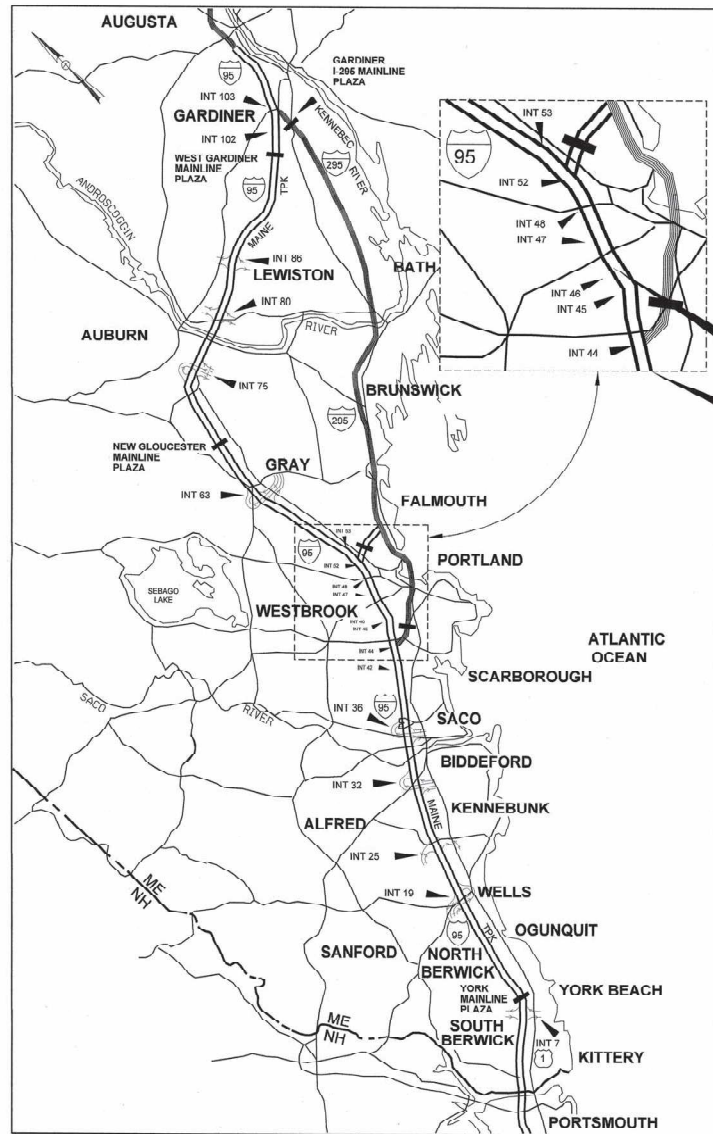


Date: 2/18/2020



LOCATION MAP

CONTRACT 2020.03
 PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4



THE GOLD STAR
 MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
 ROBERT D. STONE, VICE CHAIR
 MICHAEL J. CIANCHETTE, MEMBER
 ANN R. ROBINSON, MEMBER
 THOMAS J. ZUKE, MEMBER
 JANE L. LINCOLN, MEMBER
 BRUCE VAN NOTE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT: 2020.03 PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4

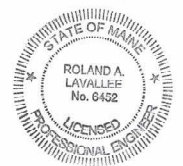
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CONTRACT: 2020.03

HNTB

SHEETS 1-310



Roland A. Lavalley
 ROLAND A. LAVALLEY, P.E., PLS
 VICE PRESIDENT
 DIRECTOR OF OPERATIONS

2/17/20
 DATE

APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER

02-19-2020
 DATE

Stephen R. Tartre
 STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING & RISING MAINTENANCE

2/19/20
 DATE



Stantec

SHEETS 311-386
 (CURRENTLY NUMBERED A1-A76)

Lauren E. Meek
 LAUREN MEEK, P.E.
 ASSOCIATE

2/24/20
 DATE

Filename: D01_M_ATitle.dgn

Date: 2/26/2020

Filename: PAW1_EQ_Plan_01.dgn

ESTIMATED QUANTITIES table with columns: ITEM NO, DESCRIPTION, EXIT 44 NORTHBOUND OFF RAMP, NORTHBOUND BARREL, MEDIAN, SOUTHBOUND BARREL, TOTAL QUANTITY, UNIT. Rows 201.11 to 604.26.

ESTIMATED QUANTITIES table with columns: ITEM NO, DESCRIPTION, EXIT 44 NORTHBOUND OFF RAMP, NORTHBOUND BARREL, MEDIAN, SOUTHBOUND BARREL, TOTAL QUANTITY, UNIT. Rows 604.40 to 645.09.

Scale: NOT TO SCALE. Revision table with columns: No., Revision, By, Date.

Designed by: HNTB. CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E. Designated, Drawn details.

HNTB CORPORATION
342 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR MEMORIAL HIGHWAY

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4. ESTIMATED QUANTITIES (1 of 2). SHEET NUMBER: EQ-01. CONTRACT: 2020.03. 2 OF 310.

Date: 2/26/2020

ESTIMATED QUANTITIES							
ITEM NO	DESCRIPTION	EXIT 44 NORTHBOUND OFF RAMP	NORTHBOUND BARREL	MEDIAN	SOUTHBOUND BARREL	TOTAL QUANTITY	UNIT
645.1099	REMOVE AND DISPOSE SIGN		12		20	32	EA
645.12	OVERHEAD GUIDE SIGN:(STA 2133+14)				1	1	LS
645.161	BREAKAWAY DEVICE SINGLE POLE	2	3		5	10	EA
645.162	BREAKAWAY DEVICE MULTI POLE		11		4	15	EA
645.251	ROADSIDE GUIDE SIGN, TYPE 1		950		430	1,380	SF
645.2511	SHEET ALUMINUM OVERLAY, TYPE 1	288				288	SF
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGN, TYPE 1		350		150	500	SF
645.289	STEEL H-BEAM POLES		7,650		3,950	11,600	LB
645.501	REMOVE AND RESET MAINLINE SIGN NO. 1		1		1	1	LS
645.502	REMOVE AND RESET MAINLINE SIGN NO. 2		1		1	1	LS
645.503	REMOVE AND RESET MAINLINE SIGN NO. 3		1		1	1	LS
645.504	REMOVE AND RESET MAINLINE SIGN NO. 4		1		1	1	LS
645.505	REMOVE AND RESET MAINLINE SIGN NO. 5		1		1	1	LS
645.506	REMOVE AND RESET MAINLINE SIGN NO. 6		1		1	1	LS
645.507	REMOVE AND RESET MAINLINE SIGN NO. 7		1		1	1	LS
645.508	REMOVE AND RESET MAINLINE SIGN NO. 8		1		1	1	LS
645.509	REMOVE AND RESET MAINLINE SIGN NO. 9		1		1	1	LS
645.510	REMOVE AND RESET MAINLINE SIGN NO. 10		1		1	1	LS
645.511	REMOVE AND RESET MAINLINE SIGN NO. 11		1		1	1	LS
645.512	REMOVE AND RESET MAINLINE SIGN NO. 12		1		1	1	LS
645.513	REMOVE AND RESET MAINLINE SIGN NO. 13				1	1	LS
645.514	REMOVE AND RESET MAINLINE SIGN NO. 14				1	1	LS
645.515	REMOVE AND RESET MAINLINE SIGN NO. 15				1	1	LS
645.516	REMOVE AND RESET MAINLINE SIGN NO. 16				1	1	LS
645.517	REMOVE AND RESET MAINLINE SIGN NO. 17				1	1	LS
645.518	REMOVE AND RESET MAINLINE SIGN NO. 18				1	1	LS
645.519	REMOVE AND RESET MAINLINE SIGN NO. 19				1	1	LS
645.520	REMOVE AND RESET MAINLINE SIGN NO. 20				1	1	LS
645.521	REMOVE AND RESET MAINLINE SIGN NO. 21				1	1	LS
645.522	REMOVE AND RESET MAINLINE SIGN NO. 22				1	1	LS
645.523	REMOVE AND RESET MAINLINE SIGN NO. 23				1	1	LS
645.524	REMOVE AND RESET MAINLINE SIGN NO. 24				1	1	LS
645.525	REMOVE AND RESET MAINLINE SIGN NO. 25				1	1	LS
645.526	REMOVE AND RESET MAINLINE SIGN NO. 26				1	1	LS
645.527	REMOVE AND RESET MAINLINE SIGN NO. 27				1	1	LS
645.528	REMOVE AND RESET OVERHEAD MAINLINE SIGN NO. 28	1				1	LS
645.529	REMOVE AND RESET MAINLINE SIGN NO. 29		1			1	LS
650.101	VARIABLE MESSAGE SIGN (VMS) SYSTEM - HOLMES ROAD				1	1	LS
650.102	VARIABLE MESSAGE SIGN (VMS) SYSTEM - CROSBY		1			1	LS
650.201	VMS GROUND MOUNTED CONTROL CABINET - HOLMES ROAD				1	1	EA
650.202	VMS GROUND MOUNTED CONTROL CABINET - CROSBY		1			1	EA
650.801	VMS POWER SYSTEM - HOLMES				1	1	LS
650.802	VMS POWER SYSTEM - CROSBY		1			1	LS
652.30	FLASHING ARROW	2	2		2	6	EA
652.312	TYPE III BARRICADES	5	9		9	23	EA
652.33	DRUM	70	350		350	770	EA
652.332	DRUM, LEFT IN PLACE		50			50	EA
652.34	CONE	100	100		100	300	EA
652.35	CONSTRUCTION SIGNS					5,400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES					1	LS
652.47	SEQUENTIAL FLASHING WARNING LIGHTS					100	EA
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	1	3		3	7	EA
652.45	TRUCK MOUNTED ATTENUATOR	90	1,200		1,200	2,490	CD
652.4501	TRUCK MOUNTED ATTENUATOR - 24,000 LB		120		120	240	CD
652.452	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	1	3		3	7	EA
656.50	BALED HAY, IN PLACE	10	10		10	30	EA
656.60	TEMPORARY BERMS	100	65			165	LF
656.62	TEMPORARY SLOPE DRAINS	100	38			138	LF
656.632	30 INCH TEMPORARY SILT FENCE	1,200	11,500		13,600	26,300	LF
659.10	MOBILIZATION					1	LS
673.01	STORMWATER SOIL FILTER BED		410		620	1,030	CY
674.10	PREFABRICATED CONCRETE MODULAR GRAVITY WALL - RED BROOK				1	1	LS
674.10	PREFABRICATED CONCRETE MODULAR GRAVITY WALL - LONG CREEK		1			1	LS
801.03	TEST PITS					10	EA

Filename: PAW1_EQ_Plan_02.dgn

Scale:				Designed by:			
NOT TO SCALE				HNTB			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	CAV 2/20	Checked	TRS 2/20
				Drawn	GW 2/20	In Charge of	RAL 2/20

HNTB CORPORATION			
340 County Road, Suite 6-C			
Westbrook, ME 04092			
TEL (207) 774-5155			
FAX (207) 228-0909			

MAINE
TURNPIKE

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV, P.E., P.T.O.E.

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
ESTIMATED QUANTITIES (2 of 2)


SHEET NUMBER: EQ-02
CONTRACT: 2020.03
3 OF 310

Date: 2/25/2020

REMOVAL OF TEMPORARY SB WIDENING (FROM CROSS SECTIONS)

COMMON EXCAVATION FOR ESTIMATE	SOUTHBOUND BARREL	NORTHBOUND BARREL	44 NB OFF RAMP	PHASE 1 TOTAL	MEDIAN (PHASE 2)
COMMON EXCAVATION (FROM CROSS SECTIONS)	59,480	35,370	8,056		25,782
EARTH FROM DRIVES, (CROSBY DRIVEWAY, ETC.)	45	0	0		0
GRUBBING IN FILL	1,447	1,439	561		0
MUCK EXCAVATION	1,001	578	148		0
CULVERT INLET AND OUTLET DITCHES (NOT COVERED BY X-SECTIONS)	770	2,670	0		380
UNDERDRAIN SOIL FILTER (BMPs)	8,673	1,837	0		0
REMOVAL OF TEMPORARY SB WIDENING (FROM CROSS SECTIONS)	0	0	0		1,441
TOTAL COMMON EXCAVATION (FOR ESTIMATE)	71,416	41,894	8,765	122,075	27,603
FILL FOR BORROW CALCULATIONS					
COMMON FILL (FROM CROSS SECTIONS)	7,171	5,348	979		379
COMMON FILL (FROM BRIDGE)	0	0	0		0
FILL FOR DRIVES (CROSBY DRIVEWAY, ETC.)	0	0	0		0
GRUBBING IN FILL	1,447	1,439	561		0
UNDERDRAIN SOIL FILTER (BMPs)	0	532	0		0
MUCK	0	0	0		0
TOTAL FILL	8,618	7,319	1,540	17,625	379
ROCK EXCAVATION FOR ESTIMATE					
ROCK EXCAVATION (FROM CROSS SECTIONS)	10,882	2,250	0		168
TOTAL ROCK EXCAVATION	10,882	2,250	0	13,132	168
AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS					
(1) TOTAL COMMON EXCAVATION	71,416	41,894	8,765	122,075	27,603
ALL DEDUCTIONS:					
GRUBBING IN CUT	10,808	6,816	1,839		0
GRUBBING IN FILL	1,447	1,439	561		0
MUCK EXCAVATION	1,001	578	148		0
PAVEMENT SALVAGE (CUT AND FILL)	6,266	3,505	909		4,307
PAVEMENT SALVAGE (FROM TEMPORARY SB WIDENING)	0	0	0		265
(2) TOTAL DEDUCTIONS	19,522	12,338	3,457	35,317	4,572
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)	51,894	29,556	5,308	86,758	23,031
TOTAL AVAILABLE STRUCT. EXCAVATIONS (UNDERDRAIN ONLY)	0	0	0		4,337
TOTAL AVAILABLE STRUCT. EXCAVATIONS (BRIDGE)	0	0	500		0
RIPRAP EXCAVATION (1/2 USABLE)	140	191	0		0
TOTAL AVAILABLE NON-ROCK EXCAVATION	52,034	29,747	5,808	87,589	27,368
COMPUTATION OF WASTE STORAGE & WASTE MATERIAL					
TOTAL AVAIL. WASTE STORAGE AREA (FROM CROSS SECTIONS)	632	822	0	1,454	0
GRUBBING IN CUT	10,808	6,816	1,839		0
GRUBBING IN FILL	1,447	1,439	561		0
MUCK EXCAVATION	1,001	578	148		0
RIPRAP EXCAVATION (1/2 WASTE)	140	191	0		0
TOTAL WASTE MATERIAL TO BE UTILIZED (LOWER OF TOTAL AVAILABLE WASTE STORAGE AREA OR TOTAL WASTE MATERIAL)	632	822	0	1,454	0
TOTAL WASTE MATERIAL TO BE WASTED (TOTAL WASTE MATERIAL MINUS TOTAL WASTE MATERIAL TO BE UTILIZED)	12,764	8,202	2,548	23,514	0
COMPUTATION FOR GRANULAR BORROW FOR ESTIMATE					
GRANULAR BORROW TO REPLACE MUCK	1,001	578	148		0
GRANULAR BORROW TO REPLACE PEAT	0	0	0		0
GRANULAR BORROW IN LOW WET AREAS	0	0	0		0
GRANULAR BORROW FOR EMBANKMENT CONSTRUCTION NEAR BOX CULVERTS	0	0	0		0
GRANULAR BORROW TO MAINTAIN TRAFFIC	0	0	0		0
GRANULAR BORROW FOR UNDERCUTTING	0	0	0		0
GRANULAR BORROW FOR CULVERT BEDDING	0	0	0		0
TOTAL GRANULAR BORROW	1,001	578	148	1,727	0
COMPUTATION FOR COMMON BORROW FOR ESTIMATE					
(3) TOTAL FILL	8,618	7,319	1,540	17,625	379
TOTAL AVAILABLE NON-ROCK EXCAVATION	52,034	29,747	5,808	87,589	27,368
TOTAL AVAILABLE ROCK EXCAVATION	10,882	2,250	0	13,132	168
TOTAL AVAILABLE STRUCTURAL ROCK EXCAVATION	0	0	0		0
TOTAL WASTE MATERIAL TO BE UTILIZED	632	822	0	1,454	0
(4) TOTAL AVAILABLE EXCAVATION	61,546	30,437	5,228	97,211	24,850
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION	-52,928	-23,118	-3,688	-79,586	-24,471
IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION MINUS TOTAL FILL PLUS TOTAL WASTE MATERIAL TO BE WASTED	65,692	31,320	6,088	103,100	24,471
SURPLUS MATERIAL	65,692 CY	31,320 CY	6,088 CY	103,100 CY	24,471 CY

Filename: PAW1_ES_Plans_01.dgn

Scale: NOT TO SCALE		Designed by:		HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4 EARTHWORK SUMMARY	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.						SHEET NUMBER: ES-01	
				By	Date	By	Date	MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE		CONTRACT: 2020.03	
				Designed	CAV	2/20	Checked	TRS	2/20	4 OF 310	
				Drawn	GW	2/20	In Charge of	RAL	2/20		

Date: 2/25/2020

Filename: P:\AW1_General Notes.dgn

GENERAL NOTES:

- ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES LATEST REVISION AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. LATEST REVISION, UNLESS OTHERWISE INCLUDED IN THESE PLANS.
- THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- GEOTECHNICAL INFORMATION EITHER FURNISHED OR REFERENCED IN THIS PLAN SET IS FOR THE BIDDER'S AND CONTRACTOR'S USE. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR THE INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS AT THE TIME OF CONSTRUCTION. THE AUTHORITY SHALL NOT BE RESPONSIBLE FOR THE BIDDER'S AND CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
- THE GEOTECHNICAL DESIGN REPORT, INCLUDING TEST BORING LOGS TITLED PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS, MAINE TURNPIKE, GEOTECHNICAL DESIGN REPORT MAY BE ACCESSED AT THE MAINE TURNPIKE AUTHORITY WEB ADDRESS: WWW.MAINETURNPIKE.COM/PROJECTS/CONSTRUCTION-CONTRACTS.
- TREE CLEARING IS NOT ALLOWED FROM JUNE 1 TO JULY 31.
- CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND MICROSTATION FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO, BUT NOT LIMITED TO: PAVEMENT, CONCRETE BARRIER, GUARDRAIL, CULVERTS, MEDIAN DRAINAGE, FOUNDATIONS, WIRING, SIGNS, ETC.

EARTHWORK AND PAVEMENT NOTES:

- THE NORMAL GRUBBING WIDTH IN THE FILLS WHEN SUBGRADE IS LESS THAN 5' ABOVE EXISTING GROUND SHALL BE VARIABLE LEFT OR RIGHT. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6' IN FIELD AREAS AND 1' IN WOODED AREAS.
- WASTE MATERIALS SHALL BE DISPOSED OFF THE PROJECT SITE AND IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART O OF 29 CFR PART 192.6.65D-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
- REMOVAL OF EXISTING PAVEMENT, WITHIN THE AREAS OF FULL DEPTH PAVEMENT AND FULL DEPTH RECONSTRUCTION, SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 10".
- 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.
- EXISTING INSLOPES STEEPER THAN 2:1 IN PROPOSED FILL AREAS SHALL BE BENCHED AS SHOWN IN THE DETAILS OR AS DIRECTED BY THE RESIDENT.
- INTERPRETIVE ROCK SURFACES ARE SHOWN IN THE PLANS. ADDITIONAL INFORMATION ON ROCK SURFACES CAN BE FOUND IN THE FINAL GEOTECHNICAL DESIGN REPORT.
- ROCK SHALL BE EXCAVATED 1' BELOW SUBGRADE AND GRADED TO DAYLIGHT TO AVOID PONDING.
- MUCK EXCAVATION DEPTH HAS BEEN ESTIMATED AT 18".

GUARDRAIL NOTES:

- AT THE END OF EACH WORK DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL ITEMS, UNLESS NOTED OTHERWISE.
- CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS, UNLESS OTHERWISE NOTED.
- ALL GUARDRAIL SHALL BE INSTALLED IN A MANNER TO AVOID DRAINAGE STRUCTURES AND ELECTRICAL CONDUITS.
- HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE INCIDENTAL TO THE GUARDRAIL ITEMS.
- ALL EXISTING DELINEATOR AND MILE MARKER POSTS SHALL BE REMOVED AND RESET. PAYMENT WILL BE MADE UNDER ITEM 606.356I DELINEATOR POST-REMOVE AND RESET.
- W-BEAM GUARDRAIL EXISTS ON THE PROJECT SITE. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING W-BEAM GUARDRAIL.
- ALL END TERMINALS AND ATTENUATORS MANUFACTURED AFTER DECEMBER 31, 2019 SHALL MEET THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).
- THE TEMPORARY CONCRETE BARRIER, TYPE 1 TO BE LEFT IN PLACE SHALL UTILIZE BARRIER SUPPLIED BY THE AUTHORITY.

ROCK EXCAVATION NOTES:

- CONTRACTOR SHALL LIMIT PREDRILL HOLES TO 3" DIAMETER.

- MAXIMUM PRESPLIT SPACING SHALL BE 24".
- CONTRACTOR SHALL HOLD A MINIMUM 25 MILLISECOND DELAY BETWEEN PRESPLIT HOLES AND PRODUCTION HOLES.
- BLAST DESIGN SHALL KEEP THE DIRECTION OF SHOT PARALLEL TO THE ROADWAY.
- THE CONTRACTOR SHALL LIMIT VIBRATION FROM BASTING AS REQUIRED BY SPECIFICATION SECTION 105.2.7 AND AS REQUIRED BY UTILITY OWNERS. THE CONTRACTOR SHALL SELECT THEIR MEANS AND METHODS TO MEET THESE VIBRATION REQUIREMENTS.

UTILITY NOTES:

- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY 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 ALSO REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF THE WORK.
- ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.
- THE UTILITIES INVOLVED IN THIS CONTRACT ARE:
 BUCKEYE PIPELINE
 CENTRAL MAINE POWER (DISTRIBUTION)
 CENTRAL MAINE POWER (TRANSMISSION)
 CHARTER COMMUNICATIONS
 CONSOLIDATED COMMUNICATIONS (FAIRPOINT)
 CROWN CASTLE FIBER NETWORKS (LIGHTOWER)
 DEAD RIVER COMPANY (SEWER)
 FAA/PORTLAND JETPORT
 FIRSTLIGHT FIBER
 GRANITE STATE GAS
 MAINE TURNPIKE AUTHORITY - LIGHTING
 MCI WORLD COMMUNICATIONS (VERIZON)
 OCEAN PROPERTIES (SEWER)
 PORTLAND PIPE LINE CORPORATION
 PORTLAND WATER DISTRICT
 SCARBOROUGH FIRE DEPARTMENT
 UNITIL
- THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED THEIR UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL SIGN LOCATIONS AND/OR ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE UTILITY LOCATIONS.

DRAINAGE NOTES:

- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT. ABANDONED STRUCTURES TO REMAIN SHALL BE PLUGGED WITH BRICK AND MORTAR (INCIDENTAL TO 604 ITEMS) AND FILLED WITH FLOWABLE FILL (ITEM 602.30).
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
- IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL.
- ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO TAKE A PROPOSED PIPE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CULVERT ITEMS.
- ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCIDENTAL TO THE PROPOSED CATCH BASIN ITEMS.
- EXISTING CATCH BASINS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 604.182 CLEANING EXISTING CATCH BASIN AND MANHOLE. EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR). POST CONSTRUCTION, ALL EXISTING DRAINAGE TO REMAIN AND NEW DRAINAGE SHALL BE CLEANED AS DIRECTED BY THE RESIDENT UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATOR).
- ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.
- THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE DURING CONSTRUCTION AS NEEDED FOR TEMPORARY USE, PRIOR TO PROPOSED DRAINAGE SYSTEMS BEING FUNCTIONAL AS IDENTIFIED ON PLANS.
- CATCH BASIN GRATES THAT WILL CARRY TRAFFIC DURING MOT OPERATIONS SHALL BE SECURED AS NOTED IN THE SPECIAL PROVISIONS.

EROSION CONTROL NOTES:

- 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 BID ITEMS.
- 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.
- ALL NON-ROCK SLOPES SHALL BE SEEDED WITH SEEDING METHOD NO. 2.
- MULCH SHALL BE APPLIED IN SEEDED AREAS, EXCEPT WHERE EROSION CONTROL BLANKET IS SPECIFIED.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
- TEMPORARY BERMS AND TEMPORARY SLOPE DRAINS ARE ANTICIPATED AT ALL STONE DOWNSPOUT LOCATIONS WHILE GROWTH IS BEING ESTABLISHED ON SIDE SLOPES AND PRIOR TO RIPRAP INSTALLATION.
- TEMPORARY EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED IN ALL DITCHES AND 2:1 SLOPES FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6' WIDE OR AS DESIGNATED BY THE RESIDENT.
- PLACE A 2' WIDE STRIP OF TEMPORARY EROSION CONTROL BLANKET ON THE SIDE SLOPES ALONG THE TOP OF THE RIPRAP AND BEHIND THE WINGWALLS.
- TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODABLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS. AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST. THE CONTRACTOR IS RESPONSIBLE FOR APPLYING TEMPORARY MULCH AS NECESSARY, IN ACCORDANCE WITH THE LATEST EDITION OF THE BMP'S, TO MINIMIZE SOIL EROSION PRIOR TO THE APPLICATION OF THE FINAL SLOPE TREATMENT.
- TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.
- A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT ALL STREAM LOCATIONS AND OPEN WATER WETLANDS AS SHOWN ON THE PLANS.
- TEMPORARY STONE CHECK DAMS SHALL BE PLACED IN THE EXISTING DITCHES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT. TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION BEST MANAGEMENT PRACTICES.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE USED AND MAINTAINED. NO TRACKING OF SOIL ON THE MAINE TURNPIKE OR LOCAL ROADS WILL BE ALLOWED.

LIGHTING NOTES:

- ALL PERMANENT WIRING SHALL BE COPPER AND WILL BE INCIDENTAL TO THE CONDUIT.
- ALL RESET LIGHT STANDARDS SHALL INCLUDE NEW BREAKAWAY COUPLINGS AND MOUNTING HARDWARE. PAYMENT FOR BREAKAWAY COUPLINGS SHALL BE INCIDENTAL TO REMOVE AND RESET LIGHT STANDARD.
- ALL USABLE EXISTING PRECAST FOUNDATIONS SHALL BE STACKED AT THE CROSBY MAINTENANCE FACILITY. PAYMENT FOR STACKING OF FOUNDATIONS SHALL BE INCIDENTAL TO REMOVE AND RESET LIGHT STANDARD OR REMOVE AND STACK LIGHT STANDARD.
- THE CONTRACTOR SHALL VERIFY LIGHTING CIRCUIT VOLTAGE PRIOR TO ORDERING ANY LIGHTING COMPONENTS.
- ALL NEW OR RESET LIGHT STANDARDS SHALL BE PLACED ON NEW 24" FOUNDATIONS.
- BREAKAWAY COUPLINGS ARE REQUIRED FOR ALL PERMANENT LIGHT POLES.
- EXISTING LIGHTING STANDARDS WILL VARY THROUGHOUT THE PROJECT. ALL LIGHTING STANDARDS WILL BE TEMPLATED TO ENSURE THE CORRECT BOLT PATTERN IS USED FOR EACH PROPOSED FOUNDATION.
- LOCATION OF ELECTRICAL CONDUIT IS SCHEMATIC ONLY.
- THE CONTRACTOR SHALL NOTIFY THE RESIDENT 30 DAYS PRIOR TO EXIT 45 NB ON RAMP LIGHTING WORK SO THAT THE RESIDENT CAN COORDINATE THE POWER SOURCE.

Scale:				Designed by:			
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No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
		By	Date		By	Date	
		Designed	ALZ 2/20	Checked	TRS	2/20	
		Drawn	GW 2/20	In Charge of	RAL	2/20	



HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 GENERAL NOTES

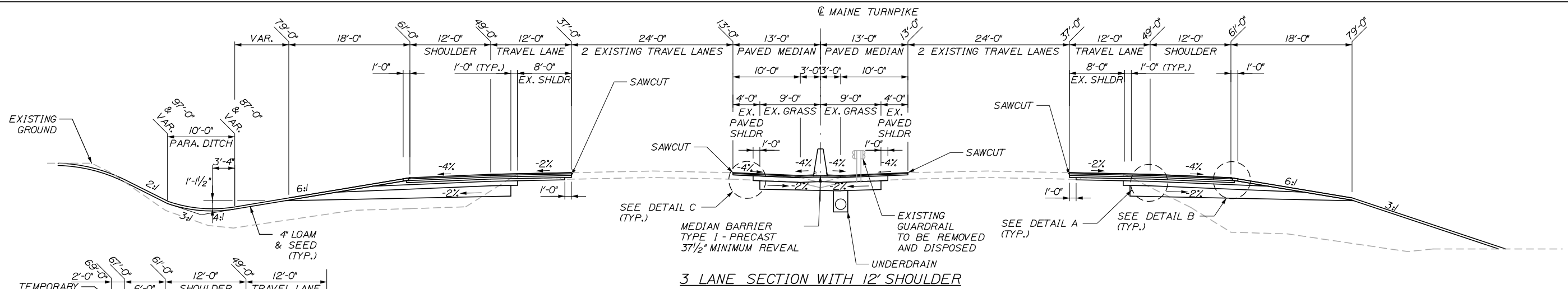
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

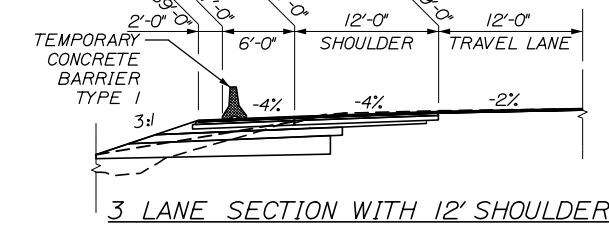
SHEET NUMBER: GN-01

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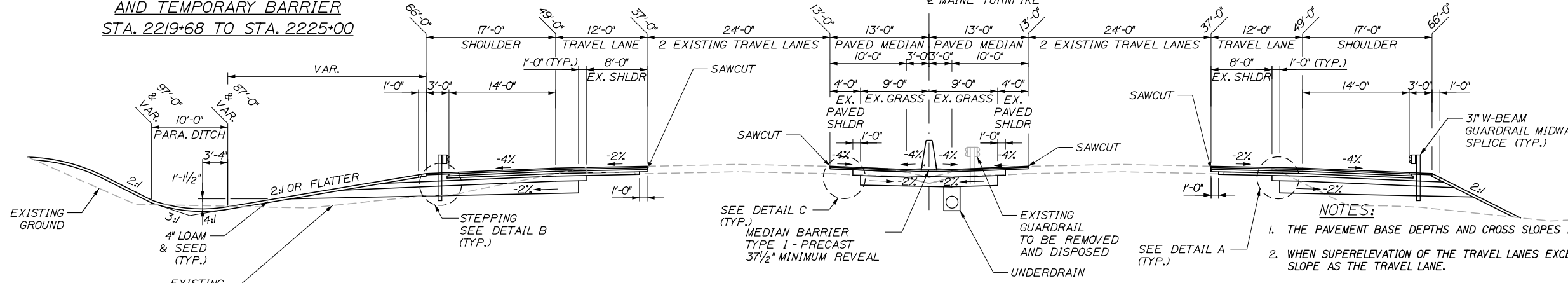
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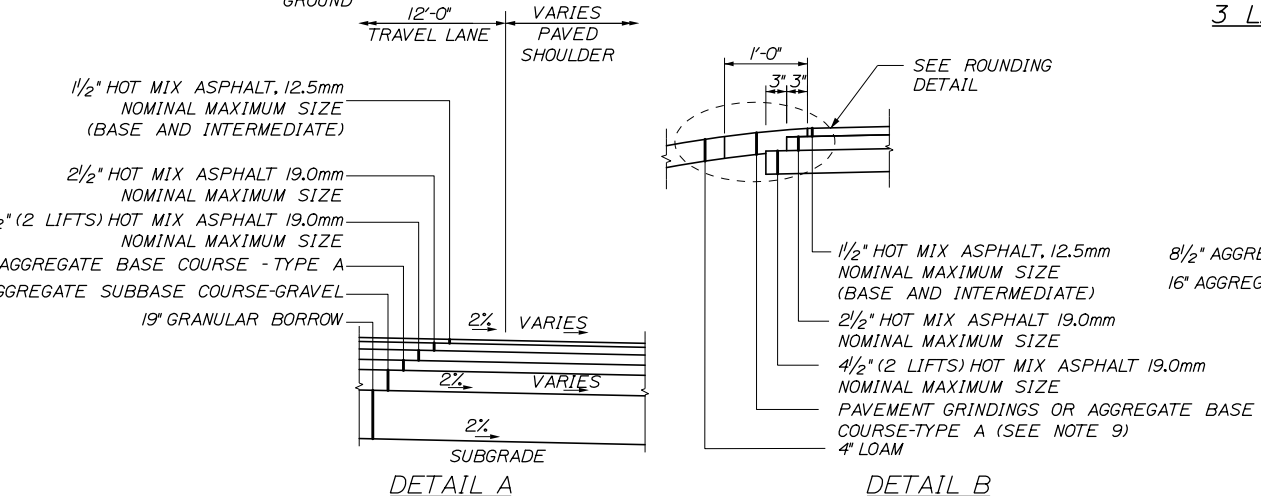
3 LANE SECTION WITH 12' SHOULDER



3 LANE SECTION WITH 12' SHOULDER AND TEMPORARY BARRIER STA. 2219+68 TO STA. 2225+00

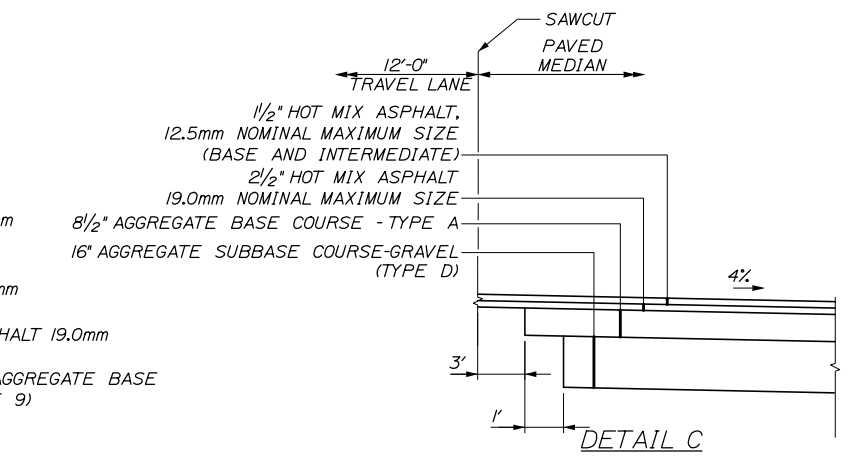


3 LANE SECTION WITH 17' SHOULDER



DETAIL A

DETAIL B



DETAIL C

- NOTES:
1. THE PAVEMENT BASE DEPTHS AND CROSS SLOPES AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
 2. WHEN SUPERELEVATION OF THE TRAVEL LANES EXCEEDS 4%, LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVEL LANE.
 3. *ROLLOVER* ALGEBRAIC DIFFERENCE IN RATES OF CROSS SLOPE SHALL NOT EXCEED 8%.
 4. CROWNS FOR BOTH SUPERELEVATED AND NORMAL SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
 5. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS PRIOR TO PAVING. REMAINDER OF SAWCUT TO BE BITUMINOUS TACK COAT. PAYMENT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.
 6. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
 7. CONSTRUCT A 20' TRANSITION FOR AGGREGATE COURSE DEPTHS FROM RAMP ADJACENT TO TURNPIKE TO RAMP PROPER.
 8. UNSUITABLE SUBGRADE CONSISTING OF SOFT COHESIVE SOIL SHALL BE EXCAVATED TO A MINIMUM OF TWO FEET BELOW SUBGRADE AND REPLACED WITH A LAYER OF SEPARATION GEOTEXTILE AND GRANULAR BORROW.
 9. PAVEMENT GRINDINGS OR AGGREGATE BASE COURSE-TYPE A SHALL BE PAID FOR UNDER PAY ITEM 304.14.
 10. THE PAVEMENT PLACED IN THE AREA BETWEEN MEDIAN BARRIER AND MEDIAN GUTTER, IS QUANTIFIED AS, AND WILL BE PAID FOR UNDER, THE PAVEMENT ITEMS NOTED IN DETAIL C.
 11. THE MAXIMUM VERTICAL MEASUREMENT OF DEPTH FOR PAYMENT OF STRUCTURAL ROCK EXCAVATION WILL BE TO A HORIZONTAL PLANE LOCATED 12 INCHES BELOW THE BOTTOM OF THE INVERT OF THE PIPE FOR UNDERDRAIN TYPE "B" AND UNDERDRAIN TYPE "C"
 12. THE INVERT ELEVATION OF UNDERDRAIN TYPE "B" OUTLETS SHALL BE A MINIMUM OF 6 INCHES ABOVE THE FLOW LINE OF A DITCH OF THE ORIGINAL GROUND.

Scale: NOT TO SCALE

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
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 340 County Road, Suite 6-C
 Westbrook, ME 04092
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MAINE TURNPIKE

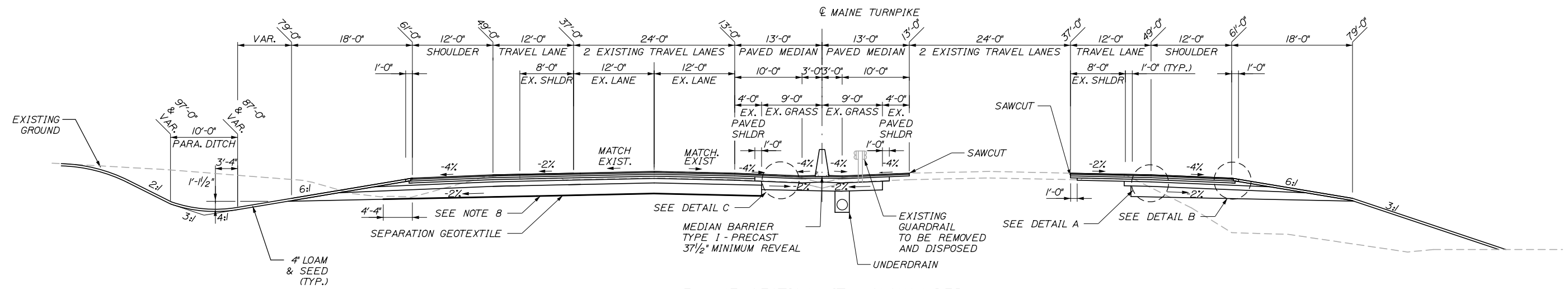
THE GOLD STAR MEMORIAL HIGHWAY

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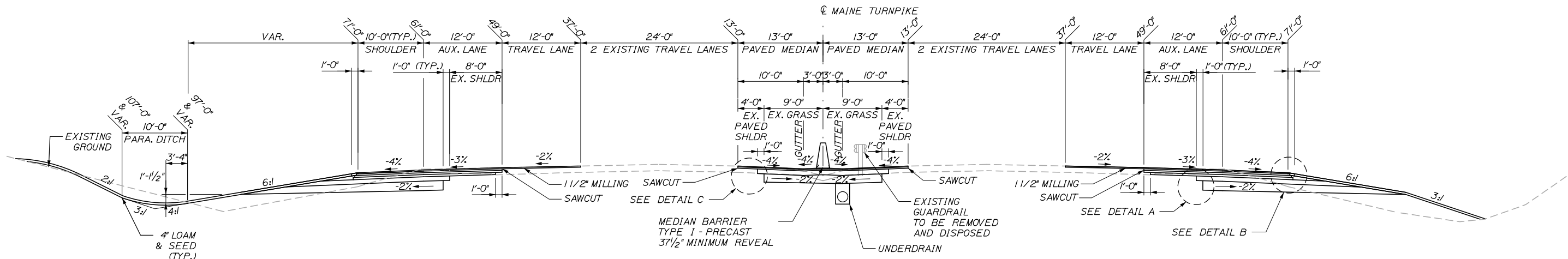
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 TYPICAL SECTIONS (1 OF 3)

SHEET NUMBER: TYP-01
 CONTRACT: 2020.03
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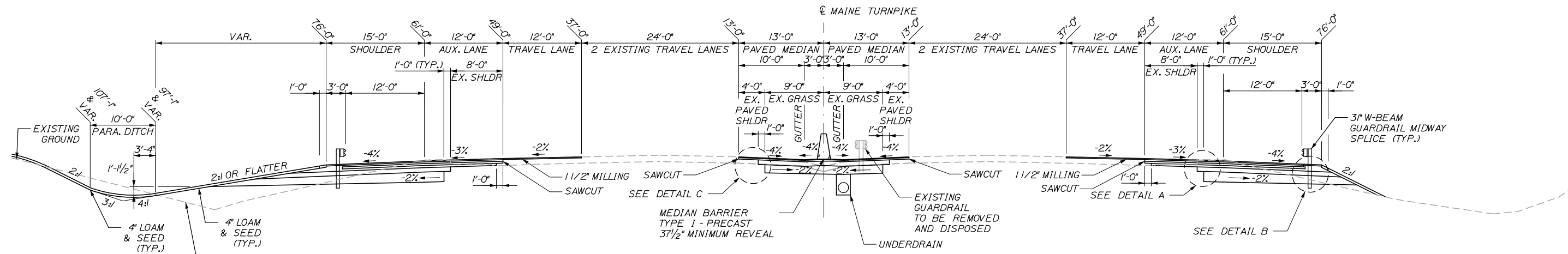
Date: 2/25/2020



**3 LANE SECTION WITH 12' SHOULDER
FULL DEPTH RECONSTRUCTION SB
STA. 2255+00 TO STA. 2265+40**



**ACCELERATION/ DECELERATION LANE SECTION
WITH 10' SHOULDER**



**ACCELERATION/ DECELERATION LANE SECTION
WITH 15' SHOULDER**

Scale: NOT TO SCALE

No.	Revision	By	Date

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Westbrook, ME 04092
TEL (207) 774-5155
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MAINE TURNPIKE

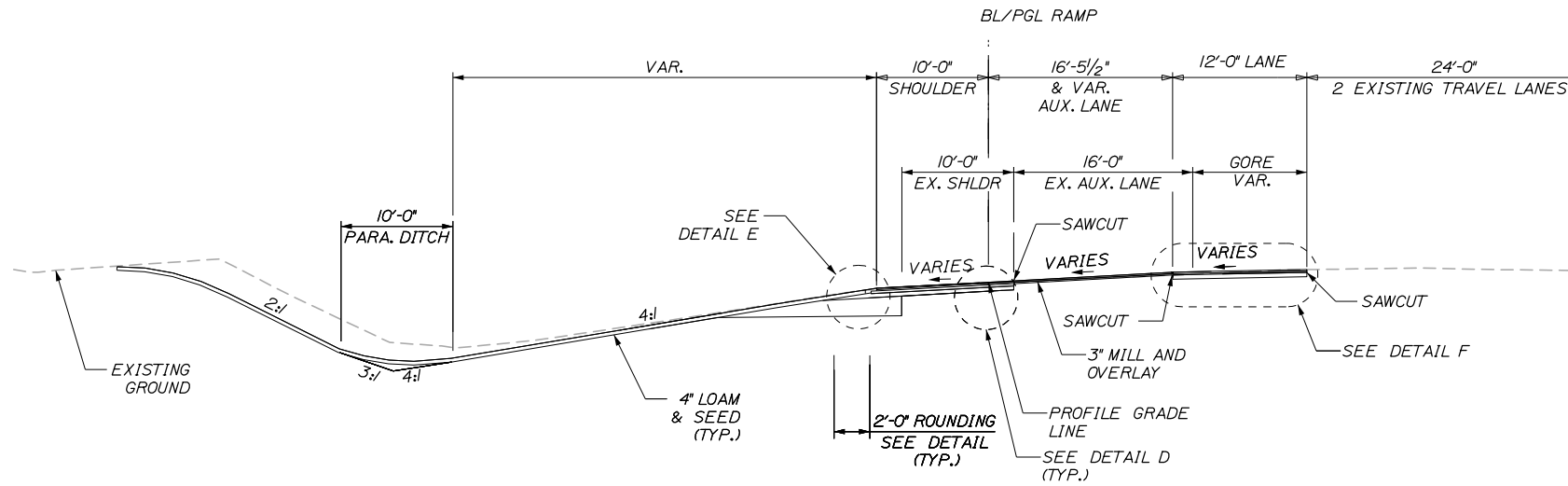
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

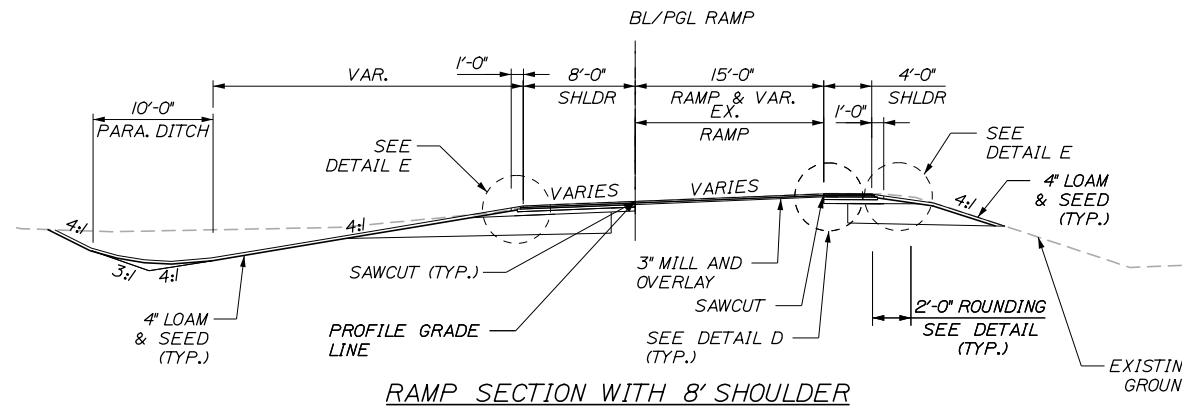
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
TYPICAL SECTIONS (2 OF 3)

SHEET NUMBER: TYP-02
CONTRACT: 2020.03
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Date: 2/25/2020

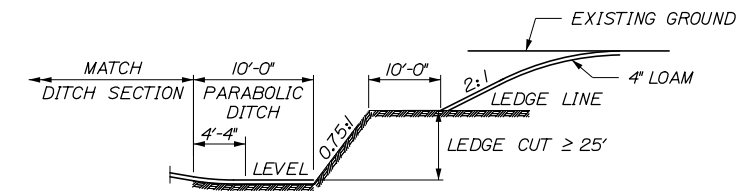
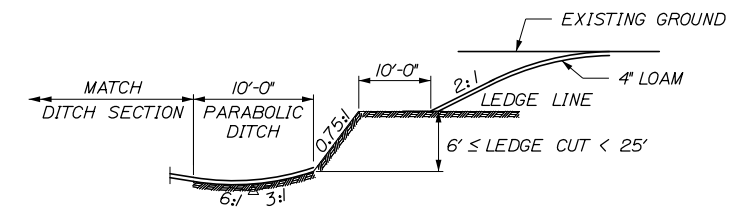
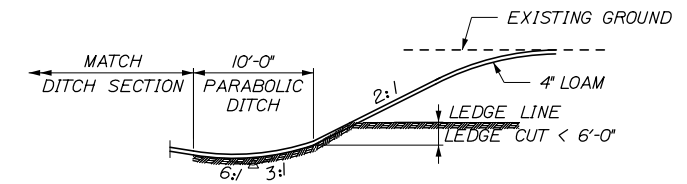
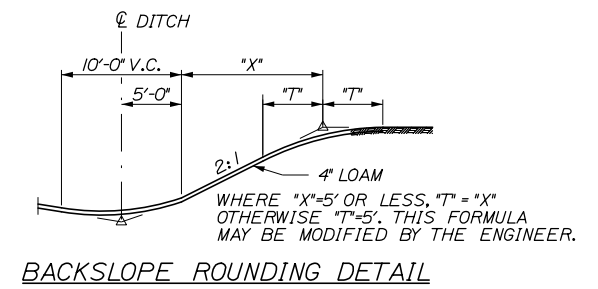


RAMP SECTION WITH PAVED GORE



RAMP SECTION WITH 8' SHOULDER

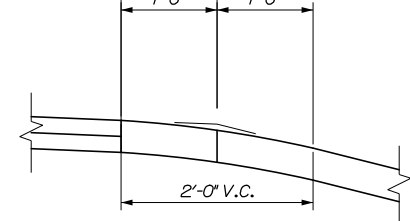
SUPERELEVATION (e)		
LEFT %	STATION	RIGHT %
45NB ON RAMP		
+9.17	34+50	-9.17
+5.20	35+25	-5.20
+5.20	36+00	-5.20
+4.00	36+50	-4.00
45SB ON RAMP		
+4.00	2+75	-4.00
+5.40	3+25	-5.40
+5.40	4+25	-5.40
+6.58	4+50	-6.58
45SB OFF RAMP		
+5.70	19+25	-5.70
+4.60	19+50	-4.60
+4.60	20+50	-4.60
+4.00	21+50	-4.00
46NB OFF RAMP		
+2.00	66+00	-2.00
+3.00	67+60	-3.00
46SB ON RAMP		
+3.00	40+00	-3.00
+3.00	47+60	-3.00



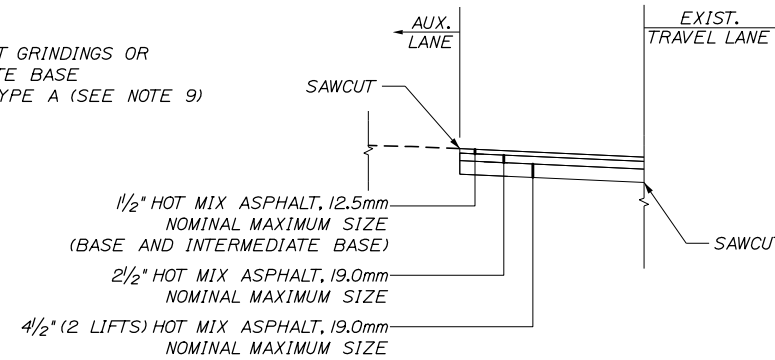
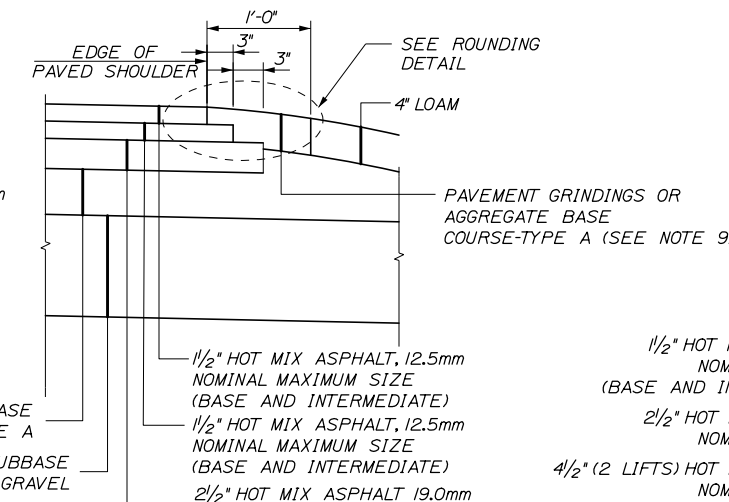
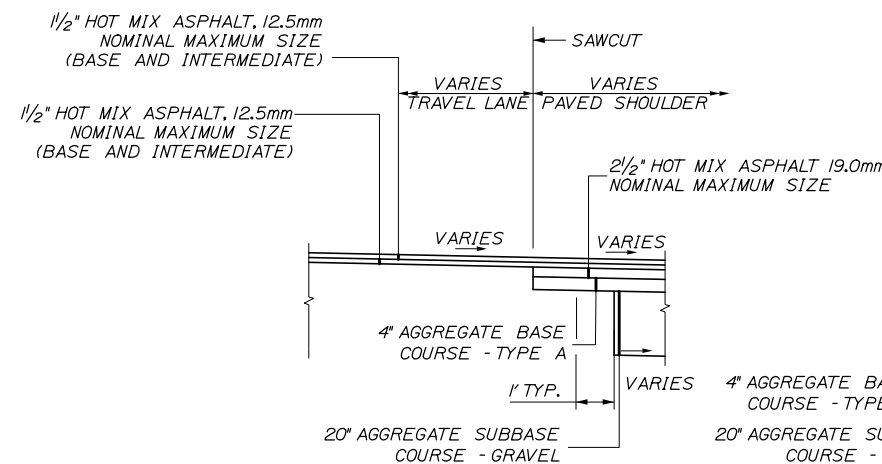
LEDGE ROCK CUT

PAVEMENT GRINDINGS OR
AGGREGATE BASE COURSE-TYPE A
(SEE NOTE 9)

EDGE OF PAVED
SHOULDER



ROUNDING DETAIL



Scale: NOT TO SCALE

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HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA
MAINLINE IMPROVEMENTS
MM 43.7 TO MM 46.4
TYPICAL SECTION (3 OF 3)

SHEET NUMBER: TYP-03

CONTRACT: 2020.03

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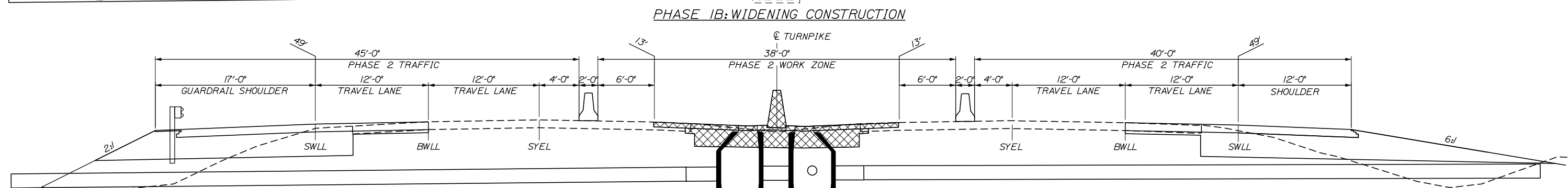
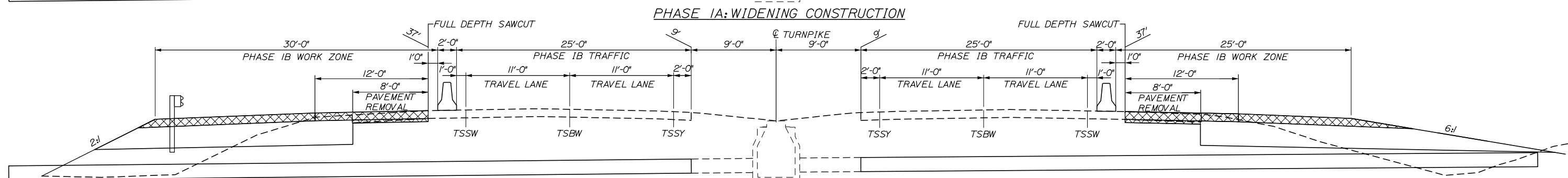
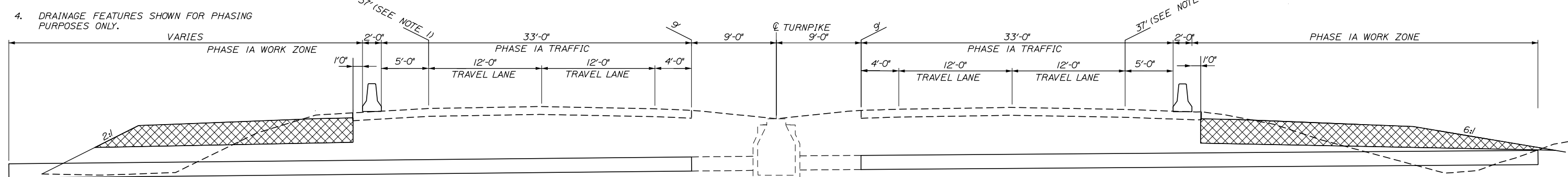
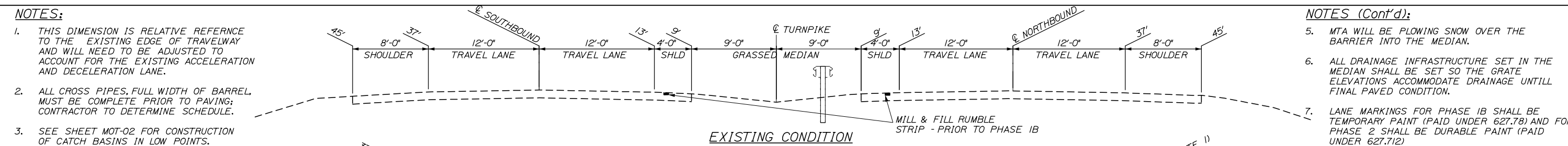
NOTES:

1. THIS DIMENSION IS RELATIVE REFERENCE TO THE EXISTING EDGE OF TRAVELWAY AND WILL NEED TO BE ADJUSTED TO ACCOUNT FOR THE EXISTING ACCELERATION AND DECELERATION LANE.
2. ALL CROSS PIPES, FULL WIDTH OF BARREL MUST BE COMPLETE PRIOR TO PAVING; CONTRACTOR TO DETERMINE SCHEDULE.
3. SEE SHEET MOT-02 FOR CONSTRUCTION OF CATCH BASINS IN LOW POINTS.
4. DRAINAGE FEATURES SHOWN FOR PHASING PURPOSES ONLY.

NOTES (Cont'd):

5. MTA WILL BE PLOWING SNOW OVER THE BARRIER INTO THE MEDIAN.
6. ALL DRAINAGE INFRASTRUCTURE SET IN THE MEDIAN SHALL BE SET SO THE GRATE ELEVATIONS ACCOMMODATE DRAINAGE UNTILL FINAL PAVED CONDITION.
7. LANE MARKINGS FOR PHASE 1B SHALL BE TEMPORARY PAINT (PAID UNDER 627.78) AND FOR PHASE 2 SHALL BE DURABLE PAINT (PAID UNDER 627.712)


Date: 2/25/2020



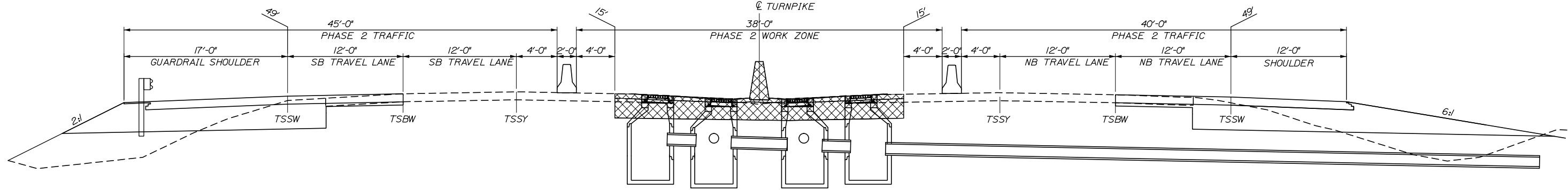
LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- TSSY = 6" TEMPORARY SINGLE SOLID YELLOW
- TSBW = 6" TEMPORARY SINGLE BROKEN WHITE
- TSSW = 6" TEMPORARY SINGLE SOLID WHITE

Filename: PAW1_DETAILS_MOT-01

Scale: NOT TO SCALE				Designed by: HNTB				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909				 THE GOLD STAR MEMORIAL HIGHWAY				PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4 MAINTENANCE OF TRAFFIC TYPICAL SECTIONS			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.				MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE				CONTRACT: 2020.03											
No.	Revision	By	Date	By	Date	By	Date	SHEET NUMBER: MOT-01				9 OF 310							
				Designed	LAD	2/20	Checked	TRS	2/20										
				Drawn	GW	2/20	In Charge of	RAL	2/20										

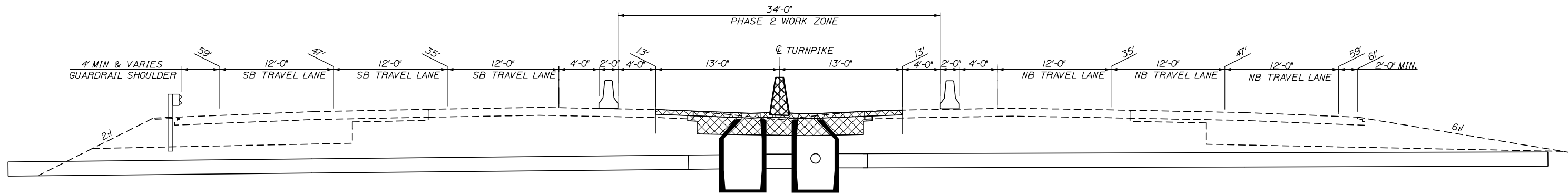
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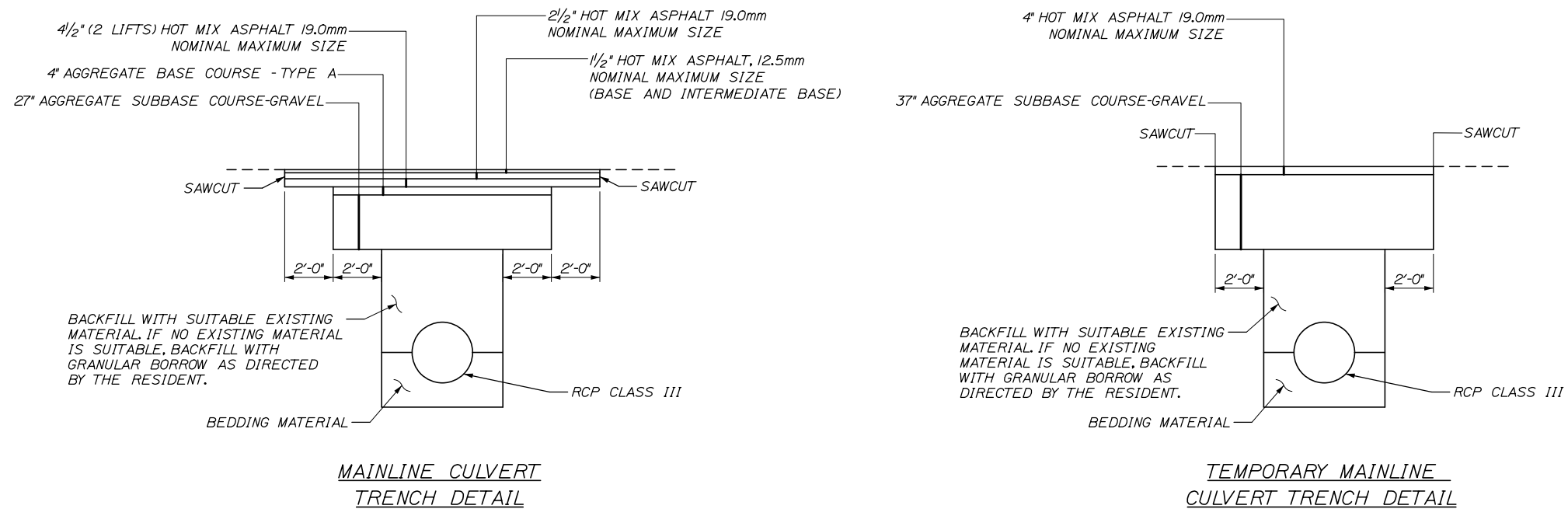
NOTES:

1. LOW POINTS REQUIRE ADDITIONAL CATCH BASINS WHICH ALSO REQUIRE A CHANGE IN CONTRACTOR WORK AREA.

**PHASE 2: MEDIAN CONSTRUCTION
LOW POINTS**
(SEE NOTE 1)



**PHASE 2: MEDIAN CONSTRUCTION
SOUTH OF EXIT 44 SB ACCELERATION LANE**



Filename: PAW1_DETAILS_MOT-02

Scale: **NOT TO SCALE**

No.	Revision	By	Date


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

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

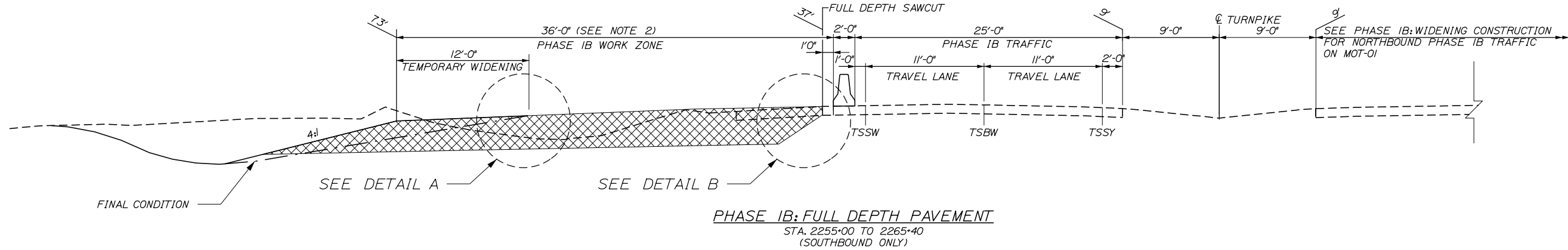
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

SHEET NUMBER: MOT-02
10 OF 310

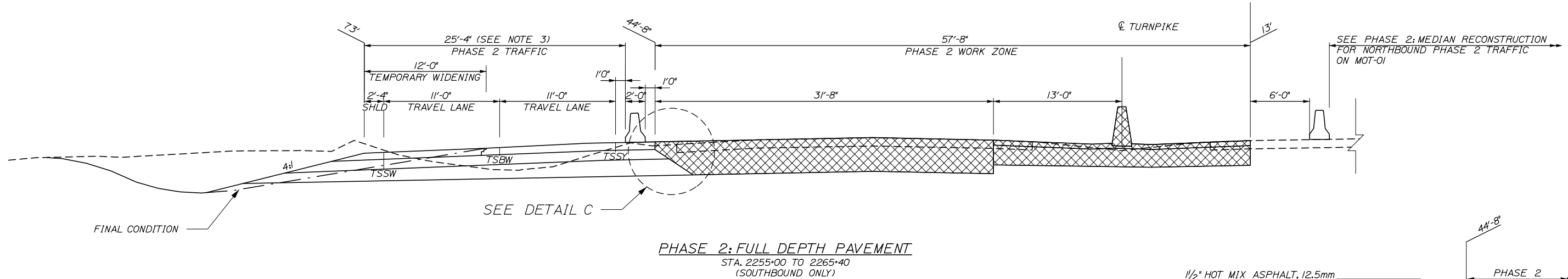
CONTRACT: 2020.03

Date: 2/25/2020

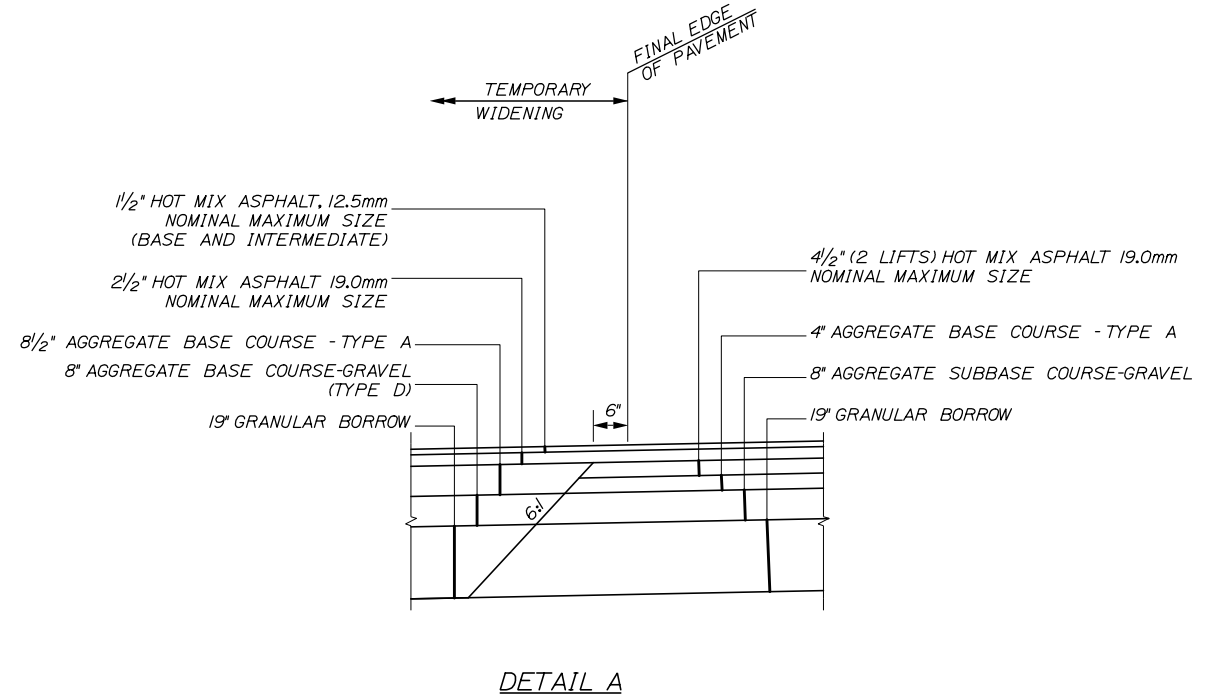
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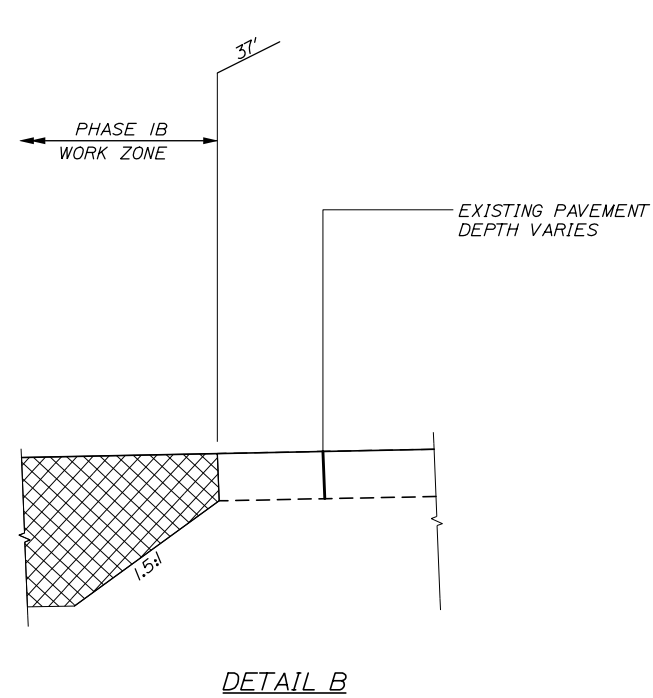
PHASE 1B: FULL DEPTH PAVEMENT
STA. 2255+00 TO 2265+40
(SOUTHBOUND ONLY)



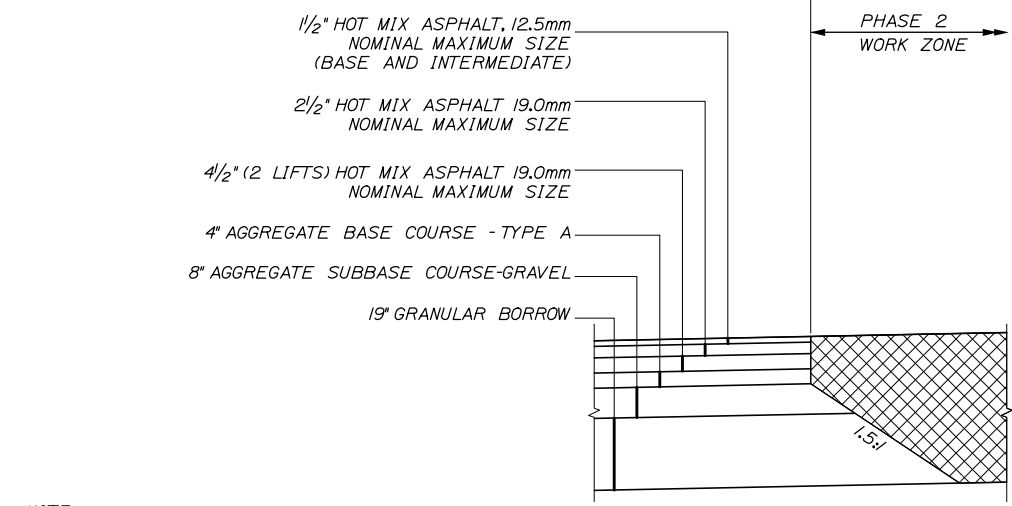
PHASE 2: FULL DEPTH PAVEMENT
STA. 2255+00 TO 2265+40
(SOUTHBOUND ONLY)



DETAIL A



DETAIL B



DETAIL C

- NOTE:**
- FOR PLAN LAYOUT, REFER TO PLAN SHEETS MOT-22 TO MOT-23
 - FROM STA. 2264+50 TO STA. 2267+50 WIDTH IS 42'-8". FROM STA. 2268+75 TO STA. 2270+50 WIDTH IS 45'-2". EXTRA WIDTH IS ADDED TO THE OUTSIDE SHOULDER.
 - FROM STA. 2264+50 TO STA. 2267+50 WIDTH IS 32'-0". FROM STA. 2268+75 TO STA. 2270+50 WIDTH IS 34'-6". EXTRA WIDTH IS ADDED TO THE OUTSIDE SHOULDER.

Scale: **NOT TO SCALE**

No.	Revision	By	Date


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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

**PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS**

SHEET NUMBER: MOT-03
11 OF 310

CONTRACT: 2020.03

GENERAL MAINTENANCE OF TRAFFIC NOTES

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL 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. 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 - REMOVE EXISTING PAVEMENT MARKINGS.
5. TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.78 - TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW.
6. PRIOR TO SHIFTING TRAFFIC, THE CONTRACTOR SHALL REMOVE THE EXISTING RUMBLE STRIPS AND PAVE FLUSH WITH THE SHOULDER PAVEMENT. PAYMENT WILL BE UNDER ITEM 202.206 - REMOVING RUMBLE STRIPS.
7. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341 - WORK ZONE CRASH CUSHION - TL-3.
8. TAPER RATE FOR TEMPORARY CONCRETE BARRIER SHALL BE A MINIMUM OF 8:1 UNLESS MORE SPACE IS AVAILABLE THEN THE BARRIER SHALL BE TAPERED AT 15:1 OR 100' WHICHEVER IS LONGEST. THE TAPERED BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO THE MAINE TURNPIKE SHOULDERS OR LANES. THE BARRIER SHALL TERMINATE AT A LOCATION WHERE A CRASH CUSHION CAN BE INSTALLED A MINIMUM OF 3 FEET FROM THE TRAVEL LANE.
9. PAVEMENT STRIPING OF THE TAPER SHALL PROVIDE A MINIMUM OF 250' BUFFER TO WHERE THE BARRIER BECOMES PARALLEL TO THE TRAVEL LANE.
10. STANDARD SINGLE LANE CLOSURES FOR LANES 1 AND 2 SHALL BE USED FOR DRAINAGE WORK, GUARDRAIL WORK, MEDIAN WORK, EQUIPMENT MOVES, BERM DROP OFF CORRECTION WORK, PAINTING OF SOLID LANE LINES AND ALL OTHER WORK NOT REQUIRING ENCROACHMENT INTO THE ADJACENT LANE.
11. PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN IN PHASE IB, EXISTING CATCH BASIN GRATES SHALL BE SEALED. THE FRAME SHALL BE CLEANED TO ACCEPT A BEAD OF ELASTOMERIC SEALER. ELASTOMERIC SEALER SHALL BE SIKAFLEX 1A AS MANUFACTURED BY SIKA OR APPROVED EQUAL SEALER SHALL BE PLACED IN A CONTINUOUS BEAD OVER THE HORIZONTAL SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. EXISTING GRATES SHALL BE REINSTALLED AND ALLOWED TO SET FOR AN MINIMUM OF 1-1/2 HOURS BEFORE RECEIVING TRAFFIC LOAD. WORK SHALL BE INCIDENTAL TO ITEM 652.361 - MAINTENANCE OF TRAFFIC CONTROL DEVICES.
12. PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN IN PHASE IB, SHOULDER SHALL BE INSPECTED AND BERM CORRECTION SHALL BE MADE PER DETAIL ON THIS SHEET AS DIRECTED BY THE RESIDENT. PAYMENT FOR BERM CORRECTION SHALL BE MADE UNDER ITEM 470.08 - BERM DROP OFF CORRECTION.
13. SPEED LIMIT, STOP, EXIT AND YIELD SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT TO THE BOTTOM OF SIGN.
14. CONTRACTOR SHALL MAINTAIN FLOW IN ALL EXISTING DRAINAGE STRUCTURES AT ALL TIMES UNTIL THE PROPOSED SYSTEM HAS BEEN INSTALLED.
15. ALL TEMPORARY CONSTRUCTION BARRIER SHALL HAVE DRAINAGE SLOTS TO ALLOW FLOW OF WATER.
16. CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF SPEC. SECTION 105.2.6, IF EXPLOSIVES ARE USED.
17. ALL WORK ZONE DEVICES MANUFACTURED AFTER DECEMBER 31, 2019 NEED TO MEET MASH REQUIREMENTS.
18. THE TEMPORARY CONCRETE BARRIER, TYPE 1 TO BE LEFT IN PLACE SHALL UTILIZE BARRIER SUPPLIED BY THE AUTHORITY.

NOTES ON MOT SIGNS

1. ALL PROPOSED CONSTRUCTION SIGNS SHALL BE PLACED ON BOTH SIDES OF THE ROAD WITH THE EXCEPTION OF ON RAMP SIGNS AND AS SHOWN ON THE PLANS.
2. NO SIGNS ON EASELS SHALL BE PLACED ON 4 FT. SHOULDERS WITH GUARDRAIL. SIGNS REQUIRED AT THESE LOCATIONS SHALL BE PLACED ON TALLER EASELS ON THE MEDIAN SIDE OF THE GUARDRAIL.
3. ALL TEMPORARY LANE CLOSURE SIGNS ARE TO BE MOUNTED ON EASELS.
4. ERECT CS-3 AND W3-4 SIGNS IMMEDIATELY PRIOR TO SCHEDULED STOPPAGES FOR EQUIPMENT MOVES AND REMOVE THE CS-3 AND W3-4 SIGNS IMMEDIATELY AFTER THE SCHEDULED STOPPAGES ARE COMPLETE.
5. ALL MOT SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE RESIDENT.
6. EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WORK ZONE SIGNS SHALL BE COVERED.
7. CONTRACTOR SHALL INSTALL SIGNS PER STANDARD MUTCD DETAIL FOR BLASTING ZONE (TA-2) WHERE NEEDED.
8. CONTRACTOR TO COORDINATE WITH ADJACENT CONTRACTS RESIDENT ENGINEERS TO AVOID HAVING OVERLAPPING CONSTRUCTION SIGNS.

TEMPORARY RUMBLE STRIP NOTES

1. IF TEMPORARY RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:
 - * ADJACENT TO THE WORK ZONE (1 UNIT)
 - * UPSTREAM FROM THE TAPER FOR THE WORKZONE (2 UNITS)
 - * BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)


W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION. ONLY ONE SET OF W8-24a SIGNS ARE REQUIRED FOR ANY OF THE ABOVE CONFIGURATIONS.
2. RUMBLE STRIPS MAY BE PLACED UPSTREAM OF THE TAPER BETWEEN THE W3-5 SIGNS AND THE W4-2 SIGNS. IF RUMBLE STRIPS ARE INSTALLED PRIOR TO TAPER, W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE W8-24a SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS.

ABBREVIATIONS FOR ALL M.O.T. PLANS

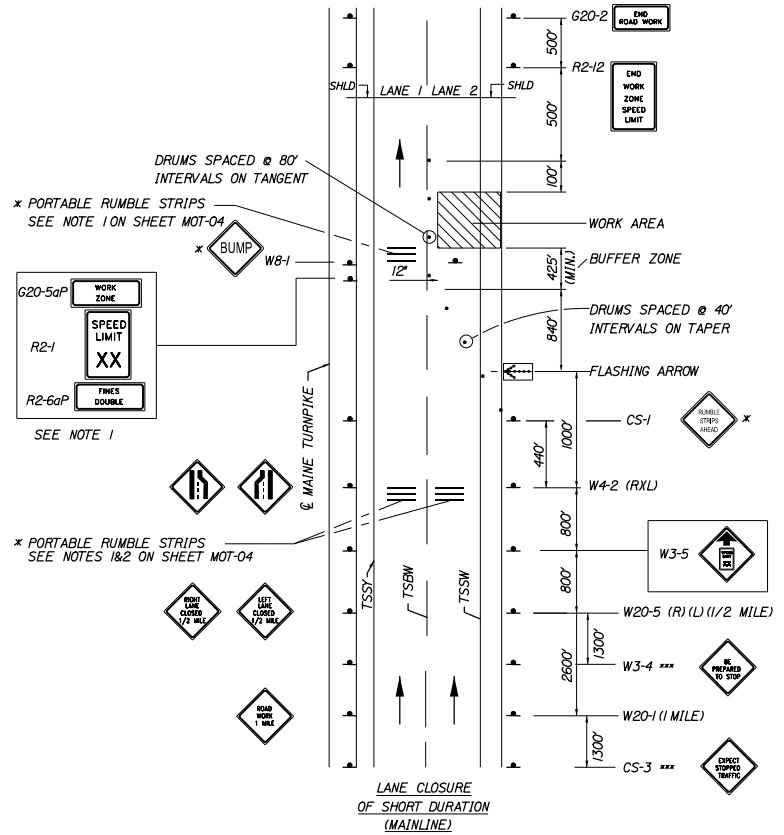
TSSW - TEMPORARY SINGLE SOLID WHITE LINE
 TSBW - TEMPORARY SINGLE BROKEN WHITE LINE
 TSDW - TEMPORARY SINGLE DASHED WHITE LINE
 TSSY - TEMPORARY SINGLE SOLID YELLOW LINE

Date: 2/25/2020

Filename: PAW1_DETAILS_MOT-04

Scale: NOT TO SCALE		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4 MAINTENANCE OF TRAFFIC GENERAL NOTES																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 15%;">Revision</th> <th style="width: 5%;">By</th> <th style="width: 5%;">Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>LAD</td> <td>2/20</td> <td>Checked</td> <td>TRS</td> <td>2/20</td> </tr> <tr> <td>Drawn</td> <td>GW</td> <td>2/20</td> <td>In Charge of</td> <td>RAL</td> <td>2/20</td> </tr> </tbody> </table>			By	Date		By	Date	Designed	LAD	2/20	Checked	TRS	2/20	Drawn	GW	2/20	In Charge of	RAL	2/20	MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE		CONTRACT: 2020.03 SHEET NUMBER: MOT-04 12 OF 310	
No.	Revision	By	Date																																								
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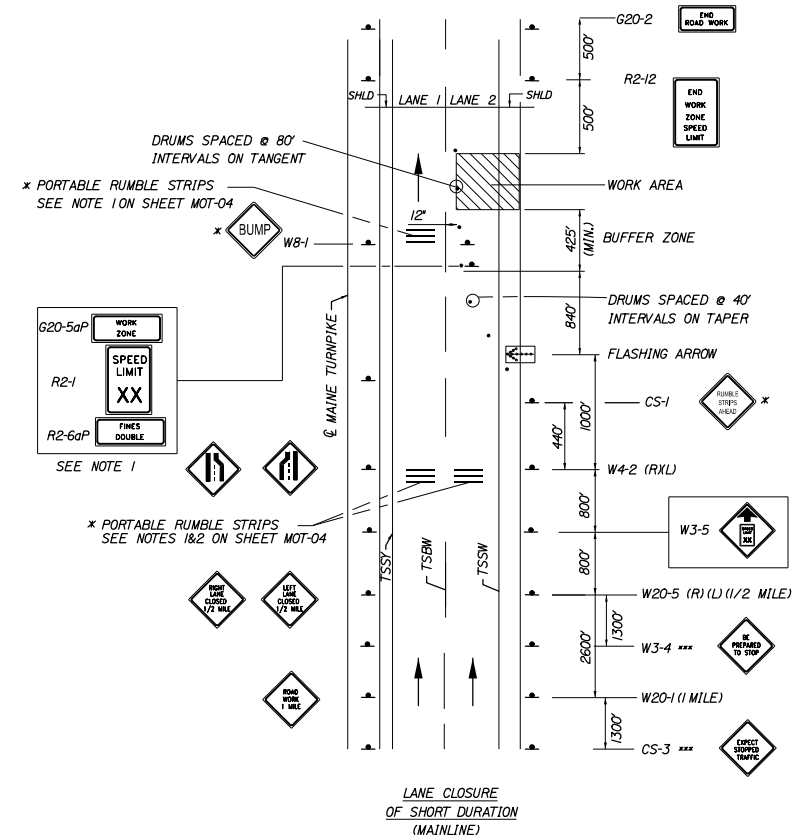
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SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP

* OPTIONAL
 *** TO BE USED DURING STOPPAGES OF TRAFFIC

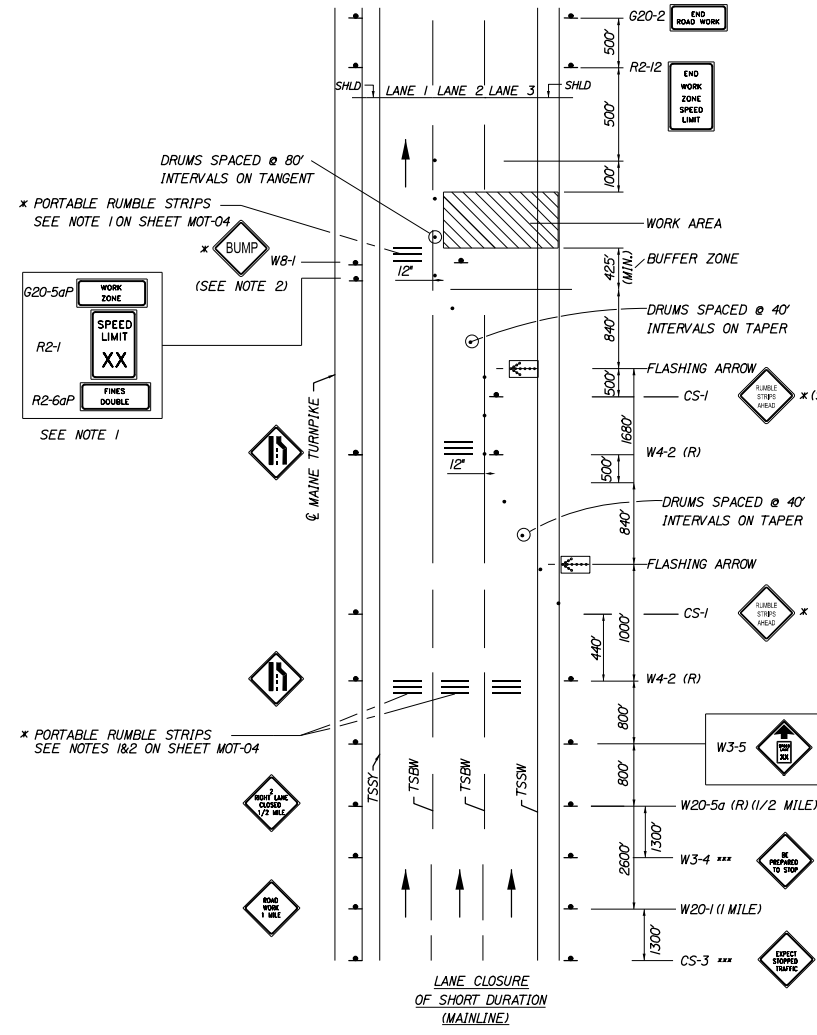
NOTE:
 1. FOR POST MOUNTED SIGN SETUP UNCOVER SIGNS ADJACENT TO OPEN LANE FOR SHORT TERM LANE CLOSURE (LESS THAN 24 HOURS); UNCOVER BOTH SIGNS FOR PERMANENT LANE CLOSURE (GREATER THAN 24 HOURS).



SINGLE LANE CLOSURE - SIGNS ON EASELS

* OPTIONAL
 *** TO BE USED DURING STOPPAGES OF TRAFFIC

NOTE:
 1. FOR EASEL SET UP ONLY, THIS SIGN IS NOT BRACKETED. ONE SIGN ASSEMBLY IS PLACED AT THE END OF THE TAPER.

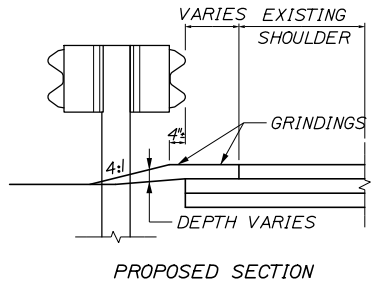
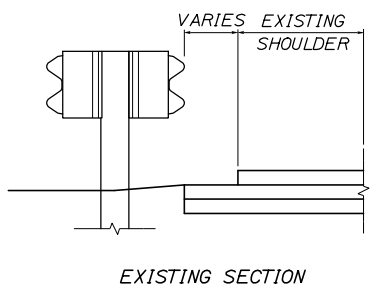


DOUBLE LANE CLOSURE - POST MOUNTED SIGN SETUP

* OPTIONAL
 *** TO BE USED DURING STOPPAGES OF TRAFFIC

NOTE:
 1. FOR POST MOUNTED SIGN SETUP UNCOVER SIGNS ADJACENT TO OPEN LANE FOR SHORT TERM LANE CLOSURE (LESS THAN 24 HOURS); UNCOVER BOTH SIGNS FOR PERMANENT LANE CLOSURE (GREATER THAN 24 HOURS).
 2. SIGN TO BE LOCATED ON THE PAVEMENT SHALL BE MOUNTED ON AN EASEL.

NOTE:
 1. SEE SPECIAL PROVISION 652 FOR ADDITIONAL MAINTENANCE OF TRAFFIC DETAILS INCLUDING LAYOUTS FOR MOT AT INTERCHANGE RAMP.



**BERM DROPOFF CORRECTION WITH GUARDRAIL
 MEDIAN GUARDRAIL
 NOT TO SCALE**

NOTE:
 1. BERM CORRECTION MUST BE COMPLETED PRIOR TO SHIFTING TRAFFIC TO INSIDE SHOULDER IN PHASE 1B.

Filename: PAW1_DETAILS_MOT-05

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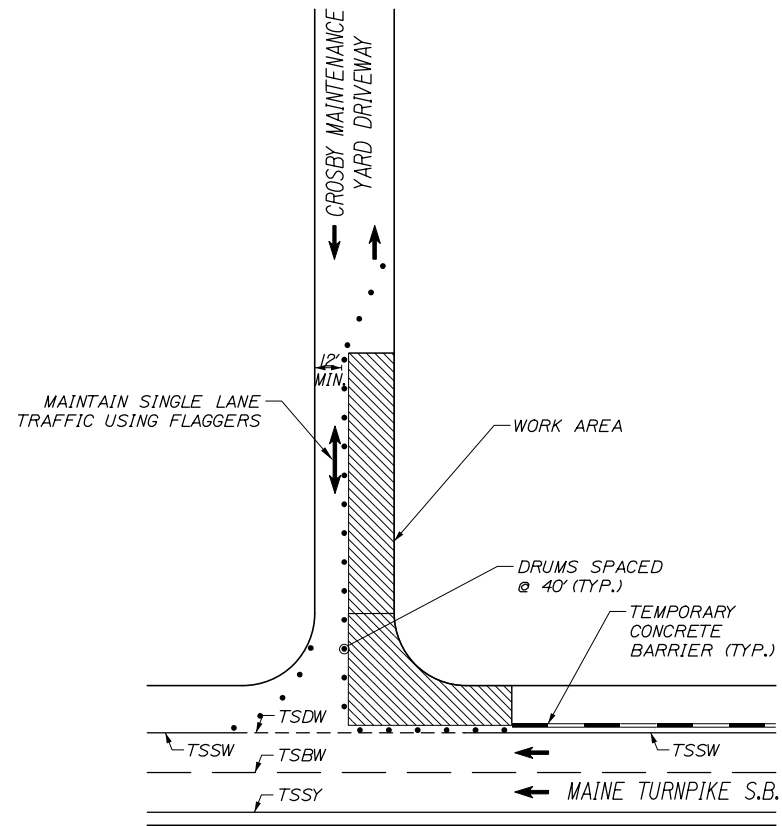
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PORTLAND AREA WIDENING &
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 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 STANDARD DETAILS

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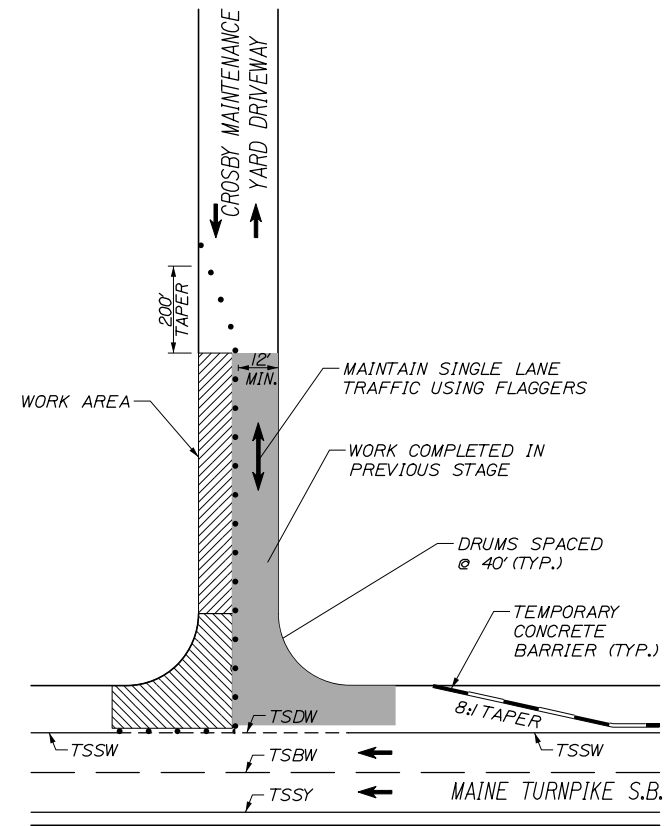
Date: 2/25/2020



NOTES:

1. SINGLE LANE WIDTH FOR TRUCK TRAFFIC SHALL BE MAINTAINED TO CROSBY MAINTENANCE YARD.
2. SCHEDULE OF WORK SHALL BE COORDINATED WITH THE AUTHORITY.
3. NIGHT WORK MAY BE REQUIRED. SCHEDULE OF WORK SHALL BE COORDINATED WITH THE AUTHORITY.

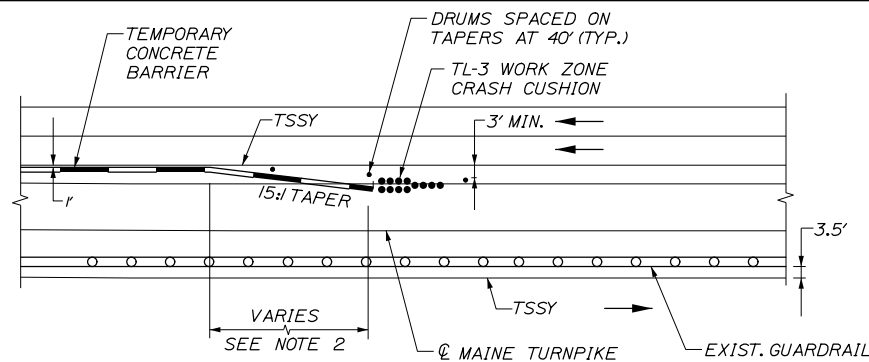
CROSBY MAINTENANCE YARD DRIVEWAY
NORTH SIDE OF DRIVEWAY CLOSURE
(STAGE 1)



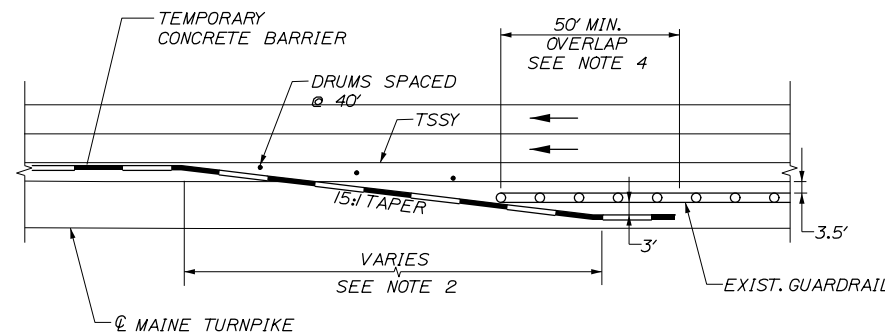
NOTES:

1. SINGLE LANE WIDTH FOR TRUCK TRAFFIC SHALL BE MAINTAINED TO CROSBY MAINTENANCE YARD.
2. SCHEDULE OF WORK SHALL BE COORDINATED WITH THE AUTHORITY.
3. NIGHT WORK MAY BE REQUIRED. SCHEDULE OF WORK SHALL BE COORDINATED WITH THE AUTHORITY.

CROSBY MAINTENANCE YARD DRIVEWAY
SOUTH SIDE OF DRIVEWAY CLOSURE
(STAGE 2)



EXIST. GUARDRAIL ON FAR SIDE OF MEDIAN



EXIST. GUARDRAIL ON NEAR SIDE OF MEDIAN

CONCRETE BARRIER / GUARDRAIL OVERLAP DETAIL

NOTES:

1. BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION (TL-3), OR LAPPED BEHIND GUARDRAIL.
2. 15:1 MINIMUM TAPERED BARRIER LENGTH DEPENDENT ON LOCATION OF BARRIER RELATIVE TO MAINE TURNPIKE SHOULDERS OR LANES.
3. IF A WORK ZONE CRASH CUSHION - TL3 IS USED FOR A MEDIAN SHOULDER CLOSURE, THE CRASH CUSHION SYSTEM MUST BE FOUNDED ON A LEVEL SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY WORK NECESSARY TO PROVIDE A LEVEL SURFACE WILL BE INCIDENTAL TO THE CRASH CUSHION ITEM.
4. IF THE 50' MIN. LENGTH OF OVERLAP CANNOT BE MET, THEN THE EXISTING GUARDRAIL END MUST BE ANCHORED IN ACCORDANCE WITH DRAWING SEW02a IN THE AASHTO-AGC-ARBTA JOINT COMMITTEE TASK FORCE 13 REPORT, DRAFTED MAY 1995.
5. PAYMENT SHALL BE INCIDENTAL TO TEMPORARY CONCRETE BARRIER.

Filename: PAW1_DETAILS_MOT-06

Scale:			
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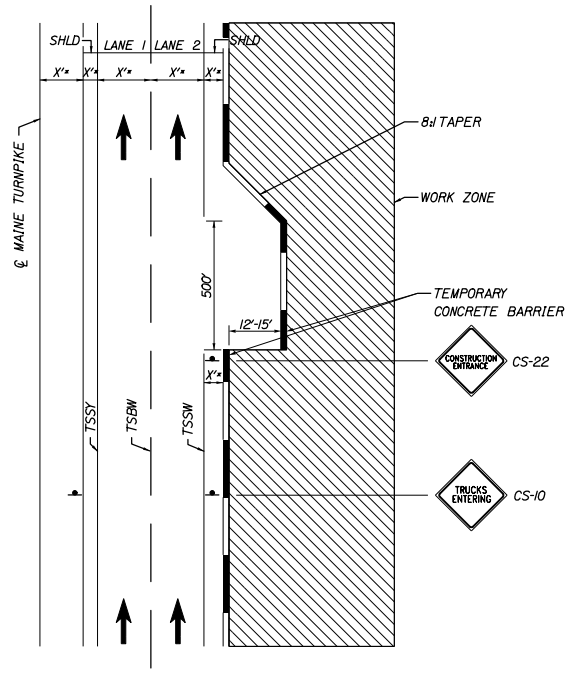
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
STANDARD DETAILS

SHEET NUMBER: MOT-06
CONTRACT: 2020.03
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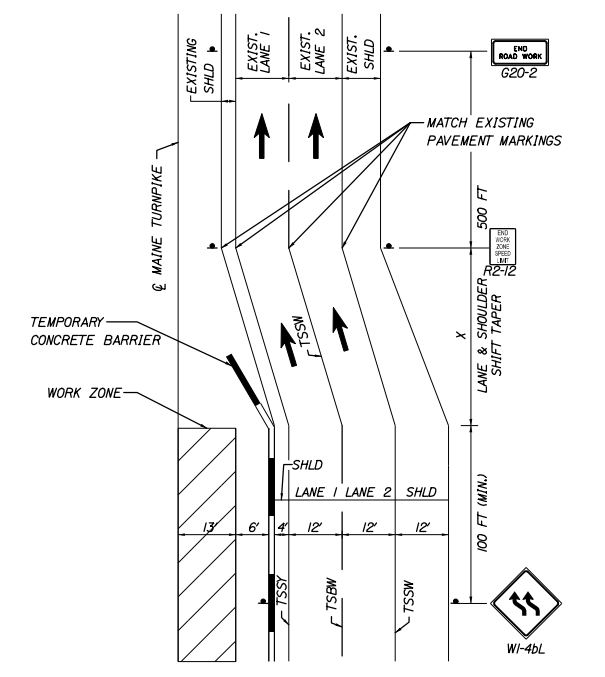
Date: 2/25/2020

Filename: PAW1_DETAILS_MOT-07



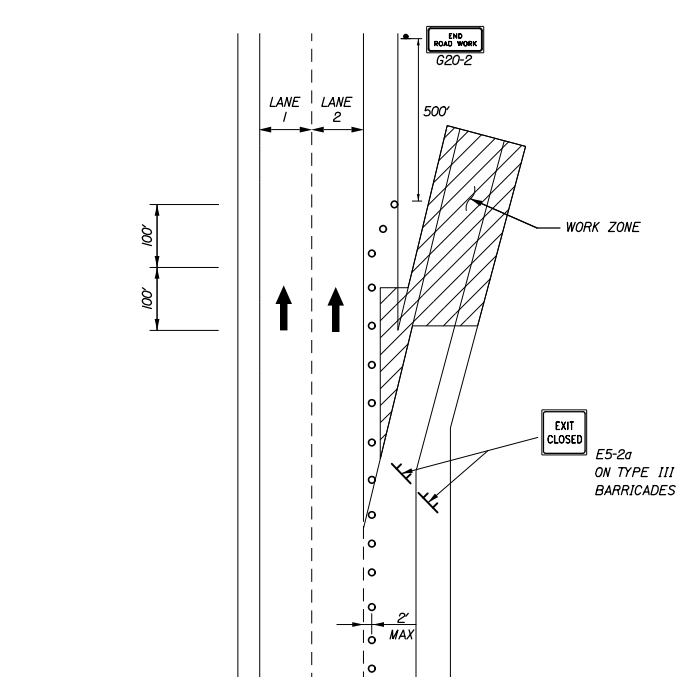
CONSTRUCTION ACCESS

- NOTES:
1. X* SEE PLANS FOR LANE AND SHOULDER WIDTHS.
 2. LOCATION OF THE CONSTRUCTION ACCESS SHALL BE DETERMINED ON SITE WITH APPROVAL FROM THE RESIDENT.

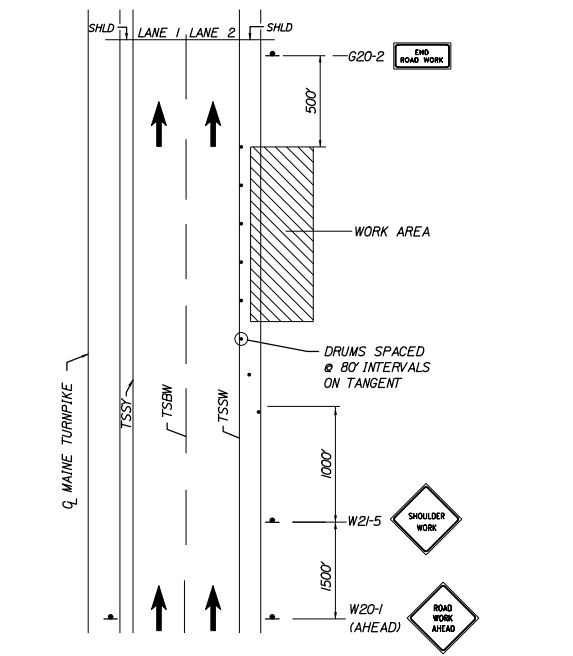


LANE & SHOULDER SHIFT TAPER

- NOTES:
1. WHERE X* = LANE SHIFTING TAPER, $L = 3/4 \times \text{POSTED SPEED} \times \text{WIDTH OF SHIFT}$ (FOR EXAMPLE FOR FULL LANE SHIFT TAPER, $L = 3/4 \times 50\text{MPH} \times 12\text{FT.} = 450\text{FT. MIN.}$)
 2. WHERE X* = SHOULDER TAPER, $L = 1/2 \times \text{POSTED SPEED} \times \text{WIDTH OF SHIFT}$ (FOR EXAMPLE FOR FULL SHOULDER SHIFT TAPER, $L = 1/2 \times 50\text{MPH} \times 4\text{FT.} = 67\text{FT. MIN.}$)

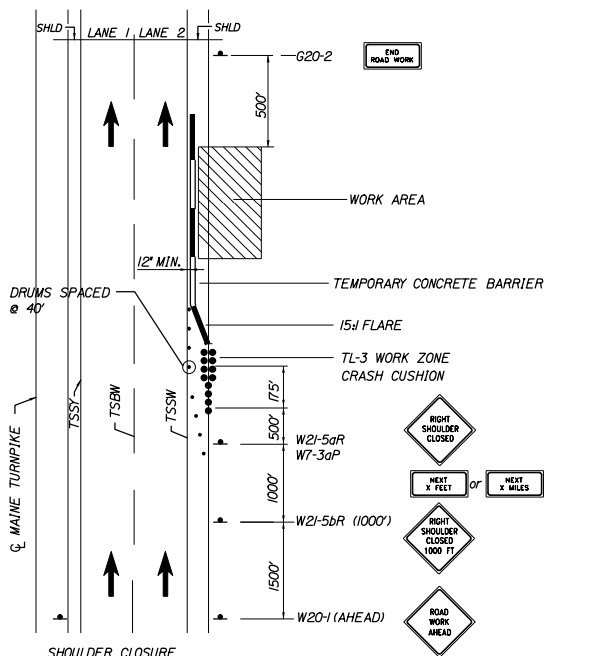


OFF RAMP CLOSURE



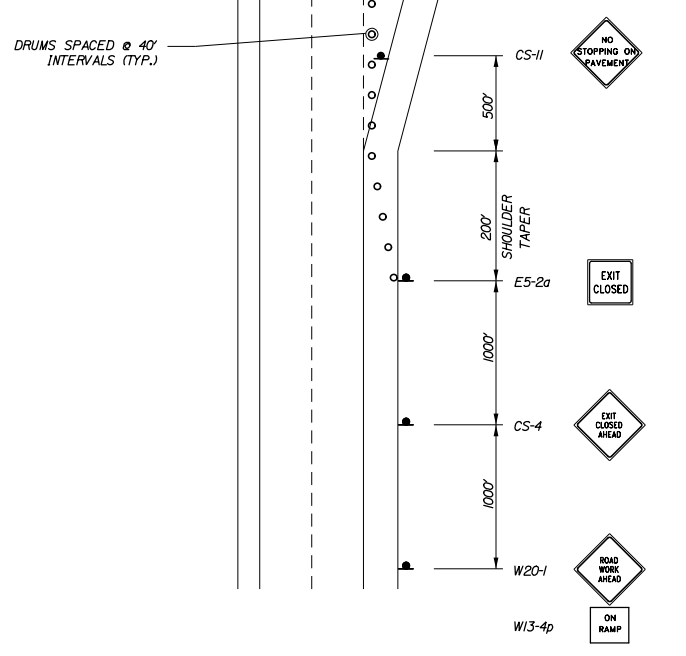
SHOULDER WORK (OF SHORT DURATION (MAINLINE))

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



SHOULDER CLOSURE

- NOTES:
1. THE W20-1 AND G20-2 SIGNS ARE NOT REQUIRED IF THE SHOULDER CLOSURE IS WITHIN A PREVIOUSLY ESTABLISHED WORK ZONE.
 2. MULTIPLE SHOULDER CLOSURES WITHIN THE SAME WORK ZONE MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY MTA.




STABILIZED CONSTRUCTION ENTRANCE

- NOTES:
1. SIGNS W20-1, W7-3aP & G20-2 ARE NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.
 2. SEE DETAIL SHEET MOT-07 FOR CONSTRUCTION ACCESS FROM WORK AREA PROTECTED BY TEMPORARY CONCRETE BARRIER.

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC STANDARD DETAILS

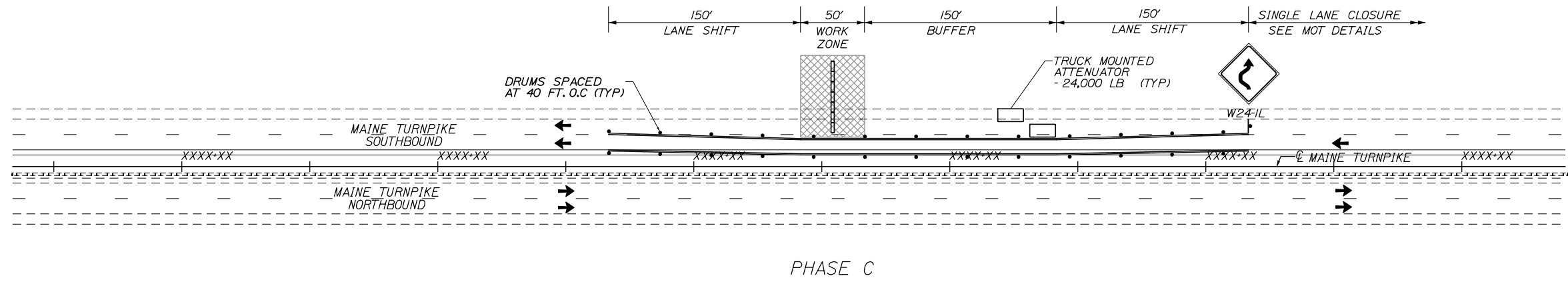
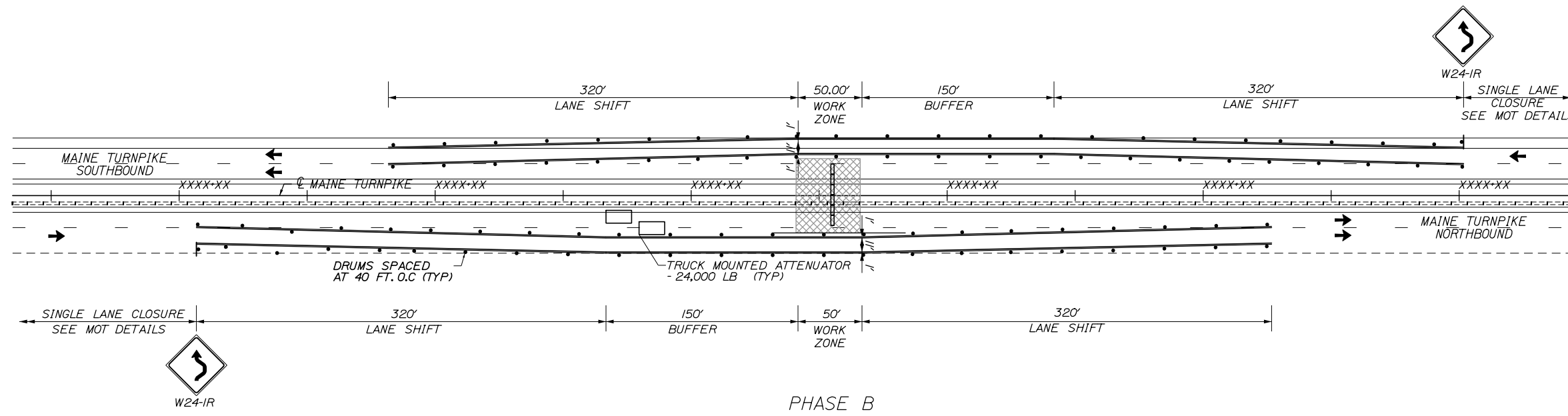
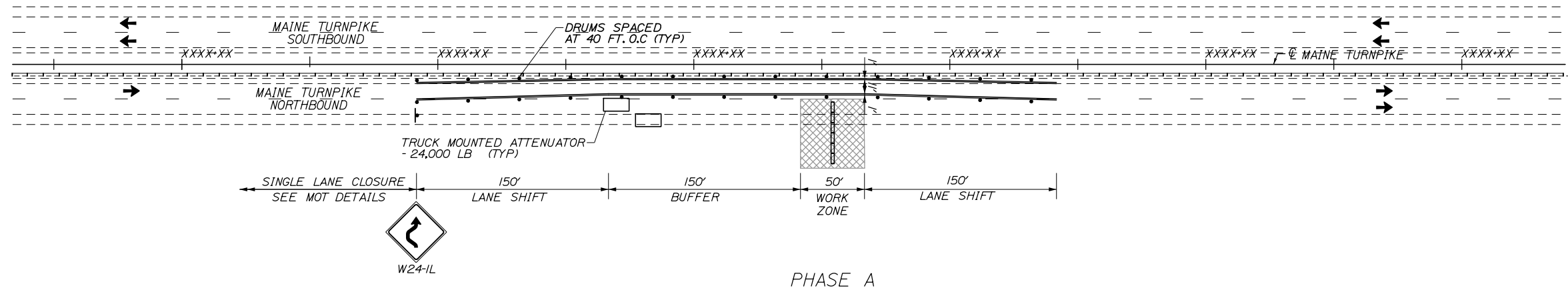
SHEET NUMBER: MOT-07
 15 OF 310

CONTRACT: 2020.03

Date: 2/25/2020

NOTES:

- LANE CLOSURES SHALL BE SIGNED FOR 45 MPH AND MAY ONLY OCCUR AT NIGHT AND LANES MUST BE REOPENED FOR THE NEXT DAY. SEE SPECIAL PROVISION 652.
- CROSS CULVERT INSTALLATION WILL TAKE MORE THAN ONE NIGHT. DURING THE FIRST NIGHT THE CULVERT SHALL BE INSTALLED AND TRENCH BACKFILLED AND PAVED WITH 4" OF HMA AS SHOWN ON THE TYPICAL SECTIONS. FINAL PAVING SHALL BE COMPLETED WITHIN 14 DAYS OF COMPLETION OF CULVERT INSTALLATION.
- FOR NIGHT LANE CLOSURES TEMPORARY STRIPING IS NOT REQUIRED.
- CROSS CULVERT INSTALLATION WORK NEEDS TO BE COMPLETED PRIOR TO THE WIDENING PAVING WORK OF PHASE 1A.
- THE LENGTH OF PIPE INSTALLATION PER PHASE SHALL BE ENOUGH SO THAT THE SUBSEQUENT PHASE WILL NOT NEED TO DISRUPT THE ADJACENT TRAFFIC.
- SHOULDER AND LANE WIDTHS INDICATED ON THIS SHEET ARE MINIMUM REQUIRED DIMENSIONS.
- DURING PHASE 2 THE EXISTING MEDIAN GUARDRAIL WILL NEED TO BE REMOVED AND REINSTALLED PRIOR TO ADVANCING TO PHASE 3. SHOULD PHASE 2 TAKE MORE THAN ONE NIGHT, TEMPORARY BARRIER WILL NEED TO BE PLACED OR THE EXISTING GUARDRAIL REINSTALLED.



Filename: PAW1_DETAILS_MOT-08

Scale: NOT TO SCALE

No.	Revision	By	Date

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Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

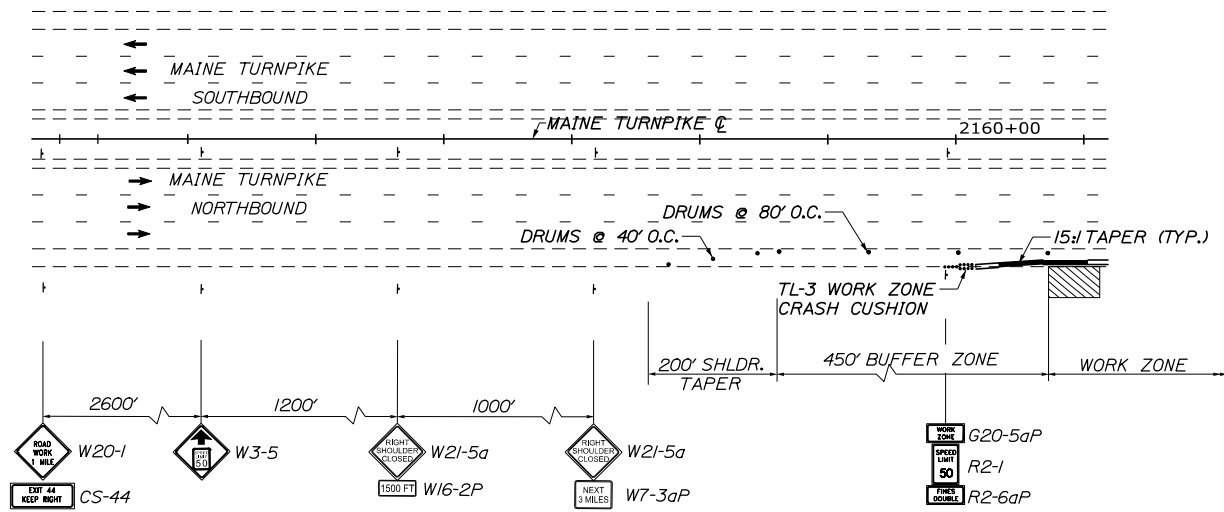
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

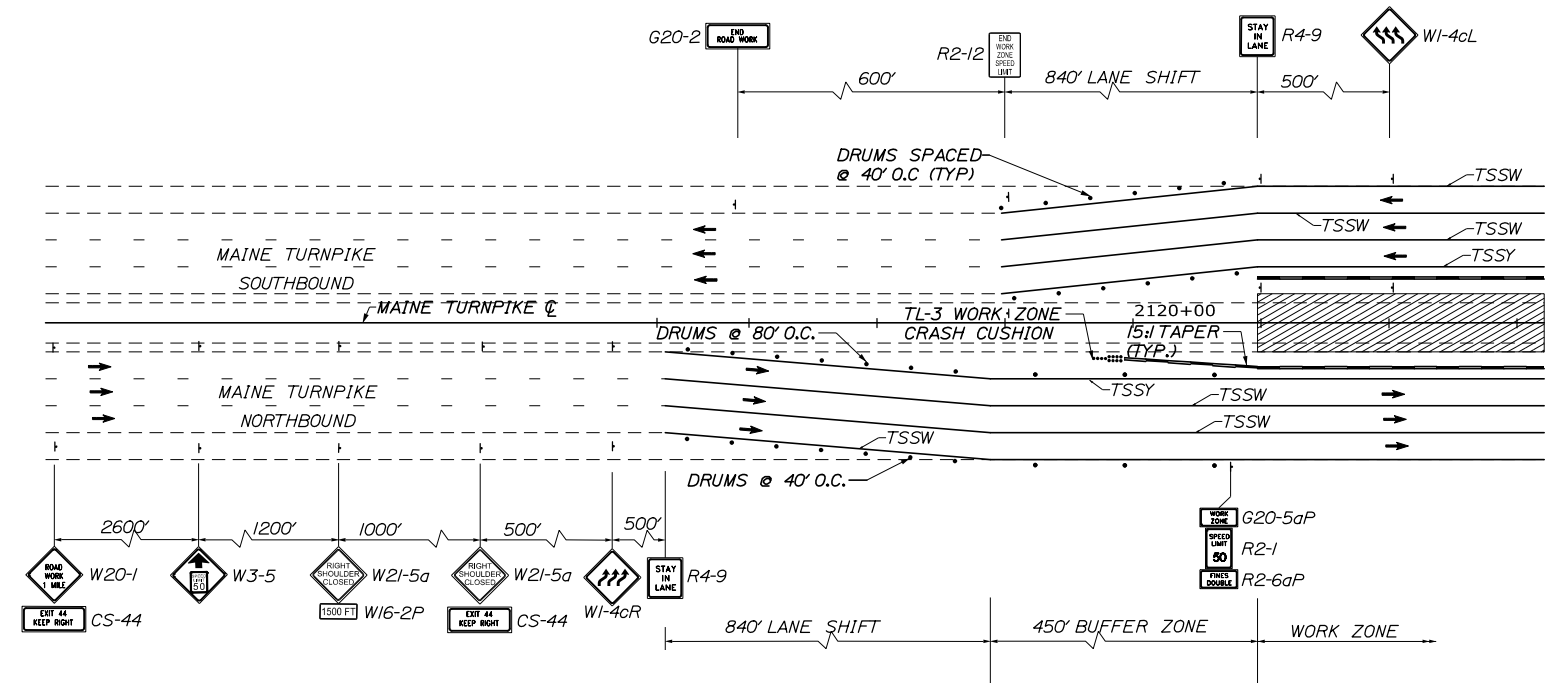
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 MAINLINE CROSS CULVERT

SHEET NUMBER: MOT-08
 CONTRACT: 2020.03
 16 OF 310

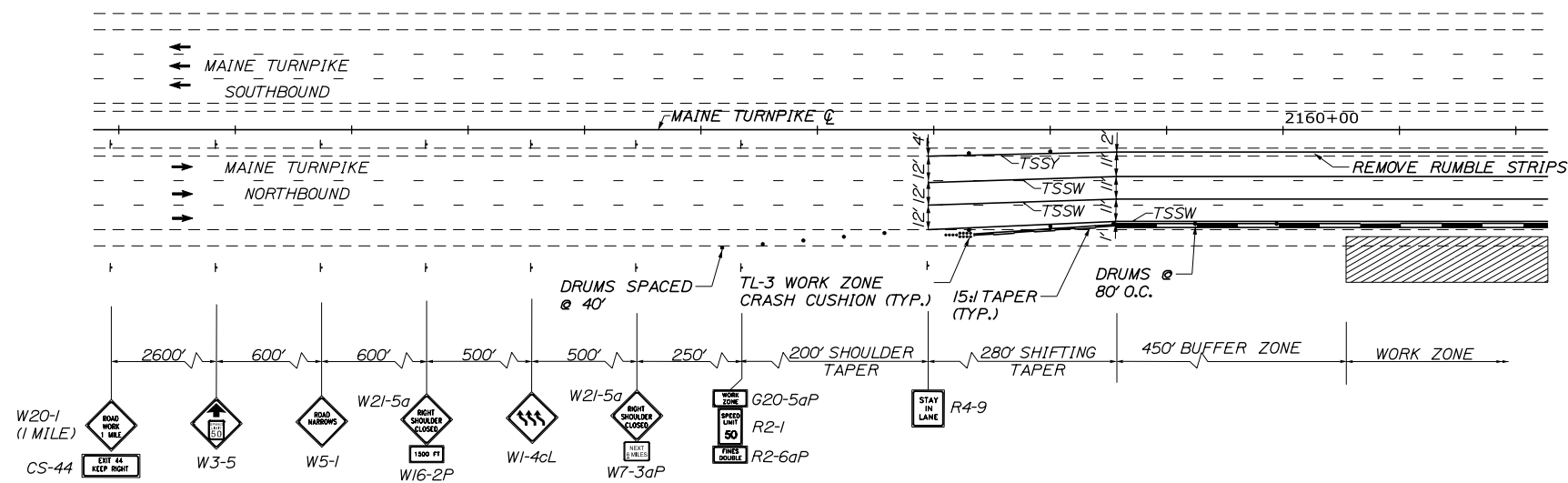
Date: 2/25/2020



PHASE 1A - NB BEGINNING OF PROJECT



PHASE 2 - NB BEGINNING OF PROJECT



PHASE 1B - NB BEGINNING OF PROJECT

NOTES:

- THE LANE LINES (TSSW) SHALL BE SOLID THROUGH THE LANE SHIFT AND FOR A MINIMUM OF 300 FEET BEFORE/AFTER EACH LANE SHIFT THAN SHALL TRANSITION TO BROKEN (TSBW) WHITE LANE LINES.

Filename: PAW1_DETAILS_MOT-09

Scale:			
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No.	Revision	By	Date


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HNTB

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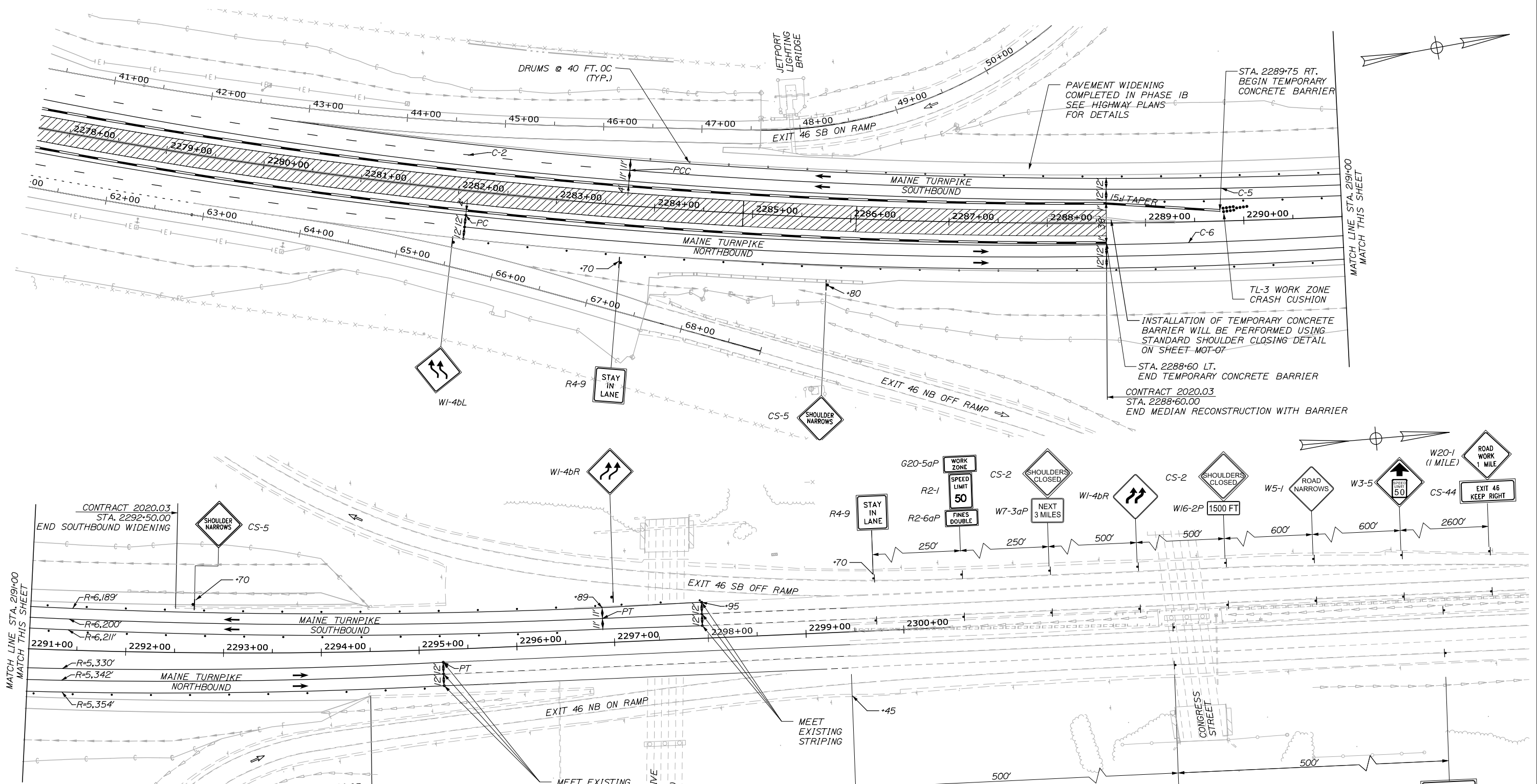
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 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 PHASE DETAILS

SHEET NUMBER: MOT-09
 17 OF 310

CONTRACT: 2020.03

Date: 2/25/2020

Filename: PAW1_DETAILS_MOT-10

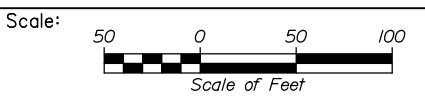


CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C-2	PCC 2272+34.50	51.21' LT	5,011'	PCC 2283+71.83	36.00' LT
C-5	PCC 2283+71.83	36.00' LT	6,200'	PT 2296+88.51	24.87' LT
C-6	PC 2282+10	25' RT	5,330'	PT 2295+25	13' RT

NOTES:

1. THIS DETAIL DEPICTS LANE TRANSITION FROM CONTRACT 2020.03 PHASE 2 TO CONTRACT 2020.04 PHASE 1A.
2. FOR LANE TRANSITION FROM CONTRACT 2020.03 PHASE 2 TO CONTRACT 2020.04 PHASE 1B, REFER TO SHEETS MOT-24 & MOT-25.
3. MODIFICATION OF MAINTENANCE OF TRAFFIC DEVICES MAY BE NECESSARY TO TRANSITION BETWEEN CONTRACTS 2020.03 & 2020.04 WHICH MUST BE COORDINATED WITH THE RESIDENTS.



Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
Designed	By	Date	Checked	By	Date
Drawn	LAD	2/20	TR	TR	2/20
	GW	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
 340 County Road, Suite 6-C
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 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

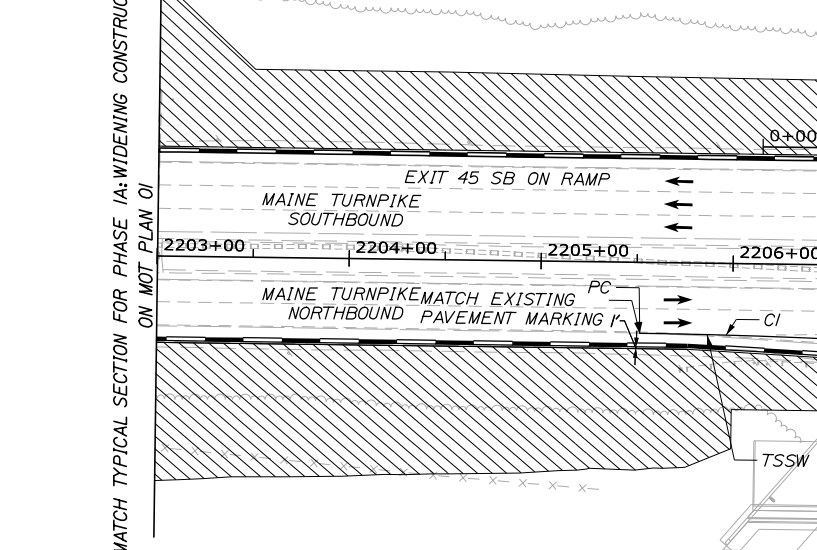
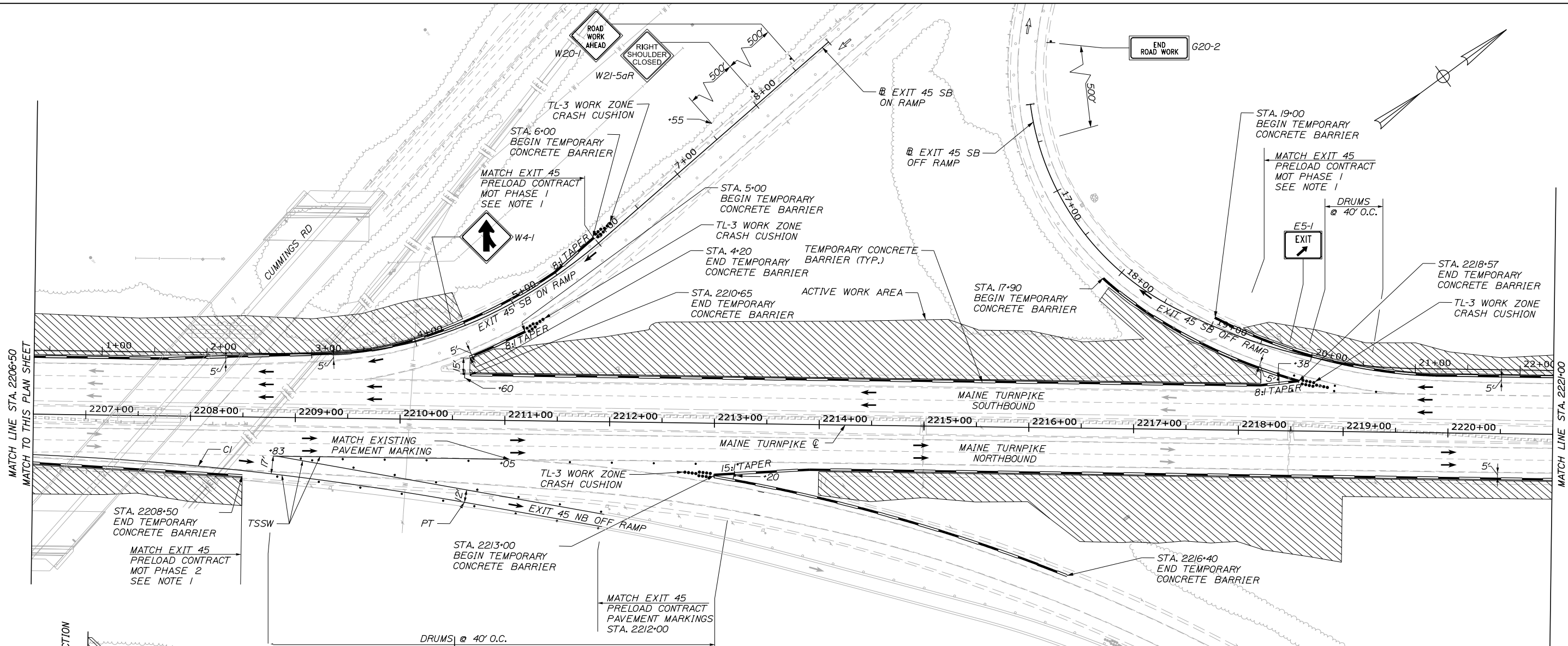
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 LANE MATCH DETAIL

CONTRACT: 2020.03

SHEET NUMBER: MOT-10
 18 OF 310

Date: 2/25/2020

Filename: PAW1_MOT_Phase_1A_MOT-11



PHASE 1A QUANTITIES

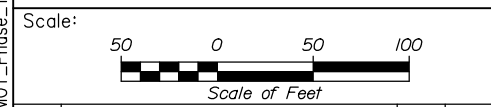
ITEM 526.301 TEMPORARY CONCRETE BARRIER, TYPE I	L.F.
STA. 2169+00 LT. TO STA. 2295+50 LT.	24,900
STA. 2156+10 RT. TO STA. 2294+70 RT.	
(SEE ESTIMATE AND QUANTITIES SHEET FOR FINAL LENGTH)	

ITEM 527.341 WORK ZONE CRASH CUSHION - TL-3	EA.
NB MAINLINE STA. 2187+50	1
NB MAINLINE STA. 2212+90	1
NB EXIT 45 ON RAMP STA. 33+60	1
NB EXIT 45 ON RAMP STA. 33+85	1
NB MAINLINE STA. 2280+90	1
NB EXIT 46 ON RAMP STA. 2292+45	1
SB EXIT 45 ON RAMP STA. 5+00	1
SB EXIT 45 ON RAMP STA. 6+15	1
SB MAINLINE STA. 2218+65	1
CROSBY MAINT. YARD DWY. STA. 2267+00	1
SB EXIT 46 ON RAMP STA. 49+35	1
SB MAINLINE STA. 2295+50	1
CONSTRUCTION ACCESS (ASSUME 4)	4
ITEM 652.3 FLASHING ARROW	EA.
SINGLE LANE CLOSURE (ASSUME 4)	4

CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
CI	PC 2205+51.73	37.00' RT	3,150'	PT 2210+62.49	78.66' RT

NOTES:
 1. CONTRACTOR SHALL COORDINATE MOT DEVICES WITH EXIT 45 CONTRACTS 2019.13 AND 2019.14.



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 Westbrook, ME 04092
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 FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

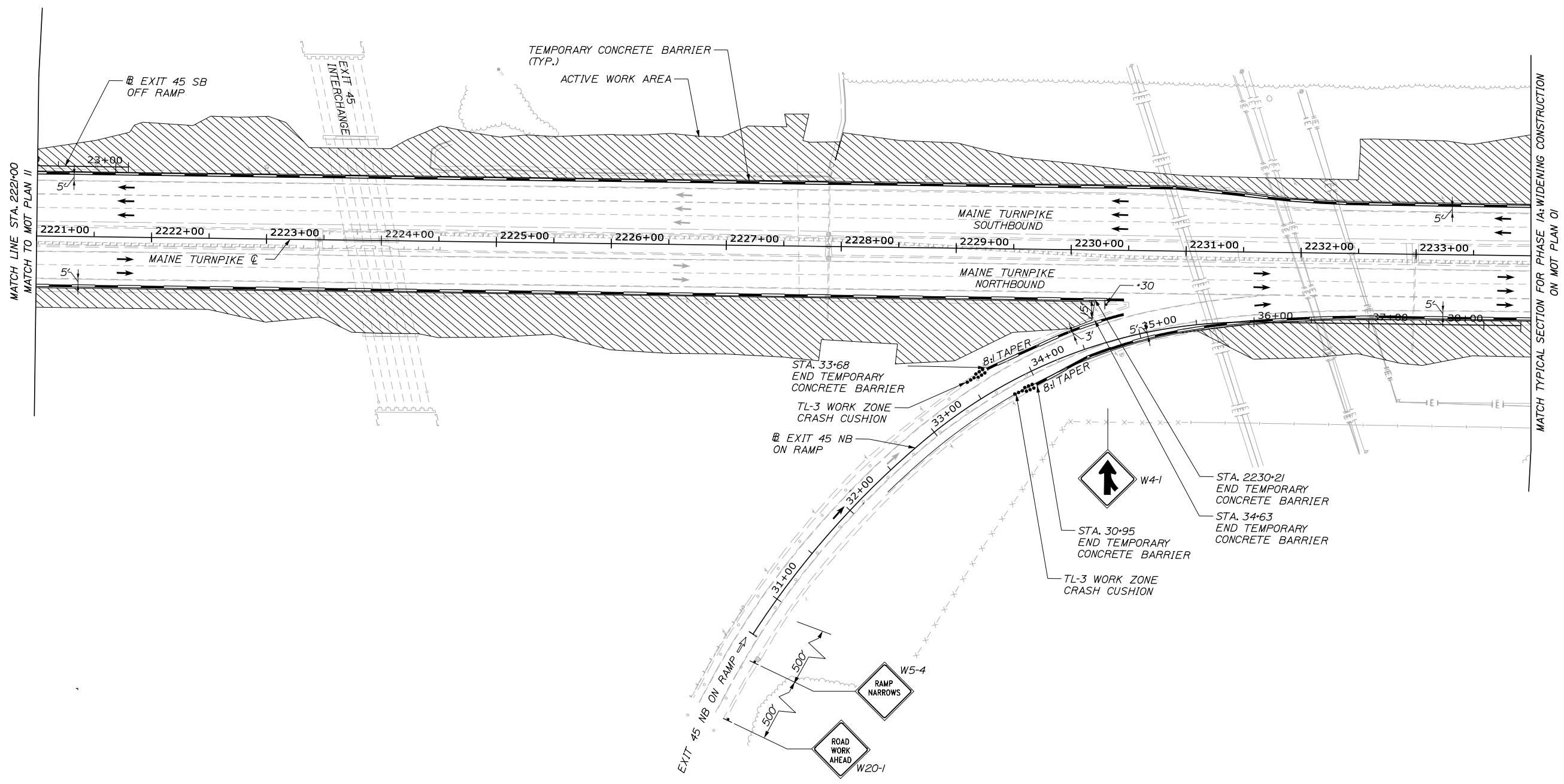
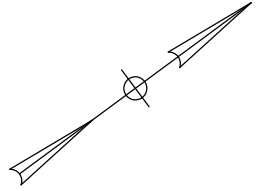
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 PHASE 1A

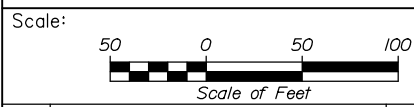
SHEET NUMBER: MOT-11
 19 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



Filename: PAW1_MOT_Phase_1A_MOT-12



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date	By	Date

	By	Date	Checked	By	Date
Designed	LAD	2/20	TRS		2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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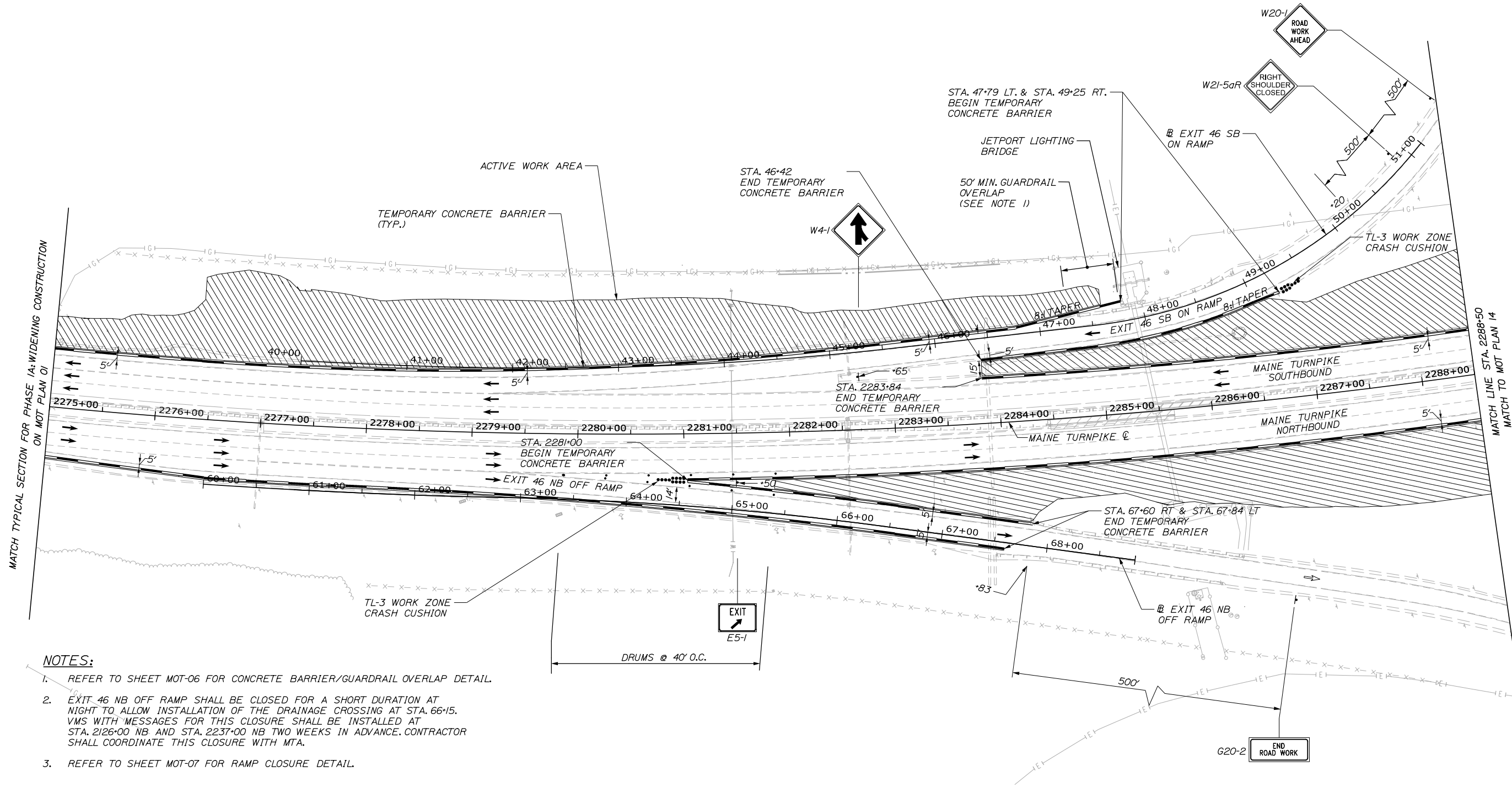
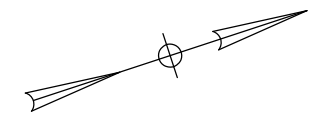
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 1A

SHEET NUMBER: MOT-12
CONTRACT: 2020.03
20 OF 310

Date: 2/25/2020



NOTES:

1. REFER TO SHEET MOT-06 FOR CONCRETE BARRIER/GUARDRAIL OVERLAP DETAIL.
2. EXIT 46 NB OFF RAMP SHALL BE CLOSED FOR A SHORT DURATION AT NIGHT TO ALLOW INSTALLATION OF THE DRAINAGE CROSSING AT STA. 66+15. VMS WITH MESSAGES FOR THIS CLOSURE SHALL BE INSTALLED AT STA. 2126+00 NB AND STA. 2237+00 NB TWO WEEKS IN ADVANCE. CONTRACTOR SHALL COORDINATE THIS CLOSURE WITH MTA.
3. REFER TO SHEET MOT-07 FOR RAMP CLOSURE DETAIL.

Filename: PAW1_MOT_Phase_1A_MOT-13

Scale:			
<p>Scale of Feet</p>			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	LAD	2/20	Checked TRS 2/20
Drawn	GW	2/20	In Charge of RAL 2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

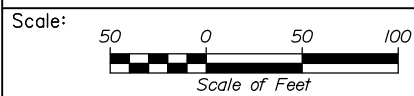
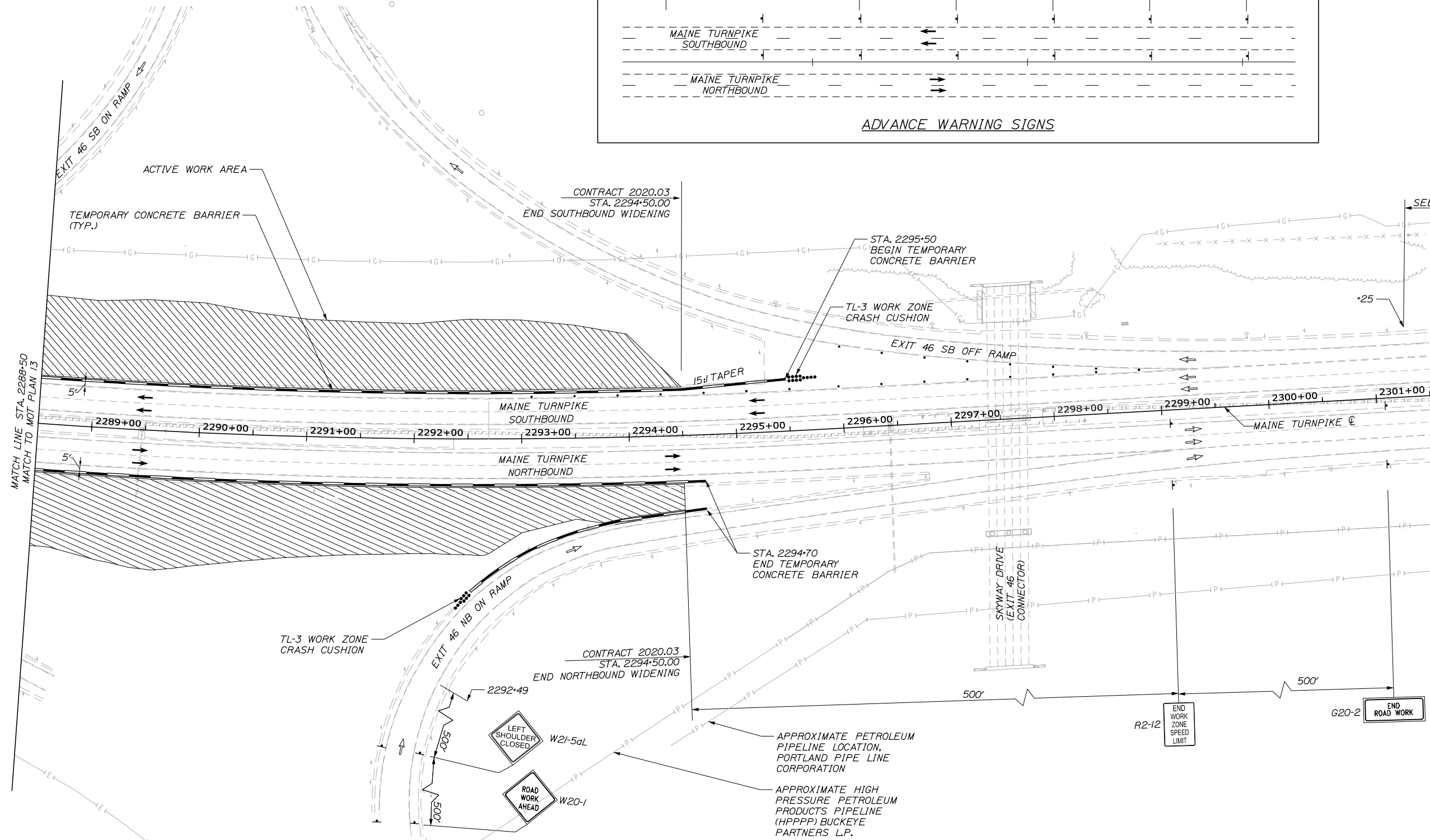
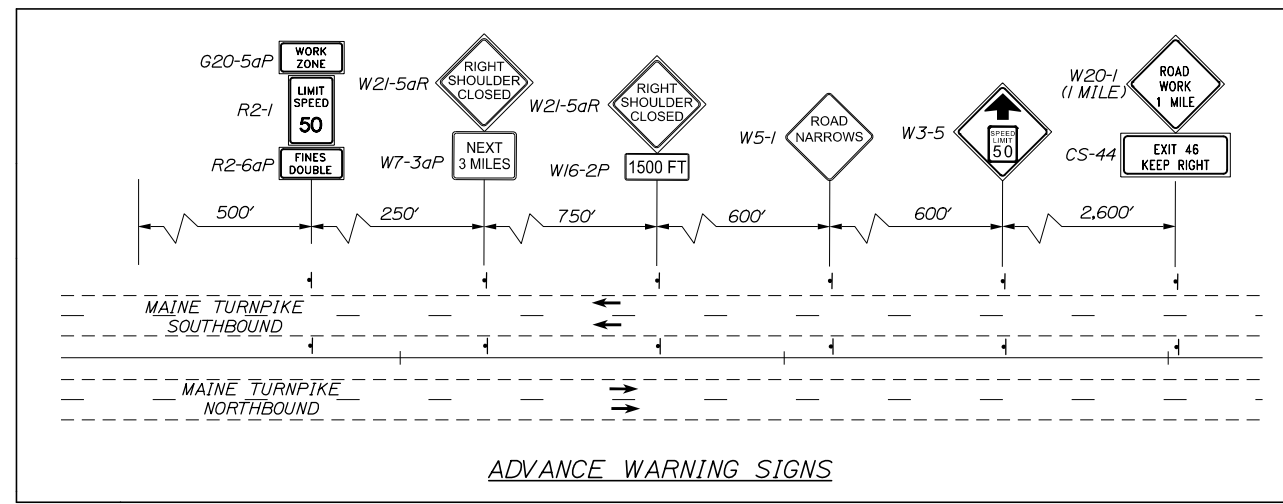
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 1A

CONTRACT: 2020.03

SHEET NUMBER: MOT-13
21 OF 310

Date: 2/25/2020

Filename: PAW1_MOT_Phase_1A_MOT-14



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 Westbrook, ME 04092
 TEL (207) 774-5155
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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 1A

SHEET NUMBER: MOT-14
22 OF 310

CONTRACT: 2020.03

PHASE 1B QUANTITIES

ITEM 526.301 TEMPORARY CONCRETE BARRIER, TYPE 1 L.F. 29,670
 STA. 2169+00 LT. TO STA. 2295+50 LT.
 STA. 2155+90 RT. TO STA. 2294+70 RT.
 (SEE ESTIMATE AND QUANTITIES SHEET FOR FINAL LENGTH)

ITEM 527.341 WORK ZONE CRASH CUSHION - TL-3 EA. 16
 NB MAINLINE STA. 2187+35 /
 NB MAINLINE STA. 2212+77 /
 NB EXIT 45 ON RAMP STA. 33+40 /
 NB EXIT 45 ON RAMP STA. 33+60 /
 NB MAINLINE STA. 2281+36 /
 SB EXIT 45 ON RAMP STA. 5+10 /
 SB EXIT 45 ON RAMP STA. 5+15 /
 SB MAINLINE STA. 2218+80 /
 CROSBY MAINT. YARD DWY. STA. 2267+00 /
 SB EXIT 46 ON RAMP STA. 48+10 /
 SB EXIT 46 ON RAMP STA. 49+70 /
 SB MAINLINE STA. 2295+50 /
 CONSTRUCTION ACCESS (ASSUME 4) 4

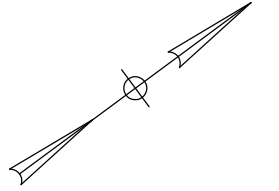
PHASE 1B QUANTITIES

ITEM 627.770 REMOVE EXISTING PAVEMENT MARKERS L.F. 56,530
 STA 2154+45 TO STA. 2279+17
 (N.B. 25,761 L.F.) (S.B. 30,769 L.F.)

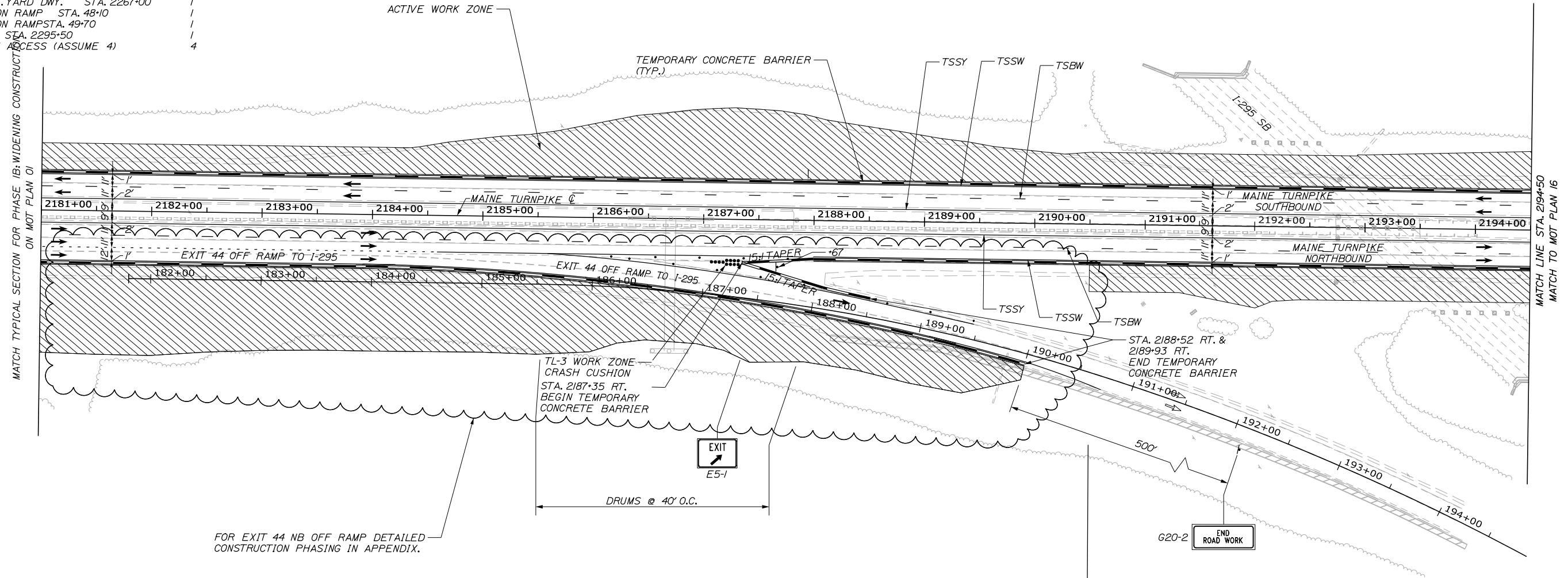
ITEM 627.780 TEMPORARY PAVEMENT MARKING LINE, YELLOW OR WHITE L.F.
 STA 2156+50 TO STA 2294+50 (TEMPORARY SOLID WHITE) 31,046
 (N.B. 15,807 L.F.) (S.B. 15,239 L.F.)
 STA 2156+50 TO STA 2294+50 (TEMPORARY BROKEN WHITE) 5,368
 (N.B. 2,708 L.F.) (S.B. 2,660 L.F.)
 STA 2156+50 TO STA 2294+50 (TEMPORARY DASHED WHITE) 1,342
 (N.B. 606 L.F.) (S.B. 736 L.F.)
 STA 2156+50 TO STA 2294+50 (TEMPORARY SOLID YELLOW) 22,984
 (N.B. 12,144 L.F.) (S.B. 10,840 L.F.)

PHASE 1B QUANTITIES

ITEM 652.3 FLASHING ARROW EA. 4
 SINGLE LANE CLOSURE (ASSUME 4)



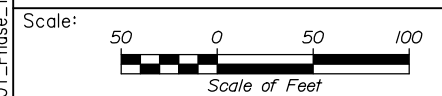
Date: 2/25/2020



NOTES:

- EXIT 44 NB OFF RAMP REQUIRES TWO STAGES OF CONSTRUCTION BOTH STAGES WILL OCCUR DURING PHASE 1B AND WILL BE COMPLETED PRIOR TO THE START OF PHASE 2. SEE THE PLANS IN THE APPENDIX FOR MORE DETAIL.

Filename: PAW1_MOT_Phase_1B_MOT-15



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 TEL (207) 774-5155
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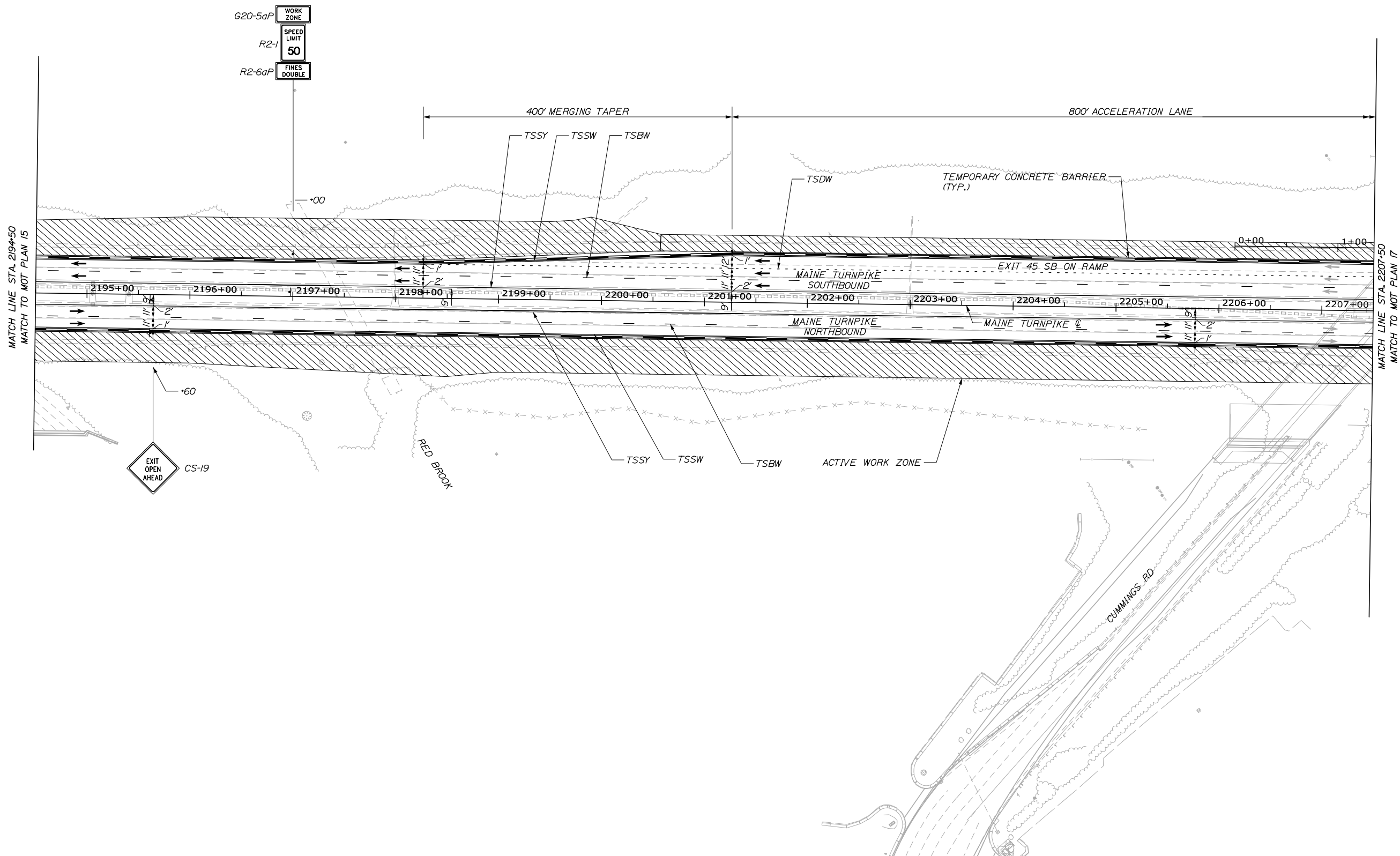
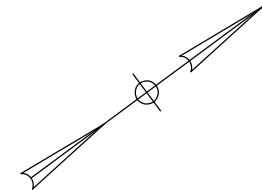
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

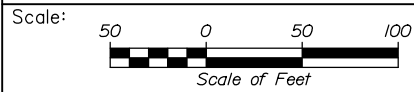
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 1B

SHEET NUMBER: MOT-15
CONTRACT: 2020.03
23 OF 310

Date: 2/25/2020



Filename: PAW1_MOT_Phase_1B_MOT-16



Designed by:



HNTB CORPORATION
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FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	LAD	2/20	TRS	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

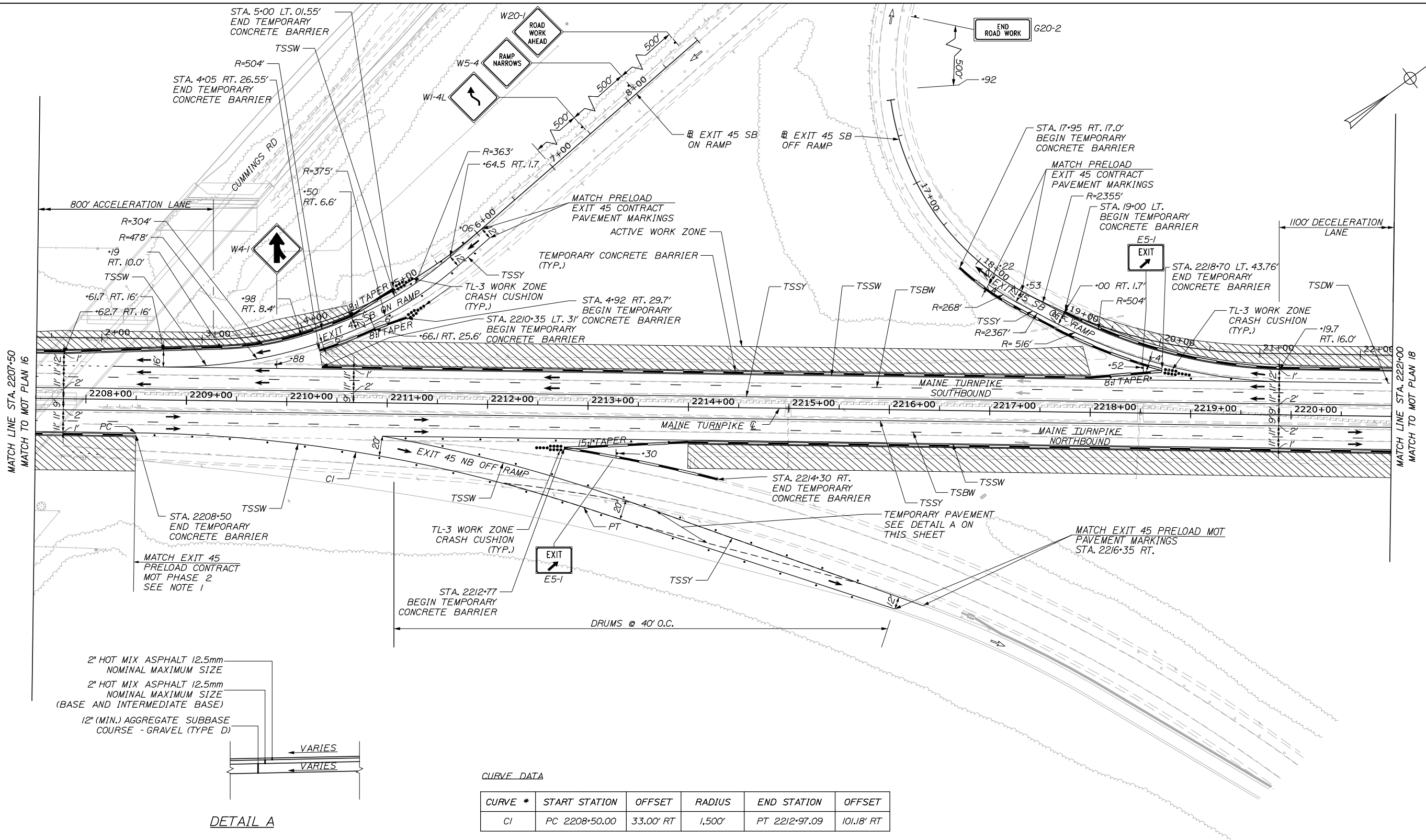
CONTRACT: 2020.03

SHEET NUMBER: MOT-16

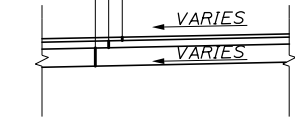
24 OF 310

Date: 2/25/2020

Filename: PAW1_MOT_Phase_1B_MOT-17



2" HOT MIX ASPHALT 12.5mm
NOMINAL MAXIMUM SIZE
2" HOT MIX ASPHALT 12.5mm
NOMINAL MAXIMUM SIZE
(BASE AND INTERMEDIATE BASE)
12" (MIN.) AGGREGATE SUBBASE
COURSE - GRAVEL (TYPE D)



DETAIL A

CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
CI	PC 2208+50.00	33.00' RT	1,500'	PT 2212+97.09	101.18' RT

NOTES:

- CONTRACTOR SHALL COORDINATE MOT DEVICES WITH EXIT 45 CONTRACT 2019.13.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date
Designed	LAD	2/20	Checked	TRS 2/20
Drawn	GW	2/20	In Charge of	RAL 2/20

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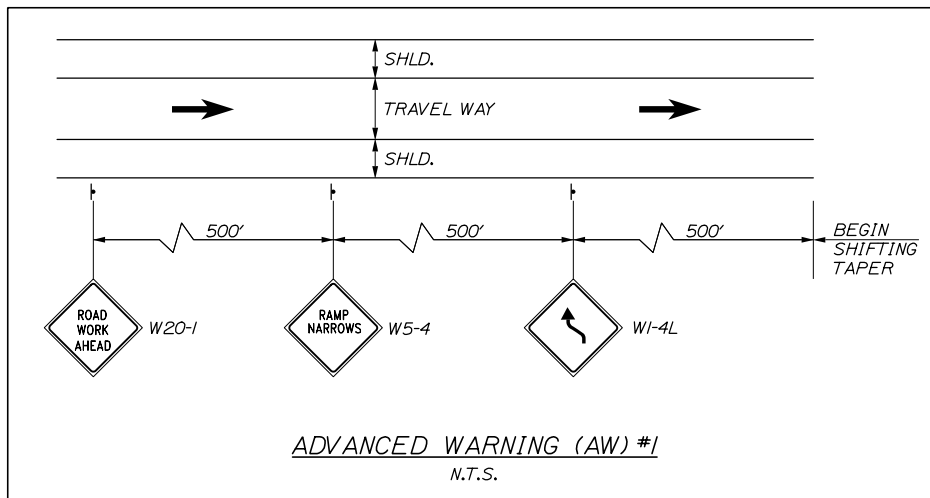
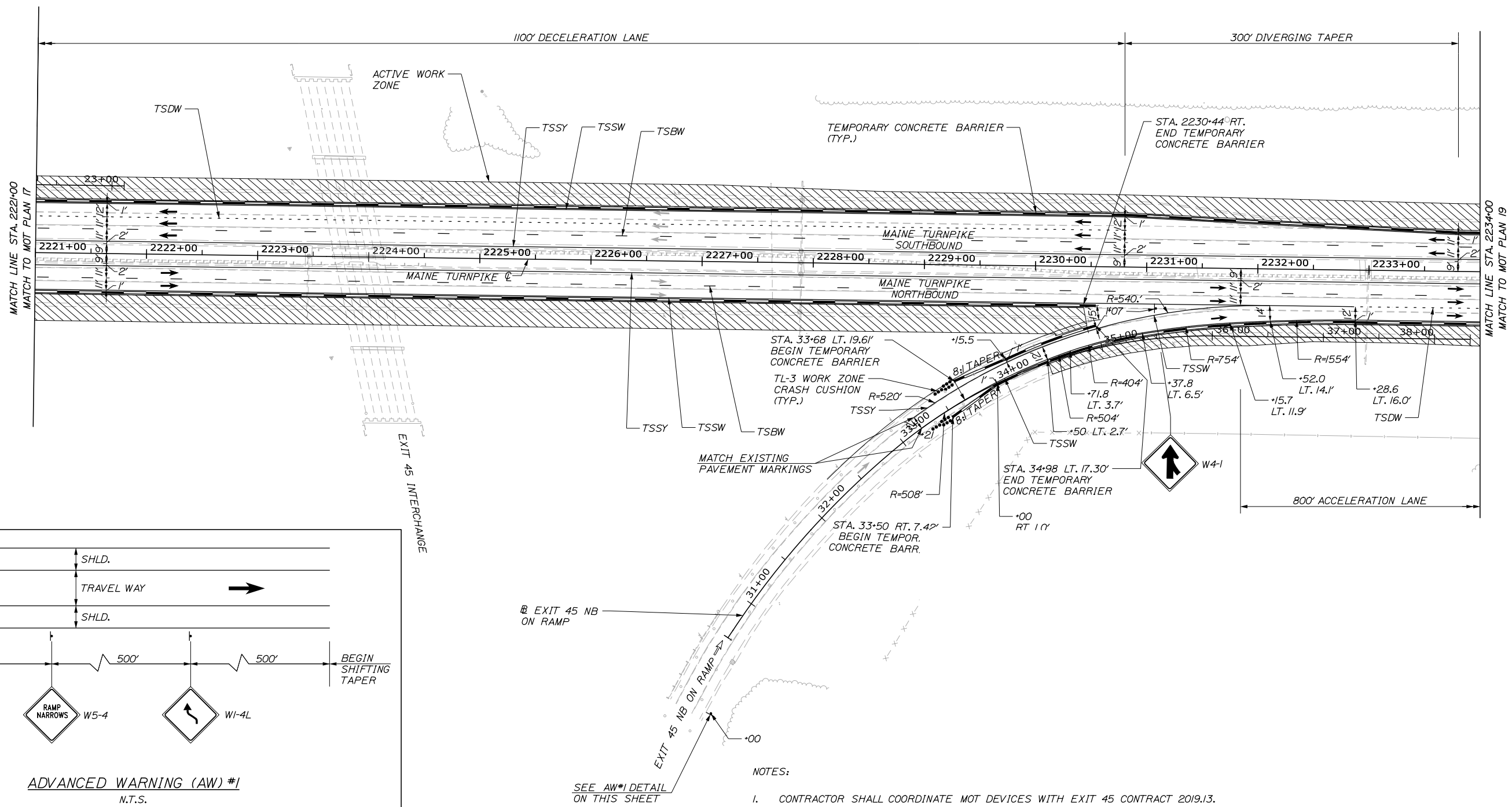
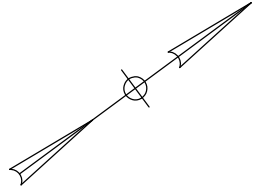
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 1B

CONTRACT: 2020.03

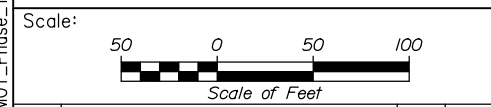
SHEET NUMBER: MOT-17
25 OF 310

Date: 2/25/2020



NOTES:
 1. CONTRACTOR SHALL COORDINATE MOT DEVICES WITH EXIT 45 CONTRACT 2019.13.

Filename: PAW1_MOT_Phase_1B_MOT-18



Designed by:


HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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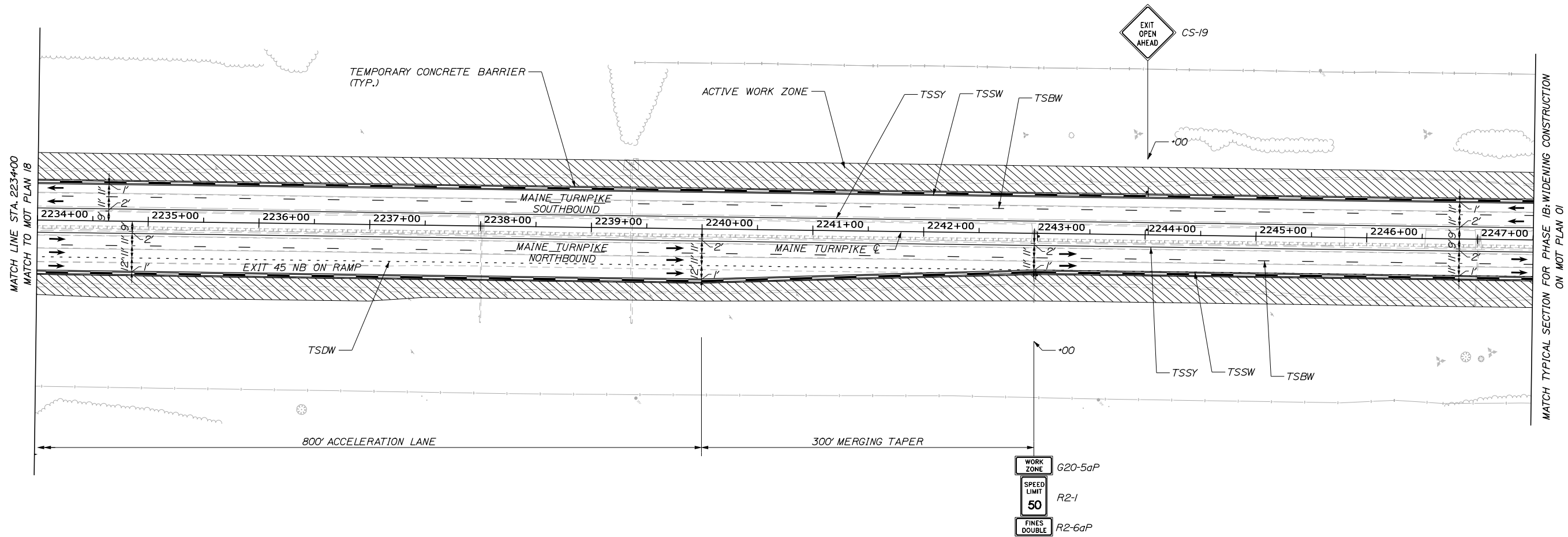
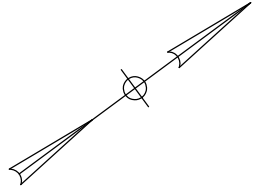
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

**PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS**
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 PHASE 1B

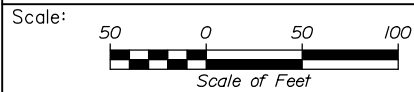
SHEET NUMBER: MOT-18
 26 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



Filename: PAW1_MOT_Phase_1B_MOT-19



Designed by:



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date		By	Date
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

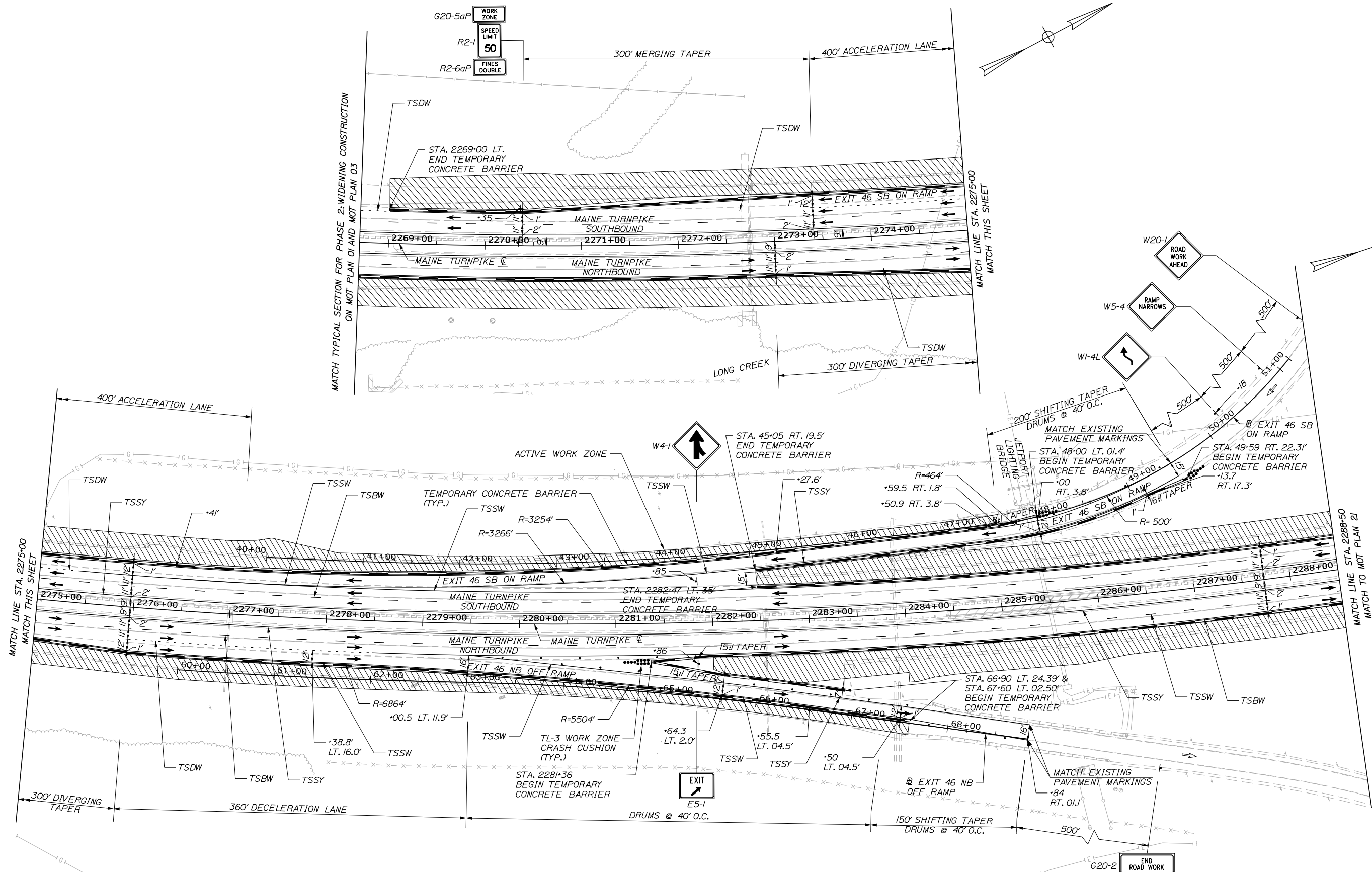
CONTRACT: 2020.03

SHEET NUMBER: MOT-19

27 OF 310

Date: 2/25/2020

Filename: PAW1_MOT_Phase_1B_MOT-20



MATCH TYPICAL SECTION FOR PHASE 2: WIDENING CONSTRUCTION ON MOT PLAN 01 AND MOT PLAN 03

MATCH LINE STA. 2275+00 MATCH THIS SHEET

MATCH LINE STA. 2275+00 MATCH THIS SHEET

MATCH LINE STA. 2288+50 MATCH TO MOT PLAN 21



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

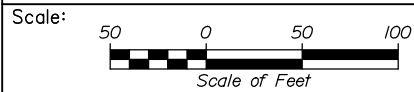
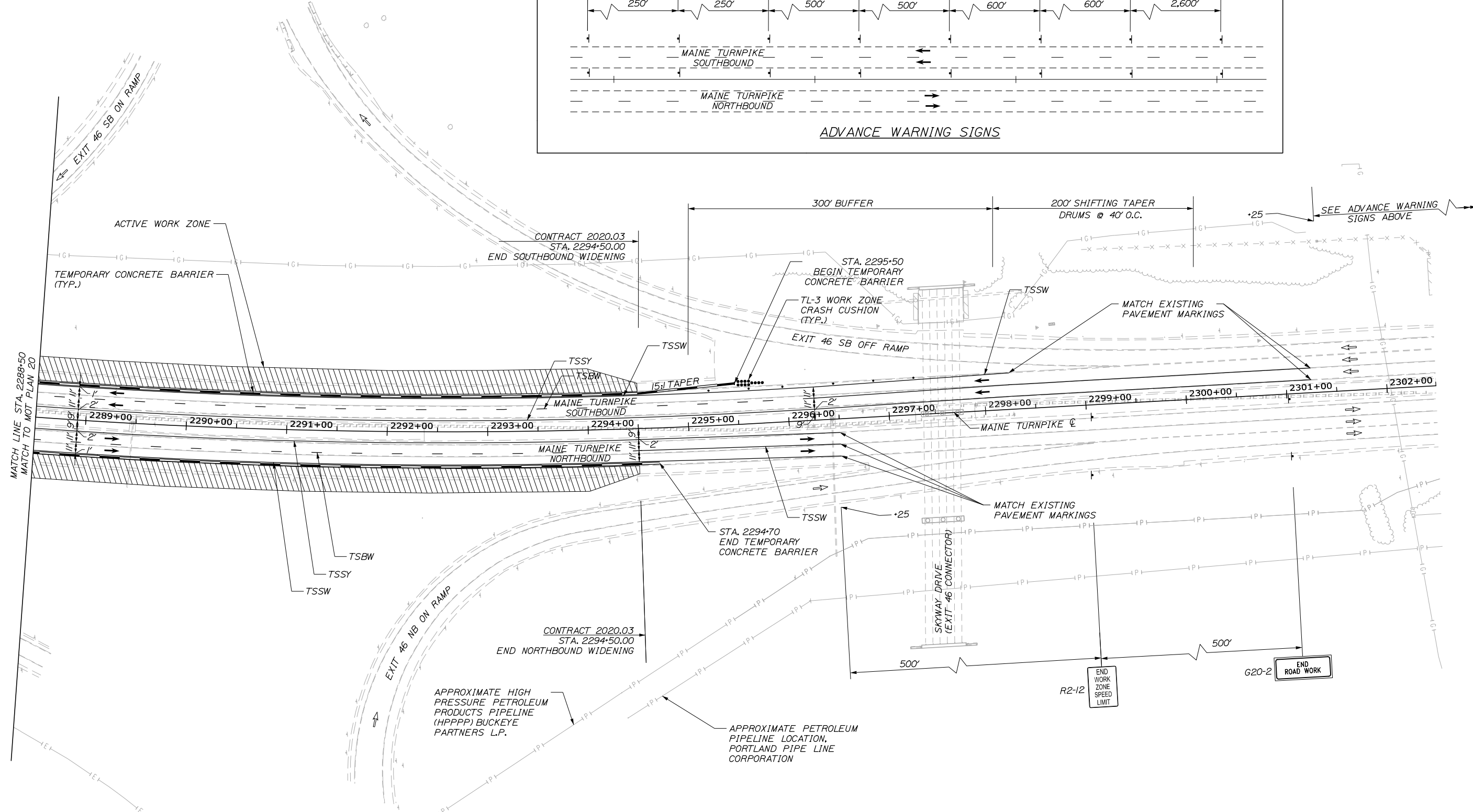
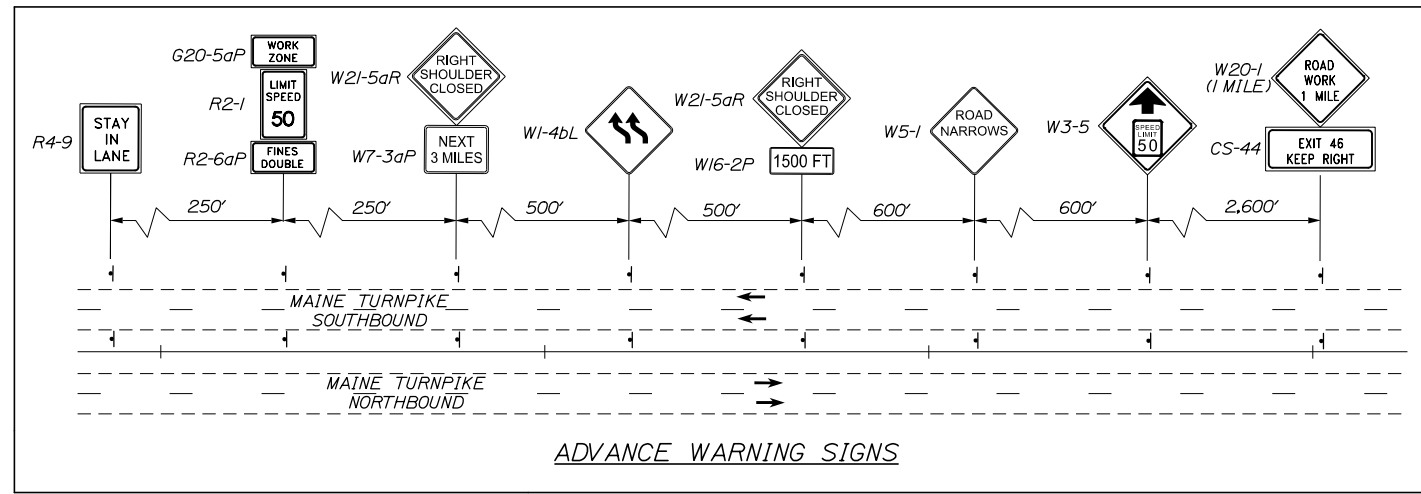
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 PHASE 1B

SHEET NUMBER: MOT-20
 28 OF 310

CONTRACT: 2020.03

Date: 2/25/2020

Filename: PAW1_MOT_Phase_1B_MOT-21



Designed by:



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340 County Road, Suite 6-C
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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 1B

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: MOT-21

29 OF 310

PHASE 2 QUANTITIES

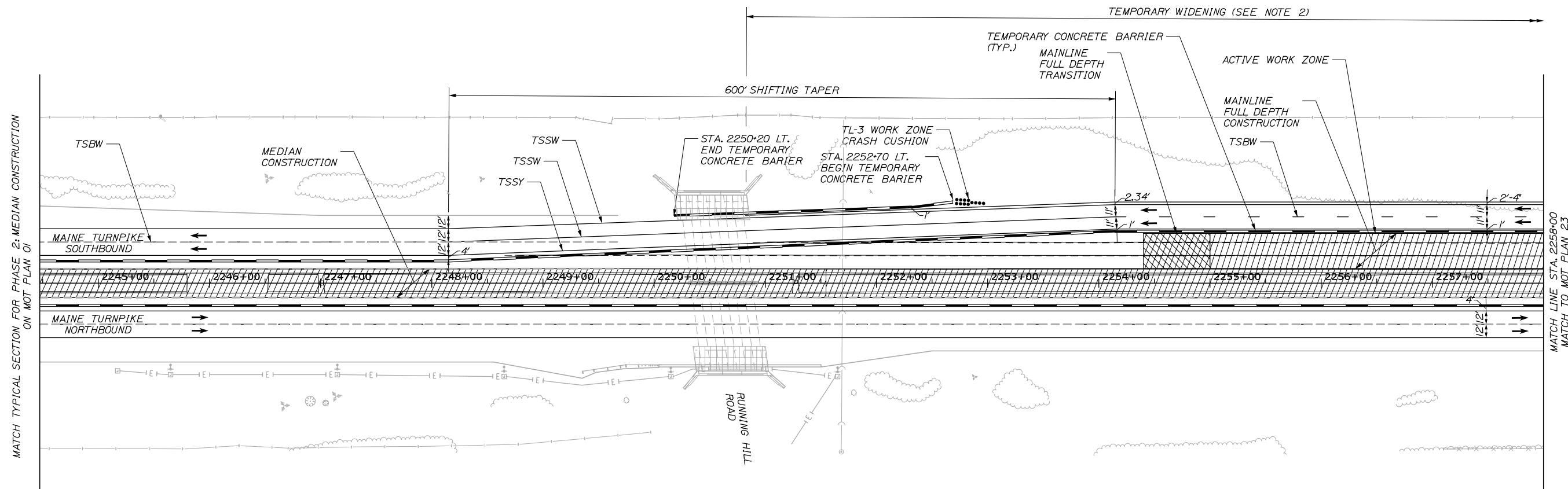
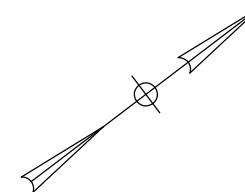
ITEM 203.20 COMMON EXCAVATION	C.Y.
SB STA. 2249+60 - STA. 2268+30 - 1,000 CY	1,000
ITEM 526.30 TEMPORARY CONCRETE BARRIER, TYPE I	L.F.
STA. 2120+50 LT. TO STA. 2289+75 LT. STA. 2120+30 RT. TO STA. 2288+60 RT. (SEE ESTIMATE AND QUANTITIES SHEET FOR FINAL LENGTH)	34,040
ITEM 627.770 REMOVE EXISTING PAVEMENT MARKINGS	L.F.
STA. 2156+45 TO STA. 2296+50 (N.B. 38,443) (S.B. 33,767)	72,210

PHASE 2 QUANTITIES

ITEM 527.34 WORK ZONE CRASH CUSHION - TL-3	EA.
NB MAINLINE STA. 2124+25	1
SB MAINLINE STA. 2252+90	1
SB MAINLINE STA. 2289+75	1
CONSTRUCTION ACCESS (ASSUME 4)	4
ITEM 403.207 HOT MIX ASPHALT, 19.0 MM NOMINAL MAXIMUM SIZE	TON
SB STA. 2249+60 - 2268+00	280 TON
SB STA. 2268+30 - 2269+50	10 TON
ITEM 403.208 HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE	TON
SB STA. 2249+60 - 2268+00	165 TON
SB STA. 2268+30 - 2269+50	5 TON

PHASE 2 QUANTITIES

ITEM 627.780 TEMPORARY PAVEMENT MARKING LINE, YELLOW OR WHITE	L.F.
STA 2156+45 TO STA 2296+50 (TEMPORARY SOLID WHITE) (N.B. 26,654 L.F.) (S.B. 17,361 L.F.)	44,015
STA 2156+45 TO STA 2296+50 (TEMPORARY BROKEN WHITE) (N.B. 5,591 L.F.) (S.B. 3,709 L.F.)	9300
STA 2156+45 TO STA 2296+50 (TEMPORARY DASHED WHITE) (N.B. 846 L.F.) (S.B. 825 L.F.)	1671
STA 2156+45 TO STA 2296+50 (TEMPORARY SOLID YELLOW) (N.B. 22,365 L.F.) (S.B. 14,835 L.F.)	34,320

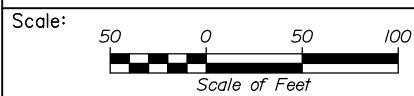


NOTES:

- SEE MOT-06 SHOULDER CLOSURE DETAIL FOR REMOVAL OF TEMPORARY WIDENING.
- FOR TYPICAL SECTIONS FOR TEMPORARY WIDENING, SEE SHEET MOT-03.

Date: 2/25/2020

Filename: PAW1_MOT_Phase_2_MOT-22



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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

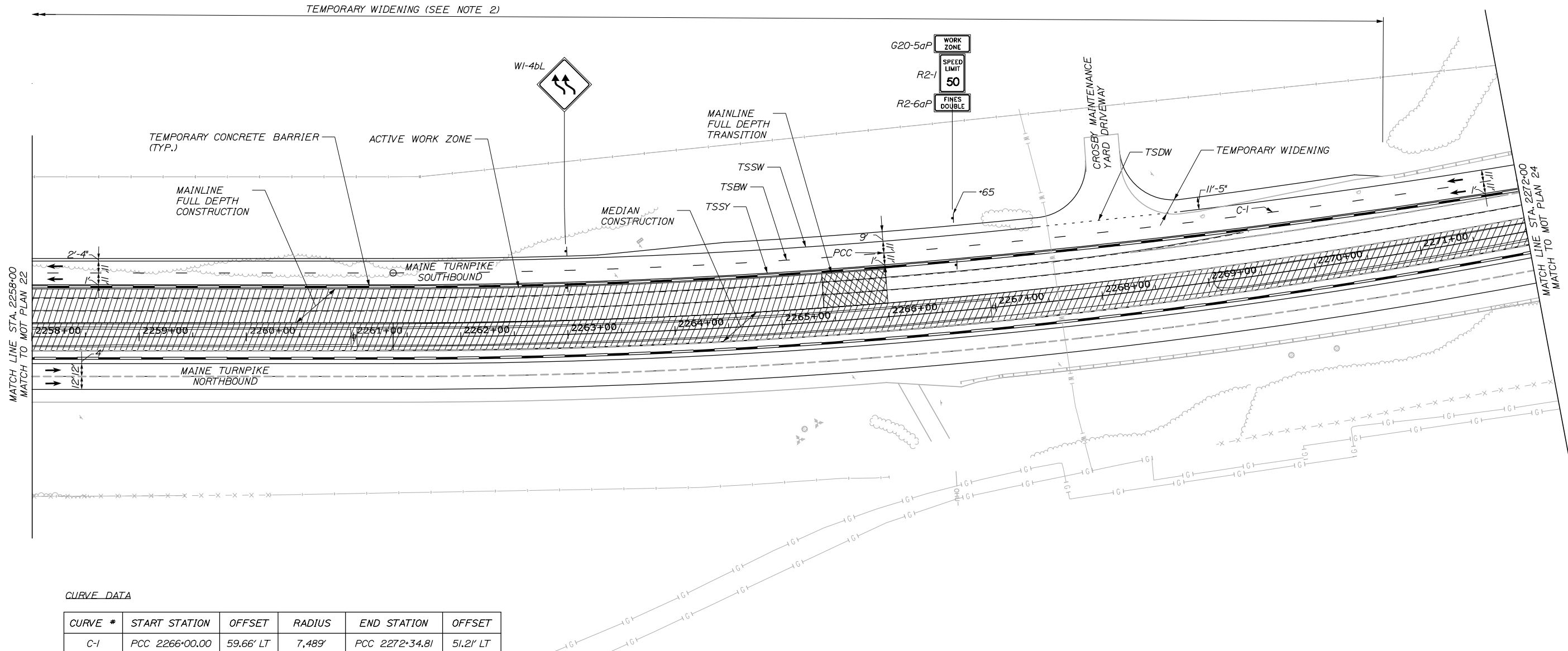
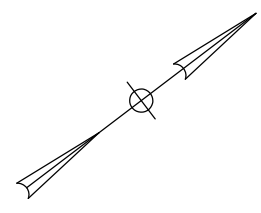
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 2

CONTRACT: 2020.03

SHEET NUMBER: MOT-22
30 OF 310

Date: 2/25/2020

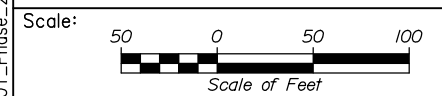


CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C-1	PCC 2266+00.00	59.66' LT	7,489'	PCC 2272+34.81	51.21' LT

NOTES:

- SEE MOT-06 SHOULDER CLOSURE DETAIL FOR REMOVAL OF TEMPORARY WIDENING.
- FOR TYPICAL SECTIONS FOR TEMPORARY WIDENING, SEE SHEET MOT-03.



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 PHASE 2

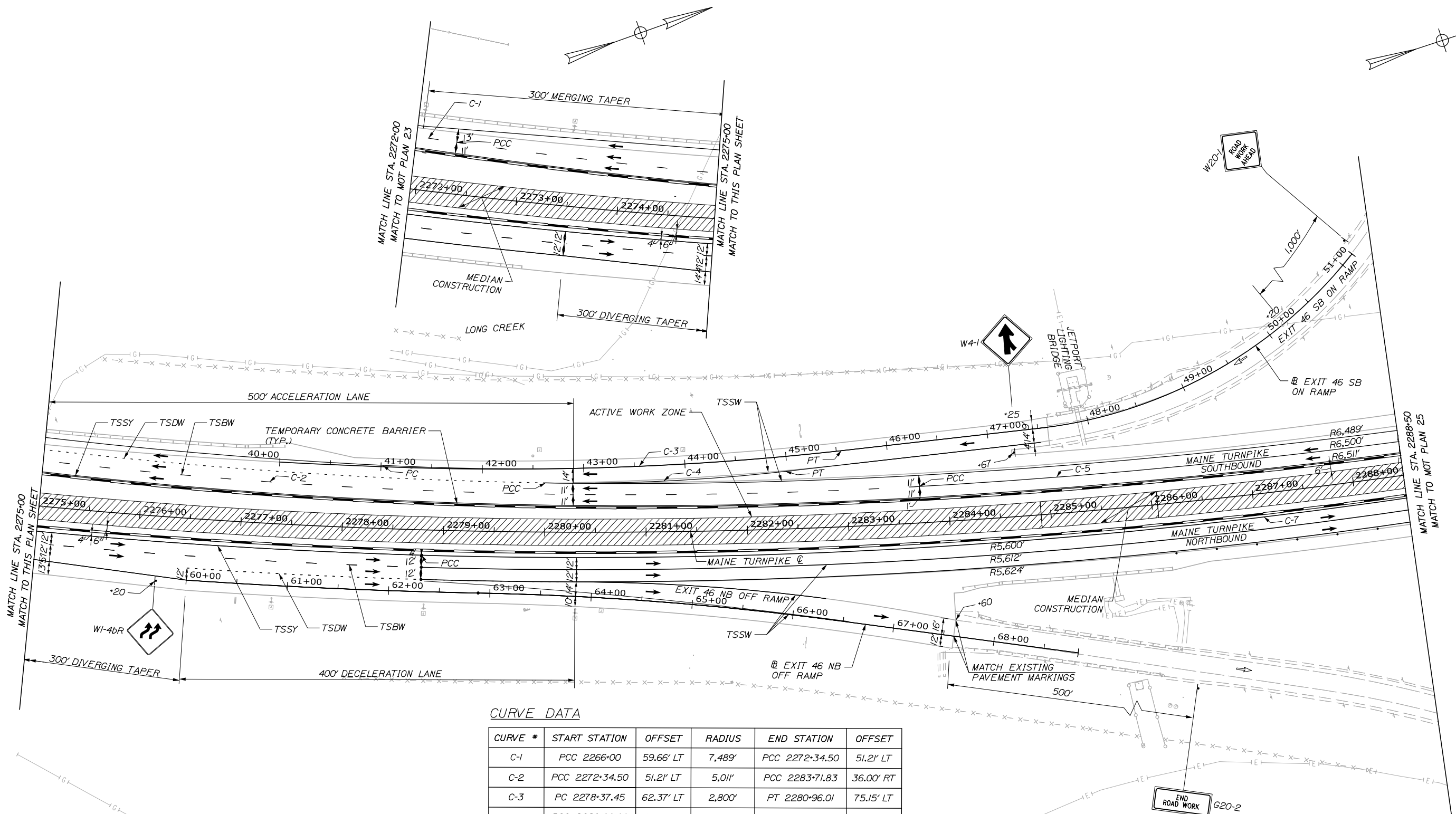
SHEET NUMBER: MOT-23
 31 OF 310

CONTRACT: 2020.03

Filename: PAW1_MOT_Phase_2_MOT-23

Date: 2/25/2020

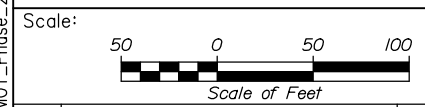
Filename: PAW1_MOT_Phase_2_MOT-24



CURVE DATA

CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C-1	PCC 2266+00	59.66' LT	7,489'	PCC 2272+34.50	51.21' LT
C-2	PCC 2272+34.50	51.21' LT	5,011'	PCC 2283+71.83	36.00' RT
C-3	PC 2278+37.45	62.37' LT	2,800'	PT 2280+96.01	75.15' LT
C-4	PCC 2280+00.00	48.63' LT	1,830'	PT 2282+39.37	56.95' LT
C-5	PCC 2283+71.83	36' LT	6,500'	PCC 2291+81.03	28.97' LT
C-7	PCC 2278+79.05	25' RT	5,600'	PRC 2297+20.20	15.05' RT

- NOTES:**
- THIS PLAN DEPICTS LANE TRANSITION FROM CONTRACT 2020.03 PHASE 2 TO CONTRACT 2020.04 PHASE 1B.
 - FOR LANE TRANSITION FROM CONTRACT 2020.03 PHASE 2 TO CONTRACT 2020.04 PHASE 1A, REFER TO DETAIL SHEET MOT-10.



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

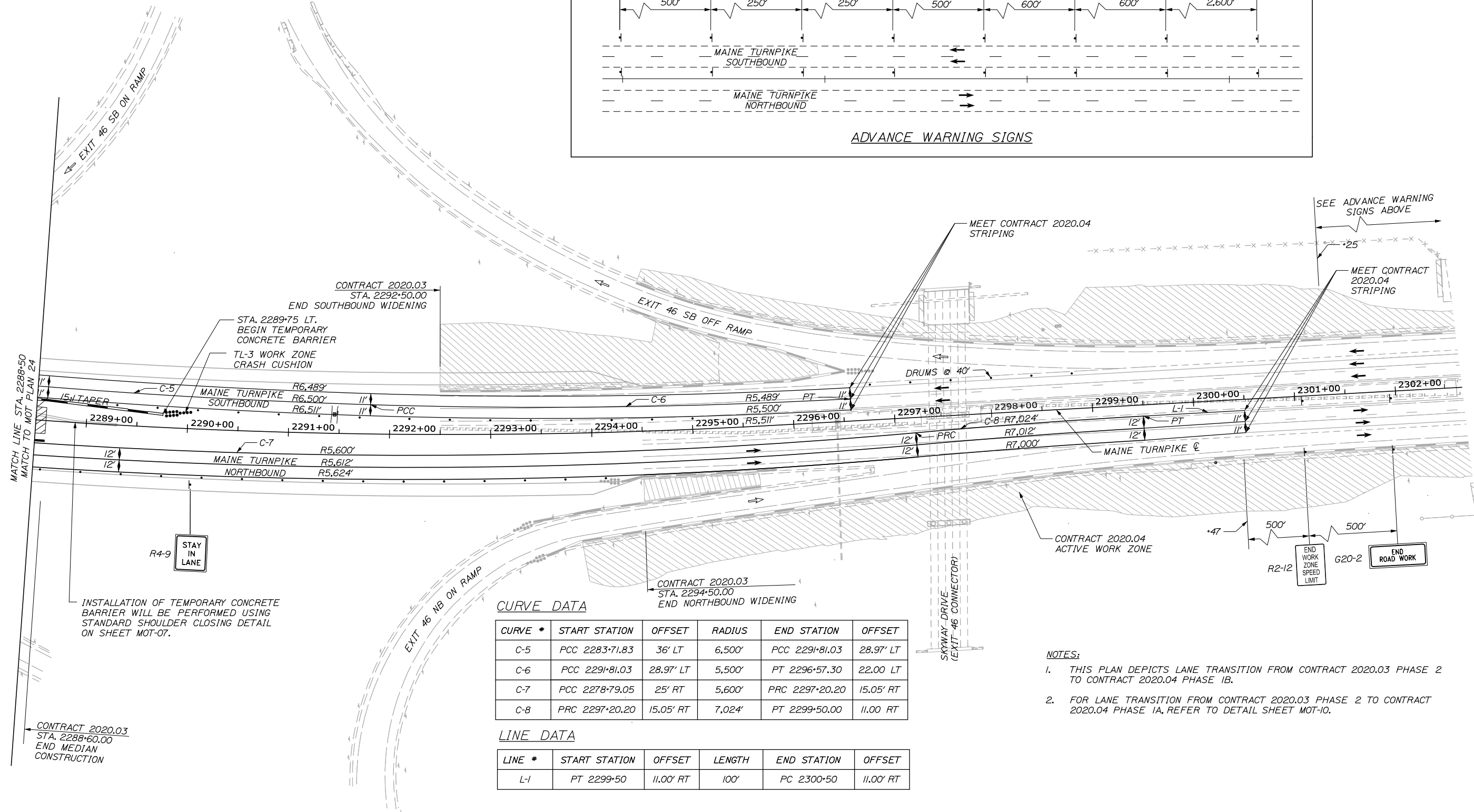
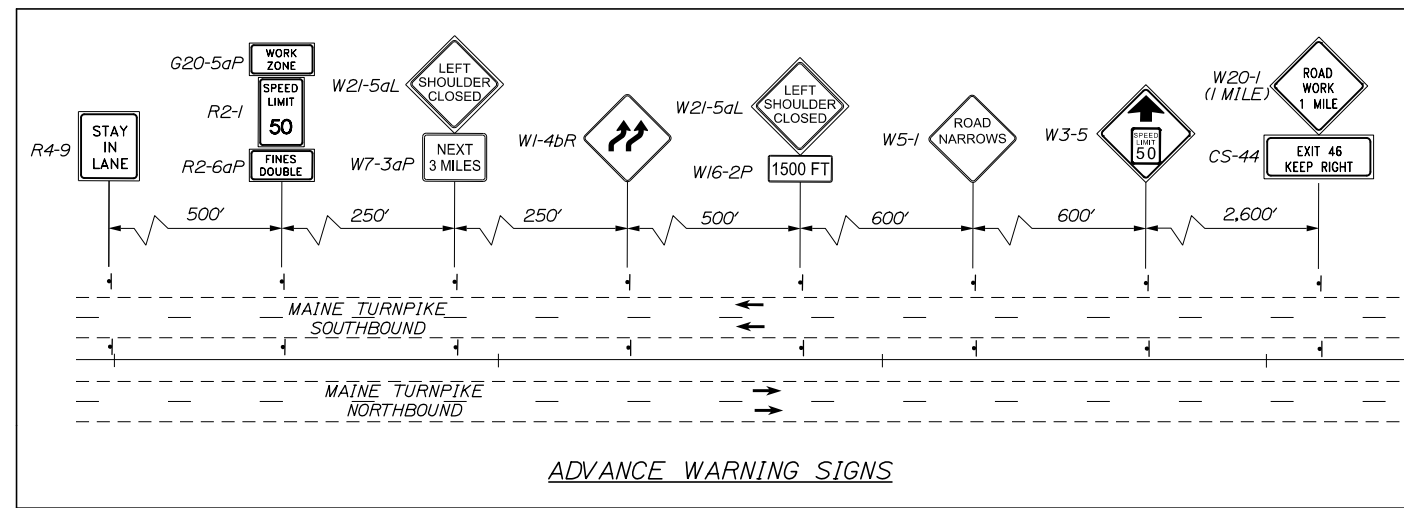
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
PHASE 2

SHEET NUMBER: MOT-24
CONTRACT: 2020.03
32 OF 310

Date: 2/25/2020

Filename: PAW1_MOT_Phase_2_MOT-25



CURVE DATA

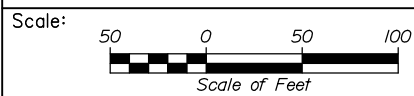
CURVE #	START STATION	OFFSET	RADIUS	END STATION	OFFSET
C-5	PCC 2283+71.83	36' LT	6,500'	PCC 2291+81.03	28.97' LT
C-6	PCC 2291+81.03	28.97' LT	5,500'	PT 2296+57.30	22.00' LT
C-7	PCC 2278+79.05	25' RT	5,600'	PRC 2297+20.20	15.05' RT
C-8	PRC 2297+20.20	15.05' RT	7,024'	PT 2299+50.00	11.00' RT

LINE DATA

LINE #	START STATION	OFFSET	LENGTH	END STATION	OFFSET
L-1	PT 2299+50	11.00' RT	100'	PC 2300+50	11.00' RT

NOTES:

- THIS PLAN DEPICTS LANE TRANSITION FROM CONTRACT 2020.03 PHASE 2 TO CONTRACT 2020.04 PHASE 1B.
- FOR LANE TRANSITION FROM CONTRACT 2020.03 PHASE 2 TO CONTRACT 2020.04 PHASE 1A, REFER TO DETAIL SHEET MOT-10.



Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	By	Date	
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 Westbrook, ME 04092
 TEL (207) 774-5155
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 PHASE 2

CONTRACT: 2020.03

SHEET NUMBER: MOT-25

33 OF 310

Date: 2/25/2020

Filename: PAW1_MOT_SignSummary_1_MOT-26

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
E5-1	72"	60"		TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			4	GREEN	WHITE	8"	30.00 (120)
E5-2	48"	36"					8	TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			12.00 (96)
E5-2a	48"	36"					3				12.00 (36)
G20-2	48"	24"					6	ORANGE			8.00 (48)
G20-5aP	48"	24"					13				8.00 (104)
R2-1 (45)	48"	60"					4	WHITE			20.00 (80)
R2-1 (50)	48"	60"					6				20.00 (120)
R2-6aP	48"	36"					13				12.00 (156)
R2-12	36"	54"					7				13.50 (94.5)
R4-9	36"	48"					10				12.00 (120)
W1-4L	48"	48"					3	ORANGE			16.00 (48)
W1-4bR	48"	48"					6				16.00 (96)
W1-4bL	48"	48"					3				16.00 (48)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
W1-4cR	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			2	ORANGE	COLORS AND BORDER RADIUS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"		16.00 (32)
W1-4cL	48"	48"					2				16.00 (32)
W3-4	48"	48"					4				16.00 (64)
W3-5 (50)	48"	48"					10				16.00 (160)
W4-1	48"	48"					3				16.00 (48)
W4-2L	48"	48"					2				16.00 (32)
W4-2R	48"	48"					4				16.00 (64)
W5-1	48"	48"					6				16.00 (96)
W5-4	48"	48"					3				16.00 (48)
W7-3aP (X MILES) (X FEET)	24"	18"					2 6				3.00 (6) 3.00 (18)
W8-1	48"	48"					4				16.00 (64)

Scale: NOT TO SCALE

Designed by:



HNTB CORPORATION
340 County Road, Suite 6-C
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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINTENANCE OF TRAFFIC
SIGN SUMMARY

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
By	Date	By	Date
Designed	LAD 2/20	Checked	TRS 2/20
Drawn	GW 2/20	In Charge of	RAL 2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03



SHEET NUMBER: MOT-26

34 OF 310

Date: 2/25/2020

Filename: PAW1_MOT_SignSummary_1_MOT-27

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
W13-4P	36"	36"	ON RAMP	TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			1	ORANGE			9.00 (9)
W16-2P	30"	24"	XXX FEET				6				5.00 (30)
W20-1 (AHEAD) (1 MILE)	48"	48"	ROAD WORK XXX				8				16.00 (128)
W20-5aR (1/2 MILE)	48"	48"	2 RIGHT LANE CLOSED 1/2 MILE				2				16.00 (32)
W20-5L (1/2 MILE)	48"	48"	LEFT LANE CLOSED 1/2 MILE				2				16.00 (32)
W20-5R (1/2 MILE)	48"	48"	RIGHT LANE CLOSED 1/2 MILE				2				16.00 (32)
W21-5	48"	48"	SHOULDER WORK				4				16.00 (64)
W21-5aL	48"	48"	LEFT SHOULDER CLOSED				4				16.00 (64)
W21-5aR	48"	48"	RIGHT SHOULDER CLOSED				12				16.00 (192)
W21-5bR	48"	48"	RIGHT SHOULDER CLOSED 1000 FT				2				16.00 (32)
W22-1	48"	48"	BLASTING ZONE AHEAD				8				16.00 (128)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
W22-2	42"	36"	TURN OFF 2-WAY RADIO AND CELL PHONE	TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS OR AS SUPERSEDED BY 2012 SUPPLEMENT"			8	ORANGE			10.50 (84)
W22-3	42"	36"	END BLASTING ZONE				8				10.50 (84)
W24-1L	48"	48"					2				16.00 (32)
W24-1R	48"	48"					2				16.00 (32)
CS-1	48"	48"	RUMBLE STRIPS AHEAD	6" C	4"		4		BLACK		16.00 (64)
CS-2	48"	48"	SHOULDERS CLOSED	6" C	4"		4				16.00 (64)
CS-3	48"	48"	EXPECT STOPPED TRAFFIC	6" C	4"		4				16.00 (64)
CS-4	48"	48"	EXIT CLOSED AHEAD	6" C	4"		1				16.00 (16)
CS-5	48"	48"	SHOULDER NARROWS	6" C	4"		2				16.00 (32)
CS-10	48"	48"	TRUCKS ENTERING	7" C	6"		40				16.00 (640)
CS-11	48"	48"	NO STOPPING ON PAVEMENT	6" C	4"		1				16.00 (16)

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	LAD	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC SIGN SUMMARY

SHEET NUMBER: MOT-27
 CONTRACT: 2020.03
 35 OF 310

Date: 2/25/2020

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET (TOTAL)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
CS-19	48"	48"		6" C 6" C 6" C	4" 4"		4	ORANGE	BLACK		16.00 (64)
CS-22	48"	48"		6" C 6" C	4"		22				16.00 (352)
CS-44	60"	36"		8" C 8" C	7" 6" 7"	↓	6	↓	↓	↓	15.00 (90)

Filename: PAW1_MOT_SignSummary_1_MOT-28.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date
Designed	LAD	2/20	Checked	TRS 2/20
Drawn	GW	2/20	In Charge of	RAL 2/20

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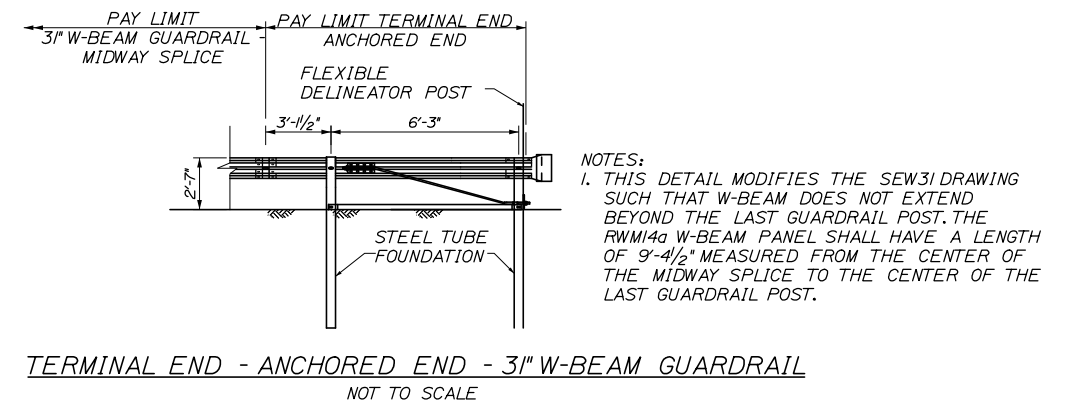
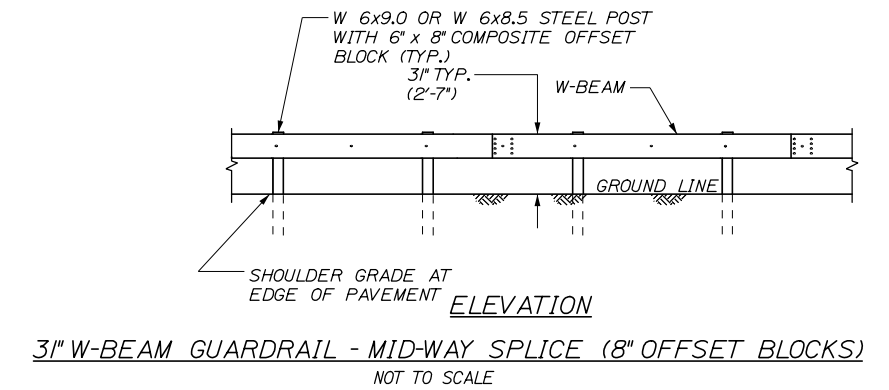
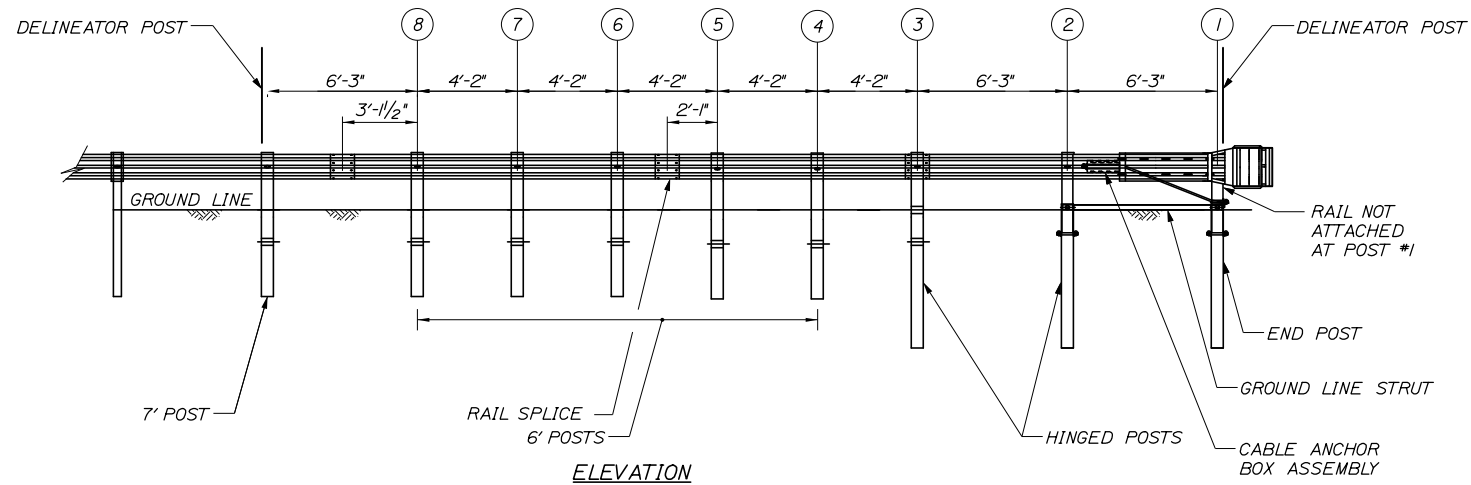
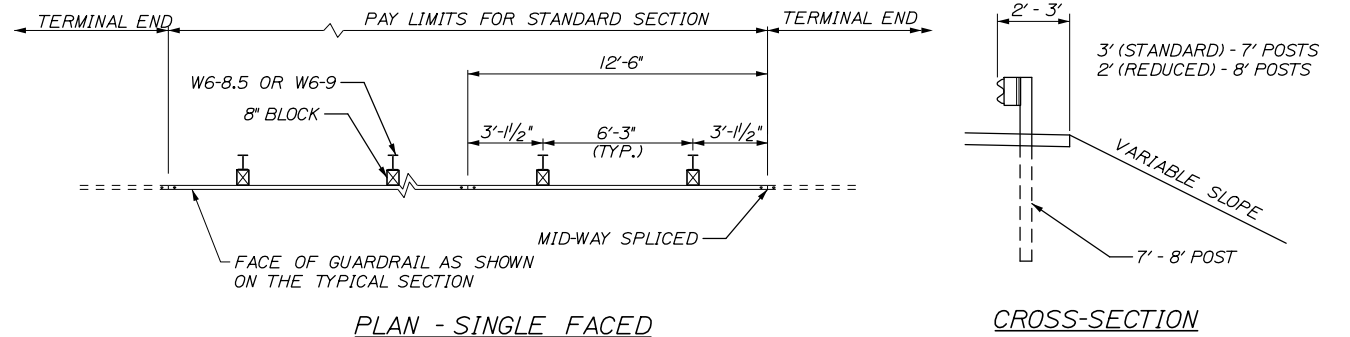
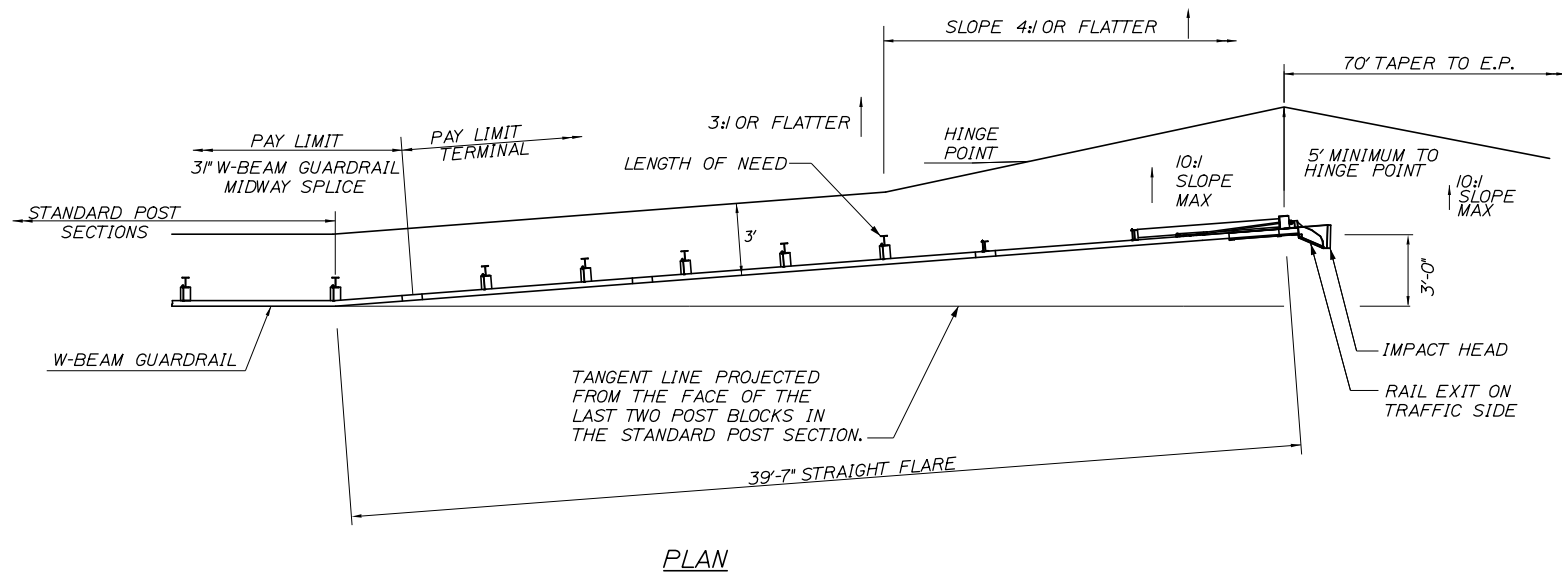
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINTENANCE OF TRAFFIC
 SIGN SUMMARY

SHEET NUMBER: MOT-28
 CONTRACT: 2020.03
 36 OF 310

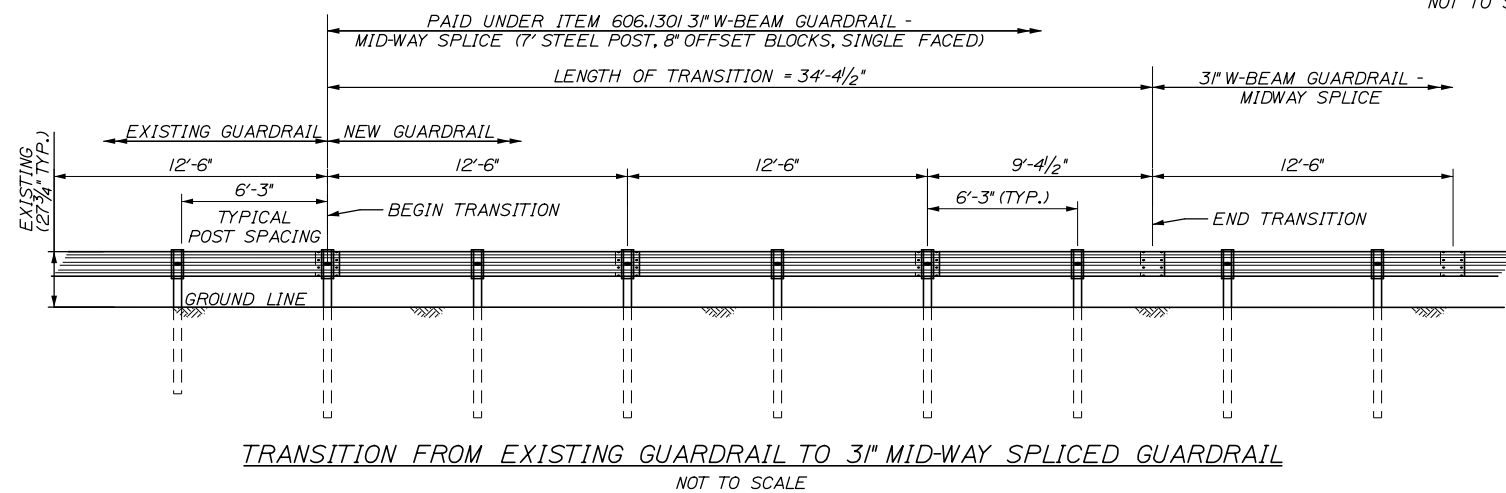
Date: 2/25/2020



3" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL
NOT TO SCALE

GENERAL GUARDRAIL INSTALLATION NOTES:

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 NOT FEATURES.
3. GUARDRAIL HEIGHT SHALL BE 3'. GUARDRAIL HEIGHT SHALL BE MEASURED FROM AT GROUND ELEVATION ADJACENT TO EACH POST.
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.
6. TERMINAL UNIT SHALL BE MFLAT AND MASH CERTIFIED AS MANUFACTURED BY ROAD SYSTEMS INC.
7. SEE SPECIFICATIONS FOR REFLECTIVE SHEETING REQUIREMENTS.



TRANSITION FROM EXISTING GUARDRAIL TO 3" MID-WAY SPLICED GUARDRAIL
NOT TO SCALE


TRANSITION FROM EXISTING GUARDRAIL NOTES:

1. MAINTAIN STANDARD 1" CLEARANCE OF POST ABOVE PANEL THROUGHOUT THE ENTIRE LENGTH OF TRANSITION.
2. A MINIMUM OF ONE (1) 12'-6" PANEL SHALL BE PLACED BETWEEN THIS TRANSITION AND THE START OF ANY END TREATMENT OR ANCHORAGE.
3. ALL NEW POSTS SHALL BE 84" IN LENGTH UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by: HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
Designed	PJS	2/20	Checked
Drawn	GW	2/20	In Charge of

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



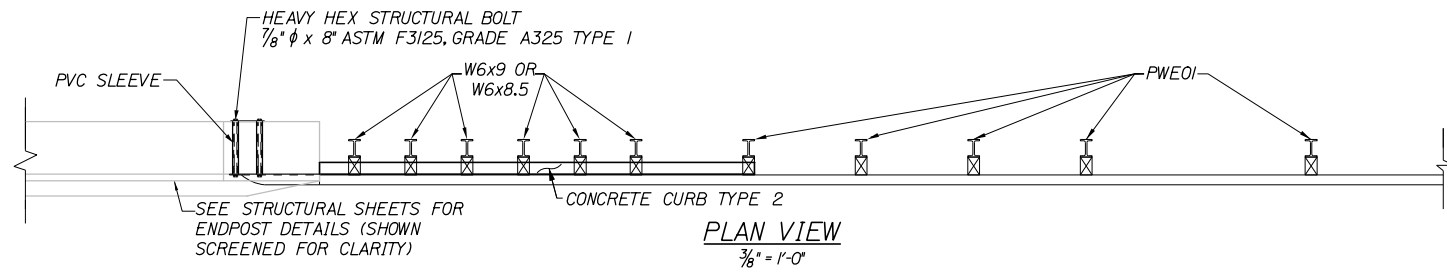
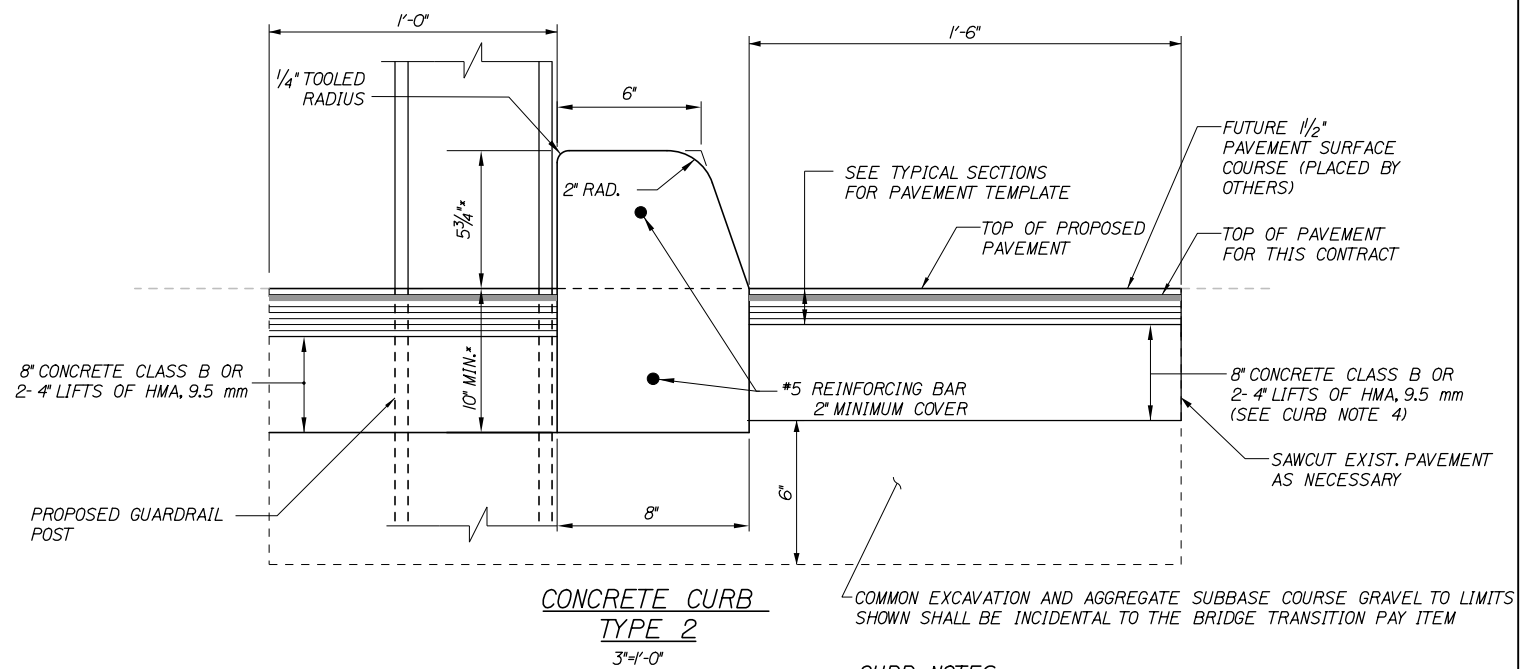
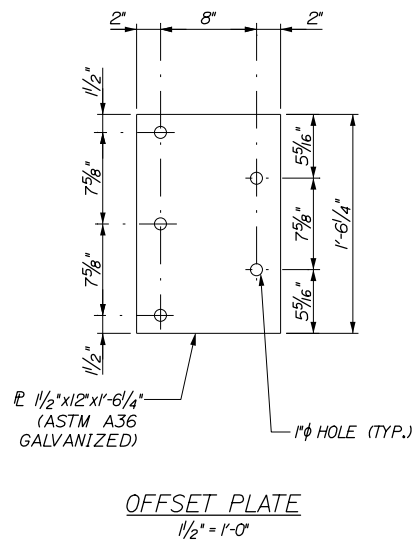
**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
GUARDRAIL DETAILS
MIDWAY SPLICE

SHEET NUMBER: CD-01
CONTRACT: 2020.03
97 OF 310

Filename: PAW1_GuardrailDetails IV.dgn

Date: 2/25/2020

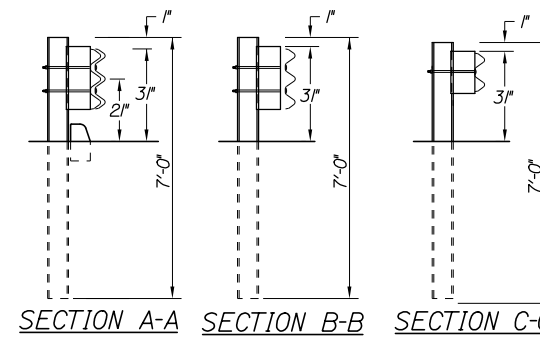
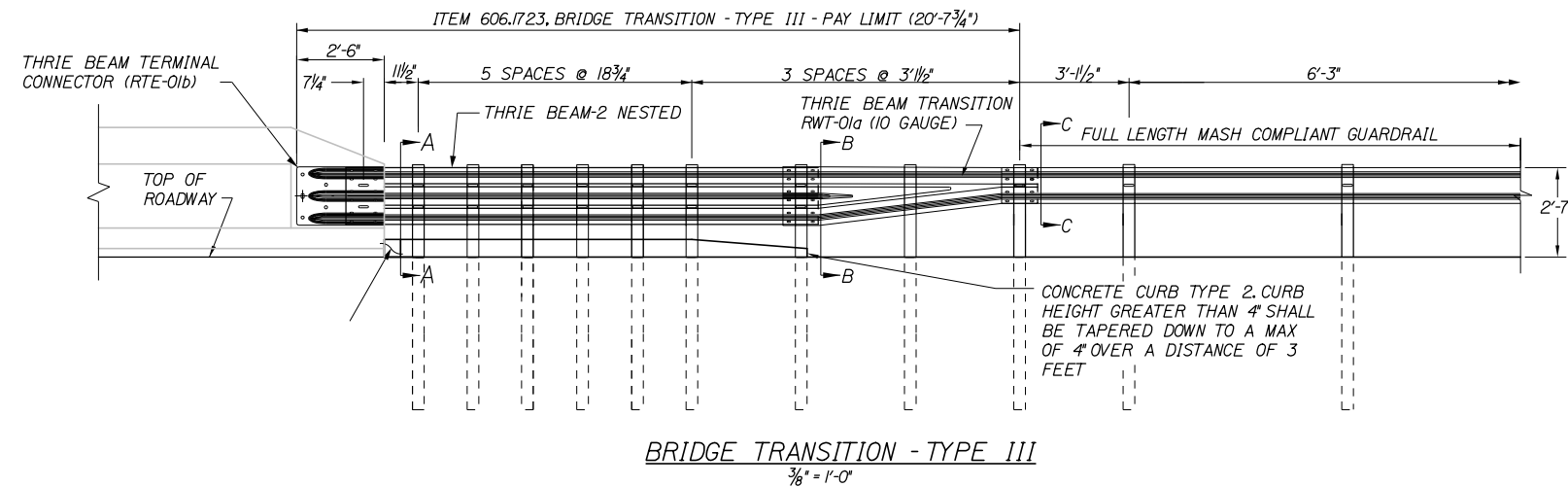


CURB NOTES:

- CURB SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS.
- CONCRETE CURBS USED IN CONJUNCTION WITH THRIE-BEAM BRIDGE TRANSITION SHALL BE TYPE 2. SEE DETAILS THIS SHEET. CONCRETE CURBS SHALL BE SET TO FORM A CONTINUOUS GUTTERLINE WITHOUT ANY DRAINAGE OPENINGS.
- CURB TRANSITION SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.
- SAWCUTTING EXISTING PAVEMENT, CONCRETE FILL AND PAVEMENT TO LIMITS SHOWN SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.

GUARDRAIL NOTES:

- ADDITIONAL HOLES MAY BE MADE IN THE THRIE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN HOLE. BURNING HOLES WILL NOT BE ALLOWED.
- THRIE BEAM SHALL BE PLACED WITH THE COMPOSITE BLOCKOUT FACE IN FRONT OF OR DIRECTLY ABOVE THE CURB FACE.
- RAIL ELEMENT SHALL MEET ALL REQUIREMENTS OF AASHTO M-180 EXCEPT AS MODIFIED ON THE PLANS. THE THRIE BEAM TRANSITION TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE LESS THAN 10 GAUGE.
- AFTER INSTALLATION IS COMPLETE, UPSET THE THREAD ON THE ANCHOR BOLTS IN THREE PLACES AROUND EACH BOLT, AT THE JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER PUNCH OR SIMILAR TOOL.
- STANDARD BARRIER HARDWARE HAS BEEN USED TO DEVELOP THESE GUARDRAIL ATTACHMENTS. DESIGNATIONS PROVIDED IN PARENTHESES RELATE TO STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED BARRIER RAIL HARDWARE," 1995, AASHTO-AGC-ARTBA JOINT COOPERATE COMMITTEE, 2013 UPDATE.
- 1" HOLE IN CONCRETE SHALL BE FORMED BY A 1" I.D. PVC SLEEVE AS APPROVED BY THE ENGINEER.
- GUARDRAIL HEIGHT SHALL BE ADJUSTED UNIFORMLY BETWEEN SECTION CALLOUTS.




Filename: PAW1_GuardrailDetails II.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:						
HNTB						
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.						
	By	Date		By	Date	
	PJS	2/20		TRS	2/20	
	Drawn	GW	2/20	In Charge of	RAL	2/20

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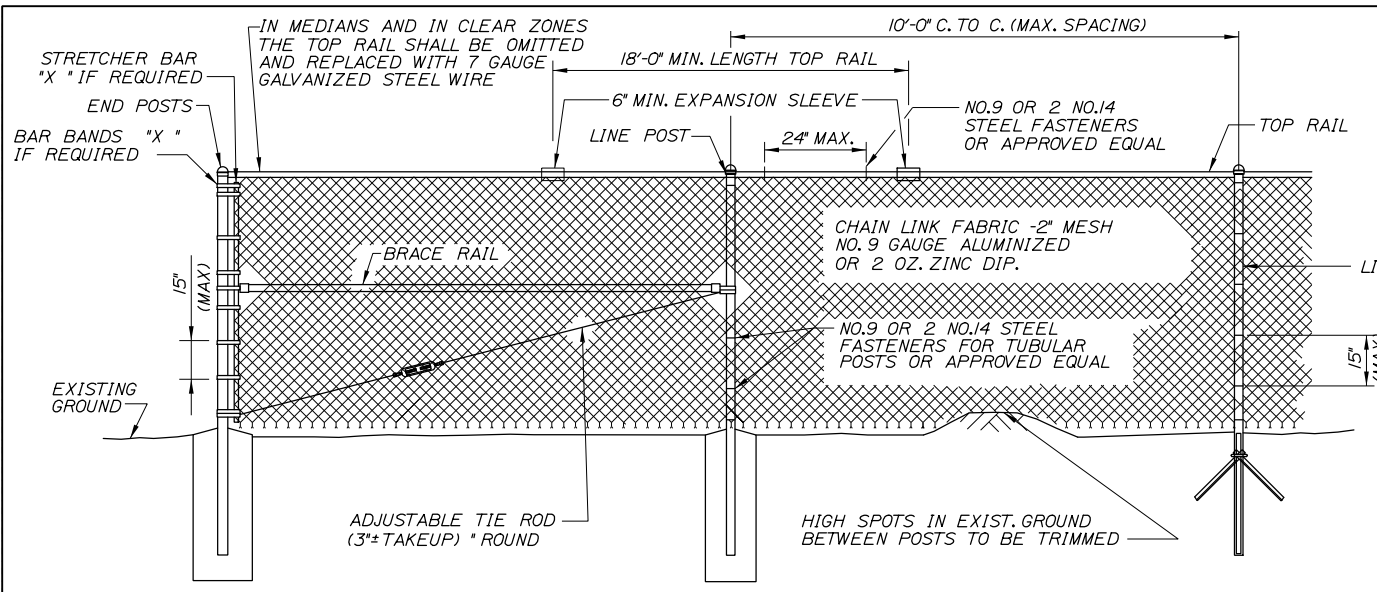
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

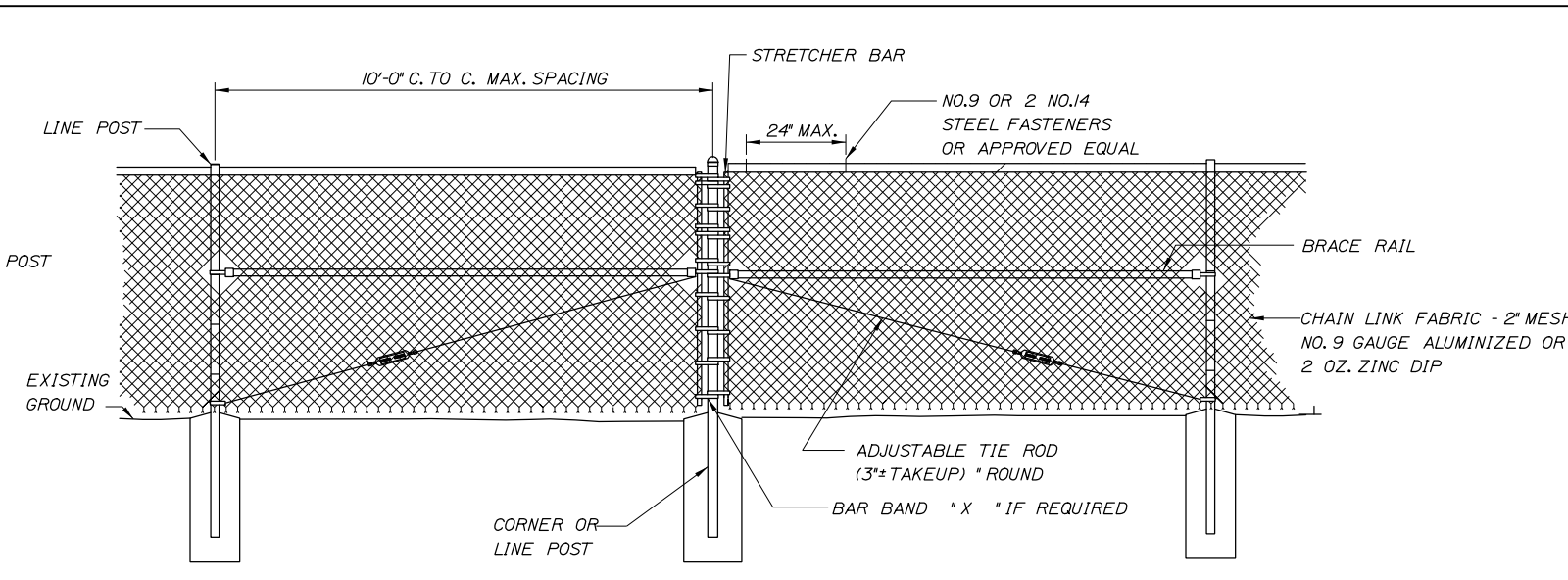
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
GUARDRAIL DETAILS
BRIDGE TRANSITION

SHEET NUMBER: CD-02
CONTRACT: 2020.03
98 OF 130

Date: 2/25/2020

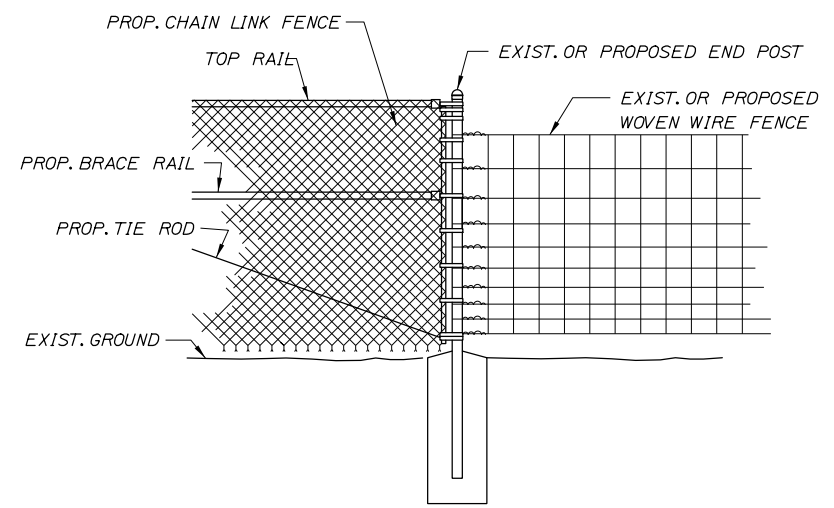


TYPICAL TYPE I END PANEL
N.T.S.

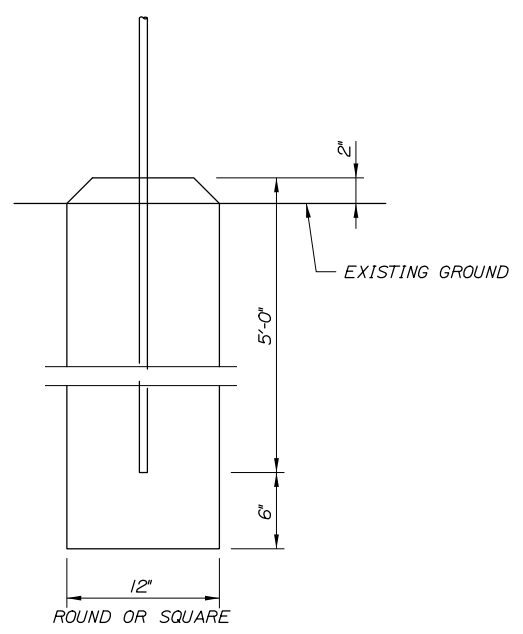


TYPICAL TYPE II BRACE PANEL
N.T.S.

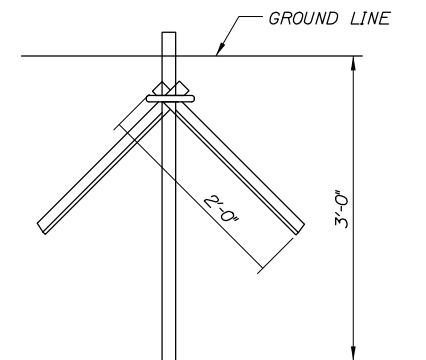
TYPICAL INTERMEDIATE PANEL
N.T.S.



METHOD OF ATTACHING CHAIN LINK FENCE TO WOVEN WIRE FENCE
N.T.S.



BRACE, GATE AND END POST BASE DETAIL
N.T.S.



LINE POST DRIVE ANCHOR DETAIL
N.T.S.

GATE WIDTH		GATE POST O.D.
W1	W2	
TO 6'	TO 12'	3"
6' TO 12'	12' TO 24'	4"
12' TO 18'	24' TO 36'	6"

BENDING MOMENTS BASED ON GRADE 1 (SCHEDULE 40 STEEL)

CHAIN LINK FENCE	SHAPE	NOMINAL SIZE (INCHES)	BENDING MOMENT* (LBS.-IN.)
END & CORNER POSTS	φ	2 I.D.	14,025
LINE POSTS	φ	1-1/2 I.D.	8,150
TOP & BRACE RAILS	φ	1-1/4 I.D.	5,875

* MATERIAL FOR GRADE 2 END, CORNER & LINE POSTS AND TOP & BRACE RAILS MUST MEET OR EXCEED BENDING MOMENTS FOR GRADE 1 STEEL AS NOTED ABOVE.

NOTES:

- BRACE PANELS SHALL BE INSTALLED WHERE THE CHANGE IN GRADE BETWEEN ANY THREE POSTS EXCEEDS 15 PERCENT.
- NO ADDITIONAL PAYMENT WILL BE MADE FOR LONGER POSTS NECESSITATED BY LARGE GRADE DIFFERENTIAL.
- TYPE I BRACING WILL BE USED AT FENCE ENDS. TYPE II BRACING WILL BE USED AT CORNER POSTS.
- WHEN LEDGE IS ENCOUNTERED, STEEL POSTS SHALL BE SET AND GROUTED 12" DEEP UNLESS THE POSTS PENETRATE THE GROUND TO THE DEPTH INDICATED ON THE DRAWINGS.
- CONCRETE FOR POST FOUNDATION SHALL BE CLASS B.
- BRACE, GATE AND END POSTS SHALL BE SET IN CONCRETE.
- CHAIN LINK FENCE SHALL BE INSTALLED WITH BARBS DOWN.
- ALL COMPONENTS OF CHAIN LINK FENCE SHALL BE IN ACCORDANCE WITH AASHTO M181.

Filename: PAW1_Fence Details.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PJS	2/20	Checked	TRS	2/20
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Westbrook, ME 04092
TEL (207) 774-5155
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MAINE TURNPIKE

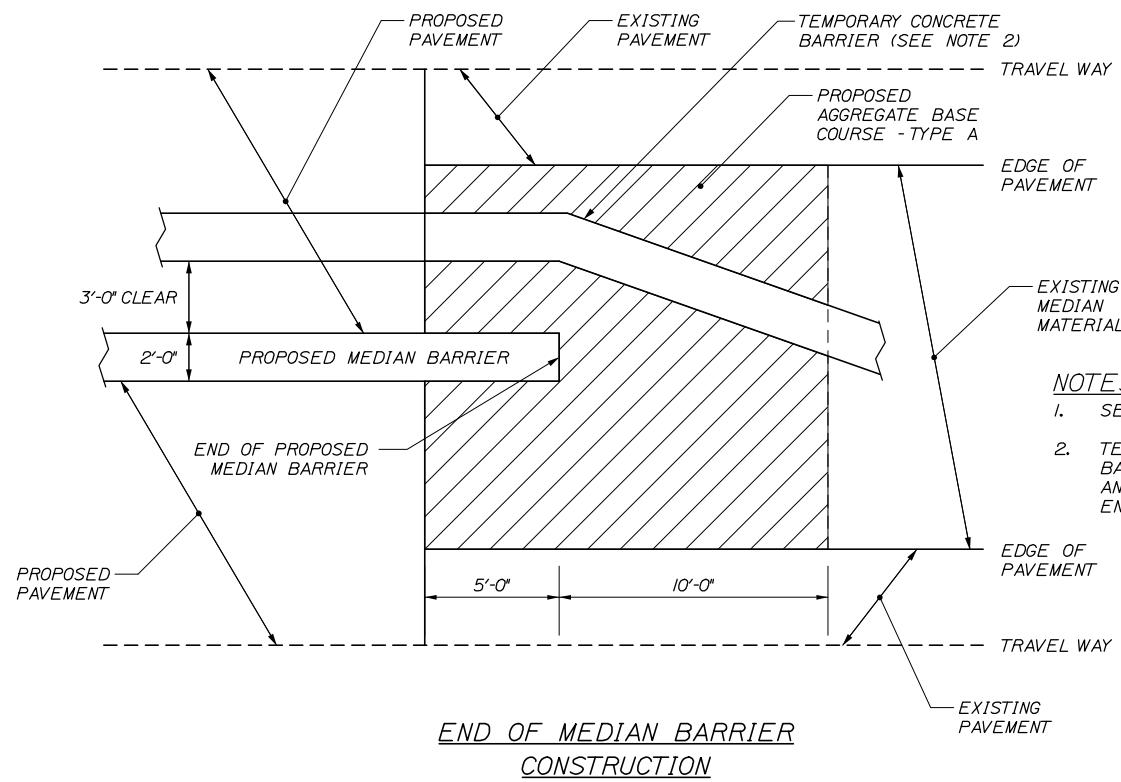
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
CHAIN LINK FENCE DETAILS

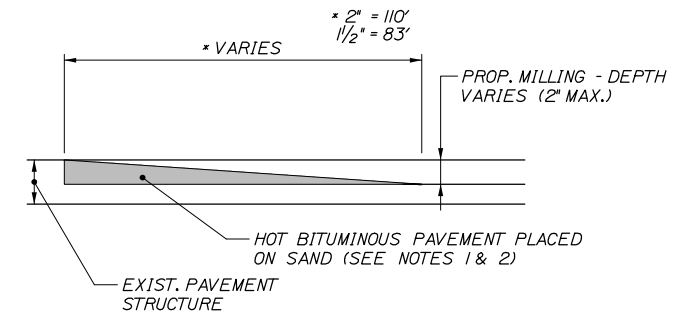
SHEET NUMBER: CD-03
CONTRACT: 2020.03
9 OF 310

Date: 2/26/2020



NOTES:

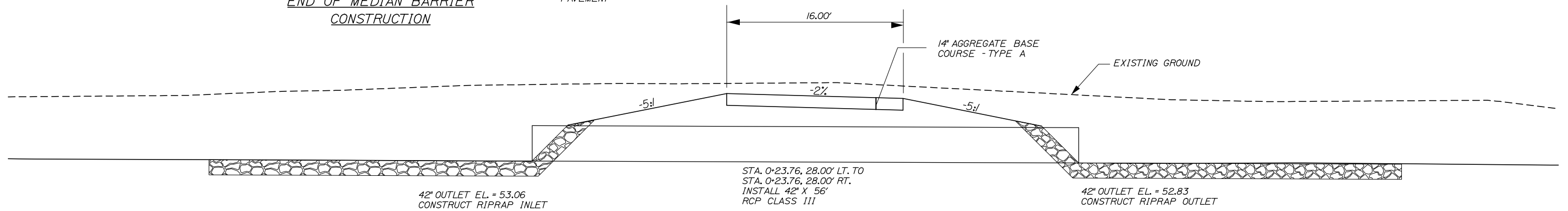
1. SEE HIGHWAY PLANS FOR LOCATIONS.
2. TEMPORARY CONCRETE BARRIER TO OVERLAP PERMANENT CONCRETE BARRIER BY 50 FT. AND TO MAINTAIN 3 FT. CLEAR SEPARATION. ANGLE POINT OF TEMPORARY CONCRETE BARRIER TO BE AT THE END OF THE PERMANENT BARRIER.



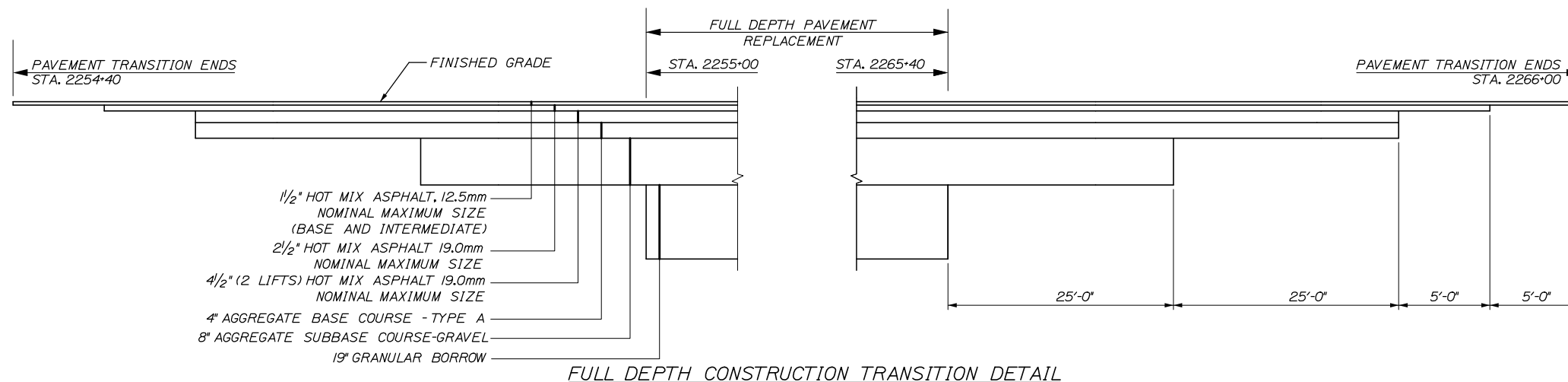
TEMPORARY BITUMINOUS RAMP

NOTES:

1. HOT MIX ASPHALT FOR TEMPORARY RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO HOT MIX ASPHALT 12.5 MM.
2. REMOVAL OF TEMP. BITUMINOUS RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO HOT MIX ASPHALT 12.5 MM.



VMS DRIVEWAY ACCESS DETAIL



FULL DEPTH CONSTRUCTION TRANSITION DETAIL

Filename: PAW1_Miscellaneous Details.dgn

Scale:
NOT TO SCALE

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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MISCELLANEOUS DETAILS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PJS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: CD-04

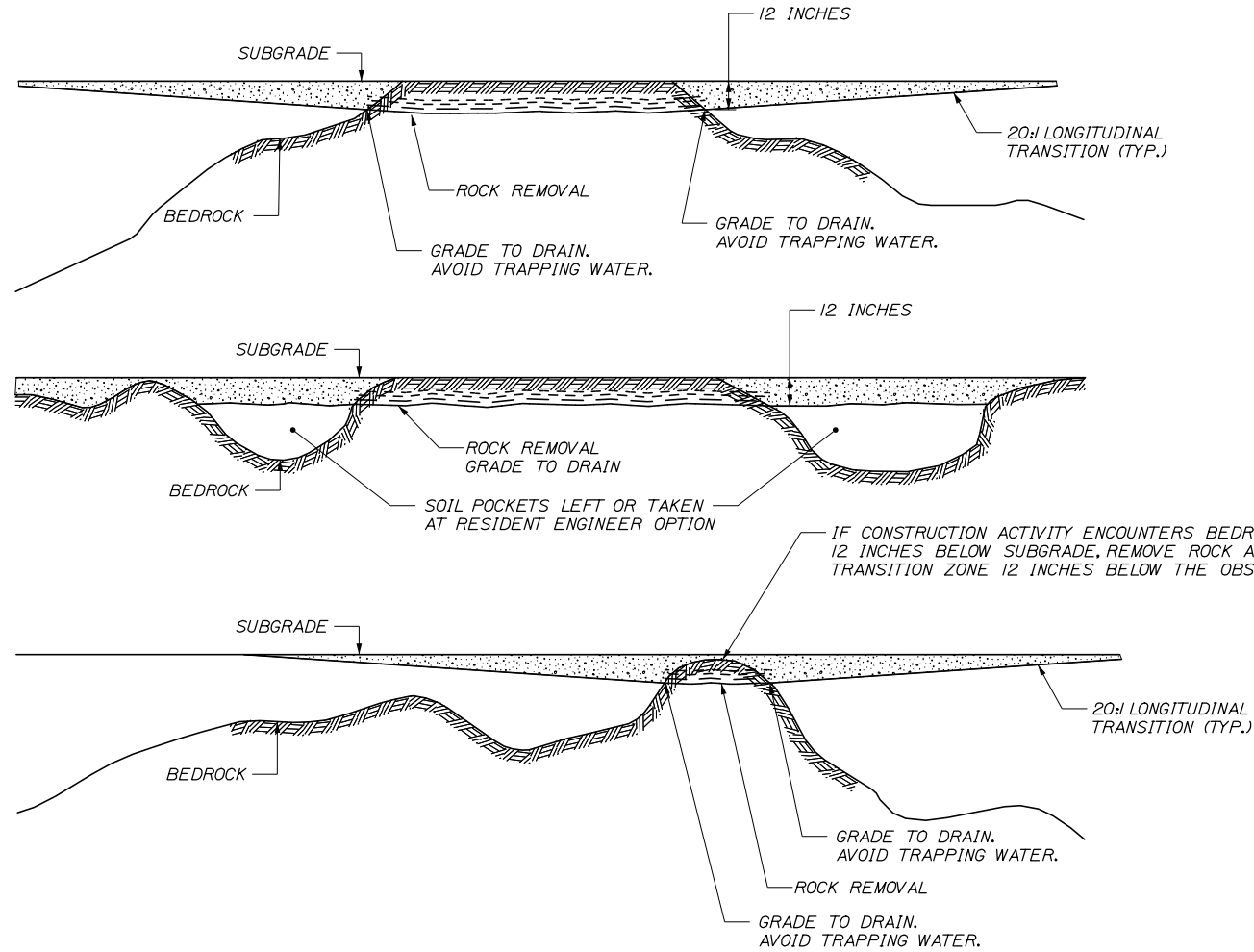
40 OF 310

Date: 2/25/2020

Filename: PAW1_Undercut-for-Ledge.dgn

NOTES:

1. EXCAVATION OF THE TRANSITION ZONES SHALL BE PAID FOR AS COMMON EXCAVATION. THE CONTRACTOR SHALL REPLACE THE FROST SUSCEPTIBLE SOILS WITH GRANULAR BORROW AND SHALL BE PAID FOR UNDER THE GRANULAR BORROW PAY ITEM.
2. FOR POTENTIAL BEDROCK LOCATIONS, REFER TO THE SUBSURFACE EXPLORATION REPORT AND CROSS SECTIONS. ACTUAL BEDROCK LOCATIONS WILL VARY.
3. REFER TO SOILS REPORT - FOR ADDITIONAL TRANSITION ZONE DETAILS.
4. APPROXIMATE ANTICIPATED AREAS OF LEDGE ARE SHOWN ON CROSS SECTIONS. ADDITIONAL AREAS OF LEDGE MAY BE ENCOUNTERED AND THE NEED FOR UNDERCUT AND TRANSITIONS SHOULD BE VERIFIED BY THE RESIDENT.
5. ROCK REMOVAL DEPTH SHALL BE 12 INCHES BELOW SUBGRADE IN ALL AREAS WHERE ROCK IS ENCOUNTERED TO CREATE SUBGRADE. THE ROCK SUBGRADE SHALL BE GRADED TO DAYLIGHT TO AVOID PONDING.
6. WHERE BEDROCK IS ENCOUNTERED WITHIN 2' BELOW SUBGRADE, ALL OVERBURDEN SOIL SHALL BE EXCAVATED AND REPLACED WITH GRANULAR BORROW.

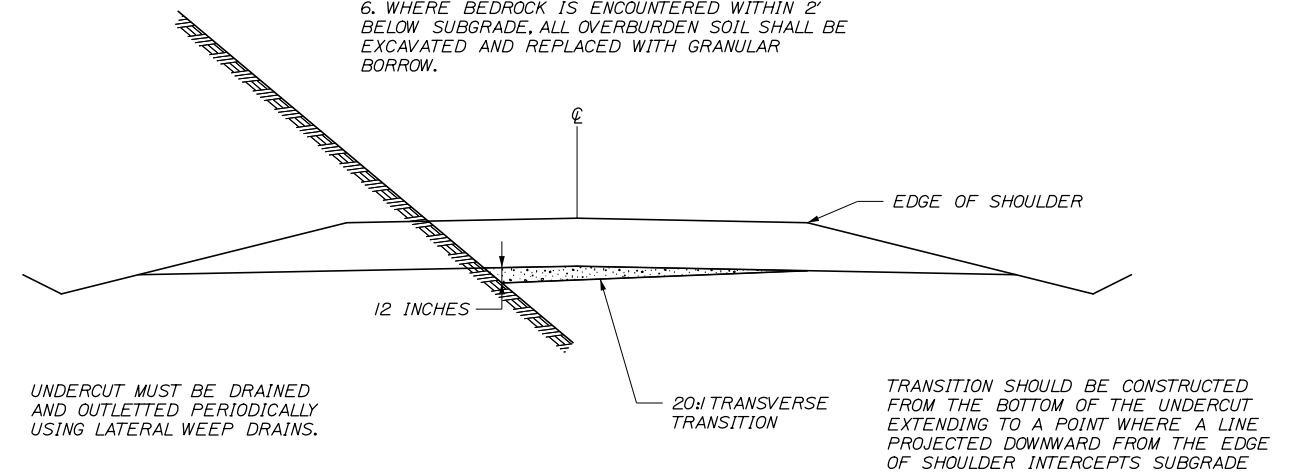


IF A SOIL SECTION BETWEEN LEDGE SUBGRADE IS OF SUCH LENGTH THAT THE TRANSITION FROM EACH EDGE WOULD MEET, IT SHOULD BE TREATED AS AN EARTH POCKET.

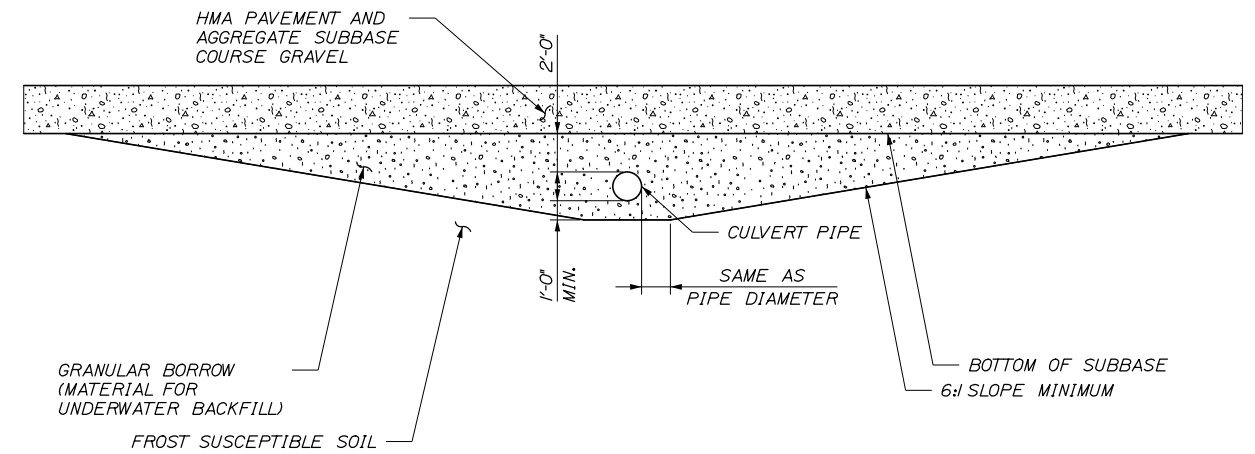
PROFILE OF UNDERCUT OF FROST SUSCEPTIBLE SOILS OVER LEDGE

LEGEND

- SOLID BEDROCK
- FROST SUSCEPTIBLE SOIL TO BE UNDERCUT AND REPLACED WITH NON FROST SUSCEPTIBLE MATERIAL
- FROST SUSCEPTIBLE SOIL
- ROCK REMOVAL



TRANSVERSE UNDERCUT OF FROST SUSCEPTIBLE SOILS OVER LEDGE



CROSS CULVERT IN FROST SUSCEPTIBLE SOILS

NOTE:

FOR CROSS CULVERT OR PIPE IN BEDROCK, MODIFY TRANSITION SLOPE TO 2:1, AND MODIFY BACKFILL TO CRUSHED STONE EXCEPT THAT PIPE SHALL BE BEDDED ON GRANULAR BORROW FOR UNDERWATER BACKFILL.

Scale: NOT TO SCALE

Designed by:



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Westbrook, ME 04092
TEL (207) 774-5155
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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SPECIAL DETAILS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date		By	Date
Designed	PJS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

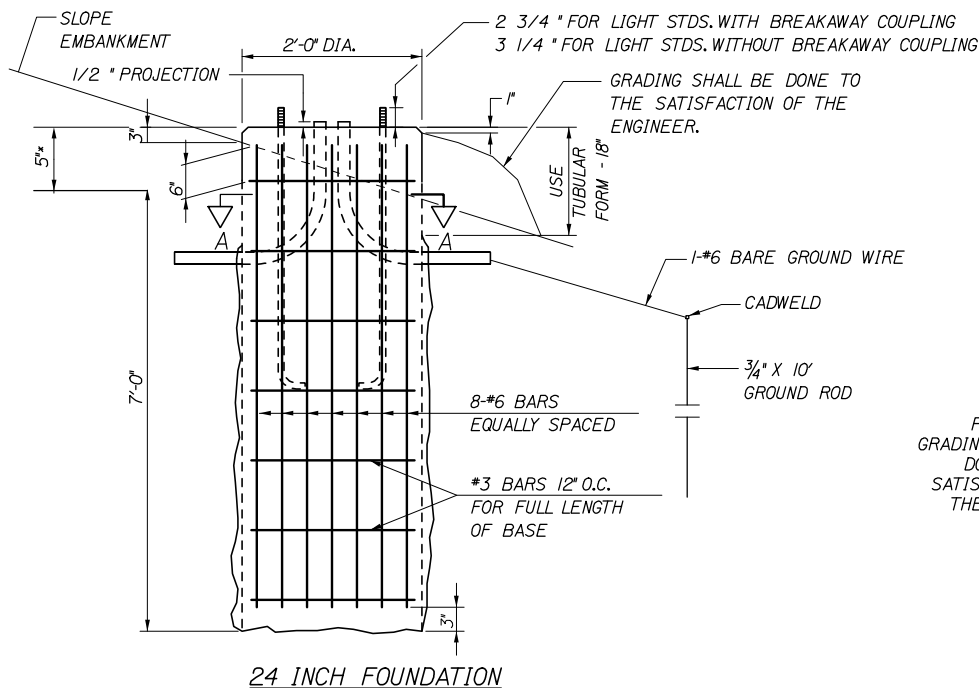
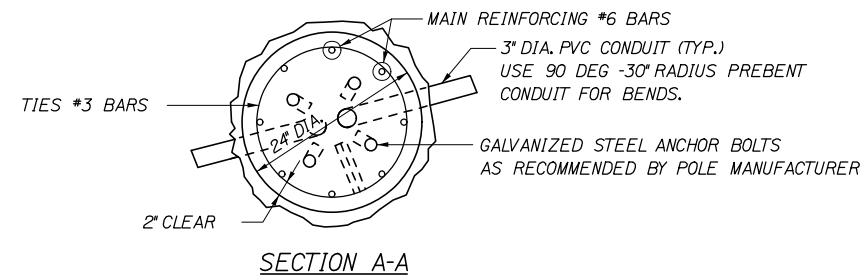
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

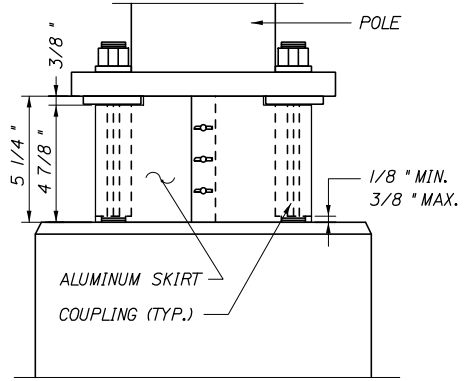
SHEET NUMBER: CD-05

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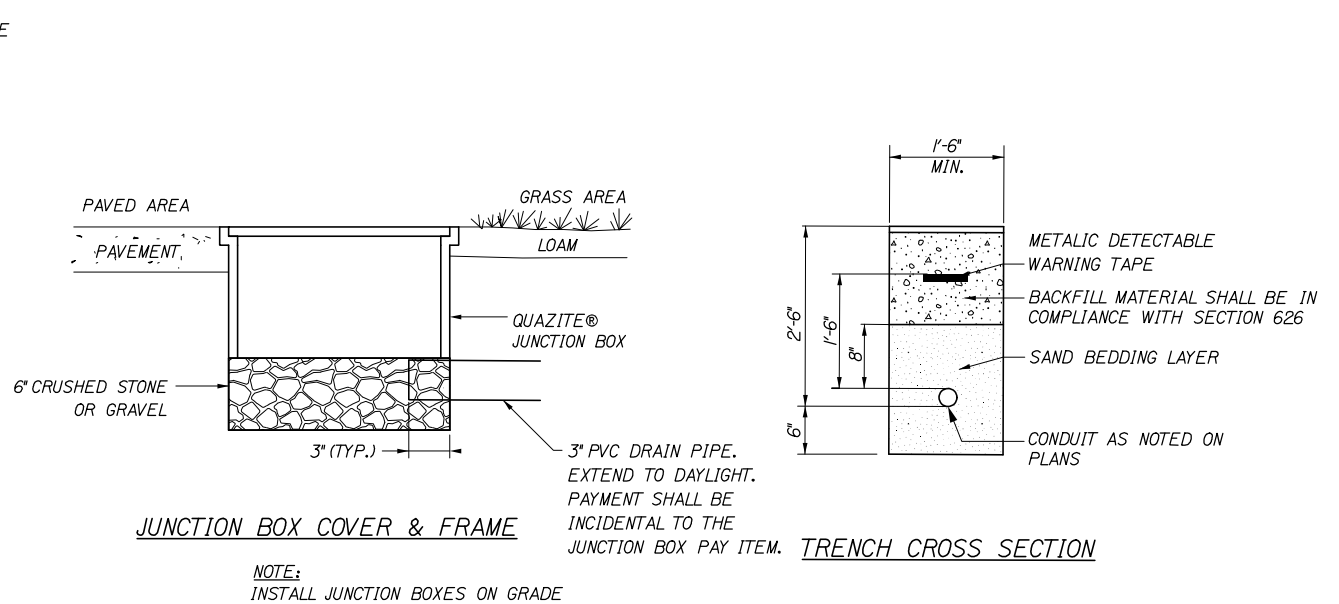
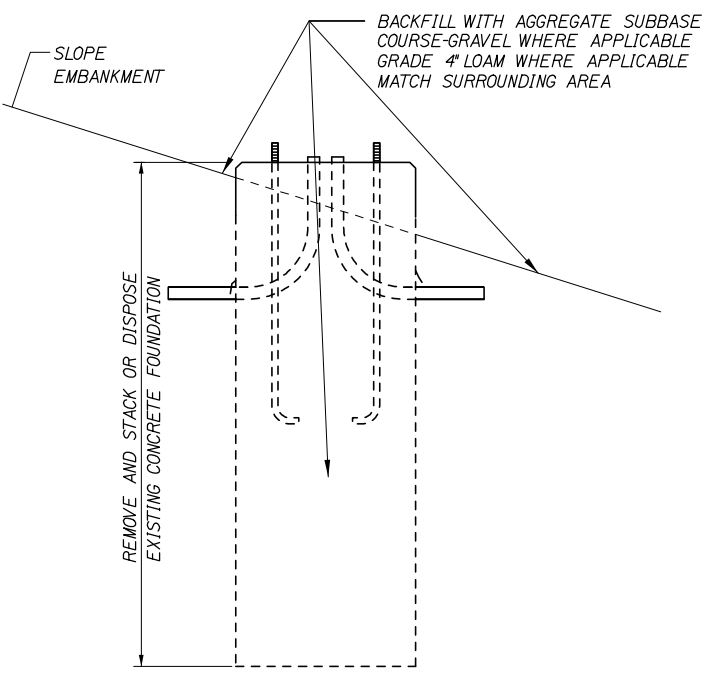
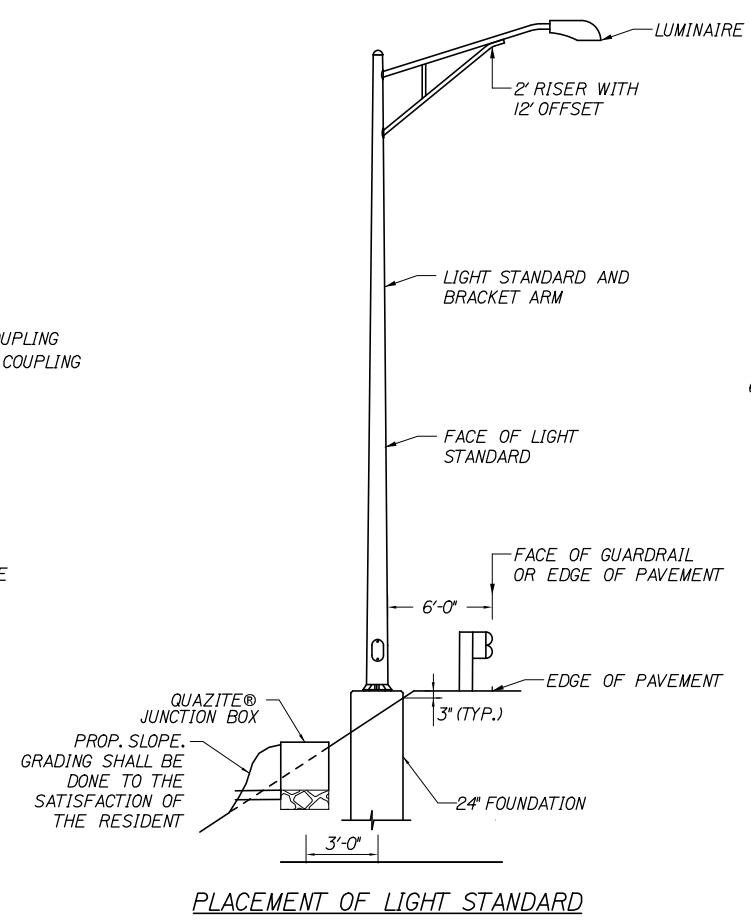
Date: 2/26/2020



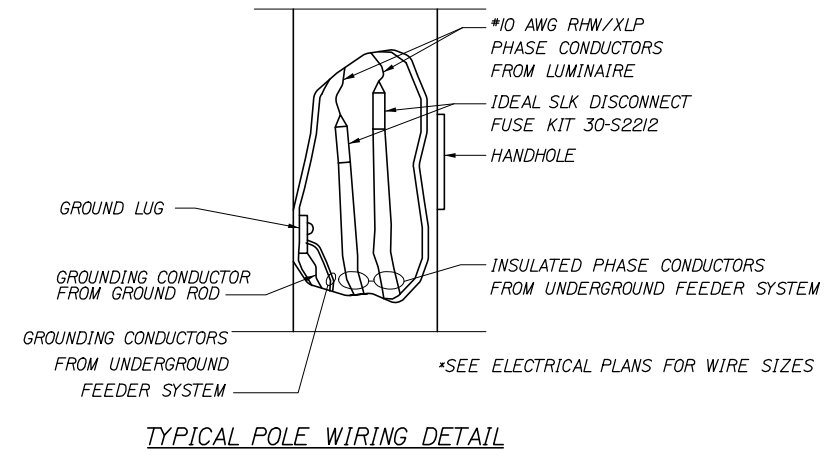
NOTE: WHERE SOLID ROCK IS ENCOUNTERED AT LESS THAN THE REQUIRED DISTANCE BELOW GROUND LEVEL, REINFORCING STEEL SHALL BE DOWELED INTO LEDGE AS SHOWN ON MAINE DOT STANDARD DETAIL 626(06). PAYMENT SHALL BE INCIDENTAL TO THE FOUNDATION PAY ITEM.



* BREAKAWAY COUPLINGS SHALL BE REQUIRED ON ALL NEW AND RESET LIGHT STANDARDS



NOTE: INSTALL JUNCTION BOXES ON GRADE



NOTES:
 1. JUNCTION BOXES FOR HIGHWAY LIGHTING SHALL BE QUAZITE® OR APPROVED EQUAL AND IN ACCORDANCE WITH SPECIAL PROVISION 626.
 2. SPLICES IN JUNCTION BOX SHALL BE MADE WITH BURNDY UGS350ULDB DIRECT BURIAL/SUBMERSIBLE SPLICE WIRE RANGE #12 AWG - 350 KCMIL, ONLY. PROVIDE ENOUGH SLACK IN THE WIRE TO ALLOW REMOVAL OF SPLICES AND NEATLY ARRANGE WIRE IN BOX.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	PJS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

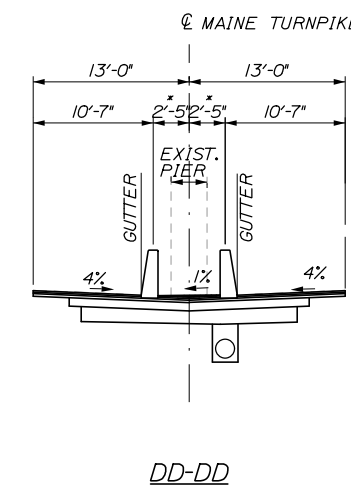
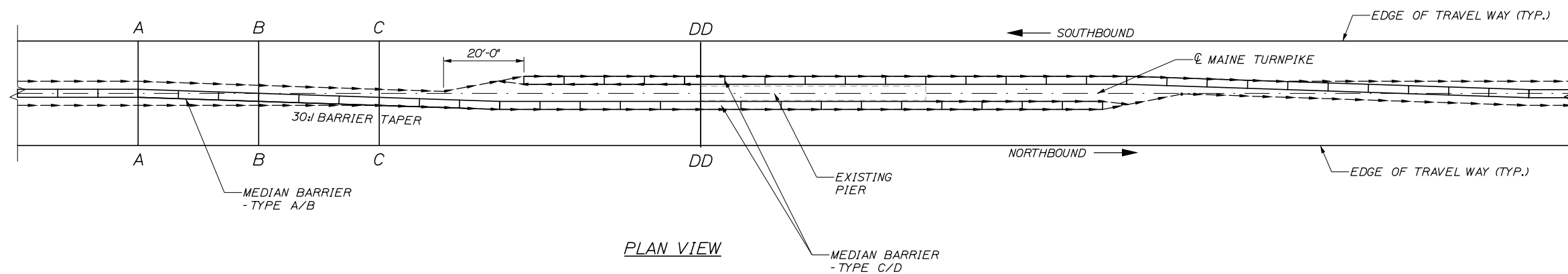
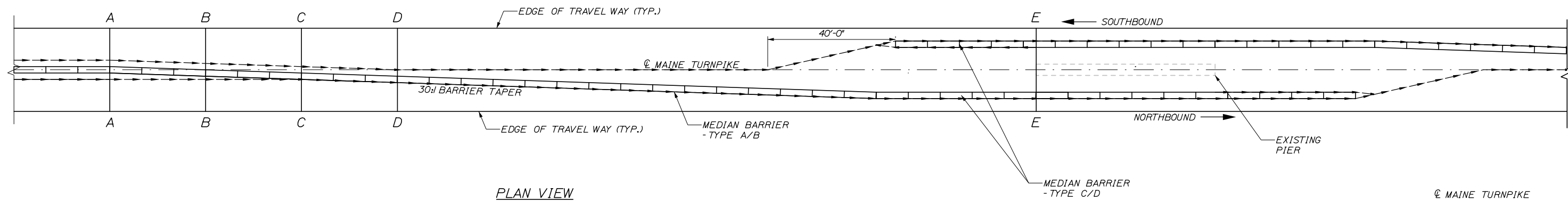
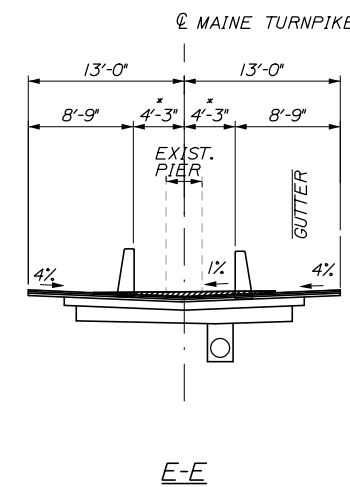
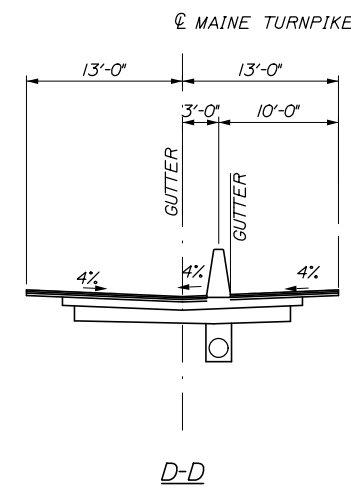
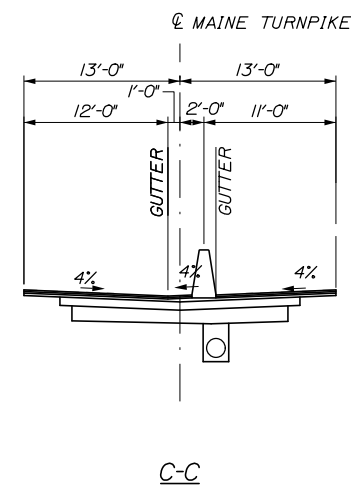
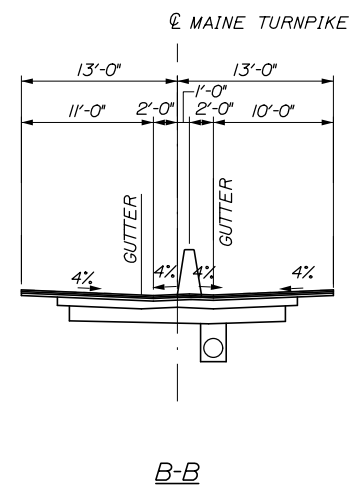
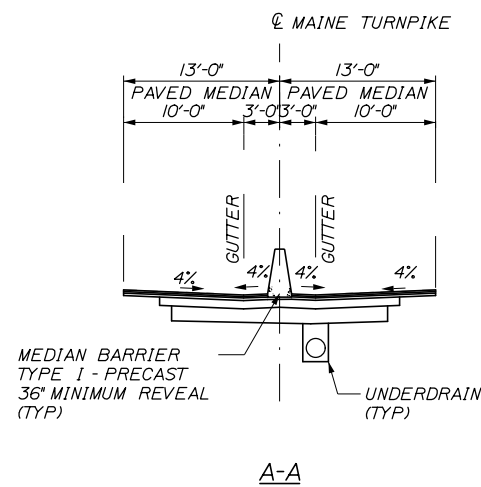
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 LIGHTING DETAILS

SHEET NUMBER: CD-06
 CONTRACT: 2020.03
 42 OF 310

Date: 2/25/2020



* SEE MEDIAN PIER PROTECTION BARRIER LAYOUT SHEET BD-5 FOR MORE DETAILS.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEK	2/20	Checked	PEK	2/20
Drawn	WAD	2/20	In Charge of	RAL	2/20

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 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

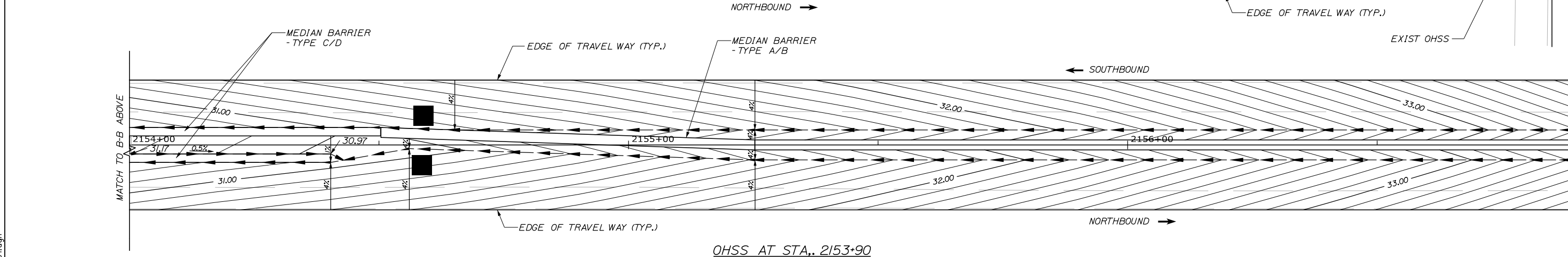
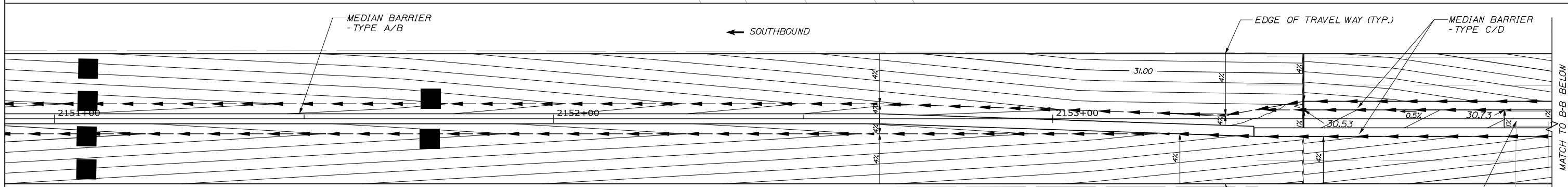
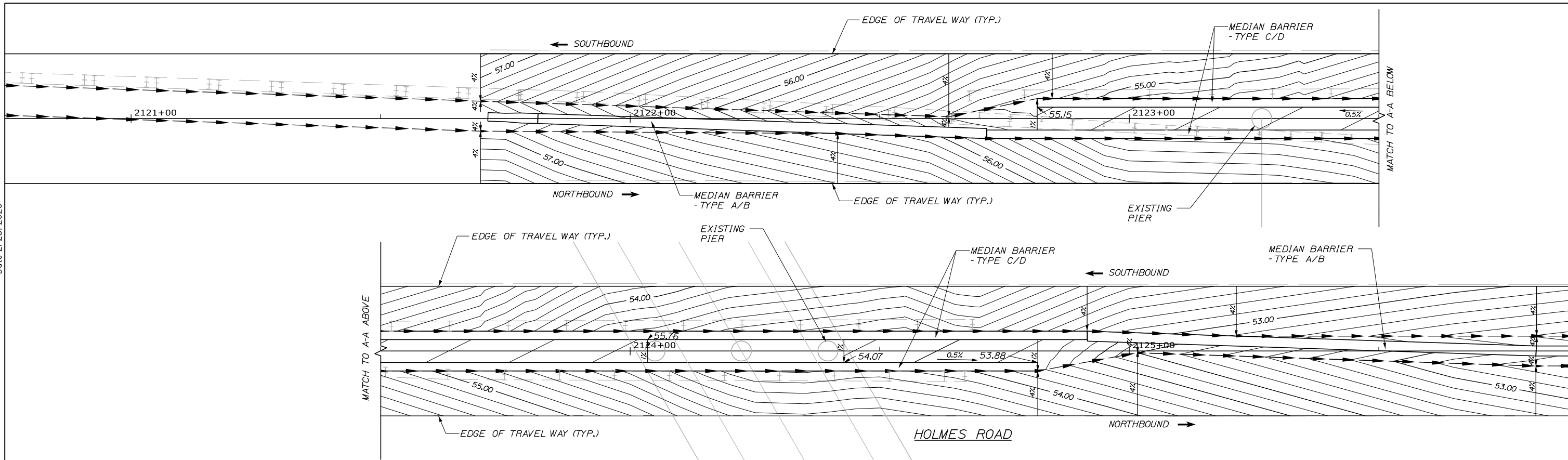
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 49.3
 BARRIER SHIFT DETAIL

SHEET NUMBER: CD-07
 43 OF 310

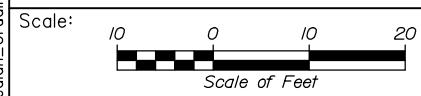
CONTRACTS: 2020.03

Filename: PAW1_drn_barrier_trans.dgn

Date: 2/25/2020



Filename: PAW1_Median_Grading_01.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	SA	2/20	Checked	PEK	2/20
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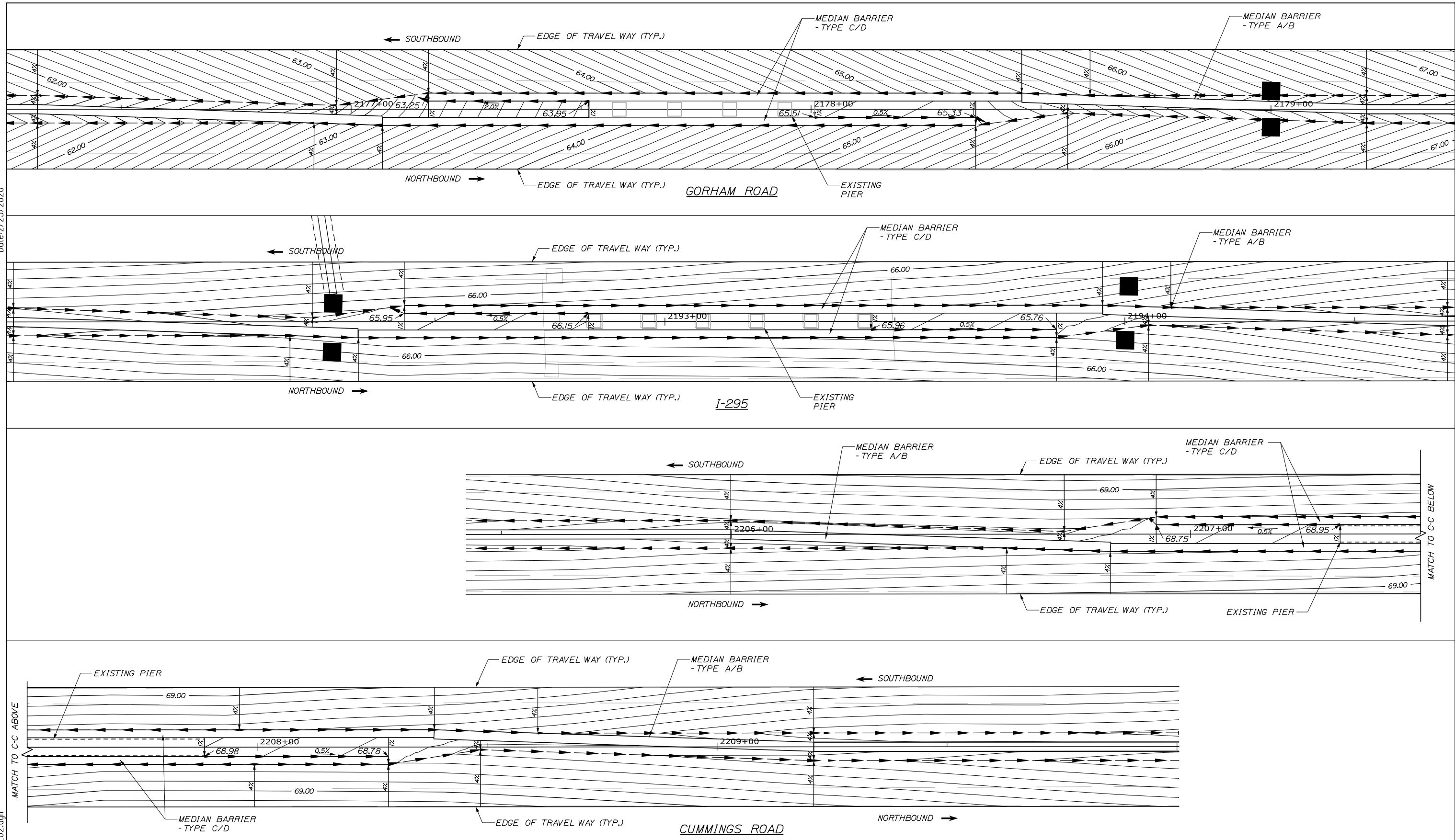
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

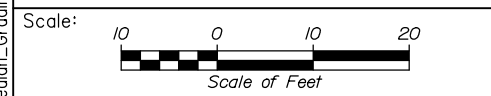
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MEDIAN GRADING DETAILS (1 OF 3)

SHEET NUMBER: CD-08
 CONTRACT: 2020.03
 44 OF 310

Date: 2/25/2020



Filename: PAW1_Median_Grading_02.dgn



No.	Revision	By	Date

Designed by:

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	By	Date		By	Date
Designed	PEK	2/20	Checked	SA	2/20
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

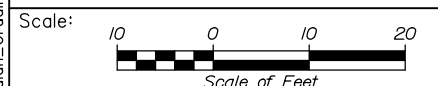
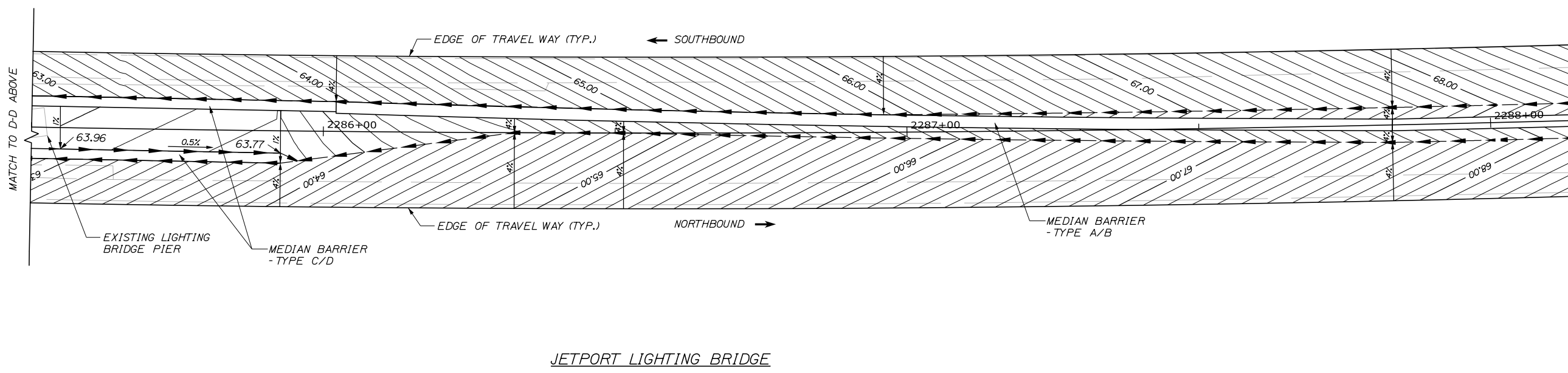
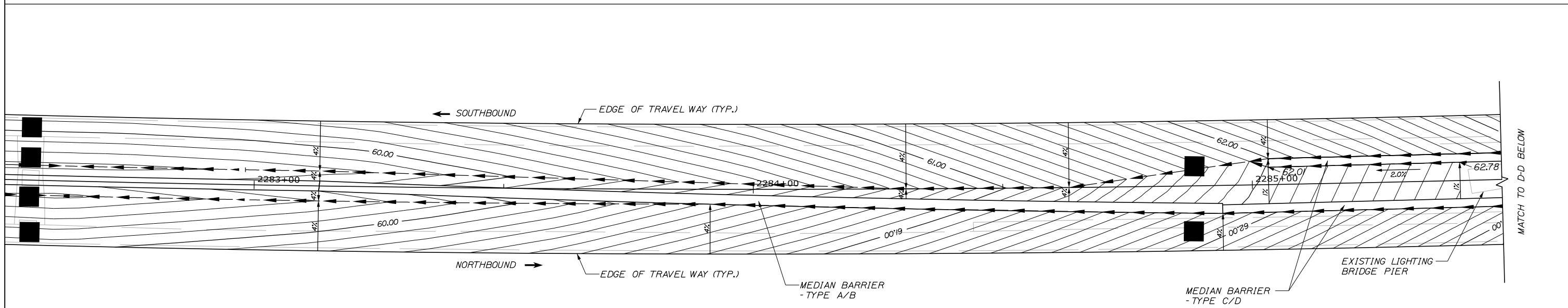
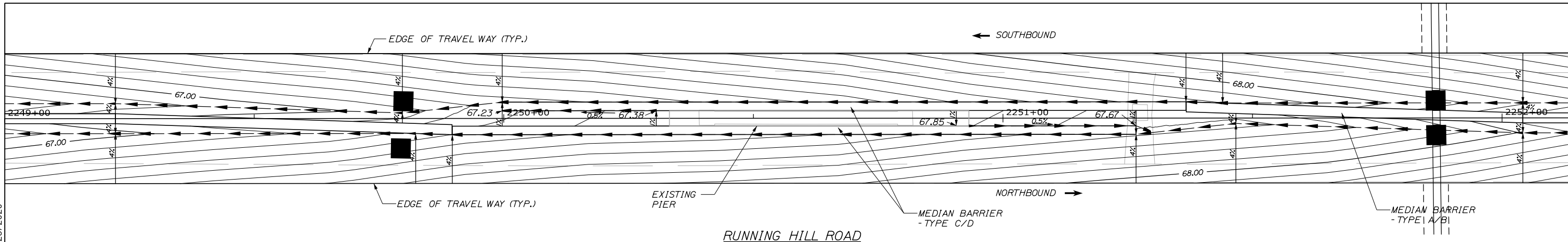
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MEDIAN GRADING DETAILS (2 OF 3)

SHEET NUMBER: CD-09
 45 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	PEK	2/20	SA	SA	2/20
Drawn	WAD	2/20	In Charge of	RAL	2/20

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

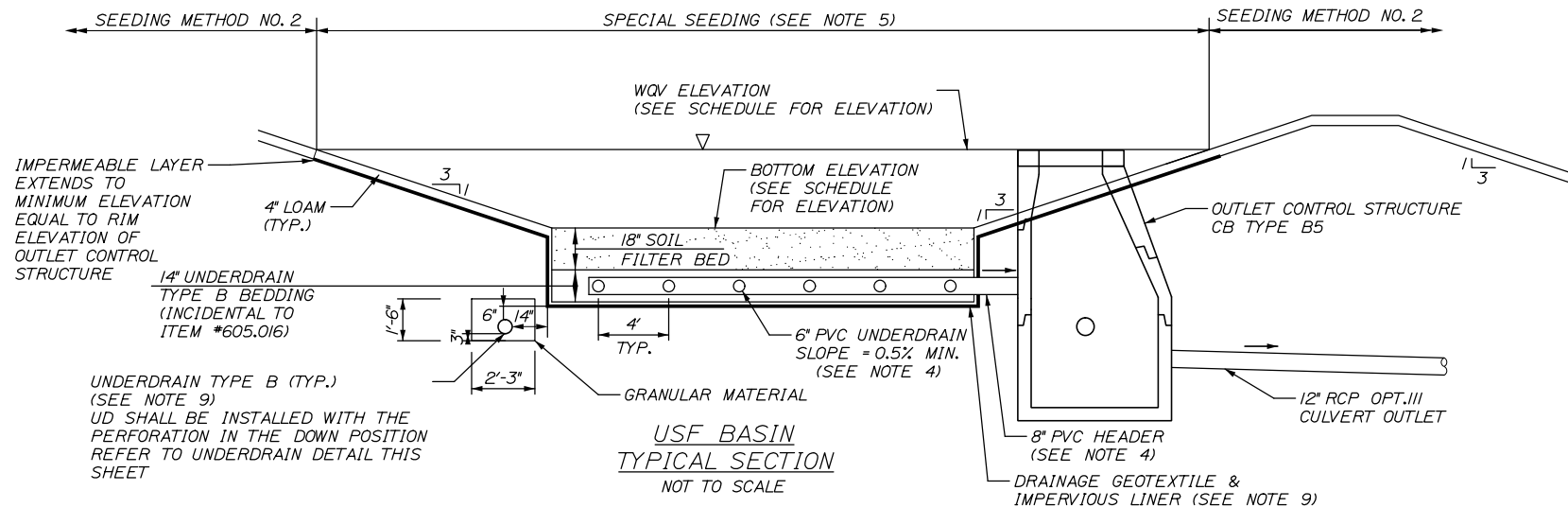
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MEDIAN GRADING DETAILS (3 OF 3)

SHEET NUMBER: CD-10
CONTRACT: 2020.03
46 OF 310

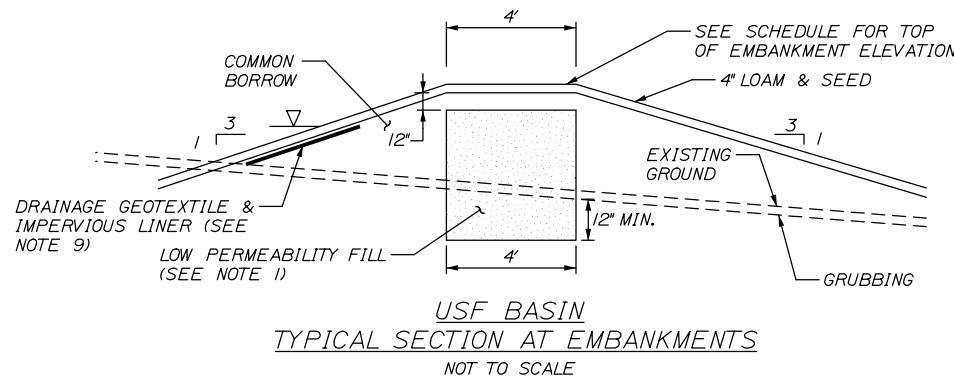
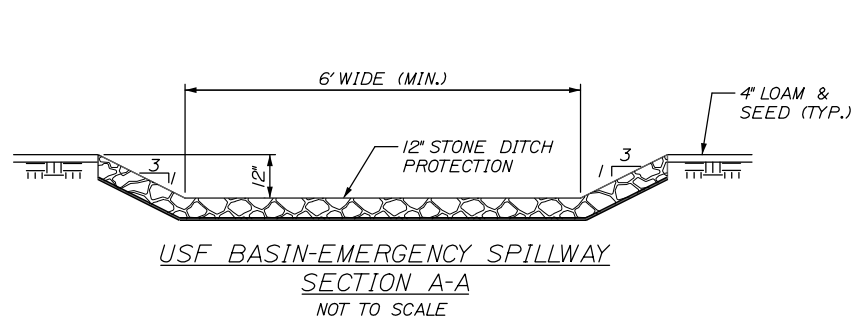
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Date: 2/25/2020

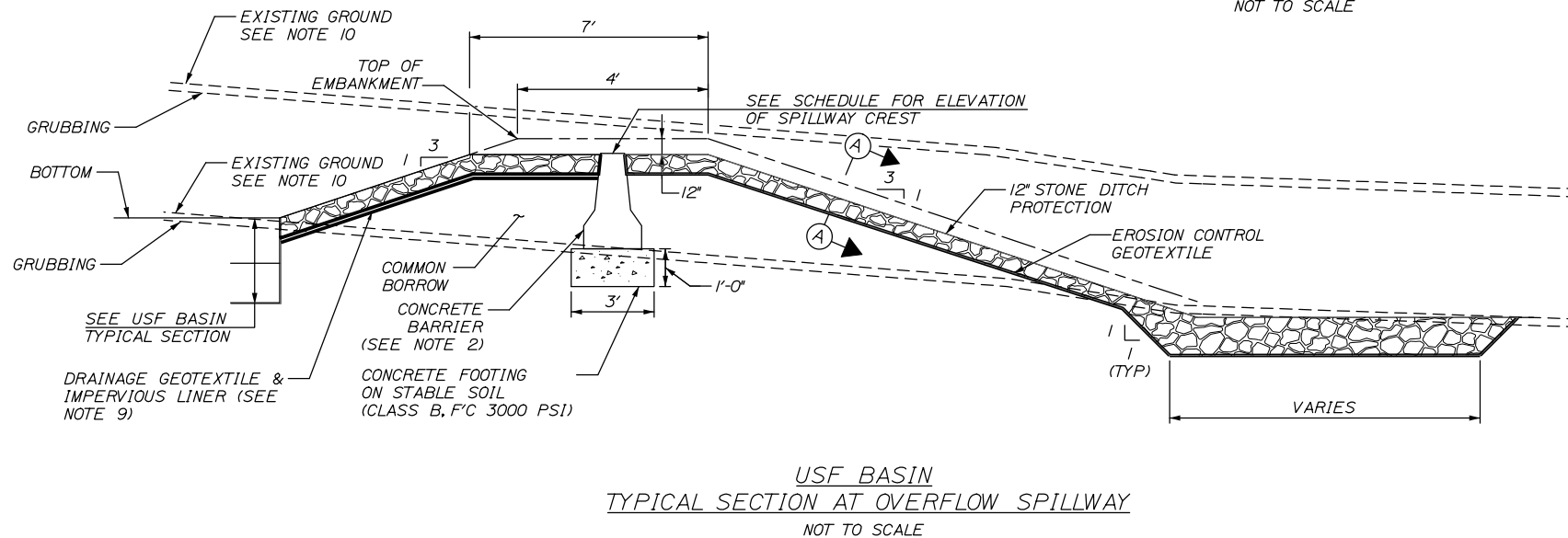


NOTES:

1. AT EMERGENCY SPILLWAY, IMPERMEABLE SOIL (EMBANKMENT CORE) SHALL TIE INTO CONCRETE BARRIER AND EXTEND 3 FEET ALONG EACH END OF CONCRETE BARRIER.
2. SET TOP OF CONCRETE BARRIER LEVEL AT THE DESIGNATED ELEVATION OF SPILLWAY CREST. PAYMENT WILL BE MADE UNDER ITEM 526.307 CONCRETE BARRIER TYPE 1 - STORMWATER FILTER.
3. FOR LAYOUT OF UNDERDRAIN SOIL FILTER (USF BASINS) AND PIPE, SEE BMP PLANS.
4. 8" PVC UNDERDRAIN HEADER/OUTLET SHALL NOT BE SLOTTED.
5. SURFACE OF SOIL FILTER SHALL BE SEEDED WITH WETLAND SEED "NEW ENGLAND EROSION CONTROL/RESTORATION MIX" AS SPECIFIED IN SPECIFICATION SECTION 618. PAYMENT WILL BE MADE UNDER ITEM 618.143 - SPECIAL SEEDING.
6. THE UNDERDRAIN SOIL FILTER SHALL BE CONSTRUCTED TO THE LIMITS AND DETAILS SHOWN ON THE PLANS AND SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE RESIDENT.
7. THE FILTER BED MATERIAL SHALL NOT BE PLACED IN USF BASINS UNTIL THE TRIBUTARY DRAINAGE AREA IS PERMANENTLY STABILIZED AGAINST EROSION.
8. EROSION CONTROL BLANKETS SHALL BE PROVIDED ON ALL USF BASIN EMBANKMENT SLOPES, BOTH INTERIOR AND EXTERIOR AND THE SURFACE OF THE SOIL FILTER.
9. AN IMPERVIOUS LAYER SHALL BE CONSTRUCTED BY INSTALLING AN IMPERVIOUS LINER BETWEEN TWO LAYERS OF DRAINAGE GEOTEXTILE PER SPECIAL PROVISION 620. UNDERDRAIN TYPE B SHALL BE INSTALLED AROUND THE PERIMETER OF THE IMPERVIOUS LAYER. THE UNDERDRAIN SHALL OUTLET TO A STABILIZED RIPRAP APRON OR CATCH BASIN.
10. EXISTING GROUND ELEVATION DEPENDANT ON SPECIFIC USF BASIN LOCATION. BOTH CUT AND FILL OPTIONS SHOWN FOR REFERENCE. SEE BMP PLANS FOR FURTHER INFORMATION.



USF Basin	USF BASIN SCHEDULE						
	Basin Elevations			WQV Elev.	Peak Water Surface Elevation		
	Bottom	Top of Embankment	Spillway Crest		2-year	10-year	25-year
(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	
#1	59.00	62.50	61.10	60.50	60.58	60.88	61.11
#2	58.00	60.90	59.90	59.50	59.39	59.70	59.76
#3	47.00	50.50	49.30	48.50	48.71	48.91	49.05
#4	49.00	51.80	50.80	50.50	49.95	50.59	50.67
#5	45.00	48.00	47.00	46.50	46.57	46.78	46.86
#6	49.00	51.90	50.80	50.50	50.57	50.71	50.76



Filename: PAW1_DR_DET_01.dgn

Scale: NTS

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	BPP	2/20	Checked	PEK	2/20
Drawn	BPP	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

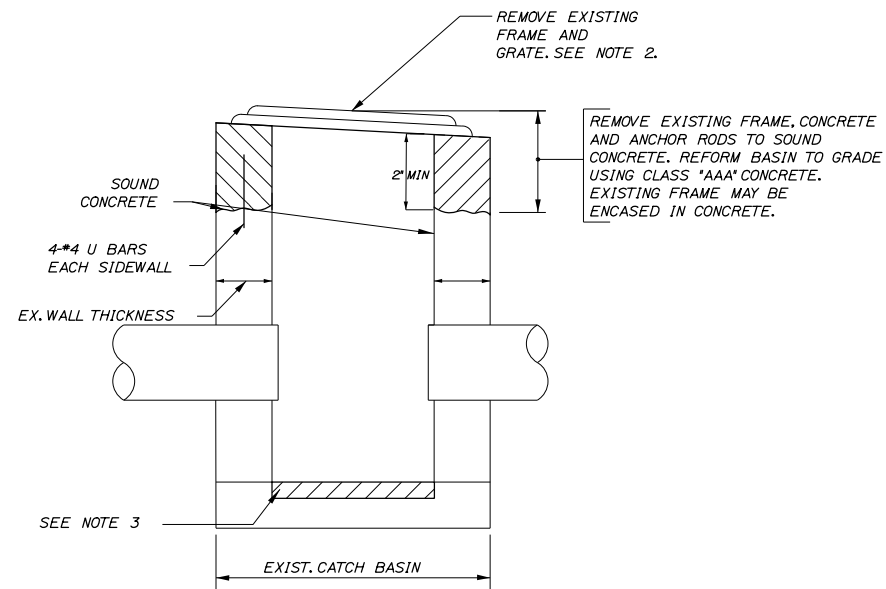
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 DRAINAGE DETAILS (1 OF 3)

SHEET NUMBER: DD-01

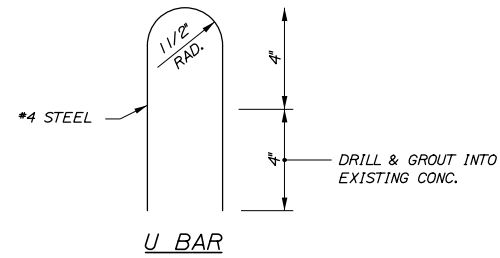
CONTRACT: 2020.03

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Date: 2/25/2020



PLAN VIEW

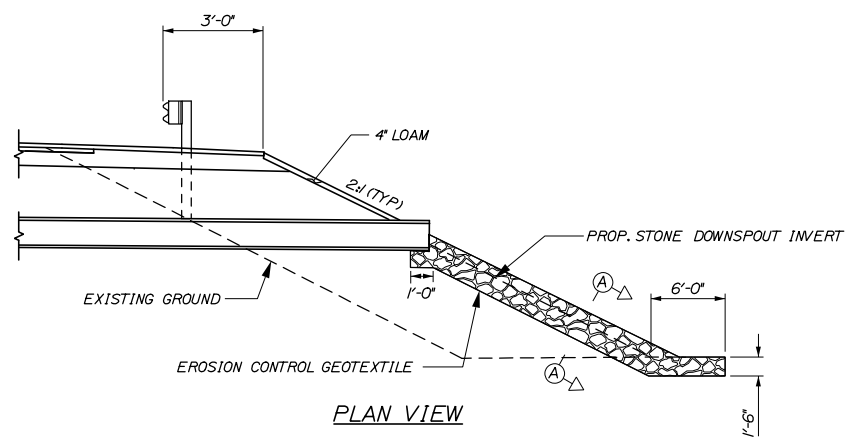


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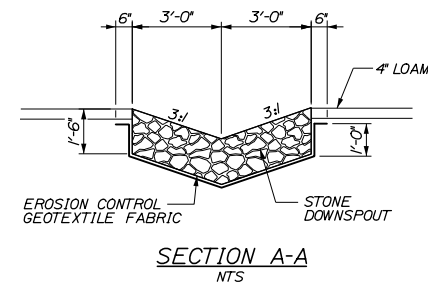
NOTES:

1. ALL EXISTING CATCH BASINS SHALL BE REBUILT WITH THE FRAME AND GRATE SET, AND CONCRETE FINISHED TO THE FINAL PAVEMENT GRADE.
2. RESET EXISTING FRAME AND GRATE. IF ANY FRAMES OR GRATES ARE NOT REUSABLE NEW GRATES OR FRAMES SHALL BE SUPPLIED BY THE CONTRACTOR.
3. REMOVE UNSOUND CONCRETE (2" MIN.) AND REPLACE WITH NEW CONCRETE IF DIRECTED BY THE RESIDENT.

REBUILD CATCH BASIN TO GRADE - TYPE II



PLAN VIEW



SECTION A-A
NTS

NOTES:

1. STONE FOR STONE DOWNSPOUTS SHALL MEET THE REQUIREMENTS OF MAINE DOT SPECIFICATION 703.29 AND WILL BE PAID FOR UNDER ITEM 610.08. PLAIN RIPRAP.
2. CURBING MUST BE IN PLACE PRIOR TO GUARDRAIL INSTALLATION.

1 LF OF DOWNSPOUT= 0.33 CY OF PLAIN RIPRAP
1 LF OF DOWNSPOUT= 1.04 SY OF EROSION CONTROL GEOTEXTILE FABRIC

OUTLET ON SLOPE

Filename: PAW1_DR_DET_02.dgn

Scale: NONE

Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date	By	Date
Designed	BPP	2/20	Checked	PEK	2/20
Drawn	BPP	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

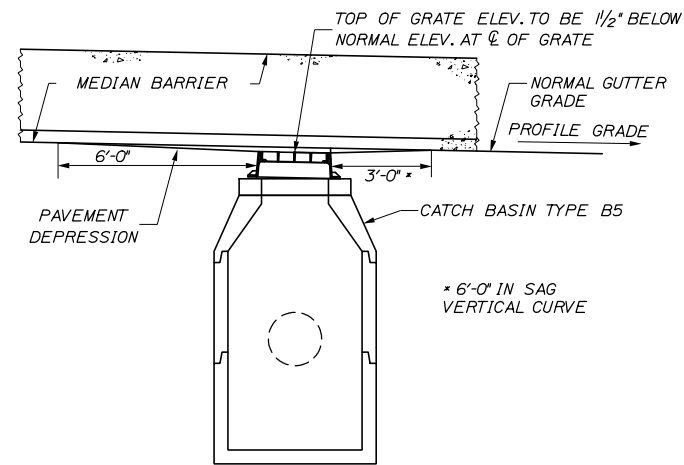
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
DRAINAGE DETAILS (2 OF 3)

SHEET NUMBER: DD-02

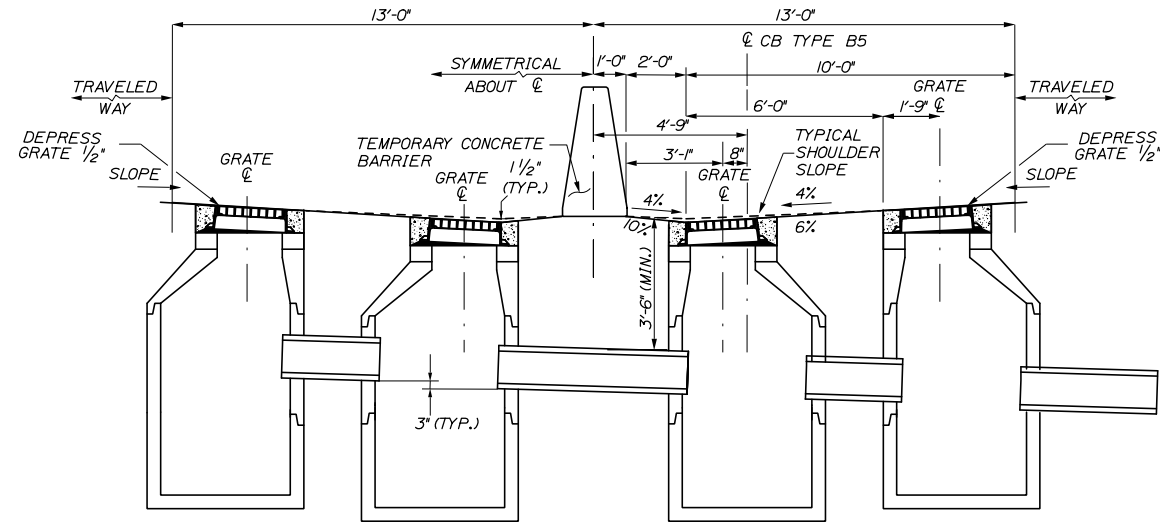
CONTRACT: 2020.03

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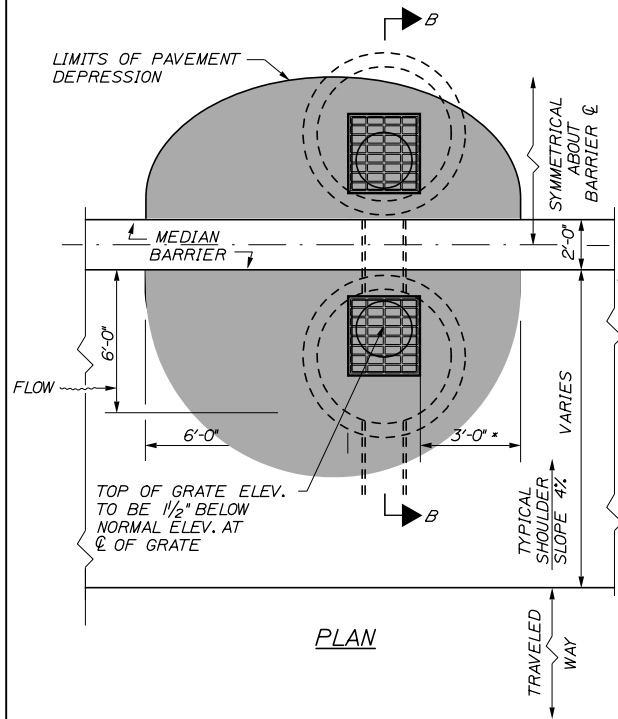
Date: 2/25/2020



ELEVATION

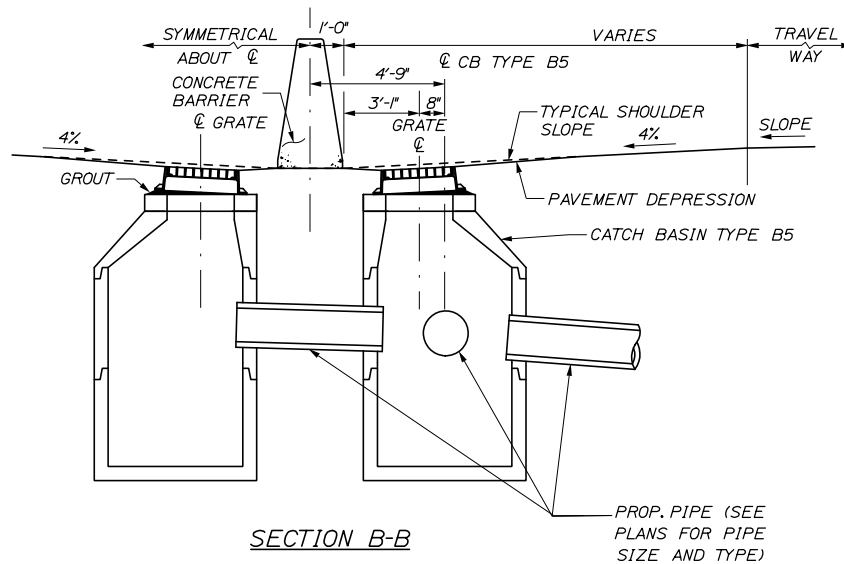


PLACEMENT OF DRAINAGE STRUCTURES
ALONG BARRIER AT LOW POINT
N.T.S.

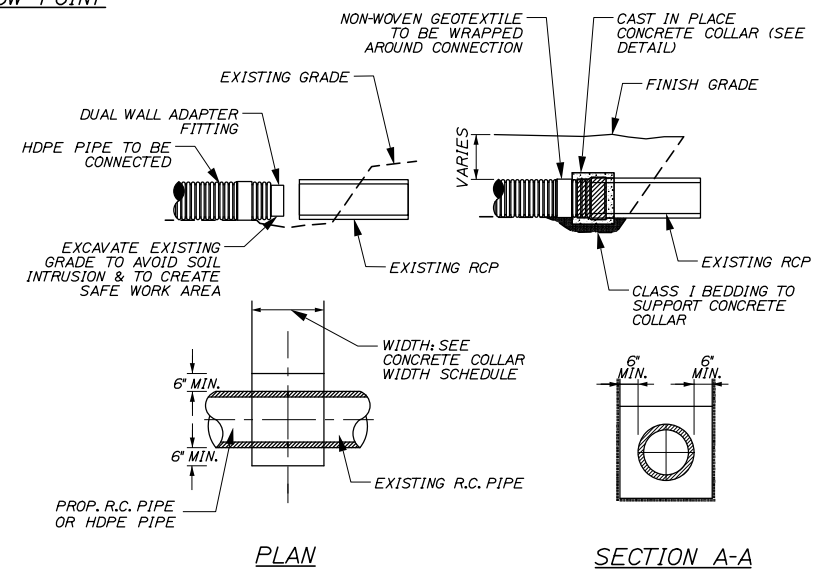


PLAN

PLACEMENT OF DRAINAGE STRUCTURES
ALONG BARRIER
N.T.S.



SECTION B-B



PLAN

SECTION A-A

CONCRETE COLLAR NOTES:

1. CONNECTION AND PIPE TO BE BACKFILLED PER ASTM D2321 (CRUSHED STONE)
2. CONCRETE SHALL BE CLASS A FIBER REINFORCED.
3. SEE CONCRETE COLLAR WIDTH SCHEDULE FOR DIMENSIONS.

CONCRETE COLLAR DETAIL
N.T.S.

CONCRETE COLLAR WIDTH SCHEDULE	
PIPE DIA. (INCHES)	WIDTH OF CONC. (INCHES)
12	24
15	24
18	24
24	24
30	30
36	36
42	48
48	48
54	60

Filename: PAW1_DR_DET_03.dgn

Scale: NONE

Designed by:



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Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
DRAINAGE DETAILS (3 OF 3)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date		By	Date
Designed	BPP	2/20	Checked	PEK	2/20
Drawn	BPP	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

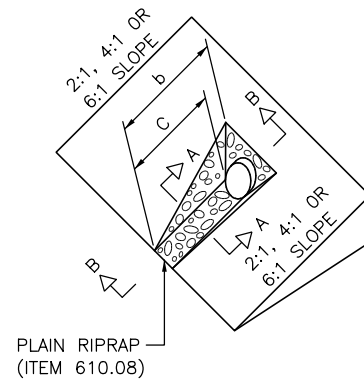
SHEET NUMBER: DD-03

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Date: 2/25/2020

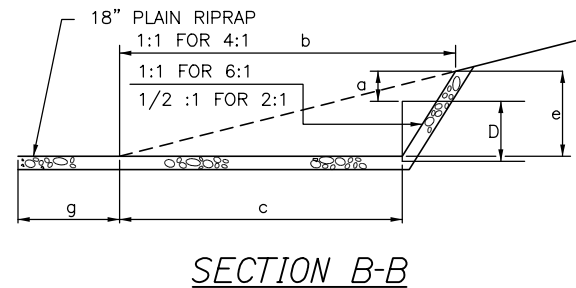
DIMENSIONS FOR SLOPE OF 2:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	1.50	1.30
15"	1.00	4.50	3.37	2.25	6.75	1.63	1.50	1.70
18"	1.00	5.00	3.75	2.50	7.50	2.25	1.50	2.09
21"	1.00	5.50	4.13	2.75	8.25	2.88	1.50	2.58
24"	1.00	6.00	4.50	3.00	9.00	3.50	1.50	3.12
30"	1.00	7.00	5.25	3.50	10.50	4.75	1.50	4.33
36"	1.00	8.00	6.00	4.00	12.00	6.00	1.50	5.75
42"	1.00	9.00	6.75	4.50	13.50	7.25	1.50	7.37
48"	1.00	10.00	7.50	5.00	15.00	8.50	1.50	9.18
54"	1.00	11.00	8.25	5.50	16.50	9.75	1.50	11.19
60"	1.00	12.00	9.00	6.00	18.00	11.00	1.50	13.40
66"	1.00	13.00	9.75	6.50	19.50	12.25	1.50	15.81
72"	1.00	14.00	10.50	7.00	21.00	13.50	1.50	18.41
84"	1.00	16.00	12.00	8.00	24.00	16.00	1.50	24.22



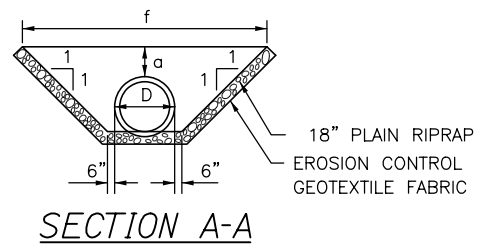
DIMENSIONS FOR SLOPE OF 4:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	8.00	6.00	2.00	6.00	0.00	1.50	2.20
15"	1.00	9.00	6.75	2.25	6.75	0.00	1.50	2.80
18"	1.00	10.00	7.50	2.50	7.50	0.00	1.50	3.40
21"	1.00	11.00	8.25	2.75	8.25	0.00	1.50	4.10
24"	1.00	12.00	9.00	3.00	9.00	0.00	1.50	4.86
30"	1.00	14.00	10.50	3.50	10.50	0.00	1.50	6.58
36"	1.00	16.00	12.00	4.00	12.00	0.00	1.50	8.56
42"	1.00	18.00	13.50	4.50	13.50	0.50	1.50	10.92
48"	1.00	20.00	15.00	5.00	15.00	1.00	1.50	13.57
54"	1.00	22.00	16.50	5.50	16.50	1.50	1.50	16.50
60"	1.00	24.00	18.00	6.00	18.00	2.00	1.50	19.72
66"	1.00	26.00	19.50	6.50	19.50	2.50	1.50	23.22
72"	1.00	28.00	21.00	7.00	21.00	3.00	1.50	27.01
84"	1.00	32.00	24.00	8.00	24.00	4.00	1.50	35.45



DIMENSIONS FOR SLOPE OF 6:1

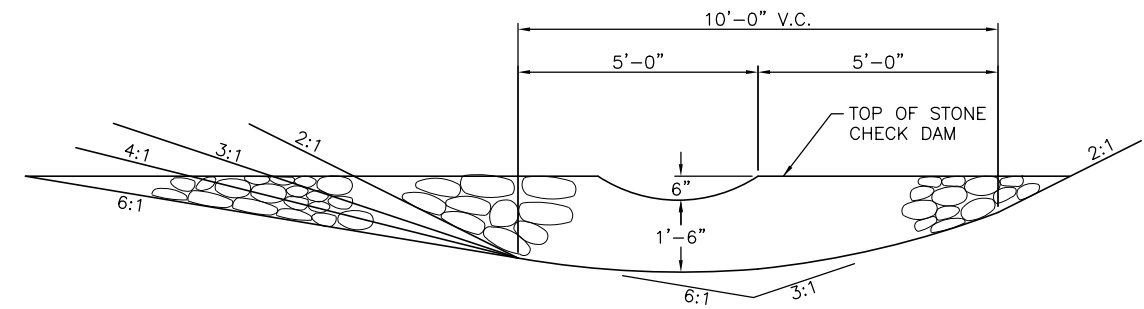
D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	0.50	9.00	7.50	1.50	4.50	0.00	1.50	2.30
15"	0.50	10.50	8.75	1.75	5.50	0.00	1.50	2.93
18"	0.50	12.00	10.00	2.00	6.50	0.00	1.50	3.57
21"	0.50	13.50	11.25	2.25	7.25	0.00	1.50	4.46
24"	0.50	15.00	12.50	2.50	8.00	0.00	1.50	5.44
30"	0.50	18.00	15.00	3.00	9.50	0.00	1.50	7.71
36"	0.50	21.00	17.50	3.50	11.00	0.00	1.50	10.37
42"	0.50	24.00	20.00	4.00	12.50	0.00	1.50	13.42
48"	0.50	27.00	22.50	4.50	14.00	0.00	1.50	16.87
54"	0.50	30.00	25.00	5.00	15.50	0.00	1.50	20.70
60"	0.50	33.00	27.50	5.50	17.00	0.00	1.50	24.93
66"	0.50	36.00	30.00	6.00	18.50	0.00	1.50	29.55
72"	0.50	39.00	32.50	6.50	20.00	0.00	1.50	34.56
84"	0.50	45.00	37.50	7.50	23.00	0.00	1.50	45.76



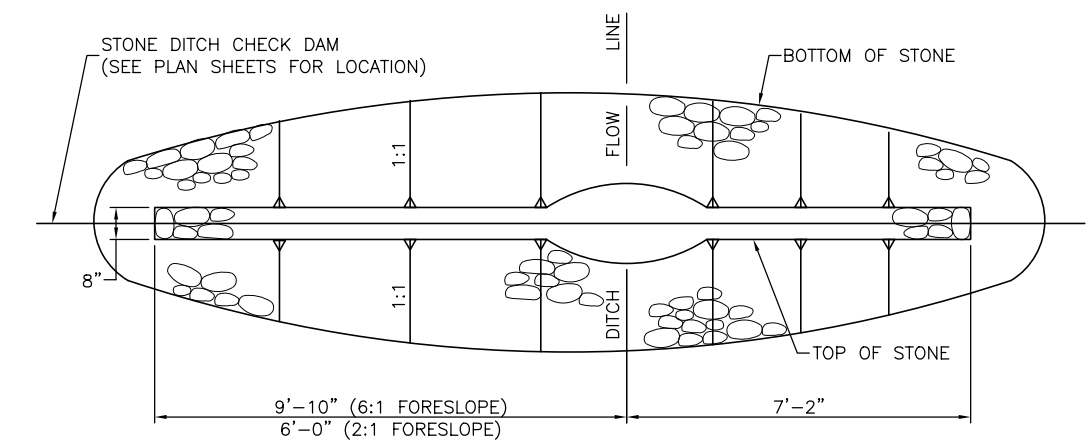
ROADWAY CULVERT END SLOPE TREATMENT

NOTES:

1. THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.
2. STONE QUANTITIES ARE FOR ONE END OF THE PIPE.



SECTION



PLAN

STONE CHECK DAM

1" = 2'-0"

FORESLOPE	BACKSLOPE	QUANTITY C.Y. STONE
6:1	3:1	2.5
4:1	3:1	2.5
3:1	3:1	2.0
2:1	3:1	2.0

NOTES:

1. STONE FOR TEMPORARY AND PERMANENT STONE CHECK DAMS SHALL MEET THE REQUIREMENTS OF MDOT SPECIFICATION 703.29, STONE DITCH PROTECTION.
2. TEMPORARY STONE CHECK DAMS WILL BE PAID FOR UNDER ITEM 610.181.

Filename: PAW1_Erosion Control Details.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
	ALZ	2/20	

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS

MM 43.0 TO MM 46.4

EROSION CONTROL DETAILS (1 OF 2)

SHEET NUMBER: ED-01

CONTRACT: 2020.03

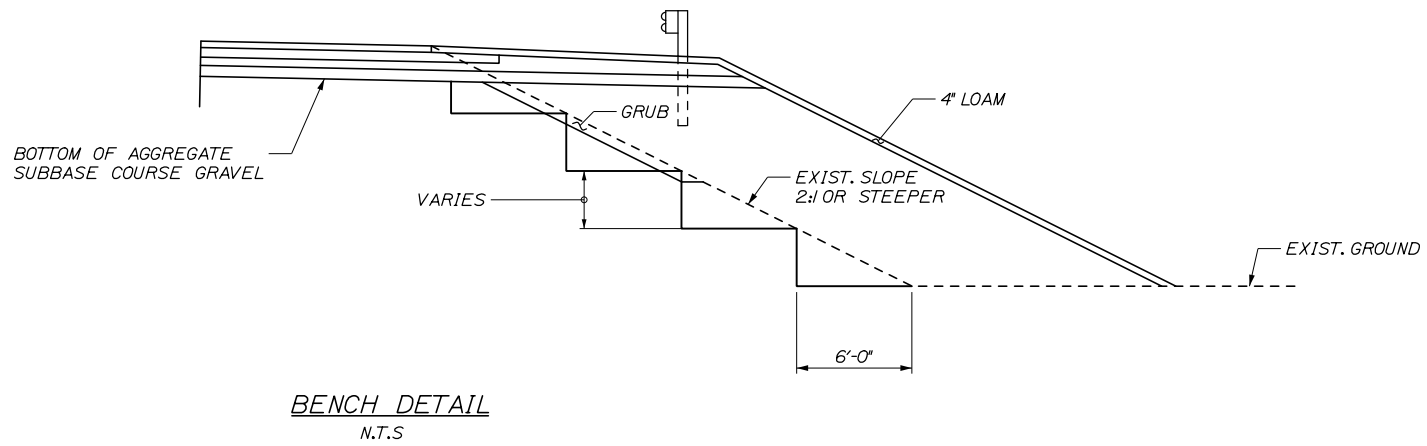
50 OF 310

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

Date: 2/25/2020

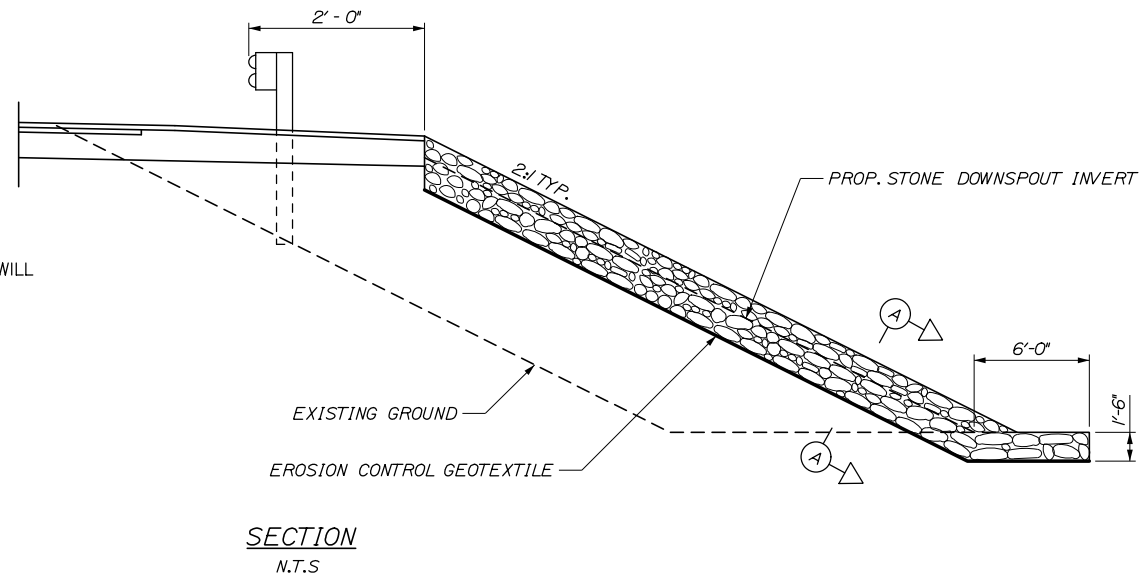
NOTES:

1. GRUBBING WILL BE PAID FOR UNDER ITEM 203.20 COMMON EXCAVATION. SEE CROSS SECTIONS FOR ACTUAL LIMITS.
2. EXCAVATION FOR BENCHING TO RECEIVE EMBANKMENTS IS INCIDENTAL TO ITEM 203.20 COMMON EXCAVATION.
3. BENCHING IS REQUIRED WHERE FILL IS TO BE PLACED ON EXISTING EMBANKMENTS WITH SLOPES 2:1 OR STEEPER.



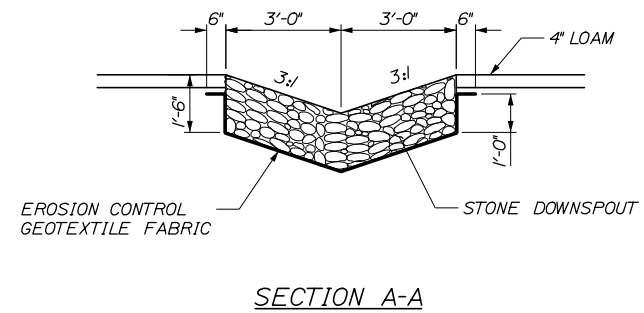
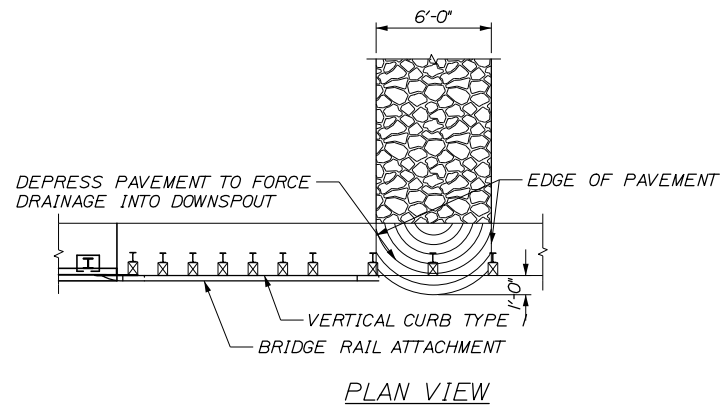
NOTE:

1. STONE FOR STONE DOWNSPOUTS SHALL MEET THE REQUIREMENTS OF MDOT SPECIFICATION 703.29, AND WILL BE PAID UNDER ITEM 610.08, PLAIN RIPRAP.



NOTE:

1. SEE BRIDGE RAIL TRANSITION DETAILS FOR MORE INFORMATION.



1 LF of Downspout = .33 CY of Plain Riprap
 1 LF of Downspout = 1.04 SY of Erosion Control Geotextile Fabric

DOWNSPOUT DETAILS
N.T.S.

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date		By	Date
Designed	ALZ	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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

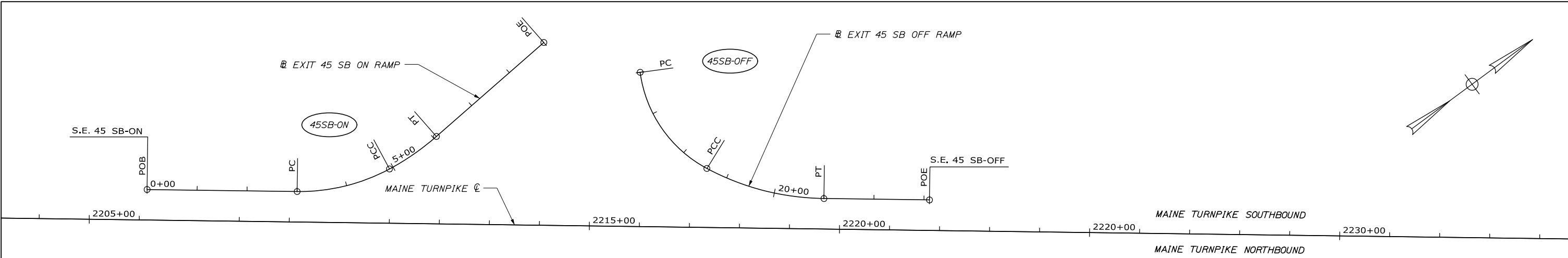
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 EROSION CONTROL DETAILS (2 OF 2)

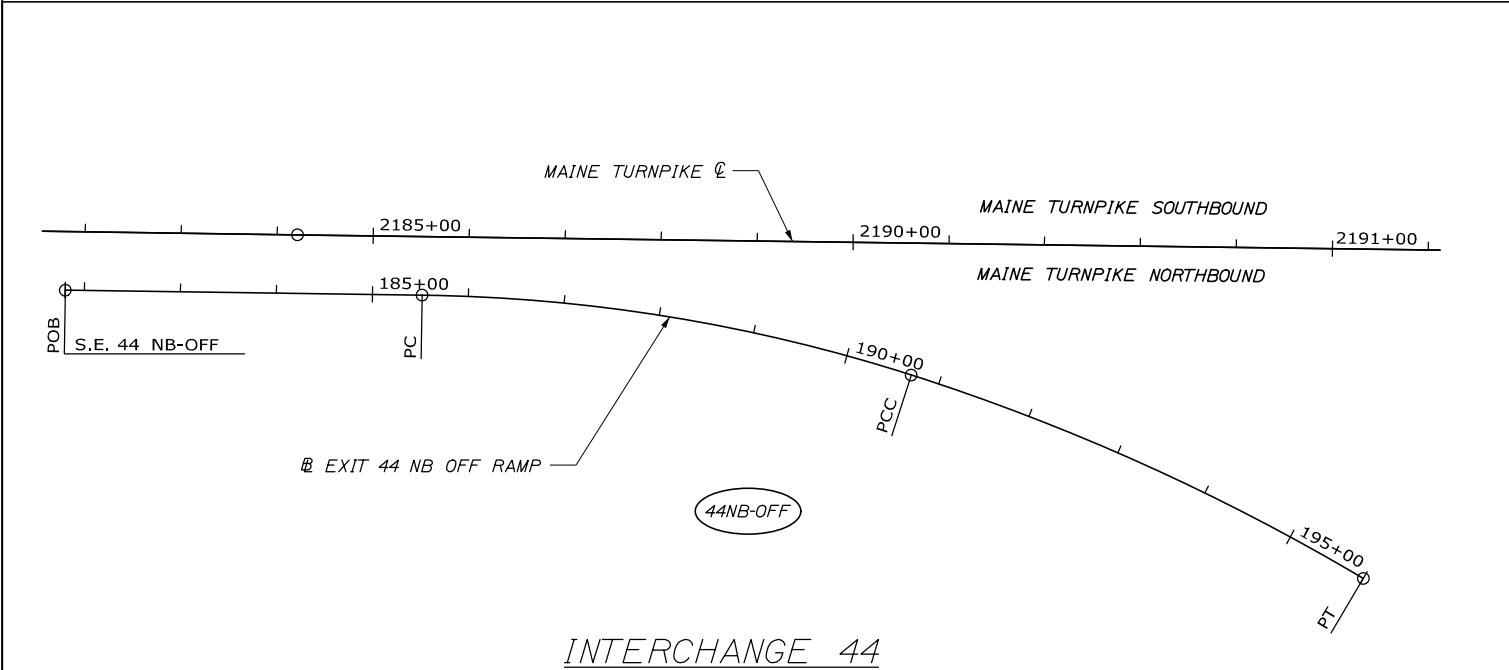
SHEET NUMBER: ED-02
 CONTRACT: 2020.03
 51 OF 310

Filename: PAW1_Erosion Control Details 2.dgn

Date: 2/25/2020



INTERCHANGE 45



INTERCHANGE 44

STATION EQUATIONS

S.E. 45 NB-ON STA. 38+32.10 \bar{E} =
 STA. 2233+91.91 MAINE TURNPIKE \bar{C} , 61.00' RT.

S.E. 45 SB-OFF STA. 23+10.93 EXIT 45 SB OFF RAMP \bar{E} =
 STA. 2221+79.03 MAINE TURNPIKE \bar{C} , 61.00' LT.

S.E. 45 SB-ON STA. 0+00.00 EXIT 45 SB ON RAMP \bar{E} =
 STA. 2206+14.94 MAINE TURNPIKE \bar{C} , 61.00' LT.

45 NB ON RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	30+62.93								291249.9981	2906215.5421
PI	31+78.88	17°26'23.9" RT.	7°34'43.7"	756.00	115.95	230.12	8.84		291358.5223	2906174.7025
PCC	32+93.05								291474.2977	2906168.2657
PI	34.53.22	40°25'49.3" RT.	13°10'17.2"	435.00	160.18	306.95	28.55		291634.2304	2906159.3739
PT	36+00.00							N 37°14'53.3" E	291761.7369	2906256.3256
POE	38+32.10								291946.4937	2906396.8084

45 SB OFF RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	16+31.21								290741.6739	2905016.7133
PI	17+44.67	54°21'44.8" LT.	22°22'52.2"	256.00	131.46	242.89	31.78		290678.1346	2905131.7981
PCC	18+56.10								290734.6448	2905250.4925
PI	19+80.41	27°17'34.3" LT.	11°11'26.1"	512.00	124.31	243.89	14.87		290788.0792	2905362.7267
PT	21+00.00							N 37°14'53.3" E	290887.0287	2905437.9646
POE	23+10.93								291054.9394	2905565.6382

45 SB ON RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
POB	0+00.00							N 37°14'53.3" E	289809.8927	2904618.9464
PC	3+00.00								290048.7018	2904800.5289
PI	3+98.15	28°57'51.1" LT.	15°04'40.2"	380.00	98.15	192.10	12.47		290126.8298	2904859.9348
PCC	4+92.10								290223.9538	2904874.0759
PI	5+49.53	12°58'29.2" LT.	11°20'44.5"	505.00	57.42	114.36	3.25		290280.7796	2904882.3496
PT	6+06.46							N 4°41'27.1" W	290338.0122	2904877.6534
POE	8+91.69								290622.2831	2904854.3278

STATION EQUATIONS

S.E. 44 NB-OFF STA. 181+80.00 EXIT 44 NB OFF RAMP \bar{E} =
 STA. 2181+80.00 MAINE TURNPIKE \bar{C} , 61.00' RT

44 NB OFF RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
POB	181+80.00							N 37°16'51.7" E	287798.5874	2903242.7056
PC	185+51.71	16°57'54.4" RT.	3°16'26.6"	1750.00	260.99	518.17	19.36		288094.3466	2903467.8590
PI	188+12.70								288302.0133	2903625.9500
PCC	190+69.88	12°55'29.8" RT.	2°29'50.3"	2294.30	259.88	517.55	14.67		288454.5135	2903837.7562
PI	193+29.76								288606.3627	2904048.6582
PT	195+87.43							N 54°14'46.1" E	288707.1913	2904288.1815

Scale: 100 0 100 200
 Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	CAV	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

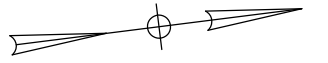
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

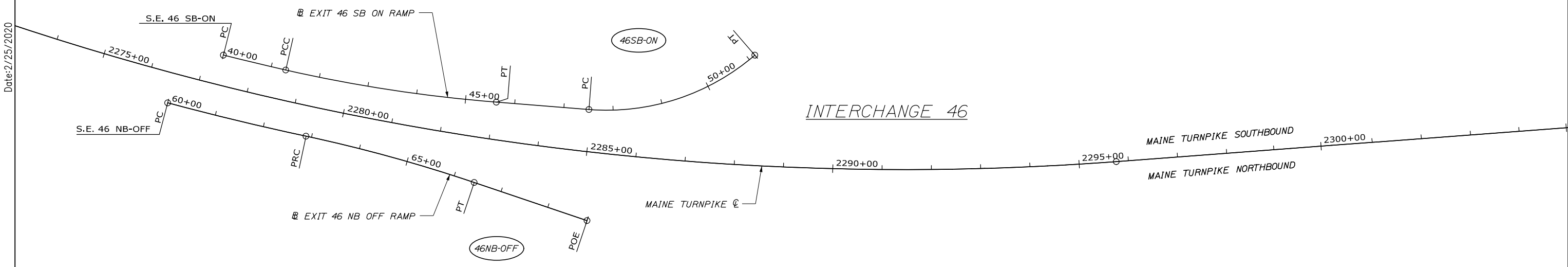
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 GEOMETRIC PLAN (1 OF 2)

SHEET NUMBER: GP-01
 CONTRACT: 2020.03
 52 OF 310

Filename: PAW1_GP_Plan_01.dgn



Date: 2/25/2020



INTERCHANGE 46

STATION EQUATIONS

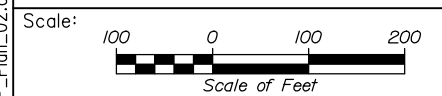
S.E. 46 NB-OFF STA. 60+00.00 \bar{R} =
 STA. 2276+50.00 MAINE TURNPIKE \bar{C} , 61.00' RT.

S.E. 46 SB-ON STA. 40+00.00 \bar{R} =
 STA. 2277+35.00 MAINE TURNPIKE \bar{C} , 61.00' LT.

46 NB OFF RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	60+00.00								295456.2821	2908813.3297
PI	61+44.26	2°51'15.1" LT.	0°59'22.1"	5790.58	144.26	288.46	1.80		295589.9267	2908867.6428
PRC	62+88.46								295726.1100	2908915.2337
PI	64+65.63	6°31'53.9" RT.	1°50'43.0"	3105.00	177.17	353.97	5.05		295893.3654	2908973.6852
PT	66+42.43							N 25°47'41.55" E	296052.8861	2909050.7830
POE	68+83.96								296270.3565	2909155.8882

46 SB ON RAMP										
POINT	STATION	Δ	D	R	T	L	E	BEARING	NORTHING	EASTING
PC	40+00.00								295580.3545	2908731.3871
PI	40+65.02	1°18'51.3" LT.	1°00'38.7"	5668.58	65.02	130.03	0.37		295640.9430	2908754.9702
PCC	41+30.03								295702.0565	2908777.1575
PI	43+46.63	8°15'33.4" LT.	1°54'35.5"	3000.00	216.60	432.46	7.81		295905.6568	2908851.0748
PT	45+62.48							N 11°41'39.04" E	296117.7637	2908894.9775
PC	47+50.85								296302.2244	2908933.1580
PI	49+42.65	45°16'04.7" LT.	12°27'20.2"	460.00	191.80	363.43	38.38		296490.0431	2908972.0334
PT	51+14.29							N 33°34'25.70" W	296649.8458	2908865.9661

Filename: PAW1_GP_Plan_02.dgn



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	CAV	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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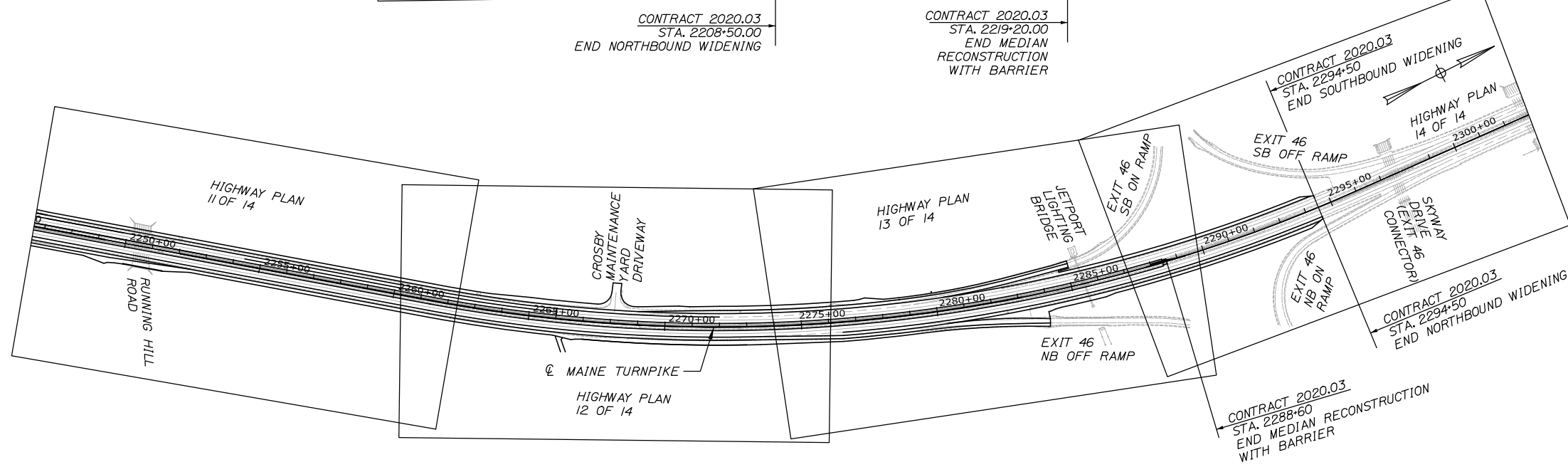
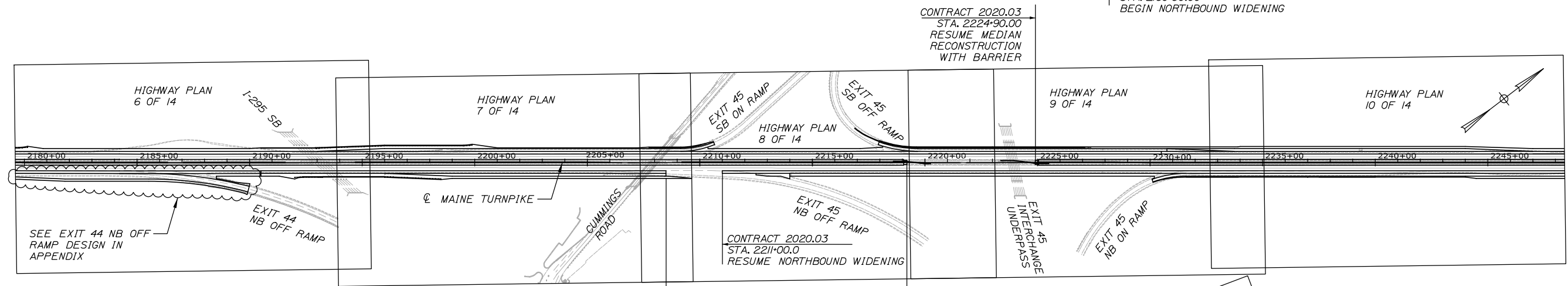
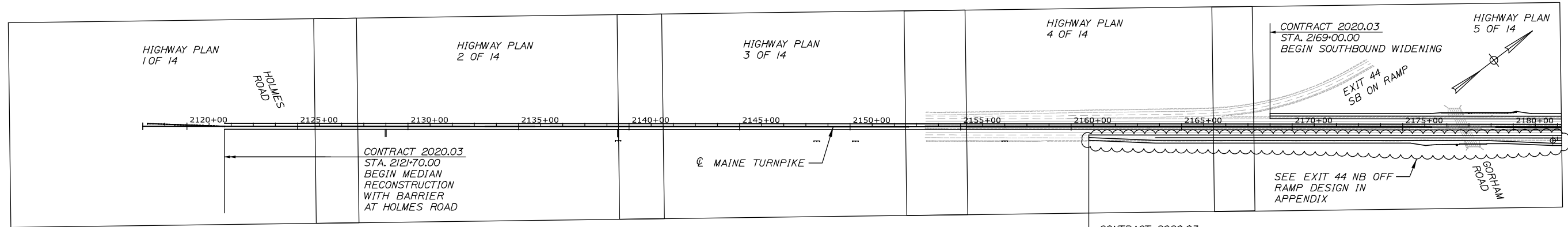
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

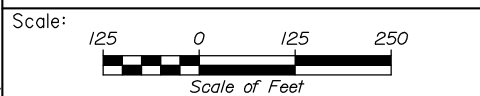
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
GEOMETRIC PLAN (2 OF 2)

SHEET NUMBER: GP-02
CONTRACT: 2020.03
53 OF 310

Date: 2/26/2020



Filename: PAW1_Key_Plan_01.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	ALZ	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

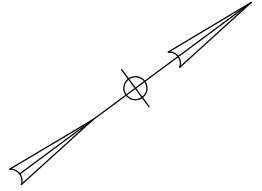
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 KEY PLAN

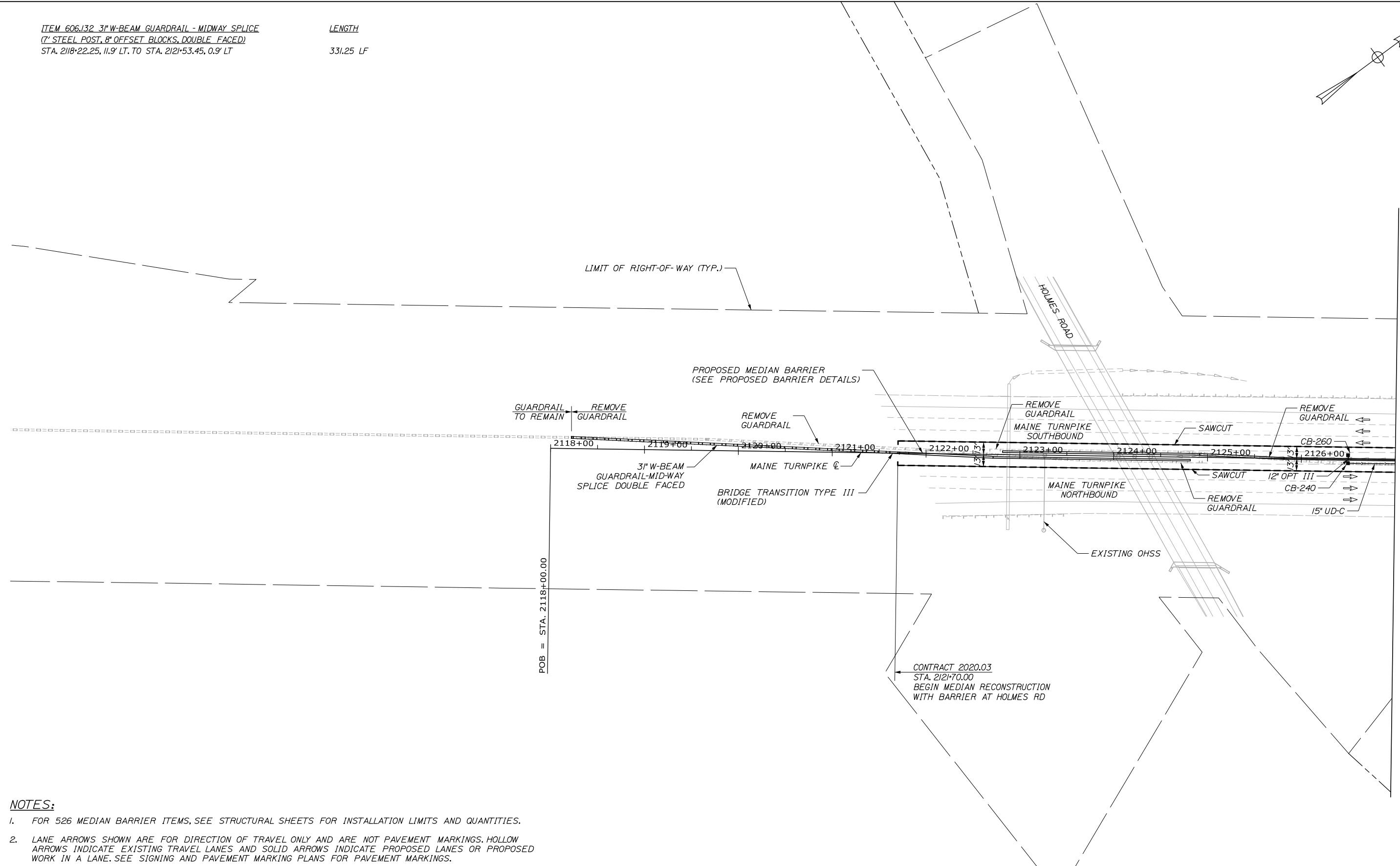
SHEET NUMBER: KP-01
 CONTRACT: 2020.03
 54 OF 310

ITEM 606.132 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
 (7' STEEL POST, 8" OFFSET BLOCKS, DOUBLE FACED)
 STA. 2118+22.25, 11.9' LT. TO STA. 2121+53.45, 0.9' LT

LENGTH
 331.25 LF

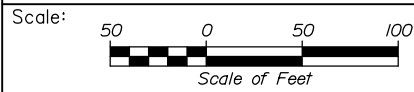


Date: 2/25/2020



NOTES:

1. FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
2. LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (1 OF 14)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

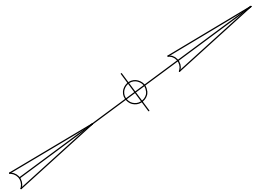
CONTRACT: 2020.03

SHEET NUMBER: HP-01

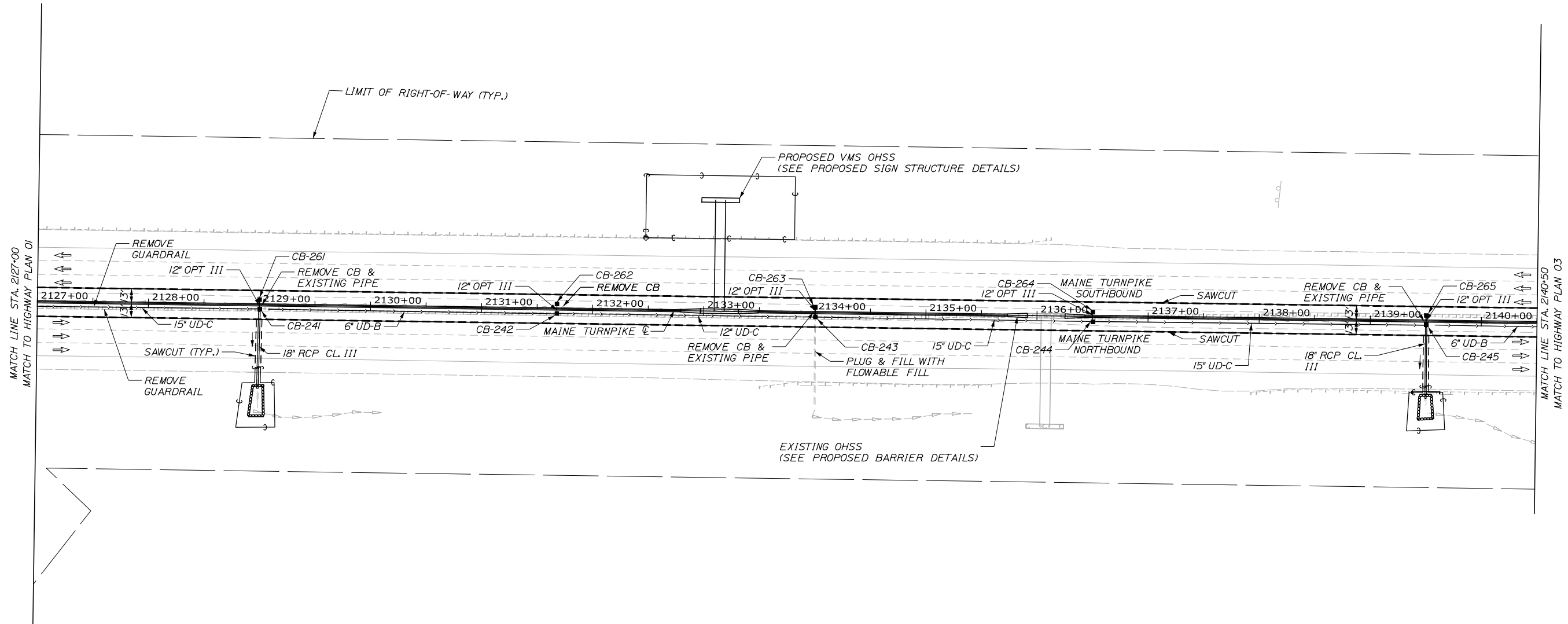
55 OF 310

Filename: PAW1_HP_Plan_01.dgn

ITEM 606.3605 GUARDRAIL - REMOVE, MODIFY AND RESET SINGLE RAIL LF 25
 STA. 2139+50.00, 70.1' RT
 ITEM 610.08 PLAIN RIPRAP CY 19
 STA. 2129+00.00, 83.0' RT
 STA. 2139+50.00, 83.0' RT 15



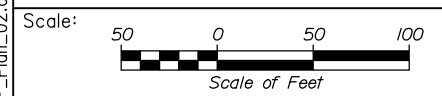
Date: 2/25/2020



NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
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Filename: PAW1_HP_Plan_02.dgn



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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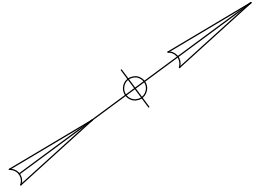
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

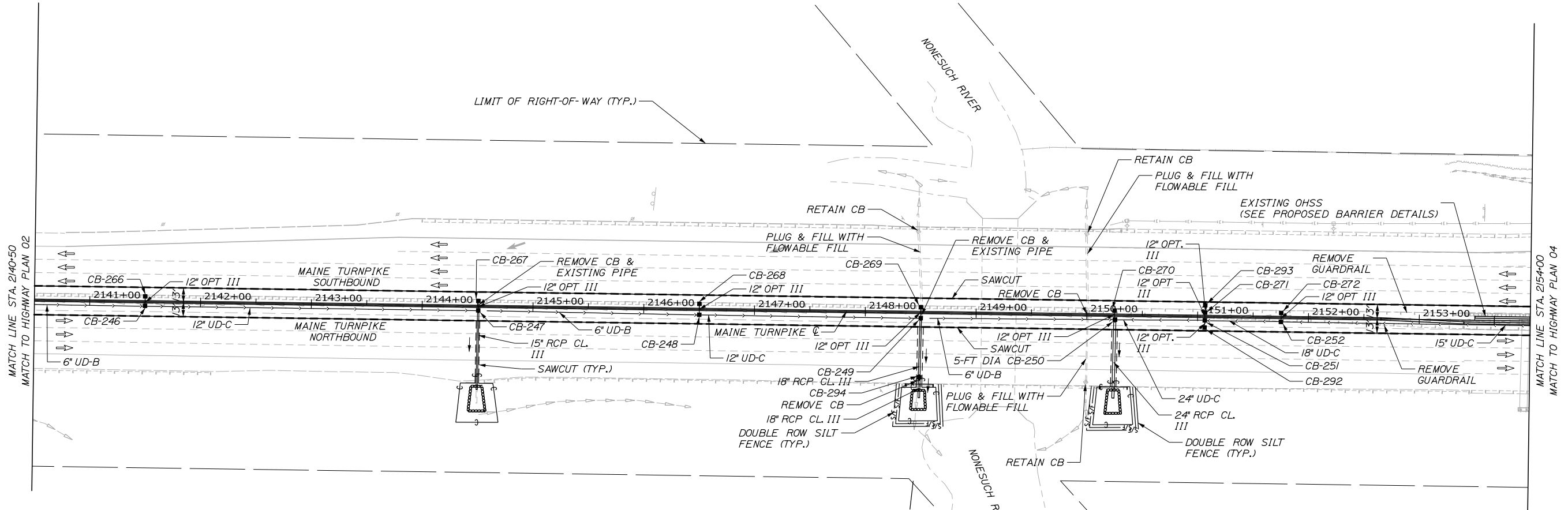
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (2 OF 14)

SHEET NUMBER: HP-02
 CONTRACT: 2020.03
 56 OF 310

ITEM 606.3605 GUARDRAIL - REMOVE, MODIFY AND RESET SINGLE RAIL	LF
STA. 2148+50.00, 71.3' RT	25
STA. 2150+24.00, 71.3' RT	25
ITEM 610.08 PLAIN RIPRAP	CY
STA. 2144+50.00, 83.0' RT	17
STA. 2148+50.00, 83.0' RT	14
STA. 2150+24.00, 83.0' RT	16
ITEM 656.632 30 INCH TEMPORARY SILT FENCE	LF
STA. 2148+30, 64' RT. TO STA. 2148+70, 64' RT.	215
STA. 2150+05, 64' RT. TO STA. 2150+45, 64' RT.	215

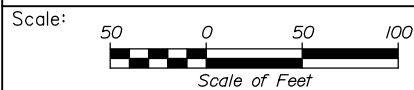


Date: 2/25/2020



NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (3 OF 14)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
Designed	By	Date	Checked	By	Date
	JS	2/20		TRS	2/20
Drawn	By	Date	In Charge of	By	Date
	GW	2/20		RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: HP-03

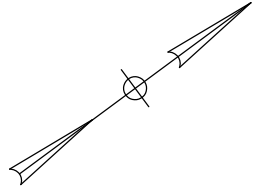
57 OF 310

Filename: PAW1_HP_Plan_03.dgn

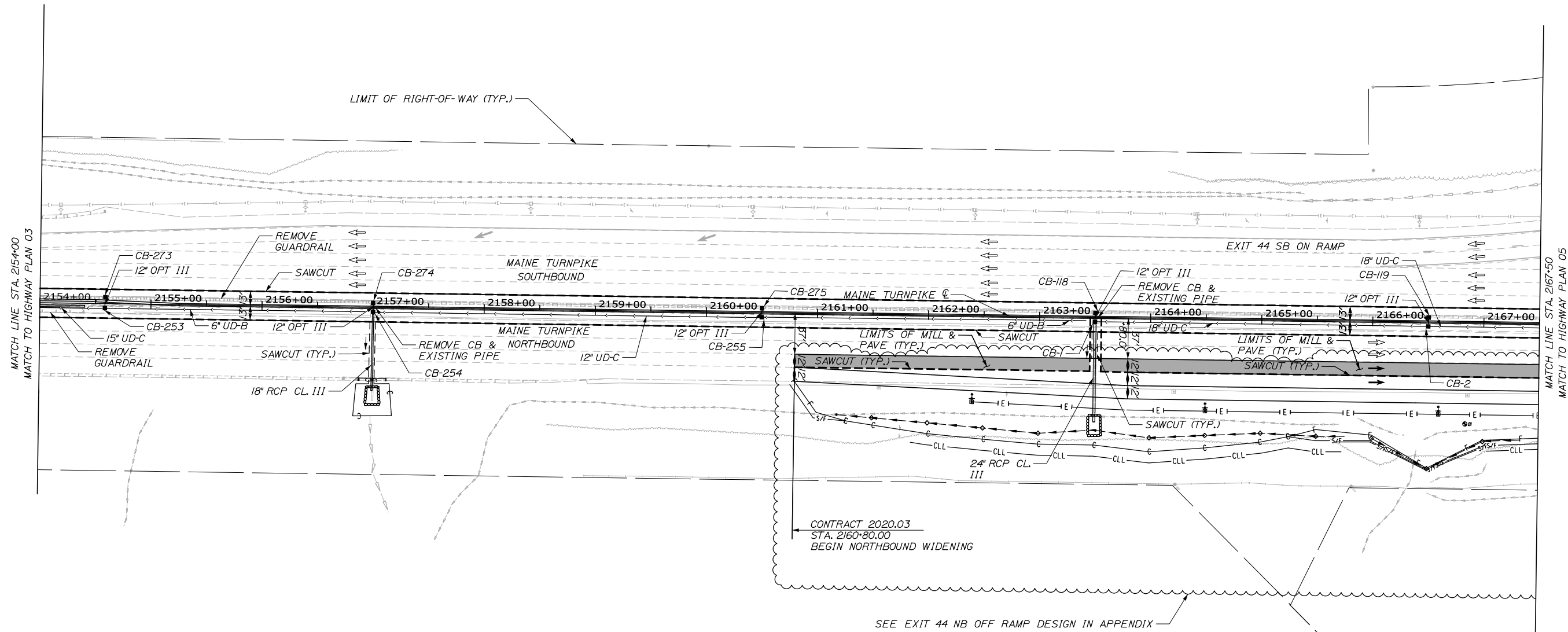
ITEM 606.3605 GUARDRAIL - REMOVE, MODIFY AND RESET SINGLE RAIL LE
 STA. 2157+00.00, 70.6' RT 25

ITEM 610.08 PLAIN RIPRAP CY
 STA. 2157+00.00, 75.0' RT 12
 STA. 2163+50.00, 90.0' RT 13

SEE 44 NB OFF RAMP DESIGN IN APPENDIX FOR ADDITIONAL QUANTITIES (WITHIN BUBBLED AREA)



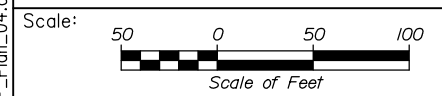
Date: 2/25/2020



NOTES:

1. THE QUANTITIES LISTED ON THIS SHEET DO NOT INCLUDE QUANTITIES FOR EXIT 44 NB OFF RAMP.
2. FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
3. LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.

Filename: PAW1_HP_Plan_04.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
HIGHWAY PLAN (4 OF 14)

SHEET NUMBER: HP-04
CONTRACT: 2020.03
58 OF 310

ITEM 201.11 CLEARING
 STA. 2170+99, 105' LT. TO STA. 2175+80, 127' LT.
 STA. 2176+07, 128' LT. TO STA. 2176+58, 78' LT.
 STA. 2177+70, 82' LT. TO STA. 2186+06, 123' LT.

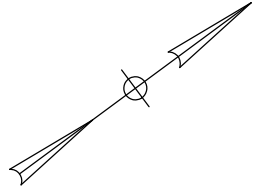
ITEM 606.1301 31"W-BEAM GUARDRAIL - MIDWAY SPLICE
 (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 2178+02.50, 63.0' LT. TO STA. 2179+75, 63.0' LT.

ITEM 606.1305 31"W-BEAM GUARDRAIL - MIDWAY SPLICE
 MFLEAT TERMINAL (31" HEIGHT)
 STA. 2179+75, 63.0' LT.

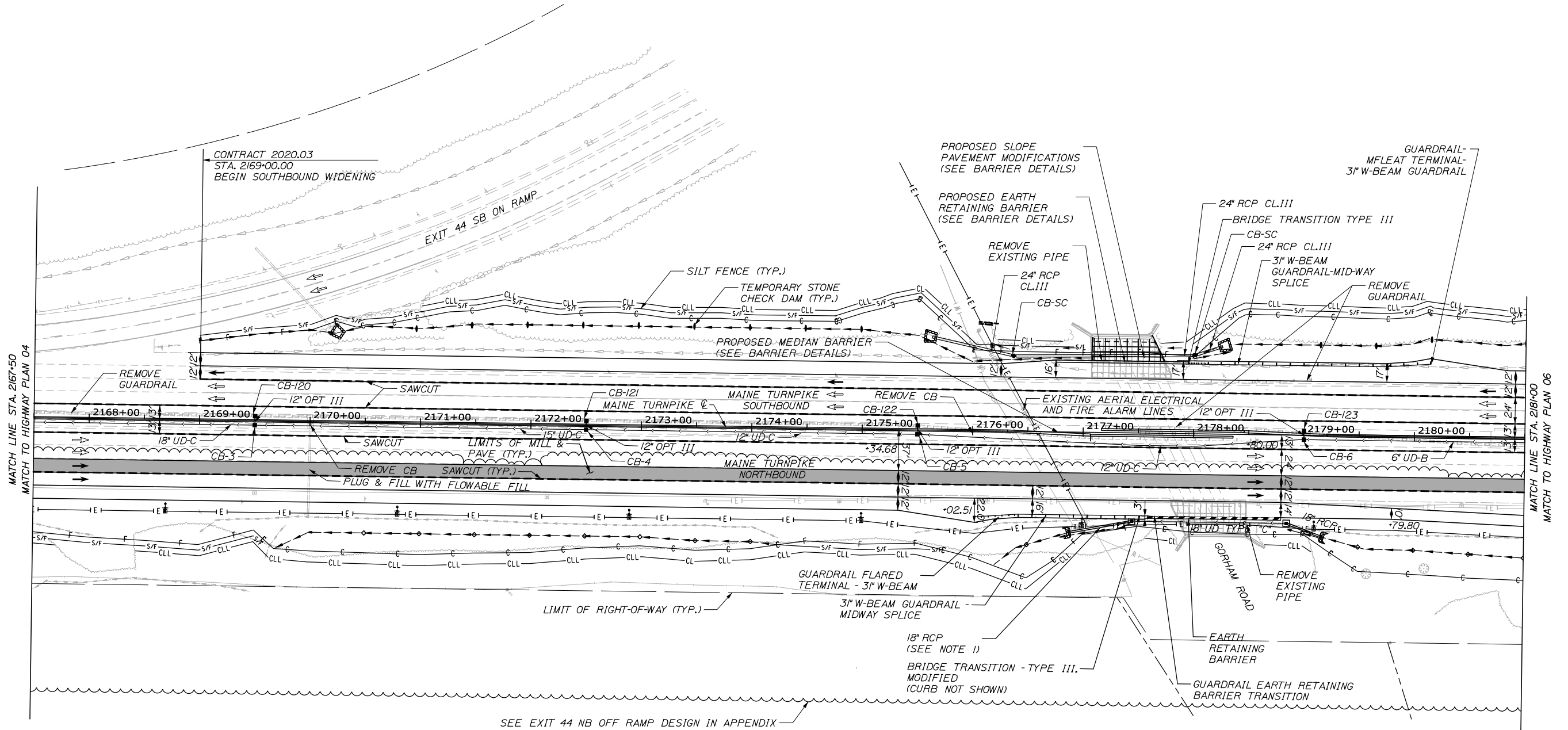
ITEM 610.08 PLAIN RIPRAP
 STA. 2176+70.00, 91.0' RT
 STA. 2179+20.00, 91.0' RT
 STA. 2175+60.00, 81.0' LT
 STA. 2178+25.00, 75.0' LT
 STA. 2170+25.00, 74.0' LT

ITEM 656.632 30 INCH TEMPORARY SILT FENCE
 STA. 2169+00, 77' LT. TO STA. 2177+00, 77' LT.
 STA. 2177+99, 81' LT. TO STA. 2191+68, 79' LT.

SEE 44 NB OFF RAMP DESIGN IN APPENDIX FOR ADDITIONAL QUANTITIES
 (WITHIN BUBBLED AREA)



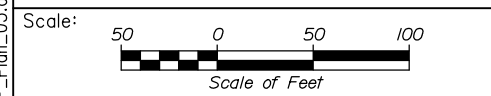
Date: 2/25/2020



NOTES:

1. THE QUANTITIES LISTED ON THIS SHEET DO NOT INCLUDE QUANTITIES FOR EXIT 44 NB OFF RAMP.
2. FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
3. LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.

Filename: PAW1_HP_Plan_05.dgn



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (5 OF 14)

SHEET NUMBER: HP-05
 59 OF 310

CONTRACT: 2020.03

ITEM 201.11 CLEARING
 STA. 2188+14, 120' LT. TO STA. 2190+09, 108' LT.
 STA. 2190+50, 106' LT. TO STA. 2191+71, 84' LT.
 STA. 2192+96, 86' LT. TO STA. 2201+23, 147' LT.
 STA. 2193+22, 115' RT. TO STA. 2194+13, 124' RT.
 STA. 2194+36, 74' RT. TO STA. 2196+70, 115' RT.

ITEM 606.1301 3"W-BEAM GUARDRAIL - MIDWAY SPLICE
 (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 2193+10.40, 63.34' LT. TO STA. 2199+50, 73.0' LT.
 STA. 2192+39.79, 63.0' RT. TO STA. 2193+06.83, 63.0' RT.

ITEM 606.1305 3"W-BEAM GUARDRAIL - MIDWAY SPLICE
 MFLAAT TERMINAL (3" HEIGHT)
 STA. 2191+99.84, 66.02' RT.

ITEM 610.08 PLAIN RIPRAP
 STA. 2192+70.00, 80.0' RT.
 STA. 2193+05.00, 80.0' RT.
 STA. 2193+20.00, 93.0' LT.
 STA. 2190+55.00, 70.0' LT.

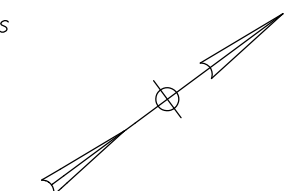
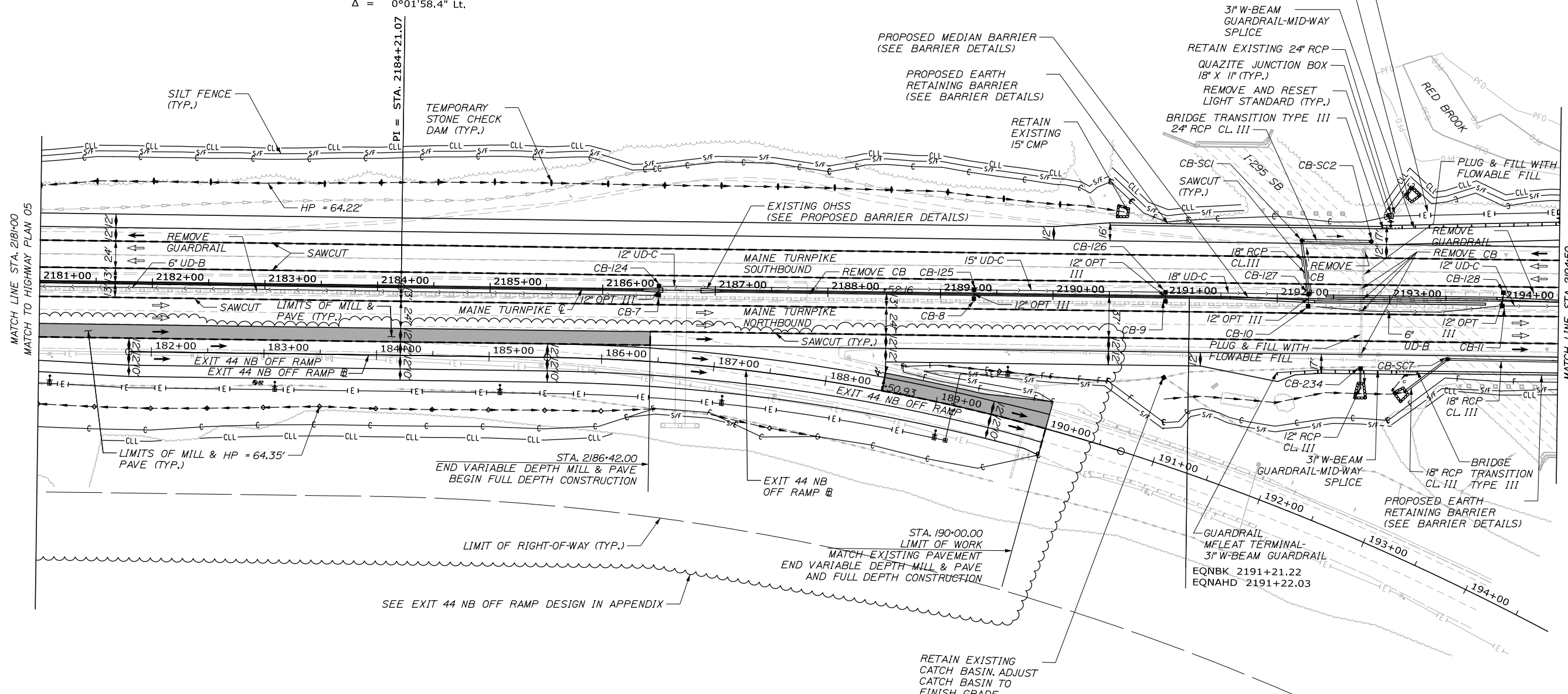
ITEM 656.632 30 INCH TEMPORARY SILT FENCE
 STA. 2192+94, 77' LT. TO STA. 2196+60, 90' LT.
 STA. 2190+47, 80' RT. TO STA. 2197+98, 120' RT.

ITEM 626.32 24 INCH FOUNDATION
 STA. 2193+00.00, 69.42' LT.
 STA. 2194+50.00, 74.42' LT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 2193+00.00, 69.42' LT.
 STA. 2194+50.00, 74.42' LT.

SEE 44 NB OFF RAMP DESIGN IN APPENDIX FOR ADDITIONAL QUANTITIES (WITHIN BUBBLED AREA)

MAINE TURNPIKE
 CURVE DATA #1
 PI = 2184+21.07
 Δ = 0°01'58.4" Lt.



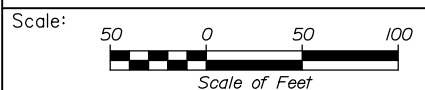
Date: 2/25/2020

MATCH LINE STA. 2181+00
MATCH TO HIGHWAY PLAN 05

MATCH LINE STA. 2194+50
MATCH TO HIGHWAY PLAN 07

NOTES:

- THE QUANTITIES LISTED ON THIS SHEET DO NOT INCLUDE QUANTITIES FOR EXIT 44 NB OFF RAMP.
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Designed by:



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**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (6 OF 14)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
Designed	JS	2/20	Checked
Drawn	GW	2/20	In Charge of

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

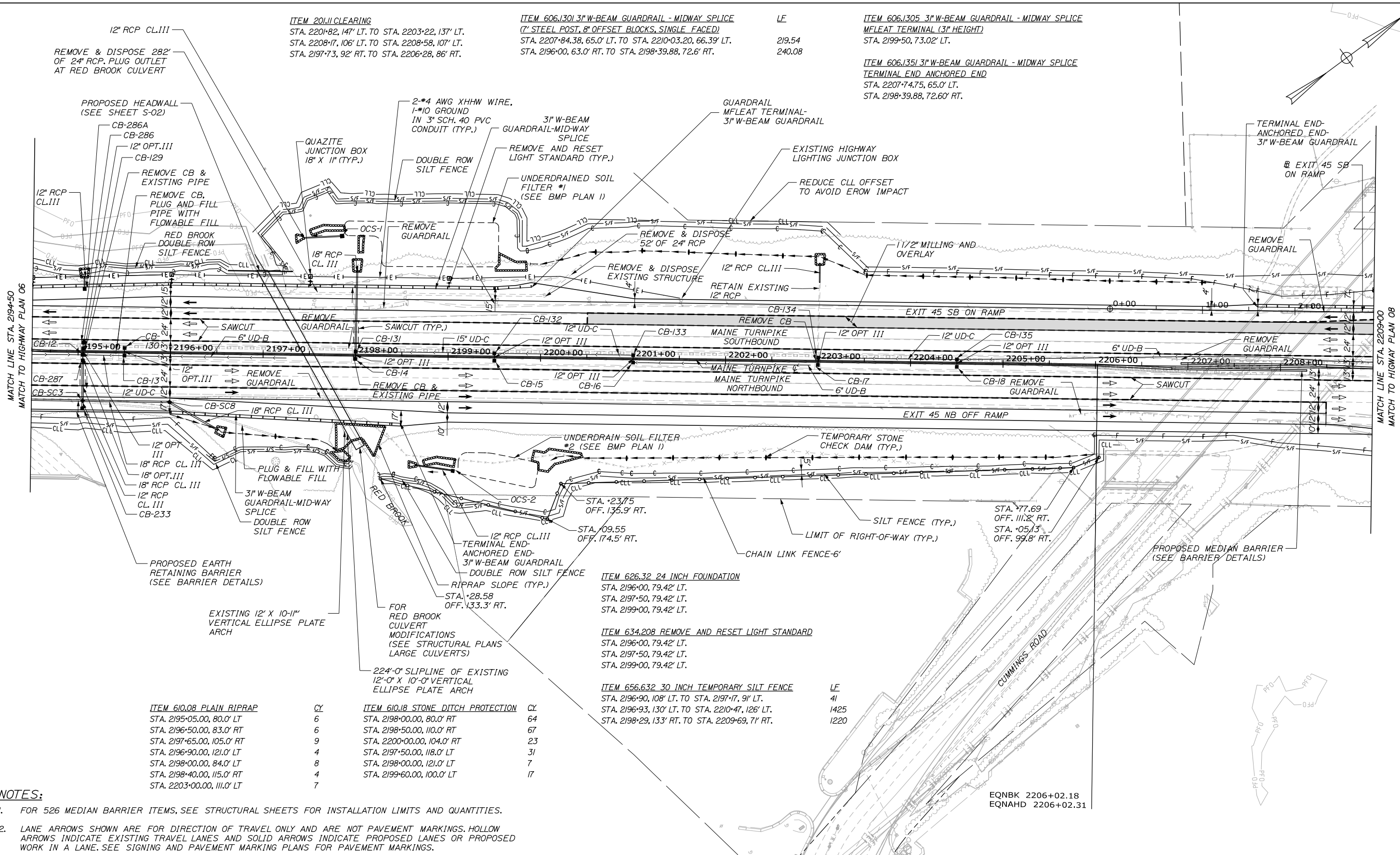
CONTRACT: 2020.03

SHEET NUMBER: HP-06

60 OF 310

Filename: PAW1_HP_Plan_06.dgn

Date: 2/25/2020



ITEM 201.11 CLEARING
 STA. 2201+82, 147' LT. TO STA. 2203+22, 137' LT.
 STA. 2208+17, 106' LT. TO STA. 2208+58, 107' LT.
 STA. 2197+73, 92' RT. TO STA. 2206+28, 86' RT.

ITEM 606.1301 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
 (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 2207+84.38, 65.0' LT. TO STA. 2210+03.20, 66.39' LT.
 STA. 2196+00, 63.0' RT. TO STA. 2198+39.88, 72.6' RT.

ITEM 606.1305 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
 MFLAAT TERMINAL (3" HEIGHT)
 STA. 2199+50, 73.02' LT.

ITEM 606.1351 3" W-BEAM GUARDRAIL - MIDWAY SPLICE
 TERMINAL END ANCHORED END
 STA. 2207+74.75, 65.0' LT.
 STA. 2198+39.88, 72.60' RT.

ITEM 610.08 PLAIN RIPRAP

STA. 2195+05.00, 80.0' LT	6
STA. 2196+50.00, 83.0' RT	6
STA. 2197+65.00, 105.0' RT	9
STA. 2196+90.00, 121.0' LT	4
STA. 2198+00.00, 84.0' LT	8
STA. 2198+40.00, 115.0' RT	4
STA. 2203+00.00, 111.0' LT	7

ITEM 610.18 STONE DITCH PROTECTION

STA. 2198+00.00, 80.0' RT	64
STA. 2198+50.00, 110.0' RT	67
STA. 2200+00.00, 104.0' RT	23
STA. 2197+50.00, 118.0' LT	31
STA. 2198+00.00, 121.0' LT	7
STA. 2199+60.00, 100.0' LT	17

ITEM 626.32 24 INCH FOUNDATION
 STA. 2196+00, 79.42' LT.
 STA. 2197+50, 79.42' LT.
 STA. 2199+00, 79.42' LT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 2196+00, 79.42' LT.
 STA. 2197+50, 79.42' LT.
 STA. 2199+00, 79.42' LT.

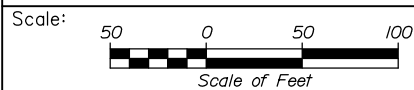
ITEM 656.632 30 INCH TEMPORARY SILT FENCE

STA. 2196+90, 108' LT. TO STA. 2197+17, 91' LT.	41
STA. 2196+93, 130' LT. TO STA. 2210+47, 126' LT.	1425
STA. 2198+29, 133' RT. TO STA. 2209+69, 71' RT.	1220

NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.

Filename: PAW1_HP_Plan_07.dgn



Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

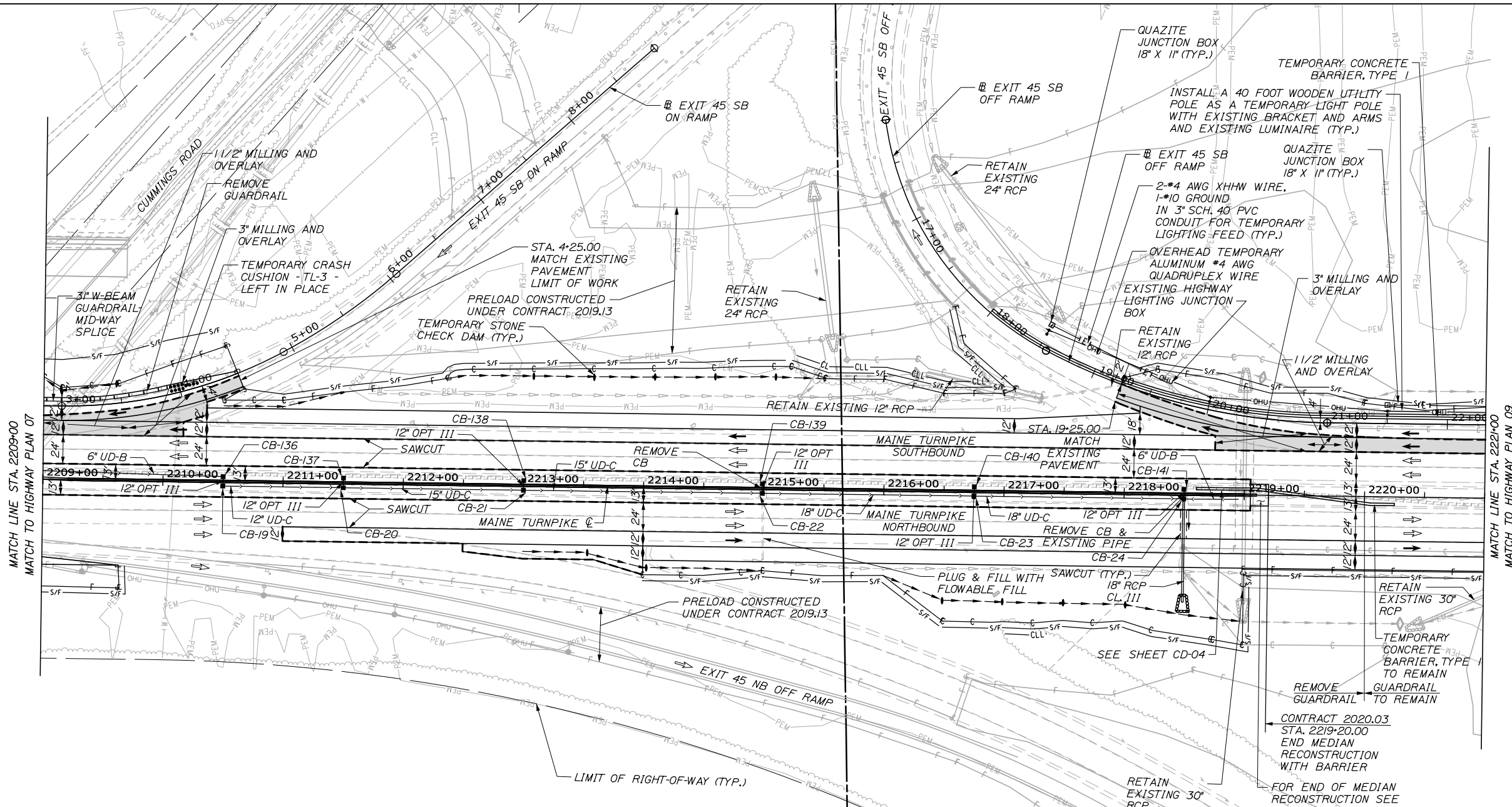
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (7 OF 14)

CONTRACT: 2020.03

SHEET NUMBER: HP-07

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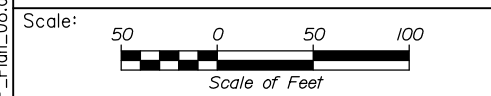
Date: 2/25/2020



- ITEM 20111 CLEARING
STA. 2215+26, 111' LT. TO STA. 2216+52, 92' LT.
STA. 2216+99, 109' RT. TO STA. 2217+37, 118' RT.
- ITEM 527.3411 WORK ZONE CRASH CUSHIONS - TL-3 - LEFT IN PLACE
STA. 2210+28.72, 81.85' LT.
- ITEM 610.08 PLAIN RIPRAP
STA. 2218+50.00, 92.0' RT
- ITEM 634.2083 REMOVE AND STACK LIGHT STANDARD
STA. 19+54.65, 6.90' LT.
STA. 21+11.80, 0.12' LT.
- ITEM 634.221 TEMPORARY HIGHWAY LIGHT
STA. 18+50.00, 16.08' LT.
STA. 20+00.00, 10.42' LT.
STA. 21+50.00, 10.42' LT.
- ITEM 656.632 30 INCH TEMPORARY SILT FENCE
STA. 2210+66, 77' LT. TO STA. 2216+53, 151' LT.
STA. 2218+12, 105' LT. TO STA. 2239+30, 108' LT.
STA. 2214+00, 78' RT. TO STA. 2228+50, 89' RT.

NOTES:

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Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
HIGHWAY PLAN (8 OF 14)

CONTRACT: 2020.03

SHEET NUMBER: HP-08

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Filename: PAW1_HP_Plan_08.dgn

ITEM 2011 CLEARING
STA. 2224+70, 107' LT. TO STA. 2225+52, 96' LT.

ITEM 527.341 WORK ZONE CRASH CUSHIONS - TL-3 - LEFT IN PLACE
STA. 2227+39.22, 65.64' LT.

ITEM 610.08 PLAIN RIPRAP CY
STA. 2227+60.00, 103.0' LT 15
STA. 2227+80.00, 81.0' LT 10
STA. 2227+60.00, 103.0' RT 14
STA. 2227+85.00, 103.0' RT 23
STA. 2223+00.00, 85.0' RT 8

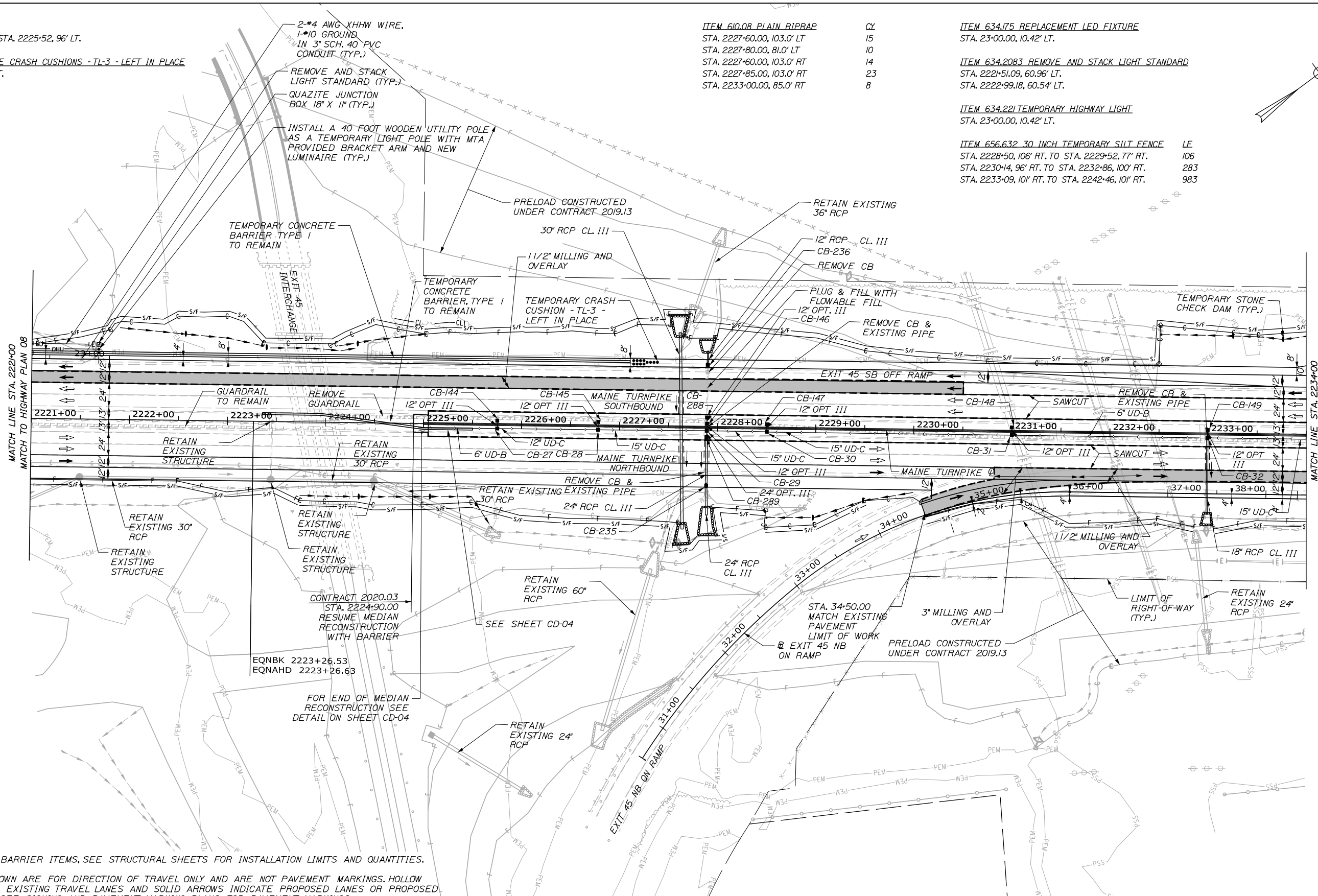
ITEM 634.175 REPLACEMENT LED FIXTURE
STA. 23+00.00, 10.42' LT.

ITEM 634.2083 REMOVE AND STACK LIGHT STANDARD
STA. 2221+51.09, 60.96' LT.
STA. 2222+99.18, 60.54' LT.

ITEM 634.221 TEMPORARY HIGHWAY LIGHT
STA. 23+00.00, 10.42' LT.

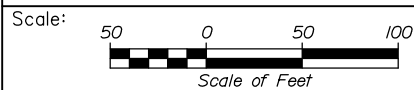
ITEM 656.632 30 INCH TEMPORARY SILT FENCE LE
STA. 2228+50, 106' RT. TO STA. 2229+52, 77' RT. 106
STA. 2230+14, 96' RT. TO STA. 2232+86, 100' RT. 283
STA. 2233+09, 101' RT. TO STA. 2242+46, 101' RT. 983

Date: 2/25/2020



NOTES:

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- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.



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**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
HIGHWAY PLAN (9 OF 14)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

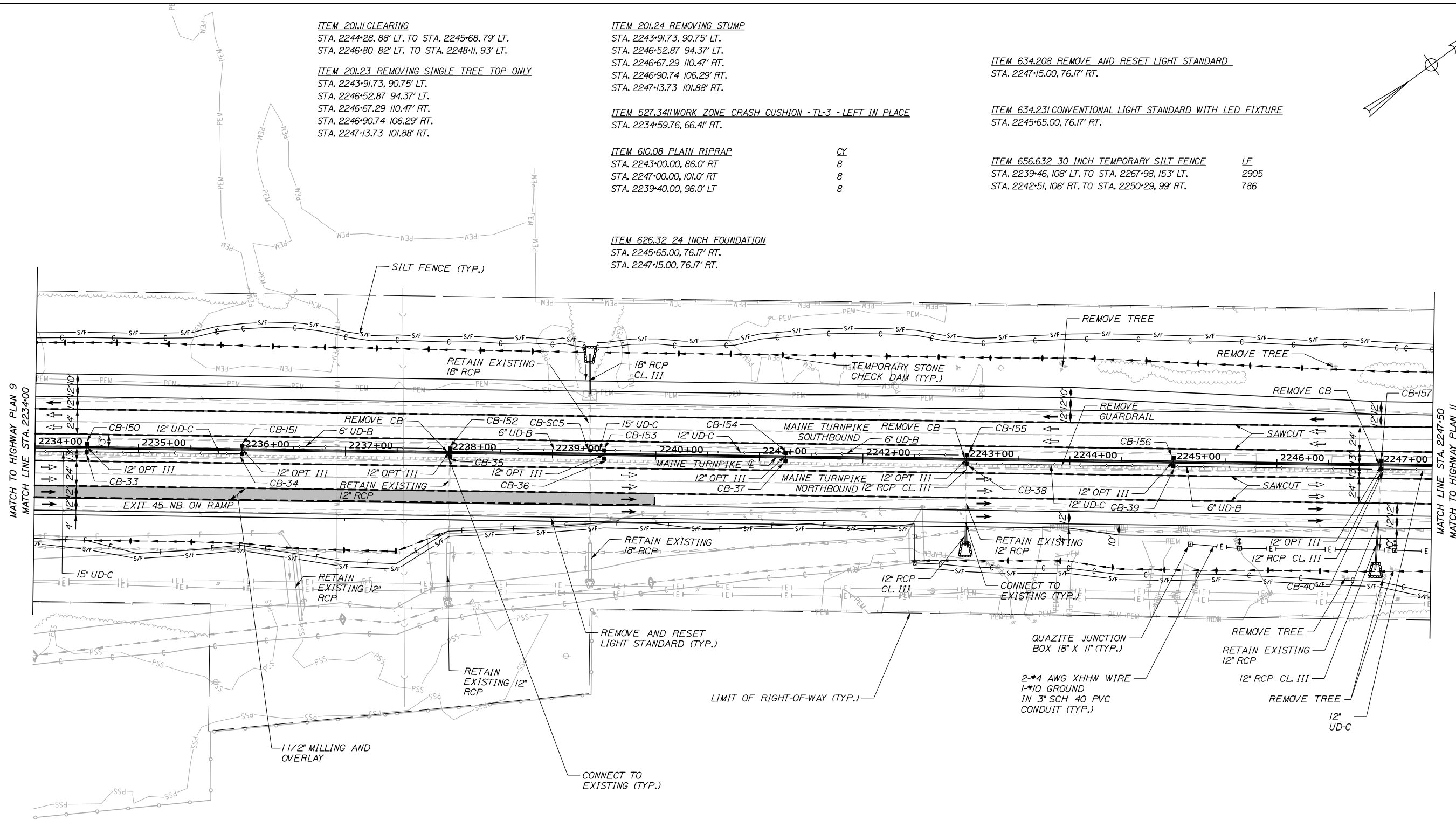
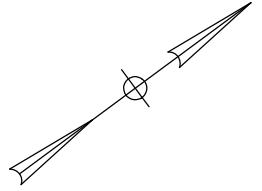
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: HP-09

63 OF 310

Date: 2/25/2020



ITEM 201.11 CLEARING
 STA. 2244+28, 88' LT. TO STA. 2245+68, 79' LT.
 STA. 2246+80, 82' LT. TO STA. 2248+11, 93' LT.

ITEM 201.23 REMOVING SINGLE TREE TOP ONLY
 STA. 2243+91.73, 90.75' LT.
 STA. 2246+52.87, 94.37' LT.
 STA. 2246+67.29, 110.47' RT.
 STA. 2246+90.74, 106.29' RT.
 STA. 2247+13.73, 101.88' RT.

ITEM 201.24 REMOVING STUMP
 STA. 2243+91.73, 90.75' LT.
 STA. 2246+52.87, 94.37' LT.
 STA. 2246+67.29, 110.47' RT.
 STA. 2246+90.74, 106.29' RT.
 STA. 2247+13.73, 101.88' RT.

ITEM 527.34 WORK ZONE CRASH CUSHION - TL-3 - LEFT IN PLACE
 STA. 2234+59.76, 66.41' RT.

ITEM 610.08 PLAIN RIPRAP
 STA. 2243+00.00, 86.0' RT
 STA. 2247+00.00, 101.0' RT
 STA. 2239+40.00, 96.0' LT

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 2247+15.00, 76.17' RT.

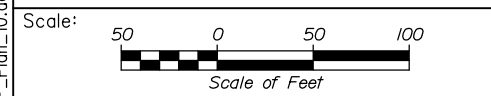
ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE
 STA. 2245+65.00, 76.17' RT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE
 STA. 2239+46, 108' LT. TO STA. 2267+98, 153' LT.
 STA. 2242+51, 106' RT. TO STA. 2250+29, 99' RT.

ITEM 626.32 24 INCH FOUNDATION
 STA. 2245+65.00, 76.17' RT.
 STA. 2247+15.00, 76.17' RT.

NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
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Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (10 OF 14)

Filename: PAW1_HP_Plan_10.dgn

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: HP-10

64 OF 310

ITEM 201.11 CLEARING
 STA. 2254+42, 121' LT. TO STA. 2263+89, 116' LT.
 STA. 2251+91 85' RT. TO STA. 2252+57, 93' RT.
 STA. 2253+05, 99' RT. TO STA. 2253+53, 107' RT.
 STA. 2256+81, 102' RT. TO STA. 2257+04, 104' RT.

ITEM 606.1301 31" W BEAM GUARDRAIL - MIDWAY SPLICE LF
 (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 2249+69.45, 74.50' RT. TO STA. 2249+85.97, 73.50' RT. 16.33

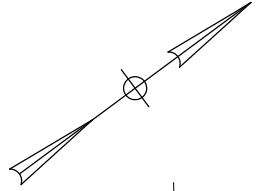
ITEM 606.1305 31" W-BEAM GUARDRAIL - MIDWAY SPLICE
 MFLAT TERMINAL (31" HEIGHT)
 STA. 2249+35.44, 79.53' RT.

ITEM 610.08 PLAIN RIPRAP CY
 STA. 2251+85.00, 86.0' RT 20
 STA. 2251+85.00, 82.0' LT 16
 STA. 2261+00.00, 87.0' RT 7

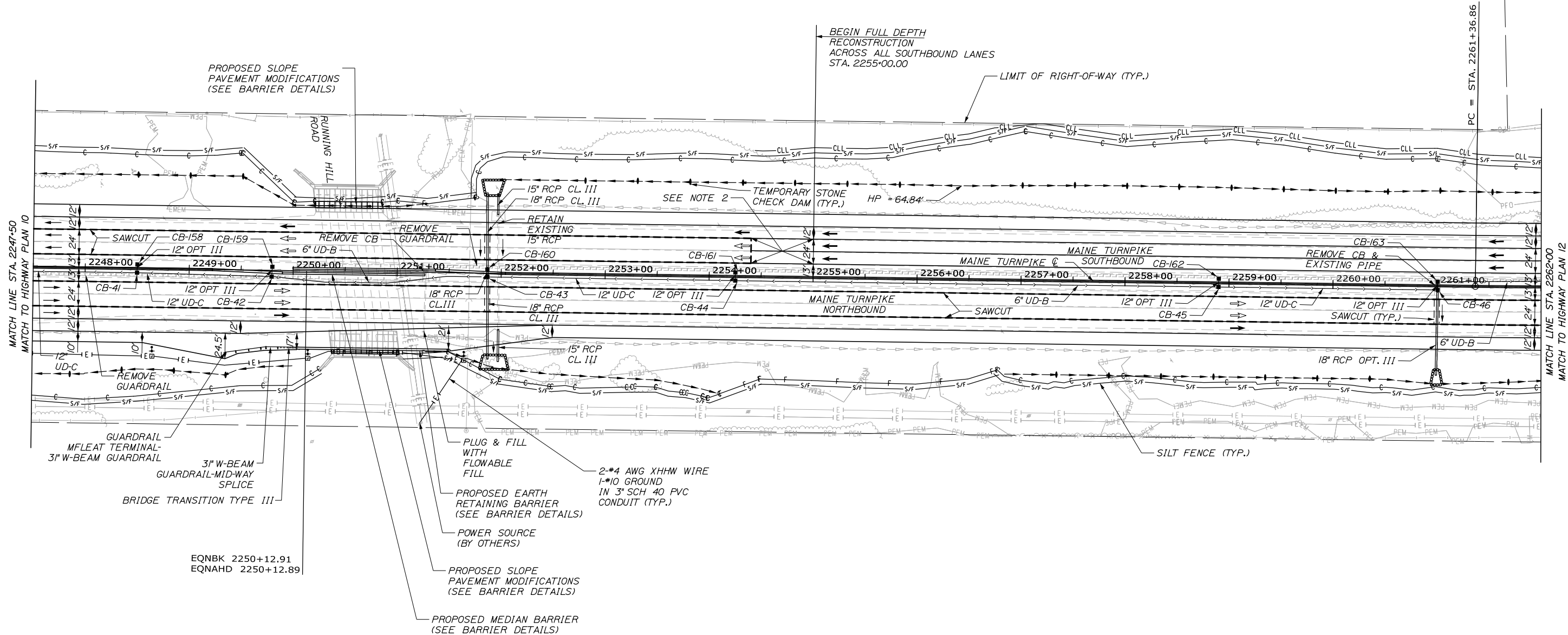
ITEM 634.208 REMOVE AND RESET LIGHT STANDARD LF
 STA. 2248+65.00, 79.13' RT.
 STA. 2250+15.00, 79.92' RT.
 STA. 2251+65.00, 79.84' RT.

ITEM 626.32 24 INCH FOUNDATION LF
 STA. 2248+65.00, 79.13' RT.
 STA. 2250+15.00, 79.92' RT.
 STA. 2251+65.00, 79.84' RT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE LF
 STA. 2251+02, 84' RT. TO STA. 2276+24, 148' RT. 2741



Date: 2/25/2020



NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.
- FOR PAVEMENT TRANSITION DETAIL, SEE SHEET CD-04.

Scale: 50 0 50 100
Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (11 OF 14)

SHEET NUMBER: HP-11
 CONTRACT: 2020.03
 65 OF 310

Filename: PAW1_HP_Plan_11.dgn

Date: 2/26/2020

ITEM 201.11 CLEARING
 STA. 2270+86, 104' LT. TO STA. 2271+60, 107' LT.
 STA. 2265+76 98' RT. TO STA. 2266+17, 118' RT.
 STA. 2269+60, 99' RT. TO STA. 2272+81, 103' RT.
 STA. 2273+02, 147' RT. TO STA. 2274+31, 126' RT.

ITEM 201.23 REMOVING SINGLE TREE TOP ONLY
 STA. 2265+09.16, 108.33' RT.
 STA. 2265+26.87 93.95' RT.

ITEM 201.24 REMOVING STUMP
 STA. 2265+09.16, 108.33' RT.
 STA. 2265+26.87, 93.95' RT.

ITEM 606.1301 3"W BEAM GUARDRAIL - MIDWAY SPLICE
 (7" STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
 STA. 2270+96.84, 70.64' LT. TO STA. 2277+00, 73.0' LT.
 STA. 2266+99.59, 63.0' RT. TO STA. 2273+02.60, 63.0' RT.

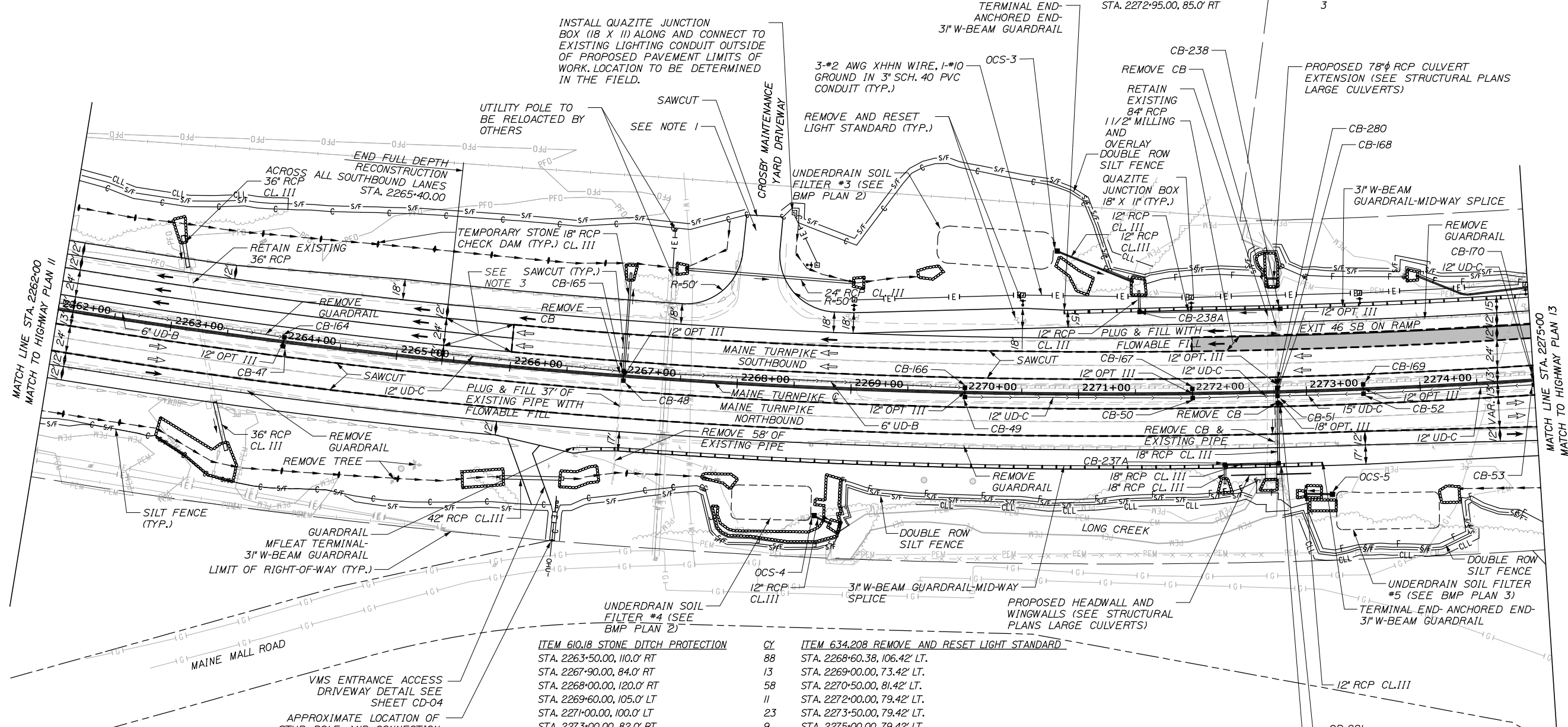
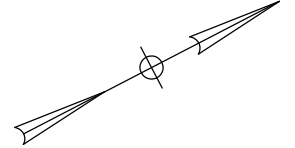
ITEM 606.1305 3"W BEAM GUARDRAIL - MIDWAY SPLICE
MFLEAT TERMINAL (3" HEIGHT)
 STA. 2266+60.89, 65.98' RT.

ITEM 606.1351 3"W BEAM GUARDRAIL - MIDWAY SPLICE
TERMINAL END ANCHORED END
 STA. 2270+87.35, 70.33' LT.
 STA. 2273+02.60, 63.0' RT.

LF
 595.53
 609.64

ITEM 610.08 PLAIN RIPRAP
 STA. 2263+00.00, 85.0' LT
 STA. 2267+00.00, 93.0' LT
 STA. 2267+50.00, 97.0' LT
 STA. 2269+00.00, 91.0' LT
 STA. 2271+55.00, 85.0' RT
 STA. 2271+55.00, 95.0' RT
 STA. 2272+70.00, 111.0' LT
 STA. 2272+75.00, 105.0' LT
 STA. 2274+00.00, 98.0' LT
 STA. 2272+65.00, 85.0' RT
 STA. 2268+90.00, 114.0' RT
 STA. 2272+25.00, 72.0' RT
 STA. 2272+95.00, 85.0' RT

CY
 11
 6
 6
 6
 6
 5
 5
 6
 7
 5
 8
 3



ITEM 610.18 STONE DITCH PROTECTION
 STA. 2263+50.00, 110.0' RT
 STA. 2267+90.00, 84.0' RT
 STA. 2268+00.00, 120.0' RT
 STA. 2269+60.00, 105.0' LT
 STA. 2271+00.00, 100.0' LT
 STA. 2273+00.00, 82.0' RT
 STA. 2274+10.00, 92.0' RT

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
 STA. 2268+60.38, 106.42' LT.
 STA. 2269+00.00, 73.42' LT.
 STA. 2270+50.00, 81.42' LT.
 STA. 2272+00.00, 79.42' LT.
 STA. 2273+50.00, 79.42' LT.
 STA. 2275+00.00, 79.42' LT.

ITEM 626.32 24 INCH FOUNDATION
 STA. 2268+60.38, 106.42' LT.
 STA. 2269+00.00, 73.42' LT.
 STA. 2270+50.00, 81.42' LT.
 STA. 2272+00.00, 79.42' LT.
 STA. 2273+50.00, 79.42' LT.
 STA. 2275+00.00, 79.42' LT.

ITEM 656.632 30 INCH TEMPORARY SILT FENCE
 STA. 2268+34, 153' LT. TO STA. 2271+35, 89' LT.
 STA. 2271+59, 102.68' LT. TO STA. 2272+62, 106' LT.
 STA. 2272+87, 112' LT. TO STA. 2285+01, 129' LT.

ITEM 656.60 TEMPORARY BERMS
 STA. 2263+00, 64' RT. TO STA. 2328+00, 64' RT.

ITEM 656.62 TEMPORARY SLOPE DRAIN
 STA. 2263+65, 65' RT. TO STA. 2263+65, 103' RT.

LF
 392
 102
 1247
 LF
 65
 LF
 38

NOTES:

- REFER TO CROSS SECTIONS FOR CROSBY MAINTENANCE YARD DRIVEWAY.
- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.
- FOR PAVEMENT TRANSITION DETAIL, SEE SHEET CD-04.

Scale: 50 0 50 100
 Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 HIGHWAY PLAN (12 OF 14)

SHEET NUMBER: HP-12
 CONTRACT: 2020.03
 66 OF 310

Filename: PAW1_HP_Plan_12.dgn

ITEM 201.11 CLEARING
STA. 2275+01, 136' RT. TO STA. 2277+87, 149' RT.

ITEM 526.30 TEMPORARY CONCRETE BARRIER LE
STA. 2288+20.00, 5.68' LT. TO STA. 2289+29.94, 0.14' LT. 130.21

ITEM 606.1301 31" W-BEAM GUARDRAIL - MIDWAY SPLICE LE
(7' STEEL POST, 8" OFFSET BLOCKS, SINGLE FACED)
STA. 2284+47.07, 63.0' RT. TO STA. 2285+67.62, 63.0' RT. 121.87

ITEM 606.1305 31" W-BEAM GUARDRAIL - MIDWAY SPLICE
MFLEAT TERMINAL (31" HEIGHT)
STA. 2277+00, 73.05' LT.
STA. 2284+08.37, 65.98' RT.

ITEM 606.1351 31" W-BEAM GUARDRAIL - MIDWAY SPLICE
TERMINAL END ANCHORED END
STA. 2285+67.62, 63.0' RT.

ITEM 610.08 PLAIN RIPRAP CY
STA. 2277+00.00, 100.0' RT 8
STA. 2282+55.00, 110.0' RT 8
STA. 2284+45.00, 82.0' RT 4
STA. 2282+55.00, 97.0' LT 7
STA. 2282+75.00, 95.0' LT 8
STA. 2283+90.00, 104.0' LT 7
STA. 2287+00.00, 90.0' LT 4

ITEM 610.18 STONE DITCH PROTECTION CY
STA. 2276+30.00, 107.0' LT 11
STA. 2277+20.00, 105.0' LT 23
STA. 2285+50.00, 75.0' RT 50

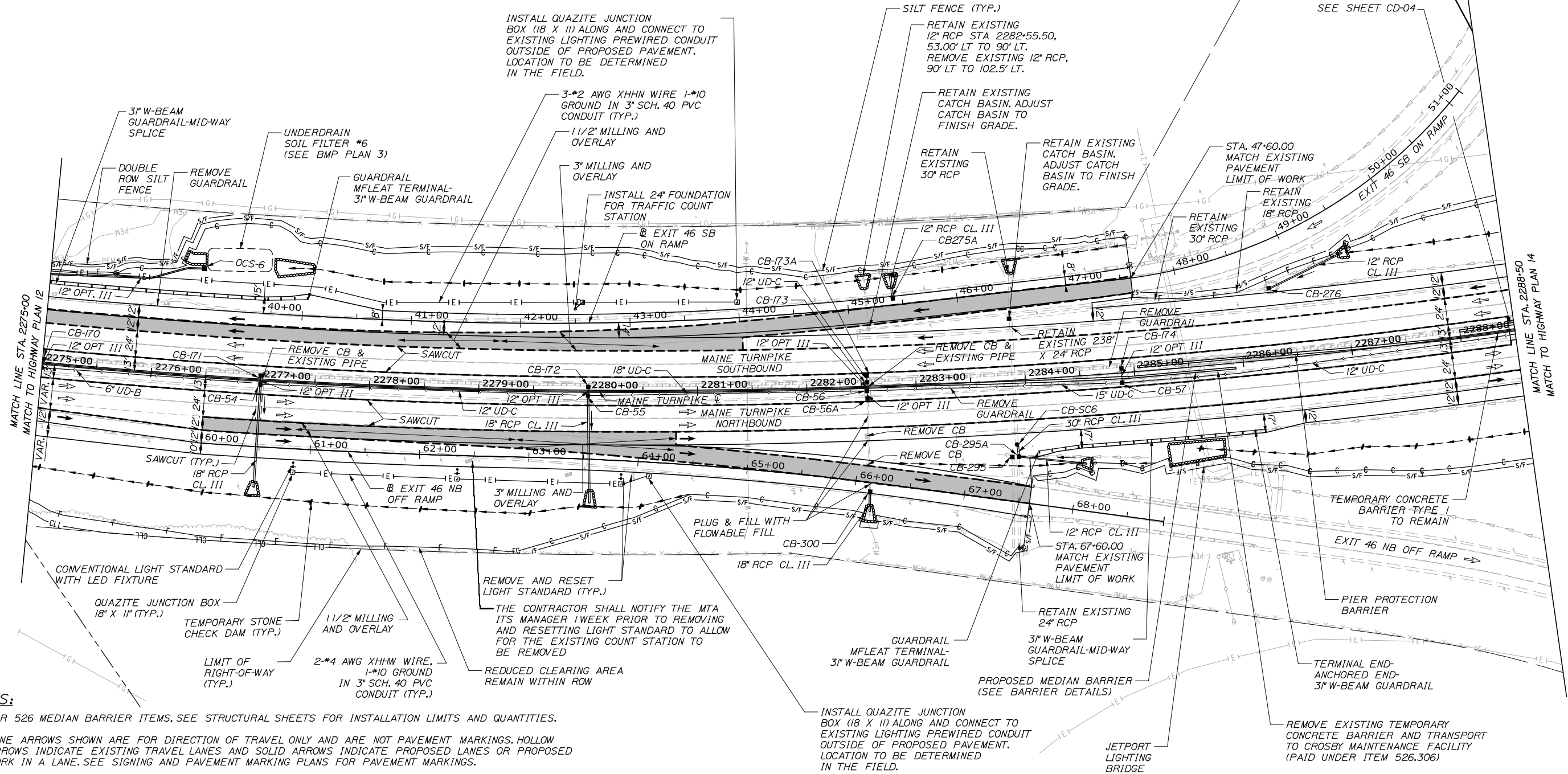
ITEM 626.32 24 INCH FOUNDATION
STA. 42+50.00, 14.42' LT.
STA. 60+85.00, 16.42' RT.
STA. 62+35.00, 16.42' RT.
STA. 63+85.00, 16.42' RT.

ITEM 634.208 REMOVE AND RESET LIGHT STANDARD
STA. 62+35.00, 16.42' RT.
STA. 63+85.00, 16.42' RT.

ITEM 634.231 CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE
STA. 60+85.00, 16.42' RT.

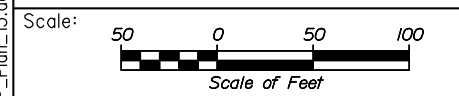
ITEM 656.632 30 INCH TEMPORARY SILT FENCE LE
STA. 2285+05, 73' LT. TO STA. 2292+00, 112' LT. 700
STA. 2279+57, 149' RT. TO STA. 2283+89, 159' RT. 451
STA. 2285+05, 99' RT. TO STA. 2292+50, 113' RT. 887

Date: 2/26/2020



NOTES:

- FOR 526 MEDIAN BARRIER ITEMS, SEE STRUCTURAL SHEETS FOR INSTALLATION LIMITS AND QUANTITIES.
- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.
- DRUMS FROM STA. 2277+00 TO 2294+00 TO BE LEFT IN PLACE FOLLOWING CONSTRUCTION. PAYMENT SHALL BE MADE UNDER ITEM 652.332 DRUM LEFT IN PLACE. SEE SIGNING AND PAVEMENT MARKING PLANS.



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
HIGHWAY PLAN (13 OF 14)

CONTRACT: 2020.03

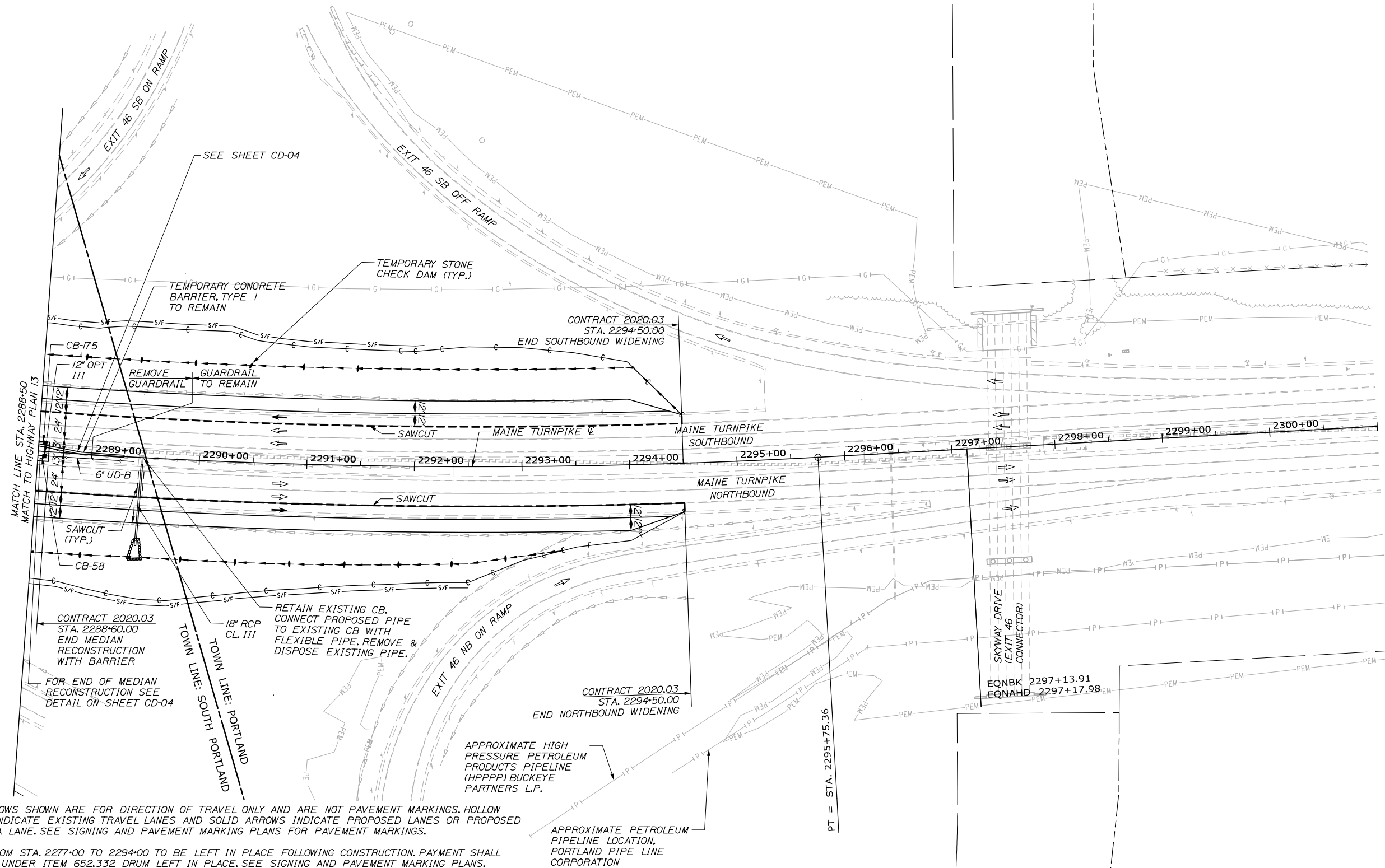
SHEET NUMBER: HP-13

67 OF 310

Date: 2/25/2020

ITEM 610.08 PLAIN RIPRAP
STA. 2289+50.00, 87.0' LT

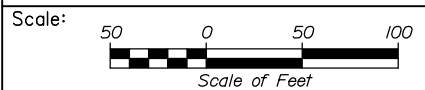
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II



NOTES:

- LANE ARROWS SHOWN ARE FOR DIRECTION OF TRAVEL ONLY AND ARE NOT PAVEMENT MARKINGS. HOLLOW ARROWS INDICATE EXISTING TRAVEL LANES AND SOLID ARROWS INDICATE PROPOSED LANES OR PROPOSED WORK IN A LANE. SEE SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKINGS.
- DRUMS FROM STA. 2277+00 TO 2294+00 TO BE LEFT IN PLACE FOLLOWING CONSTRUCTION. PAYMENT SHALL BE MADE UNDER ITEM 652.332 DRUM LEFT IN PLACE. SEE SIGNING AND PAVEMENT MARKING PLANS.

Filename: PAW1_HP_Plan_14.dgn



Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date
Designed	JS	2/20	Checked	TRS 2/20
Drawn	GW	2/20	In Charge of	RAL 2/20

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Westbrook, ME 04092
TEL (207) 774-5155
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**THE GOLD STAR
MEMORIAL HIGHWAY**

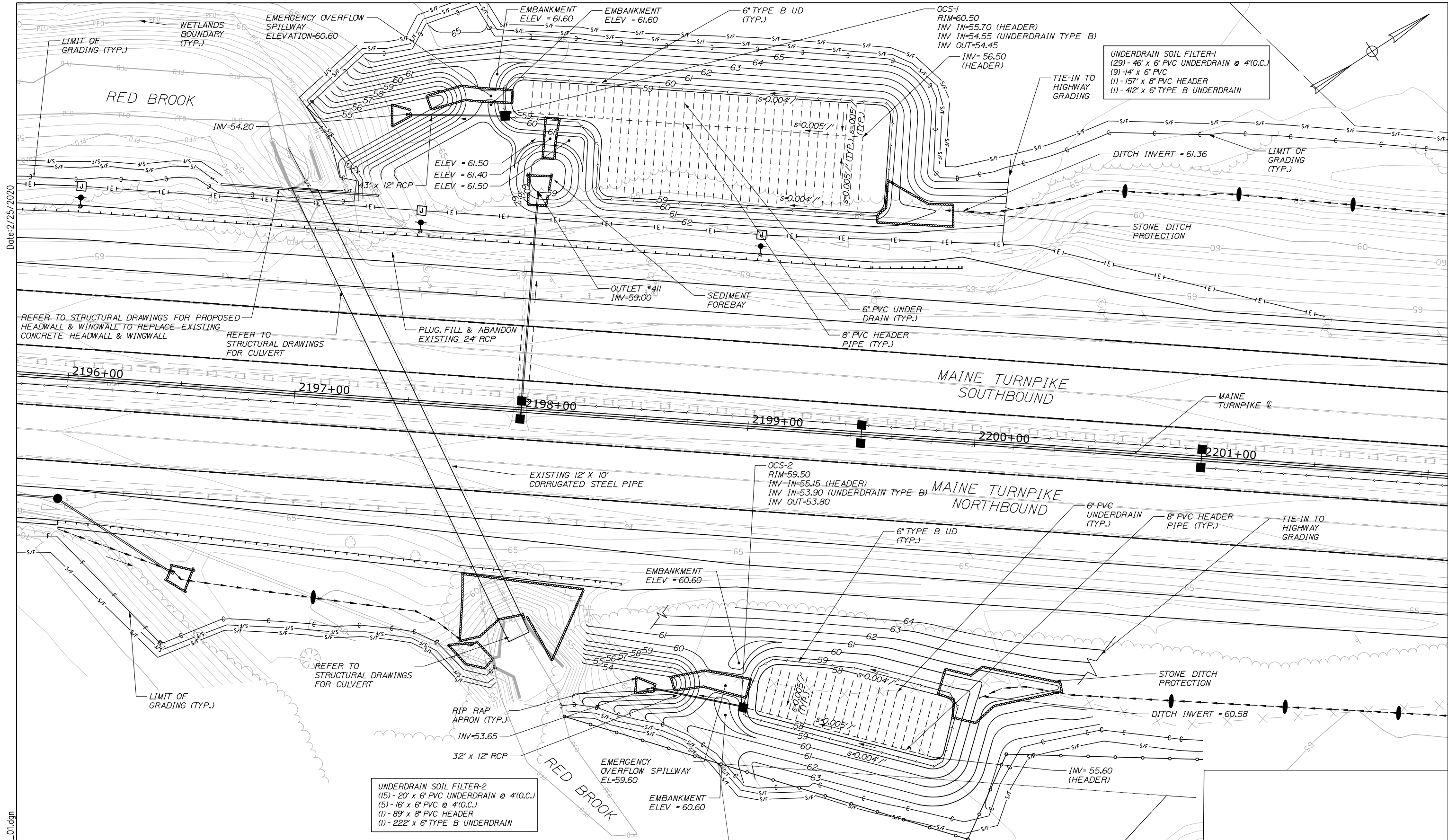
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
HIGHWAY PLAN (14 OF 14)

CONTRACT: 2020.03

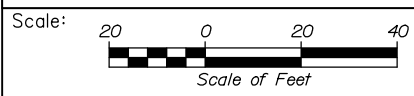
SHEET NUMBER: HP-14

68 OF 310



Date: 2/25/2020

Filename: PAW1_DR_BMP_Plan_01.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	BPP	2/20	Checked	PEK	2/20
Drawn	BPP	2/20	In Charge of	RAL	2/20

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 342 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

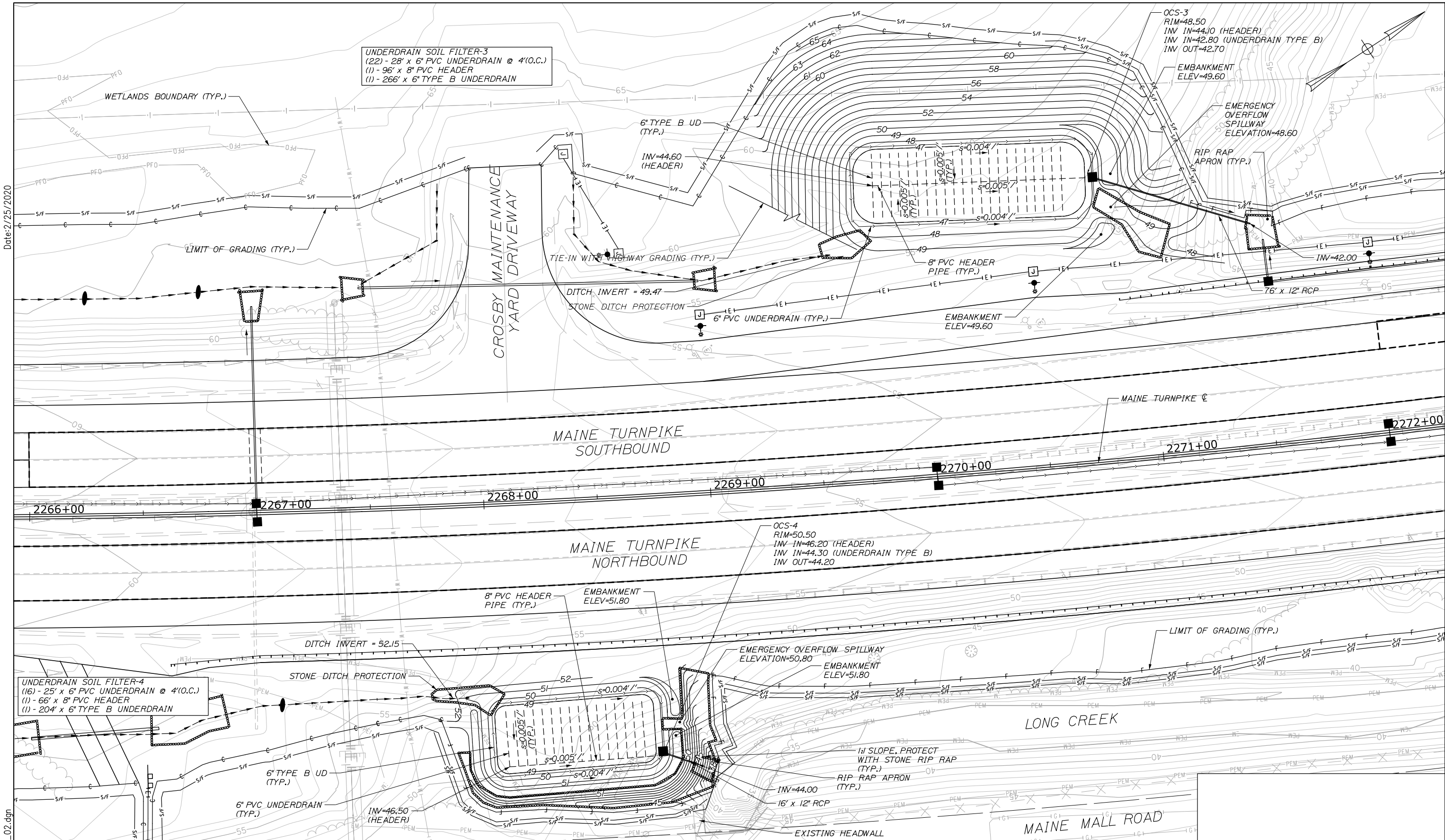
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

**PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
BMP PLAN (1 OF 3)**

CONTRACT: 2020.03

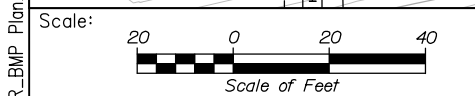
SHEET NUMBER: DB-01
9 OF 310

Date: 2/25/2020



UNDERDRAIN SOIL FILTER-3
 (22) - 28" x 6" PVC UNDERDRAIN @ 4'(O.C.)
 (1) - 96" x 8" PVC HEADER
 (1) - 266' x 6" TYPE B UNDERDRAIN

UNDERDRAIN SOIL FILTER-4
 (16) - 25' x 6" PVC UNDERDRAIN @ 4'(O.C.)
 (1) - 66' x 8" PVC HEADER
 (1) - 204' x 6" TYPE B UNDERDRAIN



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	BPP	2/20	Checked	PEK	2/20
Drawn	BPP	2/20	In Charge of	RAL	2/20

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 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

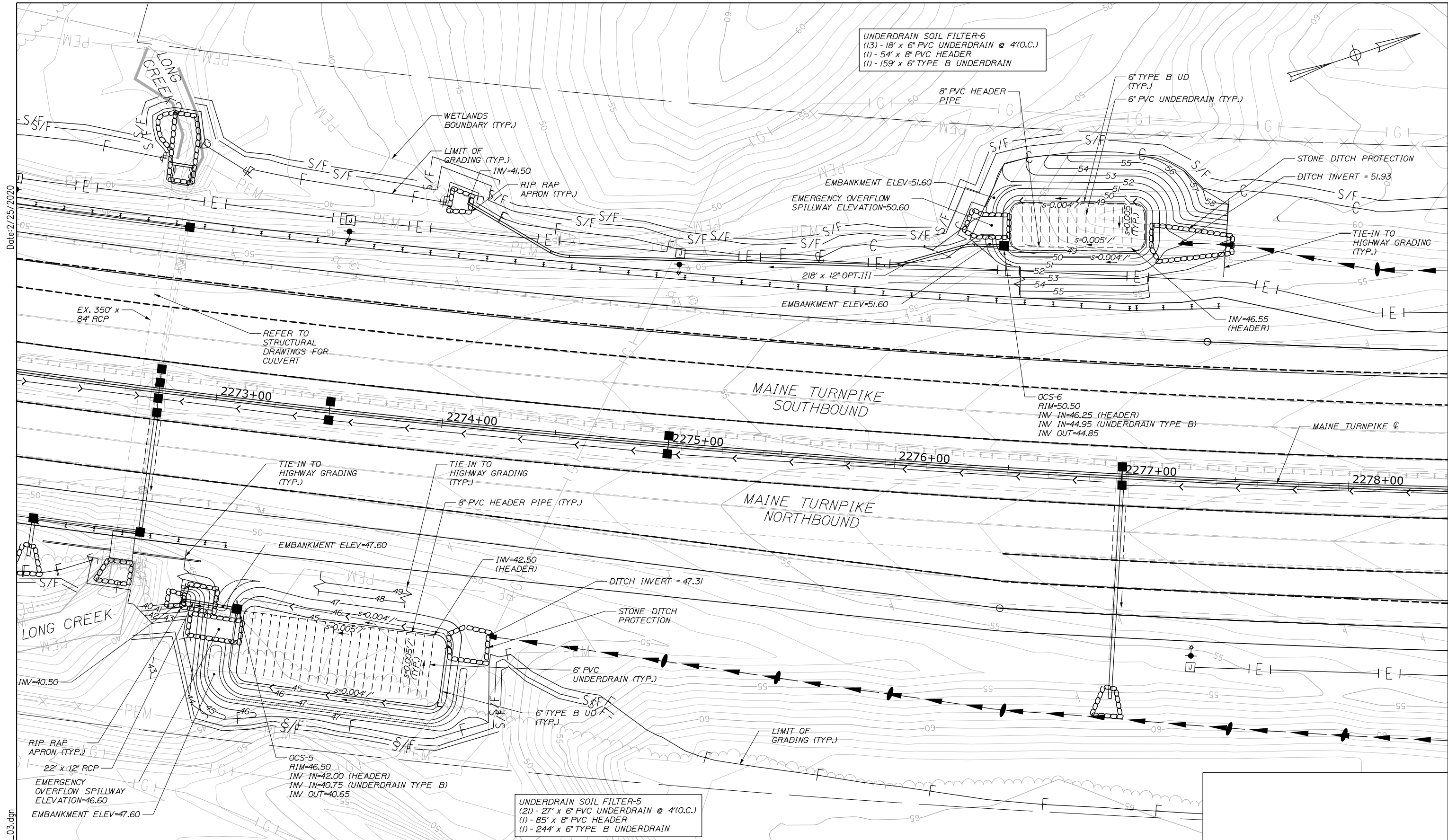
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 BMP PLANS (2 OF 3)

Filename: PAW1_DR_BMP_Plan_02.dgn

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

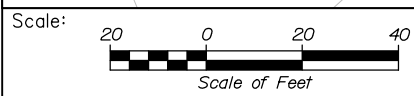
CONTRACT: 2020.03

SHEET NUMBER: DB-02
 70 OF 310



Date: 2/25/2020

Filename: PAW1_DR_BMP_Plan_03.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date
Designed	BPP	2/20	Checked	PEK 2/20
Drawn	BPP	2/20	In Charge of	RAL 2/20

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

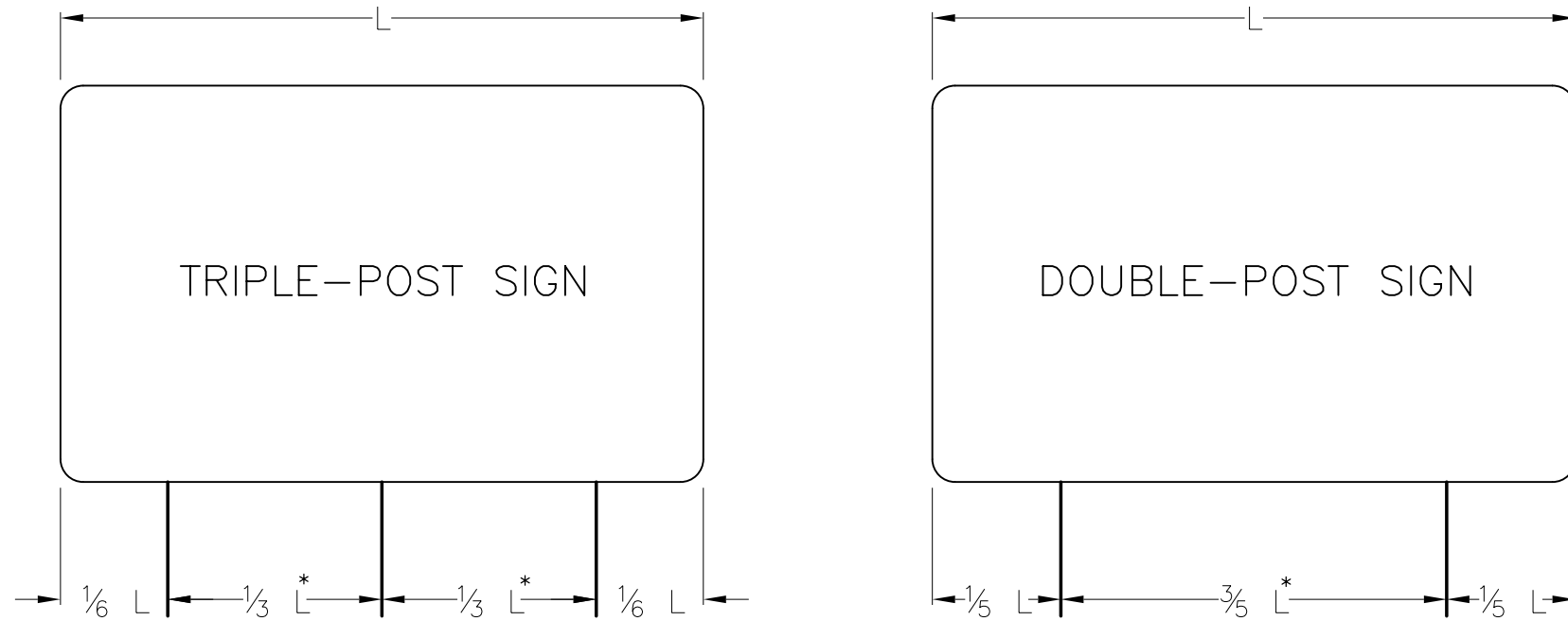
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 BMP PLANS (3 OF 3)

SHEET NUMBER: DB-03
 71 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



POLE SPACING DETAIL
N.T.S.

* - OR USE A MINIMUM OF 7 FEET WHEN INSTALLED ON BREAKAWAY DEVICES IF DISTANCE BETWEEN POSTS IS LESS THEN 7 FEET. THE OVERHANG SHALL BE ADJUSTED ACCORDINGLY.

GENERAL NOTES

- BOLTS TO BE 50,000 PSI MINIMUM YIELD STRENGTH.
- POST TO BASE PLATE WELD SHALL BE 5/16" FILLET WELD.
- BASE PLATES AND H-BEAMS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 720.06.
- DIAMETER OF FOUNDATION INCREASED BY 6" TO AVOID KNOWN ISSUE WITH STANDARD DETAIL 626(02). REINFORCING SIZE AND LAYOUT SHALL MATCH 626(02) DETAIL REQUIREMENTS.
- SIGN POSTS FOR THE SAME SIGN SHALL NOT BE INSTALLED ON BOTH SIDES OF A DITCH UNLESS DIRECTED BY THE RESIDENT.

BREAKAWAY NOTES

- ON BREAKAWAY SUPPORTS, THE HINGE SHOULD BE A MINIMUM OF 7 FEET ABOVE THE FOUNDATION. NO PERMANENT SUPPLEMENTARY SIGNS SHALL BE ATTACHED BELOW THE HINGE.

REMOVE AND RESET & PROPOSED GUIDE SIGN NOTES

- THE CONTRACTOR MAY REUSE EXISTING POLES, FOUNDATIONS AND BREAKAWAY DEVICES AT ANY SIGN LOCATION WHERE FEASIBLE.
- PROPOSED POLE LENGTHS ARE MEASURED FROM THE TOP OF THE FOUNDATION TO THE TOP OF SIGN AND ARE APPROXIMATE. FINAL POLE LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR ONCE FOUNDATIONS ARE PLACED. SEE REMOVE AND RESET SIGN SUMMARY.
- EXISTING SIGN SIZES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR AGAINST THE LISTED POST SIZING.

SALVAGING SIGNS AND SIGN SUPPORTS

- THE AUTHORITY HAS THE RIGHT OF FIRST REFUSAL ON SALVAGING ALL REMOVED EQUIPMENT FOR THIS PROJECT. THE CONTRACTOR SHALL TAKE CARE WHEN REMOVING SIGNS AND SIGN SUPPORTS TO AVOID ADDITIONAL WEAR AND TEAR TO THE EXISTING HARDWARE. THE CONTRACTOR SHALL TRANSPORT AND DELIVER ALL ACCEPTED SALVAGED MATERIALS, EQUIPMENT AND HARDWARE TO THE MAINE TURNPIKE SIGN SHOP, LOCATED ALONG THE TURNPIKE NORTHBOUND ROADWAY AT MILEPOINT 58. DELIVERY OF SALVAGED MATERIALS SHALL BE COORDINATED THROUGH THE RESIDENT.
- ALL SIGNS THAT ARE 12 FEET WIDE OR MORE THAT ARE REMOVED UNDER THIS PROJECT SHALL BE SALVAGED, STACKED, AND DELIVERED TO THE AUTHORITY'S SIGN SHOP. THE SIGNS SHALL BE SALVAGED WITH ALL EXISTING POST CLIPS ATTACHED. ALL OTHER SIGNS REMOVED SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE TO THE RESIDENT.
- ALL STEEL SIGN SUPPORTS AND BREAKAWAY DEVICES REMOVED UNDER THIS PROJECT SHALL BE SALVAGED AND DELIVERED TO THE AUTHORITY'S SIGN SHOP. EACH SUPPORT SALVAGED SHALL BE IDENTIFIED BY THE MILEPOINT FROM WHICH IT WAS REMOVED, ITS OVERALL LENGTH, AND ITS SIZE (IF KNOWN). ALL WOODEN SIGN SUPPORTS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE RESIDENT.

SINGLE SUPPORT SIGNS									
FOUNDATION DIAMETER	FOUNDATION DEPTH	SIGN AREA (A)	SIGN WIDTH (W)	POST SIZE	BASE PLATE (1) (3)	MATERIAL	ANCHOR BOLTS (2)	BOLT CIRCLE	MAXIMUM MOUNTING HEIGHT
		$A < 4 \text{ FT}^2$		U CHANNEL POST					
		$4 < A \leq 10 \text{ FT}^2$		WOOD POST 6"X6"					
18"	6'	$10 < A \leq 16 \text{ FT}^2$	W=4'-0" MAX. BUT INCLUDES 5'-0" YIELD SIGN	W6X9	12"X12"X1" 4I LBS.	A36	1" ϕ X 3'-0"	12"	12 FEET TO SIGN CENTER
18"	6'	$16 < A \leq 25 \text{ FT}^2$	W=5'-0" MAX	W6X15	12"X12"X1" 4I LBS.	A36	1" ϕ X 3'-0"	12"	
24"	7'	$25 < A \leq 42 \text{ FT}^2$	W=7'-0" MAX	W8X24	14"X14"X1" 55 LBS.	A36	1-1/4" ϕ X 3'-6"	14"	

MULTIPLE SUPPORT SIGNS									
FOUNDATION DIAMETER	FOUNDATION DEPTH	SIGN AREA (A)	SIGN WIDTH (W)	POST SIZE	BASE PLATE (1) (3)	MATERIAL	ANCHOR BOLTS (2)	BOLT CIRCLE	MAXIMUM MOUNTING HEIGHT
24"	7'	TO 60 FT ² /POST		W8X18	14"X14"X1" 55 LBS.	A36	1-1/4" ϕ X 3'-6"	14"	20 FEET TO SIGN CENTER
24"	7'	60-85 FT ² /POST		W10X22	12"X17"X1-1/4" 72 LBS.	A36	1-1/4" ϕ X 3'-6"	15"	
30"	8'	85-110 FT ² /POST		W12X26	13"X19"X1-1/4" 87 LBS.	A36	1-1/2" ϕ X 4'-0"	17"	
30"	8'	110-135 FT ² /POST		W14X30	14"X21"X1-1/4" 104 LBS.	A36	1-1/2" ϕ X 4'-0"	19"	

Filename: PAW1_Sign_Details.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

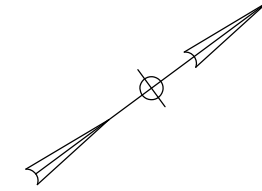
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGN DETAILS AND NOTES

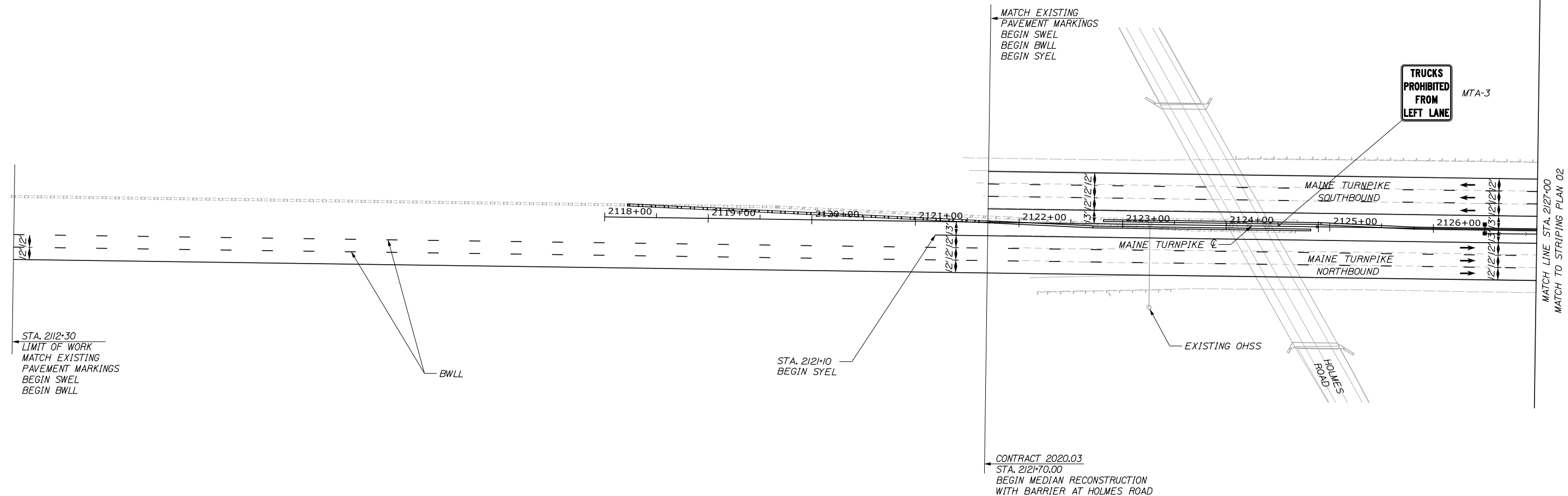
SHEET NUMBER: SDN-01
CONTRACT: 2020.03
92 OF 310

NOTES:

- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.



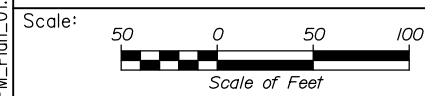
Date: 2/25/2020



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_01.dgn



Designed by:

HNTB

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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

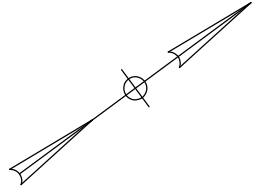
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 SIGNING AND PAVEMENT MARKING
 (1 OF 14)

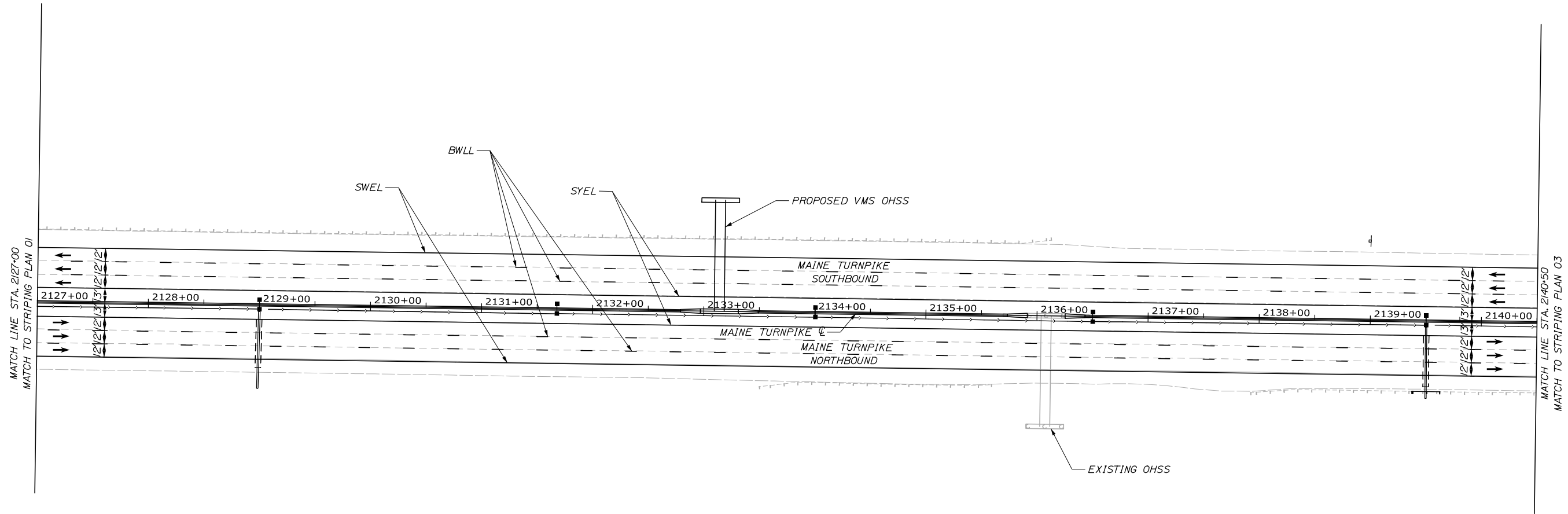
SHEET NUMBER: SPM-01
 CONTRACT: 2020.03
 73 OF 310

NOTES:

- 1. EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.3561.



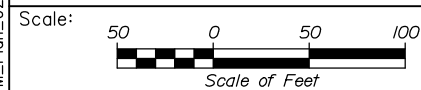
Date: 2/25/2020



LEGEND

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- DWLL = 6" DOTTED WHITE LANE LINE
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- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_02.dgn



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Westbrook, ME 04092
TEL (207) 774-5155
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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGNING AND PAVEMENT MARKING
(2 OF 14)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

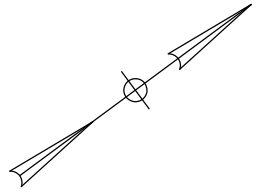
CONTRACT: 2020.03

SHEET NUMBER: SPM-02

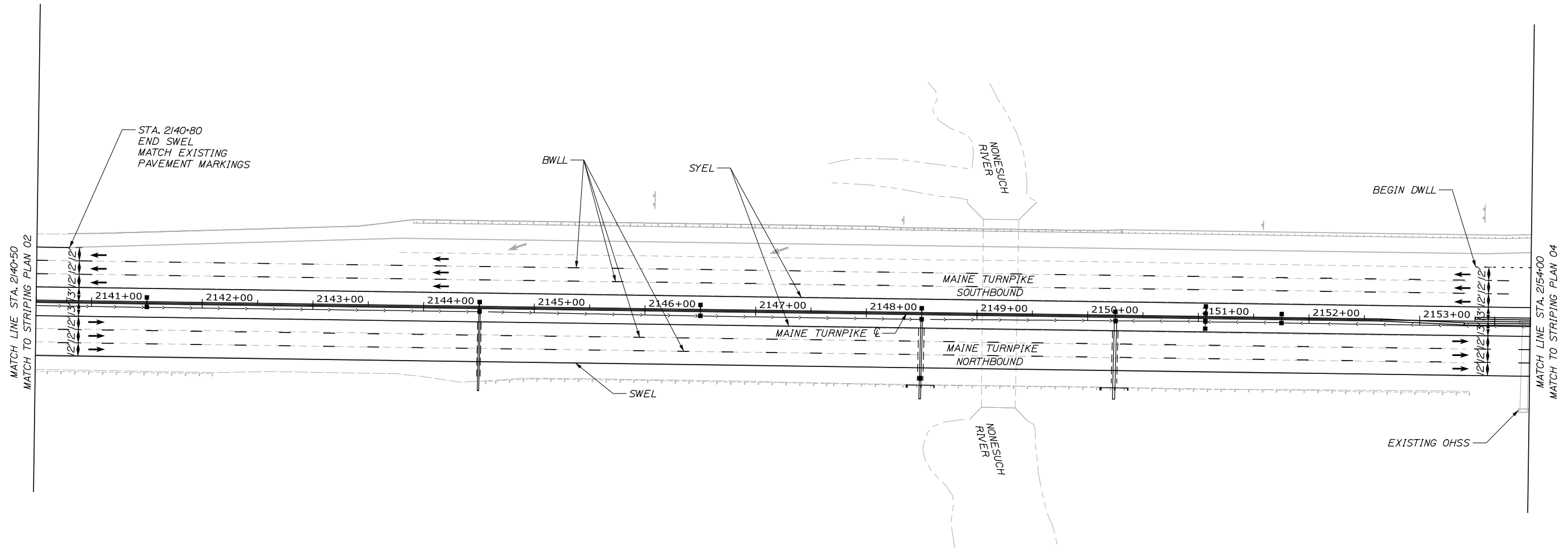
74 OF 310

NOTES:

1. EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.3561.



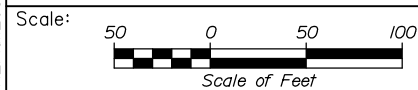
Date: 2/25/2020



LEGEND

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- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_03.dgn



Designed by:



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Westbrook, ME 04092
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FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGNING AND PAVEMENT MARKING
(3 OF 14)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	PEM	2/20	Checked SMA 2/20
Drawn	PEM	2/20	In Charge of RAL 2/20

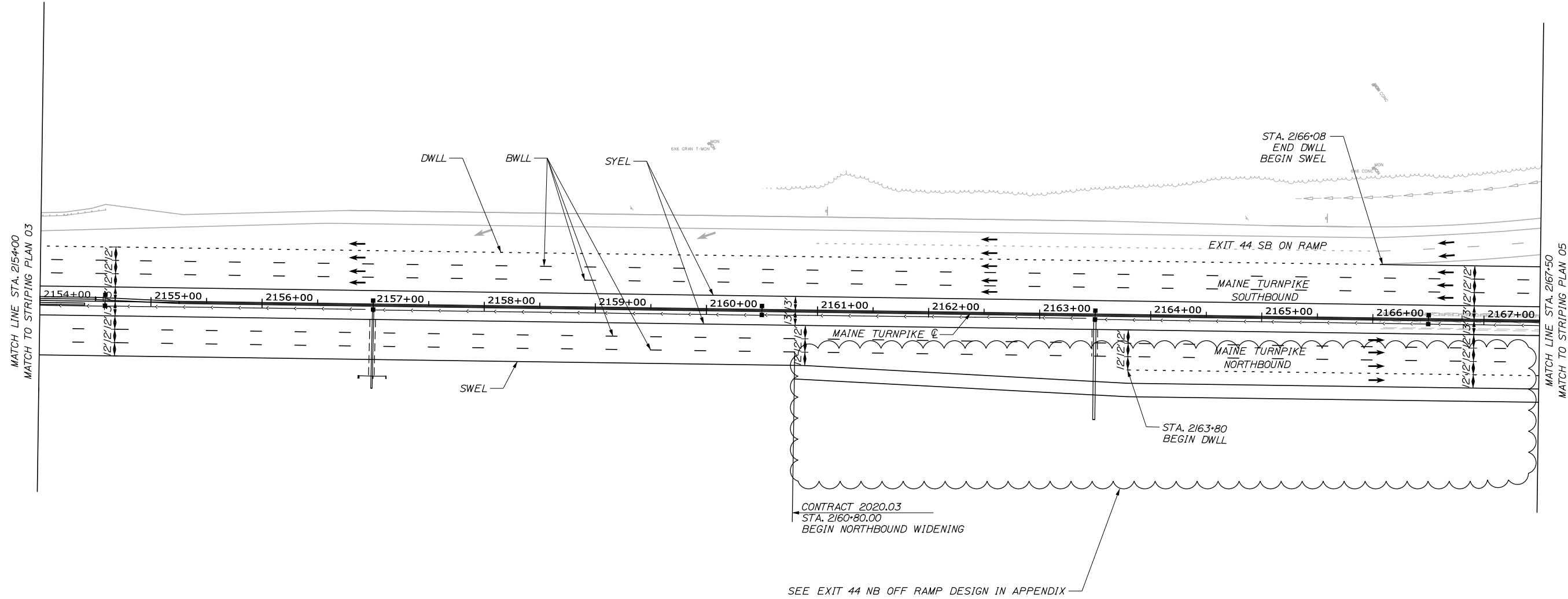
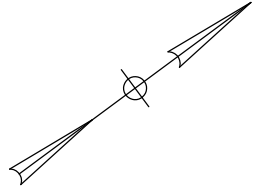
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: SPM-03

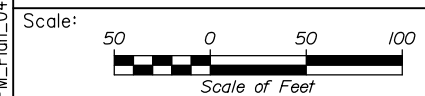
75 OF 310

Date: 2/25/2020



LEGEND

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- SYEL = 6" SOLID YELLOW EDGE LINE
- SWL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 SIGNING AND PAVEMENT MARKING
 (4 OF 14)

CONTRACT: 2020.03

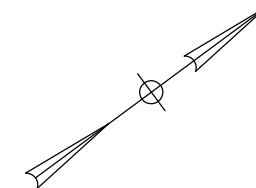
SHEET NUMBER: SPM-04

76 OF 310

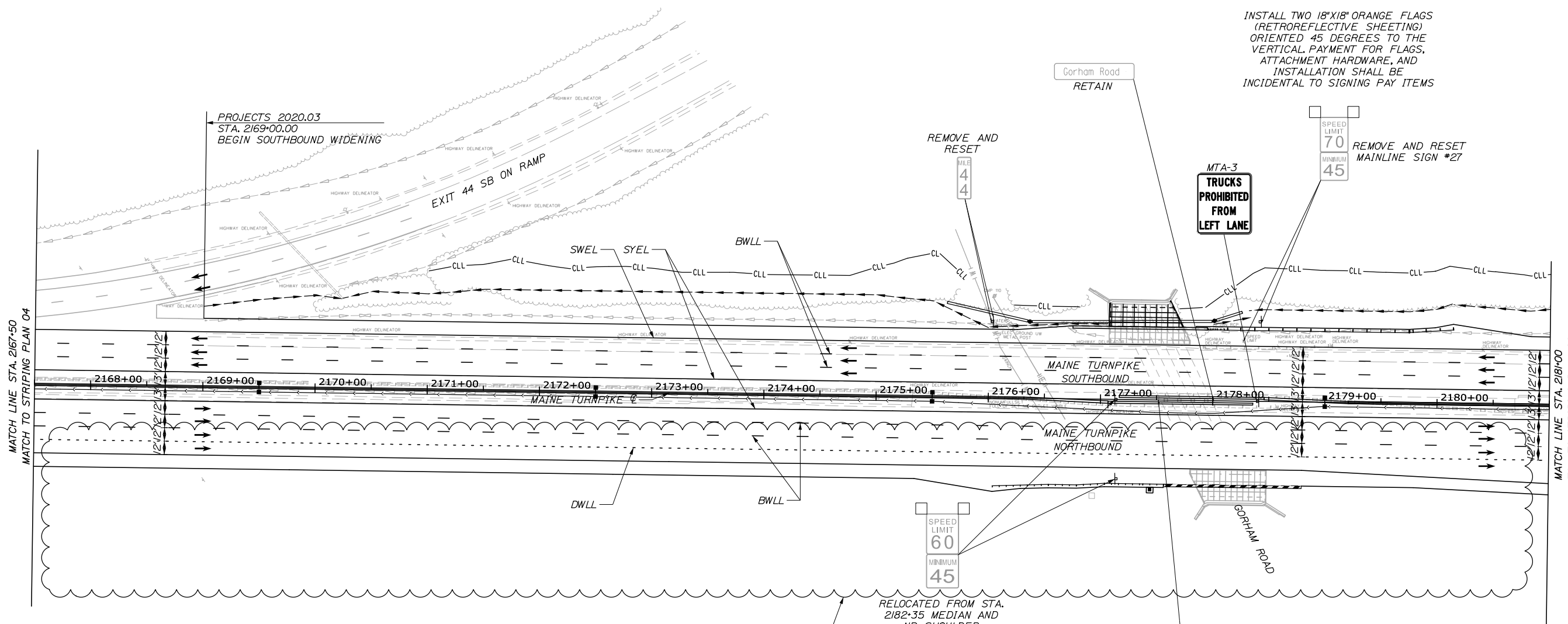
Filename: PAW1_SPM_Plan_04.dgn

NOTES:

- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.



Date: 2/25/2020



INSTALL TWO 18'X18' ORANGE FLAGS (RETROREFLECTIVE SHEETING) ORIENTED 45 DEGREES TO THE VERTICAL. PAYMENT FOR FLAGS, ATTACHMENT HARDWARE, AND INSTALLATION SHALL BE INCIDENTAL TO SIGNING PAY ITEMS

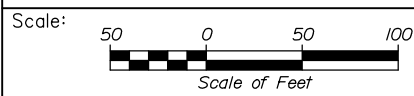
RELOCATED FROM STA. 2182+35 MEDIAN AND NB SHOULDER
 INSTALL TWO 18'X18' ORANGE FLAGS (RETROREFLECTIVE SHEETING) ORIENTED 45 DEGREES TO THE VERTICAL. PAYMENT FOR FLAGS, ATTACHMENT HARDWARE, AND INSTALLATION SHALL BE INCIDENTAL TO SIGNING PAY ITEMS

SEE EXIT 44 NB OFF RAMP DESIGN IN APPENDIX

LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_05.dgn



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**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 SIGNING AND PAVEMENT MARKING
 (5 OF 14)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	PEM	2/20	Checked SMA 2/20
Drawn	PEM	2/20	In Charge of RAL 2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

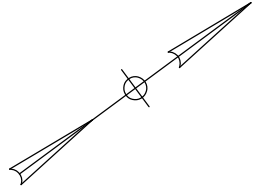
CONTRACT: 2020.03

SHEET NUMBER: SPM-05

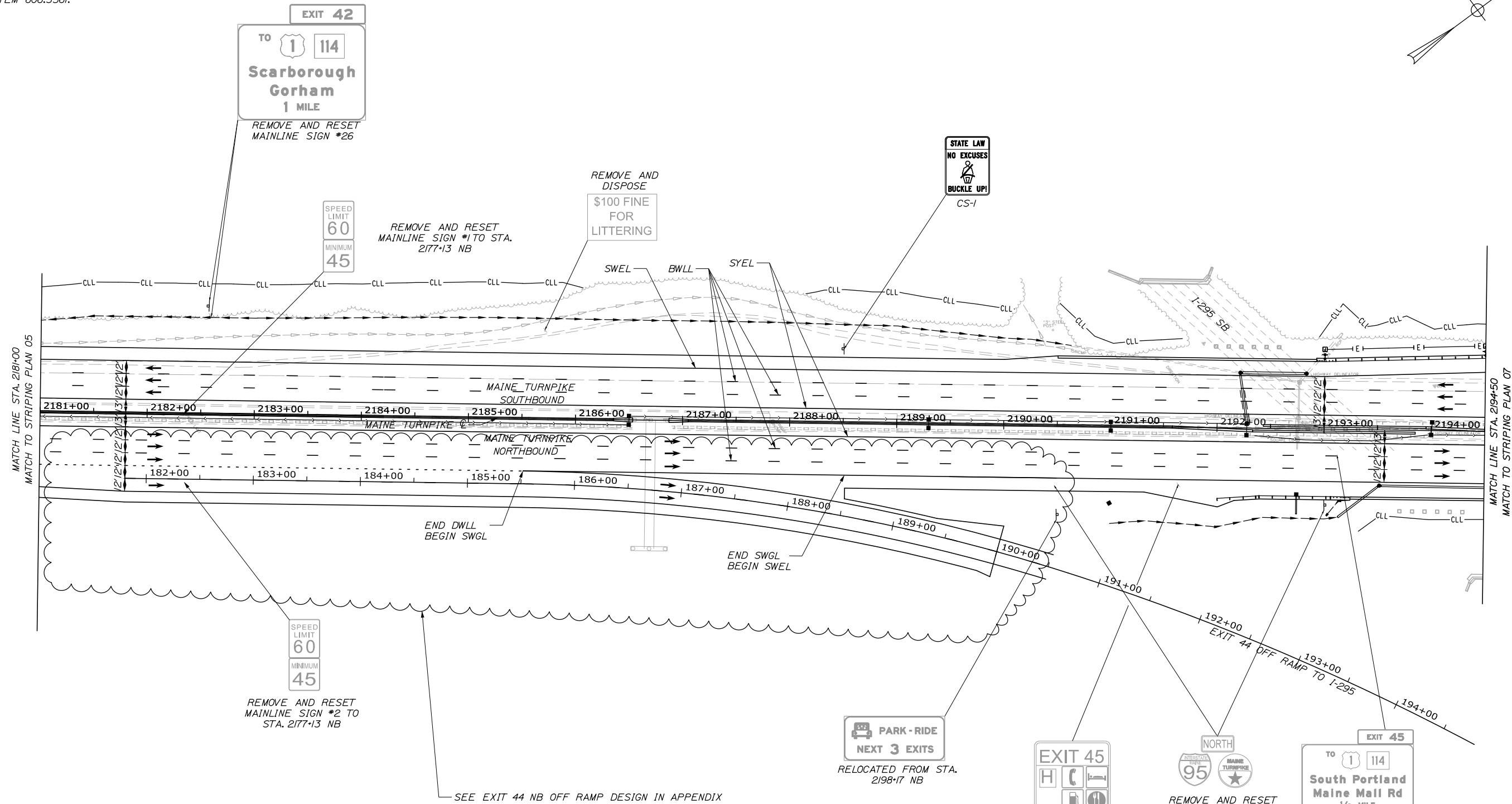
77 OF 310

NOTES:

1. EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.



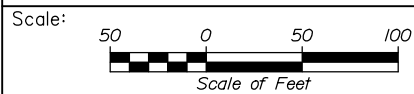
Date: 2/25/2020



LEGEND

BWLL = 6" BROKEN WHITE LANE LINE
 DWLL = 6" DOTTED WHITE LANE LINE
 SWEL = 6" SOLID WHITE EDGE LINE
 SYEL = 6" SOLID YELLOW EDGE LINE
 SWLL = 6" SOLID WHITE LANE LINE
 SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_06.dgn



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**THE GOLD STAR
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 SIGNING AND PAVEMENT MARKING
 (6 OF 14)

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date	By	Date

Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

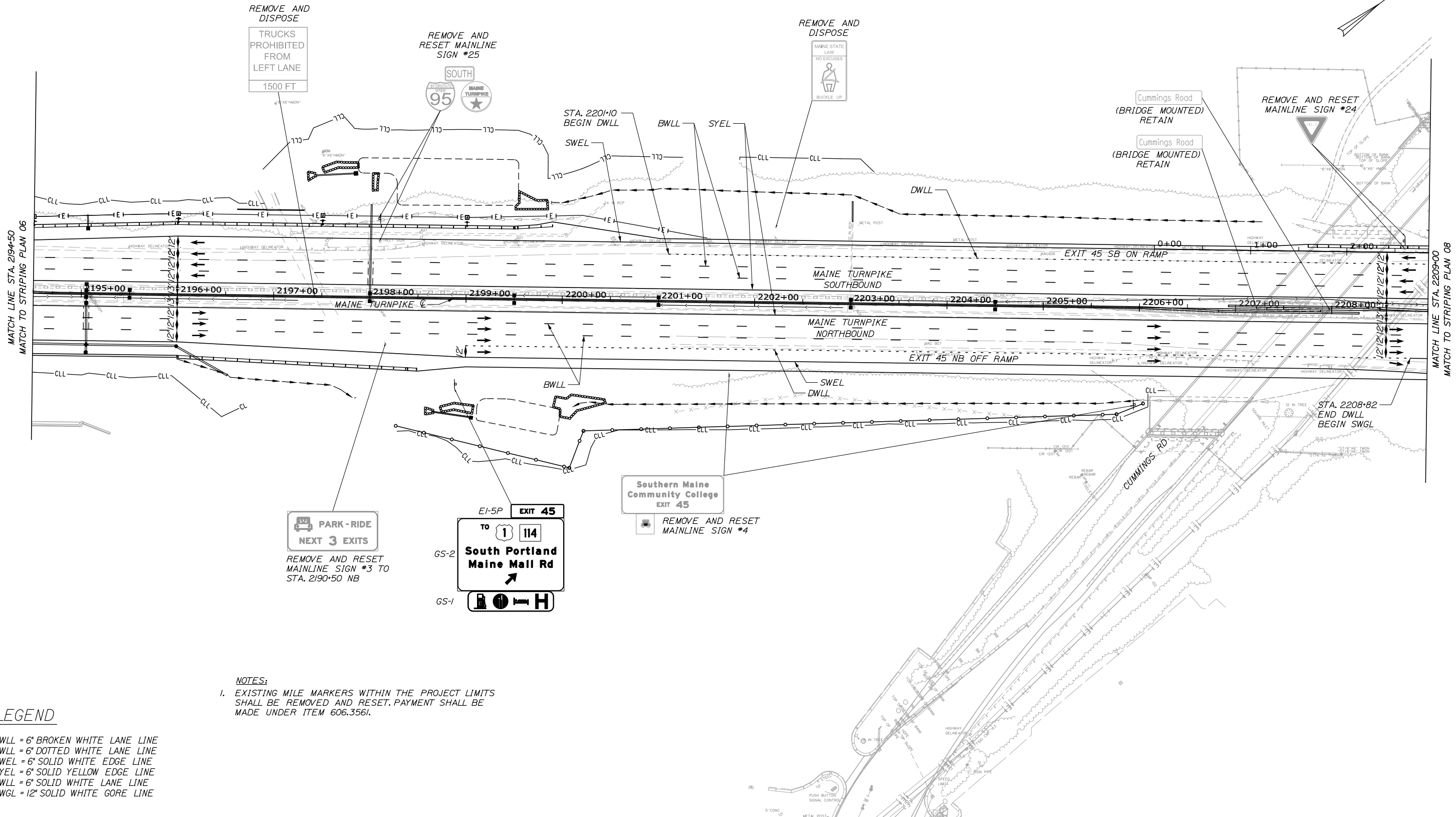
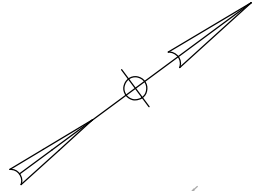
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: SPM-06

78 OF 310

Date: 2/25/2020

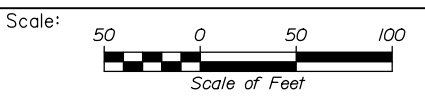


NOTES:
 1. EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.

LEGEND

BWLL = 6" BROKEN WHITE LANE LINE
 DWLL = 6" DOTTED WHITE LANE LINE
 SWEL = 6" SOLID WHITE EDGE LINE
 SYEL = 6" SOLID YELLOW EDGE LINE
 SWLL = 6" SOLID WHITE LANE LINE
 SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_07.dgn



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

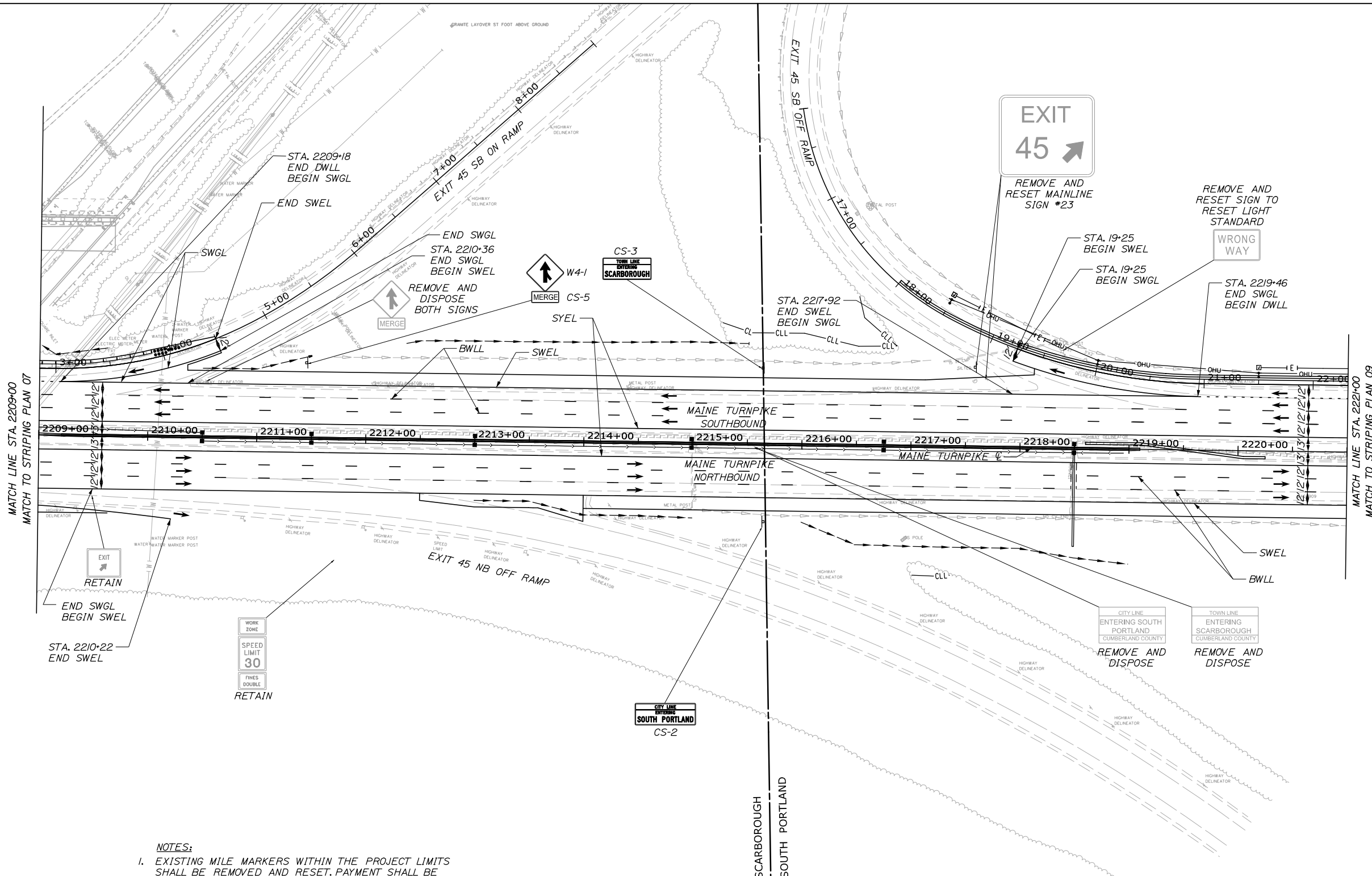
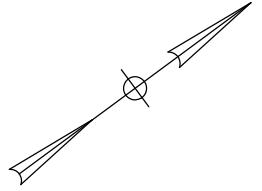
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGNING AND PAVEMENT MARKING
(7 OF 14)

SHEET NUMBER: SPM-07
9 OF 310

CONTRACT: 2020.03

Date: 2/25/2020

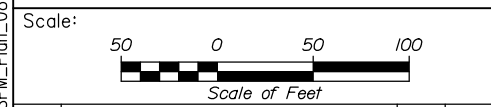


NOTES:
 1. EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.3561.

LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_08.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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MEMORIAL HIGHWAY**

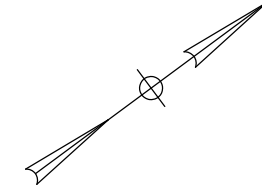
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGNING AND PAVEMENT MARKING
(8 OF 14)

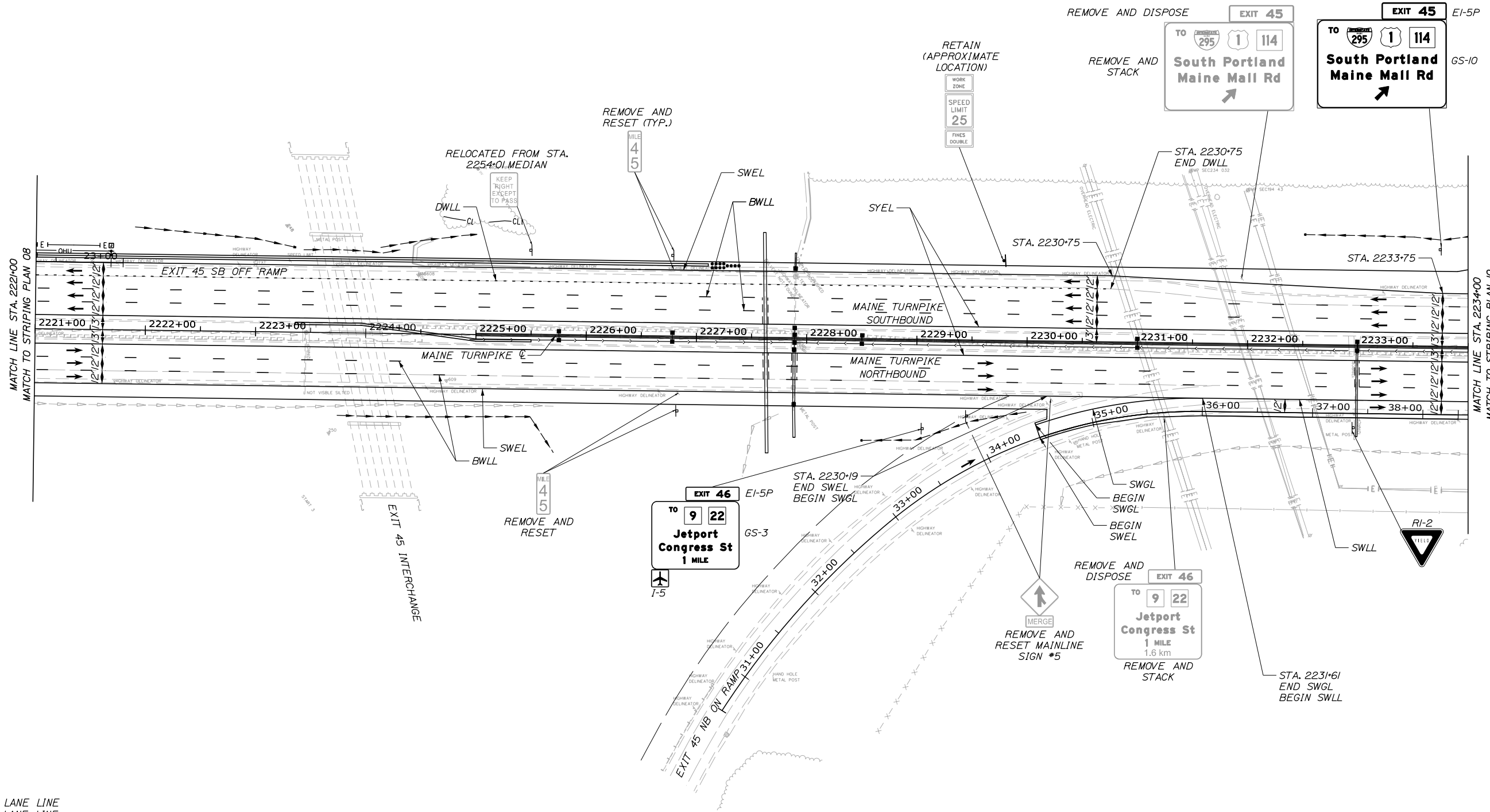
SHEET NUMBER: SPM-08
CONTRACT: 2020.03
80 OF 310

NOTES:

- 1. EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.3561.



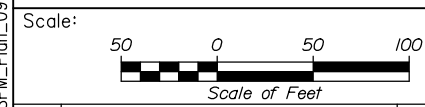
Date: 2/25/2020



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_09.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

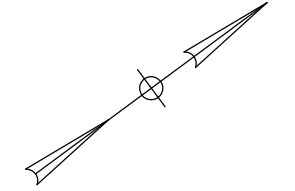
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGNING AND PAVEMENT MARKING
(9 OF 14)

CONTRACT: 2020.03

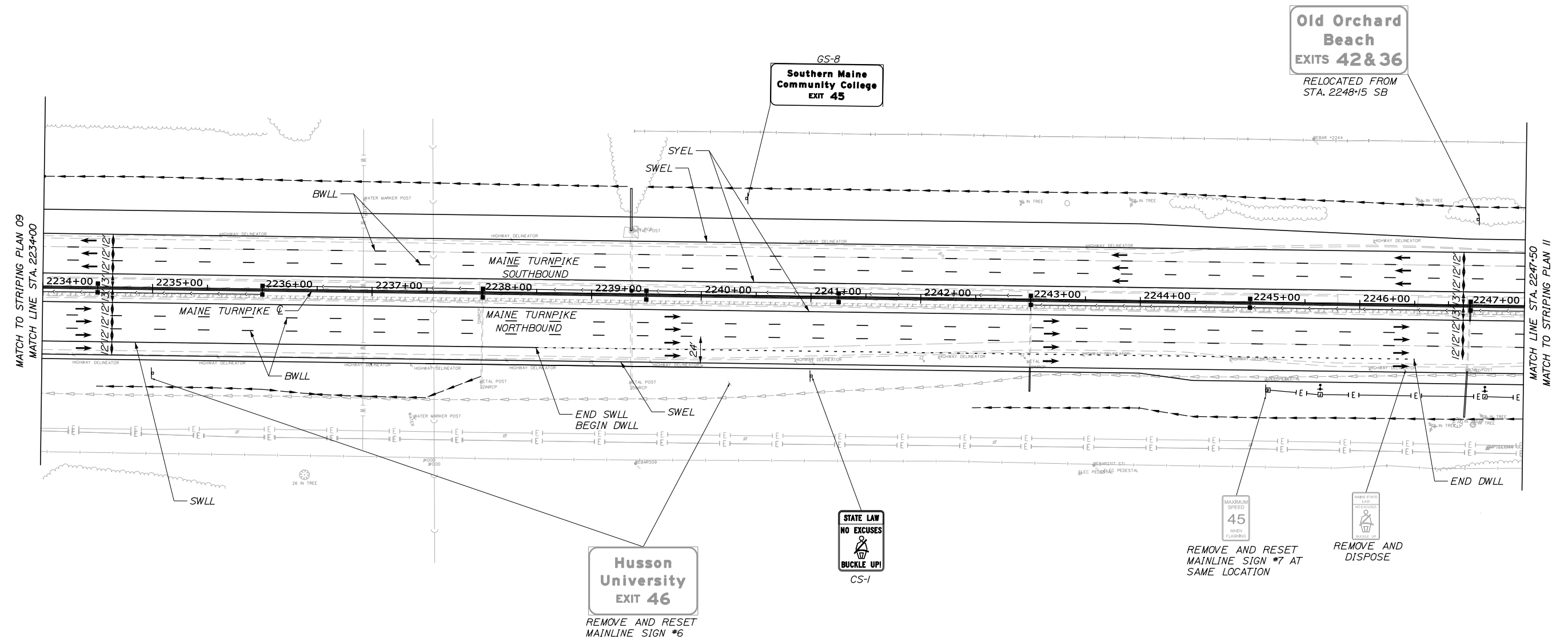
SHEET NUMBER: SPM-09
81 OF 310

NOTES:

- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.



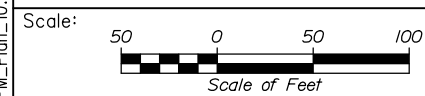
Date: 2/25/2020



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_10.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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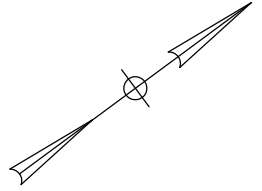
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGNING AND PAVEMENT MARKING
(10 OF 14)

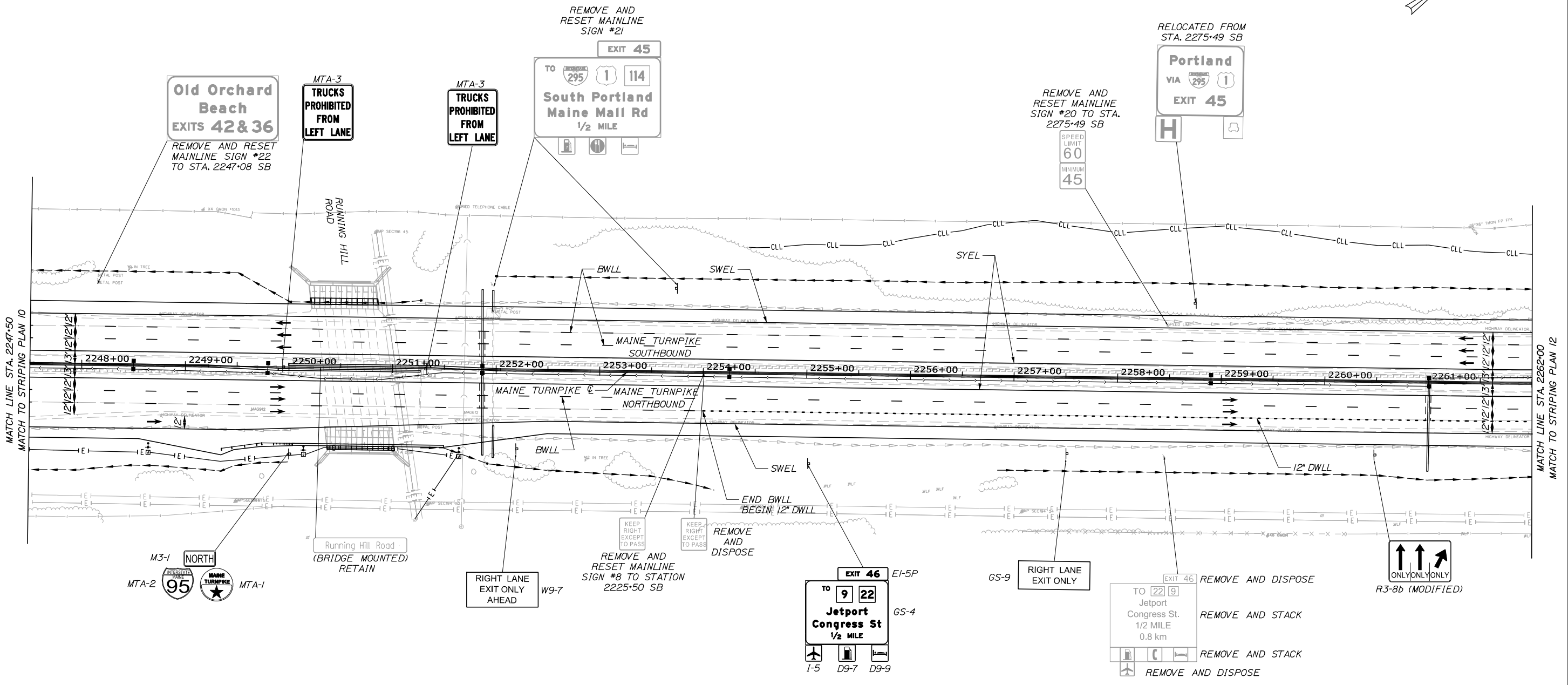
SHEET NUMBER: SPM-10
CONTRACT: 2020.03
82 OF 310

NOTES:

1. EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.3561.



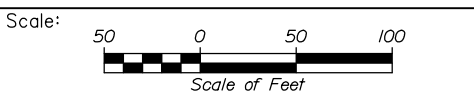
Date: 2/25/2020



LEGEND

BWLL = 6" BROKEN WHITE LANE LINE
 DWLL = 6" DOTTED WHITE LANE LINE
 SWEL = 6" SOLID WHITE EDGE LINE
 SYEL = 6" SOLID YELLOW EDGE LINE
 SWLL = 6" SOLID WHITE LANE LINE
 SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_11.dgn



No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

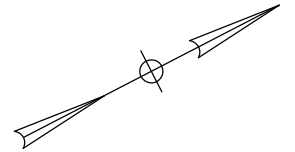
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

**PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGNING AND PAVEMENT MARKING
(11 OF 14)**

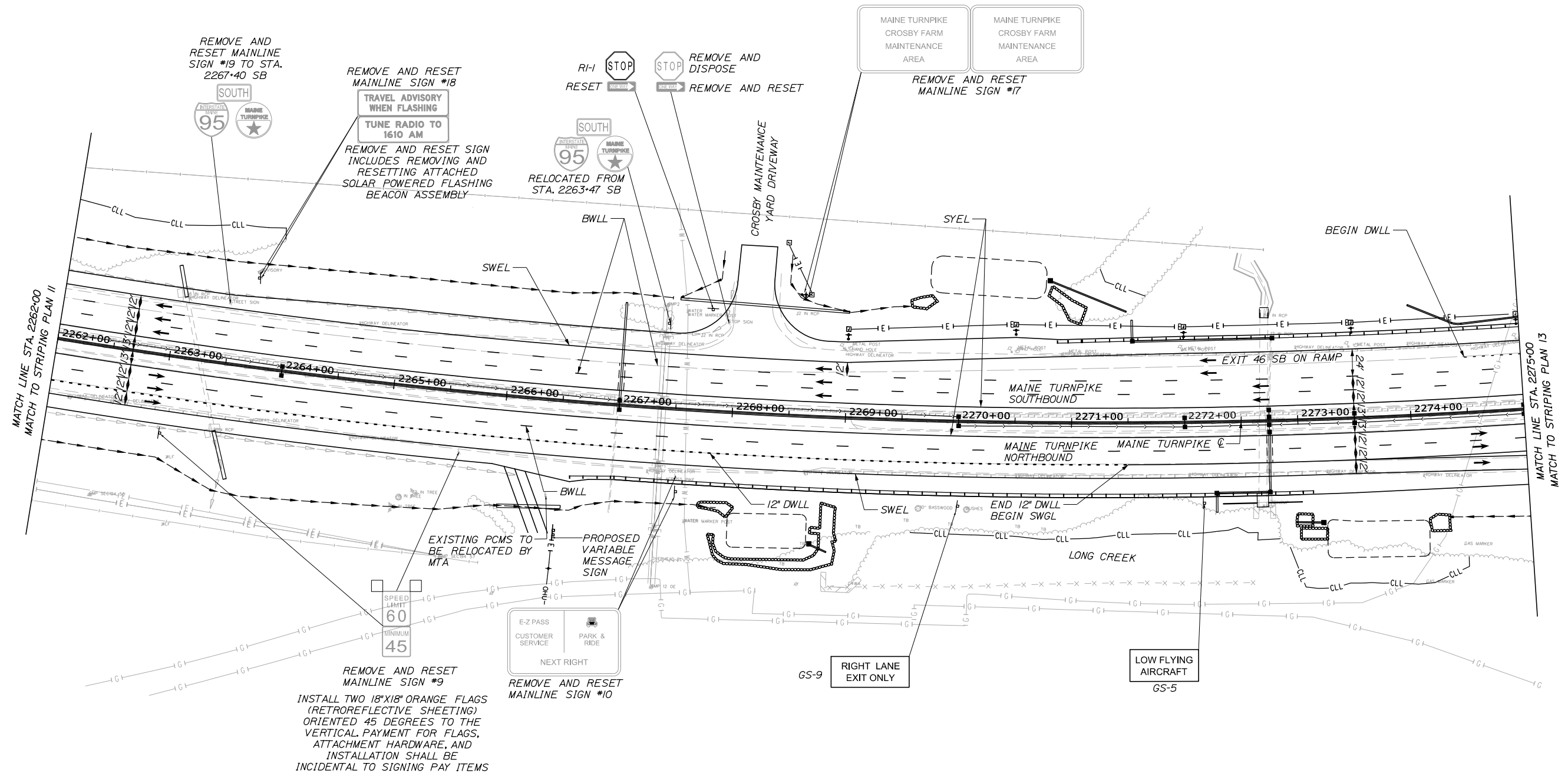
SHEET NUMBER: SPM-11
CONTRACT: 2020.03
83 OF 310

NOTES:

- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.



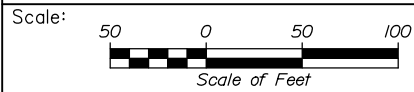
Date: 2/25/2020



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_12.dgn



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 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 SIGNING AND PAVEMENT MARKING
 (12 OF 14)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
Designed	PEM	2/20	Checked SMA 2/20
Drawn	PEM	2/20	In Charge of RAL 2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: SPM-12

84 OF 310

NOTES:

- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.3561.
- DRUMS FROM STA. 2277+00 TO 2294+50 TO BE LEFT IN PLACE FOLLOWING CONSTRUCTION. PAYMENT SHALL BE MADE UNDER ITEM 652.332 DRUM LEFT IN PLACE.

INSTALL TWO 18"x18" ORANGE FLAGS (RETROREFLECTIVE SHEETING) ORIENTED 45 DEGREES TO THE VERTICAL. PAYMENT FOR FLAGS, ATTACHMENT HARDWARE, AND INSTALLATION SHALL BE INCIDENTAL TO SIGNING PAY ITEMS

REMOVE AND RESET MAINLINE SIGN #16 TO STA. 2258+75 SB

RELOCATED FROM STA. 2258+48 SB

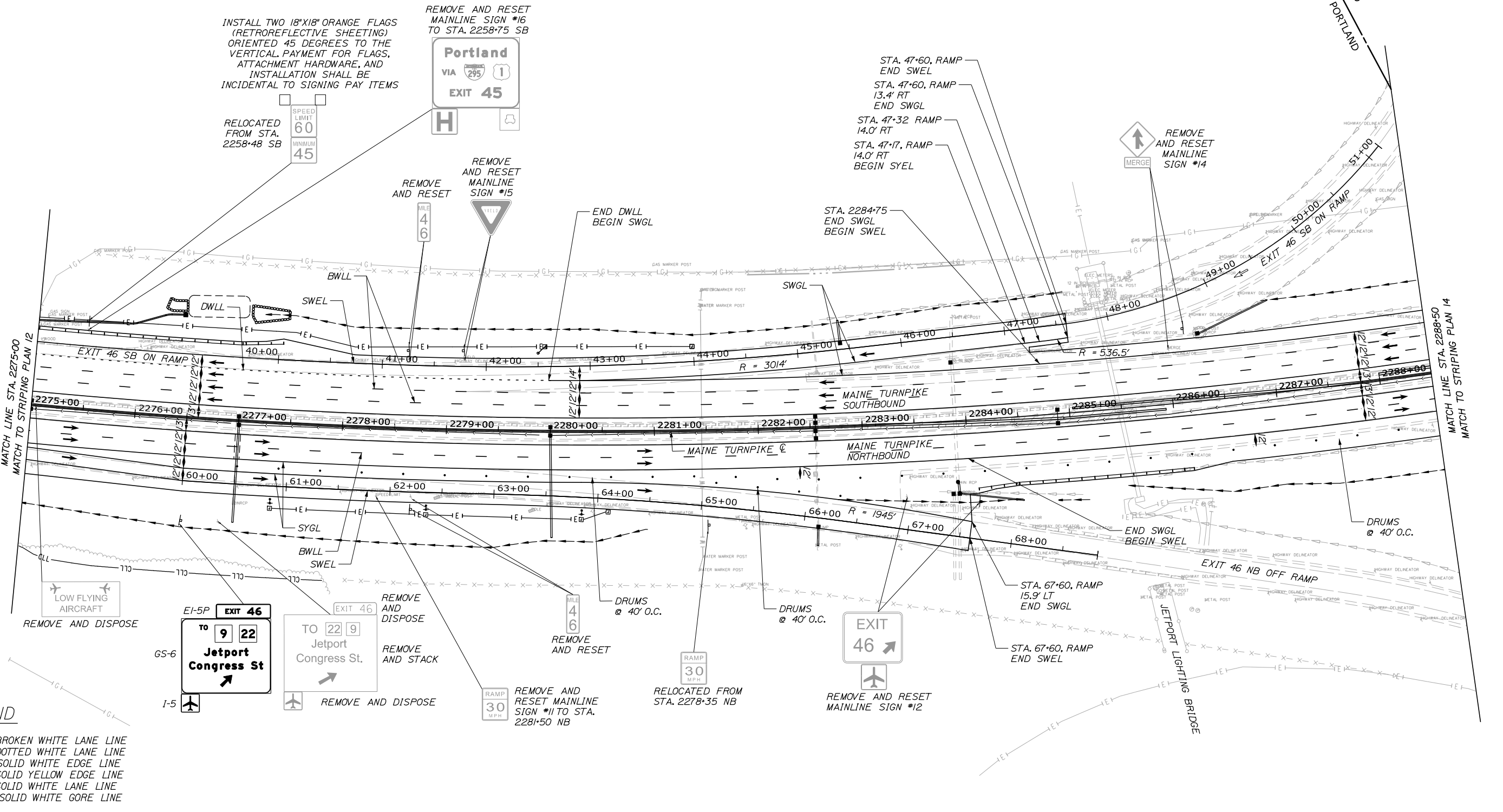


REMOVE AND RESET MAINLINE SIGN #15

STA. 47+60, RAMP END SWEL
 STA. 47+60, RAMP 13.4' RT END SWGL
 STA. 47+32 RAMP 14.0' RT
 STA. 47+17, RAMP 14.0' RT BEGIN SYEL

REMOVE AND RESET MAINLINE SIGN #14

STA. 2284+75 END SWGL BEGIN SWEL

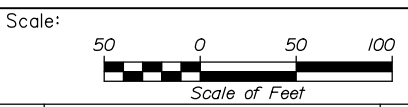


Date: 2/25/2020

LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_13.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

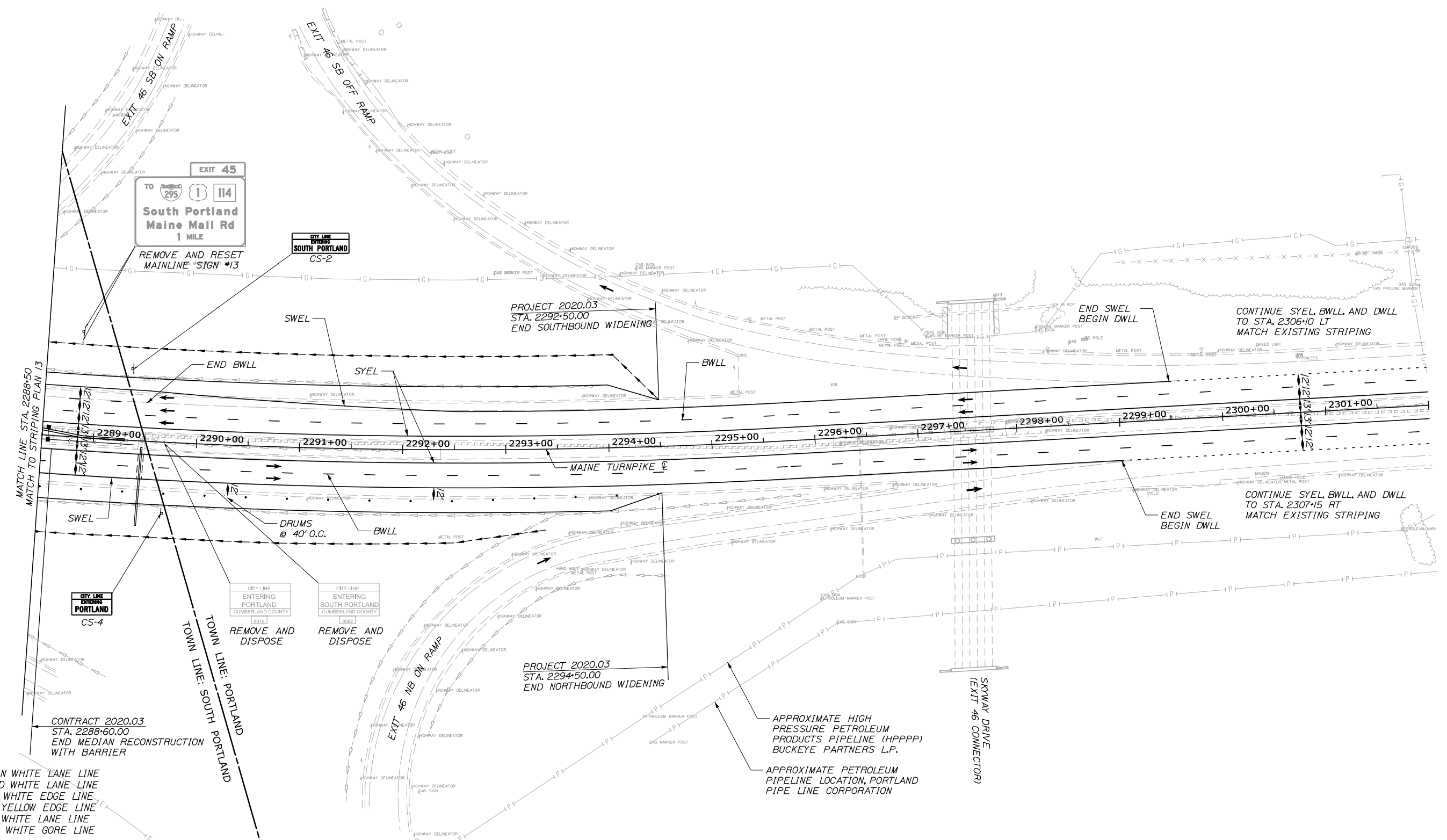
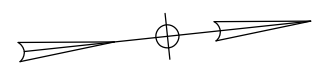
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 SIGNING AND PAVEMENT MARKING
 (13 OF 14)

SHEET NUMBER: SPM-13
 CONTRACT: 2020.03
 85 OF 310

Date: 2/25/2020

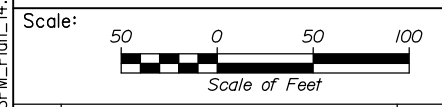
- NOTES:**
- EXISTING MILE MARKERS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND RESET. PAYMENT SHALL BE MADE UNDER ITEM 606.356I.
 - DRUMS FROM STA. 2277+00 TO 2294+50 TO BE LEFT IN PLACE FOLLOWING CONSTRUCTION. PAYMENT SHALL BE MADE UNDER ITEM 652.332 DRUM LEFT IN PLACE.



LEGEND

- BWLL = 6" BROKEN WHITE LANE LINE
- DWLL = 6" DOTTED WHITE LANE LINE
- SWEL = 6" SOLID WHITE EDGE LINE
- SYEL = 6" SOLID YELLOW EDGE LINE
- SWLL = 6" SOLID WHITE LANE LINE
- SWGL = 12" SOLID WHITE GORE LINE

Filename: PAW1_SPM_Plan_14.dgn



Designed by:



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**THE GOLD STAR
MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
SIGNING AND PAVEMENT MARKING
(14 OF 14)

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	By	Date	
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: SPM-14

86 OF 310

REMOVE SIGN SUMMARY

DESCRIPTION	QUANTITY	DESCRIPTION	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	/	2 WOOD POSTS	NB	219+65	54' RT	DISPOSE
	/	1 WOOD POST	NB	2215+55	1' RT	DISPOSE
	/	1 WOOD POST	NB	2215+55	1' RT	DISPOSE
	/	2 H-BEAM POSTS	NB	2231+25	68' RT	DISPOSE STACK
	/	1 WOOD POST	NB	2246+43	59' RT	DISPOSE
	/	WOOD POST	NB	2254+01	0' RT	DISPOSE
	/	2 H-BEAM POSTS	NB	2258+46	75' RT	DISPOSE STACK STACK DISPOSE
	/	2 WOOD POSTS	NB	2275+04	1' RT	DISPOSE
	/	2 H-BEAM POSTS	NB	2276+86	98' RT	DISPOSE STACK DISPOSE
	/	1 WOOD POST	NB	2289+69	0' RT	DISPOSE

DESCRIPTION	QUANTITY	DESCRIPTION	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	PAY ITEM DESCRIPTION
	/	1 WOOD POST	SB	2289+69	0' RT	DISPOSE
	/	1 WOOD POST	SB	2267+93	79' LT	DISPOSE
	/	2 H-BEAM POSTS	SB	2231+94	60' LT	DISPOSE STACK
	/	1 WOOD POST	SB	2210+54	51' LT	DISPOSE DISPOSE
	/	1 WOOD POST	SB	2202+21	68' LT	DISPOSE
	/	1 WOOD POST	SB	2197+43	1' LT	DISPOSE
	/	1 WOOD POST	SB	2185+71	82' LT	DISPOSE

Date: 2/25/2020

Filename: PAW1_Remove and Reset Sign Summary.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 REMOVE AND STACK
 SIGN SUMMARY

SHEET NUMBER: SS-01
 CONTRACT: 2020.03
 87 OF 130

REMOVE AND RESET SIGN SUMMARY

DESCRIPTION	QUANTITY	EXISTING								PROPOSED									
		APPROXIMATE SIGN SIZE			COLOR		DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	NUMBER OF POSTS	POST SIZE	HEIGHT OF POST		FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK- GROUND	LEGEND						LEFT (FEET)	RIGHT (FEET)						
 R&R MAINLINE SIGN #1	1	108	48	36	WHITE	BLACK	NB	2182+35	0' RT	1	W8X24	16.0		30" DIA.	NO	NB	2177+13	0' RT	645.501
 R&R MAINLINE SIGN #2	1	108	48	36	WHITE	BLACK	NB	2182+35	64' RT	1	W8X24	16.0		30" DIA.	NO	NB	2177+13	71' RT	645.502
 R&R MAINLINE SIGN #3	1	66	150	68.75	GREEN	WHITE	NB	2198+17	47' RT	2	W8X18	14.5	13.1	30" DIA.	NO	NB	2190+50	83' RT	645.503
 R&R MAINLINE SIGN #4	1	90	240	150	GREEN	WHITE	NB	2201+75	75' RT	2	W10X22	18.1	16.3	30" DIA.	YES	NB	2205+95	106' RT	645.504
 R&R MAINLINE SIGN #5	1	72	48	29	YELLOW	BLACK	NB	2230+23	52' RT	1	W6X15	14.2	-	24" DIA.	YES	NB	2229+45	69' RT	645.505
 R&R MAINLINE SIGN #6	1	90	144	90	GREEN	WHITE	NB	2240+27	79' RT	2	W8X18	16.1	17.3	30" DIA.	YES	NB	2235+00	77' RT	645.506
 R&R MAINLINE SIGN #7	1	96	48	32	YELLOW	BLACK	NB	2245+15	70' RT	1	W8X24	16.7	-	30" DIA.	YES	NB	2245+15	79' RT	645.507
 R&R MAINLINE SIGN #8	1	60	48	20	WHITE	BLACK	NB	2254+01	0' RT	1	W6X15	13.9	-	24" DIA.	YES	SB	2225+50	69' LT	645.508
 R&R MAINLINE SIGN #9	1	108	48	36	WHITE	BLACK	NB	2265+63	53' RT	1	W8X24	17.8	-	30" DIA.	YES	NB	2263+00	69' RT	645.509
 R&R MAINLINE SIGN #10	1	60	96	40	GREEN	WHITE	NB	2267+54	59' RT	2	W8X18	14.9	17.2	30" DIA.	YES	NB	2267+54	73' RT	645.510

PAYMENT FOR DISCONNECTION AND RECONNECTION OF COMMUNICATION AND POWER TO SIGN SHALL BE INCLUDED UNDER ITEM 645.507

Date: 2/25/2020

Filename: PAW1_Remove and Reset Sign Summary.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:						
HNTB						
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.						
	By	Date		By	Date	
	Designed	PEM	2/20	Checked	SMA	2/20
	Drawn	PEM	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR
MEMORIAL HIGHWAY



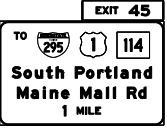








MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
REMOVE AND RESET
SIGN SUMMARY

CONTRACT: 2020.03

SHEET NUMBER: SS-02
88 OF 310

REMOVE AND RESET SIGN SUMMARY

DESCRIPTION	QUANTITY	EXISTING									PROPOSED								
		APPROXIMATE SIGN SIZE			COLOR		DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	NUMBER OF POSTS	POST SIZE	HEIGHT OF POST		FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK- GROUND	LEGEND						LEFT (FEET)	RIGHT (FEET)						
 R&R MAINLINE SIGN #11	1	48	36	12	YELLOW	BLACK	NB	2278+35	66' RT	1	W6X9	13.5	-	24" DIA.	YES	NB	2281+50	91' RT	645.511
 R&R MAINLINE SIGN #12	1	90	72	36.25	GREEN	WHITE	NB	2283+40	70' RT	1	W8X24	15.5	-	30" DIA.	YES	NB	2284+07	79' RT	645.512
 R&R MAINLINE SIGN #13	1	174	228	252	GREEN	WHITE	SB	2288+84	92' LT	2	W14X30	19.0	24.7	36" DIA.	YES	SB	2288+84	103' LT	645.513
 R&R MAINLINE SIGN #14	1	72	48	24	YELLOW	BLACK	SB	2286+00	53' LT	1	W6X15	16.7	-	24" DIA.	YES	SB	2286+16	70' LT	645.514
 R&R MAINLINE SIGN #15	1	60X60X60		10.82	WHITE	RED	SB	2279+16	69' LT	1	W6X9	12.8	-	-	YES	SB	2279+16	77' LT	645.515
 R&R MAINLINE SIGN #16	1	102	126	89.25	GREEN	WHITE	SB	2275+49	76' LT	2	W8X18	18.6	17.4	30" DIA.	YES	SB	2258+75	73' LT	645.516
 R&R MAINLINE SIGN #17	2	72	96	48	GREEN	WHITE	SB	2268+60	107' LT	4	6X6 WOOD	13.0	13.0	-	-	SB	2268+60	107' LT	645.517
 R&R MAINLINE SIGN #18	1	18	54	6.75	BLACK	WHITE	SB	2267+92	79' LT	-	-	-	-	-	YES	SB	2267+78	91' LT	645.109
 R&R MAINLINE SIGN #18	1	84	144	84	YELLOW	BLACK	SB	2263+71	80' LT	2	W8X18	18.0	16.8	30" DIA.	YES	SB	2263+70	79' LT	645.518
 R&R MAINLINE SIGN #19	1	54	72	22.5	-	-	SB	2263+47	53' LT	1	W8X24	13.7	-	30" DIA.	YES	SB	2267+40	76' LT	645.519
 R&R MAINLINE SIGN #19	1	30	42	8.75	-	-	SB	2218+38	89' LT	MOUNT TO REMOVE AND RESET LIGHT STANDARD ATTACHMENT HARDWARE SHALL BE INCIDENTAL TO SIGNING PAY ITEMS					SB	2218+38	89' LT	645.109	

REMOVE AND RESET SIGN ON WOOD POSTS WITH SIGN FACES AT APPROXIMATELY 45 DEGREE TO MAINLINE (SAME AS EXISTING CONDITION)

REMOVE AND RESET SIGN INCLUDES RESETTING ATTACHED SOLAR POWERED FLASHING BEACON ASSEMBLY

Date: 2/25/2020

Filename: PAW1_Remove and Reset Sign Summary.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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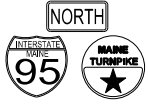
 THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
REMOVE AND RESET SIGN SUMMARY

SHEET NUMBER: SS-03
CONTRACT: 2020.03
89 OF 310

REMOVE AND RESET SIGN SUMMARY

DESCRIPTION	QUANTITY	EXISTING								PROPOSED									
		APPROXIMATE SIGN SIZE			COLOR		DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET	NUMBER OF POSTS	POST SIZE	HEIGHT OF POST		FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK- GROUND	LEGEND						LEFT (FEET)	RIGHT (FEET)						
 R&R MAINLINE SIGN #20	1	108	48	36	WHITE	BLACK	SB	2258+48	51' LT	1	W8X24	19.3	-	30" DIA.	YES	SB	2275+49	84' LT	645.520
 R&R MAINLINE SIGN #21	1	204	228	270	GREEN	WHITE	SB	2251+96	82' LT	2	W14X30	26.1	25.7	36" DIA.	YES	SB	2253+75	89' LT	645.521
 R&R MAINLINE SIGN #22	1	84	144	84	BROWN	WHITE	SB	2248+15	81' LT	2	W8X18	19.0	17.9	30" DIA.	YES	SB	2247+08	79' LT	645.522
 R&R MAINLINE SIGN #23	1	60	72	30	GREEN	WHITE	SB	2217+68	63' LT	1	W8X24	14.4	-	30" DIA.	YES	SB	2217+59	73' LT	645.523
 R&R MAINLINE SIGN #24	1	60x60x60		10.93	WHITE	RED	SB	2208+75	65' LT	1	6X6 WOOD	11.6	-	-	-	SB	2208+75	72' LT	645.524
 R&R MAINLINE SIGN #25	1	54	72	22.5	MISC	MISC	SB	2198+10	58' LT	1	W8X24	13.9	-	30" DIA.	YES	SB	2198+10	82' LT	645.525
 R&R MAINLINE SIGN #26	1	174	192	216	GREEN	WHITE	SB	2182+58	92' LT	2	W12X26	18.7	22.9	36" DIA.	YES	SB	2182+58	102' LT	645.526
 R&R MAINLINE SIGN #27	1	108	48	36	WHITE	BLACK	SB	2178+27	53' LT	1	W8X24	18.4	-	30" DIA.	YES	SB	2178+42	71' LT	645.527
 R&R MAINLINE SIGN #29	1	54	72	22.5	-	-	NB	2190+48	53' RT	1	W8X24	13.7	-	30" DIA.	YES	NB	2193+00	71' RT	645.529

Date: 2/25/2020

Filename: PAW1_Remove and Reset Sign Summary.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
REMOVE AND RESET
SIGN SUMMARY

SHEET NUMBER: SS-04
CONTRACT: 2020.03
90 OF 310

PROPOSED SIGN SUMMARY








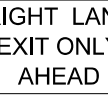




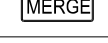

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)							
D9-7		1	30	30	6.25	BLUE	WHITE	-	-	-	-	-	-	NB	2255+00	87' RT	645.271		
D9-9		1	30	30	6.25	BLUE	WHITE	-	-	-	-	-	-	NB	2255+00	87' RT	645.271		
E5-IP (45)		2	30	114	23.75 (47.5)	GREEN	WHITE	-	-	-	-	-	-	NB SB	2198+89 2233+75	89' RT 89' LT	645.251		
E5-IP (46)		3	30	114	23.75 (71.25)	GREEN	WHITE	-	-	-	-	-	-	NB NB NB	2229+05 2255+00 2276+50	80' RT 87' RT 99' RT	645.251		
GS-1		1	30	126	26.25	BLUE	WHITE	-	-	-	-	-	-	NB	2198+89	89' RT	645.251		
GS-2		1	156	228	247	GREEN	WHITE	3	W12X26	22.8	23.7	24.7	36" DIA.	YES	NB	2198+89	89' RT	645.251	
GS-3		1	144	186	186	GREEN	WHITE	2	W12X26	21.8	-	21.6	36" DIA.	YES	NB	2229+05	80' RT	645.251	
GS-4		1	144	186	186	GREEN	WHITE	2	W14X30	25.6	-	27.1	36" DIA.	YES	NB	2255+00	87' RT	645.251	
GS-5		1	42	108	31.5	YELLOW	BLACK	2	W8X18	13.2	-	16.7	30" DIA.	YES	NB	2272+05	72' RT	645.271	
GS-6		1	156	186	201.5	GREEN	WHITE	2	W14X30	24.5	-	21.9	36" DIA.	YES	NB	2276+50	99' RT	645.251	
GS-8		1	90	240	150	GREEN	WHITE	2	W10X22	19.3	-	18.6	30" DIA.	YES	SB	2240+41	89' LT	645.251	
GS-9		2	54	132	49.5 (99)	YELLOW	BLACK	2 2	6x6 WOOD 6x6 WOOD	13.5 14.7	- -	14.6 18.4	- -	- -	NB NB	2257+50 2270+00	73' RT 75' RT	645.271 645.271	PAYMENT FOR WOOD POST SHALL BE INCIDENTAL TO PAY ITEM 645.271
GS-10		1	156	228	247	GREEN	WHITE	2	W14X30	24.7	-	24.7	36" DIA.	YES	SB	2233+75	89' LT	645.251	
I-5		3	30	30	6.25 (18.75)	GREEN	WHITE	-	-	-	-	-	-	NB NB NB	2229+05 2255+00 2276+50	80' RT 87' RT 99' RT	645.271		

Date: 2/25/2020

Filename: PAW1_Remove and Reset Sign Summary.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		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MM 43.0 TO MM 46.4 PROPOSED SIGN SUMMARY													
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No.	Revision	By	Date																						
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By	Date	By	Date																						
Designed	PEM 2/20	Checked	SMA 2/20																						
Drawn	PEM 2/20	In Charge of	RAL 2/20																						

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (NB-NORTHBOUND) (SB-SOUTHBOUND)	LOCATION	OFFSET (FROM BASELINE TO SIGN CENTER)	PAY ITEM NUMBER	COMMENTS
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACK-GROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)							
MTA-1		1	36	36	9	GREEN	WHITE	1	W8X24	-	15.2	-	30" DIA.	YES	NB	2250+00	85' RT	645.271	
MTA-2		1	36	36	9	BLUE	WHITE	-	-	-	-	-	-	-	NB	2250+00	85' RT	645.271	
MTA-3		4	60	54	22.5 (90)	WHITE	BLACK	4	W6X15	-	12	-	24" DIA.	NO	SB SB NB SB	2/24+89 2/78+42 2/249+94 2/225+33	0' 0' 0' 0'	645.271 645.271 645.271 645.271	
M3-1		1	18	36	4.5	BLUE	WHITE	-	-	-	-	-	-	-	NB	2250+00	85' RT	645.271	
RI-1		1	36	36	9	RED	WHITE	1	W6X9	-	16.0	-	24" DIA.	YES	SB	2267+78	91' LT	645.271	
RI-2		1	60X60X60		10.82	RED	WHITE	1	W6X9	-	12.0	-	24" DIA.	YES	NB	2232+95	73' RT	645.271	
R3-8b (MODIFIED)		1	36	60	15	WHITE	BLACK	1	6X6 WOOD	-	13.3	-	-	-	NB	2260+50	70' RT	645.271	PAYMENT FOR WOOD POST SHALL BE INCIDENTAL TO PAY ITEM 645.271
W9-7		1	72	132	66	YELLOW	BLACK	2	6X6 WOOD	15.4	-	16.7	-	-	NB	2252+20	76' RT	645.271	PAYMENT FOR WOOD POST SHALL BE INCIDENTAL TO PAY ITEM 645.271
CS-1		2	63	48	21 (42)	RED/WHITE	WHITE/BLACK	1 1	W6X15 W6X15	- -	14.7 14.5	- -	24" DIA. 24" DIA.	YES YES	NB SB	2241+00 2/188+50	72' RT 69' LT	645.271 645.271	
CS-2		2	27	75	14.1 (28.2)	GREEN	WHITE	1 1	W8X24 W8X24	- -	11.4 11.4	- -	30" DIA. 30" DIA.	YES YES	NB SB	2215+64 2/289+35	71' RT 69' LT	645.271 645.271	
CS-3		1	27	60	11.25	GREEN	WHITE	1	W6X15	-	11.2	-	24" DIA.	YES	SB	2215+65	70' LT	645.271	
CS-4		1	27	48	9	GREEN	WHITE	1	6X6 WOOD	-	11.2	-	-	-	NB	2289+68	69' RT	645.271	PAYMENT FOR WOOD POST SHALL BE INCIDENTAL TO PAY ITEM 645.271
CS-5		1	24	36	6.0	YELLOW	BLACK	-	-	-	-	-	-	-	SB	2211+46	70' LT	645.271	
W4-1		1	48	48	16.0	YELLOW	BLACK	1	W6X15	-	16.7	-	24" DIA.	YES	SB	2211+46	70' LT	645.271	

Date: 2/25/2020

Filename: PAW1_Remove and Reset Sign Summary.dgn

Scale: **NOT TO SCALE**

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	PEM	2/20	Checked	SMA	2/20
Drawn	PEM	2/20	In Charge of	RAL	2/20

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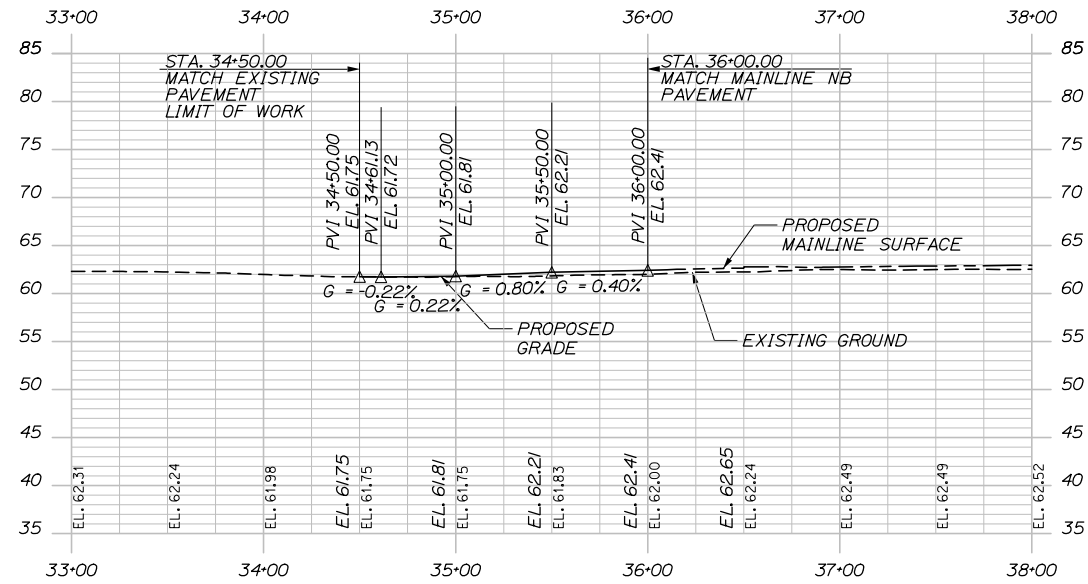
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

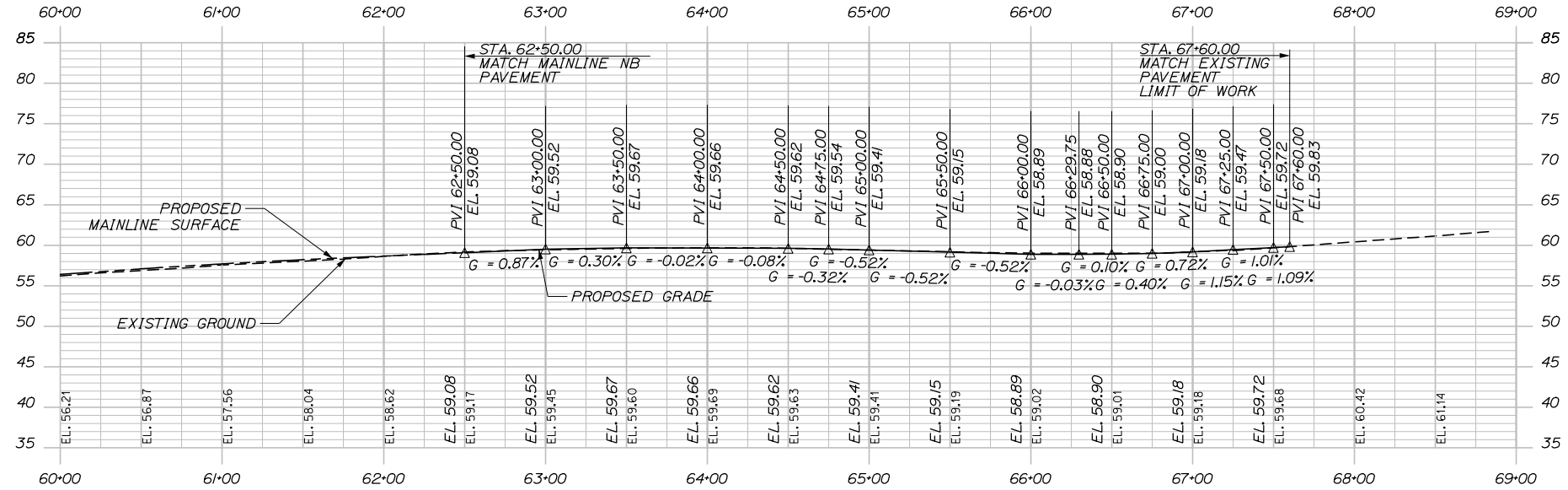
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 PROPOSED SIGN SUMMARY

SHEET NUMBER: SS-06
 CONTRACT: 2020.03
 92 OF 310

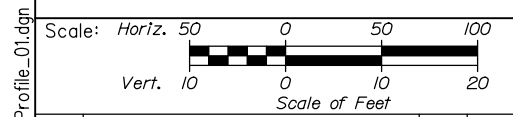
Date: 2/25/2020



45 NB ON RAMP PROFILE



46 NB OFF RAMP PROFILE



Designed by:



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 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP PROFILE (1 OF 2)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
Designed	By	Date	Checked	By	Date
	JS	2/20		TRS	2/20
Drawn	By	Date	In Charge of	By	Date
	GW	2/20		RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

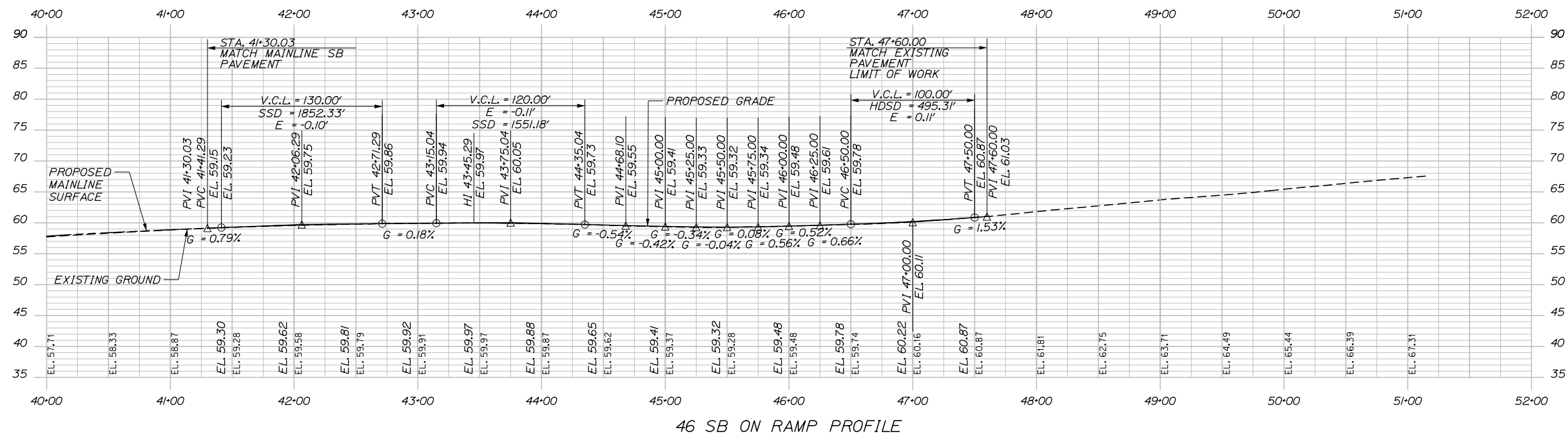
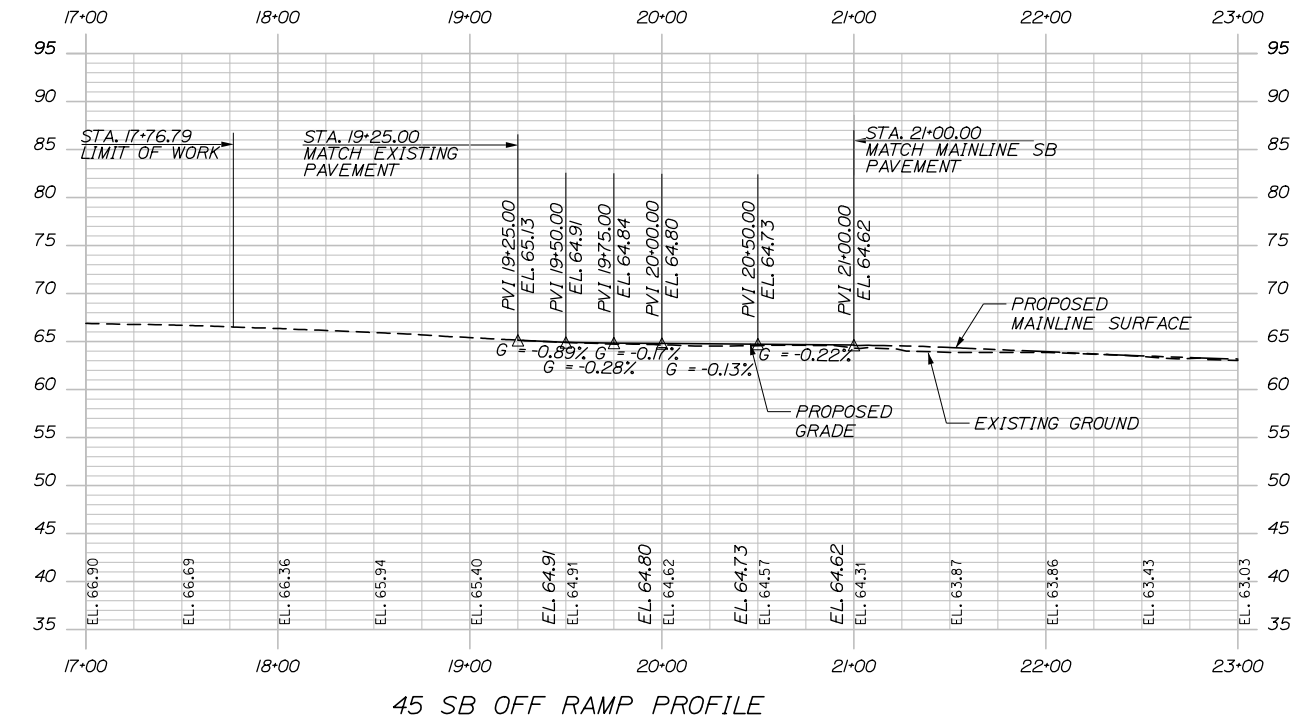
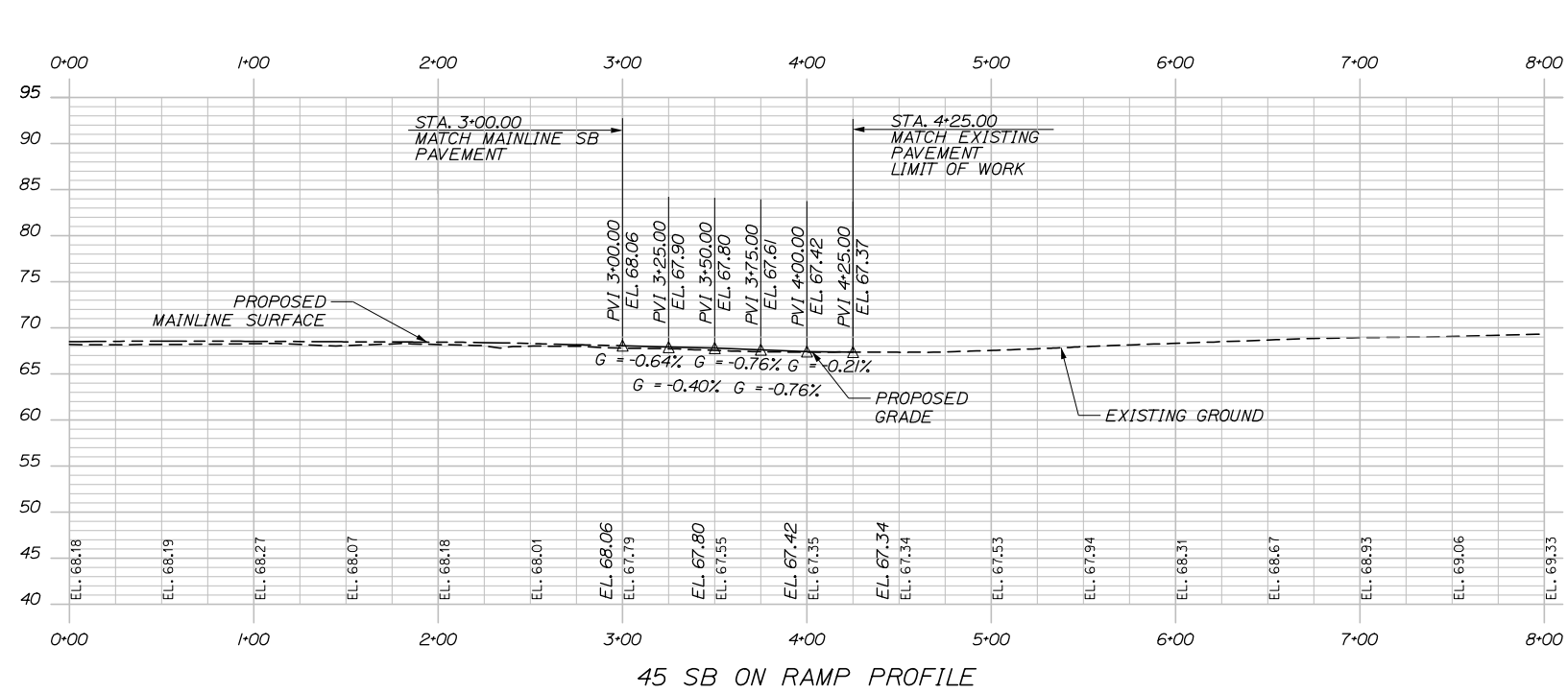
CONTRACT: 2020.03

SHEET NUMBER: PR-01

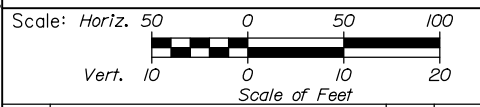
93 OF 310

Filename: PAW1_Profile_01.dgn

Date: 2/25/2020



Filename: PAW1_Profile_02.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
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MAINE TURNPIKE

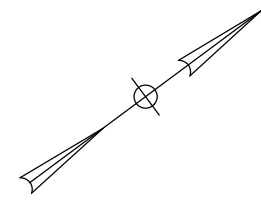
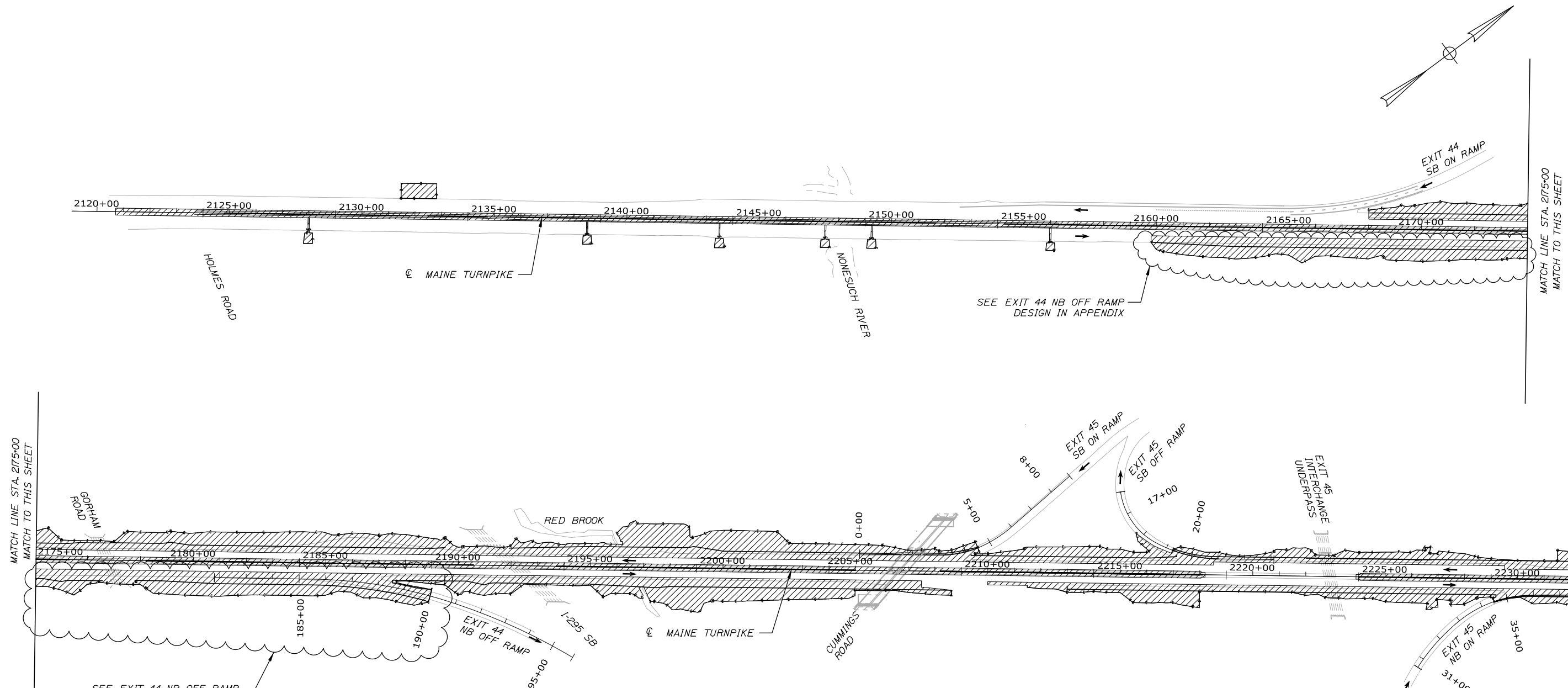
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP PROFILE (2 OF 2)

SHEET NUMBER: PR-02
 CONTRACT: 2020.03
 94 OF 310

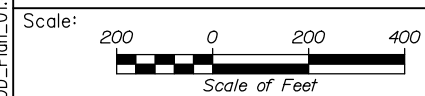
Date: 2/25/2020



- NOTES:**
1. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
 2. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
 3. AN ADDITIONAL THREE ACRES HAS BEEN ESTIMATED FOR CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.
 4. ALL LOD REVISIONS MUST BE REVIEWED AND APPROVED BY MTA.
 5. TOTAL LIMIT OF DISTURBANCE INCLUDES EXIT 44 NB OFF RAMP TOTALS.

LEGEND
 THIS CONTRACT LIMIT OF DISTURBANCE (56 ACRES)

Filename: PAW1_LOD_Plan_01.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	ALZ	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909



**THE GOLD STAR
 MEMORIAL HIGHWAY**

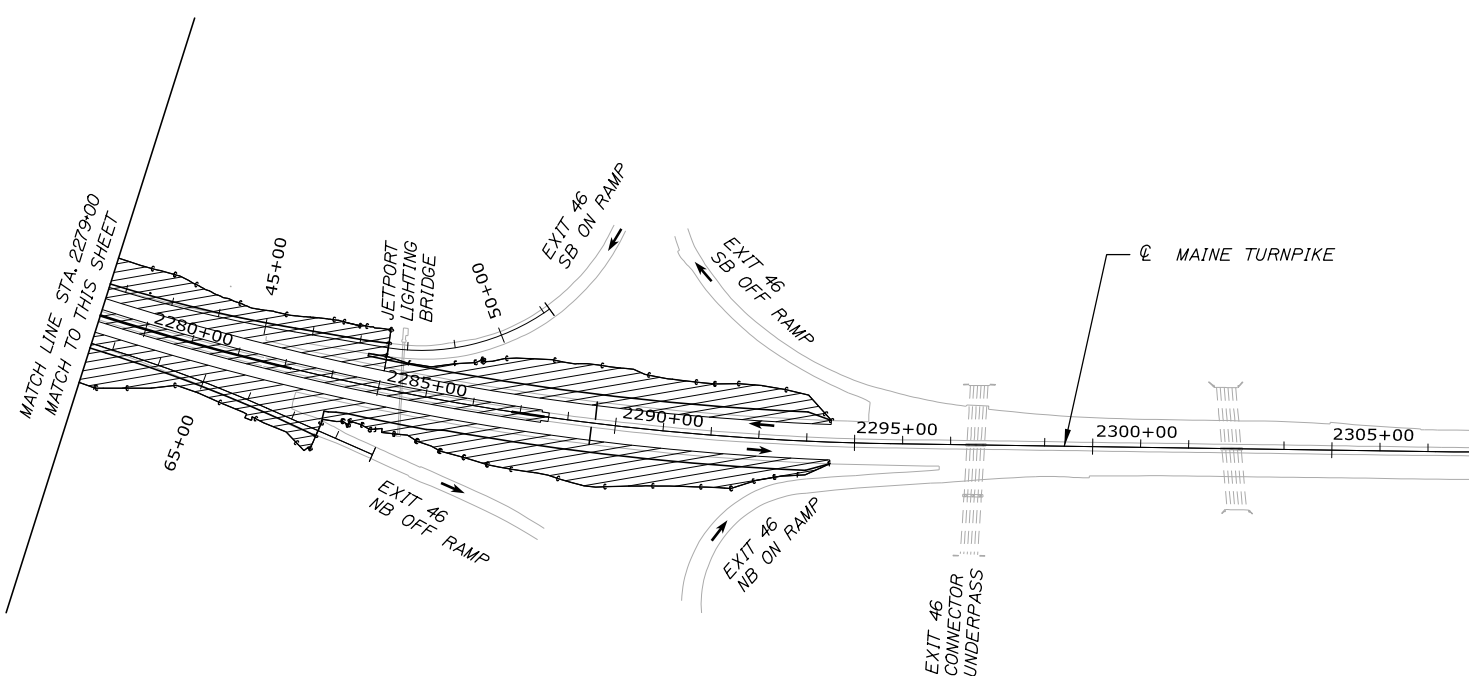
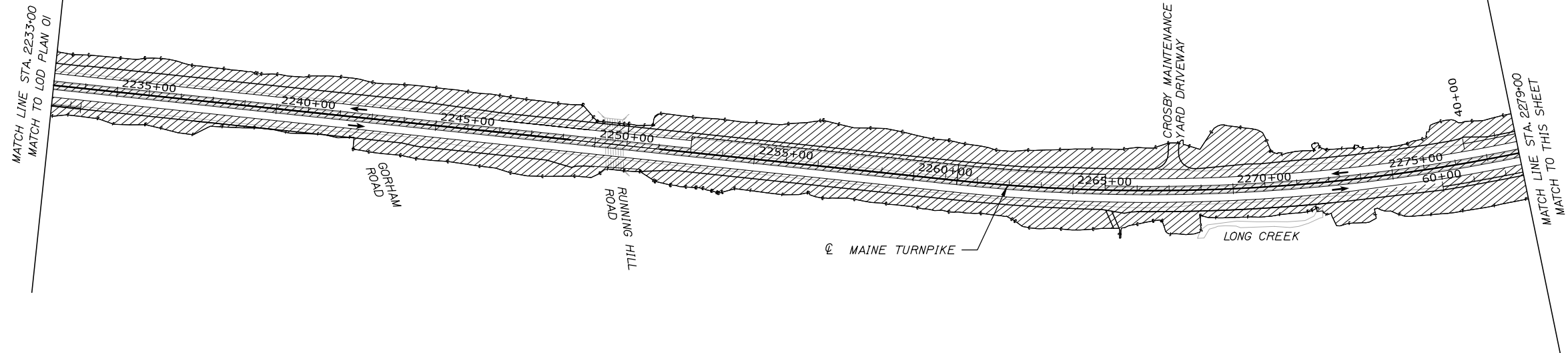
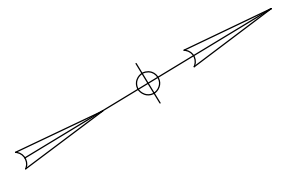
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 LIMIT OF DISTURBANCE (1 OF 2)

CONTRACT: 2020.03

SHEET NUMBER: LOD-01
 95 OF 310

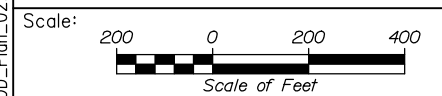
Date: 2/25/2020



- NOTES:**
1. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
 2. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
 3. AN ADDITIONAL THREE ACRES HAS BEEN ESTIMATED FOR CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.
 4. ALL LOD REVISIONS MUST BE REVIEWED AND APPROVED BY MTA.
 5. TOTAL LIMIT OF DISTURBANCE INCLUDES EXIT 44 NB OFF RAMP TOTALS.

LEGEND
 THIS CONTRACT LIMIT OF DISTURBANCE (56 ACRES)

Filename: PAW1_LOD_Plan_02.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	ALZ	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

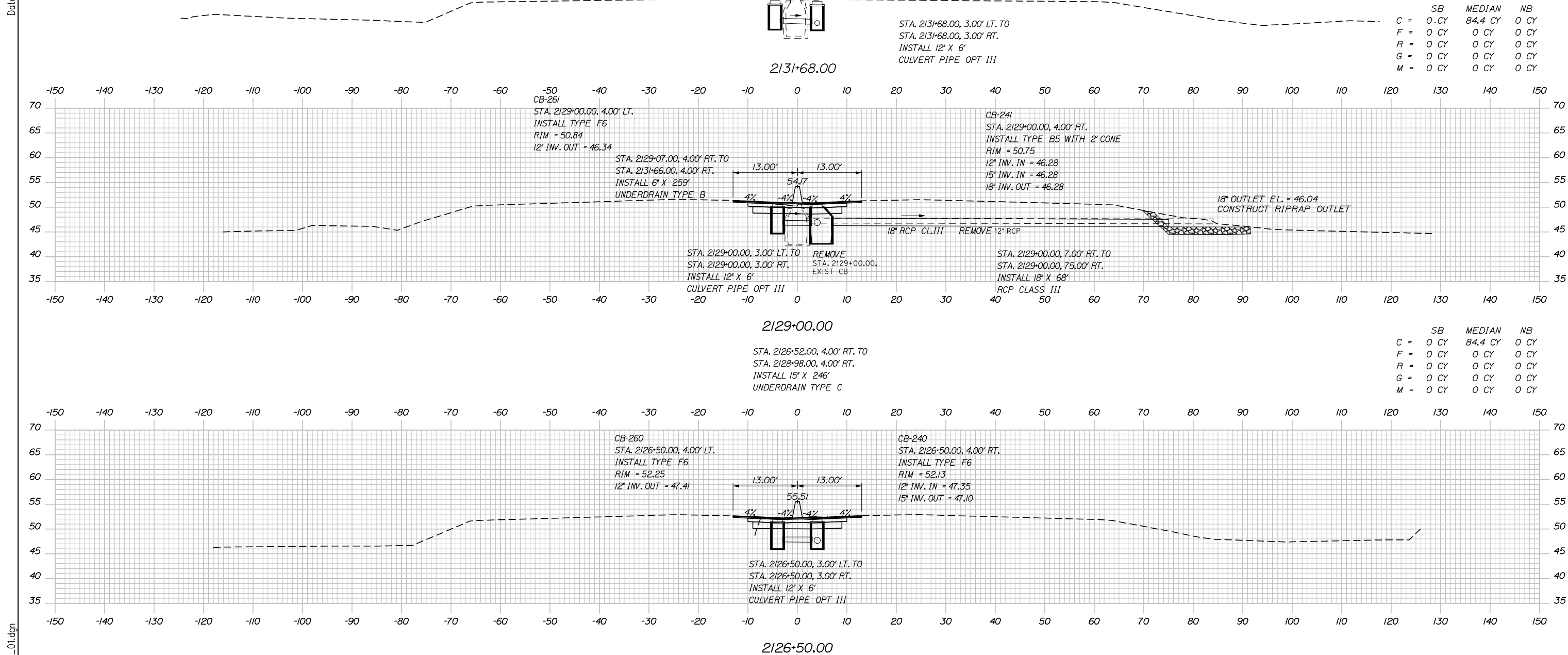
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 LIMIT OF DISTURBANCE (2 OF 2)

CONTRACT: 2020.03

SHEET NUMBER: LOD-02

96 OF 310

Date: 2/25/2020



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

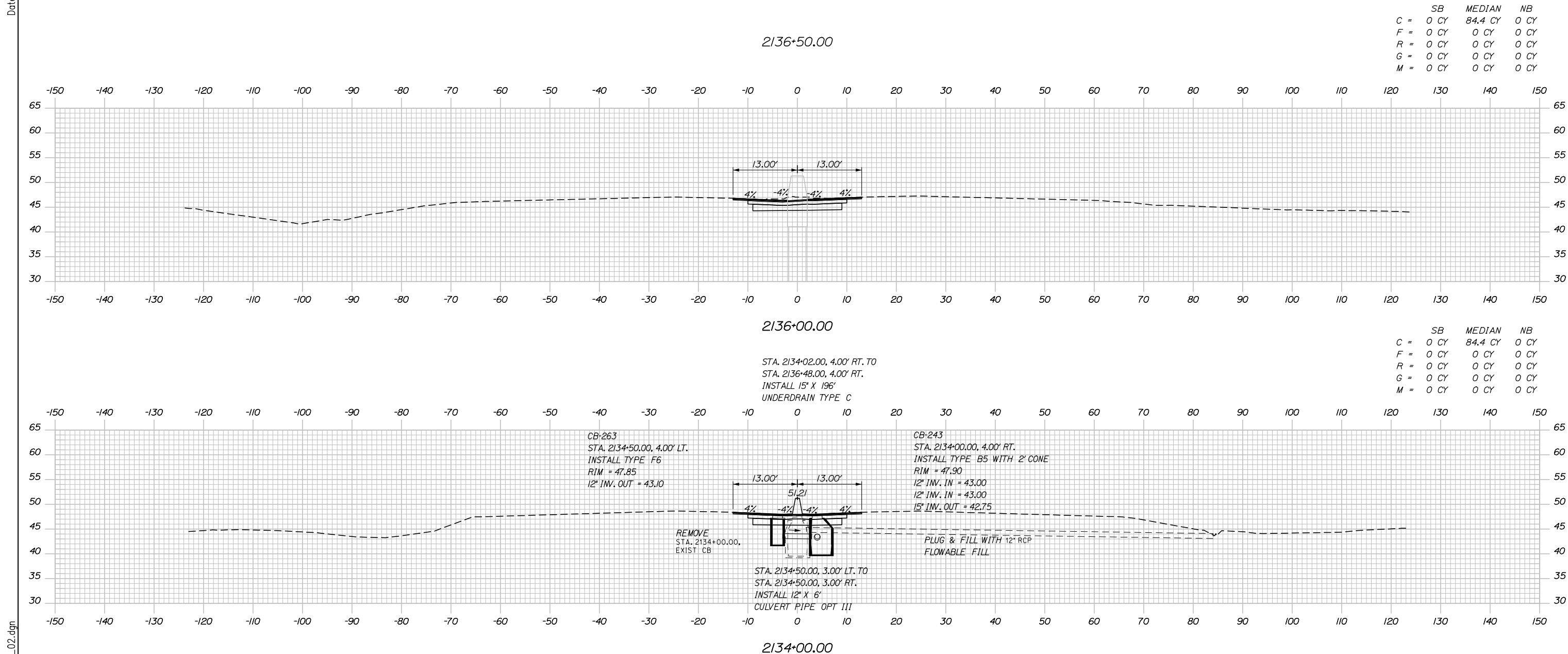
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE
STA. 2126+50 TO STA. 2129+00

SHEET NUMBER: XS-01
CONTRACT: 2020.03
97 OF 310

Filename: PAW1_Cross_Section_01.dgn

Date: 2/25/2020



Scale:

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

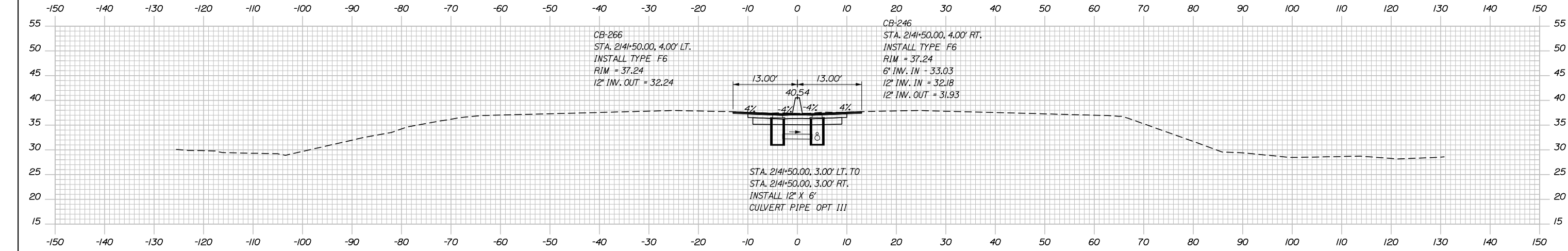
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2134+00 TO STA. 2136+00

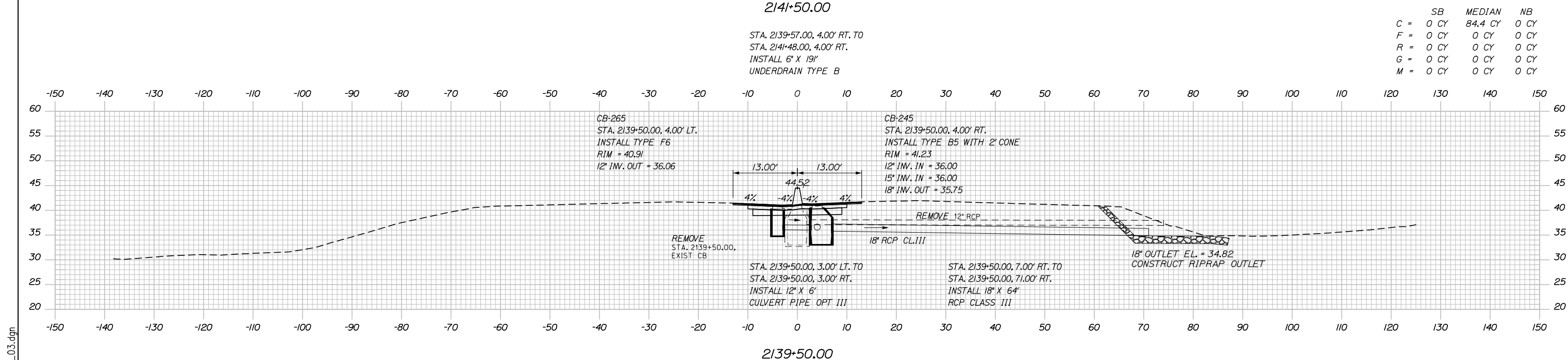
SHEET NUMBER: XS-02
 CONTRACT: 2020.03
 98 OF 310

Filename: PAW1_Cross_Section_02.dgn

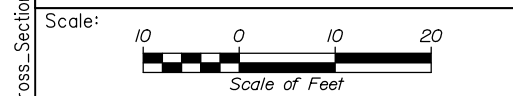
Date: 2/25/2020



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F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	0 CY	84.4 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY




Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

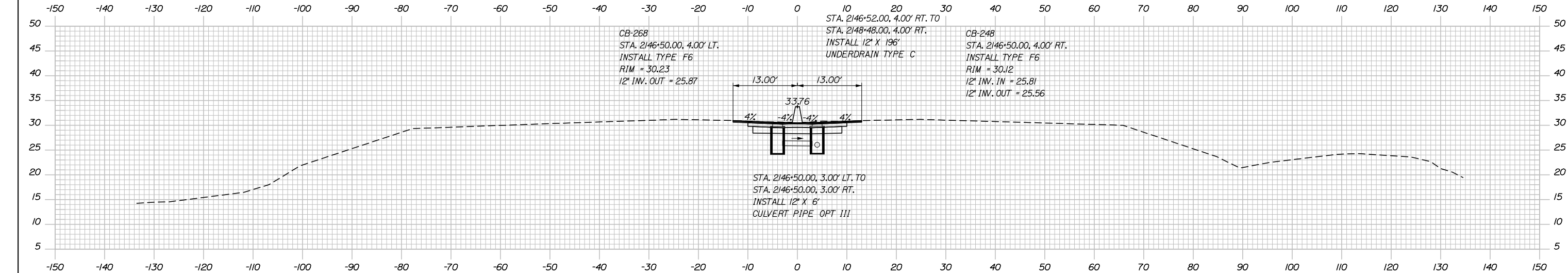
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE
STA. 2139+50 TO STA. 2141+50

SHEET NUMBER: XS-03
99 OF 310

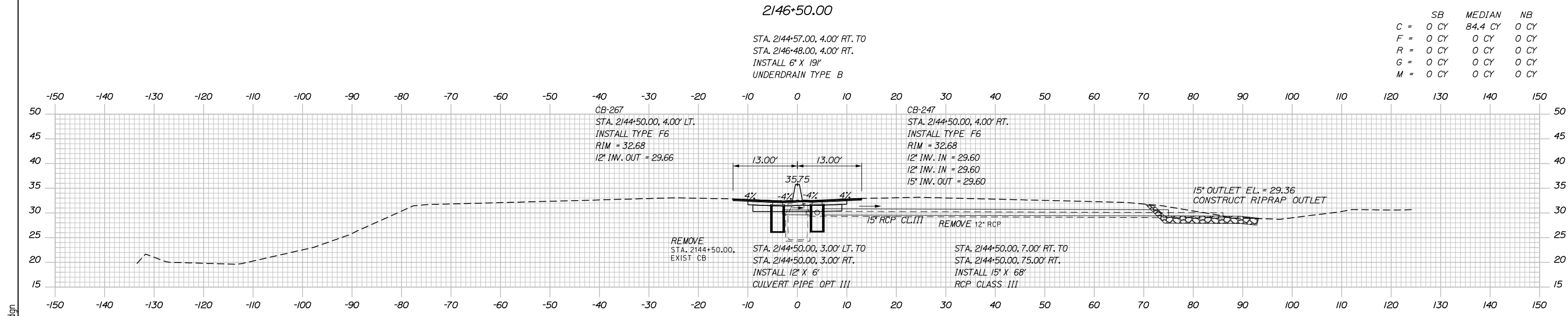
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_03.dgn

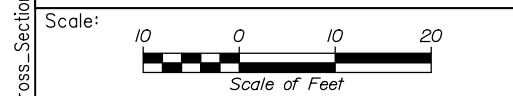
Date: 2/25/2020



	SB	MEDIAN	NB
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F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	0 CY	84.4 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

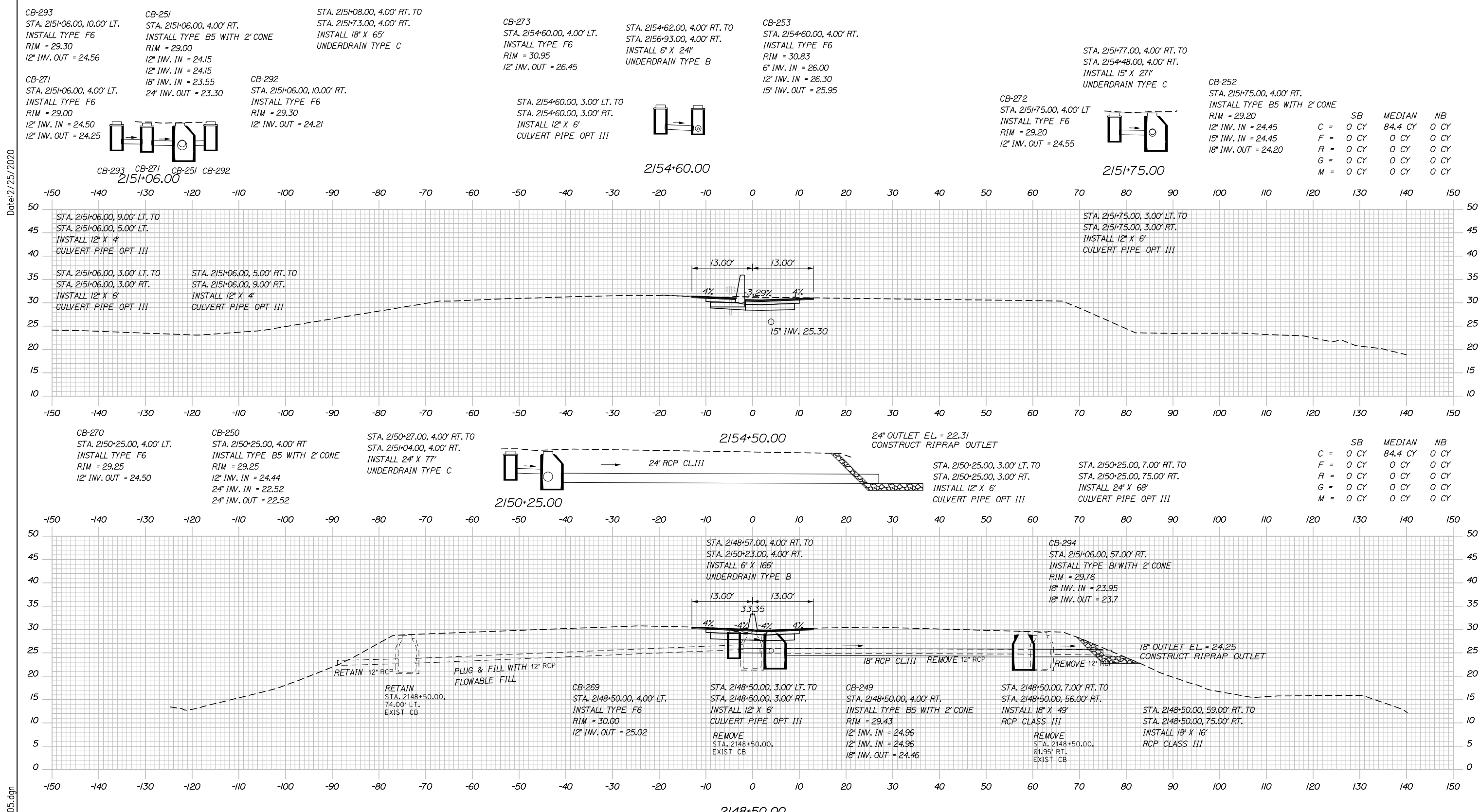
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2144+50 TO STA. 2146+50

SHEET NUMBER: XS-04
 100 OF 310

CONTRACT: 2020.03

Filename: PAW1_Cross_Section_04.dgn

Date: 2/25/2020



Scale: 1" = 20'

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

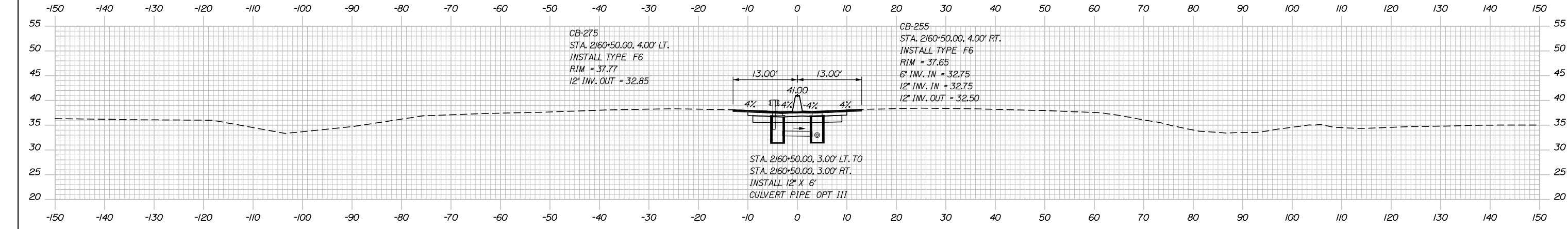
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2148+50 TO STA. 2154+50

SHEET NUMBER: XS-05
 101 OF 310

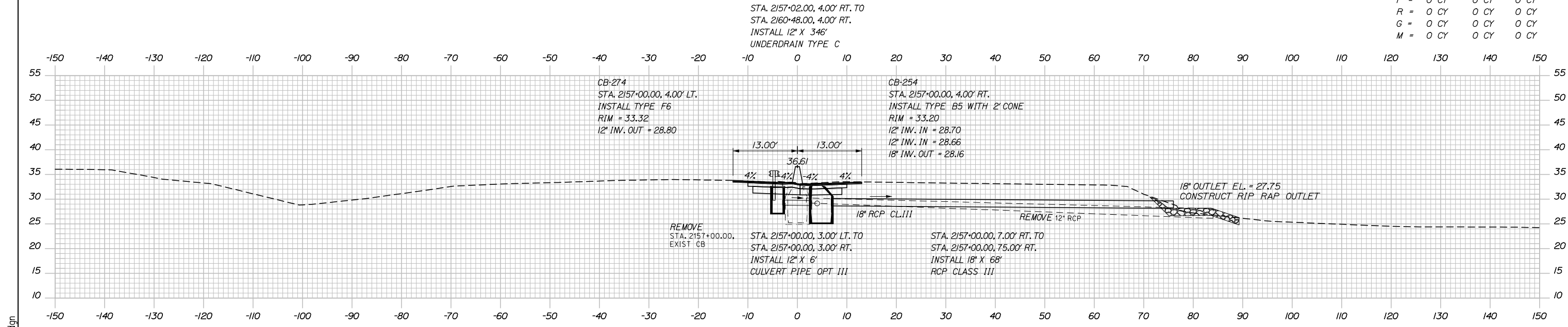
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Date: 2/25/2020



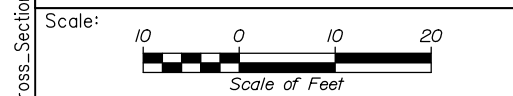
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R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



2157+00.00

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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



Designed by:


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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE
STA. 2157+00 TO STA. 2160+50

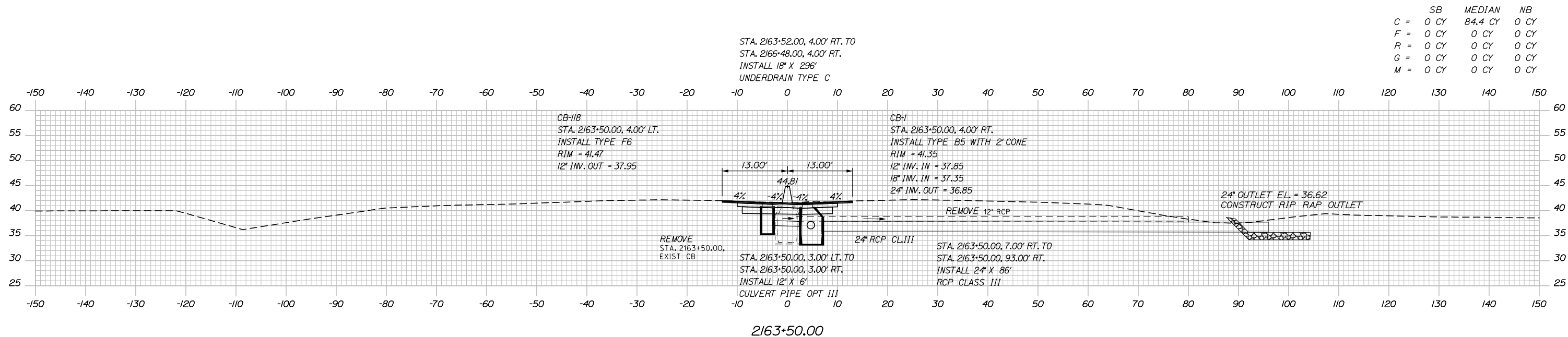
SHEET NUMBER: XS-06
102 OF 310

CONTRACT: 2020.03

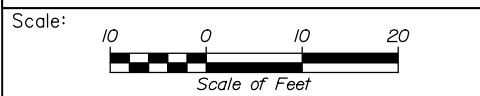
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Date: 2/25/2020

Filename: PAW1_Cross_Section_07.dgn



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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

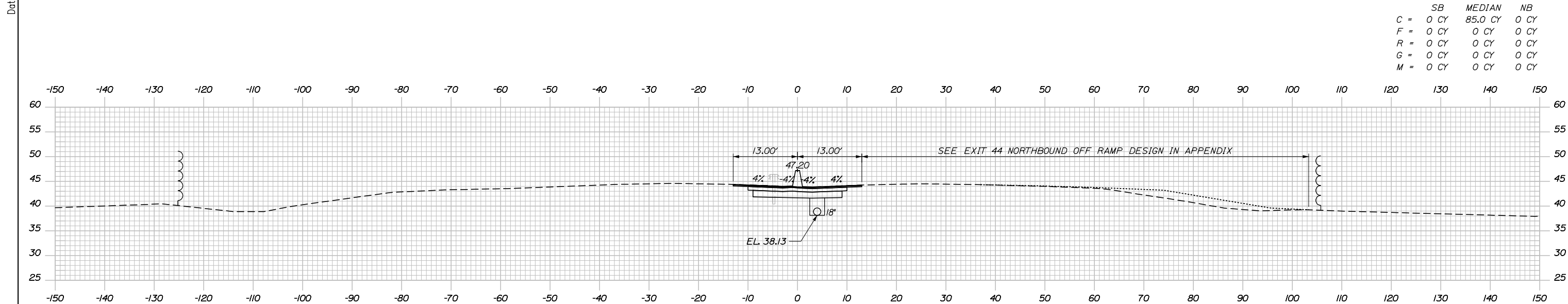
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2163+50 TO STA. 2163+50

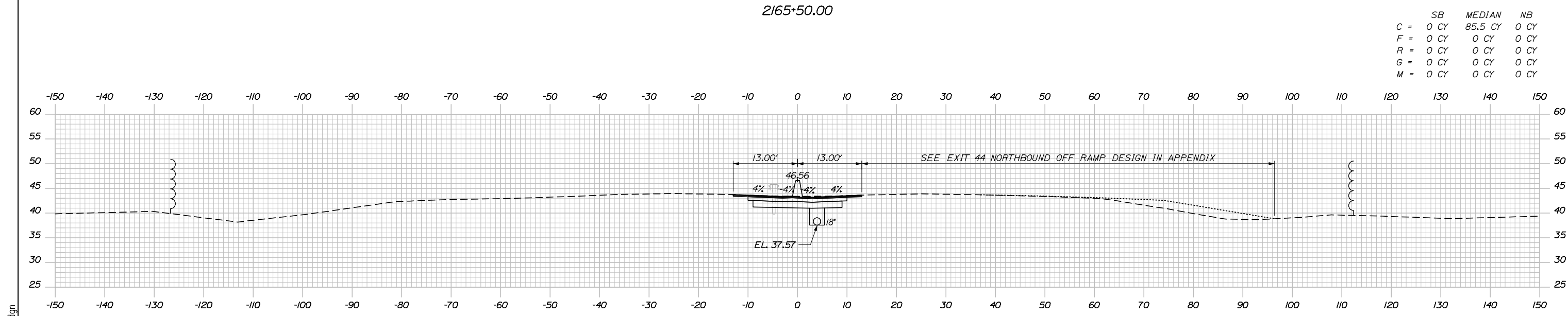
SHEET NUMBER: XS-07
 103 OF 310

CONTRACT: 2020.03

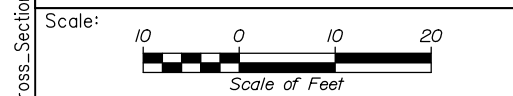
Date: 2/25/2020



	SB	MEDIAN	NB
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R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

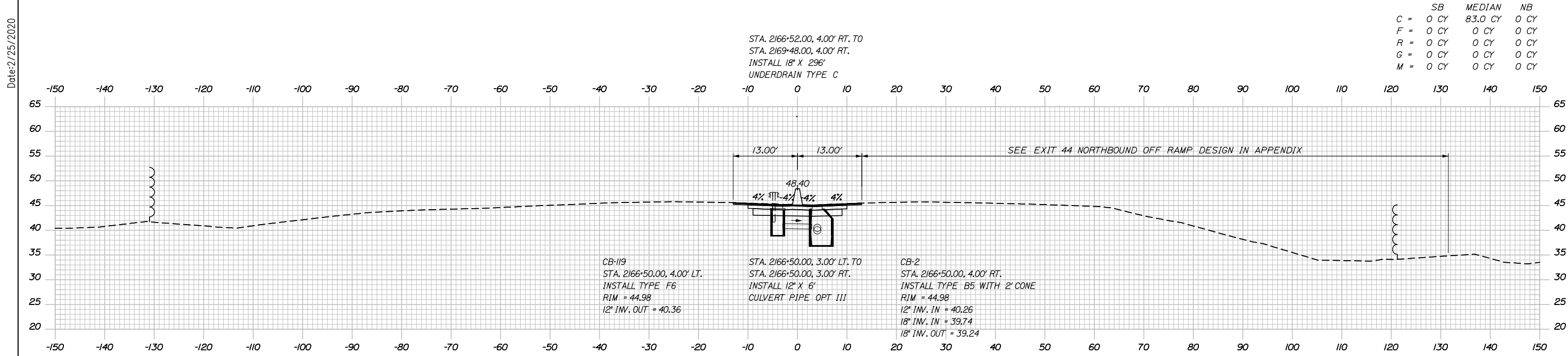
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2165+00 TO STA. 2165+50

SHEET NUMBER: XS-08
 104 OF 310

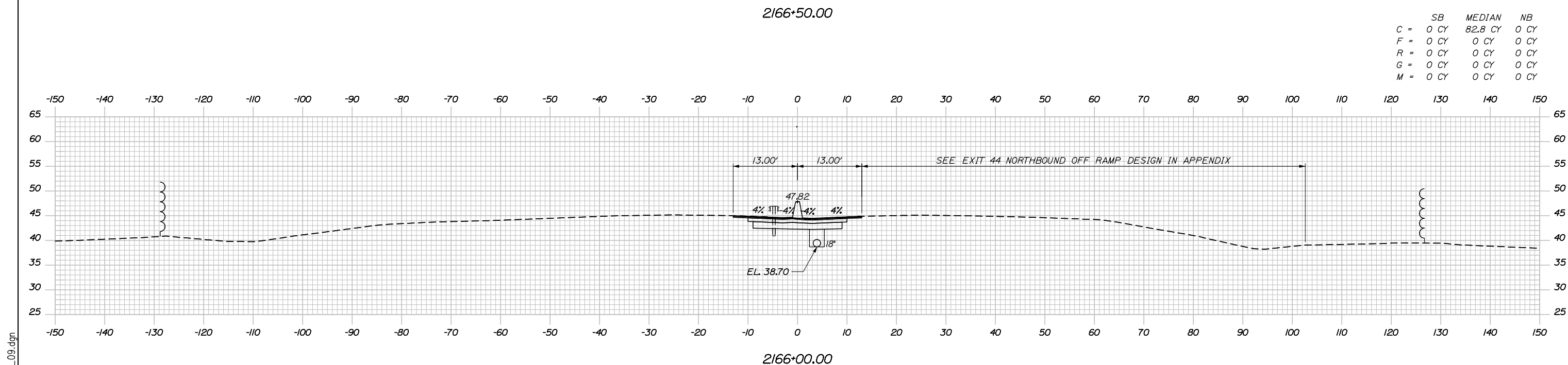
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_08.dgn

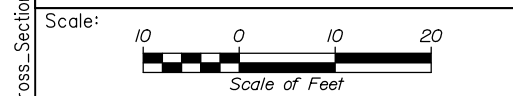
Date: 2/25/2020



	SB	MEDIAN	NB
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M =	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
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F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

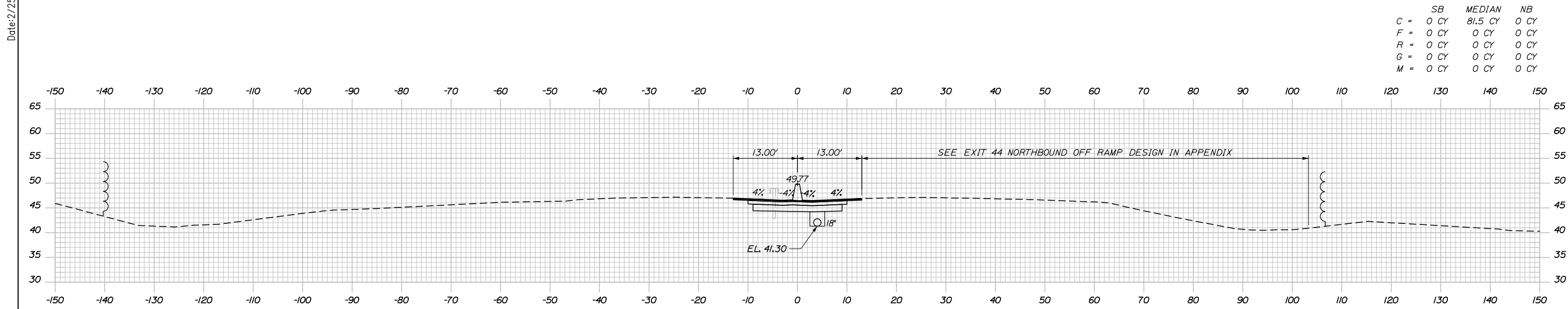
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2166+00 TO STA. 2166+50

SHEET NUMBER: XS-09
 105 OF 310

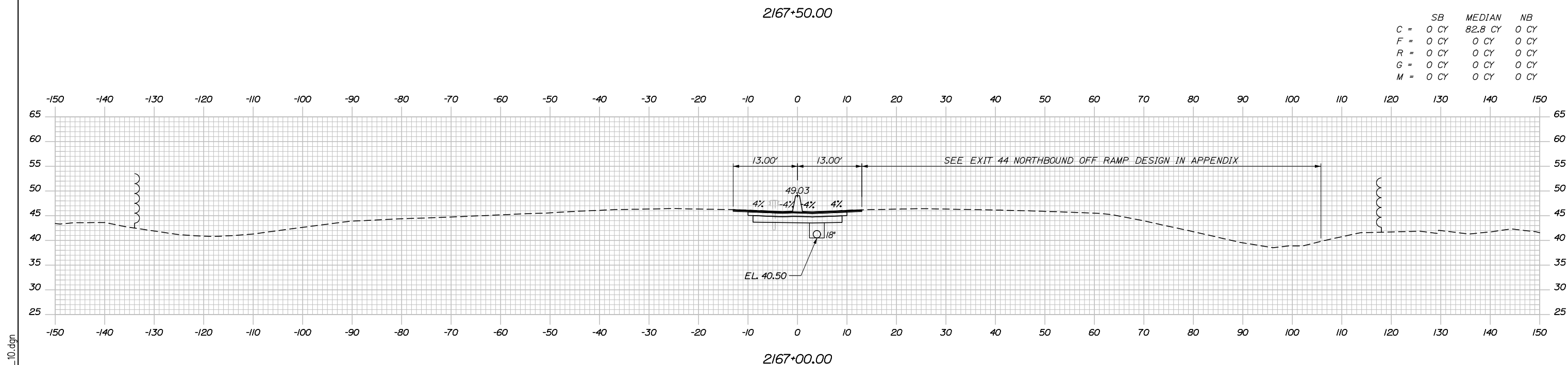
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_09.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
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R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C =	0 CY	82.8 CY	0 CY
F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR MEMORIAL HIGHWAY

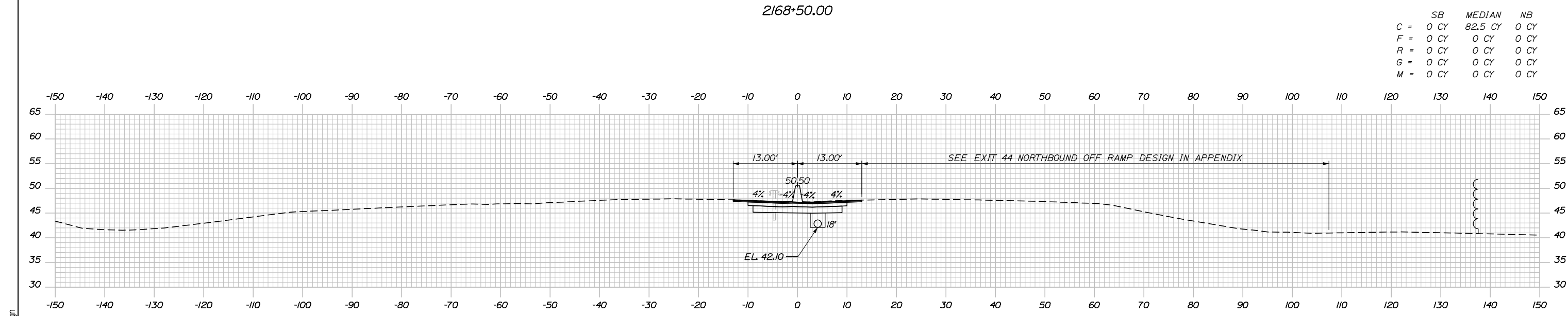
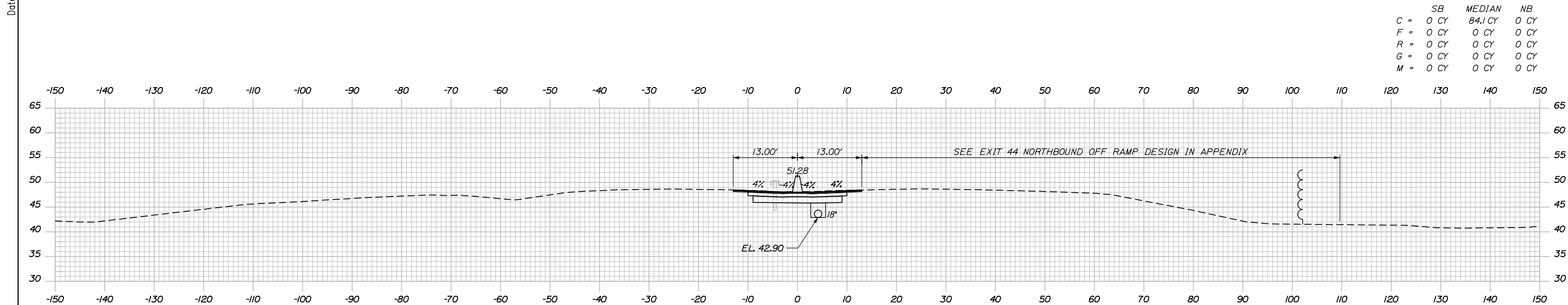
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2167+00 TO STA. 2167+50

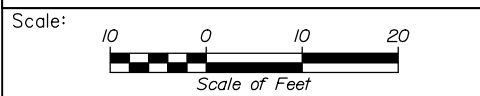
SHEET NUMBER: XS-10
 CONTRACT: 2020.03
 106 OF 310

Filename: PAW1_Cross_Section_10.dgn

Date: 2/25/2020



Filename: PAW1_Cross_Section_11.dgn



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

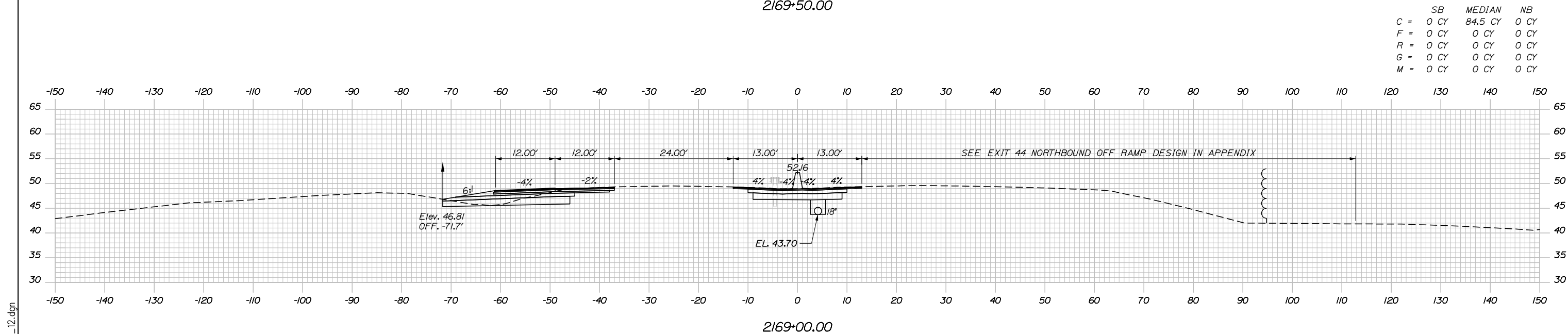
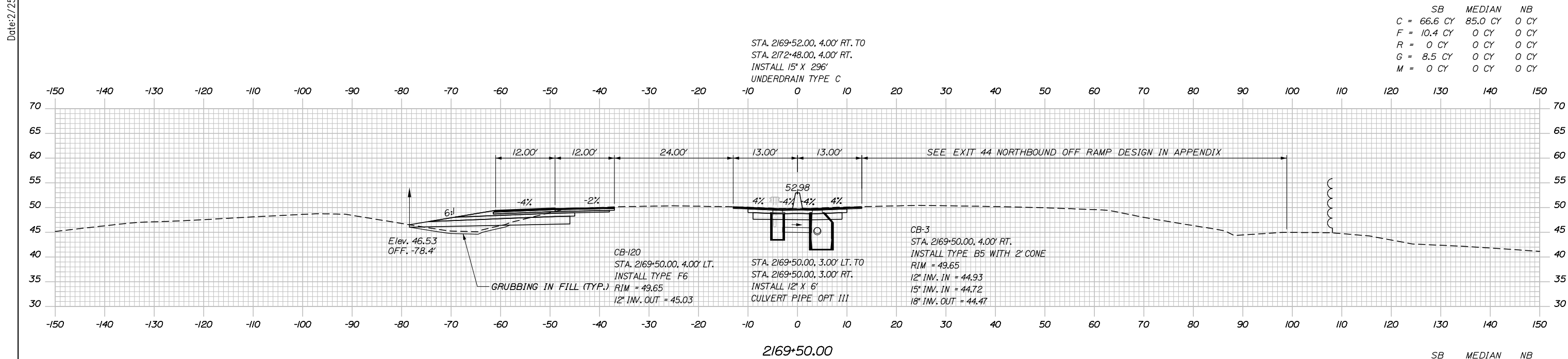
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2168+00 TO STA. 2168+50

SHEET NUMBER: XS-11
 107 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE
 STA. 2169+00 TO STA. 2169+50

SHEET NUMBER: XS-12
 108 OF 310

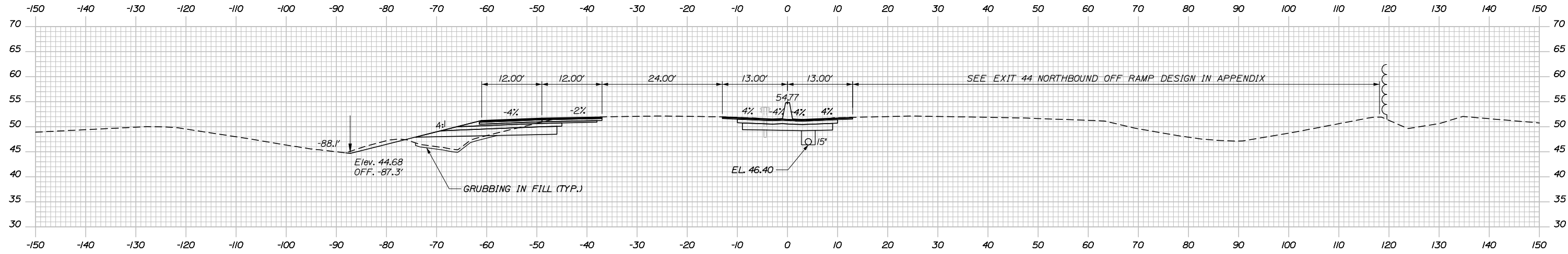
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_12.dgn

Date: 2/25/2020

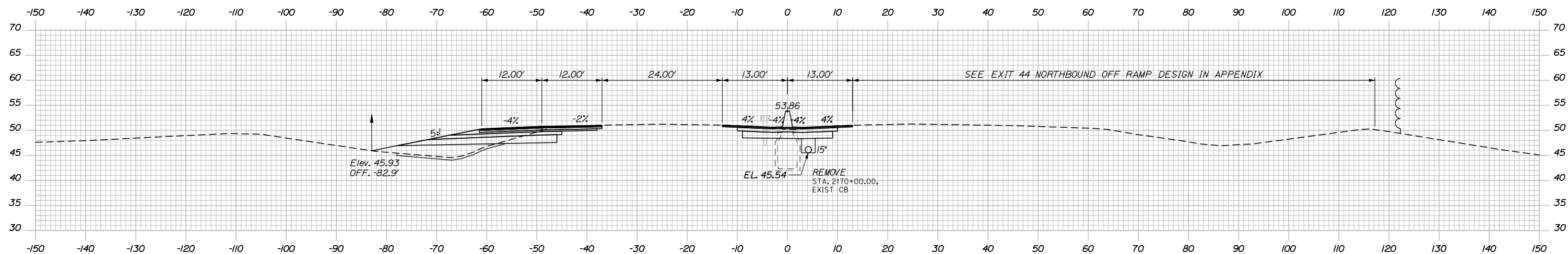
Filename: PAW1_Cross_Section_13.dgn

	SB	MEDIAN	NB
C	60.6 CY	79.0 CY	0 CY
F	57.6 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	16.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

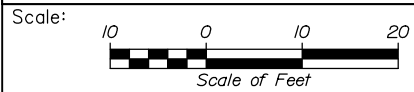


2170+50.00

	SB	MEDIAN	NB
C	56.1 CY	82.4 CY	0 CY
F	46.0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	18.1 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2170+00.00



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THE GOLD STAR
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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE
STA. 2170+00 TO STA. 2170+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	JS	2/20	Checked TRS 2/20
Drawn	GW	2/20	In Charge of RAL 2/20

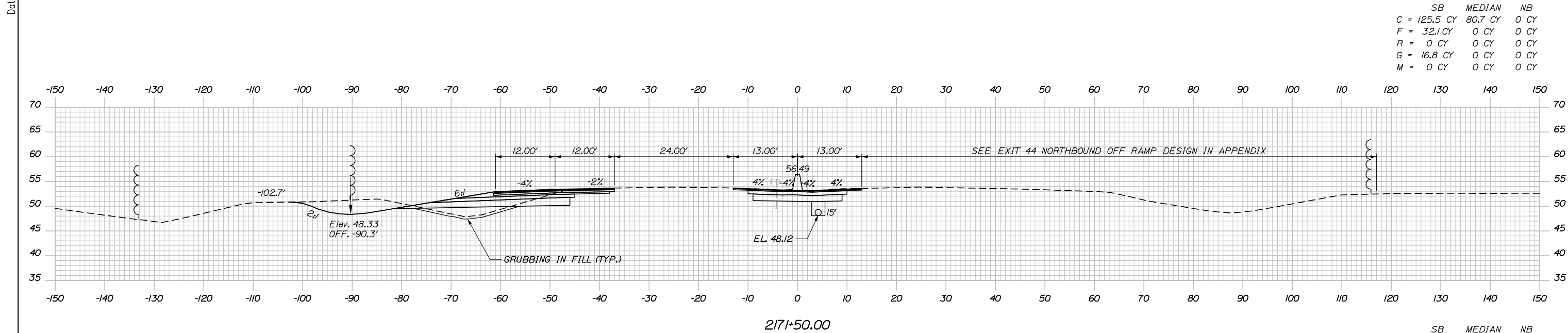
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

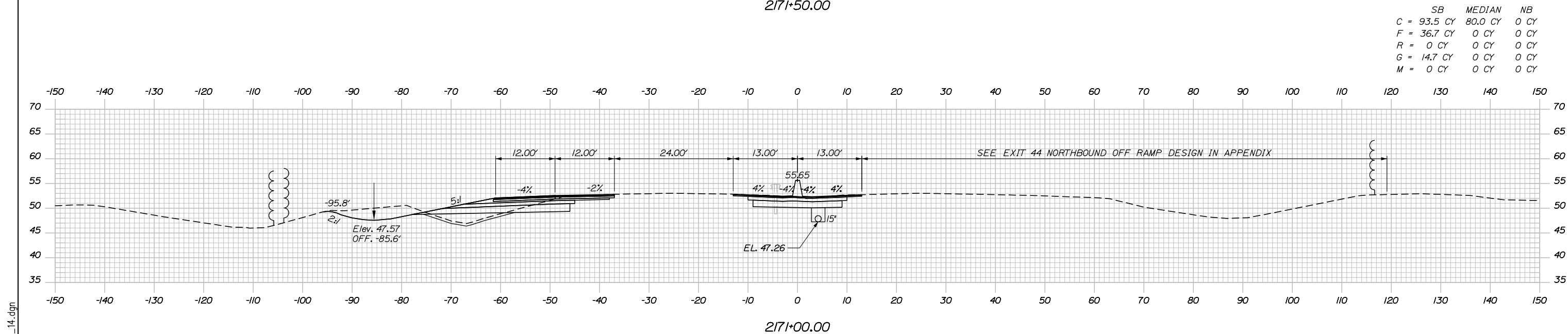
SHEET NUMBER: XS-13

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Date: 2/25/2020



	SB	MEDIAN	NB
C	125.5 CY	80.7 CY	0 CY
F	32.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	16.8 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	93.5 CY	80.0 CY	0 CY
F	36.7 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	14.7 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

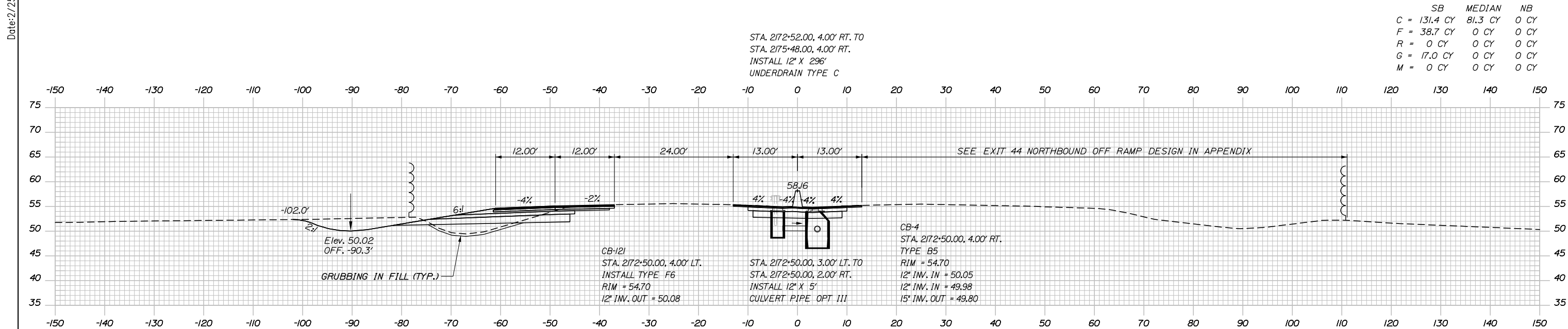
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE
STA. 2171+00 TO STA. 2171+50

SHEET NUMBER: XS-14
110 OF 310

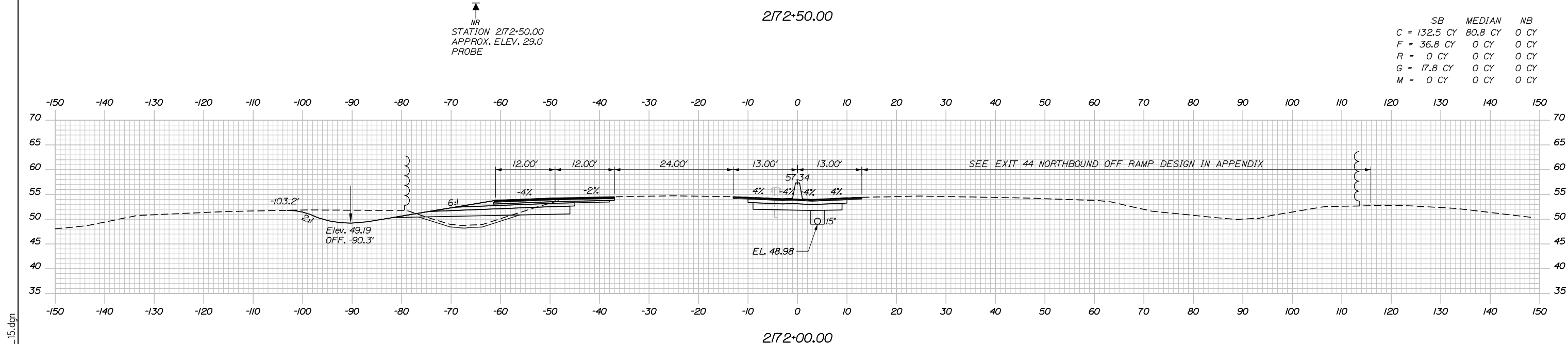
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_14.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	131.4 CY	81.3 CY	0 CY
F	38.7 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	17.0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	132.5 CY	80.8 CY	0 CY
F	36.8 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	17.8 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Scale: 1" = 20'

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

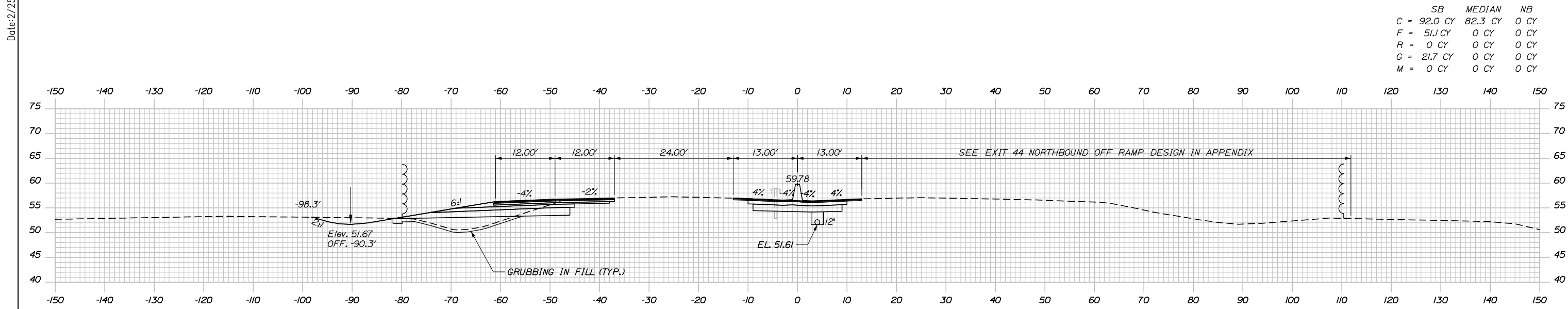
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2172+00 TO STA. 2172+50

SHEET NUMBER: XS-15
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CONTRACT: 2020.03

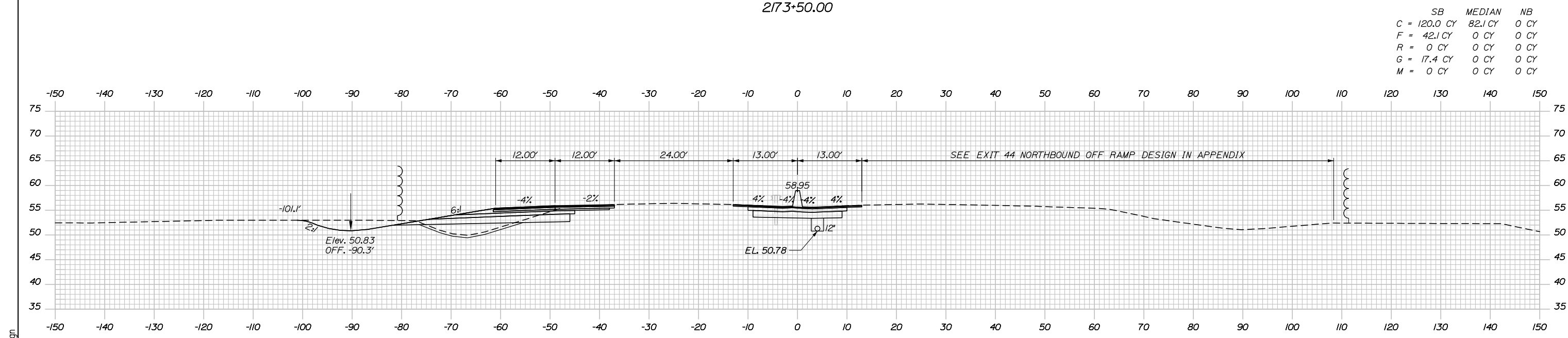
Filename: PAW1_Cross_Section_15.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	92.0 CY	82.3 CY	0 CY
F	51.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	21.7 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2173+50.00



	SB	MEDIAN	NB
C	120.0 CY	82.1 CY	0 CY
F	42.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	17.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2173+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2173+00 TO STA. 2173+50

SHEET NUMBER: XS-16

CONTRACT: 2020.03

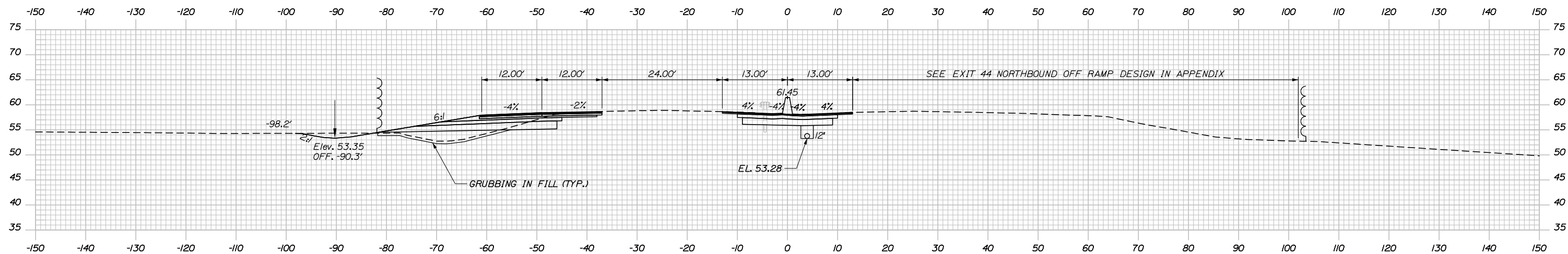
112 OF 310

Filename: PAW1_Cross_Section_16.dgn

Date: 2/25/2020

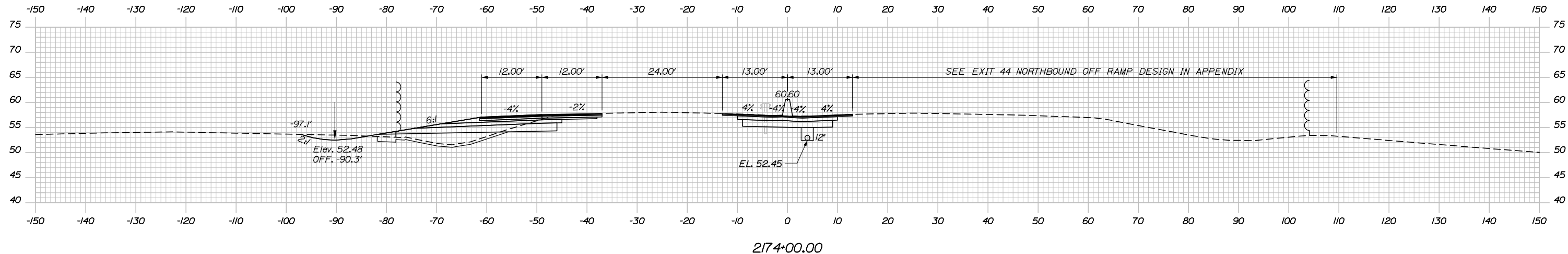
Filename: PAW1_Cross_Section_17.dgn

	SB	MEDIAN	NB
C	63.7 CY	83.7 CY	0 CY
F	53.8 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	25.2 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

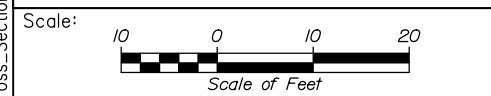


2174+50.00

	SB	MEDIAN	NB
C	69.9 CY	83.1 CY	0 CY
F	58.0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	25.9 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2174+00.00



Designed by:

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	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

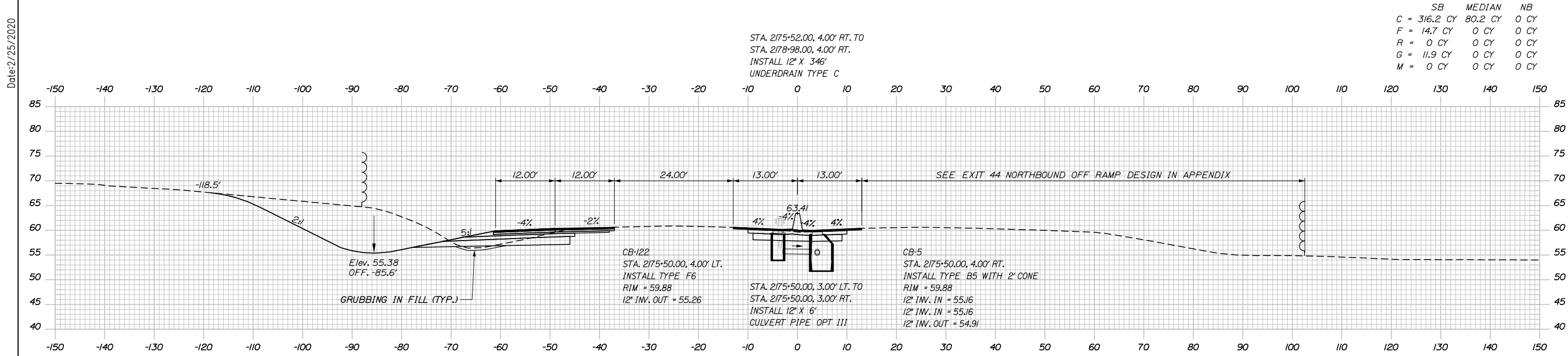
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2174+00 TO STA. 2174+50

SHEET NUMBER: XS-17

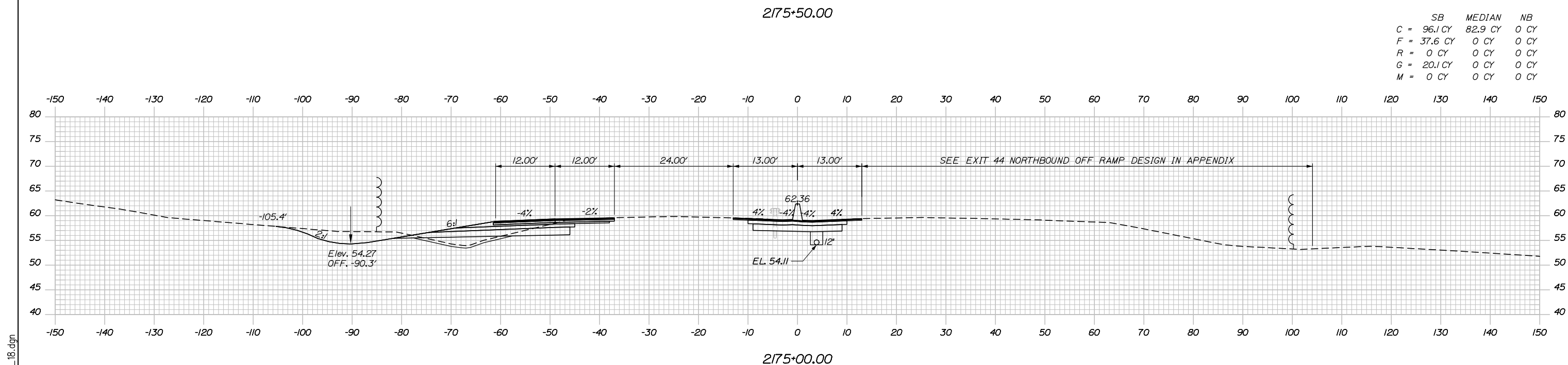
CONTRACT: 2020.03

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Date: 2/25/2020



	SB	MEDIAN	NB
C	316.2 CY	80.2 CY	0 CY
F	14.7 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	11.9 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	96.1 CY	82.9 CY	0 CY
F	37.6 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	20.1 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2175+00 TO STA. 2175+50

SHEET NUMBER: XS-18

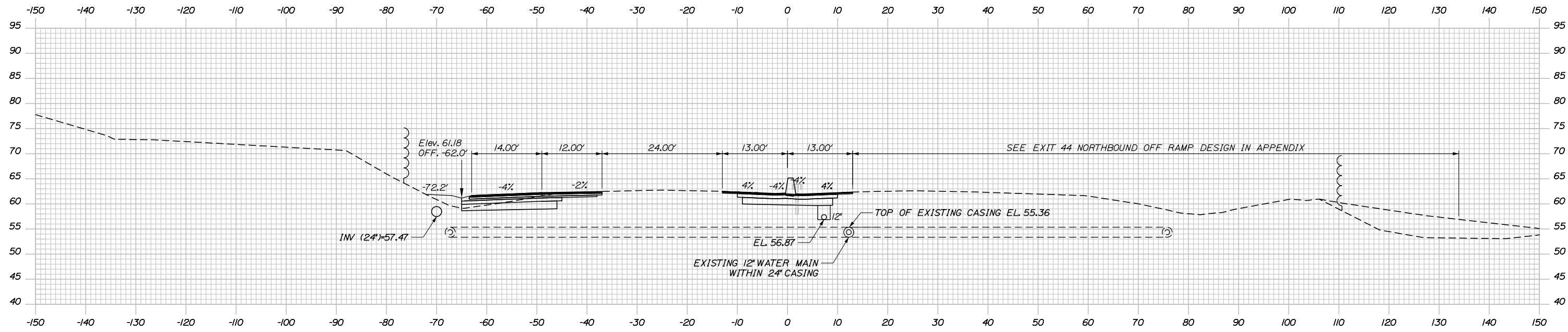
CONTRACT: 2020.03

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Filename: PAW1_Cross_Section_18.dgn

	SB	MEDIAN	NB
C	328.3 CY	74.7 CY	0 CY
F	9.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

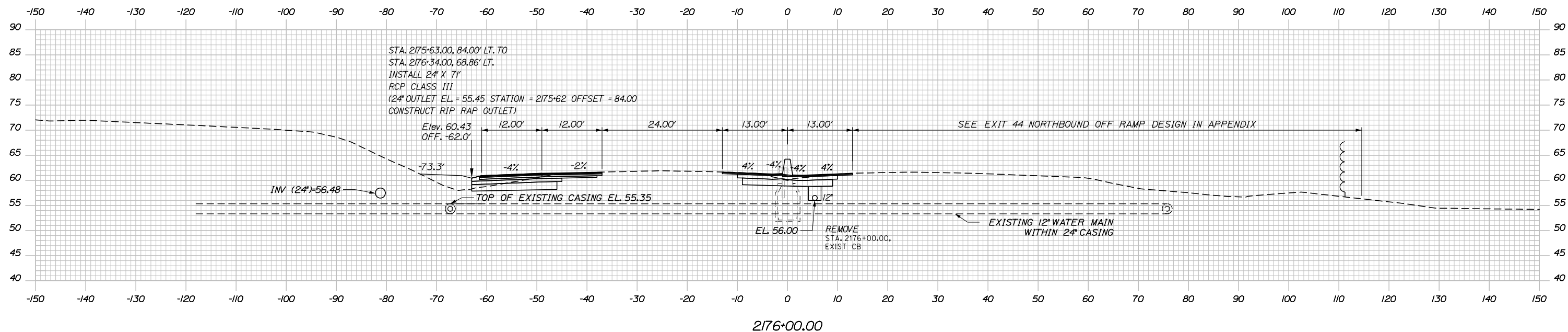
Date: 2/25/2020



CB-SC
 STA. 2176+36.00, 68.86' LT.
 INSTALL TYPE BI WITH SOLID COVER
 RIM = 61.75
 24" INV. IN = 57.01
 24" INV. OUT = 56.76

 STA. 2176+38.00, 68.86' LT. TO
 STA. 2177+98, 71.00' LT.
 INSTALL 24" X 160"
 RCP CLASS III

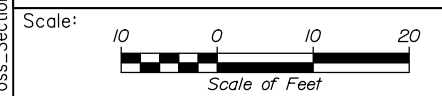
	SB	MEDIAN	NB
C	542.2 CY	74.4 CY	0 CY
F	1.3 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.7 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



STA. 2175+63.00, 84.00' LT. TO
 STA. 2176+34.00, 68.86' LT.
 INSTALL 24" X 71"
 RCP CLASS III
 (24" OUTLET EL. = 55.45 STATION = 2175+62 OFFSET = 84.00
 CONSTRUCT RIP RAP OUTLET)

REMOVE
 STA. 2176+00.00.
 EXIST. CB

Filename: PAW1_Cross_Section_19.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2176+00 TO STA. 2176+50

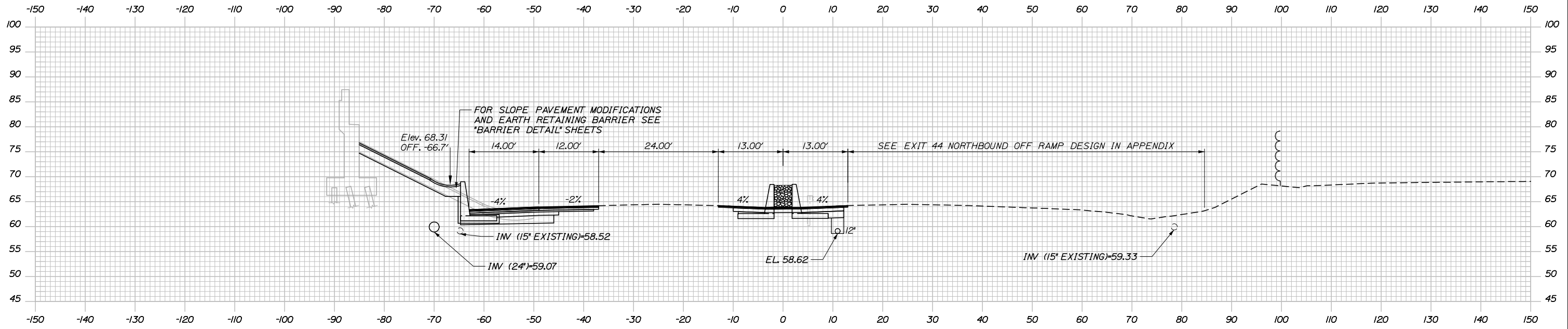
CONTRACT: 2020.03

SHEET NUMBER: XS-19

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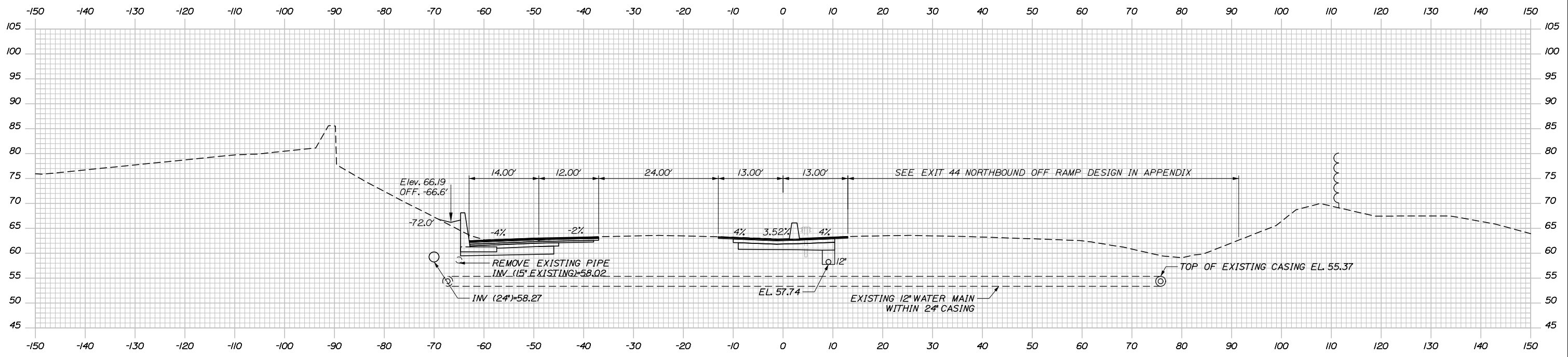
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C	= 127.9 CY	75.3 CY	0 CY
F	= 25.7 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY

Date: 2/25/2020

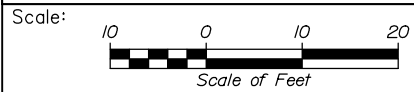


2177+50.00

	SB	MEDIAN	NB
C	= 102.1 CY	80.0 CY	0 CY
F	= 20.8 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



2177+00.00



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. 2177+00 TO STA. 2177+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

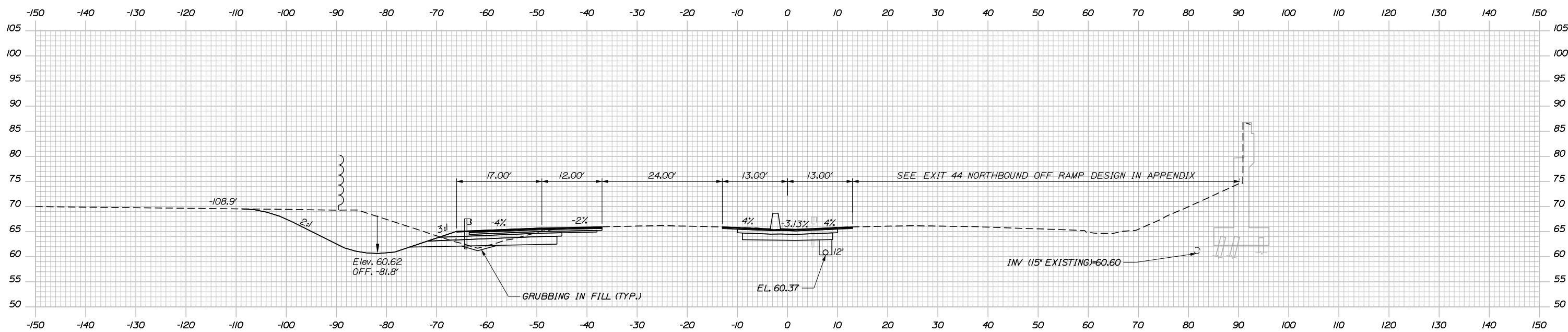
SHEET NUMBER: XS-20

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Filename: PAW1_Cross_Section_20.dgn

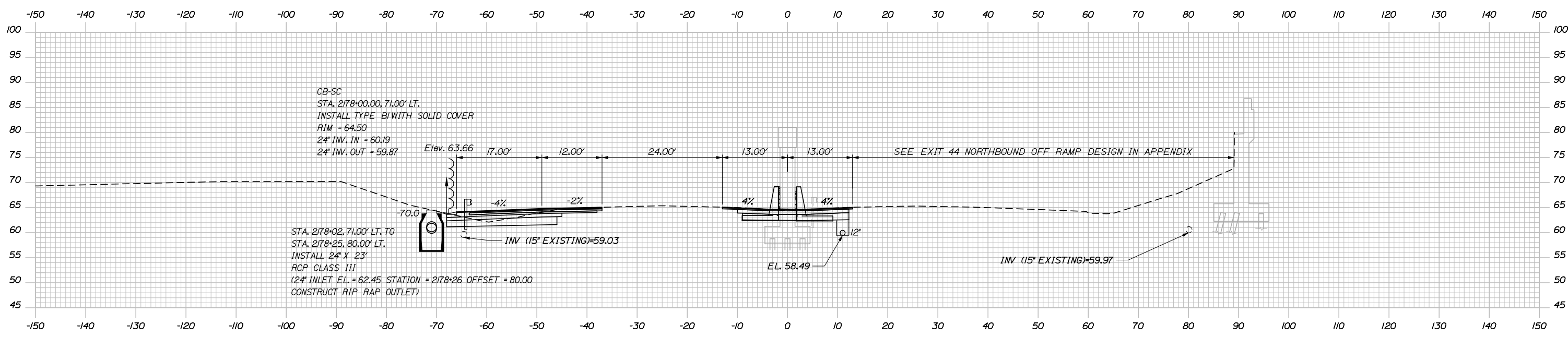
Date: 2/25/2020

	SB	MEDIAN	NB
C	85.1 CY	74.4 CY	0 CY
F	0.7 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	2.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



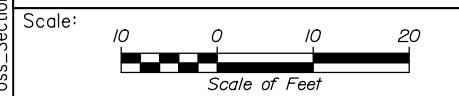
2178+50.00

	SB	MEDIAN	NB
C	108.1 CY	68.1 CY	0 CY
F	14.0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2178+00.00

Filename: PAW1_Cross_Section_21.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

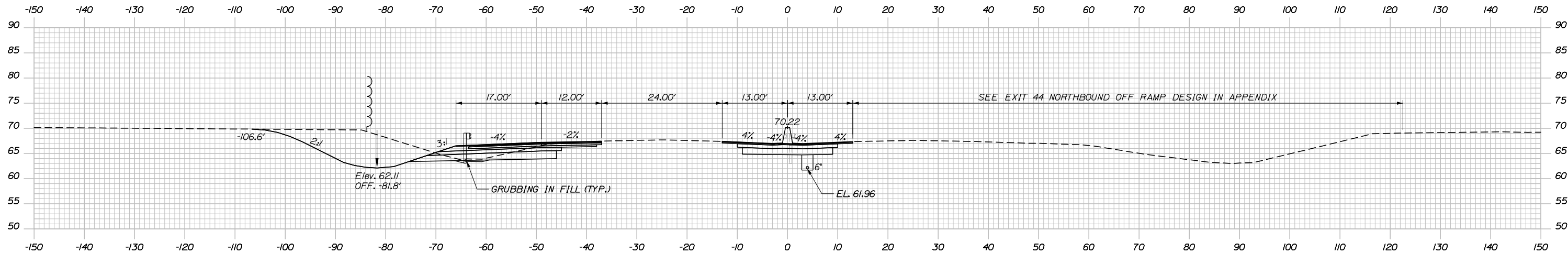
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2178+00 TO STA. 2178+50

SHEET NUMBER: XS-21
 CONTRACT: 2020.03
 117 OF 310

Date: 2/25/2020

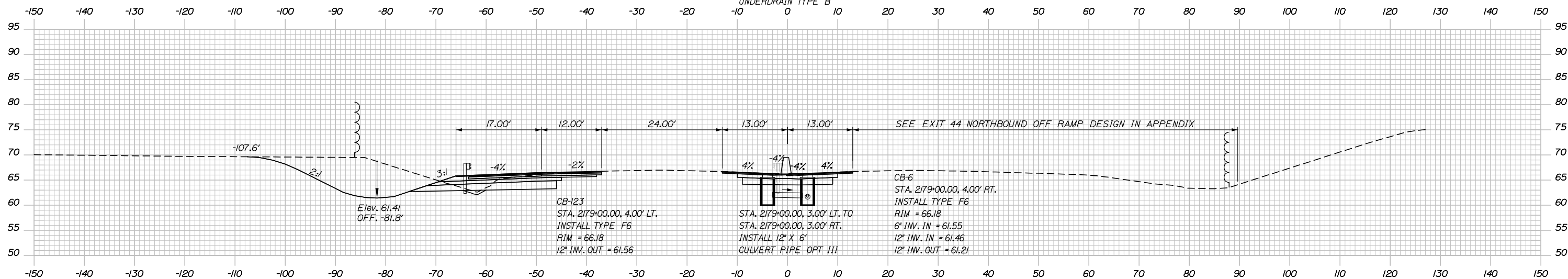
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C	354.5 CY	78.9 CY	0 CY
F	0.4 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.1 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2179+50.00

STA. 2179+02.00, 4.00' RT. TO
 STA. 2186+48.00, 4.00' RT.
 INSTALL 6" X 746'
 UNDERDRAIN TYPE B

	SB	MEDIAN	NB
C	231.7 CY	79.8 CY	0 CY
F	1.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	4.0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



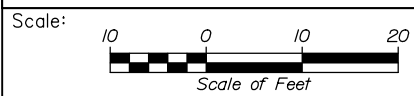
2179+00.00

CB-123
 STA. 2179+00.00, 4.00' LT.
 INSTALL TYPE F6
 RIM = 66.18
 12' INV. OUT = 61.56

STA. 2179+00.00, 3.00' LT. TO
 STA. 2179+00.00, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

CB-6
 STA. 2179+00.00, 4.00' RT.
 INSTALL TYPE F6
 RIM = 66.18
 6' INV. IN = 61.55
 12' INV. IN = 61.46
 12' INV. OUT = 61.21

Filename: PAW1_Cross_Section_22.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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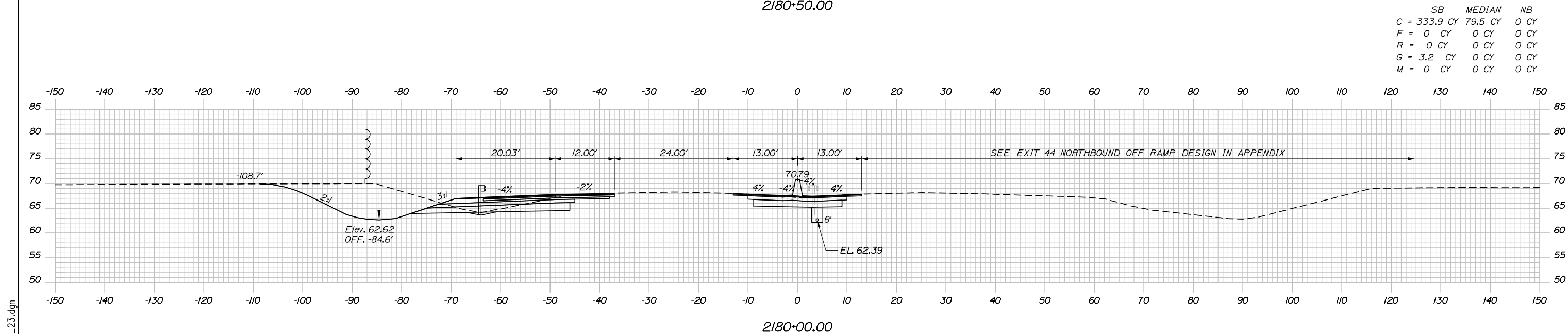
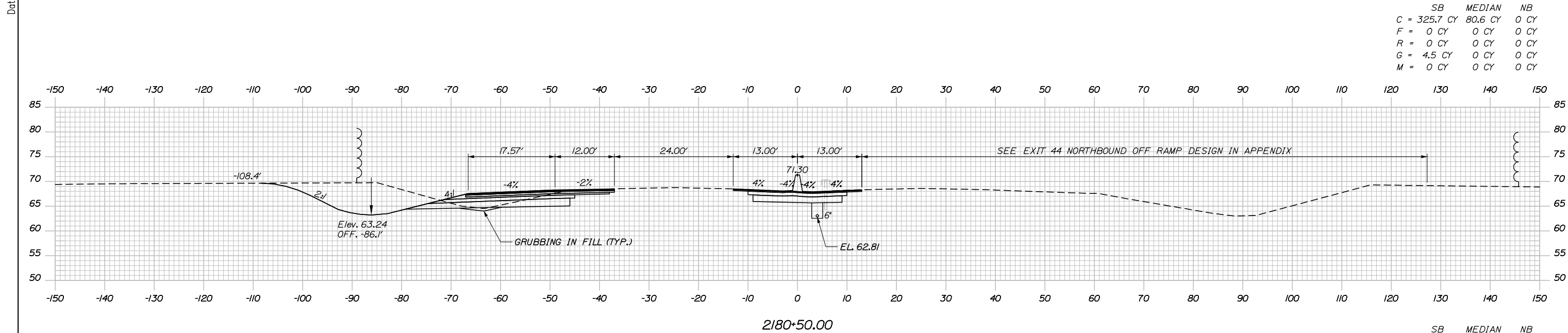
**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2179+00 TO STA. 2179+50

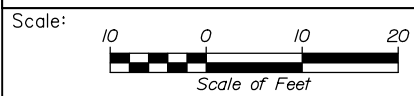
SHEET NUMBER: XS-22
 CONTRACT: 2020.03
 118 OF 310

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

Date: 2/25/2020



Filename: PAW1_Cross_Section_23.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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Westbrook, ME 04092
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

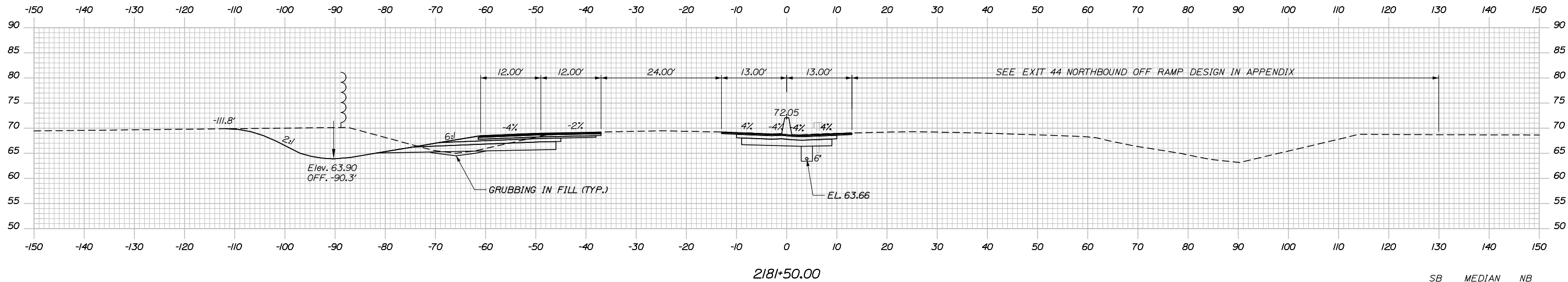
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. 2180+00 TO STA. 2180+50

SHEET NUMBER: XS-23
CONTRACT: 2020.03
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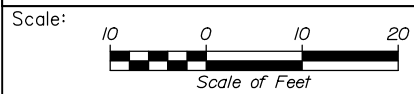
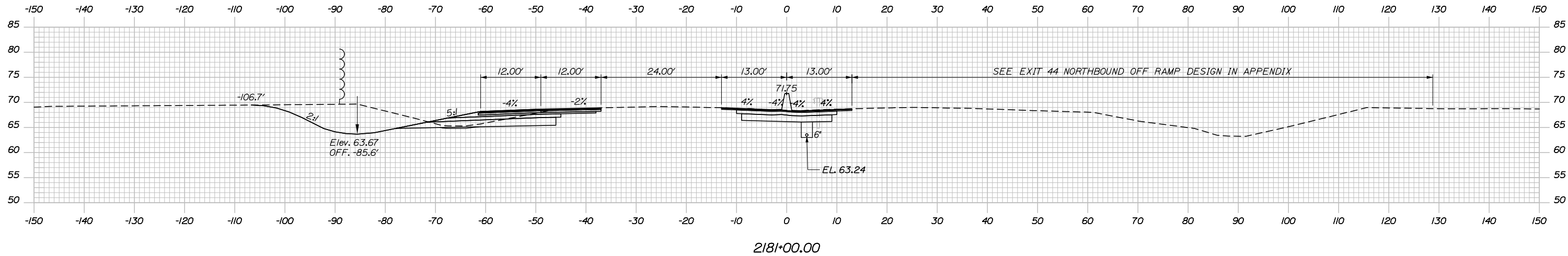
Date: 2/25/2020

Filename: PAW1_Cross_Section_24.dgn

	SB	MEDIAN	NB
C	296.0 CY	83.8 CY	0 CY
F	0.83 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	5.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	295.2 CY	82.7 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	4.3 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Designed by:



HNTB CORPORATION
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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2181+00 TO STA. 2181+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

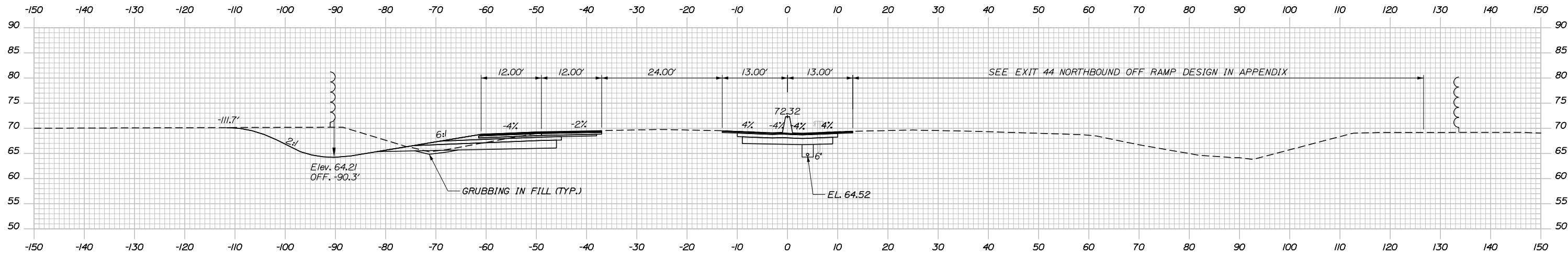
SHEET NUMBER: XS-24

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Date: 2/25/2020

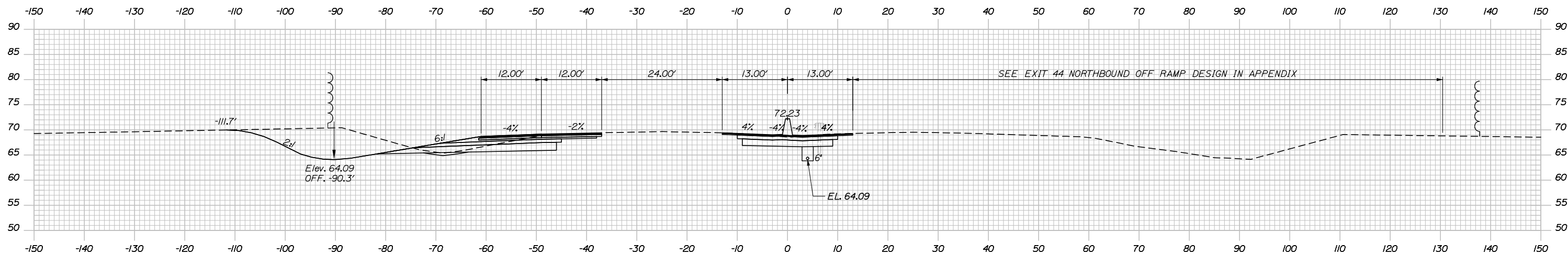
Filename: PAW1_Cross_Section_25.dgn

	SB	MEDIAN	NB
C	311.2 CY	80.6 CY	0 CY
F	0.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	5.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

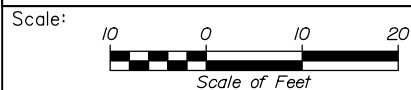


2182+50.00

	SB	MEDIAN	NB
C	313.3 CY	81.9 CY	0 CY
F	0.9 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	6.7 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2182+00.00



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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. 2182+00 TO STA. 2182+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

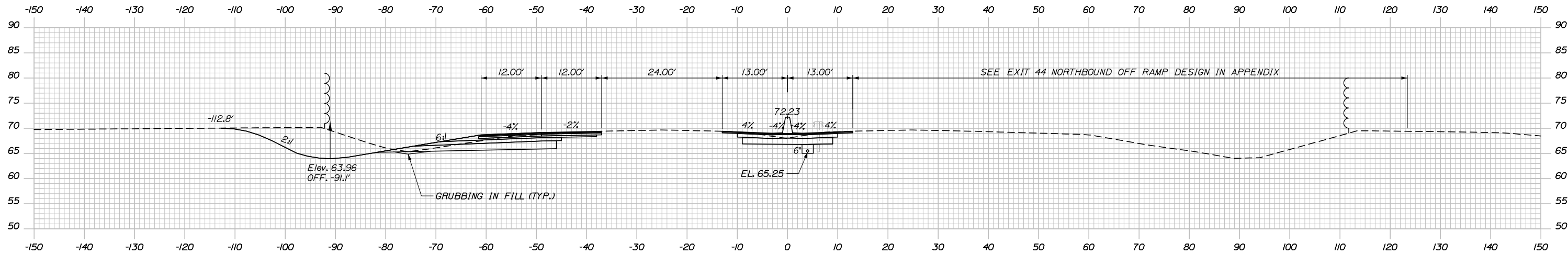
SHEET NUMBER: XS-25

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Date: 2/25/2020

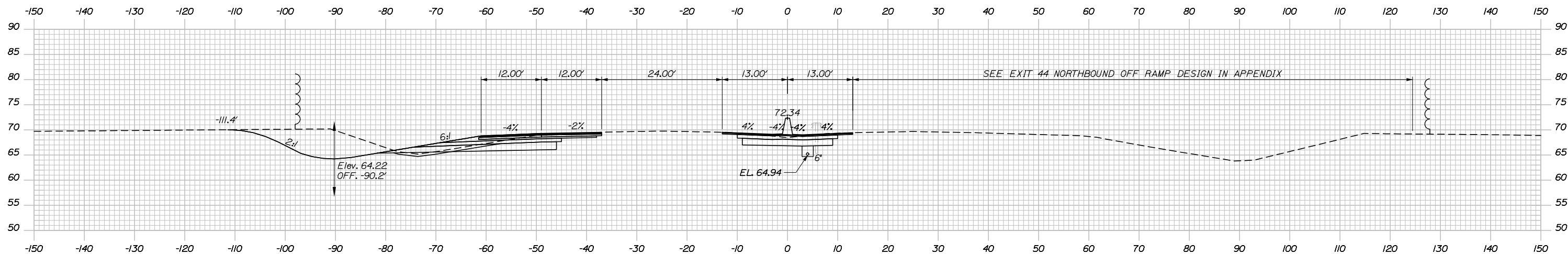
Filename: PAW1_Cross_Section_26.dgn

	SB	MEDIAN	NB
C	288.9 CY	72.9 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	5.7 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

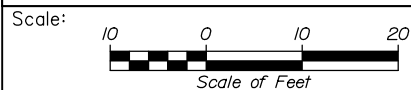


2183+50.00

	SB	MEDIAN	NB
C	291.3 CY	78.8 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	6.8 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



2183+00.00



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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. 2183+00 TO STA. 2183+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	JS	2/20	Checked TRS 2/20
Drawn	GW	2/20	In Charge of RAL 2/20

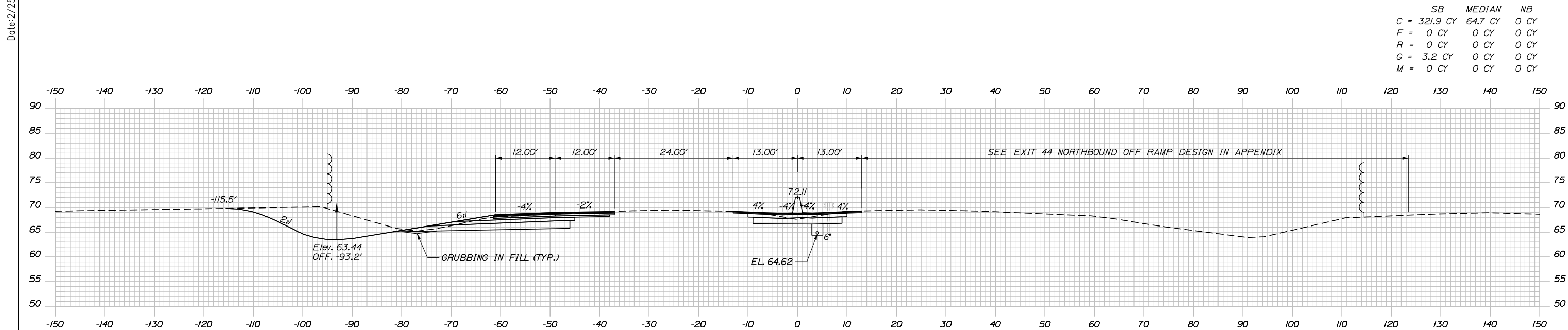
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-26

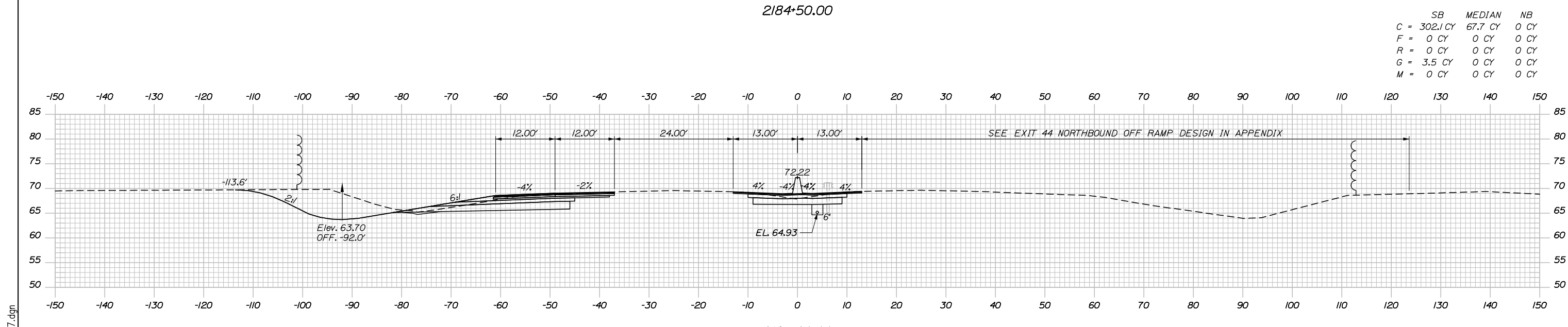
122 OF 310

Date: 2/25/2020



	SB	MEDIAN	NB
C	321.9 CY	64.7 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.2 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2184+50.00



	SB	MEDIAN	NB
C	302.1 CY	67.7 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

2184+00.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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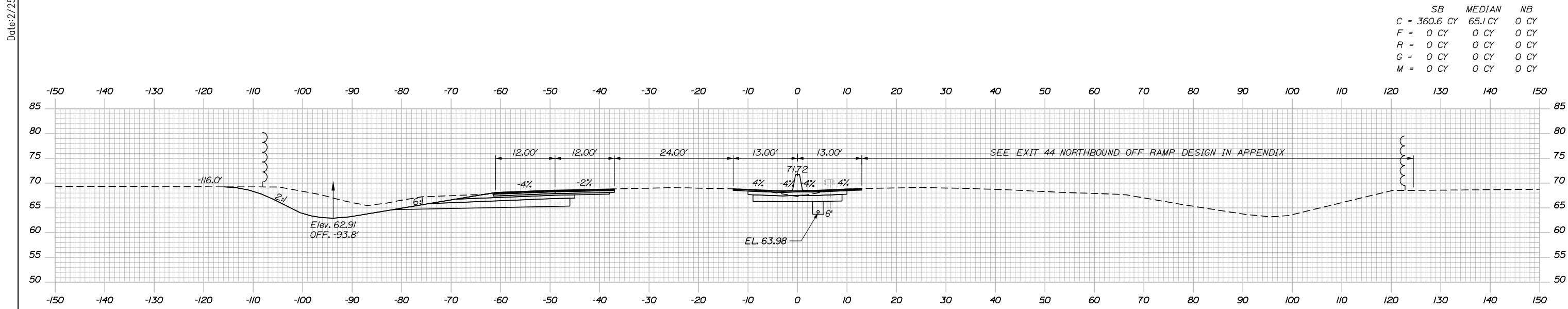
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2184+00 TO STA. 2184+50

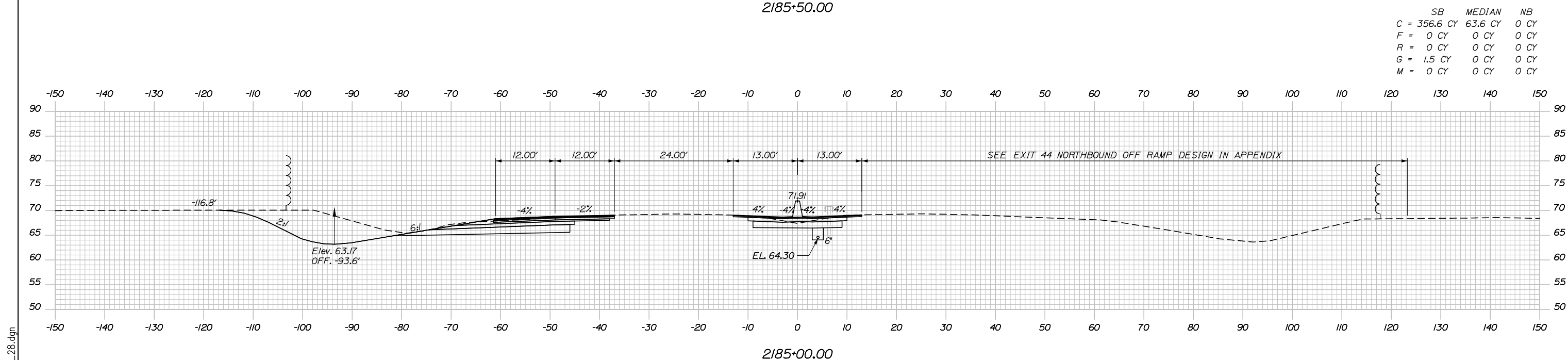
SHEET NUMBER: XS-27
 CONTRACT: 2020.03
 123 OF 310

Filename: PAW1_Cross_Section_27.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	= 360.6 CY	65.1 CY	0 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	= 356.6 CY	63.6 CY	0 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 1.5 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

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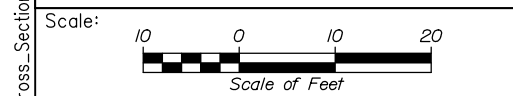
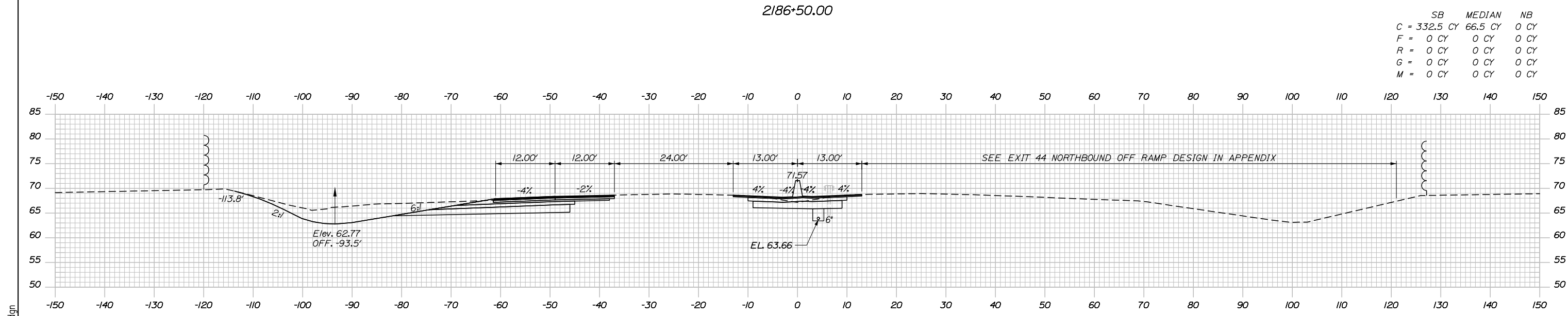
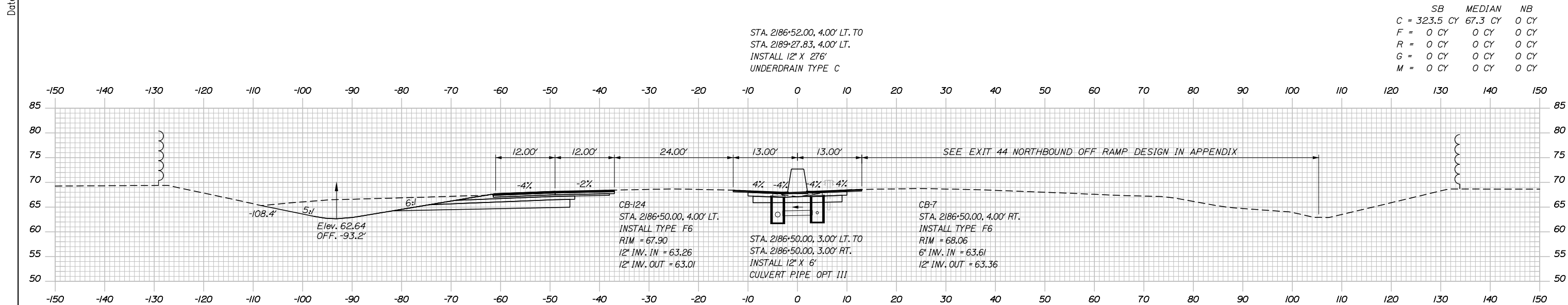
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2185+00 TO STA. 2185+50

SHEET NUMBER: XS-28
 CONTRACT: 2020.03
 124 OF 310

Filename: PAW1_Cross_Section_28.dgn

Date: 2/25/2020



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2186+00 TO STA. 2186+50

SHEET NUMBER: XS-29
 125 OF 310

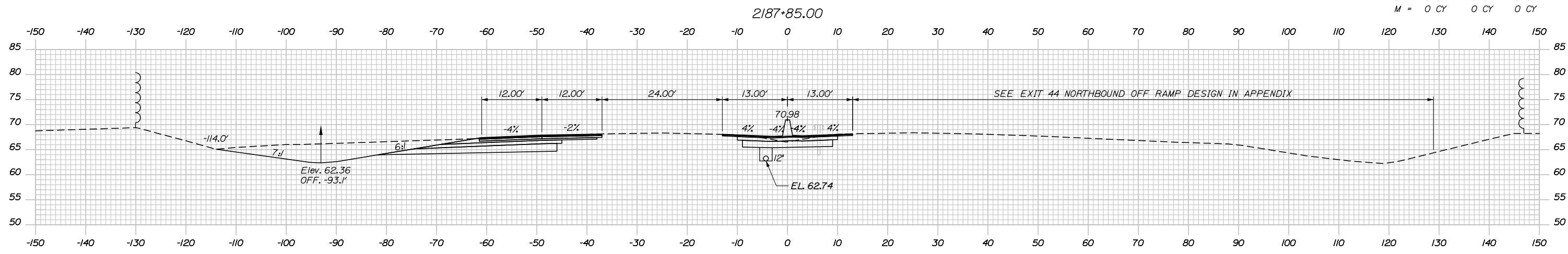
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_29.dgn

Date: 2/25/2020

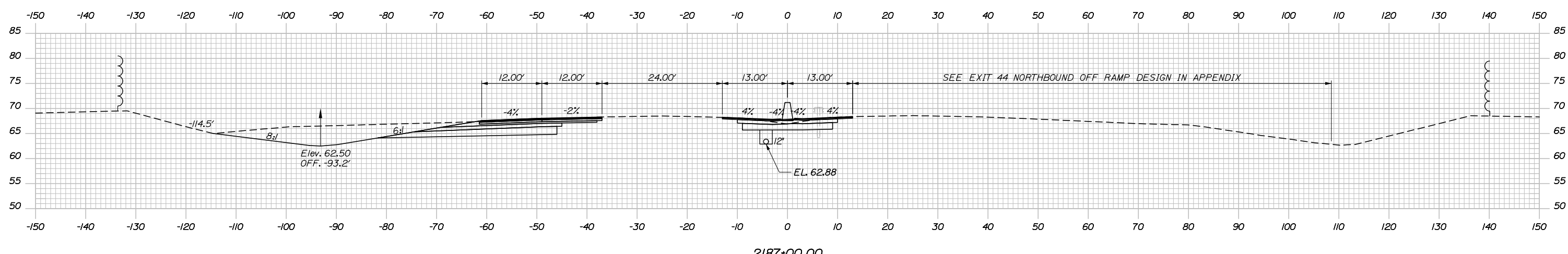
REMOVE
STA. 2187+85.00,
EXIST CB

	SB	MEDIAN	NB
C	= 362.0 CY	67.7 CY	0 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY

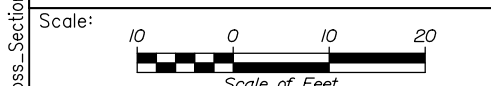


2187+50.00

	SB	MEDIAN	NB
C	= 350.6 CY	68.6 CY	0 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



2187+00.00



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No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

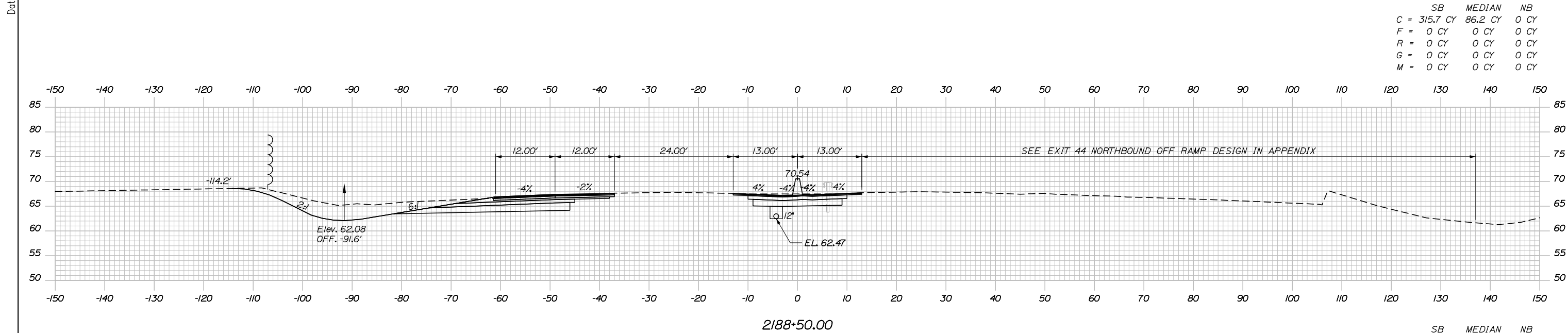
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. 2187+00 TO STA. 2187+50

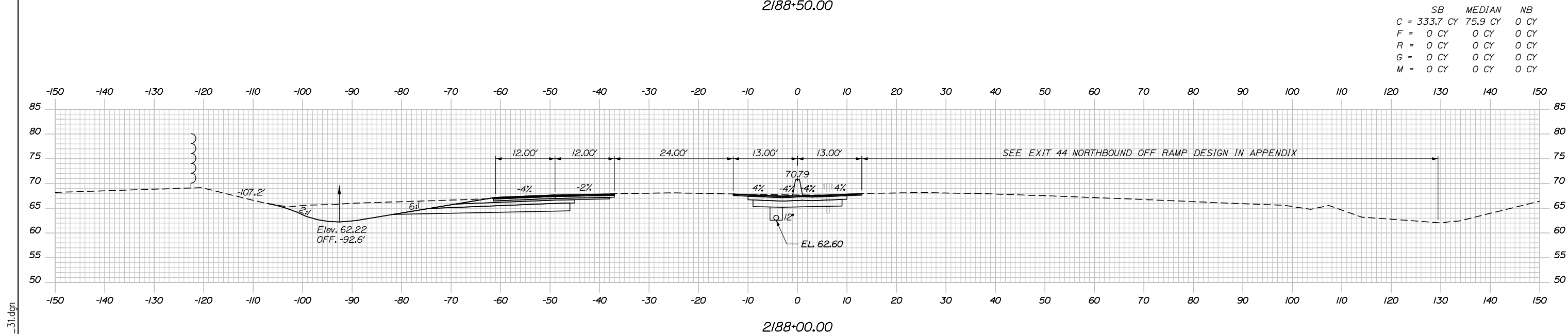
SHEET NUMBER: XS-30
CONTRACT: 2020.03
126 OF 310

Filename: PAW1_Cross_Section_30.dgn

Date: 2/25/2020

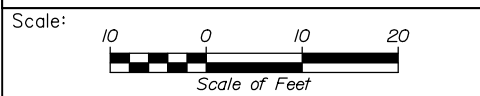


	SB	MEDIAN	NB
C	315.7 CY	86.2 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	333.7 CY	75.9 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_31.dgn



Designed by:


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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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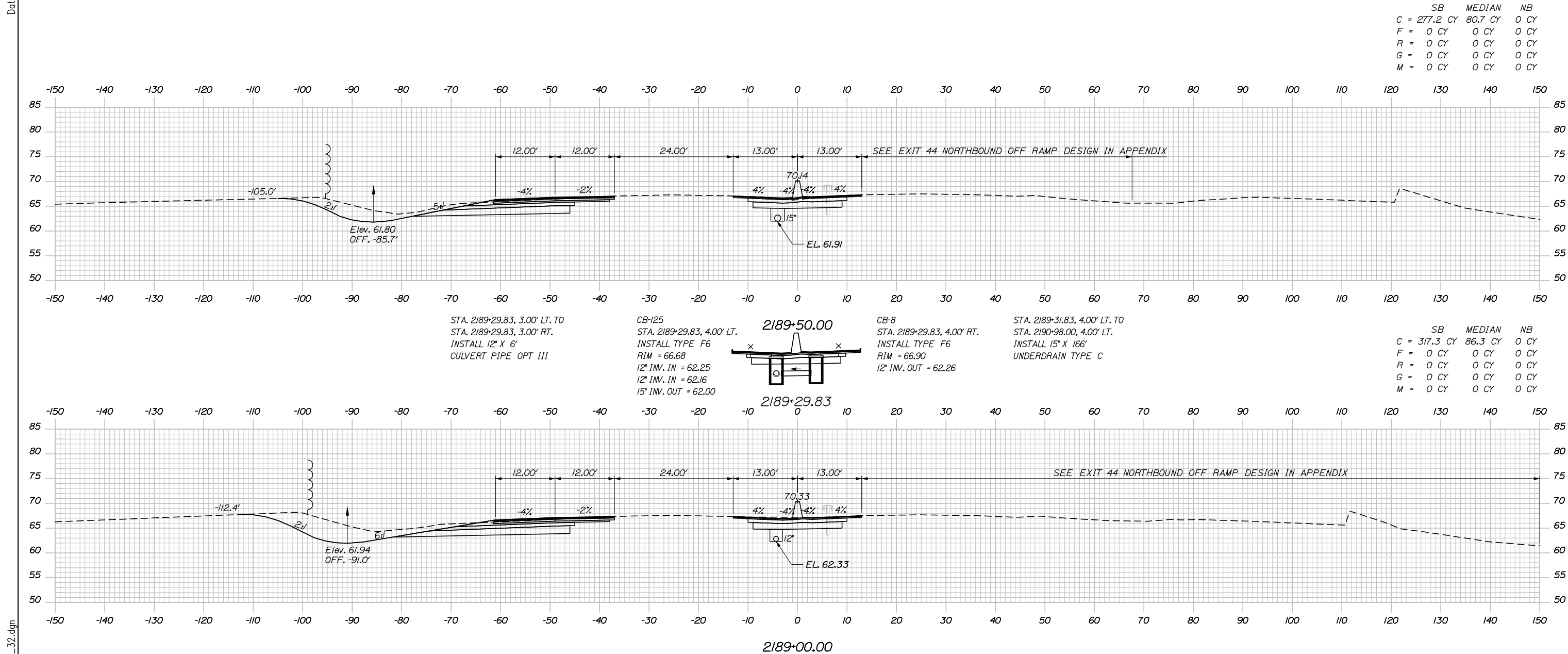
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. 2188+00 TO STA. 2188+50

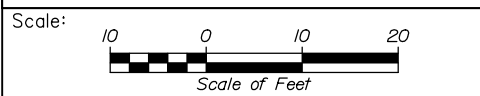
SHEET NUMBER: XS-31
127 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



Filename: PAW1_Cross_Section_32.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

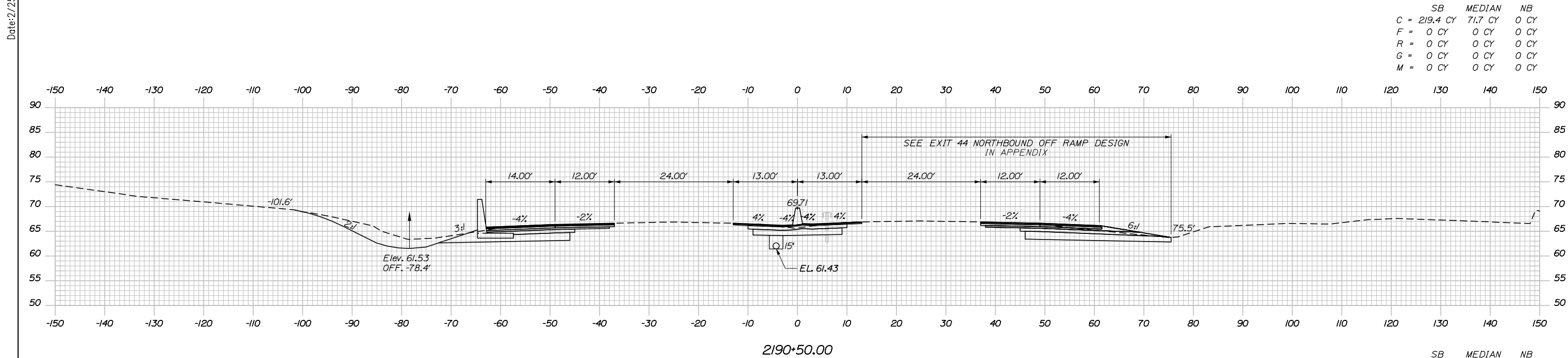
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2189+00 TO STA. 2189+50

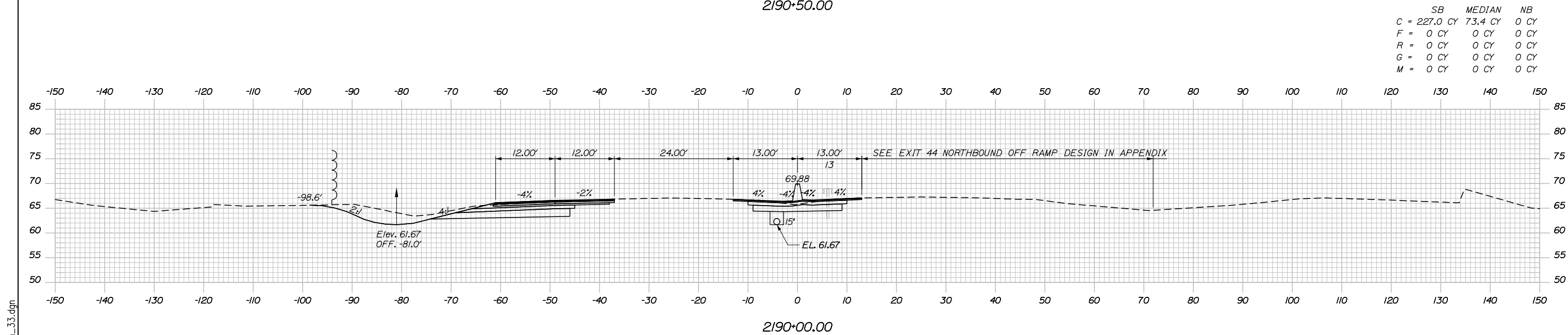
SHEET NUMBER: XS-32
 128 OF 310

CONTRACT: 2020.03

Date: 2/25/2020

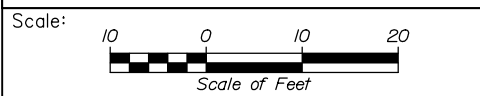


	SB	MEDIAN	NB
C	= 219.4 CY	71.7 CY	0 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	= 227.0 CY	73.4 CY	0 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_33.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

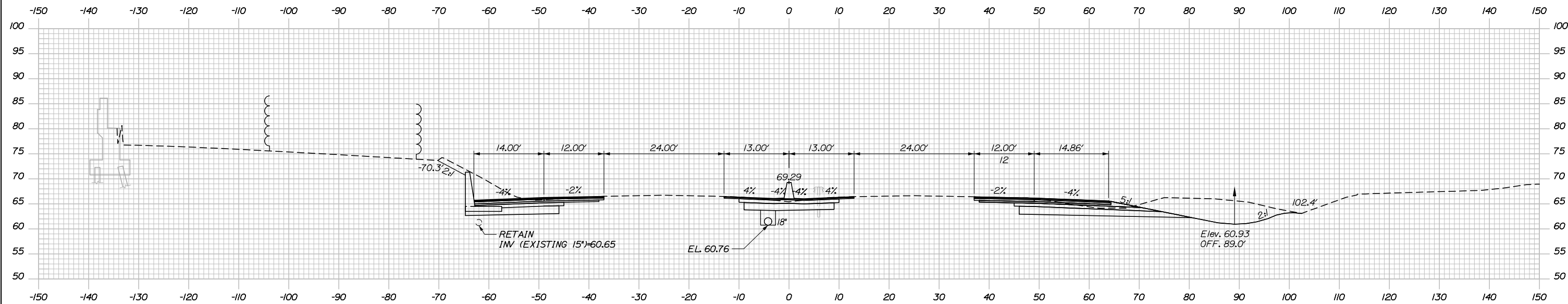
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2190+00 TO STA. 2190+50

SHEET NUMBER: XS-33
 129 OF 310

CONTRACT: 2020.03

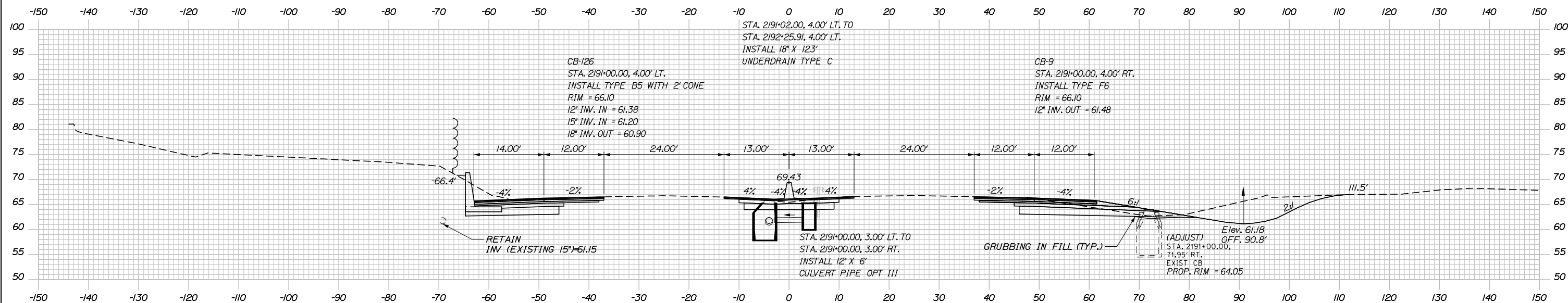
Date: 2/25/2020

	SB	MEDIAN	NB
C	169.2 CY	74.3 CY	287.0 CY
F	1.8 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	1.8 CY
M	0 CY	0 CY	0 CY

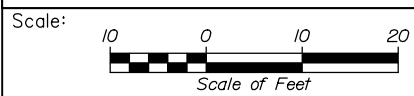


a 2191+50.00

	SB	MEDIAN	NB
C	186.9 CY	72.8 CY	194.9 CY
F	1.8 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	1.8 CY
M	0 CY	0 CY	0 CY



2191+00.00



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. 2191+00 TO STA. a 2191+50

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-34

130 OF 310

Filename: PAW1_Cross_Section_34.dgn

Date: 2/25/2020

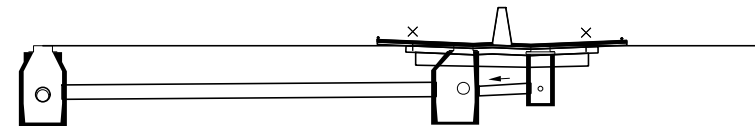
STA. 2192+29.91, 51.50' LT. TO
 STA. 2192+81.06, 51.50' LT.
 INSTALL 24" X 52"
 RCP CLASS III

CB-SCI
 STA. 2192+27.91, 51.50' LT.
 INSTALL TYPE BI
 RIM = 65.75
 18" INV. IN = 60.17
 15" INV. IN (EXIST.) = 59.92
 24" INV. OUT = 59.92

CB-127
 STA. 2192+27.91, 4.00' LT.
 INSTALL TYPE B5 WITH 2' CONE
 RIM = 65.90
 12" INV. IN = 60.95
 18" INV. IN = 60.55
 18" INV. OUT = 60.45

STA. 2192+34.91, 4.00' RT. TO
 STA. 2193+98.00, 4.00' RT.
 INSTALL 6" X 16"
 UNDERDRAIN TYPE B

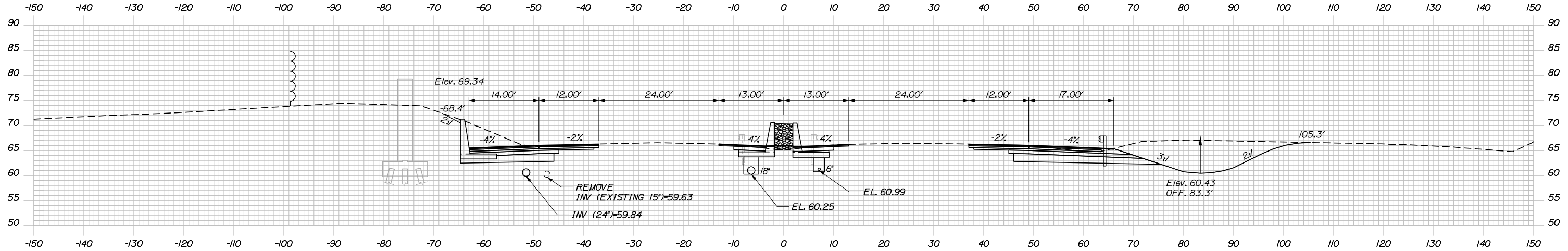
CB-10
 STA. 2192+27.91, 4.00' RT.
 INSTALL TYPE F6
 RIM = 65.81
 6" INV. IN = 61.05
 12" INV. OUT = 61.05



STA. 2192+27.91, 6.00' LT. TO
 STA. 2192+21.00, 49.50' LT.
 INSTALL 18" X 44"
 RCP CLASS III

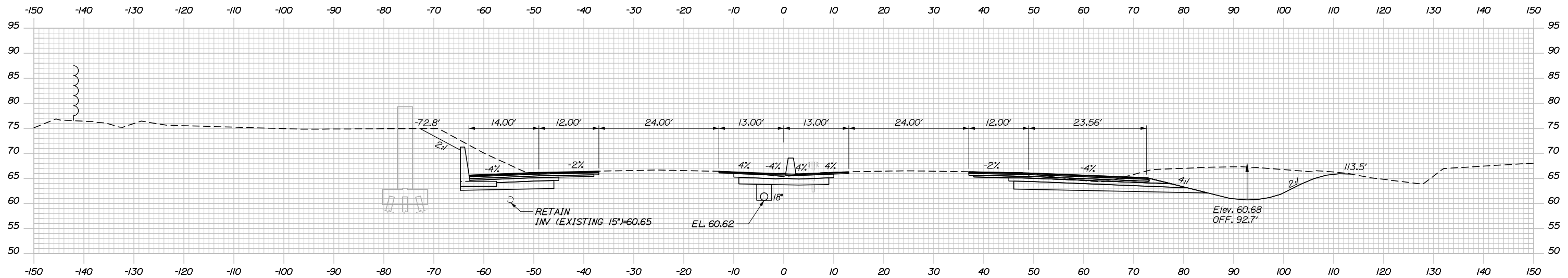
STA. 2192+27.91, 3.00' LT. TO
 STA. 2192+27.91, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III
 @ 2192+27.91

	SB	MEDIAN	NB
C	206.6 CY	71.0 CY	436.5 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



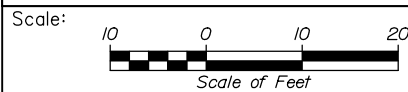
a 2192+50.00

	SB	MEDIAN	NB
C	204.9 CY	76.3 CY	389.0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



a 2192+00.00

Filename: PAW1_Cross_Section_35.dgn



Designed by:



HNTB CORPORATION
 340 County Road, Suite 6-C
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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2192+00 TO STA. a 2192+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

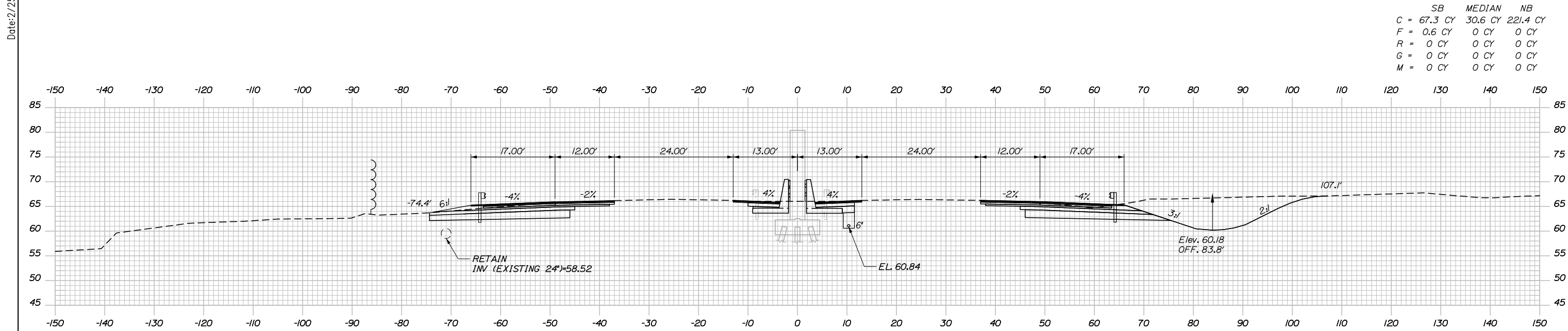
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-35

131 OF 310

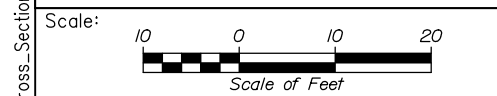
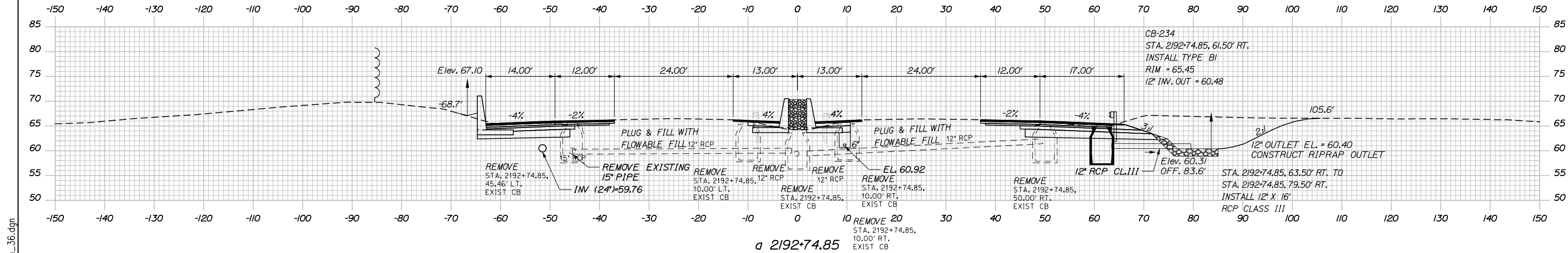
Date: 2/25/2020



CB-SC2
 STA. 2192+83.06, 51.50' LT.
 INSTALL TYPE BI WITH SOLID COVER
 RIM = 65.78
 24" INV. IN = 59.75
 24" INV. OUT = 59.50 (EXIST)

a 2193+00.00
 a 2192+83.06

SB MEDIAN NB
 C = 77.8 CY 27.7 CY 216.4 CY
 F = 0.6 CY 0 CY 0 CY
 R = 0 CY 0 CY 0 CY
 G = 0 CY 0 CY 0 CY
 M = 0 CY 0 CY 0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

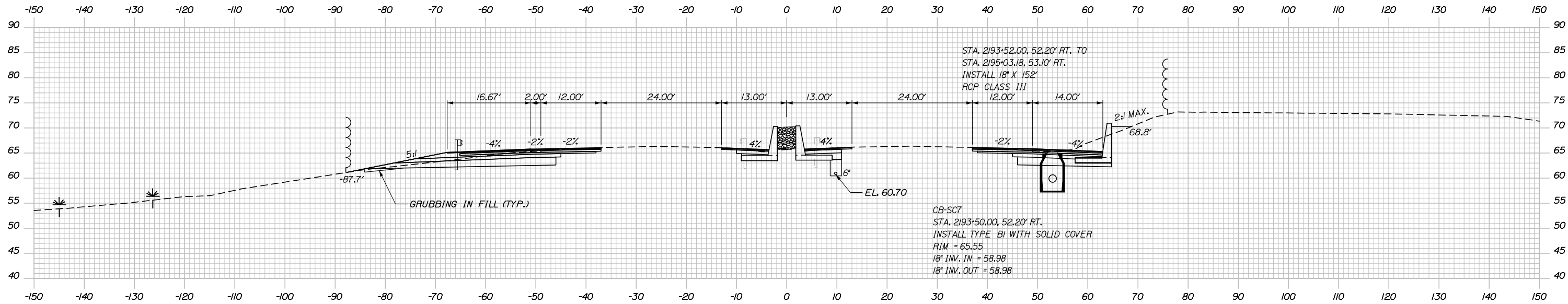
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2192+75 TO STA. a 2193+00

SHEET NUMBER: XS-36
 CONTRACT: 2020.03
 132 OF 310

Filename: PAW1_Cross_Section_36.dgn

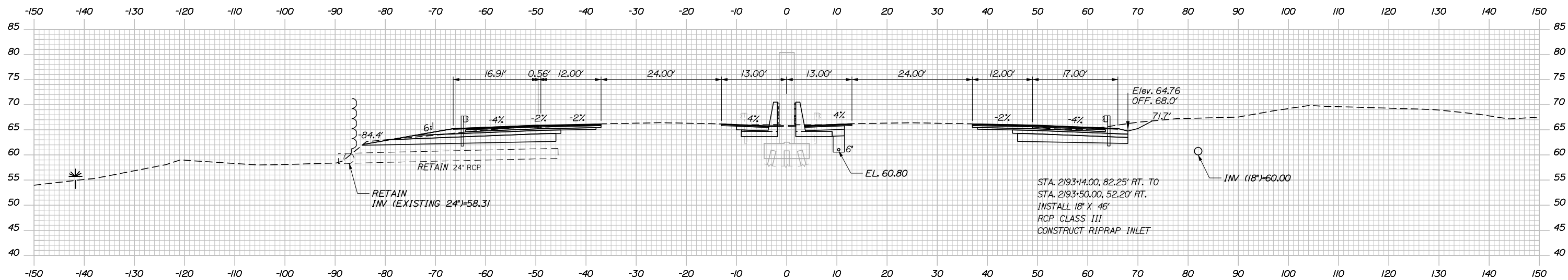
Date: 2/25/2020

	SB	MEDIAN	NB
C	103.3 CY	54.7 CY	104.8 CY
F	0 CY	0 CY	3.7 CY
R	0 CY	0 CY	0 CY
G	1.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



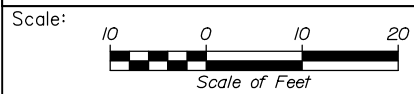
a 2193+50.00

	SB	MEDIAN	NB
C	42.9 CY	21.5 CY	78.8 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



a 2193+14.00

Filename: PAW1_Cross_Section_37.dgn



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. a 2193+14 TO STA. a 2193+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

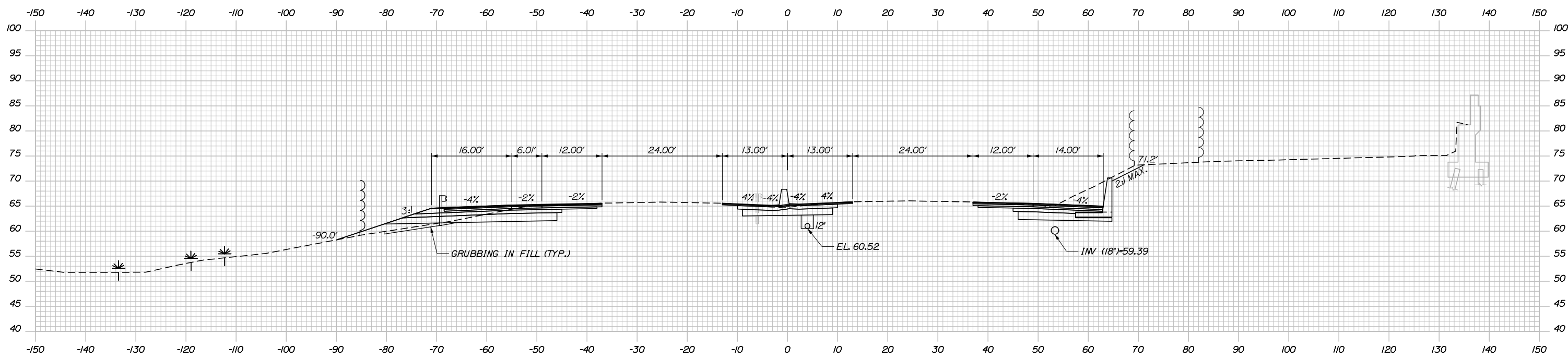
CONTRACT: 2020.03

SHEET NUMBER: XS-37

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Date: 2/25/2020

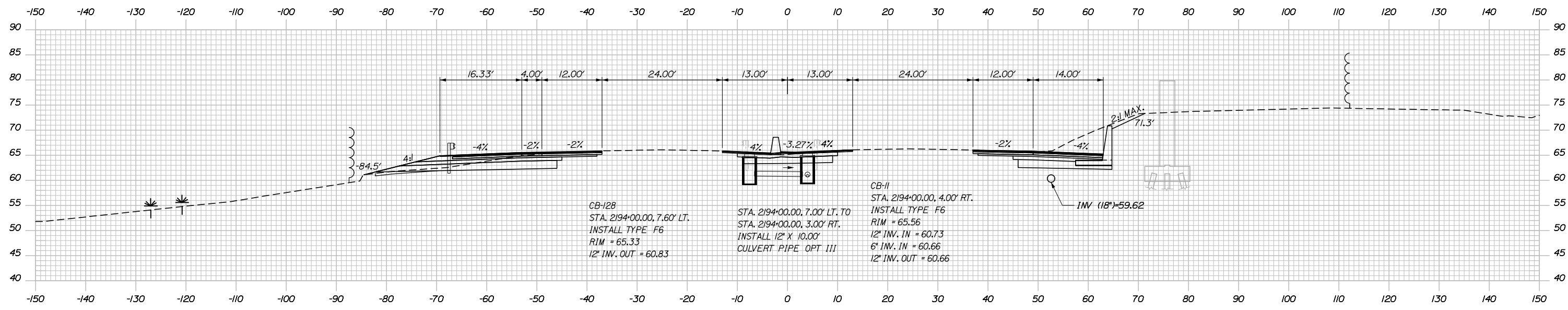
	SB	MEDIAN	NB
C	100.1 CY	74.3 CY	190.6 CY
F	14.2 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	9.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



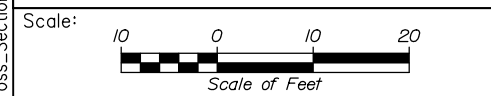
a 2194+50.00

	SB	MEDIAN	NB
C	115.6 CY	74.8 CY	173.1 CY
F	0 CY	0 CY	5.2 CY
R	0 CY	0 CY	0 CY
G	5.8 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

STA. 2194+02.00, 4.00' RT. TO
 STA. 2195+03.18, 4.00' RT.
 INSTALL 12" X 10"
 UNDERDRAIN TYPE C



a 2194+00.00



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

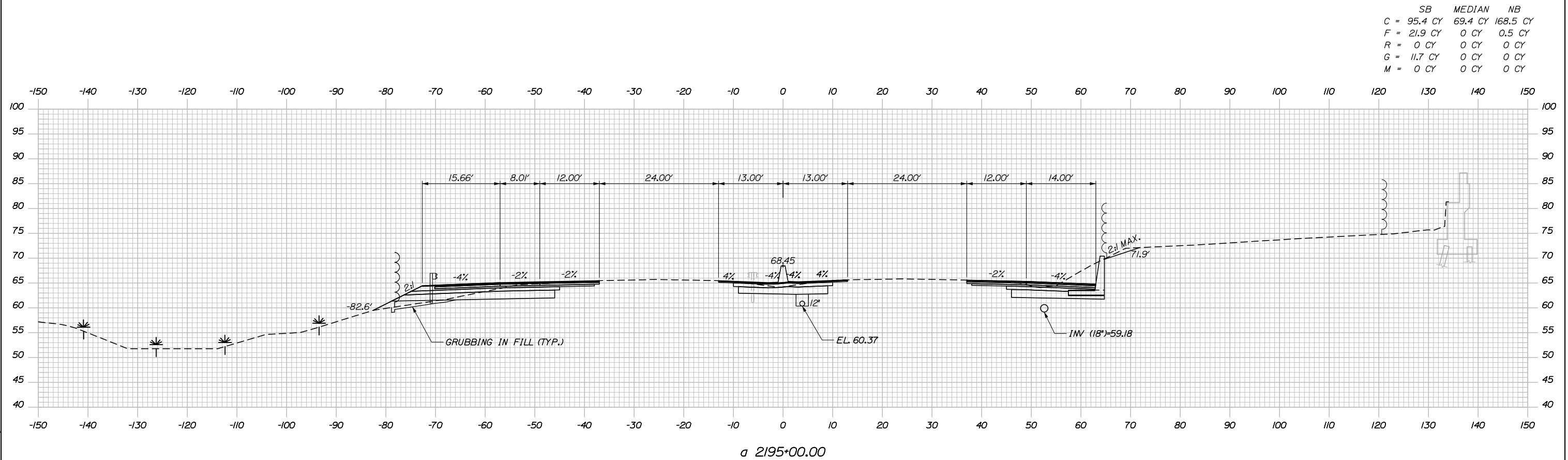
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2194+00 TO STA. a 2194+50
 SHEET NUMBER: XS-38
 CONTRACT: 2020.03
 134 OF 310

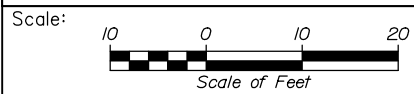
Filename: PAW1_Cross_Section_38.dgn

Date: 2/25/2020

Filename: PAW1_Cross_Section_39.dgn



a 2195+00.00



Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. a 2195+00 TO STA. a 2195+00

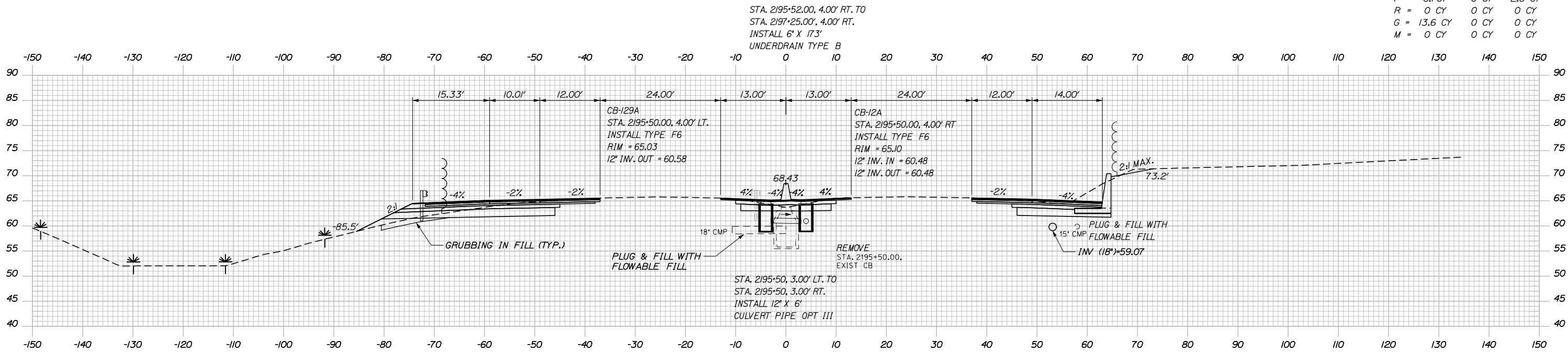
CONTRACT: 2020.03

SHEET NUMBER: XS-39

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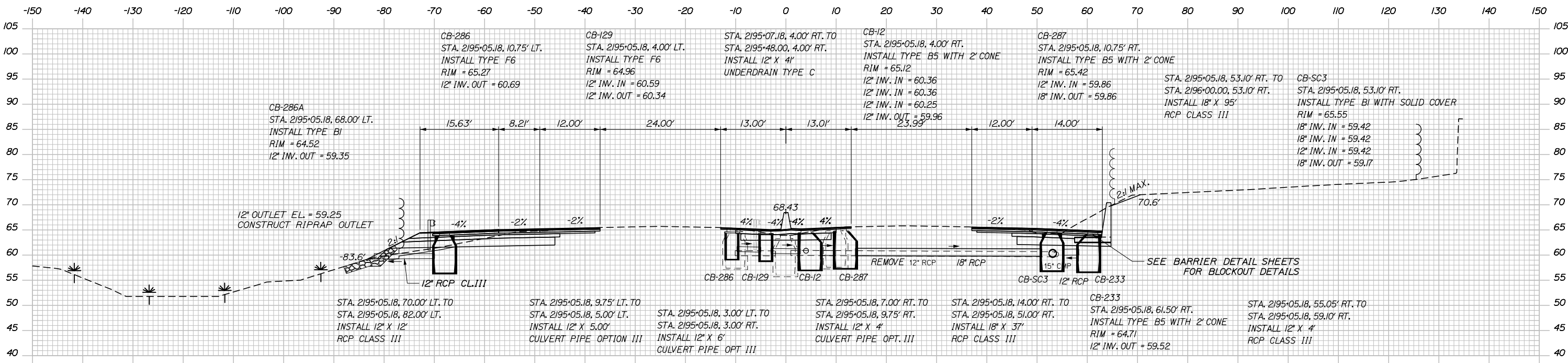
Date: 2/25/2020

	SB	MEDIAN	NB
C	102.8 CY	52.4 CY	135.5 CY
F	6.1 CY	0 CY	2.6 CY
R	0 CY	0 CY	0 CY
G	13.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



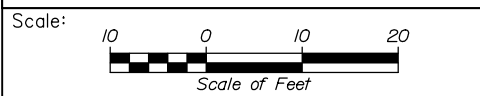
a 2195+50.00

	SB	MEDIAN	NB
C	11.2 CY	6.5 CY	16.0 CY
F	0.8 CY	0 CY	0.1 CY
R	0 CY	0 CY	0 CY
G	1.2 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



a 2195+05.18

Filename: PAW1_Cross_Section_40.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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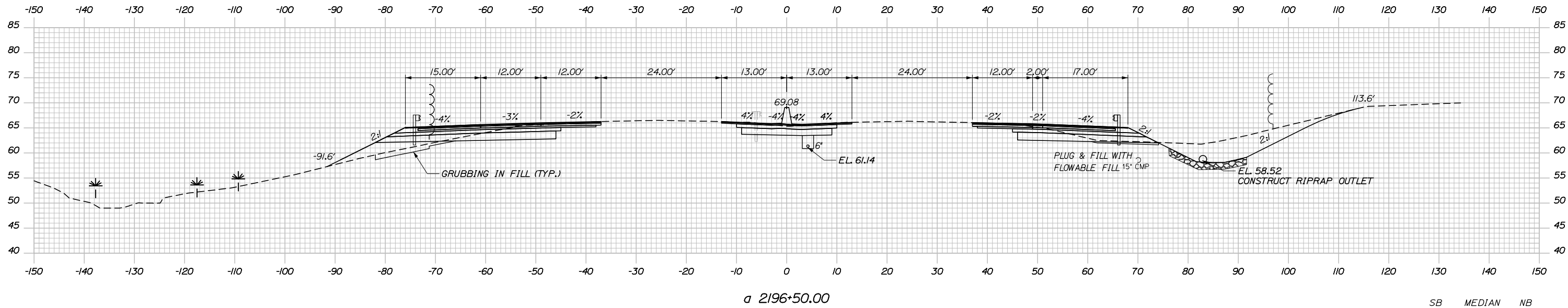
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

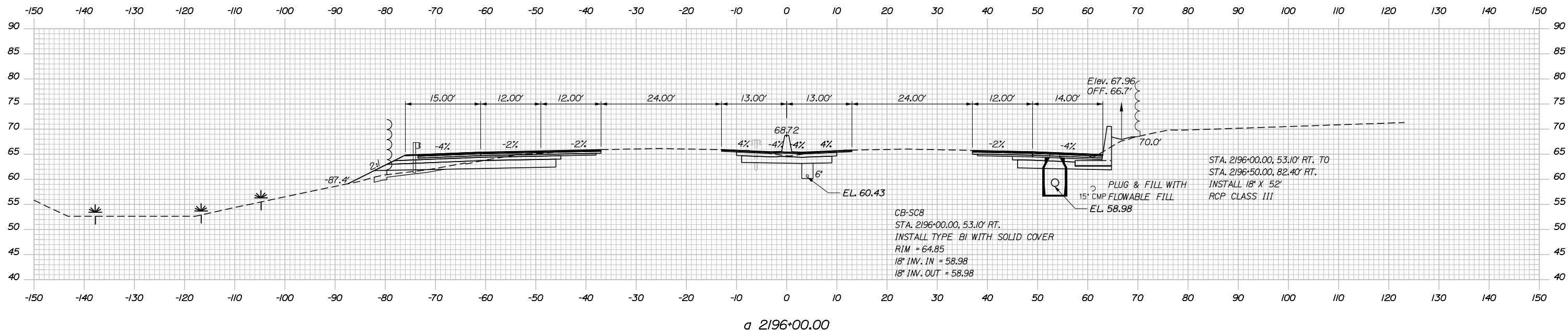
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2195+05 TO STA. a 2195+50
 SHEET NUMBER: XS-40
 CONTRACT: 2020.03
 136 OF 310

Date: 2/25/2020

	SB	MEDIAN	NB
C	95.9 CY	76.0 CY	185.6 CY
F	34.1 CY	0 CY	2.2 CY
R	0 CY	0 CY	0 CY
G	18.7 CY	0 CY	3.8 CY
M	0 CY	0 CY	0 CY



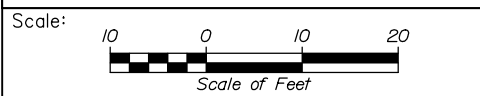
	SB	MEDIAN	NB
C	103.8 CY	65.6 CY	135.4 CY
F	15.6 CY	0 CY	4.8 CY
R	0 CY	0 CY	0 CY
G	15.8 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



CB-SC8
 STA. 2196+00.00, 53.10' RT.
 INSTALL TYPE BI WITH SOLID COVER
 RIM = 64.85
 18" INV. IN = 58.98
 18" INV. OUT = 58.98

STA. 2196+00.00, 53.10' RT. TO
 STA. 2196+50.00, 82.40' RT.
 INSTALL 18" X 52"
 RCP CLASS III

Filename: PAW1_Cross_Section_41.dgn



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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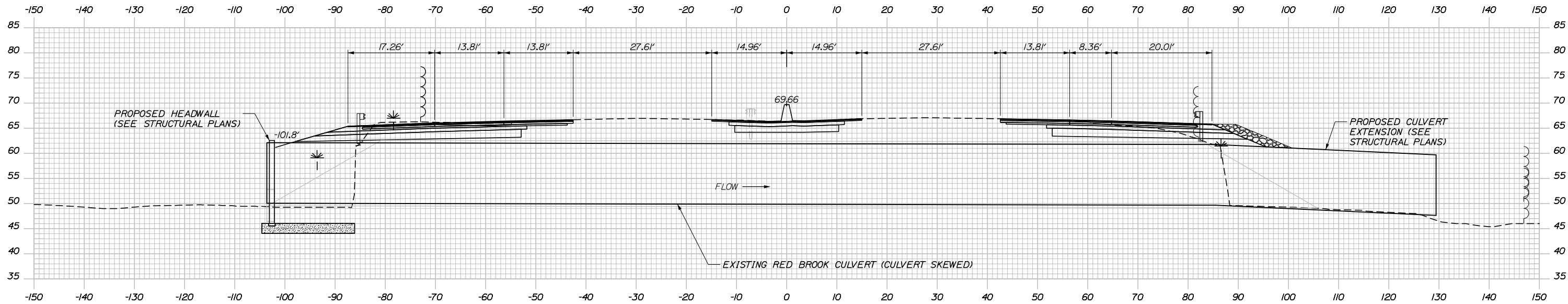
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2196+00 TO STA. a 2196+50

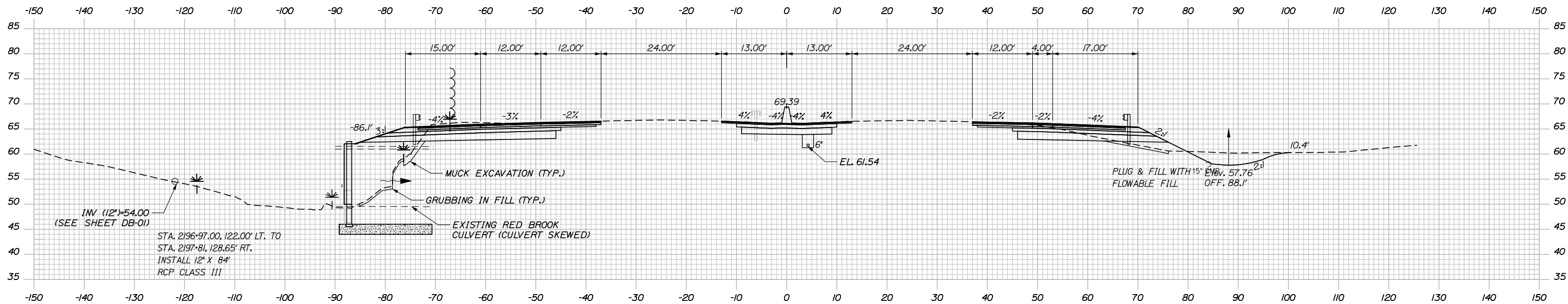
SHEET NUMBER: XS-41
 CONTRACT: 2020.03
 137 OF 310

Date: 2/25/2020



a 2197+49.54 (SKEWED)

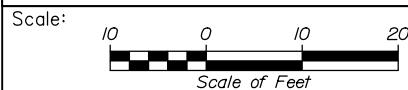
	SB	MEDIAN	NB
C	133.9 CY	80.6 CY	193.4 CY
F	113.6 CY	0 CY	11.2 CY
R	0 CY	0 CY	0 CY
G	15.8 CY	0 CY	9.2 CY
M	5.2 CY	0 CY	0 CY



a 2197+00.00

INV (12")=54.00
(SEE SHEET DB-01)
STA. 2196+97.00, 122.00' LT. TO
STA. 2197+81, 128.65' RT.
INSTALL 12" X 84"
RCP CLASS III

STATION 2196+75.00
APPROX. ELEV. 14.5
NR PROBE



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. a 2197+00 TO STA. a 2197+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

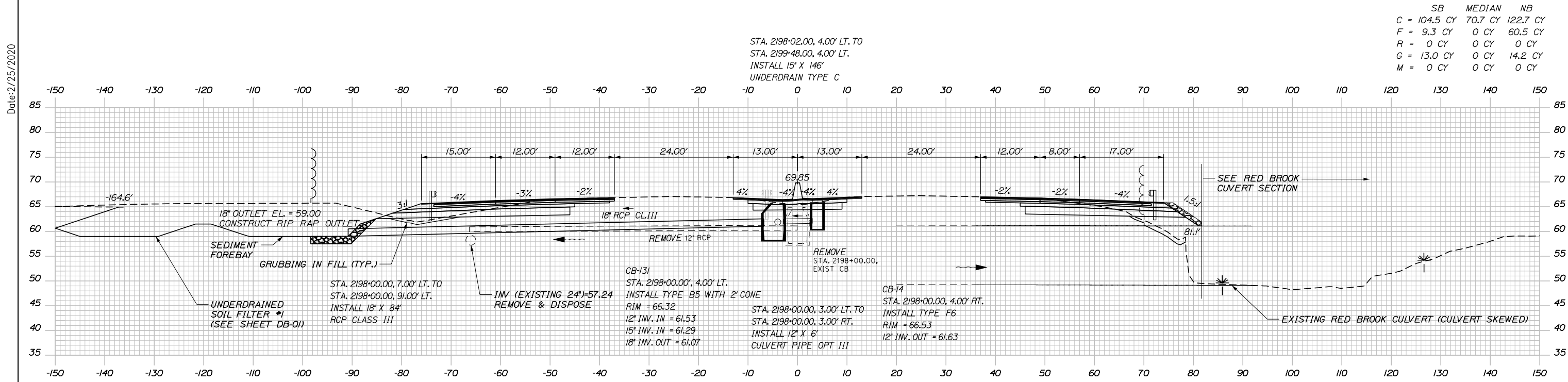
CONTRACT: 2020.03

SHEET NUMBER: XS-42

138 OF 310

Filename: PAW1_Cross_Section_42.dgn

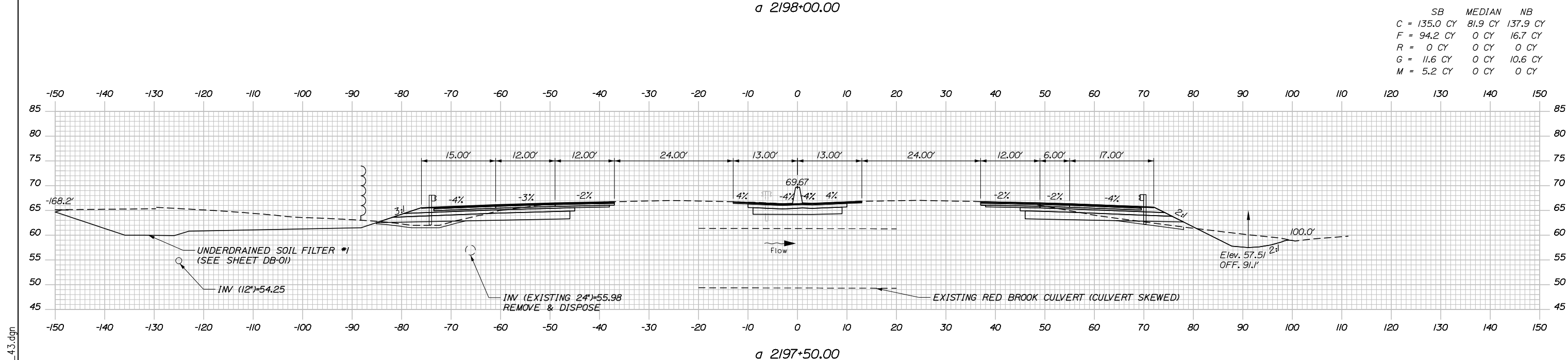
Date: 2/25/2020



STA. 2198+02.00, 4.00' LT. TO
 STA. 2199+48.00, 4.00' LT.
 INSTALL 15' X 146'
 UNDERDRAIN TYPE C

	SB	MEDIAN	NB
C	104.5 CY	70.7 CY	122.7 CY
F	9.3 CY	0 CY	60.5 CY
R	0 CY	0 CY	0 CY
G	13.0 CY	0 CY	14.2 CY
M	0 CY	0 CY	0 CY

a 2198+00.00



	SB	MEDIAN	NB
C	135.0 CY	81.9 CY	137.9 CY
F	94.2 CY	0 CY	16.7 CY
R	0 CY	0 CY	0 CY
G	11.6 CY	0 CY	10.6 CY
M	5.2 CY	0 CY	0 CY

a 2197+50.00

Scale:

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

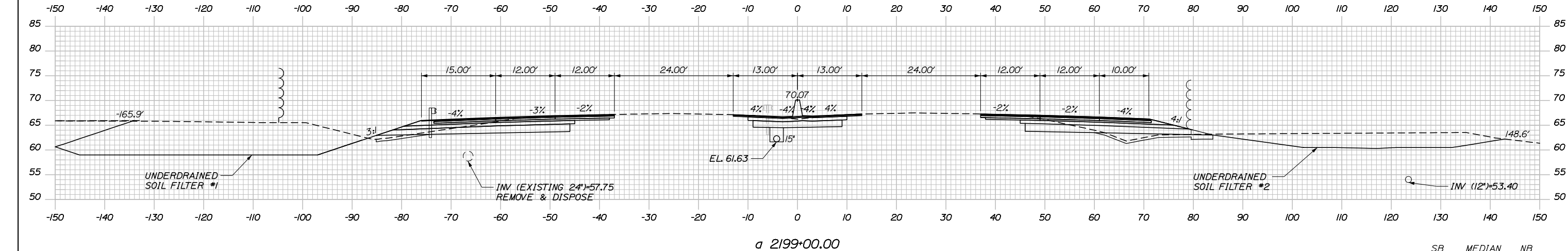
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2197+50 TO STA. a 2198+00

SHEET NUMBER: XS-43
 139 OF 310

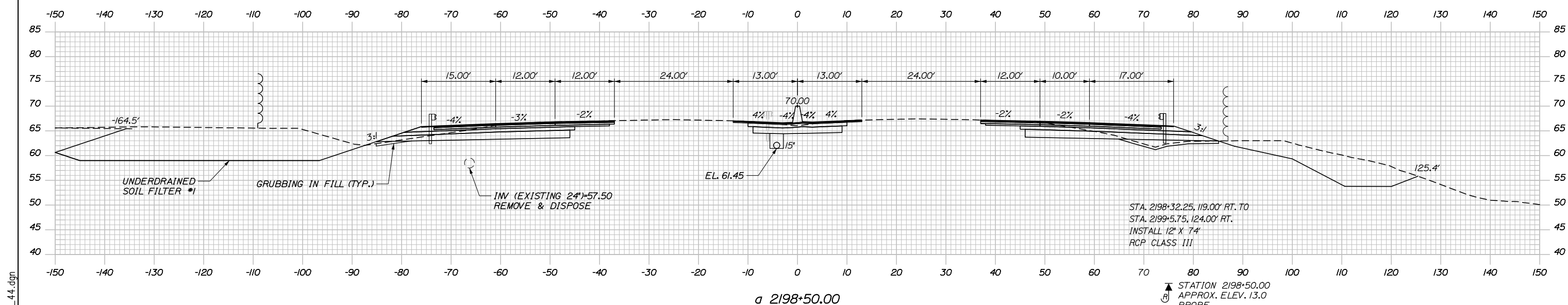
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_43.dgn

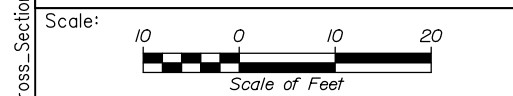
Date: 2/25/2020



	SB	MEDIAN	NB
C	142.0 CY	74.7 CY	205.3 CY
F	4.4 CY	0 CY	17.7 CY
R	0 CY	0 CY	0 CY
G	6.5 CY	0 CY	21.0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	137.3 CY	66.6 CY	226.4 CY
F	4.4 CY	0 CY	63.6 CY
R	0 CY	0 CY	0 CY
G	7.9 CY	0 CY	17.8 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2198+50 TO STA. a 2199+00

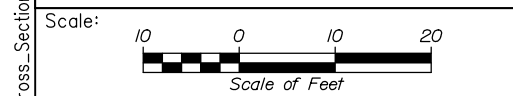
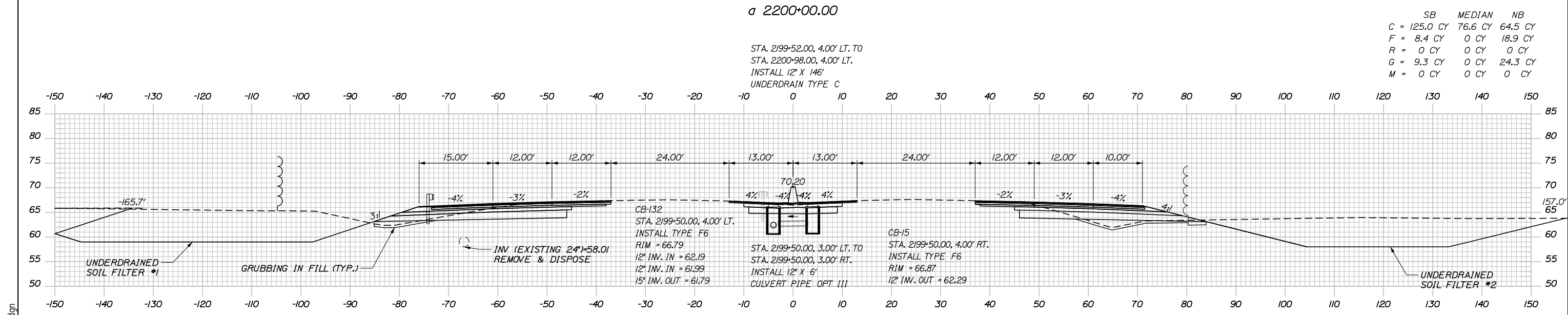
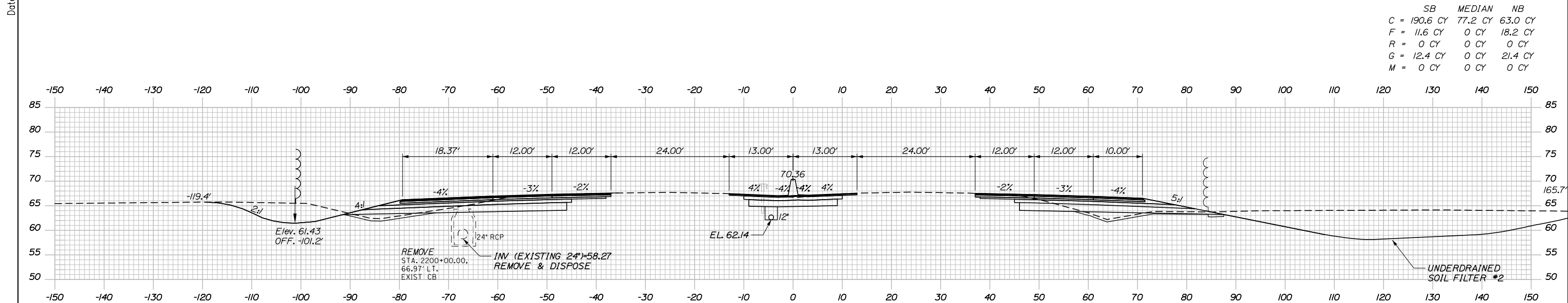
SHEET NUMBER: XS-44

CONTRACT: 2020.03

140 OF 310

Filename: PAW1_Cross_Section_44.dgn

Date: 2/25/2020



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

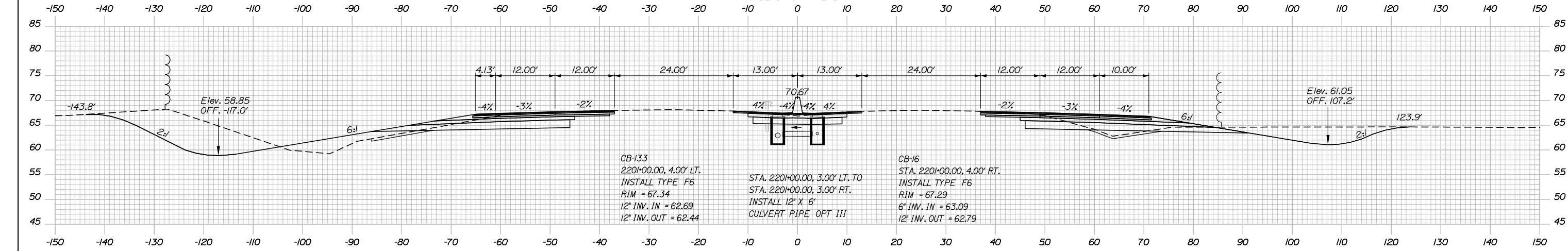
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. a 2199+50 TO STA. a 2200+00

SHEET NUMBER: XS-45
141 OF 310

CONTRACT: 2020.03

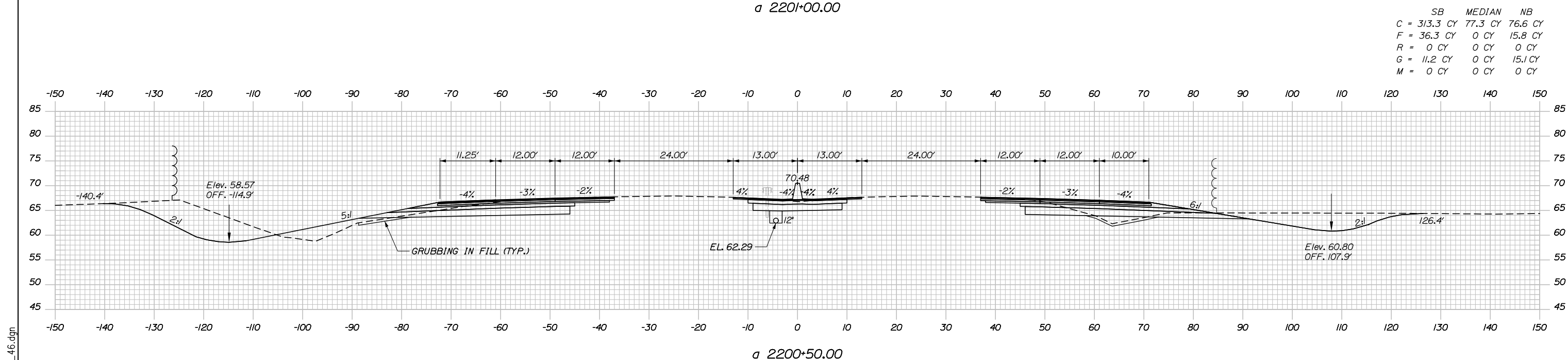
Filename: PAW1_Cross_Section_45.dgn

Date: 2/25/2020



a 220+00.00

	SB	MEDIAN	NB
C	393.8 CY	76.4 CY	159.1 CY
F	67.1 CY	0 CY	13.1 CY
R	0 CY	0 CY	0 CY
G	9.0 CY	0 CY	11.7 CY
M	0 CY	0 CY	0 CY



a 220+50.00

	SB	MEDIAN	NB
C	313.3 CY	77.3 CY	76.6 CY
F	36.3 CY	0 CY	15.8 CY
R	0 CY	0 CY	0 CY
G	11.2 CY	0 CY	15.1 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

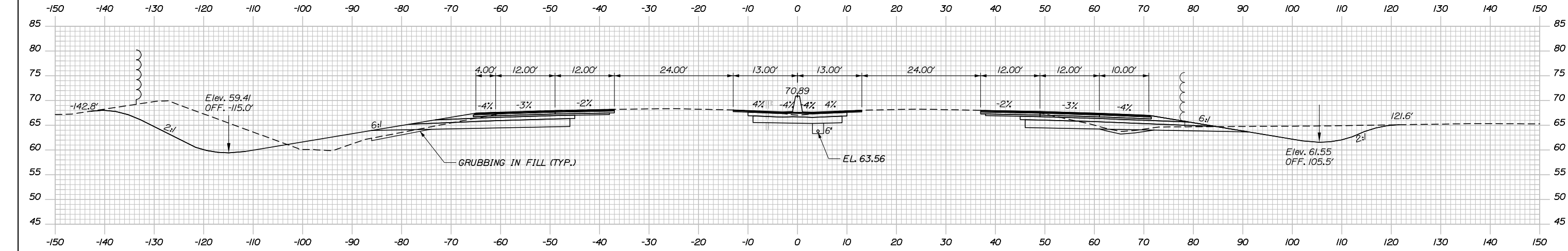
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2200+50 TO STA. a 2201+00

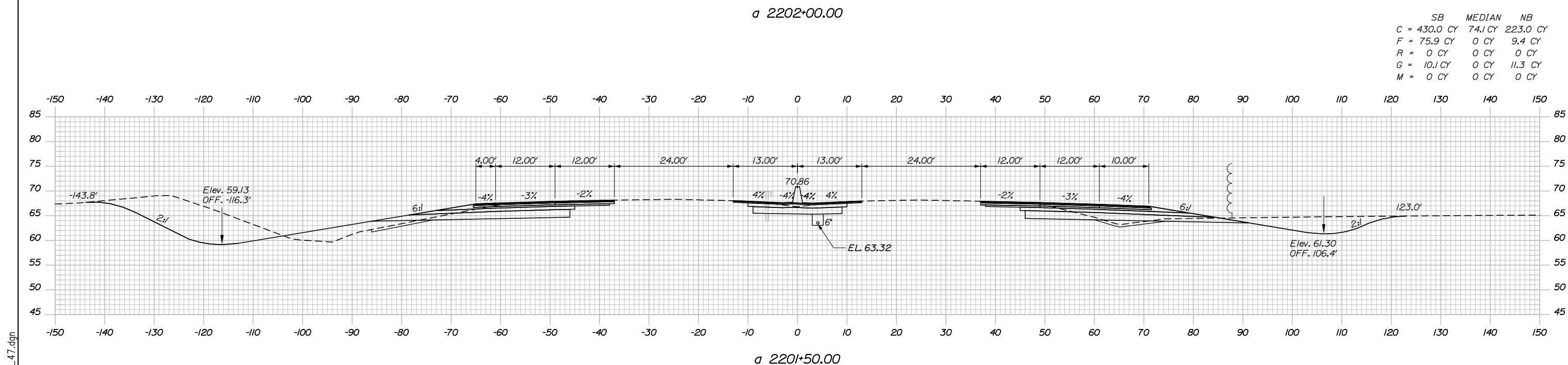
SHEET NUMBER: XS-46
 CONTRACT: 2020.03
 142 OF 310

Filename: PAW1_Cross_Section_46.dgn

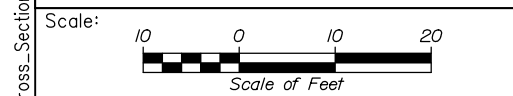
Date: 2/25/2020



	SB	MEDIAN	NB
C	444.8 CY	74.1 CY	218.1 CY
F	73.8 CY	0 CY	5.0 CY
R	0 CY	0 CY	0 CY
G	10.0 CY	0 CY	9.4 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	430.0 CY	74.1 CY	223.0 CY
F	75.9 CY	0 CY	9.4 CY
R	0 CY	0 CY	0 CY
G	10.1 CY	0 CY	11.3 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

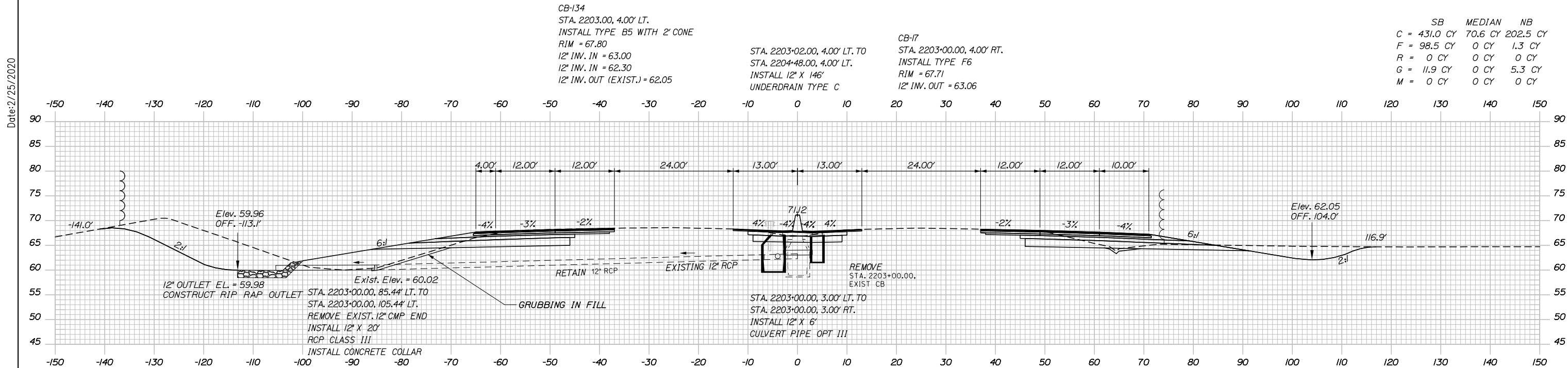
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2201+50 TO STA. a 2202+00

SHEET NUMBER: XS-47
 143 OF 310

CONTRACT: 2020.03

Filename: PAW1_Cross_Section_47.dgn

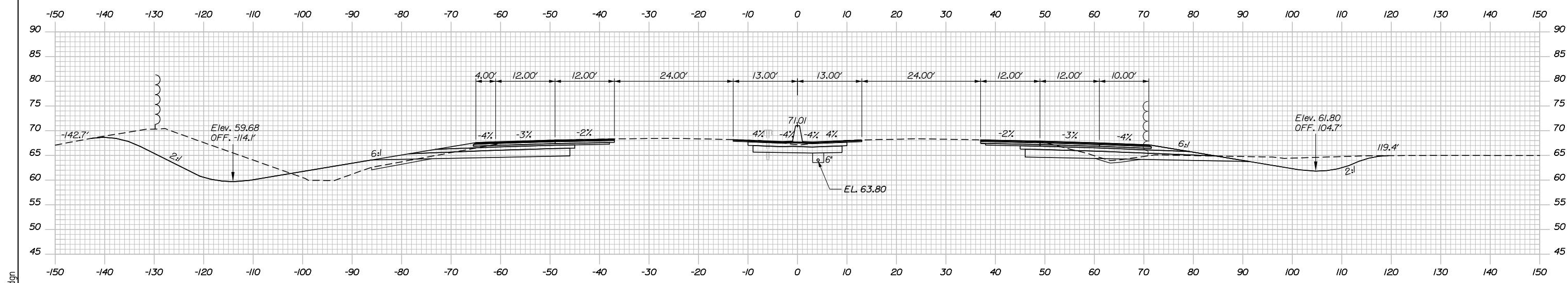
Date: 2/25/2020



a 2203+00.00

	SB	MEDIAN	NB
C	431.0 CY	70.6 CY	202.5 CY
F	98.5 CY	0 CY	1.3 CY
R	0 CY	0 CY	0 CY
G	11.9 CY	0 CY	5.3 CY
M	0 CY	0 CY	0 CY

	SB	MEDIAN	NB
C	443.9 CY	75.9 CY	210.0 CY
F	71.7 CY	0 CY	2.1 CY
R	0 CY	0 CY	0 CY
G	9.8 CY	0 CY	7.1 CY
M	0 CY	0 CY	0 CY



a 2202+50.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2202+50 TO STA. a 2203+00

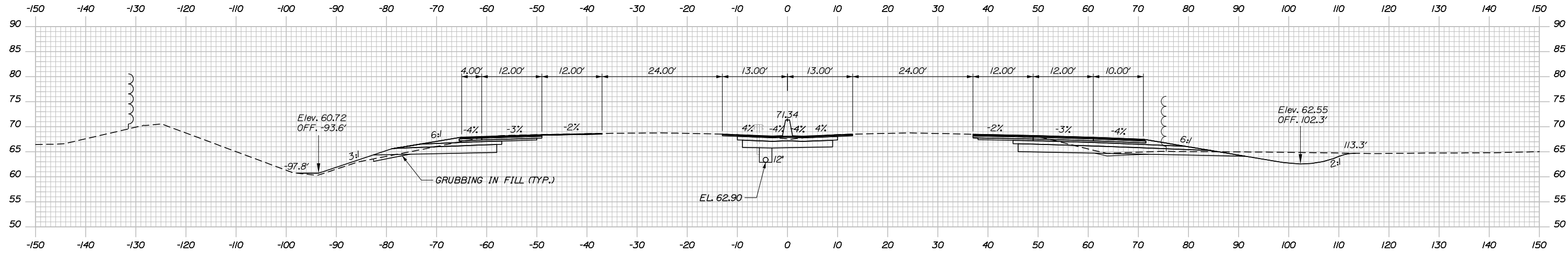
SHEET NUMBER: XS-48
 CONTRACT: 2020.03
 144 OF 310

Filename: PAW1_Cross_Section_48.dgn

Date: 2/25/2020

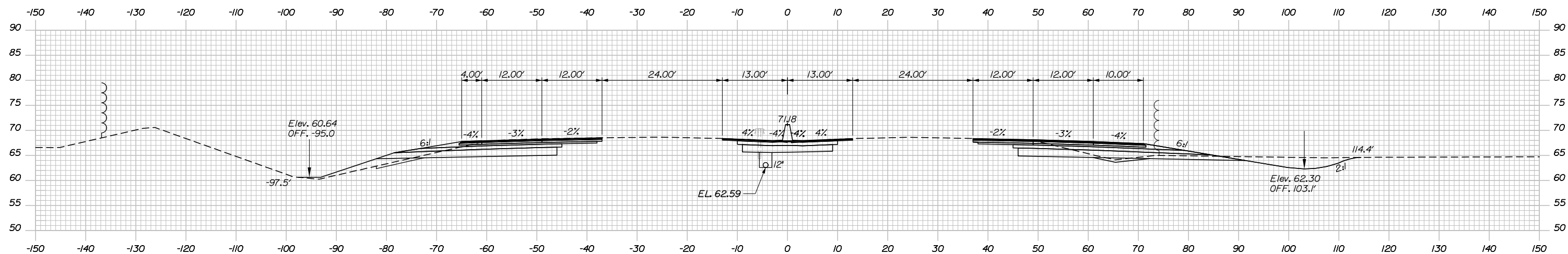
Filename: PAW1_Cross_Section_49.dgn

	SB	MEDIAN	NB
C	115.5 CY	77.3 CY	167.1 CY
F	22.0 CY	0 CY	0.9 CY
R	0 CY	0 CY	0 CY
G	6.7 CY	0 CY	6.1 CY
M	0 CY	0 CY	0 CY

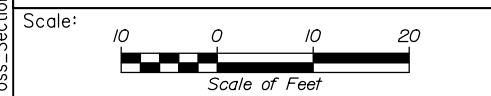


a 2204+00.00

	SB	MEDIAN	NB
C	281.7 CY	71.9 CY	183.0 CY
F	77.0 CY	0 CY	1.4 CY
R	0 CY	0 CY	0 CY
G	10.9 CY	0 CY	5.9 CY
M	0 CY	0 CY	0 CY



a 2203+50.00



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

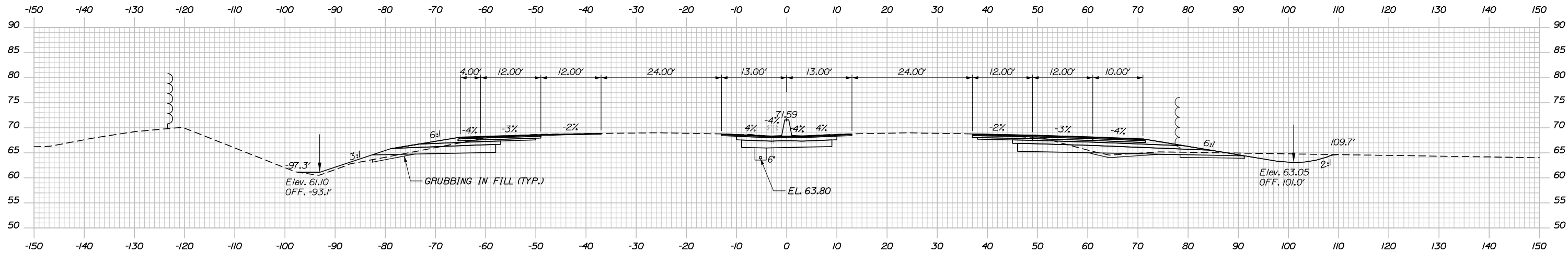
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2203+50 TO STA. a 2204+00

SHEET NUMBER: XS-49
 145 OF 310

CONTRACT: 2020.03

Date: 2/25/2020

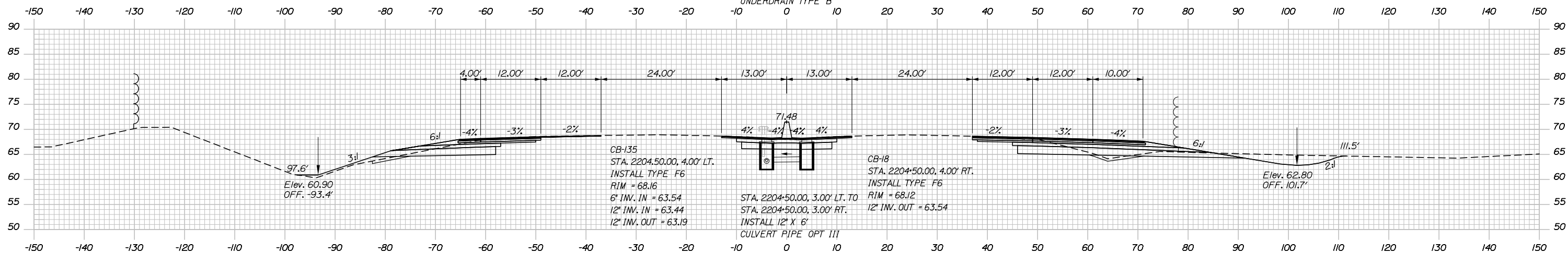
	SB	MEDIAN	NB
C	81.8 CY	80.4 CY	142.9 CY
F	16.3 CY	0 CY	3.0 CY
R	0 CY	0 CY	0 CY
G	6.2 CY	0 CY	14.8 CY
M	0 CY	0 CY	0 CY



a 2205+00.00

STA. 2204+52.00, 4.00' LT. TO
 STA. 2210+48.00, 4.00' LT.
 INSTALL 6" X 596'
 UNDERDRAIN TYPE B

	SB	MEDIAN	NB
C	85.9 CY	78.1 CY	164.4 CY
F	14.4 CY	0 CY	1.9 CY
R	0 CY	0 CY	0 CY
G	5.6 CY	0 CY	6.2 CY
M	0 CY	0 CY	0 CY

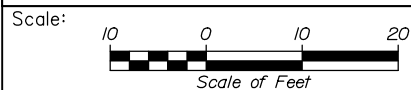


a 2204+50.00

CB-135
 STA. 2204+50.00, 4.00' LT.
 INSTALL TYPE F6
 RIM = 68.16
 6" INV. IN = 63.54
 12" INV. IN = 63.44
 12" INV. OUT = 63.19

CB-18
 STA. 2204+50.00, 4.00' RT.
 INSTALL TYPE F6
 RIM = 68.12
 12" INV. OUT = 63.54

STA. 2204+50.00, 3.00' LT. TO
 STA. 2204+50.00, 3.00' RT.
 INSTALL 12" X 6'
 CULVERT PIPE OPT III



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2204+50 TO STA. a 2205+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-50

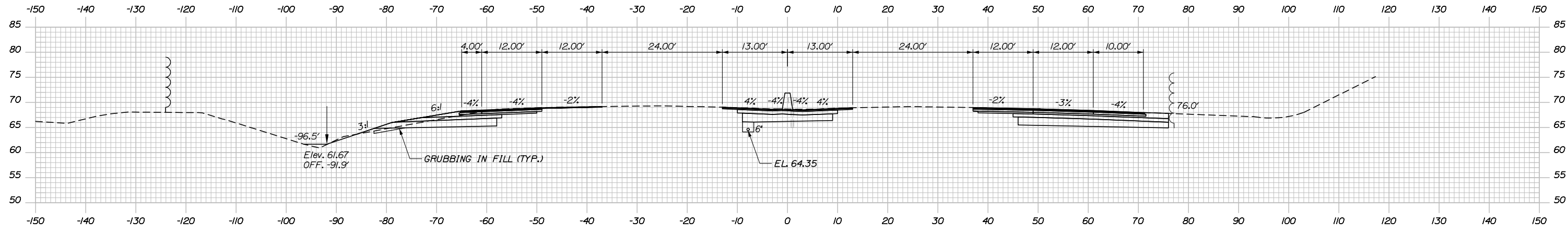
146 OF 310

Filename: PAW1_Cross_Section_50.dgn

Date: 2/25/2020

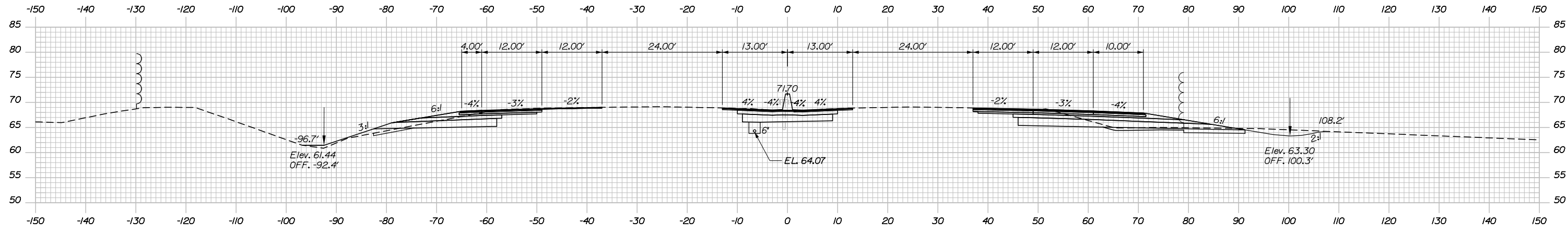
Filename: PAW1_Cross_Section_51.dgn

	SB	MEDIAN	NB
C	86.6 CY	83.6 CY	140.1 CY
F	10.2 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	5.2 CY	0 CY	14.4 CY
M	0 CY	0 CY	0 CY

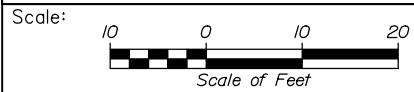


a 2206+00.00

	SB	MEDIAN	NB
C	79.5 CY	80.6 CY	108.8 CY
F	16.1 CY	0 CY	1.1 CY
R	0 CY	0 CY	0 CY
G	6.4 CY	0 CY	25.3 CY
M	0 CY	0 CY	0 CY



a 2205+50.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. a 2205+50 TO STA. a 2206+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

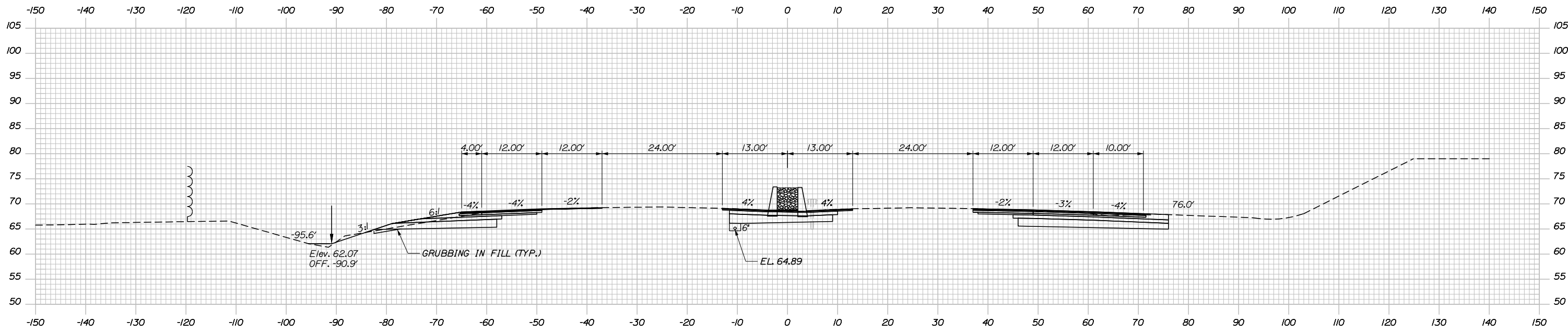
CONTRACT: 2020.03

SHEET NUMBER: XS-51

147 OF 310

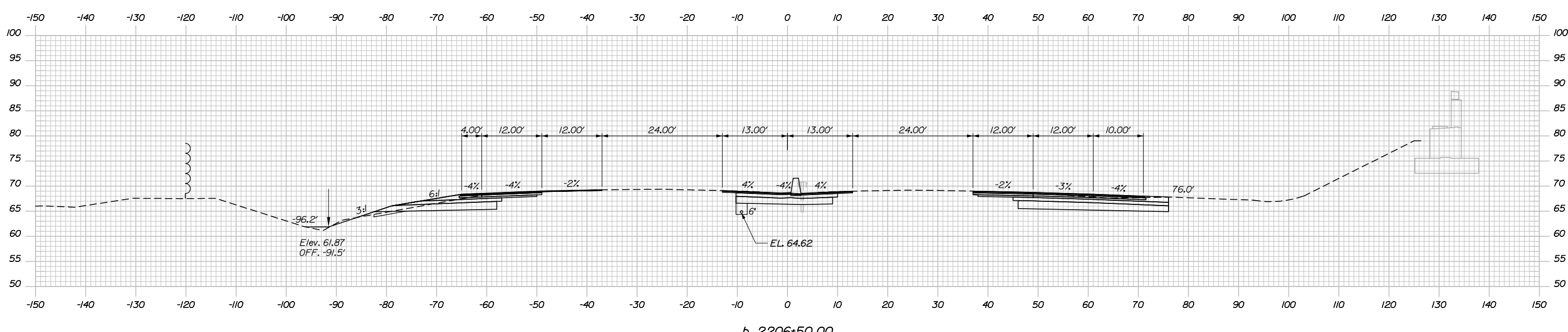
Date: 2/25/2020

	SB	MEDIAN	NB
C	90.0 CY	85.7 CY	174.2 CY
F	5.4 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.9 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



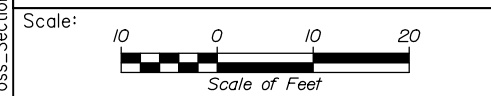
b 2207+00.00

	SB	MEDIAN	NB
C	90.2 CY	85.0 CY	181.4 CY
F	6.3 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	4.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



b 2206+50.00

Filename: PAW1_Cross_Section_52.dgn



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

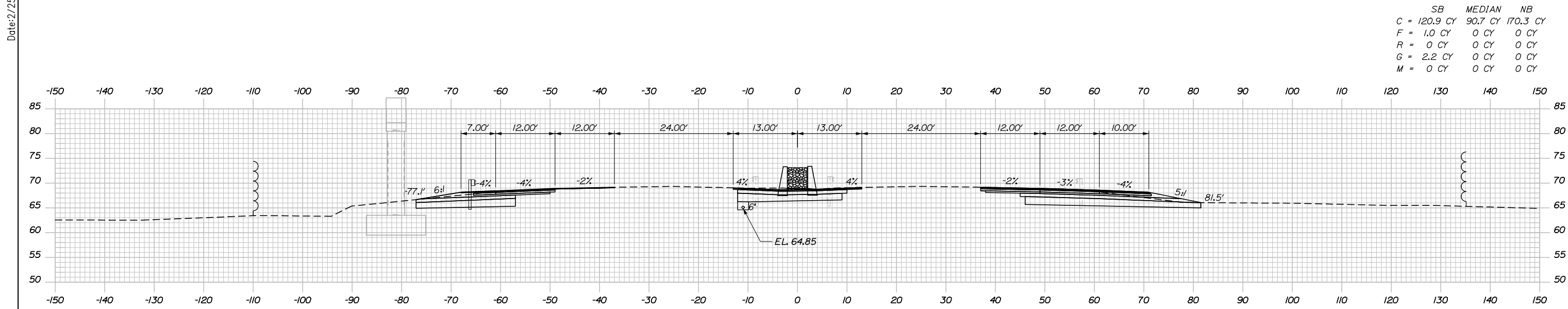
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2206+50 TO STA. b 2207+00

SHEET NUMBER: XS-52

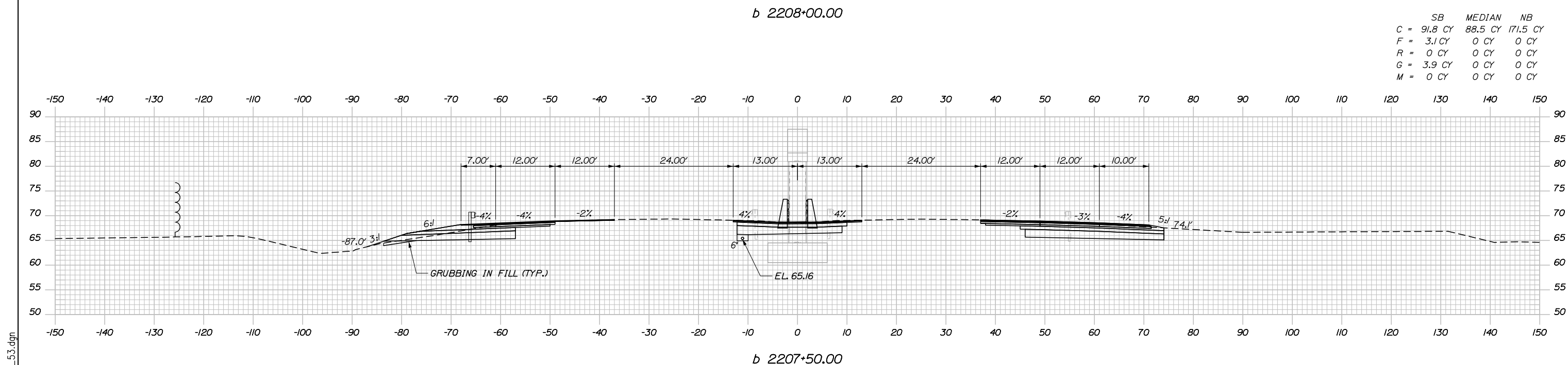
CONTRACT: 2020.03

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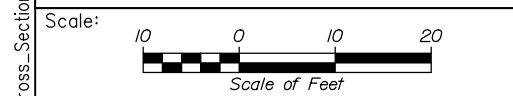
Date: 2/25/2020



	SB	MEDIAN	NB
C	120.9 CY	90.7 CY	170.3 CY
F	1.0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	2.2 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	91.8 CY	88.5 CY	171.5 CY
F	3.1 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.9 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

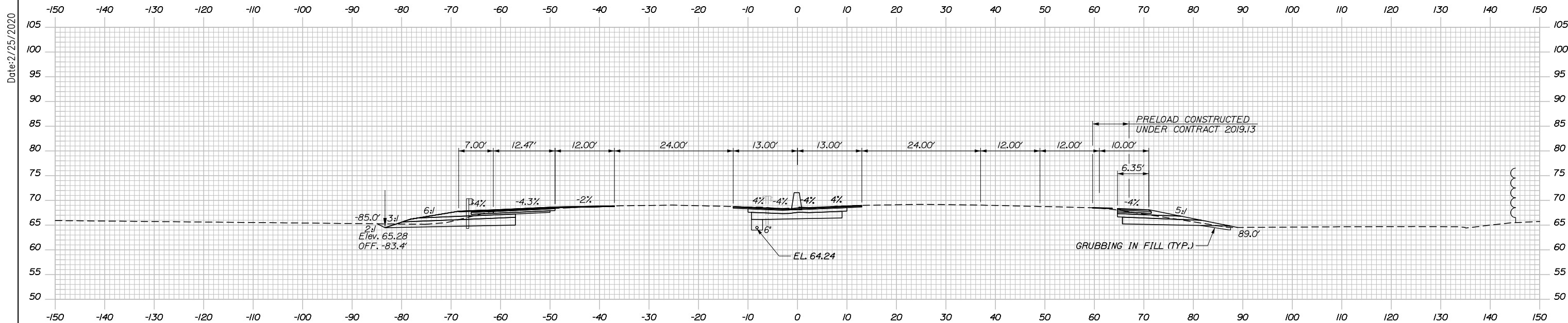
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2207+50 TO STA. b 2208+00

SHEET NUMBER: XS-53
 149 OF 310

CONTRACT: 2020.03

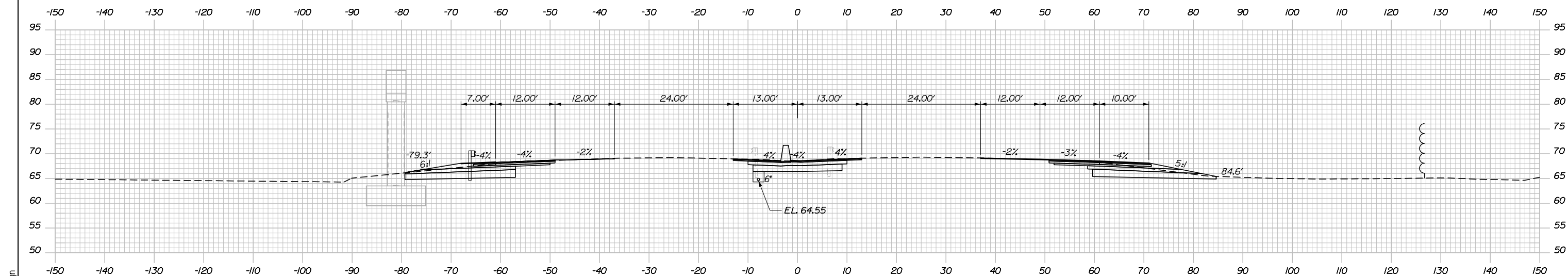
Filename: PAW1_Cross_Section_53.dgn

Date: 2/25/2020



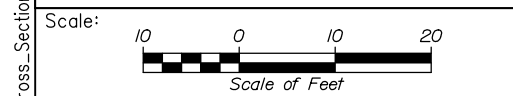
	SB	MEDIAN	NB
C =	139.0 CY	81.3 CY	73.0 CY
F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	1.5 CY
M =	0 CY	0 CY	0 CY

b 2209+00.00



	SB	MEDIAN	NB
C =	144.7 CY	87.7 CY	134.4 CY
F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY

b 2208+50.00



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	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. b 2208+50 TO STA. b 2209+00

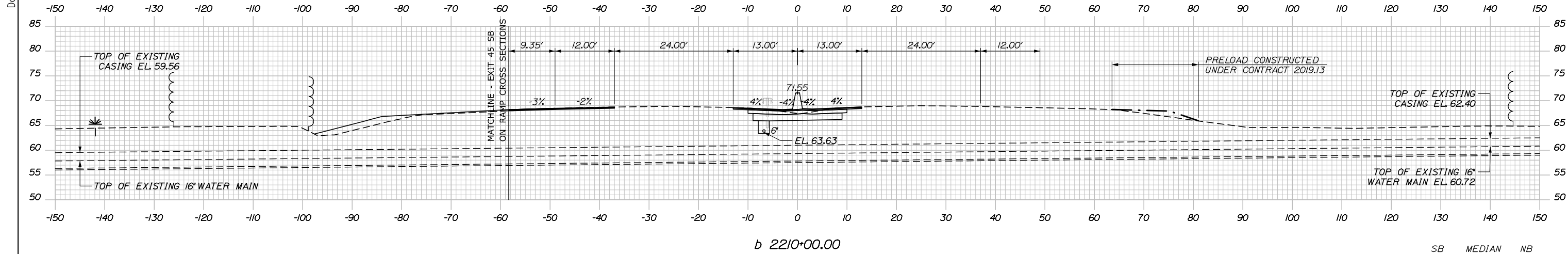
CONTRACT: 2020.03

SHEET NUMBER: XS-54

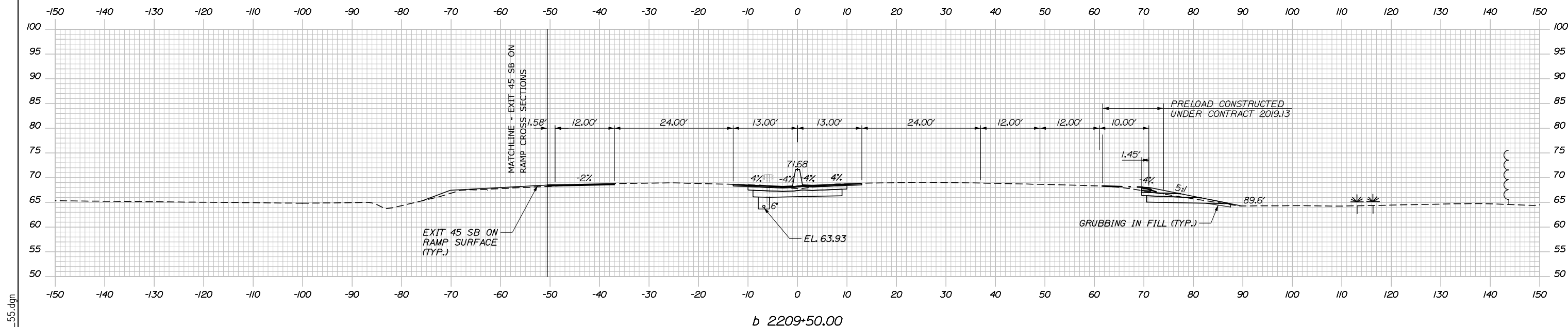
150 OF 310

Filename: PAW1_Cross_Section_54.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	30.4 CY	73.0 CY	18.1 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	1.5 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	80.6 CY	77.5 CY	43.0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	3.4 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

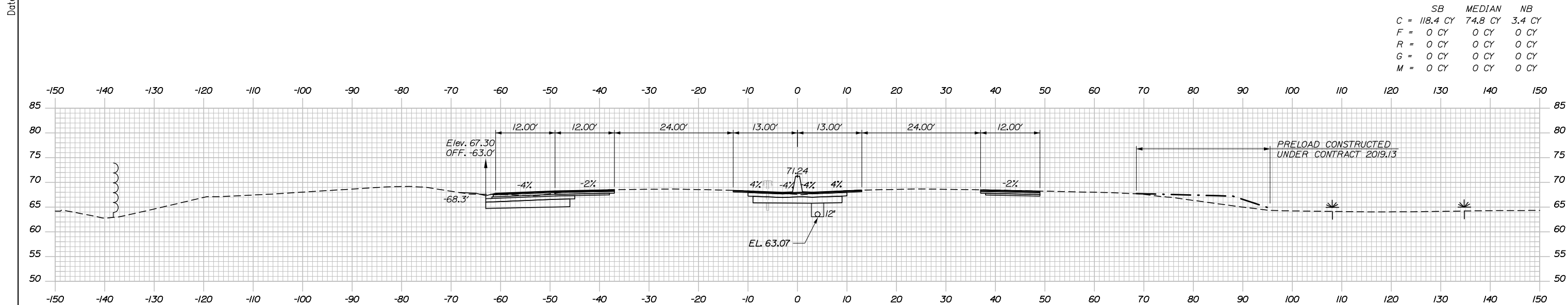
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2209+50 TO STA. b 2210+00

SHEET NUMBER: XS-55
 CONTRACT: 2020.03
 151 OF 310

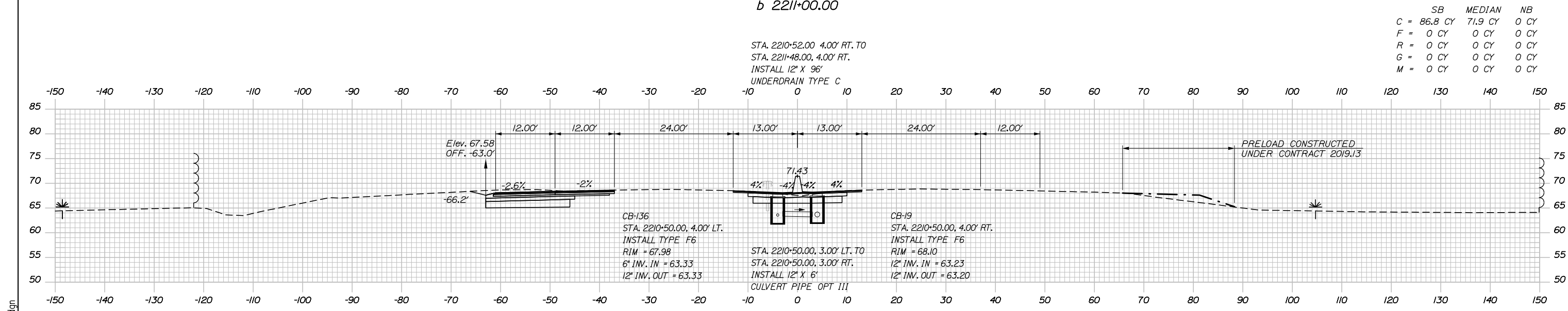
Filename: PAW1_Cross_Section_55.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	118.4 CY	74.8 CY	3.4 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

b 2211+00.00



	SB	MEDIAN	NB
C	86.8 CY	71.9 CY	0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

b 2210+50.00

Scale: 1" = 20'

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

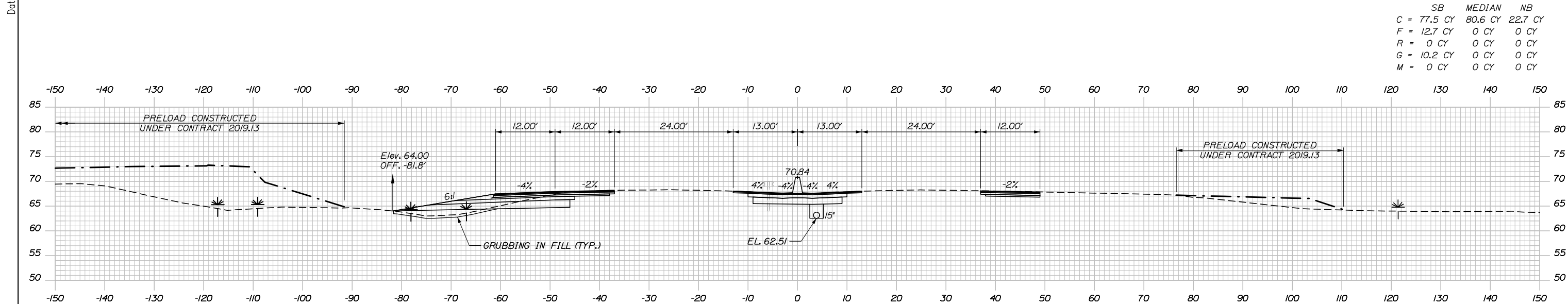
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. b 2210+50 TO STA. b 2211+00

SHEET NUMBER: XS-56
152 OF 310

CONTRACT: 2020.03

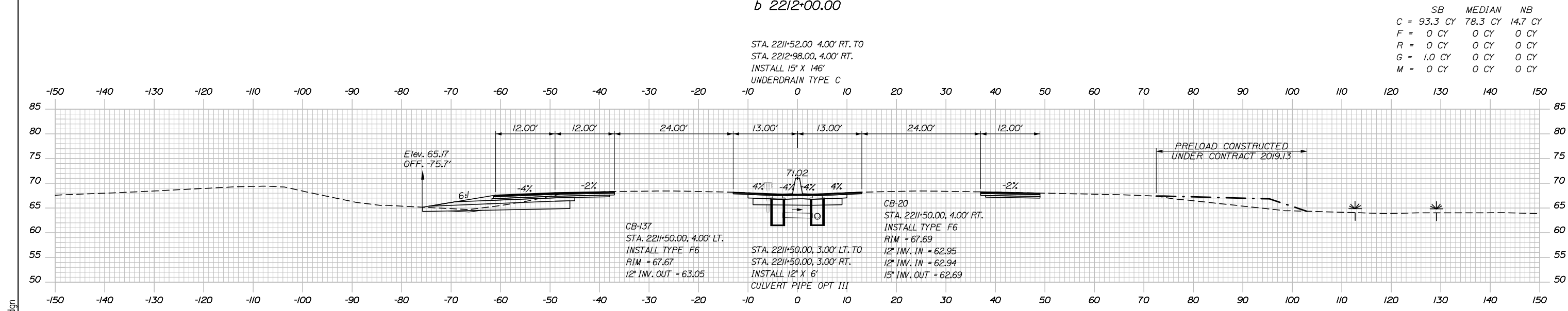
Filename: PAW1_Cross_Section_56.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	77.5 CY	80.6 CY	22.7 CY
F	12.7 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	10.2 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

b 2212+00.00



	SB	MEDIAN	NB
C	93.3 CY	78.3 CY	14.7 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	1.0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

b 2211+50.00

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

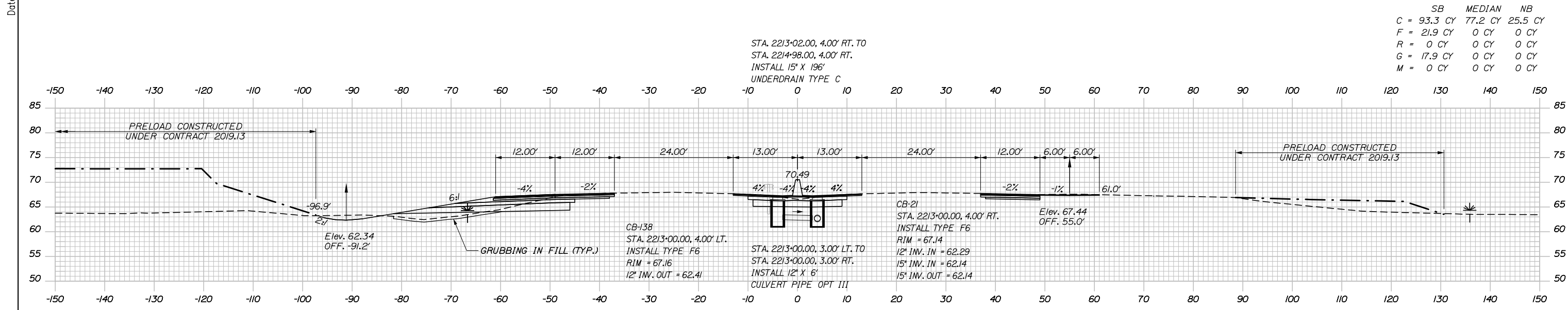
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2211+50 TO STA. b 2212+00

SHEET NUMBER: XS-57
 153 OF 310

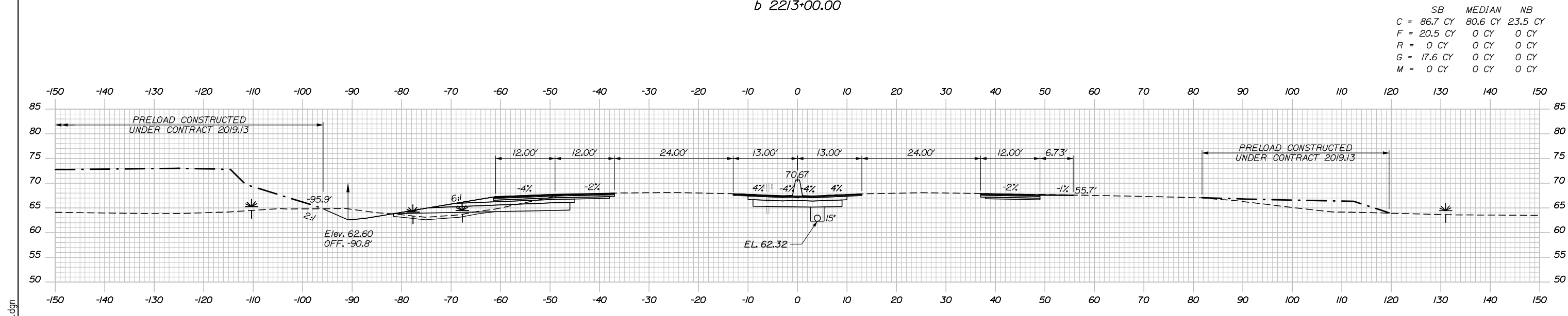
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_57.dgn

Date: 2/25/2020



b 2213+00.00



b 2212+50.00

Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2212+50 TO STA. b 2213+00

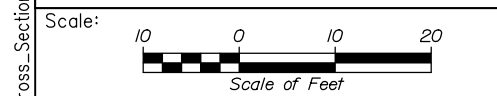
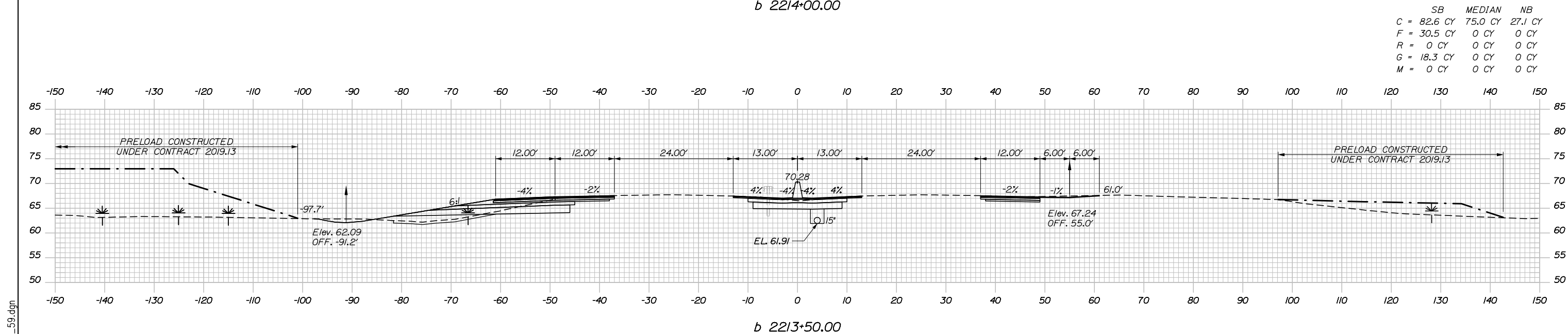
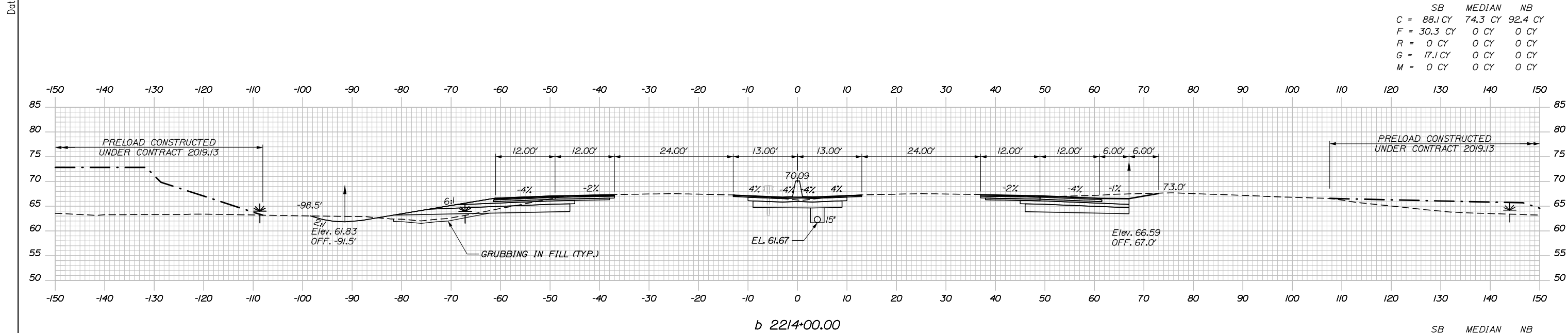
SHEET NUMBER: XS-58

CONTRACT: 2020.03

154 OF 310

Filename: PAW1_Cross_Section_58.dgn

Date: 2/25/2020



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

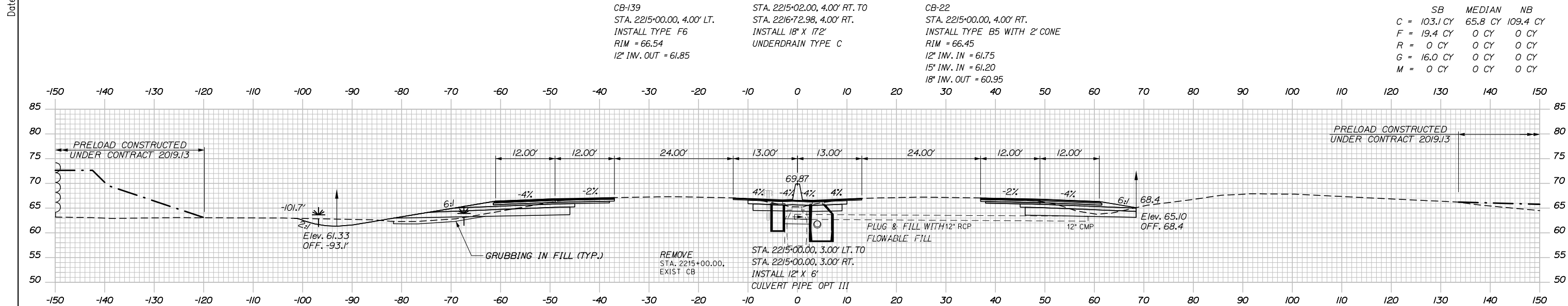
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2213+50 TO STA. b 2214+00

SHEET NUMBER: XS-59
 CONTRACT: 2020.03
 155 OF 310

Filename: PAW1_Cross_Section_59.dgn

Date: 2/25/2020



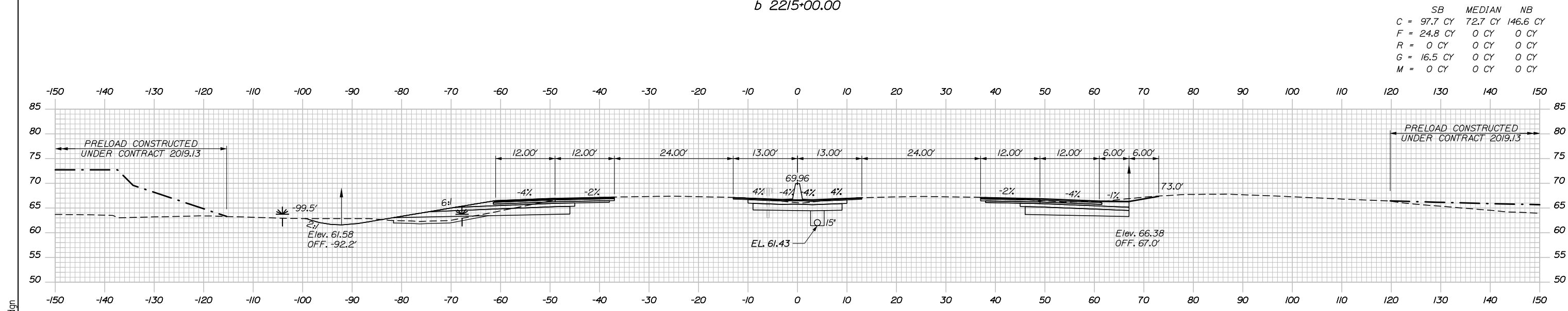
CB-139
 STA. 2215+00.00, 4.00' LT.
 INSTALL TYPE F6
 RIM = 66.54
 12" INV. OUT = 61.85

STA. 2215+02.00, 4.00' RT. TO
 STA. 2216+72.98, 4.00' RT.
 INSTALL 18" X 172'
 UNDERDRAIN TYPE C

CB-22
 STA. 2215+00.00, 4.00' RT.
 INSTALL TYPE B5 WITH 2' CONE
 RIM = 66.45
 12" INV. IN = 61.75
 15" INV. IN = 61.20
 18" INV. OUT = 60.95

	SB	MEDIAN	NB
C	103.1 CY	65.8 CY	109.4 CY
F	19.4 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	16.0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

b 2215+00.00



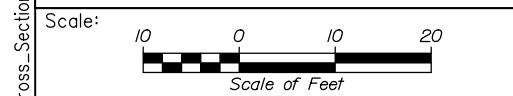
CB-139
 STA. 2215+00.00, 4.00' LT.
 INSTALL TYPE F6
 RIM = 66.54
 12" INV. OUT = 61.85

STA. 2215+02.00, 4.00' RT. TO
 STA. 2216+72.98, 4.00' RT.
 INSTALL 18" X 172'
 UNDERDRAIN TYPE C

CB-22
 STA. 2215+00.00, 4.00' RT.
 INSTALL TYPE B5 WITH 2' CONE
 RIM = 66.45
 12" INV. IN = 61.75
 15" INV. IN = 61.20
 18" INV. OUT = 60.95

	SB	MEDIAN	NB
C	97.7 CY	72.7 CY	146.6 CY
F	24.8 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	16.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

b 2214+50.00



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	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
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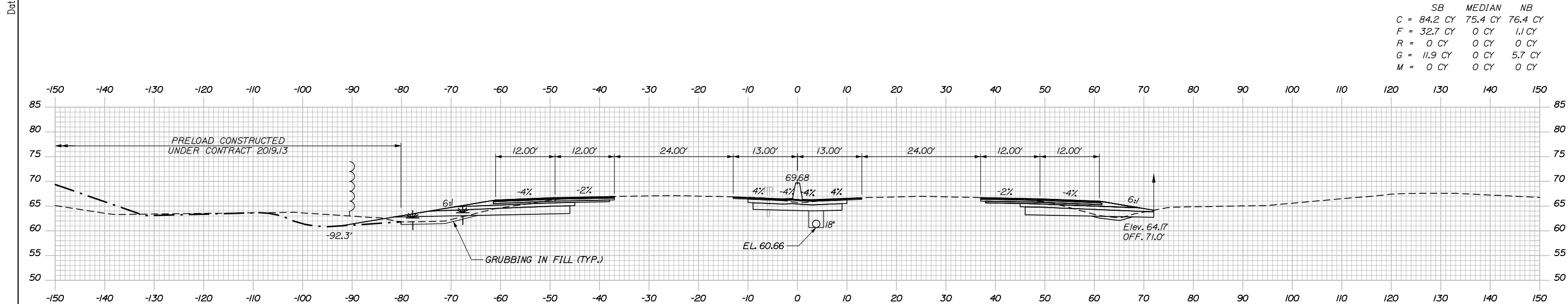


**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2214+50 TO STA. b 2215+00
 SHEET NUMBER: XS-60
 CONTRACT: 2020.03
 156 OF 310

Filename: PAW1_Cross_Section_60.dgn

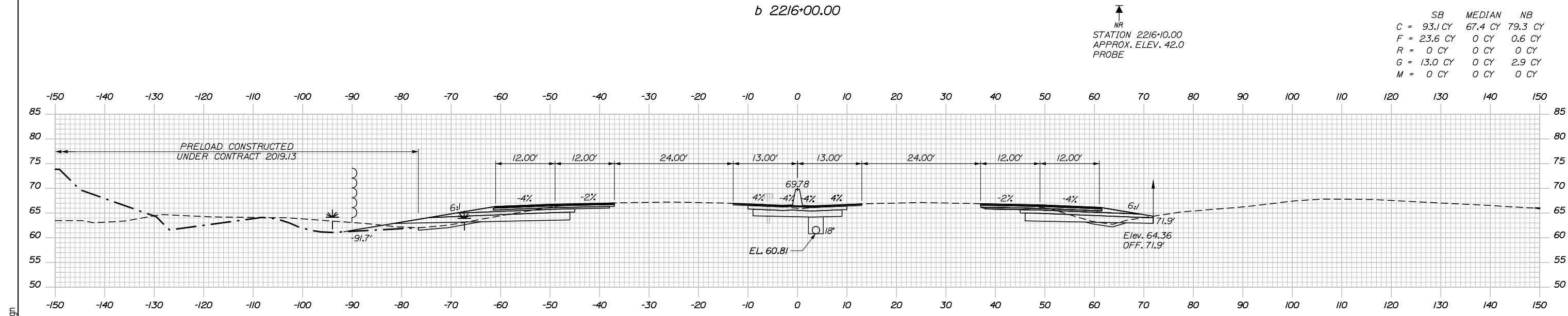
Date: 2/25/2020



b 2216+00.00

NR
STATION 2216+10.00
APPROX. ELEV. 42.0
PROBE

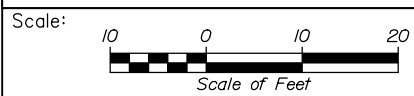
	SB	MEDIAN	NB
C	84.2 CY	75.4 CY	76.4 CY
F	32.7 CY	0 CY	1.1 CY
R	0 CY	0 CY	0 CY
G	11.9 CY	0 CY	5.7 CY
M	0 CY	0 CY	0 CY



b 2215+50.00

	SB	MEDIAN	NB
C	93.1 CY	67.4 CY	79.3 CY
F	23.6 CY	0 CY	0.6 CY
R	0 CY	0 CY	0 CY
G	13.0 CY	0 CY	2.9 CY
M	0 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_61.dgn



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	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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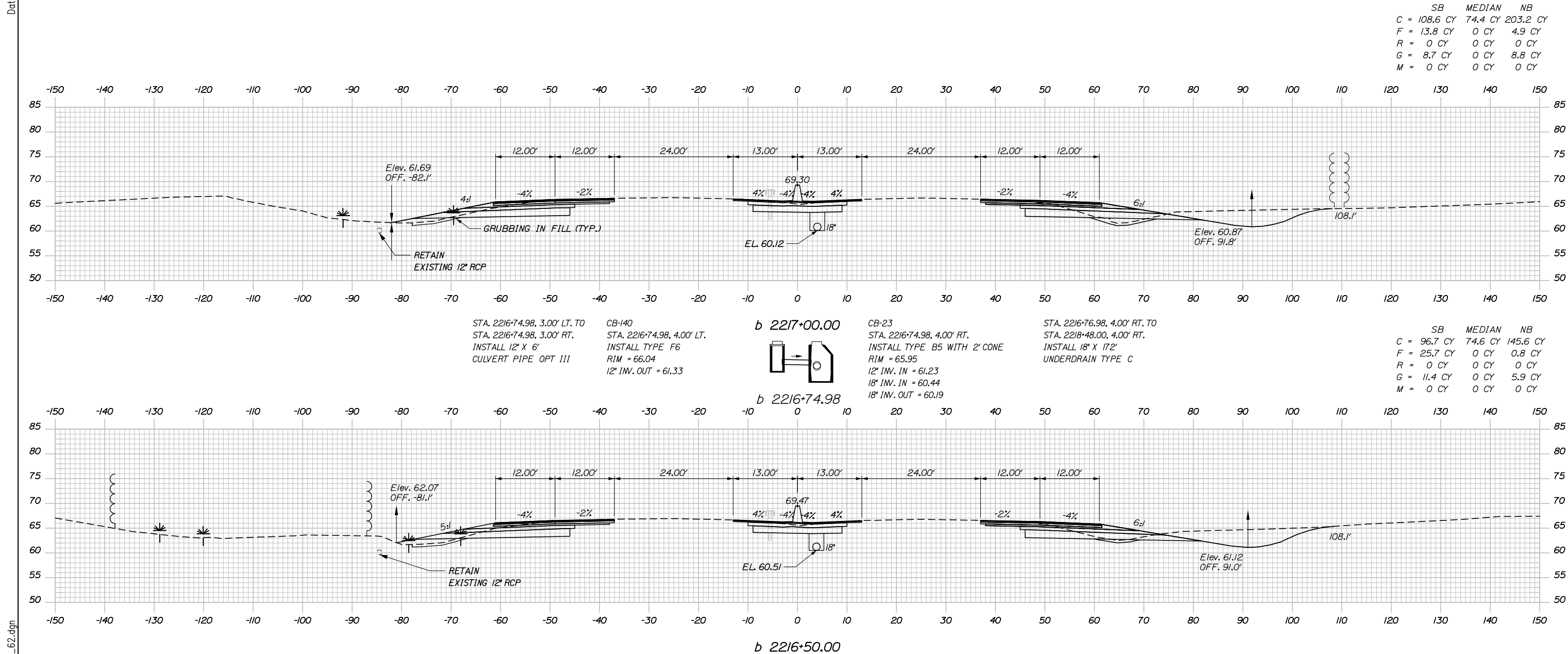
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. b 2215+50 TO STA. b 2216+00

CONTRACT: 2020.03

SHEET NUMBER: XS-61

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Date: 2/25/2020



	SB	MEDIAN	NB
C	108.6 CY	74.4 CY	203.2 CY
F	13.8 CY	0 CY	4.9 CY
R	0 CY	0 CY	0 CY
G	8.7 CY	0 CY	8.8 CY
M	0 CY	0 CY	0 CY

	SB	MEDIAN	NB
C	96.7 CY	74.6 CY	145.6 CY
F	25.7 CY	0 CY	0.8 CY
R	0 CY	0 CY	0 CY
G	11.4 CY	0 CY	5.9 CY
M	0 CY	0 CY	0 CY

STA. 2216+74.98, 3.00' LT. TO
 STA. 2216+74.98, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

CB-140
 STA. 2216+74.98, 4.00' LT.
 INSTALL TYPE F6
 RIM = 66.04
 12" INV. OUT = 61.33

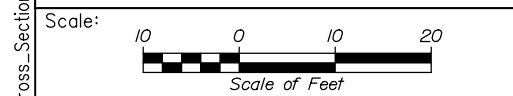
b 2217+00.00

CB-23
 STA. 2216+74.98, 4.00' RT.
 INSTALL TYPE B5 WITH 2' CONE
 RIM = 65.95
 12" INV. IN = 61.23
 18" INV. IN = 60.44
 18" INV. OUT = 60.19

STA. 2216+76.98, 4.00' RT. TO
 STA. 2218+48.00, 4.00' RT.
 INSTALL 18" X 17"
 UNDERDRAIN TYPE C

b 2216+74.98

b 2216+50.00



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	By	Date	By	Date	
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

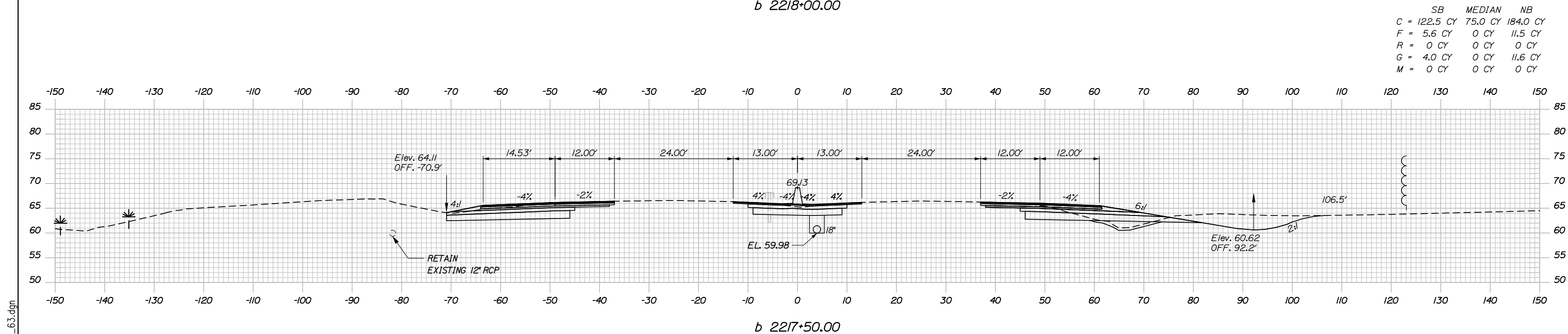
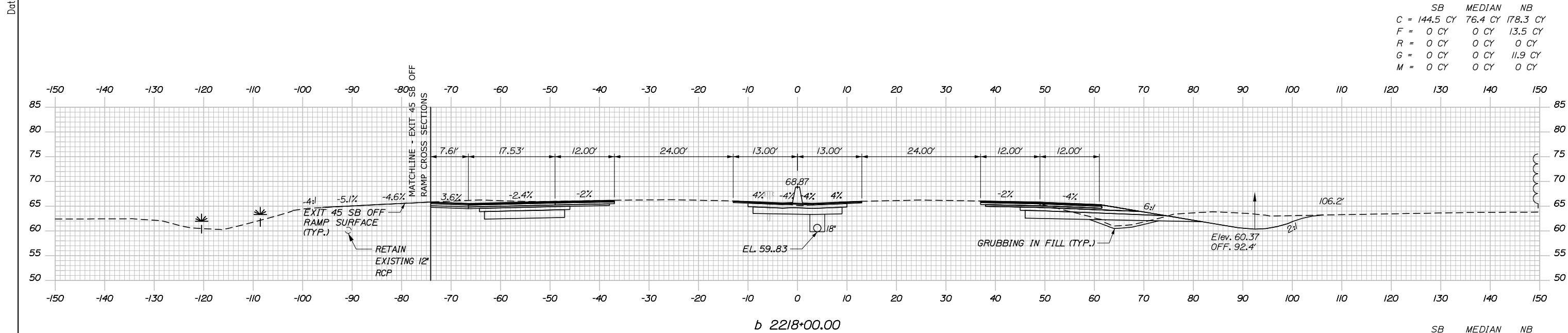
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2216+50 TO STA. b 2217+00

SHEET NUMBER: XS-62
 158 OF 310

CONTRACT: 2020.03

Filename: PAW1_Cross_Section_62.dgn

Date: 2/25/2020



Scale: 1" = 20'

No.	Revision	By	Date

Designed by:

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	By	Date	Checked	By	Date
Designed	JS	2/20	TR	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

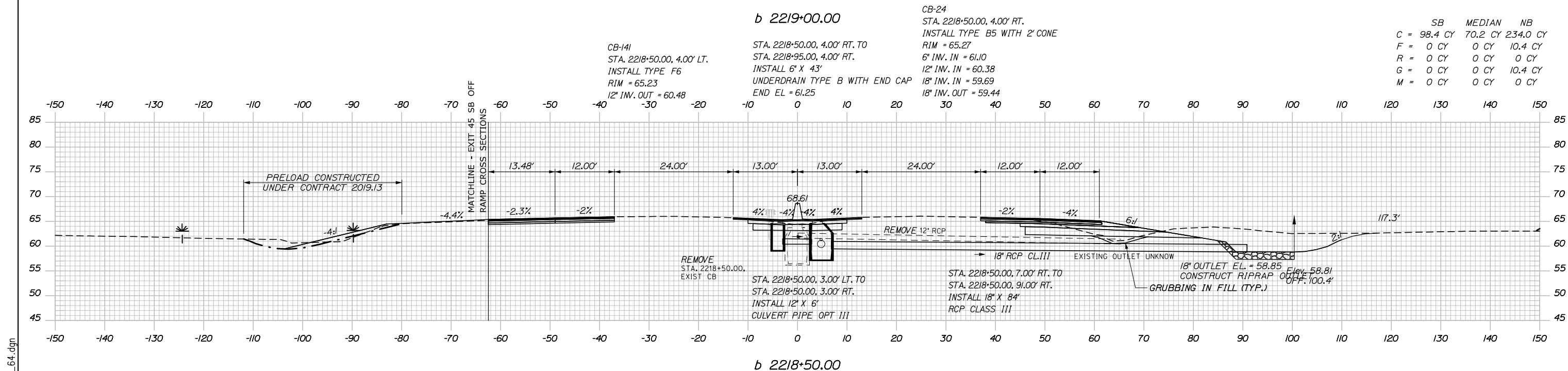
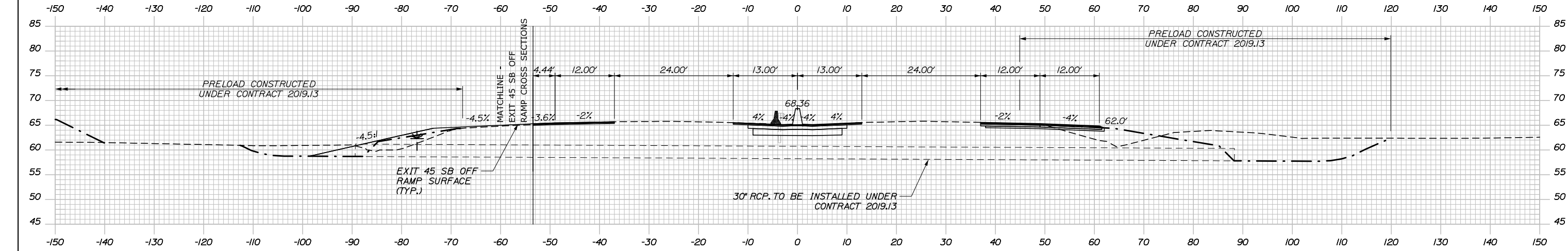
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2217+50 TO STA. b 2218+00

SHEET NUMBER: XS-63
 159 OF 310

CONTRACT: 2020.03

Filename: PAW1_Cross_Section_63.dgn

Date: 2/25/2020



Scale: 1" = 20'

No.	Revision	By	Date

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Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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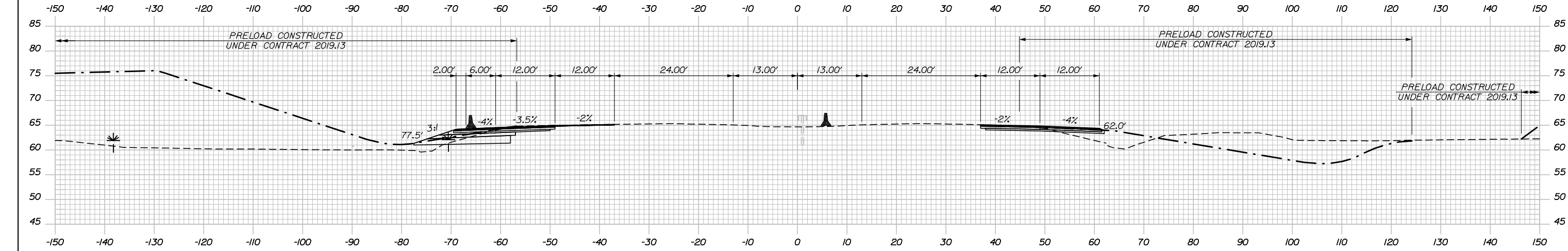
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2218+50 TO STA. b 2219+00

SHEET NUMBER: XS-64
 CONTRACT: 2020.03
 160 OF 310

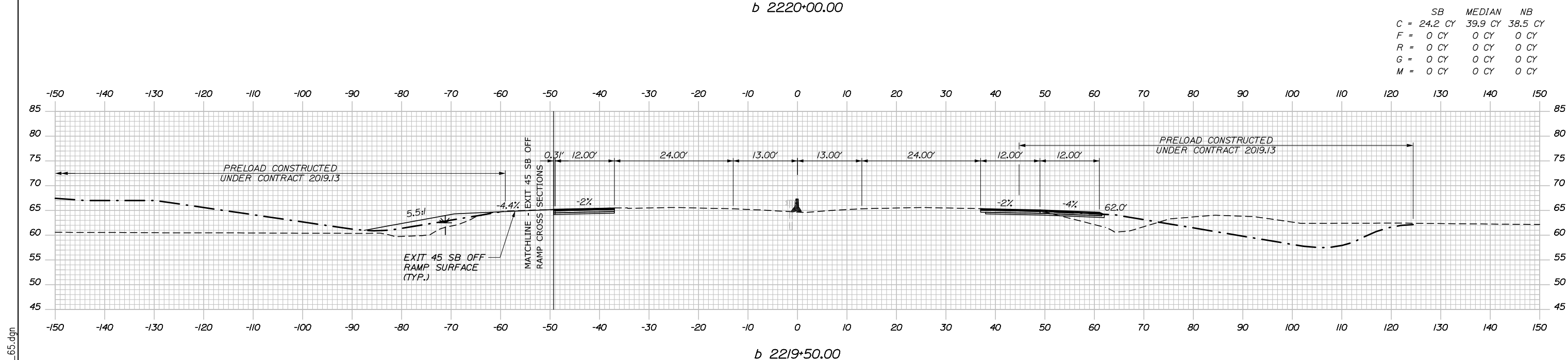
Filename: PAW1_Cross_Section_64.dgn

Date: 2/25/2020



b 2220+00.00

	SB	MEDIAN	NB
C	54.8 CY	0 CY	38.5 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



b 2219+50.00

	SB	MEDIAN	NB
C	24.2 CY	39.9 CY	38.5 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

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PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2219+50 TO STA. b 2220+00

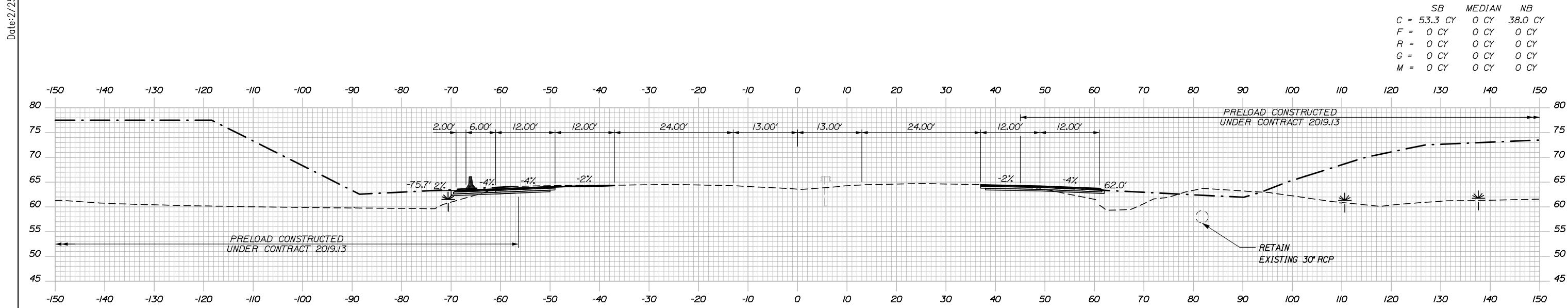
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CONTRACT: 2020.03

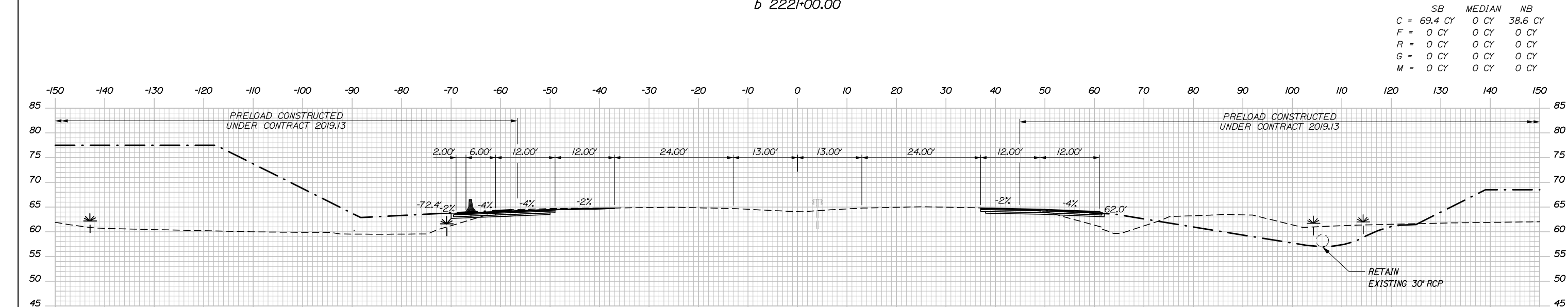
161 OF 310

Filename: PAW1_Cross_Section_65.dgn

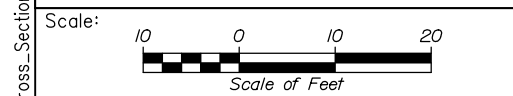
Date: 2/25/2020



b 2221+00.00



b 2220+50.00



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2220+50 TO STA. b 2221+00

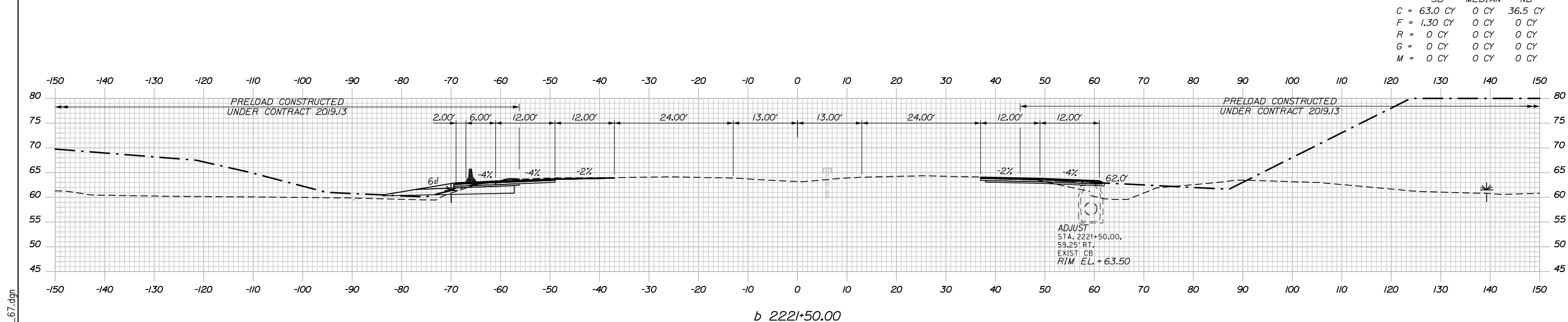
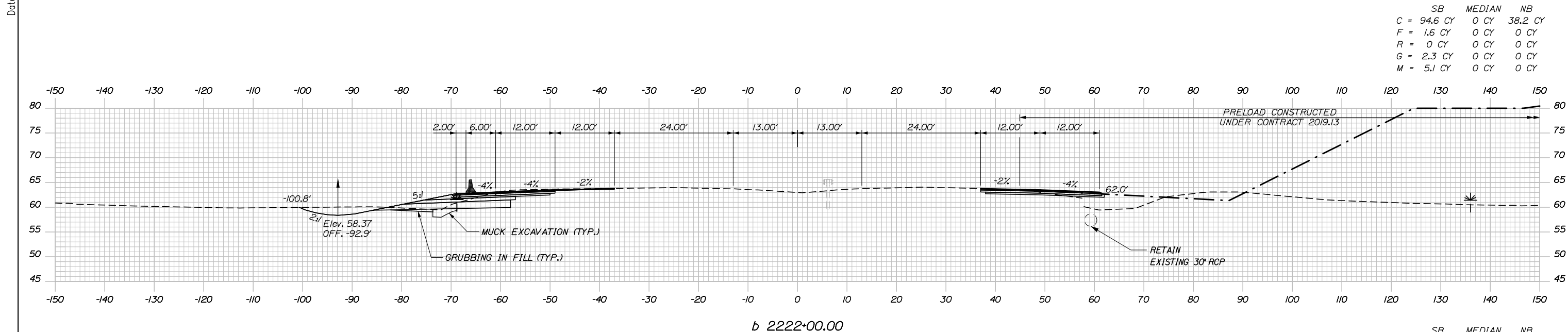
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CONTRACT: 2020.03

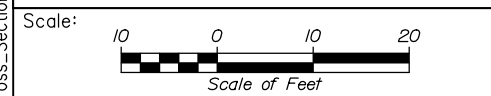
162 OF 310

Filename: PAW1_Cross_Section_66.dgn

Date: 2/25/2020



Filename: PAW1_Cross_Section_67.dgn



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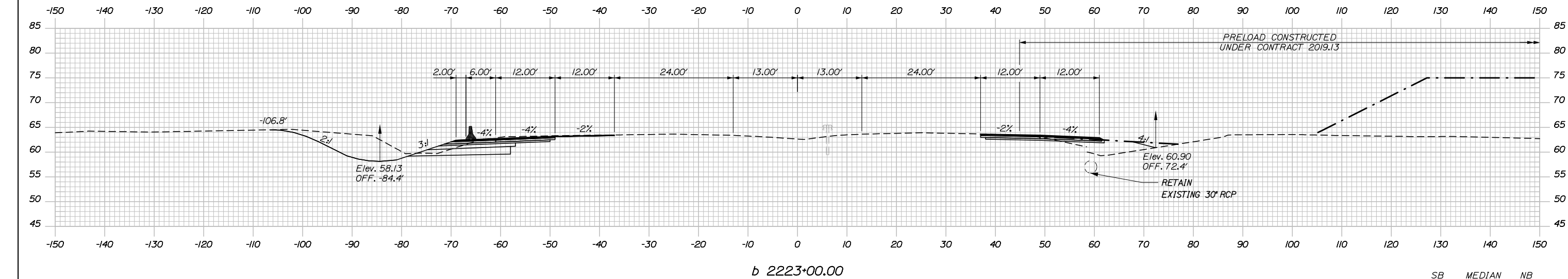
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2221+50 TO STA. b 2222+00

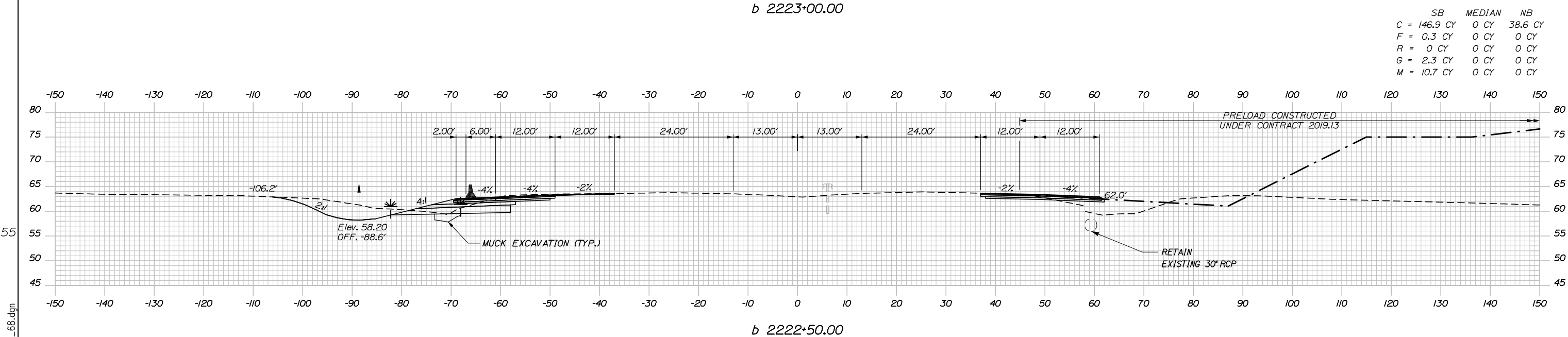
SHEET NUMBER: XS-67
 163 OF 310

CONTRACT: 2020.03

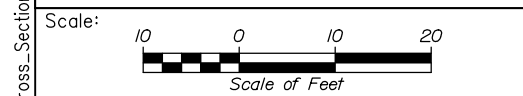
Date: 2/25/2020



	SB	MEDIAN	NB
C	202.4 CY	0 CY	36.0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	5.6 CY	0 CY	0 CY




	SB	MEDIAN	NB
C	146.9 CY	0 CY	38.6 CY
F	0.3 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	2.3 CY	0 CY	0 CY
M	10.7 CY	0 CY	0 CY



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HNTB					
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No.	Revision	By	Date	By	Date
Designed	JS	2/20	Checked	TRS	2/20
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

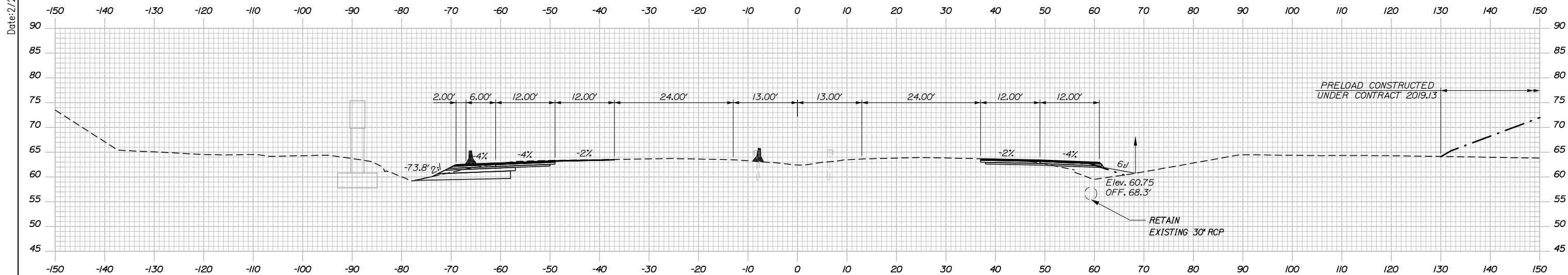
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. b 2222+50 TO STA. b 2223+00

SHEET NUMBER: XS-68
 164 OF 310

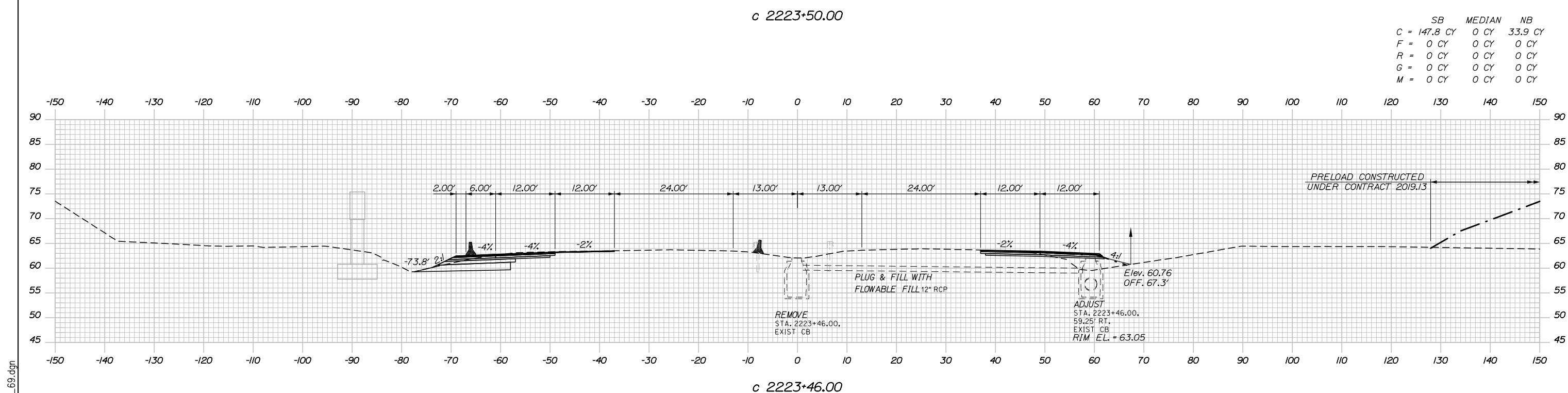
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_68.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C =	7.2 CY	0 CY	2.9 CY
F =	0 CY	0 CY	0.2 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C =	147.8 CY	0 CY	33.9 CY
F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

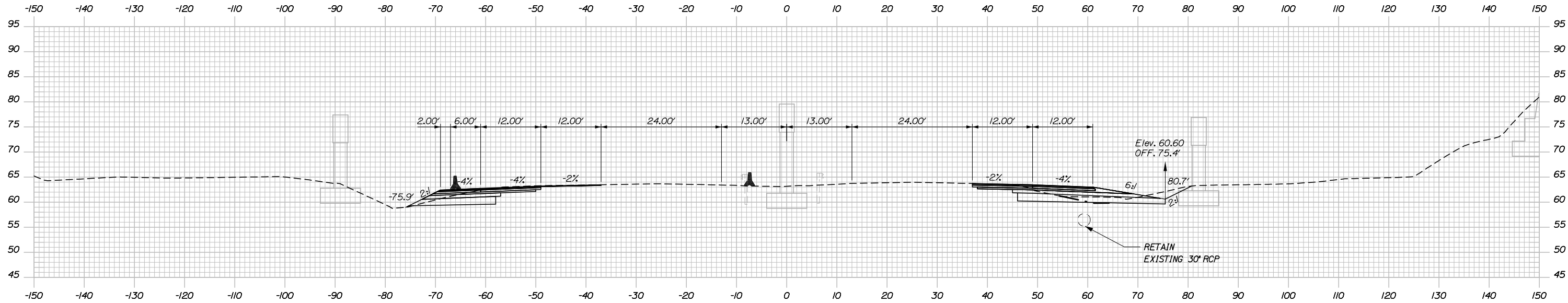
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2223+46 TO STA. c 2223+50

SHEET NUMBER: XS-69
 CONTRACT: 2020.03
 165 OF 310

Filename: PAW1_Cross_Section_69.dgn

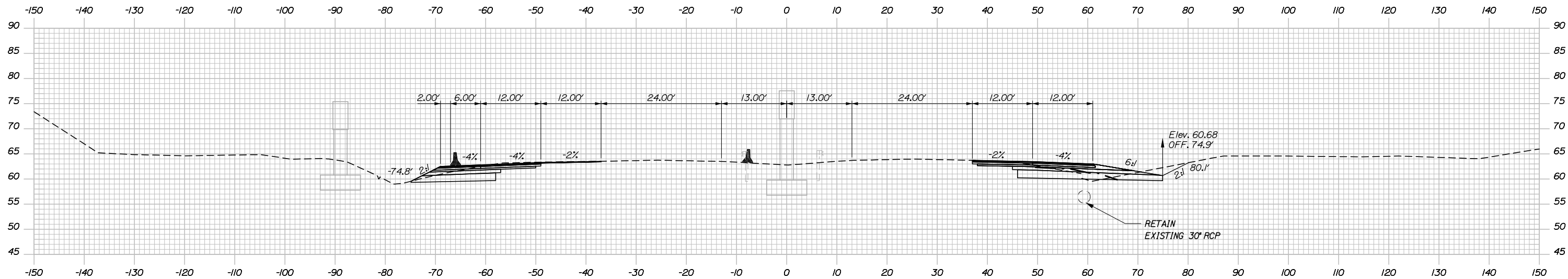
Date: 2/25/2020

	SB	MEDIAN	NB
C	39.8 CY	0 CY	55.7 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

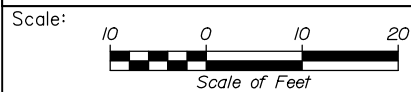


c 2224+00.00

	SB	MEDIAN	NB
C	43.1 CY	0 CY	38.1 CY
F	0 CY	0 CY	1.3 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



c 2223+75.00



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2223+75 TO STA. c 2224+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

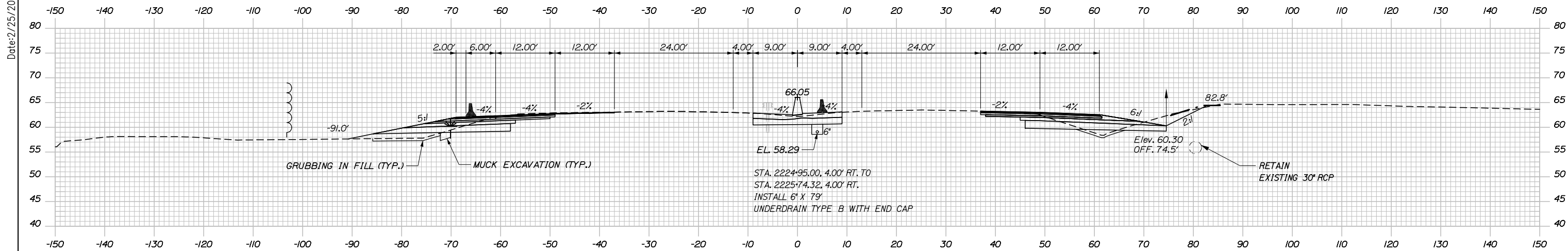
CONTRACT: 2020.03

SHEET NUMBER: XS-70

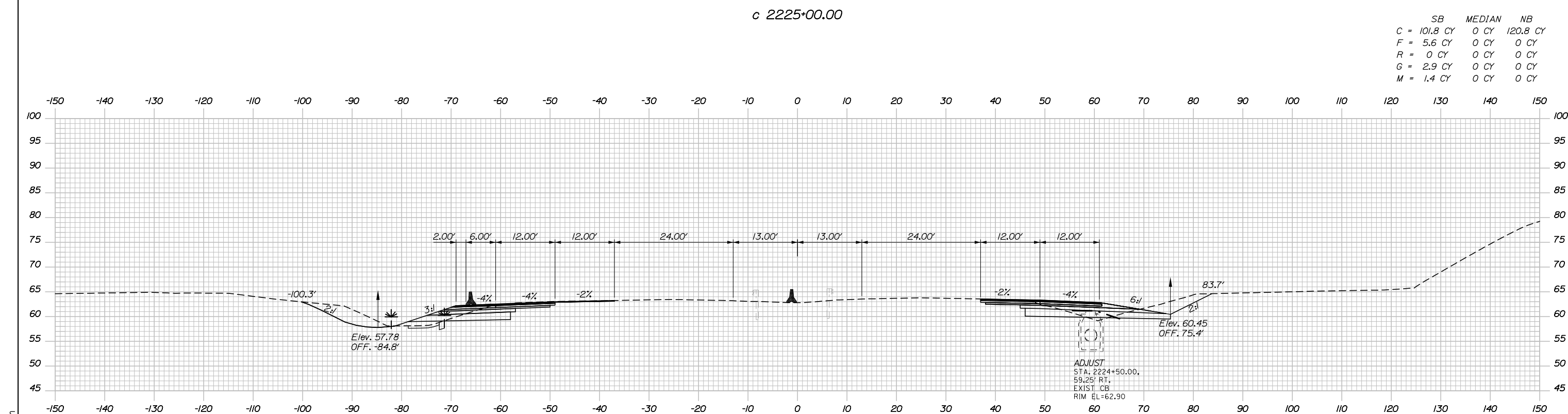
166 OF 310

Filename: PAW1_Cross_Section_70.dgn

Date: 2/25/2020

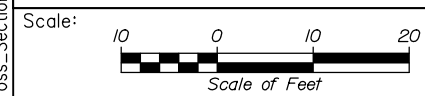


	SB	MEDIAN	NB
C	99.4 CY	37.2 CY	118.1 CY
F	19.1 CY	0 CY	3.5 CY
R	0 CY	0 CY	0 CY
G	9.2 CY	0 CY	3.9 CY
M	3.9 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	101.8 CY	0 CY	120.8 CY
F	5.6 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	2.9 CY	0 CY	0 CY
M	1.4 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_71.dgn



Designed by:

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Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

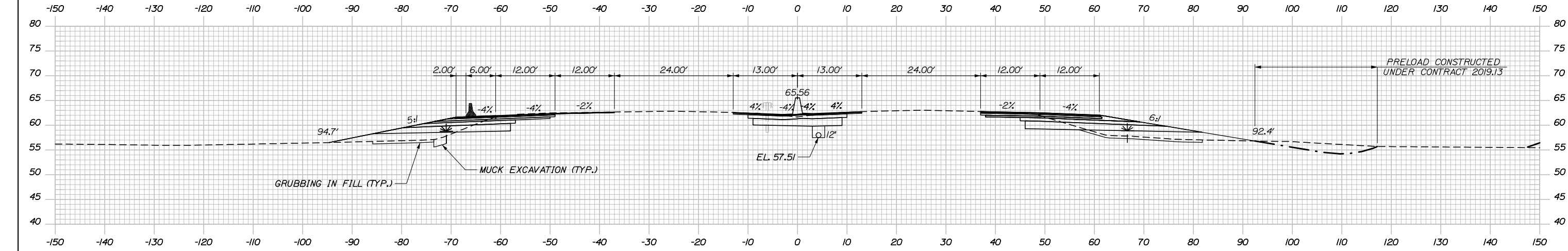
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2224+50 TO STA. c 2225+00

CONTRACT: 2020.03

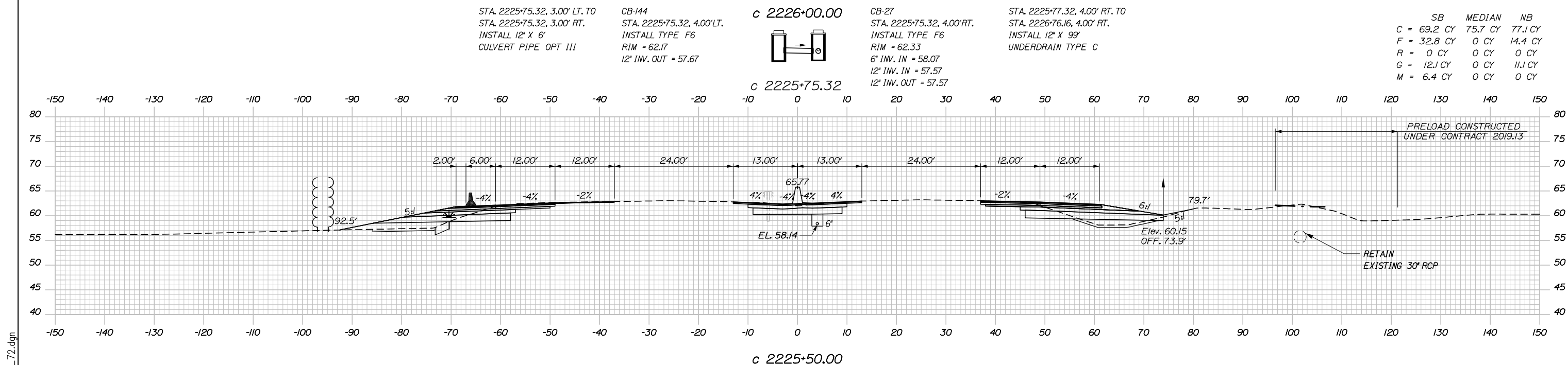
SHEET NUMBER: XS-71

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Date: 2/25/2020



	SB	MEDIAN	NB
C	64.2 CY	76.1 CY	55.9 CY
F	46.0 CY	0 CY	43.7 CY
R	0 CY	0 CY	0 CY
G	11.6 CY	0 CY	18.3 CY
M	7.4 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	69.2 CY	75.7 CY	77.1 CY
F	32.8 CY	0 CY	14.4 CY
R	0 CY	0 CY	0 CY
G	12.1 CY	0 CY	11.1 CY
M	6.4 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

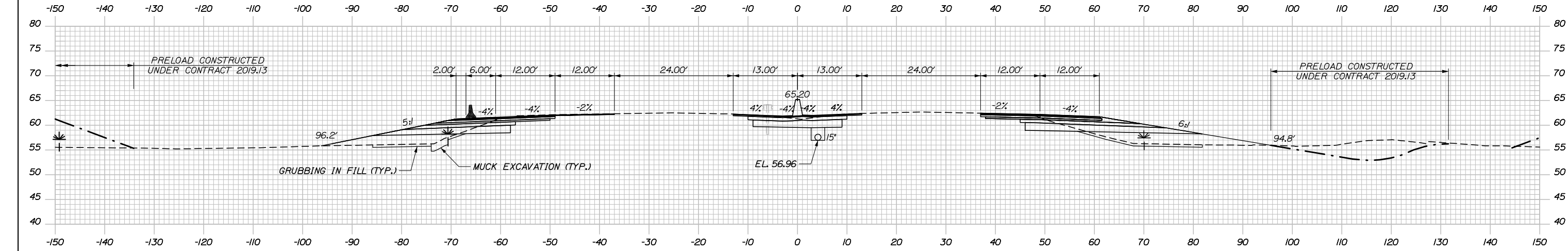
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2225+50 TO STA. c 2226+00

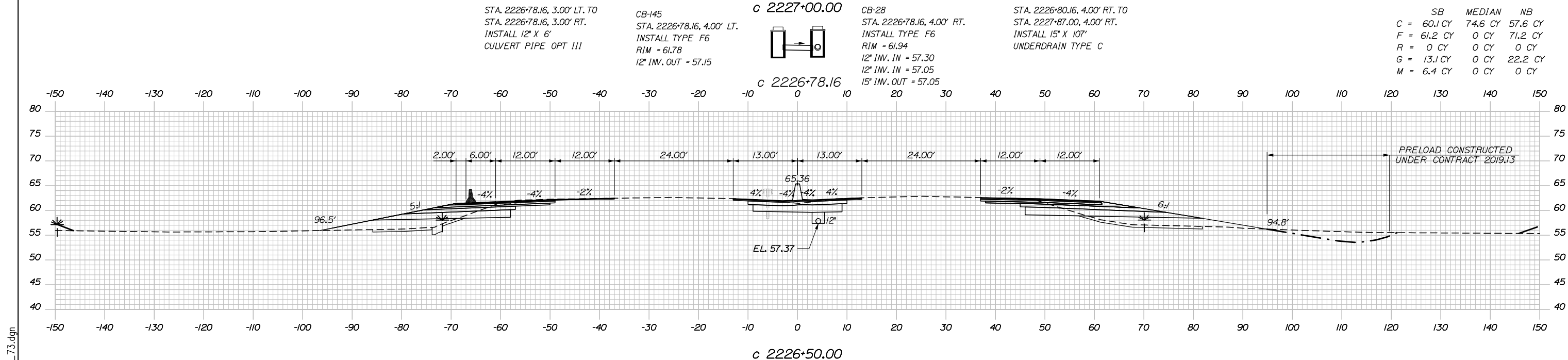
SHEET NUMBER: XS-72
 CONTRACT: 2020.03
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Filename: PAW1_Cross_Section_72.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	58.1 CY	73.2 CY	56.2 CY
F	69.3 CY	0 CY	90.8 CY
R	0 CY	0 CY	0 CY
G	14.1 CY	0 CY	22.3 CY
M	7.6 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	60.1 CY	74.6 CY	57.6 CY
F	61.2 CY	0 CY	71.2 CY
R	0 CY	0 CY	0 CY
G	13.1 CY	0 CY	22.2 CY
M	6.4 CY	0 CY	0 CY

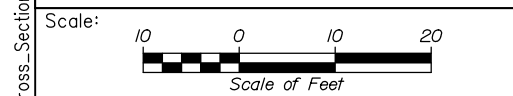
STA. 2226+78.16, 3.00' LT. TO
 STA. 2226+78.16, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

CB-145
 STA. 2226+78.16, 4.00' LT.
 INSTALL TYPE F6
 RIM = 61.78
 12" INV. OUT = 57.15

c 2227+00.00

CB-28
 STA. 2226+78.16, 4.00' RT.
 INSTALL TYPE F6
 RIM = 61.94
 12" INV. IN = 57.30
 12" INV. IN = 57.05
 15" INV. OUT = 57.05

STA. 2226+80.16, 4.00' RT. TO
 STA. 2227+87.00, 4.00' RT.
 INSTALL 15" X 10"
 UNDERDRAIN TYPE C



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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2226+50 TO STA. c 2227+00

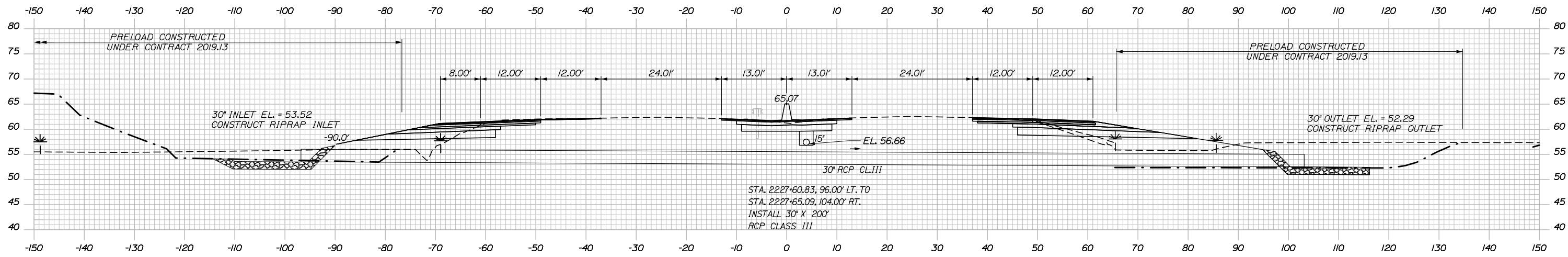
SHEET NUMBER: XS-73

CONTRACT: 2020.03

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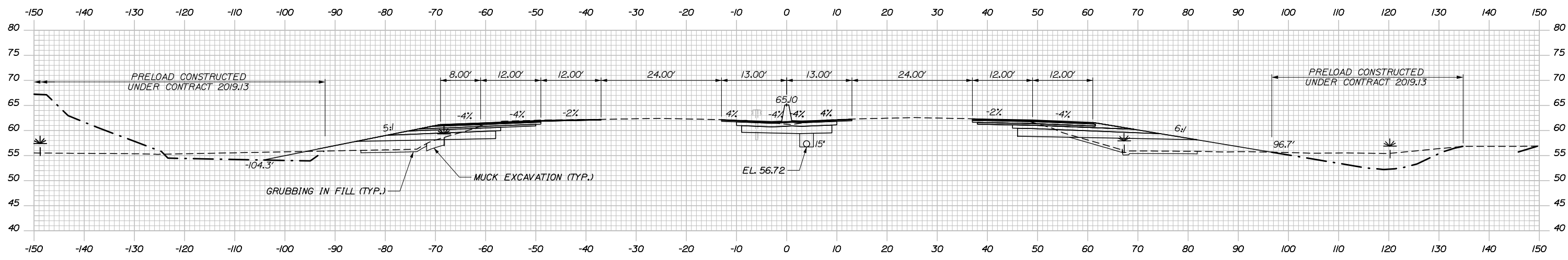
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Date: 2/25/2020



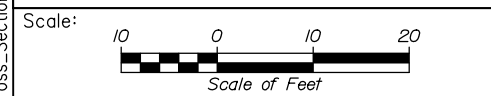
c 2227+62.48 (SKEWED)

	SB	MEDIAN	NB
C	58.6 CY	73.5 CY	56.0 CY
F	74.4 CY	0 CY	111.5 CY
R	0 CY	0 CY	0 CY
G	12.8 CY	0 CY	22.6 CY
M	9.3 CY	0 CY	0 CY



c 2227+50.00

Filename: PAW1_Cross_Section_74.dgn



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MAINE TURNPIKE

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2227+50 TO STA. c 2227+62

SHEET NUMBER: XS-74

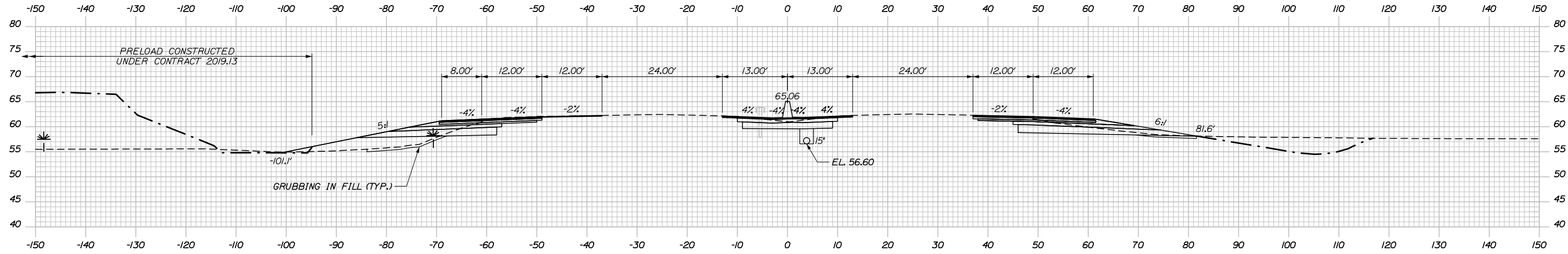
CONTRACT: 2020.03

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Date: 2/25/2020

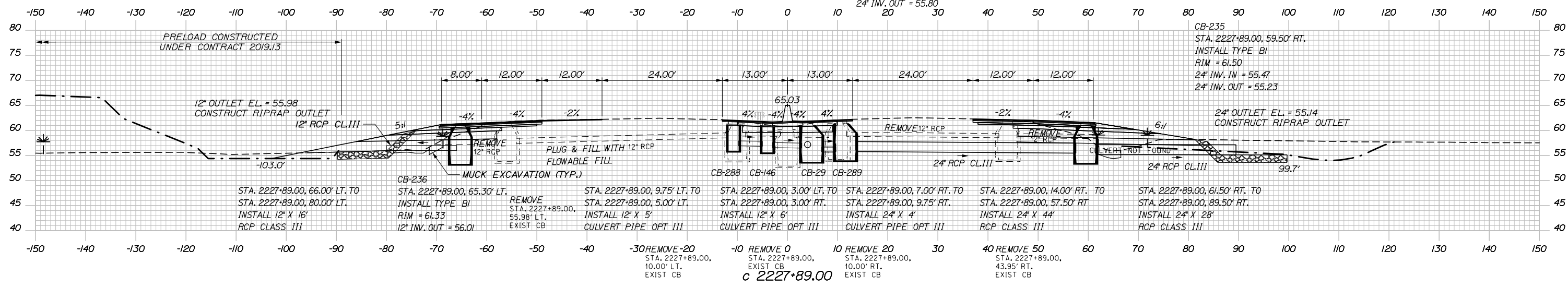
Filename: PAW1_Cross_Section_75.dgn

	SB	MEDIAN	NB
C	13.1 CY	14.4 CY	43.5 CY
F	18.3 CY	0 CY	3.6 CY
R	0 CY	0 CY	0 CY
G	2.3 CY	0 CY	0.8 CY
M	0.8 CY	0 CY	1.4 CY



Station	Notes
CB-288 STA. 2227+89.00, 10.75' LT. INSTALL TYPE F6 RIM = 61.93 12" INV. IN = 56.93 12" INV. OUT = 56.93	CB-146 STA. 2227+89.00, 4.00' LT. INSTALL TYPE F6 RIM = 61.62 12" INV. IN = 56.83 12" INV. OUT = 56.58
c 2228+00.00	
STA. 2227+91.00, 4.00' RT. TO STA. 2228+48.00, 4.00' RT. INSTALL 15" X 5" UNDERDRAIN TYPE C	CB-29 STA. 2227+89.00, 4.00' RT. INSTALL TYPE B5 WITH 2' CONE RIM = 61.72 15" INV. IN = 56.55 15" INV. IN = 56.55 12" INV. IN = 56.48 24" INV. OUT = 55.80
	CB-289 STA. 2227+89.00, 10.75' RT. INSTALL TYPE B5 WITH 2' CONE RIM = 62.01 24" INV. IN = 55.70 24" INV. OUT = 55.70

	SB	MEDIAN	NB
C	45.8 CY	53.2 CY	139.7 CY
F	65.2 CY	0 CY	58.8 CY
R	0 CY	0 CY	0 CY
G	7.2 CY	0 CY	8.9 CY
M	6.5 CY	0 CY	4.9 CY




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Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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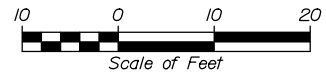
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2227+89 TO STA. c 2228+00

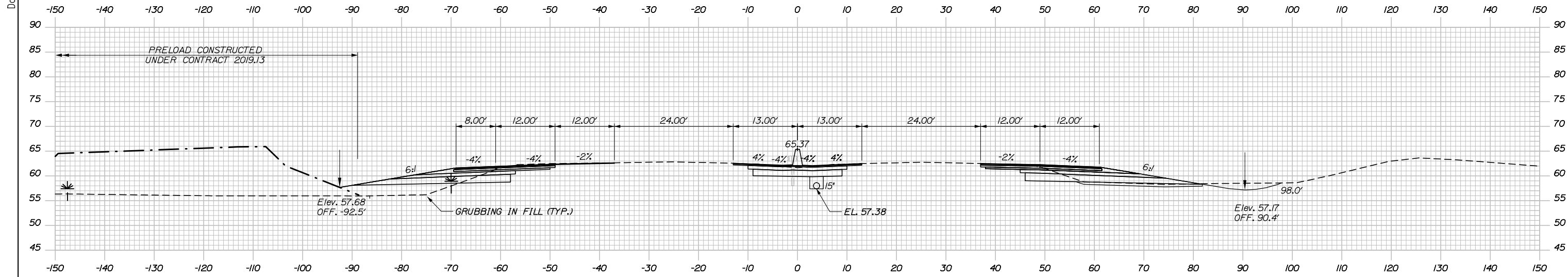
SHEET NUMBER: XS-75
171 OF 310

CONTRACT: 2020.03

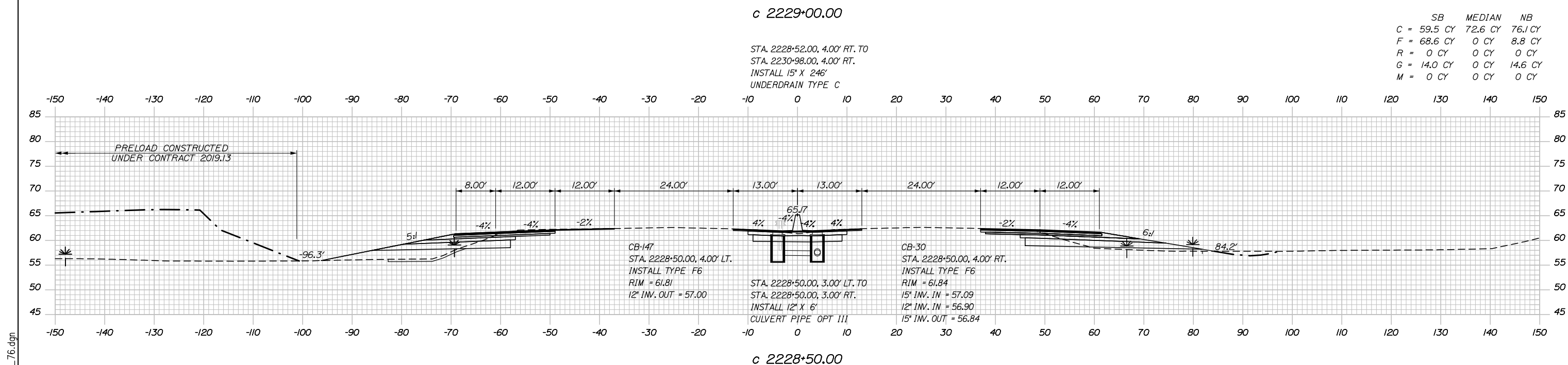
Scale: 

No.	Revision	By	Date

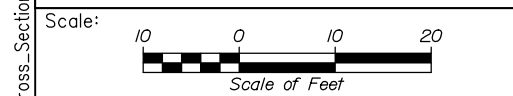
Date: 2/25/2020



	SB	MEDIAN	NB
C	57.9 CY	77.1 CY	70.0 CY
F	66.1 CY	0 CY	10.5 CY
R	0 CY	0 CY	0 CY
G	15.6 CY	0 CY	22.2 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	59.5 CY	72.6 CY	76.1 CY
F	68.6 CY	0 CY	8.8 CY
R	0 CY	0 CY	0 CY
G	14.0 CY	0 CY	14.6 CY
M	0 CY	0 CY	0 CY



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No.	Revision	By	Date

By	Date	By	Date
Designed JS	2/20	Checked TRS	2/20
Drawn GW	2/20	In Charge of RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2228+50 TO STA. c 2229+00

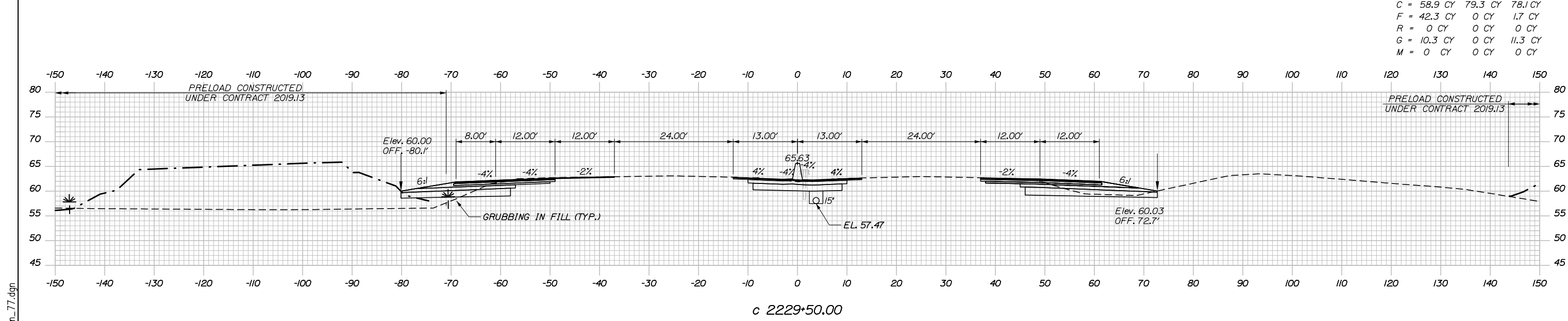
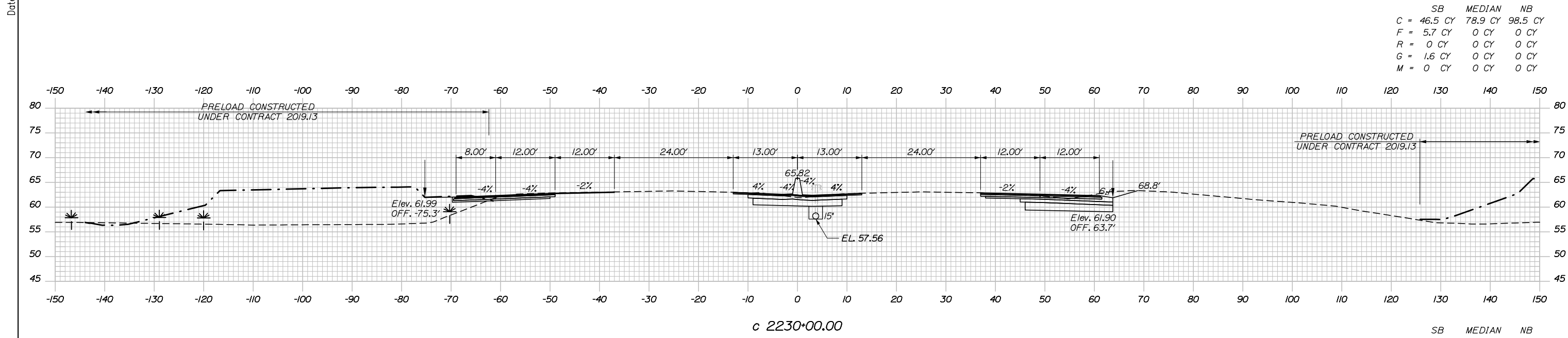
SHEET NUMBER: XS-76

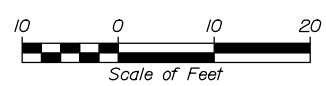
CONTRACT: 2020.03

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Filename: PAW1_Cross_Section_76.dgn

Date: 2/25/2020



Scale:  Scale of Feet

No.	Revision	By	Date

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Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

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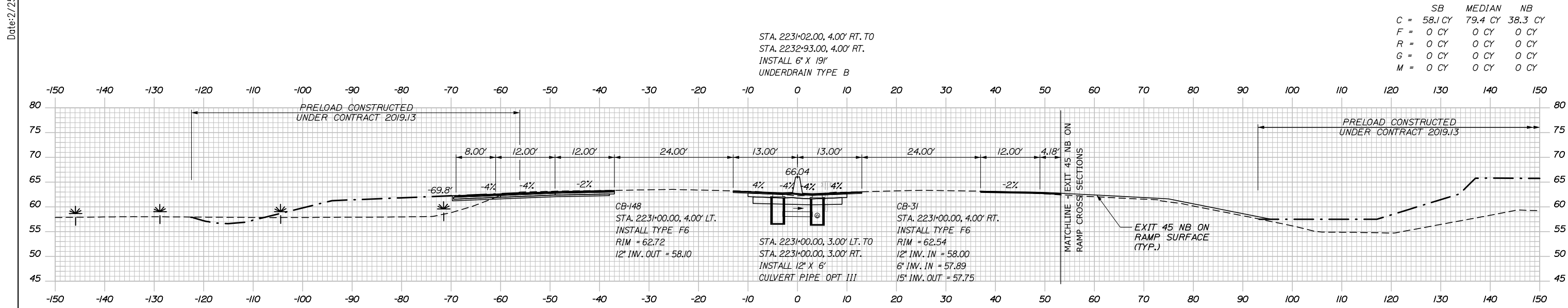
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2229+50 TO STA. c 2230+00

SHEET NUMBER: XS-77
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CONTRACT: 2020.03

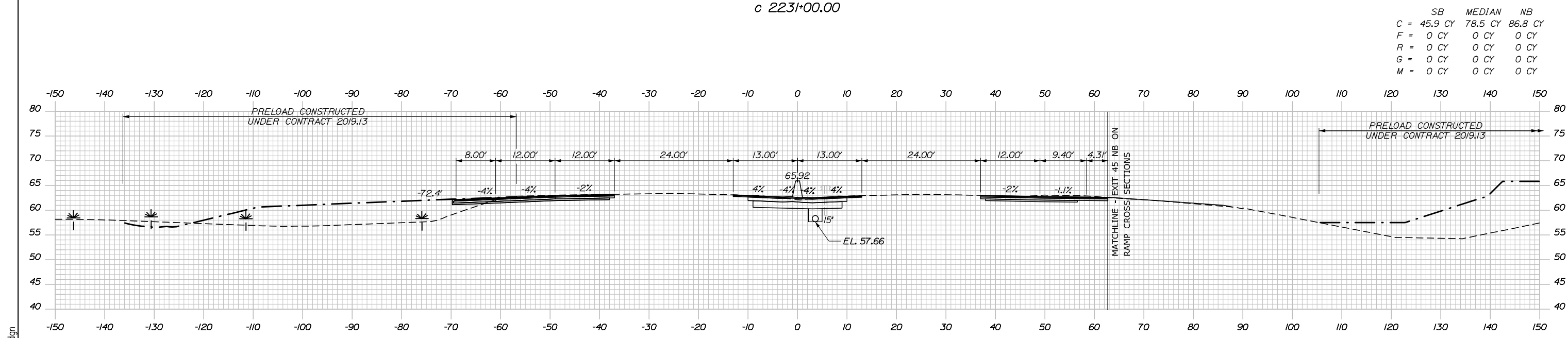
Filename: PAW1_Cross_Section_77.dgn

Date: 2/25/2020



c 2231+00.00

	SB	MEDIAN	NB
C	58.1 CY	79.4 CY	38.3 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



c 2230+50.00

	SB	MEDIAN	NB
C	45.9 CY	78.5 CY	86.8 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_78.dgn



Designed by:



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Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

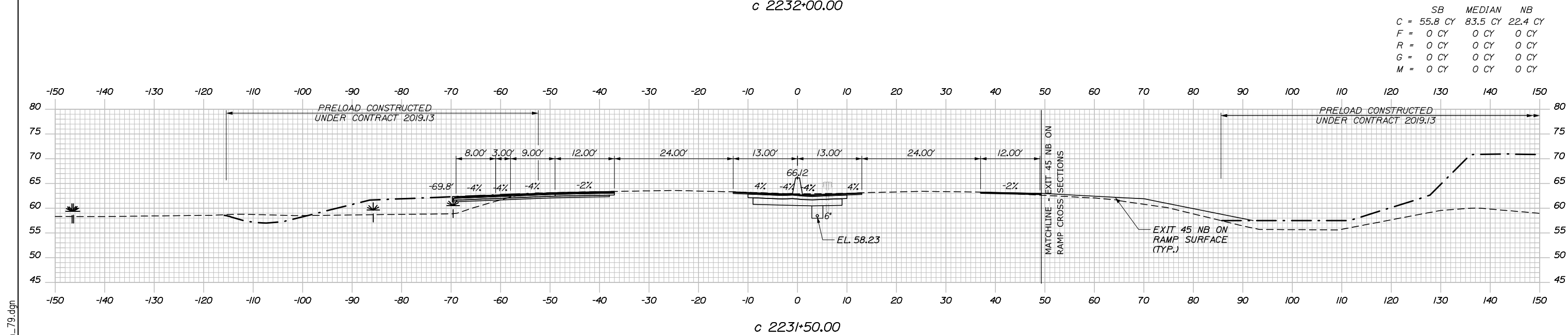
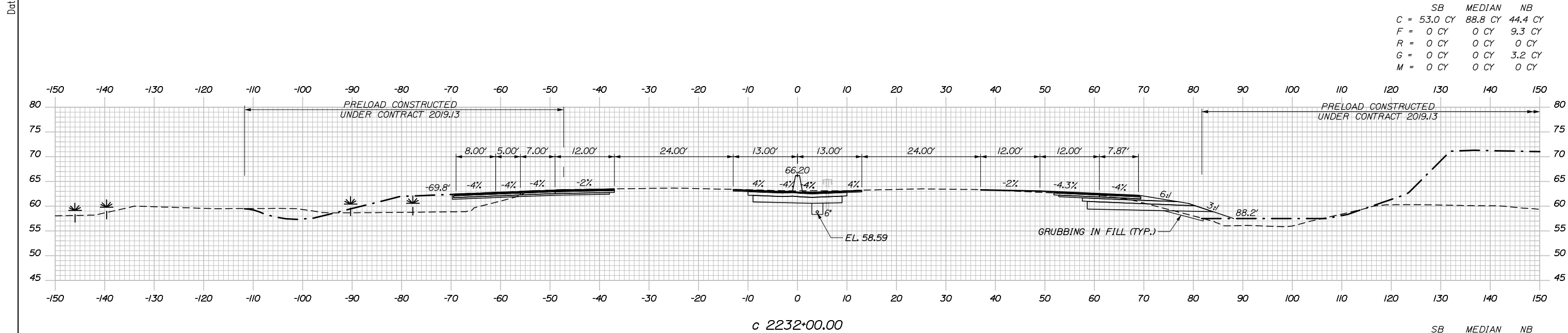
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2230+50 TO STA. c 2231+00

CONTRACT: 2020.03

SHEET NUMBER: XS-78

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Date: 2/25/2020



Filename: PAW1_Cross_Section_79.dgn



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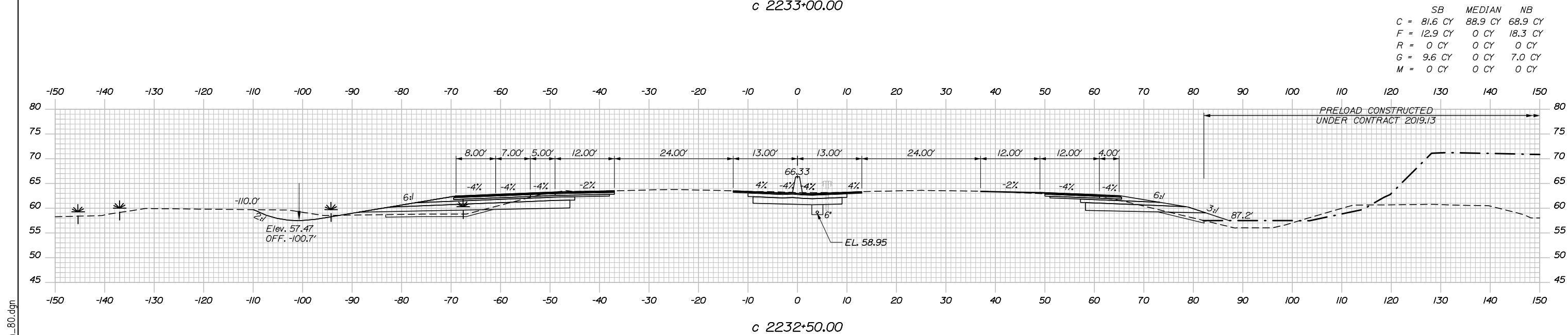
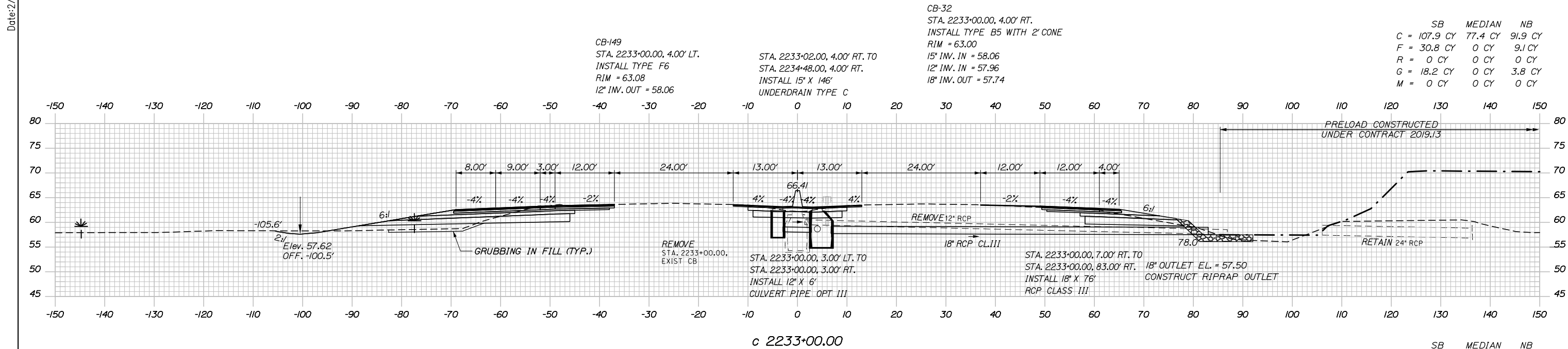
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2231+50 TO STA. c 2232+00

SHEET NUMBER: XS-79
CONTRACT: 2020.03
175 OF 310

Date: 2/25/2020



Scale: 1" = 20'

No.	Revision	By	Date

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Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

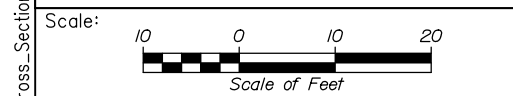
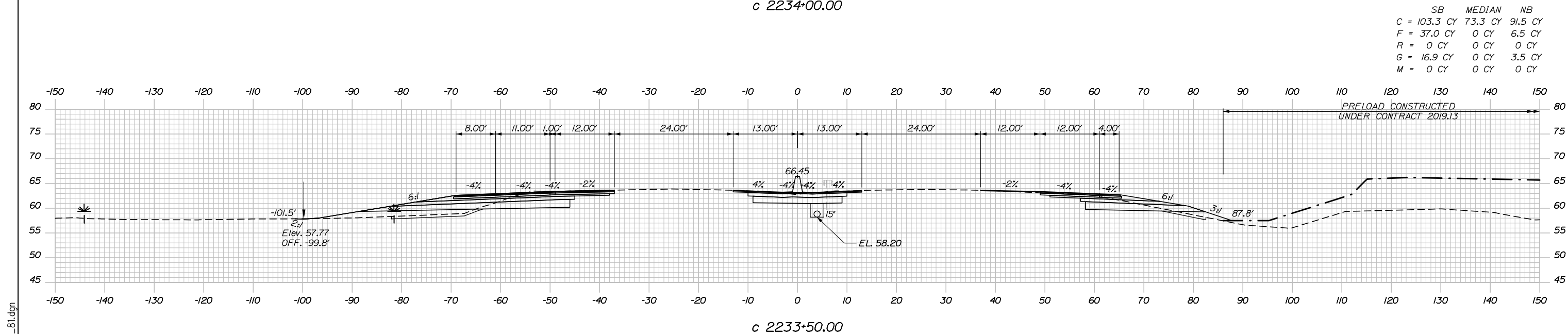
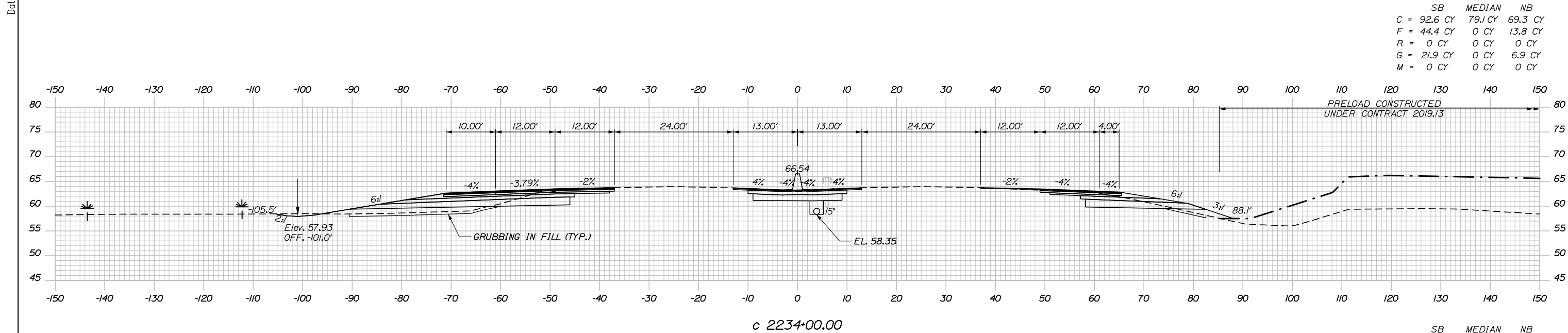
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2232+50 TO STA. c 2233+00

SHEET NUMBER: XS-80
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CONTRACT: 2020.03

Filename: PAW1_Cross_Section_80.dgn

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	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
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 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2233+50 TO STA. c 2234+00

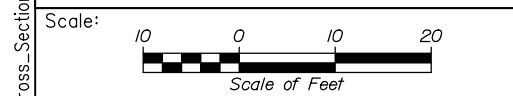
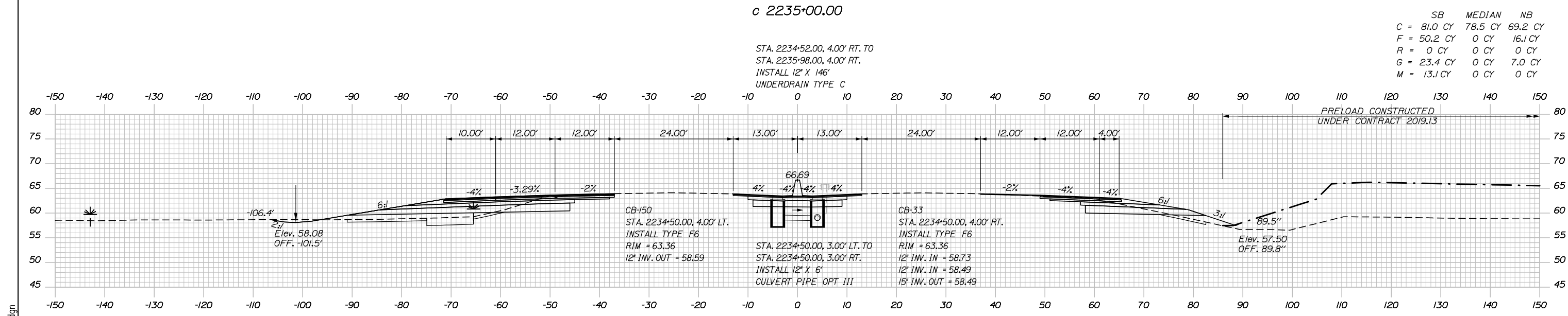
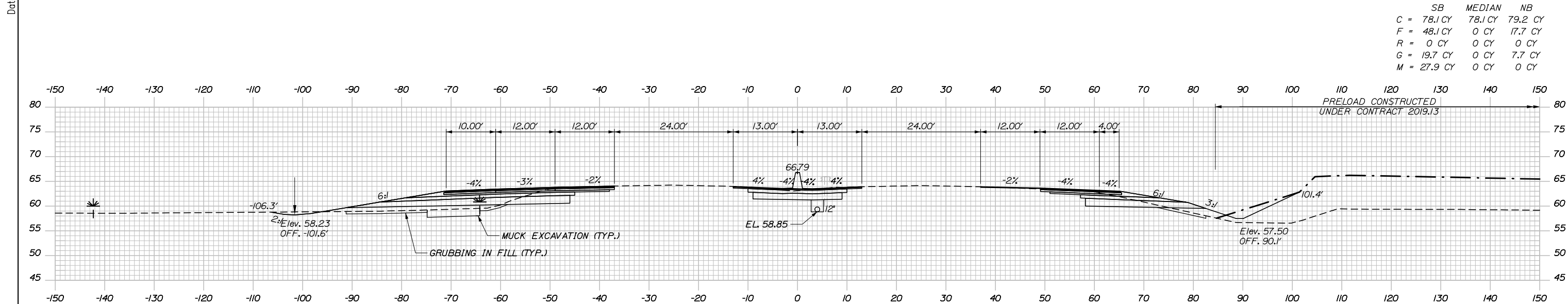
SHEET NUMBER: XS-81

CONTRACT: 2020.03

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Filename: PAW1_Cross_Section_81.dgn

Date: 2/25/2020



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No.	Revision	By	Date

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Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

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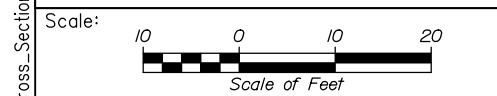
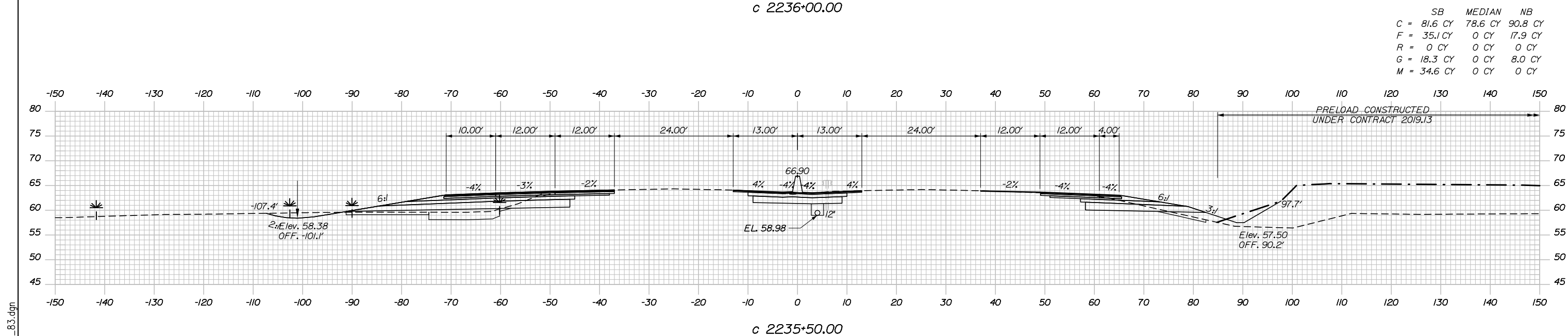
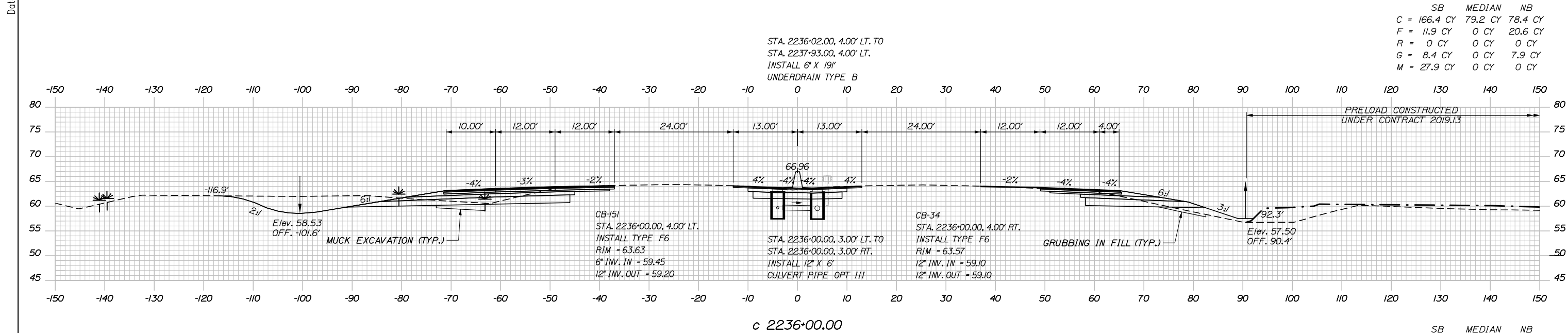
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2234+50 TO STA. c 2235+00

SHEET NUMBER: XS-82
 CONTRACT: 2020.03
 178 OF 310

Filename: PAW1_Cross_Section_82.dgn

Date: 2/25/2020



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

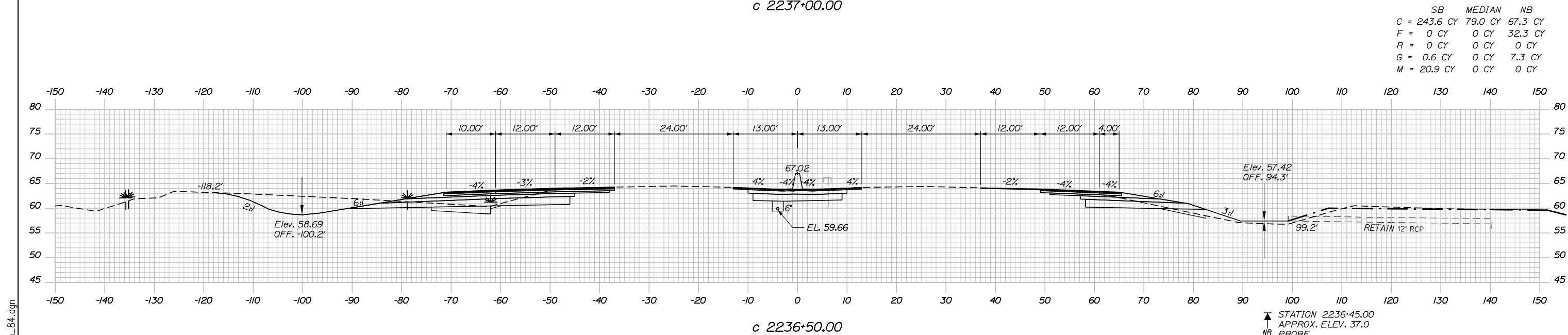
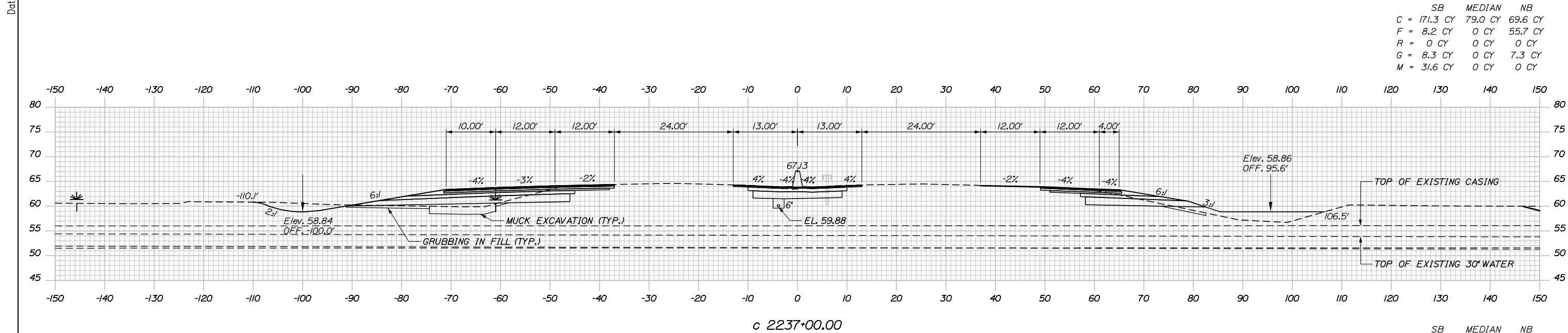
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2235+50 TO STA. c 2236+00

SHEET NUMBER: XS-83
 179 OF 310

CONTRACT: 2020.03

Filename: PAW1_Cross_Section_83.dgn

Date: 2/25/2020



STATION 2236+45.00
 APPROX. ELEV. 37.0
 NR PROBE

Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2236+50 TO STA. c 2237+00

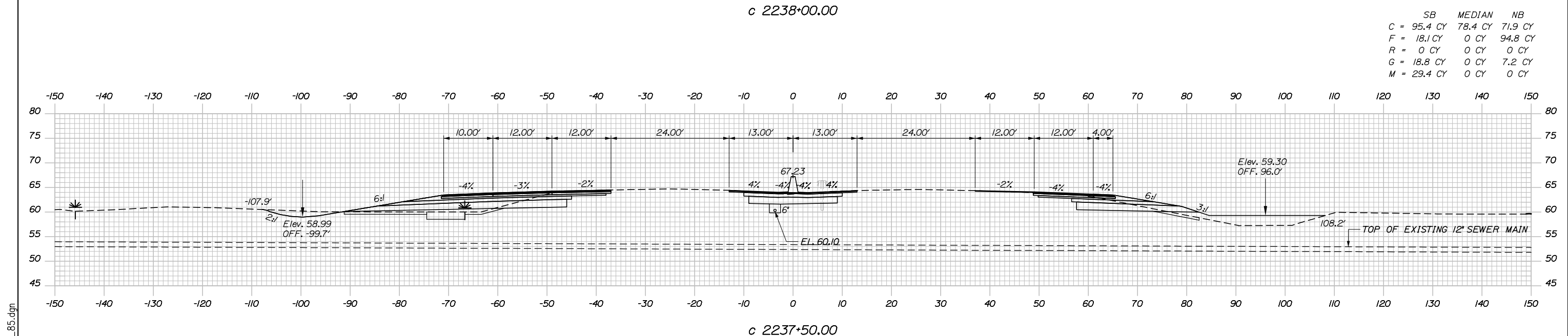
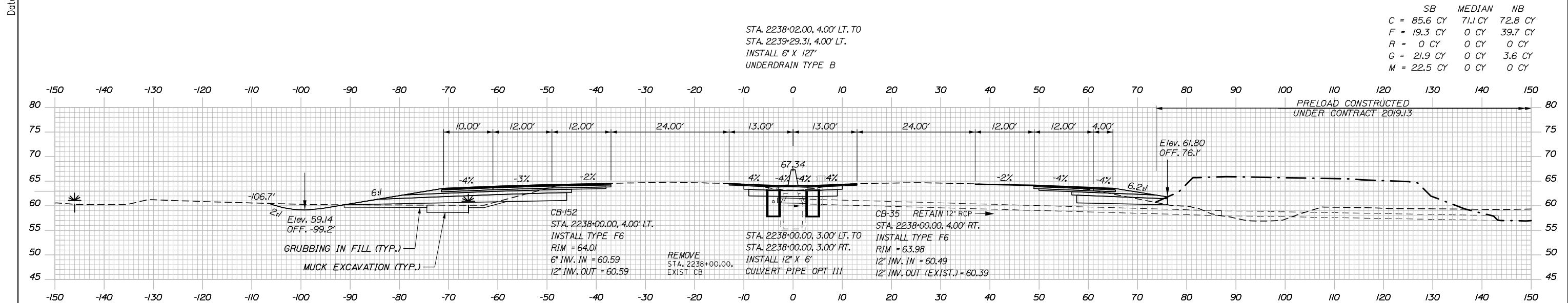
SHEET NUMBER: XS-84

CONTRACT: 2020.03

180 OF 310

Filename: PAW1_Cross_Section_84.dgn

Date: 2/25/2020



Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2237+50 TO STA. c 2238+00

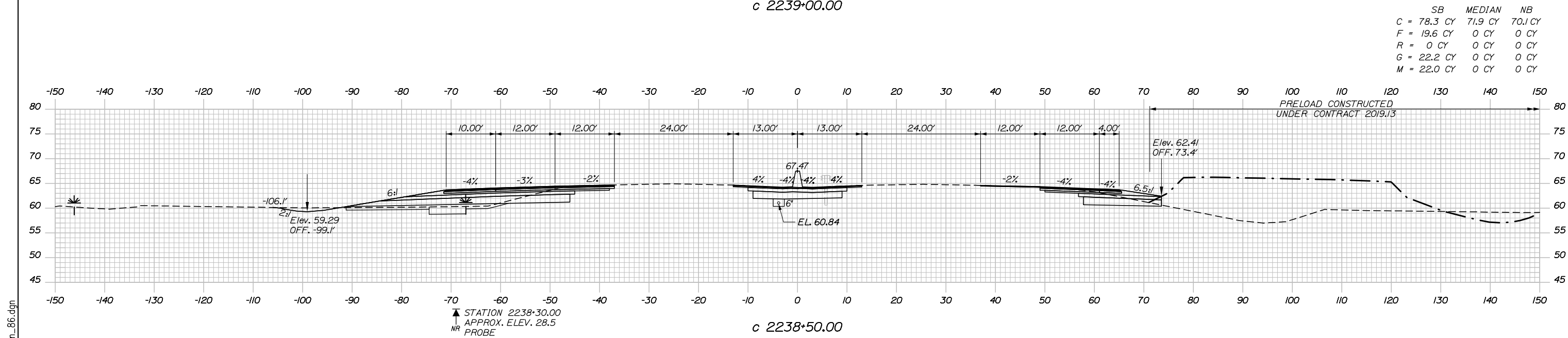
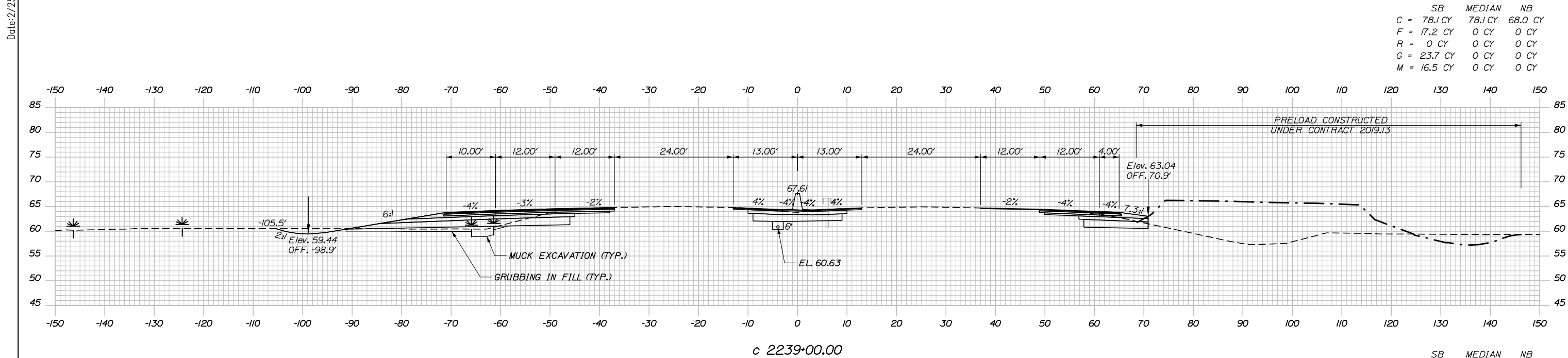
SHEET NUMBER: XS-85

CONTRACT: 2020.03

181 OF 310

Filename: PAW1_Cross_Section_85.dgn

Date: 2/25/2020



Scale: 10 0 10 20
Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

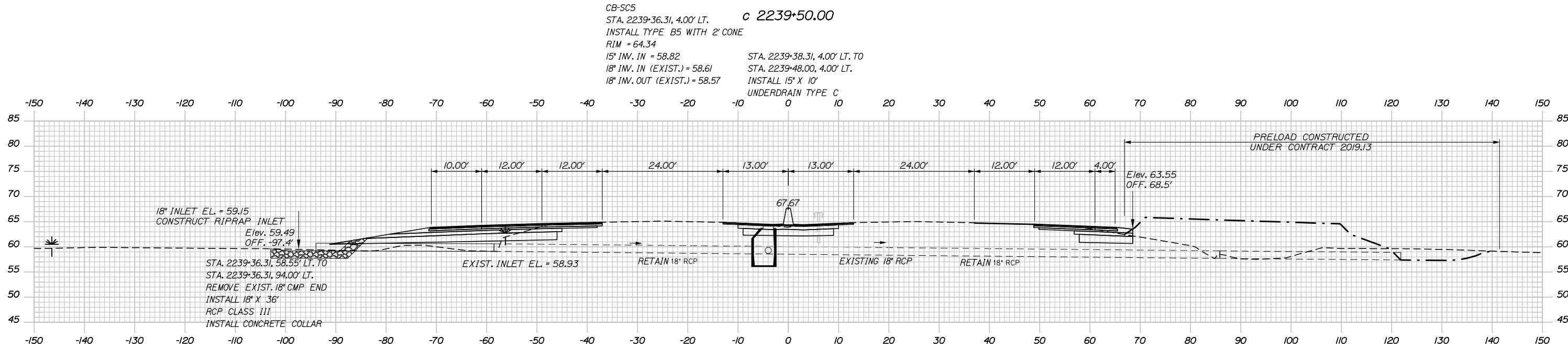
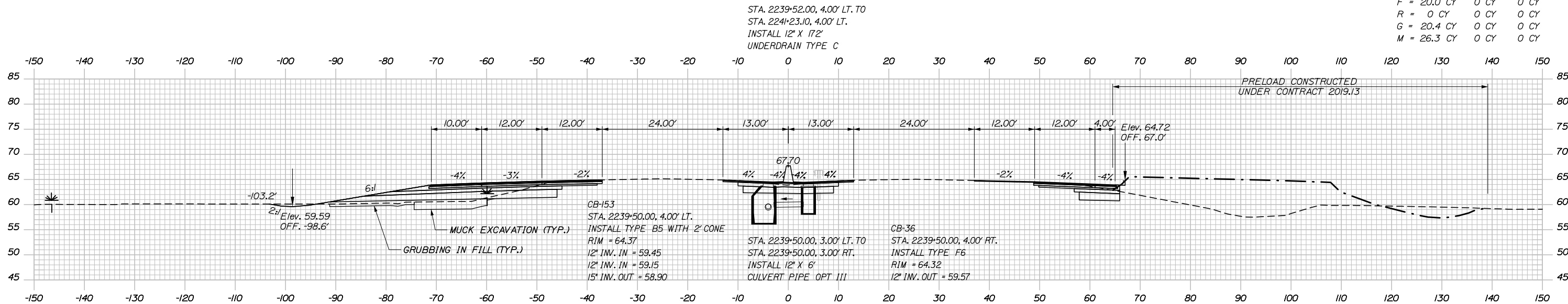
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2238+50 TO STA. c 2239+00

SHEET NUMBER: XS-86
CONTRACT: 2020.03
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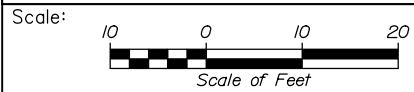
Filename: PAW1_Cross_Section_86.dgn

Date: 2/25/2020

	SB	MEDIAN	NB
C	74.5 CY	75.4 CY	62.4 CY
F	20.0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	20.4 CY	0 CY	0 CY
M	26.3 CY	0 CY	0 CY



Filename: PAW1_Cross_Section_87.dgn



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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2239+36 TO STA. c 2239+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

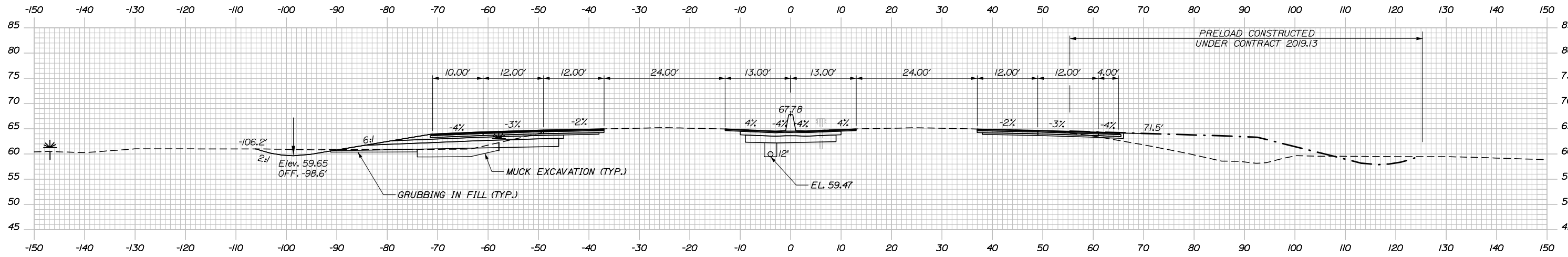
SHEET NUMBER: XS-87

183 OF 310

Date: 2/25/2020

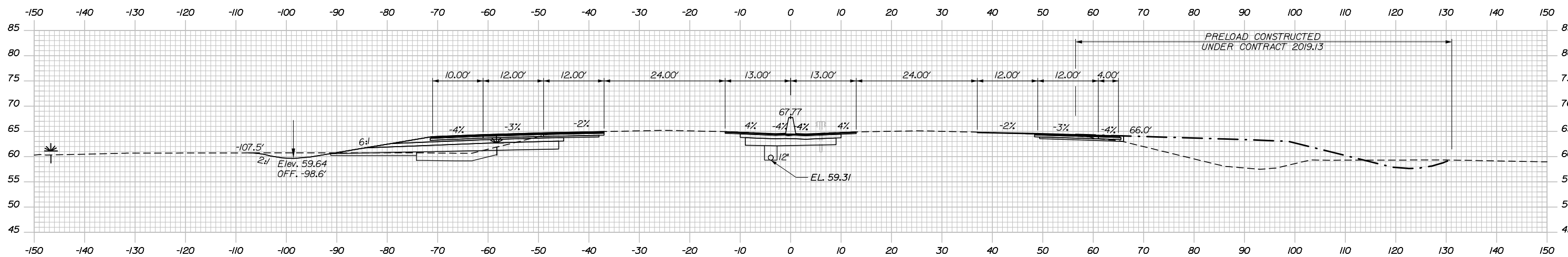
Filename: PAW1_Cross_Section_88.dgn

	SB	MEDIAN	NB
C	88.1 CY	80.3 CY	42.4 CY
F	6.0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	13.5 CY	0 CY	0 CY
M	41.7 CY	0 CY	0 CY

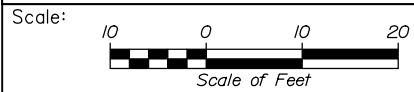


c 2240+50.00

	SB	MEDIAN	NB
C	75.5 CY	77.3 CY	44.2 CY
F	17.8 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	15.4 CY	0 CY	0 CY
M	41.9 CY	0 CY	0 CY



c 2240+00.00



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THE GOLD STAR
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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2240+00 TO STA. c 2240+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

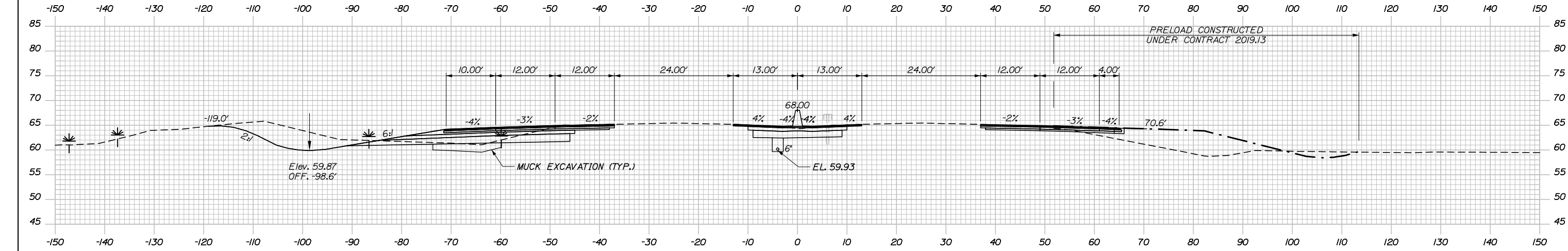
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-88

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Date: 2/25/2020



	SB	MEDIAN	NB
C	177.1 CY	77.0 CY	50.2 CY
F	1.3 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	3.1 CY	0 CY	0 CY
M	36.8 CY	0 CY	0 CY

STA. 224+25.10, 3.00' LT. TO
STA. 224+25.10, 3.00' RT.
INSTALL 12" X 6'
CULVERT PIPE OPT III

CB-154
STA. 224+25.10, 4.00' LT.
INSTALL TYPE F6
RIM = 64.59
6" INV. IN = 59.71
12" INV. IN = 59.71
12" INV. OUT = 59.71

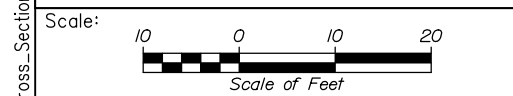
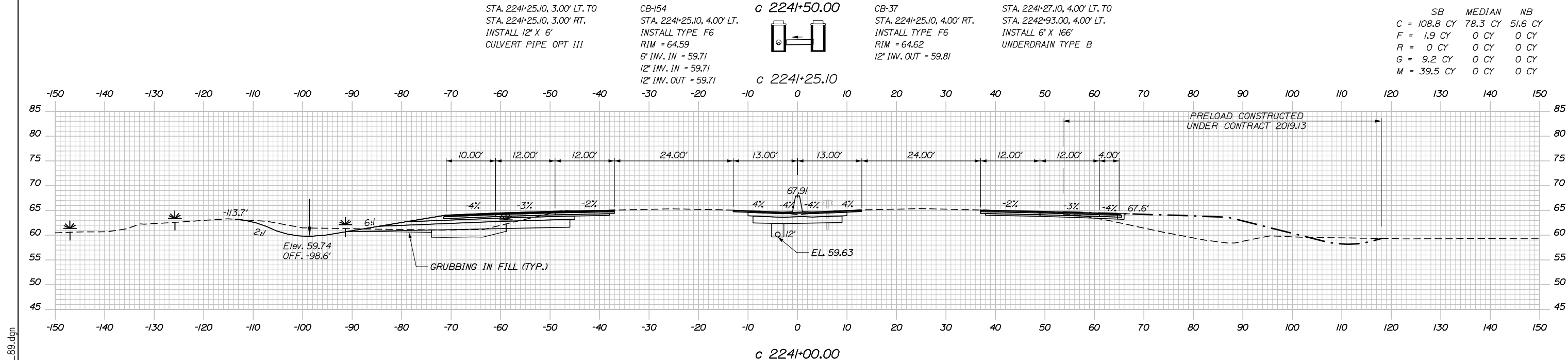
c 224+50.00

c 224+25.10

CB-37
STA. 224+25.10, 4.00' RT.
INSTALL TYPE F6
RIM = 64.62
12" INV. OUT = 59.81

STA. 224+27.10, 4.00' LT. TO
STA. 224+93.00, 4.00' LT.
INSTALL 6" X 166'
UNDERDRAIN TYPE B

	SB	MEDIAN	NB
C	108.8 CY	78.3 CY	51.6 CY
F	1.9 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	9.2 CY	0 CY	0 CY
M	39.5 CY	0 CY	0 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

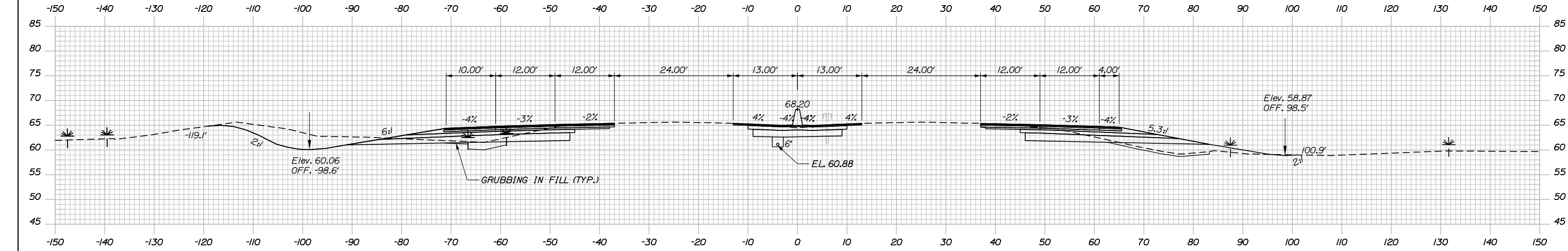
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2241+00 TO STA. c 2241+50

SHEET NUMBER: XS-89
CONTRACT: 2020.03
185 OF 310

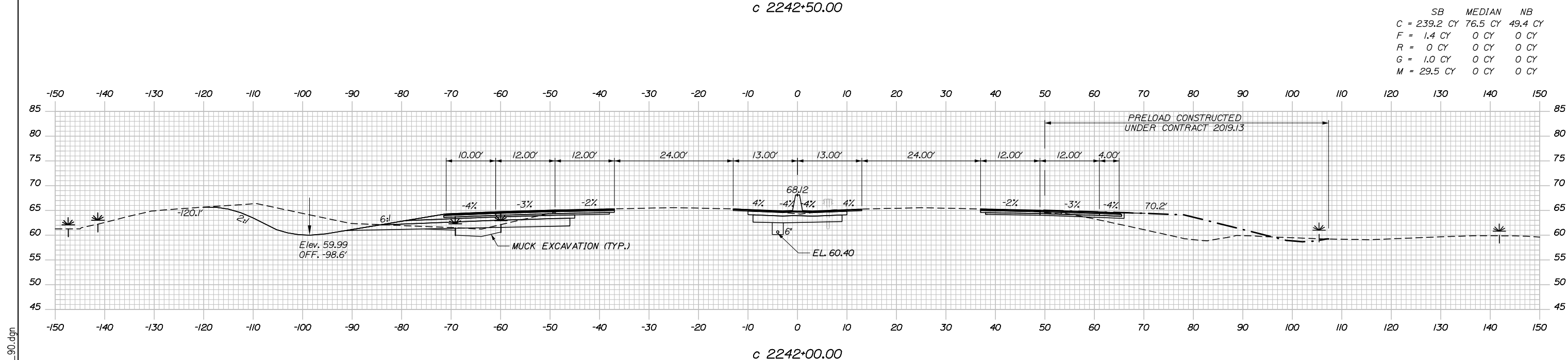
Filename: PAW1_Cross_Section_89.dgn

Date: 2/25/2020



c 2242+50.00

	SB	MEDIAN	NB
C	236.4 CY	76.1 CY	64.2 CY
F	0.6 CY	0 CY	30.7 CY
R	0 CY	0 CY	0 CY
G	1.8 CY	0 CY	9.0 CY
M	20.8 CY	0 CY	0 CY



c 2242+00.00

	SB	MEDIAN	NB
C	239.2 CY	76.5 CY	49.4 CY
F	1.4 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	1.0 CY	0 CY	0 CY
M	29.5 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2242+00 TO STA. c 2242+50

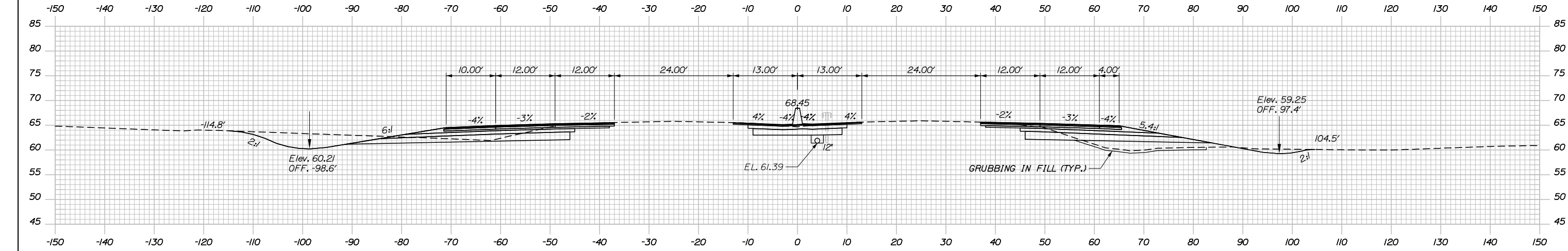
SHEET NUMBER: XS-90

CONTRACT: 2020.03

186 OF 310

Filename: PAW1_Cross_Section_90.dgn

Date: 2/25/2020

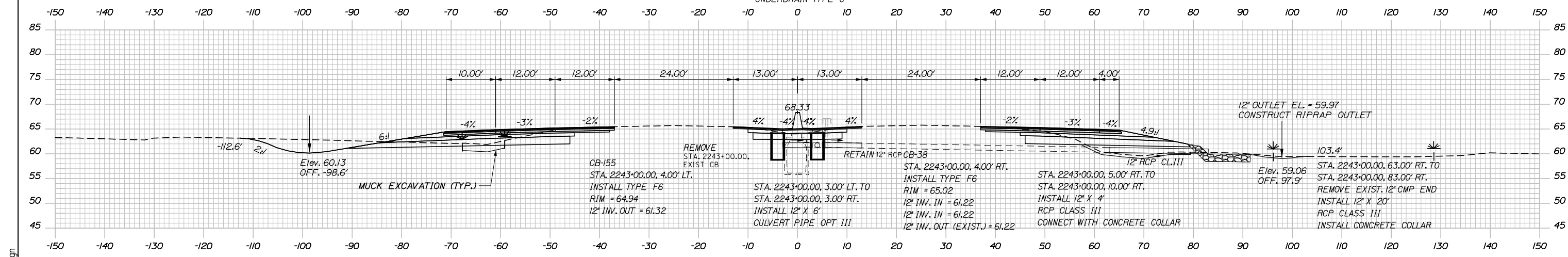


	SB	MEDIAN	NB
C	186.3 CY	69.5 CY	81.9 CY
F	52.5 CY	0 CY	59.0 CY
R	59.9 CY	0 CY	0 CY
G	0 CY	0 CY	20.6 CY
M	8.1 CY	0 CY	0 CY

c 2243+50.00

STA. 2243+02.00, 4.00' RT. TO
 STA. 2244+98.00, 4.00' RT.
 INSTALL 12" X 196'
 UNDERDRAIN TYPE C

	SB	MEDIAN	NB
C	206.5 CY	69.8 CY	87.8 CY
F	0 CY	0 CY	59.0 CY
R	0 CY	0 CY	0 CY
G	0.7 CY	0 CY	17.7 CY
M	17.0 CY	0 CY	0 CY



c 2243+00.00

STATION 2243+05.00
 APPROX. ELEV. 36.8
 PROBE

Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

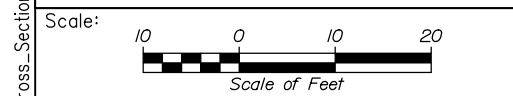
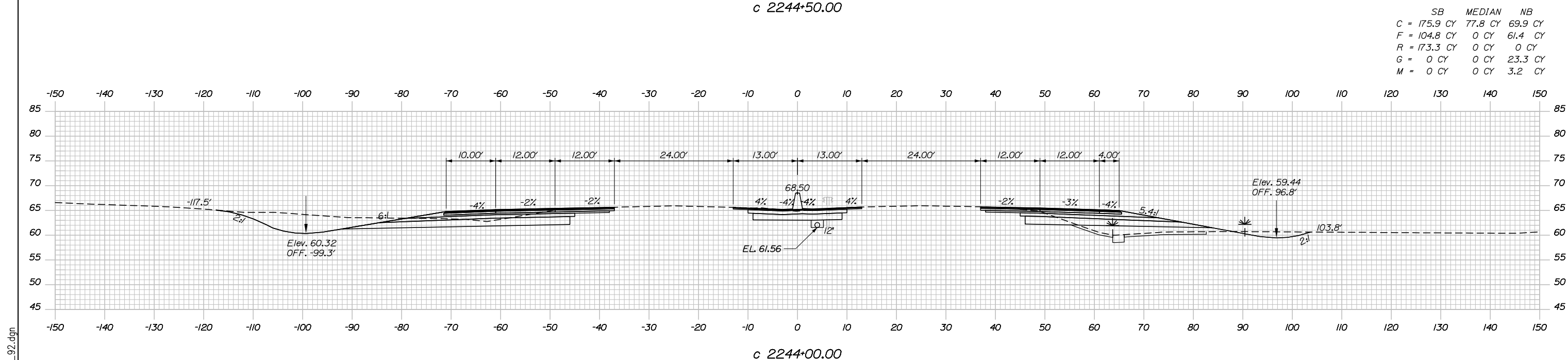
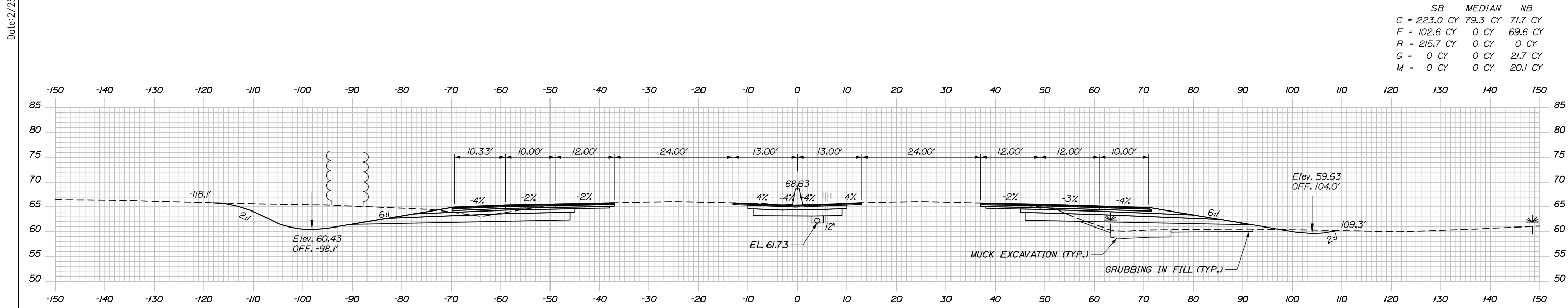
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2243+00 TO STA. c 2243+50

SHEET NUMBER: XS-91
 CONTRACT: 2020.03
 187 OF 310

Filename: PAW1_Cross_Section_91.dgn

Date: 2/25/2020



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2244+00 TO STA. c 2244+50

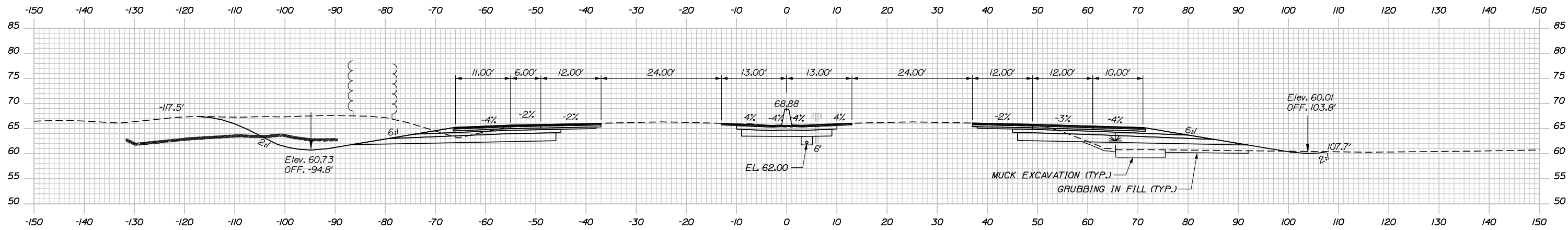
SHEET NUMBER: XS-92
CONTRACT: 2020.03
188 OF 310

Filename: PAW1_Cross_Section_92.dgn

Date: 2/25/2020

Filename: PAW1_Cross_Section_93.dgn

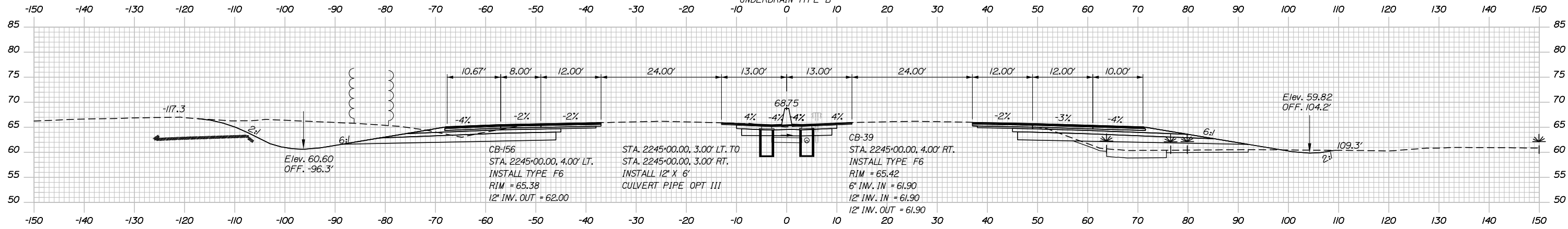
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C	307.7 CY	90.1 CY	71.0 CY
F	122.1 CY	21.0 CY	83.7 CY
R	272.6 CY	10.2 CY	0 CY
G	0 CY	0 CY	20.7 CY
M	0 CY	0 CY	30.4 CY



c 2245+50.00

STA. 2245+02.00, 4.00' RT. TO
 STA. 2246+93.00, 4.00' RT.
 INSTALL 6" X 19"
 UNDERDRAIN TYPE B

	SB	MEDIAN	NB
C	248.1 CY	78.6 CY	68.9 CY
F	107.3 CY	0 CY	83.5 CY
R	258.5 CY	0 CY	0 CY
G	0 CY	0 CY	20.6 CY
M	0 CY	0 CY	33.4 CY

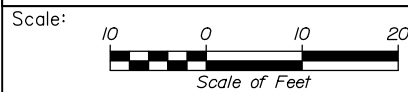


c 2245+00.00

CB-156
 STA. 2245+00.00, 4.00' LT.
 INSTALL TYPE F6
 RIM = 65.38
 12" INV. OUT = 62.00

STA. 2245+00.00, 3.00' LT. TO
 STA. 2245+00.00, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

CB-39
 STA. 2245+00.00, 4.00' RT.
 INSTALL TYPE F6
 RIM = 65.42
 6" INV. IN = 61.90
 12" INV. IN = 61.90
 12" INV. OUT = 61.90



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THE GOLD STAR
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PORTLAND AREA WIDENING &
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 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2245+00 TO STA. c 2245+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
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Drawn	GW	2/20	In Charge of RAL 2/20

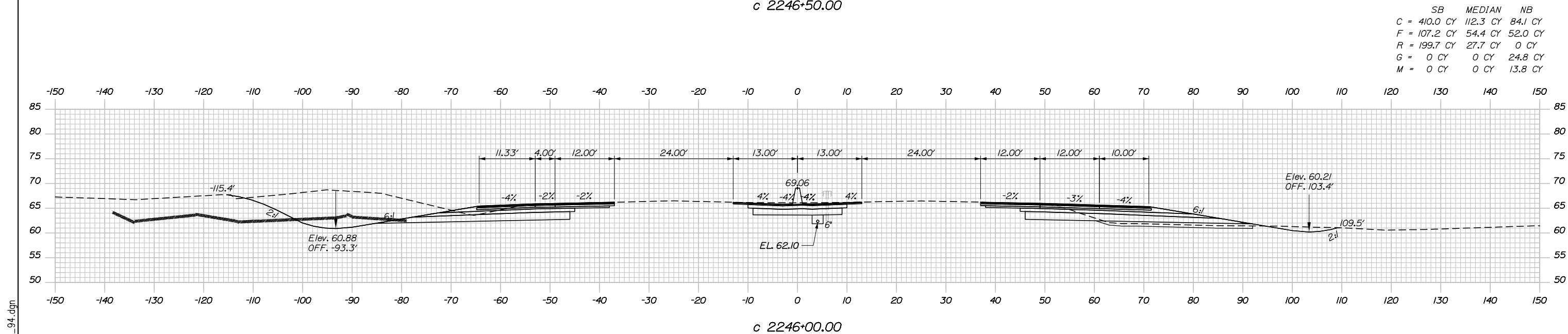
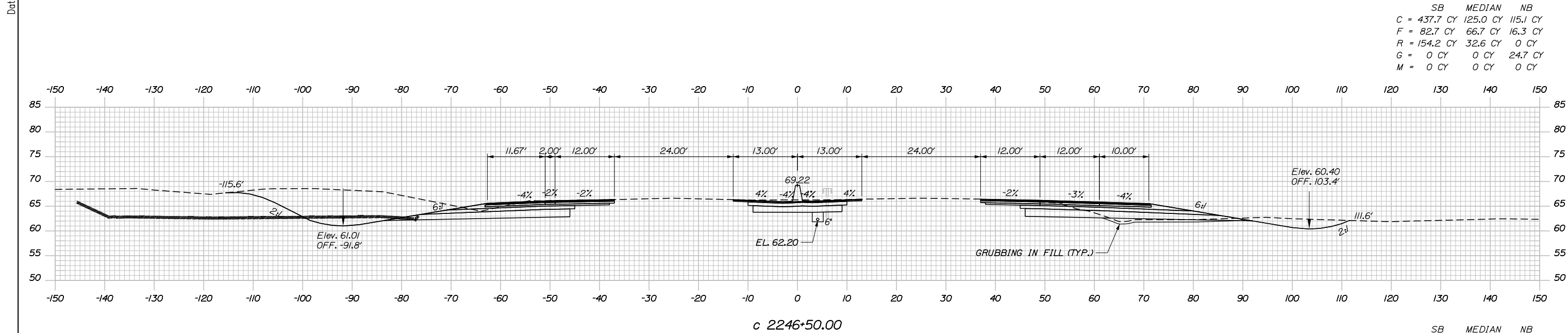
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

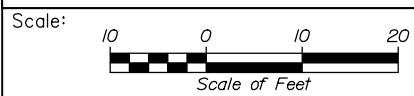
SHEET NUMBER: XS-93

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Date: 2/25/2020



Filename: PAW1_Cross_Section_94.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
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Drawn	GW	2/20	In Charge of	RAL	2/20

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2246+00 TO STA. c 2246+50

SHEET NUMBER: XS-94

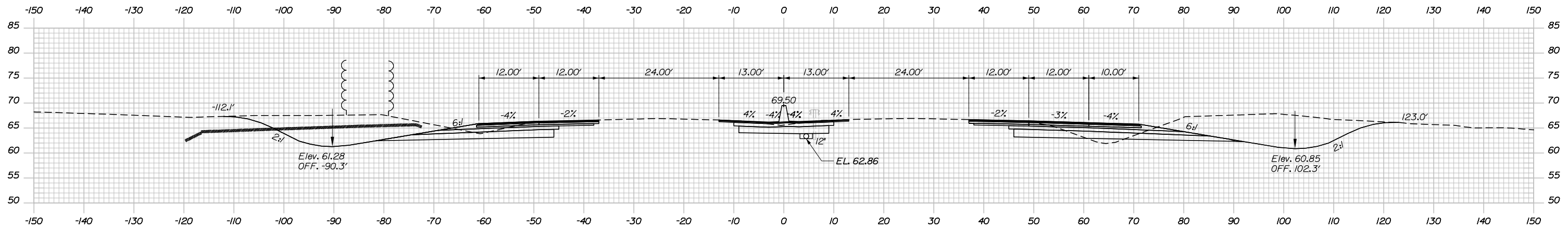
CONTRACT: 2020.03

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Date: 2/25/2020

Filename: PAW1_Cross_Section_95.dgn

	SB	MEDIAN	NB
C	309.5 CY	97.8 CY	298.4 CY
F	96.0 CY	54.4 CY	106.5 CY
R	221.6 CY	26.3 CY	227.2 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



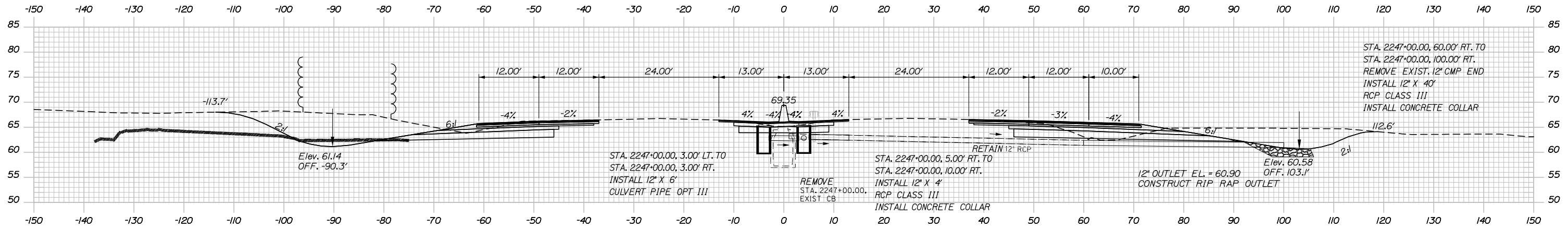
c 2247+50.00

CB-157
 STA. 2247+00.00, 4.00' LT.
 INSTALL TYPE F6
 RIM = 65.94
 12" INV. OUT = 62.67

STA. 2247+02.00, 4.00' RT. TO
 STA. 2248+48.00, 4.00' RT.
 INSTALL 12" X 14"
 UNDERDRAIN TYPE C

CB-40
 STA. 2247+00.00, 4.00' RT.
 INSTALL TYPE F6
 RIM = 66.02
 12" INV. IN = 62.67
 12" INV. IN = 62.57
 12" INV. OUT (EXIST.) = 62.57

	SB	MEDIAN	NB
C	433.5 CY	117.8 CY	194.1 CY
F	76.9 CY	66.7 CY	36.9 CY
R	123.1 CY	27.0 CY	94.5 CY
G	0 CY	0 CY	10.4 CY
M	0 CY	0 CY	0 CY



c 2247+00.00

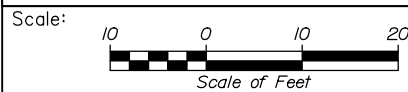
STA. 2247+00.00, 60.00' RT. TO
 STA. 2247+00.00, 100.00' RT.
 REMOVE EXIST. 12" CMP END
 INSTALL 12" X 40"
 RCP CLASS III
 INSTALL CONCRETE COLLAR

STA. 2247+00.00, 3.00' LT. TO
 STA. 2247+00.00, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

REMOVE
 STA. 2247+00.00,
 EXIST CB

STA. 2247+00.00, 5.00' RT. TO
 STA. 2247+00.00, 10.00' RT.
 INSTALL 12" X 4"
 RCP CLASS III
 INSTALL CONCRETE COLLAR

12" OUTLET EL. = 60.90
 CONSTRUCT RIP RAP OUTLET



Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

HNTB CORPORATION
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THE GOLD STAR
 MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2247+00 TO STA. c 2247+50

CONTRACT: 2020.03

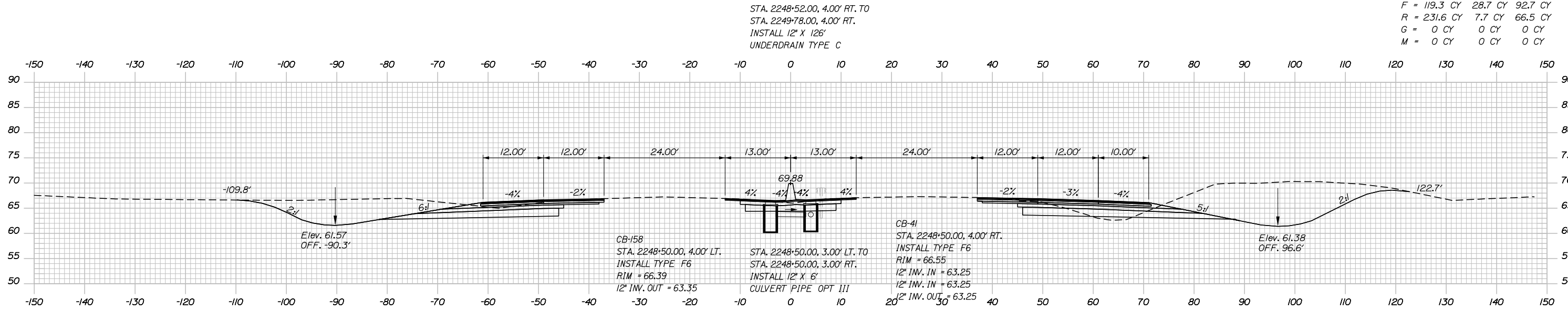
SHEET NUMBER: XS-95

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Date: 2/25/2020

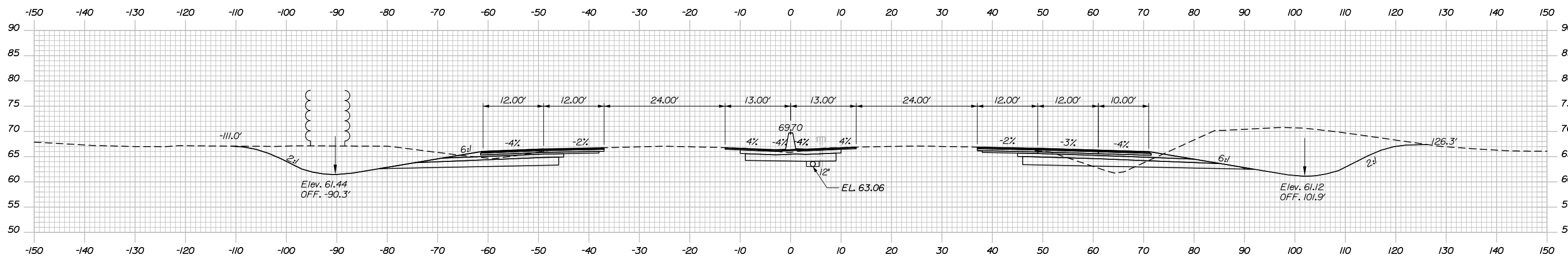
Filename: PAW1_Cross_Section_96.dgn

	SB	MEDIAN	NB
C	271.5 CY	100.6 CY	618.7 CY
F	119.3 CY	28.7 CY	92.7 CY
R	231.6 CY	7.7 CY	66.5 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

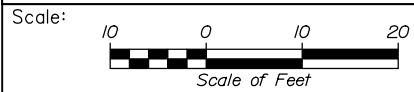


c 2248+50.00

	SB	MEDIAN	NB
C	241.7 CY	94.2 CY	502.8 CY
F	119.3 CY	33.7 CY	121.5 CY
R	284.2 CY	18.4 CY	171.0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



c 2248+00.00



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THE GOLD STAR
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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. c 2248+00 TO STA. c 2248+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-96

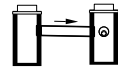
192 OF 310

Date: 2/25/2020

STA. 2249+82.00, 4.00' RT. TO
 STA. 2251+79.84, 4.00' RT.
 INSTALL 6" X 198"
 UNDERDRAIN TYPE B

CB-159
 STA. 2249+80.00, 4.00' LT.
 INSTALL TYPE F6
 RIM = 66.93
 12" INV. OUT = 63.79

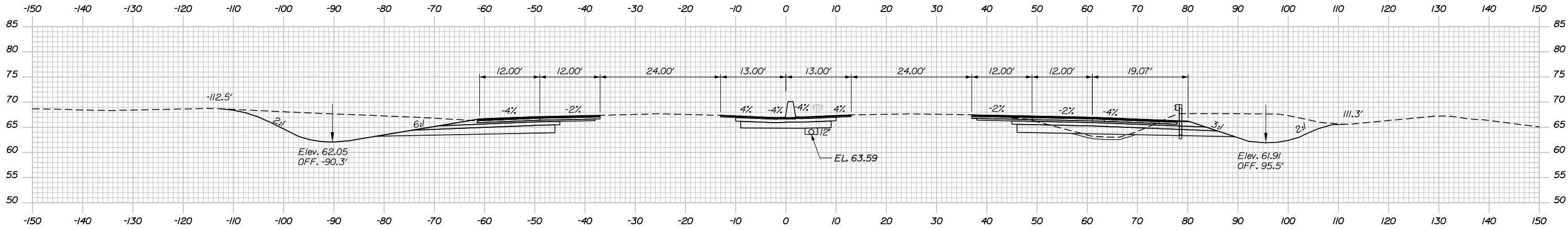
CB-42
 STA. 2249+80.00, 6.00' RT.
 INSTALL TYPE F6
 RIM = 67.06
 6" INV. IN = 63.69
 12" INV. IN = 63.69
 12" INV. OUT = 63.69



c 2249+80.00

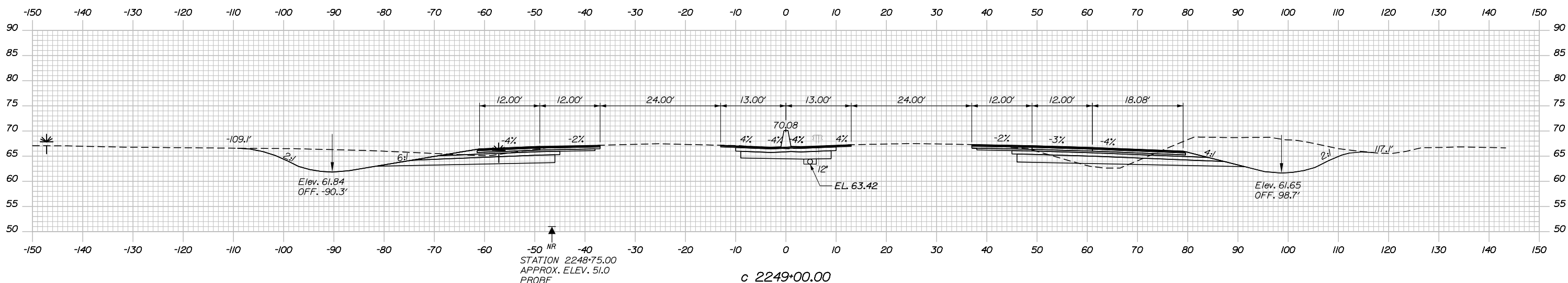
STA. 2249+80.00, 3.00' LT. TO
 STA. 2249+80.00, 5.00' RT.
 INSTALL 12" X 8"
 CULVERT PIPE OPT III

	SB	MEDIAN	NB
C	291.1 CY	91.0 CY	378.2 CY
F	59.6 CY	18.9 CY	50.2 CY
R	138.0 CY	7.4 CY	36.8 CY
G	0 CY	0 CY	5.1 CY
M	0 CY	0 CY	0 CY

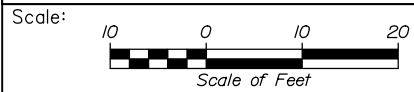


c 2249+50.00

	SB	MEDIAN	NB
C	209.2 CY	100.9 CY	501.3 CY
F	119.3 CY	35.0 CY	90.8 CY
R	254.6 CY	11.0 CY	64.9 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



c 2249+00.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2249+00 TO STA. c 2249+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

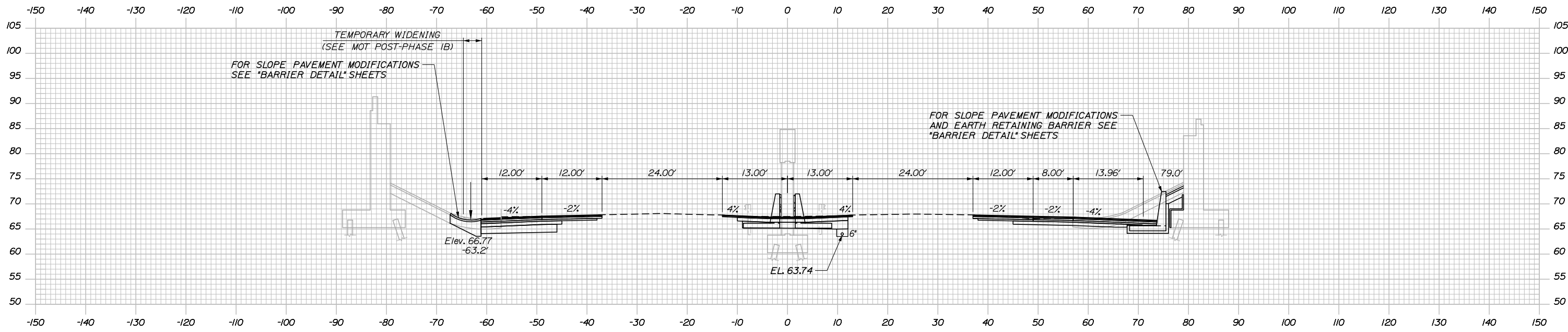
SHEET NUMBER: XS-97

193 OF 310

Filename: PAW1_Cross_Section_97.dgn

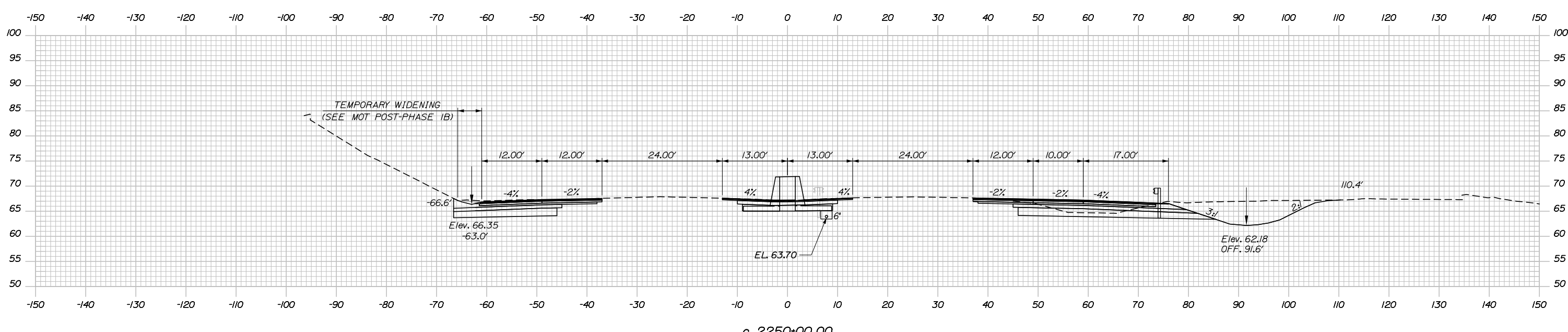
Date: 2/25/2020

	SB	MEDIAN	NB
C	= 119.7 CY	87.7 CY	219.1 CY
F	= 0 CY	0 CY	6.2 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



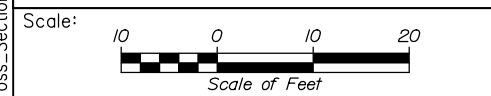
d 2250+50.00

	SB	MEDIAN	NB
C	= 284.9 CY	83.3 CY	315.4 CY
F	= 0 CY	0 CY	3.6 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	5.1 CY
M	= 0 CY	0 CY	0 CY



c 2250+00.00

Filename: PAW1_Cross_Section_98.dgn



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HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. c 2250+00 TO STA. d 2250+50

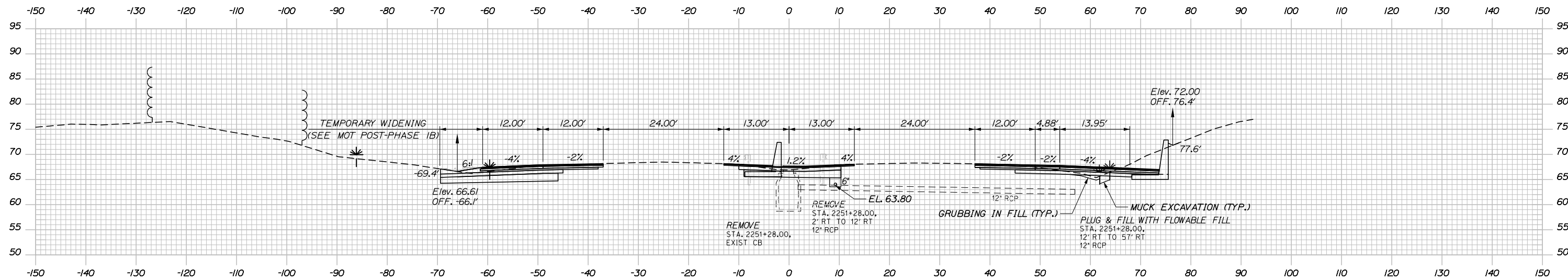
SHEET NUMBER: XS-98

CONTRACT: 2020.03

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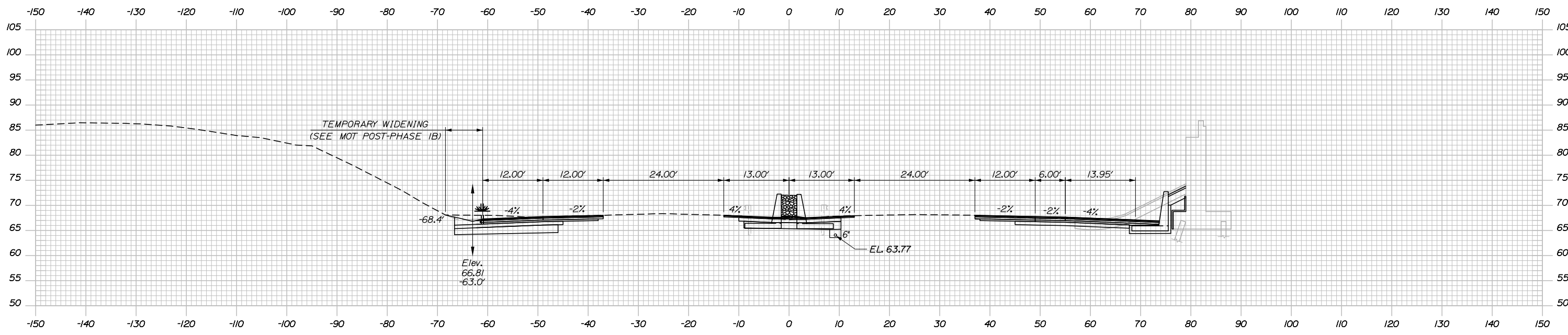
Date: 2/25/2020

	SB	MEDIAN	NB
C	77.9 CY	42.4 CY	54.0 CY
F	0 CY	0 CY	11.2 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0.9 CY
M	0 CY	0 CY	0.5 CY



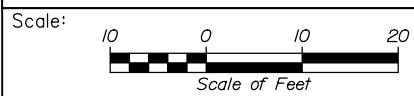
d 2251+28.00

	SB	MEDIAN	NB
C	134.7 CY	85.4 CY	130.3 CY
F	0 CY	0 CY	24.2 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



d 2251+00.00

Filename: PAW1_Cross_Section_99.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2251+00 TO STA. d 2251+28

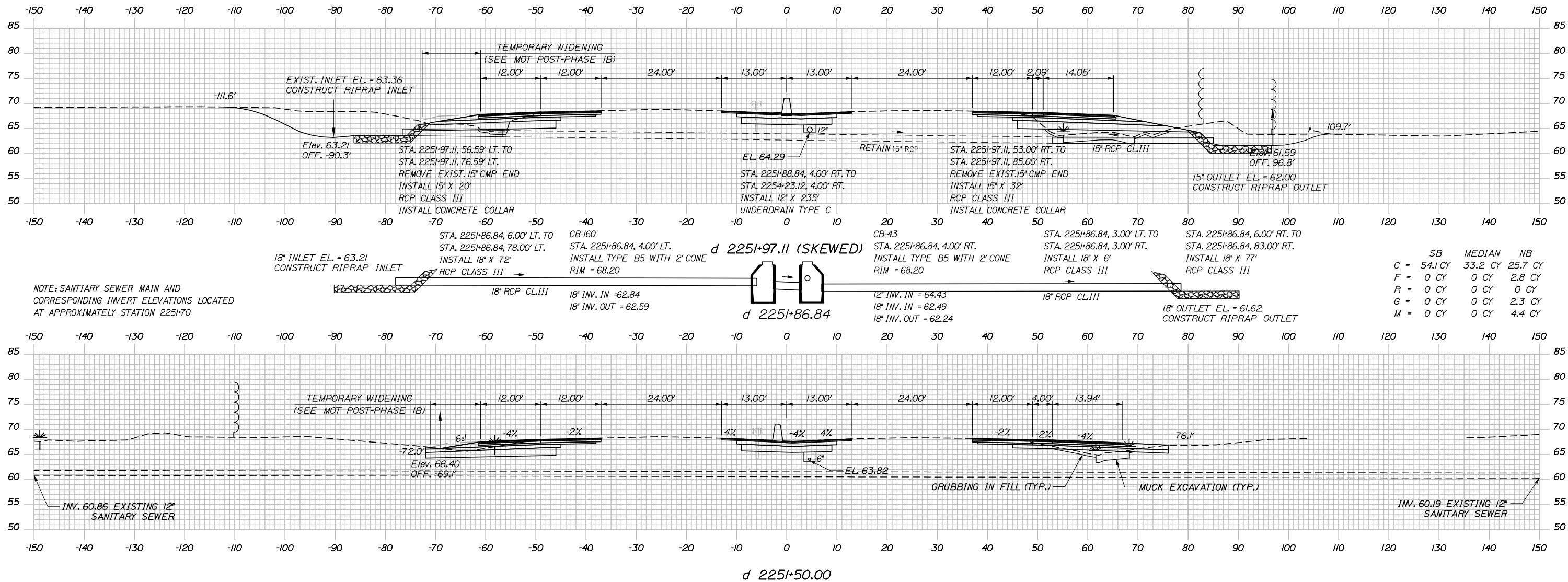
CONTRACT: 2020.03

SHEET NUMBER: XS-99

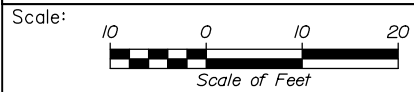
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Date: 2/25/2020

Filename: PAW1_Cross_Section_100.dgn



	SB	MEDIAN	NB
C =	54.1 CY	33.2 CY	25.7 CY
F =	0 CY	0 CY	2.8 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	2.3 CY
M =	0 CY	0 CY	4.4 CY



Designed by:



No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

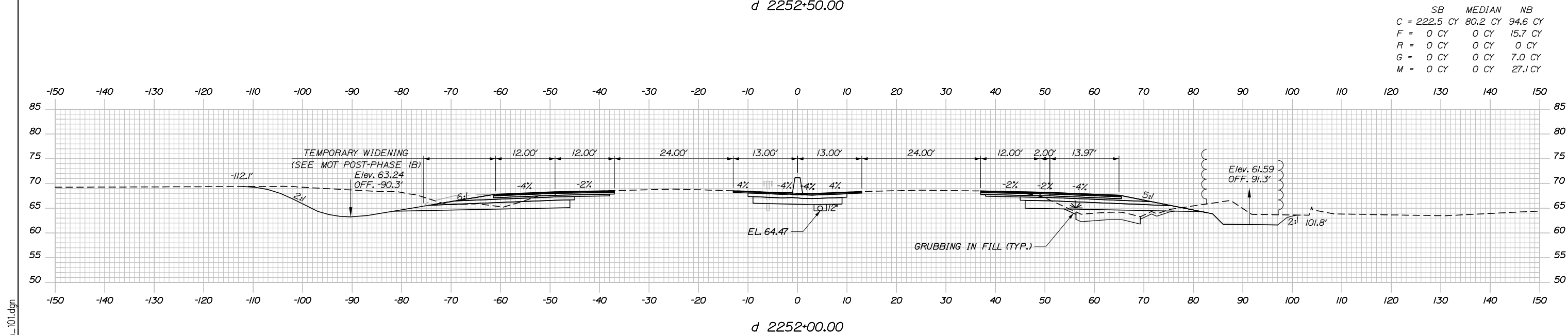
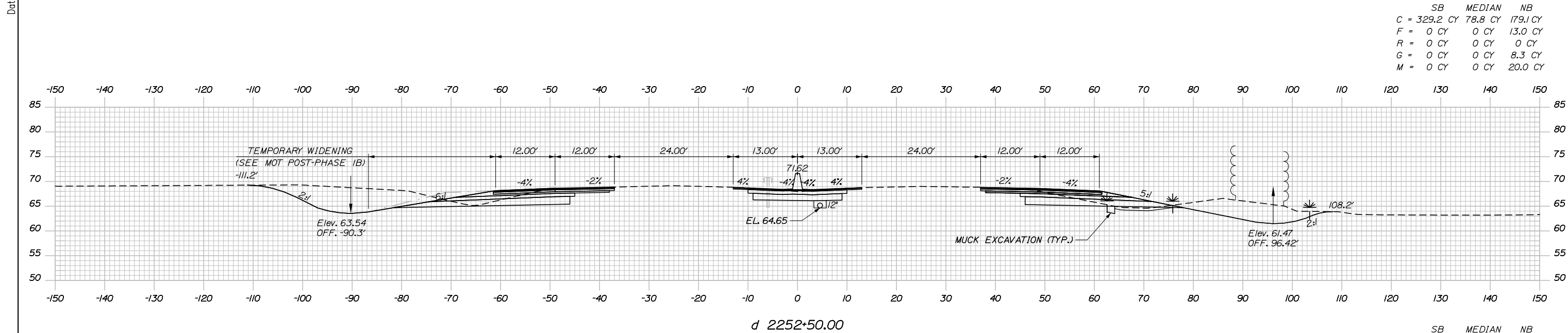
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2251+50 TO STA. d 2251+97

CONTRACT: 2020.03

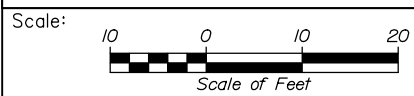
SHEET NUMBER: XS-100

196 OF 310

Date: 2/25/2020



Filename: PAW1_Cross_Section_101.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

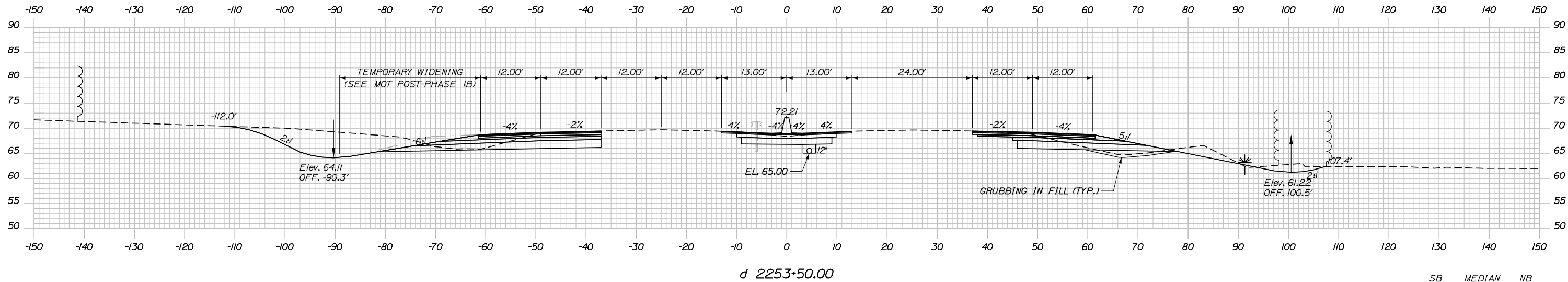
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2252+00 TO STA. d 2252+50

SHEET NUMBER: XS-101
 CONTRACT: 2020.03
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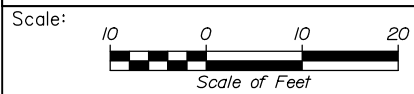
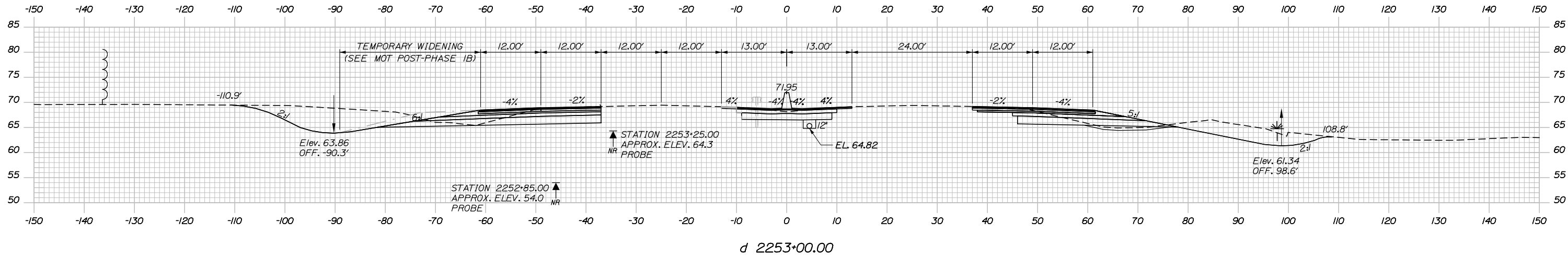
Date: 2/25/2020

Filename: PAW1_Cross_Section_102.dgn

	SB	MEDIAN	NB
C	336.9 CY	75.1 CY	144.1 CY
F	0 CY	0 CY	9.2 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	13.6 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	327.0 CY	76.6 CY	203.2 CY
F	0 CY	0 CY	4.4 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	11.4 CY
M	0 CY	0 CY	1.9 CY



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2253+00 TO STA. d 2253+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

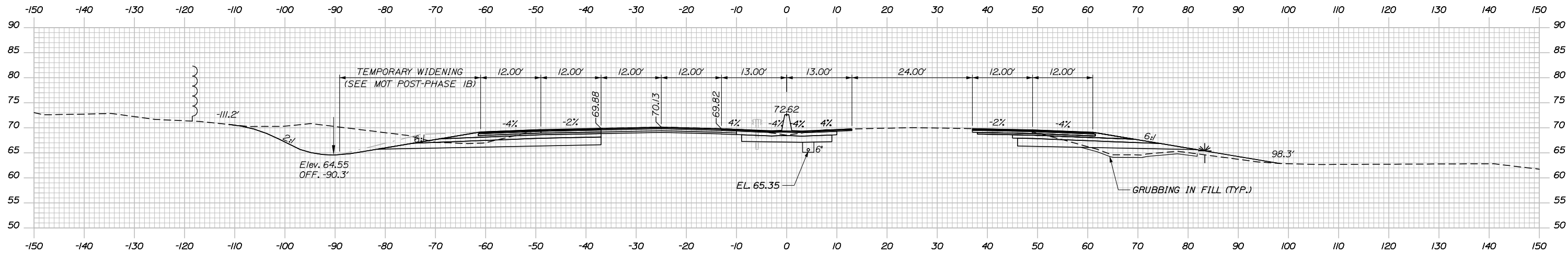
SHEET NUMBER: XS-102

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Date: 2/25/2020

69.95
70.20
69.89
d 2254+75.00

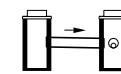
	SB	MEDIAN	NB
C	314.2 CY	73.3 CY	79.9 CY
F	63.1 CY	0 CY	51.6 CY
R	143.5 CY	0 CY	0 CY
G	0 CY	0 CY	17.9 CY
M	0 CY	0 CY	0 CY



STATION 2255+00 BEGIN FULL DEPTH RECONSTRUCTION OF THE TWO EXISTING SOUTHBOUND LANES. PROPOSED ELEVATIONS AT THE LANE LINES SHALL MATCH EXISTING. ELEVATIONS ARE SHOWN AT 12-FOOT INTERVALS. SEE TRANSITION DETAIL ON SHEET CD-04 FOR INFORMATION RELATIVE TO PAVEMENT AND AGGREGATE TRANSITIONS.

d 2254+50.00

CB-16I
STA. 2254+25.12, 4.00' LT.
INSTALL TYPE F6
RIM = 69.19
12' INV. IN = 65.36
CULVERT PIPE OPT III

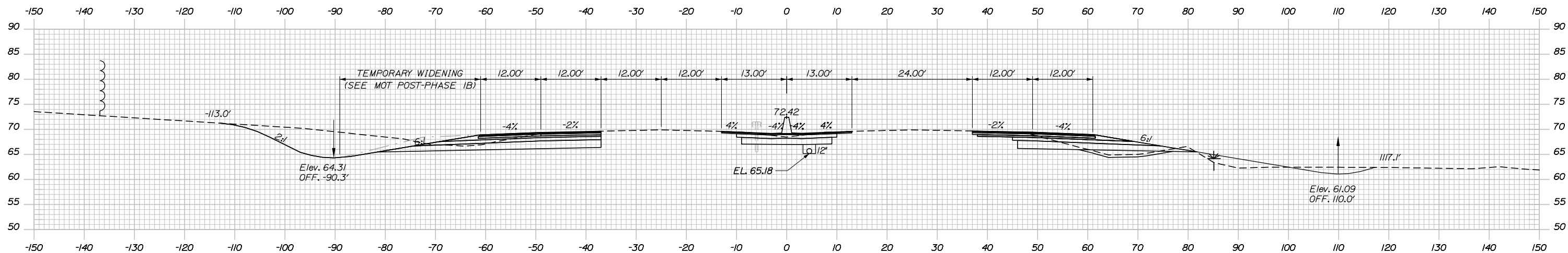


d 2254+25.12

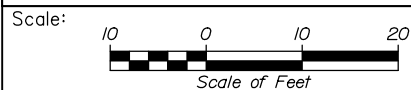
CB-44
STA. 2254+25.12, 4.00' RT.
INSTALL TYPE F6
RIM = 69.19
6' INV. IN = 65.26
12' INV. IN = 65.26
12' INV. OUT = 65.26

STA. 2254+27.12, 4.00' RT. TO
STA. 2258+87.94, 4.00' RT.
INSTALL 6' X 46'
UNDERDRAIN TYPE B

	SB	MEDIAN	NB
C	353.7 CY	74.4 CY	95.6 CY
F	0 CY	0 CY	32.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	14.6 CY
M	0 CY	0 CY	0 CY



d 2254+00.00



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THE GOLD STAR
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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2254+00 TO STA. d 2254+50

SHEET NUMBER: XS-103

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	JS	2/20	Checked TRS 2/20
Drawn	GW	2/20	In Charge of RAL 2/20

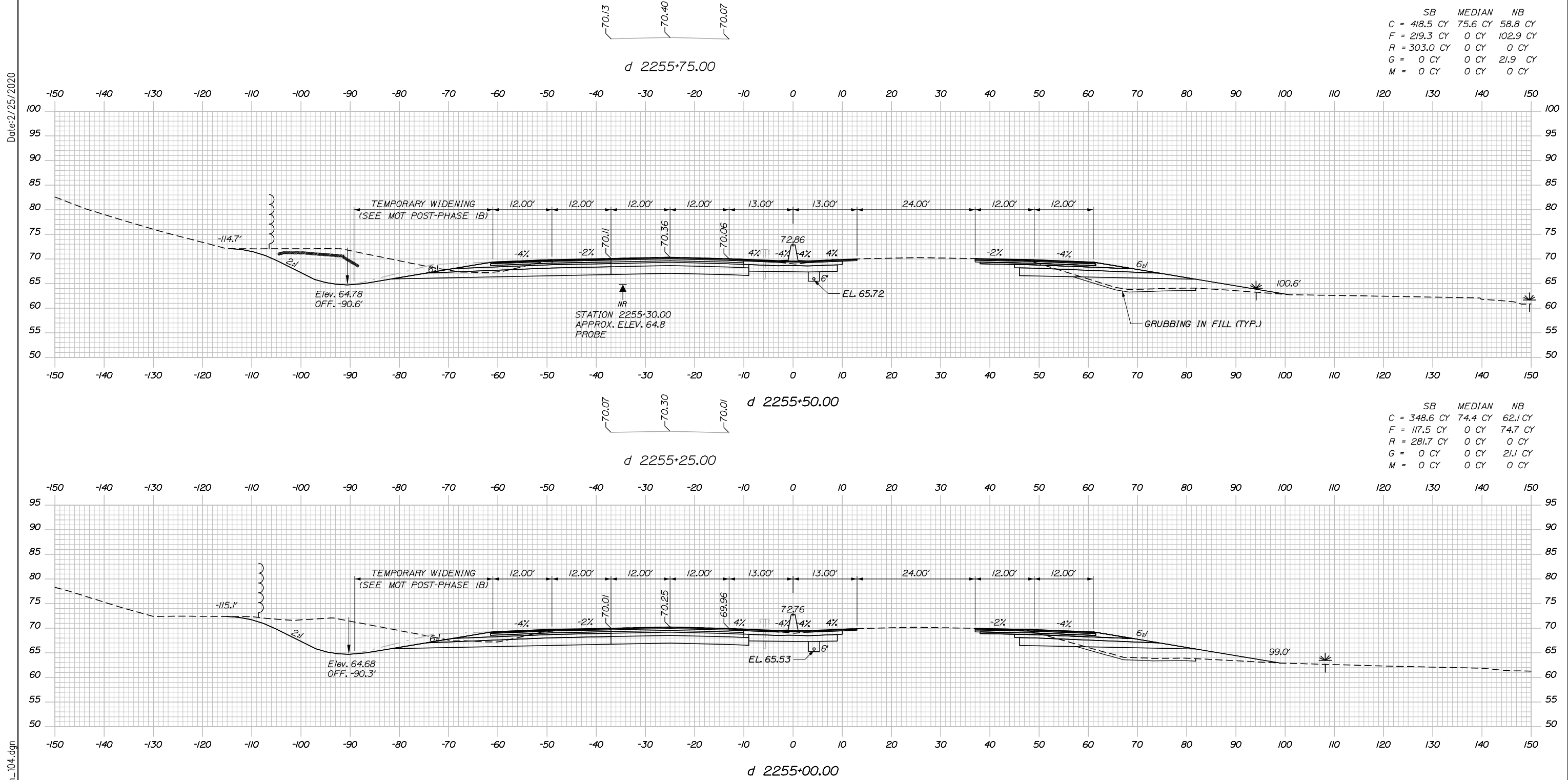
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

199 OF 310

Filename: PAW1_Cross_Section_103.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	418.5 CY	75.6 CY	58.8 CY
F	219.3 CY	0 CY	102.9 CY
R	303.0 CY	0 CY	0 CY
G	0 CY	0 CY	21.9 CY
M	0 CY	0 CY	0 CY

	SB	MEDIAN	NB
C	348.6 CY	74.4 CY	62.1 CY
F	117.5 CY	0 CY	74.7 CY
R	281.7 CY	0 CY	0 CY
G	0 CY	0 CY	21.1 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 TEL (207) 774-5155
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2255+00 TO STA. d 2255+50

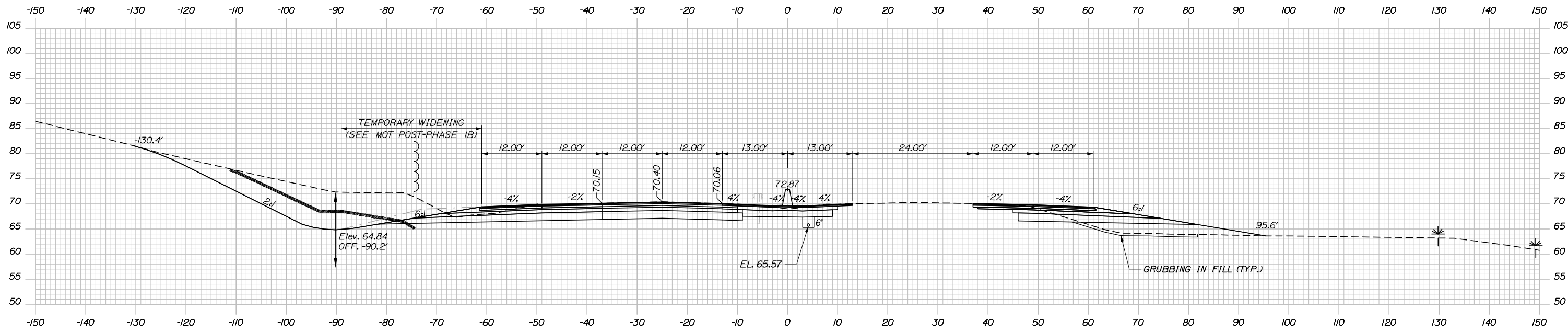
SHEET NUMBER: XS-104
 200 OF 310

CONTRACT: 2020.03

Filename: PAW1_Cross_Section_104.dgn

Date: 2/25/2020

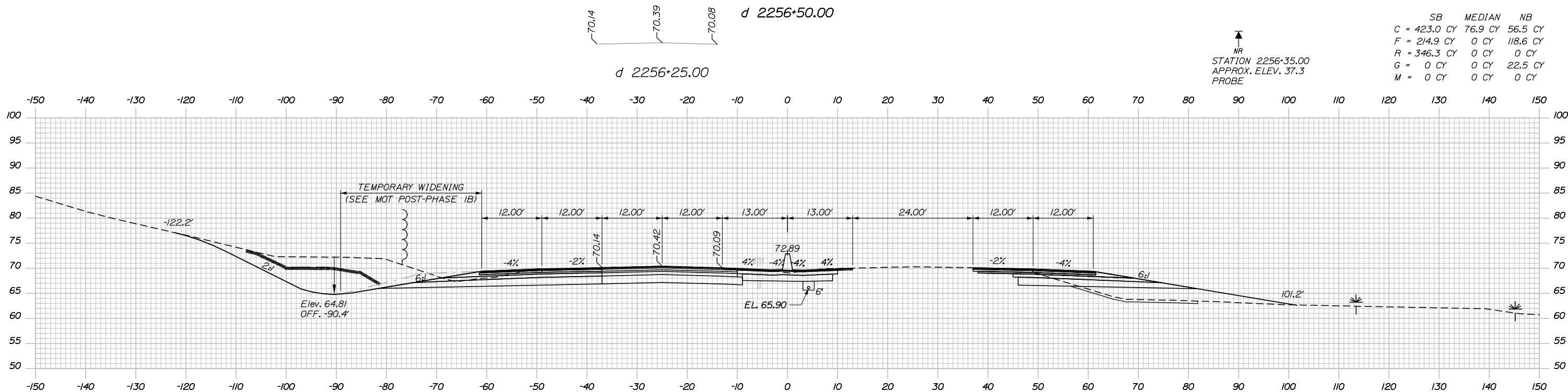
	SB	MEDIAN	NB
C	= 561.4 CY	78.0 CY	55.8 CY
F	= 117.7 CY	0 CY	114.4 CY
R	= 331.8 CY	0 CY	0 CY
G	= 0 CY	0 CY	22.6 CY
M	= 0 CY	0 CY	0 CY



70.12
70.36
70.02
d 2256+75.00

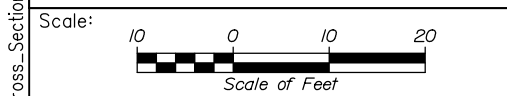
	SB	MEDIAN	NB
C	= 423.0 CY	76.9 CY	56.5 CY
F	= 214.9 CY	0 CY	118.6 CY
R	= 346.3 CY	0 CY	0 CY
G	= 0 CY	0 CY	22.5 CY
M	= 0 CY	0 CY	0 CY

NR
STATION 2256+35.00
APPROX. ELEV. 37.3
PROBE



70.14
70.39
70.08
d 2256+25.00

d 2256+00.00



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2256+00 TO STA. d 2256+50
SHEET NUMBER: XS-105
CONTRACT: 2020.03
201 OF 310

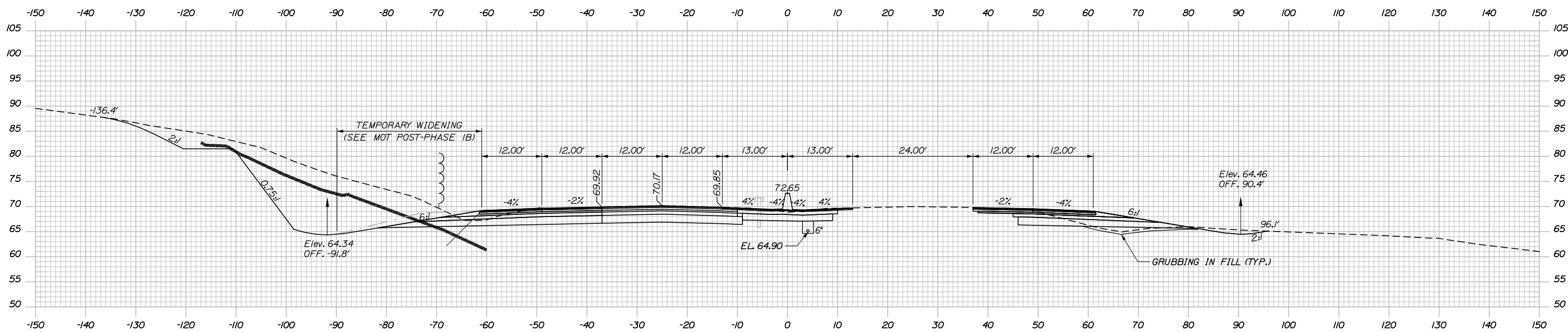
Filename: PAW1_Cross_Section_105.dgn

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

Date: 2/25/2020

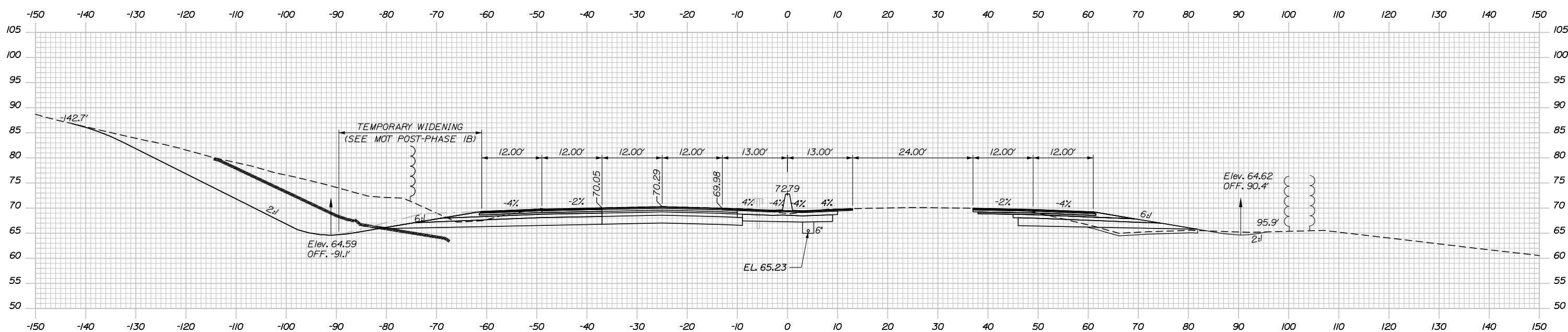
69.86
70.09
69.76
d 2257+75.00

	SB	MEDIAN	NB
C	695.1 CY	78.2 CY	78.7 CY
F	40.6 CY	0 CY	17.1 CY
R	401.3 CY	0 CY	0 CY
G	0 CY	0 CY	18.7 CY
M	0 CY	0 CY	0 CY

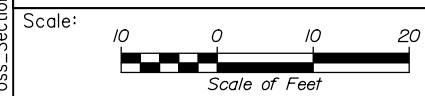


69.98
70.23
69.92
d 2257+50.00
d 2257+25.00

	SB	MEDIAN	NB
C	736.0 CY	77.0 CY	65.9 CY
F	88.1 CY	0 CY	60.2 CY
R	320.6 CY	0 CY	0 CY
G	0 CY	0 CY	20.9 CY
M	0 CY	0 CY	0 CY



Filename: PAW1_Cross_Section_106.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

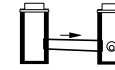
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2257+00 TO STA. d 2257+50

SHEET NUMBER: XS-106
CONTRACT: 2020.03
202 OF 310

STA. 2258+89.94, 3.00' LT. TO
 STA. 2258+89.94, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

CB-162
 STA. 2258+89.94, 4.00' LT.
 INSTALL TYPE F6
 RIM = 68.67
 12" INV. OUT = 63.92



CB-45
 STA. 2258+89.94, 4.00' RT.
 INSTALL TYPE F6
 RIM = 68.62
 12" INV. IN = 63.77
 6" INV. IN = 63.77
 12" INV. OUT = 63.67

STA. 2258+91.94, 4.00' RT. TO
 STA. 2260+98.00, 4.00' RT.
 INSTALL 12" X 20"
 UNDERDRAIN TYPE C

	SB	MEDIAN	NB
C	651.5 CY	80.1 CY	70.2 CY
F	72.5 CY	0 CY	22.6 CY
R	680.8 CY	0 CY	0 CY
G	0 CY	0 CY	19.4 CY
M	0 CY	0 CY	0 CY

d 2258+75.00

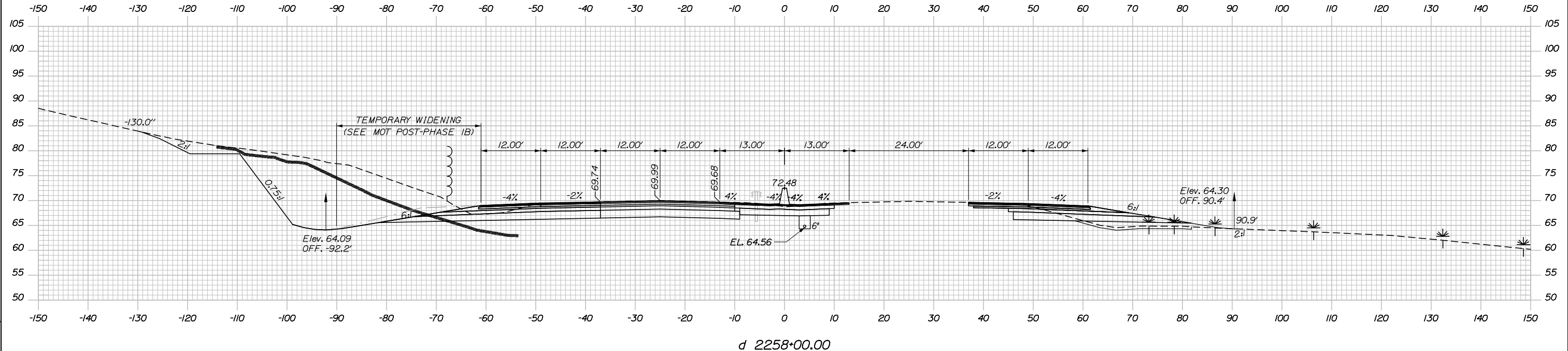
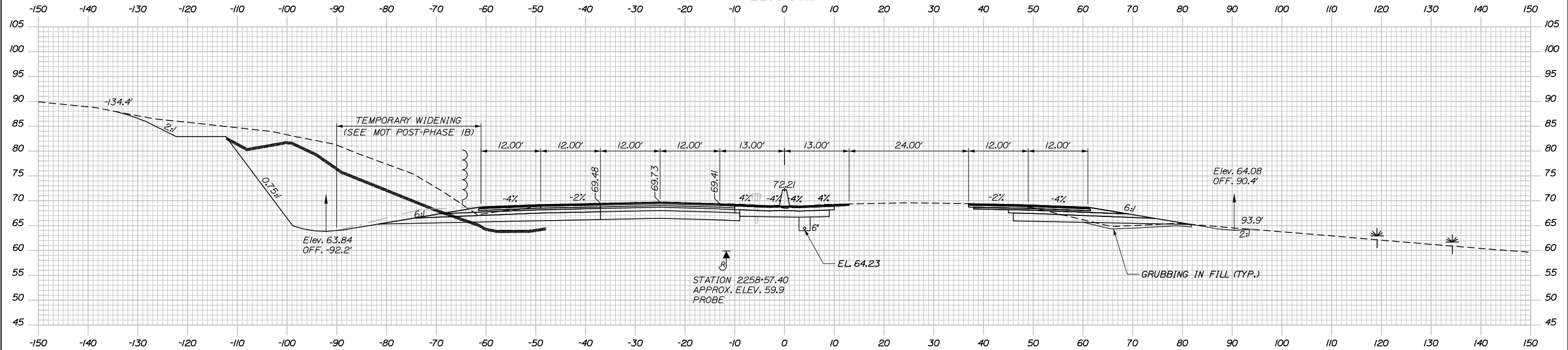
d 2258+89.94

d 2258+50.00

d 2258+25.00

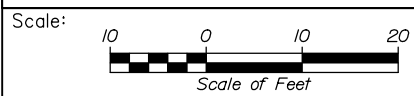
d 2258+00.00

Date: 2/25/2020



	SB	MEDIAN	NB
C	580.0 CY	80.0 CY	73.1 CY
F	46.9 CY	0 CY	23.3 CY
R	521.8 CY	0 CY	0 CY
G	0 CY	0 CY	19.4 CY
M	0 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_107.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 340 County Road, Suite 6-C
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

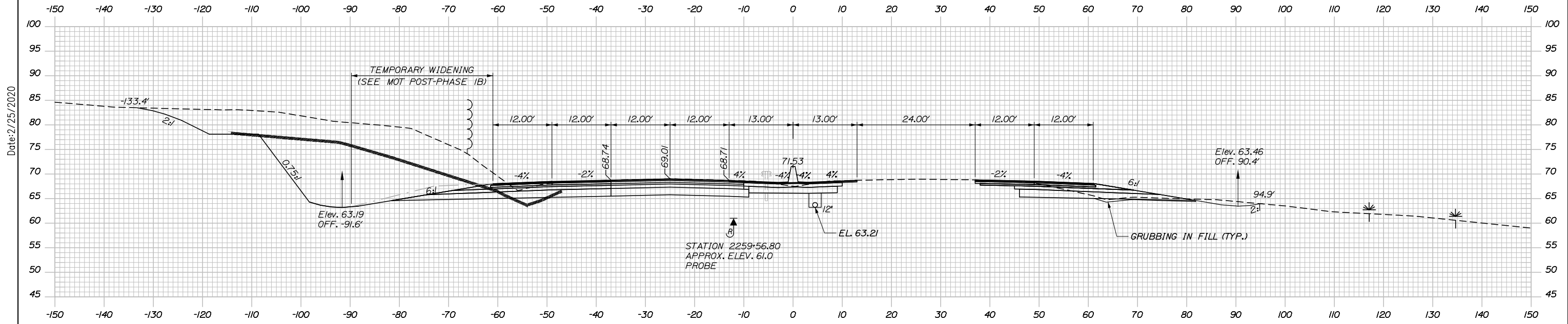
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2258+00 TO STA. d 2258+50

SHEET NUMBER: XS-107
 203 OF 310

CONTRACT: 2020.03

d 2259+75.00

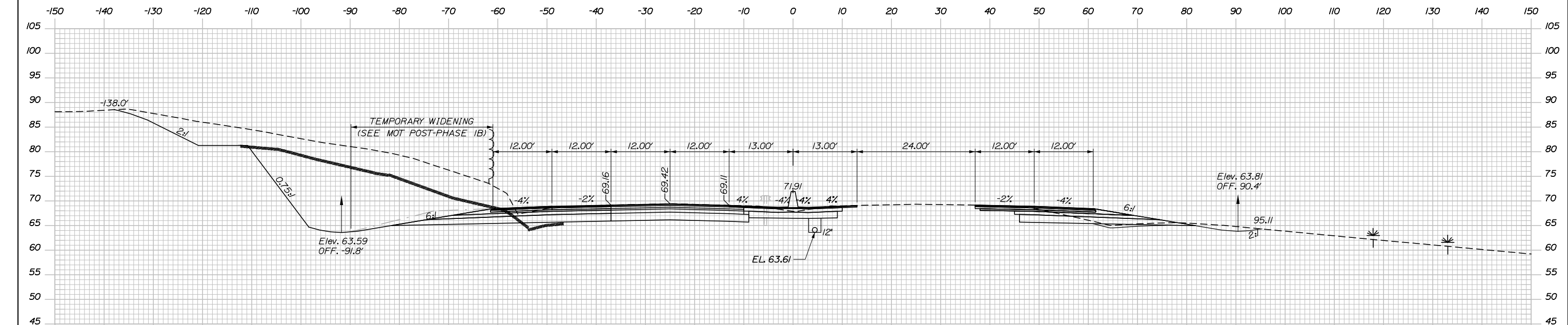
	SB	MEDIAN	NB
C	= 904.8 CY	74.4 CY	98.5 CY
F	= 186.8 CY	0 CY	1.0 CY
R	= 922.7 CY	0 CY	0 CY
G	= 0 CY	0 CY	8.8 CY
M	= 0 CY	0 CY	0 CY



d 2259+50.00

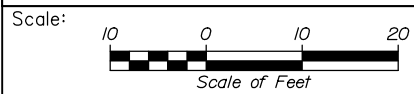
	SB	MEDIAN	NB
C	= 819.1 CY	77.4 CY	87.4 CY
F	= 132.4 CY	0 CY	5.7 CY
R	= 865.3 CY	0 CY	0 CY
G	= 0 CY	0 CY	13.4 CY
M	= 0 CY	0 CY	0 CY

d 2259+25.00



d 2259+00.00

Filename: PAW1_Cross_Section_108.dgn



Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date
Designed	JS	2/20	Checked	TRS 2/20
Drawn	GW	2/20	In Charge of	RAL 2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2259+00 TO STA. d 2259+50

CONTRACT: 2020.03

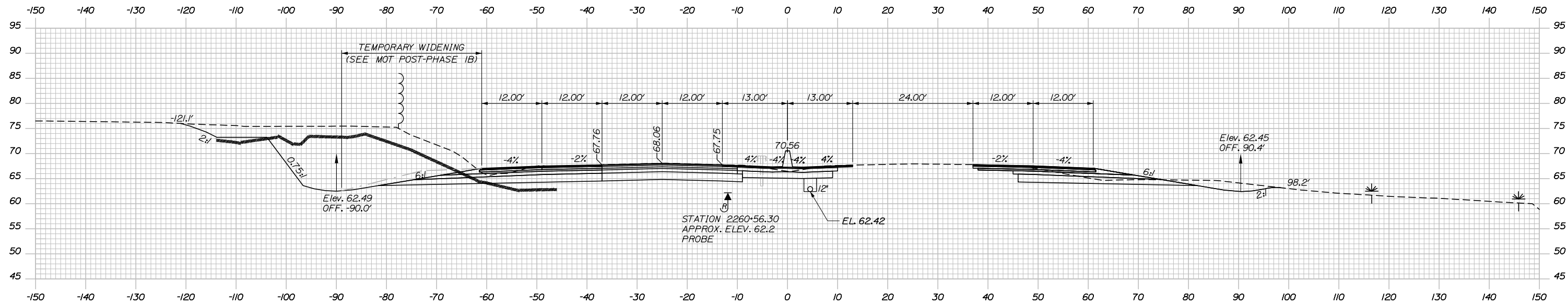
SHEET NUMBER: XS-108

204 OF 310

Date: 2/25/2020

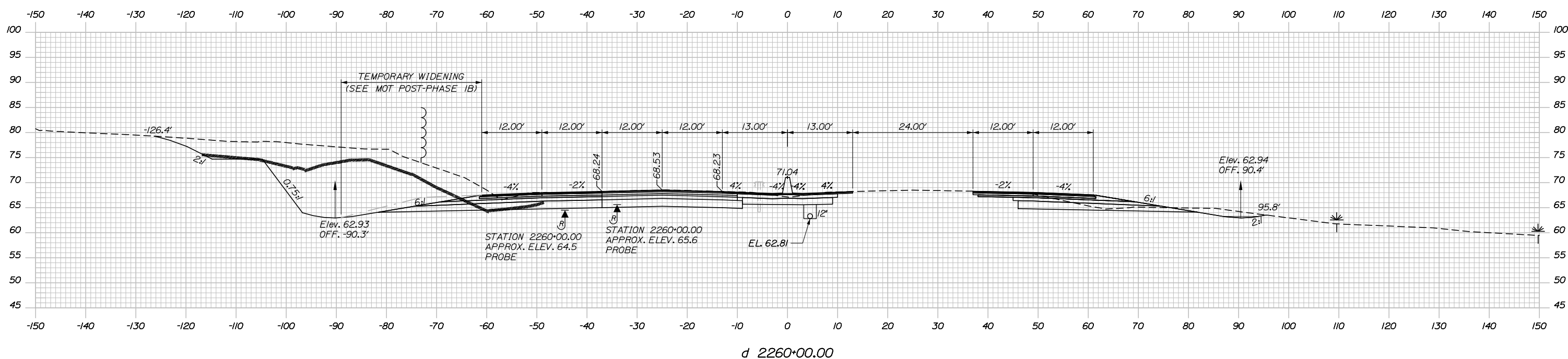
67.51
67.79
67.48
d 2260+75.00

	SB	MEDIAN	NB
C	625.5 CY	74.5 CY	136.4 CY
F	146.0 CY	0 CY	0 CY
R	698.1 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

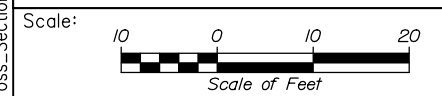


68.01
68.29
67.99
d 2260+50.00
d 2260+25.00

	SB	MEDIAN	NB
C	787.9 CY	74.8 CY	111.9 CY
F	181.9 CY	0 CY	0.3 CY
R	827.4 CY	0 CY	0 CY
G	0 CY	0 CY	4.4 CY
M	0 CY	0 CY	0 CY



Filename: PAW1_Cross_Section_109.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
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MAINE TURNPIKE

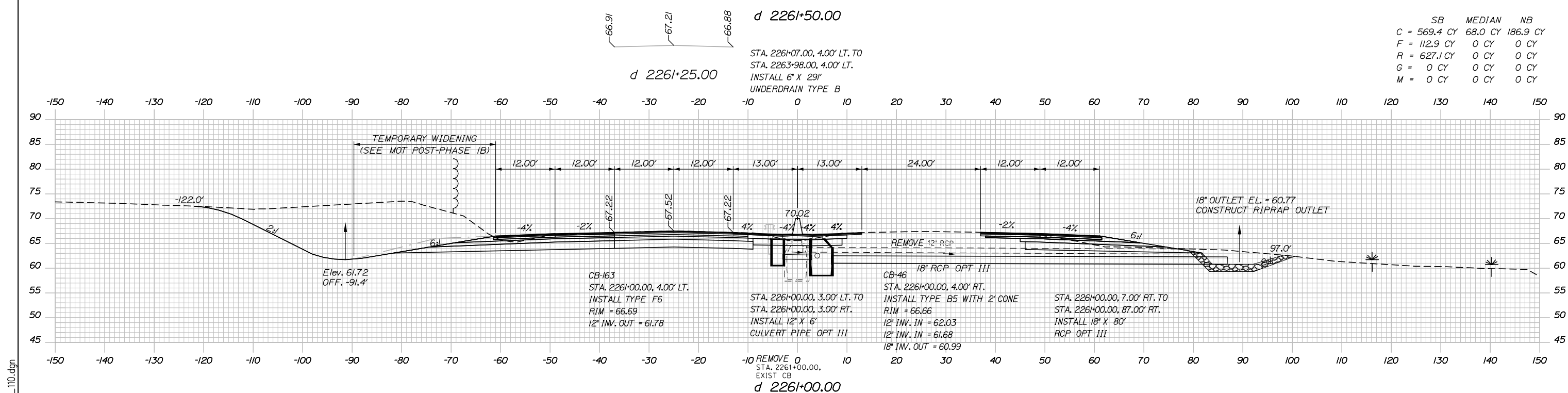
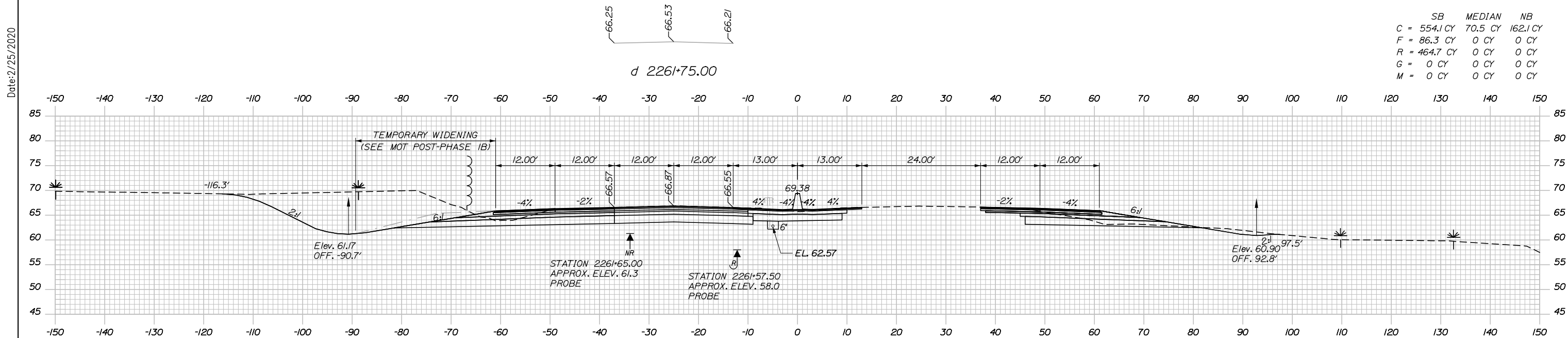
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2260+00 TO STA. d 2260+50

SHEET NUMBER: XS-109
CONTRACT: 2020.03
205 OF 310

Date: 2/25/2020



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

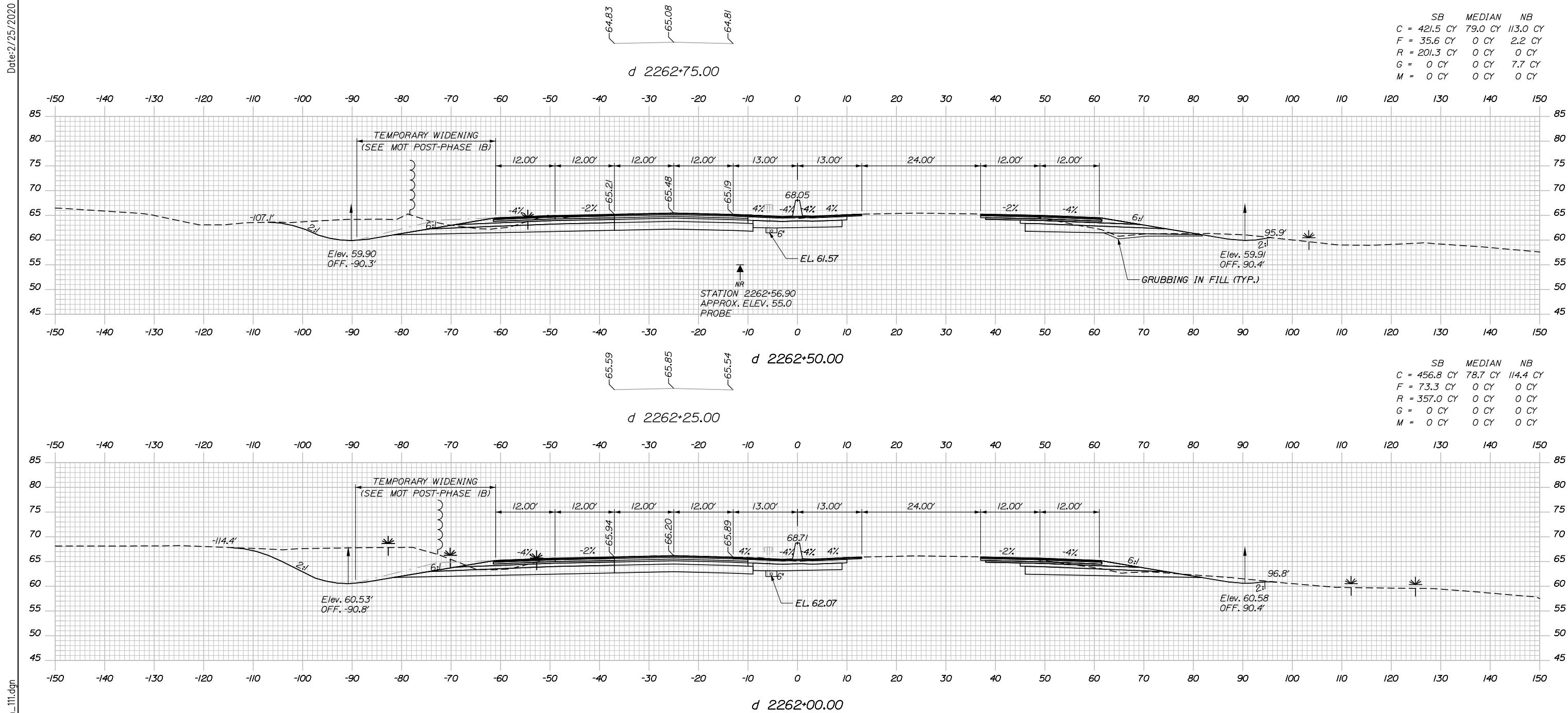
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2261+00 TO STA. d 2261+50

SHEET NUMBER: XS-110
 206 OF 310

CONTRACT: 2020.03

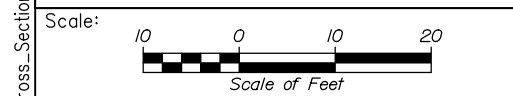
Filename: PAW1_Cross_Section_110.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	421.5 CY	79.0 CY	113.0 CY
F	35.6 CY	0 CY	2.2 CY
R	201.3 CY	0 CY	0 CY
G	0 CY	0 CY	7.7 CY
M	0 CY	0 CY	0 CY

	SB	MEDIAN	NB
C	456.8 CY	78.7 CY	114.4 CY
F	73.3 CY	0 CY	0 CY
R	357.0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2262+00 TO STA. d 2262+50

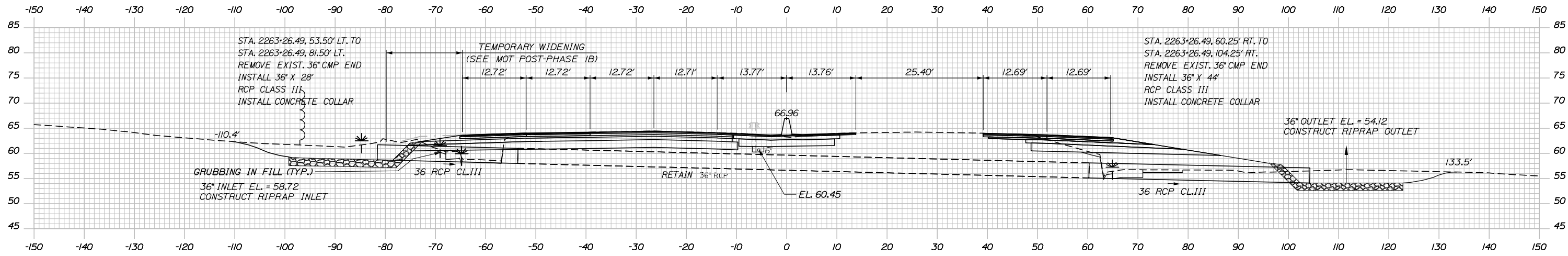
SHEET NUMBER: XS-111

CONTRACT: 2020.03

207 OF 310

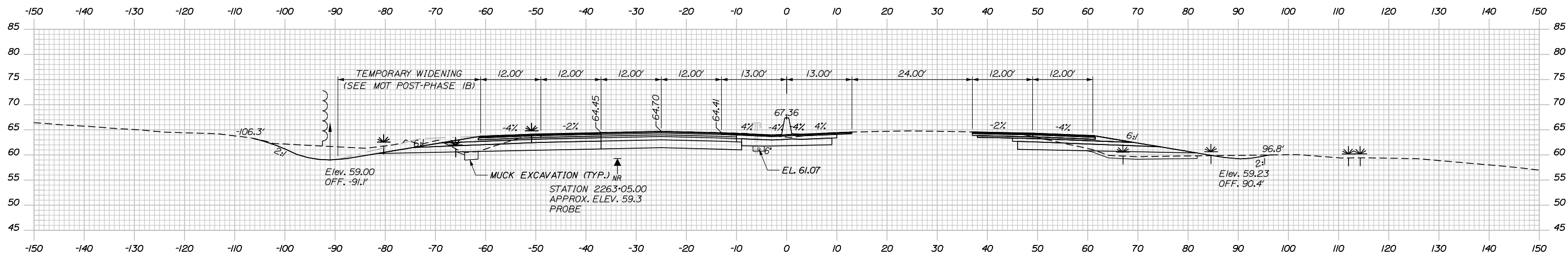
Filename: PAW1_Cross_Section_111.dgn

Date: 2/25/2020



d 2263+26.49 (SKEWED)

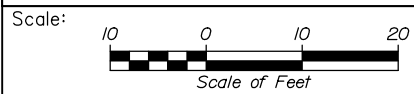
d 2263+25.00



d 2263+00.00

	SB	MEDIAN	NB
C	445.0 CY	77.4 CY	84.4 CY
F	0.3 CY	0 CY	17.3 CY
R	0 CY	0 CY	0 CY
G	0.5 CY	0 CY	17.4 CY
M	3.8 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_112.dgn



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	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

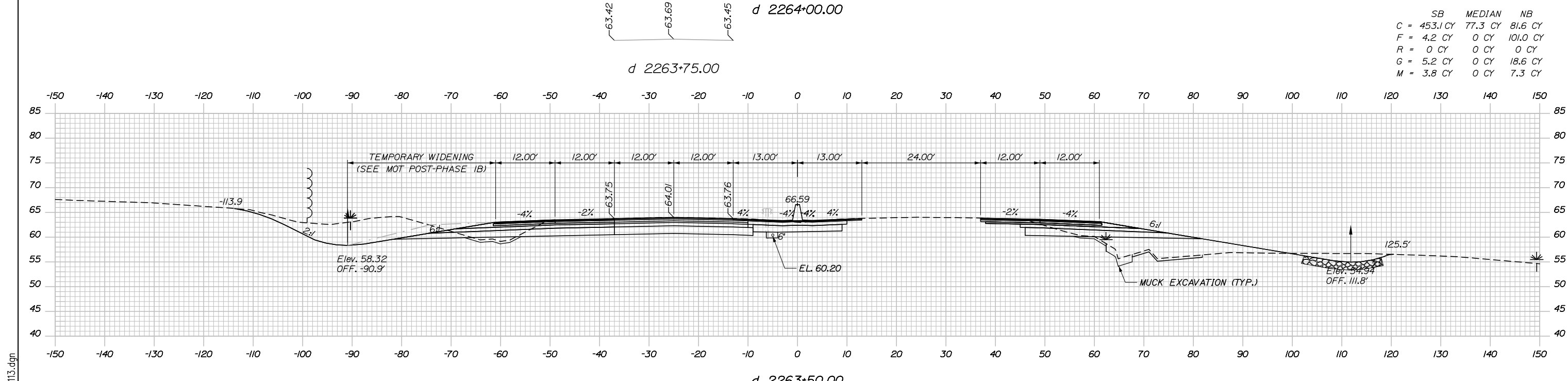
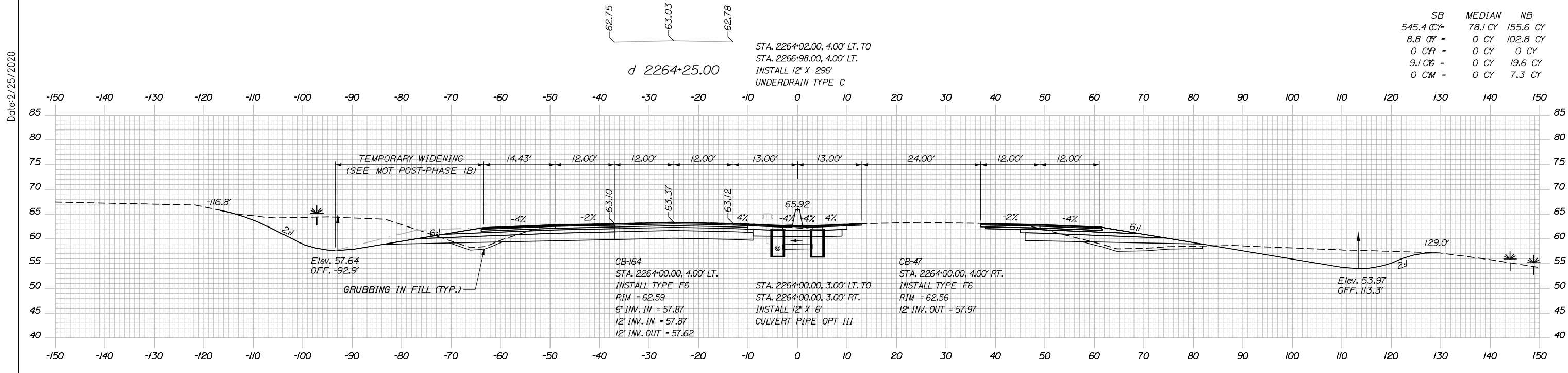
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2263+00 TO STA. d 2263+26

CONTRACT: 2020.03

SHEET NUMBER: XS-112

208 OF 310

Date: 2/25/2020



Scale: 10 0 10 20
 Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2263+50 TO STA. d 2264+00

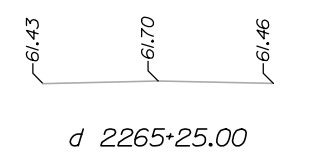
SHEET NUMBER: XS-113
 209 OF 310

CONTRACT: 2020.03

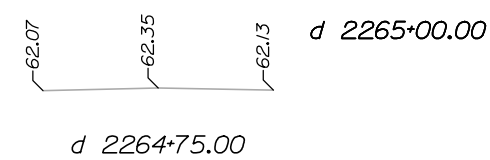
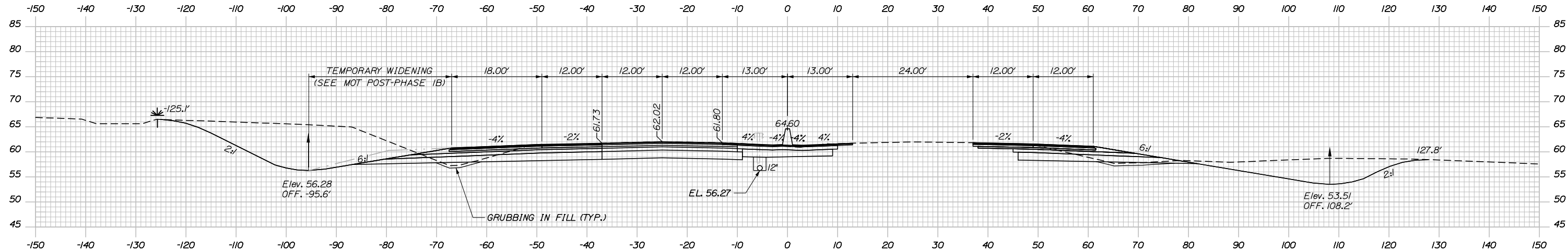
Filename: PAW1_Cross_Section_113.dgn

STATION 2265+40 END FULL DEPTH RECONSTRUCTION OF SOUTHBOUND LANES; MATCH EXISTING ELEVATION. SEE TRANSITION DETAILS ON SHEET CD-04.

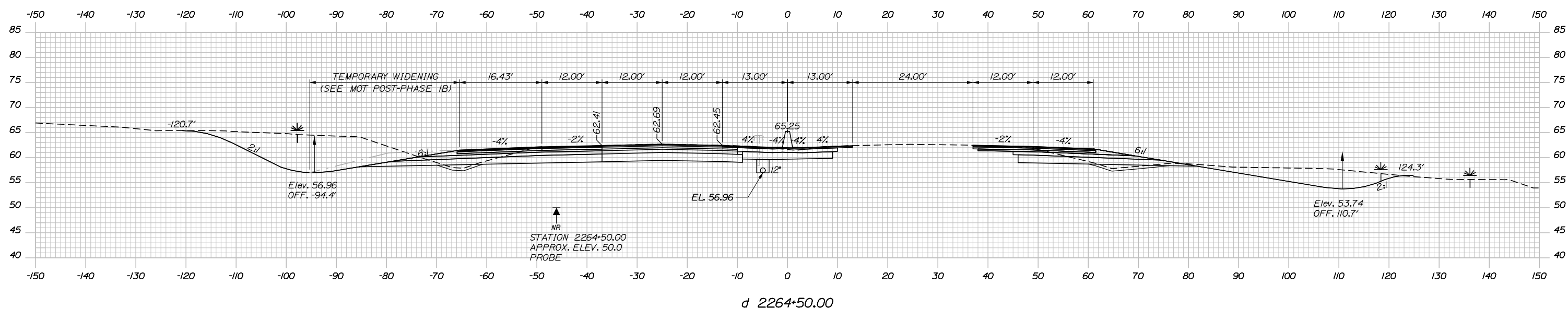
Date: 2/25/2020



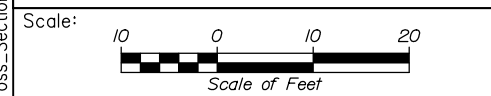
	SB	MEDIAN	NB
C	729.8 CY	78.5 CY	275.9 CY
F	4.5 CY	0 CY	4.7 CY
R	0 CY	0 CY	0 CY
G	6.9 CY	0 CY	11.3 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	629.3 CY	77.6 CY	229.2 CY
F	7.3 CY	0 CY	20.6 CY
R	0 CY	0 CY	0 CY
G	7.9 CY	0 CY	16.8 CY
M	0 CY	0 CY	0 CY



Filename: PAW1_Cross_Section_114.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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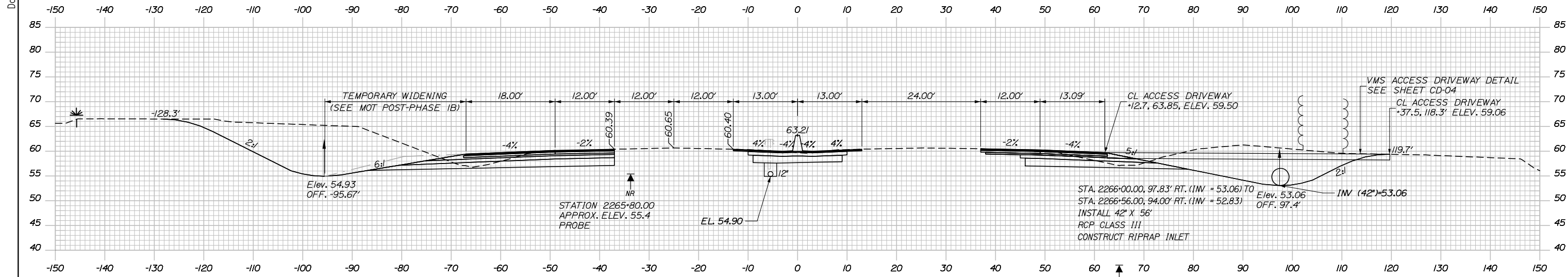
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

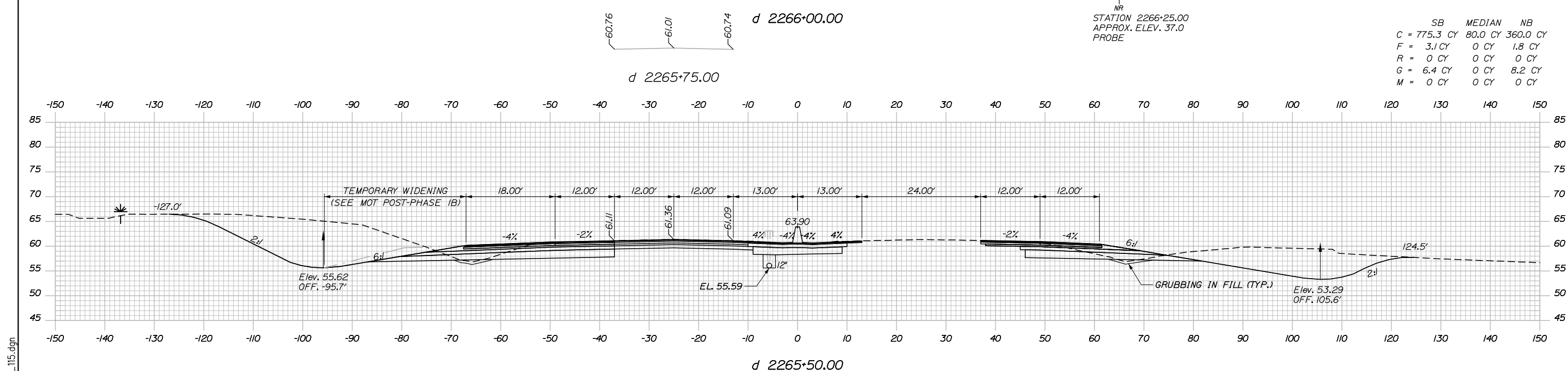
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2264+50 TO STA. d 2265+00

SHEET NUMBER: XS-114
CONTRACT: 2020.03
210 OF 310

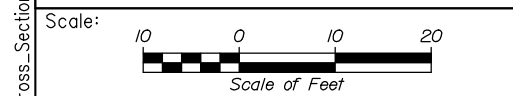
Date: 2/26/2020



	SB	MEDIAN	NB
C	755.1 CY	80.3 CY	396.9 CY
F	0.9 CY	0 CY	0.8 CY
R	0 CY	0 CY	0 CY
G	3.0 CY	0 CY	3.0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	775.3 CY	80.0 CY	360.0 CY
F	3.1 CY	0 CY	1.8 CY
R	0 CY	0 CY	0 CY
G	6.4 CY	0 CY	8.2 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

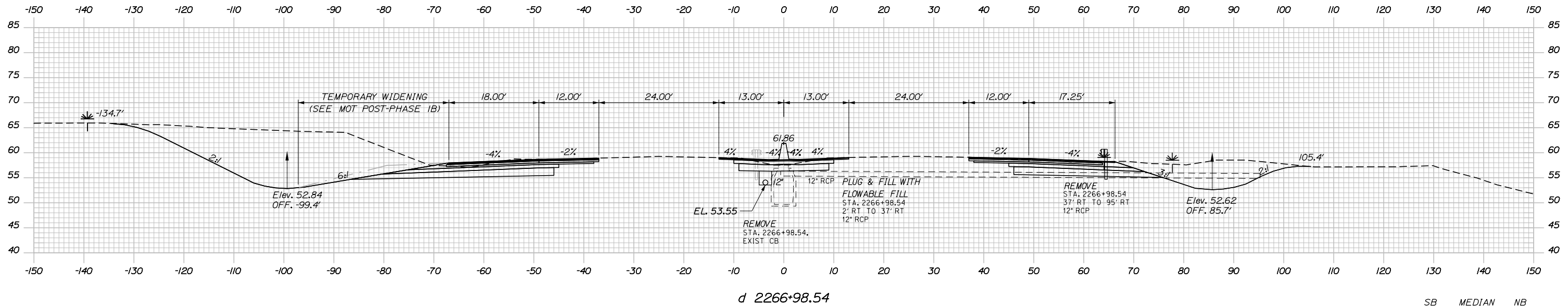
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2265+50 TO STA. d 2266+00
 SHEET NUMBER: XS-115
 CONTRACT: 2020.03
 211 OF 310

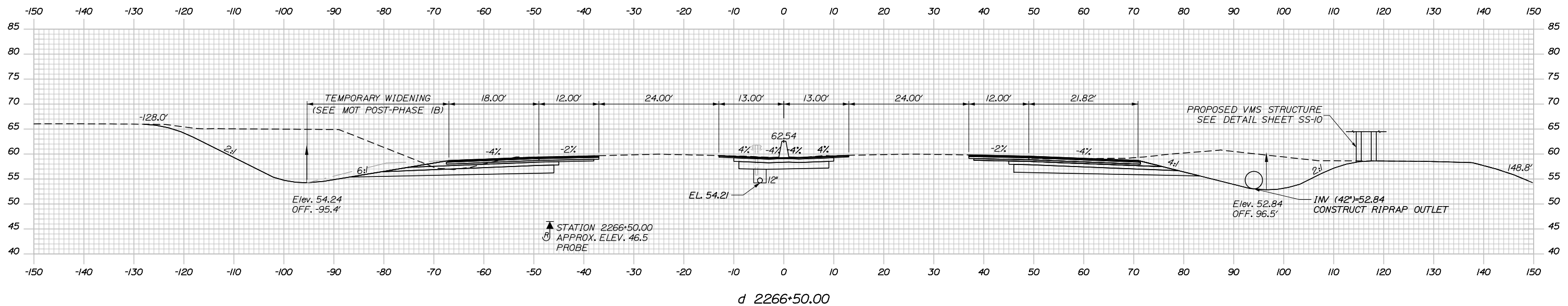
Filename: PAW1_Cross_Section_115.dgn

Date: 2/25/2020

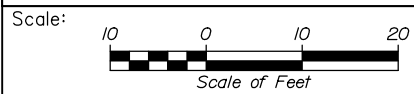
	SB	MEDIAN	NB
C	819.4 CY	70.0 CY	438.2 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	751.16 CY	79.2 CY	459.7 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Filename: PAW1_Cross_Section_116.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

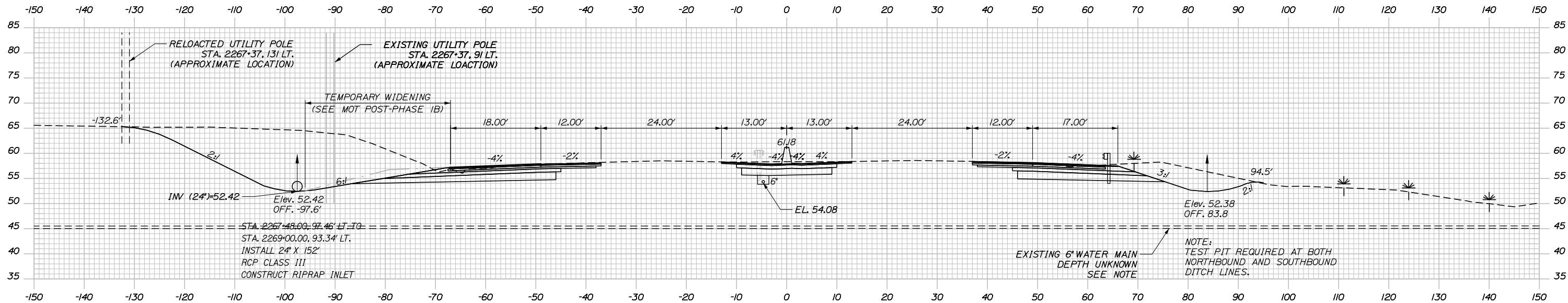
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2266+50 TO STA. d 2266+99

SHEET NUMBER: XS-116
 CONTRACT: 2020.03
 212 OF 310

Date: 2/25/2020

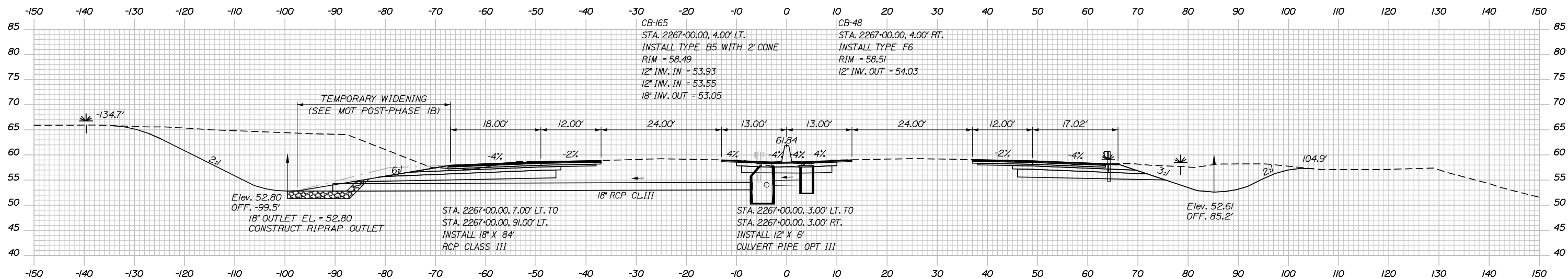
	SB	MEDIAN	NB
C	954.0 CY	80.3 CY	324.0 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



d 2267+50.00

STA. 2267+07.00, 4.00' LT. TO
 STA. 2269+98.00, 4.00' LT.
 INSTALL 6\"/>

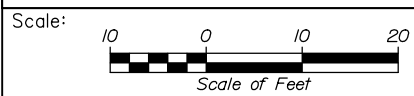
	SB	MEDIAN	NB
C	27.7 CY	1.9 CY	10.6 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



d 2267+00.00

CB-165 STA. 2267+00.00, 4.00' LT. INSTALL TYPE B5 WITH 2' CONE RIM = 58.49 12\"/>

STA. 2267+00.00, 7.00' LT. TO STA. 2267+00.00, 91.00' LT. INSTALL 18\"/>



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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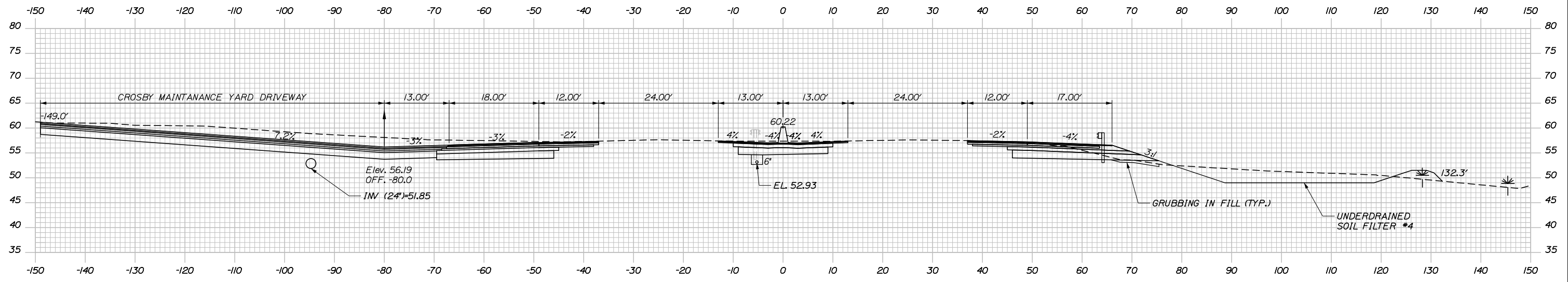
**THE GOLD STAR
 MEMORIAL HIGHWAY**

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2267+00 TO STA. d 2267+50
 SHEET NUMBER: XS-117
 CONTRACT: 2020.03
 213 OF 310

Filename: PAW1_Cross_Section_117.dgn

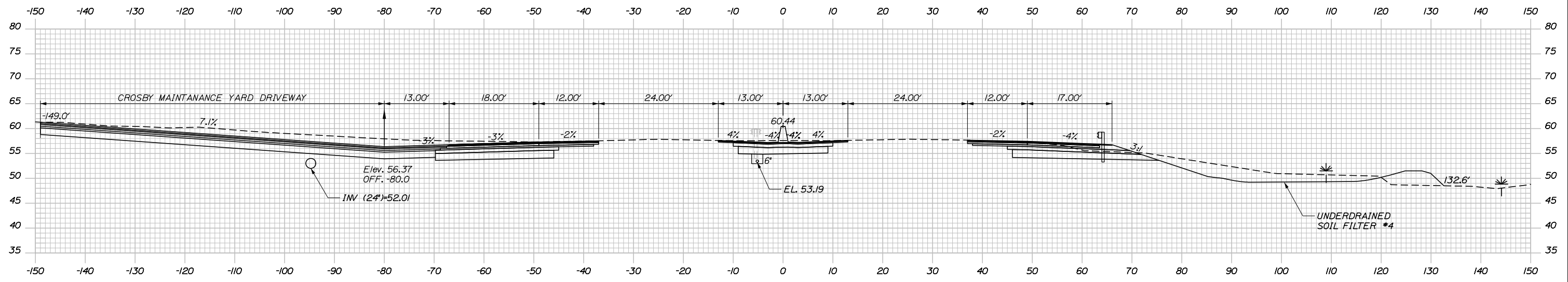
Date: 2/25/2020

	SB	MEDIAN	NB
C	189.2 CY	27.3 CY	33.6 CY
F	0 CY	0 CY	0.2 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	1.1 CY
M	0 CY	0 CY	0 CY



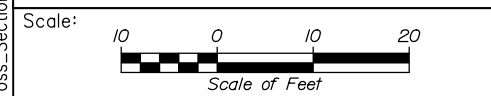
d 2268+14.65

	SB	MEDIAN	NB
C	781.8 CY	93.6 CY	206.6 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



d 2268+00.00

Filename: PAW1_Cross_Section_118.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

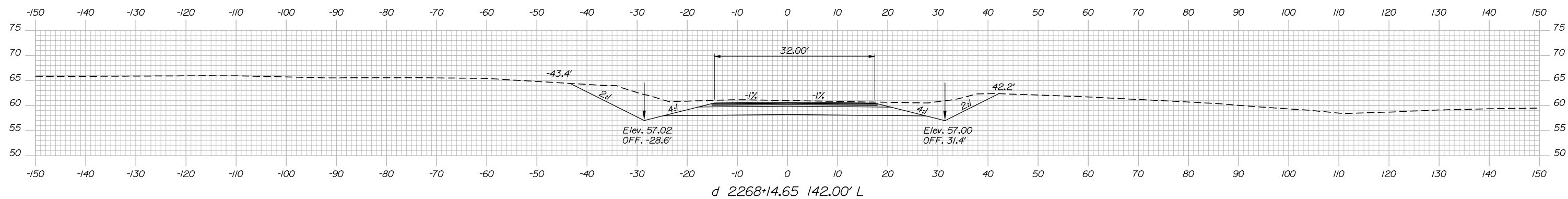
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2268+00 TO STA. d 2268+15

SHEET NUMBER: XS-118
 214 OF 310

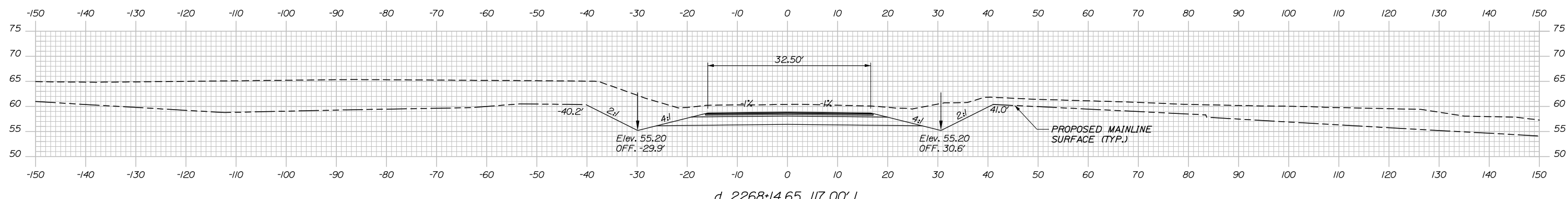
CONTRACT: 2020.03

Date: 2/25/2020

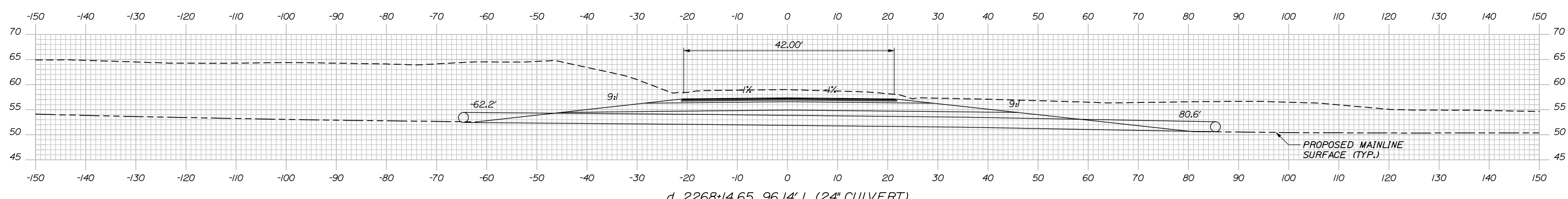
Filename: PAW1_Cross_Section_119.dgn



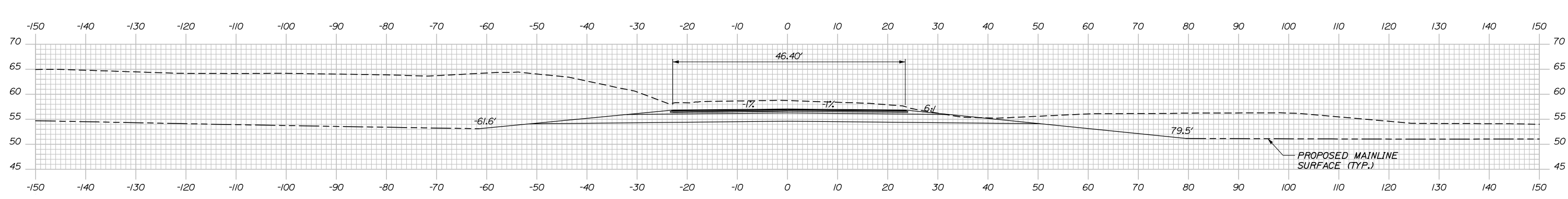
d 2268+14.65 142.00' L



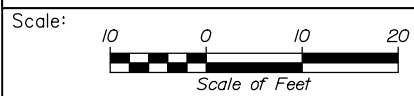
d 2268+14.65 117.00' L



d 2268+14.65 96.14' L (24" CULVERT)



d 2268+14.65 92.00' L



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE (CROSBY DRIVEWAY)
 STA. d 2268+14.65

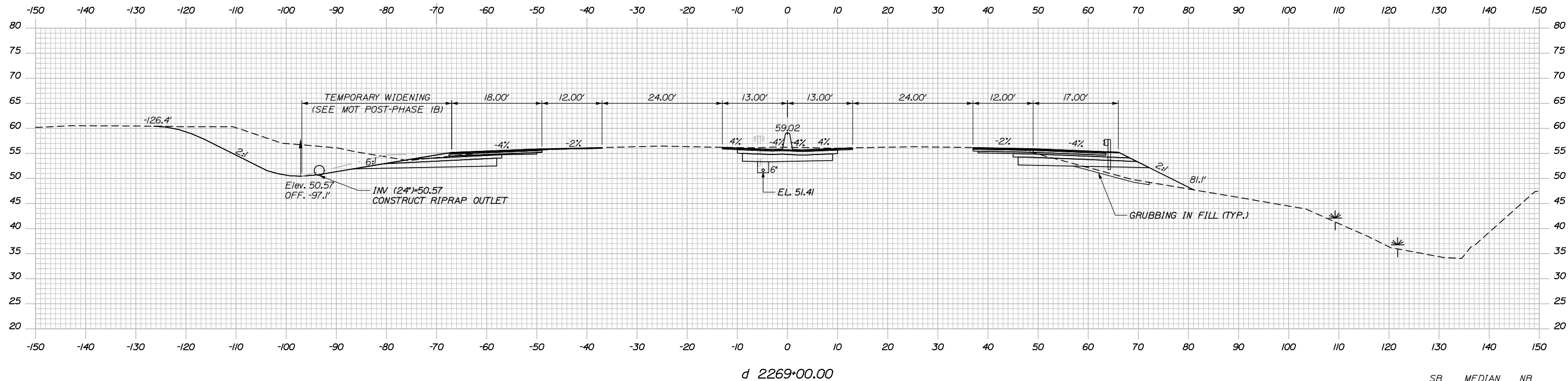
CONTRACT: 2020.03

SHEET NUMBER: XS-119

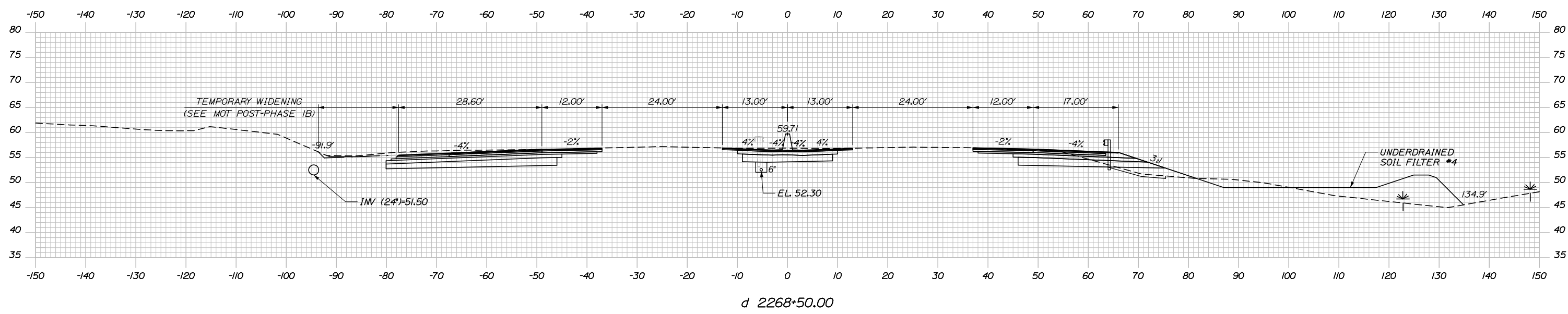
215 OF 310

Date: 2/25/2020

	SB	MEDIAN	NB
C	337.0 CY	94.6 CY	75.2 CY
F	0 CY	0 CY	45.0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	11.5 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	319.2 CY	66.2 CY	71.5 CY
F	0 CY	0 CY	10.1 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	6.2 CY
M	0 CY	0 CY	0 CY



Filename: PAW1_Cross_Section_120.dgn

Scale: 1" = 20'

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2268+50 TO STA. d 2269+00

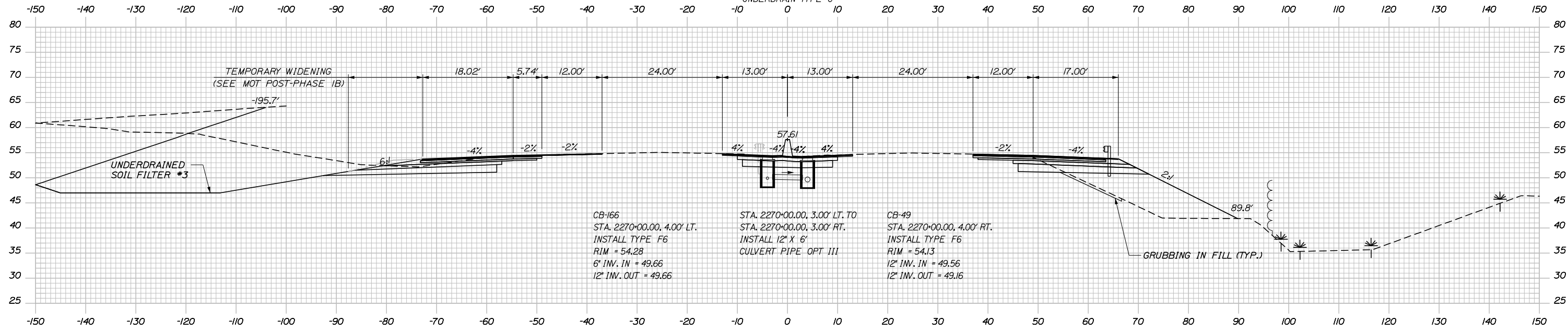
SHEET NUMBER: XS-120
 216 OF 310

CONTRACT: 2020.03

Date: 2/25/2020

	SB	MEDIAN	NB
C	= 116.8 CY	85.2 CY	46.3 CY
F	= 0 CY	0 CY	226.9 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	12.5 CY
M	= 0 CY	0 CY	0 CY

STA. 2270+02.00, 4.00' RT. TO
 STA. 2271+98.00, 4.00' RT.
 INSTALL 12" X 196'
 UNDERDRAIN TYPE C



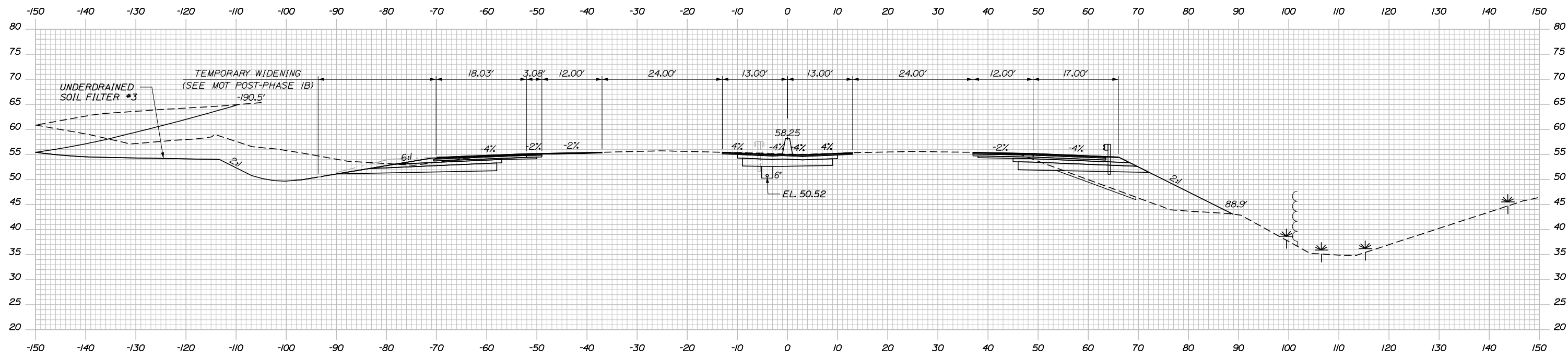
d 2270+00.00

	SB	MEDIAN	NB
C	= 279.2 CY	91.1 CY	48.6 CY
F	= 0 CY	0 CY	130.7 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	13.6 CY
M	= 0 CY	0 CY	0 CY

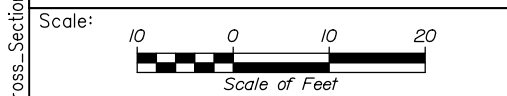
CB-166
 STA. 2270+00.00, 4.00' LT.
 INSTALL TYPE F6
 RIM = 54.28
 6" INV. IN = 49.66
 12" INV. OUT = 49.66

STA. 2270+00.00, 3.00' LT. TO
 STA. 2270+00.00, 3.00' RT.
 INSTALL 12" X 6"
 CULVERT PIPE OPT III

CB-49
 STA. 2270+00.00, 4.00' RT.
 INSTALL TYPE F6
 RIM = 54.13
 12" INV. IN = 49.56
 12" INV. OUT = 49.16



d 2269+50.00



Designed by:

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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

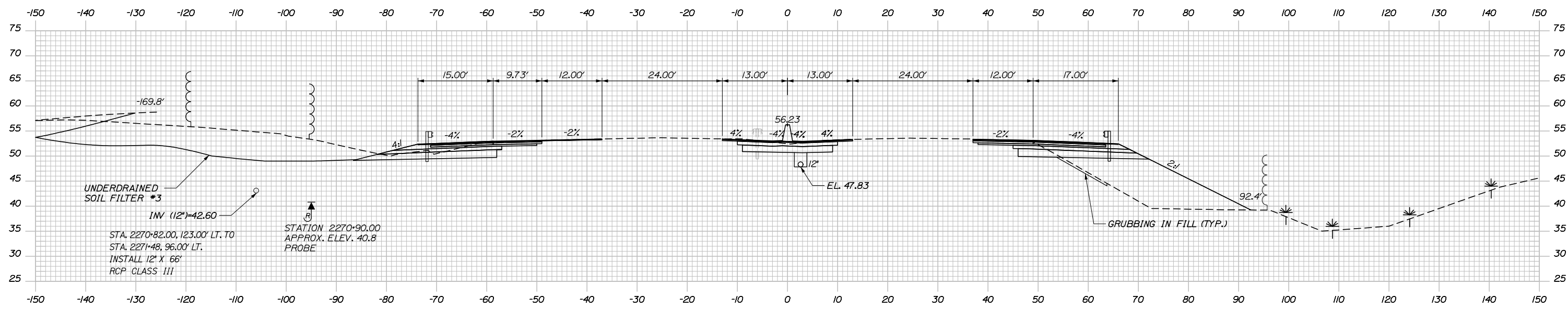
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2269+50 TO STA. d 2270+00

SHEET NUMBER: XS-121
 CONTRACT: 2020.03
 217 OF 310

Filename: PAW1_Cross_Section_121.dgn

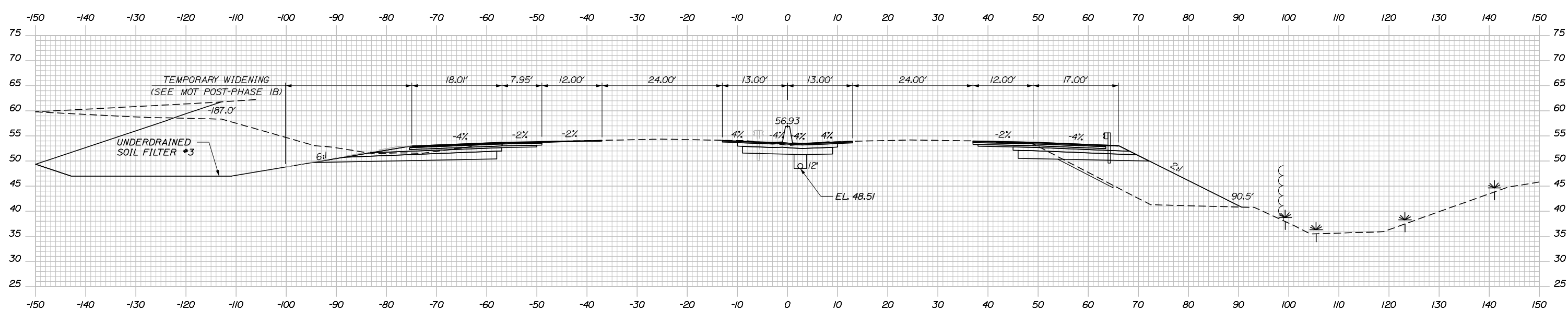
Date: 2/25/2020

	SB	MEDIAN	NB
C	111.6 CY	79.5 CY	48.5 CY
F	0 CY	0 CY	312.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	9.4 CY
M	0 CY	0 CY	0 CY



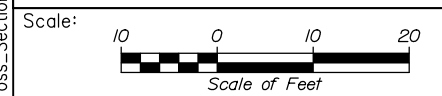
d 2271+00.00

	SB	MEDIAN	NB
C	124.3 CY	81.9 CY	49.5 CY
F	0 CY	0 CY	269.9 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	10.4 CY
M	0 CY	0 CY	0 CY



d 2270+50.00

Filename: PAW1_Cross_Section_122.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2270+50 TO STA. d 2271+00

CONTRACT: 2020.03

SHEET NUMBER: XS-122

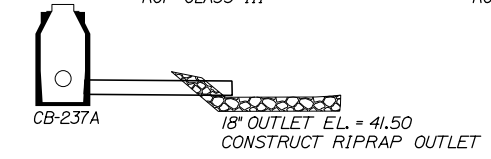
218 OF 310

Date: 2/25/2020

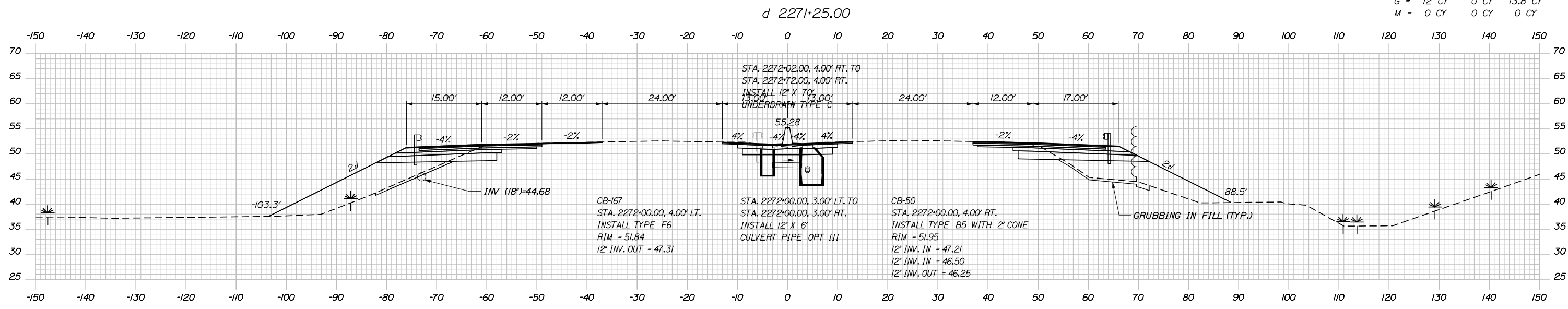
CB-237A
 STA. 2272+74.00, 63.00' RT.
 INSTALL TYPE BI
 RIM = 51.40
 18" INV. IN = 42.30
 18" INV. OUT = 42.05

STA. 2272+74.00, 63.00' RT. TO
 STA. 2272+25.00, 63.00' RT.
 INSTALL 18" X 49'
 RCP CLASS III

STA. 2272+25.00, 63.00' RT. TO
 STA. 2272+25.00, 79.00' RT.
 INSTALL 18" X 16'
 RCP CLASS III

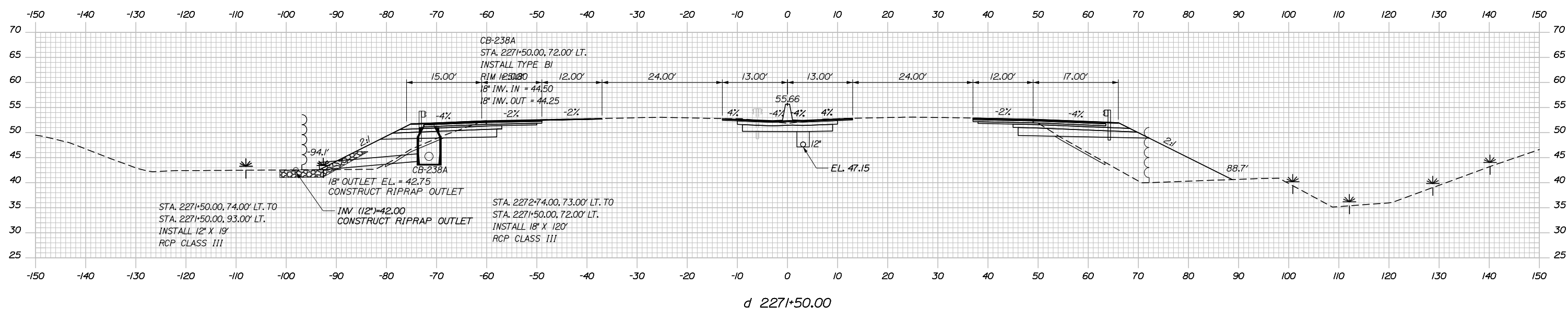


	SB	MEDIAN	NB
C	58.2 CY	77.3 CY	52.7 CY
F	178.2 CY	0 CY	246.7 CY
R	0 CY	0 CY	0 CY
G	12 CY	0 CY	13.8 CY
M	0 CY	0 CY	0 CY

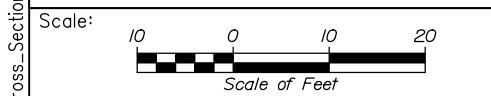


d 2272+00.00

	SB	MEDIAN	NB
C	79.2 CY	78.1 CY	49.6 CY
F	60.5 CY	0 CY	319.4 CY
R	0 CY	0 CY	0 CY
G	5.1 CY	0 CY	8.9 CY
M	0 CY	0 CY	0 CY



d 2271+50.00



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

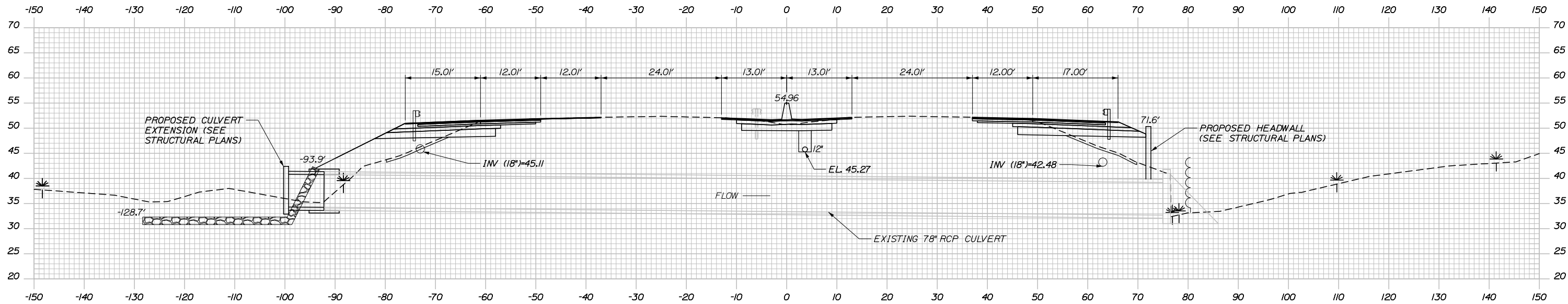
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2271+50 TO STA. d 2272+00

SHEET NUMBER: XS-123
 219 OF 310

CONTRACT: 2020.03

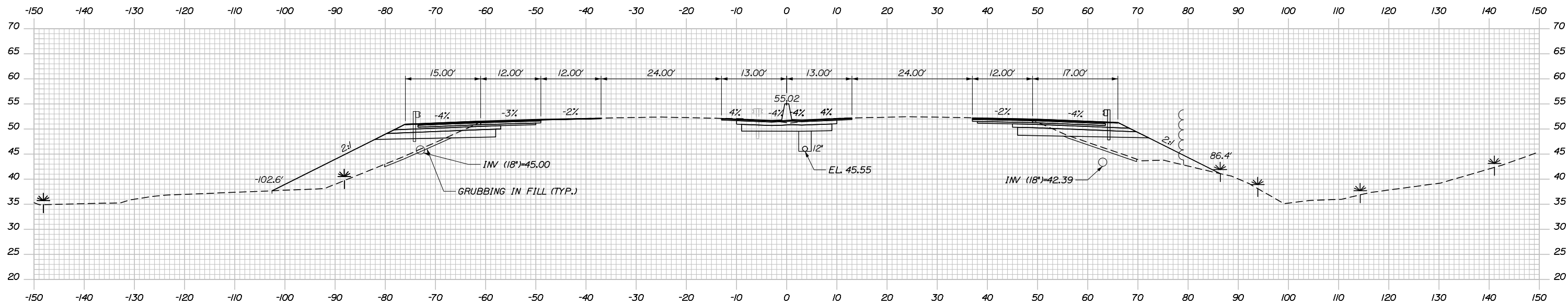
Filename: PAW1_Cross_Section_123.dgn

Date: 2/25/2020



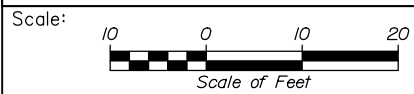
d 2272+69.49 (SKEWED)

	SB	MEDIAN	NB
C	54.6 CY	77.0 CY	54.4 CY
F	228.0 CY	0 CY	159.8 CY
R	0 CY	0 CY	0 CY
G	12.9 CY	0 CY	15.8 CY
M	0 CY	0 CY	0 CY



d 2272+50.00

Filename: PAW1_Cross_Section_124.dgn



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2272+50 TO STA. d 2272+69

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

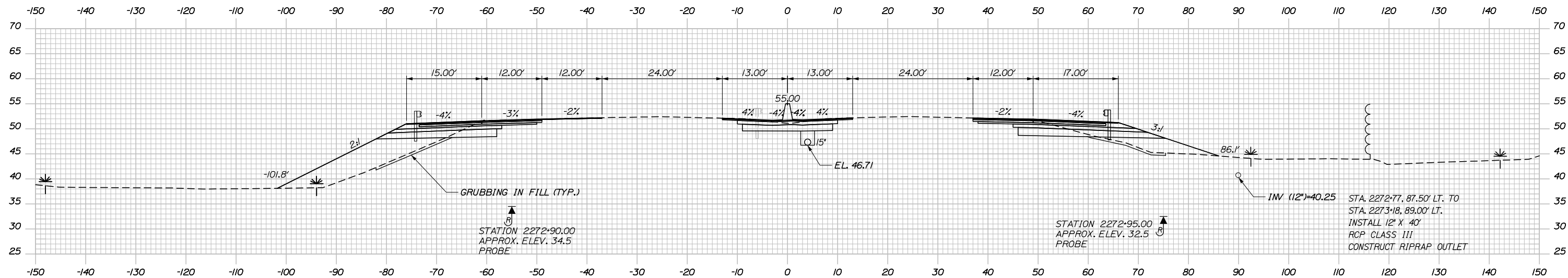
CONTRACT: 2020.03

SHEET NUMBER: XS-124

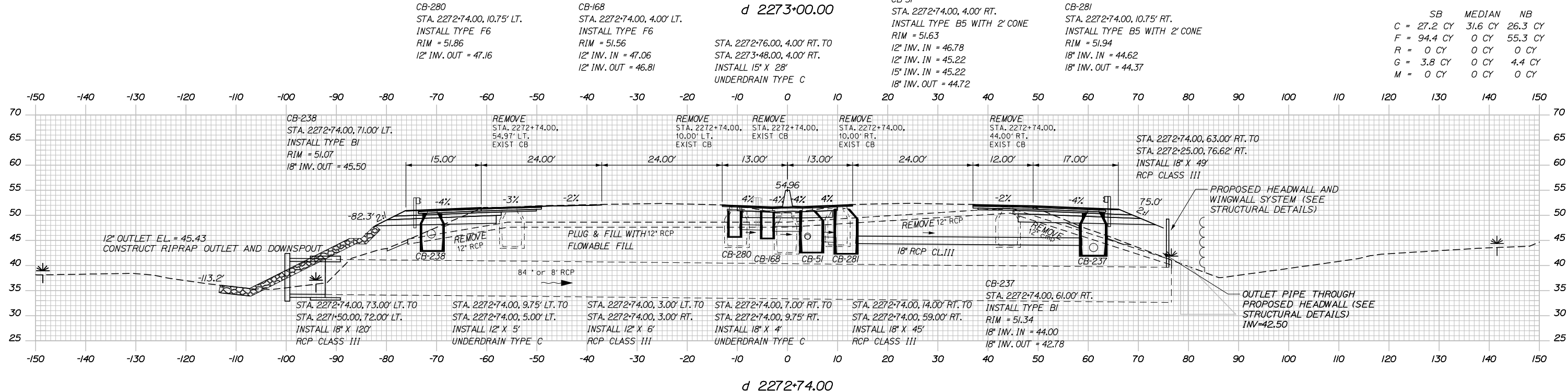
220 OF 310

Date: 2/25/2020

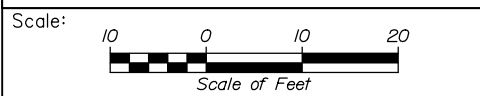
	SB	MEDIAN	NB
C	30.3 CY	33.8 CY	32.8 CY
F	99.9 CY	0 CY	45.2 CY
R	0 CY	0 CY	0 CY
G	4.2 CY	0 CY	4.9 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	27.2 CY	31.6 CY	26.3 CY
F	94.4 CY	0 CY	55.3 CY
R	0 CY	0 CY	0 CY
G	3.8 CY	0 CY	4.4 CY
M	0 CY	0 CY	0 CY



Filename: PAW1_Cross_Section_125.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

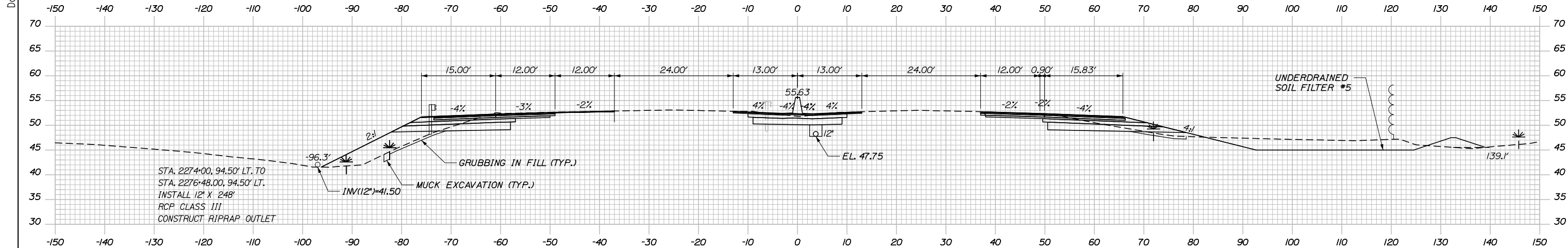
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2272+74 TO STA. d 2273+00

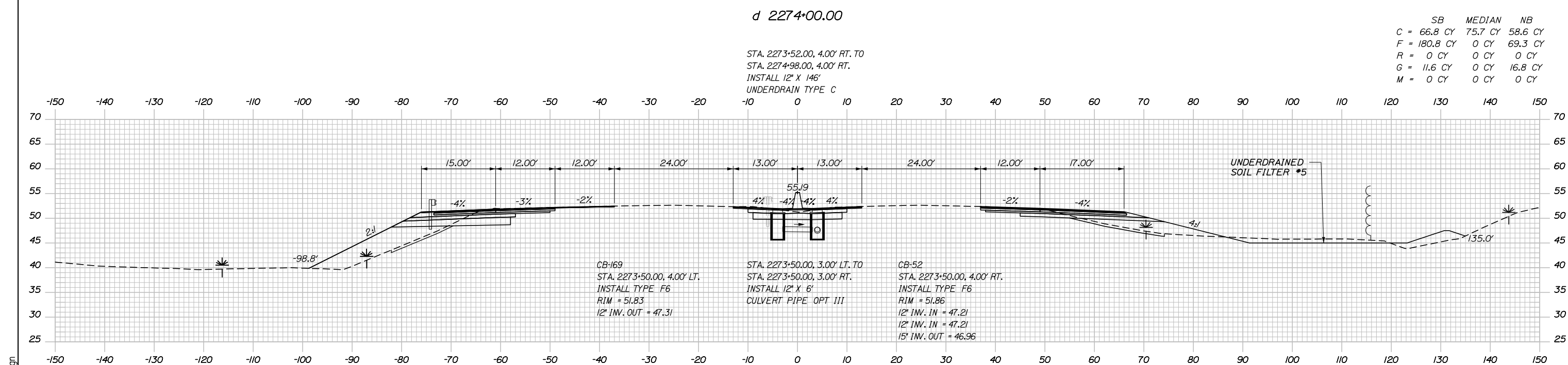
SHEET NUMBER: XS-125
 221 OF 310

CONTRACT: 2020.03

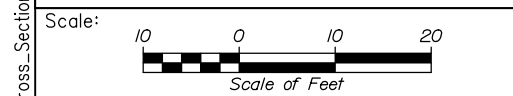
Date: 2/25/2020



	SB	MEDIAN	NB
C	76.4 CY	76.9 CY	64.3 CY
F	125.9 CY	0 CY	40.7 CY
R	0 CY	0 CY	0 CY
G	10.5 CY	0 CY	14.5 CY
M	1.6 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	66.8 CY	75.7 CY	58.6 CY
F	180.8 CY	0 CY	69.3 CY
R	0 CY	0 CY	0 CY
G	11.6 CY	0 CY	16.8 CY
M	0 CY	0 CY	0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

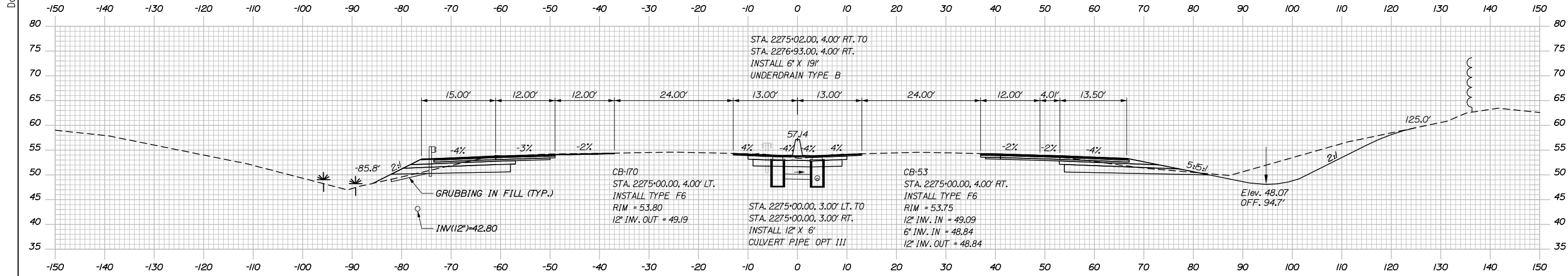
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2273+50 TO STA. d 2274+00

SHEET NUMBER: XS-126
 222 OF 310

CONTRACT: 2020.03

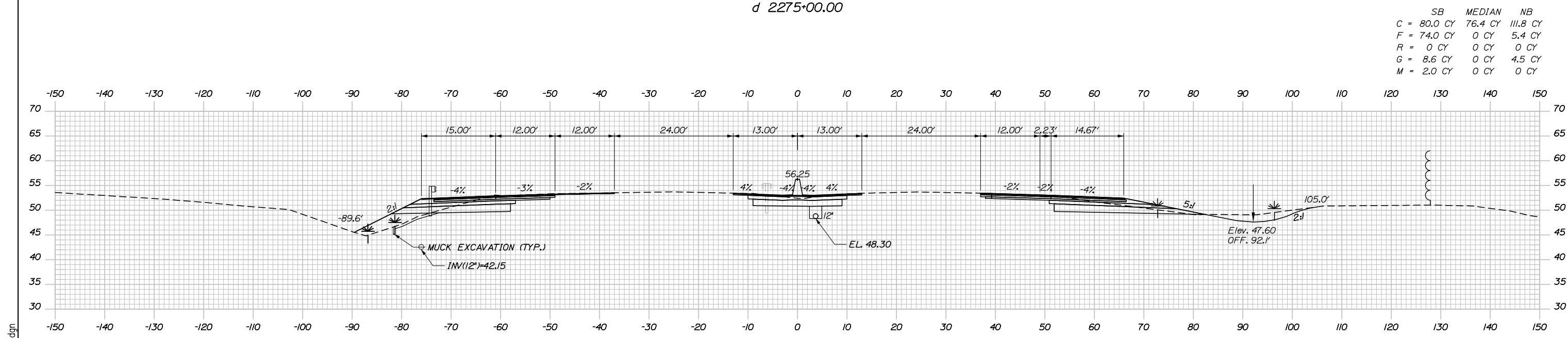
Filename: PAW1_Cross_Section_126.dgn

Date: 2/25/2020



d 2275+00.00

	SB	MEDIAN	NB
C	87.2 CY	77.2 CY	214.6 CY
F	27.2 CY	0 CY	0.2 CY
R	0 CY	0 CY	0 CY
G	6.6 CY	0 CY	0 CY
M	0.5 CY	0 CY	0 CY



d 2274+50.00

	SB	MEDIAN	NB
C	80.0 CY	76.4 CY	111.8 CY
F	74.0 CY	0 CY	5.4 CY
R	0 CY	0 CY	0 CY
G	8.6 CY	0 CY	4.5 CY
M	2.0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2274+50 TO STA. d 2275+00

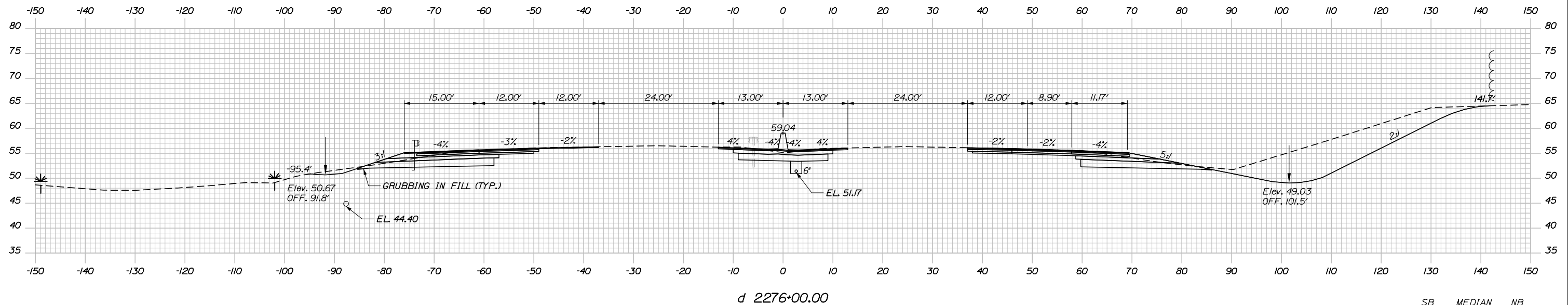
SHEET NUMBER: XS-127
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CONTRACT: 2020.03

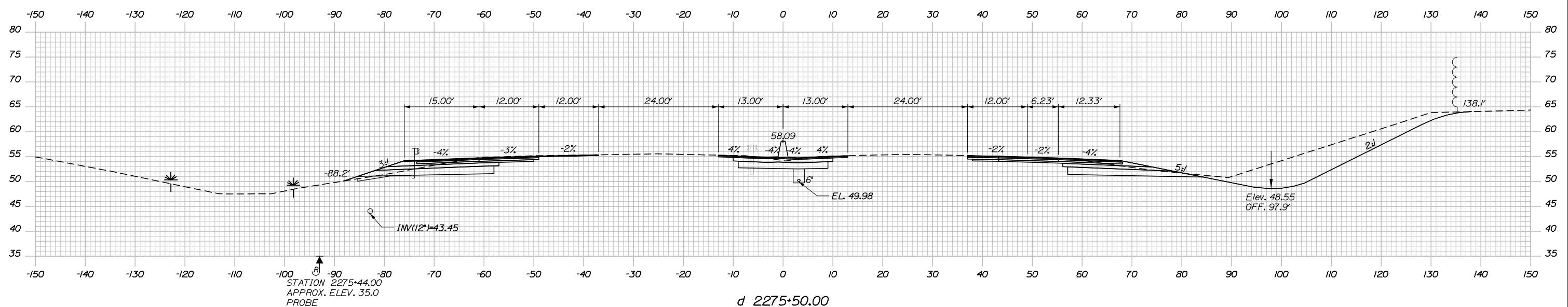
Filename: PAW1_Cross_Section_127.dgn

Date: 2/25/2020

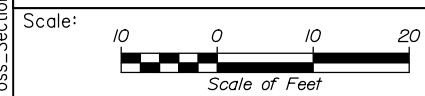
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C	119.2 CY	78.5 CY	474.1 CY
F	1.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	2.8 CY	0 CY	0.1 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	98.9 CY	78.5 CY	359.4 CY
F	5.5 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	5.4 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



Filename: PAW1_Cross_Section_128.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
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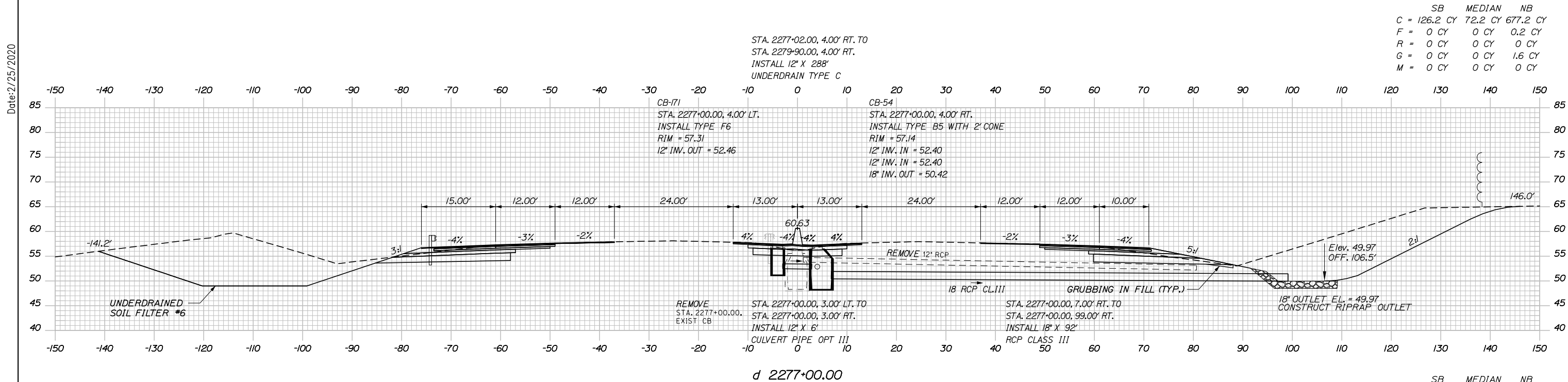
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2275+50 TO STA. d 2276+00

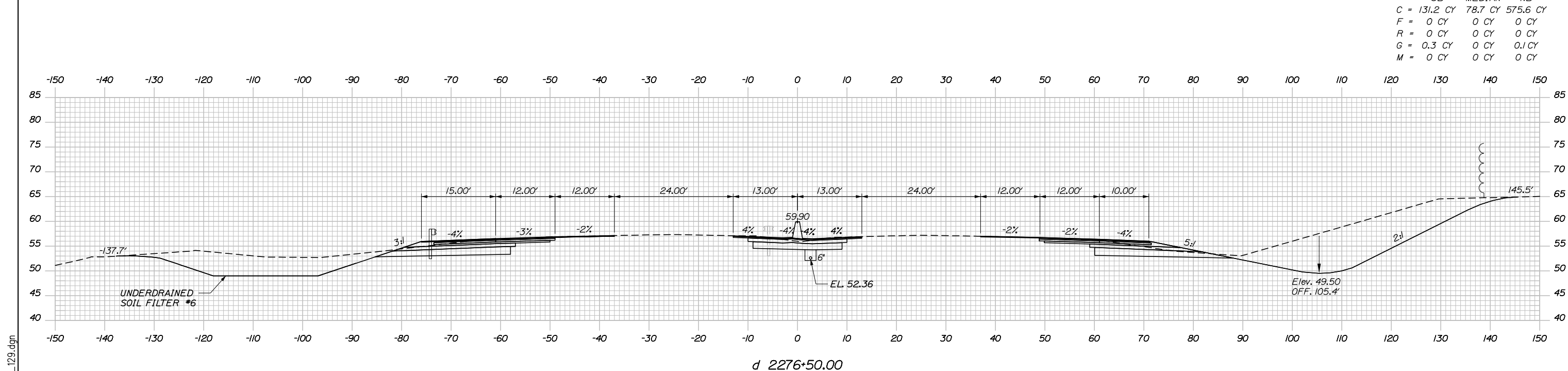
SHEET NUMBER: XS-128
224 OF 310

CONTRACT: 2020.03

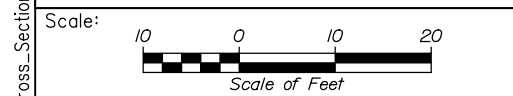
Date: 2/25/2020



	SB	MEDIAN	NB
C	126.2 CY	72.2 CY	677.2 CY
F	0 CY	0 CY	0.2 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	1.6 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	131.2 CY	78.7 CY	575.6 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0.3 CY	0 CY	0.1 CY
M	0 CY	0 CY	0 CY



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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2276+50 TO STA. d 2277+00

SHEET NUMBER: XS-129
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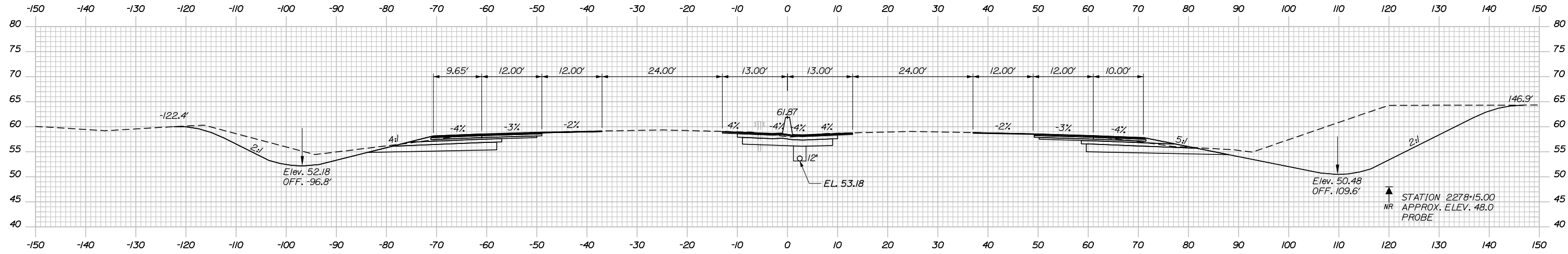
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_129.dgn

Date: 2/25/2020

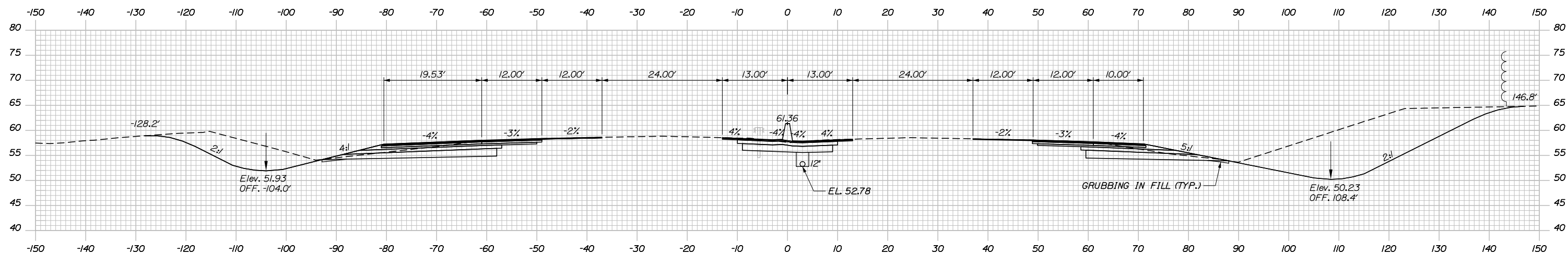
Filename: PAW1_Cross_Section_130.dgn

	SB	MEDIAN	NB
C	195.8 CY	81.5 CY	734.4 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	1.0 CY	0 CY	0.8 CY
M	0 CY	0 CY	0 CY

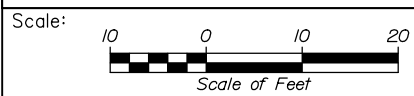


d 2278+00.00

	SB	MEDIAN	NB
C	125.4 CY	74.4 CY	713.4 CY
F	0 CY	0 CY	0.2 CY
R	0 CY	0 CY	0 CY
G	1.0 CY	0 CY	2.4 CY
M	0 CY	0 CY	0 CY



d 2277+50.00



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Westbrook, ME 04092
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THE GOLD STAR
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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2277+50 TO STA. d 2278+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	JS	2/20	Checked
Drawn	GW	2/20	In Charge of

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

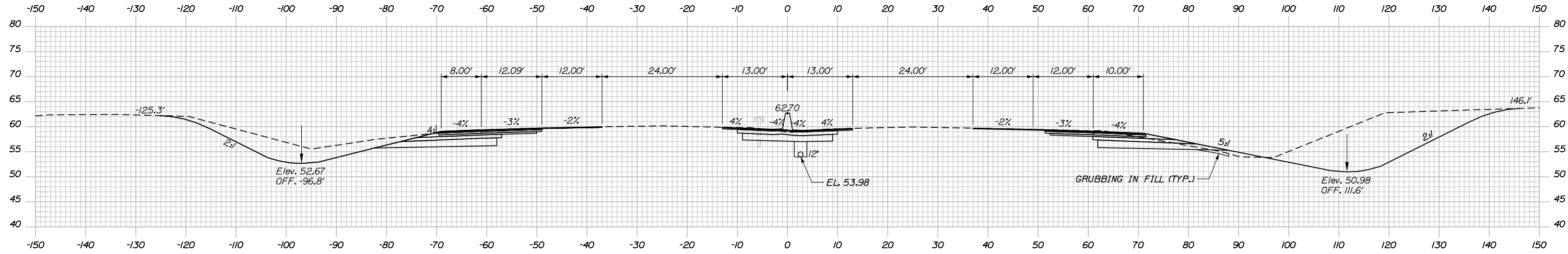
SHEET NUMBER: XS-130

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Date: 2/25/2020

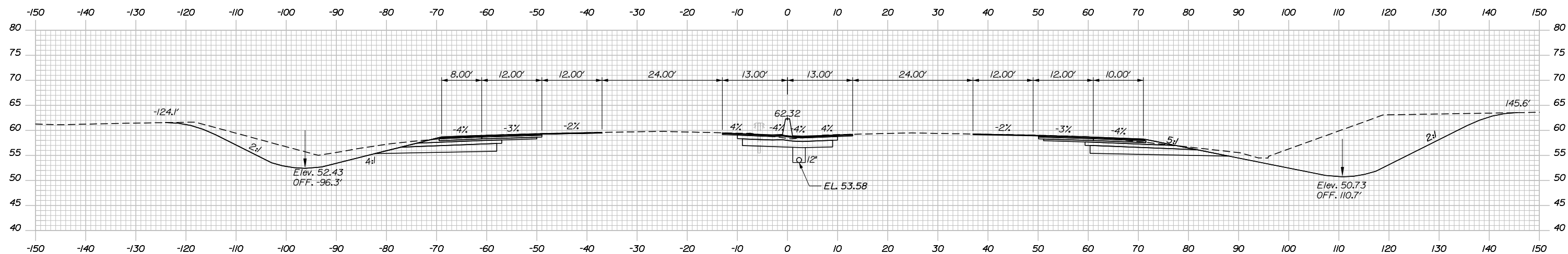
Filename: PAW1_Cross_Section_131.dgn

	SB	MEDIAN	NB
C	314.5 CY	80.1 CY	627.5 CY
F	0 CY	0 CY	4.5 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	2.2 CY
M	0 CY	0 CY	0 CY

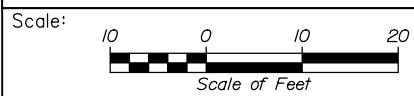


d 2279+00.00

	SB	MEDIAN	NB
C	285.8 CY	79.7 CY	718.5 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



d 2278+50.00



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	By	Date	Checked	By	Date
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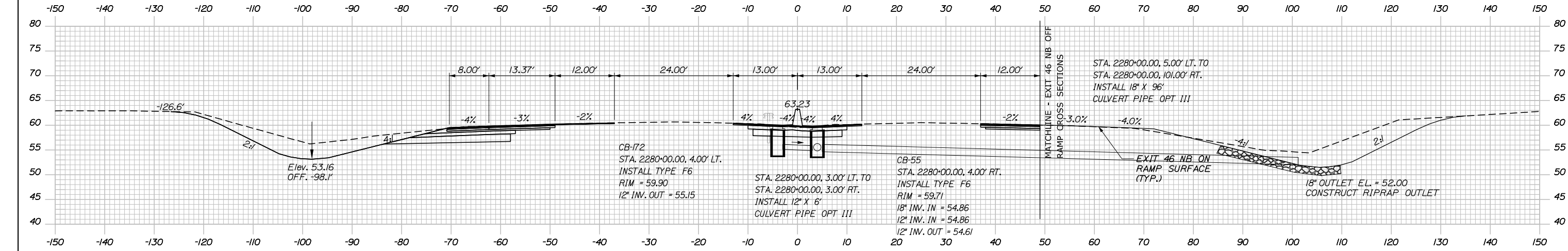
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2278+50 TO STA. d 2279+00

CONTRACT: 2020.03

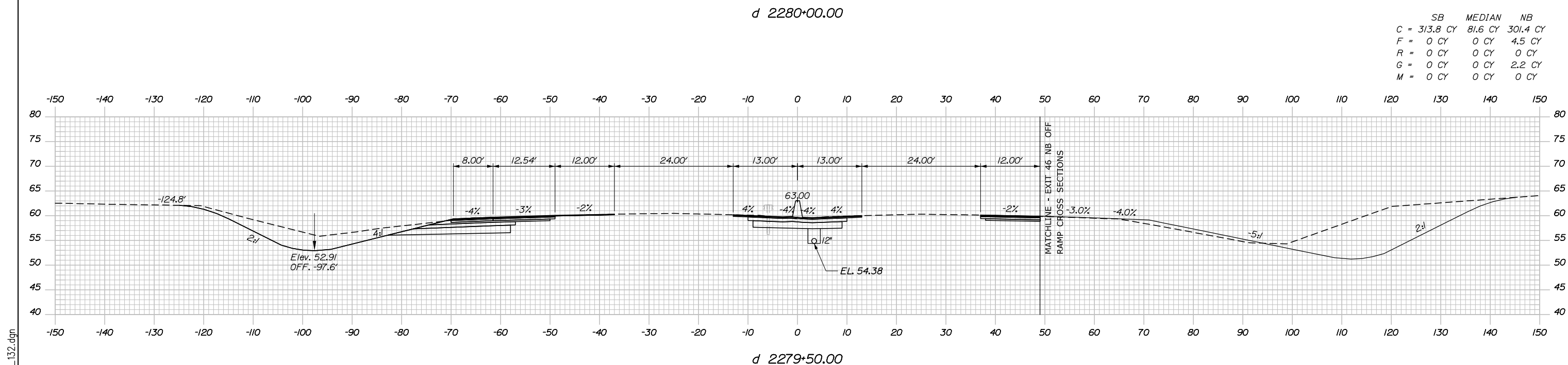
SHEET NUMBER: XS-131

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Date: 2/25/2020



	SB	MEDIAN	NB
C	316.7 CY	82.0 CY	22.4 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	313.8 CY	81.6 CY	301.4 CY
F	0 CY	0 CY	4.5 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	2.2 CY
M	0 CY	0 CY	0 CY

Scale:

No.	Revision	By	Date

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

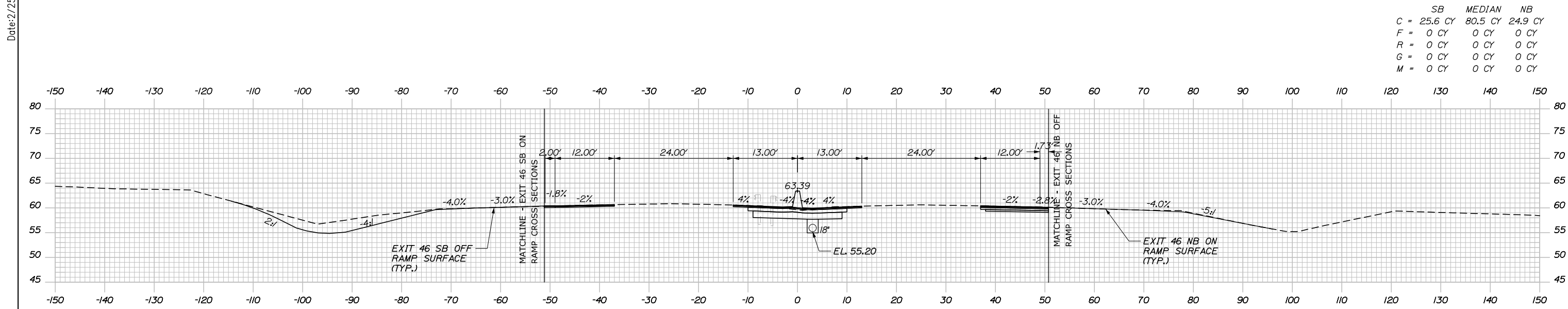
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2279+50 TO STA. d 2280+00

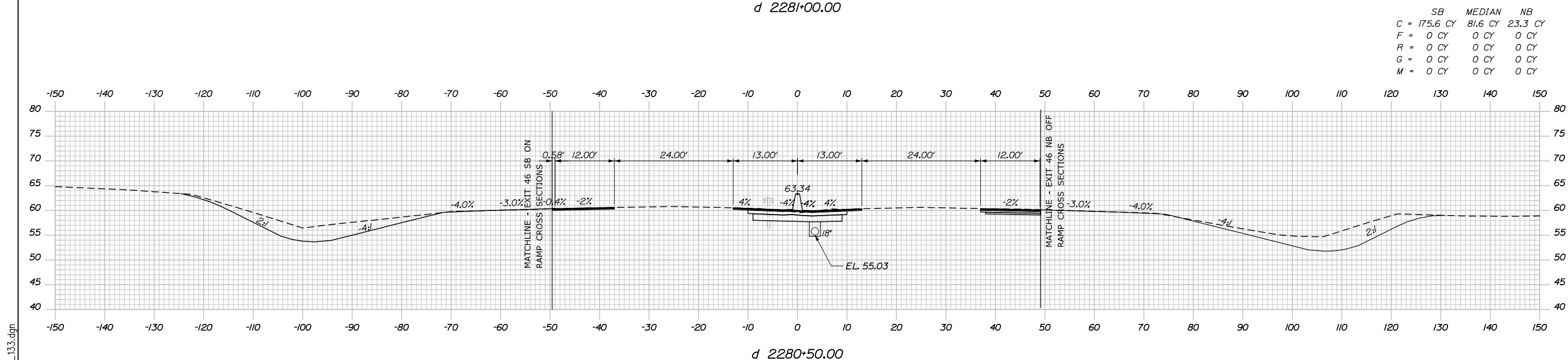
SHEET NUMBER: XS-132
 CONTRACT: 2020.03
 228 OF 310

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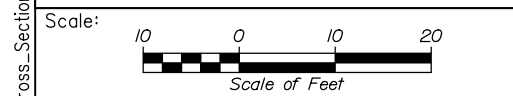
Date: 2/25/2020



	SB	MEDIAN	NB
C	= 25.6 CY	80.5 CY	24.9 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	= 175.6 CY	81.6 CY	23.3 CY
F	= 0 CY	0 CY	0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	0 CY
M	= 0 CY	0 CY	0 CY



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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

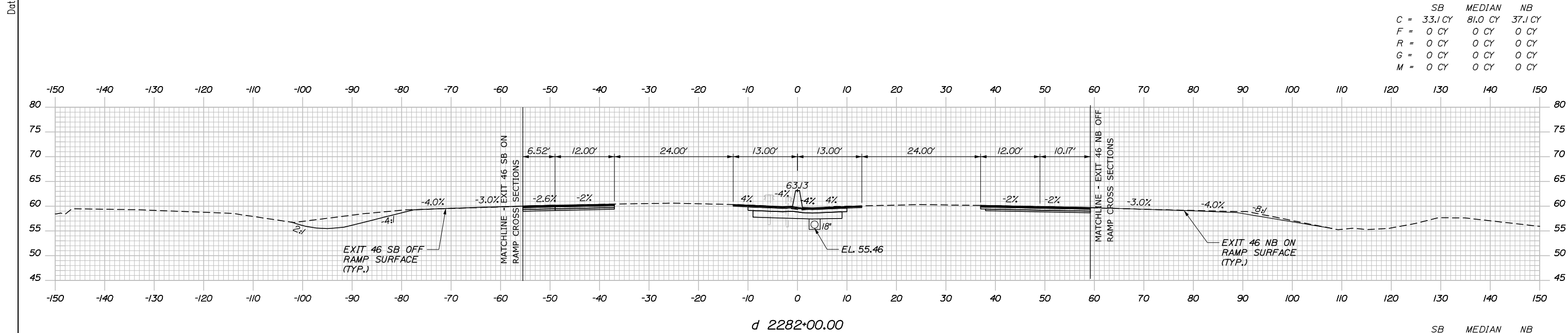
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2280+50 TO STA. d 2281+00

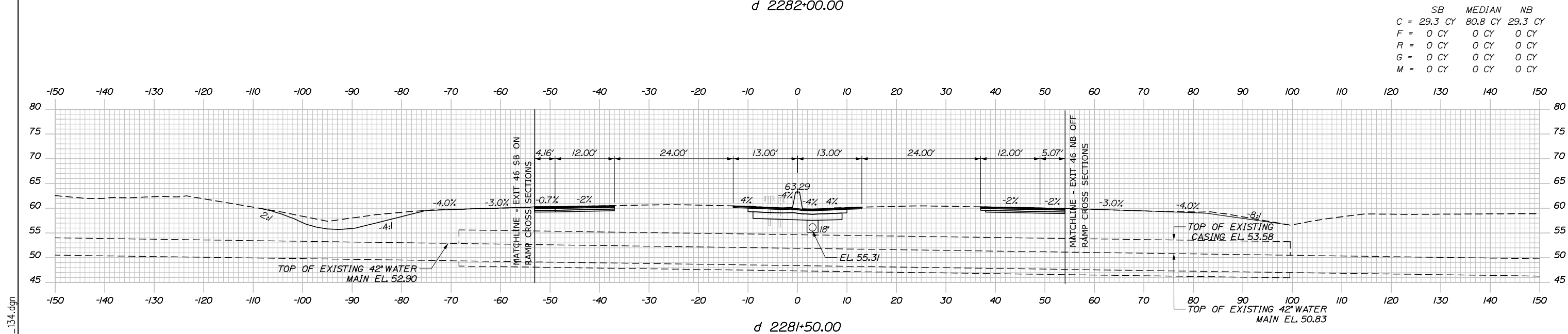
SHEET NUMBER: XS-133
 CONTRACT: 2020.03
 229 OF 310

Filename: PAW1_Cross_Section_133.dgn

Date: 2/25/2020

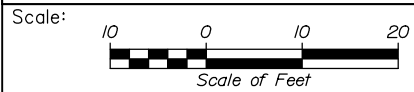


	SB	MEDIAN	NB
C	33.1 CY	81.0 CY	37.1 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	29.3 CY	80.8 CY	29.3 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_134.dgn



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PORTLAND AREA WIDENING &
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 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2281+50 TO STA. d 2282+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

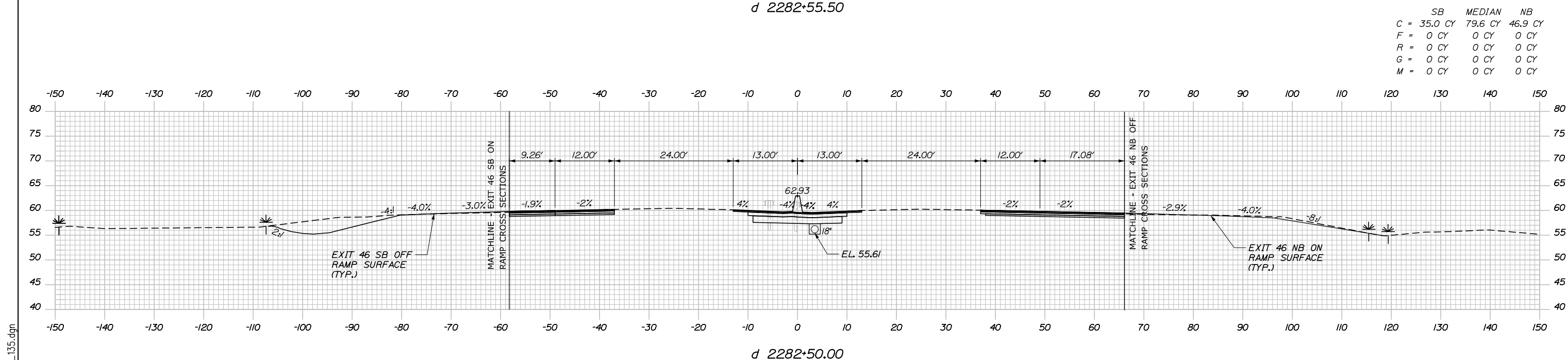
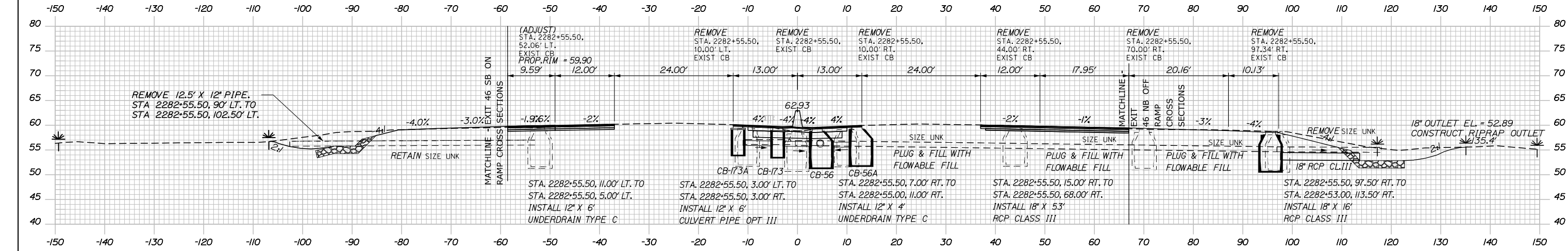
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

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Date: 2/25/2020



CB-173A
STA. 2282+55.50, 10.75' LT.
INSTALL TYPE F6
RIM = 60.03
12" INV. OUT = 55.91

CB-173
STA. 2282+55.50, 4.00' LT.
INSTALL TYPE F6
RIM = 59.59
12" INV. IN = 55.81
12" INV. OUT = 55.71

CB-56
STA. 2282+55.50, 4.00' RT.
INSTALL TYPE B5 WITH 2' CONE
RIM = 59.44
12" INV. IN = 55.61
15" INV. IN = 55.86
18" INV. IN = 55.61
18" INV. OUT = 55.61

CB-56A
STA. 2282+55.50, 10.75' RT.
INSTALL TYPE B5 WITH 2' CONE
RIM = 59.89
18" INV. OUT = 55.71

CB-300
STA. 2282+55.50, 98.00' RT.
INSTALL TYPE B1
RIM = 58.75
18" INV. OUT = 52.96

	SB	MEDIAN	NB
C	3.8 CY	8.3 CY	13.7 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

	SB	MEDIAN	NB
C	35.0 CY	79.6 CY	46.9 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

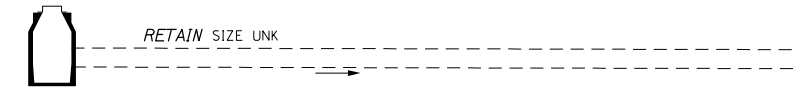
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2282+50 TO STA. d 2282+55

SHEET NUMBER: XS-135
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CONTRACT: 2020.03

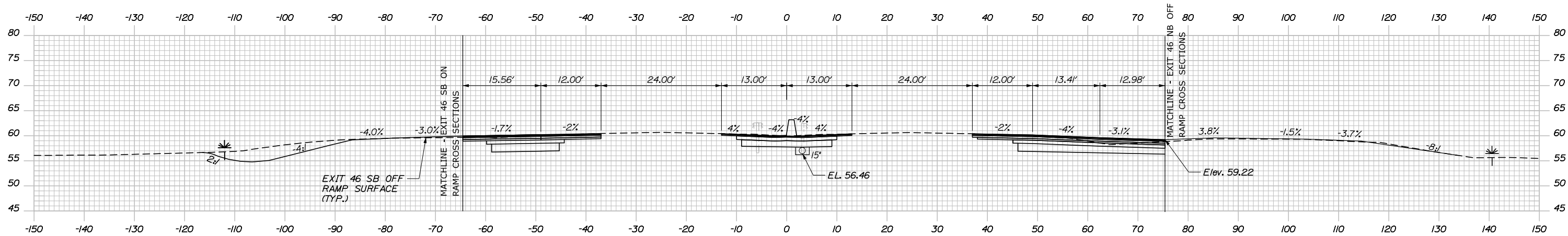
Date: 2/25/2020

CB-295
 STA. 2283+83.00, 70' RT.
 INSTALL TYPE BI
 RIM = 59.65
 INV. OUT = EXIST



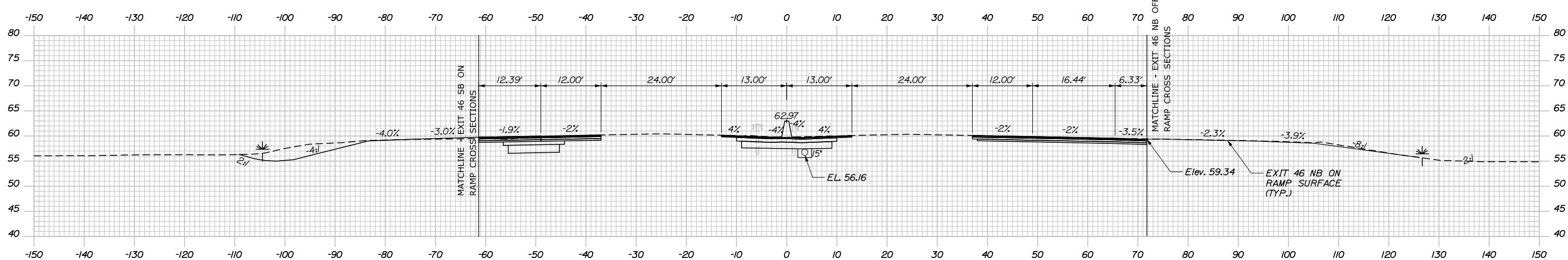
	SB	MEDIAN	NB
C	91.9 CY	86.8 CY	108.1 CY
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R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

d 2283+83.00



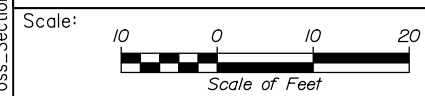
d 2283+50.00

	SB	MEDIAN	NB
C	51.9 CY	70.4 CY	117.4 CY
F	0 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



d 2283+00.00

Filename: PAW1_Cross_Section_136.dgn



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No.	Revision	By	Date

	By	Date		By	Date
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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2283+00 TO STA. d 2283+50

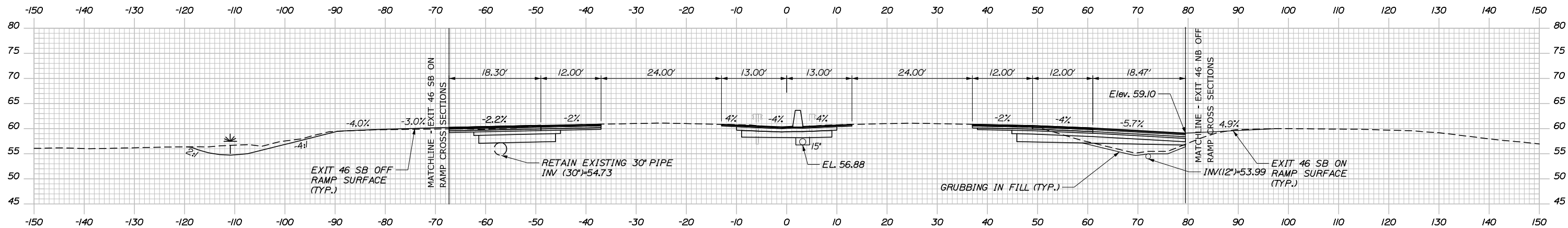
SHEET NUMBER: XS-136
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CONTRACT: 2020.03

Date: 2/25/2020

Filename: PAW1_Cross_Section_137.dgn

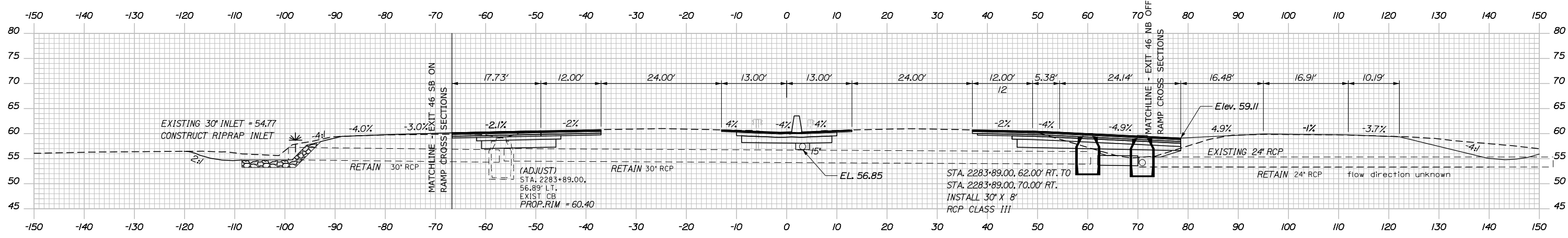
	SB	MEDIAN	NB
C	= 23.5 CY	17.9 CY	26.2 CY
F	= 0 CY	0 CY	9.0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	2.6 CY
M	= 0 CY	0 CY	0 CY



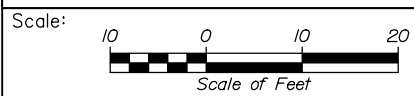
d 2284+00.00

CB-SC6 STA. 2283+89.00, 54.25' RT. INSTALL TYPE BI RIM = 60.02 30" INV. IN (EXIST.) = 53.9 30" INV. OUT = 53.67	CB-295A STA. 2283+89.00, 70.87' RT. INSTALL TYPE BI RIM = 59.65 12" INV. IN = 53.58 30" INV. IN = 53.58 24" INV. OUT (EXIST.) = 53.31	STA. 2283+91.00, 70.87' RT. TO STA. 2284+51.00, 80.51' RT. INSTALL 12" X 60" RCP CLASS III
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	SB	MEDIAN	NB
C	= 79.5 CY	65.5 CY	124.2 CY
F	= 0 CY	0 CY	18.0 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	2.3 CY
M	= 0 CY	0 CY	0 CY



d 2283+89.00



Designed by:

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No.	Revision	By	Date

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**THE GOLD STAR
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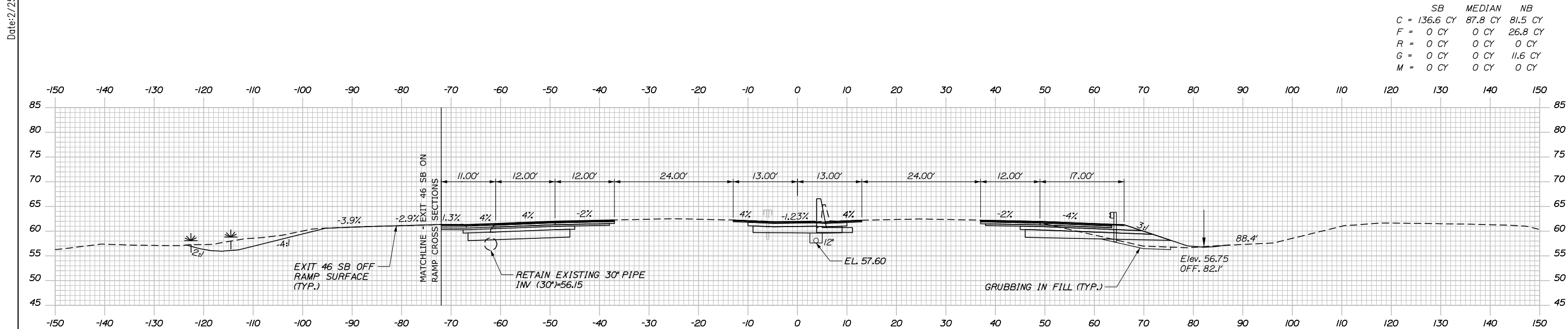
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2283+89 TO STA. d 2284+00

CONTRACT: 2020.03

SHEET NUMBER: XS-137

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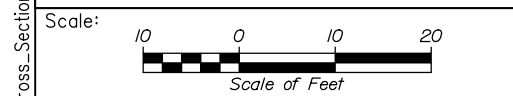
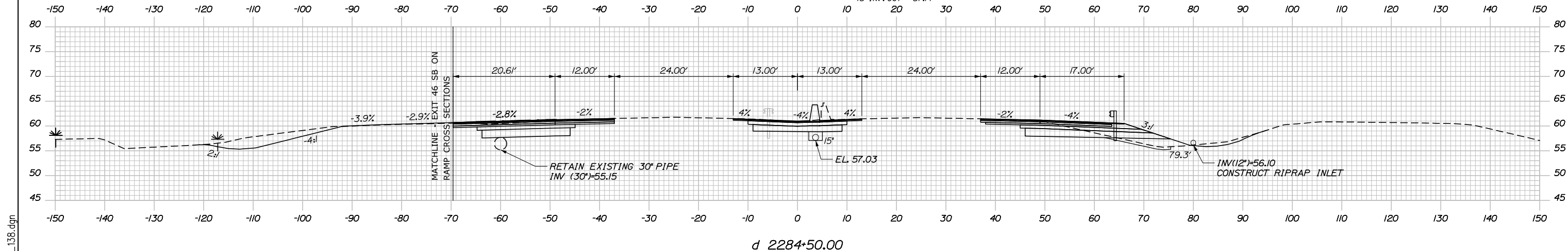
Date: 2/25/2020



	SB	MEDIAN	NB
C	136.6 CY	87.8 CY	81.5 CY
F	0 CY	0 CY	26.8 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	11.6 CY
M	0 CY	0 CY	0 CY

STA. 2284+88.51, 4.00' LT. TO STA. 2284+88.51, 8.00' RT. INSTALL 12" X 12" CULVERT PIPE OPT III
 CB-174 STA. 2284+88.51, 4.00' LT. INSTALL TYPE F6 RIM = 61.56 12" INV. OUT = 57.49
 d 2285+00.00
 CB-57 STA. 2284+88.51, 9.00' RT. INSTALL TYPE F6 RIM = 61.49 12" INV. IN = 57.39 15" INV. OUT = 57.14
 STA. 2284+90.51, 9.00' RT. TO STA. 2288+53.72, 4.00' RT. INSTALL 12" X 36" UNDERDRAIN TYPE C

	SB	MEDIAN	NB
C	117.6 CY	82.7 CY	78.7 CY
F	0 CY	0 CY	30.8 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	14.5 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2284+50 TO STA. d 2285+00

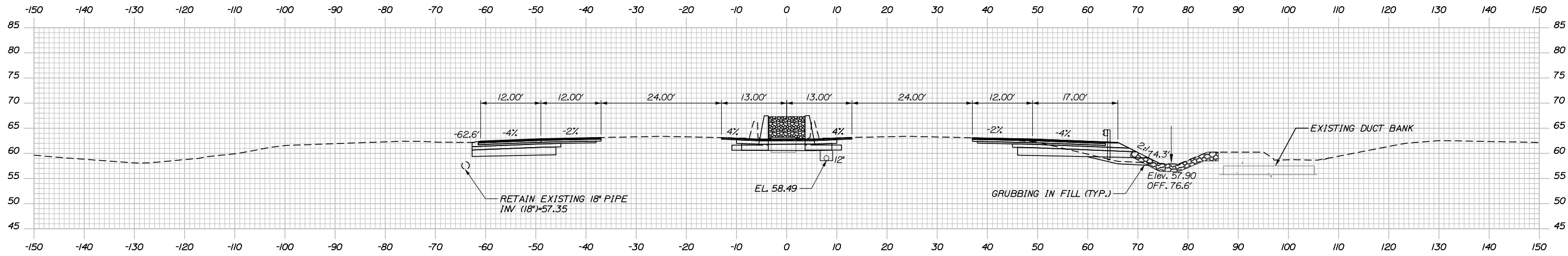
SHEET NUMBER: XS-138
 234 OF 310

CONTRACT: 2020.03

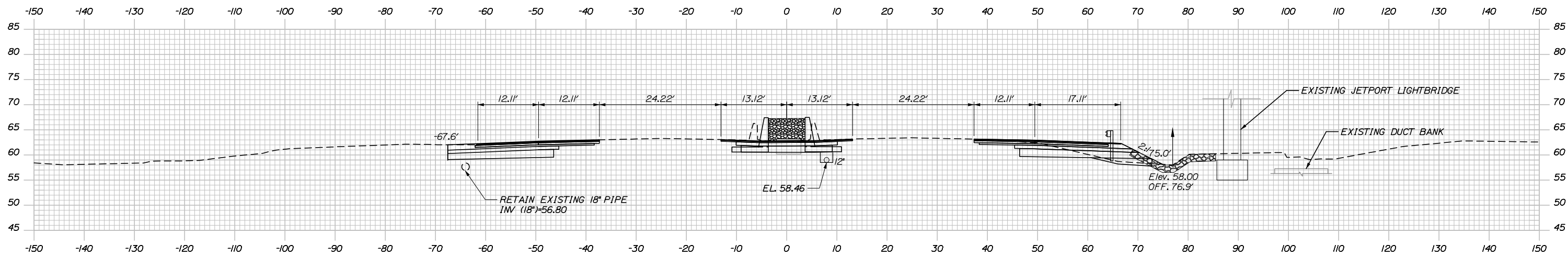
Filename: PAW1_Cross_Section_138.dgn

Date: 2/25/2020

	SB	MEDIAN	NB
C	= 127.4 CY	4.0 CY	106.8 CY
F	= 0 CY	0 CY	27.1 CY
R	= 0 CY	0 CY	0 CY
G	= 0 CY	0 CY	15.4 CY
M	= 0 CY	0 CY	0 CY

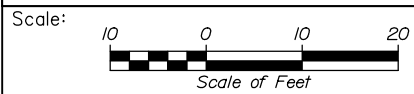


d 2285+50.00



d 2285+47.96 (SKEWED)

Filename: PAW1_Cross_Section_139.dgn



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 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2285+48 TO STA. d 2285+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

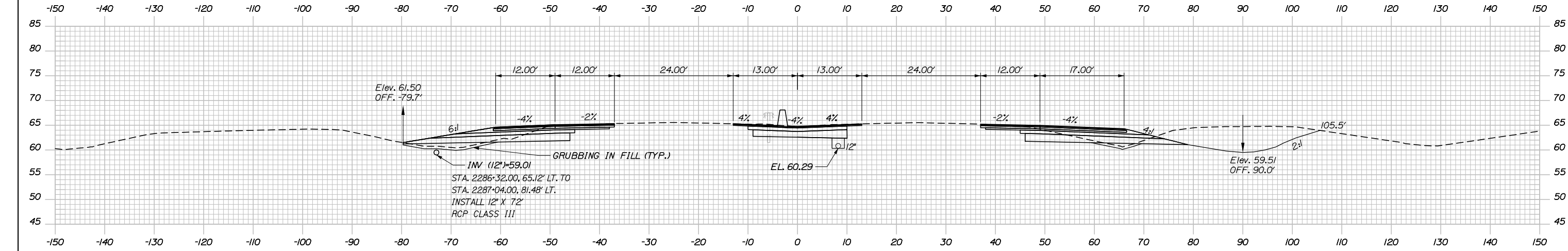
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

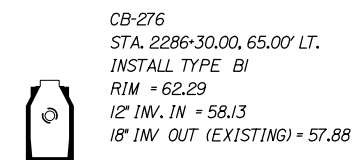
SHEET NUMBER: XS-139

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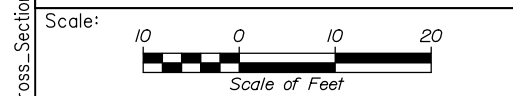
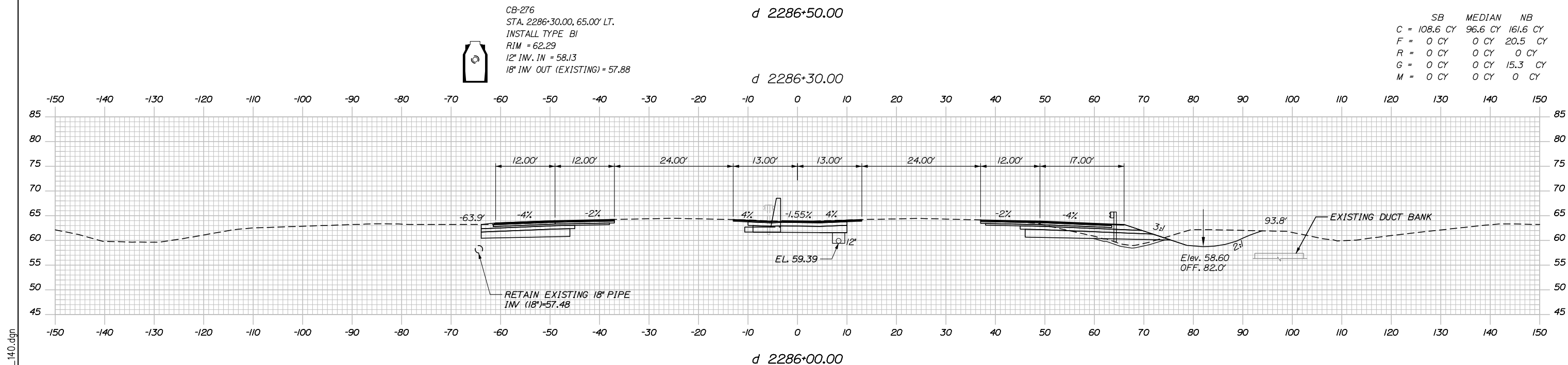
Date: 2/25/2020



	SB	MEDIAN	NB
C	90.6 CY	90.2 CY	240.6 CY
F	8.2 CY	0 CY	9.1 CY
R	0 CY	0 CY	0 CY
G	8.1 CY	0 CY	9.7 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	108.6 CY	96.6 CY	161.6 CY
F	0 CY	0 CY	20.5 CY
R	0 CY	0 CY	0 CY
G	0 CY	0 CY	15.3 CY
M	0 CY	0 CY	0 CY



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	By	Date	By	Date	
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 TEL (207) 774-5155
 FAX (207) 228-0909

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2286+00 TO STA. d 2286+50

SHEET NUMBER: XS-140
 236 OF 310

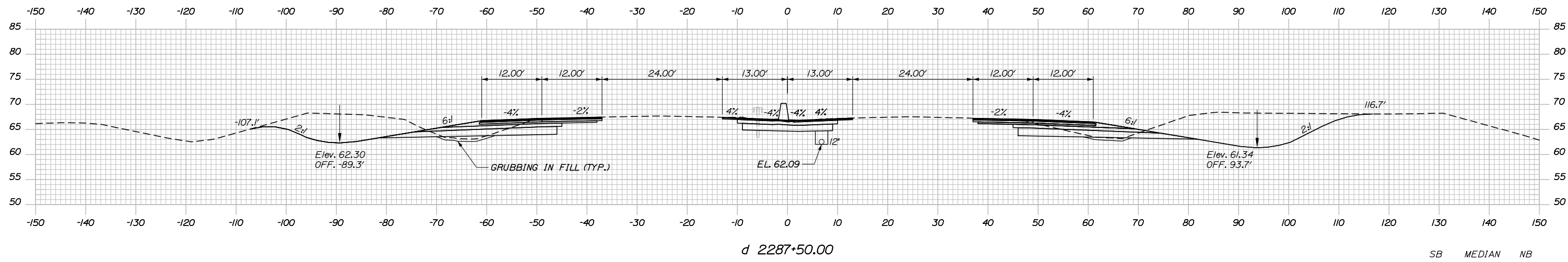
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_140.dgn

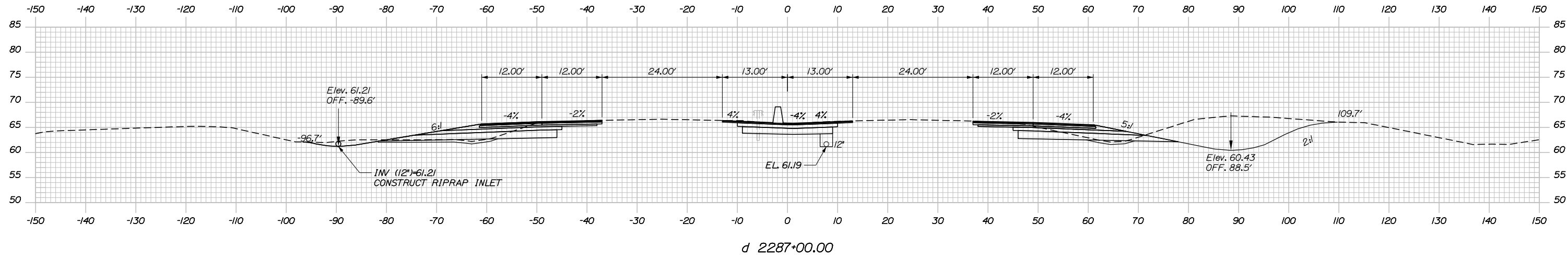
Date: 2/25/2020

Filename: PAW1_Cross_Section_141.dgn

	SB	MEDIAN	NB
C	196.7 CY	80.9 CY	395.7 CY
F	4.4 CY	0 CY	1.4 CY
R	0 CY	0 CY	0 CY
G	13.5 CY	0 CY	7.0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	78.4 CY	83.4 CY	356.6 CY
F	9.5 CY	0 CY	3.0 CY
R	0 CY	0 CY	0 CY
G	16.9 CY	0 CY	7.3 CY
M	0 CY	0 CY	0 CY



Scale: Scale of Feet

No.	Revision	By	Date

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	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 TEL (207) 774-5155
 FAX (207) 228-0909

MAINE TURNPIKE

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PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2287+00 TO STA. d 2287+50

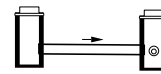
SHEET NUMBER: XS-141
 CONTRACT: 2020.03
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Date: 2/25/2020

STA. 2288+57.72, 4.00' LT. TO
 STA. 2289+45.00, 4.00' RT.
 INSTALL 6" X 8"
 UNDERDRAIN TYPE B

STA. 2288+55.72, 7.00' LT. TO
 STA. 2288+55.72, 2.00' RT.
 INSTALL 12" X 9"
 CULVERT PIPE OPT III

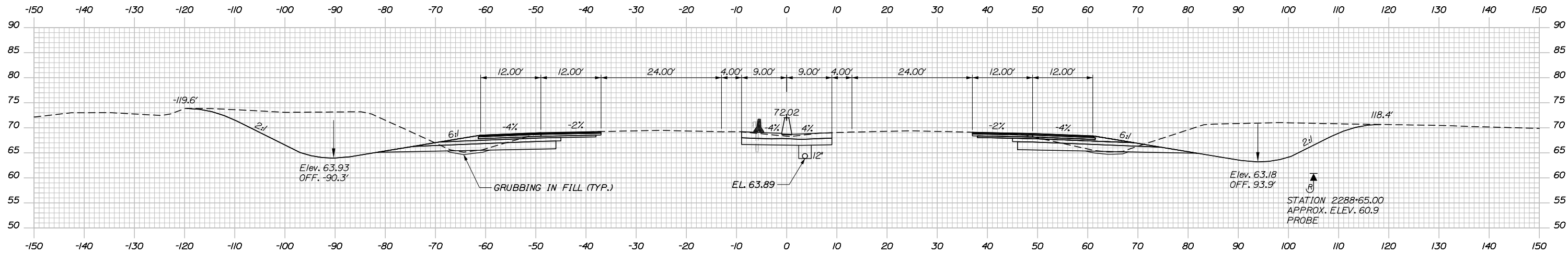
CB-175
 STA. 2288+55.72, 9.00' LT.
 INSTALL TYPE F6
 RIM = 69.05
 12" INV. OUT = 64.16



CB-58
 STA. 2288+55.72, 4.00' RT.
 INSTALL TYPE F6
 RIM = 68.72
 6" INV. IN = 64.16
 12" INV. IN = 64.06
 12" INV. OUT = 63.97

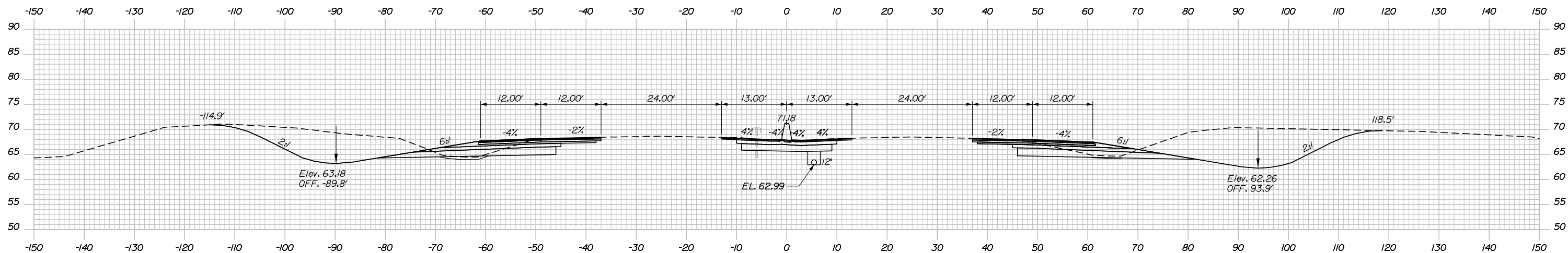
	SB	MEDIAN	NB
C	461.5 CY	79.5 CY	482.6 CY
F	1.2 CY	0 CY	0 CY
R	0 CY	0 CY	0 CY
G	6.9 CY	0 CY	3.8 CY
M	0 CY	0 CY	0 CY

d 2288+55.72



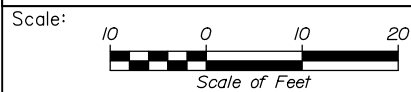
d 2288+50.00

	SB	MEDIAN	NB
C	339.3 CY	79.4 CY	457.0 CY
F	3.7 CY	0 CY	0.5 CY
R	0 CY	0 CY	0 CY
G	8.3 CY	0 CY	4.4 CY
M	0 CY	0 CY	0 CY



d 2288+00.00

Filename: PAW1_Cross_Section_142.dgn



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PORTLAND AREA WIDENING &
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 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2288+00 TO STA. d 2288+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	JS	2/20	Checked TRS 2/20
Drawn	GW	2/20	In Charge of RAL 2/20

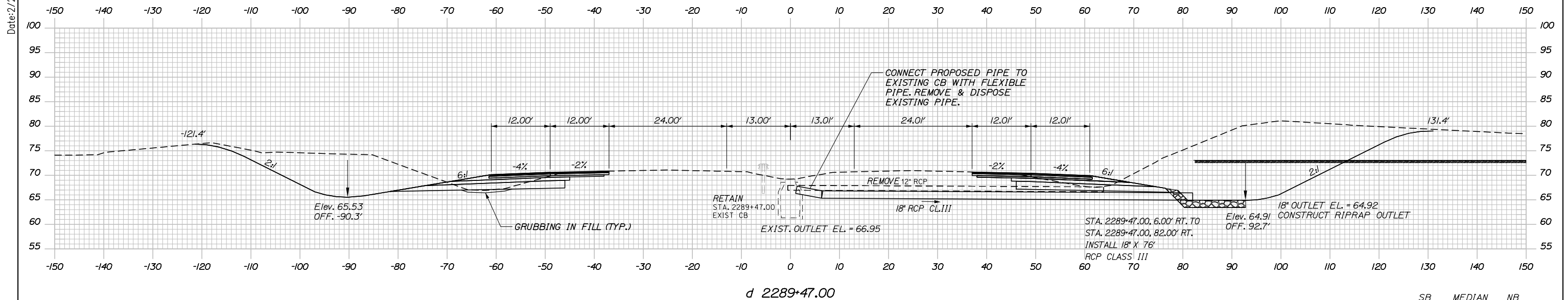
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

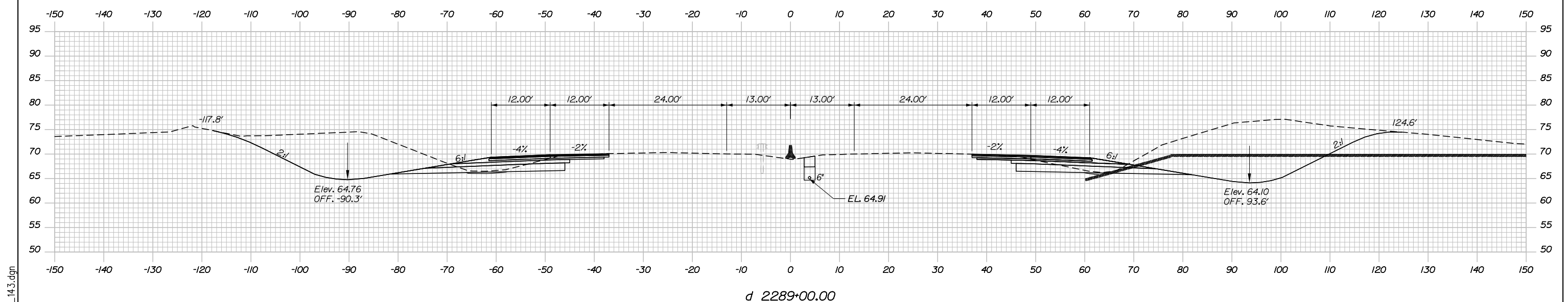
SHEET NUMBER: XS-142

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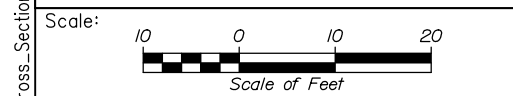
Date: 2/25/2020



	SB	MEDIAN	NB
C	493.7 CY	0 CY	530.8 CY
F	0.4 CY	0 CY	49.4 CY
R	0 CY	0 CY	424.7 CY
G	5.2 CY	0 CY	0.8 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	545.0 CY	0 CY	486.7 CY
F	0.6 CY	0 CY	30.2 CY
R	0 CY	0 CY	175.3 CY
G	4.9 CY	0 CY	3.8 CY
M	0 CY	0 CY	0 CY



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No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

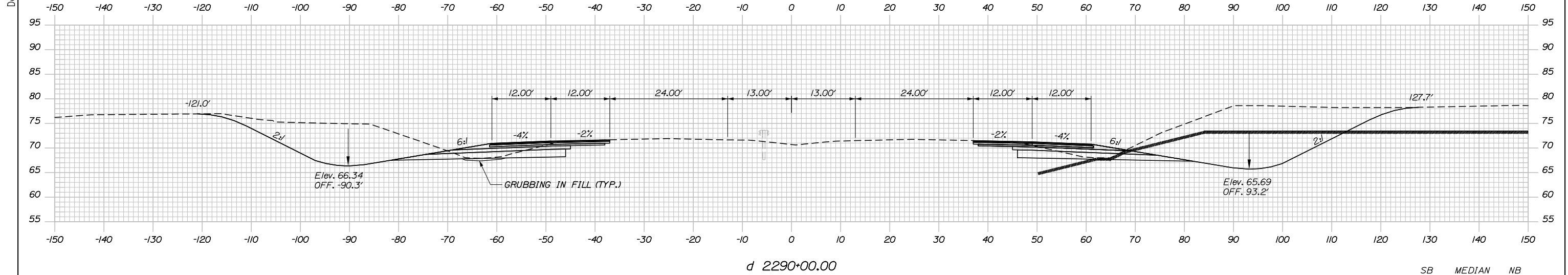
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2289+00 TO STA. d 2289+47

SHEET NUMBER: XS-143
 239 OF 310

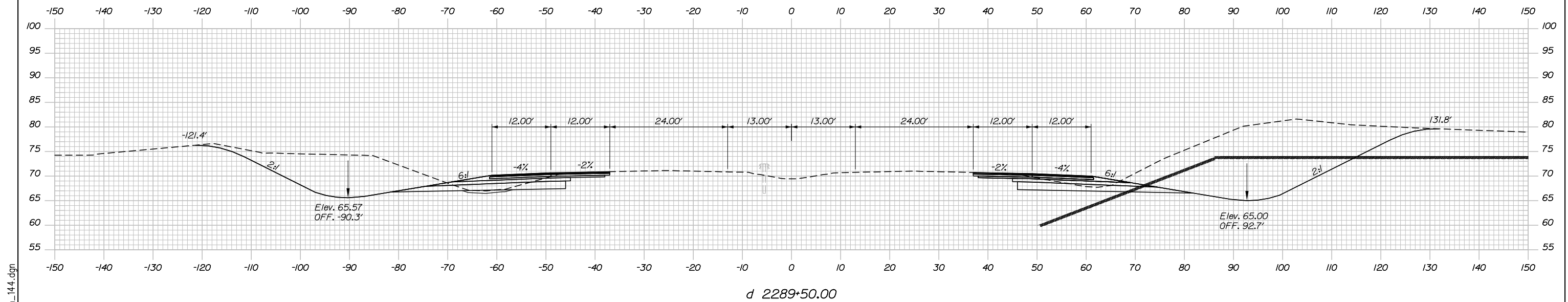
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_14.dgn

Date: 2/25/2020

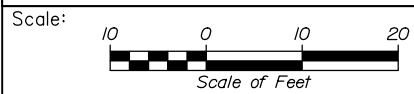


	SB	MEDIAN	NB
C	506.1 CY	0 CY	532.7 CY
F	0.3 CY	0 CY	55.8 CY
R	0 CY	0 CY	0 CY
G	6.6 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	30.5 CY	0 CY	37.8 CY
F	0 CY	0 CY	2.7 CY
R	0 CY	0 CY	0 CY
G	0.5 CY	0 CY	0 CY
M	0 CY	0 CY	0 CY

Filename: PAW1_Cross_Section_144.dgn



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No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2289+50 TO STA. d 2290+00

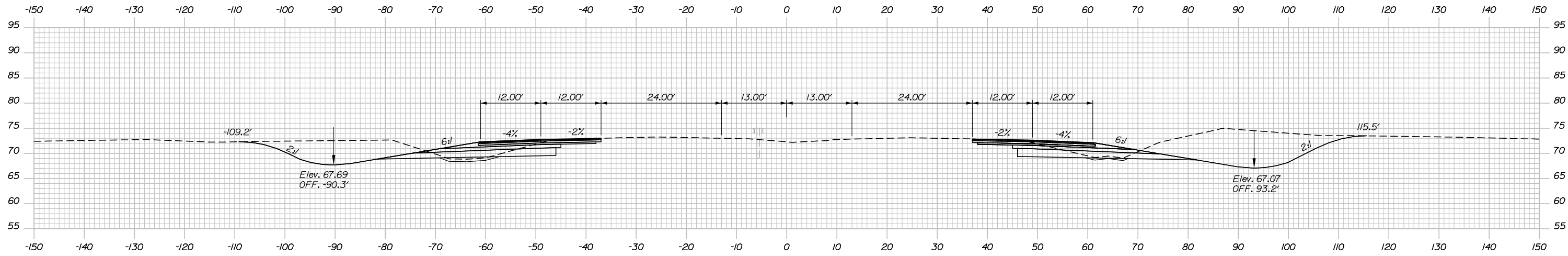
SHEET NUMBER: XS-144
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CONTRACT: 2020.03

Date: 2/25/2020

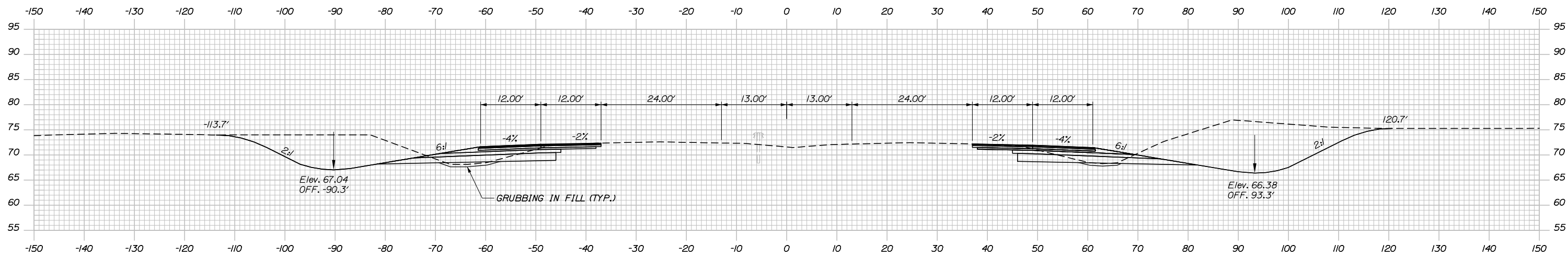
Filename: PAW1_Cross_Section_145.dgn

	SB	MEDIAN	NB
C	322.3 CY	0 CY	524.0 CY
F	4.6 CY	0 CY	0.2 CY
R	0 CY	0 CY	0 CY
G	9.6 CY	0 CY	5.0 CY
M	0 CY	0 CY	0 CY

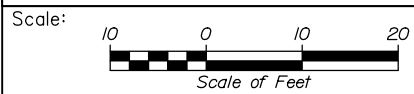


d 2291+00.00

	SB	MEDIAN	NB
C	440.0 CY	0 CY	519.2 CY
F	2.5 CY	0 CY	33.1 CY
R	0 CY	0 CY	0 CY
G	7.7 CY	0 CY	3.1 CY
M	0 CY	0 CY	0 CY



d 2290+50.00



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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2290+50 TO STA. d 2291+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

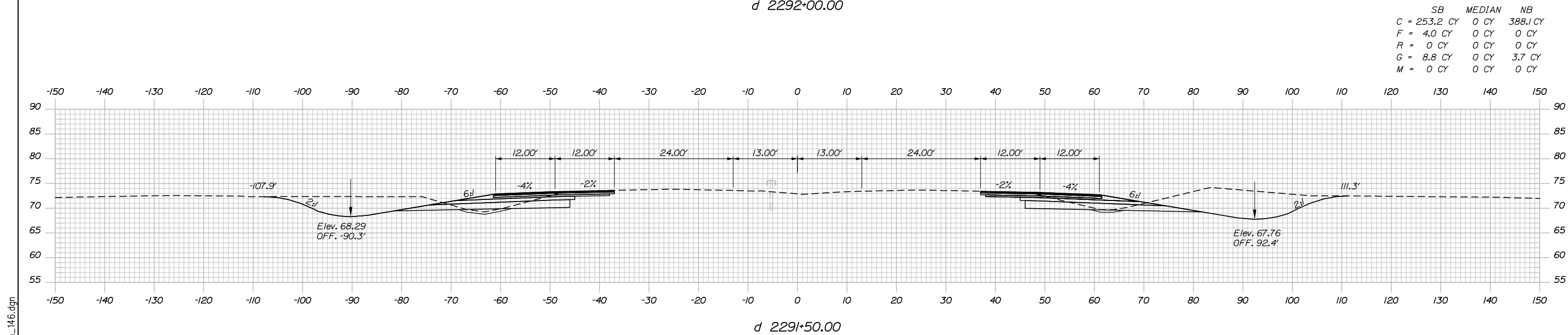
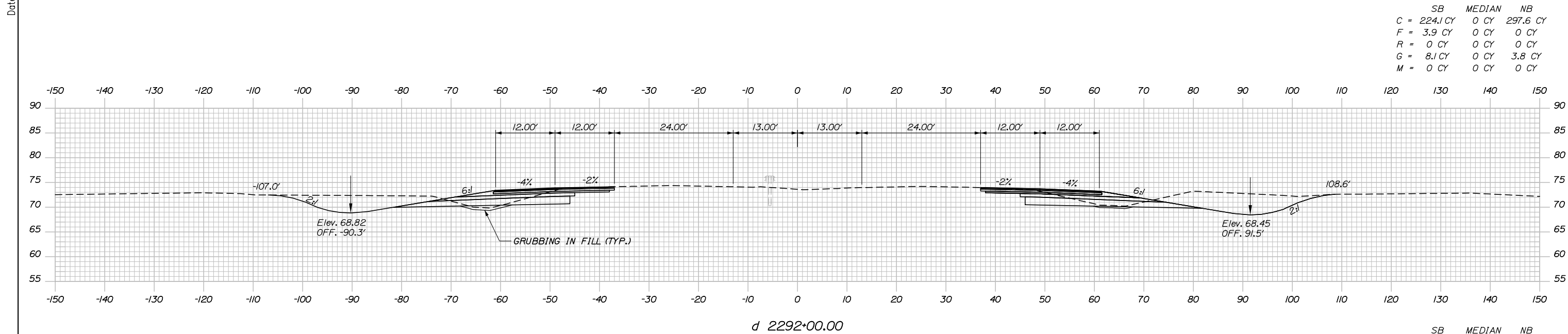
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

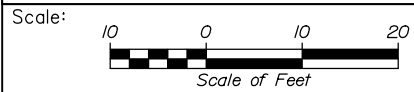
SHEET NUMBER: XS-145

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Date: 2/25/2020



Filename: PAW1_Cross_Section_146.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2291+50 TO STA. d 2292+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
Designed	By	Date	Checked	By	Date
	JS	2/20		TRS	2/20
Drawn	By	Date	In Charge of	By	Date
	GW	2/20		RAL	2/20

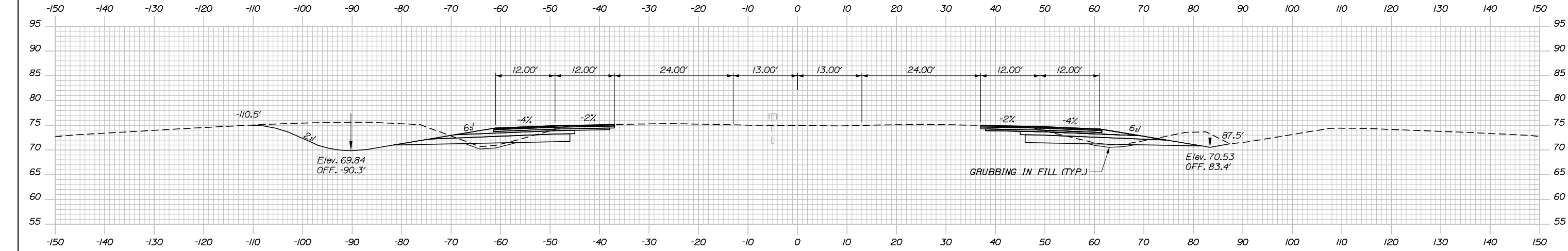
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

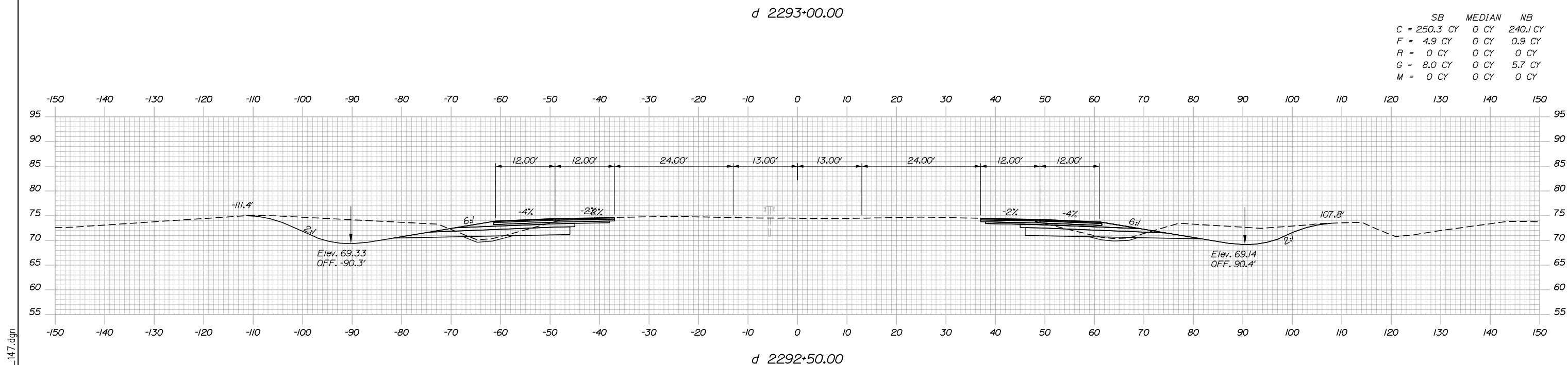
SHEET NUMBER: XS-146

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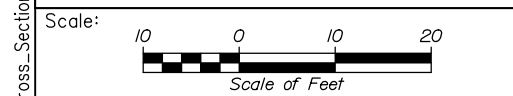
Date: 2/25/2020



	SB	MEDIAN	NB
C	308.4 CY	0 CY	175.6 CY
F	5.6 CY	0 CY	1.1 CY
R	0 CY	0 CY	0 CY
G	8.1 CY	0 CY	6.9 CY
M	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	250.3 CY	0 CY	240.1 CY
F	4.9 CY	0 CY	0.9 CY
R	0 CY	0 CY	0 CY
G	8.0 CY	0 CY	5.7 CY
M	0 CY	0 CY	0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

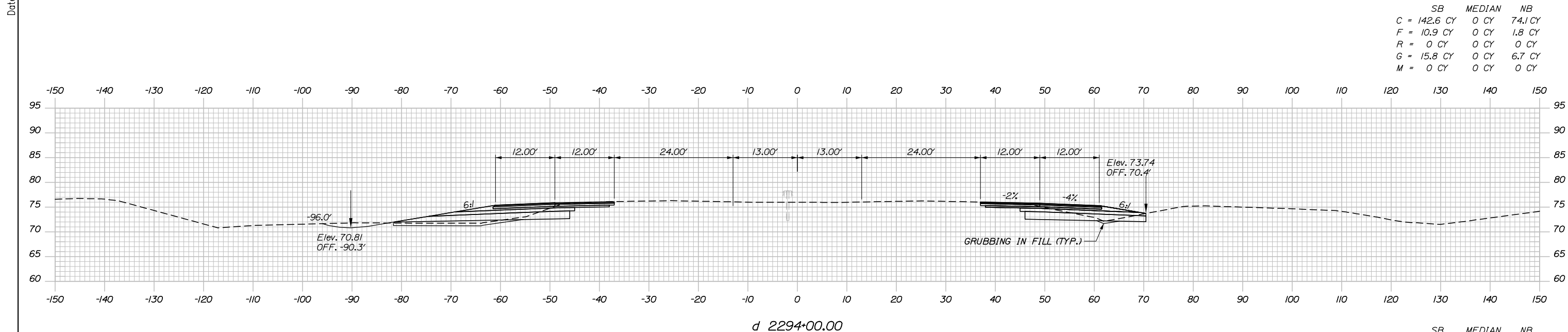
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2292+50 TO STA. d 2293+00

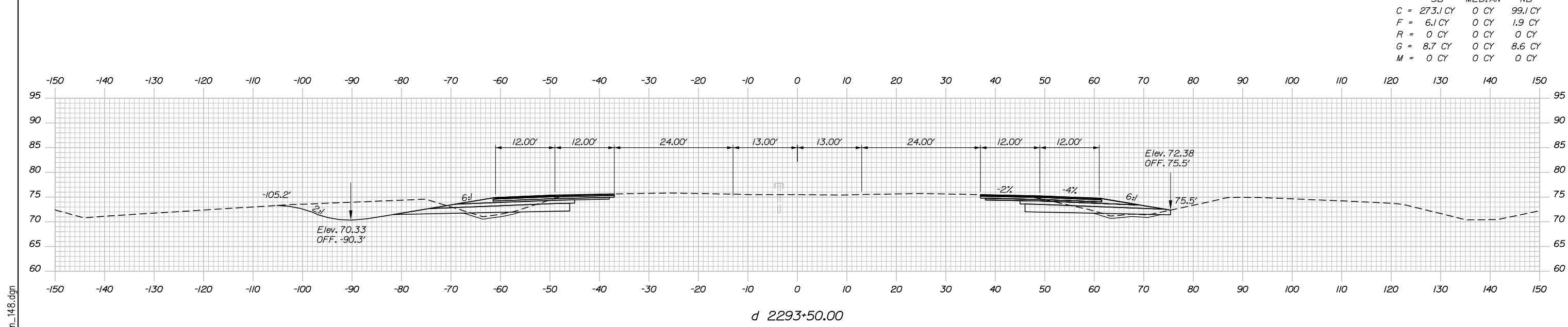
SHEET NUMBER: XS-147
 CONTRACT: 2020.03
 243 OF 310

Filename: PAW1_Cross_Section_147.dgn

Date: 2/25/2020



	SB	MEDIAN	NB
C	= 142.6 CY	0 CY	74.1 CY
F	= 10.9 CY	0 CY	1.8 CY
R	= 0 CY	0 CY	0 CY
G	= 15.8 CY	0 CY	6.7 CY
M	= 0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C	= 273.1 CY	0 CY	99.1 CY
F	= 6.1 CY	0 CY	1.9 CY
R	= 0 CY	0 CY	0 CY
G	= 8.7 CY	0 CY	8.6 CY
M	= 0 CY	0 CY	0 CY

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 Westbrook, ME 04092
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MAINE TURNPIKE

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

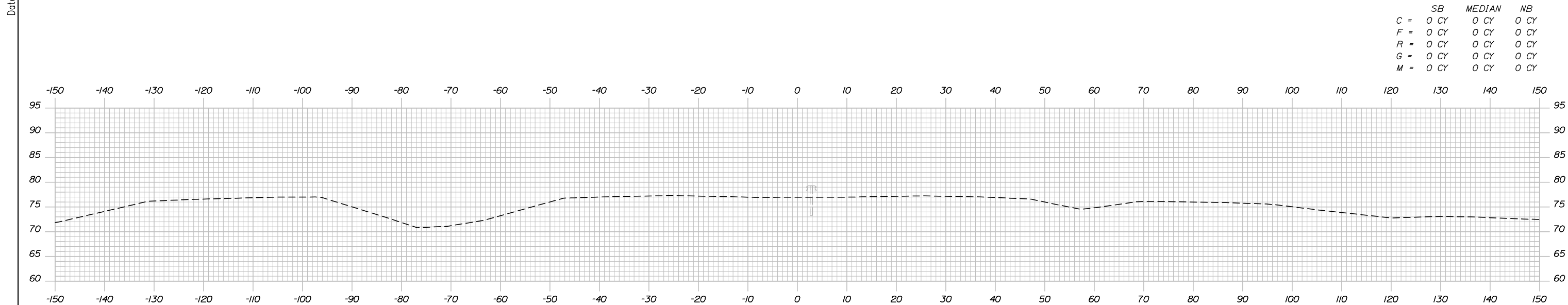
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 MAINE TURNPIKE CROSS SECTIONS
 STA. d 2293+50 TO STA. d 2294+00

SHEET NUMBER: XS-148
 244 OF 310

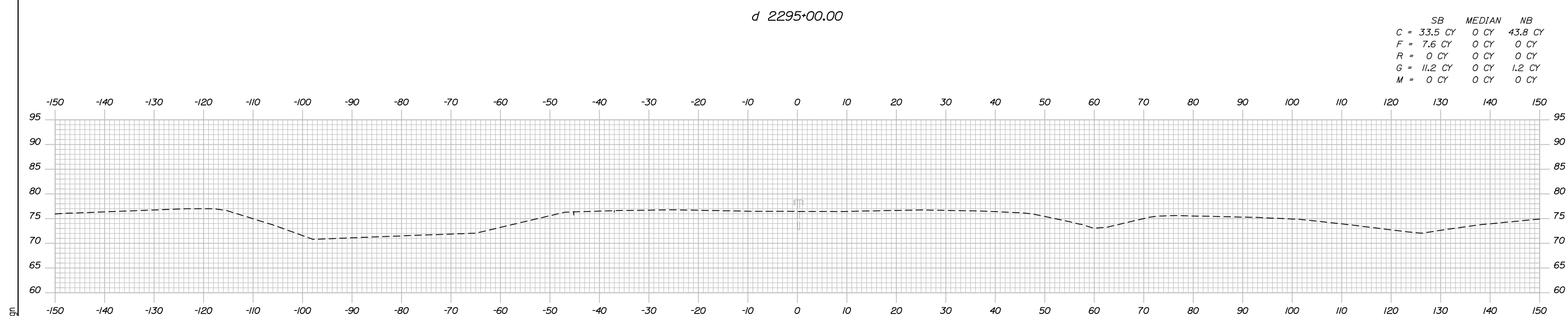
CONTRACT: 2020.03

Filename: PAW1_Cross_Section_148.dgn

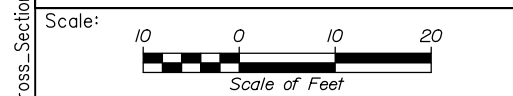
Date: 2/25/2020



	SB	MEDIAN	NB
C =	0 CY	0 CY	0 CY
F =	0 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	0 CY	0 CY	0 CY
M =	0 CY	0 CY	0 CY



	SB	MEDIAN	NB
C =	33.5 CY	0 CY	43.8 CY
F =	7.6 CY	0 CY	0 CY
R =	0 CY	0 CY	0 CY
G =	11.2 CY	0 CY	1.2 CY
M =	0 CY	0 CY	0 CY




Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	JS	2/20	TR	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
MAINE TURNPIKE CROSS SECTIONS
STA. d 2294+50 TO STA. d 2295+00

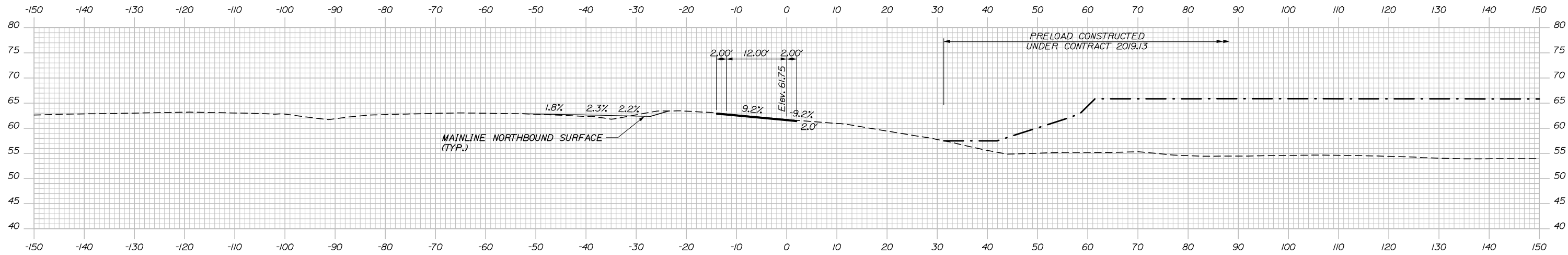
SHEET NUMBER: XS-149
245 OF 310

CONTRACT: 2020.03

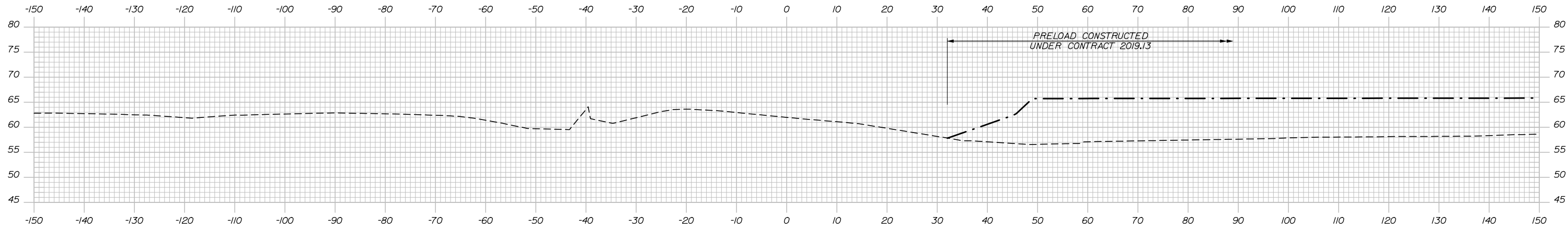
Filename: PAW1_Cross_Section_149.dgn

Date: 2/25/2020

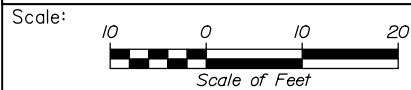
C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



34+50.00
 MATCH EXISTING PAVEMENT
 LIMIT OF WORK



34+00.00



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THE GOLD STAR
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 NB ON CROSS SECTIONS
 STA. 34+00 TO STA. 34+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
Designed	By	Date	Checked	By	Date
	JS	2/20		TRS	2/20
Drawn	By	Date	In Charge of	By	Date
	GW	2/20		RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

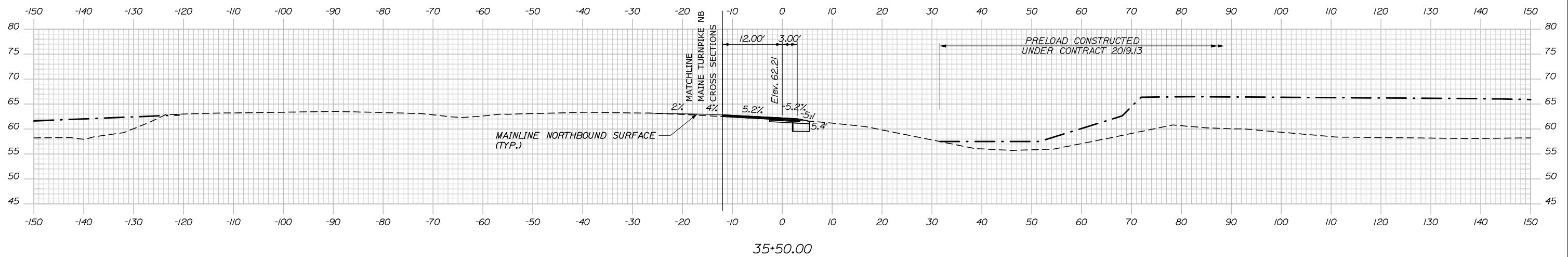
SHEET NUMBER: XS-150

246 OF 310

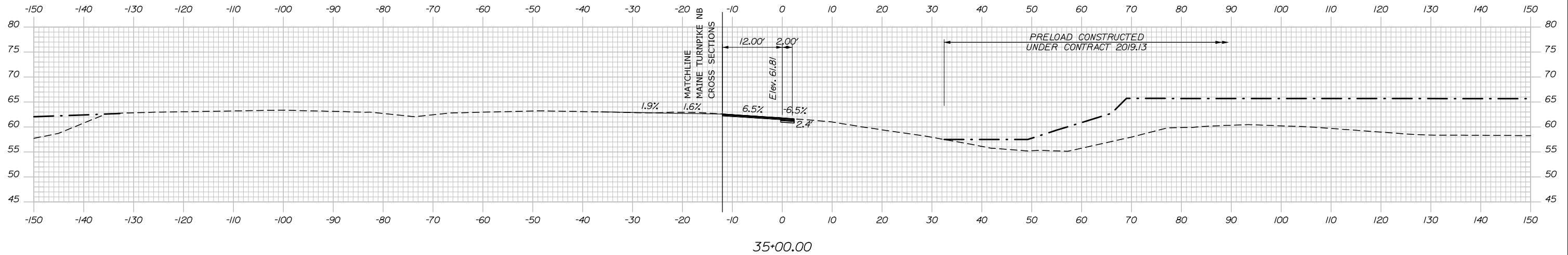
Filename: PAW1_Cross_Section_NB_45_ON-1.dgn

Date: 2/25/2020

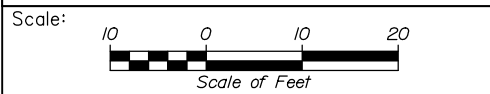
C = 14.2 CY
 F = 0.3 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 9.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW1_Cross_Section_NB_45_ON-2.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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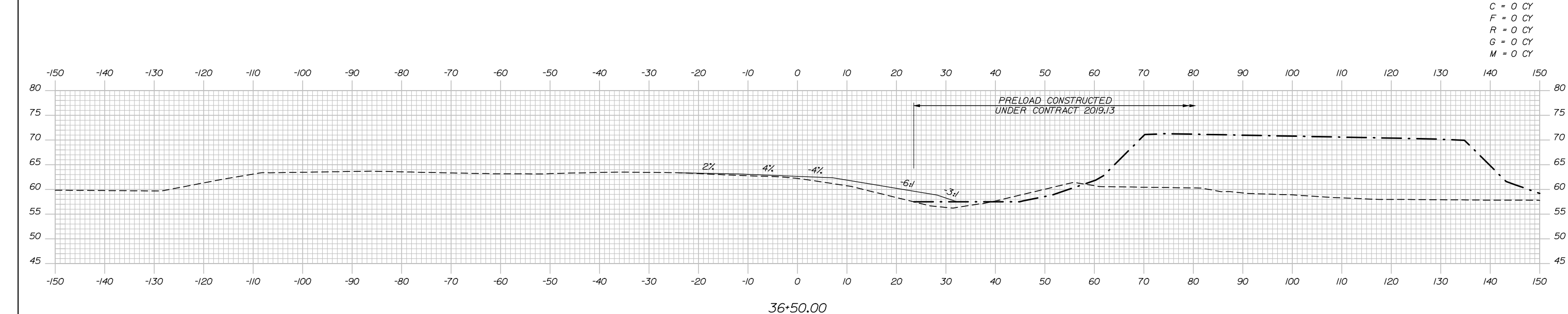
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 NB ON CROSS SECTIONS
 STA. 35+00 TO STA. 35+50

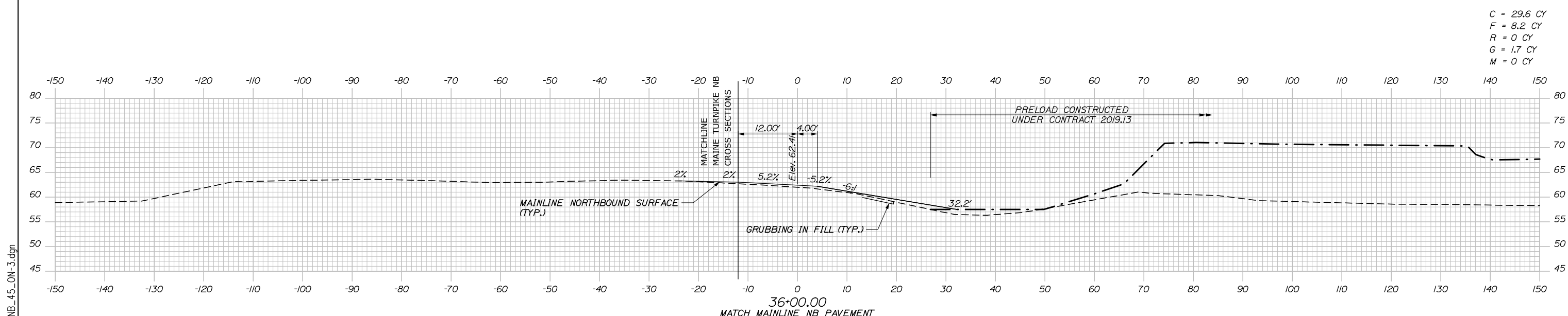
SHEET NUMBER: XS-151
 247 OF 310

CONTRACT: 2020.03

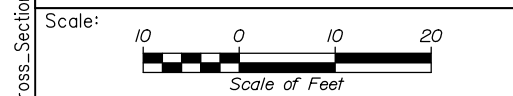
Date: 2/25/2020



C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 29.6 CY
 F = 8.2 CY
 R = 0 CY
 G = 1.7 CY
 M = 0 CY



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20		TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 NB ON CROSS SECTIONS
 STA. 36+00 TO STA. 36+50

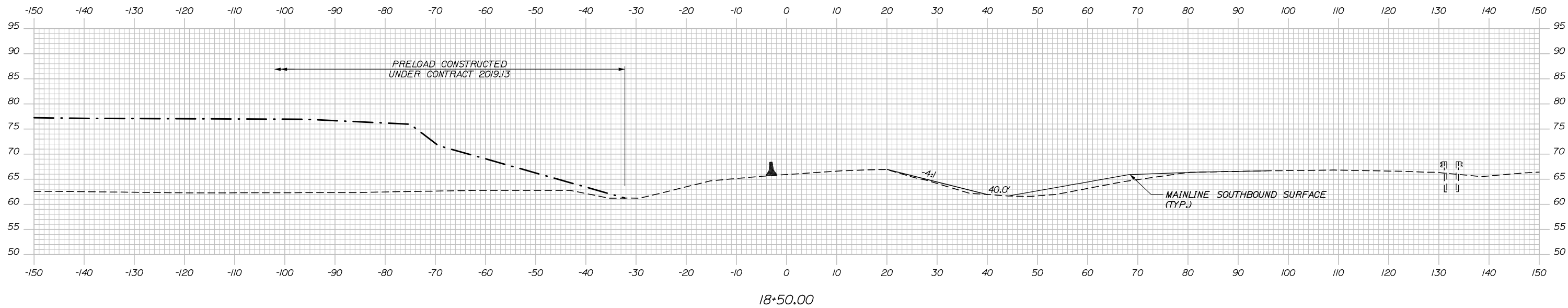
SHEET NUMBER: XS-152
 248 OF 310

CONTRACT: 2020.03

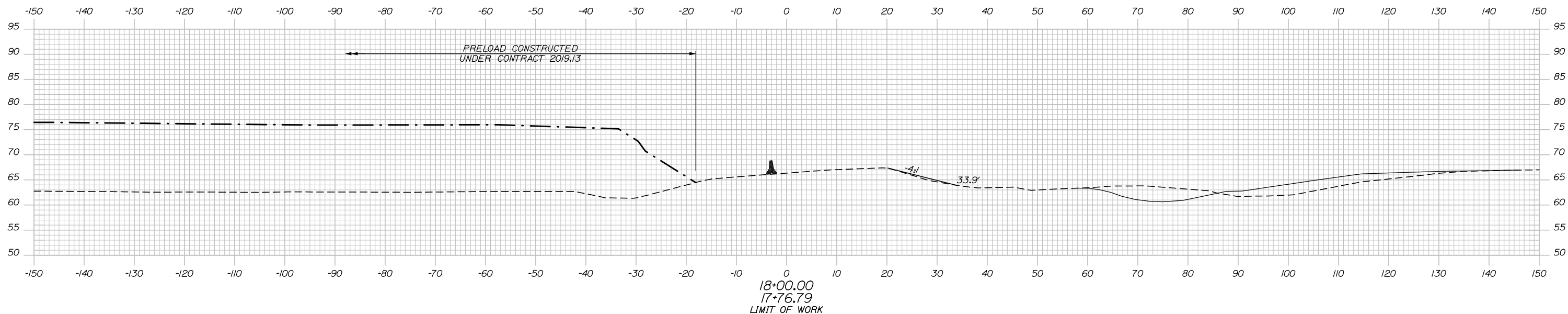
Filename: PAW1_Cross_Section_NB_45_ON_3.dgn

Date: 2/25/2020

C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW1_Cross_Section_SB_45_Off-1.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR MEMORIAL HIGHWAY

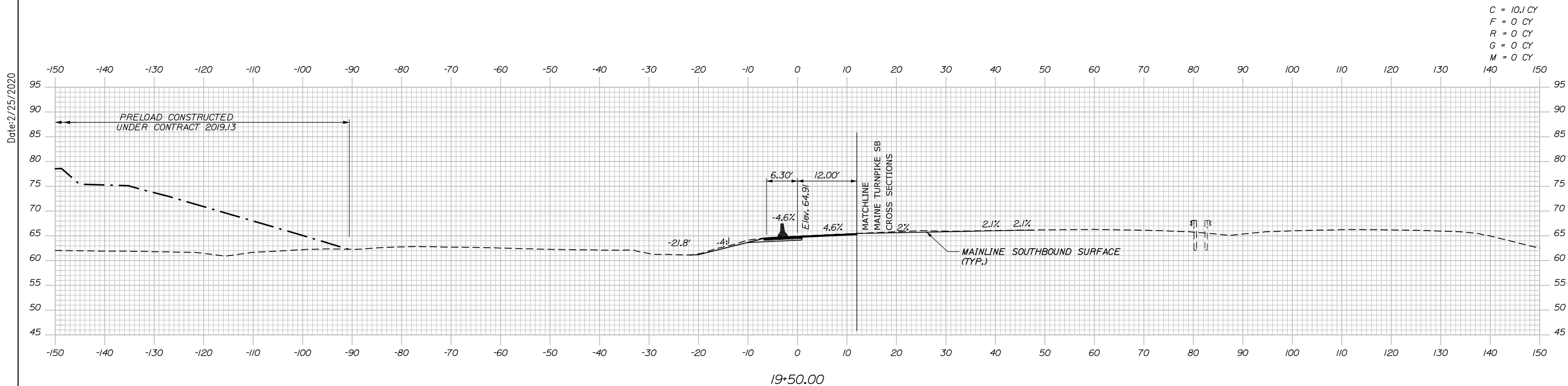
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 SB OFF CROSS SECTIONS
 STA. 18+00 TO STA. 18+50

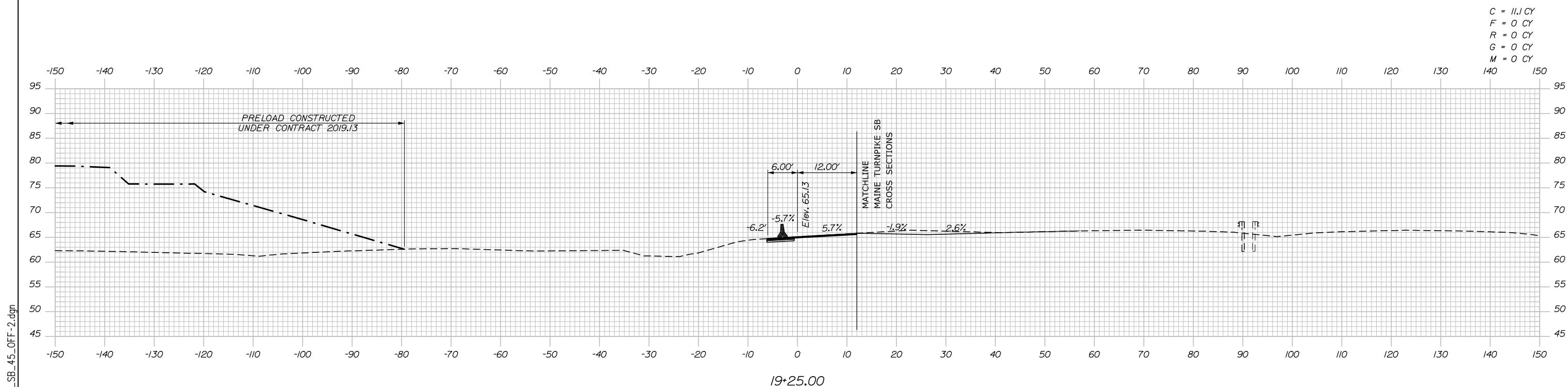
SHEET NUMBER: XS-153
 249 OF 310

CONTRACT: 2020.03

Date: 2/25/2020

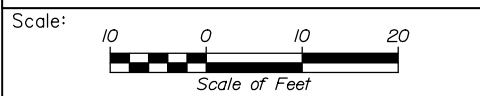


C = 10.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 11.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

Filename: PAW1_Cross_Section_SB_45_Off-2.dgn



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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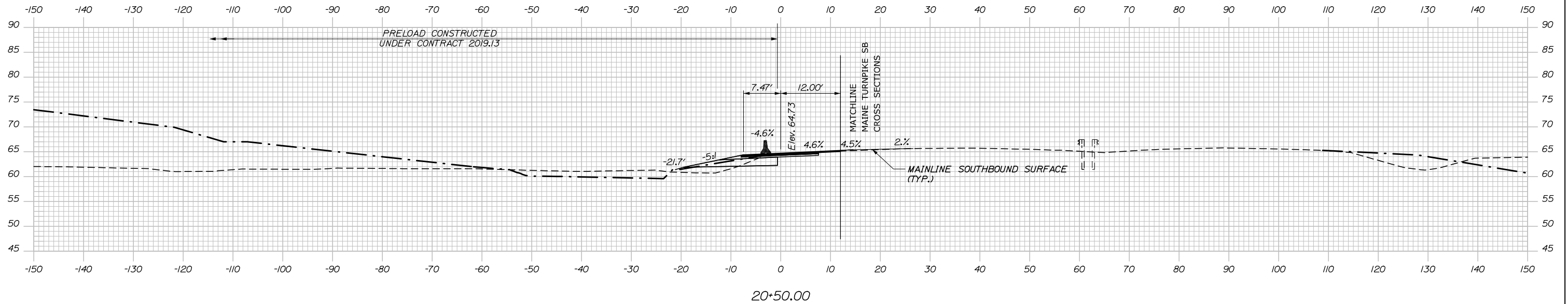
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 SB OFF CROSS SECTIONS
 STA. 19+00 TO STA. 19+50

SHEET NUMBER: XS-154
 250 OF 310

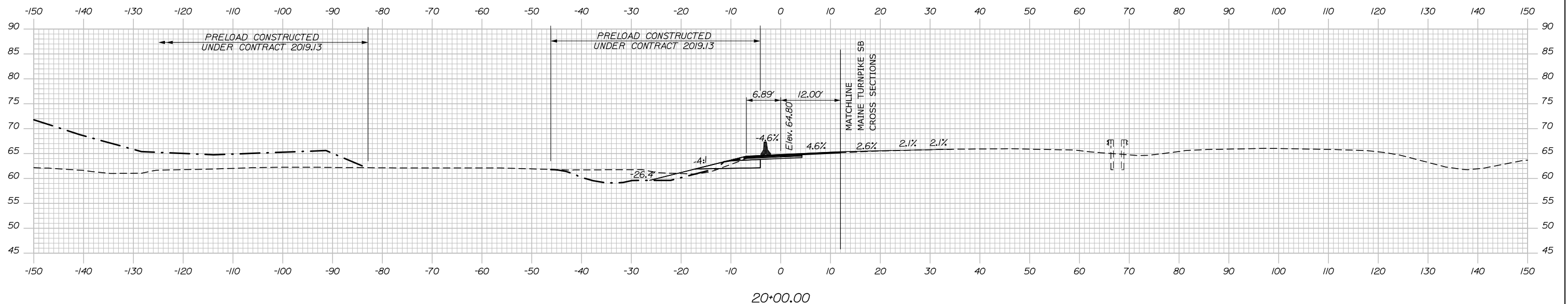
CONTRACT: 2020.03

Date: 2/25/2020

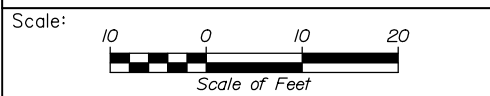
C = 44.1 CY
 F = 11.2 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 32.1 CY
 F = 10.6 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW1_Cross_Section_SB_45_Off-3.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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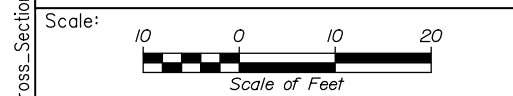
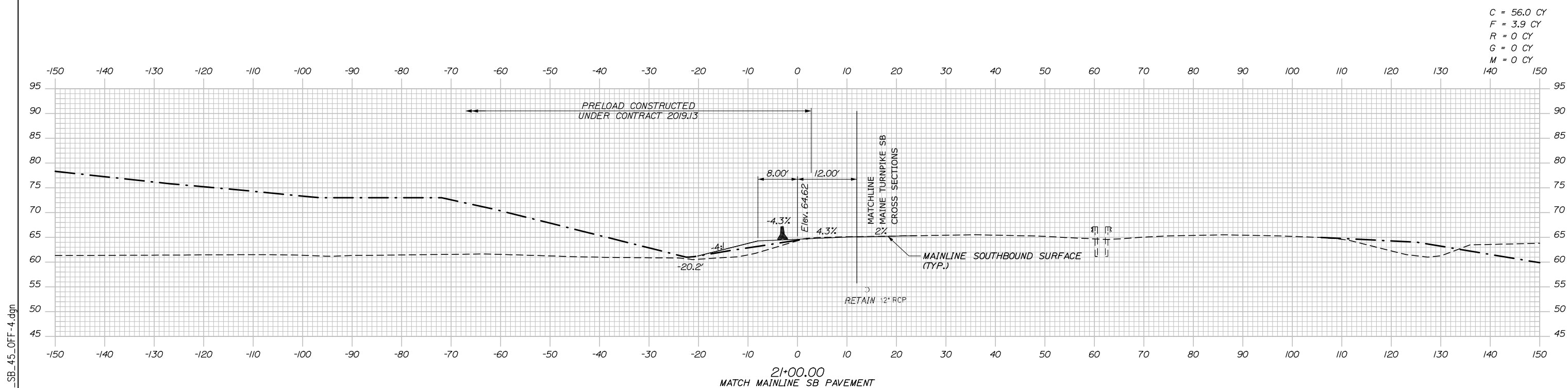
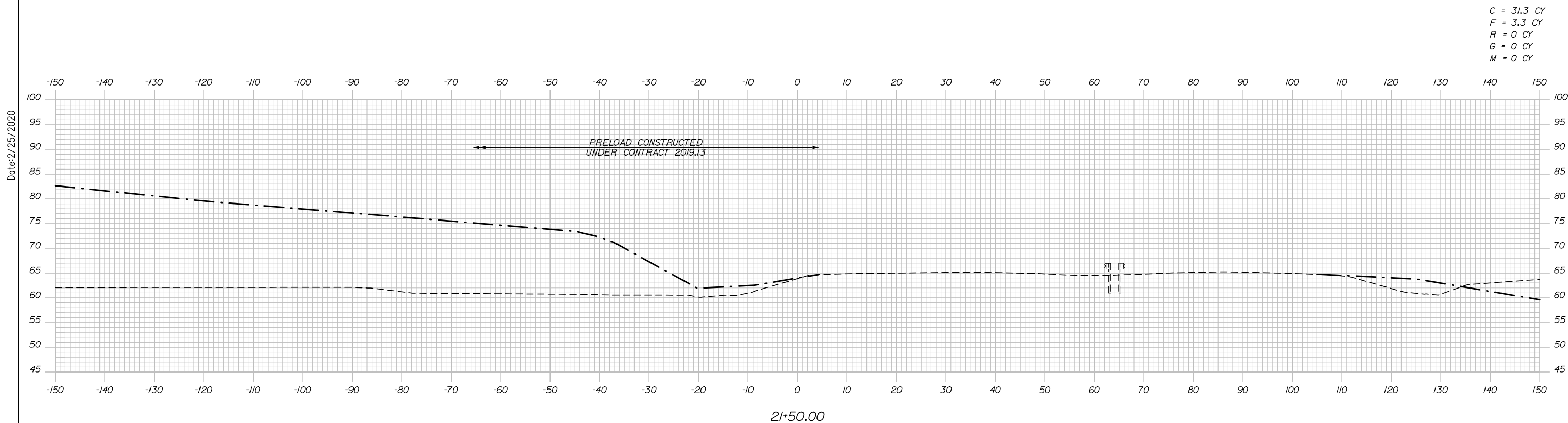
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 SB OFF CROSS SECTIONS
 STA. 20+00 TO STA. 20+50

SHEET NUMBER: XS-155
 251 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	TR	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 SB OFF CROSS SECTIONS
 STA. 21+00 TO STA. 21+50

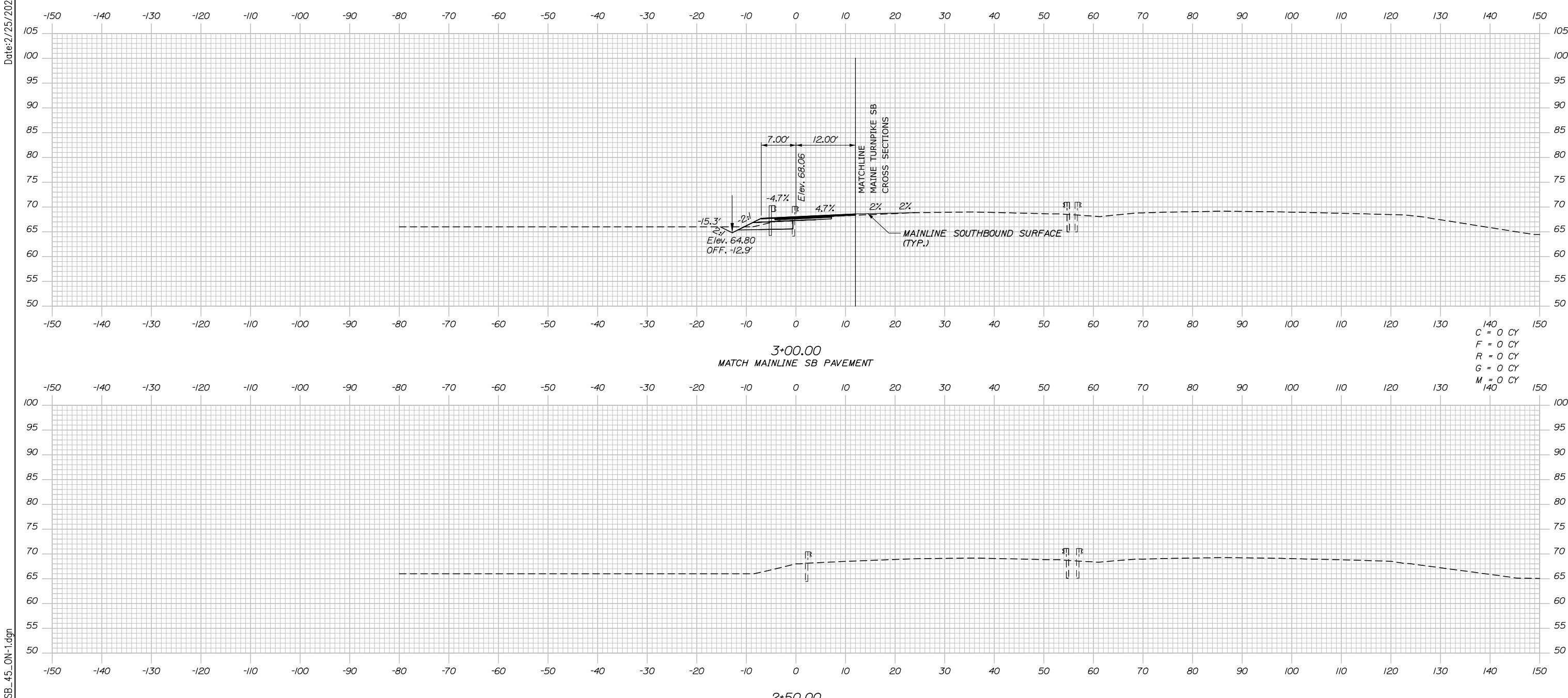
SHEET NUMBER: XS-156
 252 OF 310

CONTRACT: 2020.03

Filename: PAW1_Cross_Section_SB_45_Off-4.dgn

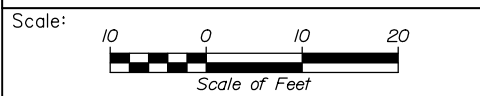
Date: 2/25/2020

C = 61.9 CY
 F = 0.2 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



140
 C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

Filename: PAW1_Cross_Section_SB_45_ON-1.dgn



Designed by:


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No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	TR	TR	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

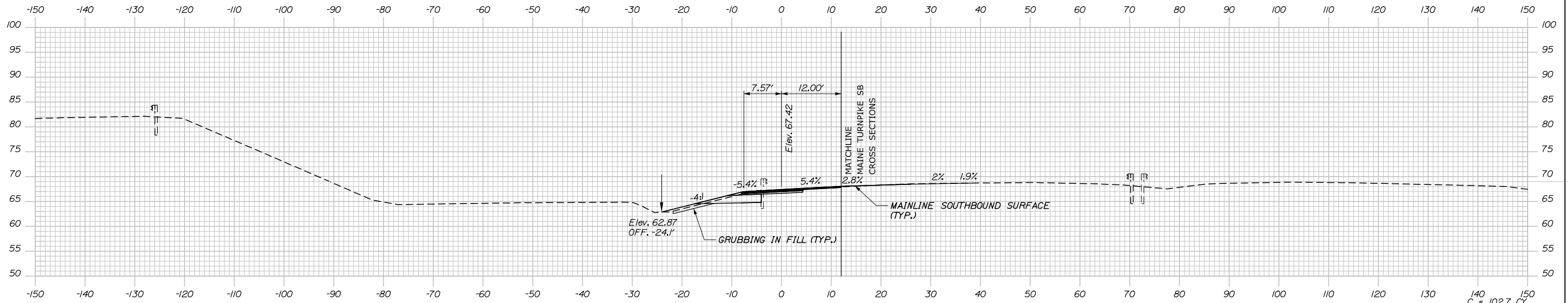
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 SB ON CROSS SECTIONS
 STA. 2+50 TO STA.3+00

SHEET NUMBER: XS-157
 253 OF 310

CONTRACT: 2020.03

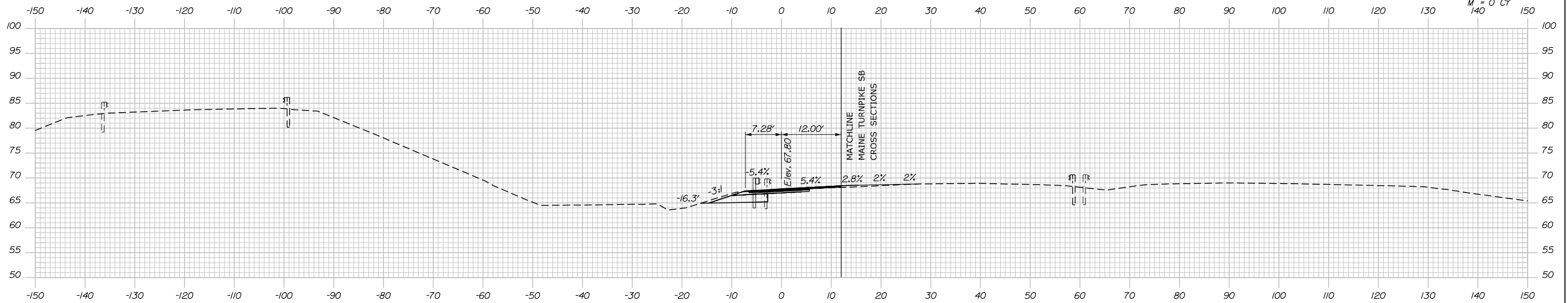
Date: 2/25/2020

C = 60.8 CY
 F = 2.8 CY
 R = 0 CY
 G = 3.3 CY
 M = 0 CY

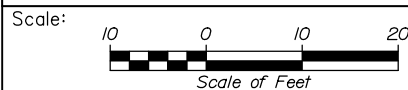


4+00.00

140
 C = 102.7 CY
 F = 0.6 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



3+50.00



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THE GOLD STAR
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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 45 SB ON CROSS SECTIONS
 STA. 3+50 TO STA.4+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

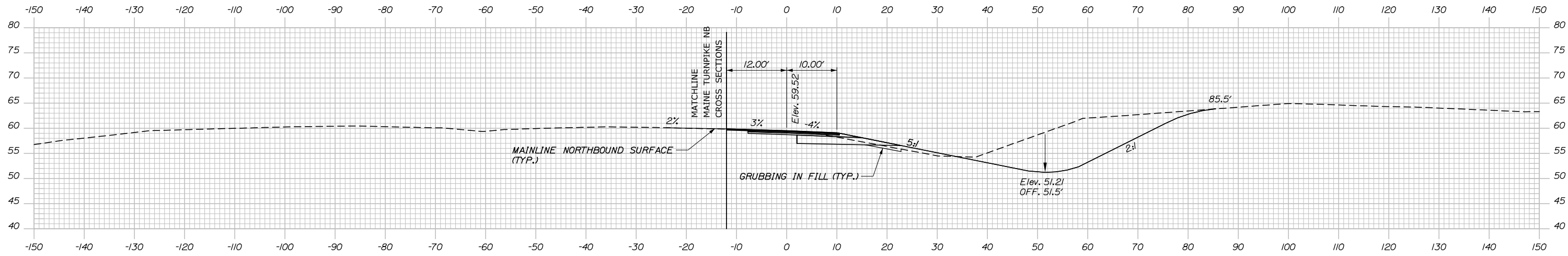
SHEET NUMBER: XS-158

254 OF 310

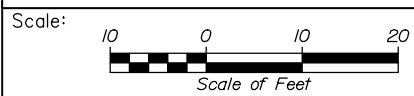
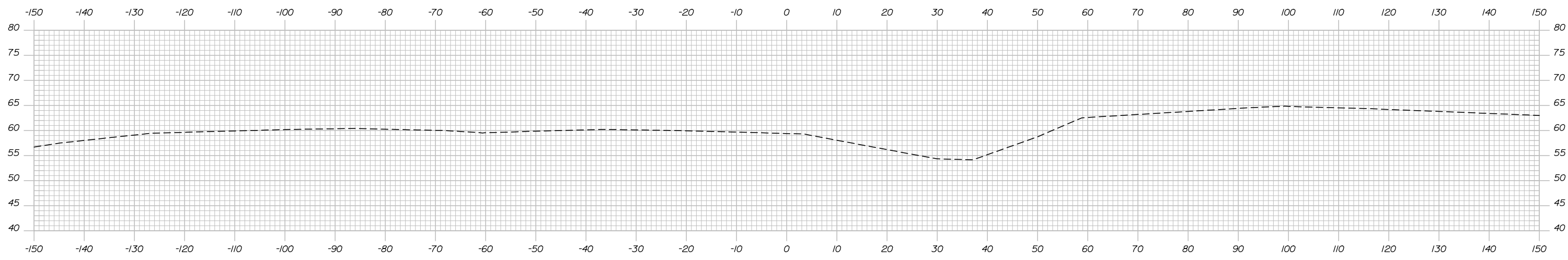
Filename: PAW1_Cross_Section_SB_45_ON-2.dgn

Date: 2/25/2020

C = 55.7 CY
 F = 1.6 CY
 R = 0 CY
 G = 0.6 CY
 M = 0 CY



C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	TR	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 NB OFF CROSS SECTIONS
 STA. 62+88 TO STA. 63+00

CONTRACT: 2020.03

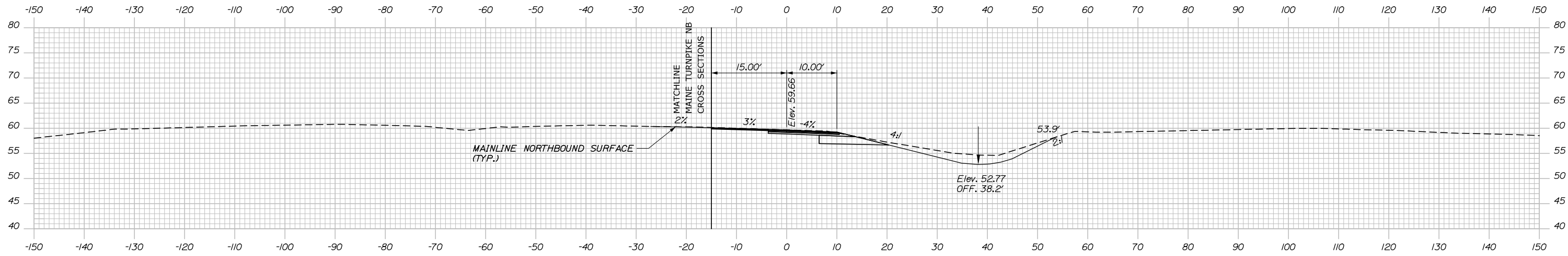
SHEET NUMBER: XS-159

255 OF 310

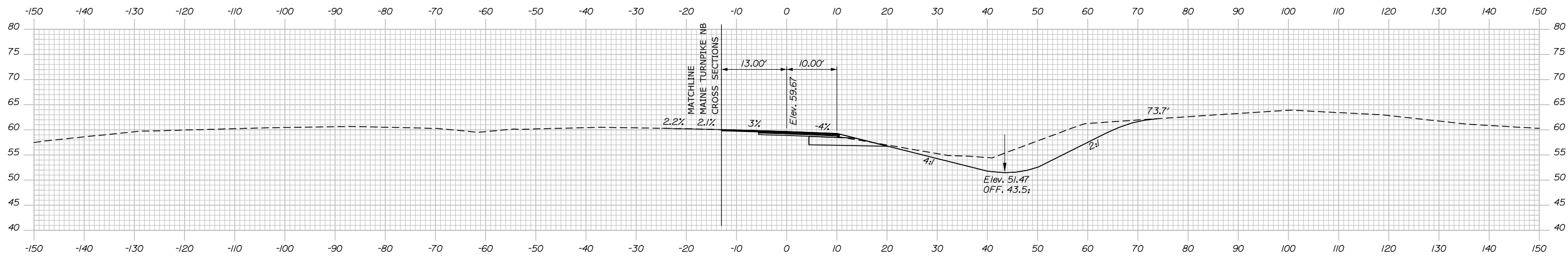
Filename: PAW1_Cross_Section_NB_46_OFF-1.dgn

Date: 2/25/2020

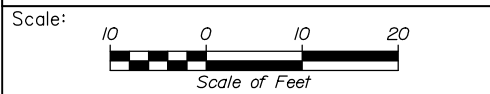
C = 218.8 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 390.7 CY
 F = 6.9 CY
 R = 0 CY
 G = 2.7 CY
 M = 0 CY



Filename: PAW1_Cross_Section_NB_46_OFF-2.dgn



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	TR	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

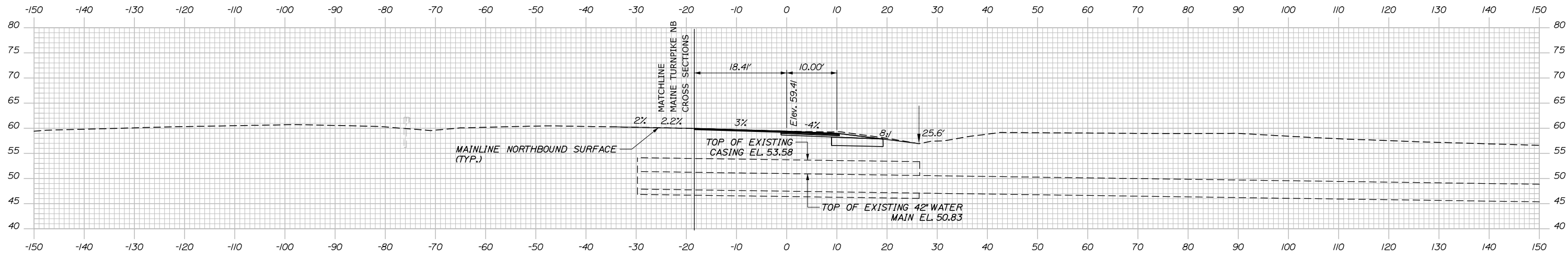
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 NB OFF CROSS SECTIONS
 STA. 63+50 TO STA. 64+00

SHEET NUMBER: XS-160
 256 OF 310

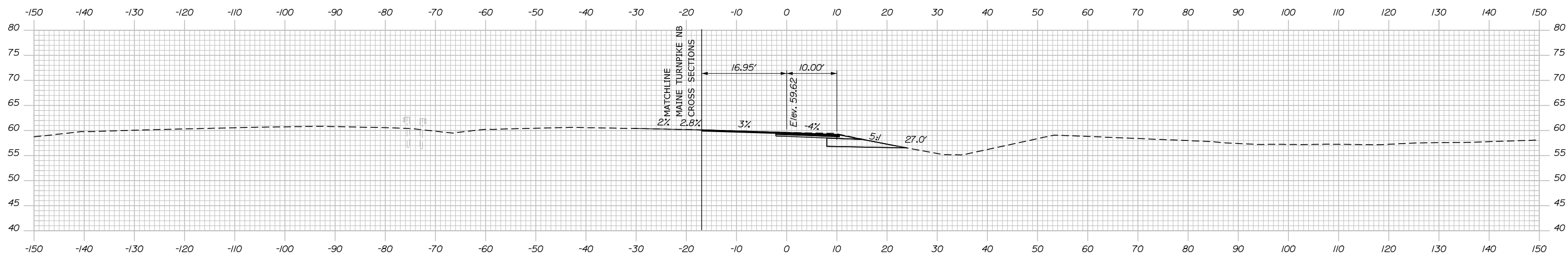
CONTRACT: 2020.03

Date: 2/25/2020

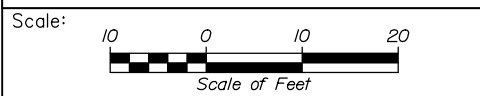
C = 67.7 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 101.9 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW1_Cross_Section_NB_46_Off-3.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

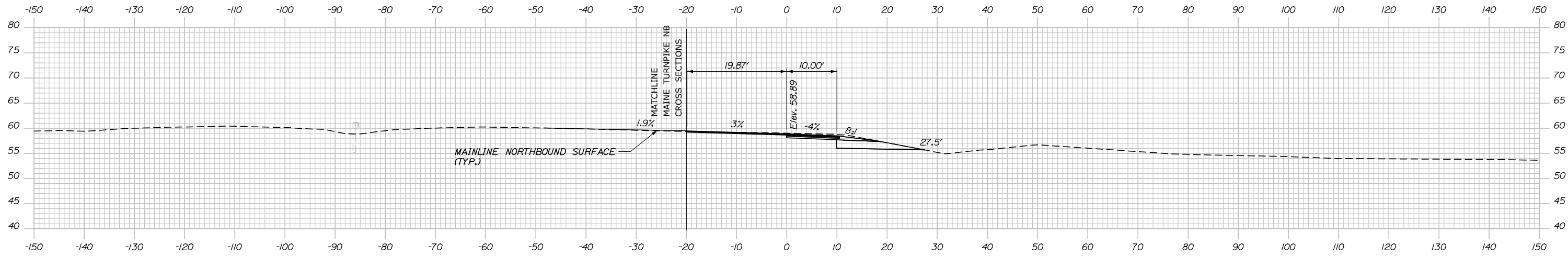
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 NB OFF CROSS SECTIONS
 STA. 64+50 TO STA. 65+00

SHEET NUMBER: XS-161
 257 OF 310

CONTRACT: 2020.03

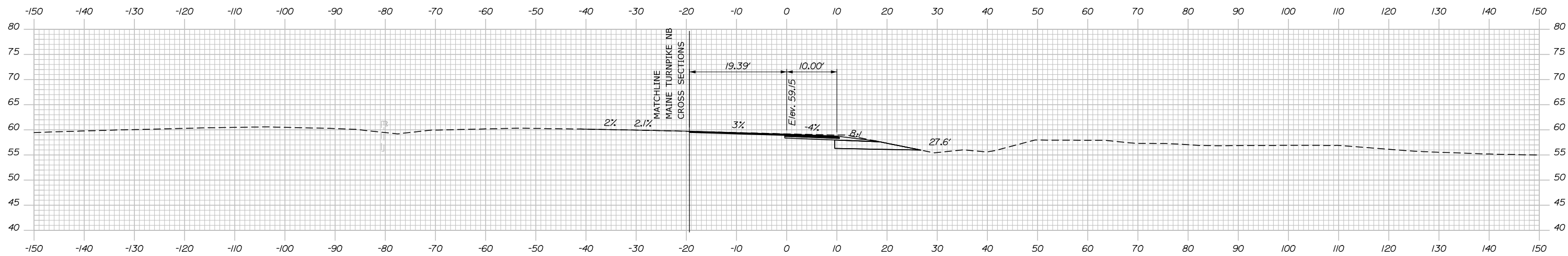
Date: 2/25/2020

C = 75.0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

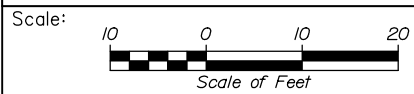


66+00.00

C = 72.2 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



65+50.00



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

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 NB OFF CROSS SECTIONS
 STA. 65+50 TO STA. 66+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

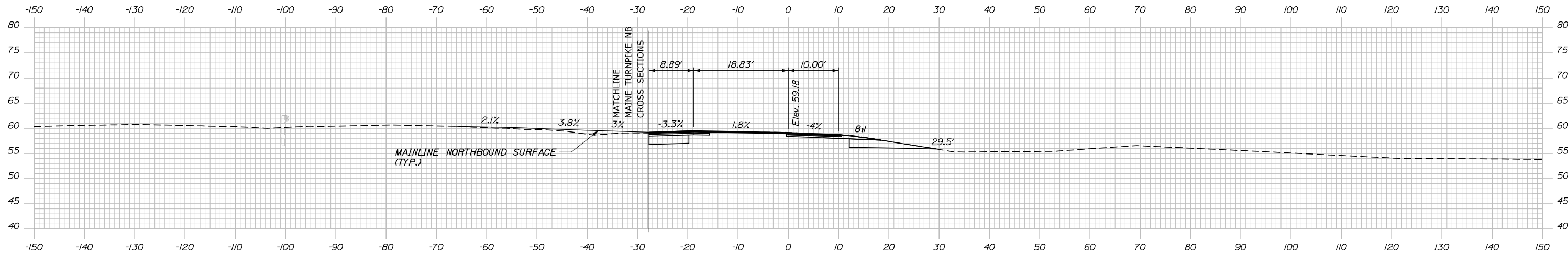
SHEET NUMBER: XS-162

258 OF 310

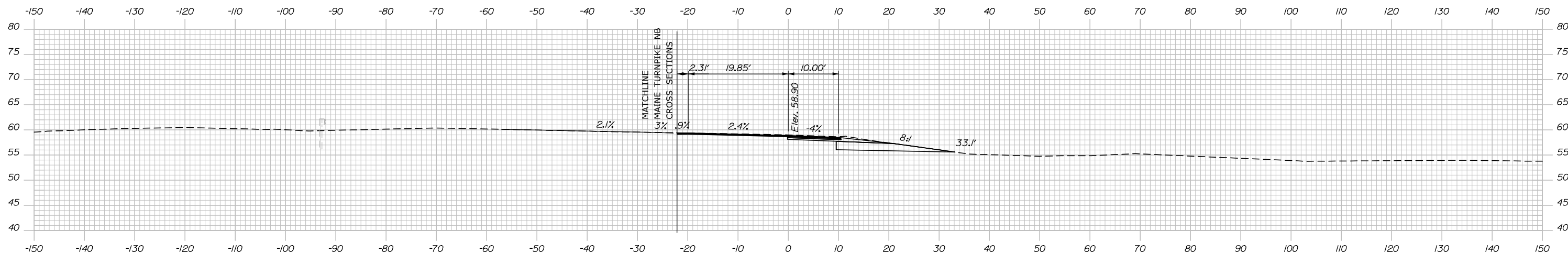
Filename: PAW1_Cross_Section_NB_46_Off-4.dgn

Date: 2/25/2020

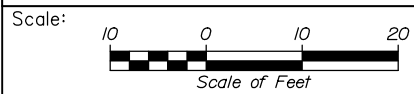
C = 94.8 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 83.1 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW1_Cross_Section_NB_46_Off-5.dgn



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PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 NB OFF CROSS SECTIONS
 STA. 66+50 TO STA. 67+00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
Designed	By	Date	Checked	By	Date
	JS	2/20		TRS	2/20
Drawn	By	Date	In Charge of	By	Date
	GW	2/20		RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

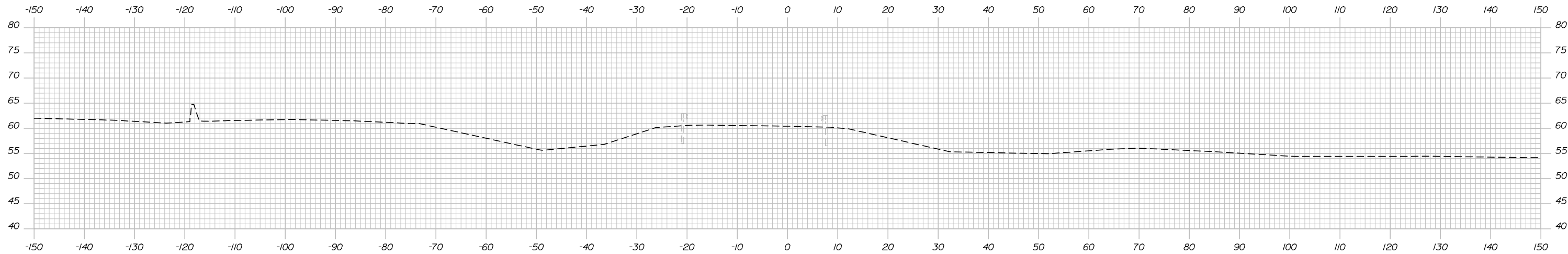
CONTRACT: 2020.03

SHEET NUMBER: XS-163

259 OF 310

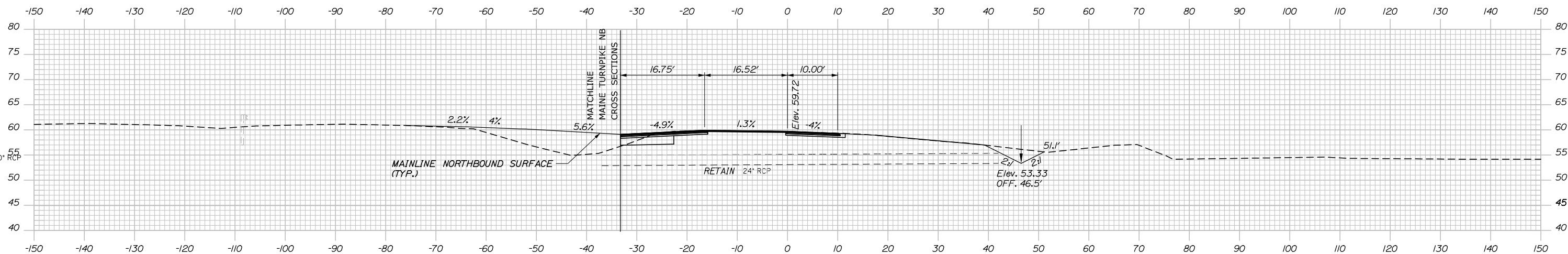
Date: 2/25/2020

Filename: PAW1_Cross_Section_NB_46_OFF-6.dgn

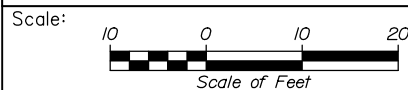


68+00.00

C = 96.0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



67+50.00



Designed by:



CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date	By	Date

Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 NB OFF CROSS SECTIONS
 STA. 67+50 TO STA. 68+00

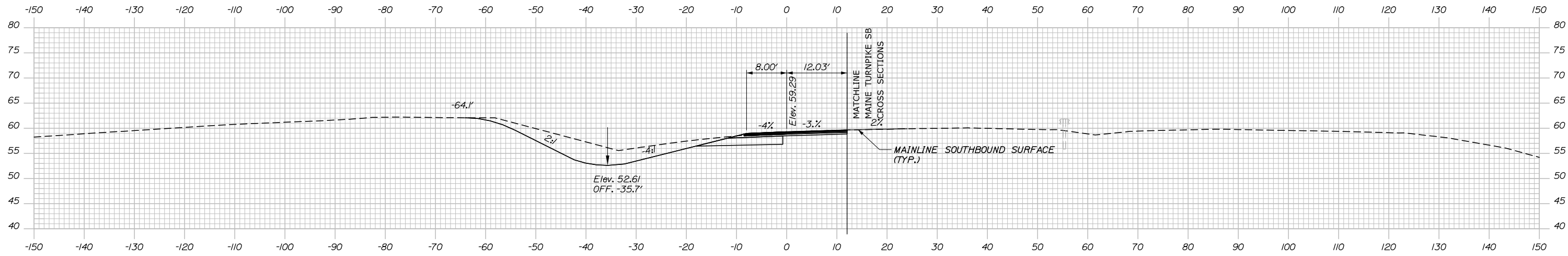
SHEET NUMBER: XS-164

CONTRACT: 2020.03

260 OF 310

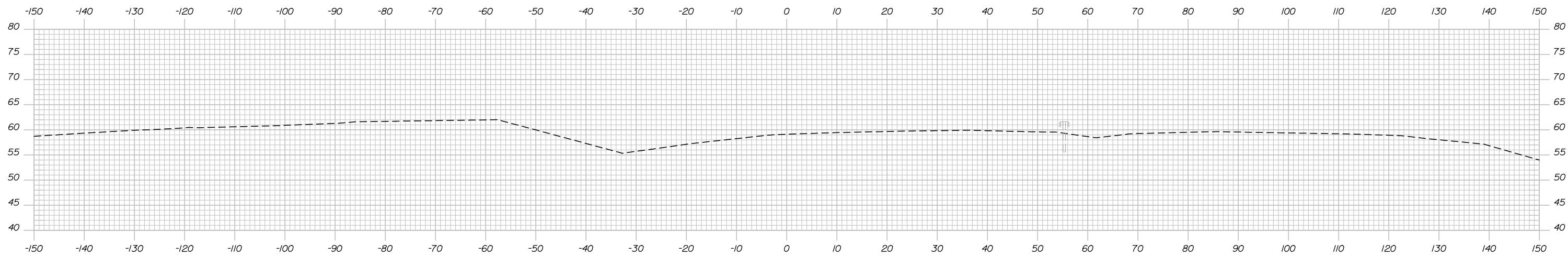
Date: 2/25/2020

C = 137.5 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



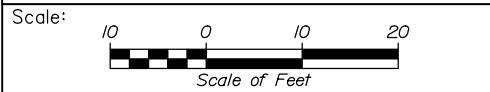
41+50.00

C = 0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



41+00.00

Filename: PAW1_Cross_Section_SB_46_ON-1.dgn



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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	TR	TR	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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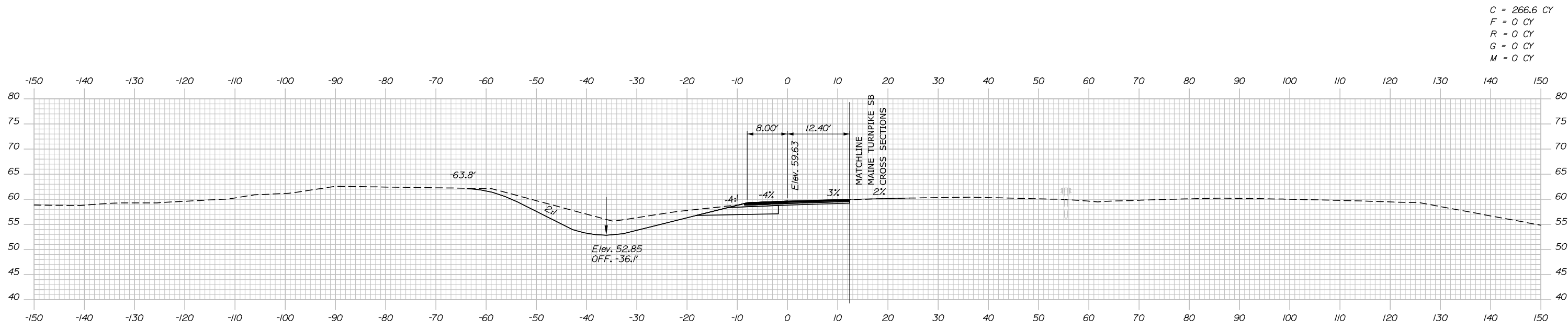
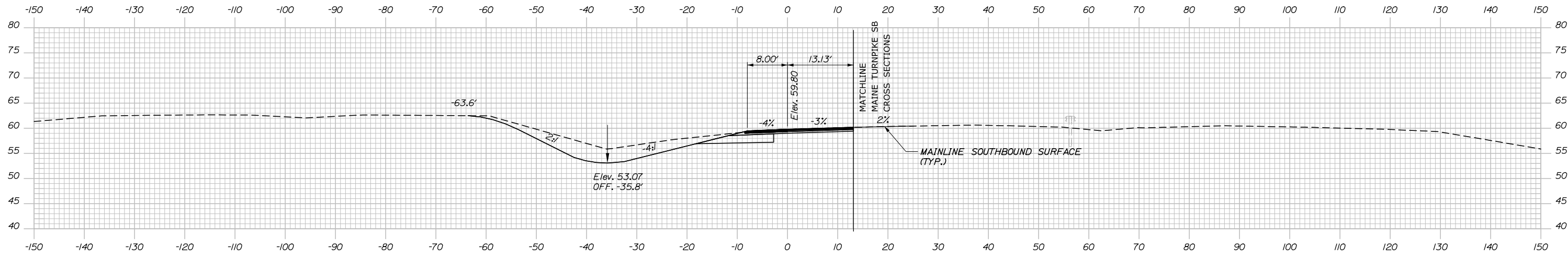
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 SB ON CROSS SECTIONS
 STA. 41+30 TO STA. 41+50

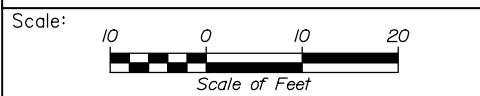
SHEET NUMBER: XS-165
 261 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



Filename: PAW1_Cross_Section_SB_46_ON-2.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

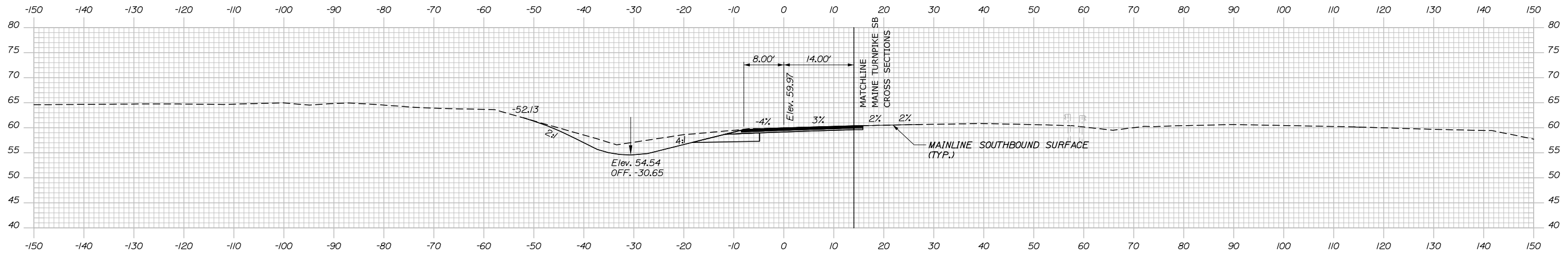
PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 SB ON CROSS SECTIONS
 STA. 42+00 TO STA. 42+50

SHEET NUMBER: XS-166
 262 OF 310

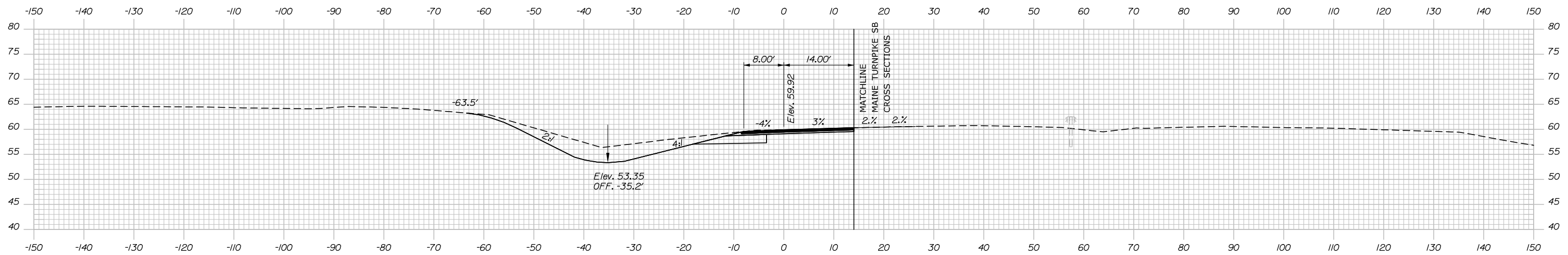
CONTRACT: 2020.03

Date: 2/25/2020

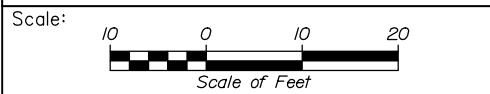
C = 220.3 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 255.4 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Filename: PAW1_Cross_Section_SB_46_ON-3.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date	By	Date

Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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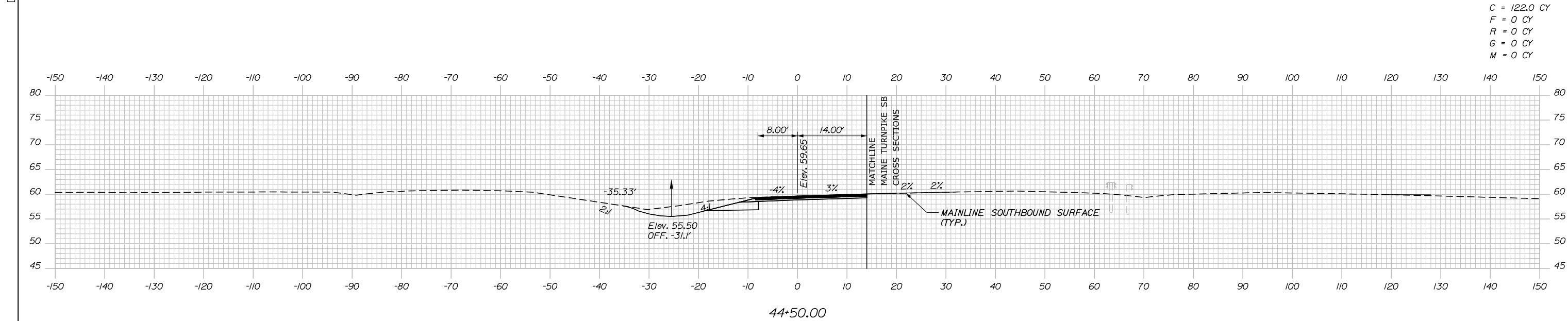
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 SB ON CROSS SECTIONS
 STA. 43+00 TO STA. 43+50

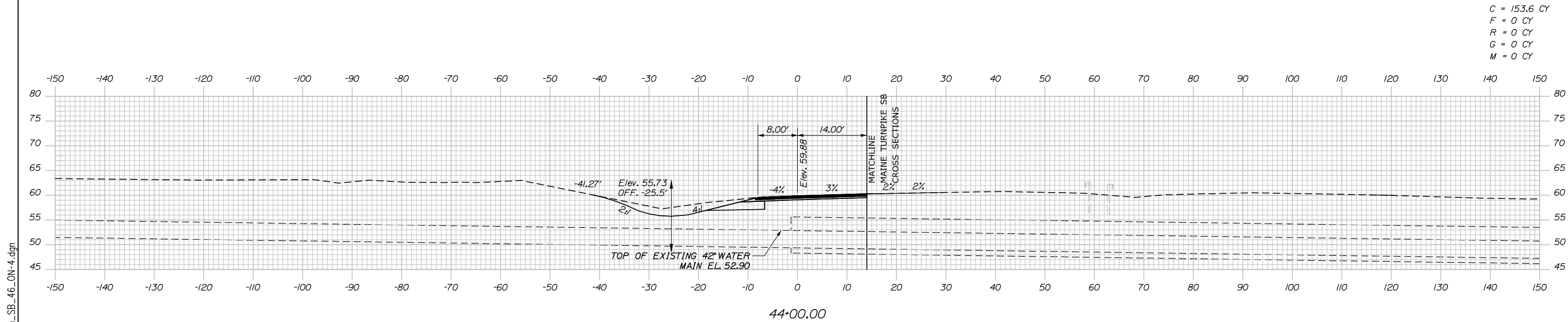
SHEET NUMBER: XS-167
 263 OF 310

CONTRACT: 2020.03

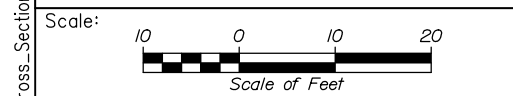
Date: 2/25/2020



C = 122.0 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



C = 153.6 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Designed by:

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CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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 TEL (207) 774-5155
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 SB ON CROSS SECTIONS
 STA. 44+00 TO STA. 44+50

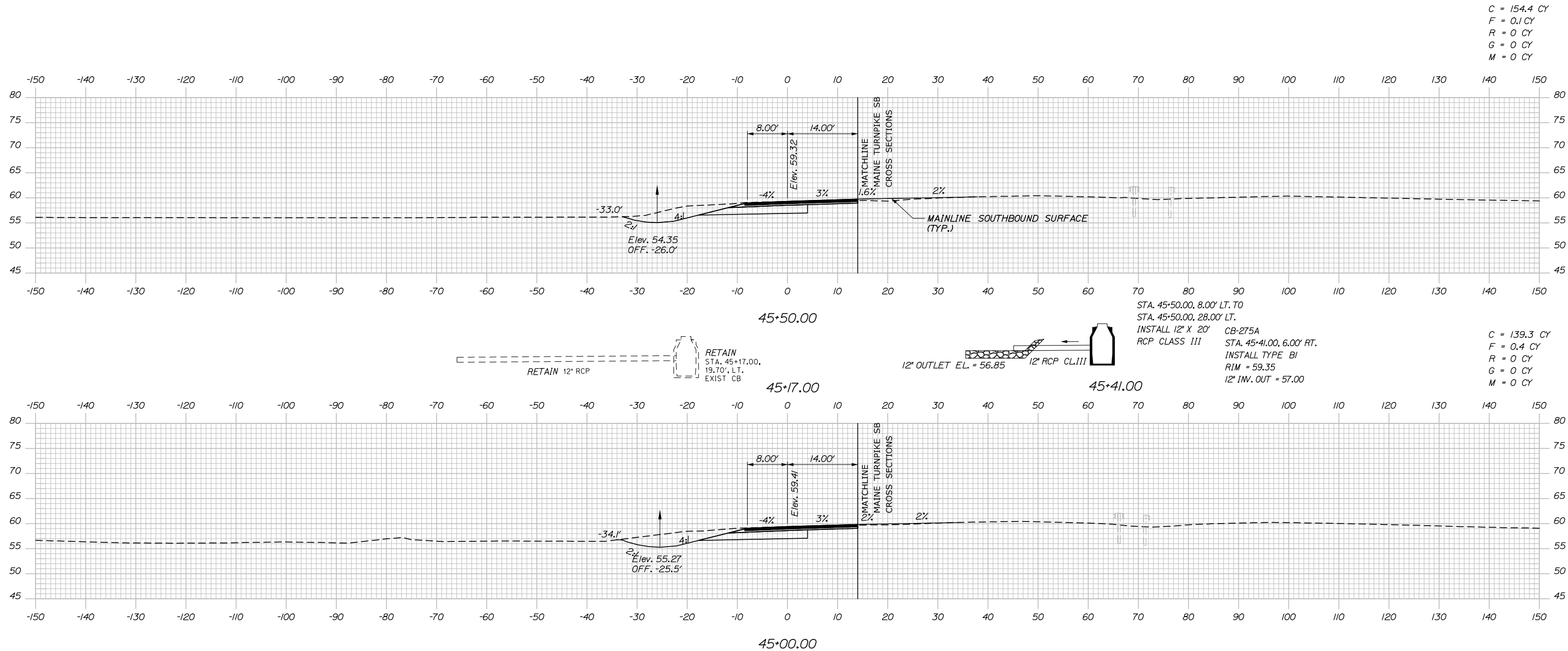
SHEET NUMBER: XS-168
 264 OF 310

CONTRACT: 2020.03

Filename: PAW1_Cross_Section_SB_46_ON-4.dgn

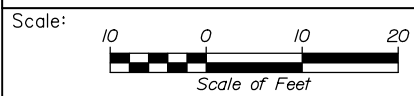
Date: 2/25/2020

Filename: PAW1_Cross_Section_SB_46_ON-5.dgn



C = 154.4 CY
 F = 0.1 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

C = 139.3 CY
 F = 0.4 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JS	2/20	TR	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

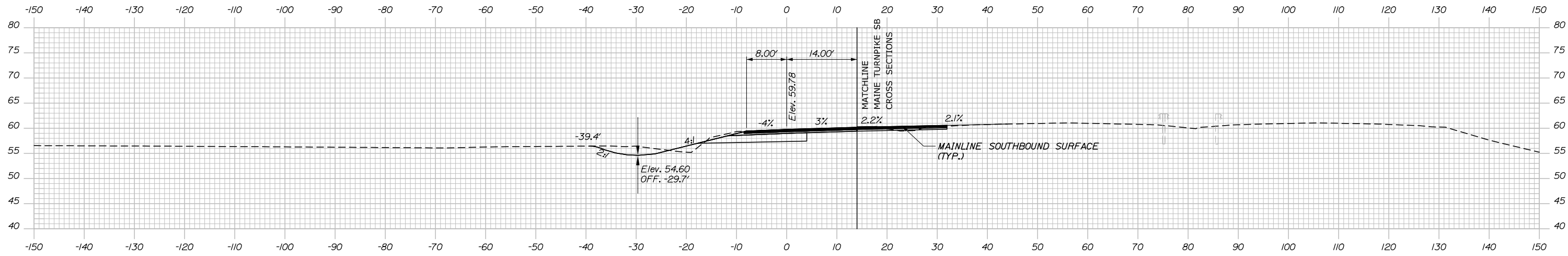
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 SB ON CROSS SECTIONS
 STA. 45+00 TO STA. 45+50

SHEET NUMBER: XS-169
 265 OF 310

CONTRACT: 2020.03

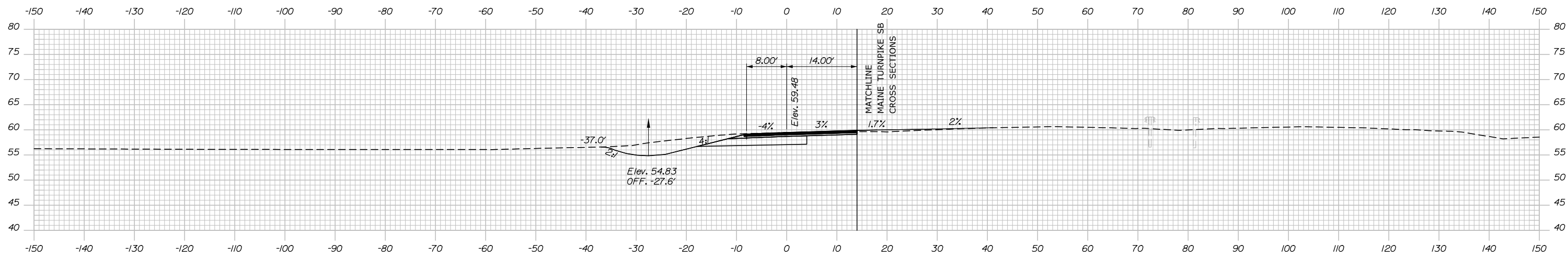
Date: 2/25/2020

C = 144.3 CY
 F = 5.2 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY

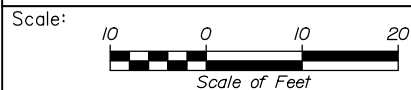


46+50.00

C = 159.3 CY
 F = 0 CY
 R = 0 CY
 G = 0 CY
 M = 0 CY



46+00.00



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THE GOLD STAR
 MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MM 43.0 TO MM 46.4
 RAMP 46 SB ON CROSS SECTIONS
 STA. 46+00 TO STA. 46+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date	Checked	By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-170

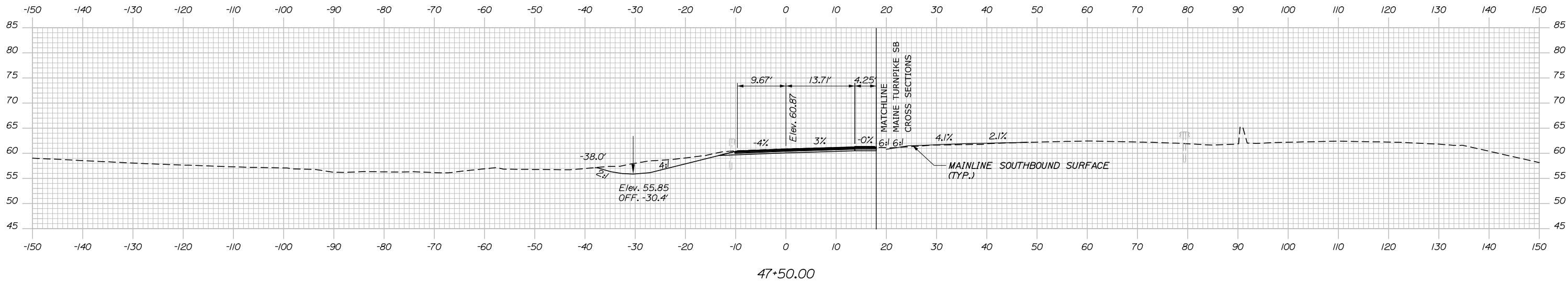
266 OF 310

Filename: PAW1_Cross_Section_SB_46_ON-6.dgn

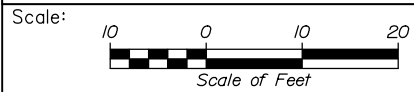
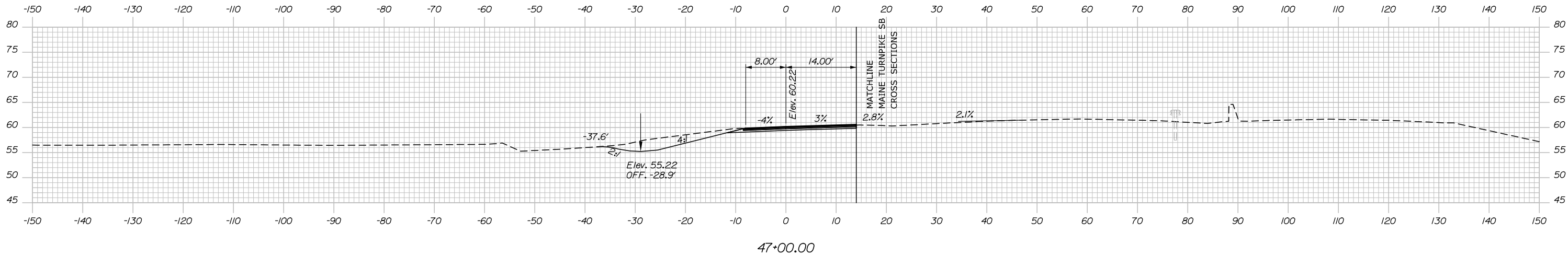
Date: 2/25/2020

STA. 47+60.00
MATCH EXISTING PAVEMENT
LIMIT OF WORK

C = 103.1 CY
F = 0 CY
R = 0 CY
G = 0 CY
M = 0 CY



C = 109.5 CY
F = 5.2 CY
R = 0 CY
G = 0 CY
M = 0 CY



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THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MM 43.0 TO MM 46.4
RAMP 46 SB ON CROSS SECTIONS
STA. 47+00 TO STA. 47+50

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date		By	Date
Designed	JS	2/20	Checked	TRS	2/20
Drawn	GW	2/20	In Charge of	RAL	2/20

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-171

267 OF 310

Filename: PAW1_Cross_Section_SB_46_ON-7.dgn

SPECIFICATIONS

DESIGN

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

CONSTRUCTION

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, REVISION OF NOVEMBER 2014.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS FOR HIGHWAYS AND BRIDGES, NOVEMBER 2014 WITH LATEST REVISIONS.

AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 4TH EDITION.

DESIGN LOADING

LIVE LOAD - HL-93

MATERIALS

CONCRETE

CLASS AAA
CLASS P

REINFORCING STEEL

AASHTO M31, GRADE 60 EPOXY COATED
ASTM A884 EPOXY COATED WELDED WIRE FABRIC

ANCHOR BOLTS

ASTM A307 HOT DIP GALVANIZED

STRUCTURAL STEEL

STEEL H-PILES INCLUDING PILE TIPS, ASTM A572, GRADE 50

BASIC DESIGN STRESSES

CONCRETE - CLASS AAA - $f'_c = 4,500$ P.S.I.; CLASS P - $f'_c = 4,500$ P.S.I.

REINFORCING STEEL - $f_y = 60,000$ P.S.I.

ANCHOR BOLTS - $F_t = 45$ KSI; $F_v = 24$ KSI

STRUCTURAL STEEL - AASHTO M270 (ASTM A572), GRADE 50; $F_y = 50,000$ P.S.I.

GENERAL NOTES:

1. THE PROPOSED ELEVATIONS ARE BASED ON THE NAVD 88 DATUM. SOME AS-BUILT PLANS ARE BASED ON NGVD 29 DATUM.
2. COPIES OF THE AS-BUILT PLANS ARE ON FILE AT THE MAINE TURNPIKE AUTHORITY. THE ACCURACY OF THESE PLANS IS NOT GUARANTEED.
3. REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2", UNLESS OTHERWISE NOTED.
4. CHAMFER ALL EXPOSED CONCRETE EDGES $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.
5. CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED TO THE FOLLOWING AREAS:
- EXPOSED SURFACES OF CULVERT HEADWALLS AND RETAINING WALLS AND EXTEND 1 FOOT BELOW FINISHED GRADE;
- ALL VERTICAL, SLOPED, AND TOP SURFACES OF MEDIAN BARRIER, PIER PROTECTION BARRIER, EARTH RETAINING BARRIER, AND BARRIER TRANSITION PIECES, INCLUDING BARRIER ENDS AND EXCLUDING BURIED OVERTURNING SLABS
6. PIGMENTED PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED TO EXPOSED SURFACES OF THE ABUTMENTS AND WINGWALLS WHERE SLOPE PROTECTION MODIFICATIONS ARE REQUIRED. SURFACES OF ABUTMENTS AND WINGWALLS EXPOSED IN THEIR EXISTING CONDITION SHALL NOT RECEIVE PIGMENTED PROTECTIVE COATING. SEE SLOPE PAVEMENT MODIFICATIONS SHEETS FOR DETAILS.
7. WHERE DRILLING AND ANCHORING OF REINFORCING STEEL IS SPECIFIED THE CONTRACTOR SHALL USE A MATERIAL LISTED ON THE MAINE DOT PREQUALIFIED LIST OF CHEMICAL ANCHORING MATERIALS. THE DEPTH OF EMBEDMENT SHALL BE SUFFICIENT TO DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR, BUT SHALL BE NO LESS THAN THE MINIMUM DEPTH OF EMBEDMENT WHEN SPECIFIED.
8. DIMENSIONS WITH RESPECT TO EXISTING STRUCTURES ARE APPROXIMATE AND ARE PROVIDED FOR REFERENCE. IF FIELD CONDITIONS VARY BY MORE THAN 1" FROM DIMENSIONS SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED.


QUANTITY TABLE			
ITEM NO.	DESCRIPTION	UNIT	STRUCTURAL QUANTITY
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	CY	14
203.33	SPECIAL FILL	CY	54
203.34	LIGHTWEIGHT FILL	CY	290
501.231	DYNAMIC LOAD TEST	EA	2
501.50	STEEL H-BEAM PILES 89 LB/FT, DELIVERED	LF	1760
501.501	STEEL H-BEAM PILES 89 LB/FT, IN PLACE	LF	1760
501.90	PILE TIPS	EA	16
501.91	PILE SPLICES	EA	16
501.92	PILE DRIVING EQUIPMENT AND MOBILIZATION	LS	1
509.202	CULVERT SLIPLINING	LS	1
511.071	COFFERDAM - RED BROOK NB	LS	1
511.072	COFFERDAM - RED BROOK SB	LS	1
511.073	COFFERDAM - LONG CREEK NB	LS	1
511.074	COFFERDAM - LONG CREEK SB	LS	1
513.09	SLOPE PAVEMENT MODIFICATIONS	SY	450
514.06	CURING BOX FOR CONCRETE CYLINDERS	EA	1
515.201	PIGMENTED PROTECTIVE COATING FOR CONCRETE SURFACES	SY	20
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	SY	110
518.60	REPAIR OF VERTICAL SURFACES < 8 INCHES	SF	150
526.351	MEDIAN BARRIER - TYPE A (11,250 LF)	LS	1
526.352	MEDIAN BARRIER - TYPE B (3,575 LF)	LS	1
526.353	MEDIAN BARRIER - TYPE C (280 LF)	LS	1
526.354	MEDIAN BARRIER - TYPE D (1,550 LF)	LS	1
526.355	EARTH RETAINING BARRIER (780 LF)	LS	1
526.362	TYPE C TRANSITION BARRIER	EA	2
526.363	TYPE D TRANSITION BARRIER	EA	12
526.364	OHSS FOUNDATION TRANSITION BARRIER	EA	6
526.365	MEDIAN GUARDRAIL TRANSITION BARRIER	EA	1
526.366	GUARDRAIL TRANSITION BARRIER	EA	5
603.28	CONCRETE COLLAR	EA	1
603.50	78 INCH REINFORCED CONC. PIPE CLASS IV	LF	8
606.1723	BRIDGE TRANSITION - TYPE III	EA	5
606.1724	BRIDGE TRANSITION - TYPE III MODIFIED	EA	1
610.08	PLAIN RIPRAP	CY	49
626.38	GROUND MOUNTED CABINET FOUNDATION	EA	2
626.701	VMS FOUNDATIONS - CROSBY	LS	1
645.12	OVERHEAD GUIDE SIGN: (STA 2133+14)	LS	1
650.101	VARIABLE MESSAGE SIGN (VMS) SYSTEM - HOLMES ROAD	LS	1
650.102	VARIABLE MESSAGE SIGN (VMS) SYSTEMS - CROSBY	LS	1
650.201	VMS GROUND MOUNTED CONTROL CABINET - HOLMES ROAD	EA	1
650.202	VMS GROUND MOUNTED CONTROL CABINET - CROSBY	EA	1
650.801	VMS POWER SYSTEM - HOLMES ROAD	LS	1
650.802	VMS POWER SYSTEM - CROSBY	LS	1
674.10	PREFABRICATED CONCRETE MODULAR GRAVITY WALL - RED BROOK	LS	1
674.10	PREFABRICATED CONCRETE MODULAR GRAVITY WALL - LONG CREEK	LS	1

LIST OF ABBREVIATIONS

ABUT. - ABUTMENT	EXIST. - EXISTING	PROP. - PROPOSED
ADDL. - ADDITIONAL	EXP. - EXPANSION	P.S.I. - POUNDS per SQUARE INCH
ALT. - ALTERNATE	F.F. - FAR FACE	RCP - REINFORCED CONCRETE PIPE
APPROX. - APPROXIMATELY	JT. - JOINT	RDWY. - ROADWAY
BOT. - BOTTOM	LF - LINEAR FOOT	RT. - RIGHT
BRG. - BEARING	LT. - LEFT	SHLDR. - SHOULDER
CB - CATCH BASIN	MAX. - MAXIMUM	SB - SOUTHBOUND
CIP - CAST IN PLACE	MEDOT - MAINE DEPARTMENT OF TRANSPORTATION	SF - SQUARE FEET
CL - CLEAR/CLASS	MIN. - MINIMUM	SP. - SPACES
CL - CENTERLINE	MTA - MAINE TURNPIKE AUTHORITY	STA. - STATION
CONC. - CONCRETE	NB - NORTHBOUND	TEMP. - TEMPORARY
CONSTR. - CONSTRUCTION	N.F. - NEAR FACE	T.&B. - TOP & BOTTOM
CY - CUBIC YARD	N.T.S. - NOT TO SCALE	TPKE. - TURNPIKE
DEMO. - DEMOLITION	OC - ON CENTER	TYP. - TYPICAL
DIA. - DIAMETER	OHSS - OVERHEAD SIGN STRUCTURE	U.O.N. - UNLESS OTHERWISE NOTED
EA. - EACH	OPT - OPTION	VERT. - VERTICAL
EB - EASTBOUND	PED. - PEDESTAL	V.I.F. - VERIFY IN FIELD
E.F. - EACH FACE	PGL - PROFILE GRADE LINE	WB - WESTBOUND
EL - ELEVATION	PL - PLATE	W.P. - WORKING POINT
EQ. - EQUAL		WW - WINGWALL

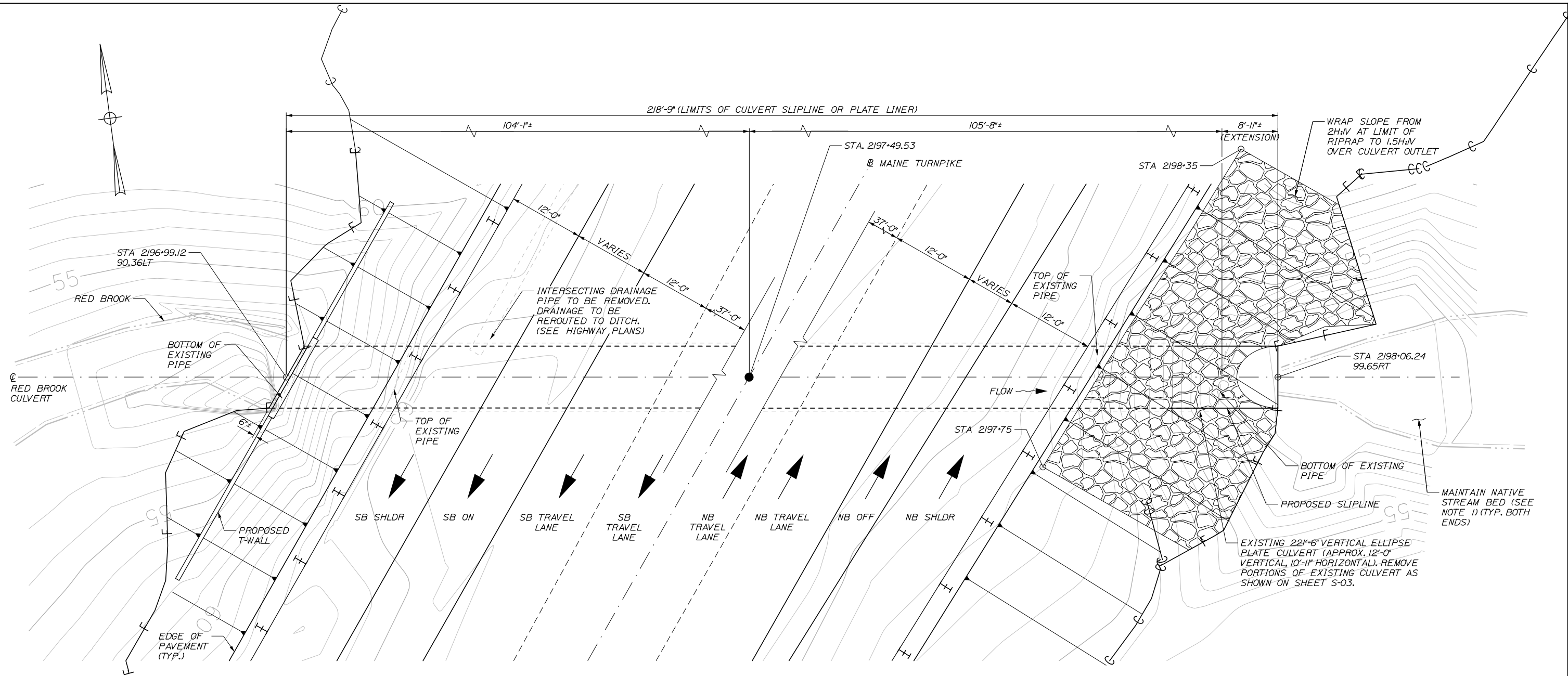
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Filename: PAW1_GeneralNotes

Scale: NO SCALE	Designed by: HNTB	HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909	 THE GOLD STAR MEMORIAL HIGHWAY	PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS GENERAL NOTES																																			
<table border="1"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	Revision	By	Date													<table border="1"> <thead> <tr> <th colspan="4">CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.</th> </tr> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>BRG</td> <td>02\20</td> <td>Checked JDW 02\20</td> </tr> <tr> <td>Drawn</td> <td>ERB</td> <td>02\20</td> <td>In Charge of RAL 02\20</td> </tr> </tbody> </table>	CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					By	Date		Designed	BRG	02\20	Checked JDW 02\20	Drawn	ERB	02\20	In Charge of RAL 02\20	<table border="1"> <thead> <tr> <th colspan="2">MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE				CONTRACT:2020.03 SHEET NUMBER: S-01 268 OF 310
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Date: 2/25/2020

Filename: PAW1_Red Brook Culvert Modifications - General Plan



NATIVE STREAMBED NOTES:

1. THE CONTRACTOR SHALL REMOVE THE EXISTING STREAM BED TO A DEPTH OF APPROXIMATELY 1 FOOT, STOCKPILE, AND REPLACE THE MATERIAL INTO THE FINAL STREAMBED AND CULVERT EXTENSION AFTER CULVERT SLIPLINING.
2. THE REPLACED STREAMBED MATERIAL SHALL CREATE AN AVERAGE DEPTH OF 1 FOOT AND CONSIST OF MIXED MATERIAL RANGING FROM APPROXIMATELY 6" DIAMETER OR SMALLER AGGREGATE TO APPROXIMATELY 18" DIAMETER COBBLES PLACED TO THE SATISFACTION OF THE RESIDENT AND IN ACCORDANCE WITH NOTE 3. THE FINAL PLACEMENT SHALL HOLD A 1 FOOT DEPTH OF WATER IN THE MAINSTEM OF PIPE AND PROVIDE RIFFLES AND POOLS THROUGHOUT THE MATERIAL PLACEMENT.
3. THE CONTRACTOR SHALL PROVIDE THE RESIDENT WITH TIME TO TAKE ADDITIONAL AGGREGATE MEASUREMENTS AND PHOTOGRAPHS OF THE STREAMBED JUST PRIOR TO EXCAVATION TO FURTHER DOCUMENT THE MAKEUP OF STREAMBED MATERIAL. THE CONTRACTOR SHALL THEN COLLECT NATIVE STREAMBED MATERIAL FROM BELOW THE PROPOSED PIPE, AND ADDITIONAL MATERIAL FROM THE STREAM WITHIN THE FINAL EMBANKMENT SLOPE LIMITS, TO ENSURE SUFFICIENT QUANTITY OF NATIVE MATERIAL IS AVAILABLE TO PLACE IN THE PIPE INLET AND OUTLET.
4. EXCAVATED STREAMBED MATERIAL SHALL BE STOCKPILED IN A SEDIMENTATION BASIN UNTIL REUSE OF MATERIAL.

PLAN VIEW - RED BROOK CULVERT

SCALE: 1/8" = 1'-0"

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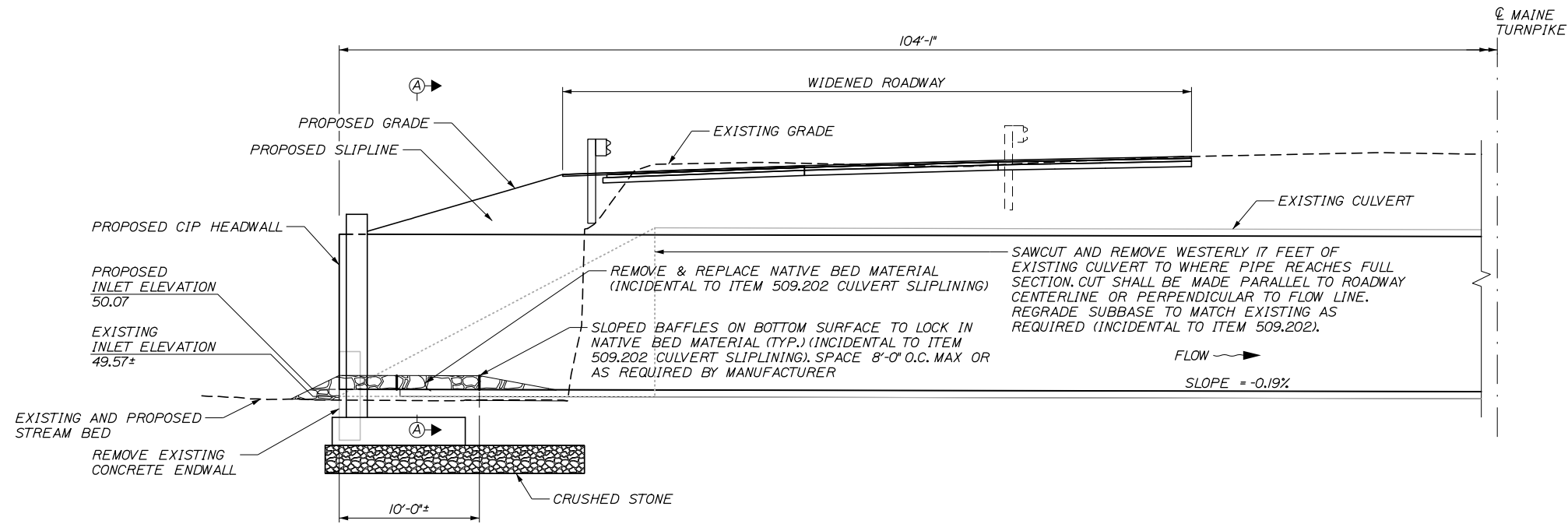
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
RED BROOK CULVERT MODIFICATIONS
GENERAL PLAN

SHEET NUMBER: S-02
269 OF 310

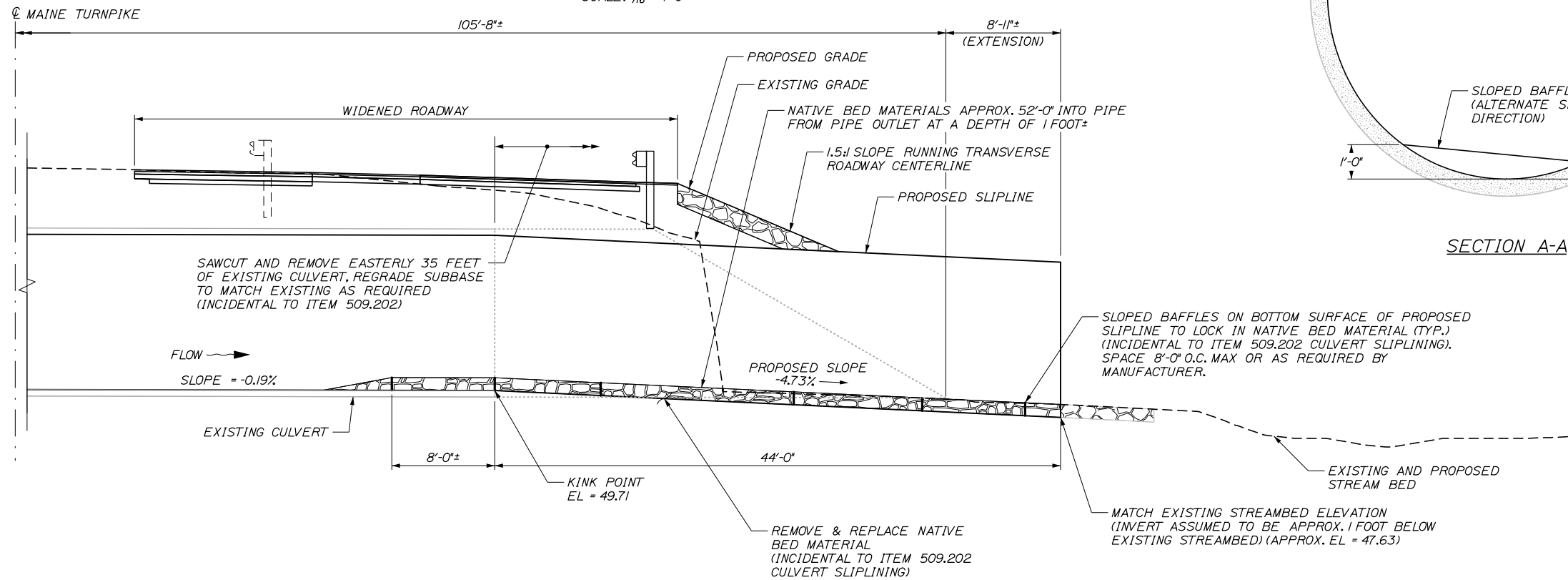
CONTRACT: 2020.03

Date: 2/25/2020

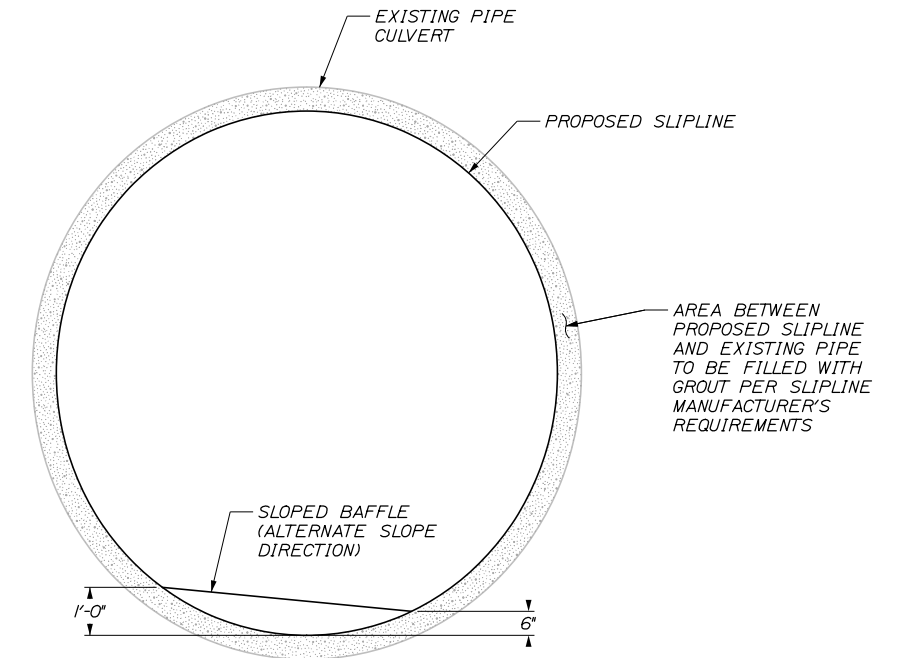
Filename: PAW1_Red Brook Culvert Modifications - General Section



RED BROOK CULVERT - SECTION VIEW WEST END
SCALE: 3/16" = 1'-0"



RED BROOK CULVERT - SECTION VIEW EAST END
SCALE: 3/16" = 1'-0"



SECTION A-A

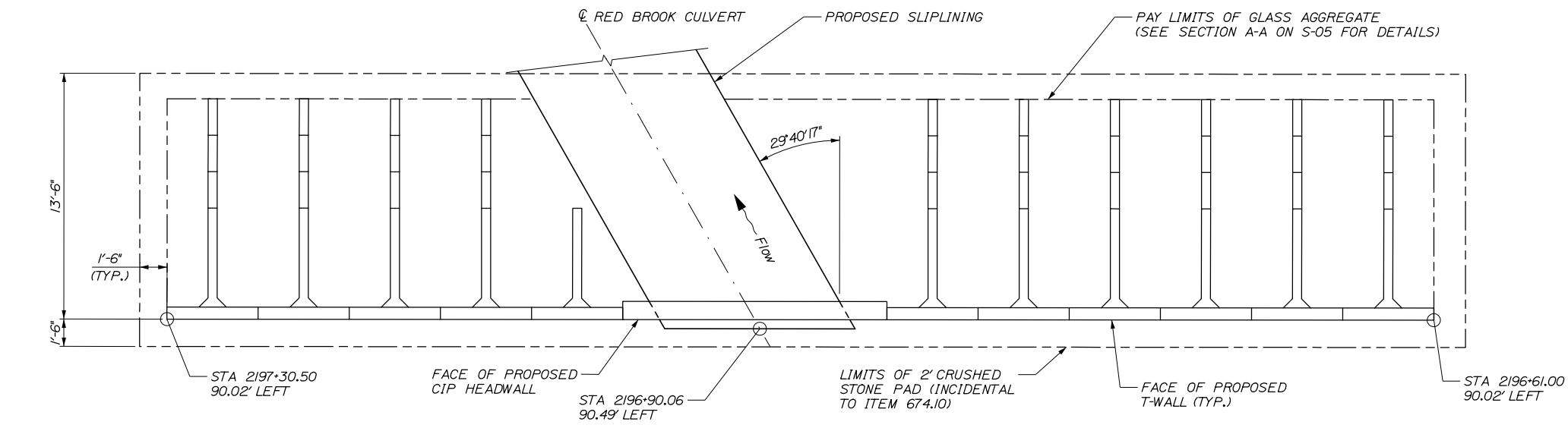
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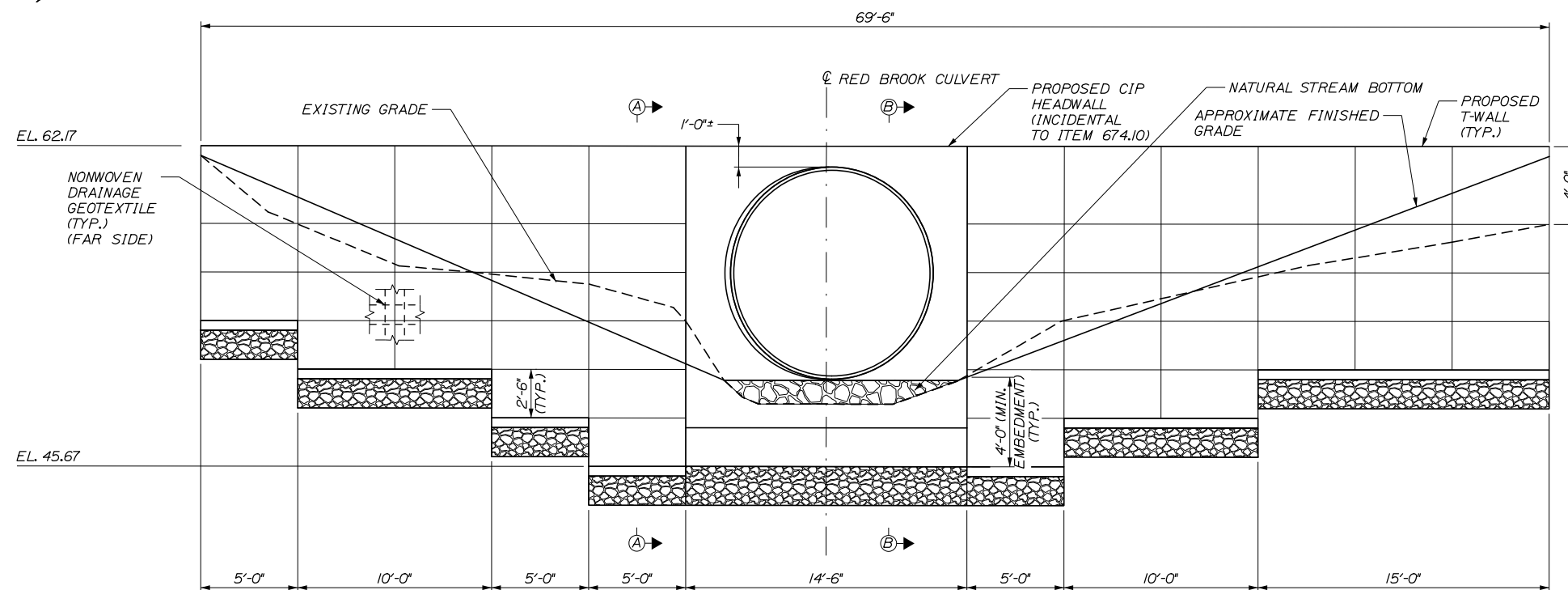
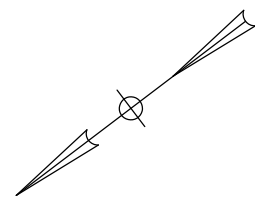
PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS RED BROOK CULVERT MODIFICATIONS GENERAL SECTION			
SHEET NUMBER: S-03 CONTRACT: 2020.03			
270 OF 310			

Date: 2/25/2020



WEST HEADWALL AND RETAINING WALL PLAN

SCALE: 1/4" = 1'-0"



WEST HEADWALL AND RETAINING WALL ELEVATION

LOOKING DOWNSTREAM
SCALE: 1/4" = 1'-0"

NOTES:

1. THE CONTRACTOR SHALL PROVIDE A PREFABRICATED CONCRETE MODULAR GRAVITY (PCMG) WALL IN ACCORDANCE WITH STANDARD SPECIFICATIONS 674. THE PCMG WALL SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND THE DESIGN SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
2. SELECT PRECAST UNITS FROM THE MAINEDOT PREQUALIFIED PRODUCTS LIST AND SUBMIT TO RESIDENT FOR APPROVAL.
3. THE FACTORED BEARING PRESSURE FOR PCMG WALLS SHALL NOT EXCEED THE FACTORED BEARING RESISTANCE SHOWN ON THESE PLANS.
4. THE PCMG WALL SHALL CONSIST OF CLASS P CONCRETE AND EPOXY COATED REINFORCING STEEL.
5. EXISTING CONCRETE HEADWALL AND APRONS SHALL BE REMOVED IN THEIR ENTIRETY. PAYMENT SHALL BE MADE UNDER ITEM 202.12.
6. EXCAVATION SHALL BE PERFORMED USING CARE SO AS NOT TO DISTURB THE SOFT CLAYS AND SILT WHERE PRESENT.
7. A GEOTEXTILE SEPARATION FABRIC SHALL BE PLACED OVER THE PREPARED SUBGRADE AND CRUSHED STONE PLACED TO THE BOTTOM OF THE RETAINING WALL ELEVATION. THE GEOTEXTILE SHALL BE CLASS I MATERIAL CONFIRMING TO STANDARD SPECIFICATION 722.00. WRAP FABRIC AROUND SIDES AND OVER THE TOP OF THE STONE PRIOR TO PLACING. WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 674.10.
8. NONWOVEN DRAINAGE GEOTEXTILE AND LEVELING PADS SHALL BE INCIDENTAL TO ITEM 674.10. NONWOVEN DRAINAGE GEOTEXTILE SHALL MEET THE REQUIREMENTS OF 722.02.
9. NATIVE BED MATERIAL AT CULVERT ENDS TO BE INSTALLED TO THE LIMITS SHOWN ON THE PLANS AND CONSIDERED INCIDENTAL TO PAY ITEM 509.202 CULVERT SLIPLINING.
10. COFFERDAMS SHALL BE USED DURING CONSTRUCTION TO MAINTAIN STREAM DURING CONSTRUCTION. COFFERDAMS SHALL BE INSTALLED AND OPERATED IN ACCORDANCE WITH MAINE DEP AND ARMY CORPS ENVIRONMENTAL PERMIT CONDITIONS. ALL SEDIMENTATION CONTROL PRACTICES, TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROLS, AND STREAM FLOW MAINTENANCE SHALL FOLLOW MAINE EROSION AND SEDIMENT CONTROL PRACTICES AND SHALL BE INCIDENTAL TO 511 COFFERDAM ITEMS.
11. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL EXPOSED SURFACES OF CIP HEADWALL AND T-WALL AND SHALL BE PAID FOR UNDER ITEM 515.202 CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES.
12. FOR SECTIONS A-A AND B-B, SEE SHEET S-05.
13. CRUSHED STONE FOR RETAINING WALL BACKFILL SHALL BE A 3/4" GRADATION IN CONFORMANCE WITH STANDARD SPECIFICATION 703.02 COARSE AGGREGATE FOR CONCRETE.

DESIGN BEARING PRESSURES:

STRENGTH LIMIT STATE

FACTORED BEARING RESISTANCE = 2.8 KSF
NOMINAL BEARING RESISTANCE = 5.1 KSF

EXTREME EVENT LIMIT STATE


FACTORED BEARING RESISTANCE = 2.5 KSF
NOMINAL BEARING RESISTANCE = 2.8 KSF

Filename: PAW1_Red Brook Culvert Modifications - Headwall and Wingwall

Scale:			
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

RED BROOK CULVERT MODIFICATIONS
HEADWALL AND WINGWALLS

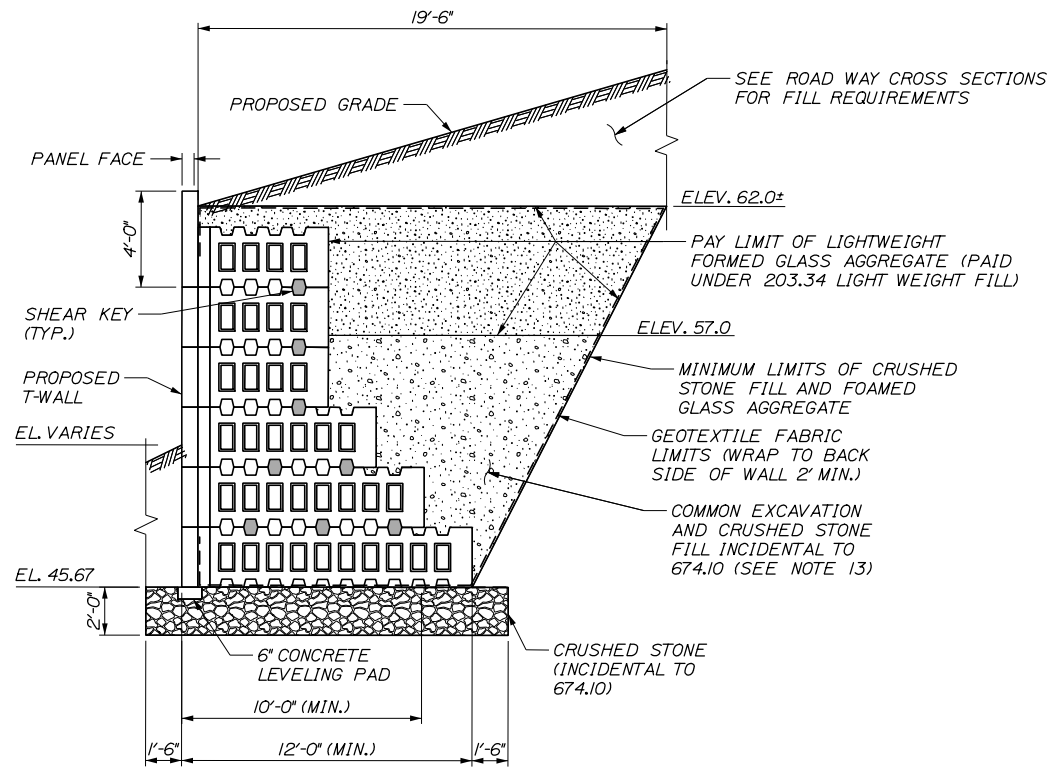
SHEET NUMBER: S-04

CONTRACT: 2020.03

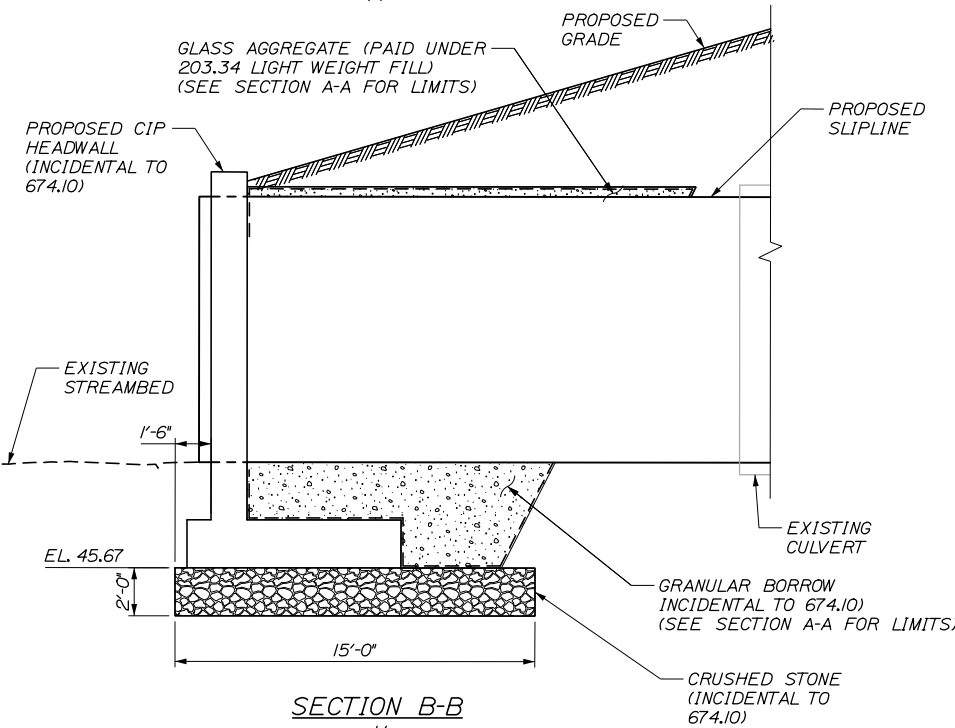
271 OF 310

Date: 2/25/2020

Filename: PAW1_Red Brook Culvert Modifications - Headwall and Wingwall - Details

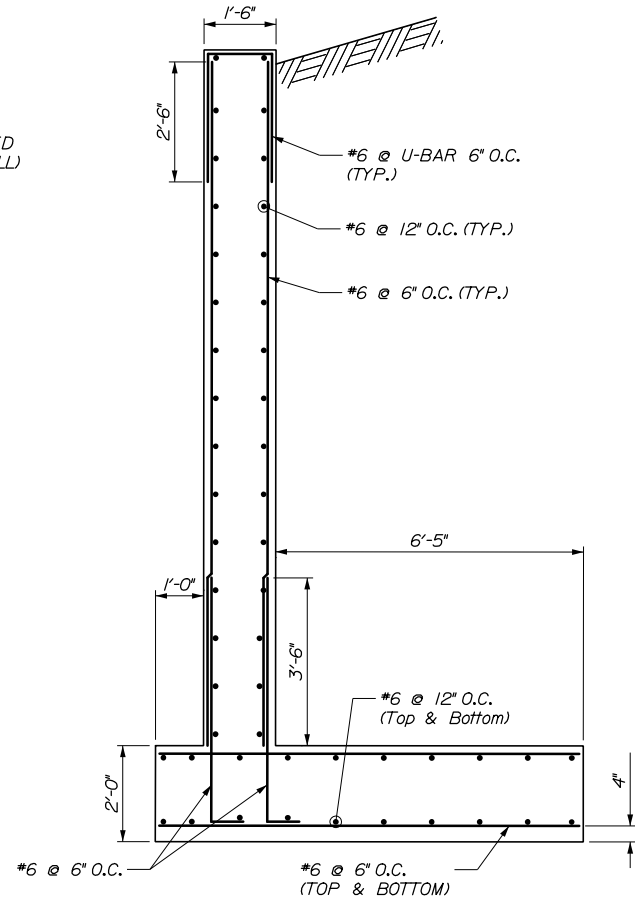


SECTION A-A
SCALE: 1/4" = 1'-0"



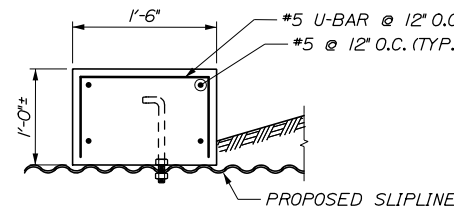
SECTION B-B
SCALE: 1/4" = 1'-0"

- NOTES:
- CIP HEADWALL SHALL BE STRUCTURAL CONCRETE CLASS AAA AND MEET REQUIREMENTS OF SPECIFICATION 502. PAYMENT SHALL BE MADE UNDER ITEM 674.10
 - ANCHOR BOLTS AND HARDWARE SHALL BE GRADE A307 GALVANIZED AFTER FABRICATION, OR APPROVED EQUAL FINAL DETAILS OF ANCHORAGE SHALL BE COORDINATED WITH THE SLIPLINE MANUFACTURER.

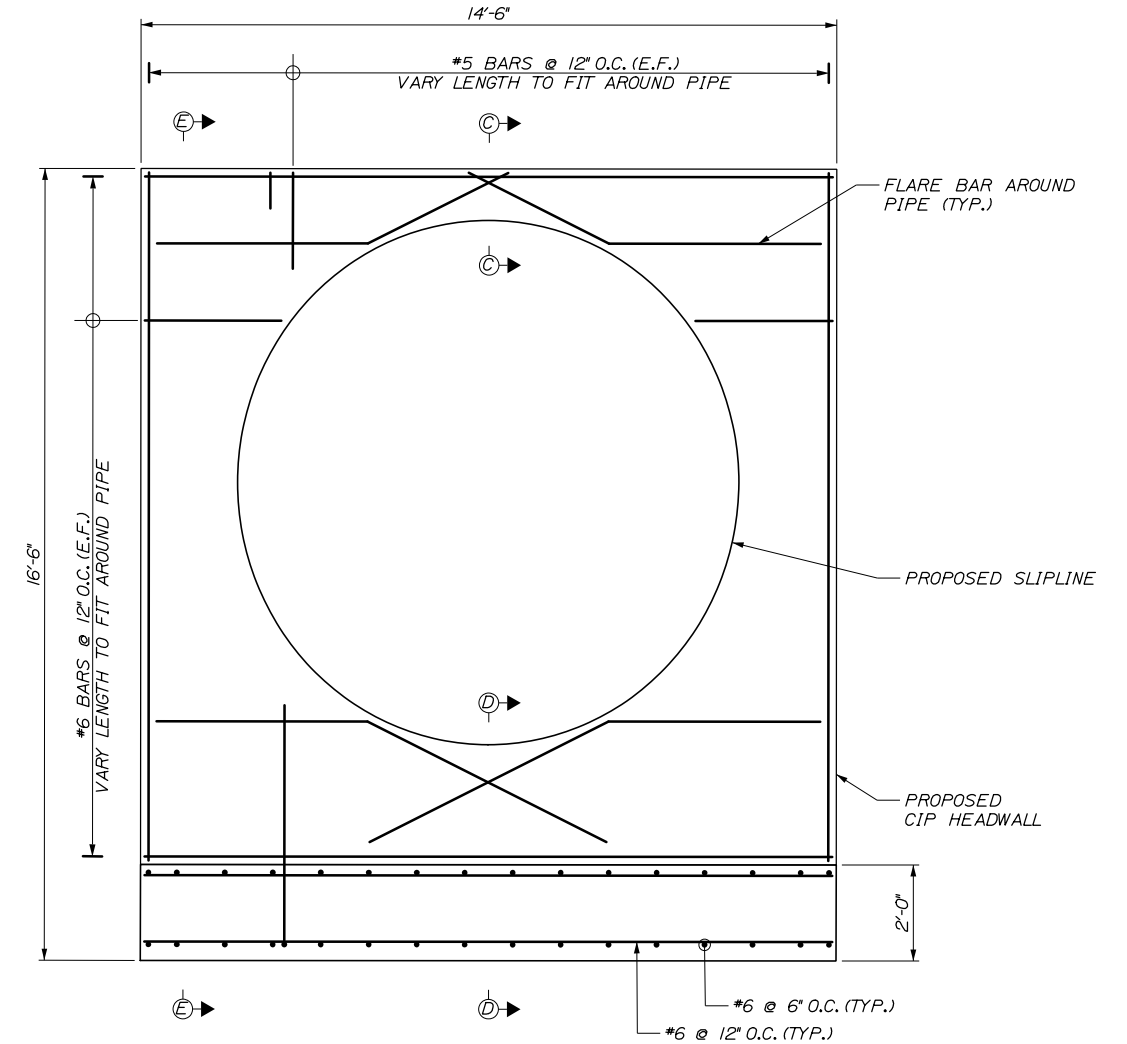


SECTION E-E
SCALE: 1/2" = 1'-0"

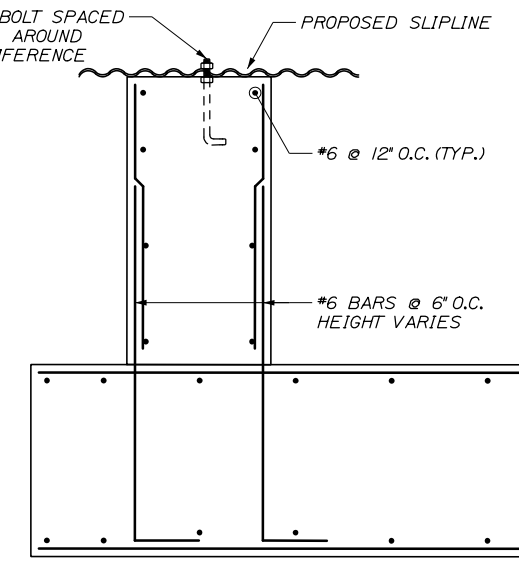
1/2" φ ANCHOR BOLT SPACED @ 18" O.C. MAX AROUND PIPE CIRCUMFERENCE (TYP.)



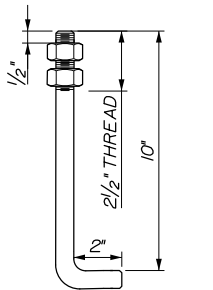
SECTION C-C
SCALE: 1" = 1'-0"



CIP HEADWALL DETAIL
SCALE: 1/2" = 1'-0"




SECTION D-D
SCALE: 1" = 1'-0"



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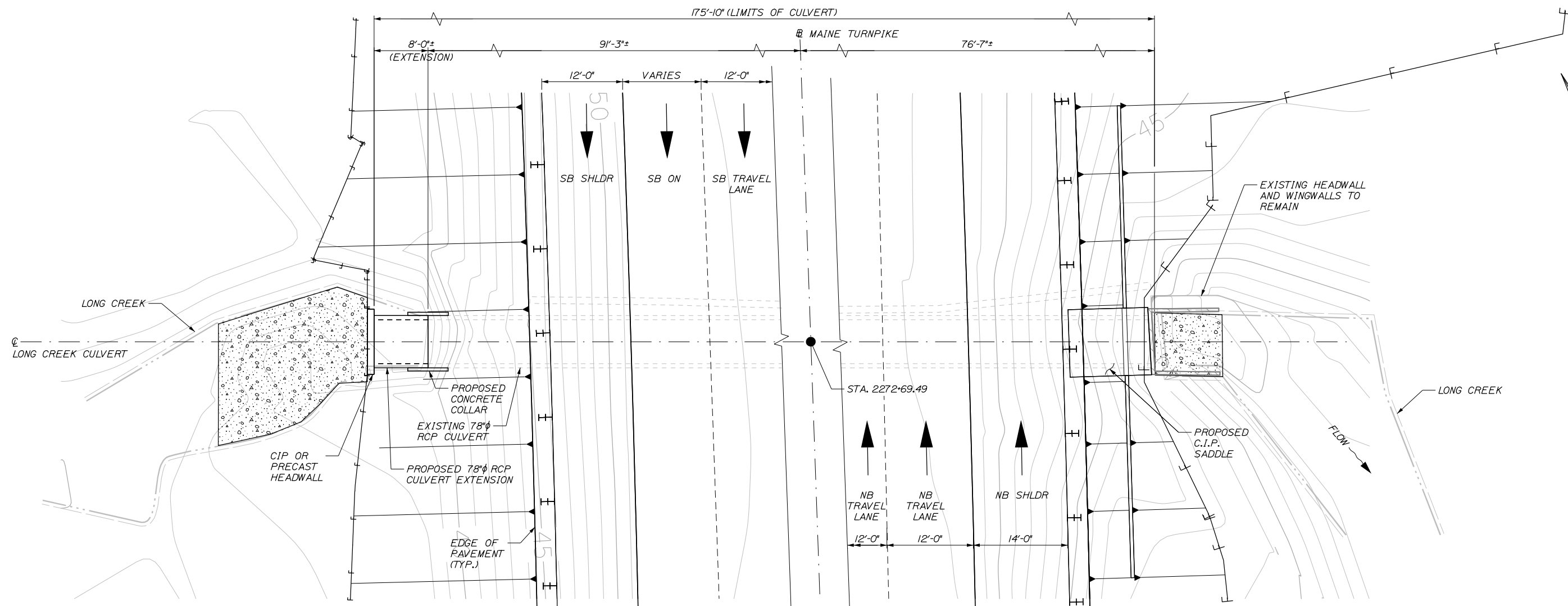
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RED BROOK CULVERT MODIFICATIONS
HEADWALL AND WINGWALLS DETAILS

SHEET NUMBER: S-05
CONTRACT: 2020.03
272 OF 310

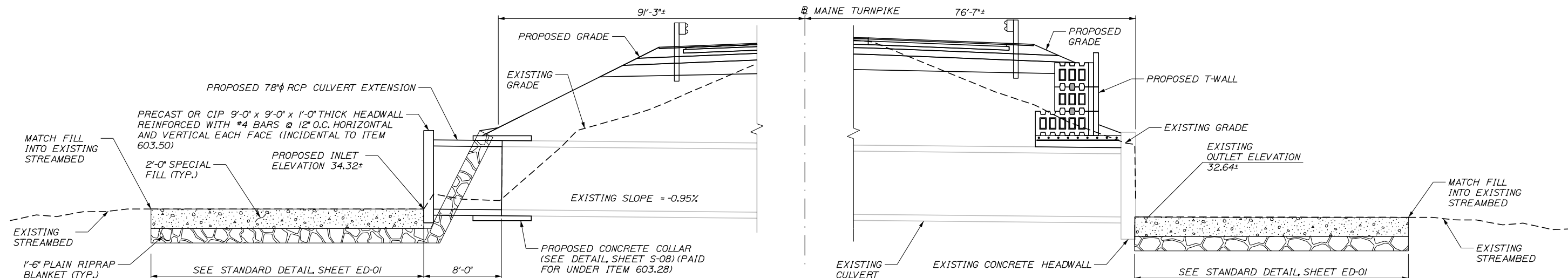
Date: 2/25/2020

Filename: PAW1_Long Creek Culvert Modifications - General Plan and Section



PLAN VIEW - LONG CREEK CULVERT

SCALE: 1/8" = 1'-0"



LONGITUDINAL SECTION - LONG CREEK CULVERT

SCALE: 3/16" = 1'-0"

Scale:				Designed by:			
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MAINE TURNPIKE

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PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS

LONG CREEK CULVERT MODIFICATIONS

GENERAL PLAN AND SECTION

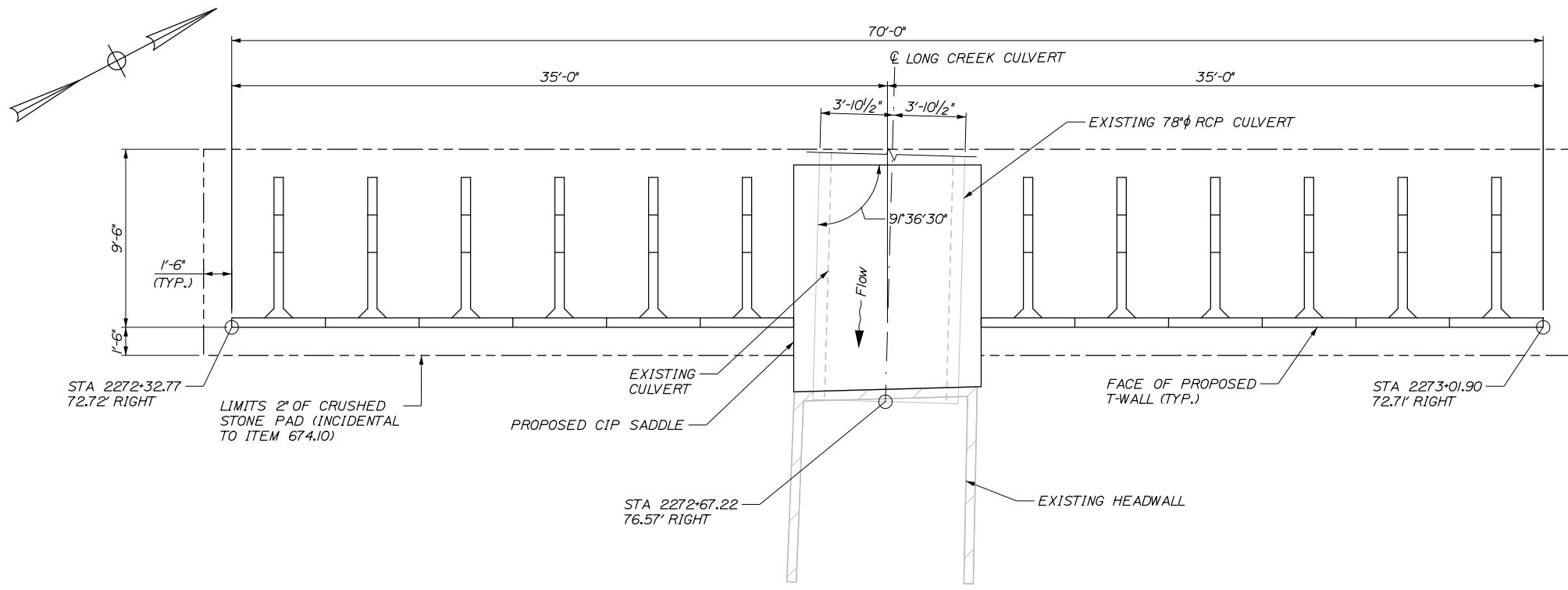
SHEET NUMBER: S-06

CONTRACT: 2020.03

273 OF 310

Date: 2/25/2020

Filename: PAW1_Long Creek Culvert Modifications - Headwall and Wingwall



EAST HEADWALL AND RETAINING WALL PLAN
SCALE: 1/4" = 1'-0"

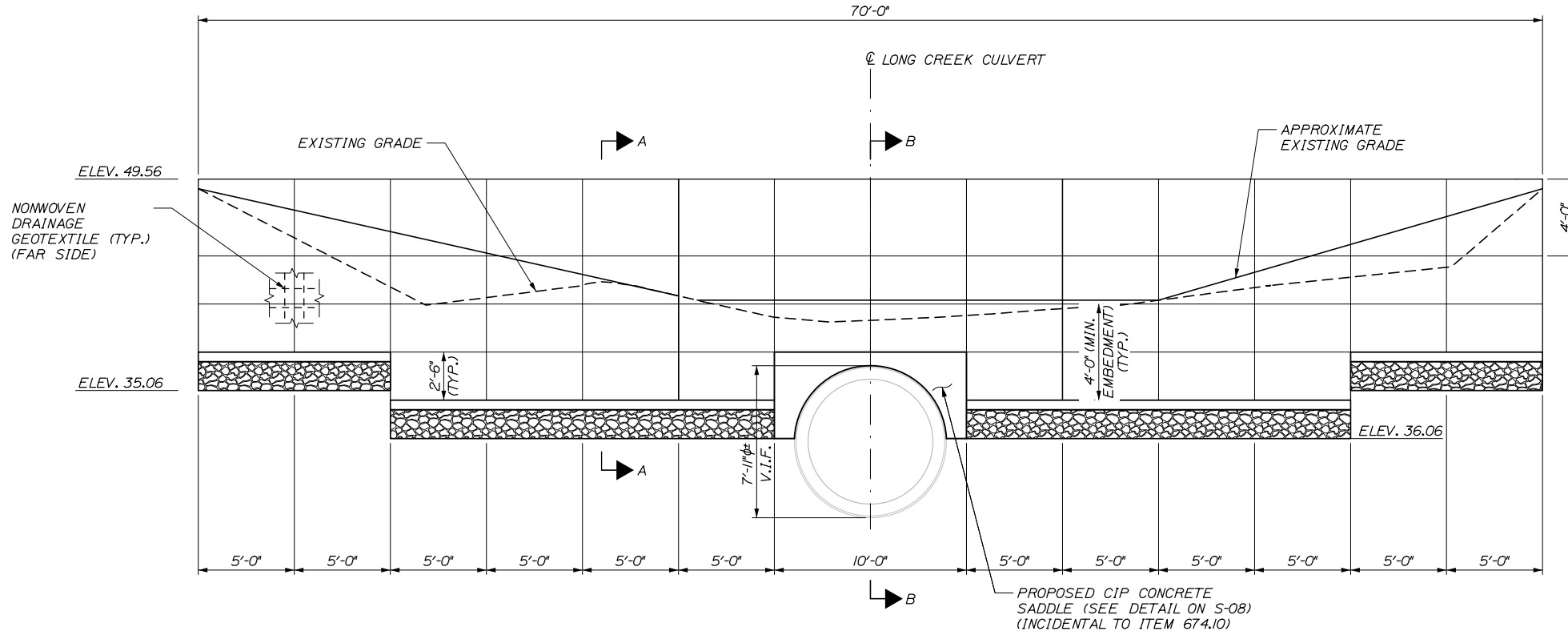
NOTES:

1. THE CONTRACTOR SHALL PROVIDE A PREFABRICATED CONCRETE MODULAR GRAVITY (PCMG) WALL IN ACCORDANCE WITH STANDARD SPECIFICATIONS 674. THE PCMG WALL SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND THE DESIGN SHALL BE SUBMITTED TO THE RESIDENT FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
2. SELECT PRECAST UNITS FROM THE MAINE DOT PREQUALIFIED PRODUCTS LIST AND SUBMIT TO RESIDENT FOR APPROVAL.
3. THE FACTORED BEARING PRESSURE FOR PCMG WALLS SHALL NOT EXCEED THE FACTORED BEARING RESISTANCE SHOWN ON THESE PLANS.
4. THE PCMG WALL SHALL CONSIST OF CLASS P CONCRETE AND EPOXY COATED REINFORCING STEEL.
5. EXCAVATION SHALL BE PERFORMED USING CARE SO AS NOT TO DISTURB THE SOFT CLAYS AND SILT WHERE PRESENT.
6. A GEOTEXTILE SEPARATION FABRIC SHALL BE PLACED OVER THE PREPARED SUBGRADE AND CRUSHED STONE PLACED TO THE BOTTOM OF THE RETAINING WALL ELEVATION. WRAP FABRIC AROUND SIDES AND OVER THE TOP OF THE STONE PRIOR TO PLACING THE HEADWALL AND WINGWALLS. WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 674.10.
7. DRAINAGE GEOTEXTILE AND LEVELING PADS SHALL BE INCIDENTAL TO ITEM 674.10. NON-WOVEN DRAINAGE GEOTEXTILE SHALL MEET THE REQUIREMENTS OF 722.02.
8. SPECIAL FILL AND RIPRAP AT CULVERT ENDS TO BE INSTALLED TO THE LIMITS SHOWN ON THE PLANS AND PAID UNDER ITEMS 203.33 AND 610.08 RESPECTIVELY.
9. COFFERDAMS SHALL BE USED DURING CONSTRUCTION TO MAINTAIN STREAM DURING CONSTRUCTION. COFFERDAMS SHALL BE INSTALLED AND OPERATED IN ACCORDANCE WITH MAINE DEP AND ARMY CORPS ENVIRONMENTAL PERMIT CONDITIONS. ALL SEDIMENTATION CONTROL PRACTICES, TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROLS, AND STREAM FLOW MAINTENANCE SHALL FOLLOW MAINE EROSION AND SEDIMENT CONTROL PRACTICES AND SHALL BE INCIDENTAL TO 511 COFFERDAM ITEMS.
10. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL EXPOSED SURFACES OF EXISTING HEADWALL, SADDLE, AND T-WALL AND SHALL BE PAID FOR UNDER ITEM 515.202 CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES.
11. FOR SECTIONS A-A AND B-B, SEE SHEET S-08.

DESIGN BEARING PRESSURES:

STRENGTH LIMIT STATE
FACTORED BEARING RESISTANCE = 6.1 KSF
NOMINAL BEARING RESISTANCE = 11.0 KSF

EXTREME EVENT LIMIT STATE
FACTORED BEARING RESISTANCE = 6.5 KSF
NOMINAL BEARING RESISTANCE = 7.2 KSF




EAST HEADWALL AND RETAINING WALL ELEVATION
(LOOKING UPSTREAM)
SCALE: 1/4" = 1'-0"

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PORTLAND AREA WIDENING &
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LONG CREEK CULVERT MODIFICATIONS
HEADWALL AND WINGWALL

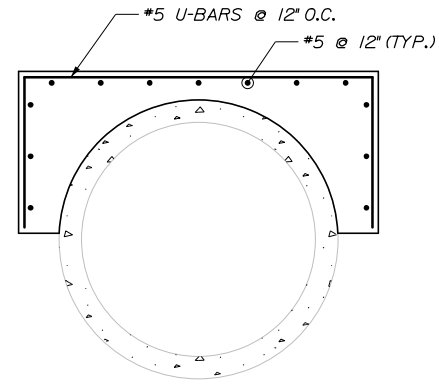
SHEET NUMBER: S-07

CONTRACT: 2020.03

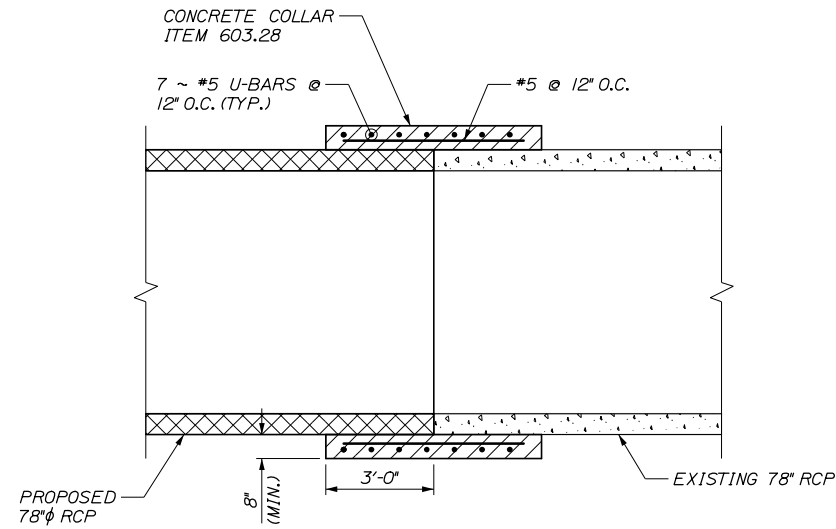
274 OF 310

Date: 2/25/2020

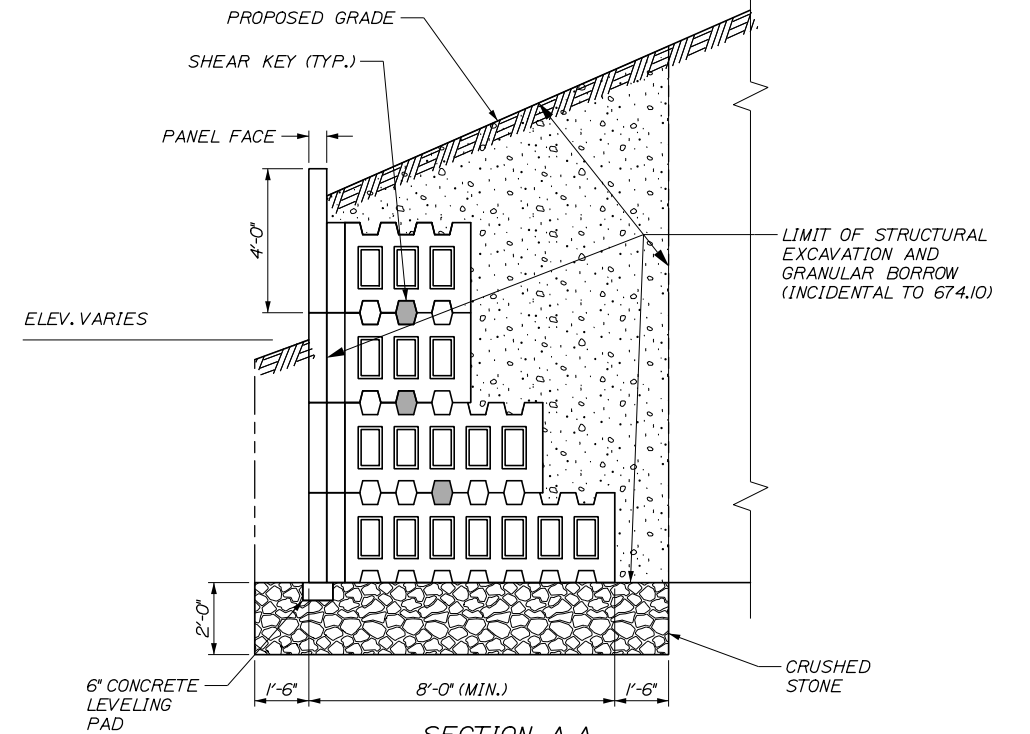
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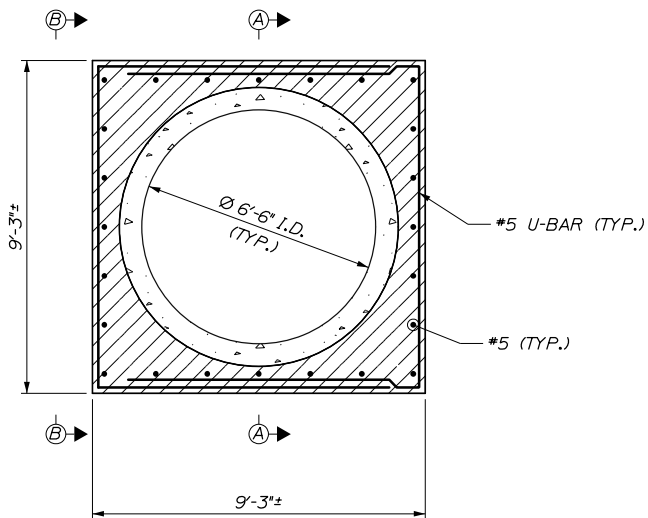
CIP SADDLE DETAIL
3/8" = 1'-0"



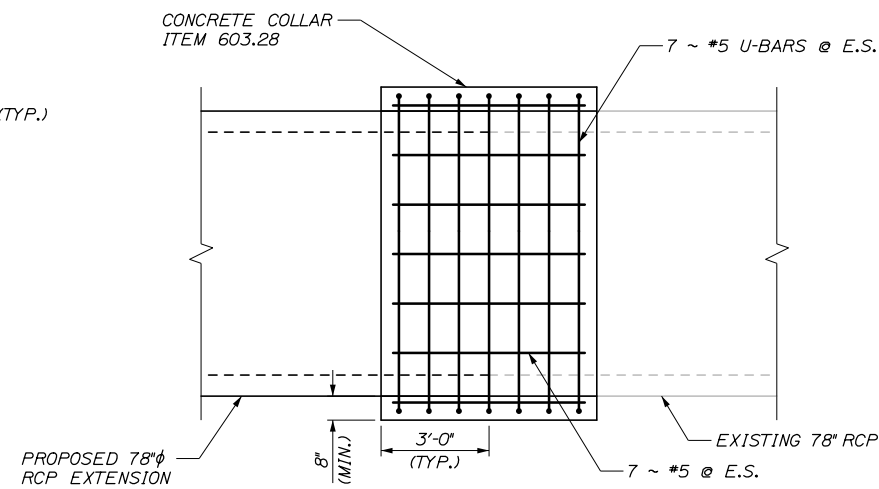
SECTION A-A
3/8" = 1'-0"



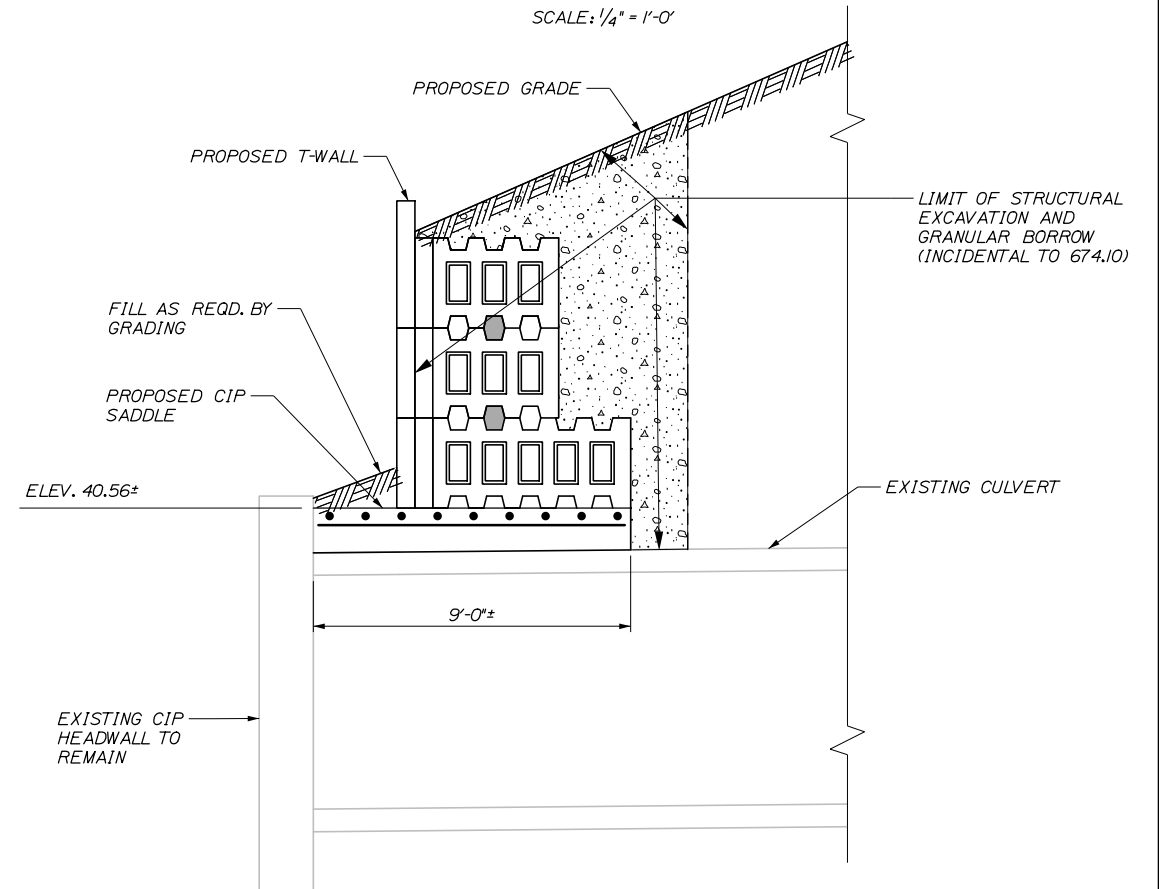
SECTION A-A
SCALE: 1/4" = 1'-0"



CONCRETE COLLAR ELEVATION
3/8" = 1'-0"



SECTION B-B
3/8" = 1'-0"



SECTION B-B
SCALE: 1/4" = 1'-0"

NOTES:
1. CONTRACTOR SHALL VERIFY EXISTING PIPE AND HEADWALL DIMENSIONS PRIOR TO CONSTRUCTION.

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
				By	Date	By	Date
				Designed	BRG 02\20	Checked	JDW 02\20
				Drawn	ERB 02\20	In Charge of	RAL 02\20

HNTB CORPORATION			
340 County Road, Suite 6-C			
Westbrook, ME 04092			
TEL (207) 774-5155			
FAX (207) 228-0909			
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE			

THE GOLD STAR
MEMORIAL HIGHWAY

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
LONG CREEK CULVERT MODIFICATIONS
HEADWALL AND WINGWALL - DETAILS

CONTRACT: 2020.03	SHEET NUMBER: S-08
275 OF 310	

BARRIER NOTES

1. INSTALLATION OF THE BARRIER REFLECTORS WILL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
2. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL PROVIDE A MASH-16 COMPLIANT END TREATMENT. SEE SHEET BD-2 FOR ADDITIONAL INFORMATION.
3. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL VERTICAL, SLOPED, AND TOP SURFACES OF MEDIAN BARRIER, PIER PROTECTION BARRIER, EARTH RETAINING BARRIER, AND BARRIER TRANSITION PIECES, INCLUDING BARRIER ENDS AND EXCLUSIVE OF BURIED OVERTURNING SLABS, IN ACCORDANCE WITH SPECIAL PROVISION 515.
4. ANY NECESSARY DEWATERING OF FOUNDATION EXCAVATION FOR INSTALLATION OF EARTH RETAINING BARRIER OR PIER PROTECTION BARRIER SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
5. EXPANSION JOINTS FOR PIER PROTECTION BARRIER AND EARTH RETAINING BARRIER SHALL BE PROVIDED EVERY 50 FT. CONTRACTION JOINTS SHALL BE PROVIDED EVERY 25 FT. CONTRACTION AND EXPANSION SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAILS SECTION 502.
6. EXCAVATION AND GRANULAR BORROW BEDDING MATERIAL FOR INSTALLATION OF ALL BARRIER AND ASSOCIATED TRANSITIONS SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTALS TO THE ASSOCIATED 526 PAY ITEM.
7. AT THE CONTRACTOR'S DISCRETION PORTIONS OF THE BARRIER FACE THAT WILL BE LOCATED BELOW GRADE MAY BE CAST VERTICAL RATHER THAN SLOPED.
8. THE TOP OF THE BARRIER SHALL BE FLUSH ACROSS ALL JOINTS, INCLUDING CONSTRUCTION, CONTRACTION, EXPANSION, AND STRUCTURAL TUBE CONNECTIONS. THE TOP OF THE BARRIER, EXCEPT AS REQUIRED AT HEIGHT TRANSITIONS, SHALL BE PARALLEL TO THE PAVEMENT SURFACE AT EDGE OF TRAVELWAY.
9. SCREW PIN SHALL BE SECURED WITH AN APPROVED THREAD LOCK MATERIAL DURING FINAL ASSEMBLY.
10. A D-SHACKLE SHALL BE ATTACHED TO EACH I-BEAM.
11. TYPE B BARRIER MAY BE USED AT ANY LOCATION IN PLACE OF TYPE A BARRIER AT THE CONTRACTOR'S DISCRETION AT NO ADDITIONAL COST TO THE AUTHORITY.
12. CONCRETE REPAIRS SHALL BE COMPLETED AT THE GORHAM ROAD AND I-295 UNDERPASS BRIDGE PIERS PRIOR TO INSTALLING PIER PROTECTION BARRIER. THE CONCRETE REPAIR AREAS ARE LIMITED TO THE LOWER 6 FEET OF THE PIER COLUMNS OR AS DIRECTED BY THE RESIDENT. THE WORK SHALL BE PAID FOR AND IN ACCORDANCE WITH 518.60 REPAIR OF VERTICAL SURFACES < 8 INCHES. THE ESTIMATED REPAIR QUANTITIES ARE 100 SF AT GORHAM ROAD AND 50 SF AT I-295. ACTUAL REPAIR LIMITS WILL BE DETERMINED BY THE RESIDENT ENGINEER DURING CONSTRUCTION.
13. THE MEDIAN BARRIER LAYOUT AT PIER PROTECTION LOCATIONS HAS BEEN DETAILED SUCH THAT THE TRANSITION BARRIER CAN BE MOVED UP TO FIVE FEET UPSTATION OR DOWNSTATION. THIS ALLOWANCE IS INTENDED TO ALLOW THE OVERALL LENGTH OF THE CAST-IN-PLACE PIER PROTECTION BARRIER SYSTEMS TO VARY TO ACCOMMODATE THE FINAL AS-BUILT LAYOUT OF THE PRECAST MEDIAN BARRIER.
14. AT PIER AND OVERHEAD SIGN STRUCTURE LOCATIONS THE DETAILS INCLUDE REFERENCE ELEVATIONS AT THE START AND END OF BARRIER TRANSITIONS, AT COLUMNS, AND AT OTHER ELEVATION LOCATIONS. THE CONTRACTOR SHALL ADJUST THE REFERENCE ELEVATIONS IN ACCORDANCE WITH THE PROJECT DETAILS TO DEVELOP FINISHED TOP OF BARRIER ELEVATIONS. IF THE CONTRACTOR ADJUSTS THE LOCATION OF BARRIER RUNS AS ALLOWED IN NOTE 13 THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERPOLATING OR EXTRAPOLATING BARRIER GRADES AS REQUIRED TO ACCOMMODATE THE ADJUSTMENT. ANY SUCH ADJUSTMENTS SHALL BE REFLECTED IN THE CONTRACTOR'S WORKING DRAWINGS.

STRUCTURAL NOTES

1. PRIOR TO FABRICATING THE PRECAST CONCRETE BARRIER AND REINFORCING THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS OF THE PROPOSED MEDIAN BARRIER LAYOUT AND ITS COMPONENTS IN ACCORDANCE WITH SPECIAL PROVISION 526.
2. REINFORCING SCHEDULES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH DEVELOPING THE REINFORCEMENT SCHEDULES WILL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
3. ALL BARRIER REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 3 INCHES AT THE ENDS OF BARRIER SEGMENTS, AND 2.5 INCHES OF COVER ELSEWHERE, EXCEPT AS OTHERWISE NOTED.
4. ALL PROPOSED BARRIER CONNECTION COMPONENTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 OR A153 AS APPLICABLE.
5. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER UNLESS NOTED OTHERWISE.

TABLE 1

BEGIN STATION	END STATION	LENGTH	DESCRIPTION
2121+71.50	2121+81.50	10	MEDIAN GUARDRAIL TRANSITION BARRIER
2121+81.50	2125+81.63	SEE DETAIL	HOLMES ROAD UNDERPASS, SEE SHEET BD-3
2125+81.63	2126+00.00	18	TYPE B
2126+00.00	2131+00.00	500	TYPE A
2131+00.00	2132+50.00	150	TYPE B
2132+50.00	2132+79.00	29	TYPE A
2132+79.00	2133+49.00	SEE DETAIL	PROPOSED OHSS FOUNDATION, SEE SHEET BD-5
2133+49.00	2135+73.27	224	TYPE A
2135+73.27	2136+43.27	SEE DETAIL	EXISTING OHSS FOUNDATION, SEE SHEET BD-5
2136+43.27	2137+00.00	57	TYPE B
2137+00.00	2139+00.00	200	TYPE A
2139+00.00	2141+00.00	200	TYPE B
2141+00.00	2144+50.00	350	TYPE A
2144+50.00	2145+50.00	100	TYPE B
2145+50.00	2148+00.00	250	TYPE A
2148+00.00	2150+50.00	250	TYPE B
2150+50.00	2152+00.00	150	TYPE A
2152+00.00	2152+65.33	65	TYPE B
2152+65.33	2155+25.33	SEE DETAIL	EXISTING OHSS, SEE SHEET BD-6
2155+25.33	2175+00.00	1975	TYPE A
2175+00.00	2176+31.79	132	TYPE B
2176+31.79	2179+20.79	SEE DETAIL	GORHAM ROAD UNDERPASS, SEE SHEET BD-6
2179+20.79	2180+00.00	79	TYPE A
2180+00.00	2182+00.00	200	TYPE B
2182+00.00	2186+35.40	435	TYPE A
2186+35.40	2187+05.40	SEE DETAIL	EXISTING OHSS FOUNDATION, SEE SHEET BD-5
2187+05.40	2189+00.00	195	TYPE A
2189+00.00	2191+00.00	200	TYPE B
2191+00.00	2191+58.35	56	TYPE A
2191+58.35	2194+75.15	SEE DETAIL	I-295 SB UNDERPASS, SEE SHEET BD-6
2194+75.15	2195+00.00	30	TYPE B
2195+00.00	2197+50.00	250	TYPE A
2197+50.00	2198+50.00	100	TYPE B
2198+50.00	2206+00.04	750	TYPE A
2206+00.04	2209+21.04	SEE DETAIL	CUMMINGS ROAD UNDERPASS, SEE SHEET BD-4
2209+21.04	2210+00.00	79	TYPE B
2210+00.00	2215+50.00	550	TYPE A
2215+50.00	2216+50.00	100	TYPE B
2216+50.00	2219+00.00	250	TYPE A
2219+00.00	2225+00.00	SEE DETAIL	EXISTING EXIT 45 PIER, SEE SHEET BD-7
2225+00.00	2227+00.00	200	TYPE B
2227+00.00	2229+50.00	250	TYPE A
2229+50.00	2233+00.00	350	TYPE B
2233+00.00	2249+22.19	1622	TYPE A
2249+22.19	2252+04.19	SEE DETAIL	RUNNING HILL ROAD UNDERPASS, SEE SHEET BD-6
2252+04.19	2270+00.00	1796	TYPE A
2270+00.00	2271+00.00	100	TYPE B
2271+00.00	2275+50.00	450	TYPE A
2275+50.00	2283+00.00	750	TYPE B
2283+00.00	2283+12.58	12	TYPE A
2283+12.58	2287+84.08	SEE DETAIL	JETPORT LIGHT BRIDGE, SEE SHEET BD-6
2287+84.08	2288+50.00	66	TYPE A, PROJECT TERMINATION
TYPE A TOTAL =		11,250 LF	
TYPE B TOTAL =		3,575 LF	

Date: 2/25/2020

Filename: PAW1_Barrier Notes and Location Plan

Scale:				Designed by:			
NO SCALE				HNTB			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
				By	Date	By	Date
				Designed	JDW 02\20	Checked	BRG 02\20
				Drawn	PEB 02\20	In Charge of	RAL 02\20

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909

THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

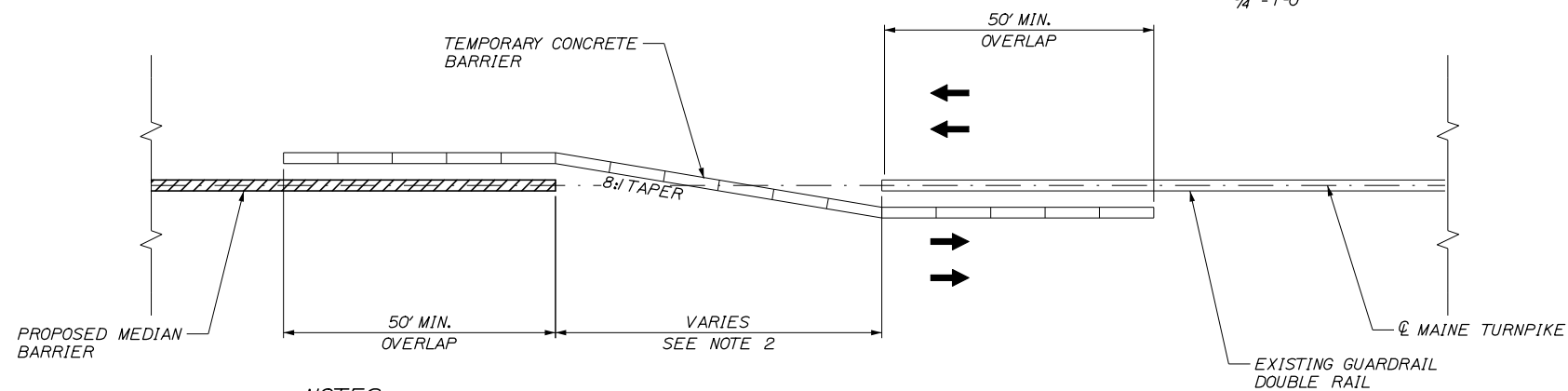
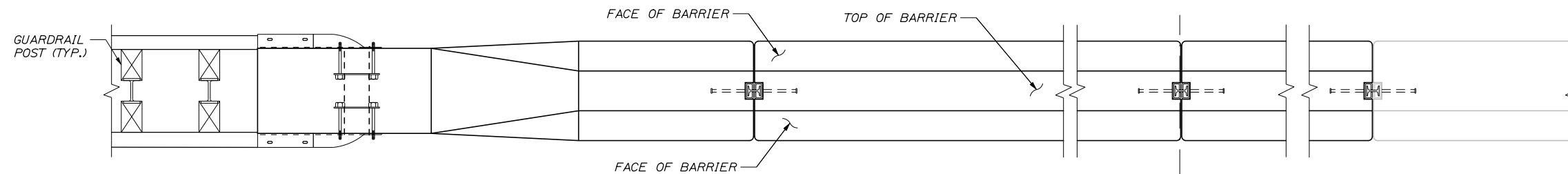
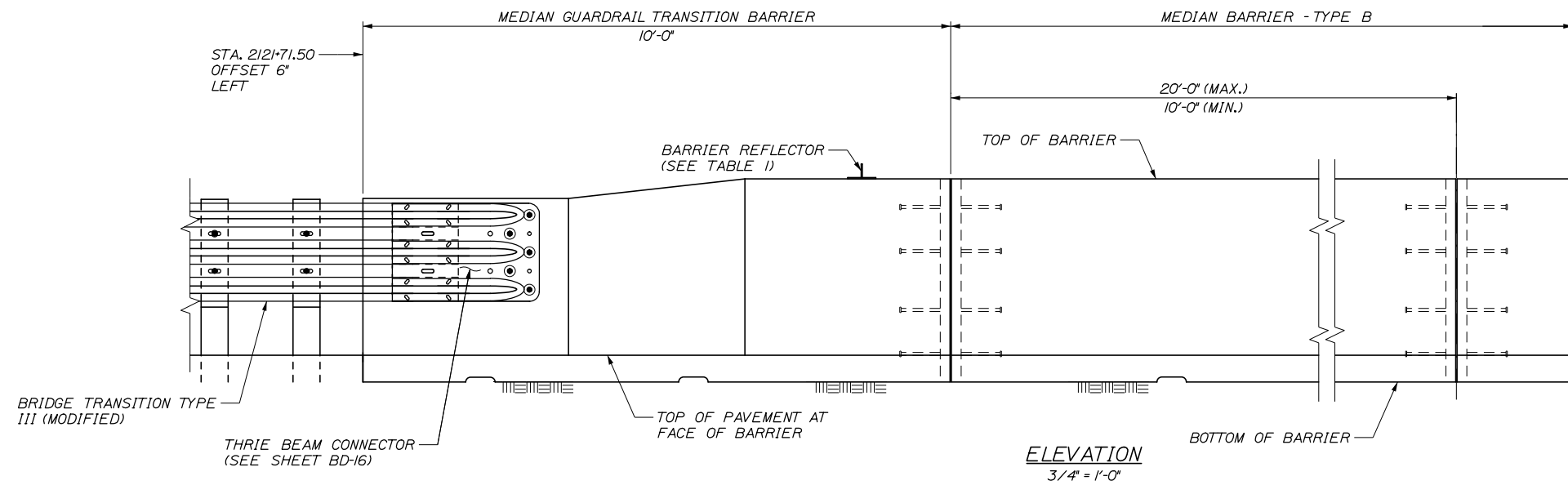
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

BARRIER NOTES AND
LOCATION PLAN

SHEET NUMBER: BD-1
 CONTRACT: 2020.03
 276 OF 310

Date: 2/25/2020

Filename: PAW1_Median Barrier - Guardrail Transition Layout



SPACING OF REFLECTORS	
RADIUS OF HORIZONTAL CURVE	CL TO CL DISTANCE BETWEEN REFLECTORS
LESS THAN 2000'	115'
2000' TO 3000'	130'
3000' TO 5000'	160'
OVER 5000'	200'
TANGENT AREA	200'

TABLE 1

NOTES:

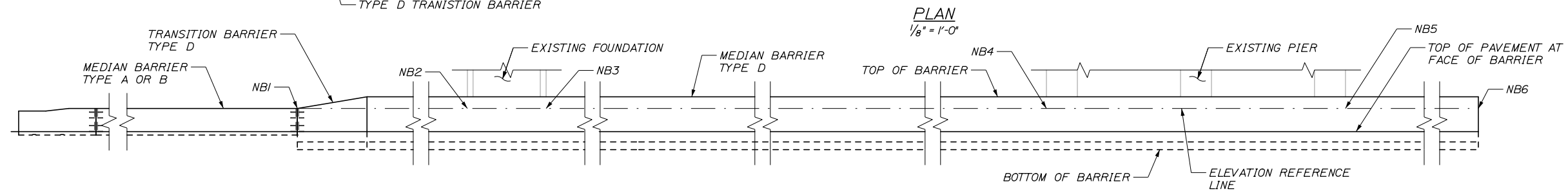
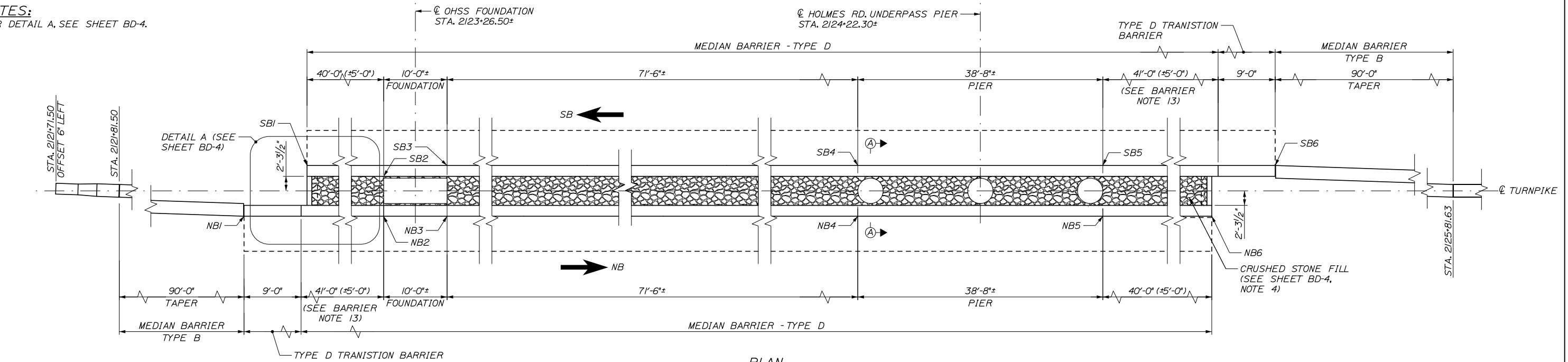
1. BARRIER ENDS SHALL BE PROTECTED BY A TEMPORARY WORK ZONE CRASH CUSHION OR LAPPED BEHIND GUARDRAIL.
2. 8:1 TAPERED BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO SHOULDERS, LANES, AND THE CONTRACTORS OPERATION.
3. IF A TEMPORARY WORK ZONE CRASH CUSHION IS USED, THE WORK ZONE CRASH CUSHION SYSTEM MUST BE FOUNDED ON A LEVEL SURFACE. ANY WORK NECESSARY TO PROVIDE A LEVEL SURFACE WILL BE INCIDENTAL TO THE WORK ZONE CRASH CUSHION ITEM.
4. A MASH-16 COMPLIANT IMPACT ATTENUATION SYSTEM SHALL BE INSTALLED CONCURRENTLY WITH THE PLACEMENT OF EACH RUN OF CONCRETE BARRIER.

TEMPORARY CONCRETE BARRIER LAP DETAIL
NOT TO SCALE

Scale: AS NOTED		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		THE GOLD STAR MEMORIAL HIGHWAY		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MEDIAN BARRIER GUARDRAIL TRANSITION LAYOUT																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Revision	By	Date					CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th> </th> <th>By</th> <th>Date</th> <th>Checked</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>JDW</td> <td>02\20</td> <td>Checked</td> <td>BRG</td> <td>02\20</td> </tr> <tr> <td>Drawn</td> <td>PEB</td> <td>02\20</td> <td>In Charge of</td> <td>RAL</td> <td>02\20</td> </tr> </tbody> </table>			By	Date	Checked	By	Date	Designed	JDW	02\20	Checked	BRG	02\20	Drawn	PEB	02\20	In Charge of	RAL	02\20	MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE		CONTRACT: 2020.03 SHEET NUMBER: BD-2 277 OF 310	
No.	Revision	By	Date																														
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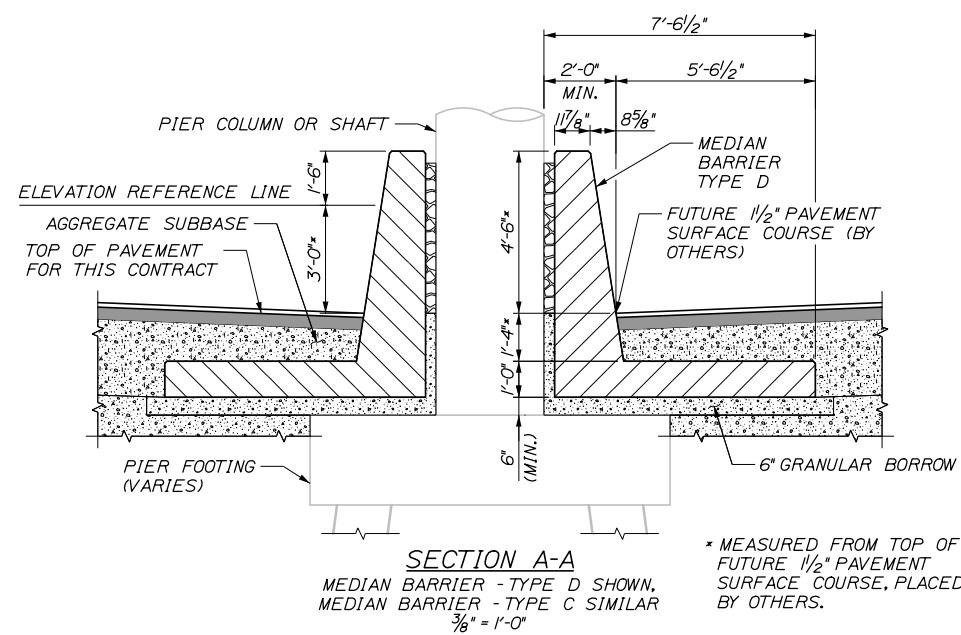
NOTES:
FOR DETAIL A, SEE SHEET BD-4.

Date: 2/25/2020

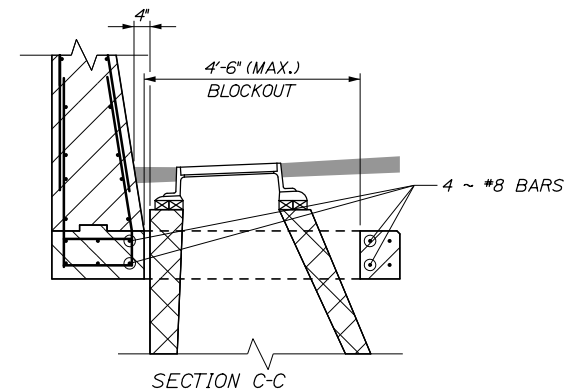
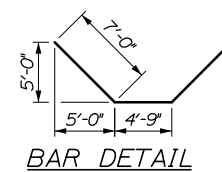


BARRIER ELEVATION TABLE

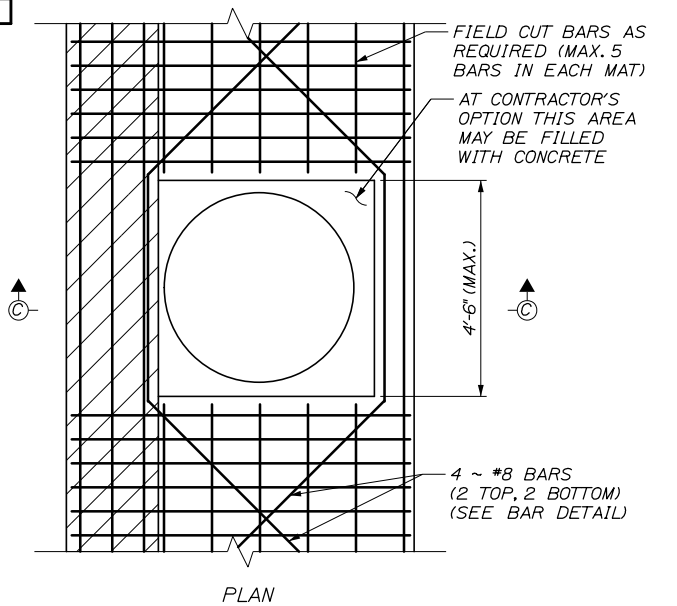
LOCATION	BEGIN ELEV.	NB1	NB2	NB3	NB4	NB5	NB6	SBI	SB2	SB3	SB4	SB5	SB6	END ELEV.
ELEVATION	60.02	58.96	58.43	58.41	57.55	57.23	56.99	58.26	57.92	57.86	56.86	56.59	56.92	55.99



ELEVATION
(ONLY BARRIER ON NEAR SIDE OF PIER SHOWN FOR CLARITY)
1/8" = 1'-0"



BLOCKOUT DETAIL
(FOR LOCATION OF BLOCKOUTS SEE CROSS SECTIONS)
1/2" = 1'-0"



Filename: PAW1_Median Barrier Pier Protection - Pier Protection Layout I

Scale: **AS NOTED**

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	JDW	02\20	Checked	BRG	02\20
Drawn	PEB	02\20	In Charge of	RAL	02\20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
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FAX (207) 228-0909


**THE GOLD STAR
MEMORIAL HIGHWAY**

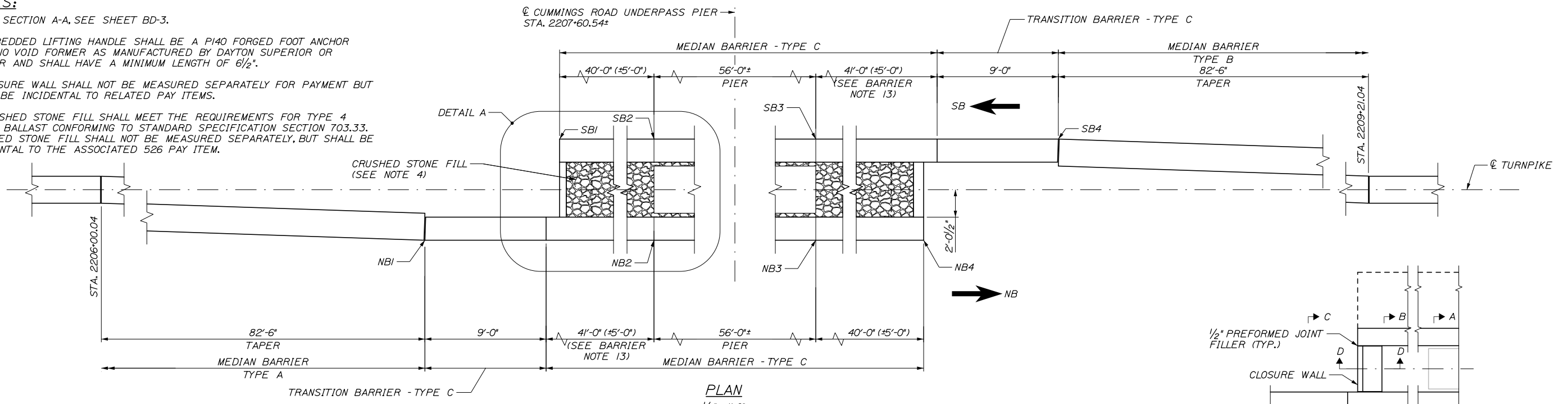
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

**PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS**
 MEDIAN BARRIER PIER PROTECTION
 PIER PROTECTION LAYOUT I

SHEET NUMBER: BD-3
CONTRACT: 2020.03
278 OF 310

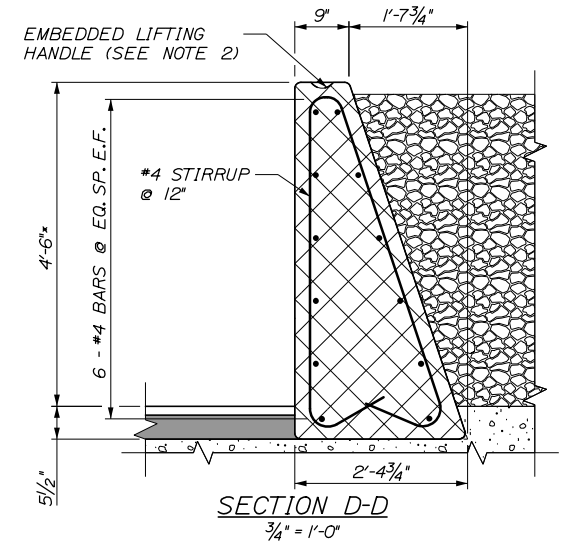
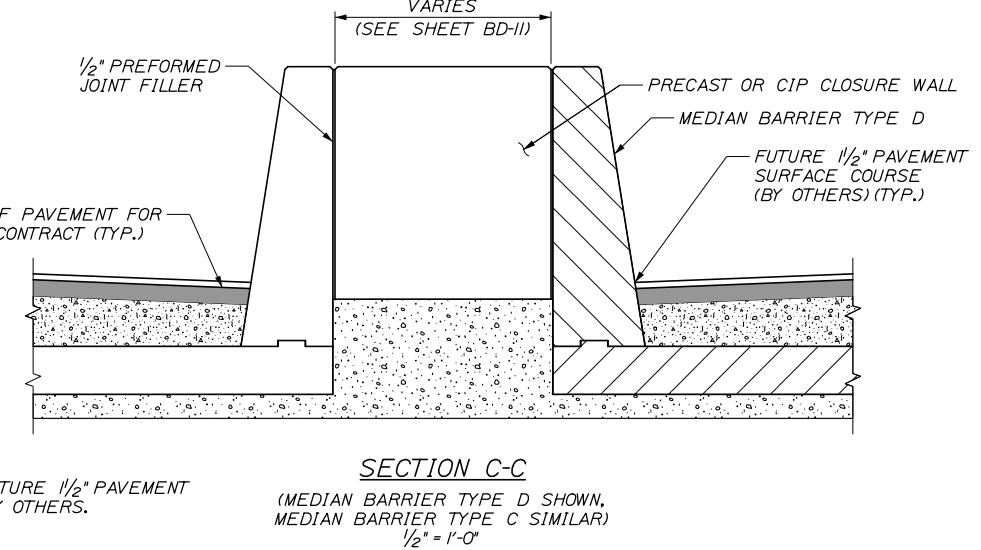
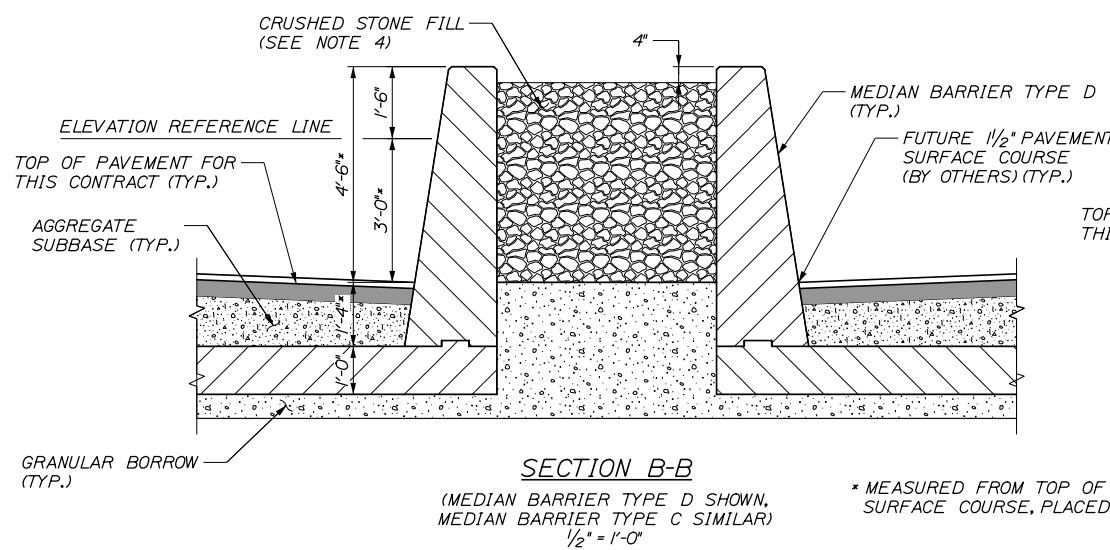
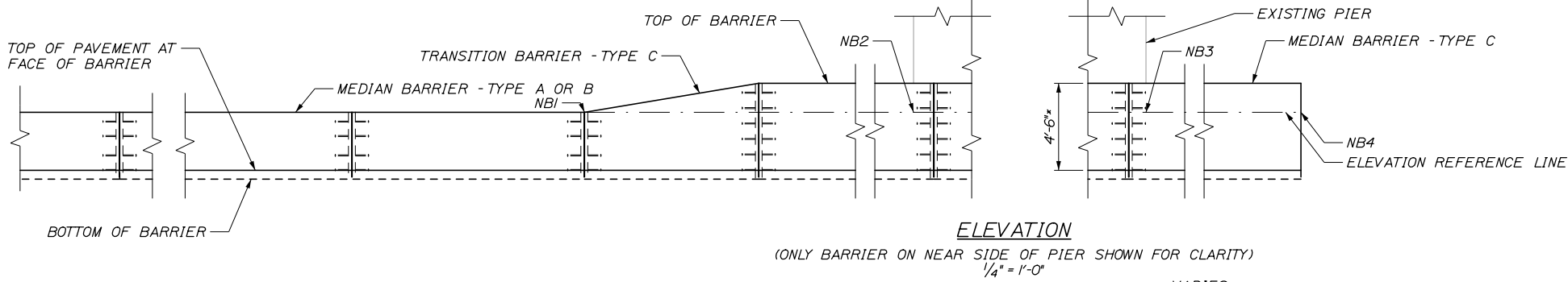
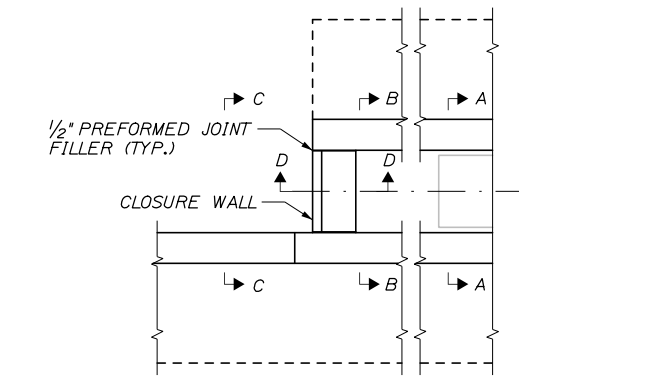
NOTES:

- FOR SECTION A-A, SEE SHEET BD-3.
- EMBEDDED LIFTING HANDLE SHALL BE A P140 FORGED FOOT ANCHOR AND T10 VOID FORMER AS MANUFACTURED BY DAYTON SUPERIOR OR SIMILAR AND SHALL HAVE A MINIMUM LENGTH OF 6/2".
- CLOSURE WALL SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCIDENTAL TO RELATED PAY ITEMS.
- CRUSHED STONE FILL SHALL MEET THE REQUIREMENTS FOR TYPE 4 STONE BALLAST CONFORMING TO STANDARD SPECIFICATION SECTION 703.33. CRUSHED STONE FILL SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.



BARRIER ELEVATION TABLE

LOCATION	BEGIN ELEV.	NB1	NB2	NB3	NB4	SBI	SB2	SB3	SB4	END ELEV.
ELEVATION	71.86	71.77	71.81	71.90	71.89	71.89	71.85	71.83	71.92	71.75



Filename: PAW1_Median Barrier Pier Protection - Pier Protection Layout II

Scale: **AS NOTED**

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	JDW	02\20	Checked	BRG	02\20
Drawn	PEB	02\20	In Charge of	RAL	02\20

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

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

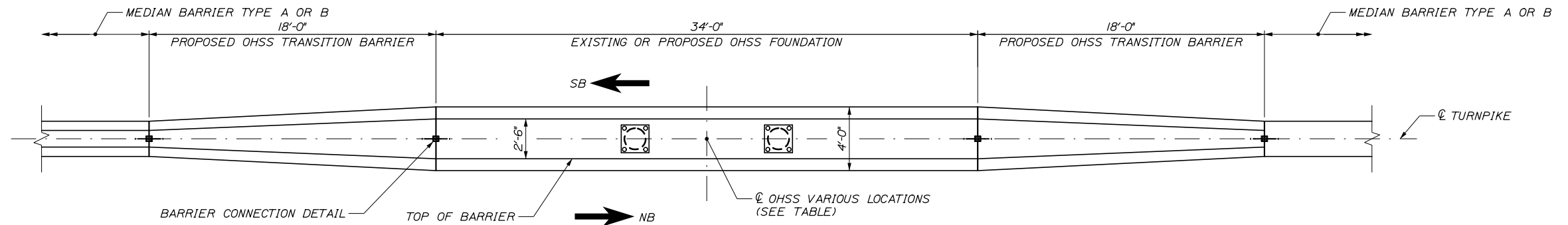
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER PIER PROTECTION
PIER PROTECTION LAYOUT II

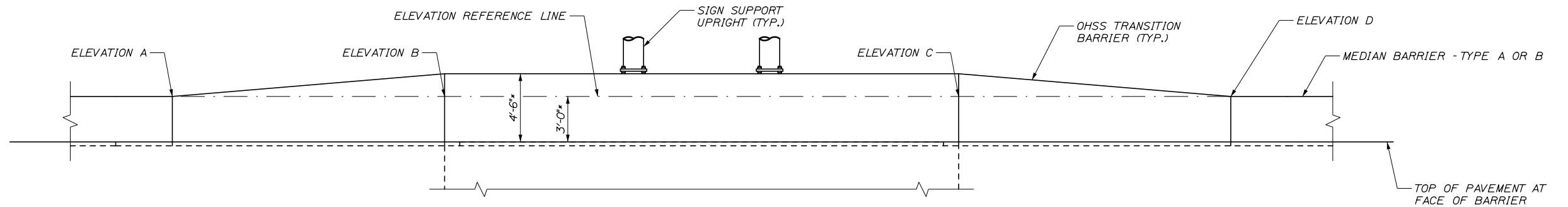
SHEET NUMBER: BD-4
CONTRACT: 2020.03
279 OF 310

Date: 2/25/2020

Filename: PAW1_Median Barrier Pier Protection - Pier Protection Layout III



PLAN
SCALE: 1/4" = 1'-0"



ELEVATION
SCALE: 1/4" = 1'-0"

BARRIER ELEVATION TABLE					
STRUCTURE	STATION	ELEVATION A	ELEVATION B	ELEVATION C	ELEVATION D
PROPOSED OHSS	2133+14.00	52.12	51.97	51.69	51.61
EXISTING OHSS*	2136+08.27	47.09	49.89	49.59	49.47
EXISTING OHSS*	2186+70.40	71.45	71.34	71.21	71.17

PRIOR TO DEVELOPMENT OF SHOP DRAWINGS CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATION OF EXISTING OHSS FOUNDATIONS. ALL MODIFICATIONS REQUIRED SHALL BE REFLECTED ON SHOP DRAWINGS.

* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date		By	Date
Designed	JDW	02\20	Checked	BRG	02\20
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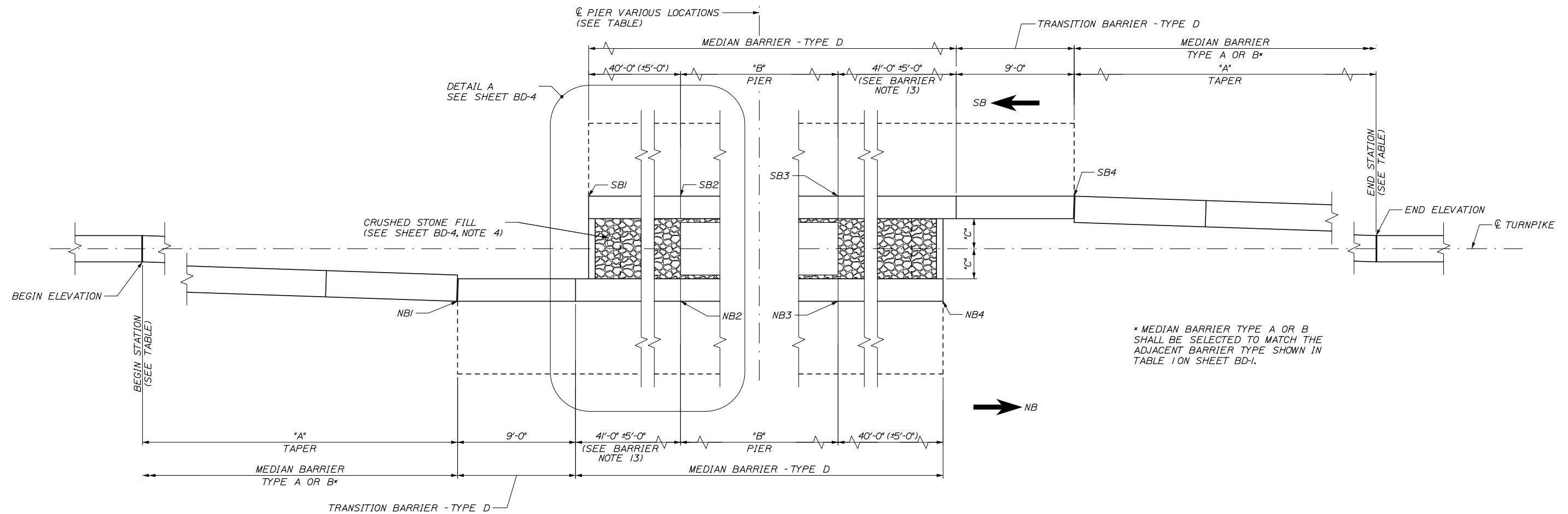
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER PIER PROTECTION
PIER PROTECTION LAYOUT III

SHEET NUMBER: BD-5
CONTRACT: 2020.03
280 OF 310

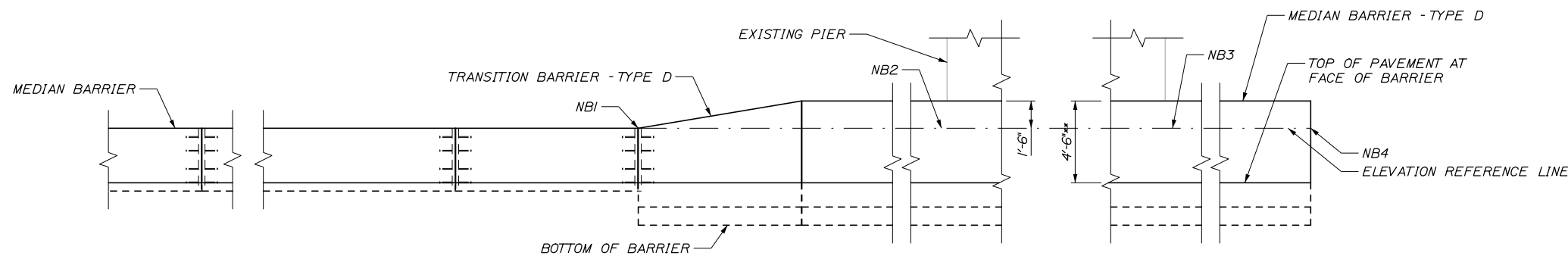
Date: 2/25/2020

Filename: PAW1_Median Barrier Pier Protection - Pier Protection Layout IV



* MEDIAN BARRIER TYPE A OR B SHALL BE SELECTED TO MATCH THE ADJACENT BARRIER TYPE SHOWN IN TABLE 1 ON SHEET BD-1.

PLAN
1/4" = 1'-0"



ELEVATION
1/4" = 1'-0"

(ONLY BARRIER ON NEAR SIDE OF PIER SHOWN FOR CLARITY)

BARRIER ELEVATION TABLE


STRUCTURE	BEG. STA.	END STA.	℄ PIER STA.	"A" (FT.)	"B" (FT.)	"C" (FT.)	BEGIN ELEV.	NB1	NB2	NB3	NB4	SB1	SB2	SB3	SB4	END ELEV.
EXISTING OVERHEAD SIGN STRUCTURE	2152+65.33	2155+25.33	2153+95.33	75.0	10.0	1.5	33.78	33.93	33.84	33.88	34.08	33.64	33.83	33.89	34.19	34.73
GORHAM ROAD UNDERPASS	2176+31.79	2179+20.79	2177+76.29	75.0	39.0	1.5	65.03	66.23	67.09	67.74	68.44	66.36	67.08	67.76	68.66	69.81
I-295 SB UNDERPASS	2191+58.33	2194+75.15	2193+14.25	75.0	61.8	1.5	69.29	69.12	68.98	68.94	68.87	69.06	69.00	68.83	68.89	68.55
RUNNING HILL ROAD UNDERPASS	2249+22.19	2252+04.19	2250+63.19	67.5	47.0	1.25	70.18	70.38	70.50	70.64	70.79	70.34	70.47	70.70	70.94	71.37
JETPORT LIGHT BRIDGE	2283+84.08	2288+50.00	2285+48.33	181.0	9.5	3.4	63.01	65.06	65.87	66.06	66.88	65.20	65.84	66.03	67.19	70.89

** MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
	By	Date	
	By	Date	

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
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FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

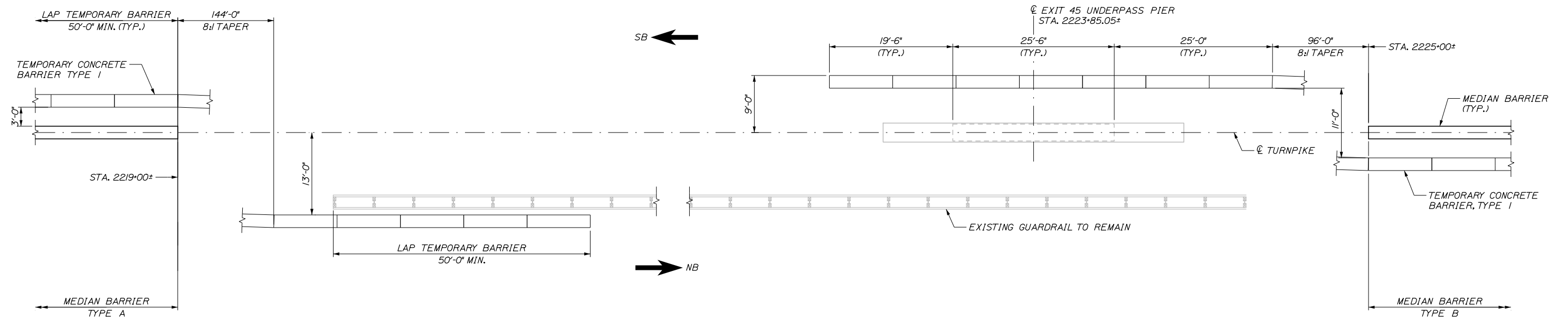
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MEDIAN BARRIER PIER PROTECTION
PIER PROTECTION LAYOUT IV

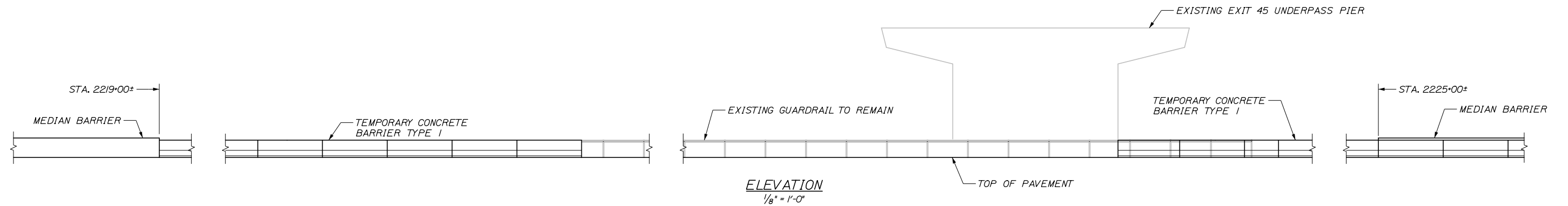
SHEET NUMBER: BD-6
CONTRACT: 2020.03
281 OF 310

Date: 2/25/2020

Filename: PAW1_Median Barrier Pier Protection - Pier Protection Layout V



PLAN
1/8" = 1'-0"



ELEVATION
1/8" = 1'-0"

NOTES

1. GRADE MEDIAN UNDER TEMPORARY CONCRETE BARRIER TO A MAXIMUM 10:1 SLOPE.
2. TEMPORARY CONCRETE BARRIER TO OVERLAP PERMANENT CONCRETE BARRIER BY 50 FEET, MAINTAIN 3 FEET CLEAR SEPERATION.
3. ANGLE POINT OF TEMPORARY CONCRETE BARRIER SHALL BE LOCATED AT THE END OF THE PERMANENT BARRIER.

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	Designed	JDW 02\20		Checked	BRG 02\20
	Drawn	PEB 02\20		In Charge of	RAL 02\20

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FAX (207) 228-0909

THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

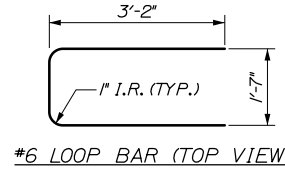
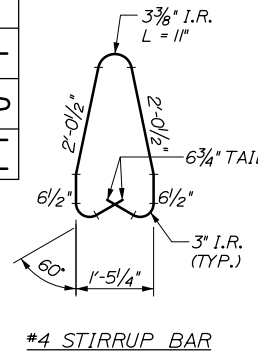
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER PIER PROTECTION
PIER PROTECTION LAYOUT V

SHEET NUMBER: BD-7
CONTRACT: 2020.03
282 OF 310

Date: 2/25/2020

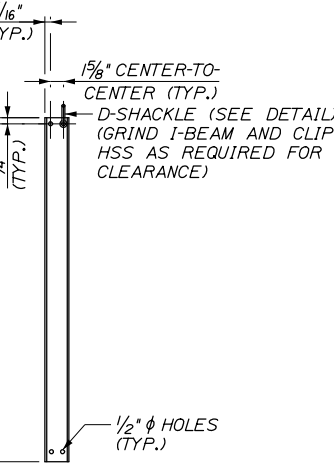
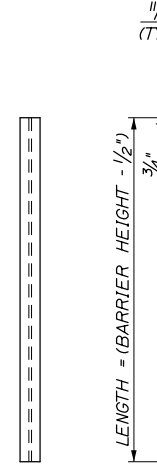
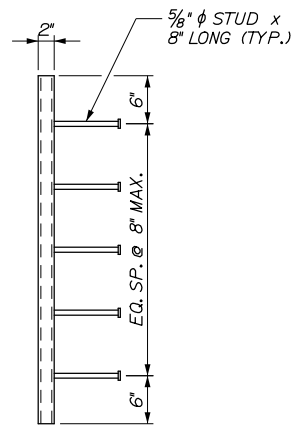
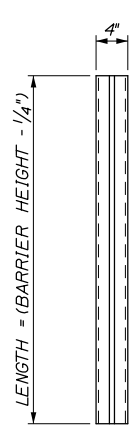
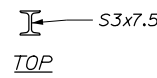
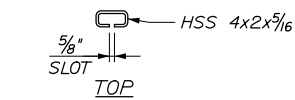
CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	10	19'-6"	
STIRRUPS	#4	29	7'-10"	
LOOP BAR	#6	2	7'-11"	



* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.

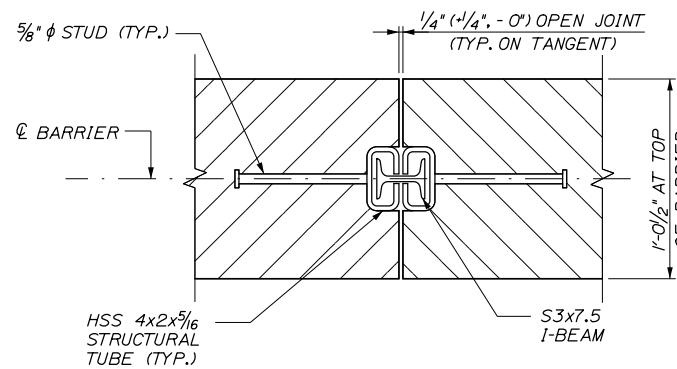
NOTES:

1. FOR BARRIER NOTES, SEE SHEET BD-1.

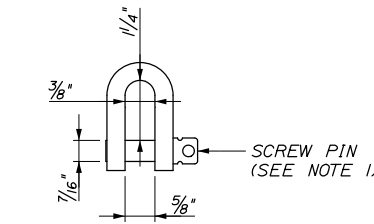


FRONT SIDE
STRUCTURAL TUBE DETAILS
1" = 1'-0"

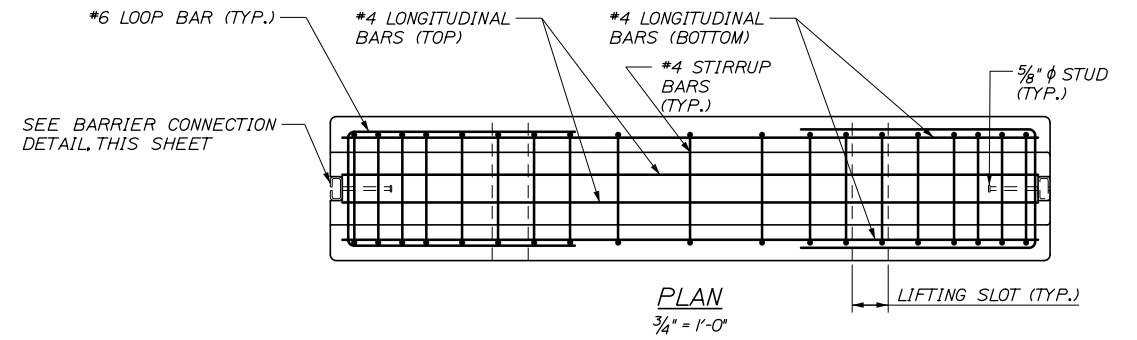
FRONT SIDE
I-BEAM DETAILS
1" = 1'-0"



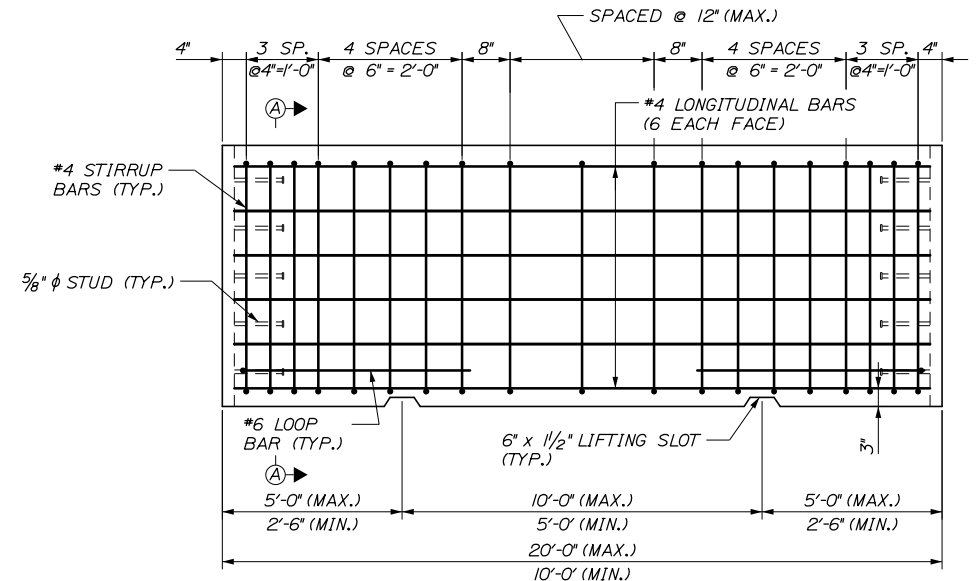
BARRIER CONNECTION DETAIL
2" = 1'-0"



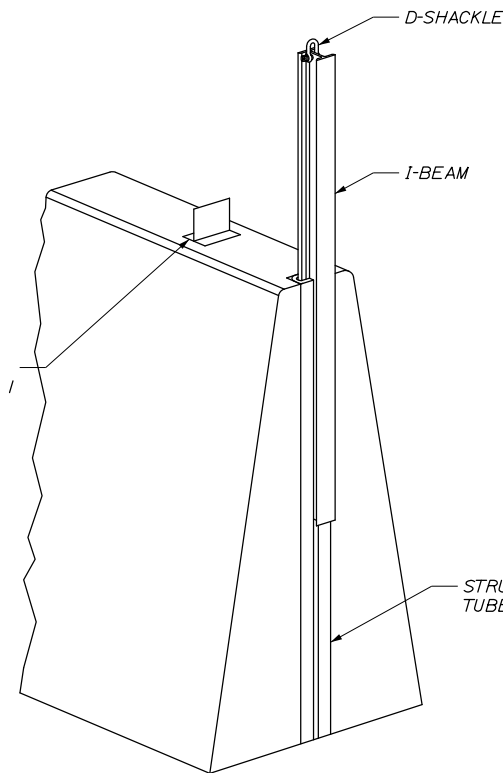
D-SHACKLE DETAIL
(ONE PER I-BEAM)
6" = 1'-0"



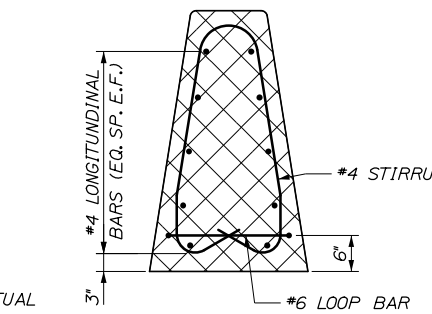
PLAN
3/4" = 1'-0"



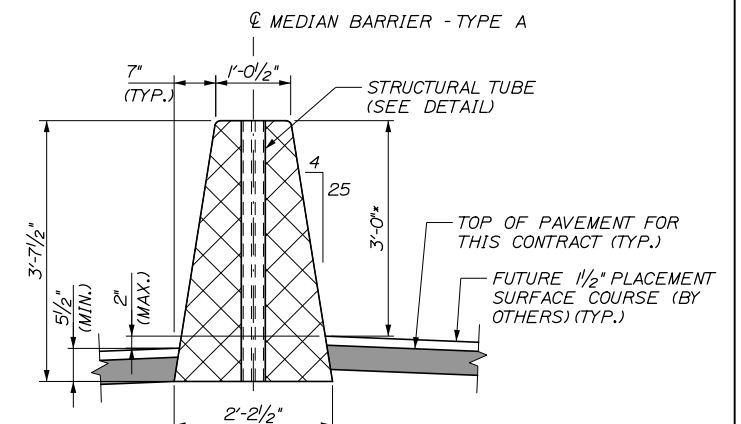
ELEVATION
3/4" = 1'-0"



PERSPECTIVE VIEW
NOT TO SCALE



SECTION A-A (REINFORCEMENT)
3/4" = 1'-0"



SECTION A-A (MASONRY)
3/4" = 1'-0"


* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

Filename: PAW1_Median Barrier - Type A

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
Designed	By: JDW	Date: 02\20	Checked: BRG 02\20
Drawn	By: PEB	Date: 02\20	In Charge of: RAL 02\20

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PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
MEDIAN BARRIER
MEDIAN BARRIER - TYPE A

SHEET NUMBER: BD-8
CONTRACT: 2020.03
283 OF 310

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

Date: 2/25/2020

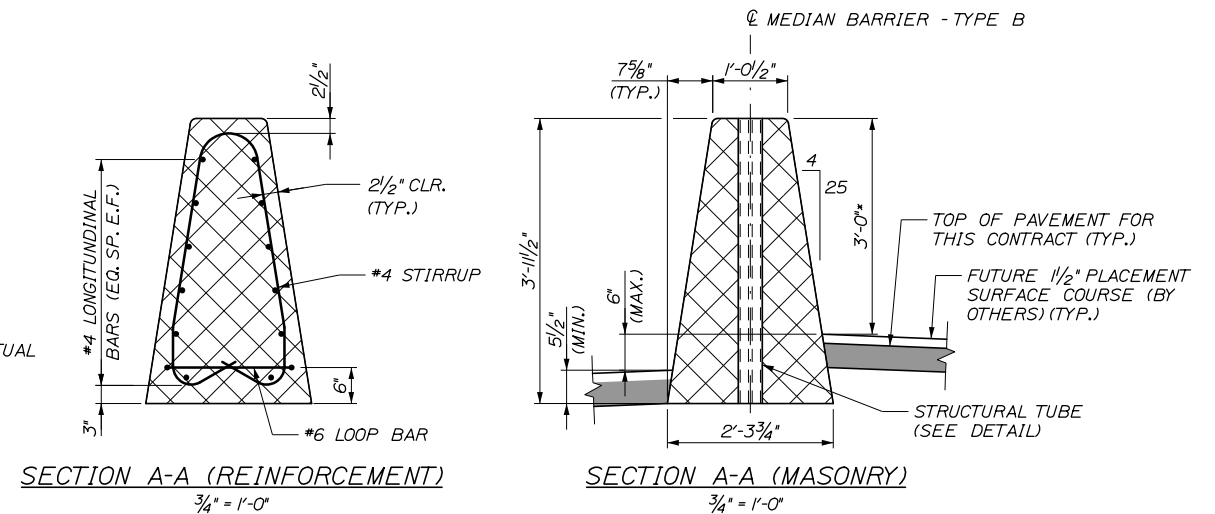
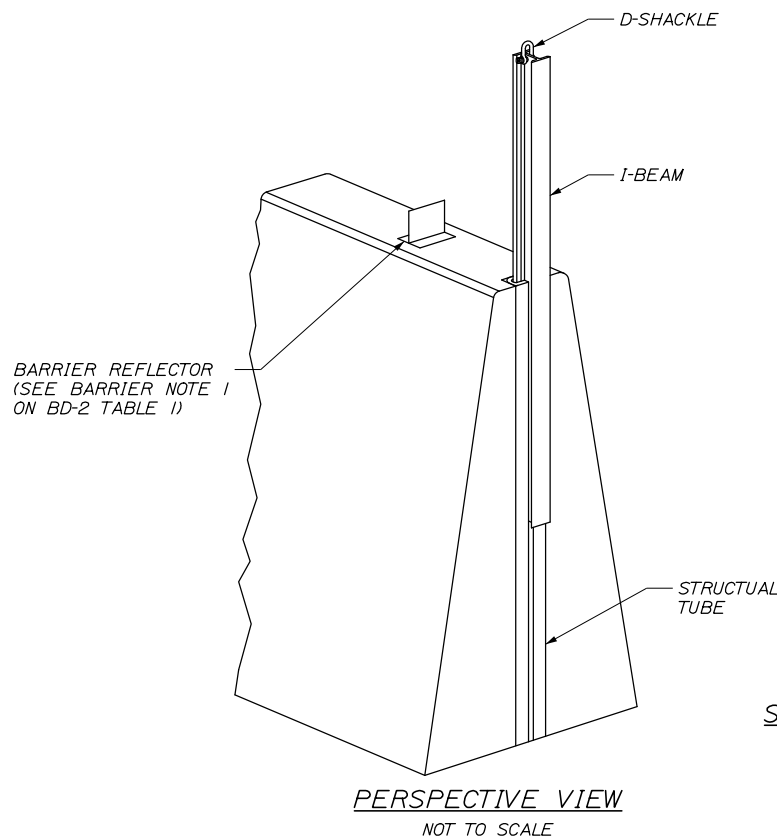
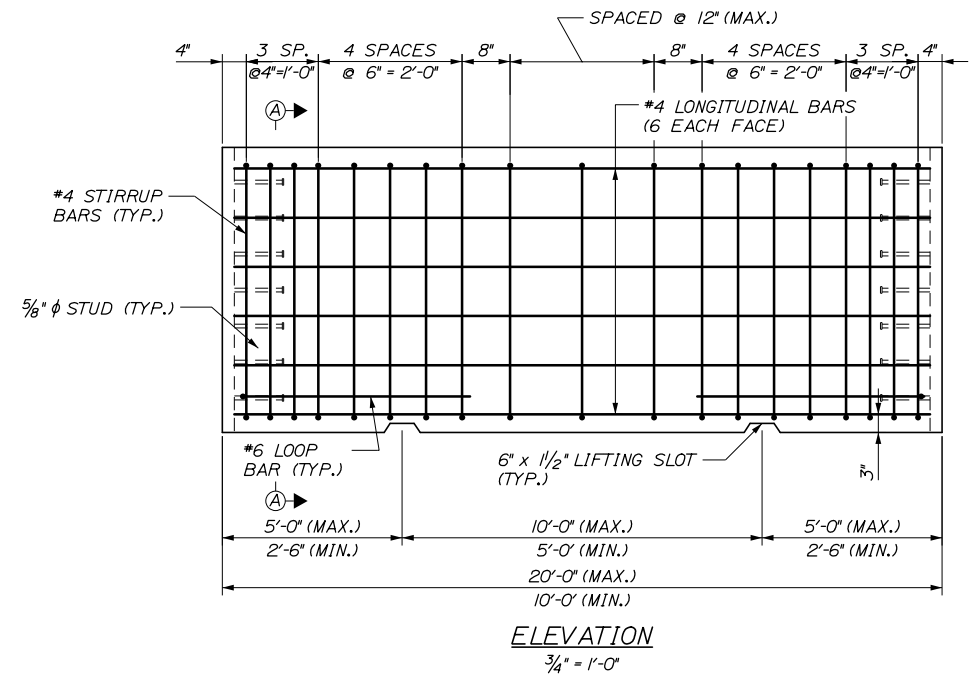
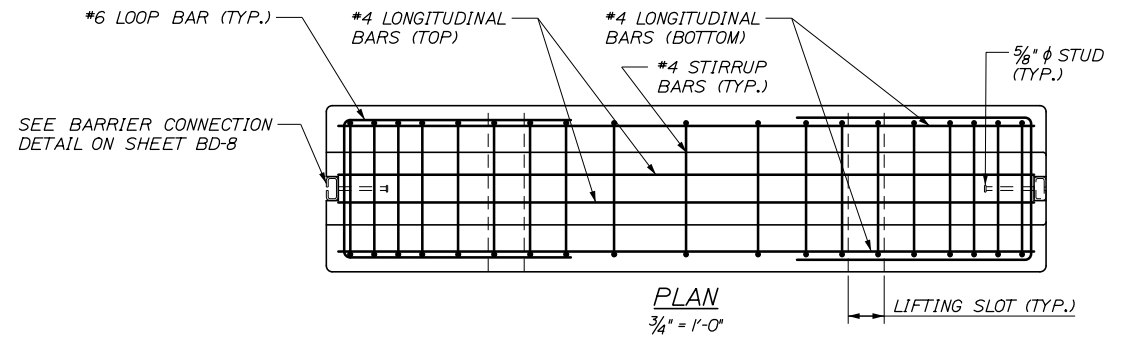
Filename: PAW1_Median Barrier - Type B

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	12	19'-6"	
STIRRUPS	#4	19	8'-6"	
LOOP BAR	#6	2	8'-0"	

#6 LOOP BAR (TOP VIEW)

#4 STIRRUP BAR

* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.




- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-1.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-8.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.					
	By	Date		By	Date
	JDW	02\20		BRG	02\20
	PEB	02\20	In Charge of	RAL	02\20

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MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS




MEDIAN BARRIER
MEDIAN BARRIER - TYPE B

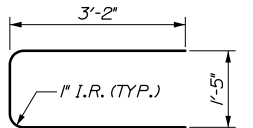
SHEET NUMBER: BD-9
284 OF 310

CONTRACT: 2020.03

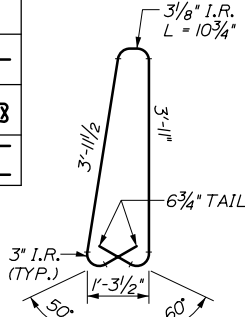
* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

Date: 2/25/2020

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	14	19'-6"	
STIRRUPS	#4	29	11'-2"	
LOOP BAR	#6	2	7'-9"	

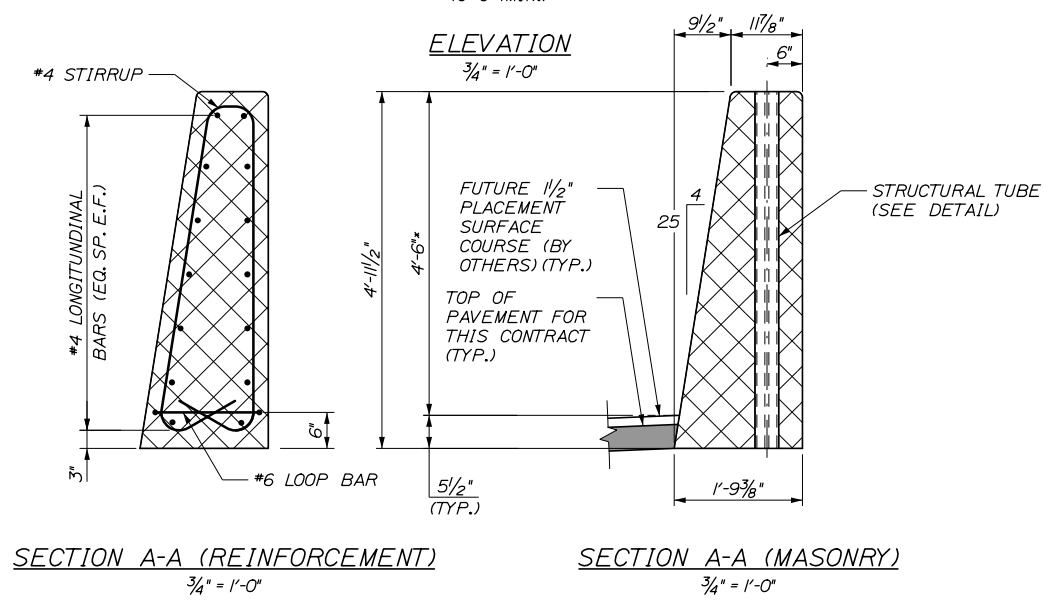
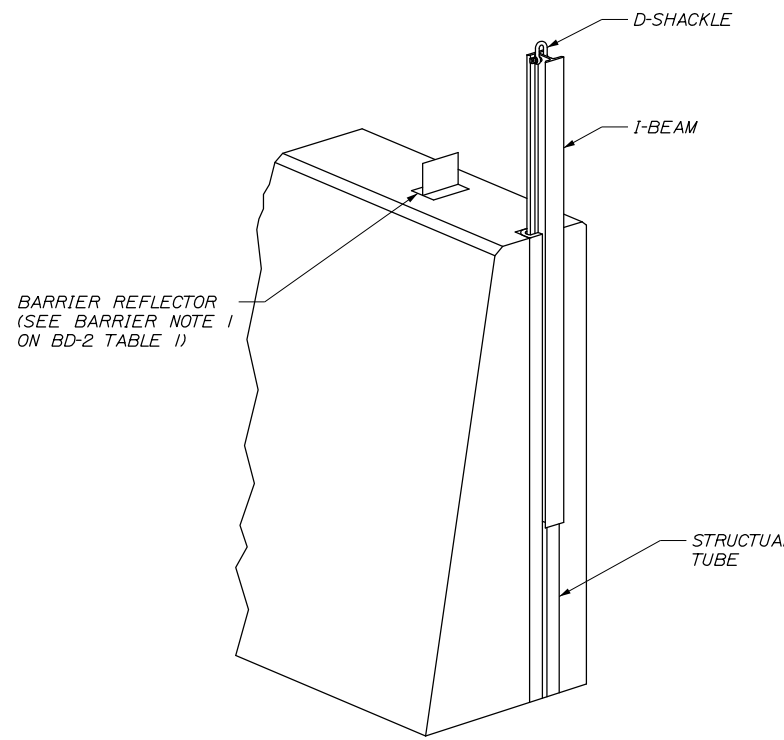
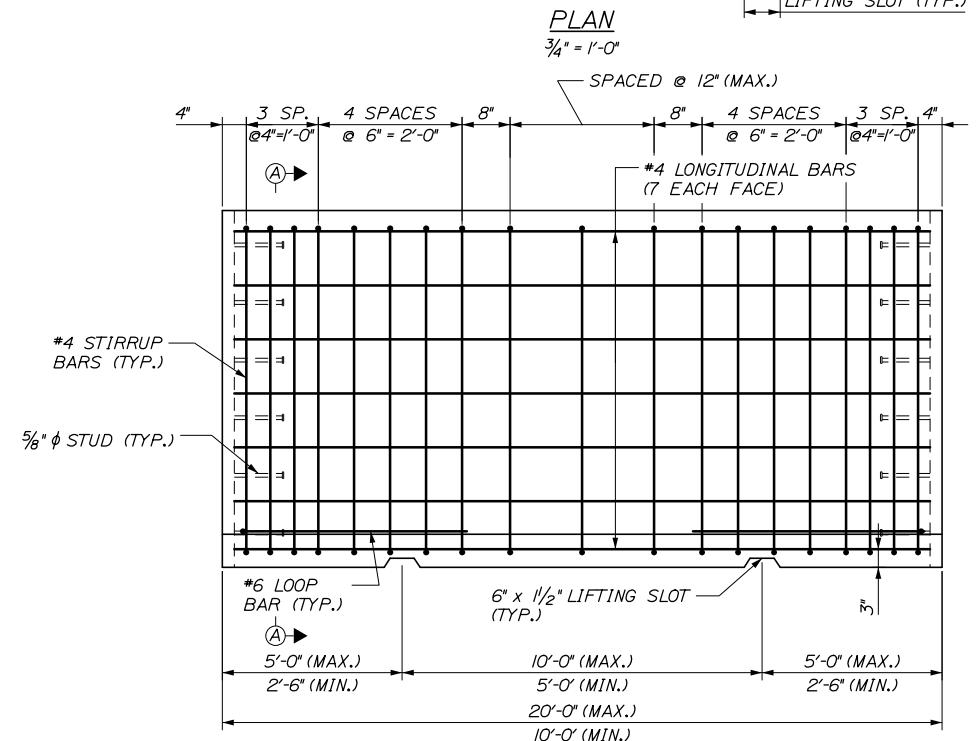
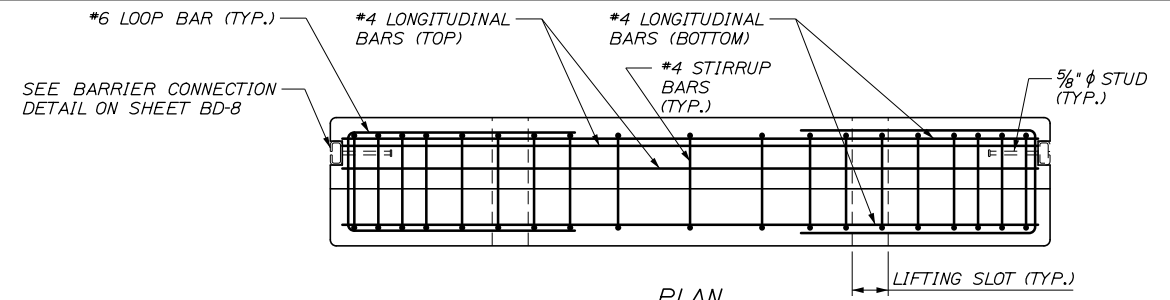


#6 LOOP BAR (TOP VIEW)



#4 STIRRUP BAR


* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.



NOTES:

- FOR BARRIER NOTES, SEE SHEET BD-1.
- FOR ADDITIONAL DETAILS, SEE SHEET BD-7.

* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
				By	Date	By	Date
				Designed	JDW 02\20	Checked	BRG 02\20
				Drawn	PEB 02\20	In Charge of	RAL 02\20

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THE GOLD STAR MEMORIAL HIGHWAY			

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS MEDIAN BARRIER MEDIAN BARRIER - TYPE C			
SHEET NUMBER: BD-10			

CONTRACT: 2020.03		285 OF 310	
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Filename: PAW1_Median Barrier - Type C

Date: 2/25/2020

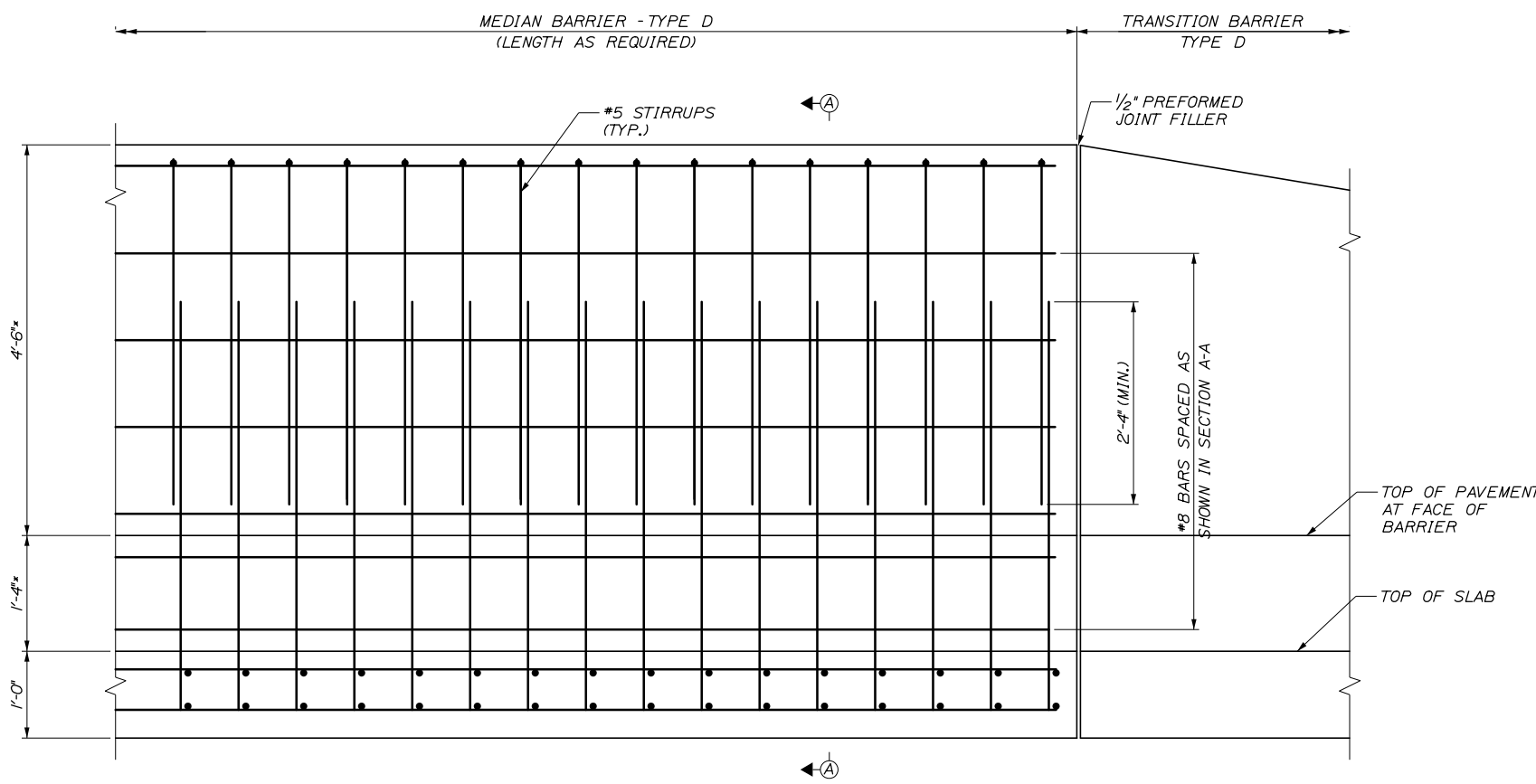
Filename: PAW1_Median Barrier - Type D

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
STIRRUPS	#5	20	9'-4"	
STIRRUPS	#5	20	10'-4"	
TRANSVERSE FOOTING	#5	40	6'-10"	
LONGITUDINAL FOOTING	#5	32	DETERMINED BY CONTRACTOR	
LONGITUDINAL	#8	14	DETERMINED BY CONTRACTOR	

#5 STIRRUP BAR

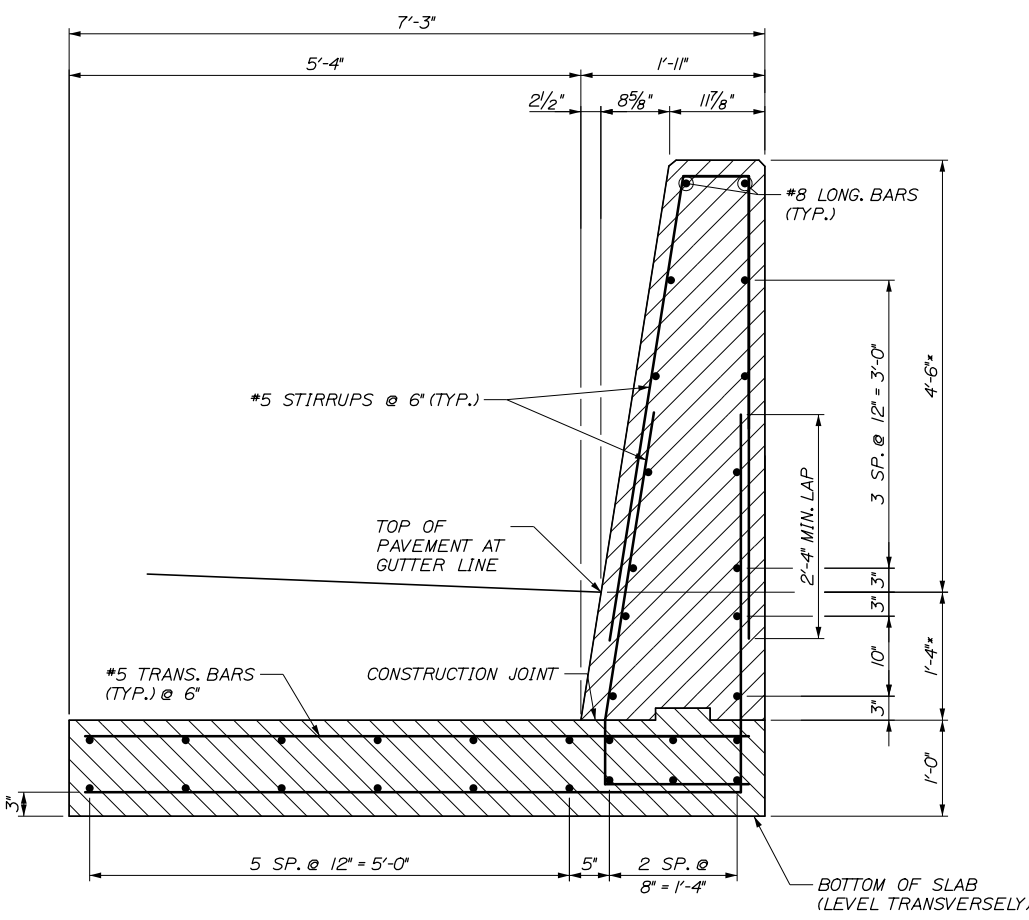
#5 STIRRUP BAR

NOTE - NUMBER OF TRANSVERSE BARS PER 10 FT. SEGMENT OF STRUCTURE. LONGITUDINAL BAR LENGTH SHALL BE DETERMINED BY CONTRACTOR. MINIMUM SLICE LENGTHS SHALL BE:
 #5 - 2'-4"
 #8 - 4'-2"
 SPLICES SHALL BE STAGGERED A MINIMUM OF 8 FT.



ELEVATION
1" = 1'-0"

* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.



SECTION A-A
1" = 1'-0"

NOTES:
1. FOR BARRIER NOTES, SEE SHEET BD-1.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
By	Date	By	Date
Designed	JDW 02\20	Checked	BRG 02\20
Drawn	PEB 02\20	In Charge of	RAL 02\20

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
 SAFETY IMPROVEMENTS
 MEDIAN BARRIER
 MEDIAN BARRIER - TYPE D

SHEET NUMBER: BD-11

CONTRACT: 2020.03

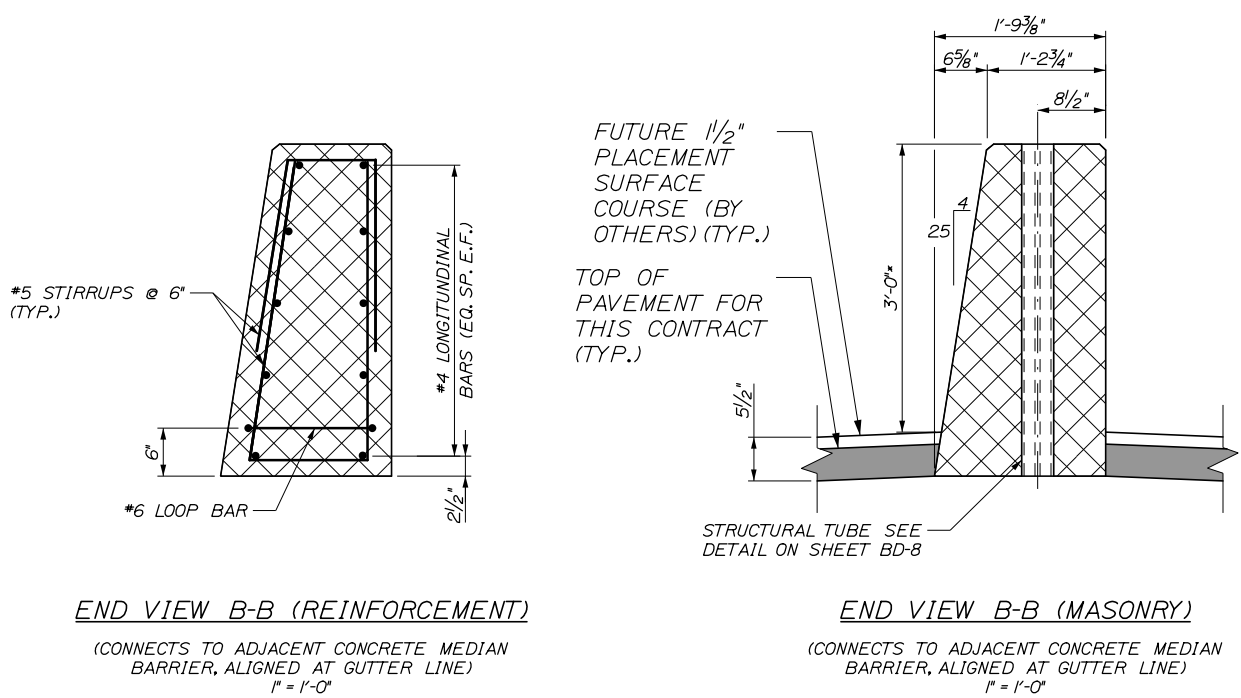
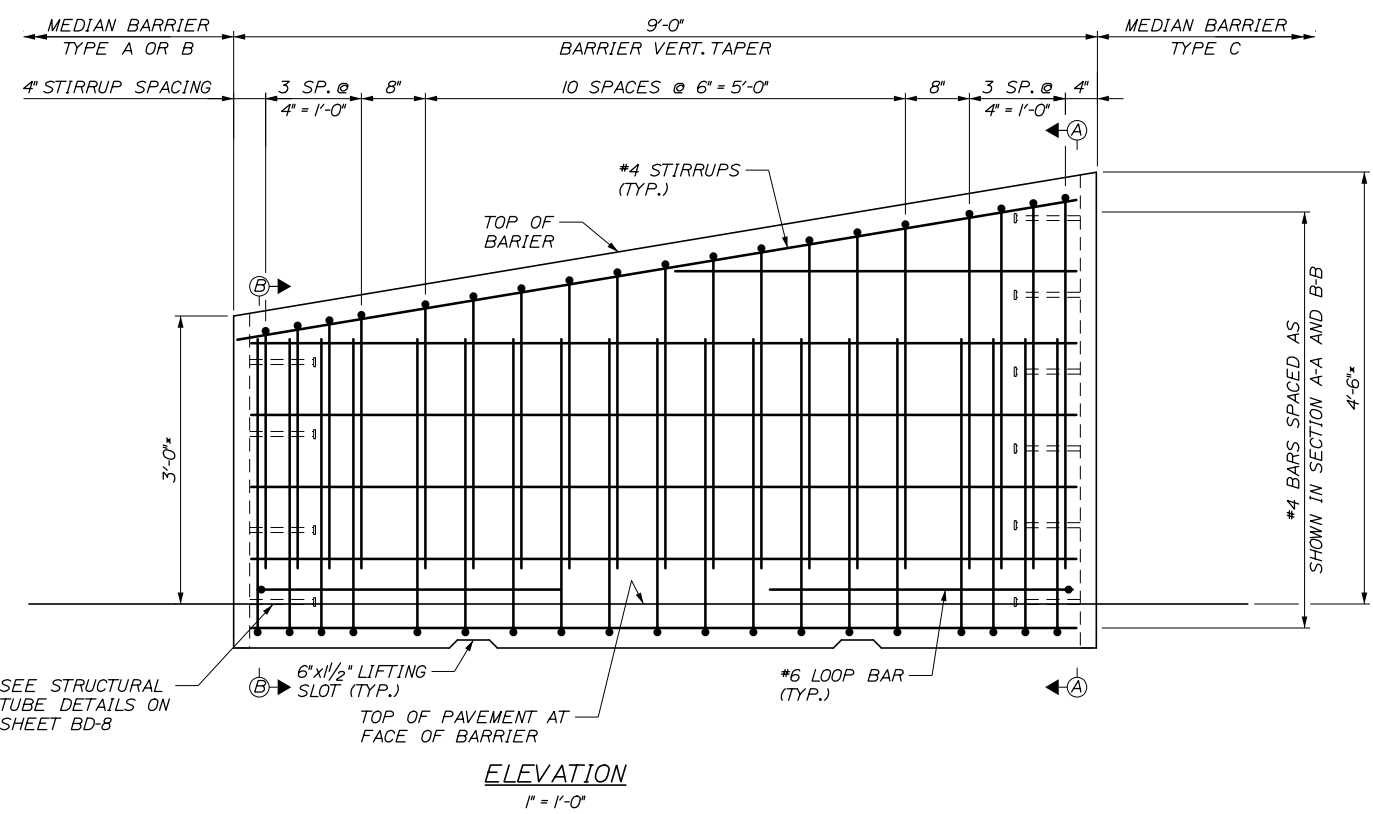
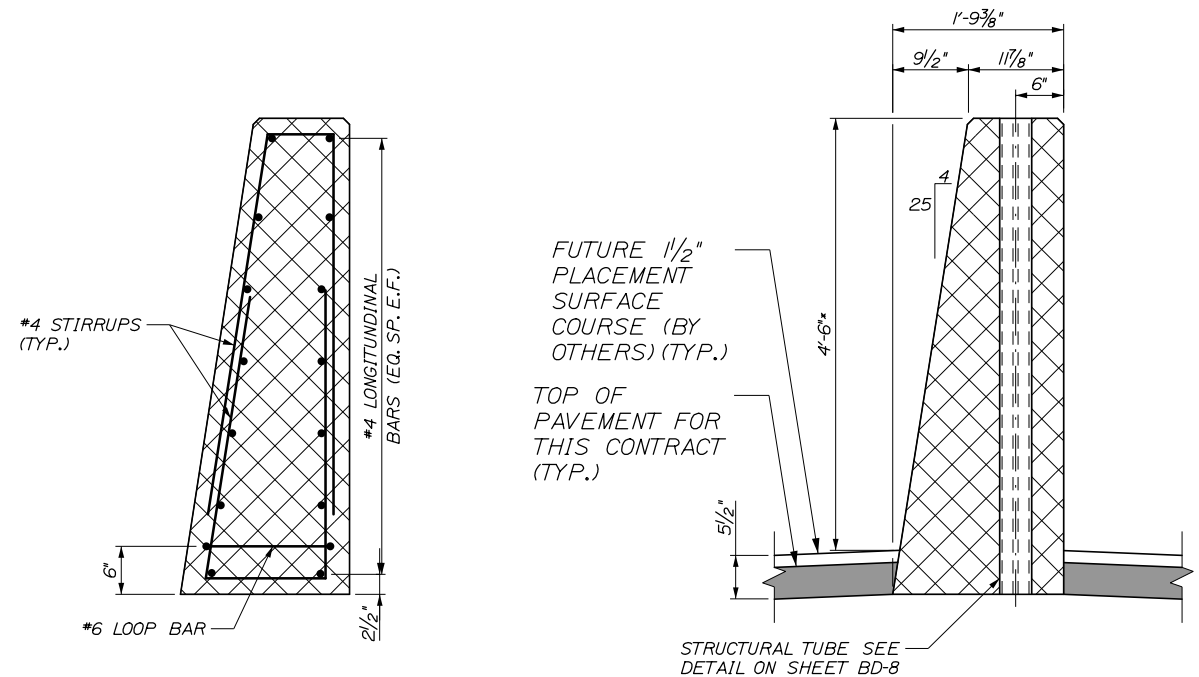
286 OF 310

Date: 2/25/2020

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	14	VARIABLE	
STIRRUPS	#4	14	VARIABLE	
STIRRUPS	#4	14	7'-4"	
LOOP BAR	#6	2	7'-9"	

#5 STIRRUP	#6 LOOP BAR (TOP VIEW)	#5 STIRRUP DIMENSIONS VARY

NOTE - NUMBER OF BARS PER 9 FT. SEGMENT OF STRUCTURE



- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-1.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-8.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
By	Date	By	Date
Designed	JDW 02\20	Checked	BRG 02\20
Drawn	PEB 02\20	In Charge of	RAL 02\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER
TYPE C TRANSITION BARRIER

SHEET NUMBER: BD-12
287 OF 310

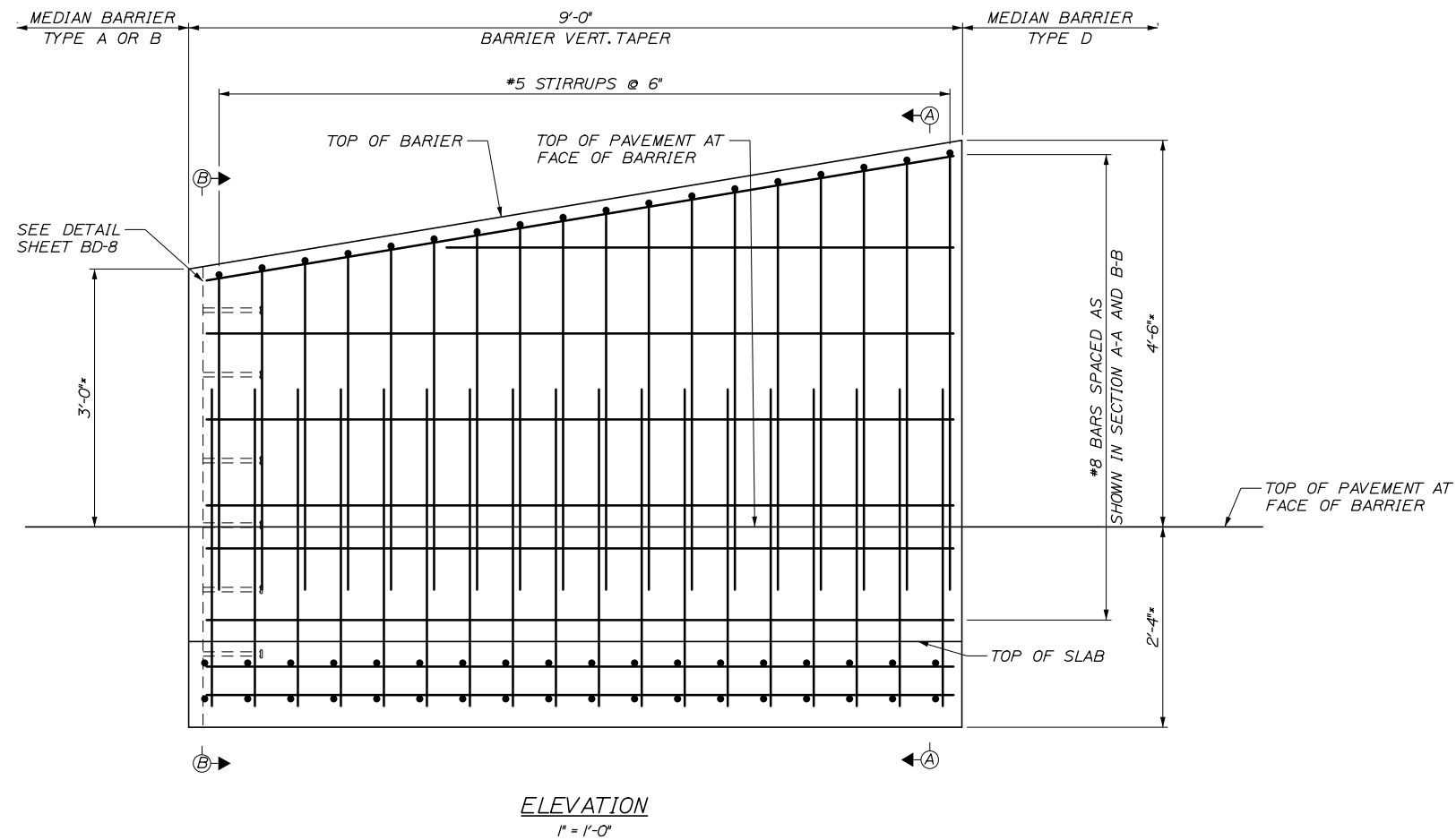
CONTRACT: 2020.03

Date: 2/25/2020

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#8	14	VARIES	
STIRRUPS	#5	18	8'-9"	
STIRRUPS	#5	18	VARIES	
TRANSVERSE FOOTING	#5	36	6'-10"	
LONGITUDINAL FOOTING	#5	18	8'-6"	

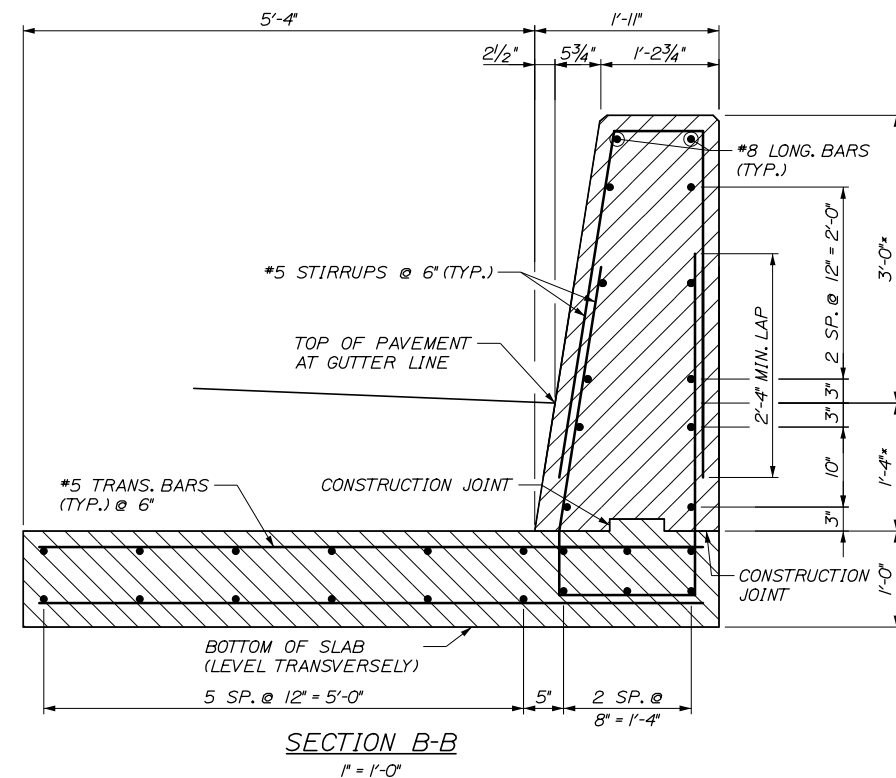
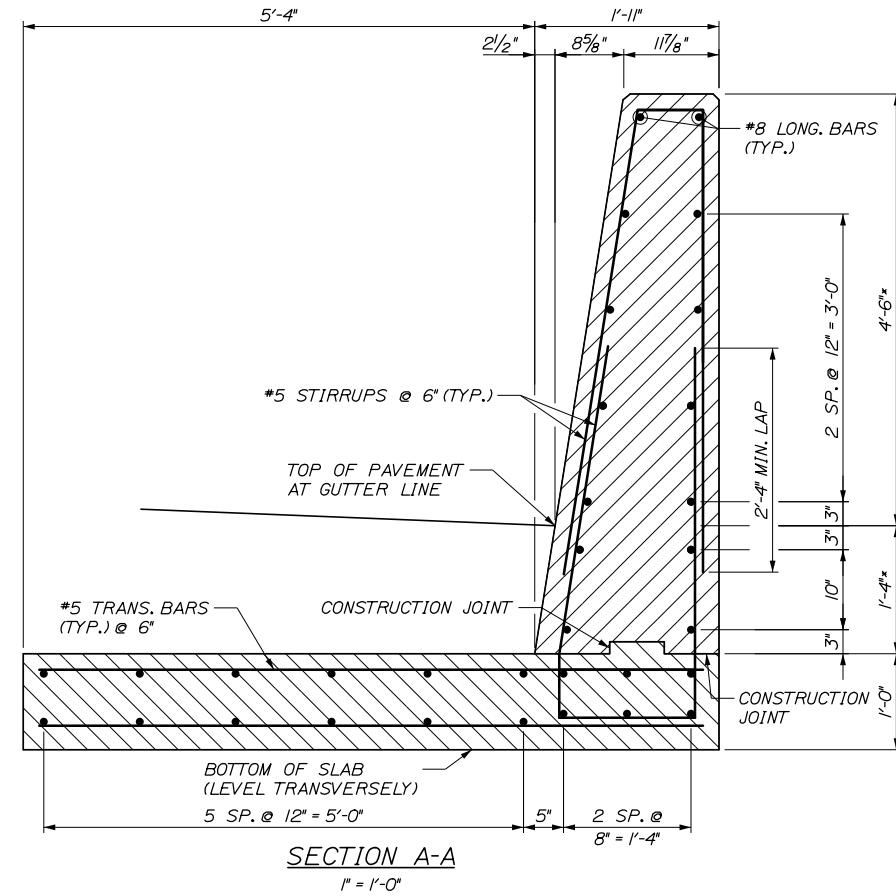
#5 STIRRUP BAR #5 STIRRUP BAR

DIMENSIONS VARY



- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-1.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-8.


* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.



Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
By	Date	By	Date
Designed	JDW 02\20	Checked	BRG 02\20
Drawn	PEB 02\20	In Charge of	RAL 02\20

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Westbrook, ME 04092
TEL (207) 774-5155
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MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
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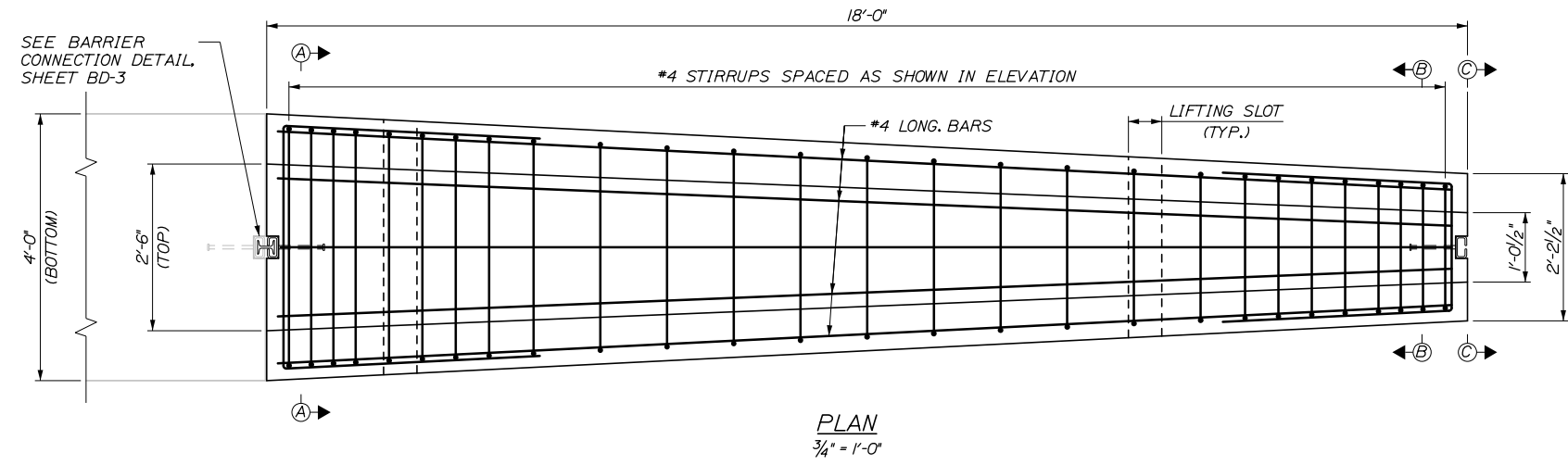
MEDIAN BARRIER
TYPE D TRANSITION BARRIER

SHEET NUMBER: BD-13
288 OF 310

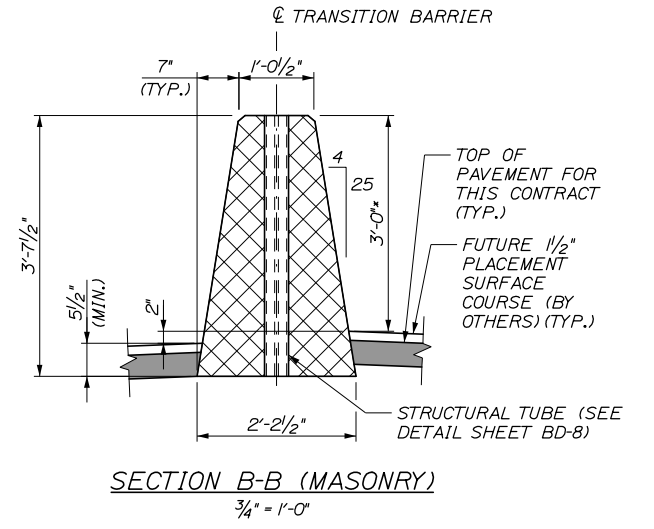
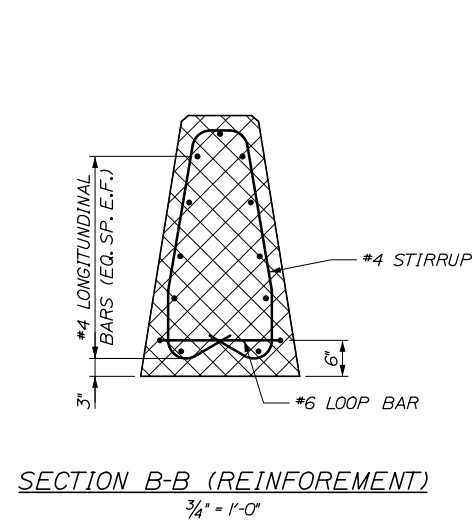
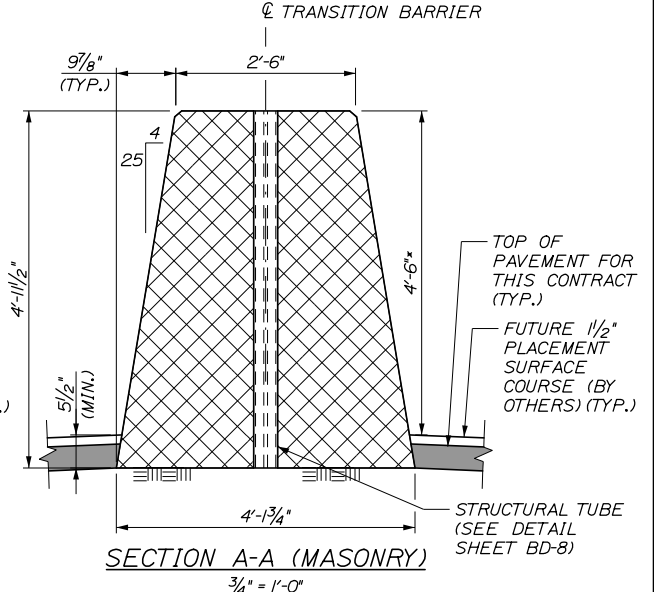
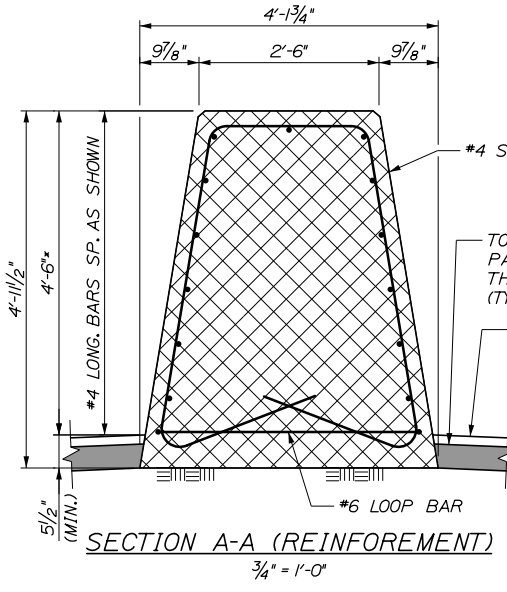
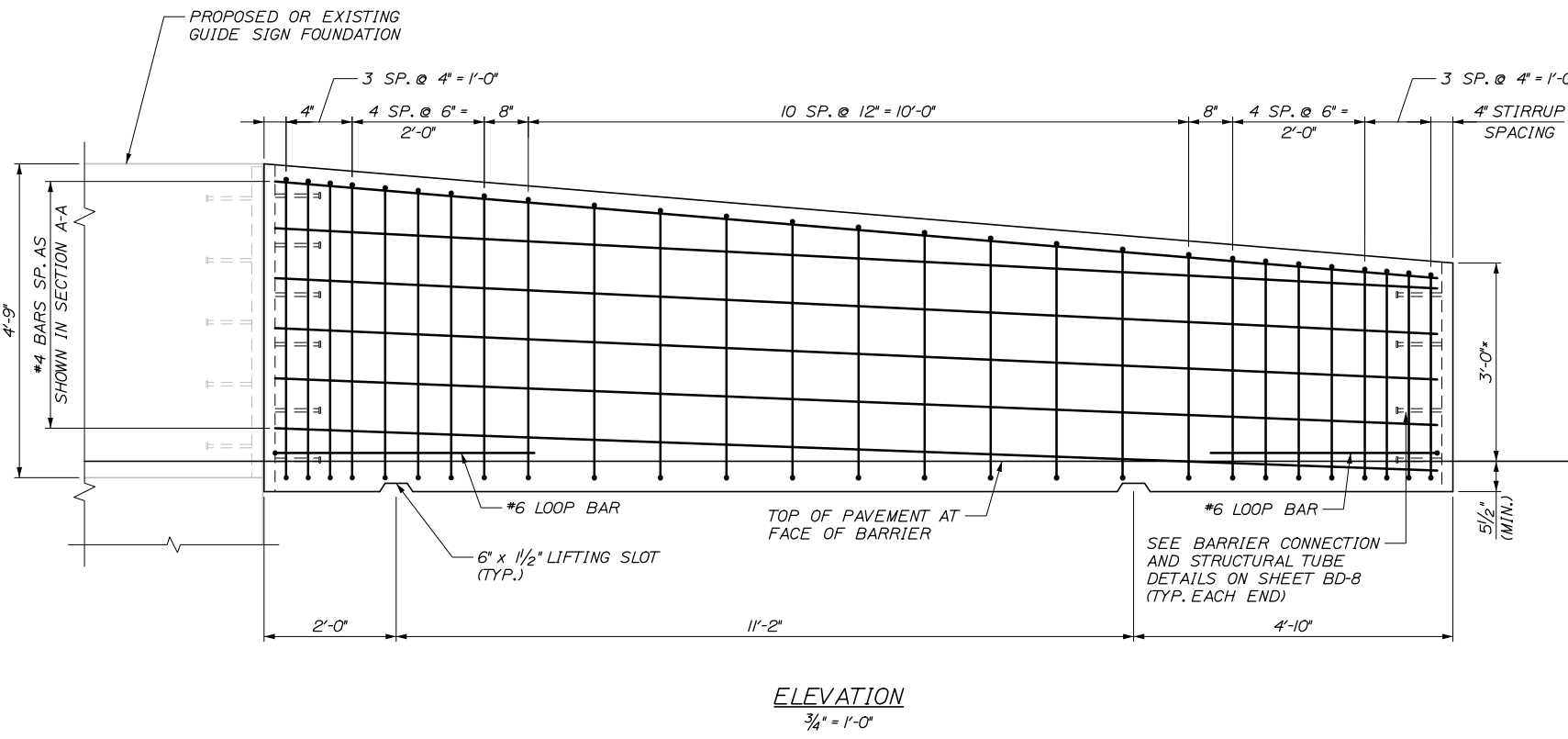
CONTRACT: 2020.03

Date: 2/25/2020

Filename: PAW1_Median Barrier - OHSS Foundation Transition Barrier



CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	13	17'-6"	
STIRRUPS	#4	27	VARIES	
LOOP BAR	#6	2	VARIES	



- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-1.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-8.

Scale:		AS NOTED	
Designed by:		HNTB	
No.	Revision	By	Date
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
	By	Date	
	By	Date	
	By	Date	

Designed by:				HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.							
	By	Date		By	Date		
	By	Date		By	Date		
	By	Date		By	Date		

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

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS

MEDIAN BARRIER

OHSS FOUNDATION TRANSITION BARRIER

SHEET NUMBER: BD-14

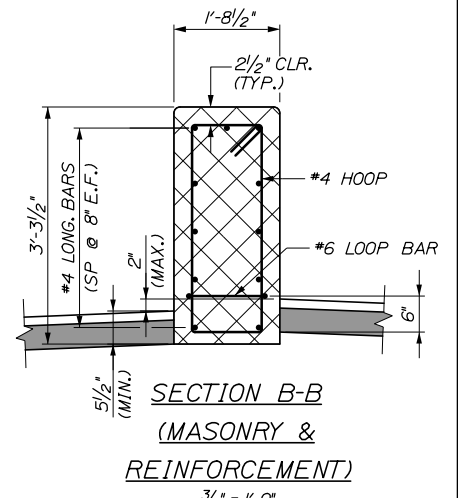
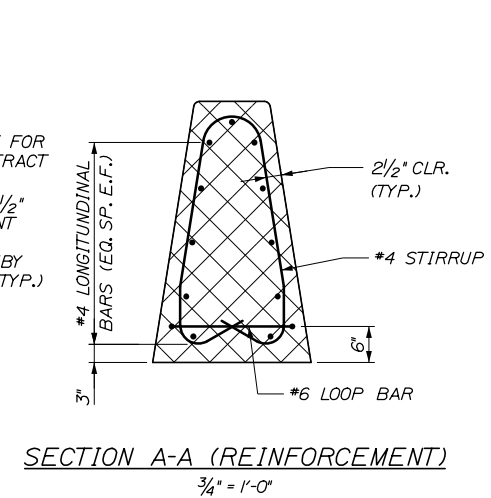
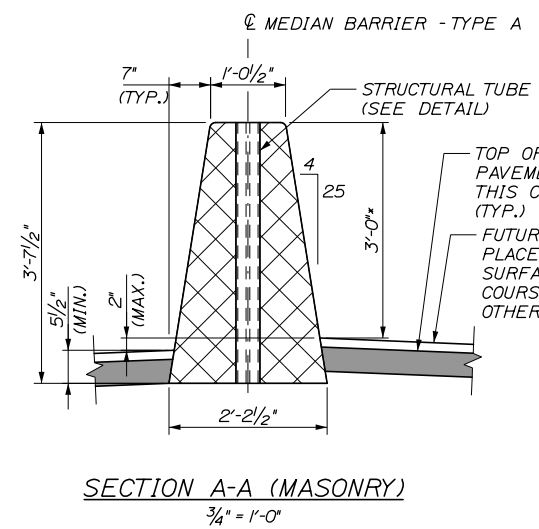
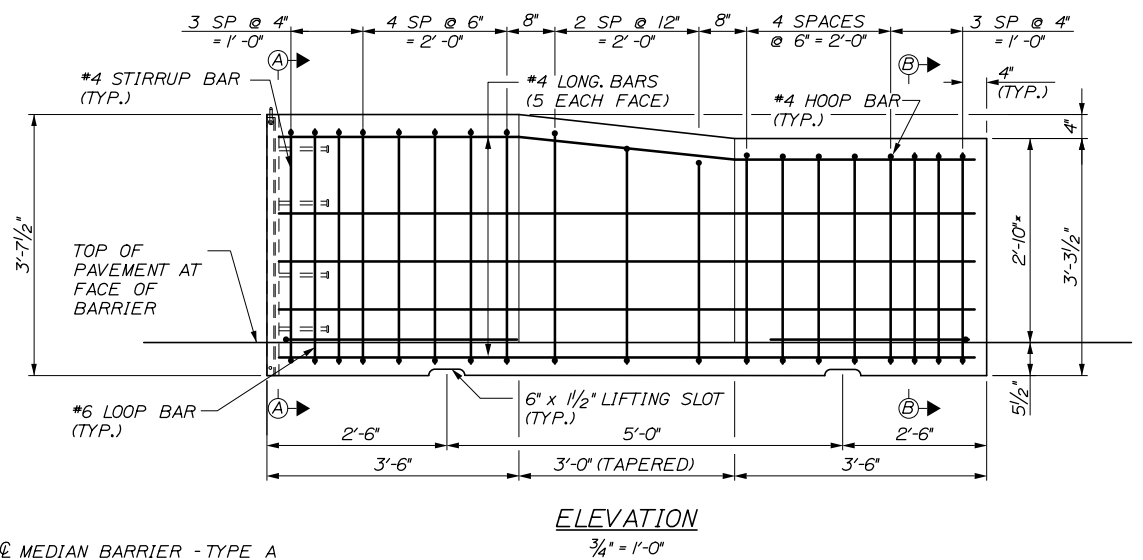
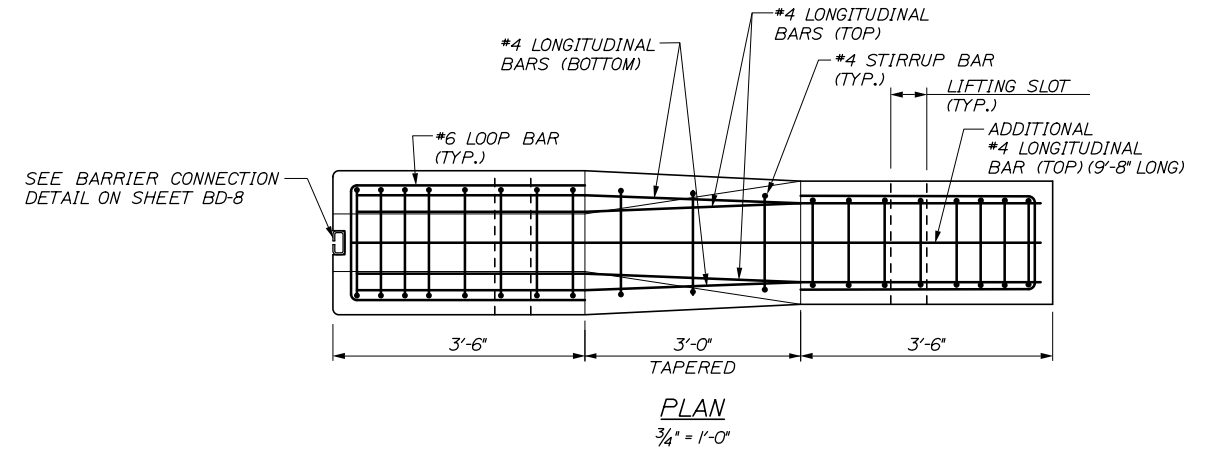
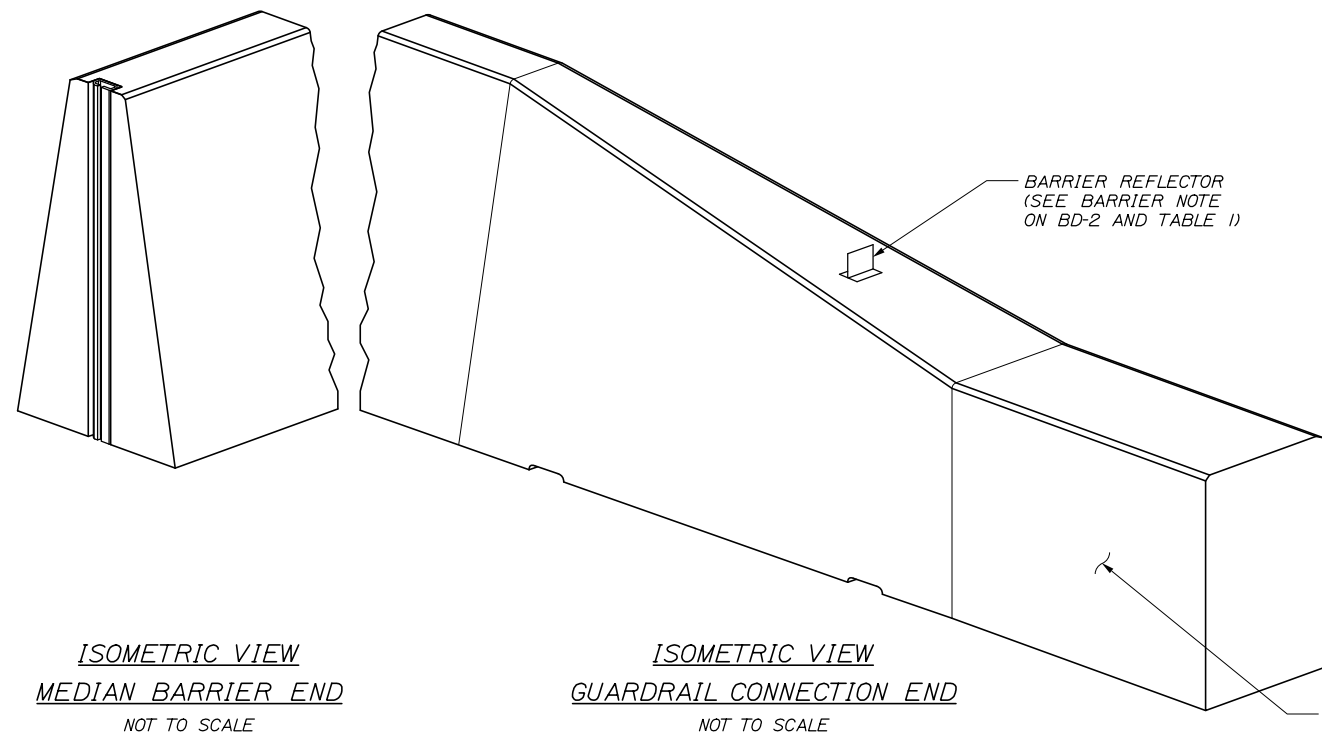
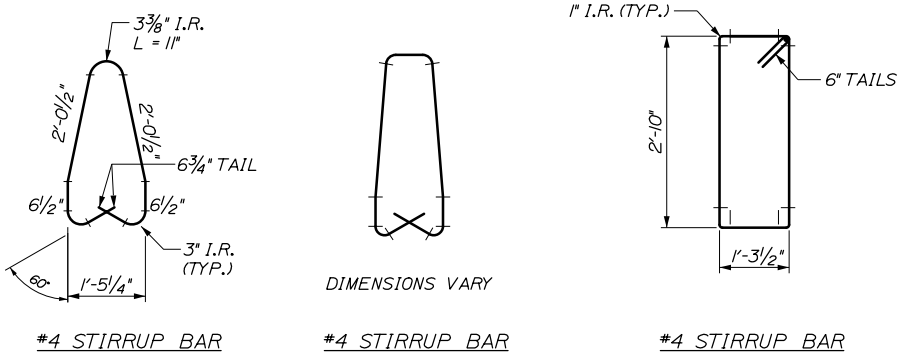
CONTRACT: 2020.03

289 OF 310

Date: 2/25/2020

Filename: PAW1_Median Barrier - Median Guardrail Transition Barrier

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	11	9'-6"	—
STIRRUPS	#4	8	7'-10"	⏏
STIRRUPS	#4	8	9'-3"	⏏
STIRRUPS	#4	3	VARIES	⏏
LOOP BAR	#6	2	VARIES	⏏



PREPARE FOR CONNECTION TO GUARDRAIL TRANSITION, TYPE III (MODIFIED)


- NOTES:**
- FOR BARRIER NOTES, SEE SHEET BD-1.
 - FOR ADDITIONAL DETAILS, SEE SHEET BD-8.
 - INSTALLATION OF MEDIAN GUARDRAIL TRANSITION, GUARDRAIL CONNECTION HARDWARE, AND SETTING OF THE TRANSITION BARRIER SHALL BE COORDINATED TO ENSURE PROPER VERTICAL ALIGNMENT OF THE BARRIER AND GUARDRAIL. SEE SHEET BD-16 FOR ADDITIONAL DETAILS.

* MEASURED FROM TOP OF FUTURE 1 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

Scale: AS NOTED				
No.	Revision	By	Date	

Designed by:				
HNTB				
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.				
	By	Date	By	Date
Designed	JDW	02\20	Checked	BRG 02\20
Drawn	PEB	02\20	In Charge of	RAL 02\20

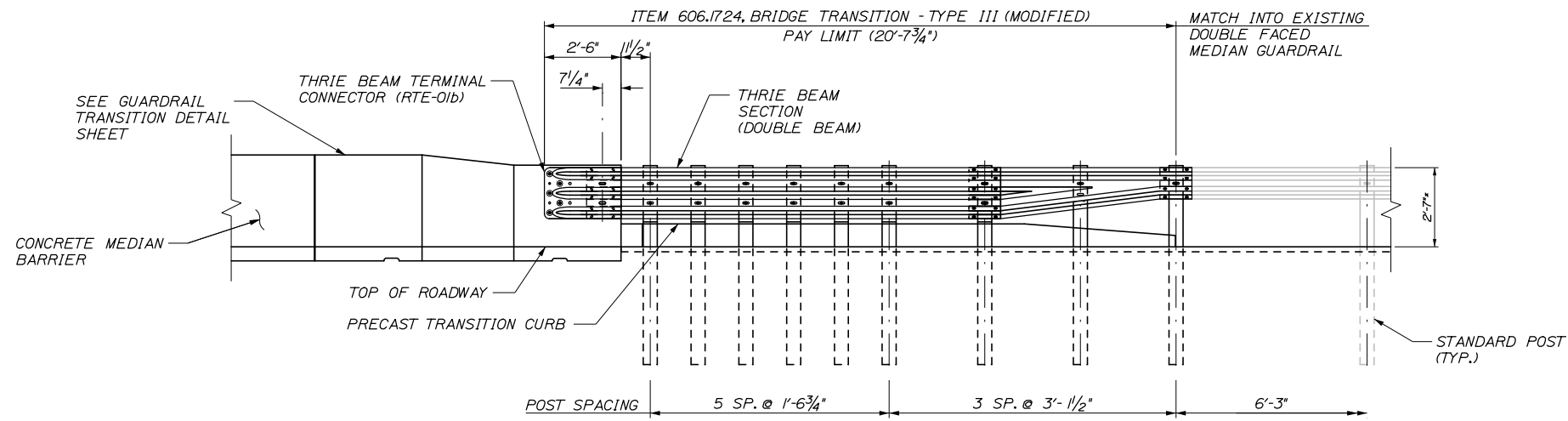
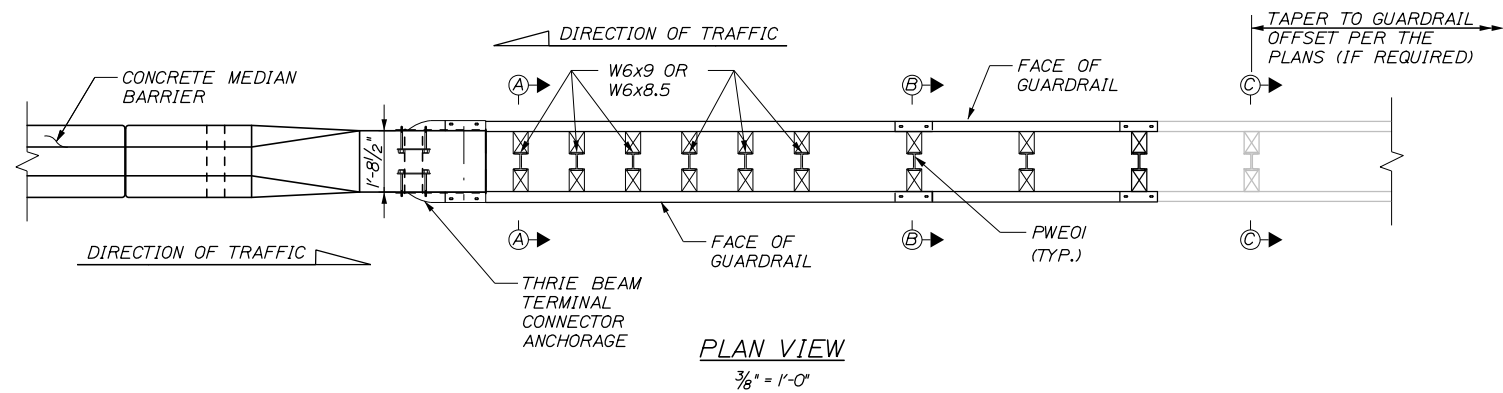
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Westbrook, ME 04092
TEL (207) 774-5155
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

**PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS**
 MEDIAN BARRIER
 MEDIAN GUARDRAIL TRANSITION BARRIER
 SHEET NUMBER: BD-15
 CONTRACT: 2020.03
 290 OF 310

Date: 2/25/2020

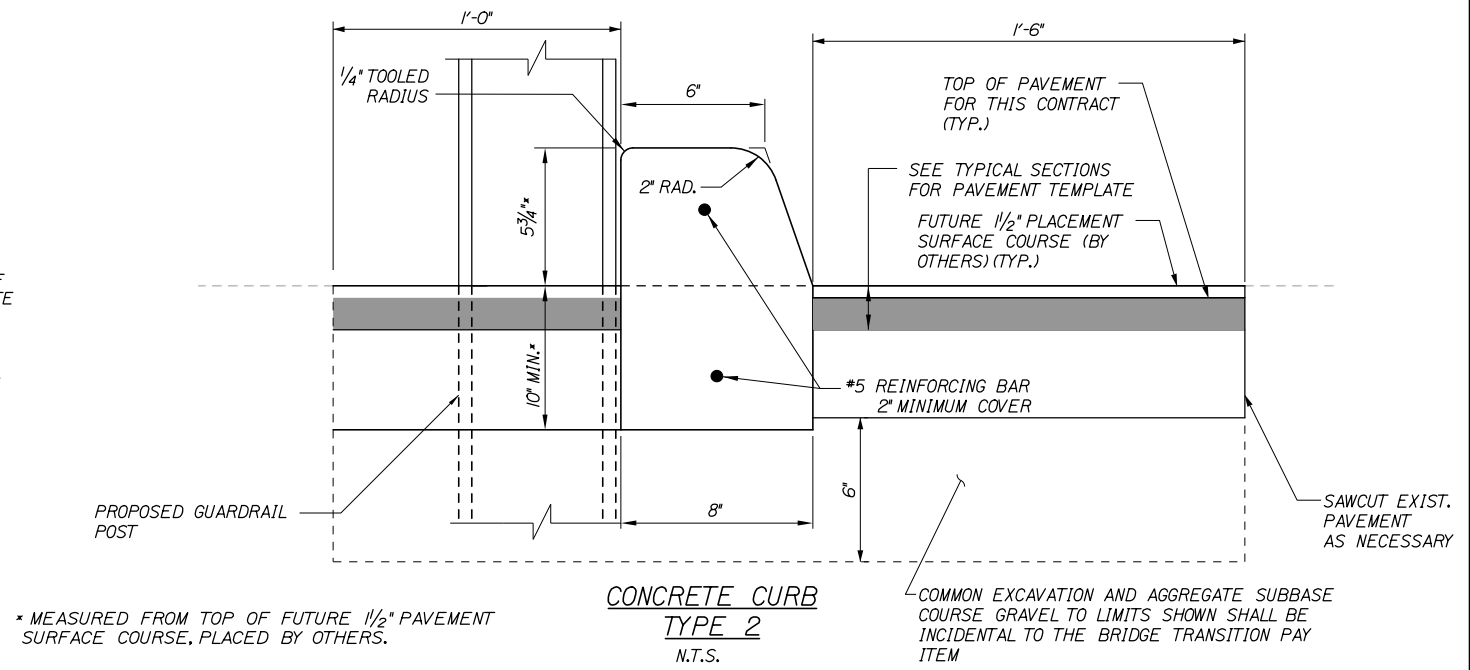
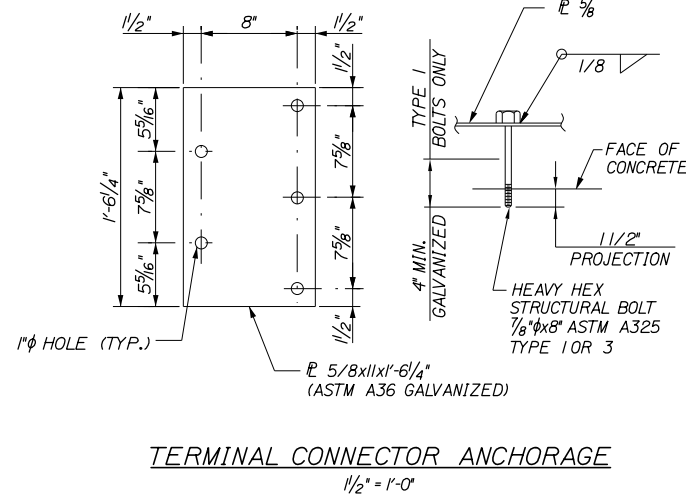
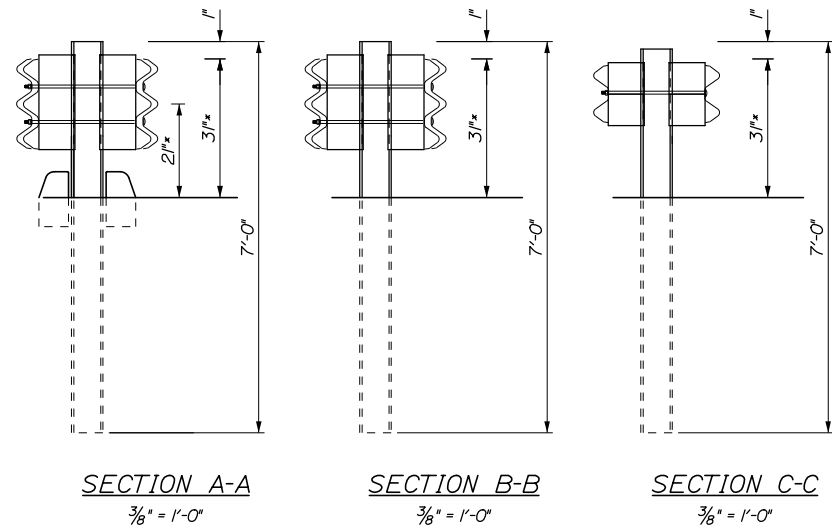


CURB NOTES:

1. CURBING SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS.
2. CONCRETE CURBS USED IN CONJUNCTION WITH THRIE-BEAM BRIDGE TRANSITION SHALL BE TYPE 2. SEE DETAILS THIS SHEET. CONCRETE CURBS SHALL BE SET TO FORM A CONTINUOUS GUTTERLINE WITHOUT ANY DRAINAGE OPENINGS.
3. CURB TRANSITION SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.
4. SAWCUTTING EXISTING PAVEMENT, CONCRETE FILL, AND PAVEMENT TO LIMITS SHOWN SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.

NOTES:

1. ADDITIONAL HOLES MAY BE MADE IN THE THRIE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN HOLE. BURNING HOLES WILL NOT BE ALLOWED.
2. THRIE BEAM SHALL BE PLACED WITH THE COMPOSITE BLOCKOUT FACE IN FRONT OF OR DIRECTLY ABOVE THE CURB FACE.
3. STANDARD BARRIER HARDWARE HAS BEEN USED TO DEVELOP THESE GUARDRAIL ATTACHMENTS. DESIGNATIONS PROVIDED IN PARENTHESIS RELATE TO STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED BARRIER RAIL HARDWARE," 1995. AASHTO-AGC-ARTBA JOINT COOPERATE COMMITTEE, 2013 UPDATE.
4. RAIL ELEMENT SHALL MEET ALL THE REQUIREMENTS OF AASHTO M-180 EXCEPT AS MODIFIED ON THE PLANS. THE THRIE-BEAM TRANSITIONS TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE LESS THAN 10 GAUGE.
5. AFTER INSTALLATION IS COMPLETE, UPSET THE THREAD ON THE ANCHOR BOLTS IN THREE PLACES AROUND EACH BOLT, AT THE CENTER OF THE JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER PUNCH OR SIMILAR TOOL.
6. 1" HOLE IN CONCRETE SHALL BE FORMED BY A METHOD APPROVED BY THE ENGINEER.
7. GUARDRAIL HEIGHT SHALL BE ADJUSTED UNIFORMLY BETWEEN SECTION CALLOUTS.




Filename: PAW1_Median Barrier - Median Guardrail Transition Detail

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.			
	By	Date	

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340 County Road, Suite 6-C
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

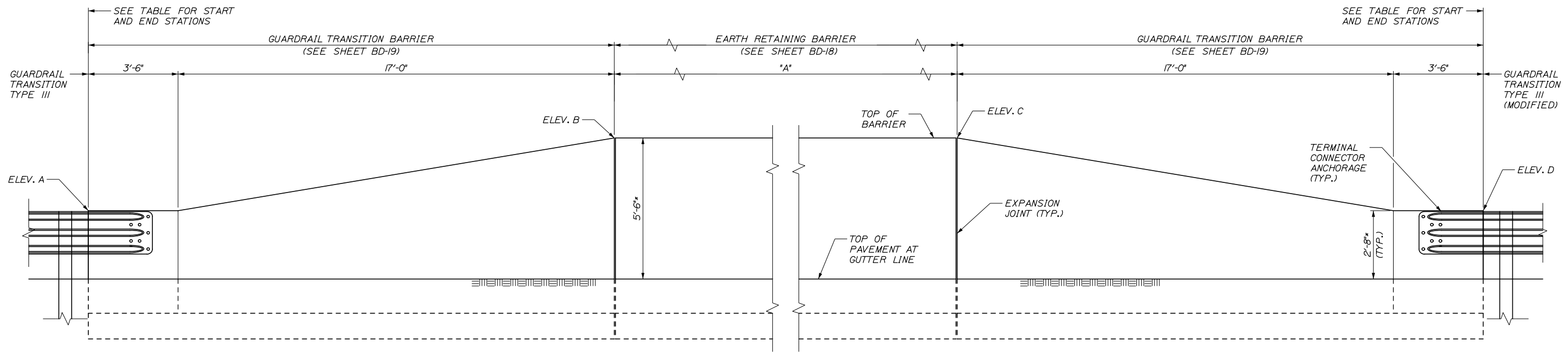
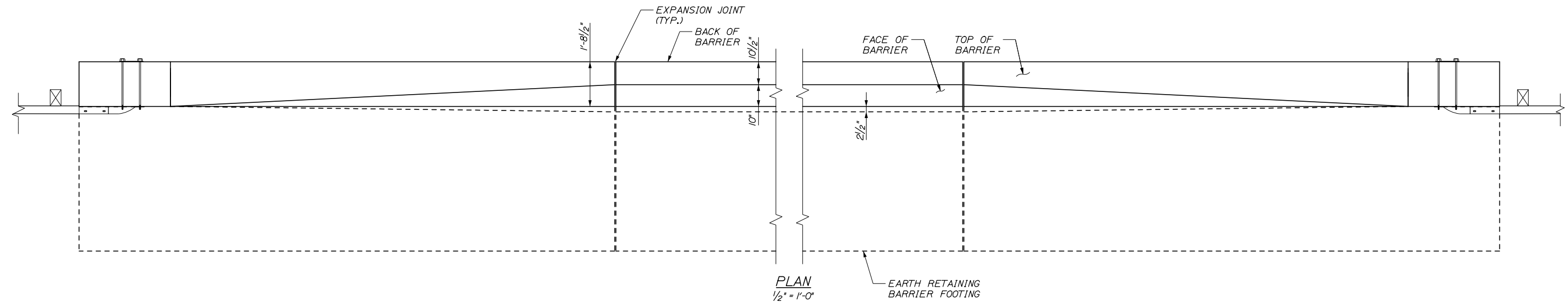
PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

MEDIAN BARRIER
MEDIAN GUARDRAIL TRANSITION DETAIL

SHEET NUMBER: BD-16
CONTRACT: 2020.03
291 OF 310

Date: 2/25/2020

Filename: PAW1_Earth Retaining Barrier - Location and Layout Plan



* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

STRUCTURE	BOUND	START STA.	END STA.	LENGTH "A"	ELEV. A	ELEV. B	ELEV. C	ELEV. D
GORHAM ROAD UNDERPASS	SB	2176+74.61	2177+94.61	79	64.71	67.91	69.31	66.84
I-295 UNDERPASS	SB	2190+50.00	2192+92.27	201.27	68.50	71.31	70.94	68.05
I-295 UNDERPASS	NB	2193+25.00	2196+00.00	234	68.02	70.82	70.36	67.62
RUNNING HILL ROAD UNDERPASS	NB	2250+04.24	2251+50.00	104.76	69.31	72.19	72.51	69.74

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

	By	Date		By	Date
Designed	JDW	02\20	Checked	BRG	02\20
Drawn	PEB	02\20	In Charge of	RAL	02\20

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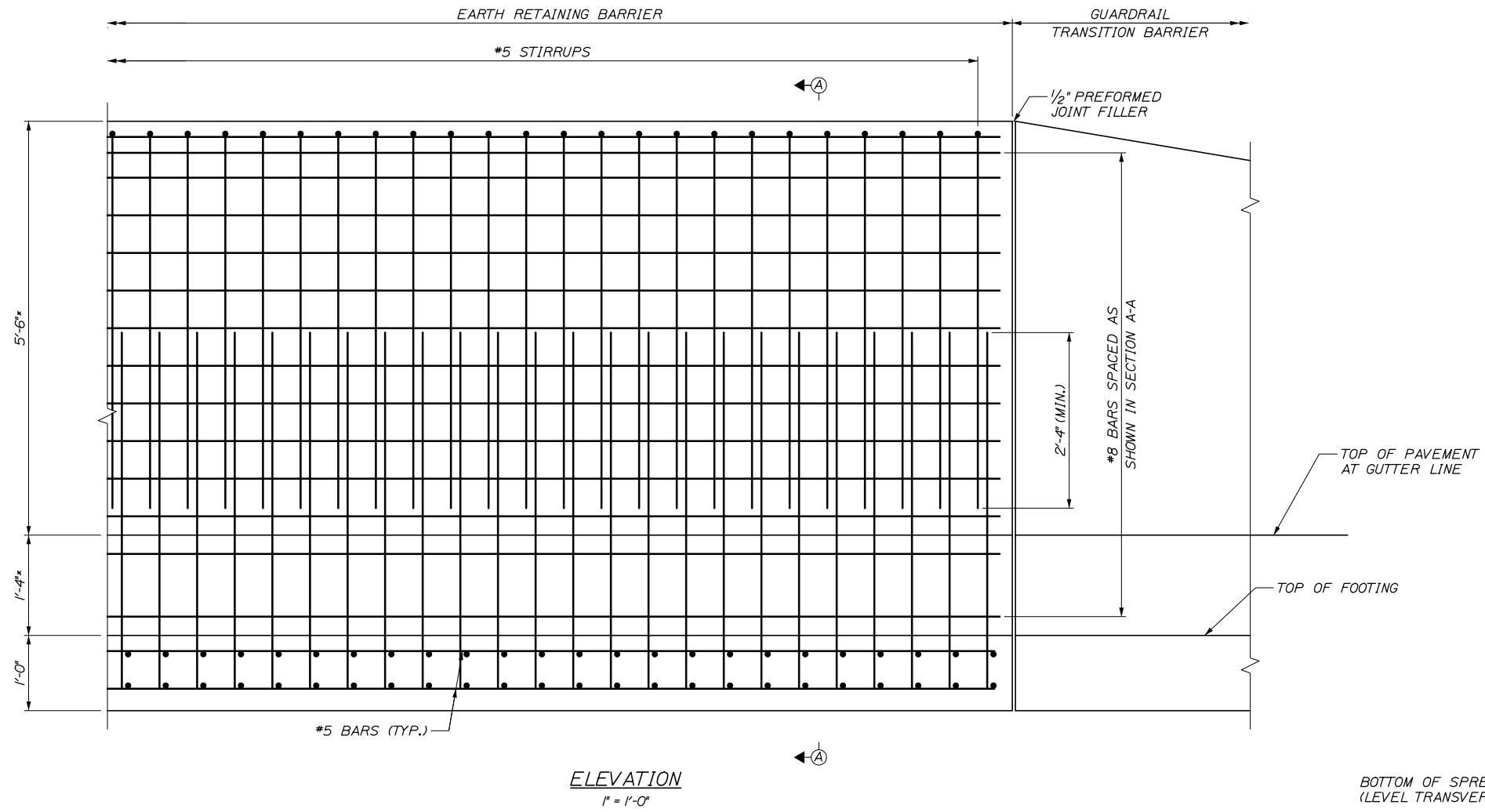
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
EARTH RETAINING BARRIER LOCATION AND LAYOUT PLAN

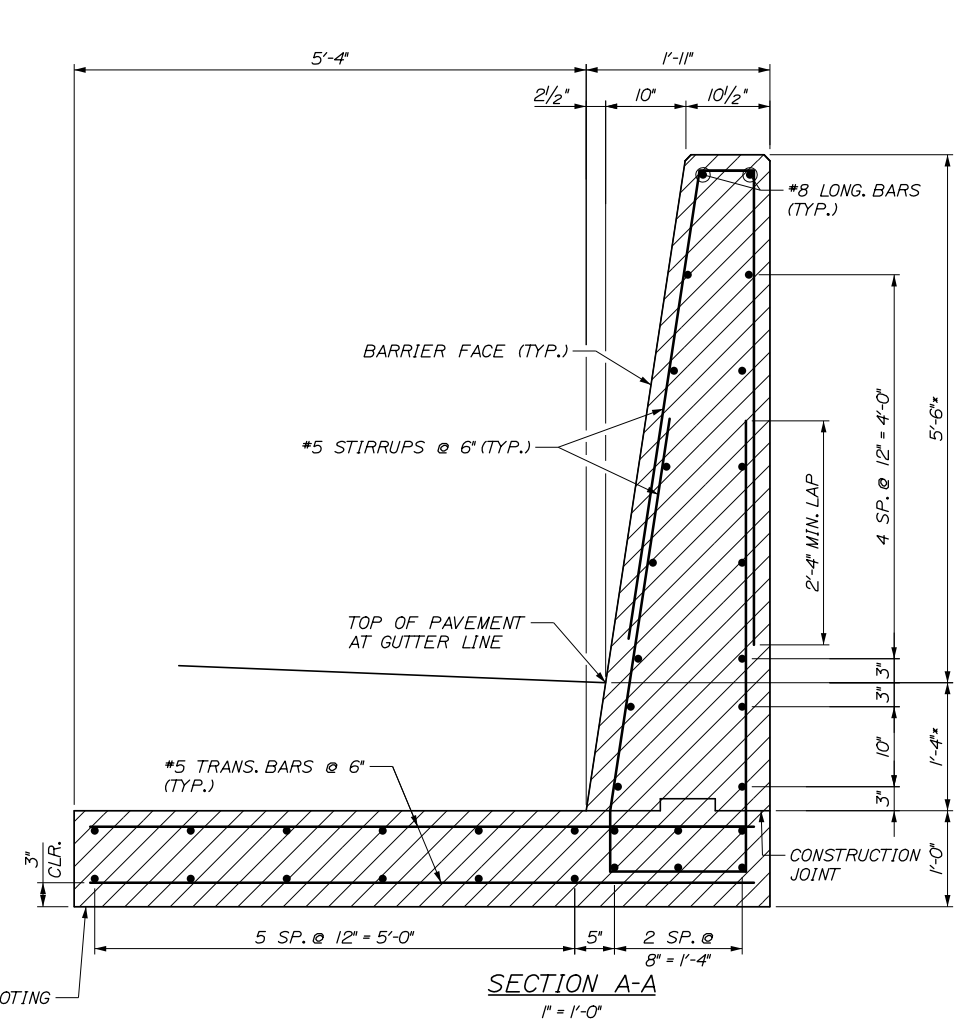
SHEET NUMBER: BD-17
CONTRACT: 2020.03
292 OF 310

Date: 2/25/2020

Filename: PAW1_Earth Retaining Barrier - Details I



ELEVATION
1" = 1'-0"



SECTION A-A
1" = 1'-0"

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
STIRRUPS	#5	20	11'-2"	
STIRRUPS	#5	20	10'-7"	
TRANSVERSE FOOTING	#5	40	6'-10"	
LONGITUDINAL	#8	16	DETERMINED BY CONTRACTOR	
LONGITUDINAL FOOTING	#5	18	DETERMINED BY CONTRACTOR	

#5 STIRRUP BAR

#5 STIRRUP BAR

NOTE - NUMBER OF TRANSVERSE BARS PER 10 FT. SEGMENT OF STRUCTURE. LONGITUDINAL BAR LENGTH SHALL BE DETERMINED BY CONTRACTOR. MINIMUM SLICE LENGTHS SHALL BE:
 #5 - 2'-4"
 #8 - 4'-2"
 SPLICES SHALL BE STAGGERED A MINIMUM OF 8 FT.

* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.

By	Date	By	Date
Designed	JDW 02\20	Checked	BRG 02\20
Drawn	PEB 02\20	In Charge of	RAL 02\20

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THE GOLD STAR
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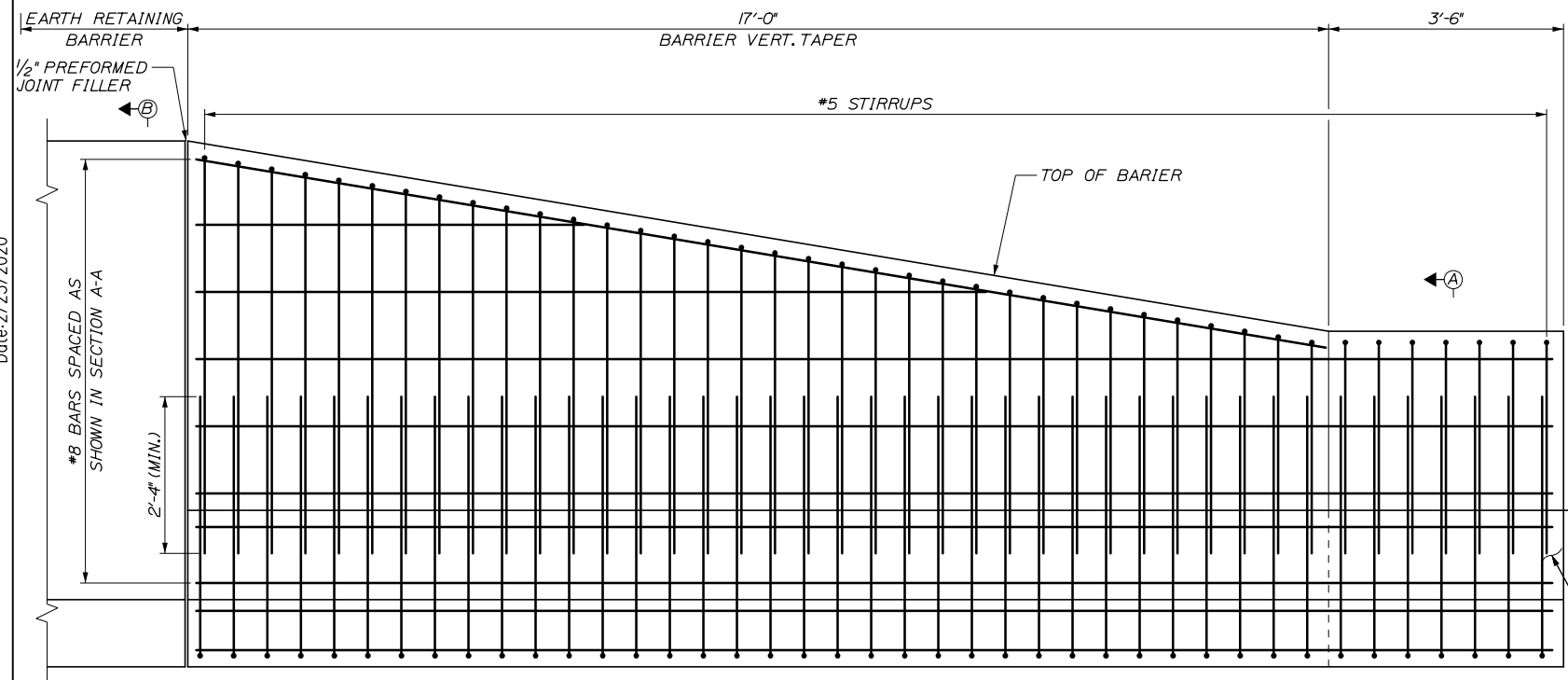
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
EARTH RETAINING BARRIER
DETAILS I

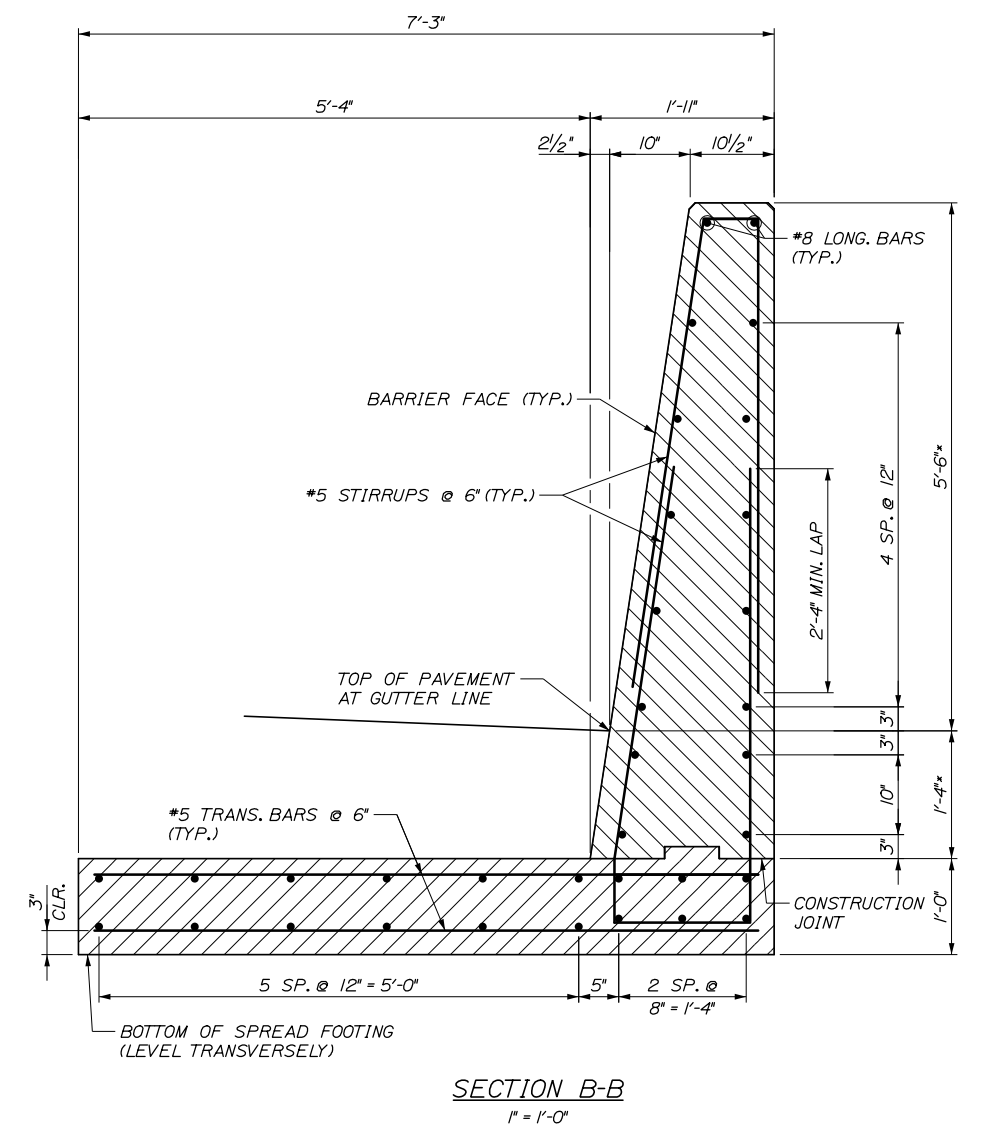
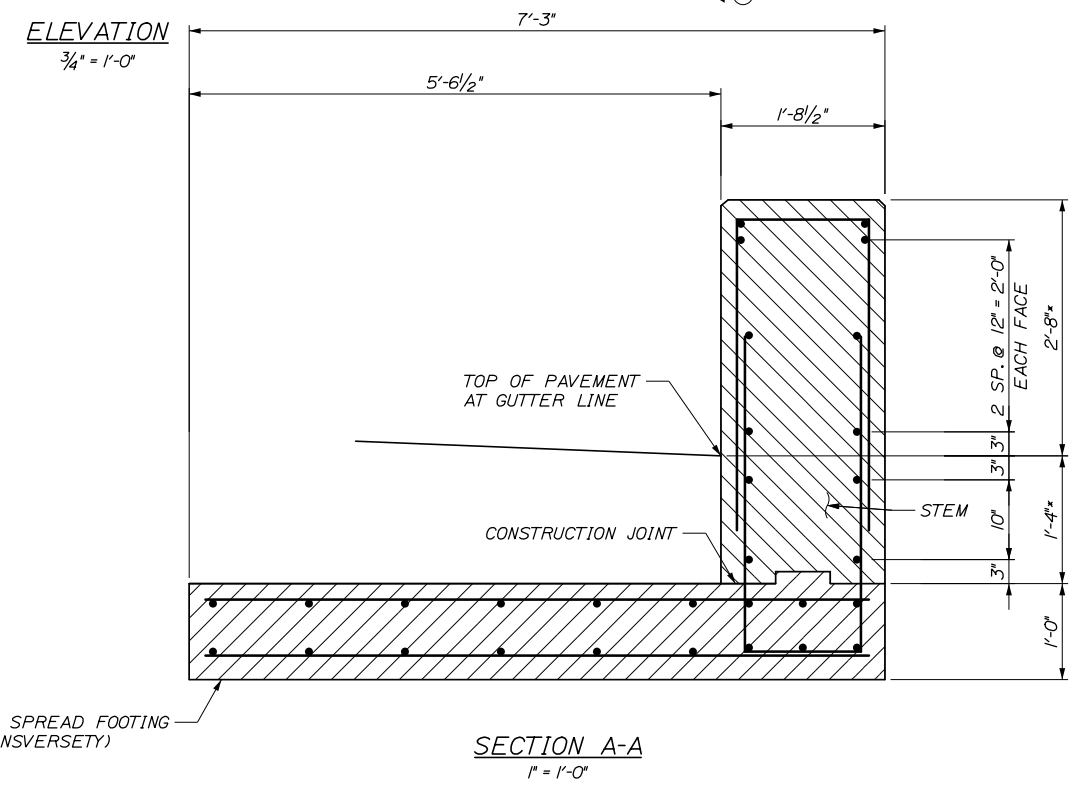
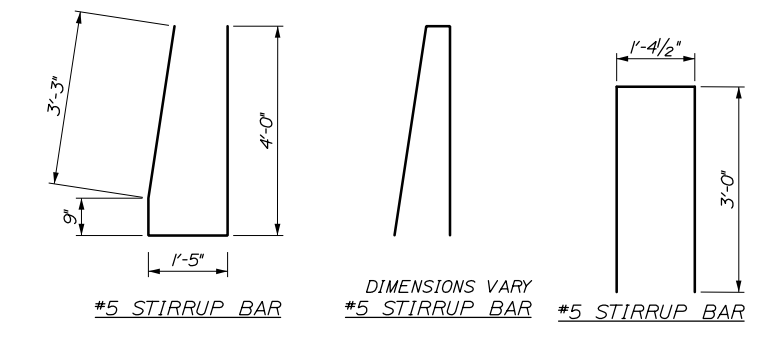
SHEET NUMBER: BD-18
CONTRACT: 2020.03
293 OF 310

Date: 2/25/2020

Filename: PAW1_Earth Retaining Barrier - Details II



CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#8	16	VARIES	
STIRRUPS	#5	34	9'-5"	
STIRRUPS	#5	34	VARIES	
STIRRUPS	#5	14	8'-5"	
TRANSVERSE FOOTING	#5	34	6'-11"	
LONGITUDINAL FOOTING	#5	18	20'-1"	




* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
By	Date	By	Date
Designed	JDW 02\20	Checked	BRG 02\20
Drawn	PEB 02\20	In Charge of	RAL 02\20

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**THE GOLD STAR
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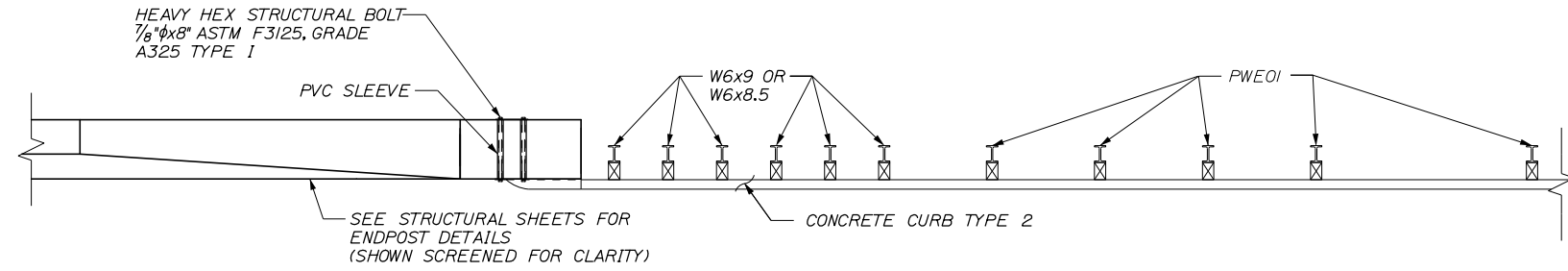
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
EARTH RETAINING BARRIER
DETAILS II

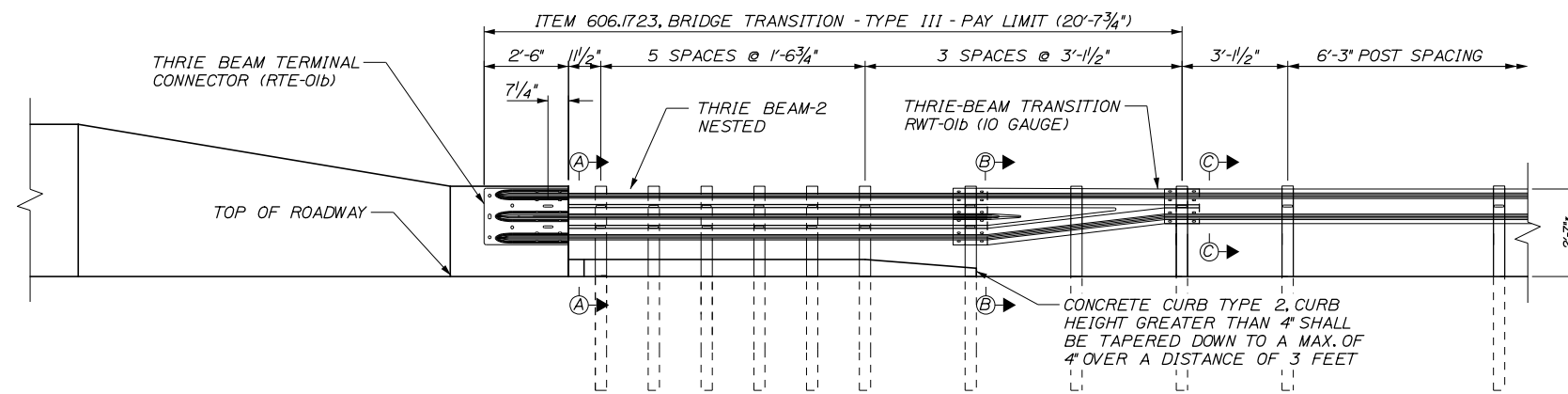
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CONTRACT: 2020.03
294 OF 310

Date: 2/25/2020

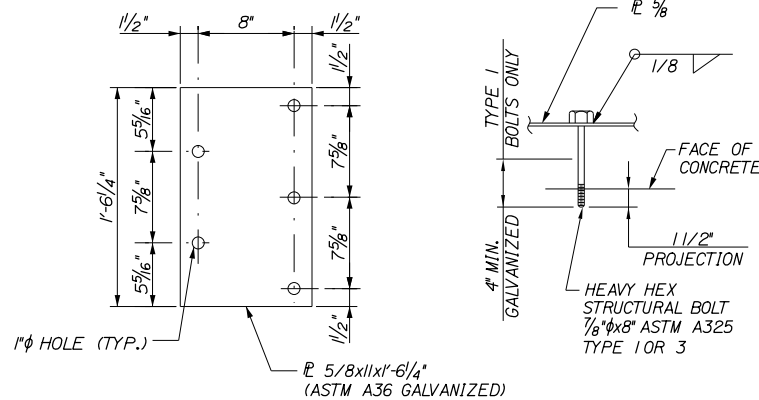
Filename: PAW1_Earth Retaining Barrier - Guardrail Transition Details



PLAN VIEW
3/8" = 1'-0"



BRIDGE TRANSITION - TYPE III
3/8" = 1'-0"



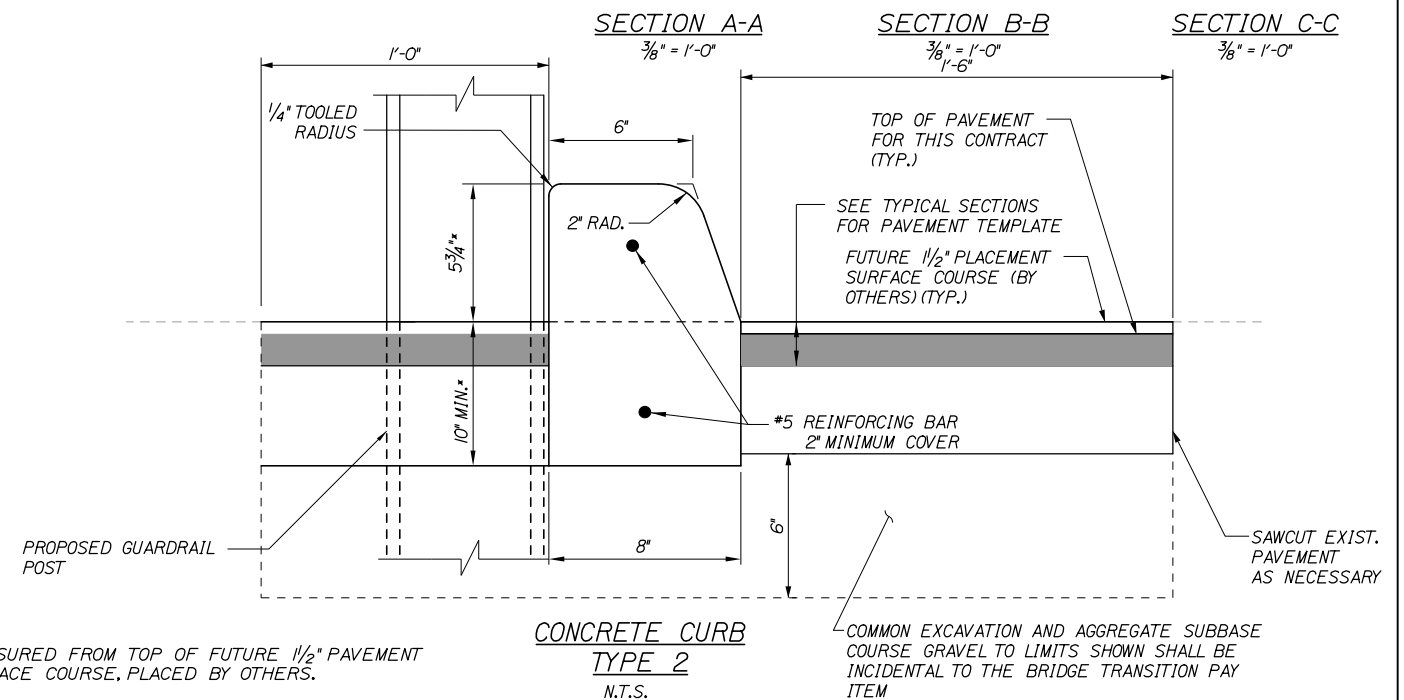
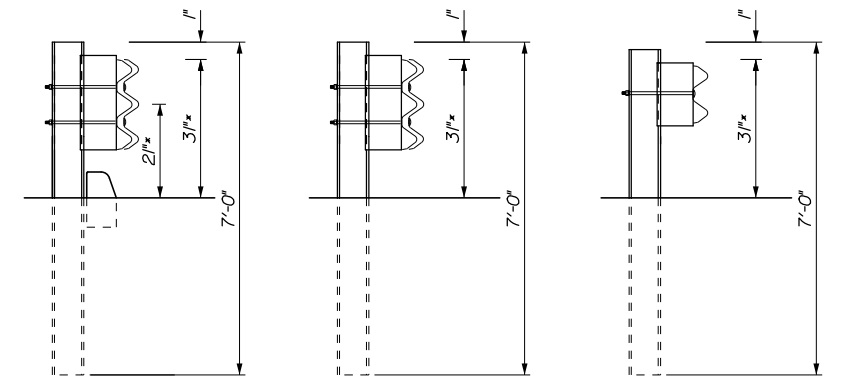
TERMINAL CONNECTOR ANCHORAGE
1/2" = 1'-0"

CURB NOTES:

- CURBING SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS. CONCRETE CURBS USED IN CONJUNCTION WITH THRIE-BEAM BRIDGE TRANSITION SHALL BE TYPE 2. SEE DETAILS THIS SHEET. CONCRETE CURBS SHALL BE SET TO FORM A CONTINUOUS GUTTERLINE WITHOUT ANY DRAINAGE OPENINGS.
- CURB TRANSITION SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.
- SAWCUTTING EXISTING PAVEMENT, CONCRETE FILL, AND PAVEMENT TO LIMITS SHOWN SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.

NOTES:

- ADDITIONAL HOLES MAY BE MADE IN THE THRIE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN HOLE. BURNING HOLES WILL NOT BE ALLOWED.
- THRIE BEAM SHALL BE PLACED WITH THE COMPOSITE BLOCKOUT FACE IN FRONT OF OR DIRECTLY ABOVE THE CURB FACE.
- STANDARD BARRIER HARDWARE HAS BEEN USED TO DEVELOP THESE GUARDRAIL ATTACHMENTS. DESIGNATIONS PROVIDED IN PARENTHESIS RELATE TO STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED BARRIER RAIL HARDWARE," 1979, AASHTO-AGC-ARTBA JOINT COOPERATE COMMITTEE.
- RAIL ELEMENT SHALL MEET ALL THE REQUIREMENTS OF AASHTO M-180 EXCEPT AS MODIFIED ON THE PLANS. THE THRIE-BEAM TRANSITIONS TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE LESS THAN 10 GAUGE.
- AFTER INSTALLATION IS COMPLETE, UPSET THE THREAD ON THE ANCHOR BOLTS IN THREE PLACES AROUND EACH BOLT, AT THE CENTER OF THE JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER PUNCH OR SIMILAR TOOL.
- 1" HOLE IN CONCRETE SHALL BE FORMED BY A METHOD APPROVED BY THE ENGINEER.
- GUARDRAIL HEIGHT SHALL BE ADJUSTED UNIFORMLY BETWEEN SECTION CALLOUTS.



Scale: AS NOTED

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Dale A. Mitchell, P.E.

	By	Date		By	Date
Designed	JDW	02\20	Checked	BRG	02\20
Drawn	PEB	02\20	In Charge of	RAL	02\20

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340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS

EARTH RETAINING BARRIER GUARDRAIL TRANSITION DETAILS

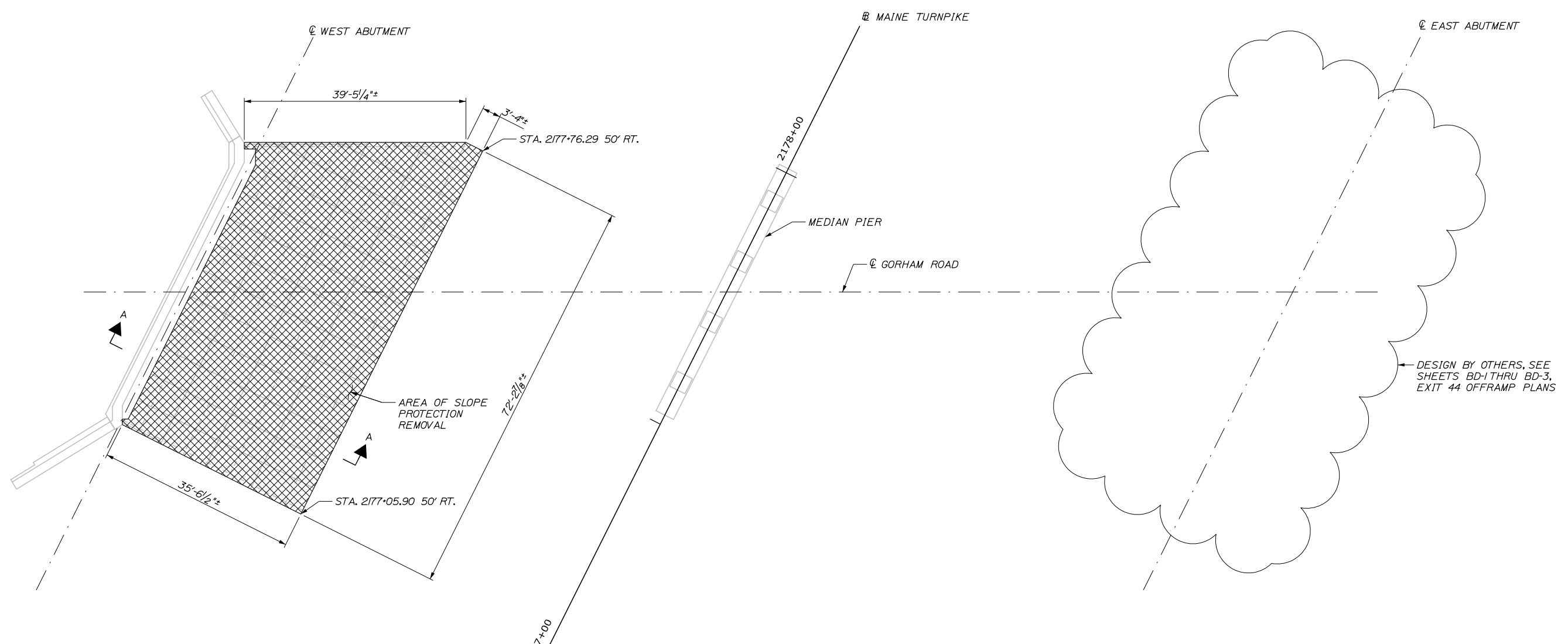
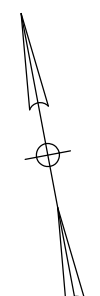
SHEET NUMBER: BD-20

CONTRACT: 2020.03

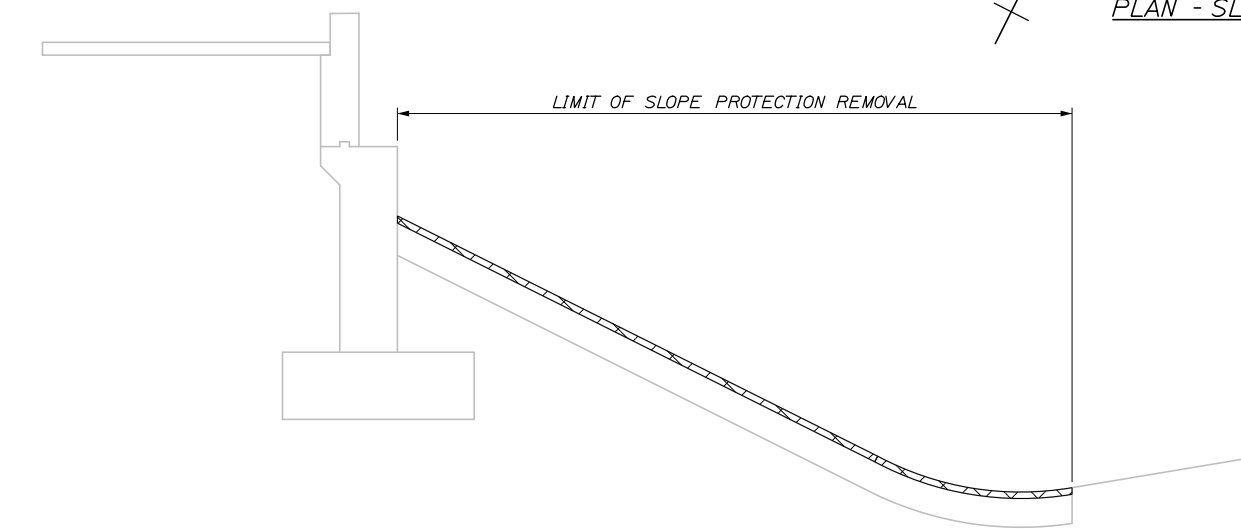
295 OF 310

Date: 2/25/2020

Filename: PAW1_Slope Protection Modifications - Demolition - Gorham Road



PLAN - SLOPE PROTECTION DEMOLITION
1" = 10'-0"



SECTION A-A
1" = 5'-0"

NOTES:
1. REMOVAL OF EXISTING CONCRETE SLOPE PROTECTION PAVEMENT SHALL BE INCIDENTAL TO PAY ITEM 513.09.

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
Designed	BRG	02\20	Checked JDW 02\20
Drawn	ERB	02\20	In Charge of RAL 02\20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

SLOPE PROTECTION MODIFICATIONS
DEMOLITION - GORHAM ROAD

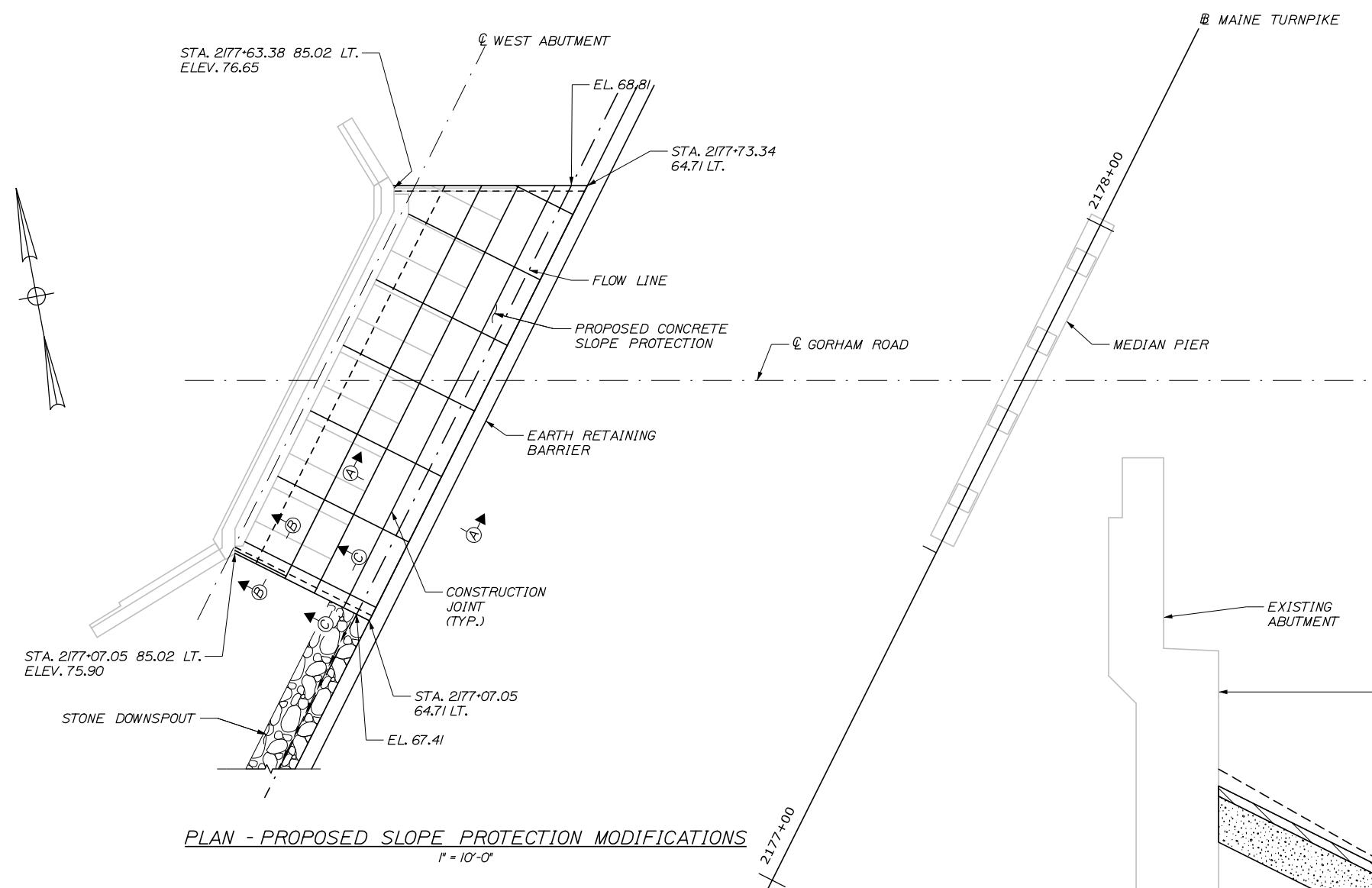
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CONTRACT: 2020.03

296 OF 310

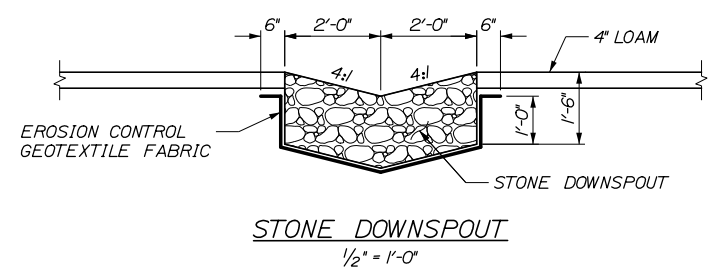
Date: 2/25/2020

Filename: PAW1_Slope Protection Modifications - Proposed Layout - Gorham Road

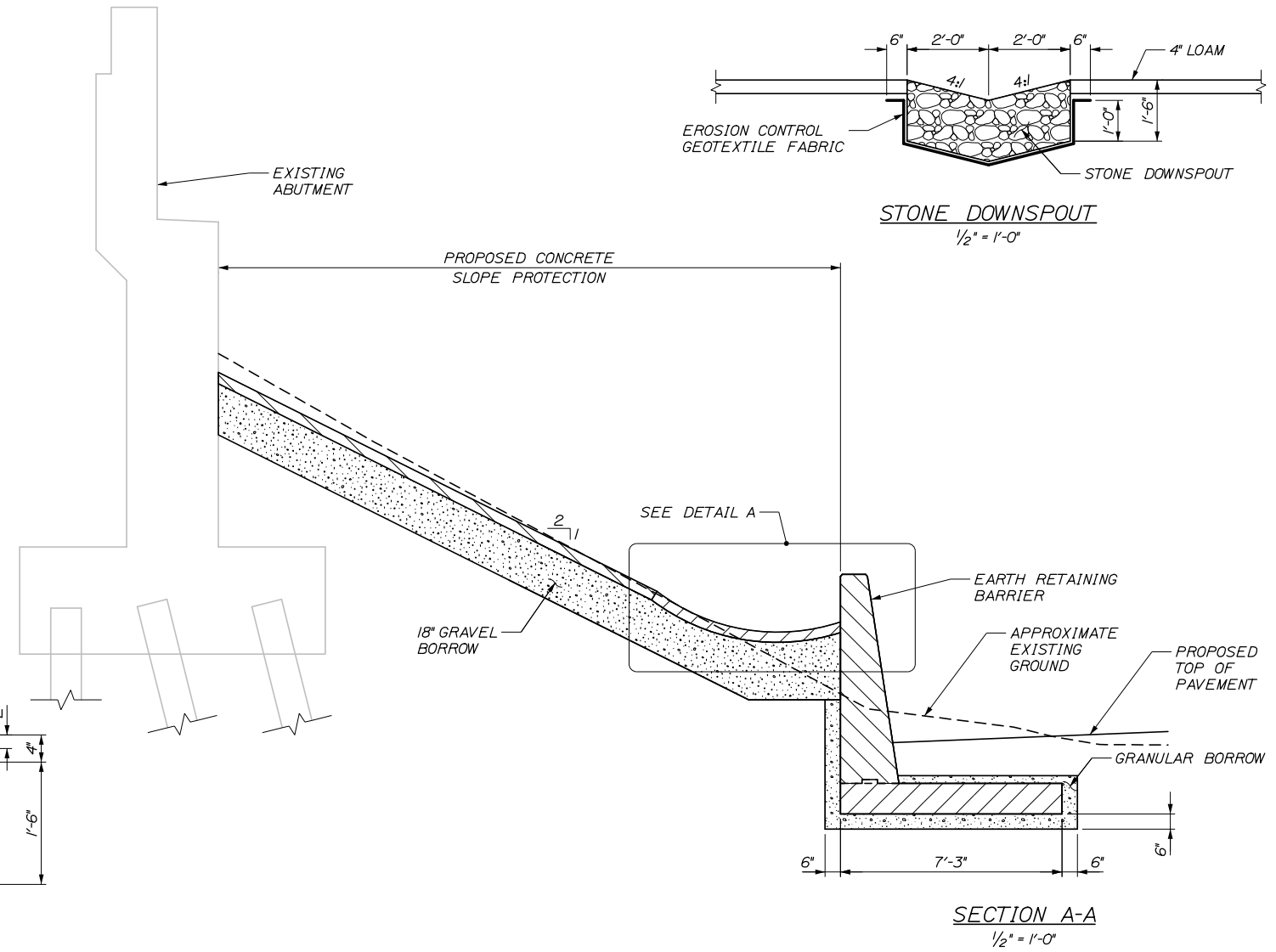
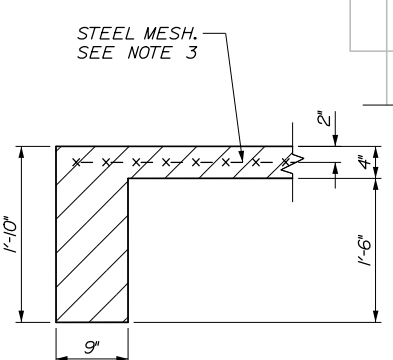
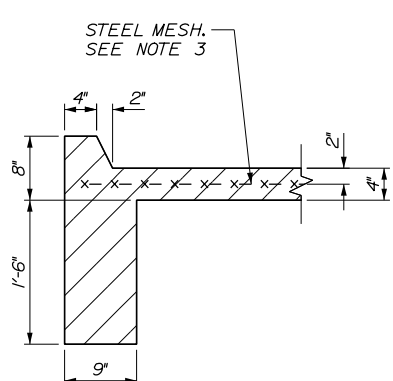
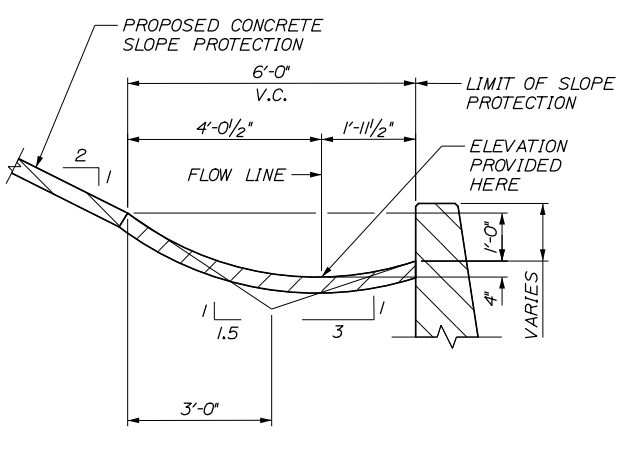


SLOPE PAVEMENT NOTES:

1. PROPOSED 18" GRAVEL BORROW BEDDING MATERIAL SHALL BE CONSIDERED INCIDENTAL TO ITEM 513.09 SLOPE PAVEMENT MODIFICATIONS. GRAVEL BORROW AND GRANULAR BORROW SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCIDENTAL TO THE RELATED CONTRACT ITEMS. EXISTING GRAVEL MATERIALS JUDGED SUITABLE BY THE RESIDENT MAY REMAIN IN PLACE.
2. BREAK BOND AT CONSTRUCTION JOINTS WITH 2 LAYERS OF SMOOTH SURFACED ASPHALT ROLL ROOFING (701.08).
3. CIP SLOPE PROTECTION SHALL BE REINFORCED WITH EPOXY COATED WWF 6"x6" - W2xW2, NOT TO PASS THRU CONSTRUCTION JOINTS.
4. DUMMY JOINTS SHALL BE MADE WITH A GROOVER TO A DEPTH OF 1/4" INCH.
5. EDGES OF CONSTRUCTION JOINTS SHALL BE FINISHED WITH A SIDEWALK EDGING TOOL TO A DEPTH OF 1/4" INCH.
6. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO THE EXPOSED SURFACE AREA OF CONCRETE SLOPE PROTECTION.
7. PIGMENTED PROTECTIVE COATING SHALL BE APPLIED TO ANY NEWLY EXPOSED ABUTMENT AND WINGWALL SURFACES RESULTING FROM THE PROPOSED SLOPE PAVEMENT MODIFICATIONS. PIGMENTED PROTECTIVE COATING SHALL BE INCIDENTAL TO PAY ITEM 513.09.
8. CONSTRUCTION OF STONE DOWNSPOUT TO DRAIN INTO HIGHWAY DITCH SHALL BE INCIDENTAL TO PAY ITEM 513.09.



PLAN - PROPOSED SLOPE PROTECTION MODIFICATIONS
1" = 10'-0"




NOTES:
1. FOR DETAILS OF EARTH RETAINING BARRIER SEE SHEETS BD-16 THRU BD-19.

Scale: AS NOTED			
No.	Revision	By	Date

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	By	Date	
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	By	Date	
	By	Date	

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

SLOPE PROTECTION MODIFICATIONS
PROPOSED LAYOUT - GORHAM ROAD

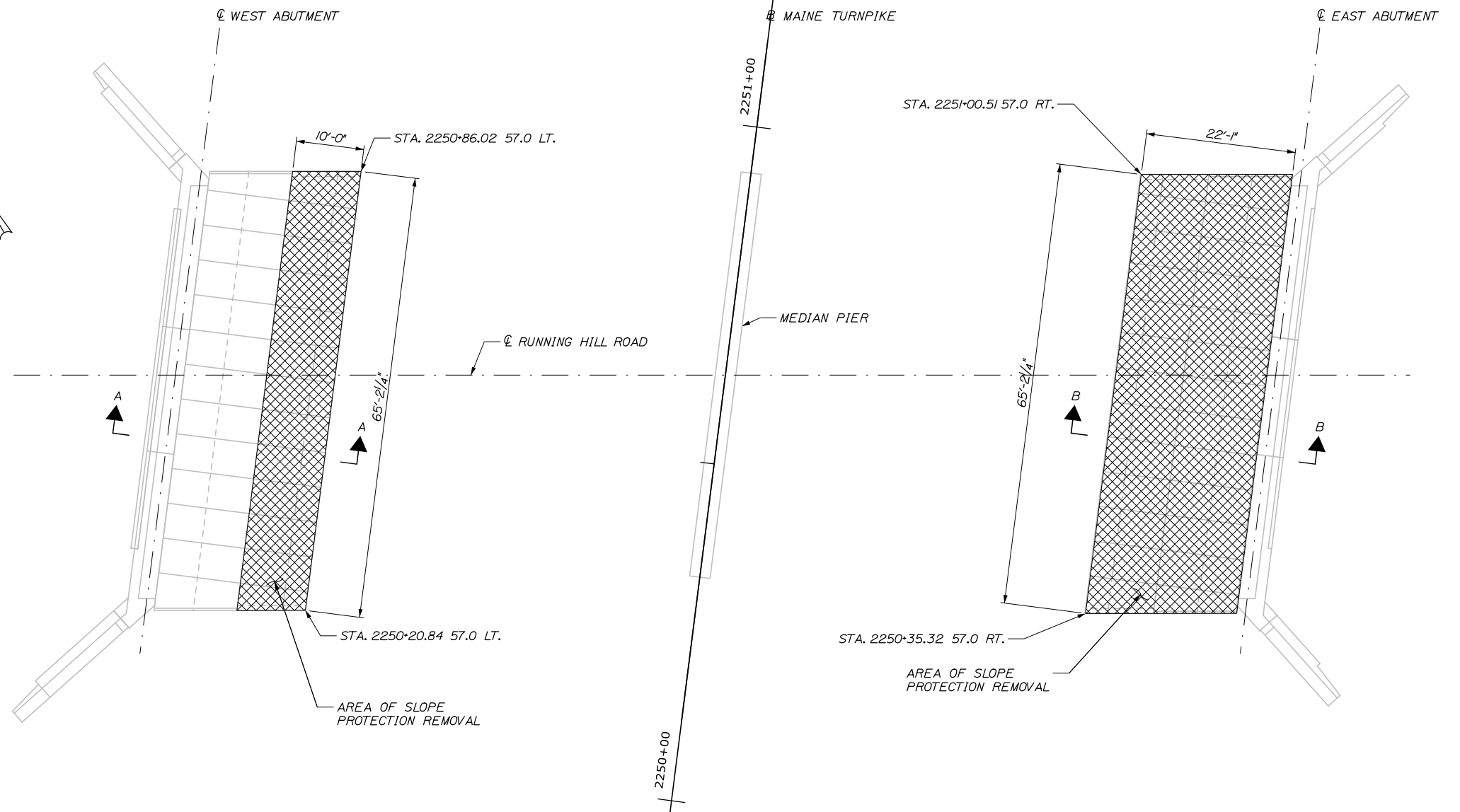
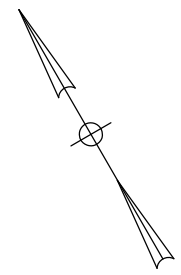
SHEET NUMBER: BD-22
CONTRACT: 2020.03
297 OF 310

Date: 2/25/2020

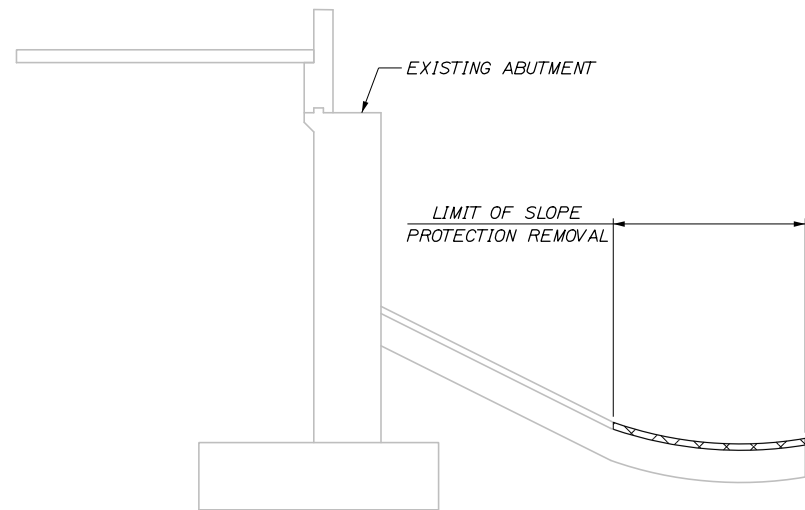
Filename: PAW1_Slope Protection Modifications - Demolition - Running Hill Road

NOTES:

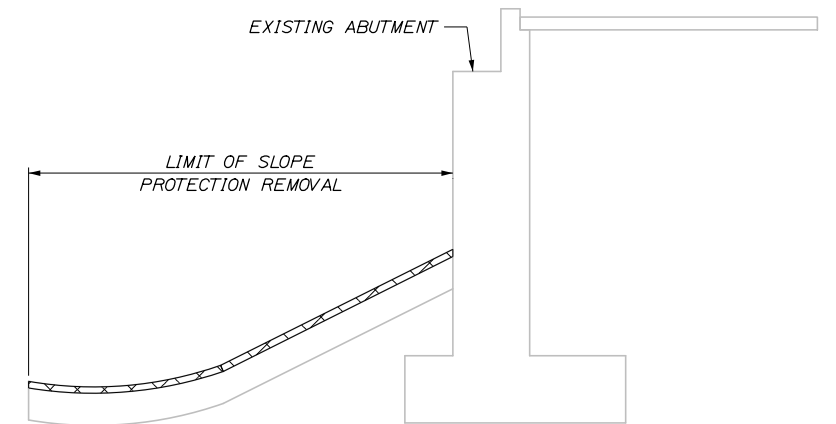
1. REMOVAL OF EXISTING CONCRETE SLOPE PROTECTION PAVEMENT SHALL BE INCIDENTAL TO PAY ITEM 513.09.



PLAN - SLOPE PROTECTION DEMOLITION
1" = 10'-0"



SECTION A-A
1" = 5'-0"



SECTION B-B
1" = 5'-0"

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	By	Date		By	Date
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Drawn	ERB	02\20	In Charge of	RAL	02\20

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Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

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PORTLAND AREA WIDENING &
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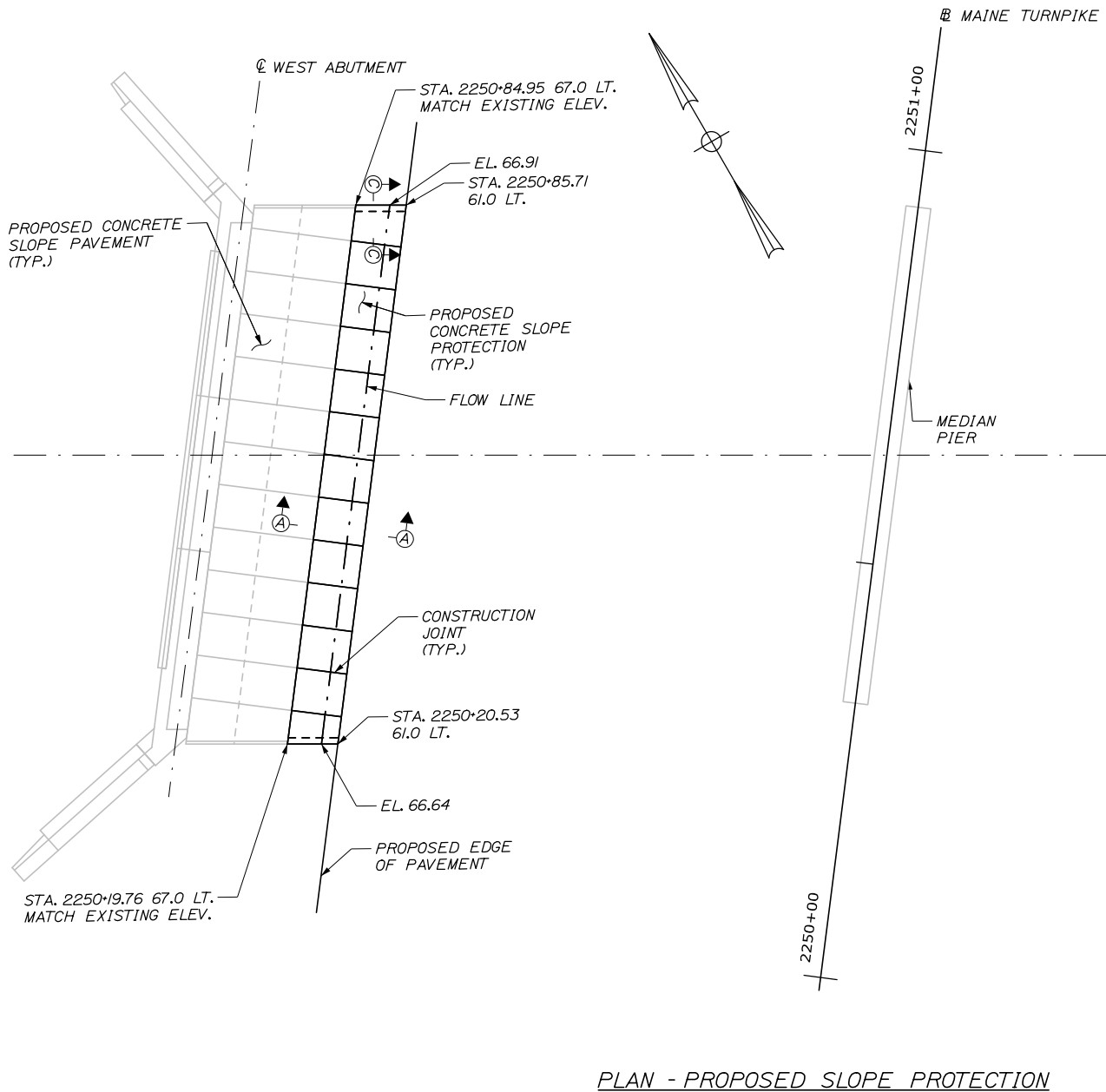
SLOPE PROTECTION MODIFICATIONS
DEMOLITION - RUNNING HILL ROAD

SHEET NUMBER: BD-23
298 OF 310

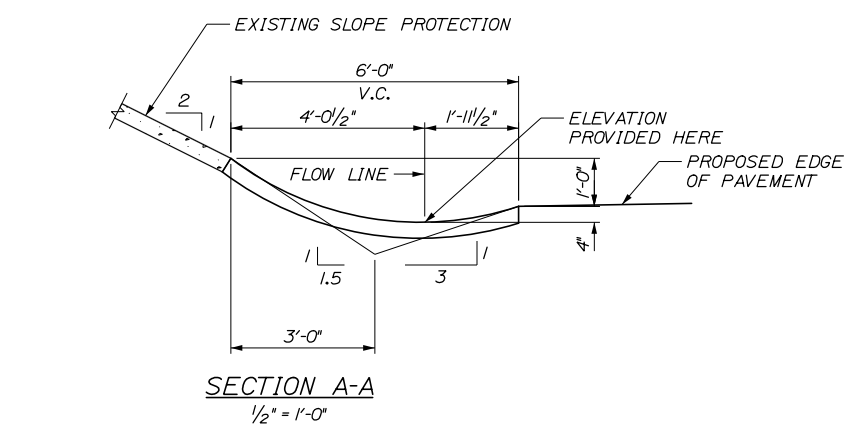
CONTRACT: 2020.03

Date: 2/25/2020

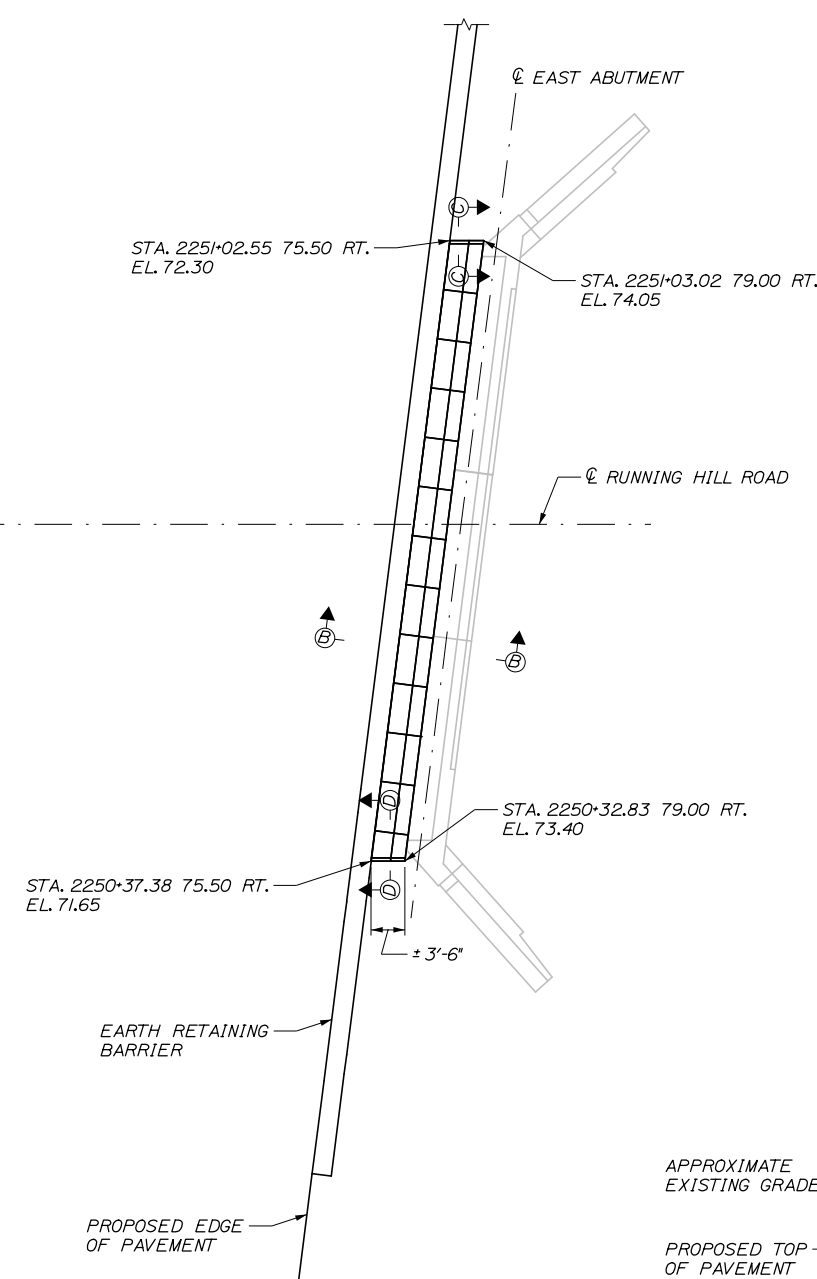
Filename: PAW1_Slope Protection Modifications - Proposed Layout - Running Hill Road



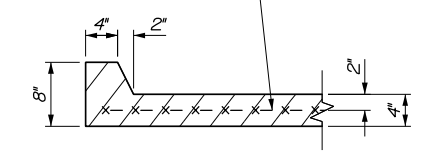
PLAN - PROPOSED SLOPE PROTECTION
1" = 10'-0"



SECTION A-A
1/2" = 1'-0"

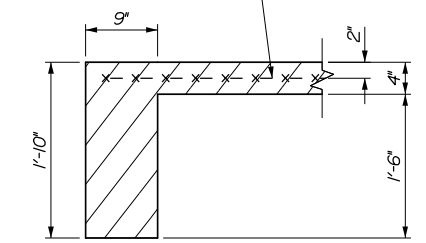


STEEL MESH. SEE SHEET BD-21, NOTE 3

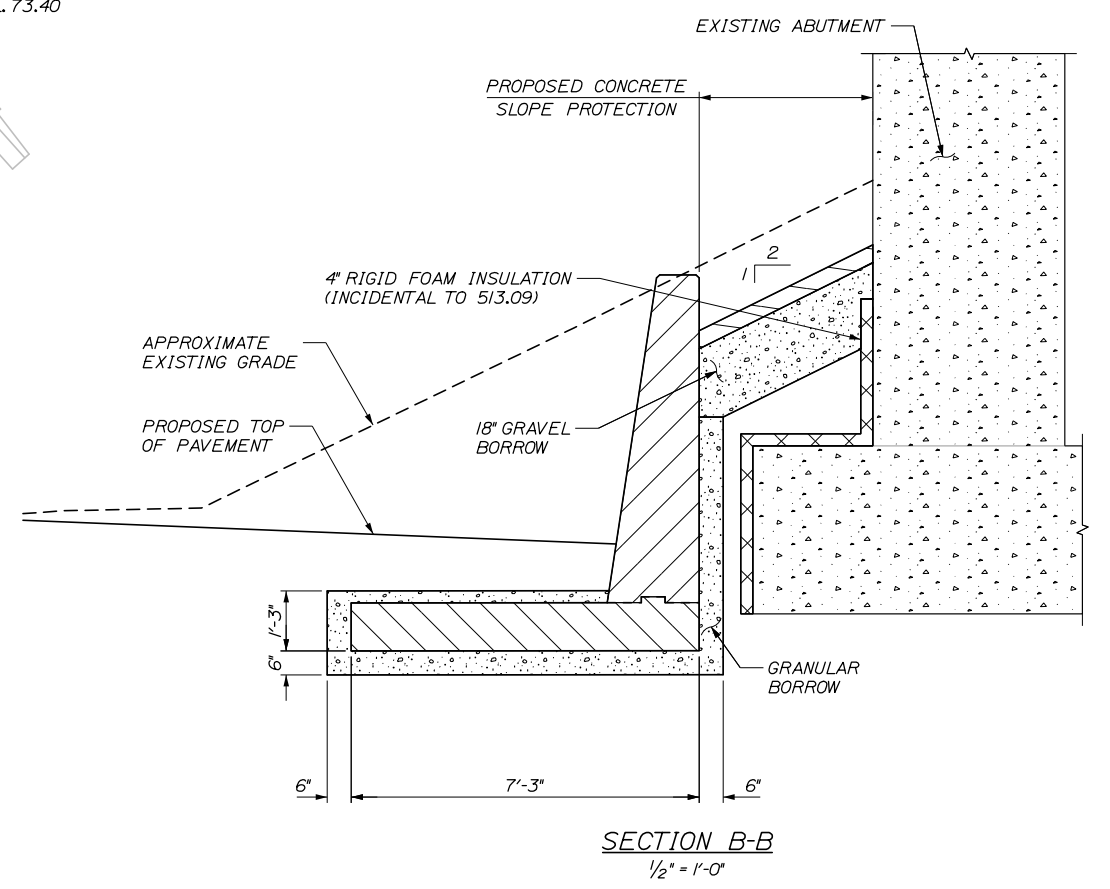


SECTION C-C
1" = 1'-0"

STEEL MESH. SEE SHEET BD-21, NOTE 3



SECTION D-D
1" = 1'-0"




SECTION B-B
1/2" = 1'-0"

Scale:			
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HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
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MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

SLOPE PROTECTION MODIFICATIONS
PROPOSED LAYOUT - RUNNING HILL ROAD

SHEET NUMBER: BD-24
CONTRACT: 2020.03
299 OF 310

Date: 2/25/2020

Filename: PAW1_Variable Signs_GeneralNotes

SIGN STRUCTURE GENERAL NOTES:

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD SPECIFICATIONS 2014 AND STANDARD DETAILS 2014 WITH UPDATES AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, LATEST REVISION, UNLESS OTHERWISE INCLUDED IN THESE PLANS.
2. CONTRACTOR IS REQUIRED TO MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDE ROADS DURING CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
3. A COPY OF THE "GEOTECHNICAL REPORT" DATED FEBRUARY 21, 2020 IS AVAILABLE FOR DOWNLOAD AT MAINETURNPIKE.COM.
4. DUST CONTROL IS INCIDENTAL TO CONTRACT.
5. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
6. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
7. ALL EXCAVATION IS INCIDENTAL TO THE VMS/SOLAR PANEL/CONTROLLER CABINET FOUNDATION ITEMS, OR OHSS FOUNDATION ITEMS.
8. CONTRACTOR SHALL VERIFY ALL SITE INFORMATION PRIOR TO COMMENCING ANY WORK. COORDINATE WORK WITH RESIDENT.
9. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. ACTUAL PLACEMENT OF THE LOAM USED SHALL BE AS DESIGNATED BY THE RESIDENT. LOAM, SEEDING, AND EROSION CONTROL BLANKET SHALL BE PAID FOR UNDER RESPECTIVE PAY ITEMS.
10. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS; 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 BACKSLOPES AND GUARDRAIL FILL SLOPES.
11. MULCH SHALL BE APPLIED IN ALL AREAS SEEDED, MULCH SHALL BE INCIDENTAL TO THE 650 ITEMS.
12. ANY DAMAGE TO THE EXISTING ROADS, SLOPES OR PIPES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT AT THE CONTRACTOR'S EXPENSE.
13. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH MAINE TURNPIKE AND MAINEDEP STANDARDS.
14. SEE SPECIAL DETAILS FOR VARIABLE MESSAGE SIGN VERTICAL TILT, HORIZONTAL SKEW AND HEIGHT REQUIREMENTS.
15. ALL UTILITY SPLICES WILL BE MADE IN THE CABINETS OR JUNCTION BOXES.
16. THE CONTRACTOR IS RESPONSIBLE FOR RUNNING CONDUIT AND POWER LINES FROM THE EXISTING POWER PANEL ADJACENT TO THE SIGN LOCATION TO THE VMS CABINET. THE COMMUNICATION LINES WILL BE RUN BY THE UTILITY, AND THE CONTRACTOR WILL BE RESPONSIBLE FOR RUNNING CONDUIT FROM THE VMS CABINET TO THE COMMUNICATION DEMARK. THIS WORK SHALL BE INCIDENTAL TO RELATED PAY ITEMS.
17. JUNCTION BOXES SHALL BE INSTALLED PER THE PLANS AND SPECIFICATIONS AND AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN STRUCTURE STRUCTURAL GENERAL NOTES:

SPECIFICATIONS

- DESIGN**
 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8th EDITION
 AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1st EDITION (2015)
 AISC MANUAL OF STEEL CONSTRUCTION, LRFD METHOD, 14th EDITION
 ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, 3rd PRINTING (2013)
- CONSTRUCTION**
 STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, NOVEMBER 2014 EDITION
 STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS FOR HIGHWAYS AND BRIDGES, DECEMBER 2014 EDITION WITH UPDATES
 MTA SUPPLEMENTAL SPECIFICATIONS

DESIGN LOADING

- WIND**
 BASIC WIND SPEED (V) = 110 MPH
- ICE**
 NOMINAL ICE THICKNESS (t) = 1.0 INCH

MATERIALS

- CONCRETE**
 ALL STRUCTURAL CONCRETE - CLASS AAA
- REINFORCING STEEL**
 AASHTO M31, GRADE 60, EPOXY COATED
- ANCHOR RODS**
 SHALL MEET THE REQUIREMENTS OF ASTM F1554, GRADE 105.
- STRUCTURAL STEEL**
 STRUCTURAL STEEL TUBING (ROUND HSS) SHALL CONFORM TO ASTM A500, GRADE B
 STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992
 STEEL PIPES SHALL CONFORM TO ASTM A53, GRADE B
 ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A709, GRADE 50
 INTERIOR AND EXTERIOR OF ALL SUPPORT STRUCTURE COMPONENTS SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH AASHTO M111
 U-BOLTS FOR STEEL SUPPORT STRUCTURES SHALL CONFORM TO ASTM A449
 ALL BOLTS SHALL CONFORM TO ASTM A325, TYPE 1
 ALL HARDWARE SHALL BE HOT-DIP GALVANIZED IN CONFORMANCE WITH AASHTO M232 PER MAINEDOT STD. SPECS 719.072

BASIC DESIGN STRESSES

- CONCRETE**
 CLASS AAA - $f'_c = 4,500$ PSI
- REINFORCING STEEL**
 $f_y = 60,000$ PSI
- ANCHOR RODS**
 ASTM F1554, GRADE 105 - $f_y = 105,000$ PSI
- STRUCTURAL STEEL**
 ASTM A500, GRADE B - $f_y = 42,000$ PSI
 ASTM A992 - $f_y = 50,000$ PSI
 ASTM A53, GRADE B - $f_y = 35,000$ PSI
 ASTM A709, GRADE 50 - $f_y = 50,000$ PSI
 ASTM A325, TYPE 1 - $f_t = 120,000$ PSI

UTILITY NOTES:

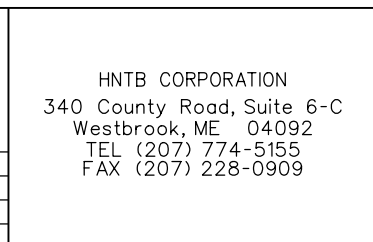
1. SEE UTILITY NOTES ON SHEET GN-01.
2. THE CONTRACTOR SHALL COORDINATE WITH MTA, THROUGH THE RESIDENT, FOR ELECTRICAL SERVICE AND COMMUNICATIONS FOR VMS.
3. ALL CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.

SIGN STRUCTURE CONSTRUCTION NOTES:

1. FOR ADDITIONAL DETAILS REFERENCED OR NOT SHOWN IN THESE DRAWINGS, SEE THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, NOVEMBER 2014 EDITION.
2. ALL REINFORCING STEEL SHALL HAVE 2" COVER UNLESS NOTED OTHERWISE.
3. ALL ENDS OF SHAFTS OPEN TO THE WEATHER SHALL BE FITTED WITH AN APPROPRIATE CAST ALUMINUM OR GALVANIZED CAST IRON CAP SECURED IN PLACE WITH STEEL SET SCREWS CONFORMING TO THE REQUIREMENTS OF ASTM F593 AND SHALL BE CONSIDERED INCIDENTAL TO ITEM 650.101.
4. ALL ANCHOR RODS SHALL BE SWEDGED OR THREADED ON THE EMBEDDED PORTION OF THE ROD.
5. CHAMFER ALL EXPOSED EDGES OF CONCRETE $\frac{3}{4}$ " UNLESS NOTED OTHERWISE.
6. ALL EXPOSED CONCRETE SURFACES SHALL RECEIVE A CLEAR PROTECTIVE COATING IN ACCORDANCE WITH SPECIAL PROVISION 515. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO ITEMS 626.701 AND 645.12.
7. ALL AREAS OF STRUCTURAL EXCAVATION SHALL BE BACKFILLED WITH GRANULAR BORROW CONFORMING TO MAINEDOT STANDARD SPECIFICATION 703.19 FOR UNDERWATER BACKFILL. ALL PAYMENT FOR STRUCTURAL EXCAVATION AND BACKFILL SHALL BE CONSIDERED INCIDENTAL TO ITEMS 626.701 AND 645.12.
8. CONTRACTOR DESIGNED SIGN STRUCTURE SHALL CONFORM TO THE REQUIREMENTS OF STANDARD SPECIFICATION 645.

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NO SCALE				HNTB			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
				By	Date	By	Date
				Designed	BRG 02\20	Checked	JDW 02\20
				Drawn	ERB 02\20	In Charge of	RAL 02\20

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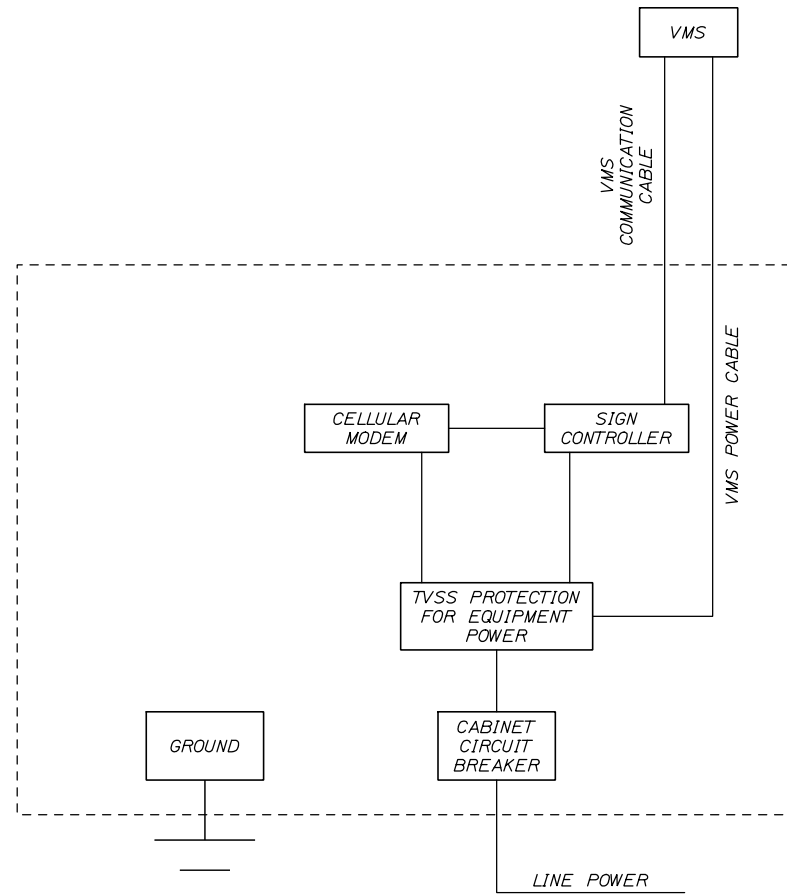
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
VARIABLE MESSAGE SIGNS
GENERAL NOTES

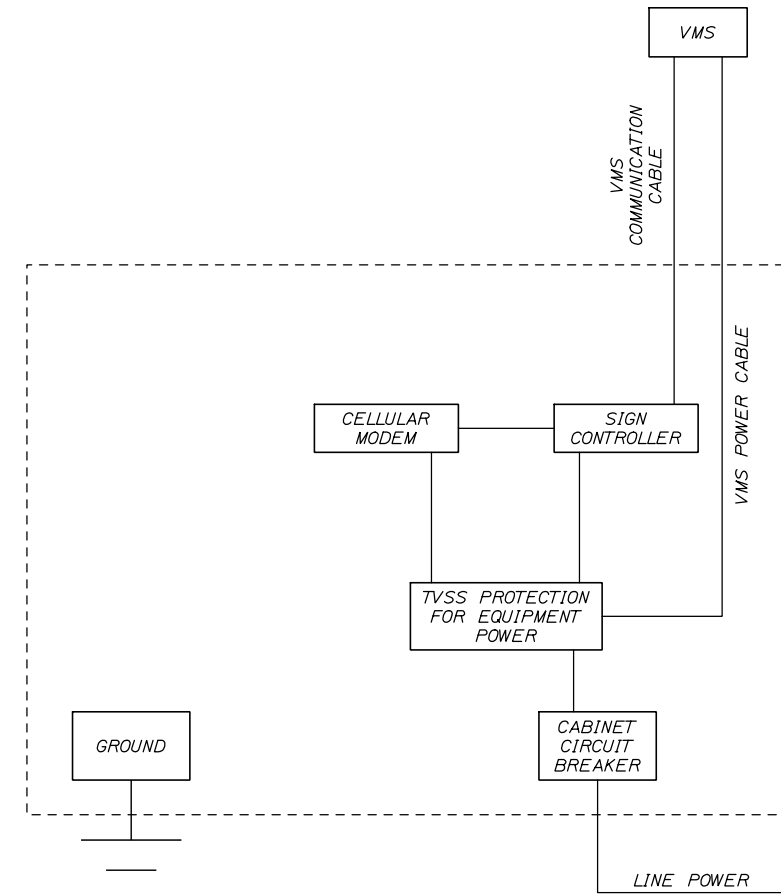
SHEET NUMBER: SS-01
300 OF 310

CONTRACT: 2020.03

Date: 2/25/2020



VMS OHSS CABINET - STA 2133+14
NOT TO SCALE




VMS CABINET - STA 2266+50
NOT TO SCALE

Filename: PAW1_Variable Signs_Wiring Diagram

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TEL (207) 774-5155
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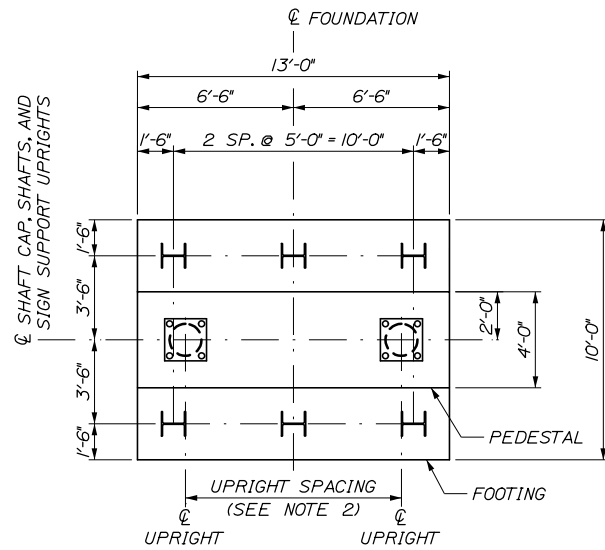
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
VARIABLE MESSAGE SIGNS
WIRING DIAGRAMS

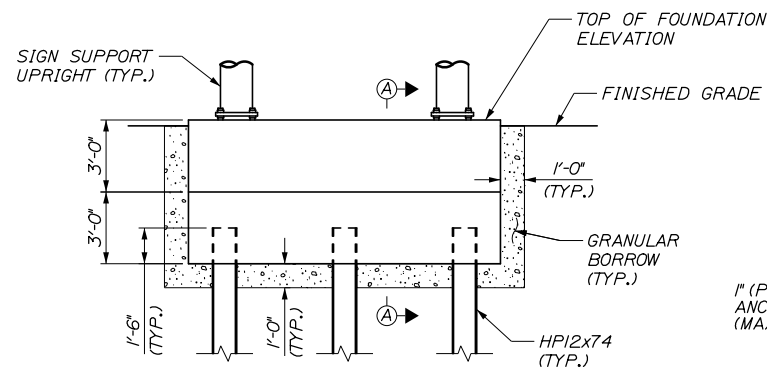
SHEET NUMBER: SS-02
CONTRACT: 2020.03
301 OF 310

Date: 2/25/2020



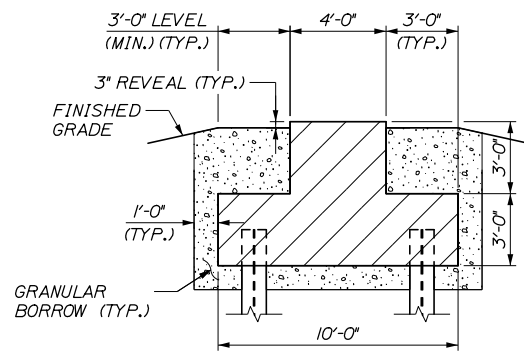
RIGHT SIDE FOUNDATION - MASONRY PLAN

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



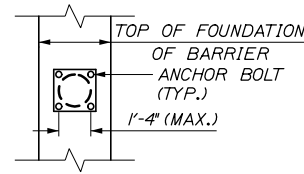
RIGHT SIDE FOUNDATION - MASONRY ELEVATION

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



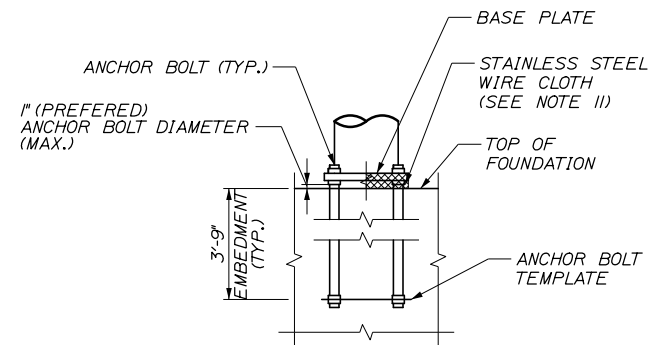
SECTION A-A

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



ASSUMED ANCHOR BOLT PATTERN

(LEFT SIDE (MEDIAN) FOUNDATION SHOWN) NOT TO SCALE



ANCHOR BOLT DETAIL

NOT TO SCALE

ASSUMED OVERHEAD SIGN STRUCTURE DESIGN CRITERIA

1. THESE FOUNDATIONS HAVE BEEN DESIGNED USING THE ASSUMED MAXIMUM TOP OF FOUNDATION LOADS SHOWN IN THE TABLE BELOW. THE LOADS FROM THE OVERHEAD SIGN STRUCTURE SHALL NOT EXCEED THE LOADS SHOWN.
2. THESE FOUNDATIONS HAVE BEEN DESIGNED USING AN ASSUMED OVERHEAD SIGN STRUCTURE UPRIGHT SPACING BETWEEN 6'-0" TO 9'-0". THE OVERHEAD SIGN STRUCTURE SHALL HAVE AN UPRIGHT SPACING BETWEEN 6'-0" TO 9'-0" UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. THESE FOUNDATIONS HAVE BEEN DESIGNED ASSUMING A 4 ANCHOR BOLT PATTERN WITH AN ASSUMED MAXIMUM BOLT SPACING OF 1'-6" AND AN ASSUMED ANCHOR BOLT EMBEDMENT OF 3'-9", AS SHOWN BELOW. THE ANCHOR BOLT SPACING SHALL NOT EXCEED 1'-6", NOR SHALL THE ANCHOR BOLT EMBEDMENT BE LESS THAN 3'-9" AND ANCHOR BOLTS SHALL BE INSTALLED AS SHOWN IN THE ANCHOR BOLT DETAIL.

LOAD TYPE		MAXIMUM TOP OF FOUNDATION LOADS	
		MM 43.18_N	
		LEFT	RIGHT
AXIAL DEAD LOADS		50 K	50 K
HORIZONTAL FORCE	WIND NORMAL TO SIGNS	50 K	50 K
	WIND PARALLEL TO SIGNS	15 K	15 K
OVERTURNING MOMENT	WIND NORMAL TO SIGNS	1400 K-FT	1400 K-FT
	WIND PARALLEL TO SIGNS	450 K-FT	450 K-FT

FOUNDATION NOTES

1. ALL FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH MAINE DOT STANDARD SPECIFICATION 626.
2. OVERHEAD SIGN STRUCTURE AND FOUNDATIONS INCLUDING PILES, COMPLETE AND IN PLACE ACCORDING TO THESE PLANS, SHALL BE PAID UNDER 645.12 ITEM.
3. ALL CONCRETE FOR THE FOOTING, PEDESTAL, AND BARRIER SHALL BE CLASS 'AA' OR 'AAA' CONCRETE (F'C = 4000PSI) AND SHALL CONFORM TO MTA SUPPLEMENTAL SPECIFICATION 502. ALL PORTIONS OF THE FOUNDATION ABOVE FINISH GRADE SHALL BE LIGHT COLORED AND HAVE A SMOOTH UNIFORM SURFACE FREE OF DEFECTS AND IRREGULARITIES. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1-INCH.
4. A CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES, CONFORMING TO SPECIAL PROVISION 515, SHALL BE APPLIED ON ALL CONCRETE SURFACES ABOVE FINISHED GRADE TO 1 FOOT BELOW FINISHED GRADE. COATING SHALL BE INCIDENTAL TO THE 645.12 ITEMS.
5. ALL REINFORCING STEEL SHALL BE AASHTO M31 (ASTM A615) GRADE 60, EPOXY COATED AND SHALL CONFORM TO MAINE DOT STANDARD SPECIFICATION 503. REINFORCING STEEL SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL. REINFORCING STEEL SHALL BE INCIDENTAL TO ITEM 645.023.
6. ALL BACKFILL SHALL BE GRAVEL BORROW MEETING THE REQUIREMENTS OF MAINE DOT STANDARD SPECIFICATION 203 AND SHALL BE INCIDENTAL TO THE 645.12 ITEMS.
7. STRUCTURAL EXCAVATION, BACKFILLING AND COMPACTION SHALL BE IN ACCORDANCE WITH MAINE DOT STANDARD SPECIFICATION 206 AND SHALL BE INCIDENTAL TO THE 645.12 ITEMS.
8. DESIGN OF COFFERDAMS OR SUPPORT OF EXCAVATION IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED FOR APPROVAL. ALL COSTS SHALL BE INCIDENTAL TO THE 645.12 ITEMS.
9. PAYMENT FOR REMOVAL AND RESTORATION OF GRASS AND VEGETATION DISTURBED BY THE CONSTRUCTION OF THE FOUNDATIONS SHALL BE INCIDENTAL TO THE 645.12 ITEMS. RESTORATION OF GRASS AND VEGETATION SHALL BE AS DIRECTED BY THE RESIDENT.
10. THE GAP BETWEEN THE BASE PLATE AND TOP OF FOUNDATION SHALL BE WRAPPED IN AWG #16 STAINLESS STEEL WIRE CLOTH WITH A 1/4" MAXIMUM OPENING AND A 2" LAP. SECURE WITH 3/4" STAINLESS STEEL BANDING AFTER ANCHOR RODS ARE INSTALLED. ALL COSTS SHALL BE INCIDENTAL TO THE 645.12 ITEMS.

PILE NOTES

1. THE CONTRACTOR SHALL PERFORM AND SUBMIT A WAVE EQUATION ANALYSIS FOR REVIEW AND ACCEPTANCE BY THE RESIDENT. THE MAXIMUM ALLOWABLE DRIVING STRESS IS 0.90 TIMES F_y. THE SUBMITTAL ANALYSIS SHALL INCLUDE THE PROPOSED STOPPING CRITERIA BASED ON THE WAVE EQUATION ANALYSIS AND THE PROPOSED DRIVING SYSTEM. THE STOPPING CRITERIA SHALL INCLUDE THE BLOWS PER INCH AND THE NUMBER OF 1-IN. INTERVALS AT WHICH PILE INSTALLATION MAY BE TERMINATED. THE COST OF PERFORMING THE WAVE EQUATION ANALYSIS WILL BE CONSIDERED INCIDENTAL TO PAY ITEM 501.92.
2. THE CONTRACTOR SHALL PERFORM 2 DYNAMIC LOAD TEST(S), ONE AT EACH FOUNDATION, TO CONFIRM THE NOMINAL DRIVING RESISTANCE OF THE PILES. THE DYNAMIC TEST SHALL BE PERFORMED ON THE FIRST PRODUCTION PILE DRIVEN AT EACH FOUNDATION.
3. PILES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION 501 AND PAID FOR UNDER RELATED 501 PAY ITEMS. ESTIMATED PILE LENGTHS INCLUDE 5 FEET PER PILE AS CONTINGENCY TO THE LENGTH OF THE PILES REQUIRED.
4. ALL PILES SHALL BE EQUIPPED WITH A PILE TIP IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 501.048, PREFABRICATED PILE TIPS.
5. ELEVATIONS ARE APPROXIMATE AND ARE PROVIDED FOR REFERENCE ONLY.


PILE DATA										
LOCATION	PILE SIZE	NUMBER OF PILES	FACTORED GEOTECHNICAL RESISTANCE (KIPS)		NOMINAL GEOTECHNICAL RESISTANCE (KIPS)		MINIMUM PILE TIP ELEVATION	ESTIMATED PILE TIP ELEVATION	ESTIMATED PILE LENGTH (FT)	NOMINAL DRIVING RESISTANCE (KIPS)
			COMPRESSION	UPLIFT	COMPRESSION	UPLIFT				
RIGHT SIDE FOUNDATION	HP 12x74	6	135	52	135	65	-63	-68	110	135
LEFT (MEDIAN) SIDE FOUNDATION	HP 12x74	10	135	52	135	65	-63	-68	110	135

Filename: PAW1_Overhead Sign Structures Foundations Details I

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
	BRG	02\20	
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	In Charge of		
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HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
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**THE GOLD STAR
MEMORIAL HIGHWAY**

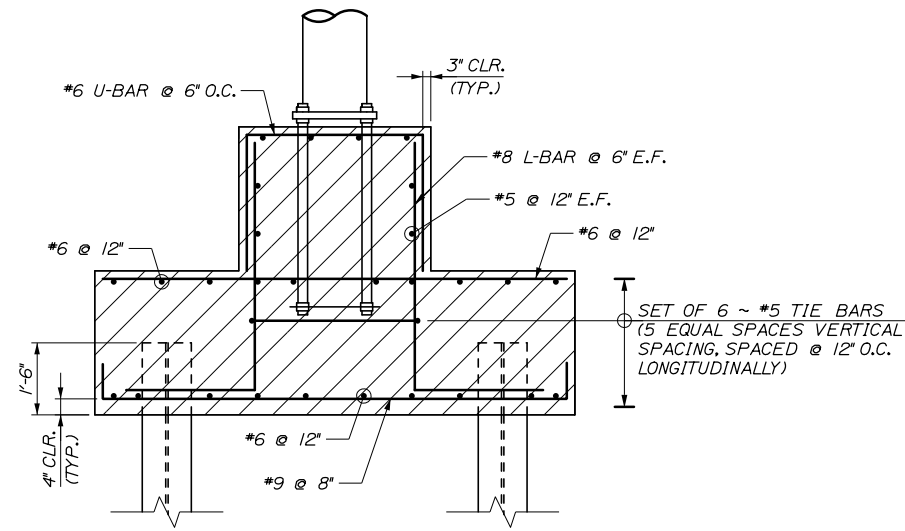
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

OVERHEAD SIGN STRUCTURE FOUNDATION I
STA. 2133+14.00 SOUTHBOUND

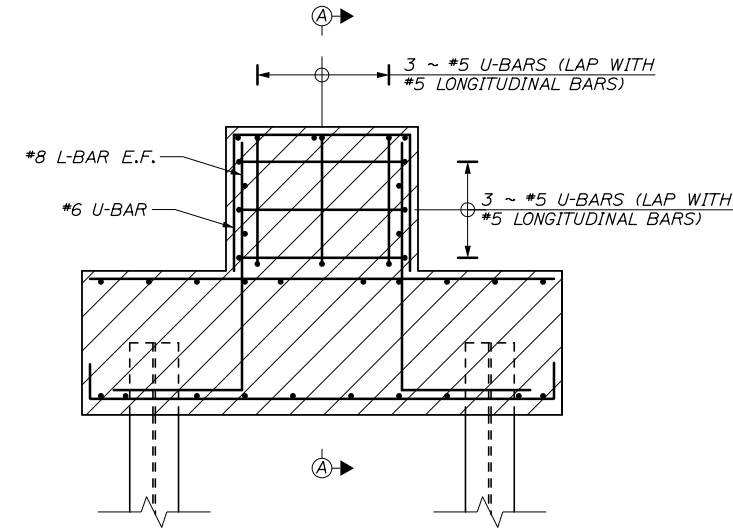
SHEET NUMBER: SS-04
CONTRACT: 2020.03
303 OF 310

Date: 2/25/2020



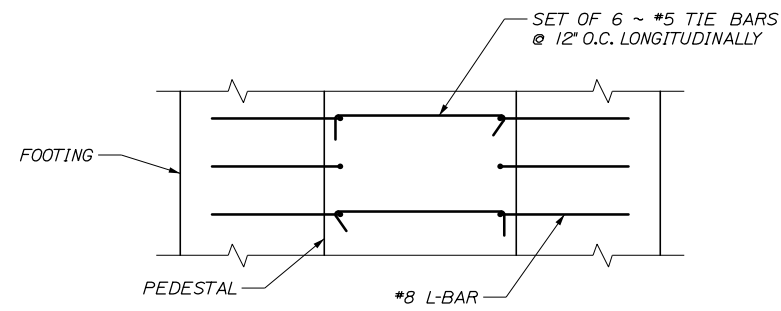
RIGHT SIDE FOUNDATION REINFORCING SECTION

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



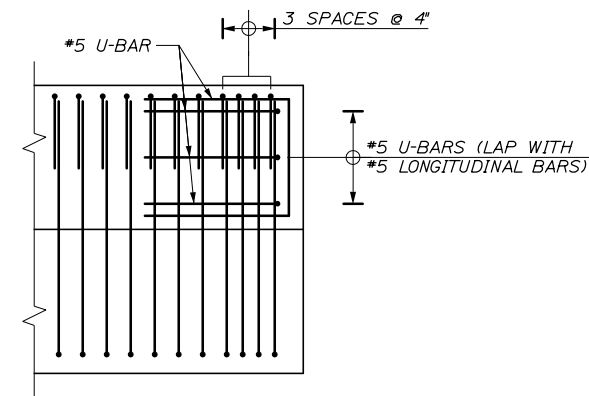
END SECTION

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



TIE BAR DETAIL

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



SECTION A-A

(LONGITUDINAL REINFORCEMENT NOT SHOWN FOR CLARITY)
SCALE = 1/2" = 1'-0"

NOTES

1. SEE OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS I SHEET FOR TYPICAL FOUNDATION NOTES.
2. SEE OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS V SHEET FOR LEFT (MEDIAN) SIDE FOUNDATION REBAR BEND DIAGRAM AND BARRIER CONNECTION DETAILS.
3. ADJUST LONGITUDINAL REINFORCING IN SHAFT CAP TO AVOID ANCHOR BOLTS AND SHAFT REINFORCING.

Filename: PAW1_Overhead Sign Structures Foundations Details II

Scale:				AS NOTED			
No.	Revision	By	Date				

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.					
	By	Date	Checked	By	Date
Designed	BRG	02\20	JDW	02\20	
Drawn	PEB	02\20	In Charge of	RAL	02\20

HNTB CORPORATION
340 County Road, Suite 6-C
Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909

**THE GOLD STAR
MEMORIAL HIGHWAY**

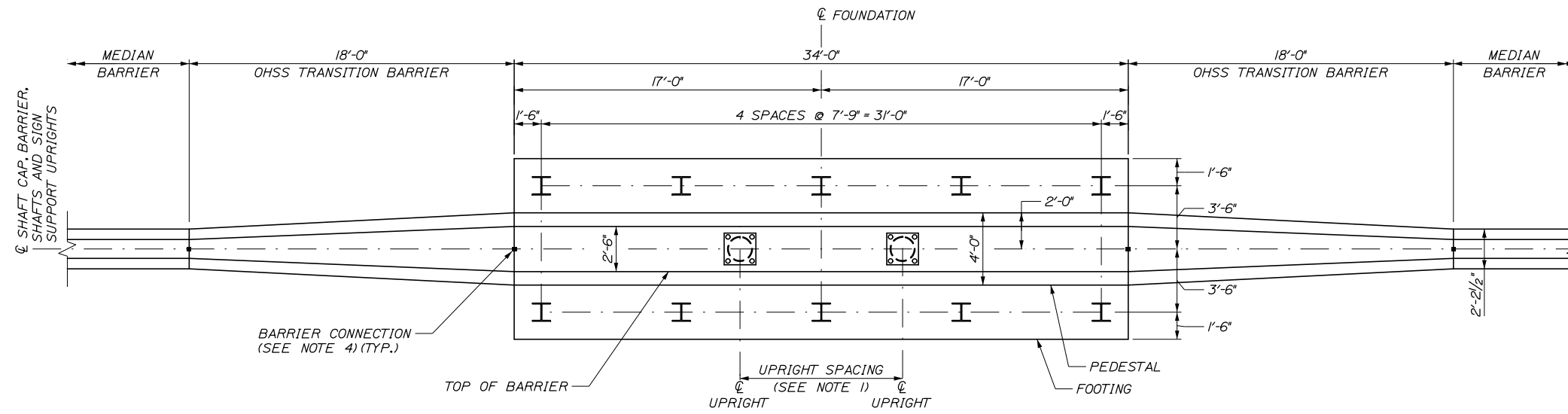
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

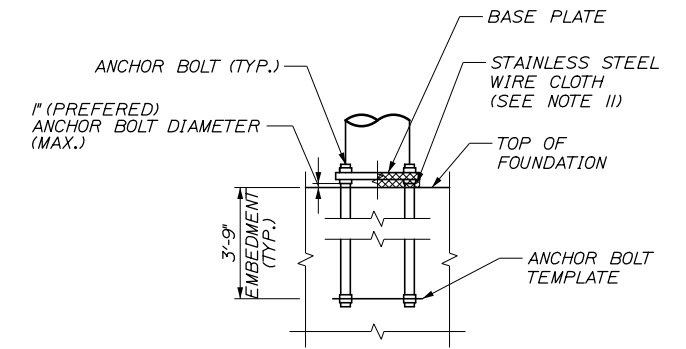
OVERHEAD SIGN STRUCTURE FOUNDATION II
STA. 2133+14.00 SOUTHBOUND

SHEET NUMBER: SS-05
CONTRACT: 2020.03
304 OF 310

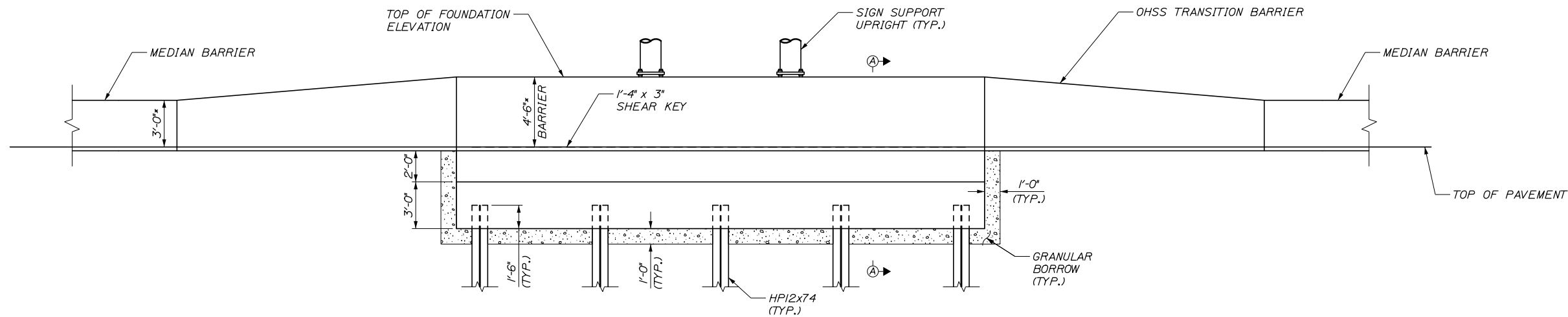
Date: 2/25/2020



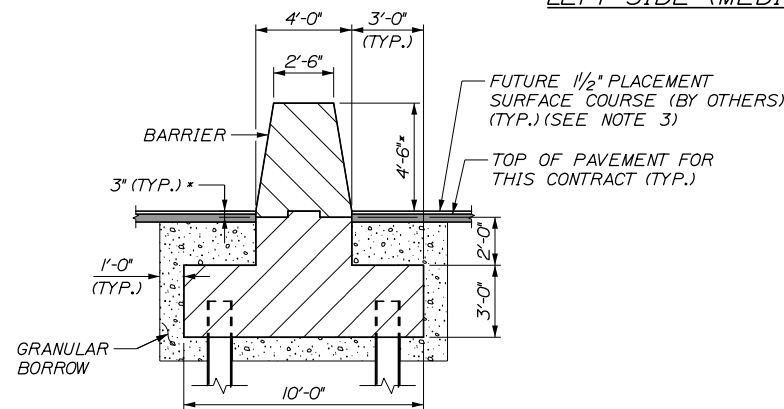
LEFT SIDE (MEDIAN) FOUNDATION - MASONRY PLAN
SCALE: 1/4" = 1'-0"



ANCHOR BOLT DETAIL
NOT TO SCALE



LEFT SIDE (MEDIAN) FOUNDATION - MASONRY ELEVATION
SCALE: 1/4" = 1'-0"



SECTION A-A
SCALE: 1/4" = 1'-0"
* MEASURED FROM TOP OF FUTURE 1/2" PAVEMENT SURFACE COURSE, PLACED BY OTHERS.

FOUNDATION NOTES


1. SEE OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS I SHEET FOR TYPICAL FOUNDATION NOTES AND ASSUMED OVERHEAD SIGN STRUCTURE DESIGN CRITERIA.
2. SEE BARRIER DETAILS SHEET BD-14 FOR TRANSITION BARRIER DETAILS AND NOTES.
3. SEE HIGHWAY CROSS SECTIONS FOR FINAL GRADE TREATMENT IN MEDIAN AROUND FOUNDATION.
4. SEE BARRIER DETAILS SHEET BD-8 FOR BARRIER CONNECTION DETAIL.
5. FOR PILE DATA AND NOTES SEE SHEET SS-04.

Filename: PAW1_Overhead Sign Structures Foundations Details III

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
	BRG	02\20	
	Checked	JDW	02\20
	By	Date	
	Drawn	PEB	02\20
	In Charge of	RAL	02\20

HNTB CORPORATION
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Westbrook, ME 04092
TEL (207) 774-5155
FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

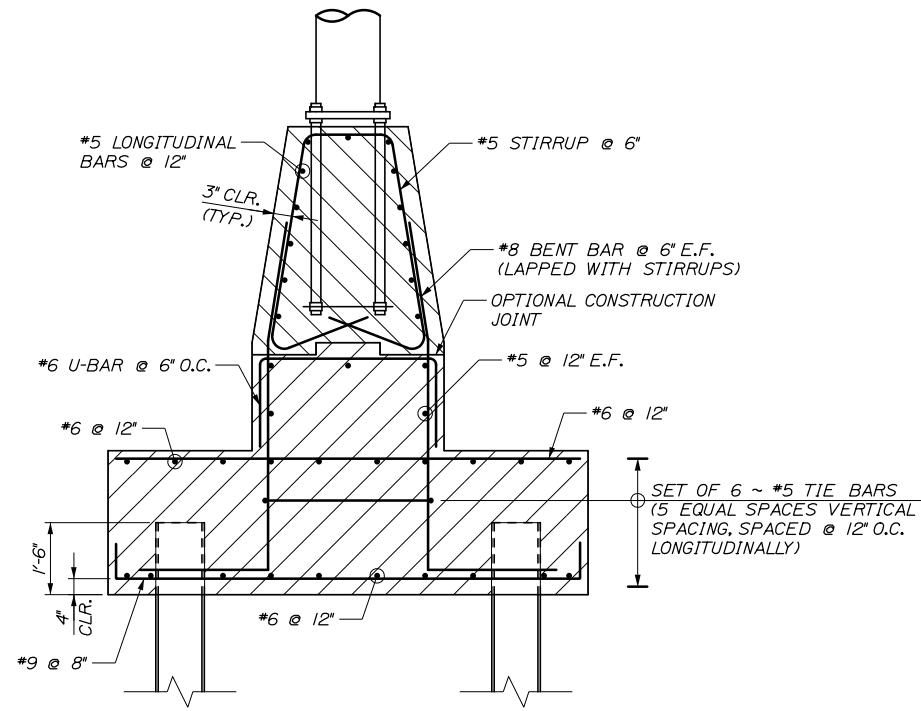
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS
OVERHEAD SIGN STRUCTURE FOUNDATION III
STA. 2133+14.00 SOUTHBOUND

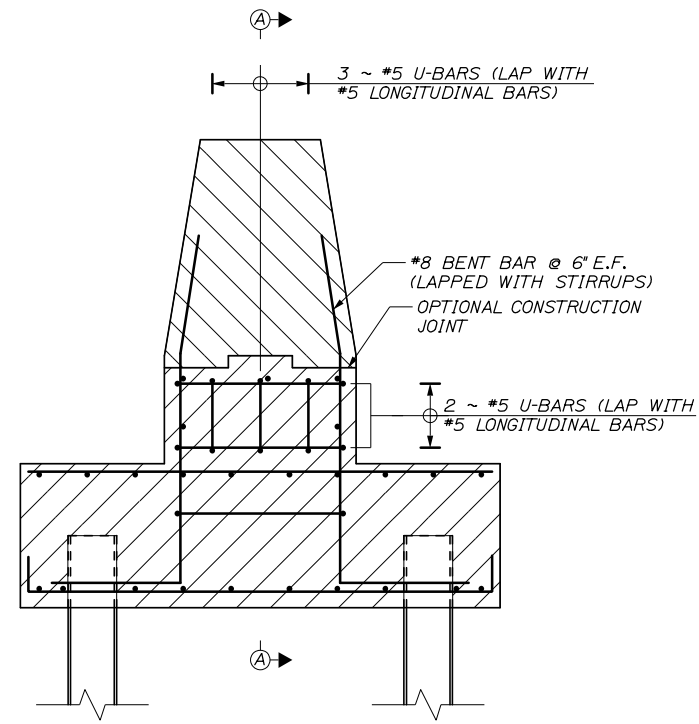
SHEET NUMBER: SS-06
305 OF 310

CONTRACT: 2020.03

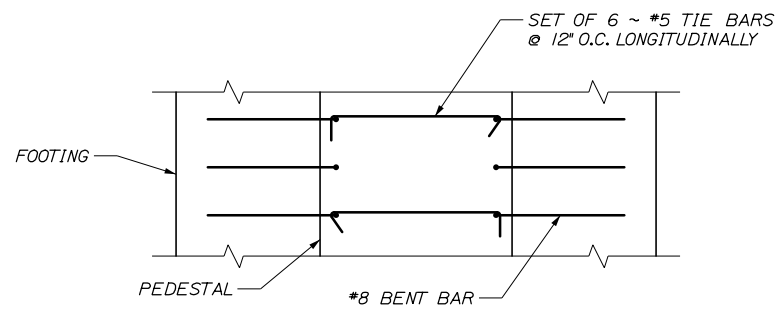
Date: 2/25/2020



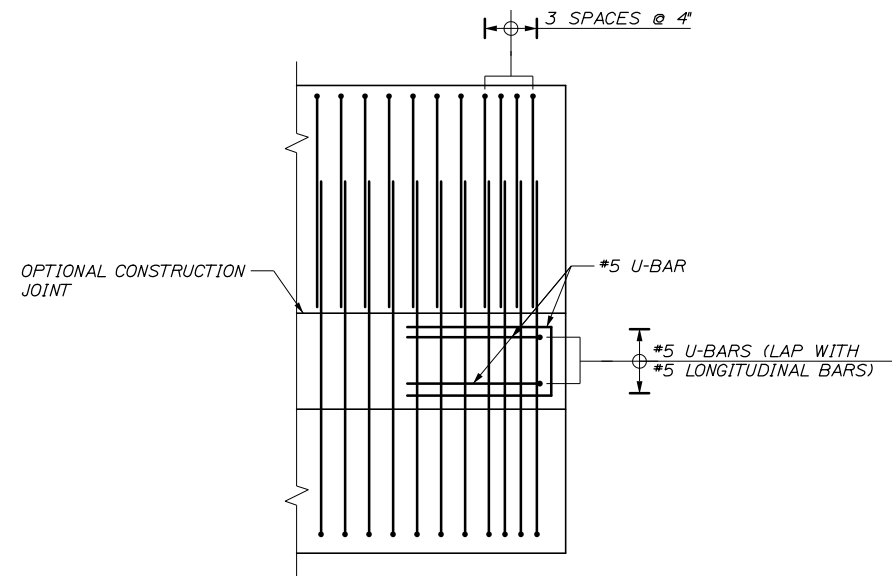
LEFT SIDE FOUNDATION REINFORCING SECTION
SCALE = 1/2" = 1'-0"



END SECTION
(BARRIER REINFORCING NOT SHOWN FOR CLARITY)
SCALE = 1/2" = 1'-0"



TIE BAR DETAIL
SCALE = 1/2" = 1'-0"



SECTION A-A
(LONGITUDINAL REINFORCEMENT NOT SHOWN FOR CLARITY)
SCALE = 1/2" = 1'-0"

NOTES:

- SEE OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS I SHEET FOR TYPICAL FOUNDATION NOTES.
- SEE OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS V SHEET FOR LEFT (MEDIAN) SIDE FOUNDATION REBAR BEND DIAGRAM AND BARRIER CONNECTION DETAILS.
- ADJUST LONGITUDINAL REINFORCING IN SHAFT CAP TO AVOID ANCHOR BOLTS AND SHAFT REINFORCING.

Filename: PAW1_Overhead Sign Structures Foundations Details IV

Scale:				Designed by:			
AS NOTED							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
				By	Date	By	Date
				Designed	BRG 02\20	Checked	JDW 02\20
				Drawn	PEB 02\20	In Charge of	RAL 02\20

HNTB CORPORATION			
340 County Road, Suite 6-C			
Westbrook, ME 04092			
TEL (207) 774-5155			
FAX (207) 228-0909			

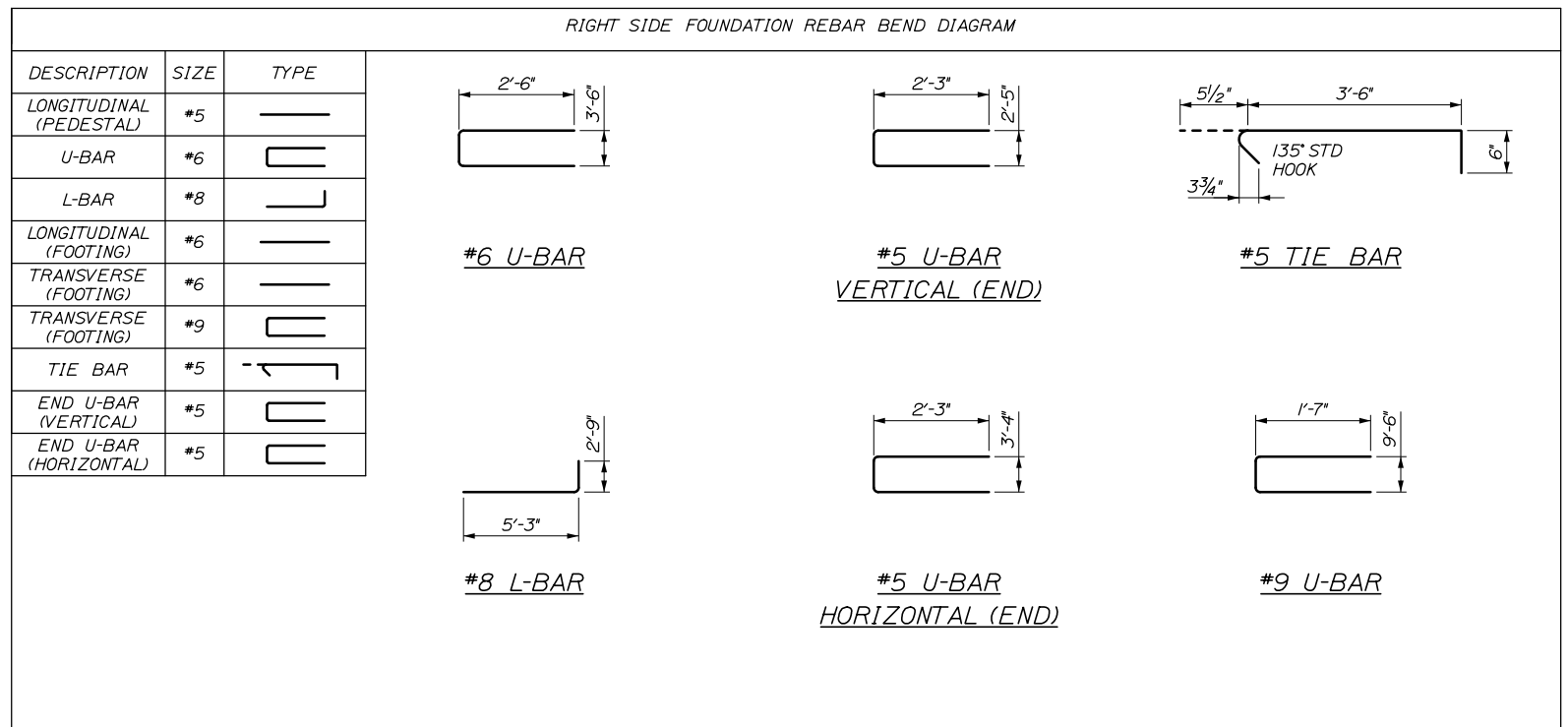
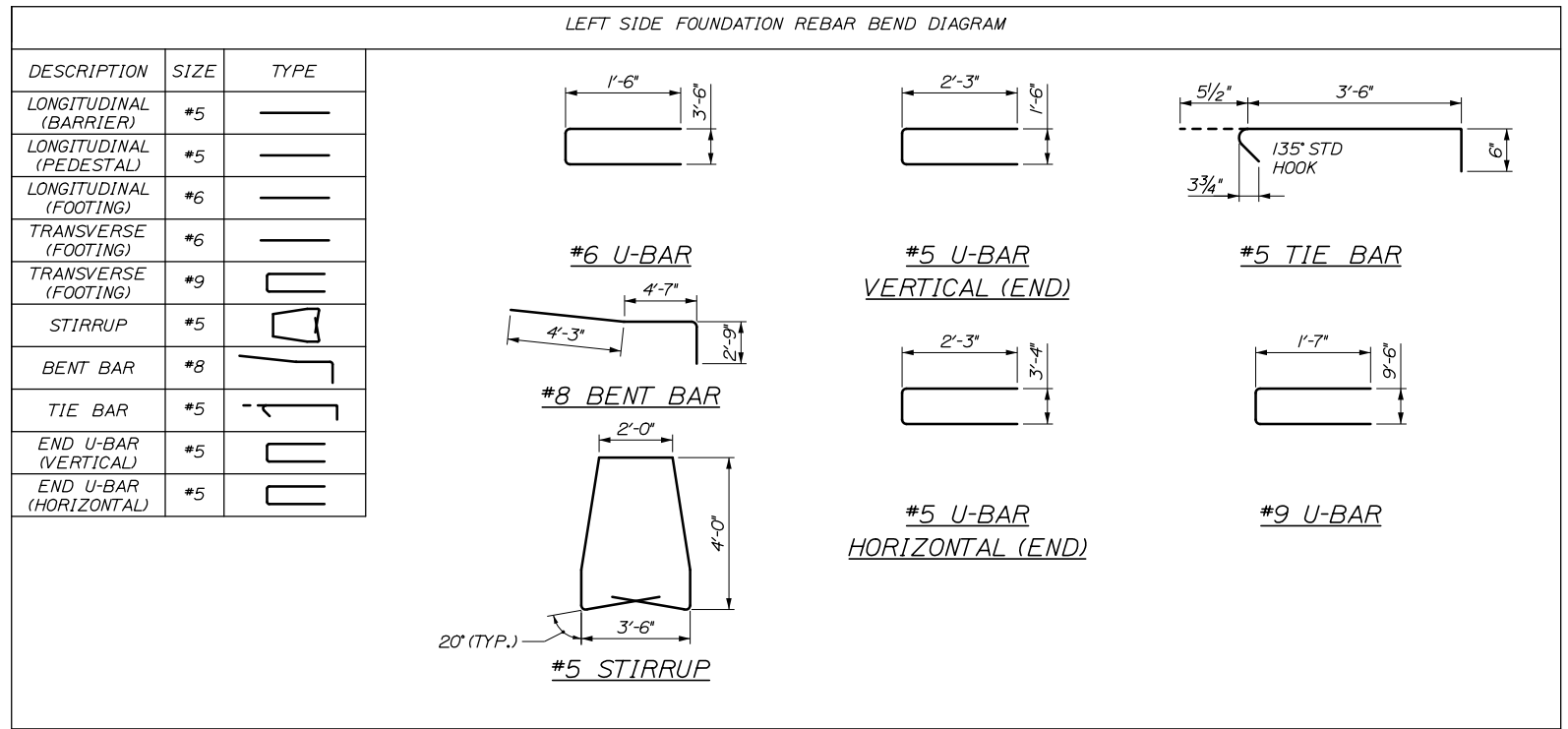
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS
OVERHEAD SIGN STRUCTURE FOUNDATION IV
STA. 2133+14.00 SOUTHBOUND
SHEET NUMBER: SS-07
CONTRACT: 2020.03
306 OF 310

NOTES

- SEE OVERHEAD SIGN STRUCTURE FOUNDATION DETAILS I FOR TYPICAL FOUNDATION NOTES.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL REQUIRED DIMENSIONS AND QUANTITY OF EACH BAR.
- ALL BAR BENDS AND DIMENSIONS SHALL BE PER CONCRETE REINFORCING STEEL INSTITUTE (CRSI) STANDARDS AND AS SHOWN IN THESE PLANS.

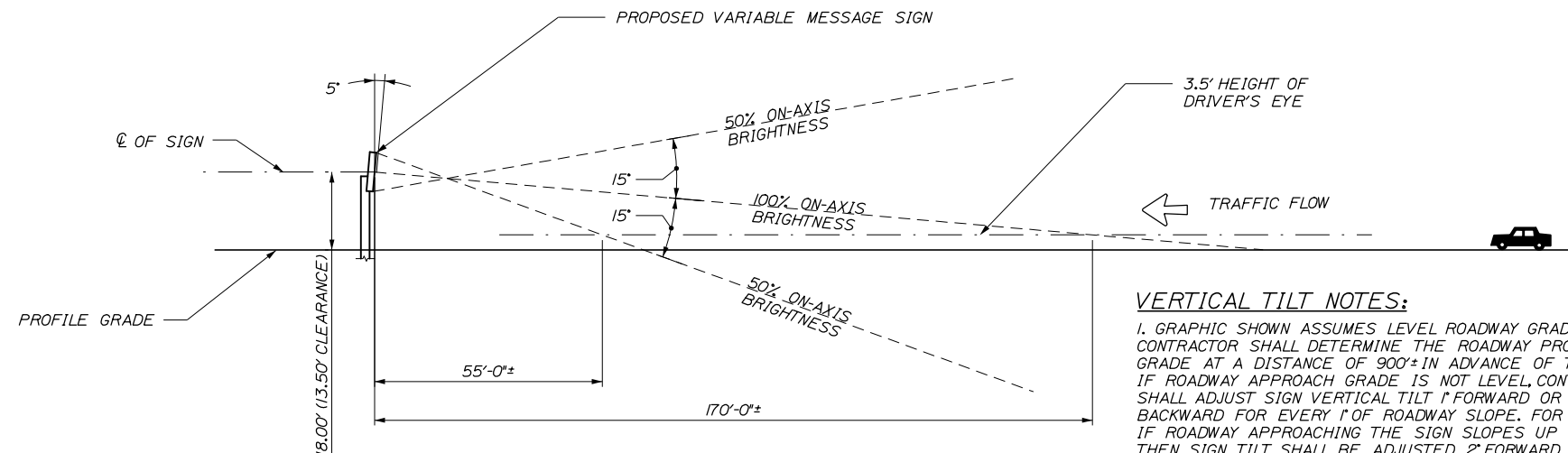


Date: 2/25/2020

Filename: PAW1_Overhead Sign Structures Foundations Details V

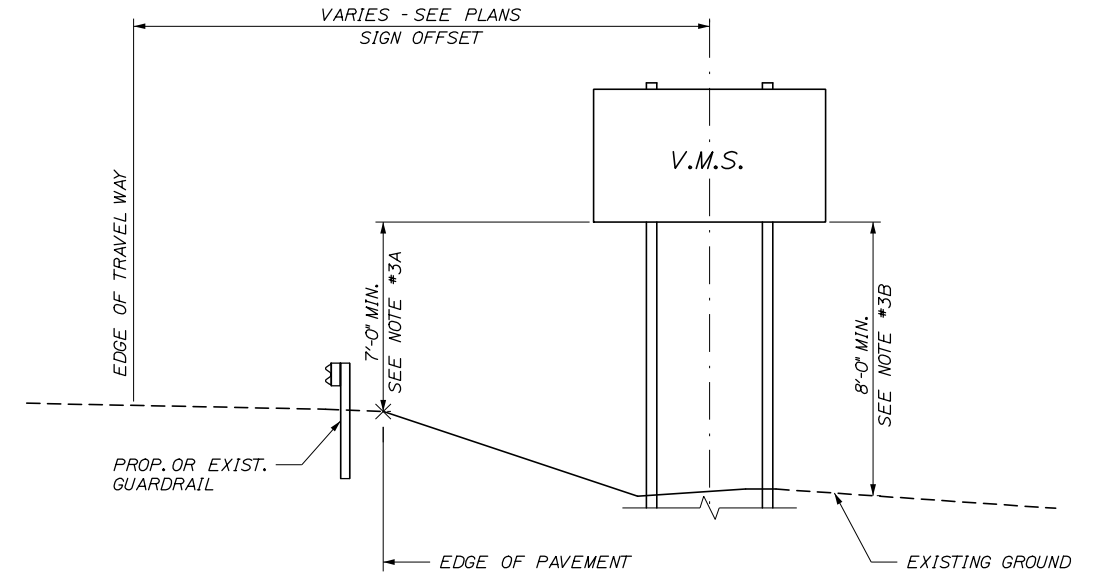
Scale: AS NOTED		Designed by:				HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		THE GOLD STAR MEMORIAL HIGHWAY		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS OVERHEAD SIGN STRUCTURE FOUNDATION V STA. 2133+14.00 SOUTHBOUND																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date									CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>BRG 02\20</td> <td>Checked</td> <td>JDW 02\20</td> </tr> <tr> <td>Drawn</td> <td>PEB 02\20</td> <td>In Charge of</td> <td>RAL 02\20</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	BRG 02\20	Checked	JDW 02\20	Drawn	PEB 02\20	In Charge of	RAL 02\20	MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE		CONTRACT: 2020.03		SHEET NUMBER: SS-08 307 OF 310	
No.	Revision	By	Date																																
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Designed	BRG 02\20	Checked	JDW 02\20																																
Drawn	PEB 02\20	In Charge of	RAL 02\20																																

Date: 2/25/2020



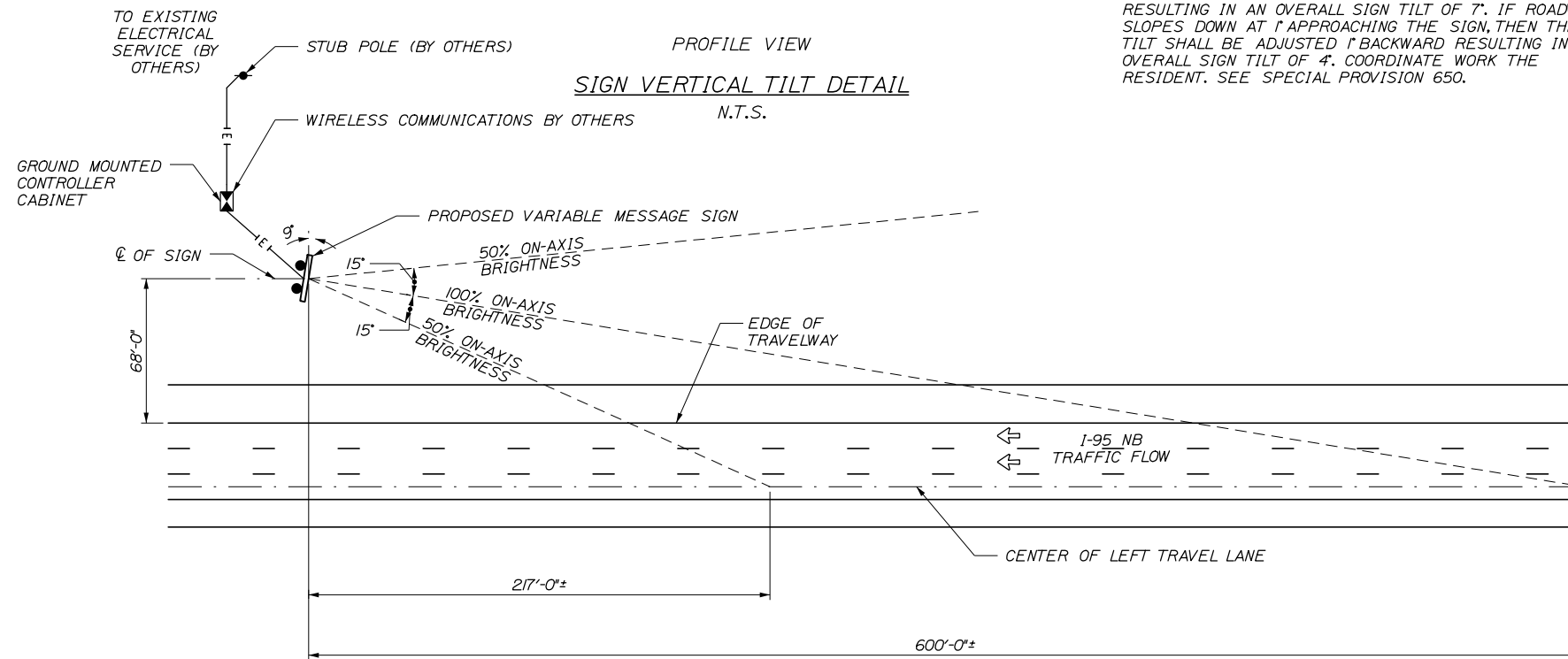
VERTICAL TILT NOTES:

1. GRAPHIC SHOWN ASSUMES LEVEL ROADWAY GRADE. CONTRACTOR SHALL DETERMINE THE ROADWAY PROFILE GRADE AT A DISTANCE OF 900'± IN ADVANCE OF THE SIGN. IF ROADWAY APPROACH GRADE IS NOT LEVEL, CONTRACTOR SHALL ADJUST SIGN VERTICAL TILT 1' FORWARD OR BACKWARD FOR EVERY 1' OF ROADWAY SLOPE. FOR EXAMPLE, IF ROADWAY APPROACHING THE SIGN SLOPES UP AT 2', THEN SIGN TILT SHALL BE ADJUSTED 2' FORWARD RESULTING IN AN OVERALL SIGN TILT OF 7'. IF ROADWAY SLOPES DOWN AT 1' APPROACHING THE SIGN, THEN THE SIGN TILT SHALL BE ADJUSTED 1' BACKWARD RESULTING IN AN OVERALL SIGN TILT OF 4'. COORDINATE WORK THE RESIDENT. SEE SPECIAL PROVISION 650.



SIGN HEIGHT DETAIL

N.T.S.

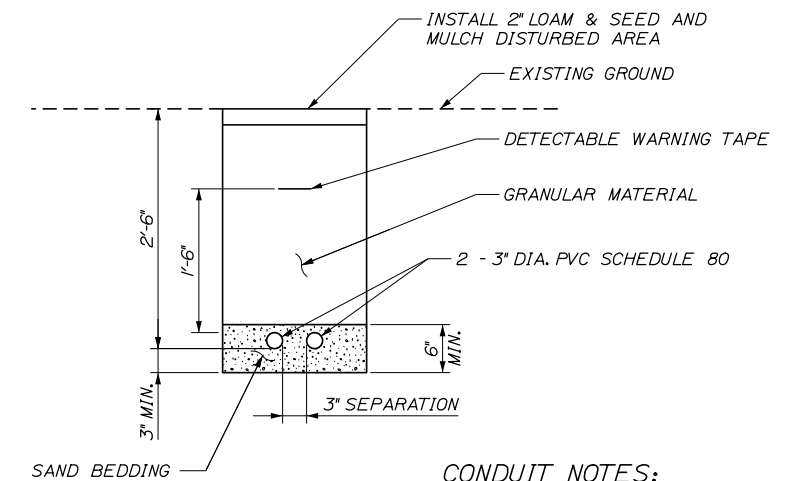


SIGN HORIZONTAL SKEW DETAIL (STA. 2266+50)

N.T.S.

GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECT ORIENTATION OF THE SIGN. THE CONE OF VISION CRITERIA FOR PLACEMENT OF THE SIGN IS DIAGRAMMATIC. CONTRACTOR SHALL VERIFY SITE CONDITION AND CORRECT HEIGHT OF THE SIGN. CALCULATION CERTIFYING THAT THE OPTIMUM VIEWING OF THE SIGNS IS ACHIEVED, AT DISTANCES DEFINED IN THESE DETAILS, SHALL BE SUBMITTED TO THE RESIDENT FOR APPROVAL PRIOR TO INSTALLATION OF THE SIGN.
- THE SIGN HEIGHT SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL GATHER EXISTING GROUND TOPOGRAPHY NECESSARY TO DETERMINE THE CROSS SECTION AT EACH SIGN LOCATION.
- CONTRACTOR SHALL DETERMINE SIGN HEIGHT BASED ON THE FOLLOWING CRITERIA AND FIELD CONDITIONS.
 - 7' MIN. VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE EDGE OF PAVEMENT SHALL BE PROVIDED TO MEET SIGN HEIGHT REQUIREMENTS.
 - 8' MIN. VERTICAL DISTANCE BETWEEN THE BOTTOM OF THE SIGN AND THE GROUND SHALL BE PROVIDED TO DISCOURAGE VANDALISM.
- CONTRACTOR SHALL VERIFY PROPOSED SIGN HEIGHTS WITH RESIDENT FOR CONFORMANCE TO DESIGN CRITERIA. APPROVALS REQUIRED BEFORE ORDERING SIGN SUPPORT AND SIGN FOUNDATION MATERIALS. COORDINATE WORK WITH RESIDENT. PAYMENT FOR WORK SHALL BE INCIDENTAL TO PAY ITEM 650.101. SEE SPECIAL PROVISION SECTION 650.



CONDUIT DETAIL

N.T.S.

CONDUIT NOTES:

- PAYMENT FOR CONDUIT SHALL BE UNDER ITEM 626.22 NON-METALLIC CONDUIT.
- ALL LABOR, EQUIPMENT AND MATERIALS INCLUDING EXCAVATION, AND BACKFILL SHALL BE PAID FOR UNDER ITEM 626.22.
- THREE INCH PVC SCHEDULE 80 CONDUITS REQUIRED FOR ALL NON-METALLIC CONDUIT.

Filename: PAW1_Variable Signs_Details

Scale:				Designed by:			
NO SCALE							
No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
				By	Date	By	Date
				Designed	BRG 02\20	Checked	JDW 02\20
				Drawn	ERB 02\20	In Charge of	RAL 02\20

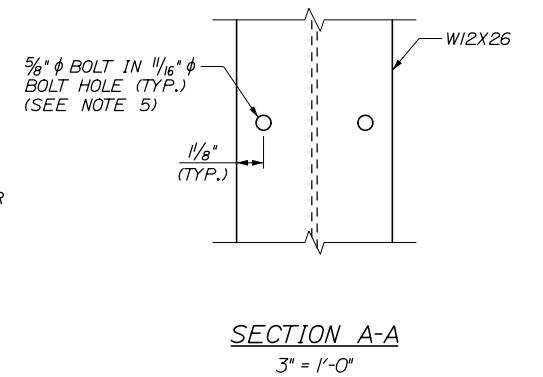
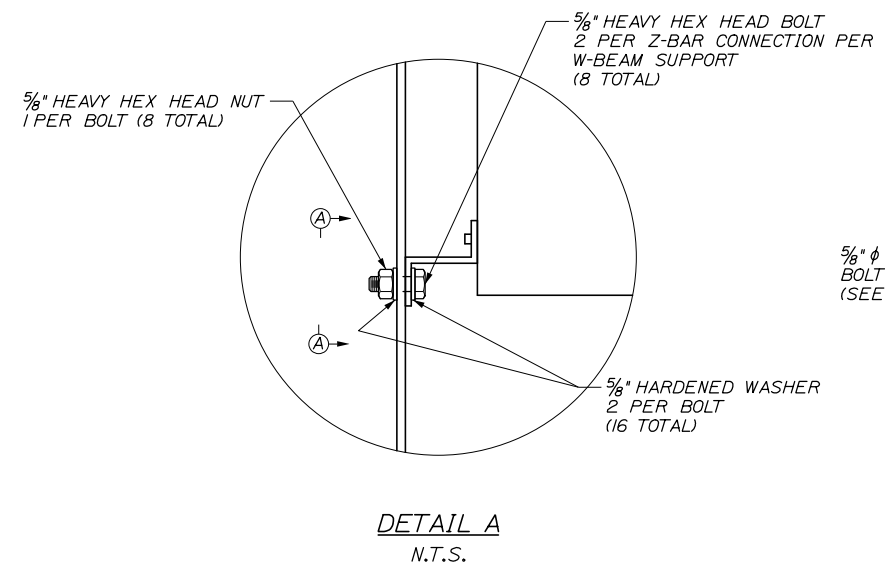
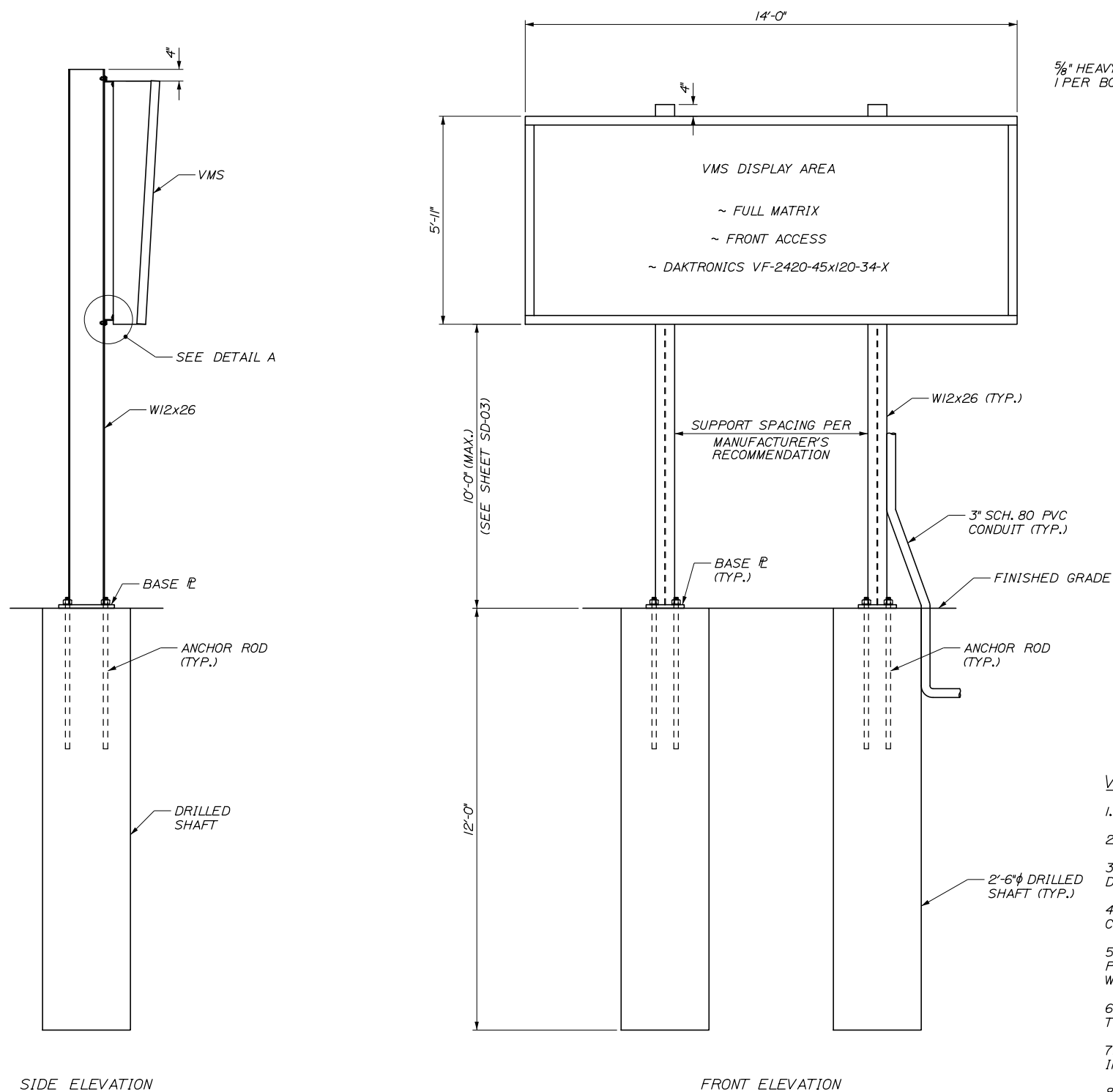
HNTB CORPORATION			
340 County Road, Suite 6-C			
Westbrook, ME 04092			
TEL (207) 774-5155			
FAX (207) 228-0909			

THE GOLD STAR MEMORIAL HIGHWAY			

PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS VARIABLE MESSAGE SIGNS DETAILS			
SHEET NUMBER: SS-09			
CONTRACT: 2020.03			
308 OF 310			

MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE			
---	--	--	--

Date: 2/25/2020



VARIABLE MESSAGE SIGN (VMS) NOTES:

1. PAYMENT FOR VMS AND VMS SIGN STRUCTURE, INCLUDING POSTS, BASE PLATES AND ANCHOR RODS SHALL BE UNDER ITEM 650.101.
2. PAYMENT FOR VMS SUPPORT FOUNDATION SHALL BE UNDER ITEM 626.701.
3. ALL DETAILS NOT SHOWN FOR THE W-BEAM POSTS, BASE PLATES AND ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 645(06) CORRESPONDING TO THE POST SIZE PROVIDED HEREIN.
4. ALL DETAILS NOT SHOWN FOR THE DRILLED SHAFT FOUNDATIONS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 626(03) FOR CORRESPONDING SIZE OF FOUNDATION PROVIDED HEREIN.
5. Z-BAR ANGLES SHALL BE FURNISHED AND INSTALLED WITH THE VMS TO MOUNT THE SIGN TO THE W-BEAM SIGN SUPPORTS. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO ITEM 650.101. HOLES FOR THE THROUGH BOLTS MAY BE PRE-DRILLED BY THE W-BEAM FABRICATOR OR MAY BE FIELD DRILLED ON SITE. FIELD DRILLED HOLES SHALL BE SPRAY GALVANIZED AFTER DRILLING.
6. VMS CABLES SHALL BE INSTALLED IN FLEXIBLE PVC OR RIGID GALVANIZED STEEL CONDUIT FROM THE CONTROLLER CABINET TO THE VMS. CONDUITS SHALL ENTER THE VMS AT THE LOCATION INDICATED BY THE MANUFACTURER.
7. CONDUIT FOR THE VMS CABLES SHALL BE 3" MINIMUM. CONDUITS SHALL BE FIRMLY ATTACHED TO THE SIGN SUPPORTS AT 5 FT INTERVALS, MAXIMUM, WITH NO SEGMENT OF UNSUPPORTED CONDUIT, INCLUDING FLEXIBLE CONDUIT, GREATER THAN 5 FT.
8. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SCHEDULE FOR APPROVAL. ALL REINFORCING STEEL SHALL BE INCIDENTAL TO ITEM 626.701.
9. ALL EXCAVATION, INCLUDING ROCK EXCAVATION AND STRUCTURAL EXCAVATION AND BACKFILL SHALL BE INCIDENTAL.

GROUND MOUNTED VARIABLE MESSAGE SIGN (VMS) - STA. 2266+50

1/2" = 1'-0"

Filename: PAW1_Variable Signs_Foundation

Scale:			
NO SCALE			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.			
	By	Date	
	By	Date	
	By	Date	
	By	Date	

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909

THE GOLD STAR
MEMORIAL HIGHWAY

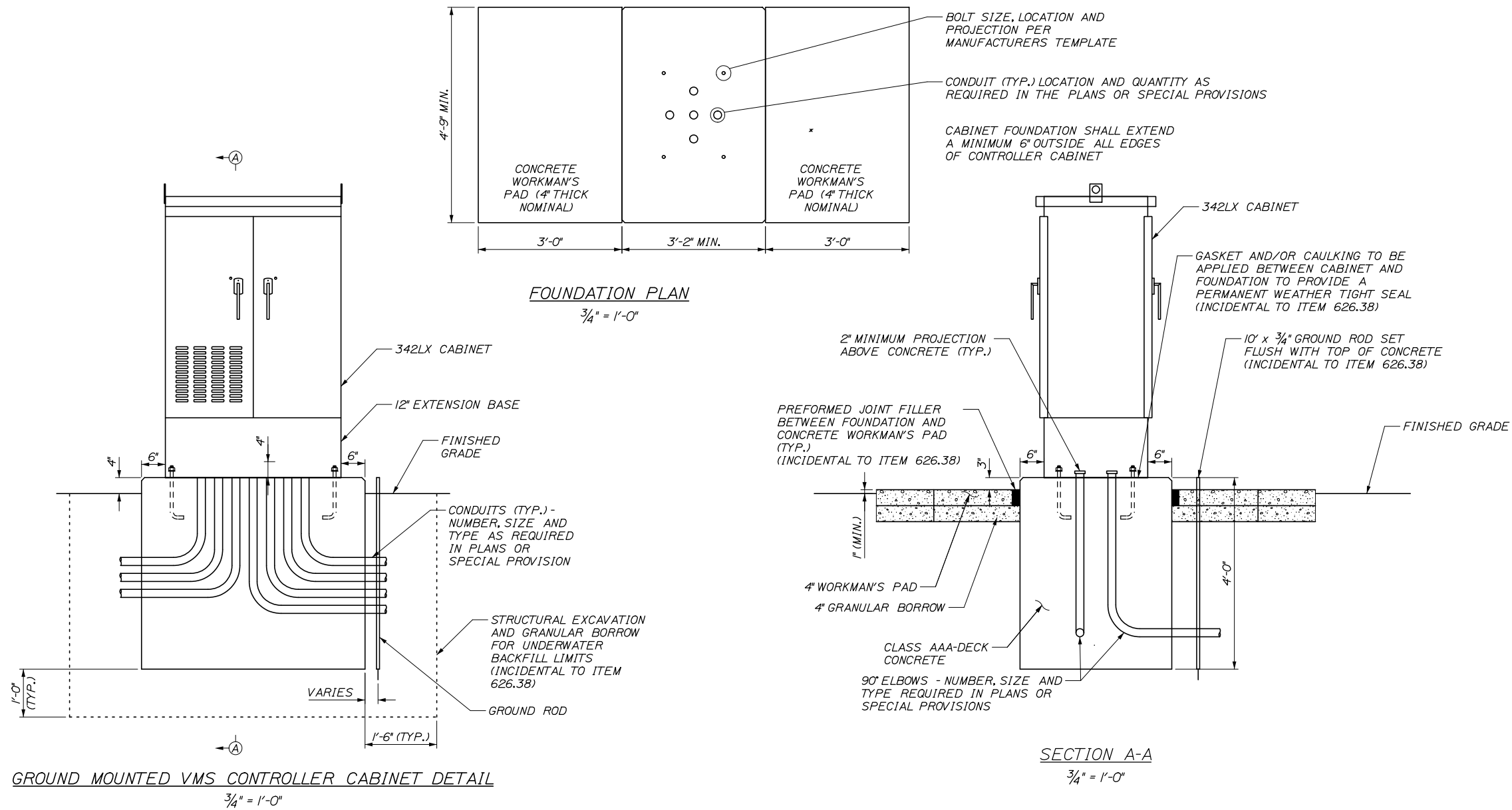
MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE

PORTLAND AREA WIDENING &
SAFETY IMPROVEMENTS

STA. 2266+50 VMS
SIGN STRUCTURE AND FOUNDATION

SHEET NUMBER: SS-10
CONTRACT: 2020.03
309 OF 310

Date: 2/26/2020



NOTES:

1. PAYMENT FOR CONTROLLER CABINET, SHALL BE UNDER ITEMS 650.201 AND 650.202. SEE SPECIAL PROVISION.
2. PAYMENT FOR CONTROLLER CABINET FOUNDATION AND WORKMAN'S PADS SHALL BE UNDER ITEM 626.38.
3. WORKMAN'S PADS (AND CABINET DOORS) SHOULD BE ORIENTED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE RESIDENT.
4. CONTRACTOR SHALL INSTALL A SPARE 3" PVC CONDUIT RUNNING TO JUNCTION BOX ADJACENT TO CABINET.
5. CONCRETE WORKMAN'S PAD SHALL HAVE #4 REINFORCING BARS AT 12" O.C. AT MID DEPTH IN BOTH DIRECTIONS, INCIDENTAL TO ITEM 626.38.
6. ALL DETAILS NOT SHOWN FOR DRILLED SHAFT FOUNDATION ON SHEET SS-10 SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 626(03) FOR CORRESPONDING SIZE OF FOUNDATION PROVIDED HEREIN.
7. REINFORCING STEEL SCHEDULE SHALL BE SUBMITTED FOR APPROVAL FOR CONTRACTOR'S SELECTED FOUNDATION OPTION. ALL REINFORCING STEEL SHALL BE INCIDENTAL TO ITEM 626.38.
8. ALL EXCAVATION, INCLUDING ROCK EXCAVATION AND STRUCTURAL EXCAVATION AND BACKFILL SHALL BE INCIDENTAL.

Filename: PAW1_Variable Signs_Cabinet

Scale: NO SCALE		Designed by: HNTB		HNTB CORPORATION 340 County Road, Suite 6-C Westbrook, ME 04092 TEL (207) 774-5155 FAX (207) 228-0909		 THE GOLD STAR MEMORIAL HIGHWAY		PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS STA. 2266+50 VMS CABINET																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 15%;">Revision</th> <th style="width: 5%;">By</th> <th style="width: 5%;">Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													CONSULTANT PROJECT MANAGER: DALE A. MITCHELL, P.E.		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>BRG 02\20</td> <td>Checked</td> <td>JDW 02\20</td> </tr> <tr> <td>Drawn</td> <td>ERB 02\20</td> <td>In Charge of</td> <td>RAL 02\20</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	BRG 02\20	Checked	JDW 02\20	Drawn	ERB 02\20	In Charge of	RAL 02\20	MTA PROJECT MANAGER: RALPH NORWOOD IV, P.E., PTOE		CONTRACT: 2020.03 SHEET NUMBER: SS-11 310 OF 310	
No.	Revision	By	Date																																		
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THE GOLD STAR
MEMORIAL HIGHWAY

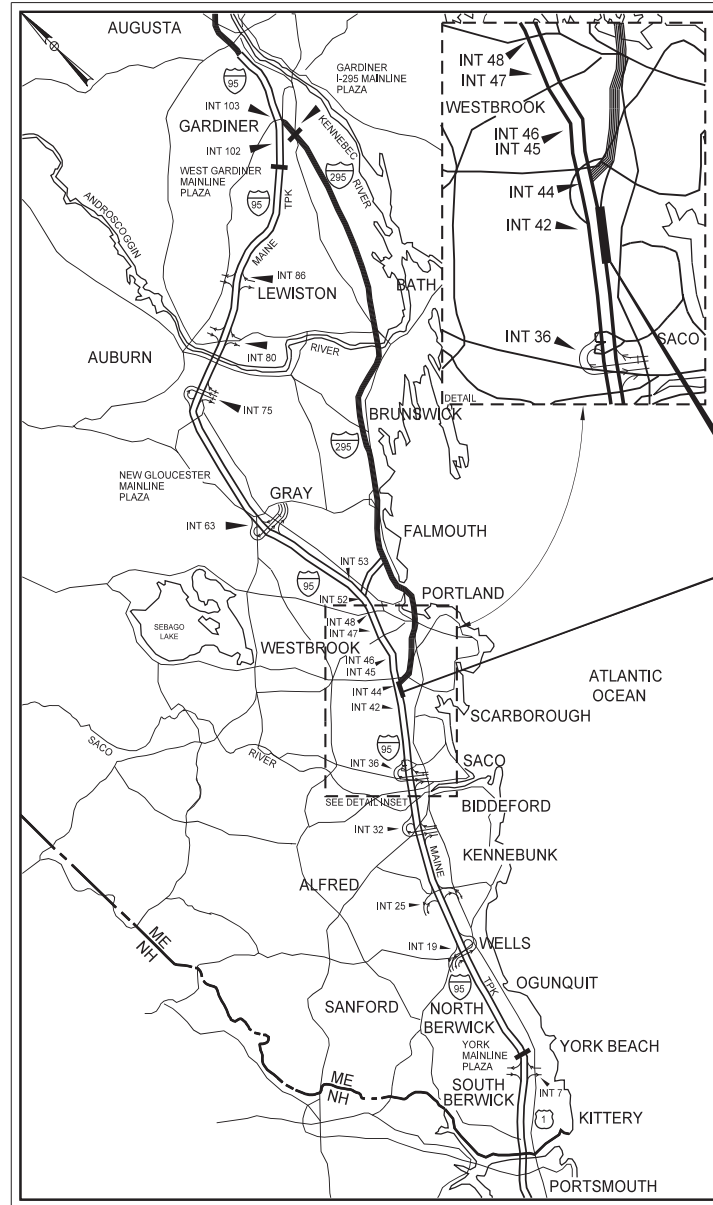
MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
ROBERT D. STONE, VICE CHAIR
MICHAEL J. CIANCHETTE, MEMBER
ANN R. ROBINSON, MEMBER
THOMAS J. ZUKE, MEMBER
BRUCE A. VAN NOTE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

APPENDIX A CONTRACT 2020.03 EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS MM 44.3

INDEX OF SHEETS	
APPENDIX A	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	ESTIMATED QUANTITIES & EARTHWORK SUMMARY
A3	GENERAL NOTES
A4-A5	TYPICAL SECTIONS
A6-A17	MAINTENANCE OF TRAFFIC
A18-A24	DETAILS
A25-A27	GENERAL PLANS
A28	PROFILE
A29-A34	SIGNING & STRIPING PLANS & DETAILS
A35-A39	LIGHTING PLANS & DETAILS
A40	LIMIT OF DISTURBANCE PLAN
A41-A76	CROSS SECTIONS



LOCATION MAP

EXIT 44 NORTHBOUND OFF RAMP
IMPROVEMENTS
(MM 44.3)

CONTRACT 2020.03



Date: 2/25/2020

Filename: ...:\00\HIGHWAY\MSTA\MTA_Title.dgn

Date: 2/25/2020

Filename: ...\\00\HIGHWAY\MSTA_Estimate.dgn

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
SEE PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS ESTIMATED QUANTITIES (1 of 2) AND (2 of 2)			

EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	8,056
GRUBBING IN FILL	561
MUCK EXCAVATION (FROM CROSS SECTIONS)	148
TOTAL COMMON EXCAVATION	8,765

ITEM 203.20 - COMMON EXCAVATION

8,800

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	979
GRUBBING IN FILL	561
MUCK EXCAVATION	148
TOTAL FILL	1,688

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION 8,765

DEDUCTIONS:

GRUBBING IN CUT	1839
GRUBBING IN FILL	561
MUCK EXCAVATION	148
PAVEMENT REMOVAL	909

(2) TOTAL DEDUCTIONS

3,457

TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)

5,308

TOTAL AVAILABLE STRUCTURAL EXCAVATIONS (EARTH RETAINING BARRIER)

500

TOTAL AVAILABLE NON-ROCK EXCAVATION

5,808

COMPUTATION FOR GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW TO REPLACE MUCK	148
GRANULAR BORROW IN LOW WET AREAS	0
GRANULAR BORROW TO UPGRADE EXCAVATION	0
GRANULAR BORROW TO MAINTAIN TRAFFIC	0
GRANULAR BORROW FOR UNDERCUTTING	0
GRANULAR BORROW =	148 X 1.00 = 148

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3) TOTAL FILL 1,688

TOTAL AVAILABLE NON-ROCK EXCAVATION 5,808 X 0.90 = 5,228

(4) TOTAL AVAILABLE EXCAVATION 5,228

(4) - (3) SURPLUS MATERIAL = 3,539

NOTE: THIS SHEET ONLY APPLIES TO
APPENDIX A EXIT 44 NORTHBOUND
OFF RAMP IMPROVEMENTS

Scale:			
No.	Revision	By	Date

Designed by:					
Stantec					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS ESTIMATED QUANTITIES & EARTHWORK SUMMARY

SHEET NUMBER: QN-01
CONTRACT: 2020.03 A2 OF A76

GENERAL

- ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MaineDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES 2014 WITH UPDATES AND MaineDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS OR PROJECT SPECIFICATIONS.
- ALL EXISTING ROADWAYS USED IN ACCESSING THE SITE SHALL REMAIN CLEAN IN ACCORDANCE WITH THE MaineDOT STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- A COPY OF THE "GEOTECHNICAL REPORT" IS AVAILABLE FOR DOWNLOAD AT MAINETURNPIKE.COM.
- GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THIS PLAN SET IS FOR THE USE OF THE BIDDERS AND THE CONTRACTOR. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS OF THE CONSTRUCTION SITE. THE MTA WILL NOT BE RESPONSIBLE FOR THE BIDDERS' OR CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
- DUST CONTROL IS INCIDENTAL TO CONTRACT.
- ALL EXISTING DELINEATOR AND MILE MARKER POSTS SHALL BE REMOVED AND RESET UPON COMPLETION OF THE CONTRACT. REPLACEMENT POSTS FOR CONTRACTOR DAMAGED DELINEATOR POSTS WILL BE SUPPLIED BY THE CONTRACTOR AND WILL BE PAID UNDER ITEM 606.356I, DELINEATOR POST- REMOVE AND RESET.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID IMPACTS TO THE DELINEATED WETLAND AREAS BEYOND WHAT IMPACTS ARE SHOWN IN THESE PLANS.
- ANY DAMAGE TO FINAL PAVEMENT, SLOPES, OR STRUCTURES CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE A THE CONTRACTOR'S EXPENSE.

EARTHWORK

- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
- WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
- THE NORMAL GRUBBING WIDTH IN THE FILLS SHALL BE VARIABLE WHEN SUBGRADE IS LESS THAN 5' ABOVE OLD GROUND. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6' IN FIELD AREAS AND 12' IN WOODED AREAS.
- 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.
- DO NOT EXCAVATE FOR AGGREGATE SUBBASE COURSE WHERE EXISTING MATERIAL IS SUITABLE AS DETERMINED BY THE RESIDENT.
- GRANULAR BORROW AND AGGREGATE SHALL BE COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR. COMMON BORROW SHALL BE COMPACTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR.
- REMOVAL OF EXISTING PAVEMENT, WITHIN THE AREAS OF FULL DEPTH PAVEMENT REMOVAL AND FULL DEPTH RECONSTRUCTION, SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 10'.

UTILITY

- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY 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 ALSO 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 CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS' UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL SIGN LOCATIONS AND/OR ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.
- THE UTILITIES INVOLVED IN THIS CONTRACT ARE:
MAINE TURNPIKE AUTHORITY (LIGHTING)
CENTRAL MAINE POWER (ELECTRICAL)
PORTLAND WATER DISTRICT (WATER)

GUARDRAIL

- AT THE END OF THE WORK DAY, EVERYDAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL WITHIN ALL WORK AREAS THAT ARE ACCESSIBLE TO TRAFFIC.
- ALL PROPOSED AND RESET GUARDRAIL SHALL BE INSTALLED IN A MANNER TO AVOID ALL EXISTING AND PROPOSED SUBSURFACE FEATURES.
- ALL EXISTING GUARDRAIL NOTED TO BE REMOVED (EXCLUDING END TREATMENTS) SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
- DAMAGE TO EXISTING PAVEMENT OR NEW PAVEMENT DUE TO THE INSTALLATION OF NEW OR RESET GUARDRAIL SHALL BE REPAIRED WITH NO ADDITIONAL COMPENSATION TO THE CONTRACTOR.
- ONE REFLECTORIZED FLEXIBLE GUARDRAIL MARKER SHALL BE INSTALLED AT EACH GUARDRAIL TERMINAL. TWO REFLECTORIZED FLEXIBLE GUARDRAIL MARKERS SHALL BE INSTALLED AT EACH GUARDRAIL END TREATMENT.
- IN NON-GUARDRAIL AREAS, DELINEATORS SHALL BE SPACED AT 264' ON MAINLINE AND AT 50' ON RAMPS. THE CONTRACTOR SHALL CONFIRM THE DELINEATOR LAYOUT WITH THE RESIDENT. NEW DELINEATOR POSTS SHALL BE PAID FOR UNDER ITEM 606.356 AS UNDERDRAIN DELINEATOR POSTS.

PAVING

- PLACEMENT OF THE FINAL LIFTS OF PAVEMENT SHALL BE DONE IN A MANNER TO LIMIT PAVEMENT JOINTS. CONTRACTOR SHALL COORDINATE WITH RESIDENT.
- WHERE PROPOSED PAVEMENT JOINS EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE SAW CUT ALONG A SMOOTH LINE TO A NEAT, EVEN AND VERTICAL JOINT, AS DIRECTED BY THE RESIDENT. SAWCUTTING SHALL BE PAID FOR UNDER ITEM 419.30. ALL WORK NECESSARY FOR THE PREPARATION OF THE JOINT SHALL BE CONSIDERED INCIDENTAL TO THE RELATED CONTRACT ITEMS.
- ALL JOINTS BETWEEN EXISTING AND PROPOSED HOT BITUMINOUS PAVEMENT SHALL BE BUTTED.
- ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE CONSIDERED INCIDENTAL TO THE RELATED PAVING ITEMS.
- A COATING OF HOT RUBBERIZED ASPHALT (SS-S-140IC) SHALL BE APPLIED TO ALL TRANSVERSE BUTT JOINTS AND LONGITUDINAL JOINTS IN THE TOP LIFT OF PAVEMENT ALONG THE MAINE TURNPIKE AND RAMPS.
- A BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL PAVEMENT LIFTS.

EROSION CONTROL

- 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.
- 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.
- NEWLY DISTURBED EARTH SHALL BE MULCHED PRIOR TO A RAIN EVENT. THIS WORK SHALL BE PAID FOR UNDER ITEM 619.I202 TEMPORARY MULCH.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
- TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS. TEMPORARY SEED SHALL BE INCIDENTAL TO THE 618 ITEMS.
- EROSION CONTROL BLANKET, ITEM 613.319, SHALL BE INSTALLED IN ALL DITCHES AND SLOPES GREATER THAN 3:1 FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 6' WIDE OR AS DESIGNATED BY THE RESIDENT.
- ALL SLOPES SHALL BE SEEDED WITH SEEDING METHOD NO. 2.
- A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT AND MAINTENANCE OF EROSION CONTROL ITEMS AROUND STOCKPILES, IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" (BMP). PAYMENT FOR THESE ITEMS SHALL BE INCIDENTAL TO THE MATERIALS STOCKPILED.
- TEMPORARY BERMS AND TEMPORARY SLOPE DRAINS ARE ANTICIPATED AT ALL DOWNSPOUT LOCATIONS AND TOP OF EMBANKMENTS WHILE GROWTH IS BEING ESTABLISHED ON SIDE SLOPES.
- TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODABLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS.
- TEMPORARY STONE CHECK DAMS SHALL BE PLACED IN EXISTING DITCHES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT. TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION BEST MANAGEMENT PRACTICES.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE USED AND MAINTAINED. NO TRACKING OF SOIL ON THE MAINE TURNPIKE OR LOCAL ROADS WILL BE ALLOWED.

DRAINAGE

- NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
- INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
- ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.
- EXISTING CULVERTS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 631.32 CULVERT CLEANER (INCLUDING OPERATORS).
- ONE GREEN DELINEATOR POST SHALL BE INSTALLED AT ALL UNDERDRAIN AND STORM DRAIN OUTLETS.
- REMOVAL OF EXISTING DRAINAGE PIPES, AS NOTED ON THE PLANS, SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.20 COMMON EXCAVATION.


NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Date: 2/25/2020

Filename: ... \HIGHWAY\MSTA\GeneralNotes.dgn

Scale:			
No.	Revision	By	Date

Designed by:



STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	TFD	02\20	Checked	LEM	02\20
Drawn	PZA	02\20	In Charge of	GAE	02\20



THE GOLD STAR
MEMORIAL HIGHWAY

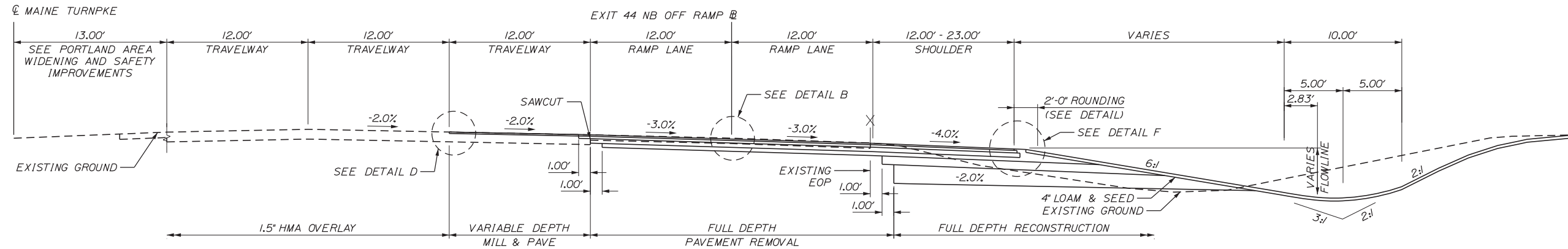
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
GENERAL NOTES

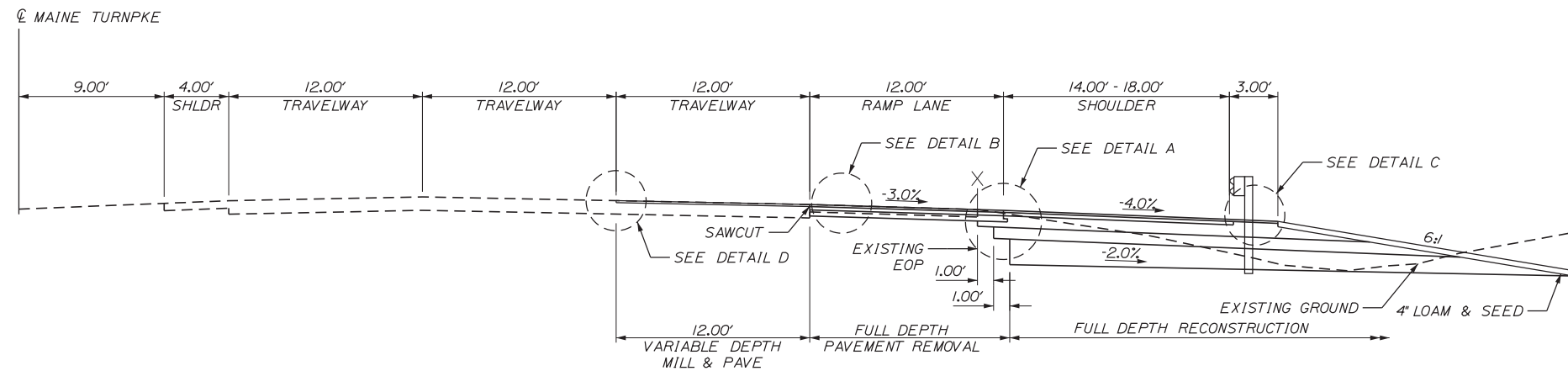
SHEET NUMBER: GN-01
CONTRACT: 2020.03
A3 OF A76

Date: 2/25/2020

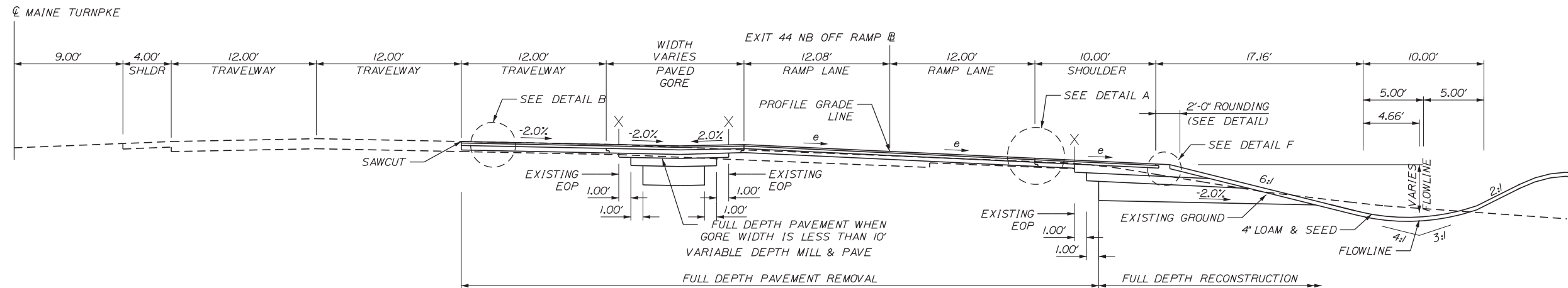
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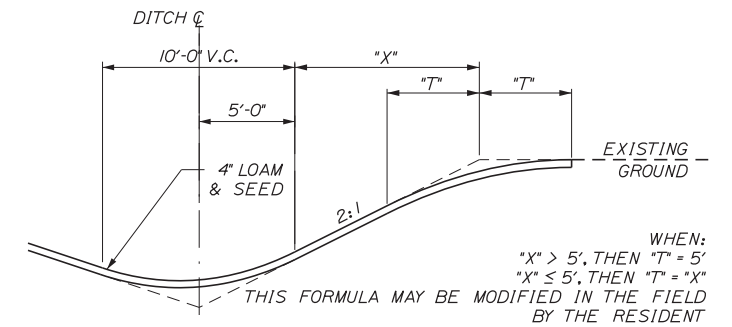
MAINE TURNPIKE WITH ADJACENT RAMP
 STA. 2160+80.00 TO STA. 2175+34.68
 STA. 2178+80.00 TO STA. 2185+51.71



MAINE TURNPIKE WITH ADJACENT RAMP AND GUARDRAIL
 STA. 2176+04.45 TO STA. 2177+57.00



MAINE TURNPIKE WITH GORE AND ADJACENT RAMP
 STA. 2185+51.71 TO STA. 2188+52.16



BACKSLOPE ROUNDING DETAIL

NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS



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STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
 FAX (207) 883-3376



**THE GOLD STAR
 MEMORIAL HIGHWAY**

**EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS**

TYPICAL SECTIONS 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

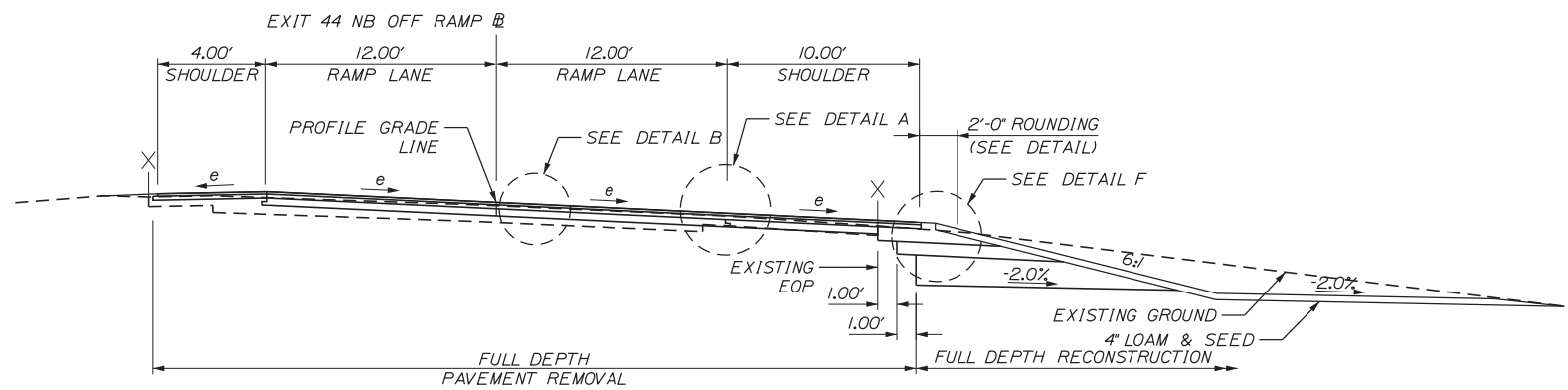
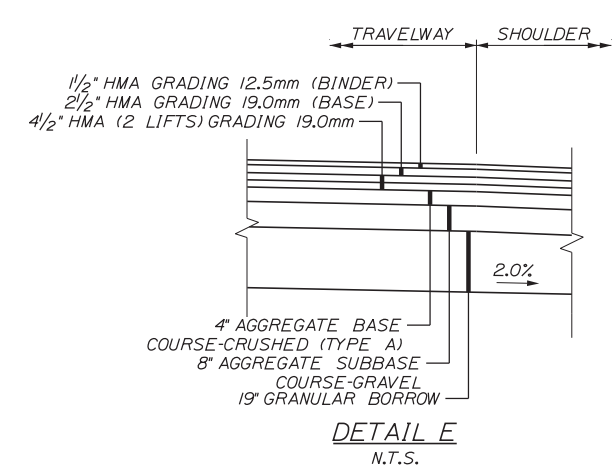
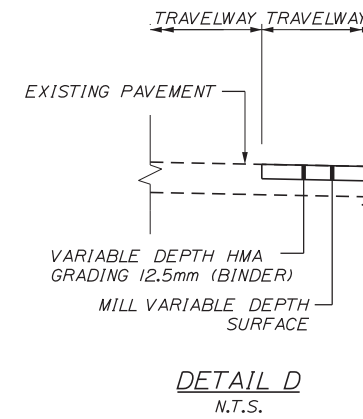
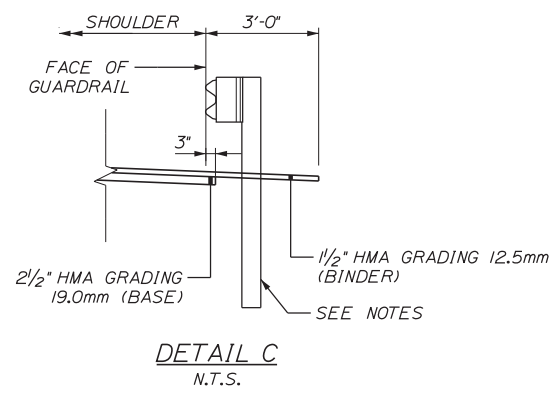
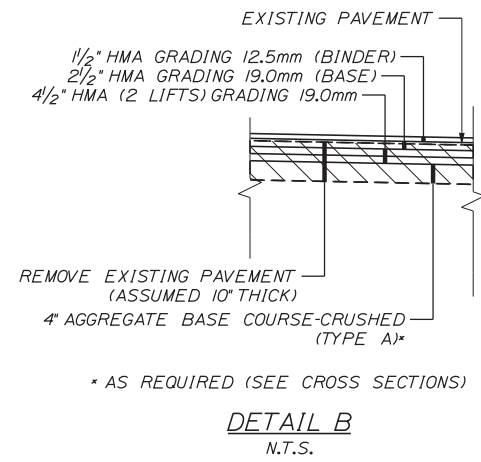
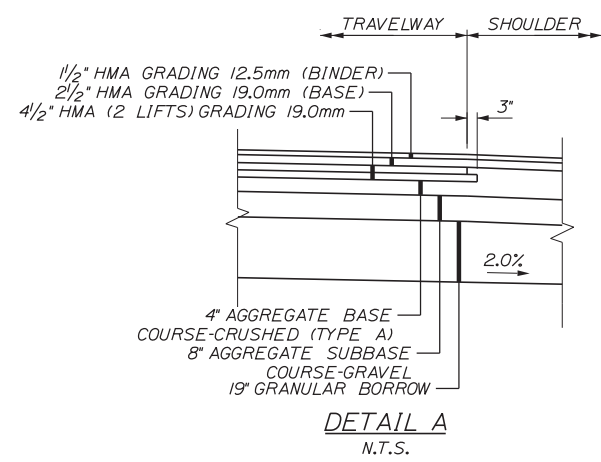
CONTRACT: 2020.03

SHEET NUMBER: TS-1

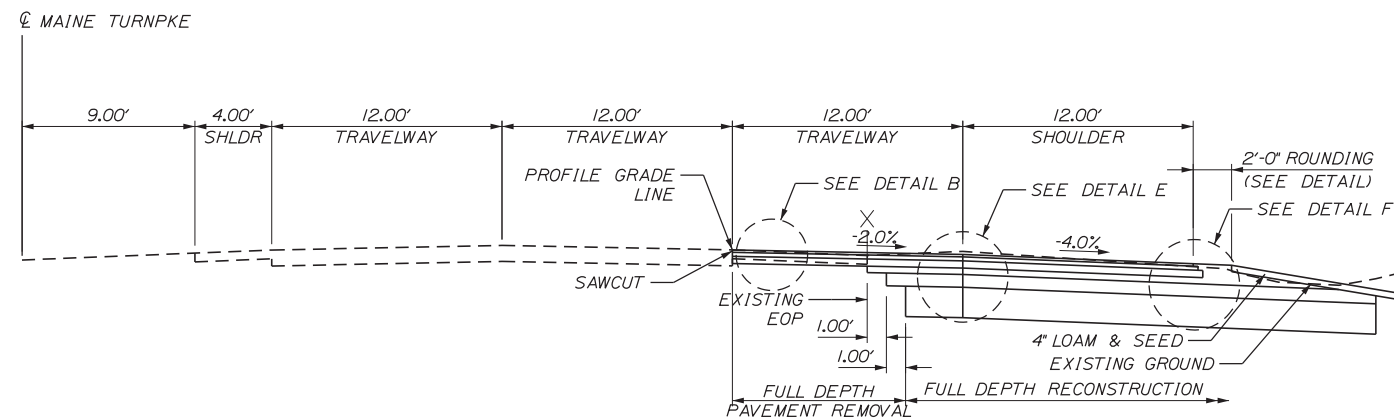
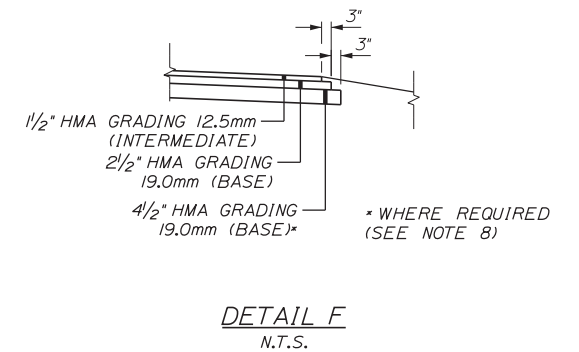
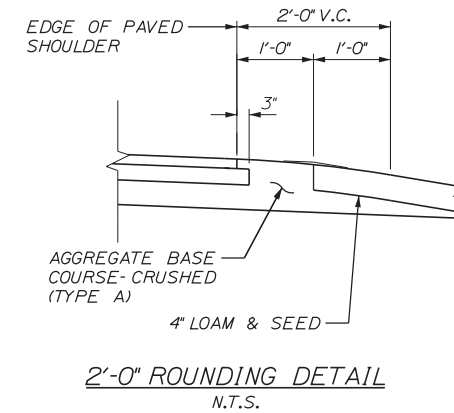
A4 OF A76

Date: 2/25/2020

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EXIT 44 NORTHBOUND OFF RAMP
STA. 188+50.93 TO STA. 190+69.88



MAINE TURNPIKE
STA. 2188+52.16 TO STA. 2190+50.00

OFF RAMP @ SUPERELEVATION TABLE

LEFT SHOULDER	LEFT TRAVELWAY	STATION	RIGHT TRAVELWAY	RIGHT SHOULDER
MATCH MAINLINE				
-2.0%	3.0%	184+00	-3.0%	-4.0%
-2.0%	4.0%	185+17.65	-4.0%	-4.0%
-2.0%	4.7%	186+00	-4.7%	-4.7%
FULL SUPERELEVATION				
-2.0%	4.7%	189+50	-4.7%	-4.7%
-4.0%	3.6%	190+00	-4.5%	-4.0%
FULL RAMP				

GENERAL NOTES

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. CROWNS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.
3. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER AS TO LEAVE A CLEAN, VERTICAL FACE.
4. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY RESIDENT. BITUMINOUS TACK COAT IS REQUIRED ON ALL EXISTING PAVED OR MILLED SURFACES PRIOR TO PLACING PROPOSED PAVEMENT.
5. A COATING OF HOT RUBBERIZED ASPHALT SHALL BE APPLIED TO SURFACE LAYER OF ALL SAWCUT AND PAVEMENT JOINTS AND PAVEMENT AND CONCRETE JOINTS PRIOR TO PAVING. REMAINDER OF SAWCUT TO BE BITUMINOUS TACK COAT. PAYMENT SHALL BE INCIDENTAL TO THE PAVEMENT ITEMS.
6. WHEN SUPERELEVATION EXCEEDS 4%, LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVEL LANE.
7. *ROLLOVER* ALGEBRAIC DIFFERENCE IN RATES OF CROSS SLOPE SHALL NOT EXCEED 8%.
8. DEPTH OF PAVEMENT IN SHOULDER SHALL BE 8.5 INCHES (DETAIL E) FROM STA. 2160+80.00 TO STA. 2175+34.68 AND STA. 2188+52.16 TO STA. 2190+50.00.
9. GUARDRAIL HEIGHT SHALL BE INSTALLED FOR NEAR FUTURE FINAL 1/2 INCH LIFT OF PAVEMENT BY OTHERS.

NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS



Designed by:



STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376



THE GOLD STAR MEMORIAL HIGHWAY

EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

TYPICAL SECTIONS 2

No.	Revision	By	Date

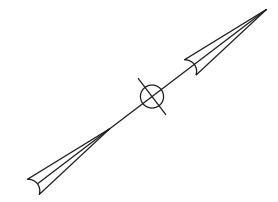
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE			
By	Date	By	Date
Designed	JMB 02\20	Checked	LEM 02\20
Drawn	EJB 02\20	In Charge of	GAE 02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

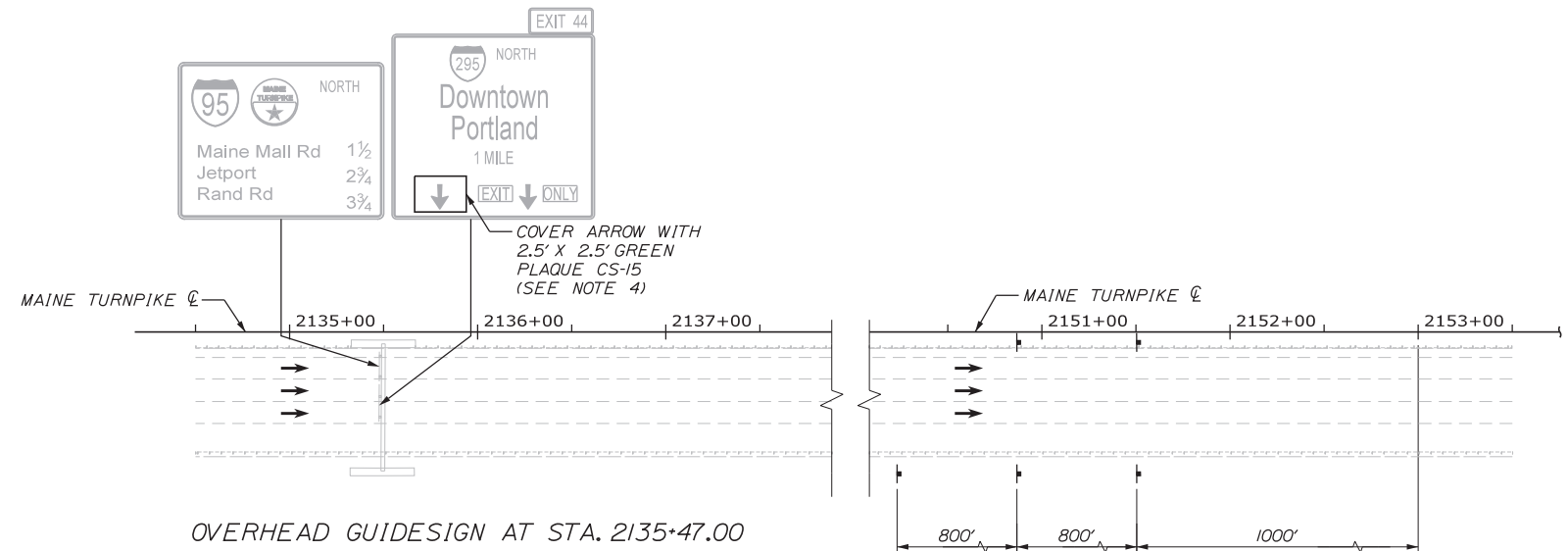
SHEET NUMBER: TS-2

A5 OF A76

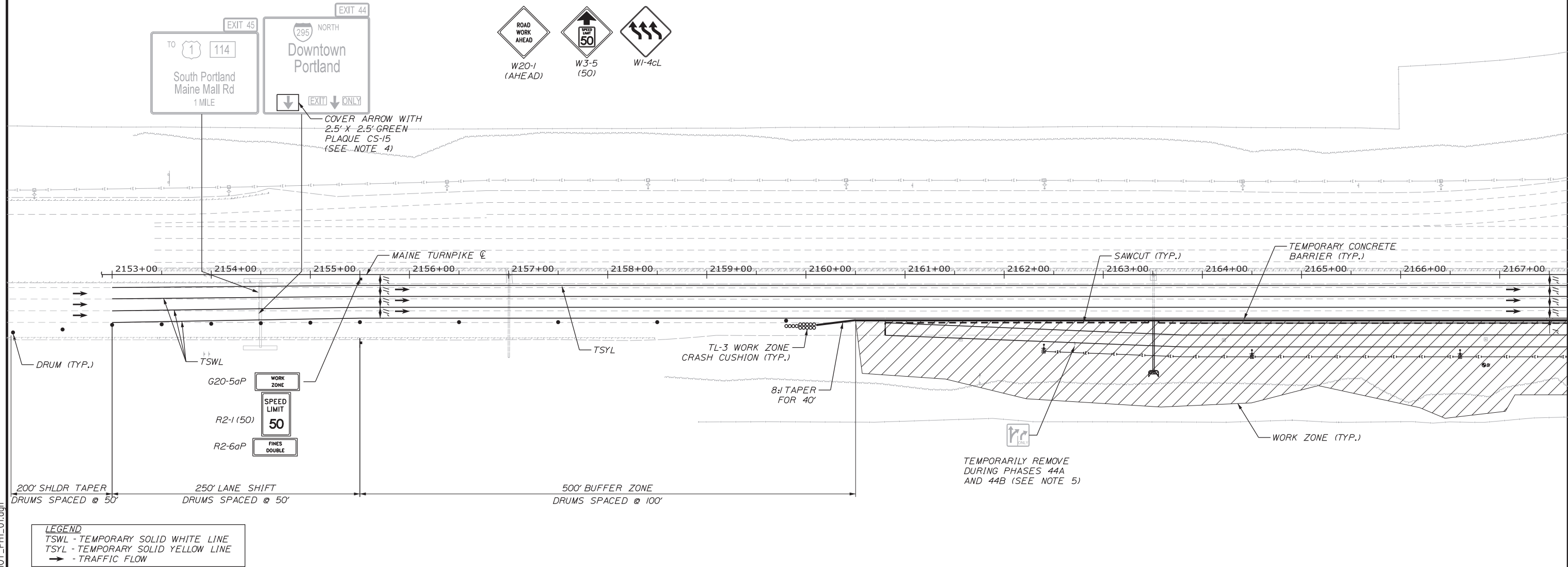
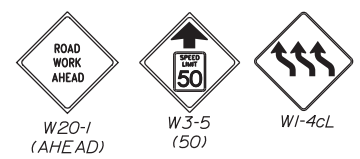


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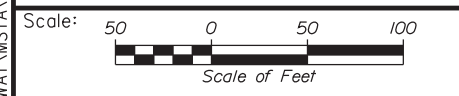
1. RUMBLE STRIPS SHALL BE REMOVED FROM STA. 2153+00 TO STA. 2190+50, LT. (MEDIAN)
2. PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN, THE EXISTING CATCH BASIN GRATE SHALL BE SEALED. THE FRAME SHALL BE CLEANED TO ACCEPT A BEAD OF ELASTOMERIC SEALER. ELASTOMERIC SEALER SHALL BE SIKAFLEX IA AS MANUFACTURED BY SIKA OR AN APPROVED EQUAL SEALER SHALL BE PLACED IN A CONTINUOUS BEAD OVER THE HORIZONTAL SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. THE EXISTING GRATE SHALL BE REINSTALLED AND ALLOWED TO SET FOR A MINIMUM OF 1-1/2-HOUR BEFORE RECEIVING TRAFFIC LOADS. WORK SHALL BE INCIDENTAL TO ITEM 652.36I MAINTENANCE OF TRAFFIC CONTROL DEVICES.
3. PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN, THE EXISTING SHOULDER SHALL BE REVIEWED. TEMPORARY PAVEMENT WIDENING SHALL BE PLACED AND BERM CORRECTIONS SHALL BE MADE AS DIRECTED BY THE RESIDENT. SEE SPECIAL PROVISION 470.
4. GREEN PLAQUES ARE INCIDENTAL TO 652.35 CONSTRUCTION SIGNS.
5. CONTRACTOR SHALL TEMPORARILY RESET SIGN AFTER TWO LANES ARE RESTORED FOR EXIT 44 NB OFF RAMP DURING PHASES 1 AND 2 OF THE PORTLAND AREA WIDENING AND IMPROVEMENTS. WORK IS INCIDENTAL TO 645 ITEMS.



OVERHEAD GUIDESIGN AT STA. 2135+47.00



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE
 → - TRAFFIC FLOW



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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 482 PAYNE ROAD
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 TEL (207) 887-3448
 FAX (207) 883-3376

THE GOLD STAR MEMORIAL HIGHWAY

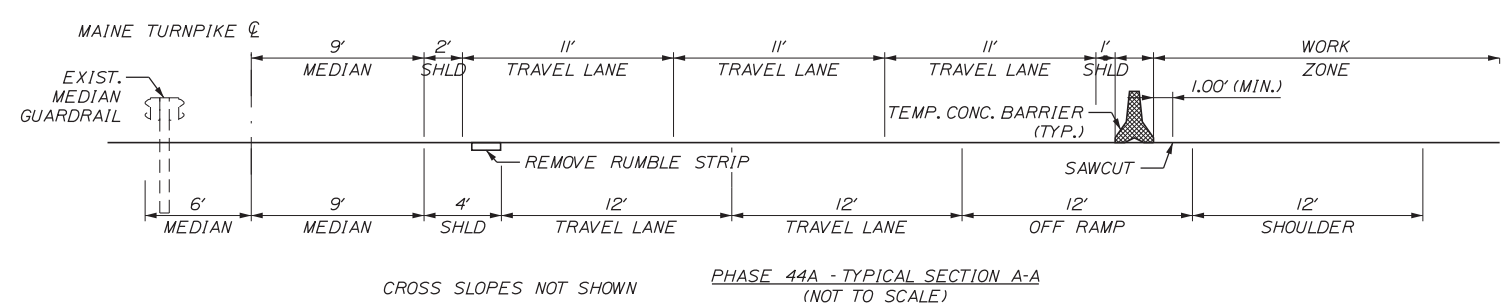
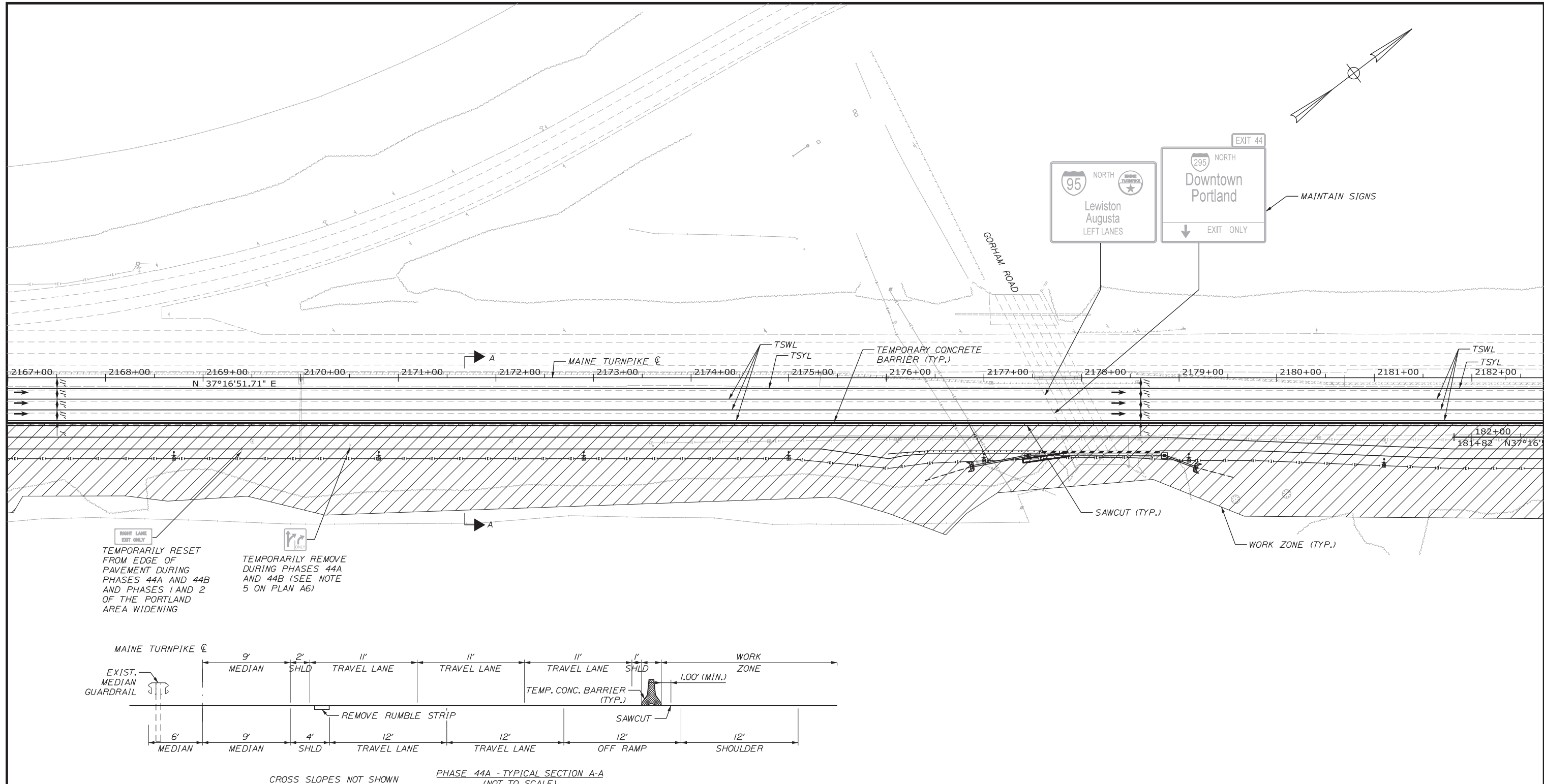
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 PHASE 44A
 MAINTENANCE OF TRAFFIC PLAN 1 OF 3

SHEET NUMBER: MOT-1
 CONTRACT: 2020.03
 A6 OF A76

Filename: ... \HIGHWAY\MSTA\MOT_PH1_01.dgn

Filename: ...HIGHWAY\MSTA\MOT_PH1_02.dgn



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE
 → - TRAFFIC FLOW

Scale: 25 0 25 50
 Scale of Feet

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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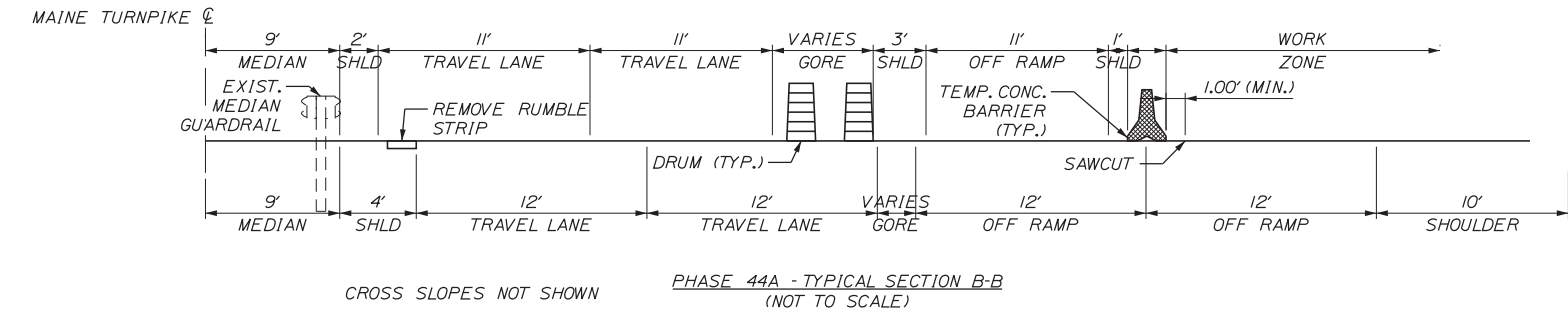
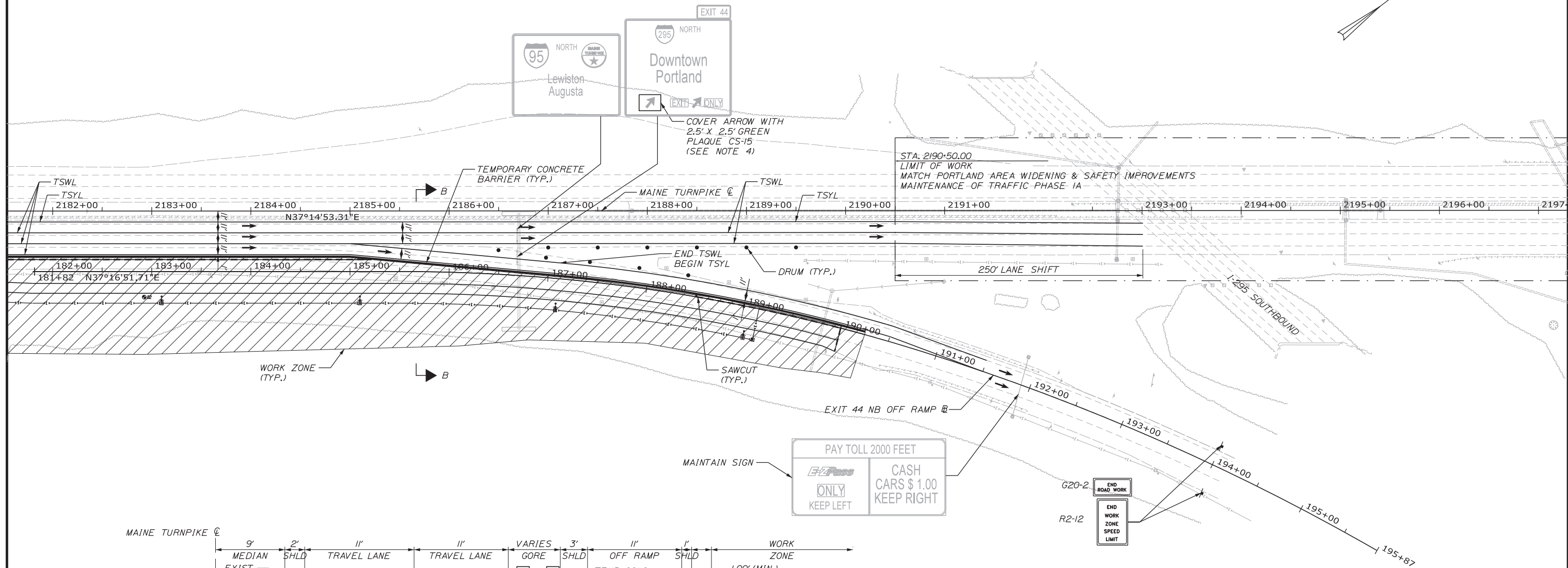
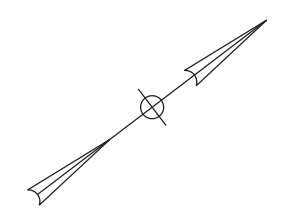
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

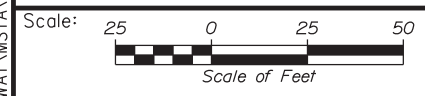
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 PHASE 44A
 MAINTENANCE OF TRAFFIC PLAN 2 OF 3

SHEET NUMBER: MOT-2
 CONTRACT:2020.03
 A7 OF A76



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE
 → - TRAFFIC FLOW



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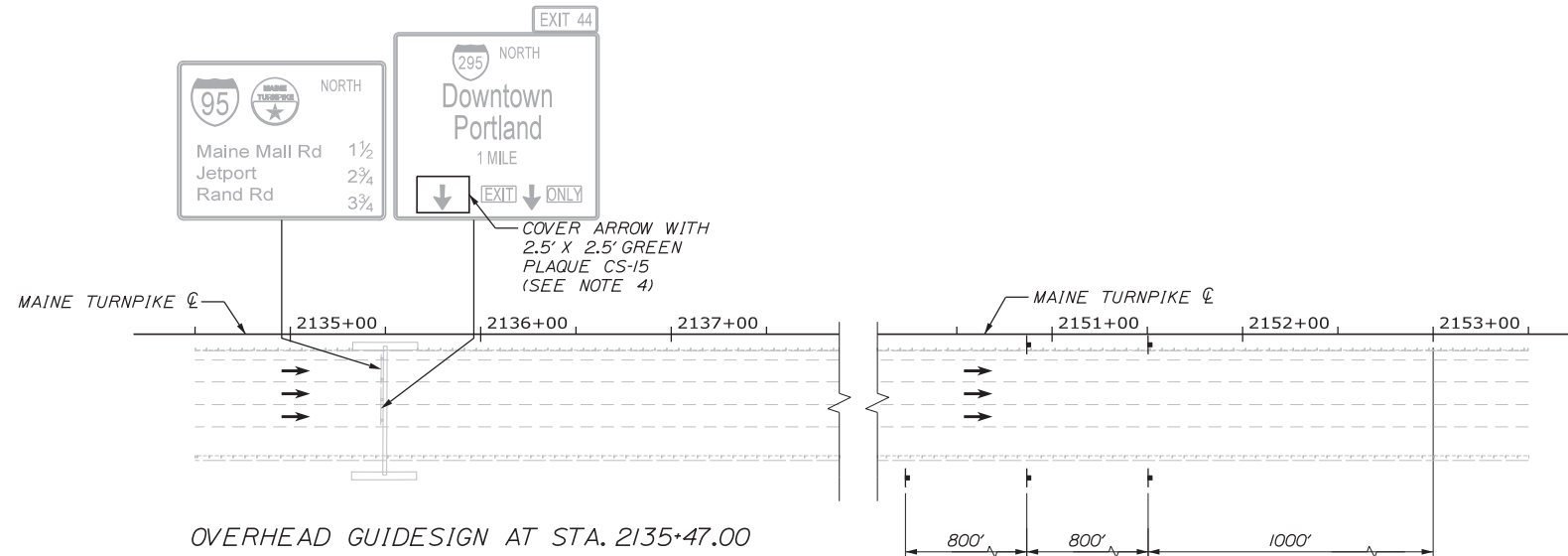
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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 PHASE 44A
 MAINTENANCE OF TRAFFIC PLAN 3 OF 3

SHEET NUMBER: MOT-3
 CONTRACT: 2020.03
 A8 OF A76

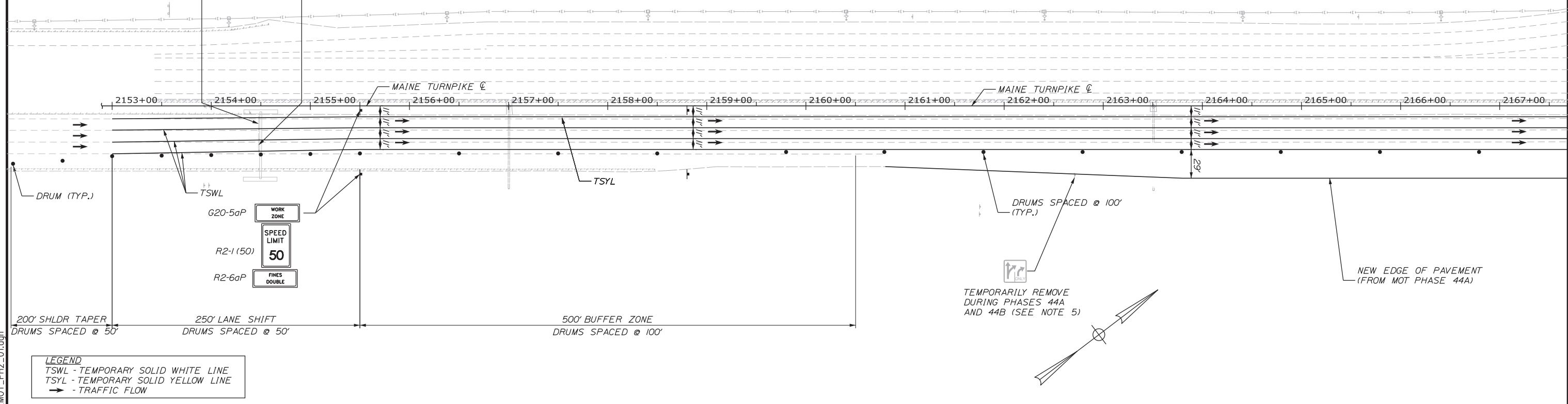
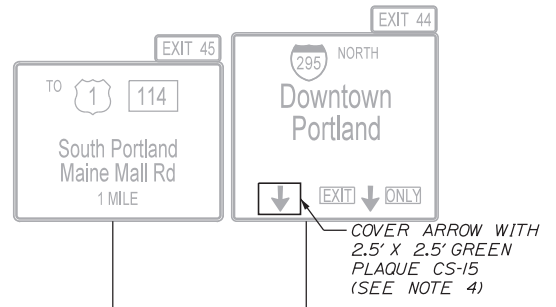
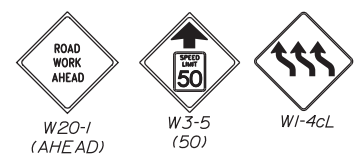
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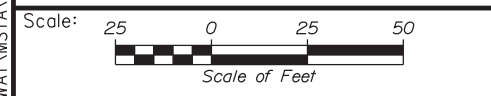
OVERHEAD GUIDESIGN AT STA. 2135+47.00

NOTES

- RUMBLE STRIPS SHALL BE REMOVED FROM STA. 2153+00 TO STA. 2190+50, LT. (MEDIAN)
- PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN, THE EXISTING CATCH BASIN GRATE SHALL BE SEALED. THE FRAME SHALL BE CLEANED TO ACCEPT A BEAD OF ELASTOMERIC SEALER. ELASTOMERIC SEALER SHALL BE SIKAFLEX 1A AS MANUFACTURED BY SIKA OR AN APPROVED EQUAL SEALER SHALL BE PLACED IN A CONTINUOUS BEAD OVER THE HORIZONTAL SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. THE EXISTING GRATE SHALL BE REINSTALLED AND ALLOWED TO SET FOR A MINIMUM OF 1-1/2-HOUR BEFORE RECEIVING TRAFFIC LOADS. WORK SHALL BE INCIDENTAL TO ITEM 652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- PRIOR TO SHIFTING TRAFFIC TOWARD MEDIAN, THE EXISTING SHOULDER SHALL BE REVIEWED, TEMPORARY PAVEMENT WIDENING SHALL BE PLACED AND BERM CORRECTIONS SHALL BE MADE AS DIRECTED BY THE RESIDENT. SEE SPECIAL PROVISION 470.
- GREEN PLAQUES ARE INCIDENTAL TO 652.35 CONSTRUCTION SIGNS.
- CONTRACTOR SHALL TEMPORARILY RESET SIGN AFTER TWO LANES ARE RESTORED FOR EXIT 44 NB OFF RAMP DURING PHASES 1 AND 2 OF THE PORTLAND AREA WIDENING AND IMPROVEMENTS. WORK IS INCIDENTAL TO 645 ITEMS.



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
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 → - TRAFFIC FLOW



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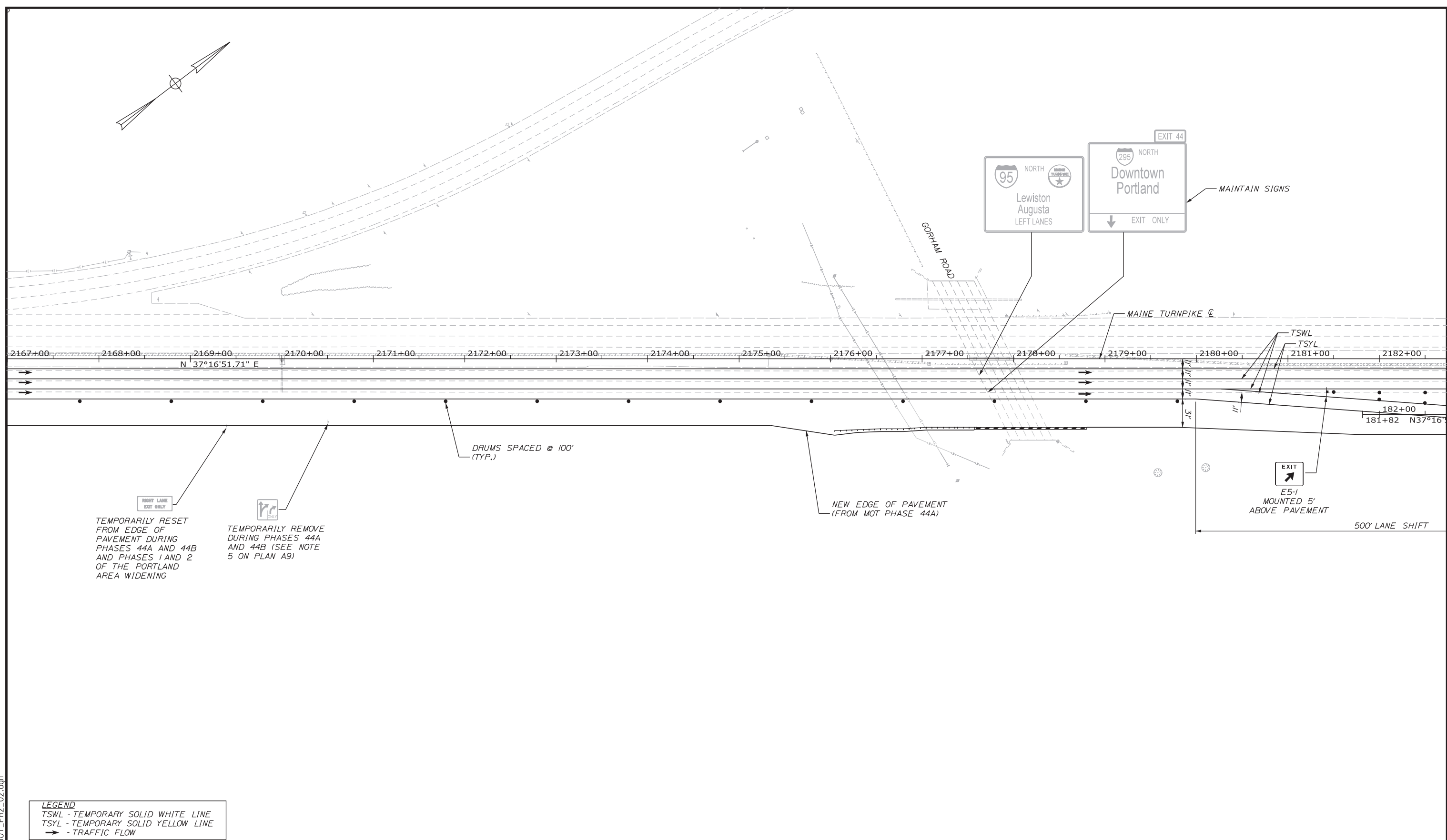
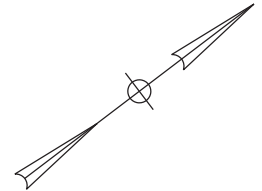
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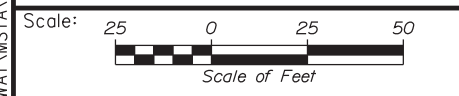
EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 PHASE 44B
 MAINTENANCE OF TRAFFIC PLAN 1 OF 3

SHEET NUMBER: MOT-4
 CONTRACT: 2020.03
 A9 OF A76

Filename: ... \HIGHWAY\MSTA\MOT_PH2_01.dgn



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE
 → - TRAFFIC FLOW



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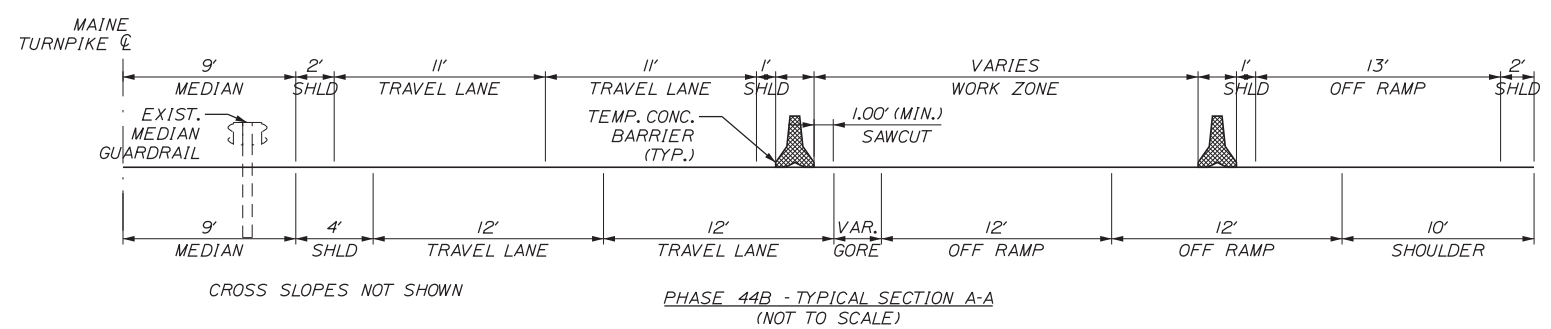
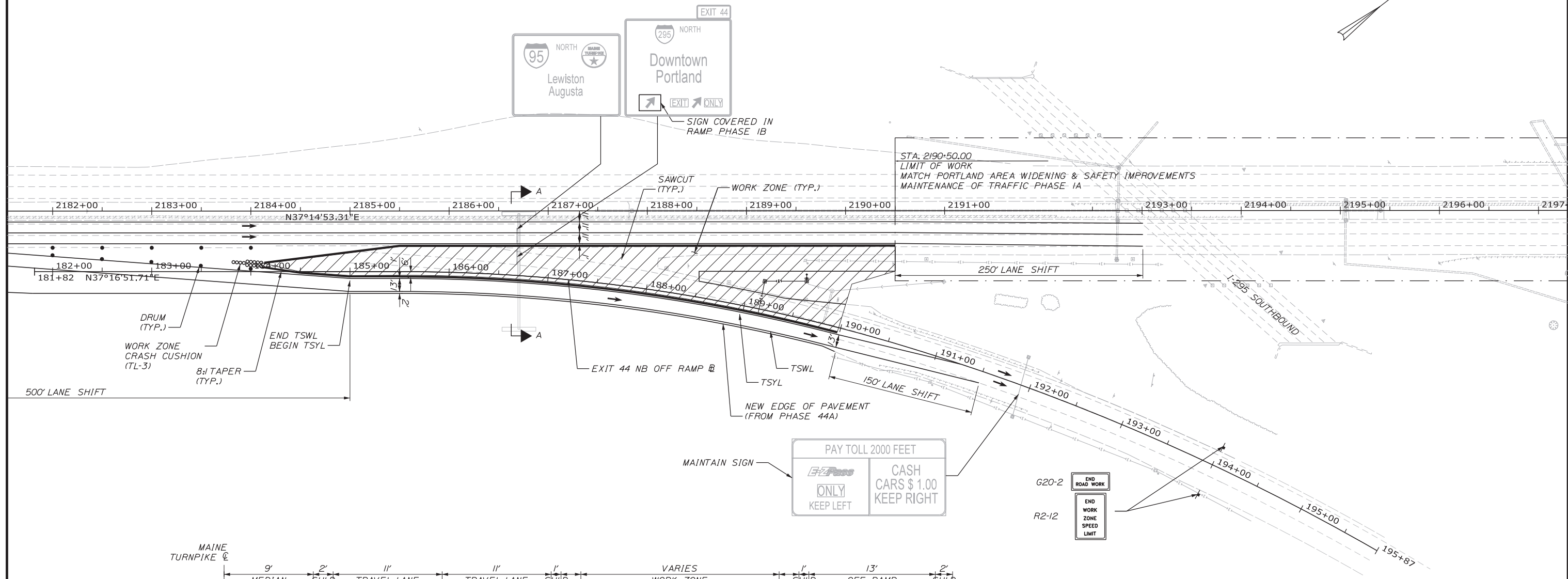
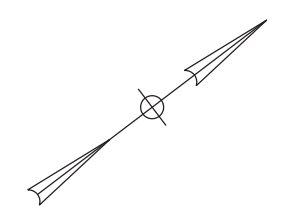
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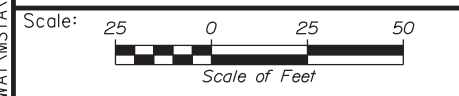
EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 PHASE 44B
 MAINTENANCE OF TRAFFIC PLAN 2 OF 3

SHEET NUMBER: MOT-5
 CONTRACT: 2020.03
 A 10 OF A76

Filename: ... \HIGHWAY\MSTA\MOT_PH2_02.dgn



LEGEND
 TSWL - TEMPORARY SOLID WHITE LINE
 TSYL - TEMPORARY SOLID YELLOW LINE
 → - TRAFFIC FLOW



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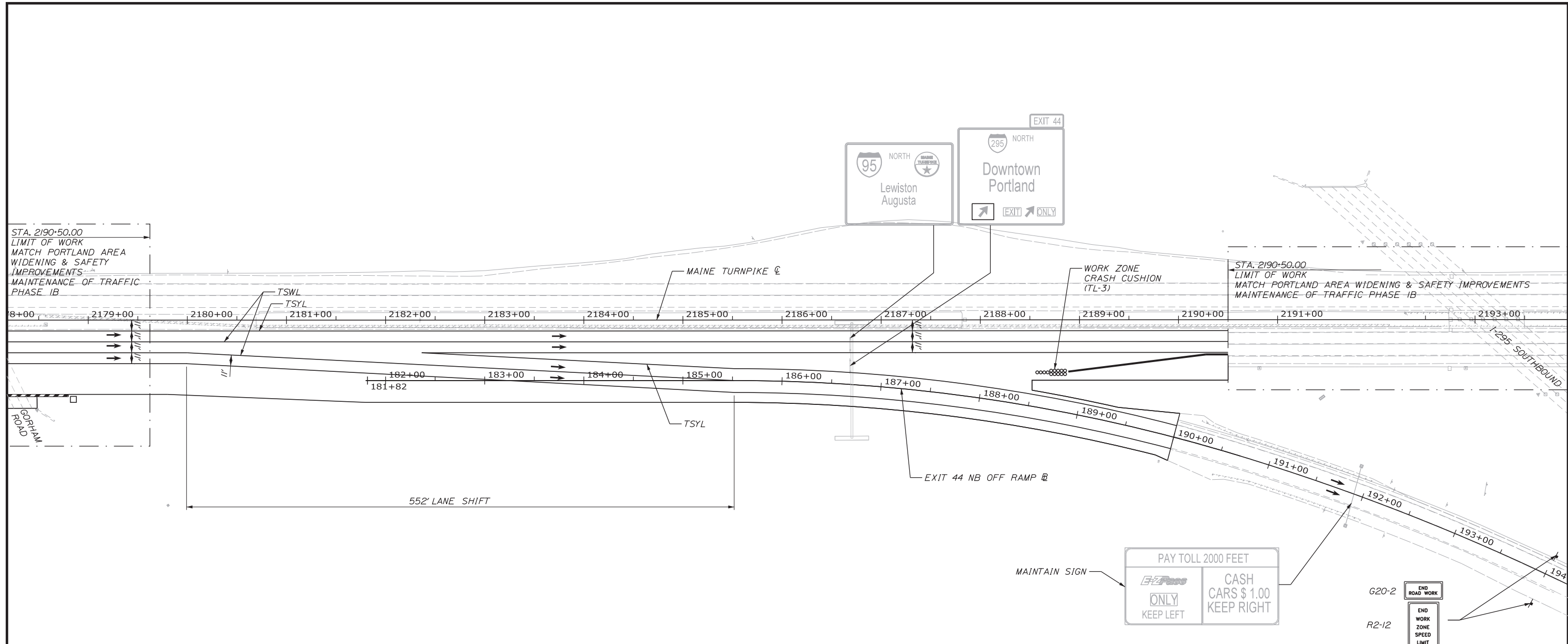
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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 PHASE 44B
 MAINTENANCE OF TRAFFIC PLAN 3 OF 3

SHEET NUMBER: MOT-6
 CONTRACT: 2020.03
 A 11 OF A76

Filename: ...HIGHWAY\MSTA\MOT_PH2_03.dgn



- NOTES:
- CONTRACTOR SHALL MAINTAIN EXISTING OVERHEAD SIGNS ON GORHAM ROAD BRIDGE.
 - CONTRACTOR MAY UTILIZE SHOULDER CLOSURES TO COMPLETE CONSTRUCTION OF EARTH RETAINING BARRIER SYSTEM WHICH SHALL BE COMPLETE PRIOR TO BEGINNING PHASE 2 OF THE PORTLAND AREA WIDENING AND SAFETY IMPROVEMENTS PROJECT.



Filename: ...MSTA_MOT_PAWPHIB_01.dgn

Scale: 25 0 25 50
Scale of Feet

No.	Revision	By	Date

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Drawn	EJB	02\20	In Charge of	GAE	02\20

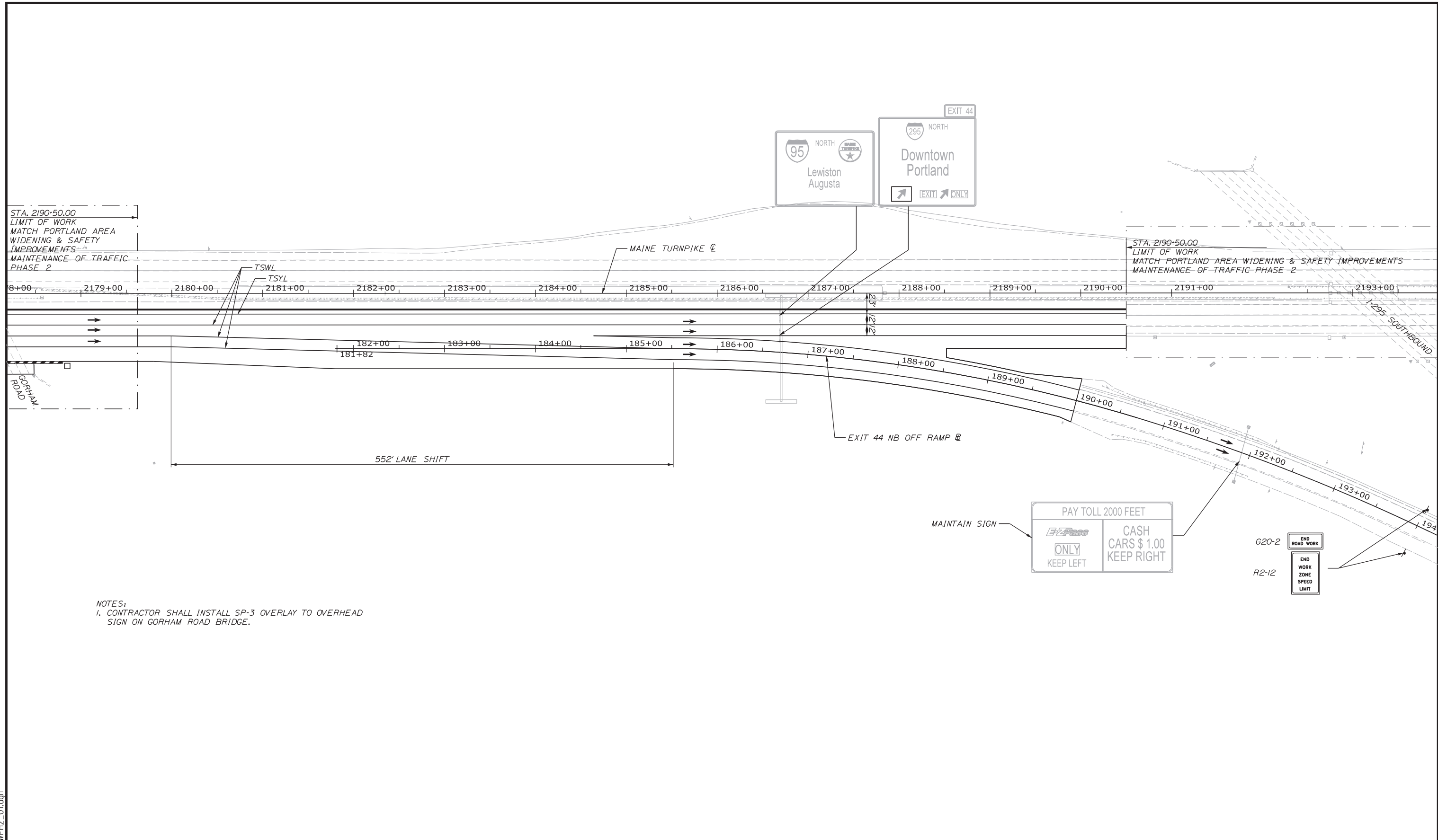
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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
PHASE 1B (PORTLAND AREA WIDENING)
MAINTENANCE OF TRAFFIC PLAN 1 OF 1

SHEET NUMBER: MOT-7
CONTRACT: 2020.03
A 12 OF A76



NOTES:
 1. CONTRACTOR SHALL INSTALL SP-3 OVERLAY TO OVERHEAD SIGN ON GORHAM ROAD BRIDGE.

Filename: ...MSTA_MOT_PAUPH2_01.dgn

Scale: 25 0 25 50
 Scale of Feet

No.	Revision	By	Date

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Drawn	EJB	02\20	In Charge of	GAE	02\20

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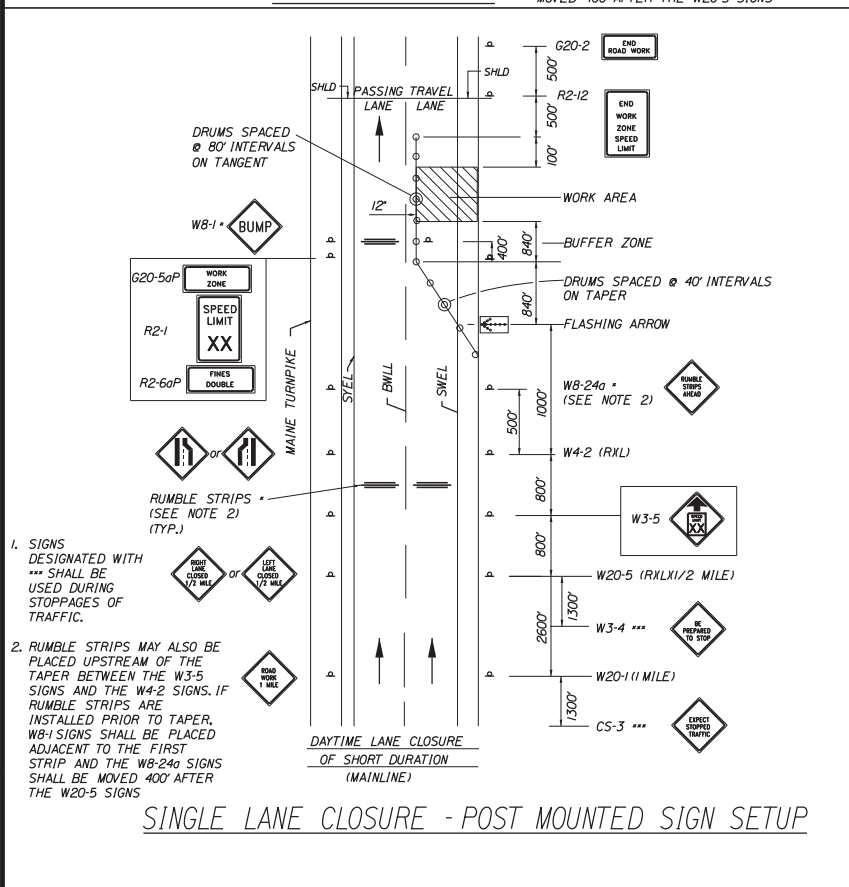
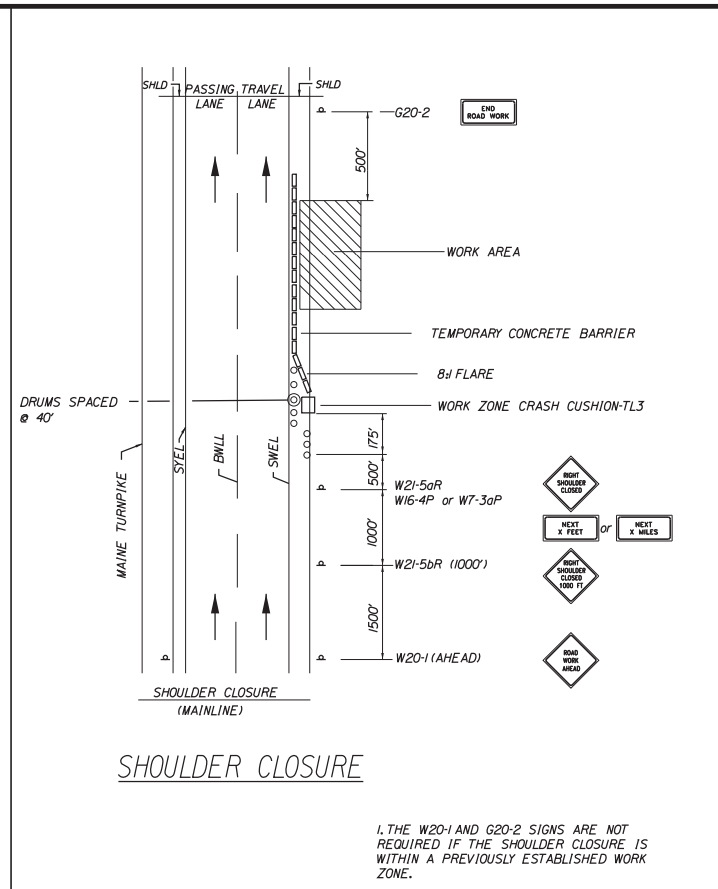
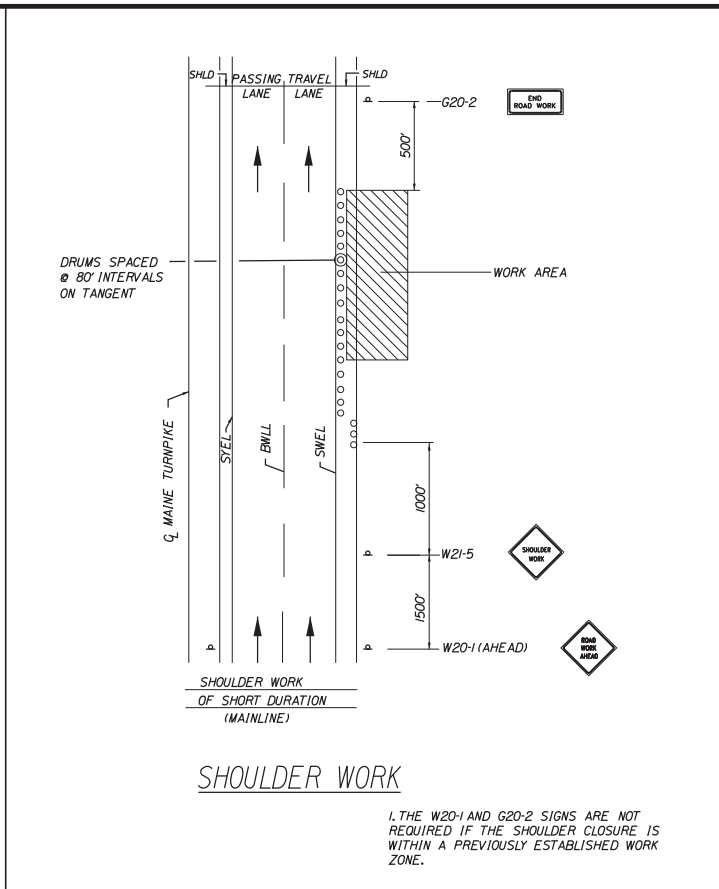
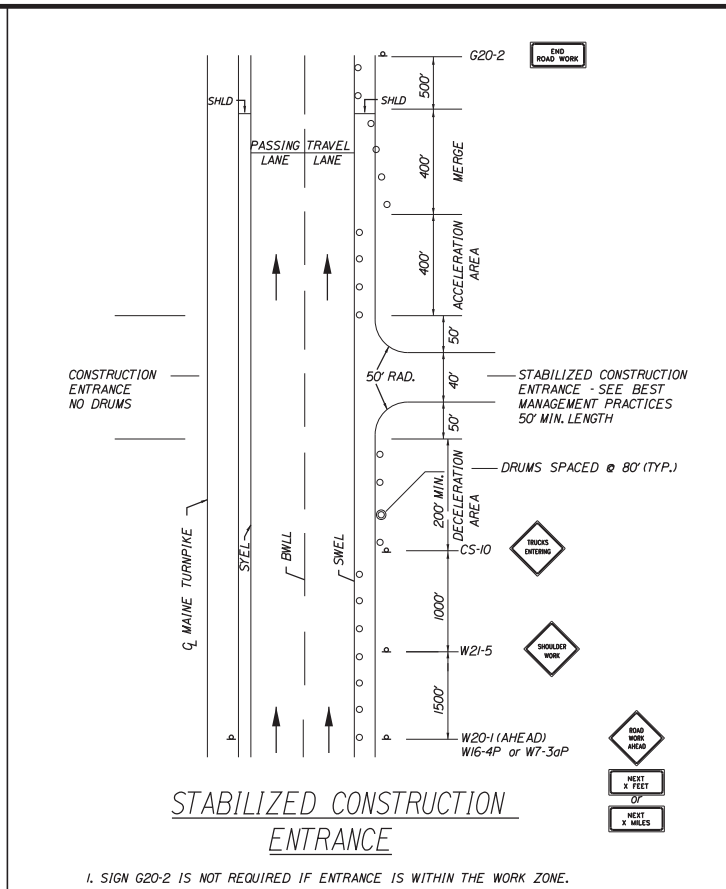
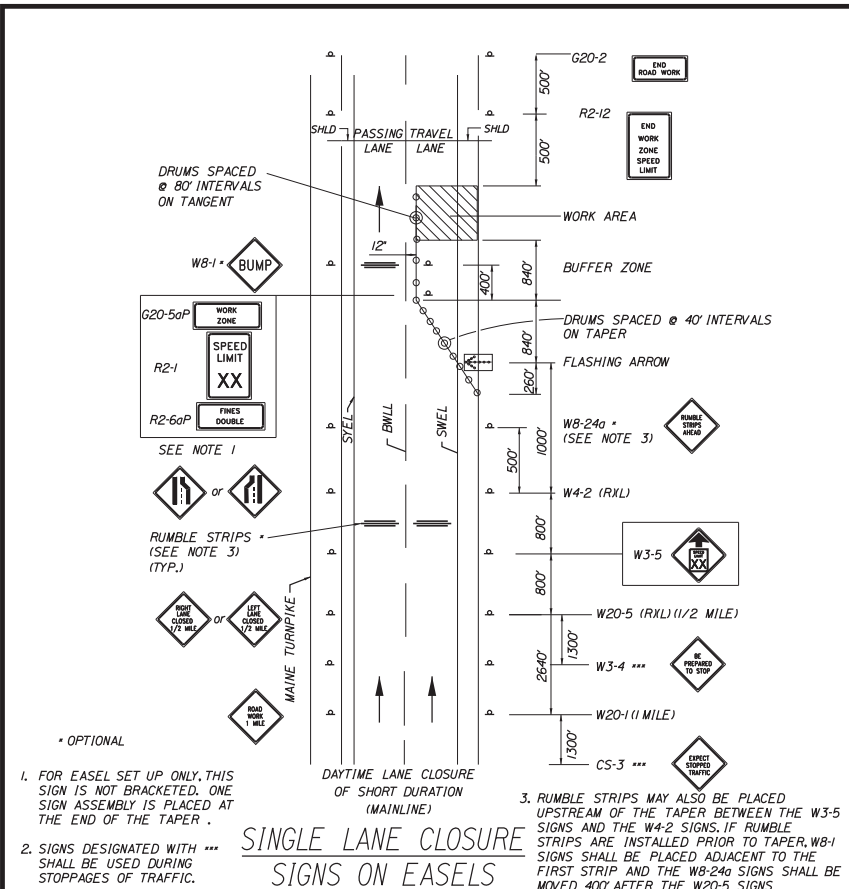
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 PHASE 2 (PORTLAND AREA WIDENING)
 MAINTENANCE OF TRAFFIC PLAN 1 OF 1

SHEET NUMBER: MOT-8
 CONTRACT: 2020.03
 A 13 OF A76

Date: 2/25/2020



ABBREVIATIONS FOR ALL M.O.T. PLANS
 TSWL = TEMPORARY SOLID WHITE EDGE LINE TSYL = TEMPORARY SOLID YELLOW EDGE LINE

GENERAL MAINTENANCE OF TRAFFIC NOTES:

- ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- 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.
- 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.
- 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 PAVEMENT MARKINGS.
- TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.681 - TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINES, YELLOW OR WHITE.
- TEMPORARY PAINTED PAVEMENT MARKINGS SHALL NOT BE INSTALLED ON NEW PAVEMENT; TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.
- EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.343 - WORK ZONE CRASH CUSHION - TL-3.
- ALL TEMPORARY BARRIER SHALL BE SET WITH A MINIMUM 8:1 TAPER. THE 8:1 TAPER BARRIER LENGTH IS DEPENDENT ON THE LOCATION OF THE BARRIER RELATIVE TO THE MAINE TURNPIKE SHOULDERS OR LANES.
- REMOVAL OF TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE SHALL BE DONE IN SUCH A MANNER TO REMOVE AS LITTLE PAVEMENT AS POSSIBLE.
- FOR SIGN DETAIL, SEE MAINTENANCE OF TRAFFIC SIGN SUMMARY SHEETS.
- "TRUCKS ENTERING" SIGN SHALL ALSO BE USED AT LOCATIONS WHERE TRUCKS ENTER THE WORK ZONE FROM THE TRAVEL LANE.
- TRUCK MOUNTED ATTENUATOR SHALL NOT BE LOCATED WITHIN THE BUFFER ZONE.
- TWO COMPLETE LANE CLOSURE EASEL MOUNTED SIGN PACKAGES (LEFT OR RIGHT LANE - TURNPIKE), INCLUDING WORK ZONE SPEED SIGNS, HAVE BEEN INCLUDED IN THE CONTRACT TO PERMIT SETUP AND REMOVAL OF THE PERMANENT WORK ZONE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- 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.
- ALL STOP, YIELD, SPEED LIMIT AND EXIT SIGNS MUST BE MOUNTED 5 FEET ABOVE THE PAVEMENT.
- WORK ZONE SPEED LIMIT ASSEMBLY MAY BE REPLACED WITH AN AUTOMATED WORK ZONE SPEED LIMIT SIGN (ITEM 652.451).

NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Scale:			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE			
Designed	JMB	02\20	Checked
Drawn	EJB	02\20	In Charge of
			By
			Date

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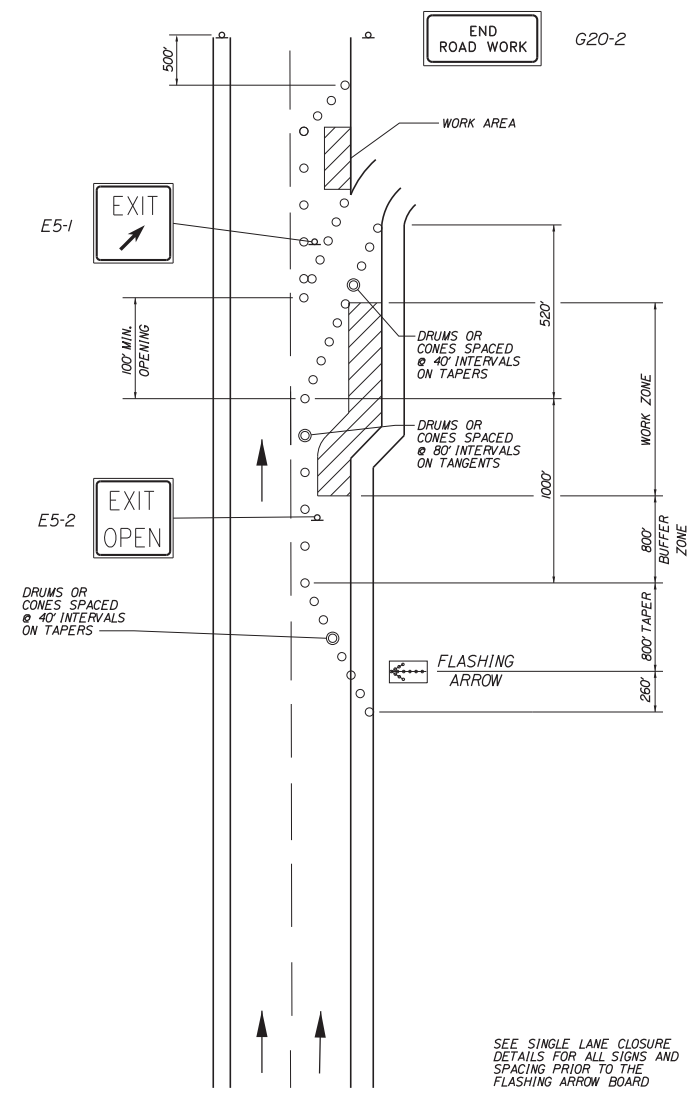
THE GOLD STAR MEMORIAL HIGHWAY

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 MOT DETAILS

SHEET NUMBER: MOT-9
 CONTRACT: 2020.03
 A 14 OF A76

Filename: ... \HIGHWAY\MSTA\... \Detail-MOT.dgn

Date: 2/25/2020



TRAVEL LANE CLOSURE AT AN EXIT RAMP

TEMPORARY LANE CLOSURES OF SHORT DURATION AT EXIT RAMPS (MAINLINE)

NOT TO SCALE

NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Filename: ... \HIGHWAY\MSTA\...Detail-MOT.dgn

Scale:			
No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 MOT DETAILS

SHEET NUMBER: MOT-10
 CONTRACT: 2020.03
 A 15 OF A76

Date: 2/25/2020

Filename: ...00\HIGHWAY\MSTA\MOT_SS.dgn

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
E5-1	48"	36"		GREEN	WHITE	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	12.00	12.00
E5-2	48"	36"		ORANGE	BLACK				1	12.00	12.00
G20-2	48"	24"		ORANGE	BLACK				4	8.00	32.00
G20-5aP	36"	24"		ORANGE	BLACK				4	6.00	24.00
R2-1 (50)	36"	48"		ORANGE	BLACK				4	12.00	48.00
R2-6aP	36"	24"		ORANGE	BLACK				4	6.00	24.00
R2-12	36"	54"		ORANGE	BLACK				4	13.5	54.00
W1-4cL	48"	48"		ORANGE	BLACK				2	16.00	32.00
W3-4	48"	48"		ORANGE	BLACK				4	16.00	64.00
W3-5 (50)	48"	48"		ORANGE	BLACK				4	16.00	64.00

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
W4-2L	48"	48"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			4	16.00	64.00
W4-2R	48"	48"		ORANGE	BLACK				4	16.00	64.00
W7-3aP (1 MILE)	36"	30"		ORANGE	BLACK				2	7.50	15.00
W8-1	48"	48"		ORANGE	BLACK				4	16.00	64.00
W8-9	48"	48"		ORANGE	BLACK				1	16.00	16.00
W8-24a	48"	48"		ORANGE	BLACK				4	16.00	64.00
W20-1 (AHEAD) (1 MILE)	48"	48"		ORANGE	BLACK				2 4	16.00	96.00
W20-5L (1/2 MILE)	48"	48"		ORANGE	BLACK				4	16.00	64.00
W20-5R (1/2 MILE)	48"	48"		ORANGE	BLACK				4	16.00	64.00
W21-5	48"	48"		ORANGE	BLACK				1	16.00	16.00

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

By	Date	By	Date
Designed	JMB 02\20	Checked	LEM 02\20
Drawn	EJB 02\20	In Charge of	GAE 02\20

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THE GOLD STAR MEMORIAL HIGHWAY






MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 MOT SIGN SUMMARY 1

SHEET NUMBER: MOT-11
 CONTRACT: 2020.03
 A 16 OF A76


Date: 2/25/2020

Filename: ...00\HIGHWAY\MSTA\MOT_SS.dgn

MUTCD NUMBER	SIZE OF SIGN		TEXT	COLOR		TEXT DIMENSIONS			NUMBER OF SIGNS REQUIRED	SIGN AREA (SQ. FEET)	
	WIDTH	HEIGHT		BACK-GROUND	LEGEND BORDER	LETTER HEIGHT	VERTICAL SPACING	SHIELD/ARROW		NOM. AREA	TOTAL AREA
W21-5aR	48"	48"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	16.00	16.00
W21-5bR (1000)	48"	48"		ORANGE	BLACK	↓	↓	↓	1	16.00	16.00
CS-3	48"	48"		ORANGE	BLACK	6" C 6" C 6" C	4.5" 4.5"	-	4	16.00	64.00
CS-10	48"	48"		ORANGE	BLACK	6" C 6" C	4.5"	-	1	16.00	16.00
CS-15	30"	30"		GREEN	N/A	-	-	-	3	INCIDENTAL TO OTHER CONSTRUCTION SIGNS	

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No.	Revision	By	Date

Designed by:



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 SCARBOROUGH, ME 04074
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THE GOLD STAR MEMORIAL HIGHWAY

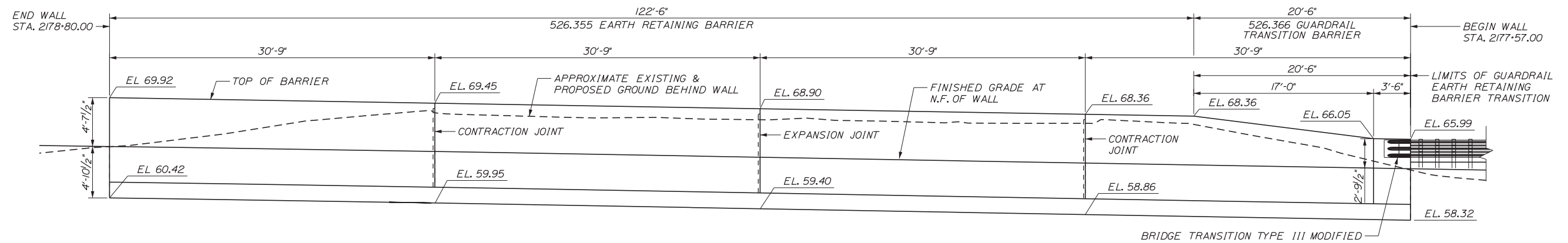
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 MOT SIGN SUMMARY 2

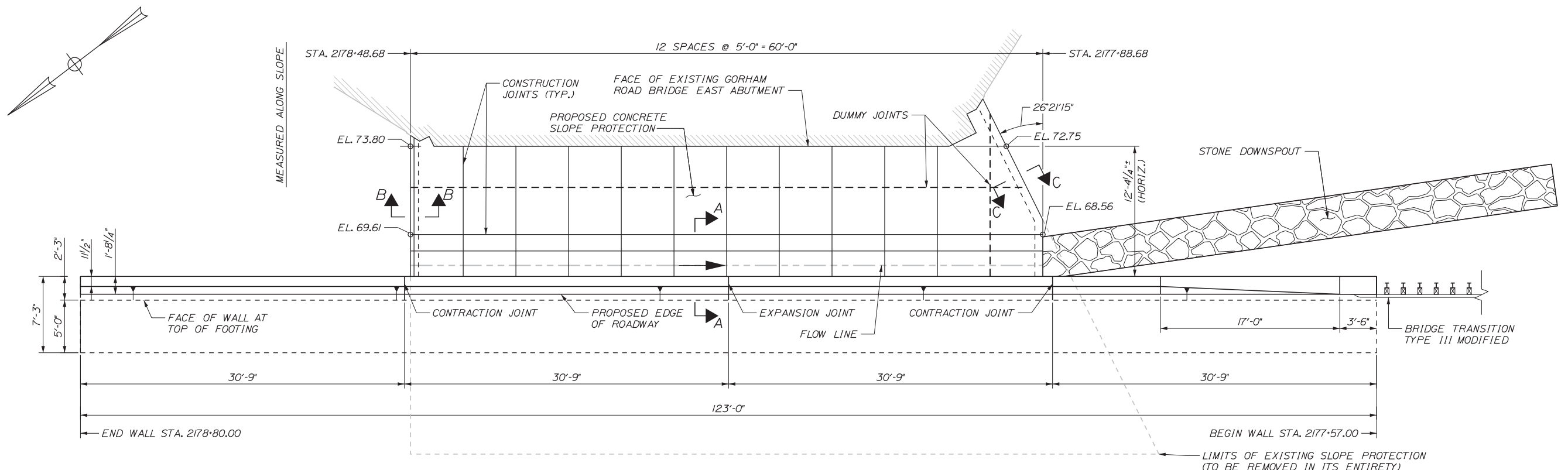
SHEET NUMBER: MOT-12
 CONTRACT: 2020.03
 A 17 OF A76

NOTES

1. SEE NOTES ON SHEET BARRIER DETAILS 2.



ELEVATION - 54" EARTH RETAINING BARRIER
3/16" = 1'-0"



PLAN - EARTH RETAINING BARRIER AND CONCRETE SLOPE PROTECTION
3/16" = 1'-0"

Date: 2/25/2020

Filename: ...MSTA...Detail-Barrier-01.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
	By	Date		By	Date
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TEL (207) 887-3448
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**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS

BARRIER DETAILS 1

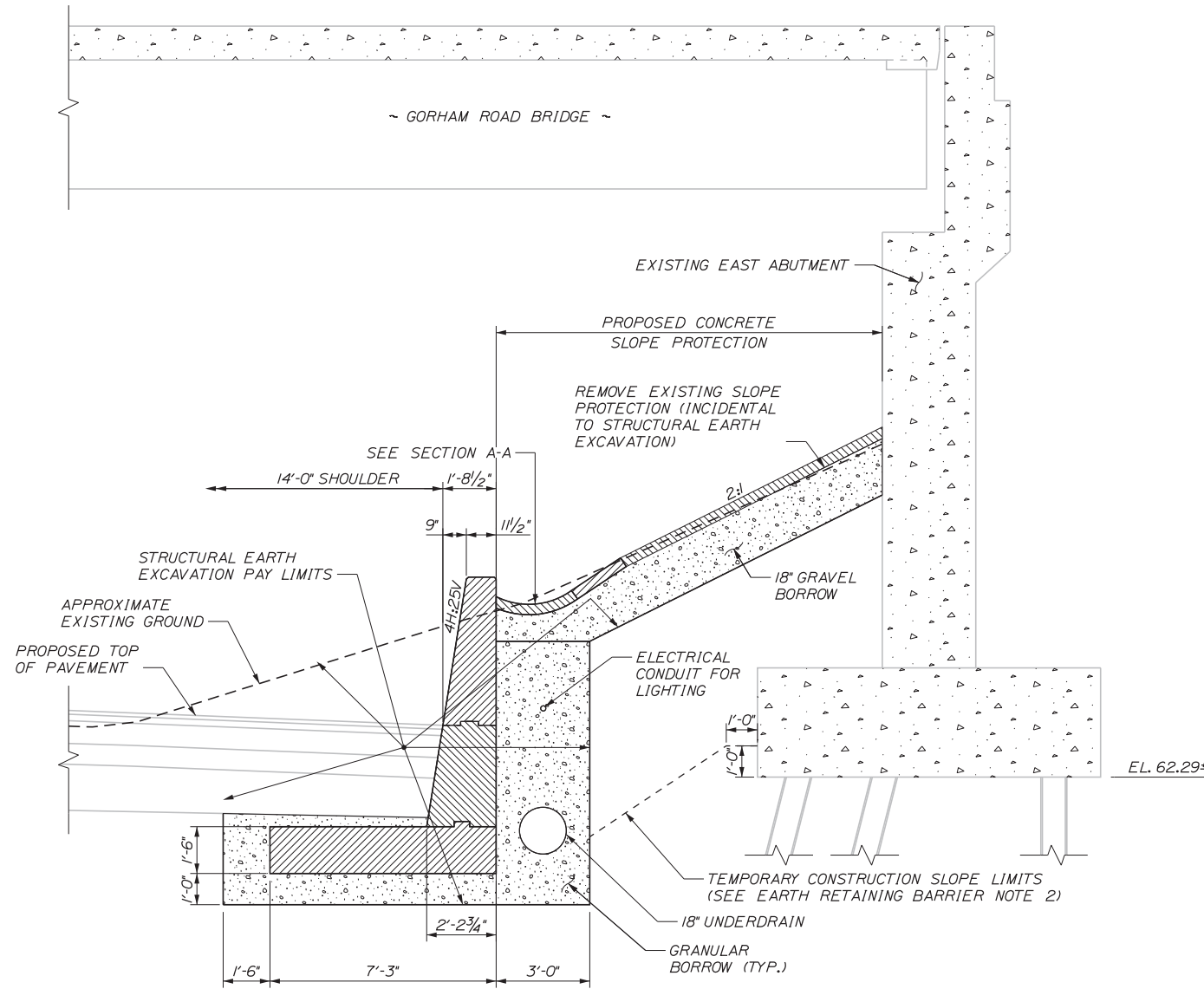
SHEET NUMBER: BD-1

CONTRACT: 2020.03

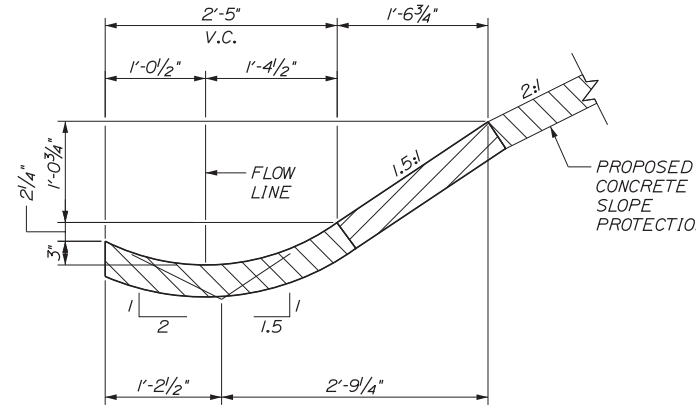
A 18 OF A76

Date: 2/25/2020

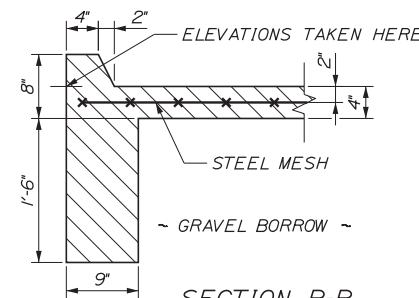
Filename: ...MSTA...Detail-Barrier-02.dgn



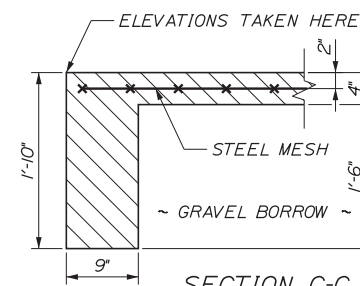
TYPICAL SECTION BELOW GORHAM ROAD BRIDGE
 STA. 2177+57.5 TO STA. 2178+80.50 RT.
 $\frac{3}{8}'' = 1'-0''$



SECTION A-A
 $1'' = 1'-0''$



SECTION B-B
 $1'' = 1'-0''$



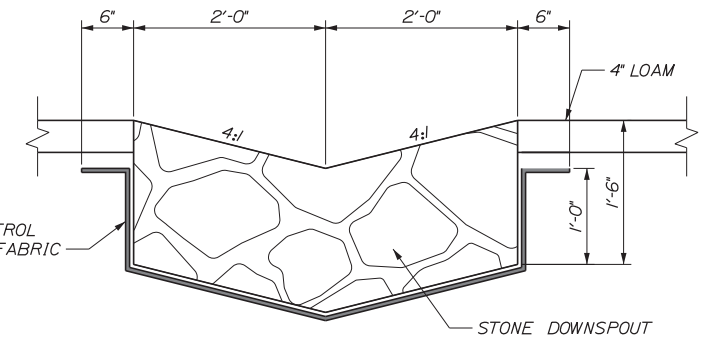
SECTION C-C
 $1'' = 1'-0''$

EARTH RETAINING BARRIER NOTES

1. REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER OF 2 INCHES IN THE WALLS AND 3 INCHES IN THE FOOTINGS UNLESS OTHERWISE NOTED.
2. ADDITIONAL EXCAVATION IN FRONT OF THE EXISTING GORHAM ROAD BRIDGE ABUTMENT (BEYOND THE STRUCTURAL EXCAVATION PAY LIMITS) MAY BE PERMITTED TO REDUCE THE SIZE AND EXTENTS OF THE TEMPORARY EARTH SUPPORT SYSTEMS REQUIRED FOR CONSTRUCTION OF THE PROPOSED BARRIER WALL. ANY SUCH EXCAVATIONS SHALL NOT EXTEND BEYOND THE TEMPORARY CONSTRUCTION SLOPE LIMITS SHOWN HERE WITHOUT A TEMPORARY EARTH SUPPORT SYSTEM IN PLACE. EXCAVATIONS MADE OUTSIDE OF THE STRUCTURAL EXCAVATION PAY LIMITS, AS WELL AS SUBSEQUENT BACKFILLING WITH GRANULAR BORROW BELOW THE PROPOSED 18" GRAVEL BORROW BEDDING MATERIAL, SHALL BE CONSIDERED INCIDENTAL TO ITEM 511.091, TEMPORARY EARTH SUPPORT SYSTEM.
3. ANY NECESSARY DEWATERING OF FOUNDATION EXCAVATIONS SHALL NOT BE PAID BUT SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE FOUNDATIONS.
4. COVER JOINTS WHERE WATERSTOPS ARE NOT REQUIRED IN ACCORDANCE WITH STANDARD DETAILS SECTION 502.
5. CONSTRUCTION, CONTRACTION, AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAILS SECTION 502.
6. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO THE EXPOSED SURFACE AREA OF BARRIER AND TO 1-FOOT BELOW PROPOSED FINISHED GRADE.

CONCRETE SLOPE PROTECTION NOTES

1. BREAK BOND AT CONSTRUCTION JOINTS WITH 2 LAYERS OF SMOOTH SURFACED ASPHALT ROLL ROOFING (701.08).
2. REINFORCE WITH 10 GAGE 6X6 STEEL MESH (OR EQUIVALENT), NOT TO PASS THROUGH CONSTRUCTION JOINTS.
3. DUMMY JOINTS SHALL BE MADE WITH A GROOVER TO A DEPTH OF 1/4-INCH.
4. EDGES OF CONSTRUCTION JOINTS SHALL BE FINISHED WITH A SIDEWALK EDGING TOOL TO A DEPTH OF 1/4-INCH.
5. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO THE EXPOSED SURFACE AREA OF CONCRETE SLOPE PROTECTION AND TO 1-FOOT BELOW PROPOSED FINISHED GRADE.
6. CONSTRUCTION OF STONE DOWNSPOUT TO DRAIN INTO HIGHWAY DITCH SHALL BE INCIDENTAL TO PAY ITEM 513.09.



STONE DOWNSPOUT
 $1'' = 1'-0''$

No.	Revision	By	Date

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 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

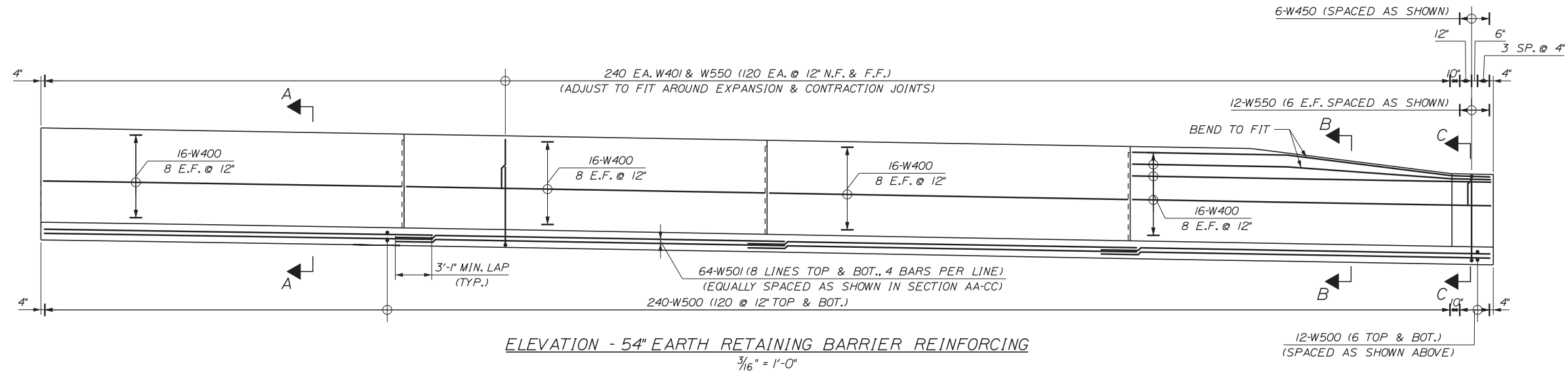
EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 BARRIER DETAILS 2

SHEET NUMBER: BD-2
 CONTRACT: 2020.03
 A 19 OF A76

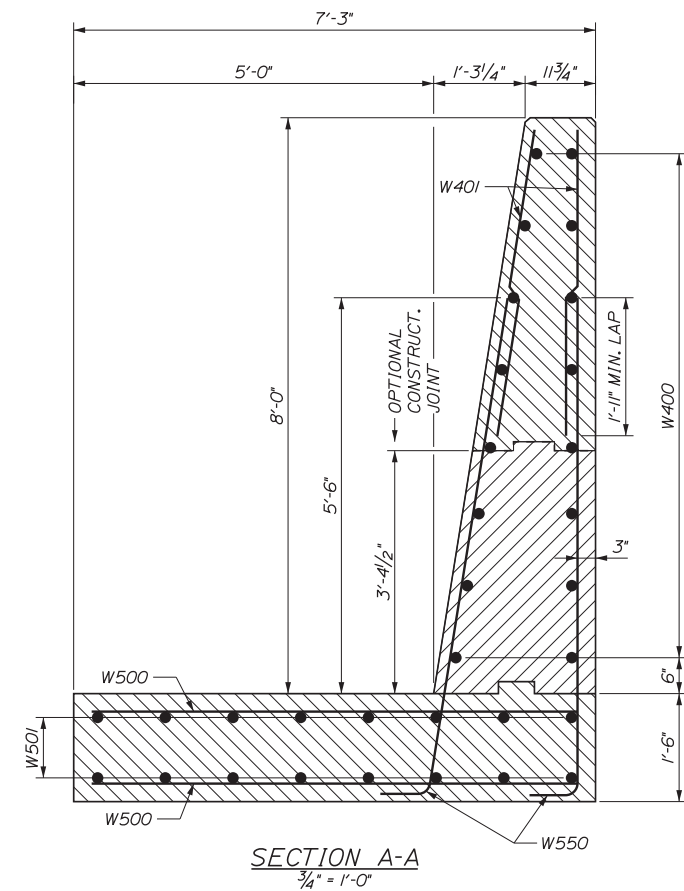
Date: 2/25/2020

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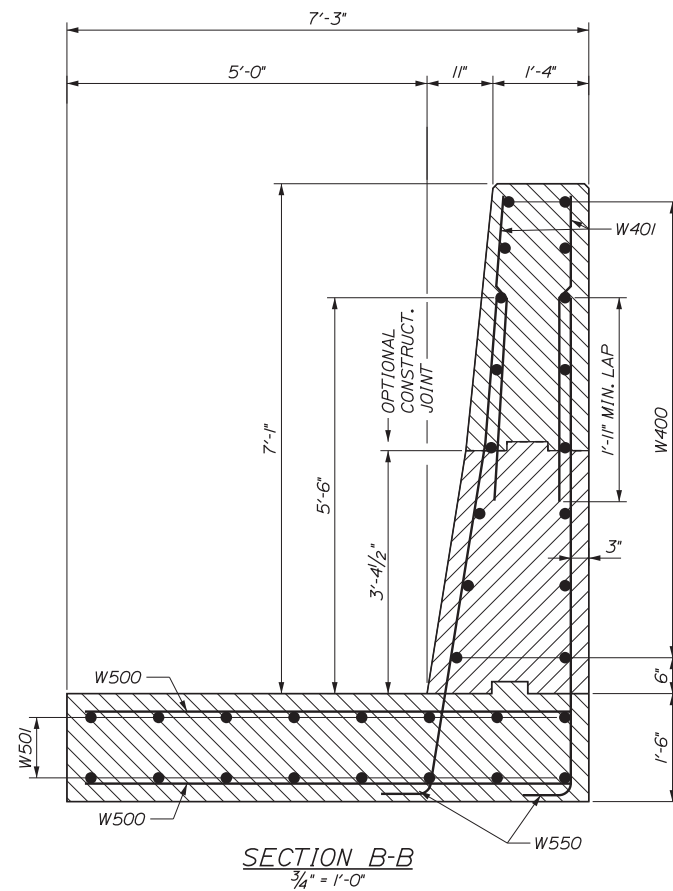
- SEE NOTES ON SHEET BARRIER DETAILS 2.
- ABBREVIATIONS: N.F. = NEAR FACE E.F. = EACH FACE
F.F. = FAR FACE BOT. = BOTTOM



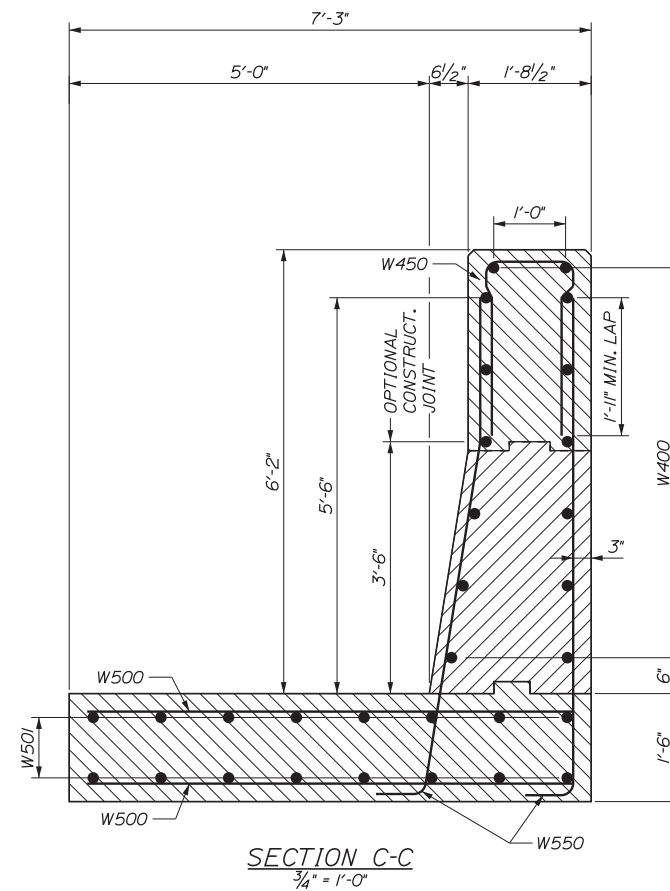
ELEVATION - 54" EARTH RETAINING BARRIER REINFORCING
3/16" = 1'-0"



SECTION A-A
3/4" = 1'-0"



SECTION B-B
3/4" = 1'-0"



SECTION C-C
3/4" = 1'-0"

CONCRETE BARRIER REINFORCING SCHEDULE

STRAIGHT BARS			
MARK	QTY.	LENGTH	LOCATION
W400	64	30'-4"	HORIZONTAL BARRIER WALL
W401	240	4'-3 1/2"	VERTICAL BARRIER WALL
W500	252	6'-9"	TRANSVERSE FOOTING
W501	64	33'-0"	LONGITUDINAL FOOTING

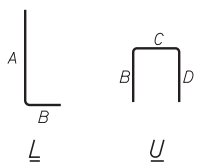
ALL DIMENSIONS ARE OUT-TO-OUT OF BAR.
BENDING DETAILS AND HOOKS SHALL CONFORM TO THE RECOMMENDATIONS OF THE CURRENT REVISION OF ACI STANDARD 315 AND ACI STANDARD 318.
REINFORCING BAR: ASTM A615/A615M, GRADE 60

BENT BARS								
MARK	QTY.	LENGTH	TYPE	A	B	C	D	LOCATION
W450	6	5'-11 1/2"	U	*	2'-4"	1'-5"	2'-4"	VERTICAL BARRIER WALL
W550	252	7'-10"	L	7'-0"	10"	*	*	VERTICAL FOOTING HOOK

GENERAL NOTES

- THE FIRST TWO DIGITS FOLLOWING THE LETTER(S) OF THE MARK INDICATE THE SIZE OF THE BAR:
MARK *A502* = BAR SIZE #5
MARK *P805* = BAR SIZE #8
MARK *S650* = BAR SIZE #6
- EACH CRANK BAR, TYPE B, MAY BE REPLACED BY TWO (2) STRAIGHT BARS (ONE TOP AND ONE BOTTOM) OF THE SAME BAR SIZE AS THE CRANK BAR, PAYMENT IN EITHER CASE SHALL BE BASED ON CRANK BARS AS SCHEDULED ON THE PLANS.
- ALL BARS SHALL BE EPOXY-COATED AND SHALL BE INCIDENTAL TO RELATED CONTRACT ITEMS.

TYPE - BENDING DIAGRAMS



Filename: ...MSTA...Detail-Barrier-03.dgn

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TEL (207) 887-3448
FAX (207) 883-3376

MAINE TURNPIKE

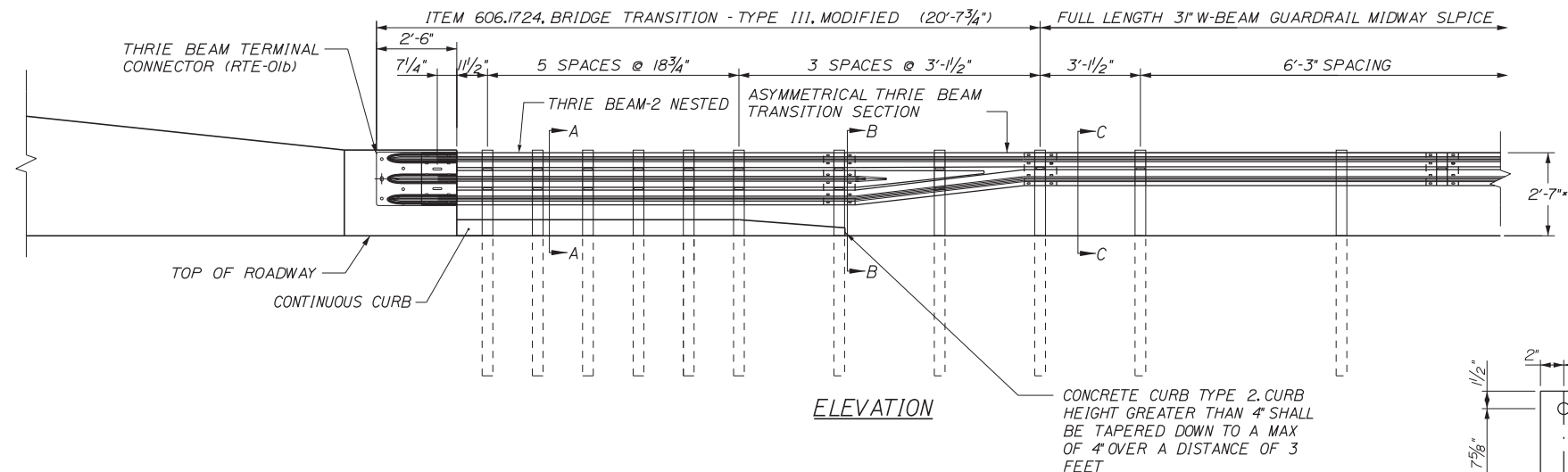
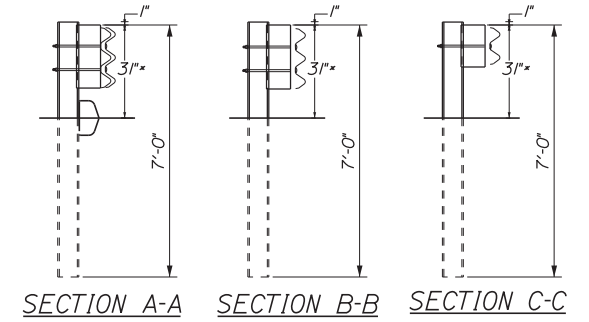
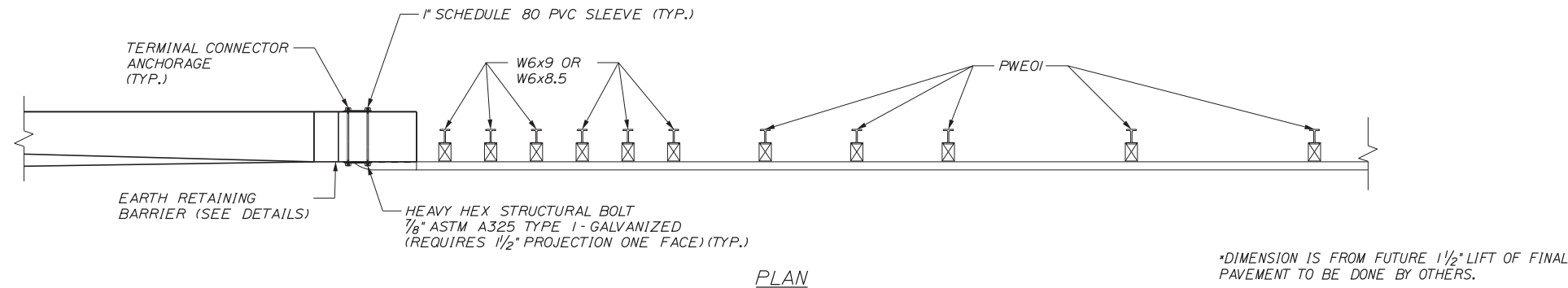
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
BARRIER DETAILS 3

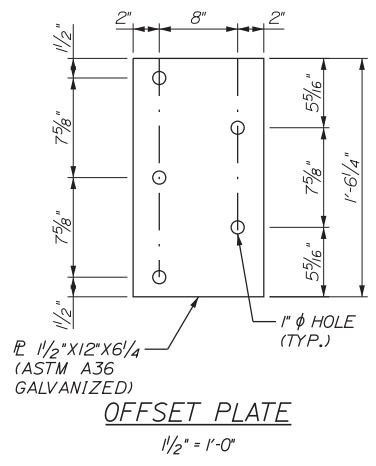
SHEET NUMBER: BD-3
CONTRACT: 2020.03
A20 OF A76

Date: 2/25/2020

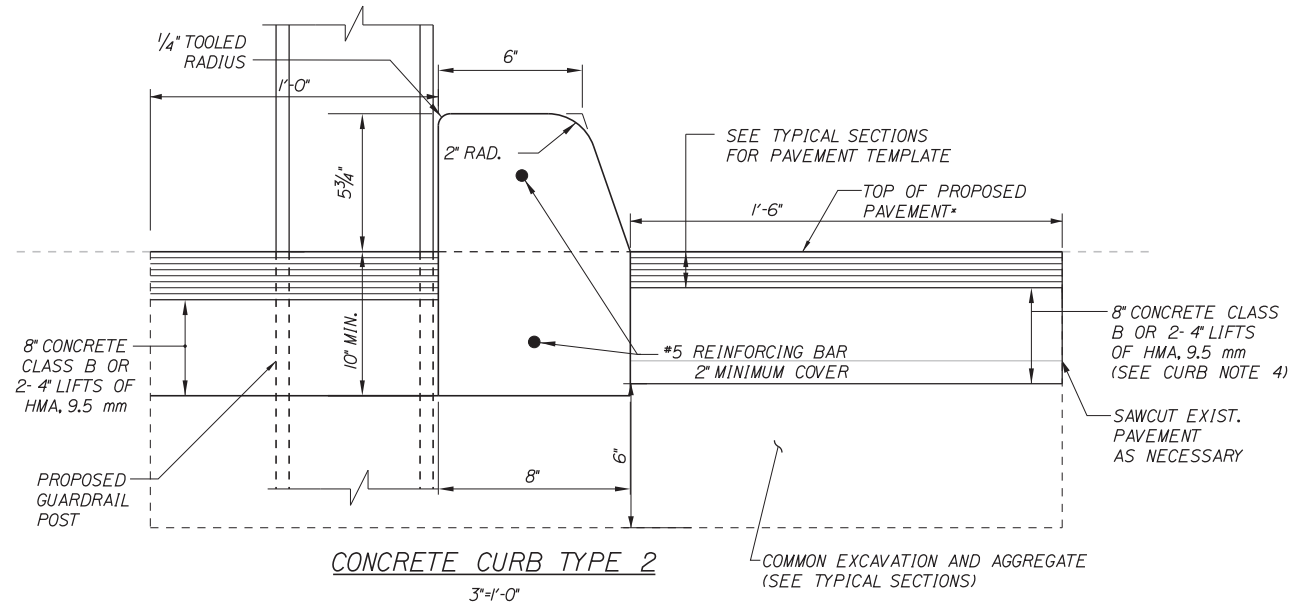


BRIDGE TRANSITION - TYPE III (ITEM 606.1724)
3/8\" = 1'-0"

- GENERAL NOTES:**
- ADDITIONAL HOLES MAY BE MADE IN THE THRIE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN HOLE. BURNING HOLES WILL NOT BE ALLOWED.
 - THRIE BEAM SHALL BE PLACED WITH THE COMPOSITE BLOCKOUT FACE IN FRONT OF OR DIRECTLY ABOVE THE CURB FACE.
 - RAIL ELEMENT SHALL MEET ALL REQUIREMENTS OF AASHTO M-180 EXCEPT AS MODIFIED ON THE PLANS. THE THRIE BEAM TRANSITION TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE LESS THAN 10 GAUGE.
 - AFTER INSTALLATION IS COMPLETE, UPSET THE THREAD ON THE ANCHOR BOLTS IN THREE PLACES AROUND EACH BOLT, AT THE JUNCTION OF THE NUT AND THE EXPOSED THREAD, WITH A CENTER PUNCH OR SIMILAR TOOL.
 - STANDARD BARRIER HARDWARE HAS BEEN USED TO DEVELOP THESE GUARDRAIL ATTACHMENTS. DESIGNATIONS PROVIDED IN PARENTHESIS RELATE TO STANDARD ELEMENTS DETAILED IN "A GUIDE TO STANDARDIZED BARRIER RAIL HARDWARE," 1979, AASHTO-AGC-ARTBA JOINT COOPERATE COMMITTEE.
 - 1" HOLE IN CONCRETE SHALL BE FORMED BY A METHOD APPROVED BY THE ENGINEER.
 - GUARDRAIL HEIGHT SHALL BE ADJUSTED UNIFORMLY BETWEEN SECTION CALLOUTS.



- CURB NOTES:**
- CURBING SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS.
 - CONCRETE CURBS USED IN CONJUNCTION WITH THRIE-BEAM BRIDGE ATTACHMENT SHALL BE TYPE 2. SEE DETAILS THIS SHEET. CONCRETE CURBS SHALL BE SET TO FORM A CONTINUOUS GUTTERLINE WITHOUT ANY DRAINAGE OPENINGS.
 - CURB TRANSITION SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.
 - SAWCUTTING EXISTING PAVEMENT, CONCRETE FILL, AND PAVEMENT TO LIMITS SHOWN SHALL BE INCIDENTAL TO THE BRIDGE TRANSITION PAY ITEM.



NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Filename: ...MSTA\...Detail-Guardrail-01.dgn

Scale:

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

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SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

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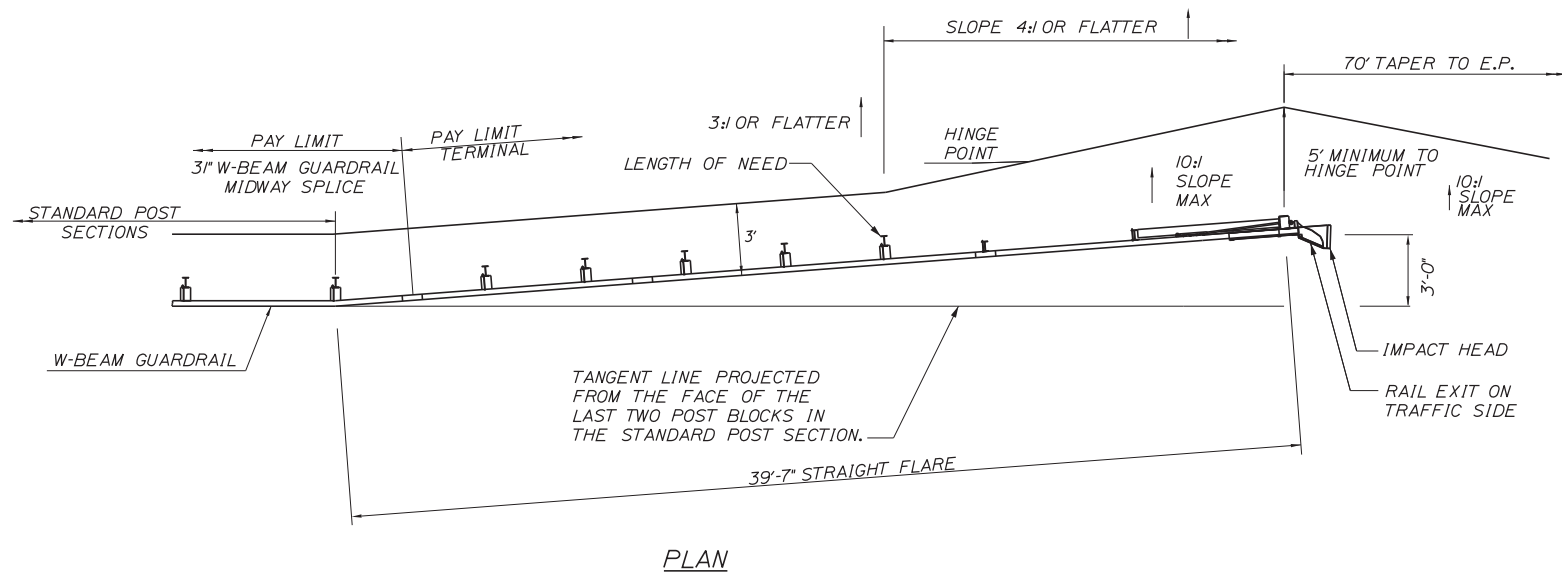
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

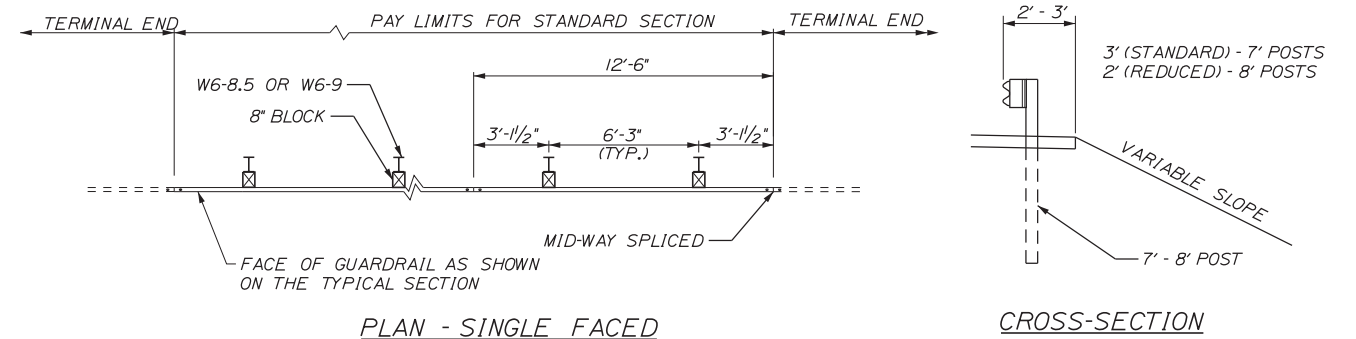
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
GUARDRAIL DETAILS 1

SHEET NUMBER: GD-1
CONTRACT: 2020.03
A 21 OF A76

Date: 2/25/2020

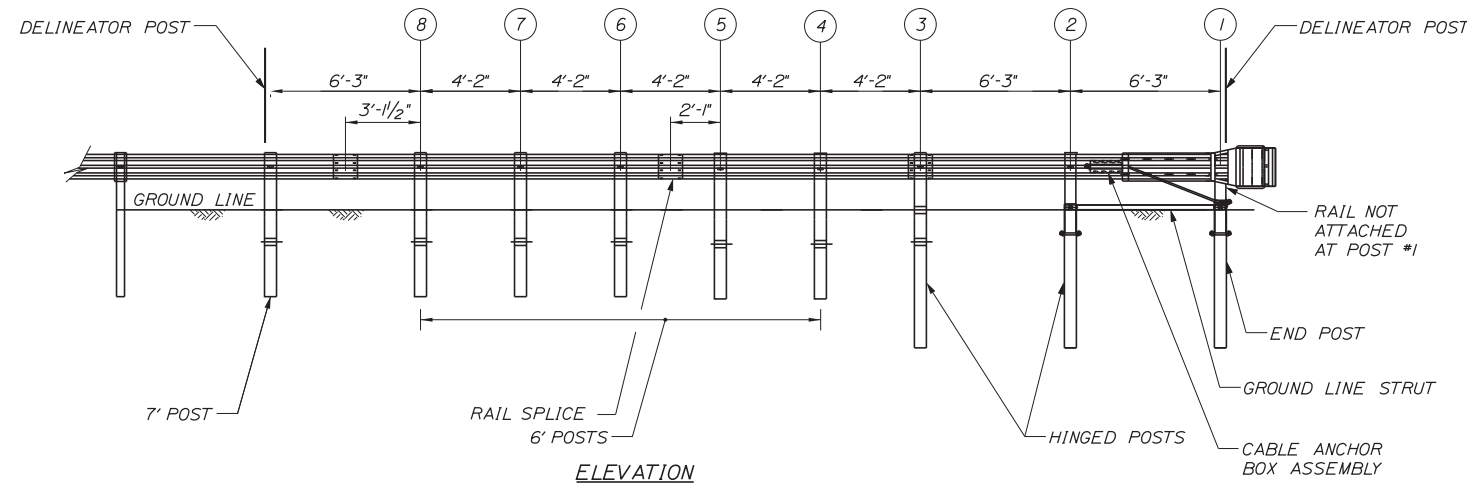


PLAN



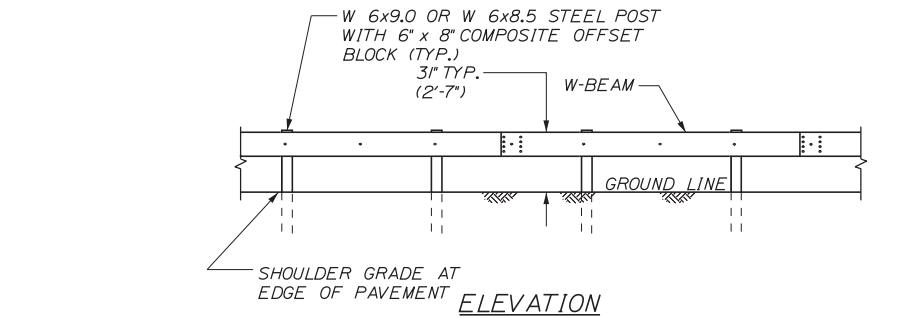
PLAN - SINGLE FACED

CROSS-SECTION

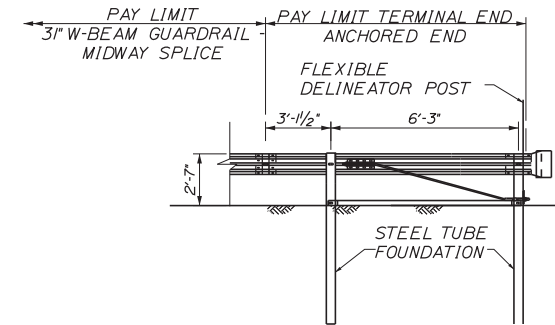


ELEVATION

3" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL
NOT TO SCALE



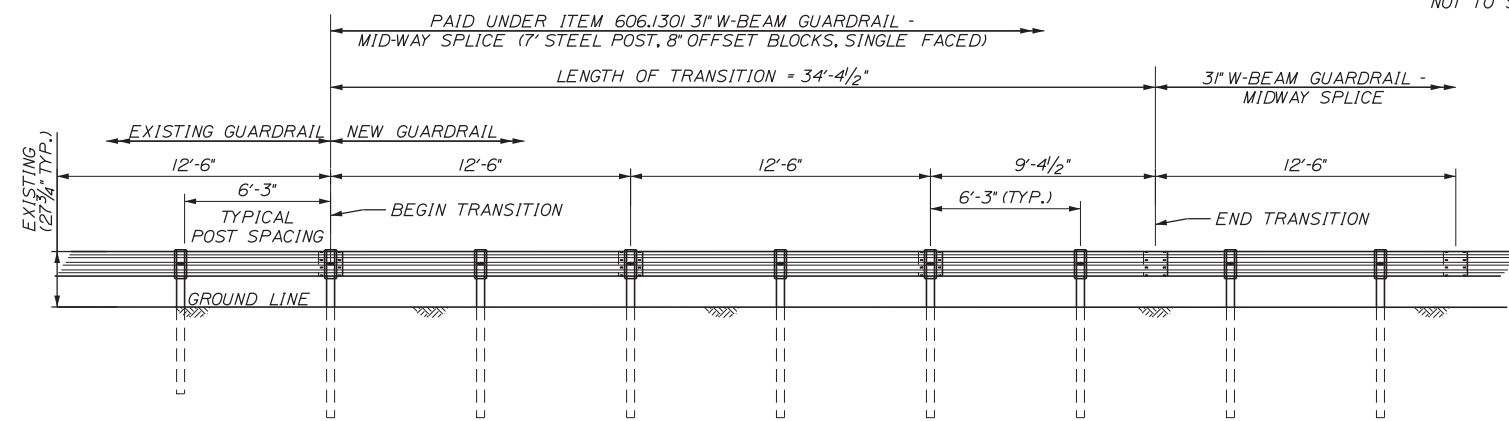
3" W-BEAM GUARDRAIL - MID-WAY SPLICE (8" OFFSET BLOCKS)
NOT TO SCALE



TERMINAL END - ANCHORED END - 3" W-BEAM GUARDRAIL
NOT TO SCALE

GENERAL GUARDRAIL INSTALLATION NOTES:

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 3'. GUARDRAIL HEIGHT SHALL BE MEASURED FROM AT GROUND ELEVATION ADJACENT TO EACH POST.
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.
6. TERMINAL UNIT SHALL BE MFLAT AND MASH CERTIFIED AS MANUFACTURED BY ROAD SYSTEMS INC.
7. SEE SPECIFICATIONS FOR REFLECTIVE SHEETING REQUIREMENTS.



TRANSITION FROM EXISTING GUARDRAIL TO 3" MID-WAY SPLICED GUARDRAIL
NOT TO SCALE

TRANSITION FROM EXISTING GUARDRAIL NOTES:

1. MAINTAIN STANDARD 1" CLEARANCE OF POST ABOVE PANEL THROUGHOUT THE ENTIRE LENGTH OF TRANSITION.
2. A MINIMUM OF ONE (1) 12'-6" PANEL SHALL BE PLACED BETWEEN THIS TRANSITION AND THE START OF ANY END TREATMENT OR ANCHORAGE.
3. ALL NEW POSTS SHALL BE 84" IN LENGTH UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.

NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Filename: ...MSTA...Detail-Guardrail-02.dgn

Scale:			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE			
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			By
			Date
			By
			Date

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TEL (207) 887-3448
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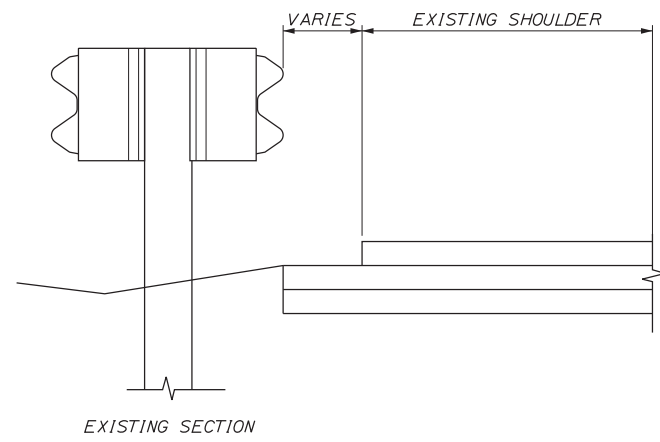
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

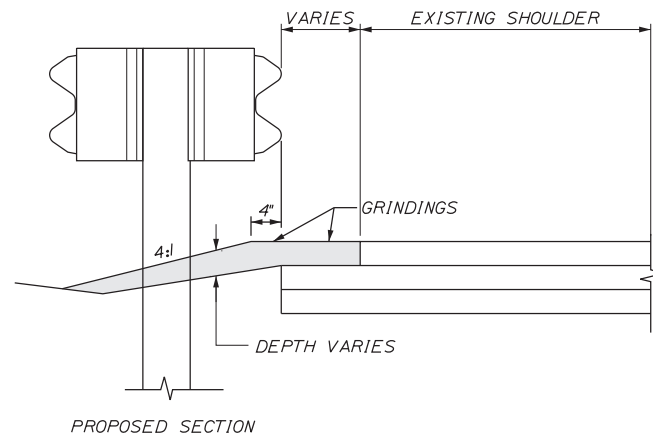
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
GUARDRAIL DETAILS 2

SHEET NUMBER: GD-2
CONTRACT: 2020.03
A22 OF A76

Date: 2/25/2020

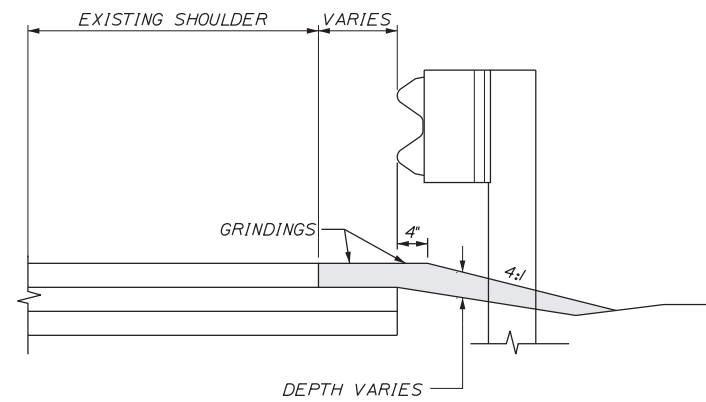


EXISTING SECTION

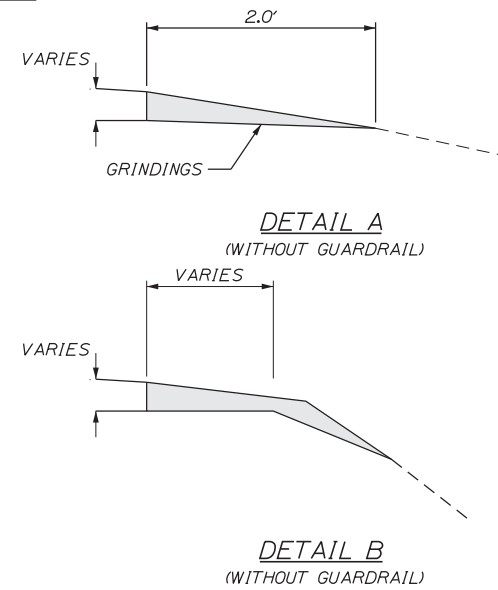


PROPOSED SECTION

BERM DROPOFF CORRECTION WITH GUARDRAIL
MEDIAN GUARDRAIL
N.T.S.



BERM DROPOFF CORRECTION WITH GUARDRAIL
RIGHT OUTSIDE OF SHOULDER
N.T.S.




DETAIL B
(WITHOUT GUARDRAIL)

NOTE: THIS SHEET ONLY APPLIES TO
APPENDIX A EXIT 44 NORTHBOUND
OFF RAMP IMPROVEMENTS

Filename: ... \HIGHWAY\MSTA\...Detail-Misc.dgn

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
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Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
MISCELLANEOUS DETAILS
BERM DROPOFF

SHEET NUMBER: DET-01
CONTRACT: 2020.03
A23 OF A76

DIMENSIONS FOR SLOPE OF 2:1

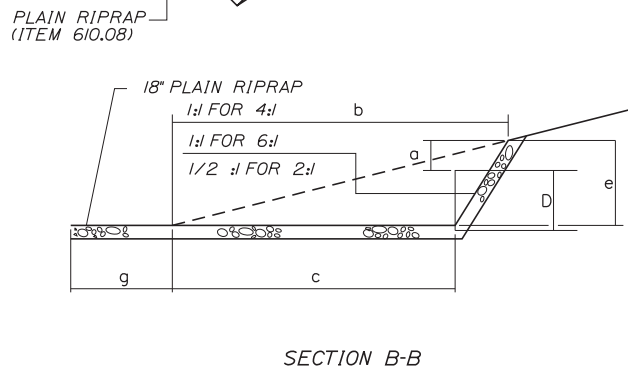
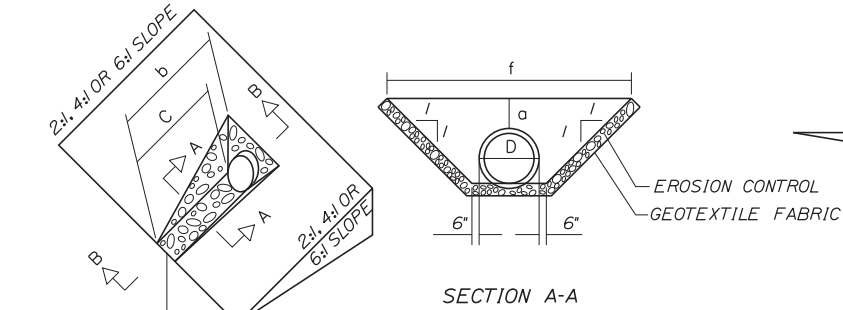
D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	4.00	3.00	2.00	6.00	1.00	1.50	1.30
15"	1.00	4.50	3.37	2.25	6.75	1.63	1.50	1.70
18"	1.00	5.00	3.75	2.50	7.50	2.25	1.50	2.09
21"	1.00	5.50	4.13	2.75	8.25	2.88	1.50	2.58
24"	1.00	6.00	4.50	3.00	9.00	3.50	1.50	3.12
30"	1.00	7.00	5.25	3.50	10.50	4.75	1.50	4.33
36"	1.00	8.00	6.00	4.00	12.00	6.00	1.50	5.75
42"	1.00	9.00	6.75	4.50	13.50	7.25	1.50	7.37
48"	1.00	10.00	7.50	5.00	15.00	8.50	1.50	9.18
54"	1.00	11.00	8.25	5.50	16.50	9.75	1.50	11.19
60"	1.00	12.00	9.00	6.00	18.00	11.00	1.50	13.40
66"	1.00	13.00	9.75	6.50	19.50	12.25	1.50	15.81
72"	1.00	14.00	10.50	7.00	21.00	13.50	1.50	18.41
84"	1.00	16.00	12.00	8.00	24.00	16.00	1.50	24.22

DIMENSIONS FOR SLOPE OF 4:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	1.00	8.00	6.00	2.00	6.00	0.00	1.50	2.20
15"	1.00	9.00	6.75	2.25	6.75	0.00	1.50	2.80
18"	1.00	10.00	7.50	2.50	7.50	0.00	1.50	3.40
21"	1.00	11.00	8.25	2.75	8.25	0.00	1.50	4.10
24"	1.00	12.00	9.00	3.00	9.00	0.00	1.50	4.86
30"	1.00	14.00	10.50	3.50	10.50	0.00	1.50	6.58
36"	1.00	16.00	12.00	4.00	12.00	0.00	1.50	8.56
42"	1.00	18.00	13.50	4.50	13.50	0.50	1.50	10.92
48"	1.00	20.00	15.00	5.00	15.00	1.00	1.50	13.57
54"	1.00	22.00	16.50	5.50	16.50	1.50	1.50	16.50
60"	1.00	24.00	18.00	6.00	18.00	2.00	1.50	19.72
66"	1.00	26.00	19.50	6.50	19.50	2.50	1.50	23.22
72"	1.00	28.00	21.00	7.00	21.00	3.00	1.50	27.01
84"	1.00	32.00	24.00	8.00	24.00	4.00	1.50	35.45

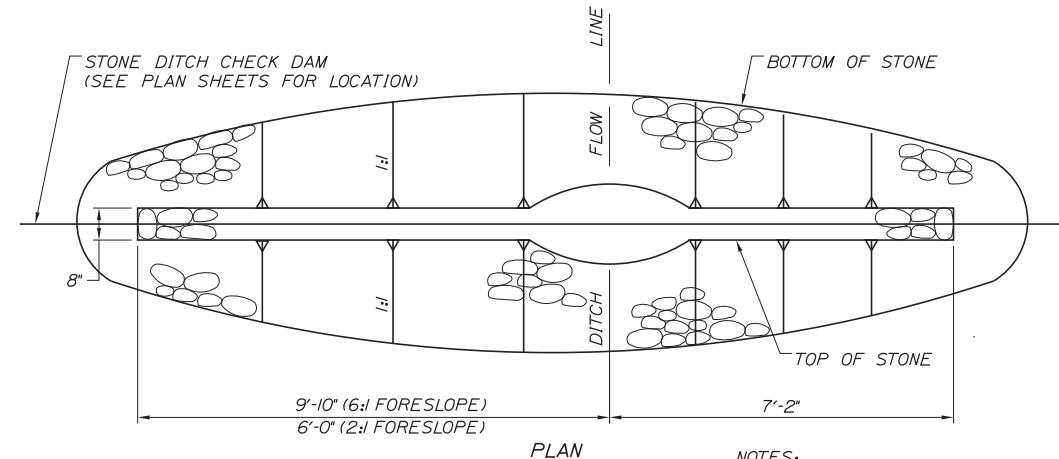
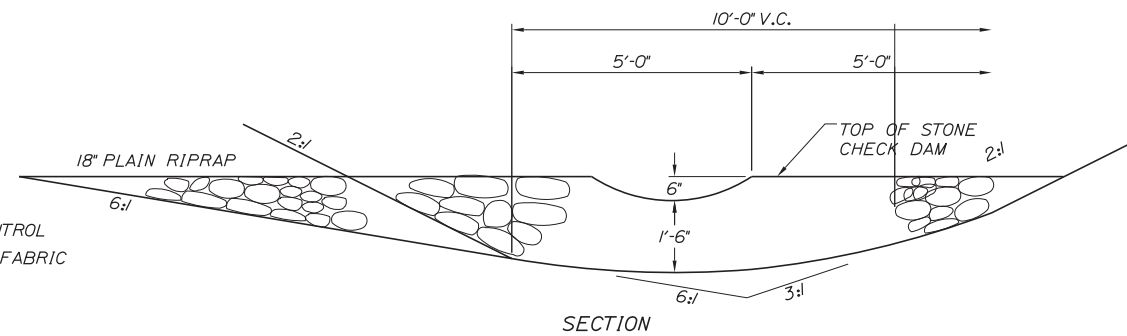
DIMENSIONS FOR SLOPE OF 6:1

D	a (FT)	b (FT)	c (FT)	e (FT)	f (FT)	g (FT)	STONE DEPTH (FT)	STONE (CY)
12"	0.50	9.00	7.50	1.50	4.50	0.00	1.50	2.30
15"	0.50	10.50	8.75	1.75	5.50	0.00	1.50	2.93
18"	0.50	12.00	10.00	2.00	6.50	0.00	1.50	3.57
21"	0.50	13.50	11.25	2.25	7.25	0.00	1.50	4.46
24"	0.50	15.00	12.50	2.50	8.00	0.00	1.50	5.44
30"	0.50	18.00	15.00	3.00	9.50	0.00	1.50	7.71
36"	0.50	21.00	17.50	3.50	11.00	0.00	1.50	10.37
42"	0.50	24.00	20.00	4.00	12.50	0.00	1.50	13.42
48"	0.50	27.00	22.50	4.50	14.00	0.00	1.50	16.87
54"	0.50	30.00	25.00	5.00	15.50	0.00	1.50	20.70
60"	0.50	33.00	27.50	5.50	17.00	0.00	1.50	24.93
66"	0.50	36.00	30.00	6.00	18.50	0.00	1.50	29.55
72"	0.50	39.00	32.50	6.50	20.00	0.00	1.50	34.56
84"	0.50	45.00	37.50	7.50	23.00	0.00	1.50	45.76



ROADWAY CULVERT END SLOPE TREATMENT
NOT TO SCALE

- NOTES:
1. THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.
2. STONE QUANTITIES ARE FOR ONE END OF THE PIPE.



FORESLOPE	BACKSLOPE	QUANTITY C.Y. STONE
6:1	3:1	2.5
2:1	3:1	2.0

STONE CHECK DAM
NOT TO SCALE

- NOTES:
1. STONE FOR TEMPORARY AND PERMANENT STONE CHECK DAMS SHALL MEET THE REQUIREMENTS OF MDOT SPECIFICATION 703.29, STONE DITCH PROTECTION.
2. TEMPORARY STONE CHECK DAMS WILL BE PAID FOR UNDER ITEM 610.1B1.

NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Date: 2/25/2020

Filename: ...MSTA...Detail-Drainage-01.dgn

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

By	Date	By	Date
Designed	JMB 02\20	Checked	LEM 02\20
Drawn	EJB 02\20	In Charge of	GAE 02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

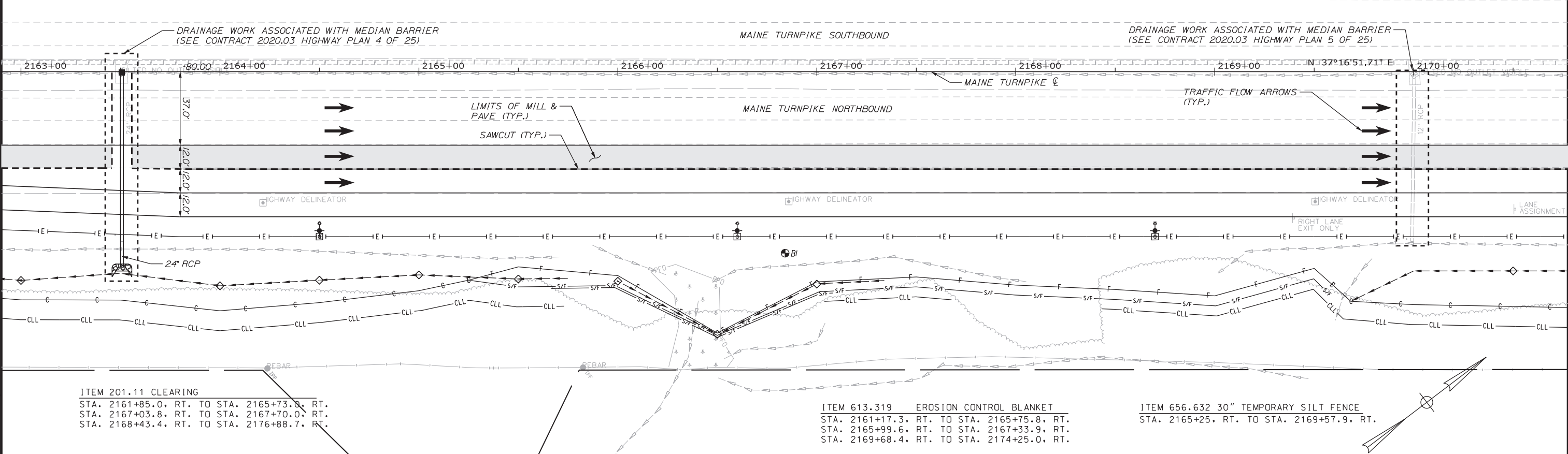
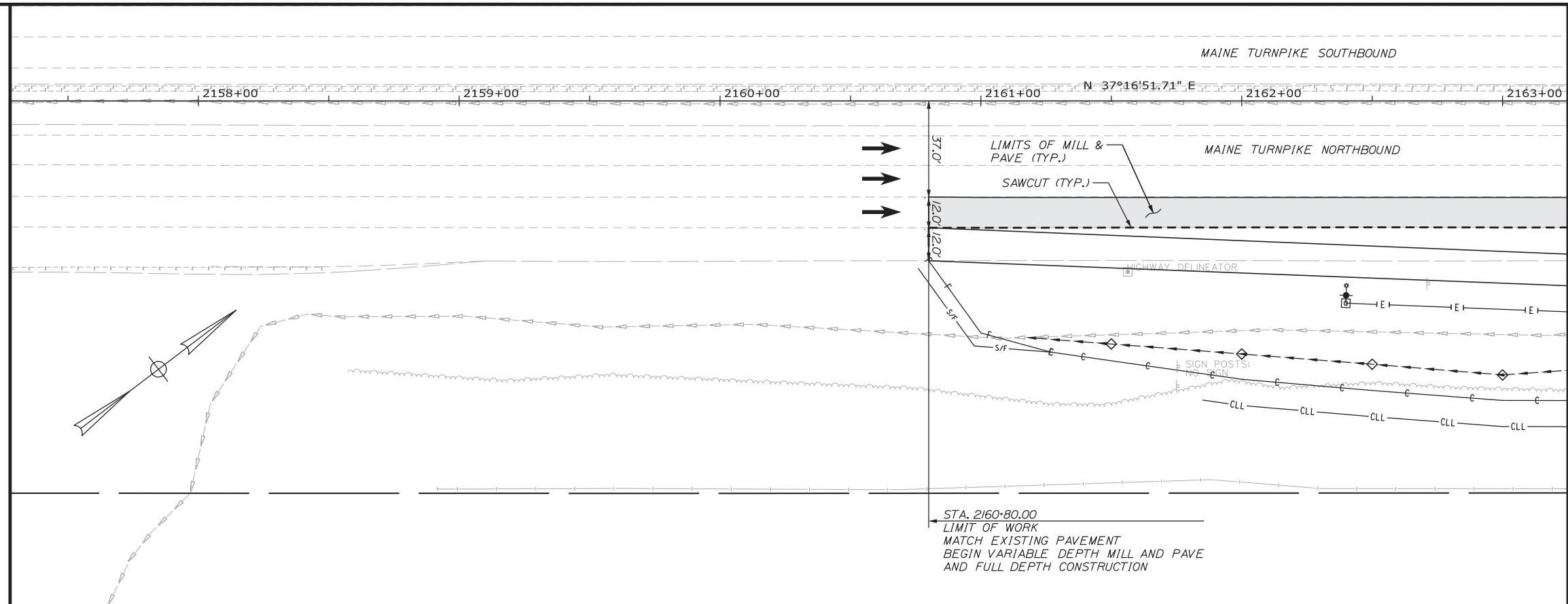
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
DRAINAGE DETAILS 1

SHEET NUMBER: DD-1
CONTRACT: 2020.03
A24 OF A76

Date: 2/25/2020

PLAN LEGEND

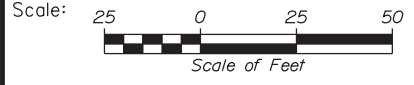
- R/W LINES EXISTING
- EXISTING CULVERT
- PROPOSED CULVERT
- EXISTING GUARDRAIL (BEAM)
- PROPOSED GUARDRAIL (BEAM)
- EXISTING WATERWAY
- TREE LINE
- CLEARING LIMIT LINE CLL
- SILT FENCE S/F
- PROPOSED RIPRAP
- PROPOSED TEMP. STONE CHECK DAM
- EXISTING PAVEMENT EDGE
- PROPOSED PAVEMENT EDGE
- EXISTING TRAVELWAY
- PROPOSED TRAVELWAY
- CATCH BASINS ■ EXISTING ■ PROPOSED
- PROPOSED DITCH
- EXISTING DITCH
- LIGHT POLES ○ EXISTING ○ PROPOSED
- EXISTING ELECTRICAL LINE I E I
- PROPOSED ELECTRICAL LINE I E I
- SIGNS (SINGLE POST) ■ EXISTING ■ PROPOSED
- SIGNS (DOUBLE POST) ■ EXISTING ■ PROPOSED
- PROPOSED-SLOPE CUT LINE C C C
- PROPOSED-SLOPE FILL LINE F F F



ITEM 201.11 CLEARING
 STA. 2161+85.0, RT. TO STA. 2165+73.0, RT.
 STA. 2167+03.8, RT. TO STA. 2167+70.0, RT.
 STA. 2168+43.4, RT. TO STA. 2176+88.7, RT.

ITEM 613.319 EROSION CONTROL BLANKET
 STA. 2161+17.3, RT. TO STA. 2165+75.8, RT.
 STA. 2165+99.6, RT. TO STA. 2167+33.9, RT.
 STA. 2169+68.4, RT. TO STA. 2174+25.0, RT.

ITEM 656.632 30" TEMPORARY SILT FENCE
 STA. 2165+25, RT. TO STA. 2169+57.9, RT.



Designed by:

Stantec

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
 FAX (207) 883-3376

MAINE TURNPIKE

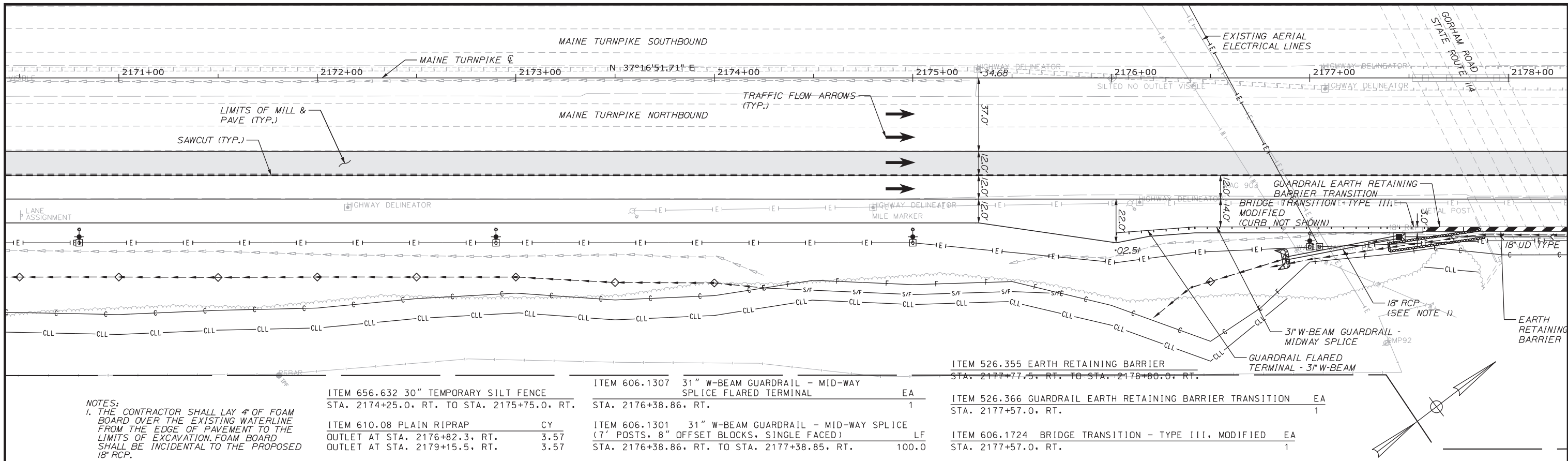
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
GENERAL PLAN 1

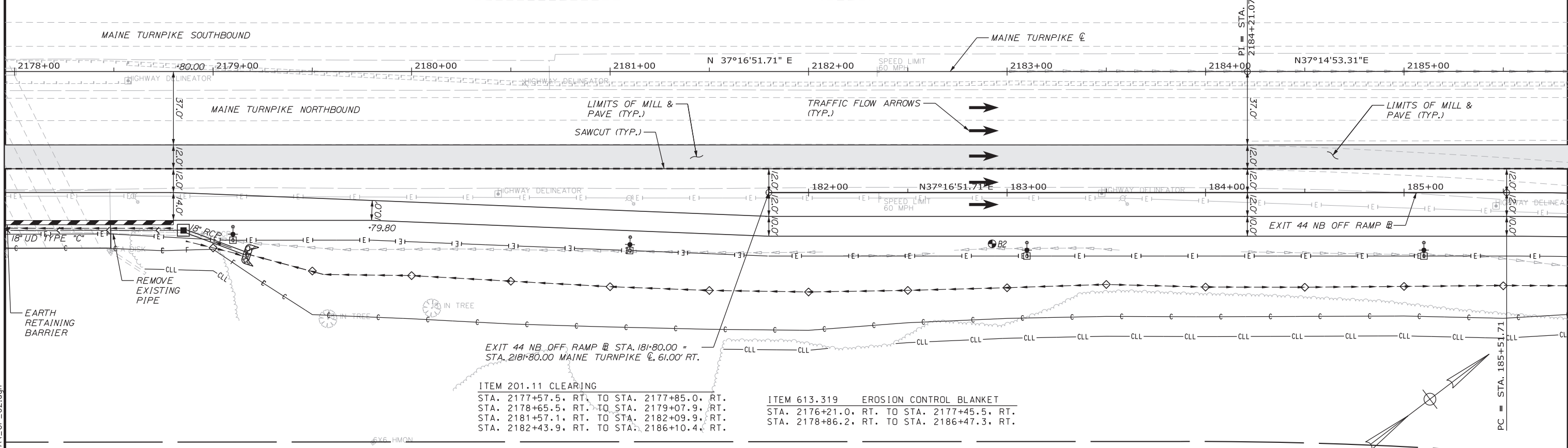
SHEET NUMBER: GP-1
 CONTRACT: 2020.03
 A25 OF A76

Filename: ...\\00\HIGHWAY\MSTA\GP_01.dgn



NOTES:
 1. THE CONTRACTOR SHALL LAY 4" OF FOAM BOARD OVER THE EXISTING WATERLINE FROM THE EDGE OF PAVEMENT TO THE LIMITS OF EXCAVATION. FOAM BOARD SHALL BE INCIDENTAL TO THE PROPOSED 18" RCP.

ITEM 656.632 30" TEMPORARY SILT FENCE STA. 2174+25.0, RT. TO STA. 2175+75.0, RT.	ITEM 606.1307 31" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL STA. 2176+38.86, RT.	EA 1	ITEM 526.355 EARTH RETAINING BARRIER STA. 2177+77.5, RT. TO STA. 2178+80.0, RT.	EA 1
ITEM 610.08 PLAIN RIPRAP OUTLET AT STA. 2176+82.3, RT. 3.57 OUTLET AT STA. 2179+15.5, RT. 3.57	ITEM 606.1301 31" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' POSTS, 8" OFFSET BLOCKS, SINGLE FACED) STA. 2176+38.86, RT. TO STA. 2177+38.85, RT.	LF 100.0	ITEM 526.366 GUARDRAIL EARTH RETAINING BARRIER TRANSITION STA. 2177+57.0, RT.	EA 1
			ITEM 606.1724 BRIDGE TRANSITION - TYPE III, MODIFIED STA. 2177+57.0, RT.	EA 1



ITEM 201.11 CLEARING STA. 2177+57.5, RT. TO STA. 2177+85.0, RT. STA. 2178+65.5, RT. TO STA. 2179+07.9, RT. STA. 2181+57.1, RT. TO STA. 2182+09.9, RT. STA. 2182+43.9, RT. TO STA. 2186+10.4, RT.	ITEM 613.319 EROSION CONTROL BLANKET STA. 2176+21.0, RT. TO STA. 2177+45.5, RT. STA. 2178+86.2, RT. TO STA. 2186+47.3, RT.
--	--

Filename: ...\\000\HIGHWAY\MSTA\GP_02.dgn

Scale: 25 0 25 50
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date	By	Date	
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
 FAX (207) 883-3376

THE GOLD STAR MEMORIAL HIGHWAY

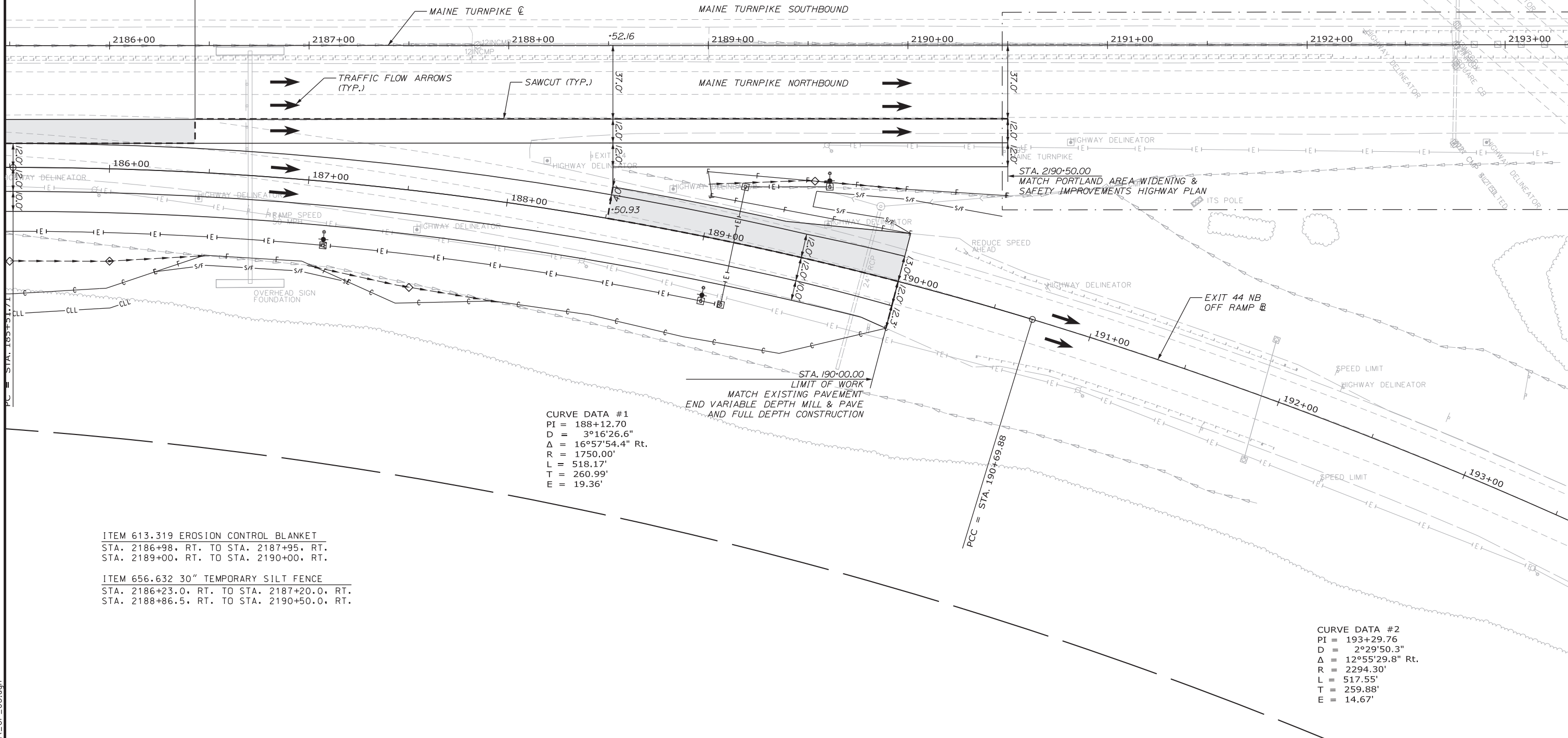
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

GENERAL PLAN 2

SHEET NUMBER: GP-2
 CONTRACT: 2020.03
 A26 OF A76

STA. 2186+42.00
END VARIABLE DEPTH MILL & PAVE
BEGIN FULL DEPTH CONSTRUCTION



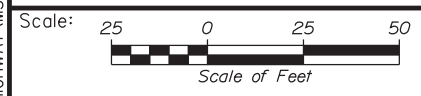
CURVE DATA #1
 PI = 188+12.70
 D = 3°16'26.6"
 Δ = 16°57'54.4" Rt.
 R = 1750.00'
 L = 518.17'
 T = 260.99'
 E = 19.36'

CURVE DATA #2
 PI = 193+29.76
 D = 2°29'50.3"
 Δ = 12°55'29.8" Rt.
 R = 2294.30'
 L = 517.55'
 T = 259.88'
 E = 14.67'

ITEM 613.319 EROSION CONTROL BLANKET
 STA. 2186+98, RT. TO STA. 2187+95, RT.
 STA. 2189+00, RT. TO STA. 2190+00, RT.

ITEM 656.632 30" TEMPORARY SILT FENCE
 STA. 2186+23.0, RT. TO STA. 2187+20.0, RT.
 STA. 2188+86.5, RT. TO STA. 2190+50.0, RT.

Filename: ...:\00.HIGHWAY\MSTA\GP_03.dgn



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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 GENERAL PLAN 3

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

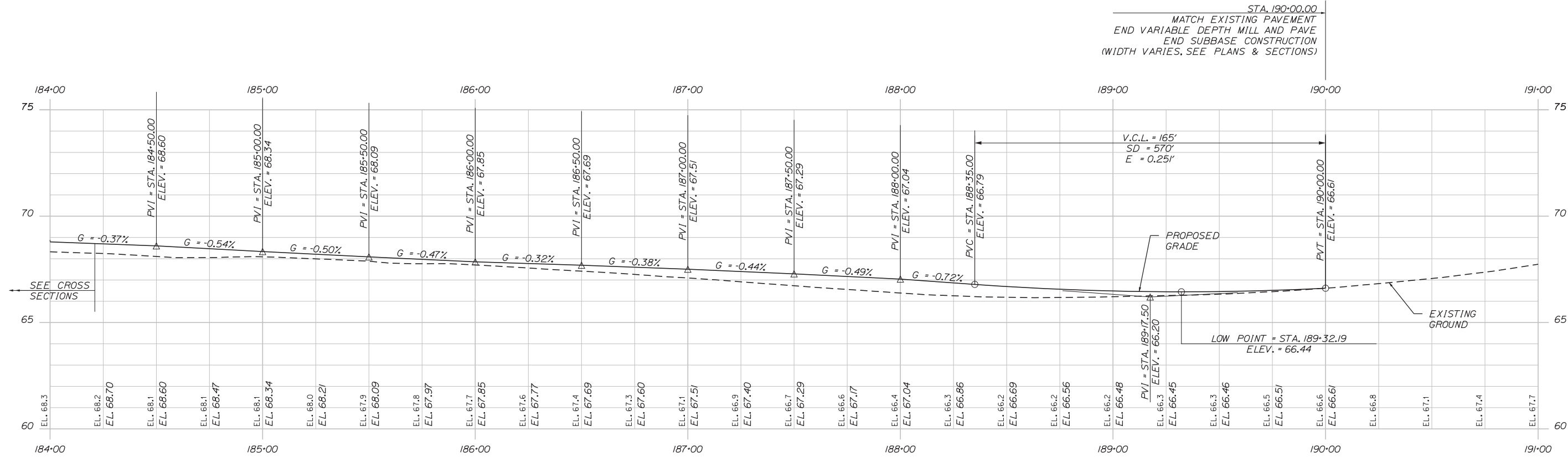
CONTRACT:2020.03

SHEET NUMBER: GP-3

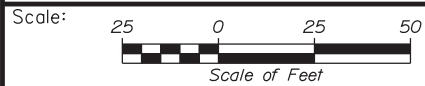
A27 OF A76

Date: 2/25/2020

Filename: ...00\HIGHWAY\MSTA\...Profile.dgn



PROFILE



Designed by:



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THE GOLD STAR
 MEMORIAL HIGHWAY

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS

PROFILE

No.	Revision	By	Date

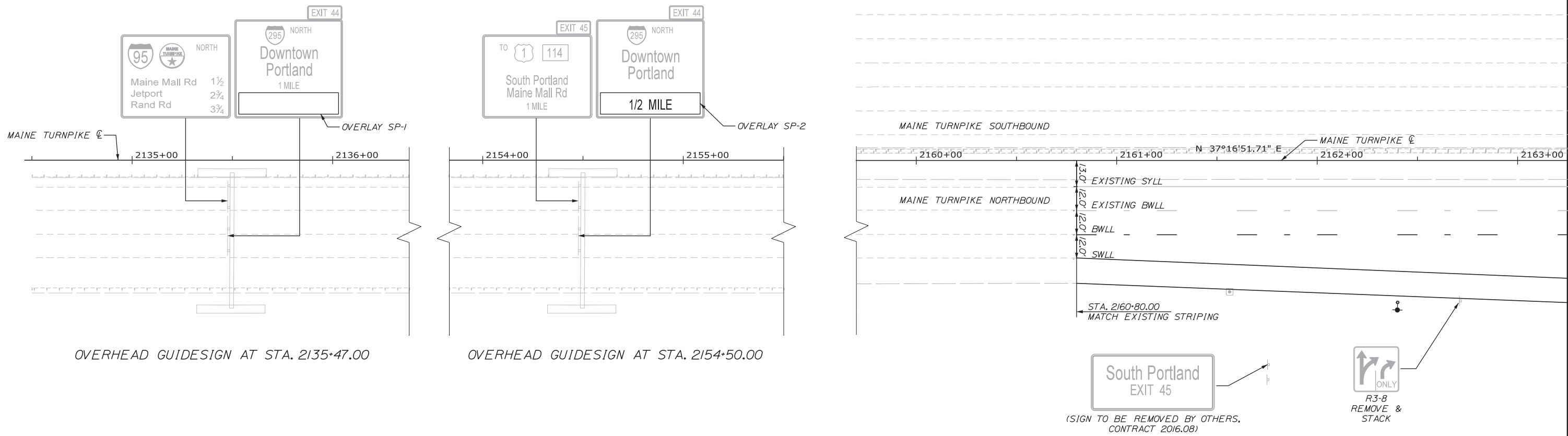
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

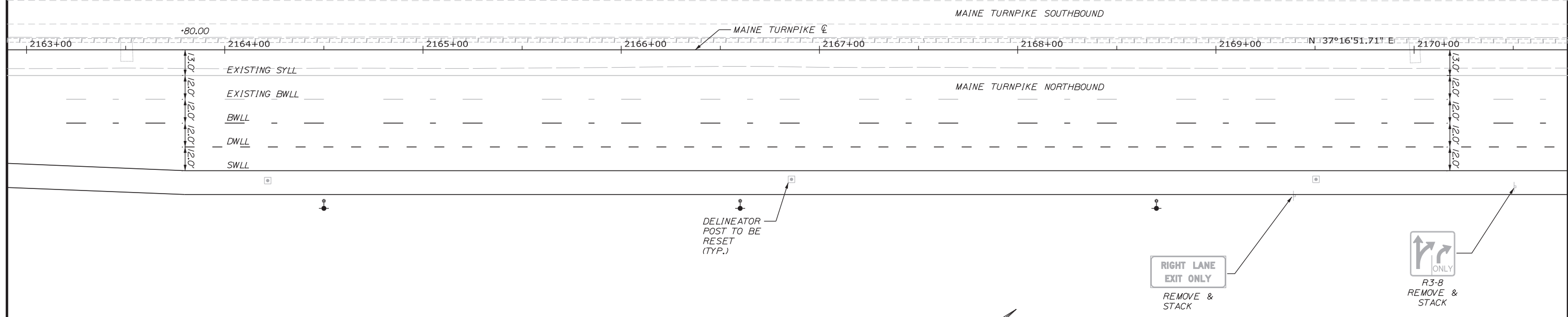
SHEET NUMBER: PRO-1

A28 OF A76

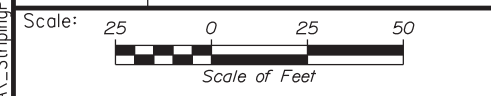


OVERHEAD GUIDESIGN AT STA. 2135+47.00

OVERHEAD GUIDESIGN AT STA. 2154+50.00



LEGEND
 BWLL - 6" BROKEN WHITE LANE LINE (10' LINE & 30' GAP)
 DWLL - 6" DOTTED WHITE LANE LINE (3' LINE & 9' GAP)
 SWLL - 6" SOLID WHITE LANE LINE
 SYLL - 6" SOLID YELLOW LANE LINE
 SWGL - 12" SOLID WHITE GORE LINE



Designed by:

Stantec

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
 FAX (207) 883-3376

**MAINE
TURNPIKE**

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

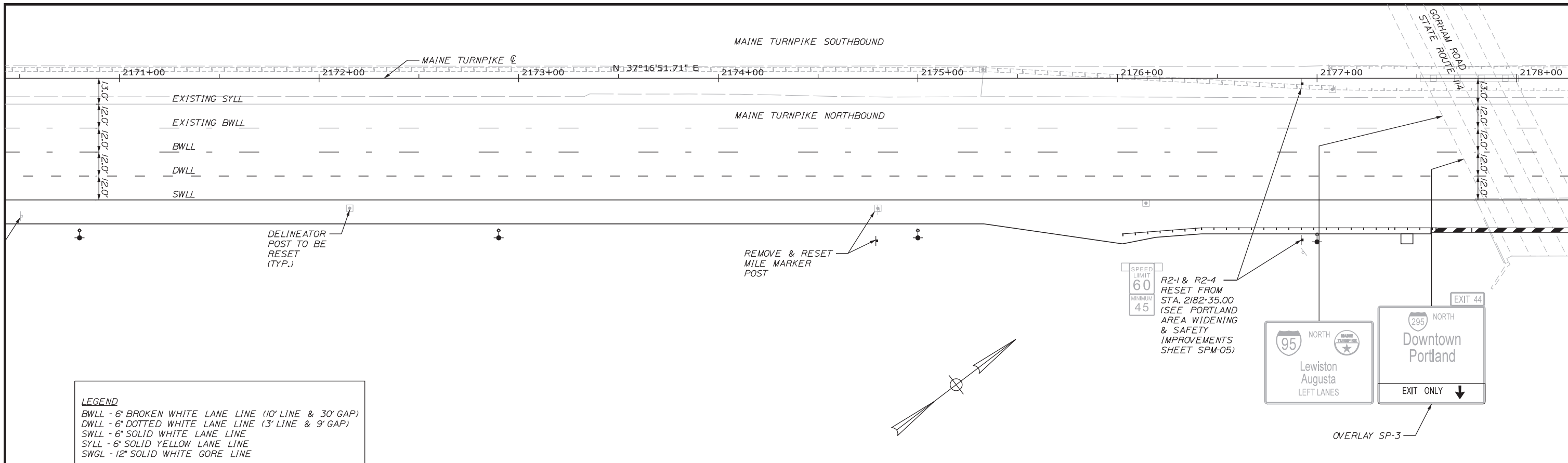
EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 SIGNING & STRIPING PLAN 1

SHEET NUMBER: SP-1

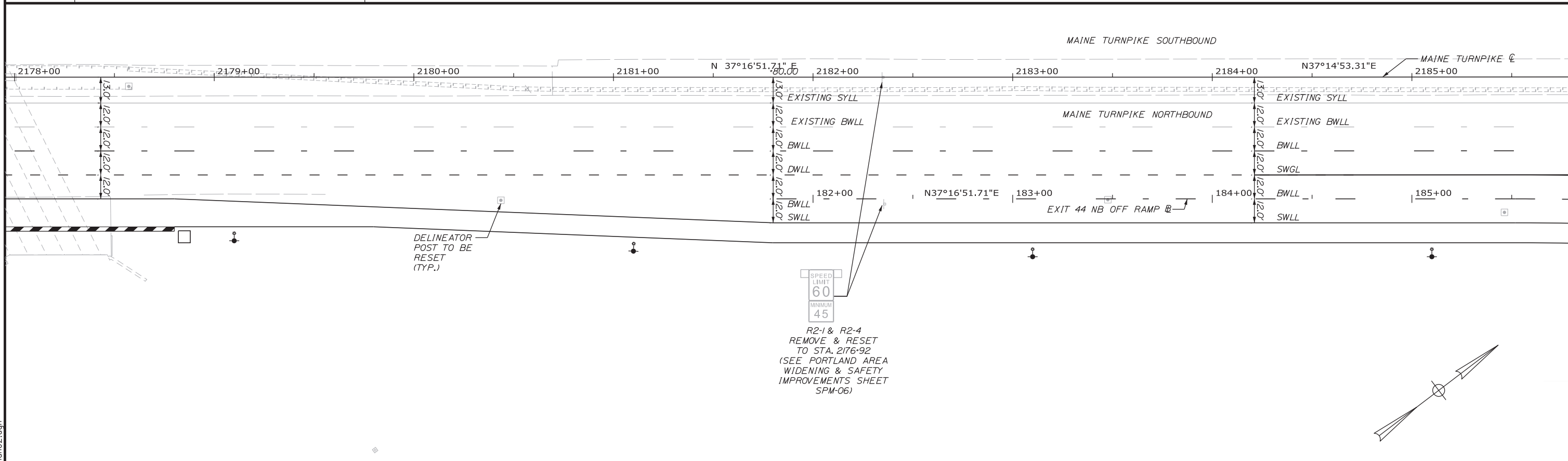
CONTRACT: 2020.03

A29 OF A76

Filename: ...MSTA_...StripingPlan01.dgn



LEGEND
 BWLL - 6" BROKEN WHITE LANE LINE (10' LINE & 30' GAP)
 DWLL - 6" DOTTED WHITE LANE LINE (3' LINE & 9' GAP)
 SWLL - 6" SOLID WHITE LANE LINE
 SYLL - 6" SOLID YELLOW LANE LINE
 SWGL - 12" SOLID WHITE GORE LINE



Scale: 25 0 25 50
 Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

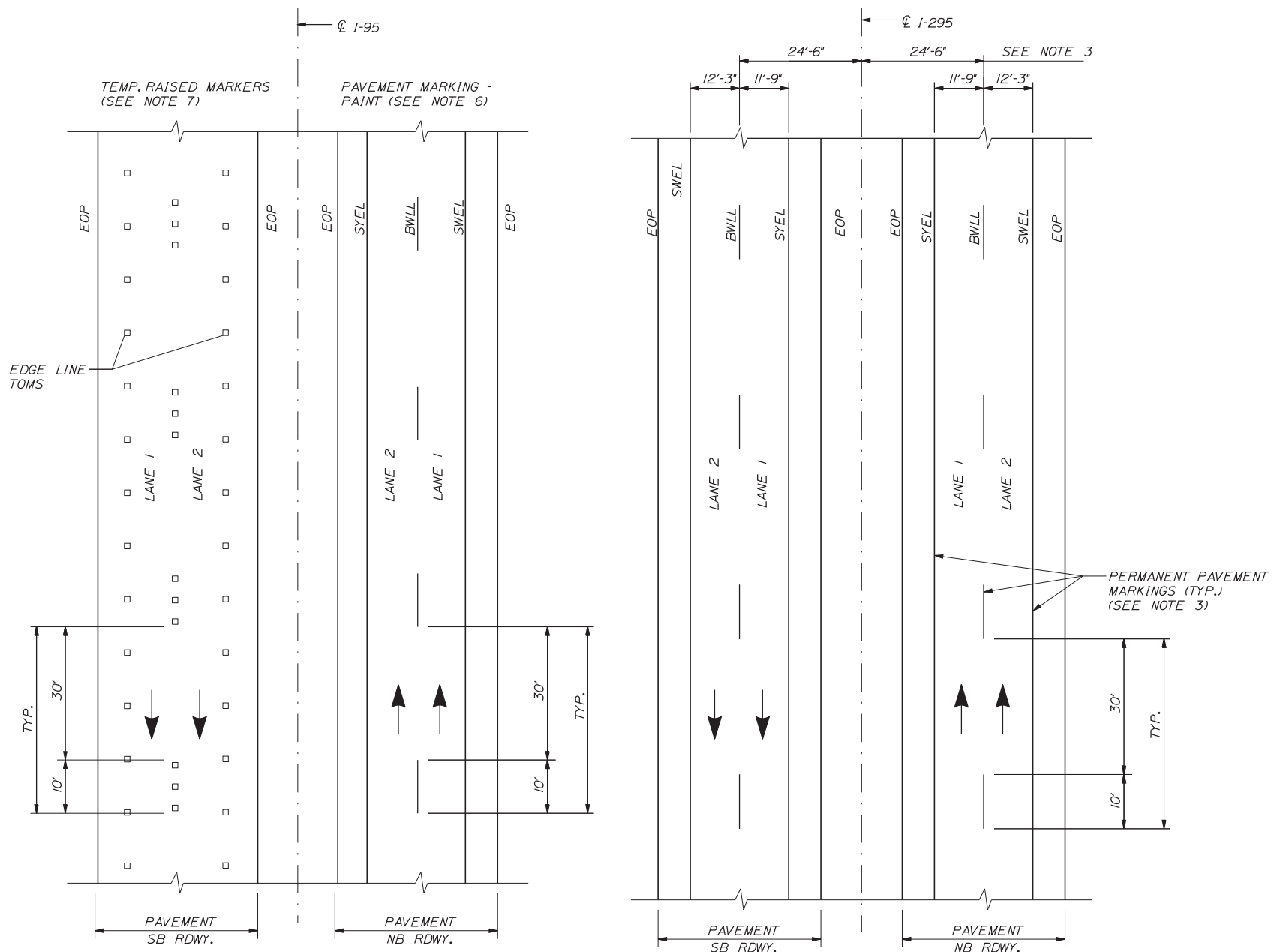
**EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 SIGNING & STRIPING PLAN 2**

SHEET NUMBER: SP-2
 CONTRACT: 2020.03
 A30 OF A76

Filename: ...MSTA_...StripingPlan02.dgn

Date: 2/25/2020

Filename: ...MSTA\...Detail-Striping.dgn



TEMP. PAVEMENT MARKINGS
2 LANE RDWY

PERMANENT PAVEMENT MARKINGS
2 LANE RDWY

LEGEND

- SYEL = SOLID YELLOW EDGE LINE (6" PAINT)
- SWEL = SOLID WHITE EDGE LINE (6" PAINT)
- BWLL = BROKEN WHITE LANE LINE (6" PAINT)
- EOP = EDGE OF PAVEMENT

NOTES:

1. PERMANENT PAVEMENT MARKINGS SHALL BE 6" WIDE LINES.
2. PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED ON BOTH ROADWAYS.
3. THE OFFSET DISTANCE SHOWN ARE MEASURED FROM THE CENTER OF THE 6" PAINT LINES.
4. TEMPORARY PAVEMENT MARKINGS ON MILLED PAVEMENT SHALL BE 6" SOLID WHITE, BROKEN WHITE AND SOLID YELLOW PAINT LINES.
5. TEMPORARY PAVEMENT MARKINGS ON NEW HMA (2.5 MM OR SHIM MATERIAL) SHALL BE TEMPORARY RAISED PAVEMENT MARKERS, "SOLID" WHITE AND "SOLID" YELLOW LANE LINES SHALL BE TEMPORARY RAISED PAVEMENT MARKERS SPACED AT 10'-0" C. TO C. "BROKEN" WHITE LANE LINES SHALL BE TEMPORARY RAISED PAVEMENT MARKERS SPACED 5'-0" C. TO C. EVERY 40'-0". TEMPORARY 6" PAVEMENT MARKING TAPE SHALL BE USED ON RADI1 ON SURFACE PAVEMENT, A 3" PIECE EVERY 40'.

NOTES: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE



EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS

STRIPING DETAIL

SHEET NUMBER: SS-1
CONTRACT: 2020.03
A32 OF A76







REMOVE AND STACK SIGN SUMMARY

* CONTRACTOR TO VERIFY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	NUMBER AND TYPE OF POSTS	COLOR		DIRECTION (NB-NORTHBOUND) (RAMP)	LOCATION	PAY ITEM NUMBER
				BACKGROUND	LEGEND			
-		1	2 - STEEL	YELLOW	BLACK	NB	STA. 2169+39 RT.	645.105
R3-8		2	1 - WOOD 1 - WOOD	YELLOW	BLACK	NB NB	STA. 2162+71 RT. STA. 2170+50 RT.	645.105 645.105

REMOVE AND RESET SIGN SUMMARY

* CONTRACTOR TO VERIFY

IDENTIFICATION NUMBER	DESCRIPTION	EXISTING							PROPOSED						
		HEIGHT* (IN.)	WIDTH* (IN.)	AREA* (SQ. FT.)	NUMBER AND TYPE OF POSTS	COLOR		DIRECTION (NB-NORTHBOUND) (RAMP)	LOCATION	NUMBER OF POSTS, TYPE AND SIZE	FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND) (EXIT 1)	LOCATION	PAY ITEM NUMBER
						BACKGROUND	LEGEND								
D10-2		24	12	2.00	1 - U-CHANNEL	GREEN	WHITE	NB	STA. 2174+80 RT.	1 - U-CHANNEL	N/A	YES	NB	STA. 2174+79 RT.	606.3561
R2-1 R2-4	 	(SEE PORTLAND AREA WIDENING & SAFETY IMPROVEMENTS SHEET SS-02)													
M4-14 M1-1	 	18 36	36 45	4.50 11.25	1 - STEEL	WHITE RED/ BLUE	BLACK WHITE	NB	STA. 2186+69 RT.	1 - W6X9	18" DIA.	YES	NB	STA. 2186+64 RT.	645.109
E5-1a		72	60	30.00	1 - STEEL	GREEN	WHITE	NB	STA. 2188+41 RT.	1 - W8X24	24" DIA.	YES	NB	STA. 2188+82 RT.	645.109


Date: 2/25/2020

Filename: ... \HIGHWAY\MSTA\... SignSummary.dgn

Scale: N.T.S.

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date	By	Date	
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
SIGN SUMMARY 1

SHEET NUMBER: SS-1
CONTRACT: 2020.03
A33 OF A76

PROPOSED SIGN SUMMARY

IDENTIFICATION NUMBER	DESCRIPTION	QUANTITY	SIGN SIZE			COLOR		NUMBER OF POSTS	POST SIZE	HEIGHT OF POST (CONTRACTOR TO CONFIRM HEIGHT)			FOUNDATION SIZE AND TYPE	BREAKAWAY DEVICE	DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND)	LOCATION	PAY ITEM NUMBER
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)					
SP-1		1	24	264	44.00	GREEN	N/A			← MOUNT TO EXISTING SIGN →					NB	STA. 2135+47, RT.	645.2511
SP-2		1	24	264	44.00	GREEN	WHITE			← MOUNT TO EXISTING SIGN →					NB	STA. 2154+50, RT.	645.2511
SP-3		1	48	300	100.00	YELLOW	BLACK			← MOUNT TO EXISTING SIGN →					NB	STA. 2177+75, RT.	645.2511
SP-4		1	48	300	100.00	YELLOW	BLACK			← RELOCATE EXISTING SIGN TO CENTER OVER RAMP LANES →					NB	STA. 2186+68, RT.	645.528
										← MOUNT TO EXISTING SIGN →					NB	STA. 2186+68, RT.	645.2511


Date: 2/25/2020

Filename: ... \HIGHWAY\MSTA\...SignSummary.dgn

Scale: N.T.S.

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
 FAX (207) 883-3376



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

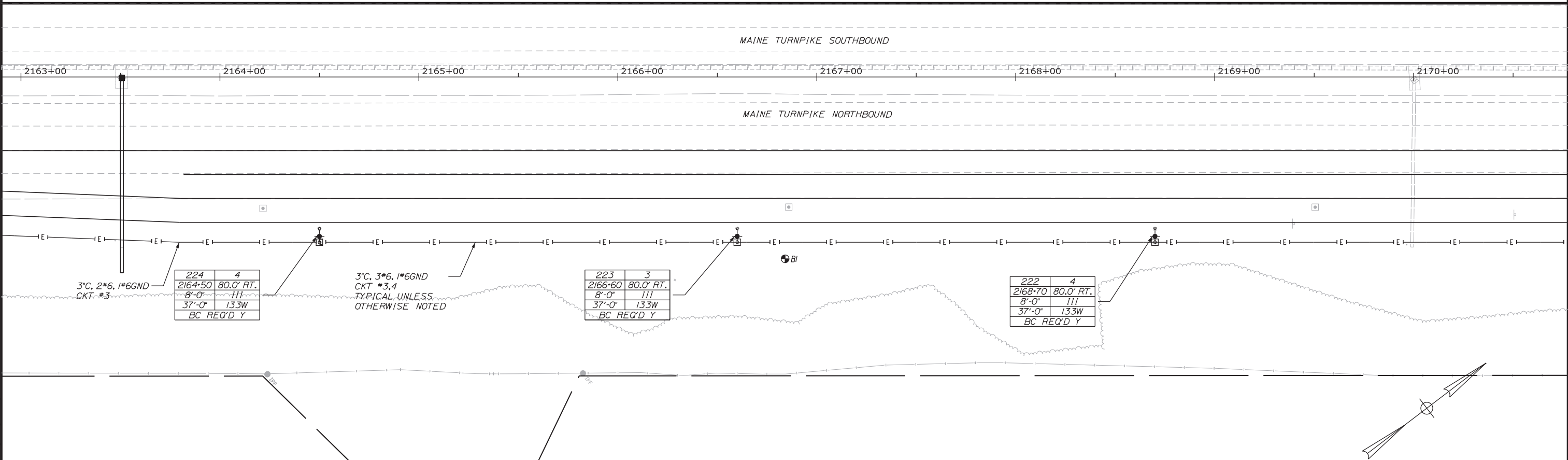
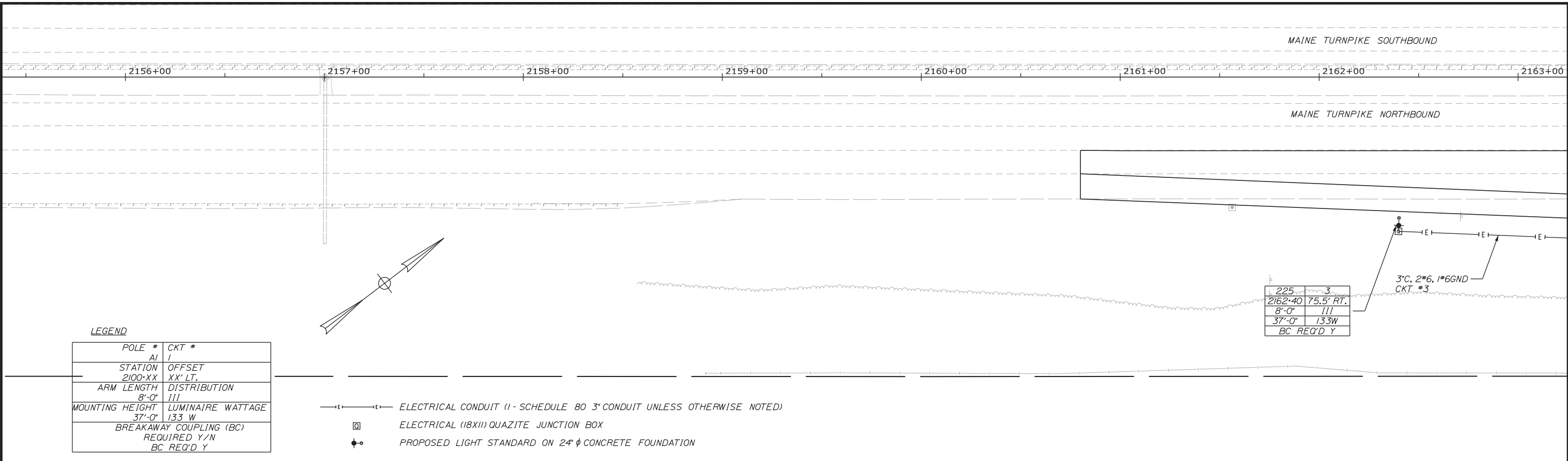
EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 SIGN SUMMARY 2

SHEET NUMBER: SS-2

CONTRACT: 2020.03

A34 OF A76

Date: 2/25/2020



Filename: ... \HIGHWAY\MSTA\Lighting-01.dgn

Scale: 25 0 25 50
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
LIGHTING PLAN 1

SHEET NUMBER: LP-01
CONTRACT: 2020.03
A35 OF A76

Date: 2/25/2020

REMOVE EXISTING LIGHTING CONTROLLER AND REPLACE WITH A CONTROLLER AS SHOWN IN MAINEDOT STANDARD DETAIL 634(03). COORDINATE WITH CMP TO DISCONNECT EXISTING SERVICE AND RECONNECT TO NEW MAIN BREAKER. RECONNECT EXISTING CIRCUITS TO DOUBLE POLE BREAKER 1 (CKT#1,2). CONNECT NEW CIRCUITS TO DOUBLE POLE BREAKER 2 (CKT#3,4). CONTRACTOR SHALL NOTE THAT INDIVIDUAL LUMINAIRES SHALL HAVE PHOTO CELLS AND NOT THE CONTROLLER. WORK SHALL BE INCIDENTAL TO THE 634 ITEMS.

3" C, 3#6, 1#6GND
CKT #3,4
TYPICAL UNLESS OTHERWISE NOTED

DIRECTIONAL BORE UNDER ROADWAY (3'-3" CONDUIT)
EXISTING AERIAL ELECTRICAL LINES

MAINE TURNPIKE SOUTHBOUND

MAINE TURNPIKE NORTHBOUND

2171+00 2172+00 2173+00 2174+00 2175+00 2176+00 2177+00 2178+00

REMOVE AND RESET LIGHT STANDARD

REMOVE AND RESET LIGHT STANDARD

218* 4
2177+00 82.0' RT.
8'-0" III
37'-0" 133W
BC REQ'D N
* RELOCATED LIGHT STANDARD

221 3
2170+80 80.0' RT.
8'-0" III
37'-0" 133W
BC REQ'D Y

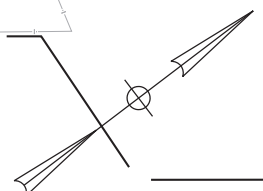
220 4
2172+90 80.0' RT.
8'-0" III
37'-0" 133W
BC REQ'D Y

219 3
2175+00 80.0' RT.
8'-0" III
37'-0" 133W
BC REQ'D Y

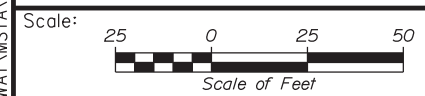
LEGEND

POLE #	AI	CKT #	1
STATION	2100+XX	OFFSET	XX' LT.
ARM LENGTH	8'-0"	DISTRIBUTION	III
MOUNTING HEIGHT	37'-0"	LUMINAIRE WATTAGE	133 W
BREAKAWAY COUPLING (BC)		REQUIRED Y/N	
		BC REQ'D Y	

- E—E— ELECTRICAL CONDUIT (1 - SCHEDULE 80 3" CONDUIT UNLESS OTHERWISE NOTED)
- ELECTRICAL (IBXII) QUARTZITE JUNCTION BOX
- ⊕ PROPOSED LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION



Filename: ... \HIGHWAY\MSTA\Lighting-02.dgn



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date	By	Date
Designed	JMB	02\20	Checked	LEM 02\20
Drawn	EJB	02\20	In Charge of	GAE 02\20

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482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

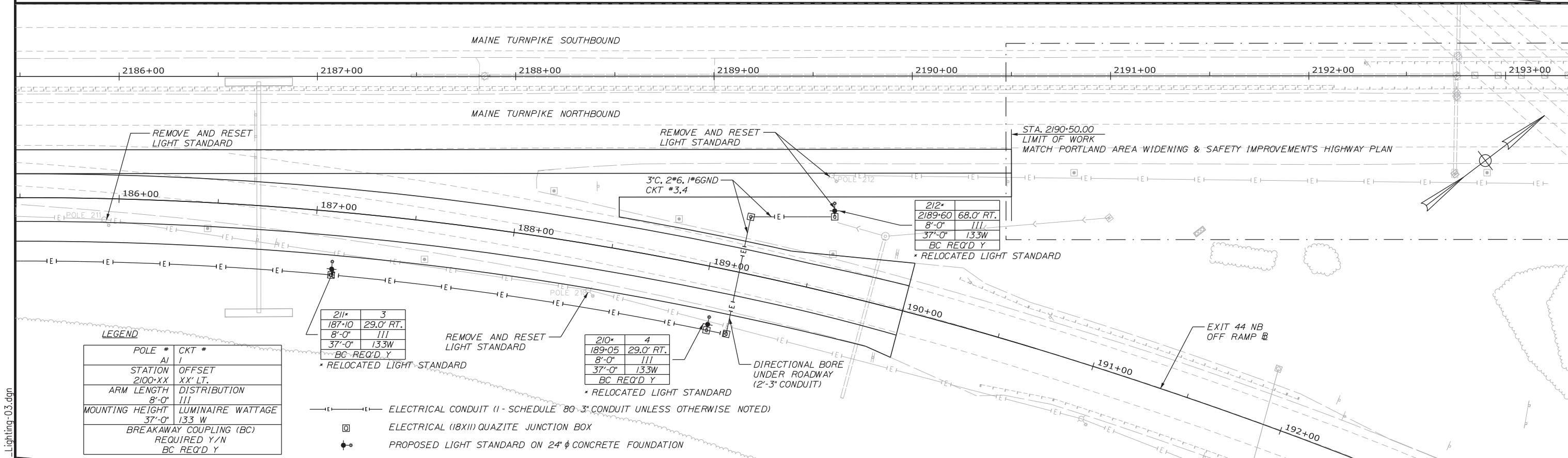
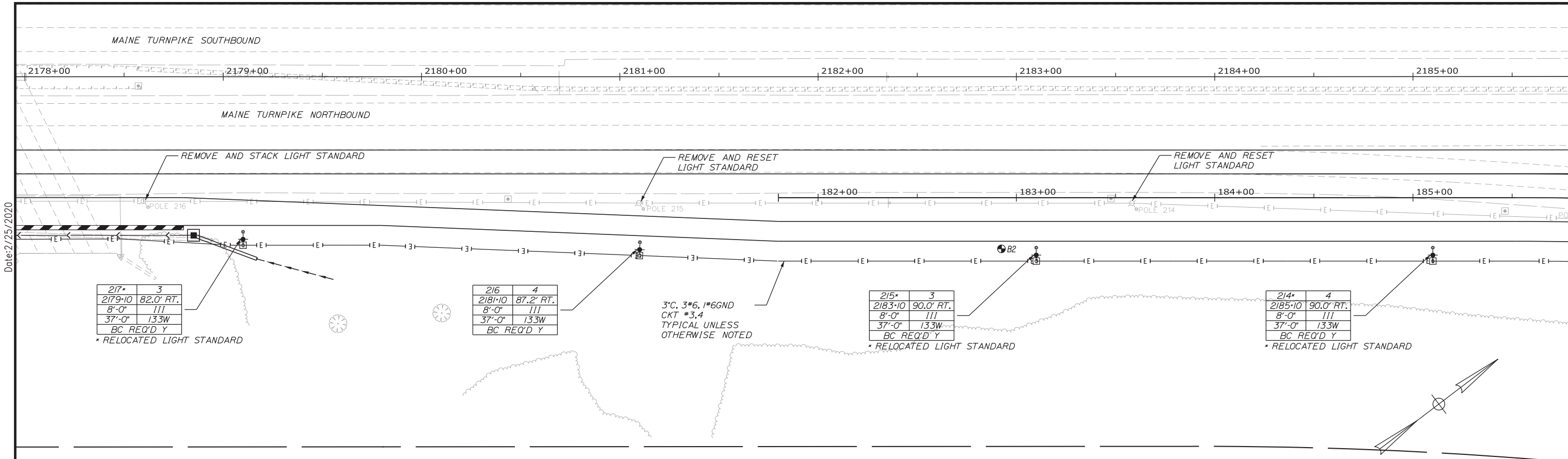


**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
LIGHTING PLAN 2

CONTRACT: 2020.03
SHEET NUMBER: LP-02
A36 OF A76

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE



Scale: 25 0 25 50
Scale of Feet


No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

By	Date	By	Date
Designed	JMB 02\20	Checked	LEM 02\20
Drawn	EJB 02\20	In Charge of	GAE 02\20

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482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

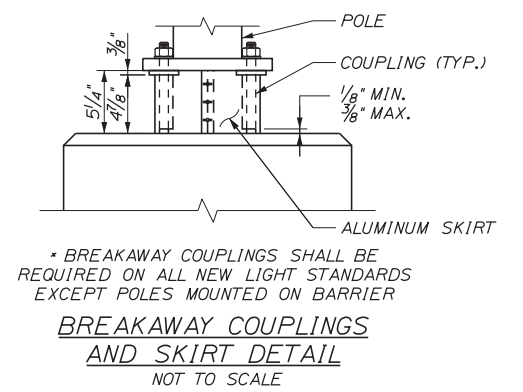
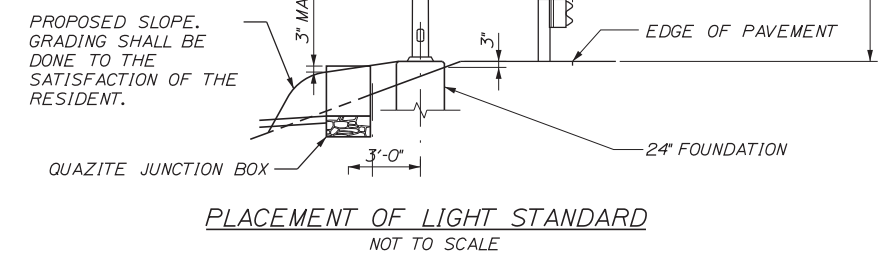
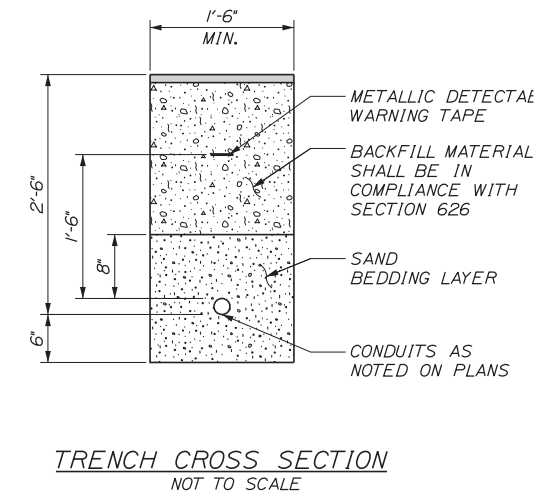
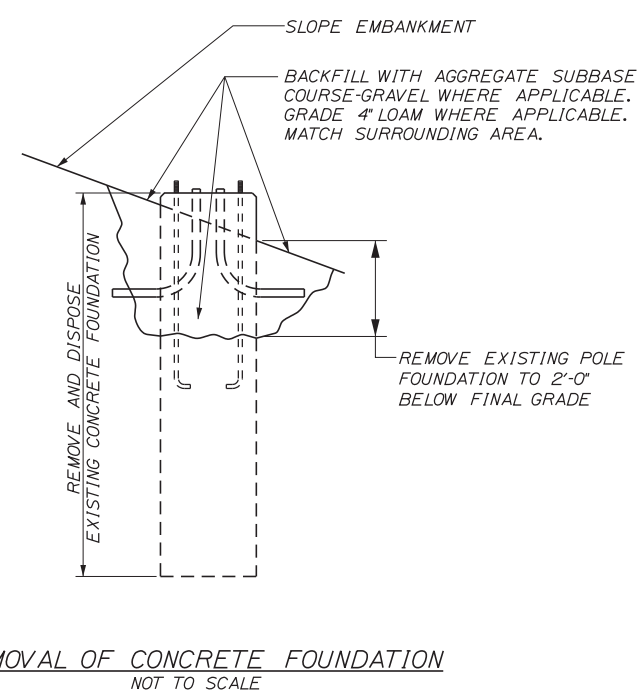
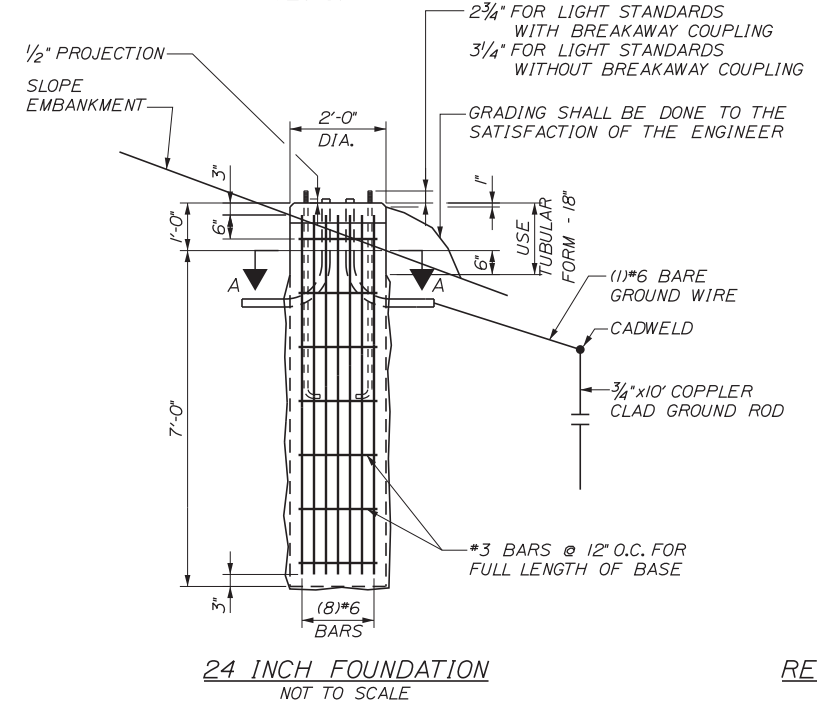
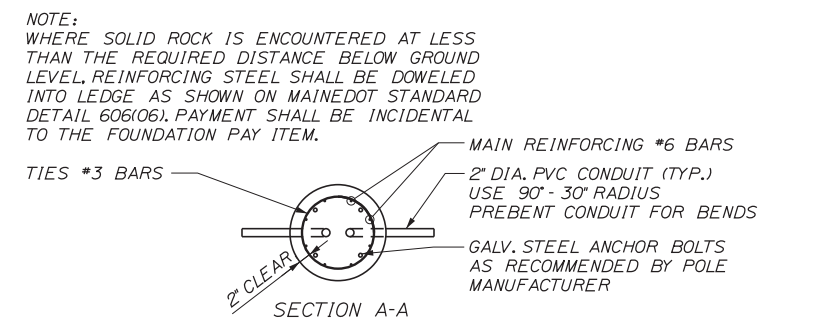
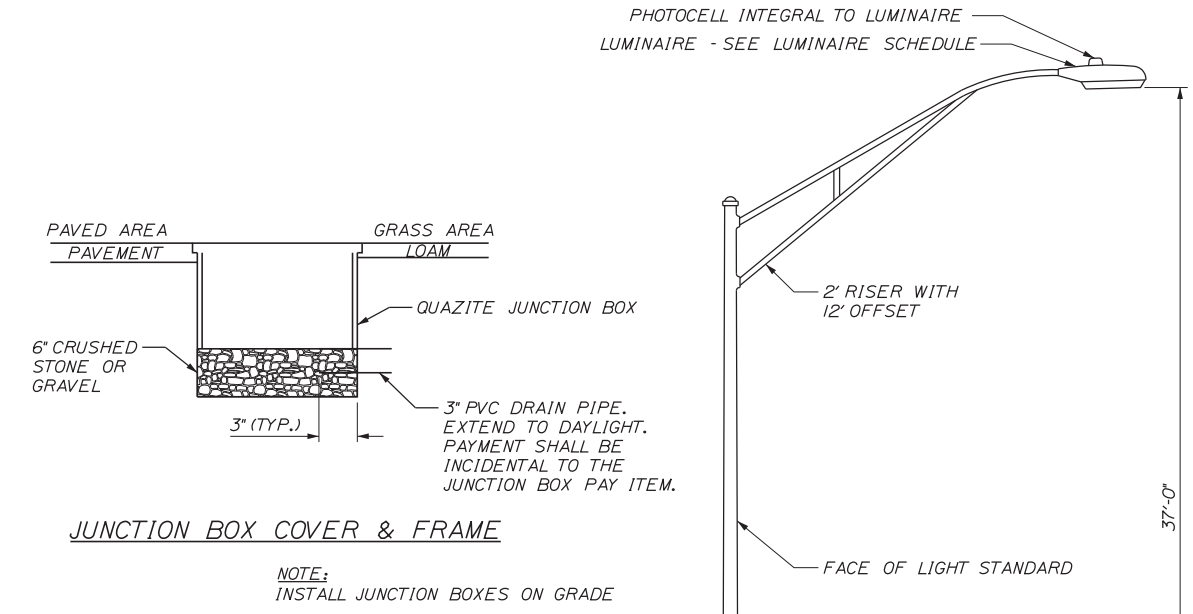
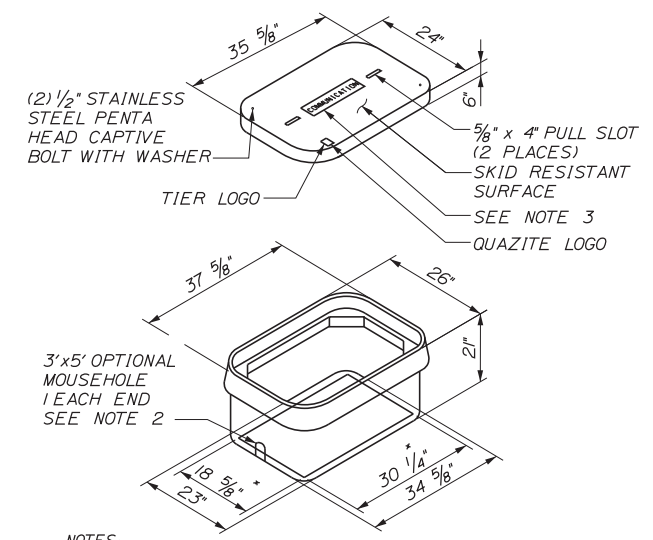
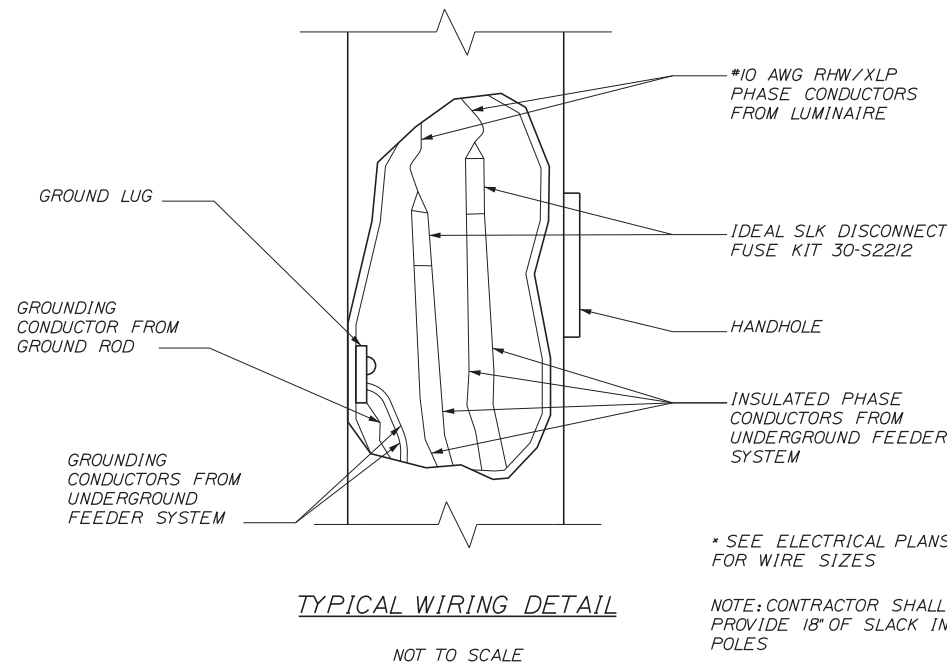
EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS LIGHTING PLAN 3

SHEET NUMBER: LP-03
CONTRACT: 2020.03
A37 OF A76

Date: 2/25/2020
Filename: ... \HIGHWAY\MSTA\Lighting-03.dgn

Date: 2/25/2020

Filename: ...MSTA...Detail-Lighting-01.dgn



NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Scale:			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE			
Designed	JMB	02\20	Checked
Drawn	EJB	02\20	In Charge of
			By
			Date
			By
			Date

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482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
LIGHTING AND COMMUNICATION DETAILS 1

SHEET NUMBER: LCD-1
A38 OF A76

CONTRACT: 2020.03

CALCULATION SUMMARY							
PROJECT: ROADWAY LIGHTING CALCULATIONS							
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
RAMP CONFLICT AREA	ILLUMINANCE	Fc	0.72	1.7	0.24	3.00	7.13

ROADWAY LUMINAIRE SCHEDULE					
LABEL	CATALOG NUMBER	DESCRIPTION	MINIMUM LUMENS	LIGHT LOSS FACTOR	MAXIMUM WATTS
A	SEE SPECIFICATIONS FOR CATALOG NUMBER.	LED COBRAHEAD, 4000K CCT, IES TYPE 3 DISTRIBUTION	17000	0.67	133

GENERAL NOTES: LIGHTING

1. LIGHTING FIXTURES SHALL BE IES FULL CUTOFF.
2. ALL FIXTURES SHALL BE GASKETED AND HAVE SURGE PROTECTION AND A DOUBLE FUSE KIT. ALL FIXTURES SHALL BE GRAY. IF DIFFERENT FIXTURES ARE PROPOSED, THEY SHALL BE IES FULL CUTOFF OR CUTOFF, IES DISTRIBUTION TYPE AS NOTED IN THE LUMINAIRE SCHEDULE. LED LUMINAIRES, B.U.G. RATINGS SHALL BE EQUAL TO OR BETTER THAN THE DESIGNED FIXTURES. THE CONTRACTOR MUST DEMONSTRATE THAT THE PROPOSED FIXTURES WILL REASONABLY EQUAL THE LIGHT LEVELS AND DISTRIBUTIONS SHOWN ON THE PLANS, IN THE OPINION OF MTA.
3. EVALUATION OF ALTERNATIVE LED LUMINAIRES THAT MAY BE PROPOSED BY THE CONTRACTOR FOR SUBSTITUTION WILL REQUIRE SUBMITTAL OF THE FOLLOWING, AT MINIMUM: IES LM-79-08 ABSOLUTE TESTING REPORT FOR THE PROPOSED ALTERNATIVE LUMINAIRE; IES LM-80-15 TESTING REPORT FOR LED CHIPS TO BE USED IN THE ALTERNATIVE LUMINAIRE, DOCUMENTING TESTING FOR A MINIMUM OF 8500 HOURS; IES TM-21-II REPORT FOR PROJECTED LONG TERM LUMEN MAINTENANCE, INCLUDING INCREMENTAL LUMEN DEPRECIATION TABLE AT 25 DEGREES CELSIUS TO A MINIMUM OF 50,000 HOURS; IES PHOTOMETRIC FILE FROM THE MANUFACTURER FOR THE PROPOSED ALTERNATIVE LUMINAIRE; PHOTOMETRIC PLOT, OVERLAID ON THE LAYOUT OF PROJECT, SHOWING LIGHT CONTOURS, ILLUMINATION STATISTICS FOR EACH OF THE LIGHTING GROUPS, AND VALUE OF LIGHT LOSS FACTOR USED IN THE ANALYSIS; VALUES OF LLD, LDD, BALLAST FACTOR AND OTHER FACTORS USED FOR CALCULATION OF THE ASSUMED LIGHT LOSS FACTOR; SPECIFICATION DATA REGARDING OPTICS, CHROMATIC COLOR TEMPERATURE, DRIVER, SURGE PROTECTION, HOUSING AND GASKETING.
4. CONDUIT SHALL BE 3" MINIMUM PVC SCHEDULE 40. CONDUIT UNDER PAVEMENT SHALL BE SCHEDULE 80, UNLESS INSTALLED IN RIGID UNDER PAVEMENT DUCT SLEEVE.
5. A JUNCTION BOX SHALL BE INSTALLED AT EACH POLE. THE WIRING IN CONDUITS SHALL BE CONTINUOUS BETWEEN JUNCTION BOXES.
6. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL FURNISH TO MTA A SET OF AS-BUILT PLANS FOR FUTURE REFERENCE AND SYSTEM MAINTENANCE.
7. ALL LIGHT BASES SHALL HAVE A GROUND ROD LOCATED ADJACENT TO THE POLE THAT IS BONDED TO THE GROUNDING CONDUCTOR. PAYMENT FOR THE GROUND ROD SHALL BE INCLUDED IN LIGHT POLE ITEM.
8. LIGHTING SERVICE PANEL SHALL BE MARKED WITH ARC FLASH HAZARD TYPE 1, 2, 3 OR 4 AND THE APPROPRIATE PPE REQUIRED.
9. BREAKAWAY DEVICES FOR LIGHT POLES SHALL CONFORM TO THE LATEST VERSION OF "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND NCHRP REPORT 350. THE BREAKAWAY DEVICE SHALL BE DESIGNED SO THAT THE ANCHOR BOLTS WILL NOT BEND WHEN A VEHICLE HITS THE POLE. A FRANGIBLE COUPLING SUCH AS TRANSPO POLE-SAFE 5000 SERIES (WITH A FEMALE ANCHOR), THE MANITOBA SAFETY BASE WITH REACTION PLATE, OR APPROVED EQUAL SHALL BE USED. BREAKAWAY DEVICES SHALL BE INSTALLED ON ALL POLES EXCEPT THOSE LOCATED ON BARRIERS.
10. WIRE SHALL BE STRANDED COPPER XHHW-2, SIZE AS NOTED ON THE PLANS.
11. FOUNDATIONS SHALL BE PRECAST 24 INCH DIAMETER BY 7' HEIGHT FOUNDATIONS.
12. LIGHT POLES THAT ARE REMOVED SHALL BE CAREFULLY REMOVED AND DELIVERED TO THE MTA SIGN SHOP AT MM 58.3 NB. WHEN REMOVING LIGHT POLES, REMOVE ALL EXISTING CONDUCTORS ASSOCIATED WITH THE LIGHT POLE. WHEN REMOVING HANDHOLES, REMOVE ALL CONDUCTORS IN CONDUITS ENTERING THE HANDHOLE BACK TO NEAREST HANDHOLE OR LIGHTING UNIT TO REMAIN AND ABANDON THE EMPTY CONDUIT IN PLACE. PRIOR TO CONDUCTOR REMOVAL, CONTRACTOR SHALL TEST THAT CIRCUITS THAT SERVICE EXISTING LOADS ARE NOT AFFECTED BY REMOVAL.
13. EXISTING INTERCHANGE LIGHTING IS INTENDED TO REMAIN OPERATIONAL UNTIL NEW LIGHTING IS ACTIVATED. IF NECESSARY TO REMOVE OR DEACTIVATE ANY LUMINAIRE BEFORE NEW LIGHTING IS ACTIVATED, WHEN APPROVED BY THE RESIDENT, TEMPORARY LIGHTING SHALL BE USED TO MAINTAIN ILLUMINATION AND WILL BE PAID UNDER ITEM NO. 652.39 PORTABLE LIGHT TOWER.
14. AT EACH POLE, CONTRACTOR SHALL PROVIDE 18" OF EXTRA WIRE SLACK, TO REMOVE THE FUSE HOLDERS FROM THE HANDHOLE TO REPLACE FUSES.
15. PROVIDE LABELS ON ALL POLES INCLUDING RELOCATED LIGHT POLES.
16. EXISTING LIGHTING CONDUIT MAY CONTAIN ASBESTOS MATERIALS. REMOVAL OF THIS SHALL BE INCIDENTAL TO ITEM NO. 634.051. REMOVAL SHALL BE IN COMPLIANCE WITH ALL RELATED ENVIRONMENTAL REGULATIONS.
17. ALL REMOVED AND RESET LIGHT STANDARDS SHALL HAVE BREAKAWAY BASES.
18. REMOVE ALL WIRING FEEDING THE EXISTING LIGHT STANDARDS THAT ARE TO BE REMOVED.

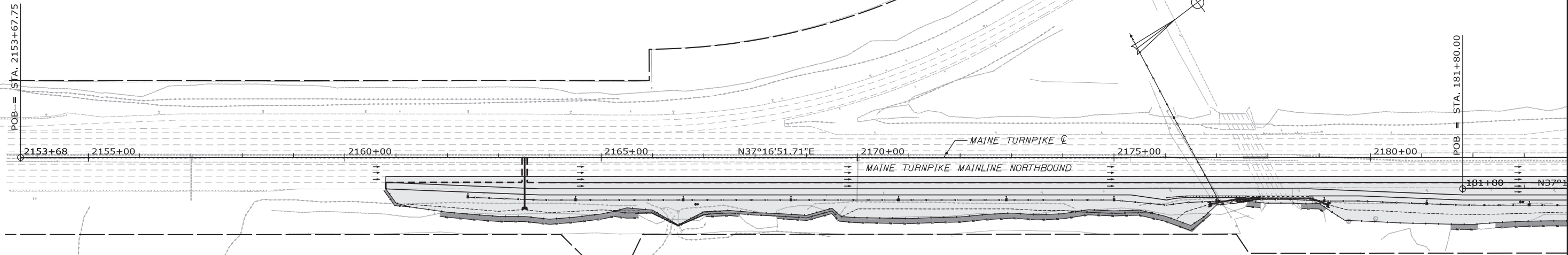
NOTE: THIS SHEET ONLY APPLIES TO APPENDIX A EXIT 44 NORTHBOUND OFF RAMP IMPROVEMENTS

Date: 2/25/2020

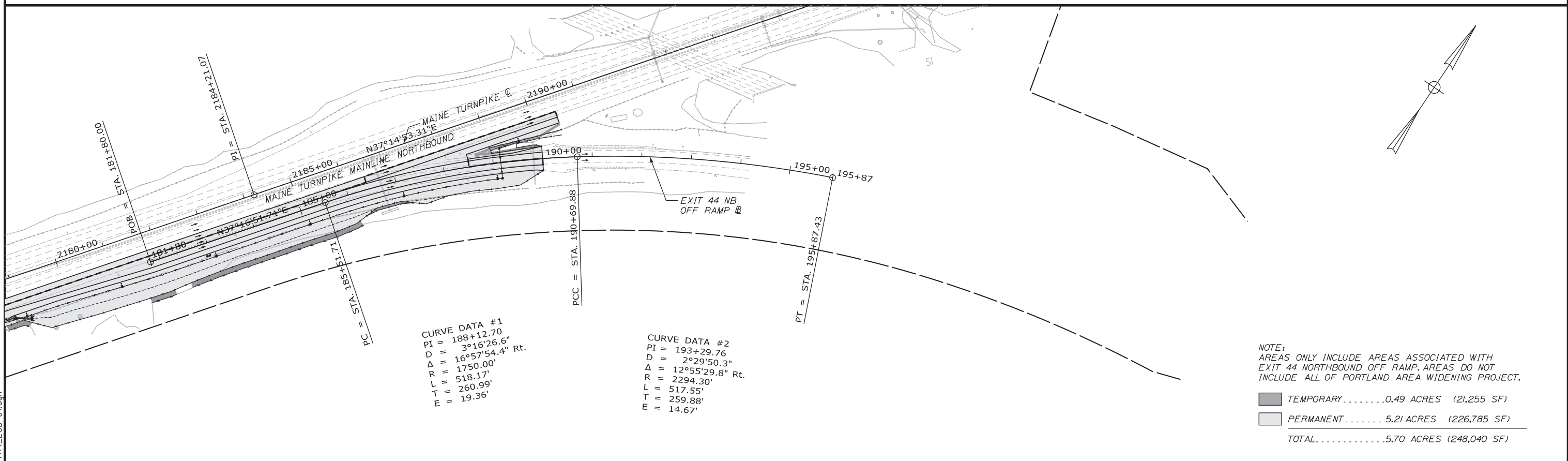
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Scale:	Designed by: 	STANTEC CONSULTING SERVICES INC. 482 PAYNE ROAD SCARBOROUGH, ME 04074 TEL (207) 887-3448 FAX (207) 883-3376		<h2 style="margin: 0;">THE GOLD STAR MEMORIAL HIGHWAY</h2>	<h3 style="margin: 0;">EXIT 44</h3> <h2 style="margin: 0;">NORTHBOUND OFF RAMP IMPROVEMENTS</h2> <h2 style="margin: 0;">LIGHTING AND COMMUNICATION DETAILS 2</h2>																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Revision	By	Date					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE</th> </tr> <tr> <th> </th> <th>By</th> <th>Date</th> <th> </th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>JMB</td> <td>02\20</td> <td>Checked</td> </tr> <tr> <td>Drawn</td> <td>EJB</td> <td>02\20</td> <td>In Charge of</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>GAE 02\20</td> </tr> </tbody> </table>		CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					By	Date		Designed	JMB	02\20	Checked	Drawn	EJB	02\20	In Charge of				GAE 02\20	SHEET NUMBER: LCD-2 CONTRACT: 2020.03 A39 OF A76
No.	Revision	By	Date																													
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			GAE 02\20																													
			MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE																													

Date: 2/25/2020



- NOTES:
1. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
 2. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
 3. AN ADDITIONAL 1 ACRE HAS BEEN ESTIMATED FOR CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.



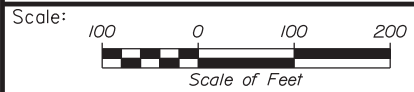
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 D = 3°16'26.6"
 Δ = 16°57'54.4" Rt.
 R = 1750.00'
 L = 518.17'
 T = 260.99'
 E = 19.36'

CURVE DATA #2
 PI = 193+29.76
 D = 2°29'50.3"
 Δ = 12°55'29.8" Rt.
 R = 2294.30'
 L = 517.55'
 T = 259.88'
 E = 14.67'

NOTE:
 AREAS ONLY INCLUDE AREAS ASSOCIATED WITH
 EXIT 44 NORTHBOUND OFF RAMP. AREAS DO NOT
 INCLUDE ALL OF PORTLAND AREA WIDENING PROJECT.

TEMPORARY.....	0.49 ACRES	(21,255 SF)
PERMANENT.....	5.21 ACRES	(226,785 SF)
TOTAL.....	5.70 ACRES	(248,040 SF)

Filename: ...\\00.HIGHWAY\MSTA\...LOD-01.dgn



No.	Revision	By	Date

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STANTEC CONSULTING SERVICES INC.
 482 PAYNE ROAD
 SCARBOROUGH, ME 04074
 TEL (207) 887-3448
 FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

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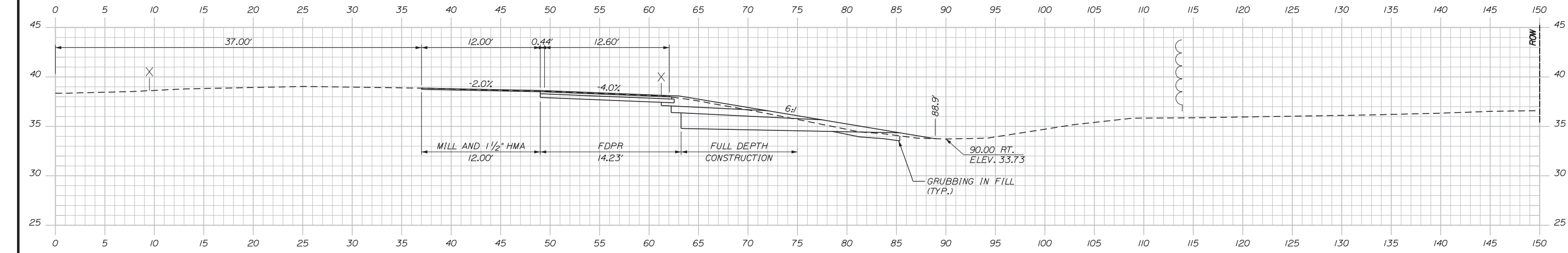


THE GOLD STAR
 MEMORIAL HIGHWAY

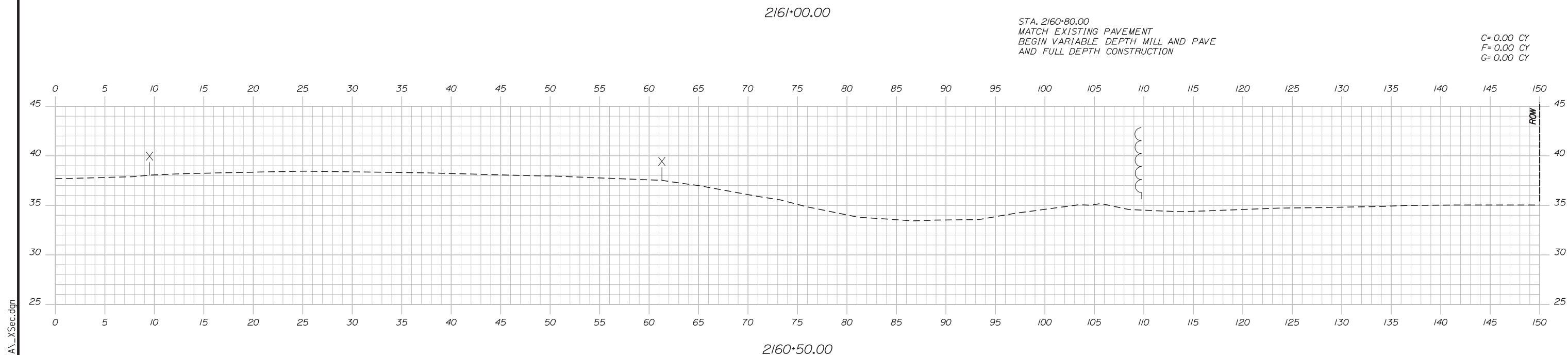
EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 LIMIT OF DISTURBANCE PLAN 1

SHEET NUMBER: LOD-1
 CONTRACT: 2020.03
 A40 OF A76

Date: 2/25/2020



C= 85.02 CY
F= 1.15 CY
G= 26.75 CY



C= 0.00 CY
F= 0.00 CY
G= 0.00 CY

Scale:

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SCARBOROUGH, ME 04074
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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

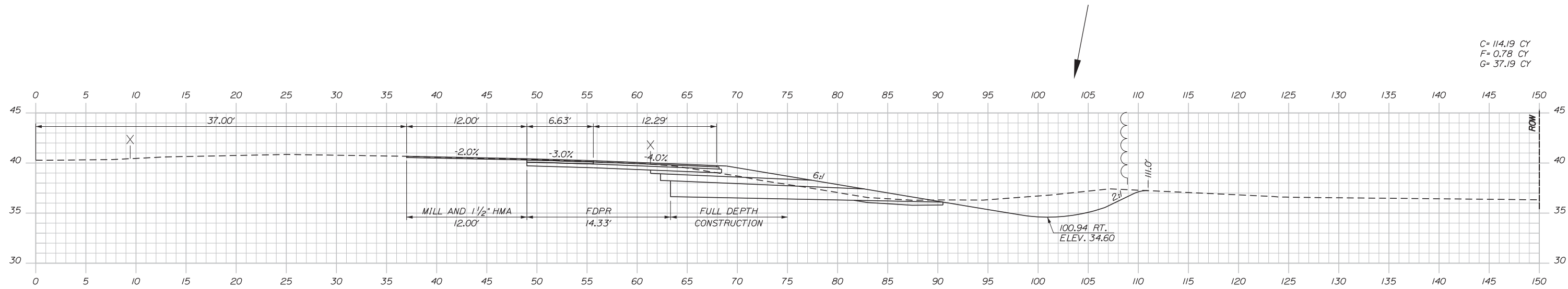
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2160+50.00 TO STA. 2161+00.00

SHEET NUMBER: XS-1
CONTRACT: 2020.03
A 41 OF A76

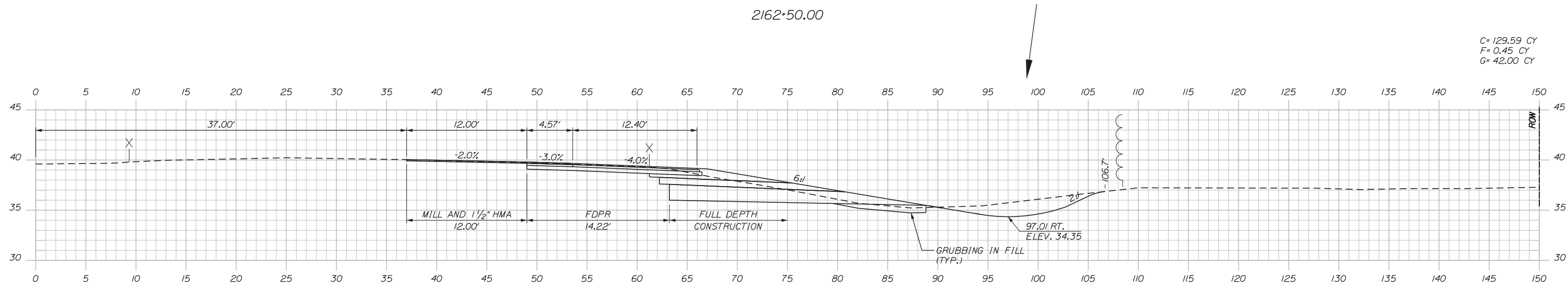
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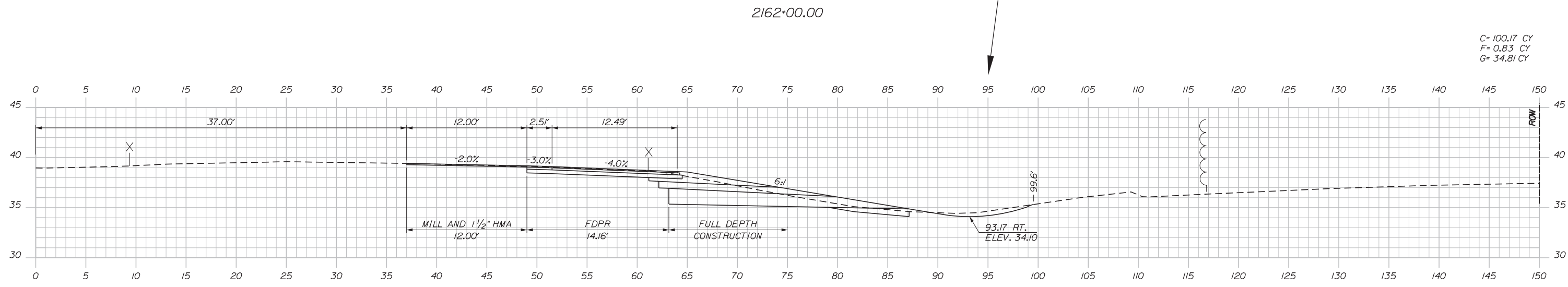
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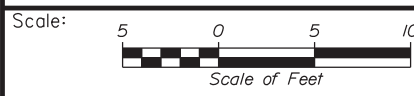
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F= 0.78 CY
G= 37.19 CY



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G= 42.00 CY



C= 100.17 CY
F= 0.83 CY
G= 34.81 CY



Designed by:

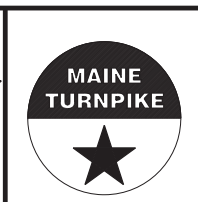
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**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2161+50.00 TO STA. 2162+50.00

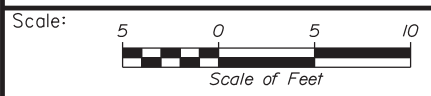
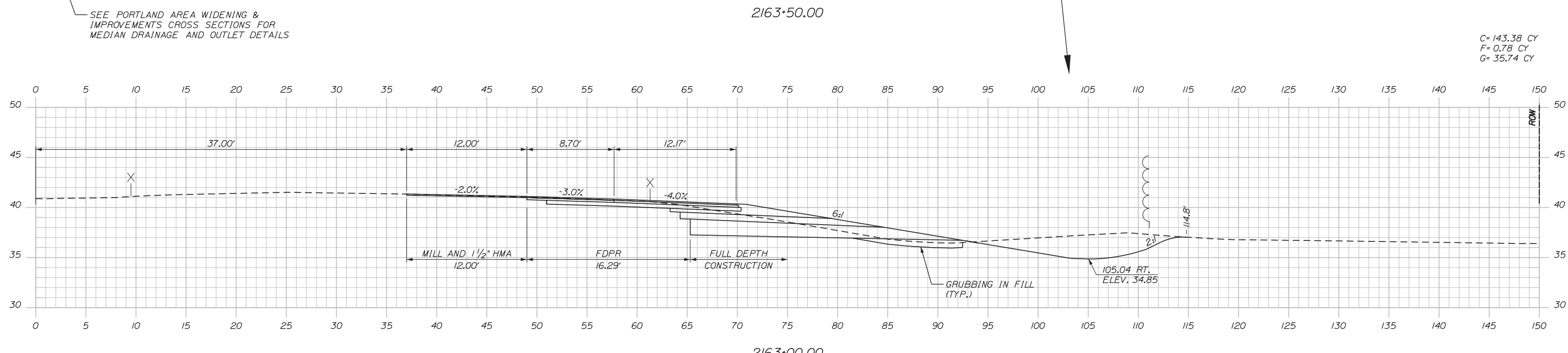
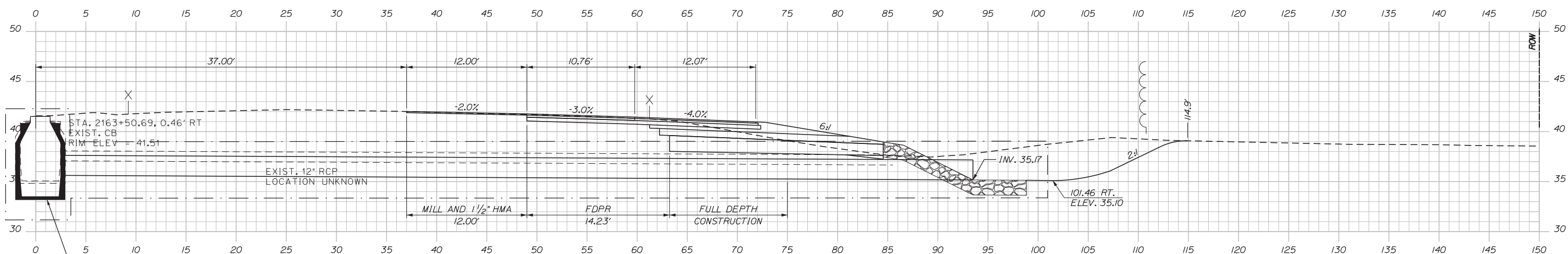
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-2
A42 OF A76

Date: 2/25/2020

Filename: ...00\HIGHWAY\MSTA\...XSec.dgn



Designed by:

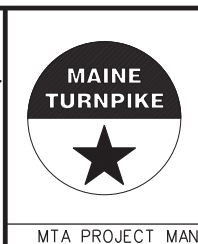
Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
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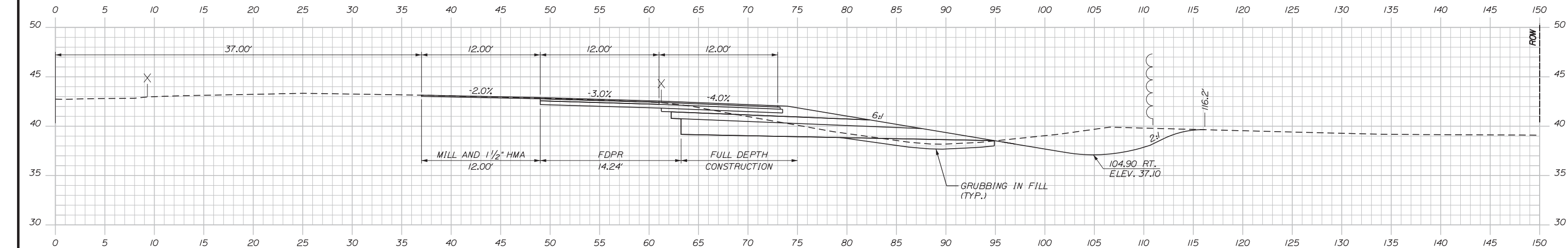
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

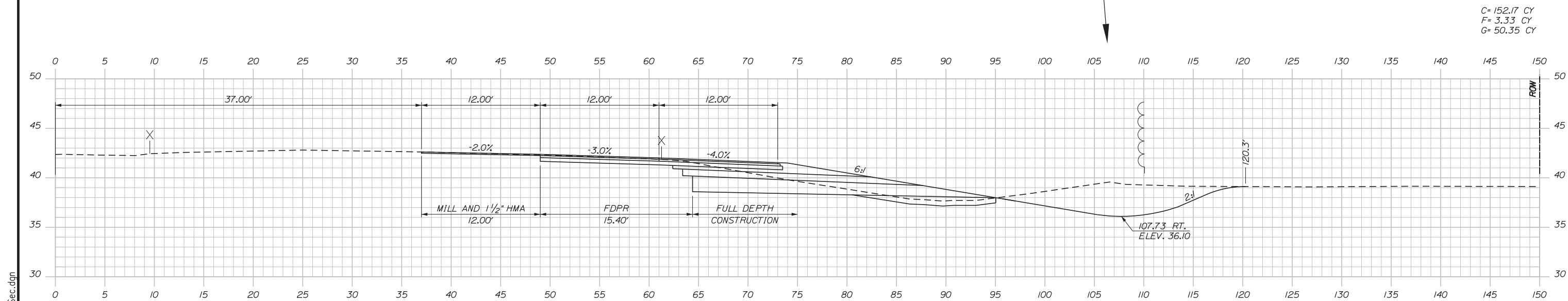
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2163+00.00 TO STA. 2163+50.00

SHEET NUMBER: XS-3
CONTRACT: 2020.03
A43 OF A76

Date: 2/25/2020



2164+50.00



2164+00.00



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EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS

STA. 2164+00.00 TO STA. 2164+50.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

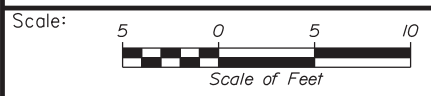
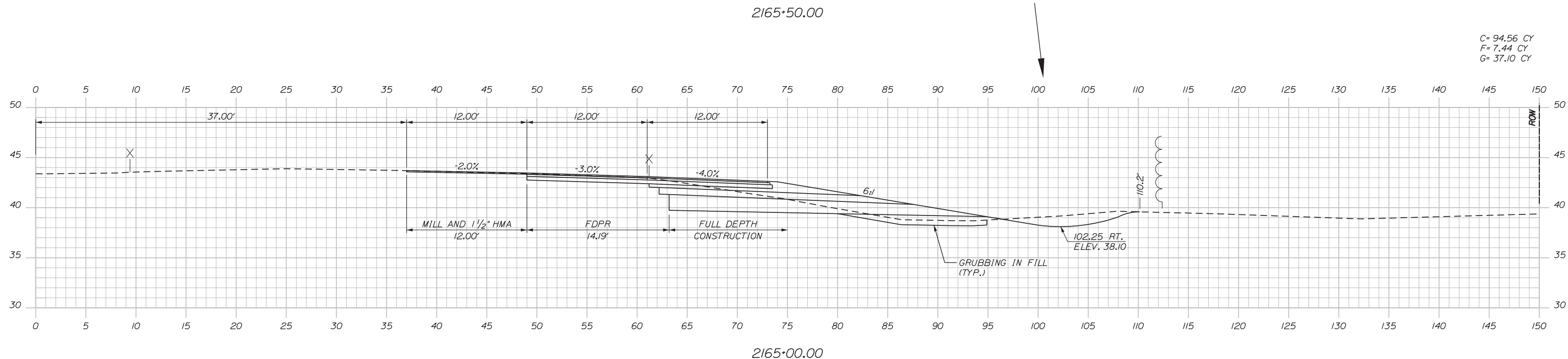
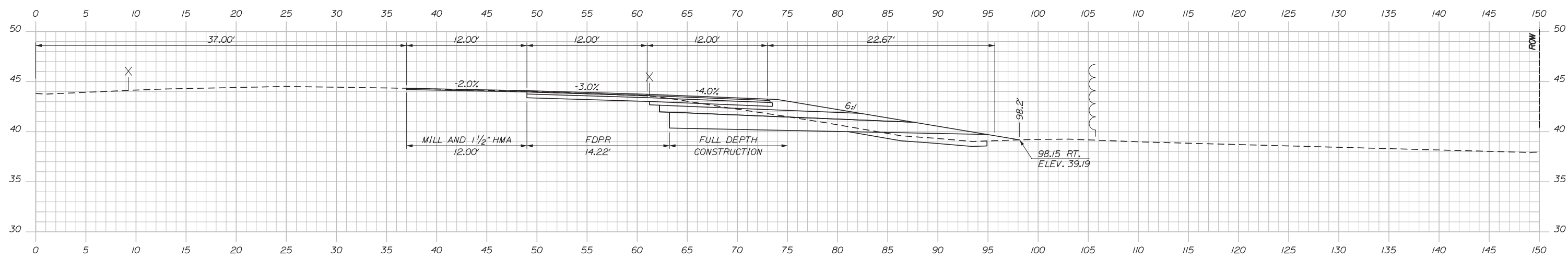
SHEET NUMBER: XS-4

A44 OF A76

Filename: ... \00\HIGHWAY\MSTA\...XSec.dgn

Date: 2/25/2020

Filename: ...00\HIGHWAY\MSTA_XSec.dgn



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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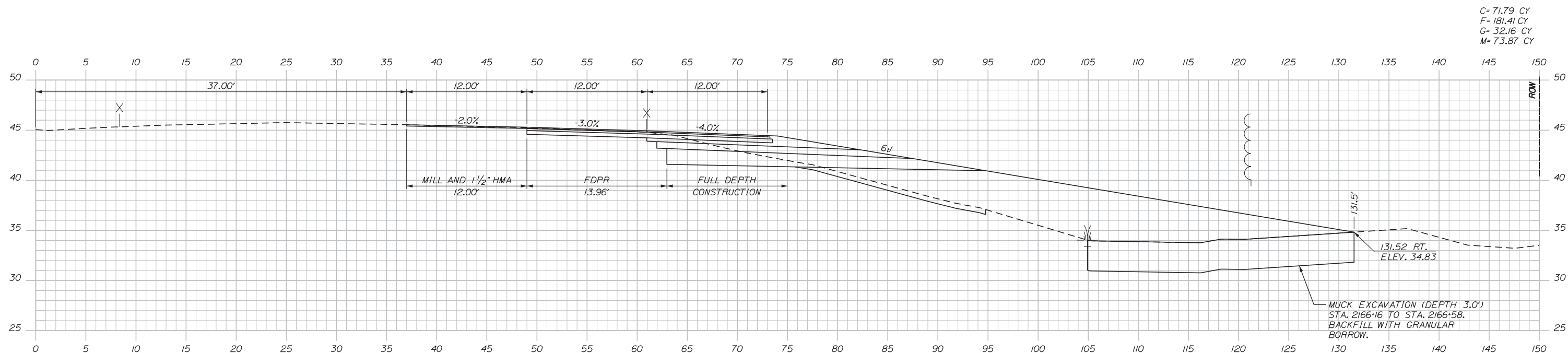
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2165+00.00 TO STA. 2165+50.00

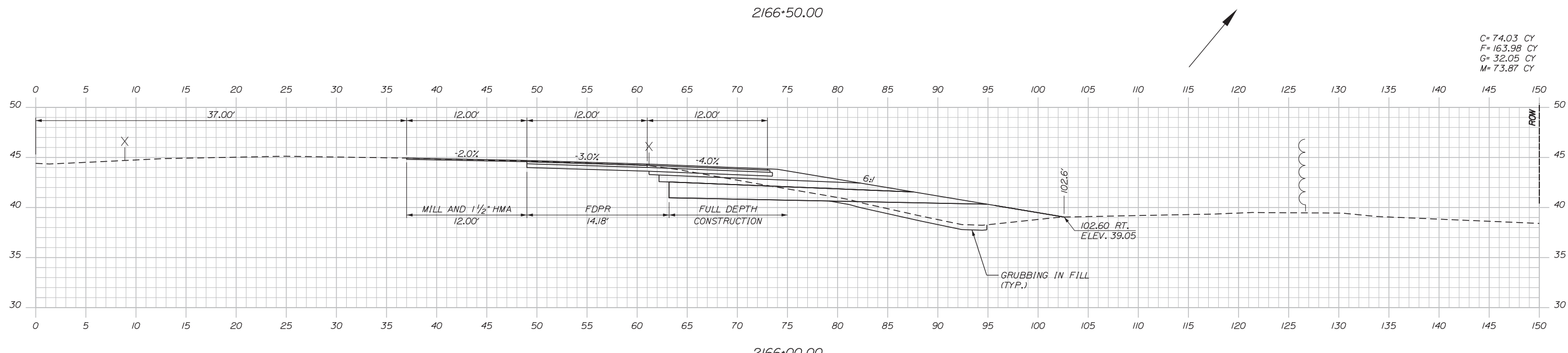
SHEET NUMBER: XS-5
CONTRACT: 2020.03
A45 OF A76

Date: 2/25/2020

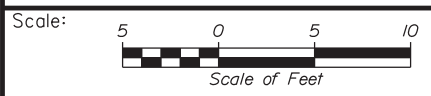
Filename: ...00\HIGHWAY\MSTA_XSec.dgn



C= 71.79 CY
 F= 181.41 CY
 G= 32.16 CY
 M= 73.87 CY



C= 74.03 CY
 F= 163.98 CY
 G= 32.05 CY
 M= 73.87 CY



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

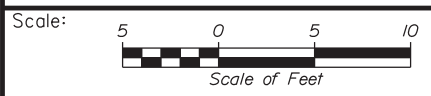
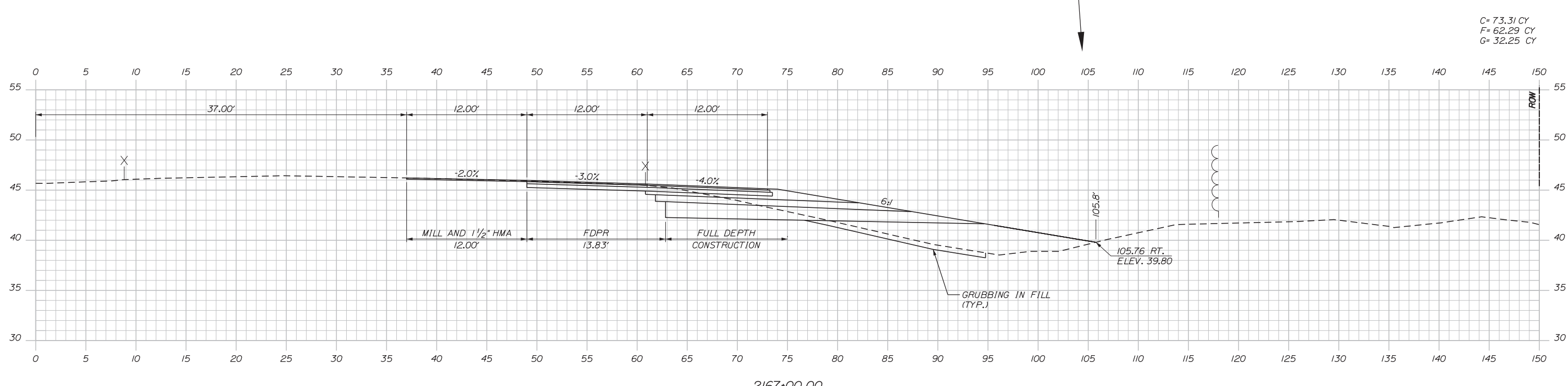
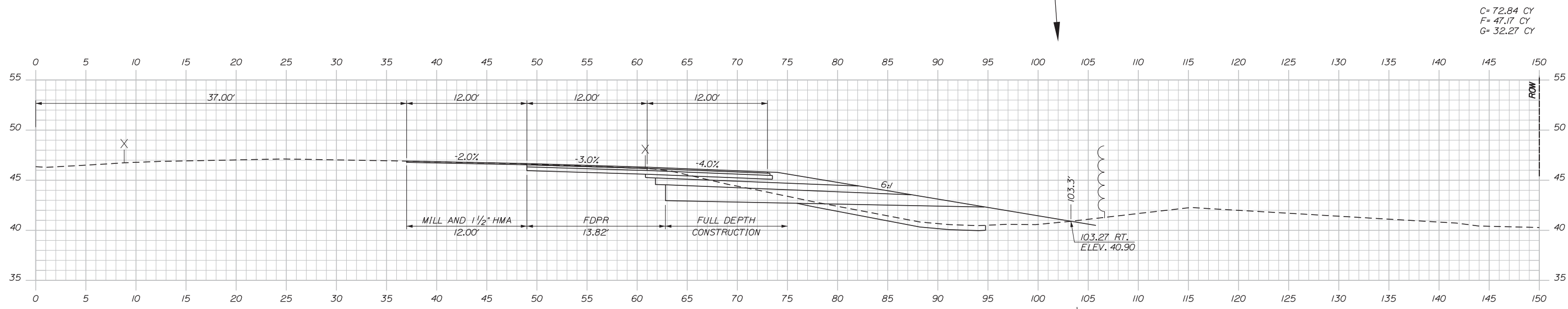
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 STA. 2166+00.00 TO STA. 2166+50.00

SHEET NUMBER: XS-6
 CONTRACT: 2020.03
 A46 OF A76

Date: 2/25/2020

Filename: ...100\HIGHWAY\MSTA\XSec.dgn



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

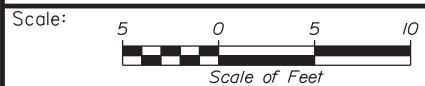
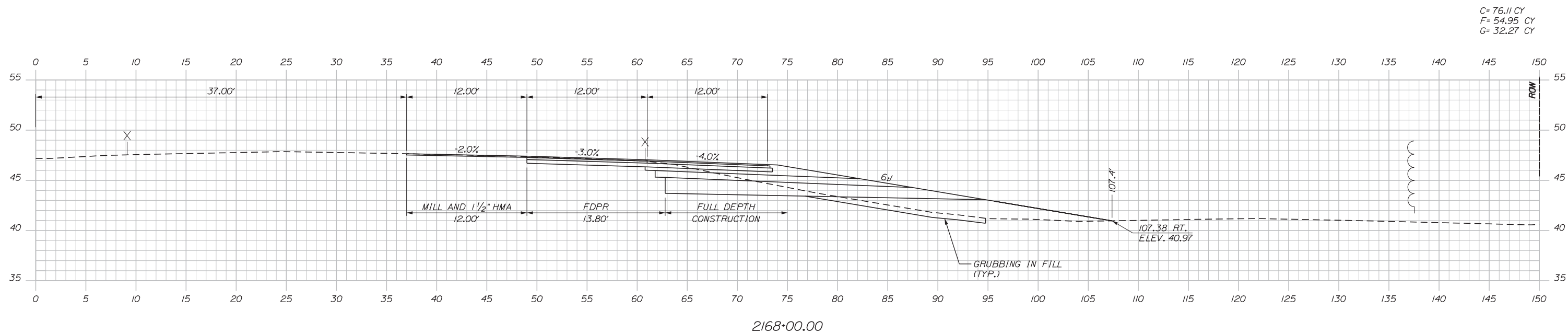
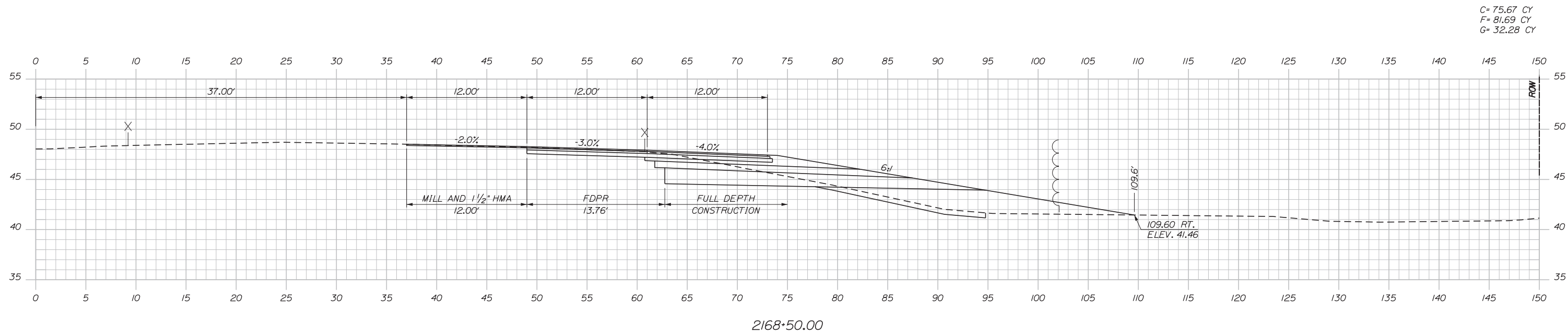
EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 STA. 2167+00.00 TO STA. 2167+50.00

SHEET NUMBER: XS-7
 A47 OF A76

CONTRACT: 2020.03

Date: 2/25/2020

Filename: ... \00.HIGHWAY\MSTA\...XSec.dgn



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EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 STA. 2168+00.00 TO STA. 2168+50.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

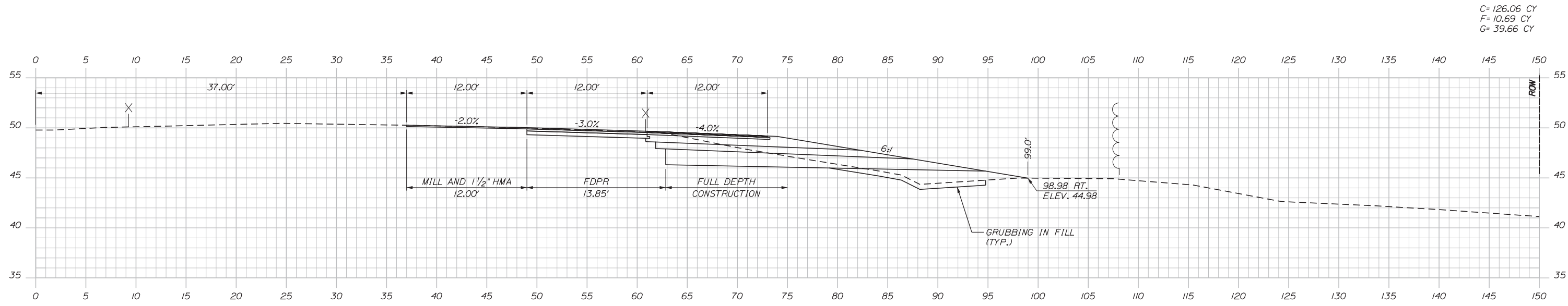
CONTRACT: 2020.03

SHEET NUMBER: XS-8

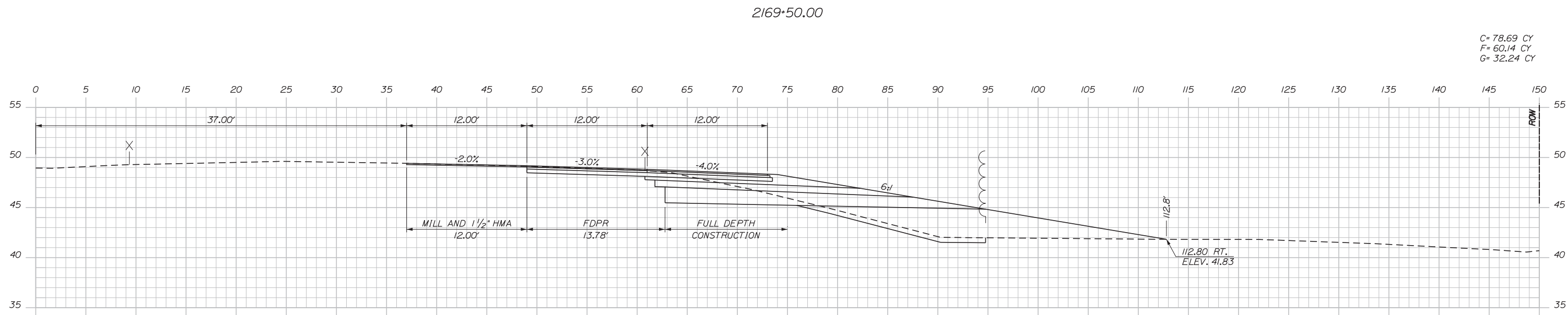
A48 OF A76

Date: 2/25/2020

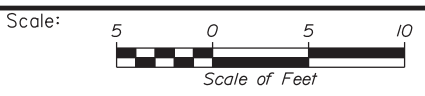
Filename: ...00.HIGHWAY.MSTA...XSec.dgn



C= 126.06 CY
F= 10.69 CY
G= 39.66 CY



C= 78.69 CY
F= 60.14 CY
G= 32.24 CY



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

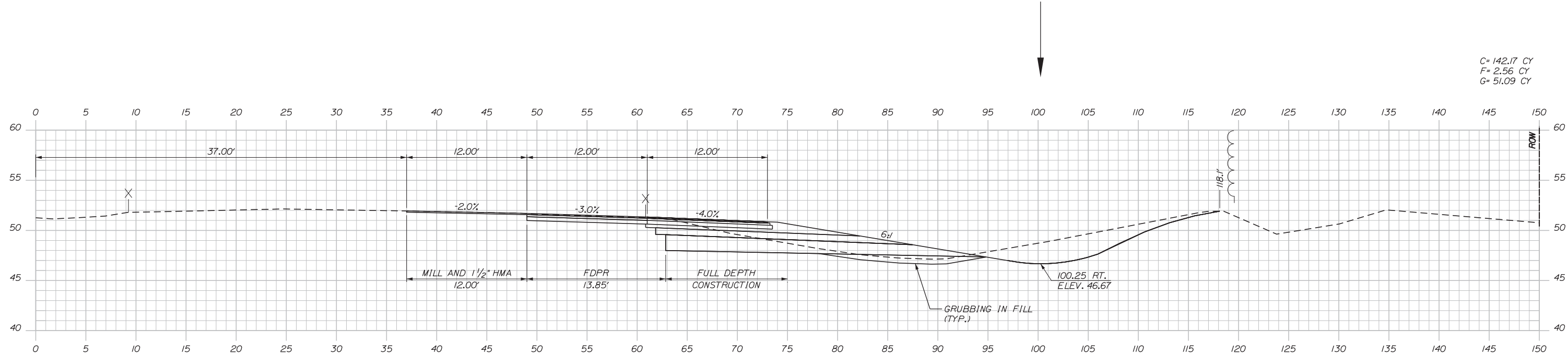
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2169+00.00 TO STA. 2169+50.00

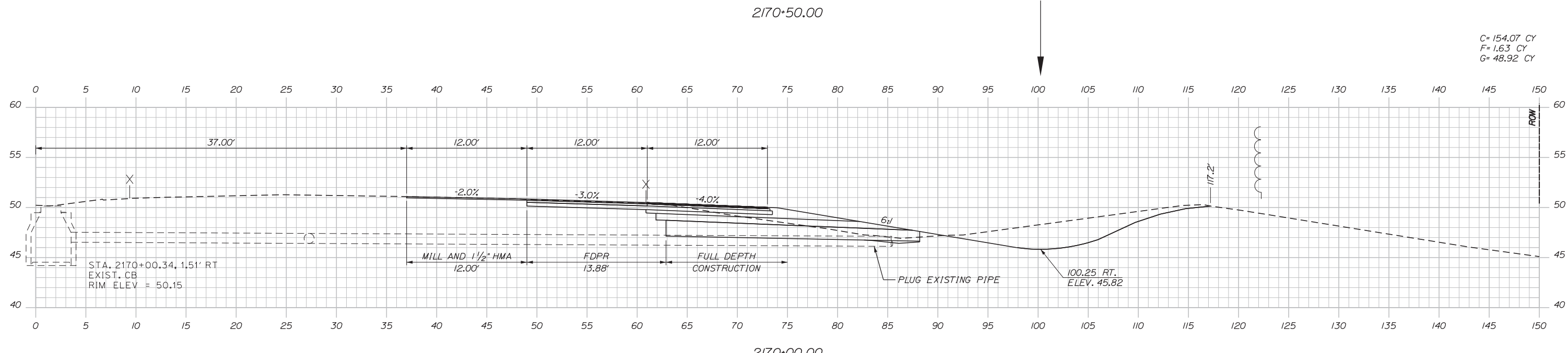
SHEET NUMBER: XS-9
CONTRACT: 2020.03
A49 OF A76

Date: 2/25/2020

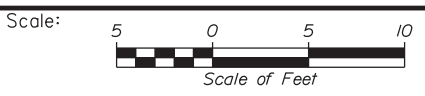
Filename: ... \00.HIGHWAY\MSTA_XSec.dgn



C= 142.17 CY
F= 2.56 CY
G= 51.09 CY



C= 154.07 CY
F= 1.63 CY
G= 48.92 CY



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EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2170+00.00 TO STA. 2170+50.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

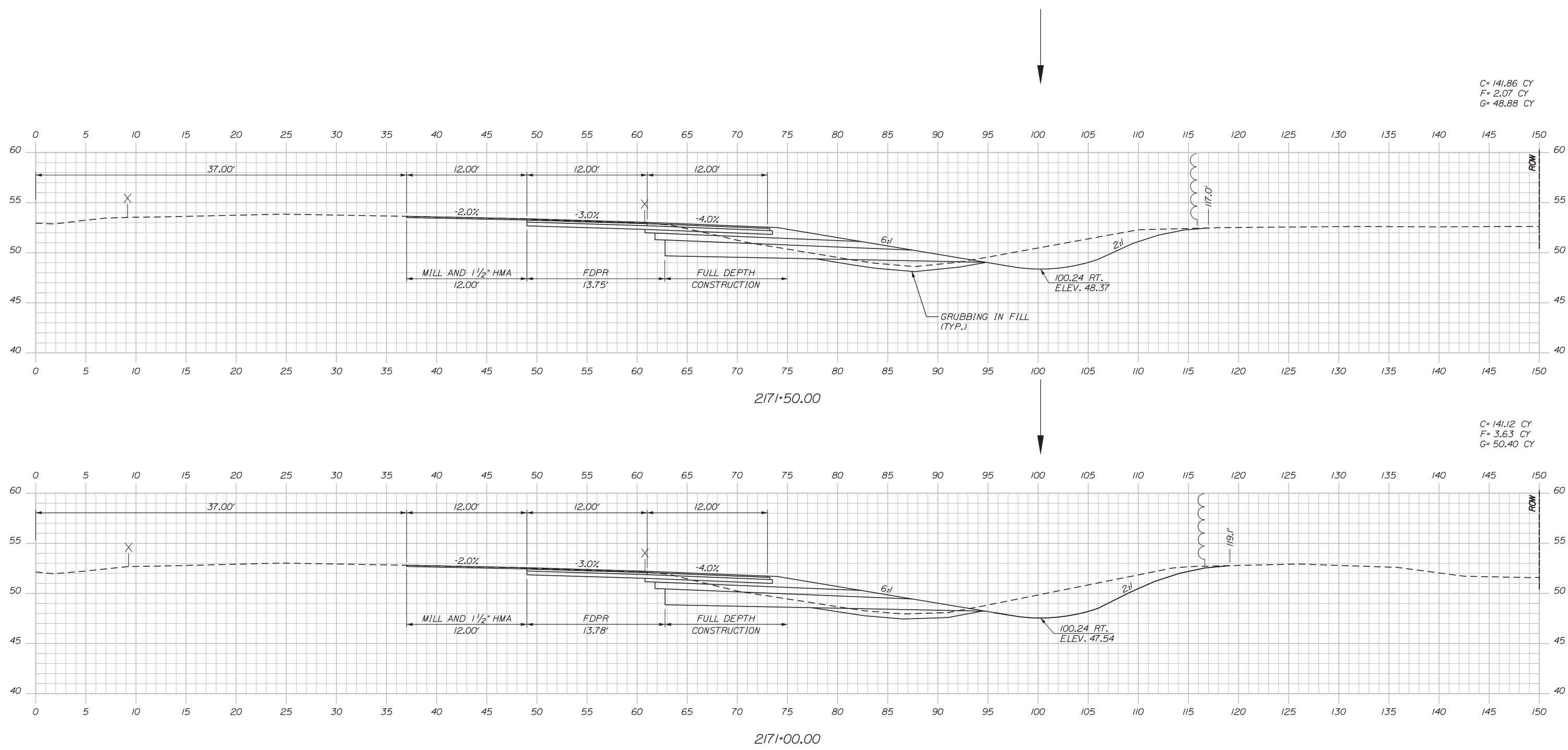
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-10
A50 OF A76

Date: 2/25/2020

Filename: ...100.HIGHWAY.MSTA...XSec.dgn



C= 141.86 CY
F= 2.07 CY
G= 48.88 CY

C= 141.12 CY
F= 3.63 CY
G= 50.40 CY

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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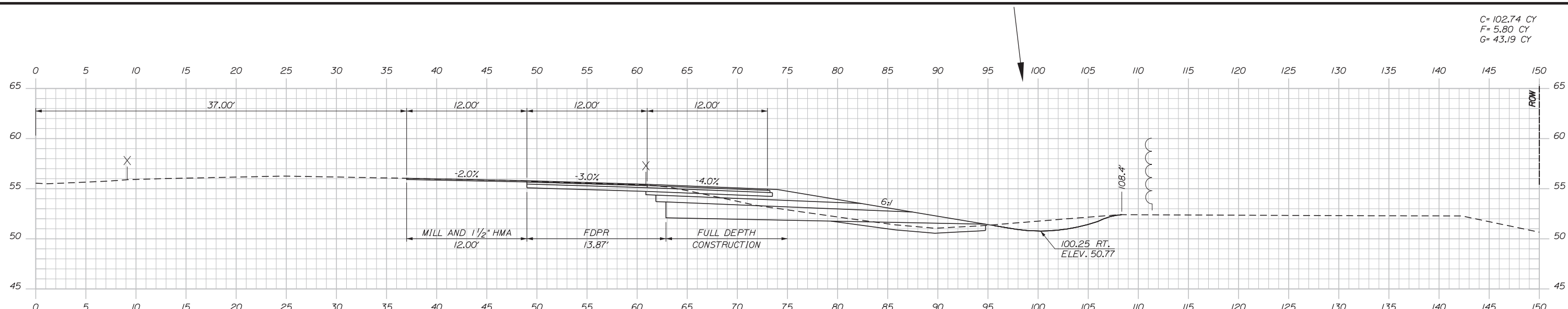
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2171+00.00 TO STA. 2171+50.00

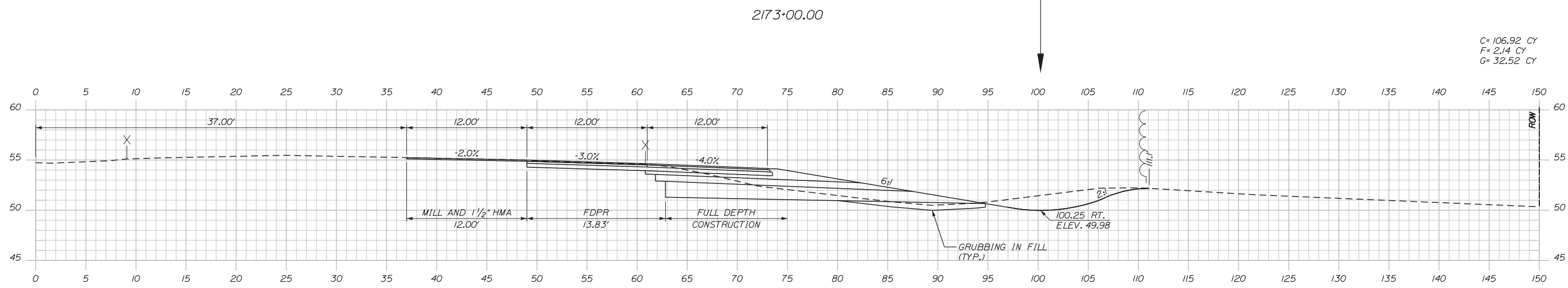
SHEET NUMBER: XS-11
CONTRACT: 2020.03
A 51 OF A76

Date: 2/25/2020

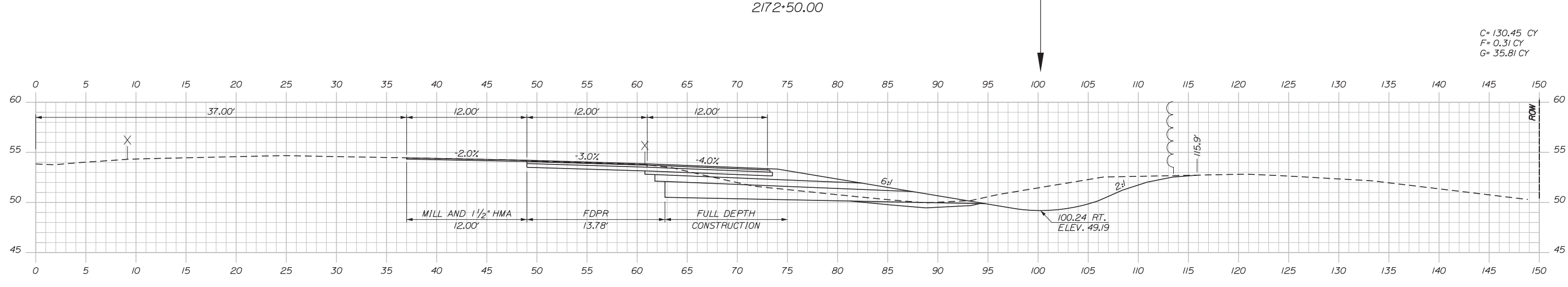
Filename: ...00\HIGHWAY\MSTA_XSec.dgn



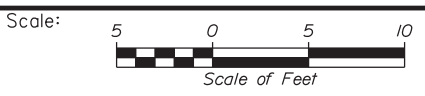
C= 102.74 CY
F= 5.80 CY
G= 43.19 CY



C= 106.92 CY
F= 2.14 CY
G= 32.52 CY



C= 130.45 CY
F= 0.31 CY
G= 35.81 CY



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EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2172+00.00 TO STA. 2173+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

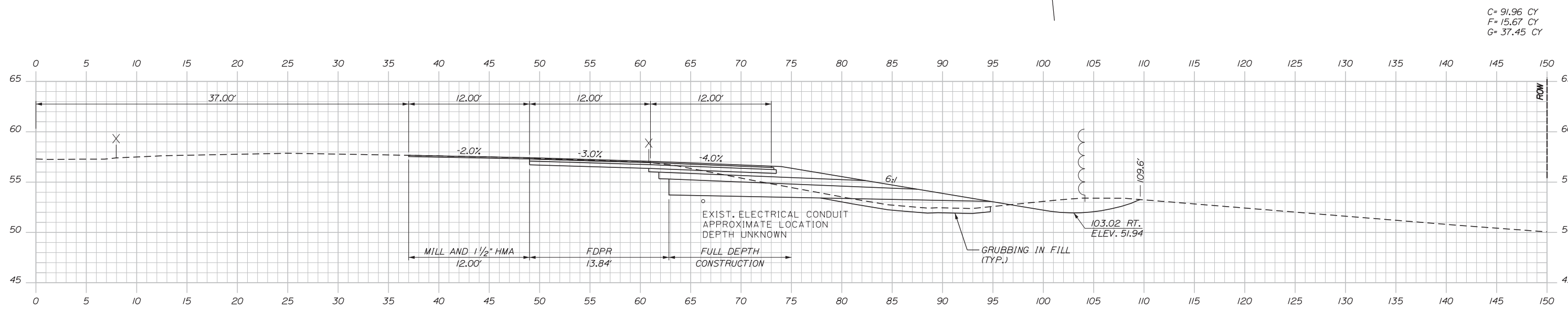
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

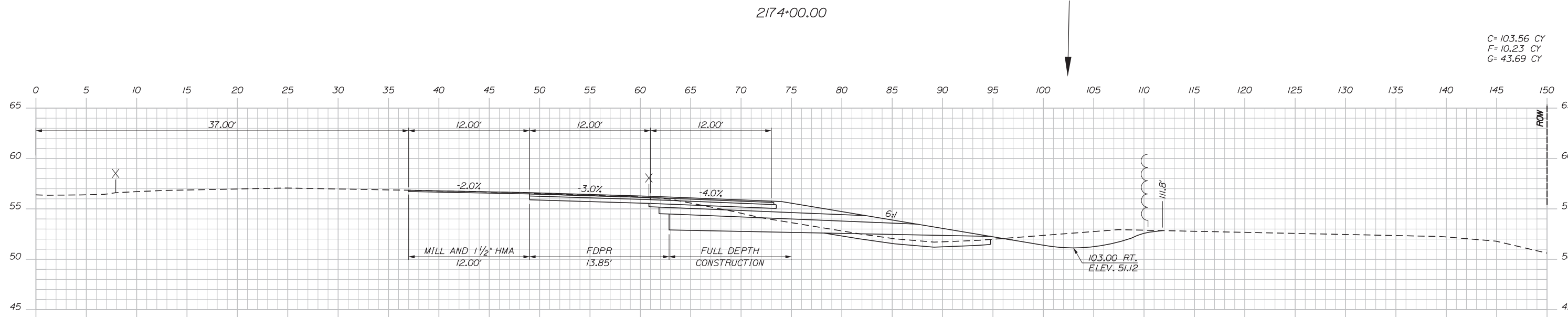
SHEET NUMBER: XS-12
A52 OF A76

Date: 2/25/2020

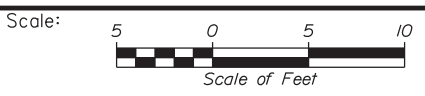
Filename: ... \00.HIGHWAY\MSTA\...XSec.dgn



C= 91.96 CY
F= 15.67 CY
G= 37.45 CY



C= 103.56 CY
F= 10.23 CY
G= 43.69 CY



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EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2173+50.00 TO STA. 2174+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

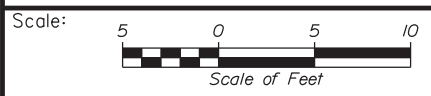
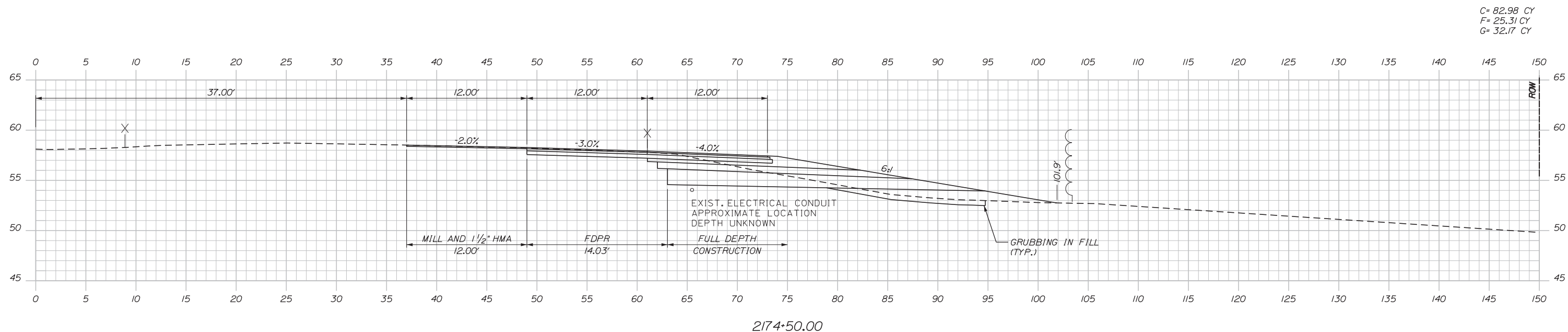
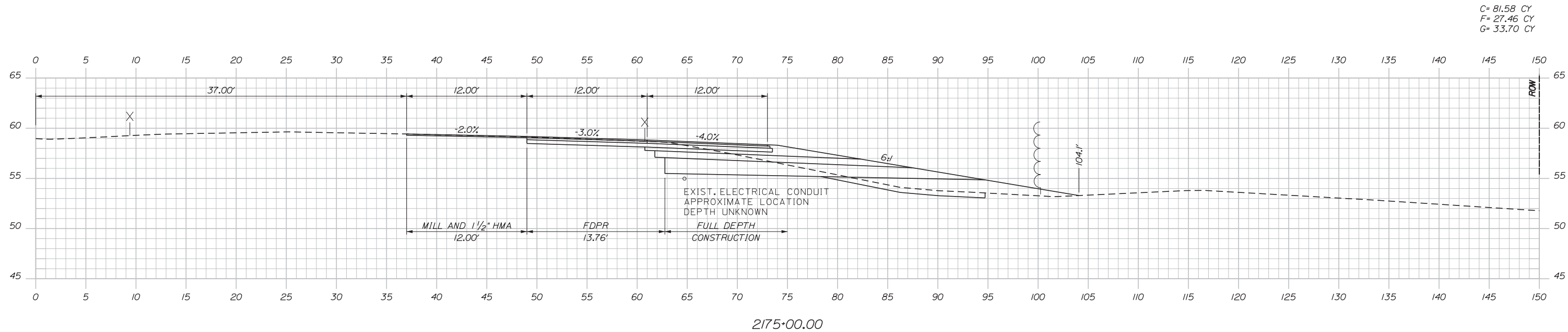
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-13
A53 OF A76

Date: 2/25/2020

Filename: ...00.HIGHWAY\MSTA\...XSec.dgn



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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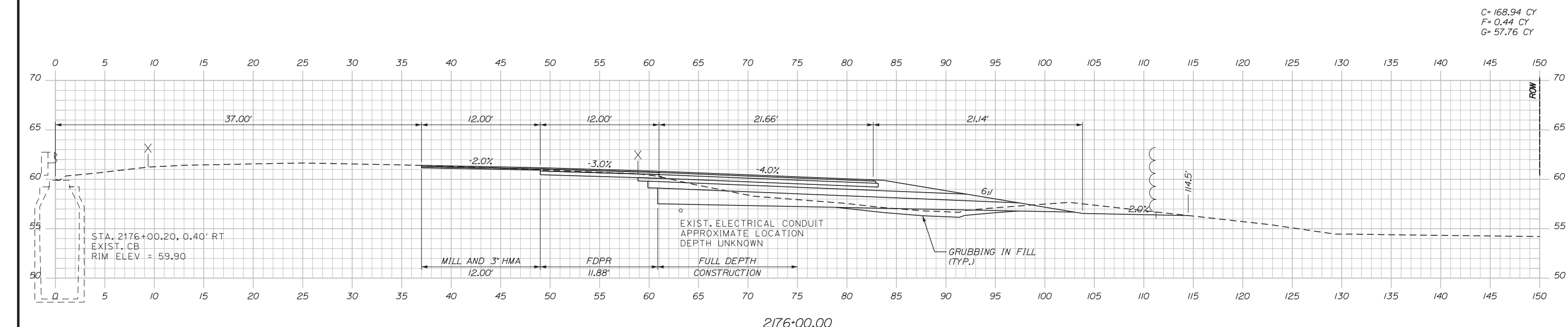
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

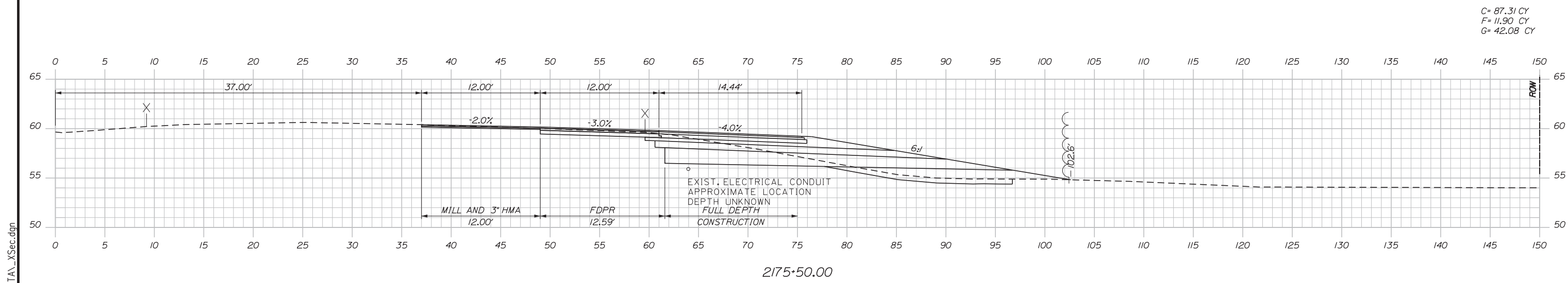
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2174+50.00 TO STA. 2175+00.00

SHEET NUMBER: XS-14
CONTRACT: 2020.03
A54 OF A76

Date: 2/25/2020



C= 168.94 CY
F= 0.44 CY
G= 57.76 CY



C= 87.31 CY
F= 11.90 CY
G= 42.08 CY

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

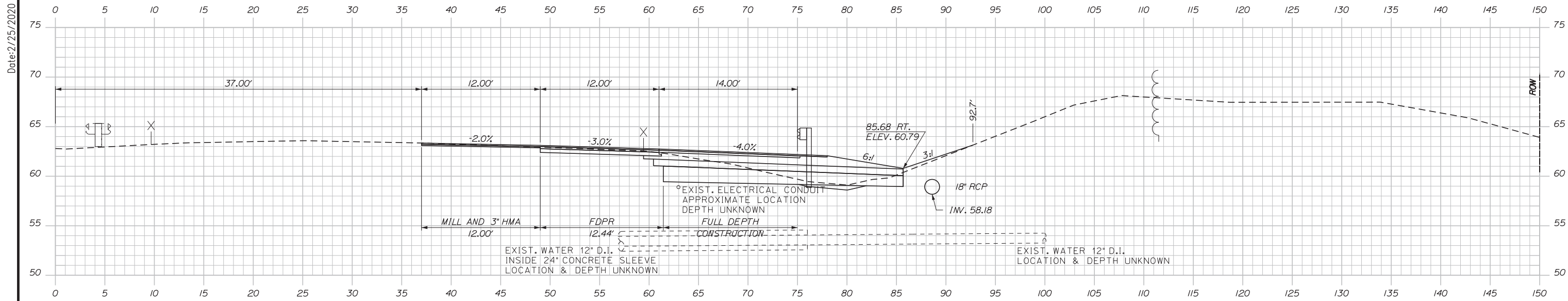
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2175+50.00 TO STA. 2176+00.00

SHEET NUMBER: XS-15
A55 OF A76

CONTRACT: 2020.03

Filename: ...100.HIGHWAY\MSTA...XSec.dgn

Date: 2/25/2020

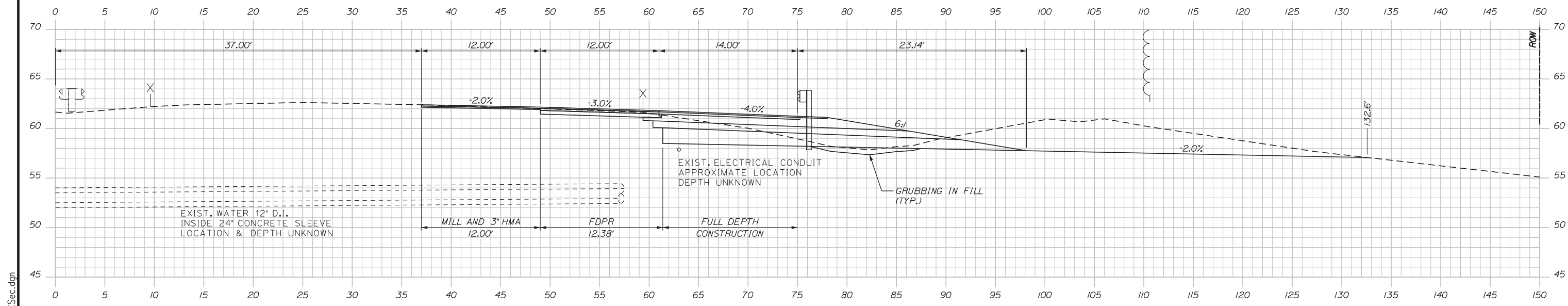


C= 91.41 CY
F= 0.87 CY
G= 22.19 CY

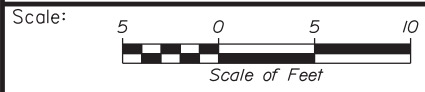
2177+00.00

STA. 2176+88.03, RT. TO
STA. 2177+45.00, RT.
INSTALL 56' X 18" RCP, CLASS III
INV. OUT = 58.12

C= 162.08 CY
F= 0.91 CY
G= 45.50 CY



2176+50.00



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EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2176+50.00 TO STA. 2177+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

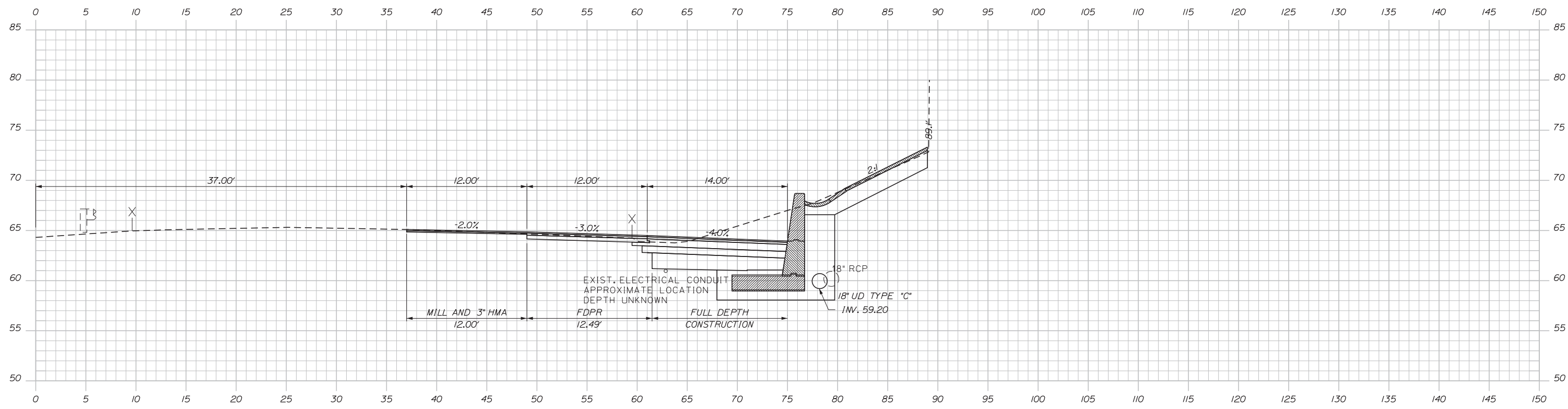
SHEET NUMBER: XS-16

A56 OF A76

Filename: ...00.HIGHWAY\MSTA_XSec.dgn

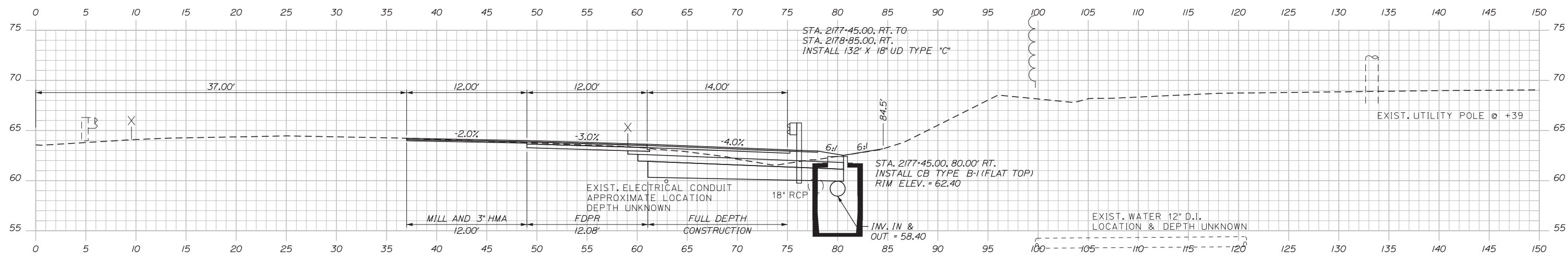
C= 115.40 CY
 F= 0.00 CY
 G= 0.00 CY

Date: 2/25/2020



2178+00.00

C= 110.85 CY
 F= 0.06 CY
 G= 9.95 CY



2177+50.00

Filename: ...100.HIGHWAY\MSTA1_XSec.dgn

Scale:

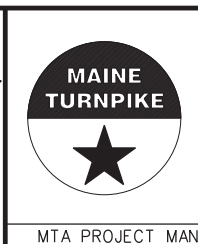
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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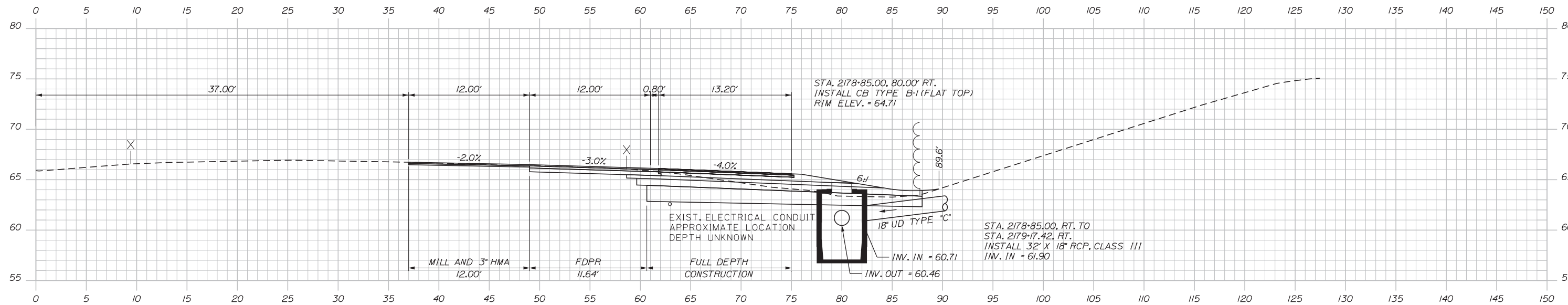
**THE GOLD STAR
 MEMORIAL HIGHWAY**

EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 STA. 2177+50.00 TO STA. 2178+00.00

SHEET NUMBER: XS-17
 CONTRACT: 2020.03
 A57 OF A76

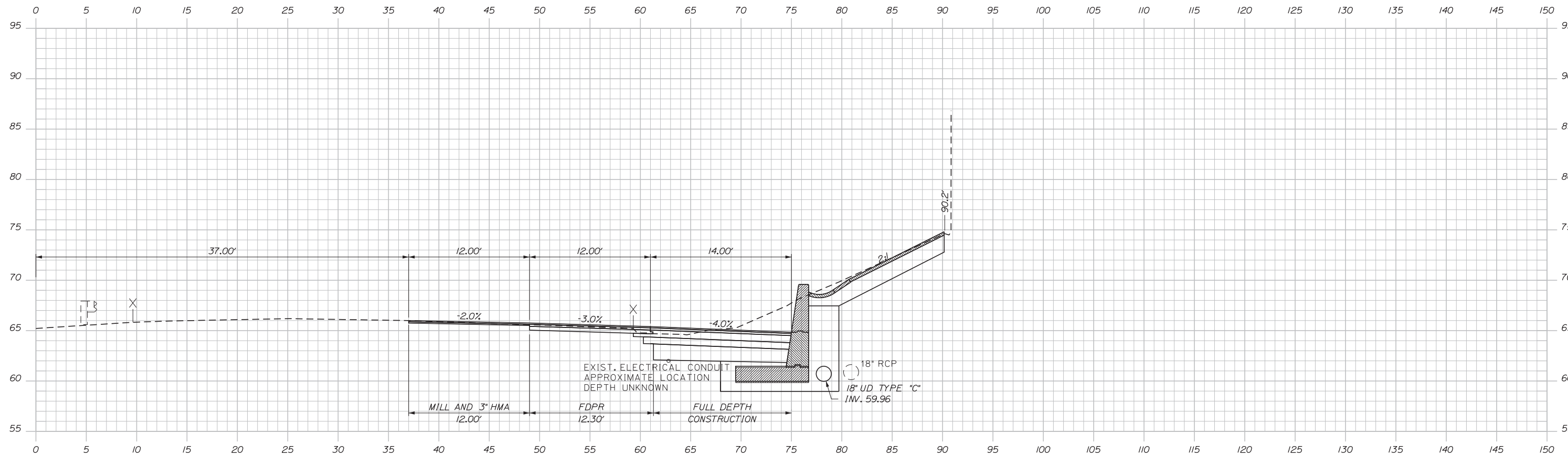
C= 152.36 CY
F= 0.27 CY
G= 41.78 CY

Date: 2/25/2020

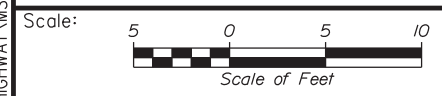


2179+00.00

C= 112.89 CY
F= 0.27 CY
G= 13.57 CY



2178+50.00



Designed by:



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SCARBOROUGH, ME 04074
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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2178+50.00 TO STA. 2179+00.00**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

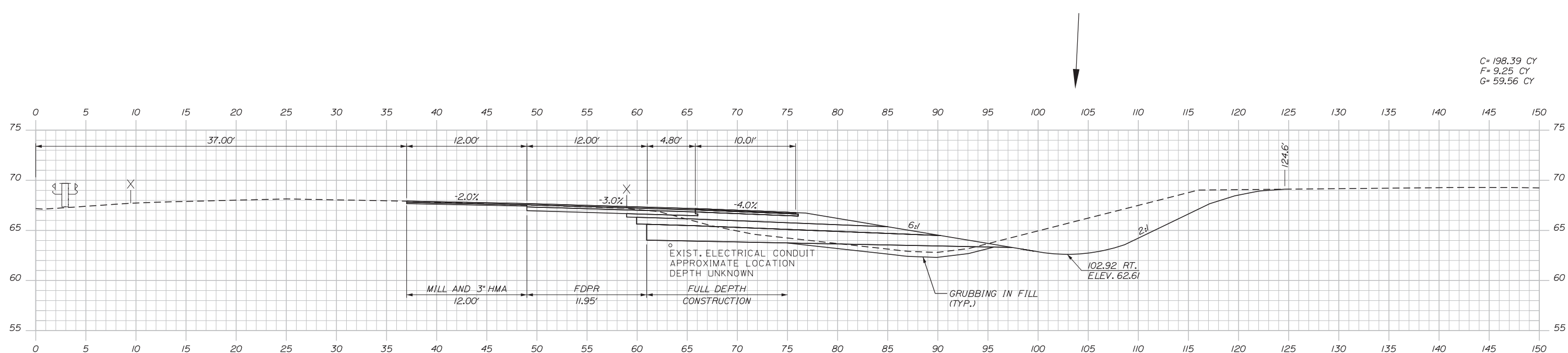
CONTRACT: 2020.03

SHEET NUMBER: XS-18
A58 OF A76

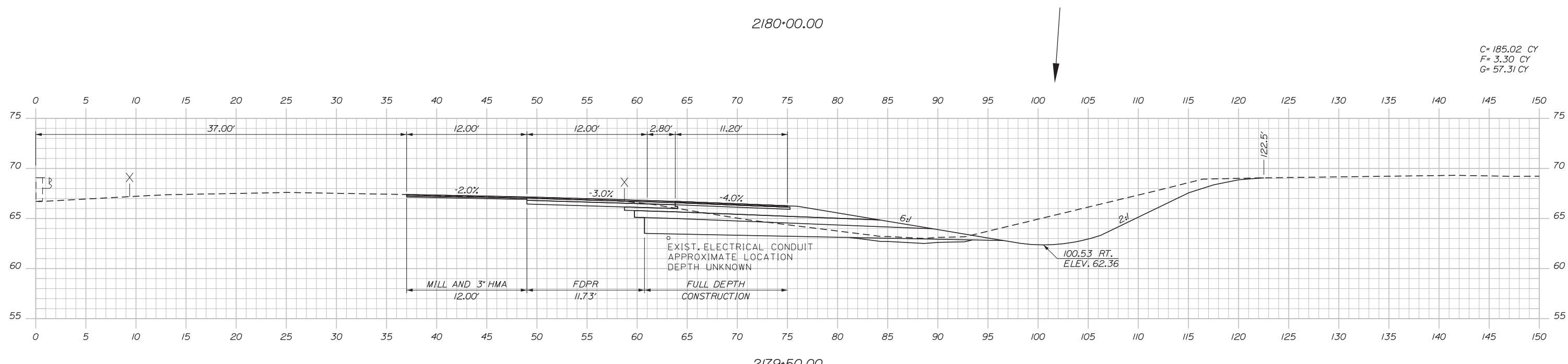
Filename: ...100.HIGHWAY\MSTA\...XSec.dgn

Date: 2/25/2020

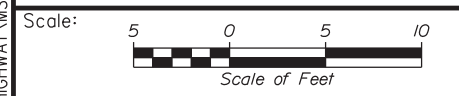
Filename: ...00.HIGHWAY\MSTA_XSec.dgn



C= 198.39 CY
F= 9.25 CY
G= 59.56 CY



C= 185.02 CY
F= 3.30 CY
G= 57.31 CY



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**THE GOLD STAR
MEMORIAL HIGHWAY**

**EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2179+50.00 TO STA. 2180+00.00**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

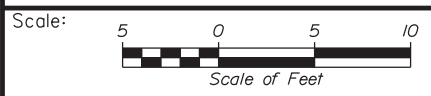
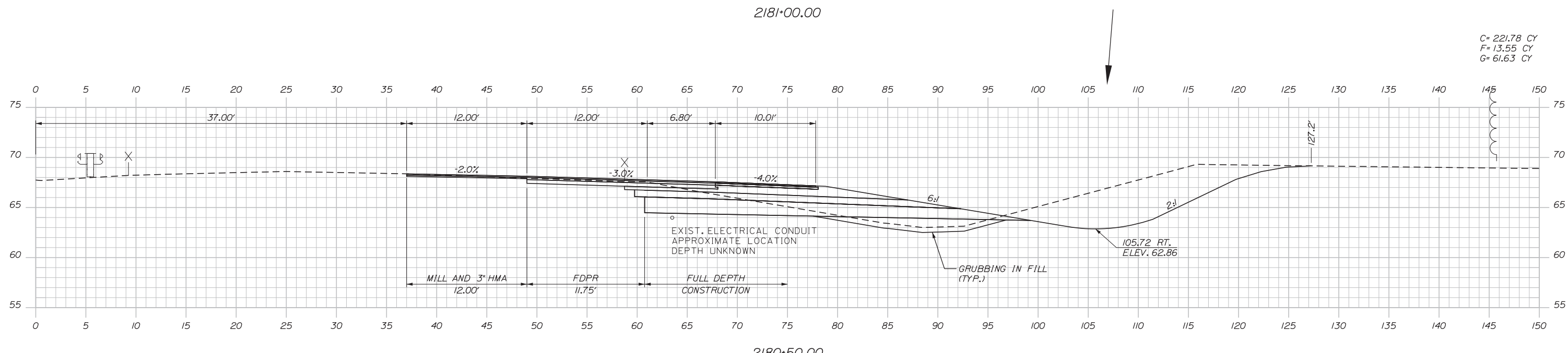
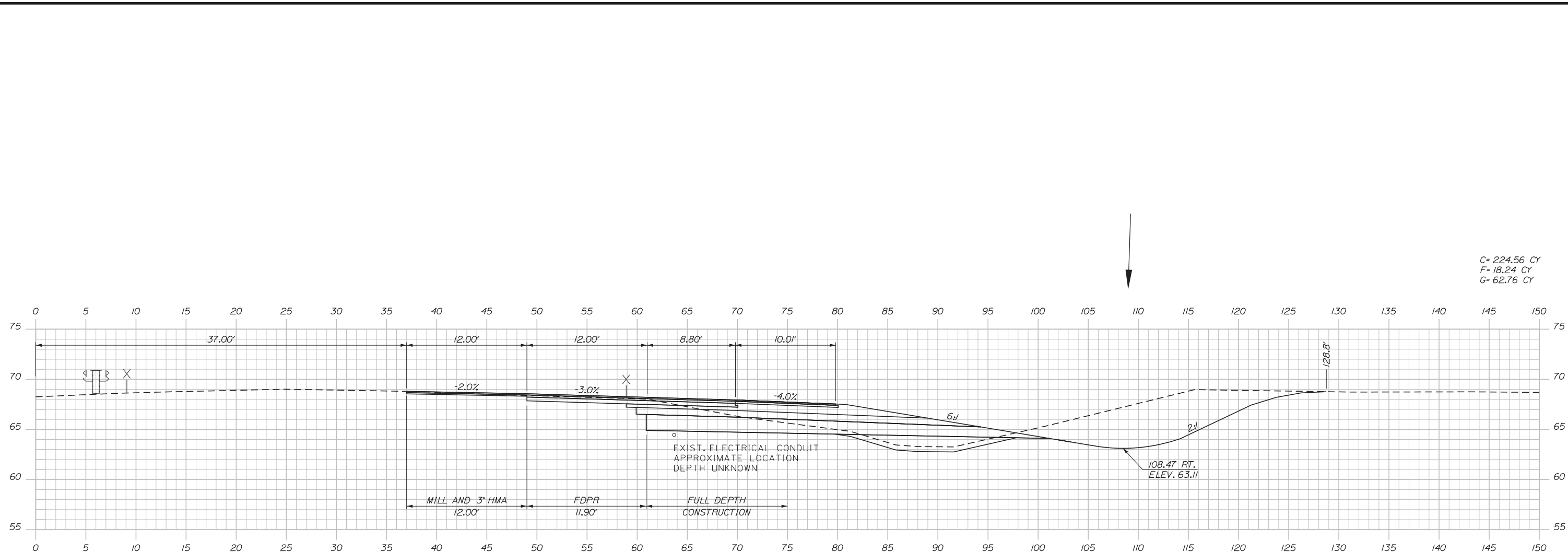
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-19
A59 OF A76

Date: 2/25/2020

Filename: ...00\HIGHWAY\MSTA\...XSec.dgn



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

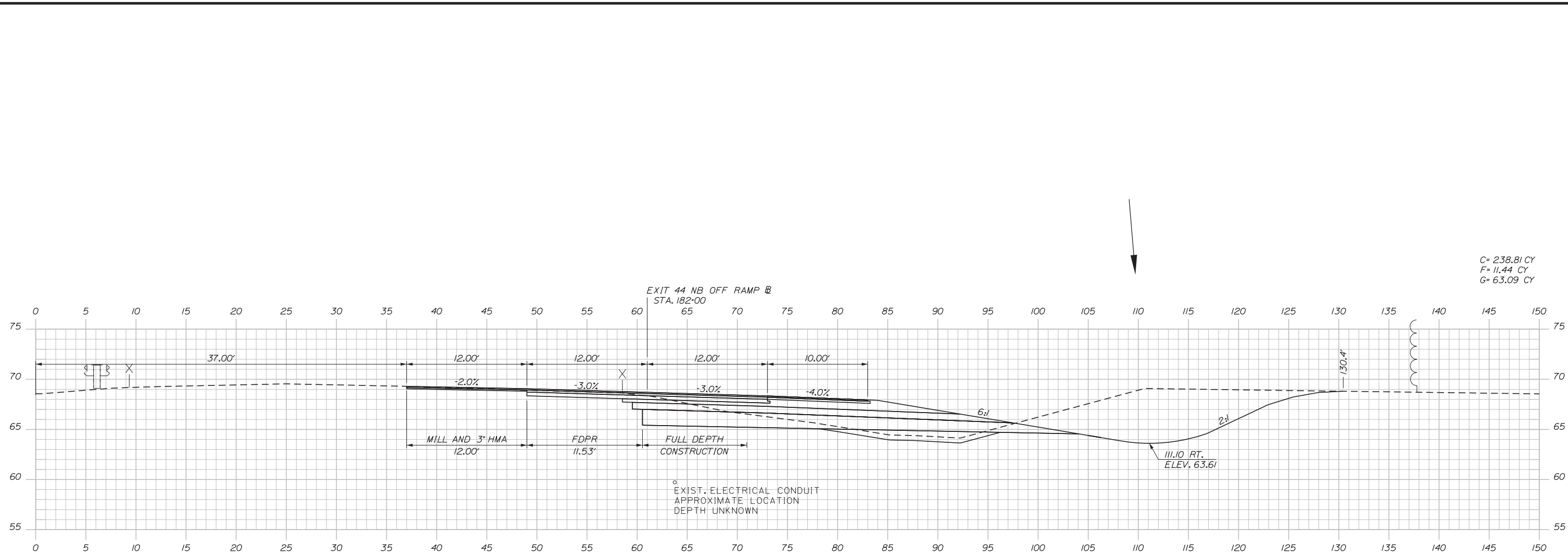
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2180+50.00 TO STA. 2181+00.00

SHEET NUMBER: XS-20
A60 OF A76

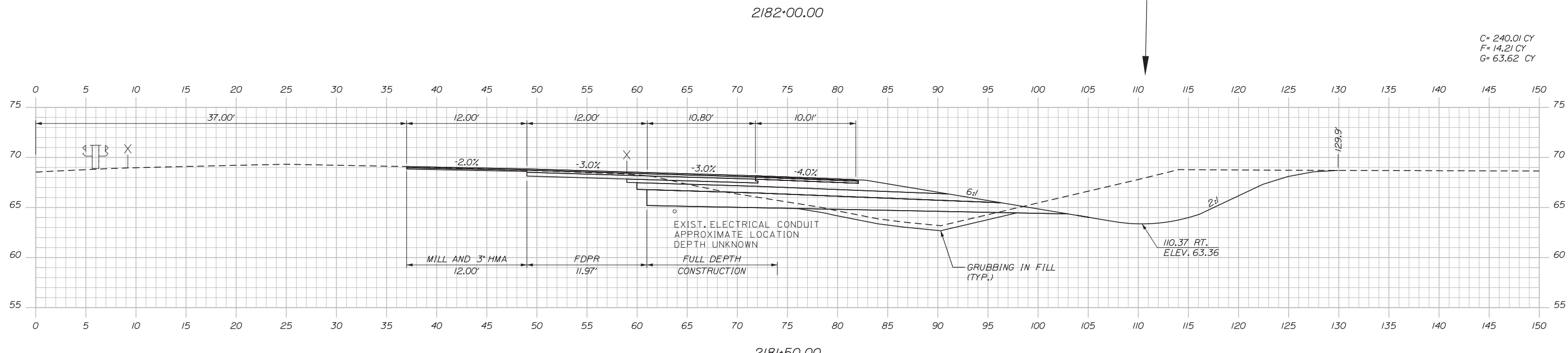
CONTRACT: 2020.03

Date: 2/25/2020

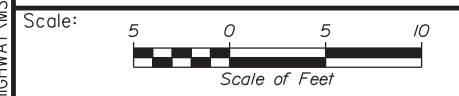
Filename: ...00.HIGHWAY.MSTA...XSec.dgn



C= 238.81 CY
F= 11.44 CY
G= 63.09 CY



C= 240.01 CY
F= 14.21 CY
G= 63.62 CY



Designed by:

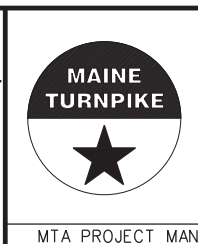
Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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TEL (207) 887-3448
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**THE GOLD STAR
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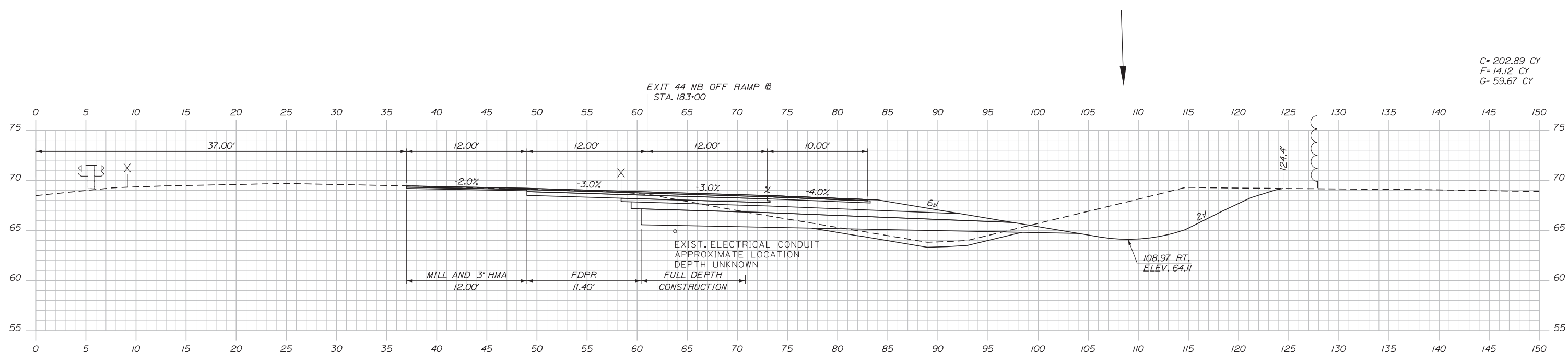
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2181+50.00 TO STA. 2182+00.00

SHEET NUMBER: XS-21
CONTRACT: 2020.03
A 61 OF A 76

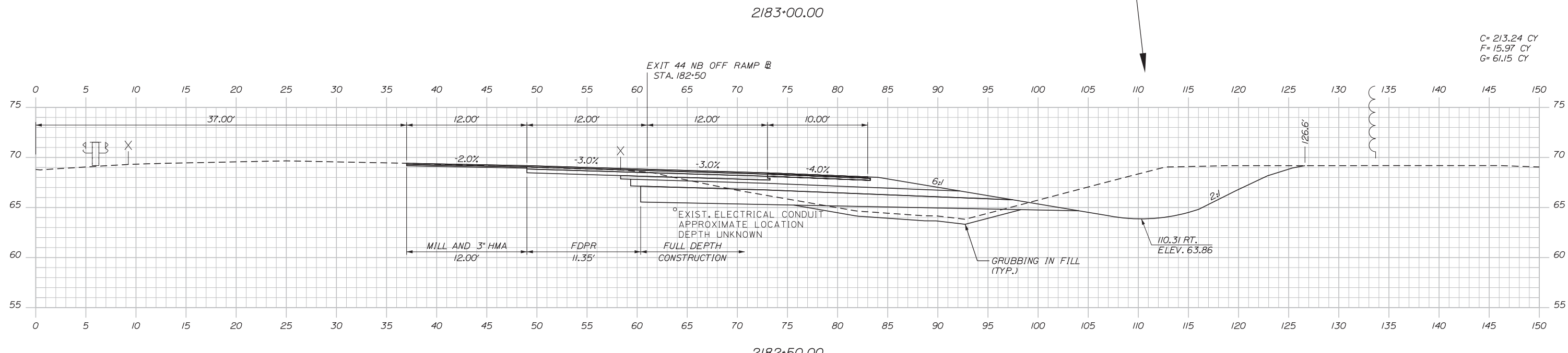
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

Date: 2/25/2020

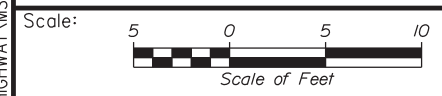
Filename: ...00.HIGHWAY\MSTA_XSec.dgn



C= 202.89 CY
F= 14.12 CY
G= 59.67 CY



C= 213.24 CY
F= 15.97 CY
G= 61.15 CY



Designed by:



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EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2182+50.00 TO STA. 2183+00.00

No.	Revision	By	Date

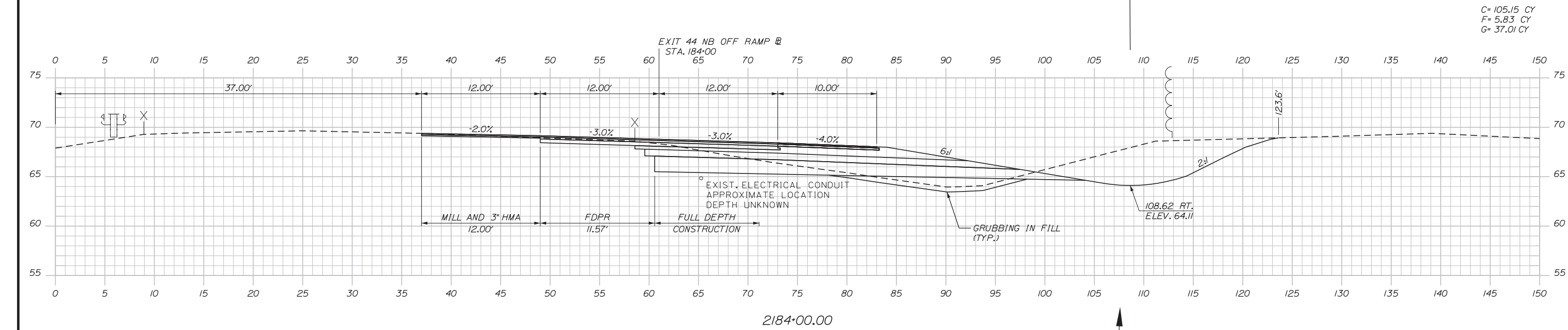
CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE			
Designed	JMB	02\20	Checked
Drawn	EJB	02\20	In Charge of
			GAE
			02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

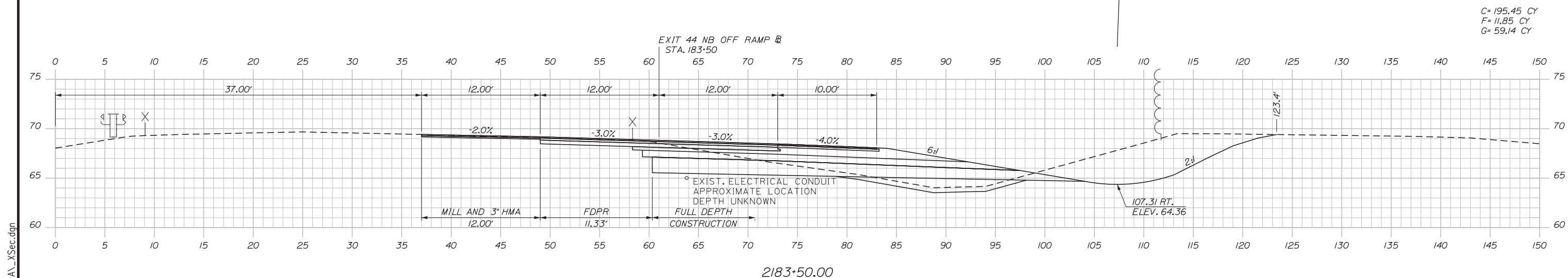
CONTRACT: 2020.03

SHEET NUMBER: XS-22
A62 OF A76

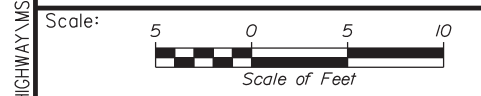
Date: 2/25/2020



C= 105.15 CY
F= 5.83 CY
G= 37.01 CY



C= 195.45 CY
F= 11.85 CY
G= 59.14 CY



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

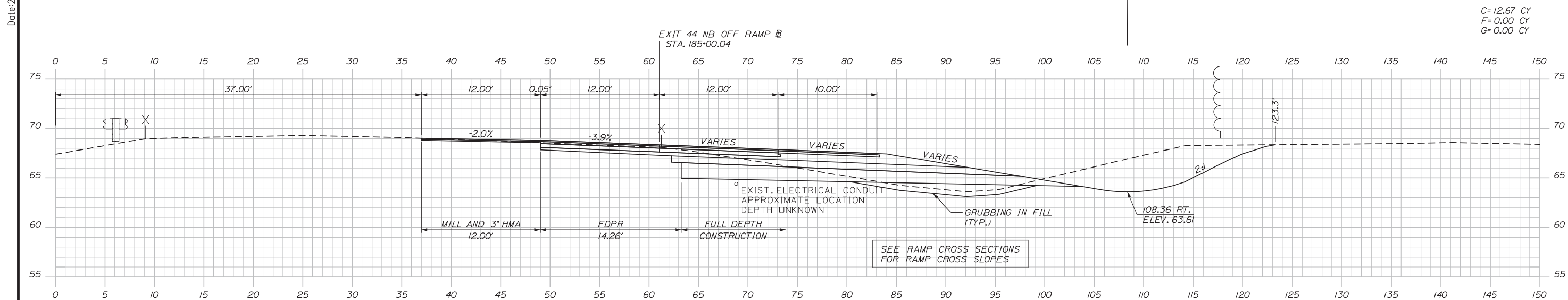
STANTEC CONSULTING SERVICES INC.
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SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376



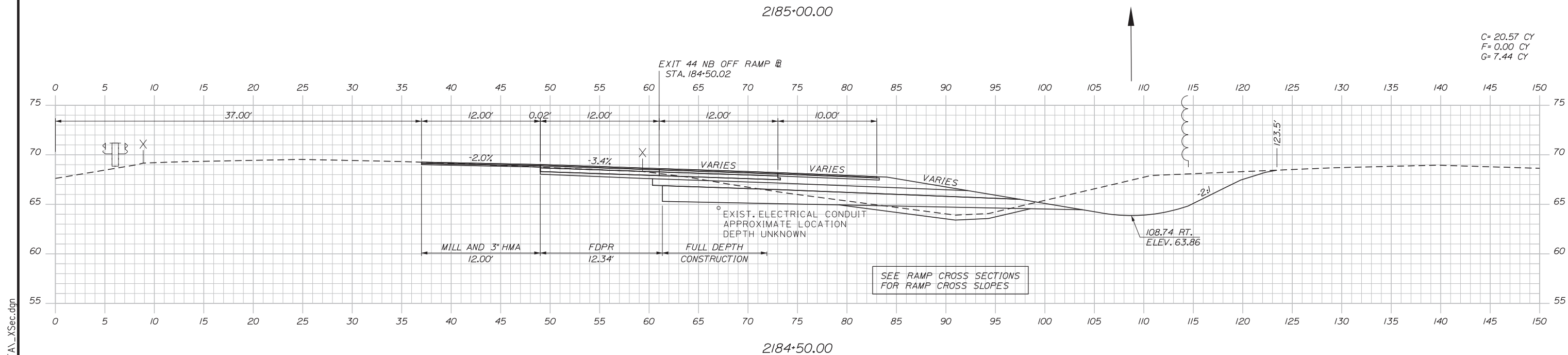
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2183+50.00 TO STA. 2184+00.00

Filename: ...:\00.HIGHWAY\MSTA\...XSec.dgn

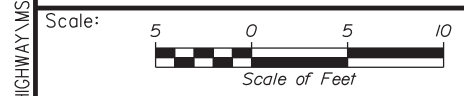
Date: 2/25/2020



C= 12.67 CY
F= 0.00 CY
G= 0.00 CY



C= 20.57 CY
F= 0.00 CY
G= 7.44 CY



Designed by:



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EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2184+50.00 TO STA. 2185+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE					
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

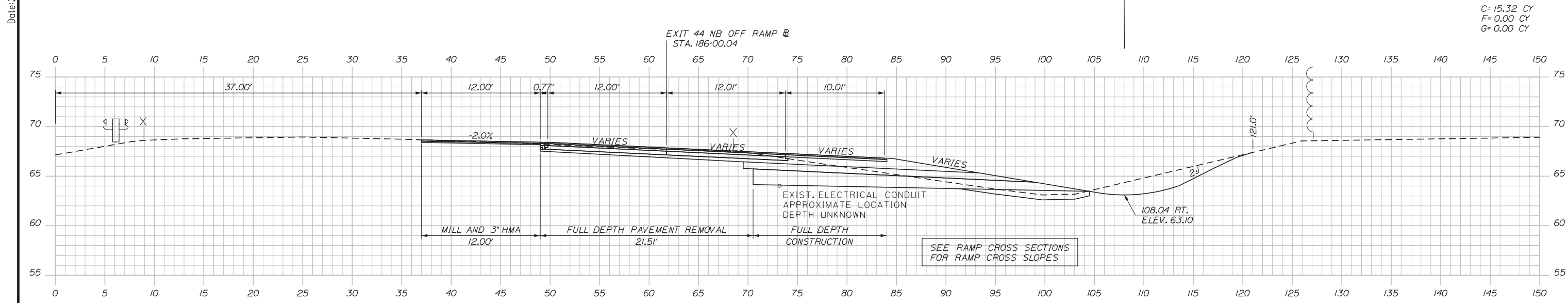
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

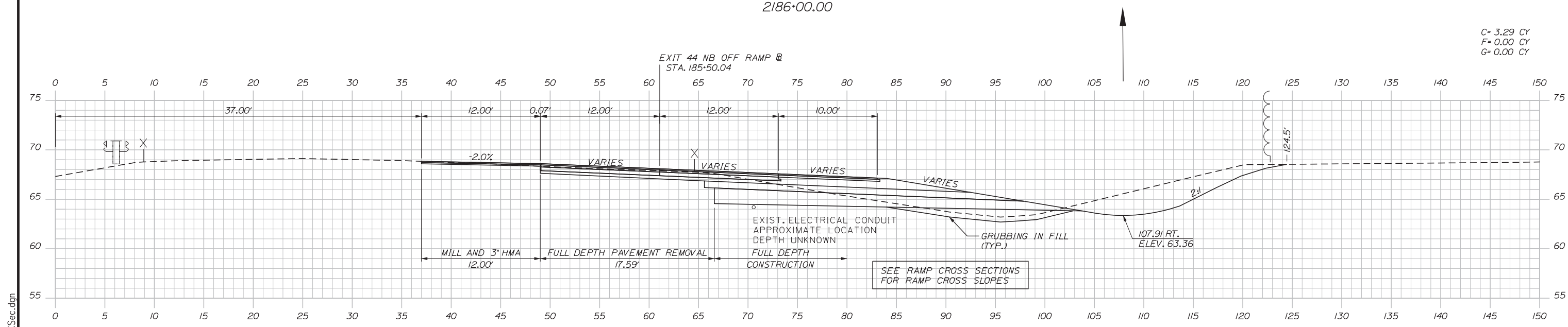
SHEET NUMBER: XS-24
A64 OF A76

Filename: ...100\HIGHWAY\MSTA_XSec.dgn

Date: 2/25/2020



C= 15.32 CY
F= 0.00 CY
G= 0.00 CY



C= 3.29 CY
F= 0.00 CY
G= 0.00 CY



Designed by:

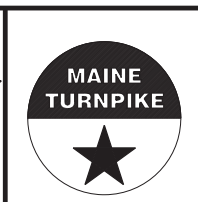
Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376



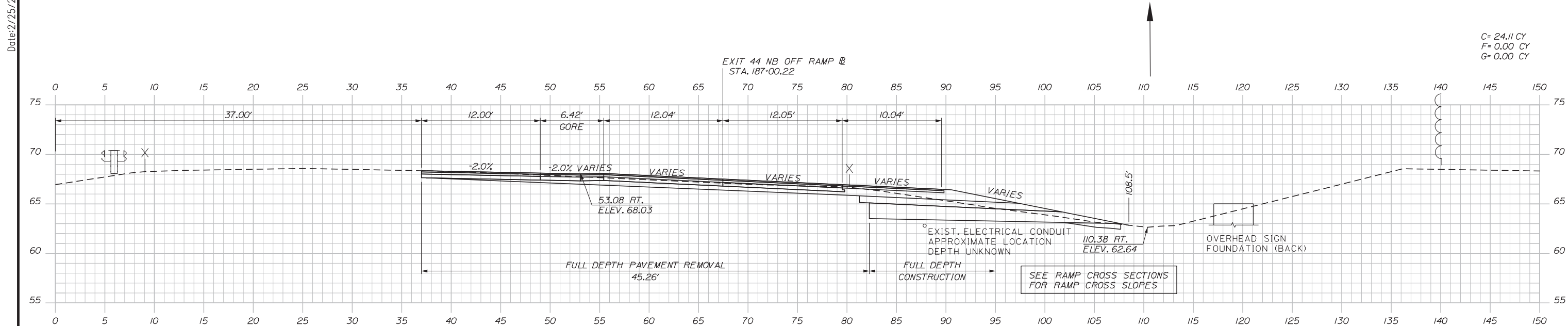
**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2185+50.00 TO STA. 2186+00.00

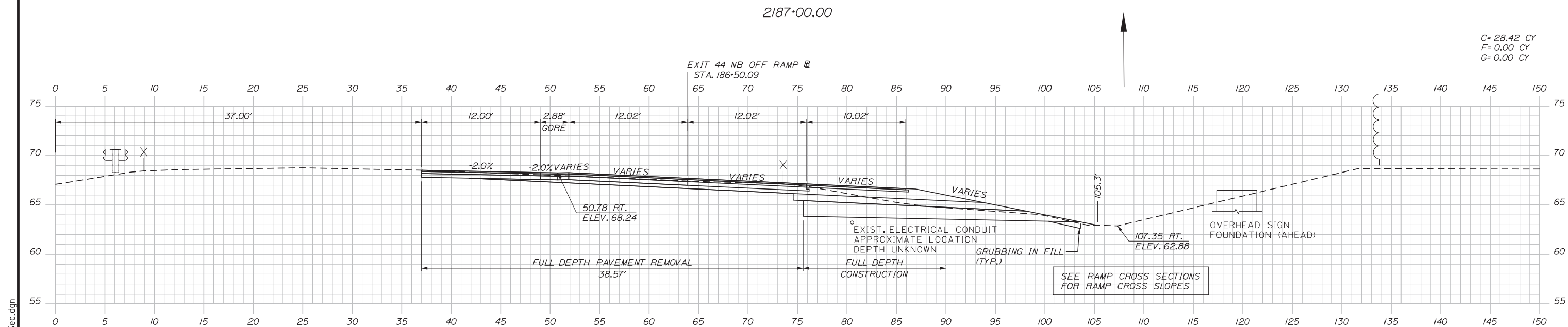
SHEET NUMBER: XS-25
CONTRACT: 2020.03
A65 OF A76

Filename: ...\\00\HIGHWAY\MSTA_XSec.dgn

Date: 2/25/2020



C= 24.11 CY
F= 0.00 CY
G= 0.00 CY



C= 28.42 CY
F= 0.00 CY
G= 0.00 CY



Designed by:

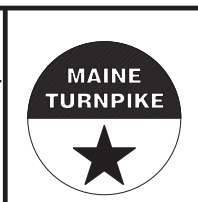
Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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**THE GOLD STAR
MEMORIAL HIGHWAY**

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2186+50.00 TO STA. 2187+00.00

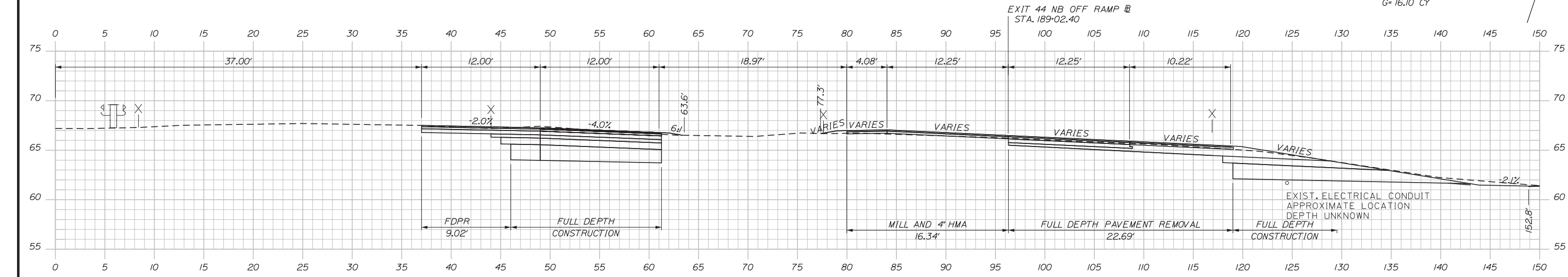
Filename: ...100\HIGHWAY\MSTA\...XSec.dgn

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

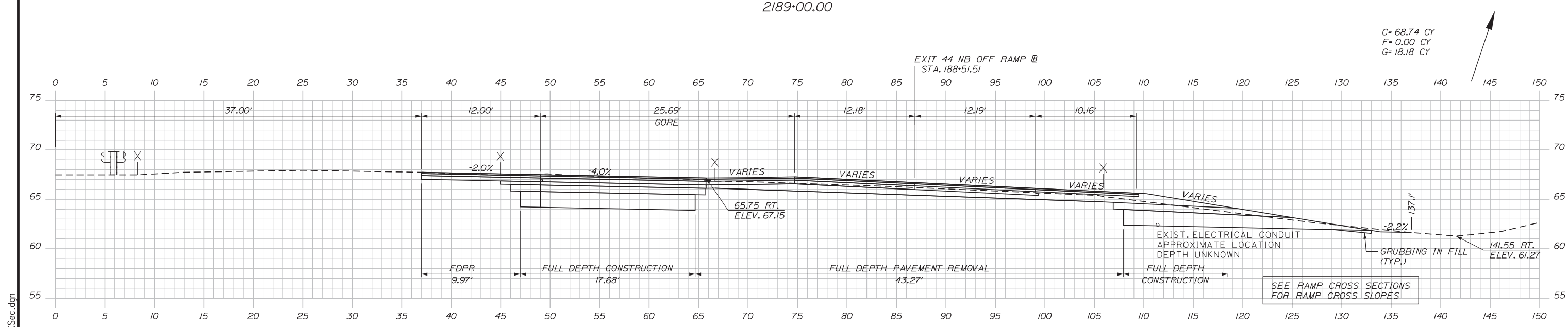
SHEET NUMBER: XS-26
A66 OF A76

Date: 2/25/2020



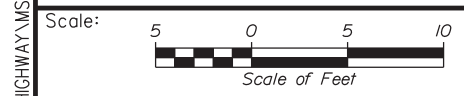
SEE RAMP CROSS SECTIONS FOR RAMP CROSS SLOPES

C= 104.52 CY
F= 0.27 CY
G= 16.10 CY



C= 68.74 CY
F= 0.00 CY
G= 18.18 CY

SEE RAMP CROSS SECTIONS FOR RAMP CROSS SLOPES



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EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2188+50.00 TO STA. 2189+00.00

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE			
Designed	JMB	02\20	Checked
Drawn	EJB	02\20	In Charge of
			GAE
			02\20

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

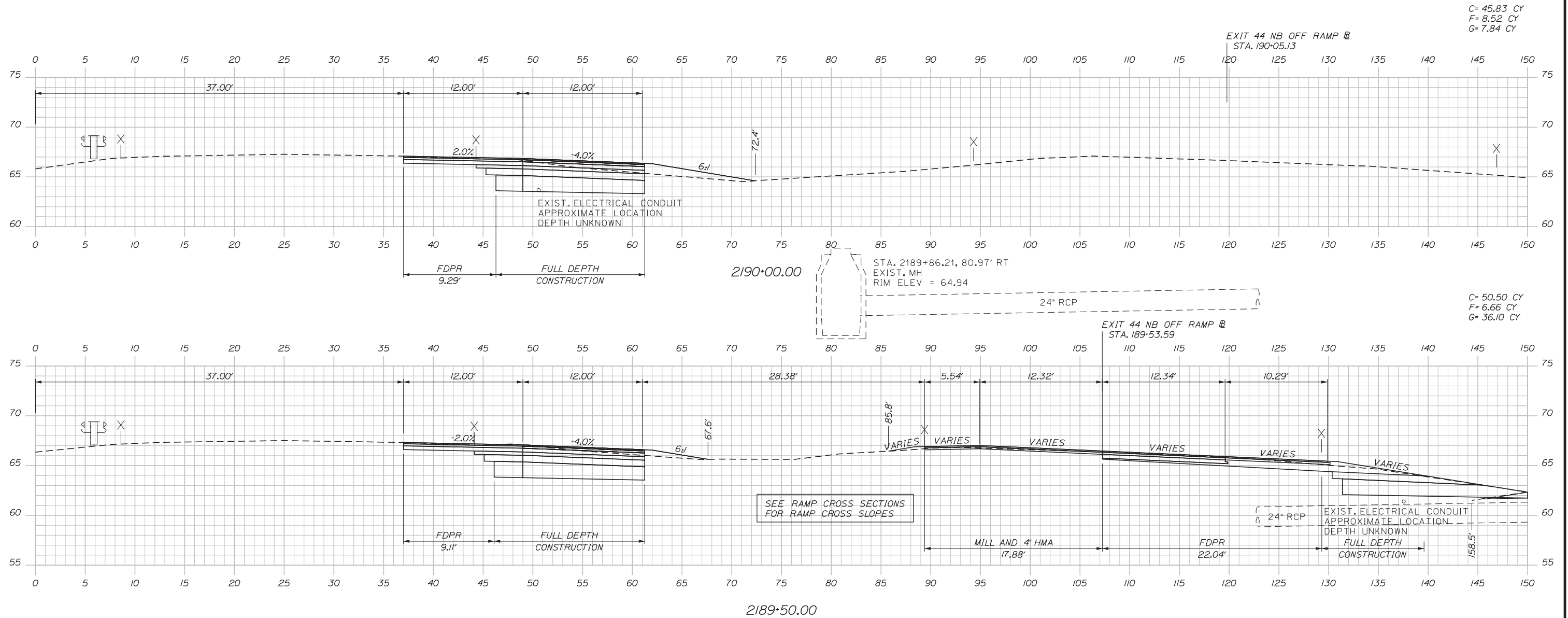
CONTRACT: 2020.03

SHEET NUMBER: XS-28
A68 OF A76

Filename: ...100.HIGHWAY\MSTA...XSec.dgn

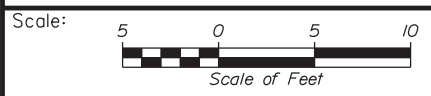
Date: 2/25/2020

Filename: ...00.HIGHWAY\MSTA_XSec.dgn



C= 45.83 CY
F= 8.52 CY
G= 7.84 CY

C= 50.50 CY
F= 6.66 CY
G= 36.10 CY



Designed by:

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
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SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

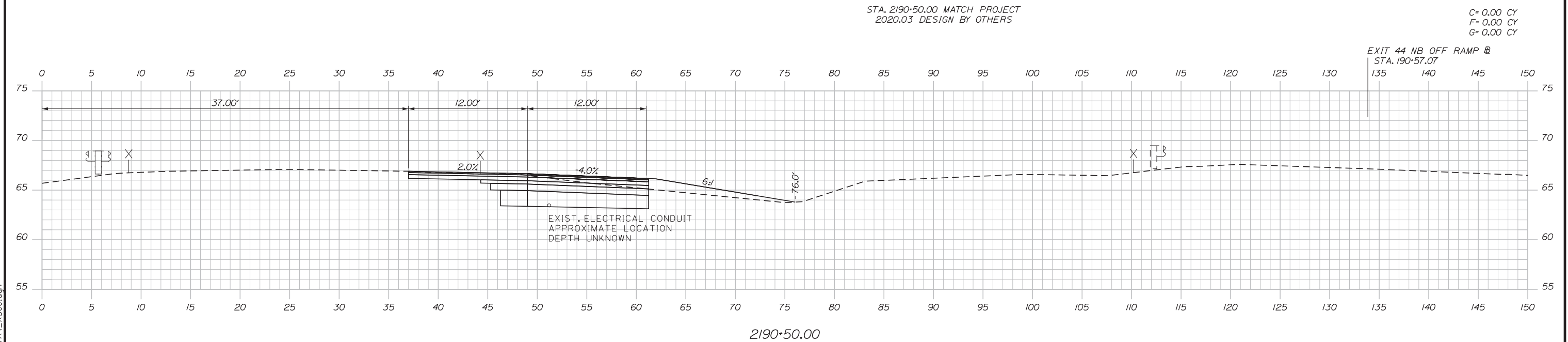
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2189+50.00 TO STA. 2190+00.00

SHEET NUMBER: XS-29
A69 OF A76

CONTRACT: 2020.03

Date: 2/25/2020

Filename: ... \00\HIGHWAY\MSTA_XSec.dgn



Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

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SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

**THE GOLD STAR
MEMORIAL HIGHWAY**

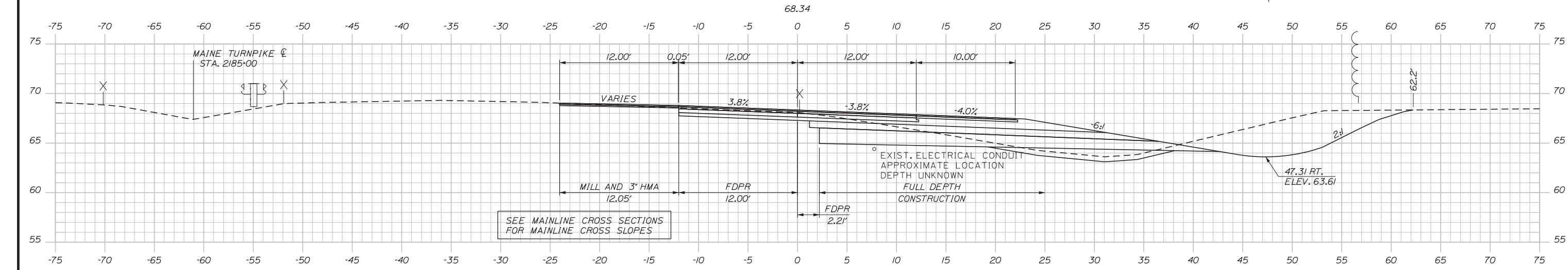
MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 2190+50.00 TO STA. 2191+00.00

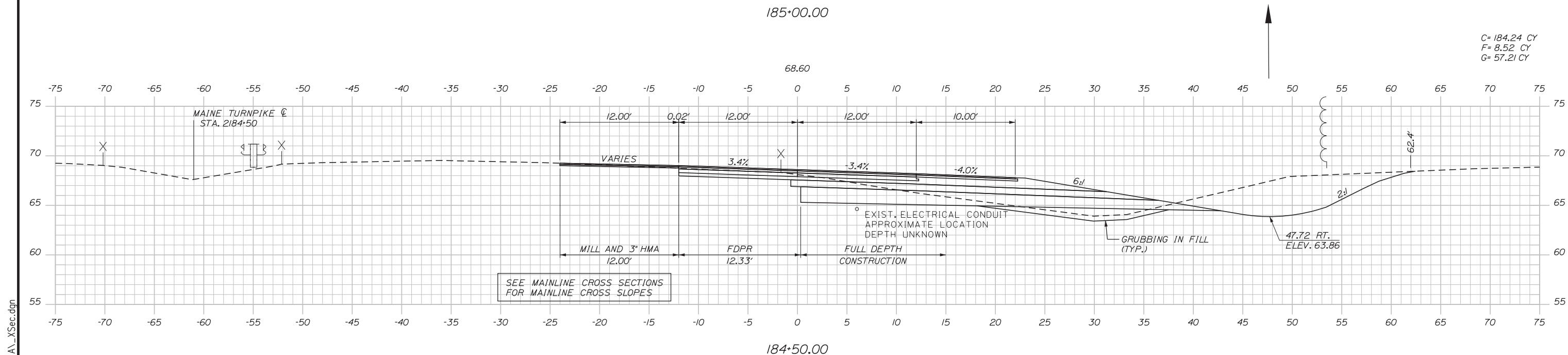
SHEET NUMBER: XS-30
A70 OF A76

CONTRACT: 2020.03

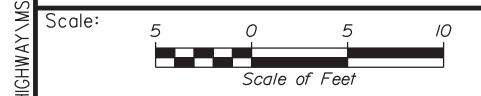
Date: 2/25/2020



C= 173.50 CY
F= 8.52 CY
G= 55.25 CY



C= 184.24 CY
F= 8.52 CY
G= 57.21 CY



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
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FAX (207) 883-3376



EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 184+50.00 TO STA. 185+00.00

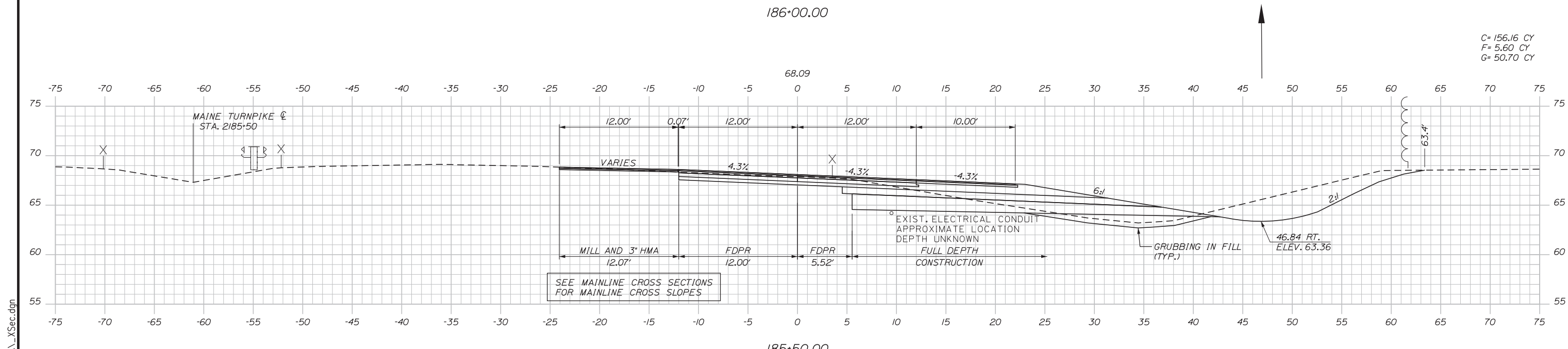
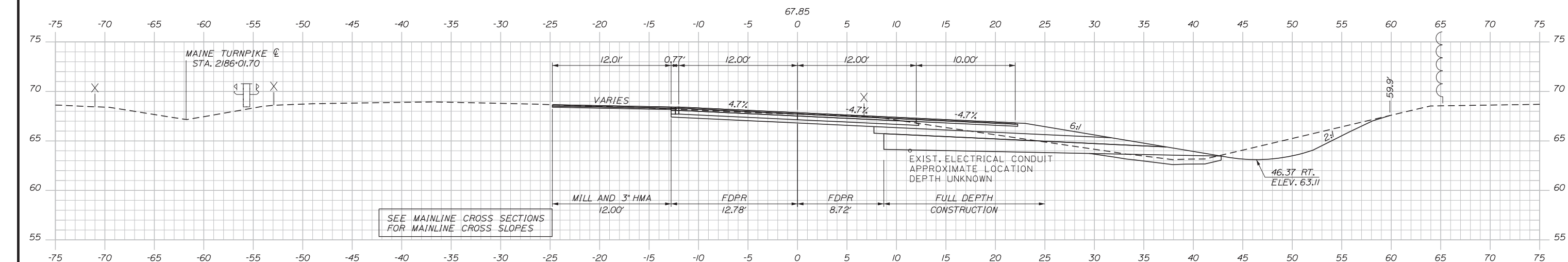
Filename: ...100.HIGHWAY\MSTA_XSec.dgn

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

CONTRACT: 2020.03

SHEET NUMBER: XS-31
A 71 OF A76

Date: 2/25/2020



Designed by:

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
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 TEL (207) 887-3448
 FAX (207) 883-3376

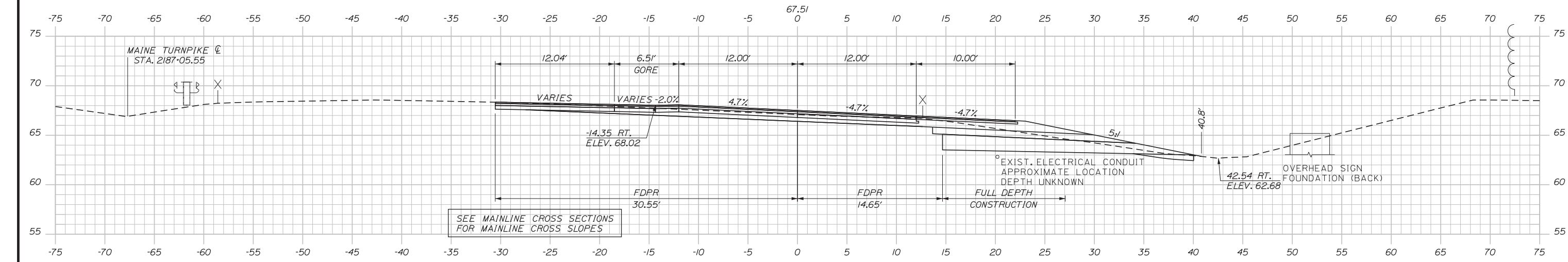


THE GOLD STAR MEMORIAL HIGHWAY

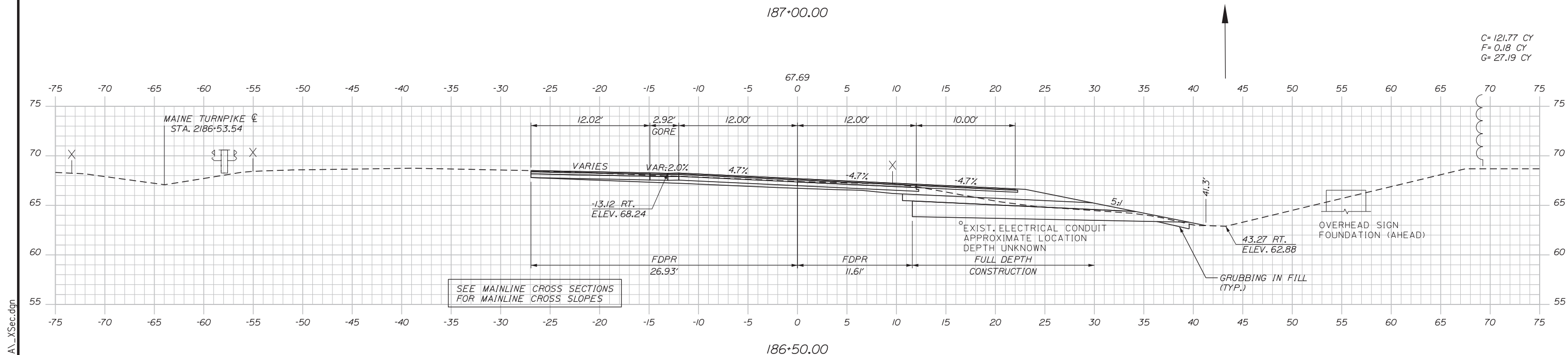
EXIT 44
 NORTHBOUND OFF RAMP IMPROVEMENTS
 STA. 185+50.00 TO STA. 186+00.00

Filename: ...00.HIGHWAY\MSTA...XSec.dgn

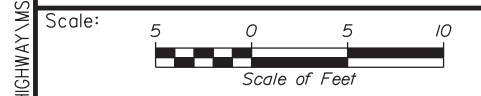
Date: 2/25/2020



C= 127.44 CY
F= 0.55 CY
G= 30.91 CY



C= 121.77 CY
F= 0.18 CY
G= 27.19 CY



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

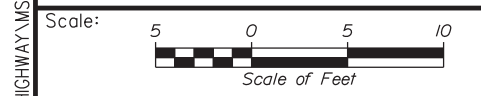
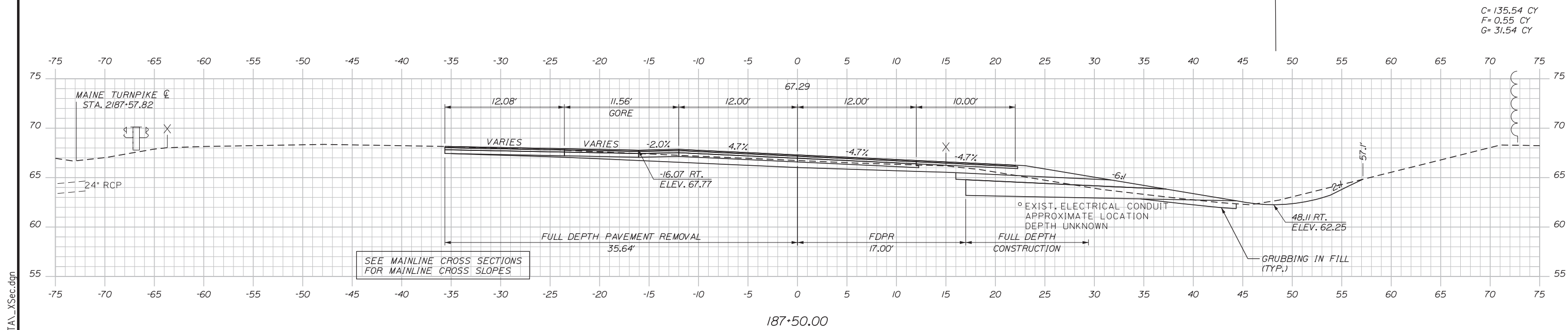
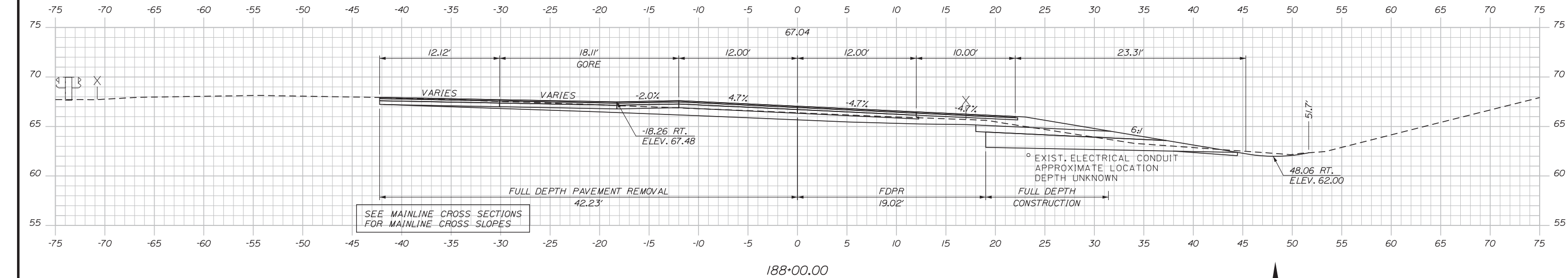
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 186+50.00 TO STA. 187+00.00

Filename: ...100.HIGHWAY\MSTA_XSec.dgn

Date: 2/25/2020



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

By	Date	By	Date
Designed JMB	02\20	Checked LEM	02\20
Drawn EJB	02\20	In Charge of GAE	02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 187+50.00 TO STA. 188+00.00

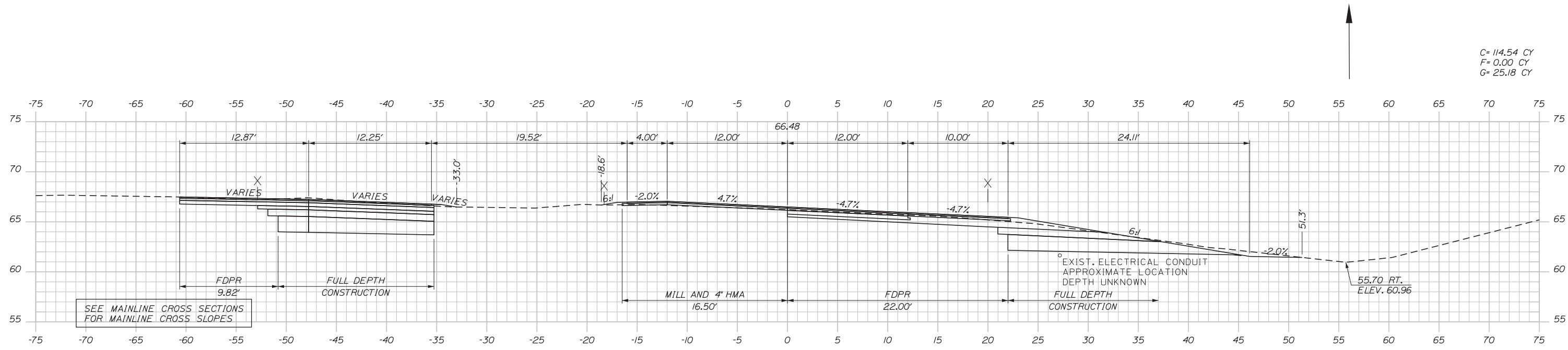
SHEET NUMBER: XS-34
A74 OF A76

CONTRACT: 2020.03

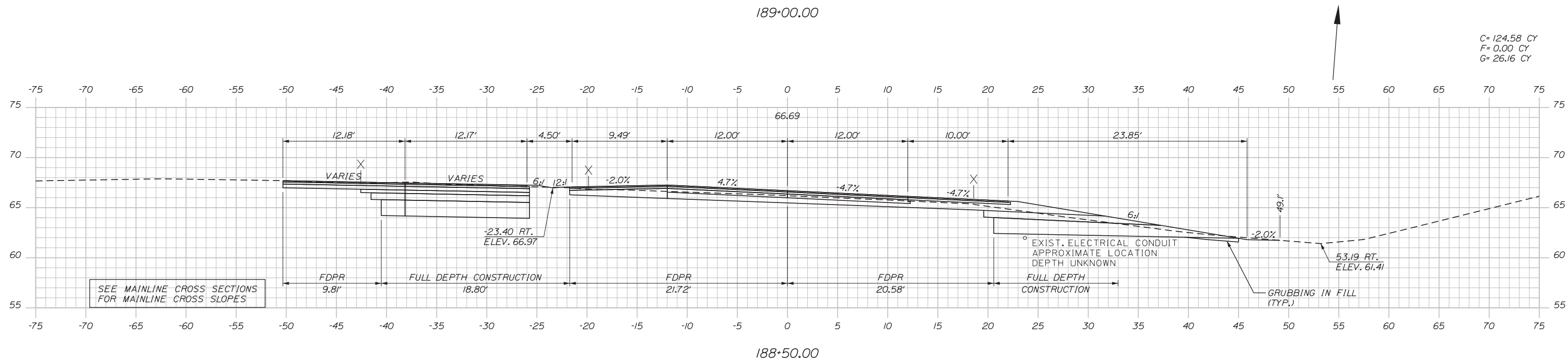
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Date: 2/25/2020

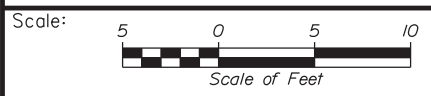
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C= 114.54 CY
F= 0.00 CY
G= 25.18 CY



C= 124.58 CY
F= 0.00 CY
G= 26.16 CY



Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

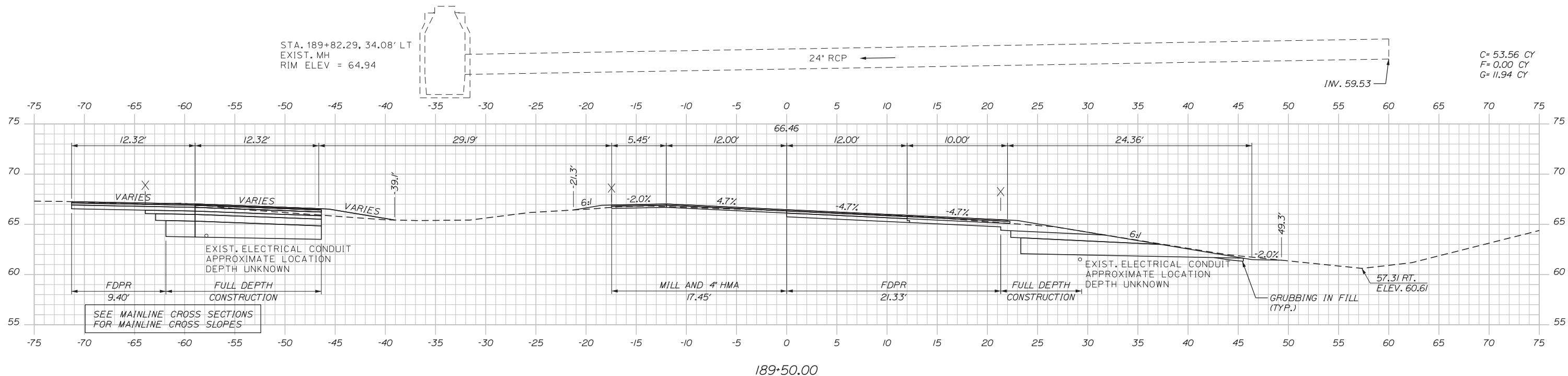
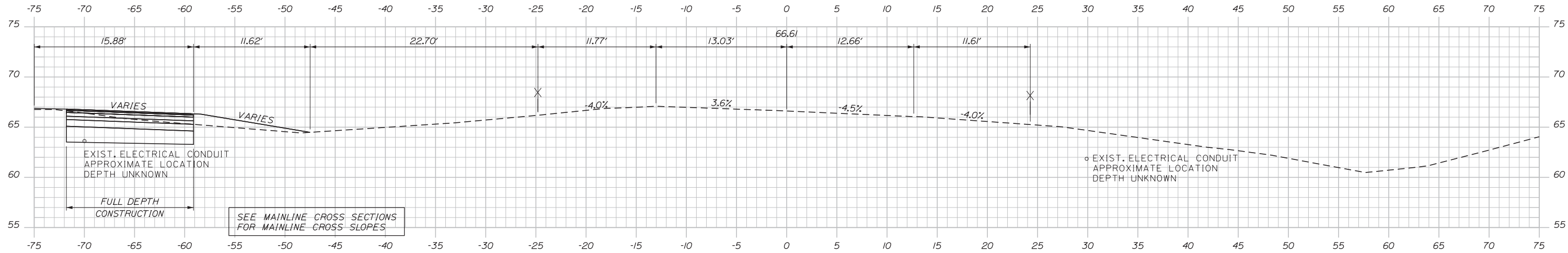
EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 188+50.00 TO STA. 189+00.00

SHEET NUMBER: XS-35
A75 OF A76

CONTRACT: 2020.03

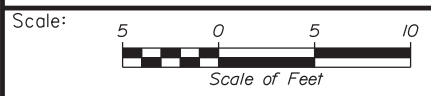
Date: 2/25/2020

C= 0.00 CY
F= 0.00 CY
G= 0.00 CY



C= 53.56 CY
F= 0.00 CY
G= 11.94 CY

Filename: ...:\00.HIGHWAY\MSTA_XSec.dgn



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, PE

No.	Revision	By	Date

	By	Date		By	Date
Designed	JMB	02\20	Checked	LEM	02\20
Drawn	EJB	02\20	In Charge of	GAE	02\20

STANTEC CONSULTING SERVICES INC.
482 PAYNE ROAD
SCARBOROUGH, ME 04074
TEL (207) 887-3448
FAX (207) 883-3376

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RALPH NORWOOD, IV, PE, PTOE

EXIT 44
NORTHBOUND OFF RAMP IMPROVEMENTS
STA. 189+50.00 TO STA. 190+00.00

SHEET NUMBER: XS-36
A76 OF A76

CONTRACT: 2020.03