELEVATION

Scale: NOT TO SCALE

Designed by:



CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

No.	Revision	By	Date	No.	Revision	By	Date		
				Designed	RBM	05\18	Checked	CDH	05\18
				Drawn	EDD	05\18	In Charge of	RAL	05\18

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM
UPGRADES AND STREAM RELOCATION

AUBURN BUILDING INTERIOR DETAILS

SHEET NUMBER: B-02

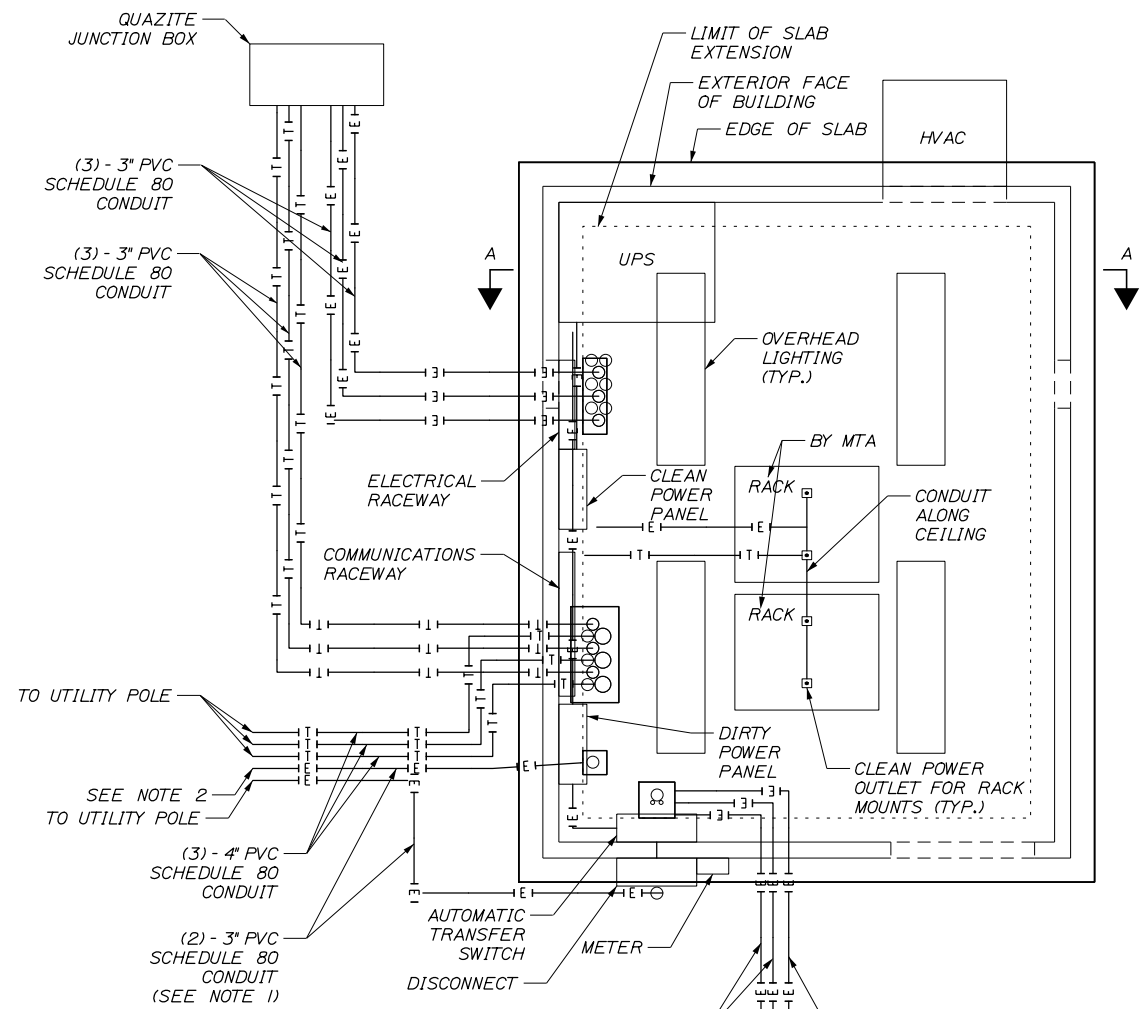
CONTRACT: 2018.17

78 OF 84

Filename: 078_Interior_Elevations_Auburn.dgn

Date: 5/24/2018

Filename: 079_UTILITY_LAYOUT_Auburn.dgn

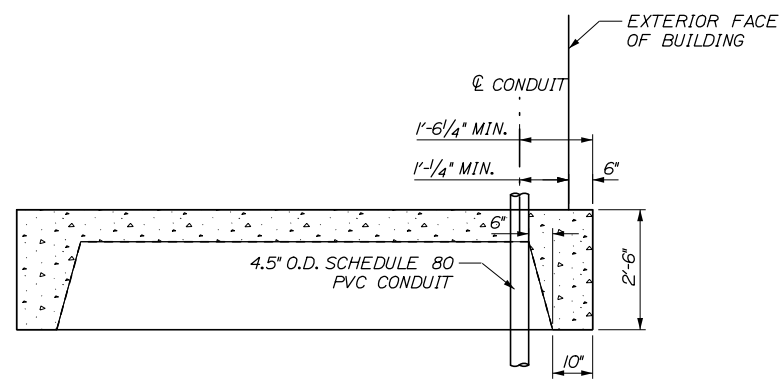


NOTES:

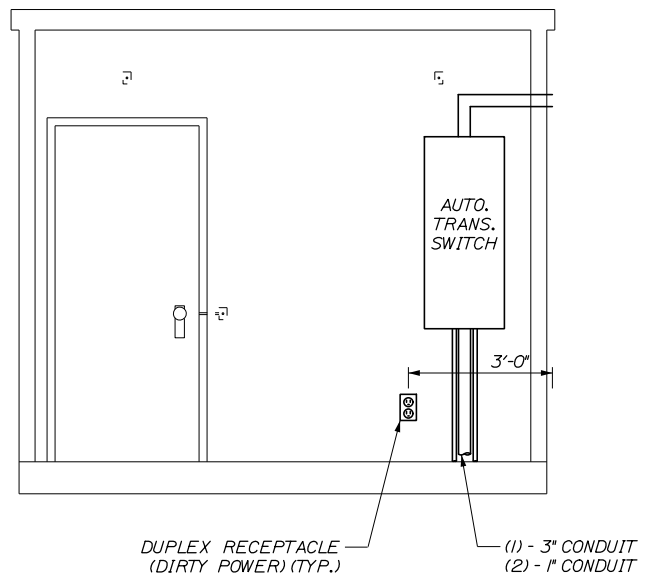
1. (1) - 3" CONDUIT TO POWER SERVICE, (1) - 3" CONDUIT FOR HIGHWAY LIGHTING.

2. INSTALL NEW JUNCTION BOX ADJACENT TO EXISTING ELECTRICAL PANEL. CONNECT TO EXISTING HIGHWAY LIGHTING FEED.

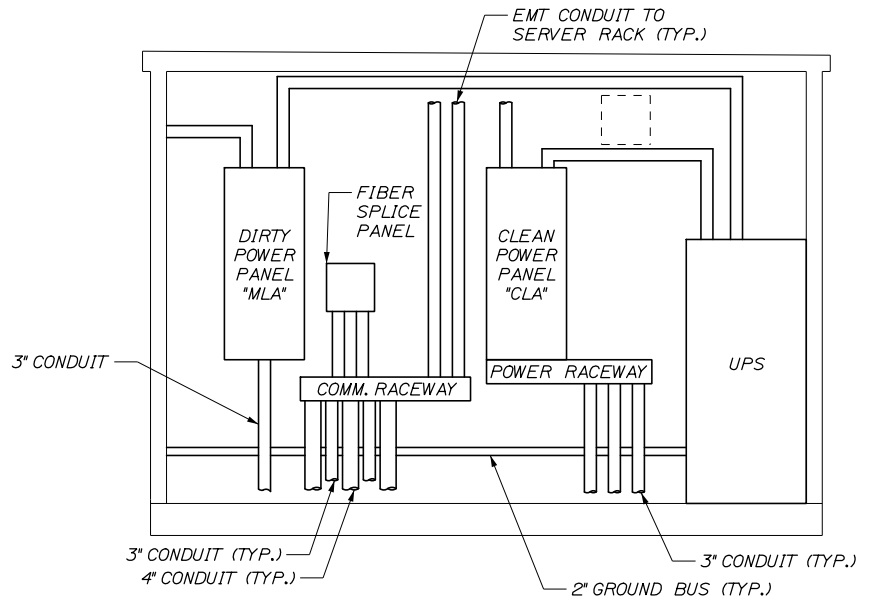
UTILITY LAYOUT



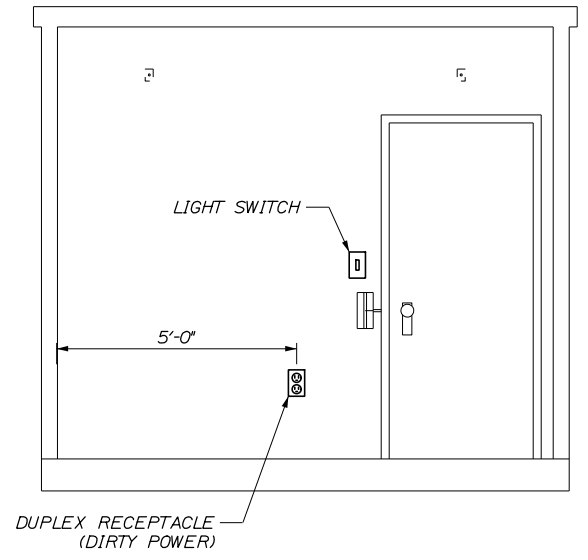
SECTION A-A



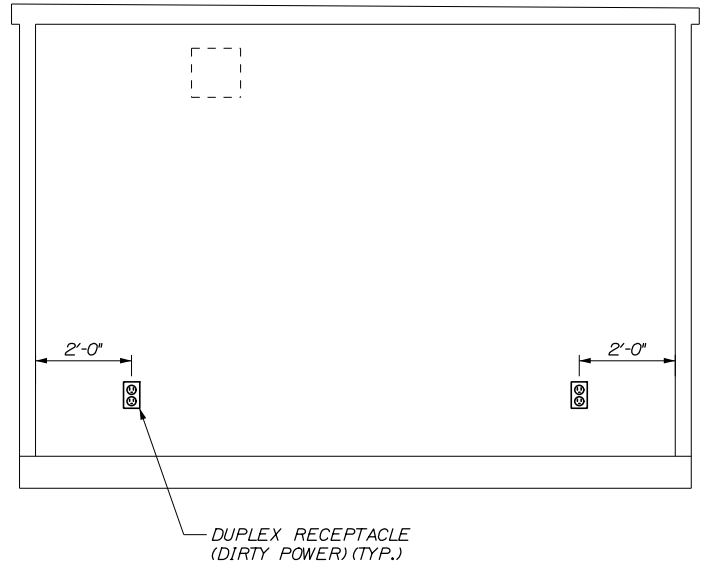
WALL A - INTERIOR ELEVATION



WALL B - INTERIOR ELEVATION



WALL C - INTERIOR ELEVATION



WALL D - INTERIOR ELEVATION

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	RBM	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

AUBURN - EXIT 75 TOLL SYSTEM UPGRADES AND STREAM RELOCATION

AUBURN UTILITY LAYOUT DETAILS

SHEET NUMBER: UT-01

CONTRACT: 2018.17

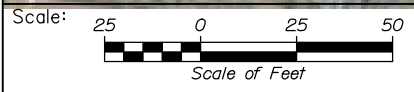
79 OF 84

Date: 5/24/2018



PRECAST UTILITY BUILDING

Filename: 080_GeneralPlan_Kennebunk.dgn



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**THE GOLD STAR
MEMORIAL HIGHWAY**

KENNEBUNK - EXIT 25
TOLL SYSTEM UPGRADES
KENNEBUNK NORTHBOUND TOLL PLAZA
GENERAL PLAN 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
	By	Date	Checked	By	Date
Designed	CDH	05\18	Checked	RBM	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

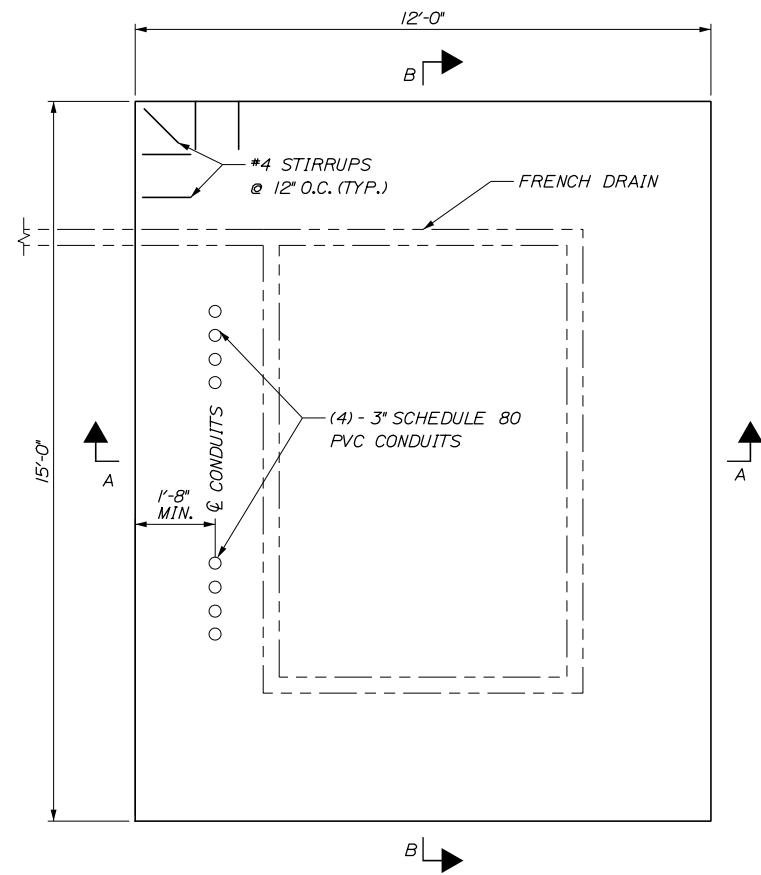
MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

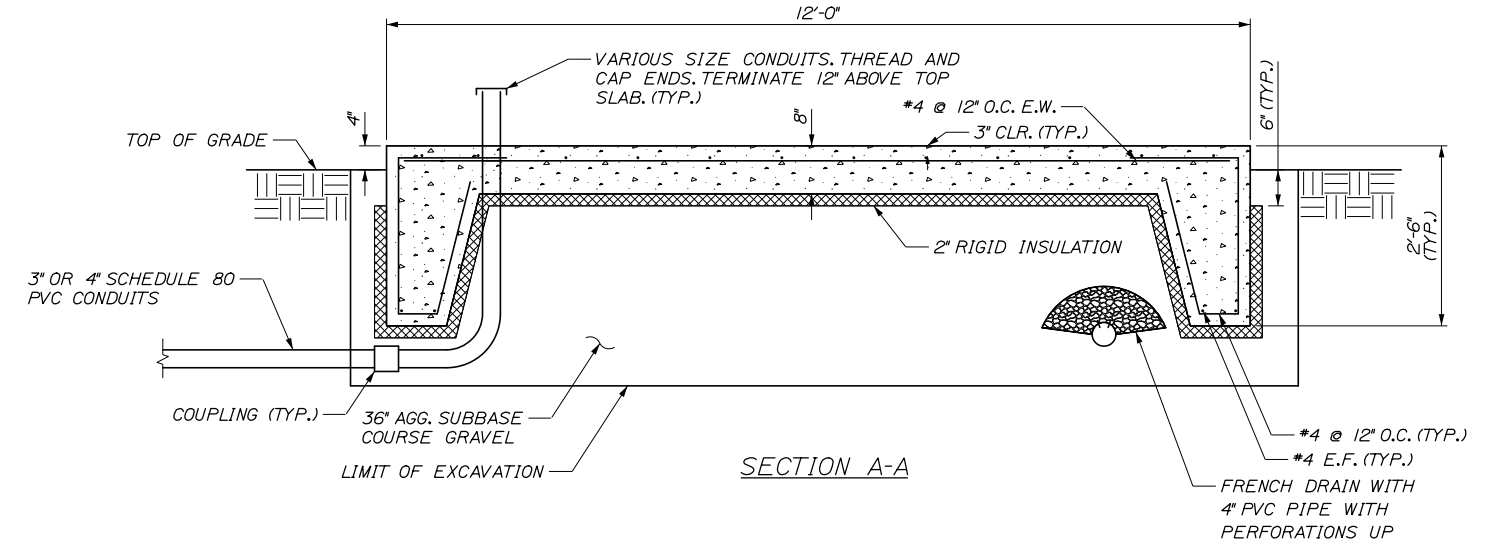
SHEET NUMBER: GP-01a

80 OF 84

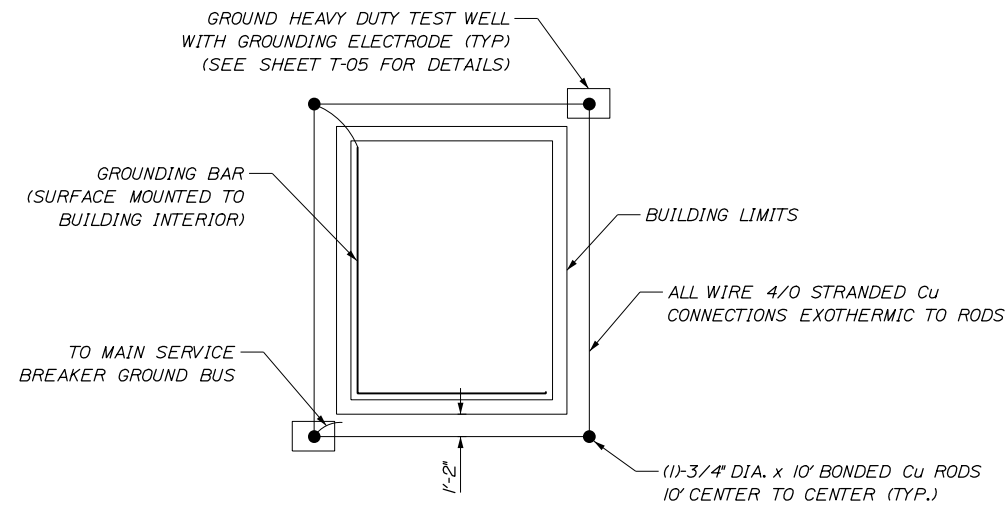
Date: 5/24/2018



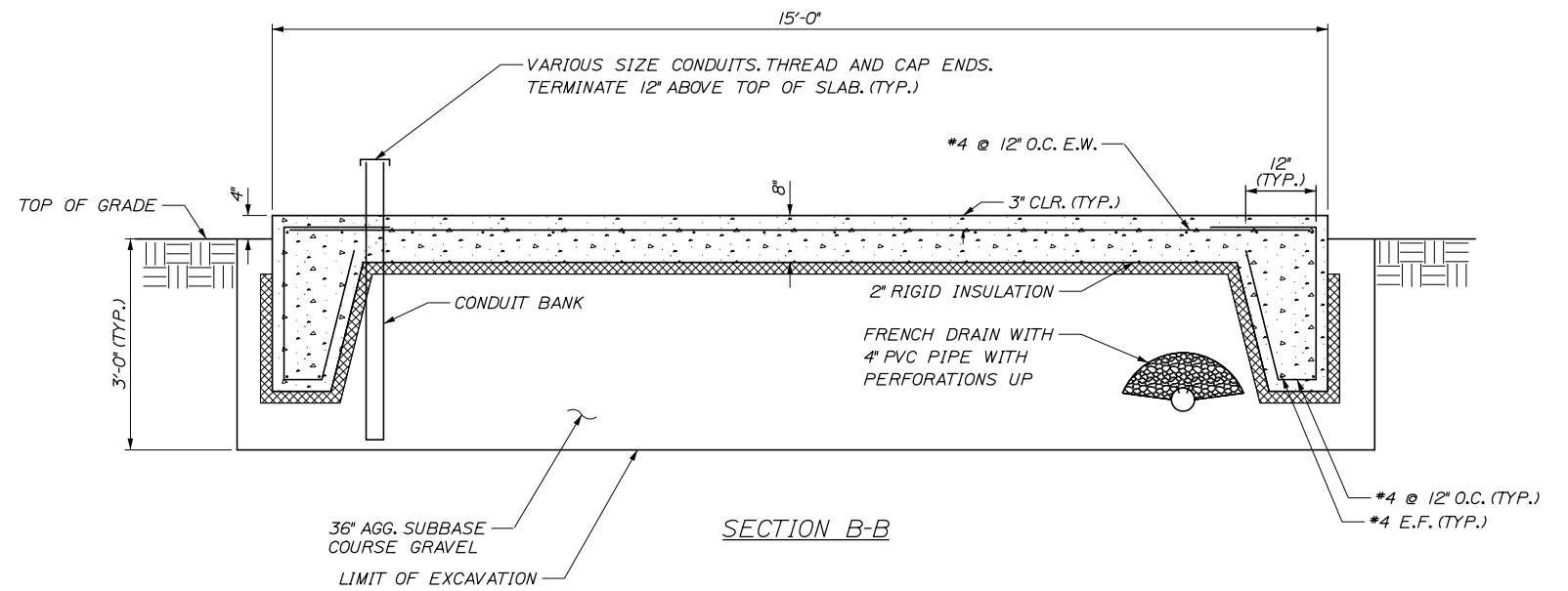
BUILDING SLAB PLAN



SECTION A-A



GROUNDING GRID



SECTION B-B

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	RBM	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

KENNEBUNK - EXIT 25
TOLL SYSTEM UPGRADES

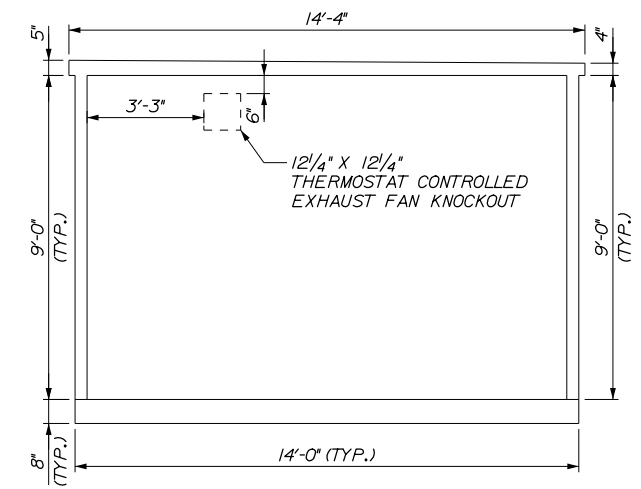
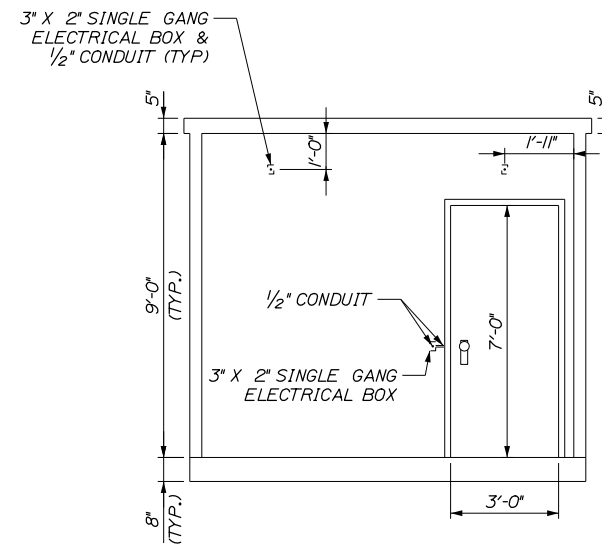
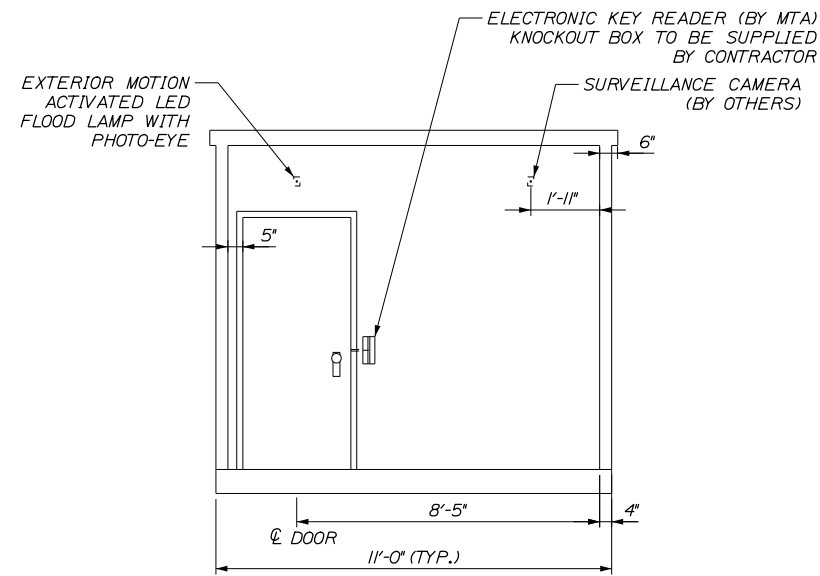
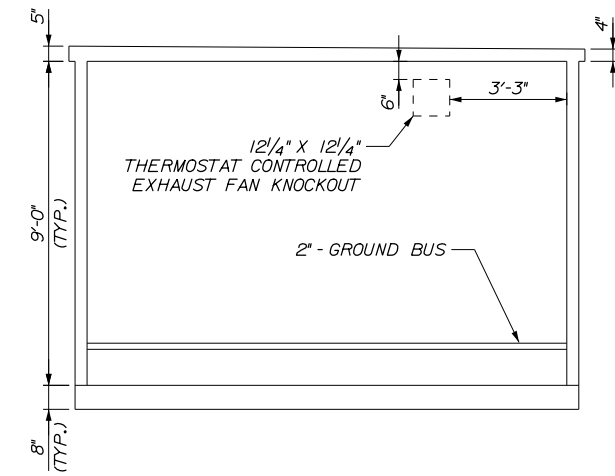
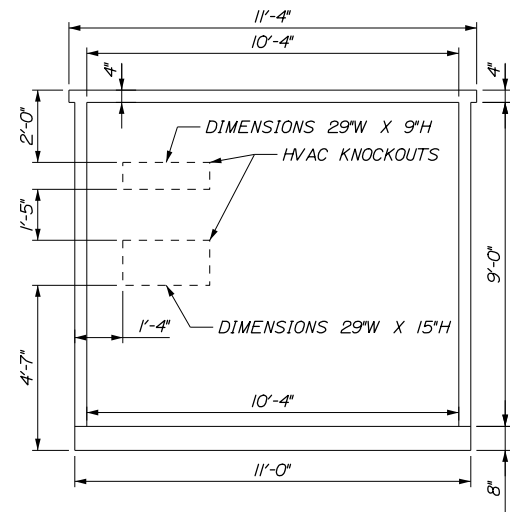
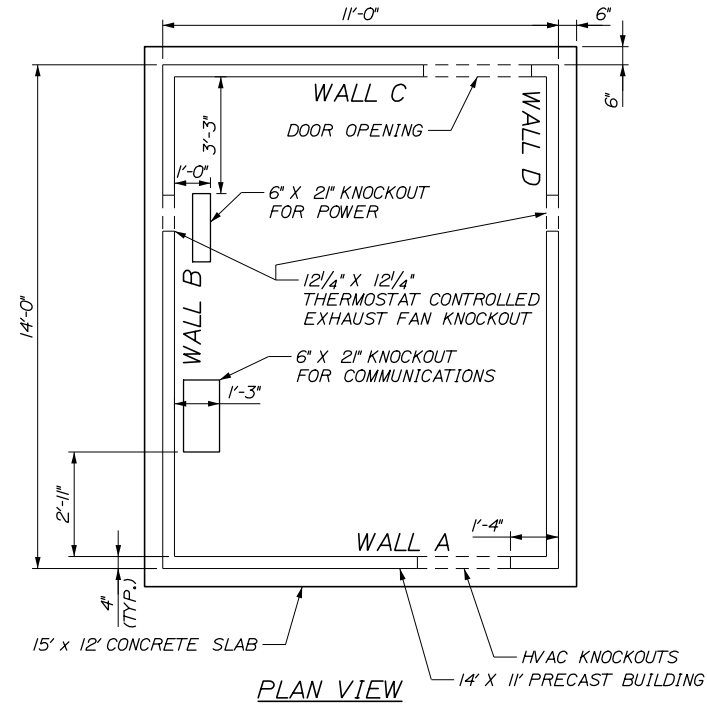
KENNEBUNK BUILDING SLAB DETAILS

SHEET NUMBER: B-01
81 OF 84

CONTRACT: 2018.17

Filename: 081_BldgSlabDets - Kennebunk.dgn

Date: 5/24/2018



Filename: 082_Interior_Elevations - Kennebunk.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

	By	Date		By	Date
Designed	RBM	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: William Yates

KENNEBUNK - EXIT 25 TOLL SYSTEM UPGRADES

KENNEBUNK BUILDING INTERIOR DETAILS

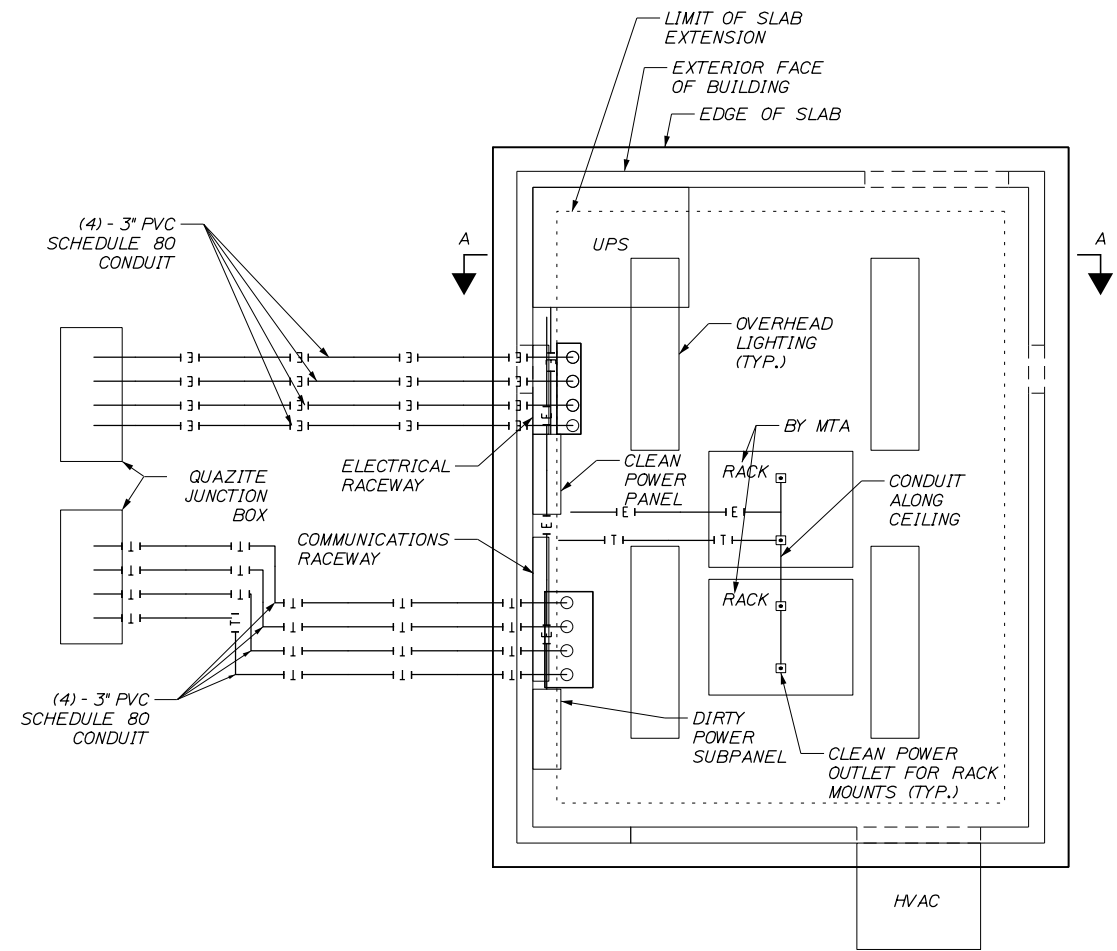
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CONTRACT: 2018.17

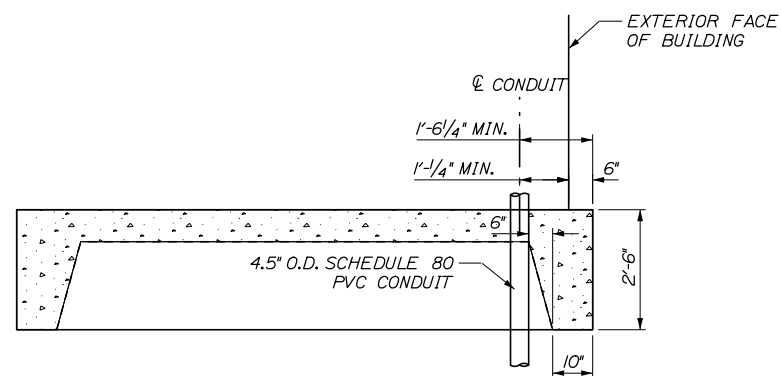
82 OF 84

Date: 5/24/2018

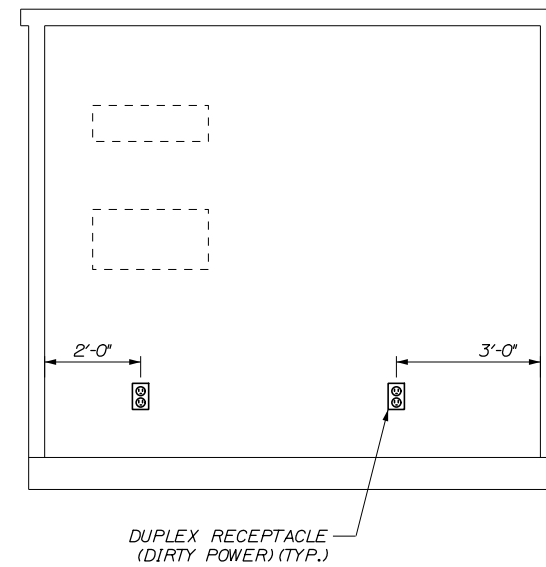
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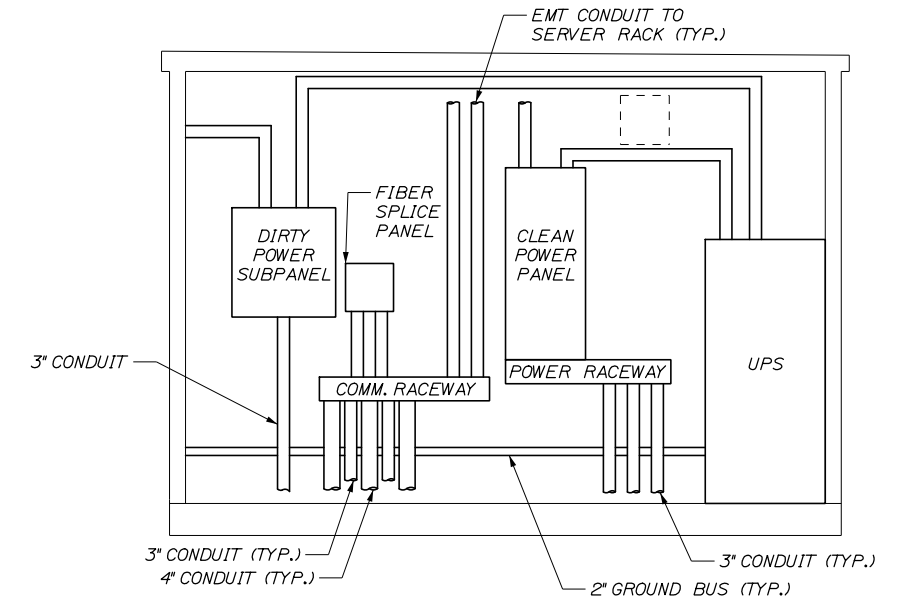
UTILITY LAYOUT



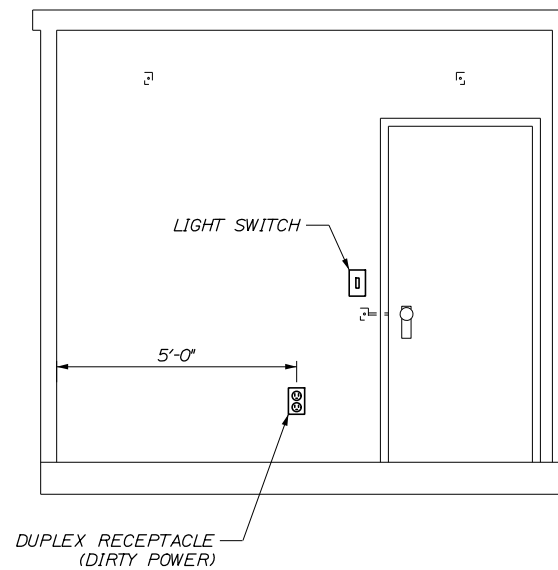
SECTION A-A



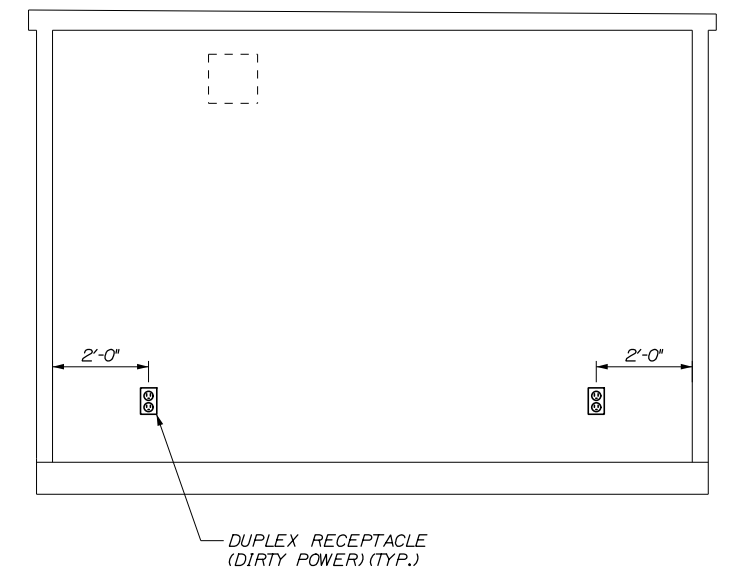
WALL A - INTERIOR ELEVATION



WALL B - INTERIOR ELEVATION



WALL C - INTERIOR ELEVATION



WALL D - INTERIOR ELEVATION

Scale: NOT TO SCALE

Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

KENNEBUNK - EXIT 25
TOLL SYSTEM UPGRADES
KENNEBUNK UTILITY LAYOUT DETAILS

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.					
No.	Revision	By	Date	By	Date
Designed	RBM	05\18	Checked	CDH	05\18
Drawn	EDD	05\18	In Charge of	RAL	05\18

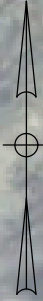
MTA PROJECT MANAGER: William Yates

CONTRACT: 2018.17

SHEET NUMBER: UT-01

83 OF 84

Date: 5/24/2018

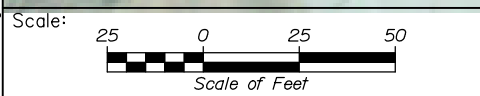


NOTE:

1. FINAL DIRECTIONAL BORE LOCATIONS TO BE FIELD LOCATED BY THE RESIDENT.

DRILL PIT

RECEIVING PIT



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: R. Bruce Munger, P.E., P.T.O.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	EDD	05\18	Checked	RWH	05\18
Drawn	PEB	05\18	In Charge of	RAL	05\18

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: William Yates

WELLS - EXIT 19
 DIRECTIONAL BORING

EXIT 19 DIRECTIONAL BORING PLAN

SHEET NUMBER: PL-01

CONTRACT: 2018.17

84 OF 84

Filename: 084_Exit19_Boring.dgn