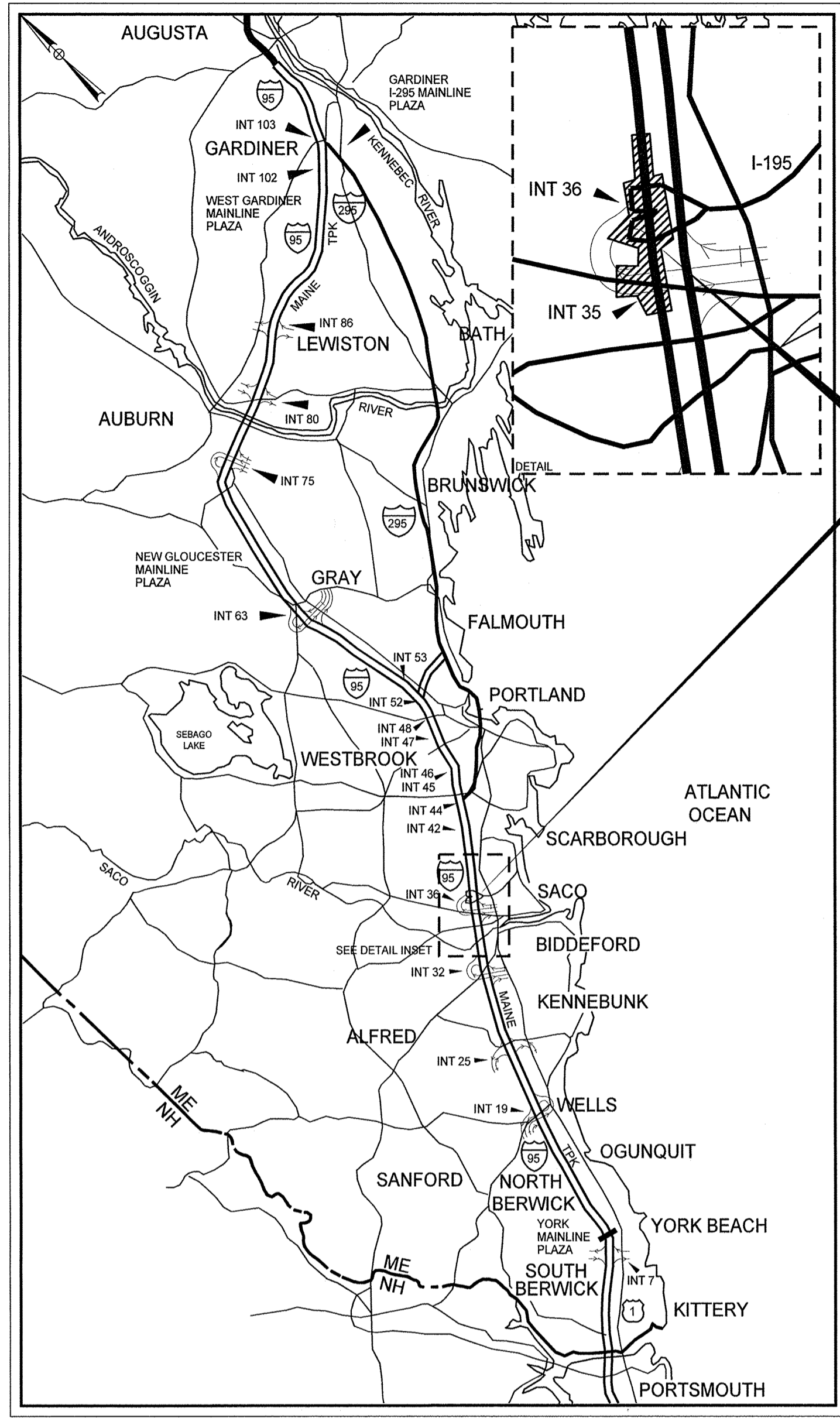


Date:10/3/2022



LOCATION MAP



THE GOLD STAR MEMORIAL HIGHWAY

# MAINE TURNPIKE AUTHORITY

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

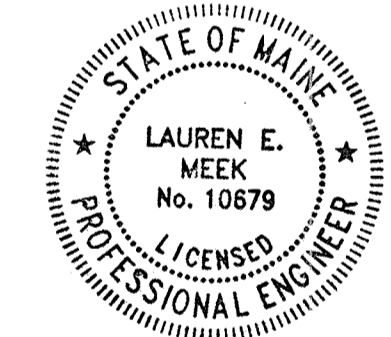
S. PETER MILLS, EXECUTIVE DIRECTOR

## CONTRACT 2022.07 INTERCHANGE IMPROVEMENTS SACO (EXITS 35 & 36) MM 34.7 TO MM 36.6 VOLUME 1 OF 3



SHEET NO.	DESCRIPTION
<b>INDEX OF SHEETS</b>	
<b>VOLUME 1 - HIGHWAY</b>	
1	TITLE SHEET
2-11	ESTIMATE QUANTITIES & EARTHWORK SUMMARY
12-21	TYPICAL SECTIONS
22-98	MAINTENANCE OF TRAFFIC PLANS
99-108	DETAILS
109-133	GENERAL PLANS
134-156	PROFILES
157-180	GEOMETRIC PLANS
181-182	INTERSECTION GRADING PLANS
183-192	PAVEMENT PLANS
193-245	SIGNING & STRIPING PLANS
246-266	POWER AND COMMUNICATIONS PLANS
267-278	TRAFFIC SIGNAL & ITS PLANS
279-289	SITE & UTILITY PLANS
290	LANDSCAPING PLAN
291-293	PRELOAD PLANS
294-297	UNDERDRAINED SOIL FILTER PLANS
298-301	LIMIT OF DISTURBANCE PLANS
	APPENDIX A: MAINE WATER PLANS & DETAILS
<b>VOLUME 2 - HIGHWAY</b>	
302-586	CROSS SECTIONS
<b>VOLUME 3 - STRUCTURAL &amp; BUILDING</b>	
<b>BRIDGE STRUCTURAL</b>	
587-596	ROUTE 112 BRIDGE PLANS
<b>WALL STRUCTURAL</b>	
597-599	SOIL NAIL WALL PLANS & DETAILS
600-608	GOOSEFARE BROOK WALL PLANS & DETAILS
<b>PLAZA</b>	
609-644	PLAZA STRUCTURAL
645-646	PLAZA MECHANICAL, ELECTRICAL & PLUMBING PLANS
647-663	TOLLING SYSTEM PLANS
<b>BUILDING</b>	
664-692	BUILDING ARCHITECTURAL PLANS
693-702	BUILDING STRUCTURAL PLANS
703-711	BUILDING MECHANICAL PLANS
712-719	BUILDING PLUMBING PLANS
720-732	BUILDING ELECTRICAL PLANS
733-735	UTILITY BUILDING PLANS

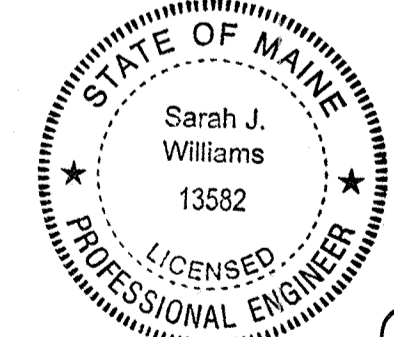
CONTRACT 2022.07



*Lauren E. MEEK*  
LAUREN MEEK, P.E. - SENIOR ASSOCIATE  
STANTEC  
10/2/2022  
DATE



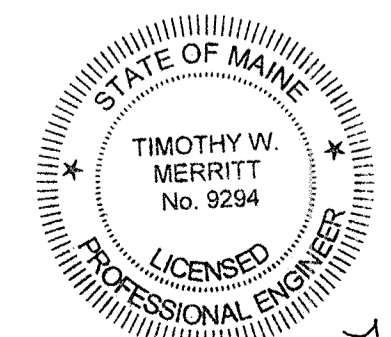
*Trey Dykstra*  
TREY A. DYKSTRA, P.E.  
STANTEC  
10/4/2022  
DATE



*Sarah J. Williams*  
SARAH J. WILLIAMS, P.E. -  
STANTEC  
10/4/2022  
DATE



*Christopher M. Piik*  
CHRISTOPHER M. PIK, P.E.  
STANTEC  
10/4/2022  
DATE



*Timothy W. Merritt*  
TIMOTHY W. MERRITT, P.E.  
STANTEC  
10/3/2022  
DATE



*Dan Hallahan*  
DANIEL P. HALLAHAN, P.E.  
STANTEC  
10-6-2022  
DATE

APPROVED: MAINE TURNPIKE AUTHORITY

*William Yates III*  
WILLIAM YATES III - DIRECTOR OF INFORMATION SERVICES AND COMMUNICATIONS  
MTA  
10/3/22  
DATE

*Peter S. Merfeld*  
PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER  
MTA  
10/3/22  
DATE

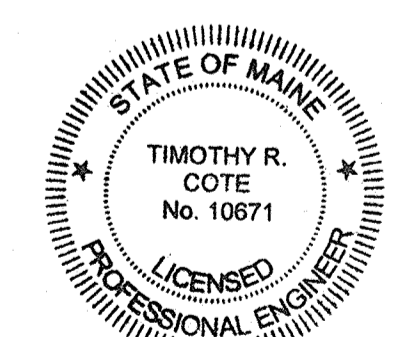
*Stephen R. Tartre*  
STEPHEN R. TARTRE, P.E. - CHIEF ENGINEER & DIRECTOR OF ENGINEERING  
MTA  
10/3/22  
DATE



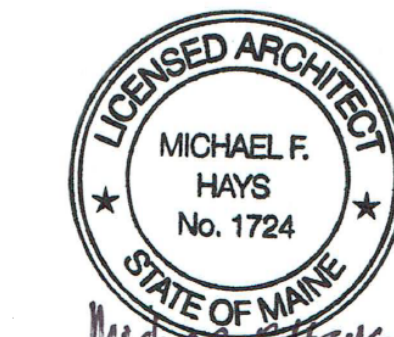
SHEETS 647-663  
HIGH MAST LIGHT #25 FOUNDATION DESIGN

GRANT HAYS ASSOCIATES

SHEETS 664-692



*Timothy R. Cote*  
TIMOTHY R. COTE, P.E.  
HNTB  
10/3/2022  
DATE



*Michael F. Hays*  
MICHAEL F. HAYS, RA - PRINCIPAL  
GRANT HAYS ASSOCIATES  
10/4/2022  
DATE

Filename: ... \00\HIGHWAY\MSTA\...Title.dgn

Date:10/17/2022

Filename: ...000.HIGHWAY\MSTA...Estimate.dgn


ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
201.11	CLEARING	6	AC
201.23	REMOVING SINGLE TREE TOP ONLY	26	EA
201.24	REMOVING STUMP	15	EA
202.08	REMOVING BUILDING NO.1	1	LS
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	10	CY
202.15	REMOVING EXISTING MANHOLE OR CATCH BASIN	20	EA
202.202	REMOVING PAVEMENT SURFACE	18,850	SY
202.205	RUMBLE STRIPS	18,100	EA
202.206	REMOVING RUMBLE STRIPS	18,100	LF
203.20	COMMON EXCAVATION	120,600	CY
203.21	ROCK EXCAVATION	1800	CY
203.2312	HEALTH AND SAFETY PLAN (HASP)	1	LS
203.2319	MEDIA MANAGEMENT PLAN (EMMP)	1	LS
203.2333	DISPOSAL/TREATMENT OF SPECIAL EXCAVATION	540	TON
203.2334	DISPOSAL/TREATMENT OF GROUNDWATER	105,000	GAL
203.25	GRANULAR BORROW	21,150	CY
203.33	SPECIAL FILL - STREAMBED MATERIAL	20	CY
203.52	LOW PERMEABILITY FILL	300	CY
206.082	STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES, PLAN QUANTITY	610	CY
209.29	PREFABRICATED VERTICAL DRAINS	85,800	LF
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	40,050	CY
304.14	AGGREGATE BASE COURSE - TYPE A	23,200	CY
403.207	HOT MIX ASPHALT, 19.0 mm NOMINAL MAXIMUM SIZE	7900	TON
403.2072	19.0 mm ASPHALT RICH BASE HMA	7750	TON
403.208	HOT MIX ASPHALT, 12.5 mm	1710	TON
403.2081	HOT MIX ASPHALT, 12.5 mm (POLYMER MODIFIED) - RAP	7300	TON
403.209	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE (SIDEWALKS, DRIVES, ISLANDS & INCIDENTALS)	382	TON
403.211	HOT MIX ASPHALT, 9.5 mm NOMINAL MAXIMUM SIZE (SHIMMING)	200	TON
403.213	HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)	9010	TON
409.15	BITUMINOUS TACK COAT RS-1 OR RS1H - APPLIED	8450	GAL
409.152	BITUMINOUS TACK COAT NTSS - IHM TRACKLESS - APPLIED	6240	GAL
419.30	SAWING BITUMINOUS PAVEMENT	16,000	LF
424.323	ASHPALT RUBBER MASTIC CRACK SEALER - APPLIED	1890	LB
470.08	BERM DROPOFF CORRECTION - GRINDINGS	440	TON
501.231	DYNAMIC LOAD TEST	4	EA
501.54	STEEL H-BEAM PILES 117 LB/FT, DELIVERED	2500	LF
501.541	STEEL H-BEAM PILES 117 LB/FT, IN PLACE	2500	LF
501.90	PILE TIPS	44	EA
501.91	PILE SPLICES	38	EA
501.92	PILE DRIVING EQUIPMENT MOBILIZATION	1	LS
502.21	STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	10	CY
502.262	STRUCTURAL CONCRETE, PAVEMENT SLABS (659 CY)	1	LS
502.263	STRUCTURAL CONCRETE, PLAZA ISLANDS, BUMPERS, AND CURTAIN WALLS (124 CY)	1	LS
502.264	STRUCTURAL CONCRETE, PILE CAPS (148 CY)	1	LS
502.265	STRUCTURAL CONCRETE, UTILITY PITS (79 CY)	1	LS
502.266	STRUCTURAL CONCRETE, PEDESTALS AND FOOTINGS (18 CY)	1	LS
502.701	BRIDGE DRAIN DOWNSPOUT EXTENSION	4	EA
502.7011	WEEP DRAIN EXTENSIONS	1	LS
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED	132,000	LB
503.15	EPOXY-COATED REINFORCING STEEL, PLACING	132,000	LB
503.18	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS, FABRICATED AND DELIVERED	85,300	LF
503.19	GLASS FIBER REINFORCED POLYMER (GFRP) REINFORCING BARS, PLACING	85,300	LF
503.90	SYNTHETIC FIBER REINFORCEMENT	2000	LB
504.50	TOLL PLAZA CANOPY - NORTHBOUND	1	LS
504.51	TOLL PLAZA CANOPY - SOUTHBOUND	1	LS
504.61	TOLL GANTRY - NORTHBOUND	1	LS
504.62	TOLL DUAL PURPOSE MAST ARM - SOUTHBOUND	1	LS
506.142	FIELD PAINTING OF EXISTING STRUCTURAL STEEL	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE	1	LS
511.071	COFFERDAM - GOOSEFARE BROOK	1	LS
513.09	SLOPE PROTECTION - PORTLAND CEMENT CONCRETE	36	SY
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
515.201	PIGMENTED PROTECTIVE COATING FOR CONCRETE SURFACES	610	SY
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	1100	SY
515.203	BROADCAST SEALANT FOR CONCRETE SURFACES	910	SY

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
515.23	EPOXY OVERLAY	86	SY
518.10	ABUTMENT REPAIRS	20	SF
518.39	GRANITE CURB JOINT MORTAR AND BEDDING MORTAR REPAIR	400	LF
518.40	EPOXY INJECTION CRACK REPAIR	5	LF
518.43	PARAPET JOINT REPAIR	100	LF
518.50	REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 8 INCHES	5	SF
518.60	REPAIR OF VERTICAL SURFACES < 8 INCHES	5	SF
518.80	PARTIAL DEPTH CONCRETE DECK REPAIRS	100	SF
518.864	ELASTOMERIC CONCRETE HEADER REPAIR	24	CF
520.231	EXPANSION DEVICE - ASPHALTIC PLUG JOINT FOR CRACK CONTROL	180	LF
526.301	TEMPORARY CONCRETE BARRIER, TYPE I	5000	LF
526.306	TEMPORARY CONCRETE BARRIER, TYPE I - SUPPLIED BY AUTHORITY	1	LS
526.307	CONCRETE BARRIER TYPE I - STORMWATER FILTER	90	LF
526.351	CONCRETE BARRIER - TYPE A	1	LS
526.368	CONCRETE BARRIER - TYPE C GUARDRAIL TRANSITION BARRIER	2	EA
527.307	CENTER BARRIER CRASH ATTENUATOR (SMART CUSHION)	2	EA
527.341	WORK ZONE CRASH CUSHION - TL-3	7	UNIT
527.342	WORK ZONE CRASH CUSHION - TL-2	1	UNIT
602.40	PUMPED GROUT FILL	12	CY
603.151	12 INCH CORRUGATED METAL PIPE	6	LF
603.155	12 INCH REINFORCED CONCRETE PIPE - CLASS III	230	LF
603.1553	12 INCH REINFORCED CONCRETE PIPE - CLASS V	55	LF
603.159	12 INCH CULVERT PIPE OPTION III	740	LF
603.165	15 INCH REINFORCED CONCRETE PIPE - CLASS III	40	LF
603.1653	15 INCH REINFORCED CONCRETE PIPE - CLASS V	3	LF
603.169	15 INCH CULVERT PIPE OPTION III	77	LF
603.175	18 INCH REINFORCED CONCRETE PIPE - CLASS III	280	LF
603.1753	18 INCH REINFORCED CONCRETE PIPE - CLASS V	190	LF
603.179	18 INCH CULVERT PIPE OPTION III	20	LF
603.195	24 INCH REINFORCED CONCRETE PIPE - CLASS III	140	LF
603.2053	30 INCH REINFORCED CONCRETE PIPE - CLASS V	52	LF
603.215	36 INCH REINFORCED CONCRETE PIPE - CLASS III	170	LF
603.2153	36 INCH REINFORCED CONCRETE PIPE - CLASS V	150	LF
603.235	48 INCH REINFORCED CONCRETE PIPE - CLASS III	34	LF
603.245	54 INCH REINFORCED CONCRETE PIPE - CLASS III	44	LF
603.28	CONCRETE COLLAR	12	EA
603.285	84 INCH REINFORCED CONCRETE PIPE - CLASS III	26	LF
604.073	CATCH BASIN TYPE A1	3	EA
604.09	CATCH BASIN TYPE B1	5	EA
604.092	CATCH BASIN TYPE B1-C	22	EA
604.096	60" CATCH BASIN TYPE B1-C	2	EA
604.15	MANHOLE	2	EA
604.16	ALTERING CATCH BASIN TO MANHOLE	1	EA
604.18	ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	7	EA
604.182	CLEANING EXISTING CATCH BASIN AND MANHOLE	30	EA
604.246	CATCH BASIN TYPE F5	12	EA
604.248	CATCH BASIN TYPE F6	22	EA
604.249	CATCH BASIN TYPE F6-C	2	EA
604.25	CATCH BASIN TYPE A5	1	EA
604.26	CATCH BASIN TYPE B5	28	EA
604.262	CATCH BASIN TYPE B5-C	4	EA
604.263	60" CATCH BASIN TYPE B5	2	EA
604.40	SECURE CATCH BASIN GRATE	11	EA
605.016	6" PVC UNDERDRAIN	2600	LF
605.018	8" PVC UNDERDRAIN	820	LF
605.09	6 INCH UNDERDRAIN TYPE B	2180	LF
605.11	12 INCH UNDERDRAIN TYPE C	3739	LF
605.12	15 INCH UNDERDRAIN TYPE C	1870	LF
605.13	18 INCH UNDERDRAIN TYPE C	1250	LF
605.15	24 INCH UNDERDRAIN TYPE C	406	LF
606.1301	3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS, 8" OFFSET BLOCKS, SINGLE FACED)	6800	LF
606.1303	3" W-BEAM GUARDRAIL - MID-WAY SPLICE - 15' RADIUS & LESS	38	LF
606.1304	3" W-BEAM GUARDRAIL - MID-WAY SPLICE - OVER 15' RADIUS	150	LF
606.1307	3" W-BEAM GUARDRAIL - MID-WAY SPLICE FLARED TERMINAL	17	EA
606.132	3" W-BEAM GUARDRAIL - MID-WAY SPLICE (7' STEEL POSTS, 8" OFFSET BLOCKS, DOUBLE FACED)	3700	LF
606.1351	3" W-BEAM GUARDRAIL - MID-WAY SPLICE TERMINAL END - ANCHORED END	15	EA
606.1352	3" W-BEAM GUARDRAIL - MID-WAY SPLICE TERMINAL END - ANCHORED END, DOUBLE FACED	1	EA
606.1723	BRIDGE TRANSITION - TYPE III	6	EA
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	6	EA
606.279	TERMINAL END - ANCHORED END, THRIE BEAM	2	EA
606.352	REFLECTORIZED BEAM GUARDRAIL DELINEATOR	190	EA
606.356	UNDERDRAIN DELINEATOR POST	105	EA

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 ESTIMATED QUANTITIES 1

SHEET NUMBER: QN-01  
 CONTRACT:2022.07  
 2 OF 735

Date:10/10/2022

Filename: ...000.HIGHWAY\MSTA...Estimate.dgn


ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	50	EA
606.356	DELINEATOR POST - REMOVE AND RESET	293	EA
606.36	GUARDRAIL - REMOVE AND RESET	130	LF
606.47	SINGLE WOOD POST	6	EA
606.51	MULTIPLE MAILBOX SUPPORT	1	EA
606.64	GUARDRAIL THRIE BEAM - DOUBLE RAIL	430	LF
606.65	GUARDRAIL THRIE BEAM - SINGLE RAIL	88	LF
606.701	ASYMMETRICAL THRIE BEAM TRANSITION	3	EA
606.83	GUARDRAIL - REMOVE AND RESET EXISITNG CRASH END	1	EA
607.09	WOVEN WIRE FENCE - METAL POSTS	2100	LF
607.32	BRACING ASSEMBLY TYPE I - METAL POSTS	2	EA
607.33	BRACING ASSEMBLY TYPE II - METAL POSTS	25	EA
607.45	STOCKADE FENCE - 6' TALL	140	LF
608.08	REINFORCED CONCRETE SIDEWALK	210	SY
608.26	CURB RAMP DETECTABLE WARNING FIELD	240	SF
609.11	VERTICAL CURB TYPE I	390	LF
609.12	VERTICAL CURB TYPE I - CIRCULAR	130	LF
609.13	VERTICAL BRIDGE CURB TYPE I	520	LF
609.14	VERTICAL BRIDGE CURB TYPE I - CIRCULAR	180	LF
609.15	SLOPED CURB TYPE I	16	LF
609.21	CONCRETE SLIPFORM CURB	2690	LF
609.219	CONCRETE SLIPFORM CURB - TERMINAL END	256	LF
609.221	TERMINAL CURB TYPE I	95	LF
609.222	TERMINAL CURB TYPE I - CIRCULAR	12	LF
609.34	CURB TYPE 5	1450	LF
609.35	CURB TYPE 5 - CIRCULAR	53	LF
610.08	PLAIN RIPRAP	816	CY
610.18	STONE DITCH PROTECTION	72	CY
610.181	TEMPORARY STONE CHECK DAM	510	CY
610.213	VOID-FILLED RIPRAP - TYPE A OR B	120	CY
613.319	EROSION CONTROL BLANKET	37,000	SY
615.07	LOAM	5720	CY
618.13	SEEDING METHOD NUMBER 1	77	UNIT
618.14	SEEDING METHOD NUMBER 2	779	UNIT
618.143	SPECIAL SEEDING	3	UNIT
618.15	TEMPORARY SEEDING	9	LB
619.1201	MULCH - PLAN QUANTITY	859	UNIT
619.1202	TEMPORARY MULCH	1	LS
619.1401	EROSION CONTROL MIX	100	CY
620.56	DRAINAGE GEOTEXTILE	10,900	SY
620.561	IMPERVIOUS LINER	5200	SY
620.58	EROSION CONTROL GEOTEXTILE	3645	SY
621.046	EVERGREEN TREE (8 - 10 FEET) GROUP A	13	EA
621.264	MULTI-STEM DECIDUOUS TREE GROUP A	2	EA
621.273	LARGE DECIDUOUS TREE (2" - 2.5" CALIPER) GROUP A	15	EA
621.389	EVERGREENS (15" - 18") GROUP A	6	EA
621.401	EVERGREENS (2 - 2.5 FEET) GROUP A	4	EA
621.513	HYBRID RHODODENDRON (2.5 - 3 FEET)	5	EA
621.552	DECIDUOUS SHRUBS (3 - 4 FEET) GROUP A	60	EA
625.106	WATER SERVICE SUPPLY LINE (<3 IN)	750	LF
625.107	WATER METER PIT	2	EA
626.121	QUAZITE JUNCTION BOX (36X24)	15	EA
626.122	QUAZITE JUNCTION BOX (18X11)	143	EA
626.123	QUAZITE JUNCTION BOX (48X36)	4	EA
626.13	4' X 6' SPLICE BOX WITH ACCESS DOOR	5	EA
626.22	NON-METALLIC CONDUIT	37,700	LF
626.223	HORIZONTAL DIRECTIONAL DRILLED CONDUIT	1900	LF
626.31	18 INCH DIAMETER FOUNDATION	15	EA
626.32	24 INCH DIAMETER FOUNDATION	127	EA
626.33	30 INCH DIAMETER, LESS THAN 8 FEET OR LESS FOUNDATION	4	EA
626.332	30-INCH DIAMETER, GREATER THAN 8- FEET LONG, ALL 36 INCH AND 42 INCH DIAMETER FOUNDATIONS	113	CY
626.333	48-INCH DIAMETER, 54-INCH DIAMETER, 60-INCH DIAMETER FOUNDATIONS	25	CY
626.35	CONTROLLER CABINET FOUNDATION	4	EA
626.36	REMOVE OR MODIFY CONCRETE FOUNDATION	39	EA
626.38	GROUND MOUNTED CABINET FOUNDATION	1	EA
627.18	12" SOLID WHITE PAVEMENT MARKING LINE	7500	LF
627.712	WHITE OR YELLOW PAVEMENT MARKING LINE	120,650	LF
627.73	TEMPORARY 6 INCH PAVEMENT MARKING TAPE	67,200	LF

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
627.731	TEMPORARY 6 INCH BLACK PAVEMENT MARKING TAPE	1400	LF
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	460	LF
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	3100	SF
627.77	REMOVING EXISTING PAVEMENT MARKING	20,400	SF
627.78	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	197,000	LF
627.812	TEMPORARY RAISED PAVEMENT MARKERS	7050	EA
627.941	PAVEMENT MARKING TAPE DOTTED WHITE LANE LINE, 6-INCH WIDTH	670	LF
627.942	PAVEMENT MARKING TAPE DOTTED WHITE LANE LINE, 12-INCH WIDTH	860	LF
627.944	PAVEMENT MARKING - RECESSED TAPE - WORDS, ARROWS, STOP BARS	360	SF
629.05	HAND LABOR, STRAIGHT TIME	200	HR
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	70	HR
631.11	AIR TOOL (INCLUDING OPERATOR)	70	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	200	HR
631.13	BULLDOZER (INCLUDING OPERATOR)	200	HR
631.14	GRADER (INCLUDING OPERATOR)	100	HR
631.171	TRUCK - SMALL (INCLUDING OPERATOR)	100	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	100	HR
631.18	CHAIN SAW RENTAL (INCLUDING OPERATOR)	30	HR
631.21	ROAD BROOM (INCLUDING OPERATORS AND HAULER)	10	HR
631.22	FRONT END LOADER (INCLUDING OPERATOR)	100	HR
631.32	CULVERT CLEANER (INCLUDING OPERATOR)	50	HR
631.36	FOREMAN	100	HR
631.51	BUCKET TRUCK	60	HR
631.52	SCISSOR LIFT	60	HR
631.53	ELECTRICIAN	100	HR
631.54	ELECTRICIAN'S APPRENTICE	100	HR
631.55	PLUMBER	60	HR
633.031	NATURAL GAS SERVICE - NORTHBOUND	1	LS
633.0311	NATURAL GAS SERVICE - HOTEL	1	LS
633.032	PROPANE SERVICE - SOUTHBOUND	1	LS
633.21	PROPANE TANK SUPPORTS (12' X 4')	2	EA
633.31	PROPANE TANK PAD	27	SY
634.052	REMOVE HIGH MAST LIGHT STANDARD	3	EA
634.1751	REPLACEMENT LED FIXTURE - SUPPLIED BY THE AUTHORITY	12	EA
634.2078	HIGH MAST LIGHT STANDARD - SUPPLIED BY THE AUTHORITY	1	EA
634.208	REMOVE AND RESET LIGHT STANDARD	8	EA
634.2312	CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE - SUPPLIED BY THE AUTHORITY	80	EA
636.400	SOIL NAIL WALL DESIGN	1	LS
636.401	SOIL NAIL WALL CONSTRUCTION MONITORING - EXISTING BRIDGE	1	LS
636.411	SOIL NAIL WALL	3750	SF
639.26	INSTRUMENTATION (GEOTECHNICAL)	1	LS
643.712	LANE USE SIGNAL	6	EA
643.713	PREEMPTIVE SYSTEM AT EXIT 35 NB INTERSECTION	1	LS
643.714	PREEMPTIVE SYSTEM AT EXIT 35 SB INTERSECTION	1	LS
643.80	TRAFFIC SIGNAL AT ROUTE 112 AND EXIT 35 SB	1	LS
643.81	TRAFFIC SIGNAL AT LUND RD AND EXIT 35 NB	1	LS
643.82	VEHICLE DETECTION SYSTEM AT LUND RD AND EXIT 35 NB	1	LS
643.83	VEHICLE DETECTION SYSTEM AT ROUTE 112 AND EXIT 35 SB	1	LS
643.92	PEDESTAL POLE	4	EA
643.941	DUAL PURPOSE POLE W/15' MAST ARM	2	EA
643.942	DUAL PURPOSE POLE W/25' MAST ARM	1	EA
643.943	DUAL PURPOSE POLE W/30' MAST ARM	1	EA
643.944	DUAL PURPOSE POLE W/35' MAST ARM	2	EA
643.945	DUAL PURPOSE POLE W/40' MAST ARM	1	EA
643.946	DUAL PURPOSE POLE W/45' MAST ARM	1	EA
645.105	REMOVE AND STACK SIGN	1	EA
645.109	REMOVE AND RESET SIGN	23	EA
645.1092	CANOPY MOUNTED DYNAMIC MESSAGE SIGN	2	EA
645.1099	REMOVE AND DISPOSE SIGN	30	EA
645.121	OVERHEAD GUIDE SIGN NB 1 (STA. 1670-75)	1	LS
645.14	CANOPY MOUNTED SIGN	4	EA
645.151	CANTILEVER GUIDE SIGN NB 1 (STA. 1718-50)	1	LS
645.152	CANTILEVER GUIDE SIGN NB 2 (STA. 1731-30)	1	LS
645.153	CANTILEVER GUIDE SIGN SB 1 (STA 2728-75)	1	LS
645.154	CANTILEVER GUIDE SIGN SB 2 (STA 2740-50)	1	LS

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 ESTIMATED QUANTITIES 2

SHEET NUMBER: QN-02  
 CONTRACT:2022.07  
 3 OF 735

Date:10/10/2022

Filename: ... \00\HIGHWAY\MSTA...\_Estimate.dgn


ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
645.155	CANTILEVER GUIDE SIGN SB 3 (STA. 2763+00)	1	LS
645.156	CANTILEVER GUIDE SIGN SB 4 (STA. 1789+00)	1	LS
645.161	BREAKAWAY DEVICE SINGLE POLE	35	EA
645.162	BREAKAWAY DEVICE MULTI POLE	35	EA
645.251	ROADSIDE GUIDE SIGNS, TYPE I	3400	SF
645.2511	SHEET ALUMINUM OVERLAY, TYPE I	3	SF
645.271	REGULATORY, WARNING, CONFIRMATION AND ROUTE ASSEMBLY SIGN, TYPE I	1300	SF
645.289	STEEL H-BEAM POLES	28,600	LB
645.501	REMOVE AND RESET MAINLINE SIGN NO.1	1	LS
645.502	REMOVE AND RESET MAINLINE SIGN NO. 2	1	LS
645.503	REMOVE AND RESET MAINLINE SIGN NO. 3	1	LS
645.504	REMOVE AND RESET MAINLINE SIGN NO. 4	1	LS
645.505	REMOVE AND RESET MAINLINE SIGN NO. 5	1	LS
645.506	REMOVE AND RESET MAINLINE SIGN NO. 6	1	LS
645.507	REMOVE AND RESET MAINLINE SIGN NO. 7	1	LS
645.508	REMOVE AND RESET MAINLINE SIGN NO. 8	1	LS
645.509	REMOVE AND RESET MAINLINE SIGN NO. 9	1	LS
645.510	REMOVE AND RESET MAINLINE SIGN NO. 10	1	LS
645.511	REMOVE AND RESET MAINLINE SIGN NO. 11	1	LS
648.00	INSTALL FLAGPOLE	2	EA
650.1011	VARIABLE MESSAGE SIGN (VMS) SYSTEM: ROUTE 112 EB	1	LS
650.1012	VARIABLE MESSAGE SIGN (VMS) SYSTEM: ROUTE 112 WB	1	LS
650.2011	VMS GROUND MOUNTED CONTROL CABINET: ROUTE 112 EB	1	EA
650.2012	VMS GROUND MOUNTED CONTROL CABINET: ROUTE 112 WB	1	EA
650.9011	VMS SOLAR POWER SYSTEM: ROUTE 112 EB	1	LS
650.9012	VMS SOLAR POWER SYSTEM: ROUTE 112 WB	1	LS
652.30	FLASHING ARROW	4	EA
652.312	TYPE III BARRICADES	18	EA
652.313	TEMPORARY PEDESTRIAN BARRICADE, ADA COMPLIANT	2150	LF
652.33	DRUM	550	EA
652.34	CONE	100	EA
652.35	CONSTRUCTION SIGNS	4400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGERS	3250	HR
652.381	TRAFFIC OFFICERS	50	HR
652.41	PORTABLE-CHANGEABLE MESSAGE SIGN	10	EA
652.45	TRUCK MOUNTED ATTENUATOR	200	CD
652.452	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	3	EA
652.46	TEMPORARY PORTABLE RUMBLE STRIPS	50	UN
652.47	SEQUENTIAL FLASHING WARNING LIGHTS	30	EA
655.012	INSTALLATION OF CASH LANE CONTROLLER CABINET	8	EA
655.02	DVAS MOUNT INSTALLATION	8	EA
655.041	INSTALLATION OF SENSOR LOOPS - SOUTHBOUND	1	LS
655.042	INSTALLATION OF SENSOR LOOPS - NORTHBOUND	1	LS
655.05	INSTALLATION OF AVI ANTENNAS	10	EA
655.07	TRAFFIC CONTROL PEDESTAL PREPARATION WORK	6	EA
655.1000	*2/0 AWG WIRE	4820	LF
655.101	*6 AWG WIRE	2216	LF
655.102	*2 AWG WIRE	12,400	LF
655.11	*10 AWG WIRE	1205	LF
655.12	*12 AWG WIRE	24,900	LF
655.13	*14 AWG WIRE	100	LF
655.141	4PR/24 (CATEGORY 5E) CABLE	6830	LF
655.151	LMR 600 CABLE	870	LF
655.16	6 STRAND MULTI-MODAL FIBER OPTIC CABLE	4700	LF
655.17	IVIS HOMERUN LOOP CABLE (IMSA 50-2 *14)	100	LF
655.200	1-1/2" SCHEDULE 40 PVC CONDUIT	60	LF
655.201	3" SCHEDULE 40 PVC CONDUIT	100	LF
655.2021	1" SCHEDULE 80 PVC CONDUIT	130	LF
655.203	1-1/2" SCHEDULE 80 PVC CONDUIT	370	LF
655.2031	2" SCHEDULE 80 PVC CONDUIT	180	LF
655.204	3" SCHEDULE 80 PVC CONDUIT	14,420	LF
655.206	1" GALVANIZED RIGID METAL CONDUIT	300	LF
655.207	1-1/2" GALVANIZED RIGID METAL CONDUIT	100	LF
655.2071	2" GALVANIZED RIGID METAL CONDUIT	310	LF
655.208	3" GALVANIZED RIGID METAL CONDUIT	210	LF
655.209	1/2" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT	50	LF

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	TOTAL QUANTITY	UNIT
655.2101	1-1/2" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT	100	LF
655.2102	2" LIQUID TIGHT METALLIC FLEXIBLE CONDUIT	100	LF
655.221	TYPE A PULL BOX INSIDE	10	EA
655.2212	TYPE B PULL BOX OUTDOOR	8	EA
655.222	TYPE C PULL BOX INSIDE	12	EA
655.223	TYPE D PULL BOX OUTDOOR	8	EA
655.224	TYPE E PULL BOX INSIDE	8	EA
655.225	TYPE F PULL BOX OUTDOOR	16	EA
655.227	TYPE H PULL BOX OUTDOOR	16	EA
655.42	36" X 30" X 20" NEMA 4X CABINET	3	EA
655.421	EXIT TOLL POWER AND COMMUNICATION CABINET	1	EA
655.501	1" PVC CONDUIT CONDULETS	10	EA
655.502	1-1/2" PVC CONDUIT CONDULETS	10	EA
655.503	2" PVC CONDUIT CONDULETS	24	EA
655.504	3" PVC CONDUIT CONDULETS	16	EA
655.512	1" RIGID METAL CONDUIT CONDULETS	20	EA
655.513	1-1/2" RIGID METAL CONDUIT CONDULETS	20	EA
655.514	2" RIGID METAL CONDUIT CONDULETS	16	EA
655.515	3" RIGID METAL CONDUIT CONDULETS	10	EA
655.63	4-INCH X 4-INCH PLASTIC NEMA 4X WIREWAY	160	LF
655.64	6-INCH X 6-INCH PLASTIC NEMA 4X WIREWAY	160	LF
655.801	LIGHTNING SUPPRESSION SYSTEM - SOUTHBOUND ENTRY AND EXIT	1	LS
655.802	LIGHTNING SUPPRESSION SYSTEM - NORTHBOUND ENTRY AND EXIT	1	LS
655.81	KEY SWITCH	14	EA
655.82	DUPLEX RECEPTACLE	4	EA
655.84	QUADPLEX RECEPTACLE	4	EA
655.92	LED CANOPY LIGHT FIXTURE	12	EA
655.99	LED BUMPER BEACON	6	EA
656.50	BALED HAY, IN-PLACE	50	EA
656.60	TEMPORARY BERMS	3000	LF
656.62	TEMPORARY SLOPE DRAINS	500	LF
656.632	30" TEMPORARY SILT FENCE	21,660	LF
659.10	MOBILIZATION	1	LS
670.011	SEWAGE DISPOSAL SYSTEM - SOUTHBOUND	1	LS
673.01	STORMWATER SOIL FILTER BED	1400	CY
674.10	PREFABRICATED CONCRETE MODULAR GRAVITY WALL - GOOSEFARE BROOK	1	LS
800.01	TOLL ADMINISTRATION BUILDING - NORTHBOUND	1	LS
800.011	UTILITY BUILDING - NORTHBOUND	1	LS
800.02	TOLL ADMINISTRATION BUILDING - SOUTHBOUND	1	LS
800.401	NEW TOLL BOOTH INSTALLATION - SOUTHBOUND	1	LS
800.402	NEW TOLL BOOTH INSTALLATION - NORTHBOUND	1	LS
800.901	GENERATOR PAD - SOUTHBOUND	1	LS
800.902	GENERATOR PAD - NORTHBOUND	1	LS
800.91	TRANSFORMER PAD	1	LS
800.921	STAND-BY GENERATOR AND TRANSFER SWITCH - SOUTHBOUND	1	LS
800.922	STAND-BY GENERATOR AND TRANSFER SWITCH - NORTHBOUND	1	LS
801.16	6" PVC SANITARY SEWER (SDR-35)	120	LF
801.17	8" PVC SANITARY SEWER (SDR-35)	490	LF
803.01	TEST PITS	7	EA
803.173	SEWER MANHOLE - 4 FOOT DIAMETER	2	EA
832.41	TYPE A STEEL SITE BOLLARD	30	EA
845.301	RELOCATE BUSINESS SIGN NO. 1	1	EA
845.302	RELOCATE BUSINESS SIGN NO. 2	1	EA
845.303	RELOCATE BUSINESS SIGN NO. 3	1	EA
MAINE WATER ITEMS			
803.01	TEST PITS	4	EA
810.01	MAIN INSTALLATION 6" VIA TRENCH, DUCTILE IRON (HYDRANT LATERAL)	50	LF
810.02	MAIN INSTALLATION 8" VIA TRENCH HDPE (INCLUDES HDPE SLEEVE)	370	LF
810.03	MAIN INSTALLATION 12" VIA TRENCH, DUCTILE IRON	600	LF
811.01	HYDRANT INSTALLATION	3	EA
812.01	TEMPORARY BLOWOFF ASSEMBLY	1	EA
813.01	CONNECT TO EXISTING MAIN	6	EA
820.01	THRUST BLOCK	12	EA

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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## THE GOLD STAR MEMORIAL HIGHWAY

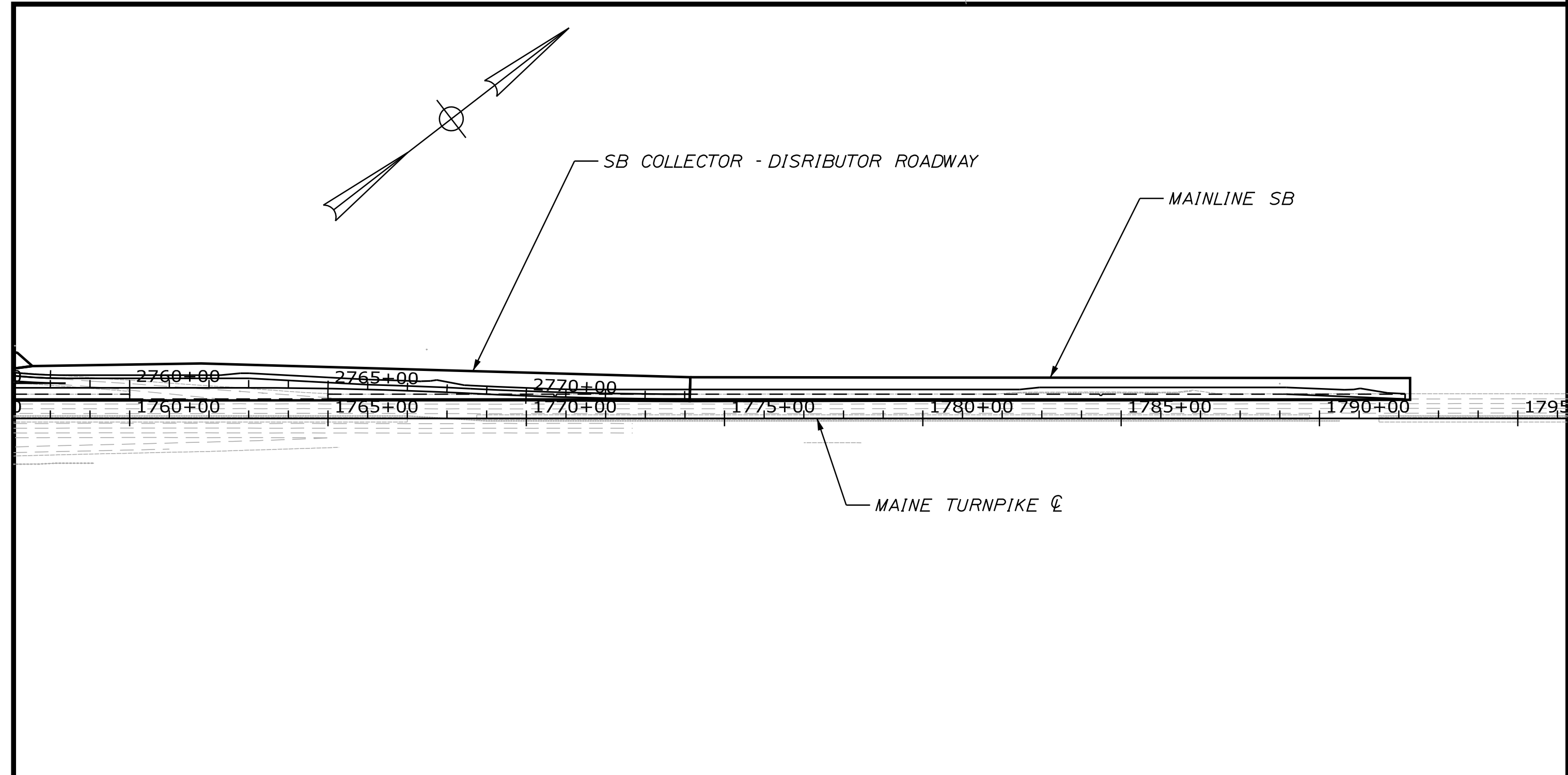
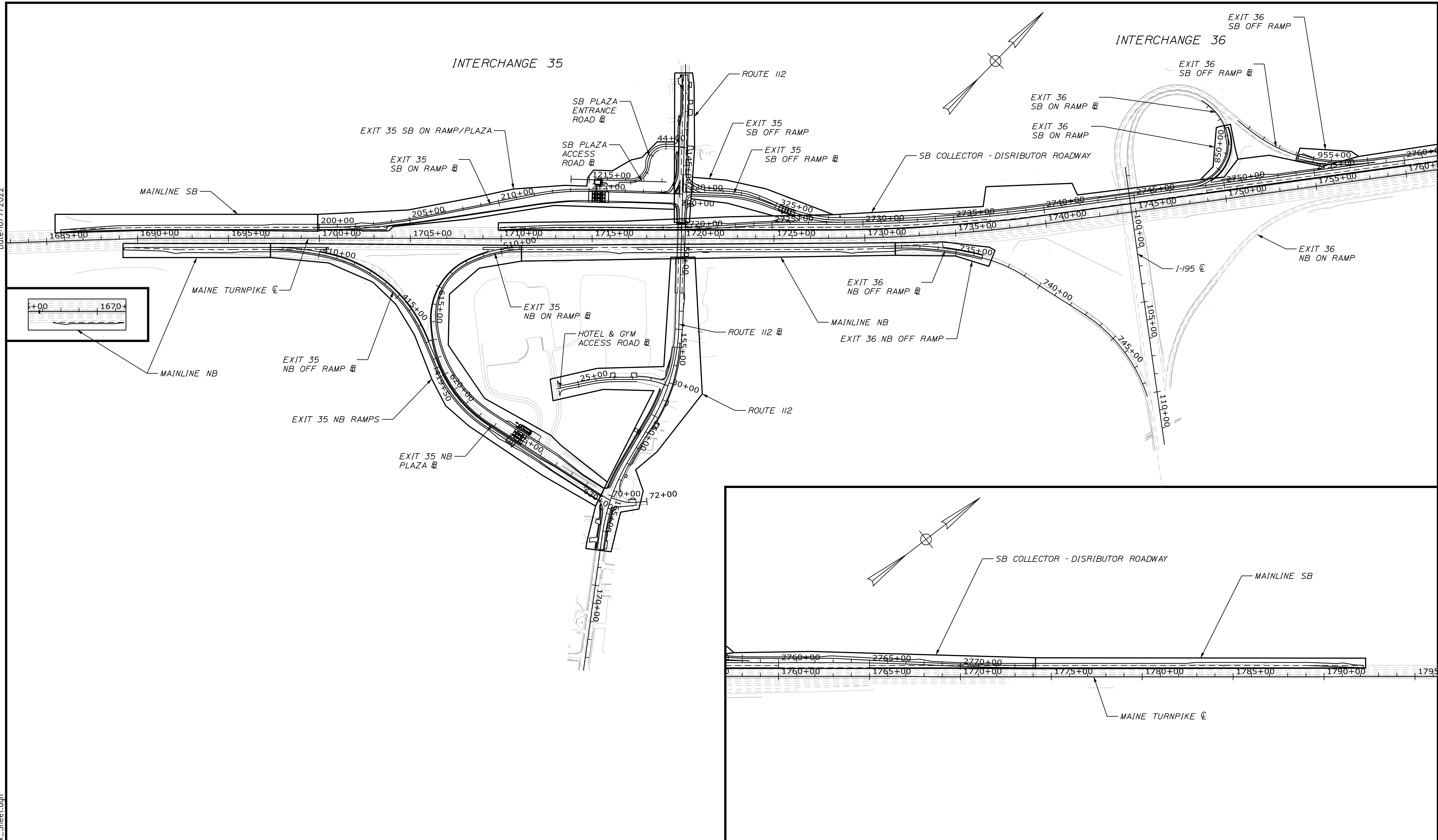
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 ESTIMATED QUANTITIES 3 &  
 EARTHWORKS SUMMARY

SHEET NUMBER: QN-03  
 CONTRACT: 2022.07  
 4 OF 735

Date: 10/17/2022

Filename: ...MSTA\_EW\_Index\_Sheet.dgn



Scale: 250 0 250 500  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

EARTHWORK SUMMARY INDEX PLAN

SHEET NUMBER: EW-01

CONTRACT: 2022.07

5 OF 735

Date:10/17/2022


Filename: ...MSTA\_Earthwork Summary\_01.dgn

	MAINLINE NB	EXIT 35 NB RAMPS	EXIT 36 NB OFF RAMP	MAINLINE SB	EXIT 35 SB ON RAMP/PLAZA	EXIT 35 SB OFF RAMP
<b>COMMON EXCAVATION FOR ESTIMATE</b>						
COMMON EXCAVATION (FROM MODEL & DRIVEWAYS)	3,589	24,360	3,198	6,599	14,615	20
GRUBBING IN FILL	63	422	3	343	3,215	255
MUCK EXCAVATION	0	343	0	160	2,340	2,280
ADDITIONAL EXCAVATION (USF, DRAINAGE OUTLETS & GB)	0	0	0	0	507	0
OLD EXIT 5 RAMP EXCAVATION	0	0	0	0	11,289	0
EXIT 36 EXISTING RAMP EMBANKMENT	0	0	0	0	0	0
<b>TOTAL COMMON EXCAVATION</b>	<b>3,653</b>	<b>25,124</b>	<b>3,201</b>	<b>7,102</b>	<b>31,966</b>	<b>2,556</b>
<b>FILL FOR BORROW CALCULATIONS</b>						
COMMON FILL (FROM MODEL OR PLANS)	12	2,746	0	955	36,735	10,916
COMMON FILL FOR PRELOAD	0	0	0	0	30,866	0
GRUBBING IN FILL	63	422	3	343	3,215	255
MUCK EXCAVATION	0	343	0	160	2,340	2,280
<b>TOTAL FILL</b>	<b>75</b>	<b>3,511</b>	<b>3</b>	<b>1,457</b>	<b>42,289</b>	<b>13,452</b>
<b>ROCK EXCAVATION FOR ESTIMATE</b>						
ROCK EXCAVATION (APPROXIMATE)	0	1,768	0	0	0	0
<b>TOTAL ROCK EXCAVATION</b>	<b>0</b>	<b>1,768</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS</b>						
ALL DEDUCTIONS:						
GRUBBING IN CUT	613	3,113	245	1,774	2,831	66
GRUBBING IN FILL	63	422	3	343	3,215	255
MUCK EXCAVATION	0	343	0	160	2,340	2,280
PAVEMENT SALVAGE (CUT AND FILL)	1,443	2,309	105	500	0	0
<b>TOTAL DEDUCTIONS</b>	<b>2,119</b>	<b>6,186</b>	<b>353</b>	<b>2,777</b>	<b>8,386</b>	<b>2,601</b>
TOTAL AVAILABLE COMMON EXCAVATION (-) TOTAL DEDUCTIONS	1,534	18,938	2,848	4,325	23,580	-45
TOTAL AVAILABLE STRUCTURAL EXCAVATION (UNDERDRAIN ONLY)	0	400	0	0	50	0
<b>TOTAL AVAILABLE NON-ROCK EXCAVATION</b>	<b>1,534</b>	<b>19,338</b>	<b>2,848</b>	<b>4,325</b>	<b>23,629</b>	<b>-45</b>
<b>COMPUTATION OF WASTE STORAGE &amp; WASTE MATERIAL</b>						
GRUBBING IN CUT	613	3,113	245	1,774	2,831	66
GRUBBING IN FILL	63	422	3	343	3,215	255
MUCK EXCAVATION	0	343	0	160	2,340	2,280
<b>TOTAL WASTE MATERIAL</b>	<b>676</b>	<b>3,877</b>	<b>248</b>	<b>2,277</b>	<b>8,386</b>	<b>2,601</b>
TOTAL WASTE MATERIAL TO BE UTILIZED	0	0	0	0	0	0
<b>TOTAL WASTE MATERIAL TO BE WASTED</b>	<b>676</b>	<b>3,877</b>	<b>248</b>	<b>2,277</b>	<b>8,386</b>	<b>2,601</b>
<b>COMPUTATION FOR GRANULAR BORROW FOR ESTIMATE</b>						
GRANULAR BORROW TO REPLACE MUCK	0	343	0	160	2,340	2,280
GRANULAR BORROW TO MAINTAIN TRAFFIC	0	0	0	0	0	0
GRANULAR BORROW FOR CULVERT BEDDING	0	0	0	0	0	0
<b>TOTAL GRANULAR BORROW</b>	<b>0</b>	<b>343</b>	<b>0</b>	<b>160</b>	<b>2,340</b>	<b>2,280</b>
AGGREGATE BASE COURSE TYPE A FOR PRELOAD DRAINAGE LAYER	0	0	0	0	7,322	0
<b>COMPUTATION FOR COMMON BORROW FOR ESTIMATE</b>						
TOTAL AVAILABLE NON-ROCK EXCAVATION	1,534 x 0.90 = 1,380	19,338 x 0.90 = 17,404	2,848 x 0.90 = 2,563	4,325 x 0.90 = 3,892	23,629 x 0.90 = 21,266	-45 x 0.90 = -41
TOTAL AVAILABLE ROCK EXCAVATION	0 x 1.30 = 0	1,768 x 1.30 = 2,299	0 x 0.90 = 0	0 x 1.30 = 0	0 x 1.30 = 0	0 x 1.30 = 0
TOTAL AVAILABLE WASTE MATERIAL TO BE UTILIZED	0 x 0.90 = 0	0 x 0.90 = 0	0 x 0.90 = 0	0 x 0.90 = 0	0 x 0.90 = 0	0 x 0.90 = 0
<b>TOTAL AVAILABLE EXCAVATION</b>	<b>1,380</b>	<b>19,703</b>	<b>2,563</b>	<b>3,892</b>	<b>21,266</b>	<b>-41</b>
BORROW NEEDED = TOTAL FILL (-) TOTAL AVAILABLE EXCAVATION	0	0	0	0	21,023	13,493
IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION (-) TOTAL FILL, (-) TOTAL WASTE MATERIAL TO BE WASTED	1,981	20,069	2,808	4,712	8,386	2,601
<b>TOTAL USABLE SURPLUS MATERIAL = AVAILABLE EXCAVATION (-) TOTAL FILL</b>	<b>1,305</b>	<b>16,192</b>	<b>2,561</b>	<b>2,435</b>	<b>0</b>	<b>0</b>
<b>SURPLUS MATERIAL</b>	<b>1,981</b>	<b>20,069</b>	<b>2,808</b>	<b>4,712</b>	<b>8,386</b>	<b>2,601</b>
GRANULAR BORROW IN LOW WET AREAS	0	0	0	0	0	0
GRANULAR BORROW TO MAINTAIN TRAFFIC	0	0	0	0	0	0
BORROW NEEDED (-) REQUIRED GRANULAR BORROW WITHIN FILL	0	0	0	0	21,023	13,493
<b>COMMON BORROW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21,023</b>	<b>13,493</b>

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

By	Date	By	Date
Designed	JRH 10\22	Checked	PLP 10\22
Drawn	THG 10\22	In Charge of	LEM 10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 EARTHWORK SUMMARY 1

SHEET NUMBER: EW-02  
 CONTRACT:2022.07  
 6 OF 735

Date:10/17/2022


Filename: ...MSTA\_Earthwork Summary\_02.dgn

	SB COLLECTOR - DISTRIBUTOR ROADWAY	EXIT 36 SB ON RAMP	EXIT 36 SB OFF RAMP	ROUTE 112	TOTAL
<b>COMMON EXCAVATION FOR ESTIMATE</b>					
COMMON EXCAVATION (FROM MODEL & DRIVEWAYS)	22,534	1,188	1,927	5,180	83,211
GRUBBING IN FILL	1,352	24	4	254	5,934
MUCK EXCAVATION	2,475	83	0	960	8,640
ADDITIONAL EXCAVATION (USF, DRAINAGE OUTLETS & GB)	17,768	0	0	105	18,380
OLD EXIT 5 RAMP EXCAVATION	0	0	0	0	11,289
EXIT 36 EXISTING RAMP EMBANKMENT	0	0	0	0	0
<b>TOTAL COMMON EXCAVATION</b>	<b>44,129</b>	<b>1,295</b>	<b>1,931</b>	<b>6,499</b>	<b>127,454</b>
<b>FILL FOR BORROW CALCULATIONS</b>					
COMMON FILL (FROM MODEL OR PLANS)	3,899	48	0	2,882	58,194
COMMON FILL FOR PRELOAD	0	0	0	0	30,866
GRUBBING IN FILL	1,352	24	4	254	5,934
MUCK EXCAVATION	2,475	83	0	960	8,640
<b>TOTAL FILL</b>	<b>7,726</b>	<b>155</b>	<b>4</b>	<b>4,096</b>	<b>72,768</b>
<b>ROCK EXCAVATION FOR ESTIMATE</b>					
ROCK EXCAVATION (APPROXIMATE)	0	0	0	0	1,768
<b>TOTAL ROCK EXCAVATION</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,768</b>
<b>AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS</b>					
ALL DEDUCTIONS:					
GRUBBING IN CUT	5,752	181	246	531	15,350
GRUBBING IN FILL	1,352	24	4	254	5,934
MUCK EXCAVATION	2,475	83	0	960	8,640
PAVEMENT SALVAGE (CUT AND FILL)	920	137	227	1,384	7,025
<b>TOTAL DEDUCTIONS</b>	<b>10,498</b>	<b>424</b>	<b>476</b>	<b>3,129</b>	<b>36,949</b>
TOTAL AVAILABLE COMMON EXCAVATION (-) TOTAL DEDUCTIONS	33,630	871	1,455	3,370	90,505
TOTAL AVAILABLE STRUCTURAL EXCAVATION (UNDERDRAIN ONLY)	718	57	0	670	1,894
<b>TOTAL AVAILABLE NON-ROCK EXCAVATION</b>	<b>34,349</b>	<b>928</b>	<b>1,455</b>	<b>4,040</b>	<b>92,400</b>
<b>COMPUTATION OF WASTE STORAGE &amp; WASTE MATERIAL</b>					
GRUBBING IN CUT	5,752	181	246	531	15,350
GRUBBING IN FILL	1,352	24	4	254	5,934
MUCK EXCAVATION	2,475	83	0	960	8,640
<b>TOTAL WASTE MATERIAL</b>	<b>9,578</b>	<b>287</b>	<b>249</b>	<b>1,745</b>	<b>29,924</b>
TOTAL WASTE MATERIAL TO BE UTILIZED	0	0	0	0	0
<b>TOTAL WASTE MATERIAL TO BE WASTED</b>	<b>9,578</b>	<b>287</b>	<b>249</b>	<b>1,745</b>	<b>29,924</b>
<b>COMPUTATION FOR GRANULAR BORROW FOR ESTIMATE</b>					
GRANULAR BORROW TO REPLACE MUCK	2,475	83	0	960	8,640
GRANULAR BORROW TO MAINTAIN TRAFFIC	0	0	0	0	0
GRANULAR BORROW FOR CULVERT BEDDING	0	0	0	0	0
<b>TOTAL GRANULAR BORROW</b>	<b>2,475</b>	<b>83</b>	<b>0</b>	<b>960</b>	<b>8,640</b>
AGGREGATE BASE COURSE TYPE A FOR PRELOAD DRAINAGE LAYER	0	0	0	0	7,322
<b>COMPUTATION FOR COMMON BORROW FOR ESTIMATE</b>					
TOTAL AVAILABLE NON-ROCK EXCAVATION	34,349 x 0.90 = 30,914	928 x 0.90 = 835	1,455 x 0.90 = 1,309	4,040 x 0.90 = 3,636	92,400 x 0.90 = 83,160
TOTAL AVAILABLE ROCK EXCAVATION	0 x 1.30 = 0	0 x 1.30 = 0	0 x 0.90 = 0	0 x 1.30 = 0	1,768 x 1.30 = 2,299
TOTAL AVAILABLE WASTE MATERIAL TO BE UTILIZED	0 x 0.90 = 0	0 x 0.90 = 0	0 x 0.90 = 0	0 x 0.90 = 0	0 x 0.90 = 0
<b>TOTAL AVAILABLE EXCAVATION</b>	<b>30,914</b>	<b>835</b>	<b>1,309</b>	<b>3,636</b>	<b>85,458</b>
BORROW NEEDED = TOTAL FILL (-) TOTAL AVAILABLE EXCAVATION	0	0	0	460	0
IF NO BORROW IS NEEDED, SURPLUS MATERIAL = AVAILABLE EXCAVATION (-) TOTAL FILL, (-) TOTAL WASTE MATERIAL TO BE WASTED	32,766	967	1,555	1,745	42,615
<b>TOTAL USABLE SURPLUS MATERIAL = AVAILABLE EXCAVATION (-) TOTAL FILL</b>	<b>23,188</b>	<b>680</b>	<b>1,306</b>	<b>0</b>	<b>12,691</b>
<b>SURPLUS MATERIAL</b>	<b>32,766</b>	<b>967</b>	<b>1,555</b>	<b>1,745</b>	<b>42,615</b>
GRANULAR BORROW IN LOW WET AREAS	0	0	0	0	0
GRANULAR BORROW TO MAINTAIN TRAFFIC	0	0	0	0	0
BORROW NEEDED (-) REQUIRED GRANULAR BORROW WITHIN FILL	0	0	0	460	0
<b>COMMON BORROW</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>460</b>	<b>0</b>

Scale: NOT TO SCALE

No.	Revision	By	Date

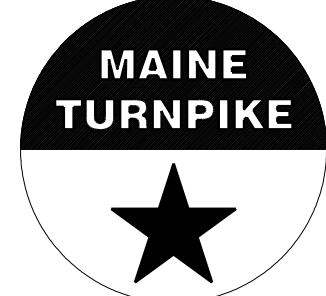
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

By	Date	By	Date
Designed	JRH 10\22	Checked	PLP 10\22
Drawn	THG 10\22	In Charge of	LEM 10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 EARTHWORK SUMMARY 2

SHEET NUMBER: EW-03  
 CONTRACT:2022.07  
 7 OF 735

Date:10/17/2022

Filename: ... \HIGHWAY\MSTA\...GeneralNotes.dgn

GENERAL

- 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 OR PROJECT SPECIFICATIONS.
- ALL EXISTING ROADWAYS USED IN ACCESSING THE SITE SHALL REMAIN CLEAN IN ACCORDANCE WITH THE 2014 MAINEDOT STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- A COPY OF THE "FINAL GEOTECHNICAL ENGINEERING REPORT" IS AVAILABLE FOR DOWNLOAD AT MAINETURNPIKE.COM.
- A COPY OF THE "LIMITED SUBSURFACE INVESTIGATION SUMMARY" 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.
- BASELINE IS BASED ON FIELD SURVEY AND DOES NOT MATCH ORIGINAL I-95 CONSTRUCTION BASELINE FROM THE 1940'S. THE FIELD SURVEY BASELINE IS A BEST FIT CENTERLINE.
- 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 AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND MICROSTATION, OR OTHER APPROVED FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO: PAVEMENT, CONCRETE, BARRIER, GUARDRAIL, CULVERTS, MEDIAN DRAINAGE, FOUNDATIONS, WIRING, SIGNS, ETC.
- THE LOCATION OF THE RIGHT-OF-WAY FENCE SHALL BE CONFIRMED BY THE RESIDENT.
- FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE THE AUTHORITY THREE HARD COPIES OF ALL O&M MANUALS ASSOCIATED WITH THE PROJECT AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT CONTAINING ALL O&M MANUALS IN A SINGLE FILE.
- FOLLOWING THE COMPLETION OF WORK, THE CONTRACTOR SHALL PROVIDE ONE HARD COPY AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT OF ALL APPROVED SUBMITTALS ASSOCIATED WITH THE PROJECT ORGANIZED BY WORK CATEGORY.
- THE AUTHORITY WILL SUPPLY AND MAINTAIN THE FIELD OFFICE AT 348 NORTH STREET FOR AUTHORITY PERSONNEL, INCLUDING UTILITIES AND SUPPLIES. THE CONTRACTOR WILL REMOVE THIS BUILDING AT THE END OF THE PROJECT. THE CONTRACTOR SHALL DISCONNECT UTILITIES AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH SP 202 PRIOR TO PAVING ROUTE 112 IN THIS AREA. THE CONTRACTOR SHALL PROVIDE A MINIMUM 30 DAYS NOTICE TO THE RESIDENT PRIOR TO ANTICIPATED UTILITY DISCONNECTION.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE FIELD OFFICE FOR THE DURATION OF THE PROJECT INCLUDING PLOWING, SANDING, AND SALTING OF THE DRIVEWAY AND WALKWAYS. PAYMENT FOR MAINTAINING ACCESS SHALL BE INCIDENTAL TO THE CONTRACT.

UTILITY

- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM EXISTING PLANS 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.
- THE CONTRACTOR SHALL CONTACT ALL NON-MEMBERS THROUGH www.OKtoDIG.com OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. ALL PROPOSED EXCAVATION LOCATIONS SHALL BE MARKED AT THE TIME OF THE NOTIFICATION. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAFE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATER COORDINATION.
- THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 CALENDAR DAYS PRIOR TO SUBMITTING A UTILITY LOCATE REQUEST THROUGH DIG SAFE SO THAT THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME.
- FOLLOWING THE COMPLETION OF THE INITIAL UTILITY LOCATE, THE CONTRACTOR WILL GPS ALL UTILITIES WITHIN THE PROJECT LIMITS AND PROVIDE A COPY OF THE DIG SAFE RECORDS TO THE AUTHORITY. THE CONTRACTOR, ACTING AS THE AUTHORITY'S THIRD PARTY LOCATOR SHALL BE RESPONSIBLE FOR REMARKING ALL MAINE TURNPIKE FACILITIES WHEN A DIG SAFE UTILITY LOCATE IS CALLED IN FOR THE PROJECT.
- THE UTILITIES INVOLVED IN THIS CONTRACT ARE:  
MAINE TURNPIKE AUTHORITY (LIGHTING)  
CENTRAL MAINE POWER (ELECTRICAL)  
MAINE WATER COMPANY (WATER)  
CITY OF SACO WATER RESOURCE RECOVERY DEPARTMENT (SEWER)  
UNITIL (NATURAL GAS)  
CONSOLIDATED COMMUNICATIONS (COMMUNICATIONS)  
CHARTER COMMUNICATIONS (CABLE)  
OXFORD NETWORKS/FIRST LIGHT (COMMUNICATIONS)
- ALL UTILITY FACILITIES SHALL BE ADJUSTED BY THE RESPECTIVE UTILITIES UNLESS NOTED.
- FILL OVER THE EXISTING WATER SHALL BE LIMITED TO 3' UNTIL THE NEW WATER MAIN IS INSTALLED AND OPERATIONAL.

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. MUCK EXCAVATION HAS BEEN ESTIMATED USING THE MUCK PROBE DEPTHS PROVIDED IN THE GEOTECHNICAL REPORT.
- 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.
- EXISTING INSLOPES STEEPER THAN 2:1 IN PROPOSED FILL AREAS SHALL BE BENCHED AS SHOWN IN THE DETAILS OR AS DIRECTED BY THE RESIDENT.
- ALL GRANULAR BORROW SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.

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 UNDER THE APPROPRIATE PAY 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.
- NEWLY DISTURBED EARTH SHALL BE MULCHED PRIOR TO A RAIN EVENT. THIS WORK SHALL BE PAID FOR UNDER ITEM 619.1202 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.
- 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.
- SEEDING METHOD NO. 1 SHALL BE USED AROUND THE TOLL ADMINISTRATIVE BUILDING. ALL OTHER SLOPES SHALL BE SEEDED WITH SEEDING METHOD NO. 2 UNLESS OTHERWISE NOTED.
- 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. 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.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE USED AND MAINTAINED. NO TRACKING OF SOIL ON THE MAINE TURNPIKE OR LOCAL ROADS WILL BE ALLOWED.
- A DOUBLE ROW OF SILT FENCE PROTECTION SHALL BE INSTALLED AT ALL STREAM LOCATIONS AND OPEN WATER WETLANDS AS SHOWN ON THE PLANS.
- PLACE A TWO FOOT STRIP OF TEMPORARY EROSION CONTROL BLANKET ON THE SIDE SLOPES ALONG THE TOP OF THE RIPRAP AND BEHIND THE WINGWALLS.

DRAINAGE

- 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 PUMPED GROUT FILL (ITEM 602.40).
- 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 CATCH BASINS TO REMAIN SHALL BE CLEANED AS DIRECTED BY THE RESIDENT. PAYMENT WILL BE MADE UNDER ITEM 604J82 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 OPERATORS). 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 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.
- CATCH BASIN GRATES THAT WILL SEE TRAFFIC DURING MOT OPERATIONS SHALL BE SECURED AS NOTED IN THE SPECIAL PROVISIONS.
- ANY NECESSARY CUTTING OF EXISTING PIPES TO FIT IN AREAS OF PROPOSED CATCH BASINS AND MANHOLES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED CATCH BASIN AND MANHOLE ITEMS. THE END SECTION OF RCP PIPES NOTED TO BE EXTENDED MAY NEED TO BE REPLACED AS DIRECTED BY THE RESIDENT.
- ANY NECESSARY CUTTING OF EXISTING CATCH BASINS TO TAKE A PROPOSED PIPE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED CULVERT ITEMS.


GUARDRAIL

- AT THE END OF EACH WORK DAY, THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASHWORTHY END TREATMENT ON ALL GUARDRAIL OR CONCRETE BARRIER WITHIN ALL WORK AREAS THAT ARE ACCESSIBLE TO TRAFFIC.
- CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.
- 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 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 AND ACCESS ROADS. 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.
- IN NON-GUARDRAIL AREAS WHERE CURB IS PRESENT, A DELINEATOR POST WILL BE INSTALLED AT EACH END OF EACH RUN OF CURB.
- ALL PERMANENT GUARDRAIL AND END TERMINALS SHALL BE MASH 2016 COMPLIANT.
- HOLES CREATED BY GUARDRAIL REMOVAL WILL BE FILLED AND COMPACTED WITH APPROVED MATERIALS AS DIRECTED BY THE RESIDENT. PAYMENT TO BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.
- ALL EXISTING DELINEATOR AND MILE MARKER POSTS SHALL BE REMOVED AND RESET. PAYMENT WILL BE MADE UNDER ITEM 606.356 DELINEATOR POST-REMOVE AND RESET.
- ATTENUATORS MANUFACTURED AFTER DECEMBER 31, 2019 SHALL MEET THE MANUAL FOR ASSESSING SAFETY HARDWARE (MASH).

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL NOTES 1

SHEET NUMBER: QN-04  
CONTRACT:2022.07  
8 OF 735







Date: 10/17/2022

ITEM 610.181 - TEMPORARY  
STONE CHECK DAM  
(CONTINUED)

STATION	OFFSET
1708-03	98' LT
1708-54	99' LT
1709-04	101' LT
1709-56	99' LT
1710-04	111' LT
1711-00	114' LT
1711-50	116' LT
1712-00	118' LT
1712-50	119' LT
1713-00	121' LT
1713-50	121' LT
1714-00	121' LT
1714-50	121' LT
1715-00	121' LT
1715-50	120' LT
1716-00	119' LT
1716-50	118' LT
1717-00	116' LT
1717-50	113' LT
1774-50	105' LT
1775-00	106' LT
1775-50	106' LT
1776-00	106' LT
1776-50	106' LT
1776-99	106' LT
1777-50	106' LT
1778-50	104' LT
1779-00	105' LT
1779-50	105' LT
1780-00	103' LT
1780-50	102' LT
1781-00	101' LT
1782-00	96' LT
1782-50	94' LT
1783-00	93' LT
1784-00	90' LT
1785-00	89' LT
1785-50	89' LT
1786-00	89' LT
1786-50	89' LT
1787-00	82' LT
1790-50	92' LT
2718-10	58' LT
2718-50	54' LT
2721-00	31' LT
2721-50	31' LT
2722-00	57' LT

ITEM 610.181 - TEMPORARY  
STONE CHECK DAM  
(CONTINUED)

STATION	OFFSET
2722-50	54' LT
2723-00	53' LT
2723-50	51' LT
2724-00	50' LT
2724-50	47' LT
2725-50	53' LT
2726-05	39' LT
2733-00	52' LT
2733-50	53' LT
2734-00	55' LT
2734-50	48' LT
2735-00	45' LT
2735-50	43' LT
2736-00	41' LT
2736-50	39' LT
2741-84	61' LT
2742-31	51' LT
2742-76	42' LT
2747-00	38' LT
2755-00	37' LT
2758-50	51' LT
2759-00	51' LT
2759-50	52' LT
2760-00	52' LT
2760-50	51' LT
2761-00	51' LT
2761-50	51' LT
2762-00	48' LT
2762-50	47' LT
2763-00	48' LT
2763-50	43' LT
2764-50	36' LT
2766-50	44' LT
2767-00	49' LT
2767-50	47' LT
2768-00	53' LT
2768-50	50' LT
2769-00	49' LT
2769-50	49' LT
2770-00	49' LT
2771-00	53' LT
2771-50	54' LT
2772-00	54' LT
2772-50	55' LT
2773-00	55' LT
2773-50	56' LT
2774-00	56' LT

ITEM 656.632 - 30' TEMPORARY SILT FENCE


STATION	TO	STATION	LENGTH
STA 24-50 LT		25-22 LT	78.65 LF
STA 24-50 RT		24-96 RT	50.08 LF
STA 24-96 RT		25-36 RT	87.76 LF
STA 25-22 LT		25-36 LT	DOUBLE ROW 23.18 LF
STA 25-44 LT		25-63 LT	DOUBLE ROW 44.70 LF
STA 25-44 RT		27-54 RT	DOUBLE ROW 415.92 LF
STA 25-63 LT		26-59 LT	106.78 LF
STA 27-69 RT		27-94 RT	DOUBLE ROW 40.00 LF
STA 27-94 RT		29-00 RT	108.00 LF
STA 45-47 RT		143-58 RT	197.30 LF
STA 46-09 RT		45-47 RT	DOUBLE ROW 221.58 LF
STA 140-95 LT		141-36 LT	53.25 LF
STA 141-00 RT		141-20 RT	29.77 LF
STA 141-53 RT		143-22 RT	169.09 LF
STA 141-72 LT		142-33 LT	72.43 LF
STA 142-62 LT		142-85 LT	38.13 LF
STA 143-23 LT		144-86 LT	183.14 LF
STA 145-14 LT		146-70 LT	216.56 LF
STA 145-25 RT		145-89 RT	234.91 LF
STA 148-59 RT		148-59 RT	170.64 LF
STA 149-06 LT		321-91 RT	428.06 LF
STA 151-04 RT		153-05 RT	206.71 LF
STA 151-41 LT		153-49 LT	209.43 LF
STA 155-72 LT		156-46 LT	89.22 LF
STA 155-97 RT		157-31 RT	134.39 LF
STA 156-56 LT		158-94 LT	246.63 LF
STA 159-19 LT		160-21 LT	111.24 LF
STA 160-62 LT		161-73 LT	118.11 LF
STA 162-00 RT		630-73 LT	226.66 LF
STA 162-95 LT		71-11 LT	213.84 LF
STA 165-73 RT		166-10 RT	DOUBLE ROW 82.24 LF
STA 166-10 RT		166-35 RT	26.74 LF
STA 166-62 RT		167-47 RT	119.62 LF
STA 167-72 RT		168-02 RT	67.24 LF
STA 203-76 RT		206-75 RT	407.82 LF
STA 210-53 LT		211-93 LT	DOUBLE ROW 296.24 LF
STA 211-93 LT		214-53 LT	315.38 LF
STA 214-53 LT		1216-07 LT	DOUBLE ROW 453.96 LF
STA 320-66 LT		321-91 LT	126.02 LF
STA 321-91 LT		322-43 LT	DOUBLE ROW 128.88 LF
STA 321-91 RT		324-02 RT	DOUBLE ROW 404.38 LF
STA 322-43 LT		324-50 LT	221.13 LF
STA 324-02 RT		324-90 RT	90.18 LF
STA 326-00 LT		2733-29 LT	DOUBLE ROW 1430.88 LF
STA 412-60 RT		414-00 RT	151.39 LF
STA 413-00 LT		416-75 LT	407.96 LF
STA 417-51 RT		418-96 RT	144.87 LF
STA 510-50 RT		1719-59 RT	908.64 LF
STA 624-48 LT		626-00 LT	DOUBLE ROW 325.06 LF
STA 626-25 LT		626-75 LT	50.09 LF
STA 627-23 LT		630-73 LT	DOUBLE ROW 764.22 LF
STA 733-00 RT		734-00 RT	98.89 LF
STA 734-50 LT		736-49 LT	208.00 LF
STA 735-50 RT		746-90 RT	1120.16 LF
STA 737-74 LT		737-89 LT	175.90 LF
STA 851-00 RT		852-44 RT	DOUBLE ROW 350.46 LF
STA 1216-07 LT		46-09 RT	250.05 LF
STA 1685-74 LT		1687-50 LT	192.02 LF
STA 1689-00 LT		1694-87 LT	591.21 LF
STA 1689-18 RT		1690-50 RT	145.13 LF
STA 1692-50 RT		1694-26 RT	189.30 LF
STA 1694-26 RT		412-60 RT	DOUBLE ROW 1656.74 LF
STA 1694-87 LT		1695-28 LT	DOUBLE ROW 87.74 LF
STA 1695-28 LT		1697-73 LT	244.96 LF
STA 1697-73 LT		1699-33 LT	DOUBLE ROW 338.98 LF
STA 1699-54 LT		201-25 LT	DOUBLE ROW 315.46 LF
STA 1714-28 RT		1715-00 RT	104.33 LF
STA 1720-12 RT		1721-11 RT	102.35 LF
STA 1721-39 RT		1723-06 RT	167.39 LF
STA 1723-06 RT		733-00 RT	DOUBLE ROW 1996.56 LF
STA 1783-50 LT		1783-82 LT	DOUBLE ROW 63.68 LF
STA 1787-00 LT		1789-99 LT	DOUBLE ROW 643.88 LF
STA 1791-01 LT		1792-23 LT	133.49 LF
STA 2747-28 LT		2747-93 RT	65.23 LF
STA 2747-93 RT		852-63 LT	DOUBLE ROW 922.12 LF
STA 2750-90 LT		2751-45 LT	DOUBLE ROW 168.58 LF
STA 2751-52 LT		2751-79 LT	DOUBLE ROW 85.14 LF
STA 2757-12 LT		2760-50 LT	361.40 LF
STA 2764-89 LT		2765-14 RT	DOUBLE ROW 67.88 LF
STA 2765-14 LT		2766-00 LT	85.83 LF

Filename: ...MSTA\_Quantity\_Notes.dgn

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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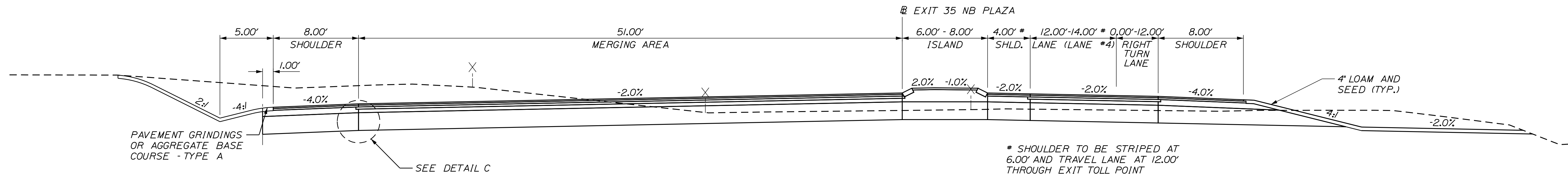


## THE GOLD STAR MEMORIAL HIGHWAY

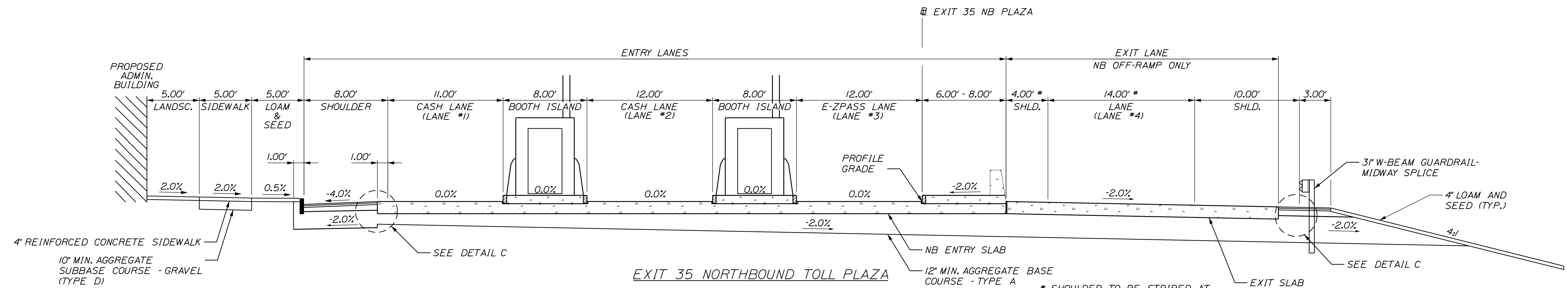
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
CONSTRUCTION NOTES 3

SHEET NUMBER: QN-07  
CONTRACT: 2022.07  
11 OF 735

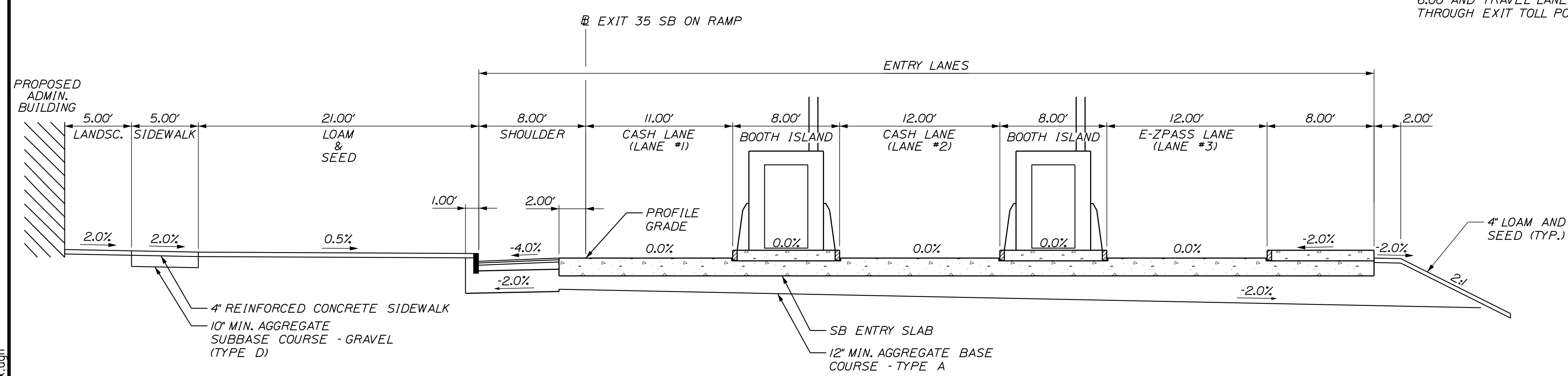
Date: 10/17/2022



**EXIT 35 NORTHBOUND TOLL PLAZA**  
STA. 626+00.00 TO STA. 631+00.00  
STA. 618+00.00 TO STA. 625+00.00

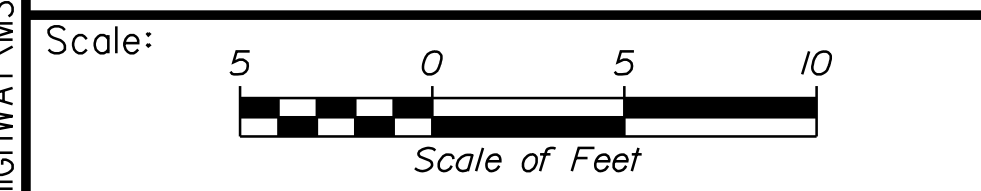


**EXIT 35 NORTHBOUND TOLL PLAZA**



**EXIT 35 SOUTHBOUND TOLL PLAZA**

- 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. 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.
  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. ITEM 409.152 (TRACKLESS) SHALL BE USED UNDER SURFACE LIFTS. ITEM 409.15 SHALL BE USED BETWEEN ALL OTHER LIFTS. THE CONTRACTOR SHALL PROTECT ALL TOLL SLABS FROM ANY TRACKING OF TACK COAT.
  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.



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

TYPICAL SECTIONS 1

SHEET NUMBER: TS-1

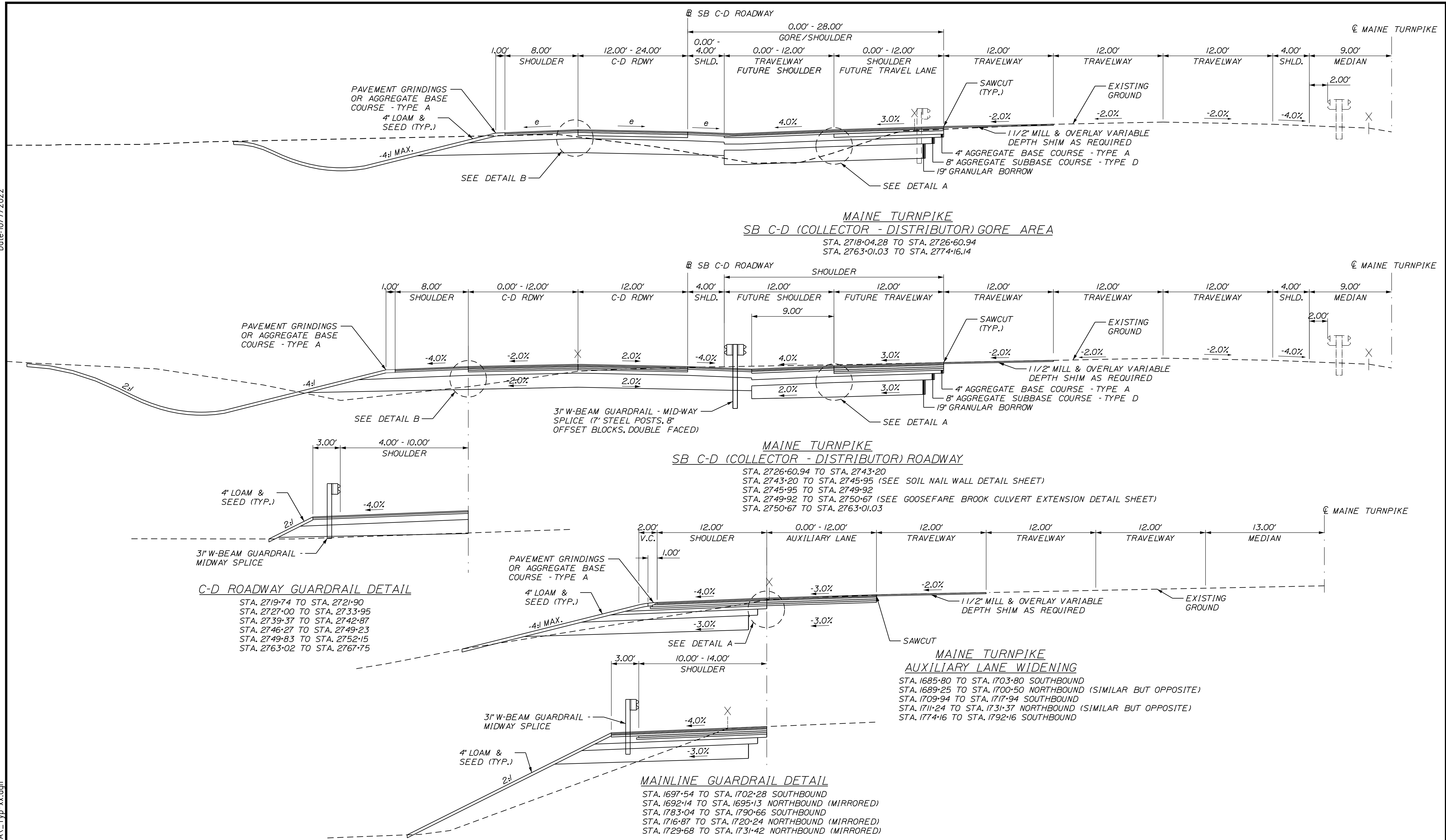
CONTRACT: 2022.07

12 OF 735

Filename: ...000.HIGHWAY\MSTA\...Typ-xx.dgn

Date: 10/17/2022

Filename: ...00\HIGHWAY\MSTA\...Typ-xx.dgn



Scale: 5 0 5 10  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

TYPICAL SECTIONS 2

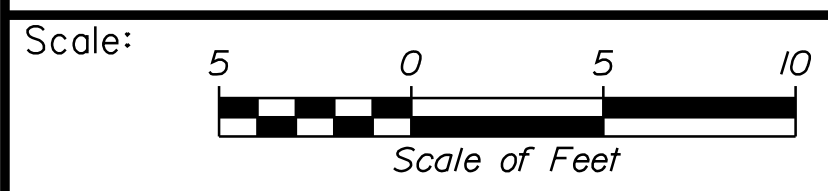
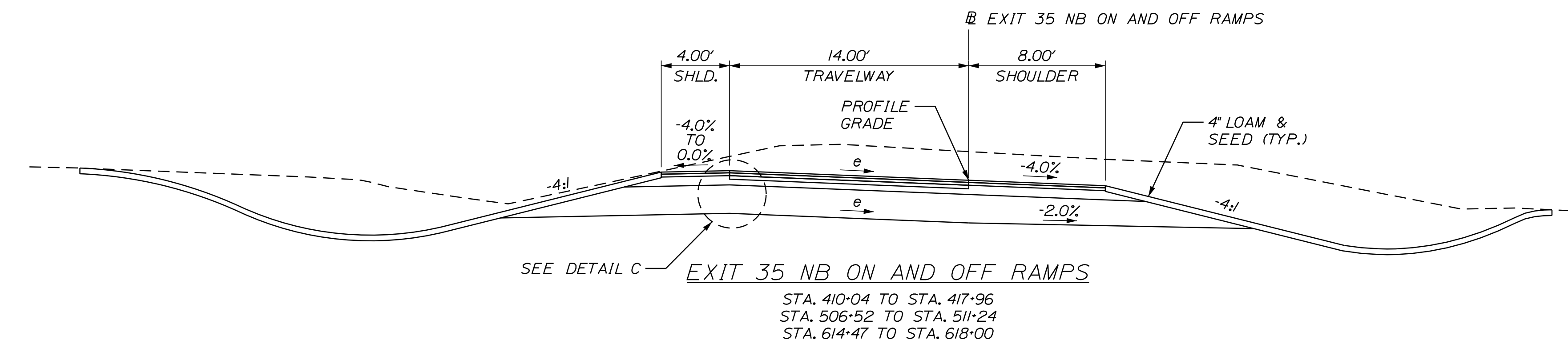
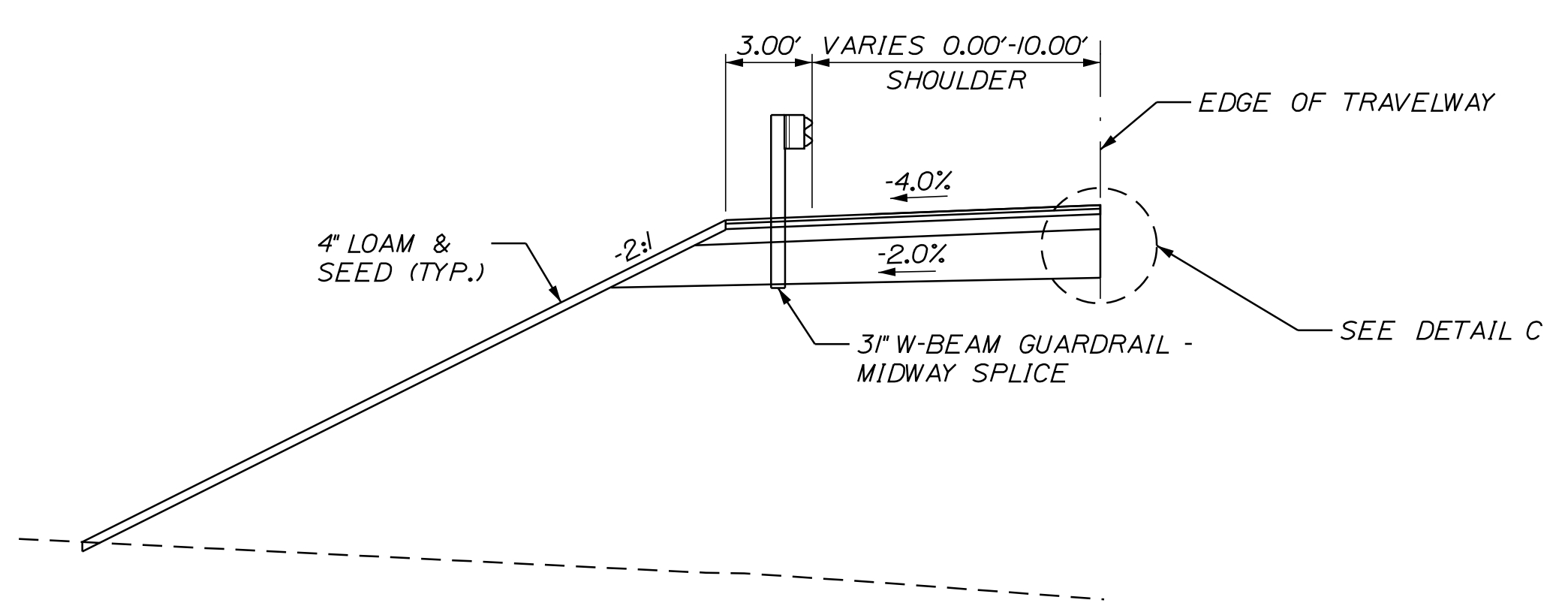
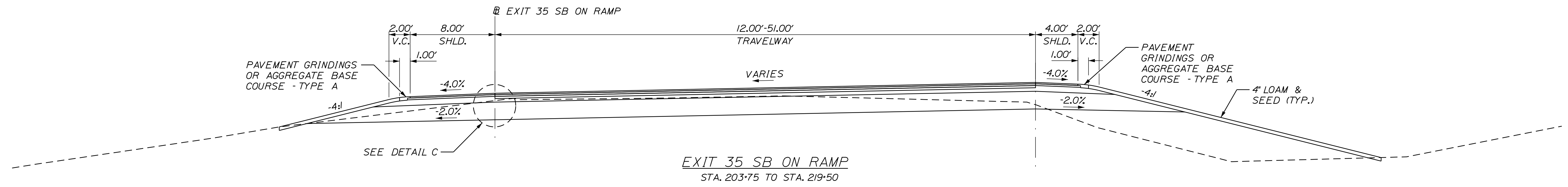
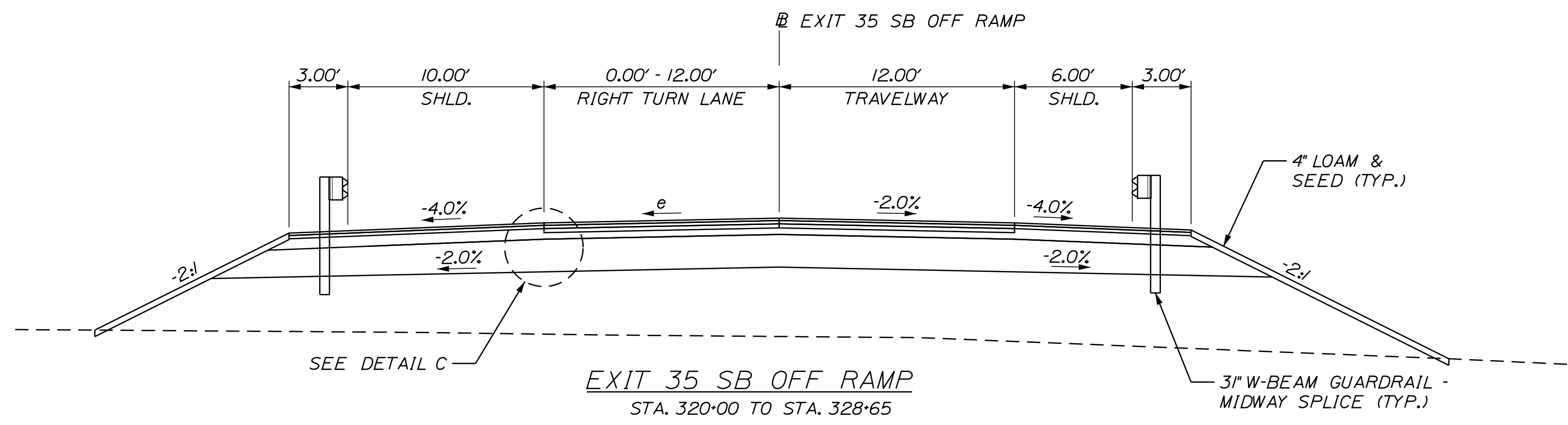
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CONTRACT: 2022.07

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Date: 10/17/2022

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Designed by:

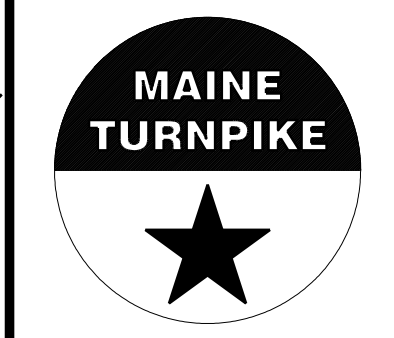
**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

TYPICAL SECTIONS 3

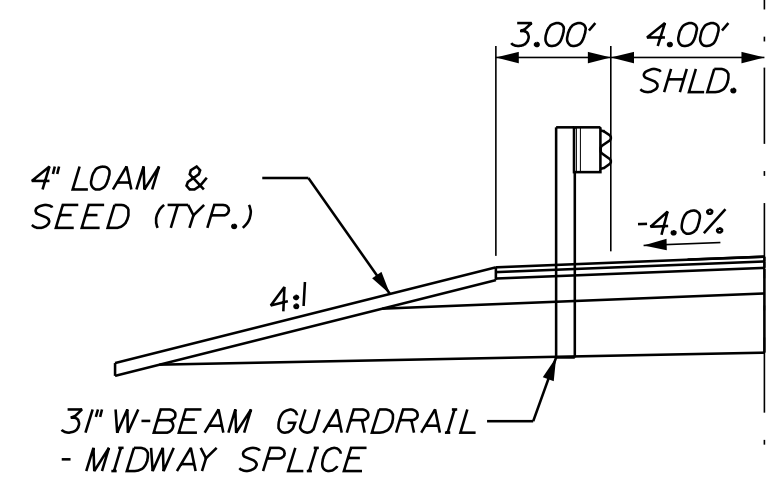
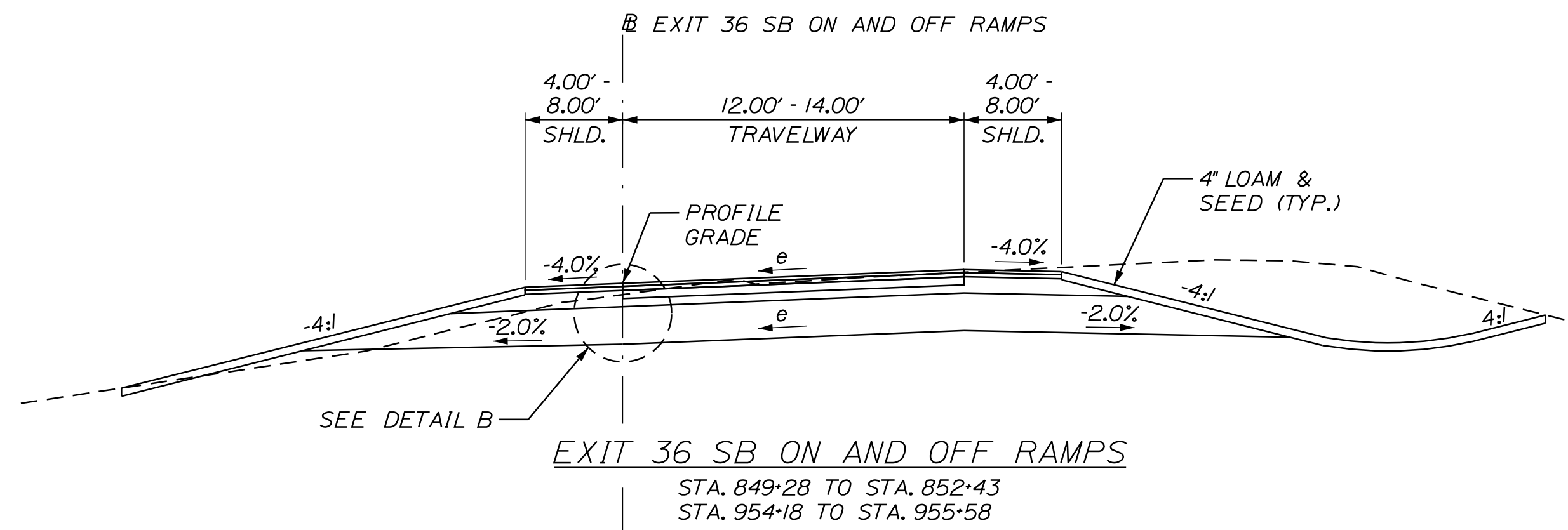
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: TS-3

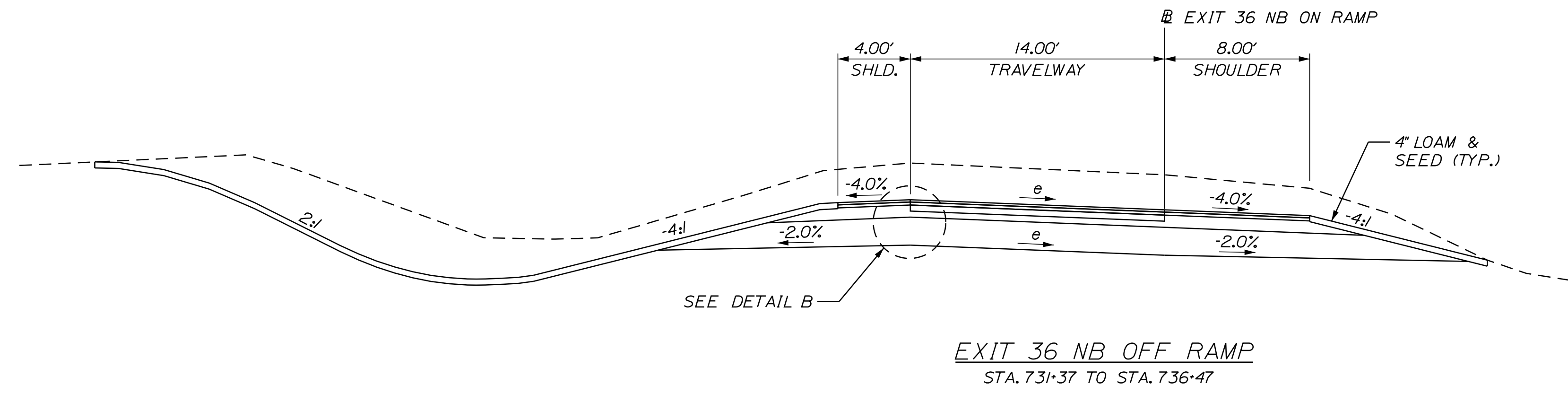
14 OF 735

Date: 10/7/2022



**GUARDRAIL DETAIL**  
STA. 849+28 TO STA. 851+45

NOTE:  
SEE EXIT 35 RAMPS FOR ADDITIONAL COMMENTS



**EXIT 36 NB OFF RAMP**  
STA. 731+37 TO STA. 736+47

Filename: ...:\00\HIGHWAY\MSTA\...\_Typ-xx.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

TYPICAL SECTIONS 4

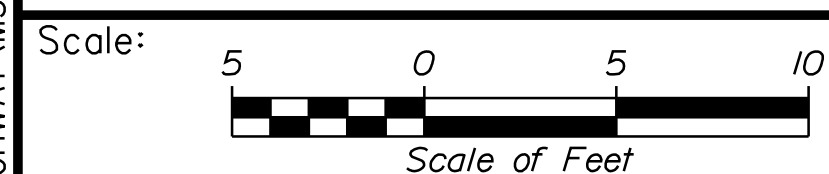
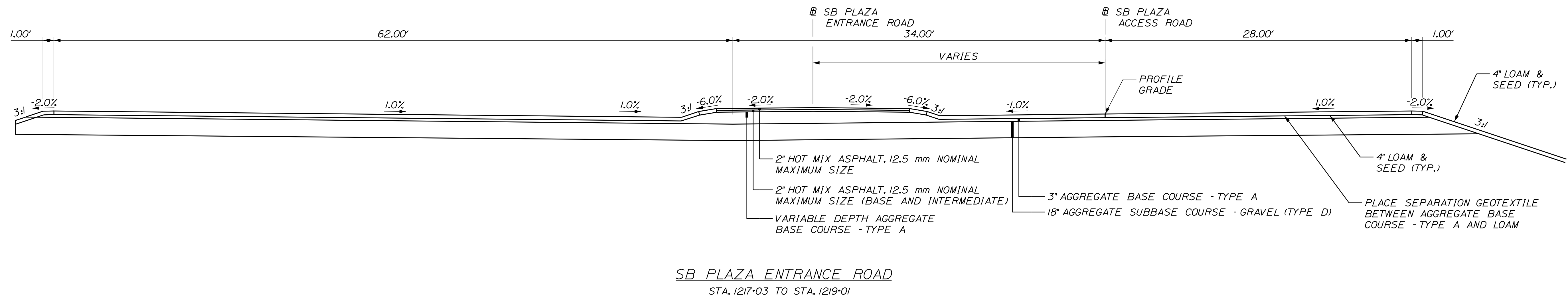
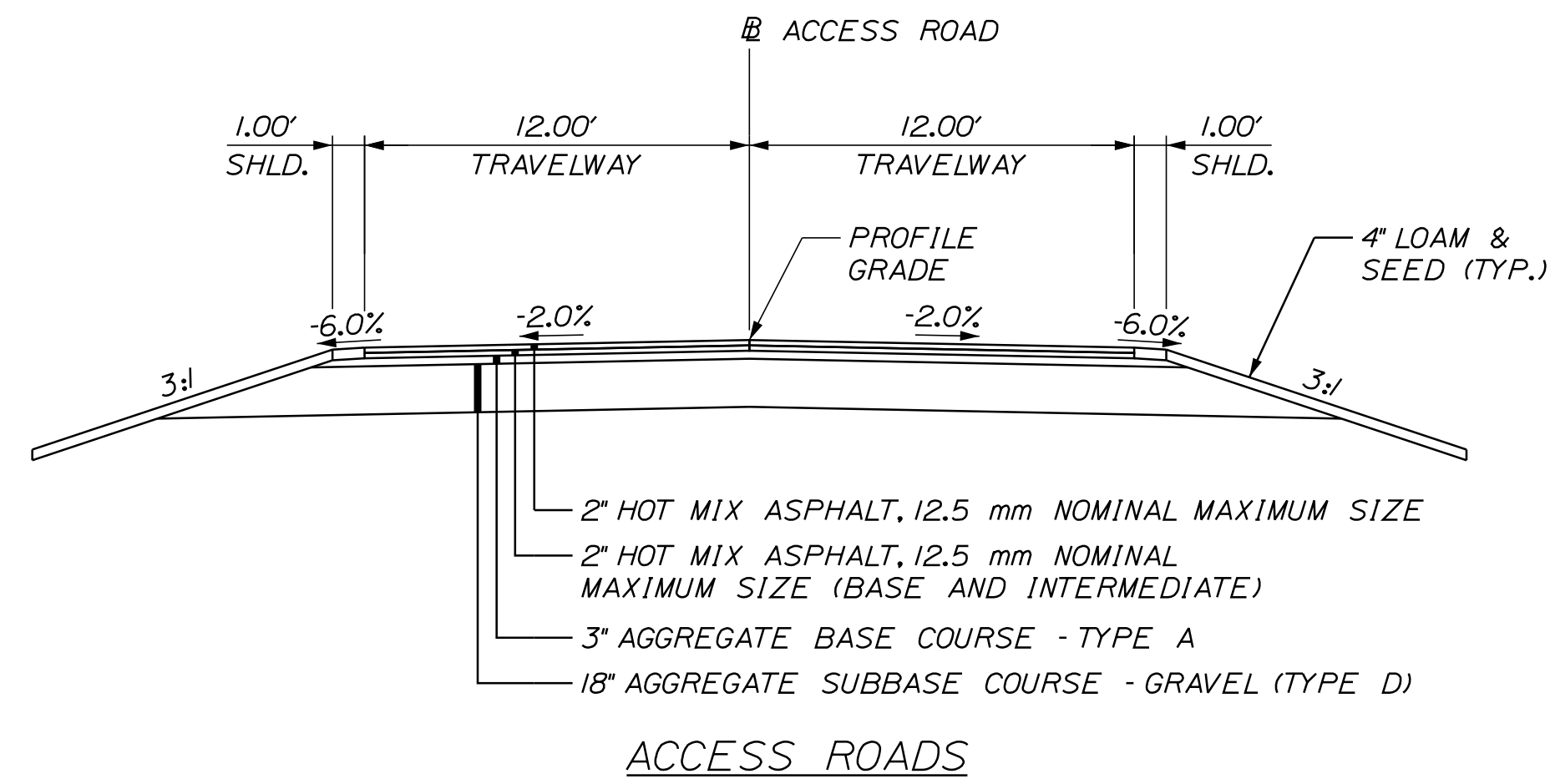
SHEET NUMBER: TS-4

CONTRACT: 2022.07

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Date: 10/17/2022

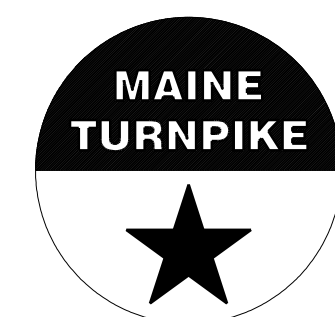
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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

TYPICAL SECTIONS 5

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

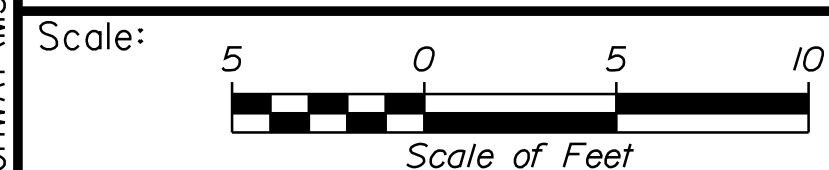
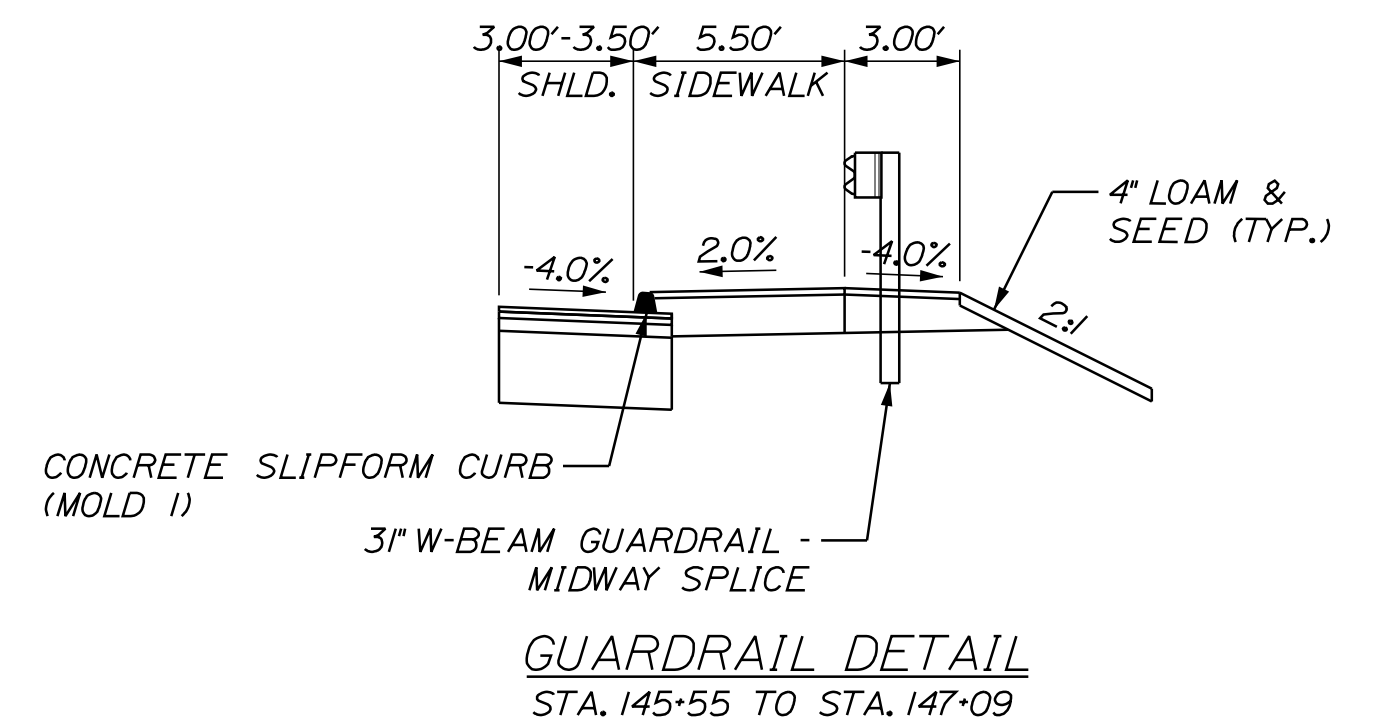
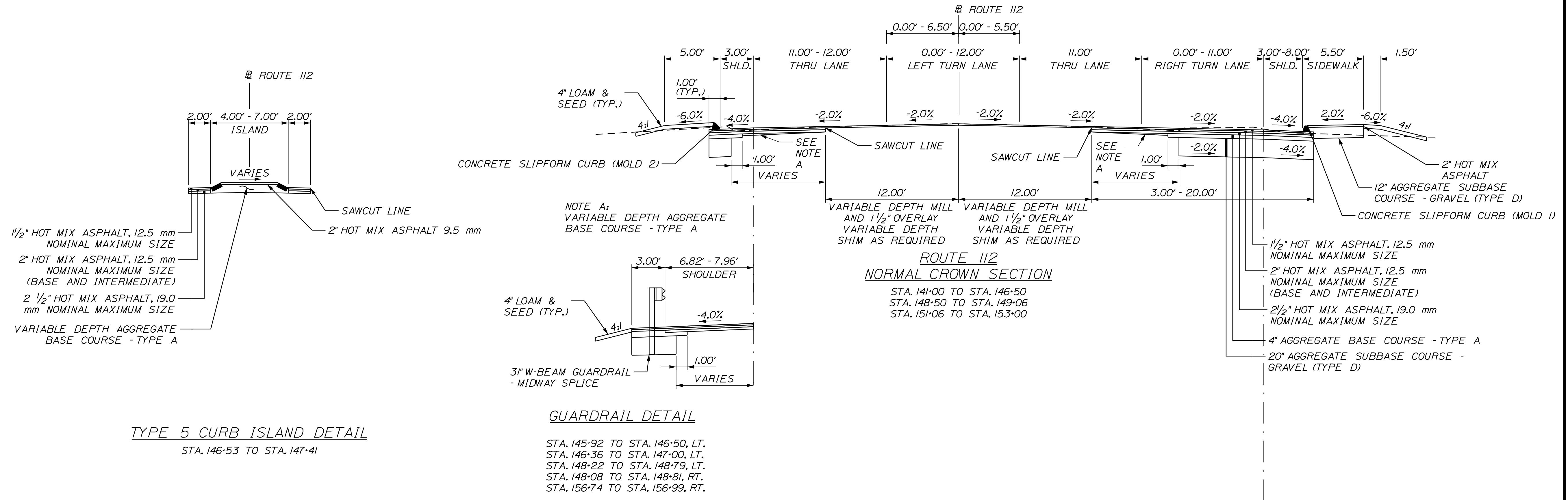
SHEET NUMBER: TS-5

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Date: 10/17/2022

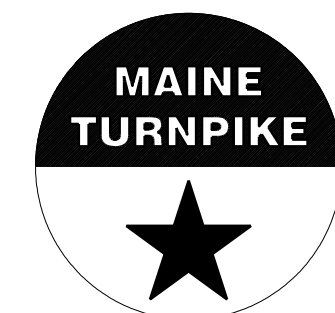
Filename: ...00\HIGHWAY\MSTA\...\_Typ-xx.dgn



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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

TYPICAL SECTIONS 6

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

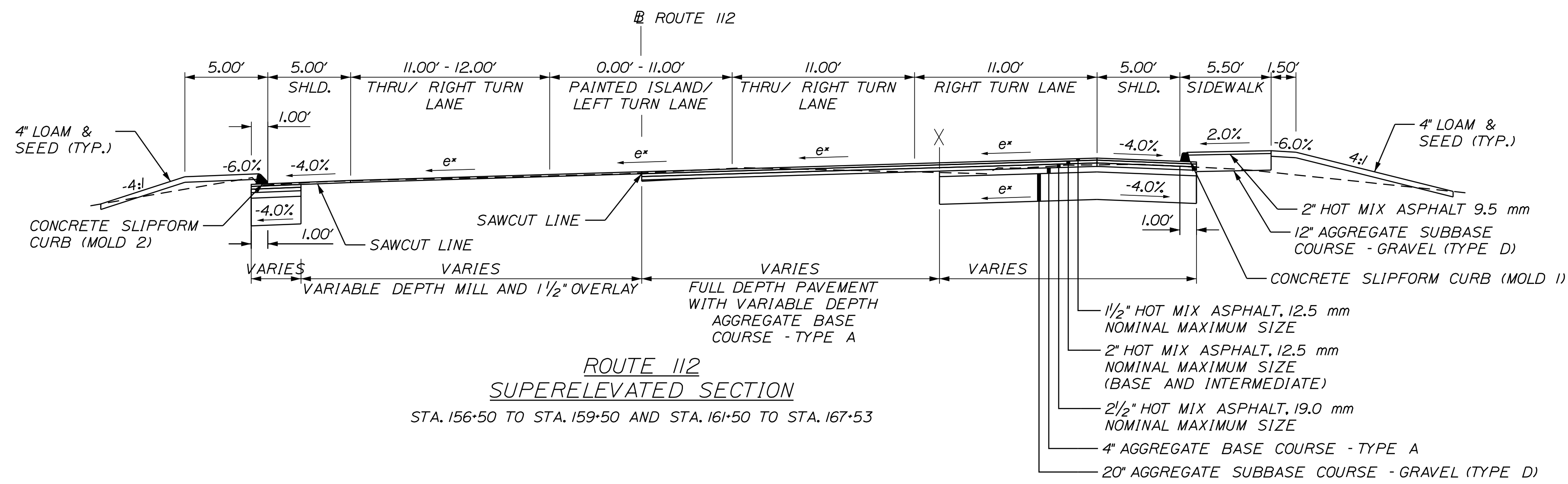
CONTRACT: 2022.07

SHEET NUMBER: TS-6

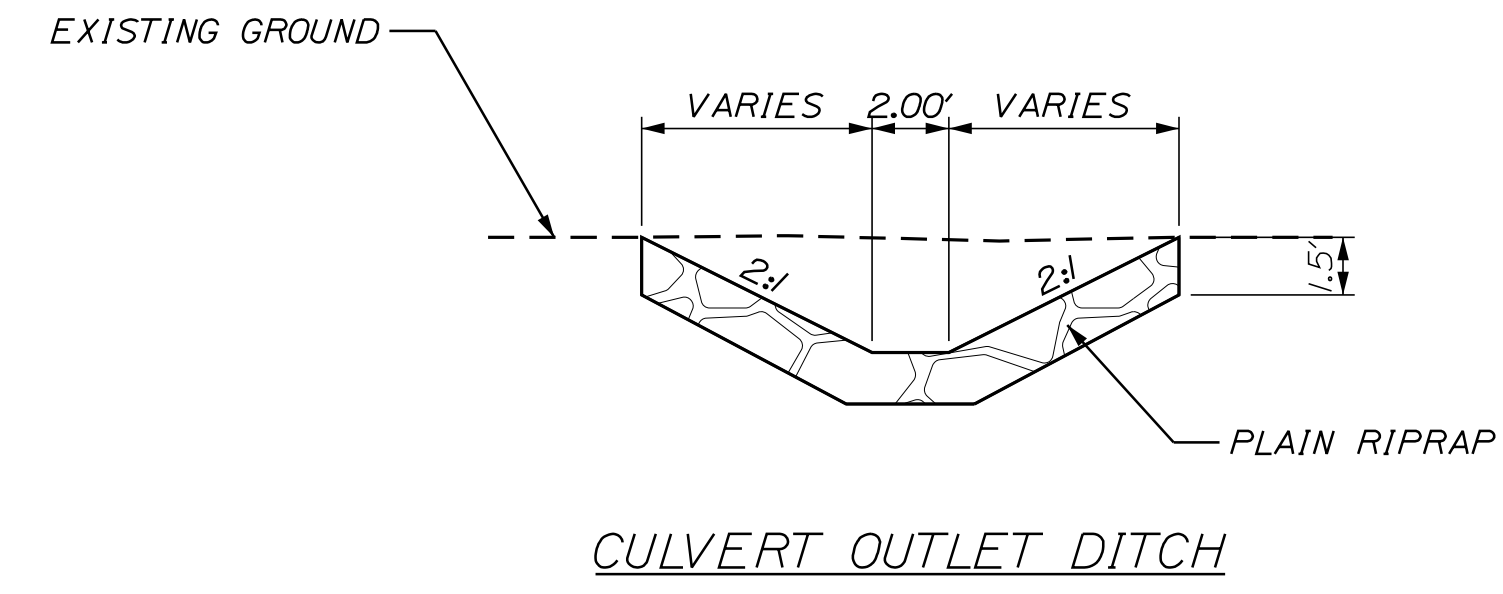
17 OF 735

Date: 10/17/2022

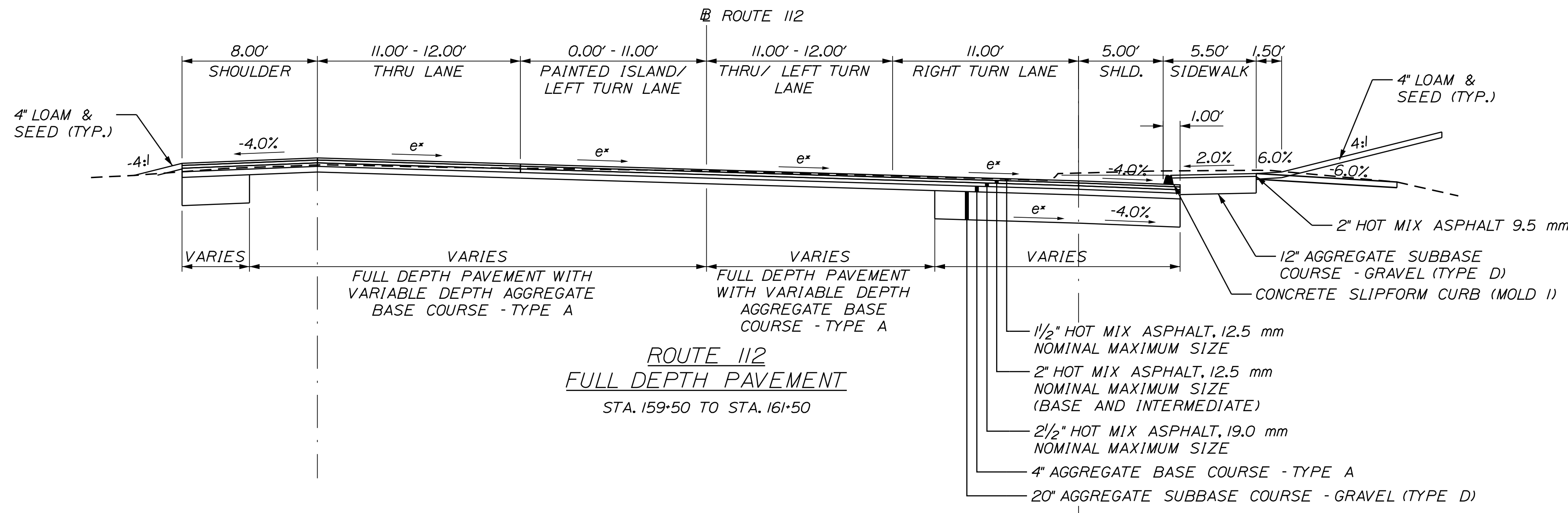
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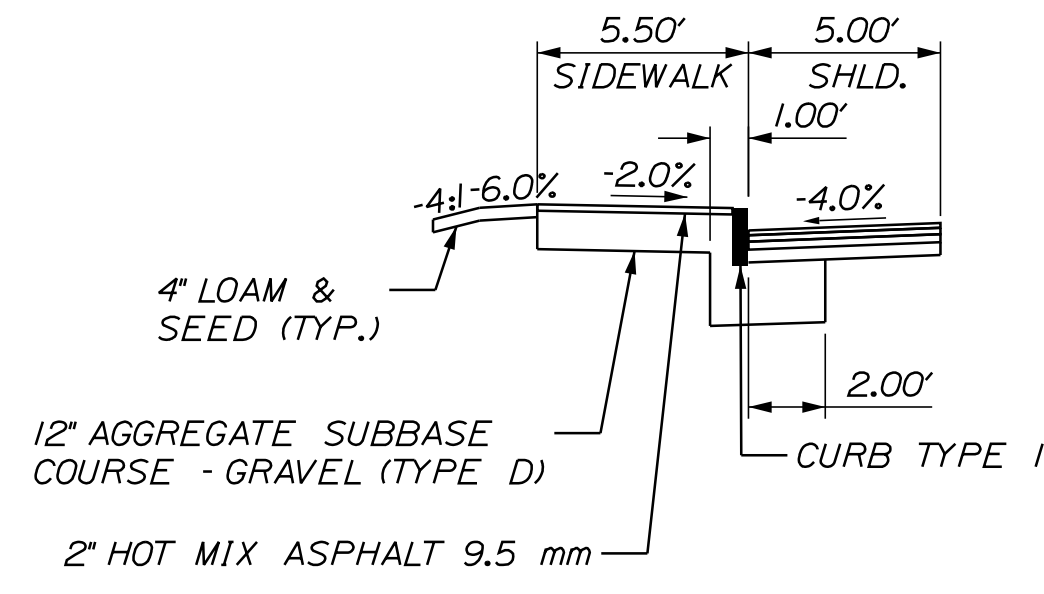
**ROUTE 112  
SUPERELEVATED SECTION**  
STA. 156+50 TO STA. 159+50 AND STA. 161+50 TO STA. 167+53



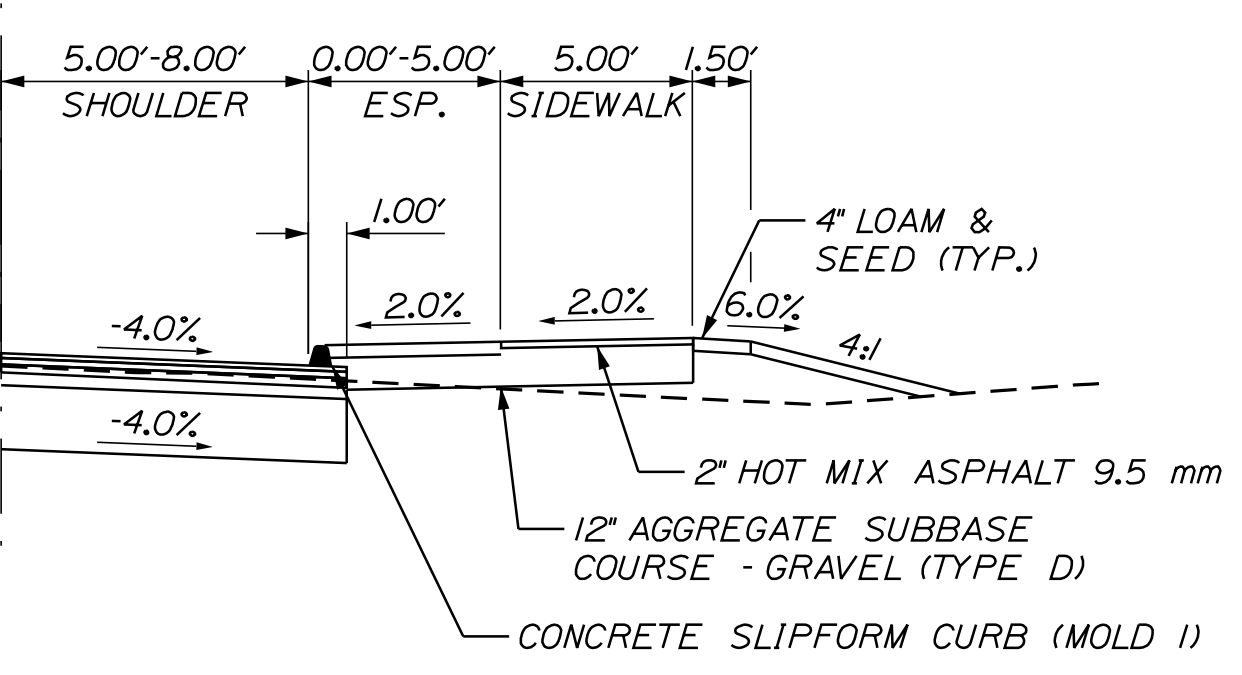
**CULVERT OUTLET DITCH**



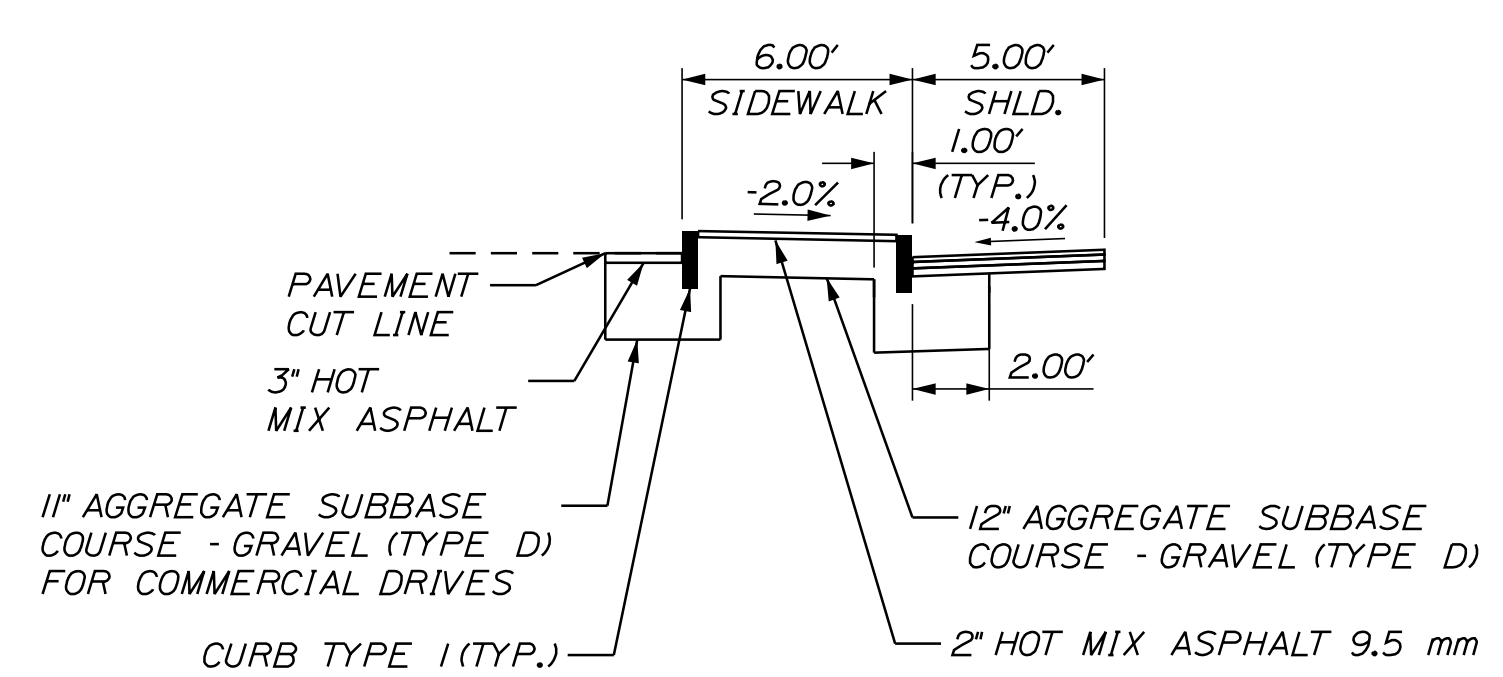
**ROUTE 112  
FULL DEPTH PAVEMENT**  
STA. 159+50 TO STA. 161+50



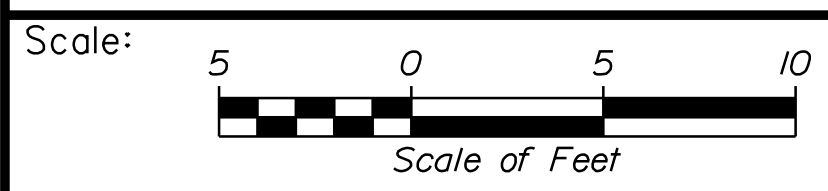
**TYPE 1 CURB DETAIL 2**  
STA. 167+06 TO STA. 167+53



**ROUTE 112  
SIDEWALK WITH ESPLANADE**



**TYPE 1 CURB DETAIL 1**  
STA. 165+80 TO STA. 166+49



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

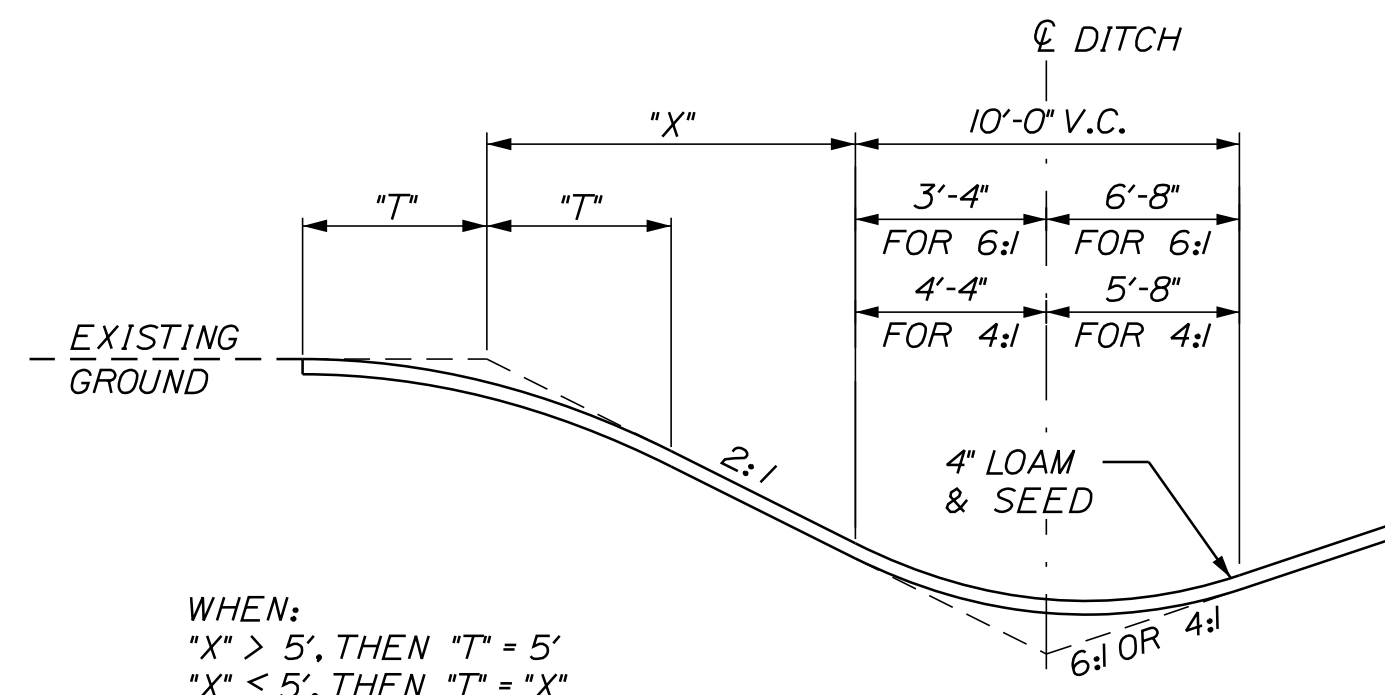
TYPICAL SECTIONS 7

SHEET NUMBER: TS-7

CONTRACT: 2022.07

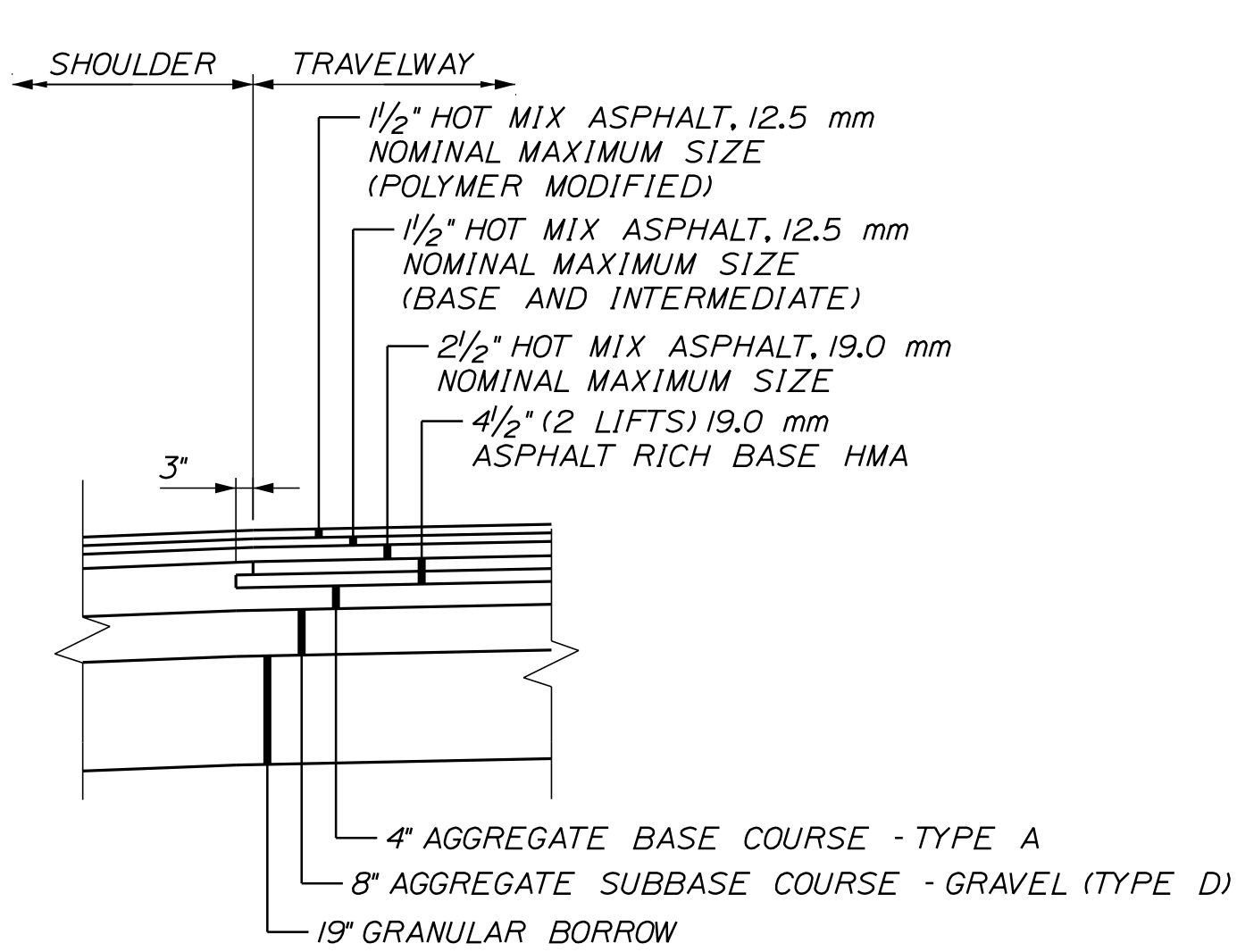
18 OF 735

Date: 10/17/2022

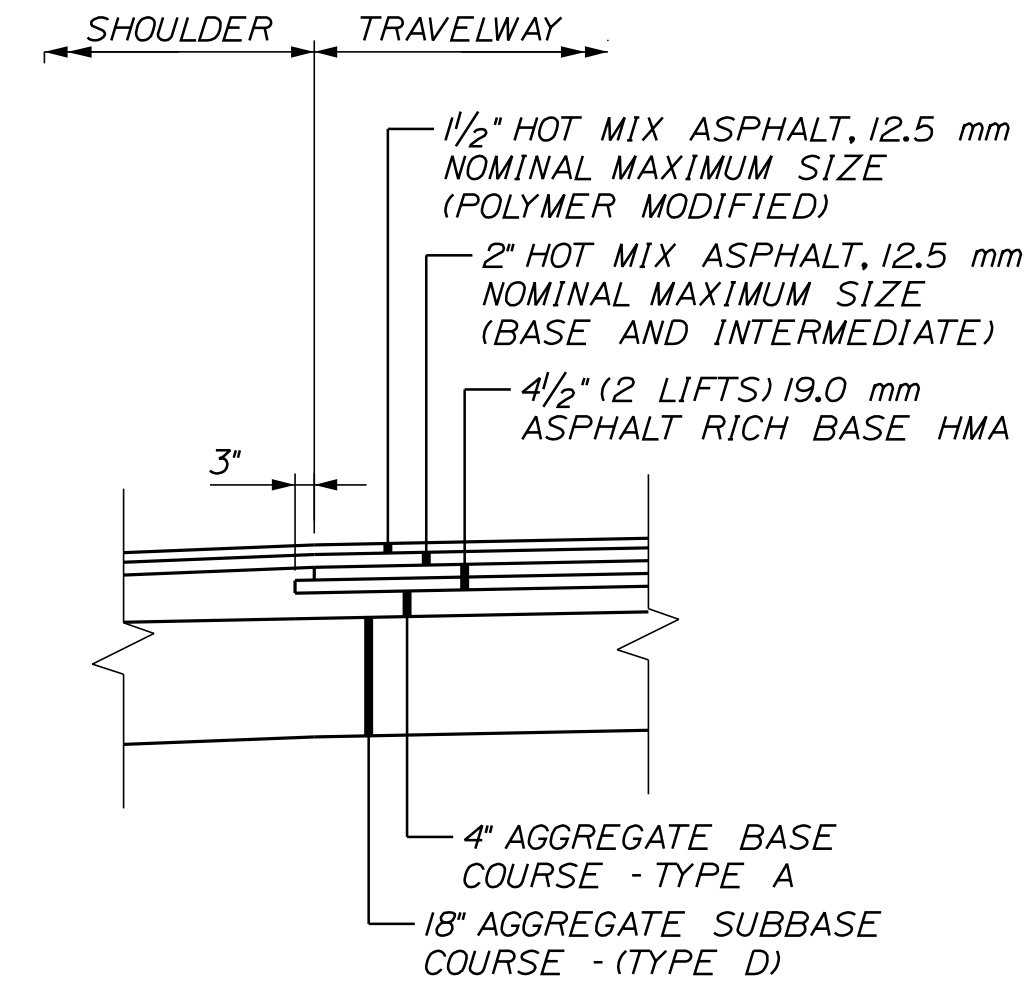


WHEN:  
 "X" > 5', THEN "T" = 5'  
 "X" ≤ 5', THEN "T" = "X"  
 THIS FORMULA MAY BE MODIFIED IN THE FIELD  
 BY THE RESIDENT TO AVOID PROPERTY DAMAGE.

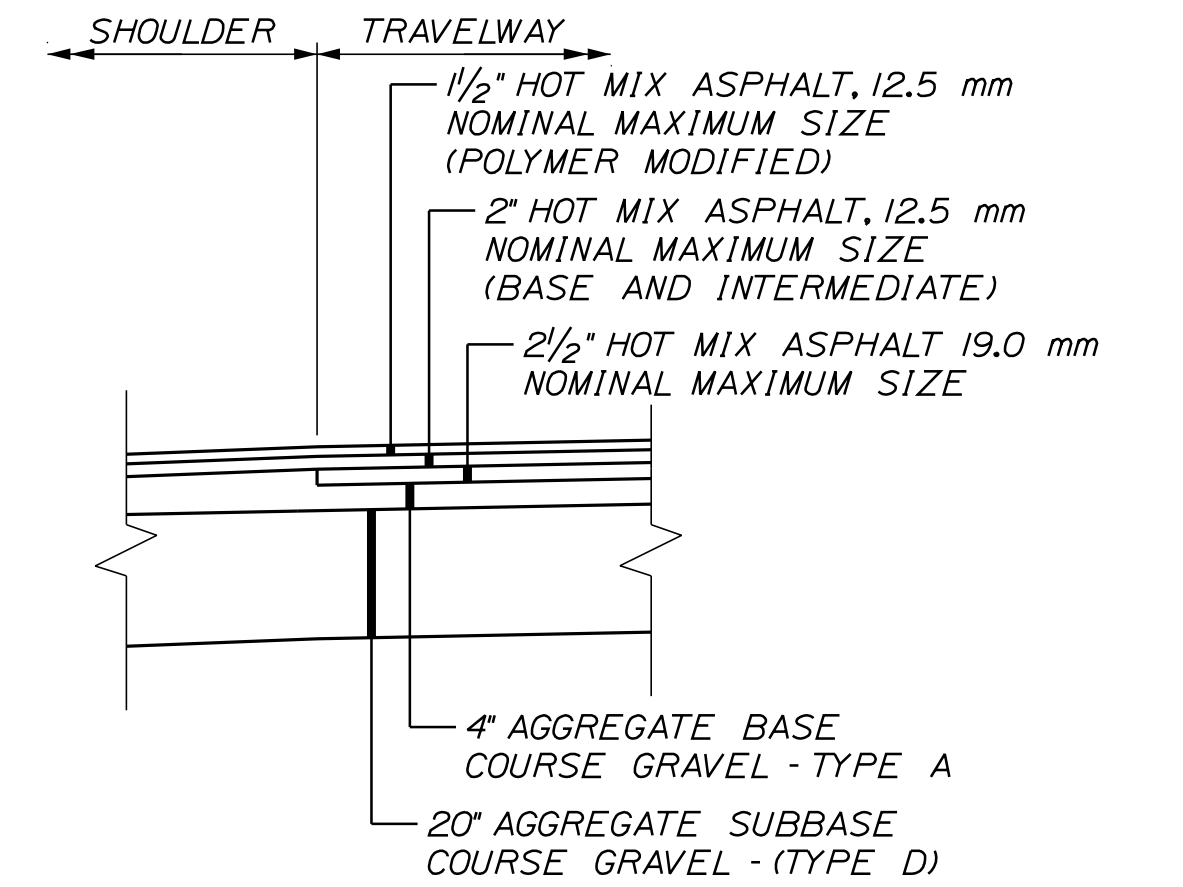
**BACKSLOPE ROUNDING DETAIL**



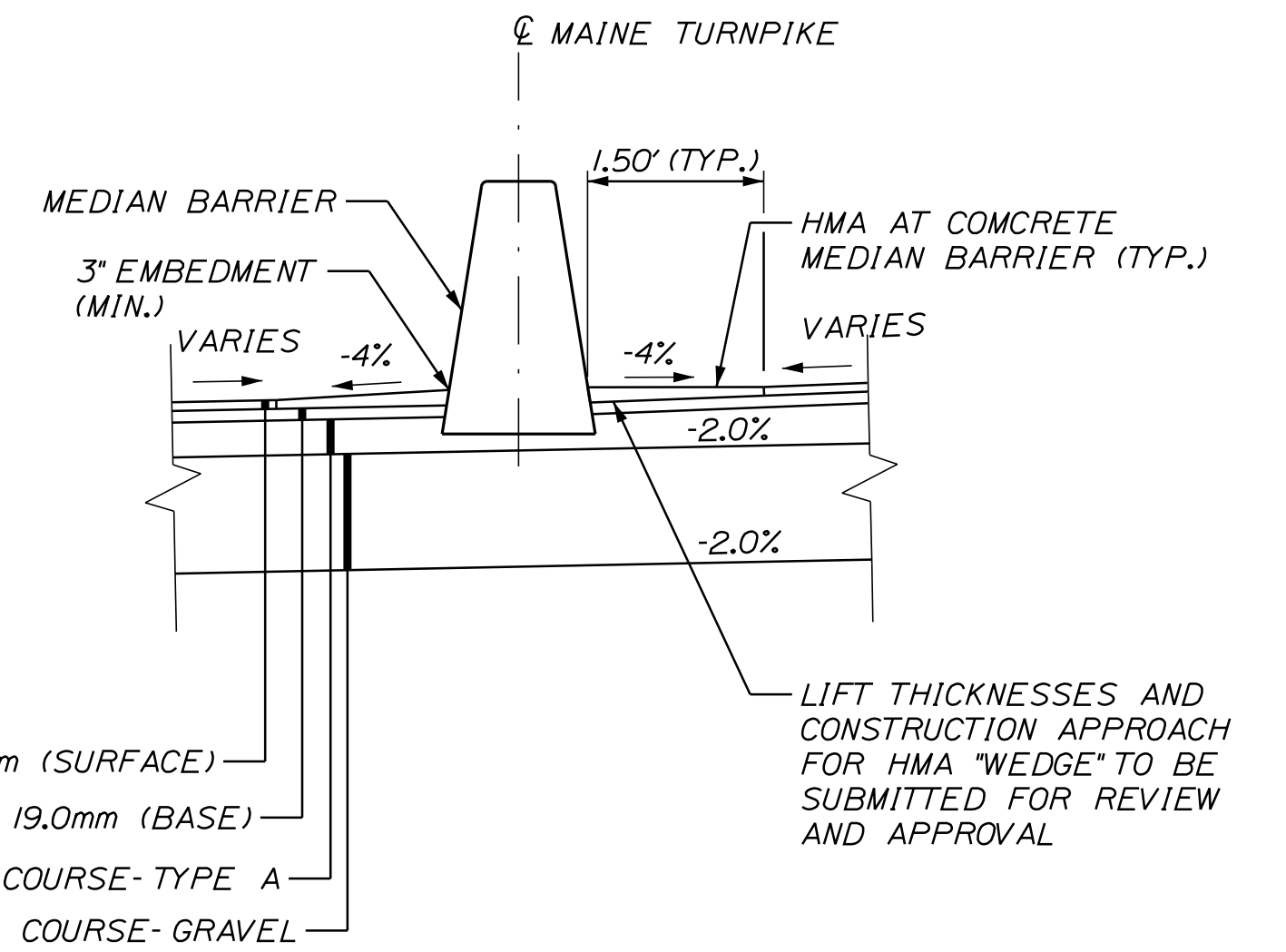
**DETAIL A - MAINLINE**  
N.T.S.



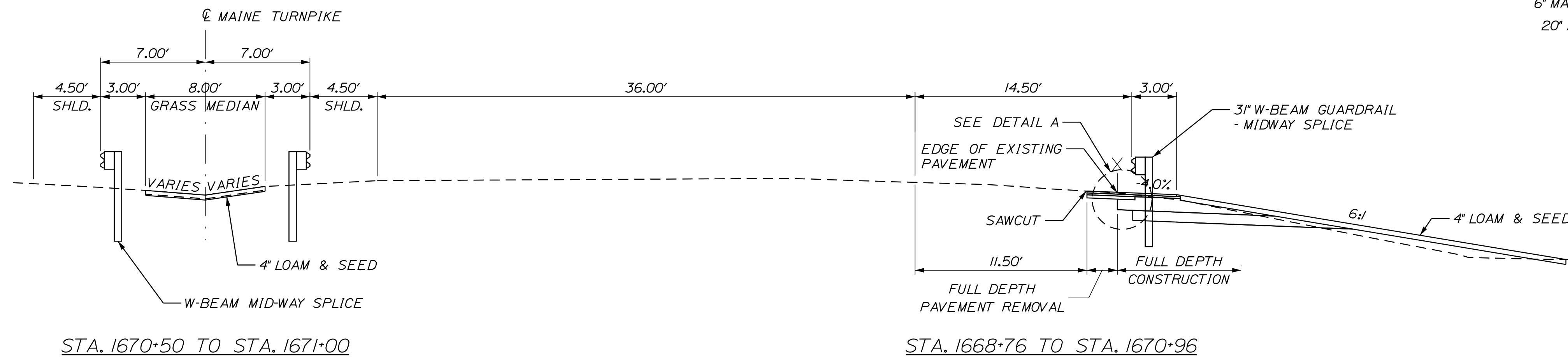
**DETAIL B - C-D ROADWAY AND EXIT 36 RAMPS**  
N.T.S.



**DETAIL C - EXIT 35 RAMPS**  
N.T.S.

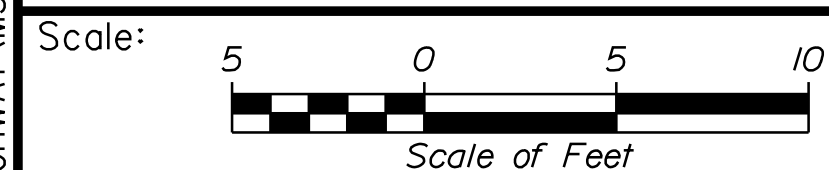


**MEDIAN BARRIER DETAIL**  
N.T.S.



**MEDIAN AND NORTHBOUND GUARDRAIL INSTALLATION**

Filename: ...000\HIGHWAY\MSTA...\_Typ-xx.dgn



No.	Revision	By	Date

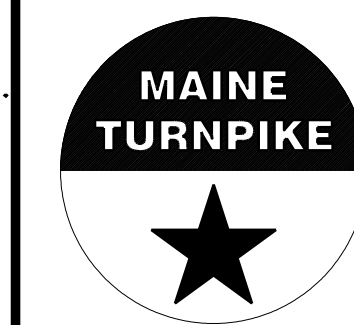
Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)**

**TYPICAL SECTIONS 8**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: TS-8

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Date: 10/17/2022

EXIT 35 NB OFF RAMP SUPERELEVATION TABLE

Table with 4 columns: LEFT SHOULDER, LEFT TRAVELWAY, STATION, RIGHT SHOULDER. Includes match turnpike, full super, and remove crown sections.

\*MAINE TURNPIKE BASELINE
\*\*EXIT 35 NB COMBINED PLAZA BASELINE

EXIT 35 SB ON RAMP SUPERELEVATION TABLE

Table with 4 columns: LEFT SHOULDER, STATION, RIGHT TRAVELWAY, RIGHT SHOULDER. Includes match turnpike, full super, tie into plaza slab, and remove crown sections.

EXIT 35 SB OFF RAMP SUPERELEVATION TABLE

Table with 5 columns: LEFT SHOULDER, LEFT TRAVELWAY, STATION, RIGHT TRAVELWAY, RIGHT SHOULDER. Includes match route 112, full super, match toll slab, and match C-D roadway sections.

\*C-D ROADWAY BASELINE

EXIT 35 NB ON RAMP SUPERELEVATION TABLE

Table with 4 columns: LEFT SHOULDER, LEFT TRAVELWAY, STATION, RIGHT SHOULDER. Includes match combined ramp and full super sections.

\*MAINE TURNPIKE BASELINE

EXIT 36 NB OFF RAMP SUPERELEVATION TABLE

Table with 4 columns: LEFT SHOULDER, LEFT TRAVELWAY, STATION, RIGHT SHOULDER. Includes match turnpike, remove crown, and full super sections.

\*MAINE TURNPIKE BASELINE

EXIT 36 SB OFF RAMP SUPERELEVATION TABLE

Table with 4 columns: LEFT SHOULDER, STATION, RIGHT TRAVELWAY, RIGHT SHOULDER. Includes match existing and full super sections.

\*C-D ROADWAY BASELINE

EXIT 36 SB ON RAMP SUPERELEVATION TABLE

Table with 4 columns: LEFT SHOULDER, STATION, RIGHT TRAVELWAY, RIGHT SHOULDER. Includes match C-D roadway, full super, and match existing sections.

\*C-D ROADWAY BASELINE

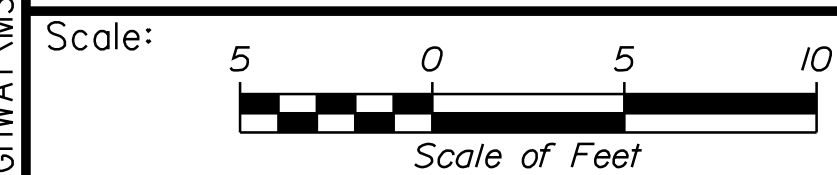
SB C-D ROADWAY SUPERELEVATION TABLE

Table with 5 columns: LEFT SHOULDER, LEFT TRAVELWAY, STATION, RIGHT TRAVELWAY, RIGHT SHOULDER. Includes match turnpike, full super, normal crown, and remove crown sections.

EXIT 35 NB COMBINED RAMP SUPERELEVATION TABLE

Table with 4 columns: LEFT SHOULDER, LEFT TRAVELWAY, STATION, RIGHT SHOULDER. Includes match exit 35 NB on/off ramp, full super, tie into plaza slab, and remove crown sections.

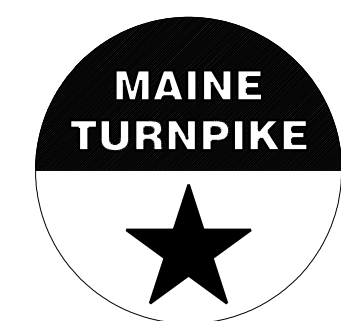
Filename: ...:\00\HIGHWAY\MSTAL...\_Typ-xx.dgn



Designed by:



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THE GOLD STAR MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS SACO (EXITS 35 & 36)

SUPERELEVATION TABLES

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

Table with columns: No., Revision, By, Date, Designed, Checked, In Charge of, Date.

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: TS-9

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ROUTE 112  
SUPERELEVATION TABLE

LEFT SHOULDER	LEFT TRAVELWAY	STATION	RIGHT TRAVELWAY	RIGHT SHOULDER
MATCH EXISTING				
-4.5%	-3.2%	141+00	-2.0%	-4.0%
-4.0%	-2.0%	141+50	-2.0%	-4.0%
NORMAL CROWN				
-4.0%	-2.0%	153+00	-2.0%	-4.0%
MATCH EXISTING				
-4.3%	3.4%	155+75	-	-
-4.0%	3.0%	155+83	-	-
-4.0%	3.0%	156+00	-4.8%	-3.8%
-4.0%	3.0%	156+50	-3.0%	-4.0%
FULL SUPER				
-4.0%	3.0%	160+25	-3.0%	-4.0%
-4.0%	2.5%	160+50	-2.5%	-4.0%
-4.0%	1.4%	161+00	-1.4%	-4.0%
-4.0%	0.3%	161+50	-0.3%	-4.0%
-4.0%	0.0%	161+64	0.0%	-4.0%
-4.0%	-0.8%	162+00	0.8%	-4.0%
-4.0%	-1.9%	162+50	1.9%	-4.0%
-4.0%	-2.9%	163+00	2.9%	-4.0%
-4.0%	-3.0%	163+03	3.0%	-4.0%
FULL SUPER				
-4.0%	-3.0%	166+98	3.0%	-4.0%
-4.0%	-3.0%	167+00	2.9%	-4.0%
-4.0%	-3.0%	167+25	1.8%	-4.0%
-3.3%	-3.0%	167+40	1.1%	-4.0%
-2.8%	-3.0%	167+50	0.7%	-3.6%
-2.0%	-3.0%	167+65	0.0%	-3.0%
-1.5%	-3.0%	167+75	-0.5%	-2.6%
-1.5%	-3.0%	167+98	-1.5%	-1.7%
-1.5%	-2.9%	168+00	-1.6%	-1.6%
MATCH EXISTING				

PROFILE B BASELINE  
SUPERELEVATION TABLE

LEFT SHOULDER	LEFT TRAVELWAY	STATION	RIGHT TRAVELWAY	RIGHT SHOULDER
MATCH ROUTE 112				
-5.0%	-	0+50	3.3%	-
-4.3%	-	0+90	4.1%	-
-4.2%	-	1+00	3.8%	-
-4.0%	-	1+50	1.0%	-
-4.0%	-	2+00	-1.5%	-
-4.0%	-	2+04	-1.5%	-
MATCH EXIT 35 SB OFF RAMP				

PROFILE A BASELINE  
SUPERELEVATION TABLE

LEFT SHOULDER	LEFT TRAVELWAY	STATION
MATCH ROUTE 112		
4.0%	2.0%	6+25
REMOVE CROWN		
4.0%	2.0%	6+60
4.0%	4.0%	7+00
5.0%	5.0%	7+44
5.0%	5.0%	7+48
MATCH EXIT 35 SB ON RAMP		

SB PLAZA ENTRANCE ROAD  
SUPERELEVATION TABLE

LEFT TRAVELWAY	STATION	RIGHT TRAVELWAY
MATCH ROUTE 112		
1.5%	44+00	-1.5%
1.5%	44+31	-1.5%
0.5%	44+50	-1.5%
-1.5%	44+87	-1.5%
-2.0%	44+97	-2.0%
NORMAL CROWN		
-2.0%	48+16	-2.0%
MATCH SB PLAZA ACCESS ROAD		

HOTEL AND GYM ACCESS ROAD  
SUPERELEVATION TABLE

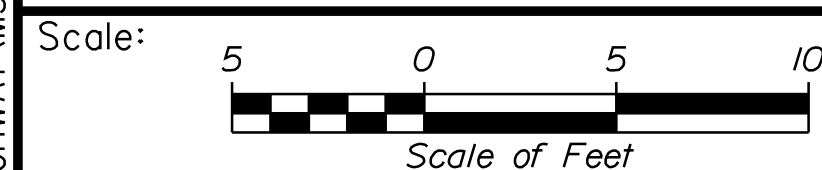
LEFT TRAVELWAY	STATION	RIGHT TRAVELWAY
MATCH NB PLAZA ACCESS ROAD		
0.0%	23+91	-0.1%
-0.6%	24+00	-0.7%
-2.0%	24+21	-2.0%
NORMAL CROWN		
-2.0%	29+32	-2.0%
-2.0%	29+50	-0.8%
-2.0%	29+58	-0.2%
-0.9%	29+75	0.9%
MATCH ROUTE 112		

NB PLAZA ACCESS ROAD  
SUPERELEVATION TABLE

LEFT TRAVELWAY	STATION	RIGHT TRAVELWAY
MATCH EXISTING		
-2.0%	55+61	2.0%
REMOVE CROWN		
-2.0%	57+00	2.0%
0.4%	57+50	-3.2%
MATCH EXISTING		

Date:10/17/2022

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No.	Revision	By	Date

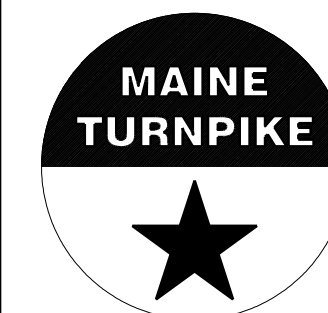
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

SUPERELEVATION TABLES

SHEET NUMBER: TS-10

CONTRACT:2022.07

21 OF 735

GENERAL MAINTENANCE OF TRAFFIC NOTES:

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 2014 EDITION FOR HIGHWAY AND BRIDGES, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
2. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION. NOTE THERE IS A 2009 EDITION OF MUTCD.
3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL. DURING CONSTRUCTION, SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
4. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING PAVEMENT MARKINGS.
5. TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.78 - TEMPORARY PAVEMENT MARKING LINES, YELLOW OR WHITE. THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-STRIPE FADED TEMPORARY PAVEMENT MARKINGS AS DIRECTED BY THE RESIDENT, OR AT LEAST ONCE PER CONSTRUCTION SEASON.
6. TEMPORARY PAVEMENT MARKING LINES SHALL BE 6" WIDE ON MAINLINE AND RAMPS AND 4" ON ROUTE 112.
7. TEMPORARY PAINTED PAVEMENT MARKINGS SHALL NOT BE INSTALLED ON NEW PAVEMENT; TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.
8. 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 OR ITEM 527.342 - WORK ZONE CRASH CUSHION - TL-2.
9. 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.
10. REMOVAL OF TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE SHALL BE DONE IN SUCH A MANNER TO REMOVE AS LITTLE PAVEMENT AS POSSIBLE.
11. EXIT 36 SOUTHBOUND RAMPS MAY BE IN DIFFERENT SUB PHASES AT THE SAME TIME.
12. NORTHBOUND AND SOUTHBOUND MAY BE IN DIFFERENT PHASES.
13. IF EXPLOSIVES ARE USED FOR ROCK EXCAVATION, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF SPECIFICATION 105.2.7.

MOT SIGN NOTES

1. ALL PROPOSED CONSTRUCTION SIGNS ON MAINLINE AND I-195 WILL BE PLACED ON BOTH SIDES OF THE ROAD UNLESS OTHERWISE 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 OR SIGN POSTS.
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. SPEED LIMIT, STOP, EXIT AND YIELD SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT TO THE BOTTOM OF SIGN.
8. "TRUCKS ENTERING" SIGN SHALL ALSO BE USED AT LOCATIONS WHERE TRUCKS ENTER THE WORK ZONE FROM THE TRAVEL LANE.
9. TRUCK MOUNTED ATTENUATOR SHALL NOT BE LOCATED WITHIN THE BUFFER ZONE.
10. 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.
11. 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.
12. IF EXPLOSIVES ARE USED FOR ROCK EXCAVATION, CONSTRUCTION SIGNS SHALL BE INSTALLED PER MUTCD DETAIL TA-2 FOR BLASTING ZONES WHERE NEEDED.

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)
2. 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.
3. 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

- TSBW = TEMPORARY SINGLE BROKEN WHITE LINE  
 TSSW = TEMPORARY SINGLE SOLID WHITE LINE  
 TSSY = TEMPORARY SINGLE SOLID YELLOW LINE  
 TSDW = TEMPORARY SINGLE DOTTED WHITE LINE  
 TDYL = TEMPORARY DOUBLE YELLOW LINE

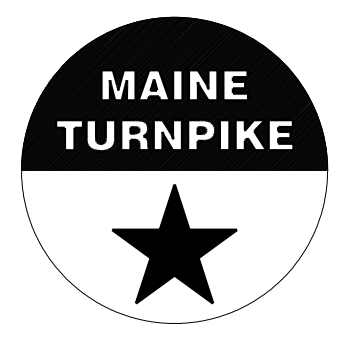
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Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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## THE GOLD STAR MEMORIAL HIGHWAY

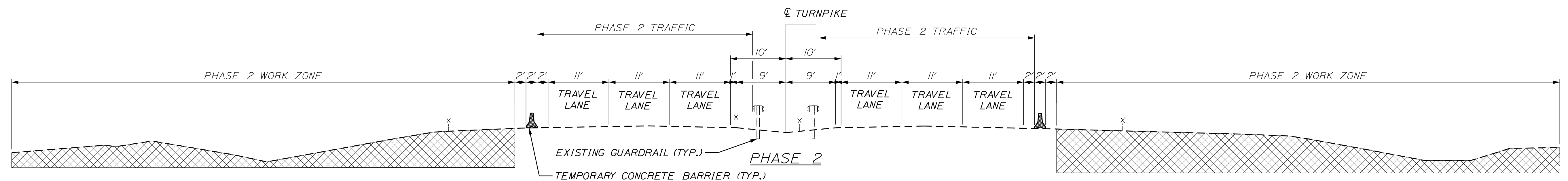
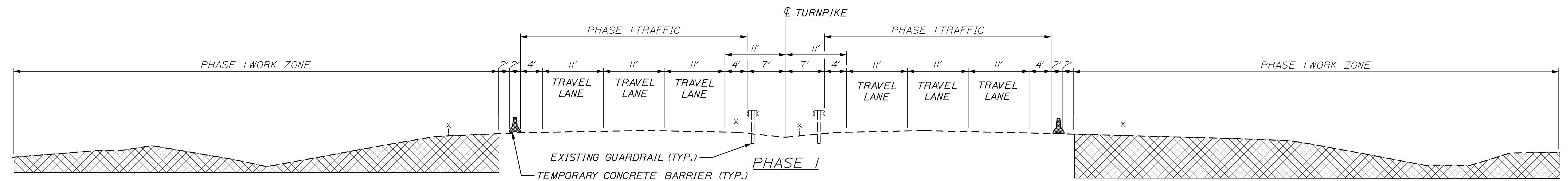
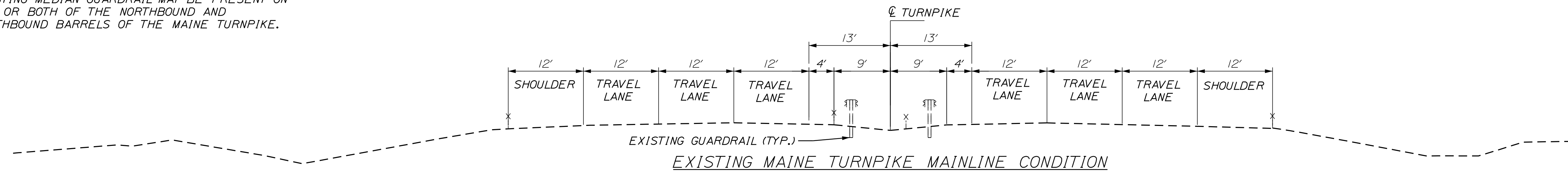
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

### INTERCHANGE IMPROVEMENTS SACO (EXITS 35 & 36) MAINTENANCE OF TRAFFIC GENERAL NOTES

SHEET NUMBER: MOT-01  
 CONTRACT: 2022.07  
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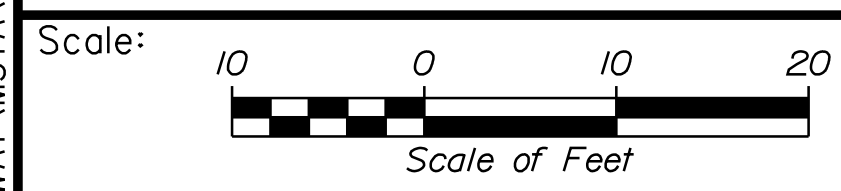
**NOTES:**

1. MTA WILL BE PLOWING SNOW OVER THE BARRIER AND INTO THE WORK AREA.
2. BETWEEN NOVEMBER 15TH AND APRIL 15TH THE INSIDE SHOULDER SHALL BE A MINIMUM OF 4'-0" AND THE OUTSIDE SHOULDER SHALL BE A MINIMUM OF 8'-0".
3. EXISTING MEDIAN GUARDRAIL MAY BE PRESENT ON ONE OR BOTH OF THE NORTHBOUND AND SOUTHBOUND BARRELS OF THE MAINE TURNPIKE.



Date: 10/17/2022

Filename: ...HIGHWAY\MSTA\MOT\_Typ\_01.dgn



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

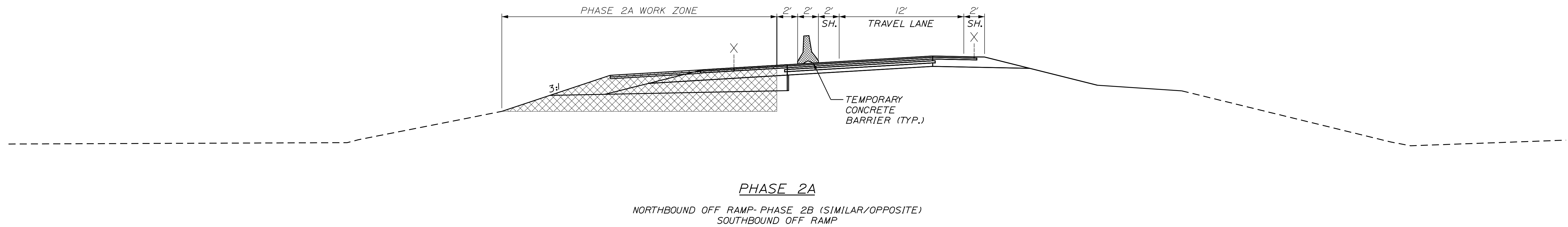
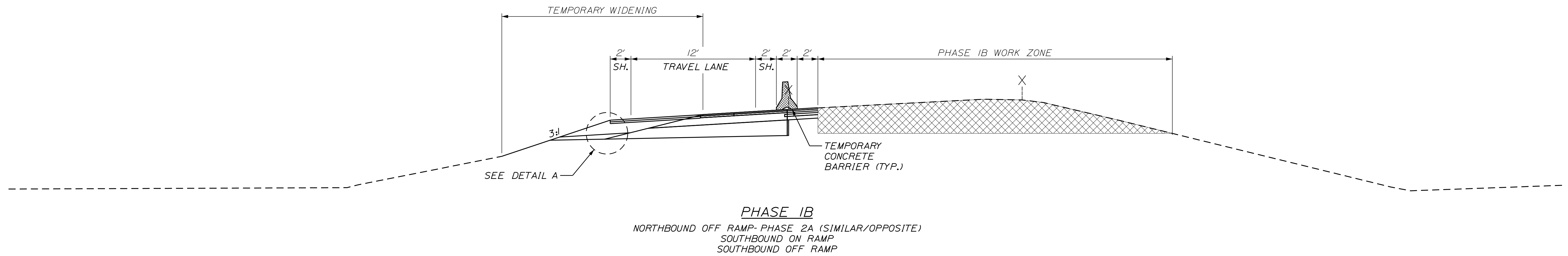
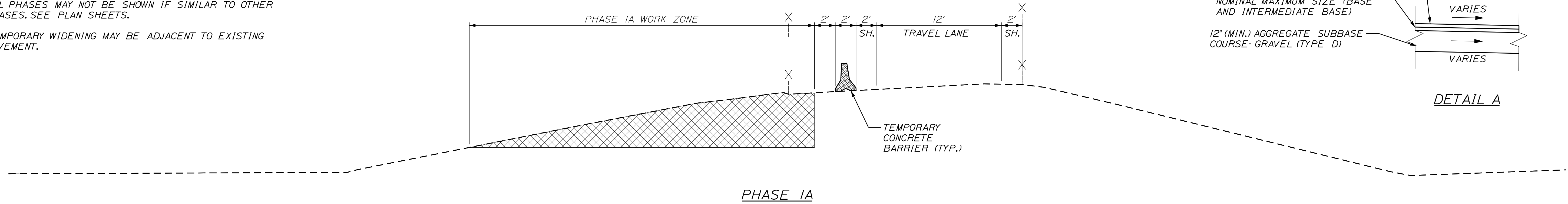
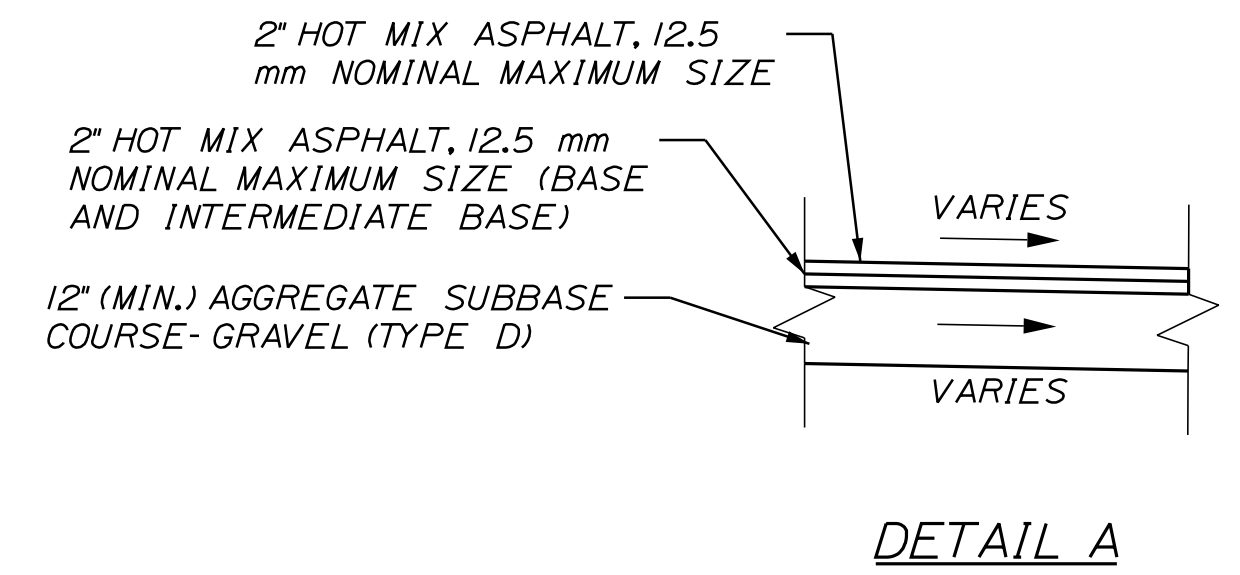
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
MAINLINE TYPICAL SECTIONS

SHEET NUMBER: MOT-02  
23 OF 735

CONTRACT: 2022.07

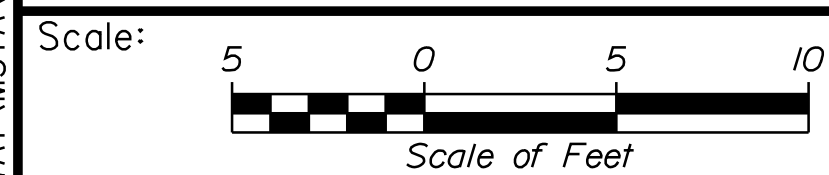
**NOTES:**

1. CONSTRUCTION PHASE AT EACH RAMP MAY BE DIFFERENT THAN TYPICAL AS NOTED BELOW.
2. ALL PHASES MAY NOT BE SHOWN IF SIMILAR TO OTHER PHASES. SEE PLAN SHEETS.
3. TEMPORARY WIDENING MAY BE ADJACENT TO EXISTING PAVEMENT.



Date: 10/17/2022

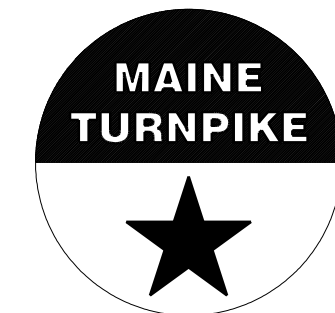
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
EXIT 36 RAMP TYPICAL SECTIONS**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

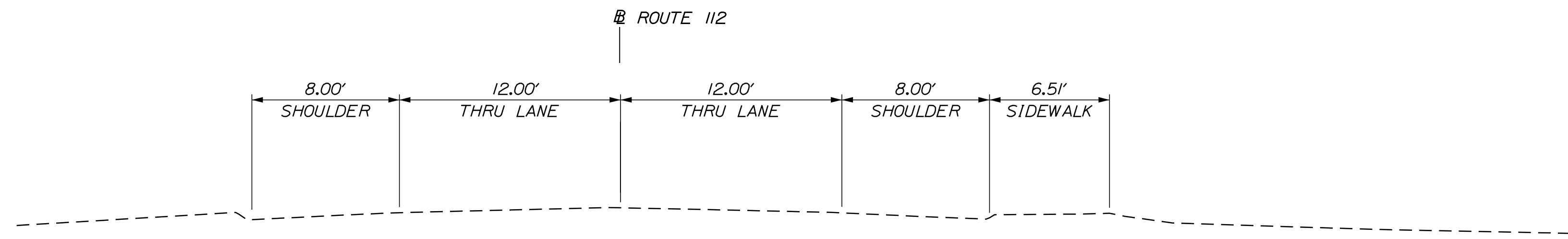
CONTRACT: 2022.07

SHEET NUMBER: MOT-03

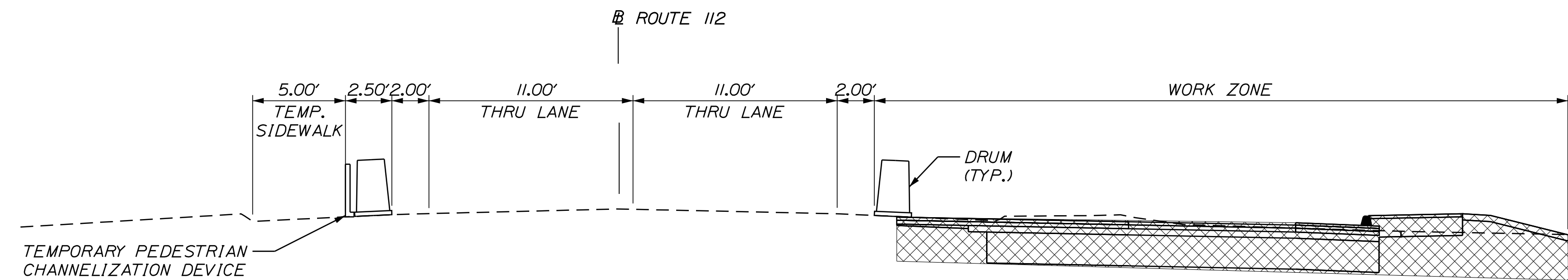
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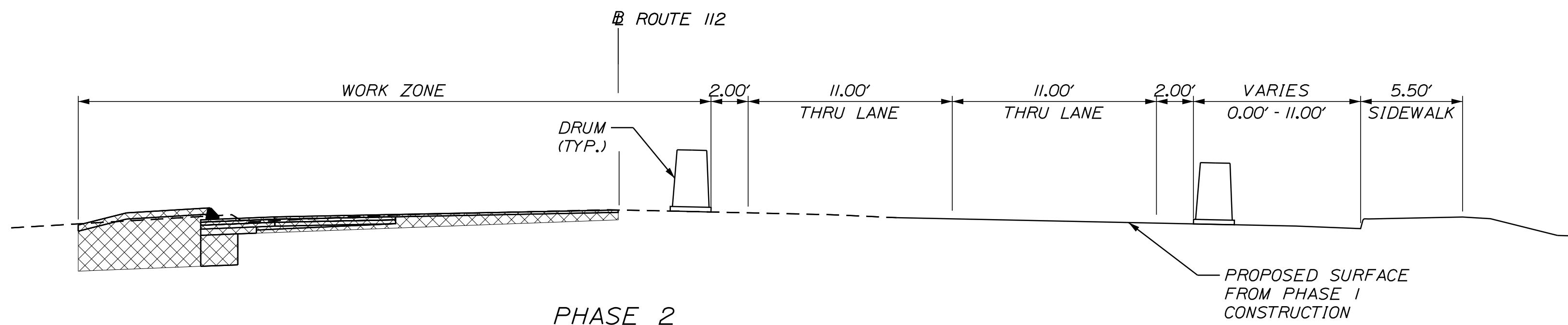
Date: 10/7/2022



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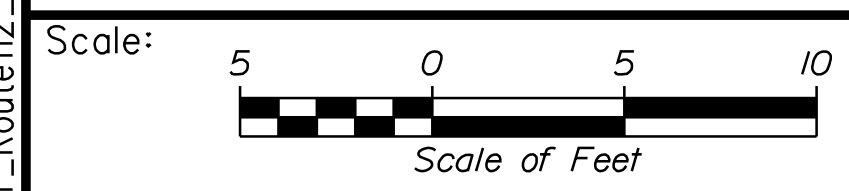


PHASE I




PHASE 2

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No.	Revision	By	Date

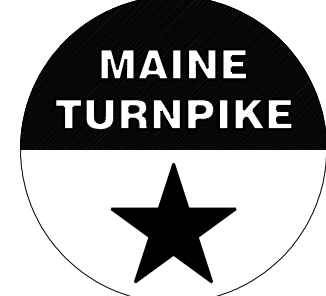
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

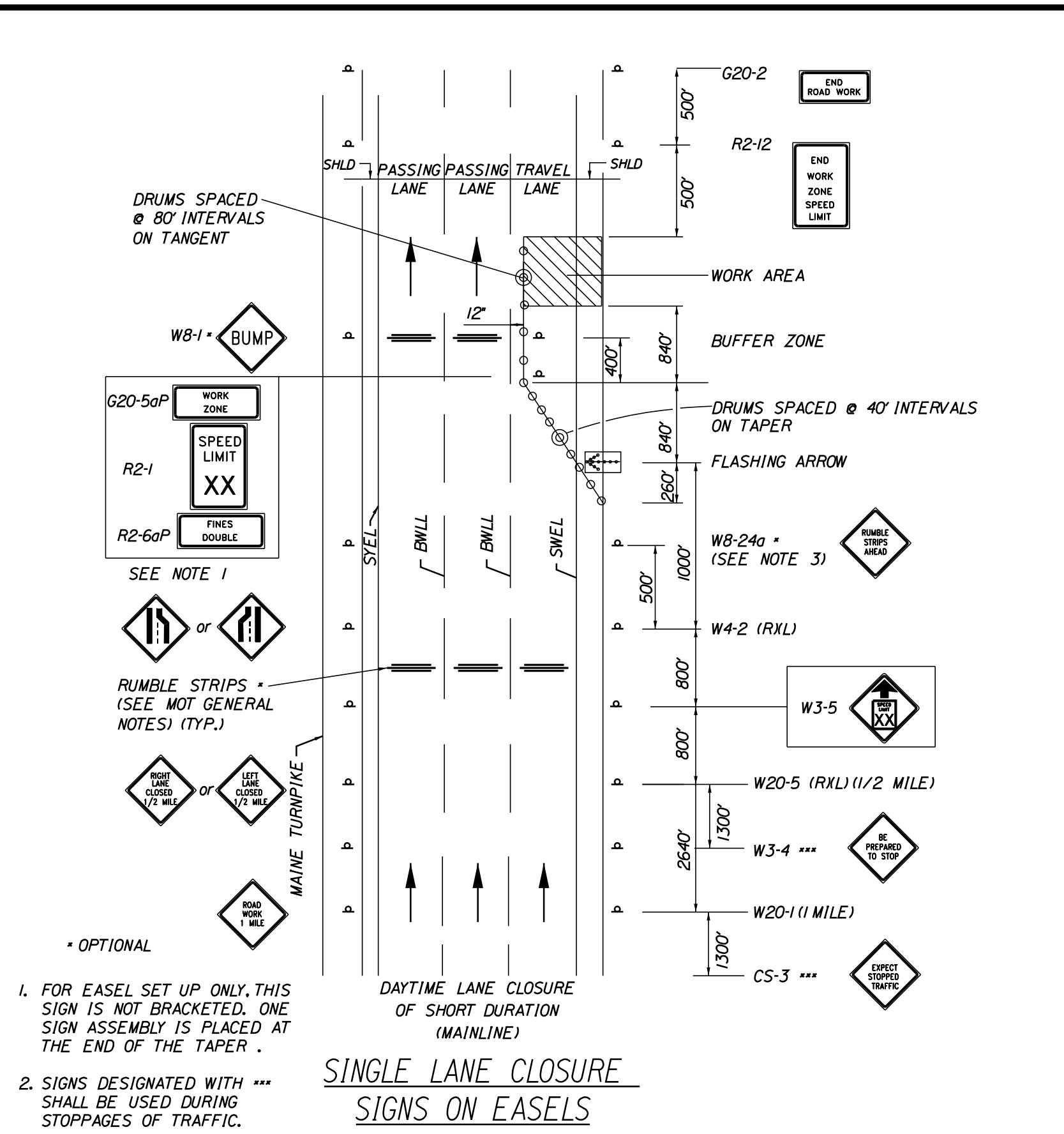
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC  
 ROUTE 112 TYPICAL SECTIONS

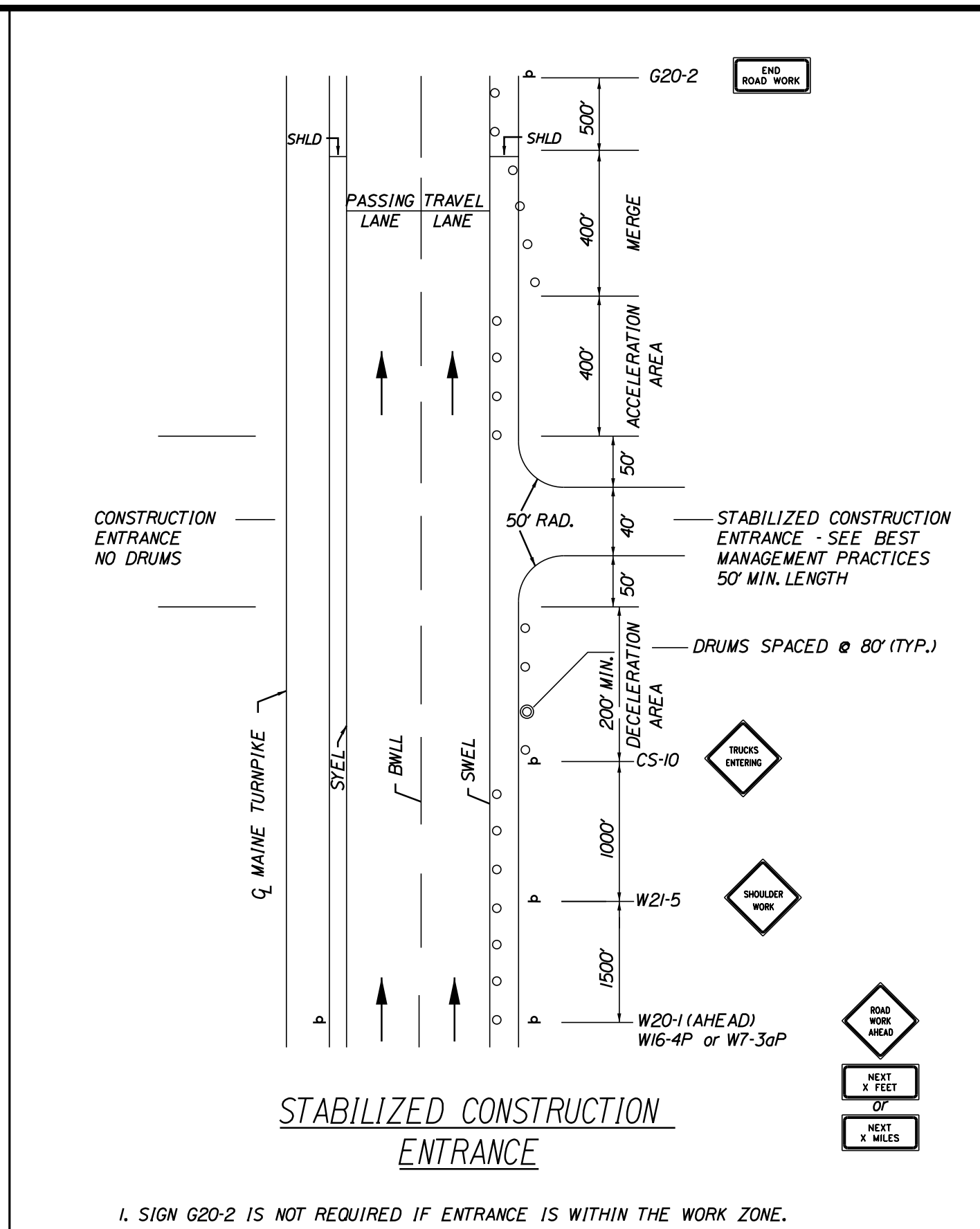
SHEET NUMBER: MOT-04  
 CONTRACT: 2022.07  
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Date: 10/17/2022

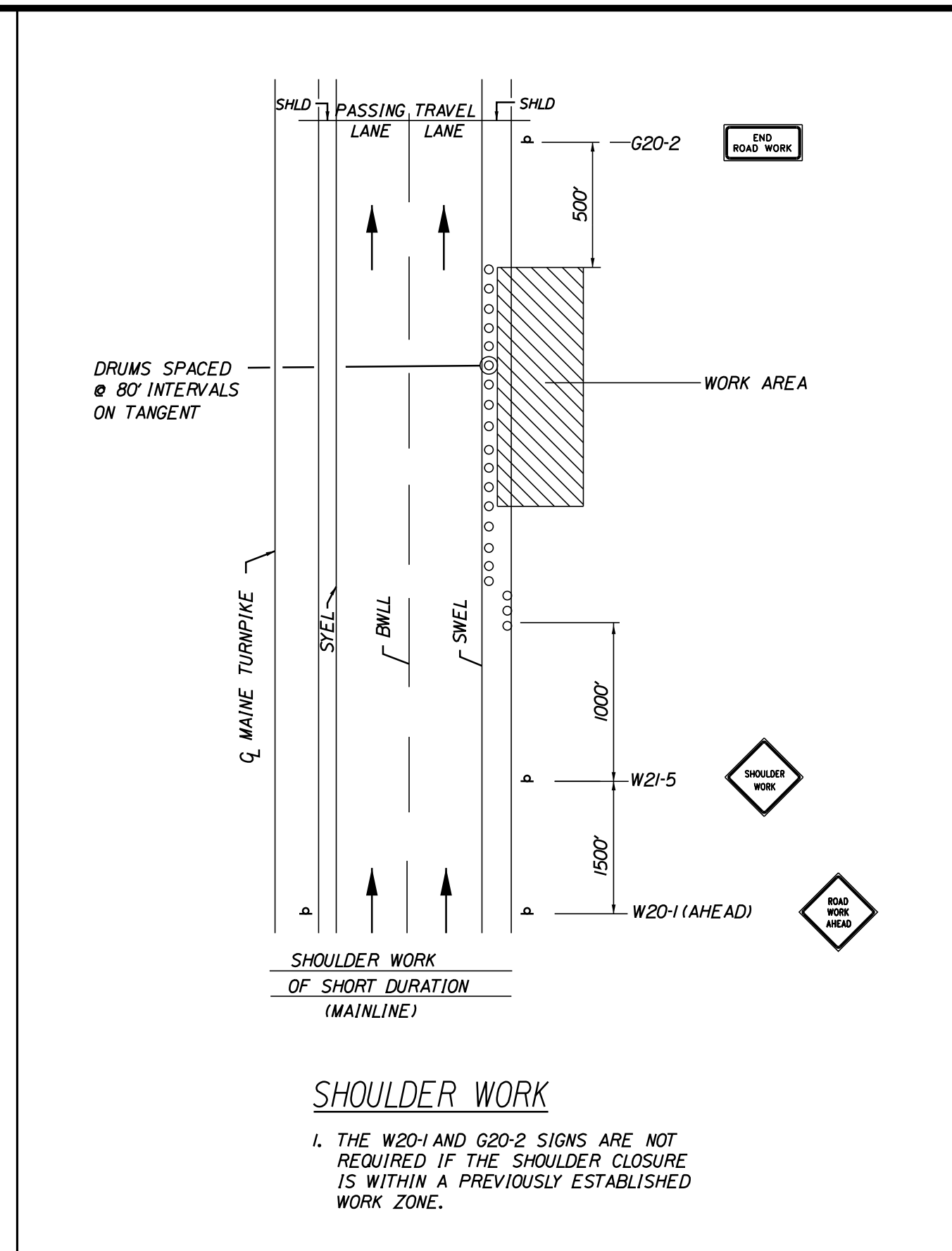
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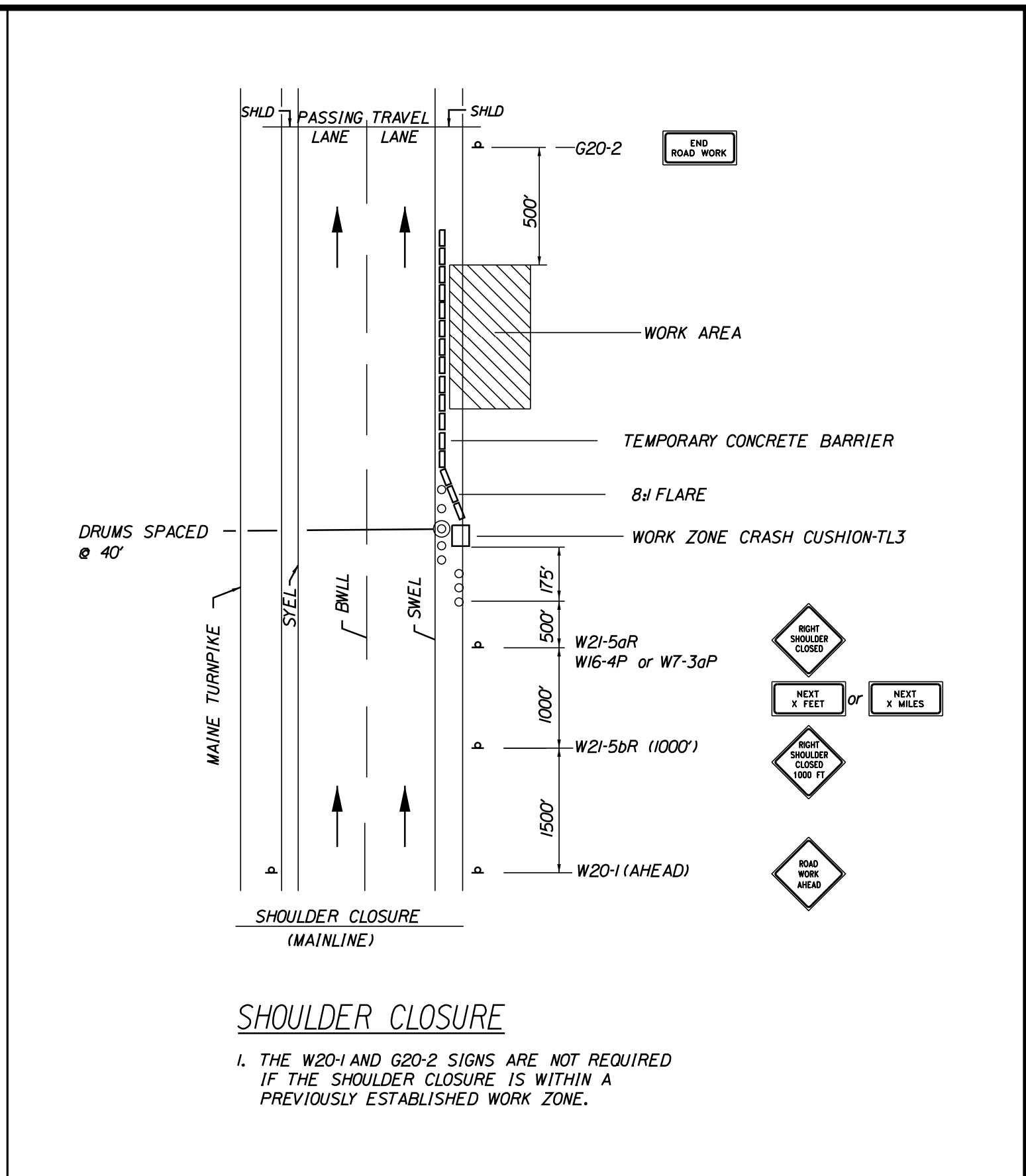
**SINGLE LANE CLOSURE SIGNS ON EASELS**



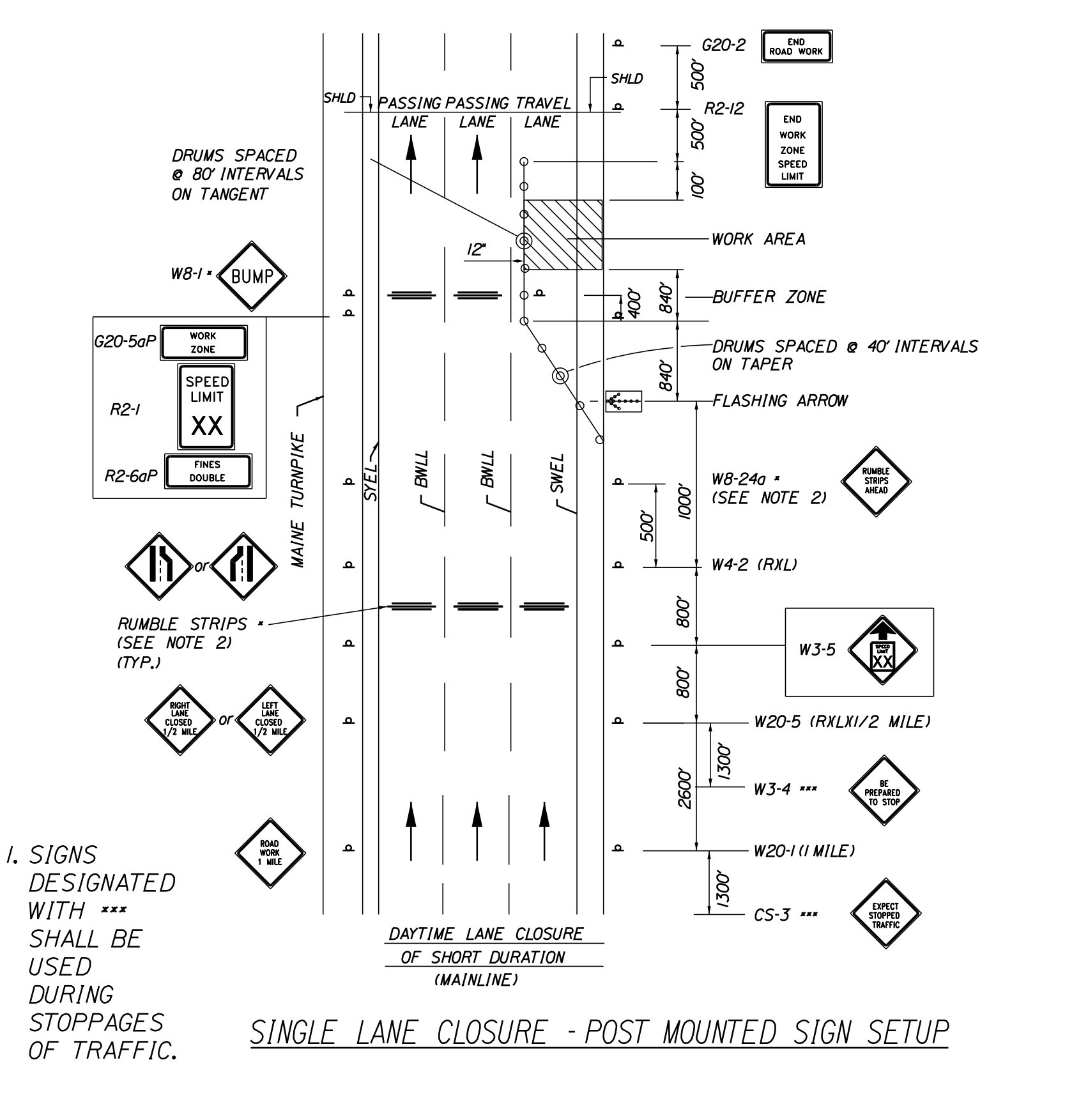
**STABILIZED CONSTRUCTION ENTRANCE**



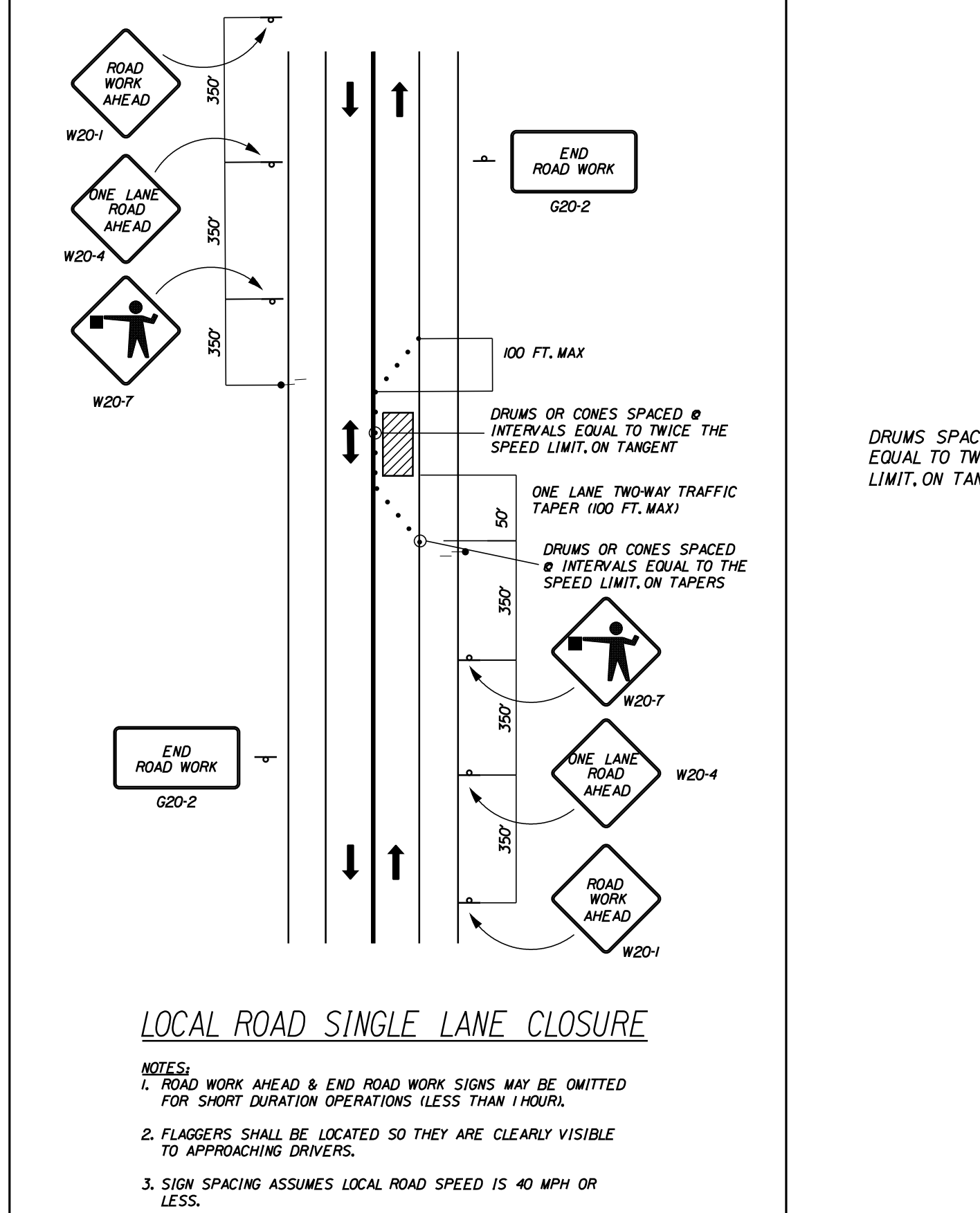
**SHOULDER WORK**



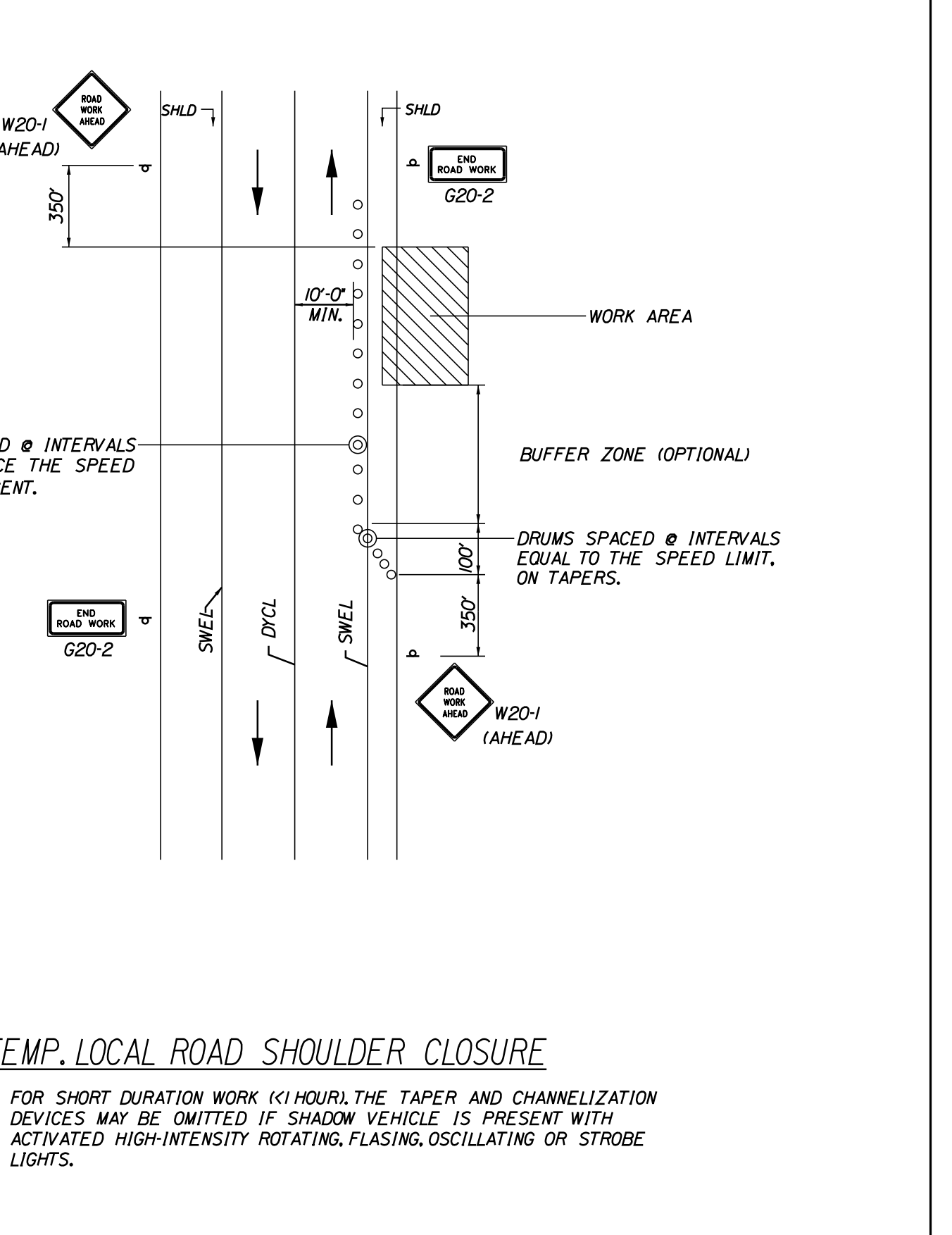
**SHOULDER CLOSURE (MAINLINE)**



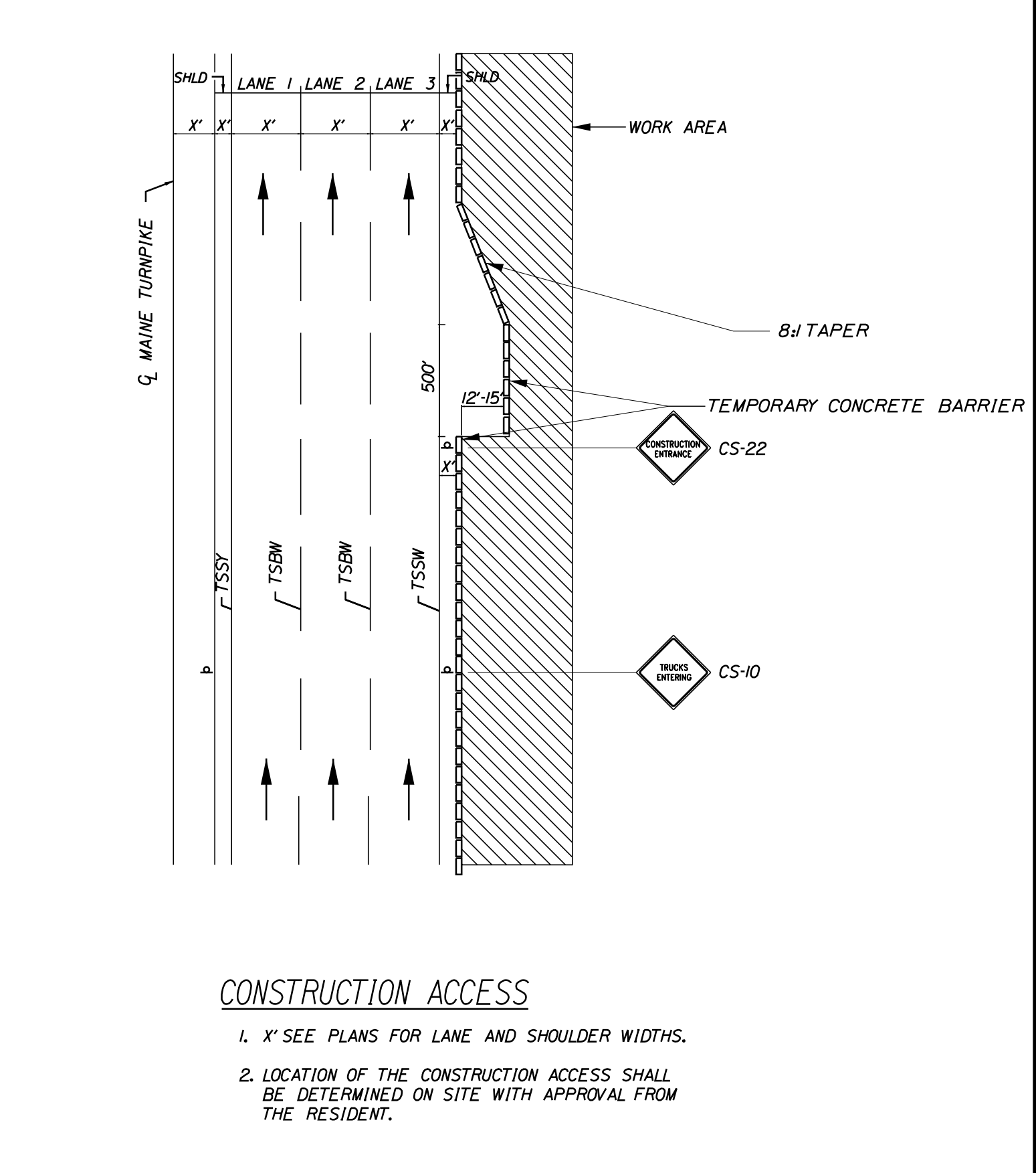
**SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP**



**LOCAL ROAD SINGLE LANE CLOSURE**



**TEMP. LOCAL ROAD SHOULDER CLOSURE**



**CONSTRUCTION ACCESS**

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

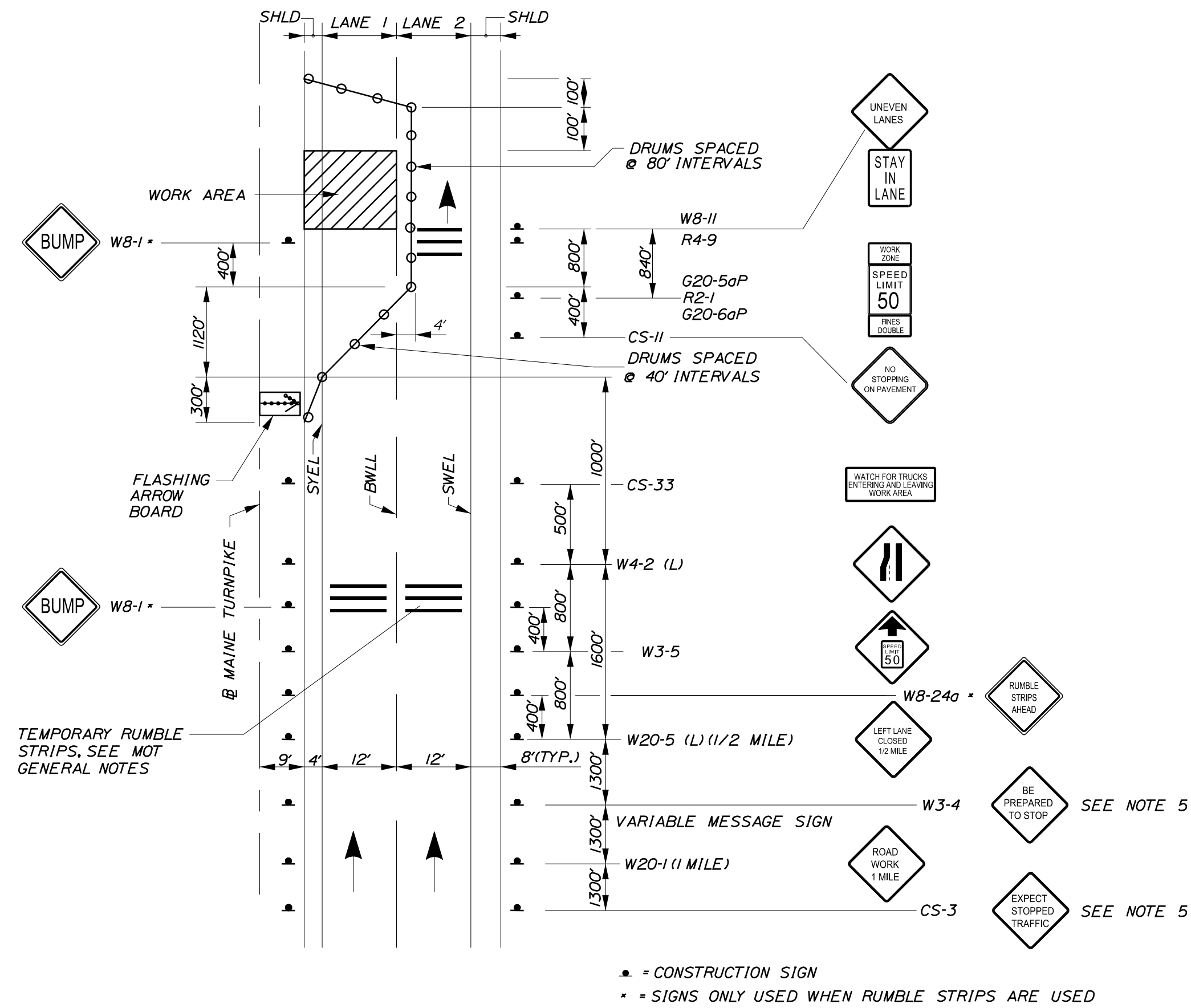
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
DETAILS 1

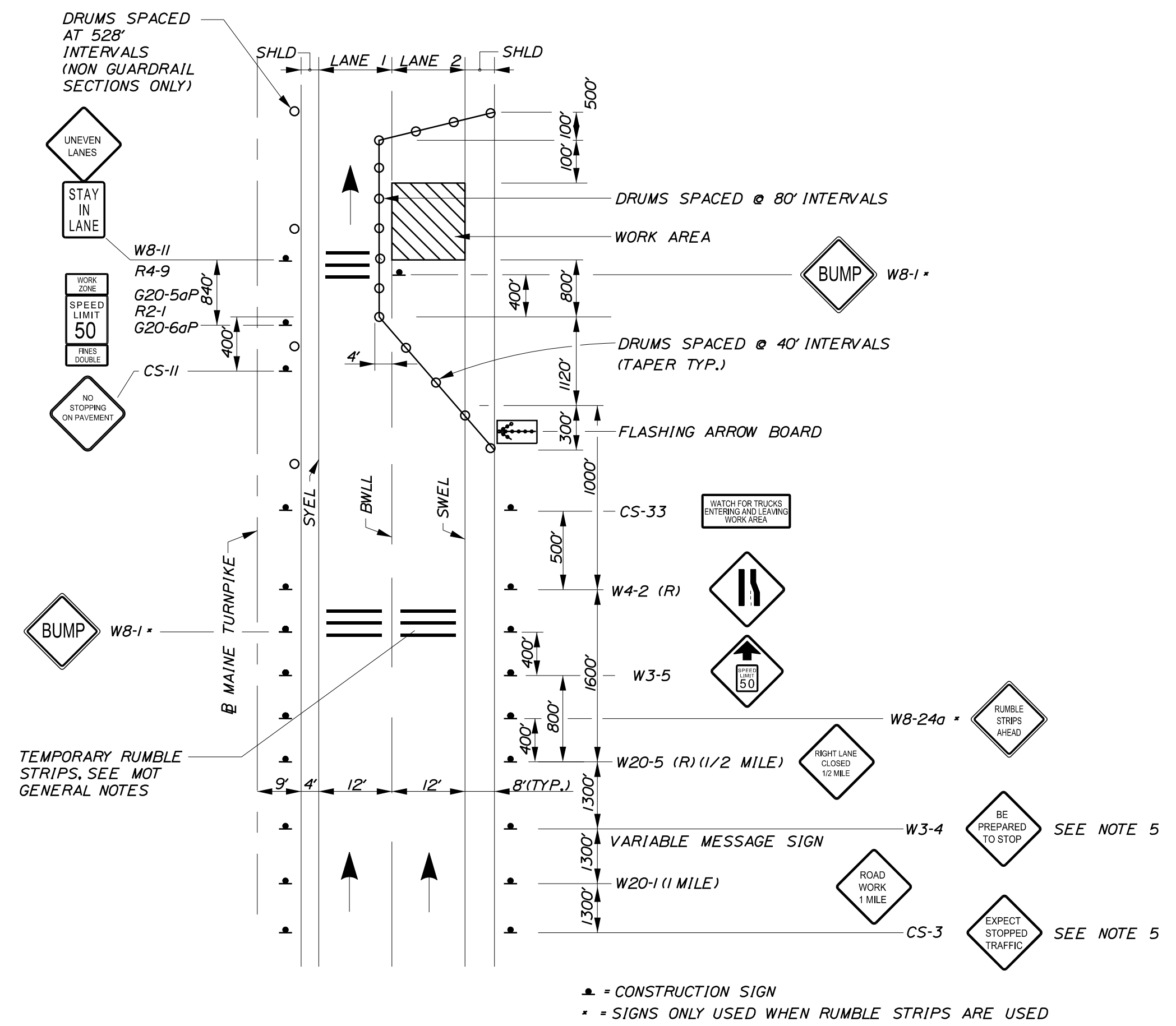
SHEET NUMBER: MOT-05  
CONTRACT: 2022.07  
26 OF 735

Date: 10/17/2022

Filename: ...HIGHWAY\MSTA\MOT\_Details.dgn



LANE CLOSURE FOR MILLING AND PAVING OPERATIONS  
LANE 1  
LANE CLOSURE FOR PAVEMENT MARKINGS  
LANE 1



LANE CLOSURE FOR MILLING AND PAVING OPERATIONS  
LANE 2

NOTES:

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. ALL TEMPORARY LANE CLOSURE SIGNS ARE TO BE MOUNTED ON EASELS.
3. 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 WHITE LANE LINES, AND ALL OTHER WORK NOT REQUIRING ENCROACHMENT INTO THE ADJACENT LANE.
4. SEE SHEET M-3 FOR STANDARD SINGLE LANE CLOSURE DETAILS.
5. ERECT CS-3 AND W3-4 SIGNS IMMEDIATELY PRIOR TO SCHEDULED STOPPAGES FOR EQUIPMENT MOVES AND REMOVE THE CS-1 AND W3-4 SIGNS IMMEDIATELY AFTER THE SCHEDULED STOPPAGES ARE COMPLETE.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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FAX (207) 883-3376

MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

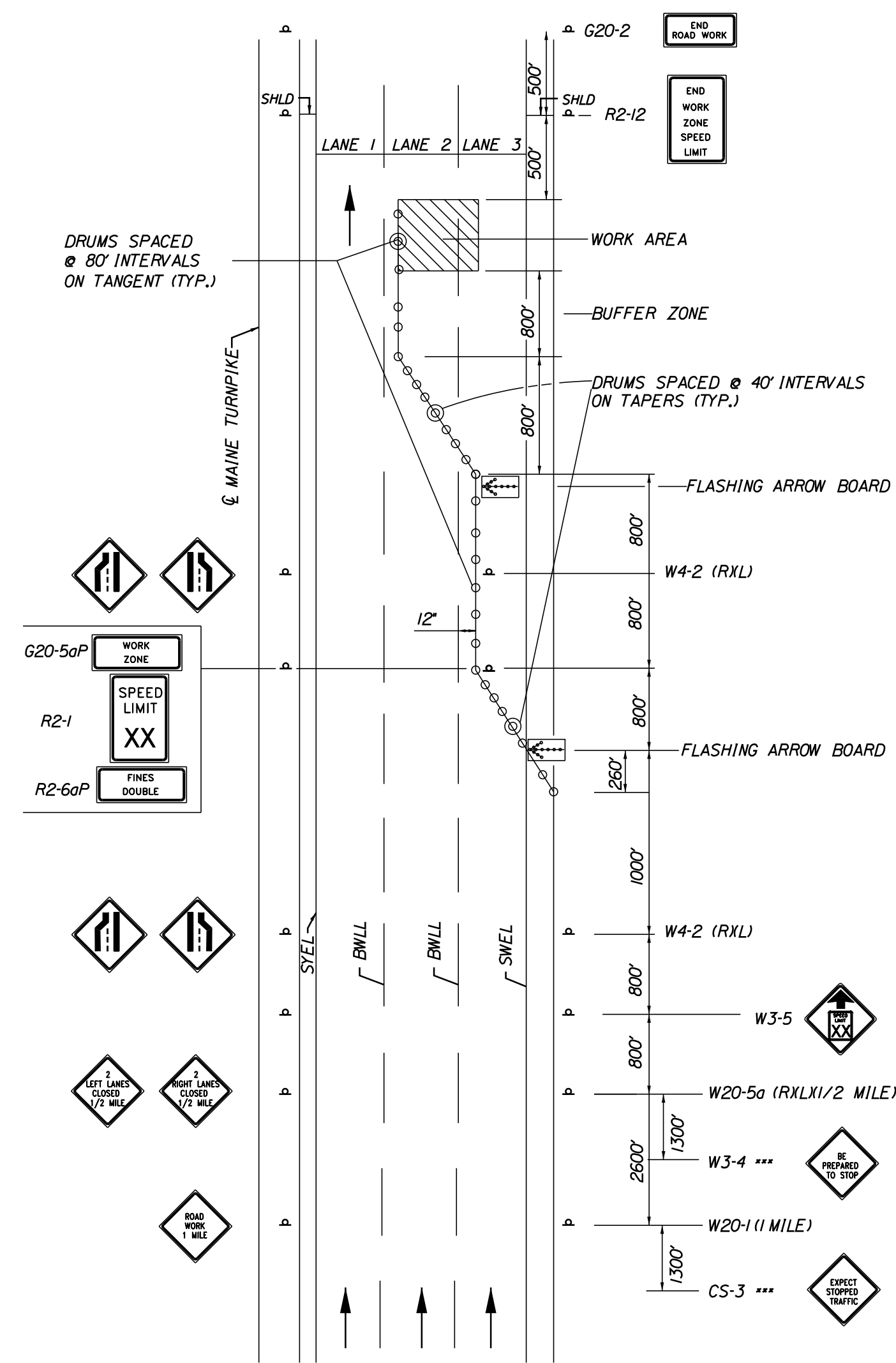
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
DETAILS 2

SHEET NUMBER: MOT-06  
CONTRACT: 2022.07  
27 OF 735

Date: 10/17/2022

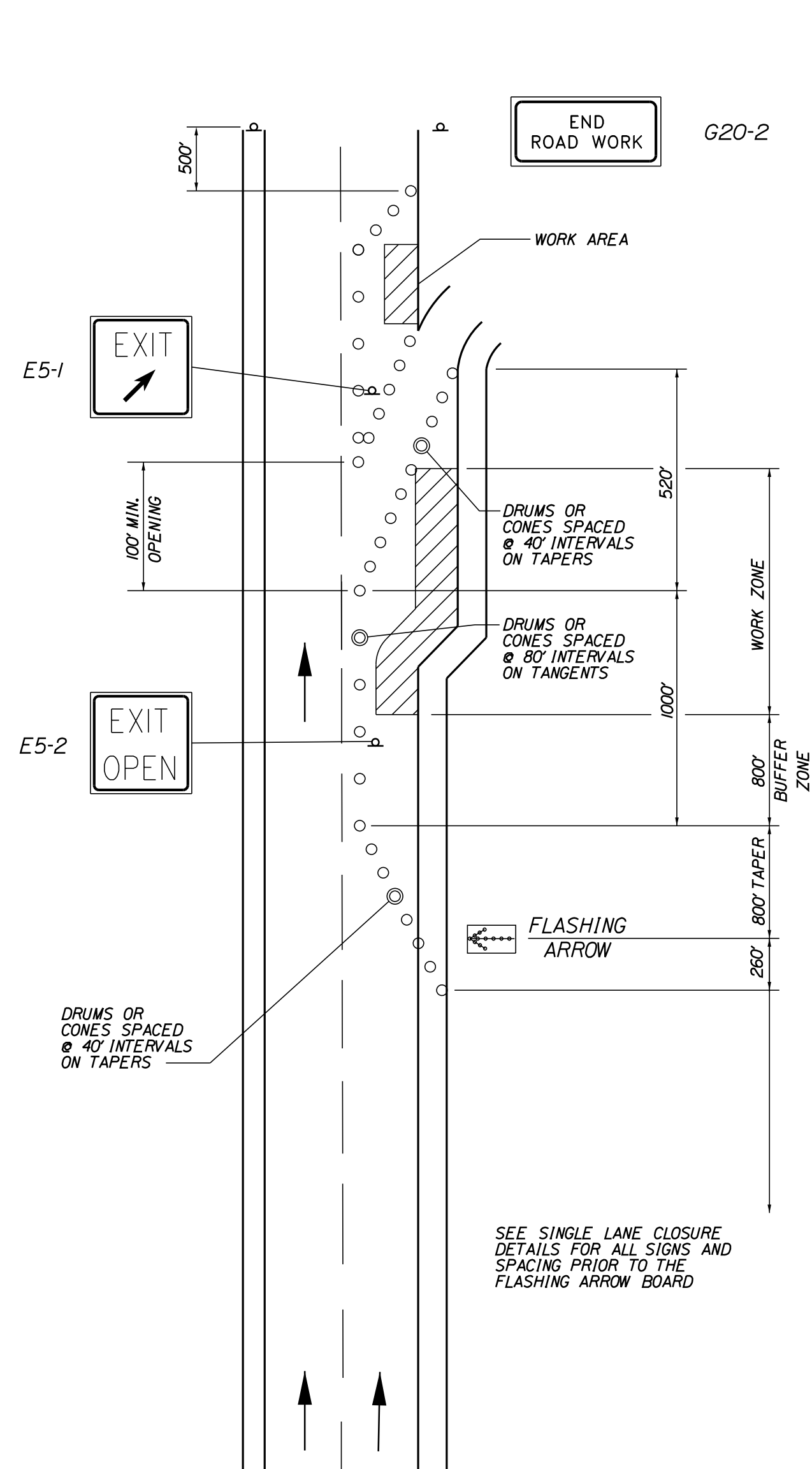
Filename: ...HIGHWAY\MSTA\MOT\_Details.dgn



**DOUBLE LANE CLOSURE**

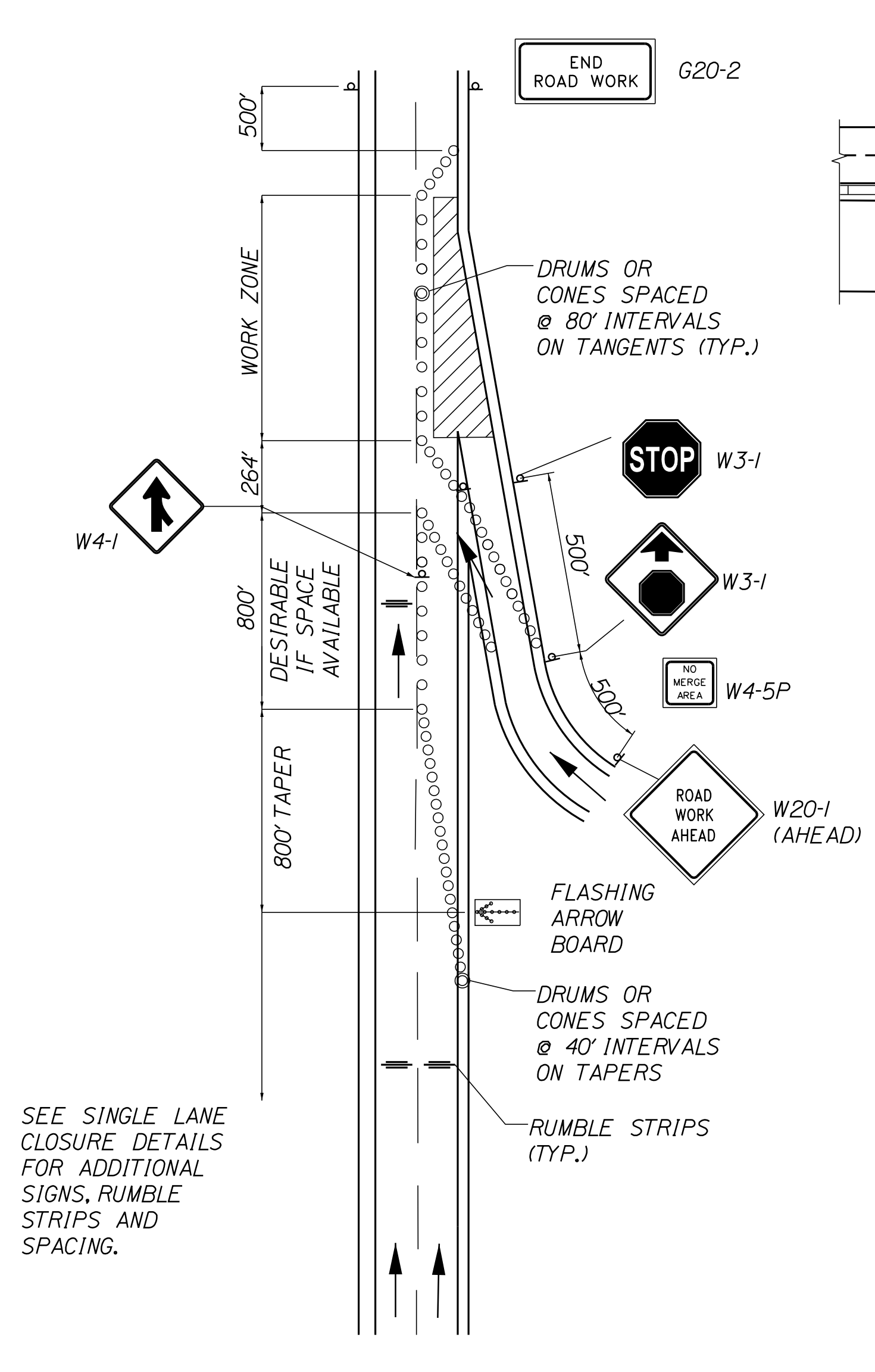
1. SEE SINGLE LANE CLOSURE NOTES FOR REDUCED SPEED SIGNS, TRAFFIC STOPPAGE SIGNS, SIGN SPACING AND OTHER PERTINENT INFORMATION.

DAYTIME LANE CLOSURE OF SHORT DURATION (MAINLINE)



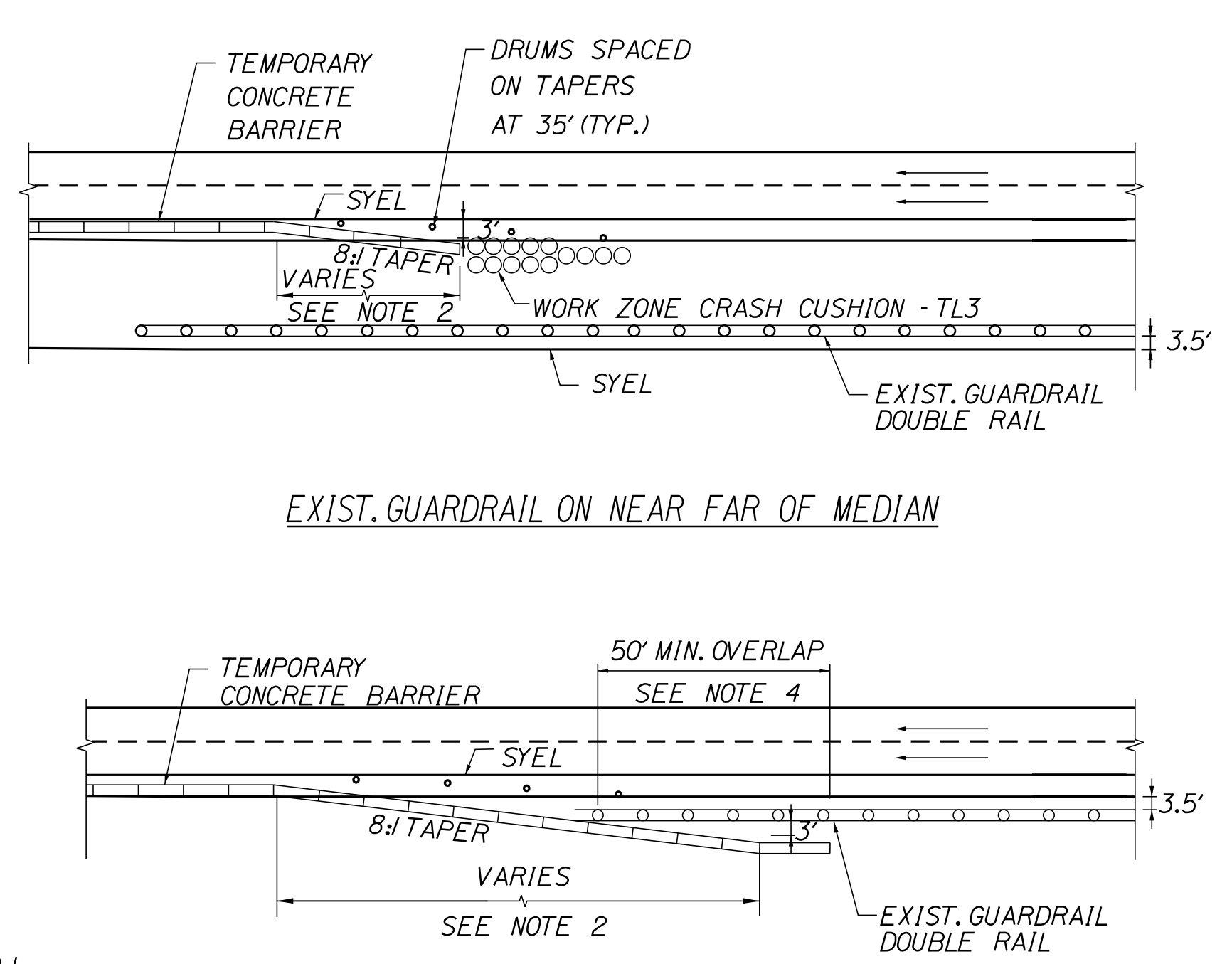
**TRAVEL LANE CLOSURE AT AN EXIT RAMP**

SEE SINGLE LANE CLOSURE DETAILS FOR ALL SIGNS AND SPACING PRIOR TO THE FLASHING ARROW BOARD



**TRAVEL LANE CLOSURE AT AN ENTRANCE RAMP**

SEE SINGLE LANE CLOSURE DETAILS FOR ADDITIONAL SIGNS, RUMBLE STRIPS AND SPACING.



**CONCRETE BARRIER / GUARDRAIL OVERLAP DETAIL**  
NOT TO SCALE

**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 DEPENDANT ON THE LOCATION OF THE BARRIER RELATIVE TO SHOULDERS OR LANES.
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. IF THE 50' MIN. LENGTH OF OVERLAP CAN NOT 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.

**TEMPORARY LANE CLOSURES AT RAMPS (MAINLINE)**  
NOT TO SCALE

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
	By	Date	
Designed	JRH	10\22	Checked
			PLP
Drawn	CHL	10\22	In Charge of
			LEM

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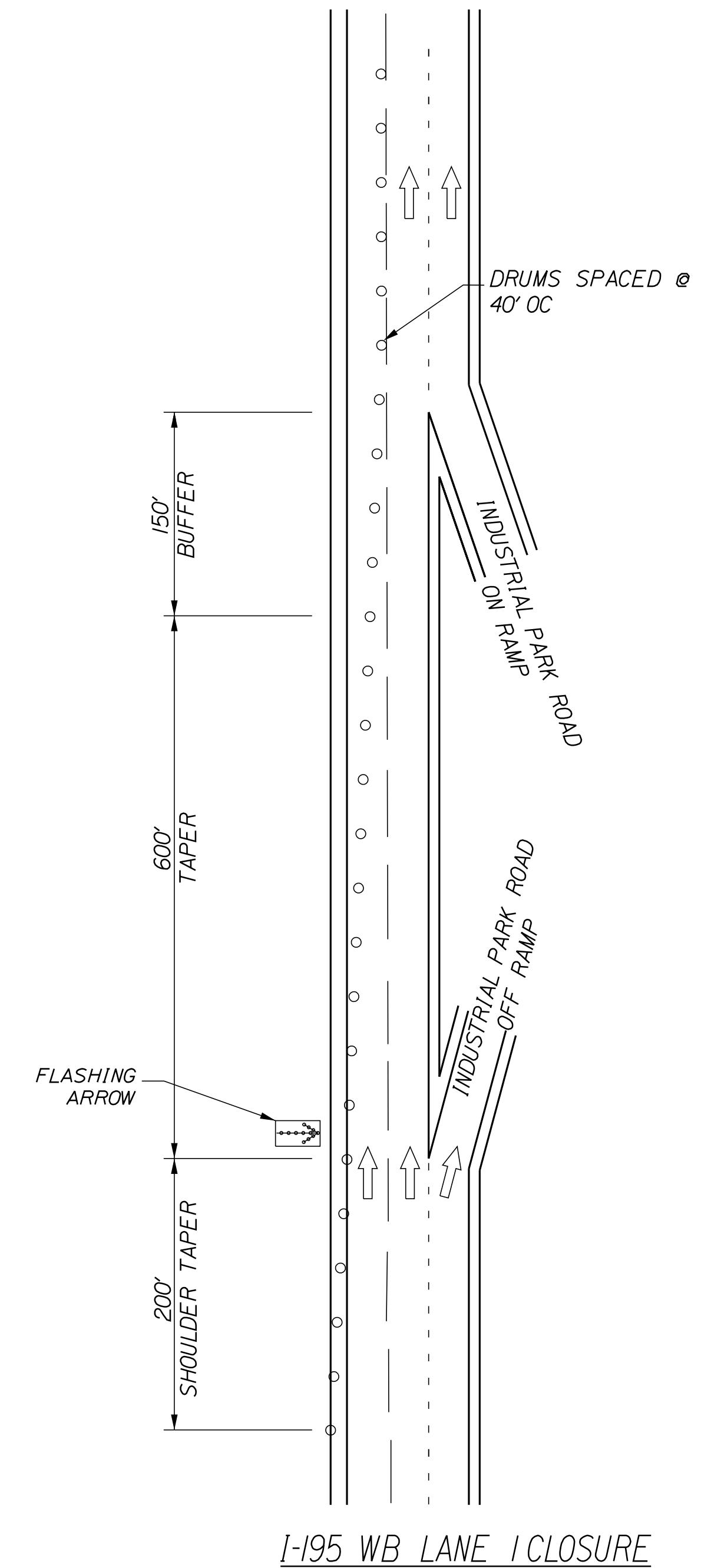
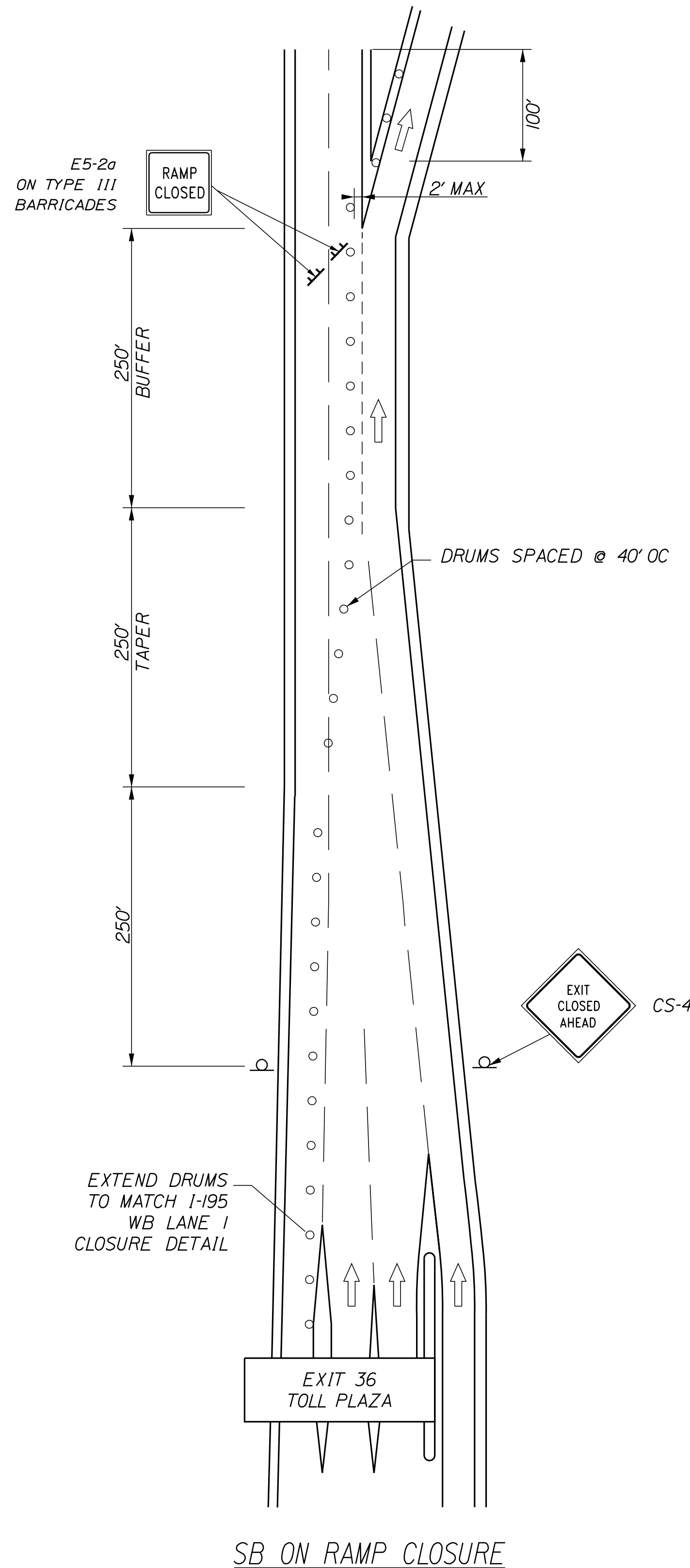
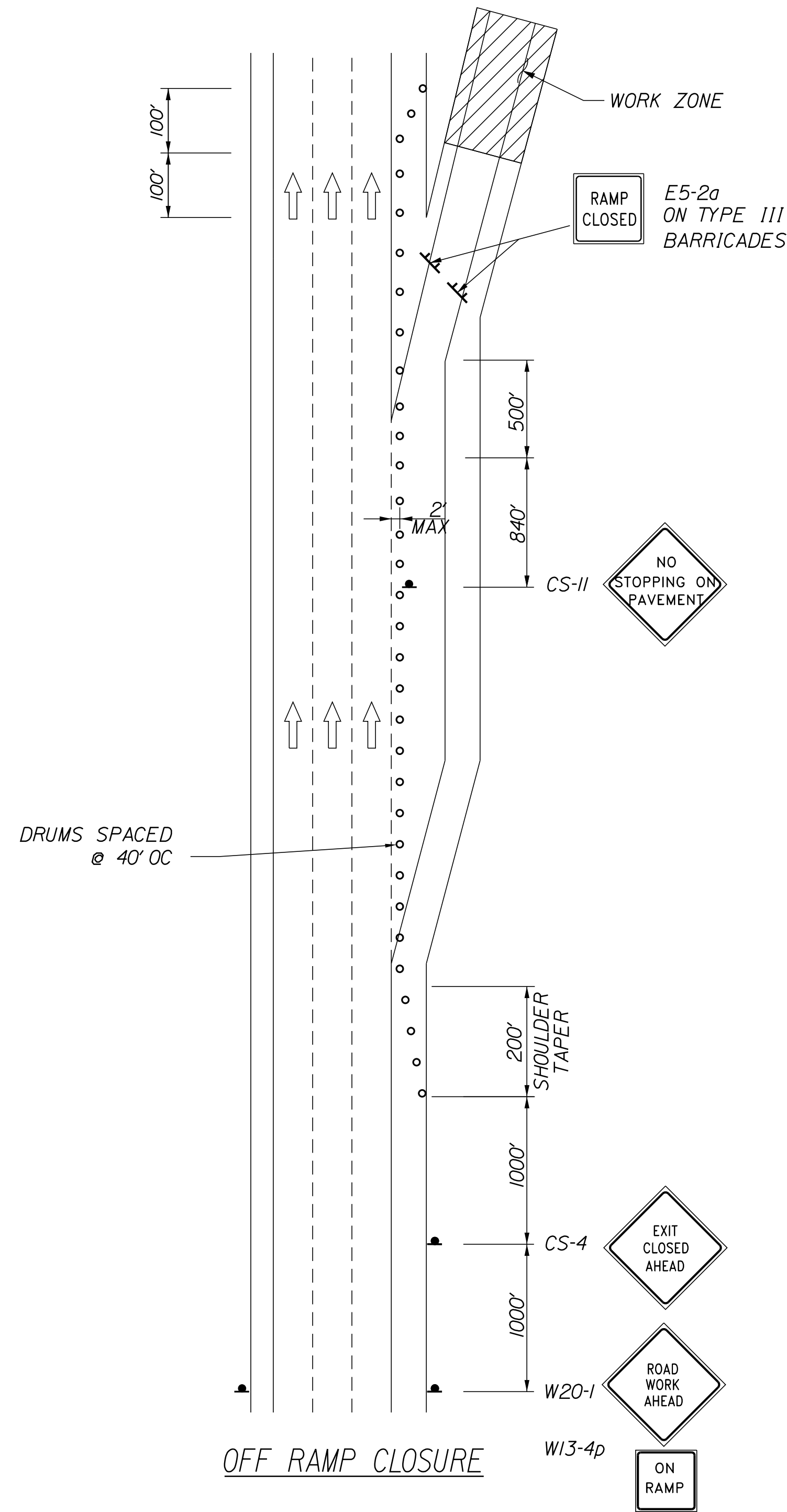
**THE GOLD STAR MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
DETAILS 3

SHEET NUMBER: MOT-07  
CONTRACT: 2022.07  
28 OF 735

Date: 10/17/2022

Filename: ...HIGHWAY\MSTA\MOT\_Details.dgn



**NOTES:**

1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
2. ALL SIGNS TO BE MOUNTED ON EASELS UNLESS OTHERWISE NOTED.
3. RAMP CLOSURES ALSO REQUIRE THE USE OF THE RAMP CLOSURE PLAN SHEET MT-XX.
4. SB ON RAMP CLOSURE SHALL ALSO INCLUDE I-195 WB LANE 1 CLOSURE DETAIL.

Scale: **NOT TO SCALE**

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22		PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

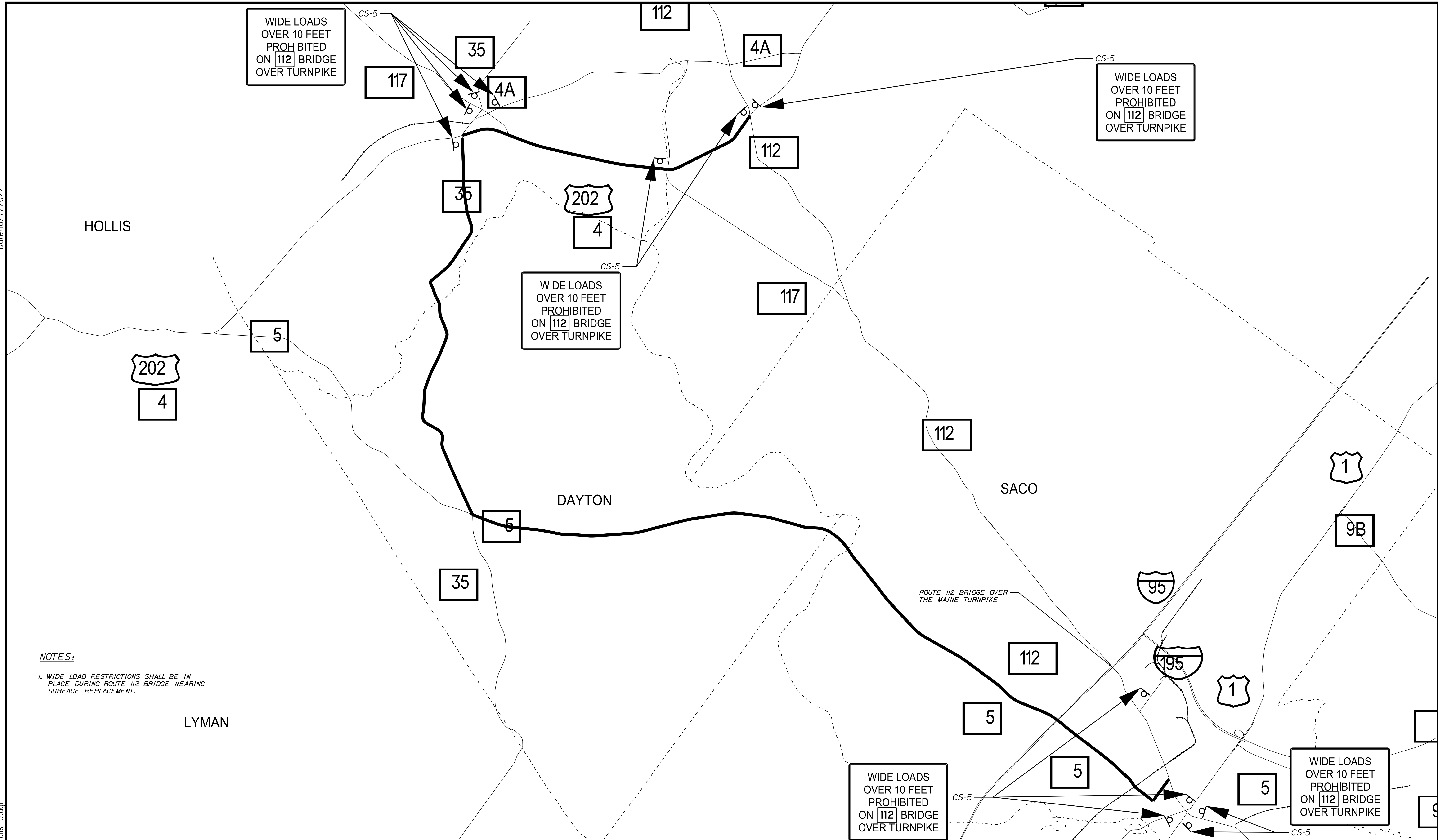
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC  
 DETAILS 4

SHEET NUMBER: MOT-08  
 CONTRACT: 2022.07  
 29 OF 735

Date: 10/17/2022

Filename: ...MSTA\_MOT\_Details\_5.dgn



**NOTES:**  
 1. WIDE LOAD RESTRICTIONS SHALL BE IN PLACE DURING ROUTE 112 BRIDGE WEARING SURFACE REPLACEMENT.

Scale: 2500 0 2500 5000  
 Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	AFS	10\22	In Charge of	LEM 10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

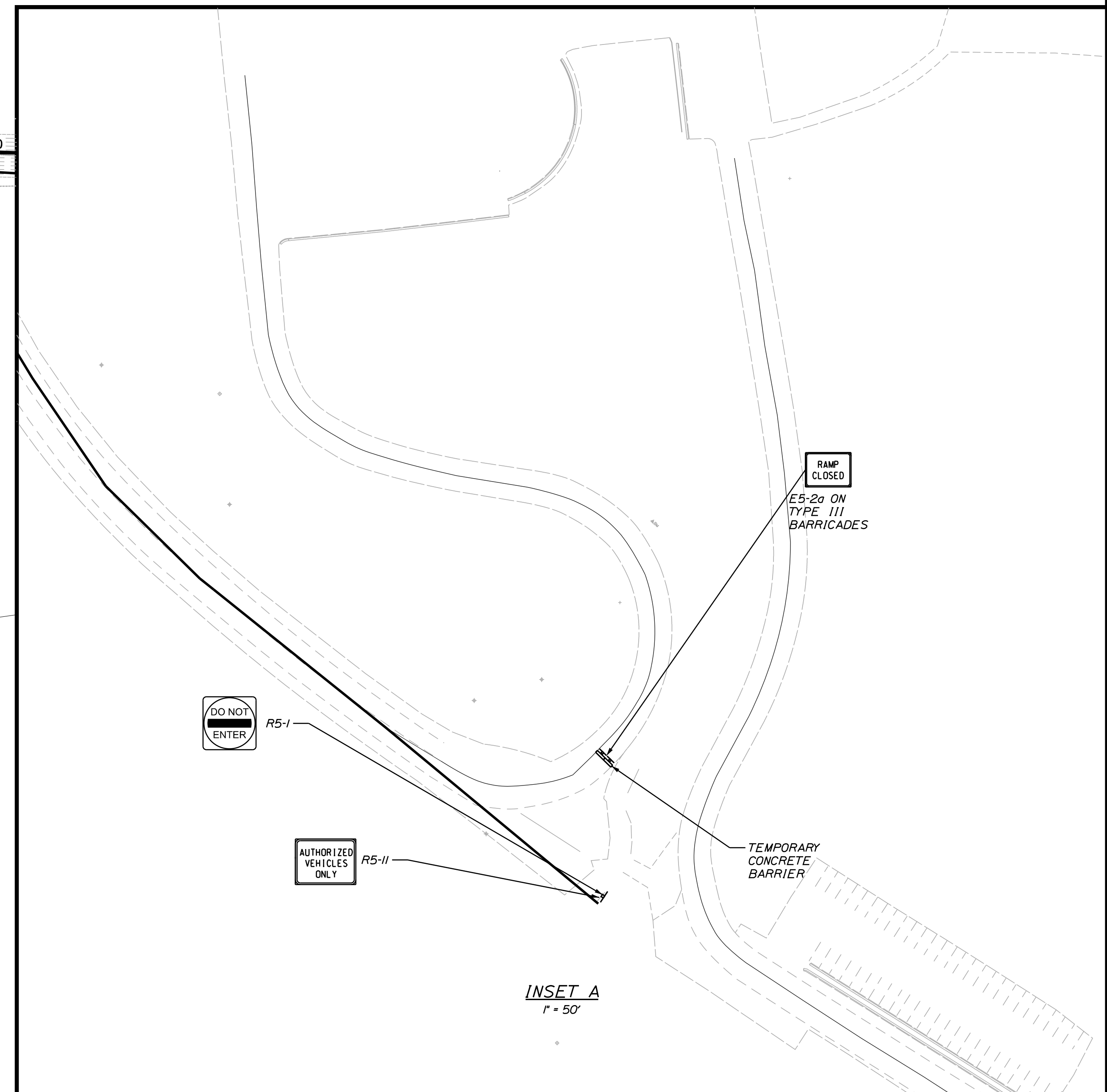
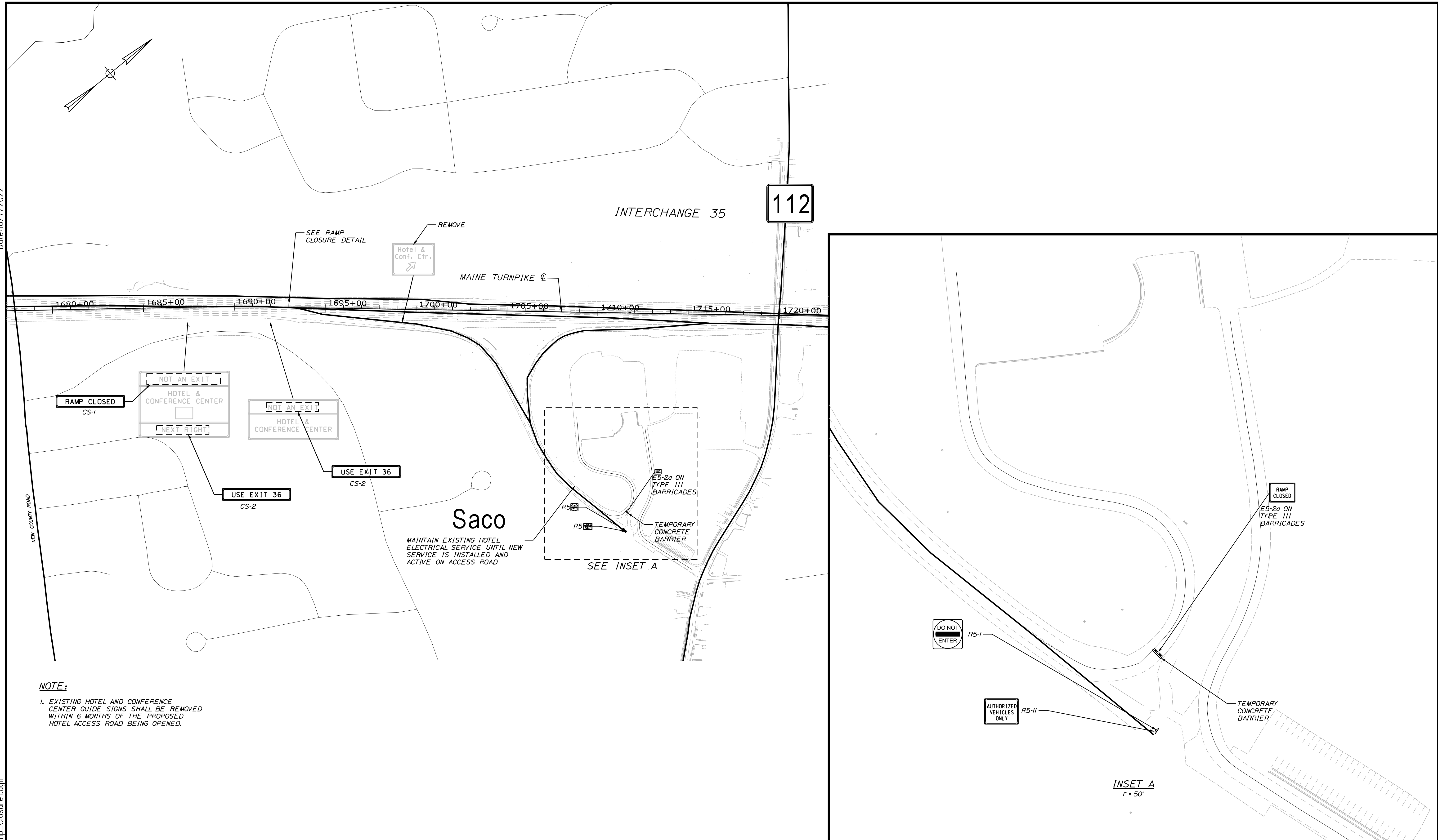
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC  
 DETAILS 5**

SHEET NUMBER: MOT-09  
 CONTRACT: 2022.07  
 30 OF 735

Date: 10/17/2022

Filename: ...MSTA\_MOT\_Ramp\_Closure1.dgn



**NOTE:**

1. EXISTING HOTEL AND CONFERENCE CENTER GUIDE SIGNS SHALL BE REMOVED WITHIN 6 MONTHS OF THE PROPOSED HOTEL ACCESS ROAD BEING OPENED.

Scale: 250 0 250 500  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

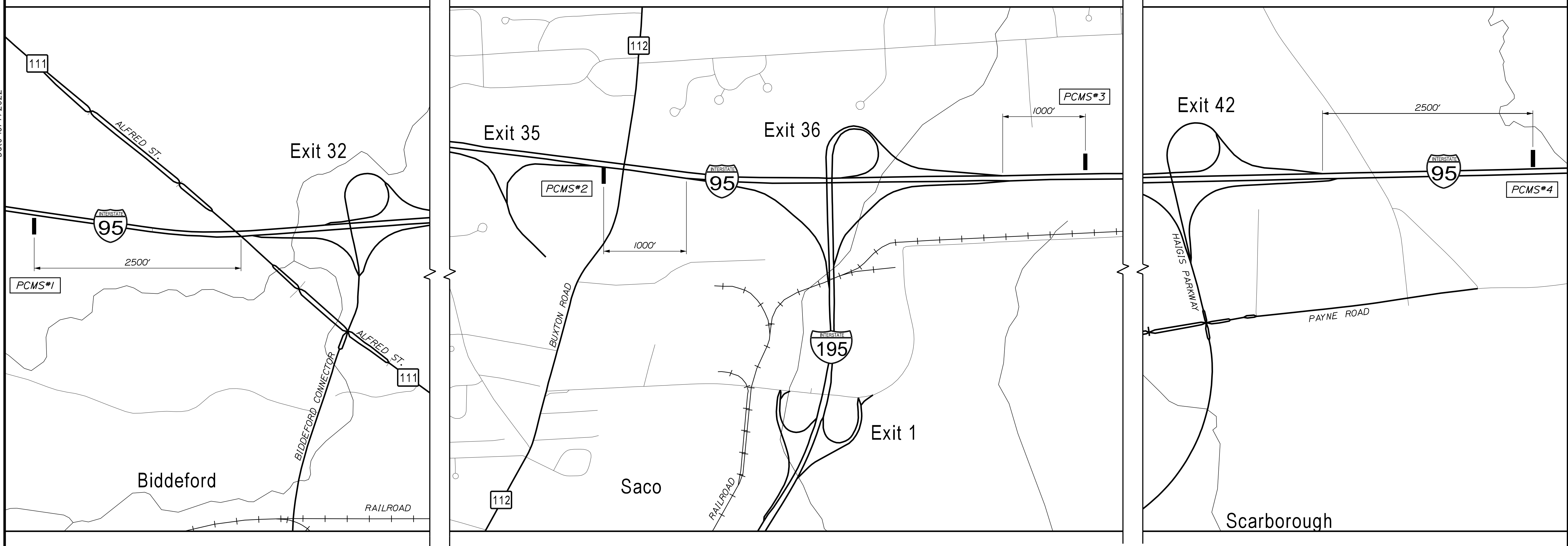
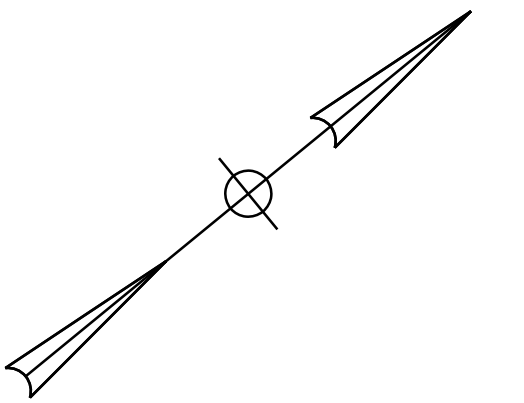
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
HOTEL RAMPS CLOSURE PLAN

SHEET NUMBER: MOT-10  
31 OF 735

CONTRACT: 2022.07

Date: 10/17/2022



ALL PCMS (1 WEEK PRIOR TO CLOSURE)

EXIT 36  
RAMP TO  
CLOSE SCREEN 1

XX/XX  
TO  
XX/XX SCREEN 2

XX:XX PM  
TO  
XX:XX AM SCREEN 3

PCMS #1, #3

EXIT 36  
RAMP  
CLOSED SCREEN 1

USE  
EXIT 32 SCREEN 2

PCMS #2, #4

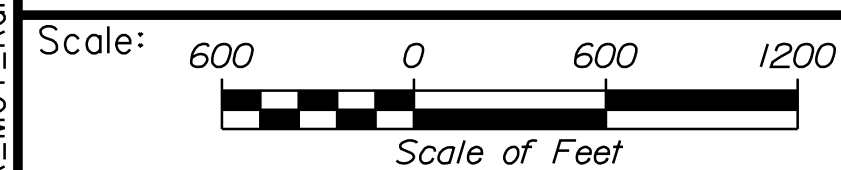
EXIT 36  
RAMP  
CLOSED SCREEN 1

USE  
EXIT 42 SCREEN 2

PCMS MESSAGES

NOTES:

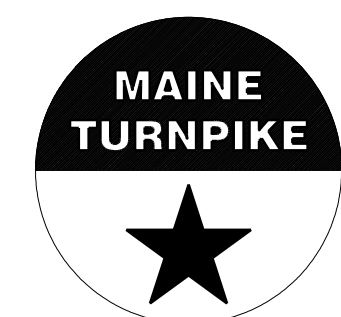
1. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 21 DAYS PRIOR TO OFF RAMP CLOSURES SO THAT THE RESIDENT CAN COORDINATE THE CLOSURE WITH MTA.
2. ALL MESSAGES SHALL BE CONFIRMED BY THE RESIDENT.
3. PCMS MAY BE REUSED AT MULTIPLE LOCATIONS.
4. OFF RAMP CLOSURES ALSO REQUIRE THE USE OF THE OFF RAMP CLOSURE DETAIL.



Designed by:



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
RAMP CLOSURE PLAN**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

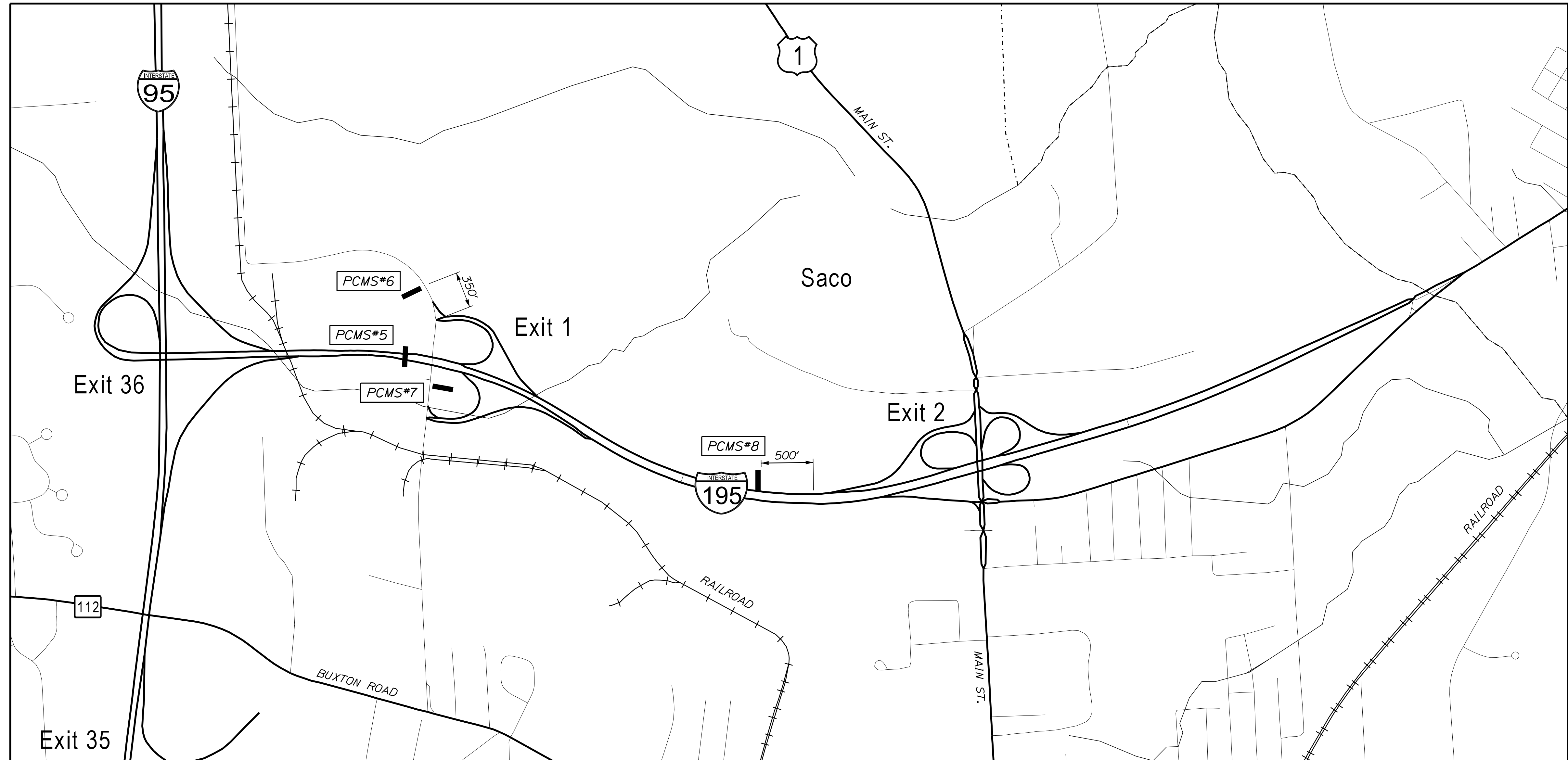
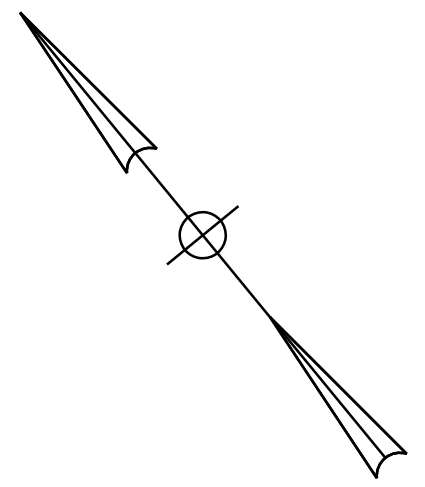
SHEET NUMBER: MOT-11

32 OF 735

Filename: ...MSTA\_MOT\_Ramp\_Closure2.dgn



Date: 10/17/2022



ALL PCMS (1 WEEK PRIOR TO CLOSURE)

I-95 XX  
EXIT 36  
TO CLOSE

SCREEN 1

XX/XX  
TO  
XX/XX

SCREEN 2

XX:XX PM  
TO  
XX:XX AM

SCREEN 3

PCMS MESSAGES

ALL PCMS (NB OR SB)

I-95 XX  
EXIT 36  
CLOSED

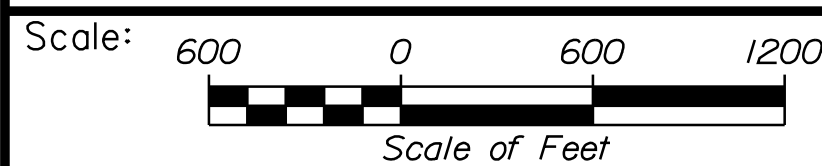
SCREEN 1

USE  
ROUTE 1

SCREEN 2

1. ALL MESSAGES SHALL BE CONFIRMED BY THE RESIDENT.

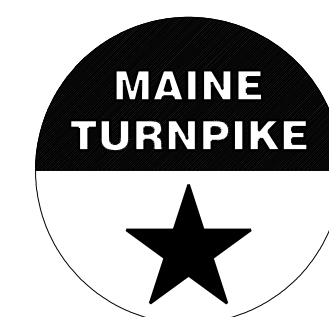
2. I-95 EXIT 36 ON RAMP CLOSURES ALSO REQUIRE THE USE OF APPROPRIATE ON RAMP CLOSURE DETAIL.



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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
RAMP CLOSURE PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

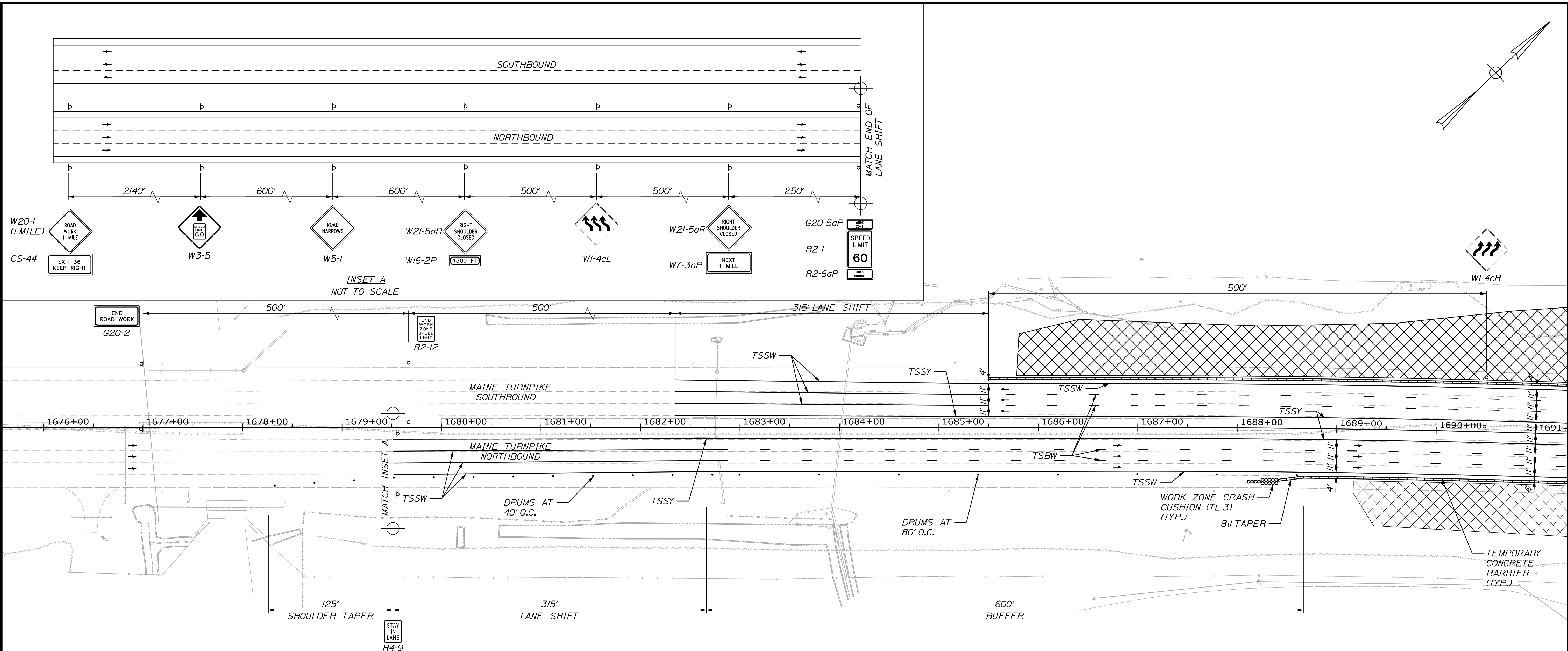
CONTRACT: 2022.07

SHEET NUMBER: MOT-12

33 OF 735

Filename: ...MSTA\MOT\_Ramp\_Closure2.dgn

Date: 10/17/2022



**MAJOR CONSTRUCTION ACTIVITIES**

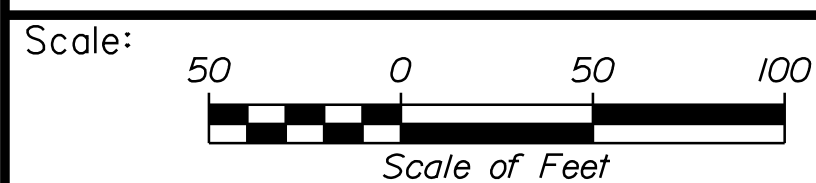
- PHASE 1A- BEGIN MAINLINE WIDENING CONSTRUCTION  
CONSTRUCT PRELOAD EMBANKMENT  
BEGIN NORTHBOUND TOLL PLAZA CONSTRUCTION  
BEGIN EXIT 35 RAMP CONSTRUCTION  
BEGIN COLLECTOR-DISTRIBUTOR ROAD CONSTRUCTION  
BEGIN UNDERDRAINED SOIL FILTER CONSTRUCTION
- PHASE 1B- CONSTRUCT PORTION OF EXIT 36 SOUTHBOUND RAMPS  
BEGIN SOUTHBOUND TOLL PLAZA CONSTRUCTION  
INSTALL OVERHEAD SIGN STRUCTURES  
CONSTRUCT SOIL NAIL WALL  
RELOCATE GOOSEFARE BROOK AND CONSTRUCT RETAINING WALL
- PHASE 2A- CONSTRUCT NORTHBOUND AND SOUTHBOUND FULL DEPTH PAVEMENT  
CONSTRUCT PORTION EXIT 36 NORTHBOUND OFF RAMP AND GORE  
CONSTRUCT REMAINDER OF EXIT 36 SOUTHBOUND RAMPS
- PHASE 2B- CONSTRUCT REMAINDER OF EXIT 36 NORTHBOUND OFF RAMP

**SEQUENCE REQUIREMENTS**

1. PRELOAD EMBANKMENT MUST BE COMPLETED AND INSTRUMENTATION INITIALIZED BY MAY 26, 2023. SETTLEMENT TIME IS ANTICIPATED TO BE 6 MONTHS. CONSTRUCTION OF TOLL PLAZA MAY COMMENCE PRIOR TO COMPLETION OF SETTLEMENT PERIOD IF APPROVED BY THE ENGINEER AS NOTED IN THE SPECIAL PROVISIONS.
2. TEMPORARY RAMP CLOSURES SHALL BE LIMITED AS NOTED IN THE SPECIAL PROVISIONS.
3. AFTER COMPLETING EXIT 36 SB ON RAMP WIDENING IN PHASE 1A, SINGLE NIGHT CLOSURES SHALL BE USED TO COMPLETE MILLING AND PARTIAL DEPTH PAVEMENT RECONSTRUCTION OF THE RAMP TRAVEL LANE AND RIGHT SHOULDER PRIOR TO MOVING TO PHASE 1B.

**NOTES**

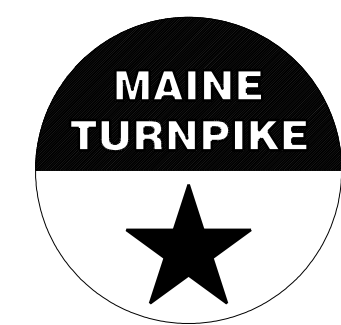
1. MILL AND OVERLAY ON MAINLINE SHALL BE COMPLETED DURING PHASE 2 WITH NIGHTTIME LANE CLOSURES.
2. TEMPORARY BARRIER SHALL NOT BE INSTALLED ON BOTH SIDES OF TRAFFIC SIMULTANEOUSLY.
3. SEE SPECIAL PROVISIONS FOR MINIMUM MAINLINE SHOULDER REQUIREMENTS FOR WINTER MONTHS.
4. DRAINAGE AT EXISTING LOW POINTS SHALL BE PROVIDED OR MAINTAINED AT ALL TIMES.
5. A MAXIMUM OF 5,000 LF OF TEMPORARY CONCRETE BARRIER MAY BE IN PLACE FOR NO MORE THAN 45 DAYS WHEN TRAVEL LANE IS LESS THAN 4' FROM A LEFT SHOULDER BARRIER OR 8' FROM A RIGHT SHOULDER BARRIER AND SHALL ONLY BE IN PLACE WHEN WORK IS ONGOING IN THAT AREA.



Designed by:



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
PLAN 1

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

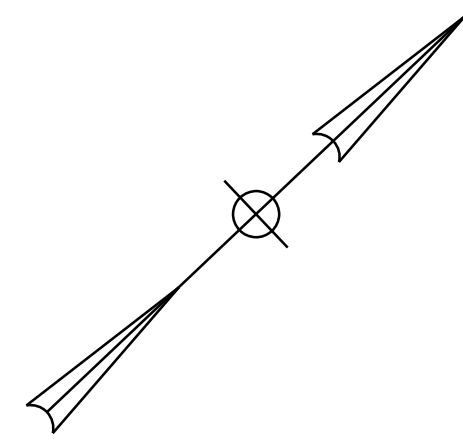
CONTRACT: 2022.07

SHEET NUMBER: MOT-13

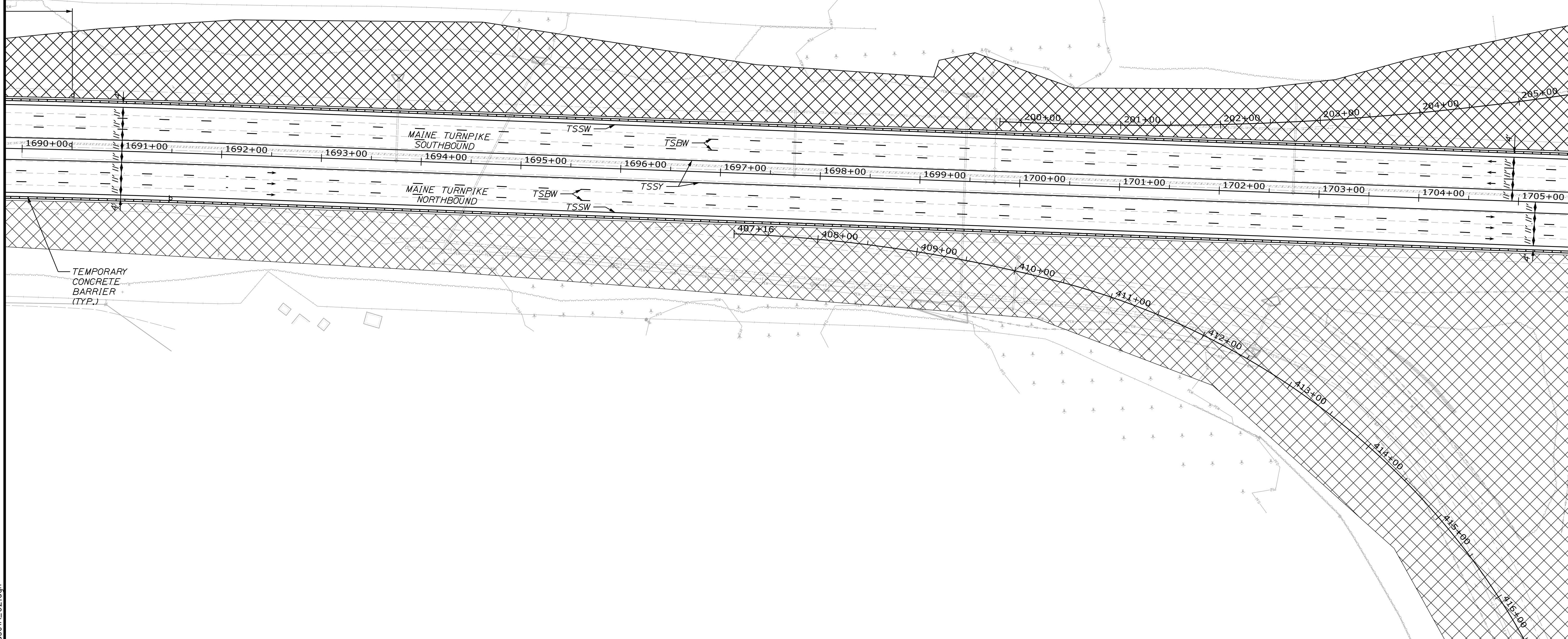
34 OF 735

Filename: ...MSTA\_MOT\_Phase1A\_01.dgn

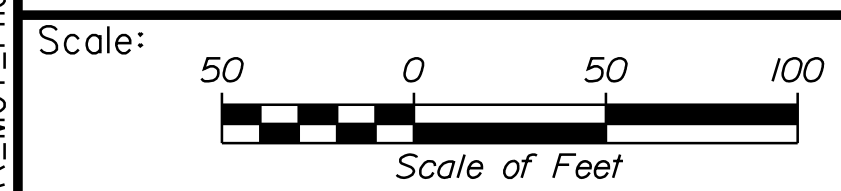
Date: 10/7/2022



WI-4cR



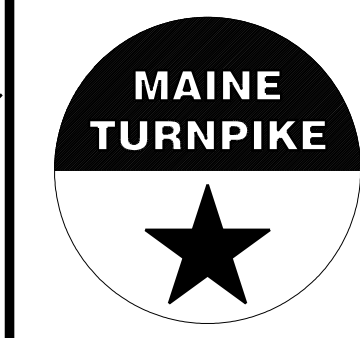
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
PLAN 2**

No.	Revision	By	Date

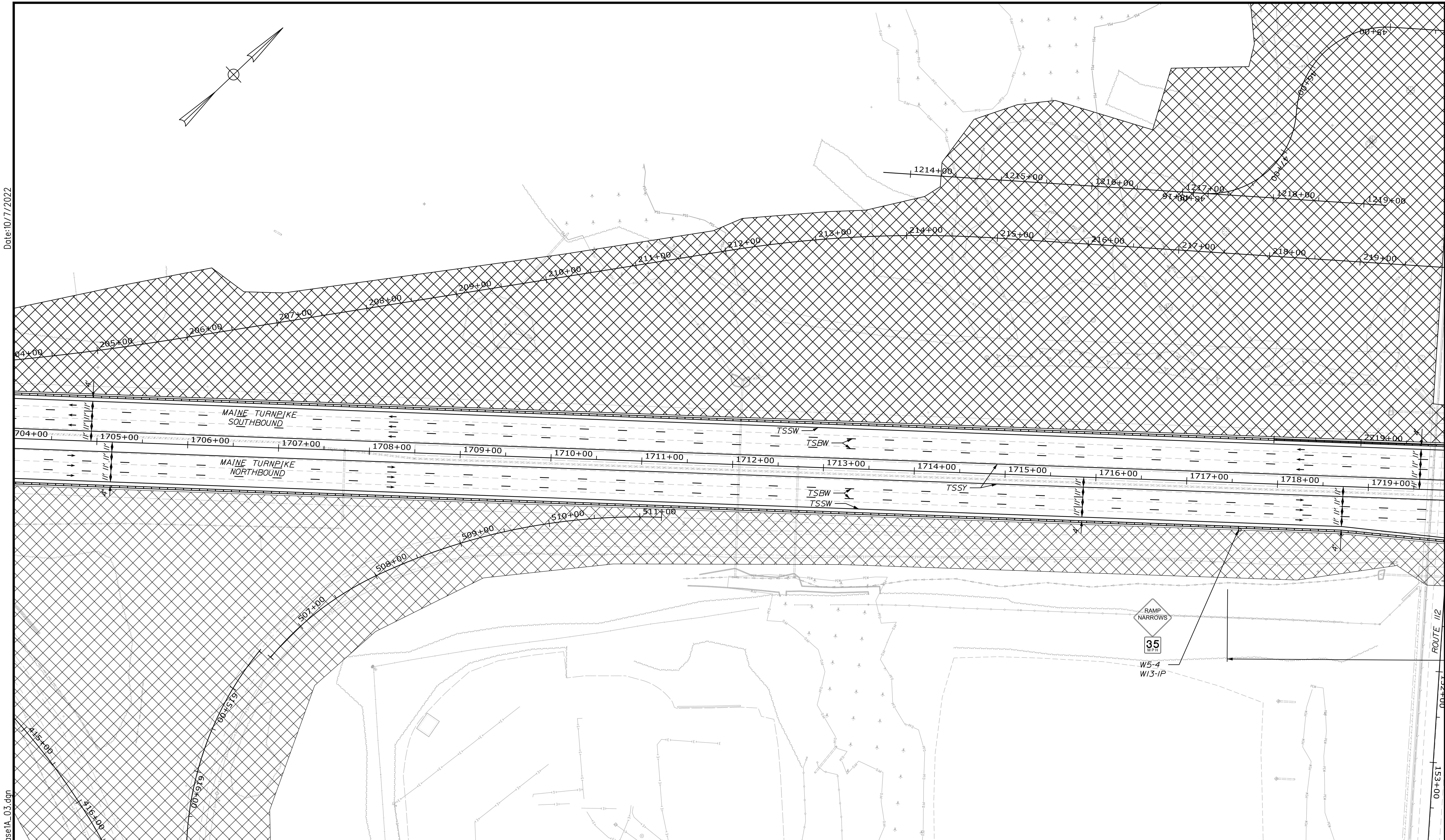
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	By	Date	Checked	By	Date
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: MOT-14  
35 OF 735

Date: 10/7/2022




Filename: ...MSTA\_MOT\_Phase1A\_03.dgn

Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

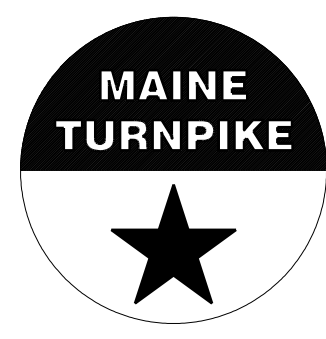
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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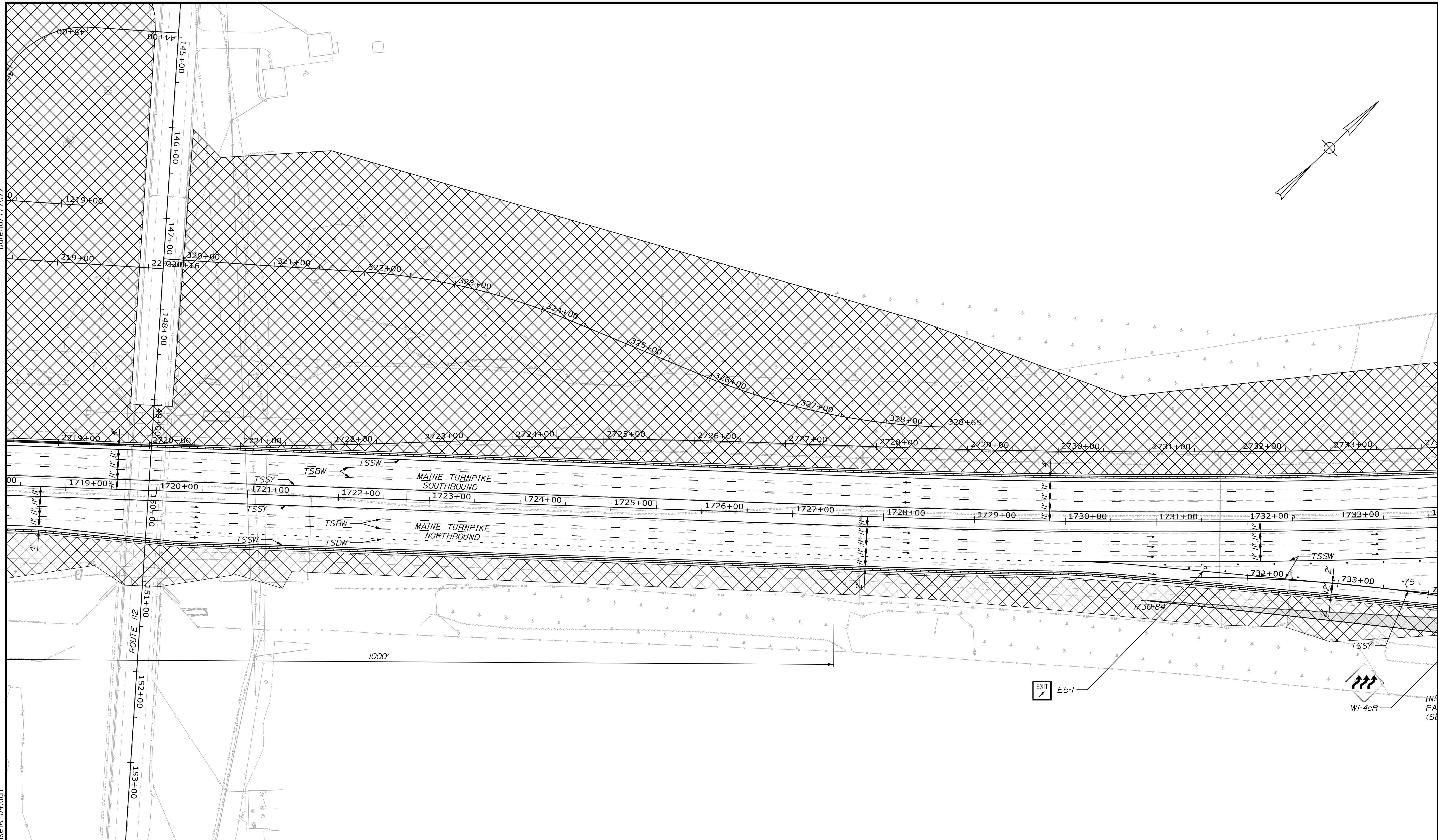
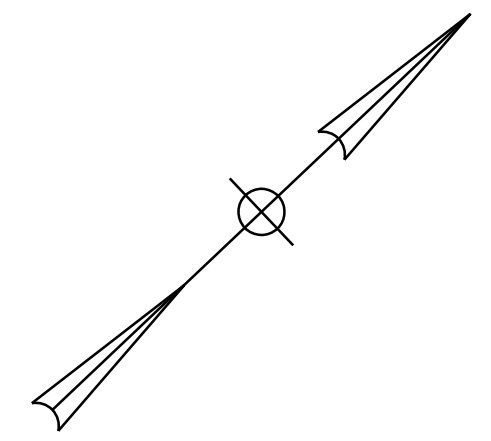
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
PLAN 3

SHEET NUMBER: MOT-15  
CONTRACT: 2022.07  
36 OF 735

Date: 10/7/2022



Filename: ...MSTA\_MOT\_Phase1A\_04.dgn

Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

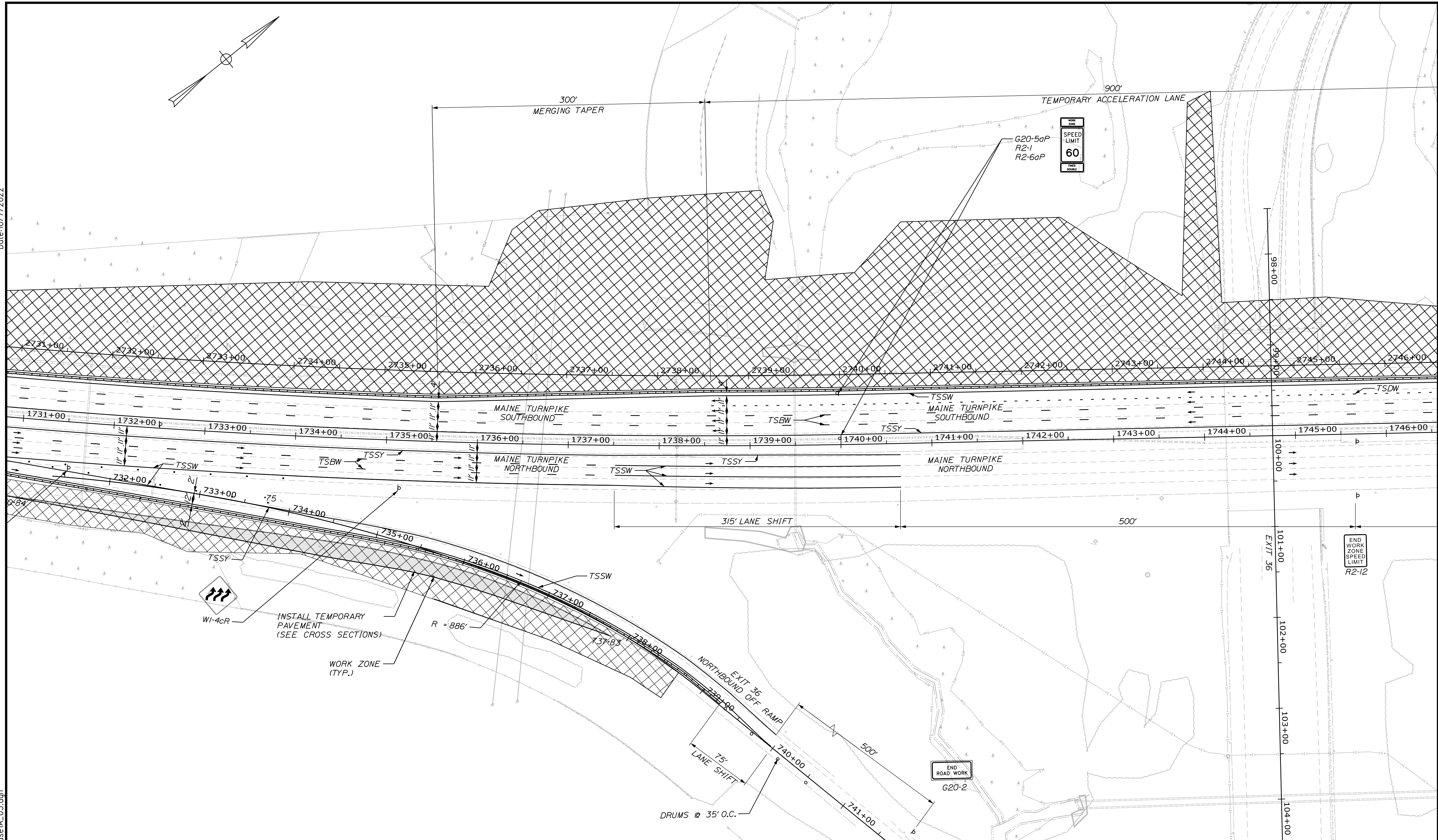
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
PLAN 4

SHEET NUMBER: MOT-16  
CONTRACT: 2022.07  
37 OF 735

Date: 10/7/2022

Filename: ...MSTA\_MOT\_Phase1A\_05.dgn



Scale: 1" = 50'

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1A  
 PLAN 5

SHEET NUMBER: MOT-17  
 38 OF 735

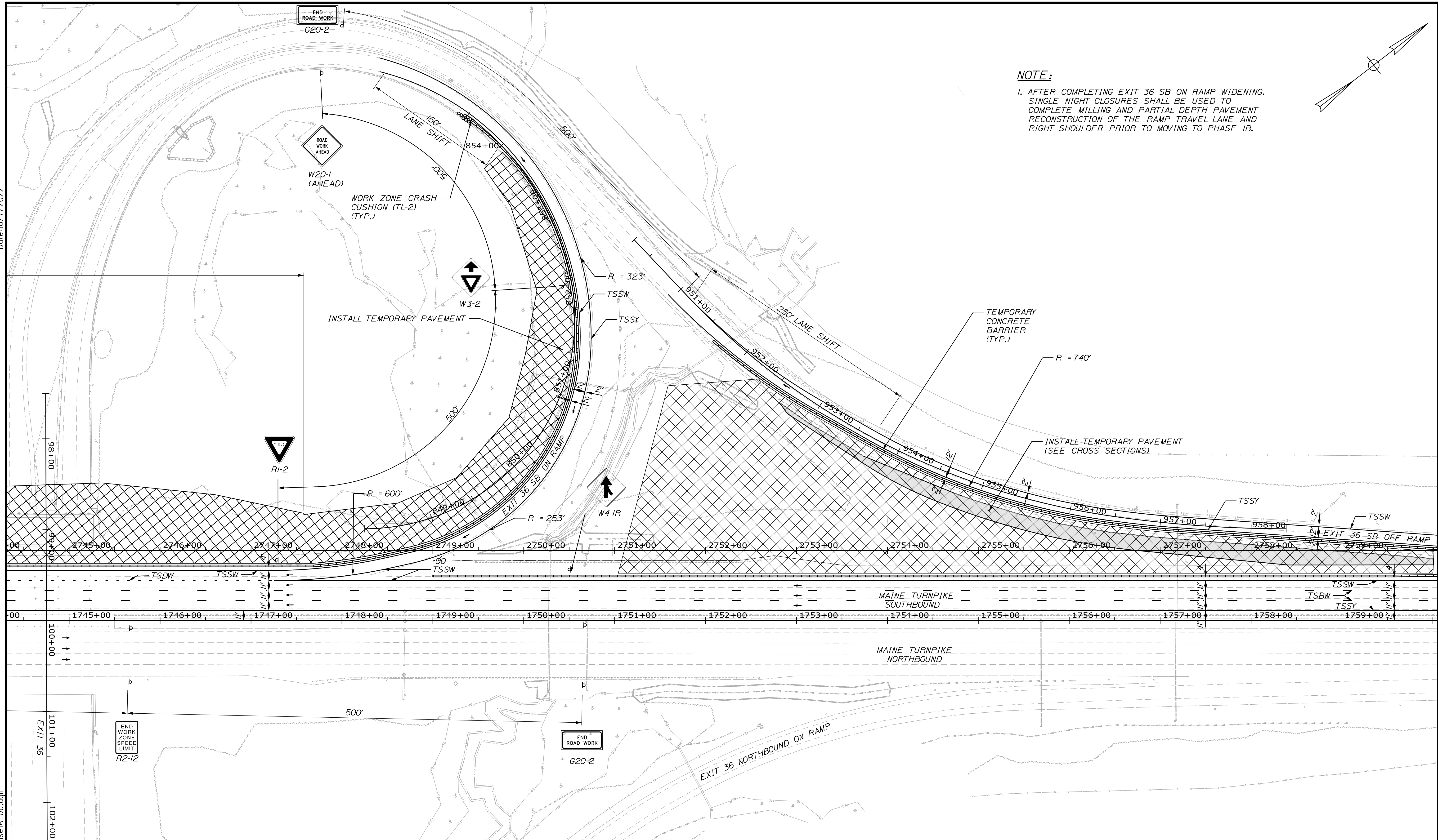
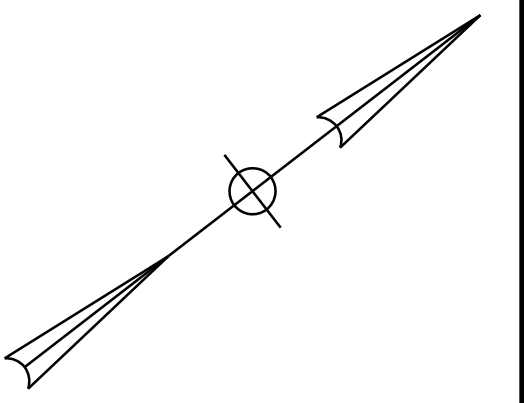
CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...MSTA\_MOT\_Phase1A\_06.dgn


**NOTE:**

1. AFTER COMPLETING EXIT 36 SB ON RAMP WIDENING, SINGLE NIGHT CLOSURES SHALL BE USED TO COMPLETE MILLING AND PARTIAL DEPTH PAVEMENT RECONSTRUCTION OF THE RAMP TRAVEL LANE AND RIGHT SHOULDER PRIOR TO MOVING TO PHASE 1B.



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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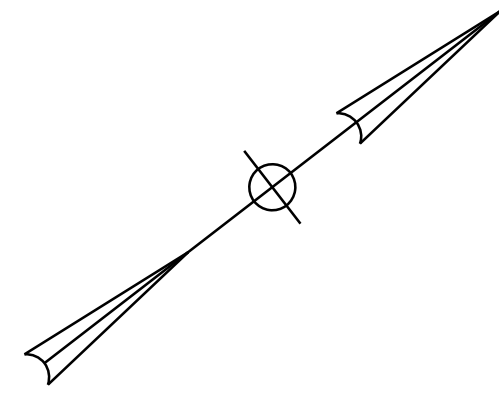
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
PLAN 6

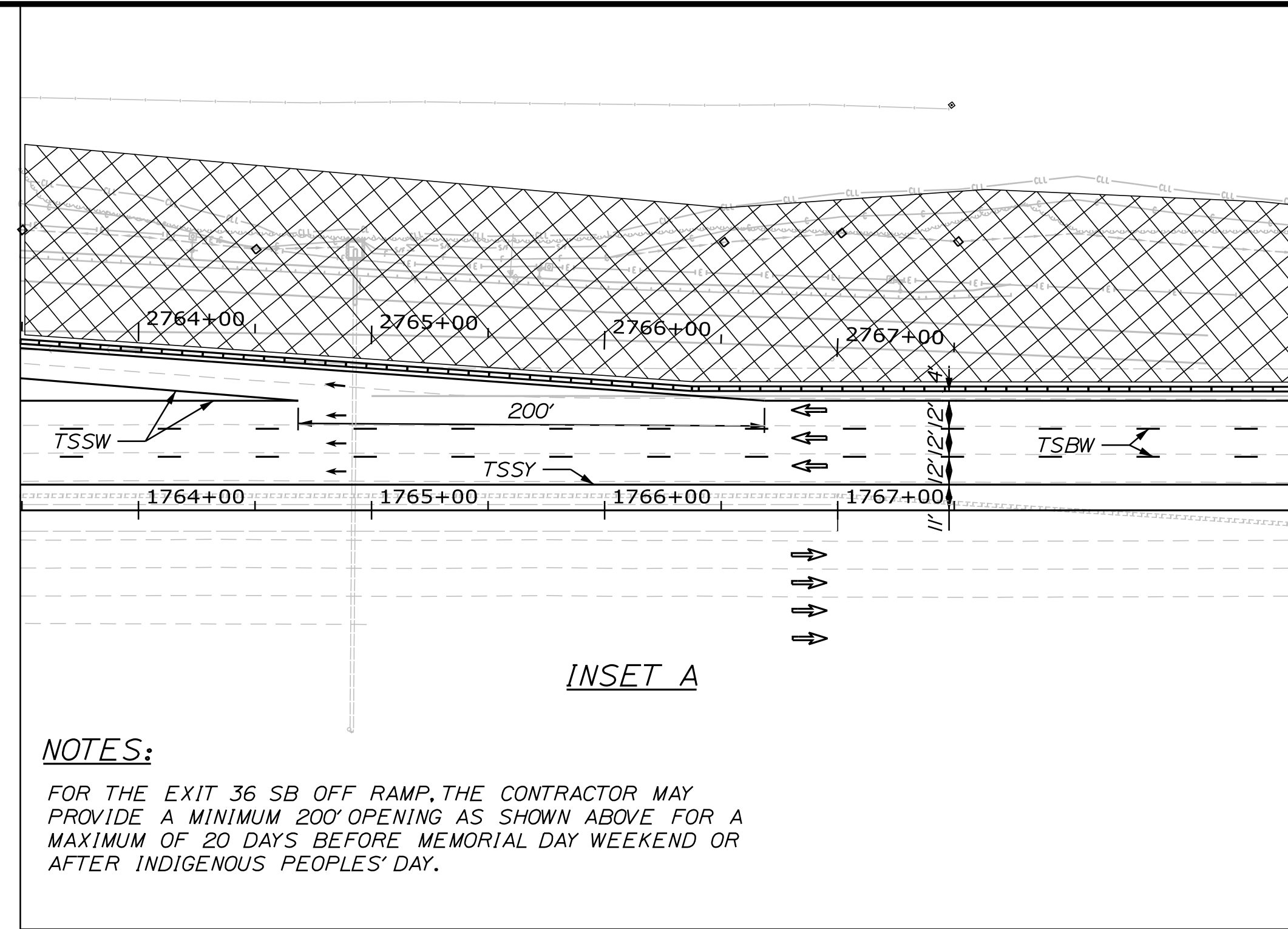
SHEET NUMBER: MOT-18  
CONTRACT: 2022.07  
39 OF 735

Date: 10/17/2022



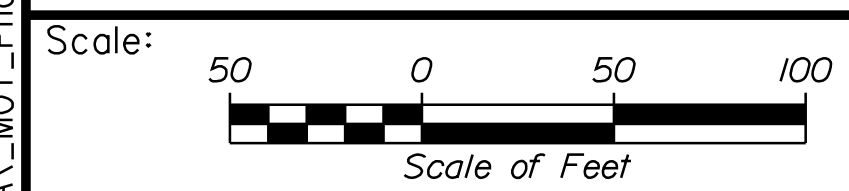
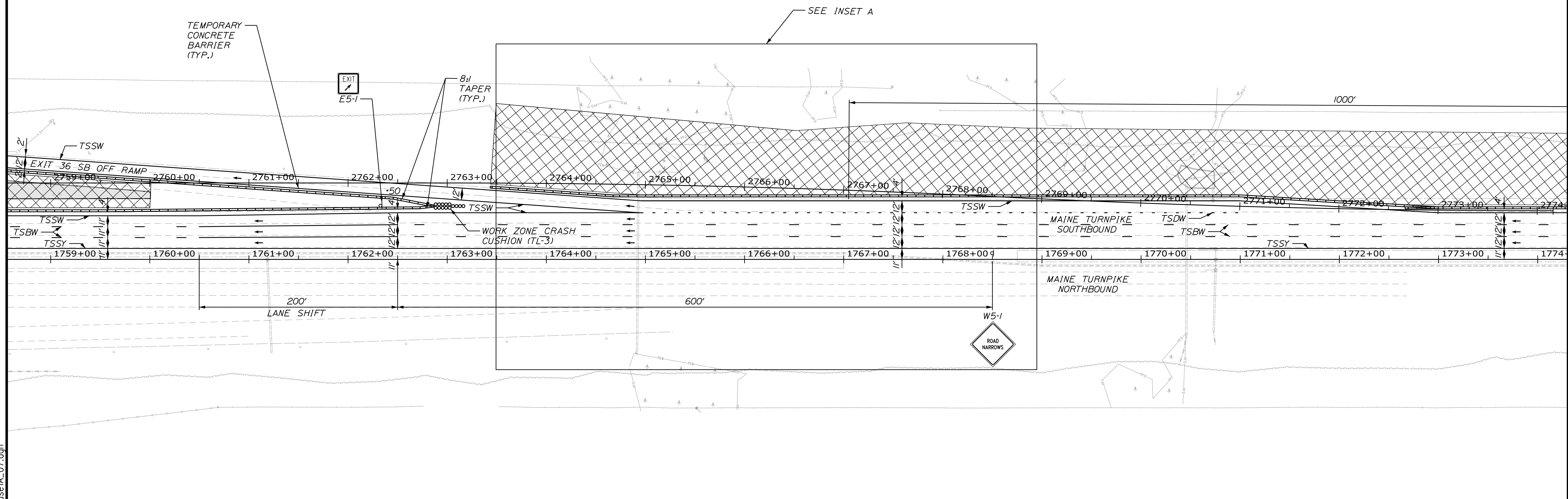
**NOTES:**

1. WORK FOR MILL AND PAVE OPERATIONS BETWEEN 1749+00 AND 1760+00 SHALL BE DONE WITH LANE CLOSURES AT NIGHT. REFER TO THE 652 SPECIFICATIONS FOR LIMITATIONS
2. WORK ASSOCIATED WITH THE EXIT 36 SB OFF RAMP ON THE RIGHT AND LEFT SIDE SHALL NOT OCCUR SIMULTANEOUSLY. CONTRACTOR SHALL STAGE WORK ACCORDINGLY.



**NOTES:**

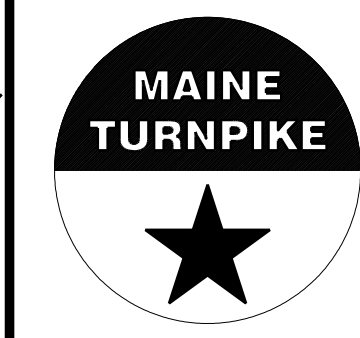
FOR THE EXIT 36 SB OFF RAMP, THE CONTRACTOR MAY PROVIDE A MINIMUM 200' OPENING AS SHOWN ABOVE FOR A MAXIMUM OF 20 DAYS BEFORE MEMORIAL DAY WEEKEND OR AFTER INDIGENOUS PEOPLES' DAY.



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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1A  
 PLAN 7**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date	Checked	By	Date
Designed	JRH	10\22	PLP	10\22	
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

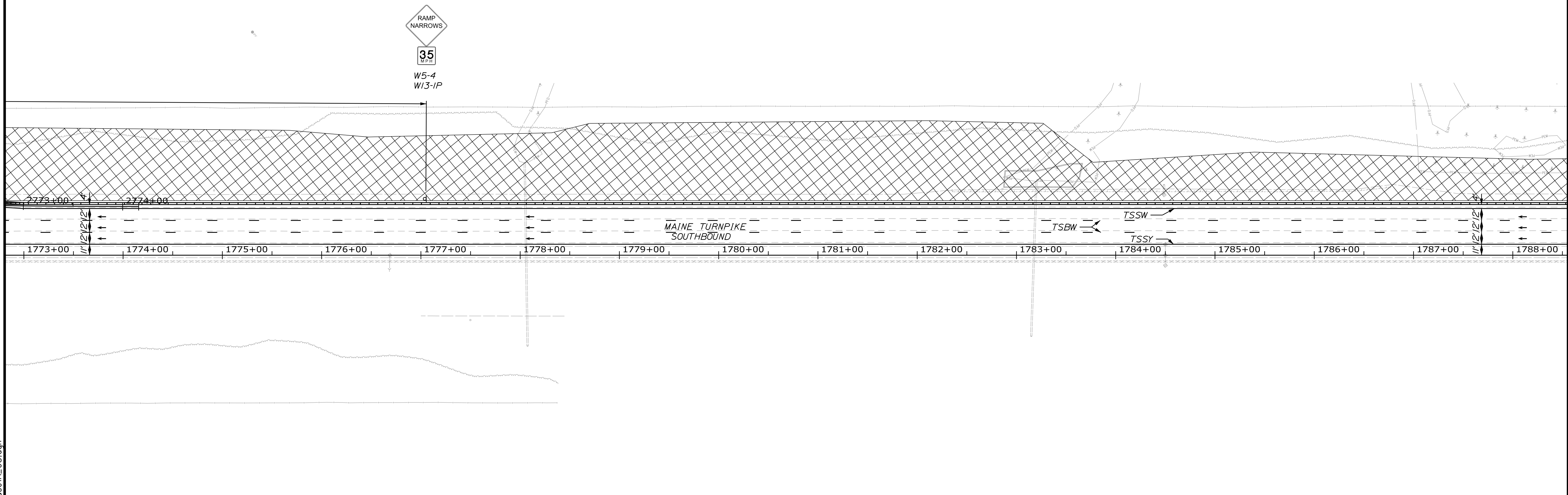
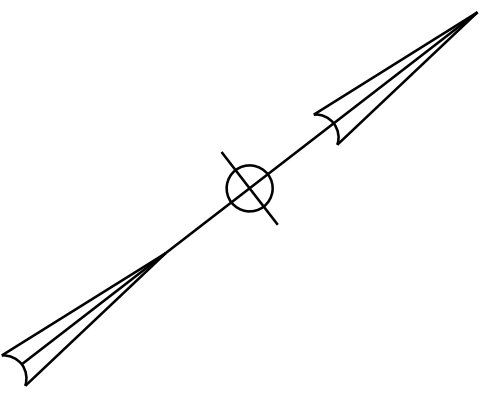
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40 OF 735

Filename: ...MSTA\_MOT\_Phase1A\_07.dgn



Date: 10/17/2022



Filename: ...MSTA\_MOT\_Phase1A\_08.dgn

Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

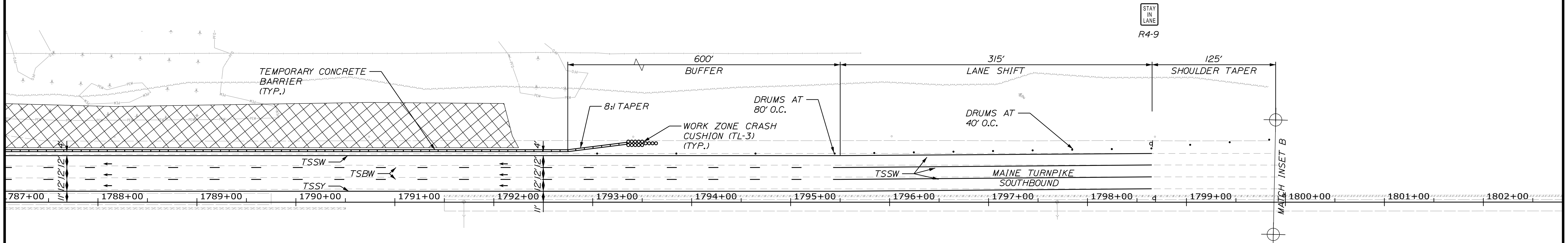
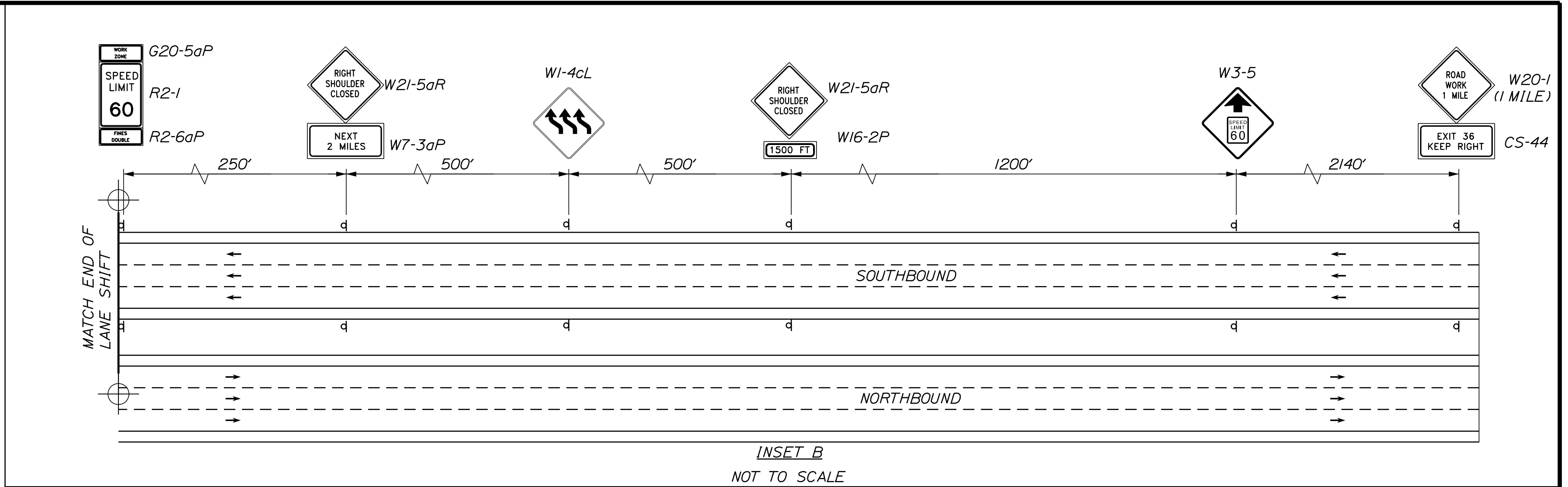
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
PLAN 8

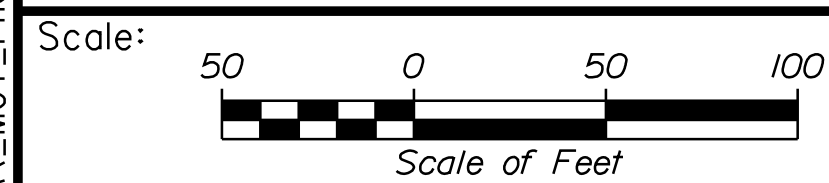
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41 OF 735

CONTRACT: 2022.07

Date: 10/17/2022



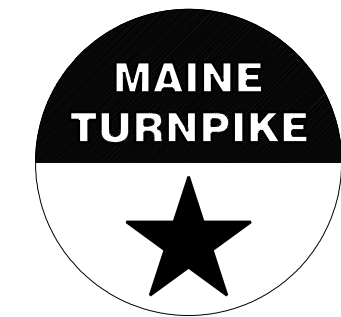
Filename: ...MSTA\_MOT\_Phase1A\_09.dgn



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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
PLAN 9

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	By	Date	Checked	By	Date
	JRH	10\22		PLP	10\22
Drawn	By	Date	In Charge of	By	Date
	CHL	10\22		LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

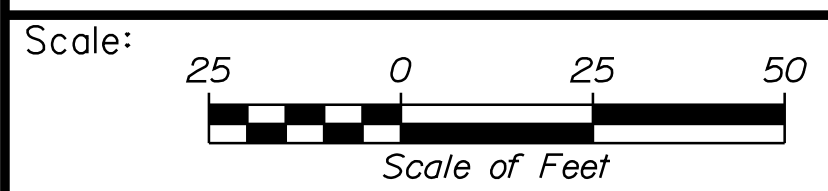
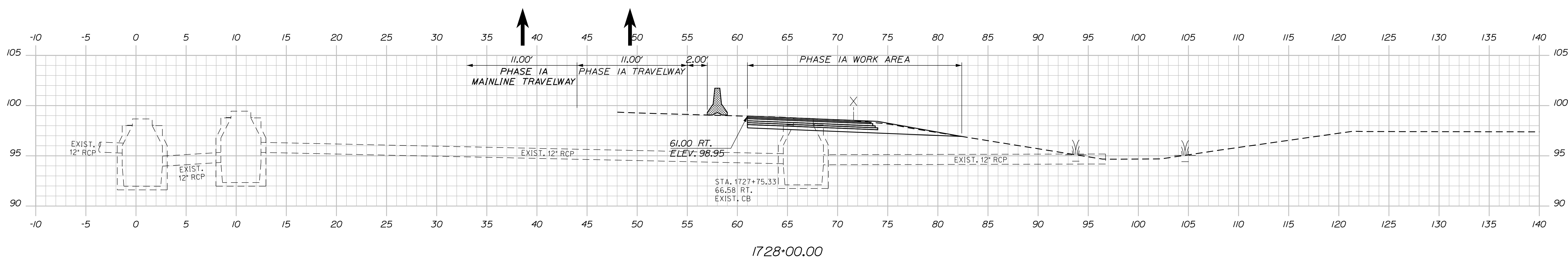
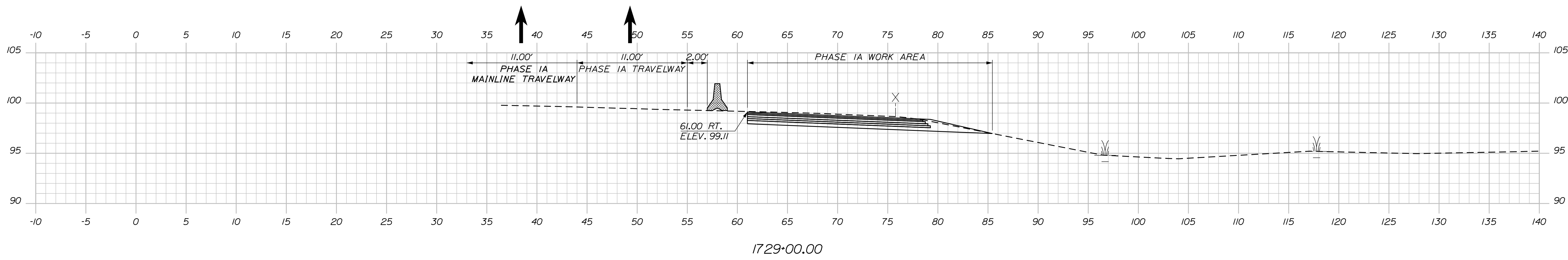
CONTRACT: 2022.07

SHEET NUMBER: MOT-21

42 OF 735

Date: 10/7/2022

Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



Designed by:

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

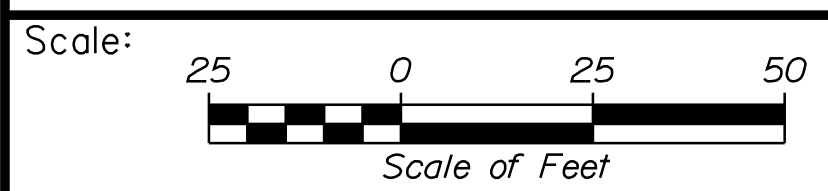
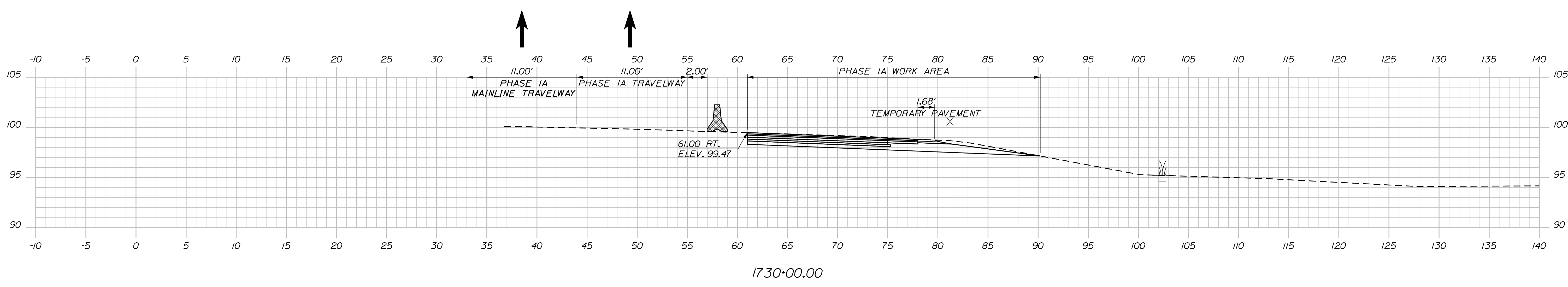
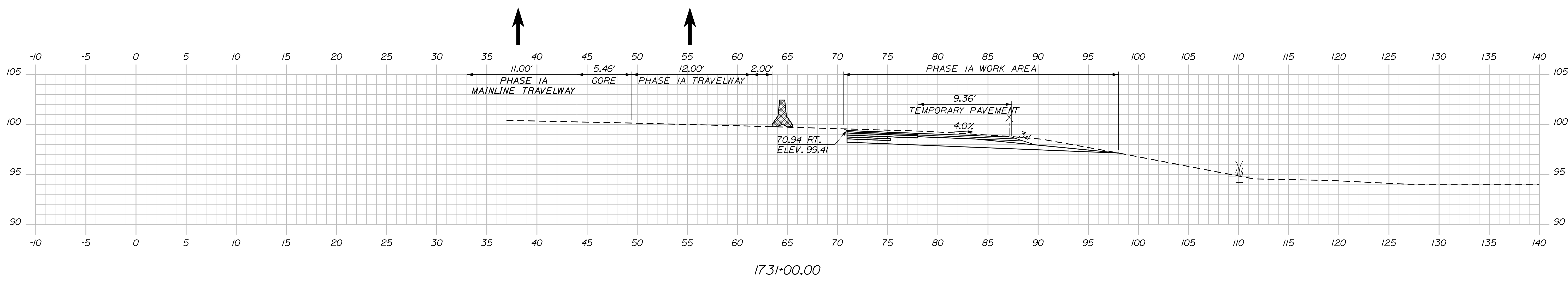
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
MAINLINE AT EXIT 36 NB OFF RAMP

SHEET NUMBER: MOTXS-01  
43 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...00\HIGHWAY\MSTA\M0T\_xsect.dgn



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

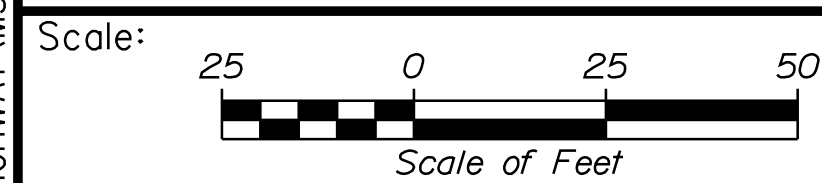
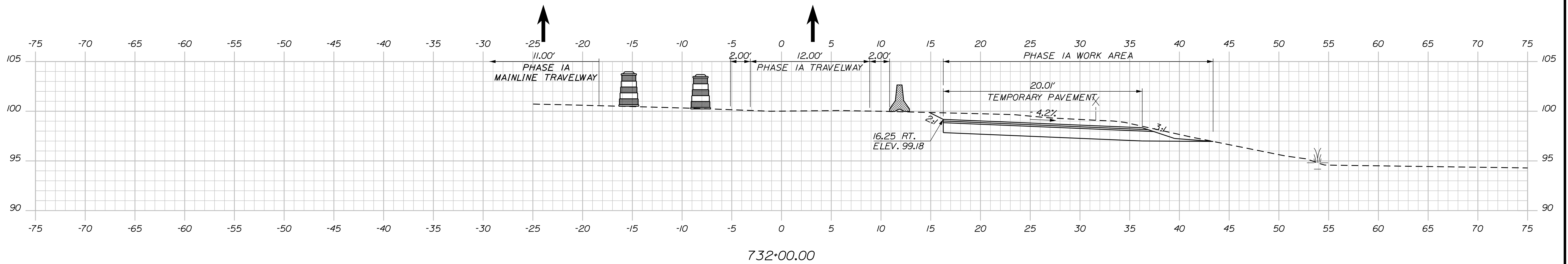
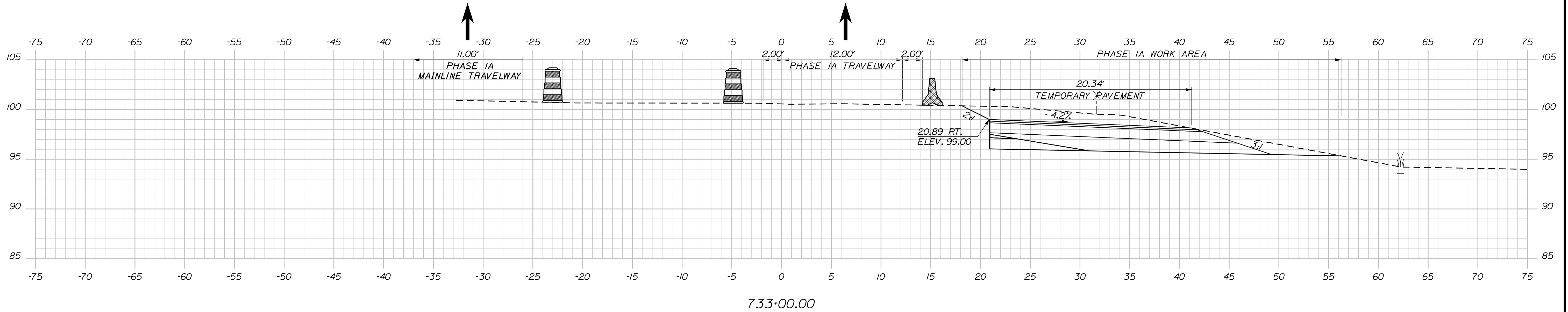
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
MAINLINE AT EXIT 36 NB OFF RAMP

SHEET NUMBER: MOTXS-02  
CONTRACT: 2022.07  
44 OF 735

Date: 10/7/2022

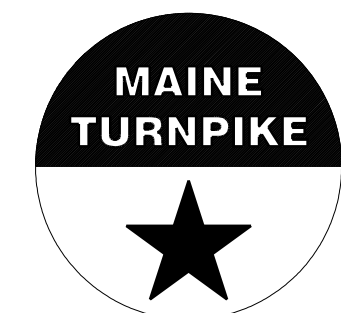
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THE GOLD STAR  
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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
EXIT 36 NB OFF RAMP

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

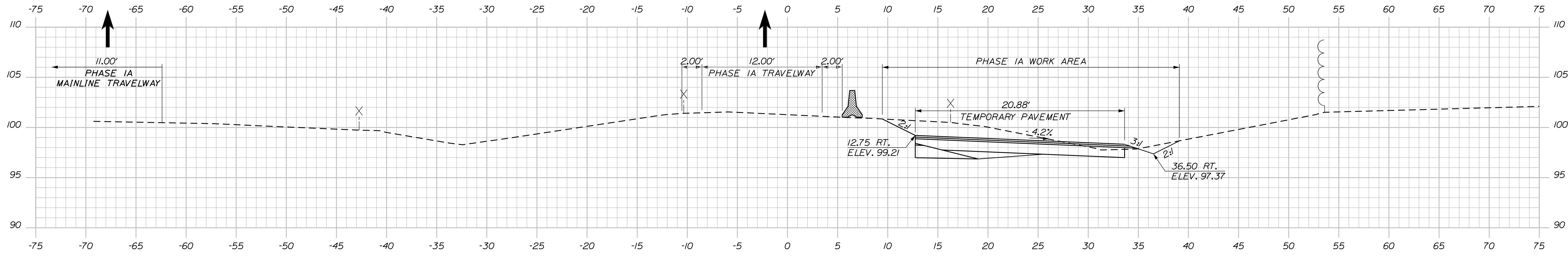
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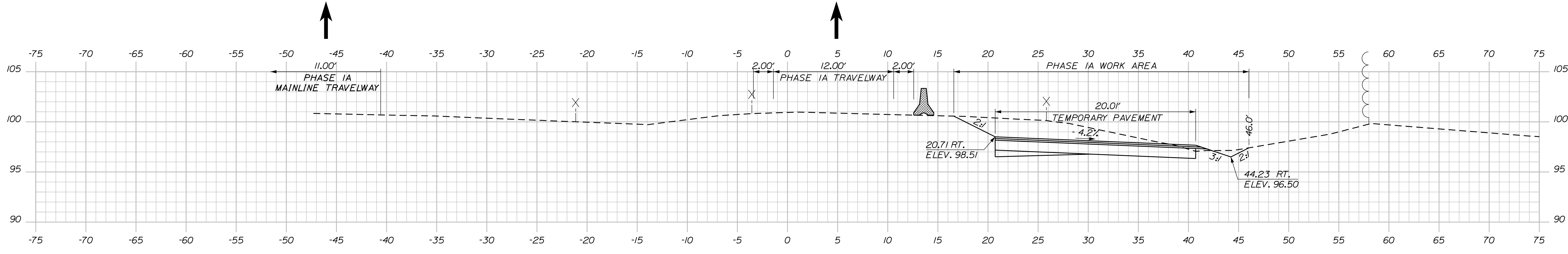
45 OF 735

Date: 10/17/2022

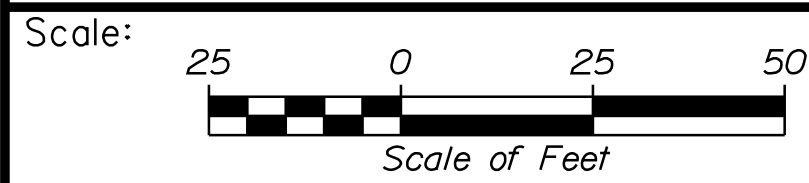
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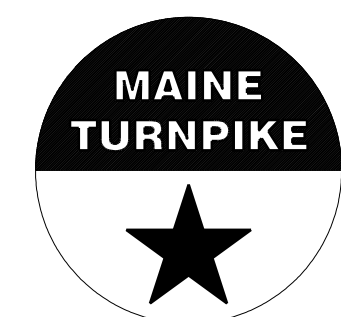
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
EXIT 36 NB OFF RAMP

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

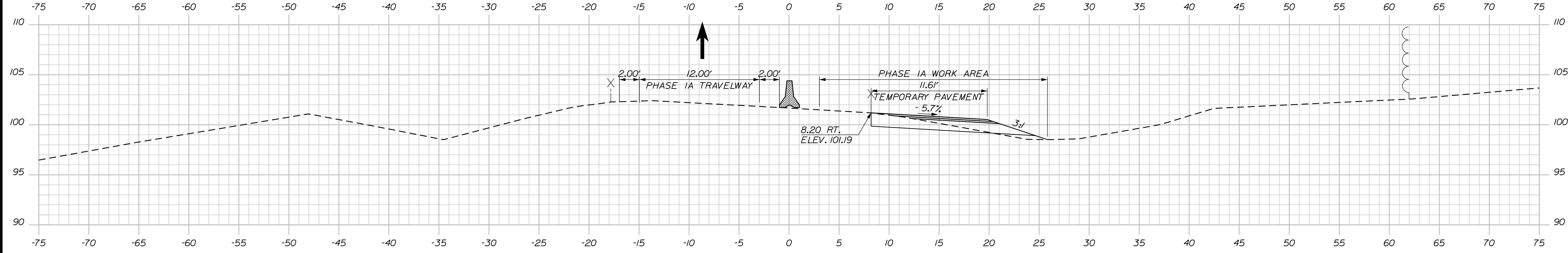
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

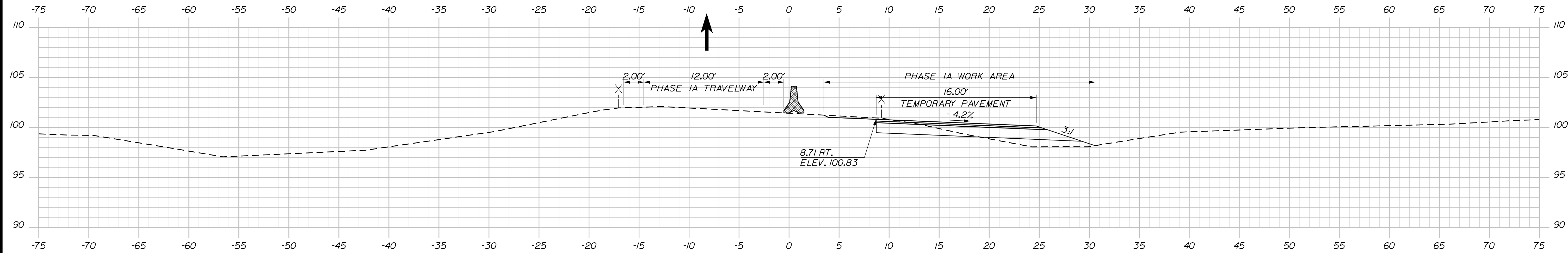
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46 OF 735

Date: 10/17/2022

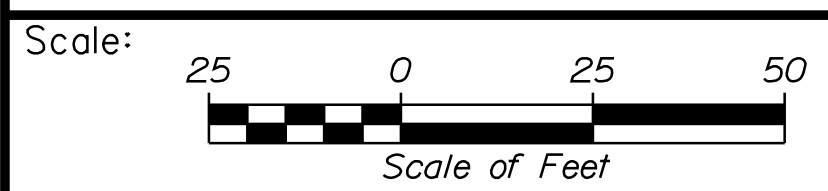


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736+00.00

Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

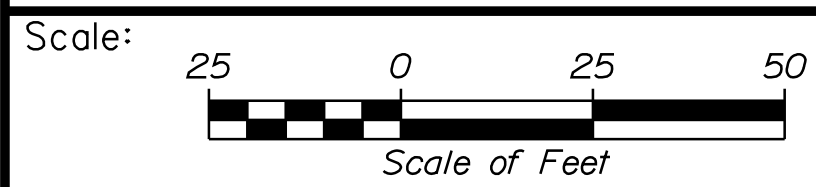
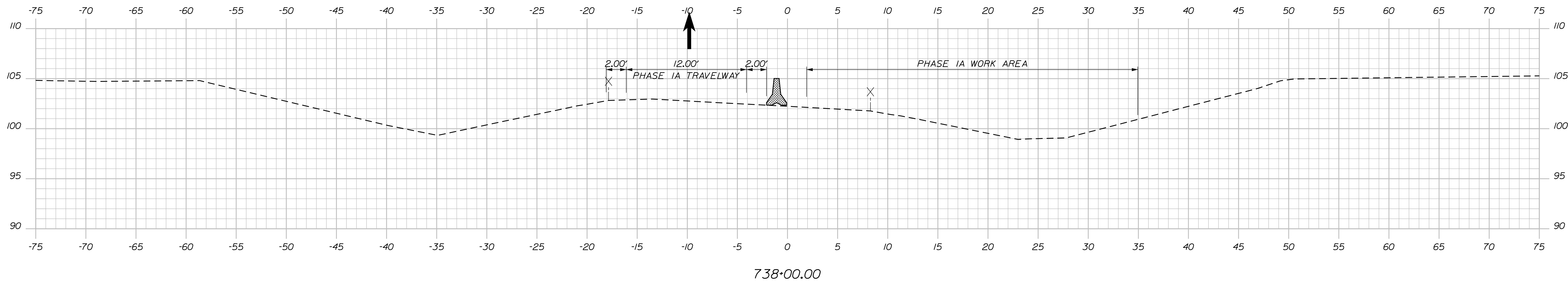
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1A  
 EXIT 36 NB OFF RAMP

SHEET NUMBER: MOTXS-05  
 47 OF 735

CONTRACT: 2022.07

Date: 10/7/2022

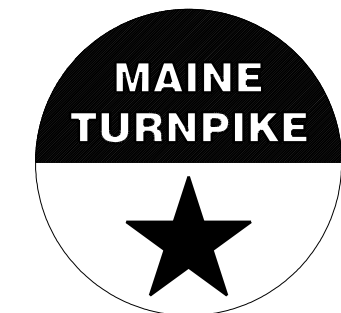
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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
EXIT 36 NB OFF RAMP

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

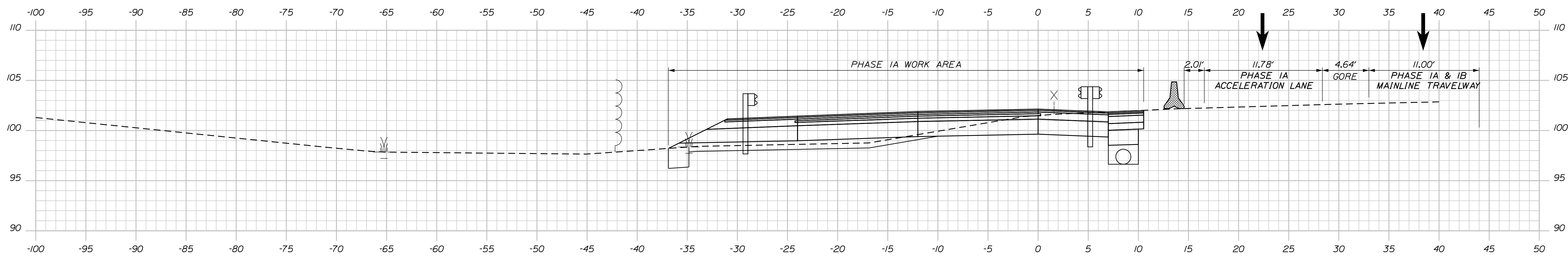
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48 OF 735

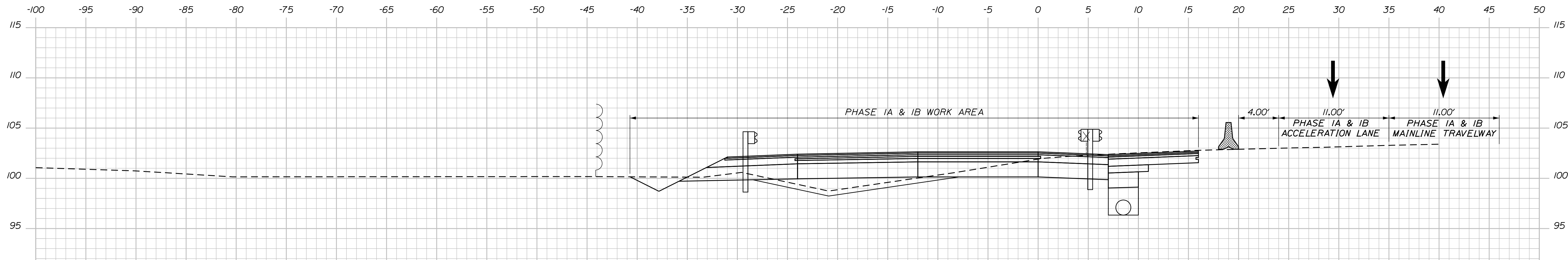


Date: 10/17/2022

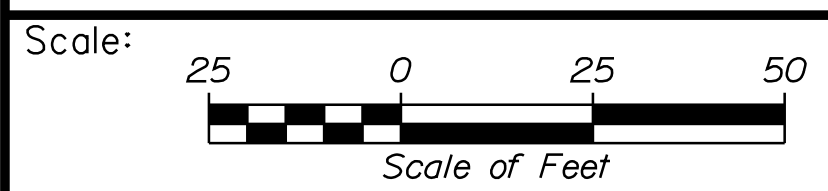
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2748+00.00



2747+00.00



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date	By	Date

Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

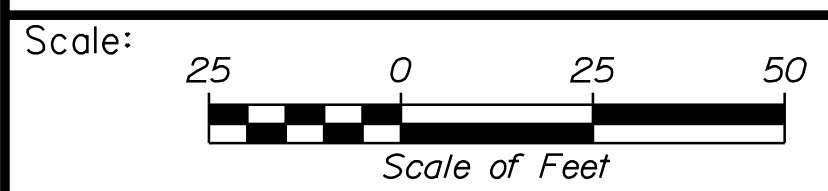
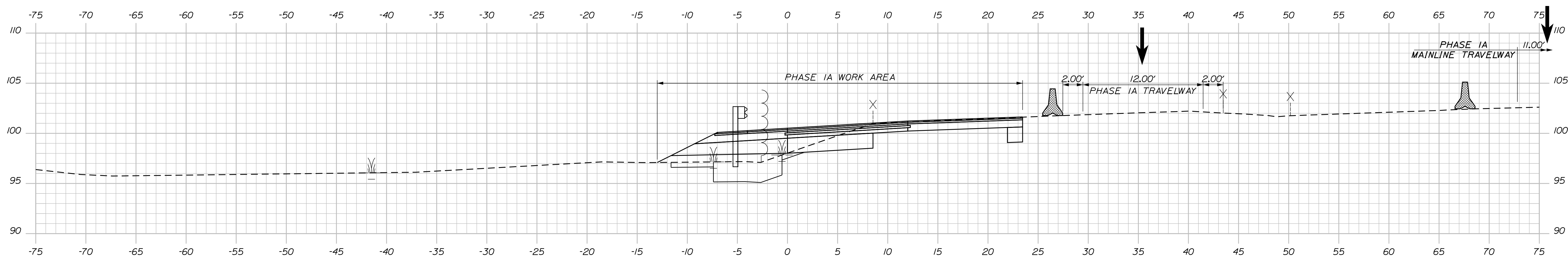
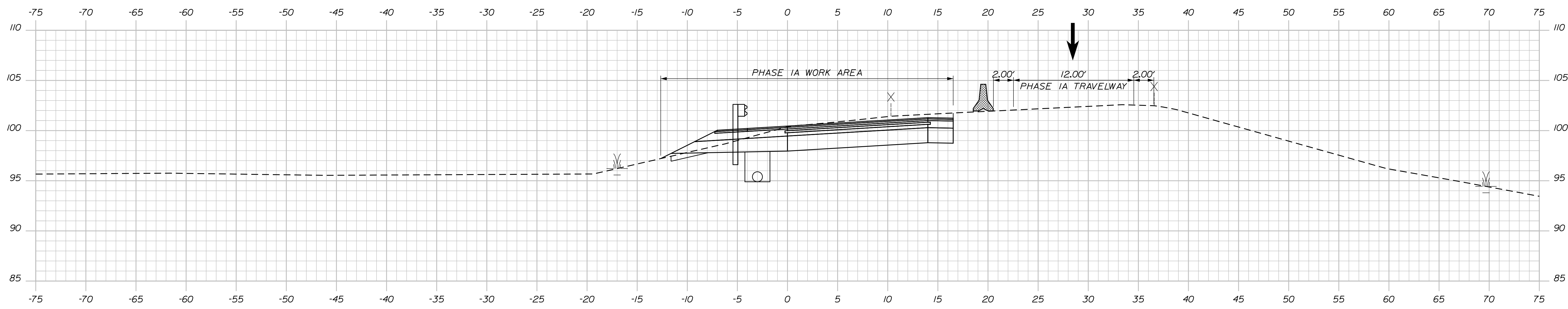
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
CD ROADWAY AT EXIT 36 SB ON RAMP

SHEET NUMBER: MOTXS-07  
CONTRACT: 2022.07  
49 OF 735

Date: 10/7/2022

Filename: ... \00\HIGHWAY\MSTA\M0T\_xsect.dgn



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

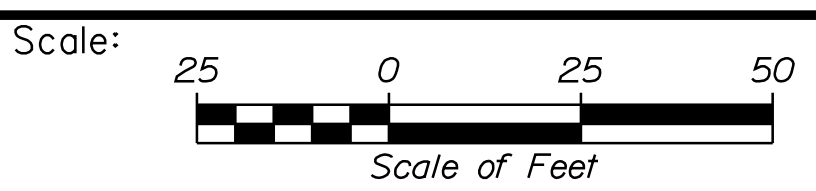
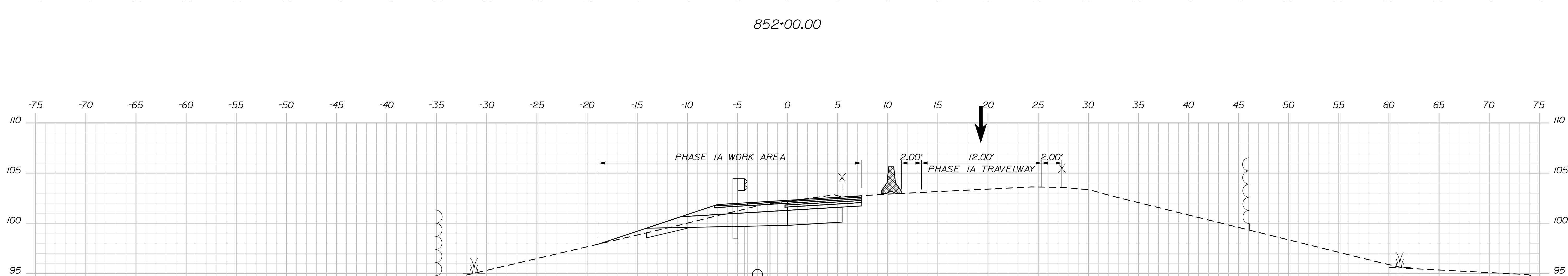
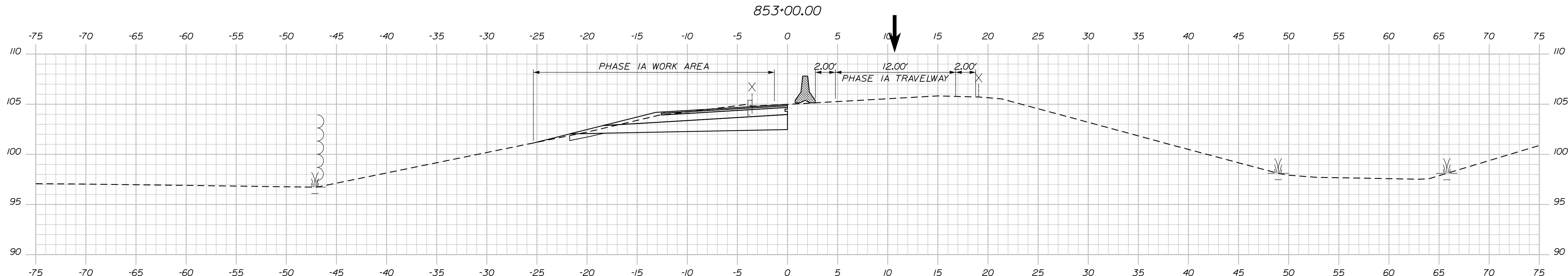
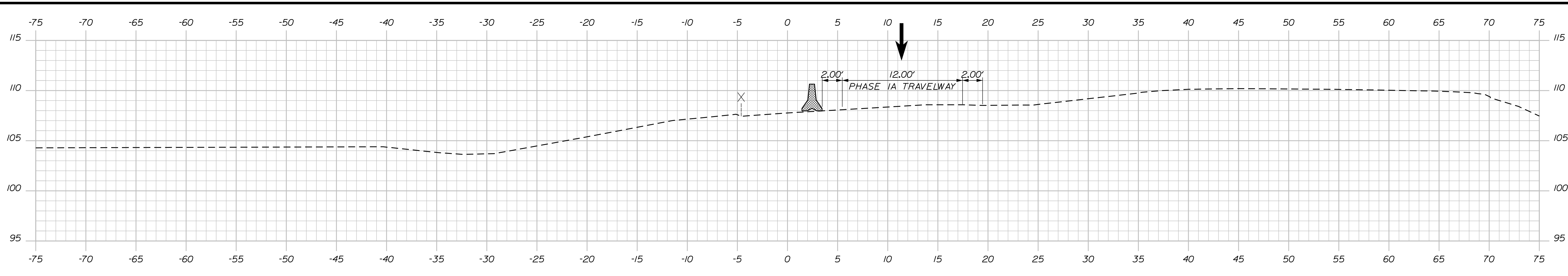
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
EXIT 36 SB ON RAMP

SHEET NUMBER: MOTXS-08  
CONTRACT: 2022.07  
50 OF 735

Date: 10/17/2022

Filename: ...:\00.HIGHWAY\MSTA\MOT\_xsect.dgn



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

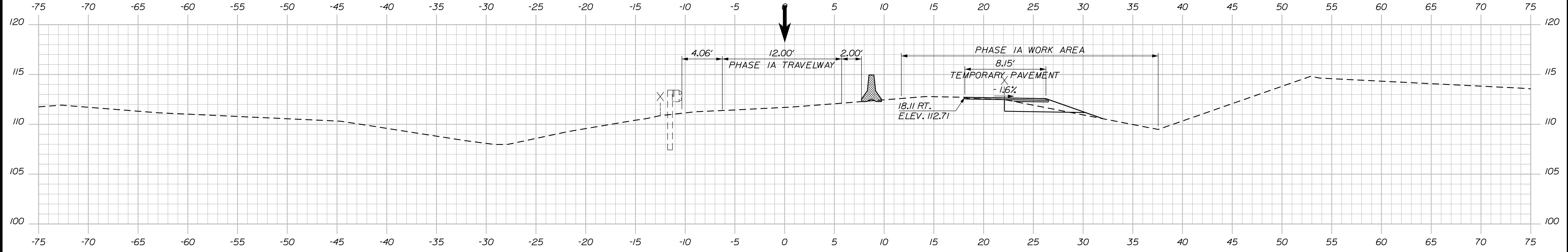
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1A  
 EXIT 36 SB ON RAMP

SHEET NUMBER: MOTXS-09  
 51 OF 735

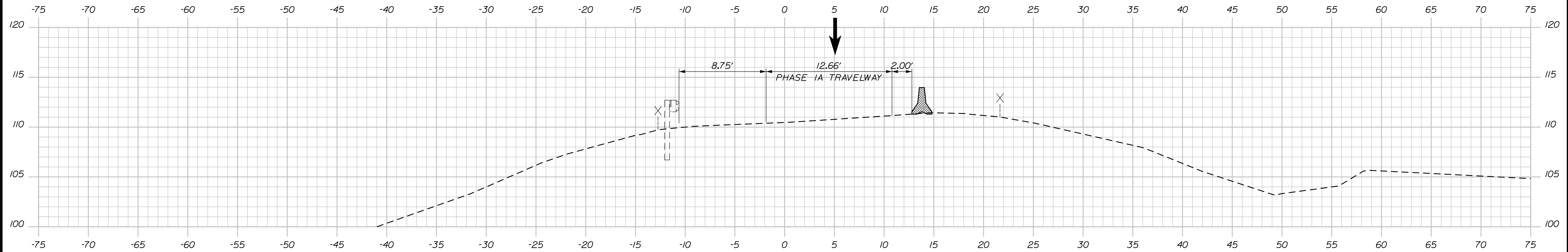
CONTRACT: 2022.07

Date: 10/17/2022

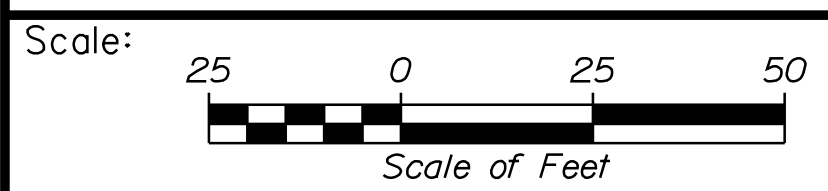
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953+00.00



952+00.00



No.	Revision	By	Date

Designed by:

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

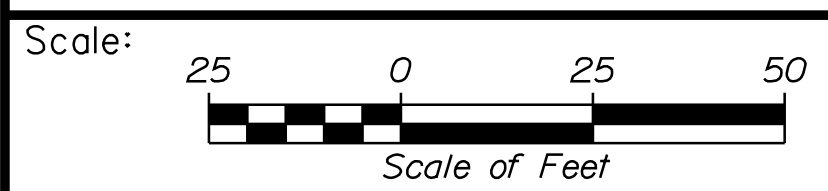
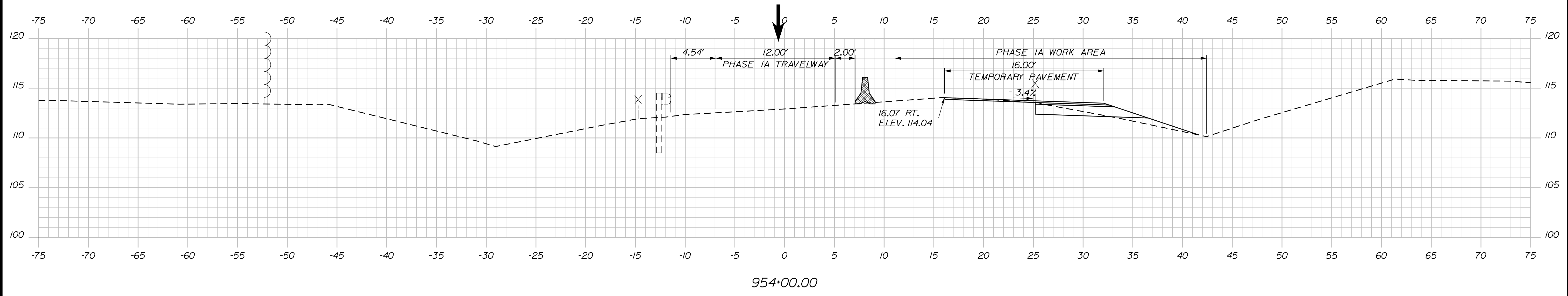
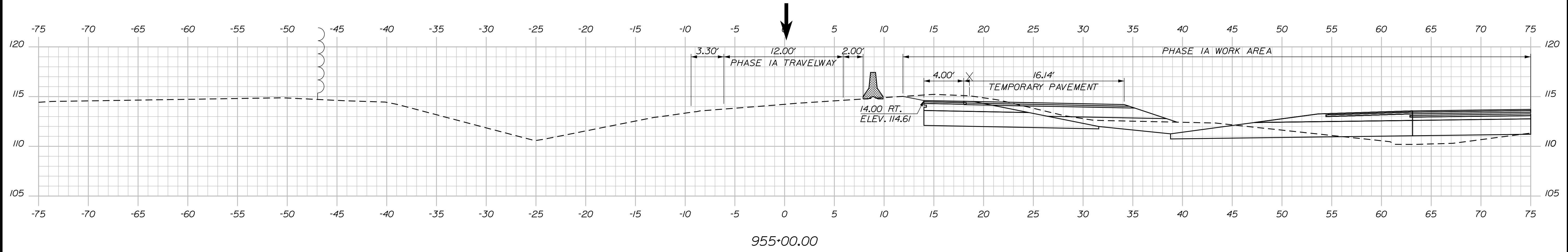
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1A  
 EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-10  
 52 OF 735

CONTRACT: 2022.07


Date: 10/7/2022

Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
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Drawn	CHL	10\22	In Charge of	LEM	10\22

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

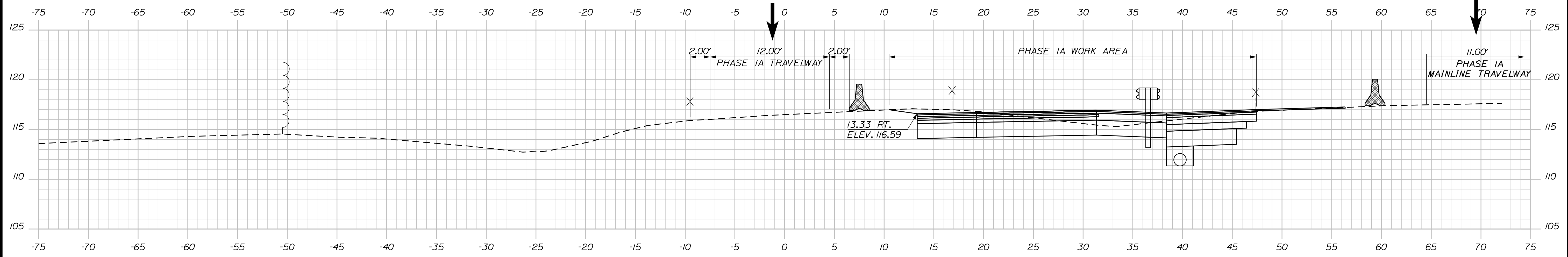
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 MAINTENANCE OF TRAFFIC - PHASE 1A  
 EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-11  
 53 OF 735

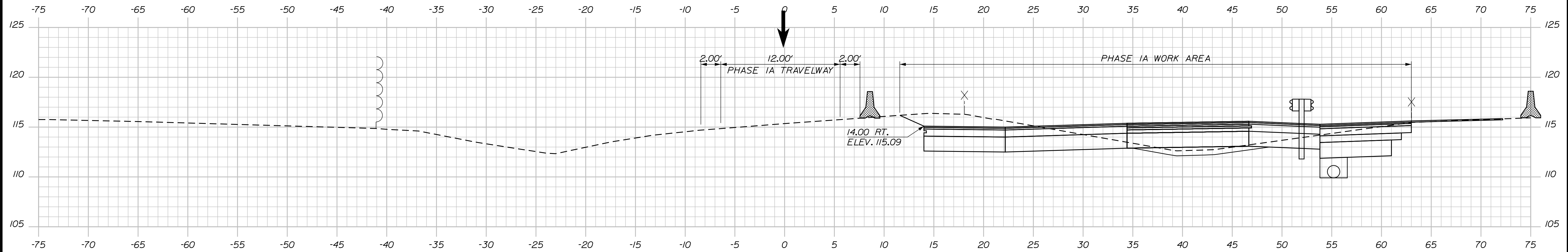
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Date: 10/17/2022

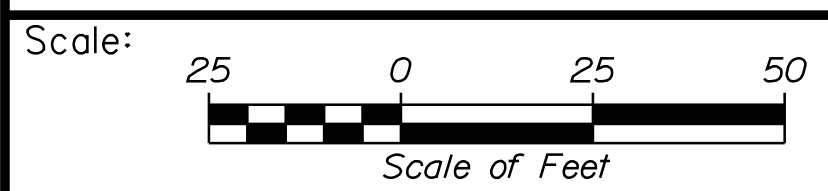
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957+00.00



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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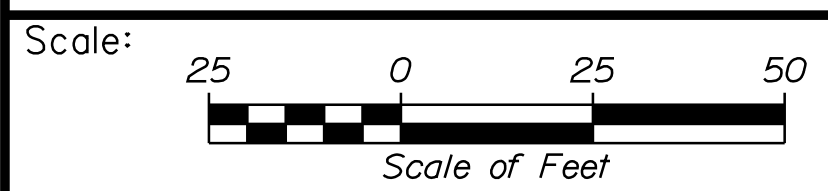
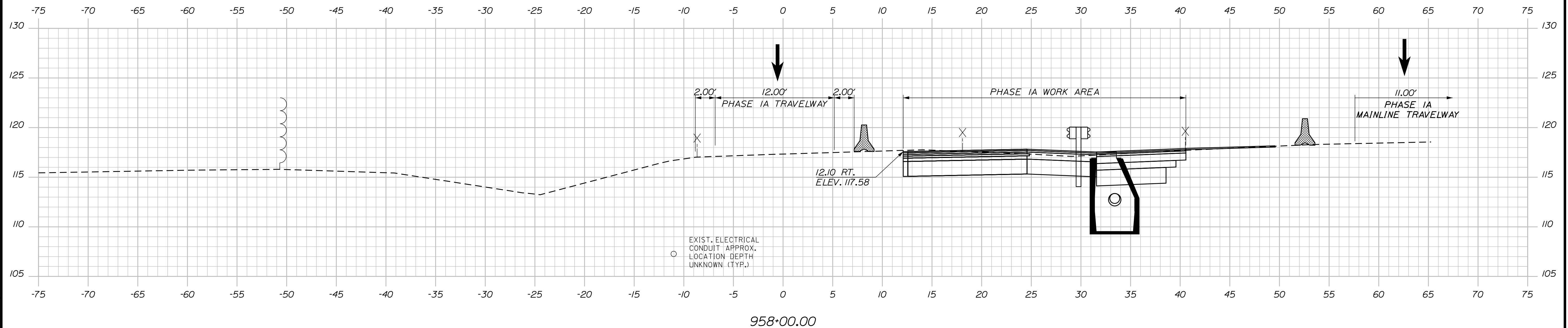
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SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-12  
54 OF 735

CONTRACT: 2022.07

Date: 10/7/2022

Filename: ...:\00.HIGHWAY\MSTA\M0T\_xsect.dgn



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**MAINE TURNPIKE**

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

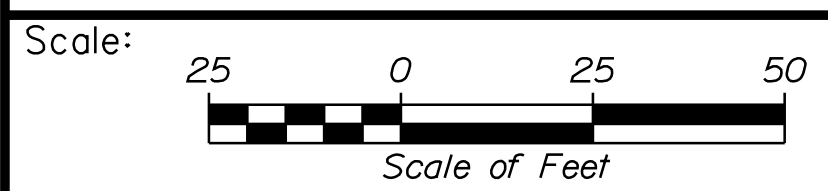
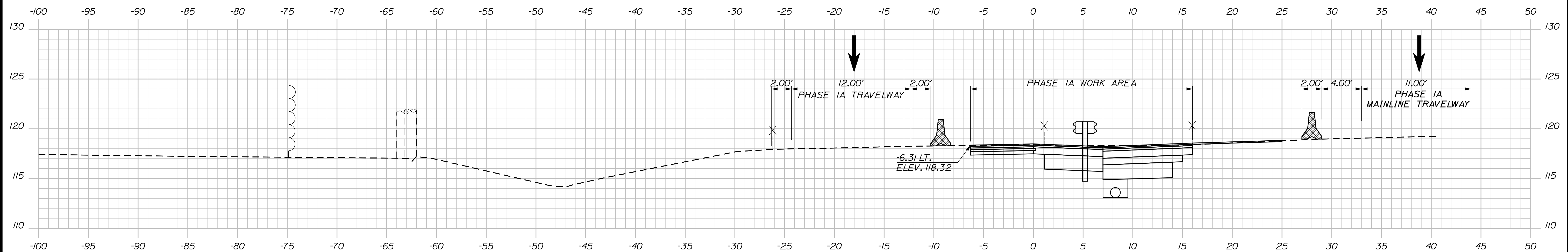
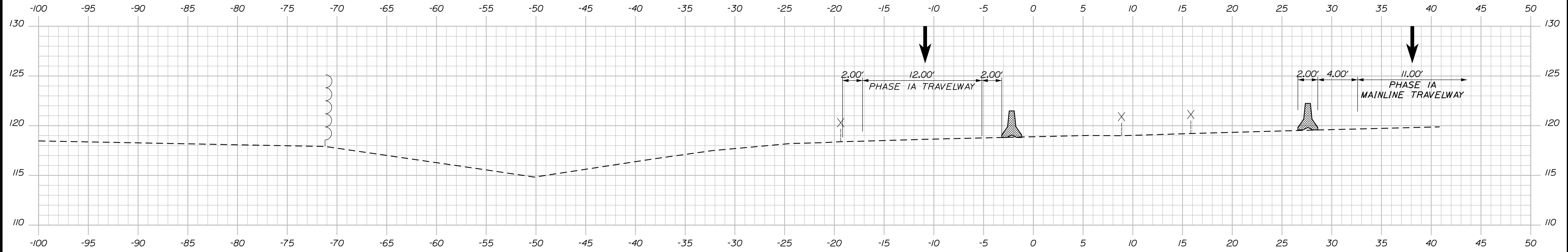
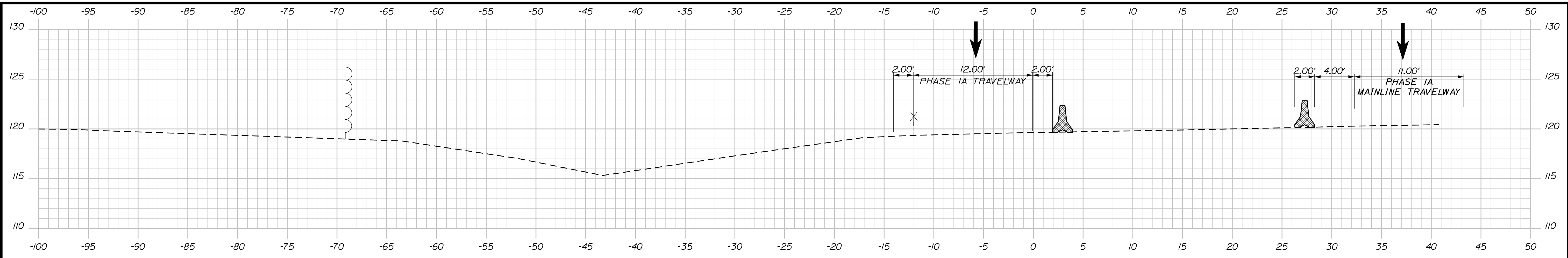
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1A  
 EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-13  
 55 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\MOT\_xsect.dgn



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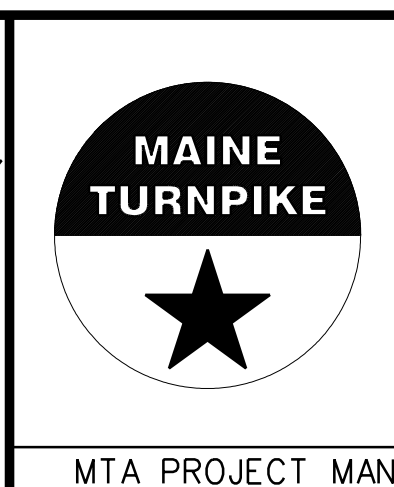
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Designed	JRH	10\22	Checked	PLP	10\22
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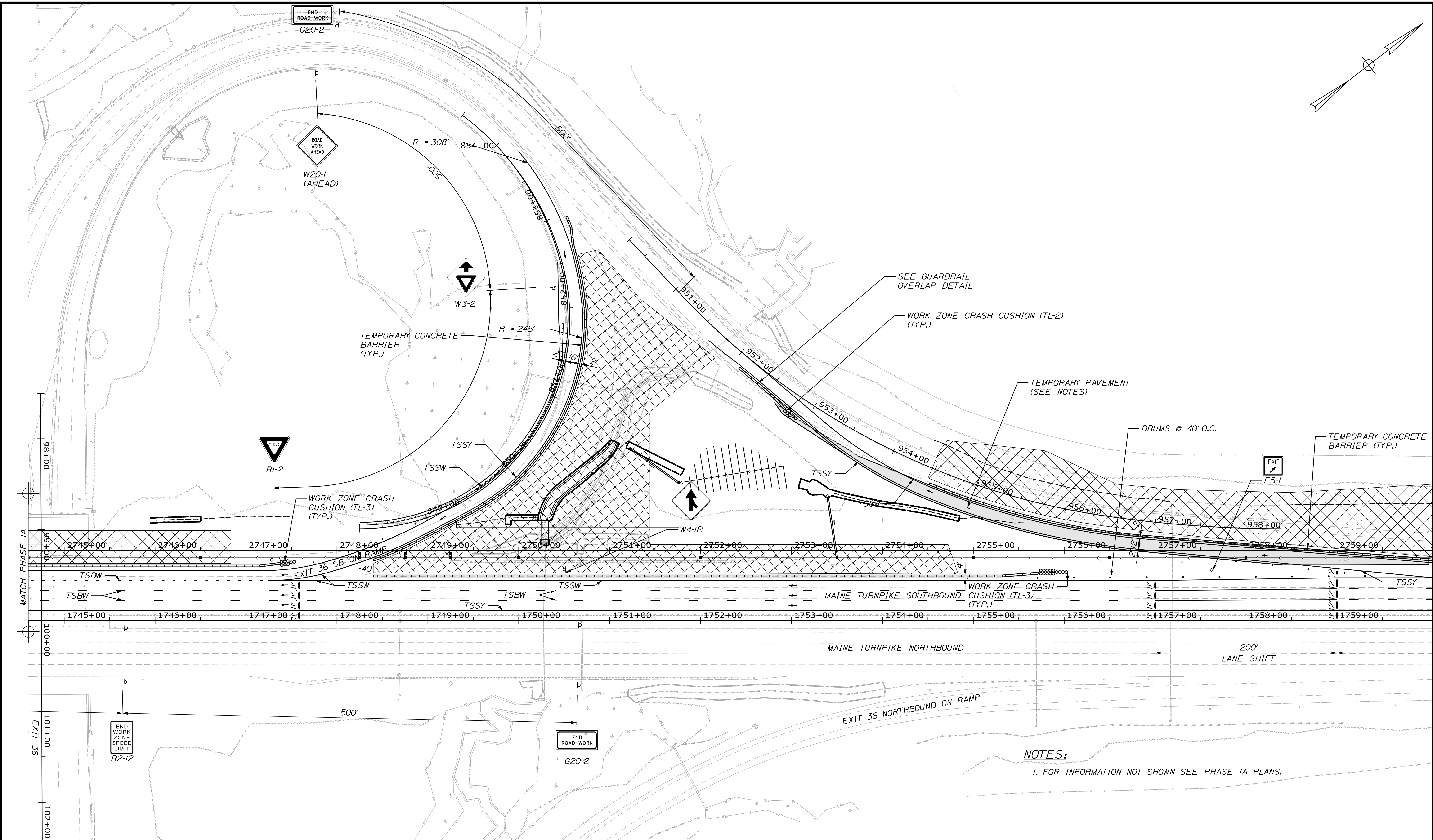
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1A  
CD ROADWAY AT EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-14  
CONTRACT: 2022.07  
56 OF 735



Date: 10/17/2022


Filename: ...MSTA\_MOT\_Phase1B\_01.dgn



Scale: 50 0 50 100  
 Scale of Feet

No.	Revision	By	Date

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Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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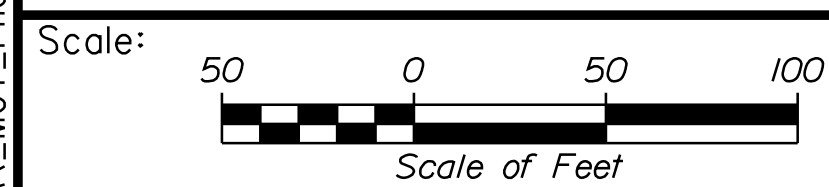
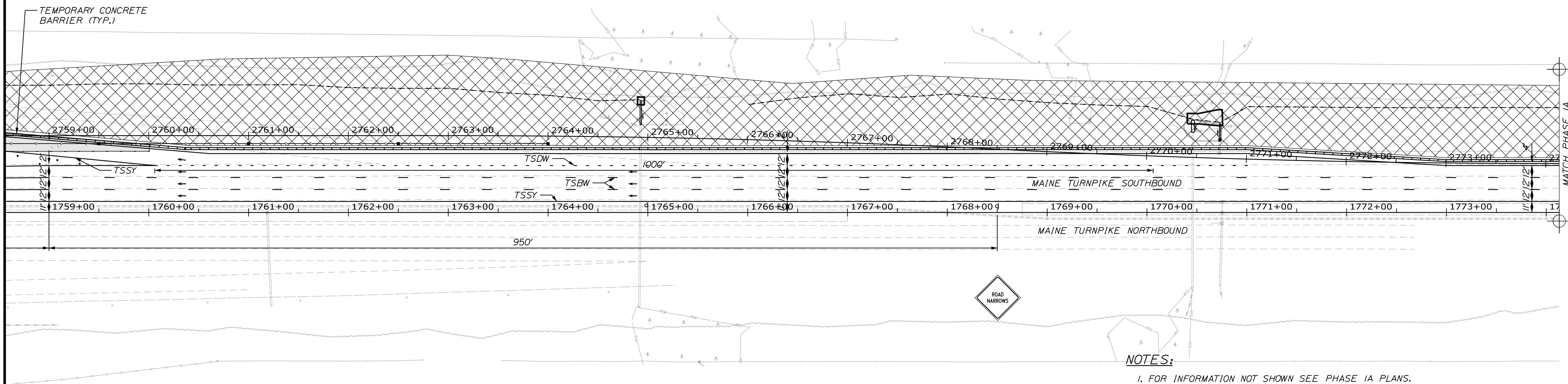
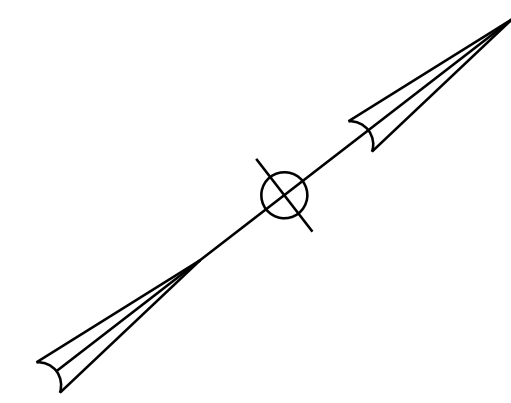
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 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1B  
 PLAN 1

SHEET NUMBER: MOT-20  
 57 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

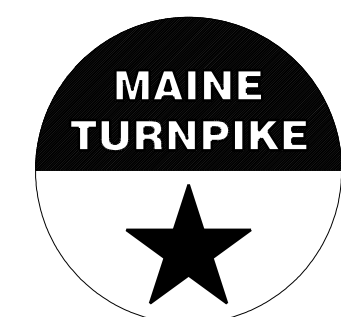
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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1B  
PLAN 2

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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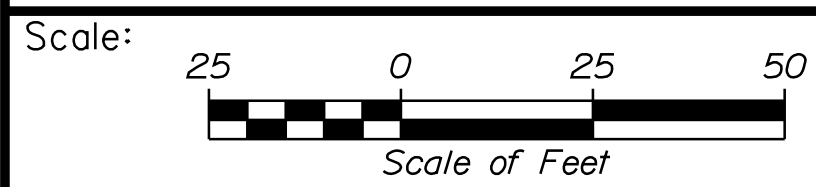
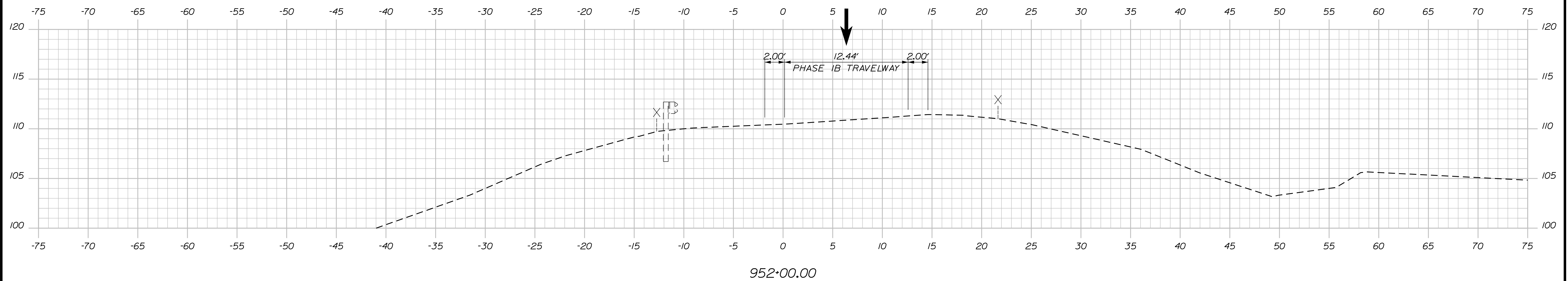
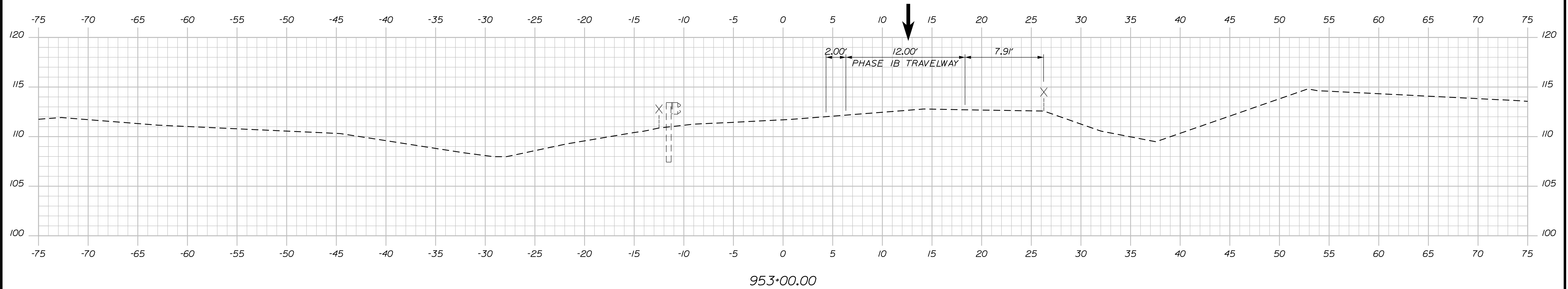
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SHEET NUMBER: MOT-21

58 OF 735

Date: 10/17/2022

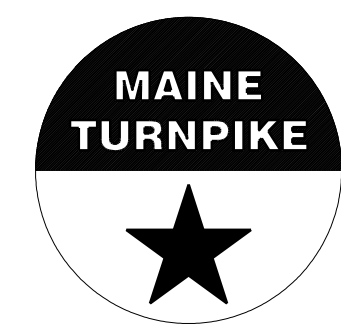
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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1B  
EXIT 36 SB OFF RAMP

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

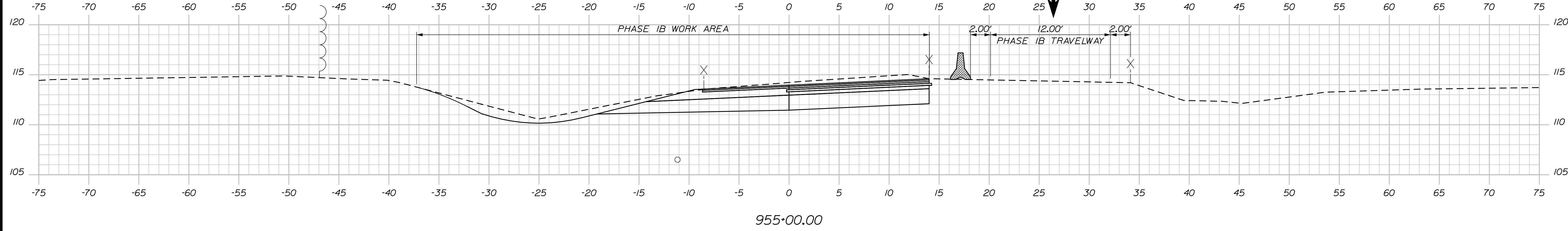
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

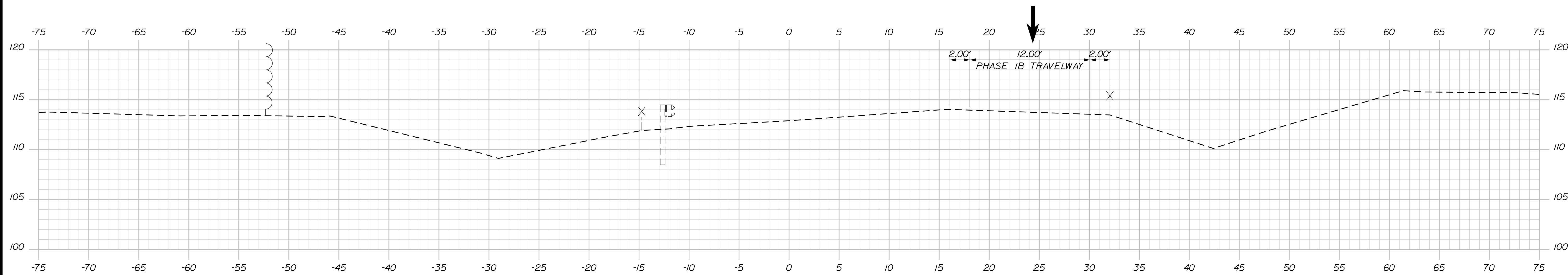
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59 OF 735

Date: 10/7/2022

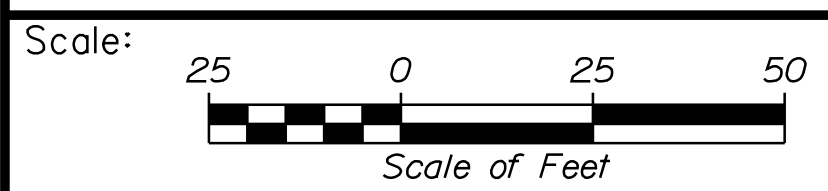
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No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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 MEMORIAL HIGHWAY**

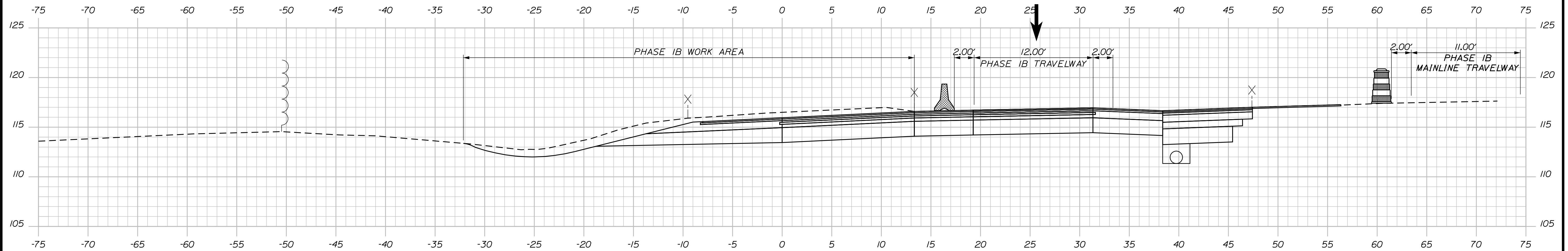
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1B  
 EXIT 36 SB OFF RAMP

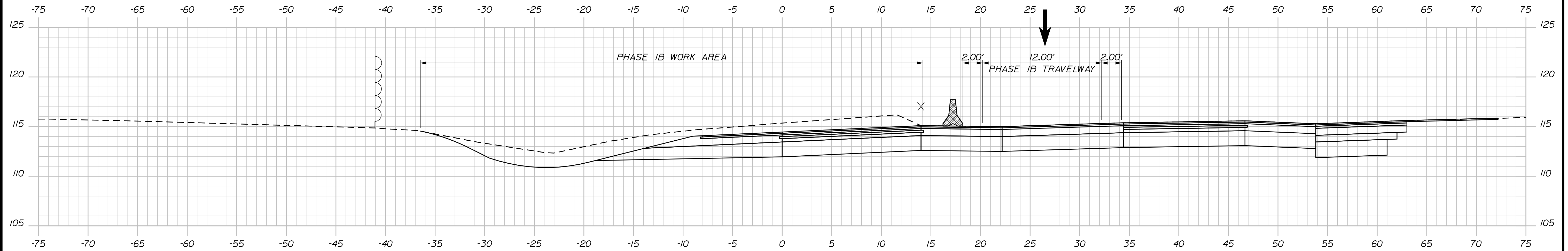
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SHEET NUMBER: MOTXS-16  
 60 OF 735

Date: 10/17/2022

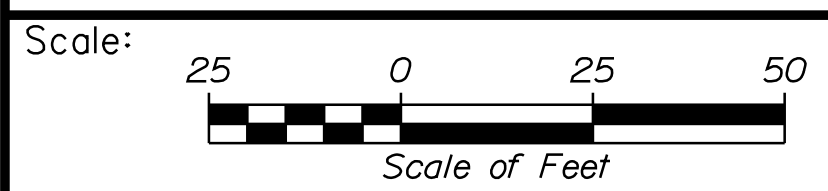


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Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



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Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

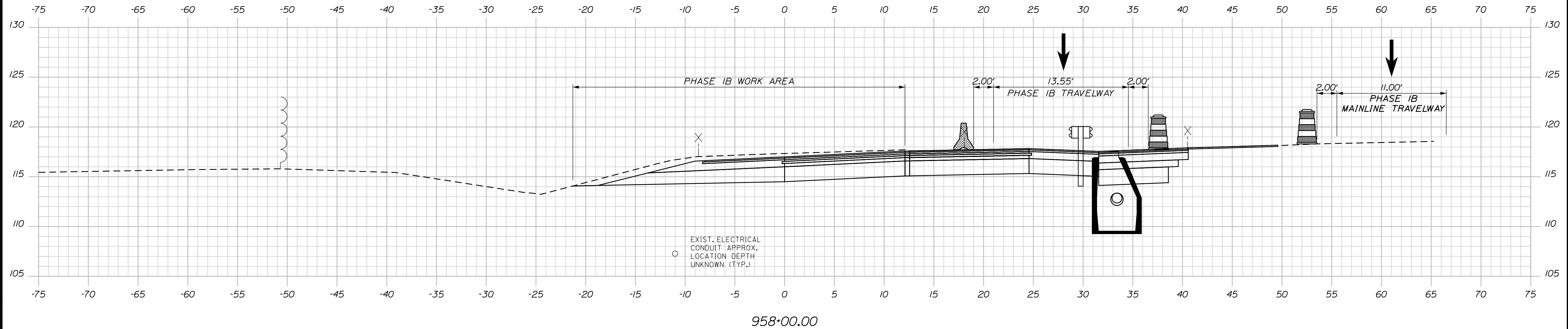
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 1B  
 EXIT 36 SB OFF RAMP

CONTRACT: 2022.07

SHEET NUMBER: MOTXS-17  
 61 OF 735

Date: 10/7/2022

Filename: ...00.HIGHWAY\MSTA\M0T\_xsect.dgn



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

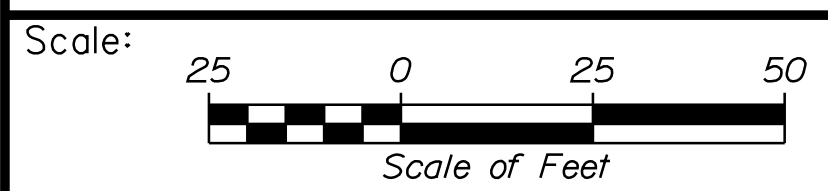
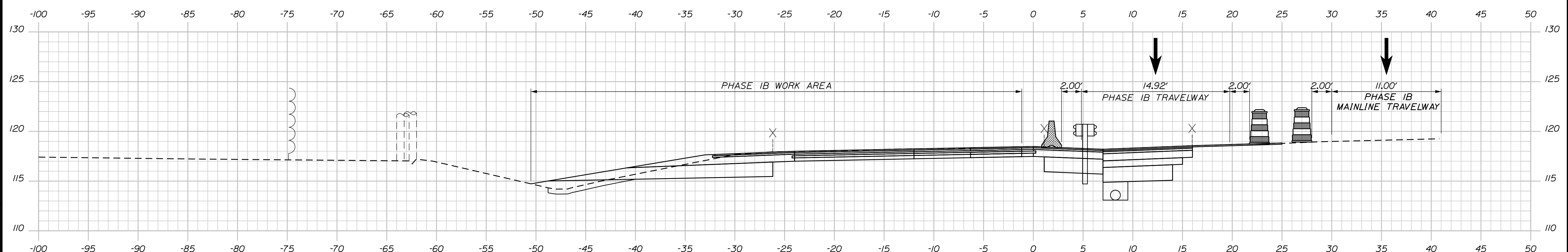
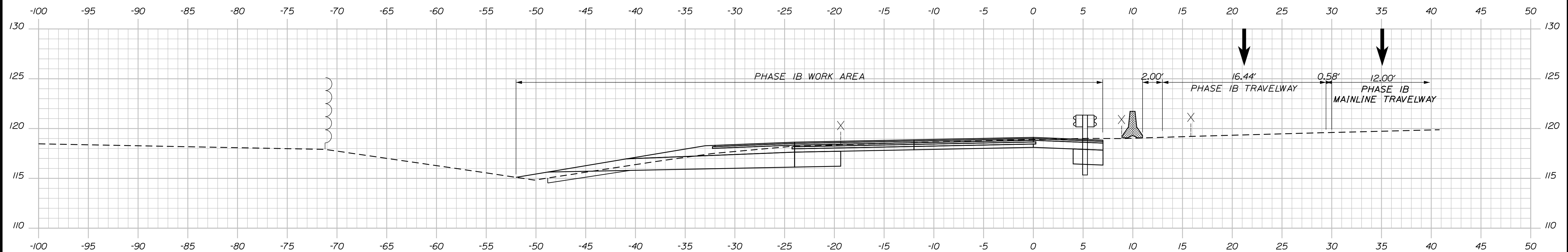
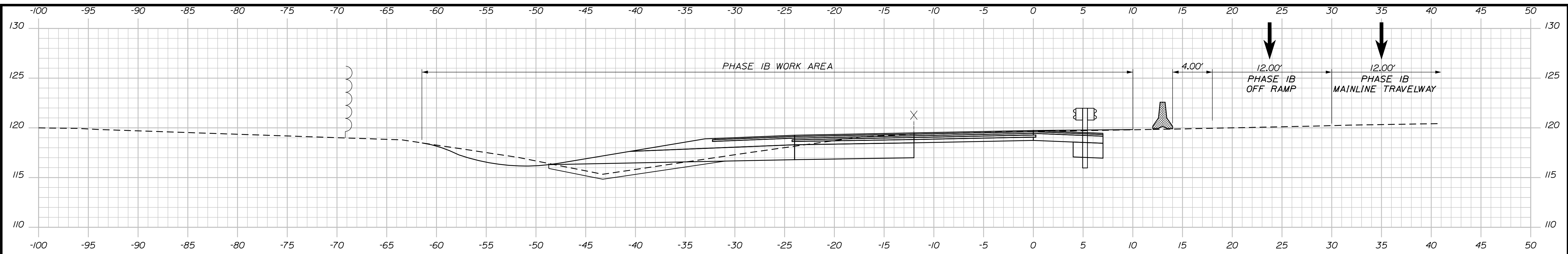
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SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1B  
EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-18  
62 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

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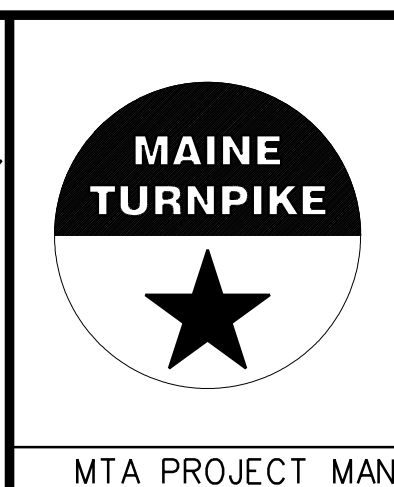
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No.	Revision	By	Date	By	Date

Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

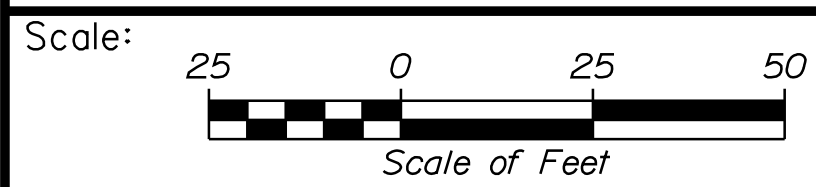
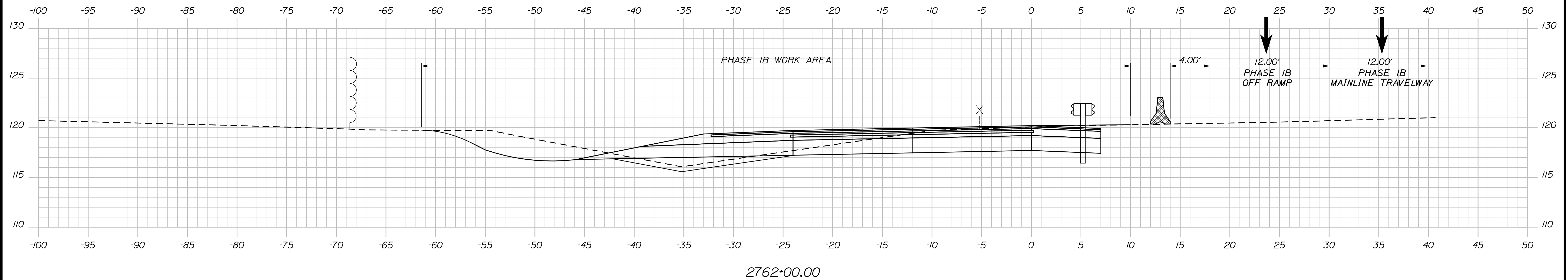
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1B  
CD ROADWAY AT EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-19  
63 OF 735

CONTRACT: 2022.07

Date: 10/7/2022

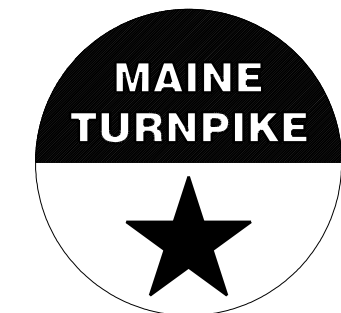
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**THE GOLD STAR  
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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 1B  
EXIT 36 SB OFF RAMP

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

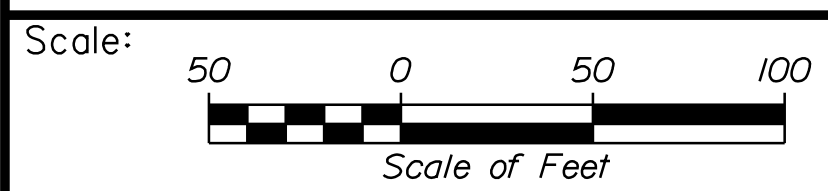
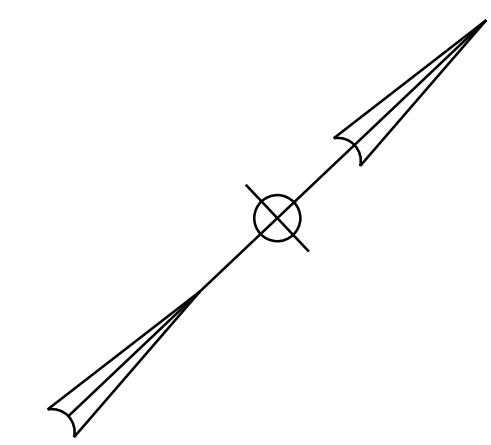
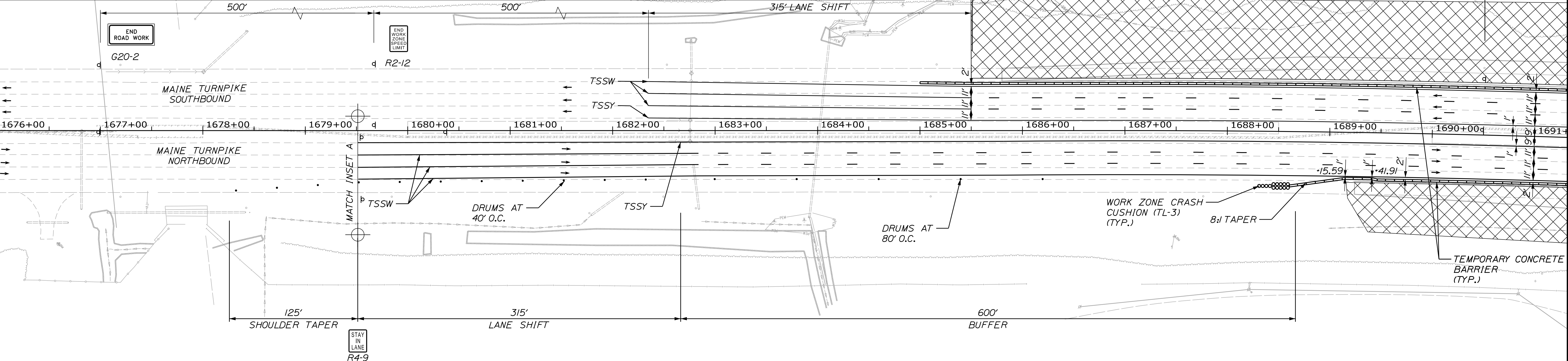
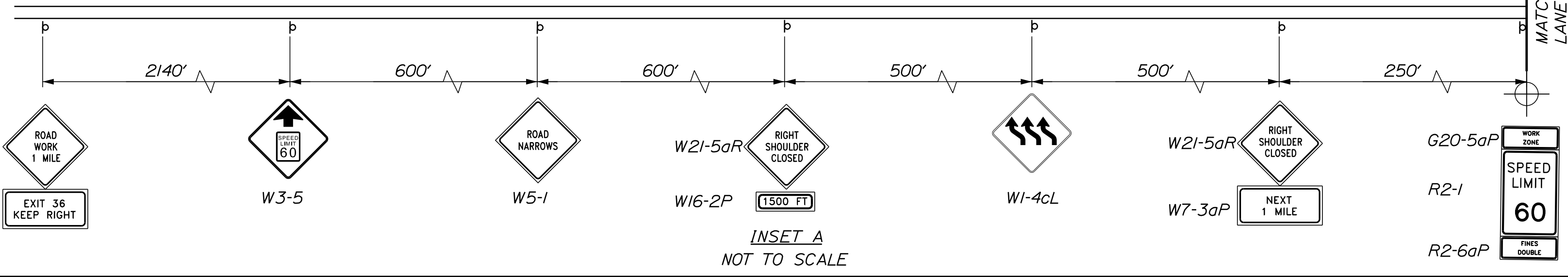
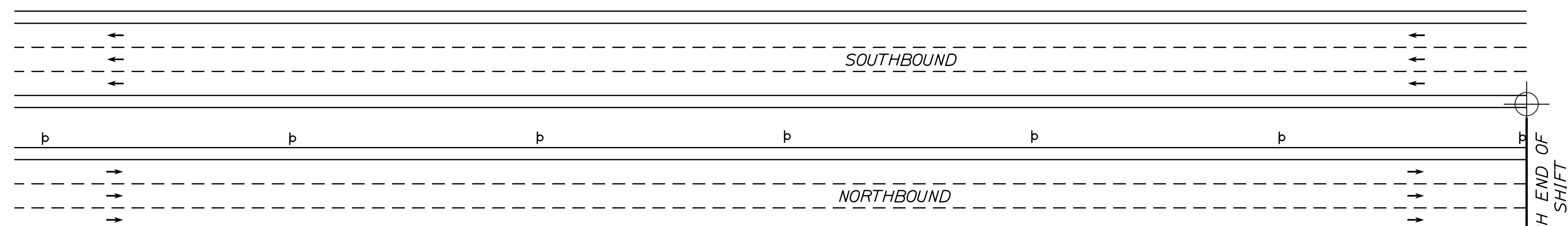
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64 OF 735



Date: 10/17/2022

Filename: ...MSTA\_MOT\_Phase2A\_01.dgn



No.	Revision	By	Date

Designed by:

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	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

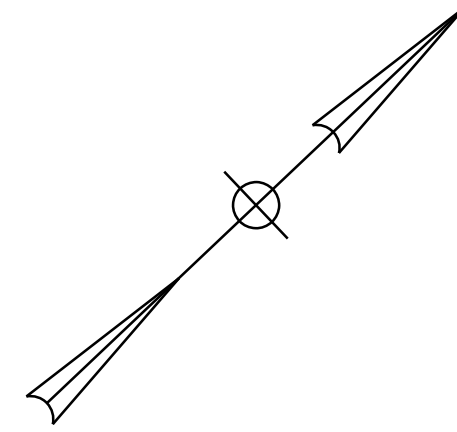
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MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

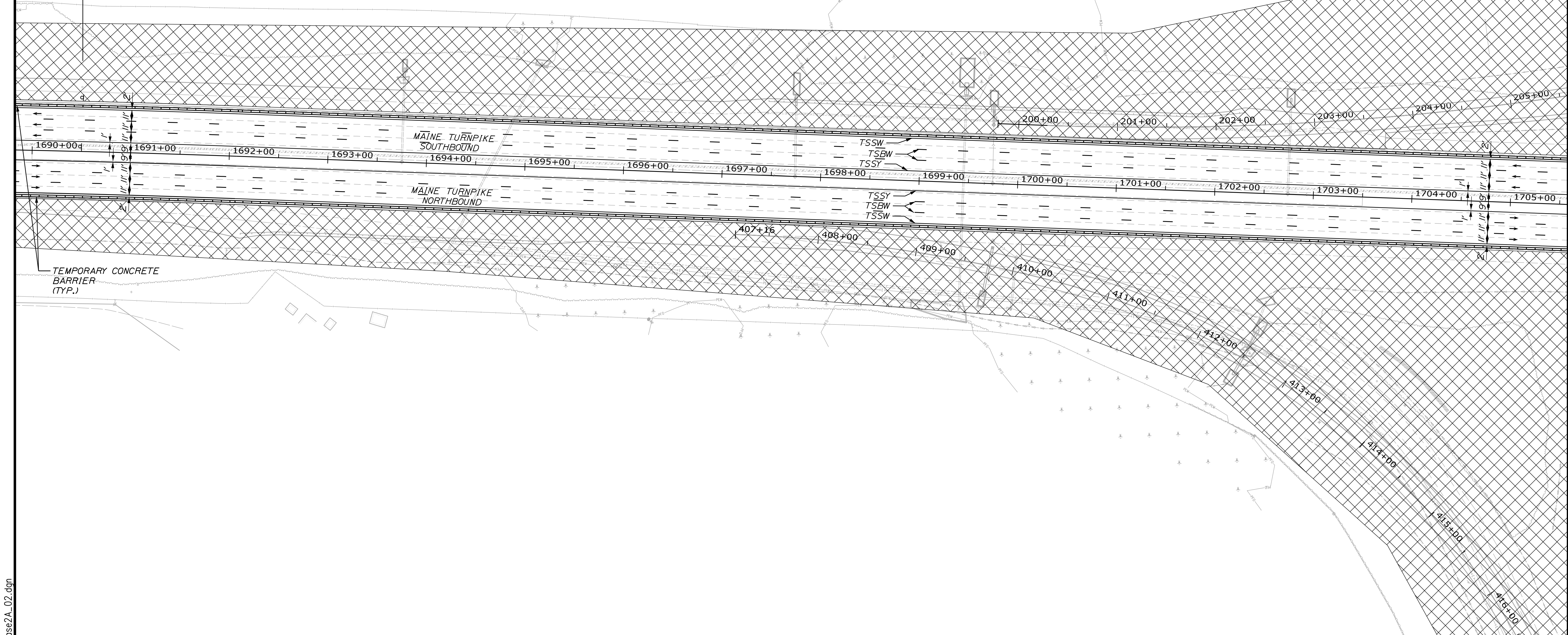
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
PLAN 1

SHEET NUMBER: MOT-23  
CONTRACT: 2022.07  
65 OF 735




WI-4cR

Date: 10/7/2022



Scale: 50 0 50 100  
Scale of Feet

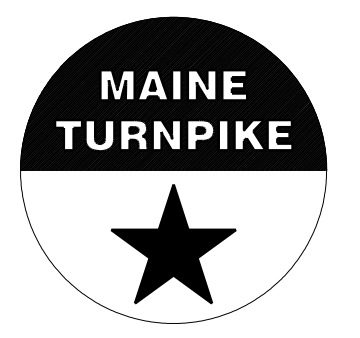
No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

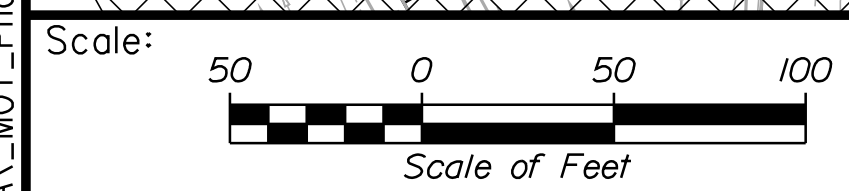
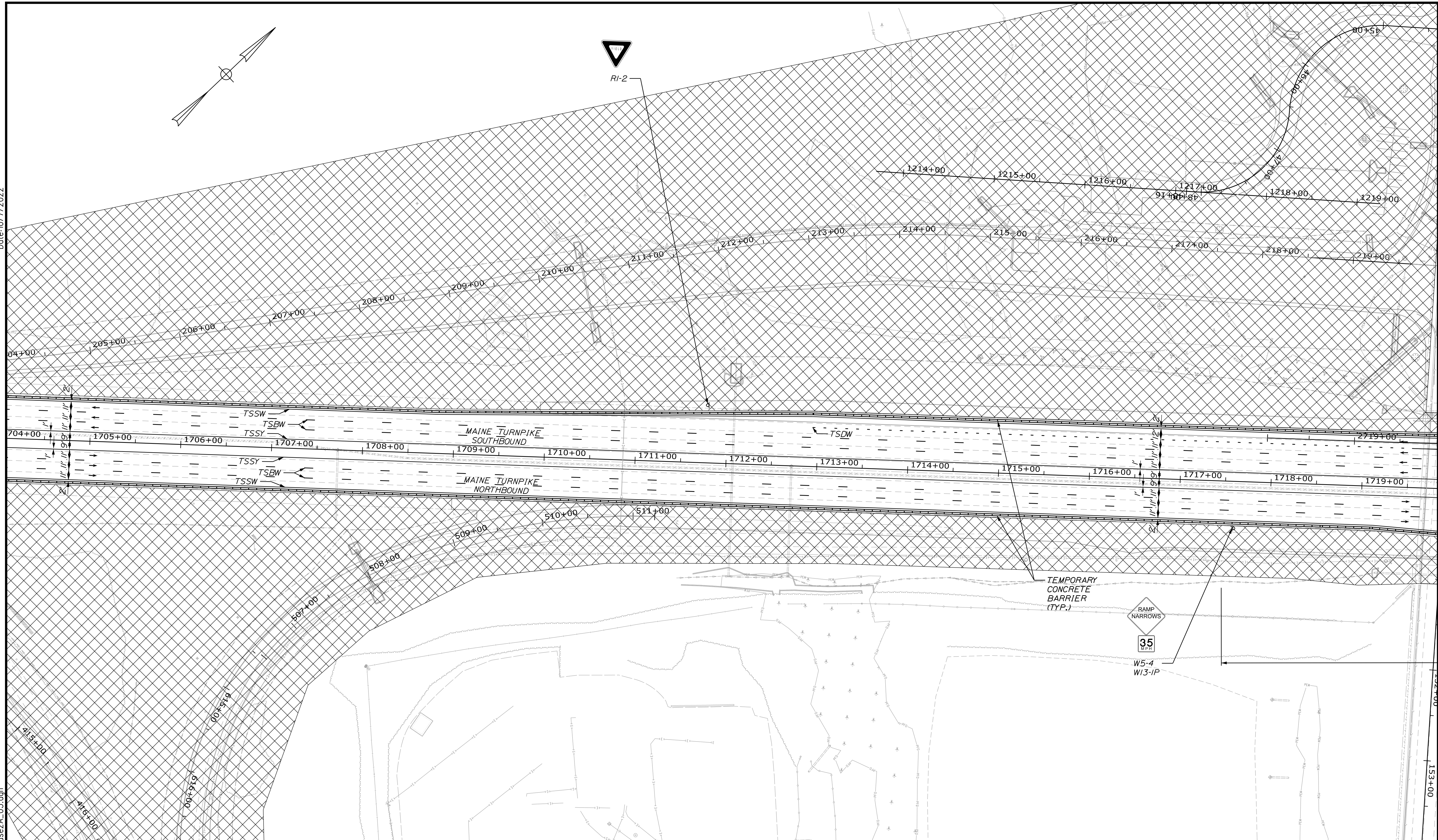
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
PLAN 2

SHEET NUMBER: MOT-24  
CONTRACT: 2022.07  
66 OF 735

Filename: ...MSTA\_MOT\_Phase2A\_02.dgn

Date: 10/7/2022

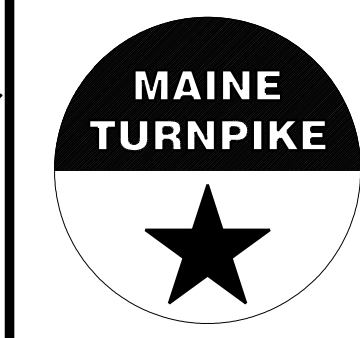
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# THE GOLD STAR MEMORIAL HIGHWAY

## INTERCHANGE IMPROVEMENTS SACO (EXITS 35 & 36) MAINTENANCE OF TRAFFIC - PHASE 2A PLAN 3

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
	By	Date	
Designed	JRH	10\22	Checked
Drawn	CHL	10\22	In Charge of

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

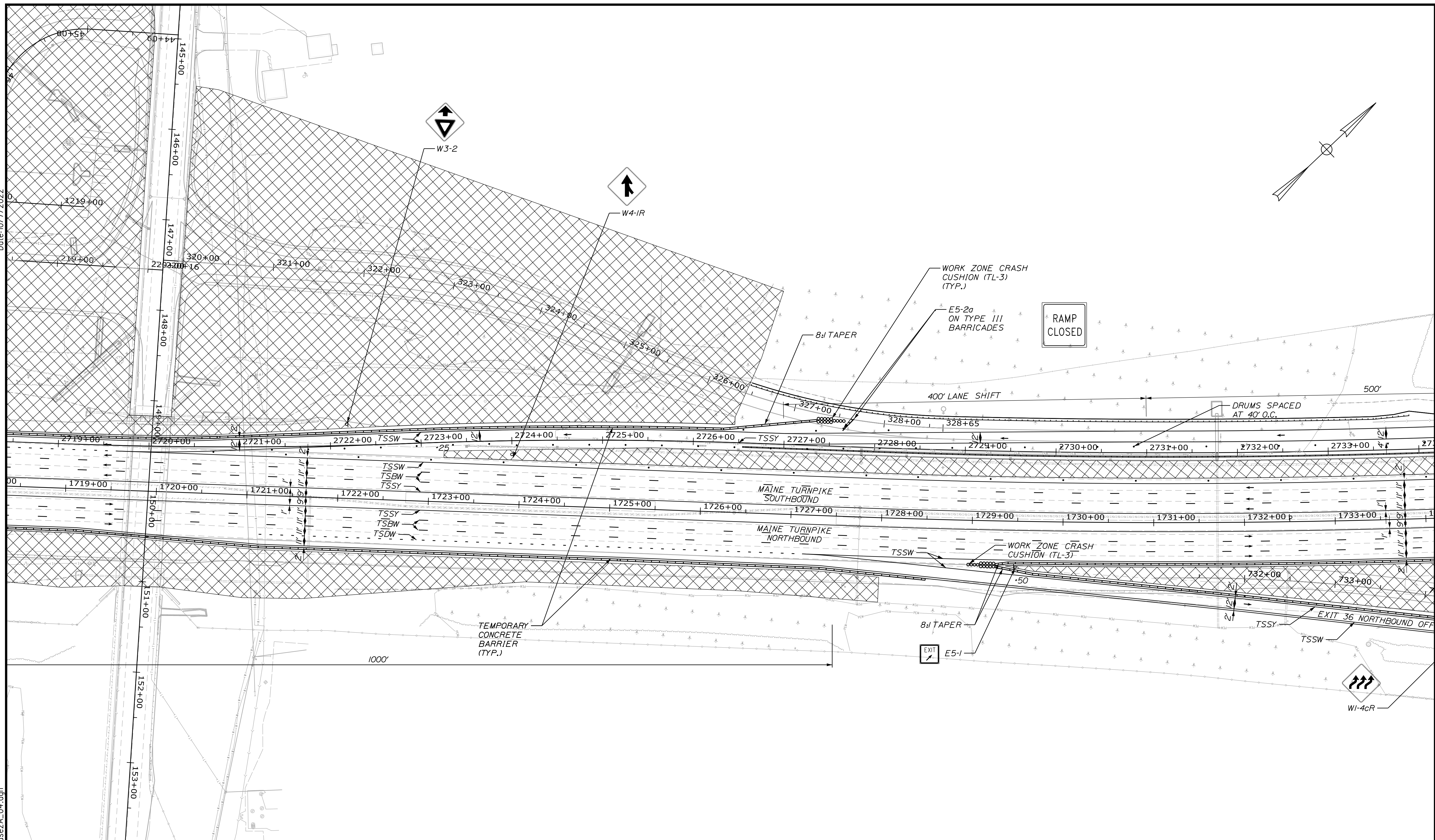
CONTRACT: 2022.07

SHEET NUMBER: MOT-25

67 OF 735


Date: 10/17/2022

Filename: ...MSTA\_MOT\_Phase2A\_04.dgn



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Scale of Feet

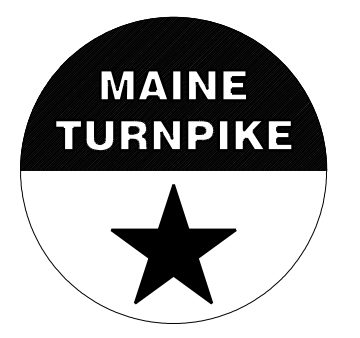
No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

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## THE GOLD STAR MEMORIAL HIGHWAY

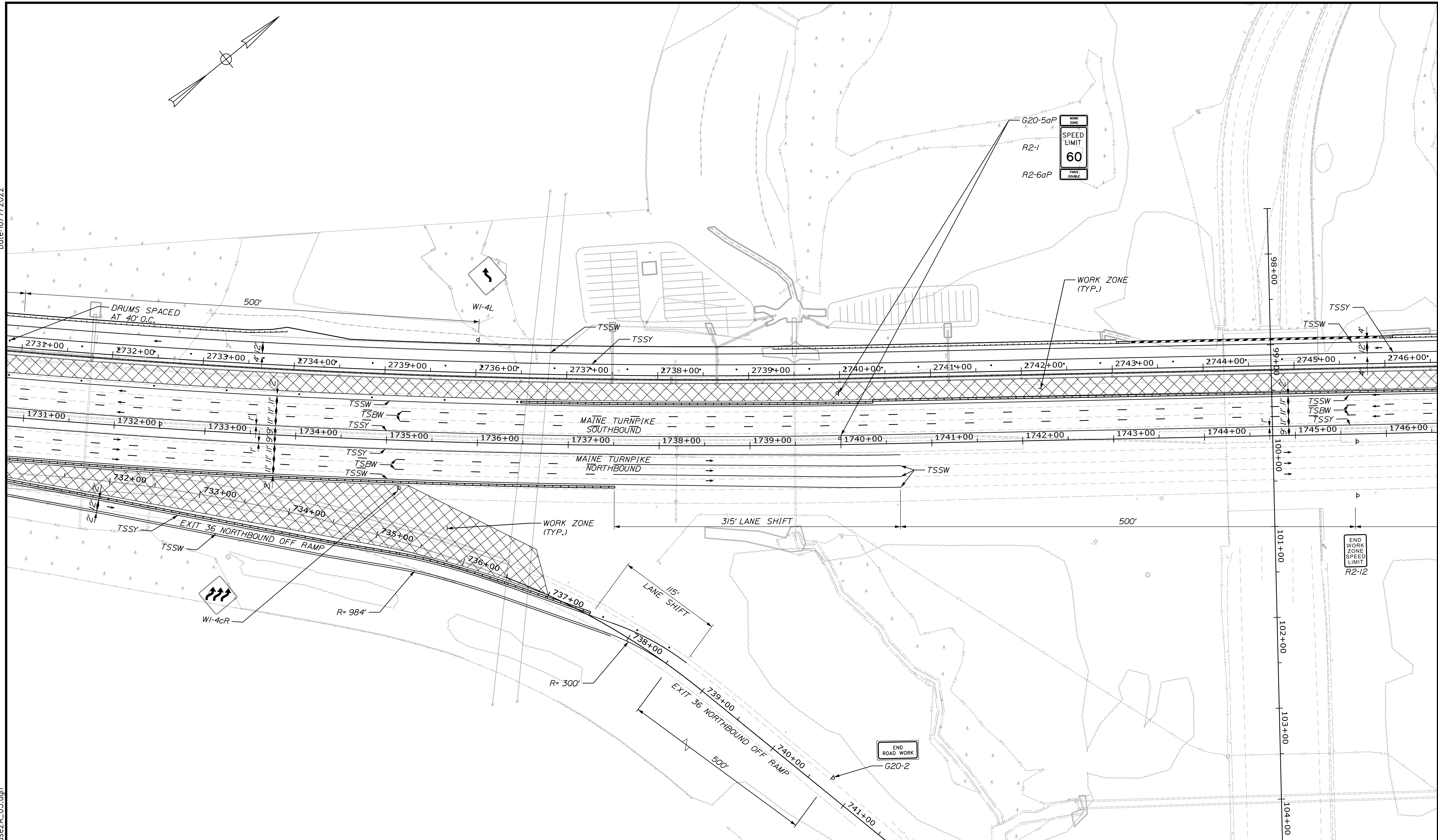
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
PLAN 4

SHEET NUMBER: MOT-26  
CONTRACT: 2022.07  
8 OF 735

Date: 10/17/2022


Filename: ...MSTA\_MOT\_Phase2A\_05.dgn



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

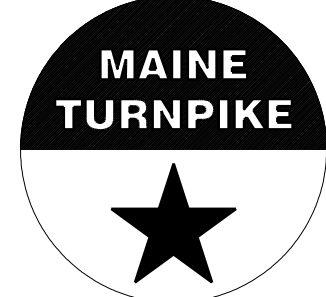
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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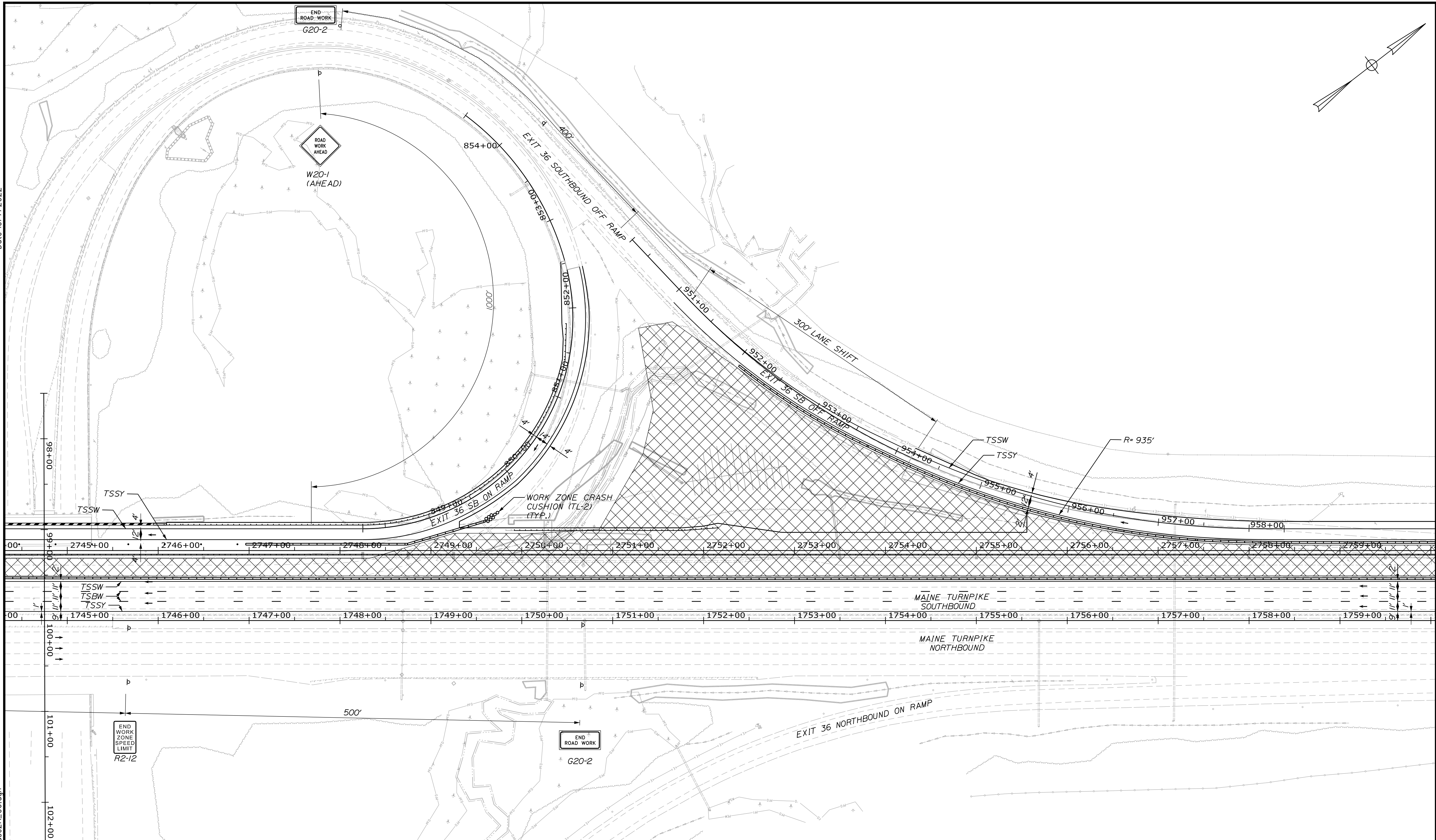
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
PLAN 5

SHEET NUMBER: MOT-27  
CONTRACT: 2022.07  
99 OF 735

Date: 10/17/2022

Filename: ...MSTA\_MOT\_Phase2A\_06.dgn



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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MEMORIAL HIGHWAY**

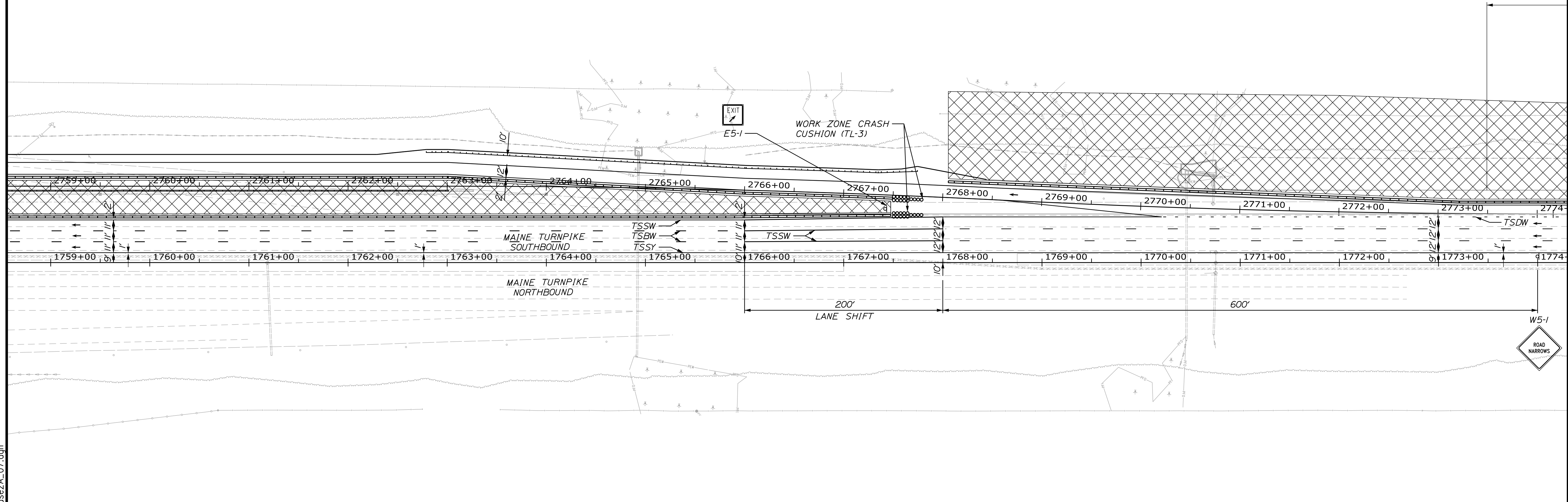
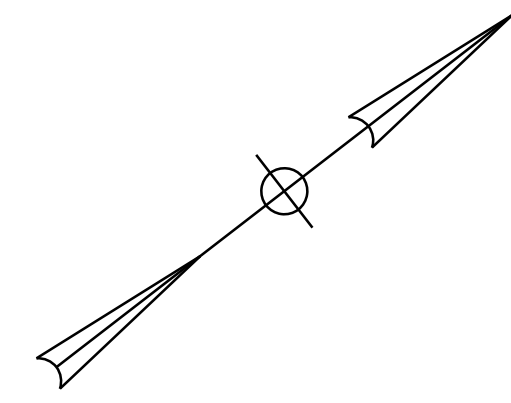
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
PLAN 6

SHEET NUMBER: MOT-28  
CONTRACT: 2022.07  
70 OF 735

Date: 10/17/2022

Filename: ...MSTA\_MOT\_Phase2A\_07.dgn



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

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Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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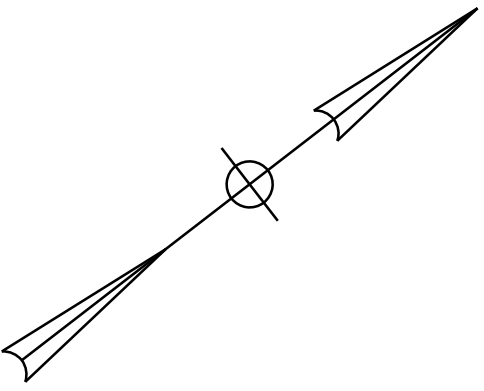
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

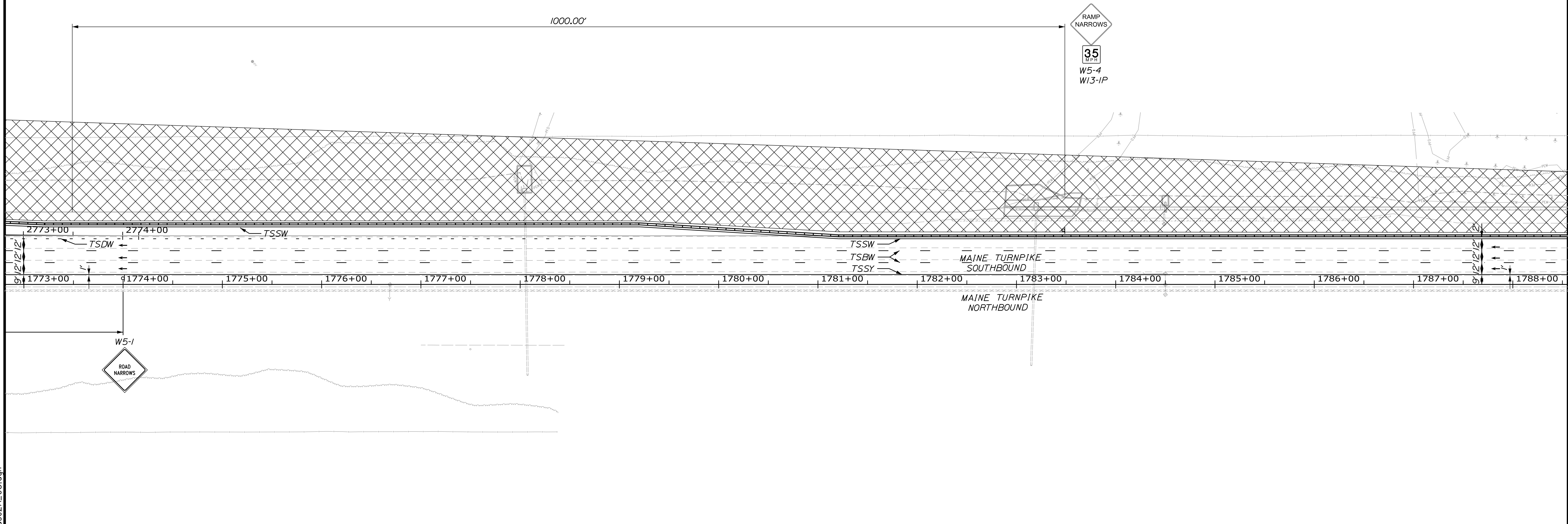
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SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
PLAN 7

SHEET NUMBER: MOT-29  
71 OF 735

CONTRACT: 2022.07



Date: 10/17/2022



Filename: ...MSTA\_MOT\_Phase2A\_08.dgn

Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

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Drawn	CHL	10\22	In Charge of	LEM	10\22

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MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

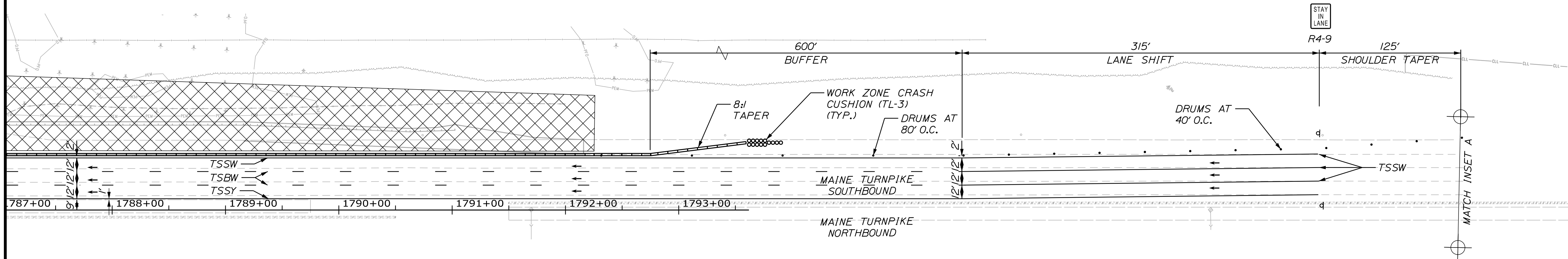
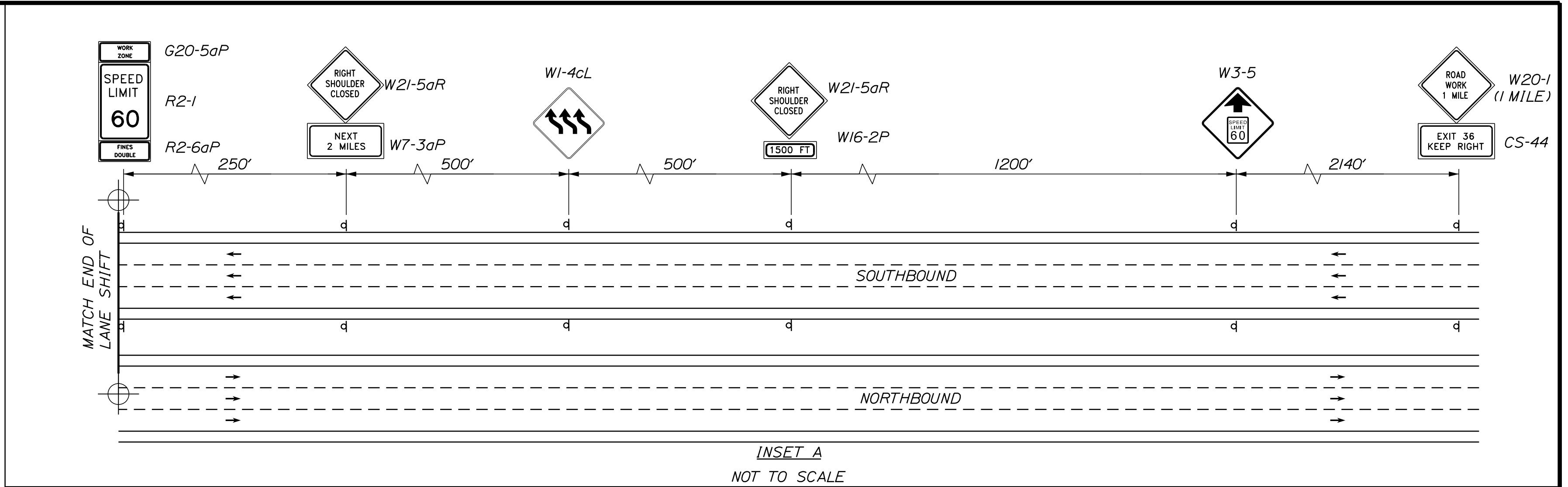
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
PLAN 8

SHEET NUMBER: MOT-30  
72 OF 735

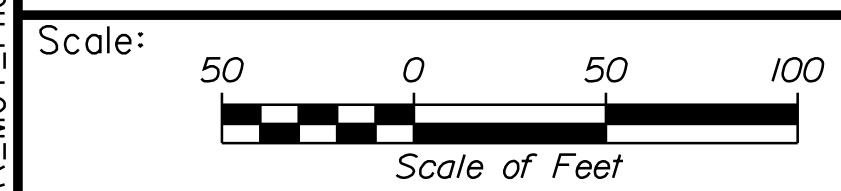
CONTRACT: 2022.07



Date: 10/17/2022



Filename: ...MSTA\_MOT\_Phase2A\_09.dgn



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Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

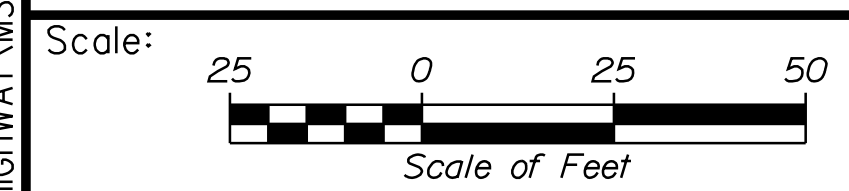
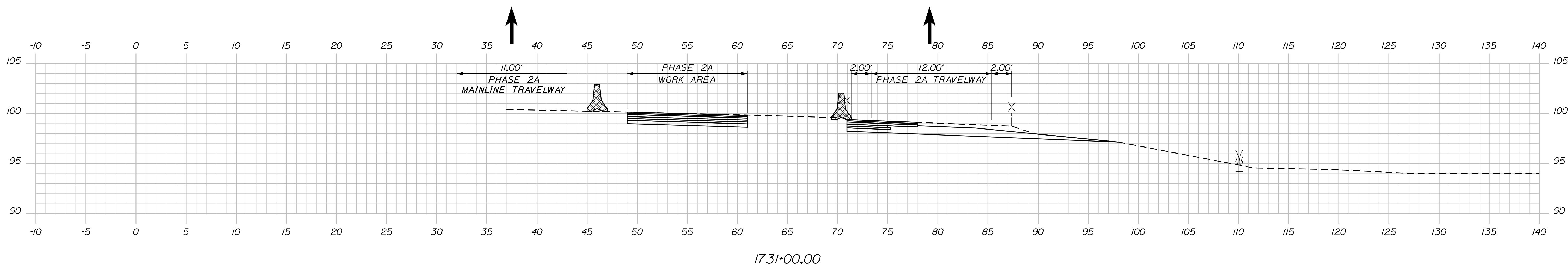
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 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 2A  
 PLAN 9

SHEET NUMBER: MOT-31  
 73 OF 735

CONTRACT: 2022.07

Date: 10/7/2022

Filename: ...00\HIGHWAY\MSTA\M0T\_xsect.dgn



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No.	Revision	By	Date

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Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

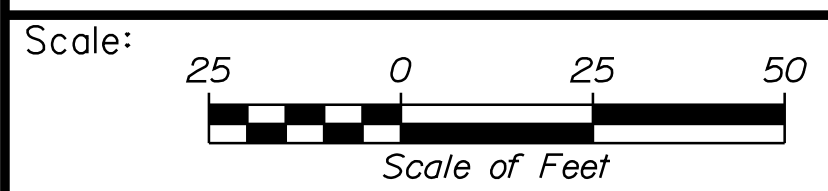
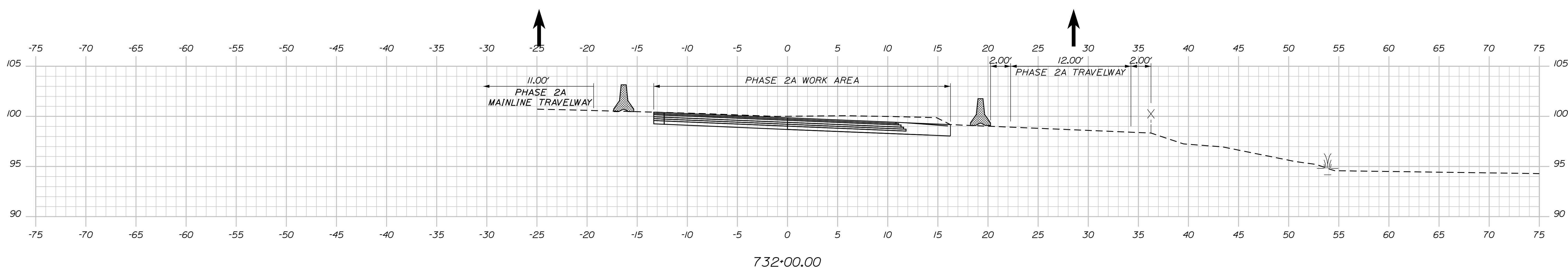
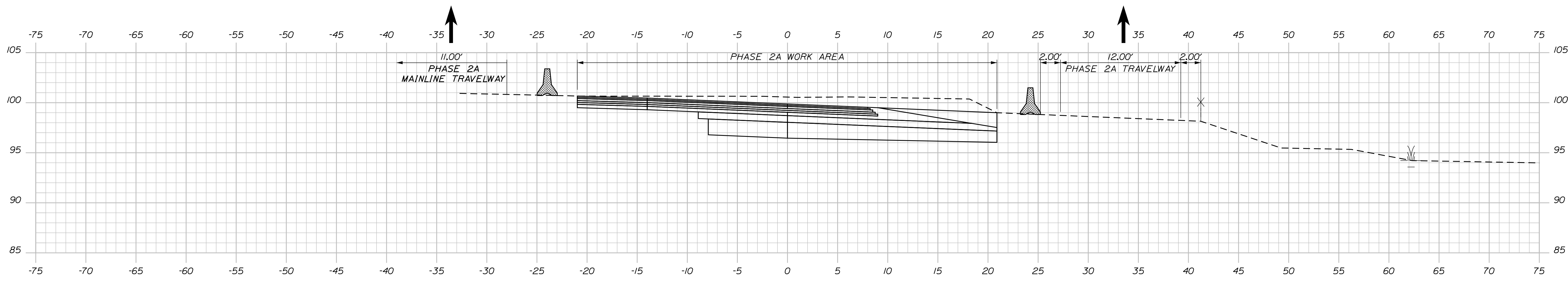
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MAINTENANCE OF TRAFFIC - PHASE 2A  
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SHEET NUMBER: MOTXS-21  
74 OF 735

CONTRACT: 2022.07

Date: 10/7/2022

Filename: ... \00\HIGHWAY\MSTA\M0T\_xsect.dgn



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

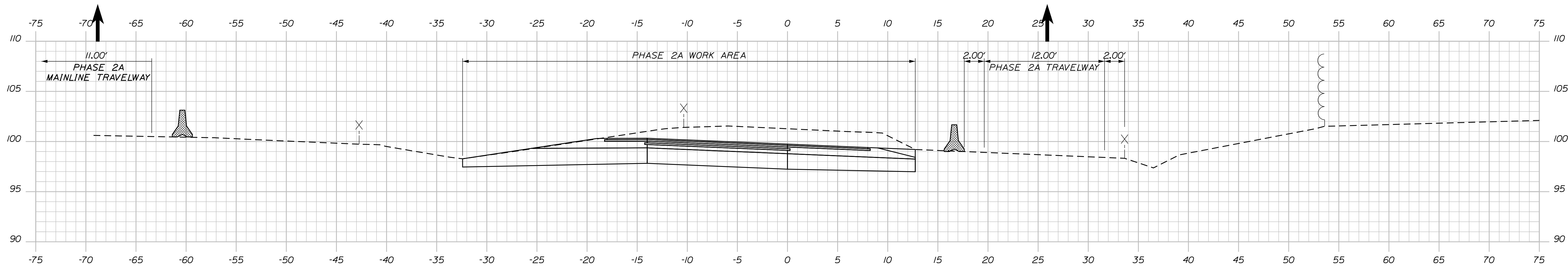
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MAINTENANCE OF TRAFFIC - PHASE 2A  
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SHEET NUMBER: MOTXS-22  
75 OF 735

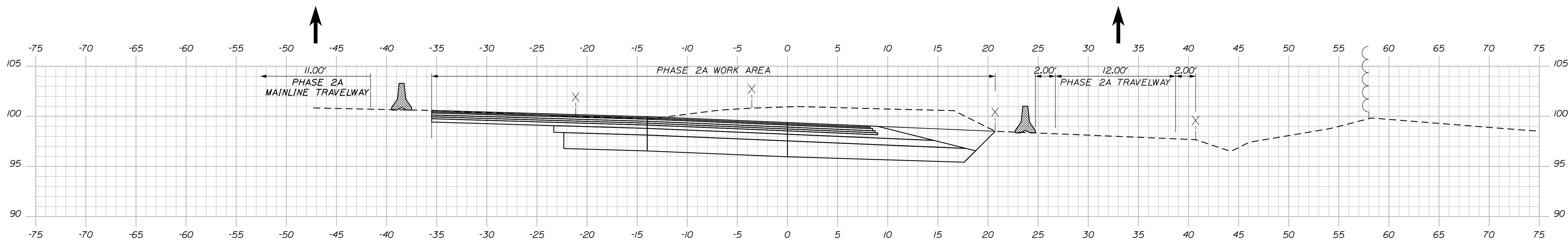
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Date: 10/7/2022

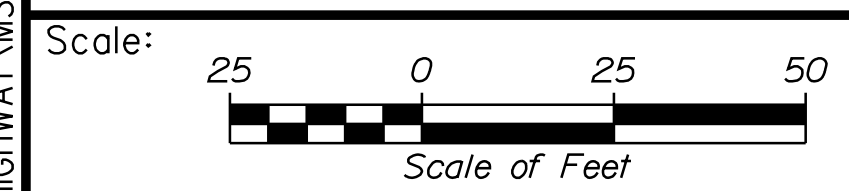
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735+00.00



734+00.00



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	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

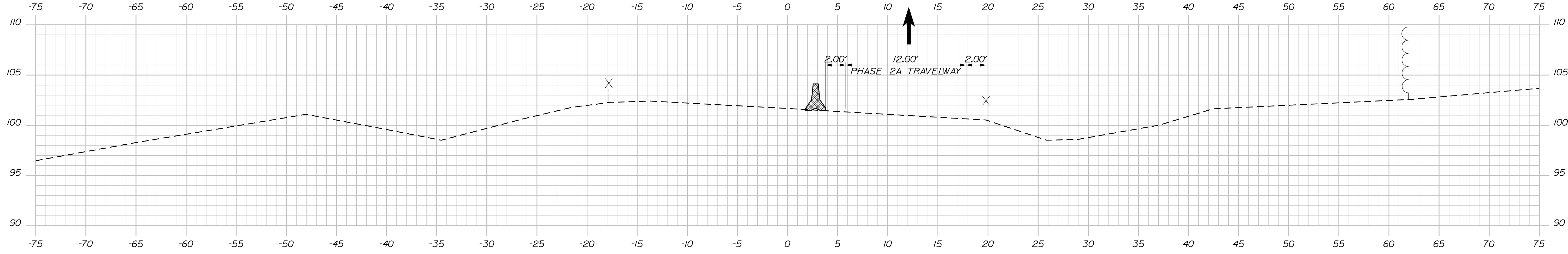
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SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
EXIT 36 NB OFF RAMP

SHEET NUMBER: MOTXS-23  
76 OF 735

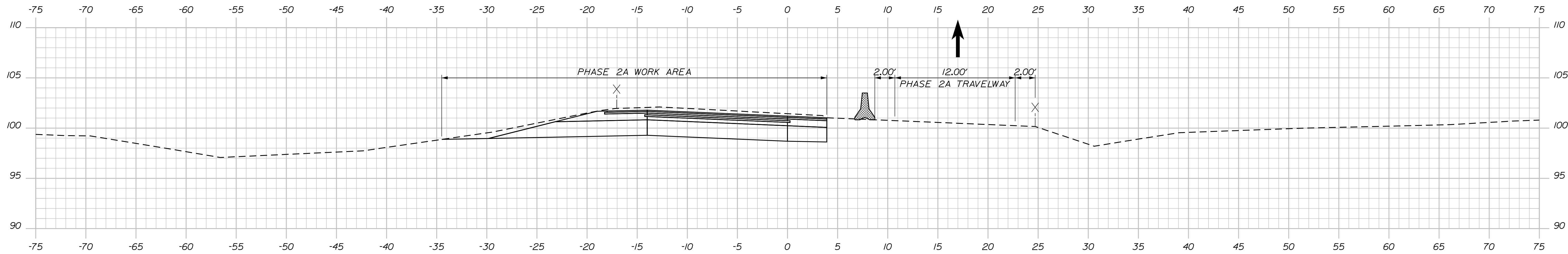
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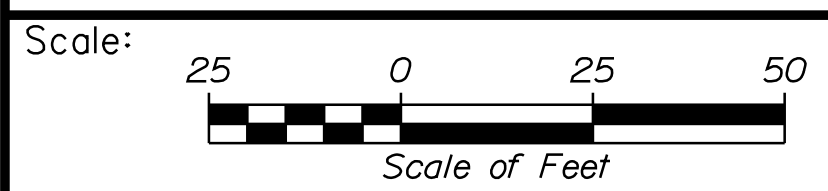
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737+00.00



736+00.00



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	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

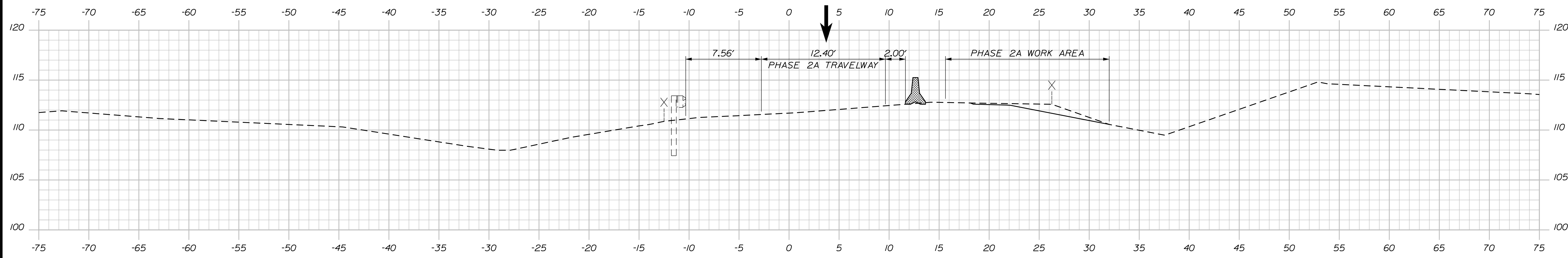
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 2A  
 EXIT 36 NB OFF RAMP

SHEET NUMBER: MOTXS-24  
 77 OF 735

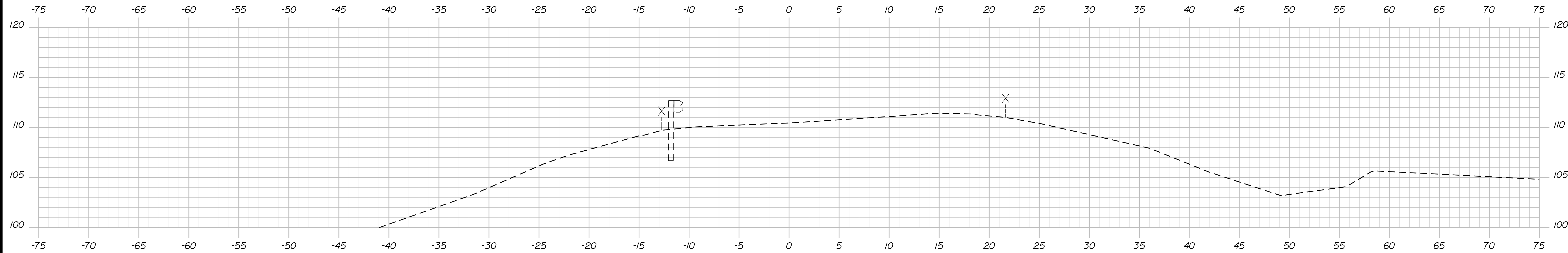
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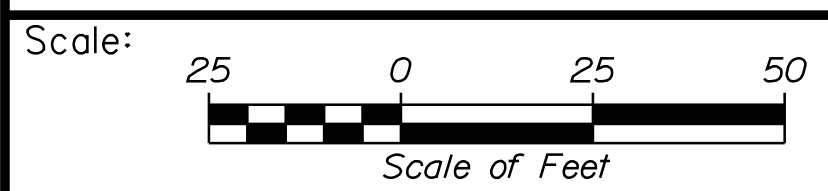
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953+00.00



952+00.00



No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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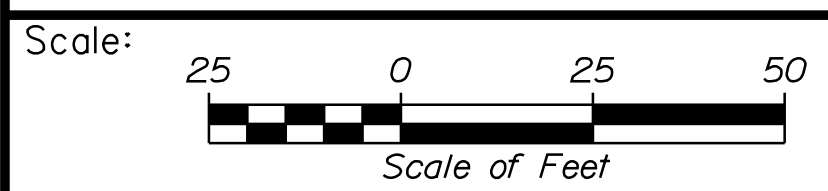
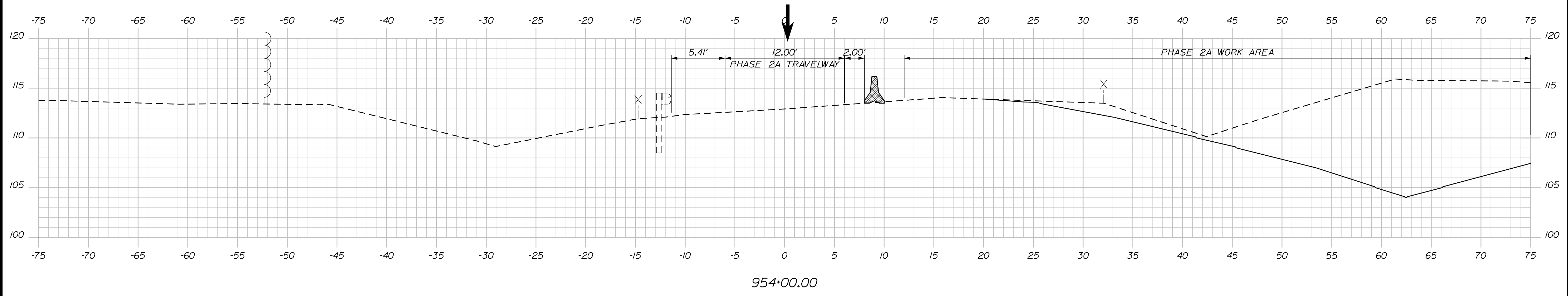
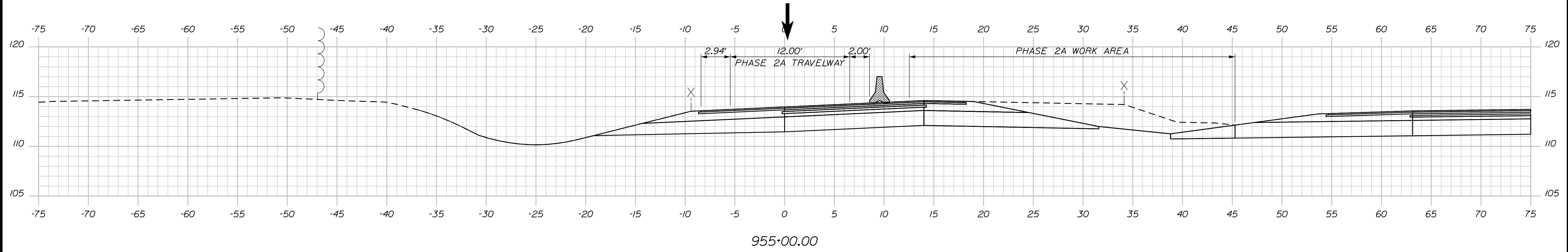
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 2A  
 EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-25  
 78 OF 735

CONTRACT: 2022.07

Date: 10/7/2022

Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

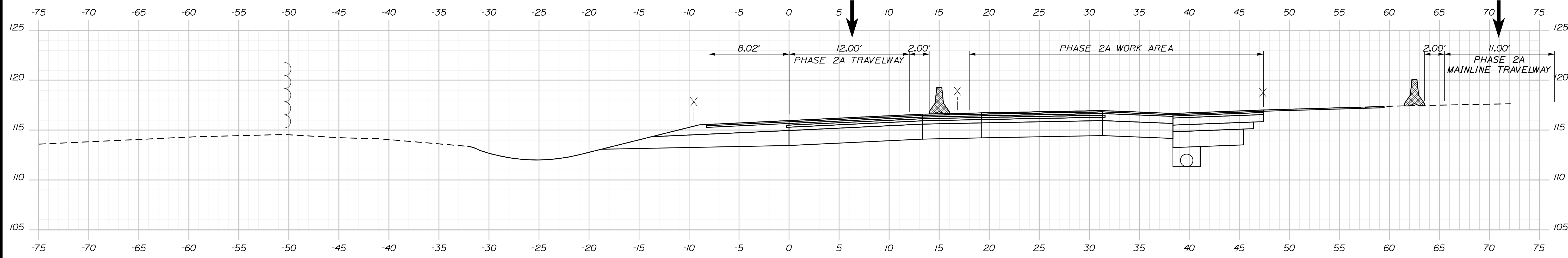
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-26  
79 OF 735

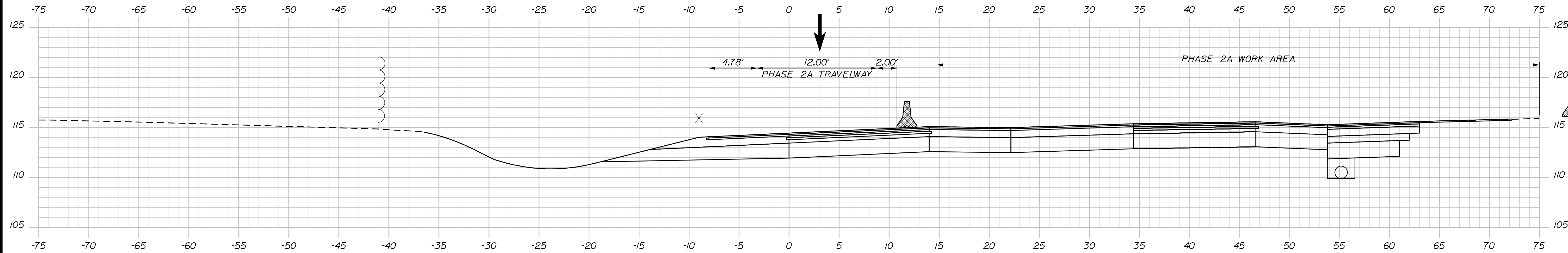
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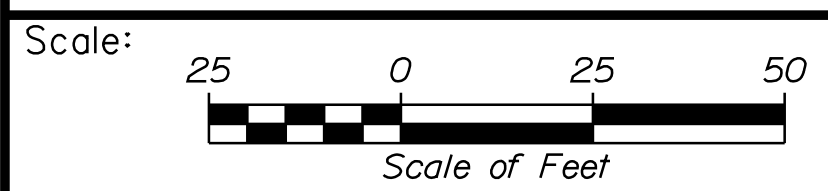
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957+00.00



956+00.00



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Designed	JRH	10\22	Checked	PLP	10\22
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
EXIT 36 SB OFF RAMP

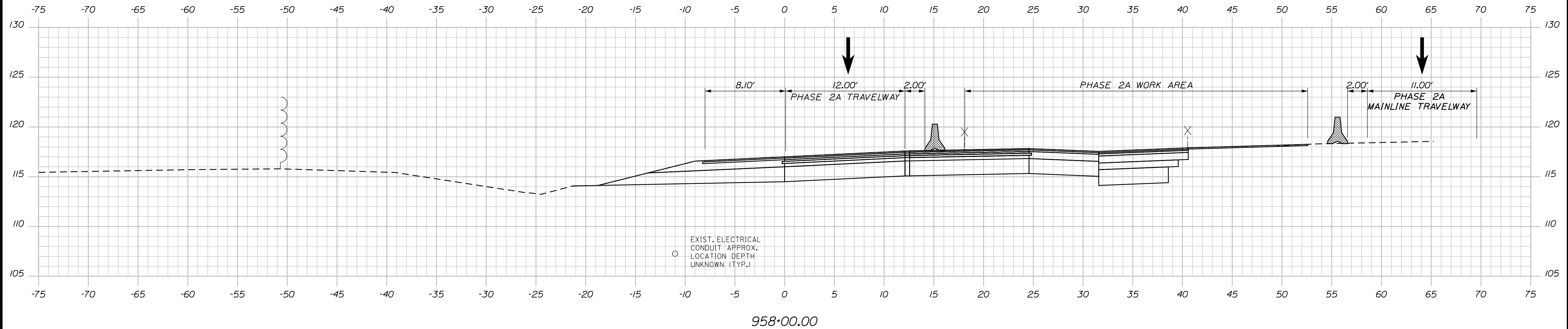
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80 OF 735

CONTRACT: 2022.07



Date: 10/7/2022

Filename: ...:\00.HIGHWAY\MSTA\M0T\_xsect.dgn



Scale: Scale of Feet

No.	Revision	By	Date

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	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

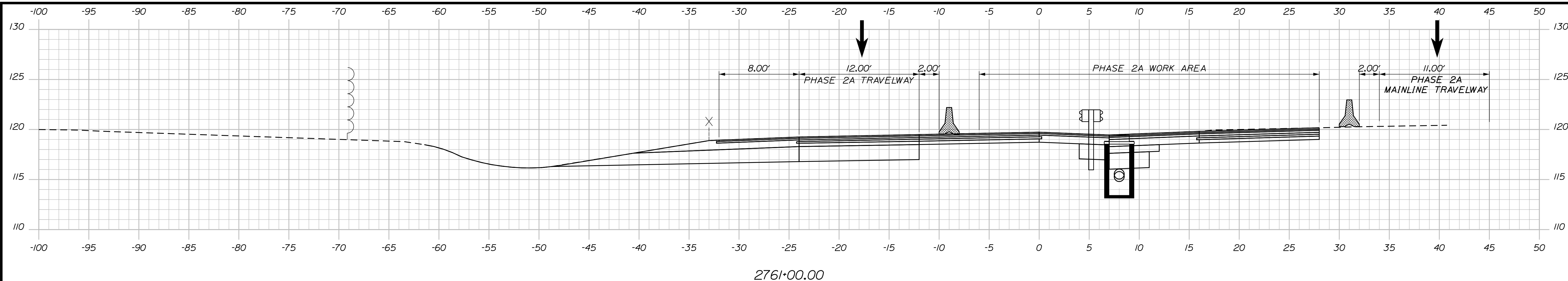
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 2A  
 EXIT 36 SB OFF RAMP

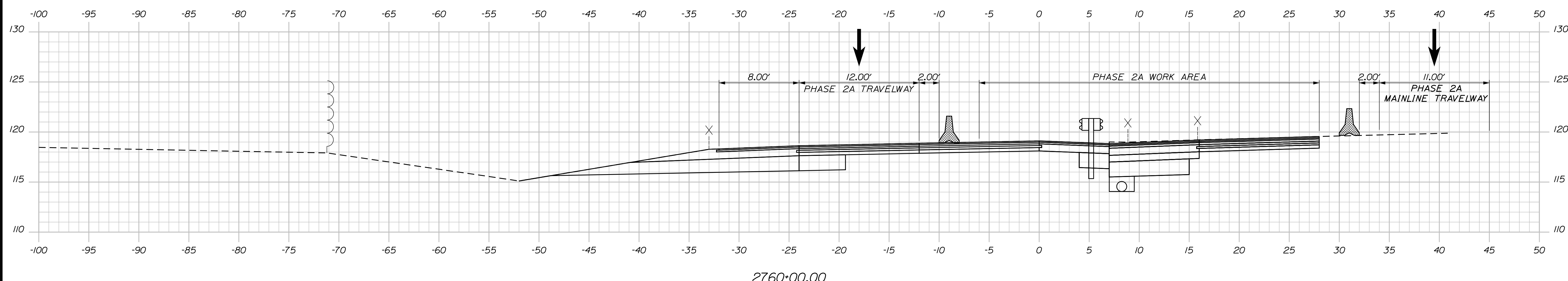
SHEET NUMBER: MOTXS-28  
 81 OF 735

CONTRACT: 2022.07

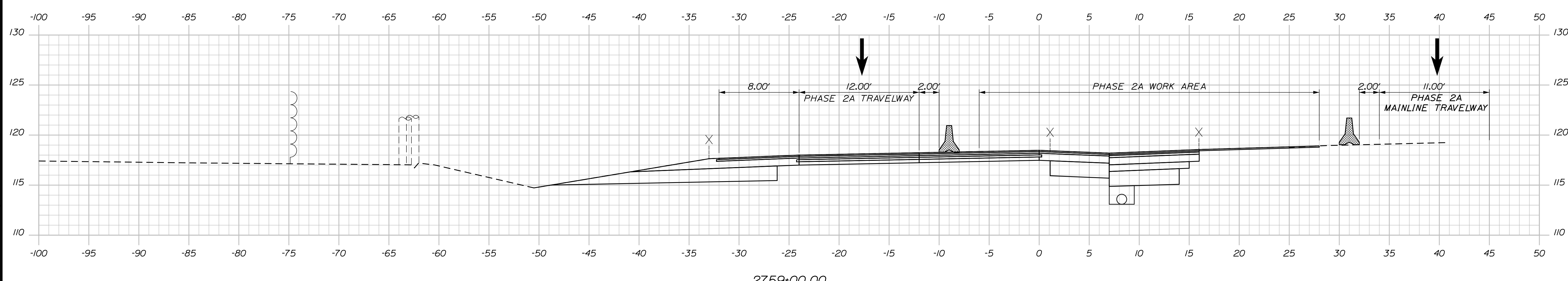
Date: 10/17/2022



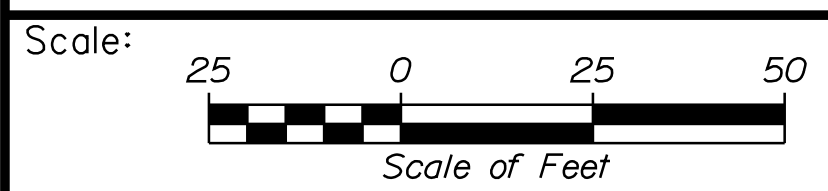
2761+00.00



2760+00.00



2759+00.00



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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date	By	Date

Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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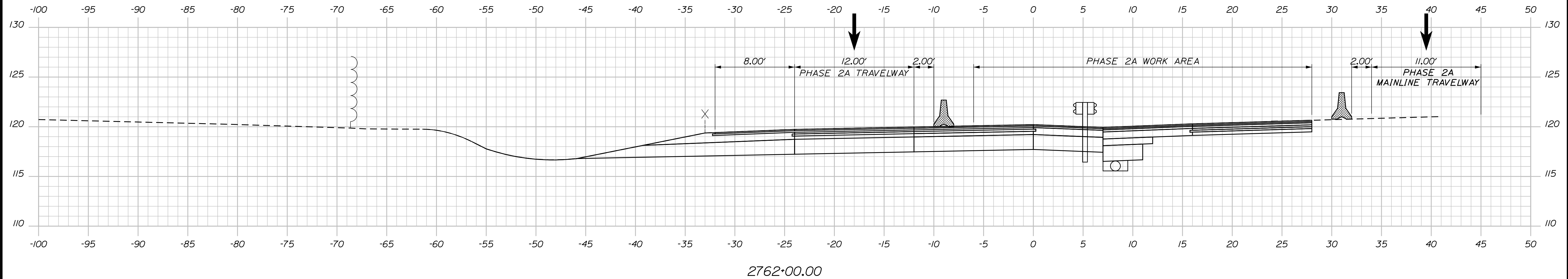
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
CD ROADWAY AT EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-29  
CONTRACT: 2022.07  
82 OF 735

Filename: ...:\00\HIGHWAY\MSTA\MOT\_xsect.dgn

Date: 10/7/2022

Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

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	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

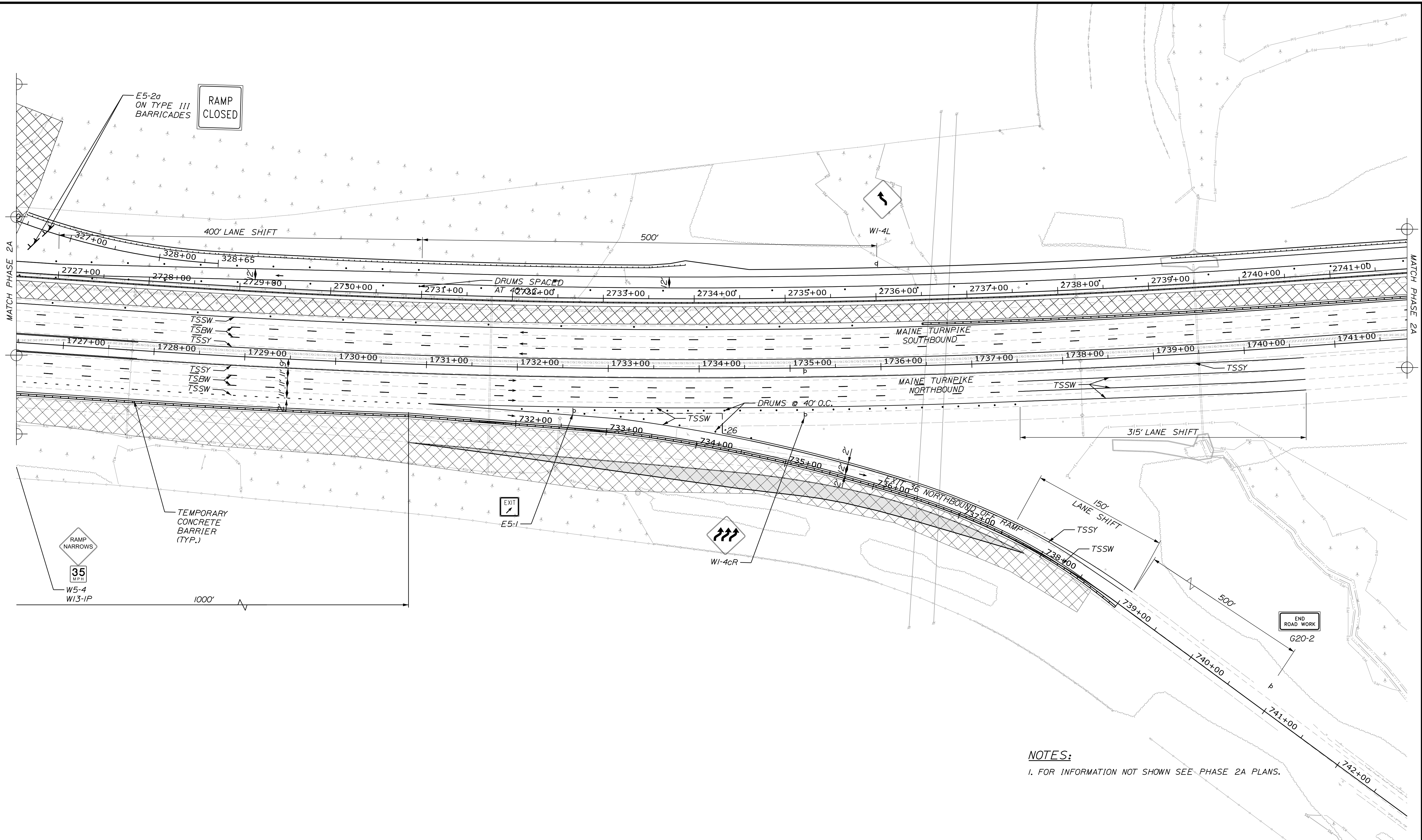
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2A  
EXIT 36 SB OFF RAMP

SHEET NUMBER: MOTXS-30  
83 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...MSTA\_MOT\_Phase2B\_01.dgn



**NOTES:**  
 1. FOR INFORMATION NOT SHOWN SEE PHASE 2A PLANS.

Scale: 50 0 50 100  
 Scale of Feet

No.	Revision	By	Date

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	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

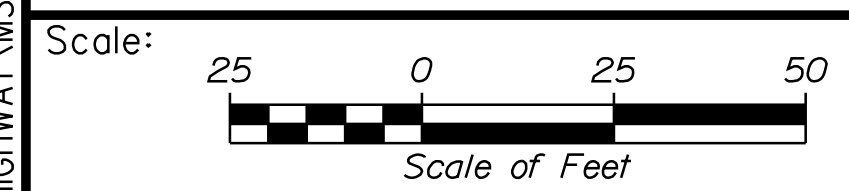
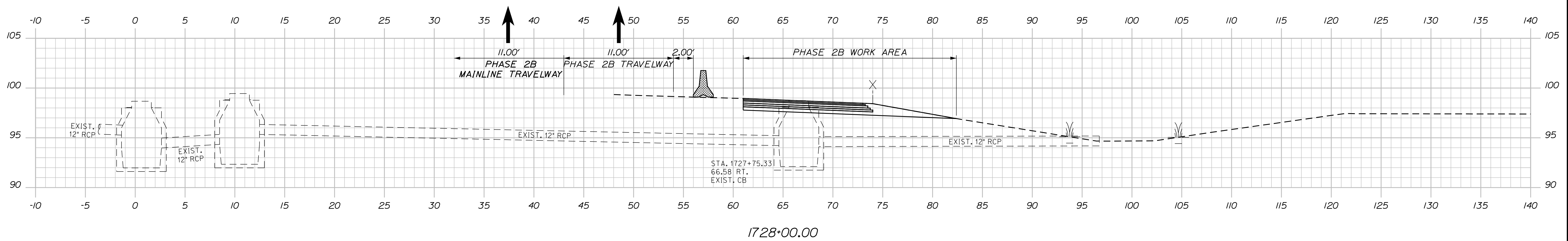
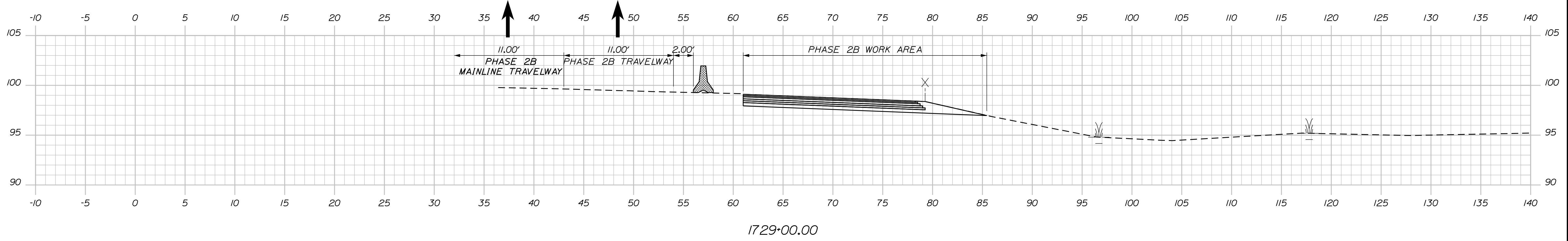
**INTERCHANGE IMPROVEMENTS**  
**SACO (EXITS 35 & 36)**  
**MAINTENANCE OF TRAFFIC - PHASE 2B**  
**PLAN 1**

SHEET NUMBER: MOT-32  
 84 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



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No.	Revision	By	Date

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

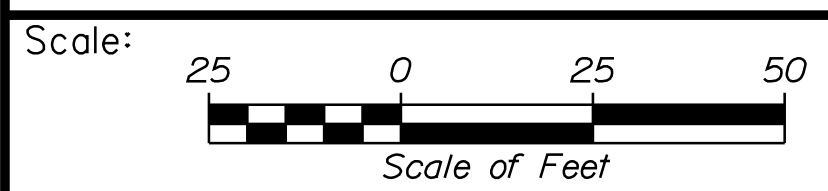
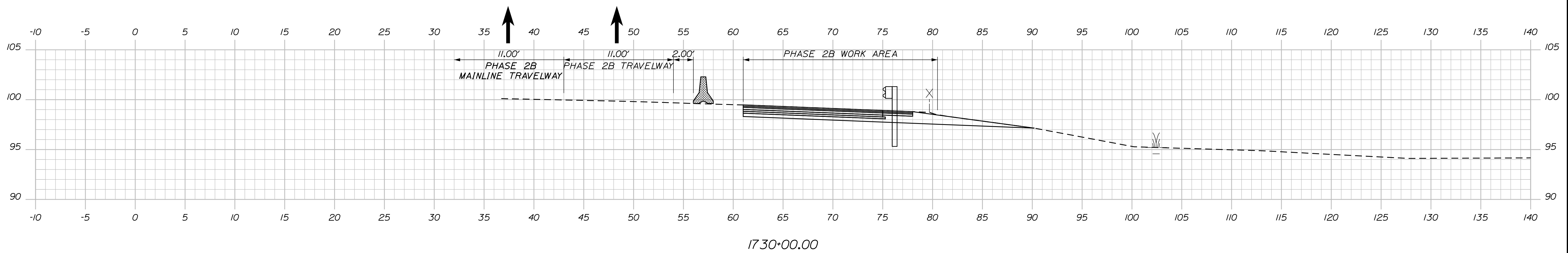
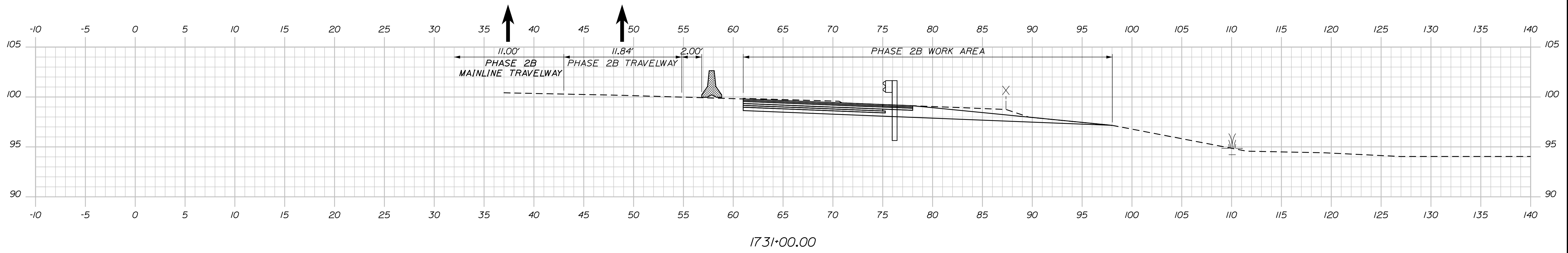
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2B  
MAINLINE AT EXIT 36 NB OFF RAMP

SHEET NUMBER: MOTXS-31  
CONTRACT: 2022.07  
85 OF 735

Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



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No.	Revision	By	Date

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Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

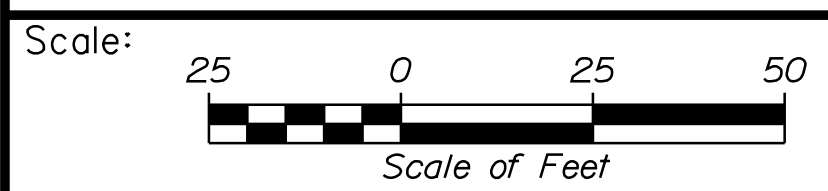
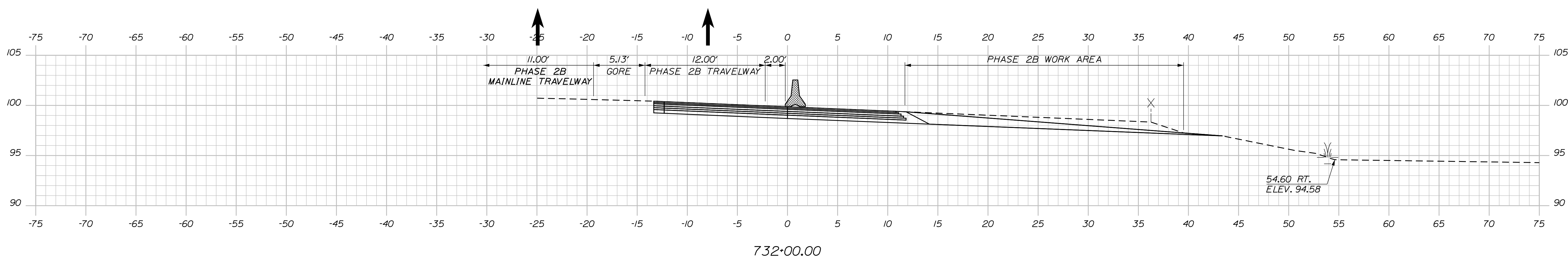
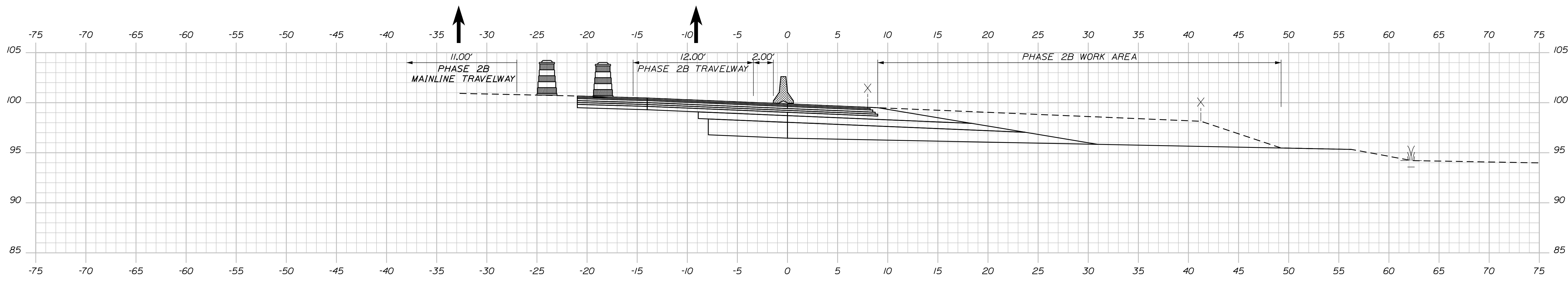
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2B  
MAINLINE AT EXIT 36 NB OFF RAMP

SHEET NUMBER: MOTXS-32  
86 OF 735

CONTRACT: 2022.07

Date: 10/7/2022

Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



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No.	Revision	By	Date

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

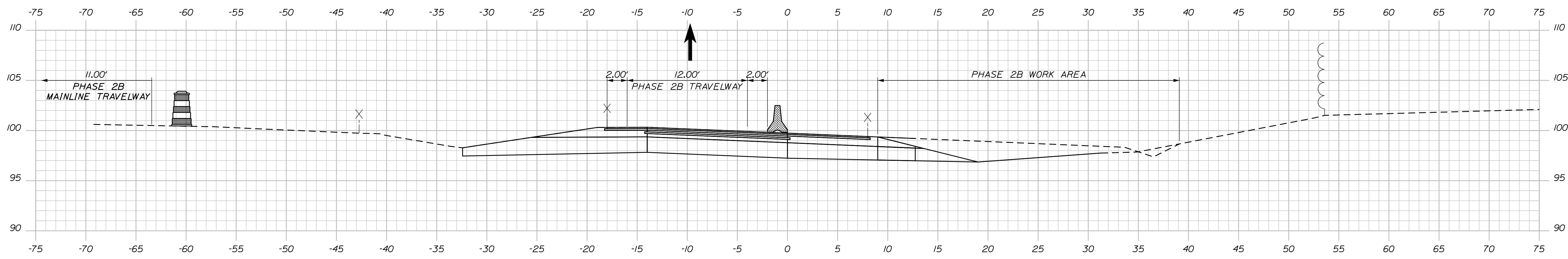
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2B  
EXIT 36 NB OFF RAMP

SHEET NUMBER: MOTXS-33  
87 OF 735

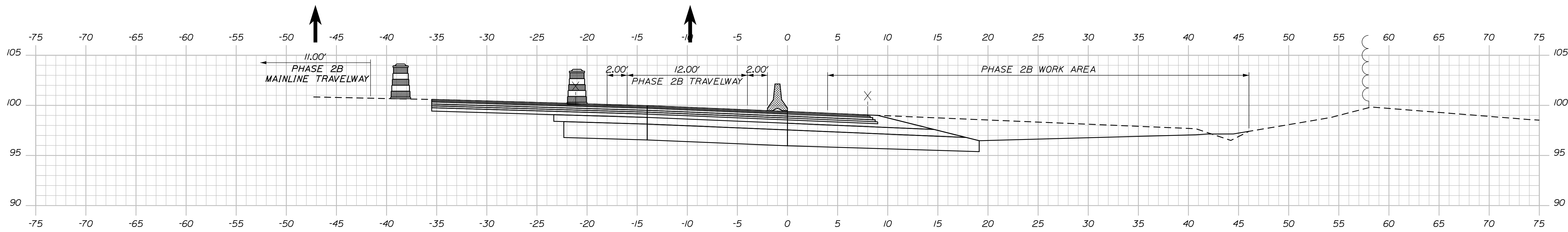
CONTRACT: 2022.07

Date: 10/17/2022

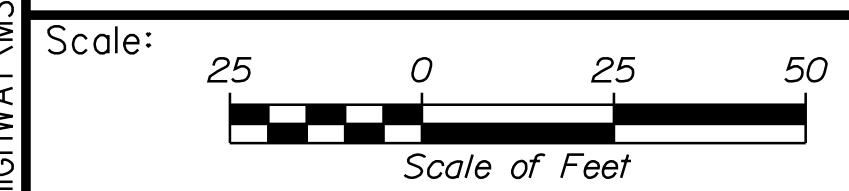
Filename: ... \00\HIGHWAY\MSTA\M0T\_xsect.dgn



735+00.00



734+00.00



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Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - PHASE 2B  
 EXIT 36 NB OFF RAMP

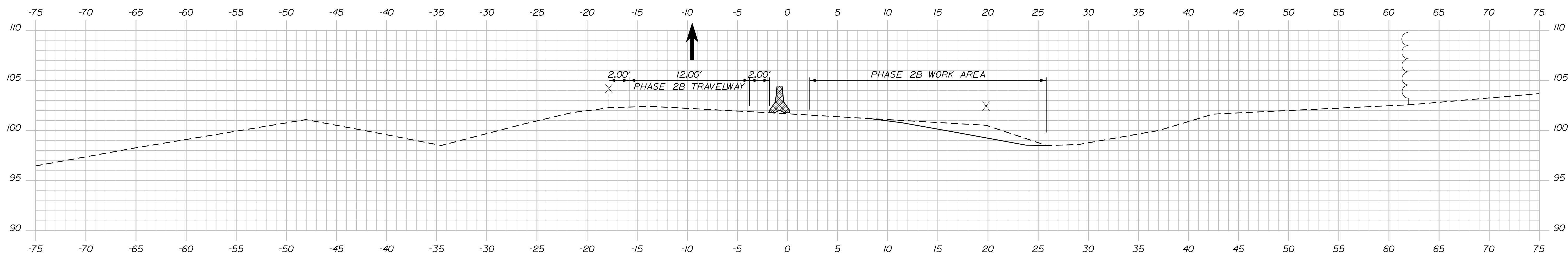
SHEET NUMBER: MOTXS-34  
 88 OF 735

CONTRACT: 2022.07

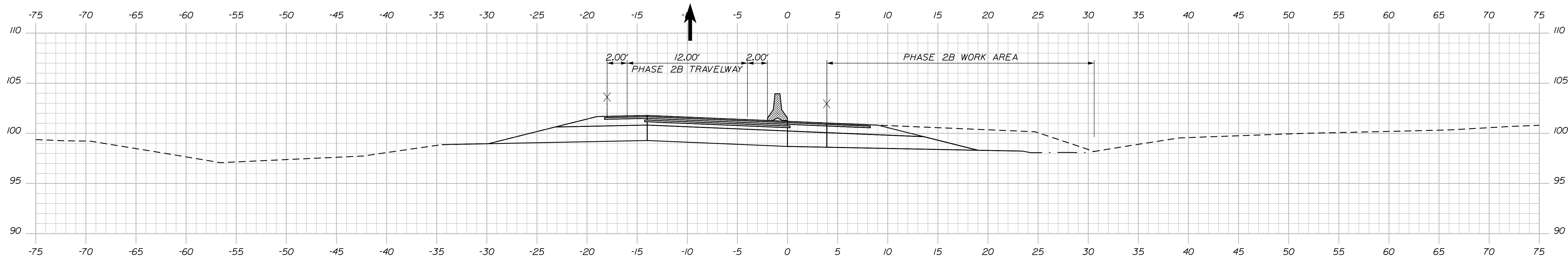


Date: 10/17/2022

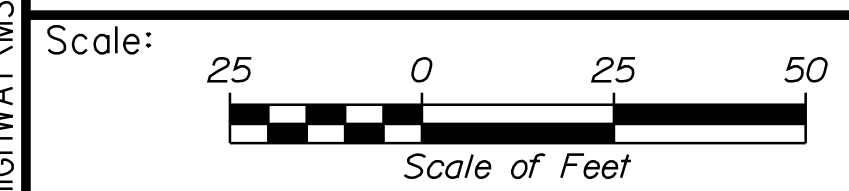
Filename: ...:\00\HIGHWAY\MSTA\M0T\_xsect.dgn



737+00.00



736+00.00



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No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - PHASE 2B  
EXIT 36 NB OFF RAMP

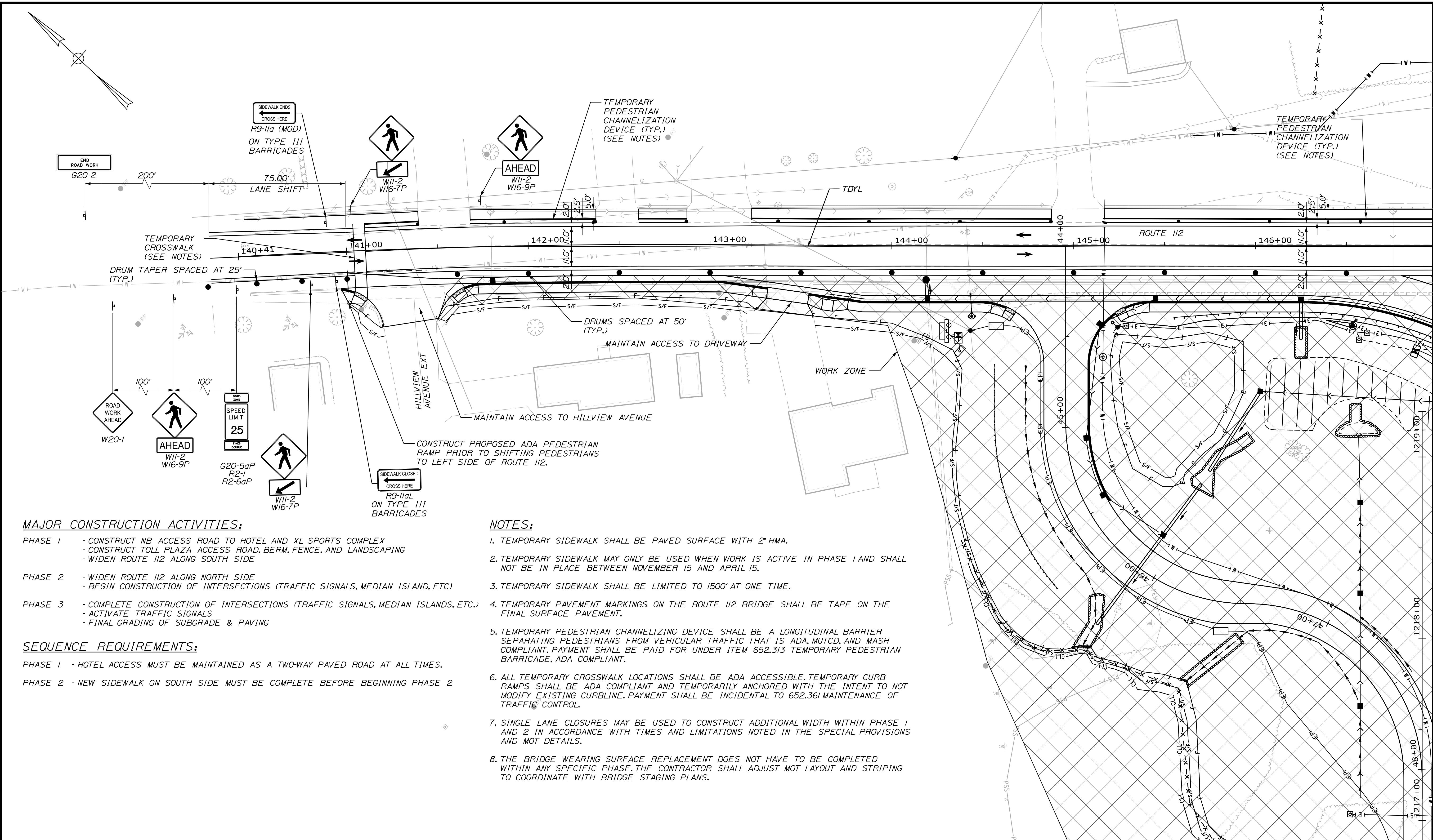
CONTRACT: 2022.07

SHEET NUMBER: MOTXS-35

89 OF 735

Date: 10/17/2022

Filename: ... \MOT\_Phase1\_Route112\_01.dgn



**MAJOR CONSTRUCTION ACTIVITIES:**

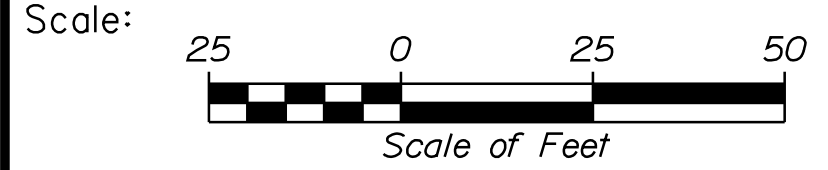
- PHASE 1 - CONSTRUCT NB ACCESS ROAD TO HOTEL AND XL SPORTS COMPLEX  
 - CONSTRUCT TOLL PLAZA ACCESS ROAD, BERM, FENCE, AND LANDSCAPING  
 - WIDEN ROUTE 112 ALONG SOUTH SIDE
- PHASE 2 - WIDEN ROUTE 112 ALONG NORTH SIDE  
 - BEGIN CONSTRUCTION OF INTERSECTIONS (TRAFFIC SIGNALS, MEDIAN ISLAND, ETC)
- PHASE 3 - COMPLETE CONSTRUCTION OF INTERSECTIONS (TRAFFIC SIGNALS, MEDIAN ISLANDS, ETC.)  
 - ACTIVATE TRAFFIC SIGNALS  
 - FINAL GRADING OF SUBGRADE & PAVING

**SEQUENCE REQUIREMENTS:**

- PHASE 1 - HOTEL ACCESS MUST BE MAINTAINED AS A TWO-WAY PAVED ROAD AT ALL TIMES.
- PHASE 2 - NEW SIDEWALK ON SOUTH SIDE MUST BE COMPLETE BEFORE BEGINNING PHASE 2

**NOTES:**

1. TEMPORARY SIDEWALK SHALL BE PAVED SURFACE WITH 2" HMA.
2. TEMPORARY SIDEWALK MAY ONLY BE USED WHEN WORK IS ACTIVE IN PHASE 1 AND SHALL NOT BE IN PLACE BETWEEN NOVEMBER 15 AND APRIL 15.
3. TEMPORARY SIDEWALK SHALL BE LIMITED TO 1500' AT ONE TIME.
4. TEMPORARY PAVEMENT MARKINGS ON THE ROUTE 112 BRIDGE SHALL BE TAPE ON THE FINAL SURFACE PAVEMENT.
5. TEMPORARY PEDESTRIAN CHANNELIZING DEVICE SHALL BE A LONGITUDINAL BARRIER SEPARATING PEDESTRIANS FROM VEHICULAR TRAFFIC THAT IS ADA, MUTCD, AND MASH COMPLIANT. PAYMENT SHALL BE PAID FOR UNDER ITEM 652.313 TEMPORARY PEDESTRIAN BARRICADE, ADA COMPLIANT.
6. ALL TEMPORARY CROSSWALK LOCATIONS SHALL BE ADA ACCESSIBLE. TEMPORARY CURB RAMPS SHALL BE ADA COMPLIANT AND TEMPORARILY ANCHORED WITH THE INTENT TO NOT MODIFY EXISTING CURBLINE. PAYMENT SHALL BE INCIDENTAL TO 652.361 MAINTENANCE OF TRAFFIC CONTROL.
7. SINGLE LANE CLOSURES MAY BE USED TO CONSTRUCT ADDITIONAL WIDTH WITHIN PHASE 1 AND 2 IN ACCORDANCE WITH TIMES AND LIMITATIONS NOTED IN THE SPECIAL PROVISIONS AND MOT DETAILS.
8. THE BRIDGE WEARING SURFACE REPLACEMENT DOES NOT HAVE TO BE COMPLETED WITHIN ANY SPECIFIC PHASE. THE CONTRACTOR SHALL ADJUST MOT LAYOUT AND STRIPING TO COORDINATE WITH BRIDGE STAGING PLANS.



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No.	Revision	By	Date

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Designed	PLP	10\22	Checked	LEM	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

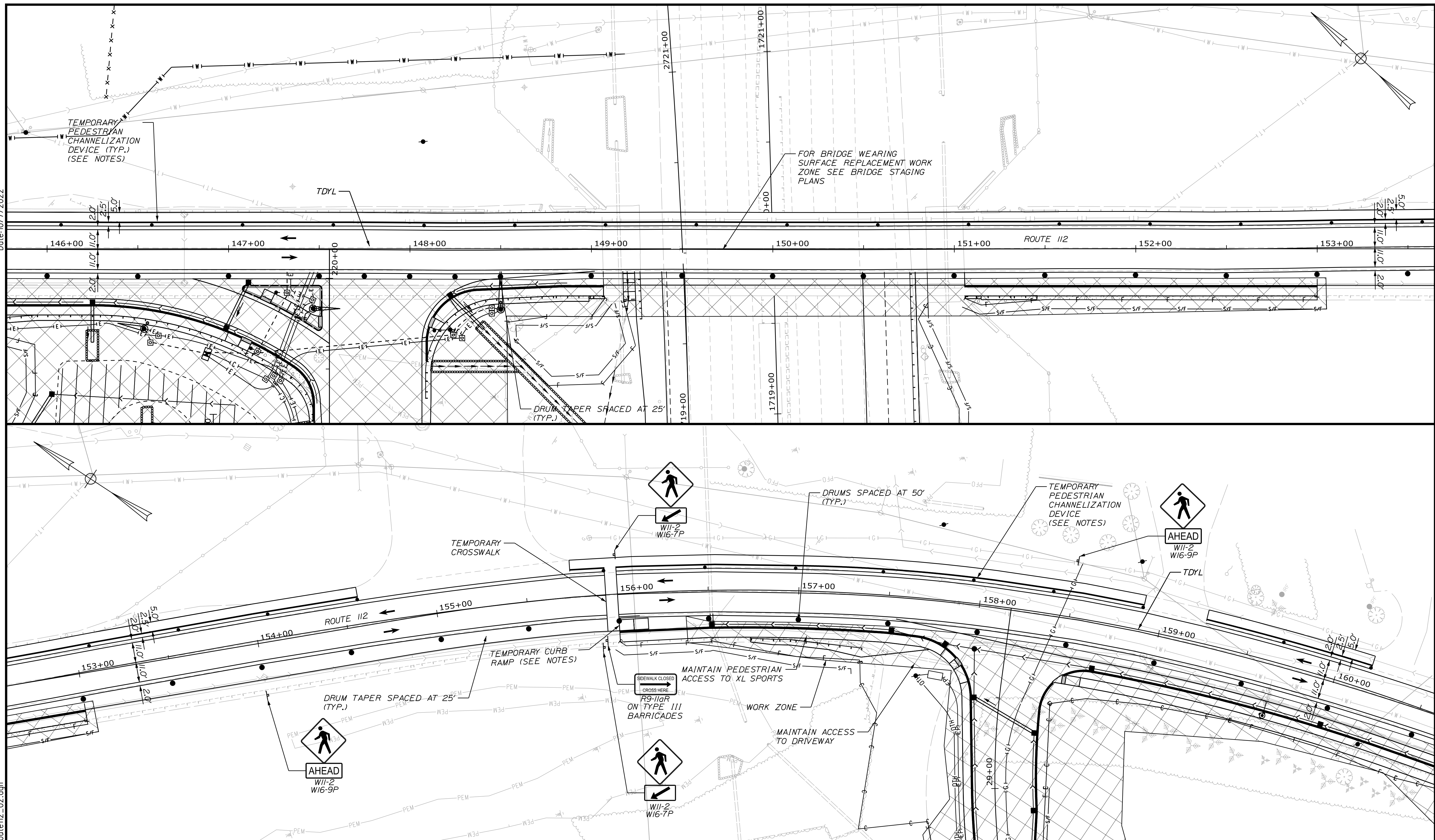
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - ROUTE 112  
 PHASE 1 - PLAN 1**

SHEET NUMBER: MOT-33  
 CONTRACT: 2022.07  
 90 OF 735

Date: 10/7/2022

Filename: ... \MOT\_Phase1\_Route112\_02.dgn



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

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Designed	PLP	10\22	Checked	LEM	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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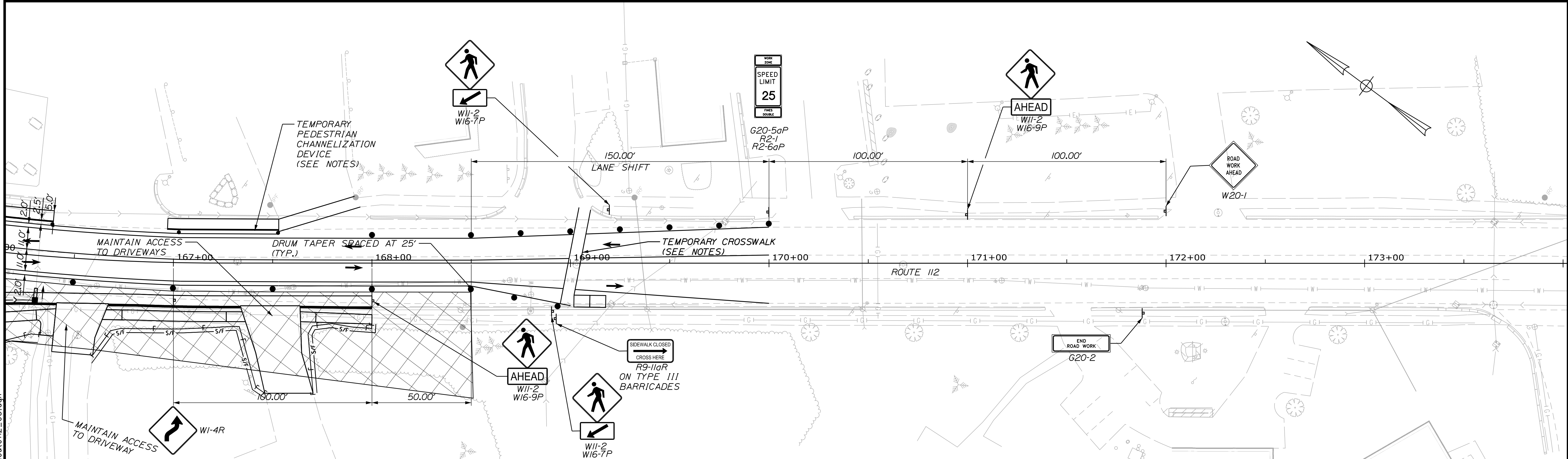
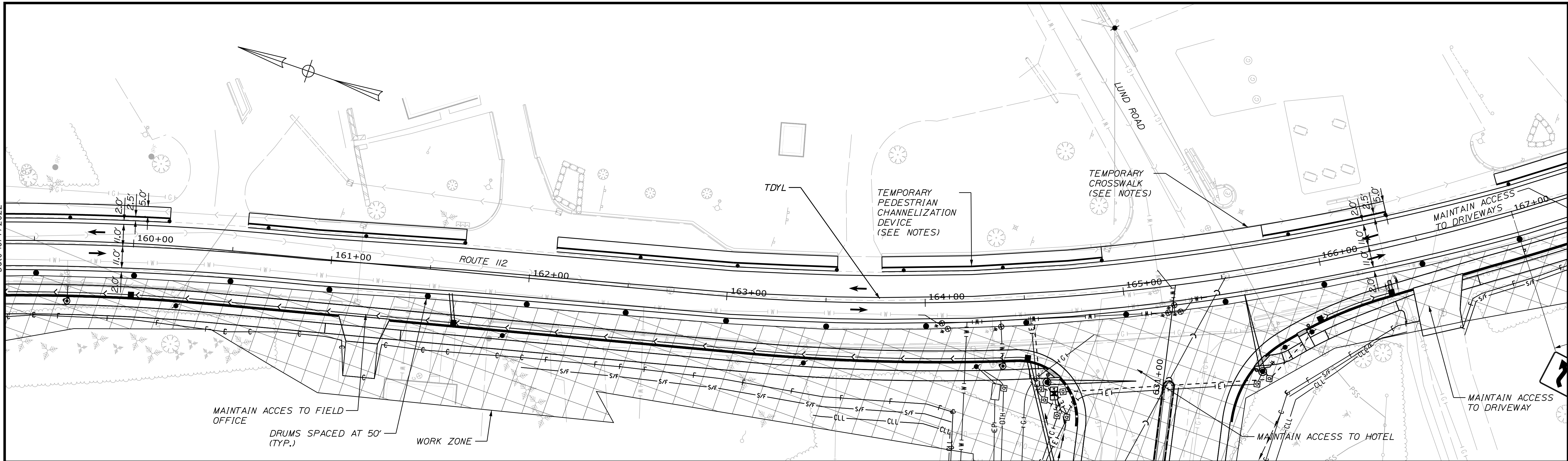
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - ROUTE 112  
PHASE 1 - PLAN 2

SHEET NUMBER: MOT-34  
91 OF 735

CONTRACT: 2022.07

Date: 10/7/2022



Filename: ... \MOT\_Phase1\_Route112\_03.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

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	By	Date	By	Date	
Designed	PLP	10\22	Checked	LEM	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

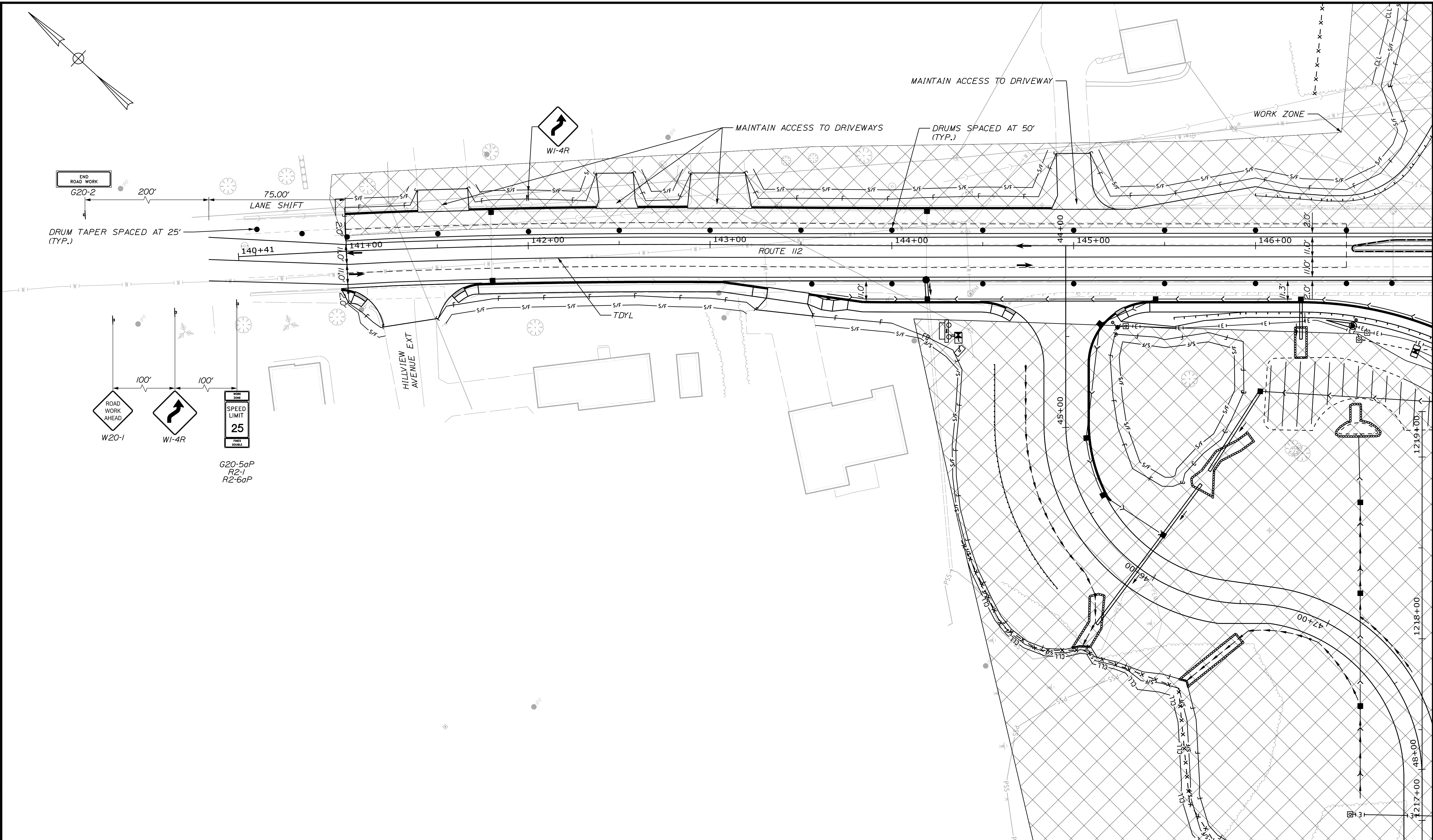
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - ROUTE 112  
PHASE 1 - PLAN 3

SHEET NUMBER: MOT-35  
92 OF 735

CONTRACT: 2022.07


Date: 10/7/2022

Filename: ... \MOT\_Phase2\_Route112\_01.dgn



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

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Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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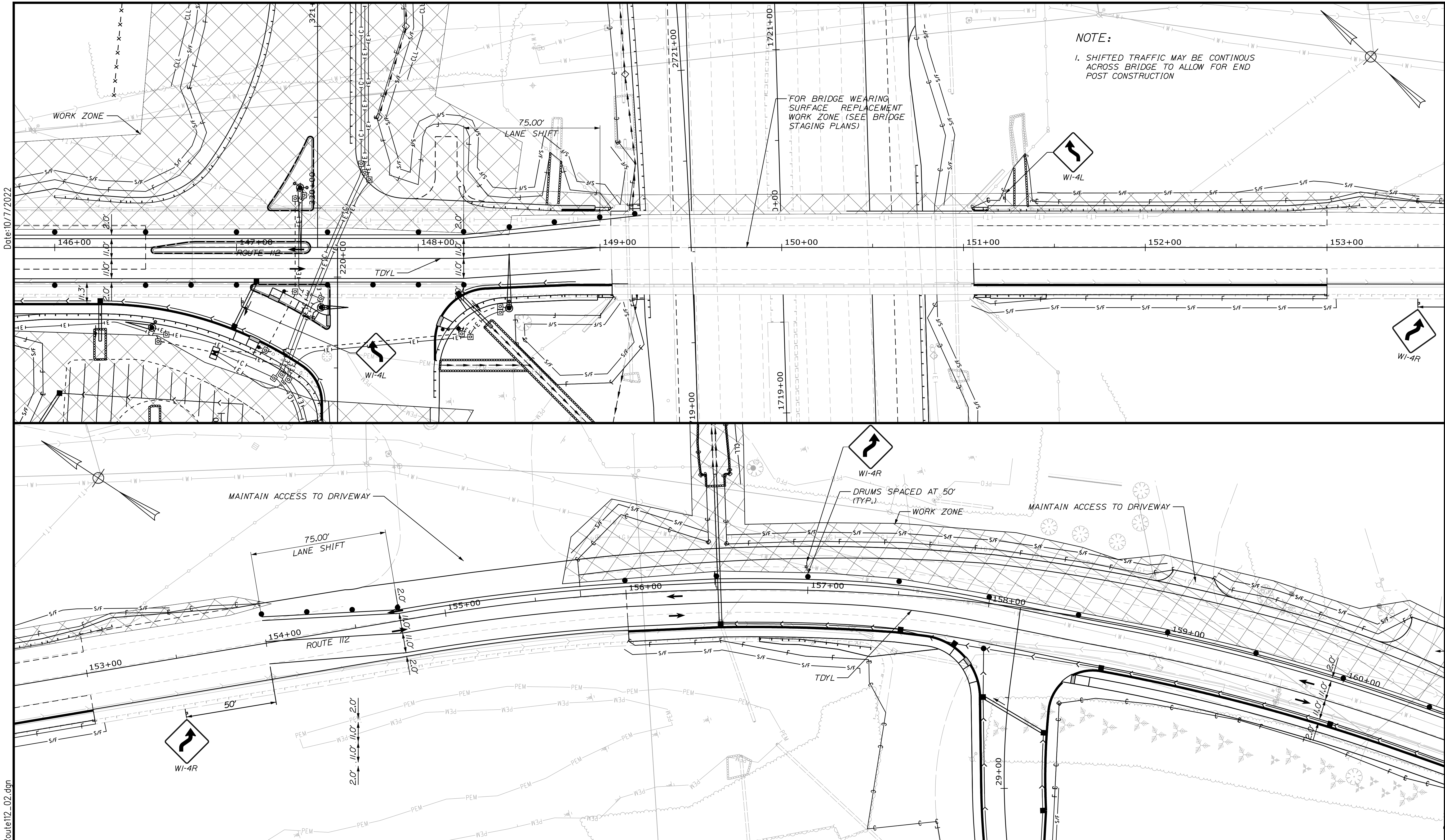
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - ROUTE 112  
PHASE 2 - PLAN 1

SHEET NUMBER: MOT-36  
93 OF 735

CONTRACT: 2022.07



NOTE:  
 1. SHIFTED TRAFFIC MAY BE CONTINUOUS ACROSS BRIDGE TO ALLOW FOR END POST CONSTRUCTION

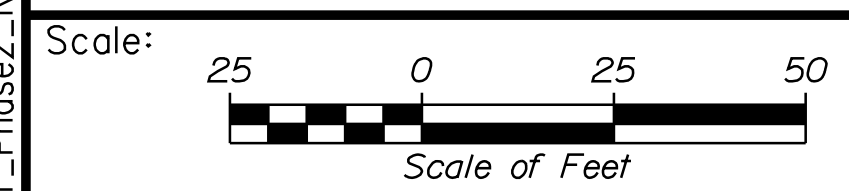
FOR BRIDGE WEARING SURFACE REPLACEMENT WORK ZONE (SEE BRIDGE STAGING PLANS)

MAINTAIN ACCESS TO DRIVEWAY

MAINTAIN ACCESS TO DRIVEWAY

Date: 10/17/2022

Filename: ... \MOT\_Phase2\_Route112\_02.dgn



Designed by:



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 MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC - ROUTE 112  
 PHASE 2 - PLAN 2**

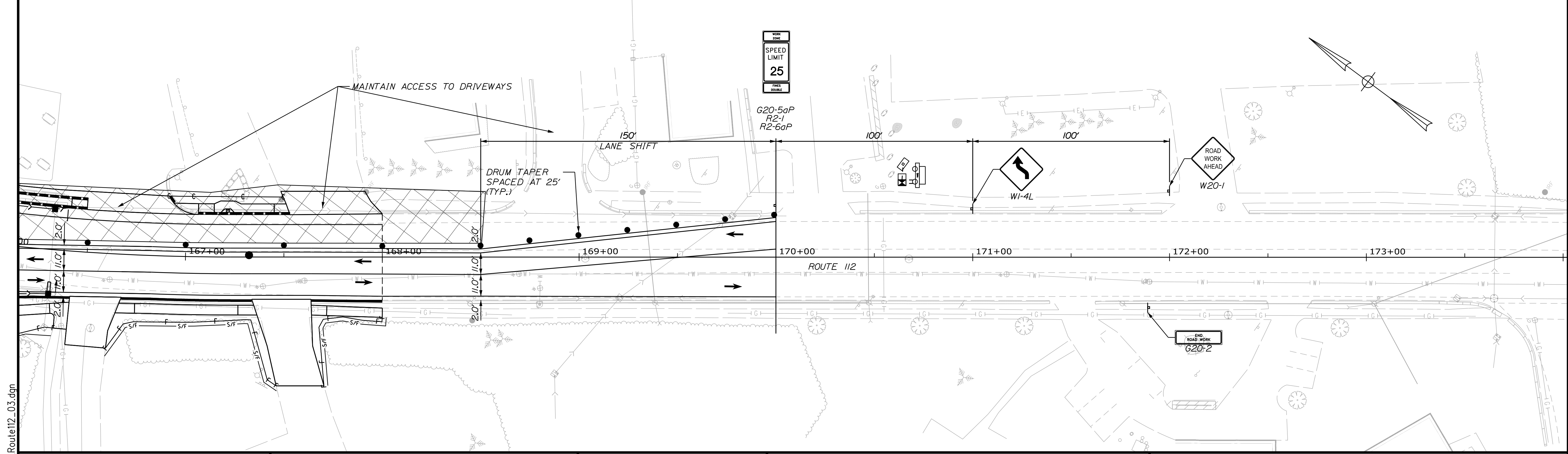
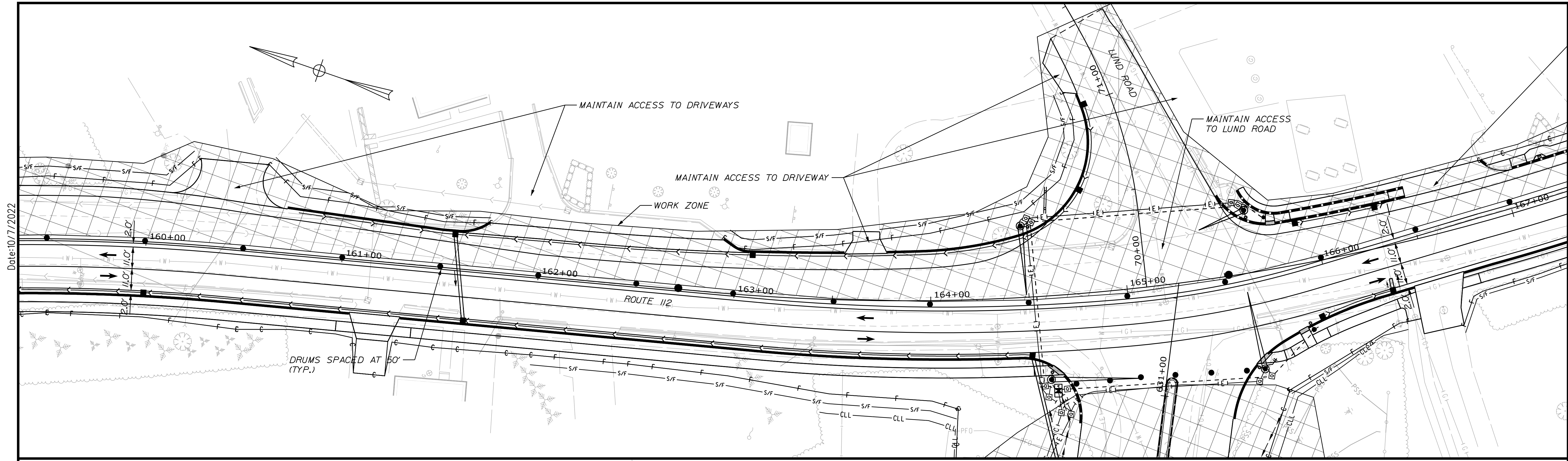
No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
	By	Date	
Designed	JRH	10\22	Checked
Drawn	CHL	10\22	In Charge of

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07


SHEET NUMBER: MOT-37  
 94 OF 735



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

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MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC - ROUTE 112  
PHASE 2 - PLAN 3

SHEET NUMBER: MOT-38  
CONTRACT: 2022.07  
95 OF 735

Date: 10/7/2022

Filename: ... \MOT\_Phase2\_Route112\_03.dgn

Date: 10/17/2022

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
CS-1	78"	14"	RAMP CLOSED	ORANGE	BLACK	8" C	2" 2"		1	7.58	8
CS-2	78"	14"	USE EXIT 36	ORANGE	BLACK	8" C/10" C	2" 2"		2	7.58	16
CS-3	48"	48"	EXPECT STOPPED TRAFFIC	ORANGE	BLACK	6" C 6" C 6" C	4" 4"		4	16.00	64
CS-4	48"	48"	EXIT CLOSED AHEAD	ORANGE	BLACK	6" C 6" C 6" C	4" 4"		2	16.00	32
CS-5	60"	48"	WIDE LOADS OVER 10 FEET PROHIBITED ON I12 BRIDGE OVER TURNPIKE	ORANGE	BLACK	5" C 5" C 5" C 5" C	3" 3" 3" 3"		12	20.00	240
CS-10	48"	48"	TRUCKS ENTERING	ORANGE	BLACK	7" C 7" C	6"		6	16.00	96
CS-11	48"	48"	NO STOPPING ON PAVEMENT	ORANGE	BLACK	6" C 6" C 6" C	4" 4"		6	16.00	96
CS-22	48"	48"	CONSTRUCTION ENTRANCE	ORANGE	BLACK	6" C 6" C	4" 4"		6	16.00	96
CS-33	96"	36"	WATCH FOR TRUCKS ENTERING AND LEAVING WORK AREA	ORANGE	BLACK	6" C 6" C 6" C	4" 4"		4	24.00	96
CS-44	60"	36"	EXIT 36 KEEP RIGHT	ORANGE	BLACK	8" C 8" C	7" 6" 7"		4	15.00	60
E5-1	48"	36"	EXIT	GREEN	WHITE	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			4	12.00	48

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
E5-2	48"	36"	EXIT OPEN	ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			2	12.00	24
E5-2a	48"	36"	RAMP CLOSED	ORANGE	BLACK				8	12.00	96
G20-2	48"	24"	END ROAD WORK	ORANGE	BLACK				14	8.00	112
G20-5aP	48" 36"	36" 24"	WORK ZONE	ORANGE	BLACK				10 2	12.00 6.00	120 12
R1-1	48"	48"	STOP	RED	WHITE				1	16.00	16
R1-2	60"	60"	60"	RED	WHITE				1	12.50	13
R2-1 (60) (50) (25)	48" 48" 36"	60" 60" 48"	SPEED LIMIT 60	WHITE	BLACK				10 4 2	20.00 20.00 12.00	200 80 24
R2-6aP	48" 24"	36" 18"	FINES DOUBLE	WHITE	BLACK				8 2	12.00 3.00	96 6
R2-12	36"	54"	END WORK ZONE SPEED LIMIT	ORANGE	BLACK				8	13.50	108
R4-9	36"	48"	STAY IN LANE	WHITE	BLACK				8	12.00	96
R5-1	48"	48"	DO NOT ENTER	RED	WHITE				1	16.00	16

Scale:

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MAINTENANCE OF TRAFFIC  
SIGN SUMMARY 1

SHEET NUMBER: MOT-39  
CONTRACT: 2022.07  
96 OF 735



Date:10/7/2022

Filename: ...00\HIGHWAY\WSTA\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
R5-11	30"	24"		WHITE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	5.00	5
R9-11a (L) (R) (MOD)	24"	12"		WHITE	BLACK				1 2 1	2.00	2 4 2
W1-4 (L) (R)	48"	48"		ORANGE	BLACK				4 4	16.00	64 64
W1-4b (L) (R)	48"	48"		ORANGE	BLACK				4 4	16.00	64 64
W1-4c (L) (R)	48"	48"		ORANGE	BLACK				4 4	16.00	64 64
W3-1	48"	48"		ORANGE	BLACK				1	16.00	16
W3-2	48"	48"		ORANGE	BLACK				1	16.00	16
W3-4	48"	48"		ORANGE	BLACK				4	16.00	64
W3-5 (60) (50)	48"	48"		ORANGE	BLACK				8 4	16.00	128 64
W4-1	48"	48"		ORANGE	BLACK				1	16.00	16
W4-2 (L) (R)	48"	48"		ORANGE	BLACK				8 8	16.00	128 128

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
W4-5P	24"	30"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			1	5.00	5
W5-1	48"	48"		ORANGE	BLACK				4	16.00	64
W5-4	48"	48"		ORANGE	BLACK				2	16.00	32
W7-3aP (1 MILE) (2 MILES)	36"	30"		ORANGE	BLACK				2 2	7.50	15 15
W8-1	48"	48"		ORANGE	BLACK				4	16.00	64
W8-24a	48"	48"		ORANGE	BLACK				4	16.00	64
W11-2	48"	48"		FLUORESCENT YELLOW	BLACK				12	16.00	192
W13-1P (35 MPH)	30"	30"		ORANGE	BLACK				2	6.25	13
W13-4P	36"	36"		ORANGE	BLACK				2	9.00	18
W16-2P (1500 FT)	30"	24"		ORANGE	BLACK				4	5.0	20
W16-4P (500 FEET)	30"	24"		ORANGE	BLACK				4	5.0	20

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC  
 SIGN SUMMARY 2

SHEET NUMBER: MOT-40  
 CONTRACT:2022.07  
 97 OF 735

Date:10/17/2022

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
W16-7P	24"	12"		FLUORESCENT YELLOW	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			6	2.00	12
W16-9P	24"	12"	AHEAD	FLUORESCENT YELLOW	BLACK				6	2.00	12
W20-1 (AHEAD) (1 MILE)	48"	48"		ORANGE	BLACK				7 8	16.00	112 128
W20-4	48"	48"		ORANGE	BLACK				2	16.00	32
W20-5R (LEFT) (RIGHT)	48"	48"		ORANGE	BLACK				4 4	16.00	64 64
W20-5a (LEFT) (RIGHT)	48"	48"		ORANGE	BLACK				4 4	16.00	64 64
W20-7	48"	48"		ORANGE	BLACK				2	16.00	32
W21-5	48"	48"		ORANGE	BLACK				6	16.00	96
W21-5a (L) (R)	48"	48"		ORANGE	BLACK				2 10	16.00	32 160
W21-5b (LT) (RT)	48"	48"		ORANGE	BLACK				2 2	16.00	32 32
W22-1	48"	48"		ORANGE	BLACK				2	16.00	32

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
W22-2	42"	36"		ORANGE	BLACK	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS"			2	10.5	21
W22-3	42"	36"		ORANGE	BLACK				2	10.5	21

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

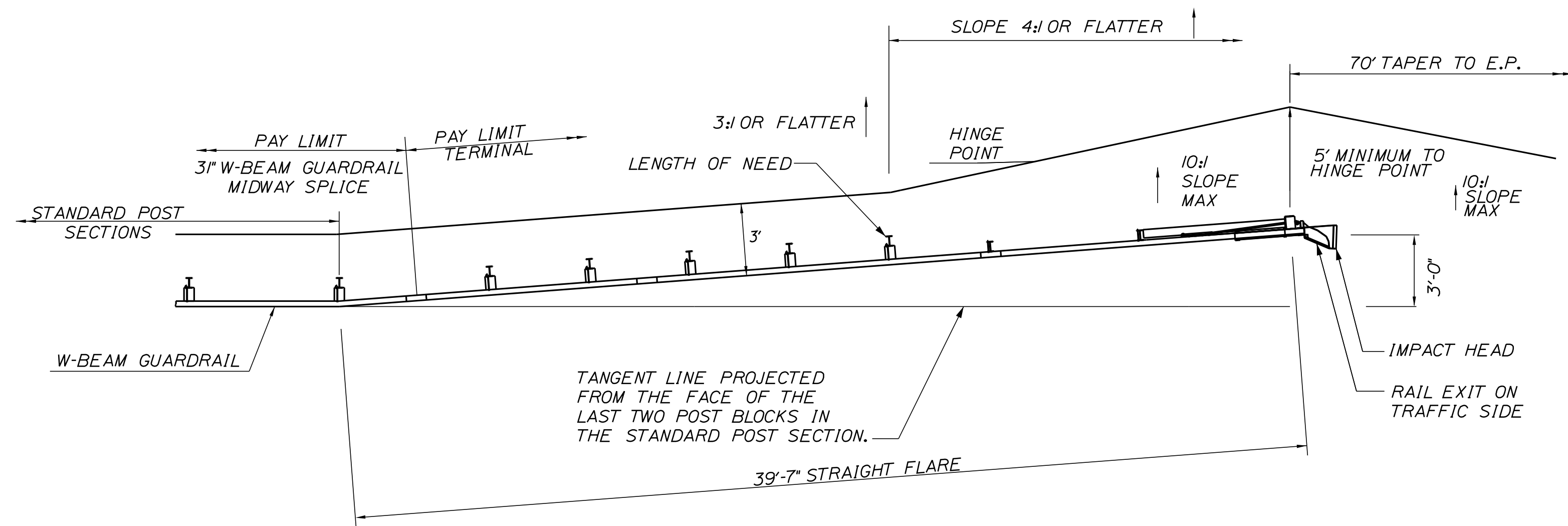
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 MAINTENANCE OF TRAFFIC  
 SIGN SUMMARY 3

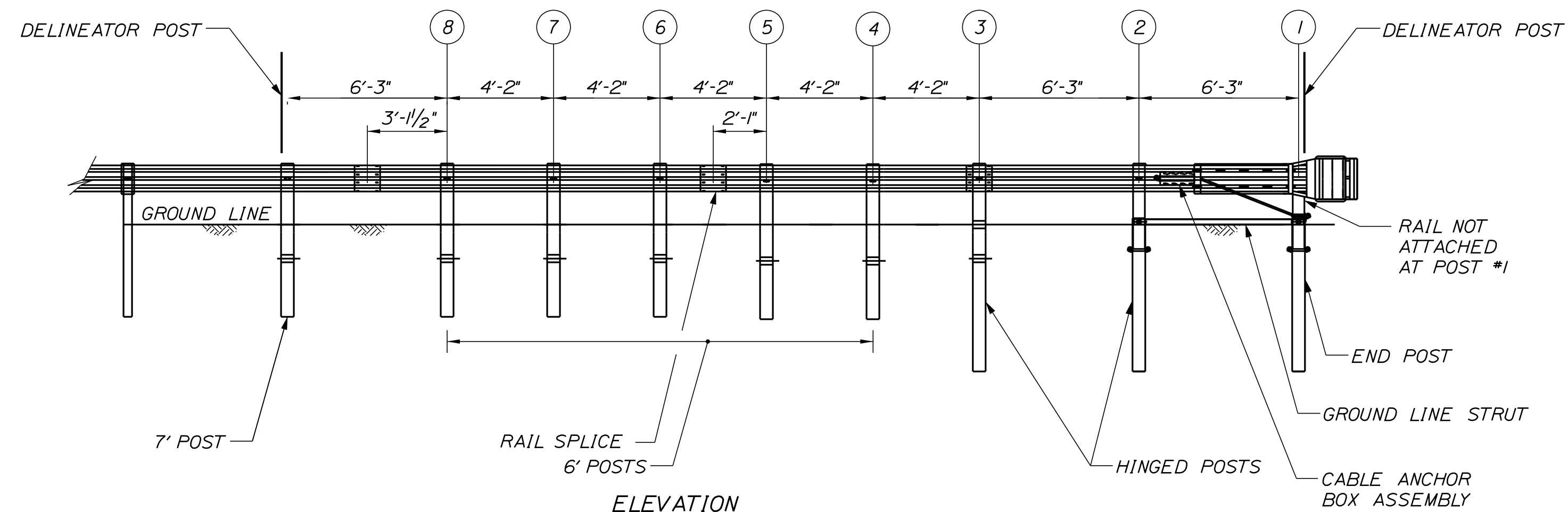
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 CONTRACT:2022.07  
 98 OF 735

Date: 10/17/2022

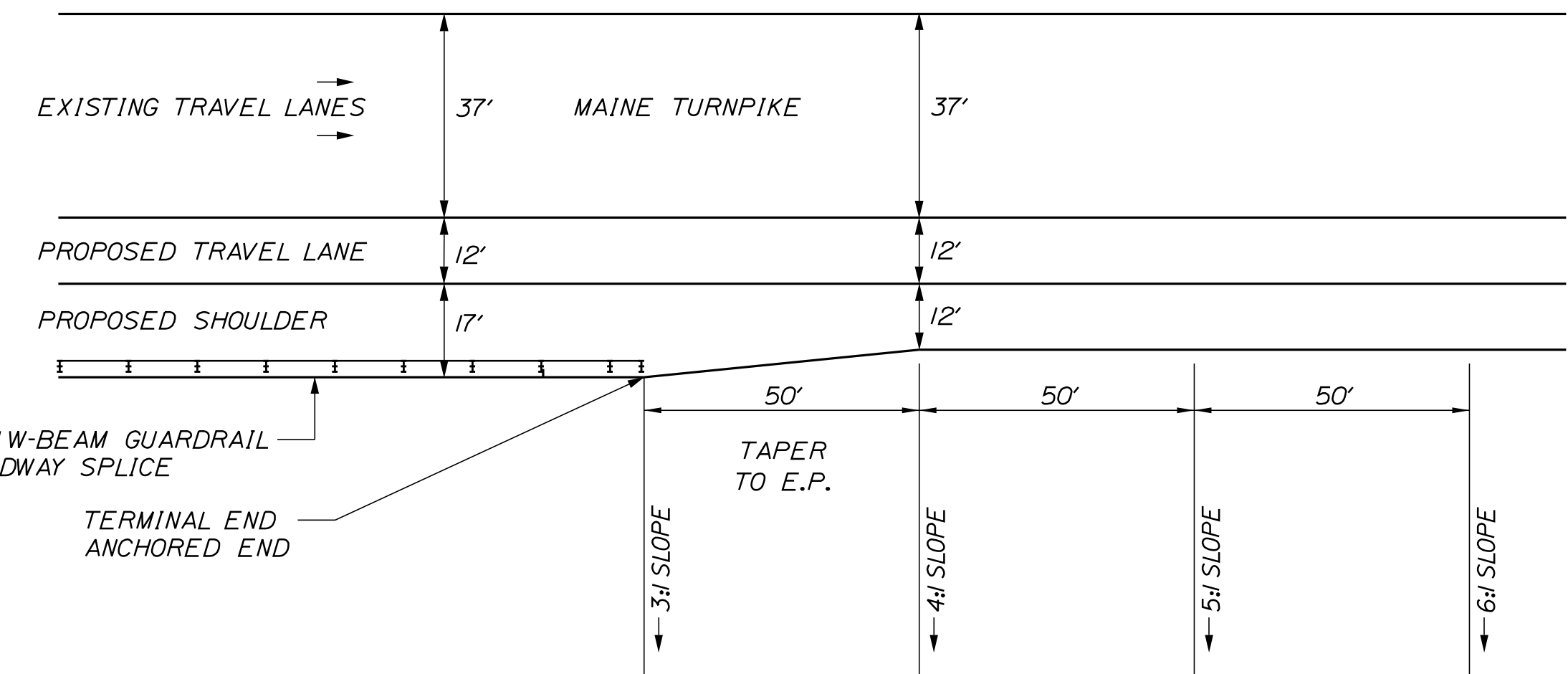
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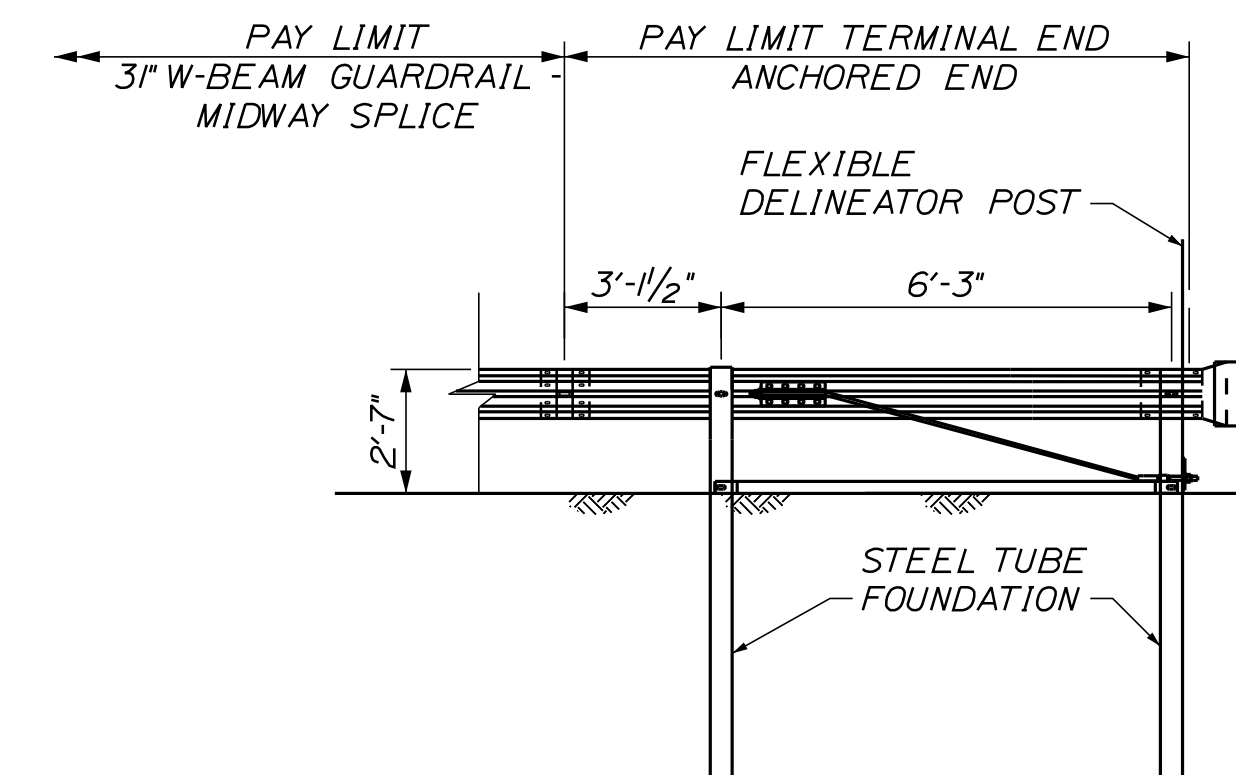
PLAN



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



TERMINAL END - ANCHORED END - 31" W-BEAM GUARDRAIL



TERMINAL END - ANCHORED END - 31" W-BEAM GUARDRAIL  
(ITEM 606.1351)  
NOT TO SCALE

NOTES:  
1. THIS DETAIL MODIFIES THE SEW31 DRAWING SUCH THAT W-BEAM DOES NOT EXTEND BEYOND THE LAST GUARDRAIL POST. THE RWM140 W-BEAM PANEL SHALL HAVE A LENGTH OF 9'-4 1/2" MEASURED FROM THE CENTER OF THE MIDWAY SPLICE TO THE CENTER OF THE LAST GUARDRAIL POST.

**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 MEASURED FROM 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. SEE SPECIFICATIONS FOR REFLECTIVE SHEETING REQUIREMENTS.
7. TERMINAL UNIT SHALL BE MFLEAT AND MASH CERTIFIED AS MANUFACTURED BY ROAD SYSTEMS INC.

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

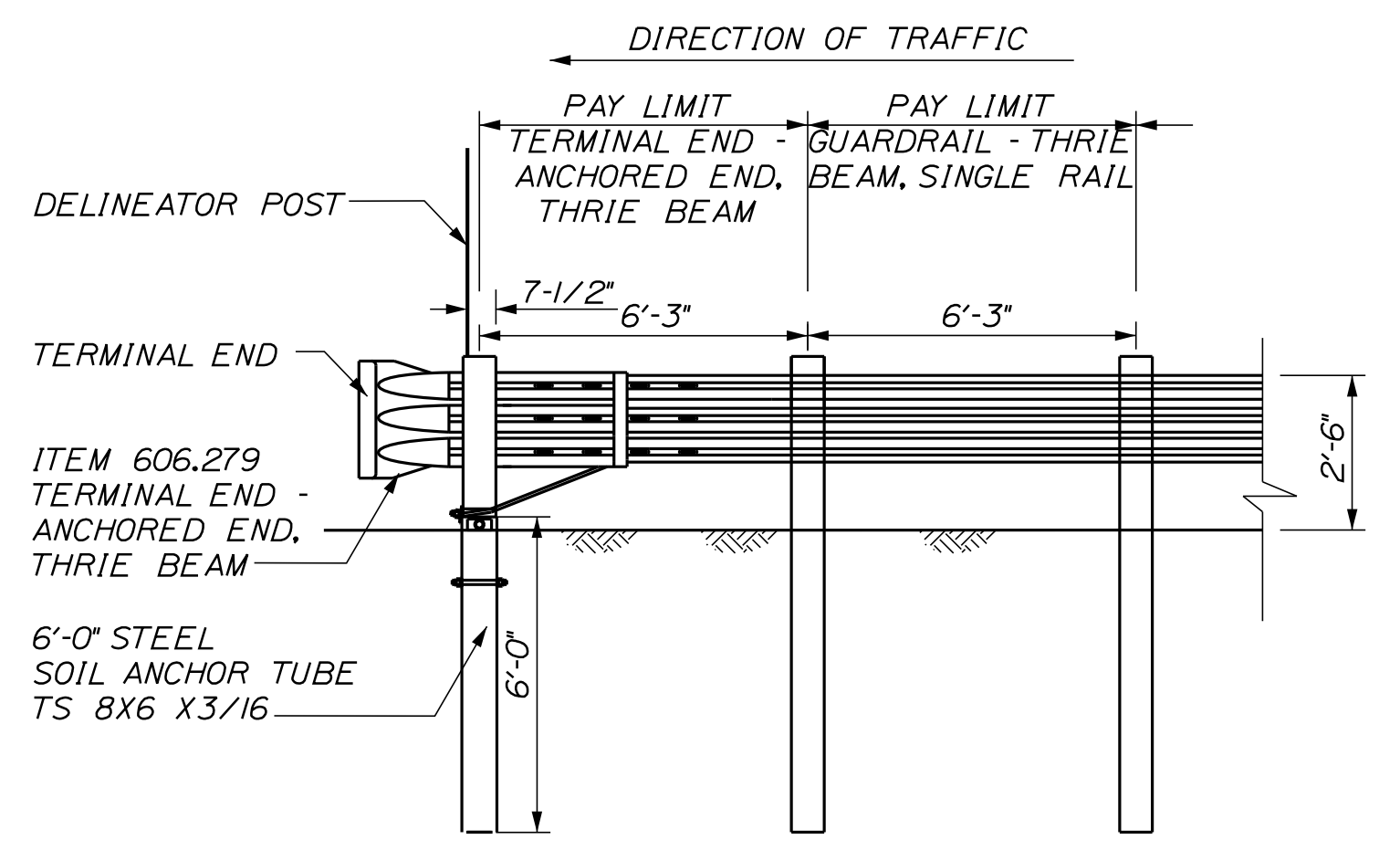
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GUARDRAIL DETAILS 1

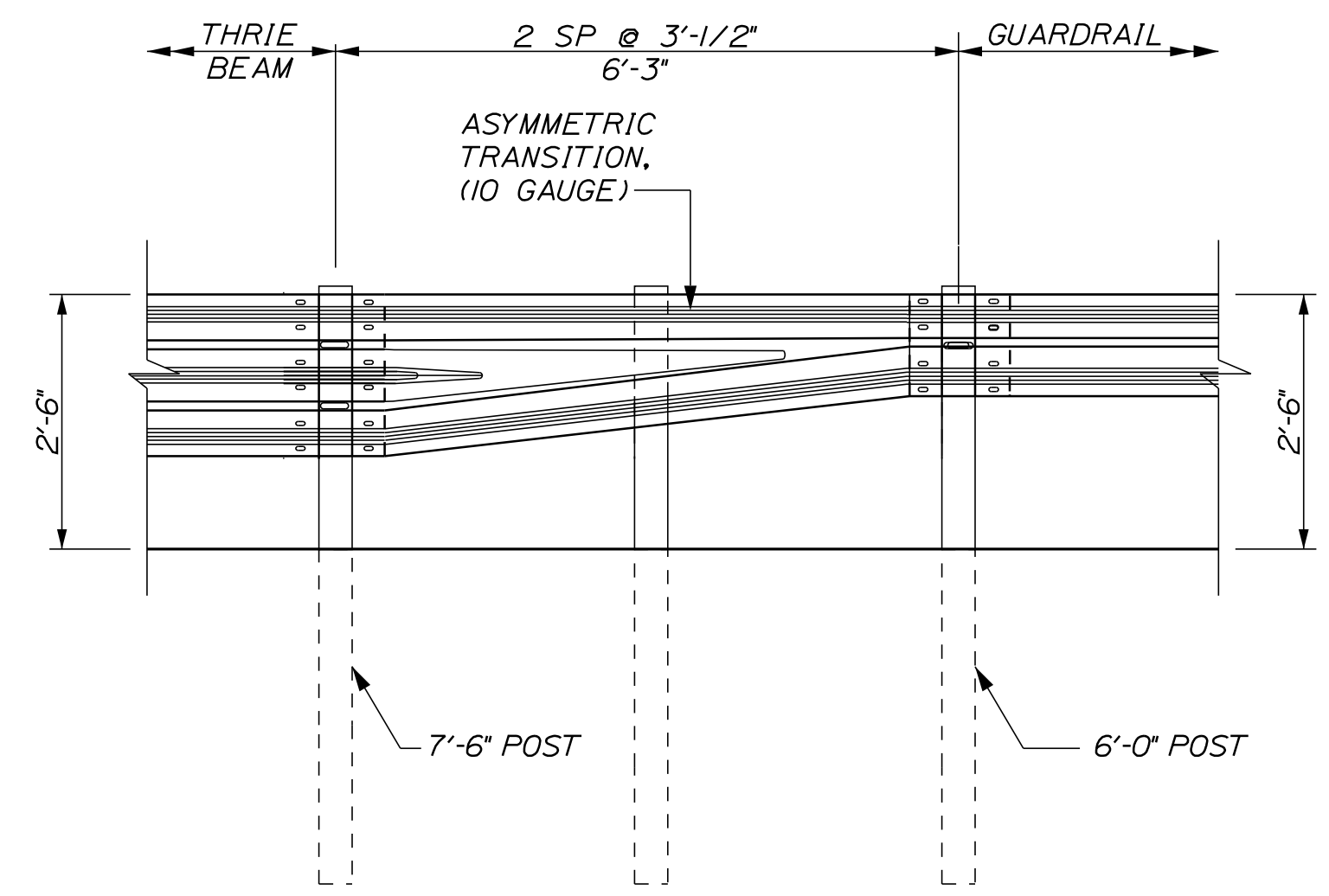
SHEET NUMBER: DET-01  
CONTRACT: 2022.07  
99 OF 735

Date: 10/17/2022

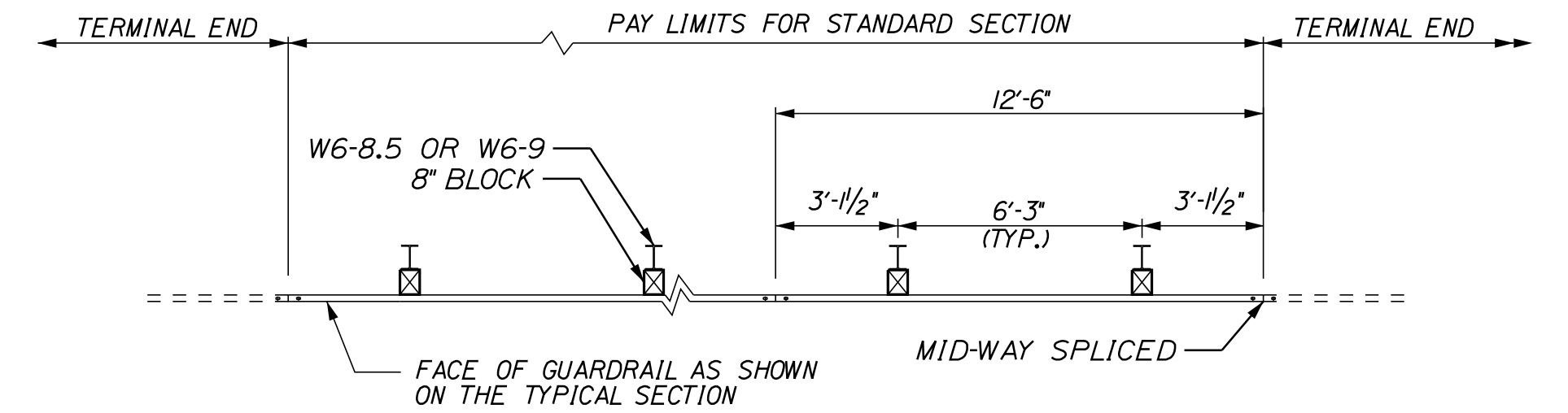
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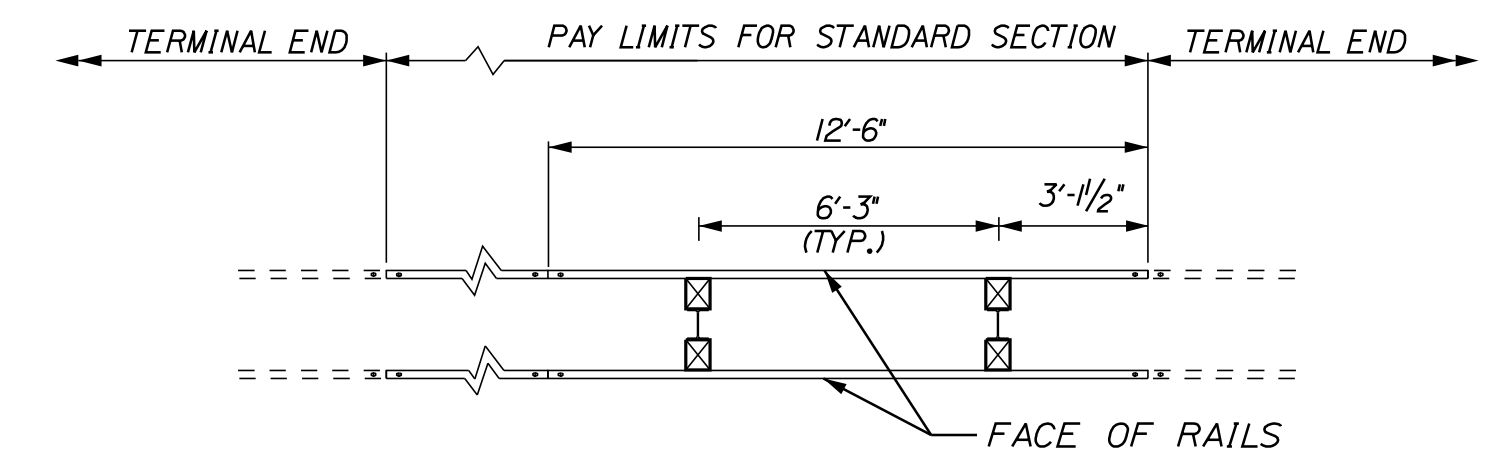
TERMINAL END - ANCHORED END, THRIE BEAM  
NOT TO SCALE



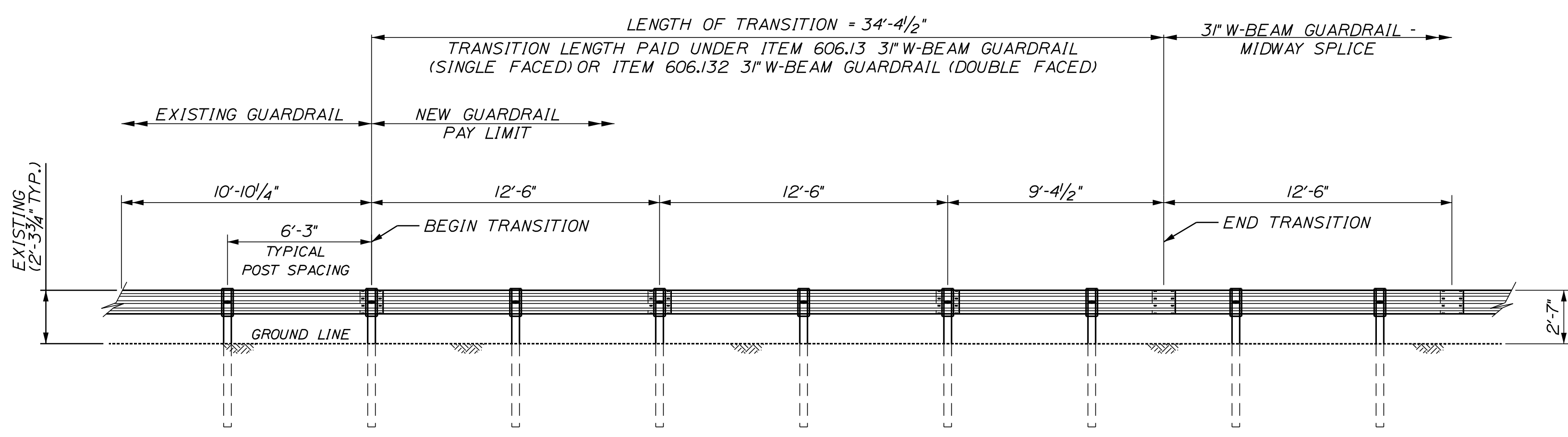
W-BEAM TO THRIE BEAM TRANSITION SECTION  
NOT TO SCALE



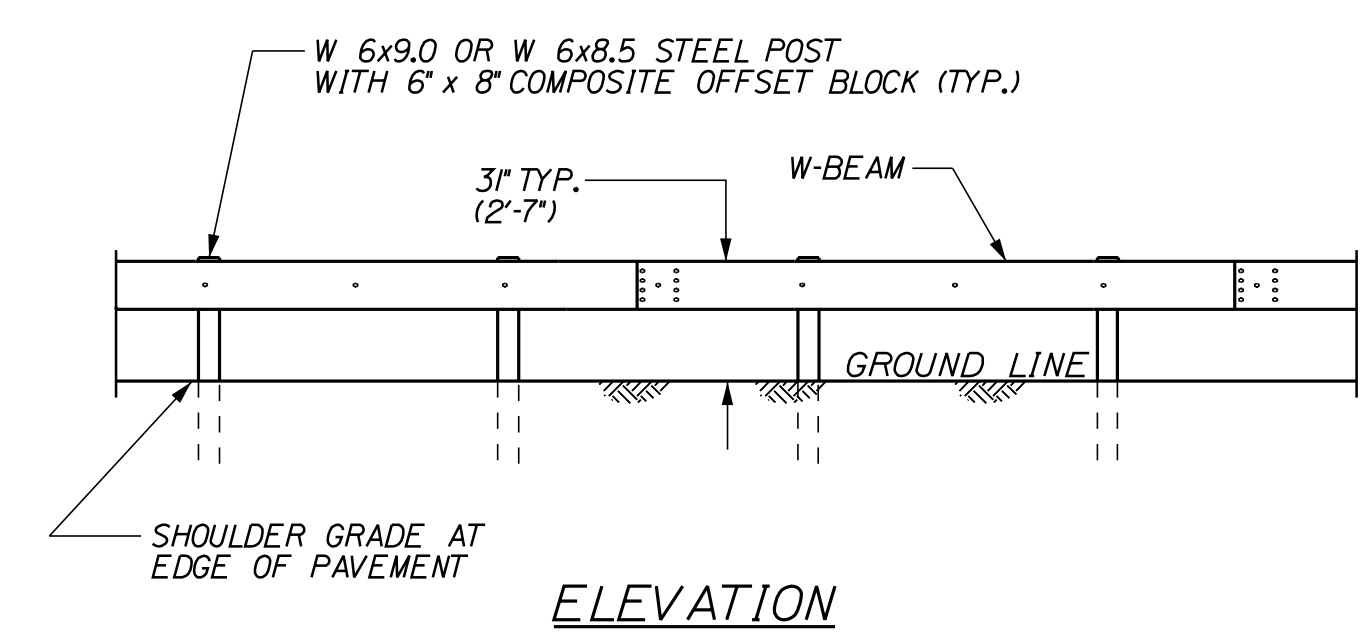
PLAN - SINGLE FACED



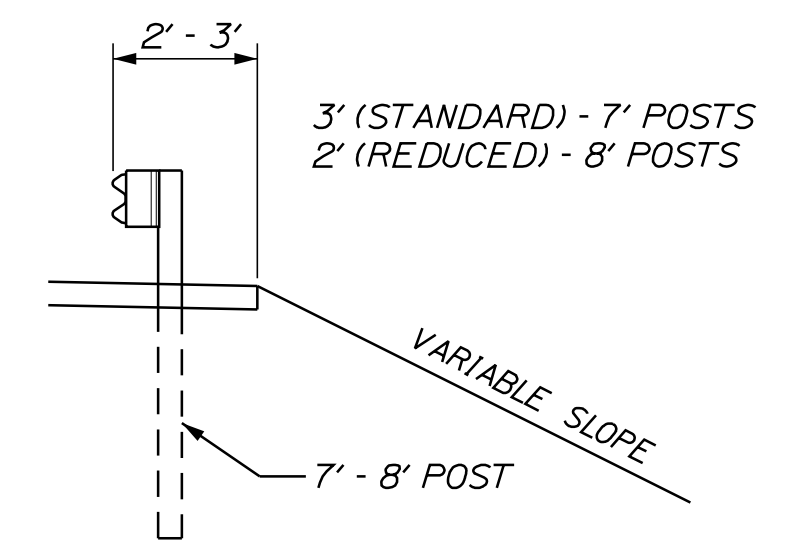
PLAN - DOUBLE FACED



TRANSITION FROM EXISTING GUARDRAIL TO 3\"/>



ELEVATION



CROSS-SECTION

3\"/>

NOTES:

1. MAINTAIN STANDARD 1\"/>

GENERAL GUARDRAIL INSTALLATION NOTE:

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

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

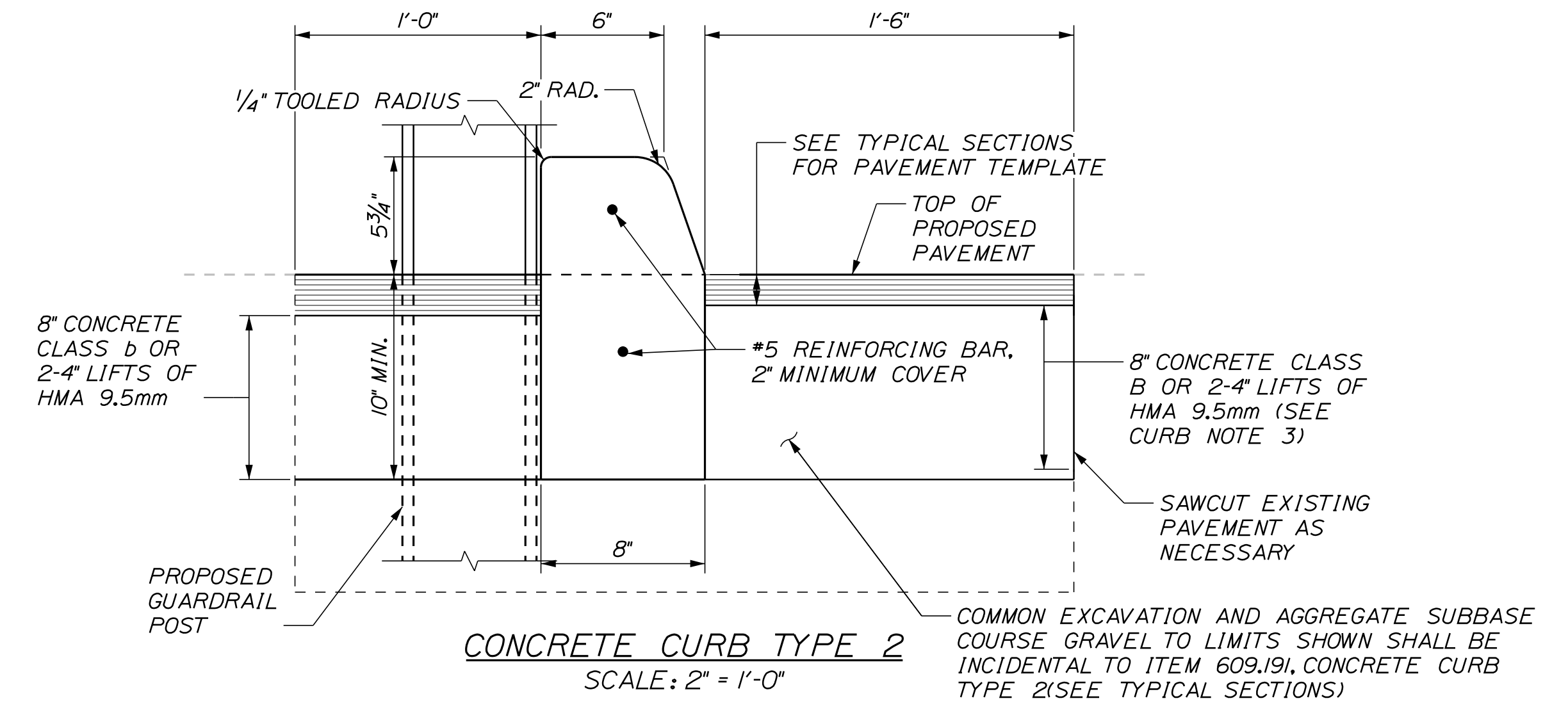
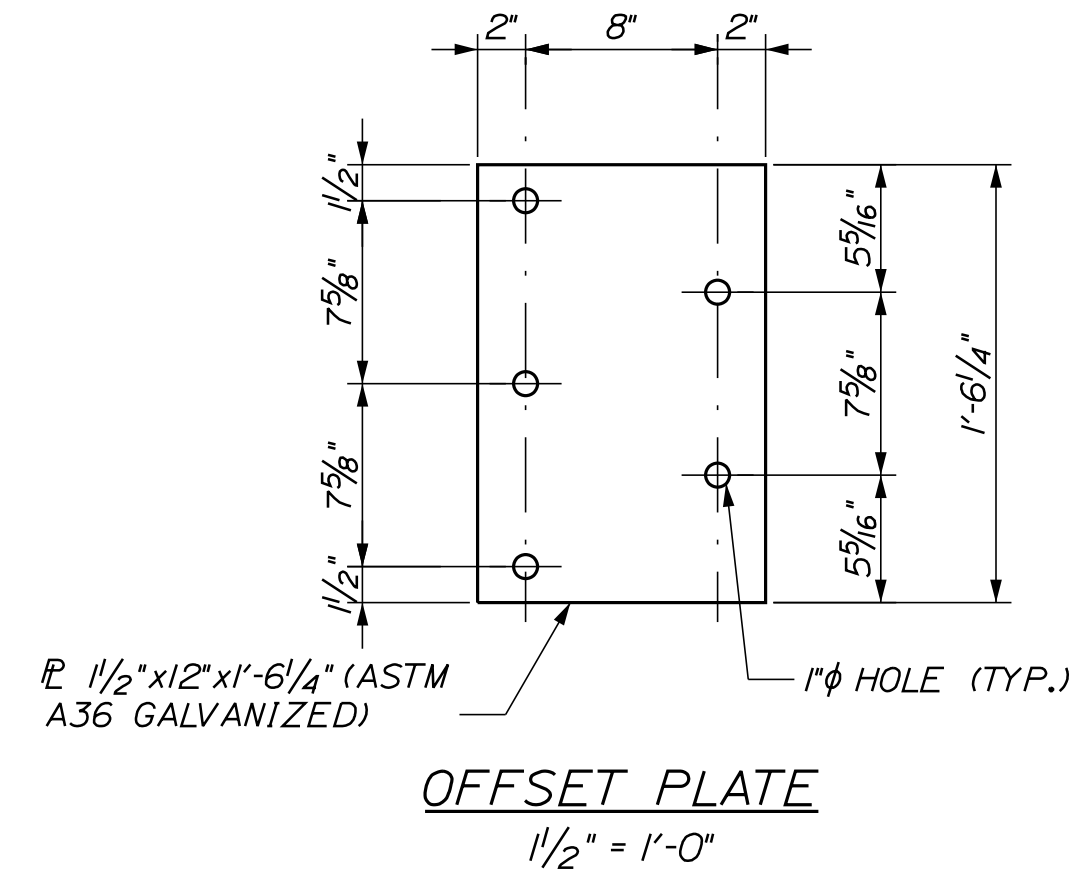
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GUARDRAIL DETAILS 2

SHEET NUMBER: DET-02  
100 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

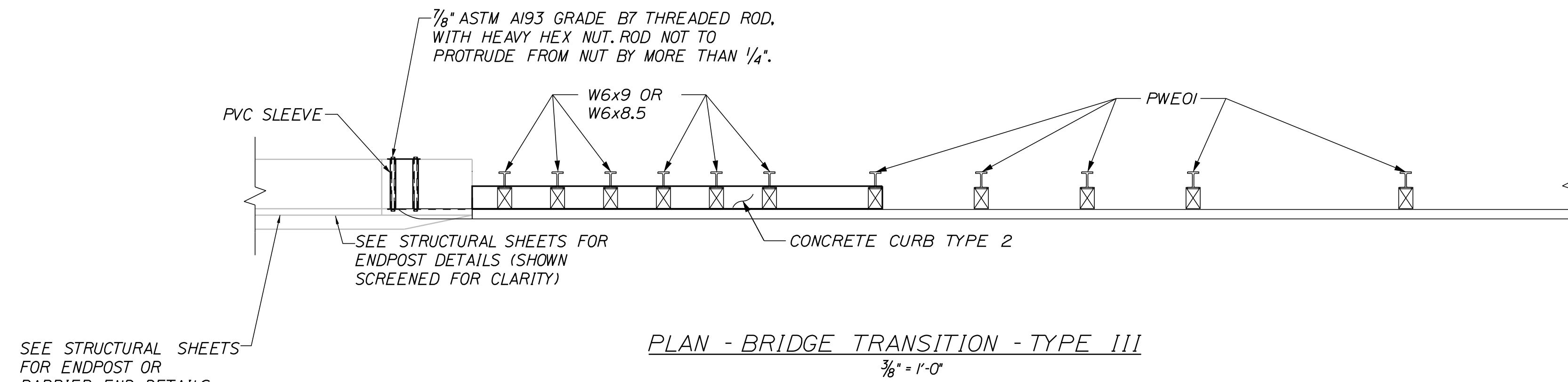


**CURB NOTES:**

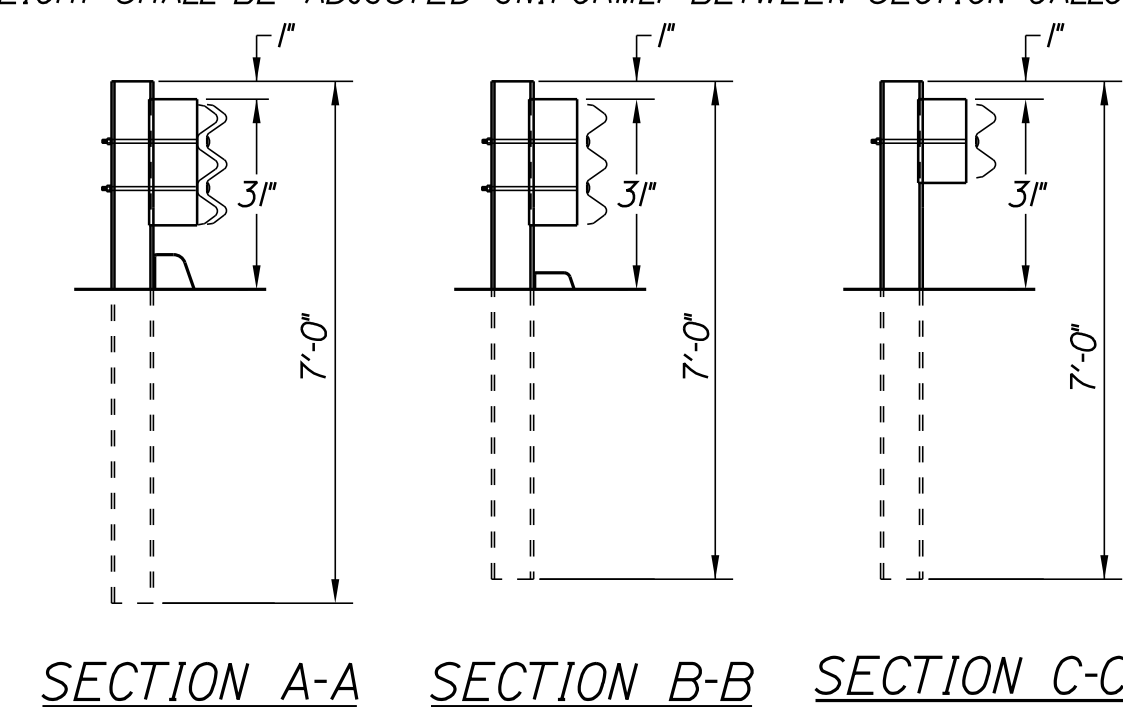
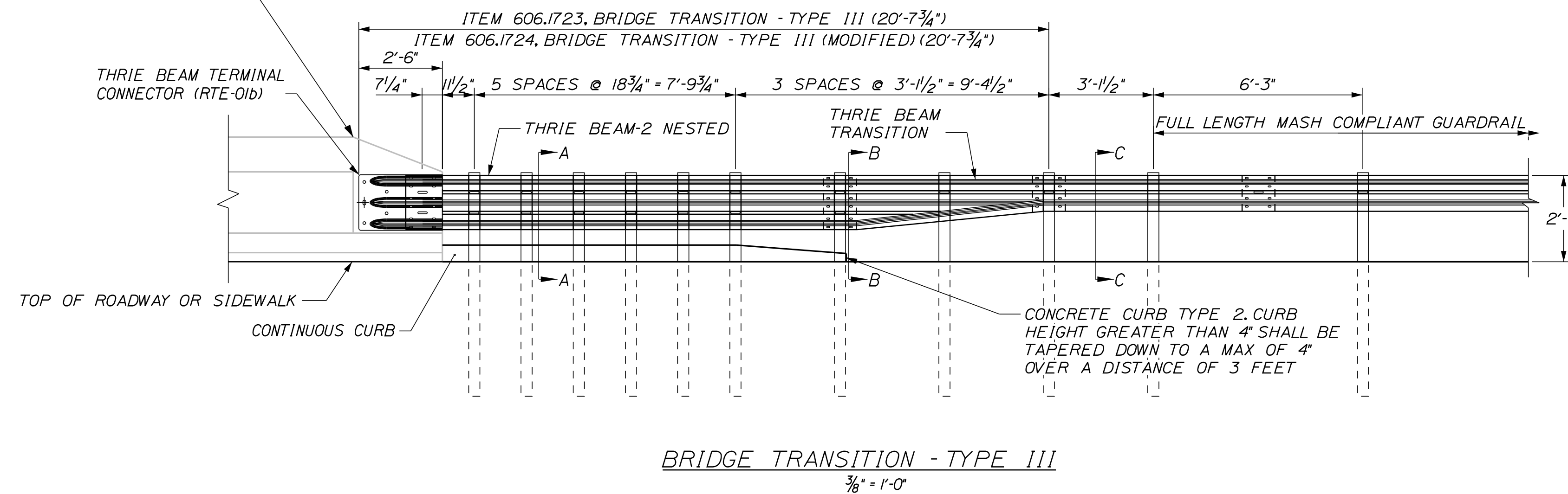
1. CURBING SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS.
2. CONCRETE CURBS USED IN CONJUNCTION WITH THRIE-BEAM BRIDGE ATTACHMENT SHALL BE TYPE 2, SEE DETAILS THIS SHEET. CONCRETE CURBS SHALL BE CONTINUOUS WITHOUT DRAINAGE CUTS.
3. CURB TRANSITION 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.

**GENERAL 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. 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.
4. 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.
5. 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.
6. 1" HOLE IN CONCRETE SHALL BE FORMED BY A 1" I.D. PVC SLEEVE AS APPROVED BY THE ENGINEER.
7. GUARDRAIL HEIGHT SHALL BE ADJUSTED UNIFORMLY BETWEEN SECTION CALLOUTS.



SEE STRUCTURAL SHEETS FOR ENDPST OR BARRIER END DETAILS



Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
Designed	JRH	10\22	Checked
Drawn	THG	10\22	In Charge of

STANTEC CONSULTING SERVICES INC.  
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TEL (207) 887-3448  
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
GUARDRAIL DETAILS 3

SHEET NUMBER: DET-03  
CONTRACT: 2022.07  
101 OF 735

Date:10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

**BARRIER NOTES:**

1. FLUORESCENT YELLOW PCBM-T12 BARRIER REFLECTORS SHALL BE INSTALLED ON TOP OF PROPOSED CONCRETE BARRIERS AT A SPACING OF 132'. PAYMENT SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM AS NOTED IN THE SPECIAL PROVISION 645.
2. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL VERTICAL, SLOPED, AND TOP SURFACES OF CONCRETE BARRIER AND BARRIER TRANSITION PIECES, INCLUDING BARRIER ENDS, IN ACCORDANCE WITH SPECIAL PROVISION 515. CLEAR PROTECTIVE COATING FOR CONCRETE BARRIER AND BARRIER TRANSITION PIECES SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
3. EXCAVATION AND GRANULAR BORROW BEDDING MATERIAL FOR INSTALLATION OF ALL BARRIER AND ASSOCIATED TRANSITIONS SHALL NOT BE MEASURED SEPARATELY, BUT SHALL BE INCIDENTAL TO THE ASSOCIATED 526 PAY ITEM.
4. THE TOP OF THE BARRIER SHALL BE FLUSH ACROSS ALL JOINTS. THE TOP OF THE BARRIER, EXCEPT AS REQUIRED AT HEIGHT TRANSITIONS, SHALL BE PARALLEL TO THE PAVEMENT SURFACE AT EDGE OF TRAVELWAY.
5. SCREW PIN SHALL BE SECURED WITH AN APPROVED THREAD LOCK MATERIAL DURING FINAL ASSEMBLY.
6. A D-SHACKLE SHALL BE ATTACHED TO EACH I-BEAM.

**STRUCTURAL NOTES:**

1. PRIOR TO FABRICATING THE PRECAST CONCRETE BARRIER, THE CONTRACTOR SHALL SUBMIT WORKING DRAWINGS OF THE PROPOSED BARRIER LAYOUT AND ITS COMPONENTS IN ACCORDANCE WITH SPECIAL PROVISION 526.
2. REINFORCING SCHEDULES FOR BARRIER 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 1/2 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.


**BARRIER LAYOUT NOTES:**

1. CONCRETE BARRIER - TYPE A SHALL BE CONSTRUCTED ALONG THE EXIT 35 NORTHBOUND PLAZA FROM STA. 618+00.00 TO STA. 625+07.75, 7.0' RT.
2. CONCRETE BARRIER - TYPE C GUARDRAIL TRANSITION BARRIER SHALL BE CONSTRUCTED AT EITHER END OF THE SOIL NAIL WALL ALONG THE SOUTHBOUND C-D ROADWAY FROM STA. 2743+05.13 TO STA. 2743+19.63, 28.0' LT. AND STA. 2745+94.63 TO STA. 2746+09.13, 28.0' LT.

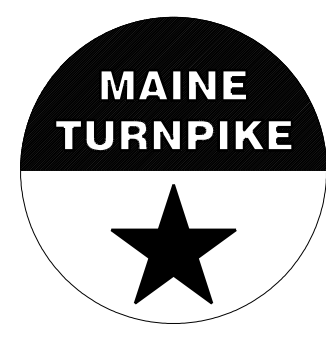
526.351 - CONCRETE BARRIER - TYPE A  
 STA. 618+00, RT. TO STA. 625+08, RT. 715 LF

526.368 - CONCRETE BARRIER - TYPE C GUARDRAIL TRANSITION BARRIER  
 STA. 2743+05, LT. TO STA. 2743+20, LT. 1 EA  
 STA. 2745+95, LT. TO STA. 2746+09, LT. 1 EA

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 BARRIER DETAILS 1  
 NOTES

SHEET NUMBER: DET-04  
 102 OF 735

CONTRACT:2022.07

Date: 10/17/2022

Filename: ...00\HIGHWAY\MSTA\...Details.dgn

CONCRETE BARRIER REINFORCING SCHEDULE*				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	10	19'-6"	
STIRRUPS	#4	29	8'-5"	
LOOP BAR	#6	2	7'-11"	

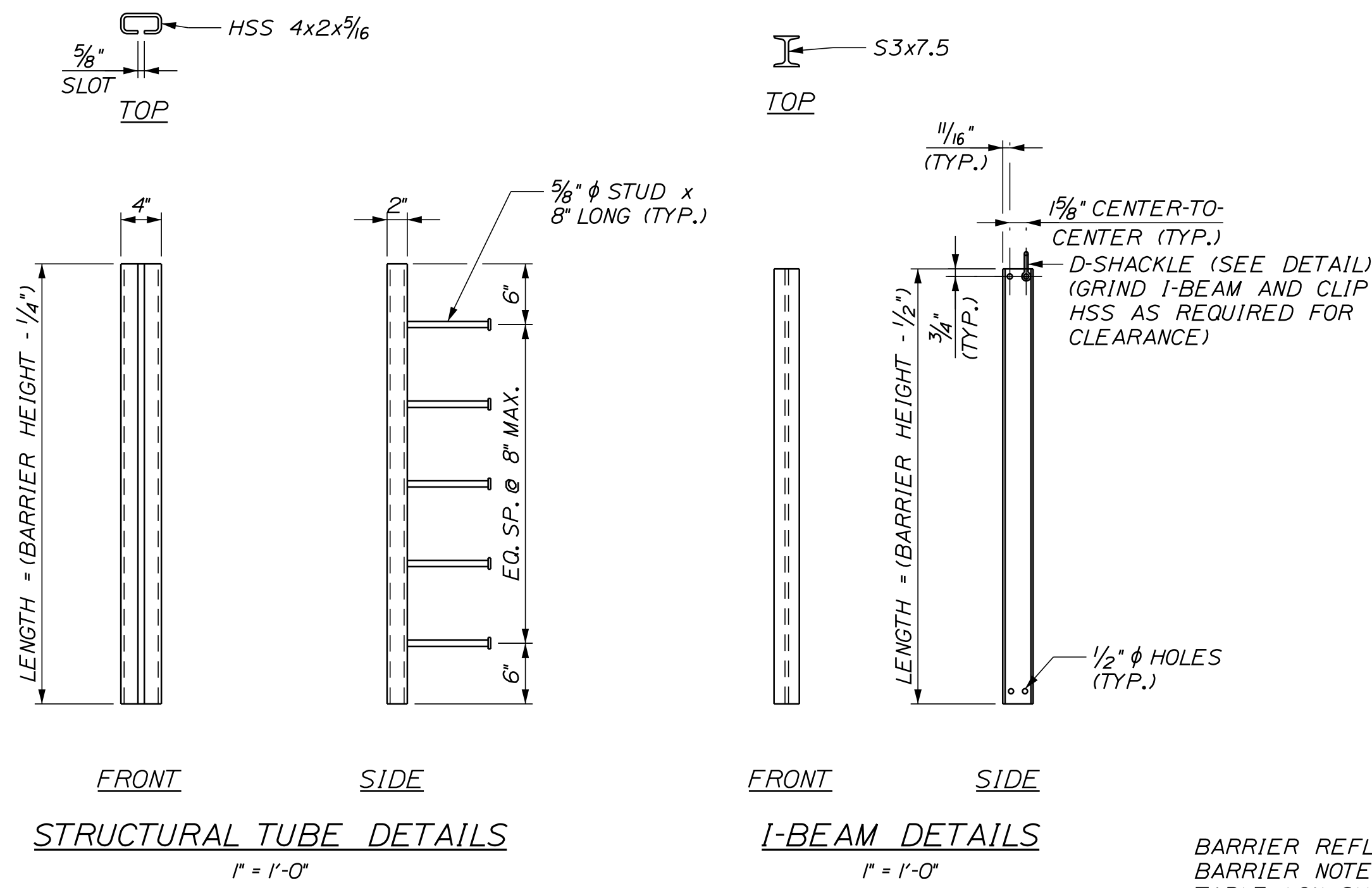
\*6 LOOP BAR (TOP VIEW)

#4 STIRRUP BAR

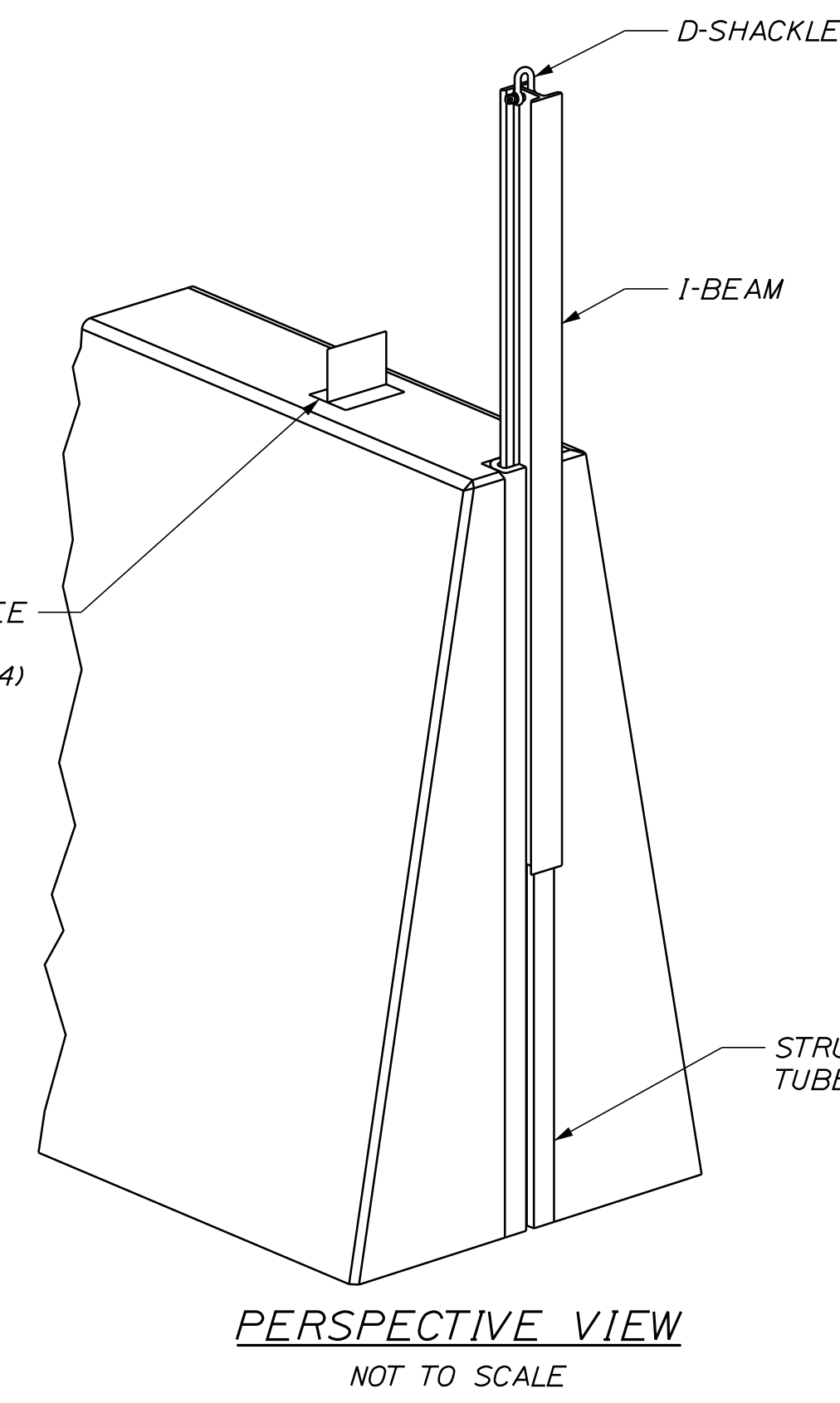
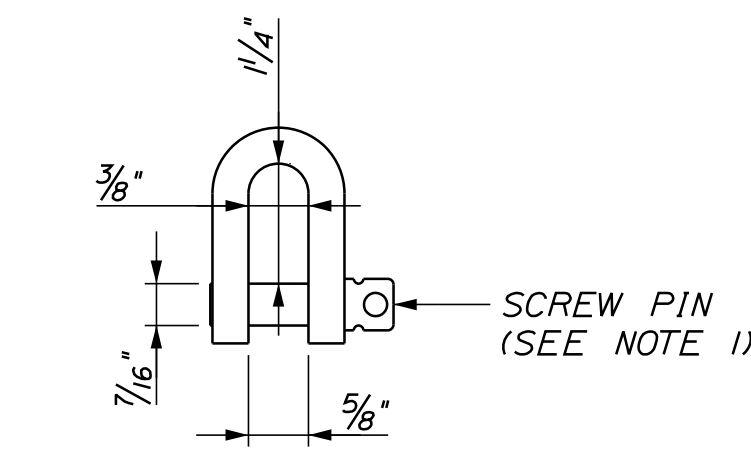
\* QUANTITIES BASED ON 20'-0" BARRIER LENGTH.

**NOTES:**

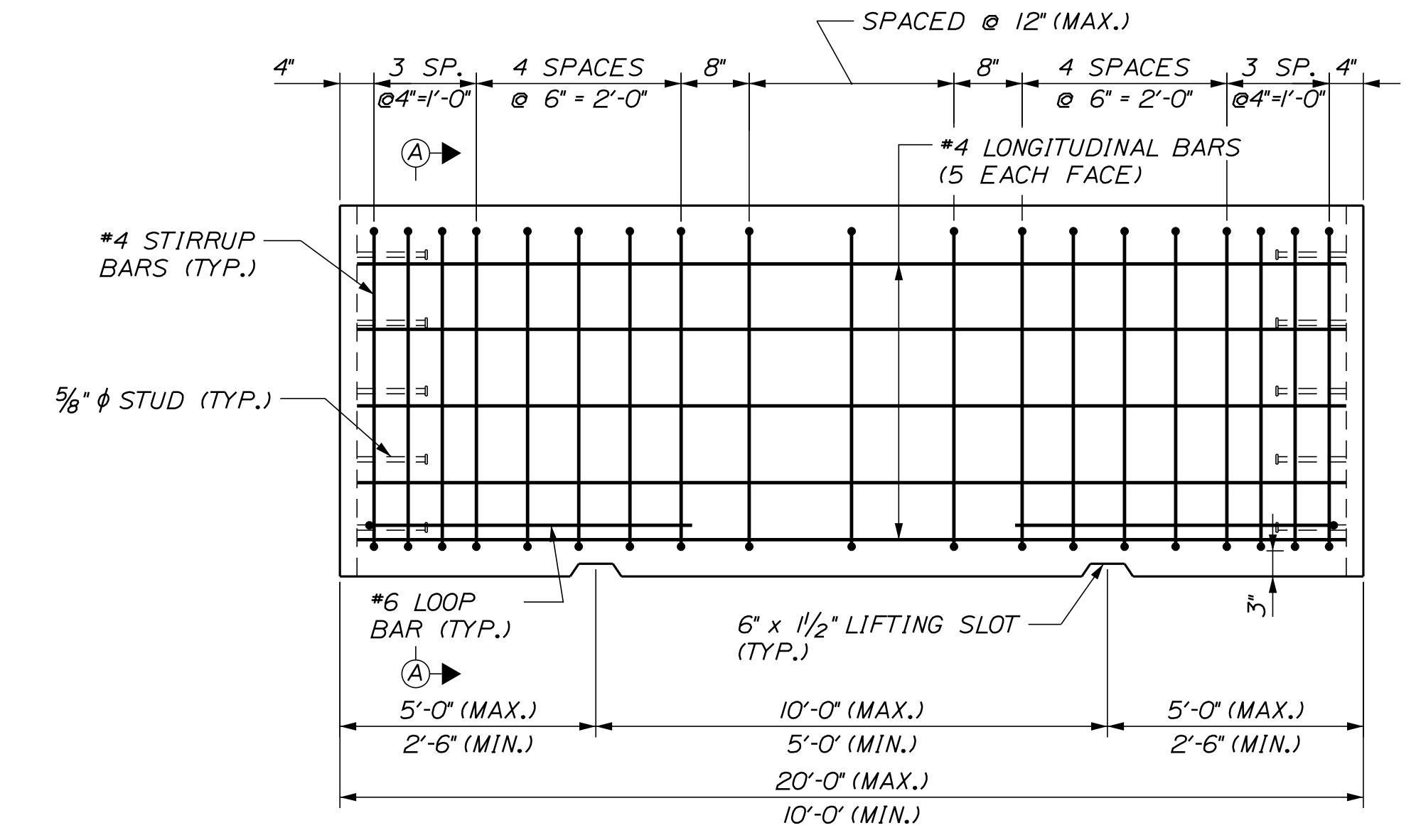
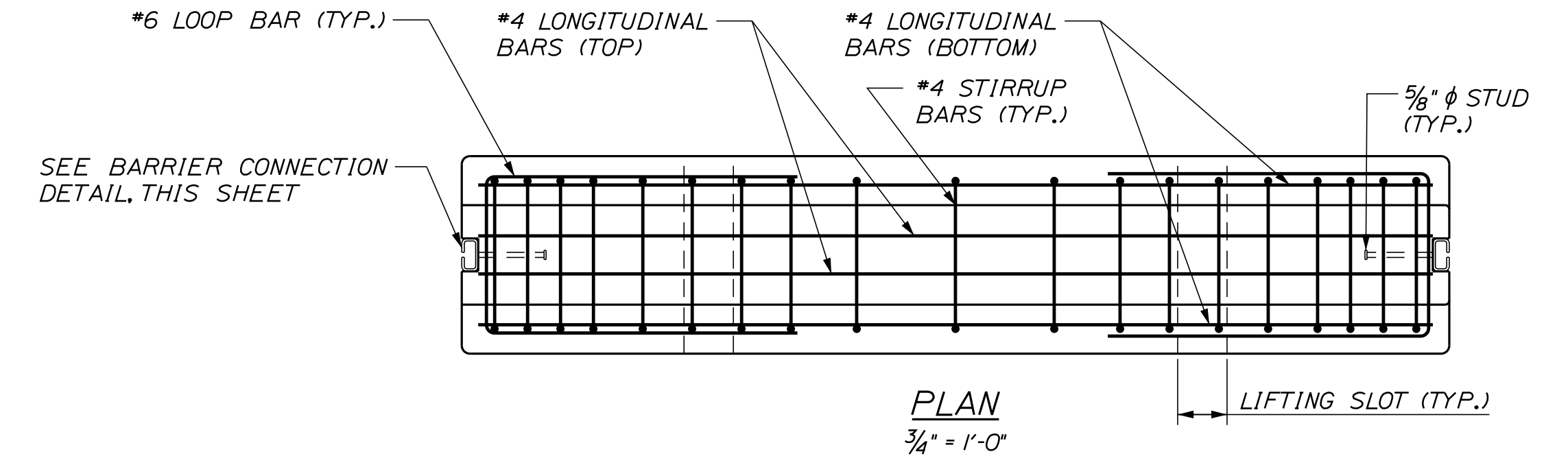
1. FOR BARRIER NOTES, SEE SHEET DET-04.



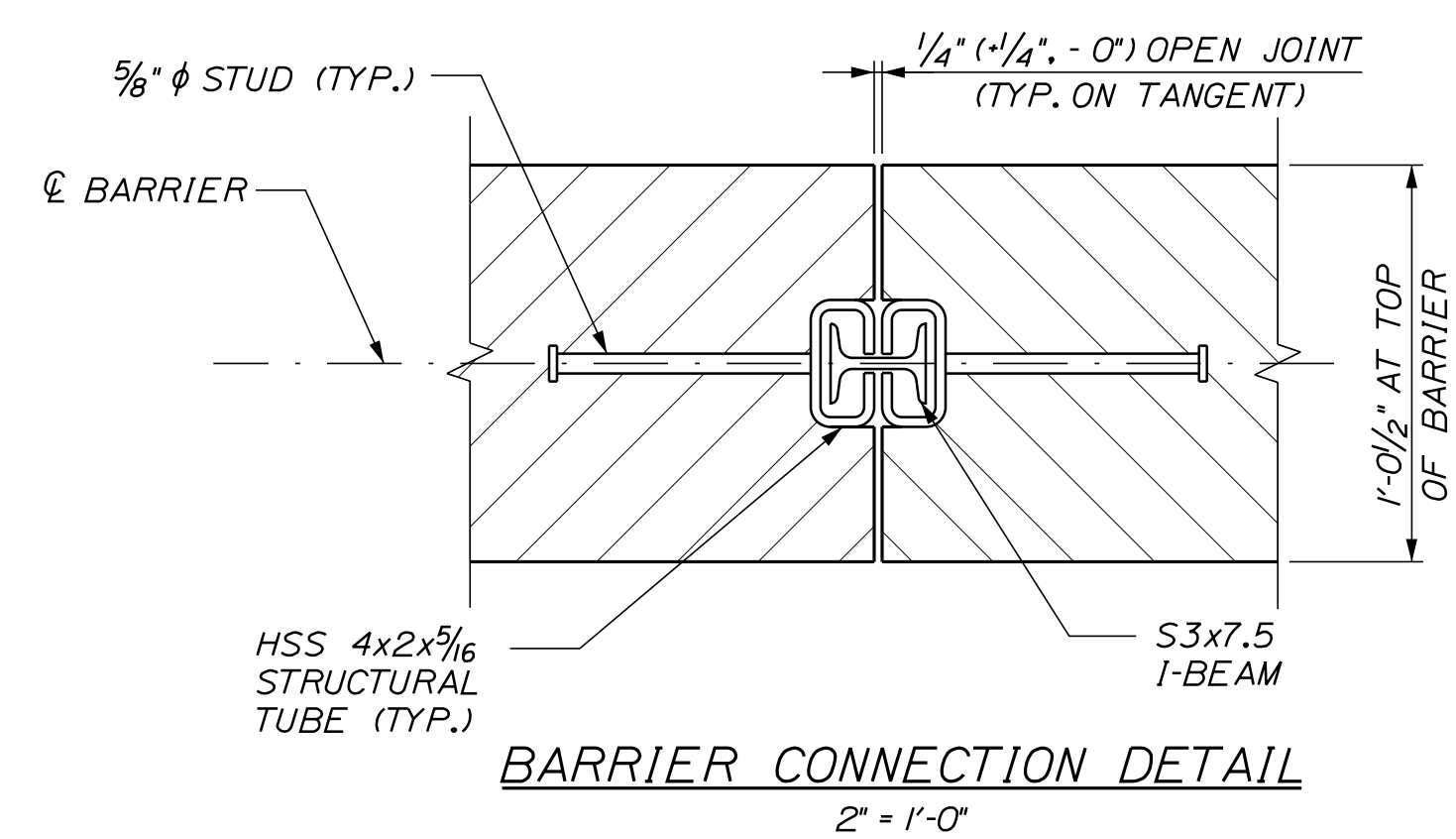
**D-SHACKLE DETAIL**  
(ONE PER I-BEAM)  
6" = 1'-0"



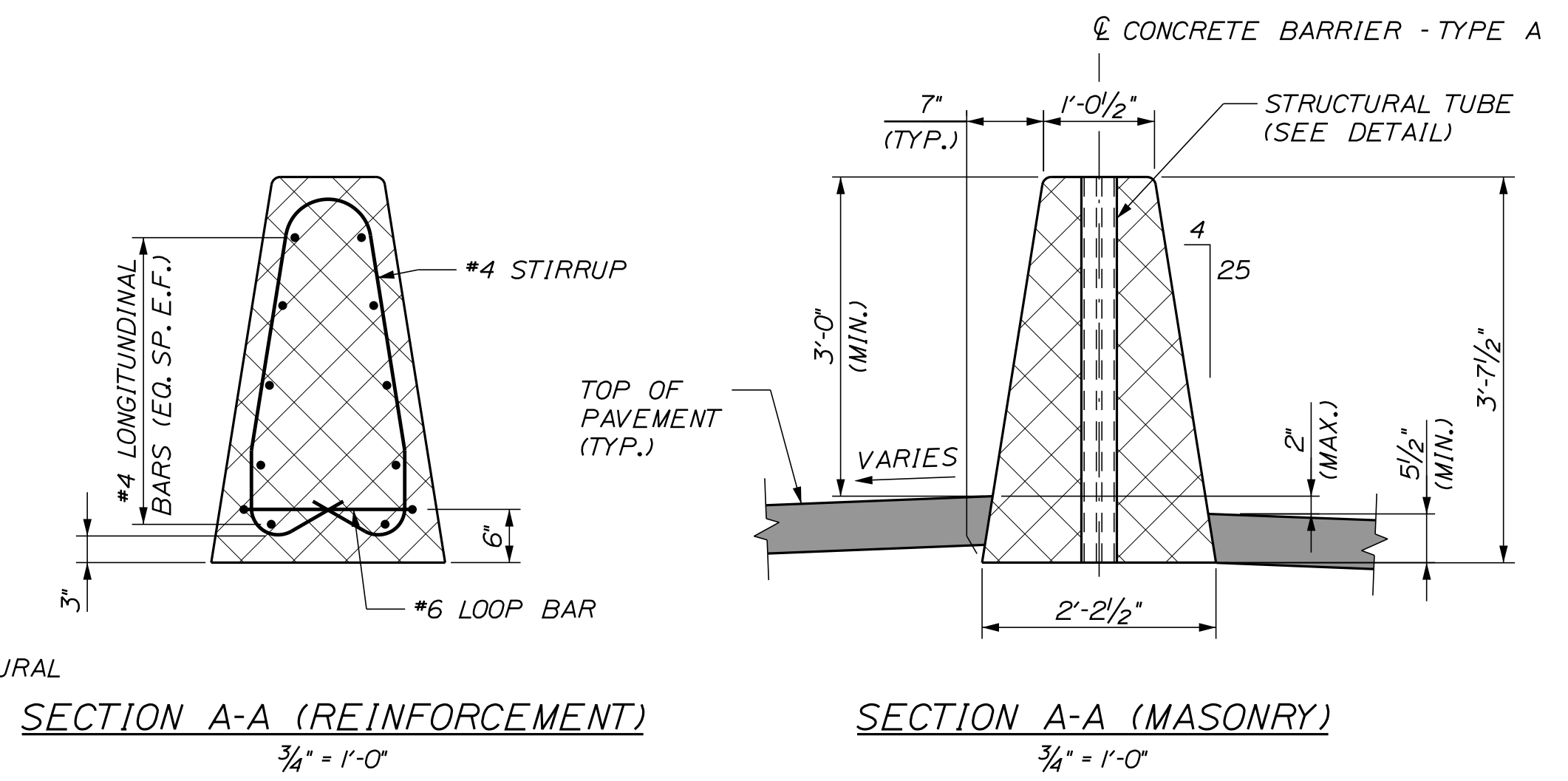
**PERSPECTIVE VIEW**  
NOT TO SCALE



**ELEVATION**  
3/4" = 1'-0"



**BARRIER CONNECTION DETAIL**  
2" = 1'-0"



**SECTION A-A (REINFORCEMENT)**  
3/4" = 1'-0"

**SECTION A-A (MASONRY)**  
3/4" = 1'-0"

Scale:				
AS NOTED				
No.	Revision	By	Date	

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	By	Date	Checked	By	Date
Drawn	By	Date	In Charge of	By	Date
	JRH	10\22		PLP	10\22
	THG	10\22		LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
BARRIER DETAILS 2  
TYPE A BARRIER

SHEET NUMBER: DET-05  
103 OF 735

CONTRACT: 2022.07

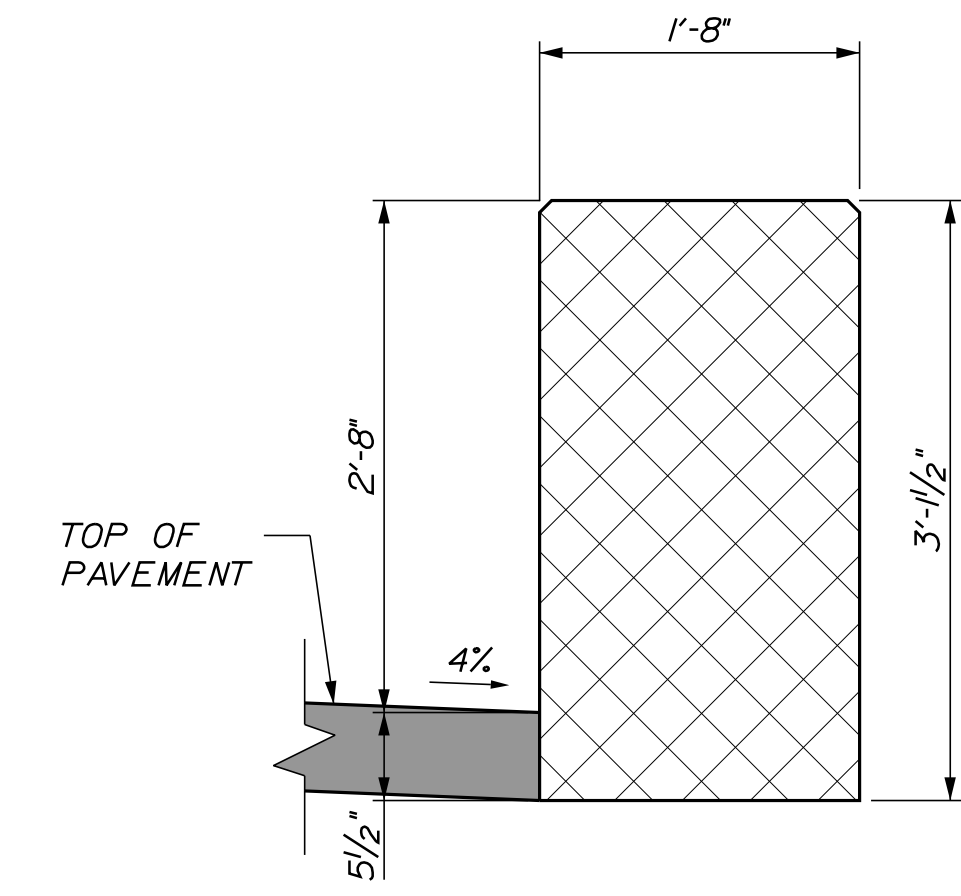
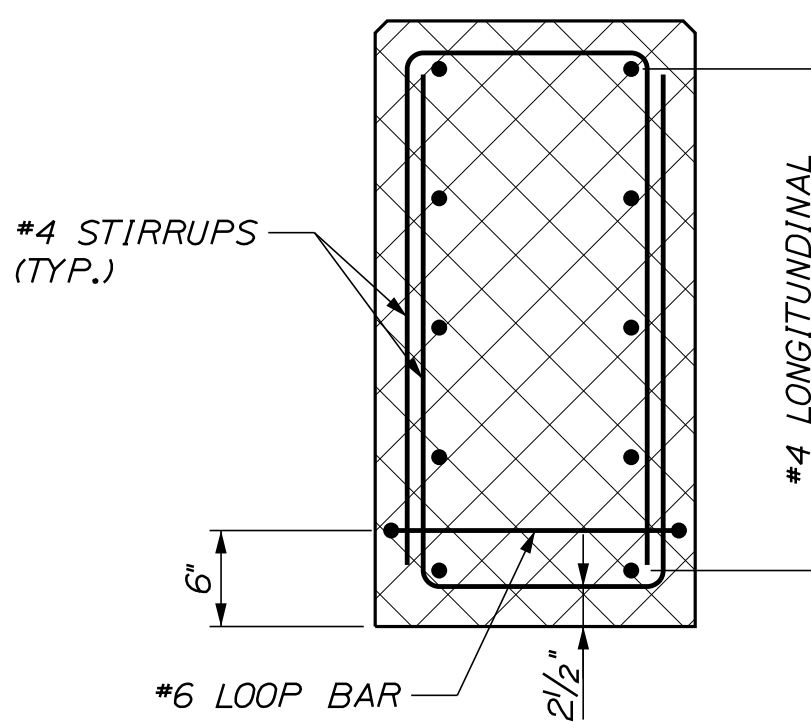
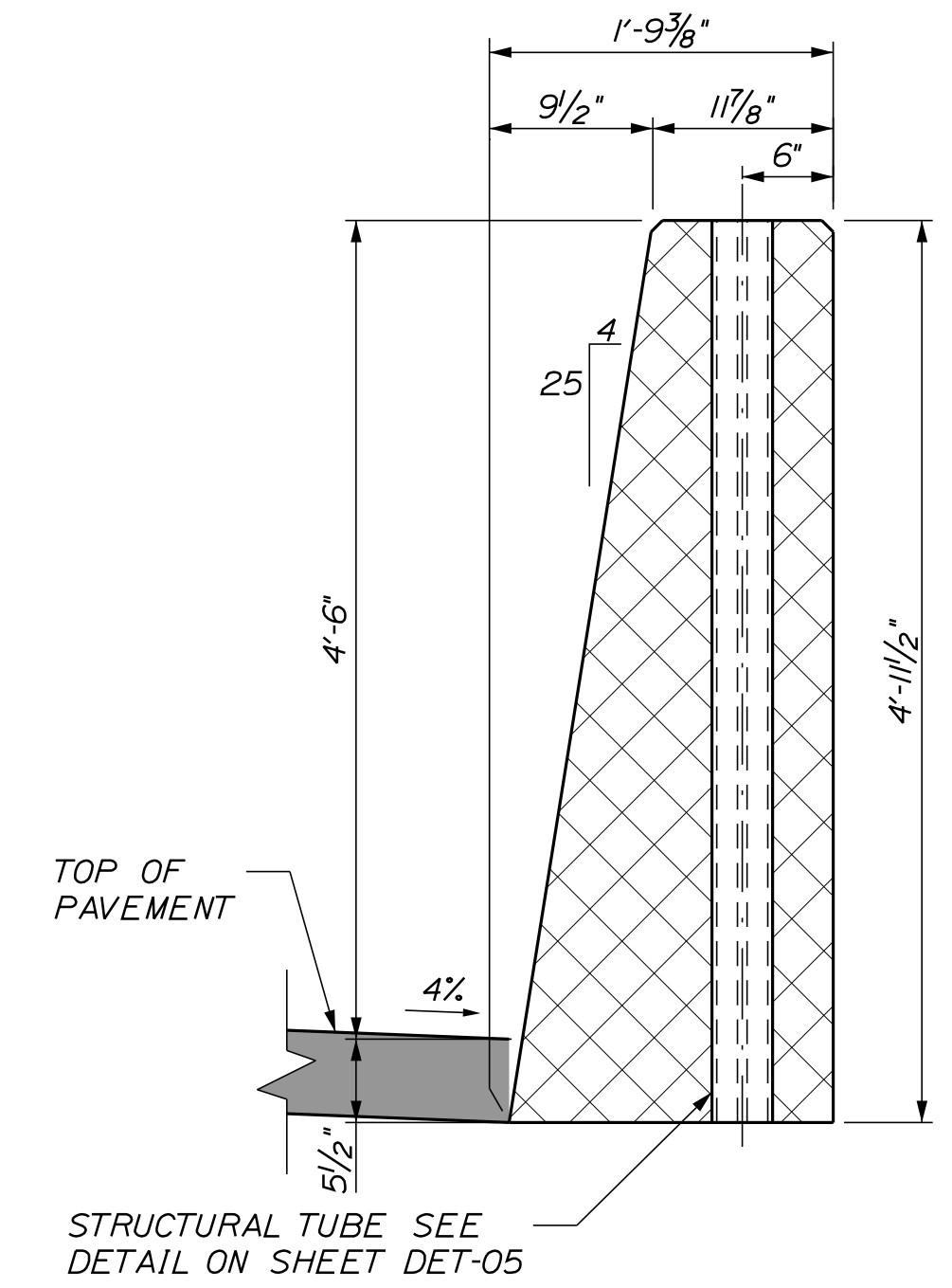
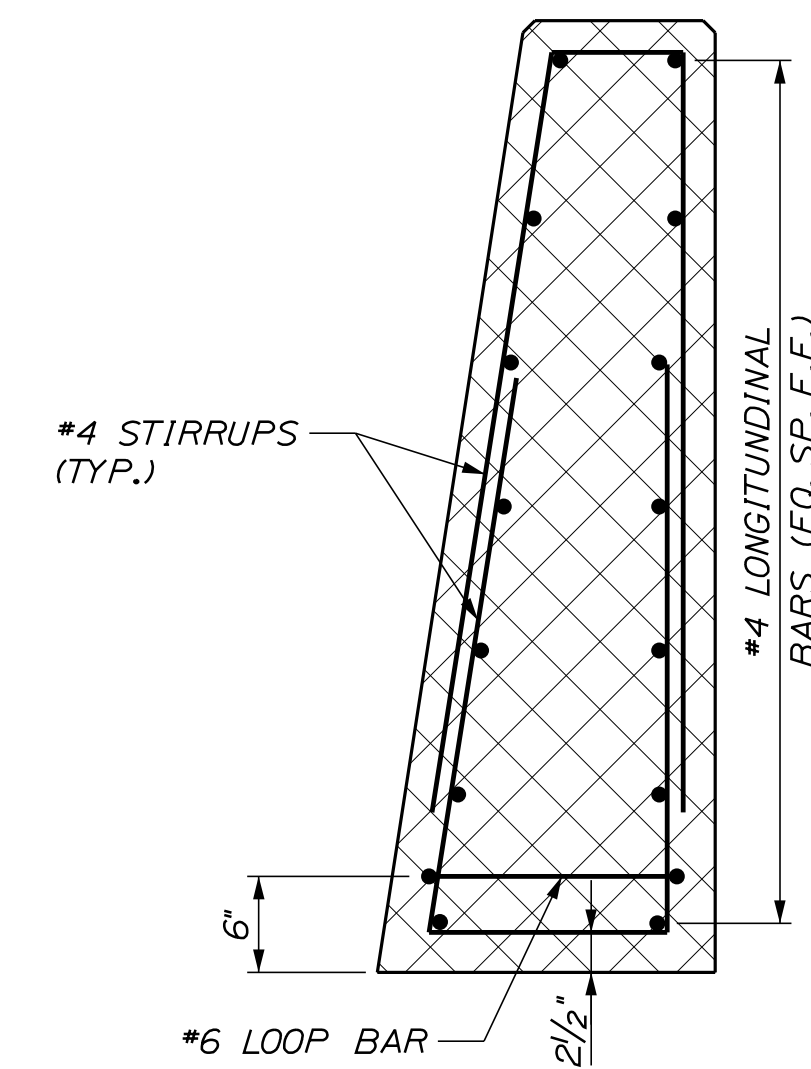
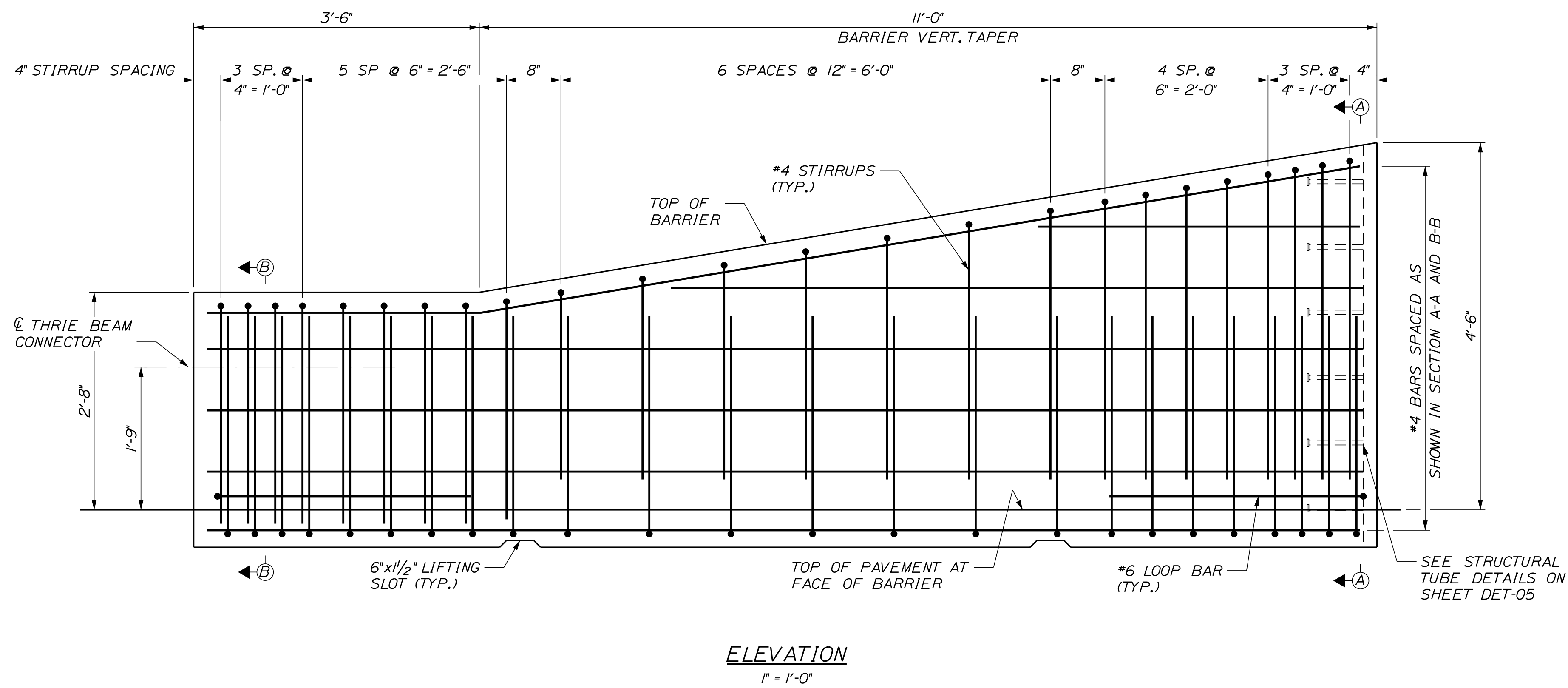
Date: 10/17/2022

CONCRETE BARRIER REINFORCING SCHEDULE				
DESCRIPTION	SIZE	NO.	UNBENT LENGTH	TYPE
LONGITUDINAL	#4	14	VARIABLE	
STIRRUPS	#4	15	VARIABLE	
STIRRUPS	#4	15	7'-3"	
STIRRUPS	#4	18	6'-7"	
LOOP BAR	#6	2	7'-8 1/2"	

**NOTES:**

- FOR BARRIER NOTES AND ADDITIONAL BARRIER CONNECTION DETAILS, SEE SHEETS DET-04 AND DET-05.
- INSTALLATION OF GUARDRAIL CONNECTION HARDWARE AND SETTING OF THE TRANSITION BARRIER SHALL BE COORDINATED TO ENSURE PROPER VERTICAL ALIGNMENT OF THE BARRIER AND GUARDRAIL. SEE DET-03 FOR ADDITIONAL DETAILS.
- INSTALLATION OF THE THRIE BEAM TERMINAL CONNECTOR SHALL BE COORDINATED WITH THE REINFORCING LAYOUT.

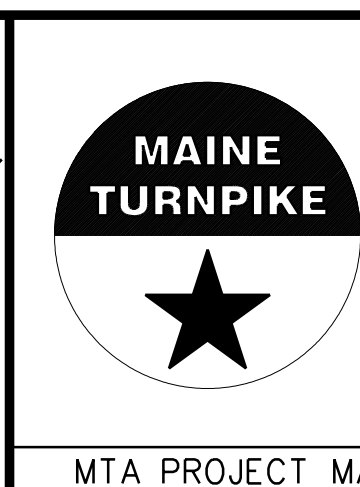


Filename: ...00\HIGHWAY\MSTA\...Details.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:			
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
Designed	JRH	10\22	Checked
Drawn	THG	10\22	In Charge of

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**THE GOLD STAR MEMORIAL HIGHWAY**

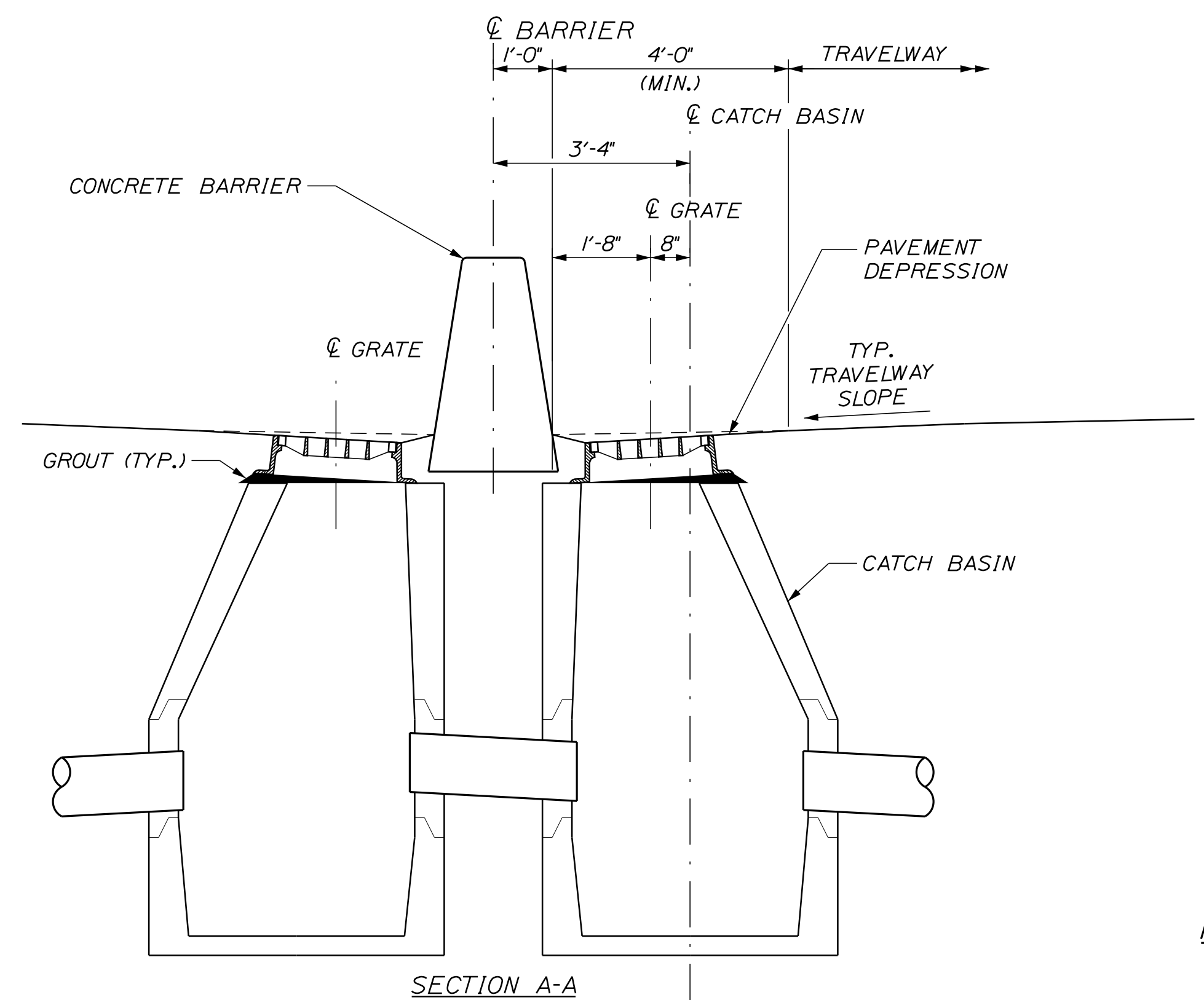
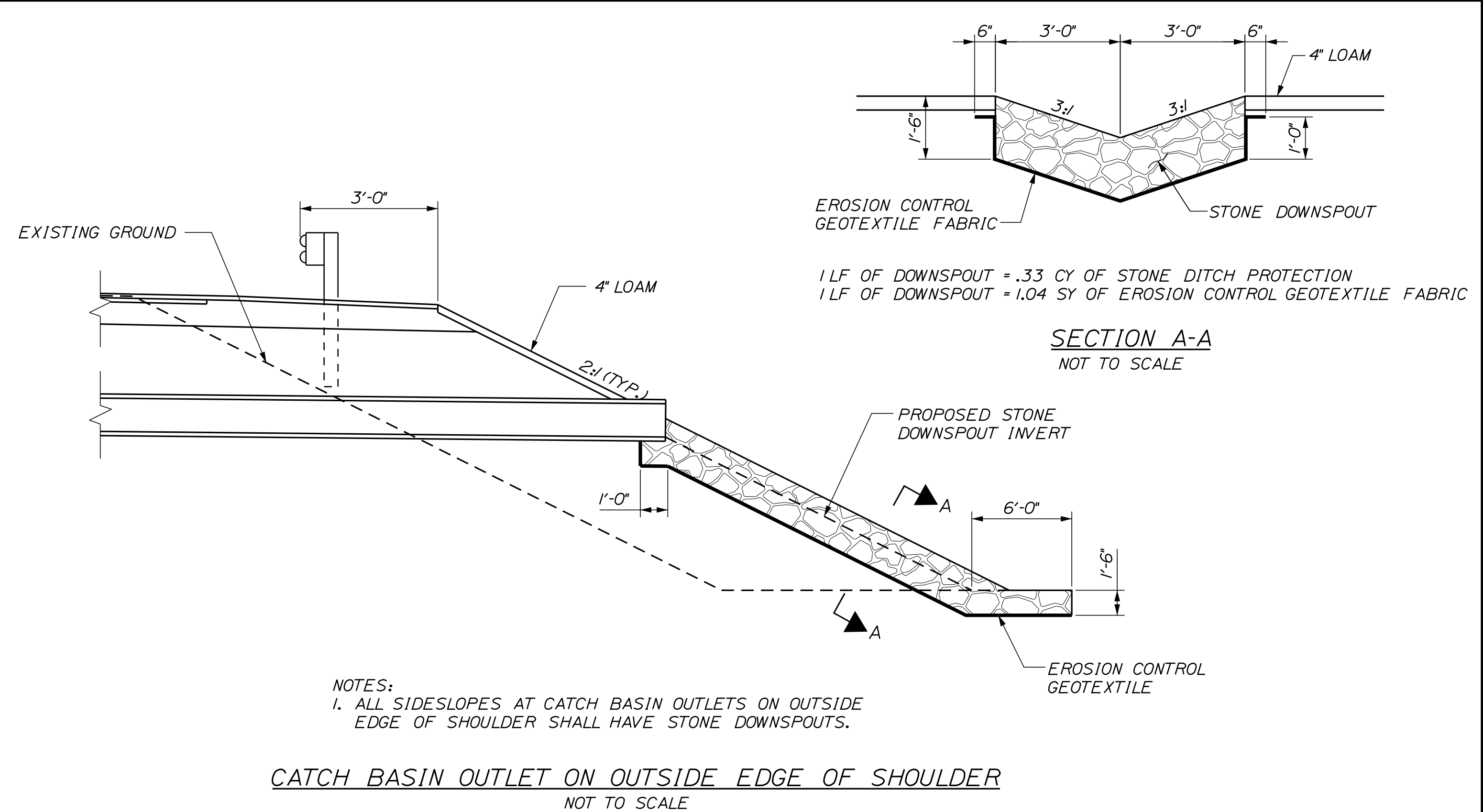
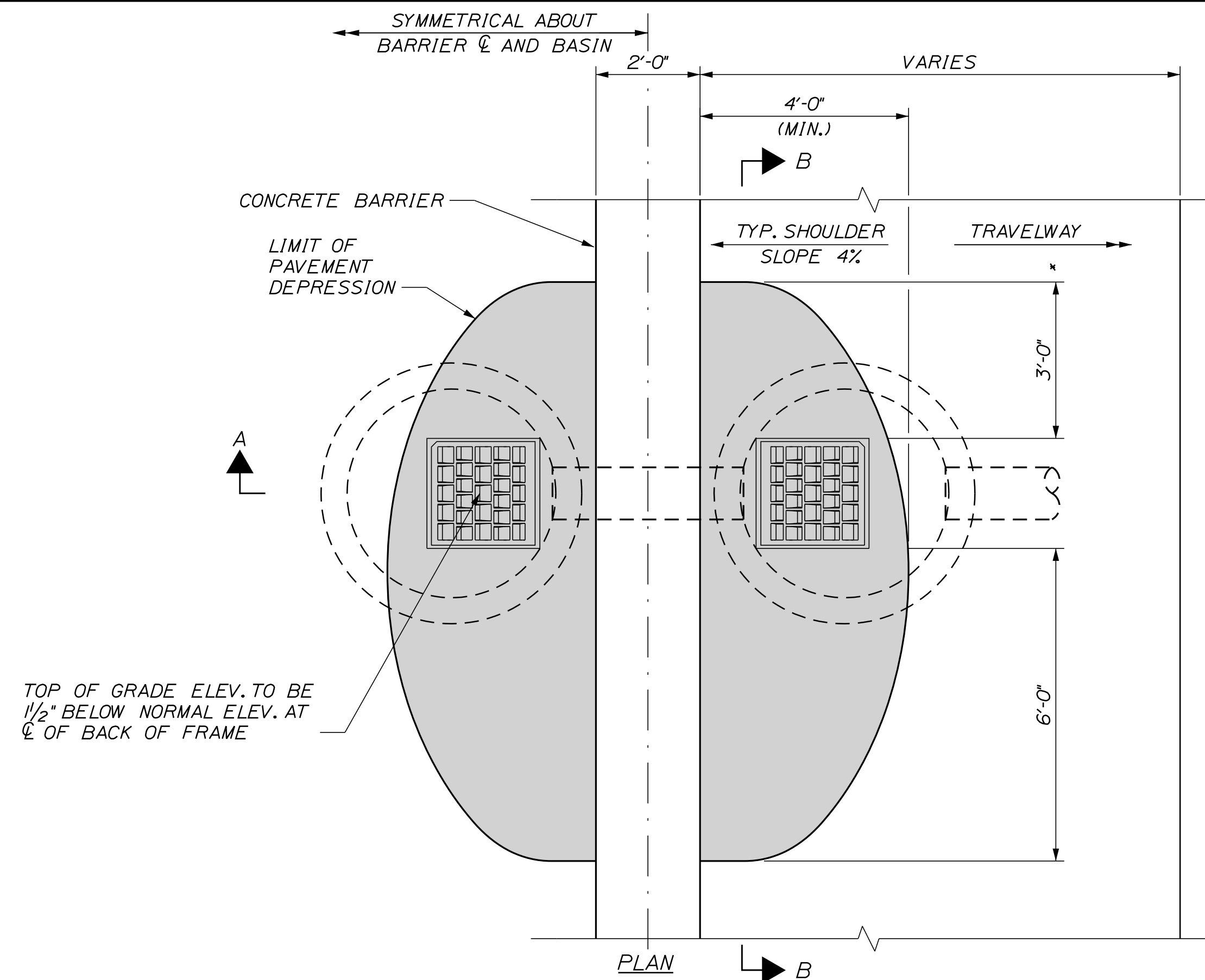
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
BARRIER DETAILS 3  
TYPE C GUARDRAIL TRANSITION BARRIER

SHEET NUMBER: DET-06  
CONTRACT: 2022.07  
104 OF 735

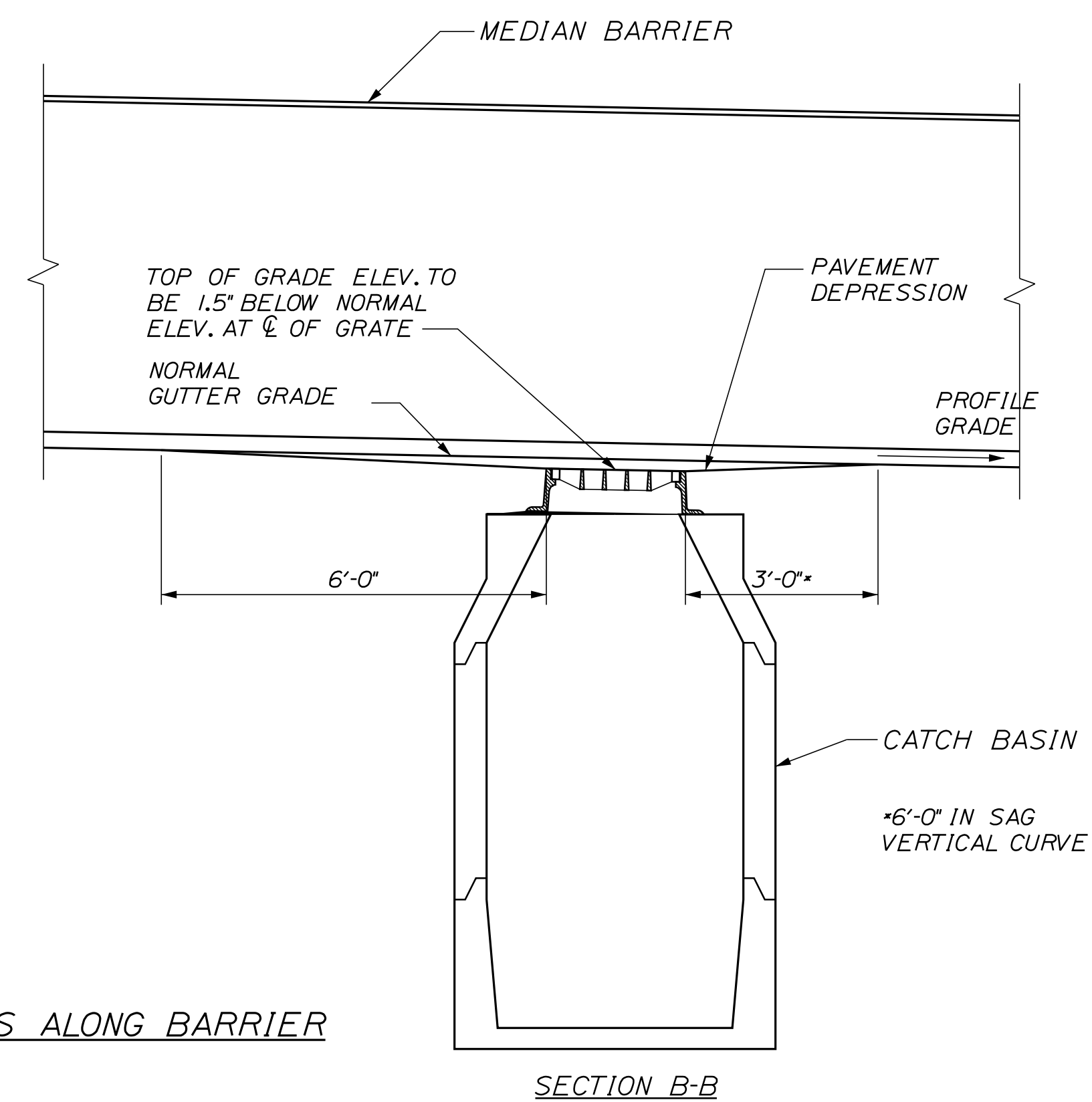


Date: 10/17/2022

Filename: ...000\HIGHWAY\MSTA\...Details.dgn



- NOTES:
1. SHADED AREA REPRESENTS APPROXIMATE LIMITS OF PAVEMENT DEPRESSION.
  2. FRESHLY PLACED PAVEMENT SHALL BE REMOVED BEFORE COMPACTING DEPRESSED AREA.
  3. BRICKS SHALL NOT BE USED TO ADJUST FRAMES TO GRADE.



PLACEMENT OF DRAINAGE STRUCTURES ALONG BARRIER  
NOT TO SCALE

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

**DRAINAGE DETAILS**

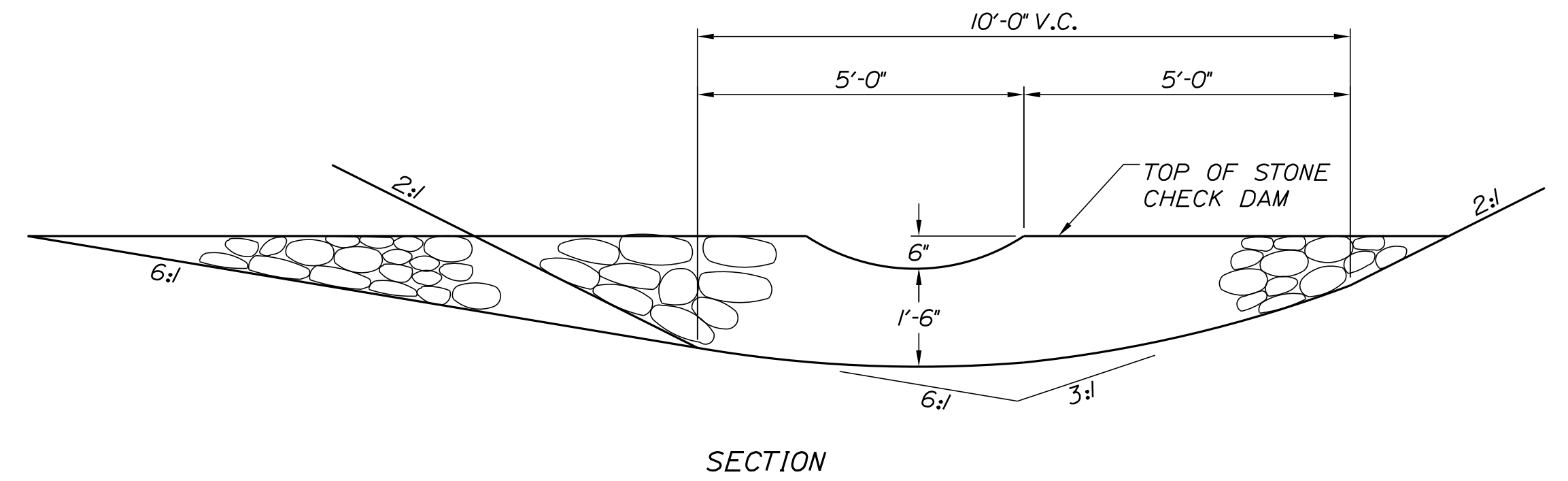
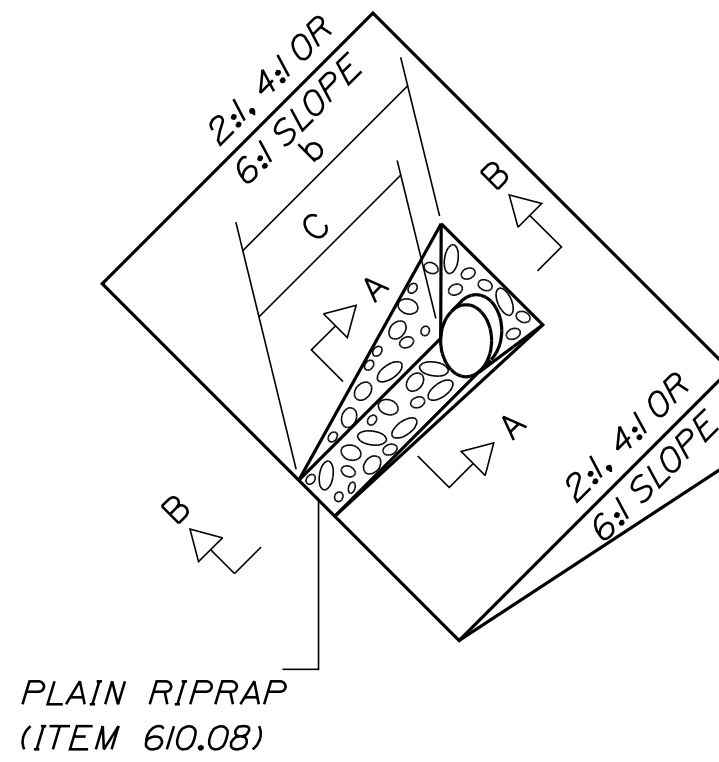
SHEET NUMBER: DET-07  
105 OF 735

CONTRACT: 2022.07

Date:10/17/2022

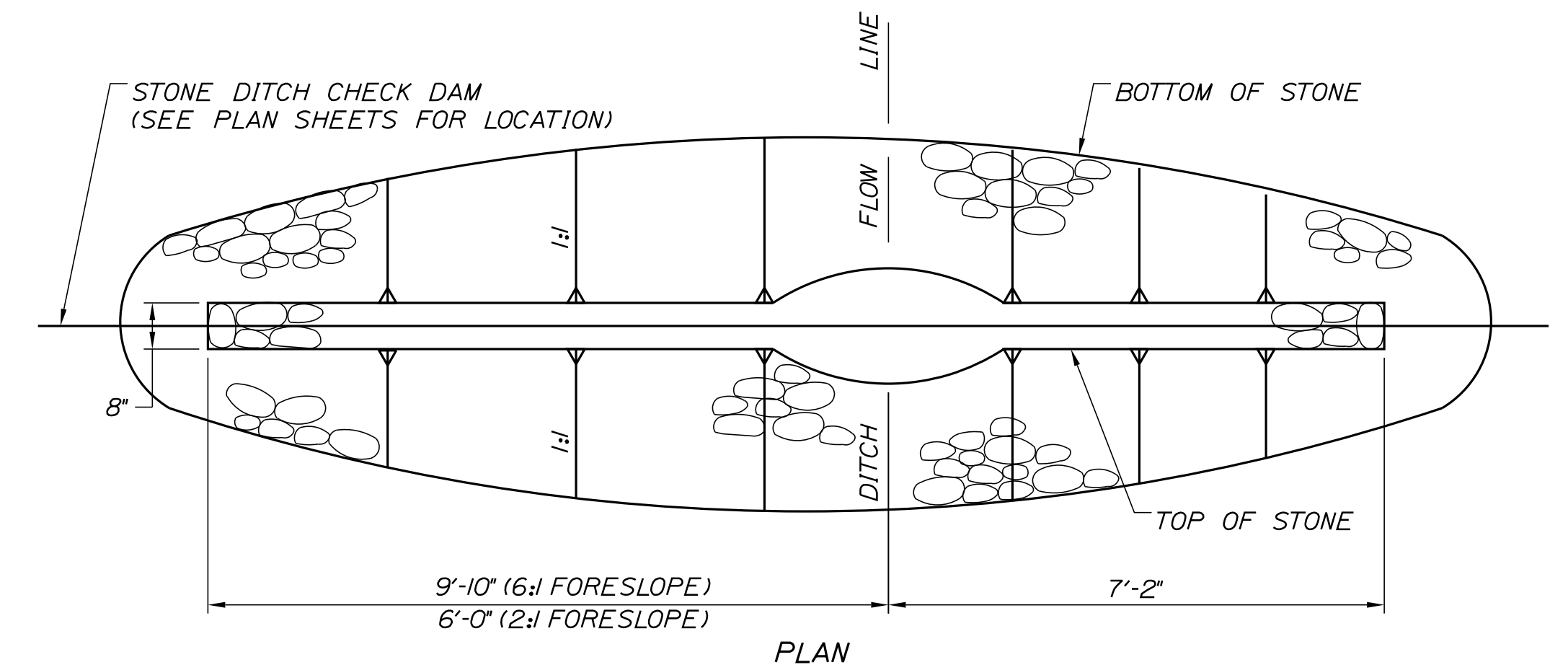
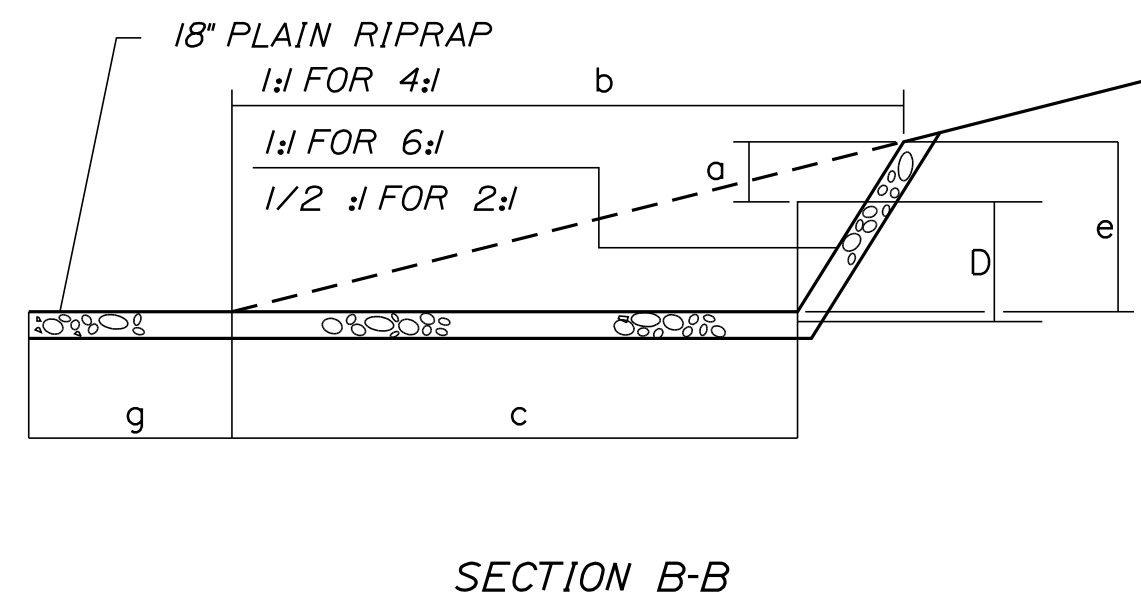
DIMENSIONS FOR SLOPE OF 2:1

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



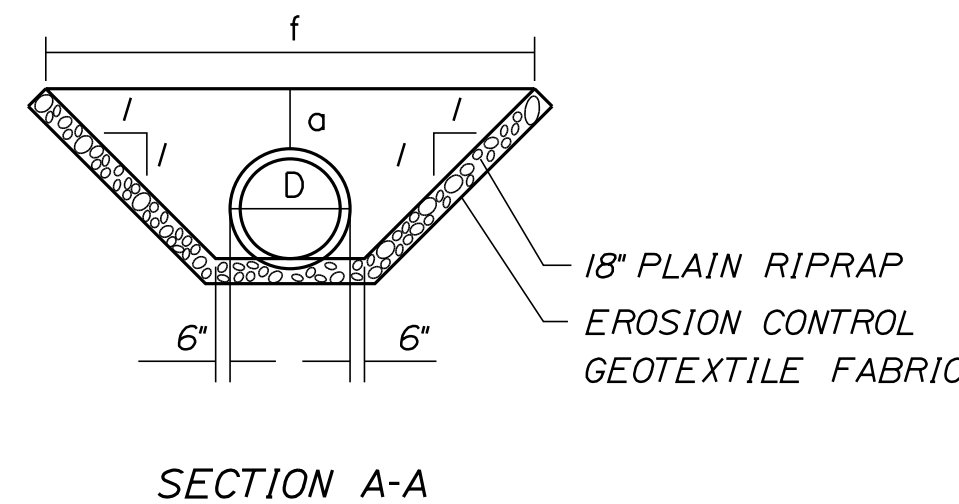
DIMENSIONS FOR SLOPE OF 4:1

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

- NOTES:  
1. STONE FOR TEMPORARY AND PERMANENT STONE CHECK DAMS SHALL MEET THE REQUIREMENTS OF MDT SPECIFICATION 703.29, STONE DITCH PROTECTION.  
2. TEMPORARY STONE CHECK DAMS WILL BE PAID FOR UNDER ITEM 610.1B1.

STONE CHECK DAM  
NOT TO SCALE

Filename: ...:\00\HIGHWAY\MSTA\...\_Details.dgn

Scale: **AS NOTED**

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

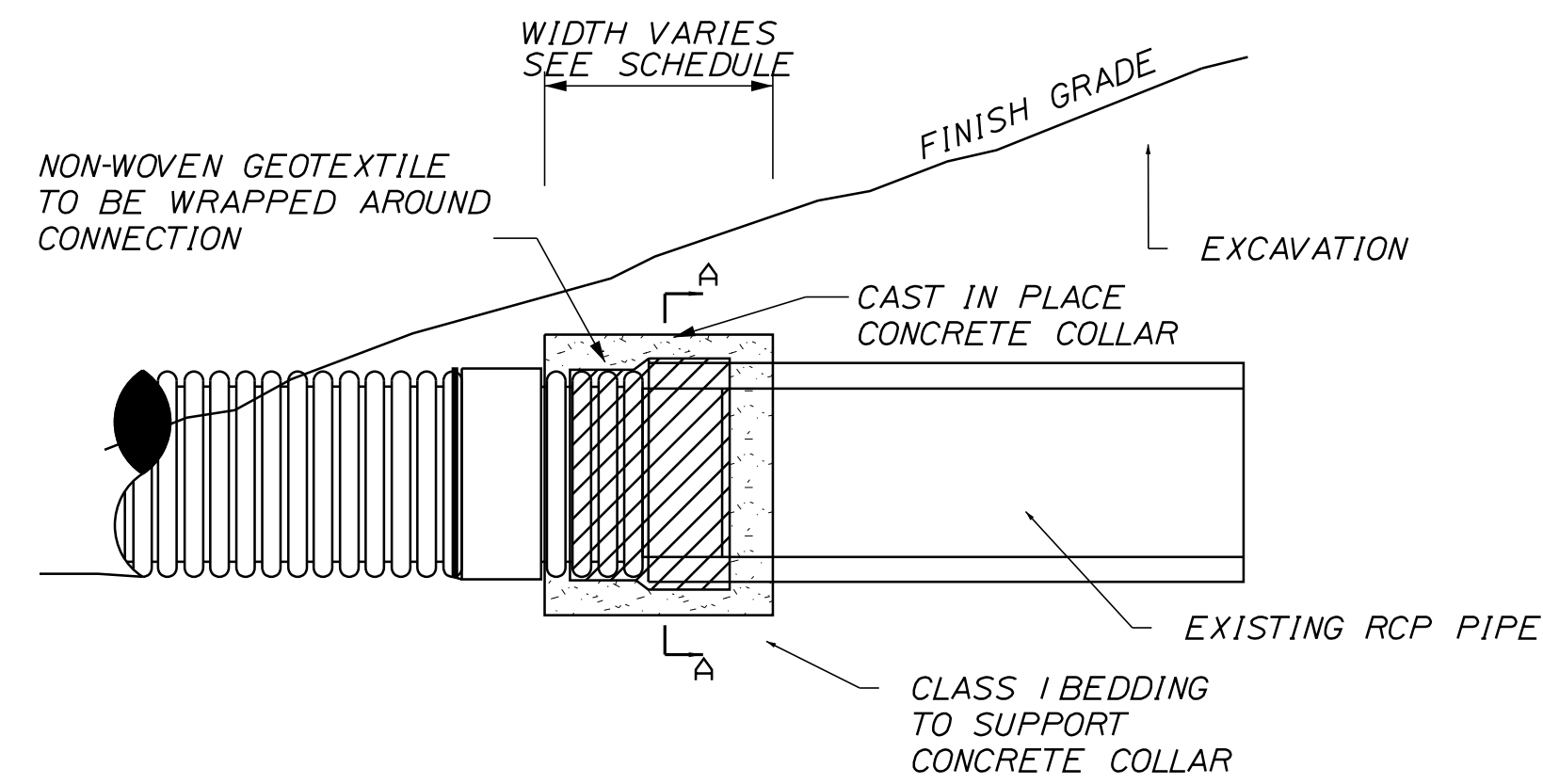
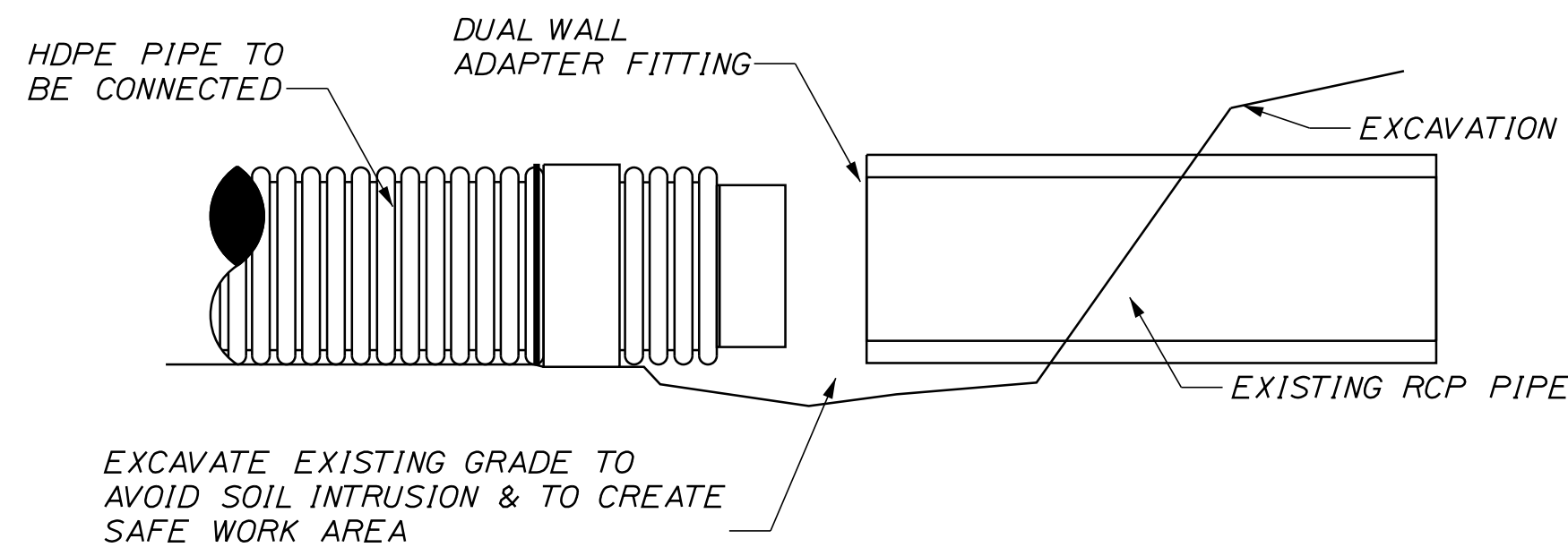
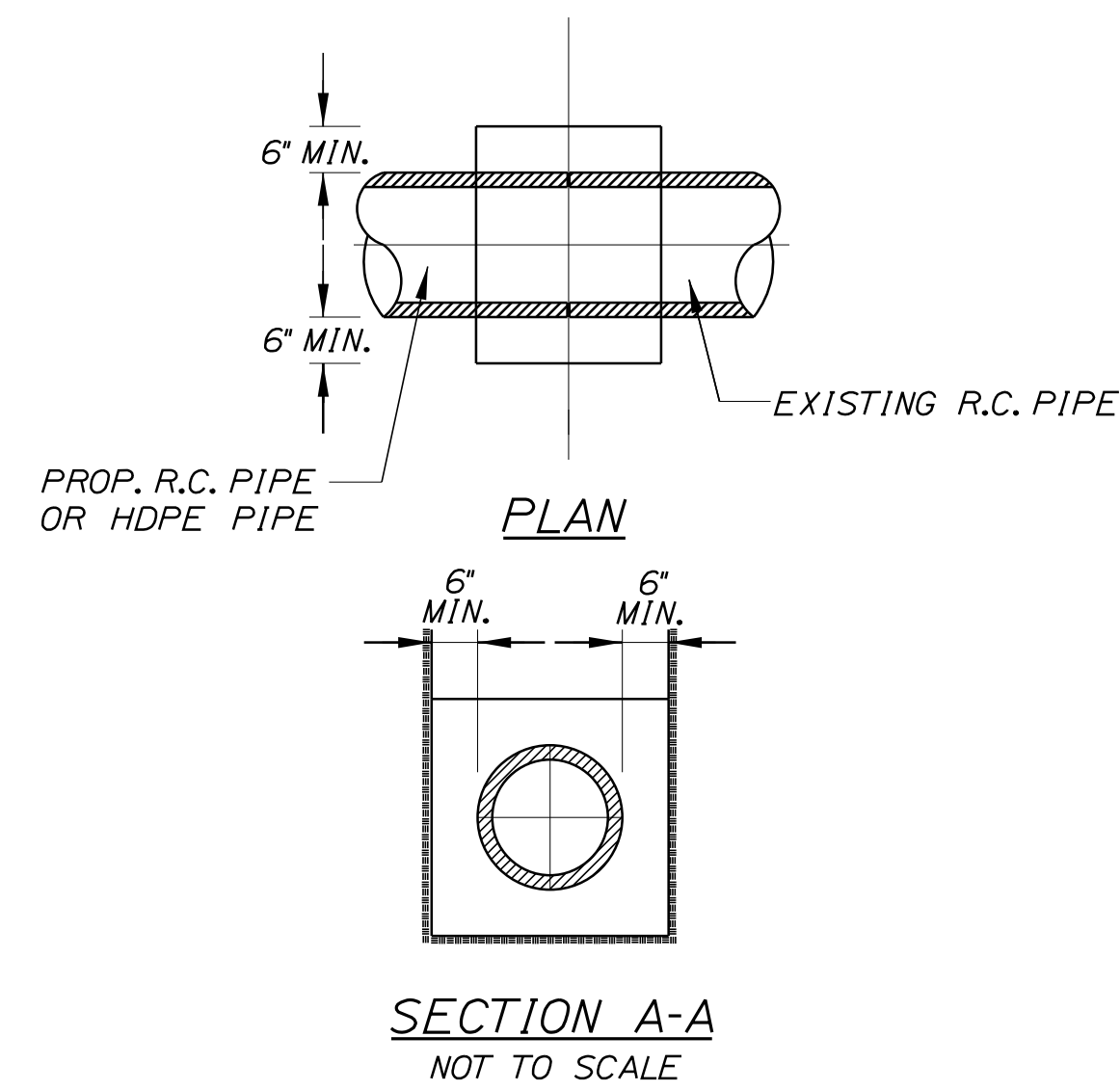
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

EROSION DETAILS 1

SHEET NUMBER: DET-08  
CONTRACT:2022.07  
106 OF 735

Date:10/17/2022



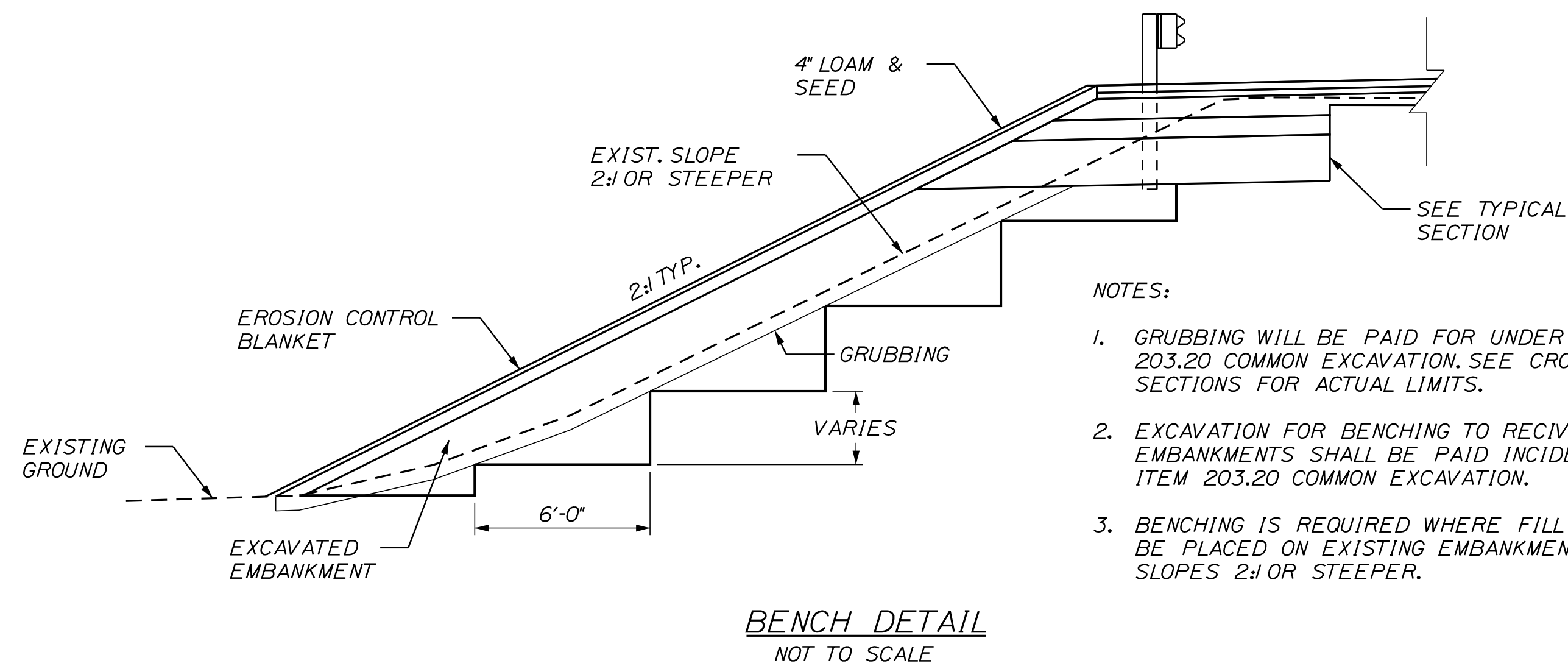
**CONCRETE COLLAR FOR REINFORCED CONCRETE PIPES**  
NTS

**CONCRET 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

**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.



**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 SHALL BE PAID 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.

Filename: ...:\00\HIGHWAY\MSTA\...Details.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

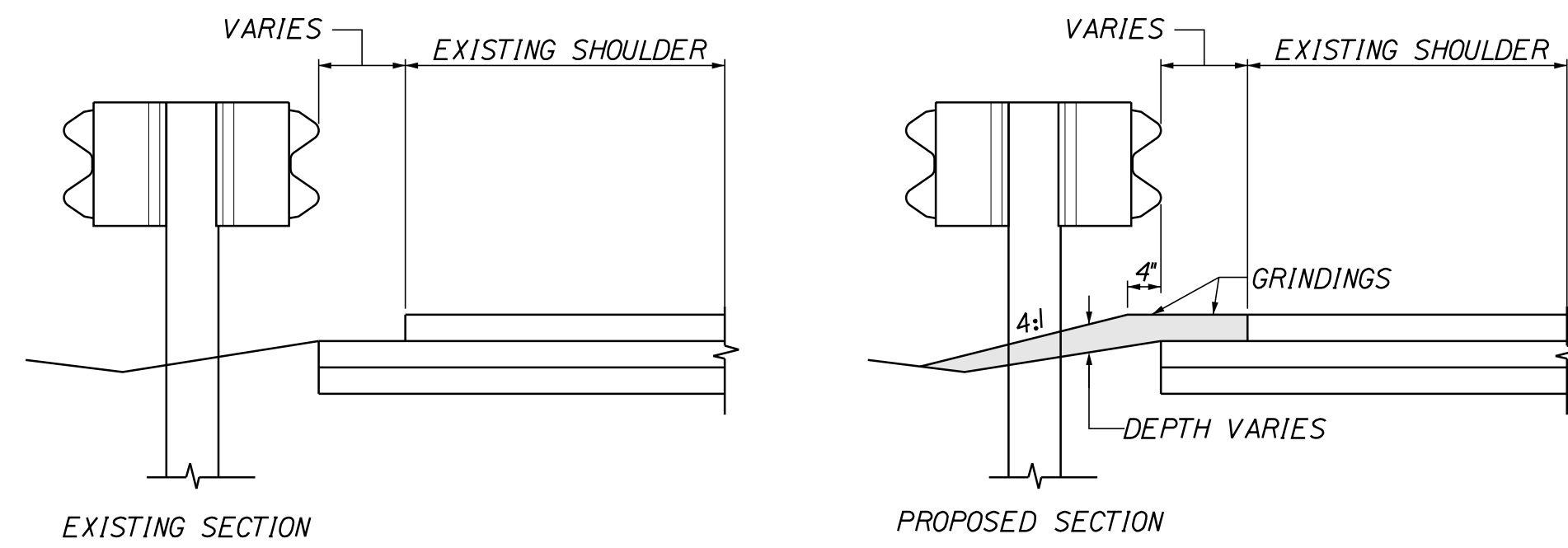
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

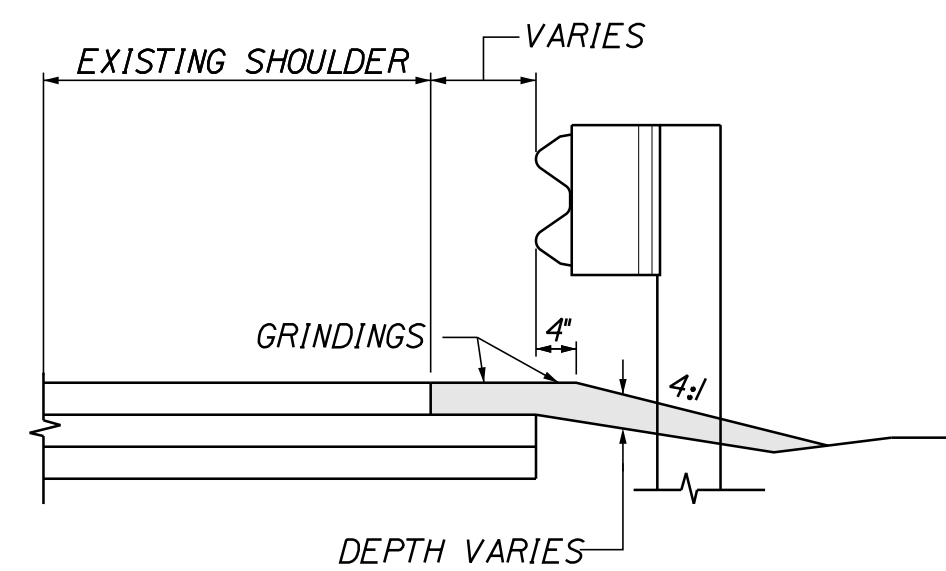
EROSION DETAILS 2

SHEET NUMBER: DET-09  
CONTRACT:2022.07  
107 OF 735

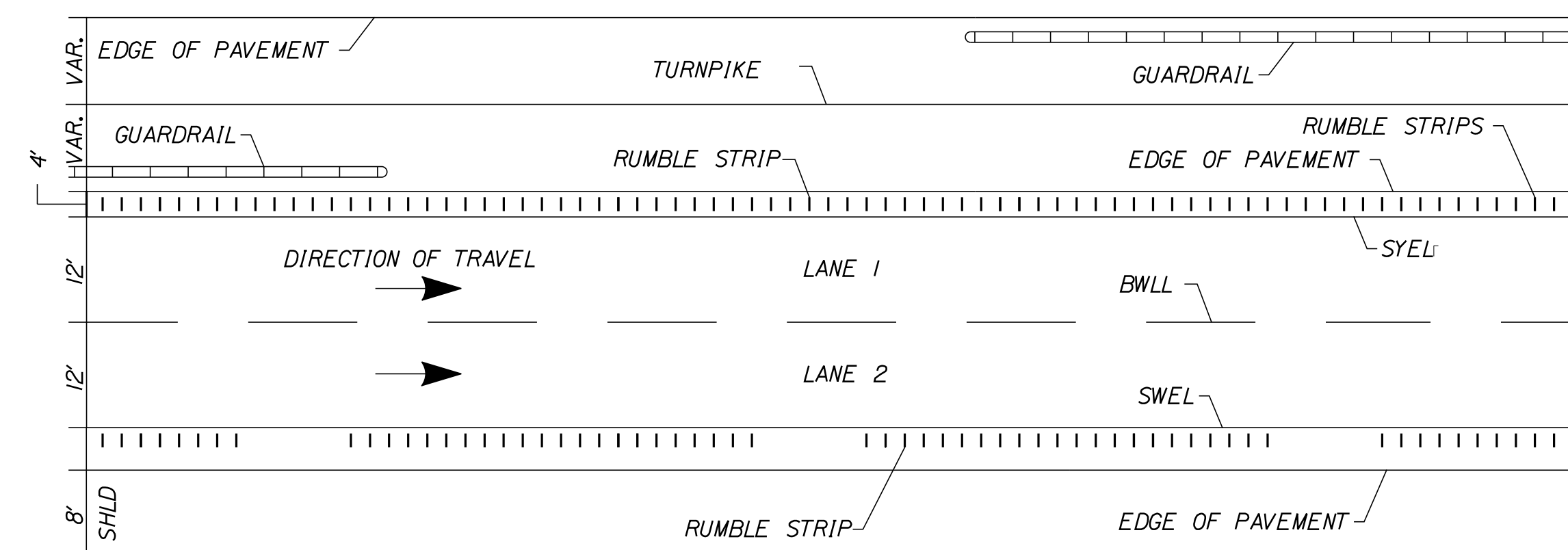
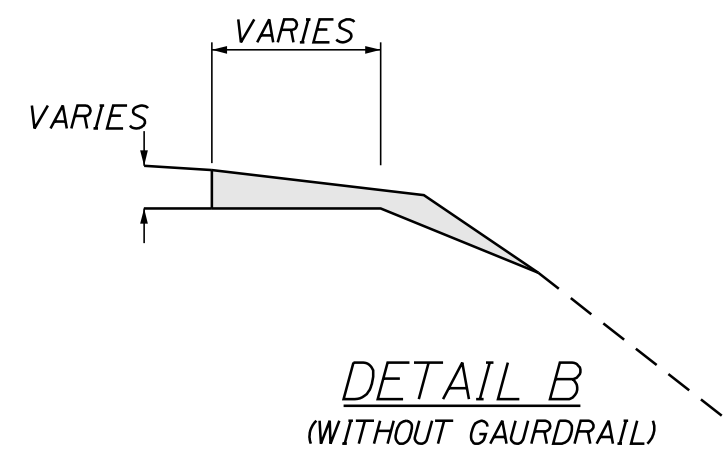
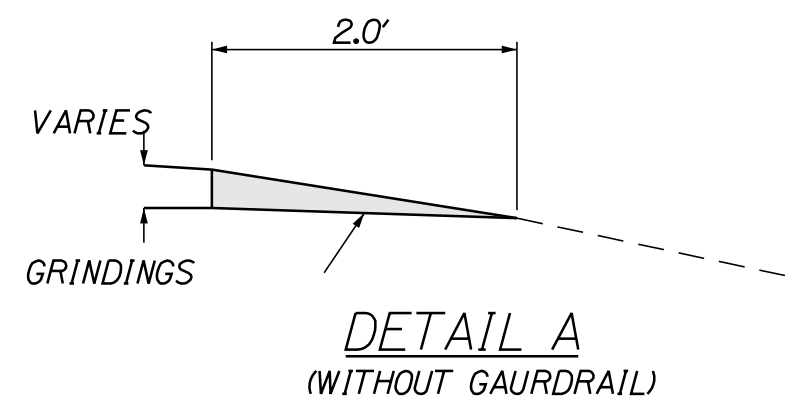
Date: 10/17/2022



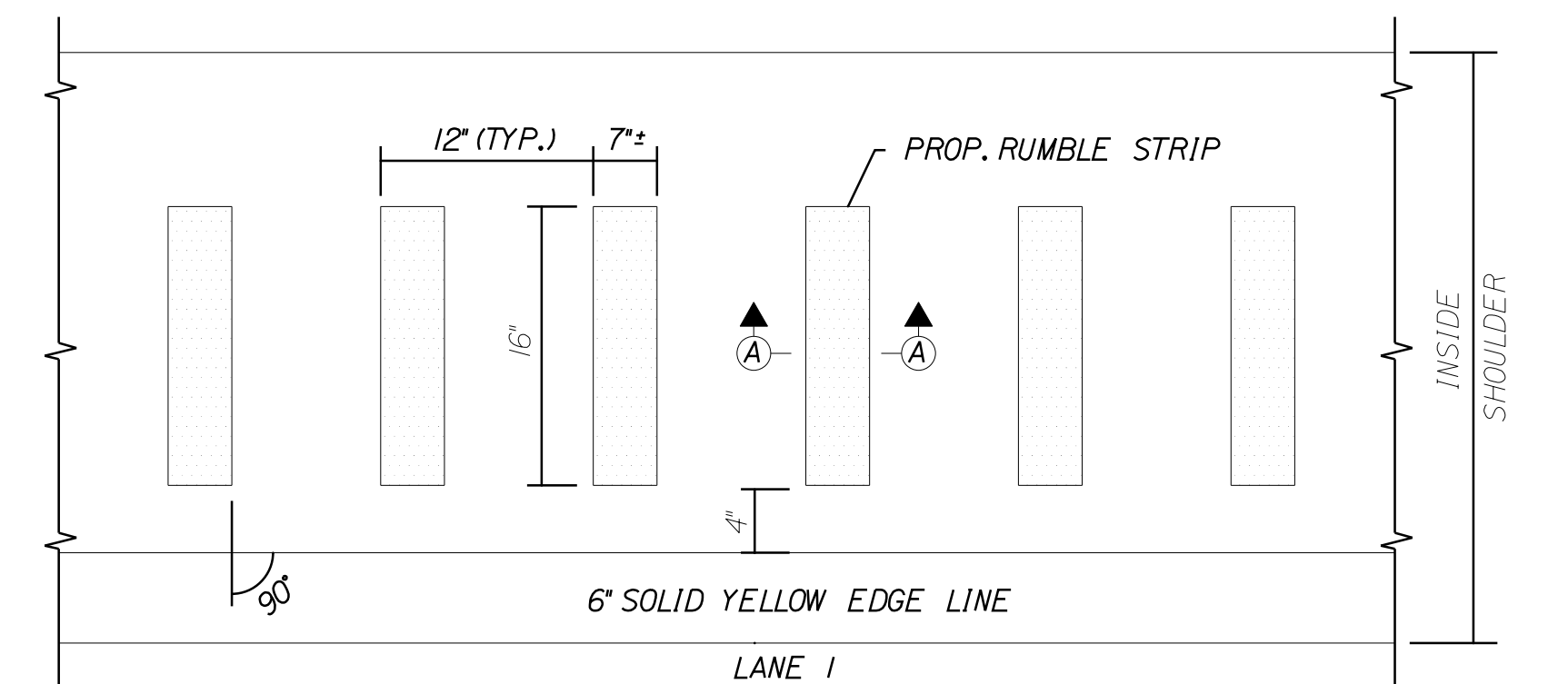
**BERM DROPOFF CORRECTION WITH  
GUARDRAIL MEDIAN GUARDRAIL**  
N.T.S.



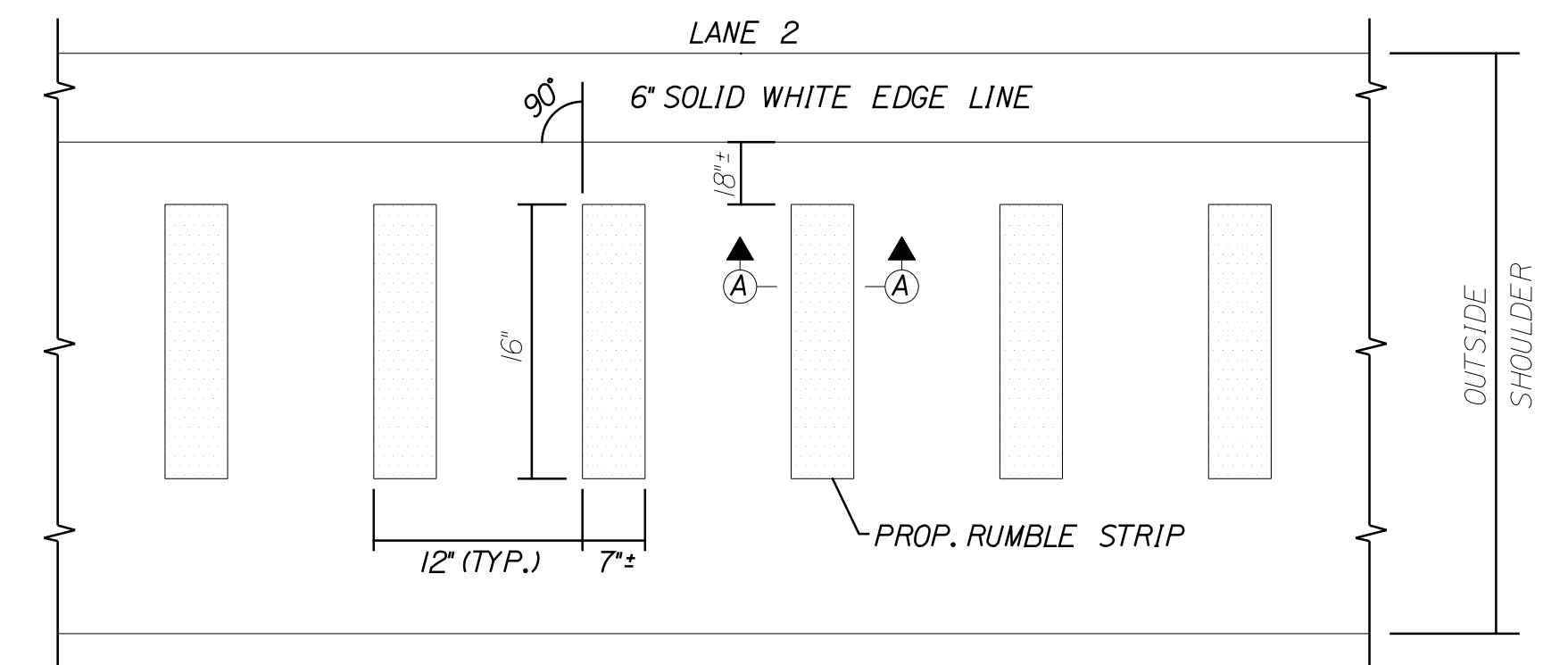
**BERM DROPOFF CORRECTION WITH  
GUARDRAIL RIGHT OUTSIDE OF SHOULDER**  
N.T.S.



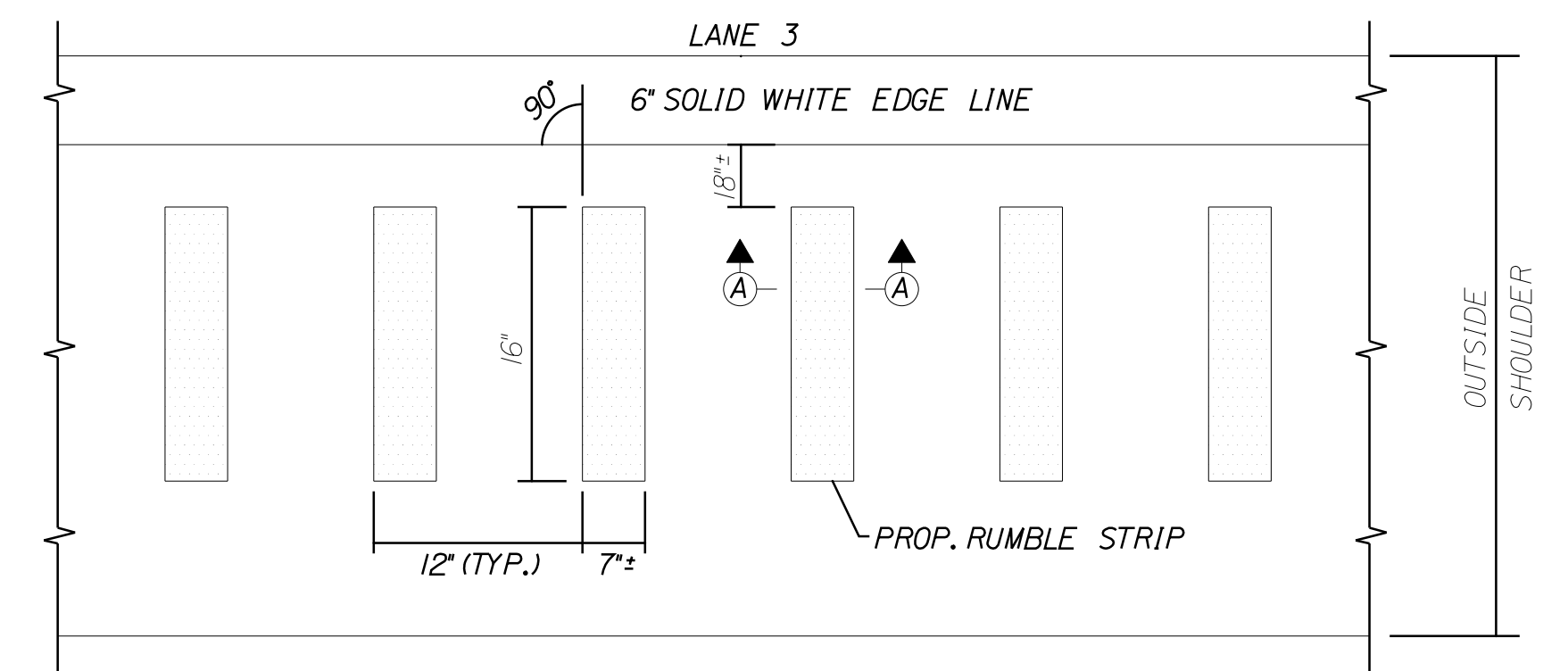
**LOCATION OF RUMBLE STRIPS**  
N.T.S.



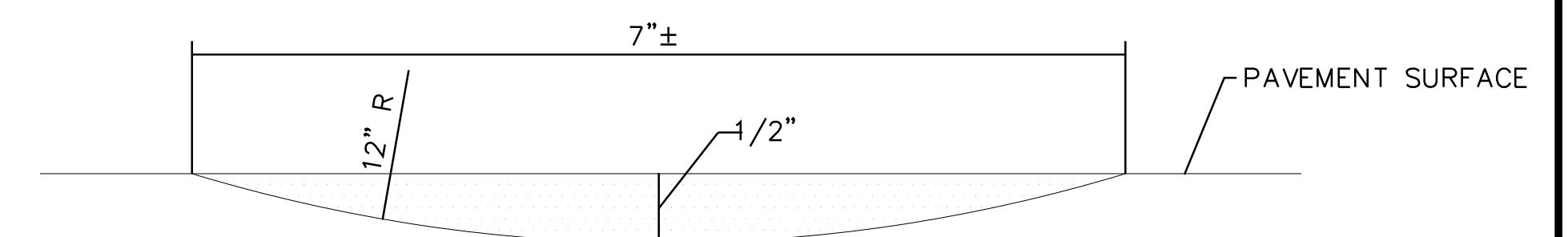
**PLAN VIEW - LANE 1**  
N.T.S.



**PLAN VIEW - LANE 2**  
N.T.S.



**PLAN VIEW - LANE 3**  
N.T.S.



**SECTION A-A**  
N.T.S.

**NOTES:**

1. INSTALL LANE 3 RUMBLE STRIP WITH A 20' GAP EVERY 100'. (I.E. 80' OF RUMBLE STRIP AND 20' OF NO RUMBLE STRIP; REPEAT...)
2. INSTALL LANE 1 RUMBLE STRIP WITH NO GAPS. A BREAK IN THE LANE 1 RUMBLE STRIP IS REQUIRED FOR A MEDIAN CROSSOVER. SEE RUMBLE STRIP PLACEMENT DETAIL FOR LAYOUT REQUIREMENTS.

Filename: ...\\00\HIGHWAY\MSTA\...Details.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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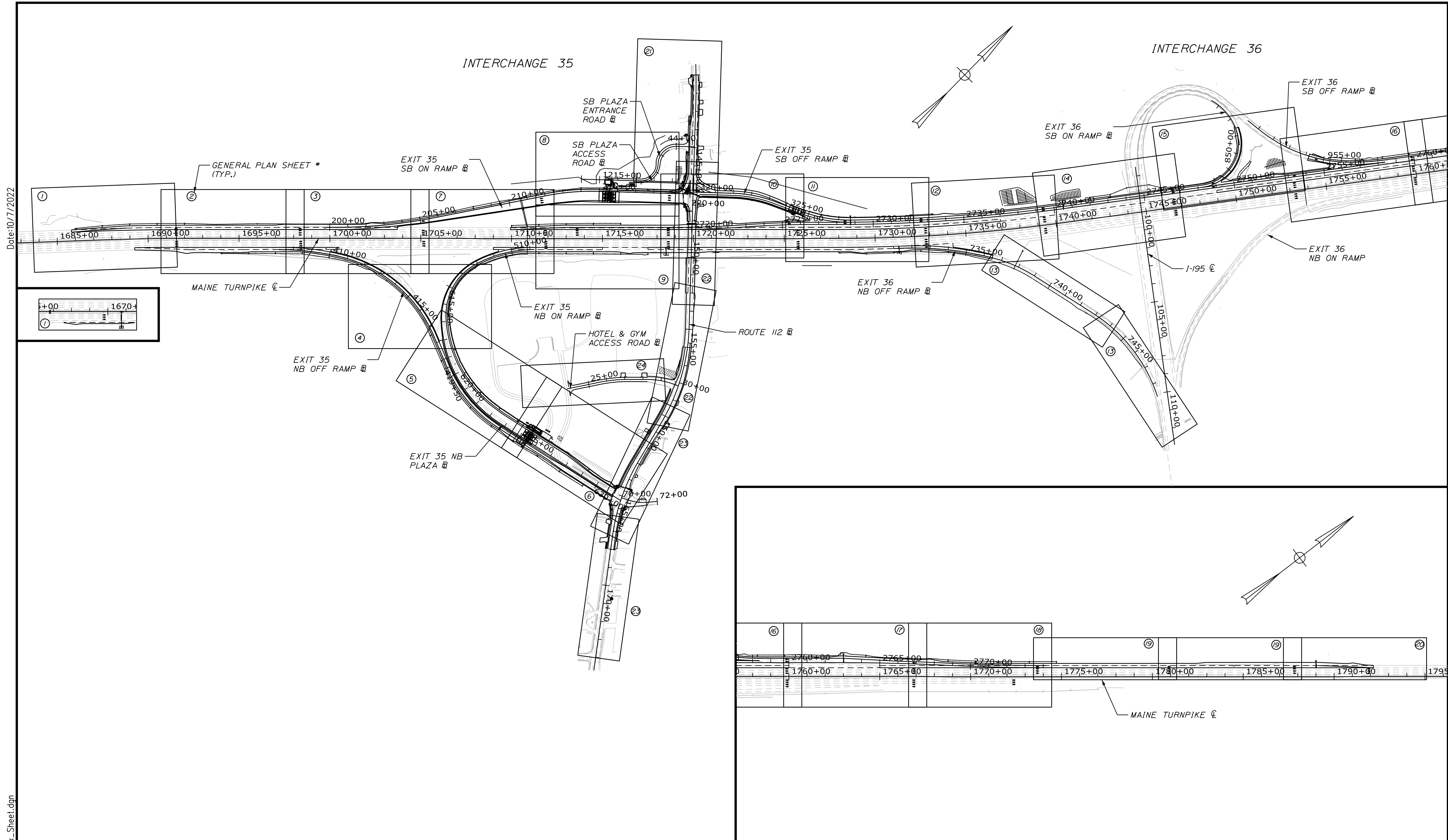


**THE GOLD STAR  
MEMORIAL HIGHWAY**

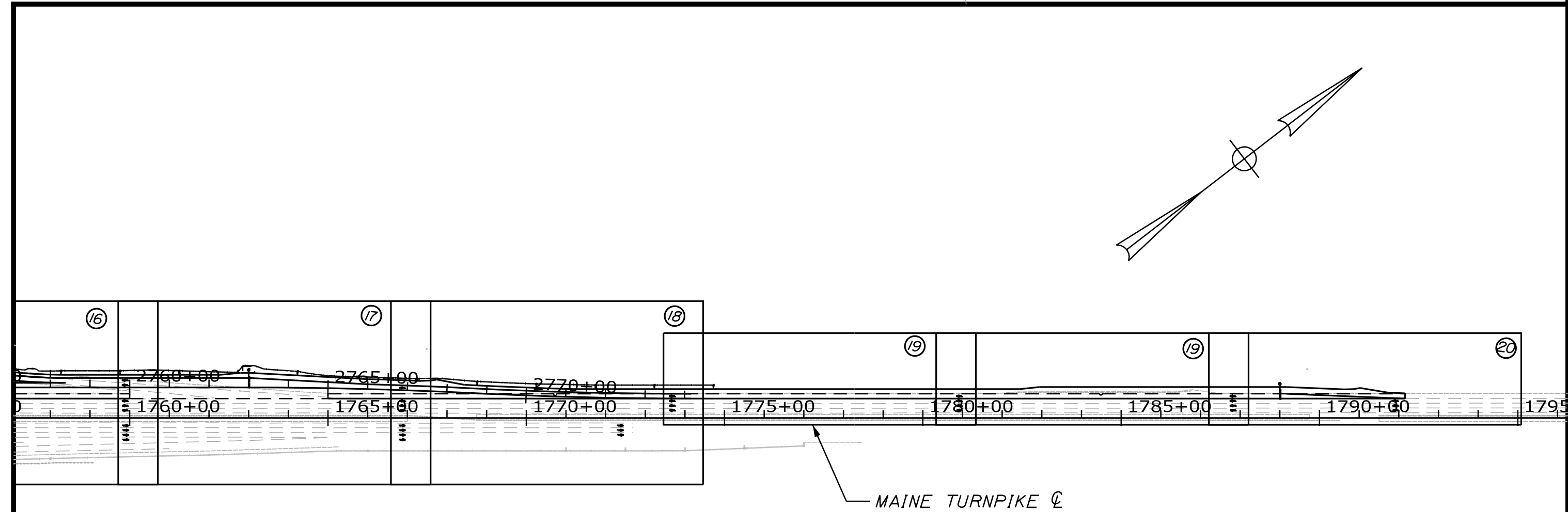
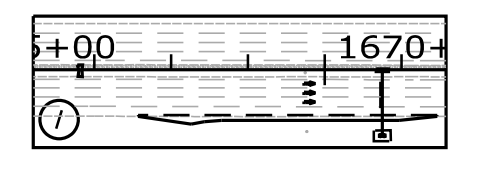
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
MISCELLANEOUS DETAILS  
BERM DROPOFF & RUMBLE STRIP**

SHEET NUMBER: DET-10  
CONTRACT: 2022.07  
108 OF 735



Date: 10/17/2022



Filename: ...MSTA\_GP\_Index\_Sheet.dgn

Scale: 250 0 250 500  
Scale of Feet

No.	Revision	By	Date

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**MAINE TURNPIKE**

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

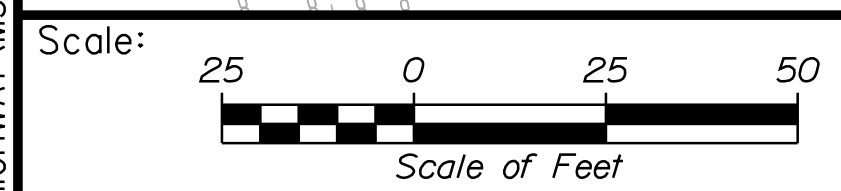
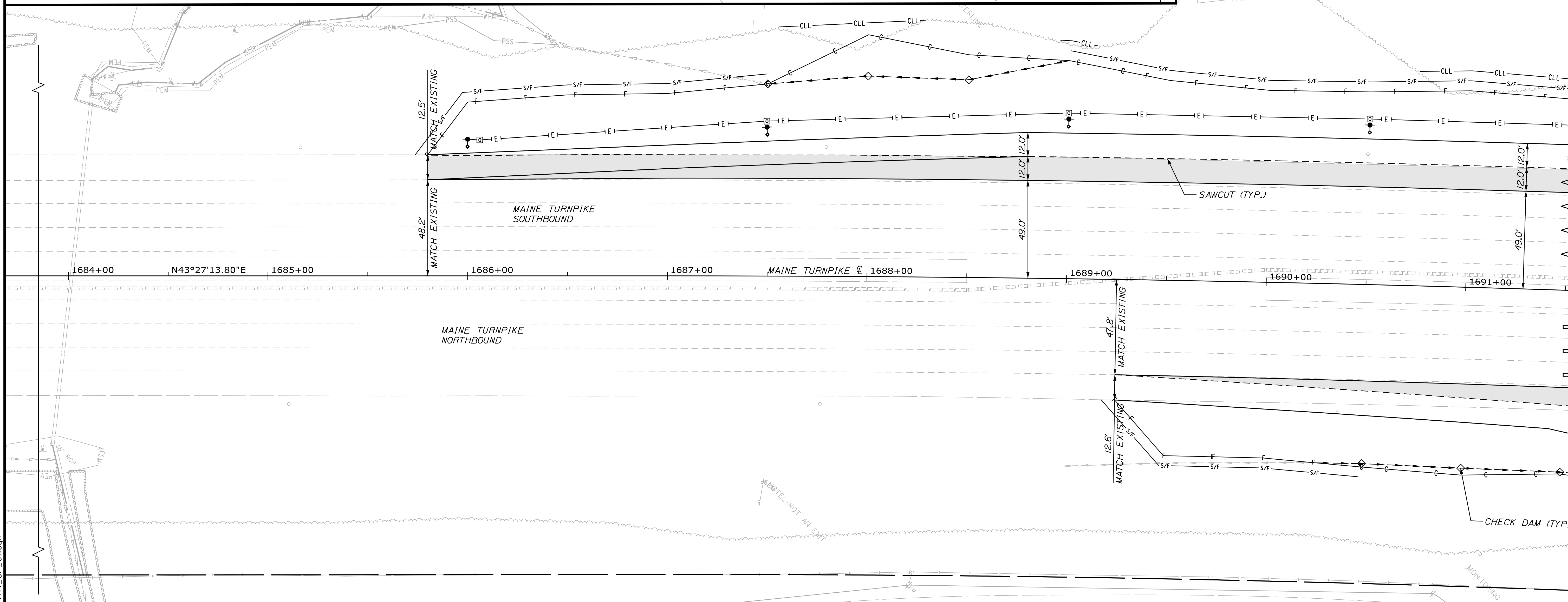
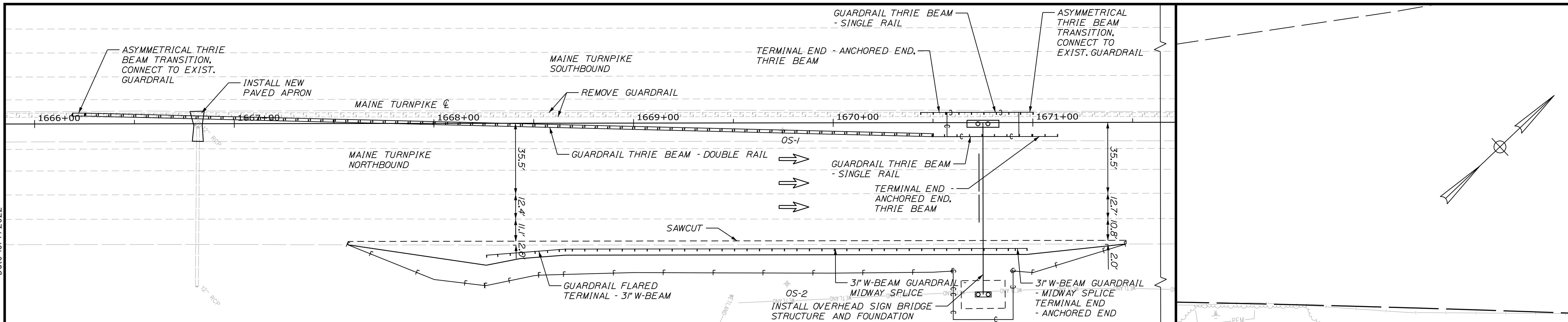
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL INDEX PLAN

SHEET NUMBER: GP-01  
109 OF 735

CONTRACT: 2022.07

Date: 10/17/2022



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No.	Revision	By	Date

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 1

SHEET NUMBER: GP-02

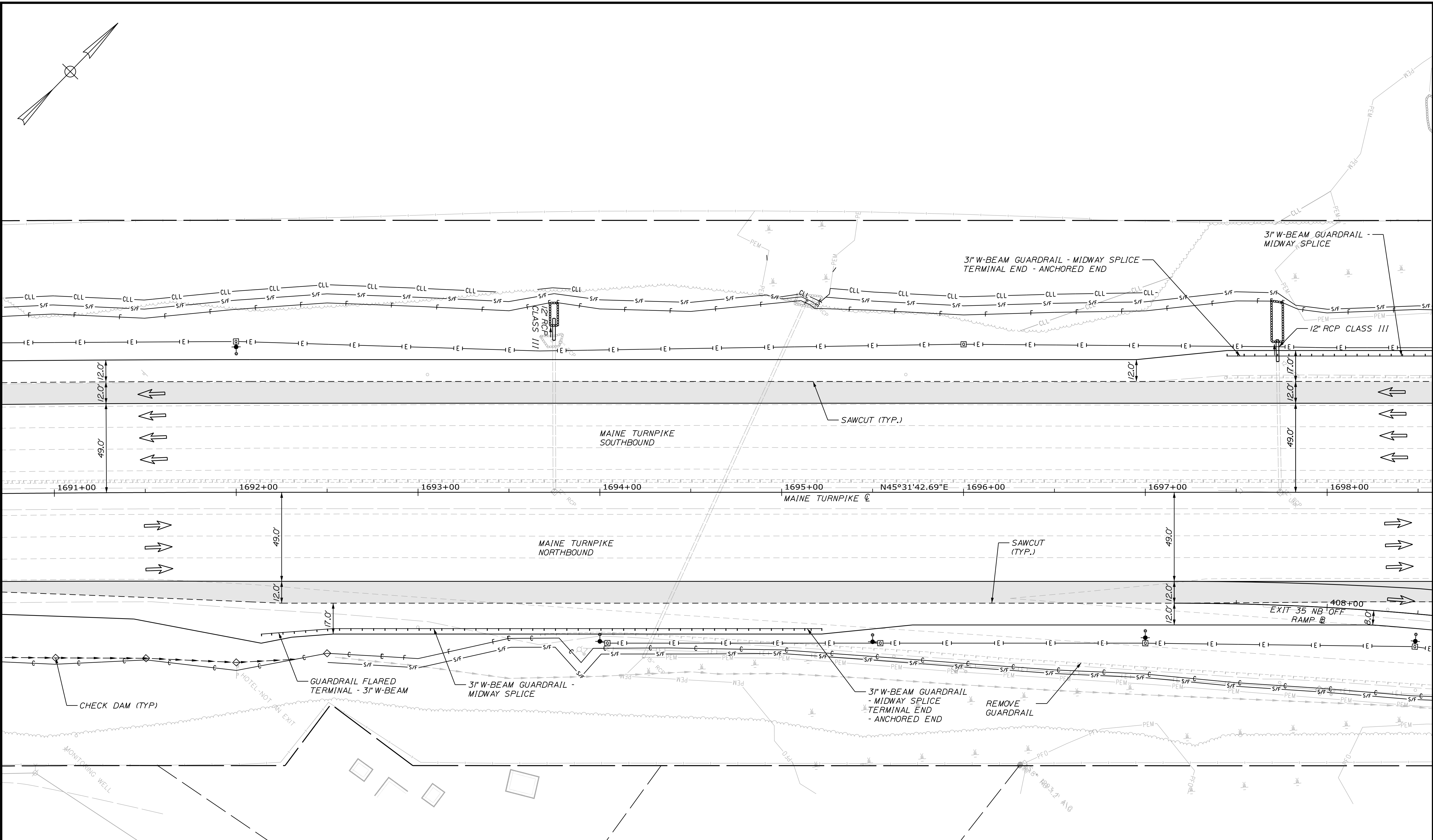
CONTRACT: 2022.07

110 OF 735

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Date: 10/17/2022

Filename: ...100\HIGHWAY\MSTA\GP\_02.dgn



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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

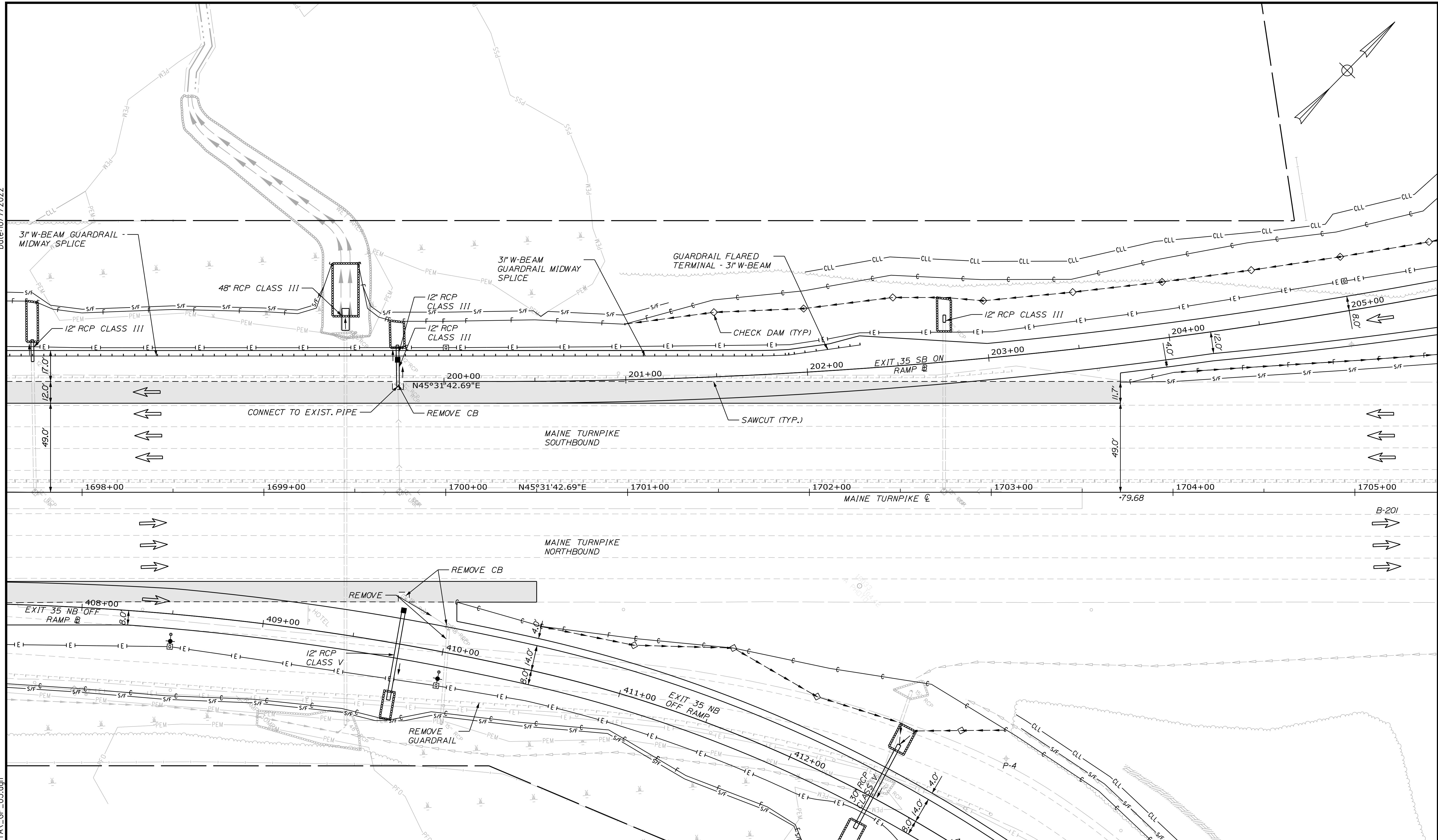
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SHEET NUMBER: GP-03  
111 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

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Scale of Feet

No.	Revision	By	Date

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

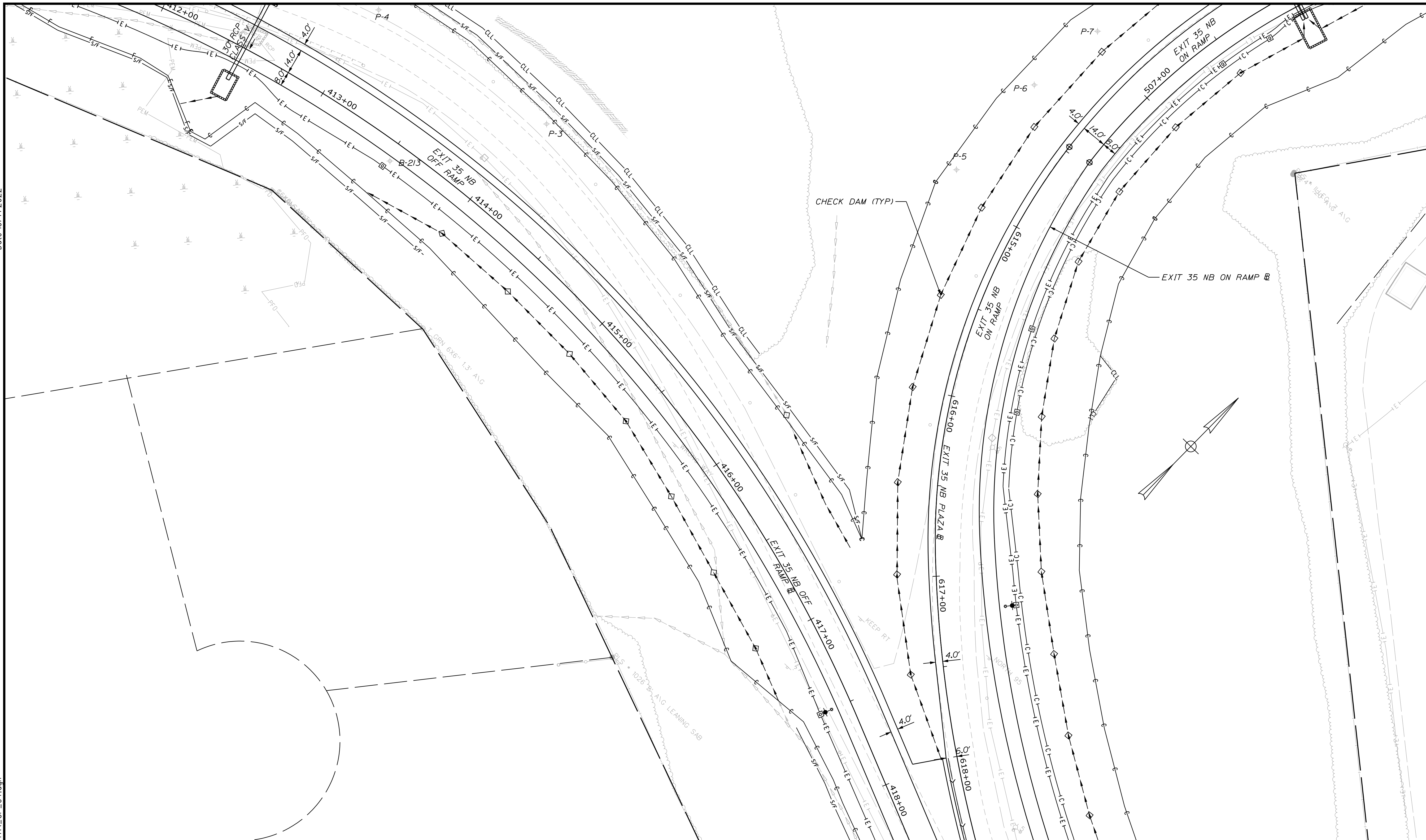
GENERAL PLAN 3

SHEET NUMBER: GP-04  
CONTRACT: 2022.07  
112 OF 735



Date: 10/17/2022


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Scale of Feet

No.	Revision	By	Date

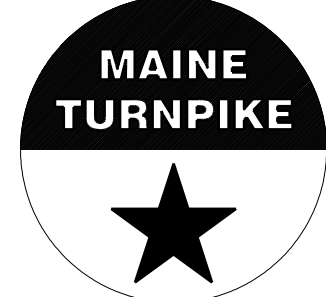
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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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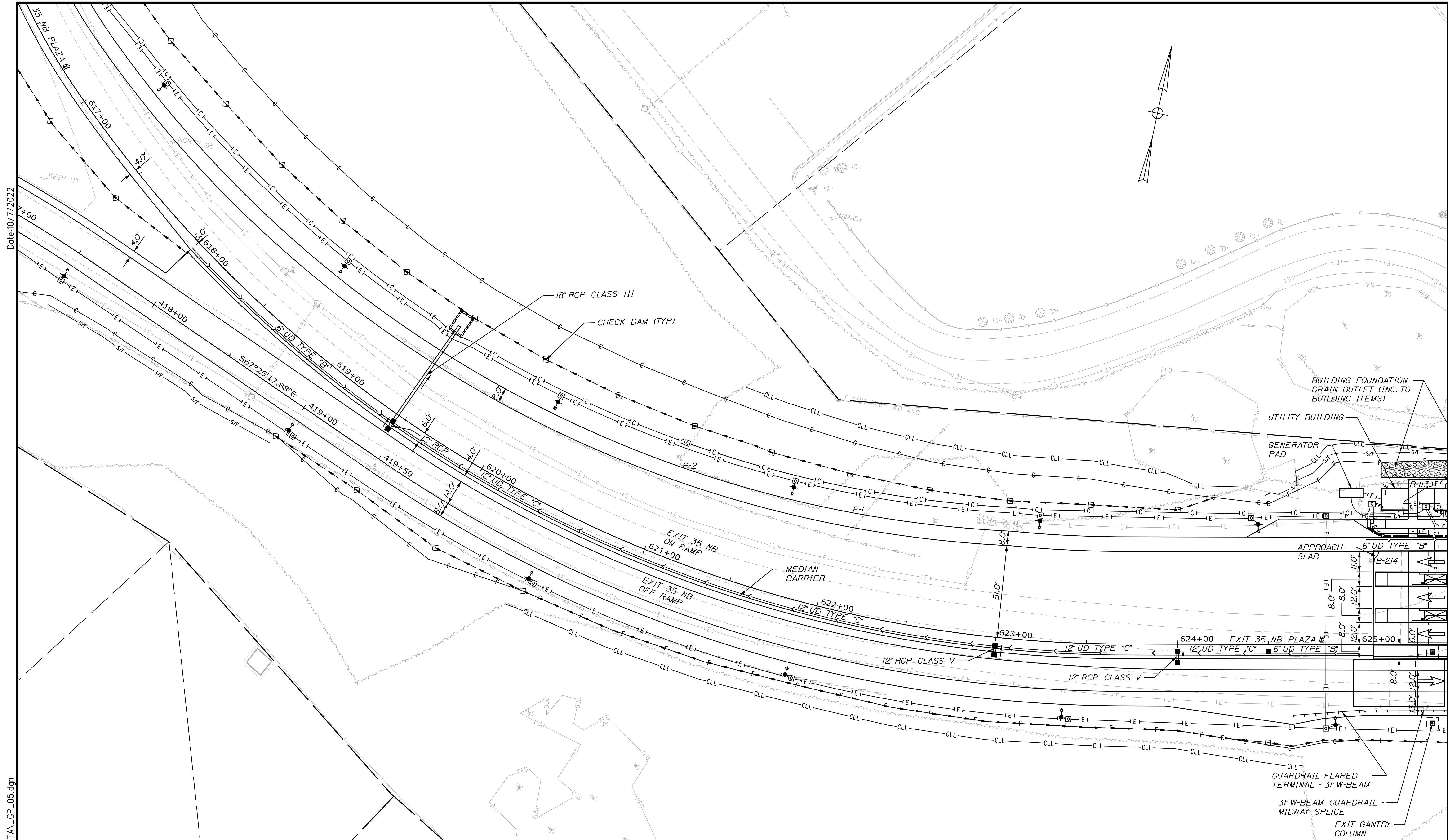
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 4

SHEET NUMBER: GP-05  
113 OF 735

CONTRACT: 2022.07




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Filename: ...00\HIGHWAY\MSTA\GP\_05.dgn

Scale: 25 0 25 50  
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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 5

SHEET NUMBER: GP-06

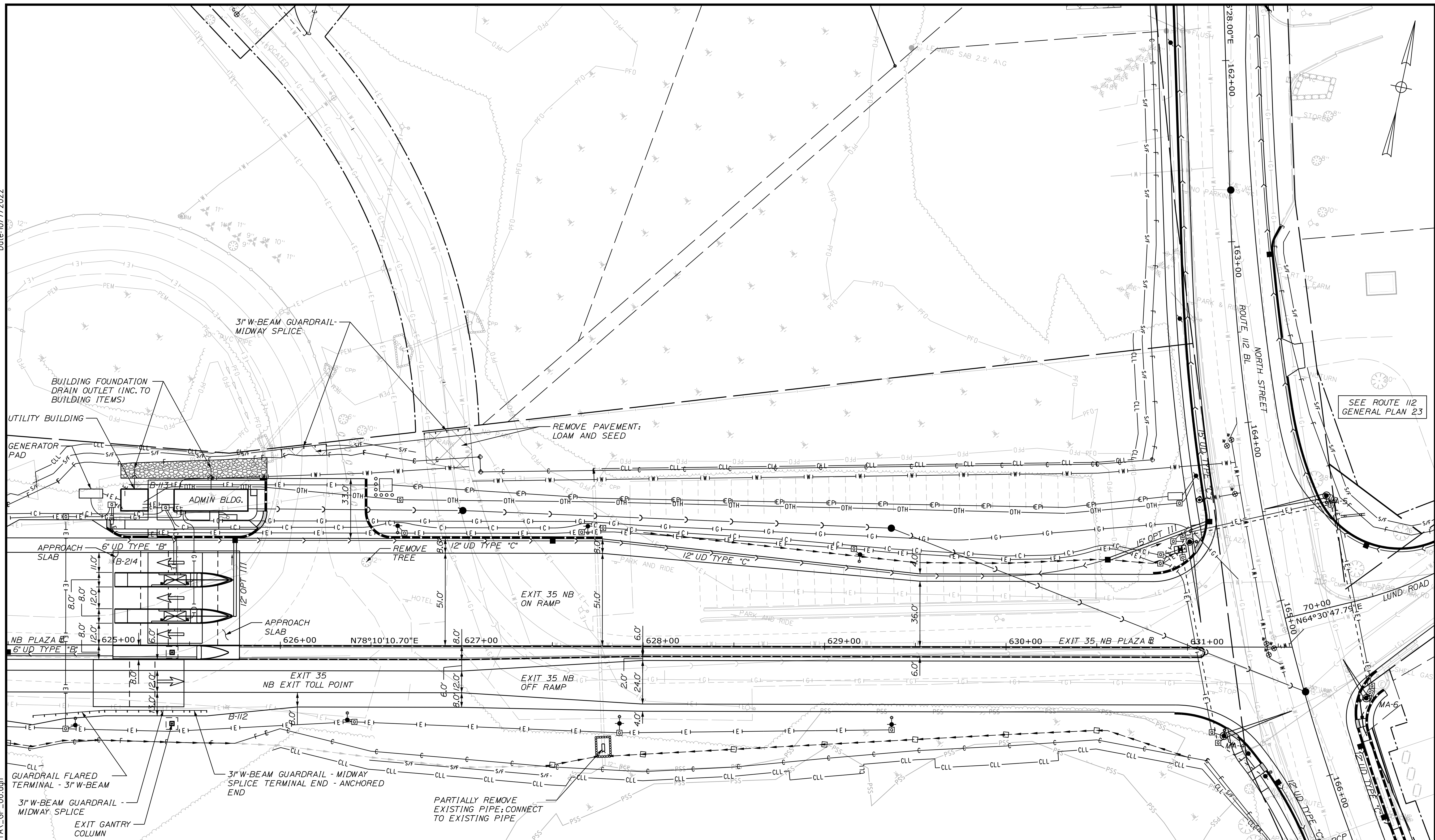
CONTRACT: 2022.07

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

Date: 10/17/2022

Filename: ...100.HIGHWAY.MSTA...\_GP\_06.dgn




SEE ROUTE 112 GENERAL PLAN 23

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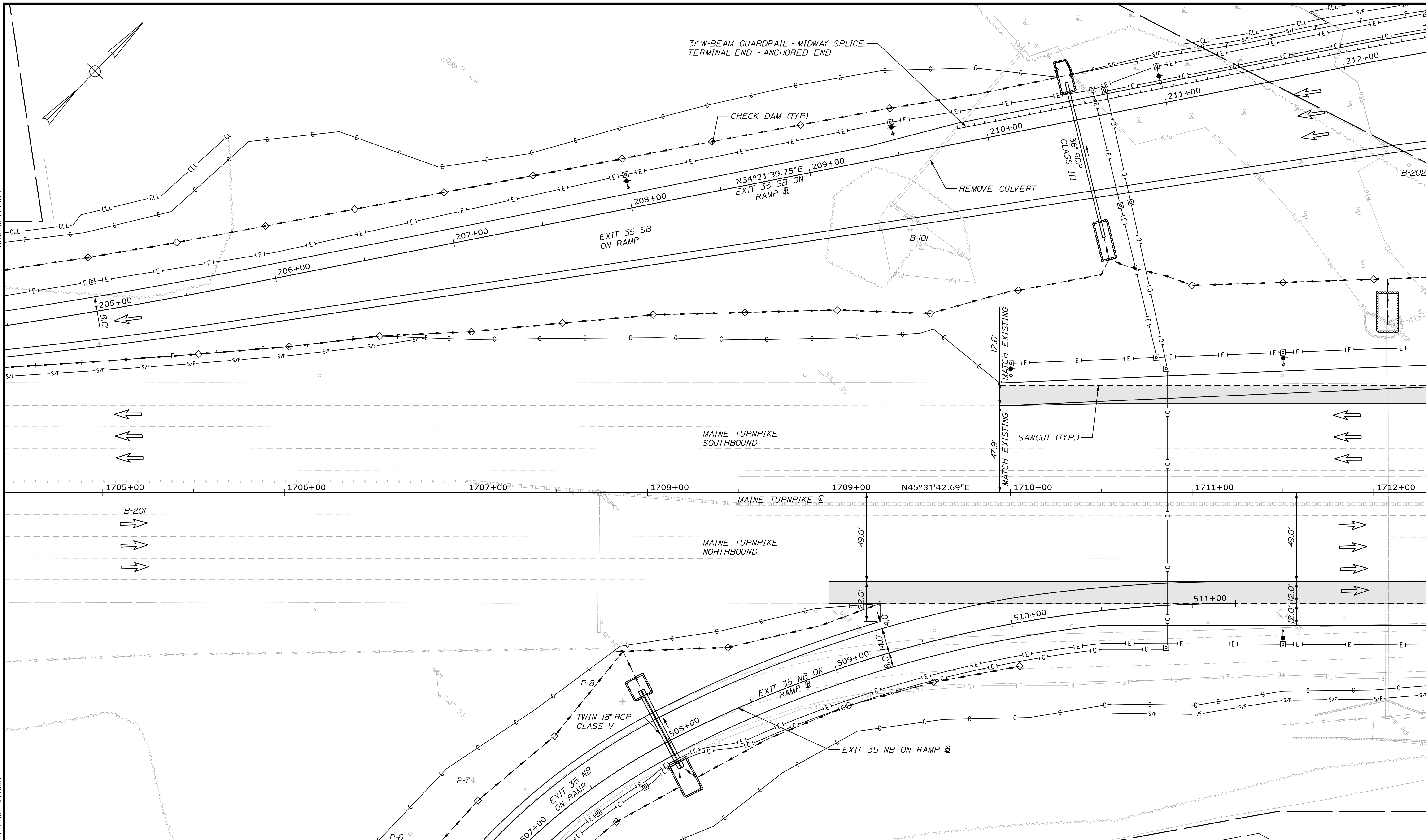
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

**GENERAL PLAN 6**

SHEET NUMBER: GP-07  
CONTRACT: 2022.07  
115 OF 735

Date: 10/7/2022


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Scale: 25 0 25 50  
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No.	Revision	By	Date

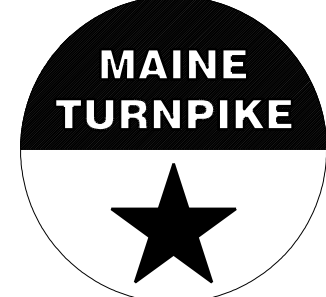
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
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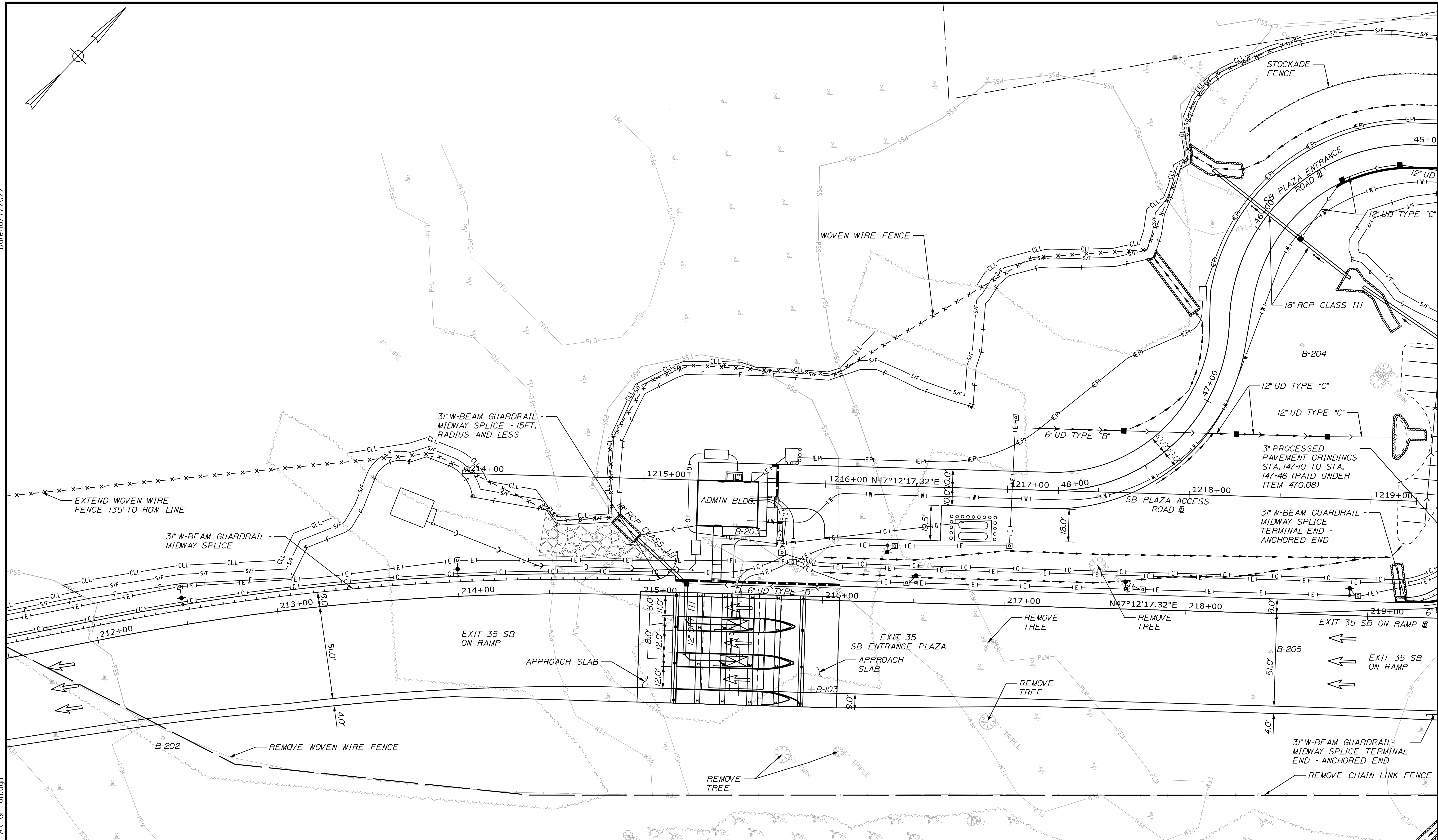
**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)**

**GENERAL PLAN 7**

SHEET NUMBER: GP-08  
CONTRACT: 2022.07  
116 OF 735

Date: 10/7/2022

Filename: ...000\HIGHWAY\MSTA\GP\_08.dgn



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

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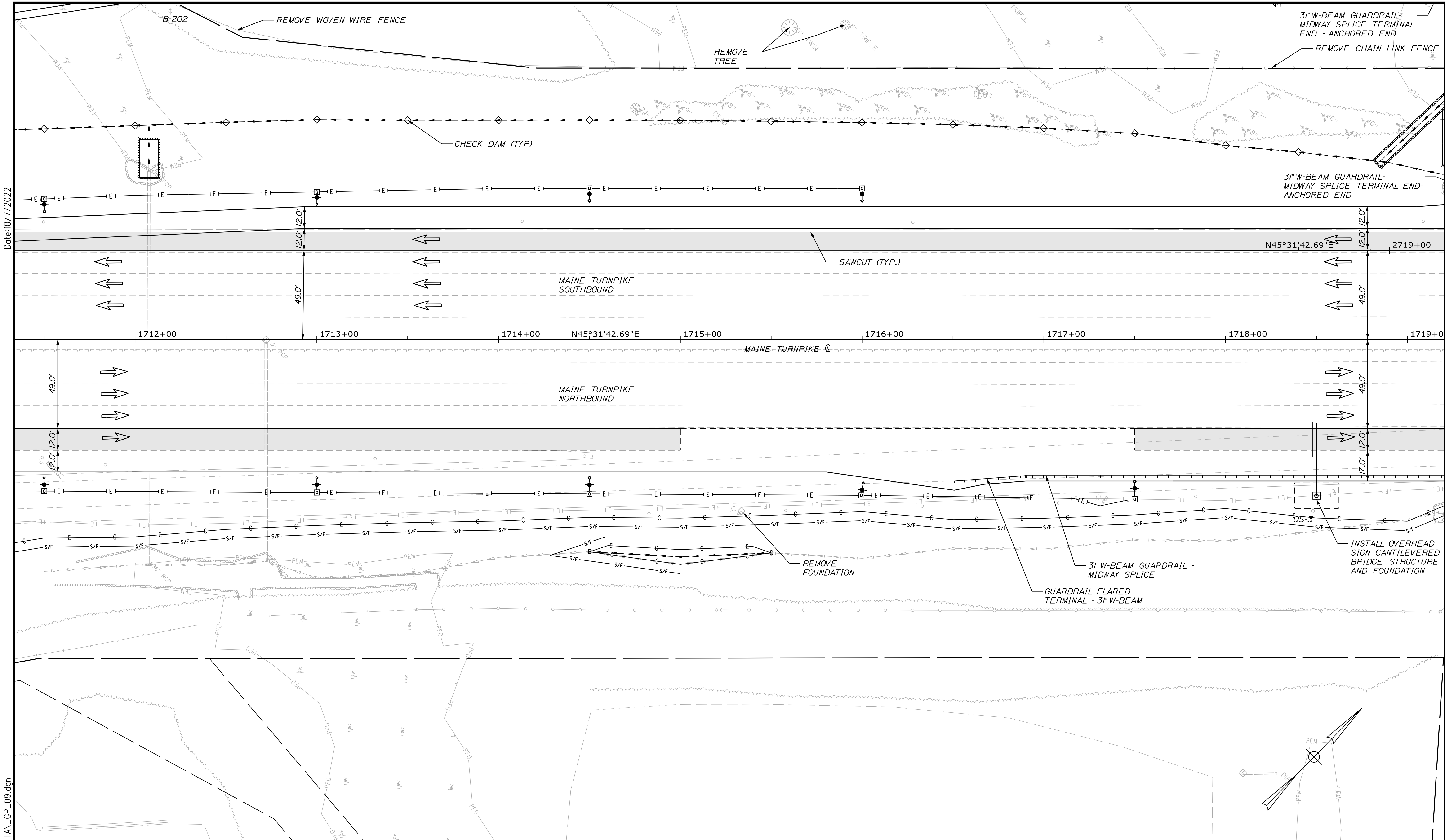
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)**

**GENERAL PLAN 8**

SHEET NUMBER: GP-09  
117 OF 735

CONTRACT: 2022.07



Date: 10/7/2022

Filename: ...00\HIGHWAY\MSTA\GP\_09.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

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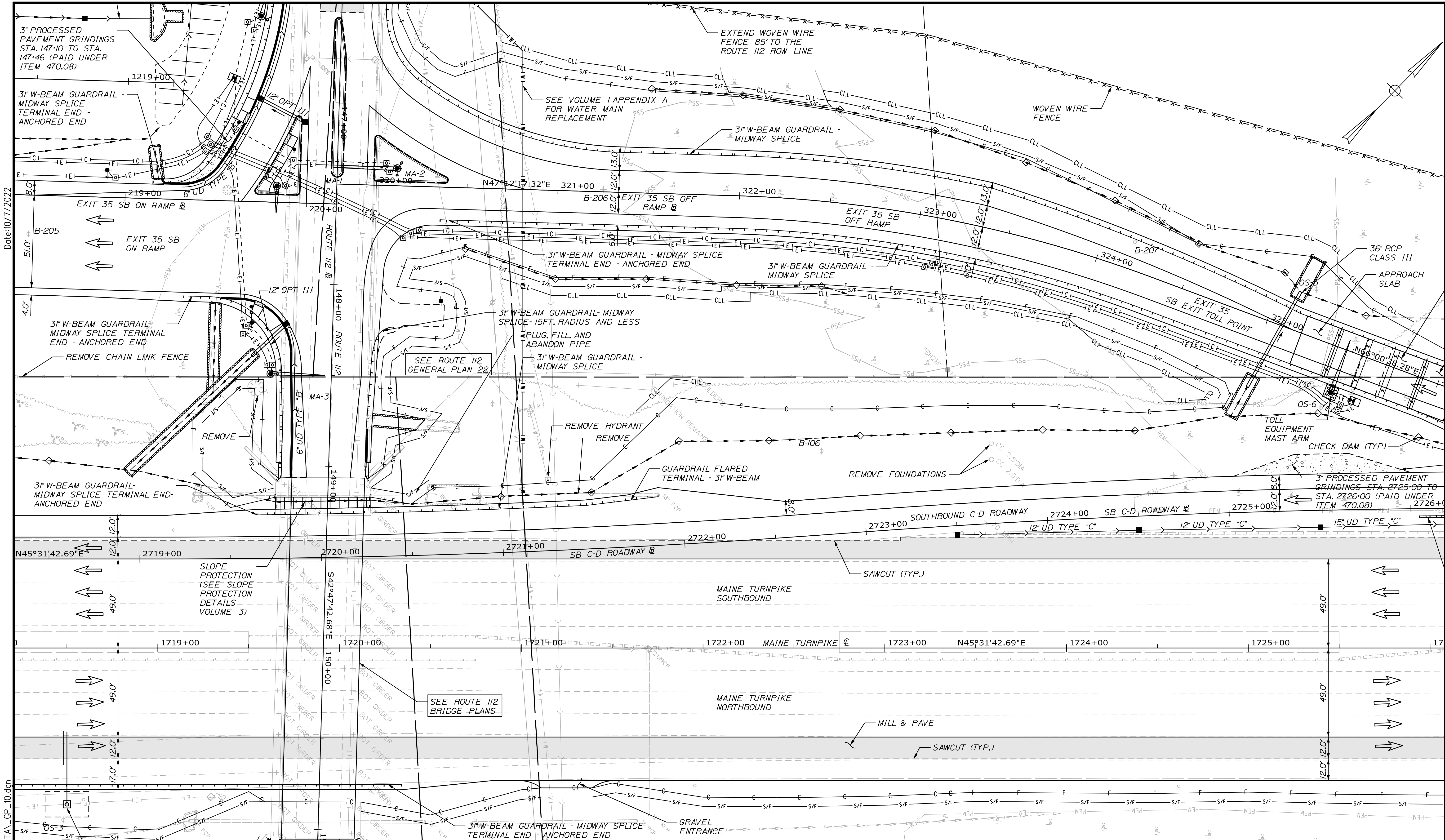
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

**GENERAL PLAN 9**

SHEET NUMBER: GP-10  
18 OF 735

CONTRACT: 2022.07



Date: 10/17/2022

Filename: ...100.HIGHWAY.MSTA\_GP\_10.dgn

Scale: 25 0 25 50  
Scale of Feet

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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

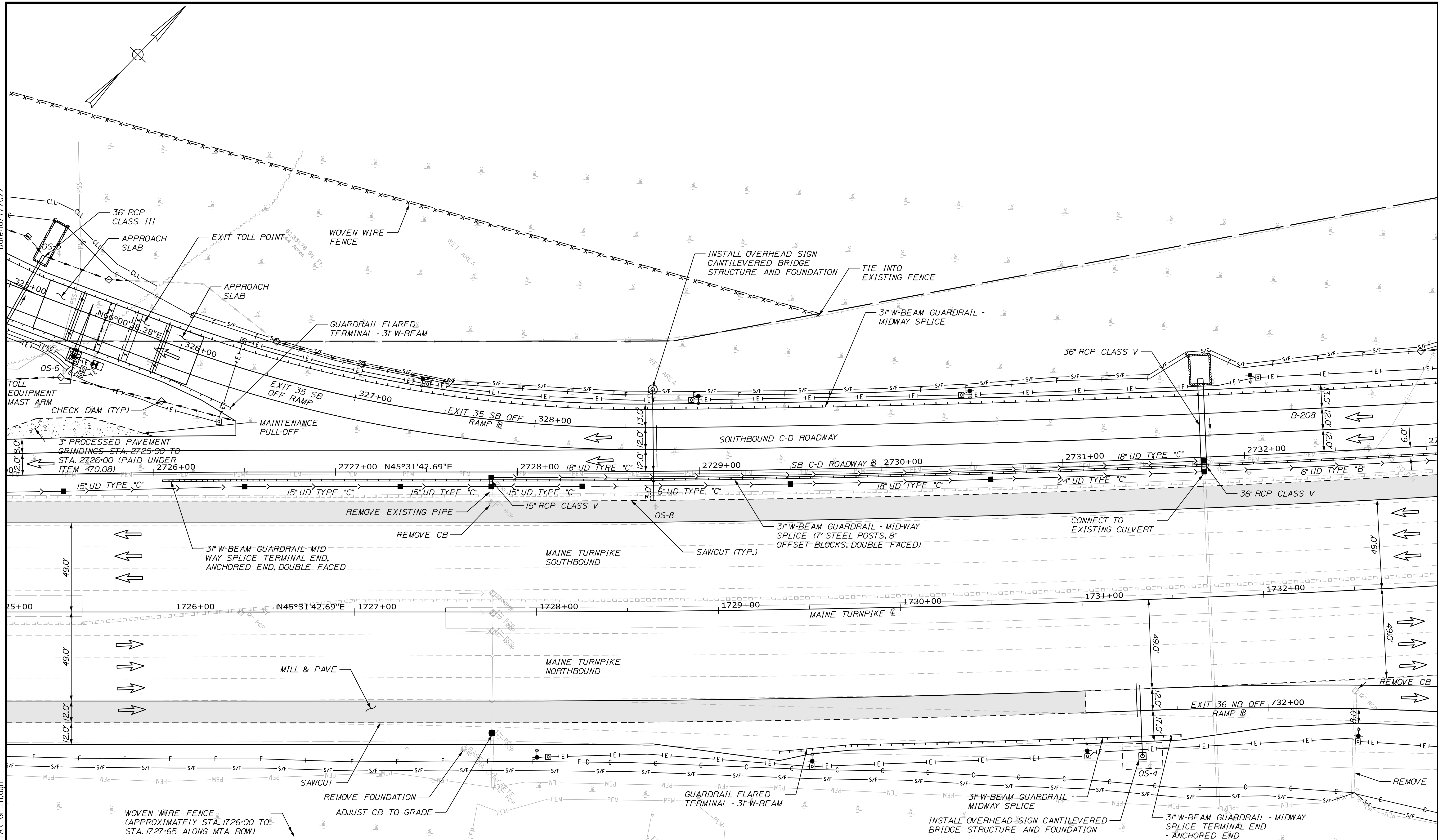
GENERAL PLAN 10

SHEET NUMBER: GP-11  
119 OF 735

CONTRACT: 2022.07

Date: 10/7/2022


Filename: ...100.HIGHWAY.MSTA...GP\_11.dgn



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**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)**

**GENERAL PLAN 11**

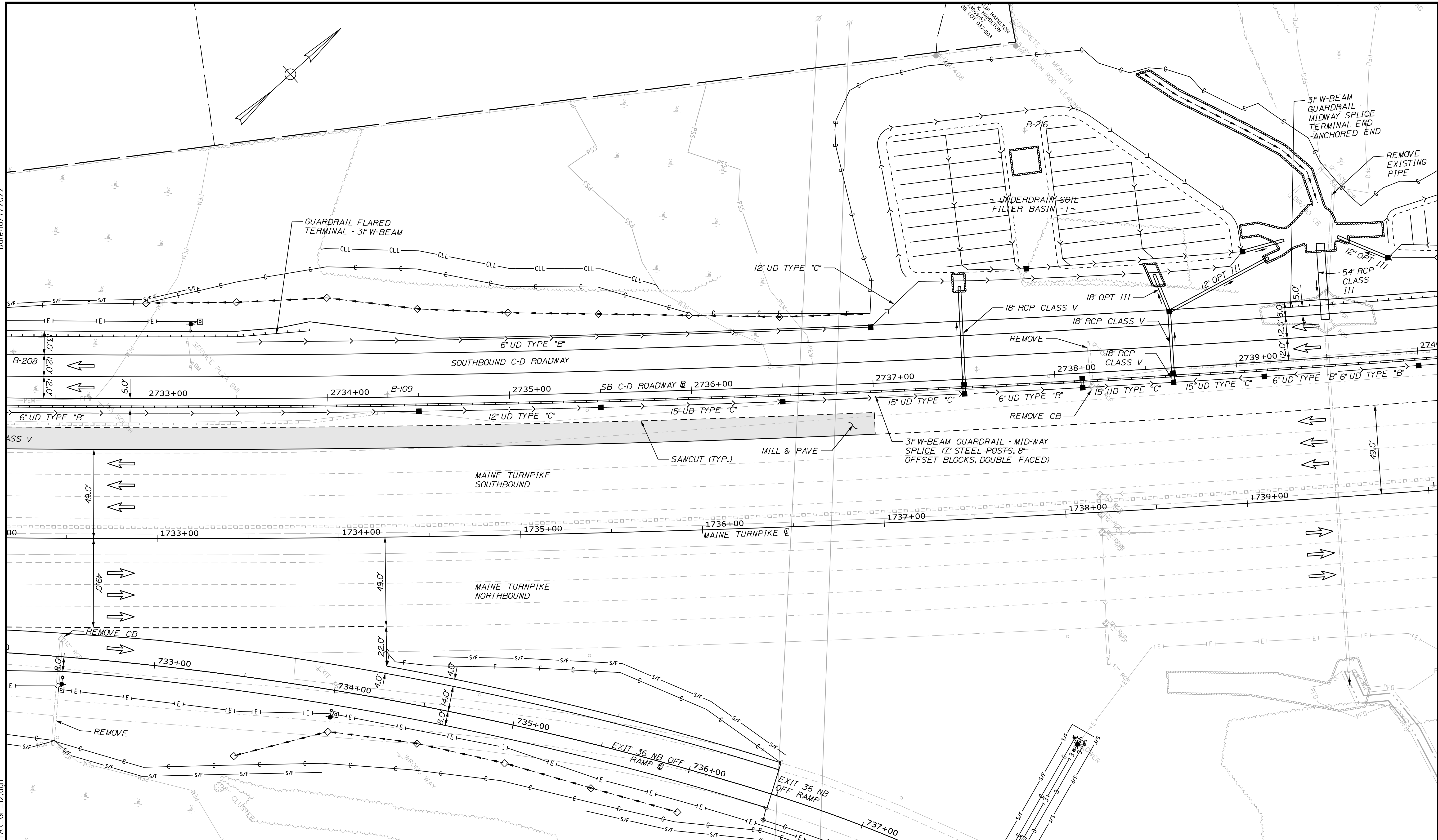
SHEET NUMBER: GP-12  
120 OF 735

CONTRACT: 2022.07



Date: 10/17/2022

Filename: ...:\00\HIGHWAY\INSTA\\_GP\_12.dgn



Scale: 25 0 25 50  
Scale of Feet

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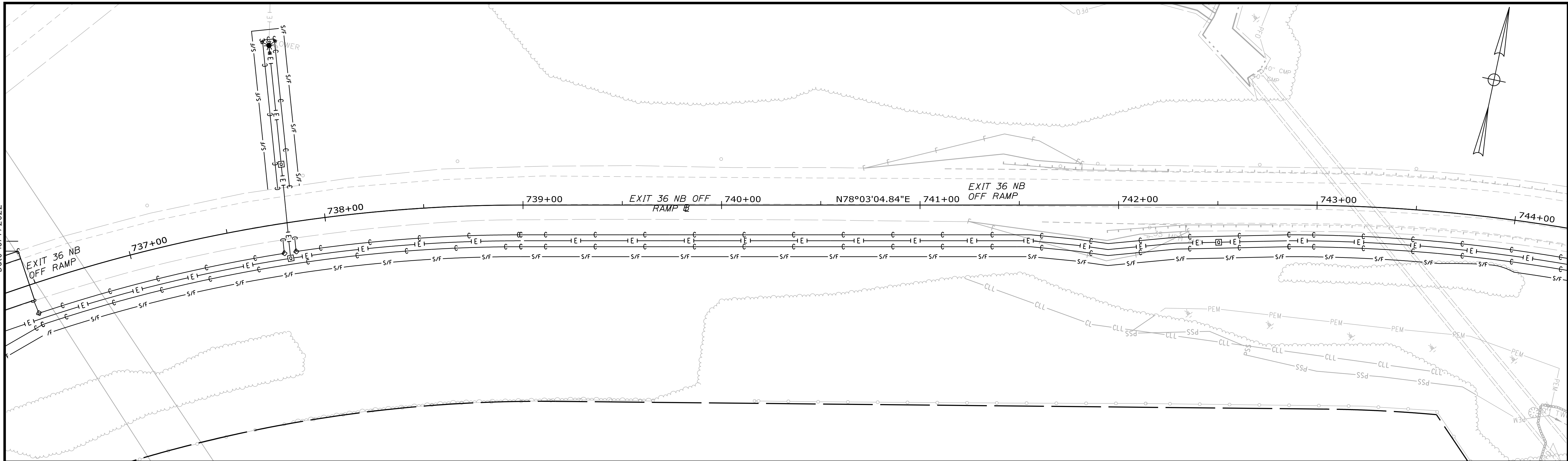
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 12

SHEET NUMBER: GP-13  
121 OF 735

CONTRACT: 2022.07

Date: 10/17/2022



Filename: ...000.HIGHWAY\MSTA\\_GP\_13.dgn

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No.	Revision	By	Date

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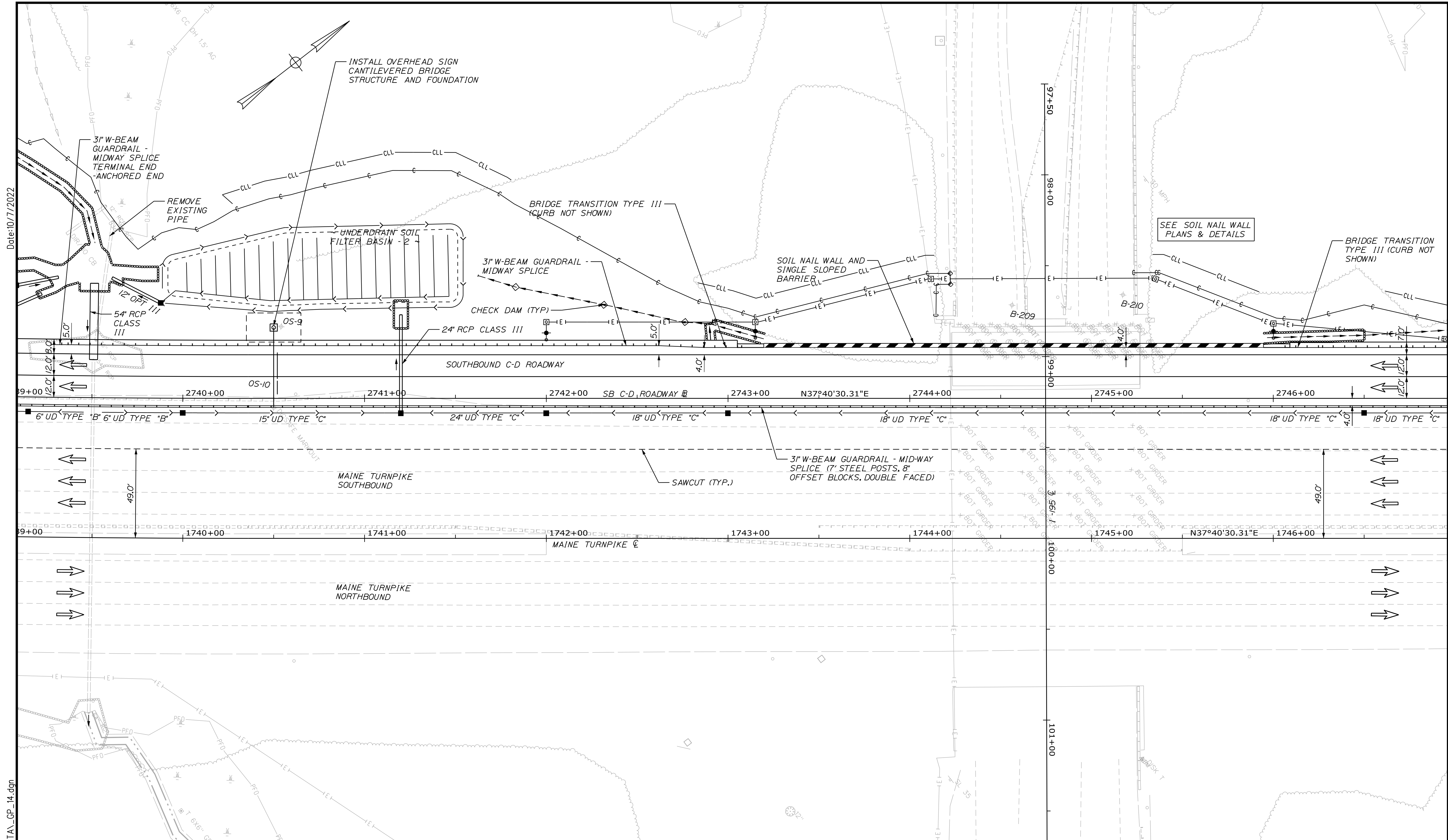
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 13

SHEET NUMBER: GP-14  
122 OF 735

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No.	Revision	By	Date

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Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)**

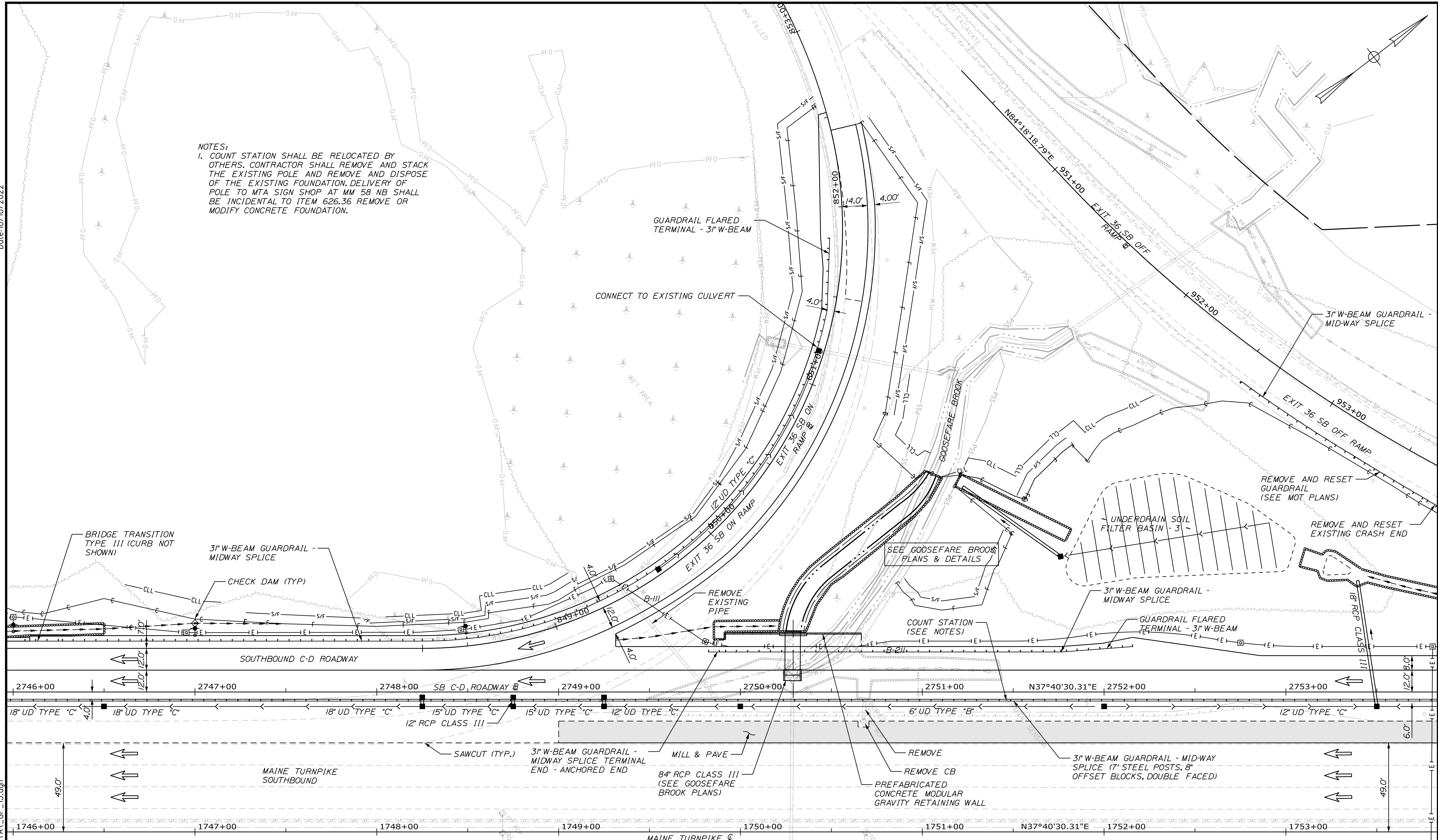
**GENERAL PLAN 14**

SHEET NUMBER: GP-15  
123 OF 735

CONTRACT: 2022.07

Date: 10/10/2022

NOTES:  
 1. COUNT STATION SHALL BE RELOCATED BY OTHERS. CONTRACTOR SHALL REMOVE AND STACK THE EXISTING POLE AND REMOVE AND DISPOSE OF THE EXISTING FOUNDATION. DELIVERY OF POLE TO MTA SIGN SHOP AT MM 58 NB SHALL BE INCIDENTAL TO ITEM 626.36 REMOVE OR MODIFY CONCRETE FOUNDATION.



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Scale of Feet

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

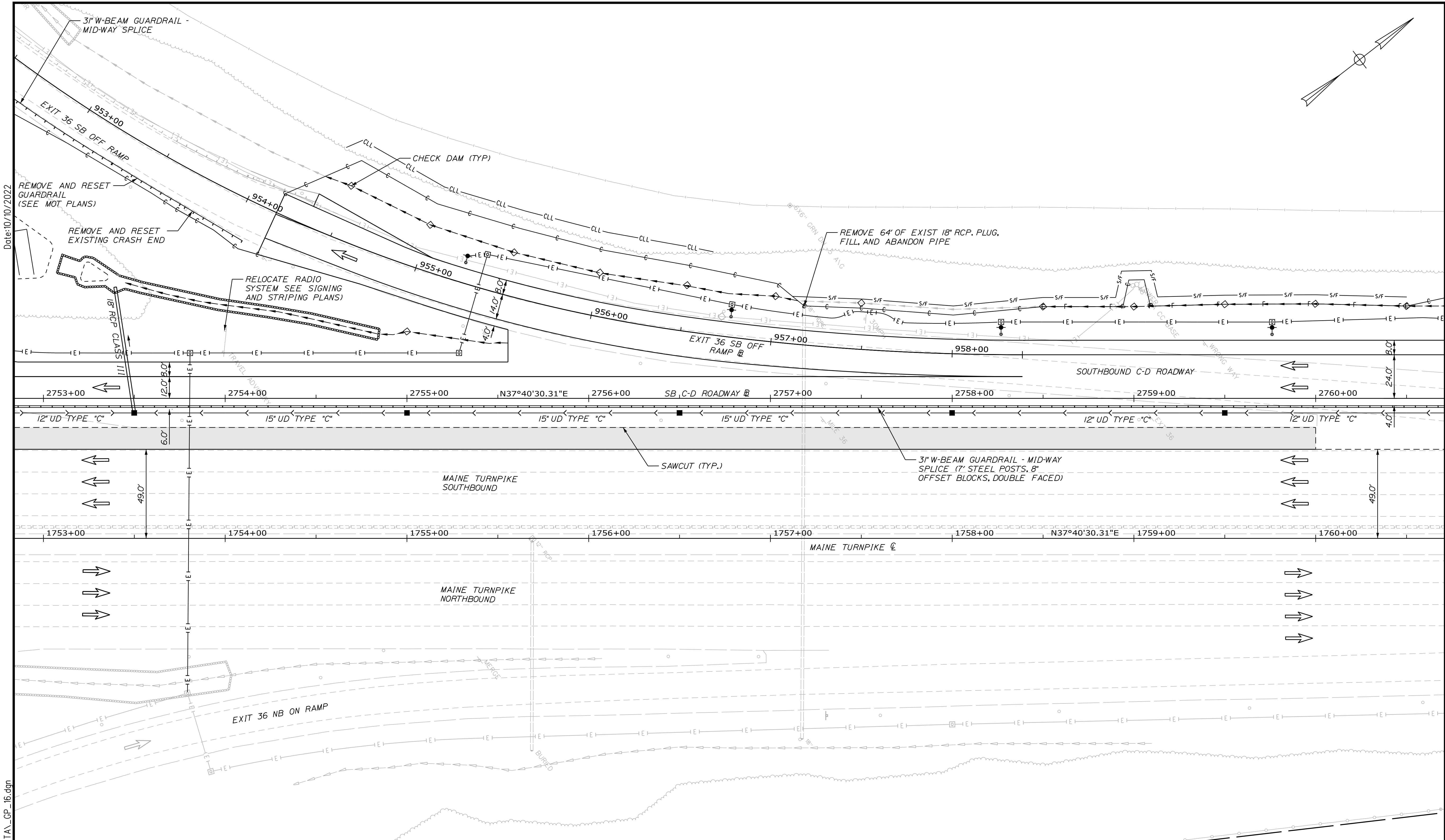
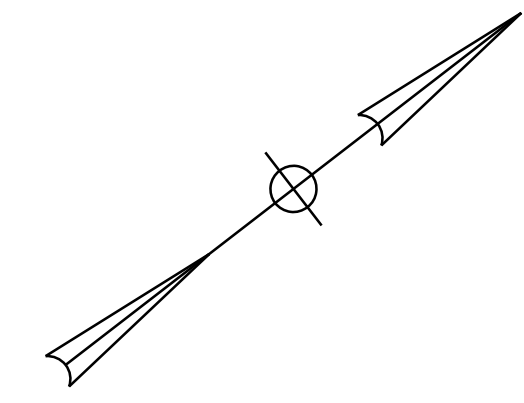
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

GENERAL PLAN 15

SHEET NUMBER: GP-16  
 124 OF 735

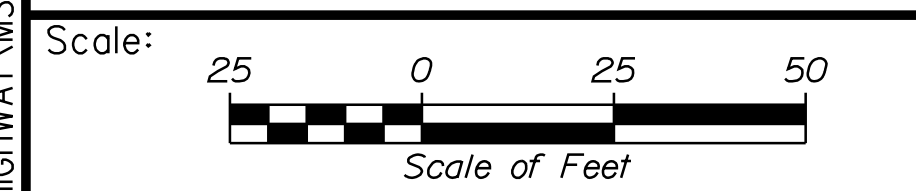
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Date: 10/10/2022

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Drawn	THG	10\22	In Charge of	LEM	10\22

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

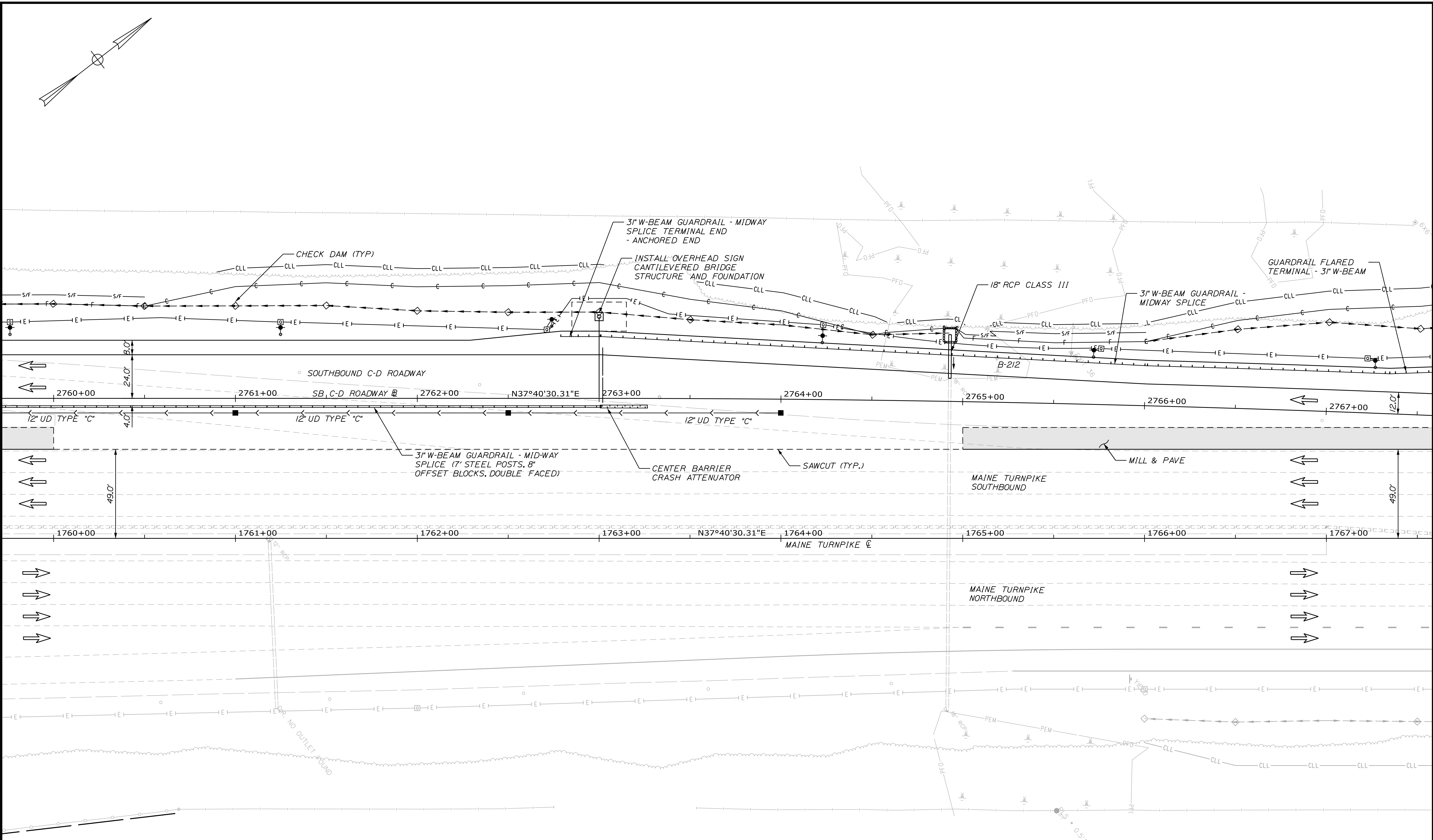
GENERAL PLAN 16

SHEET NUMBER: GP-17  
125 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

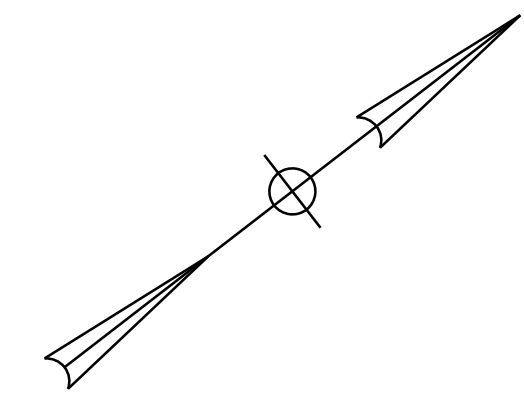
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

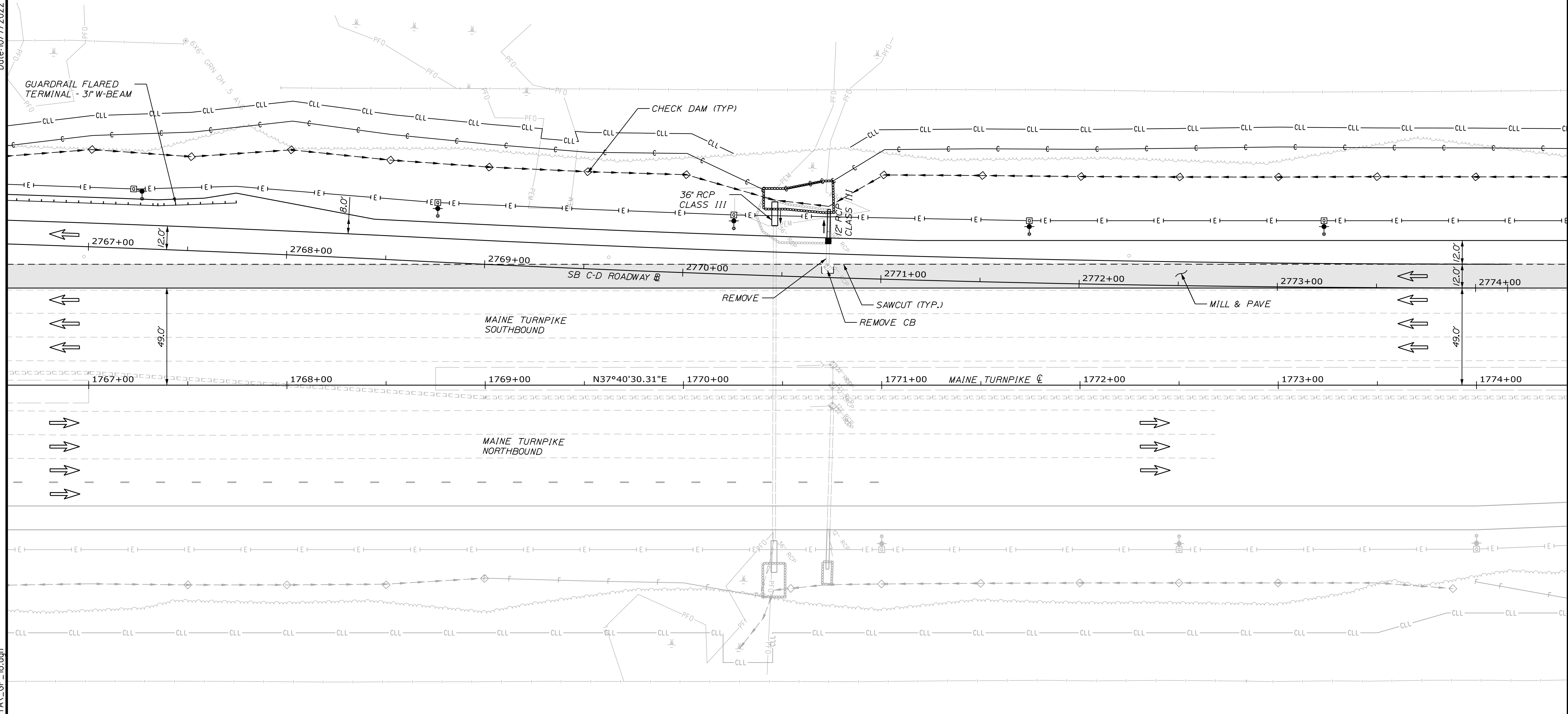
GENERAL PLAN 17

SHEET NUMBER: GP-18  
126 OF 735

CONTRACT: 2022.07




Date: 10/17/2022



Filename: ...00\HIGHWAY\MSTA\GP\_18.dgn

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Scale of Feet

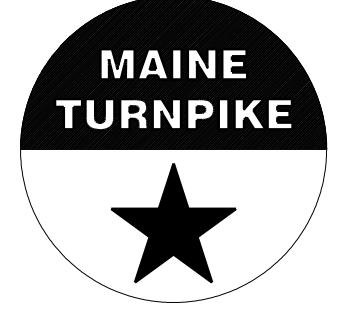
No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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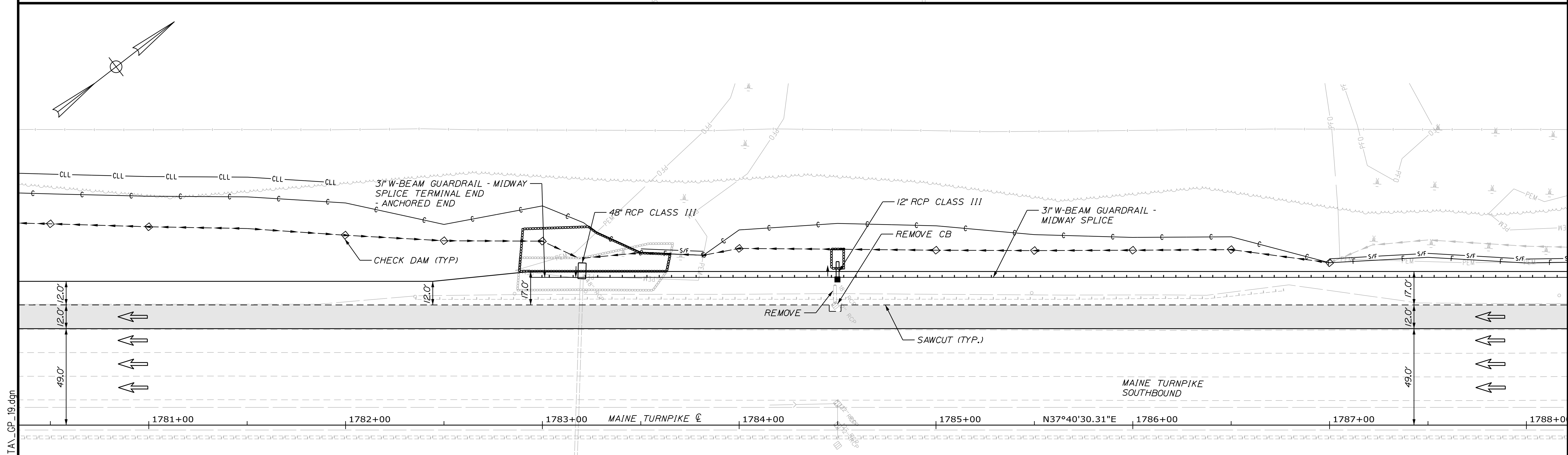
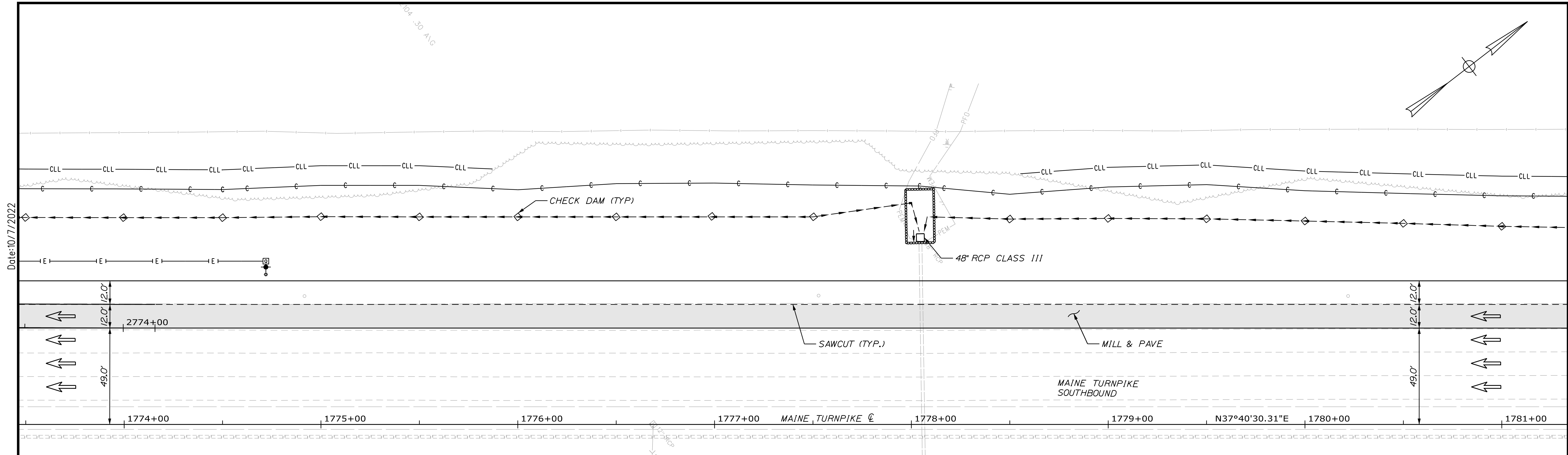
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

**GENERAL PLAN 18**

SHEET NUMBER: GP-19  
127 OF 735

CONTRACT: 2022.07



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 19

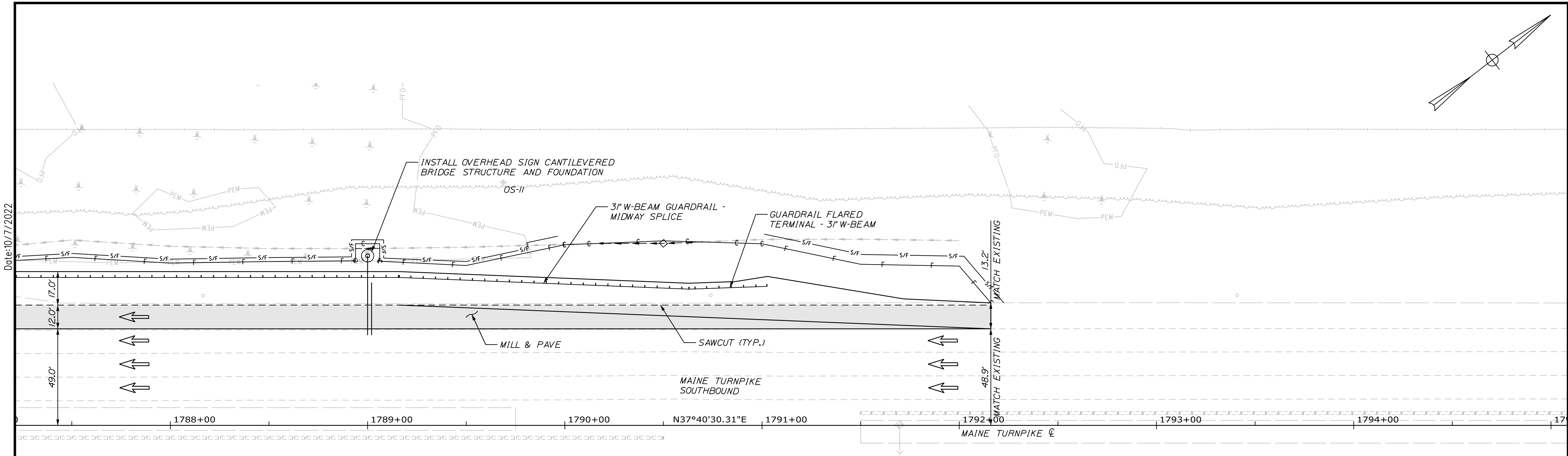
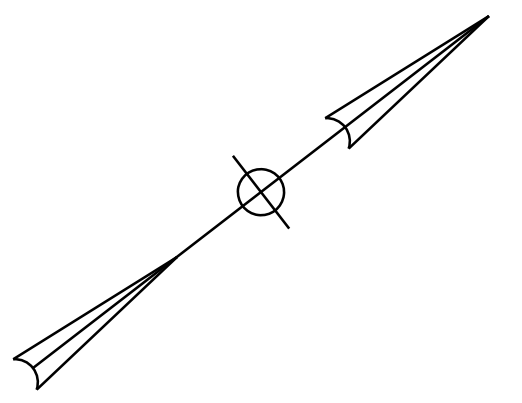
SHEET NUMBER: GP-20  
128 OF 735

CONTRACT:2022.07

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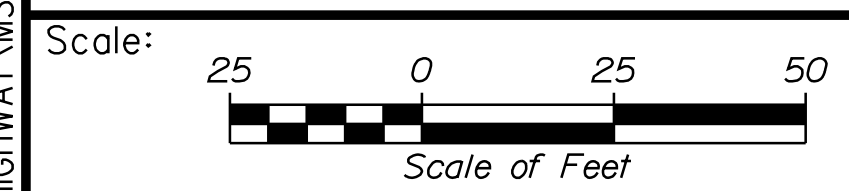
Date:10/17/2022





Date: 10/17/2022

Filename: ...00\HIGHWAY\MSTA\GP\_20.dgn



Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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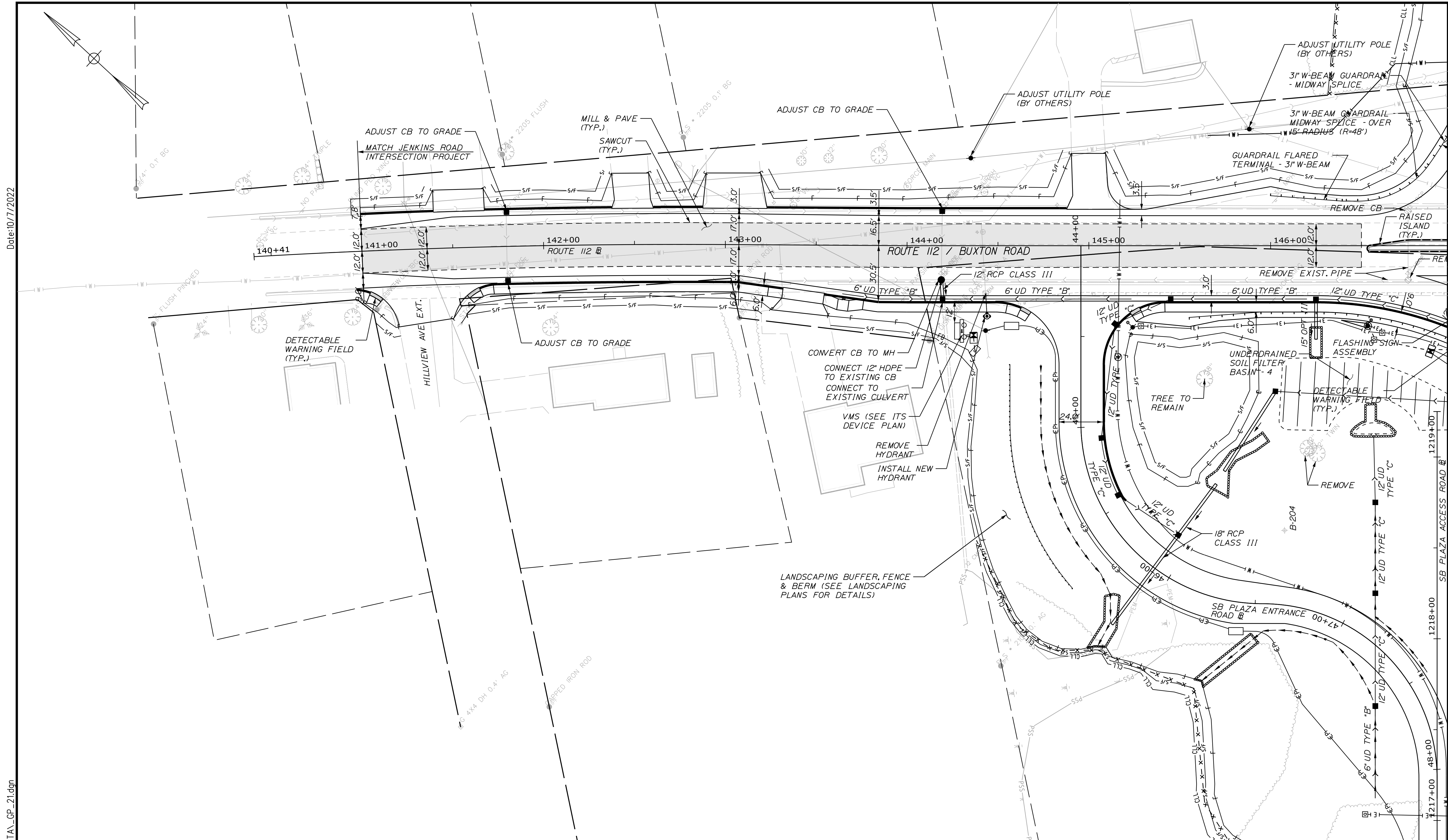
THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

GENERAL PLAN 20

SHEET NUMBER: GP-21  
 CONTRACT: 2022.07  
 129 OF 735




Date: 10/7/2022

Filename: ...00\HIGHWAY\MSTA\GP\_21.dgn

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Scale of Feet

No.	Revision	By	Date

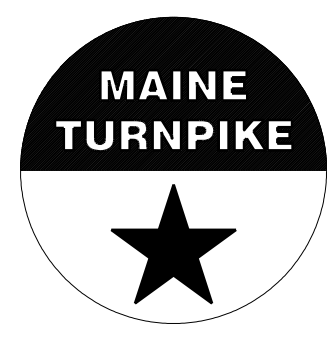
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

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MEMORIAL HIGHWAY**

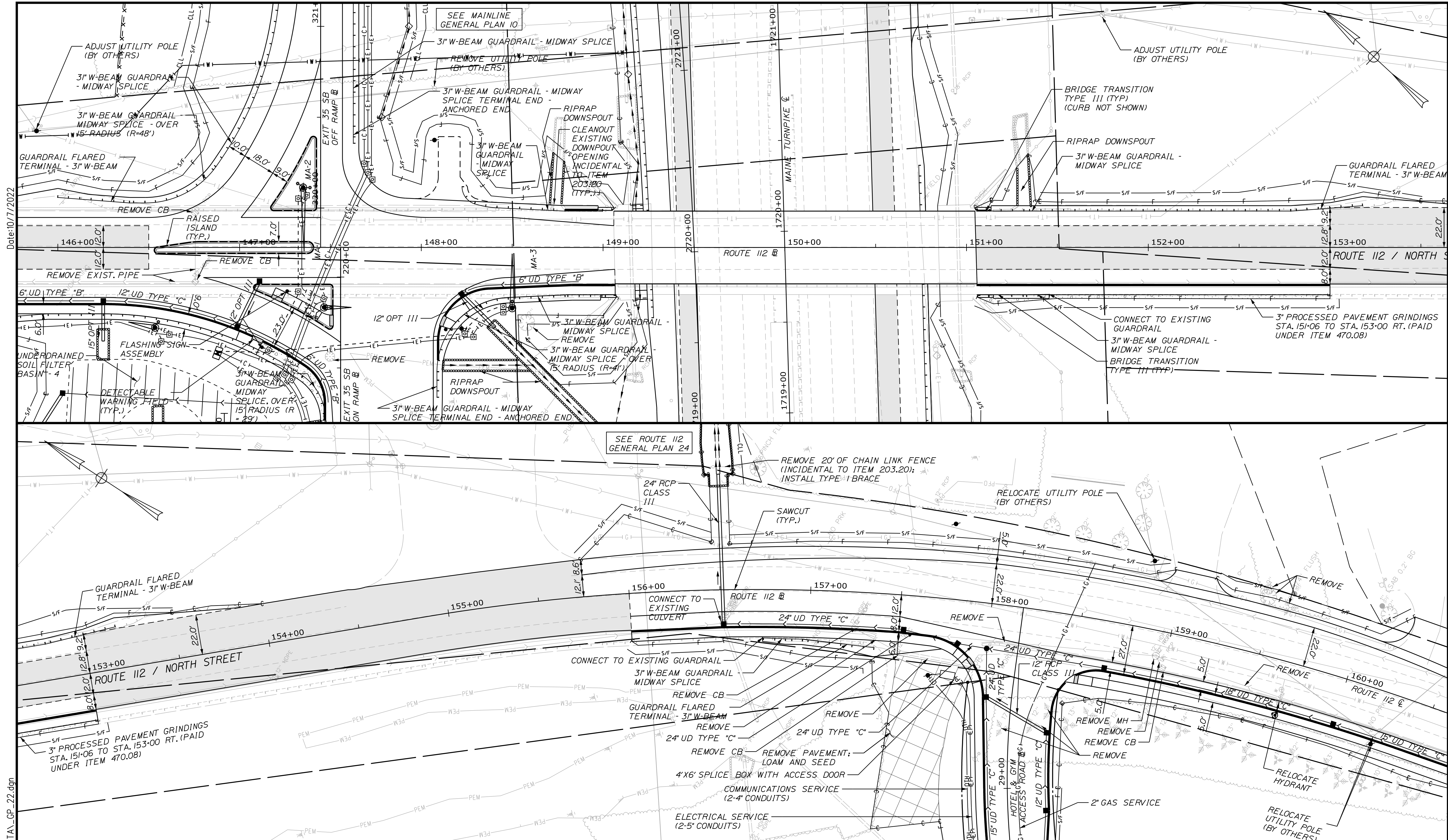
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 21

SHEET NUMBER: GP-22  
130 OF 735

CONTRACT: 2022.07



Date: 10/17/2022

Filename: ...100.HIGHWAY\MSTA\_GP\_22.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

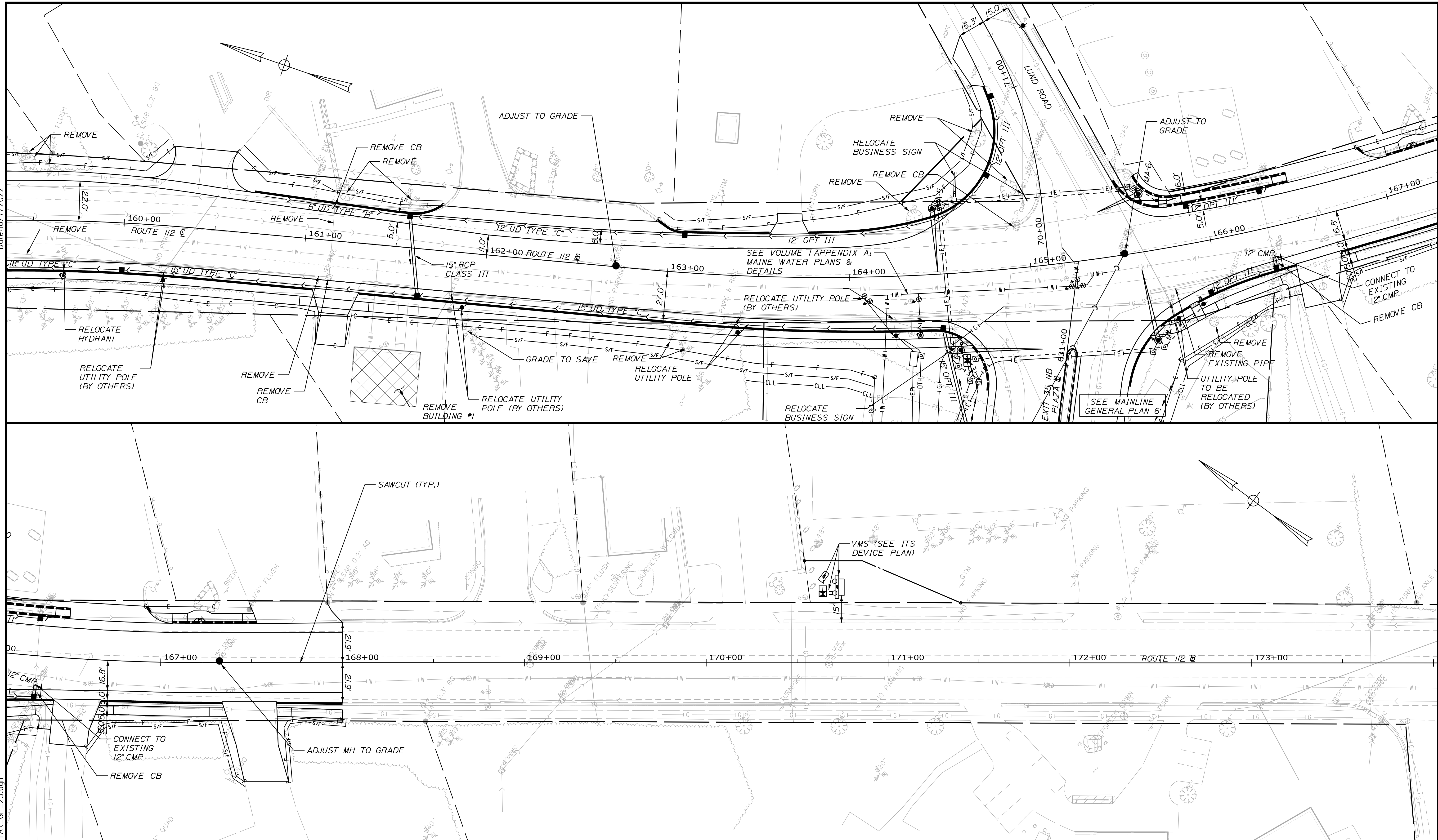
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 22

SHEET NUMBER: GP-23  
CONTRACT: 2022.07  
131 OF 735


Date: 10/7/2022

Filename: ...00.HIGHWAY\NSTA\GP\_23.dgn



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Scale of Feet

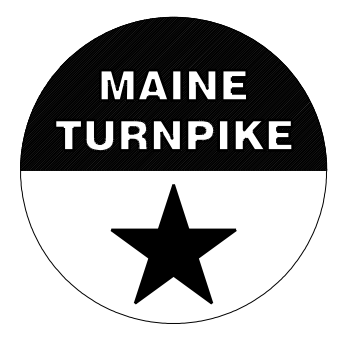
No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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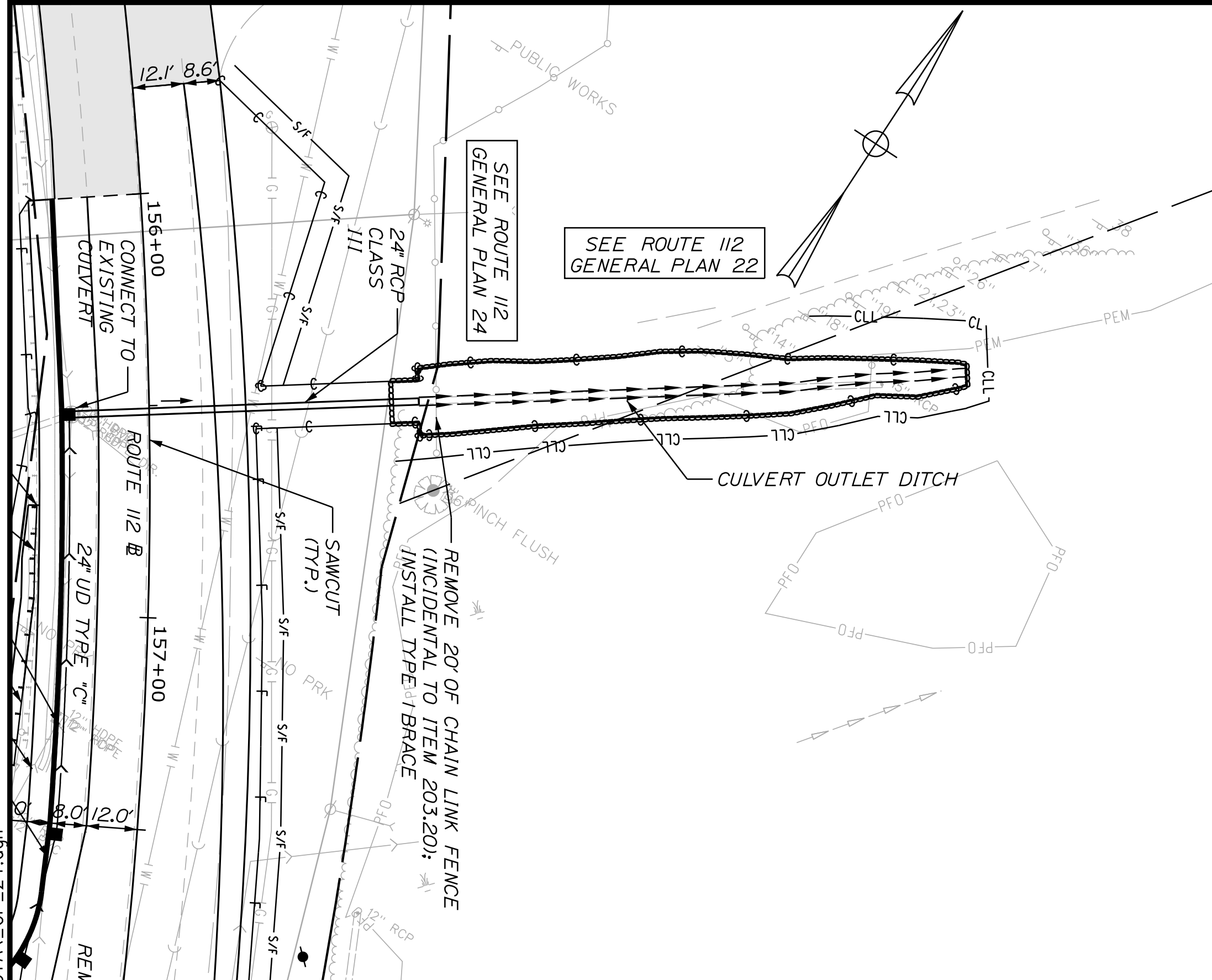
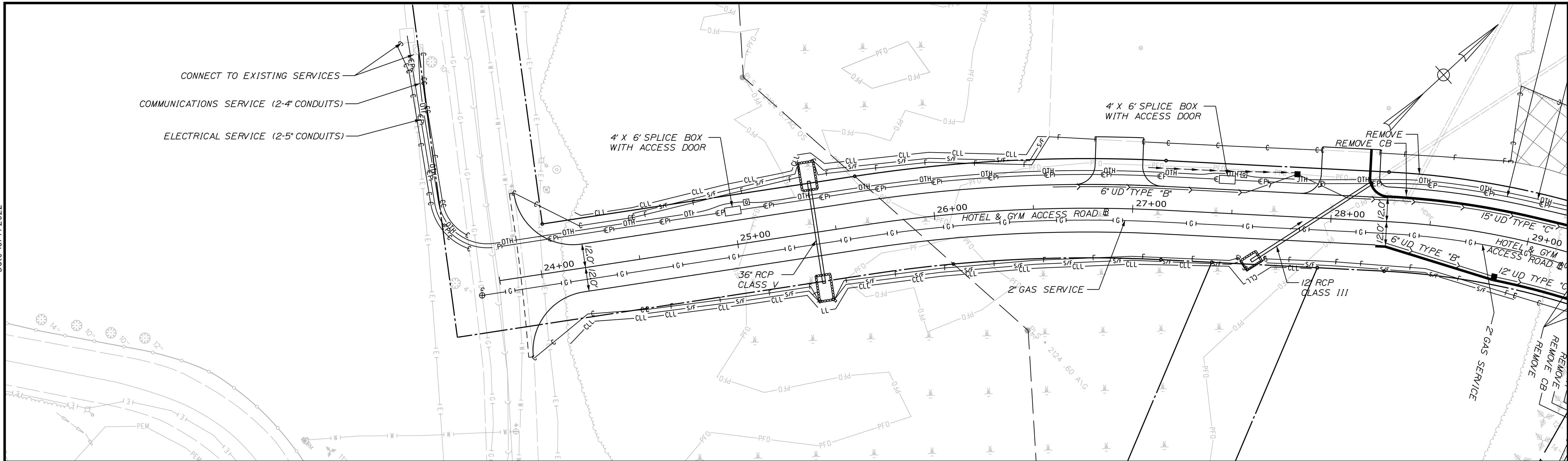
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GENERAL PLAN 23

SHEET NUMBER: GP-24  
132 OF 735

CONTRACT: 2022.07

Date: 10/17/2022



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

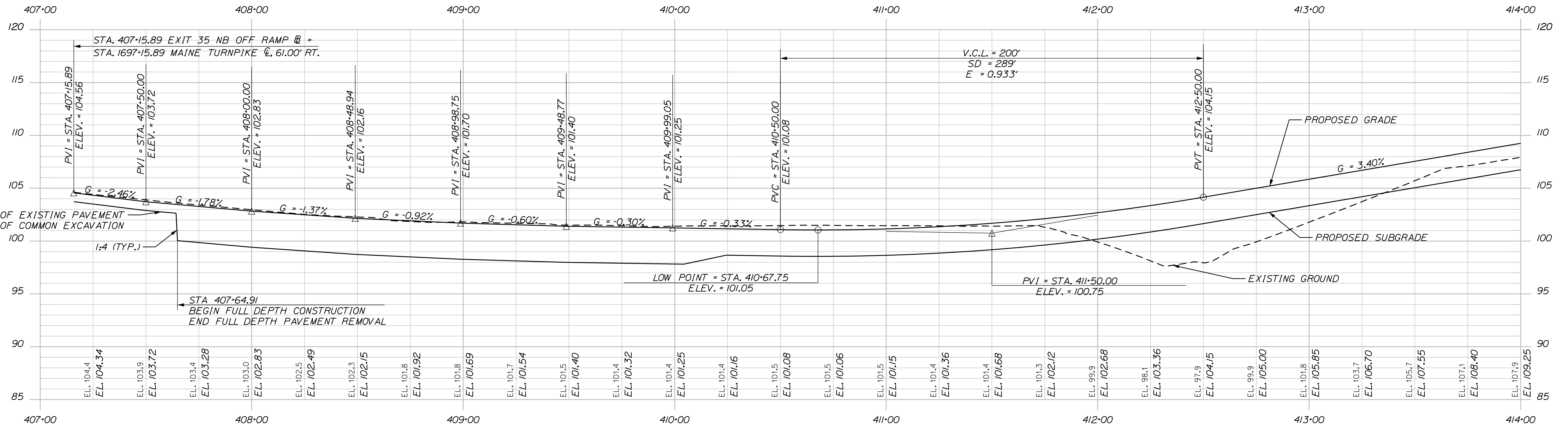
GENERAL PLAN 24

SHEET NUMBER: GP-25  
133 OF 735

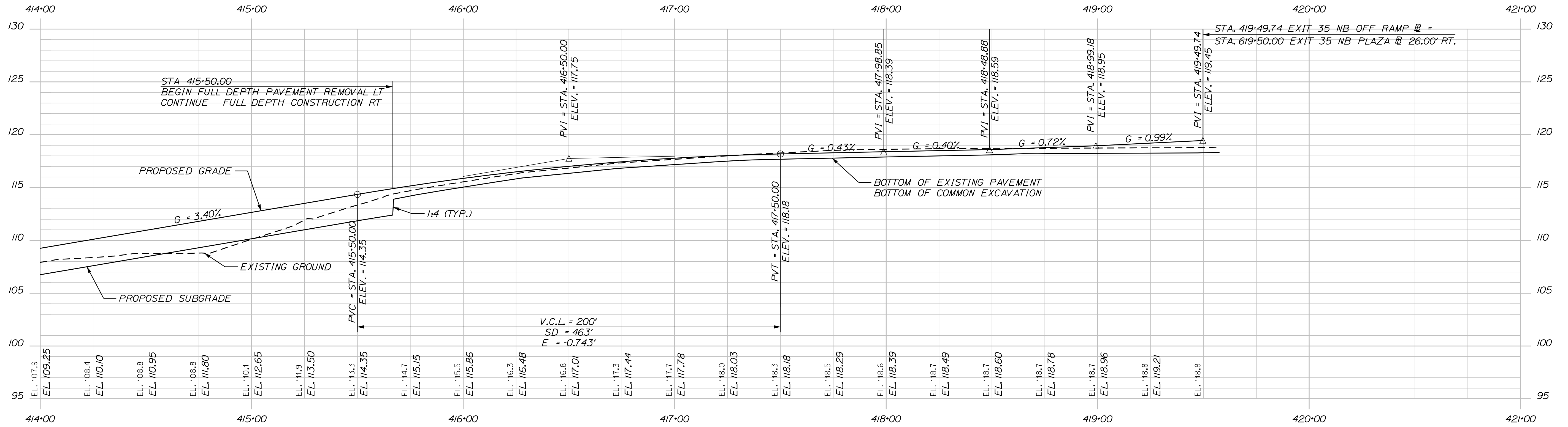
CONTRACT: 2022.07

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Date: 10/17/2022



EXIT 35 NB OFF RAMP PROFILE



EXIT 35 NB OFF RAMP PROFILE

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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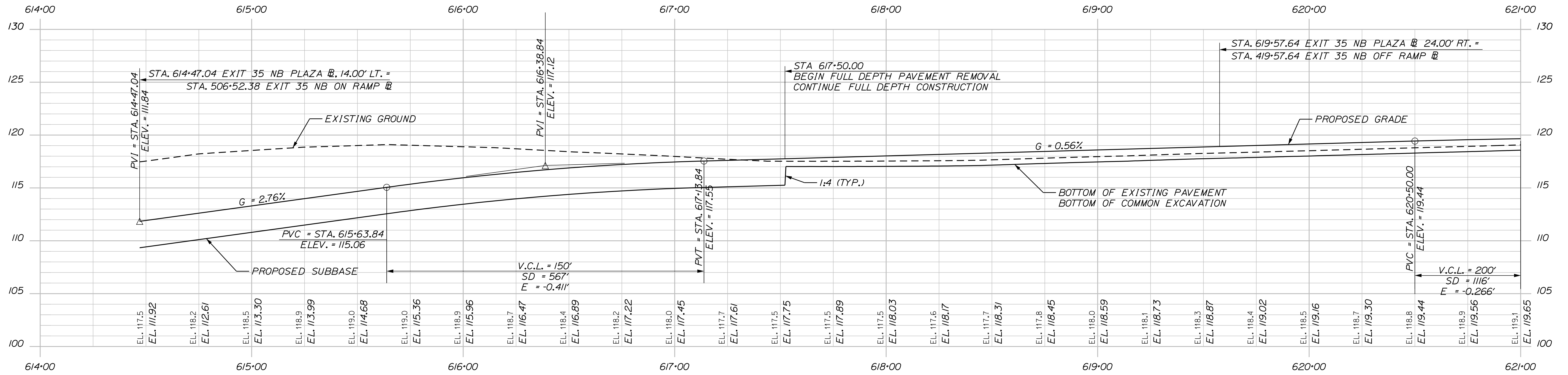
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 35 NB OFF RAMP  
PROFILE 1

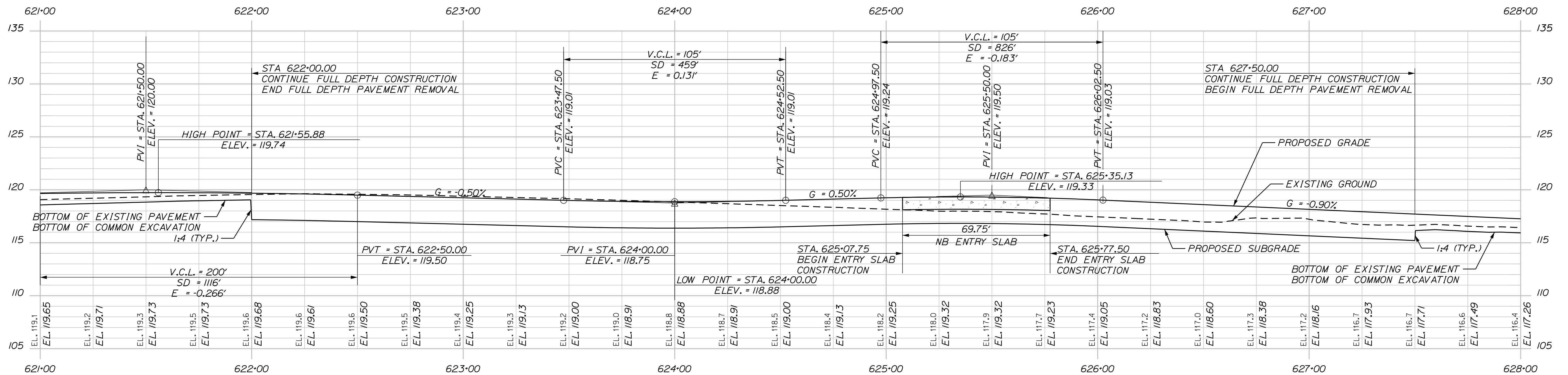
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CONTRACT: 2022.07  
134 OF 735

Filename: ...Profile-Exit35-NB-Off.dgn

Date: 10/17/2022



EXIT 35 NB PLAZA PROFILE



EXIT 35 NB PLAZA PROFILE

Filename: ...Profile-Exit 35-NB-Combined-1.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

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	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

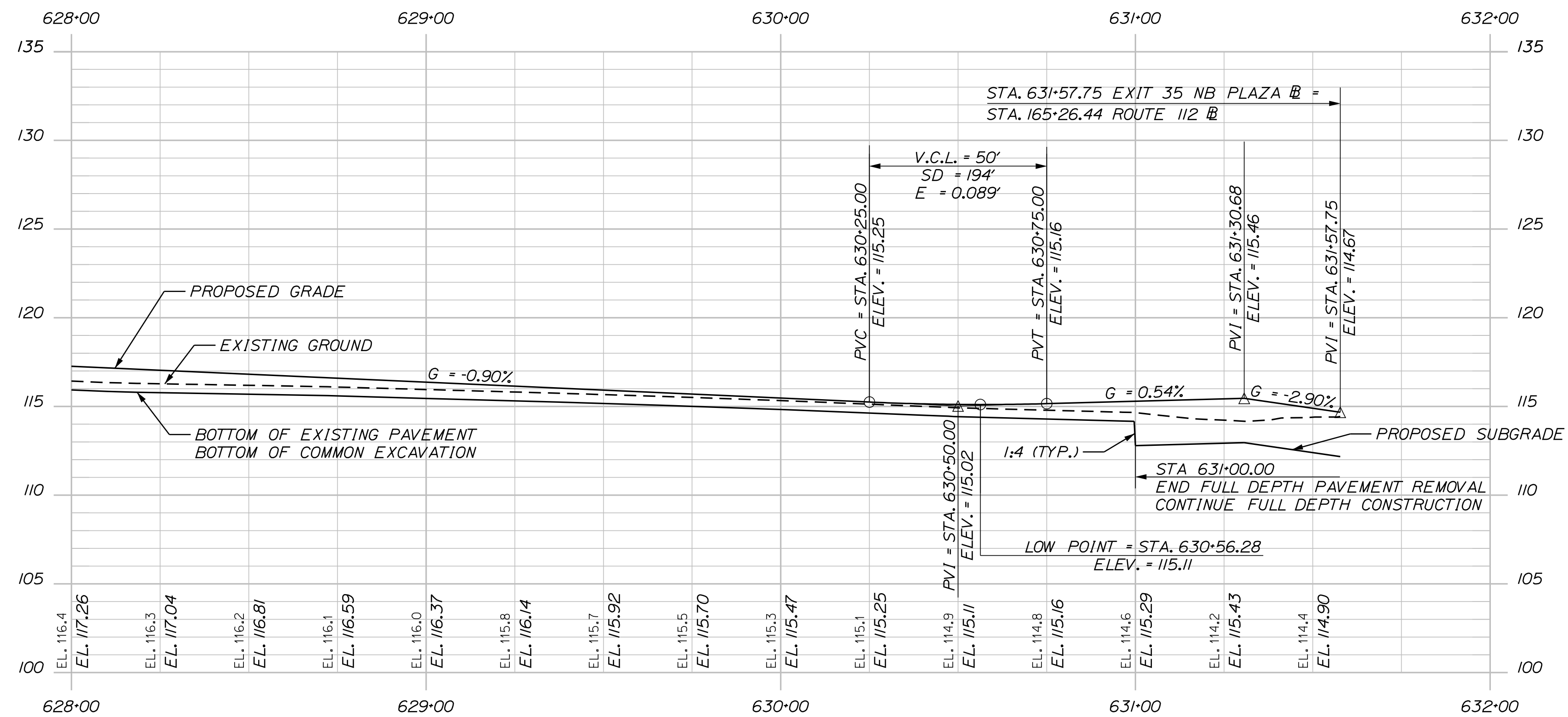
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 35 NB PLAZA  
PROFILE 2

SHEET NUMBER: PR-02  
135 OF 735

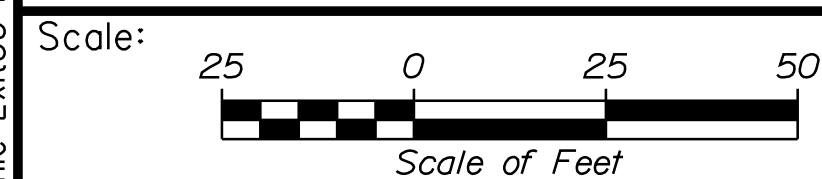
CONTRACT: 2022.07

Date: 10/17/2022

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EXIT 35 NB PLAZA PROFILE



No.	Revision	By	Date

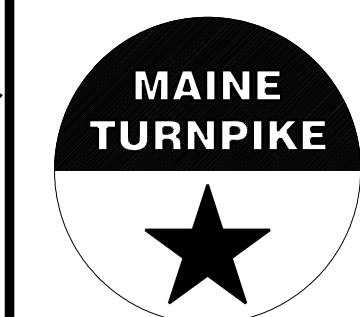
Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 EXIT 35 NB PLAZA  
 PROFILE 3

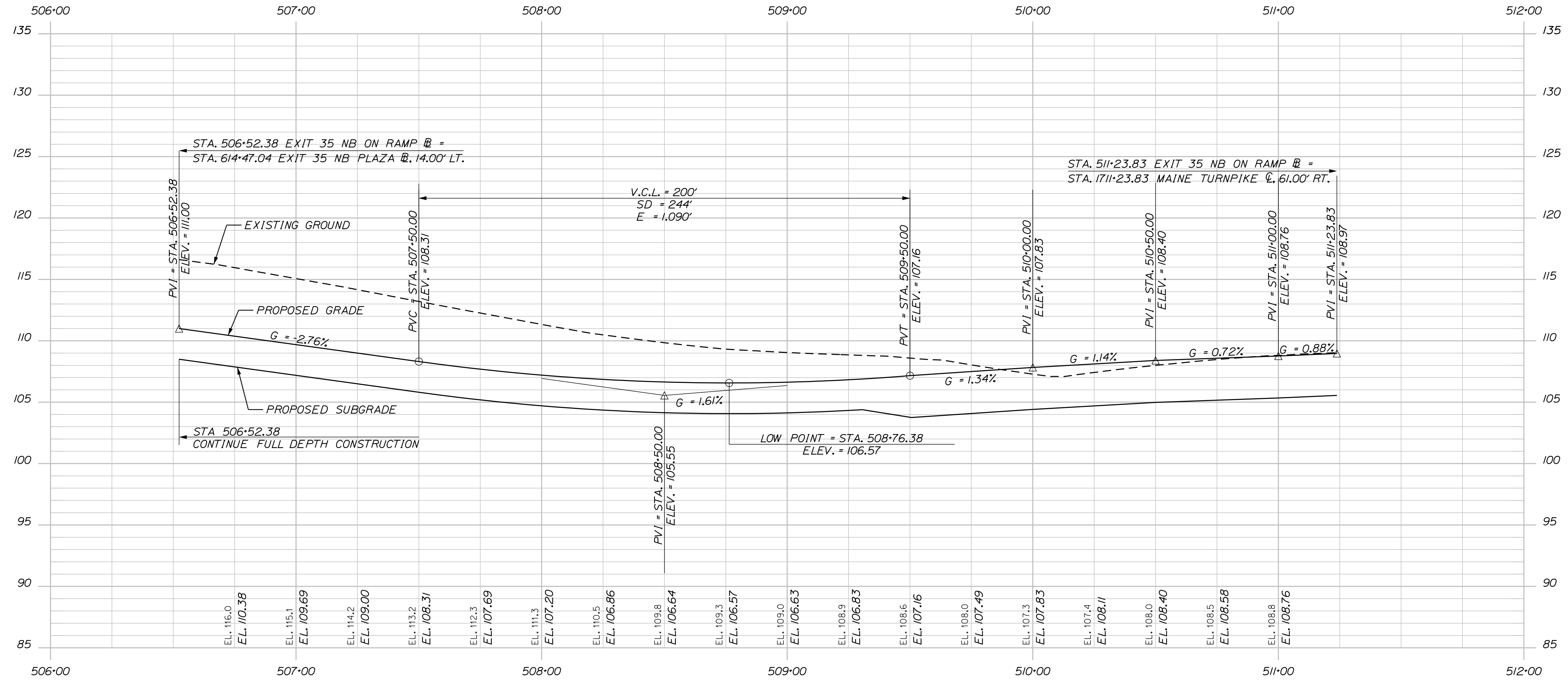
CONTRACT: 2022.07

SHEET NUMBER: PR-03

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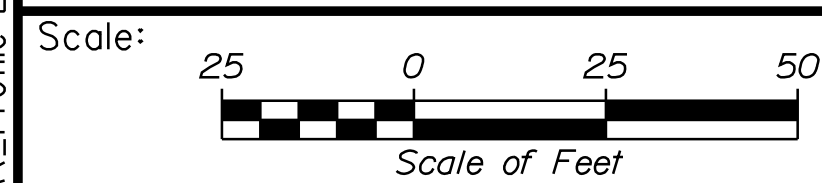


Date: 10/17/2022



EXIT 35 NB ON RAMP PROFILE

Filename: ...MSTA\_Profile-Exit35-NB-On.dgn

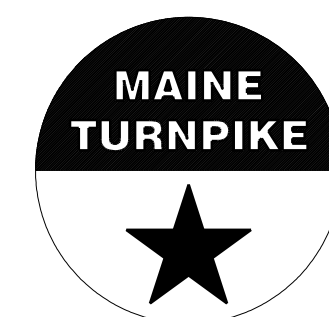


No.	Revision	By	Date

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INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 EXIT 35 NB ON RAMP  
 PROFILE 4

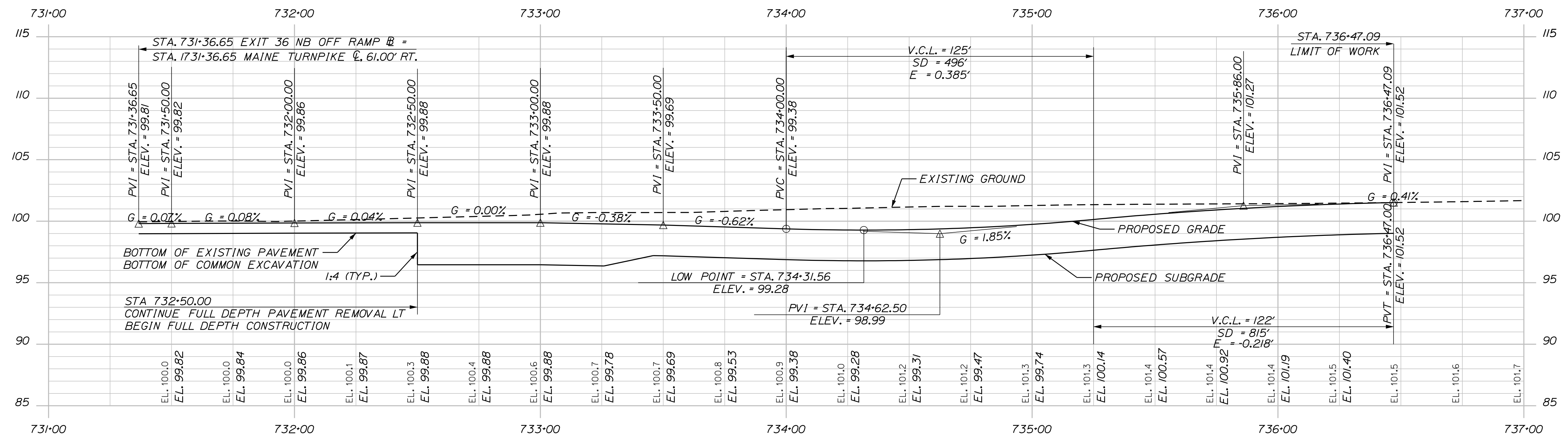
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

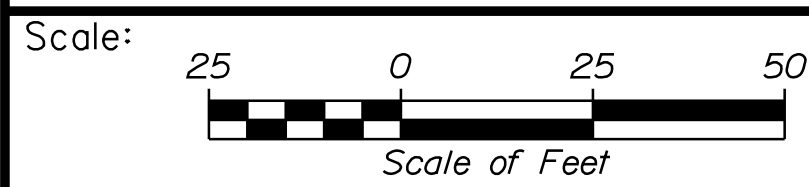
CONTRACT: 2022.07

SHEET NUMBER: PR-04

137 OF 735



EXIT 36 NB OFF RAMP PROFILE



No.	Revision	By	Date

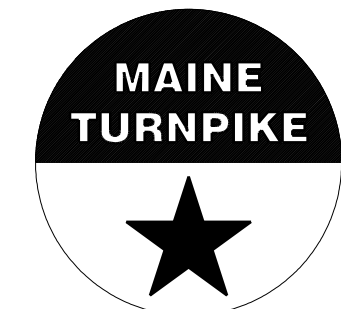
Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

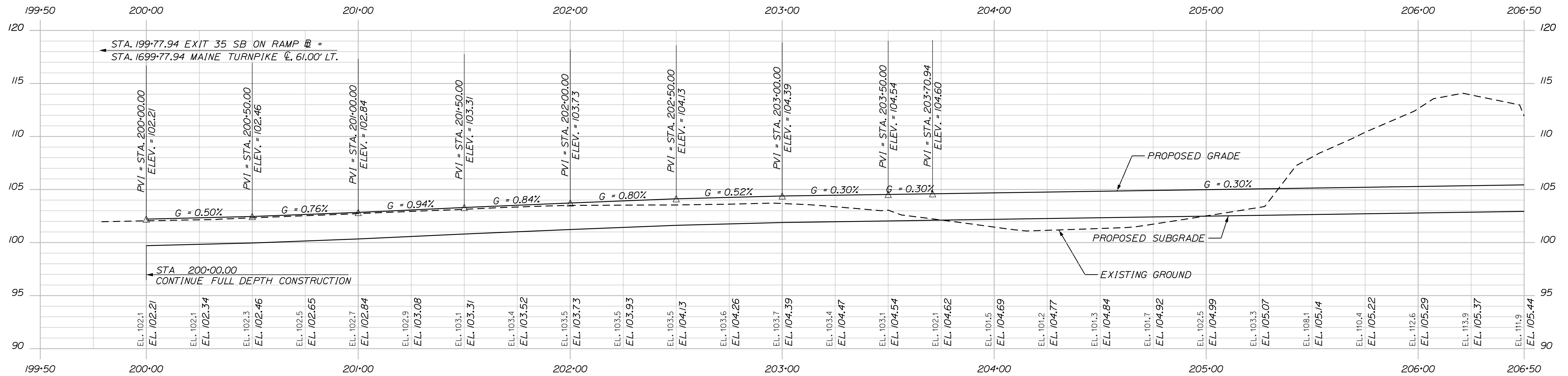
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 36 NB OFF RAMP  
PROFILE 5

CONTRACT: 2022.07

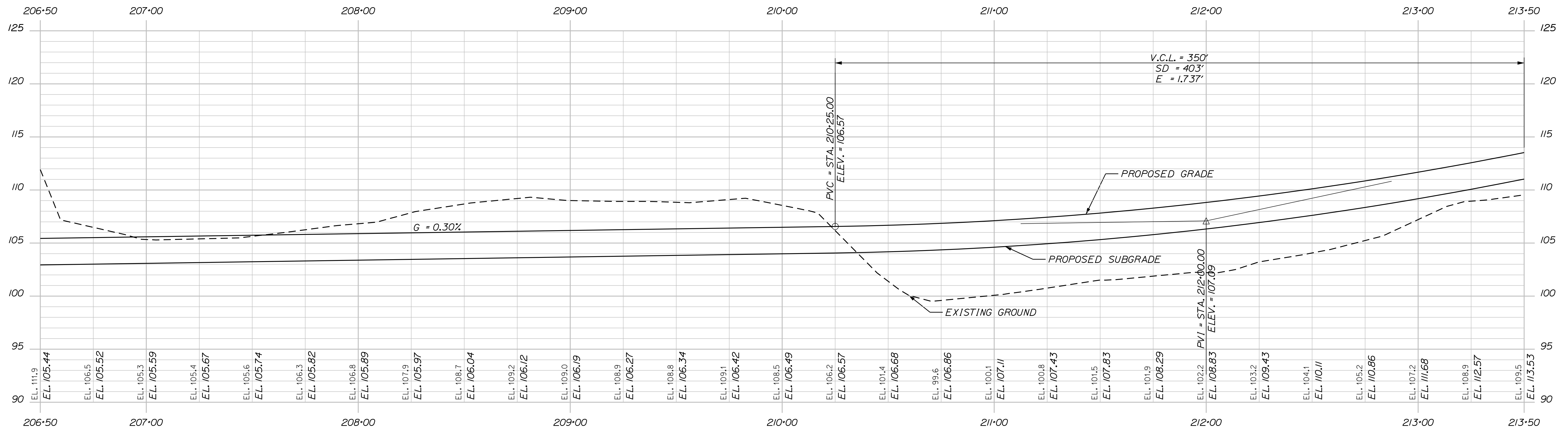
SHEET NUMBER: PR-05

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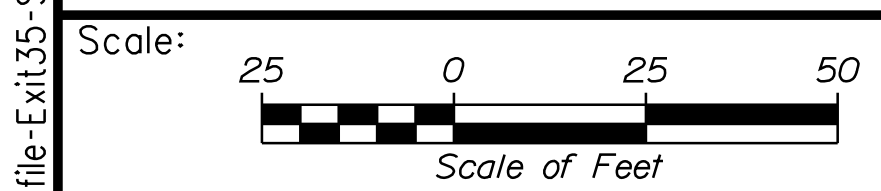
Date: 10/17/2022



EXIT 35 SB ON RAMP PROFILE



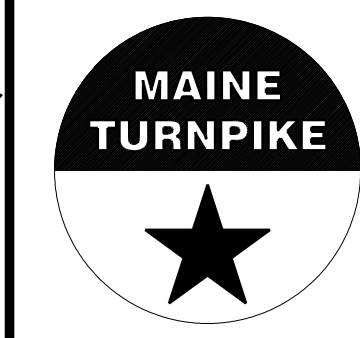
EXIT 35 SB ON RAMP PROFILE



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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 35 SB ON RAMP  
PROFILE 6

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	By	Date	Checked	By	Date
Drawn	THG	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

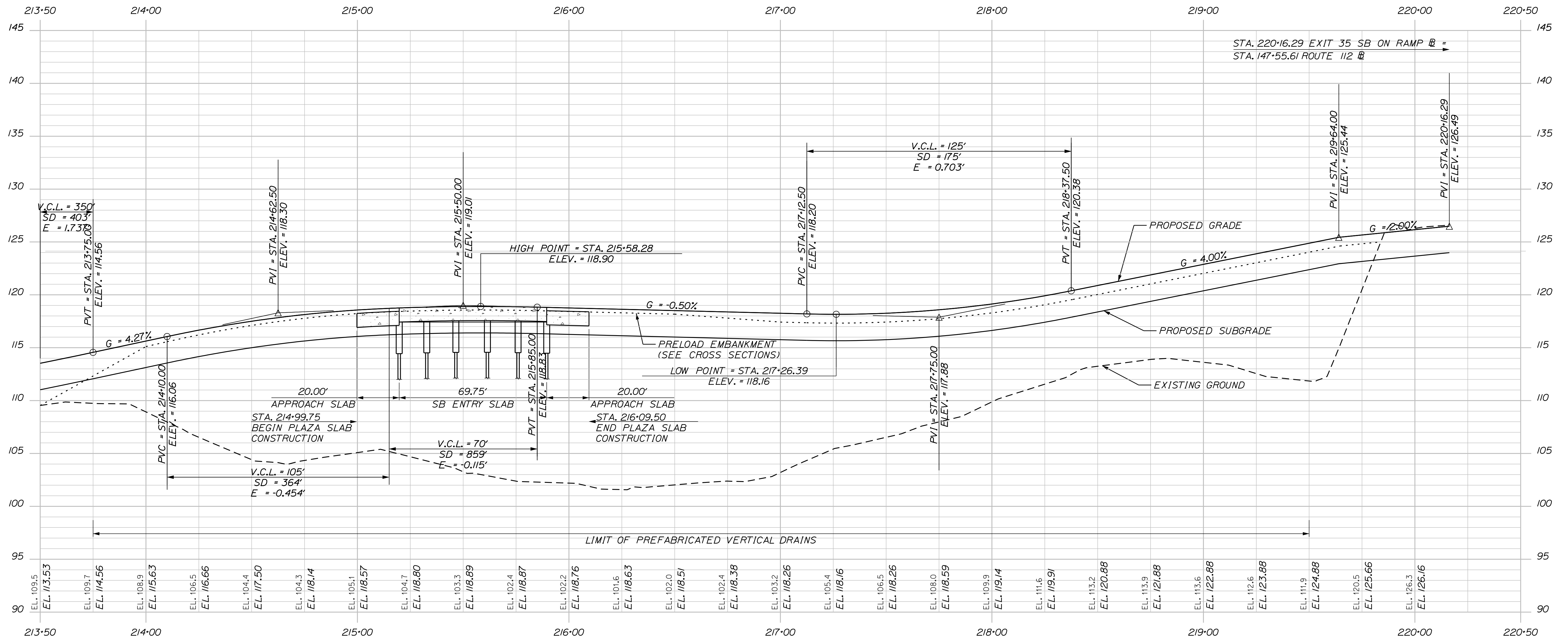
CONTRACT: 2022.07

SHEET NUMBER: PR-06

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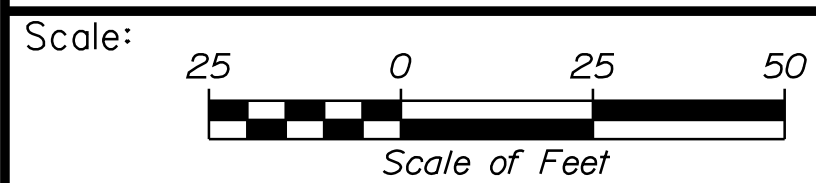
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Date: 10/17/2022



EXIT 35 SB ON RAMP PROFILE

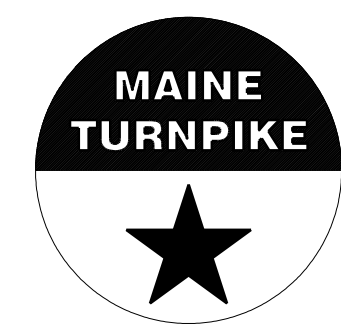
Filename: ...Profile-Exit35-SB-On-2.dgn



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THE GOLD STAR  
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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 35 SB ON RAMP  
PROFILE 7

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
Designed	JRH	10\22	Checked
Drawn	THG	10\22	In Charge of

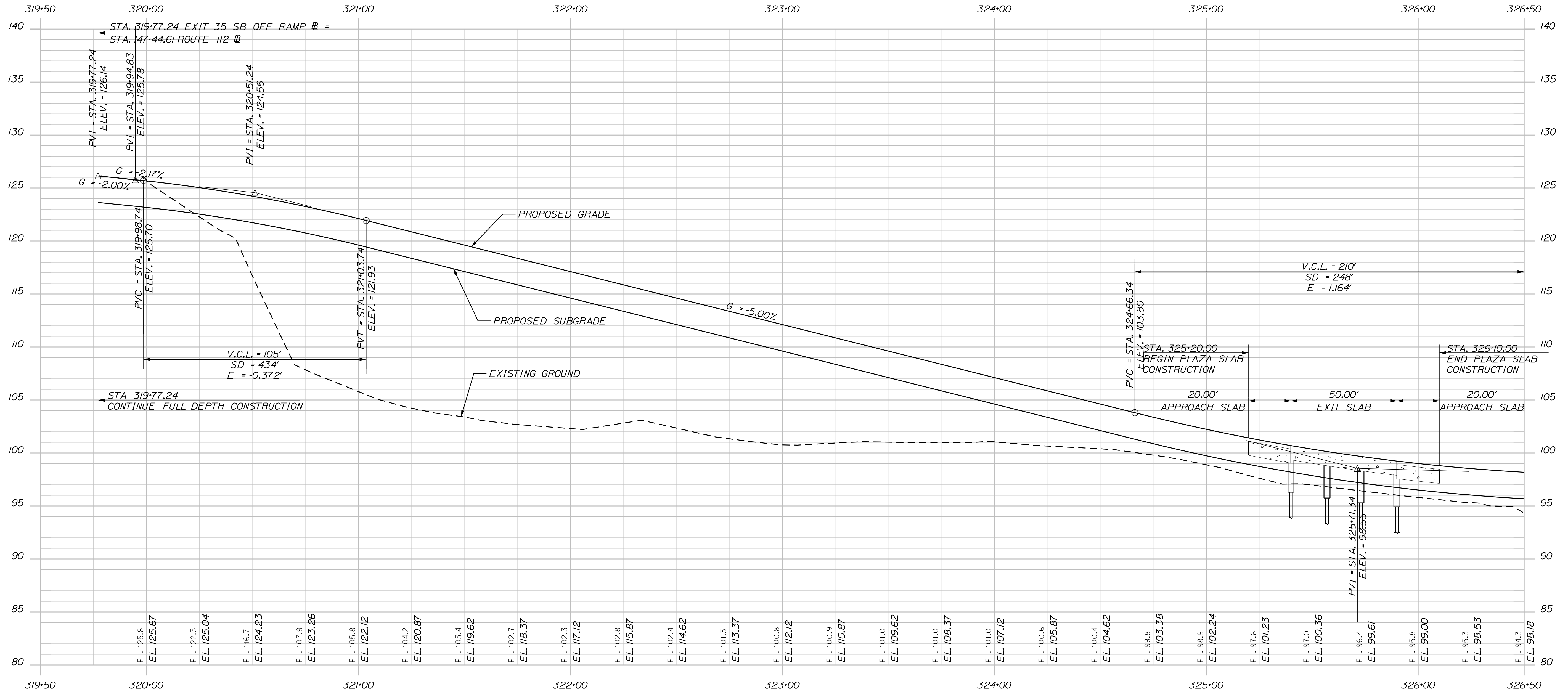
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: PR-07

140 OF 735

Date: 10/17/2022



EXIT 35 SB OFF RAMP PROFILE

Filename: ...Profile-Exit35-SB-Off-1.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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THE GOLD STAR MEMORIAL HIGHWAY

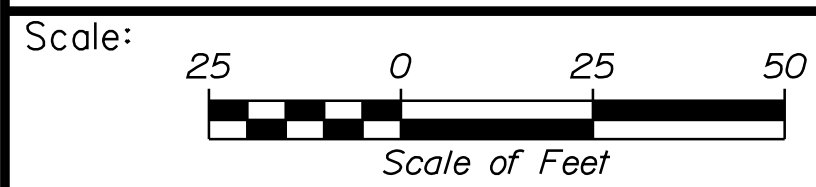
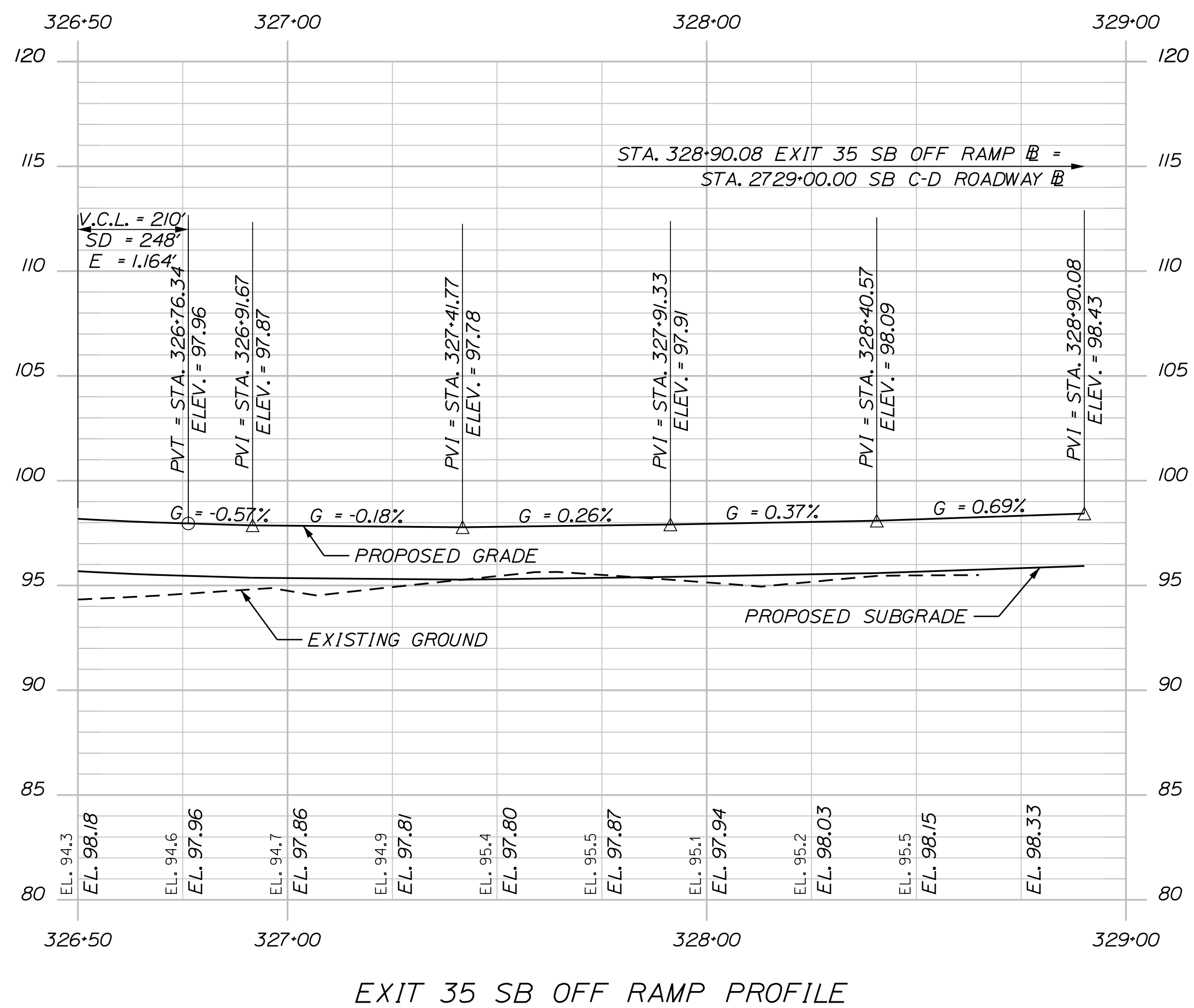
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 35 SB OFF RAMP  
PROFILE 8

SHEET NUMBER: PR-08  
CONTRACT: 2022.07  
141 OF 735

Date: 10/17/2022

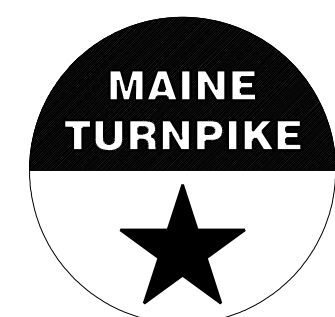
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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 35 SB OFF RAMP  
PROFILE 9

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

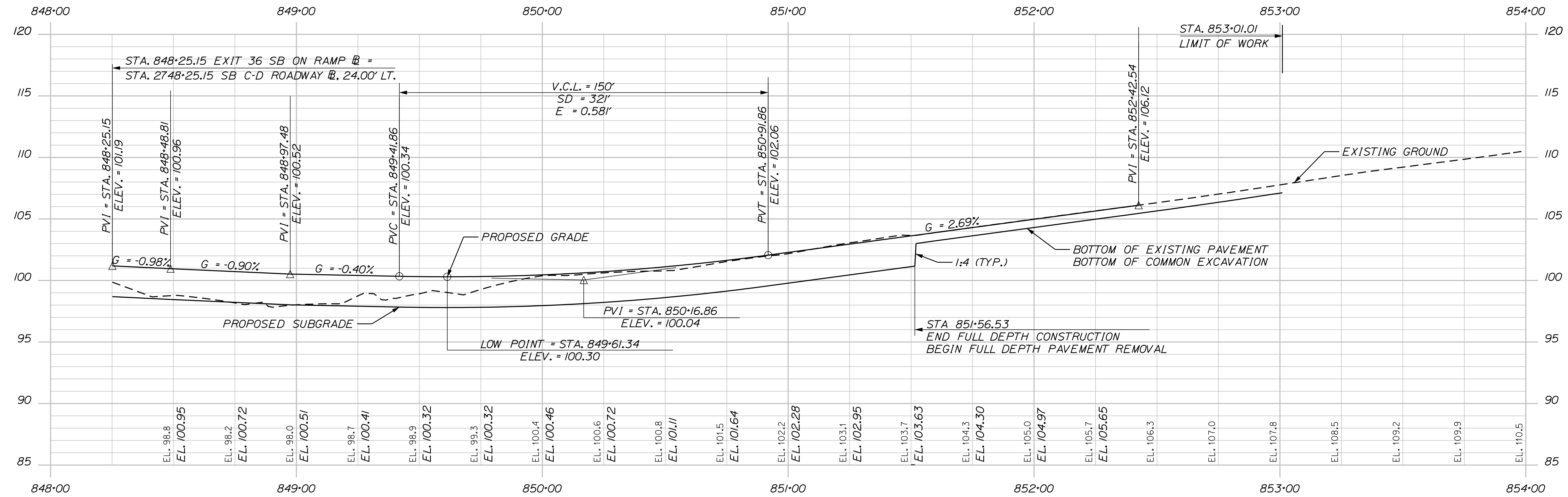
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

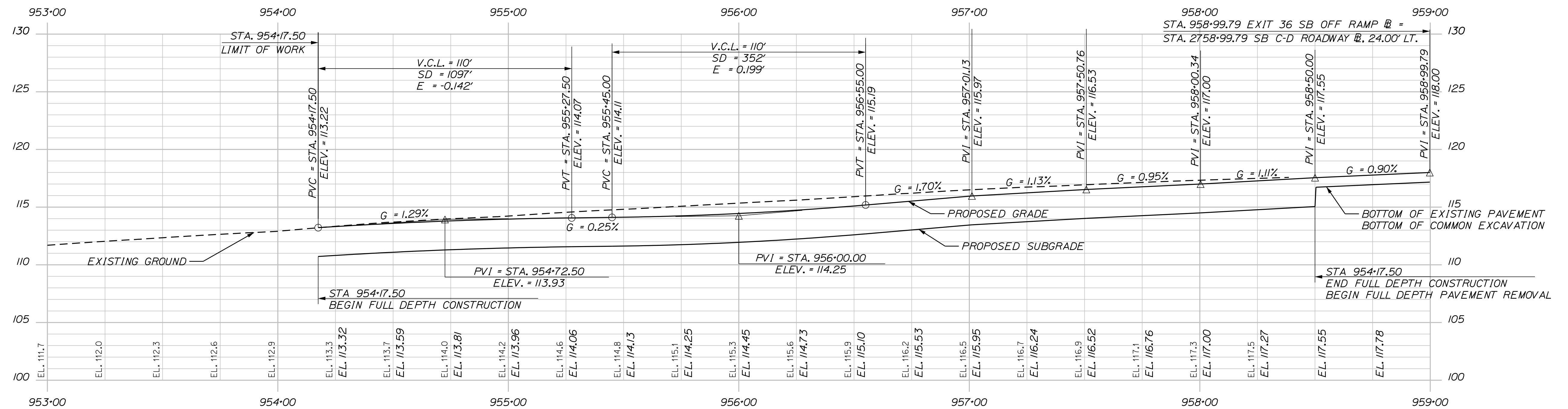
SHEET NUMBER: PR-09

142 OF 735

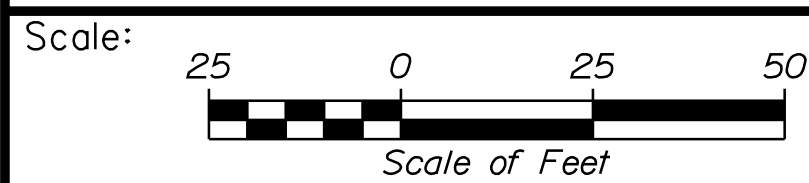
Date: 10/17/2022



EXIT 36 SB ON RAMP PROFILE



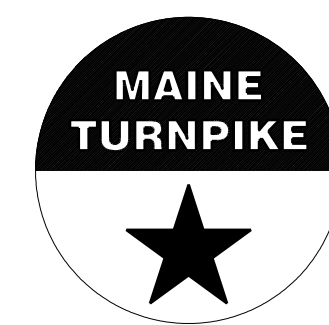
EXIT 36 SB OFF RAMP PROFILE



Designed by:



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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 36 SB ON & OFF RAMPS  
PROFILE 10

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
Designed	JRH	10\22	Checked
Drawn	THG	10\22	In Charge of
			PLP
			LEM

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

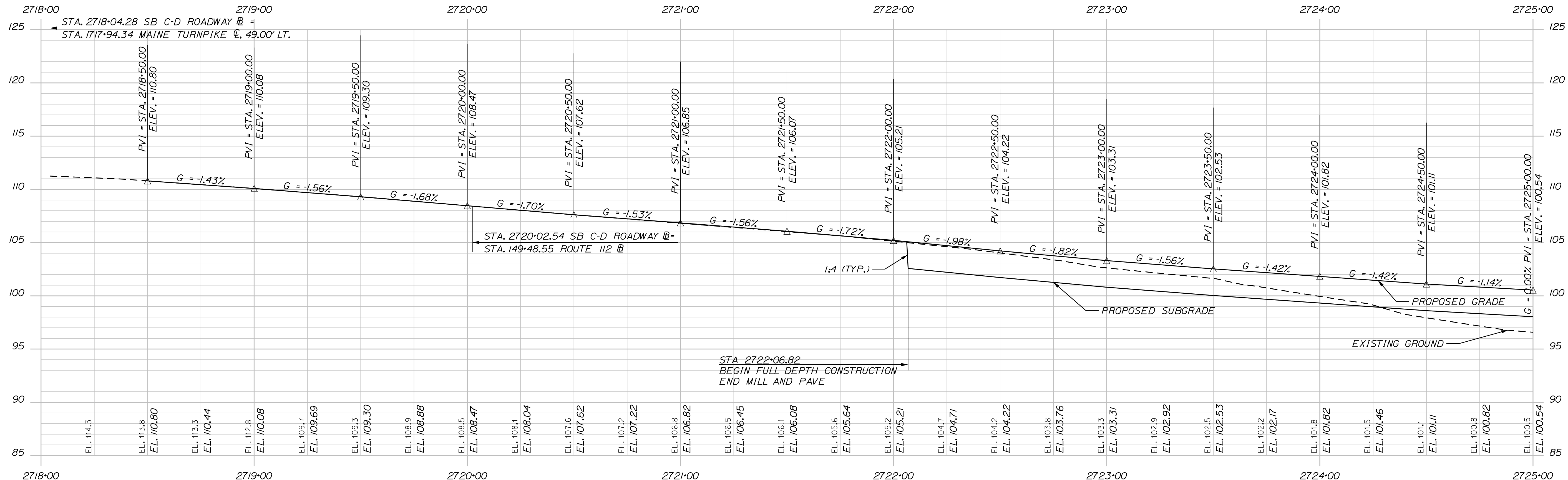
CONTRACT: 2022.07

SHEET NUMBER: PR-10

14.3 OF 7.35

Filename: ...Profile-Exit 36-SB-Ramps.dgn

Date: 10/17/2022



SB COLLECTOR - DISTRIBUTOR ROADWAY PROFILE

Filename: ...MSTA\_Profile-SB-CD-1.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

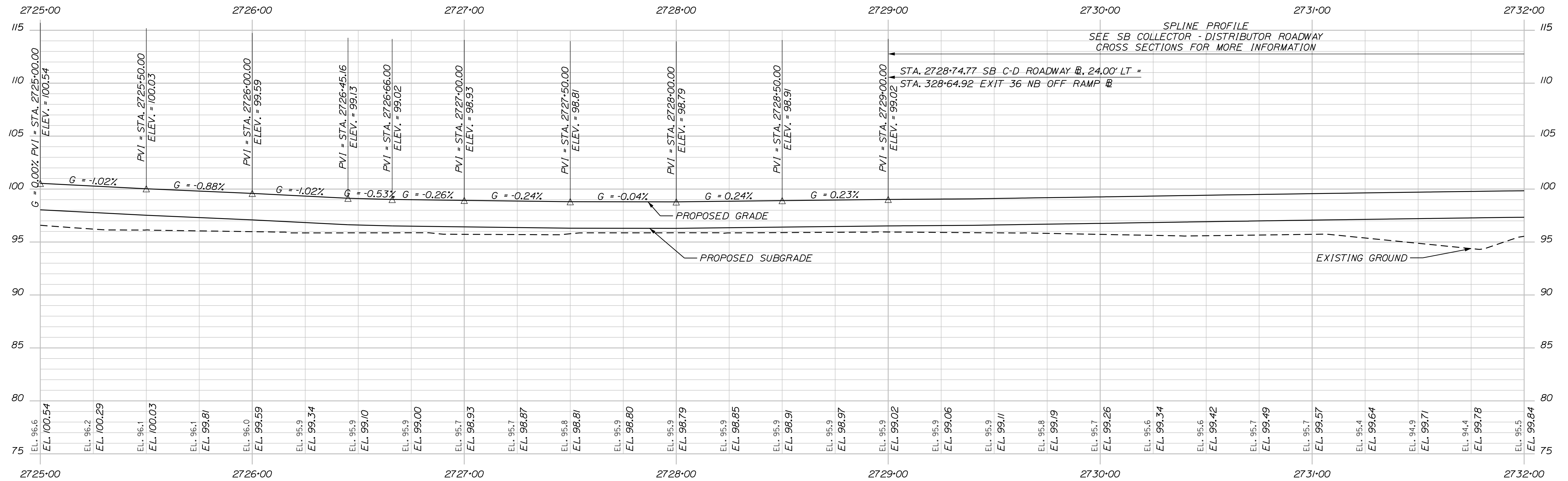
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SB COLLECTOR - DISTRIBUTOR ROADWAY  
 PROFILE 11

SHEET NUMBER: PR-11  
 CONTRACT: 2022.07  
 144 OF 735

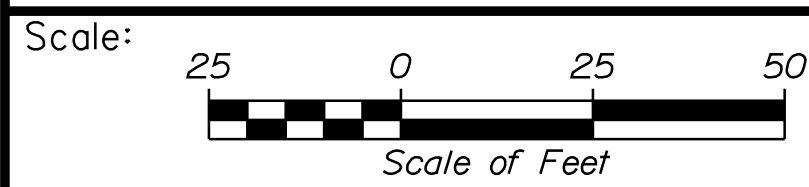


Date: 10/17/2022



SB COLLECTOR - DISTRIBUTOR ROADWAY PROFILE

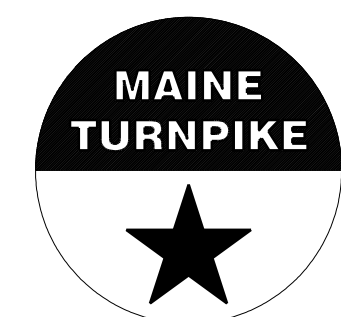
Filename: ...MSTA\_Profile-SB-CD-2.dgn



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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
SB COLLECTOR - DISTRIBUTOR ROADWAY  
PROFILE 12

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

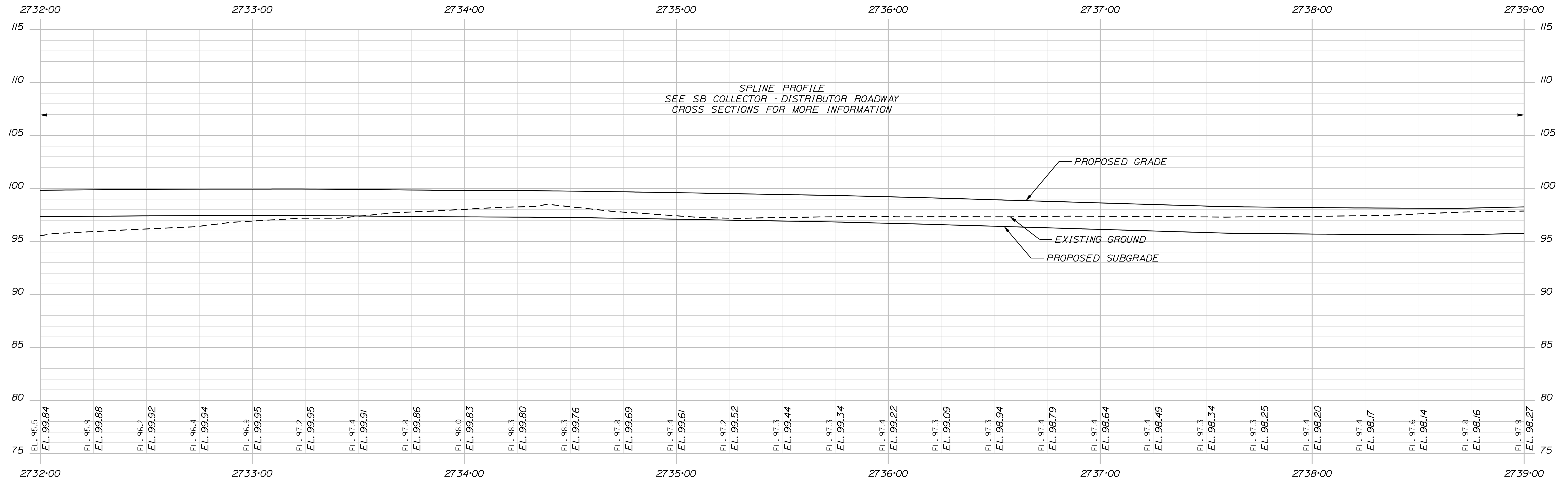
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: PR-12

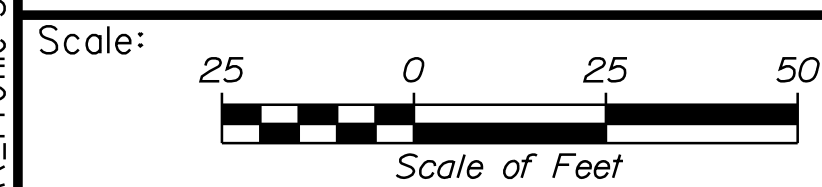
145 OF 735

Date: 10/17/2022



SB COLLECTOR - DISTRIBUTOR ROADWAY PROFILE

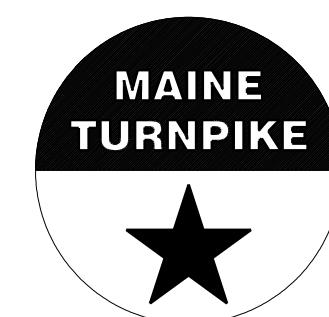
Filename: ...MSTA\_Profile-SB-CD-3.dgn



Designed by:



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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
SB COLLECTOR - DISTRIBUTOR ROADWAY  
PROFILE 13

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

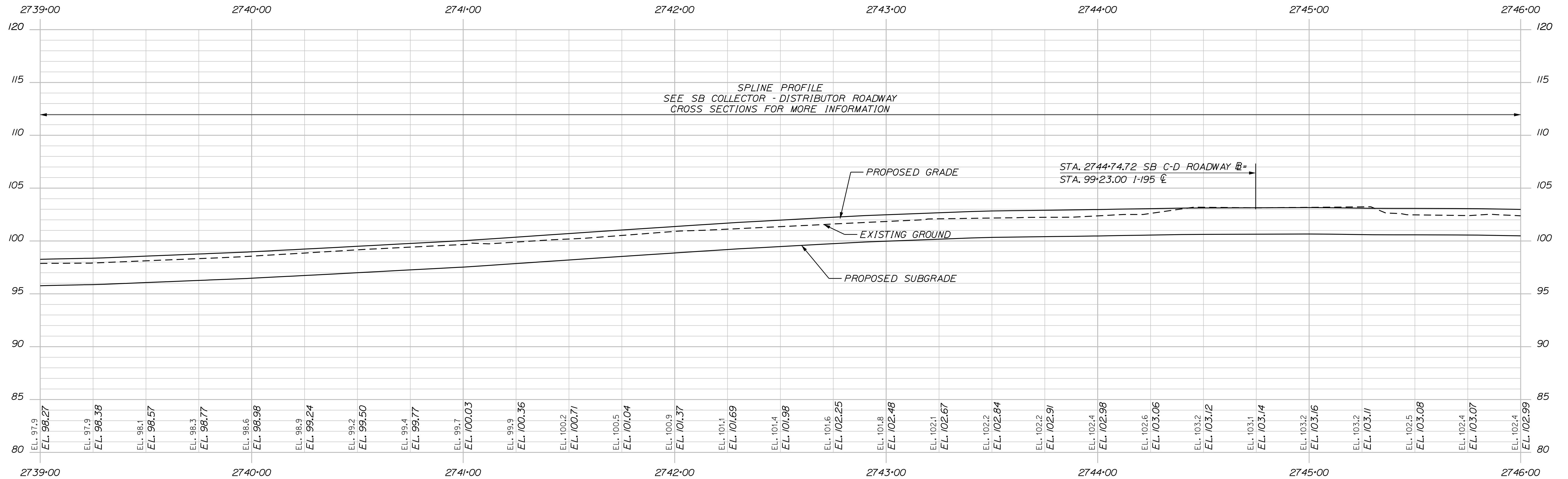
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: PR-13

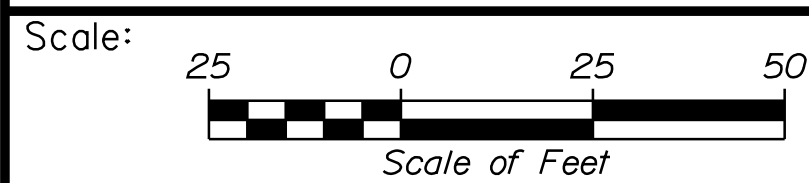
146 OF 735

Date: 10/17/2022



SB COLLECTOR - DISTRIBUTOR ROADWAY PROFILE

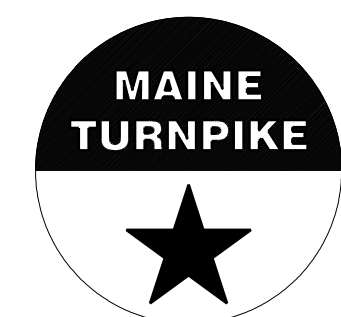
Filename: ...MSTA\_Profile-SB-CD-4.dgn



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MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
SB COLLECTOR - DISTRIBUTOR ROADWAY  
PROFILE 14

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

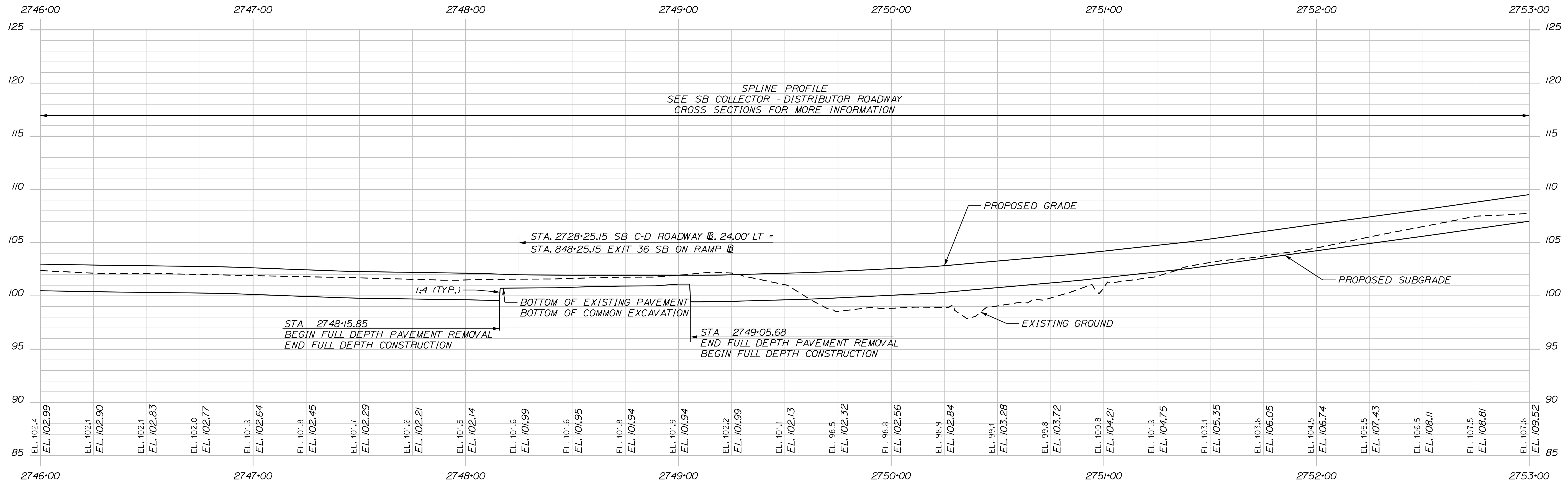
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: PR-14

147 OF 735

Date: 10/17/2022



SB COLLECTOR - DISTRIBUTOR ROADWAY PROFILE

Filename: ...MSTA\_Profile-SB-CD-5.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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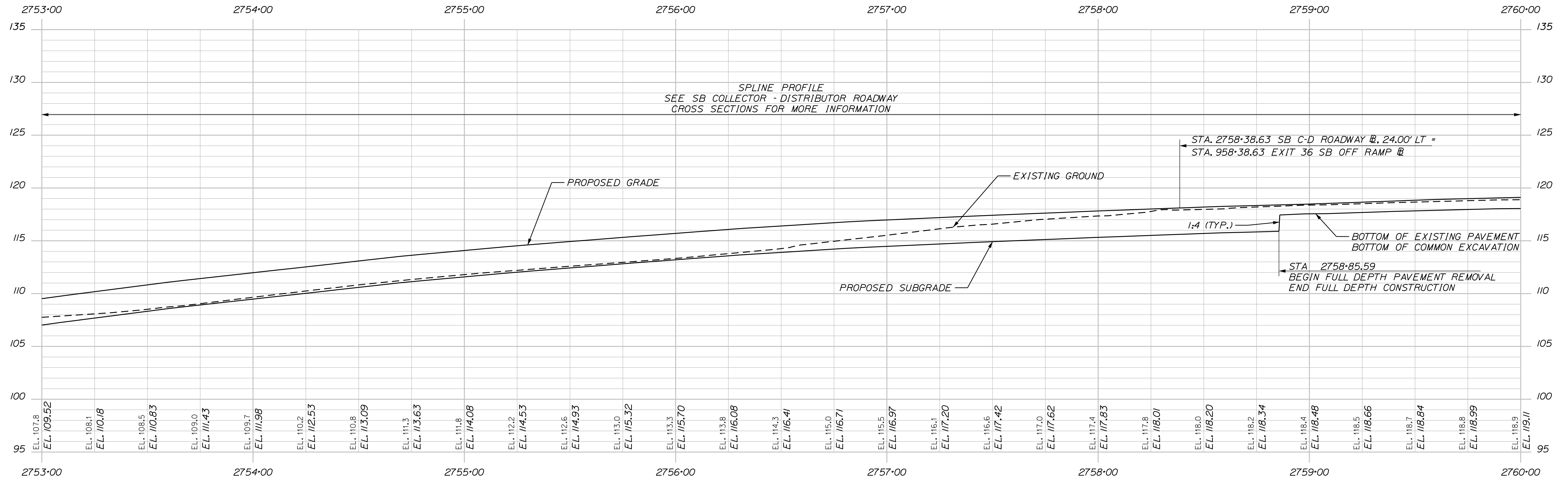
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

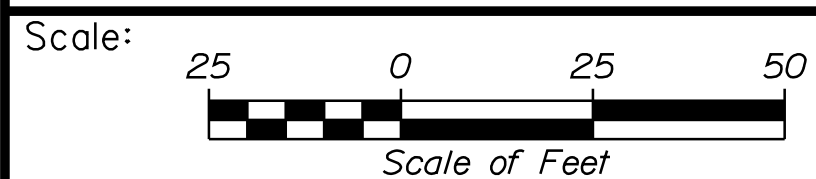
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SB COLLECTOR - DISTRIBUTOR ROADWAY  
 PROFILE 15

SHEET NUMBER: PR-15  
 CONTRACT: 2022.07  
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Date: 10/17/2022



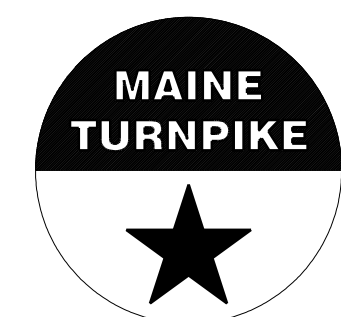
SB COLLECTOR - DISTRIBUTOR ROADWAY PROFILE



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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
SB COLLECTOR - DISTRIBUTOR ROADWAY  
PROFILE 16

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

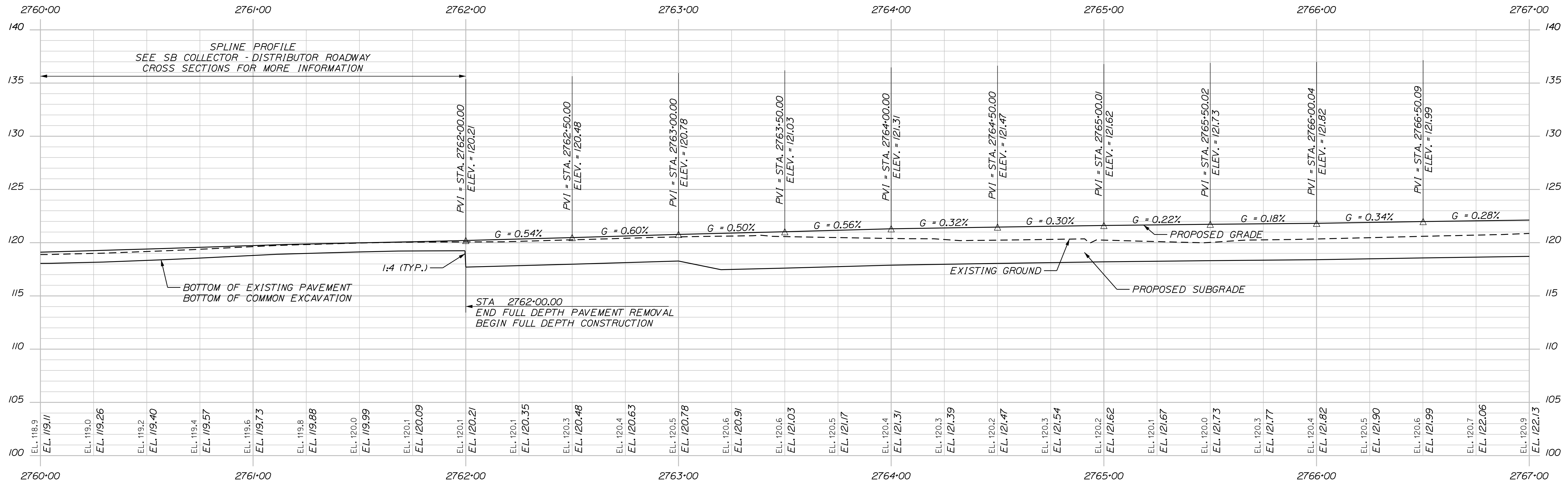
CONTRACT: 2022.07

SHEET NUMBER: PR-16

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Filename: ...MSTA\_Profile-SB-CD-6.dgn

Date: 10/17/2022



SB COLLECTOR - DISTRIBUTOR ROADWAY PROFILE

Filename: ...MSTA\_Profile-SB-CD-7.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

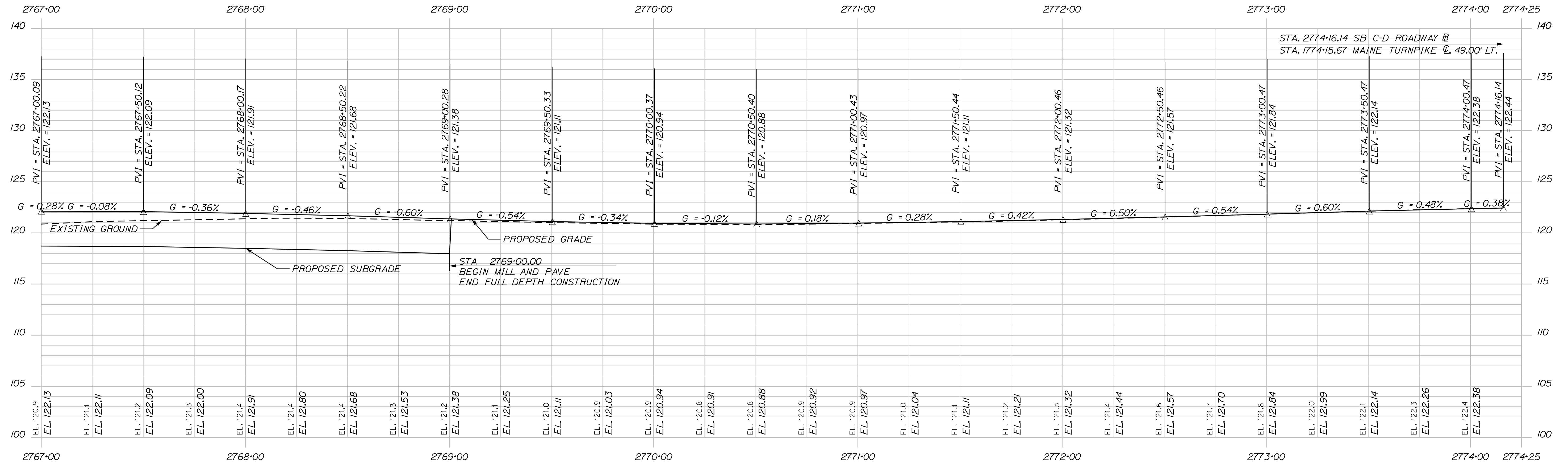
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SB COLLECTOR - DISTRIBUTOR ROADWAY  
 PROFILE 17

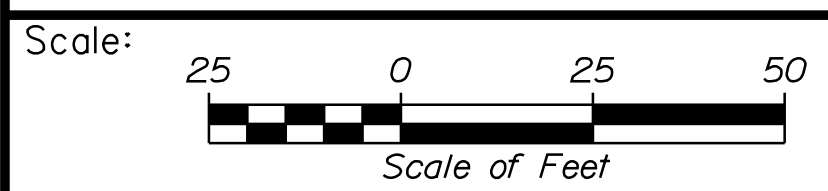
SHEET NUMBER: PR-17  
 CONTRACT: 2022.07  
 150 OF 735

Date: 10/17/2022



SB COLLECTOR - DISTRIBUTOR ROADWAY PROFILE

Filename: ...MSTA\_Profile-SB-CD-8.dgn



No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

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PORTLAND, ME 04102  
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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

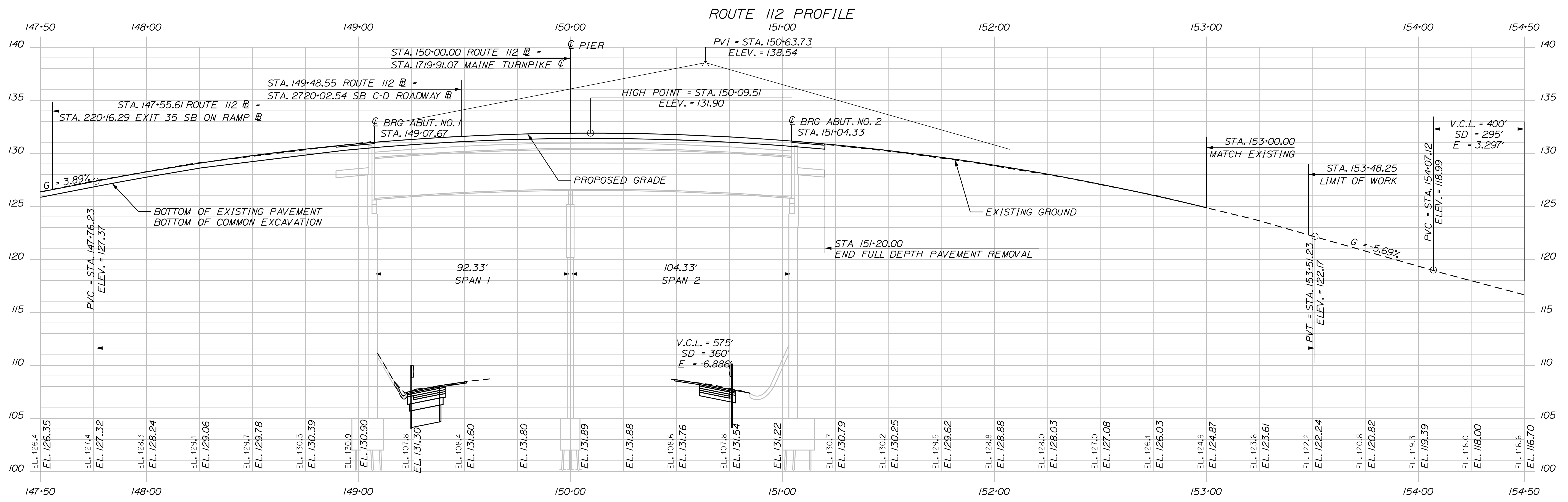
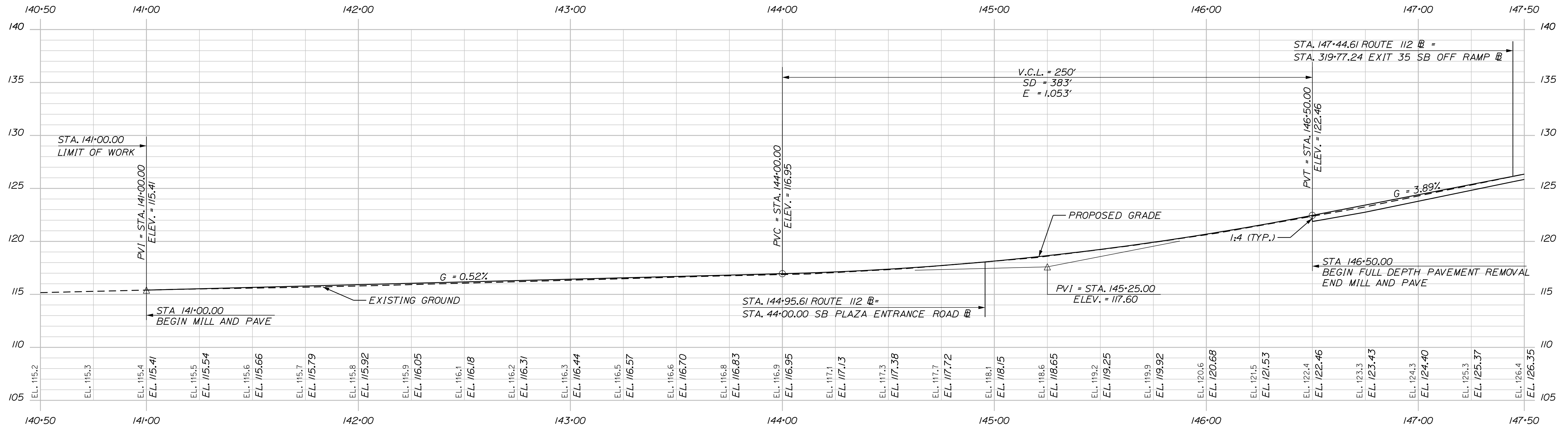
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
SB COLLECTOR - DISTRIBUTOR ROADWAY  
PROFILE 18

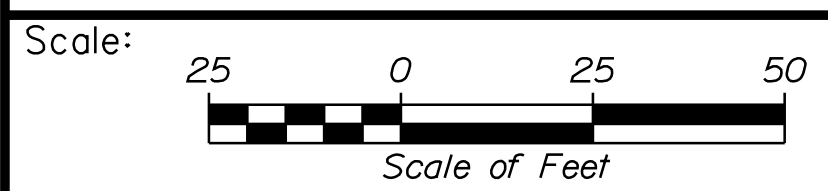
SHEET NUMBER: PR-18  
CONTRACT: 2022.07  
151 OF 735

Date: 10/17/2022

Filename: ...MSTA\_Profile-Route112-SB.dgn



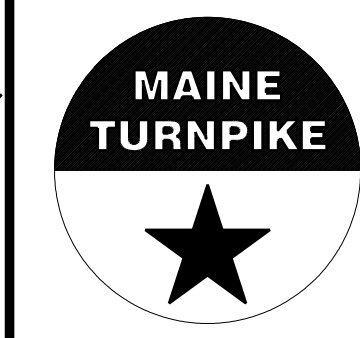
ROUTE 112 PROFILE



Designed by:



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THE GOLD STAR  
 MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 ROUTE 112  
 PROFILE 19

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
Designed	JRH	10\22	Checked
Drawn	THG	10\22	In Charge of

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

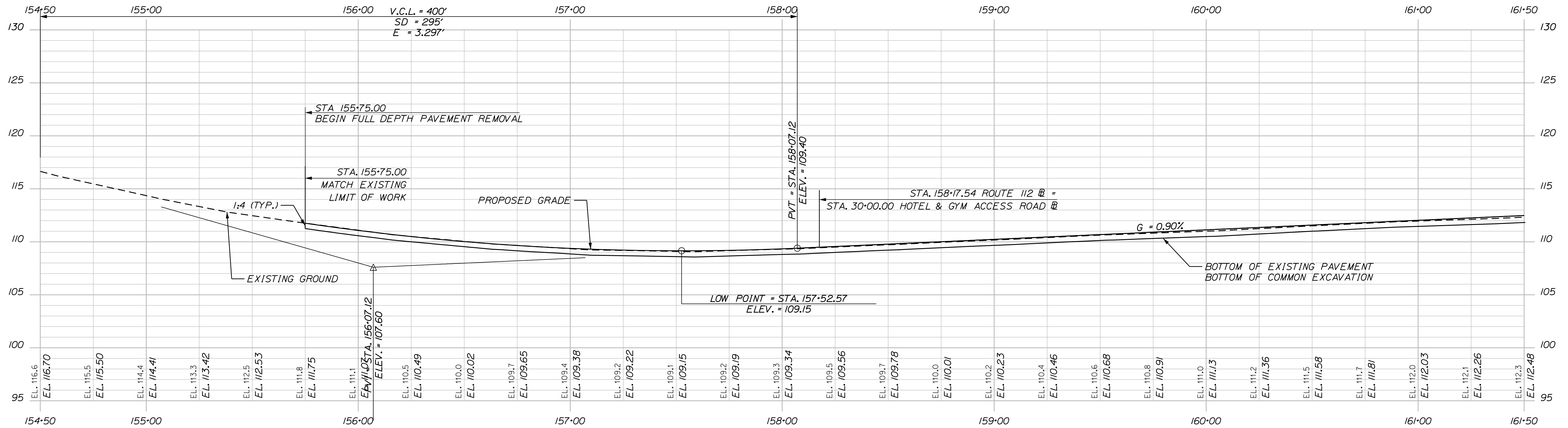
CONTRACT: 2022.07

SHEET NUMBER: PR-19

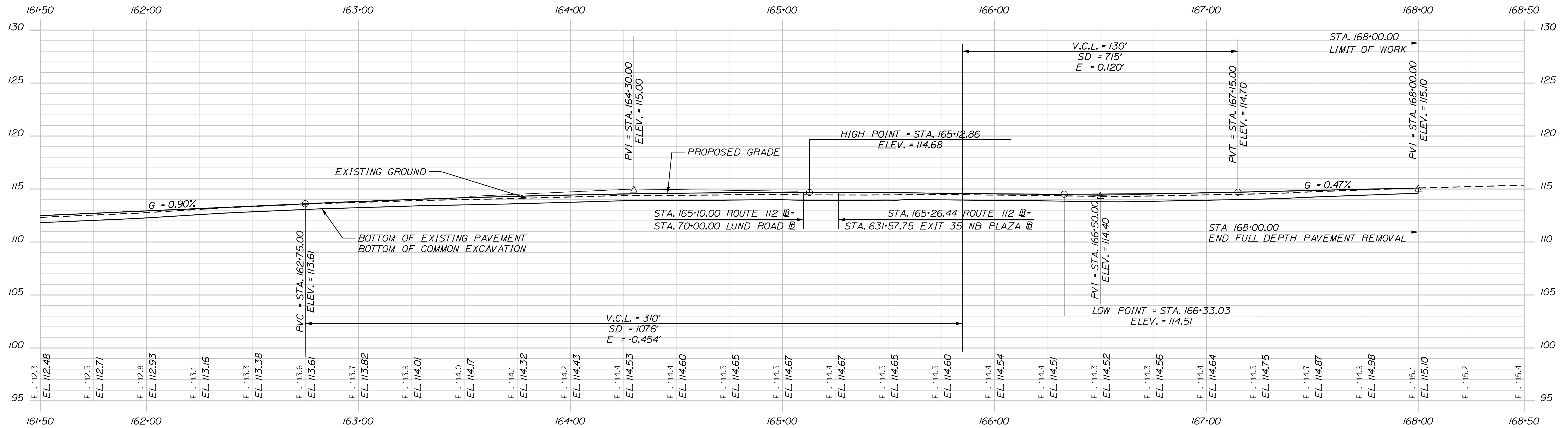
152 OF 735



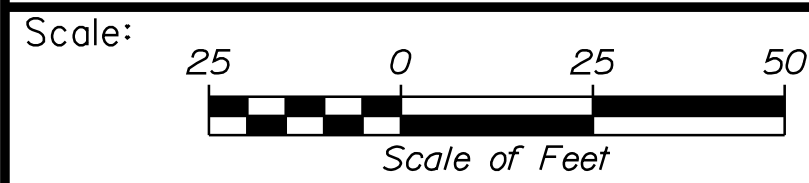
Date: 10/17/2022



ROUTE 112 PROFILE



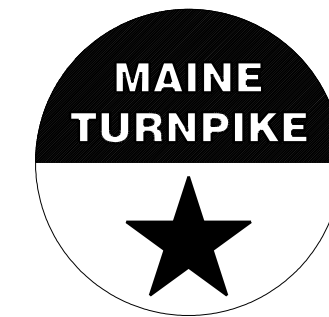
ROUTE 112 PROFILE



Designed by:



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INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
ROUTE 112  
PROFILE 20

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	By	Date	Checked	By	Date
Drawn	JRH	10\22	PLP	10\22	
	THG	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

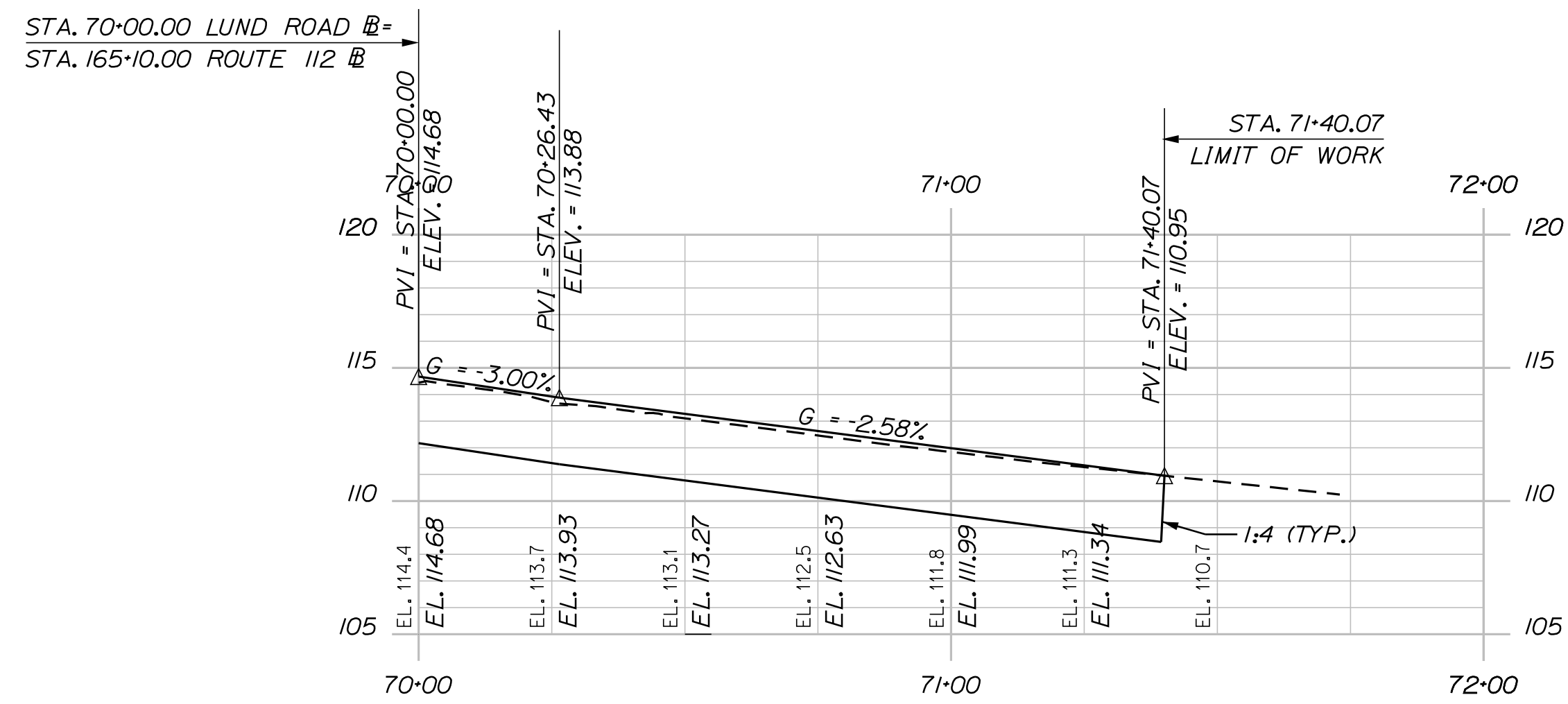
CONTRACT: 2022.07

SHEET NUMBER: PR-20

153 OF 735

Filename: ...MSTA\_Profile-Route112-NB.dgn

Date: 10/7/2022



LUND ROAD PROFILE

Filename: ...MSTA\_Profile-Lund\_Road.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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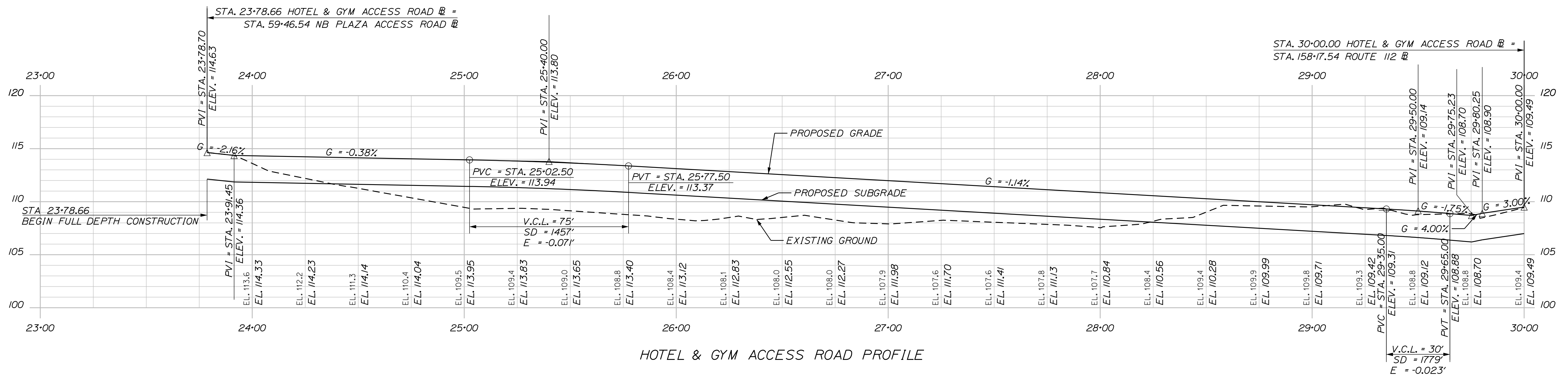
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 LUND ROAD  
 PROFILE 21

SHEET NUMBER: PR-21  
 CONTRACT: 2022.07  
 154 OF 735

Date: 10/17/2022



Filename: ...Profile-NB\_Access\_Rds.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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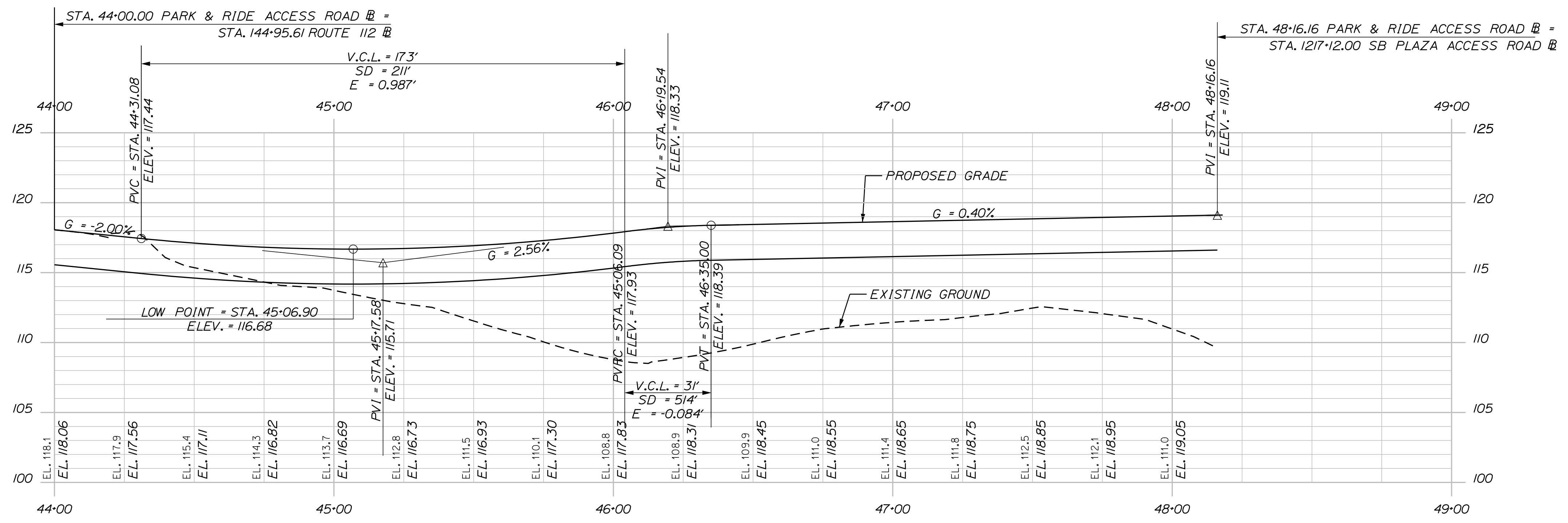
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

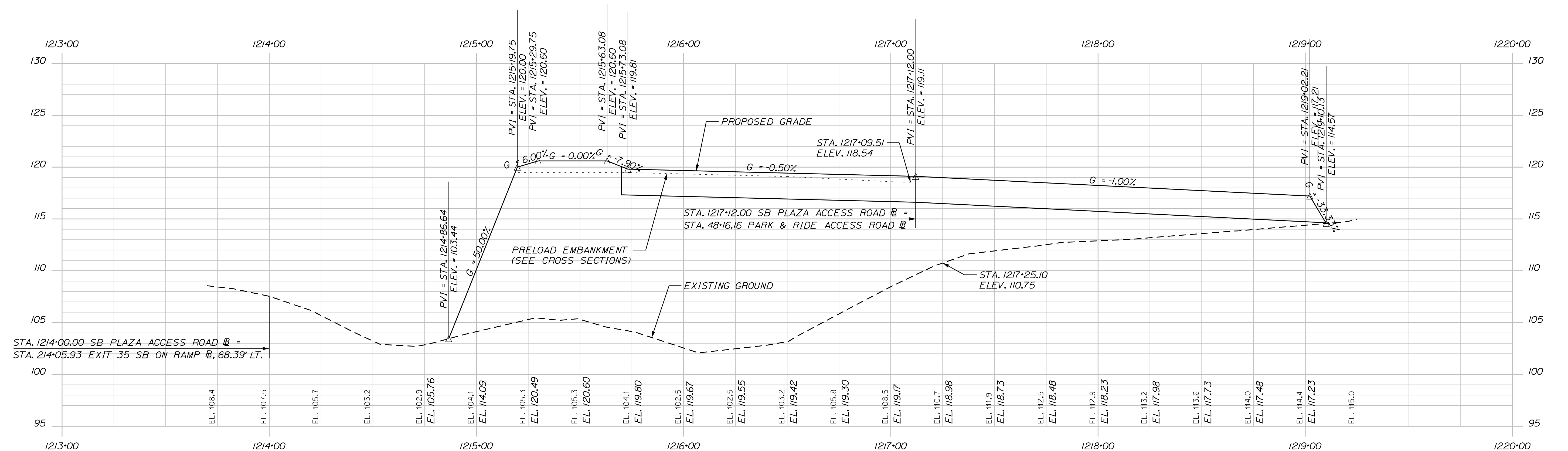
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 EXIT 35 NB ACCESS ROADS  
 PROFILE 22

SHEET NUMBER: PR-22  
 CONTRACT: 2022.07  
 155 OF 735

Date: 10/17/2022



SB PLAZA ENTRANCE ROAD PROFILE



SB PLAZA ACCESS ROAD PROFILE

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

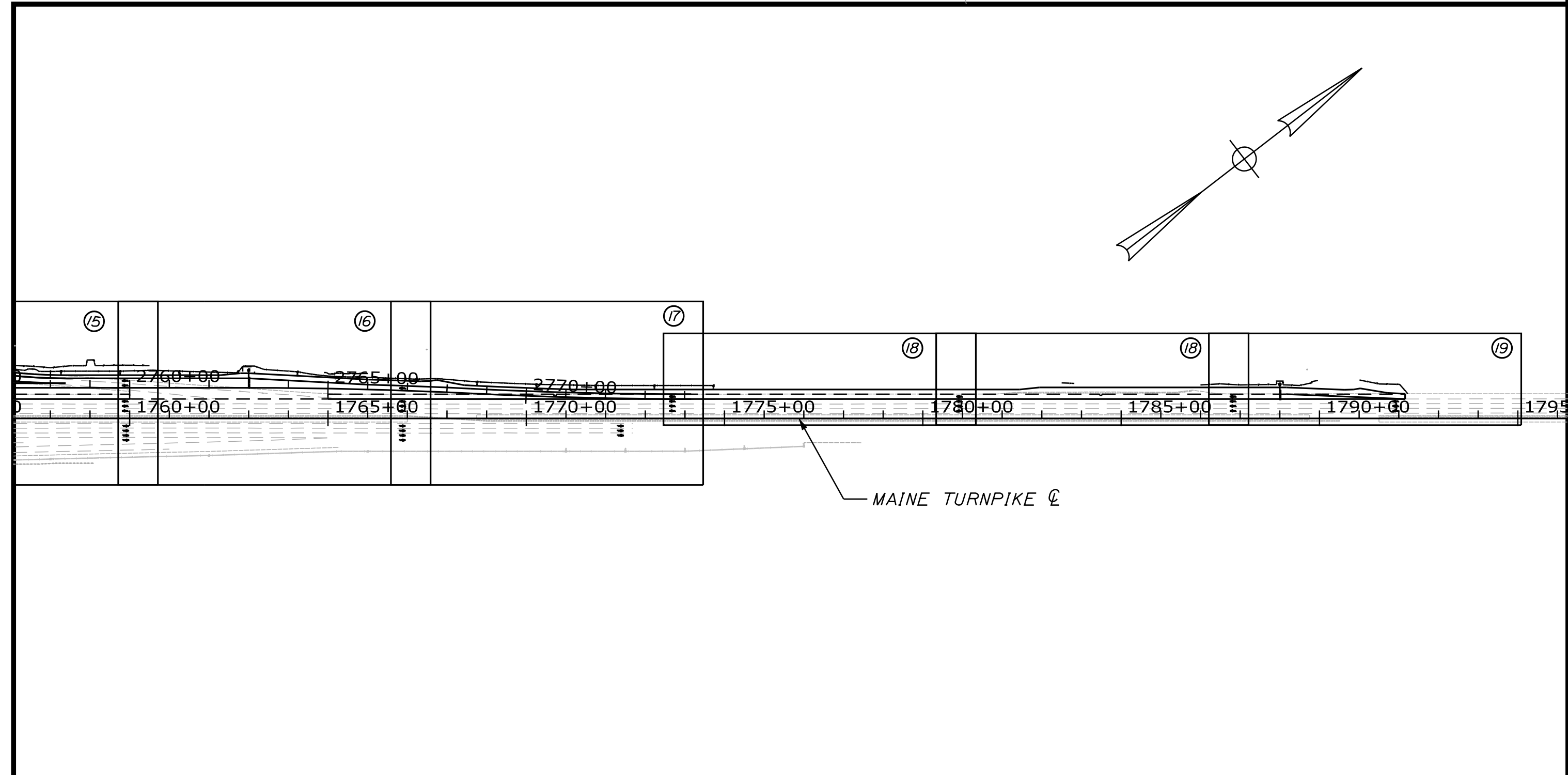
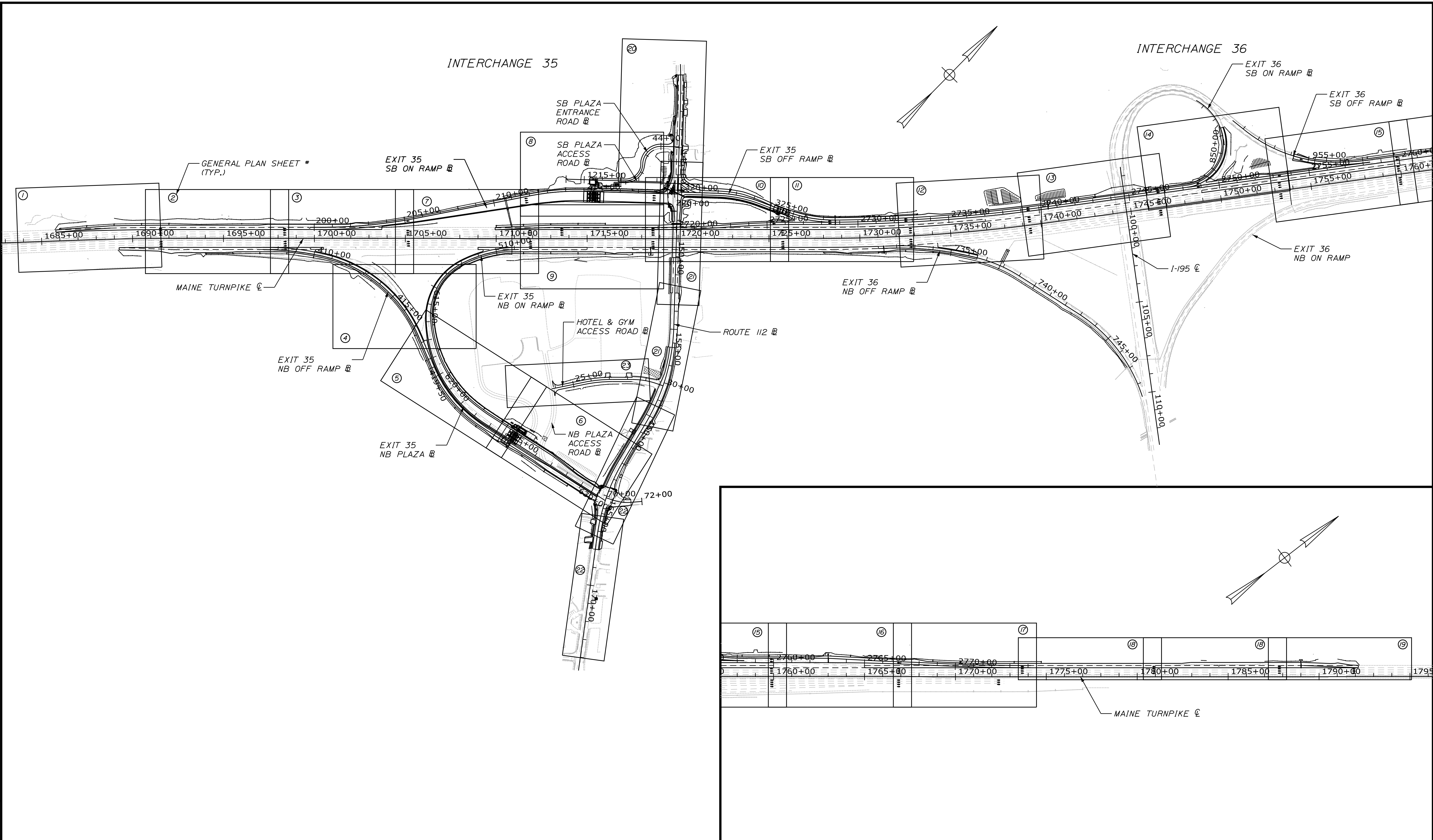
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EXIT 35 SB ACCESS ROADS  
PROFILE 23

SHEET NUMBER: PR-23  
CONTRACT: 2022.07  
156 OF 735

Filename: ...Profile-SB\_Access\_Rds.dgn

Date: 10/17/2022


Filename: ...MSTA\_CM\_Index\_Sheet.dgn



Scale: 250 0 250 500  
Scale of Feet

No.	Revision	By	Date

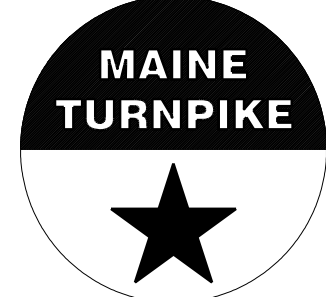
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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PORTLAND, ME 04102  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
GEOMETRY INDEX PLAN

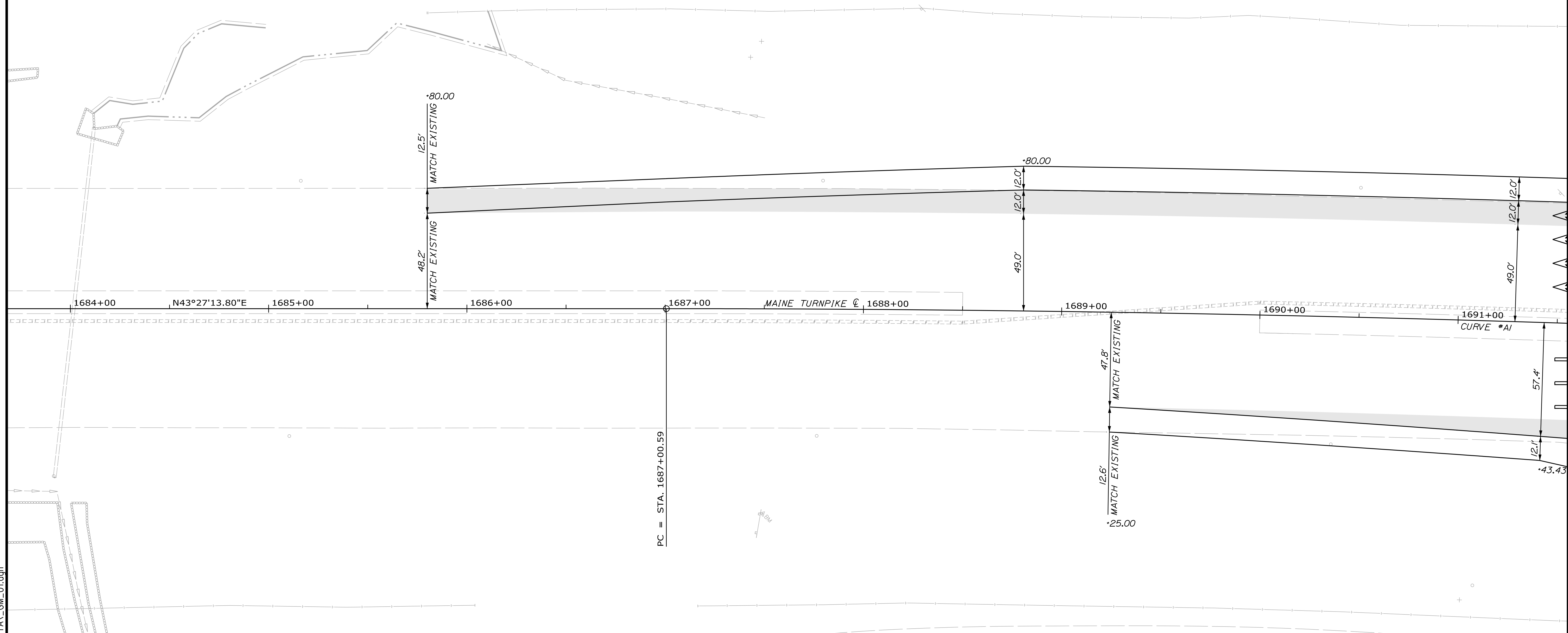
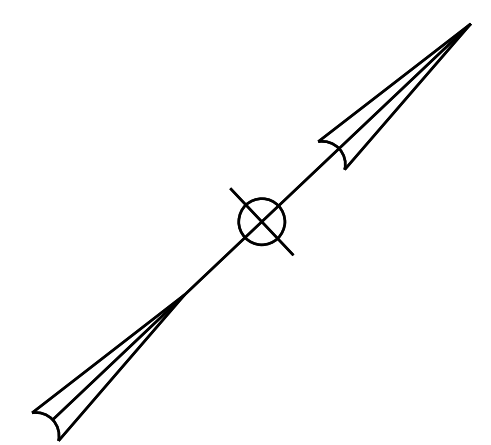
SHEET NUMBER: GM-01  
CONTRACT: 2022.07  
157 OF 735

Date: 10/17/2022

Filename: ...\\00\HIGHWAY\MSTA\GM\_01.dgn

MAINE TURNPIKE B												
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING	
	POB	1590+04.76							241368.5348	953625.9810	N25°52'28.35"E	
	PC	1609+29.89							243100.6788	954466.1141		
A1	PC	1609+29.89							243100.6788	954466.1141		
	PI	1618+12.08	17°34'45.45" RIGHT	100'15.26"	5705.4	882.19	1750.51	67.80	243894.4280	954851.1022		
	CC								240610.8305	959599.5578		
	PT	1626+80.40							244534.8329	955457.8438		
	PT	1626+80.40							244534.8329	955457.8438	N43°27'13.80"E	
	PI	1632+31.60							244934.9632	955836.9410		
	PI	1632+31.60							247966.7857	958700.9671	N43°22'11.27"E	
	PI	1674+02.28							247966.7857	958700.9671	N43°27'13.80"E	
	PC	1687+00.59							248909.2611	959593.9007		

MAINE TURNPIKE B												
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING	
A2	PC	1687+00.59							248909.2611	959593.9007		
	PI	1689+54.09	2°04'28.88" RIGHT	0'24'33.32"	14000.00	253.50	506.94	2.29	249093.2831	959768.2495		
	CC								239280.4826	969756.9035		
	PT	1692+07.53							249270.8728	959949.1461		
	PT	1692+07.53							249270.8728	959949.1461	N45°31'42.69"E	
	PC	1727+81.78							251774.8301	962499.7303		
A3	PC	1727+81.78							251774.8301	962499.7303		
	PI	1734+09.85	7°51'12.37" LEFT	0'37'34.26"	9150.00	628.07	1254.18	21.53	252214.8281	962947.9216		
	CC								258304.2637	956089.6603		
	PT	1740+35.96							252711.9398	963331.7880		
	PT	1740+35.96							252711.9398	963331.7880	N37°40'30.31"E	
	PI	1799+92.20							257426.2420	966972.1415		
	PI	1799+92.20							257426.2420	966972.1415	N37°38'52.04"E	
	POE	1900+00.00							265350.2210	973084.9626		



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

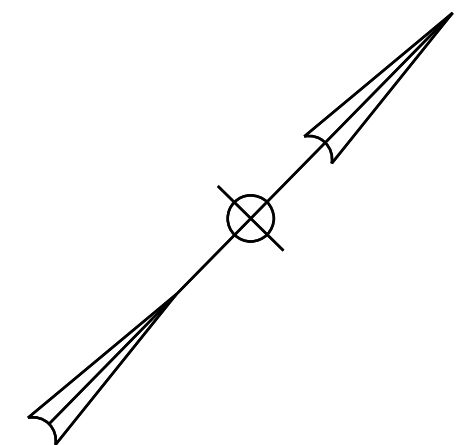
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GEOMETRIC PLAN 1

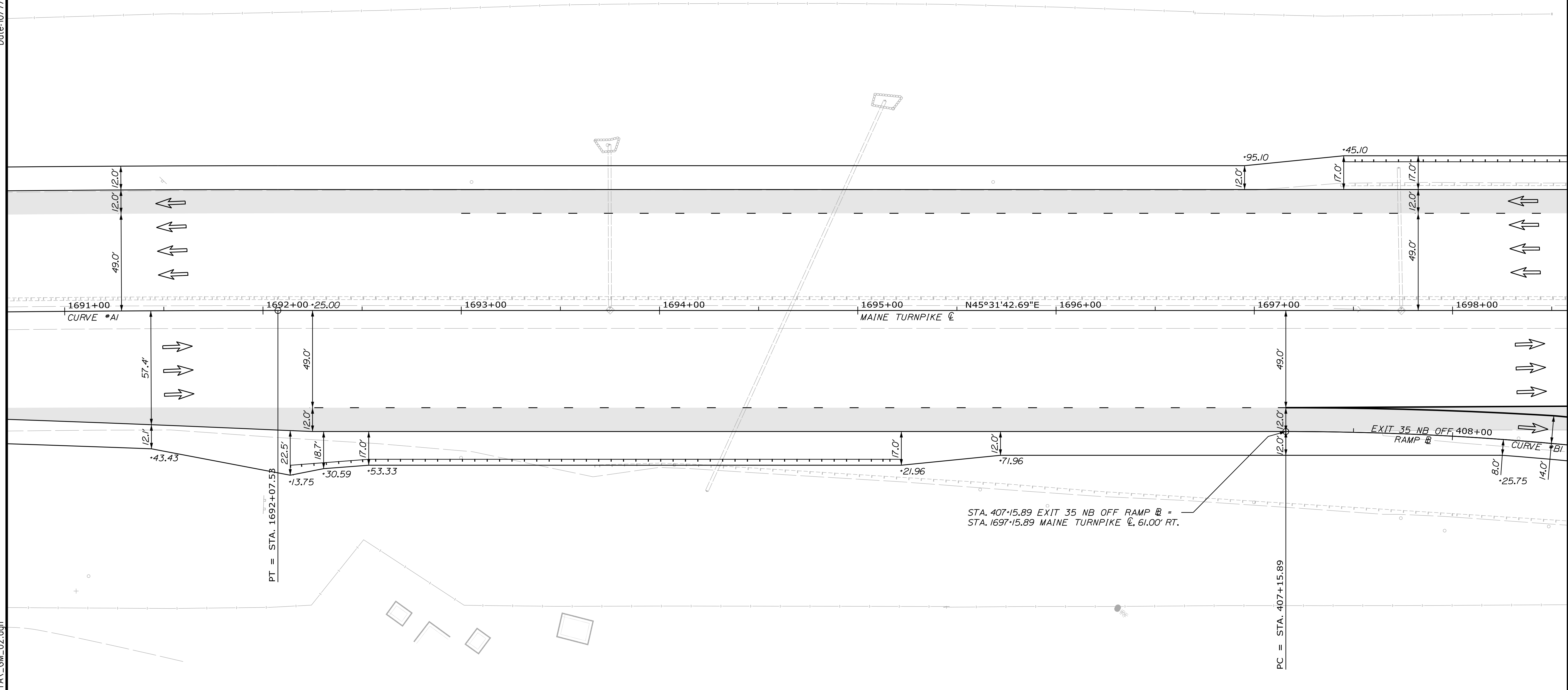
SHEET NUMBER: GM-02  
158 OF 735

CONTRACT: 2022.07



EXIT 35 NB OFF RAMP B											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
B1	PC	407+15.89							249583.4756	960354.6440	
	PI	408+83.57	12°45'23.84" RIGHT	3°49'11.0"	1500	167.68	333.97	9.34	249700.9424	960474.2982	
	CC								248513.0767	961405.4751	
	PCC	410+49.86							249789.0889	960616.9368	
B2	PCC	410+49.86							249789.0889	960616.9368	
	PI	414+34.28	54°16'35.59" RIGHT	7°38'22.0"	750	384.43	710.48	92.78	249991.1791	960943.9591	
	CC								249151.0828	961011.2059	
	PT	417+60.34							249843.6830	961298.9645	
	PT	417+60.34							249843.6830	961298.9645	567°26'17.88"E
	POE	419+50.29							249770.8023	961474.3796	

Date: 10/17/2022



Filename: ...:\00\HIGHWAY\MSTA\GM\_02.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 2

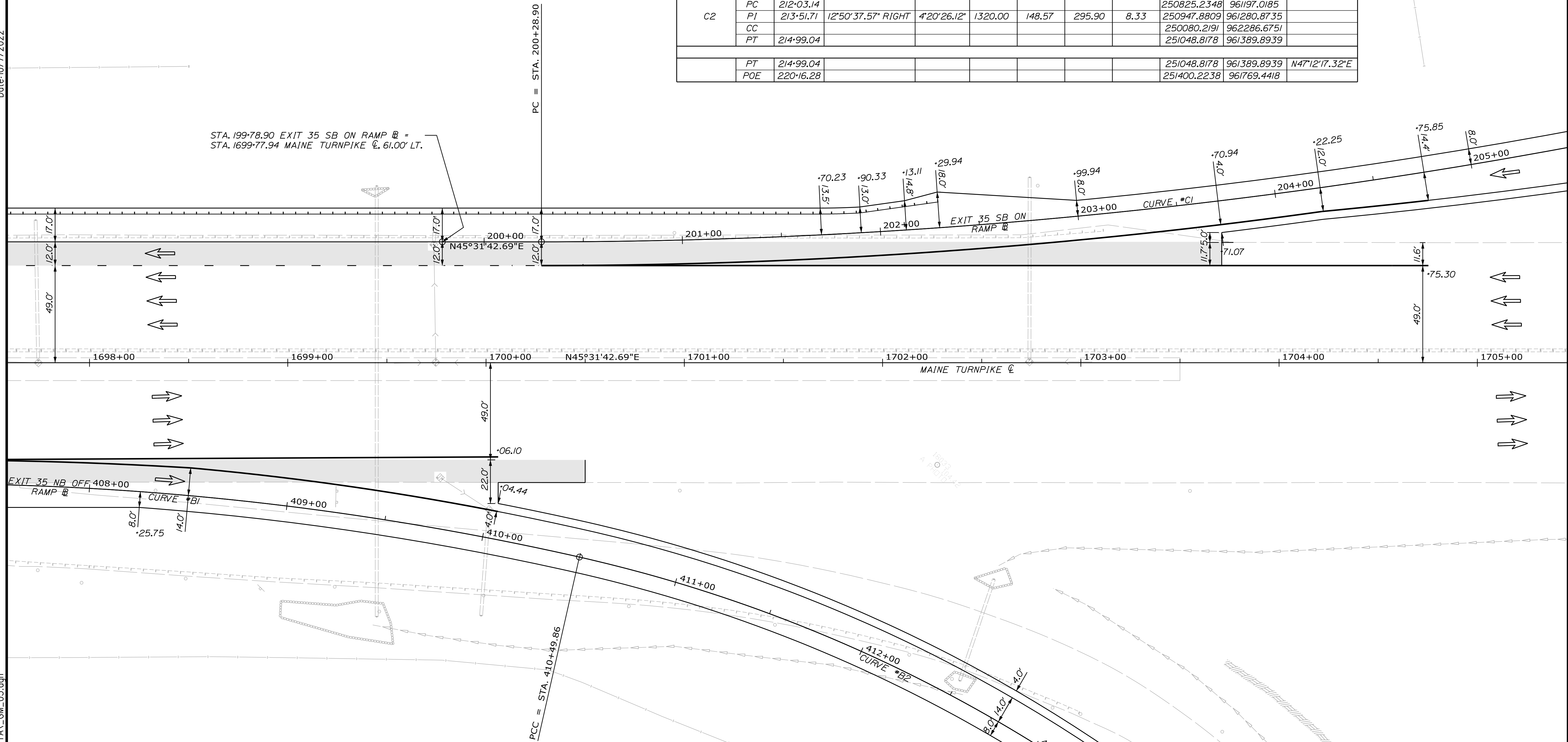
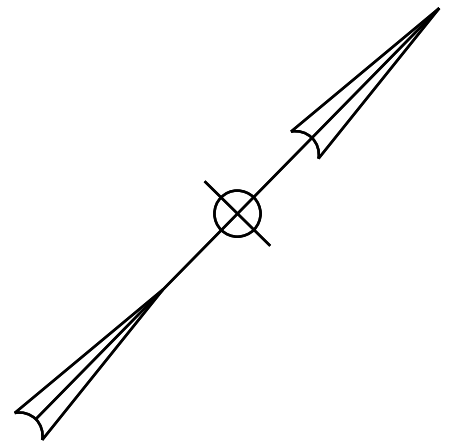
SHEET NUMBER: GM-03  
 159 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...00\HIGHWAY\MSTA\GM\_03.dgn

EXIT 35 SB ON RAMP B											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	199+78.90							249854.1149	960456.1750	N45°31'42.69"E
	PC	200+28.90							249889.1426	960491.8550	
C1	PC	200+28.90							249889.1426	960491.8550	
	PI	203+06.55	11°0'02.93" LEFT	2'01"02.85"	2840.00	277.65	553.54	13.54	250083.6520	960689.9864	
	CC								251915.7646	958502.2814	
	PT	205+82.44							250312.8520	960846.6941	
	PT	205+82.44							250312.8520	960846.6941	
	PC	212+03.14							250825.2348	961197.0185	
C2	PC	212+03.14							250825.2348	961197.0185	
	PI	213+51.71	12°50'37.57" RIGHT	4°20'26.12"	1320.00	148.57	295.90	8.33	250947.8809	961280.8735	
	CC								250080.2191	962286.6751	
	PT	214+99.04							251048.8178	961389.8939	
	PT	214+99.04							251048.8178	961389.8939	N47°12'17.32"E
	POE	220+16.28							251400.2238	961769.4418	



Scale: 1" = 25'

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

**GEOMETRIC PLAN 3**

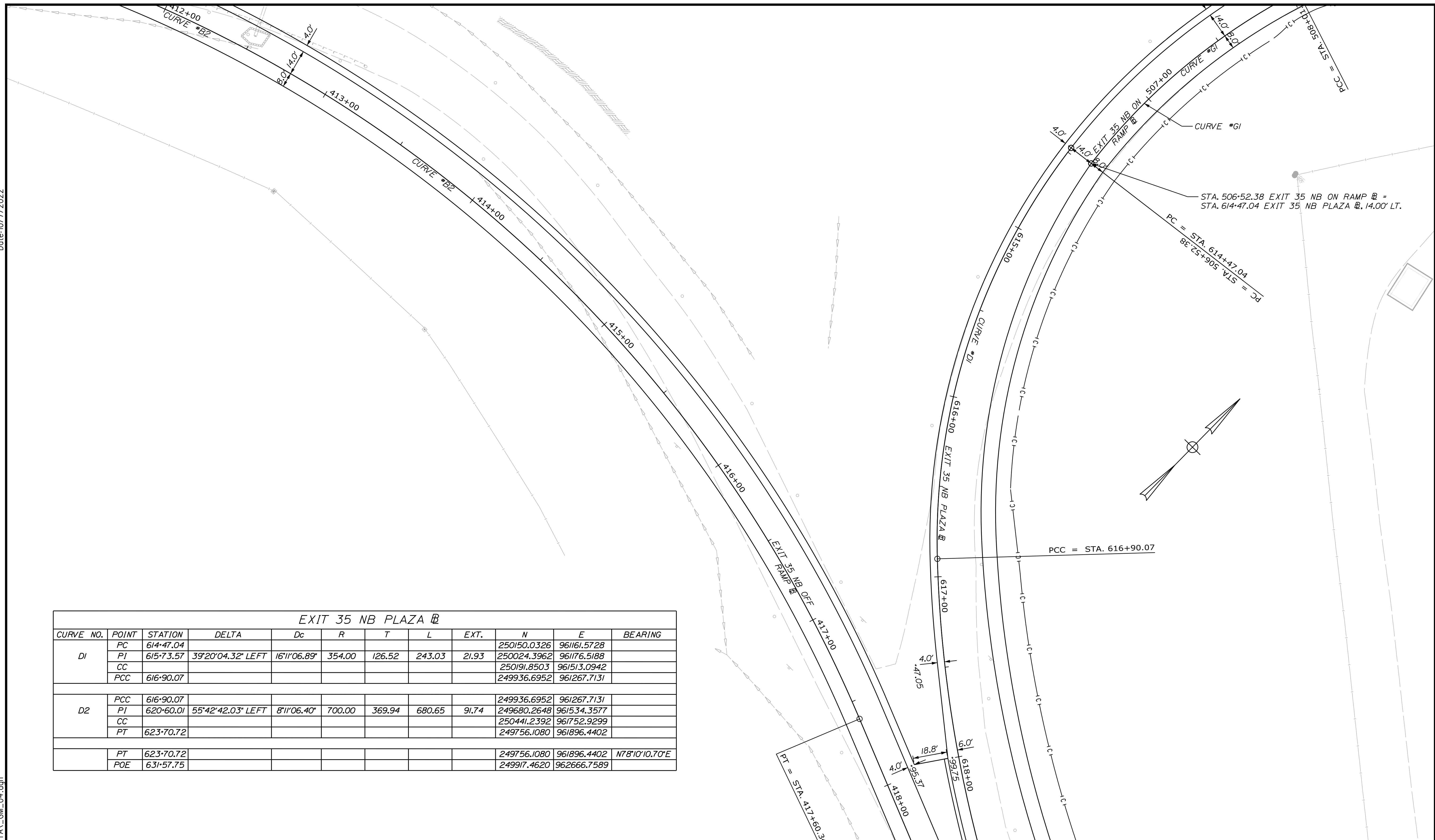
SHEET NUMBER: GM-04  
 160 OF 735

CONTRACT: 2022.07



Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\GM\_04.dgn



EXIT 35 NB PLAZA B											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
D1	PC	614+47.04							250150.0326	961161.5728	
	PI	615+73.57	39°20'04.32" LEFT	16'11"06.89"	354.00	126.52	243.03	21.93	250024.3962	961176.5188	
	CC								250191.8503	961513.0942	
	PCC	616+90.07							249936.6952	961267.7131	
D2	PCC	616+90.07							249936.6952	961267.7131	
	PI	620+60.01	55°42'42.03" LEFT	8'11"06.40"	700.00	369.94	680.65	91.74	249680.2648	961534.3577	
	CC								250441.2392	961752.9299	
	PT	623+70.72							249756.1080	961896.4402	
	PT	623+70.72							249756.1080	961896.4402	N78°10'10.70"E
	POE	631+57.75							249917.4620	962666.7589	

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

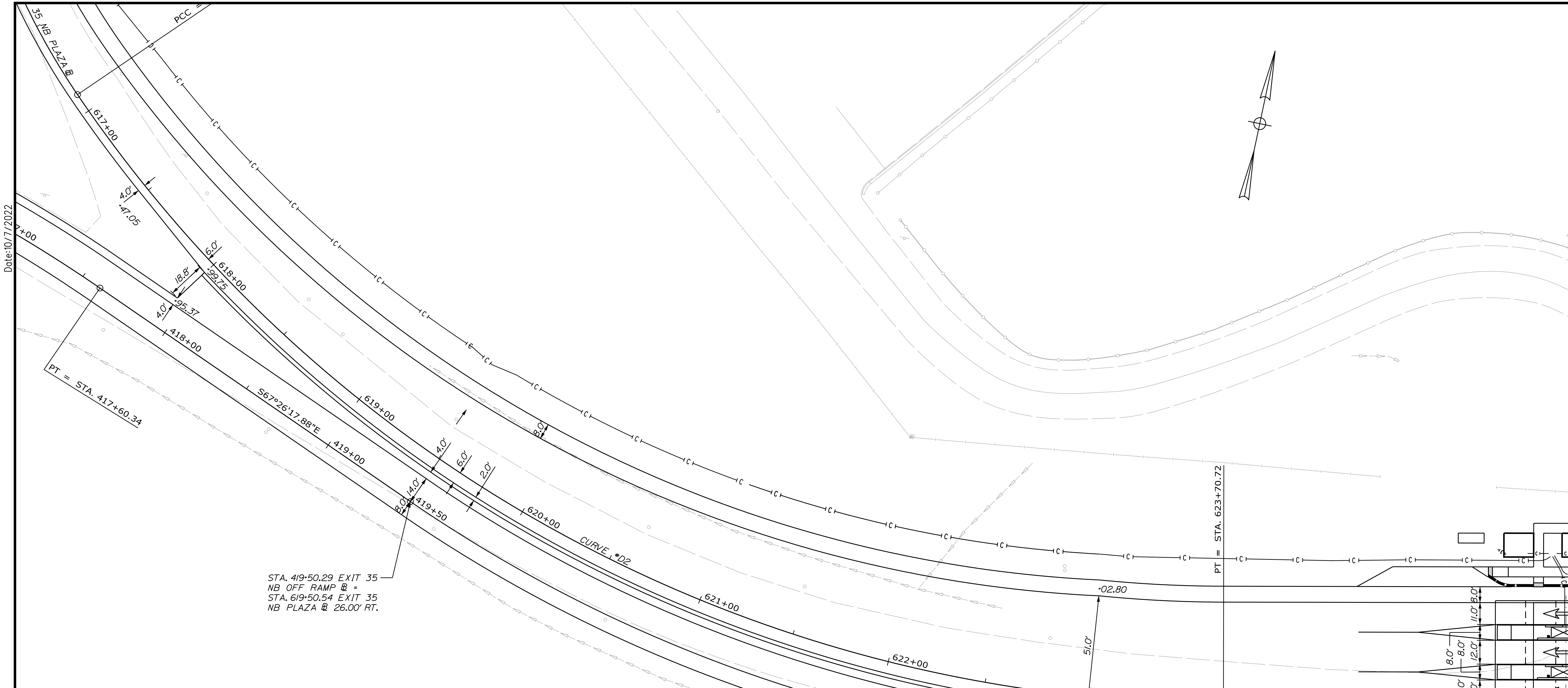
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

GEOMETRIC PLAN 4

SHEET NUMBER: GM-05  
 161 OF 735

CONTRACT: 2022.07



STA. 419+50.29 EXIT 35 NB OFF RAMP B = STA. 619+50.54 EXIT 35 NB PLAZA B 26.00' RT.

NB PLAZA ACCESS ROAD B									
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	BEARING
	POB	54+00.00							N78°10'10.70"E
	PC	56+48.12							
E1	PC	56+48.12							249926.5155 962144.1678
	PI	56+95.31	99°26'03.36" LEFT	143°14'22.02"	40	47.20	69.42	21.87	249936.1911 962190.3603
	CC								249965.6658 962135.9672
	PCC	57+17.54							249980.1728 962173.2439
E2	PCC	57+17.54							249980.1728 962173.2439
	PI	58+15.99	33°42'22.02" LEFT	17°37'46.09"	325	98.45	191.19	14.58	250071.9216 962137.5378
	CC								249862.3032 961870.3714
	PT	59+08.73							250128.4324 962056.9196
	PT	59+08.73							250128.4324 962056.9196 N54°58'14.67"W
	POE	60+28.15							250196.9800 961959.1298

Filename: ...00\HIGHWAY\MSTA\GM\_05.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

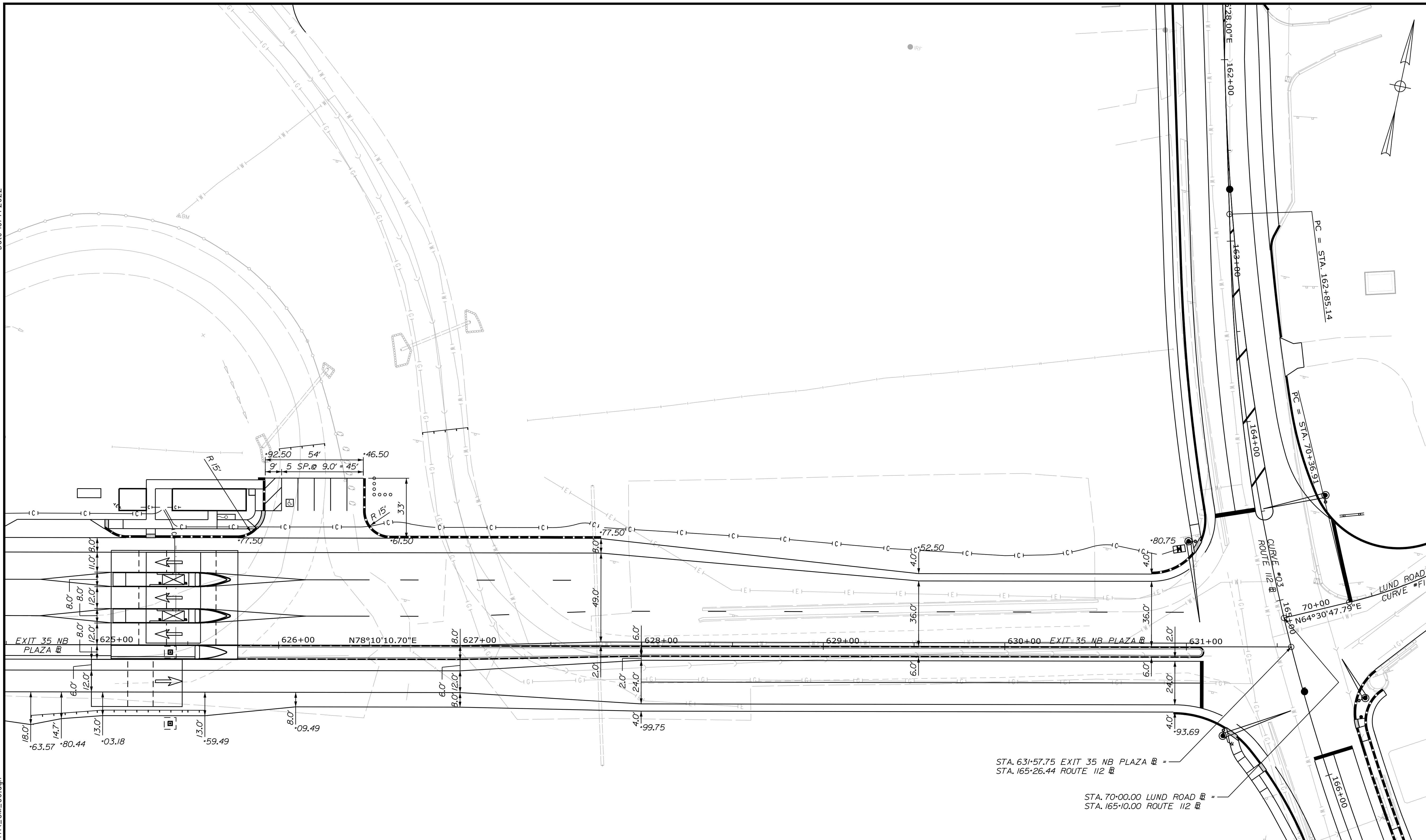
**GEOMETRIC PLAN 5**

SHEET NUMBER: GM-06  
162 OF 735

CONTRACT: 2022.07


Date: 10/17/2022

Filename: ...100\HIGHWAY\MSTA\GM\_06.dgn



Scale: 25 0 25 50  
Scale of Feet

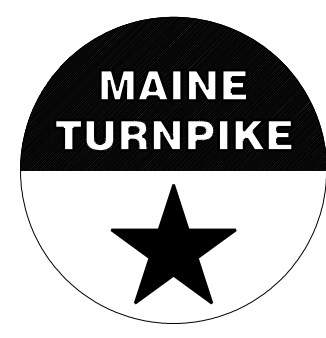
No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GEOMETRIC PLAN 6

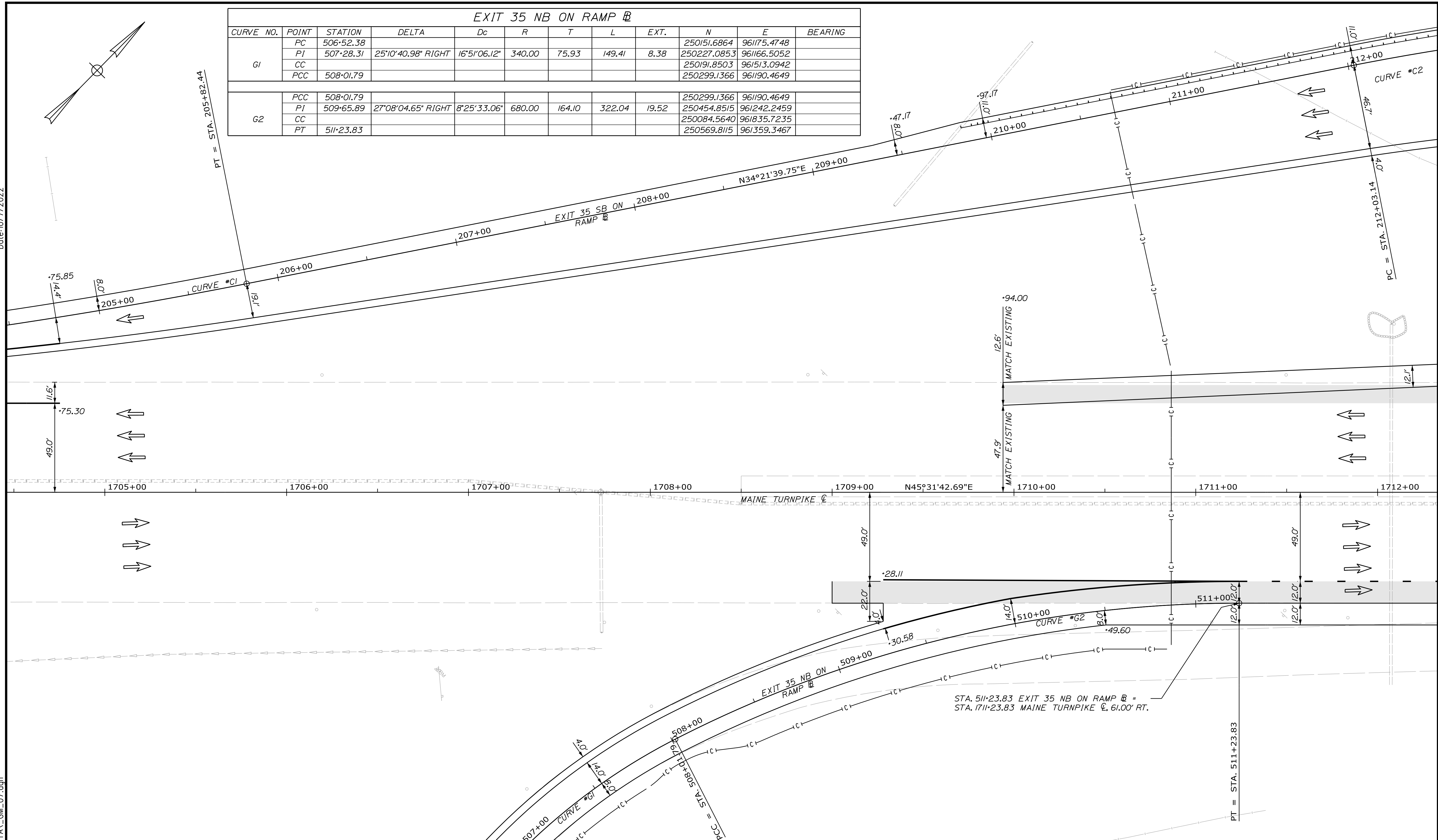
SHEET NUMBER: GM-07  
163 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...\\00\HIGHWAY\MSTA\GM\_07.dgn

EXIT 35 NB ON RAMP B											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
G1	PC	506+52.38							250151.6864	961175.4748	
	PI	507+28.31	25°10'40.98" RIGHT	16°51'06.12"	340.00	75.93	149.41	8.38	250227.0853	961166.5052	
	CC								250191.8503	961513.0942	
	PCC	508+01.79							250299.1366	961190.4649	
G2	PCC	508+01.79							250299.1366	961190.4649	
	PI	509+65.89	27°08'04.65" RIGHT	8°25'33.06"	680.00	164.10	322.04	19.52	250454.8515	961242.2459	
	CC								250084.5640	961835.7235	
	PT	511+23.83							250569.8115	961359.3467	



Scale: 1" = 25'

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

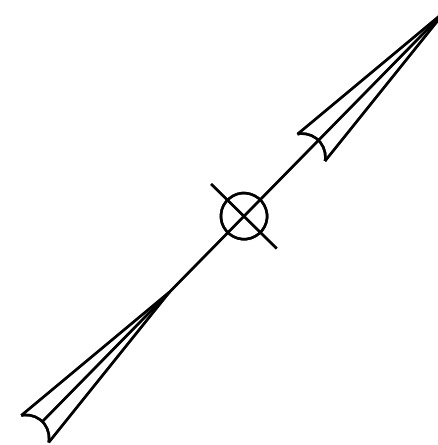
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

GEOMETRIC PLAN 7

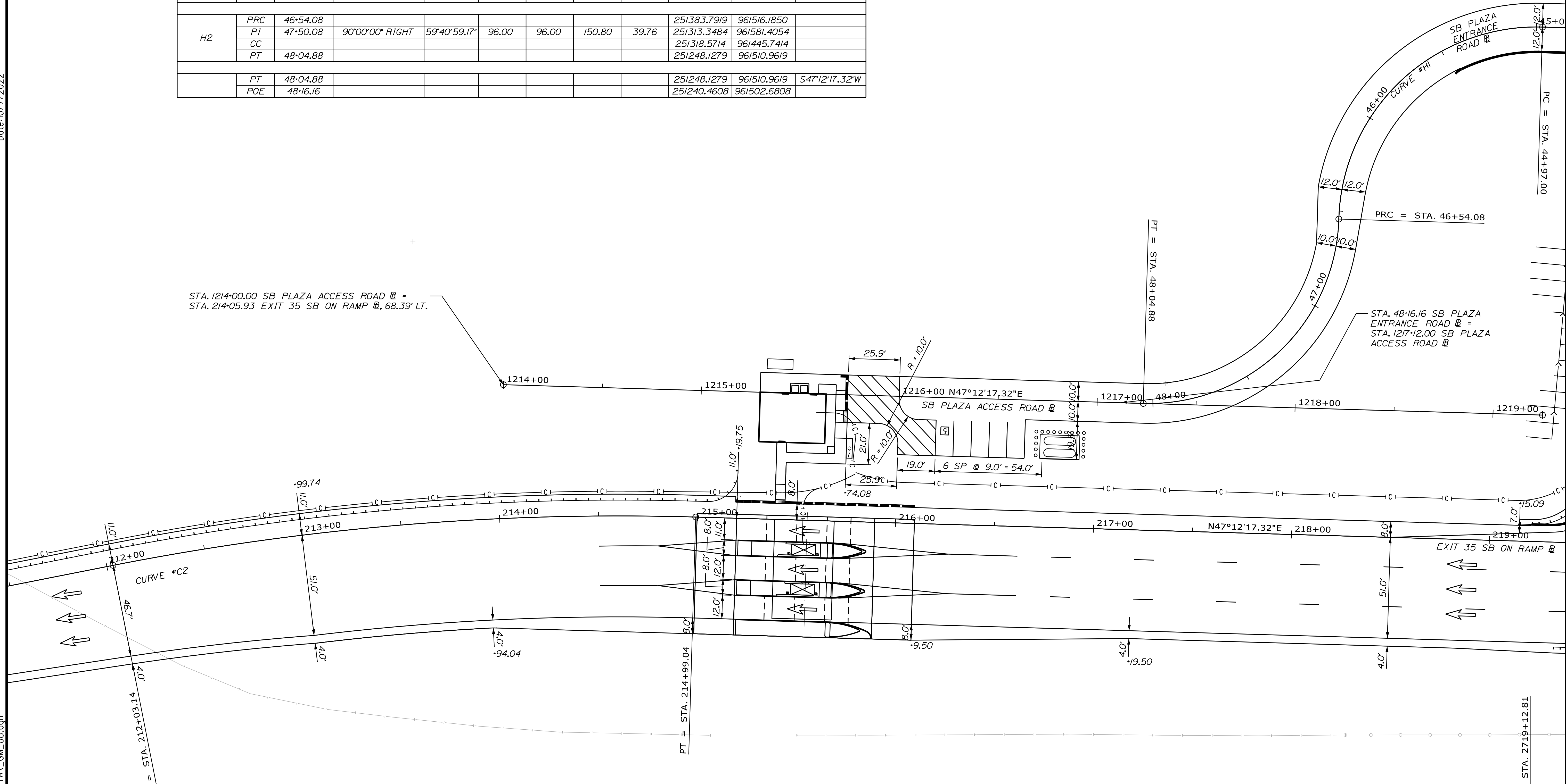
SHEET NUMBER: GM-08  
 164 OF 735

CONTRACT: 2022.07



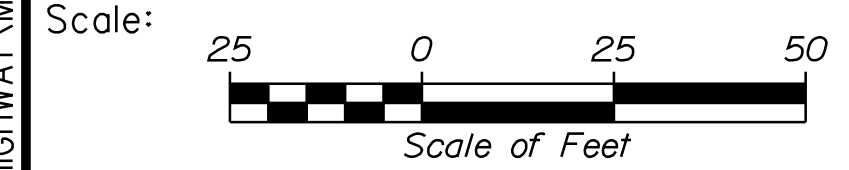
SB PLAZA ENTRANCE ROAD @											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	44+00.00							251591.0084	961592.8030	S47°12'17.32"W
	PC	44+97.00							251525.1086	961521.6257	
H1	PC	44+97.00							251525.1086	961521.6257	
	PI	45+97.00	90°00'00" LEFT	57°17'44.8"	100.00	100.00	157.08	41.42	251457.1706	961448.2470	
	CC								251451.7299	961589.5637	
	PRC	46+54.08							251383.7919	961516.1850	
H2	PRC	46+54.08							251383.7919	961516.1850	
	PI	47+50.08	90°00'00" RIGHT	59°40'59.17"	96.00	96.00	150.80	39.76	251313.3484	961581.4054	
	CC								251318.5714	961445.7414	
	PT	48+04.88							251248.1279	961510.9619	
	PT	48+04.88							251248.1279	961510.9619	S47°12'17.32"W
	POE	48+16.16							251240.4608	961502.6808	

Date: 10/7/2022



STA. 1214+00.00 SB PLAZA ACCESS ROAD @ =  
 STA. 214+05.93 EXIT 35 SB ON RAMP @, 68.39' LT.

STA. 48+16.16 SB PLAZA  
 ENTRANCE ROAD @ =  
 STA. 1217+12.00 SB PLAZA  
 ACCESS ROAD @



No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 8

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

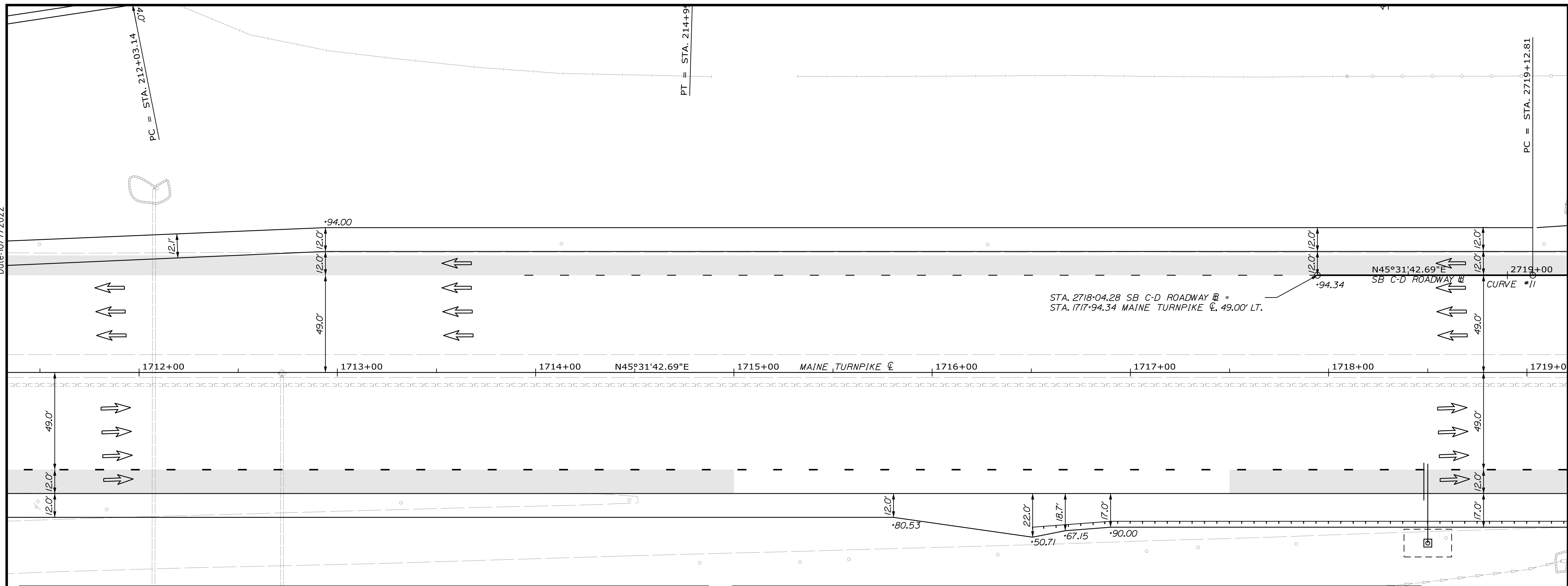
SHEET NUMBER: GM-09

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Filename: ...00\HIGHWAY\MSTA\GM\_08.dgn

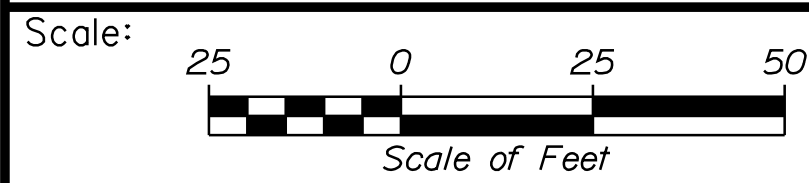
Date: 10/17/2022

Filename: ...00\HIGHWAY\MSTA\GM\_09.dgn



SB C-D ROADWAY											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	PT	2718+04.19							251118.0382	961760.7635	N45°31'42.69°E
	PC	2719+12.81							251194.1280	961838.2702	
11	PC	2719+12.81							251194.1280	961838.2702	
	PI	2720+99.74	4°17'26.78" LEFT	1°08'53.56"	4990.00	186.93	373.69	3.50	251325.0848	961971.6655	
	CC								254754.9885	958342.5052	
	PRC	2722+86.50							251465.6550	962094.8891	
12	PRC	2722+86.50							251465.6549	962094.8891	
	PI	2724+73.81	4°17'26.78" RIGHT	1°08'45.30"	5000.00	187.31	374.44	3.51	251606.5068	962218.3596	
	CC								248169.7295	965854.7928	
	PT	2726+60.94							251737.7260	962352.0223	
	PT	2726+60.94						251737.7260	962352.0223	N45°31'42.69°E	
	PC	2727+92.34						251829.7773	962445.7877		

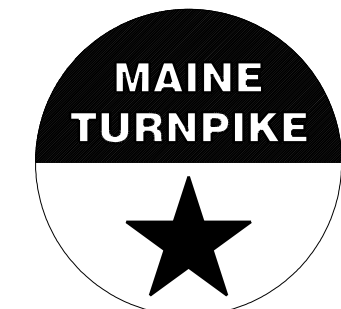
SB C-D ROADWAY											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
13	PC	2727+92.34							251829.7773	962445.7877	
	PI	2734+15.12	7°51'12.37" LEFT	0°37'53.39"	9073.00	622.79	1243.62	21.35	252266.0725	962890.2072	
	CC								258304.2637	956089.6603	
	PT	2740+35.96							252759.0009	963270.8433	
	PT	2740+35.96							252759.0009	963270.8433	N37°40'30.31°E
	PC	2763+01.03							254551.7821	964655.2173	
14	PC	2763+01.03							254551.7821	964655.2173	
	PI	2765+79.87	2°52'40.68" RIGHT	0°30'58.24"	11100.00	278.84	557.55	3.50	254772.4771	964825.6366	
	CC								247767.6514	973440.7493	
	PRC	2768+58.58							254984.3373	965006.9218	
15	PRC	2768+58.58							254984.3373	965006.9218	
	PI	2771+37.42	2°52'40.68" LEFT	0°30'58.24"	11100.00	278.84	557.55	3.50	255196.1974	965188.2070	
	CC								262201.0231	956573.0943	
	PT	2774+16.14							255416.8924	965358.6262	



Designed by:



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PORTLAND, ME 04102  
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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GEOMETRIC PLAN 9

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

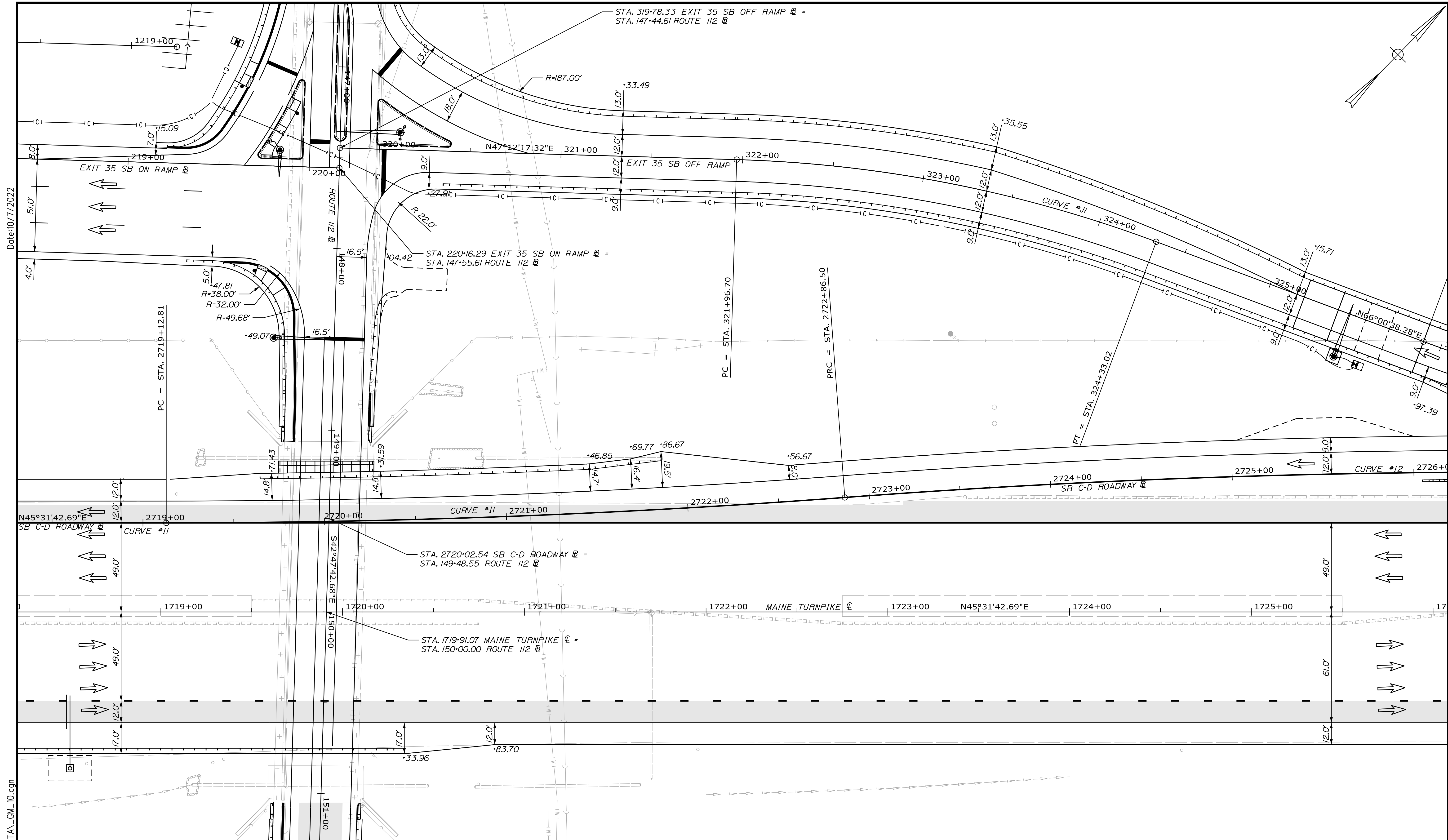
	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: GM-10

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Date: 10/17/2022

Filename: ...100\HIGHWAY\AMSTA\GM\_10.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

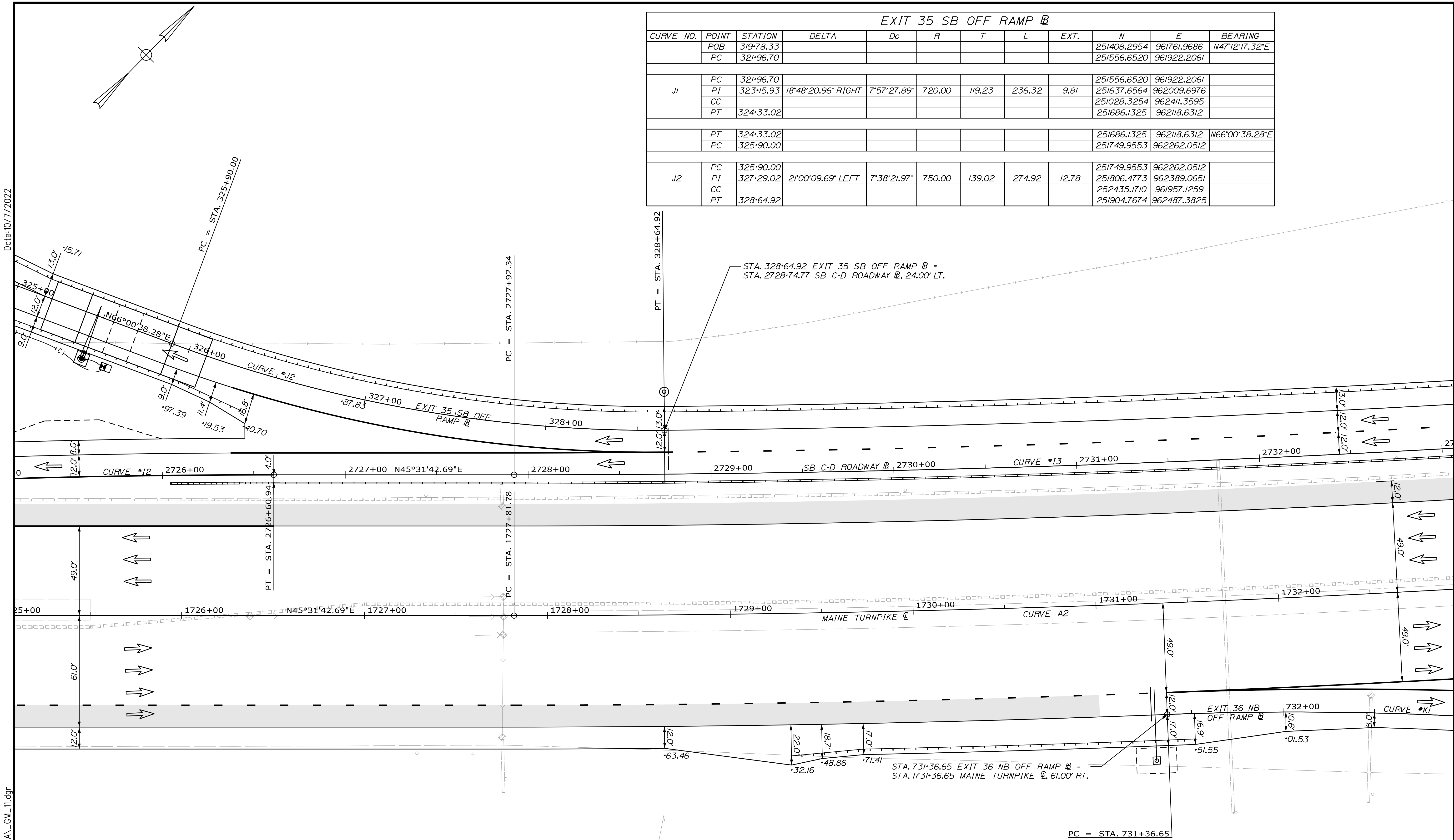
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

GEOMETRIC PLAN 10

SHEET NUMBER: GM-11  
167 OF 735

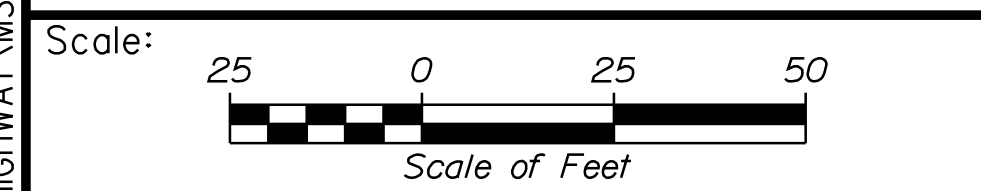
CONTRACT: 2022.07

EXIT 35 SB OFF RAMP B											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	319+78.33							251408.2954	961761.9686	N47°12'17.32"E
	PC	321+96.70							251556.6520	961922.2061	
J1	PC	321+96.70							251556.6520	961922.2061	
	PI	323+15.93	18°48'20.96" RIGHT	7°57'27.89"	720.00	119.23	236.32	9.81	251637.6564	962009.6976	
	CC								251028.3254	962411.3595	
	PT	324+33.02							251686.1325	962118.6312	
	PT	324+33.02							251686.1325	962118.6312	N66°00'38.28"E
	PC	325+90.00							251749.9553	962262.0512	
J2	PC	325+90.00							251749.9553	962262.0512	
	PI	327+29.02	2°00'09.69" LEFT	7°38'21.97"	750.00	139.02	274.92	12.78	251806.4773	962389.0651	
	CC								252435.1710	961957.1259	
	PT	328+64.92							251904.7674	962487.3825	



Date: 10/17/2022

Filename: ...100\HIGHWAY\MSTA\GM\_11.dgn



No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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 PORTLAND, ME 04102  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

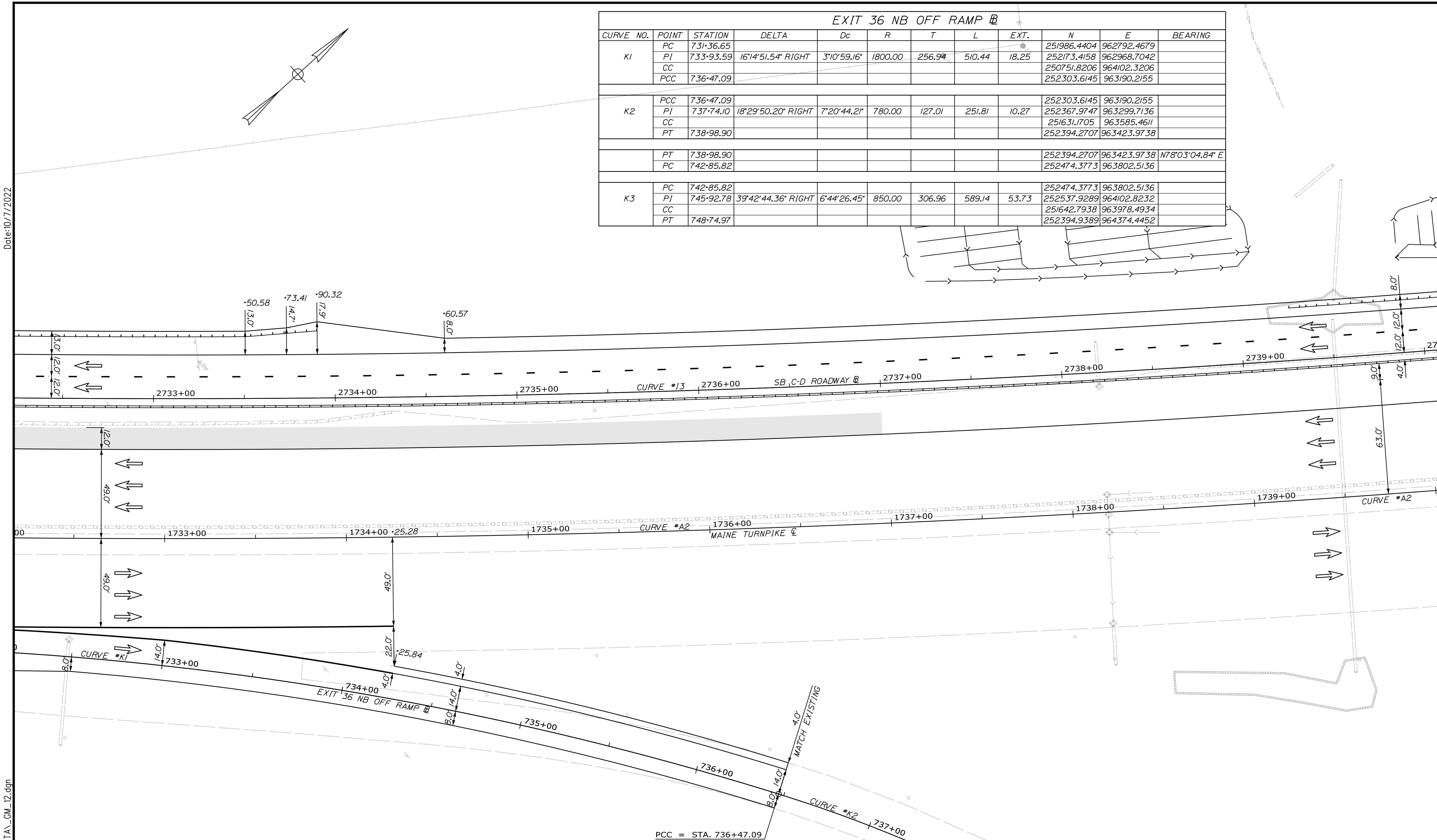
GEOMETRIC PLAN 11

SHEET NUMBER: GM-12  
 168 OF 735

CONTRACT: 2022.07



EXIT 36 NB OFF RAMP B											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
K1	PC	731-36.65							251986.4404	962792.4679	
	PI	733-93.59	16°14'51.54" RIGHT	3°10'59.16"	1800.00	256.94	510.44	18.25	252173.4158	962968.7042	
	CC								250751.8206	964102.3206	
	PCC	736-47.09							252303.6145	963190.2155	
K2	PCC	736-47.09							252303.6145	963190.2155	
	PI	737-74.10	18°29'50.20" RIGHT	7°20'44.21"	780.00	127.01	251.81	10.27	252367.9747	963299.7136	
	CC								251631.1705	963585.4611	
	PT	738-98.90							252394.2707	963423.9738	
	PT	738-98.90							252394.2707	963423.9738	N78°03'04.84" E
	PC	742-85.82							252474.3773	963802.5136	
K3	PC	742-85.82							252474.3773	963802.5136	
	PI	745-92.78	39°42'44.36" RIGHT	6°44'26.45"	850.00	306.96	589.14	53.73	252537.9289	964102.8232	
	CC								251642.7938	963978.4934	
	PT	748-74.97							252394.9389	964374.4452	



Date: 10/7/2022

Filename: ...:\00\HIGHWAY\MSTA\GM\_12.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

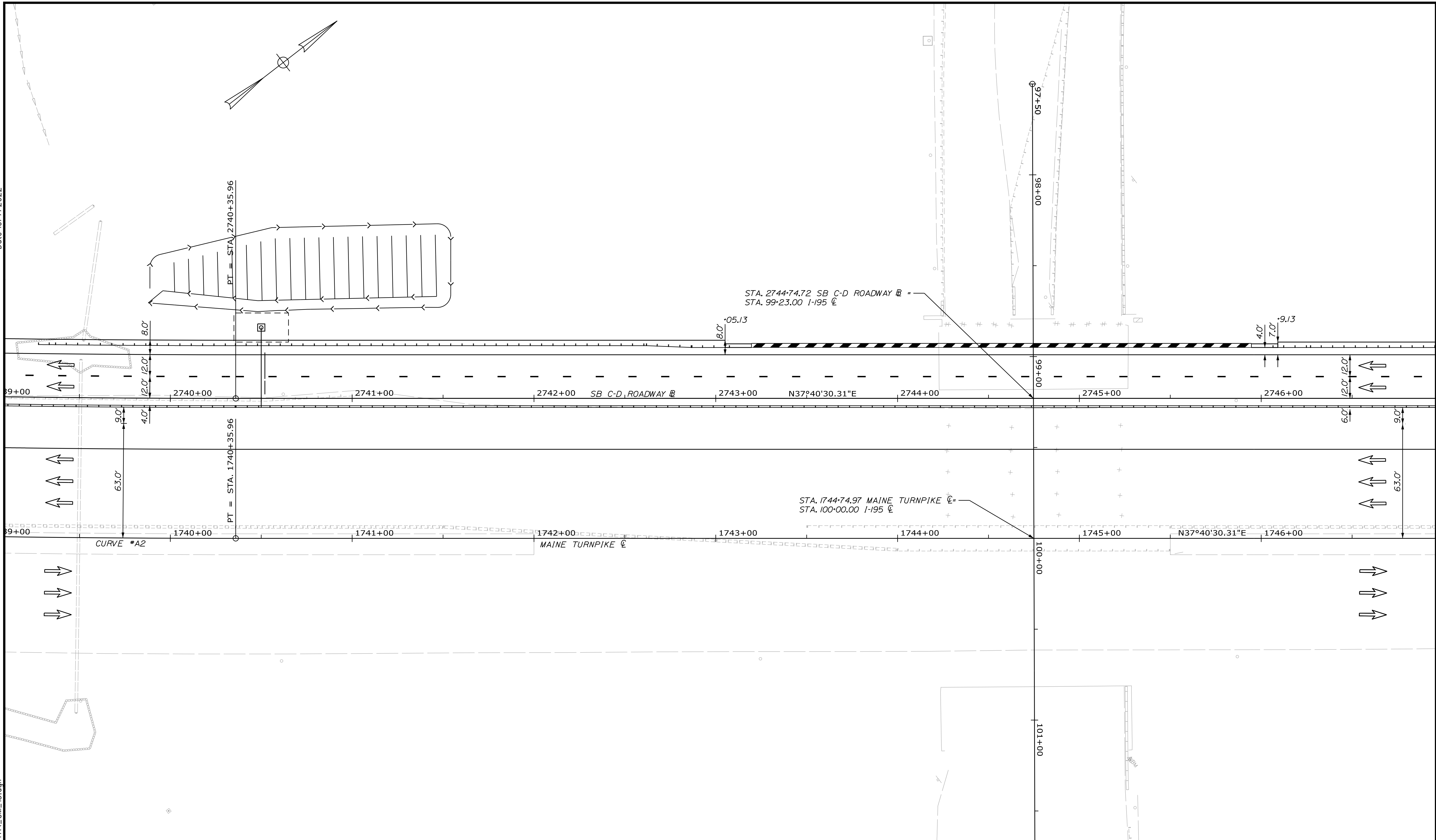
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 12

SHEET NUMBER: GM-13  
 169 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\GM\_13.dgn



Scale: Scale of Feet


No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

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## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 13

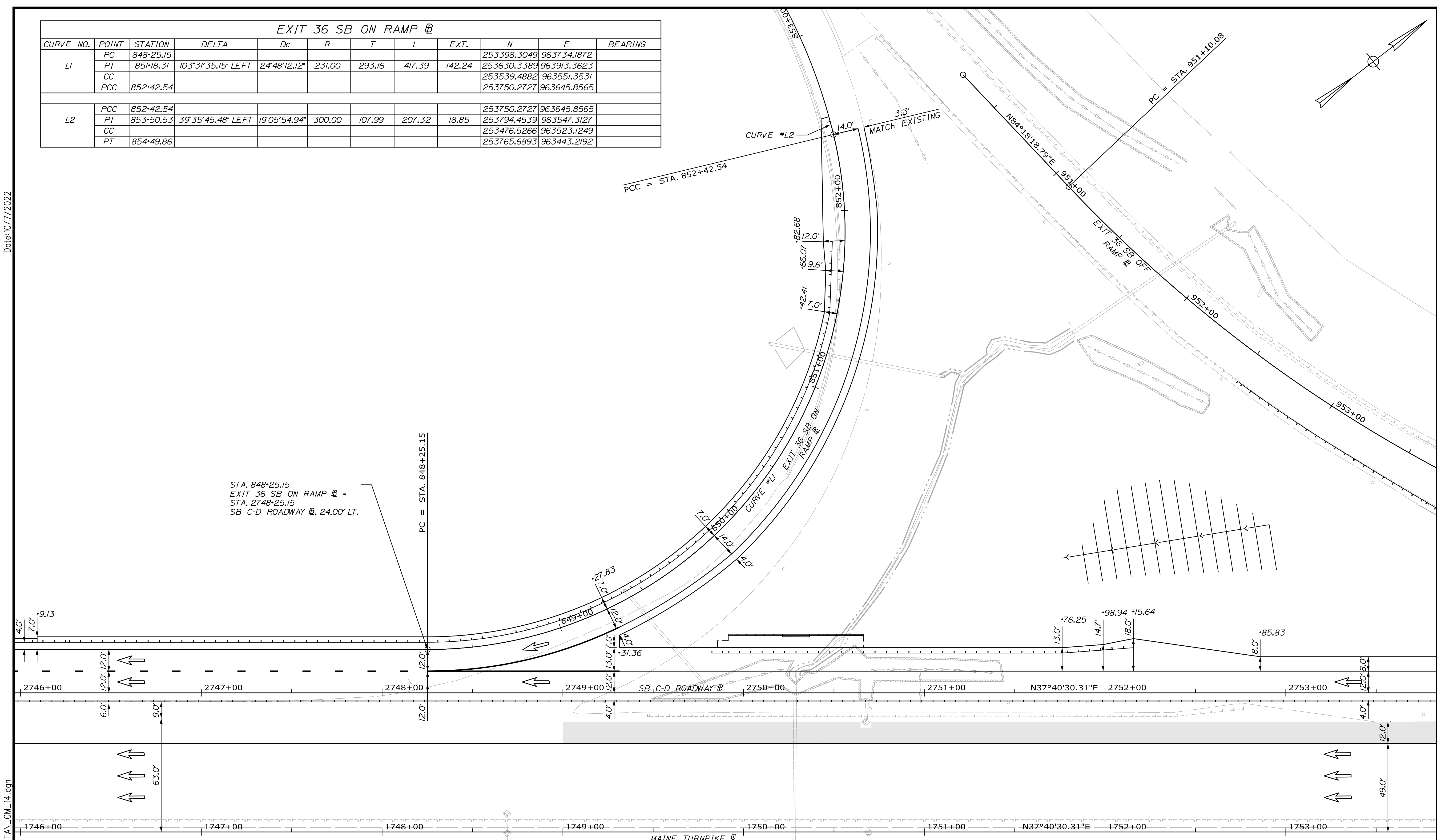
SHEET NUMBER: GM-14  
 170 OF 735

CONTRACT: 2022.07

EXIT 36 SB ON RAMP											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
L1	PC	848+25.15							253398.3049	963734.1872	
	PI	851+18.31	103°31'35.15" LEFT	24°48'12.12"	231.00	293.16	417.39	142.24	253630.3389	963913.3623	
	CC								253539.4882	963551.3531	
	PCC	852+42.54							253750.2727	963645.8565	
L2	PCC	852+42.54							253750.2727	963645.8565	
	PI	853+50.53	39°35'45.48" LEFT	19°05'54.94"	300.00	107.99	207.32	18.85	253794.4539	963547.3127	
	CC								253476.5266	963523.1249	
	PT	854+49.86							253765.6893	963443.2192	

Date: 10/7/2022

Filename: ...000.HIGHWAY.MSTA\_GM\_14.dgn



Scale: 1" = 25'

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

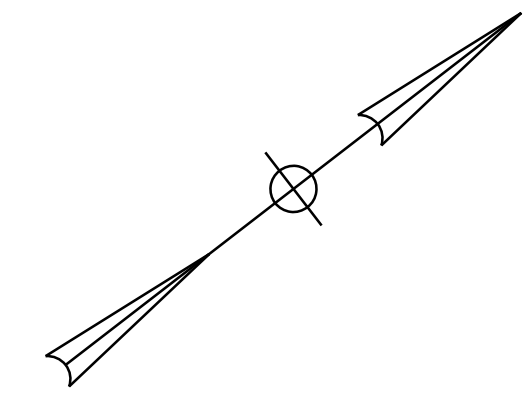
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 14

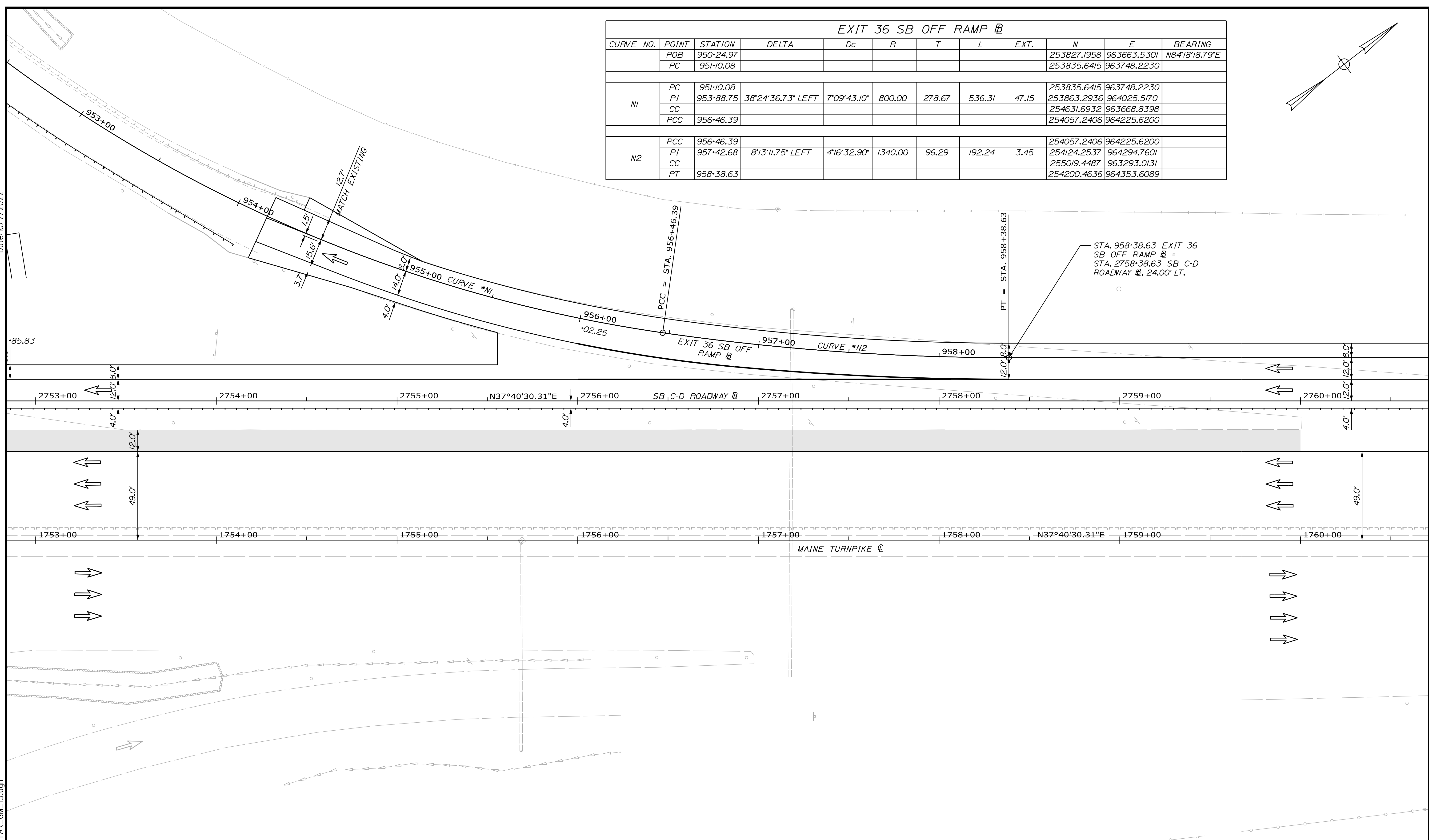
SHEET NUMBER: GM-15  
 171 OF 735

CONTRACT: 2022.07

EXIT 36 SB OFF RAMP											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	950+24.97							253827.1958	963663.5301	N84°18'18.79"E
	PC	951+10.08							253835.6415	963748.2230	
N1	PC	951+10.08							253835.6415	963748.2230	
	PI	953+88.75	38°24'36.73" LEFT	7°09'43.10"	800.00	278.67	536.31	47.15	253863.2936	964025.5170	
	CC								254631.6932	963668.8398	
	PCC	956+46.39							254057.2406	964225.6200	
N2	PCC	956+46.39							254057.2406	964225.6200	
	PI	957+42.68	8°13'11.75" LEFT	4°16'32.90"	1340.00	96.29	192.24	3.45	254124.2537	964294.7601	
	CC								255019.4487	963293.0131	
	PT	958+38.63							254200.4636	964353.6089	



Date: 10/17/2022



Scale: 1" = 25'

No.	Revision	By	Date

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	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

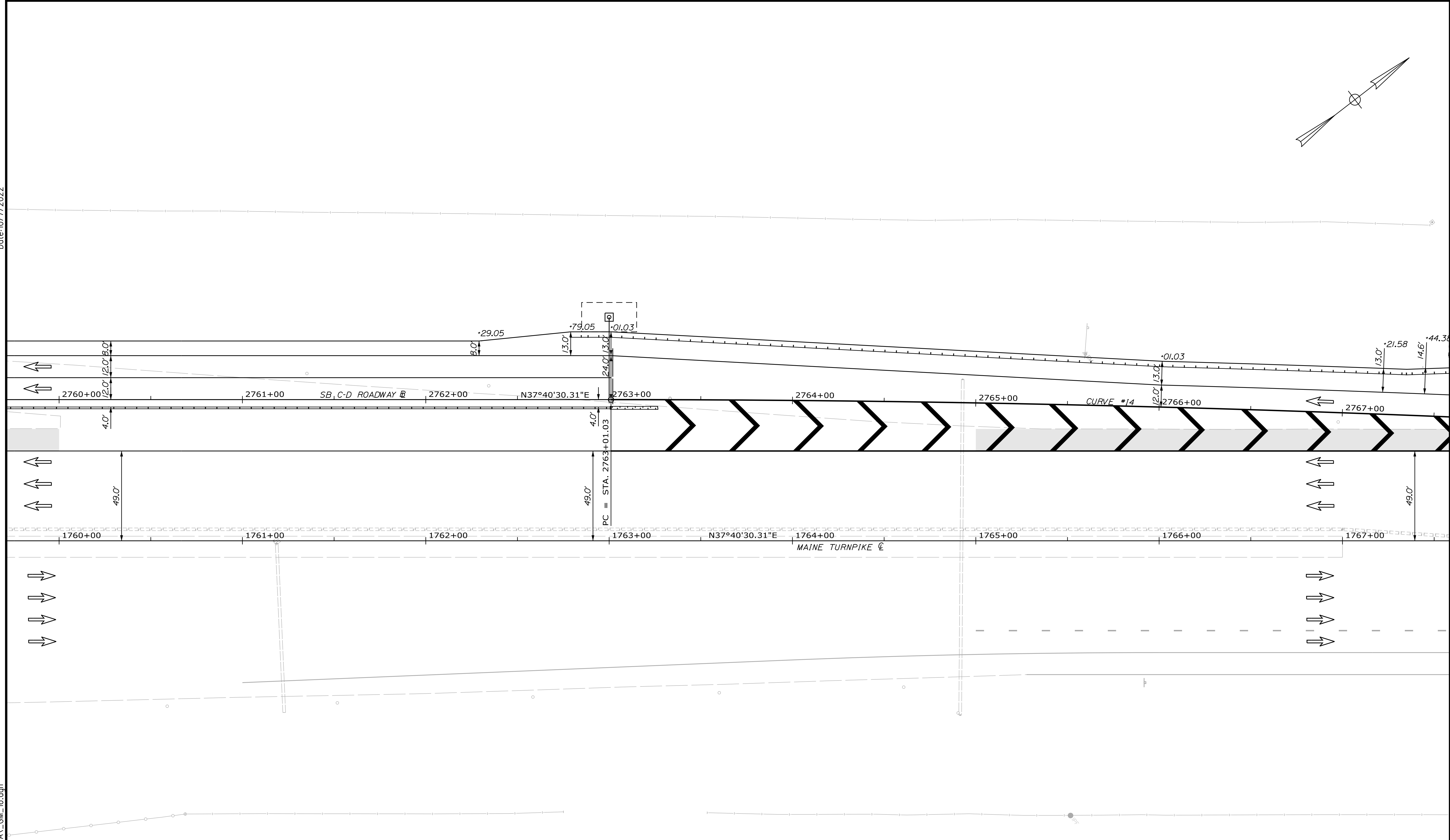
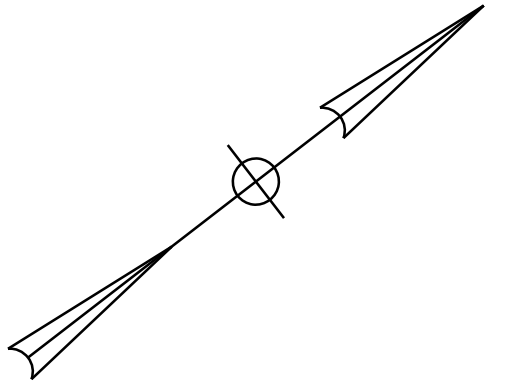
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 15

SHEET NUMBER: GM-16  
 172 OF 735

CONTRACT: 2022.07

Filename: ...00\HIGHWAY\MSTA\GM\_15.dgn

Date: 10/7/2022



Filename: ...:\00\HIGHWAY\MSTA\GM\_16.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

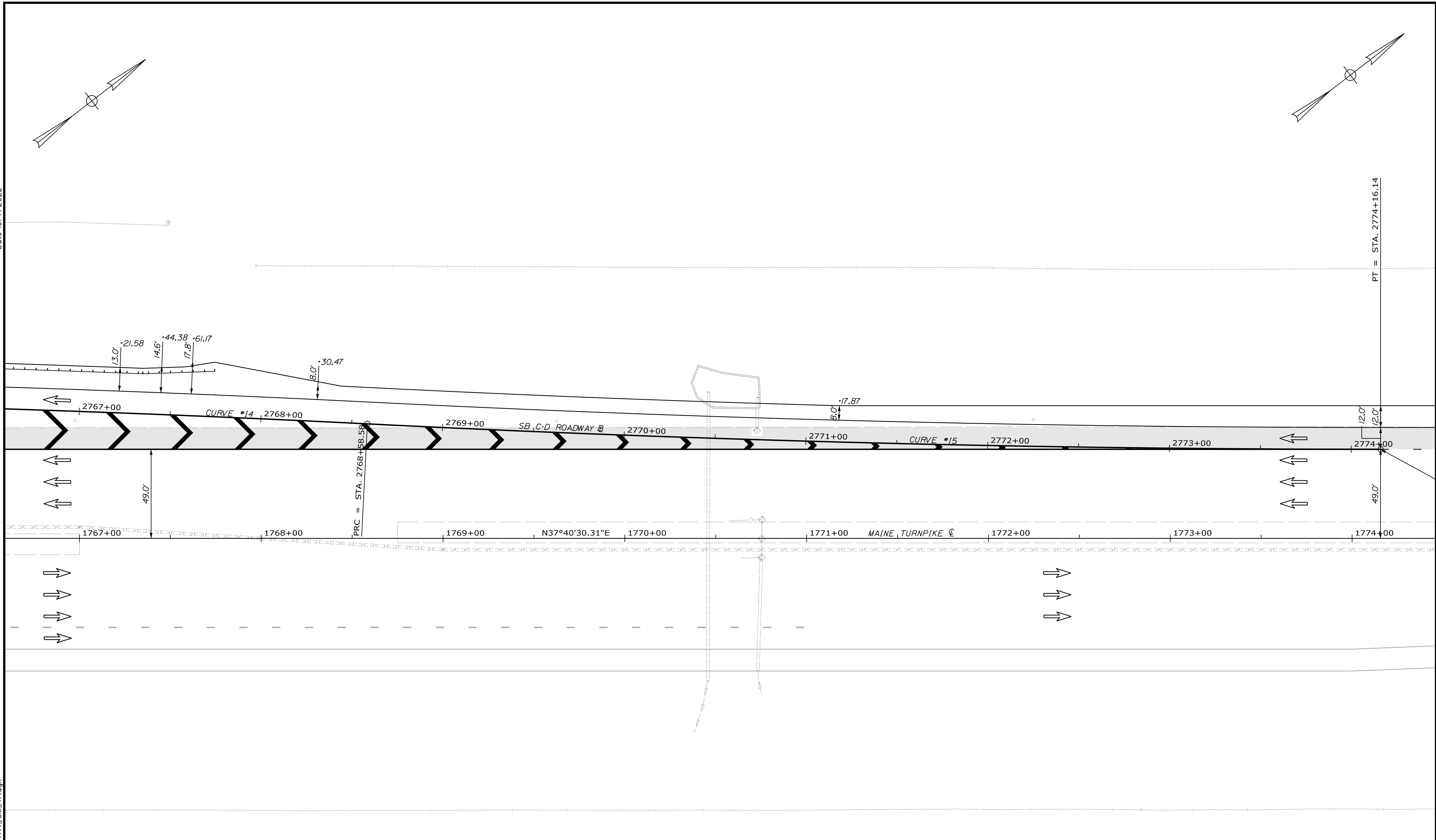
GEOMETRIC PLAN 16

SHEET NUMBER: GM-17  
173 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ... \00\HIGHWAY\MSTA\GM\_17.dgn



Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
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 FAX (207) 883-3376

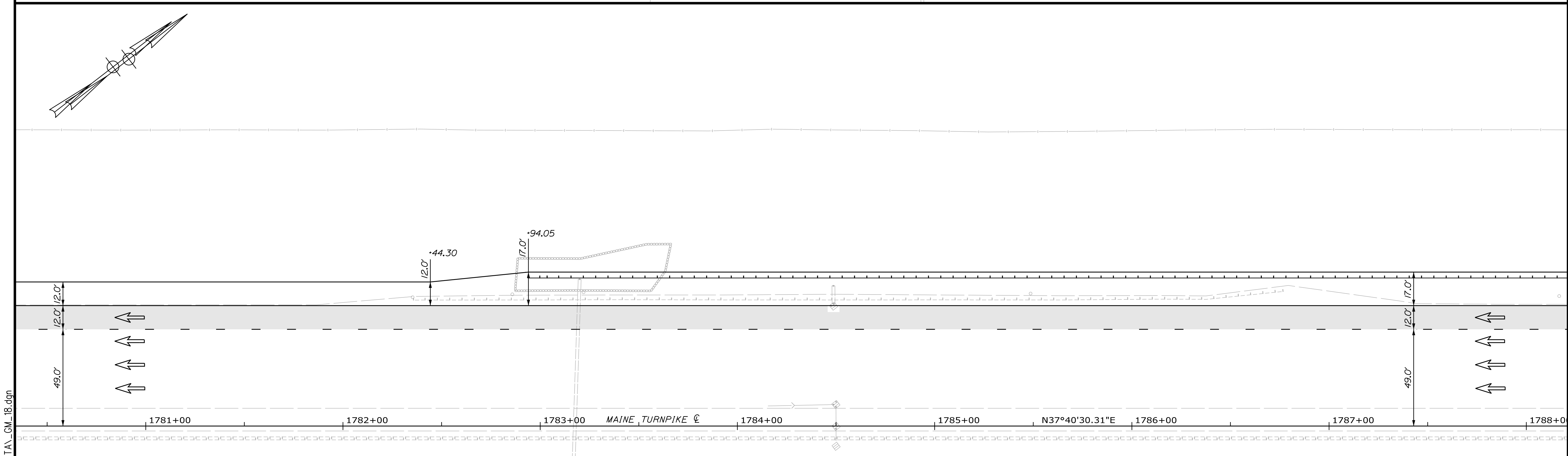
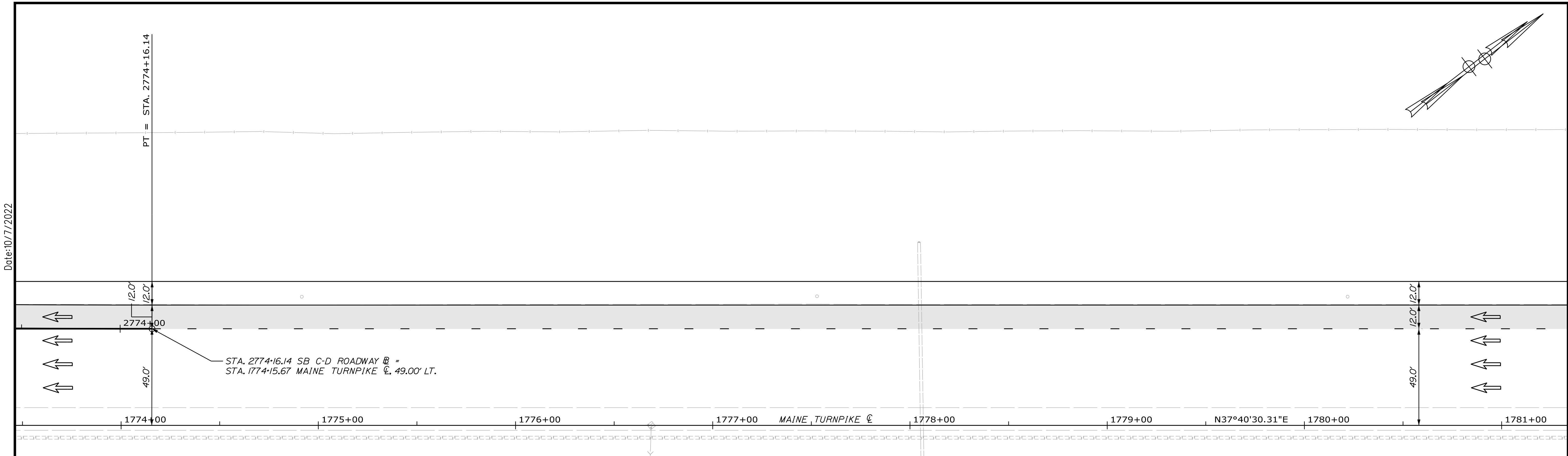
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

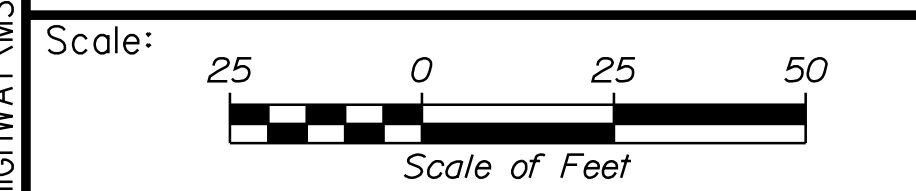
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 17

SHEET NUMBER: GP-18  
 CONTRACT: 2022.07  
 174 OF 735

Date: 10/7/2022



Filename: ... \00\HIGHWAY\MTA\_GM\_18.dgn



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**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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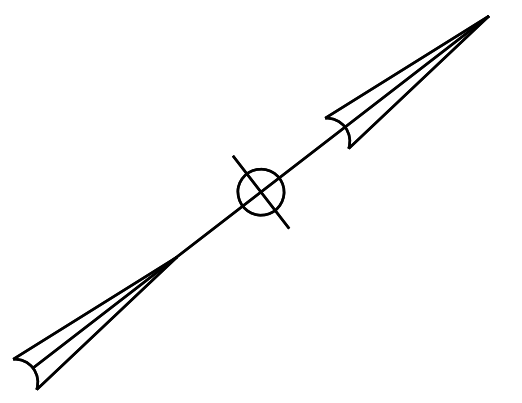
**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

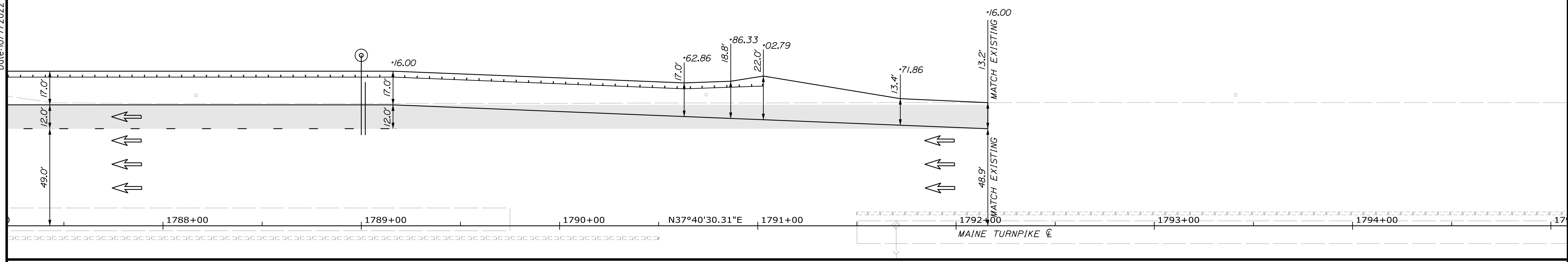
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 18

SHEET NUMBER: GM-19  
 175 OF 735

CONTRACT: 2022.07



Date: 10/17/2022



Filename: ...:\00\HIGHWAY\MSTA\GM\_19.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

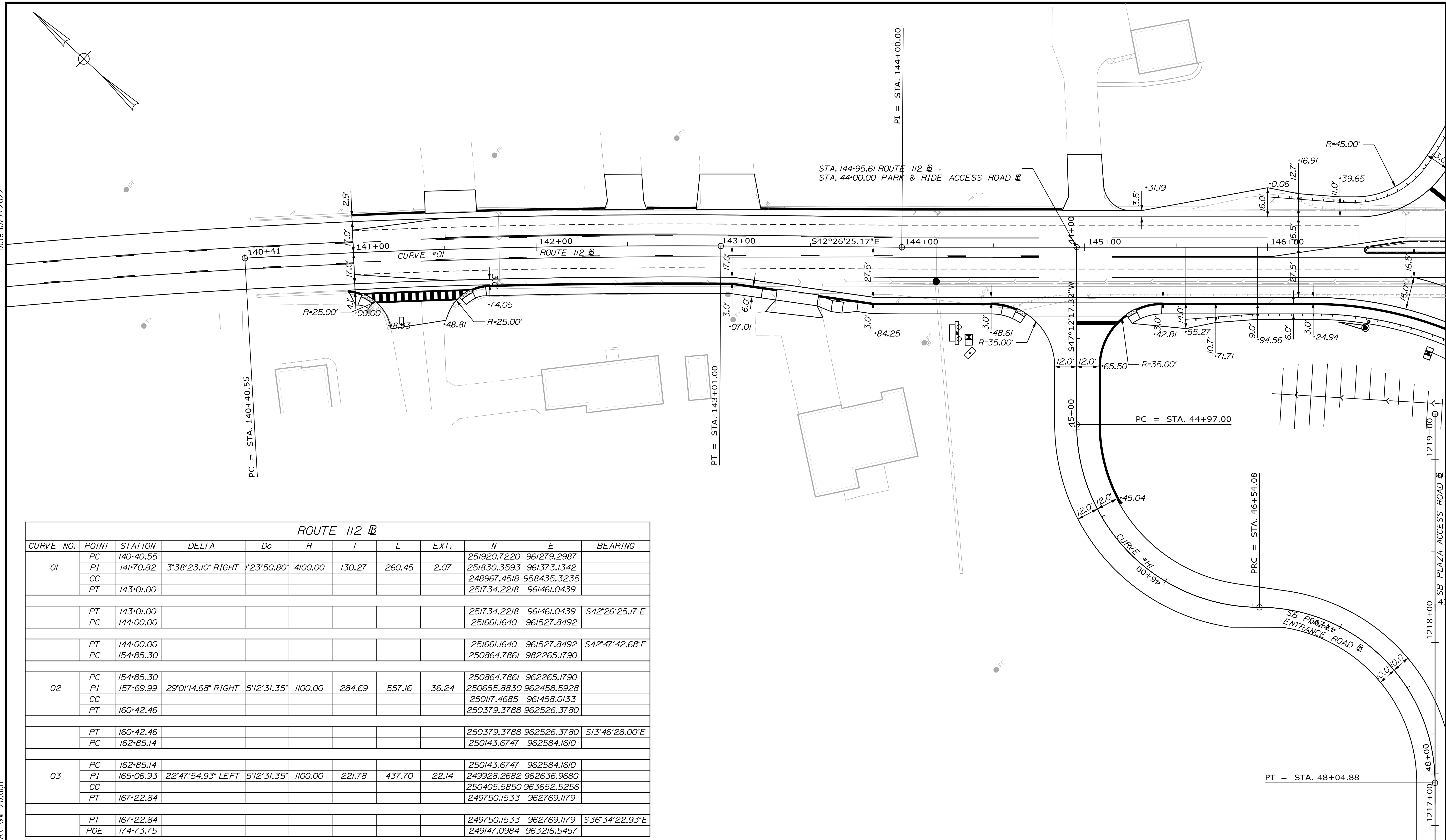
GEOMETRIC PLAN 19

SHEET NUMBER: GM-20  
 CONTRACT: 2022.07  
 176 OF 735

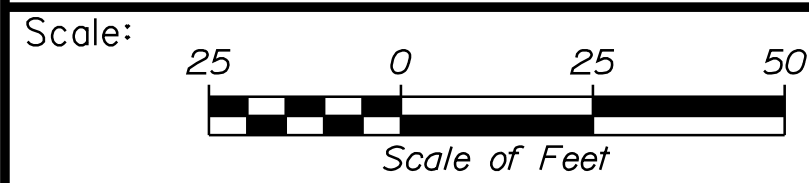


Date: 10/17/2022

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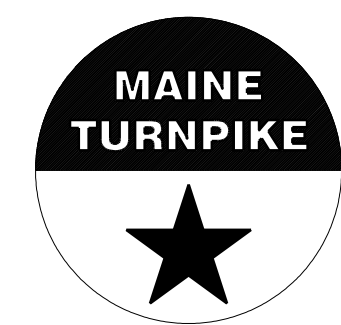
ROUTE 112 B											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
01	PC	140+40.55							251920.7220	961279.2987	
	PI	141+70.82	3°38'23.10" RIGHT	123°50.80'	4100.00	130.27	260.45	2.07	251830.3593	961373.1342	
	CC								248967.4518	958435.3235	
	PT	143+01.00							251734.2218	961461.0439	
	PT	143+01.00							251734.2218	961461.0439	S42°26'25.17"E
	PC	144+00.00							251661.1640	961527.8492	
	PT	144+00.00							251661.1640	961527.8492	S42°47'42.68"E
	PC	154+85.30							250864.7861	982265.1790	
02	PC	154+85.30							250864.7861	962265.1790	
	PI	157+69.99	29°01'14.68" RIGHT	5°12'31.35"	1100.00	284.69	557.16	36.24	250655.8830	962458.5928	
	CC								250117.4685	961458.0133	
	PT	160+42.46							250379.3788	962526.3780	
	PT	160+42.46							250379.3788	962526.3780	S13°46'28.00"E
	PC	162+85.14							250143.6747	962584.1610	
03	PC	162+85.14							250143.6747	962584.1610	
	PI	165+06.93	22°47'54.93" LEFT	5°12'31.35"	1100.00	221.78	437.70	22.14	249928.2682	962636.9680	
	CC								250405.5850	963652.5256	
	PT	167+22.84							249750.1533	962769.1179	
	PT	167+22.84							249750.1533	962769.1179	S36°34'22.93"E
	POE	174+73.75							249147.0984	963216.5457	



Designed by:



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THE GOLD STAR  
 MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

GEOMETRIC PLAN 20

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

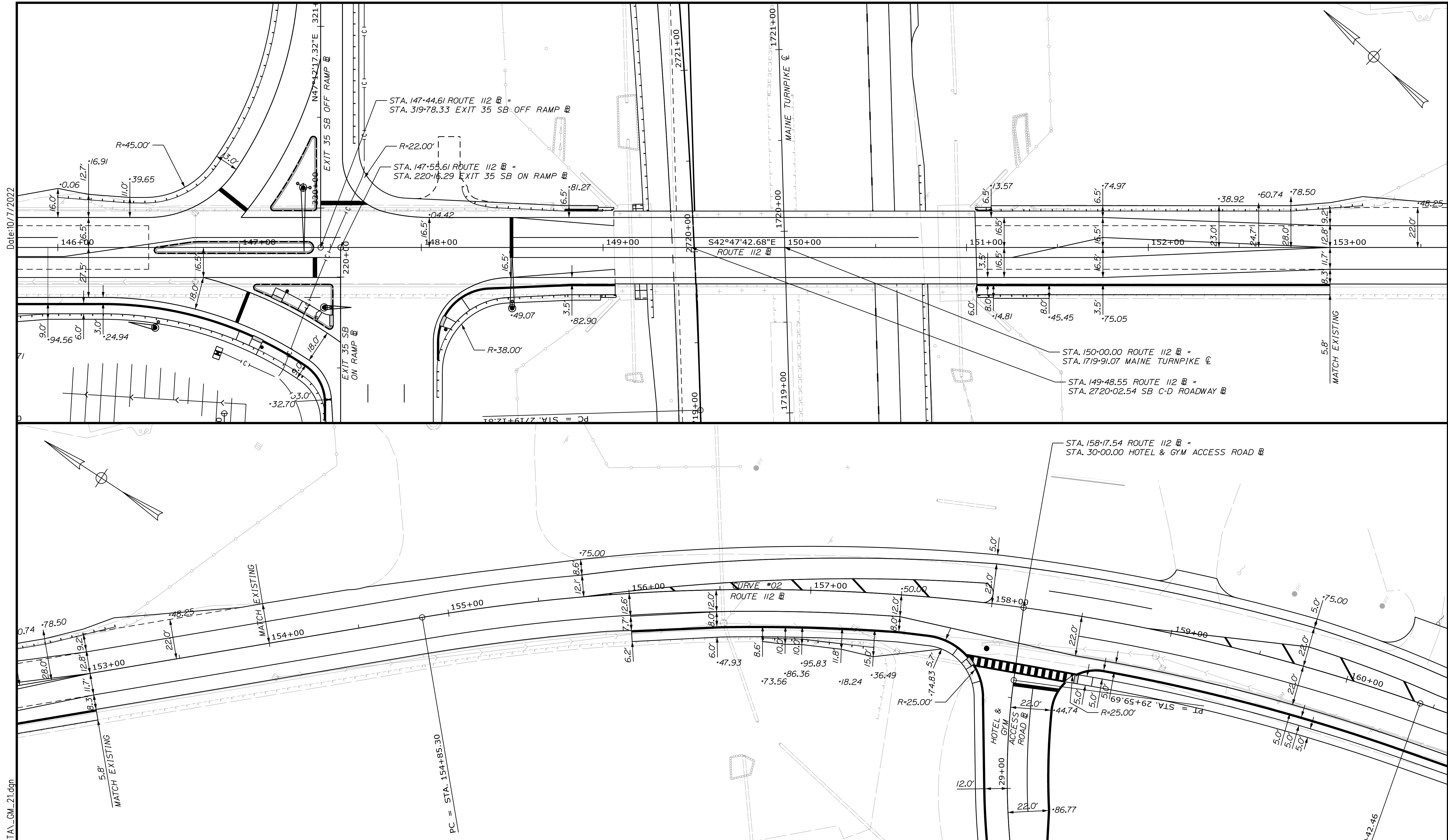
	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: GM-21

177 OF 735



Date: 10/7/2022

Filename: ...00.HIGHWAY\MSTA\GM\_21.dgn

Scale: 1" = 25'

No.	Revision	By	Date

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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

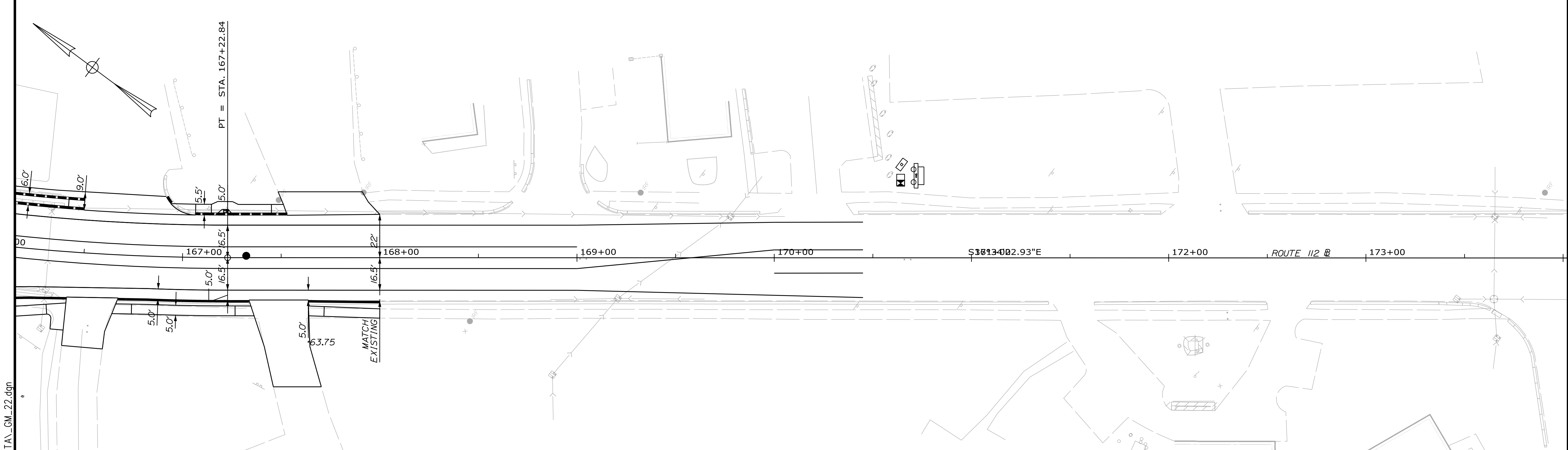
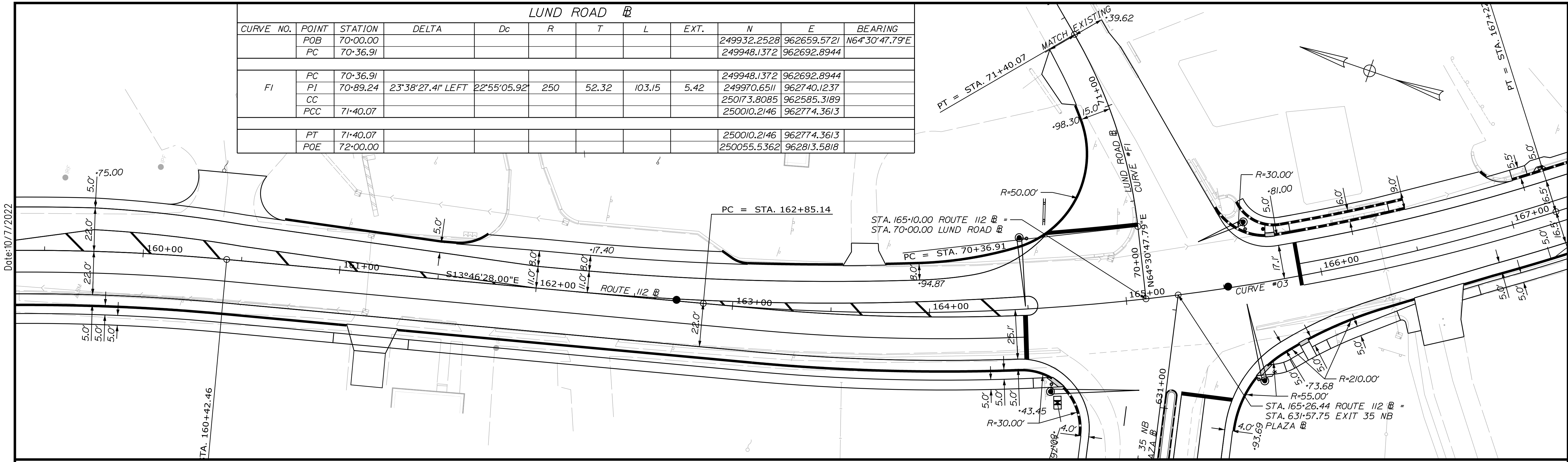
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 GEOMETRIC PLAN 21

SHEET NUMBER: GM-22  
 178 OF 735

CONTRACT: 2022.07

**LUND ROAD**

CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	70+00.00							249932.2528	962659.5721	N64°30'47.79"E
	PC	70+36.91							249948.1372	962692.8944	
FI	PC	70+36.91							249948.1372	962692.8944	
	PI	70+89.24	23°38'27.4" LEFT	22°55'05.92"	250	52.32	103.15	5.42	249970.6511	962740.1237	
	CC								250173.8085	962585.3189	
	PCC	71+40.07							250010.2146	962774.3613	
	PT	71+40.07							250010.2146	962774.3613	
	POE	72+00.00							250055.5362	962813.5818	



Scale: 1" = 25'

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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 PORTLAND, ME 04102  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

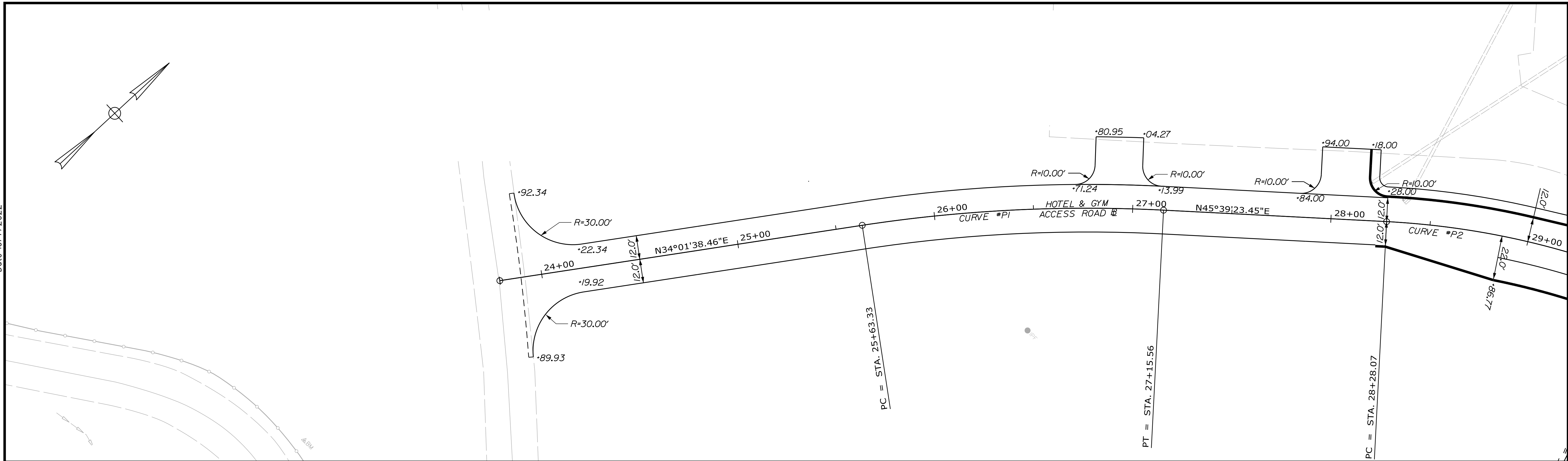
GEOMETRIC PLAN 22

SHEET NUMBER: GM-23  
 179 OF 735

CONTRACT: 2022.07

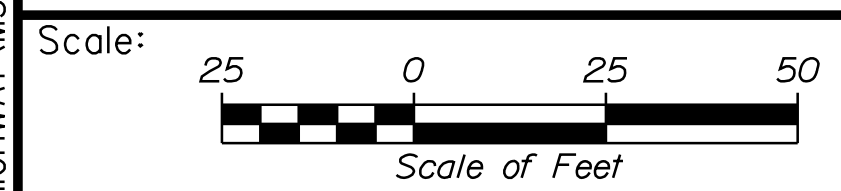
Date: 10/7/2022  
 Filename: ...:\00\HIGHWAY\INSTA\GM\_22.dgn

Date: 10/17/2022



HOTEL & GYM ACCESS ROAD											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	23+78.66							250150.1384	962025.9539	N34°01'38.46"E
	PC	25+63.33							250303.1863	962129.2923	
P1	PC	25+63.33							250303.1863	962129.2923	
	PI	26+39.71	11°37'44.99" RIGHT	7°38'21.97"	750.00	76.38	152.23	3.88	250366.4837	962172.0309	
	CC								249883.4949	962750.8702	
	PT	27+15.56							250419.8667	962226.6515	
	PT	27+15.56							250419.8667	962226.6515	N45°39'23.45"E
	PC	28+28.07							250498.5078	962307.1158	
P2	PC	28+28.07							250498.5078	962307.1158	
	PI	28+94.48	18°51'13.40" RIGHT	14°19'26.20"	400.00	66.41	131.62	5.48	250544.9272	962354.6113	
	CC								250212.4428	962586.6991	
	PT	29+59.69							250573.5077	962414.5591	
	PT	29+59.69							250573.5077	962414.5591	N64°30'36.85"E
	POE	30+00.00							250590.8533	962450.9417	

Filename: ...:\00\HIGHWAY\MSTA\GM\_23.dgn



Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

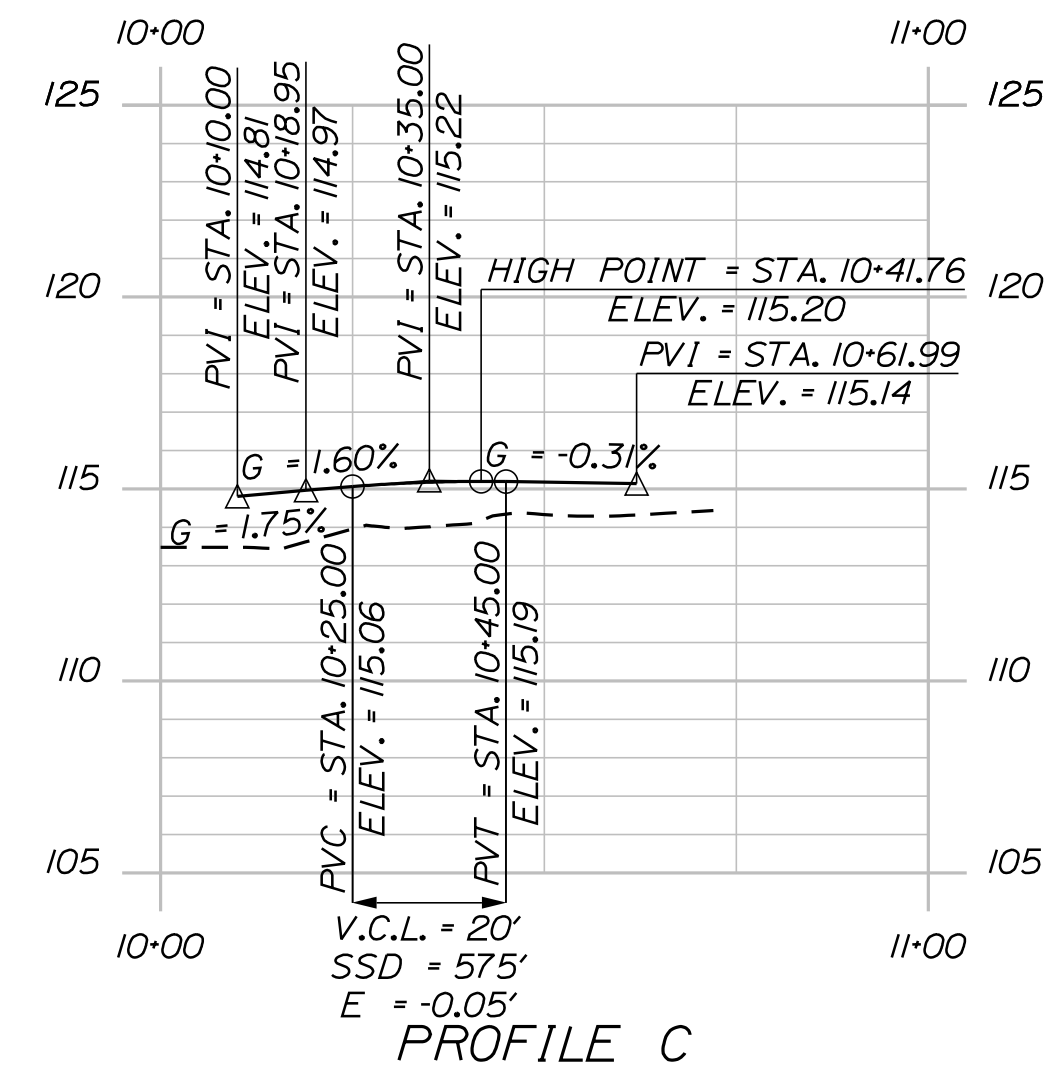
GEOMETRIC PLAN 23

SHEET NUMBER: GM-24  
 180 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ... \NB\_Intersection\_Grading.dgn



PROFILE C

STA. 10+71.99 PROFILE C =  
STA. 164+34.59 ROUTE 112

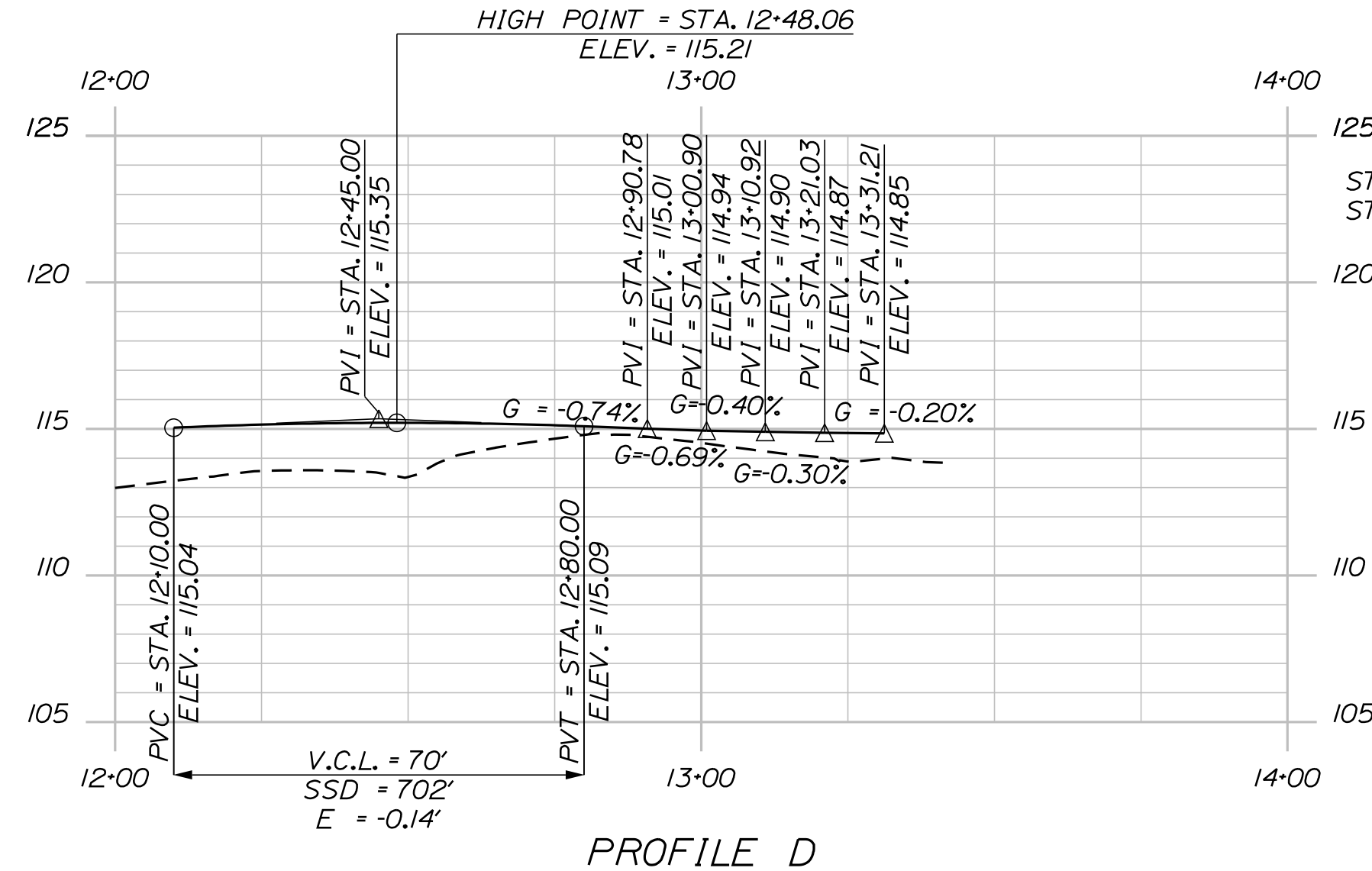
PT = STA. 10+71.99  
PRC = STA. 10+61.99  
RIM = 115.19'

STA. 10+00.00 PROFILE C =  
STA. 630+70.92 EXIT 35 NB COMBINED PLAZA, 40.00' LT.

PC = STA. 10+10.00  
RIM = 113.23'

STA. 12+00.00 PROFILE D =  
STA. 630+82.08 EXIT 35 NB COMBINED PLAZA

PC = STA. 12+10.00



PROFILE D

STA. 13+00.00 PROFILE D =  
STA. 166+12.34 ROUTE 112

PT = STA. 13+14.81  
RIM = 114.83'

PROFILE C

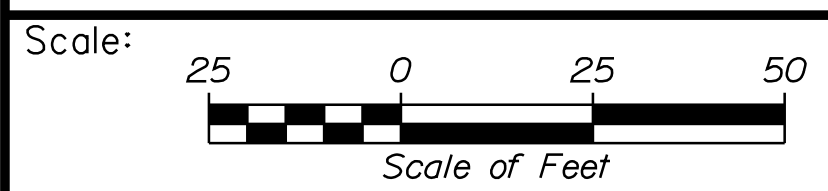
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	10+00.00							249938.8110	962573.5724	N78°10'10.96"E
	PC	10+10.00							249940.8611	962583.3600	
S1	PC	10+10.00							249940.8611	962583.3600	
	PI	10+45.30	99°17'03.88" LEFT	90°59'09.35"	30.00	35.30	51.99	16.33	249948.0986	962617.9127	
	CC								249970.2239	962577.2096	
	PCC	10+61.99							249981.0310	962605.1955	
S2	PCC	10+61.99							249981.0310	962605.1955	
	PI	10+66.99	0°32'22.04" RIGHT	5°23'40.43"	1062.10	5.00	10.00	0.01	249985.6953	962603.3943	
	CC								250363.6386	963595.9892	
	PT	10+71.99							249990.3764	962601.6371	

PROFILE D

CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	12+00.00							249866.8771	9962600.8590	N78°10'10.70"E
	PC	12+10.00							249868.9272	962610.6466	
T1	PC	12+10.00							249868.9272	962610.6466	
	PI	12+36.22	50°58'25.55" RIGHT	10°41'02.692"	55.00	26.22	48.93	5.93	249874.3023	962636.3079	
	CC								249815.0955	962621.9224	
	PCC	12+58.93							249857.7517	962656.6419	
T2	PCC	12+58.93							249857.7517	962656.6419	
	PI	12+87.04	15°14'44.11" RIGHT	27°17'01.34"	210.00	28.11	55.88		249840.0101	962678.4393	
	CC								249694.8824	962524.0766	
	PT	13+14.81							249817.1610	962694.8043	
	POE	13+41.21							249817.1610	962694.8043	S35°36'39.63"E

CURB ALIGNMENT E

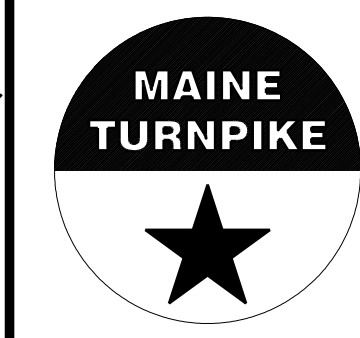
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
U1	PC	15+00.00							250046.7381	962638.6063	
	PI	15+25.41	1°28'46.99" LEFT	28°38'52.40"	200.00	25.41	50.54	1.61	250022.9934	962647.6462	
	CC								250117.8984	962825.5186	
	PCC	15+50.54							250002.2633	962662.3360	
U2	PCC	15+50.54							250002.2633	962662.3360	
	PI	16+04.38	9°13'59.70" LEFT	11°43'52.96"	50.00	53.84	82.23	23.47	249958.3364	962693.4637	
	PCC	16+32.78							250031.1721	962703.1317	
U3	PCC	16+32.78							249992.6217	962734.9730	
	PI	16+36.64	0°52'58.35" LEFT	24°22'52.26"	235.00	3.86	7.72	0.03	249995.0809	962737.9504	
	PT	16+40.50							250173.8085	962585.3189	



Designed by:



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PORTLAND, ME 04102  
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FAX (207) 883-3376



THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
NB INTERSECTION GRADING PLAN

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

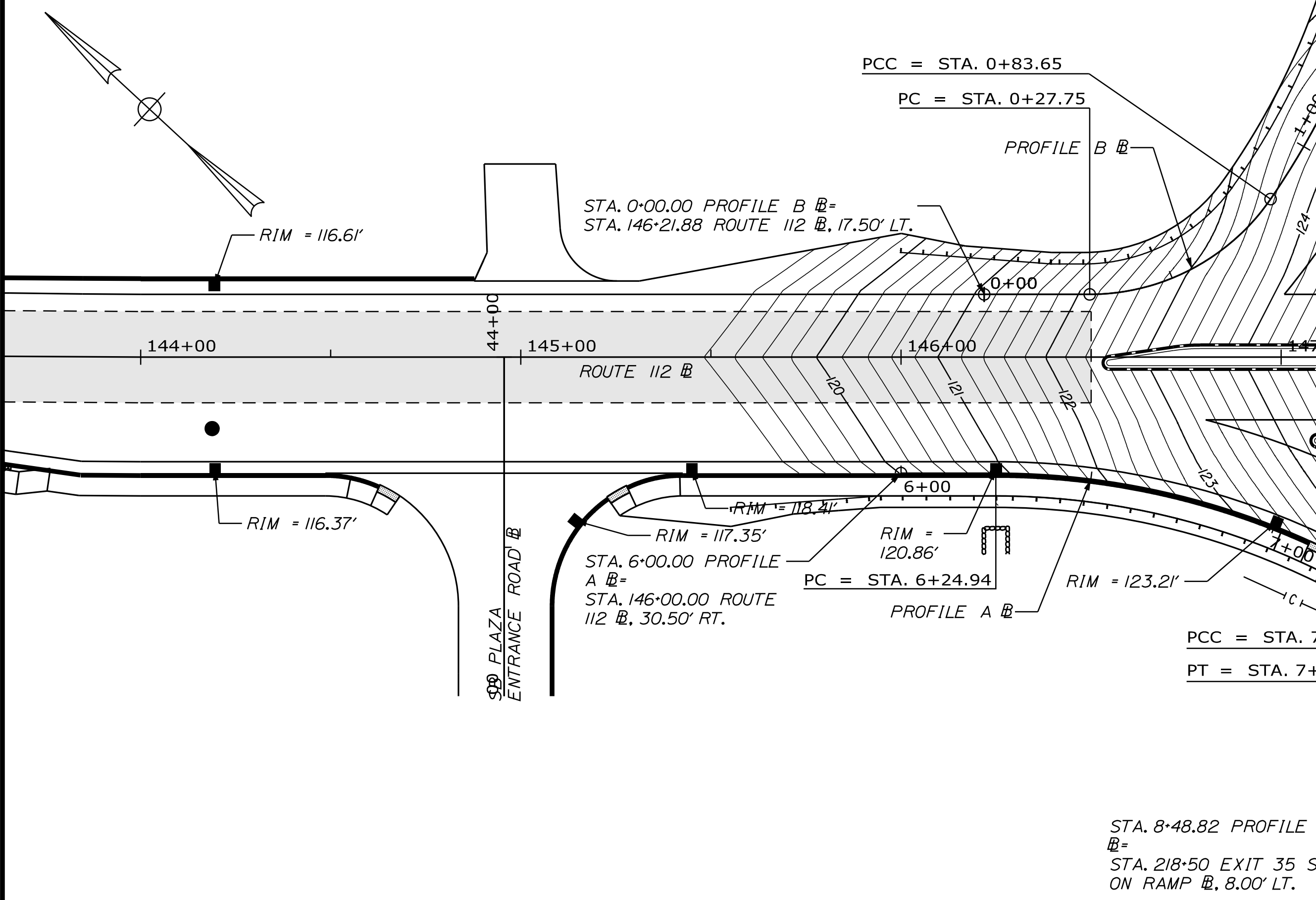
CONTRACT: 2022.07

SHEET NUMBER: GP-22  
181 OF 735

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

Date: 10/17/2022

PROFILE B											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	0+00.00							251510.2408	961691.4309	S42°47'42.68"E
	PC	0+28.27							251489.4930	961710.6403	
R1	PC	0+28.27							251489.4930	961710.6403	
	PI	0+59.03	55°52'22.45" LEFT	98°47'08.98"	58.00	30.76	56.56	7.65	251466.9242	961731.5358	
	CC								251528.8971	961753.2000	
	PCC	0+84.83							251471.5595	961761.9412	
R2	PCC	0+84.83							251471.5595	961761.9412	
	PI	1+46.22	34°07'37.55" LEFT	28°38'52.40"	200.00	61.39	119.13	9.21	251480.8115	961822.6288	
	CC								251669.2751	961731.7991	
	PT	2+03.96							251522.5177	961867.6751	N47°12'17.32"E
PT	2+03.96							251522.5177	961867.6751	N47°12'17.32"E	
POE	2+67.16							251565.4575	961914.0536		



PROFILE A											
CURVE NO.	POINT	STATION	DELTA	Dc	R	T	L	EXT.	N	E	BEARING
	POB	6+00.00							251493.6855	961641.3446	S42°47'42.68"E
	PC	6+24.94							251475.3854	961658.2879	
Q1	PC	6+24.94							251475.3854	961658.2879	
	PI	6+85.94	33°55'29.26" RIGHT	28°38'52.40"	200.00	61.00	118.42	9.10	251430.6224	961699.7319	
	CC								251339.5094	961511.5305	
	PCC	7+43.36							251370.3494	961709.1385	
Q2	PCC	7+43.36							251370.3494	961709.1385	
	PI	7+56.67	56°04'29.85" RIGHT	229°10'55.87"	25.00	13.31	24.47	3.32	251357.1948	961711.1914	
	CC								251366.4944	961684.4374	
	PT	7+67.83							251348.1497	961701.4220	
PT	7+67.83							251348.1497	961701.4220	S47°12'17.32"W	
POE	8+48.82							251293.1231	961641.9887		

Scale: 1" = 25'

Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SB INTERSECTION GRADING PLAN

SHEET NUMBER: GP-22  
 182 OF 735

CONTRACT: 2022.07

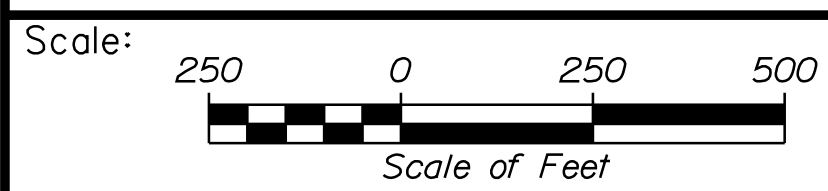
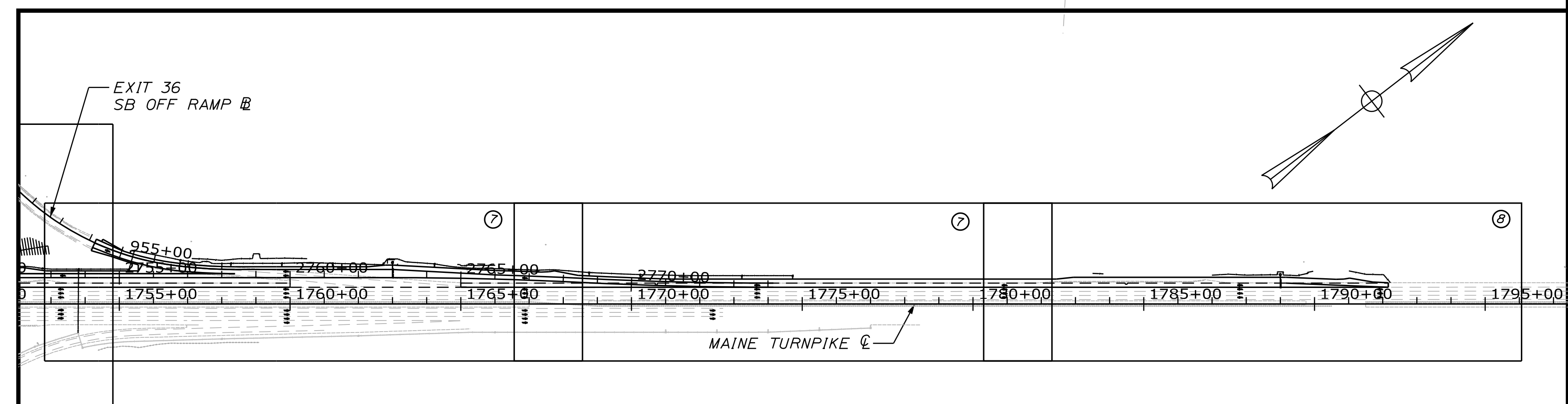
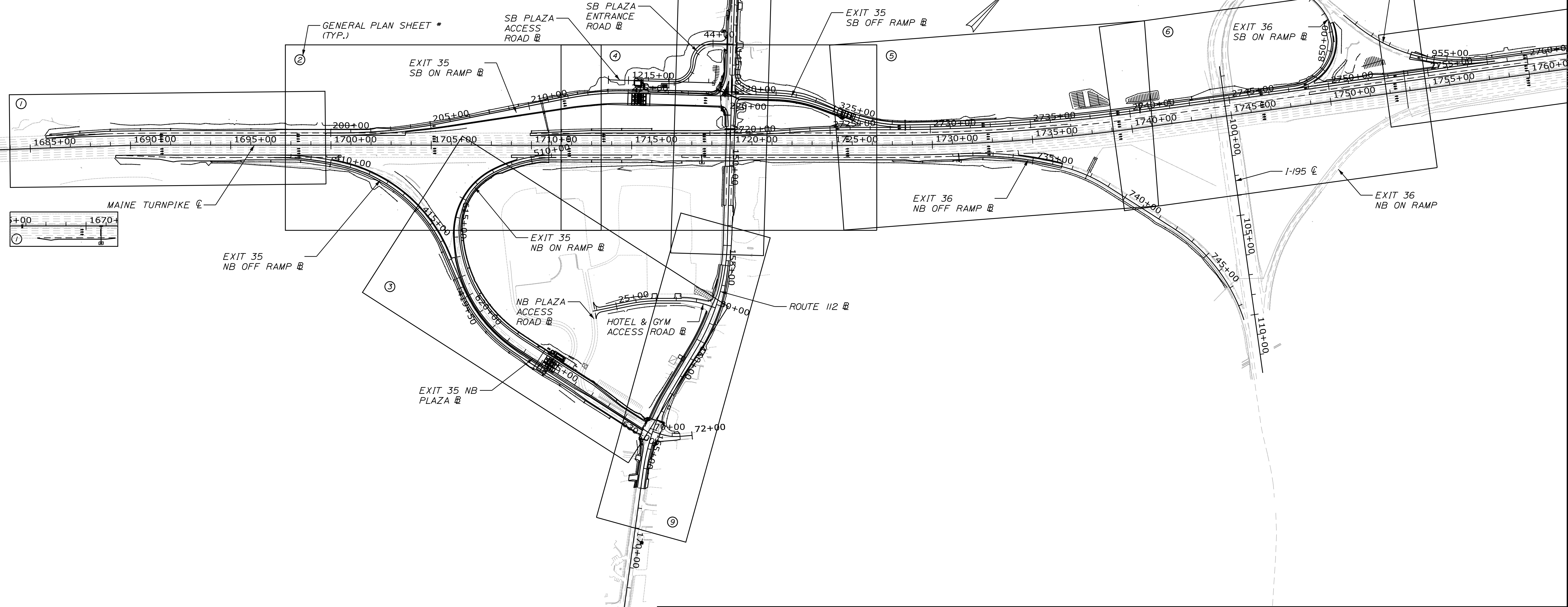
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Date: 10/7/2022

Filename: ...MSTA\_Pavement\_Index\_Sheet.dgn

### INTERCHANGE 35

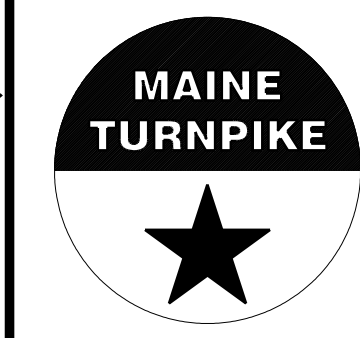
### INTERCHANGE 36



Designed by:



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 PORTLAND, ME 04102  
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## THE GOLD STAR MEMORIAL HIGHWAY

## INTERCHANGE IMPROVEMENTS SACO (EXITS 35 & 36) PAVEMENT INDEX PLAN

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

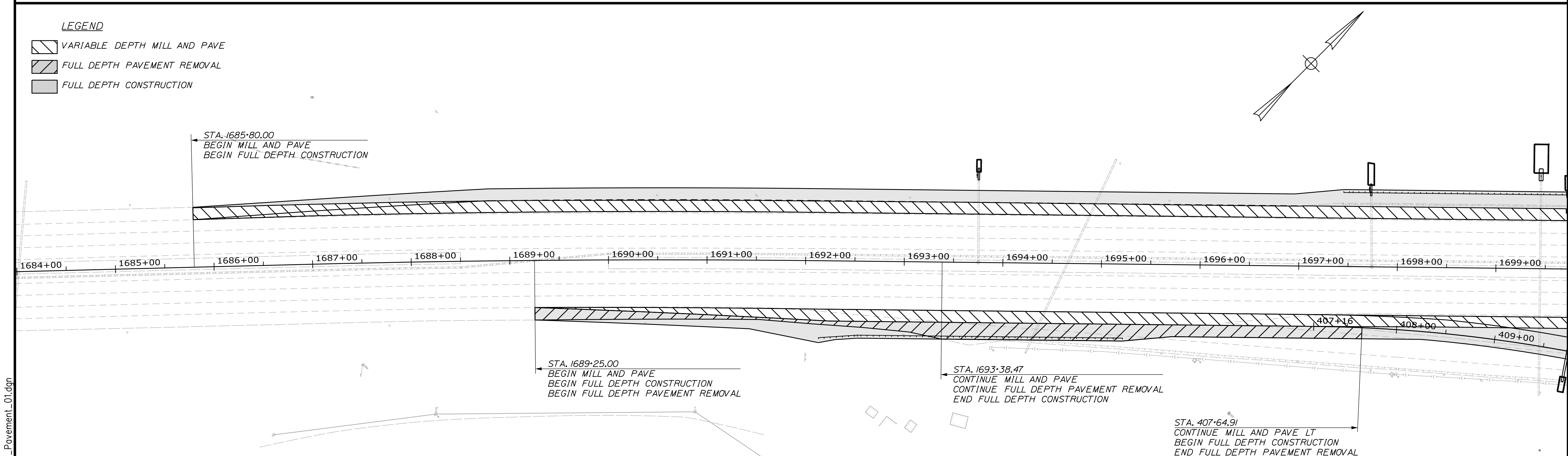
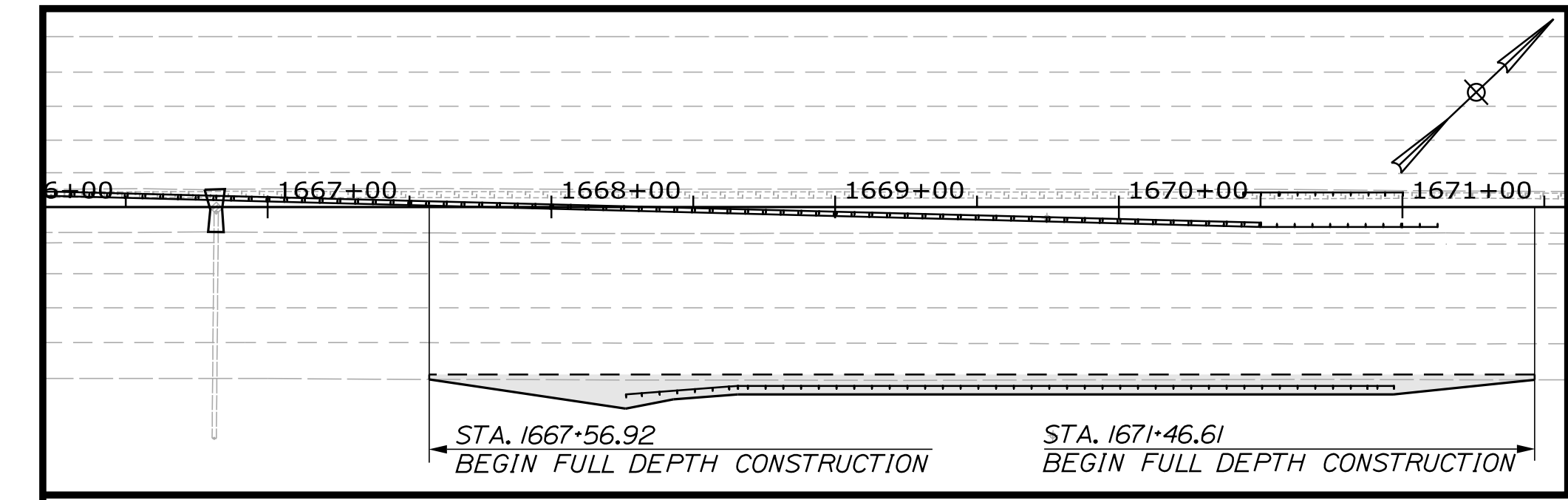
	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: PP-01  
 183 OF 735

Date: 10/17/2022



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
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FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXIT 35 & 36)

PAVEMENT PLAN 1




SHEET NUMBER: PP-02  
184 OF 735

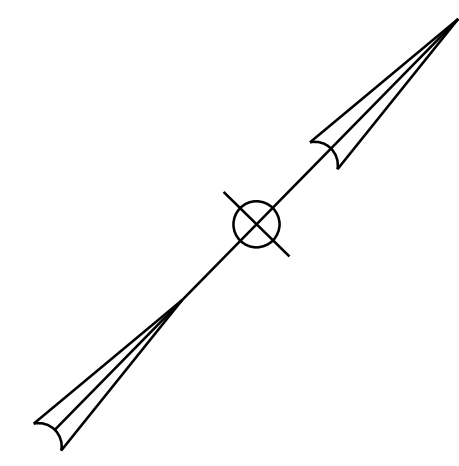
CONTRACT: 2022.07

Filename: ...HIGHWAY\MSTA\Pavement\_01.dgn

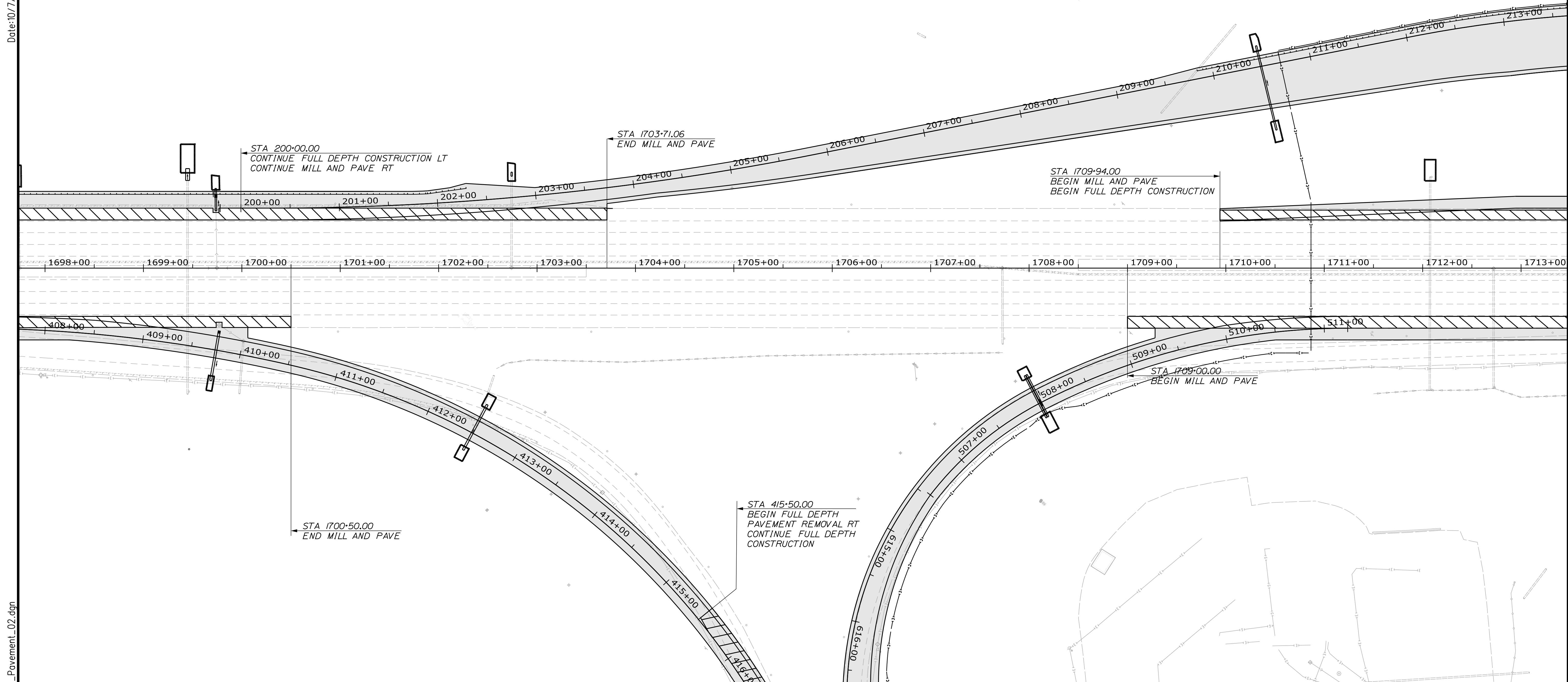


**LEGEND**

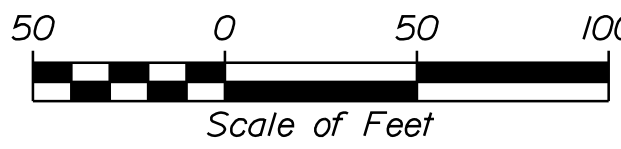
-  VARIABLE DEPTH MILL AND PAVE
-  FULL DEPTH PAVEMENT REMOVAL
-  FULL DEPTH CONSTRUCTION




Date: 10/17/2022



Filename: ...HIGHWAY\MSTA\Pavement\_02.dgn

Scale:  Scale of Feet

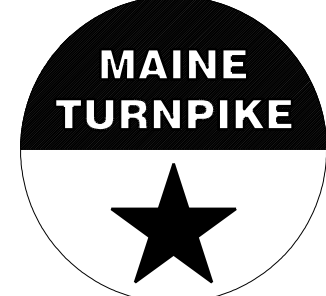
No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

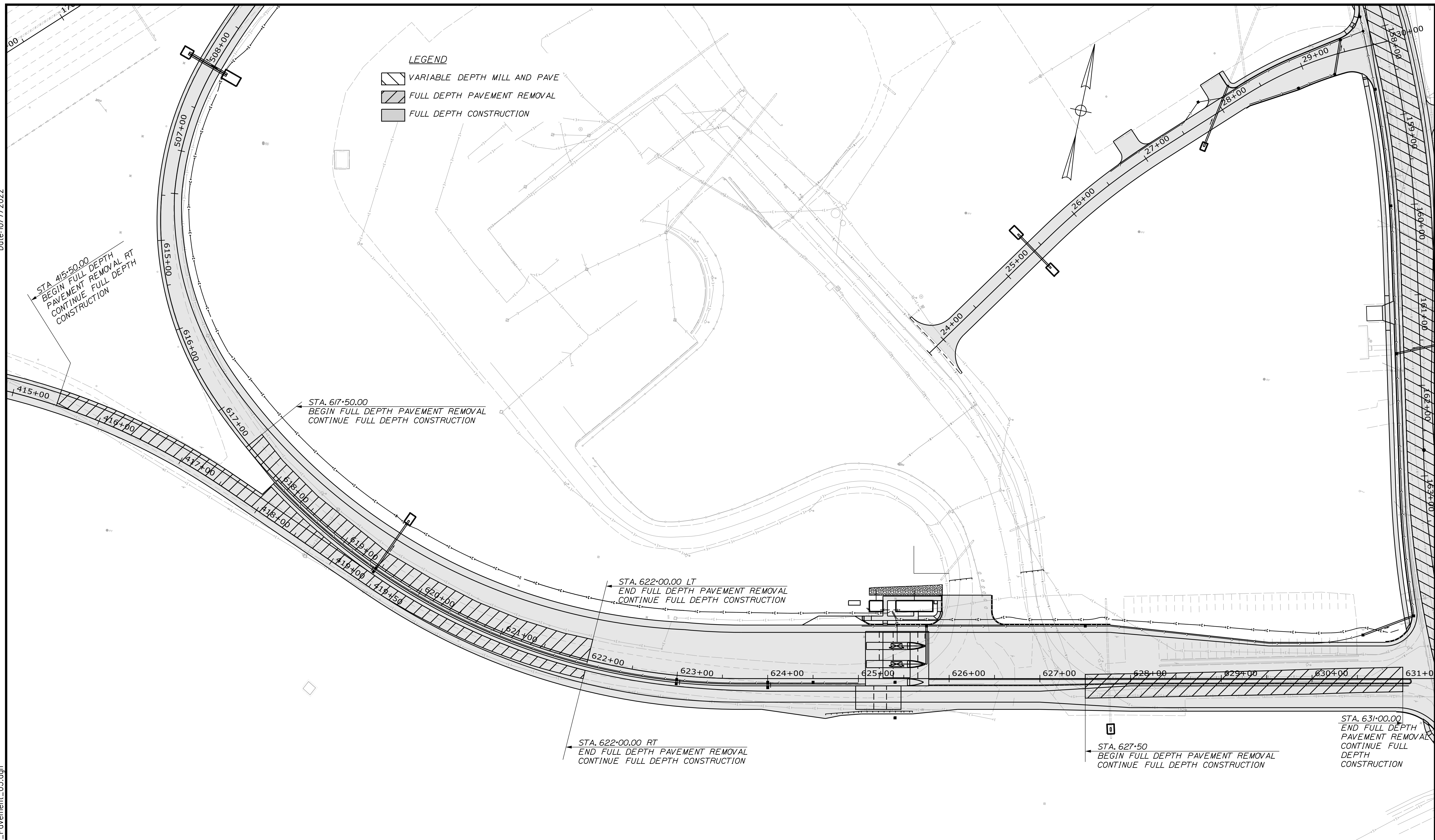
INTERCHANGE IMPROVEMENTS  
 SACO (EXIT 35 & 36)  
 PAVEMENT PLAN 2

SHEET NUMBER: PP-03  
 185 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...HIGHWAY\MSTA\_Pavement\_03.dgn



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	THG	10\22	In Charge of	LEM 10\22

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PORTLAND, ME 04102  
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FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXIT 35 & 36)

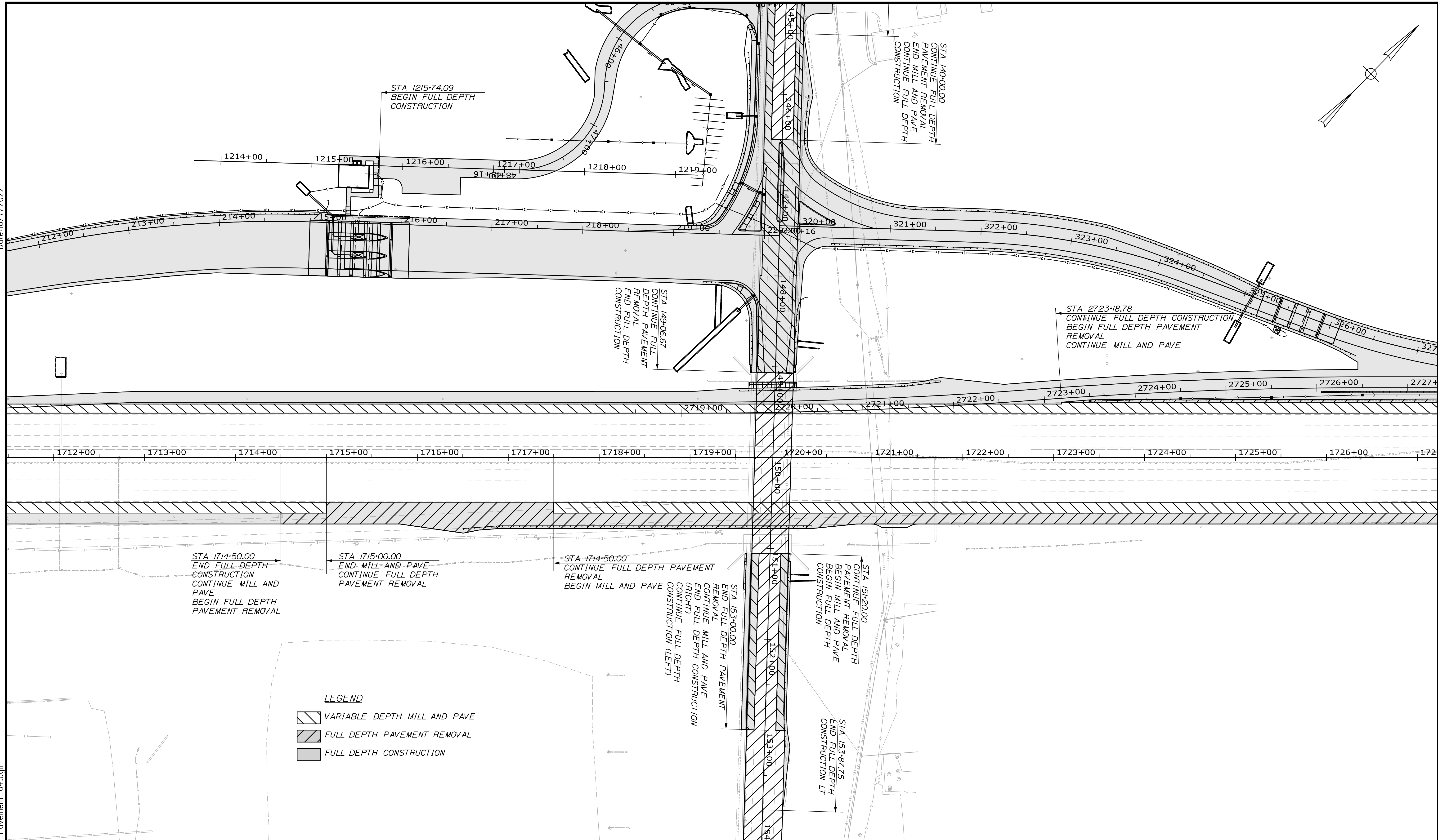
**PAVEMENT PLAN 3**

SHEET NUMBER: PP-04  
186 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...HIGHWAY.MSTA\Pavement\_04.dgn



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

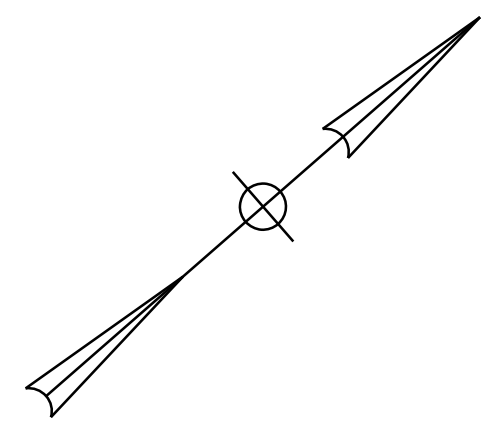
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXIT 35 & 36)



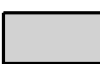
**PAVEMENT PLAN 4**

SHEET NUMBER: PP-05  
187 OF 735

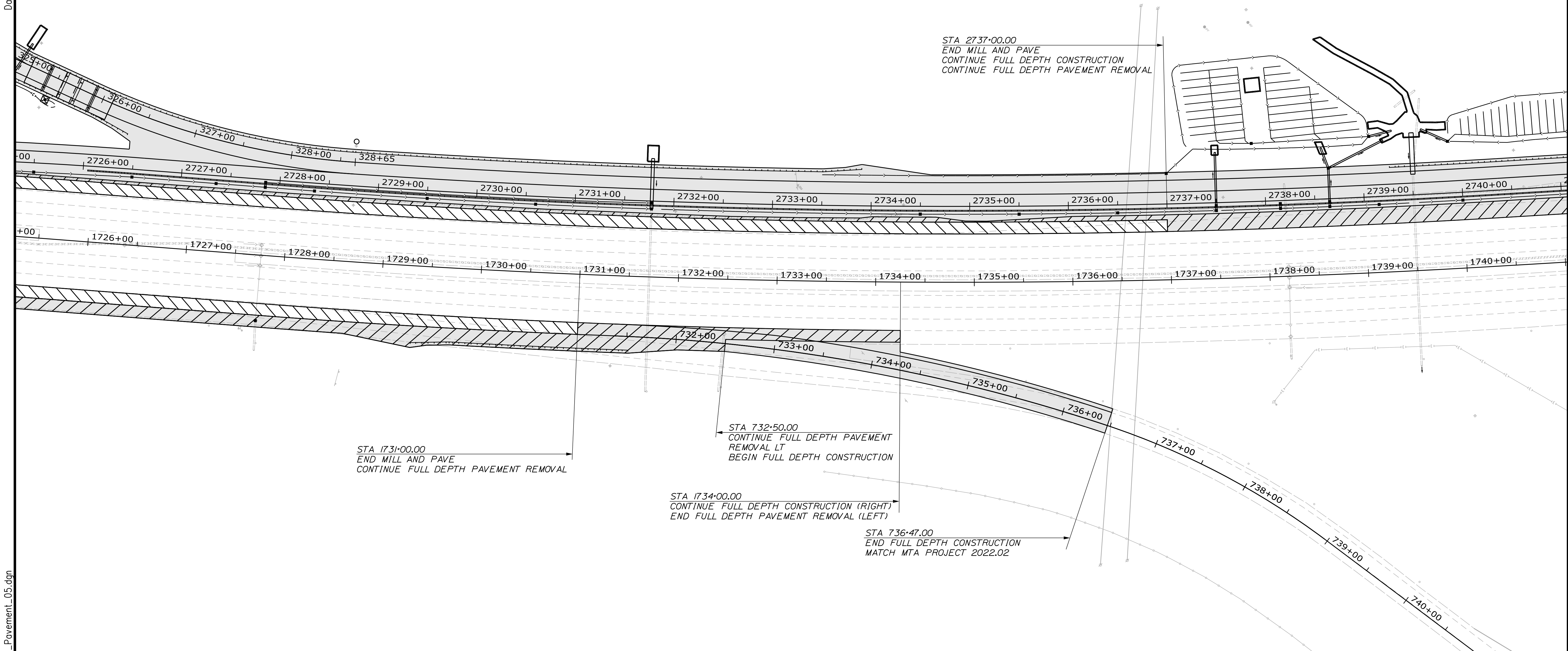
CONTRACT: 2022.07



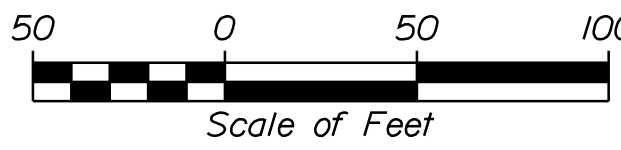
**LEGEND**

	VARIABLE DEPTH MILL AND PAVE
	FULL DEPTH PAVEMENT REMOVAL
	FULL DEPTH CONSTRUCTION

Date: 10/17/2022




Filename: ... \HIGHWAY\MSTA\Pavement\_05.dgn

Scale:  Scale of Feet

No.	Revision	By	Date

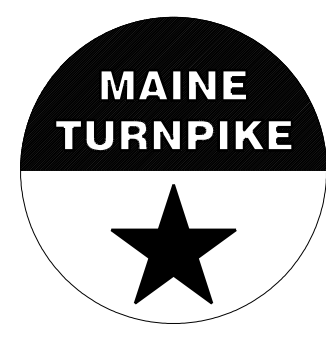
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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 PORTLAND, ME 04102  
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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXIT 35 & 36)

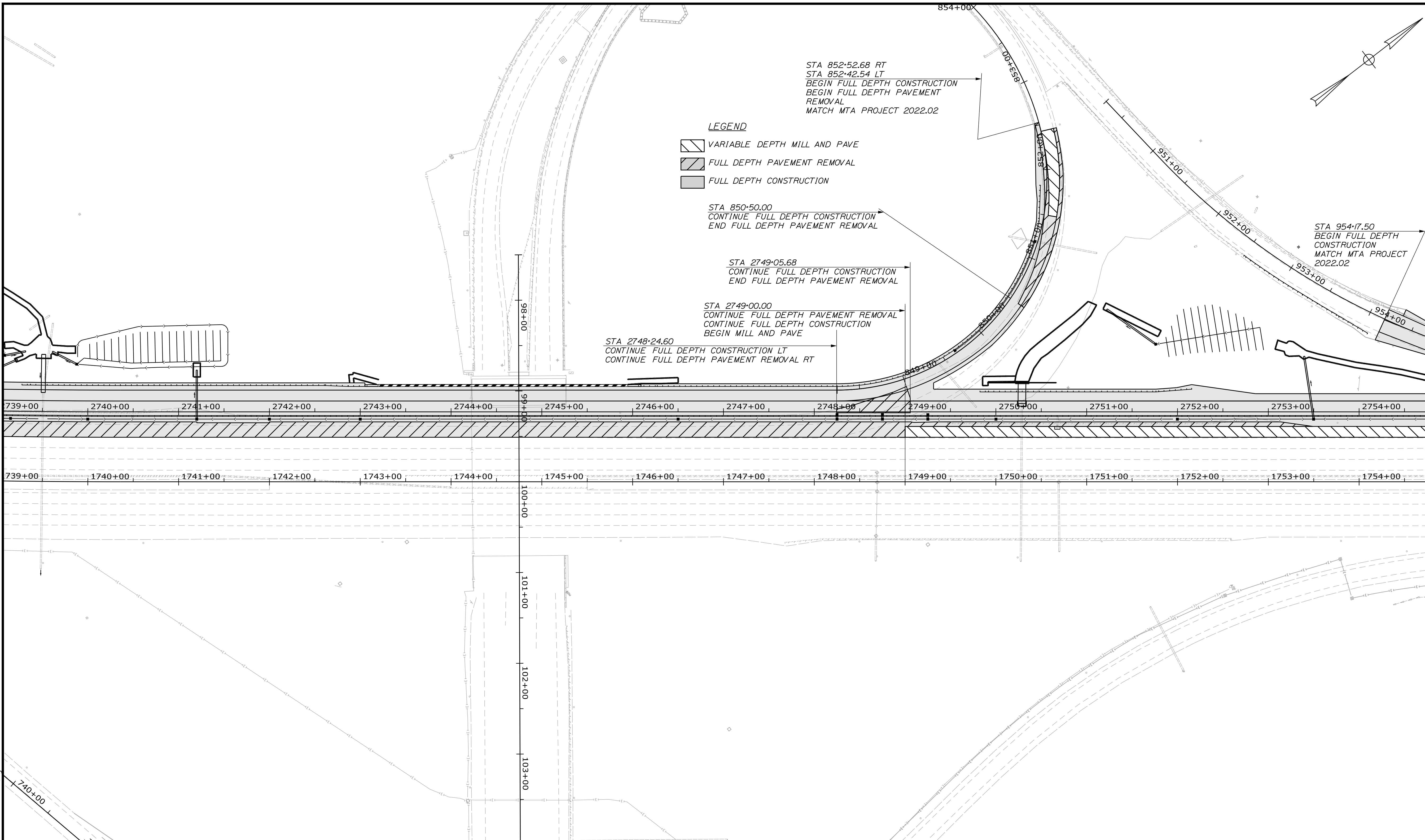
PAVEMENT PLAN 5

SHEET NUMBER: PP-06  
 188 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...HIGHWAY\_MSTA\_Pavement\_06.dgn



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

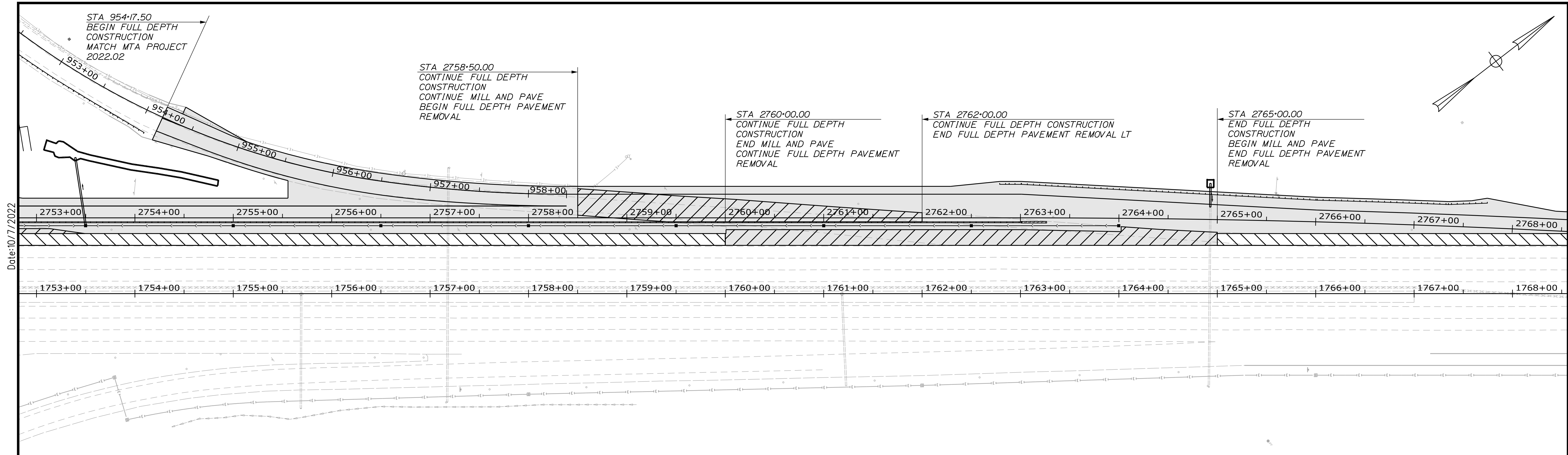
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXIT 35 & 36)

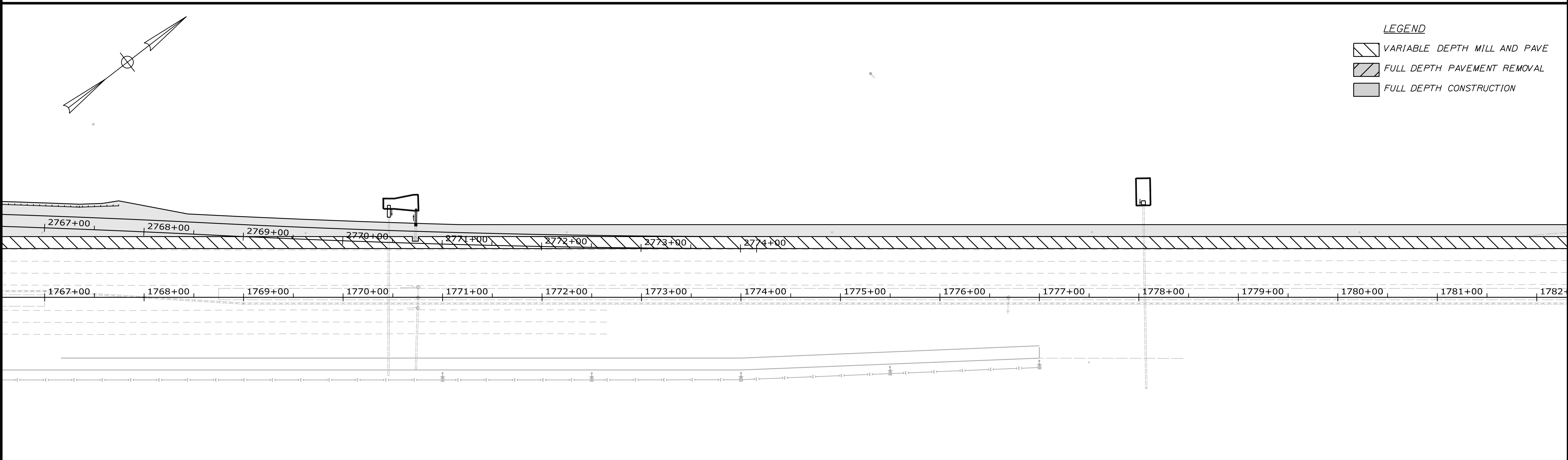
**PAVEMENT PLAN 6**

SHEET NUMBER: PP-07  
189 OF 735

CONTRACT: 2022.07



Date: 10/17/2022



Filename: ...HIGHWAY\_MSTA\_Pavement\_07.dgn

Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXIT 35 & 36)

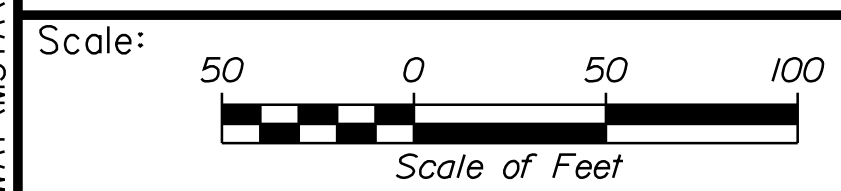
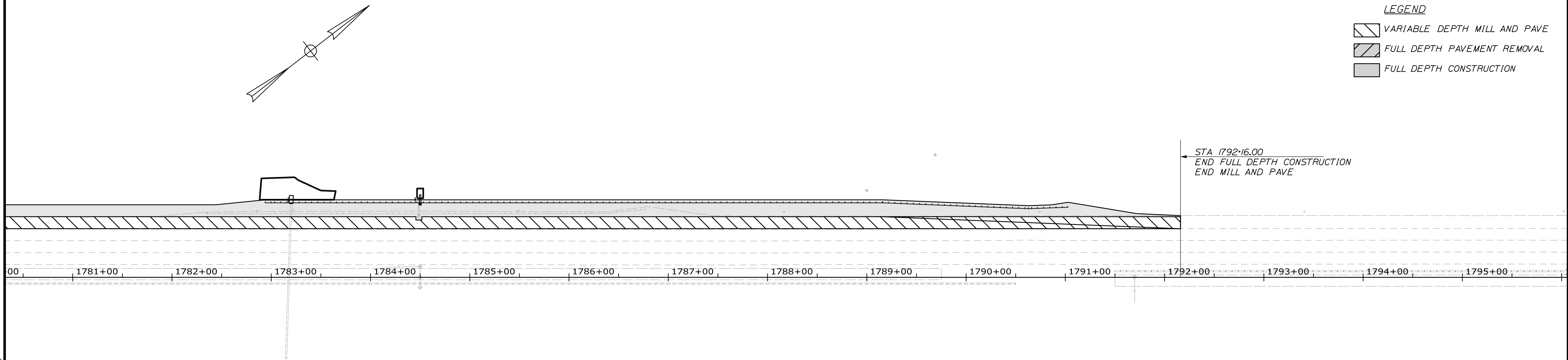
**PAVEMENT PLAN 7**

SHEET NUMBER: PP-08  
190 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...HIGHWAY\_MSTA\_Pavement\_08.dgn



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

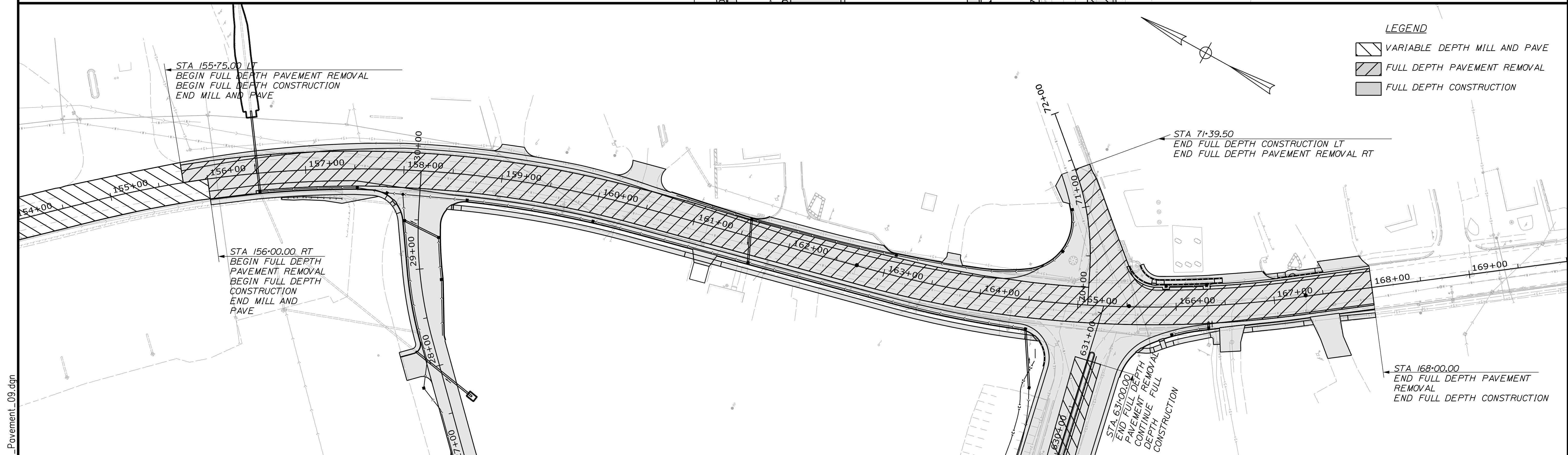
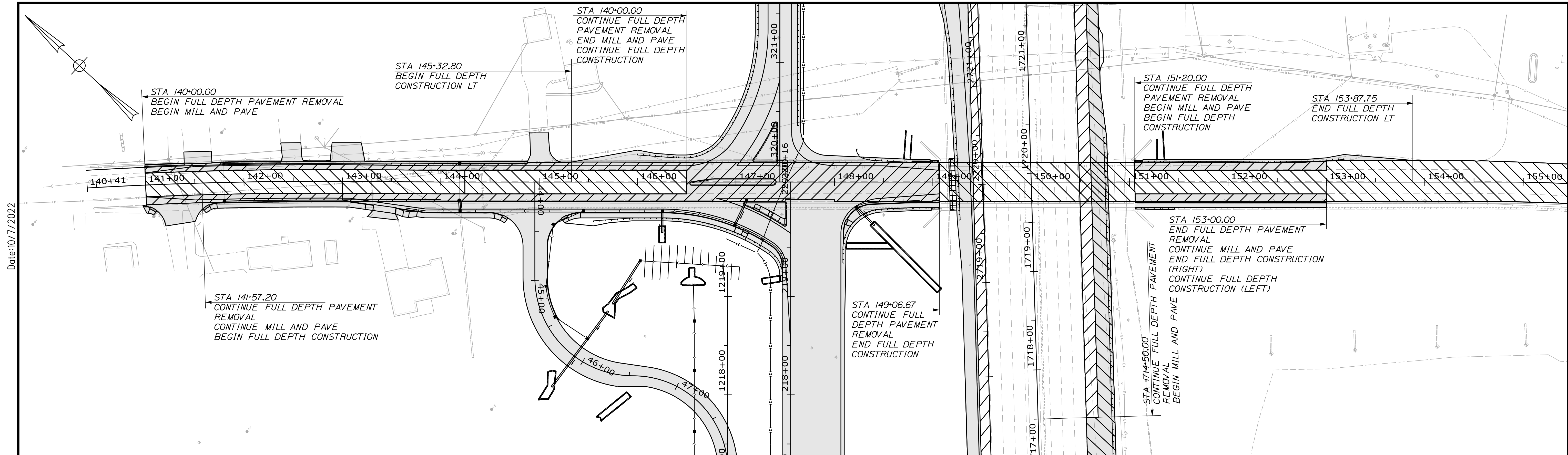
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXIT 35 & 36)

PAVEMENT PLAN 8

SHEET NUMBER: PP-09  
19 OF 735

CONTRACT: 2022.07



**LEGEND**

- VARIABLE DEPTH MILL AND PAVE
- FULL DEPTH PAVEMENT REMOVAL
- FULL DEPTH CONSTRUCTION

Scale: Scale of Feet

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS  
 SACO (EXIT 35 & 36)  
 PAVEMENT PLAN 9**

SHEET NUMBER: PP-10  
 192 OF 735

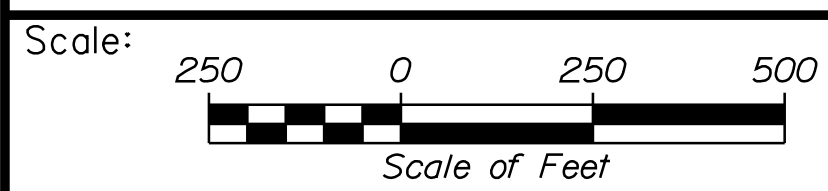
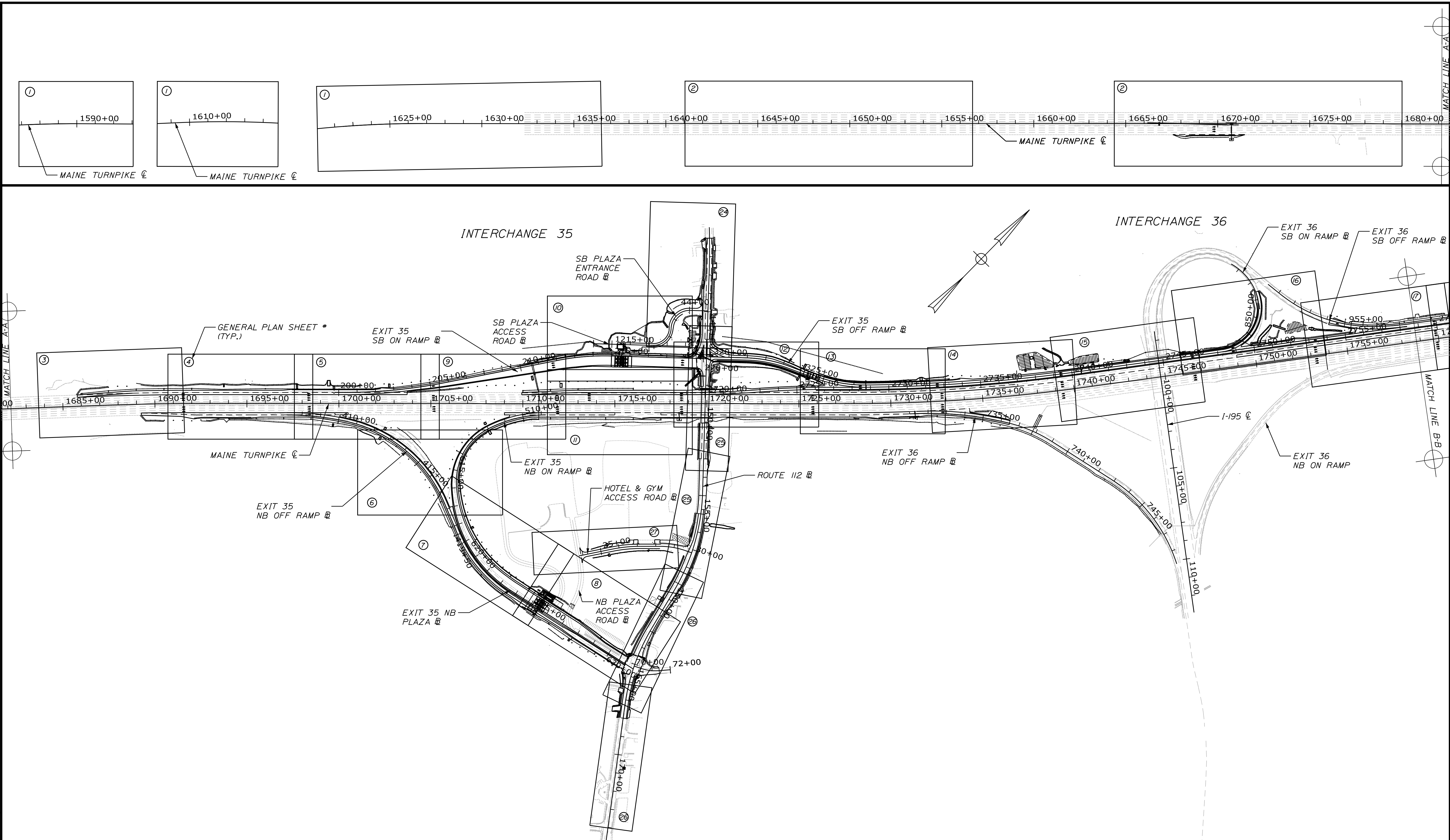
CONTRACT:2022.07

Date:10/7/2022

Filename: ...HIGHWAY.MSTA\_Pavement\_09.dgn



Date: 10/17/2022



No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

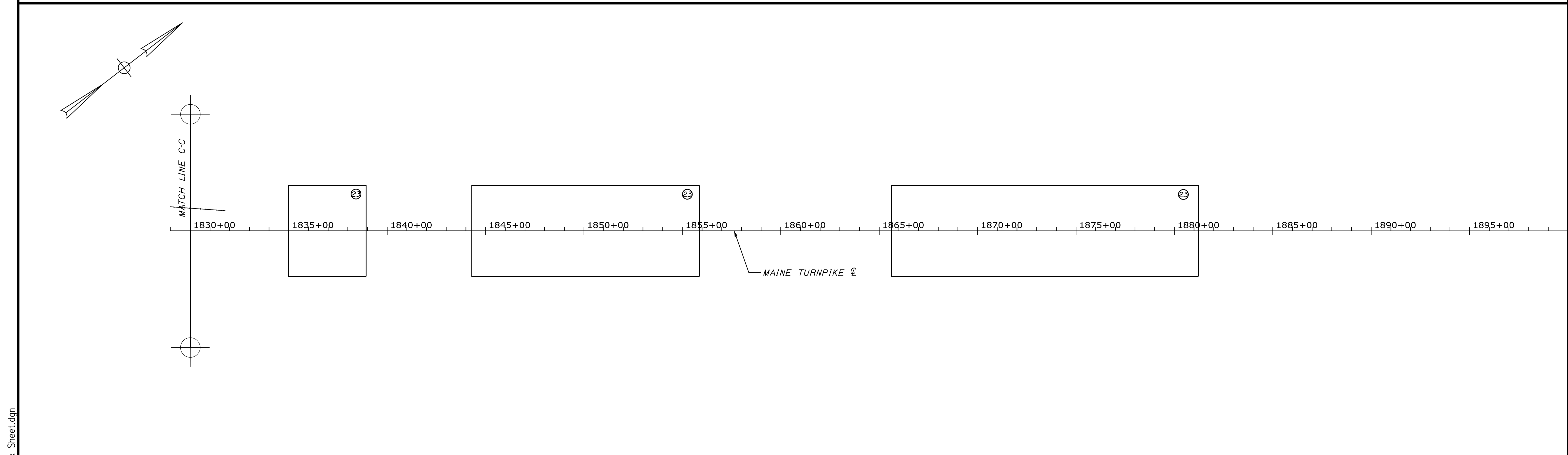
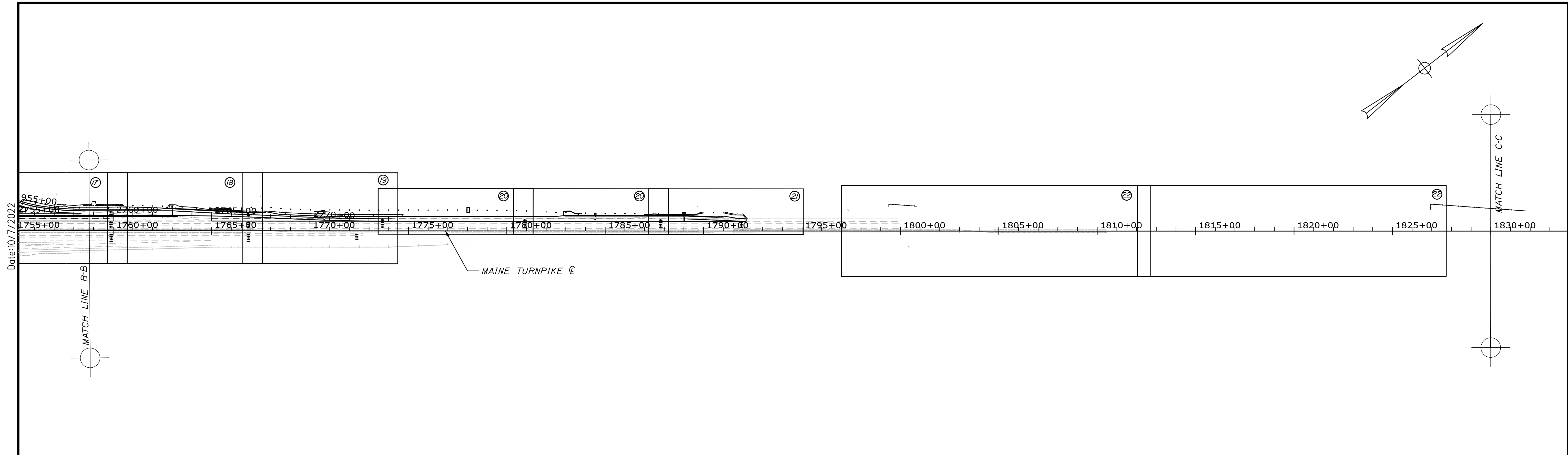
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

SIGNING AND STRIPING INDEX PLAN 1

SHEET NUMBER: SS-01  
193 OF 735

CONTRACT: 2022.07

Filename: ...MSTA\_SS\_Index\_Sheet.dgn



Filename: ...MSTA\_SS\_Index\_Sheet.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

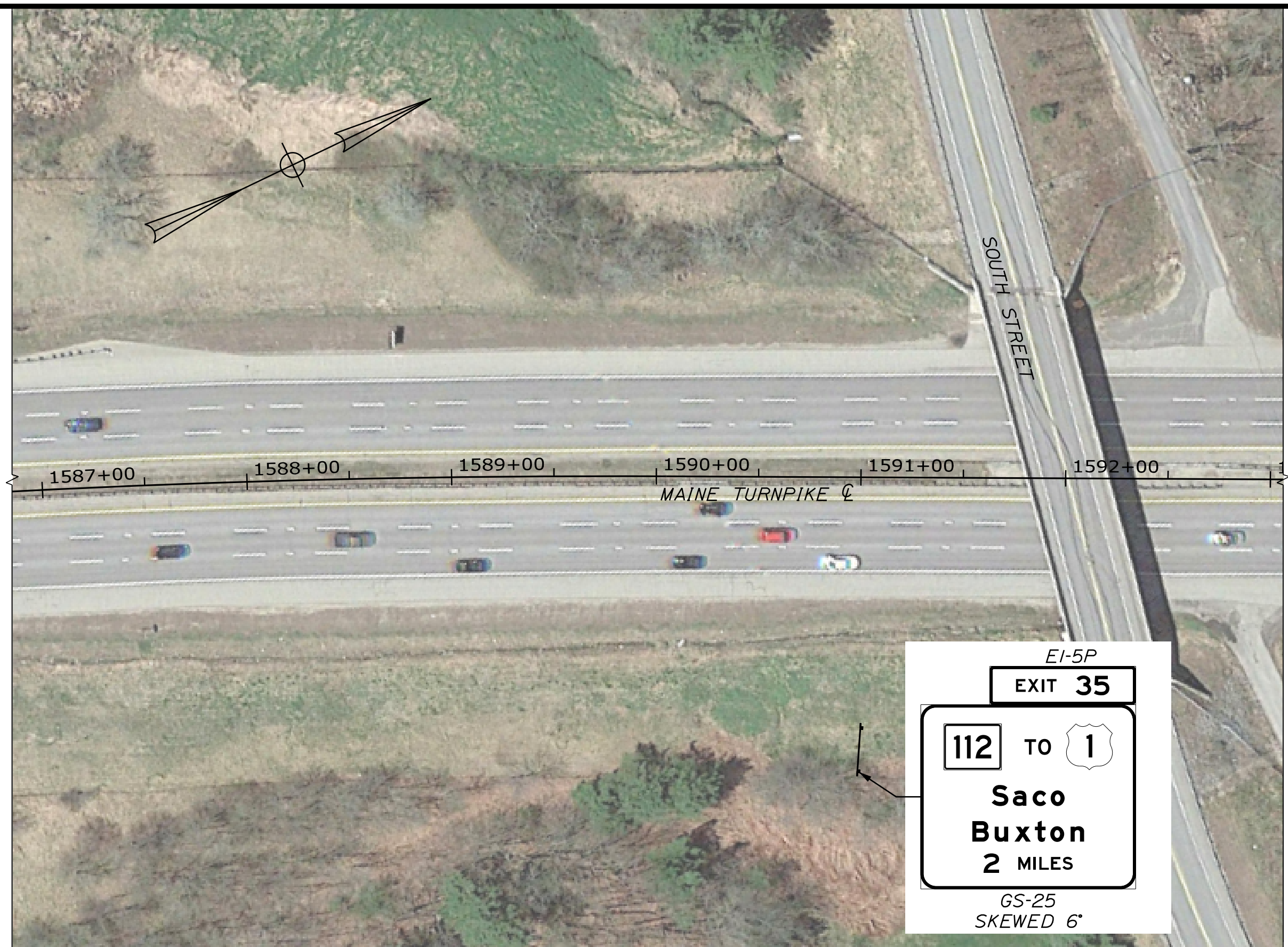
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING INDEX PLAN 2

SHEET NUMBER: SS-02  
 CONTRACT:2022.07  
 194 OF 735

Date: 10/17/2022



**LEGEND**

MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL	6" BROKEN WHITE LANE LINE	EXISTING SIGN
DWL	6" DOTTED WHITE LANE LINE	
SWL	6" SOLID WHITE LANE LINE	
SWGL	12" SOLID WHITE GORE LINE	PROPOSED SIGN
SYL	6" SOLID YELLOW LANE LINE	



Scale: 50 0 50 100  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

SIGNING AND STRIPING PLAN 1

SHEET NUMBER: SS-03  
195 OF 735

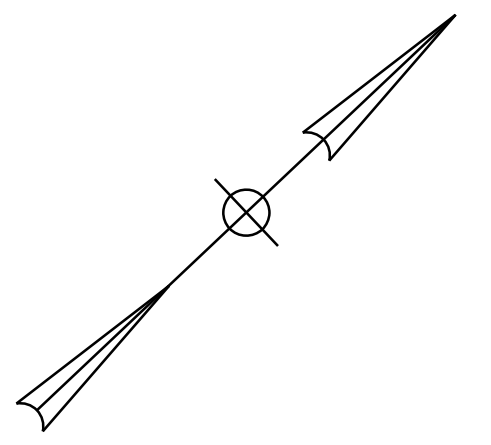
CONTRACT: 2022.07

Filename: ...\\00\HIGHWAY\MSTA\...SS\_01.dgn

**LEGEND**

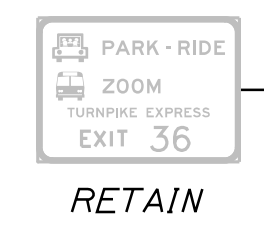
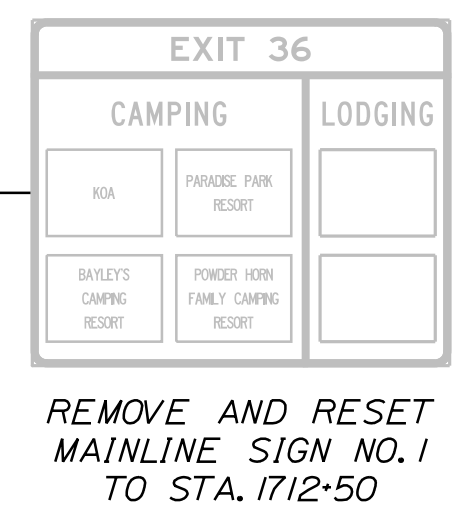
MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL	6" BROKEN WHITE LANE LINE	EXISTING SIGN
DWL	6" DOTTED WHITE LANE LINE	
SWL	6" SOLID WHITE LANE LINE	
SWGL	12" SOLID WHITE GORE LINE	
SYL	6" SOLID YELLOW LANE LINE	PROPOSED SIGN

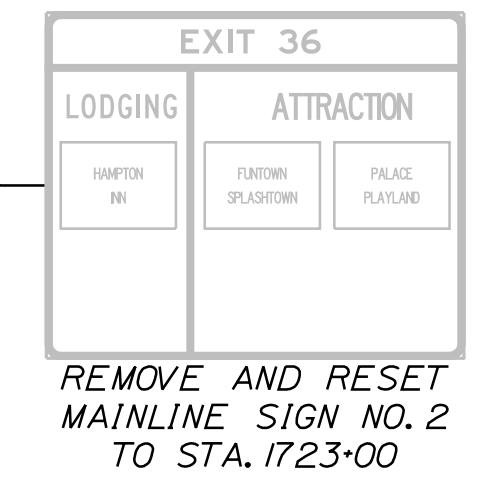
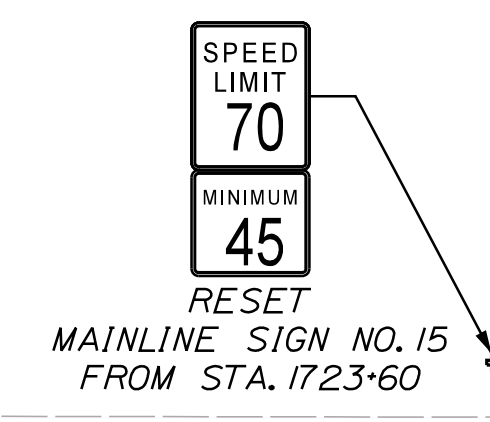


Date: 10/17/2022

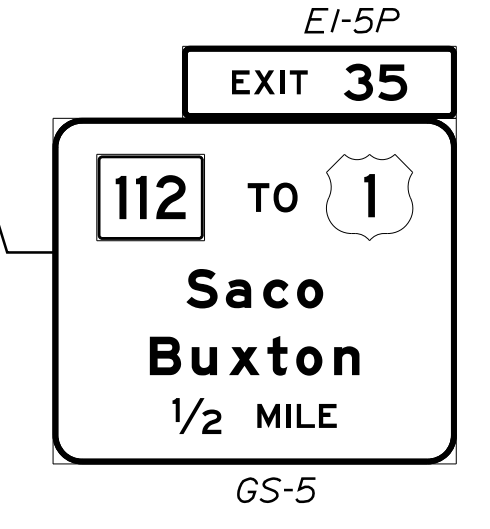
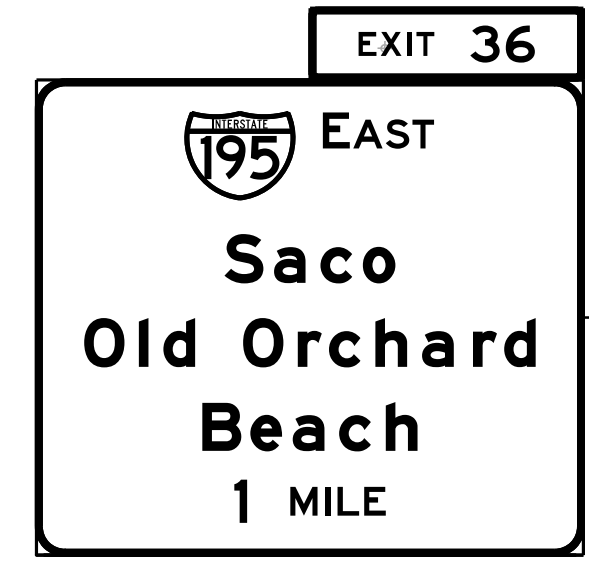
1641+00 1642+00 1643+00 1644+00 1645+00 1646+00 1647+00 1648+00 1649+00 1650+00 1651+00 1652+00 1653+00 1654+00 1655+00 1656+00



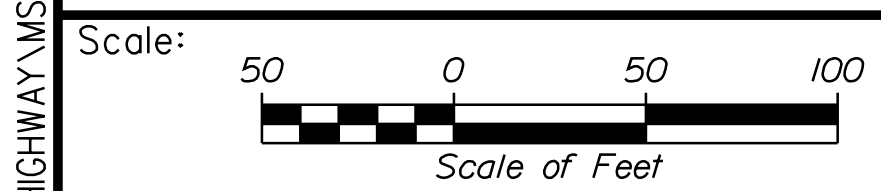
1665+00 1666+00 1667+00 1668+00 1669+00 1670+00 1671+00 1672+00 1673+00 1674+00 1675+00 1676+00 1677+00 1678+00 1679+00



REMOVE AND RESET MAINLINE SIGN NO. 3 FROM 1673+50 TO OVERHEAD



REMOVE AND RESET MAINLINE SIGN NO. 11 TO STA. 1706+85 RT.



Designed by:

**Stantec**

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22



**THE GOLD STAR MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
SIGNING AND STRIPING PLAN 2**

Filename: ...000\HIGHWAY\MSTA\SS\_02.dgn

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: SS-04

196 OF 735

Date: 10/7/2022

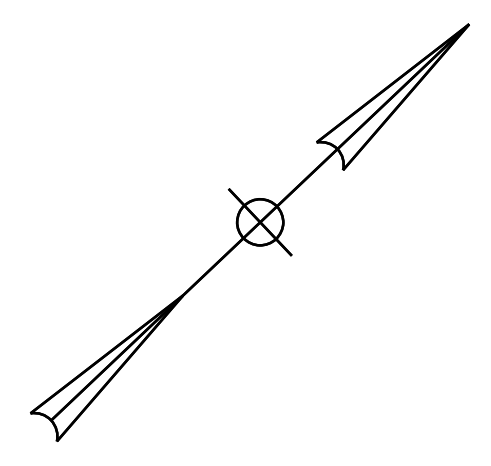
Filename: ...:\00\HIGHWAY\MSTA\...SS\_03.dgn

**LEGEND**

MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL 6" BROKEN WHITE LANE LINE  
 DWL 6" DOTTED WHITE LANE LINE  
 SWL 6" SOLID WHITE LANE LINE  
 SWGL 12" SOLID WHITE GORE LINE  
 SYL 6" SOLID YELLOW LANE LINE

EXISTING SIGN  
 PROPOSED SIGN



SOUTH  
 95  
 MAINE TURNPIKE  
 REMOVE AND RESET SIGN  
 FROM STA. 1732-70 SB

MATCH EXIST  
 BEGIN SWL

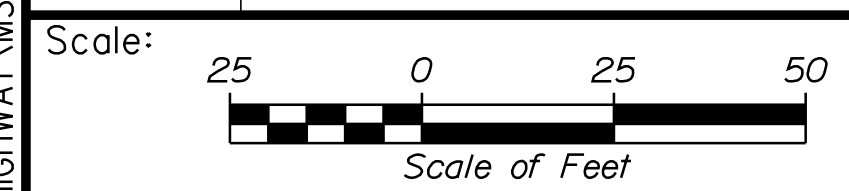
MAINE TURNPIKE C 1688+00

MATCH EXIST  
 BEGIN SWL

NOT AN EXIT  
 HOTEL &  
 CONFERENCE CENTER  
 NEXT RIGHT

REMOVE AND DISPOSE SIGN

1684+00 1685+00 1686+00 1687+00 1688+00 1689+00 1690+00 1691+00



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 3

SHEET NUMBER: SS-05  
 197 OF 735

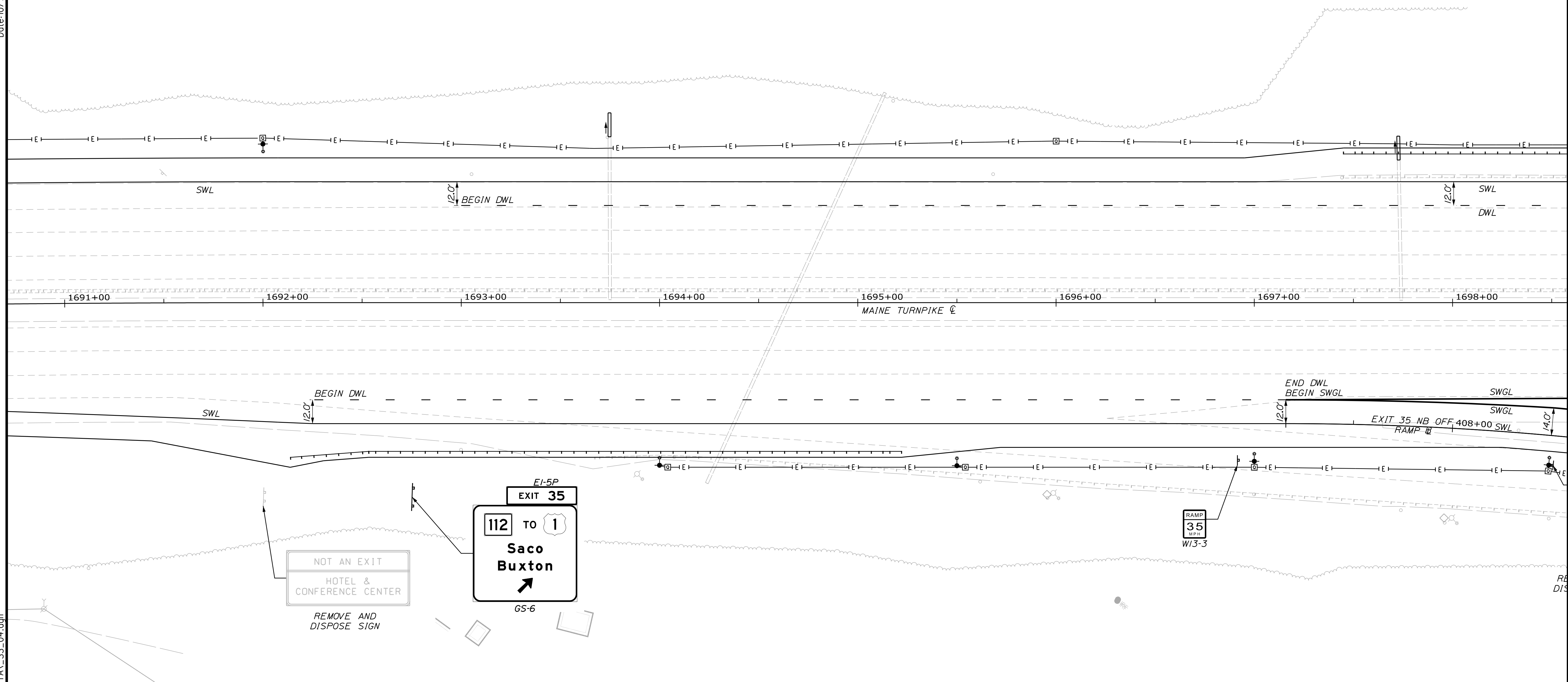
CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\...SS\_04.dgn

**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL	6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL	6" DOTTED WHITE LANE LINE		PROPOSED SIGN
SWL	6" SOLID WHITE LANE LINE		
SWGL	12" SOLID WHITE GORE LINE		
SYL	6" SOLID YELLOW LANE LINE		



Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 4

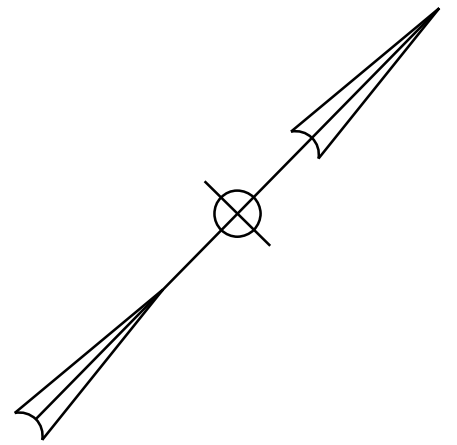
SHEET NUMBER: SS-06  
 198 OF 735

CONTRACT: 2022.07

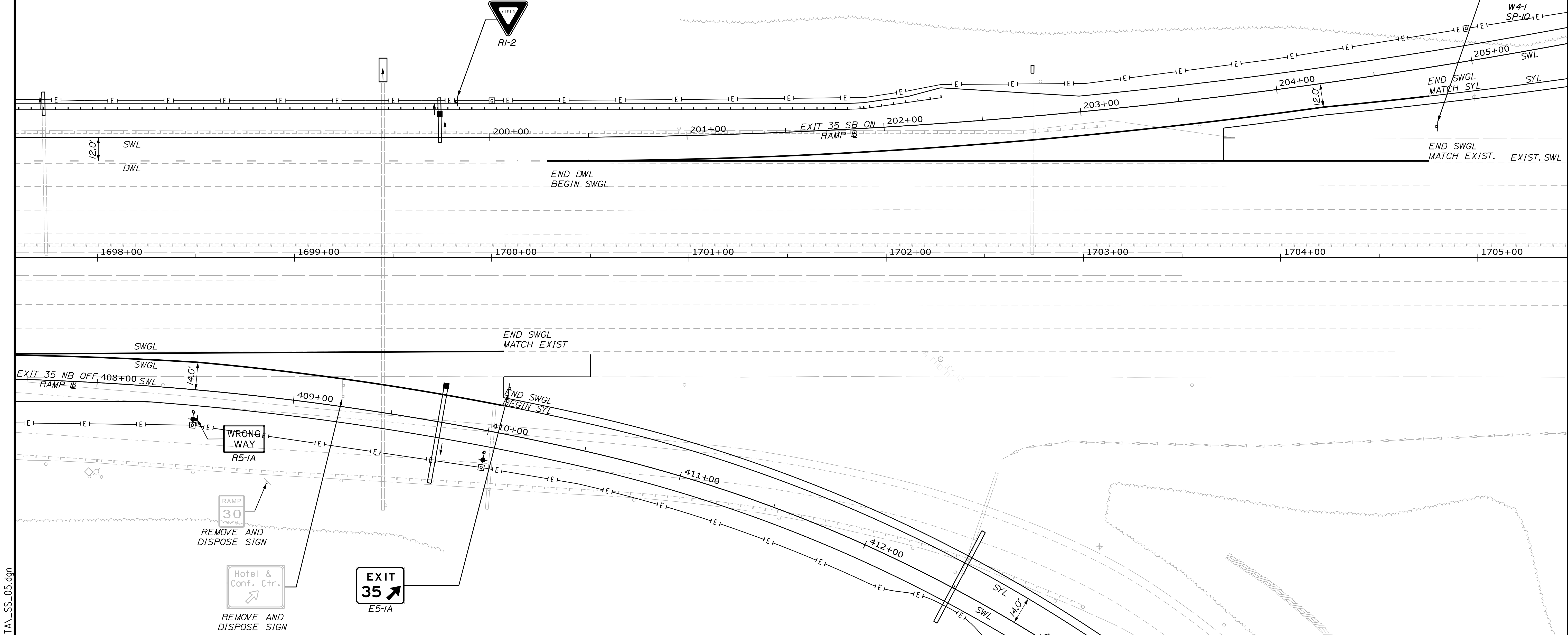
**LEGEND**

MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL	6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL	6" DOTTED WHITE LANE LINE		PROPOSED SIGN
SWL	6" SOLID WHITE LANE LINE		
SWGL	12" SOLID WHITE GORE LINE		
SYL	6" SOLID YELLOW LANE LINE		



Date: 10/7/2022



Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

SIGNING AND STRIPING PLAN 5

SHEET NUMBER: SS-07  
 199 OF 735

CONTRACT: 2022.07

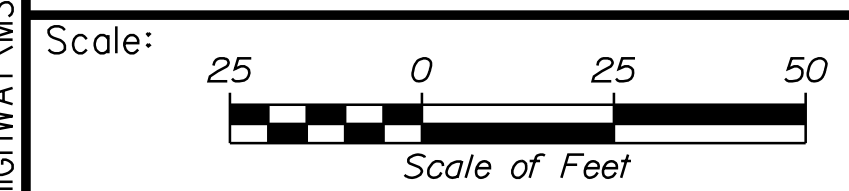
Filename: ...:\00.HIGHWAY\MSTA\...SS\_05.dgn

Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\...SS\_06.dgn

**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL 6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL 6" DOTTED WHITE LANE LINE		
SWL 6" SOLID WHITE LANE LINE		
SWGL 12" SOLID WHITE GORE LINE		
SYL 6" SOLID YELLOW LANE LINE		
		EXISTING SIGN
		PROPOSED SIGN



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

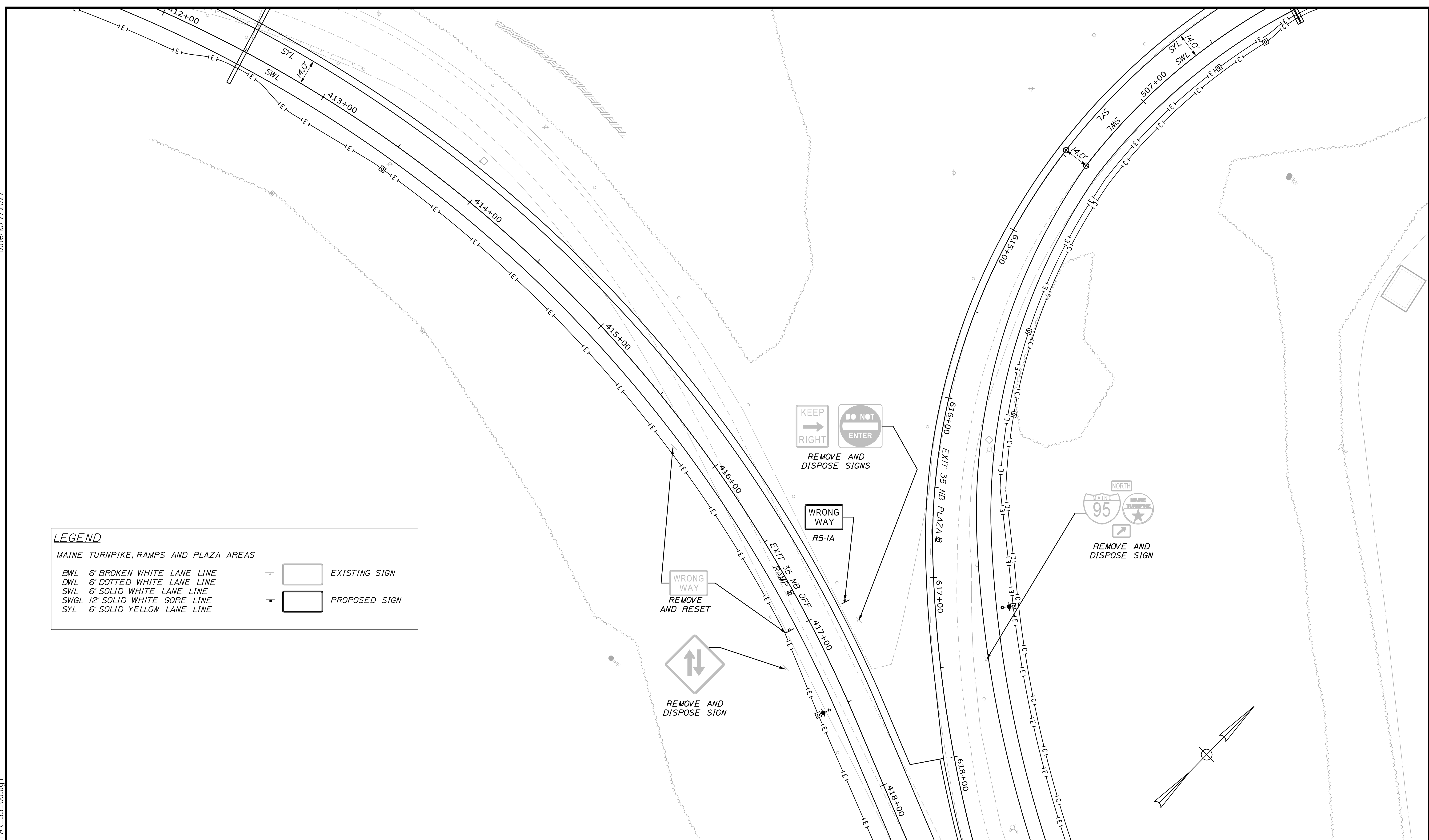
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

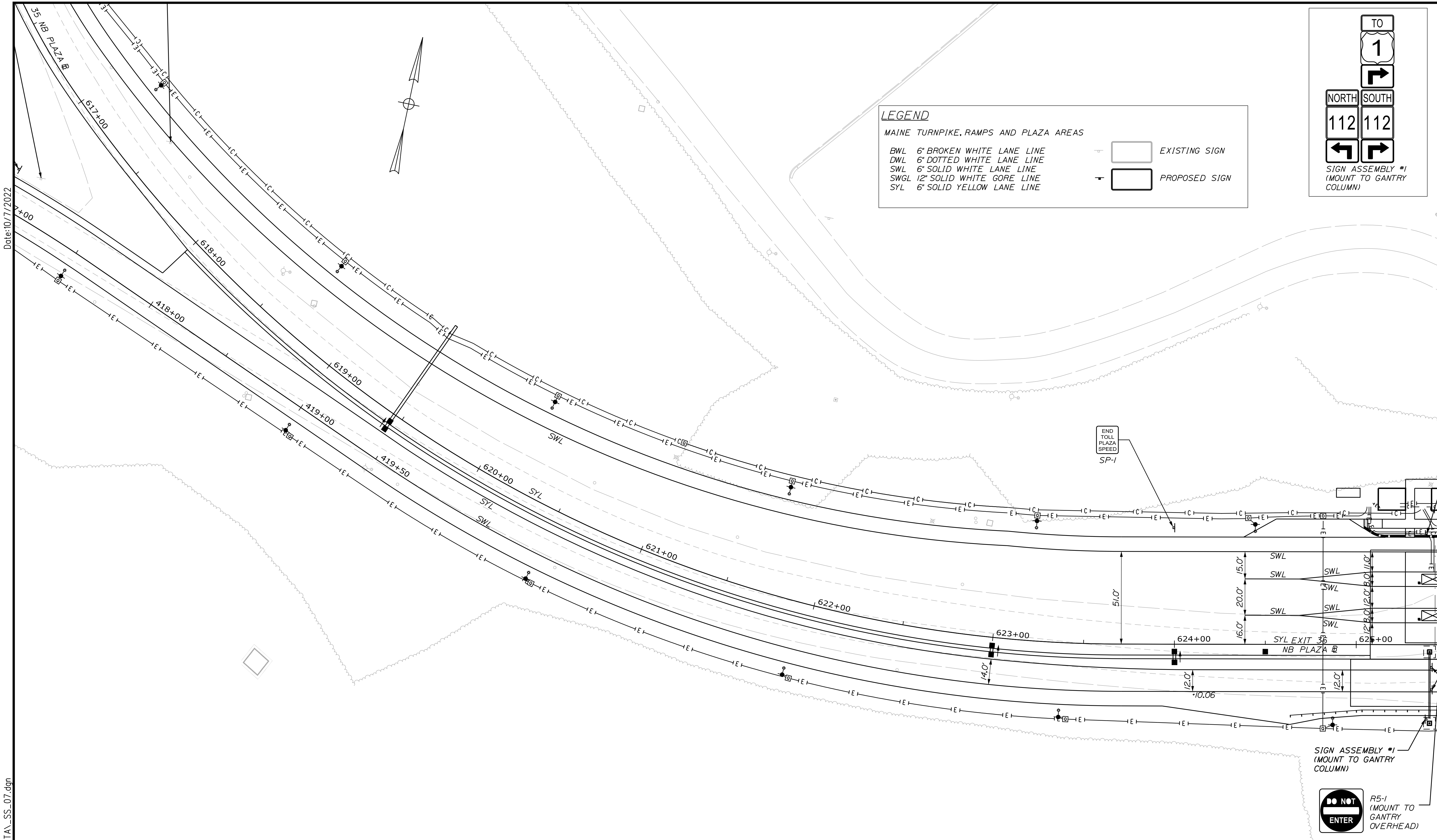
SIGNING AND STRIPING PLAN 6

SHEET NUMBER: SS-08  
 200 OF 735

CONTRACT: 2022.07







**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL 6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL 6" DOTTED WHITE LANE LINE		
SWL 6" SOLID WHITE LANE LINE		
SWGL 12" SOLID WHITE GORE LINE		
SYL 6" SOLID YELLOW LANE LINE		
		EXISTING SIGN
		PROPOSED SIGN

TO  
 1  
 NORTH SOUTH  
 112 112  
 SIGN ASSEMBLY #1  
 (MOUNT TO GANTRY COLUMN)

END TOLL PLAZA SPEED SP-1

SIGN ASSEMBLY #1  
 (MOUNT TO GANTRY COLUMN)

R5-1  
 (MOUNT TO GANTRY OVERHEAD)

Date: 10/7/2022

Filename: ...:\00\HIGHWAY\MSTA\...SS\_07.dgn

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
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 TEL (207) 887-3448  
 FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

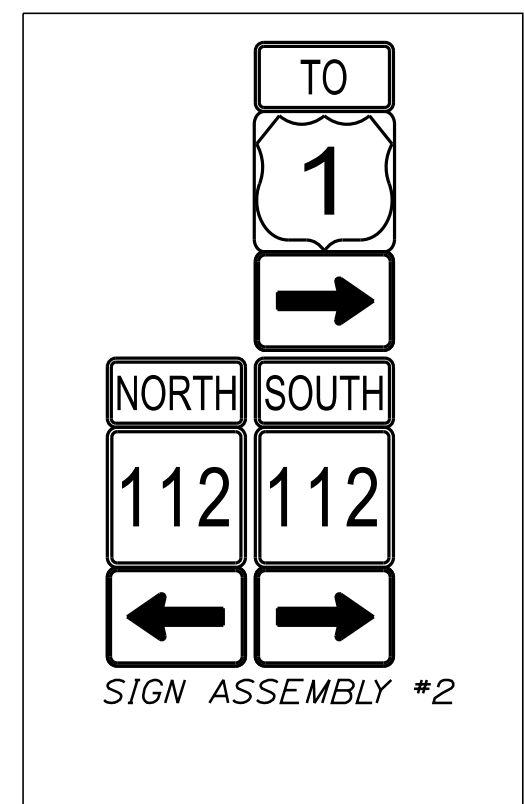
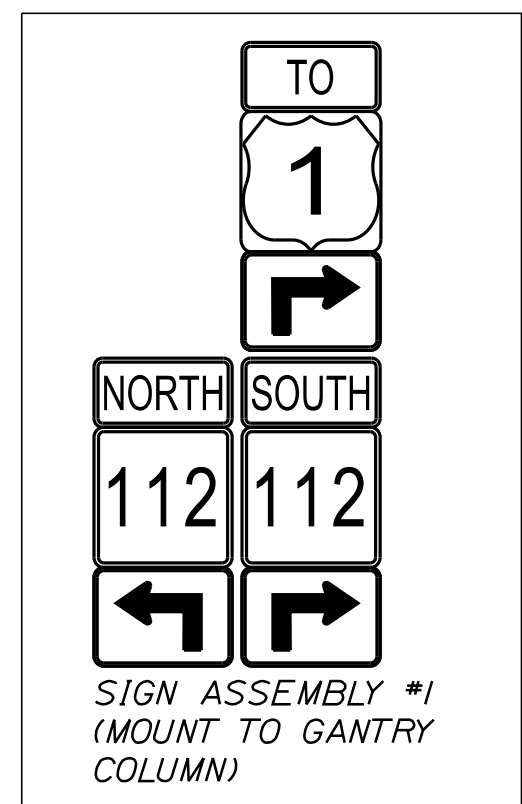
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 7

SHEET NUMBER: SS-09  
 201 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...00\HIGHWAY\MSTA\...SS\_08.dgn



**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL 6" BROKEN WHITE LANE LINE  
 DWL 6" DOTTED WHITE LANE LINE  
 SWL 6" SOLID WHITE LANE LINE  
 SWGL 12" SOLID WHITE GORE LINE  
 SYL 6" SOLID YELLOW LANE LINE

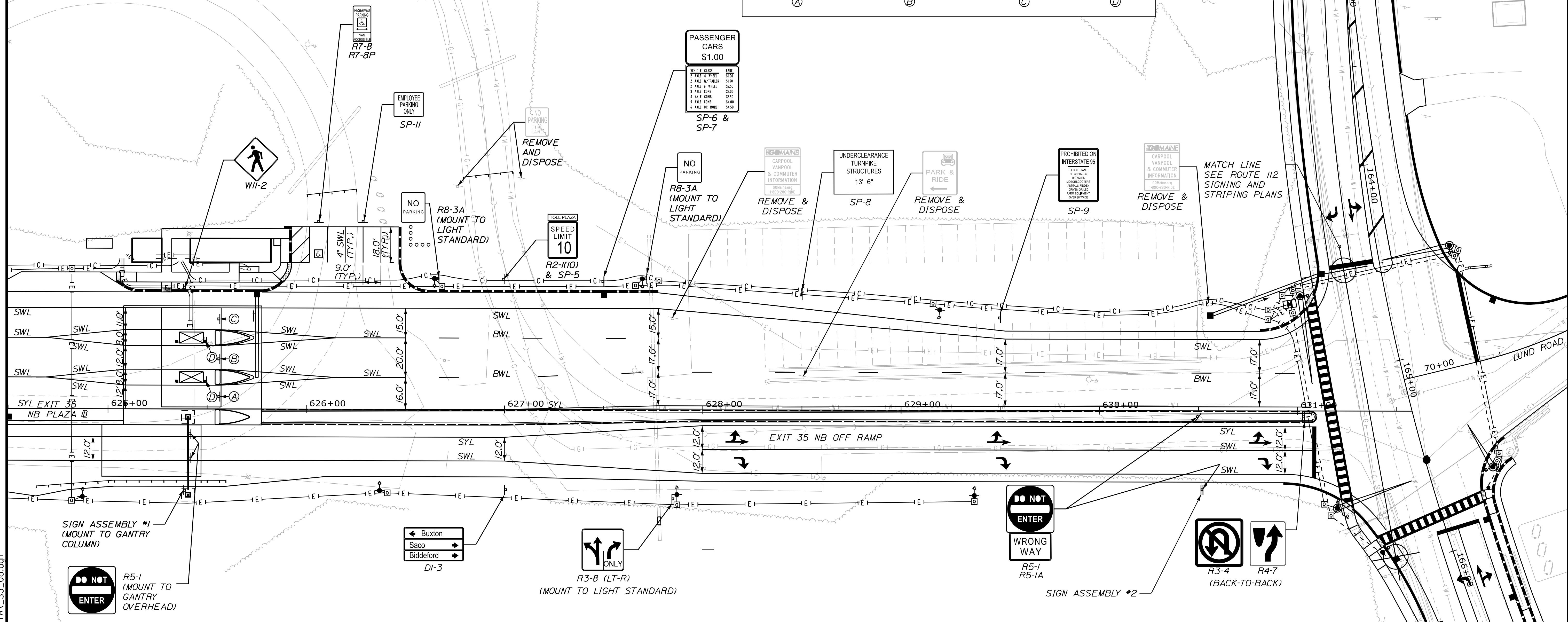
EXISTING SIGN  
 PROPOSED SIGN

**E-Pass**  
 OTHERS PROHIBITED  
 SP-2 (CANOPY MOUNTED STATIC SIGN) (A)

**DYNAMIC**  
 SP-3 (CANOPY MOUNTED DYNAMIC MESSAGE SIGN) (B)

**ANY VEHICLE CASH / RECEIPTS**  
 SP-4 (CANOPY MOUNTED STATIC SIGN) (C)

**SPEED LIMIT 10**  
 R2-1(10) (MOUNT TO COLUMNS) (D)



Scale: 25 0 25 50  
 Scale of Feet

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

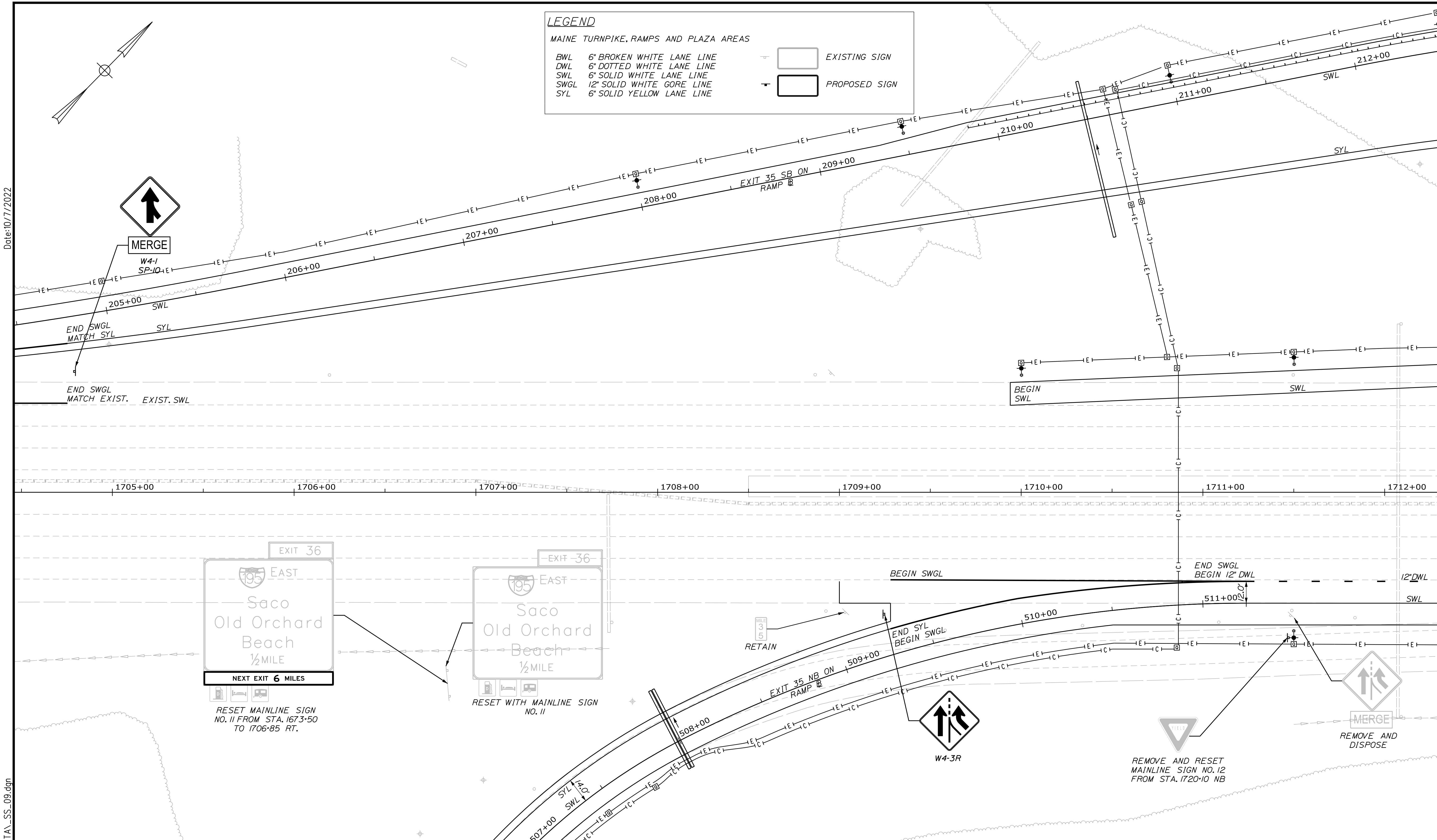
SIGNING AND STRIPING PLAN 8

SHEET NUMBER: SS-10  
 202 OF 735

CONTRACT: 2022.07

**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

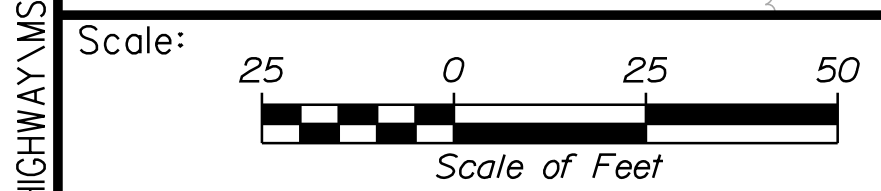
BWL	6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL	6" DOTTED WHITE LANE LINE		PROPOSED SIGN
SWL	6" SOLID WHITE LANE LINE		
SWGL	12" SOLID WHITE GORE LINE		
SYL	6" SOLID YELLOW LANE LINE		



EXIT 36  
 EAST  
 Saco  
 Old Orchard  
 Beach  
 1/2 MILE  
 NEXT EXIT 6 MILES  
 RESET MAINLINE SIGN  
 NO. 11 FROM STA. 1673+50  
 TO 1706+85 RT.

EXIT 36  
 EAST  
 Saco  
 Old Orchard  
 Beach  
 1/2 MILE  
 RESET WITH MAINLINE SIGN  
 NO. 11

REMOVE AND RESET  
 MAINLINE SIGN NO. 12  
 FROM STA. 1720+10 NB



Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date	By	Date

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 9

SHEET NUMBER: SS-11  
 203 OF 735

CONTRACT: 2022.07

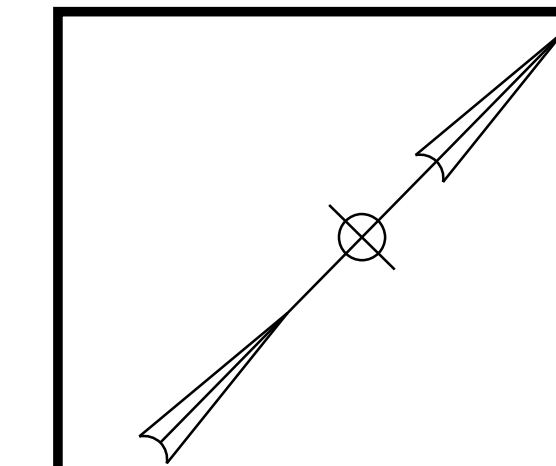
Date: 10/17/2022

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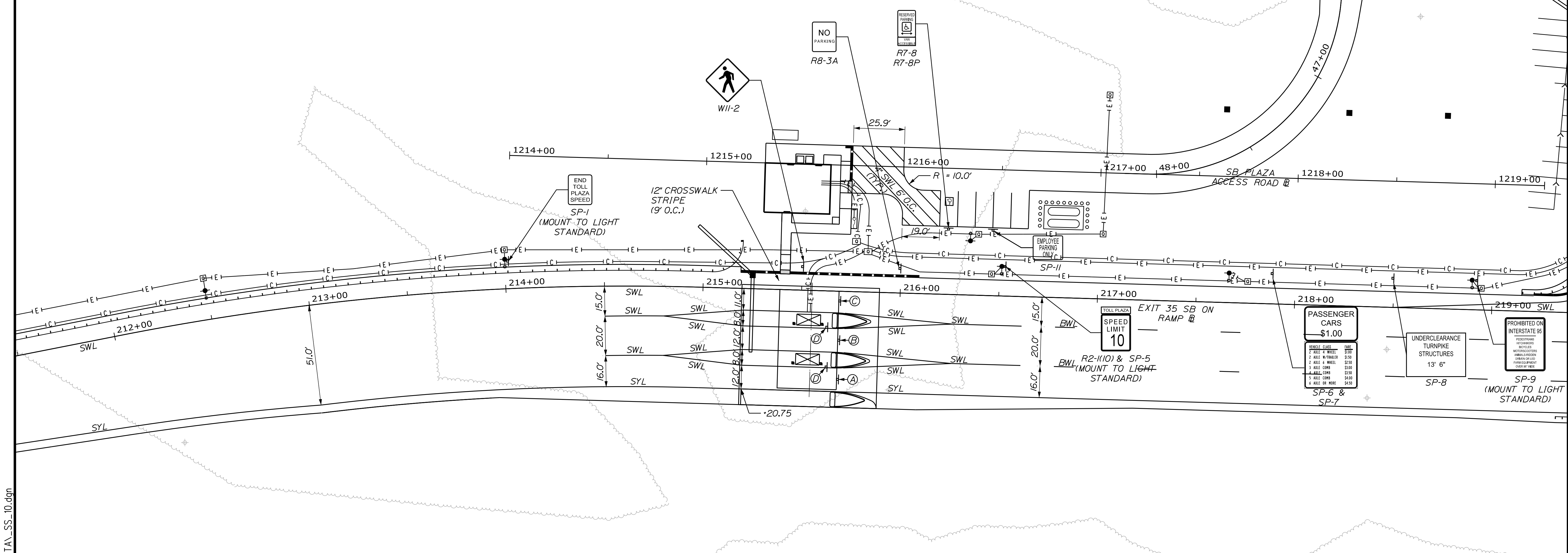
**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL	6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL	6" DOTTED WHITE LANE LINE		PROPOSED SIGN
SWL	6" SOLID WHITE LANE LINE		
SWGL	12" SOLID WHITE GORE LINE		
SYL	6" SOLID YELLOW LANE LINE		

 <b>E-Pass</b> OTHERS PROHIBITED SP-2 (CANOPY MOUNTED STATIC SIGN) (A)	DYNAMIC SP-3 (CANOPY MOUNTED DYNAMIC MESSAGE SIGN) (B)	ANY VEHICLE CASH / RECEIPTS SP-4 (CANOPY MOUNTED STATIC SIGN) (C)	SPEED LIMIT <b>10</b> R2-1(K10) (MOUNT TO COLUMNS) (D)
---	---	---	--



Date: 10/17/2022



Scale:

No.	Revision	By	Date

Designed by:

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
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 FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 10

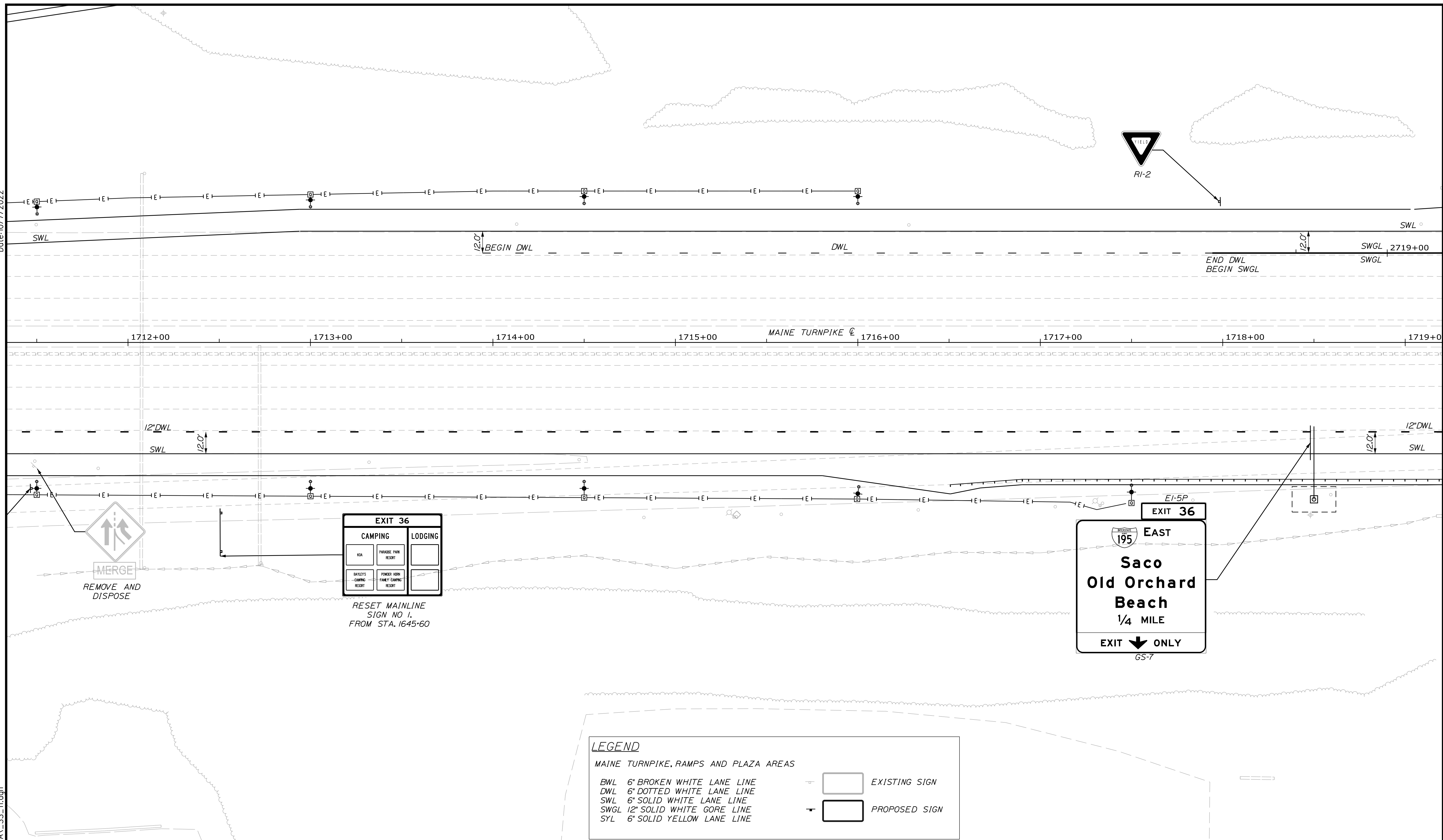
SHEET NUMBER: SS-12  
 204 OF 735

CONTRACT: 2022.07

Filename: ...:\00\HIGHWAY\MSTA\...SS\_10.dgn

Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\...SS\_11.dgn



**LEGEND**

MAINE TURNPIKE, RAMPS AND PLAZA AREAS

- BWL 6" BROKEN WHITE LANE LINE
- DWL 6" DOTTED WHITE LANE LINE
- SWL 6" SOLID WHITE LANE LINE
- SWGL 12" SOLID WHITE GORE LINE
- SYL 6" SOLID YELLOW LANE LINE

- EXISTING SIGN
- PROPOSED SIGN

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
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FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

SIGNING AND STRIPING PLAN 11

SHEET NUMBER: SS-13  
205 OF 735

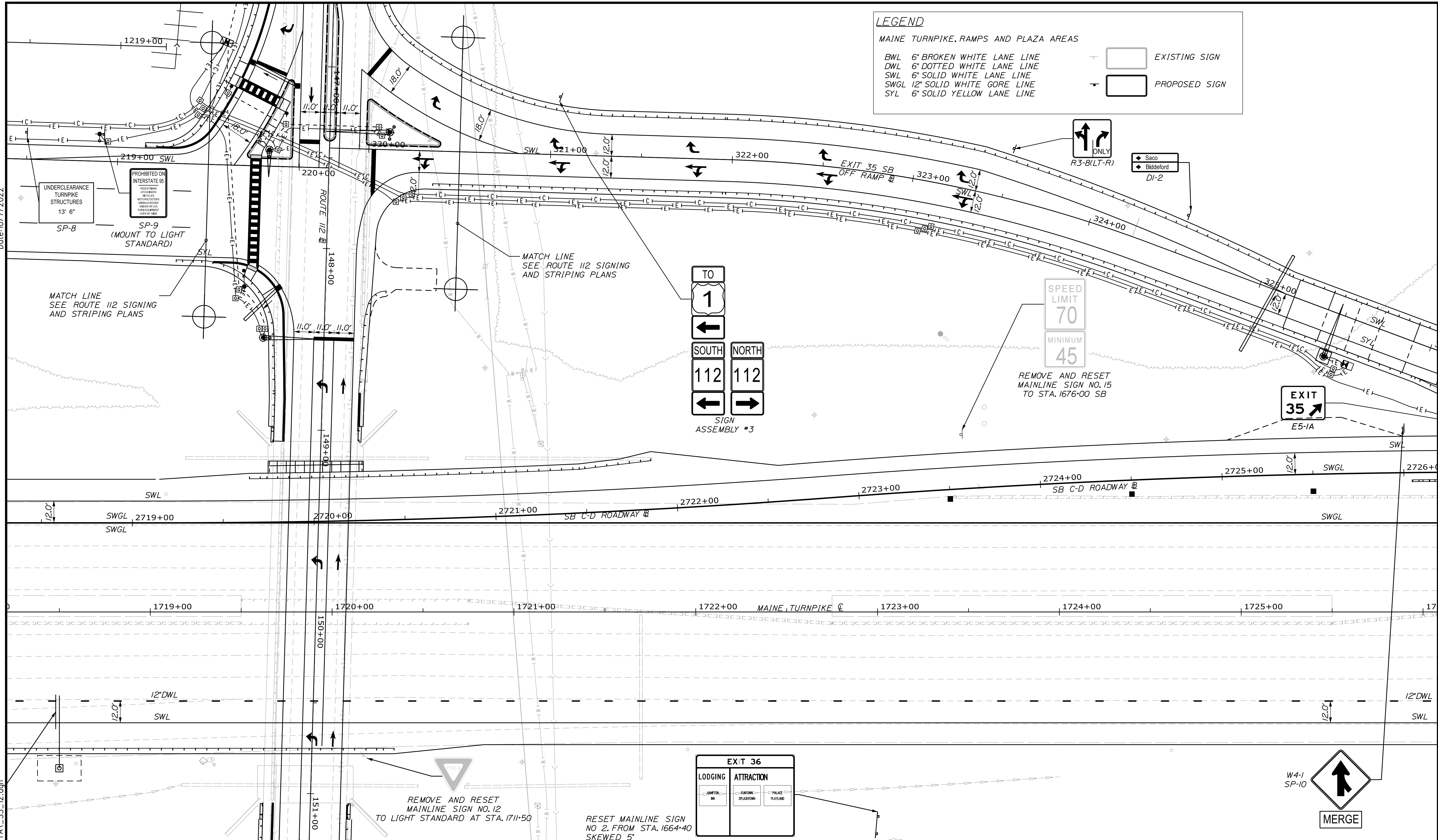
CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\...SS\_12.dgn

**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL 6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL 6" DOTTED WHITE LANE LINE		PROPOSED SIGN
SWL 6" SOLID WHITE LANE LINE		
SWGL 12" SOLID WHITE GORE LINE		
SYL 6" SOLID YELLOW LANE LINE		



Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC



INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 12

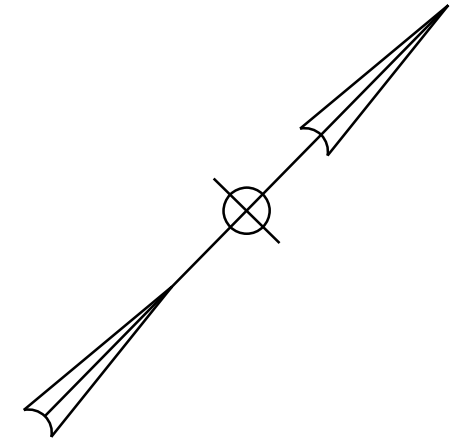
SHEET NUMBER: SS-14  
 206 OF 735

CONTRACT: 2022.07

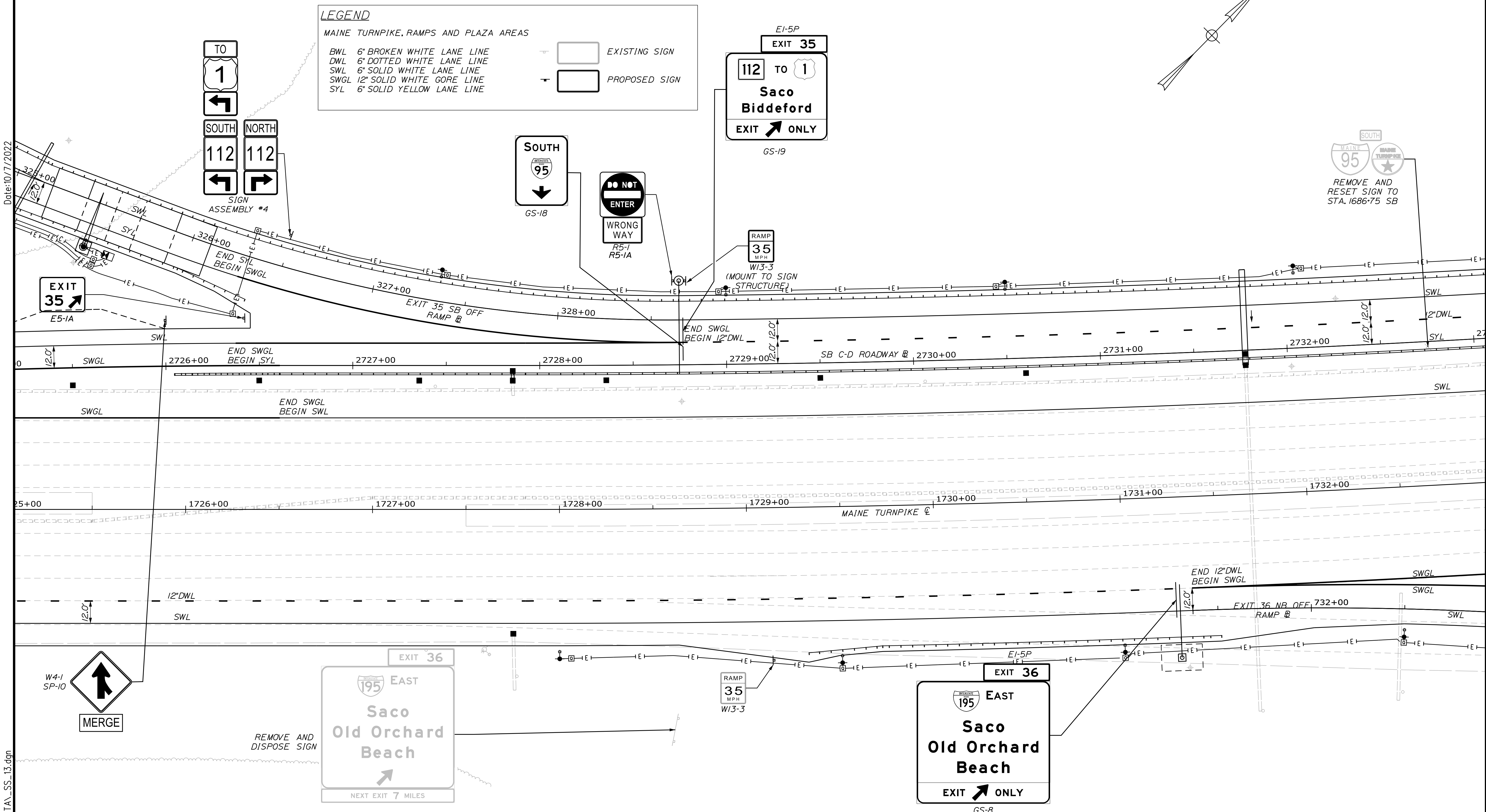
**LEGEND**  
 MAINE TURNPIKE, RAMP AND PLAZA AREAS


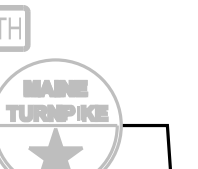
- BWL 6" BROKEN WHITE LANE LINE
- DWL 6" DOTTED WHITE LANE LINE
- SWL 6" SOLID WHITE LANE LINE
- SWGL 12" SOLID WHITE GORE LINE
- SYL 6" SOLID YELLOW LANE LINE

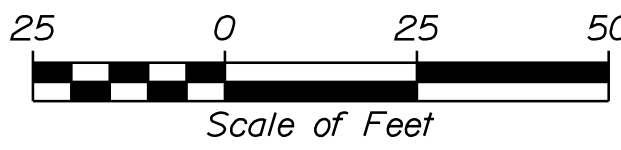
 EXISTING SIGN  
 PROPOSED SIGN



Date: 10/17/2022




 SOUTH  
  
 REMOVE AND RESET SIGN TO STA. 1686+75 SB

Scale:  Scale of Feet

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376



**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 13

SHEET NUMBER: SS-15  
 207 OF 735

CONTRACT: 2022.07

**LEGEND**

MAINE TURNPIKE, RAMPS AND PLAZA AREAS

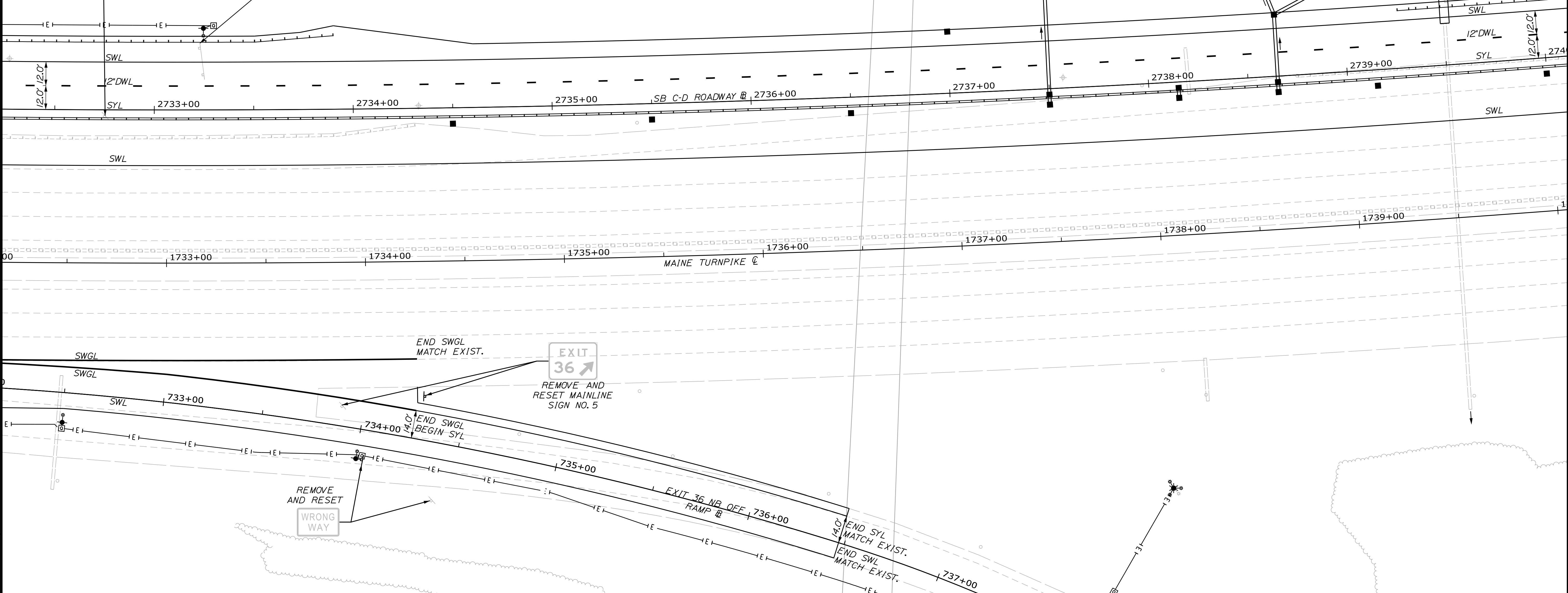
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DWL 6" DOTTED WHITE LANE LINE		
SWL 6" SOLID WHITE LANE LINE		
SWGL 12" SOLID WHITE GORE LINE		
SYL 6" SOLID YELLOW LANE LINE		
		EXISTING SIGN
		PROPOSED SIGN

Date: 10/17/2022

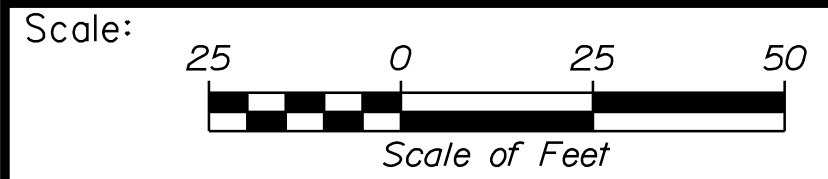
REMOVE AND RESET SIGN TO STA. 1686+75 SB

SERVICE PLAZA  
 FOOD - FUEL  
 9 MILES

REMOVE AND RESET MAINLINE SIGN NO. 4 TO STA. 1680+00 SB



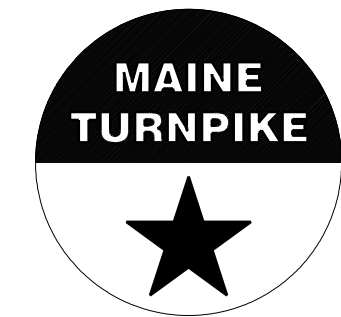
Filename: ...:\00\HIGHWAY\MSTA\\_SS\_14.dgn



Designed by:



STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376



**THE GOLD STAR  
 MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

SIGNING AND STRIPING PLAN 14

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: SS-16

208 OF 735





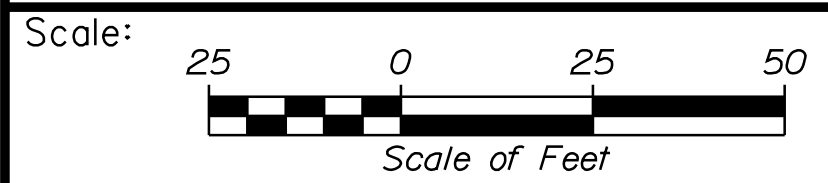
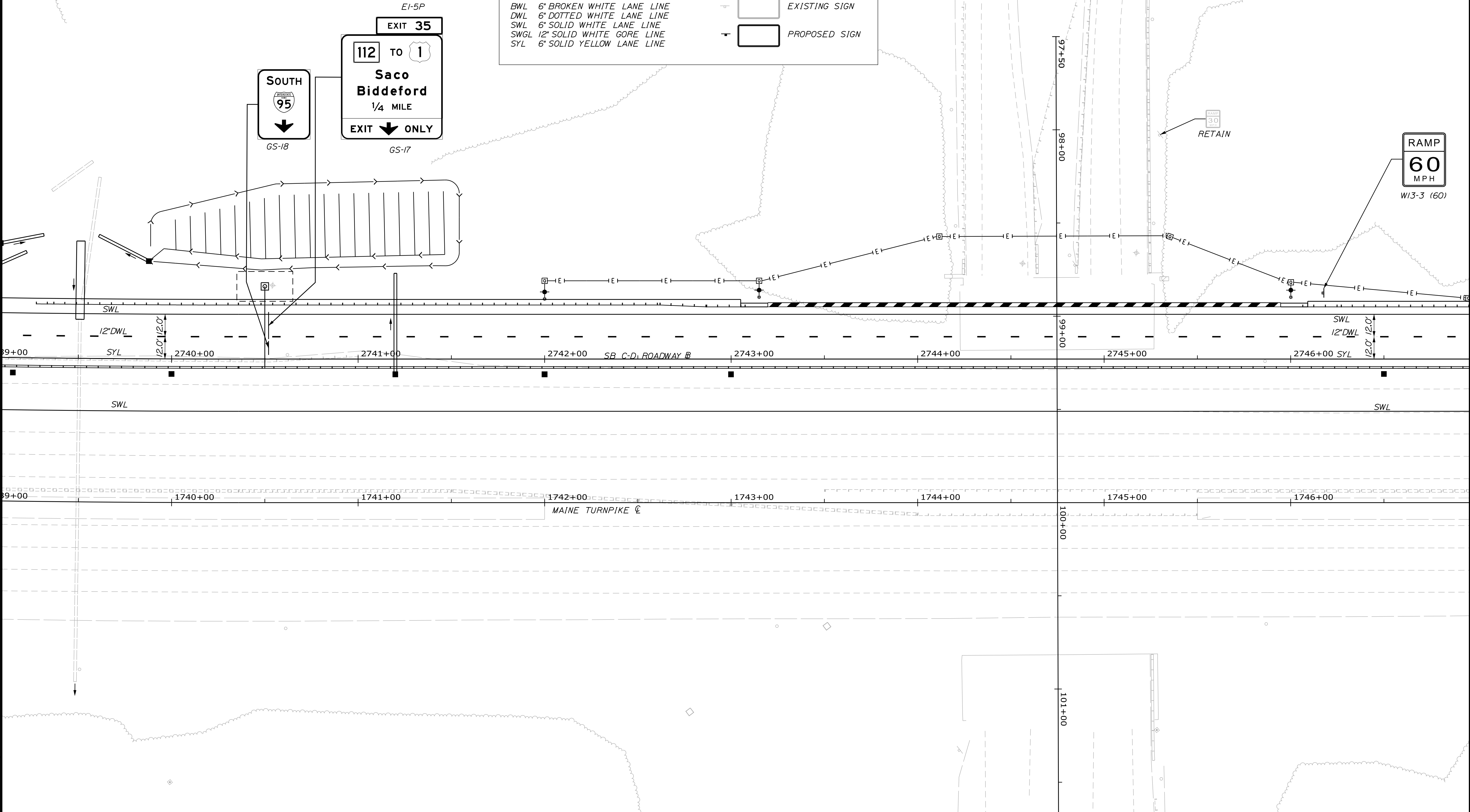
Date: 10/17/2022

Filename: ...:\00\HIGHWAY\MSTA\...SS\_15.dgn


**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

- BWL 6" BROKEN WHITE LANE LINE
- DWL 6" DOTTED WHITE LANE LINE
- SWL 6" SOLID WHITE LANE LINE
- SWGL 12" SOLID WHITE GORE LINE
- SYL 6" SOLID YELLOW LANE LINE

 EXISTING SIGN  
 PROPOSED SIGN



Designed by:

 **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

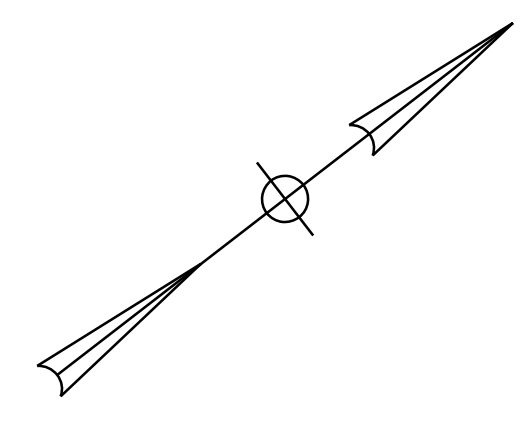
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

SIGNING AND STRIPING PLAN 15

SHEET NUMBER: SS-17  
 209 OF 735

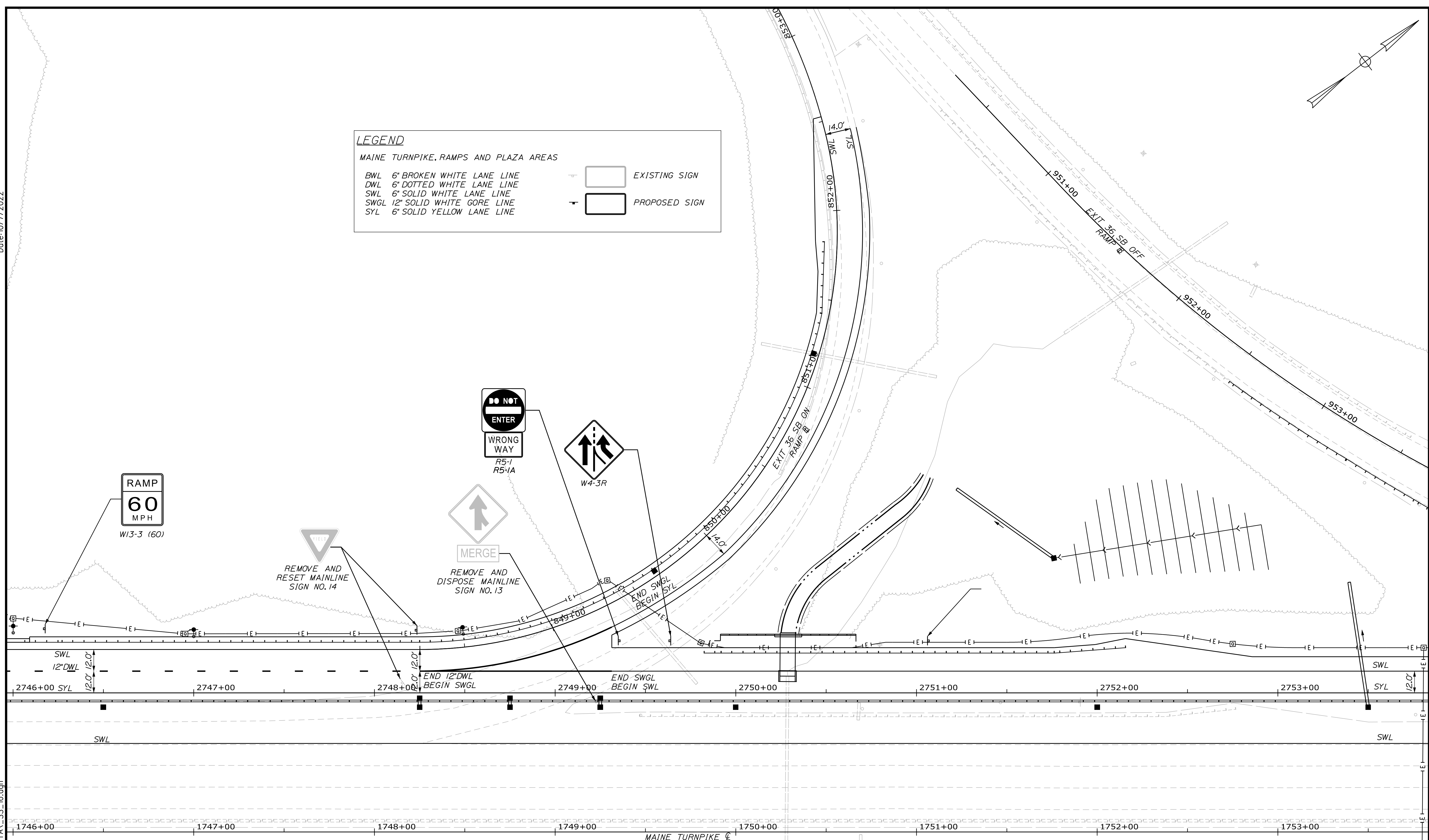
CONTRACT: 2022.07

Date: 10/17/2022



**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL 6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL 6" DOTTED WHITE LANE LINE		PROPOSED SIGN
SWL 6" SOLID WHITE LANE LINE		
SWGL 12" SOLID WHITE GORE LINE		
SYL 6" SOLID YELLOW LANE LINE		



Filename: ...:\00\HIGHWAY\MASTA\_SS\_16.dgn

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 16

SHEET NUMBER: SS-18  
 210 OF 735

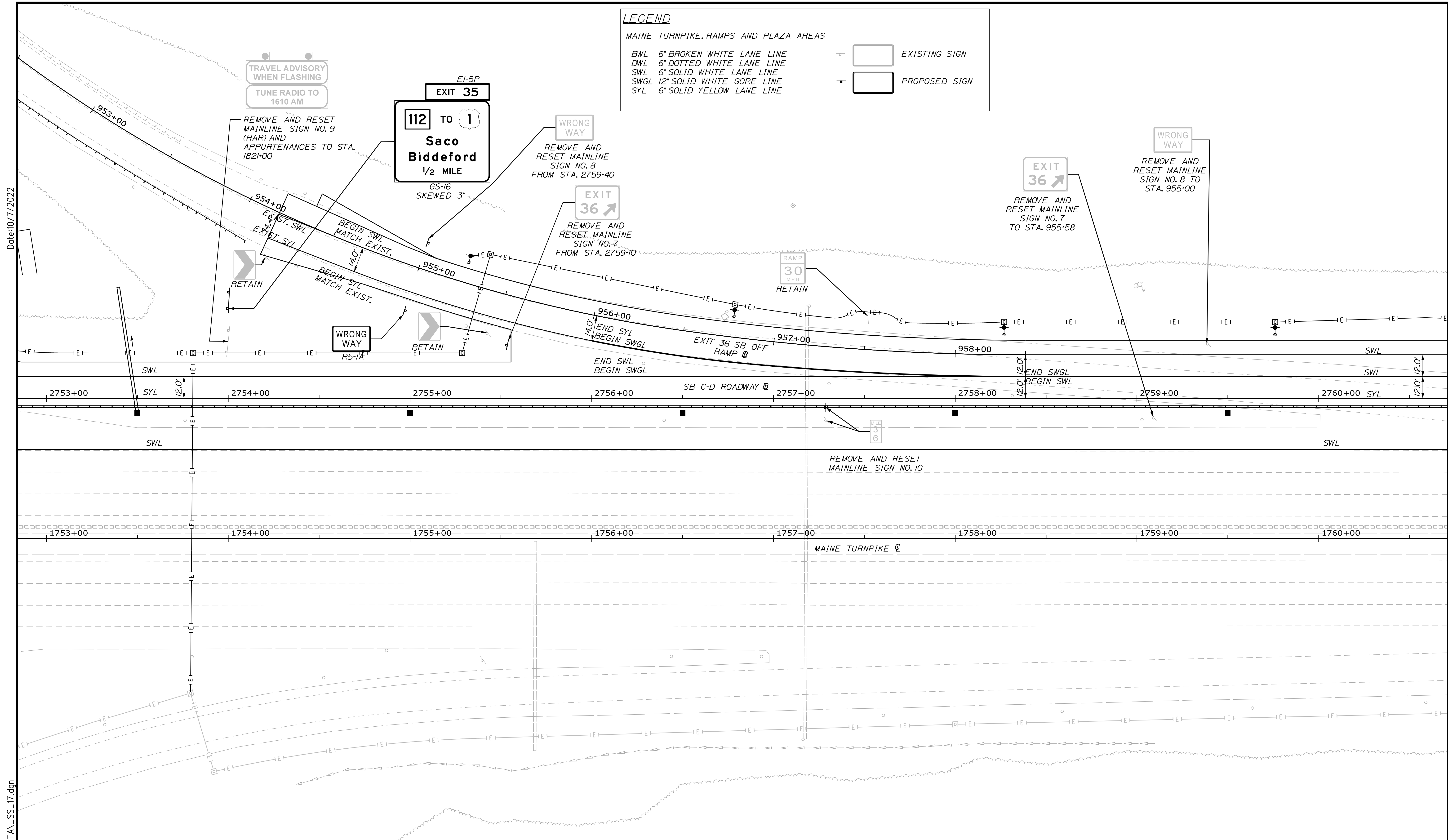
CONTRACT: 2022.07

**LEGEND**

MAINE TURNPIKE, RAMPS AND PLAZA AREAS

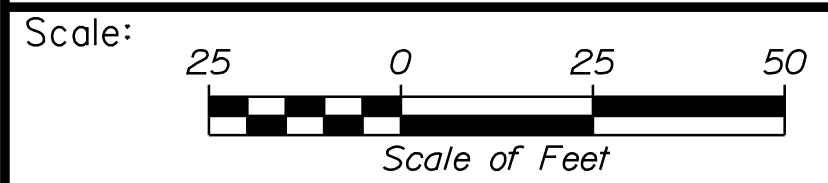
BWL 6" BROKEN WHITE LANE LINE  
 DWL 6" DOTTED WHITE LANE LINE  
 SWL 6" SOLID WHITE LANE LINE  
 SWGL 12" SOLID WHITE GORE LINE  
 SYL 6" SOLID YELLOW LANE LINE

EXISTING SIGN  
 PROPOSED SIGN



Date: 10/17/2022

Filename: ...100\HIGHWAY\MSTA\...SS\_17.dgn



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

SIGNING AND STRIPING PLAN 17

SHEET NUMBER: SS-19  
 211 OF 735

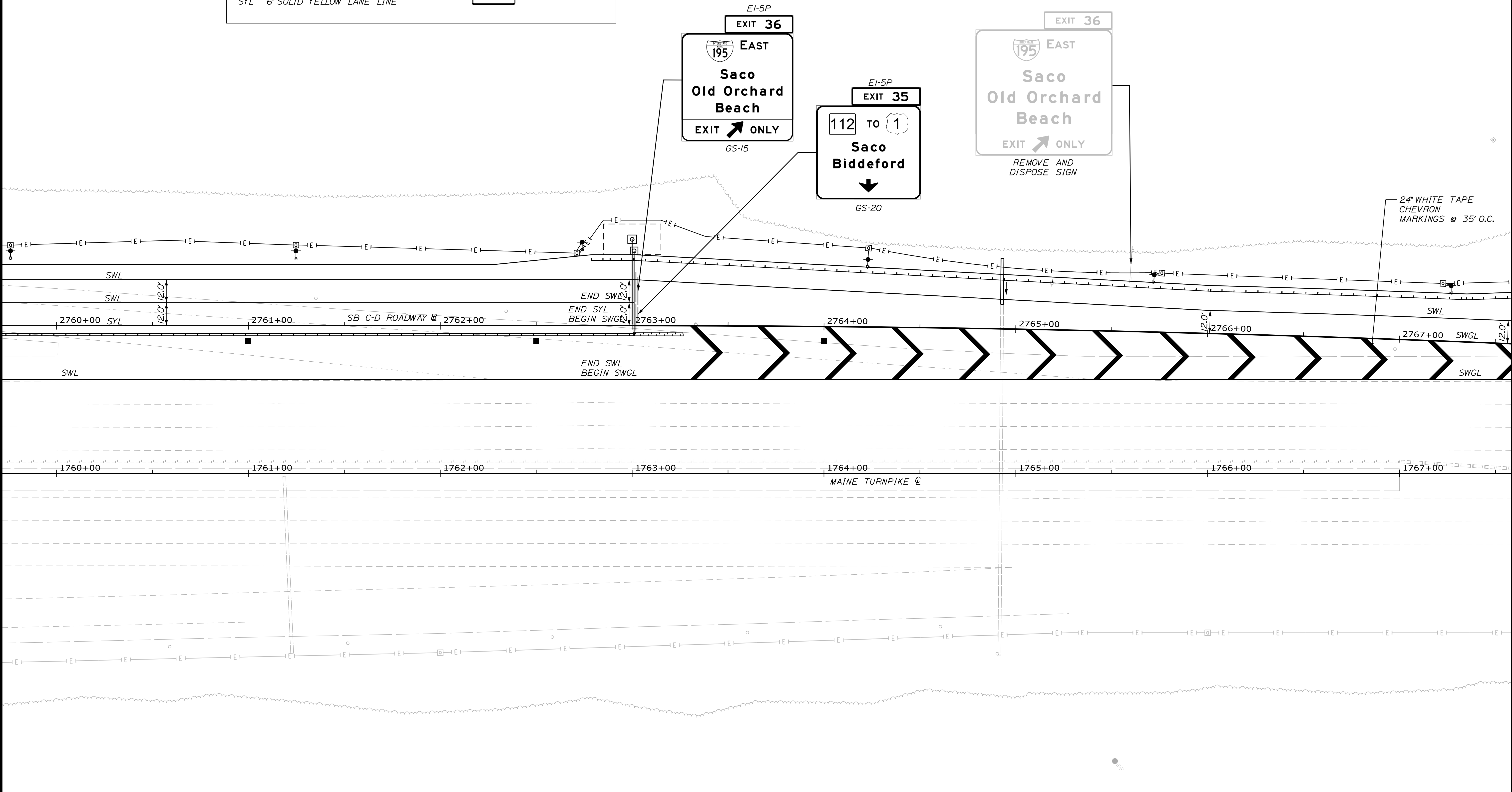
CONTRACT: 2022.07

**LEGEND**

MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL	6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL	6" DOTTED WHITE LANE LINE		PROPOSED SIGN
SWL	6" SOLID WHITE LANE LINE		
SWGL	12" SOLID WHITE GORE LINE		
SYL	6" SOLID YELLOW LANE LINE		

Date: 10/17/2022



Scale:

Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

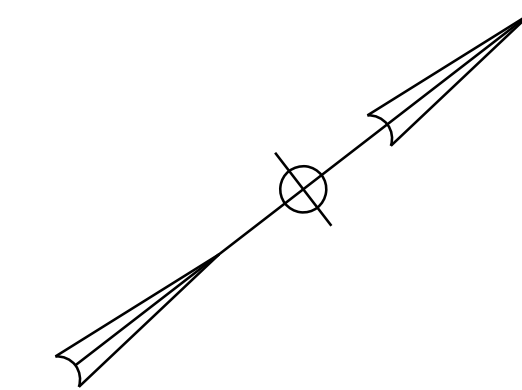
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 18

SHEET NUMBER: SS-20  
 CONTRACT: 2022.07  
 212 OF 735

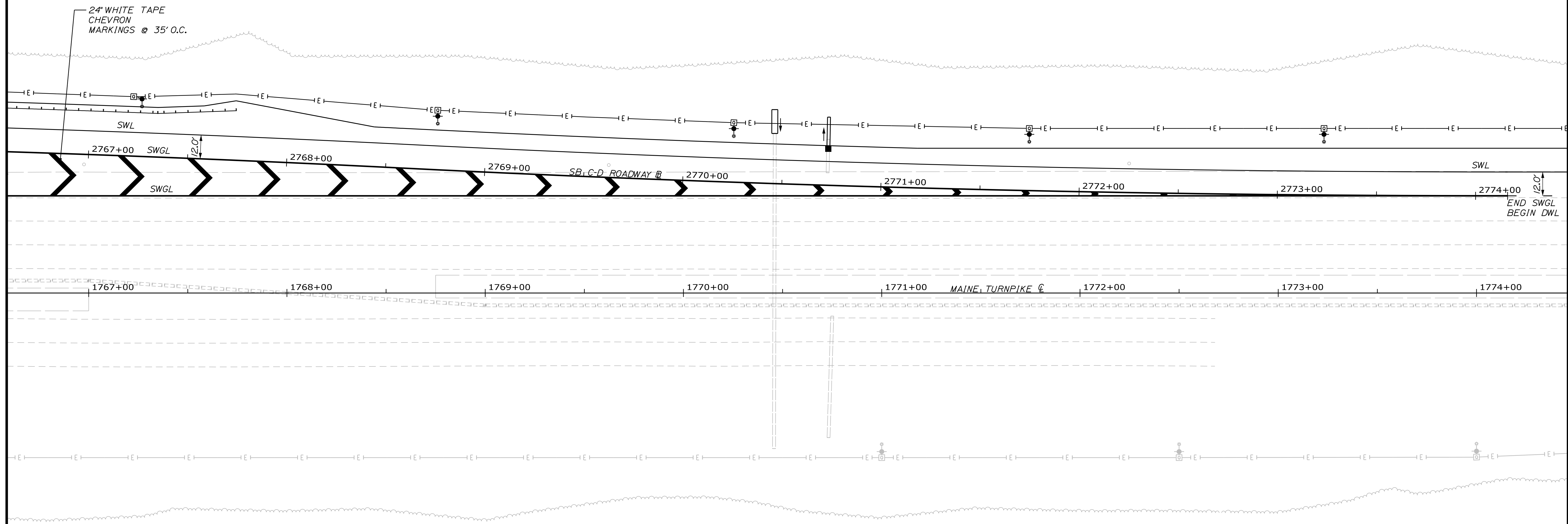
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**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

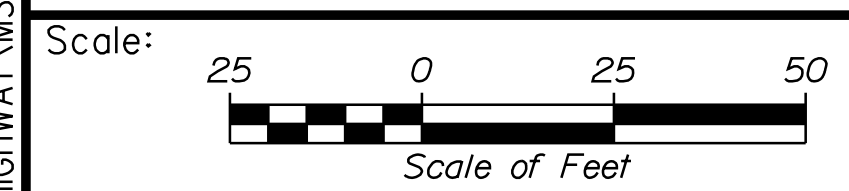
BWL 6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL 6" DOTTED WHITE LANE LINE		
SWL 6" SOLID WHITE LANE LINE		
SWGL 12" SOLID WHITE GORE LINE		
SYL 6" SOLID YELLOW LANE LINE		
		EXISTING SIGN
		PROPOSED SIGN




Date: 10/17/2022



Filename: ...:\00\HIGHWAY\MSTA\...SS\_19.dgn



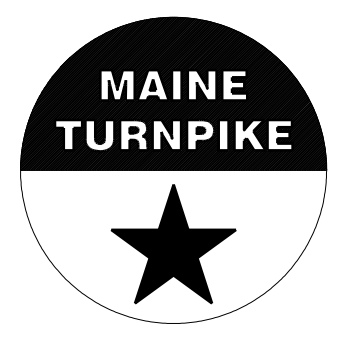
Designed by: 

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
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 **THE GOLD STAR MEMORIAL HIGHWAY**

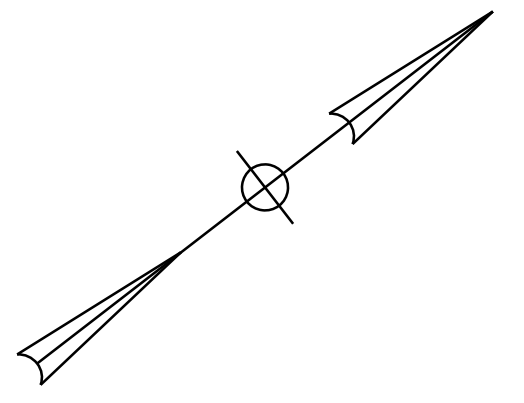
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 19

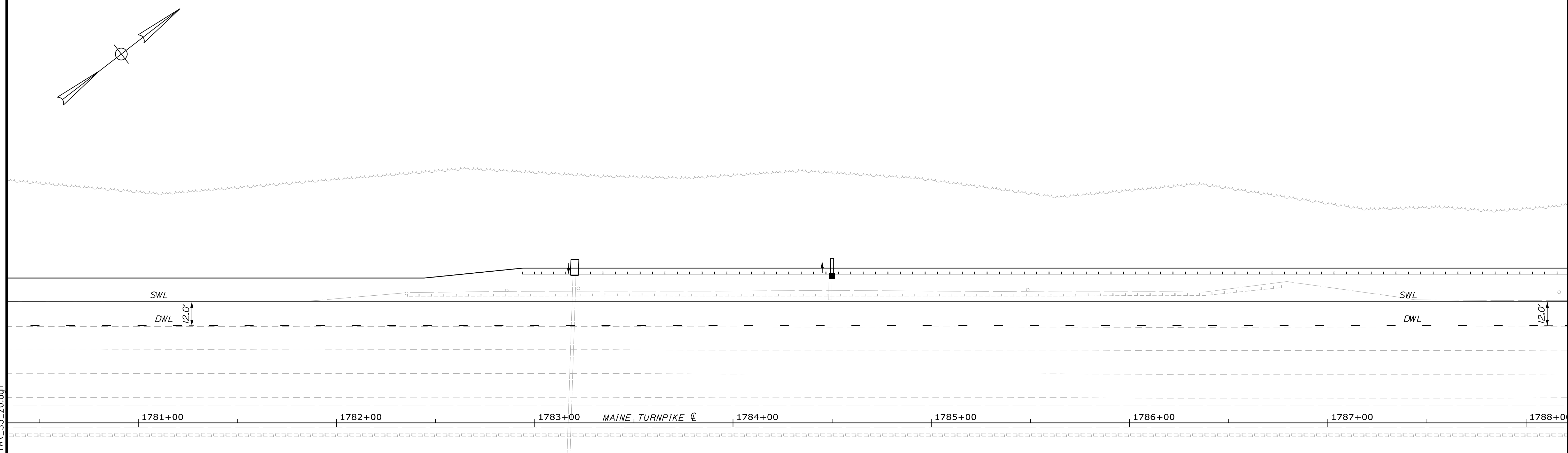
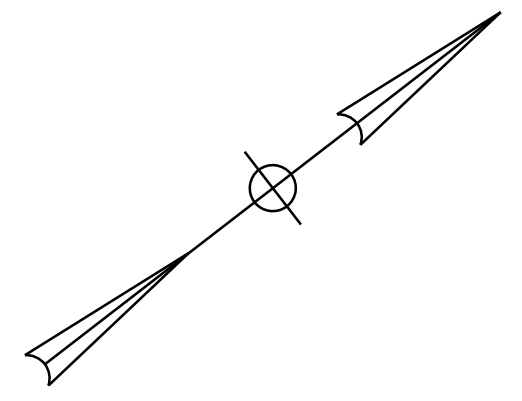
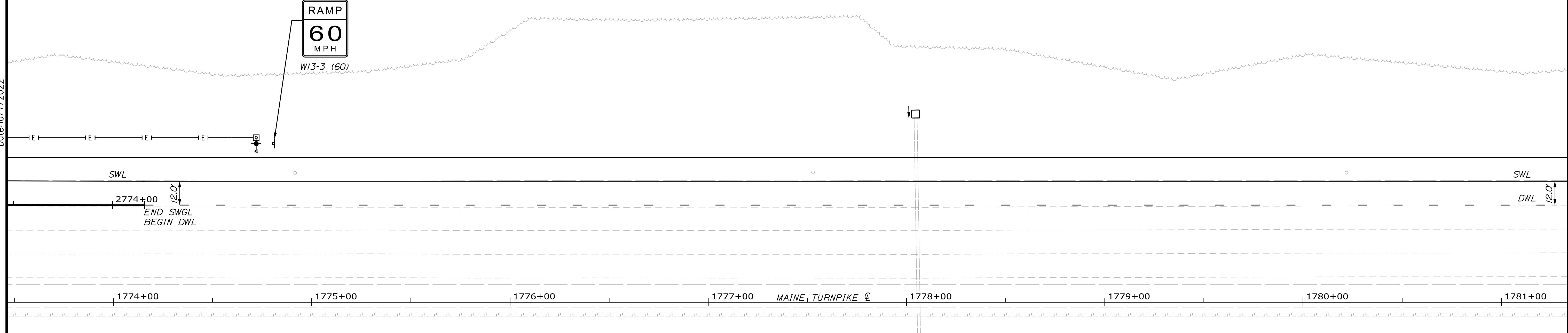
SHEET NUMBER: SS-21  
 CONTRACT: 2022.07  
 213 OF 735

**LEGEND**  
 MAINE TURNPIKE, RAMPS AND PLAZA AREAS

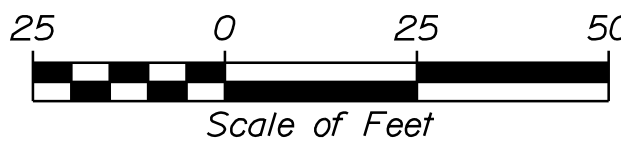
BWL 6" BROKEN WHITE LANE LINE		EXISTING SIGN
DWL 6" DOTTED WHITE LANE LINE		PROPOSED SIGN
SWL 6" SOLID WHITE LANE LINE		
SWGL 12" SOLID WHITE GORE LINE		
SYL 6" SOLID YELLOW LANE LINE		



Date: 10/17/2022




Filename: ...:\00\HIGHWAY\MSTA\_SS\_20.dgn

Scale:  Scale of Feet

No.	Revision	By	Date

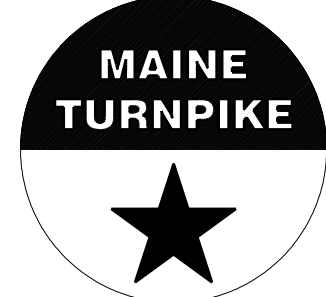
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376



**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 20

SHEET NUMBER: SS-22  
 CONTRACT: 2022.07  
 214 OF 735

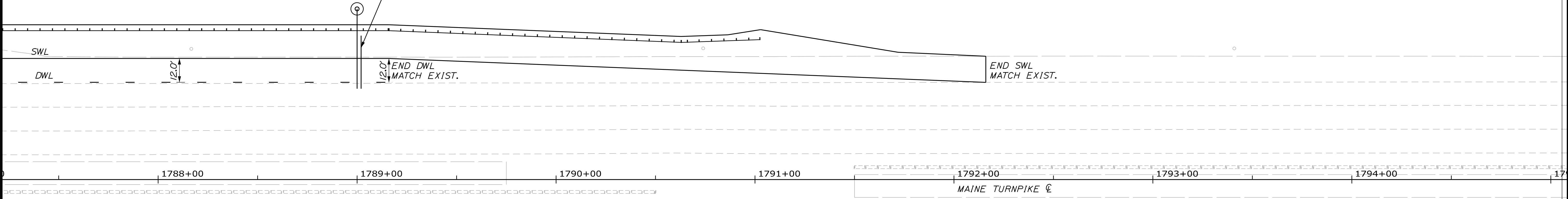
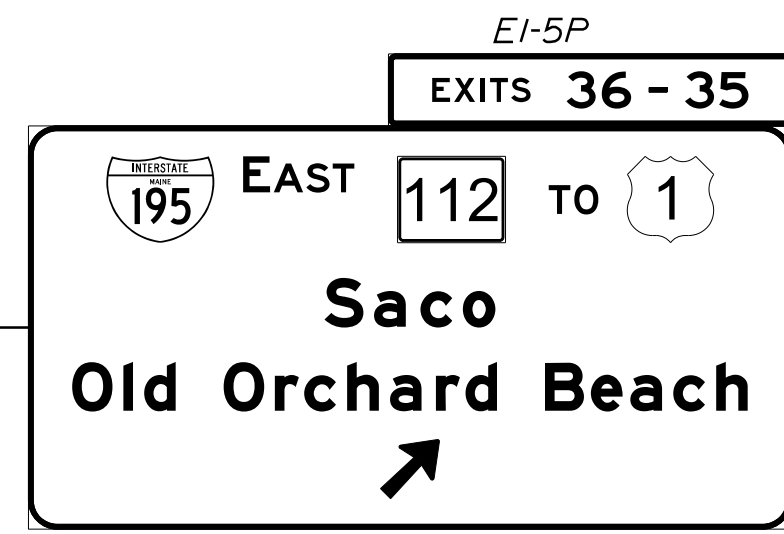
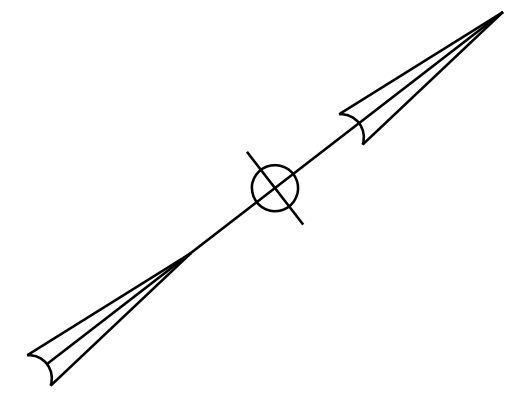
Date: 10/7/2022

**LEGEND**

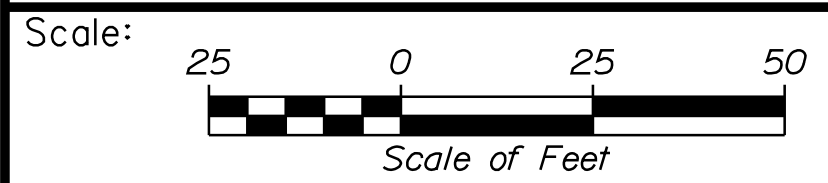
MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL 6" BROKEN WHITE LANE LINE  
 DWL 6" DOTTED WHITE LANE LINE  
 SWL 6" SOLID WHITE LANE LINE  
 SWGL 12" SOLID WHITE GORE LINE  
 SYL 6" SOLID YELLOW LANE LINE

EXISTING SIGN  
 PROPOSED SIGN



Filename: ...:\00\HIGHWAY\MSTA\...SS\_21.dgn



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 21

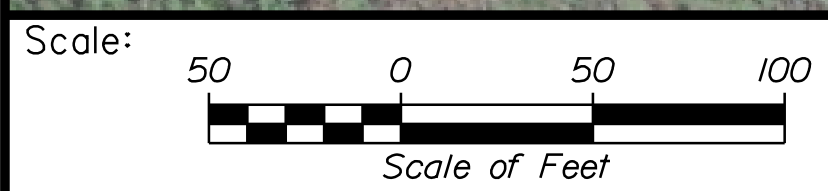
SHEET NUMBER: SS-23  
 CONTRACT: 2022.07  
 215 OF 735

Date: 10/7/2022



**LEGEND**  
MAINE TURNPIKE, RAMPS AND PLAZA AREAS

BWL	6" BROKEN WHITE LANE LINE	EXISTING SIGN
DWL	6" DOTTED WHITE LANE LINE	
SWL	6" SOLID WHITE LANE LINE	
SWGL	12" SOLID WHITE GORE LINE	PROPOSED SIGN
SYL	6" SOLID YELLOW LANE LINE	



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

SIGNING AND STRIPING PLAN 22

SHEET NUMBER: SS-24  
CONTRACT: 2022.07  
216 OF 735

Filename: ...:\00\HIGHWAY\MSTA\...SS\_22.dgn



Date: 10/17/2022

EXIT 36		
LOGGING	CAMPING	ATTRACTION
HAMPDEN BR.	ROCK	LEAFY BUSHES
RAMBLER	PROVIDE TREE RESIST	PALACE PLAYLAND

RETAIN

PARK-RIDE  
ZOOM  
TURNPIKE EXPRESS  
EXIT 36  
RETAIN

Ferry Beach  
State Park  
Amusement Parks  
EXIT 36  
RETAIN



1835+00 1836+00 1837+00 1838+00 1839+00 1840+00 1841+00 1842+00 1843+00 1844+00 1845+00 1846+00 1847+00 1848+00 1849+00 1850+00 1851+00 1852+00 1853+00 1854+00 1855+00

MAINE TURNPIKE

MAINE TURNPIKE

LEGEND

MAINE TURNPIKE, RAMPS AND PLAZA AREAS

- BWL 6" BROKEN WHITE LANE LINE
  - DWL 6" DOTTED WHITE LANE LINE
  - SWL 6" SOLID WHITE LANE LINE
  - SWGL 12" SOLID WHITE GORE LINE
  - SYL 6" SOLID YELLOW LANE LINE
-  EXISTING SIGN
  -  PROPOSED SIGN

EXIT 36  
195 EAST  
Saco  
Old Orchard  
Beach  
2 MILES  
REMOVE AND  
DISPOSE SIGN

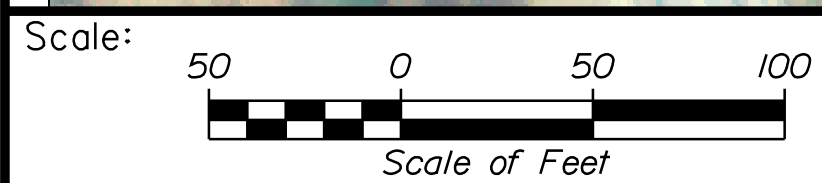
EI-5P  
EXITS 36 - 35  
195 EAST 112 TO 1  
Saco  
Old Orchard Beach  
2 MILES  
GS-9

1866+00 1867+00 1868+00 1869+00 1870+00 1871+00 1872+00 1873+00 1874+00 1875+00 1876+00 1877+00 1878+00 1879+00 1880+00 1881+00

MAINE TURNPIKE

FLAG POND ROAD

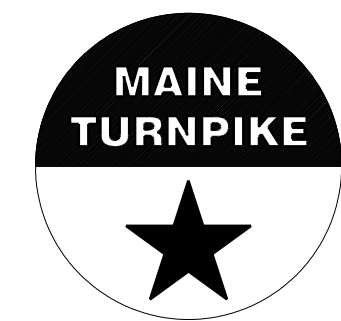
Filename: ...:\00\HIGHWAY\MSTA\...SS\_23.dgn



Designed by:



STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376



THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

SIGNING AND STRIPING PLAN 23

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date
Designed	JRH	10\22	Checked	PLP 10\22
Drawn	CHL	10\22	In Charge of	LEM 10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

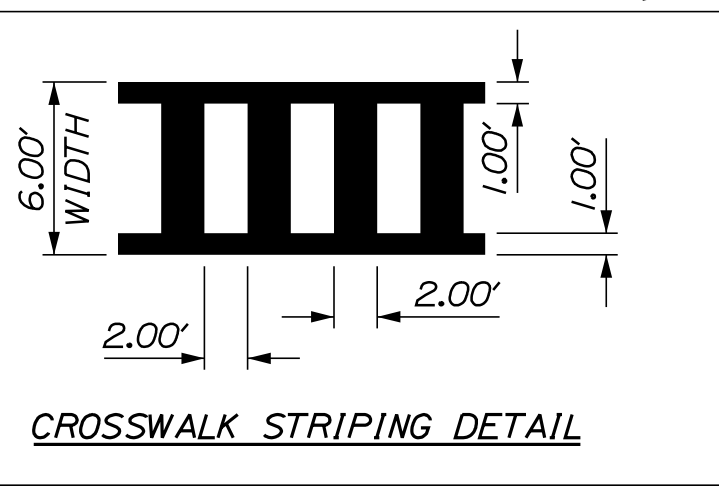
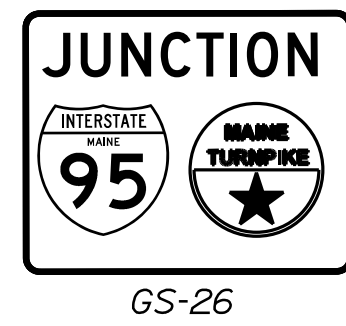
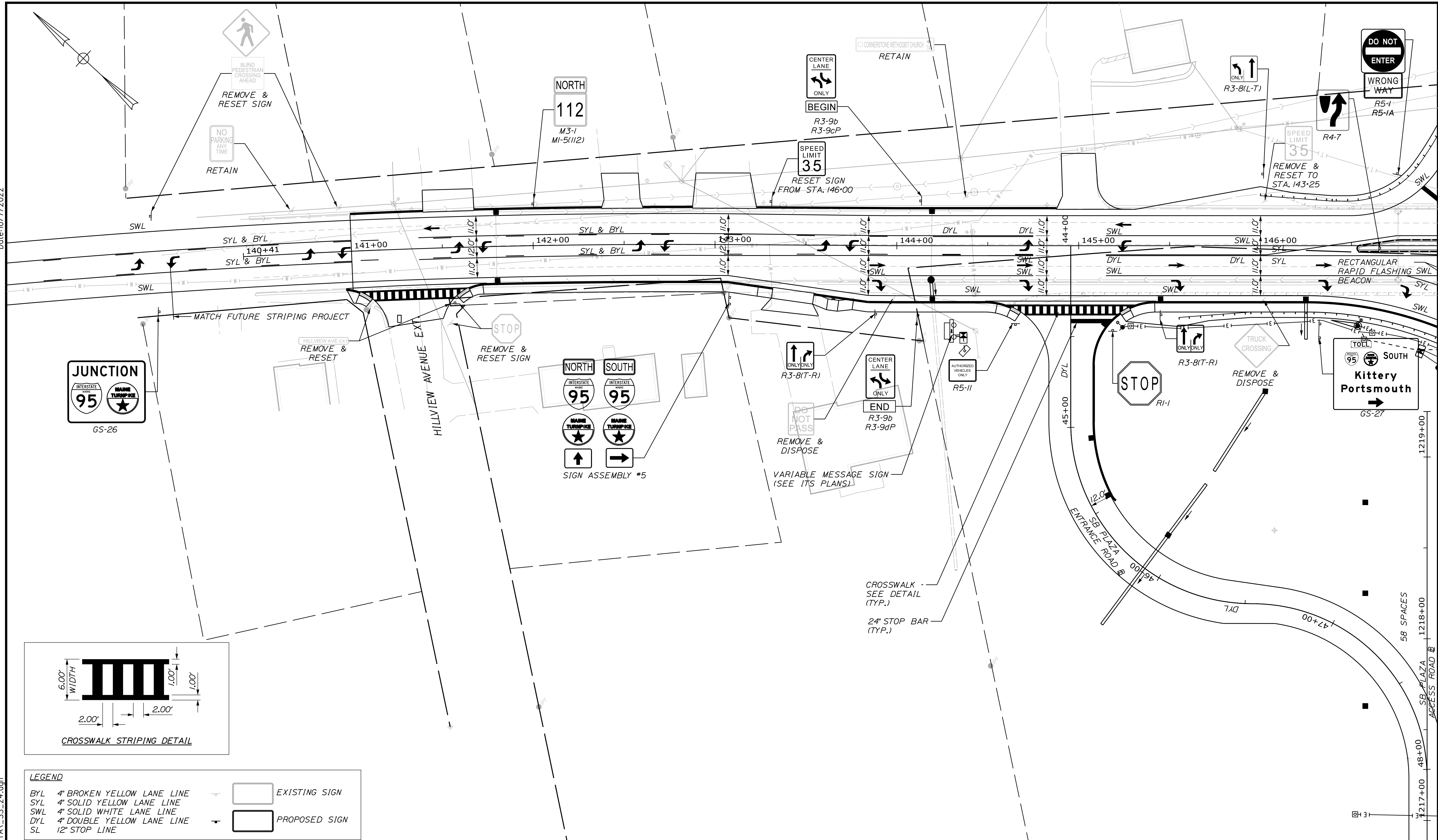
CONTRACT: 2022.07

SHEET NUMBER: SS-25

217 OF 735

Date: 10/7/2022

Filename: ...:\00\HIGHWAY\MSTA\...SS\_24.dgn



**LEGEND**

BYL	4" BROKEN YELLOW LANE LINE	EXISTING SIGN
SYL	4" SOLID YELLOW LANE LINE	PROPOSED SIGN
SWL	4" SOLID WHITE LANE LINE	
DYL	4" DOUBLE YELLOW LANE LINE	
SL	12" STOP LINE	

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

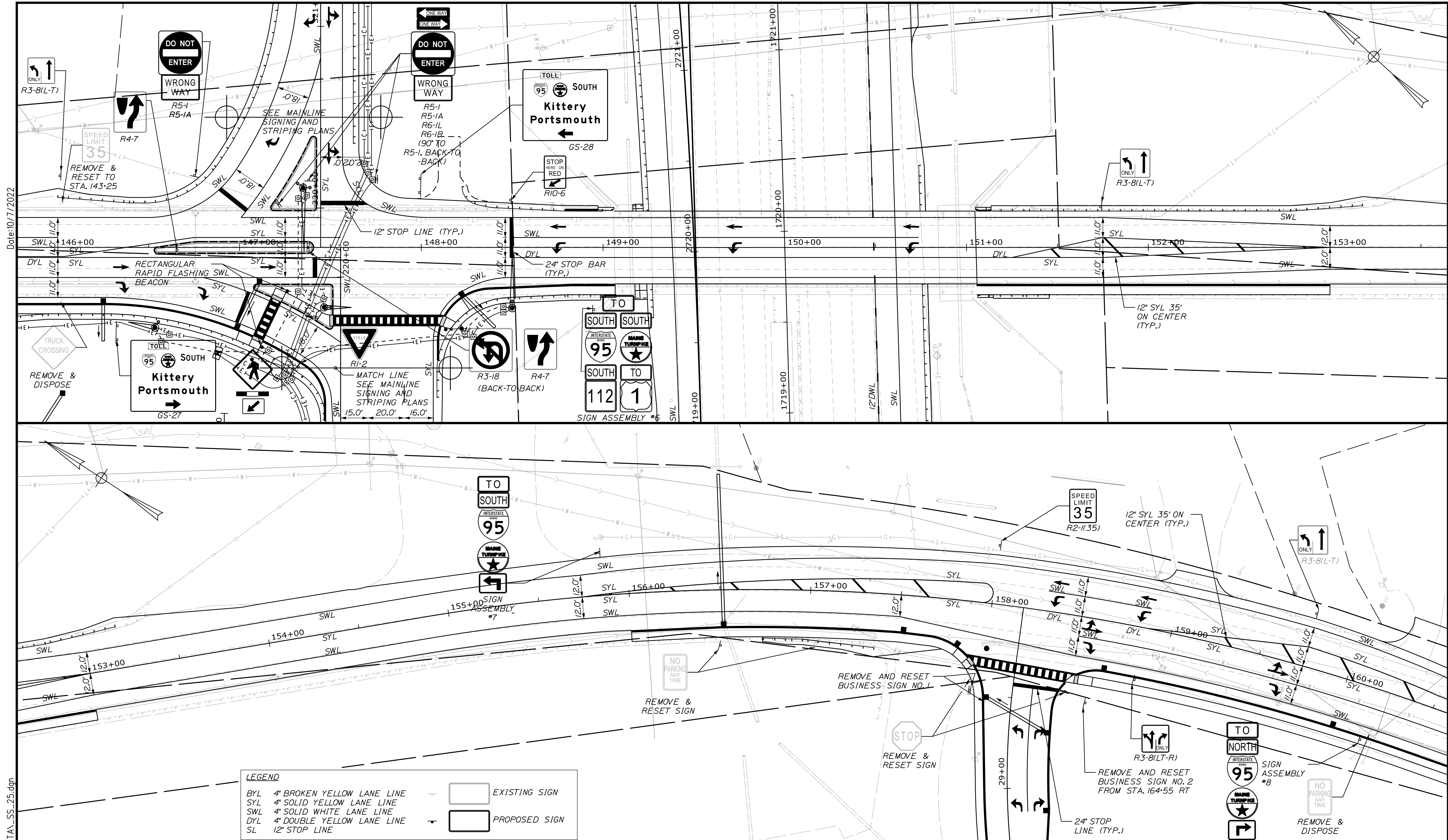
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

**SIGNING AND STRIPING PLAN 24**

SHEET NUMBER: SS-26

CONTRACT: 2022.07

218 OF 735



Date: 10/17/2022

Filename: ...100.HIGHWAY\MSTA1\_SS\_25.dgn

**LEGEND**

BYL 4" BROKEN YELLOW LANE LINE	EXISTING SIGN
SYL 4" SOLID YELLOW LANE LINE	
SWL 4" SOLID WHITE LANE LINE	PROPOSED SIGN
DYL 4" DOUBLE YELLOW LANE LINE	
SL 12" STOP LINE	

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

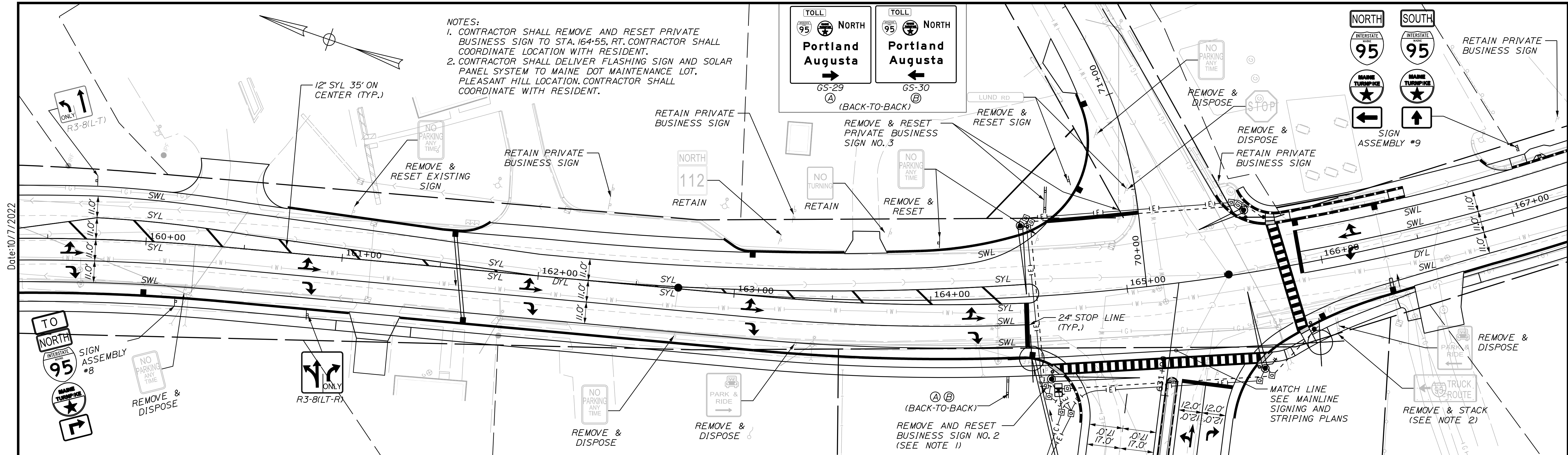
STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

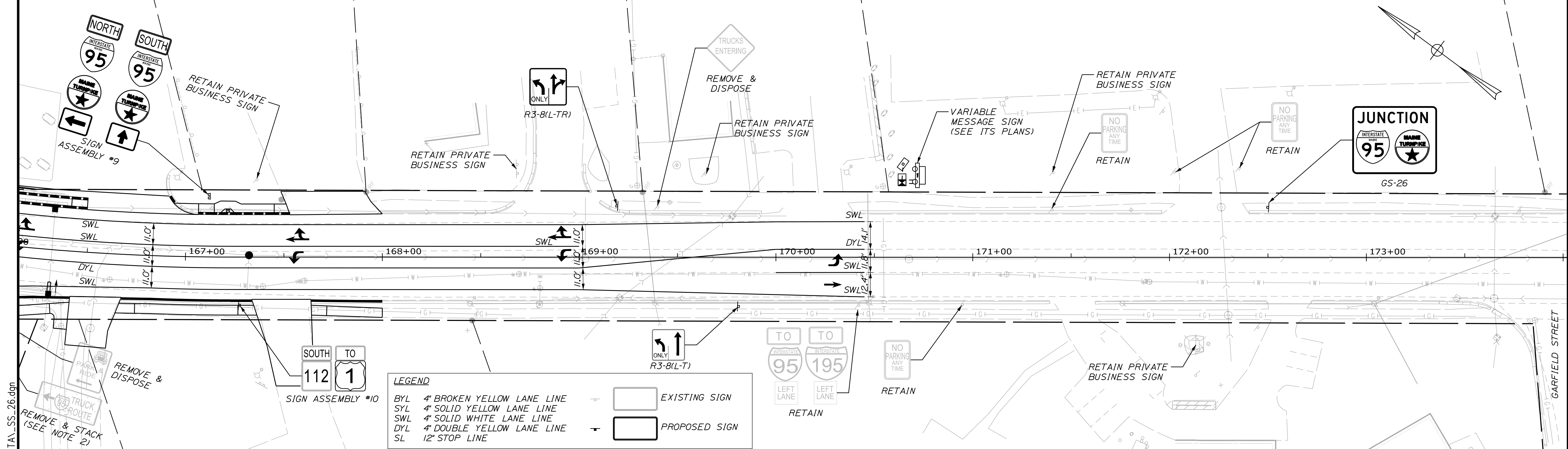
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
SIGNING AND STRIPING PLAN 25

SHEET NUMBER: SS-27  
CONTRACT: 2022.07  
219 OF 735



**NOTES:**  
 1. CONTRACTOR SHALL REMOVE AND RESET PRIVATE BUSINESS SIGN TO STA. 164+55, RT. CONTRACTOR SHALL COORDINATE LOCATION WITH RESIDENT.  
 2. CONTRACTOR SHALL DELIVER FLASHING SIGN AND SOLAR PANEL SYSTEM TO MAINE DOT MAINTENANCE LOT, PLEASANT HILL LOCATION. CONTRACTOR SHALL COORDINATE WITH RESIDENT.

Date: 10/7/2022



**LEGEND**

BYL	4" BROKEN YELLOW LANE LINE	EXISTING SIGN
SYL	4" SOLID YELLOW LANE LINE	PROPOSED SIGN
SWL	4" SOLID WHITE LANE LINE	
DYL	4" DOUBLE YELLOW LANE LINE	
SL	12" STOP LINE	

Filename: ...100\HIGHWAY\NSTA...SS\_26.dgn

Scale: 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

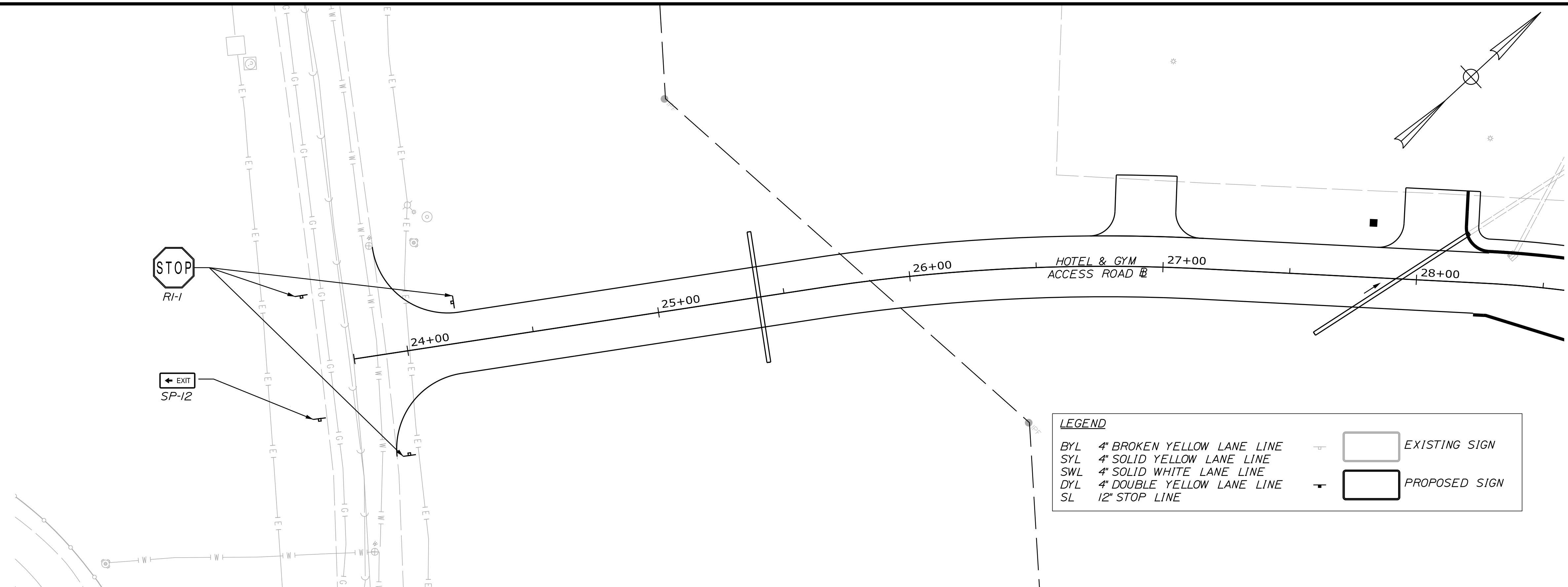
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 SIGNING AND STRIPING PLAN 26

SHEET NUMBER: SS-28  
 220 OF 735

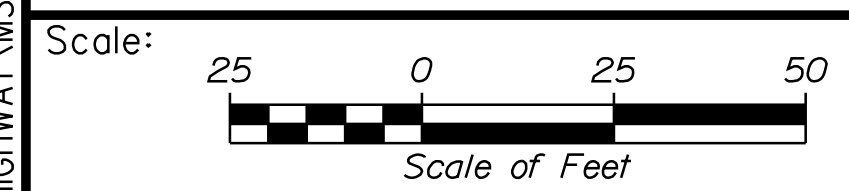
CONTRACT: 2022.07

Date: 10/17/2022



LEGEND	
BYL 4" BROKEN YELLOW LANE LINE	EXISTING SIGN
SYL 4" SOLID YELLOW LANE LINE	
SWL 4" SOLID WHITE LANE LINE	
DYL 4" DOUBLE YELLOW LANE LINE	PROPOSED SIGN
SL 12" STOP LINE	

Filename: ...:\00\HIGHWAY\MSTA\...SS\_27.dgn



Designed by:

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

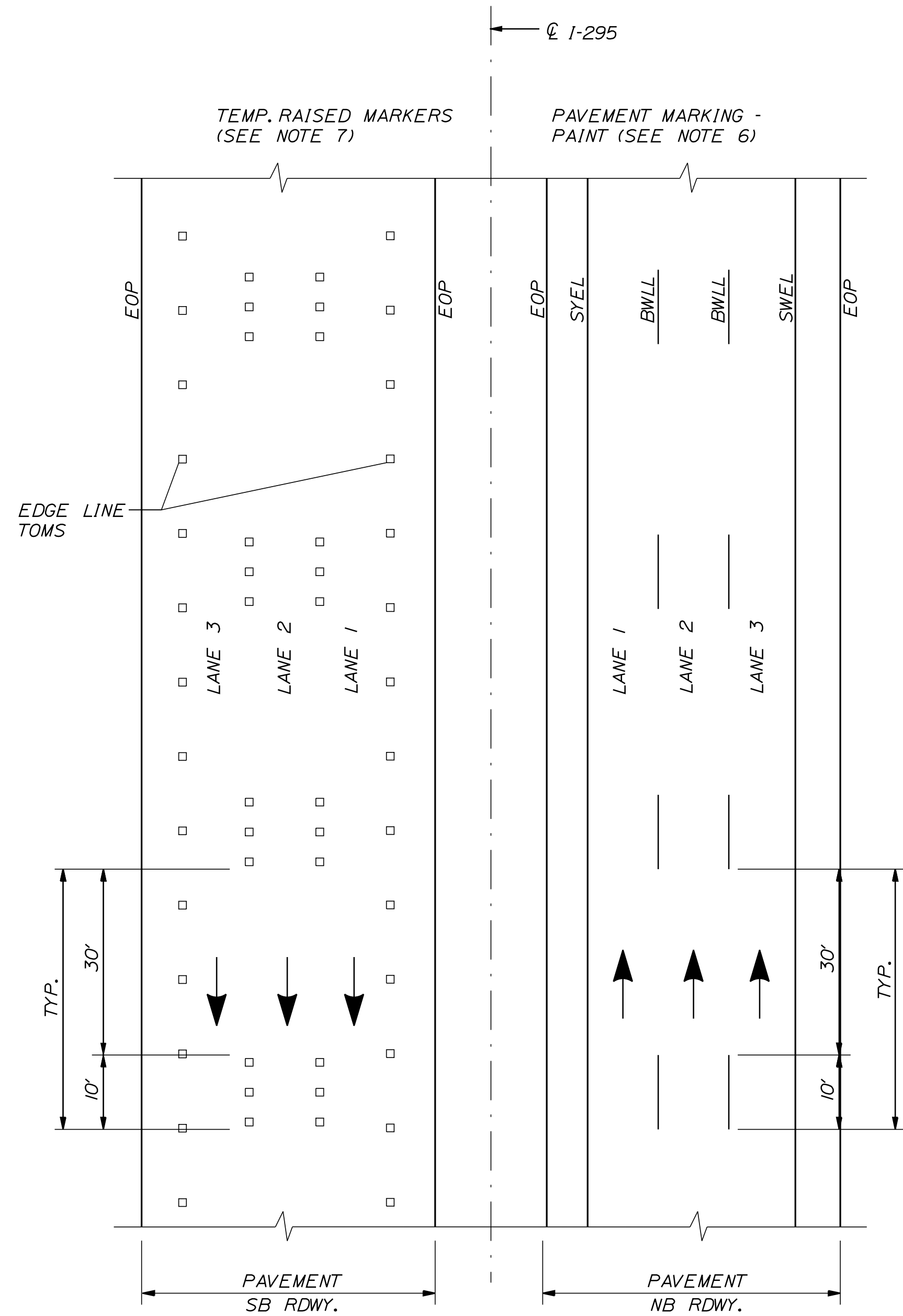
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
SIGNING AND STRIPING PLAN 27

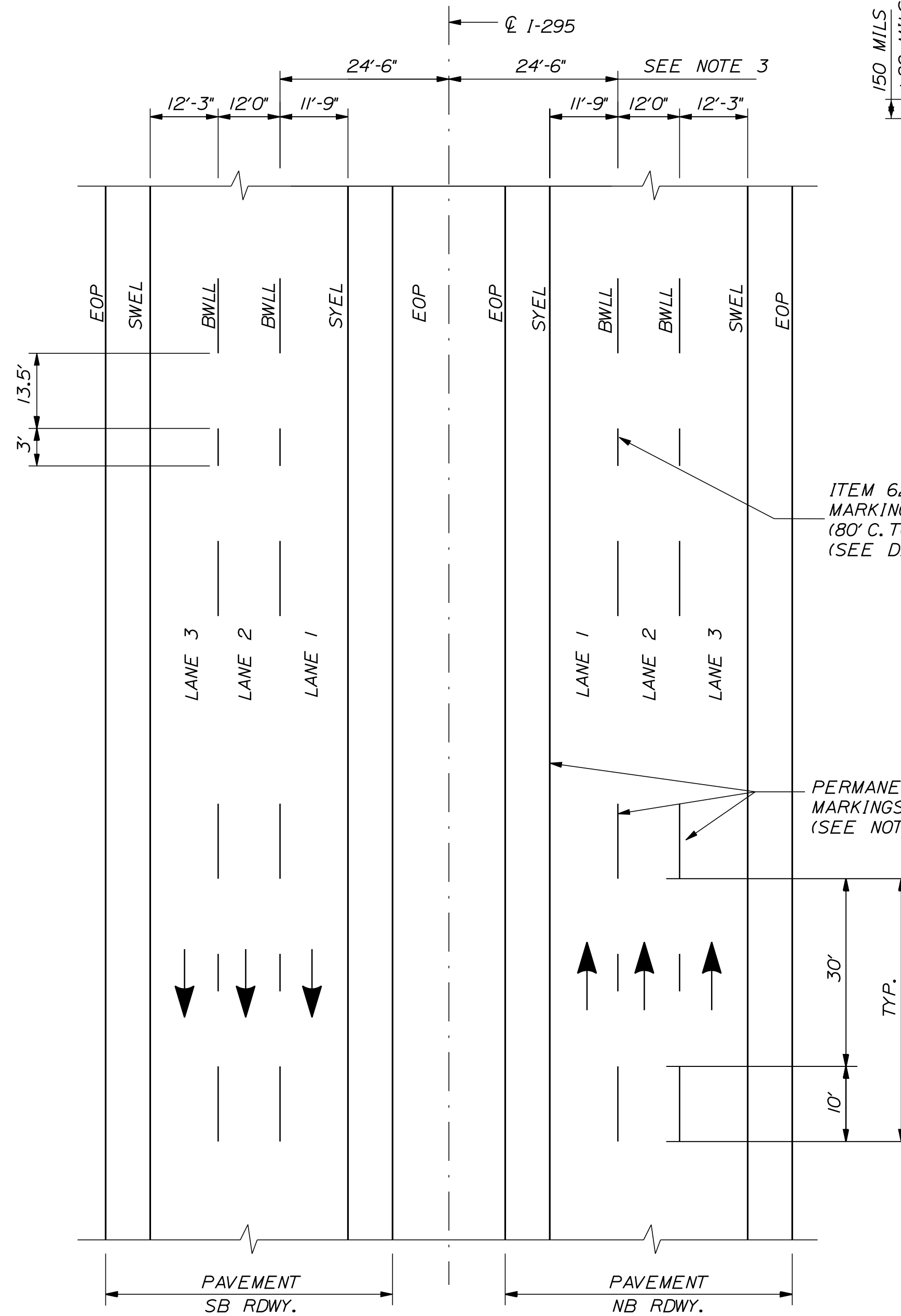
SHEET NUMBER: SS-29  
2210F 735

CONTRACT: 2022.07

Date: 10/17/2022



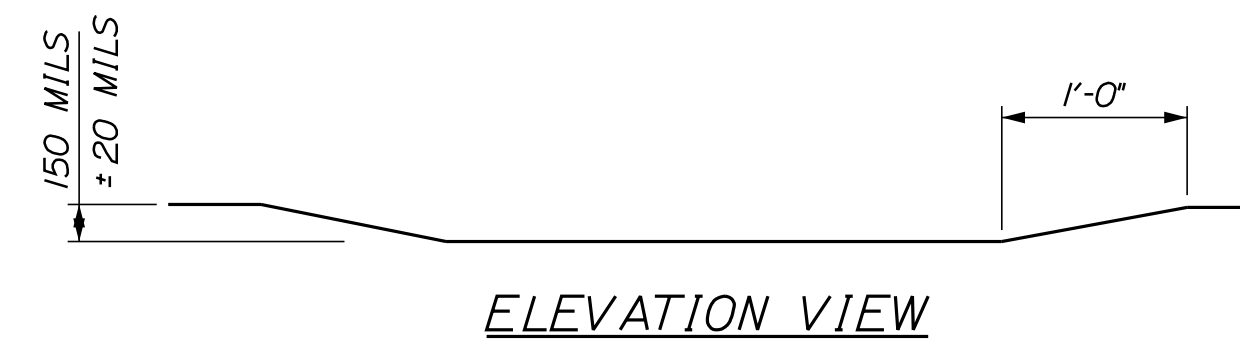
**TEMP. PAVEMENT MARKINGS  
3 LANE RDWY**



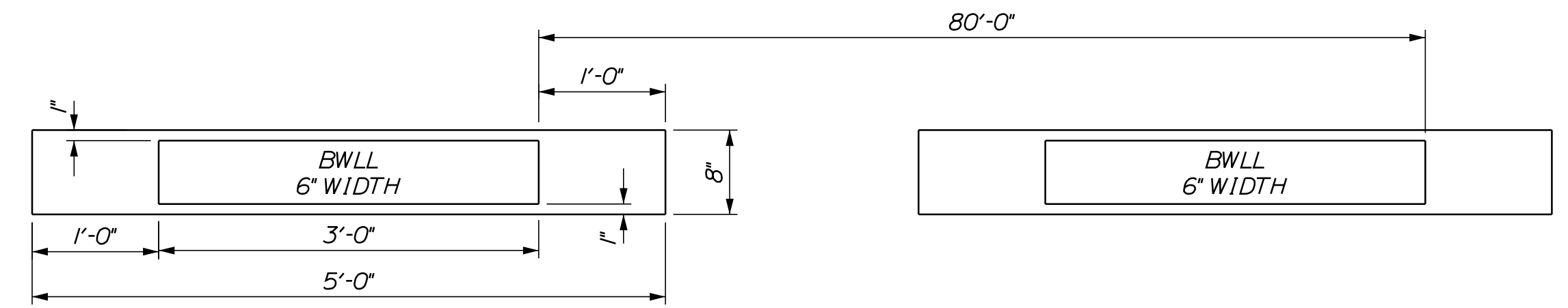
**PERMANENT PAVEMENT MARKINGS  
3 LANE RDWY**

**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

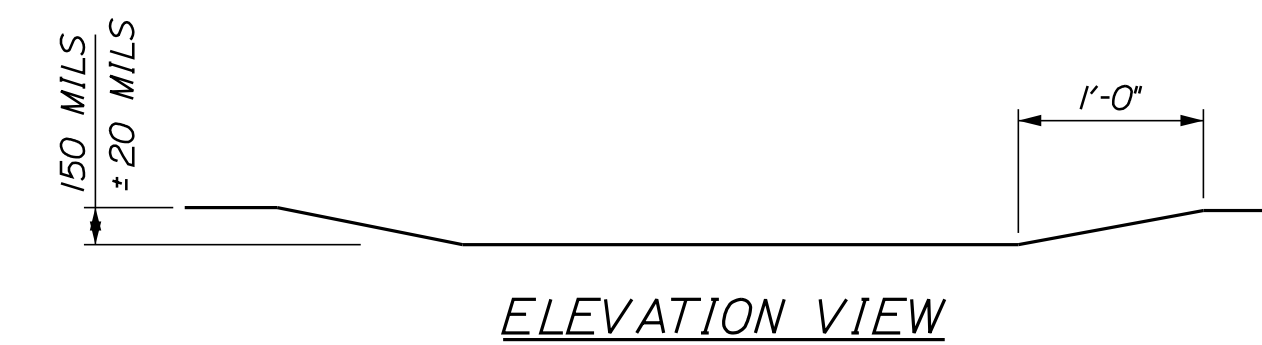


**ELEVATION VIEW**

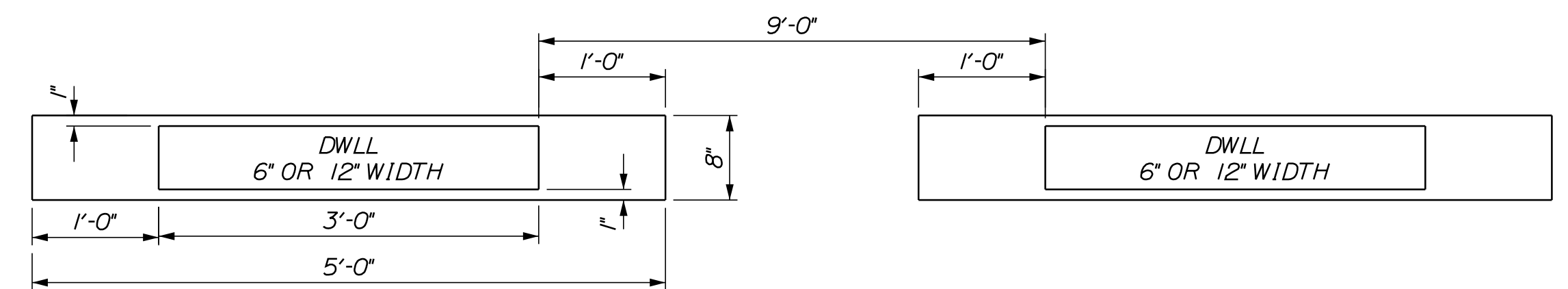


**PLAN VIEW**

**ITEM 627.94 - PERMANENT PAVEMENT  
MARKINGS WITH TAPE  
GROOVING DETAIL  
N.T.S.**



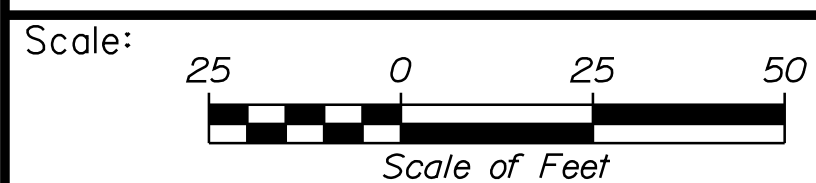
**ELEVATION VIEW**



**PLAN VIEW  
DWLL PERMANENT PAVEMENT  
MARKINGS WITH TAPE  
GROOVING DETAIL  
N.T.S.**

**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. ITEM 627.94 PAVEMENT MARKING TAPE FOR DWLL AND ITEM 627.94 PAVEMENT MARKING TAPE SHALL BE INSTALLED IN AN "IN AND OUT" GROOVING PATTERN. SEE DETAILS THIS SHEET.
5. ALL EXISTING PAINT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF ITEM 627.94 PAVEMENT MARKING TAPE (DWLL) AND SHALL BE INCIDENTAL TO THE INSTALLATION OF THE TAPE.
6. TEMPORARY PAVEMENT MARKINGS ON MILLED PAVEMENT SHALL BE 6" SOLID WHITE, BROKEN WHITE AND SOLID YELLOW PAINT LINES.
7. TEMPORARY PAVEMENT MARKINGS ON NEW HMA 12.5 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 RADII ON SURFACE PAVEMENT, A 3' PIECE EVERY 40'.

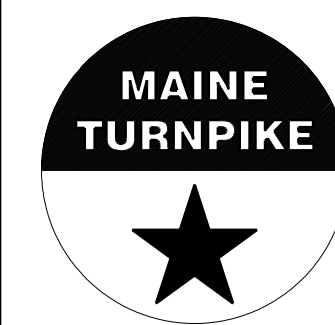


No.	Revision	By	Date

Designed by:



STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)**

**STRIPING DETAILS**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

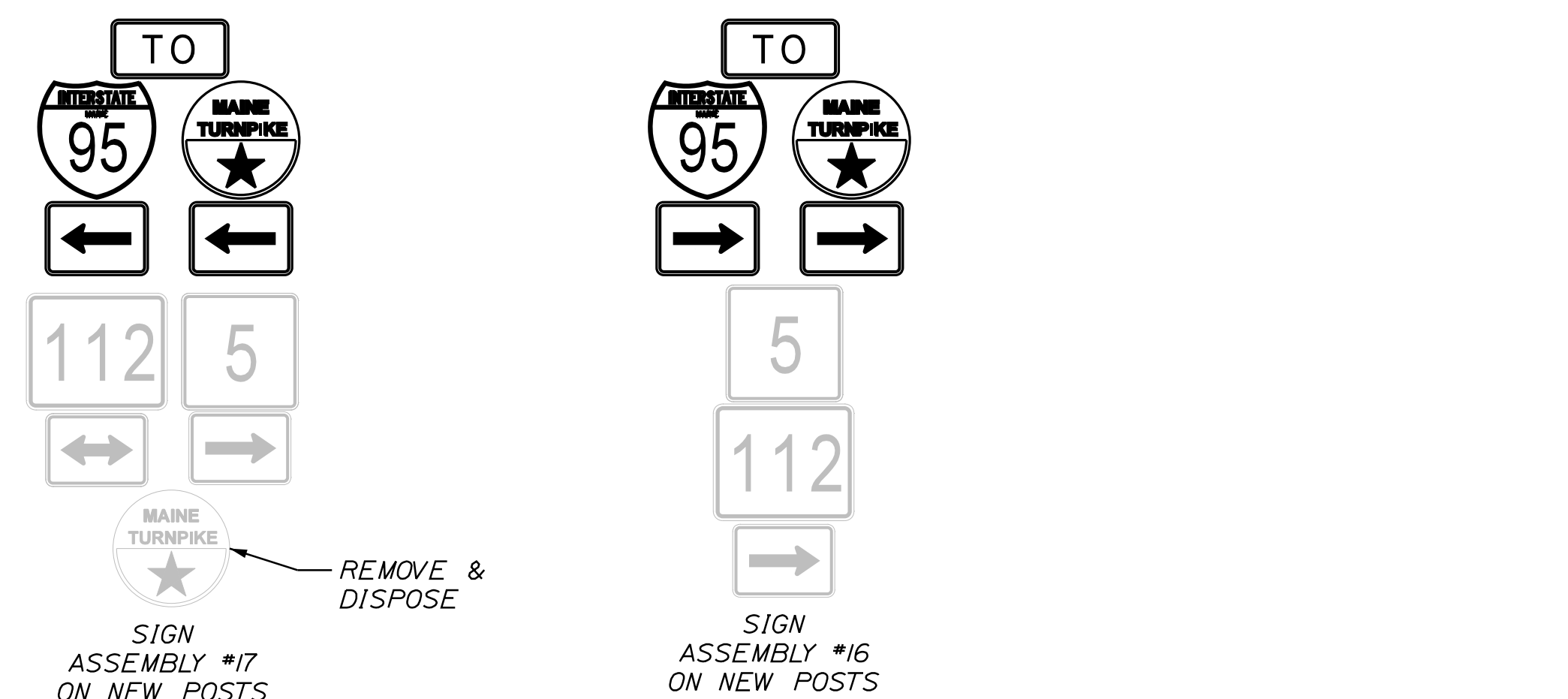
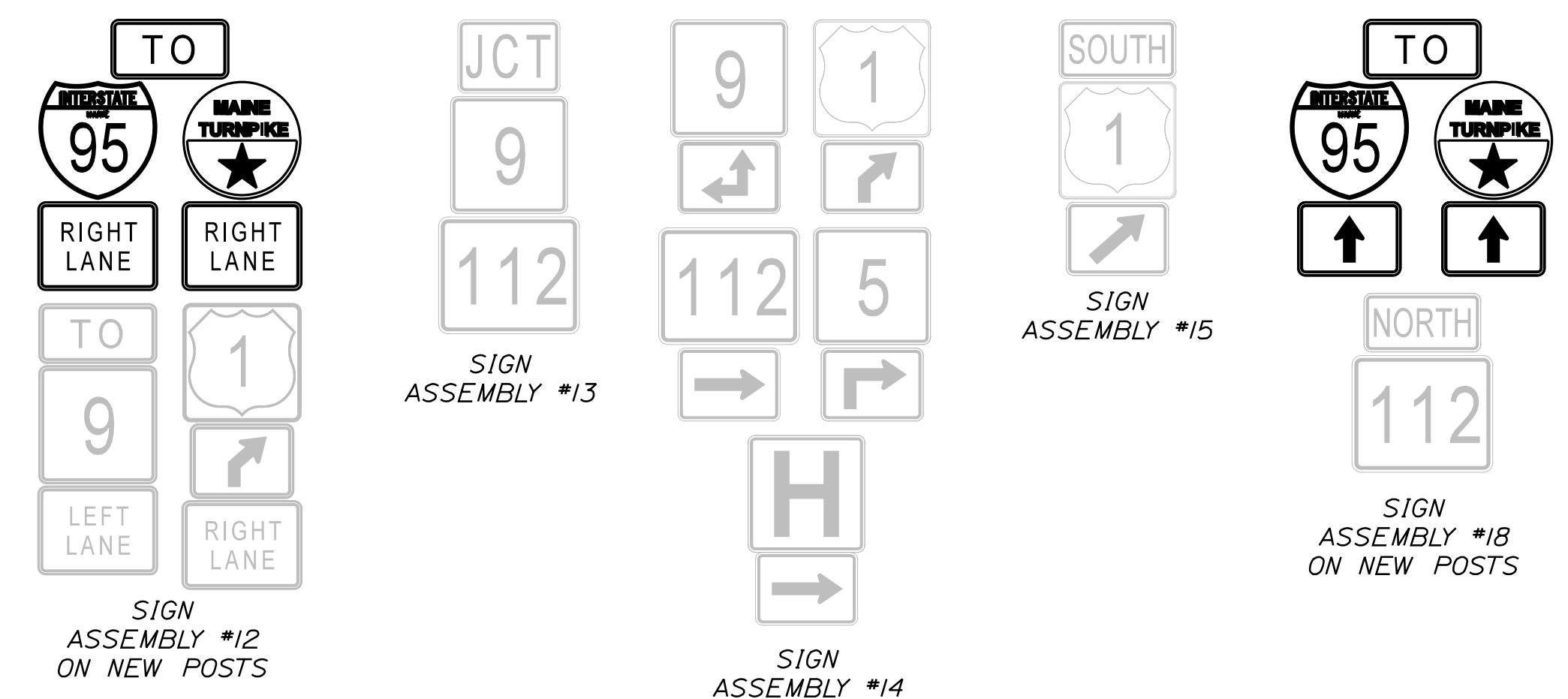
SHEET NUMBER:

222 OF 735

Filename: ...MSTA\_Details\_Striping.dgn

Date: 10/17/2022

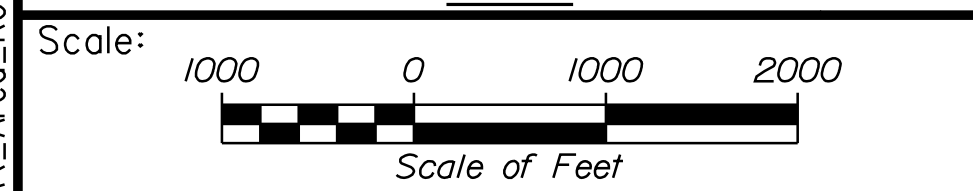
Filename: ...MSTA\_Area\_Route\_Signs.dgn



BIDDEFORD

SACO

PLAN



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 AREA ROUTE SIGNS

SHEET NUMBER: SS-31  
 223 OF 735

CONTRACT: 2022.07

REMOVE AND DISPOSE SIGN SUMMARY - POST MOUNTED - MAINLINE

REMOVE AND DISPOSE SIGN SUMMARY - POST MOUNTED - MAINLINE

DESCRIPTION	QUANTITY	SIGN SIZE (CONTRACTOR TO VERIFY)			COLOR		DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND)	LOCATION
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND		
	1	120	144	120.00 (120.00)	BLUE	WHITE	NB	STA. 1687+47, RT.
	1	60	84	35.00 (35.00)	YELLOW/ BLUE	BLACK/ WHITE	NB	STA. 1692+00, RT.
	1	48	36	12.00 (12.00)	YELLOW	BLACK	NB	STA. 1698+86, RT.
	1	72	78	39.00 (39.00)	BLUE	WHITE	NB	STA. 1699+25, RT.
	1	48 12	48 36	16.00 (16.00) 3.00 (3.00)	YELLOW YELLOW	BLACK BLACK	NB	STA. 1711+50, RT.
	1	222	228	351.50 (351.50)	GREEN	WHITE	NB	STA. 1728+61, RT.
	1	222	228	351.50 (351.50)	GREEN	WHITE	SB	STA. 1765+60, LT.
	1	222	228	351.50 (351.50)	GREEN	WHITE	SB	STA. 1797+32, LT.
	1	222	228	351.50 (351.50)	GREEN	WHITE	SB	STA. 1822+00, LT.

DESCRIPTION	QUANTITY	SIGN SIZE (CONTRACTOR TO VERIFY)			COLOR		DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND)	LOCATION
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND		
	1	222	228	351.50 (351.50)	GREEN	WHITE	SB	STA. 1866+49, LT.
	1	60 48	48 48	20.00 (20.00) 16.00 (16.00)	WHITE WHITE/RED	BLACK WHITE	EXIT 35 NB OFF RAMP	STA. 417+11, LT.
	1	48	48	16.00 (16.00)	YELLOW	BLACK	EXIT 35 NB OFF RAMP	STA. 417+19, RT.
	1	36	24	6.00 (6.00)	BLUE	WHITE	EXIT 35 NB OFF RAMP	STA. 627+85, LT.
	1	48	36	12.00 (12.00)	GREEN	WHITE	EXIT 35 NB OFF RAMP	STA. 628+50, LT.
	1	36	24	6.00 (6.00)	BLUE	WHITE	EXIT 35 NB OFF RAMP	STA. 630+56, LT.
	1	18 36 36 15	36 45 36 21	(4.5) (11.25) (9.00) (2.19)	BLUE RED/BLUE GREEN/GOLD BLUE	WHITE WHITE WHITE WHITE	EXIT 35 NB ON RAMP	STA. 617+48, LT.
	2	18	12	1.50 (3.00)	WHITE	RED	NB PLAZA ENTRANCE ROAD	STA. 56+71, RT. STA. 56+68, LT.
	1	48 12	48 36	16.00 (16.00) 3.00 (3.00)	YELLOW YELLOW	BLACK BLACK	SB	STA. 1749+23, LT.

Date: 10/17/2022

Filename: ...MSTA\_Sign\_Summary\_01.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	KLW	10\22	Checked	TWM	10\22
Drawn	KLW	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**









MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
MAINLINE SIGN SUMMARY  
REMOVE AND DISPOSE - 1


SHEET NUMBER: SS-41  
CONTRACT: 2022.07  
224 OF 735



REMOVE AND DISPOSE SIGN SUMMARY - POST MOUNTED - ROUTE 112

DESCRIPTION	QUANTITY	SIGN SIZE (CONTRACTOR TO VERIFY)			COLOR		DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND)	LOCATION
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND		
	1	30	24	5.00 (5.00)	WHITE	BLACK	SB	STA. 144+00, RT.
	1	36	36	9.00 (9.00)	YELLOW	BLACK	SB	STA. 146+02, RT.
	3	18	12	1.50 (4.50)	WHITE	RED	SB SB NB	STA. 160+21, RT. STA. 162+75, RT. STA. 164+90, LT.
	1	30	30	6.25 (6.25)	RED	WHITE	NB	STA. 165+02, LT.
	1	48	6	12.00 (12.00)	GREEN	WHITE	SB	STA. 166+00, RT.
	1	36	36	9.00 (9.00)	YELLOW	BLACK	NB	STA. 169+40, LT.
	1	36	36	9.00 (9.00)	GREEN/ GOLD/ WHITE	WHITE	NB	SIGN ASSEMBLY #17 ROUTE 5
	1	48	36	12.00 (12.00)	GREEN	WHITE	SB	STA. 163+30, RT.

REMOVE AND STACK SIGN SUMMARY - ROUTE 112

DESCRIPTION	QUANTITY	SIGN SIZE (CONTRACTOR TO VERIFY)			COLOR		DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND)	LOCATION
		HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND		
	1	18	24	3.00 (3.00)	BLUE	WHITE	SB	STA. 166+00, RT.


Date: 10/17/2022

Filename: ...MSTA\_Sign\_Summary\_02.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	KLW	10\22	Checked	TWM	10\22
Drawn	KLW	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
ROUTE 112 SIGN SUMMARY  
REMOVE AND DISPOSE - 2

SHEET NUMBER: SS-42  
CONTRACT: 2022.07  
225 OF 735

REMOVE AND RESET SIGN SUMMARY - MAINLINE

DESCRIPTION	EXISTING			NUMBER AND TYPE OF POSTS	COLOR		DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND)	LOCATION	PROPOSED					
	SIGN SIZE (CONTRACTOR TO VERIFY)				BACKGROUND	LEGEND			NUMBER OF POSTS, TYPE AND SIZE (CONTRACTOR TO VERIFY)	FOUNDATION SIZE AND TYPE (CONTRACTOR TO VERIFY)	BREAKAWAY DEVICE	DIRECTION (SB-SOUTHBOUND) (NB-NORTHBOUND)	LOCATION	PAY ITEM NUMBER
	HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)											
	174	144	174.00 (174.00)	2 W-BEAM CONC. BASE	BLUE	WHITE	NB	STA. 1645+60, RT.	2 W12X26	36" DIA.	YES	NB	STA. 1712+50, RT.	645.501
	174	144	174.00 (174.00)	2 W-BEAM CONC. BASE	BLUE	WHITE	NB	STA. 1664+40, RT.	2 W12X26	36" DIA.	YES	NB	STA. 1723+00, RT.	645.502
	222	228	351.50 (351.50)	3 W-BEAM CONC. BASE	GREEN	WHITE	NB	STA. 1673+50, RT.	OVERHEAD	-	-	NB	OVERHEAD STA. 1670+75, RT.	645.503
	84	180	105.00 (105.00)	2 W-BEAM CONC. BASE	BLUE	WHITE	SB	STA. 1733+20, LT.	2 W8X18	24" DIA.	YES	SB	STA. 1680+00, LT.	645.504
	78	60	32.50 (65.00)	1 W-BEAM CONC. BASE	GREEN	WHITE	NB	STA. 1733+88, RT.	1 W8X24	24" DIA.	YES	NB	STA. 1734+29, RT.	645.505
	30	42	8.75 (17.50)	1 6X6 WOOD POST	RED	WHITE	NB	STA. 734+50, RT.	MOUNT TO LIGHT STANDARD		YES	EXIT 35 NB OFF RAMP	STA. 734+03 RT.	645.109
							NB	STA. 415+75, RT.	1 W6X15	24" DIA.	YES	EXIT 36 NB OFF RAMP	STA. 417+00, RT.	645.109
							SB	STA. 2759+40, LT.		24" DIA.	YES	EXIT 36 SB OFF RAMP	STA. 955+00, LT.	645.109
	84	144	84.00 (84.00)	2 W-BEAM CONC. BASE	ORANGE/BLUE	BLACK/WHITE	SB	STA. 2754+00, LT.	2 W8X18	24" DIA.	YES	SB	STA. 1821+97, LT.	645.507
	24	12	2.00 (2.00)	1 U-CHANNEL POST	GREEN	WHITE	SB	STA. 1757+25, LT.	1 U-CHANNEL POST	-	-	SB	STA. 1757+25, LT.	645.109
	48	48	6.93 (13.92)	1 6X6 WOOD POST	RED/WHITE	RED	NB	STA. 1720+10, RT.	MOUNT TO LIGHT STANDARD		-	NB	STA. 1711+50, RT.	645.508
							SB	STA. 1748+15, LT.	1 W6X9	24" DIA.	-	CD ROADWAY	STA. 1748+25, LT.	645.509
	60	48	20.00 (20.00)	1 W-BEAM CONC. BASE	WHITE	BLACK	SB	STA. 1723+60, LT.	1 W6X15	24" DIA.	YES	SB	STA. 1676+00, LT.	645.510
	18 36 36	36 45 36	4.50 11.25 9.00	1 6X6 WOOD POST	BLUE RED/BLUE GREEN	WHITE WHITE WHITE	SB	STA. 1732+70, LT.	1 6X6 WOOD POST	-	-	SB	STA. 1686+75, LT.	645.109 645.109 645.109
	114 228 228 30	30 198 24 30	23.75 313.50 38.00 6.25 (18.75)	3 W-BEAM CONC. BASE	GREEN GREEN BLUE	WHITE WHITE WHITE	NB	STA. 1673+50, RT.	3 W14X30	36" DIA.	YES	NB	STA. 1706+85, RT.	645.511

Date: 10/17/2022

Filename: ...MSTA\_Sign\_Summary\_03.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

By	Date	By	Date
Designed	KLW 10\22	Checked	TWM 10\22
Drawn	KLW 10\22	In Charge of	LEM 10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
MAINLINE SIGN SUMMARY  
REMOVE AND RESET - 1

SHEET NUMBER: SS-43  
CONTRACT: 2022.07  
226 OF 735


REMOVE AND RESET SIGN SUMMARY - ROUTE 112

DESCRIPTION	EXISTING			NUMBER AND TYPE OF POSTS	COLOR		LOCATION	PROPOSED				
	SIGN SIZE (CONTRACTOR TO VERIFY)				BACKGROUND	LEGEND		NUMBER OF POSTS, TYPE AND SIZE (CONTRACTOR TO VERIFY)	FOUNDATION SIZE AND TYPE (CONTRACTOR TO VERIFY)	BREAKAWAY DEVICE	LOCATION	PAY ITEM NUMBER
	HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)									
	36	36	9.00 (9.00)	/ U-CHANNEL POST	YELLOW	BLACK	STA. 141+00, LT.					
	36	30	7.50 (7.50)		YELLOW	BLACK		645.109				
	30	30	6.25 (12.50)	/ U-CHANNEL POST	RED	WHITE	STA. 141+52, RT. STA. 158+00, RT.	/ U-CHANNEL POST	-	-	STA. 141+56, RT. STA. 158+50, RT.	645.109 645.109
	30	24	5.00 (5.00)	/ U-CHANNEL POST	WHITE	BLACK	STA. 146+00, LT.	/ U-CHANNEL POST	-	-	STA. 143+25, LT.	645.109
	8	54	3.00 (3.00)	/ U-CHANNEL POST	BLUE	WHITE	STA. 141+09, RT.	/ U-CHANNEL POST	-	-	STA. 141+56, RT.	645.109
	18	12	1.50 (4.50)	/ U-CHANNEL POST	WHITE	RED	STA. 157+00, RT. STA. 161+00, LT. STA. 164+50, LT.	/ U-CHANNEL POST	-	-	STA. 156+50, RT. STA. 161+00, LT. STA. 164+10, LT.	645.109 645.109 645.109
BUSINESS SIGN	-	-	- (-)	COMMERCIAL/BUSINESS SIGN 2 METAL POSTS	XL SPORT WORLD SACO PLAZA		STA. 158+00, RT. STA. 164+55, RT.	COMMERCIAL/BUSINESS SIGN 2 METAL POSTS	-	-	STA. 157+95, RT. STA. 158+60, RT.	845.301 845.302
	-	-	- (-)	COMMERCIAL/BUSINESS SIGN	SACO INDUSTRIAL PARK		STA. 165+00, LT.	COMMERCIAL/BUSINESS SIGN	-	-	STA. 164+60, LT.	845.303
	12	36	3.00 (3.00)	/ U-CHANNEL POST	BLUE	WHITE	STA. 165+07, LT.	/ U-CHANNEL POST	-	-	STA. 164+75, LT.	645.109

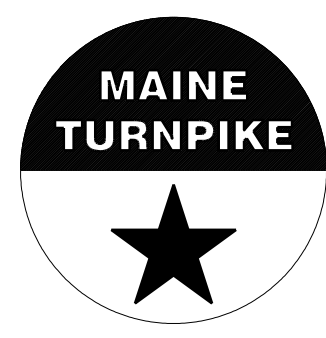
Date:10/17/2022

Filename: ...MSTA\_Sign\_Summary\_04.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	KLW	10\22	Checked	TWM	10\22
Drawn	KLW	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
ROUTE 112 SIGN SUMMARY  
REMOVE AND RESET - 2

SHEET NUMBER: SS-44  
CONTRACT:2022.07  
227 OF 735

PROPOSED SIGN SUMMARY - MAIN LINE

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)					
DI-2		1	30	66	13.75 (13.75)	GREEN	WHITE	1	W8X24	-	10.9	-	24" DIA.	YES	EXIT 35 SB OFF RAMP	STA. 324+50, LT.	645.251
DI-3		1	42	66	19.25 (19.25)	GREEN	WHITE	1	W8X24	-	11.4	-	24" DIA.	YES	EXIT 35 NB PLAZA	STA. 627+00, RT.	645.251
D9-7		1	30	30	6.25 (6.25)	BLUE	WHITE	← MOUNT WITH GS-3 →					NB	STA. 1645+00, RT.	645.271		
D9-9		1	30	30	6.25 (6.25)	BLUE	WHITE	← MOUNT WITH GS-3 →					NB	STA. 1645+00, RT.	645.271		
EI-5P		8	30	114	23.75 (190.00)	GREEN	WHITE	← MOUNT WITH GS-25 MOUNT WITH GS-3 MOUNT WITH GS-5 MOUNT WITH GS-6 MOUNT WITH GS-19 MOUNT WITH GS-17 MOUNT WITH GS-16 MOUNT WITH GS-20 →					NB NB NB NB SB SB SB SB	STA. 1591+00, RT. STA. 1645+00, RT. STA. 1670+75, RT. STA. 1692+75, RT. STA. 2728+75, LT. STA. 2740+50, LT. STA. 1754+00, LT. STA. 2763+00, LT.	645.251 645.251 645.251 645.251 645.251 645.251 645.251 645.251		
EI-5P		3	30	114	23.75 (71.25)	GREEN	WHITE	← MOUNT WITH GS-7 MOUNT WITH GS-8 MOUNT WITH GS-15 →					NB NB SB	STA. 1718+50, RT. STA. 1731+30, RT. STA. 2763+00, LT.	645.251 645.251 645.251		
EI-5P		4	30	168	35.00 (140.00)	GREEN	WHITE	← MOUNT WITH GS-13 MOUNT WITH GS-12 MOUNT WITH GS-11 MOUNT WITH GS-9 →					SB SB SB SB	STA. 1789+00, LT. STA. 1799+50, LT. STA. 1827+00, LT. STA. 1880+00, LT.	645.251 645.251 645.251 645.251		
E5-1A		2	60	78	32.50 (65.00)	GREEN	WHITE	1	W8X24	-	13.1 12.4	-	24" DIA.	YES	NB SB	STA. 1700+08, RT. STA. 1726+44, LT.	645.251 645.251
GS-2		2	144	222	222.00 (444.00)	BLUE	WHITE	2	W14X30	21.2 22.0	-	24.5 25.0	36" DIA.	YES	NB SB	STA. 1631+00, RT. STA. 1810+33, LT.	645.251 645.251
GS-3		1	144	168	168.00 (168.00)	GREEN	WHITE	2	W12X26	22.0	-	24.0	36" DIA.	YES	NB	STA. 1645+00, RT.	645.251
GS-5		1	144	168	168.00 (168.00)	GREEN	WHITE	← MOUNT TO OVERHEAD STRUCTURE →					NB	STA. 1670+75, RT.	645.121		
GS-6		1	156	168	182.00 (182.00)	GREEN	WHITE	2	W12X26	20.8	-	18.0	36" DIA.	YES	NB	STA. 1692+75, RT.	645.251

Date: 10/17/2022

Filename: ...MSTA\_Sign\_Summary\_05.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	KLW	10\22	Checked	TWM	10\22
Drawn	KLW	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
MAINLINE SIGN SUMMARY  
PROPOSED - 1

SHEET NUMBER: SS-45  
CONTRACT: 2022.07  
228 OF 735

PROPOSED SIGN SUMMARY - MAIN LINE

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)					
GS-7		1	234	228	370.50 (370.50)	GREEN/FLUORESCENT YELLOW	WHITE/BLACK			← MOUNT TO OVERHEAD STRUCTURE →				NB	STA. 1718+50, RT.	645.151	
GS-8		1	210	228	332.50 (332.50)	GREEN/FLUORESCENT YELLOW	WHITE/BLACK			← MOUNT TO OVERHEAD STRUCTURE →				NB	STA. 1731+30, RT.	645.152	
GS-9		1	162	318	357.75 (357.75)	GREEN	WHITE	3	W14X30	24.5	25.5	26.5	36" DIA.	YES	SB	STA. 1880+00, LT.	645.251
GS-11		1	162	318	357.75 (357.75)	GREEN	WHITE	3	W14X30	24.5	24.5	24.5	36" DIA.	YES	SB	STA. 1827+00, LT.	645.251
GS-12		1	162	318	357.75 (357.75)	GREEN	WHITE	3	W14X30	23.7	23.7	23.7	36" DIA.	YES	SB	STA. 1799+50, LT.	645.251
GS-13		1	168	318	371.00 (371.00)	GREEN	WHITE			← MOUNT TO OVERHEAD STRUCTURE →				SB	STA. 1789+00, LT.	645.156	
GS-15		1	180	186	232.50 (232.50)	GREEN/FLUORESCENT YELLOW	WHITE/BLACK			← MOUNT TO OVERHEAD STRUCTURE →				SB	STA. 2763+00, LT.	645.155	
GS-16		1	144	168	168.00 (168.00)	GREEN	WHITE	2	W12X26	23.0	-	19.2	36" DIA.	YES	NB	STA. 1754+00, LT.	645.251
GS-17		1	180	174	217.50 (217.50)	GREEN/FLUORESCENT YELLOW	WHITE/BLACK			← MOUNT TO OVERHEAD STRUCTURE →				SB	STA. 2740+50, LT.	645.154	
GS-18		2	120	90	75.00 (150.00)	GREEN	WHITE			← MOUNT TO OVERHEAD STRUCTURE MOUNT TO OVERHEAD STRUCTURE →				SB SB	STA. 2728+75, LT. STA. 2740+50, LT.	645.153 645.154	
GS-19		1	150	174	181.25 (181.25)	GREEN/FLUORESCENT YELLOW	WHITE/BLACK			← MOUNT TO OVERHEAD STRUCTURE →				SB	STA. 2728+75, LT.	645.153	
GS-20		1	144	168	168.00 (168.00)	GREEN	WHITE			← MOUNT TO OVERHEAD STRUCTURE →				SB	STA. 2763+00, LT.	645.155	
GS-21		1	60	186	77.50 (77.50)	GREEN	WHITE	2	W8X18	20.4	-	20.4	24" DIA.	YES	SB	STA. 1816+00, LT.	645.251

Date:10/17/2022

Filename: ...MSTA\_Sign\_Summary\_06.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

Designed	By	Date	Checked	By	Date
	KLW	10\22		TWM	10\22
Drawn	By	Date	In Charge of	By	Date
	KLW	10\22		LEM	10\22

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
MAINLINE SIGN SUMMARY  
PROPOSED - 2

SHEET NUMBER: SS-46  
229 OF 735

CONTRACT:2022.07

PROPOSED SIGN SUMMARY - MAIN LINE

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)					
GS-25		1	144	168	168.00 (168.00)	GREEN	WHITE	2	W12X26	22.0	-	22.0	36" DIA.	YES	NB	STA. 1591+00, RT.	645.251
GS-31		1	18	18	2.25 (2.25)	BLUE	WHITE	← MOUNT TO MAINLINE SIGN NO. 4 →							SB	STA. 1680+00, LT.	645.2511
MI-4 (1)		4	24	24	4.00 (16.00)	WHITE	BLACK	← SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) →							EXIT 35 NB PLAZA	STA. 625+38, RT. (SIGN ASSEMBLY #1)	645.271
								← SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) →							EXIT 35 NB PLAZA	STA. 630+50, RT. (SIGN ASSEMBLY #2)	645.271
								1	W8x24	-	15.8	-	24" DIA.	YES	EXIT 35 SB OFF RAMP	STA. 321+05, LT. (SIGN ASSEMBLY #3)	645.271
								← SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) →							EXIT 35 SB OFF RAMP	STA. 326+50, RT. (SIGN ASSEMBLY #4)	645.271
MI-5 (112)		8	24	30	5.00 (40.00)	WHITE	BLACK	SIGN ASSEMBLY #2 SIGN ASSEMBLY #2 SIGN ASSEMBLY #3 SIGN ASSEMBLY #3 SIGN ASSEMBLY #4 SIGN ASSEMBLY #4  ← SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) →							EXIT 35 NB PLAZA EXIT 35 NB PLAZA EXIT 35 SB OFF RAMP EXIT 35 SB OFF RAMP EXIT 35 SB OFF RAMP EXIT 35 SB OFF RAMP  EXIT 35 NB PLAZA EXIT 35 NB PLAZA	STA. 630+50, RT. STA. 630+50, RT. STA. 321+05, LT. STA. 321+05, LT. STA. 326+50, LT. STA. 326+50, LT.  STA. 625+38, RT. STA. 625+38, RT.	645.271 645.271 645.271 645.271 645.271 645.271  645.271 645.271
M3-1		4	18	36	4.50 (18.00)	WHITE	BLACK	SIGN ASSEMBLY #2 SIGN ASSEMBLY #3 SIGN ASSEMBLY #4  ← SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) →							EXIT 35 NB PLAZA EXIT 35 SB OFF RAMP EXIT 35 SB OFF RAMP  EXIT 35 NB PLAZA	STA. 630+50, RT. STA. 321+05, LT. STA. 326+50, LT.  STA. 625+38, RT.	645.271 645.271 645.271  645.271
M3-3		4	18	36	4.50 (18.00)	WHITE	BLACK	SIGN ASSEMBLY #2 SIGN ASSEMBLY #3 SIGN ASSEMBLY #4  ← SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) →							EXIT 35 NB PLAZA EXIT 35 SB OFF RAMP EXIT 35 SB OFF RAMP  EXIT 35 NB PLAZA	STA. 630+50, RT. STA. 321+05, LT. STA. 326+50, LT.  STA. 625+38, RT.	645.271 645.271 645.271  645.271
M4-5		4	12	24	2.00 (8.00)	WHITE	BLACK	SIGN ASSEMBLY #2 SIGN ASSEMBLY #3 SIGN ASSEMBLY #4  ← SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) →							EXIT 35 NB PLAZA EXIT 35 SB OFF RAMP EXIT 35 SB OFF RAMP  EXIT 35 NB PLAZA	STA. 630+50, RT. STA. 321+05, LT. STA. 326+50, LT.  STA. 625+38, RT.	645.271 645.271 645.271  645.271
M5-1 (L)		3	15	21	2.19 (6.57)	WHITE	BLACK	SIGN ASSEMBLY #4 SIGN ASSEMBLY #4  ← SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) →							EXIT 35 SB OFF RAMP EXIT 35 SB OFF RAMP  EXIT 35 NB PLAZA	STA. 326+50, LT. STA. 326+50, LT.  STA. 625+38, RT.	645.271 645.271  645.271
M5-1 (R)		3	15	21	2.19 (6.57)	WHITE	BLACK	SIGN ASSEMBLY #4 SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN) SIGN ASSEMBLY #1 (MOUNT TO GANTRY COLUMN)							EXIT 35 SB OFF RAMP EXIT 35 NB PLAZA EXIT 35 NB PLAZA	STA. 326+50, LT. STA. 625+38, RT. STA. 625+38, RT.	645.271 645.271 645.271
M6-1 (L)		3	15	21	2.19 (6.57)	WHITE	BLACK	SIGN ASSEMBLY #2 SIGN ASSEMBLY #3 SIGN ASSEMBLY #3							EXIT 35 NB PLAZA EXIT 35 SB OFF RAMP EXIT 35 SB OFF RAMP	STA. 630+50, RT. STA. 321+05, LT. STA. 321+05, LT.	645.271 645.271 645.271
M6-1 (R)		3	15	21	2.19 (6.57)	WHITE	BLACK	SIGN ASSEMBLY #2 SIGN ASSEMBLY #2 SIGN ASSEMBLY #3							EXIT 35 NB PLAZA EXIT 35 NB PLAZA EXIT 35 SB OFF RAMP	STA. 630+50, RT. STA. 630+50, RT. STA. 321+05, LT.	645.271 645.271 645.271

Date: 10/17/2022

Filename: ...MSTA\_Sign\_Summary\_07.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

By	Date	By	Date
Designed	KLW 10\22	Checked	TWM 10\22
Drawn	KLW 10\22	In Charge of	LEM 10\22

STANTEC CONSULTING SERVICES INC.  
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
MAINLINE SIGN SUMMARY  
PROPOSED - 3

SHEET NUMBER: SS-47  
CONTRACT: 2022.07  
230 OF 735

PROPOSED SIGN SUMMARY - MAIN LINE

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)					
R1-2		2	60	60	10.82 (21.64)	WHITE/RED	RED	1	W6X9	-	16.2 16.0	-	18" DIA.	YES	SB SB	STA. 1699+83, LT. STA. 1717+99, LT.	645.271 645.271
R2-1(10)		6	36	30	7.50 (45.00)	WHITE	BLACK	1	W6X9	MOUNT TO LIGHT STANDARD			18" DIA.	YES	EXIT 35 NB PLAZA EXIT 35 SB ON RAMP EXIT 35 SB ON RAMP EXIT 35 NB PLAZA EXIT 35 NB PLAZA	STA. 627+00, LT. STA. 216+53, LT. STA. 215+64, RT. STA. 215+64, RT. STA. 625+50, RT. STA. 625+50, RT.	645.271 645.271 645.271 645.271 645.271
										MOUNT TO COLUMNS							
R3-4		1	36	36	9.00 (9.00)	WHITE	RED/BLACK	MOUNT WITH R4-7					EXIT 35 NB PLAZA	STA. 631+07, RT.	645.271		
R3-8 (LT-R)		2	30	30	6.25 (12.50)	WHITE	BLACK	1	6x6 WOOD POST	-	15.4	-	-	-	EXIT 35 SB OFF RAMP EXIT 35 NB PLAZA	STA. 323+50, LT. STA. 627+85, RT.	645.271 645.271
								MOUNT TO LIGHT STANDARD									
R4-7		1	24	30	5.00 (5.00)	WHITE	BLACK	1	6x6 WOOD POST	-	14.0	-	-	-	EXIT 35 NB PLAZA	STA. 631+03, RT.	645.271
R5-1		6	48	48	16.00 (96.00)	WHITE/RED	WHITE	1	W6X15	-	13.8 14.3	-	24" DIA.	YES	EXIT 35 NB PLAZA EXIT 36 SB ON RAMP EXIT 35 SB ON RAMP EXIT 35 NB PLAZA EXIT 35 NB PLAZA EXIT 35 SB OFF RAMP	STA. 630+50, RT. STA. 849+30, RT. STA. 630+51, RT. STA. 625+38, RT. STA. 625+38, RT. STA. 2728+71, LT.	645.271 645.271 645.271 645.271 645.271 645.271
								MOUNT WITH SIGN ASSEMBLY #2									
								MOUNT TO GANTRY OVERHEAD MOUNT TO GANTRY OVERHEAD MOUNT TO MAST ARM									
R5-1A		7	30	42	8.75 (61.25)	RED	WHITE	1	6x6 WOOD POST	-	14.5 15.0	-	-	-	EXIT 35 NB OFF RAMP EXIT 36 SB OFF RAMP EXIT 35 NB OFF RAMP EXIT 35 NB OFF RAMP EXIT 35 NB OFF RAMP EXIT 36 SB ON RAMP EXIT 35 SB OFF RAMP	STA. 417+00, LT. STA. 955+00, RT. STA. 408+52, RT. STA. 630+50, RT. STA. 630+51, RT. STA. 849+30, RT. STA. 2728+71, LT.	645.271 645.271 645.271 645.271 645.271 645.271 645.271
								MOUNT TO LIGHT STANDARD MOUNT WITH R5-1 MOUNT WITH SIGN ASSEMBLY #2 MOUNT WITH R5-1 MOUNT WITH R5-1									
R7-8		2	18	12	1.50 (3.00)	BLUE/WHITE	WHITE/GREEN	1	U-CHANNEL POST	-	11.8 12.5	-	-	-	EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 216+24, LT. STA. 626+06, LT.	645.271 645.271
R7-8P		2	9	18	1.13 (2.26)	WHITE	GREEN	MOUNT WITH R7-8					EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 216+24, LT. STA. 626+06, LT.	645.271 645.271		
R8-3A		3	30	24	5.00 (15.00)	WHITE	RED	1	6x6 WOOD POST	-	14.0	-	-	-	EXIT 35 SB ON RAMP EXIT 35 NB PLAZA EXIT 35 NB PLAZA	STA. 216+00, LT. STA. 626+66, LT. STA. 627+72, LT.	645.271 645.271 645.271
								MOUNT TO LIGHT STANDARD MOUNT TO LIGHT STANDARD									
SP-1		2	36	24	6.00 (12.00)	WHITE	BLACK	1	6x6 WOOD POST	-	15.1	-	-	-	EXIT 35 NB PLAZA EXIT 35 SB ON RAMP	STA. 624+00, LT. STA. 214+02, LT.	645.271 645.271
								MOUNT TO LIGHT STANDARD									
SP-2		2	48	126	42.0 (84.0)	PURPLE	WHITE	MOUNT TO CANOPY					EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 215+70, RT. STA. 625+56, RT.	645.14 645.14		
SP-3		2	48	160	53.33 (106.66)	ELECTRONIC		MOUNT TO CANOPY					EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 215+70, RT. STA. 625+56, RT.	645.1092 645.1092		

Date:10/17/2022

Filename: ...MSTA\_Sign\_Summary\_08.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
By	Date	By	Date
Designed	KLW 10\22	Checked	TWM 10\22
Drawn	KLW 10\22	In Charge of	LEM 10\22

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY


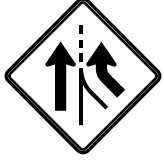

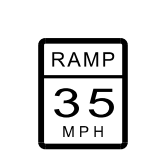
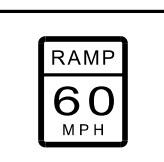
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
MAINLINE SIGN SUMMARY  
PROPOSED - 4

SHEET NUMBER: SS-48  
231 OF 735

CONTRACT:2022.07

PROPOSED SIGN SUMMARY - MAIN LINE

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-4	ANY VEHICLE CASH / RECEIPTS	2	48	144	48.00 (96.00)	WHITE	BLACK	← MOUNT TO CANOPY →					EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 215+70, RT. STA. 625+56, RT.	645.14 645.14		
SP-5	TOLL PLAZA	2	15	30	3.13 (6.25)	YELLOW	BLACK	← MOUNT WITH R2-1(10) →					EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 216+53, LT. STA. 627+00, LT.	645.251 645.251		
SP-6	PASSENGER CARS \$1.00	2	36	54	13.50 (27.00)	FLUORESCENT YELLOW	BLACK	1	W8X24	-	15.7 15.4	-	24" DIA.	YES	EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 217+89, LT. STA. 627+50, LT.	645.121 645.121
SP-7	VEHICLE CLASS FARE 2 AXEL 4 WHEEL \$1.20 2 AXEL WITH TRAILER \$1.50 2 AXEL 6 WHEEL \$2.00 3 AXEL COMB \$3.00 4 AXEL COMB \$3.50 5 AXEL COMB \$4.00 6 AXEL OR MORE \$4.50	2	48	54	18.00 (36.00)	WHITE	BLACK	← MOUNT WITH SP-6 →					EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 217+89, LT. STA. 627+50, LT.	645.122 645.122		
SP-8	UNDERCLEARANCE TURNPIKE STRUCTURES 13' 6"	2	60	72	30.00 (60.00)	YELLOW	BLACK	1	W8x24	-	13.3 13.3	-	24" DIA.	YES	EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 218+50, LT. STA. 628+50, LT.	645.251 645.251
SP-9	PROHIBITED ON INTERSTATE 95 RESTRICTIONS TRAILERS MOTORCYCLES AMBI-VEHICLE OVERSIZED FARM EQUIPMENT OVERSIZED	2	48	36	12.00 (24.00)	WHITE	BLACK	1	W6X9	-	12.1 10.8	-	18" DIA.	YES	EXIT 35 NB PLAZA EXIT 35 SB ON RAMP	STA. 629+50, LT. STA. 219+00, LT.	645.271 645.271
SP-10	MERGE	2	12	36	3.00 (6.00)	FLUORESCENT YELLOW	BLACK	← MOUNT WITH W4-1 →					SB SB	STA. 1704+80, LT. STA. 1725+90, LT.	645.271 645.271		
SP-11	EMPLOYEE PARKING ONLY	2	24	30	5.0 (10.0)	WHITE	BLACK	1	6X6 WOOD POST	-	13.2 13.2	-	-	-	EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 216+46, LT. STA. 626+28, LT.	645.271 645.271
W4-1		2	48	48	16.00 (32.00)	FLUORESCENT YELLOW	BLACK	1	W6X15	-	14.5 12.8	-	24" DIA.	YES	SB SB	STA. 1704+80, LT. STA. 2726+00, LT.	645.271 645.271
W4-3R		2	48	48	16.00 (32.00)	FLUORESCENT YELLOW	BLACK	1	W6X9	-	11.0 11.4	-	18" DIA.	YES	NB SB	STA. 1709+24, RT. STA. 2749+64, LT.	645.271 645.271
W11-2		2	36	36	9.00 (18.00)	FLUORESCENT YELLOW-GREEN	BLACK	1	6X6 WOOD POST	-	14.0 13.9	-	-	-	EXIT 35 SB ON RAMP EXIT 35 NB PLAZA	STA. 215+50, LT. STA. 625+39, LT.	645.271 645.271
W13-3(35)		3	48	36	12.00 (36.00)	FLUORESCENT YELLOW	BLACK	1	W6X9	-	11.5 12.3	-	18" DIA.	-	NB NB SB	STA. 1696+90, RT. STA. 1729+13, RT. STA. 1728+67, LT.	645.271 645.271 645.271
W13-3(60)		2	48	36	12.00 (24.00)	FLUORESCENT YELLOW	BLACK	1	W6X9	-	9.8 11.9	-	18" DIA.	-	SB SB	STA. 2746+18, LT. STA. 1774+81, LT.	645.271 645.271


Date:10/17/2022

Filename: ...MSTA\_Sign\_Summary\_09.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	KLW	10\22	Checked	TWM	10\22
Drawn	KLW	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

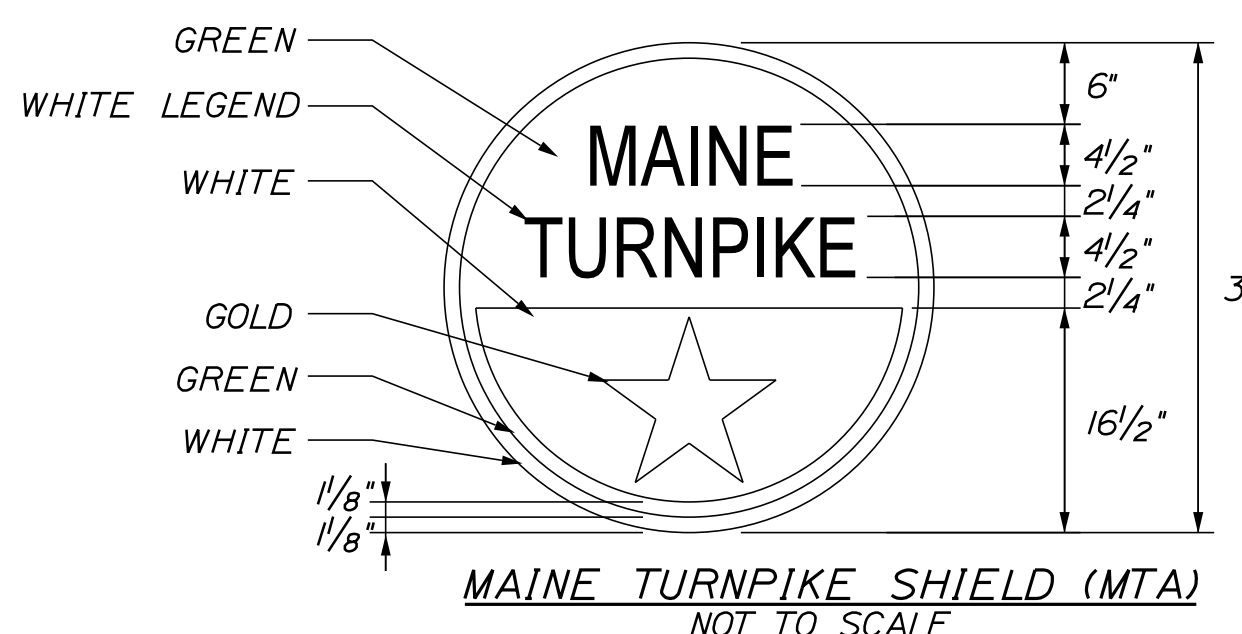
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
MAINLINE SIGN SUMMARY  
PROPOSED - 5

SHEET NUMBER: SS-49  
CONTRACT:2022.07  
232 OF 735



PROPOSED SIGN SUMMARY - ROUTE 112

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	LOCATION	PAY ITEM NUMBER	
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)					
GS-26		2	48	60	20.00 (40.00)	GREEN	WHITE	1	W6X15	-	11.0 10.8	-	24" DIA.	YES	STA. 139+90, RT. STA. 172+50, LT.	645.251 645.251	
GS-27		1	126	150	131.25 (131.25)	GREEN	WHITE	2	W10X22	19.0	-	22.0	30" DIA.	YES	STA. 146+32, RT.	645.251	
GS-28		1	126	150	131.25 (131.25)	GREEN	WHITE	2	W10X22	17.7	-	18.6	30" DIA.	YES	STA. 148+00, LT.	645.251	
GS-29		1	126	132	115.50 (115.50)	GREEN	WHITE	2	W8X18	17.2	-	18.5	24" DIA.	YES	STA. 164+38, RT.	645.251	
GS-30		1	126	132	115.50 (115.50)	GREEN	WHITE	← MOUNT WITH GS-29 →						STA. 164+38, RT.	645.251		
LOGOS		11	36	36	9.00 (99.00)	SEE DETAIL THIS SHEET		2	W8X18	15.0	-	15.0	24" DIA.	YES	STA. 143+10, RT. STA. 143+10, RT. (SIGN ASSEMBLY #5)	645.271 645.271	
							2	W8X18	14.7	-	14.7					STA. 167+12, LT. STA. 167+12, LT. (SIGN ASSEMBLY #9)	645.271 645.271
							2	W8X18	17.2	-	17.2					(SIGN ASSEMBLY #12)	645.271
							1	W8X24	-	16.5	-					STA. 148+95, RT. (SIGN ASSEMBLY #6)	645.271
							1	W8X24	-	16.0	-					STA. 155+85, LT. (SIGN ASSEMBLY #7)	645.271
							1	W8X24	-	15.6	-					STA. 160+17, RT. (SIGN ASSEMBLY #8)	645.271
							1	W8X24	-	17.3	-					(SIGN ASSEMBLY #16)	645.271
							1	W8X24	-	17.3	-					(SIGN ASSEMBLY #17)	645.271
							1	W8X24	-	15.3	-			(SIGN ASSEMBLY #18)	645.271		
MI-1 (95)		11	36	45	11.25 (123.75)	RED/ BLUE	WHITE	SIGN ASSEMBLY #5 SIGN ASSEMBLY #5 SIGN ASSEMBLY #6 SIGN ASSEMBLY #7 SIGN ASSEMBLY #8 SIGN ASSEMBLY #9 SIGN ASSEMBLY #9 SIGN ASSEMBLY #9 SIGN ASSEMBLY #12 SIGN ASSEMBLY #16 SIGN ASSEMBLY #17 SIGN ASSEMBLY #18						STA. 143+10, RT. STA. 143+10, RT. STA. 148+95, RT. STA. 155+85, LT. STA. 160+17, RT. STA. 167+12, LT. STA. 167+12, LT. SIGN ASSEMBLY #12 SIGN ASSEMBLY #16 SIGN ASSEMBLY #17 SIGN ASSEMBLY #18	645.271 645.271 645.271 645.271 645.271 645.271 645.271 645.271 645.271 645.271 645.271 645.271		



NOTE: FOR 24" SHIELD REDUCE ALL MEASUREMENTS BY 1/3.

Date: 10/17/2022

Filename: ...MSTA\_Sign\_Summary\_10.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	KLW	10\22	Checked	TWM	10\22
Drawn	KLW	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
ROUTE 112 SIGN SUMMARY  
PROPOSED - 6

SHEET NUMBER: SS-50  
CONTRACT: 2022.07  
233 OF 735

PROPOSED SIGN SUMMARY - ROUTE 112

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	LOCATION	PAY ITEM NUMBER
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)				
MI-4 (L)		2	24	24	4.00 (8.00)	WHITE	BLACK	1	W6X15	-	10.0	-	24" DIA.	YES	STA. 167+27, RT. (SIGN ASSEMBLY #10)	645.271
															← SIGN ASSEMBLY #6 →	STA. 148+95, RT.
MI-5		3	24	30	5.00 (15.00)	WHITE	BLACK	1	6X6 WOOD POST	-	13.7	-	-	-	STA. 142+00, LT.	645.271
															← SIGN ASSEMBLY #6 SIGN ASSEMBLY #10 →	STA. 148+95, RT. STA. 167+27, RT.
M3-1		3	12	24	2.00 (6.00)	BLUE	WHITE	SIGN ASSEMBLY #5 SIGN ASSEMBLY #8 SIGN ASSEMBLY #9			-	-	STA. 143+10 RT. STA. 160+17 RT. STA. 167+12 LT.	645.271 645.271 645.271		
		1	12	24	2.00 (2.00)	WHITE	BLACK	← MOUNT WITH MI-5 →					STA. 142+00 LT.	645.271		
M3-3		5	12	24	2.00 (10.00)	BLUE	WHITE	SIGN ASSEMBLY #5 SIGN ASSEMBLY #6 SIGN ASSEMBLY #6 SIGN ASSEMBLY #6 SIGN ASSEMBLY #7 SIGN ASSEMBLY #9 SIGN ASSEMBLY #10			-	-	STA. 143+10, RT. STA. 148+95, RT. STA. 148+95, RT. STA. 148+95, RT. STA. 155+85, LT. STA. 167+12, LT. STA. 167+27, RT.	645.271 645.271 645.271 645.271 645.271 645.271 645.271		
		2	12	24	2.00 (4.00)	WHITE	BLACK	← →								
M4-5		7	12	24	2.00 (14.00)	BLUE	WHITE	SIGN ASSEMBLY #6 SIGN ASSEMBLY #7 SIGN ASSEMBLY #8 SIGN ASSEMBLY #12 SIGN ASSEMBLY #16 SIGN ASSEMBLY #17 SIGN ASSEMBLY #18			-	-	STA. 148+95, RT. STA. 155+85, LT. STA. 160+17, RT. SIGN ASSEMBLY #12 SIGN ASSEMBLY #16 SIGN ASSEMBLY #17 SIGN ASSEMBLY #18	645.271 645.271 645.271 645.271 645.271 645.271 645.271		
		2	12	24	2.00 (4.00)	WHITE	BLACK	SIGN ASSEMBLY #6 SIGN ASSEMBLY #10					STA. 148+95, RT. STA. 167+27, RT.	645.271 645.271		
M5-1 (L)		1	15	21	2.19 (2.19)	BLUE	WHITE	← SIGN ASSEMBLY #7 →			-	-	STA. 155+85, LT.	645.271		
M5-1 (R)		1	15	21	2.19 (2.19)	BLUE	WHITE	← SIGN ASSEMBLY #8 →					STA. 160+17, RT.	645.271		
M5-6		2	18	24	3.00 (6.00)	BLUE	WHITE	← SIGN ASSEMBLY #12 SIGN ASSEMBLY #12 →			-	-	SIGN ASSEMBLY #12 SIGN ASSEMBLY #12	645.271 645.271		
M6-1 (L)		3	15	21	2.19 (6.57)	BLUE	WHITE	SIGN ASSEMBLY #9 SIGN ASSEMBLY #17 SIGN ASSEMBLY #17					STA. 167+12, LT. SIGN ASSEMBLY #17 SIGN ASSEMBLY #17	645.271 645.271 645.271		
M6-1 (R)		3	15	21	2.19 (6.57)	BLUE	WHITE	SIGN ASSEMBLY #5 SIGN ASSEMBLY #16 SIGN ASSEMBLY #16			-	-	STA. 143+10, RT. SIGN ASSEMBLY #16 SIGN ASSEMBLY #16	645.271 645.271 645.271		
M6-3		4	15	21	2.19 (8.76)	BLUE	WHITE	SIGN ASSEMBLY #5 SIGN ASSEMBLY #9 SIGN ASSEMBLY #18 SIGN ASSEMBLY #18					STA. 143+10, RT. STA. 167+12, LT. SIGN ASSEMBLY #18 SIGN ASSEMBLY #18	645.271 645.271 645.271 645.271		

Date: 10/17/2022

Filename: ...MSTA\_Sign\_Summary\_11.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	KLW	10\22	Checked	TWM	10\22
Drawn	KLW	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
ROUTE 112 SIGN SUMMARY  
PROPOSED - 7

SHEET NUMBER: SS-51  
CONTRACT: 2022.07  
234 OF 735

PROPOSED SIGN SUMMARY - ROUTE 112

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	LOCATION	PAY ITEM NUMBER
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)				
R1-1		4	36	36	9.00 (36.00)	RED	WHITE	1	6X6 WOOD POST	-	14.3 15.0 15.0 14.4	-	-	STA. 145+19, RT. STA. 23+94, RT. STA. 23+62, LT. STA. 24+20, LT.	645.271 645.271 645.271 645.271	
R1-2		1	48	48	6.93 (6.93)	WHITE/RED	RED	1	6X6 WOOD POST	-	14.6	-	-	STA. 147+32, RT.	645.271	
R2-1(35)		1	30	36	7.50 (7.50)	WHITE	BLACK	1	6X6 WOOD POST	-	14.3	-	-	STA. 158+00, LT.	645.271	
R3-1		1	24	24	4.00 (4.00)	WHITE	BLACK/RED	← MOUNT ON MAST ARM →			-	-	STA. 147+38, LT.	645.271		
R3-2		1	24	24	4.00 (4.00)	WHITE	BLACK/RED	← MOUNT ON MAST ARM →			-	-	STA. 148+50, RT.	645.271		
R3-5(R)		1	30	36	7.50 (7.50)	WHITE	BLACK	← MOUNT ON MAST ARM →			-	-	STA. 165+61, RT.	645.271		
R3-6(R)		1	30	36	7.50 (7.50)	WHITE	BLACK	← MOUNT ON MAST ARM →			-	-	STA. 164+49, LT.	645.271		
R3-6(L)		1	30	36	7.50 (7.50)	WHITE	BLACK	← MOUNT ON MAST ARM →			-	-	STA. 165+45, LT.	645.271		
R3-8(T-R)		2	30	30	6.25 (12.50)	WHITE	BLACK	1	6X6 WOOD POST	-	13.1 13.9	-	-	STA. 143+88, RT. STA. 145+45, RT.	645.271 645.271	
R3-8(L-T)		4	30	30	6.25 (25.00)	WHITE	BLACK	1	6X6 WOOD POST	-	14.2 13.7 13.9 13.1	-	-	STA. 146+01, LT. STA. 151+74, LT. STA. 159+75, LT. STA. 169+80, RT.	645.271 645.271 645.271 645.271	
R3-8(LT-R)		2	30	30	6.25 (12.50)	WHITE	BLACK	1	6X6 WOOD POST	-	13.1 13.1	-	-	STA. 158+85, RT. STA. 160+85, RT.	645.271 645.271	
R3-8(L-TR)		1	30	30	6.25 (6.25)	WHITE	BLACK	1	6X6 WOOD POST	-	13.1	-	-	STA. 169+20, LT.	645.271	
R3-9b		2	36	24	6.00 (12.00)	WHITE	BLACK	1	6X6 WOOD POST	-	15.0 15.0	-	-	STA. 144+11, RT. STA. 144+13, LT.	645.271 645.271	
R3-9cP		1	12	30	2.50 (2.50)	WHITE	BLACK	← MOUNT WITH R3-9b →			-	-	STA. 144+13, LT.	645.271		
R3-9dP		1	12	30	2.50 (2.50)	WHITE	BLACK	← MOUNT WITH R3-9b →			-	-	STA. 144+11, RT.	645.271		
R3-18		1	36	36	9.00 (9.00)	WHITE/RED	BLACK	← MOUNT WITH R4-7 →			-	-	STA. 147+38, RT.	645.271		

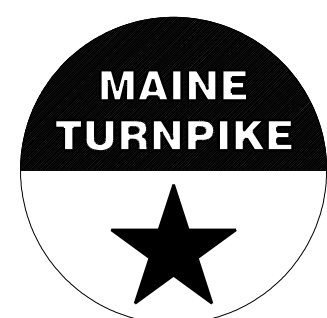
Date:10/17/2022

Filename: ...MSTA\_Sign\_Summary\_12.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	KLW	10\22	Checked	TWM	10\22
Drawn	KLW	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

### INTERCHANGE IMPROVEMENTS

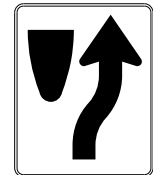





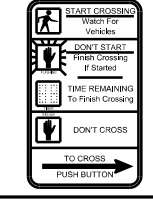
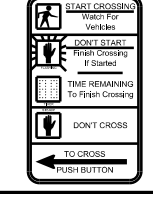

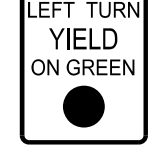
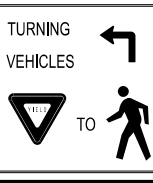
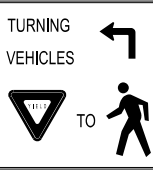

### SACO (EXITS 35-36)

### ROUTE 112 SIGN SUMMARY

### PROPOSED - 8

SHEET NUMBER: SS-52  
CONTRACT:2022.07  
235 OF 735

PROPOSED SIGN SUMMARY - ROUTE 112


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	LOCATION	PAY ITEM NUMBER
			HEIGHT (IN.)	WIDTH (IN.)	AREA (SQ. FT.)	BACKGROUND	LEGEND			LEFT (FEET)	CENTER (FEET)	RIGHT (FEET)				
R4-7		2	24	30	5.00 (10.00)	WHITE	BLACK	1 1	6X6 WOOD POST	-	13.0 13.0	-	-	STA. 146+65, RT. STA. 147+38	645.271 645.271	
R5-1		4	48	48	16.00 (64.00)	WHITE/ RED	WHITE	1	W6X15	-	11.1	-	24" DIA.	YES	STA. 146+75, LT.	645.271
								1	W8X24	-	15.4 15.6 15.3	-	24" DIA.	YES	STA. 147+22, LT. STA. 147+38, LT. STA. 147+73, LT.	645.271 645.271 645.271
R5-1A		4	30	42	8.75 (35.00)	RED	WHITE	← MOUNT WITH R5-1 →						STA. 146+75, LT. STA. 147+22, LT. STA. 147+38, LT. STA. 147+73, LT.	645.271 645.271 645.271 645.271	
R5-11		1	24	30	5.00 (5.00)	WHITE	BLACK	1	6X6 WOOD POST	-	13.6	-	-	STA. 144+65, RT.	645.271	
R6-1R		3	12	36	3.00 (9.00)	BLACK/ WHITE	BLACK	← MOUNT WITH R5-1 →						STA. 147+22, LT. STA. 147+38, LT. STA. 147+70, LT.	645.271 645.271 645.271	
R6-1L		3	12	36	3.00 (9.00)	BLACK/ WHITE	BLACK	← MOUNT WITH R5-1 →						STA. 147+22, LT. STA. 147+38, LT. STA. 147+70, LT.	645.271 645.271 645.271	
R10-3E(R)		4	9	15	0.94 (3.76)	WHITE	BLACK/ ORANGE	← MOUNT ON MAST ARM OR PEDESTAL POLE →						STA. 147+12, RT. STA. 147+47, RT. STA. 148+22, RT. STA. 165+63, RT.	645.271 645.271 645.271 645.271	
R10-3E(L)		4	9	15	0.94 (3.76)	WHITE	BLACK/ ORANGE	← MOUNT ON MAST ARM OR PEDESTAL POLE →						STA. 147+26, RT. STA. 164+59, RT. STA. 165+75, LT. STA. 165+90, RT.	645.271 645.271 645.271 645.271	
R10-6		1	36	24	6.00 (6.00)	WHITE	BLACK	1	6X6 WOOD POST	-	14.9	-	-	STA. 148+50, LT.	645.271	
R10-12		3	30	36	7.50 (22.50)	WHITE	BLACK/ GREEN	← MOUNT ON MAST ARM →						STA. 147+38, LT. STA. 164+52, LT. STA. 165+55, RT.	645.271 645.271 645.271	
R10-15 (L)		2	30	30	6.25 (12.50)	WHITE/ YELLOW	BLACK/ RED	← MOUNT ON MAST ARM →						STA. 147+49, RT. STA. 164+61, RT.	645.271 645.271	
R10-15 (R)		2	30	30	6.25 (12.50)	WHITE/ YELLOW	BLACK/ RED	← MOUNT ON MAST ARM →						STA. 165+59, RT. STA. 165+57, RT.	645.271 645.271	
SP-12 (DI-1)		1	18	42	5.25 (5.25)	GREEN	WHITE	1	6X6 WOOD POST	-	12.9	-	-	STA. 23+50, LT.	645.271	

Date:10/17/2022

Filename: ...MSTA\_Sign\_Summary\_13.dgn

Scale: AS NOTED			
No.	Revision	By	Date

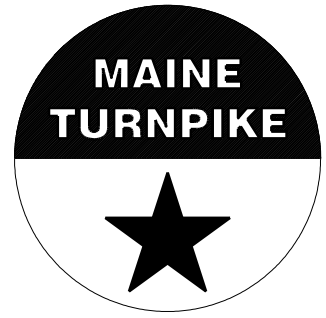
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

By	Date	By	Date
Designed	KLW 10\22	Checked	TWM 10\22
Drawn	KLW 10\22	In Charge of	LEM 10\22

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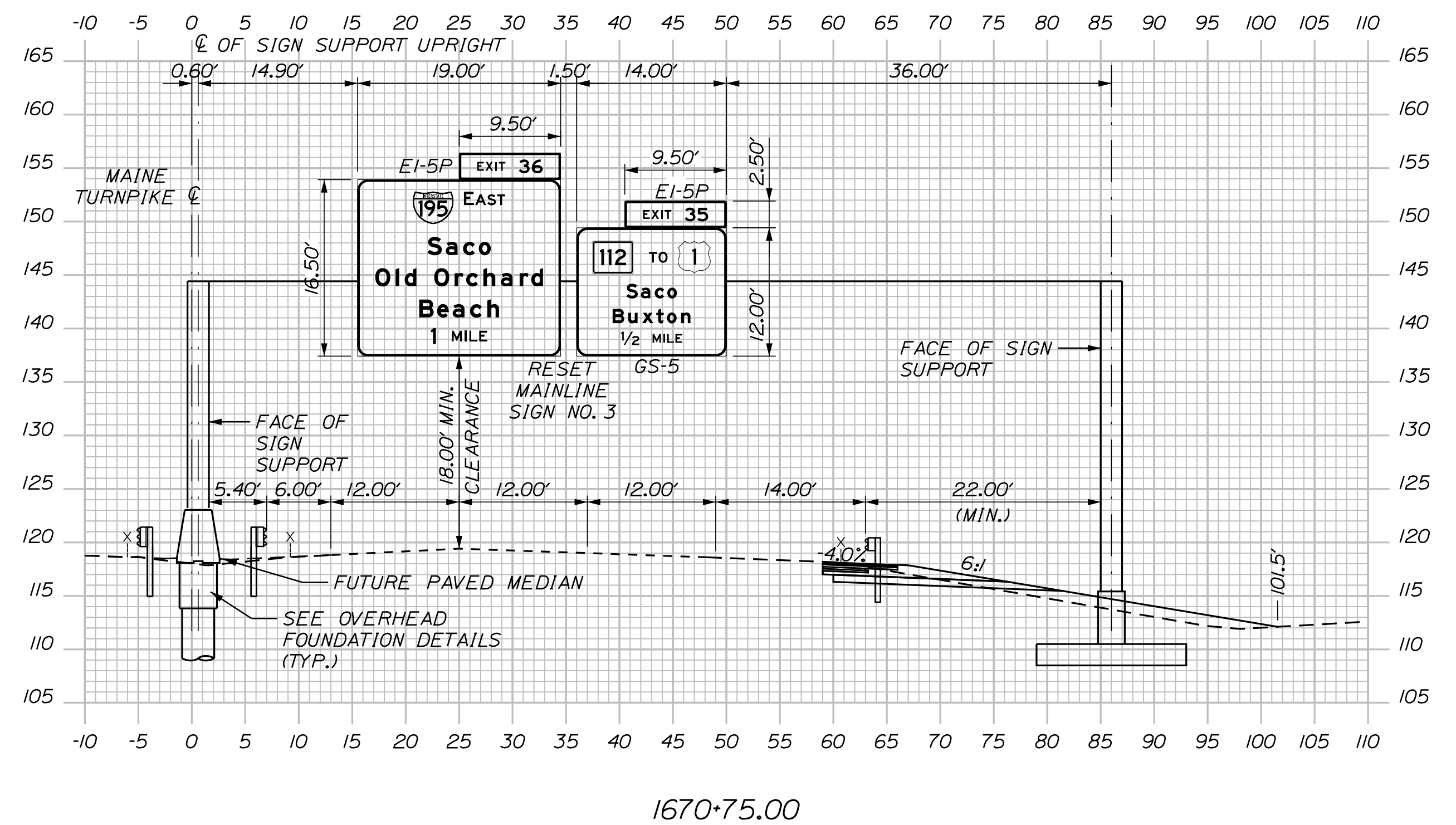
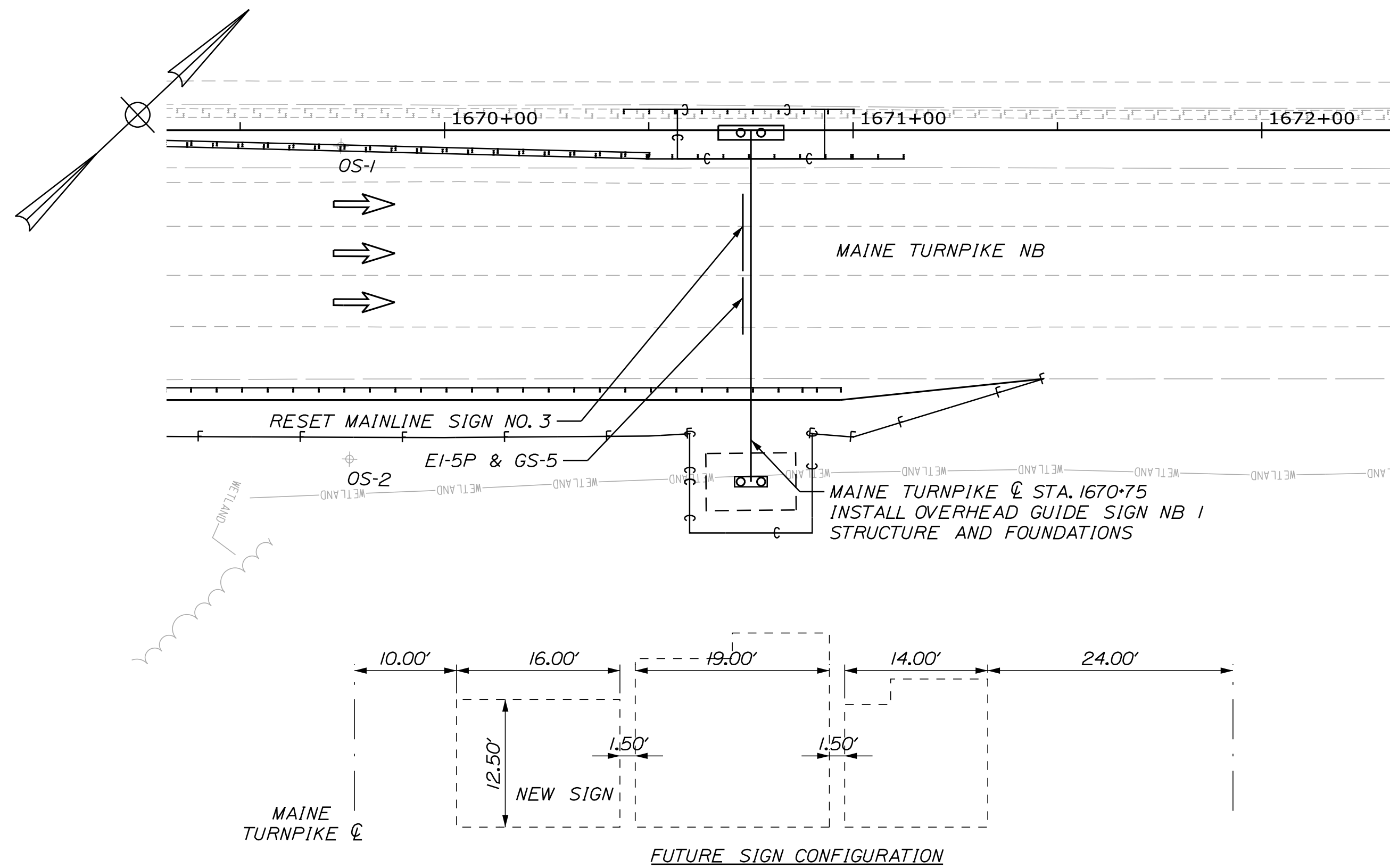
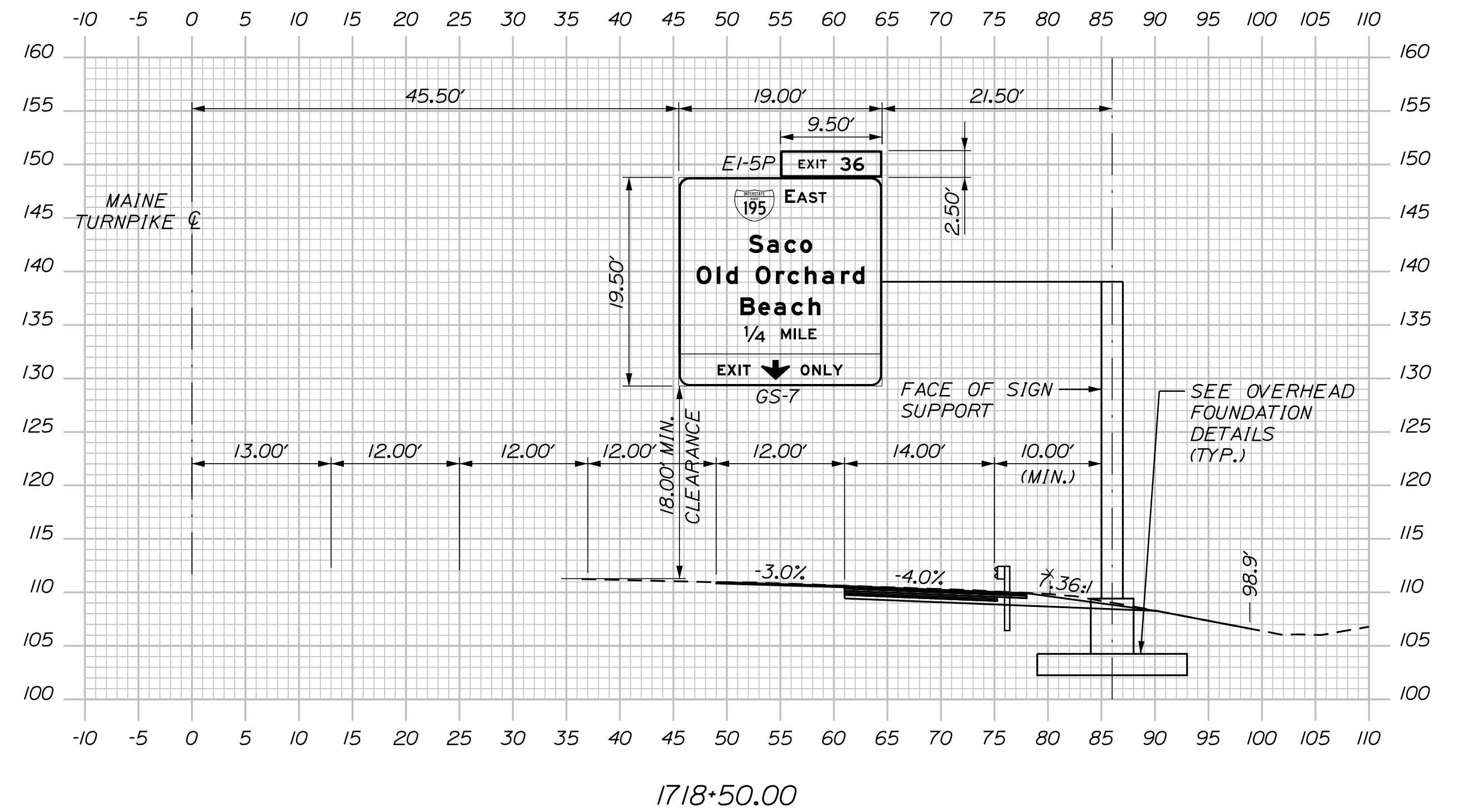
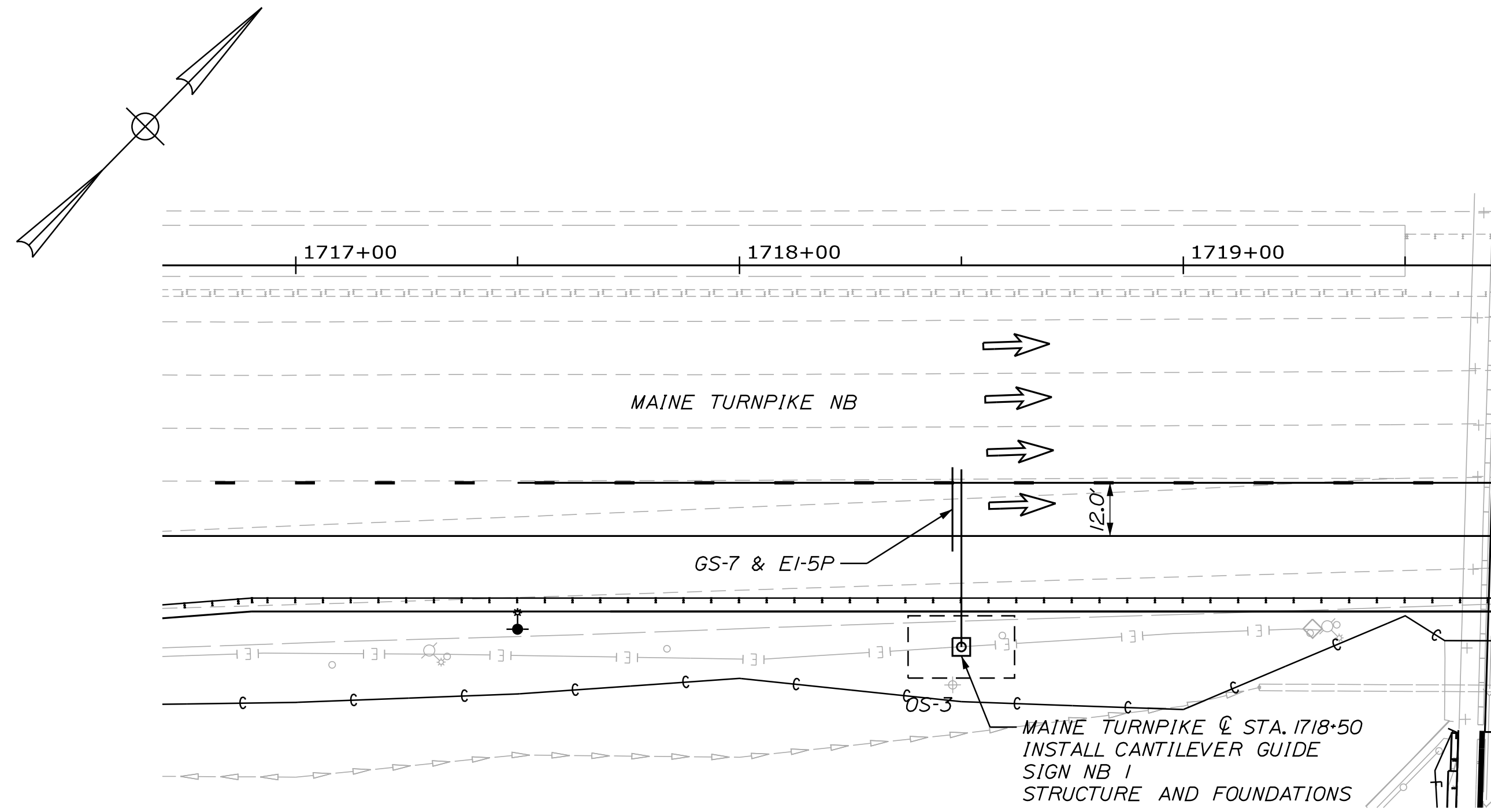
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

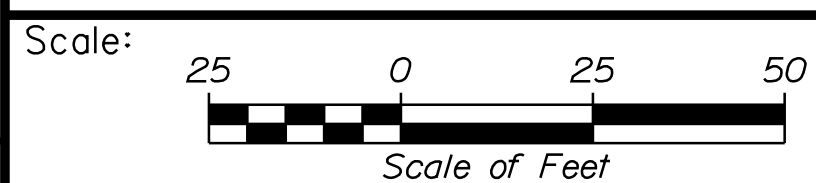
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35-36)  
ROUTE 112 SIGN SUMMARY  
PROPOSED - 9

SHEET NUMBER: SS-53  
CONTRACT:2022.07  
236 OF 735

Date: 10/17/2022



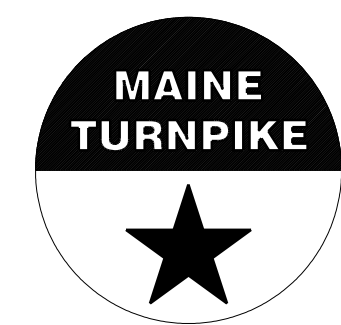
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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
OVERHEAD SIGNS PLAN AND SECTION  
(1 OF 5)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
	By	Date	
Designed	JRH	10\22	Checked
Drawn	CHL	10\22	In Charge of

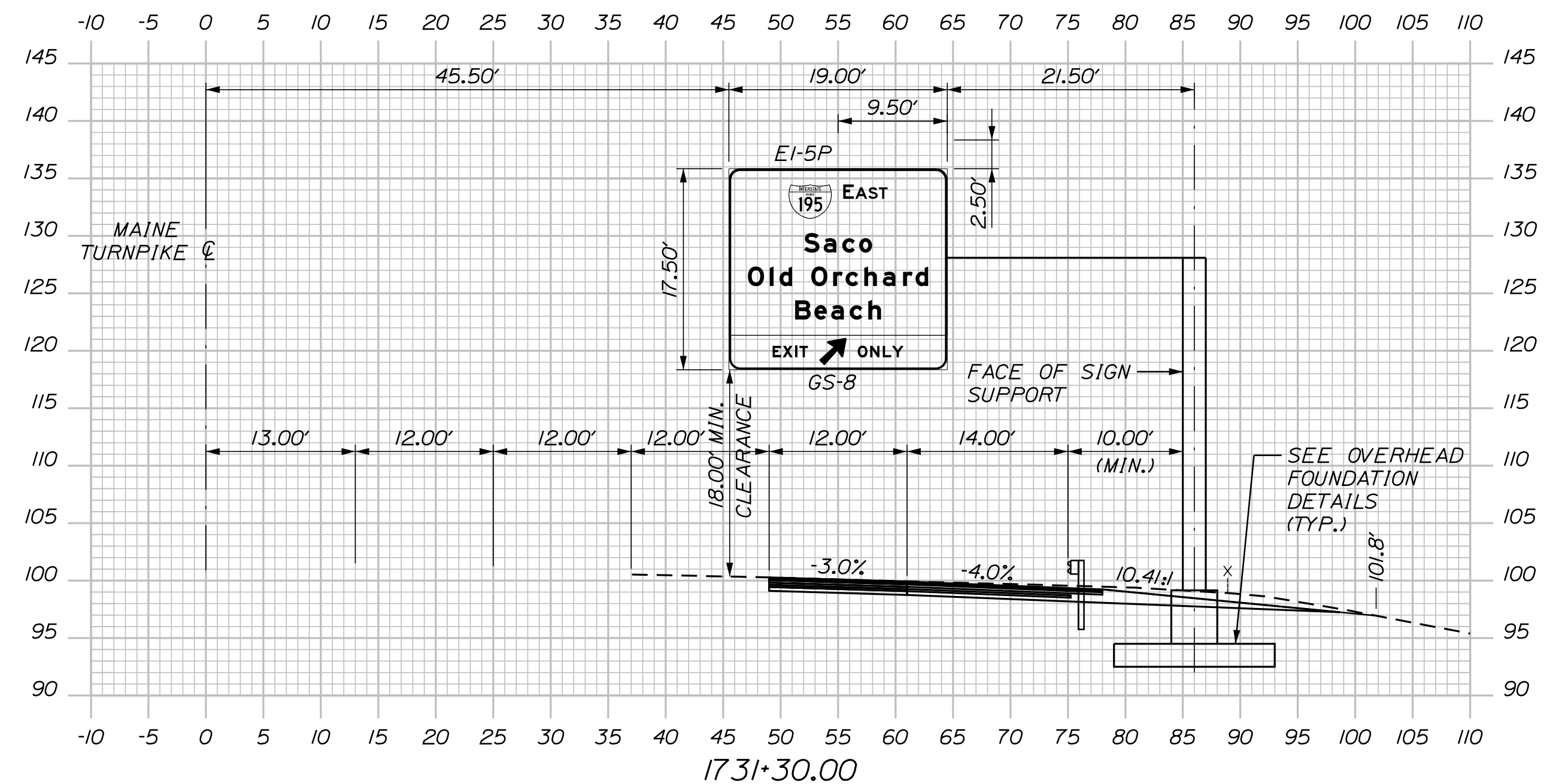
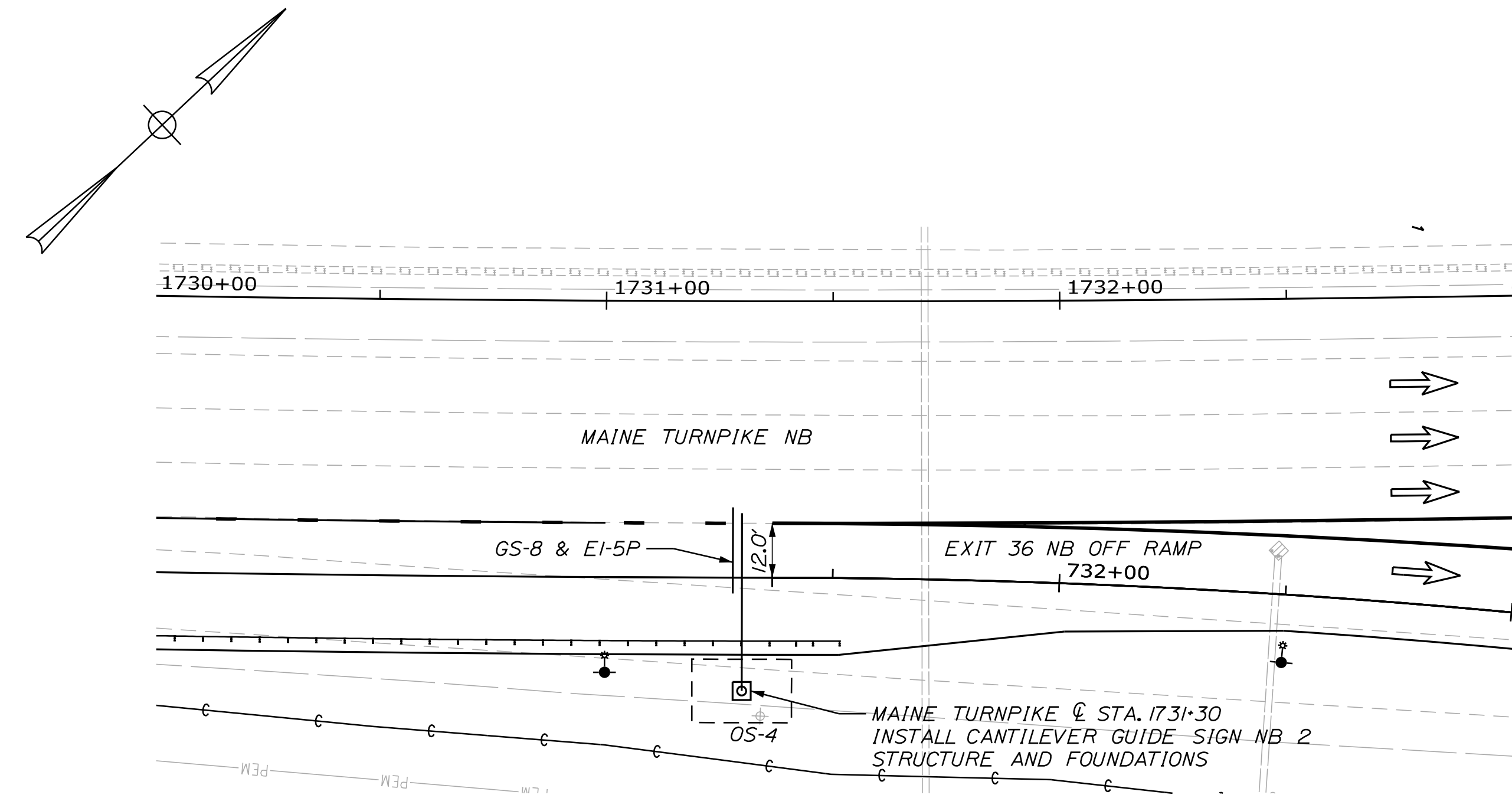
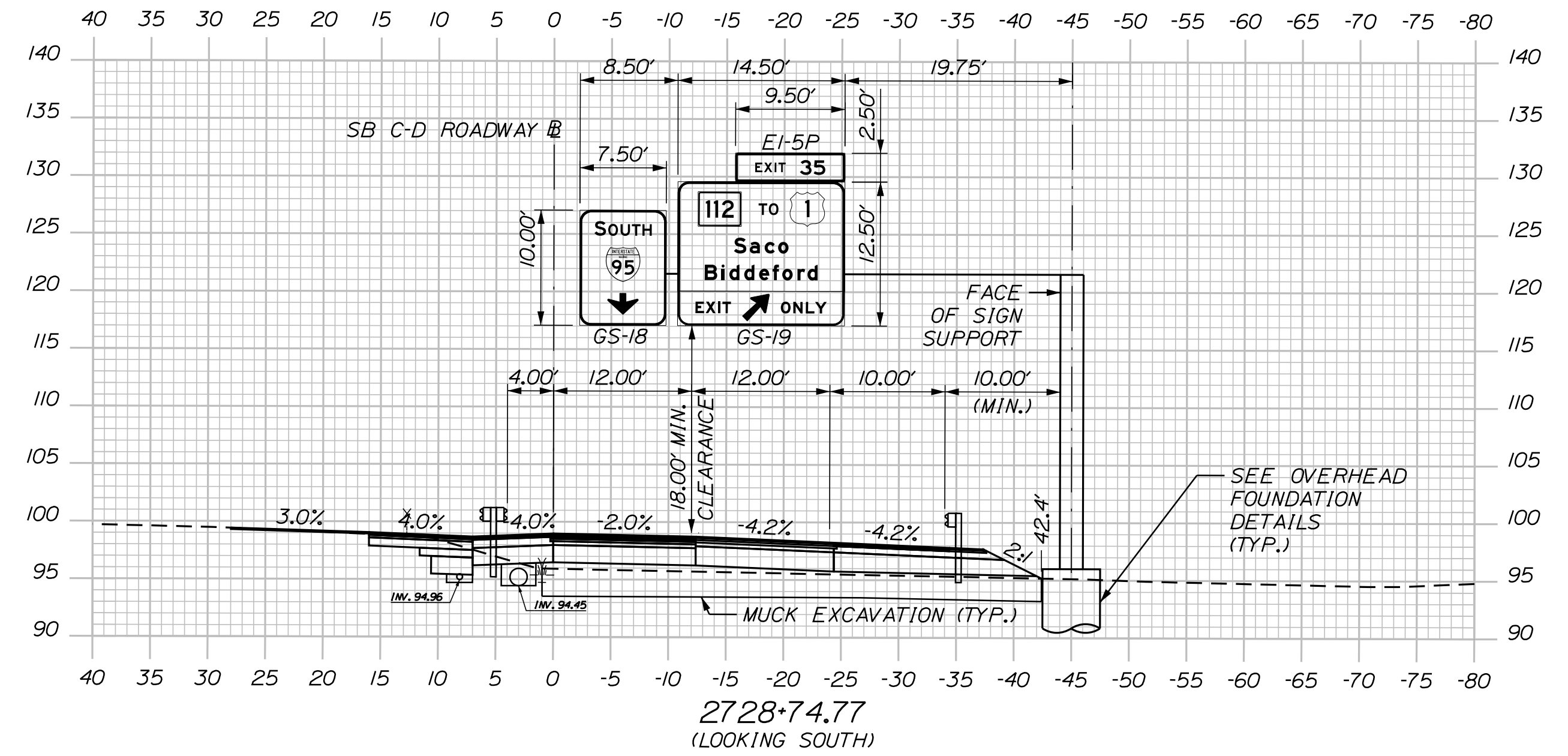
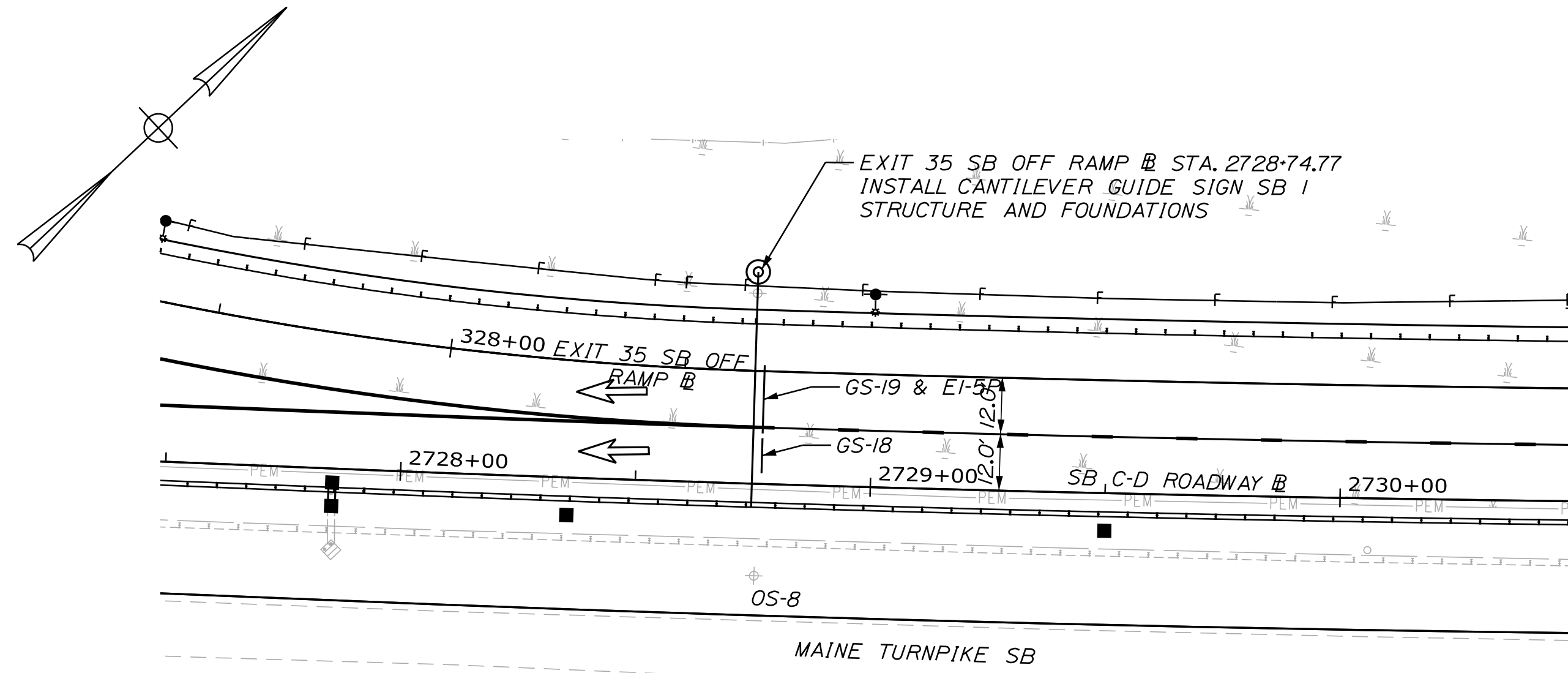
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

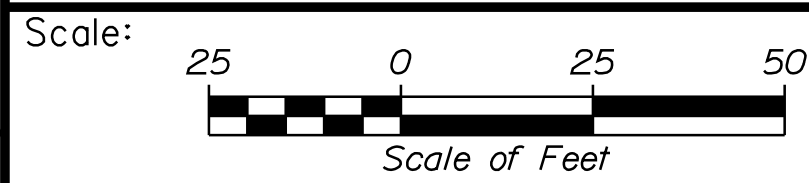
SHEET NUMBER: SS-32

237 OF 735

Date: 10/17/2022



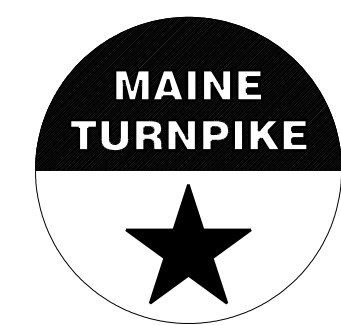
Filename: ...\_OH\_Signs\_Plan&Sec\_02.dgn



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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
OVERHEAD SIGNS PLAN AND SECTION  
(2 OF 5)

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date	By	Date
Designed		JRH	10\22	Checked	PLP 10\22
Drawn		CHL	10\22	In Charge of	LEM 10\22

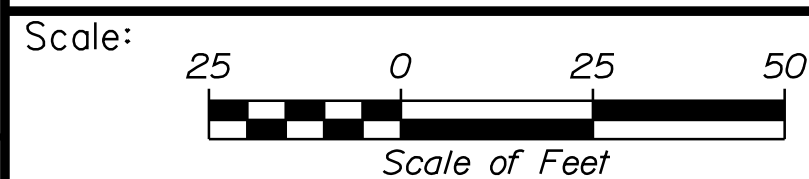
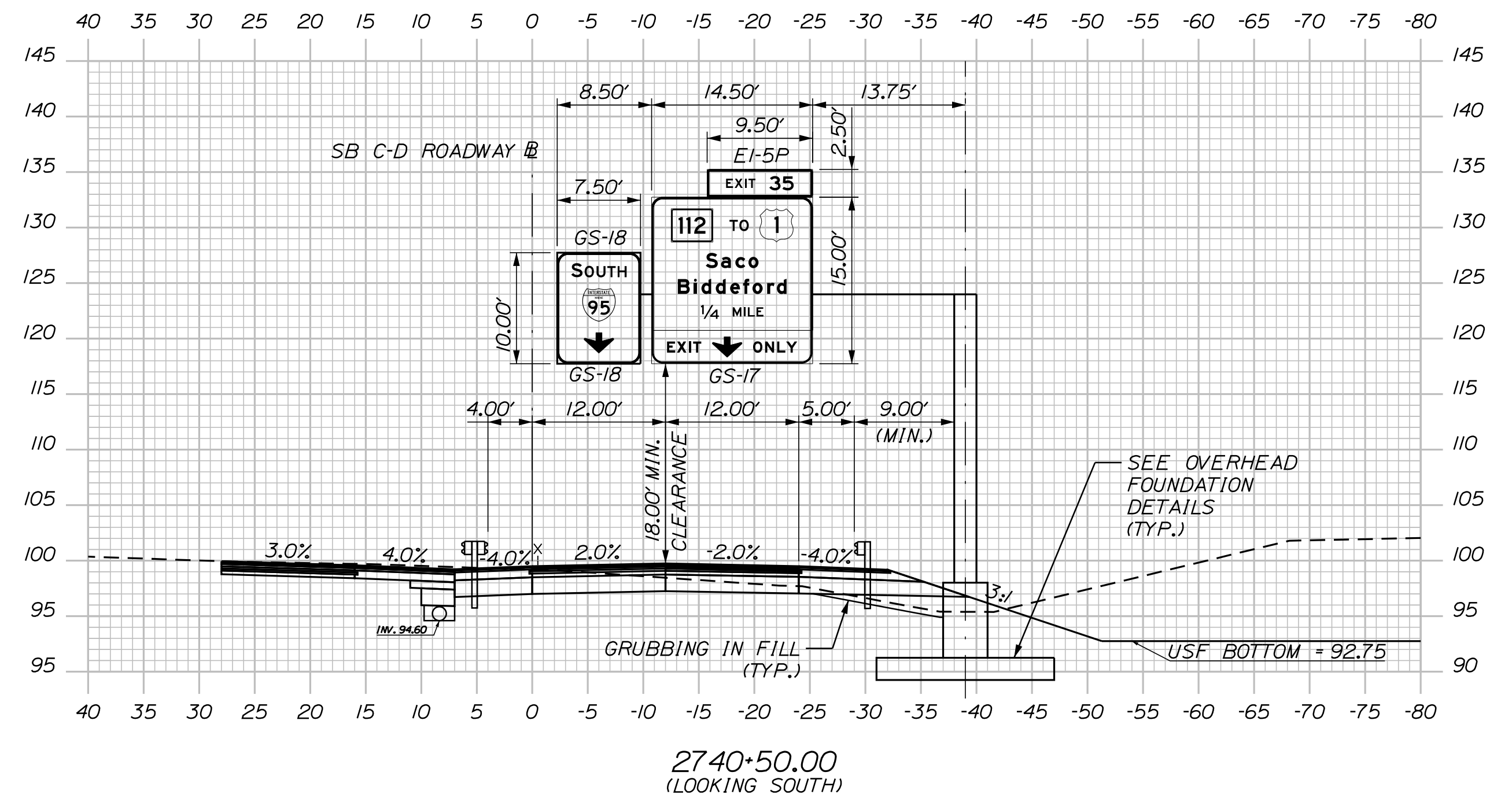
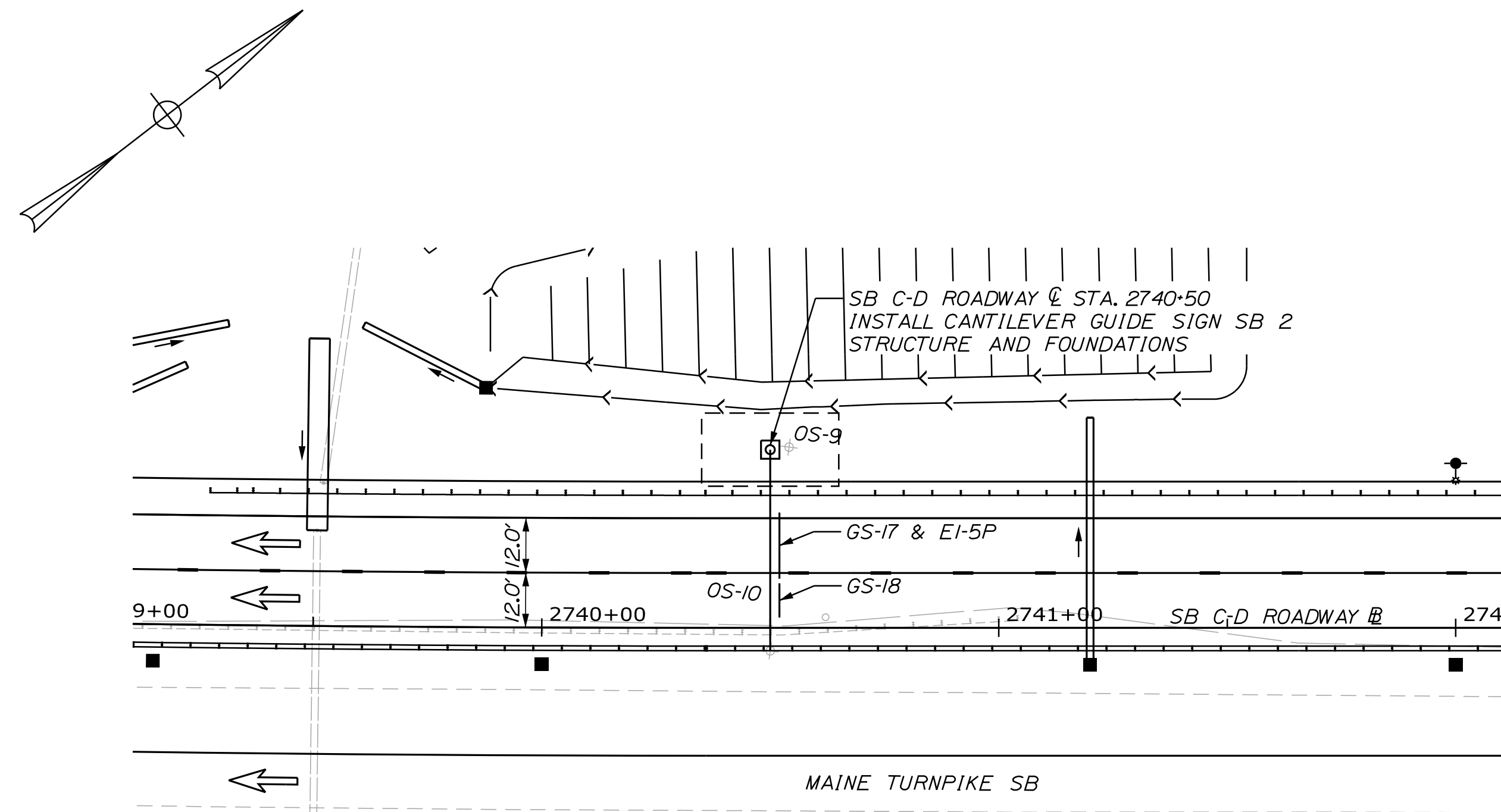
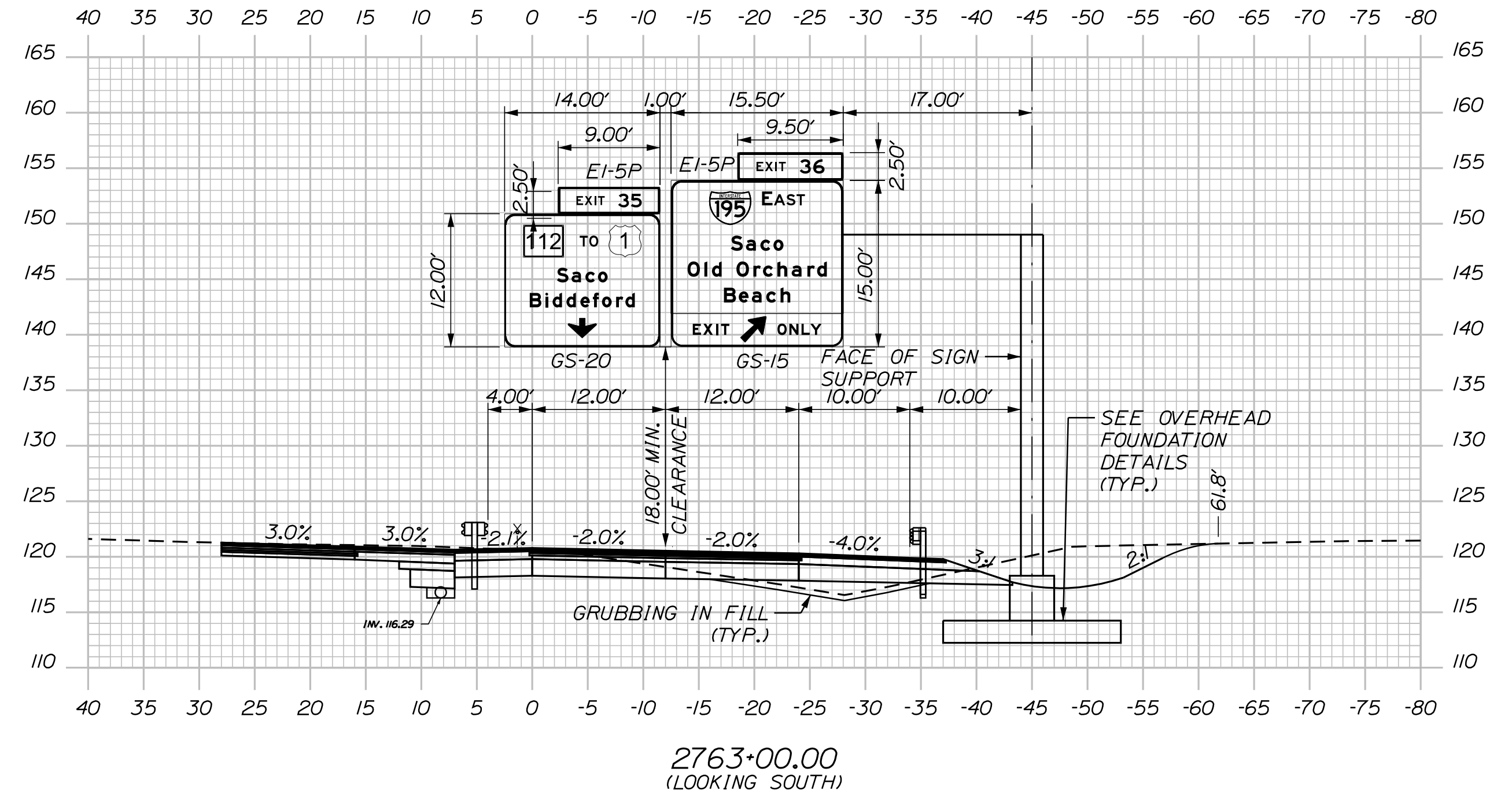
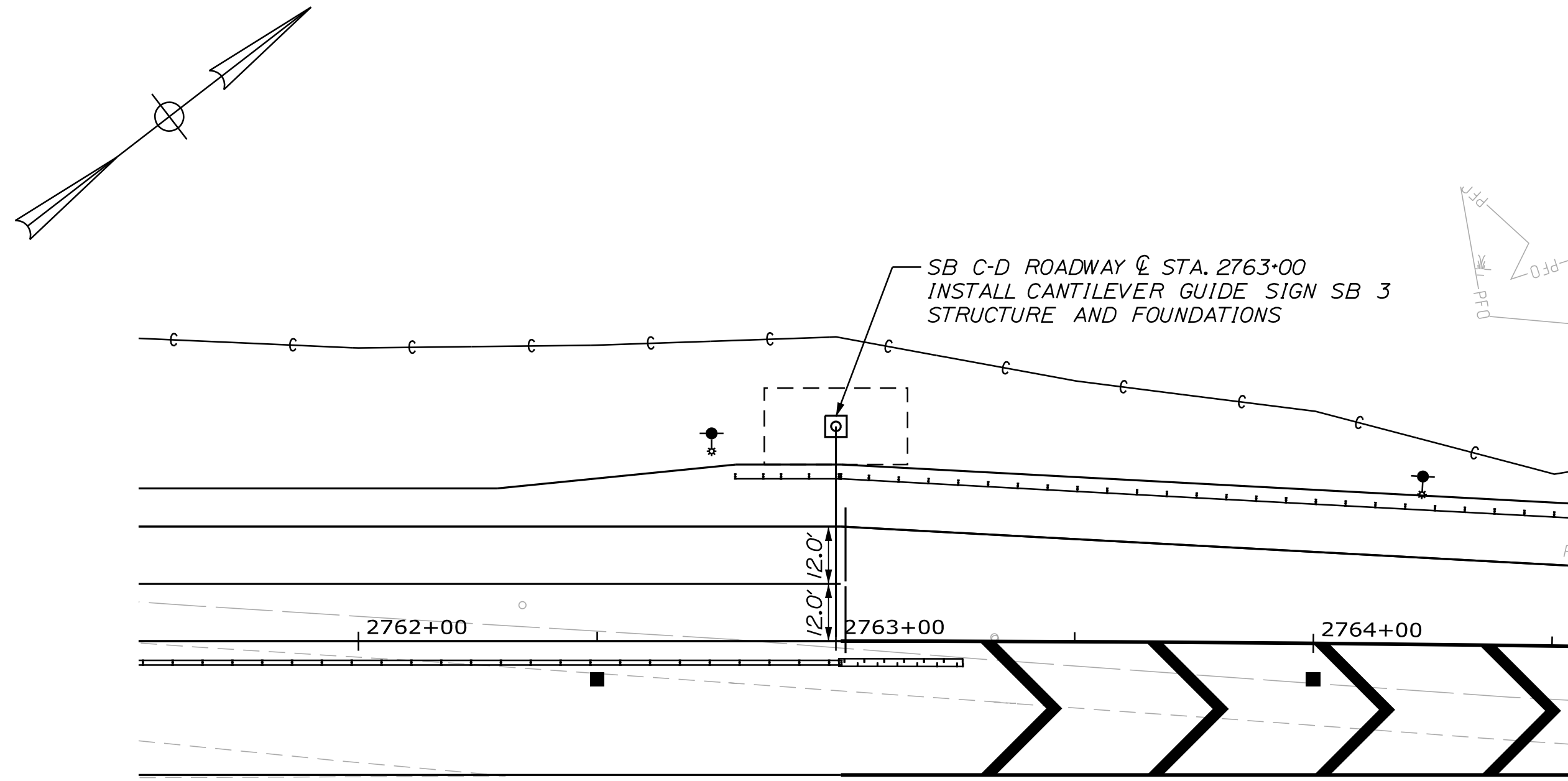
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: SS-33

238 OF 735

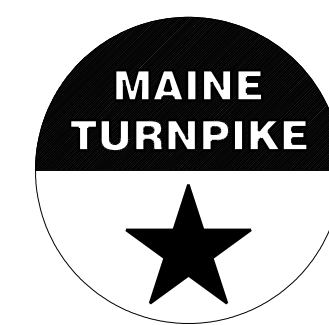
Date: 10/17/2022



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PORTLAND, ME 04102  
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THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
OVERHEAD SIGNS PLAN AND SECTION  
(3 OF 5)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
	By	Date	
Designed	JRH	10\22	Checked
Drawn	CHL	10\22	In Charge of

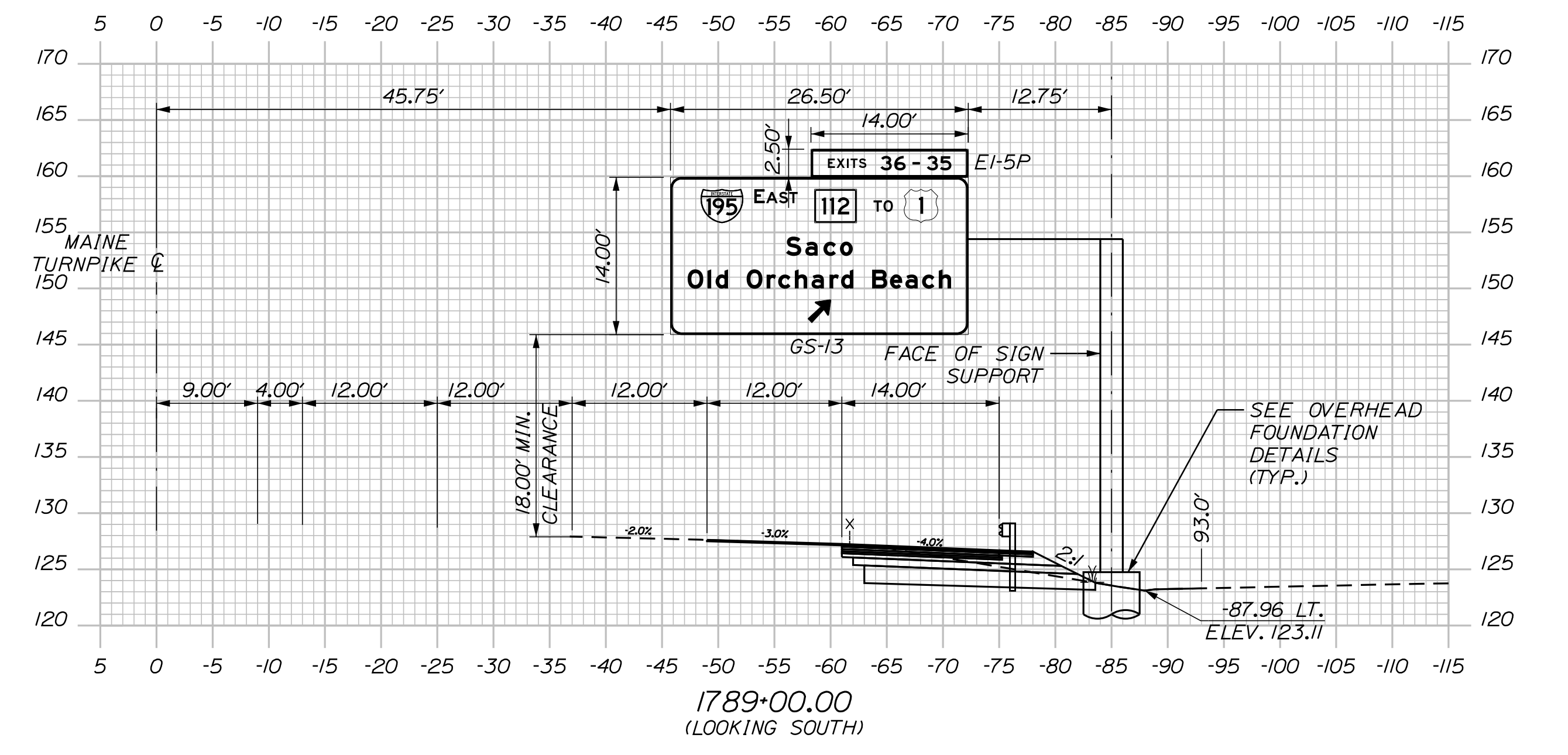
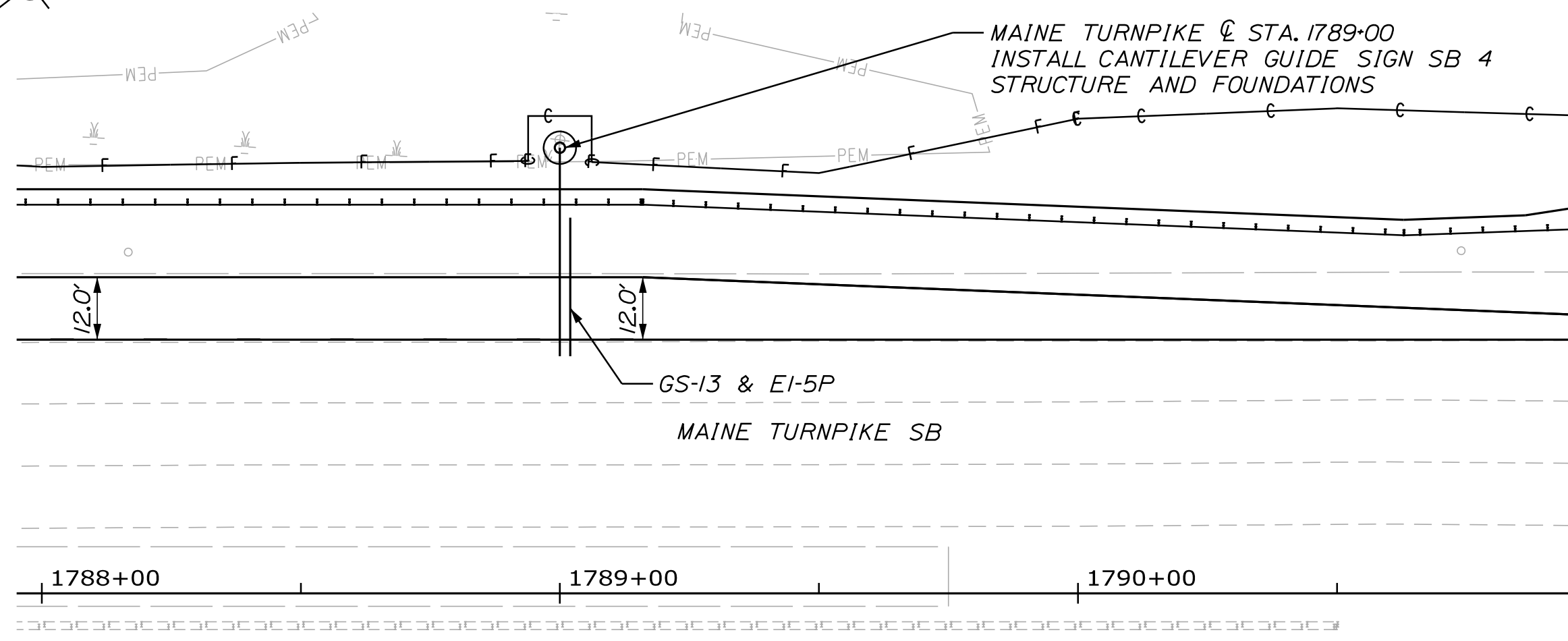
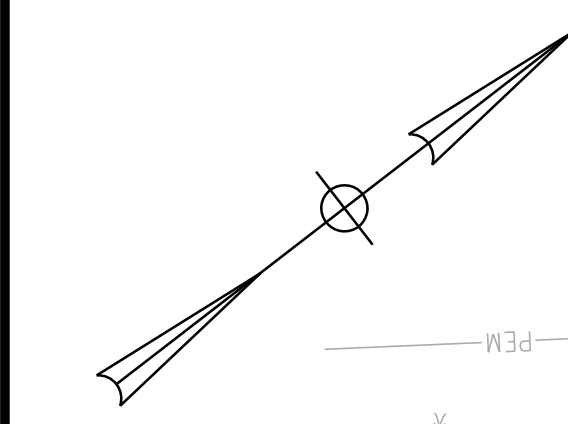
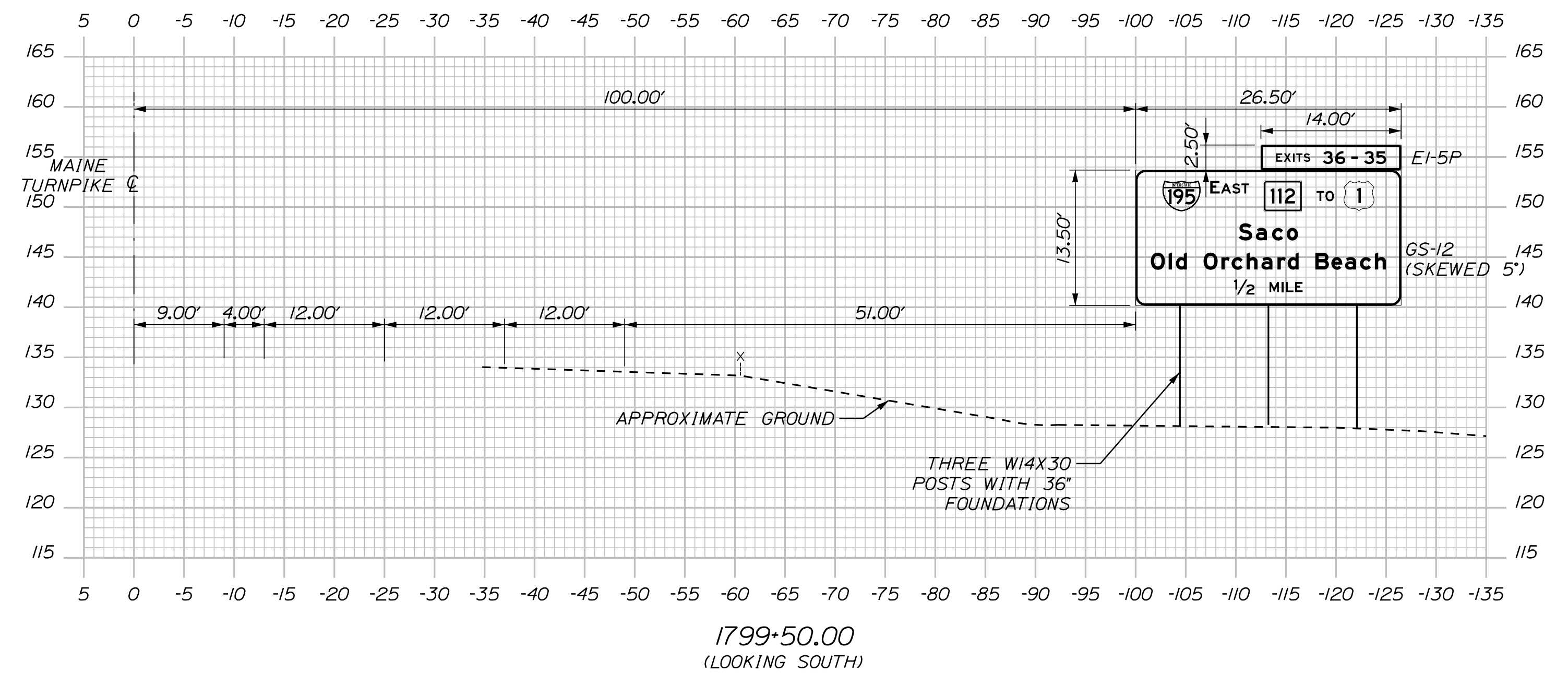
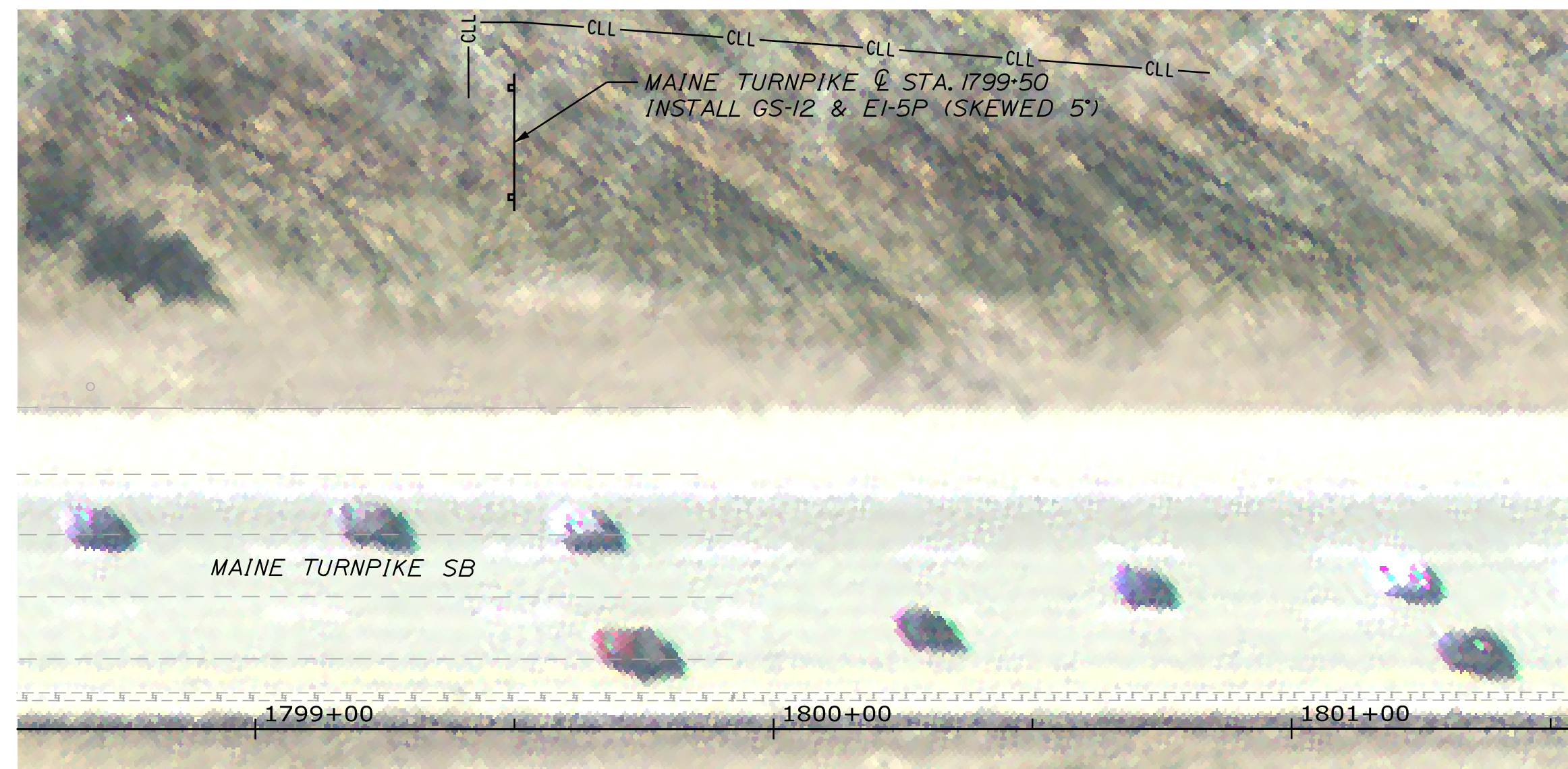
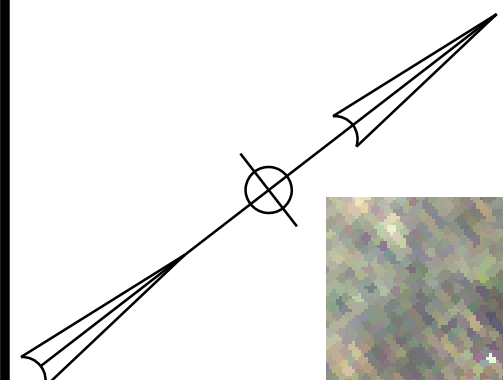
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: SS-34  
239 OF 735

Filename: ...\_OH\_Signs\_Plan&Sec1\_03.dgn

Date: 10/17/2022



Filename: ...\_OH\_Signs\_Plan&Sec.t\_04.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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TEL (207) 887-3448  
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

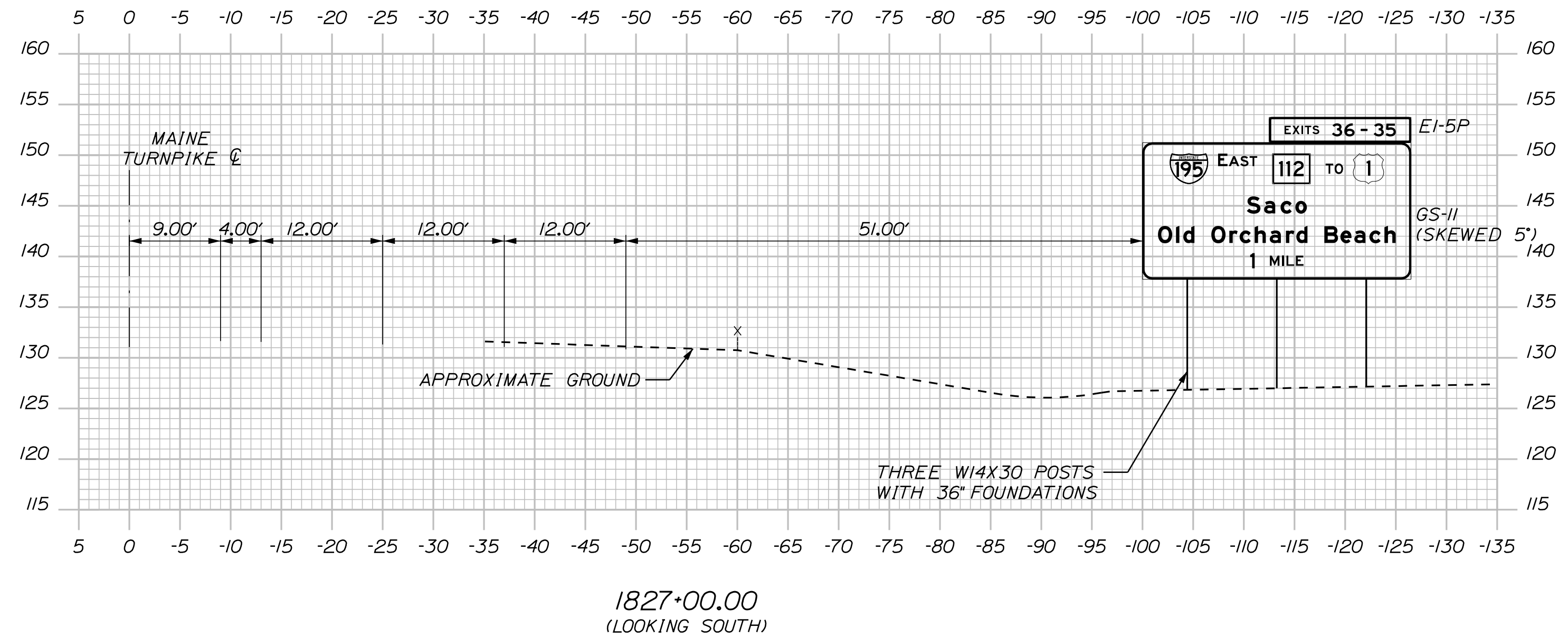
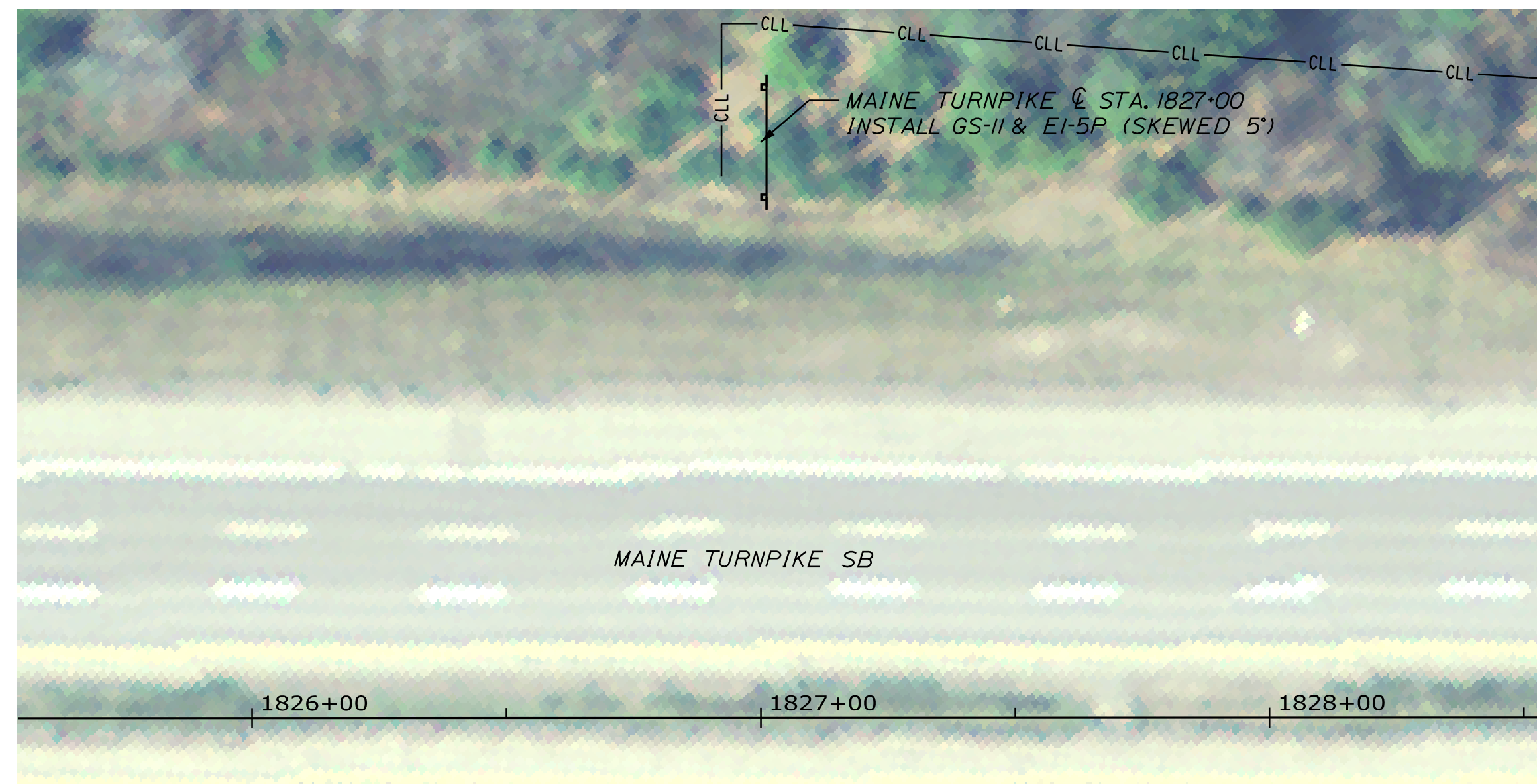
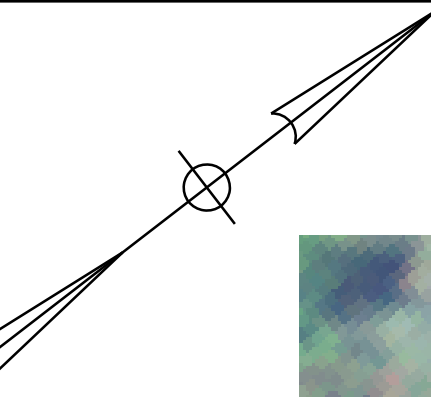
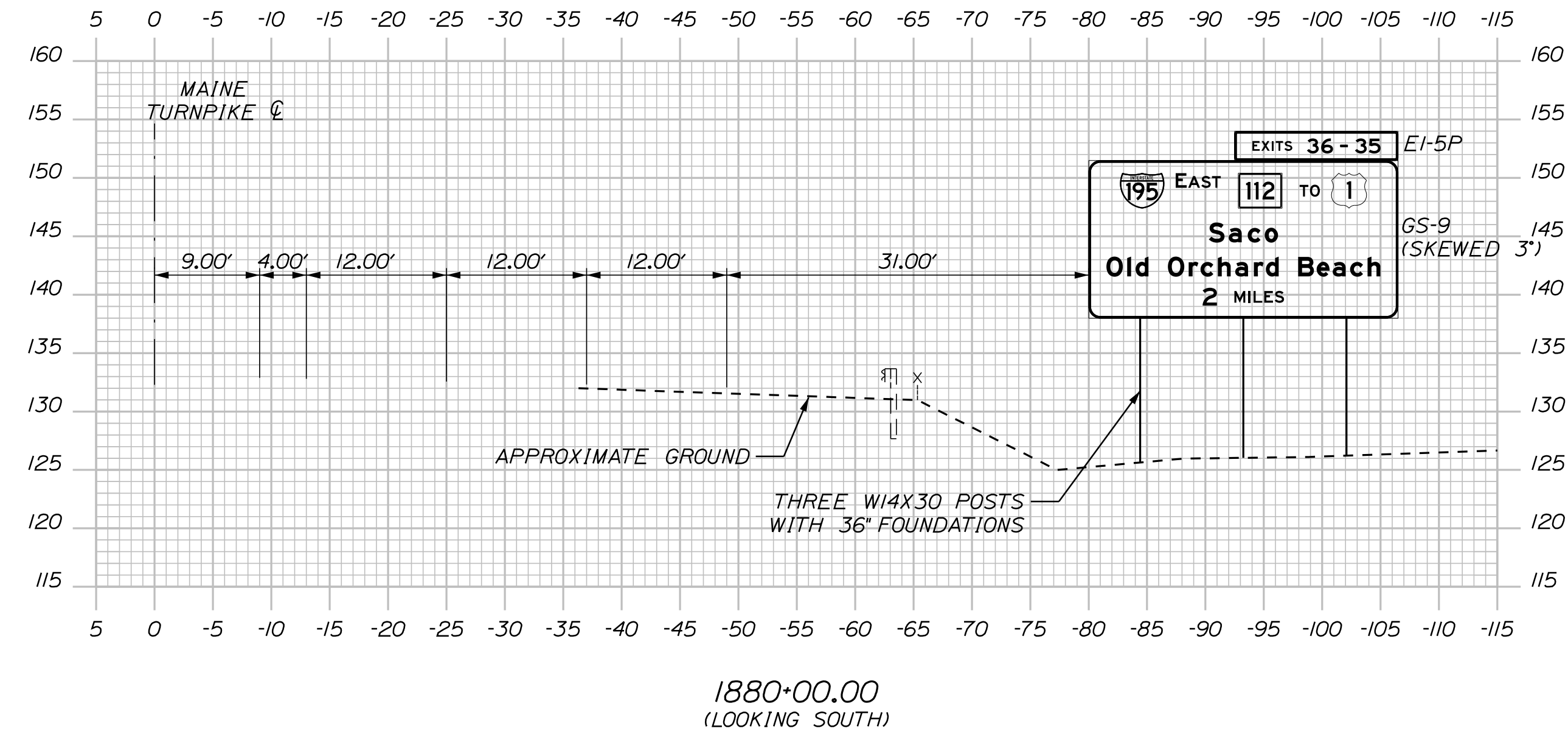
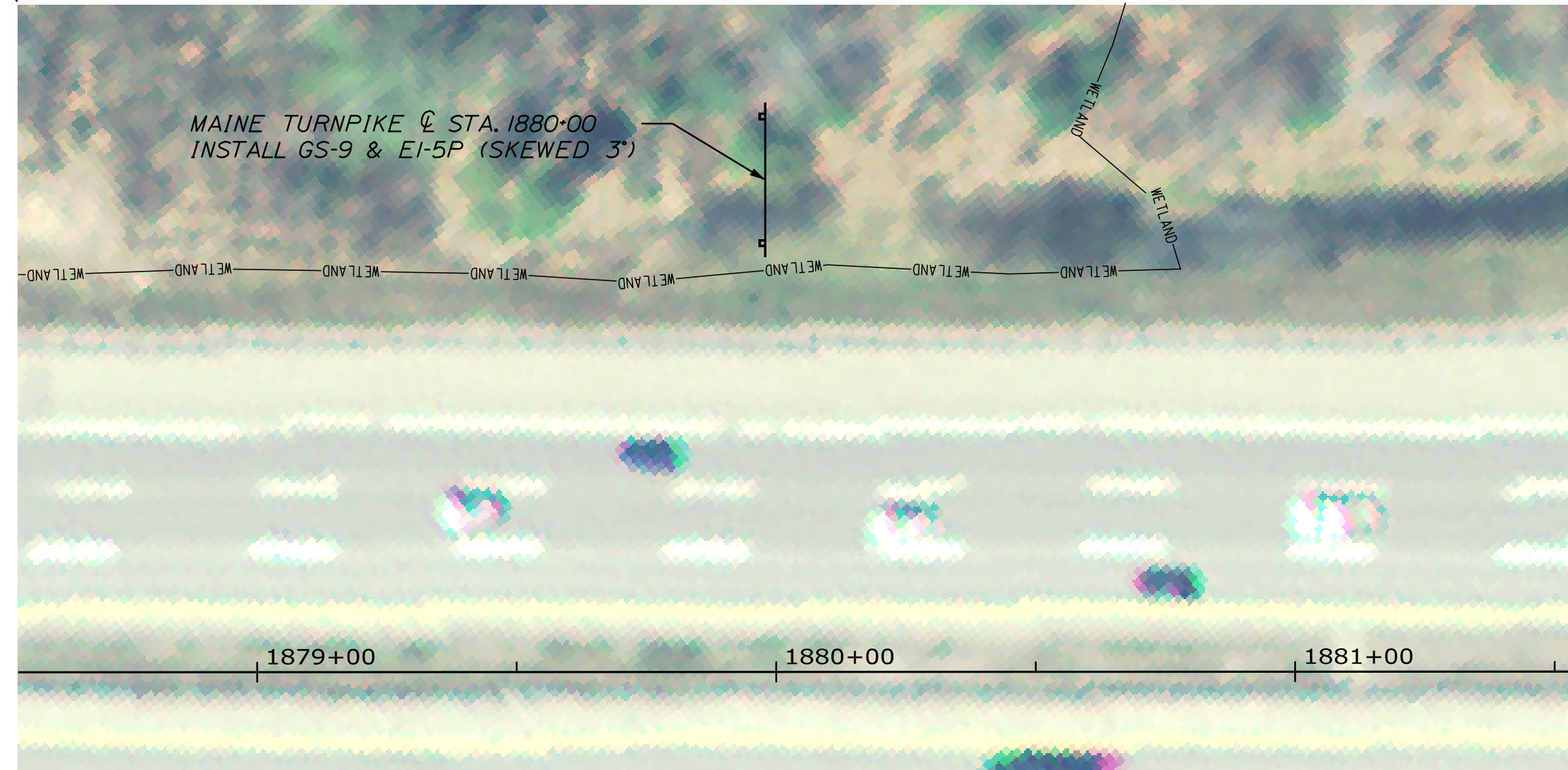
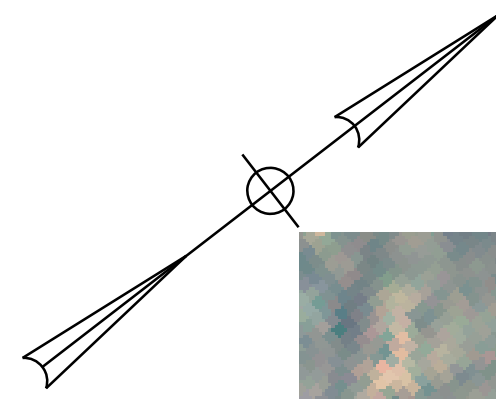
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
OVERHEAD SIGNS PLAN AND SECTION  
(4 OF 5)

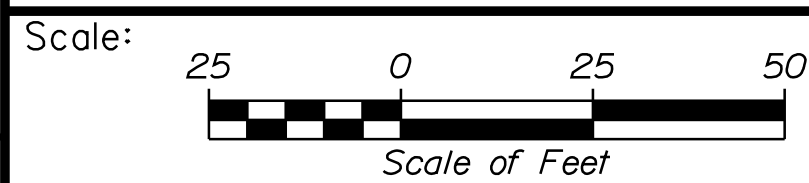
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CONTRACT: 2022.07  
240 OF 735



Date: 10/17/2022



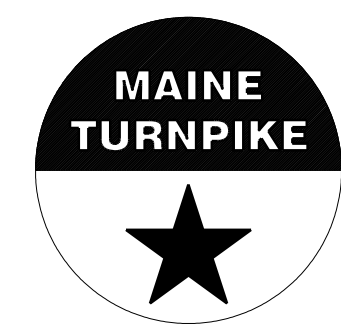
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Designed by:



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2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
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FAX (207) 883-3376



THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
OVERHEAD SIGNS PLAN AND SECTION  
(5 OF 5)

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

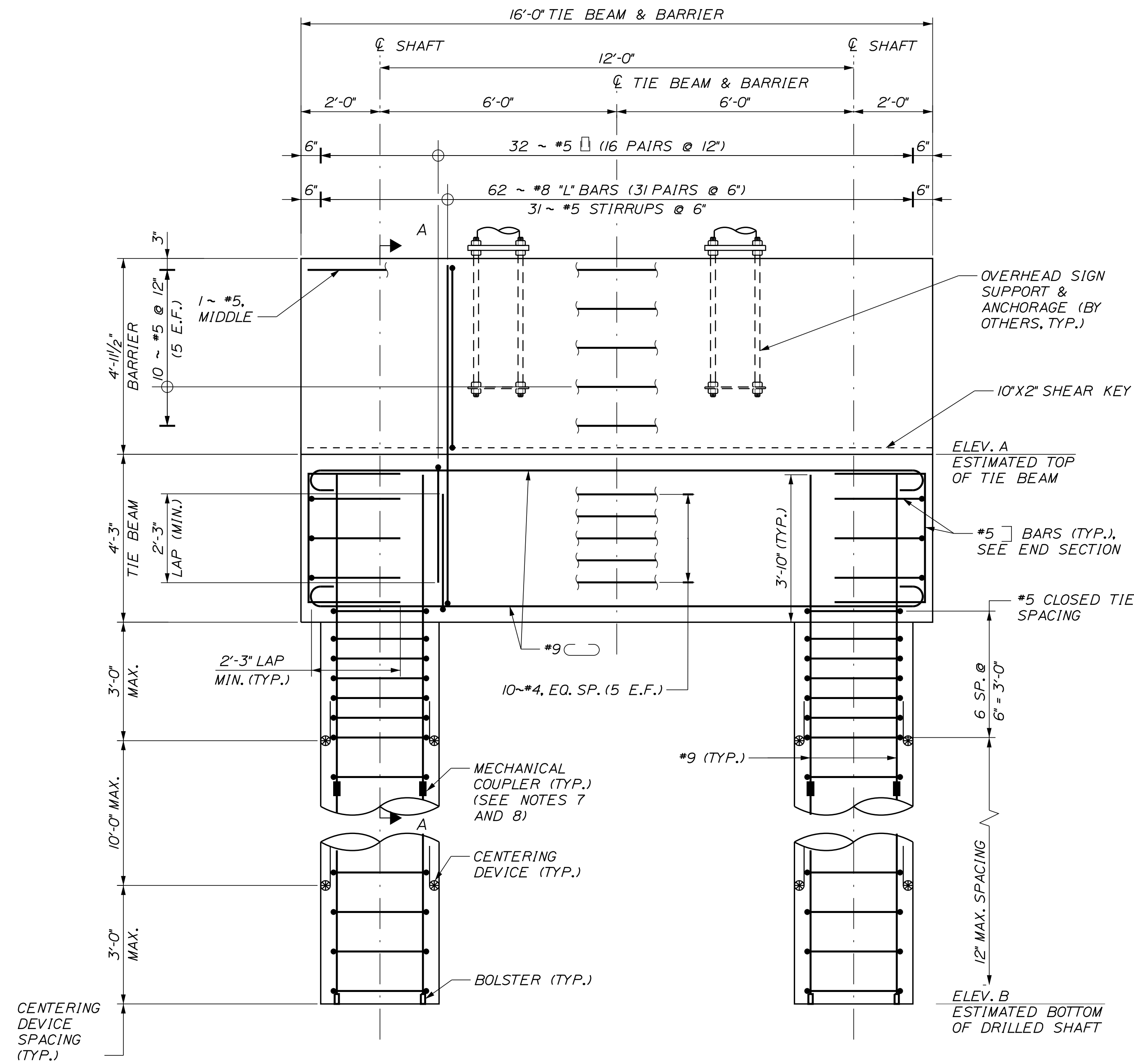
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

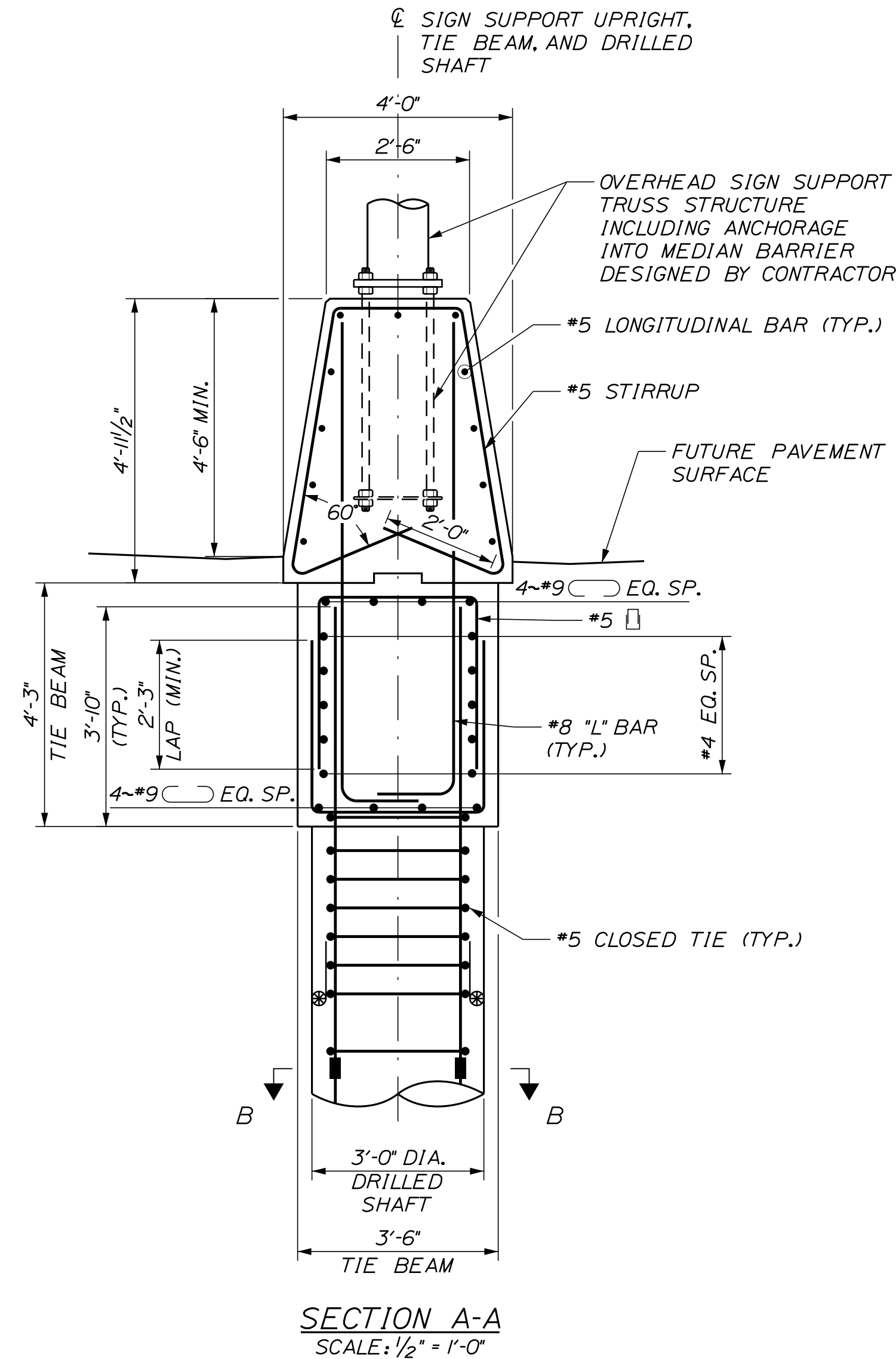
SHEET NUMBER: SS-36

241 OF 735

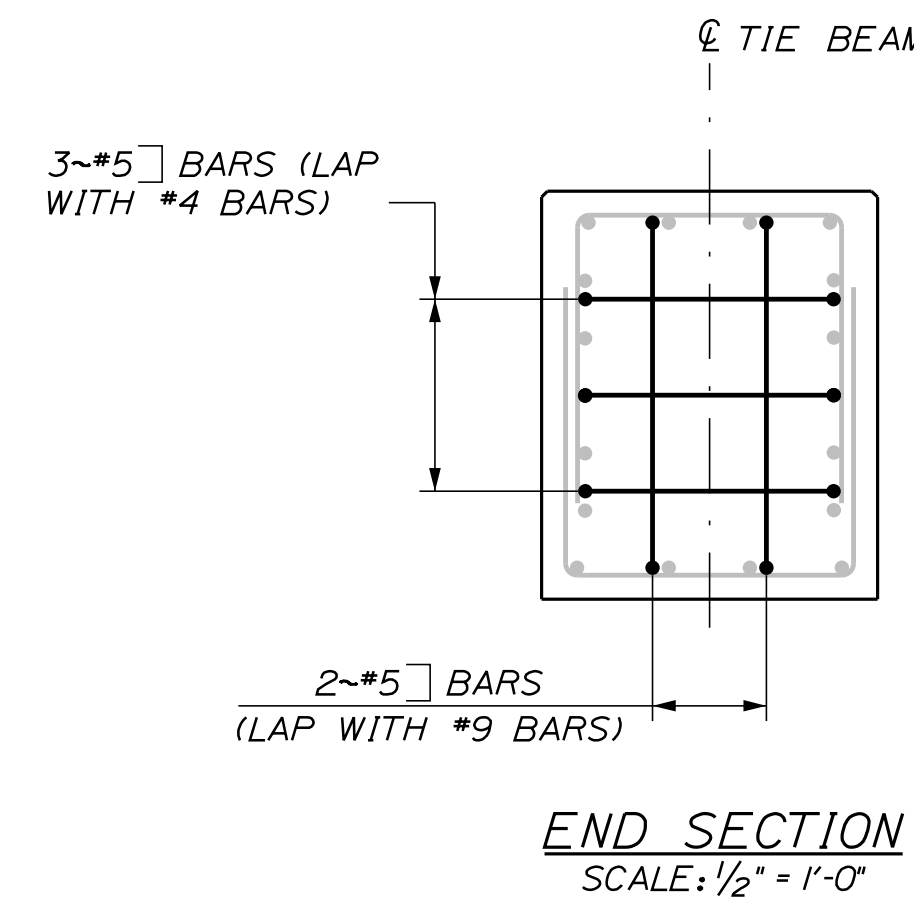
Date: 10/17/2022



DRILLED SHAFT AND TIE BEAM ELEVATION  
SCALE: 1/2" = 1'-0"



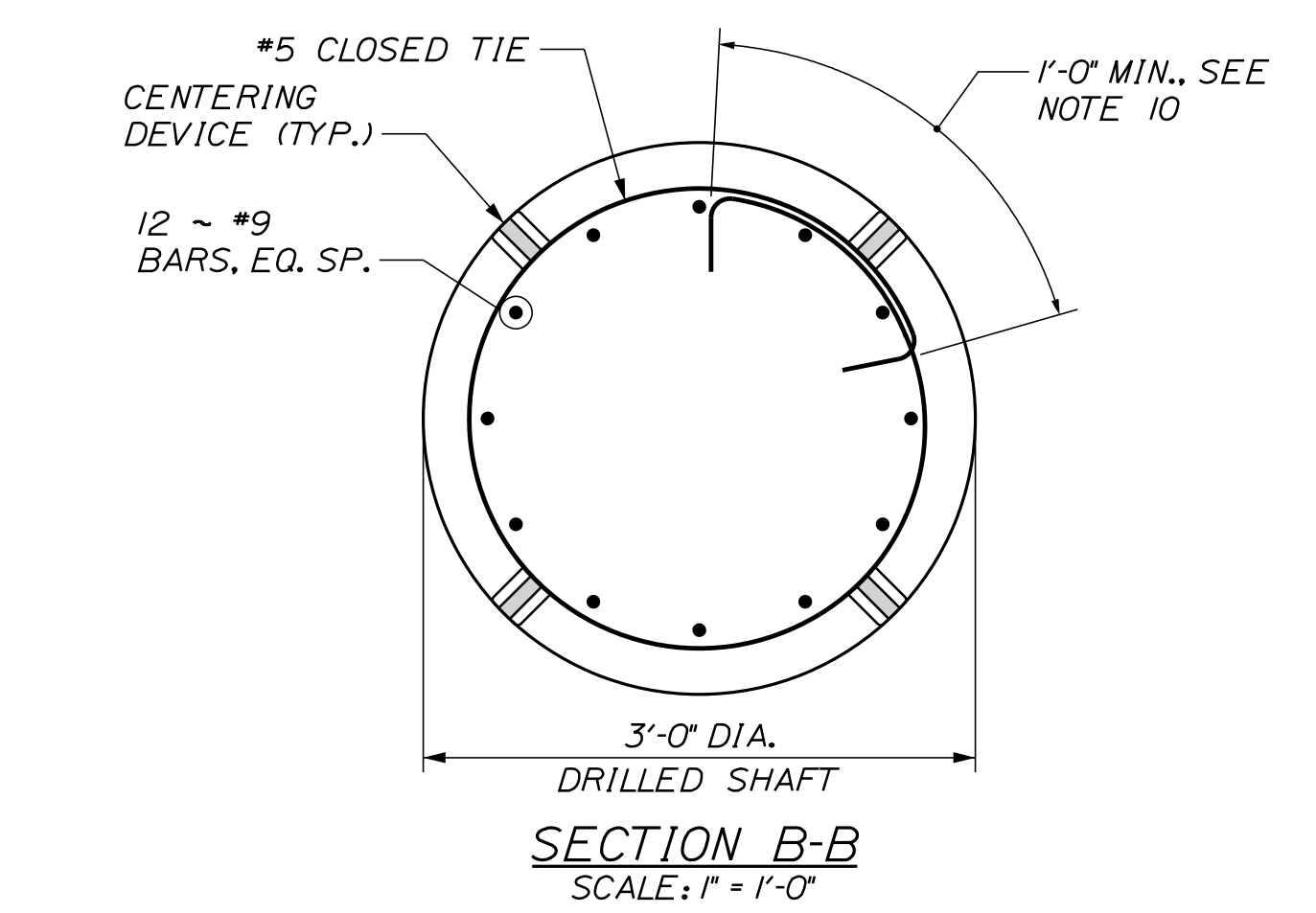
SECTION A-A  
SCALE: 1/2" = 1'-0"



END SECTION  
SCALE: 1/2" = 1'-0"

DRILLED SHAFT AND TIE BEAM NOTES

- SEE OVERHEAD SIGN FOUNDATION DETAILS 2 OF 3 FOR OVERHEAD SIGN STRUCTURE FOUNDATION NOTES.
- ADJUST LONGITUDINAL REINFORCING IN TIE BEAM TO AVOID ANCHOR BOLTS AND SHAFT REINFORCING.
- 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.
- CONTRACTOR SHALL DETERMINE FINAL TOP OF TIE BEAM ELEVATIONS BASED ON 2'-0" MINIMUM TIE BEAM EMBEDMENT SHOWN IN SECTION A-A. 'ELEV. A' IN THE TABLE BELOW HAS BEEN ASSUMED FOR FOUNDATION DESIGN PURPOSES AND MAY BE SUBJECT TO CHANGE PENDING DESIGN OF THE OVERHEAD SIGN SUPPORT TRUSS STRUCTURE. IF THE FINAL TOP OF TIE BEAM ELEVATION IS BELOW 'ELEV. A', THE MINIMUM SHAFT LENGTHS SHOWN IN THE TABLE (MEASURED FROM THE BOTTOM OF THE TIE BEAM) ARE TO BE MAINTAINED.
- CENTERING DEVICES SHALL BE CONSTRUCTED OF AN APPROVED NON-METALLIC DURABLE MATERIAL AND SHALL BE OF ADEQUATE SIZE TO INSURE A MINIMUM OF 3" ANNULAR SPACE BETWEEN THE OUTSIDE OF THE REINFORCEMENT CAGE AND THE SIDES OF THE EXCAVATED HOLE OR INSIDE OF CASING.
- EACH VERTICAL BAR SHALL BE SUPPORTED BY A 3" HIGH BOLSTER OF APPROVED NON-METALLIC DURABLE MATERIAL.
- IF NEEDED, MECHANICAL COUPLERS SHALL BE IN ACCORDANCE WITH SUBSECTION 503.07 AND SHALL BE CONSIDERED INCIDENTAL TO THE SIGN STRUCTURE FOUNDATION.
- WELDING OF THE REINFORCEMENT BARS SHALL NOT BE PERMITTED.
- LENGTHS OF THE VERTICAL REINFORCEMENT MAY VARY AT EACH DRILLED SHAFT FOUNDATION NEAR BEDROCK AND DEPEND ON ACTUAL BEDROCK ELEVATIONS. BAR LENGTHS SHALL BE LONG ENOUGH TO PROVIDE THE MINIMUM TIE BEAM EMBEDMENT DEPTHS OR CLEARANCES TO TOP OF SHAFT SHOWN.
- HOOKS AT THE ENDS OF CLOSED CIRCULAR TIES SHALL ENGAGE A VERTICAL BAR. OVERLAPS AT ENDS OF CIRCULAR TIES SHALL BE STAGGERED ALONG LENGTH OF REBAR CAGE.
- REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER OF 3 INCHES UNLESS OTHERWISE NOTED.



SECTION B-B  
SCALE: 1" = 1'-0"

FOUNDATION LOCATION			FOUNDATION ELEV.			MIN. SHAFT LENGTH OR ROCK SOCKET	MAXIMUM FACTORED TOP OF FOUNDATION LOADS					
GUIDE SIGN	STATION	LOCATION	ELEV. A	ELEV. B	ELEV. C		AXIAL LOAD (K)	HORIZONTAL FORCE (K)		OVERTURNING MOMENT (K-FT)		TORSION (K-FT)
								NORMAL TO STRUCTURE	TRANSVERSE TO STRUCTURE	NORMAL TO STRUCTURE	TRANSVERSE TO STRUCTURE	
SIGN BRIDGE (NB 1)	1670-75	LT.	118.1	93.4	N/A	20 FT	93.2	41.4	8.3	1174.7	234.9	N/A
CANTILEVER (SB 1)**	2728-75	LT.	96.0	75.0	70.0	ROCK SOCKET	12.8	30.1	6.0	750.5	324.2	755.0
CANTILEVER (SB 4)**	1789-00	LT.	124.75	89.75	N/A***	35 FT***	14.5	42.4	8.5	1205.0	423.4	949.2

\*\*SEE OVERHEAD SIGN FOUNDATION DETAILS SHEET 2 OF 3  
\*\*\*IF BEDROCK IS ENCOUNTERED ABOVE EL. 89.75, TOP OF BEDROCK BECOMES EL. B AND A MINIMUM 5 FT ROCK SOCKET SHALL BE CONSTRUCTED SUCH THAT EL. C = EL. B - 5 FT

Filename: ...HIGHWAY.MSTA\...OH\_Signs\_1.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by: Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	LSF	10\22	Checked	EL	10\22
Drawn	LSF	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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THE GOLD STAR MEMORIAL HIGHWAY

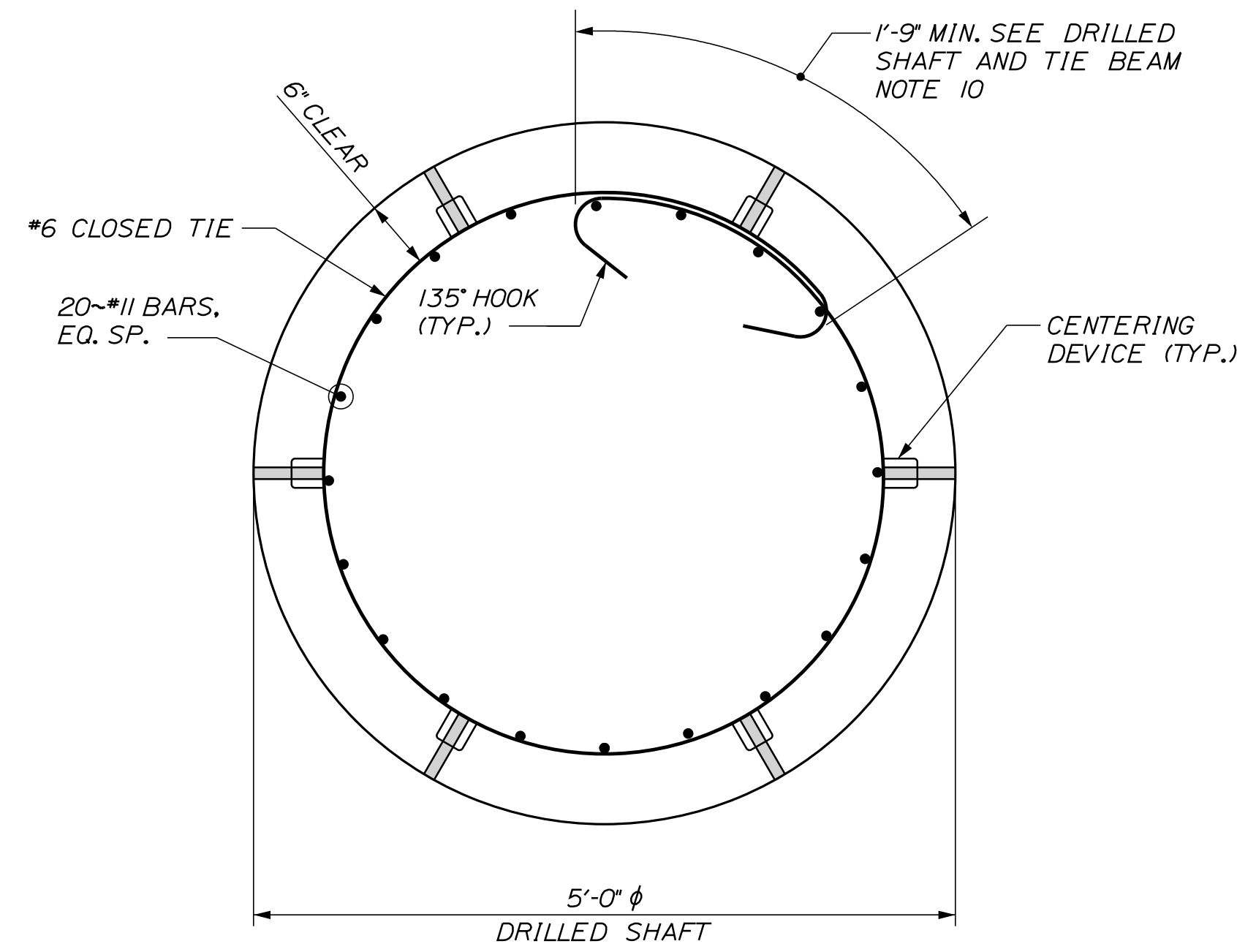
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
OVERHEAD SIGN  
FOUNDATION DETAILS (1 OF 3)

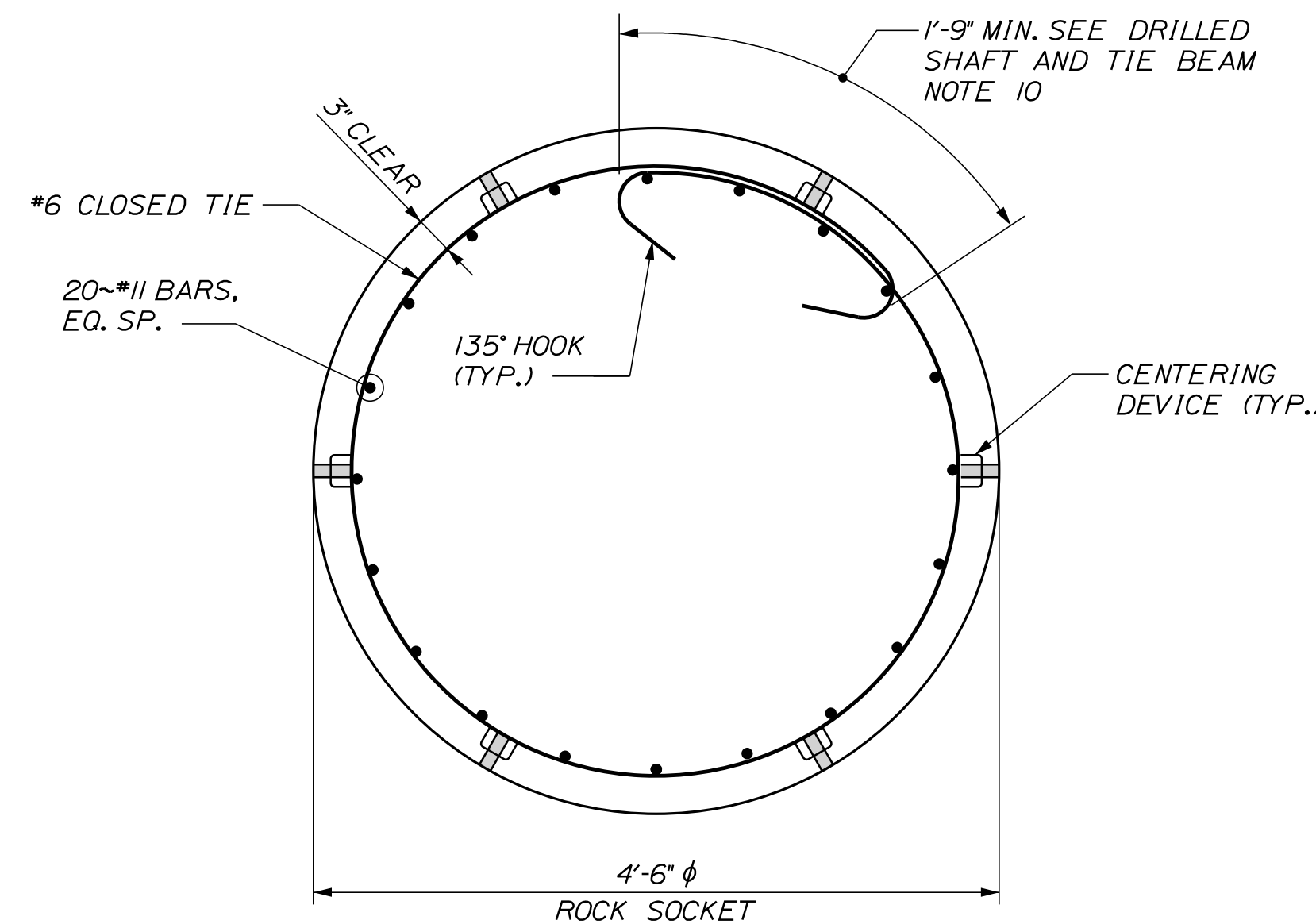
SHEET NUMBER: SS-37  
CONTRACT: 2022.07  
242 OF 735

**OVERHEAD SIGN STRUCTURE FOUNDATION NOTES**

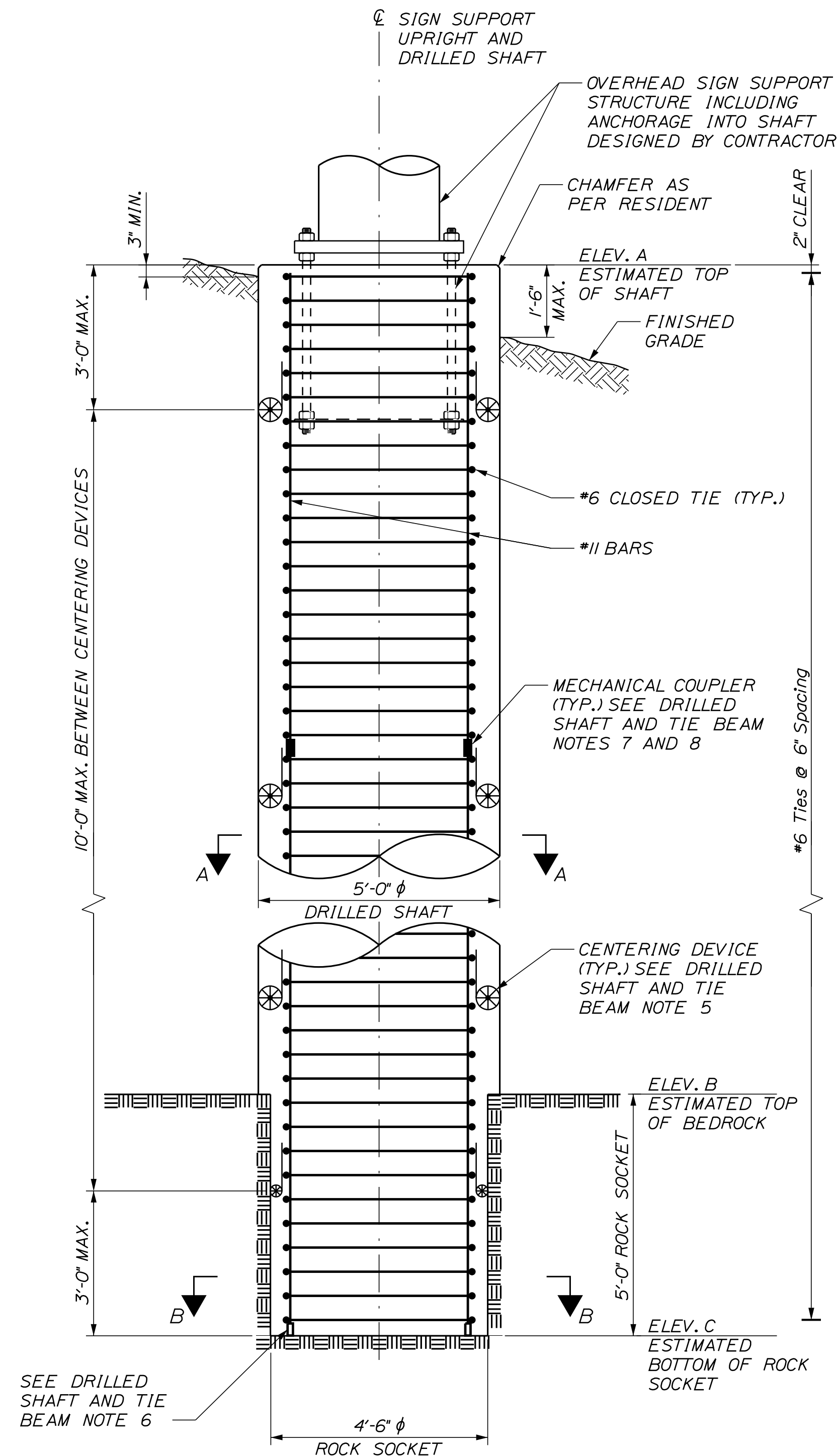
1. ALL FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH SPECIAL PROVISION 645.
2. OVERHEAD SIGN BRIDGES AND THEIR FOUNDATIONS SHALL BE PAID UNDER THE APPROPRIATE 645.12 ITEMS. OVERHEAD CANTILEVER SIGN SUPPORT STRUCTURES AND THEIR FOUNDATIONS SHALL BE PAID UNDER THE APPROPRIATE 645.15 ITEMS.
3. ALL CONCRETE USED FOR OVERHEAD SIGN STRUCTURE FOUNDATIONS (INCLUDING DRILLED SHAFTS, TIE BEAMS, STEMS AND FOOTINGS) SHALL BE CLASS 'AAA' CONCRETE ( $f'_c = 4,500$  PSI) AND SHALL CONFORM TO MTA SUPPLEMENTAL SPECIFICATION 502.
4. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, EPOXY COATED AND SHALL CONFORM TO MAINE DOT STANDARD SPECIFICATION 503. REINFORCEMENT SCHEDULES AND REINFORCING STEEL SHOP DRAWINGS FOR ALL OVERHEAD SIGN STRUCTURE FOUNDATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
5. DESIGN FOR OVERHEAD CANTILEVER AND SIGN BRIDGE TRUSS STRUCTURES INCLUDING ANCHORAGES SHALL BE PROVIDED BY THE CONTRACTOR PER SPECIAL PROVISION 645 AND SHALL BE STAMPED AND SIGNED BY AN ENGINEER LICENSED IN THE STATE OF MAINE. SUBMIT DESIGN CALCULATIONS INCLUDING SUPPORT REACTIONS AT THE TOPS OF THE FOUNDATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL. THE DESIGN BASIC WIND SPEED SHALL BE 129 MPH.
6. REFER TO SIGNING AND STRIPING PLANS AND OVERHEAD SIGN CROSS SECTIONS FOR MOUNTED SIGN TYPES AND STRUCTURE SPANS.
7. CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES, CONFORMING TO MAINE DOT STANDARD SPECIFICATION 515, SHALL BE APPLIED ON ALL EXPOSED CONCRETE PORTIONS OF THE FOUNDATIONS TO A DEPTH OF 12" BELOW GRADE AND SHALL BE INCIDENTAL TO THE SECTION 645 SIGN SUPPORT PAY ITEMS.
8. CONCRETE TIE BEAMS AND SPREAD FOOTING FOUNDATIONS SHALL BE BACKFILLED WITH GRANULAR BORROW (703.19) A MINIMUM OF 18" BEYOND THE PLAN LIMITS OF THE TIE BEAM OR FOOTING.
9. STRUCTURAL AND ROCK EXCAVATION, BACKFILLING, AND COMPACTION SHALL BE IN ACCORDANCE WITH MAINE DOT STANDARD SPECIFICATION 206 AND SHALL BE INCIDENTAL TO THE SECTION 645 SIGN SUPPORT PAY ITEMS.
10. PAYMENT FOR REMOVAL AND RESTORATION OF GRASS DISTURBED BY THE CONSTRUCTION OF THE FOUNDATIONS SHALL BE INCIDENTAL TO THE SECTION 645 SIGN SUPPORT PAY ITEMS.
11. CONTRACTOR SHALL REVIEW THE GEOTECHNICAL ENGINEERING REPORT DATED 5/13/2022 REGARDING EXPECTED SOIL, BEDROCK TYPES, QUALITY, AND STRENGTHS.
12. SEE OVERHEAD SIGN FOUNDATION DETAILS SHEET 1 OF 3 FOR ELEVATIONS AND LOADS FOR THIS DRILLED SHAFT.
13. OVERHEAD SIGN STRUCTURES AND THEIR FOUNDATIONS SHALL BE DESIGNED PER THE AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS, LATEST EDITION.
14. ANCHOR BOLTS SHALL BE SET BY TEMPLATE AND CAST IN FOUNDATION. DRILLING AND GROUTING OF ANCHOR BOLTS SHALL NOT BE PERMITTED.



SECTION A-A  
SCALE: 1" = 1'-0"



SECTION B-B  
SCALE: 1" = 1'-0"



ELEVATION - DRILLED SHAFT FOUNDATION  
FOR OVERHEAD CANTILEVER SIGN  
SCALE: 1/2" = 1'-0"

Date: 10/7/2022

Filename: ... \HIGHWAY \MSTA \OH\_Signs\_2.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
STANTEC CONSULTING SERVICES INC. 2211 CONGRESS STREET SUITE 380 PORTLAND, ME 04102 TEL (207) 887-3448 FAX (207) 883-3376					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	LSF	10\22	Checked	EL	10\22
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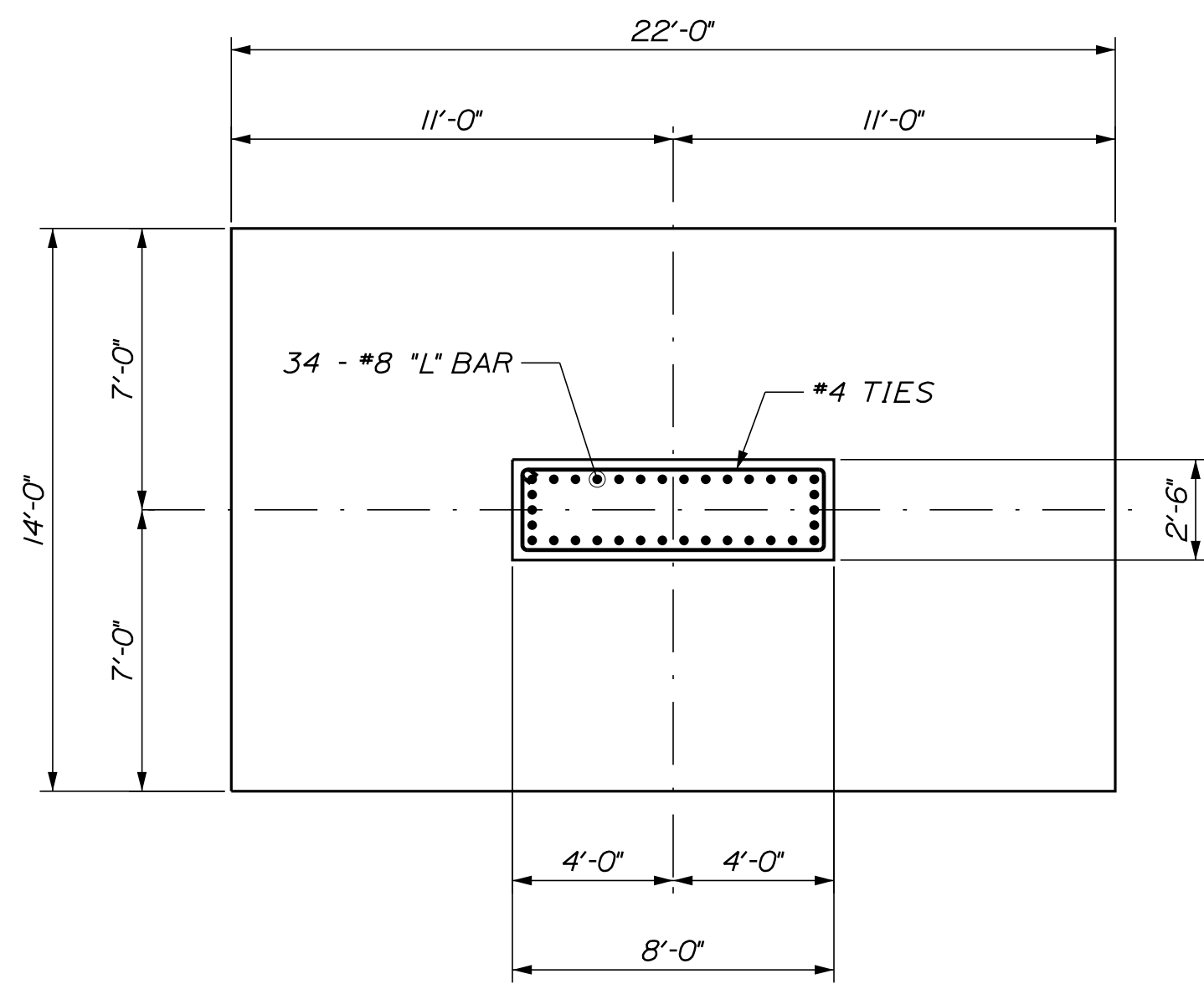
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

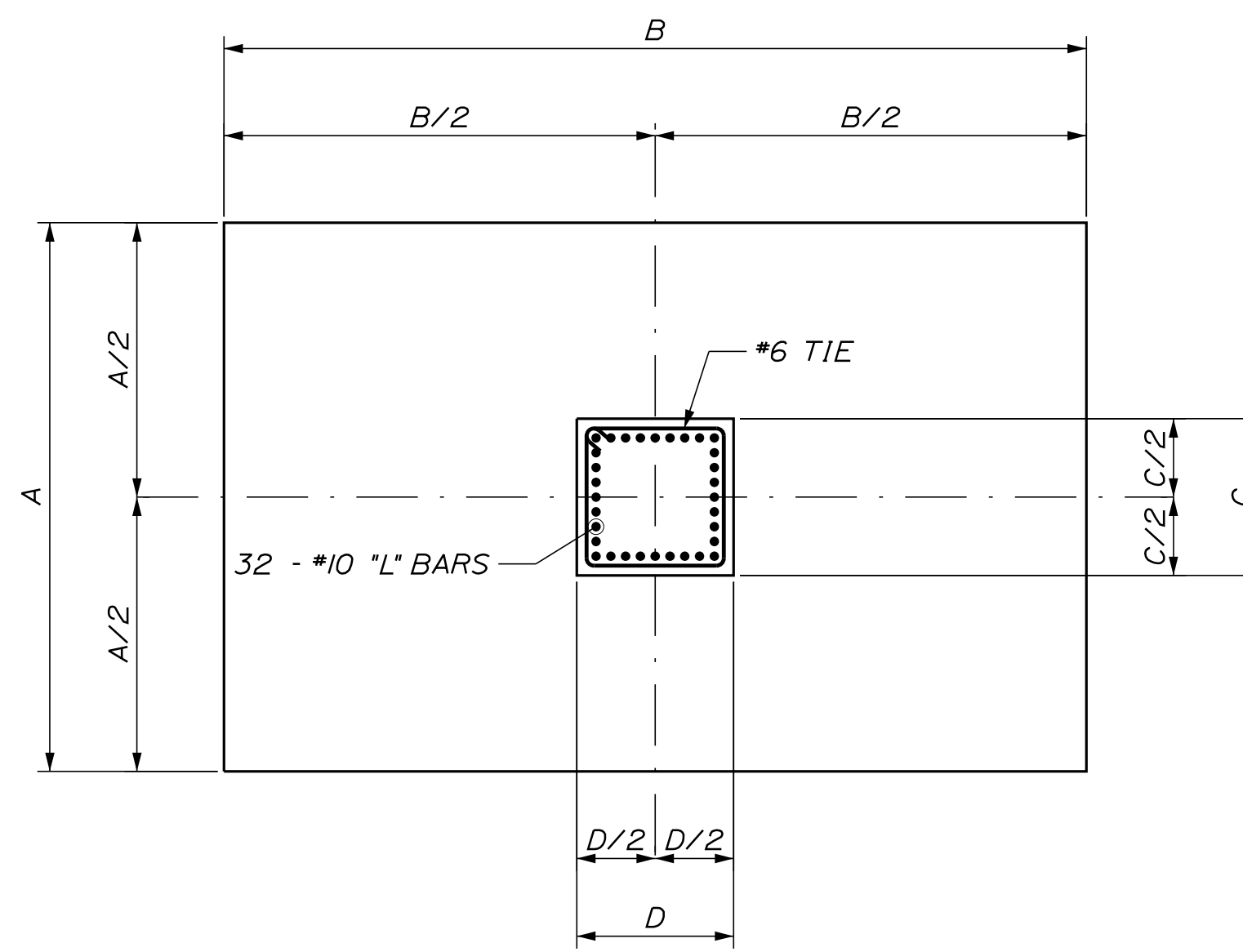
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
OVERHEAD SIGN  
FOUNDATION DETAILS (2 OF 3)

SHEET NUMBER: SS-38  
CONTRACT: 2022.07  
243 OF 735

Date: 10/17/2022



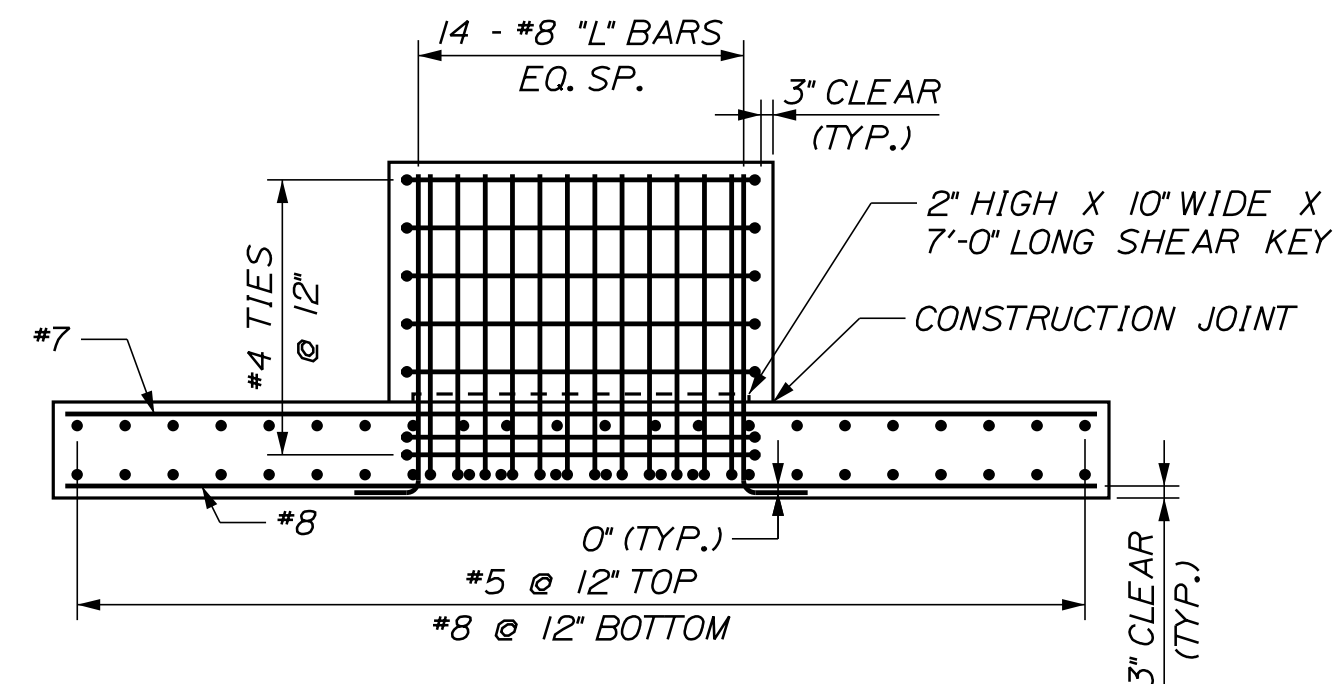
SPREAD FOOTING PLAN - 1670+75 RT  
Scale: 1/4"=1'-0"



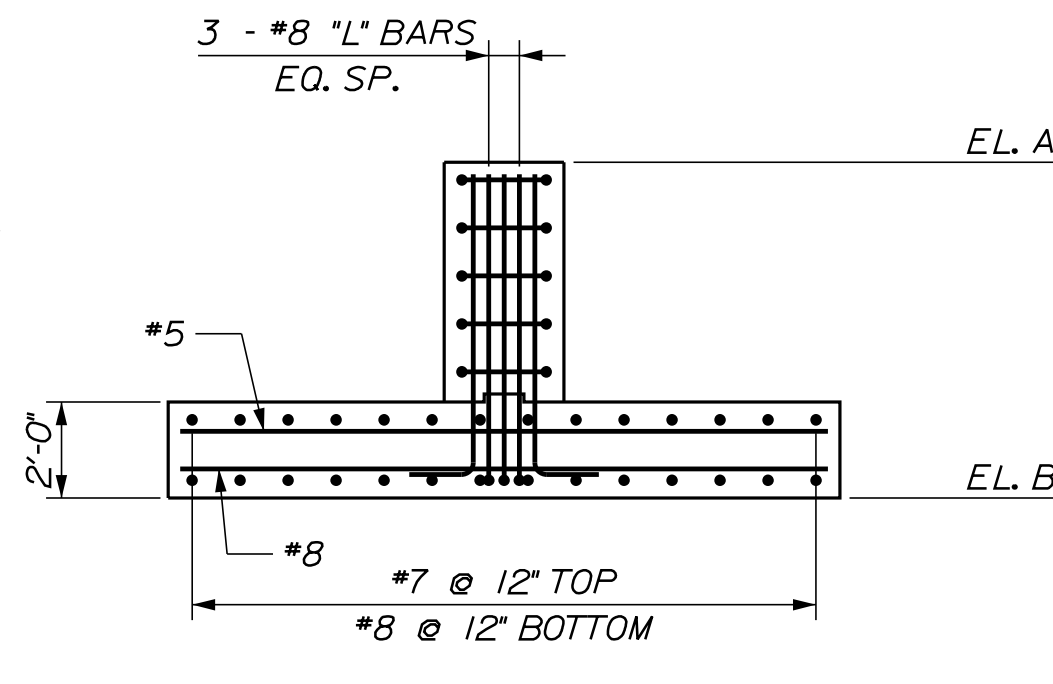
SPREAD FOOTING PLAN - CANTILEVERS  
Scale: 1/4"=1'-0"

SPREAD FOOTING NOTES

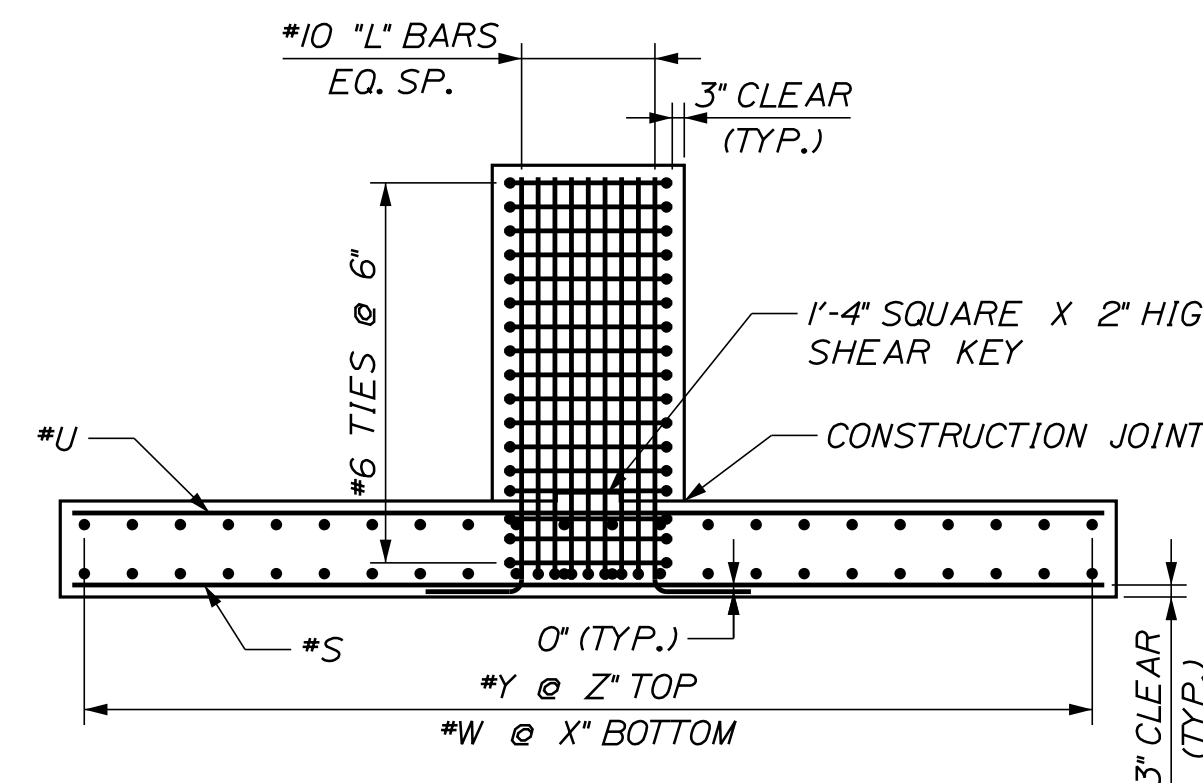
1. SEE OVERHEAD SIGN FOUNDATION DETAILS 2 OF 3 FOR OVERHEAD SIGN NOTES.
2. REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER OF 3 INCHES IN THE STEM AND 3 INCHES COVER IN THE FOOTINGS UNLESS OTHERWISE NOTED.
3. "L" BARS SHALL HAVE STANDARD HOOKS UNLESS NOTED OTHERWISE.
4. SUBGRADE SHALL BE PROOF COMPACTED WITH AT LEAST SIX PASSES OF A LARGE VIBRATORY PLATE COMPACTOR OR TRENCH ROLLER. FOR SILTY SUBGRADE THAT IS NEAR THE GROUNDWATER, THE COMPACTORS SHOULD BE OPERATED IN STATIC MODE. ANY DISTURBED SOIL SHOULD BE REMOVED AND REPLACED WITH COMPACTED GRAVEL BORROW.



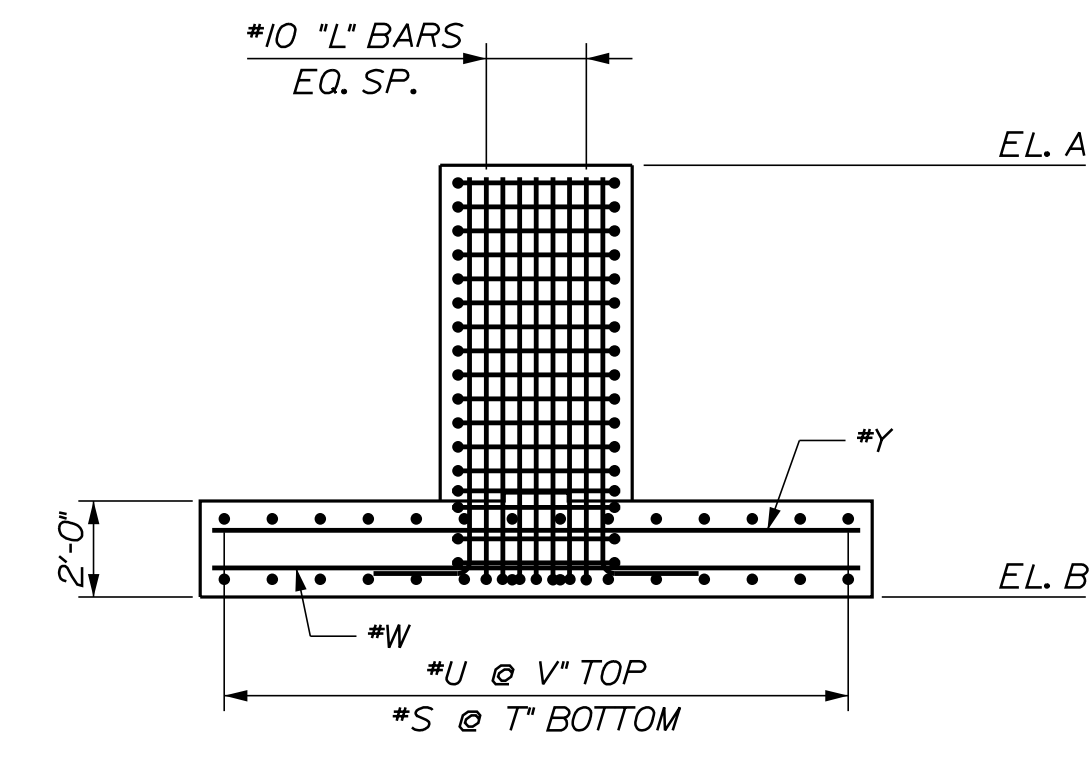
SIDE ELEVATION - 1670+75 RT  
Scale: 1/4"=1'-0"



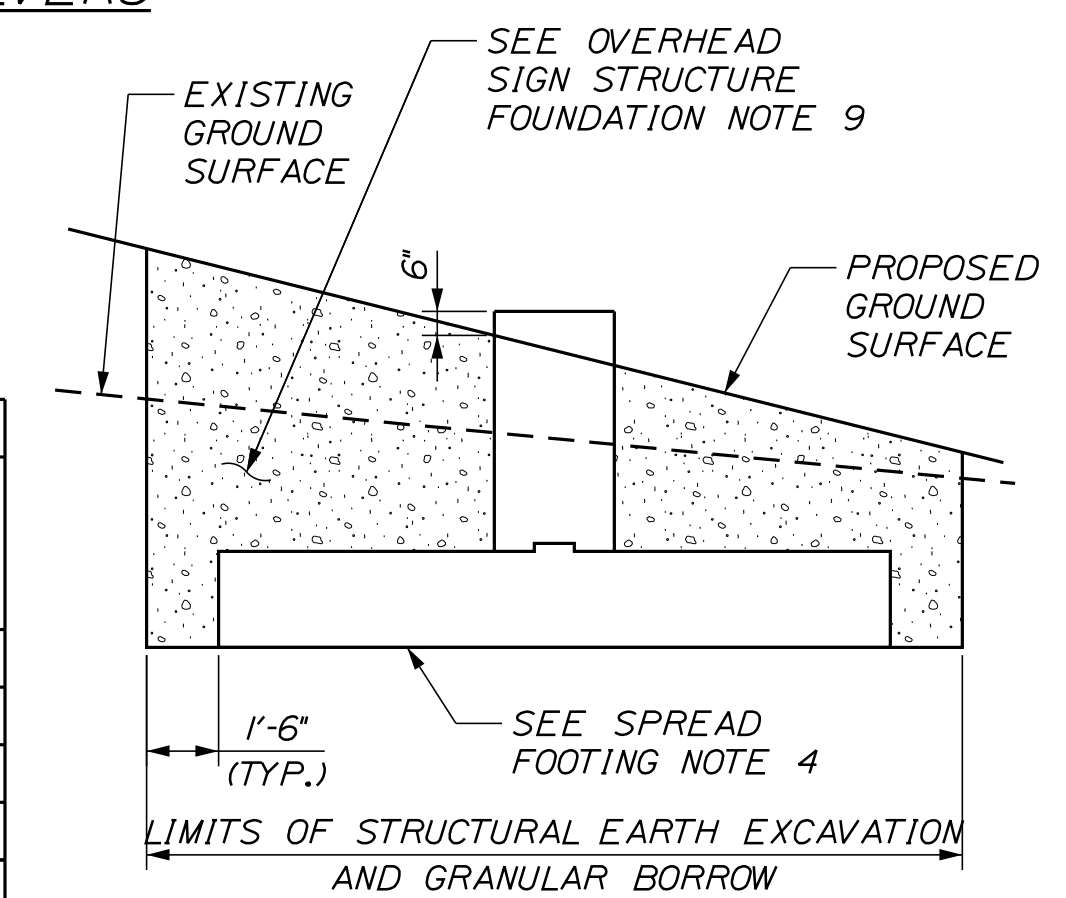
END ELEVATION - 1670+75 RT  
Scale: 1/4"=1'-0"



SIDE ELEVATION - CANTILEVERS  
Scale: 1/4"=1'-0"



END ELEVATION - CANTILEVERS  
Scale: 1/4"=1'-0"



EARTHWORK DETAIL

FOUNDATION LOCATION			FOUNDATION DIMENSIONS						MAXIMUM FACTORED TOP OF FOUNDATION LOADS						FOOTING REBAR								
GUIDE SIGN	STATION	LOCATION	DIM. A (FT)	DIM. B (FT)	DIM. C (FT)	DIM. D (FT)	EL. A	EL. B	AXIAL LOAD (K)	TORSION (K-FT)	HORIZONTAL FORCE (K)		OVERTURNING MOMENT (K-FT)		S	T	U	V	W	X	Y	Z	
											NORMAL TO STRUCTURE	TRANSVERSE TO STRUCTURE	NORMAL TO STRUCTURE	TRANSVERSE TO STRUCTURE									
SIGN BRIDGE (NB 1)	1670+75	RT.	N/A	N/A	N/A	N/A	115.40	108.50	10.9	N/A	32.3	6.5	910.6	182.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CANTILEVER (NB 1)	1718+50	RT.	14	24	4	4	109.42	102.25	14.4	1067.5	40.2	8.0	1131.4	432.5	#8	6"	#8	12"	#6	12"	#5	12"	
CANTILEVER (NB 2)	1731+30	RT.	14	22	4	4	99.15	92.50	13.9	969.0	36.9	7.4	1012.8	395.9	#7	6"	#8	12"	#7	12"	#5	12"	
CANTILEVER (SB 2)	2740+50	LT.	16	30	4	4	98.01	89.25	12.5	662.8	32.6	6.5	802.3	303.1	#7	6"	#8	6"	#6	12"	#6	12"	
CANTILEVER (SB 3)	2763+00	LT.	16	30	4.5	4.5	118.28	112.50	15.8	1207.6	44.3	8.9	1299.6	510.7	#8	6"	#7	6"	#6	12"	#5	12"	

Filename: ...HIGHWAY.MSTA\...OH\_Signs\_3.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

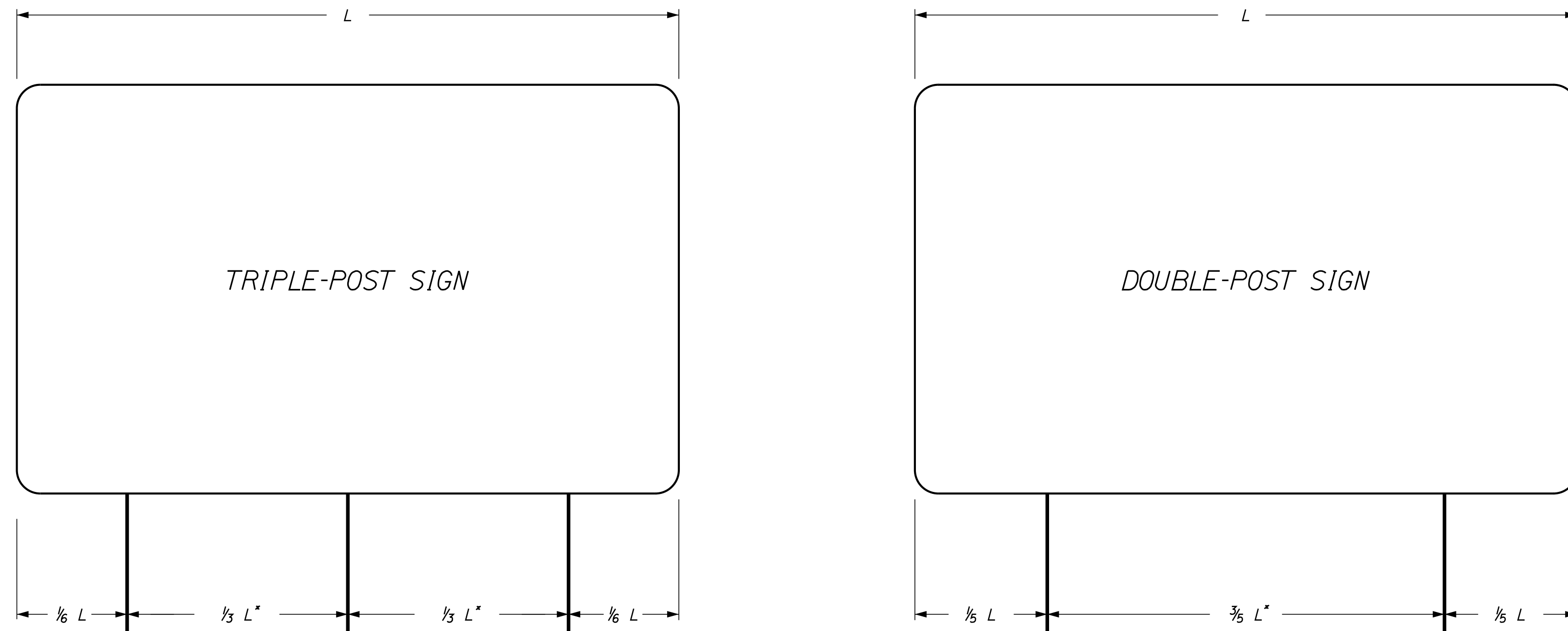
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
OVERHEAD SIGN  
FOUNDATION DETAILS (3 OF 3)

SHEET NUMBER: SS-39  
244 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

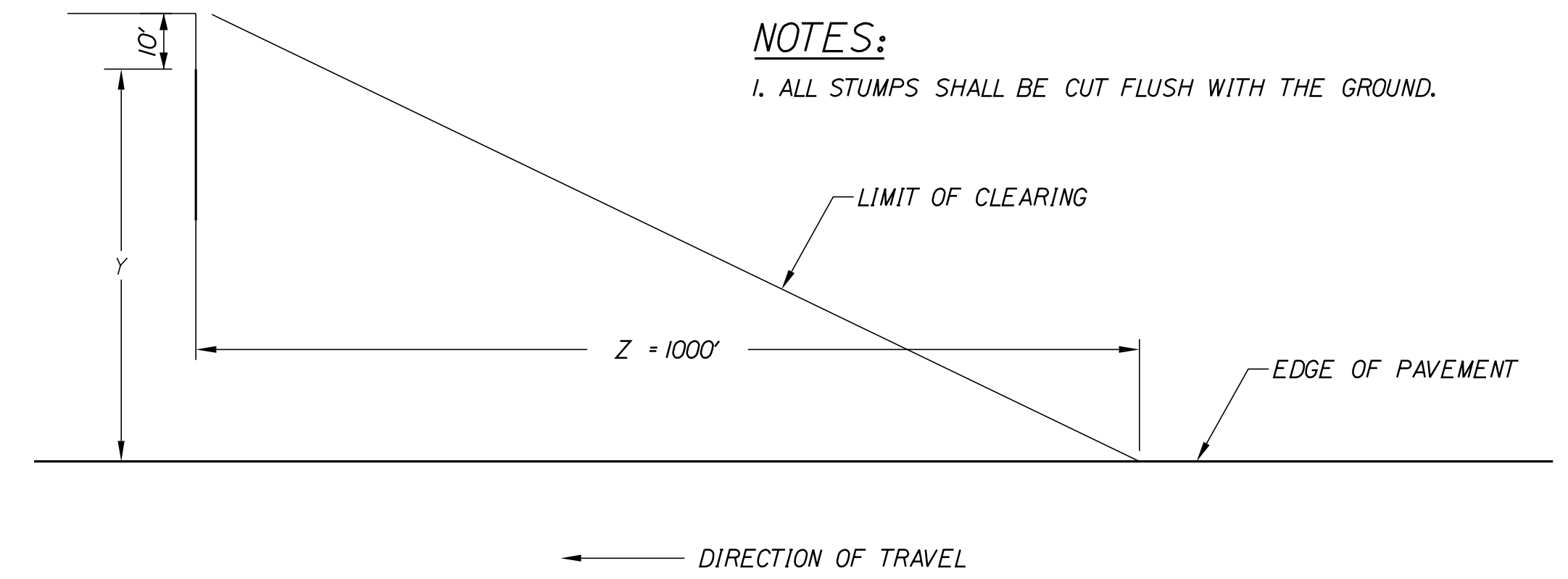


\* - A MINIMUM 7 FEET REQUIRED WHEN INSTALLED ON BREAKAWAY DEVICES

**POLE SPACING DETAIL**  
N.T.S.

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					12 FEET TO SIGN CENTER
		$4 < A \leq 10 \text{ FT}^2$		WOOD POST 6'X6'					
18"	6'	$10 < A \leq 16 \text{ FT}^2$	W=4'-0" MAX. BUT INCLUDES 5'-0" YIELD SIGN	W6X9 (SEE NOTE 5)	12'X12'X1" 41 LBS.	A36	1" $\phi$ X 3'-0"	12"	
18" (24")	6'	$16 < A \leq 25 \text{ FT}^2$	W=5'-0" MAX	W6X15 (WITH BREAKAWAY)	12'X12'X1" 41 LBS.	A36	1" $\phi$ 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" $\phi$ 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 <sup>2</sup> /POST		W8X18	14'X14'X1" 55 LBS.	A36	1-1/4" $\phi$ X 3'-6"	14"	20 FEET TO SIGN CENTER
24" (30")	7'	60-85 FT <sup>2</sup> /POST		W10X22 (WITH BREAKAWAY)	12'X17'X1-1/4" 72 LBS.	A36	1-1/4" $\phi$ X 3'-6"	15"	
30" (36")	11"	85-110 FT <sup>2</sup> /POST		W12X26 (WITH BREAKAWAY)	13'X19'X1-1/4" 87 LBS.	A36	1-1/2" $\phi$ X 4'-0"	17"	
30" (36")	11"	110-135 FT <sup>2</sup> /POST		W14X30 (WITH BREAKAWAY)	14'X21'X1-1/4" 104 LBS.	A36	1-1/2" $\phi$ X 4'-0"	19"	



**NOTES:**  
1. ALL STUMPS SHALL BE CUT FLUSH WITH THE GROUND.

WHERE:

X = WIDTH OF SIGN + 10'  
Y = OFFSET TO EDGE OF SIGN FROM EDGE OF PAVEMENT  
Z = DISTANCE FROM FACE OF SIGN TO A POINT ON THE EDGE OF PAVEMENT 1000' BACK

**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.
- SIGN POSTS FOR THE SAME SIGN SHALL NOT BE INSTALLED ON BOTH SIDES OF A DITCH UNLESS DIRECTED BY THE RESIDENT.
- REGULATORY, WARNING AND ROUTE MARKER ASSEMBLY SIGNS OF 16 SF OR LESS AND NOT ON THE MAINE TURNPIKE MAINLINE SHALL USE A 6' X 6' WOOD POST. WOOD POSTS SHALL BE INCIDENTAL TO THE SIGN ITEM.
- REGULATORY, WARNING AND ROUTE MARKER ASSEMBLY SIGNS OVER 60' IN WIDTH SHALL BE FABRICATED AND PAID FOR UNDER 645.251 - ROADSIDE GUIDE SIGN, TYPE 1 AS INDICATED IN THE SIGN SUMMARY TABLES.
- THE RESIDENT SHALL APPROVE THE REMOVAL OF EXISTING SIGNS PRIOR TO REMOVAL TO VERIFY IF THEY ARE NEEDED OR NOT.
- EXISTING WRONG WAY AND DO NOT ENTER SIGNS SHALL BE REMOVED ONLY WHEN ACCESS IS BLOCKED TO THAT ROADWAY.
- EXISTING SIGNS TO BE REMOVED SHALL BE STACKED ON SITE FOR USE DURING CONSTRUCTION IF APPLICABLE.
- ALL SIGNS SHALL BE MANUFACTURED WITH DIRECT APPLIED OR DIGITALLY PRINTED LETTER, NUMERALS, SYMBOLS, AND BORDERS. SEE SPECIAL PROVISIONS 719. SCREEN PRINTED SIGNS WILL NOT BE PERMITTED.

**BREAKAWAY NOTES**

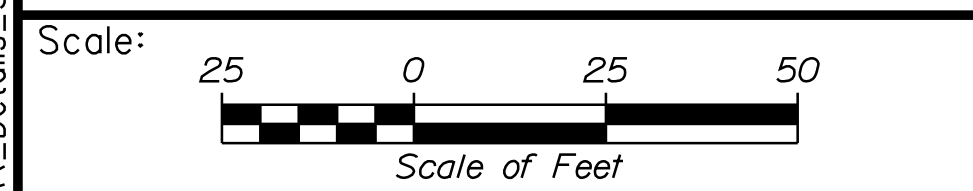
- ON 6'X6' WOOD POSTS, DRILL 3/4" DIAMETER HOLES AT RIGHT ANGLES TO ONE ANOTHER 4 INCHES ABOVE GROUND LEVEL TO MEET BREAKAWAY STANDARDS.
- ON BREAKAWAY SUPPORTS, THE HINGE SHOULD BE A MINIMUM OF 7 FEET ABOVE THE FOUNDATION. NO PERMANENT SUPPLEMENTARY SIGNS SHALL BE ATTACHED BELOW THE HINGE. SIGN SHALL BE MOUNTED ABOVE HINGE.
- DIAMETER OF THE FOUNDATION SHALL BE INCREASED IF NEEDED TO LOCATE BREAK-AWAY DEVICE ANCHOR BOLTS WITHIN THE FOUNDATION REINFORCING. ANY NECESSARY INCREASE IN SIZE SHOULD BE CONSIDERED INCIDENTAL TO THE ORIGINAL CONCRETE FOUNDATION SIZE SPECIFIED ON THE PLANS.

**REMOVE AND RESET GUIDE SIGN NOTES**

- EXISTING SIGN POST LENGTHS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR IF THE POSTS ARE TO BE REUSED.
- PROPOSED POST LENGTHS ARE MEASURED FROM THE TOP OF THE FOUNDATION TO THE TOP OF SIGN AND ARE APPROXIMATE. FINAL POST LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR ONCE FOUNDATIONS ARE PLACED.
- EXISTING SIGN SIZES ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR AGAINST THE LISTED POST SIZING.

**CLEARING DETAIL FOR MAINLINE SIGN INSTALLATION**  
N.T.S.

Filename: ...MSTA\_Details\_Signing.dgn



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

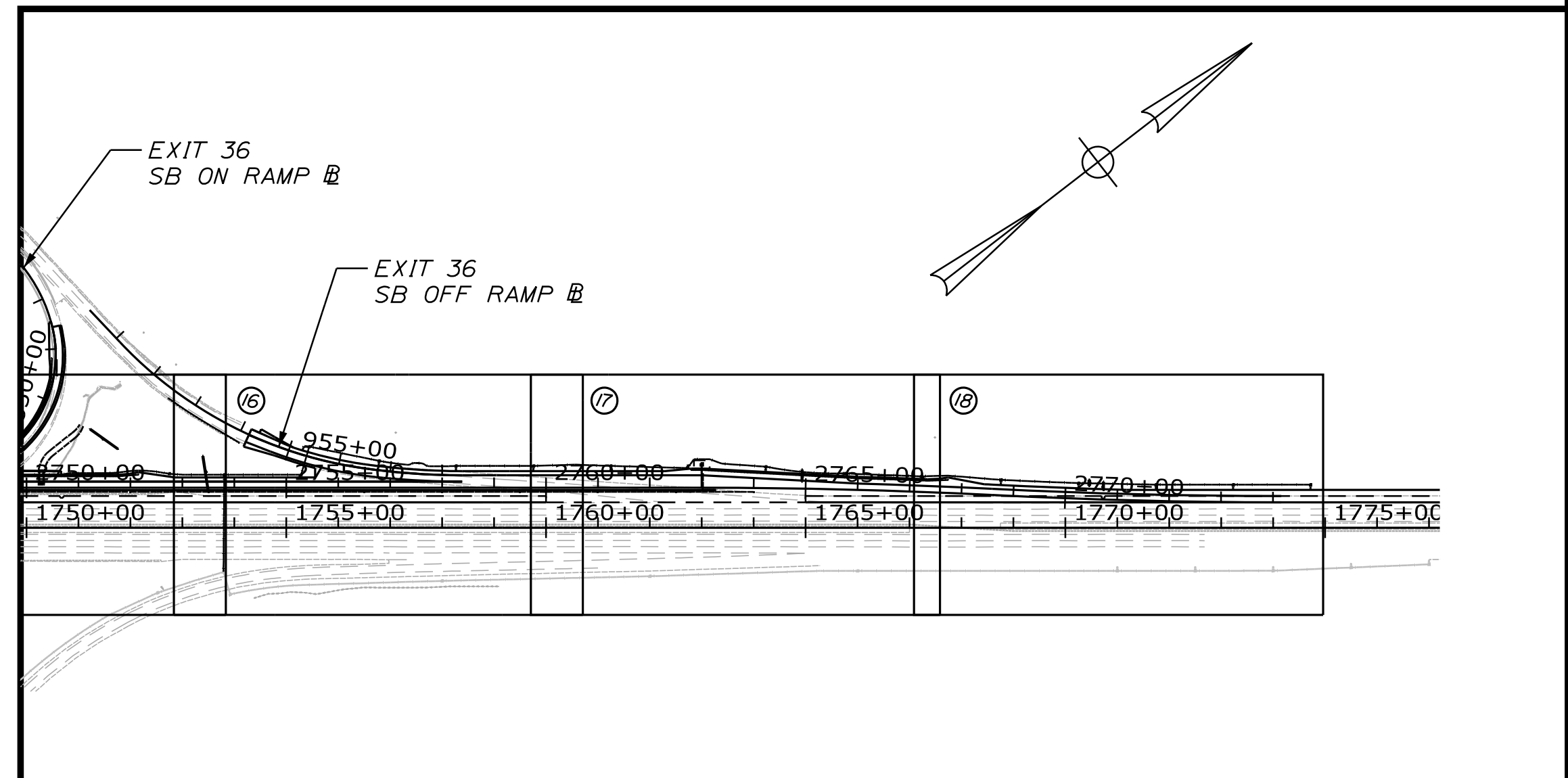
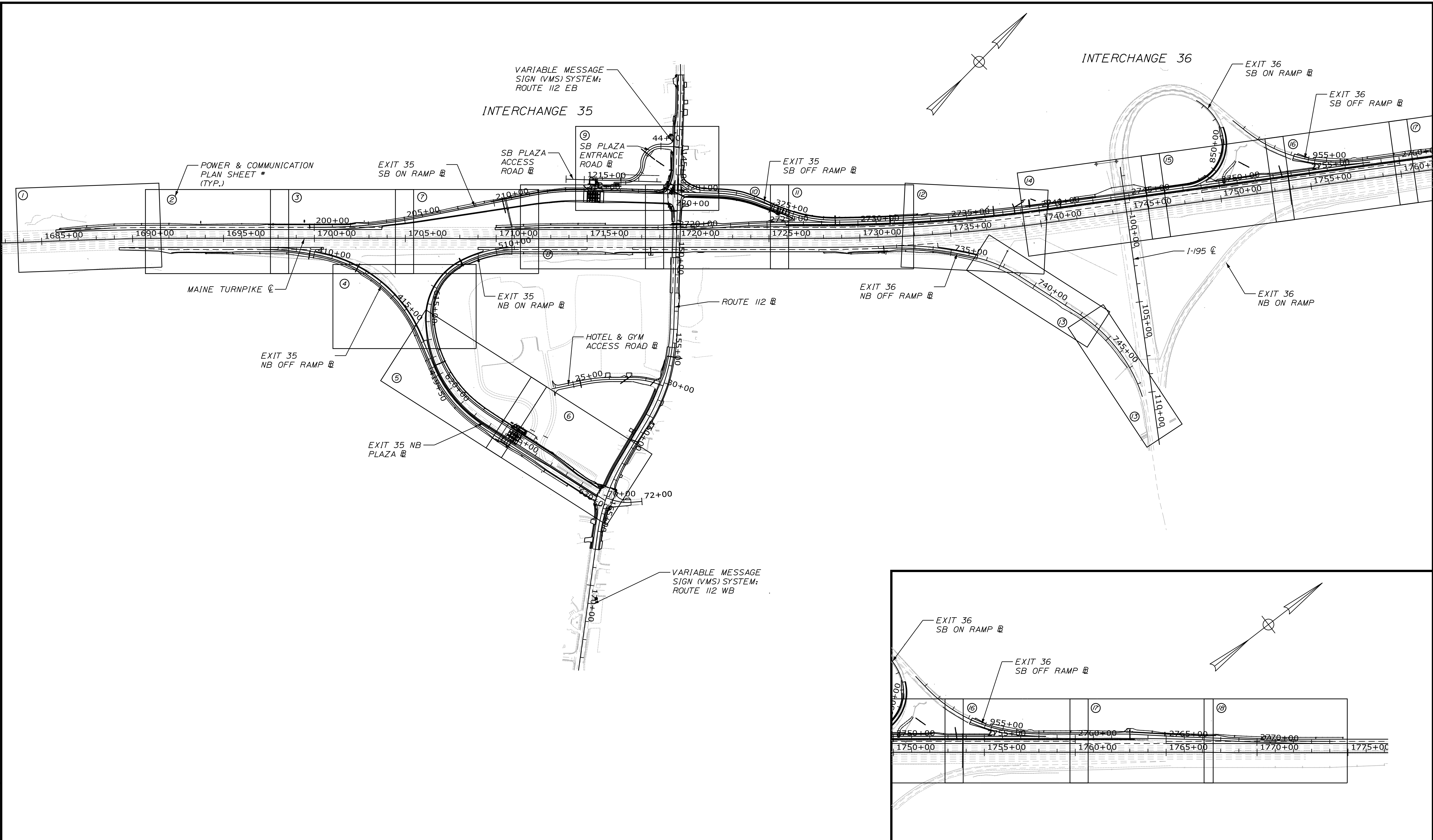
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35& 36)

**SIGNING DETAILS**

SHEET NUMBER: SS-40  
CONTRACT: 2022.07  
245 OF 735

Date: 10/17/2022

Filename: ...MSTA\_Lighting\_Index\_Sheet.dgn



Scale: 250 0 250 500  
Scale of Feet

No.	Revision	By	Date

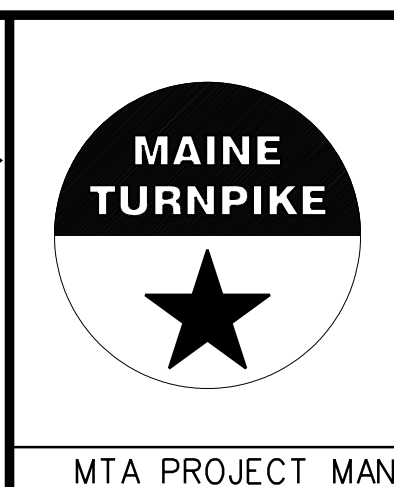
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CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	Checked	By	Date
Designed	PLP	10\22	Checked	LEM	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

POWER AND COMMUNICATION INDEX PLAN

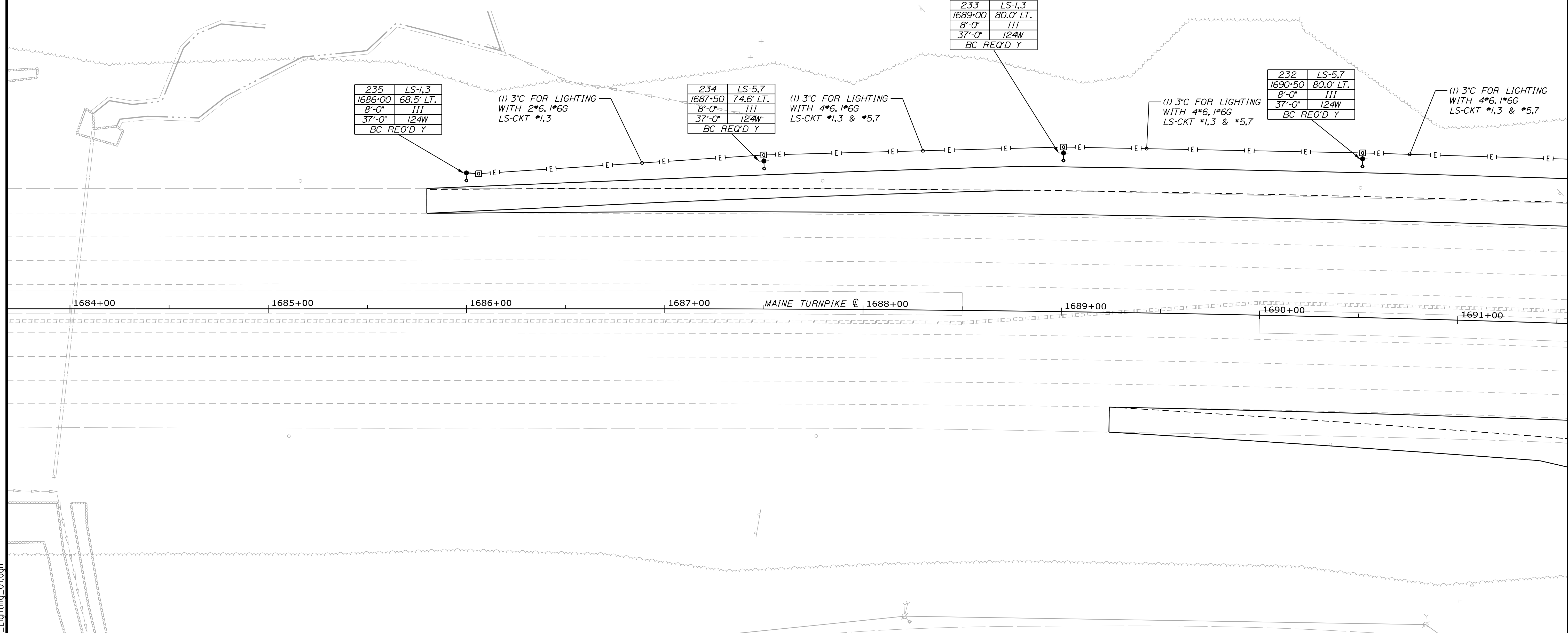
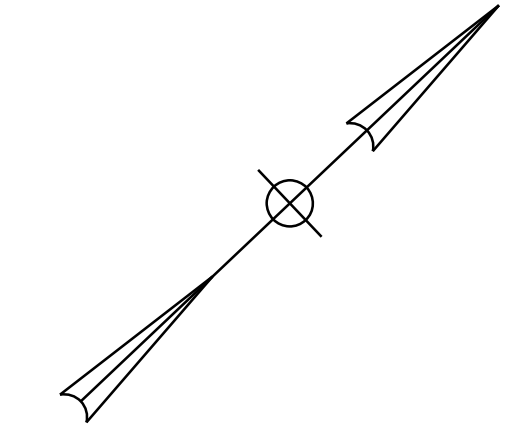
SHEET NUMBER: LP-01  
CONTRACT: 2022.07  
246 OF 735

Date: 10/17/2022

**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x12")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x12")
- PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION XX+XX	OFFSET XX' LT.
ARM LENGTH 8'-0"	DISTRIBUTION III
POLE HEIGHT XX'-X"	LUMINAIRE WATTAGE 177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N BC REQ'D Y	



235	LS-1,3
1686+00	68.5' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

(1) 3" C FOR LIGHTING  
WITH 2\*6, 1\*6G  
LS-CKT #1,3

234	LS-5,7
1687+50	74.6' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

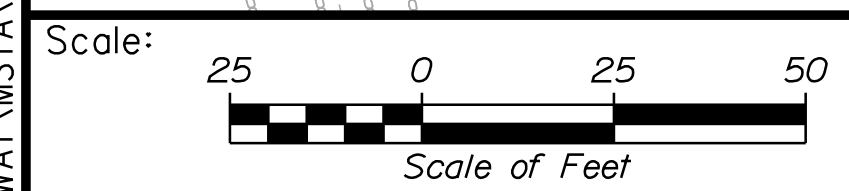
(1) 3" C FOR LIGHTING  
WITH 4\*6, 1\*6G  
LS-CKT #1,3 & #5,7

233	LS-1,3
1689+00	80.0' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

(1) 3" C FOR LIGHTING  
WITH 4\*6, 1\*6G  
LS-CKT #1,3 & #5,7

232	LS-5,7
1690+50	80.0' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

(1) 3" C FOR LIGHTING  
WITH 4\*6, 1\*6G  
LS-CKT #1,3 & #5,7



Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date	By	Date	
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
POWER AND COMMUNICATION PLAN 1

SHEET NUMBER: LP-02  
247 OF 735

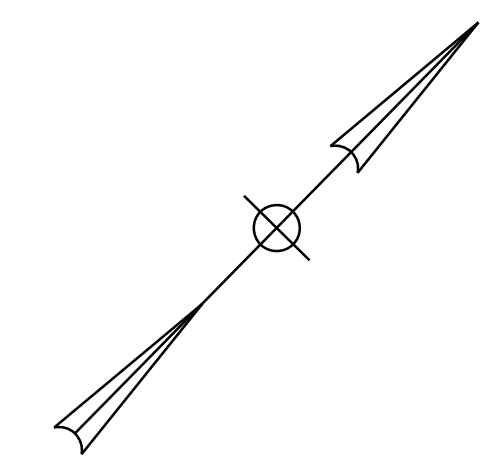
CONTRACT: 2022.07

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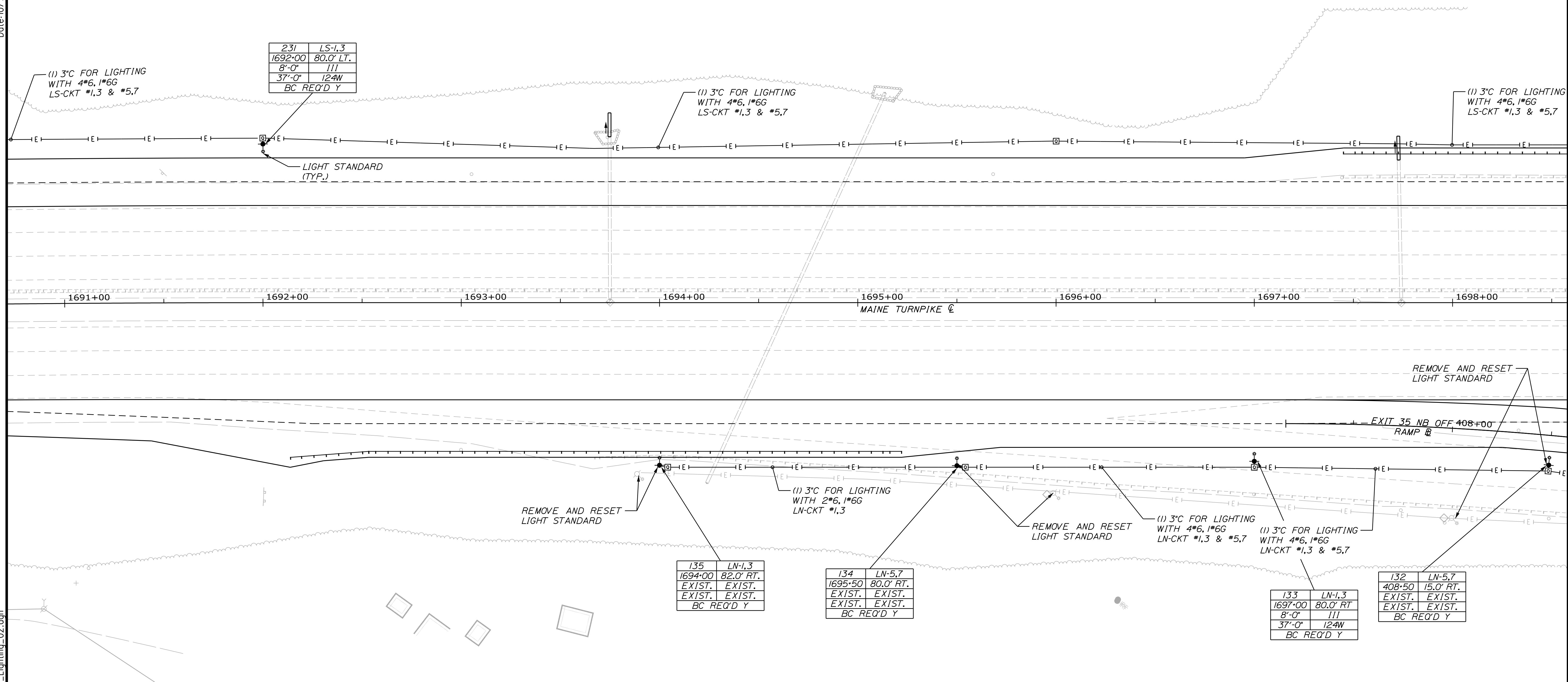
**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x12")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x12")
- PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION	OFFSET
XX'XX	XX' LT.
ARM LENGTH	DISTRIBUTION
8'-0"	III
POLE HEIGHT	LUMINAIRE WATTAGE
XX'-X"	177 W
BREAKAWAY COUPLING (BC)	
REQUIRED Y/N	
BC REQ'D Y	



Date: 10/17/2022



Filename: ... \HIGHWAY\MSTA\Lighting\_02.dgn

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

POWER AND COMMUNICATION PLAN 2

SHEET NUMBER: LP-03  
248 OF 735

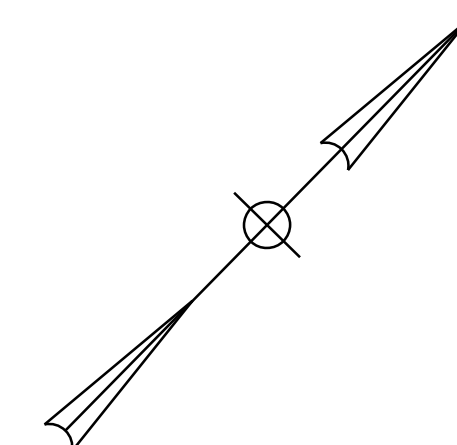
CONTRACT: 2022.07



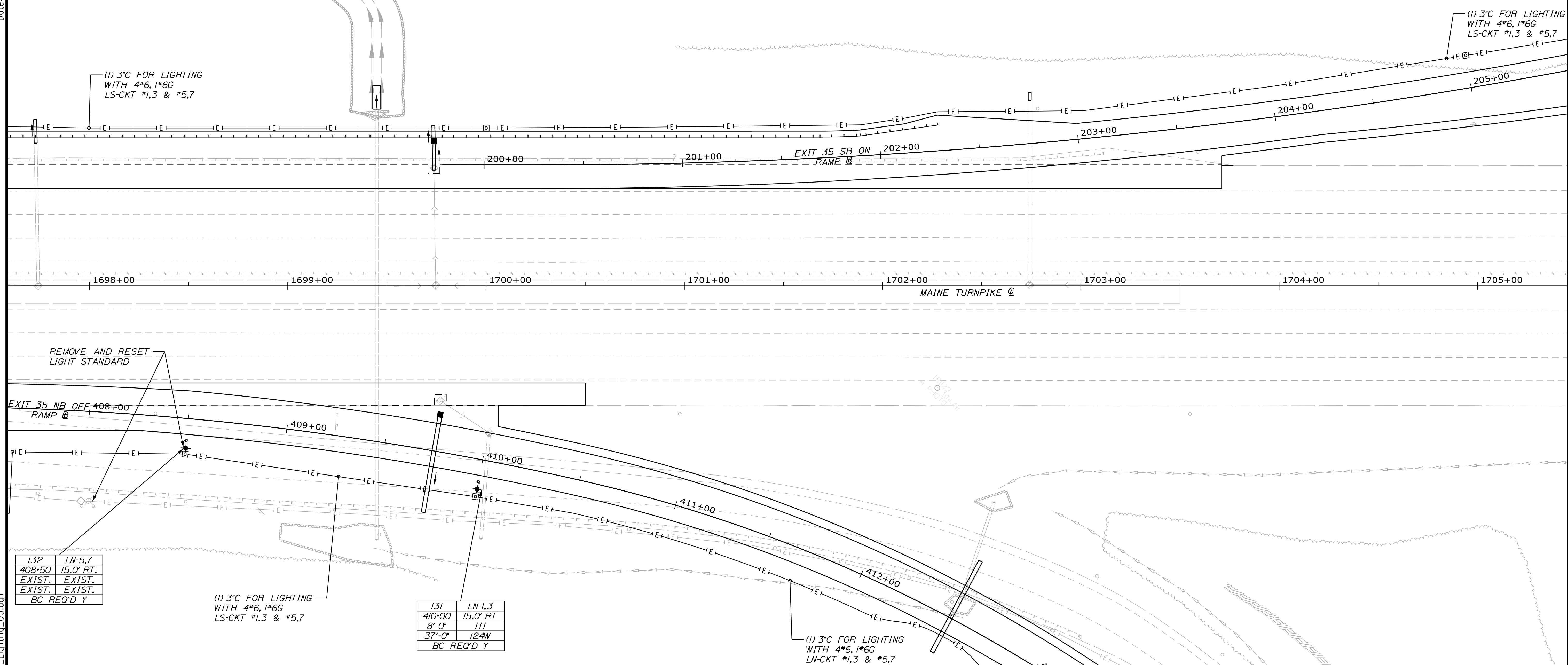
**LEGEND**

- ☐ QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"X24")  
SIGNAL COMMUNICATIONS - (18"X11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"X11")
- ⬤ PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- EP— PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- E— BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- OTH— COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C— COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION	OFFSET
XX-XX	XX' LT.
ARM LENGTH	DISTRIBUTION
8'-0"	III
POLE HEIGHT	LUMINAIRE WATTAGE
XX'-X"	177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N BC REQ'D Y	



Date: 10/17/2022

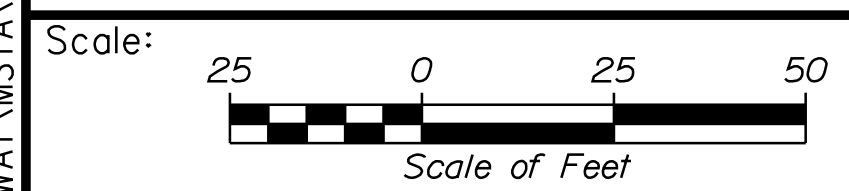


132	LN-5,7
408+50	15.0' RT.
EXIST.	EXIST.
EXIST.	EXIST.
BC REQ'D Y	

(1) 3" C FOR LIGHTING  
WITH 4\*6, 1\*6G  
LS-CKT #1,3 & #5,7

131	LN-1,3
410+00	15.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

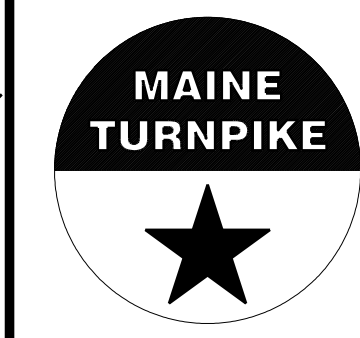
(1) 3" C FOR LIGHTING  
WITH 4\*6, 1\*6G  
LN-CKT #1,3 & #5,7



Designed by:



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2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
POWER AND COMMUNICATION PLAN 3**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

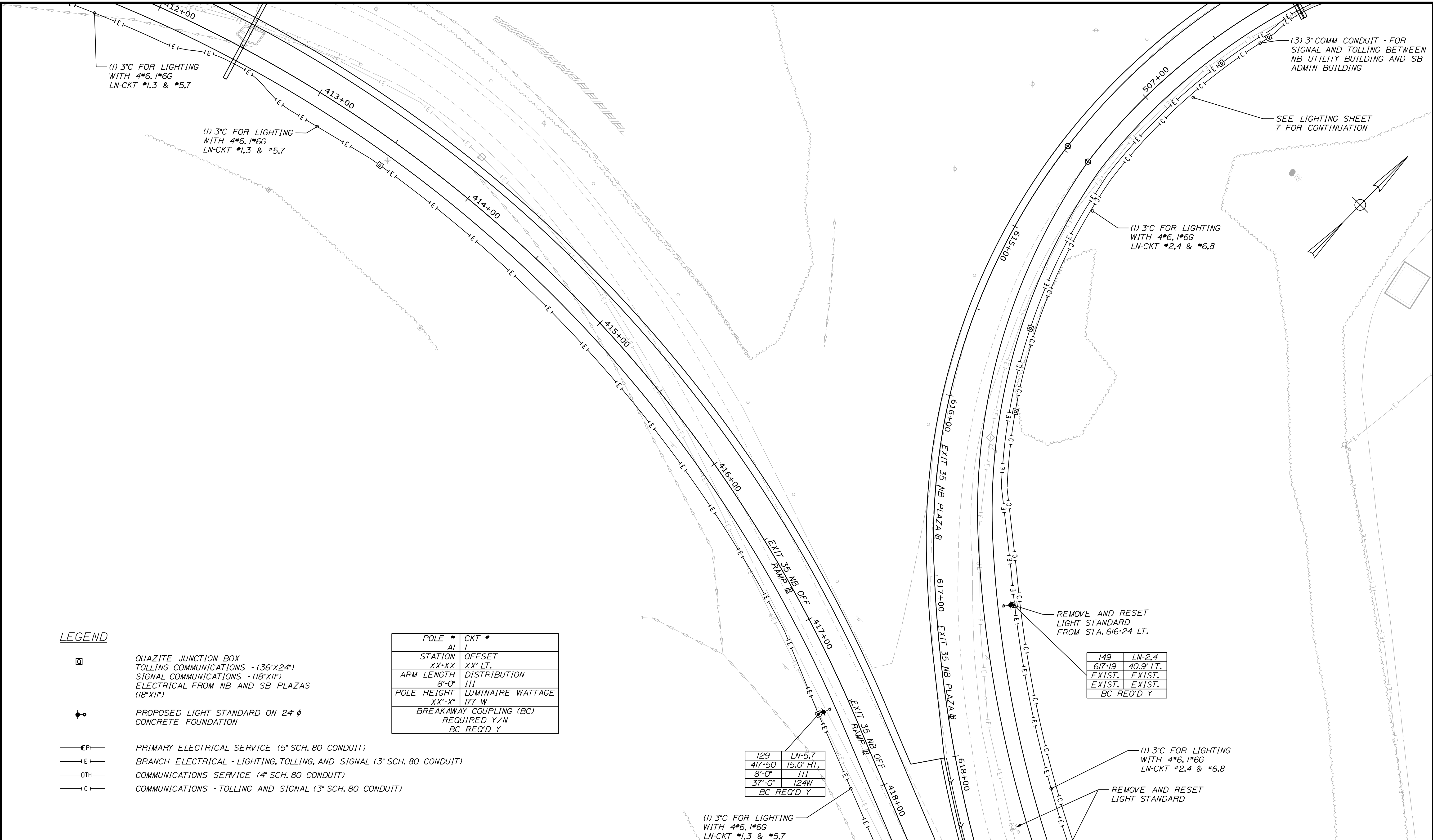
CONTRACT: 2022.07

SHEET NUMBER: LP-04  
249 OF 735

Filename: ...HIGHWAY.MSTA...Lighting\_03.dgn

Date: 10/17/2022

Filename: ...HIGHWAY.MSTA...Lighting\_04.dgn



**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"X24")  
SIGNAL COMMUNICATIONS - (18"X12")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"X12")
- PROPOSED LIGHT STANDARD ON 24" Ø  
CONCRETE FOUNDATION
- PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION	OFFSET
XX-XX	XX' LT.
ARM LENGTH	DISTRIBUTION
8'-0"	III
POLE HEIGHT	LUMINAIRE WATTAGE
XX'-X"	177 W
BREAKAWAY COUPLING (BC)	
REQUIRED Y/N	
BC REQ'D Y	

129	LN-5.7
417-50	15.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

149	LN-2.4
617-19	40.9' LT.
EXIST.	EXIST.
EXIST.	EXIST.
BC REQ'D Y	

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

By	Date	By	Date
Designed	MRC 10\22	Checked	PJV 10\22
Drawn	CHL 10\22	In Charge of	LEM 10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)


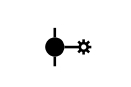
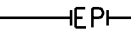
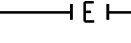
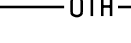
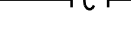
POWER AND COMMUNICATION PLAN 4

SHEET NUMBER: LP-05  
250 OF 735

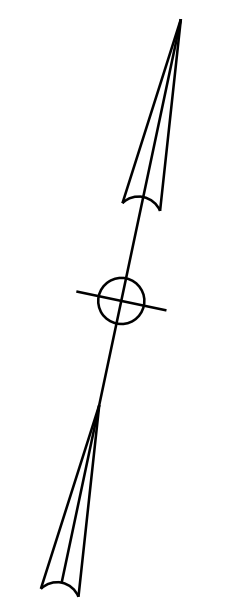
CONTRACT: 2022.07

Date: 10/7/2022  
Filename: ...HIGHWAY.MSTA...Lighting\_05.dgn

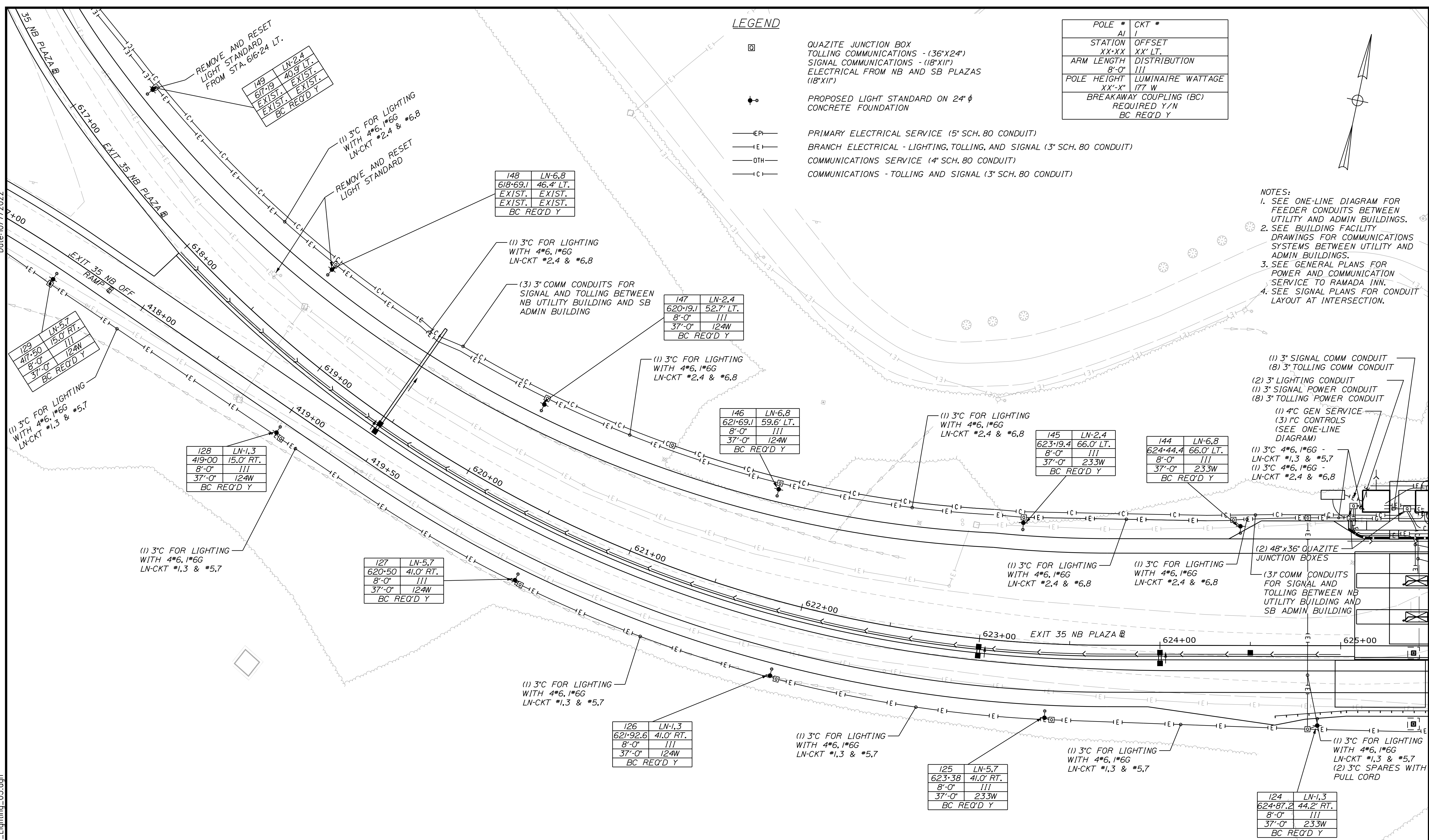
**LEGEND**

-  QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x11")
-  PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
-  PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
-  BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
-  COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
-  COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION XX'XX	OFFSET XX' LT.
ARM LENGTH 8'-0"	DISTRIBUTION III
POLE HEIGHT XX'-X"	LUMINAIRE WATTAGE 177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N BC REQ'D Y	



- NOTES:**
1. SEE ONE-LINE DIAGRAM FOR FEEDER CONDUITS BETWEEN UTILITY AND ADMIN BUILDINGS.
  2. SEE BUILDING FACILITY DRAWINGS FOR COMMUNICATIONS SYSTEMS BETWEEN UTILITY AND ADMIN BUILDINGS.
  3. SEE GENERAL PLANS FOR POWER AND COMMUNICATION SERVICE TO RAMADA INN.
  4. SEE SIGNAL PLANS FOR CONDUIT LAYOUT AT INTERSECTION.



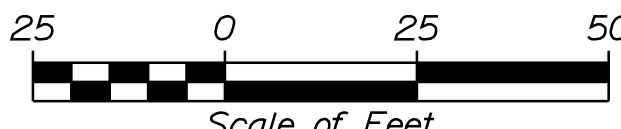
128	LN-1,3
419+00	15.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

127	LN-5,7
620+50	41.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	


126	LN-1,3
621+92.6	41.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

125	LN-5,7
623+38	41.0' RT.
8'-0"	III
37'-0"	233W
BC REQ'D Y	

124	LN-1,3
624+87.2	44.2' RT.
8'-0"	III
37'-0"	233W
BC REQ'D Y	

Scale: 

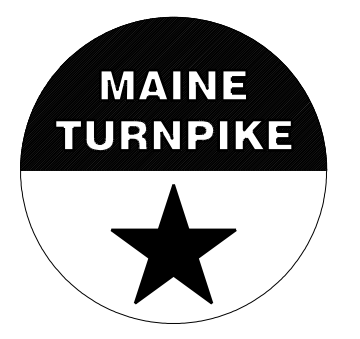
No.	Revision	By	Date

Designed by: 

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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PORTLAND, ME 04102  
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## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
POWER AND COMMUNICATION PLAN 5

SHEET NUMBER: LP-06  
251 OF 735

CONTRACT: 2022.07

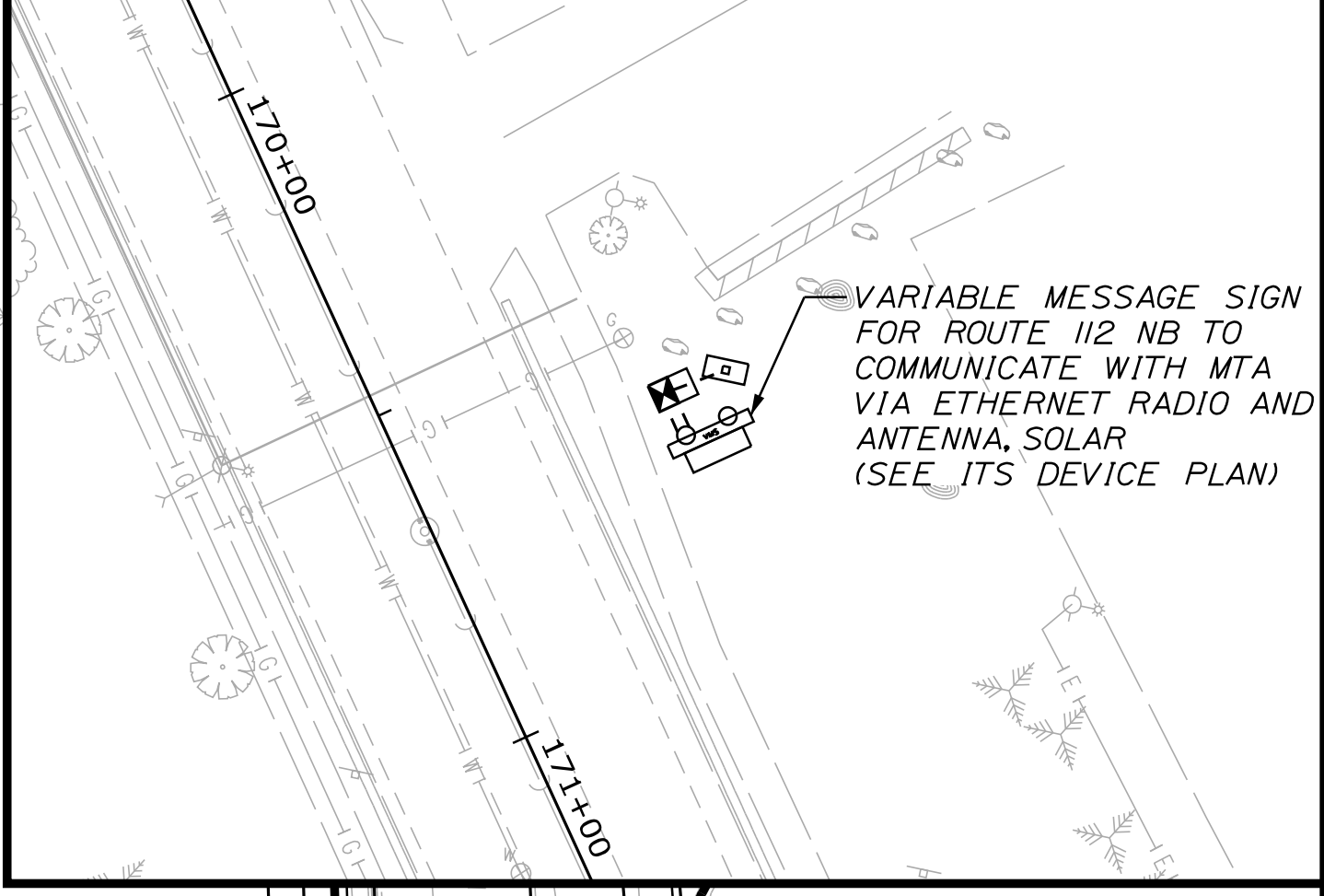
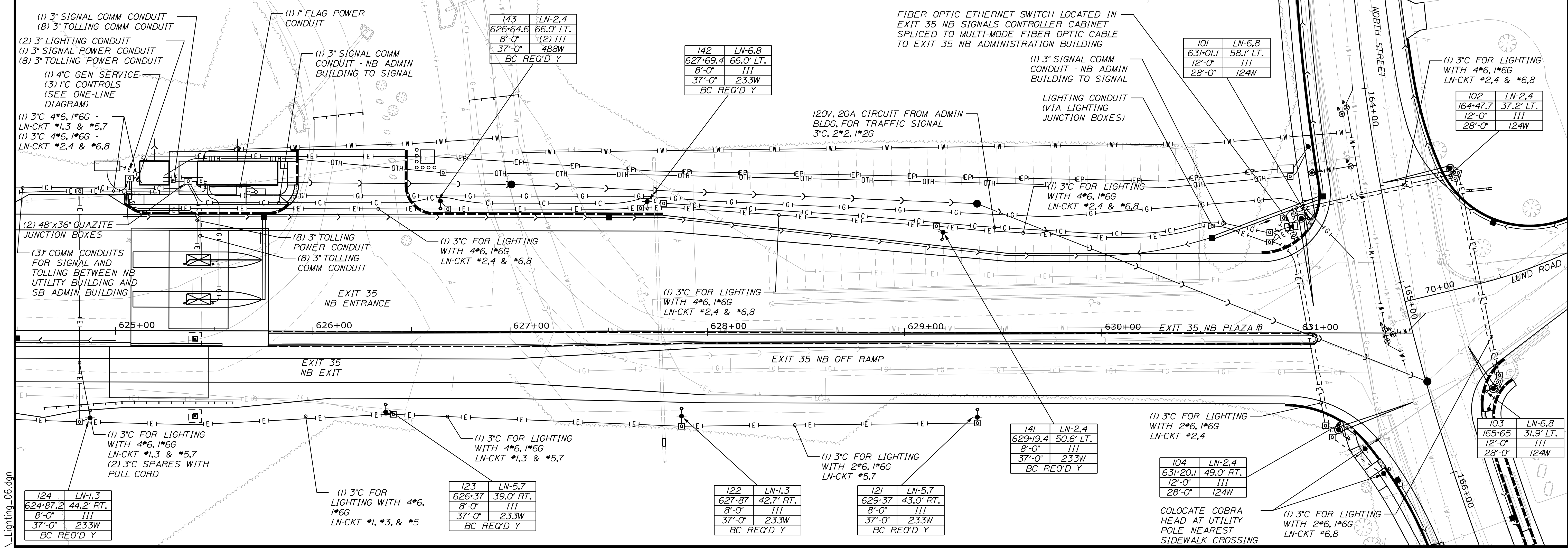
**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x11")
- PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- PRIMARY ELECTRICAL SERVICE (5' SCH. 80 CONDUIT)
- BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3' SCH. 80 CONDUIT)
- COMMUNICATIONS SERVICE (4' SCH. 80 CONDUIT)
- COMMUNICATIONS - TOLLING AND SIGNAL (3' SCH. 80 CONDUIT)

POLE #	AI	CKT #	I
STATION	XX-XX	OFFSET	XX' LT.
ARM LENGTH	8'-0"	DISTRIBUTION	III
POLE HEIGHT	XX'-X"	LUMINAIRE WATTAGE	177 W
BREAKAWAY COUPLING (BC)		REQUIRED Y/N	BC REQ'D Y

- NOTES:**
- SEE ONE-LINE DIAGRAM FOR FEEDER CONDUITS BETWEEN UTILITY AND ADMIN BUILDINGS.
  - SEE BUILDING FACILITY DRAWINGS FOR COMMUNICATIONS SYSTEMS BETWEEN UTILITY AND ADMIN BUILDINGS.
  - SEE GENERAL PLANS FOR POWER AND COMMUNICATION SERVICE TO RAMADA INN.
  - SEE SIGNAL PLANS FOR CONDUIT LAYOUT AT INTERSECTION.

Date: 10/17/2022



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS**  
**SACO (EXITS 35 & 36)**

**POWER AND COMMUNICATION PLAN 6**

SHEET NUMBER: LP-07  
CONTRACT: 2022.07  
252 OF 735

**LEGEND**

- ☐ QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x11")
- ⬤ PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- EPI— PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- EI— BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- OTH— COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C— COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION XX+XX	OFFSET XX' LT.
ARM LENGTH	DISTRIBUTION
8'-0"	III
POLE HEIGHT XX'-X"	LUMINAIRE WATTAGE
37'-0"	177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N	
BC REQ'D Y	

227	LS-1,3
209+50	15.9' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

226	LS-5,7
211+00	15.0' LT.
8'-0"	III
37'-0"	233W
BC REQ'D Y	

225	LS-1,3
212+50	15.0' LT.
8'-0"	III
37'-0"	233W
BC REQ'D Y	

228	LS-5,7
208+00	15.0' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

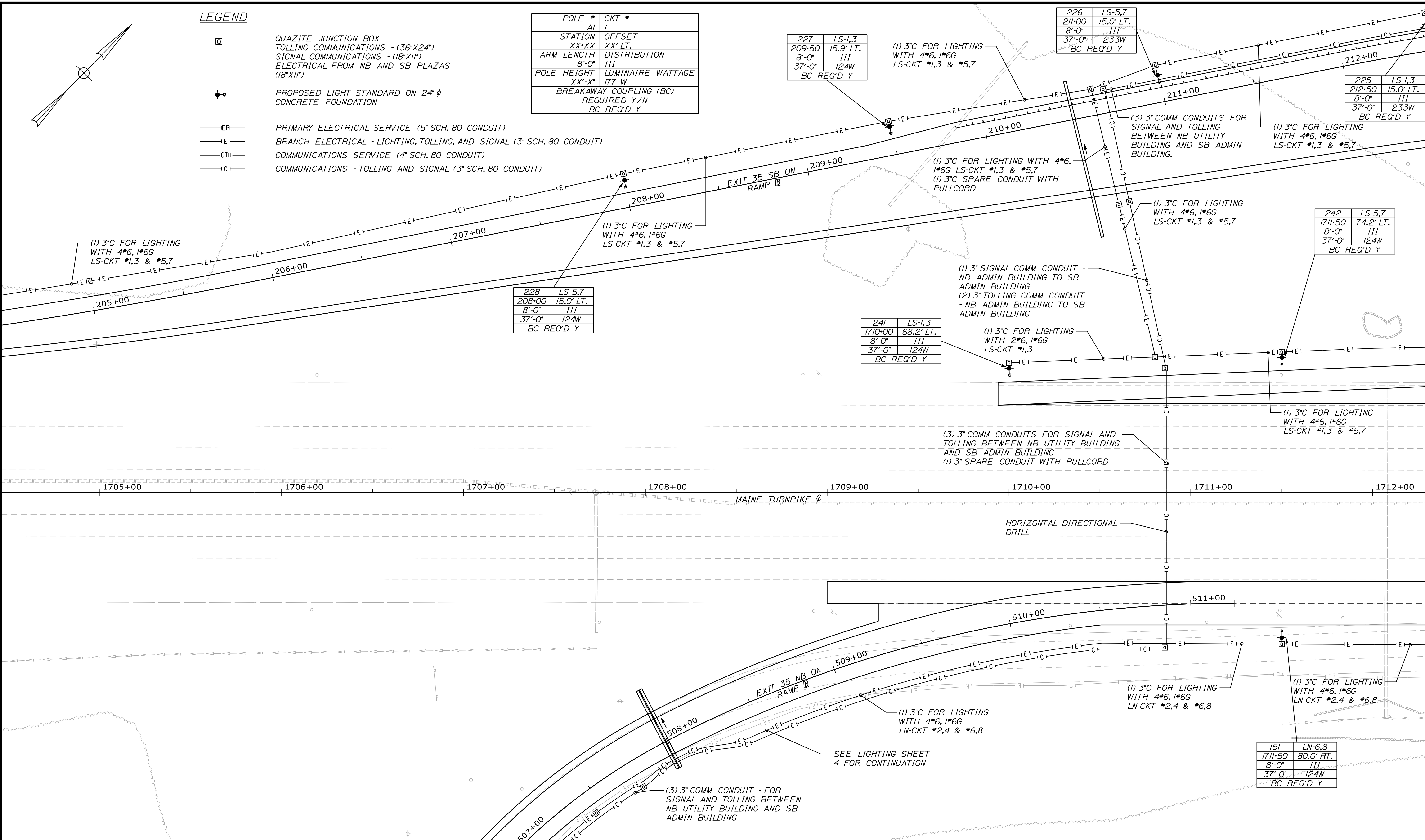
241	LS-1,3
1710+00	68.2' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

242	LS-5,7
1711+50	74.2' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

151	LN-6,8
1711+50	80.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

Date: 10/17/2022

Filename: ...HIGHWAY.MSTA...Lighting\_07.dgn



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

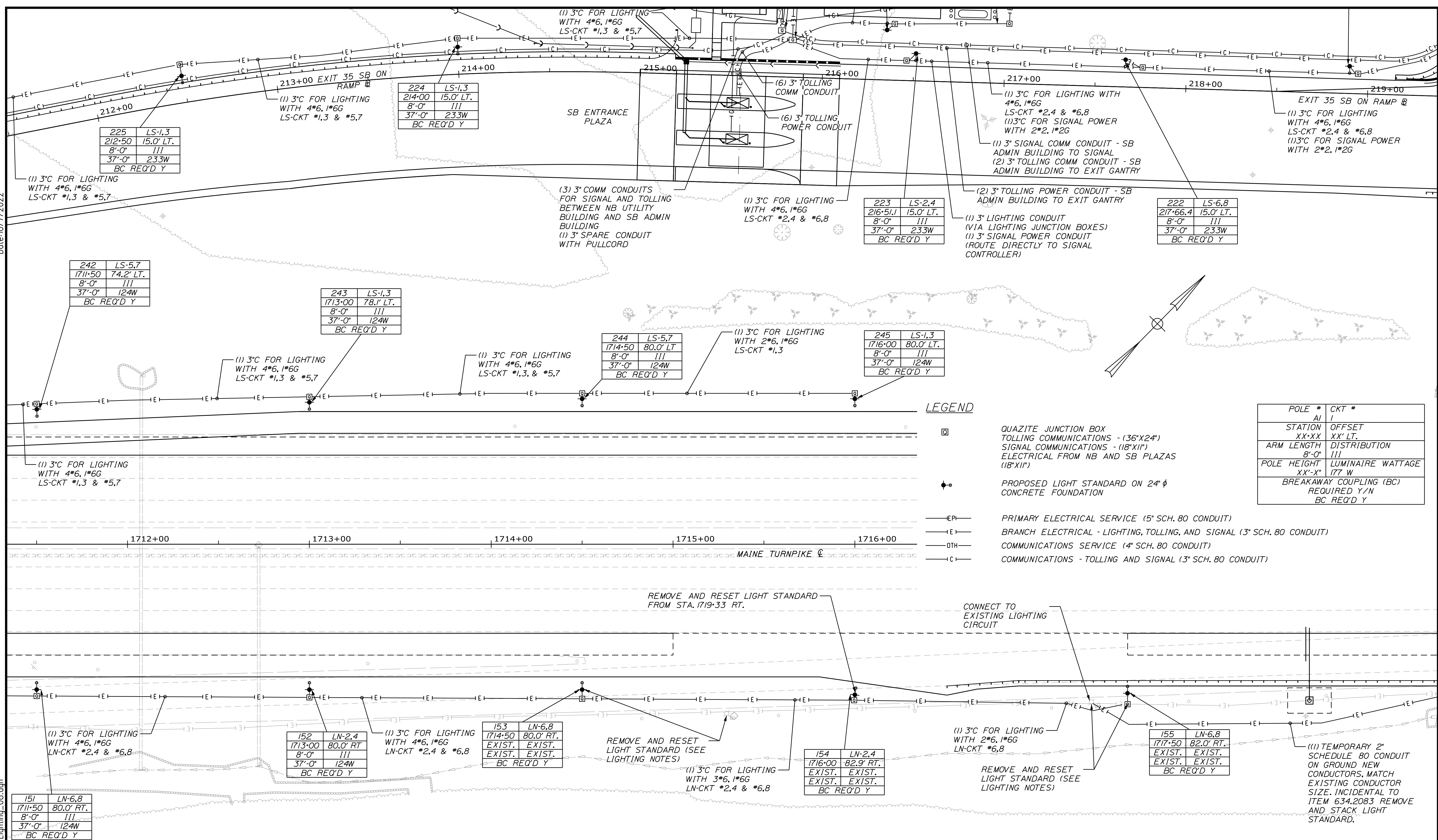
POWER AND COMMUNICATION PLAN 7

SHEET NUMBER: LP-08  
253 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...HIGHWAY.MSTA...Lighting\_08.dgn



**LEGEND**

- ☐ QUAZITE JUNCTION BOX
- TOLLING COMMUNICATIONS - (36"x24")
- SIGNAL COMMUNICATIONS - (18"x11")
- ELECTRICAL FROM NB AND SB PLAZAS (18"x11")
- ◆ PROPOSED LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION
- EP — PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- EI — BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- OTH — COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C — COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	AI	CKT #	I
STATION	XX.XX	OFFSET	XX' LT.
ARM LENGTH	8'-0"	DISTRIBUTION	III
POLE HEIGHT	XX'-X"	LUMINAIRE WATTAGE	177 W
BREAKAWAY COUPLING (BC)		REQUIRED Y/N	BC REQ'D Y

Scale: 1" = 25'

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 POWER AND COMMUNICATION PLAN 8

SHEET NUMBER: LP-09  
 CONTRACT: 2022.07  
 254 OF 735

**LEGEND**

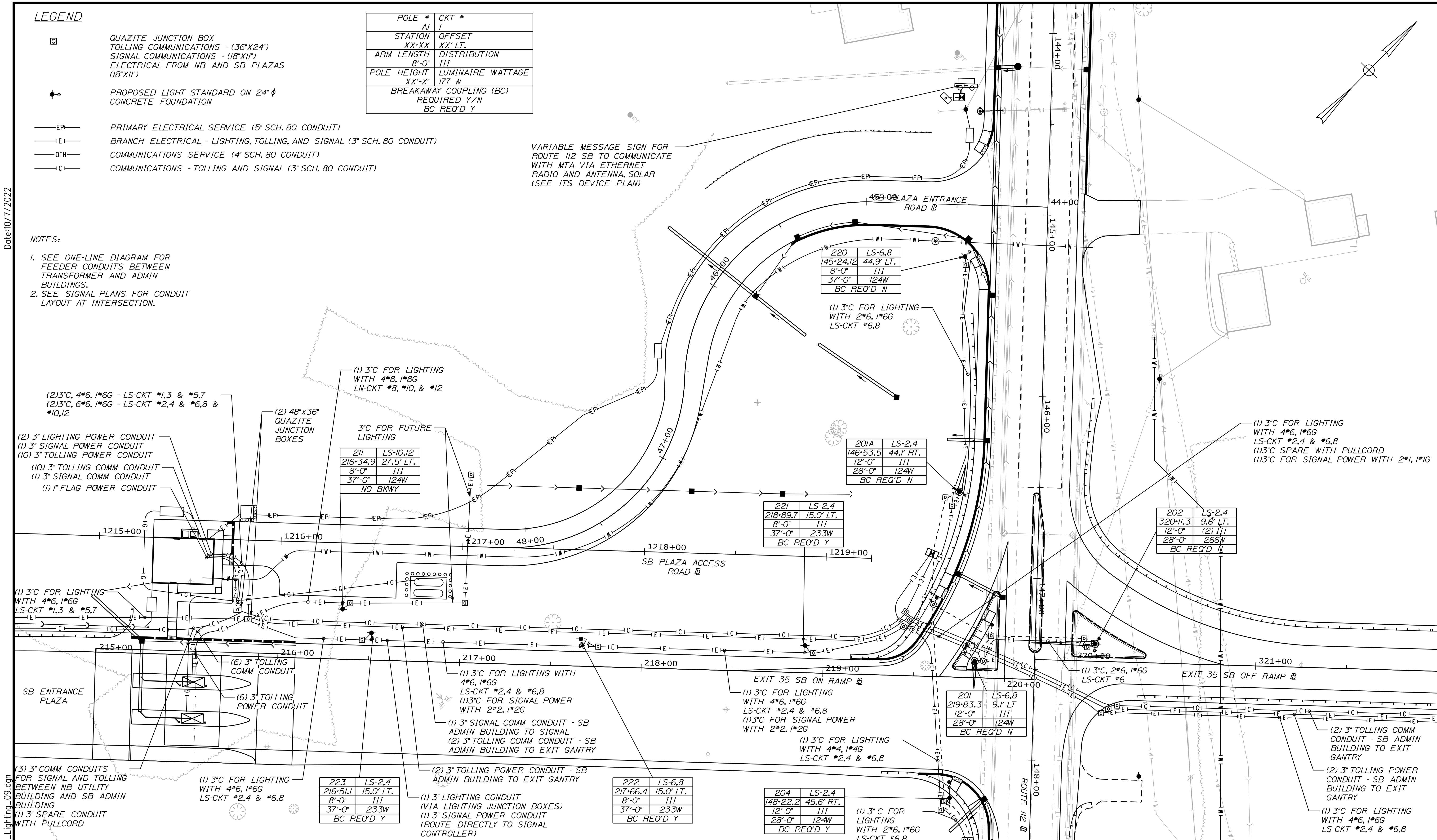
- ☐ QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x11")
- ⊕ PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- EPI— PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- EI— BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- OTH— COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C— COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	AI	CKT #	
STATION	XX'XX	OFFSET	XX' LT.
ARM LENGTH	8'-0"	DISTRIBUTION	III
POLE HEIGHT	XX'-X"	LUMINAIRE WATTAGE	177 W
		BREAKAWAY COUPLING (BC)	REQUIRED Y/N
		BC REQ'D	Y

VARIABLE MESSAGE SIGN FOR ROUTE 112 SB TO COMMUNICATE WITH MTA VIA ETHERNET RADIO AND ANTENNA, SOLAR (SEE ITS DEVICE PLAN)

**NOTES:**

1. SEE ONE-LINE DIAGRAM FOR FEEDER CONDUITS BETWEEN TRANSFORMER AND ADMIN BUILDINGS.
2. SEE SIGNAL PLANS FOR CONDUIT LAYOUT AT INTERSECTION.



Date: 10/17/2022  
Filename: ...HIGHWAY.MSTA...Lighting\_09.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

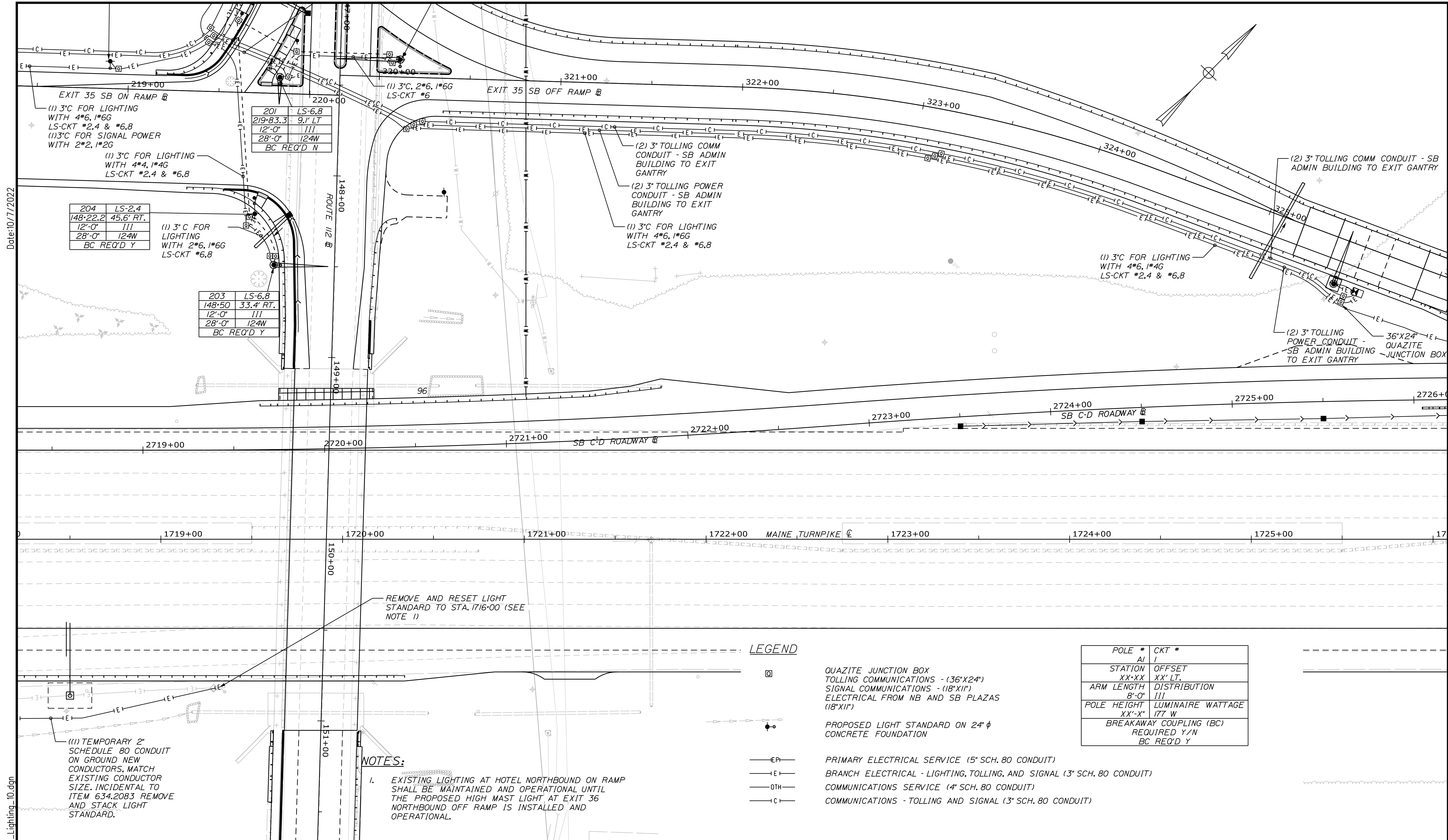
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

POWER AND COMMUNICATION PLAN 9

SHEET NUMBER: LP-10  
255 OF 735

CONTRACT: 2022.07



Date: 10/17/2022

Filename: ... \HIGHWAY\MSTA\Lighting\_10.dgn

201	LS-6,8
219+83.3	9.1' LT
12'-0"	111
28'-0"	124W
BC REQ'D N	

204	LS-2,4
148+22.2	45.6' RT.
12'-0"	111
28'-0"	124W
BC REQ'D Y	

203	LS-6,8
148+50	33.4' RT.
12'-0"	111
28'-0"	124W
BC REQ'D Y	

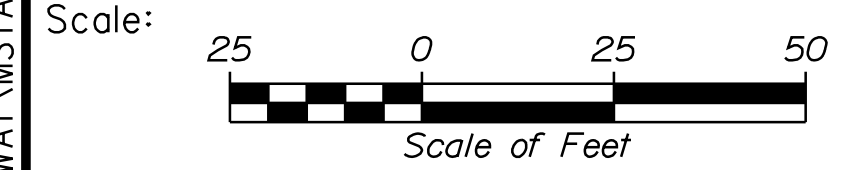
**NOTES:**

- EXISTING LIGHTING AT HOTEL NORTHBOUND ON RAMP SHALL BE MAINTAINED AND OPERATIONAL UNTIL THE PROPOSED HIGH MAST LIGHT AT EXIT 36 NORTHBOUND OFF RAMP IS INSTALLED AND OPERATIONAL.

**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x11")
- PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION	OFFSET
XX-XX	XX' LT.
ARM LENGTH	DISTRIBUTION
8'-0"	111
POLE HEIGHT	LUMINAIRE WATTAGE
XX'-X"	177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N BC REQ'D Y	



Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

POWER AND COMMUNICATION PLAN 10

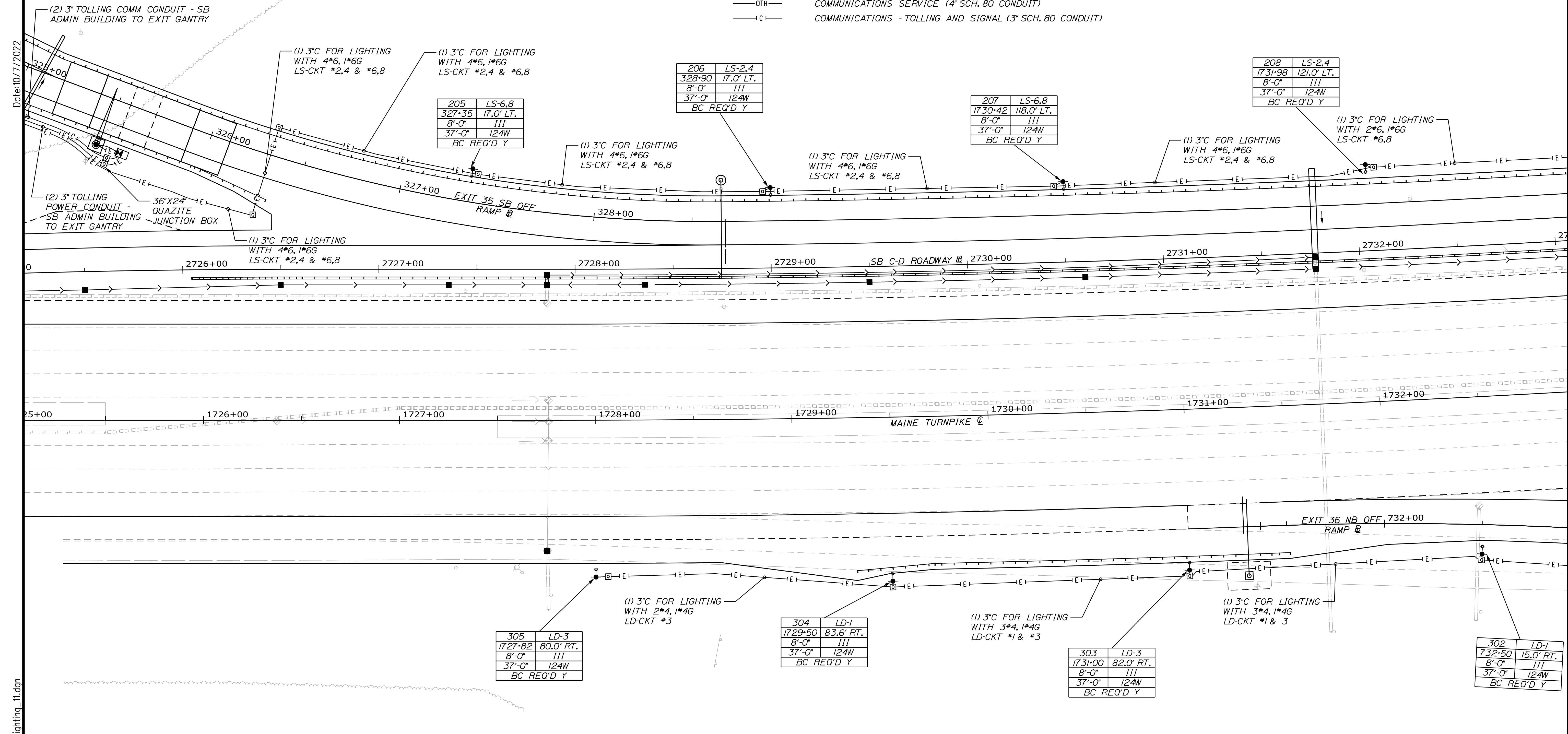
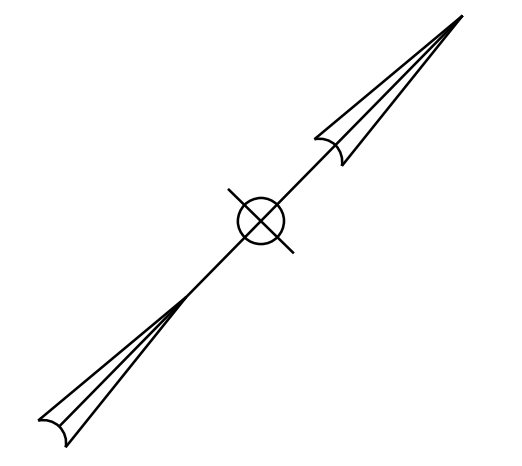
SHEET NUMBER: LP-11  
CONTRACT: 2022.07  
256 OF 735



**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"X24")  
SIGNAL COMMUNICATIONS - (18"X18")  
ELECTRICAL FROM NB AND SB PLAZAS (18"X18")
- ⊕ PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- E— PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- E— BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- OTH— COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C— COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	1
STATION XX-XX	OFFSET XX' LT.
ARM LENGTH 8'-0"	DISTRIBUTION III
POLE HEIGHT XX'-X"	LUMINAIRE WATTAGE 177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N BC REQ'D Y	



Date: 10/17/2022

Filename: ... \HIGHWAY\MSTA\Lighting\_11.dgn

Scale:

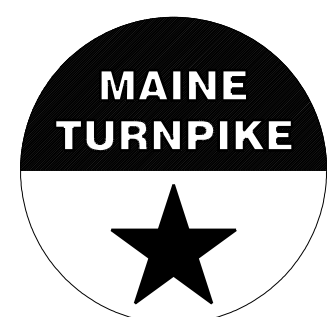
No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
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FAX (207) 883-3376



## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

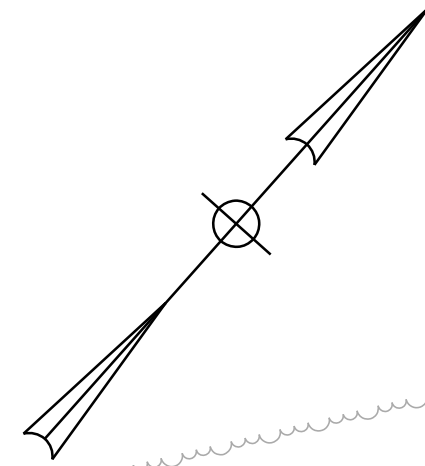
POWER AND COMMUNICATION PLAN 11

SHEET NUMBER: LP-12  
257 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ... \HIGHWAY\MSTA\Lighting\_12.dgn



**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x11")
- PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	AI	CKT #	1
STATION	XX.XX	OFFSET	XX' LT.
ARM LENGTH	8'-0"	DISTRIBUTION	III
POLE HEIGHT	XX'-X"	LUMINAIRE WATTAGE	177 W
BREAKAWAY COUPLING (BC)		REQUIRED Y/N	BC REQ'D Y

**NOTES:**

- AT HM-25 THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING HIGH MAST LIGHT FOUNDATION AND INSTALL A NEW 48" DIAMETER, 17' DEEP, REINFORCED CONCRETE FOUNDATION IN ACCORDANCE WITH MAINEDOT'S 2014 STANDARD DETAILS PAGE 626(03), AND PAGE 626(04) CHART S400-3.
- AT HM-25 THE CONTRACTOR SHALL INSTALL A NEW HIGH MAST LIGHT POLE AND LUMINAIRE ASSEMBLY. THE POLE AND LUMINAIRE SHALL BE PROVIDED BY THE AUTHORITY. SEE SPECIAL PROVISION 634.
- ORIENTATION OF LOWERING RING AND LUMINAIRES SHALL BE INSTALLED AS DIRECTED BY MTA. ORIENTATE AND ADJUST OUTPUT PER MTA DIRECTION. INSTALL LIGHTNING PROTECTION. CONNECT TO FURNISHED LIGHTNING ROD.

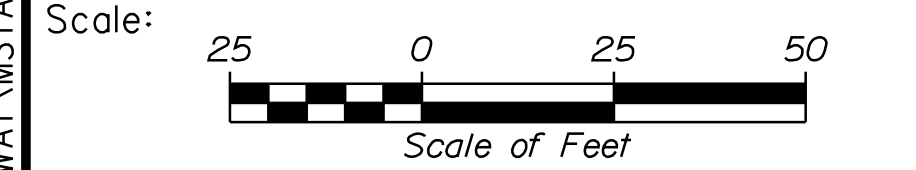
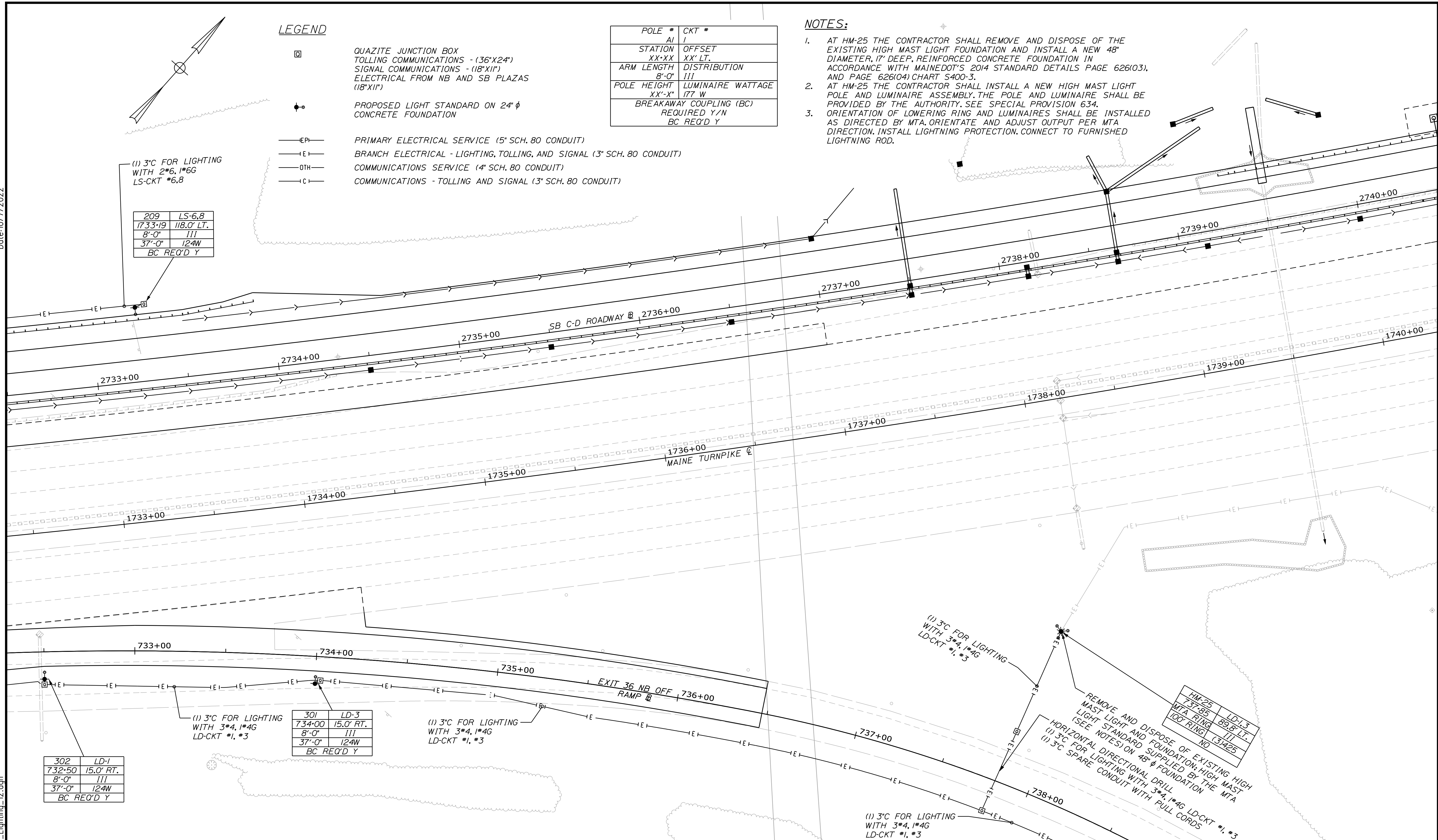
(1) 3" C FOR LIGHTING WITH 2#6, 1#6G LS-CKT #6,8

209	LS-6,8
1733+19	118.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

301	LD-3
734+00	15.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

302	LD-1
732+50	15.0' RT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

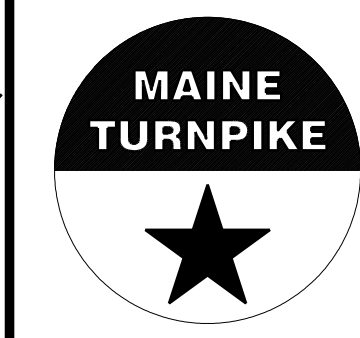
HM-25	LD-L3
737+65	89.8' LT.
100' RING	III
(3) 3" C	124W
NO	



Designed by:



STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
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FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
POWER AND COMMUNICATION PLAN 12**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: LP-13

258 OF 735

**NOTES:**

1. AT HM-25 THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING HIGH MAST LIGHT FOUNDATION AND INSTALL A NEW 48" DIAMETER, 17' DEEP, REINFORCED CONCRETE FOUNDATION IN ACCORDANCE WITH MAINE DOT'S 2014 STANDARD DETAILS PAGE 626(03), AND PAGE 626(04) CHART S400-3.
2. AT HM-25 THE CONTRACTOR SHALL INSTALL A NEW HIGH MAST LIGHT POLE AND LUMINAIRE ASSEMBLY. THE POLE AND LUMINAIRE SHALL BE PROVIDED BY THE AUTHORITY. SEE SPECIAL PROVISION 634.
3. AT HM-25 THE CONTRACTOR SHALL INSTALL A NEW HIGH MAST LIGHT POLE AND LUMINAIRE ASSEMBLY. THE POLE AND LUMINAIRE SHALL BE PROVIDED BY THE AUTHORITY. SEE SPECIAL PROVISION 634.

HM-25	LD-1,3
737+85	89.8' LT.
MTA RING	III
100' RING	(3)425
	NO

(1) 3" C FOR LIGHTING WITH 3\*4, 1\*4G LD-CKT #1, #3

REMOVE AND DISPOSE OF EXISTING HIGH MAST LIGHT AND FOUNDATION; HIGH MAST LIGHT STANDARD SUPPLIED BY THE MTA (SEE NOTES) ON 48" φ FOUNDATION

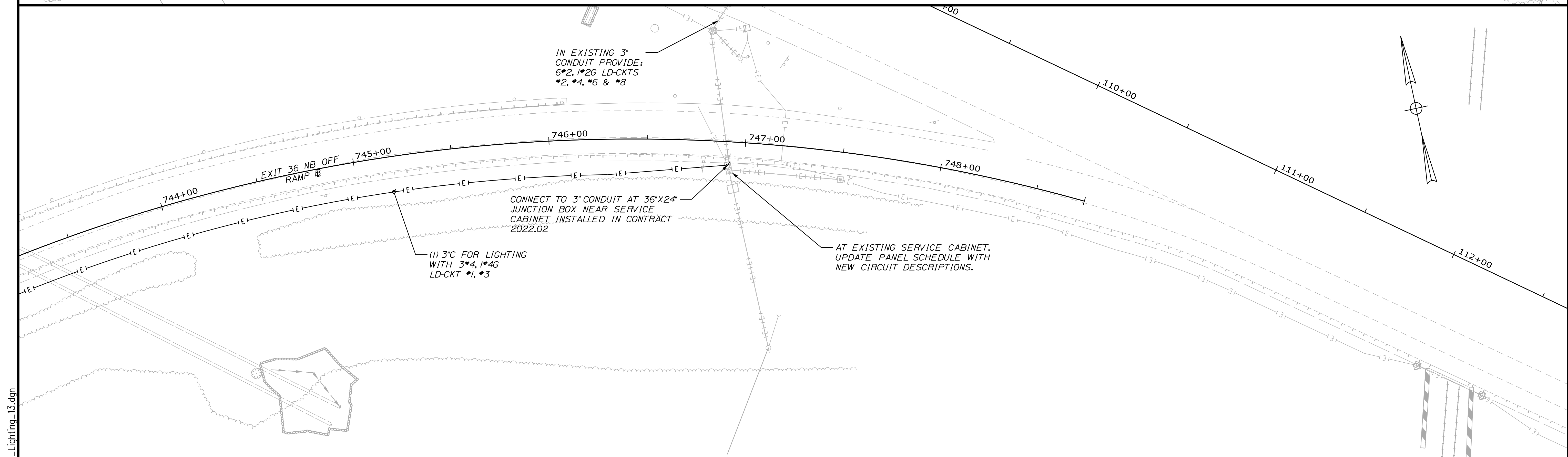
HORIZONTAL DIRECTIONAL DRILL  
(1) 3" C FOR LIGHTING WITH 3\*4, 1\*4G LD-CKT #1, #3  
(1) 3" C SPARE CONDUIT WITH PULL CORDS

**LEGEND**

- QUAZITE JUNCTION BOX TOLLING COMMUNICATIONS - (36"x24") SIGNAL COMMUNICATIONS - (18"x11") ELECTRICAL FROM NB AND SB PLAZAS (18"x11")
- ⬤ PROPOSED LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION
- EP— PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- E— BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- OTH— COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C— COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	AI	CKT #	I
STATION	XX-XX	OFFSET	XX' LT.
ARM LENGTH	8'-0"	DISTRIBUTION	III
POLE HEIGHT	XX'-X"	LUMINAIRE WATTAGE	177 W
		BREAKAWAY COUPLING (BC)	REQUIRED Y/N
		BC REQ'D Y	

Date: 10/17/2022



Filename: ...HIGHWAY.MSTA...Lighting\_13.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
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FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

POWER AND COMMUNICATION PLAN 13

SHEET NUMBER: LP-14  
259 OF 735

CONTRACT: 2022.07

REMOVE AND DISPOSE OF EXISTING HIGH MAST LIGHT HM-26 AND FOUNDATION; REMOVE ASSOCIATED HANDHOLE. CONDUIT TO BE ABANDONED IN PLACE AND REMOVE CONDUCTORS.

HORIZONTAL DIRECTIONAL DRILL  
 (1) 3" LIGHTING POWER CONDUIT  
 (2) 3" SPARE CONDUITS WITH PULLCORDS  
 CONDUIT LOCATION SHALL BE ADJUSTED TO AVOID CONFLICTS WITH TIE-BACKS IF NECESSARY

321	LD-6
2742+00	36.0' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

322	LD-8
2743+15	37.0' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

323	LD-6
2746+00	37.0' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

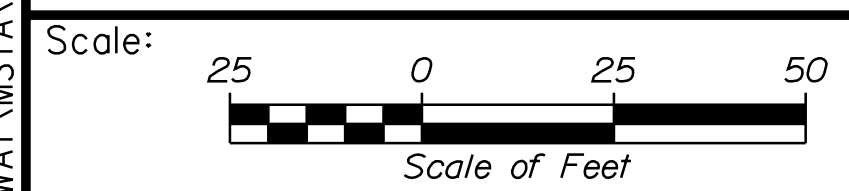
**LEGEND**

QUAZITE JUNCTION BOX  
 TOLLING COMMUNICATIONS - (36"X24")  
 SIGNAL COMMUNICATIONS - (18"X12")  
 ELECTRICAL FROM NB AND SB PLAZAS (18"X12")

PROPOSED LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION

PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)  
 BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)  
 COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)  
 COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

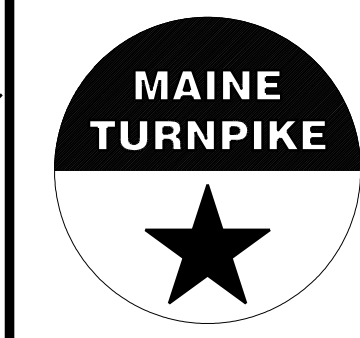
POLE #	CKT #
AI	I
STATION XX+XX	OFFSET XX' LT.
ARM LENGTH 8'-0"	DISTRIBUTION III
POLE HEIGHT XX'-X"	LUMINAIRE WATTAGE 177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N	
BC REQ'D Y	



Designed by:



STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
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**THE GOLD STAR MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 POWER AND COMMUNICATION PLAN 14

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.			
Designed	MRC	10\22	Checked
Drawn	CHL	10\22	In Charge of

By	Date	By	Date
PJV	10\22	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT:2022.07

SHEET NUMBER: LP-15  
 260 OF 735

Date:10/17/2022

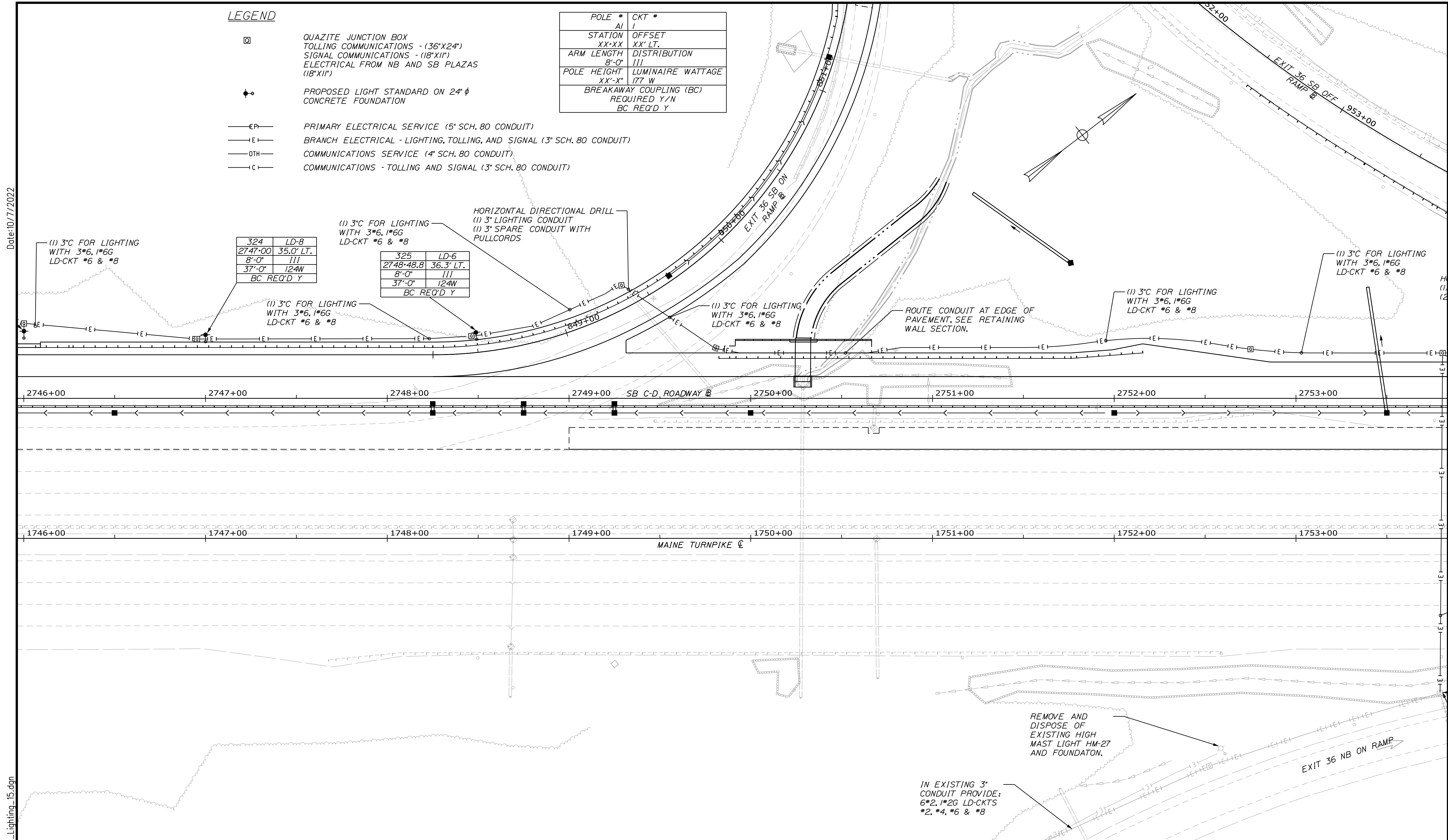
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**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"X24")  
SIGNAL COMMUNICATIONS - (18"X11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"X11")
- ⊕ PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- E— PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- E— BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- O— COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C— COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	AI	CKT #	1
STATION	XX+XX	OFFSET	XX' LT.
ARM LENGTH	8'-0"	DISTRIBUTION	III
POLE HEIGHT	XX'-X"	LUMINAIRE WATTAGE	177 W
BREAKAWAY COUPLING (BC)		REQUIRED Y/N	BC REQ'D Y

Date: 10/17/2022



324	LD-8
2747+00	35.0' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

325	LD-6
2748+48.8	36.3' LT.
8'-0"	III
37'-0"	124W
BC REQ'D Y	

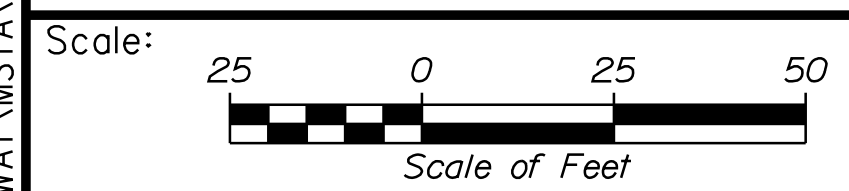
2746+00    2747+00    2748+00    2749+00    SB C-D ROADWAY    2750+00    2751+00    2752+00    2753+00

1746+00    1747+00    1748+00    1749+00    MAINE TURNPIKE    1750+00    1751+00    1752+00    1753+00

REMOVE AND DISPOSE OF EXISTING HIGH MAST LIGHT HM-27 AND FOUNDATION.

IN EXISTING 3" CONDUIT PROVIDE:  
6\*2, 1\*2G LD-CKTS  
\*2, \*4, \*6 & \*8

EXIT 36 NB ON RAMP



Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
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FAX (207) 883-3376

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

POWER AND COMMUNICATION PLAN 15

SHEET NUMBER: LP-16  
261 OF 735

CONTRACT: 2022.07

Filename: ... \HIGHWAY\MSTA\Lighting\_15.dgn

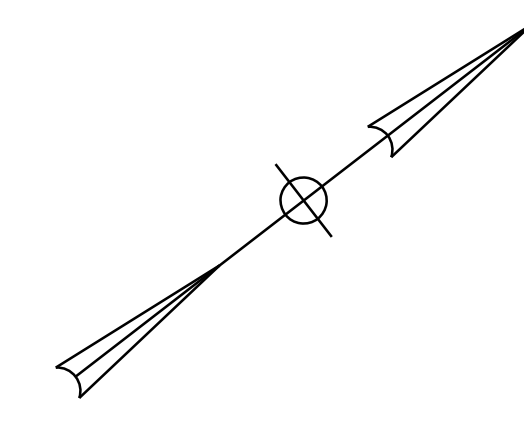
Date: 10/17/2022

Filename: ... \HIGHWAY\MSTA\Lighting\_16.dgn

**LEGEND**

- QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"X24")  
SIGNAL COMMUNICATIONS - (18"X18")  
ELECTRICAL FROM NB AND SB PLAZAS (18"X18")
- ◆ PROPOSED LIGHT STANDARD ON 24" φ CONCRETE FOUNDATION
- EP— PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- E— BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- OTH— COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C— COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	1
STATION XX-XX	OFFSET XX' LT.
ARM LENGTH 8'-0"	DISTRIBUTION 111
POLE HEIGHT XX'-X"	LUMINAIRE WATTAGE 177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N	
BC REQ'D Y	

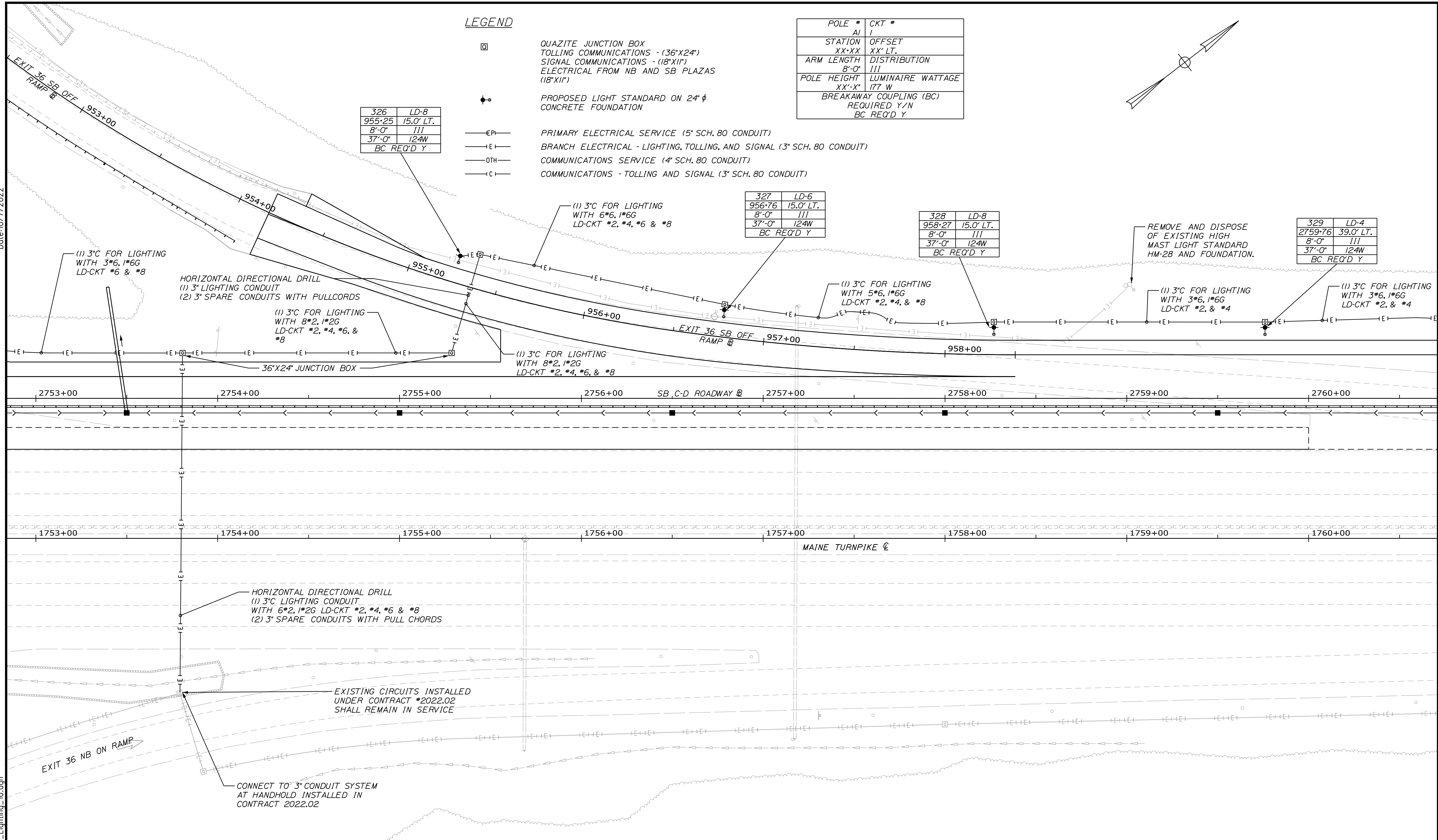


326	LD-8
955-25	15.0' LT.
8'-0"	111
37'-0"	124W
BC REQ'D Y	

327	LD-6
956-76	15.0' LT.
8'-0"	111
37'-0"	124W
BC REQ'D Y	

328	LD-8
958-27	15.0' LT.
8'-0"	111
37'-0"	124W
BC REQ'D Y	

329	LD-4
2759-76	39.0' LT.
8'-0"	111
37'-0"	124W
BC REQ'D Y	



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

POWER AND COMMUNICATION PLAN 16

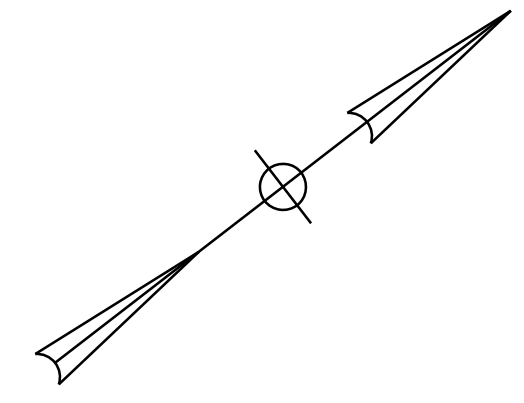
SHEET NUMBER: LP-17  
262 OF 735

CONTRACT: 2022.07

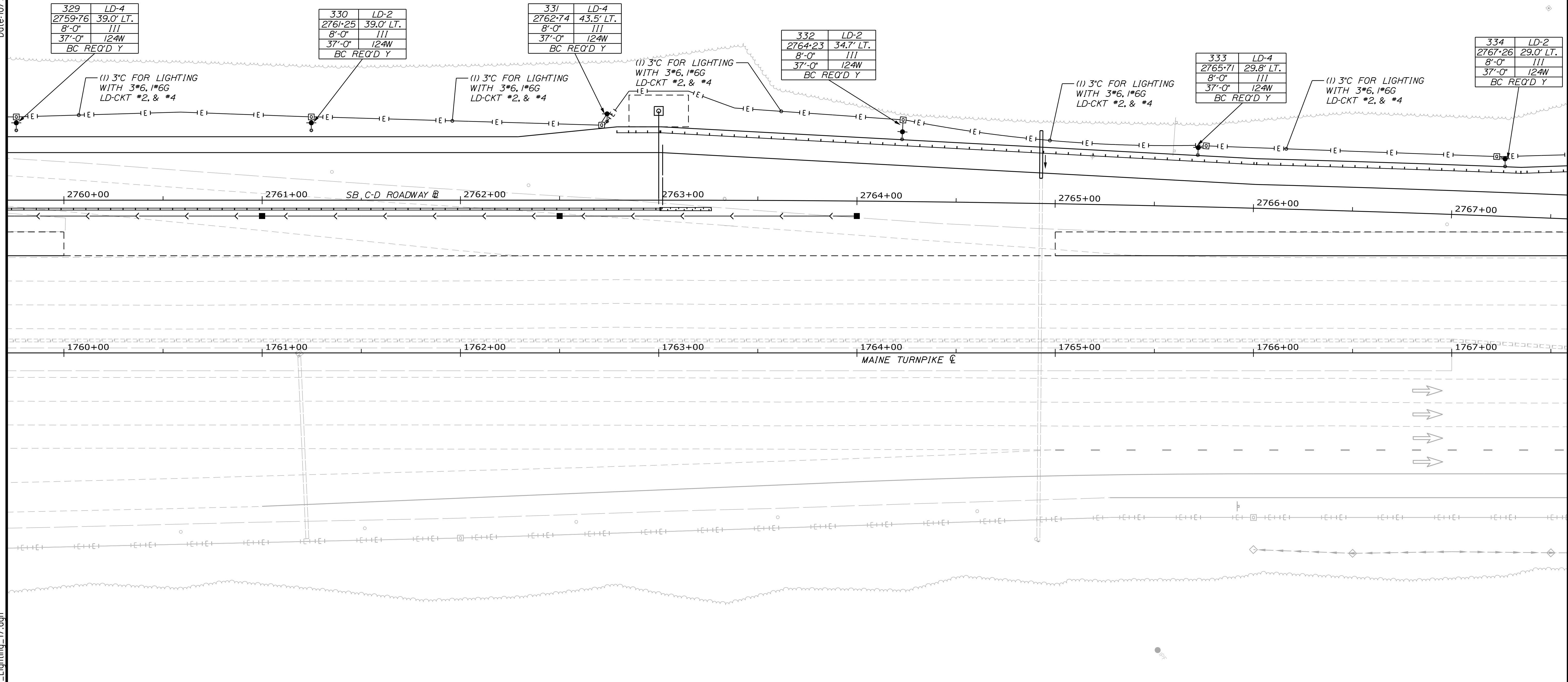
**LEGEND**

- ☐ QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"X24")  
SIGNAL COMMUNICATIONS - (18"X12")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"X12")
- PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
- EP— PRIMARY ELECTRICAL SERVICE (5" SCH. 80 CONDUIT)
- E— BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
- OTH— COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
- C— COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION	OFFSET
XX'XX	XX' LT.
ARM LENGTH	DISTRIBUTION
8'-0"	III
POLE HEIGHT	LUMINAIRE WATTAGE
XX'-X"	177 W
BREAKAWAY COUPLING (BC)	
REQUIRED Y/N	
BC REQ'D Y	



Date: 10/17/2022



Filename: ... \HIGHWAY\MSTA\Lighting\_17.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

POWER AND COMMUNICATION PLAN 17

SHEET NUMBER: LP-18



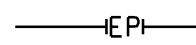
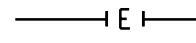
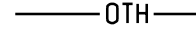
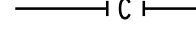
CONTRACT: 2022.07

263 OF 735

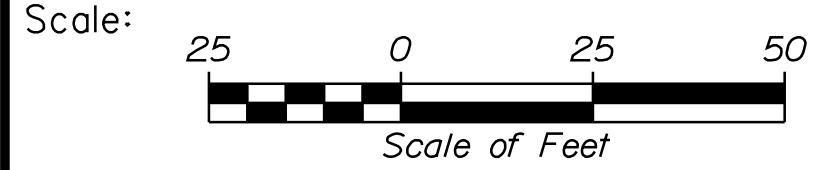
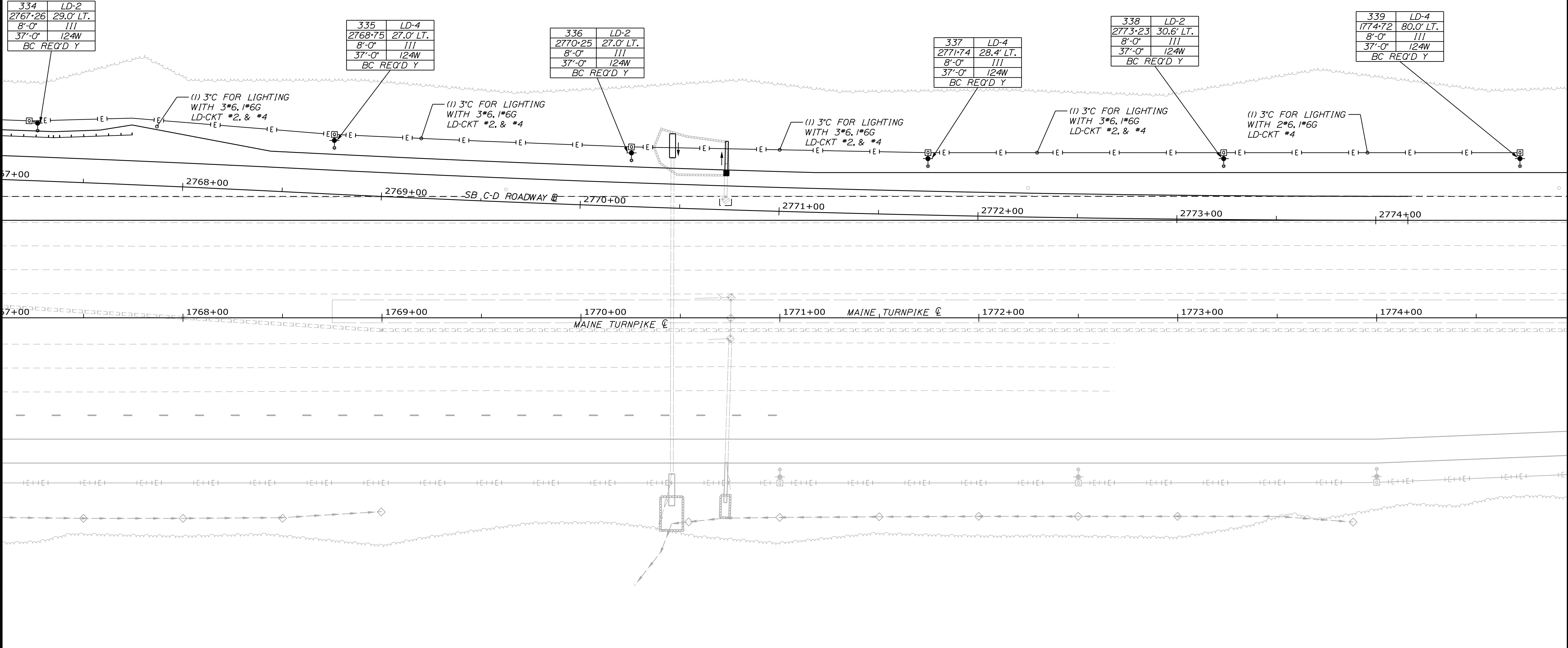
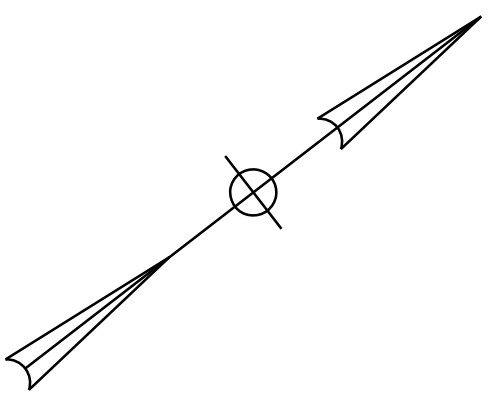
Date: 10/17/2022

Filename: ... \HIGHWAY\MSTA\Lighting\_18.dgn


**LEGEND**

-  QUAZITE JUNCTION BOX  
TOLLING COMMUNICATIONS - (36"x24")  
SIGNAL COMMUNICATIONS - (18"x11")  
ELECTRICAL FROM NB AND SB PLAZAS  
(18"x11")
-  PROPOSED LIGHT STANDARD ON 24" φ  
CONCRETE FOUNDATION
-  PRIMARY ELECTRICAL SERVICE (15" SCH. 80 CONDUIT)
-  BRANCH ELECTRICAL - LIGHTING, TOLLING, AND SIGNAL (3" SCH. 80 CONDUIT)
-  COMMUNICATIONS SERVICE (4" SCH. 80 CONDUIT)
-  COMMUNICATIONS - TOLLING AND SIGNAL (3" SCH. 80 CONDUIT)

POLE #	CKT #
AI	I
STATION XX-XX	OFFSET XX' LT.
ARM LENGTH 8'-0"	DISTRIBUTION III
POLE HEIGHT XX'-X"	LUMINAIRE WATTAGE 177 W
BREAKAWAY COUPLING (BC) REQUIRED Y/N BC REQ'D Y	



Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date	By	Date	
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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PORTLAND, ME 04102  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

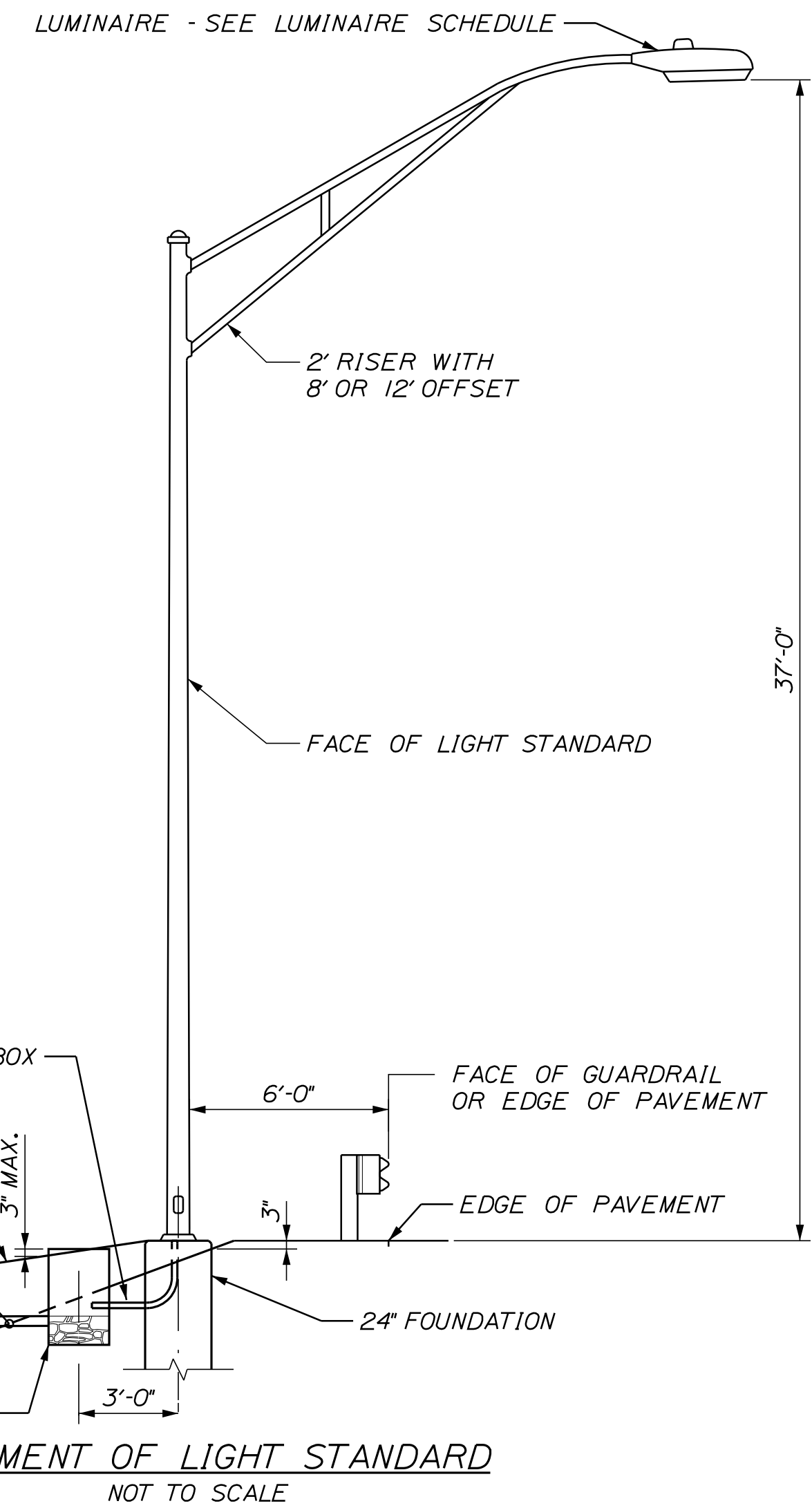
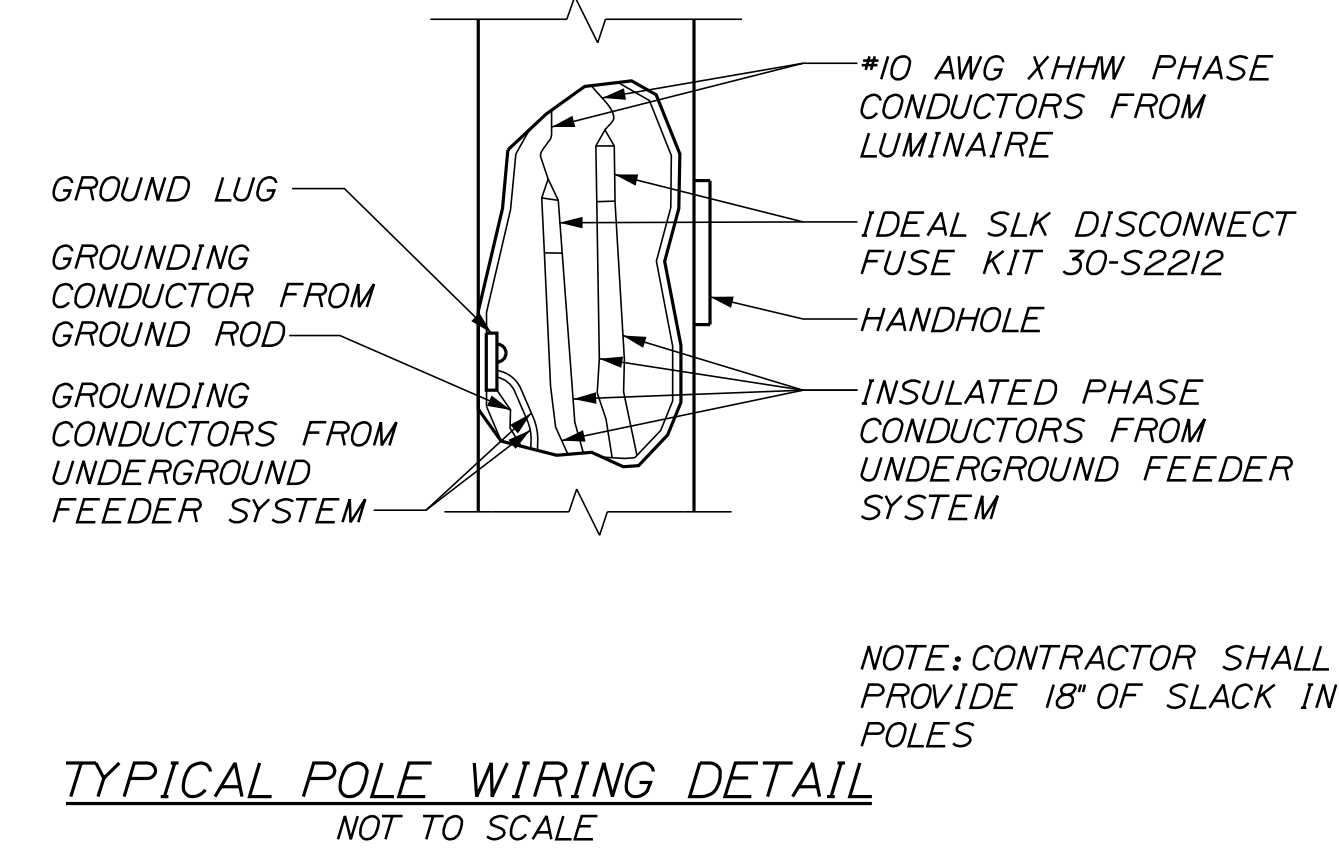
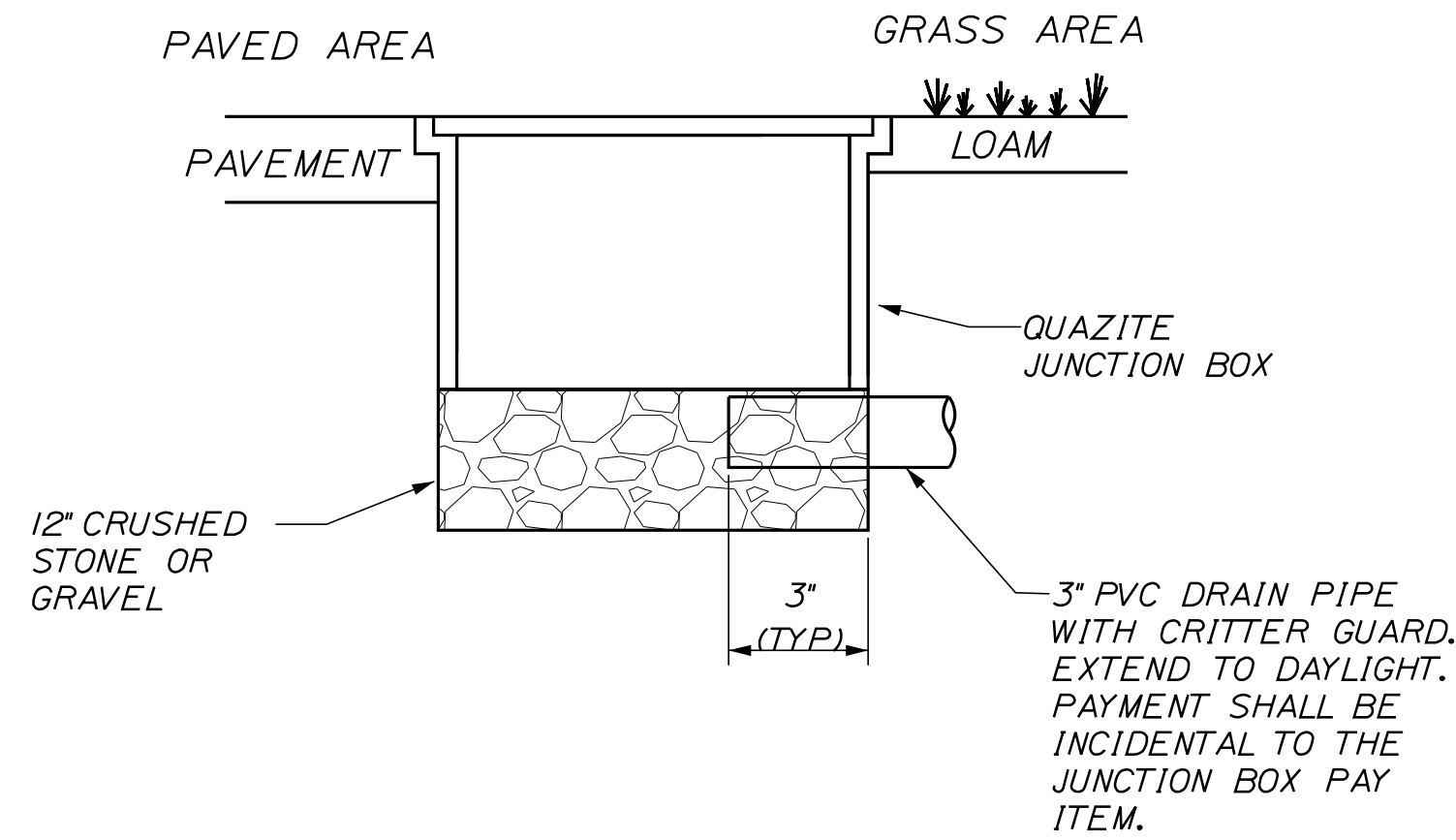
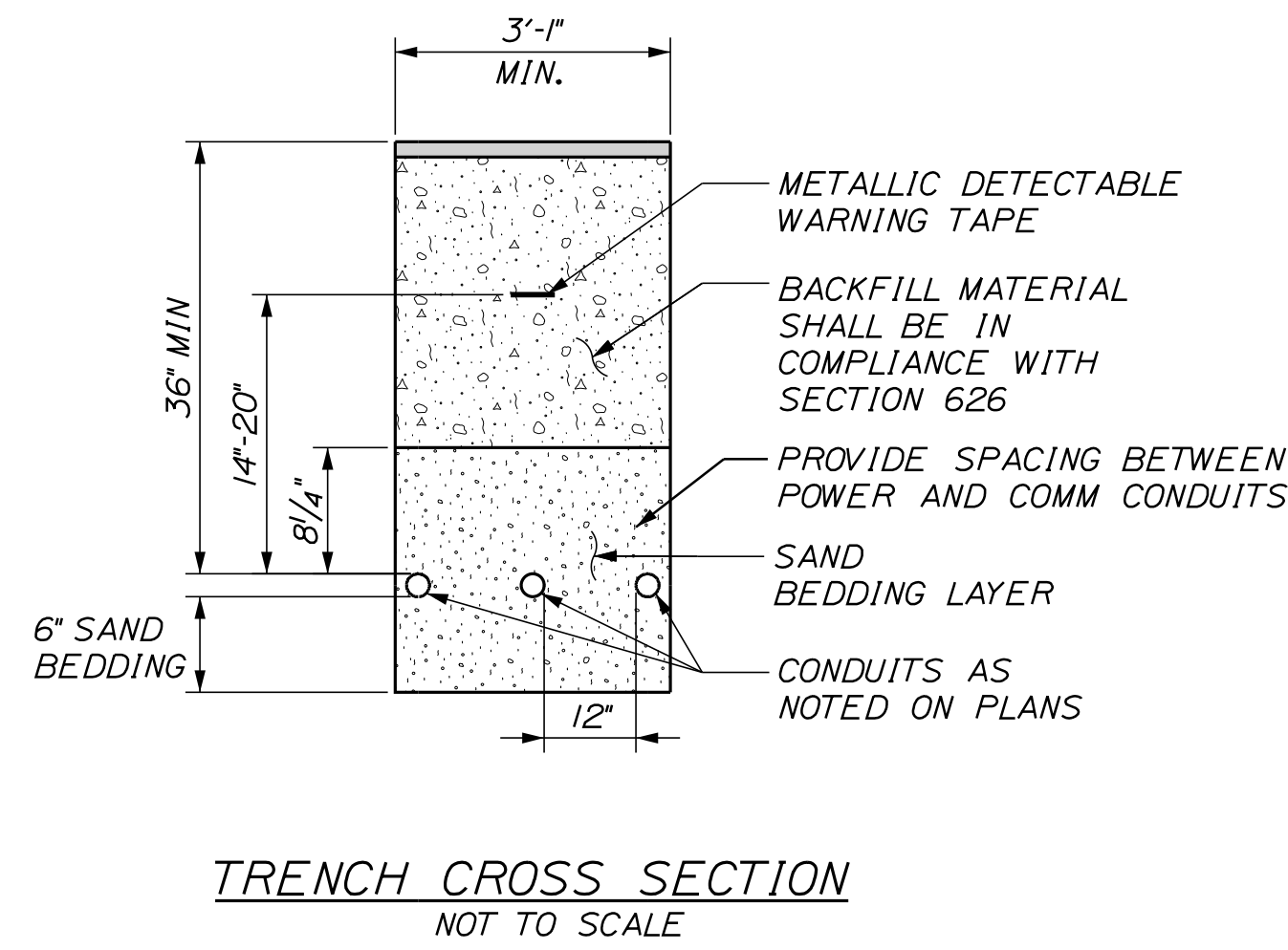
POWER AND COMMUNICATION PLAN 18

SHEET NUMBER: LP-19  
264 OF 735

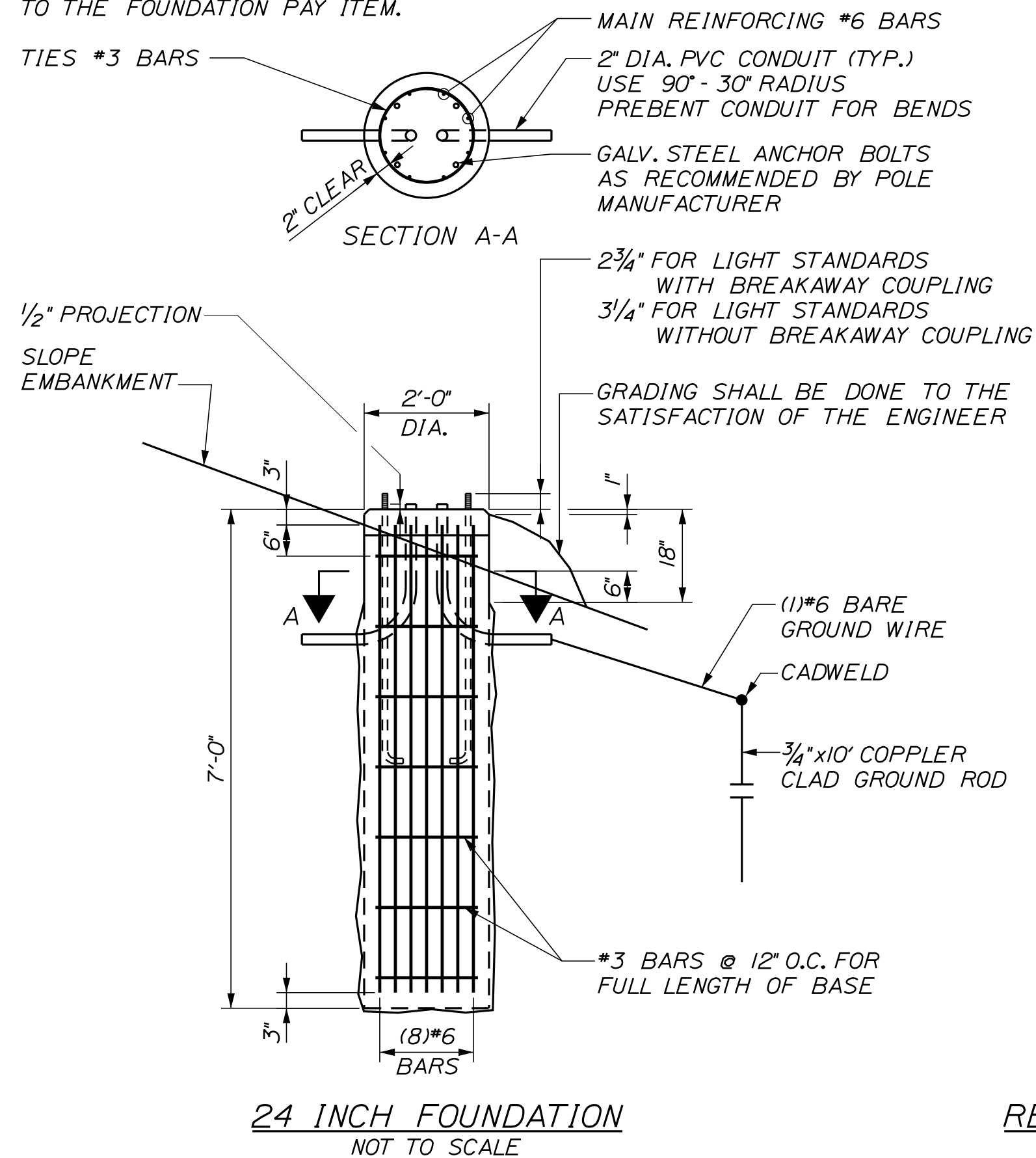
CONTRACT: 2022.07



Date: 10/17/2022



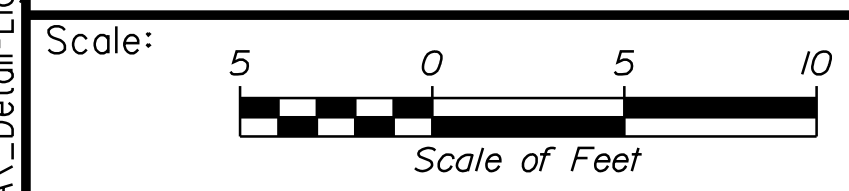
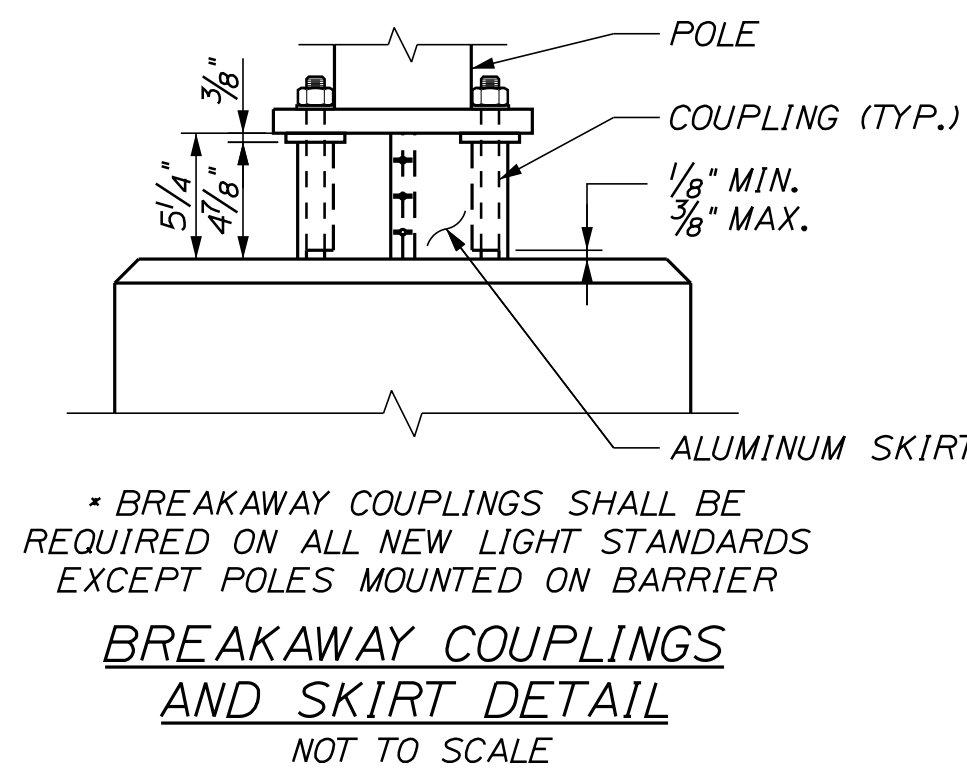
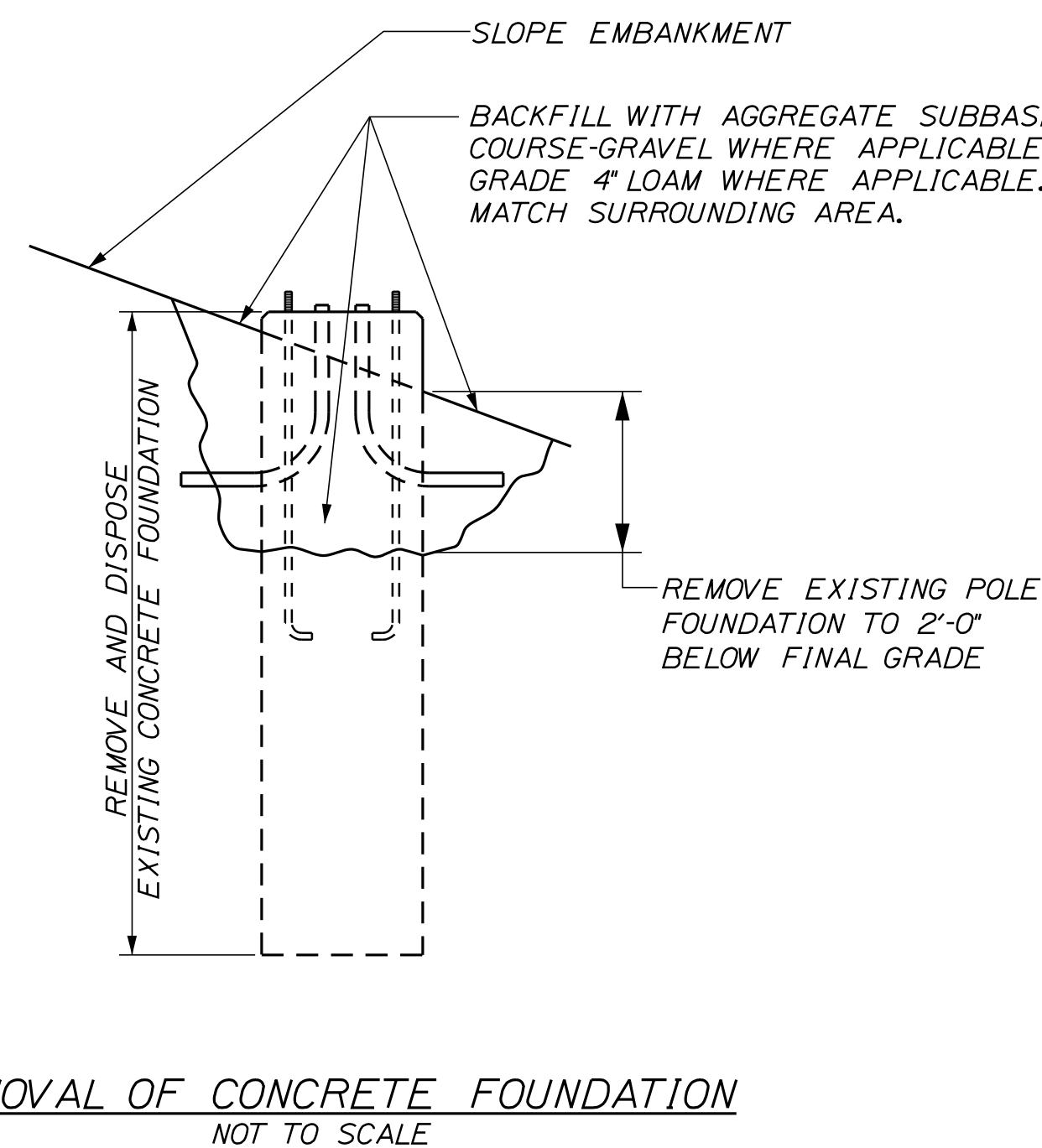
NOTE: WHERE SOLID ROCK IS ENCOUNTERED AT LESS THAN THE REQUIRED DISTANCE BELOW GROUND LEVEL, REINFORCING STEEL SHALL BE DOWELED INTO LEDGE AS SHOWN ON MAINE DOT STANDARD DETAIL 626(06). PAYMENT SHALL BE INCIDENTAL TO THE FOUNDATION PAY ITEM.



**JUNCTION BOX COVER & FRAME**

NOTES:

1. INSTALL JUNCTION BOXES ON GRADE.
2. SPLICES IN BOX SHALL BE MADE WITH ILSCO USPA-350SS-DB DUAL RATED INSULATED, IN-LINE, WATERPROOF SPLICE, UL LISTED FOR DIRECT BURIAL (WIRE RANGE FROM 350KCMIL-10AWG STRANDED) ONLY. PROVIDE ENOUGH SLACK IN THE WIRE TO ALLOW REMOVAL OF SPLICES AND NEATLY ARRANGE WIRE IN BOX.
3. THE COVER SHALL BE LABELED WITH THE FUNCTION DESIGNATION IN MIN TEXT AS FOLLOWS:  
 -"LIGHTING" FOR LIGHTING CONDUIT  
 -"COMMUNICATION" FOR COMMUNICATIONS CONDUITS  
 -"SIGNAL" FOR SIGNAL CONDUITS
4. COVER SHALL BE HEAVY DUTY TYPE TIER 22 WITH (2) 1/2" STAINLESS STEEL PENTA-HEAD BOLTS.



No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 POWER AND COMMUNICATION DETAILS

SHEET NUMBER: LD-1  
 CONTRACT: 2022.07  
 265 OF 735

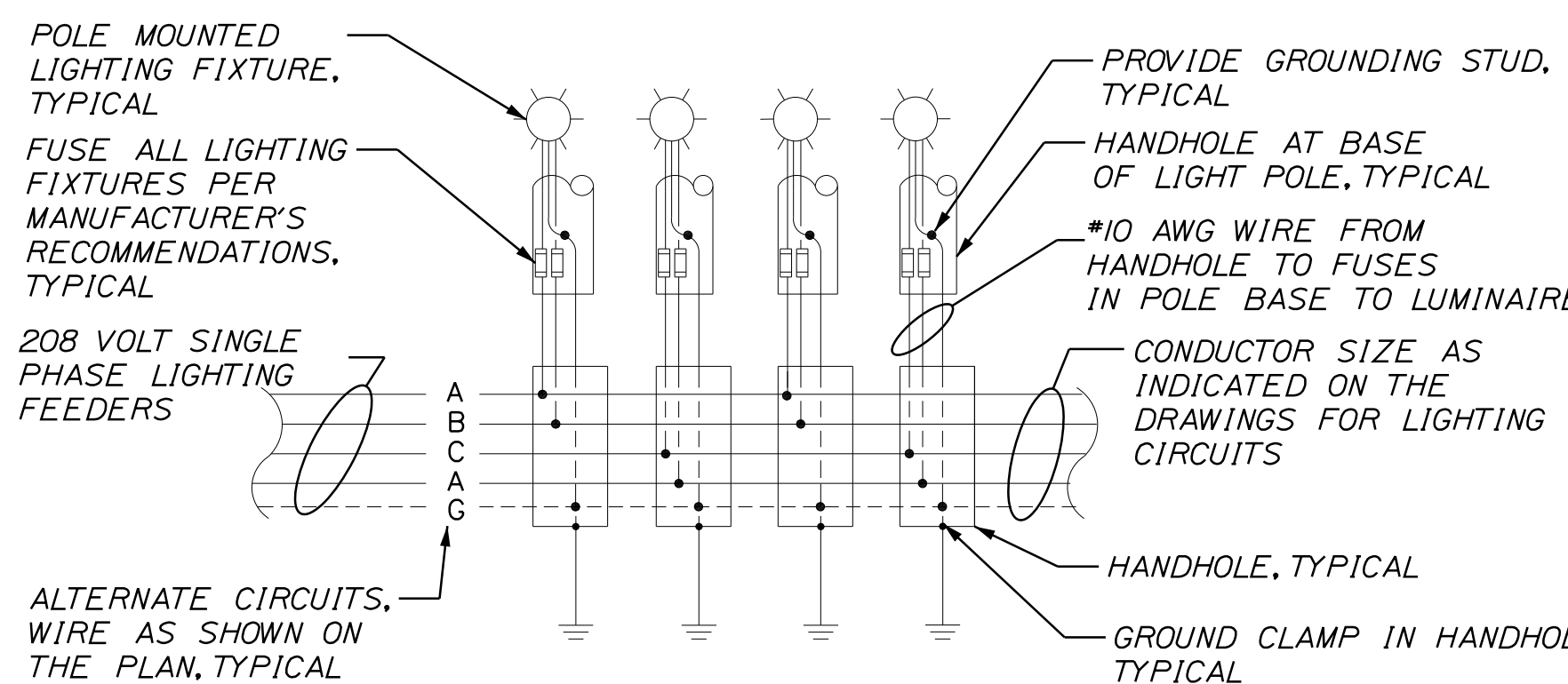
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**LIGHTING NOTES:**

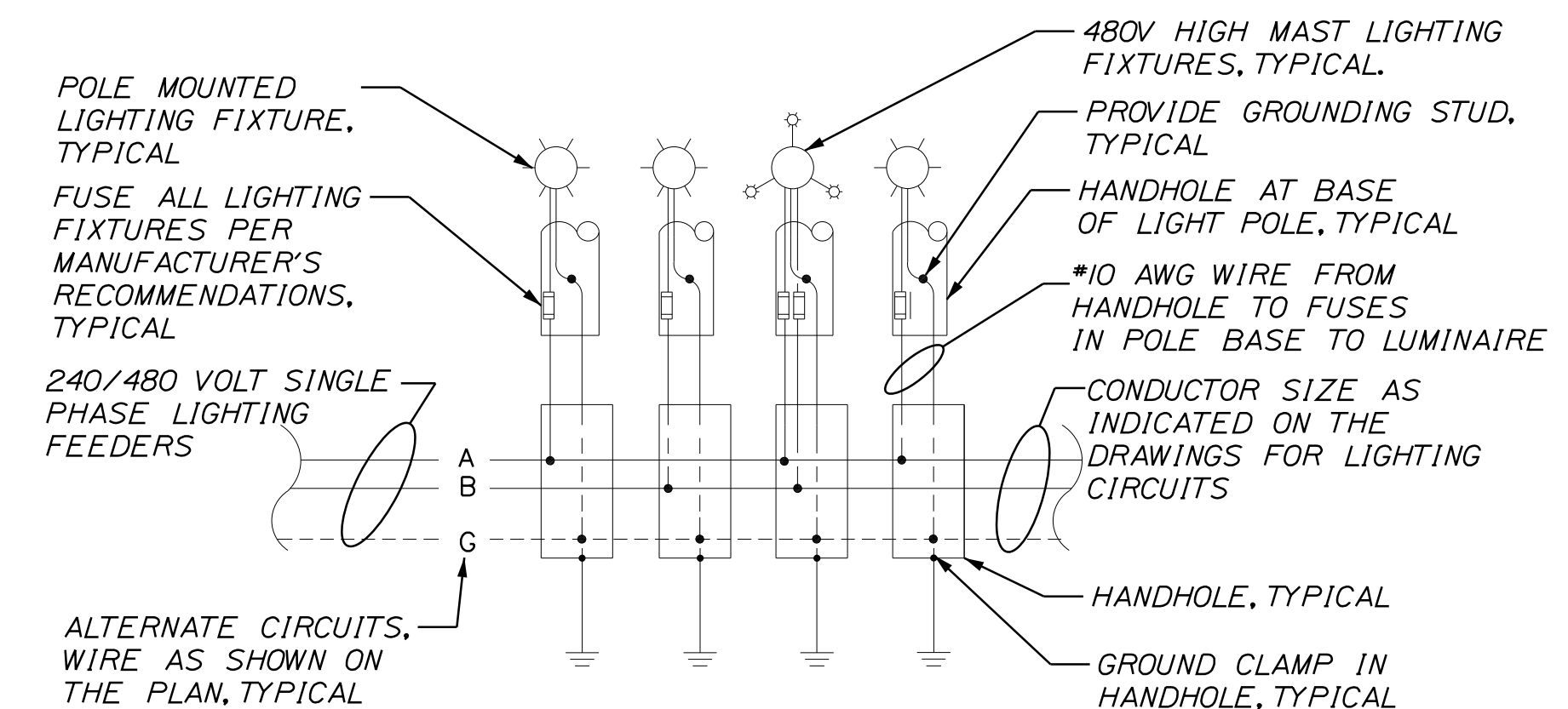
1. THERE SHALL BE AN INDIVIDUAL PHOTOCCELL FOR EACH LUMINAIRE.
2. LIGHTING FIXTURE VOLTAGE SHALL BE 208 VOLTS ON PANELS LN & LS, 240V ON PANEL LD. HIGHMAST FIXTURES ON PANEL LD SHALL BE 480V.
3. LIGHTING FIXTURES SHALL BE IES FULL CUTOFF, LIGHT EMITTING DIODE (LED) FIXTURES.
4. ALL FIXTURES SHALL BE 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, TYPE 3 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.
5. 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-21-11 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.
6. CONDUIT SHALL BE 3" MINIMUM, PVC SCHEDULE 80. MINIMUM BURIAL DEPTH FOR CONDUIT SHALL BE 36" TO THE TOP OF THE CONDUIT.
7. A JUNCTION BOX SHALL BE INSTALLED AT EACH POLE. THE WIRING IN CONDUITS SHALL BE CONTINUOUS BETWEEN JUNCTION BOXES WITHOUT RUNNING SPLICES IN CONDUITS. JUNCTION BOXES SHALL BE LOCATED TO BE OUTSIDE THE FLOW LINES OF DITCHES.
8. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL FURNISH TO THE MTA A SET OF AS-BUILT PLANS FOR FUTURE REFERENCE AND SYSTEM MAINTENANCE.
9. 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.
10. PAYMENT UNDER ITEM 634.231, CONVENTIONAL LIGHT STANDARD WITH LED FIXTURE, WILL INCLUDE BUT NOT BE LIMITED TO NEW POLES, LED FIXTURE, WIRING, AND BREAKAWAY DEVICES.
11. LIGHTING SERVICE PANEL SHALL BE MARKED WITH ARC FLASH HAZARD TYPE 1, 2, 3 OR 4 AND THE APPROPRIATE PPE REQUIRED AS DETERMINED BY THE ARC FLASH STUDY TO BE CONDUCTED BY THE CONTRACTOR.
12. 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.
13. WIRE SHALL BE STRANDED COPPER XHHW-2, SIZE AS NOTED ON THE PLANS.
14. FOUNDATIONS SHALL BE PRECAST 24 INCH DIAMETER BY 7' HEIGHT FOUNDATIONS.
15. 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 INCIDENTAL TO THE OTHER HIGHWAY LIGHTING ITEMS. ALL TEMPORARY LIGHTING SHALL BE PROTECTED OR LOCATED OUTSIDE OF THE CLEAR ZONE.
16. AT EACH POLE, CONTRACTOR SHALL PROVIDE 18" OF EXTRA WIRE SLACK.
17. ALL REMOVED AND RESET LIGHT STANDARDS SHALL HAVE BREAKAWAY BASES/COUPLINGS.
18. FOR ALL REMOVED AND RESET LIGHT STANDARDS, THE CONTRACTOR SHALL VERIFY THE EXISTING DRIVER TYPE. IF THE DRIVER TYPE IS NOT MULTI-VOLT RATED, THE CONTRACTOR SHALL PROVIDE MULTI-VOLT DRIVER. THIS SHALL BE INCIDENTAL TO PAY ITEM 634.208 REMOVE AND RESET LIGHT STANDARD.
19. FOR ALL POLES TO BE RELOCATED, REMOVE ALL EXISTING WIRING FROM THE EXISTING POLE AND REPLACE PER THE TYPICAL WIRING DETAIL ON SHEET "LD-1".
20. FOR ALL CONDUIT RUNS FROM HANDHOLE TO POLE, THE CONTRACTOR SHALL INSTALL 2" WITH 2#10 AND 1#10GND.

CALCULATION SUMMARY							
PROJECT: ROADWAY LIGHTING CALCULATIONS							
LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
NB- PARKING	ILLUMINANCE	FC	2.00	3.7	1.1	1.82	3.36
SB- TOLL APPROACH & DEPARTURE AREA	ILLUMINANCE	FC	1.75	5.3	0.4	4.38	13.25
SB- RAMP 36 EXIT CD	ILLUMINANCE	FC	1.24	1.6	0.1	12.40	16.00
SB- RAMP 36 EXIT	ILLUMINANCE	FC	0.90	1.6	0.0	N.A.	N.A.
SB- PARKING	ILLUMINANCE	FC	3.67	5.5	0.8	4.59	6.88
SB- ON RAMP MERGE	ILLUMINANCE	FC	1.18	1.6	0.6	1.97	2.67
SB- ON RAMP 36 ENTRANCE	ILLUMINANCE	FC	0.92	1.8	0.0	N.A.	N.A.
SB- MERGE CD	ILLUMINANCE	FC	1.17	1.7	0.3	3.90	5.67
SB- INTERSECTION	ILLUMINANCE	FC	3.22	5.6	0.9	3.58	6.22
NB- TOLL APPROACH & DEPARTURE AREA	ILLUMINANCE	FC	2.98	21.2	0.3	9.93	70.67
NB- RAMP 36 EXIT	ILLUMINANCE	FC	0.01	0.1	0.0	N.A.	N.A.
NB- RAMP 35 EXIT	ILLUMINANCE	FC	1.26	1.6	0.4	3.15	4.00
NB- ON RAMP ENTRANCE	ILLUMINANCE	FC	1.26	1.6	0.4	3.15	4.00
NB- ON RAMP 36 ENTRANCE	ILLUMINANCE	FC	1.14	1.6	0.1	11.40	16.00
NB- INTERSECTION	ILLUMINANCE	FC	2.65	4.2	0.7	3.79	6.00

ROADWAY LUMINAIRE SCHEDULE											
MARK ID	MANUFACTURER	CATALOG NUMBER	COLOR	VOLTAGE					VOLTAGE	LLF	WATTS
				TYPE	NOMINAL	LUMENS	CCT(K)	IES TYPE			
A	AMERICAN ELECTRIC	ATB0-P304-MVOLT-R3-NL-P7-SH	GRAY	LED	17714	18230	4000	III	MULTI	0.67	124
POLE A	SEE SPECIFICATIONS		GRAY	-	-	-	-	-	-	-	-
B	AMERICAN ELECTRIC	ATB2-P603-MVOLT-R3-NL-P7-SH	GRAY	LED	33062	33990	4000	III	MULTI	0.67	233
POLE B	SEE SPECIFICATIONS		GRAY	-	-	-	-	-	-	-	-



**208 VOLT - IPH CIRCUITING ONE LINE DIAGRAM**  
NOT TO SCALE



**240/480 VOLT - IPH CIRCUITING ONE LINE DIAGRAM**  
NOT TO SCALE

Date: 10/17/2022  
Filename: ...MSTA...Detail-Lighting\_02.dgn

Scale:

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	MRC	10\22	Checked	PJV	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

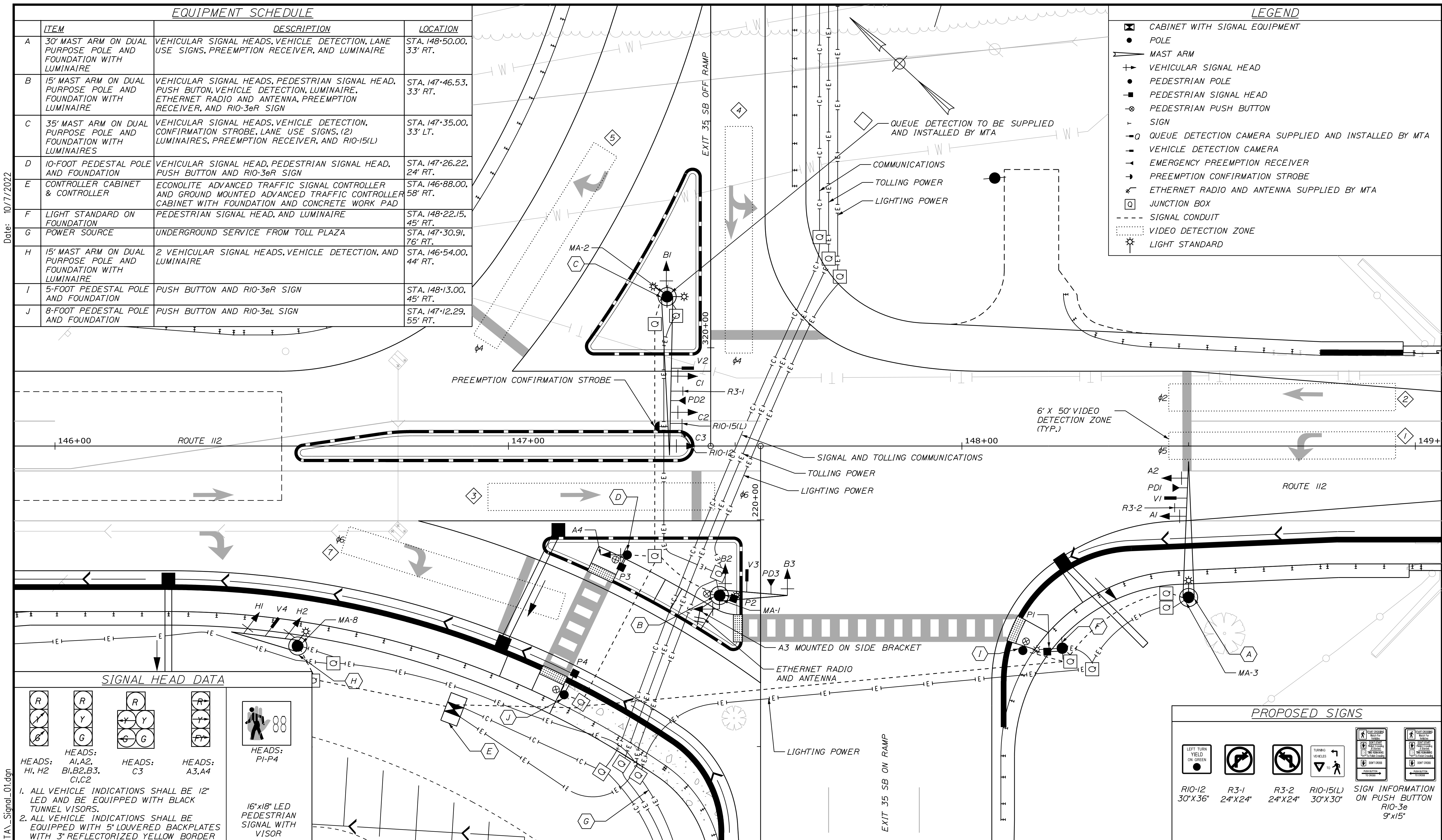
STANTEC CONSULTING SERVICES INC.  
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FAX (207) 883-3376

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
POWER AND COMMUNICATION NOTES,  
SCHEDULES, AND DETAILS

SHEET NUMBER: LD-2  
CONTRACT: 2022.07  
266 OF 735



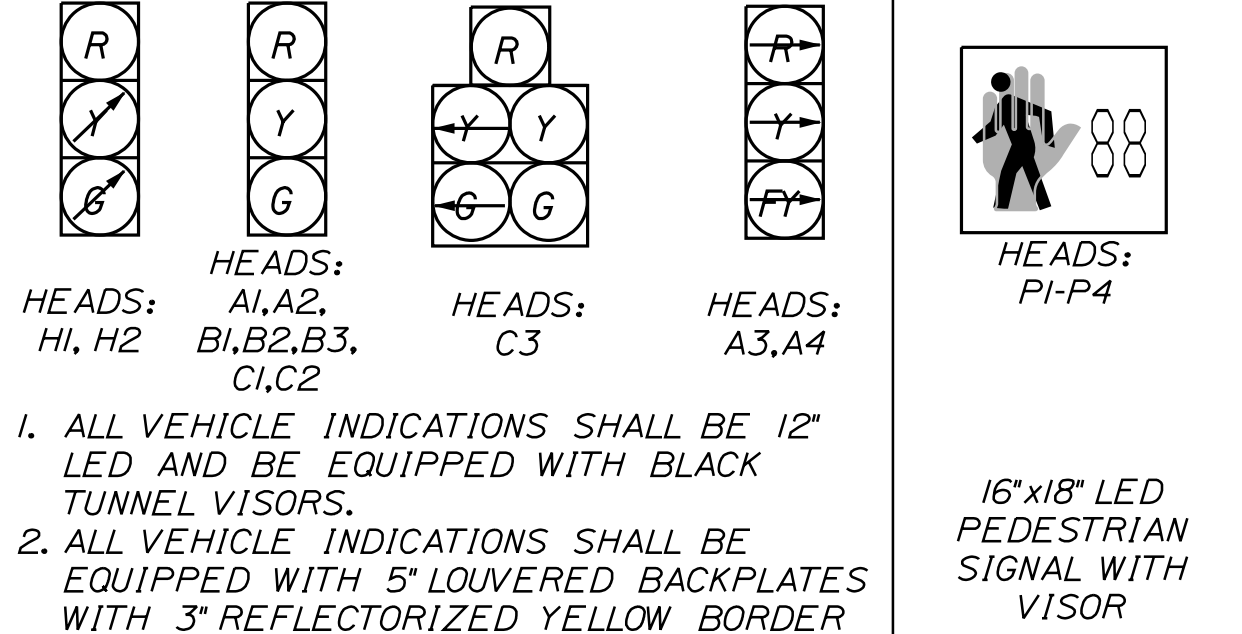
**LEGEND**

- ☒ CABINET WITH SIGNAL EQUIPMENT
- POLE
- ┆ MAST ARM
- VEHICULAR SIGNAL HEAD
- PEDESTRIAN POLE
- ┆ PEDESTRIAN SIGNAL HEAD
- ⊕ PEDESTRIAN PUSH BUTTON
- ┆ SIGN
- QUEUE DETECTION CAMERA SUPPLIED AND INSTALLED BY MTA
- VEHICLE DETECTION CAMERA
- EMERGENCY PREEMPTION RECEIVER
- PREEMPTION CONFIRMATION STROBE
- ⊕ ETHERNET RADIO AND ANTENNA SUPPLIED BY MTA
- ☐ JUNCTION BOX
- - - SIGNAL CONDUIT
- ⬡ VIDEO DETECTION ZONE
- ☼ LIGHT STANDARD

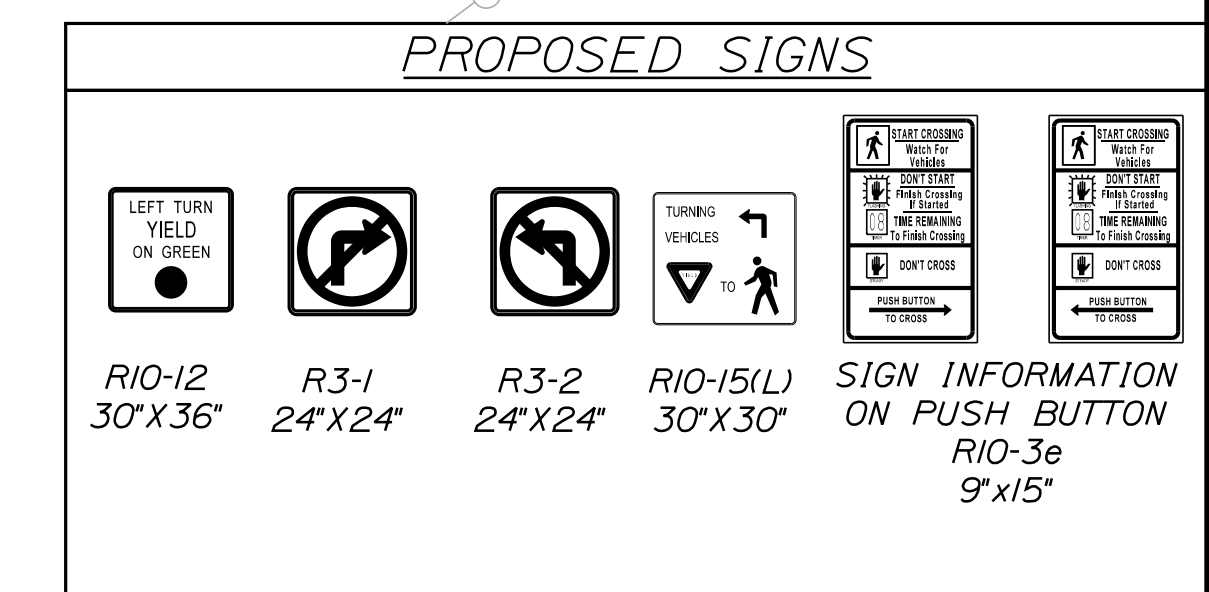
**EQUIPMENT SCHEDULE**

ITEM	DESCRIPTION	LOCATION
A	30' MAST ARM ON DUAL PURPOSE POLE AND FOUNDATION WITH LUMINAIRE	VEHICULAR SIGNAL HEADS, VEHICLE DETECTION, LANE USE SIGNS, PREEMPTION RECEIVER, AND LUMINAIRE STA. 148+50.00, 33' RT.
B	15' MAST ARM ON DUAL PURPOSE POLE AND FOUNDATION WITH LUMINAIRE	VEHICULAR SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, VEHICLE DETECTION, LUMINAIRE, ETHERNET RADIO AND ANTENNA, PREEMPTION RECEIVER, AND RIO-3eR SIGN STA. 147+46.53, 33' RT.
C	35' MAST ARM ON DUAL PURPOSE POLE AND FOUNDATION WITH LUMINAIRE	VEHICULAR SIGNAL HEADS, VEHICLE DETECTION, CONFIRMATION STROBE, LANE USE SIGNS, (2) LUMINAIRES, PREEMPTION RECEIVER, AND RIO-15(L) STA. 147+35.00, 33' LT.
D	10-FOOT PEDESTAL POLE AND FOUNDATION	VEHICULAR SIGNAL HEAD, PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND RIO-3eR SIGN STA. 147+26.22, 24' RT.
E	CONTROLLER CABINET & CONTROLLER	ECONOLITE ADVANCED TRAFFIC SIGNAL CONTROLLER AND GROUND MOUNTED ADVANCED TRAFFIC CONTROLLER CABINET WITH FOUNDATION AND CONCRETE WORK PAD STA. 146+88.00, 58' RT.
F	LIGHT STANDARD ON FOUNDATION	PEDESTRIAN SIGNAL HEAD, AND LUMINAIRE STA. 148+22.15, 45' RT.
G	POWER SOURCE	UNDERGROUND SERVICE FROM TOLL PLAZA STA. 147+30.91, 76' RT.
H	15' MAST ARM ON DUAL PURPOSE POLE AND FOUNDATION WITH LUMINAIRE	2 VEHICULAR SIGNAL HEADS, VEHICLE DETECTION, AND LUMINAIRE STA. 146+54.00, 44' RT.
I	5-FOOT PEDESTAL POLE AND FOUNDATION	PUSH BUTTON AND RIO-3eR SIGN STA. 148+13.00, 45' RT.
J	8-FOOT PEDESTAL POLE AND FOUNDATION	PUSH BUTTON AND RIO-3eL SIGN STA. 147+12.29, 55' RT.

**SIGNAL HEAD DATA**



- ALL VEHICLE INDICATIONS SHALL BE 12" LED AND BE EQUIPPED WITH BLACK TUNNEL VISORS.
- ALL VEHICLE INDICATIONS SHALL BE EQUIPPED WITH 5" LOUVERED BACKPLATES WITH 3" REFLECTORIZED YELLOW BORDER



Scale: 1" = 20'

No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	EGD	10\22	Checked	PJV	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS SACO (EXITS 35 & 36)**

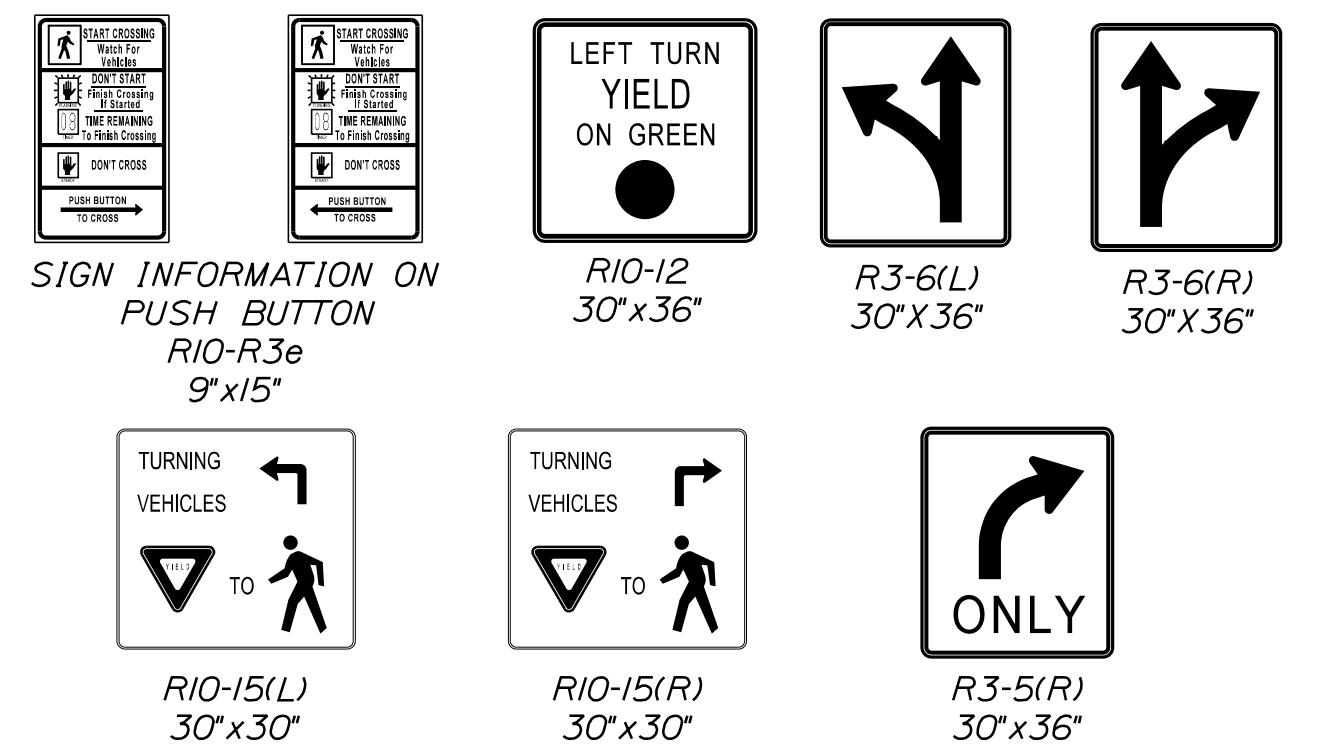
**SIGNAL PLAN 1**

SHEET NUMBER: TS-01  
267 OF 735

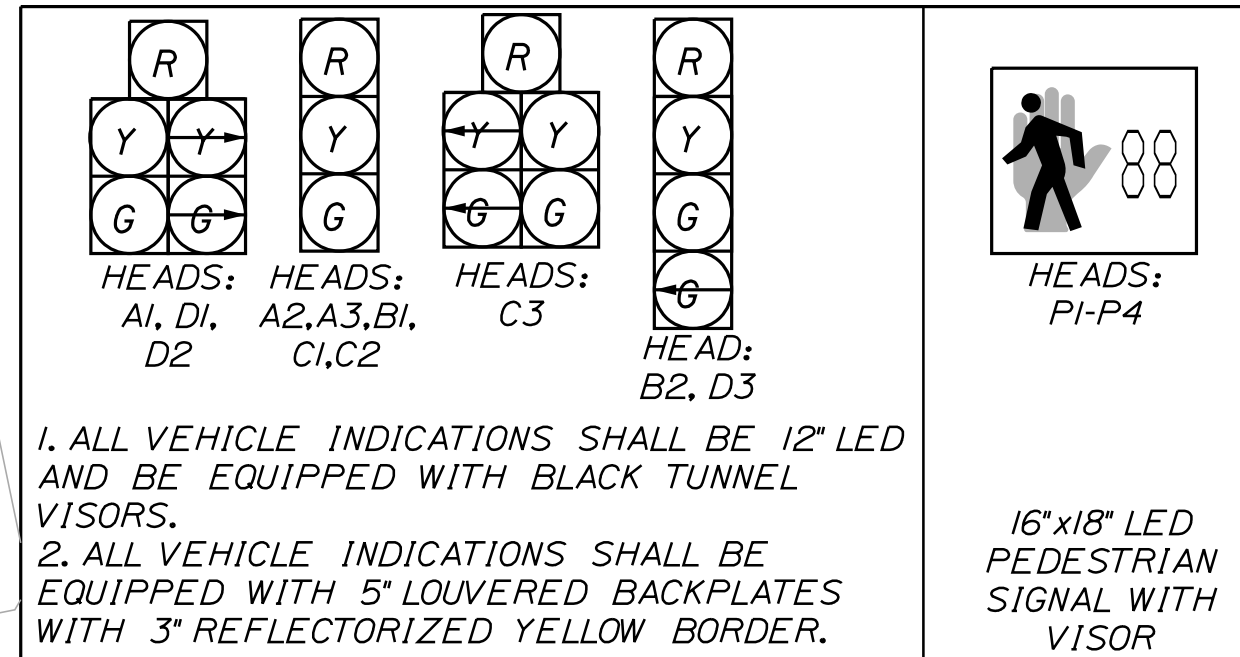
CONTRACT: 2022.07

Date: 10/7/2022  
Filename: ...100\HIGHWAY\MSTA...Signal\_01.dgn

PROPOSED SIGNS



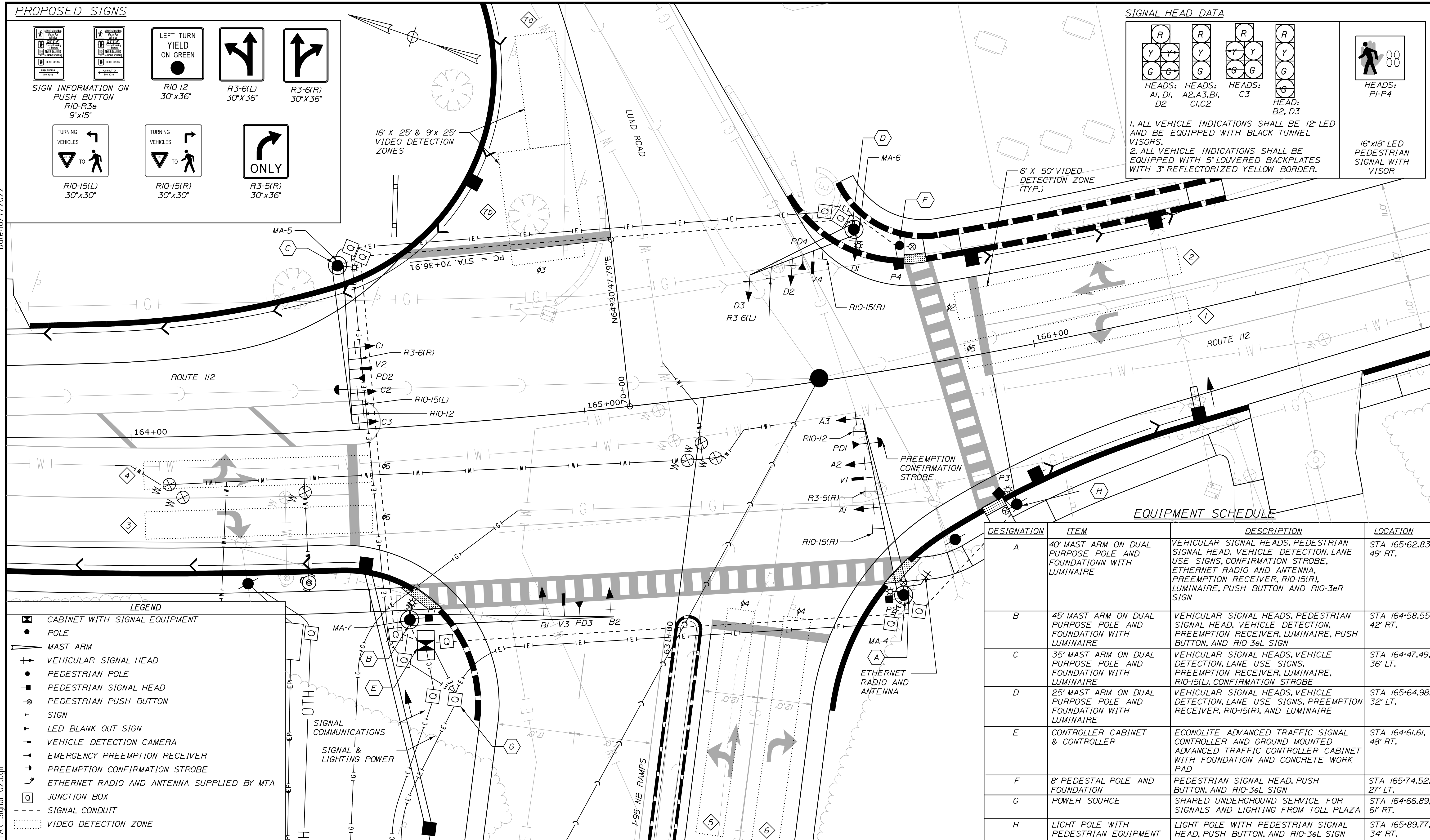
SIGNAL HEAD DATA



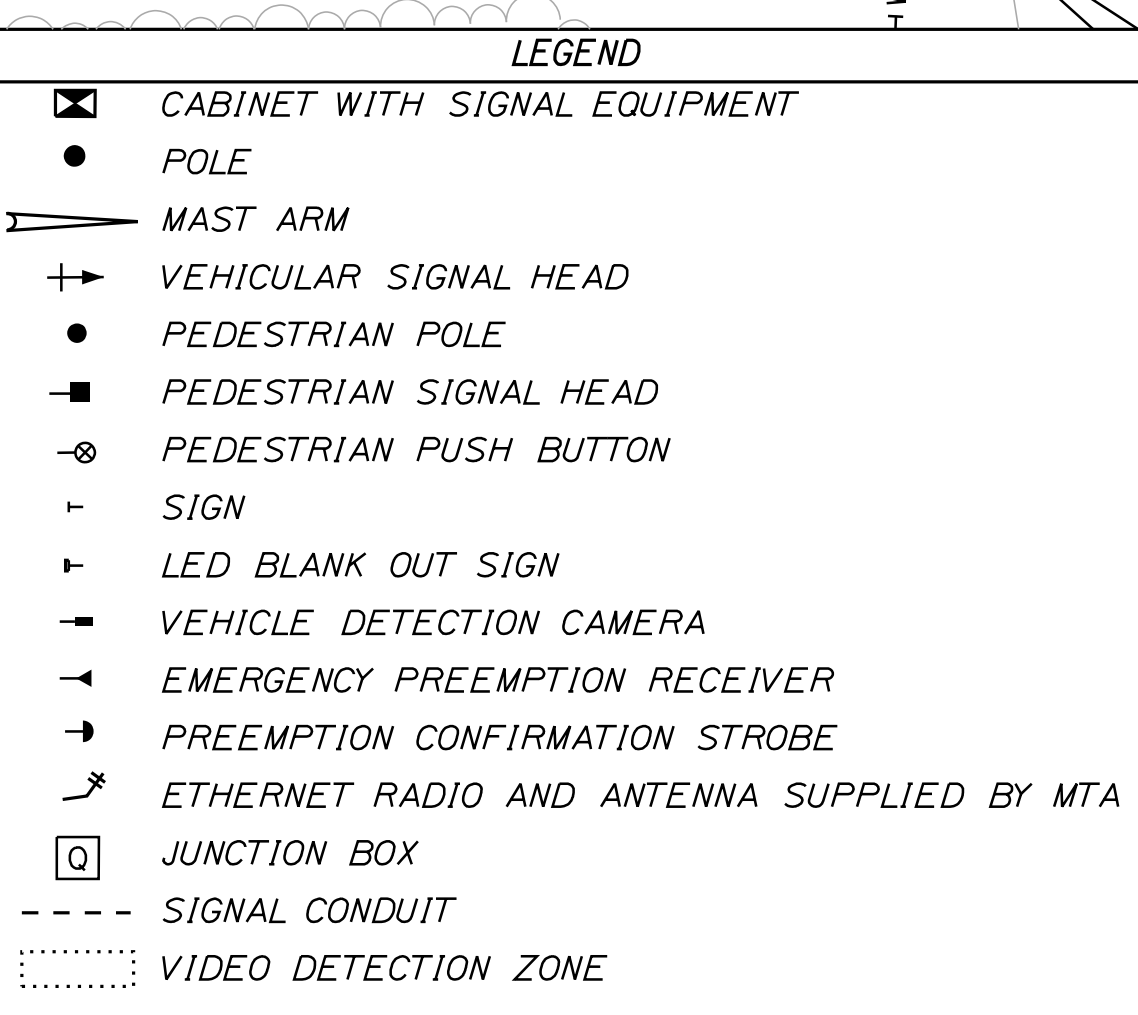
1. ALL VEHICLE INDICATIONS SHALL BE 12" LED AND BE EQUIPPED WITH BLACK TUNNEL VISORS.  
 2. ALL VEHICLE INDICATIONS SHALL BE EQUIPPED WITH 5" LOUVERED BACKPLATES WITH 3" REFLECTORIZED YELLOW BORDER.

16"x18" LED PEDESTRIAN SIGNAL WITH VISOR

Date: 10/7/2022



DESIGNATION	ITEM	DESCRIPTION	LOCATION
A	40' MAST ARM ON DUAL PURPOSE POLE AND FOUNDATION WITH LUMINAIRE	VEHICULAR SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, VEHICLE DETECTION, LANE USE SIGNS, CONFIRMATION STROBE, ETHERNET RADIO AND ANTENNA, PREEMPTION RECEIVER, RIO-15(R), LUMINAIRE, PUSH BUTTON AND RIO-3eR SIGN	STA 165+62.83, 49' RT.
B	45' MAST ARM ON DUAL PURPOSE POLE AND FOUNDATION WITH LUMINAIRE	VEHICULAR SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, VEHICLE DETECTION, PREEMPTION RECEIVER, LUMINAIRE, PUSH BUTTON, AND RIO-3eL SIGN	STA 164+58.55, 42' RT.
C	35' MAST ARM ON DUAL PURPOSE POLE AND FOUNDATION WITH LUMINAIRE	VEHICULAR SIGNAL HEADS, VEHICLE DETECTION, LANE USE SIGNS, PREEMPTION RECEIVER, LUMINAIRE, RIO-15(L), CONFIRMATION STROBE	STA 164+47.49, 36' LT.
D	25' MAST ARM ON DUAL PURPOSE POLE AND FOUNDATION WITH LUMINAIRE	VEHICULAR SIGNAL HEADS, VEHICLE DETECTION, LANE USE SIGNS, PREEMPTION RECEIVER, RIO-15(R), AND LUMINAIRE	STA 165+64.98, 32' LT.
E	CONTROLLER CABINET & CONTROLLER	ECONOLITE ADVANCED TRAFFIC SIGNAL CONTROLLER AND GROUND MOUNTED ADVANCED TRAFFIC CONTROLLER CABINET WITH FOUNDATION AND CONCRETE WORK PAD	STA 164+61.61, 48' RT.
F	8' PEDESTAL POLE AND FOUNDATION	PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, AND RIO-3eL SIGN	STA 165+74.52, 27' LT.
G	POWER SOURCE	SHARED UNDERGROUND SERVICE FOR SIGNALS AND LIGHTING FROM TOLL PLAZA	STA 164+66.89, 61' RT.
H	LIGHT POLE WITH PEDESTRIAN EQUIPMENT	LIGHT POLE WITH PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, AND RIO-3eL SIGN	STA 165+89.77, 34' RT.



Scale: 10 0 10 20  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	EGD	10\22	Checked	PJV	10\22
Drawn	KBK	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

**SIGNAL PLAN 2**

SHEET NUMBER: TS-02  
 268 OF 735

CONTRACT: 2022.07

Filename: ...000\HIGHWAY\MSTA...Signal\_02.dgn

**TRAFFIC SIGNAL NOTES:**

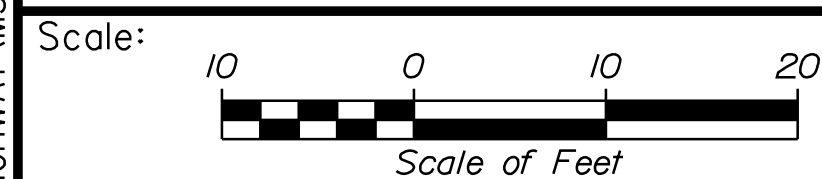
1. THE TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE A MODEL OF THE ECONOLITE ADVANCED TRAFFIC CONTROLLER CABINET (ATCC) PART NUMBER ATCC 1032. THE ATCC SHALL BE COMPLIANT WITH ALL APPLICABLE SECTIONS OF THE ATC 5301V02 STDHLD (MOST CURRENT REVISION) STANDARDS PUBLICATIONS FOR ATCC. THE TRAFFIC SIGNAL CONTROLLER SHALL BE A RACK-MOUNT ECONOLITE COBALT ADVANCED TRAFFIC SIGNAL CONTROLLER (ATC, PART COBRM21130110000). ANCHOR BOLTS FOR CABINET SHALL BE SET BY TEMPLATE AND CAST IN FOUNDATION. DRILLING AND GROUTING OF ANCHOR BOLTS SHALL NOT BE PERMITTED.
2. ALL SIGNAL HEADS SHALL BE EQUIPPED WITH LED LENSES 12 INCHES IN DIAMETER WITH 5-INCH LOUVERED BACK PLATES AND 3-INCH RETROREFLECTIVE YELLOW BORDER. THE LED LENSES SHALL BE MANUFACTURED BY LEOTEK OR APPROVED EQUAL AND THE BACKPLATES SHALL BE COMPATIBLE WITH THE PROPOSED SIGNAL HOUSINGS.
3. ALL NEW SIGNAL HEADS SHALL BE FIX MOUNTED TO MAST ARMS WITH PELCO "ASTRO-BRAC" ASTROBRACKETS OR APPROVED EQUAL.
4. FIBER OPTIC CABLE SPLICES SHALL BE MADE IN THE PATCH PANELS MEETING MTA SPECIFICATIONS.
5. THE BOTTOM OF THE HOUSING OF NEW SIGNAL FACES SHALL BE AT LEAST 16 FEET BUT NOT MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
6. THREE COPIES OF THE AS-BUILT PLANS, WIRING DIAGRAMS, BOX PRINTS, AND EQUIPMENT MANUALS SHALL BE LEFT IN EACH OF THE CONTROLLER CABINETS. ONE DIGITAL COPY OF THE REDLINED CABINET PRINTS TO BE PROVIDED TO MTA.
7. TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER AND ORDER THAT WILL CAUSE THE MINIMUM DISRUPTION TO TRAFFIC.
8. THE ENGINEER SHALL HAVE THE RIGHT AND AUTHORITY TO DETERMINE THE ACCEPTABILITY OF WORK AND MATERIALS IN PROGRESS OR COMPLETED AND SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIALS WHICH DO NOT CONFORM, IN ITS SOLE OPINION, TO THE PLANS OR SPECIFICATIONS. THIS INCLUDES TRAFFIC SIGNAL CABINET FOUNDATIONS.
9. ALL SIGNING, SIGNAL, AND STRIPING MATERIALS AND PLACEMENT SHALL CONFORM TO THE 2014 MAINE DOT STANDARD SPECIFICATIONS, MTA SPECIAL PROVISIONS, MOST RECENT REVISIONS OF THE MAINE DOT STANDARD DETAILS, AND WITH THE FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
10. ANY RELOCATIONS OR ADJUSTMENTS OF THE UTILITY FACILITIES WILL BE MADE BY THE RESPECTIVE UTILITIES IN COORDINATION WITH THE WORK OF THE CONTRACTOR.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY OPENING PERMITS.
12. MAINTENANCE OF TRAFFIC SHALL BE PER MUTCD.
13. DRIVEWAY AND PEDESTRIAN ACCESSES SHALL BE MAINTAINED AT ALL TIMES.
14. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, MAINE TURNPIKE AUTHORITY, AND THE CITY OF SACO WITH A SCHEDULE OF WORK FOR CONSTRUCTING THE TRAFFIC IMPROVEMENTS PRIOR TO THE COMMENCEMENT OF WORK.
15. ALL MATERIAL SCHEDULES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL PREPARE THEIR OWN MATERIAL SCHEDULES BASED UPON HIS PLAN REVIEW. ALL SCHEDULES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR PERFORMING WORK.
16. ETHERNET RADIOS AND ANTENNAS TO BE PROVIDED BY THE AUTHORITY FOR COMMUNICATION BETWEEN THE GROUND MOUNTED DYNAMIC MESSAGE SIGNS AND THE TRAFFIC SIGNAL AND THEIR FIBER ETHERNET SWITCHES. CONTRACTOR SHALL INSTALL ANTENNA ON THE MAST ARM POLES AS NOTED ON PLANS. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL CABLING BETWEEN RADIO ANTENNA AND FIBER ETHERNET SWITCH IN CONTROLLER CABINET.
17. VEHICLE DETECTION SHALL BE FLIR TRAFISENSE2 DUAL VEHICLE-BASED DETECTION SYSTEM. THE SYSTEM SHALL INTERFACE WITH THE SIGNAL CONTROLLER VIA A BPL2 EDGE CARD AND SDLC. THE VEHICLE DETECTION SYSTEM SHALL BE PROVIDED WITH AN INTERFACE FOR COMPATIBILITY WITH A 48 VDC CABINET. AT LOCATIONS WHERE VEHICLE DETECTORS ARE INSTALLED ON TRAFFIC SIGNAL MAST ARMS, THE RESIDENT RESERVES THE RIGHT TO DIRECT THE CONTRACTOR TO FIELD ADJUST THE VEHICLE DETECTOR LOCATION FOR CONDITIONS IDENTIFIED DURING OR AFTER CONSTRUCTION. NO ADDITIONAL COSTS WILL BE ALLOWED FOR FIELD ADJUSTING THE LOCATIONS OR REWIRING. THE CONTRACTOR SHALL NOTIFY THE RESIDENT IF LOCATIONS IDENTIFIED IN THE PLANS NEED TO BE REVISED DUE TO POTENTIAL GLARE OR FOR FIELD-VERIFIED OPTIMAL DETECTION ANGLES OR DISTANCES.
18. PAYMENT FOR THE TRAFFIC SIGNAL WORK SHALL BE AS OUTLINED IN THE SPECIAL PROVISIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING RED-LINE AS-BUILT DRAWINGS AND A CAD FILE OF THE FINAL WORK TO THE ENGINEER. THOSE DRAWINGS SHALL BE ON A CLEAN SET OF PLANS SHOWING ALL CHANGES OR MODIFICATIONS TO THE BID PLANS. PAYMENT FOR THIS EFFORT WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS. FINAL PAYMENT FOR THIS PROJECT WILL NOT BE MADE UNTIL THESE PLANS ARE RECEIVED BY THE ENGINEER.
19. EXACT LOCATION OF PROPOSED POLES, CABINET FOUNDATIONS, AND PEDESTAL POLES TO BE VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION.
20. THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT WILL REQUIRE THE LEAST AMOUNT OF DOWNTIME TO THE TRAFFIC SIGNAL OPERATIONS.
21. OPTICAL PREEMPTION EQUIPMENT:
  - THE OPTICAL PREEMPTION EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE SIGNAL CONTROLLER EQUIPMENT.
  - PREEMPTION RECEIVERS SHALL BE OPTICOM MODEL 700 SERIES, AS REQUIRED.
  - OPTICAL PREEMPTION EQUIPMENT SHALL BE FULLY COMPATIBLE WITH THE EMITTER IN USE IN THE CITY OF SACO.
  - CONTRACTOR TO COORDINATE WITH MTA AND SACO FIRE DEPARTMENT ON FINAL LOCATION OF OPTICAL PREEMPTION EQUIPMENT.
  - OPTICAL DETECTOR CABLE SHALL RUN UNSPLICED FROM THE OPTICAL DETECTOR HEAD TO THE CONTROLLER CABINET.
  - IT IS EXPECTED THAT THE COMPLETE SYSTEM SHALL OPERATE FULLY FUNCTIONAL FOR A PERIOD OF 30 CONSECUTIVE DAYS WITHOUT MALFUNCTION. MINOR MALFUNCTIONS OF INOPERABILITY NOT THE FAULT OF THE CONTRACTOR, AS JUDGED BY THE ENGINEER, ARE NOT INCLUDED IN THE 30-DAY PERIOD. IF THE SYSTEM FAILS TO OPERATE AS INTENDED OR THE SUPPLIER'S CLAIMS, THE MALFUNCTION SHALL BE CORRECTED BY THE CONTRACTOR AT ITS COST AND A NEW 30-DAY TESTING PERIOD SHALL BEGIN. THIS PROCESS SHALL CONTINUE UNTIL A COMPLETELY OPERABLE SYSTEM IS DEMONSTRATED FOR A CONSECUTIVE 30-DAY PERIOD.
  - ACCEPTANCE TESTING MUST DEMONSTRATE TO THE ENGINEER'S REASONABLE SATISFACTION THAT THE HARDWARE AND LICENSED SOFTWARE FUNCTION IN ACCORDANCE WITH THE SPECIFICATIONS, REQUIREMENTS, THROUGH-PUTS, FUNCTIONALITIES, PERFORMANCE CRITERIA OR OTHER BENEFITS STATED IN DOCUMENTATION PROMOTIONAL MATERIALS, PROPOSALS, AND/OR DEMONSTRATIONS GIVEN TO THE MTA.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL STRUCTURAL DESIGN OF THE SIGNAL SUPPORT STRUCTURES AND THE CONNECTION OF THE SUPPORT STRUCTURES TO THEIR FOUNDATIONS. ALL DESIGNS SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. DESIGN COMPUTATIONS, INCLUDING DESIGN LOADS (OVERTURNING MOMENT, TORSION, SHEAR FORCE, AND AXIAL LOAD) AT THE TOP OF THE FOUNDATIONS, AND SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE AUTHORITY. NO MATERIALS SHALL BE ORDERED OR FABRICATED UNTIL THE DESIGN HAS BEEN APPROVED. REFER TO TRAFFIC SIGNAL FOUNDATION DETAILS FOR SIGNAL STRUCTURE DESIGN CRITERIA.
23. FOUNDATIONS SHALL CONSIST OF CAST-IN-PLACE REINFORCED CONCRETE DRILLED SHAFTS; ONE NEW DRILLED SHAFT PER MAST ARM OR DUAL PURPOSE POLE AS SET FORTH IN SPECIAL PROVISION 643. ACTUAL DESIGN LOADS AT THE TOP OF THE FOUNDATION THAT ARE PROVIDED BY THE CONTRACTOR AS PART OF THEIR STRUCTURAL SUBMITTAL WILL BE USED BY THE ENGINEER TO CHECK THE SPECIFIED SIZE OF THE DRILLED SHAFTS.
24. 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 AT THE CONSTRUCTION SITE. THE MTA WILL NOT BE RESPONSIBLE FOR THE BIDDERS' OR CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION. THE BORING LOGS CONTAINED IN THE GEOTECHNICAL ENGINEERING REPORT WITH THIS CONTRACT PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN THE BORING LOCATIONS.
25. SIGNAL SHALL BE SET TO FLASHING PRIOR TO BECOMING FULLY OPERATIONAL AS NOTED IN SP 107.4.6.

**EMERGENCY VEHICLE PREEMPTION NOTES:**

1. EMERGENCY VEHICLE PREEMPTION SIGNALS SHALL BE TRANSMITTED BY OPTICAL EMITTERS (PROVIDED BY OTHERS) MOUNTED IN EMERGENCY VEHICLES AND RECEIVED BY OPTICAL DETECTORS LOCATED AT THE INTERSECTION.
2. PREEMPTION SIGNALS SHALL BE SERVICED ON A PRIORITY BASIS WITH RECEIVERS ASSIGNED DESCENDING PRIORITIES (PD1-HIGHEST, PD4-LOWEST).
3. IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL HOLD OR ADVANCE TO AND HOLD THE EMERGENCY ACTIVE PHASE GREEN FOR A MINIMUM OF 10 SECONDS OR UNTIL THE PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME PREEMPTION PHASE CLEARANCE AND SERVICE SUBSEQUENT EMERGENCY ACTIVE PHASES AS NECESSARY. AT THE COMPLETION OF THE PREEMPTION CYCLE THE CONTROLLER SHALL TIME THE PREEMPTION CLEARANCE AND RESUME NORMAL SIGNAL OPERATION.
4. MINIMUM GREEN, NORMAL VEHICLE CLEARANCE AND MINIMUM PEDESTRIAN CLEARANCE SHALL BE PROVIDED ON PHASES THAT ARE TO BE TERMINATED BY PREEMPTION DEMAND.
5. CONFIRMATION STROBES SHALL BE ILLUMINATED ONLY WHEN EMERGENCY VEHICLE PREEMPTION GREEN IS ON.

Date: 10/17/2022

Filename: ...000.HIGHWAY\MSTA1...Signal\_03.dgn



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	EGD	10\22	Checked	PJV	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35& 36)

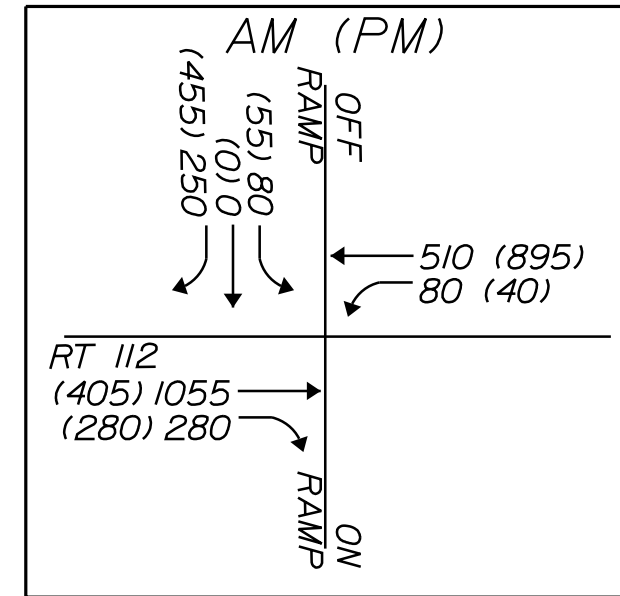
**SIGNAL NOTES**

SHEET NUMBER: TS-03  
CONTRACT: 2022.07  
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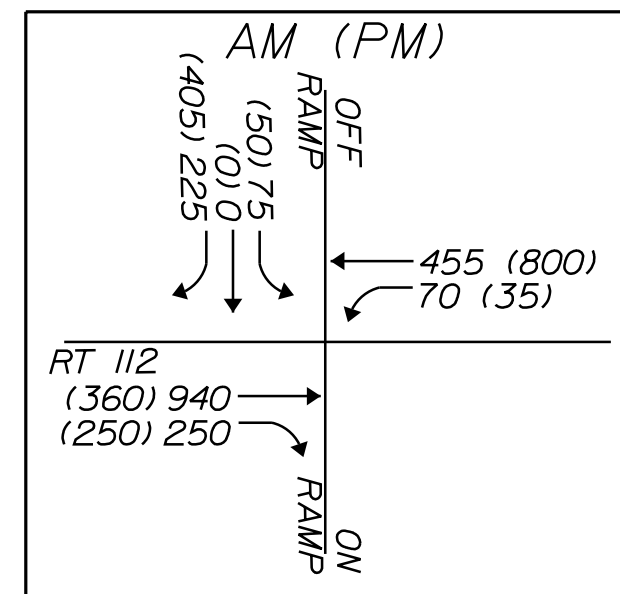
EXIT 35 SB INTERSECTION

EXIT 35 NB INTERSECTION

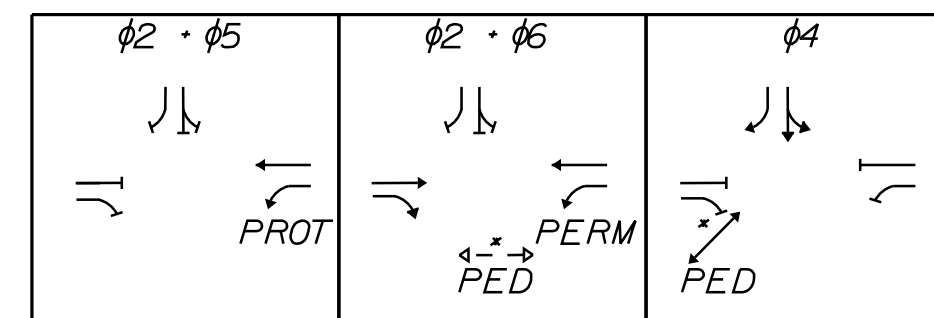
2040 DESIGN VOLUMES



2030 TIMING VOLUMES

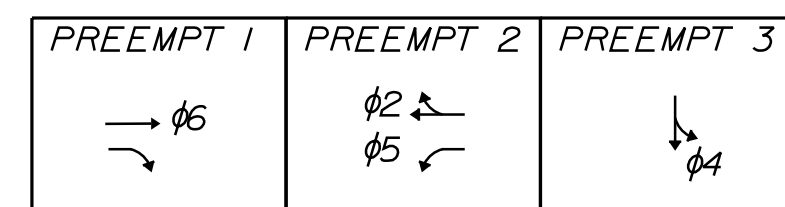


PREFERENTIAL SIGNAL PHASING DIAGRAM

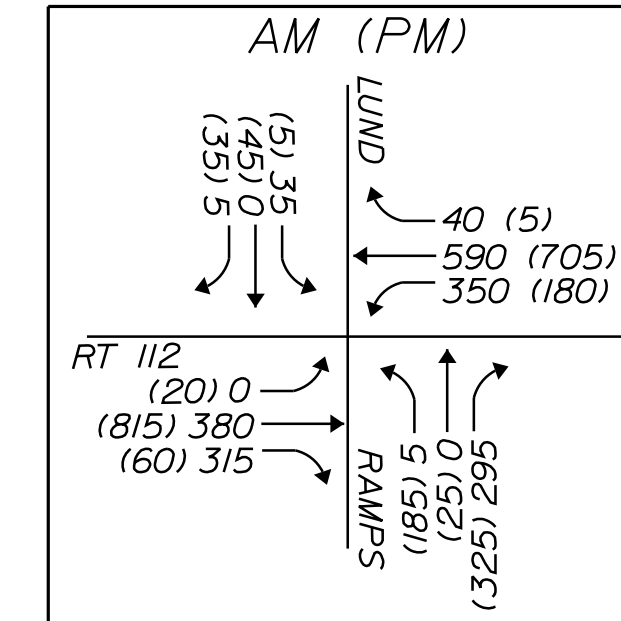


\* UPON PEDESTRIAN ACTUATION

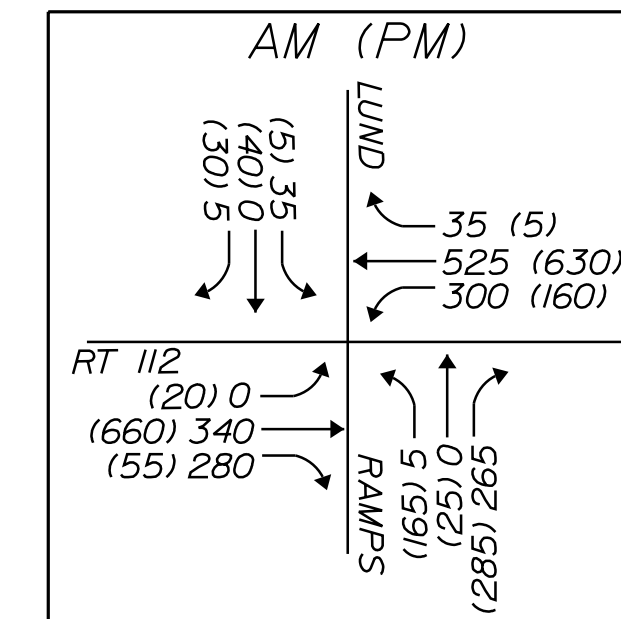
EMERGENCY VEHICLE PREEMPTION PHASING DIAGRAM



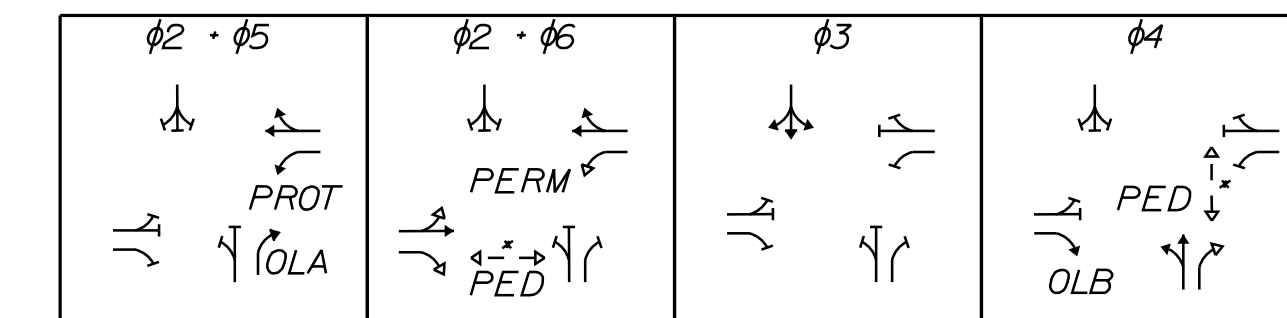
2040 DESIGN VOLUMES



2030 TIMING VOLUMES

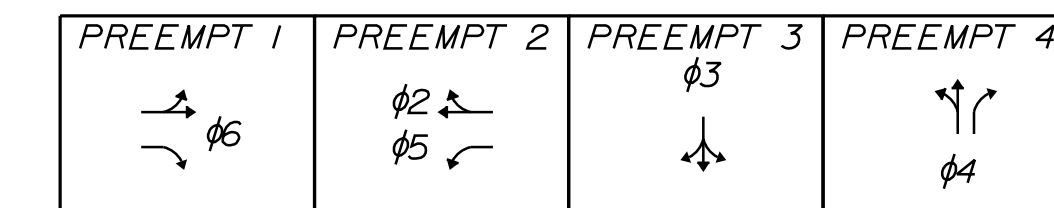


PREFERENTIAL SIGNAL PHASING DIAGRAM



\* UPON PEDESTRIAN ACTUATION

EMERGENCY VEHICLE PREEMPTION PHASING DIAGRAM



SIGNAL TIMING SCHEDULE

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	TIME OF DAY
ROADWAY	-	WB TH	-	SB LT-TH	WB LT	EB TH/RT	-	-	
MINIMUM GREEN	-	10	-	8	5	10	-	-	
EXTENSION	-	3	-	3	3	3	-	-	
MAXIMUM I	-	70	-	10	14	50	-	-	AM (6-9AM)
MAXIMUM II	-	41	-	35	10	25	-	-	ALL OTHERS
VEHICLE CLEAR	-	4.0	-	4.0	4.0	4.0	-	-	
RED CLEAR	-	2.0	-	2.0	2.0	2.0	-	-	
LEADING PEDESTRIAN INTERVAL	-	-	-	-	-	5	-	-	
PEDESTRIAN WALK	-	-	-	7	-	4	-	-	
PEDESTRIAN CLEAR	-	-	-	7	-	14	-	-	
RECALL	-	SOFT	-	OFF	OFF	SOFT	-	-	
DUAL ENTRY	-	ON	-	-	-	ON	-	-	
DETECTOR MODE	-	PRESENCE	-	PRESENCE	PRESENCE	PRESENCE	-	-	
PREEMPTION PRIORITY	-	2	-	3	2	1	-	-	
FLASH	-	Y	-	R	R	Y	-	-	

DETECTOR SCHEDULE

PLAN ID	DESCRIPTION	DIRECTION	LANE	SIZE	CALL	DELAY	TYPE	PROCESSOR		
								SLOT NO	DETECTOR NO	CHANNEL NO
1	ME ROUTE 112/BUXTON RD	WESTBOUND	LEFT	6'X50'	5	0	PRESENCE	1	1	1
2	ME ROUTE 112/BUXTON RD	WESTBOUND	THROUGH	6'X50'	2	0	PRESENCE	1	1	2
3	ME ROUTE 112/BUXTON RD	EASTBOUND	THROUGH	6'X50'	6	0	PRESENCE	2	2	1
4	EXIT 35 SB OFF-RAMP	SOUTHBOUND	LEFT-THROUGH	6'X50'	4	0	PRESENCE	3	3	1
5*	EXIT 35 SB OFF-RAMP QUEUE	SOUTHBOUND	THROUGH	20'X20'	4	0	PRESENCE	QUEUE DETECTION SUPPLIED AND INSTALLED BY MTA		
6	EXIT 35 SB OFF-RAMP	SOUTHBOUND	RIGHT	6'X50'	4	8	PRESENCE	3	6	2
7	ME ROUTE 112/BUXTON RD	EASTBOUND	RIGHT	6'X50'	6	0	PRESENCE	2	2	1

\*DETECTOR 5 IS A QUEUE DETECTOR AND SHALL HAVE MINIMUM GREEN OF 10 SECONDS AND A MAXIMUM GREEN OF 120 SECONDS OR DROP OFF WHEN THERE IS NO PRESENCE QUEUE PRESENT. THIS LOW PRIORITY PREEMPTION SHALL NOT INTERFERE WITH EMERGENCY PREEMPTION PHASES CALLED.

SIGNAL TIMING SCHEDULE

	PHASE 1	PHASE 2	PHASE 3	PHASE 4*	PHASE 5	PHASE 6**	PHASE 7	PHASE 8	TIME OF DAY
ROADWAY	-	WB TH-RT	SB L-TH-R	NB L-TH-R	WB LT	EB L-TH-R	-	-	
MINIMUM GREEN	-	10	5	8	8	10	-	-	
EXTENSION	-	3	3	3	3	3	-	-	
MAXIMUM I	-	82	10	20	15	60	-	-	AM (6-9AM)
MAXIMUM II	-	62	5	25	10	45	-	-	ALL OTHERS
VEHICLE CLEAR	-	4.0	4.0	4.0	4.0	4.0	-	-	
RED CLEAR	-	2.0	3.0	3.0	3.0	2.0	-	-	
LEADING PEDESTRIAN INTERVAL	-	5	-	5	-	-	-	-	
PEDESTRIAN WALK	-	4	-	4	-	-	-	-	
PEDESTRIAN CLEAR	-	25	-	10	-	-	-	-	
RECALL	-	SOFT	OFF	OFF	OFF	SOFT	-	-	
DUAL ENTRY	-	ON	-	-	-	ON	-	-	
DETECTOR MODE	-	PRESENCE	PRESENCE	PRESENCE	PRESENCE	PRESENCE	-	-	
PREEMPTION PRIORITY	-	2	3	4	2	1	-	-	
FLASH	-	Y	R	R	R	Y	-	-	

\* NORTHBOUND OFF-RAMP RIGHT TURN LANE SHALL OVERLAP WITH WESTBOUND PROTECTED LEFT-TURN PHASE 5  
 \*\* ME ROUTE 112 EASTBOUND RIGHT TURN LANE SHALL OVERLAP WITH NORTHBOUND OFF-RAMP PHASE 4  
 NOTE: OVERLAP PHASES SHALL BE OMITTED DURING PEDESTRIAN PHASES.

DETECTOR SCHEDULE

PLAN ID	PLAN ID	DIRECTION	LANE	SIZE	CALL	DELAY	TYPE	PROCESSOR		
								SLOT NO	DETECTOR NO	CHANNEL NO
1	ME ROUTE 112 / NORTH ST	WESTBOUND	LEFT	6'X50'	5	0	PRESENCE	1	1	1
2	ME ROUTE 112 / NORTH ST	WESTBOUND	THROUGH-RIGHT	6'X50'	2	0	PRESENCE	1	1	2
3	ME ROUTE 112 / NORTH ST	EASTBOUND	RIGHT	6'X50'	6	8	PRESENCE	2	3	1
4	ME ROUTE 112 / NORTH ST	EASTBOUND	LEFT-THROUGH	6'X50'	6	0	PRESENCE	2	3	2
5	EXIT 35 NB OFF-RAMP	NORTHBOUND	LEFT-THROUGH	6'X50'	4	0	PRESENCE	3	2	1
6	EXIT 35 NB OFF-RAMP	NORTHBOUND	RIGHT	6'X50'	4	8	PRESENCE	3	2	2
7a	LUND RD	SOUTHBOUND	LEFT-THROUGH-RIGHT	9'X25'	3	0	PRESENCE	4	4	1
7b	LUND RD	SOUTHBOUND	LEFT-THROUGH-RIGHT	16'X25'	3	0	PRESENCE	4	4	1

Date: 10/17/2022

Filename: ...00.HIGHWAY\MSTA...Signal\_04.dgn

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

By	Date	By	Date
Designed	EGD 10\22	Checked	PJV 10\22
Drawn	KBJ 10\22	In Charge of	LEM 10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

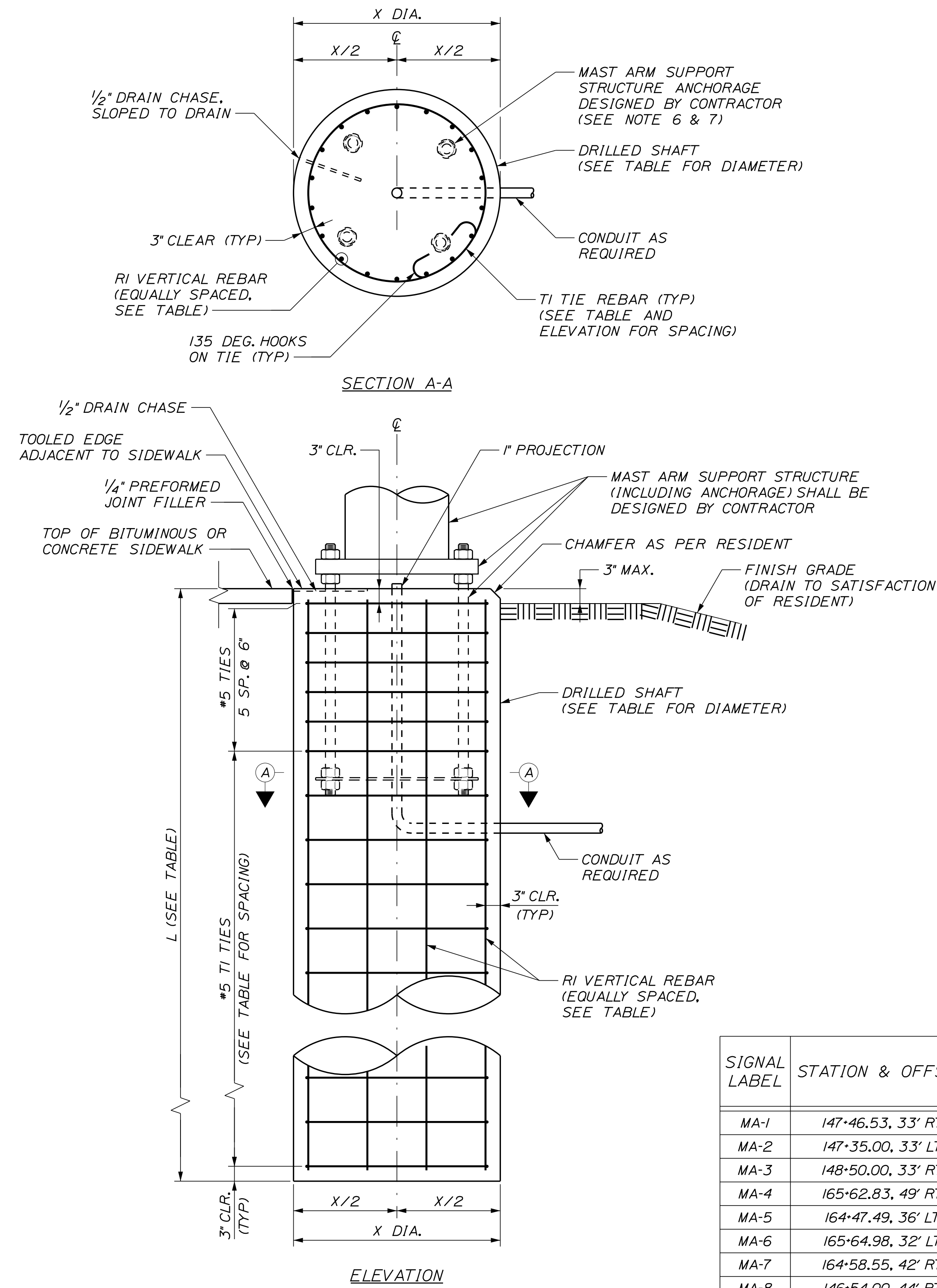
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35& 36)

SIGNAL DETAILS

SHEET NUMBER: TS-04  
 270 OF 735

CONTRACT: 2022.07

Date: 10/17/2022



**DRILLED SHAFT FOUNDATION DETAIL FOR MAST ARM STRUCTURES**  
 NOT TO SCALE  
 (SEE TABLE FOR DRILLED SHAFT AND REINFORCEMENT INFORMATION)

SIGNAL LABEL	STATION & OFFSET	ARM LENGTH (FT)	X DIAMETER (FT)	L LENGTH (FT)	RI VERTICAL REBAR QUANTITY & SIZE	TI TIE REBAR SIZE	AXIAL LOAD (K)	MAXIMUM TOP OF FOUNDATION LOADS				TORSION (K-FT)
								HORIZONTAL FORCE (K)		OVERTURNING MOMENT (K-FT)		
								NORMAL TO STRUCTURE	TRANSVERSE TO STRUCTURE	NORMAL TO STRUCTURE	TRANSVERSE TO STRUCTURE	
MA-1	147+46.53, 33' RT	15	3'-6"	10'-0"	18-#8	#5 @ 12"	2	3	0	49	6	13
MA-2	147+35.00, 33' LT	35	3'-6"	10'-0"	18-#8	#5 @ 9"	4	6	0	95	33	83
MA-3	148+50.00, 33' RT	30	3'-6"	10'-0"	18-#8	#5 @ 12"	3	4	0	61	18	40
MA-4	165+62.83, 49' RT	40	4'-0"	16'-0"	18-#9	#5 @ 9"	4	6	0	102	42	95
MA-5	164+47.49, 36' LT	35	3'-6"	15'-0"	18-#8	#5 @ 9"	3	5	0	93	33	88
MA-6	165+64.98, 32' LT	25	3'-6"	15'-0"	18-#8	#5 @ 12"	3	5	0	77	15	44
MA-7	164+58.55, 42' RT	45	4'-0"	16'-0"	18-#9	#5 @ 9"	4	6	0	92	49	92
MA-8	146+54.00, 44' RT	15	3'-6"	15'-0"	18-#8	#5 @ 12"	2	3	0	54	7	20

**GENERAL MAST ARM FOUNDATION NOTES**

- DESIGN AND CONSTRUCTION OF TRAFFIC SIGNAL MAST ARMS AND MAST ARM FOUNDATIONS SHALL BE IN ACCORDANCE WITH THE MAINEDOT STANDARD SPECIFICATIONS DATED 2014 AND MTA SUPPLEMENTAL SPECIFICATIONS DATED 2016.
- ALL FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH MAINEDOT STANDARD SPECIFICATION 626 AND SPECIAL PROVISION 626.
- MAST ARM FOUNDATIONS SHALL BE PAID UNDER THE APPROPRIATE 626 ITEMS.
- ALL CONCRETE USED FOR FOUNDATIONS SHALL BE CLASS 'A' CONCRETE (f'c = 4,000 PSI) AND SHALL CONFORM TO 2016 MTA SUPPLEMENTAL SPECIFICATIONS 502.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, EPOXY COATED AND SHALL CONFORM TO MAINEDOT STANDARD SPECIFICATION 503. REINFORCEMENT SCHEDULES AND REINFORCING STEEL SHOP DRAWINGS FOR FOUNDATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
- ALL REINFORCEMENT SHALL HAVE 3 INCHES OF COVER UNLESS OTHERWISE NOTED.
- DESIGN FOR MAST ARM STRUCTURES INCLUDING ANCHORAGES SHALL BE PROVIDED BY THE CONTRACTOR. SUBMIT DESIGN CALCULATIONS INCLUDING SUPPORT REACTIONS AT THE TOPS OF THE FOUNDATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL. DESIGN CALCULATIONS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MAINE. DESIGN OF TRAFFIC SIGNAL MAST ARMS SHALL CONFORM TO THE LATEST EDITION OF AASHTO 'STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 2013' INCLUDING THE LATEST INTERIM REVISIONS AND MAINEDOT STANDARD SPECIFICATION 643.  
 MINIMUM DESIGN CRITERIA:  
 - 50-YEAR MRI  
 - FATIGUE CATEGORY II  
 - BASIC WIND SPEED = 100 MPH
- ANCHOR BOLTS SHALL BE SET BY TEMPLATE AND CAST IN FOUNDATION. DRILLING AND GROUTING OF ANCHOR BOLTS SHALL NOT BE PERMITTED.
- REFER TO SIGNAL PLANS FOR MAST ARM LOCATIONS.
- PROTECTIVE COATING FOR CONCRETE SURFACES, CONFORMING TO MAINE TURNPIKE AUTHORITY SPECIAL PROVISION 515 & SPECIAL PROVISION 626, SHALL BE APPLIED ON ALL EXPOSED CONCRETE PORTIONS OF THE FOUNDATIONS TO A DEPTH OF 12" BELOW GRADE AND SHALL BE INCIDENTAL TO THE 626 PAY ITEMS.
- CONTRACTOR SHALL REVIEW THE GEOTECHNICAL ENGINEERING REPORT DATED 5/13/2022 REGARDING EXPECTED SOIL, BEDROCK TYPES, QUALITY, AND STRENGTHS.
- HOOKS AT THE ENDS OF CLOSED CIRCULAR TIES SHALL ENGAGE A VERTICAL BAR. OVERLAPS AT ENDS OF CIRCULAR TIES SHALL BE STAGGERED ALONG LENGTH OF REBAR CAGE.

Filename: ... \001\_Traffic\_Signal\_Mast.dgn

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	DYN	10\22	Checked	LEM	10\22
Drawn	DEB	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

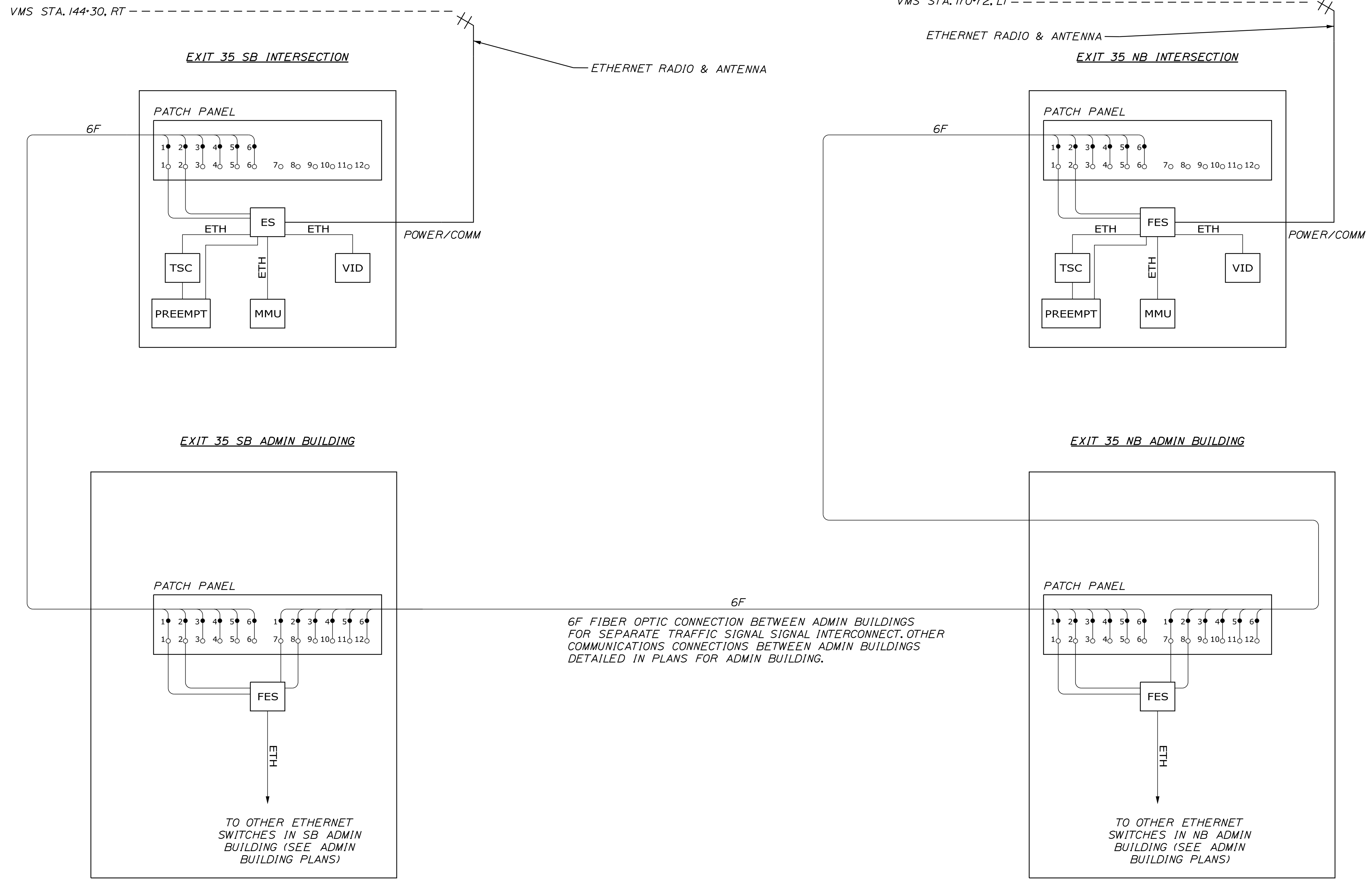
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

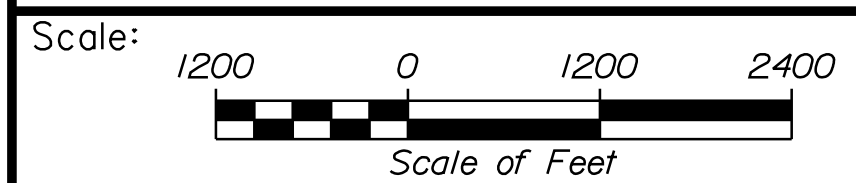
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 TRAFFIC SIGNAL  
 FOUNDATION DETAILS

SHEET NUMBER: TS-05  
 CONTRACT: 2022.07  
 271 OF 735

LEGEND	
	FIBER OPTIC PIGTAIL
	FIBER OPTIC SPLICE
	WIRELESS RADIO ANTENNA
6F	PROPOSED MULTIMODE FIBER OPTIC CABLE, 6 STRAND
FES	PROPOSED FIBER ETHERNET SWITCH
ETH	ETHERNET CABLE
MMU	MALFUNCTION MANAGEMENT UNIT
PP	PATCH PANEL
TSC	TRAFFIC SIGNAL CONTROLLER
VID	VIDEO DETECTION CONTROL UNIT



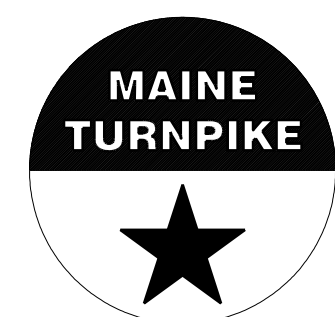
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THE GOLD STAR  
 MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

COMMUNICATION DIAGRAMS

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	EGD	10\22	Checked	PJV	10\22
Drawn	KBK	10\22	In Charge of	LEM	10\22

SHEET NUMBER: TS-06

CONTRACT:2022.07

272 OF 735



S42°26'25.17"E

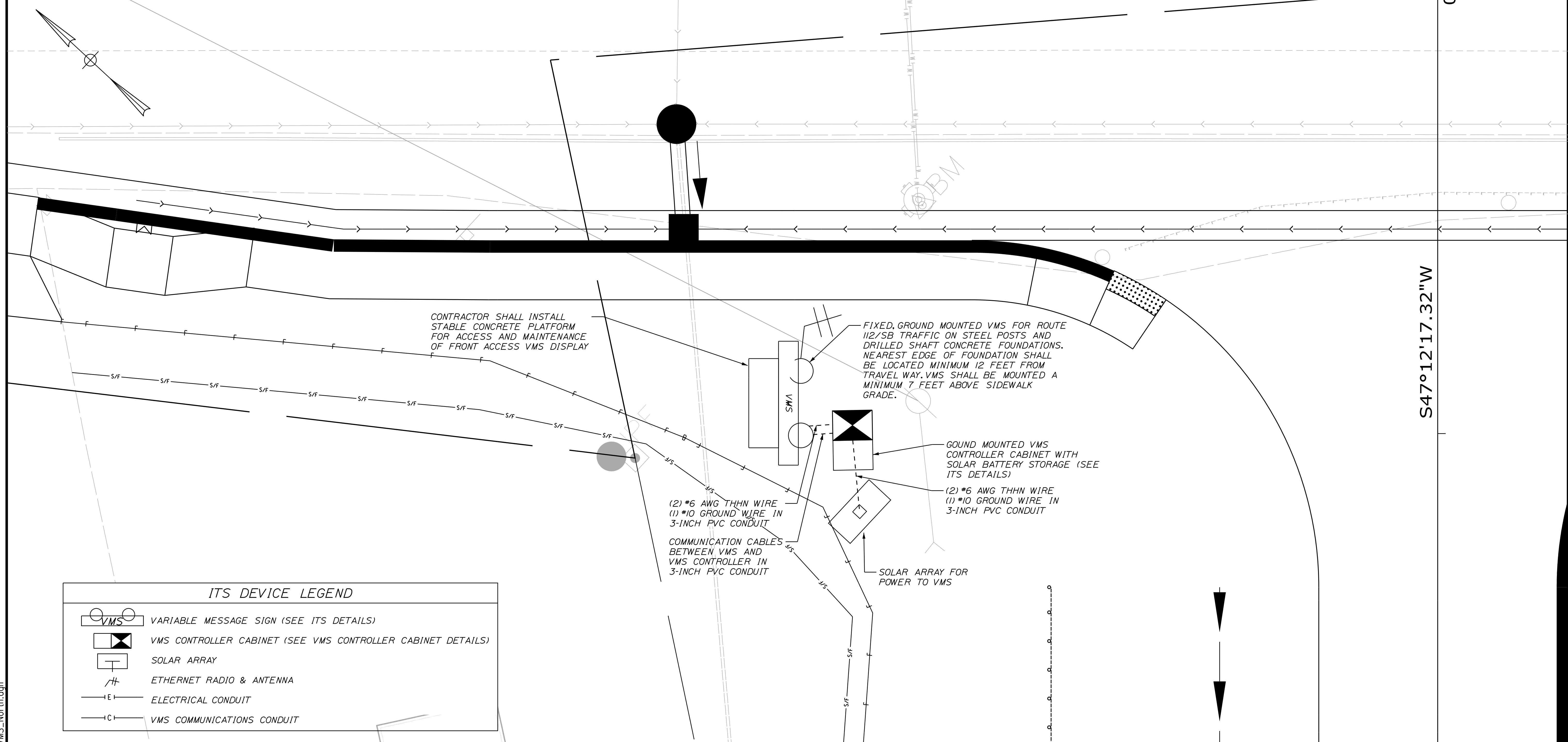
144+00

145+00

ROUTE 112

44+00

S47°12'17.32"W



ITS DEVICE LEGEND

	VARIABLE MESSAGE SIGN (SEE ITS DETAILS)
	VMS CONTROLLER CABINET (SEE VMS CONTROLLER CABINET DETAILS)
	SOLAR ARRAY
	ETHERNET RADIO & ANTENNA
	ELECTRICAL CONDUIT
	VMS COMMUNICATIONS CONDUIT

Scale:

No.	Revision	By	Date

Designed by:

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PORTLAND, ME 04102  
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FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	EGD	10\22	Checked	PJV	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

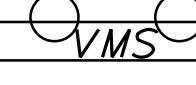
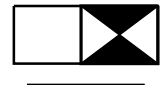
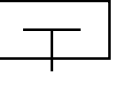
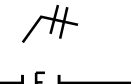
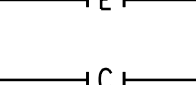
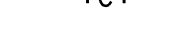


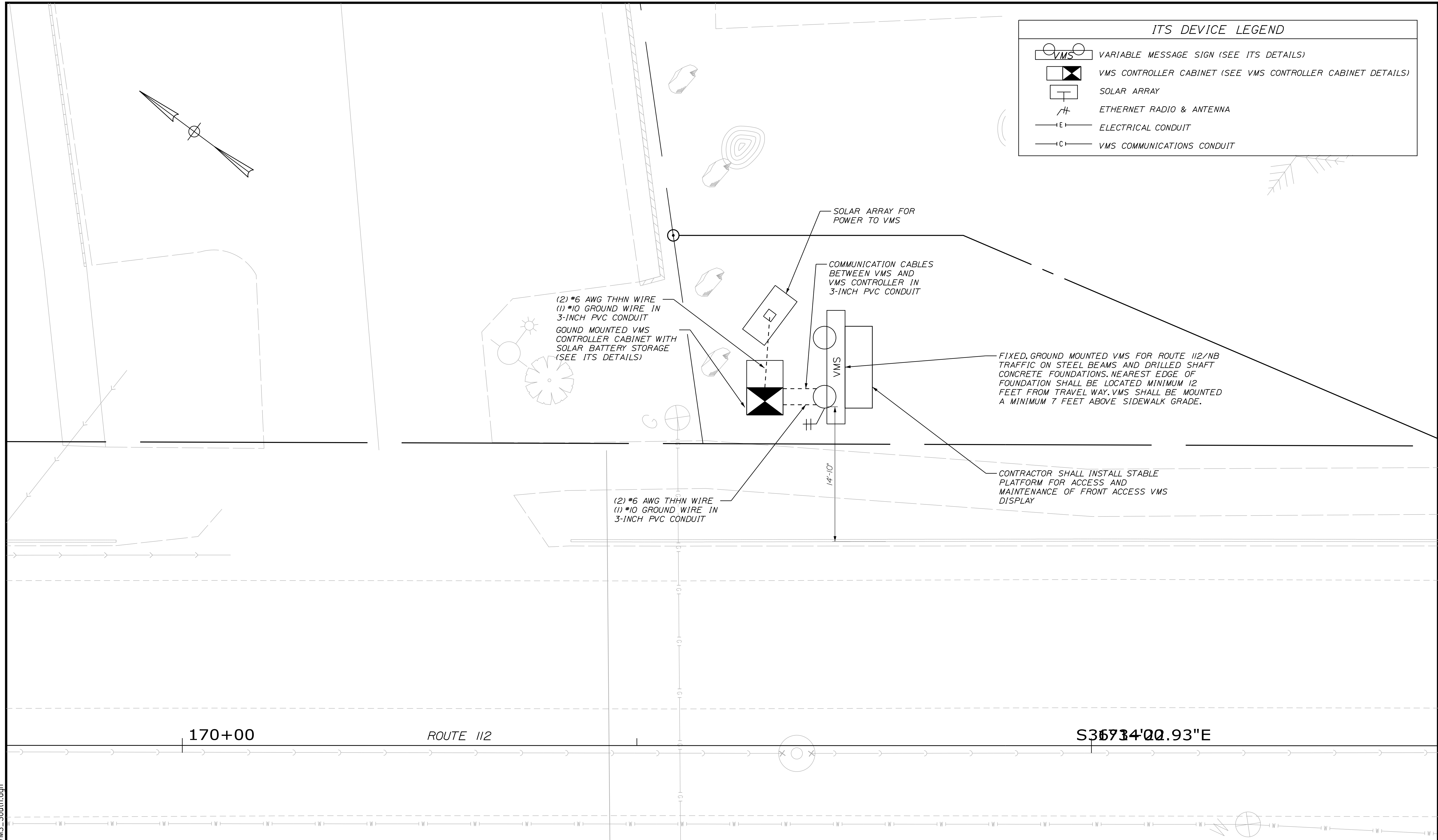
THE GOLD STAR  
MEMORIAL HIGHWAY

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
ITS DEVICE PLAN  
VMS AT STA. 144+30, RT

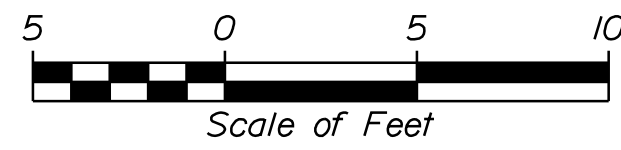
Filename: ...MSTA\_traffic\_VMS\_North.dgn

ITS DEVICE LEGEND

-  VARIABLE MESSAGE SIGN (SEE ITS DETAILS)
-  VMS CONTROLLER CABINET (SEE VMS CONTROLLER CABINET DETAILS)
-  SOLAR ARRAY
-  ETHERNET RADIO & ANTENNA
-  ELECTRICAL CONDUIT
-  VMS COMMUNICATIONS CONDUIT




Filename: ...MSTA\_traffic\_VMS\_South.dgn

Scale: 

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	EGD	10\22	Checked	PJV	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

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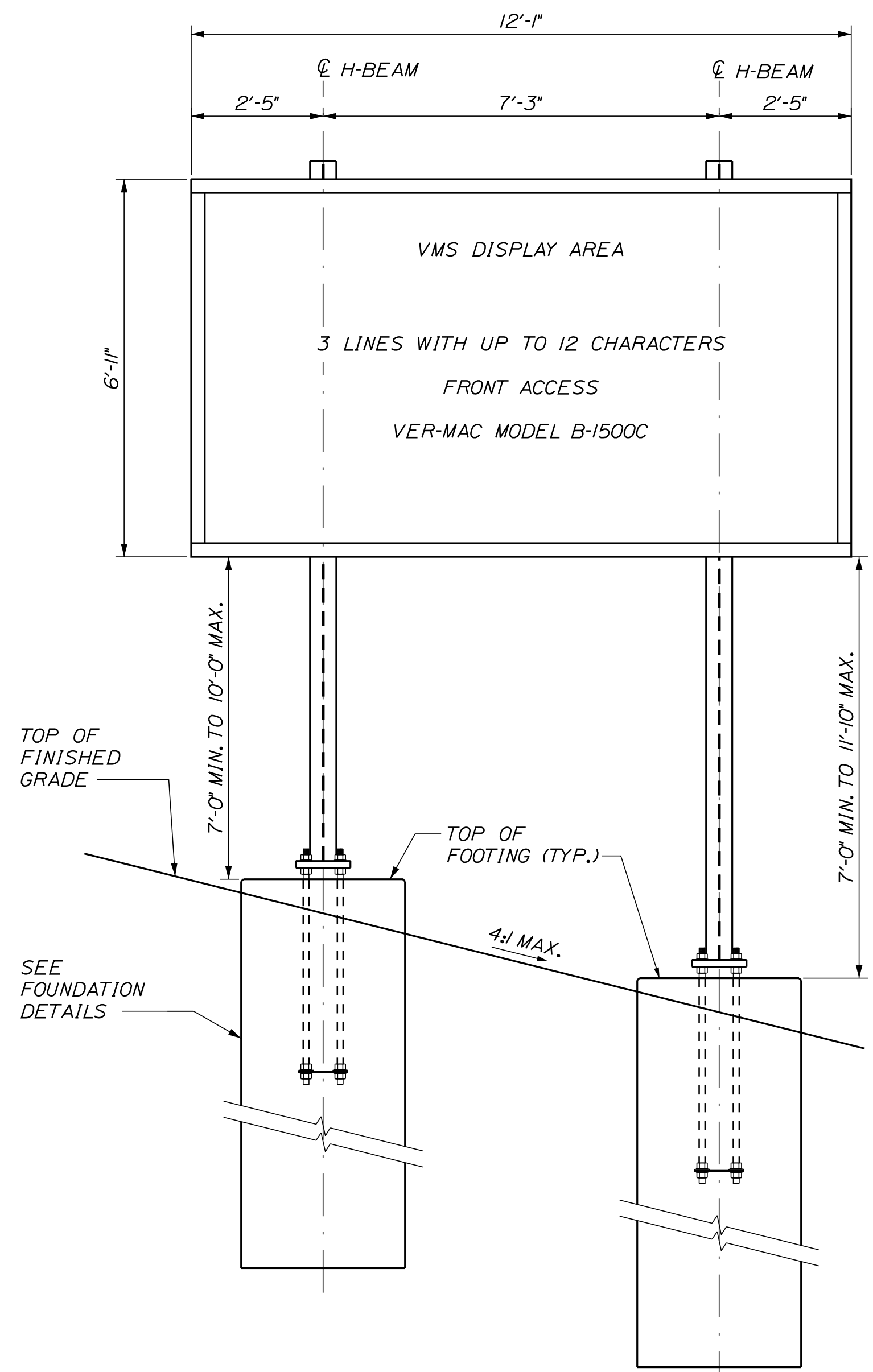


**THE GOLD STAR  
 MEMORIAL HIGHWAY**

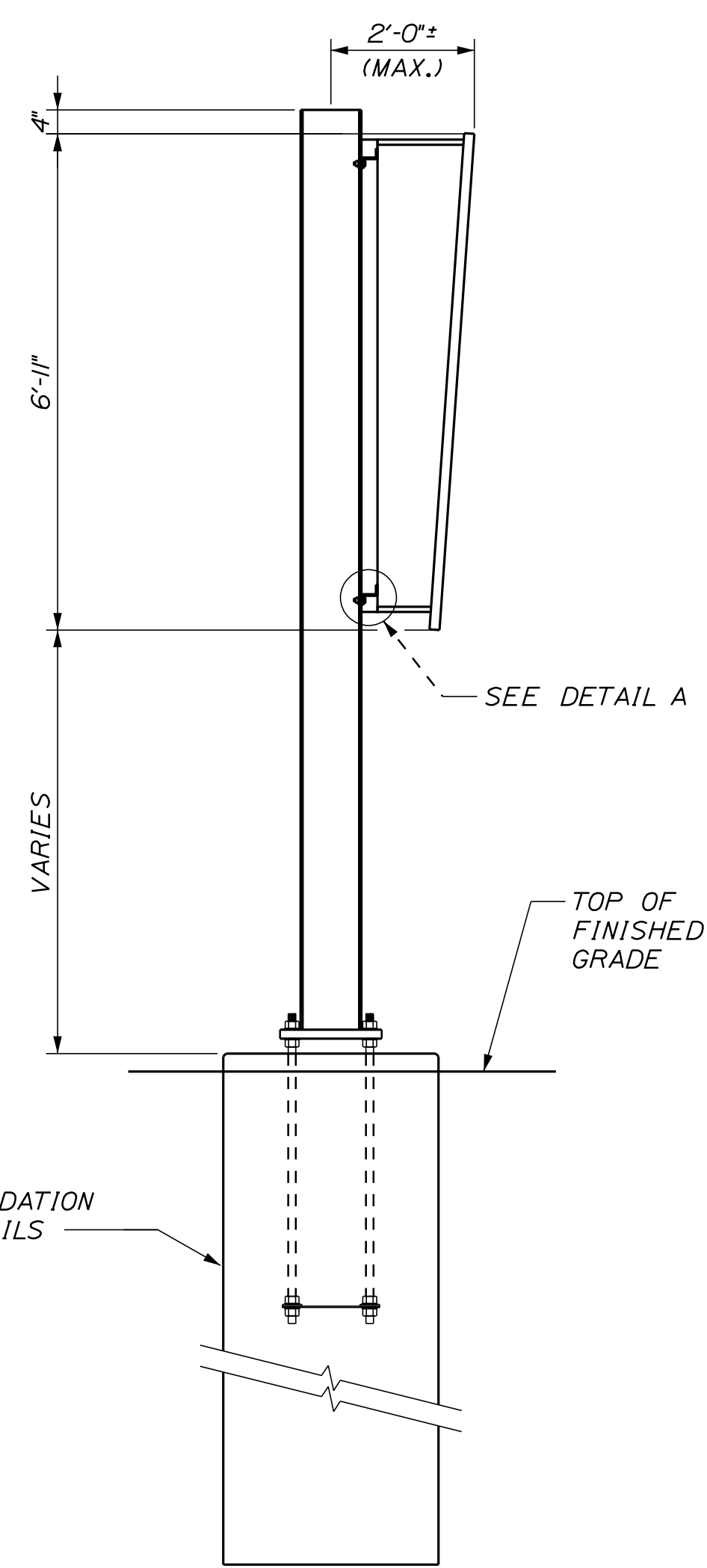
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 ITS DEVICE PLAN  
 VMS AT STA. 170+72, LT

SHEET NUMBER: ITS-02  
 274 OF 735

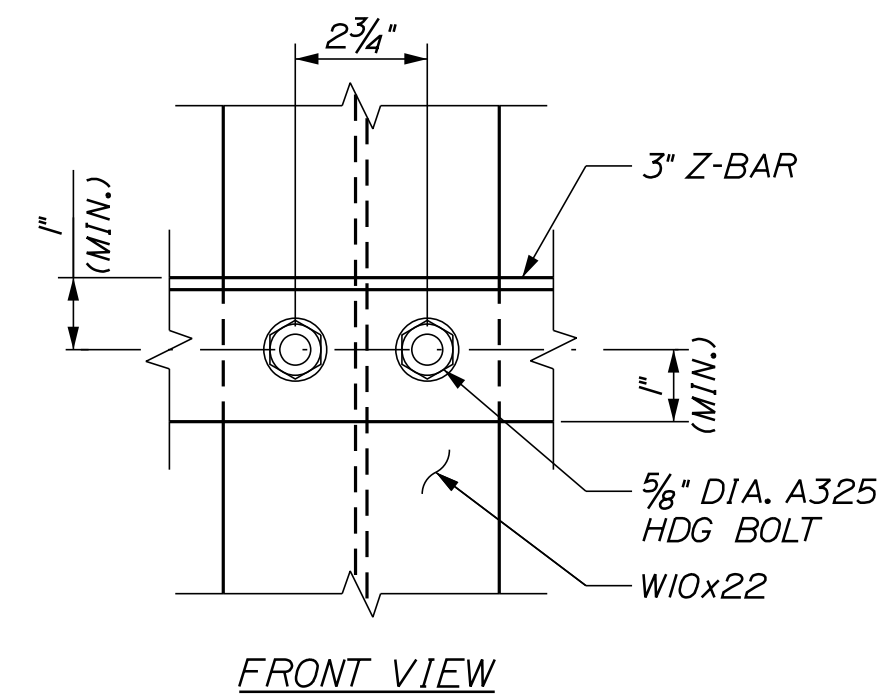
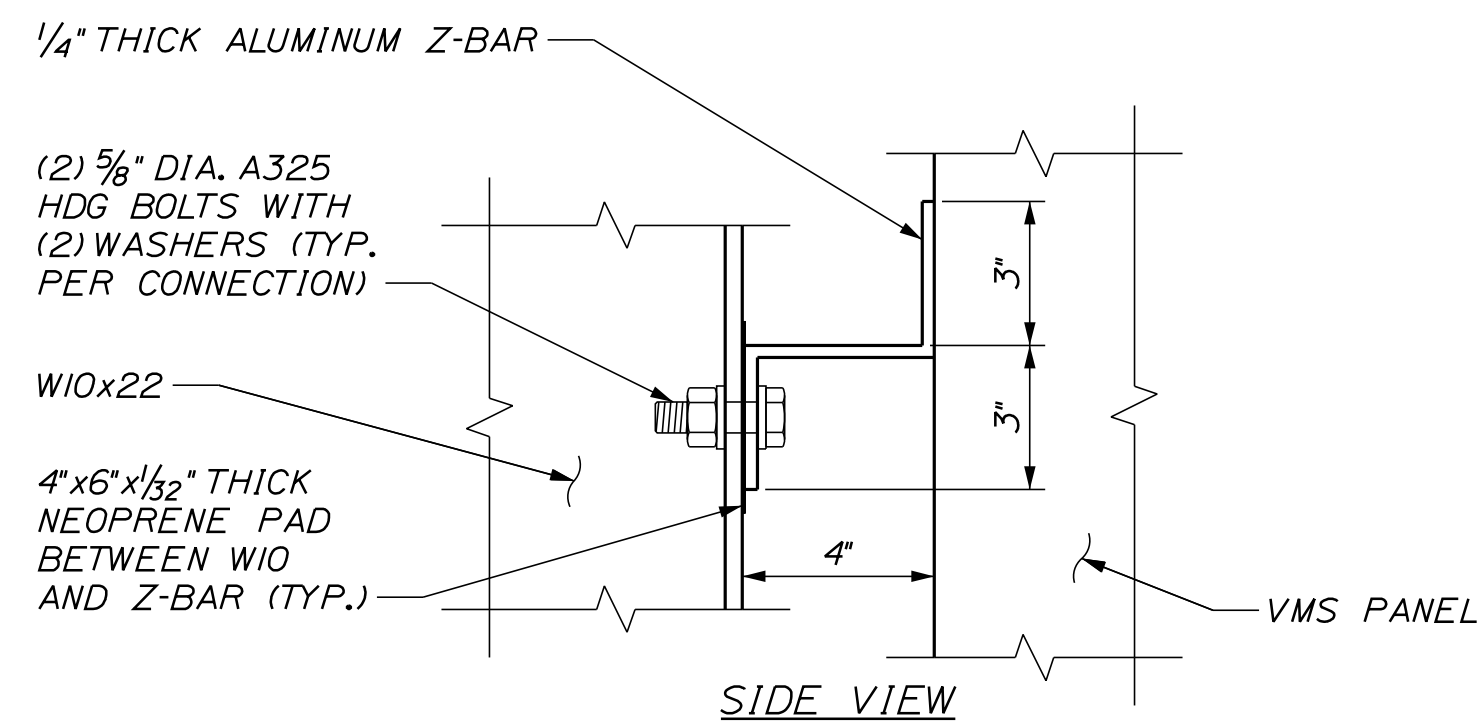
CONTRACT:2022.07



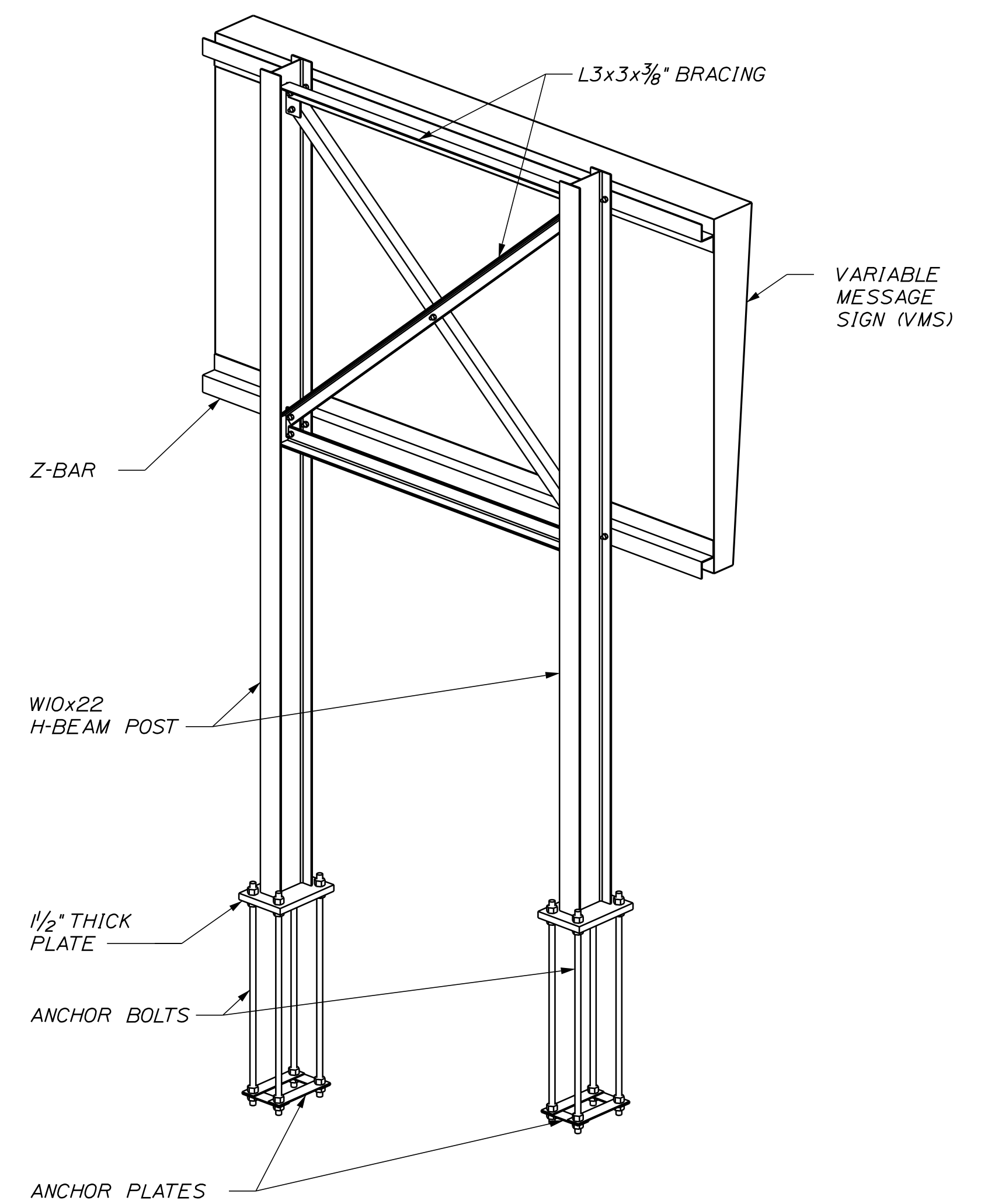
**GROUND MOUNTED VARIABLE MESSAGE SIGN (VMS)**  
SCALE: 1/2" = 1'-0"



**SECTION**  
SCALE: 1/2" = 1'-0"



**DETAIL A**  
SCALE: 3" = 1'-0"



**VMS SUPPORT STRUCTURE**  
STA. 144-30, RT.  
STA. 170-72, LT.

**GENERAL VMS SUPPORT NOTES:**

1. THE VMS STEEL SUPPORT STRUCTURE INCLUDING POSTS, BRACING, BASEPLATES, AND ANCHORAGE ASSEMBLY SHALL BE PAID UNDER THE APPROPRIATE 650 ITEMS. VMS SUPPORT CONCRETE FOUNDATIONS SHALL BE PAID FOR SEPARATELY UNDER THE APPROPRIATE 626 ITEMS.
2. ALL STRUCTURAL STEEL INCLUDING HARDWARE AND ANCHOR BOLTS SHALL MEET THE REQUIREMENTS SPECIFIED IN SECTION 720 OF THE 2014 MAINE DOT STANDARD SPECIFICATIONS.
3. VMS STEEL SUPPORT FRAME HAS BEEN DESIGNED FOR A 6'-11" HIGH X 12'-1" WIDE DIGITAL SIGN PANEL WEIGHING 1100 LBS.
4. DIMENSIONS INCLUDING POST HEIGHTS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION OF STRUCTURAL STEEL. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
5. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:  
H-BEAM POSTS ..... ASTM A992  
ANGLES ..... ASTM A36  
PLATES ..... ASTM A709, GRADE 36  
HIGH STRENGTH BOLTS ..... ASTM F3125, GRADE A325, TYPE 1 (HDG)  
ANCHOR BOLTS ..... ASTM F1554, GRADE 55
6. ALL STRUCTURAL STEEL AND HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M311 AND AASHTO M232, RESPECTIVELY.
7. ALL WELDING SHALL BE PERFORMED USING E70XX (70 KSI) ELECTRODES.

**VARIABLE MESSAGE SIGN (VMS) NOTES:**

1. THE VMS SHALL BE INSTALLED A MINIMUM OF SEVEN (7) FEET ABOVE THE GRADE AT THE NEAREST EDGE OF PAVEMENT BUT NOT MORE THAN TEN (10) FEET ABOVE THE NEAREST SIDEWALK GRADE AT THE LOCATION OF THE VMS STRUCTURE. POSTS SHALL BE A MINIMUM OF FOURTEEN (14) FEET LONG AND SHALL BE INSTALLED FOUR (4) INCHES TALLER THAN THE VMS MOUNTING.
2. Z-BAR ANGLES SHALL BE FURNISHED AND INSTALLED TO MOUNT THE VMS TO THE H-BEAM SIGN SUPPORTS. HOLES FOR THE THROUGH BOLTS MAY BE PRE-DRILLED BY THE H-BEAM FABRICATOR OR MAY BE FIELD DRILLED ON SITE. FIELD DRILLED HOLES SHALL BE SPRAY GALVANIZED AFTER DRILLING.
3. VMS CABLES SHALL BE INSTALLED IN FLEXIBLE POLYETHYLENE (PE) OR RIGID GALVANIZED STEEL CONDUIT FROM THE CONTROLLER CABINET TO THE VMS. CONDUITS SHALL ENTER THE VMS AT THE LOCATION INDICATED BY THE MANUFACTURER.
4. CONDUIT FOR THE VMS CABLES SHALL BE TWO (2) INCH MINIMUM. CONDUITS SHALL BE FIRMLY ATTACHED TO THE SIGN SUPPORTS AT FIVE (5) FOOT INTERVALS, MINIMUM, WITH NO SEGMENT OF UNSUPPORTED CONDUIT, INCLUDING FLEXIBLE CONDUIT, GREATER THAN FIVE (5) FEET.

Filename: ...MSTA\_traffic ITS\_1.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	DYN	10\22	Checked	PJV	10\22
Drawn	DEB	10\22	In Charge of	LEM	10\22

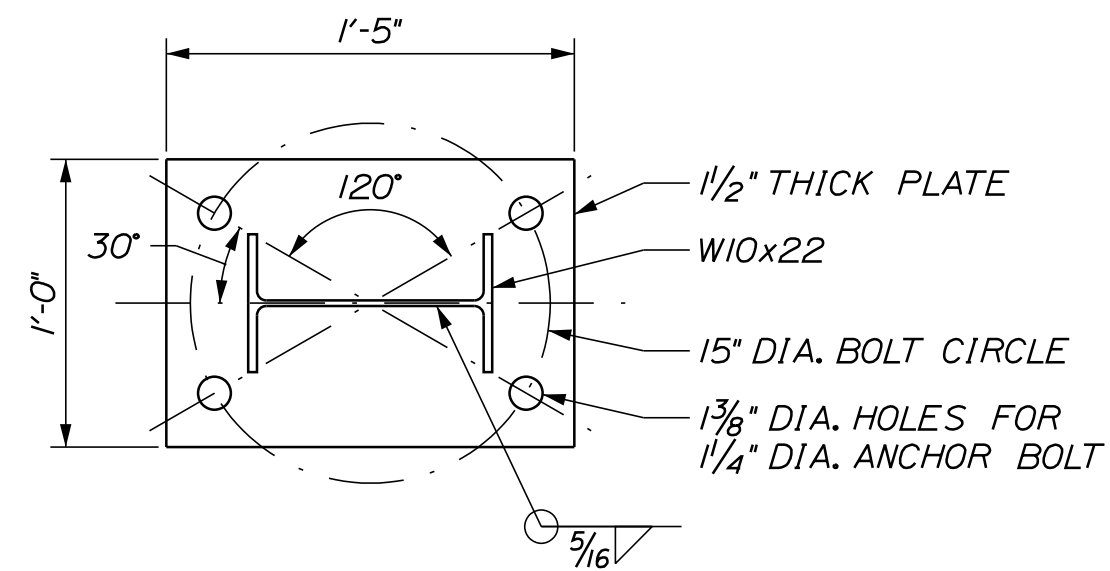
STANTEC CONSULTING SERVICES INC.  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

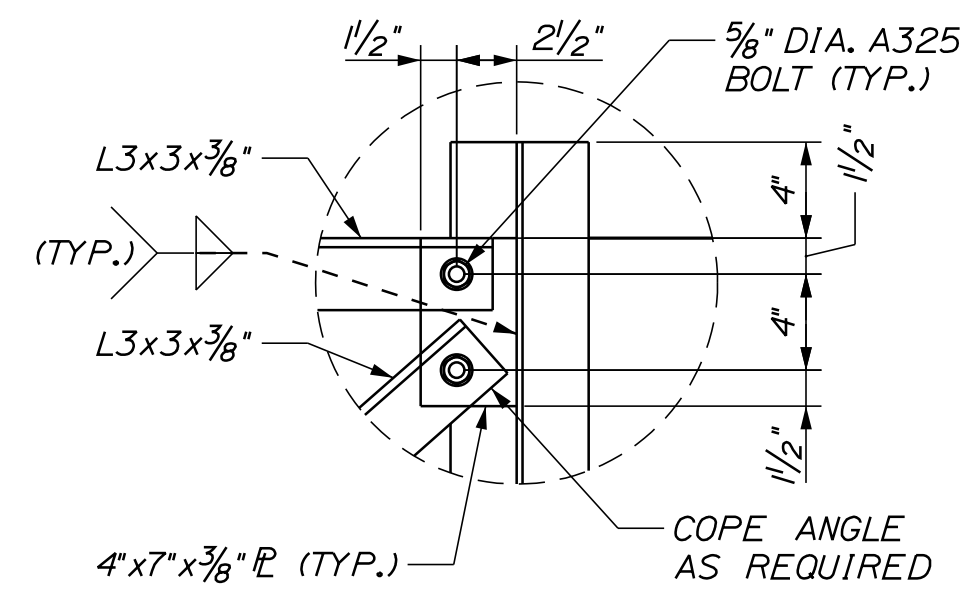
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

ITS DETAILS - 1

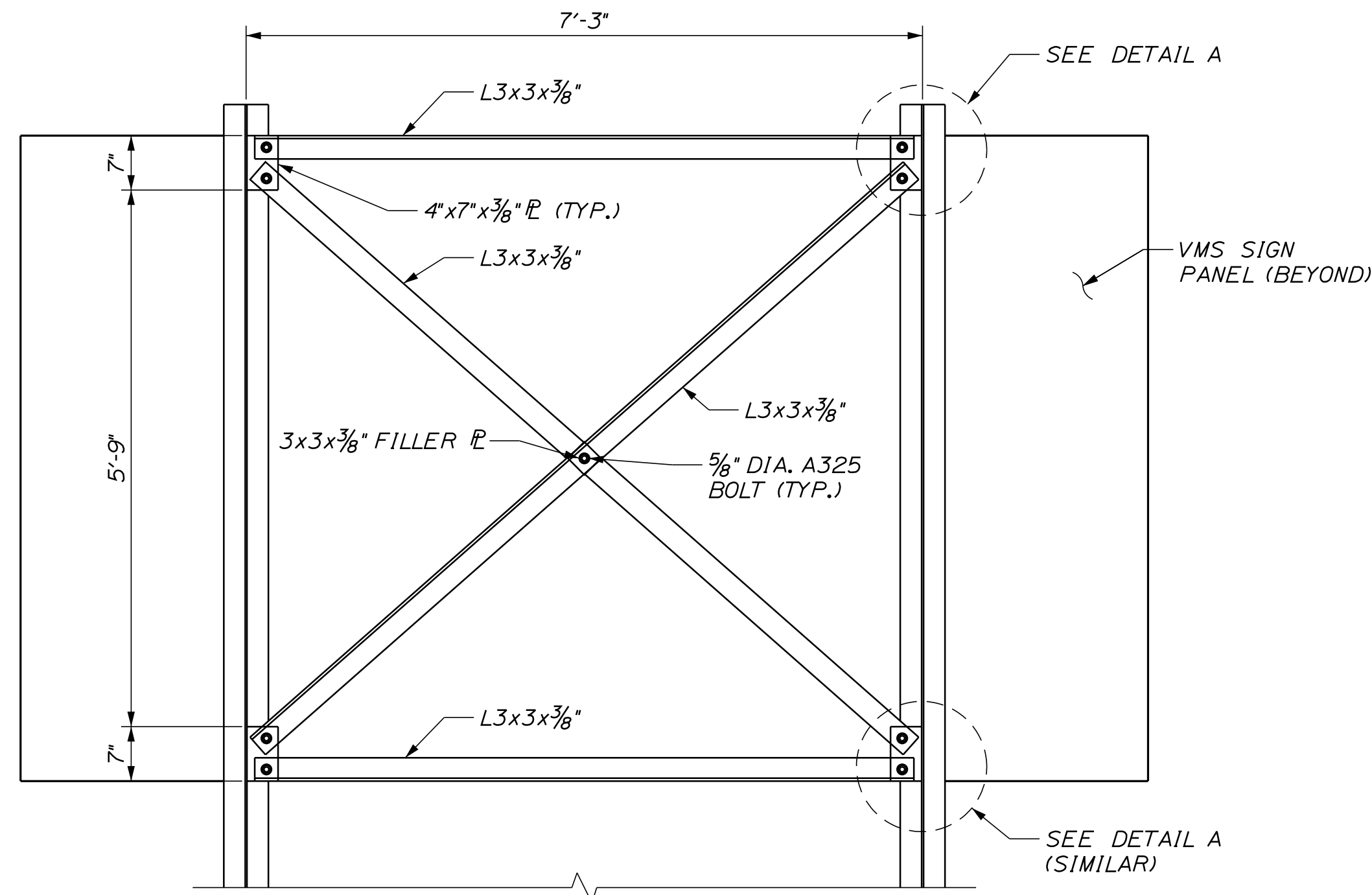
SHEET NUMBER: ITS-03  
CONTRACT: 2022.07  
275 OF 735



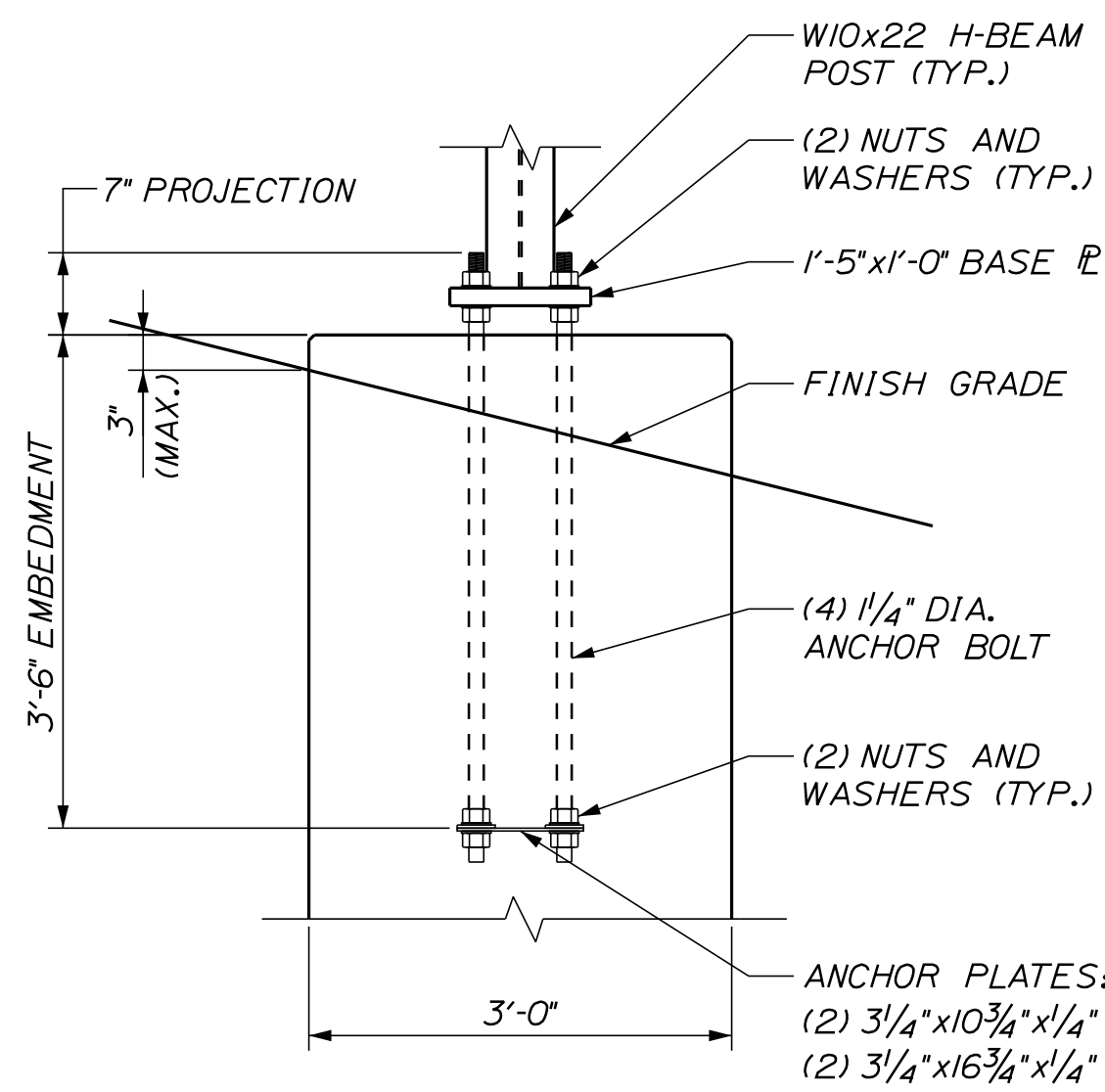
**BASE PLATE DETAIL**  
SCALE: 1/2" = 1'-0"



**DETAIL A**  
SCALE: 1/2" = 1'-0"



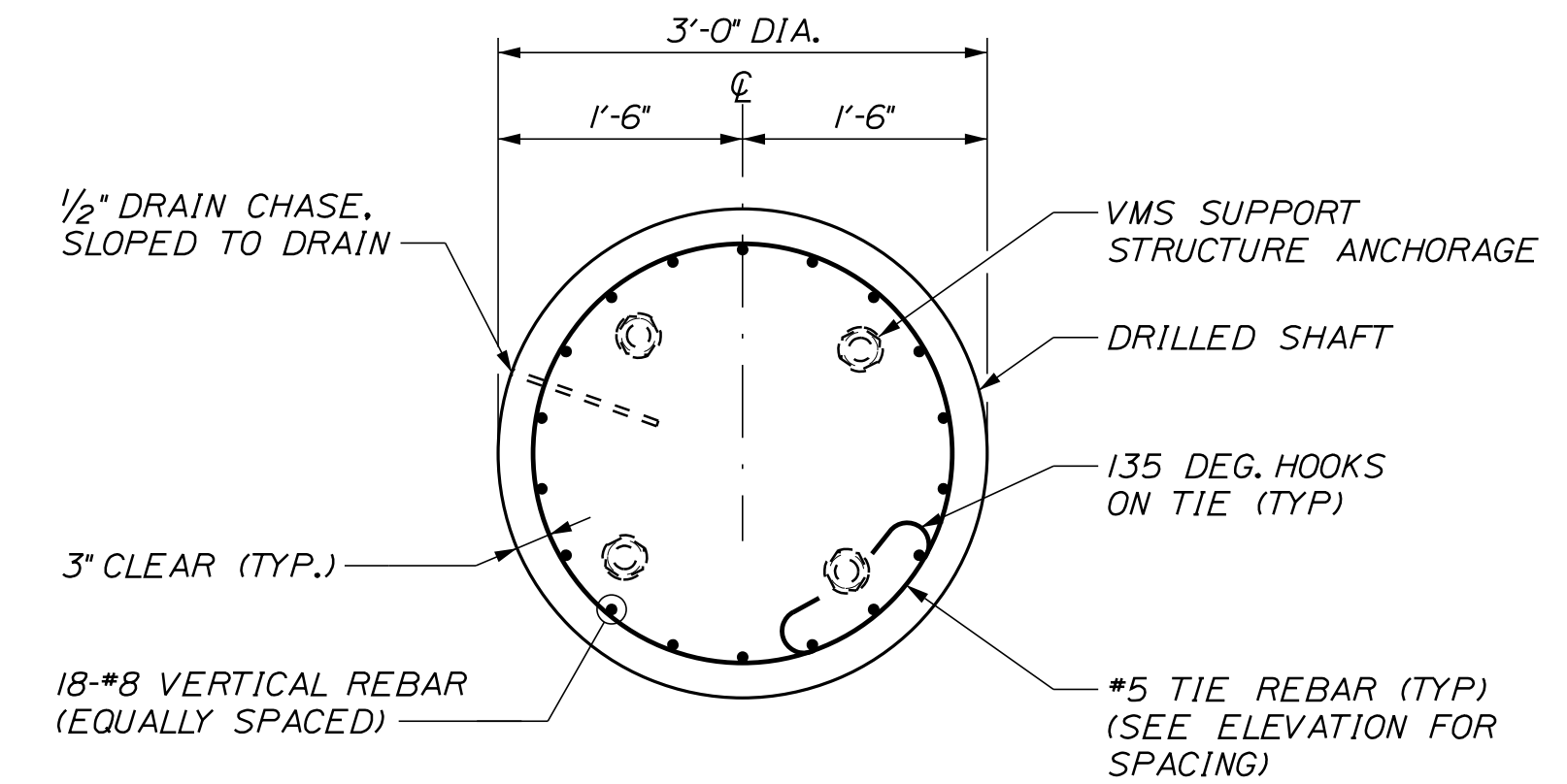
**X-BRACING DETAIL**  
SCALE: 3/4" = 1'-0"



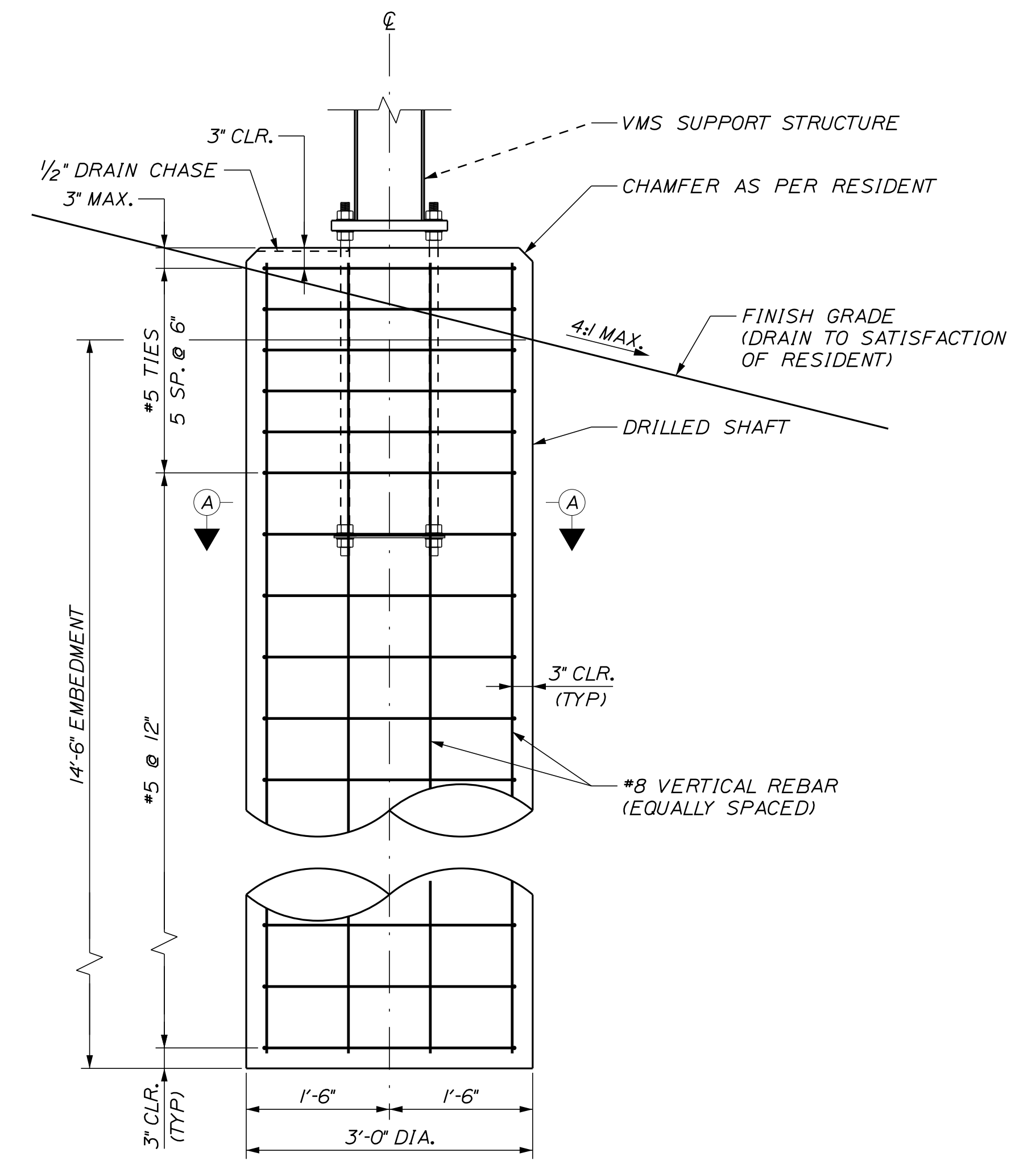
**ANCHORAGE DETAIL**  
SCALE: 3/4" = 1'-0"

**GENERAL VMS SUPPORT FOUNDATION NOTES:**

1. ALL FOUNDATIONS SHALL BE CONSTRUCTED AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH MAINE DOT STANDARD SPECIFICATION 626 AND SPECIAL PROVISION 626.
2. VMS SUPPORT FOUNDATIONS SHALL BE PAID UNDER THE APPROPRIATE 626 ITEMS.
3. ALL CONCRETE USED FOR FOUNDATIONS SHALL BE CLASS 'A' CONCRETE (f'c = 4,000 PSI) AND SHALL CONFORM TO 2016 MTA SUPPLEMENTAL SPECIFICATIONS 502.
4. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, EPOXY COATED AND SHALL CONFORM TO MAINE DOT STANDARD SPECIFICATION 503. REINFORCEMENT SCHEDULES AND REINFORCING STEEL SHOP DRAWINGS FOR FOUNDATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
5. ALL REINFORCEMENT SHALL HAVE 3 INCHES OF COVER UNLESS OTHERWISE NOTED.
6. ANCHOR BOLTS CONFORM TO ASTM F1554, GRADE 55 WITH A MINIMUM YIELD STRENGTH OF 55 KSI. ANCHOR BOLTS AND ASSOCIATED NUTS AND WASHERS SHALL BE FULLY GALVANIZED IN ACCORDANCE WITH AASHTO M232.
7. ANCHOR BOLTS SHALL BE SET BY TEMPLATE AND CAST IN FOUNDATION. DRILLING AND GROUTING OF ANCHOR BOLTS SHALL NOT BE PERMITTED.
8. PROTECTIVE COATING FOR CONCRETE SURFACES, CONFORMING TO MAINE TURNPIKE AUTHORITY SPECIAL PROVISION 515 & SPECIAL PROVISION 626, SHALL BE APPLIED ON ALL EXPOSED CONCRETE PORTIONS OF THE FOUNDATIONS TO A DEPTH OF 12" BELOW GRADE AND SHALL BE INCIDENTAL TO THE 626 PAY ITEMS.
9. HOOKS AT THE ENDS OF CLOSED CIRCULAR TIES SHALL ENGAGE A VERTICAL BAR. OVERLAPS AT ENDS OF CIRCULAR TIES SHALL BE STAGGERED ALONG LENGTH OF REBAR CAGE.



**SECTION A-A**



**ELEVATION**

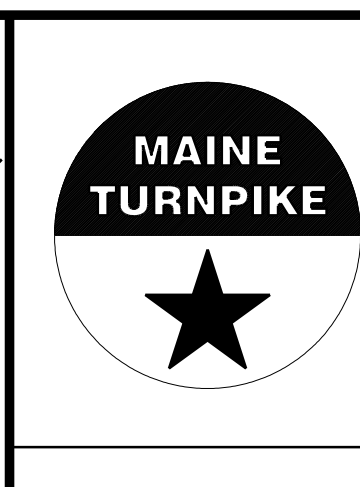
**DRILLED SHAFT FOUNDATION DETAIL FOR VMS STRUCTURES**  
NOT TO SCALE

Filename: ...MSTA\_traffic ITS\_2.dgn

Scale:				
No.	Revision	By	Date	

Designed by:				
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.				
Designed	DYN	10\22	Checked	PJV
Drawn	DEB	10\22	In Charge of	LEM

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

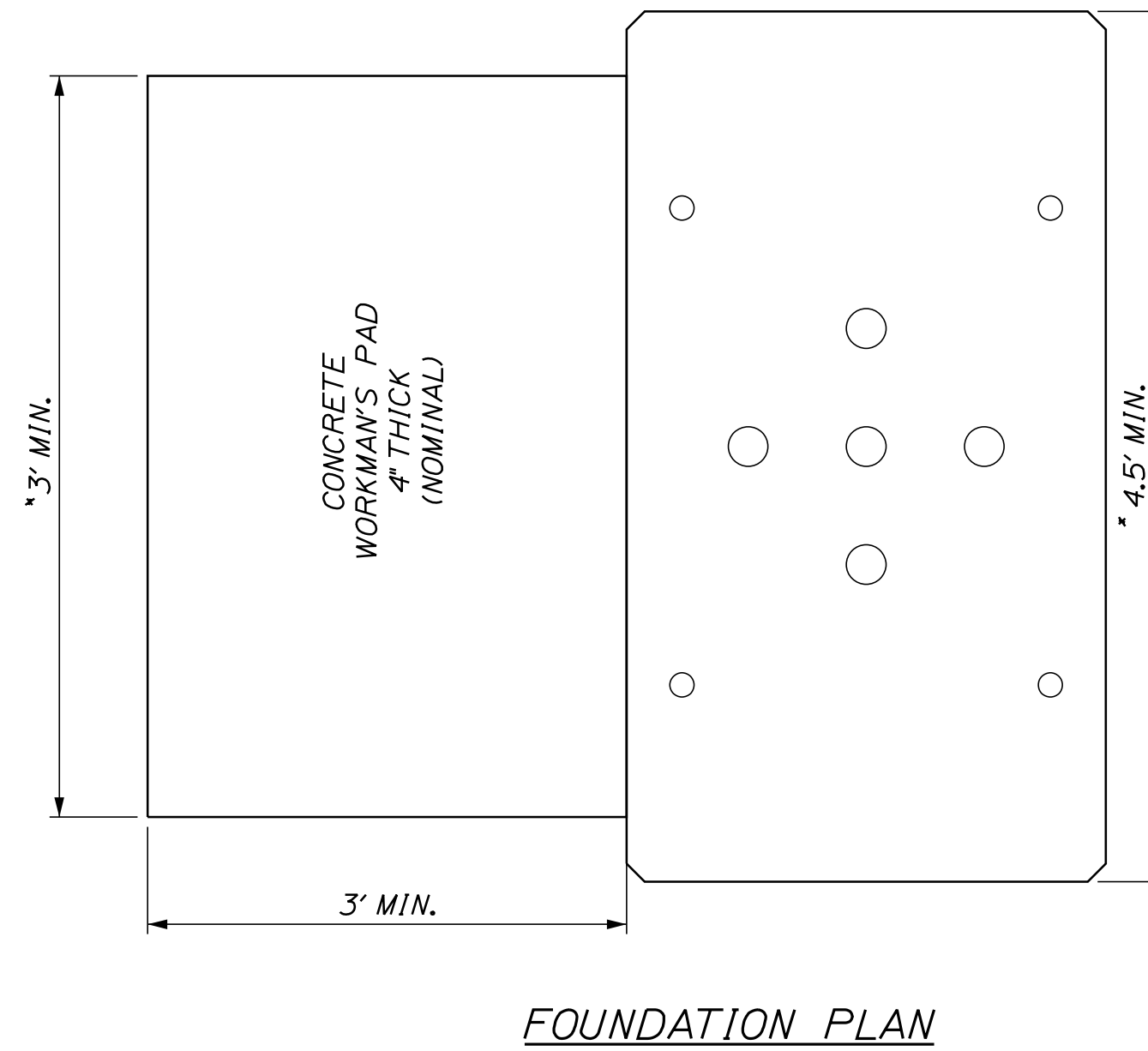
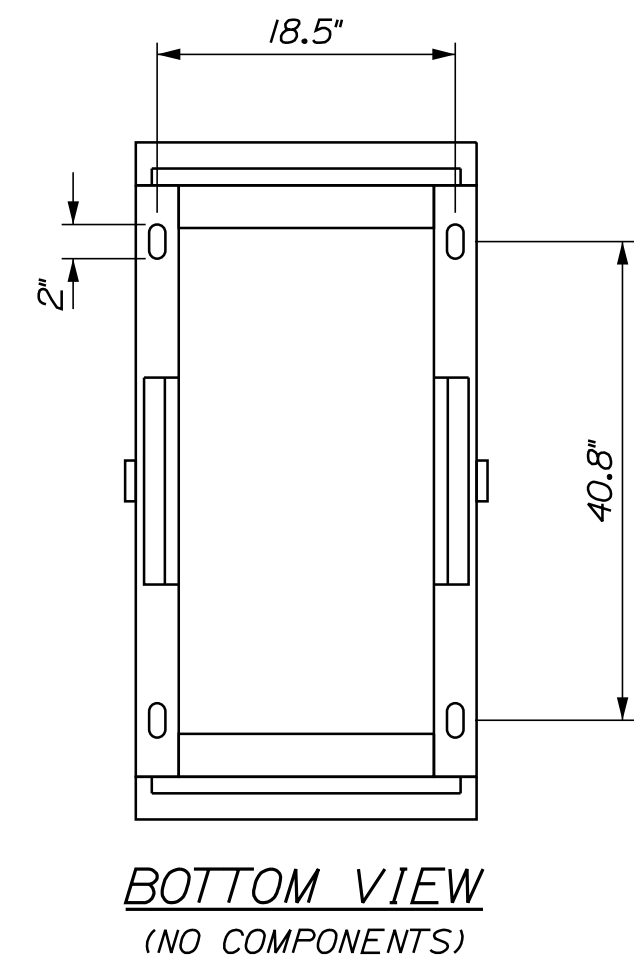
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

ITS DETAILS - 2

SHEET NUMBER: ITS-04

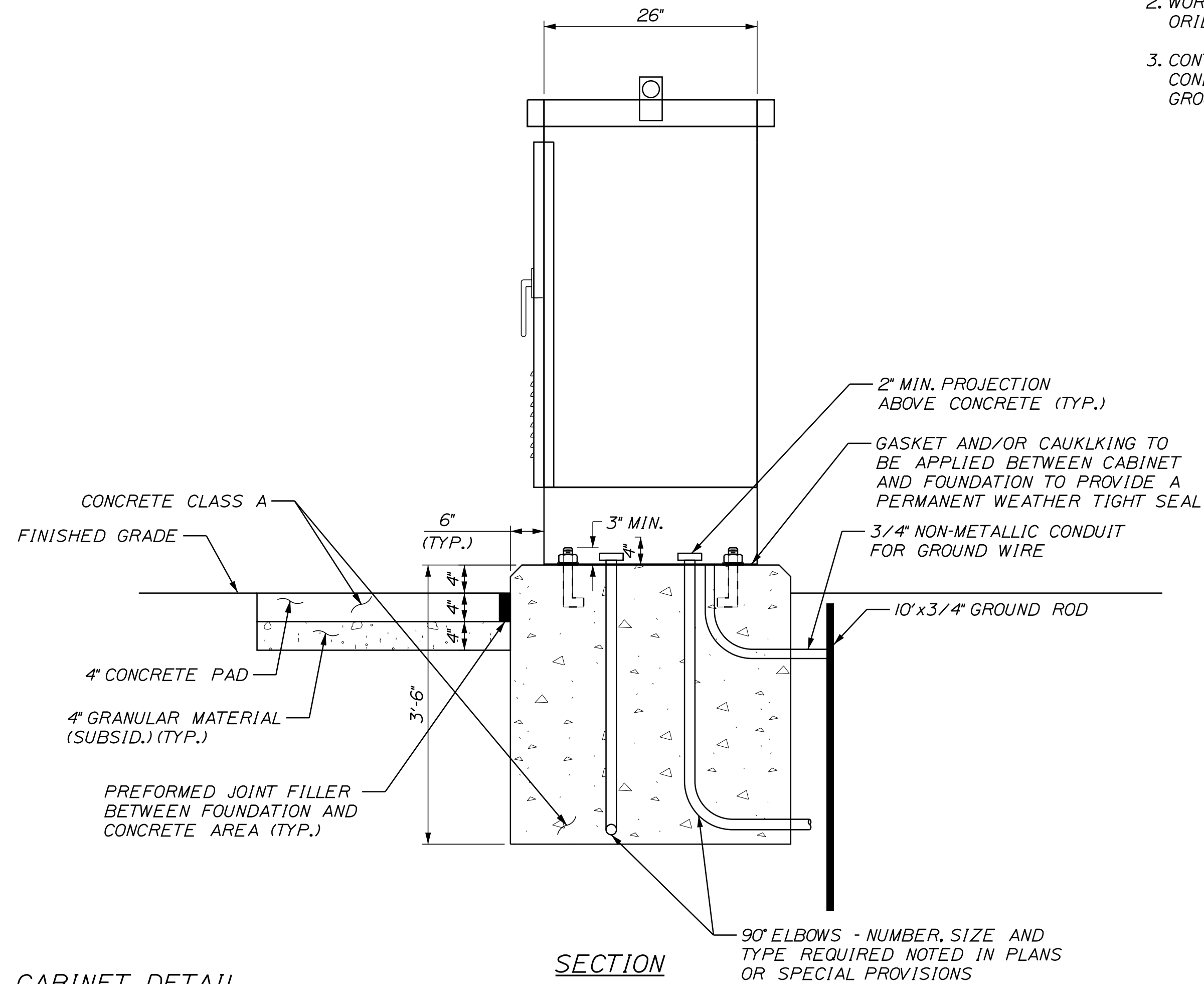
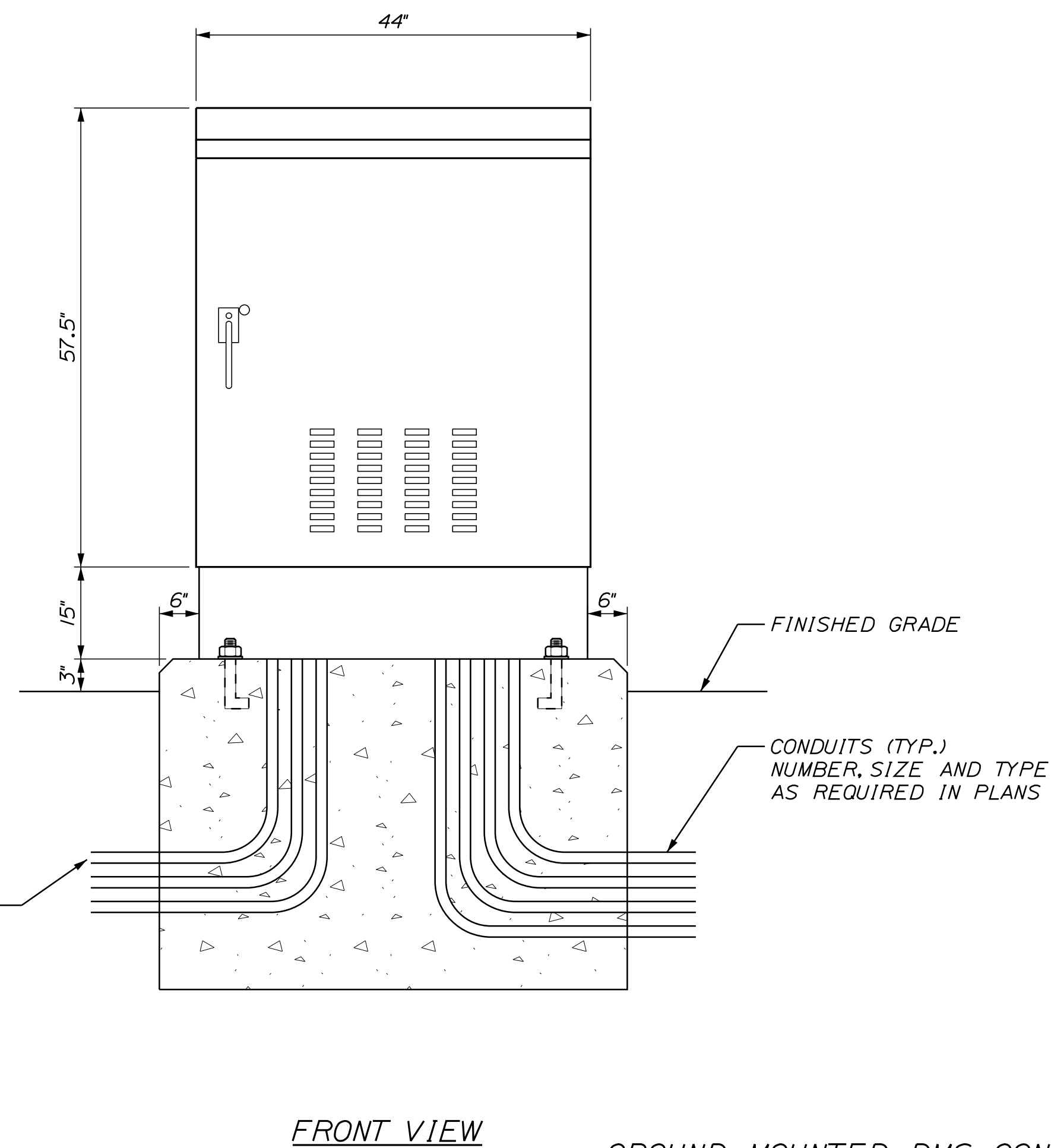
CONTRACT:2022.07

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\*FOUNDATION SHALL BE 6" WIDER AND LONGER THAN CABINET BASE TO BE INSTALLED

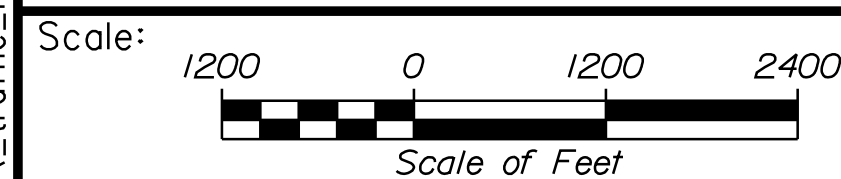
BOLT SIZE, SPACING AND PROJECTION ABOVE CONCRETE PER MANUFACTURER'S TEMPLATE



- SIGNAL CONTROLLER CABINET NOTES:**
1. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4".
  2. WORKMAN'S PADS (AND CABINET DOORS) SHOULD BE ORIENTED AS SHOWN ON THE PLANS.
  3. CONTRACTOR SHALL INSTALL A SPARE 3" PVC CONDUIT CAPPED 5 FEET FROM CABINET AT ALL GROUND MOUNTED LOCATIONS.

**GROUND MOUNTED DMS CONTROLLER CABINET DETAIL**  
NOT TO SCALE

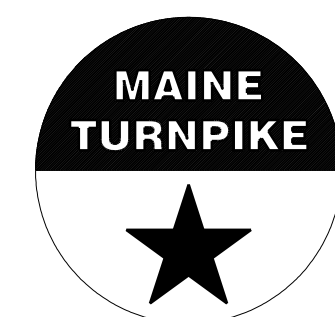
Filename: ...MSTA\_traffic ITS\_3.dgn



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

ITS DETAILS - 3

No.	Revision	By	Date

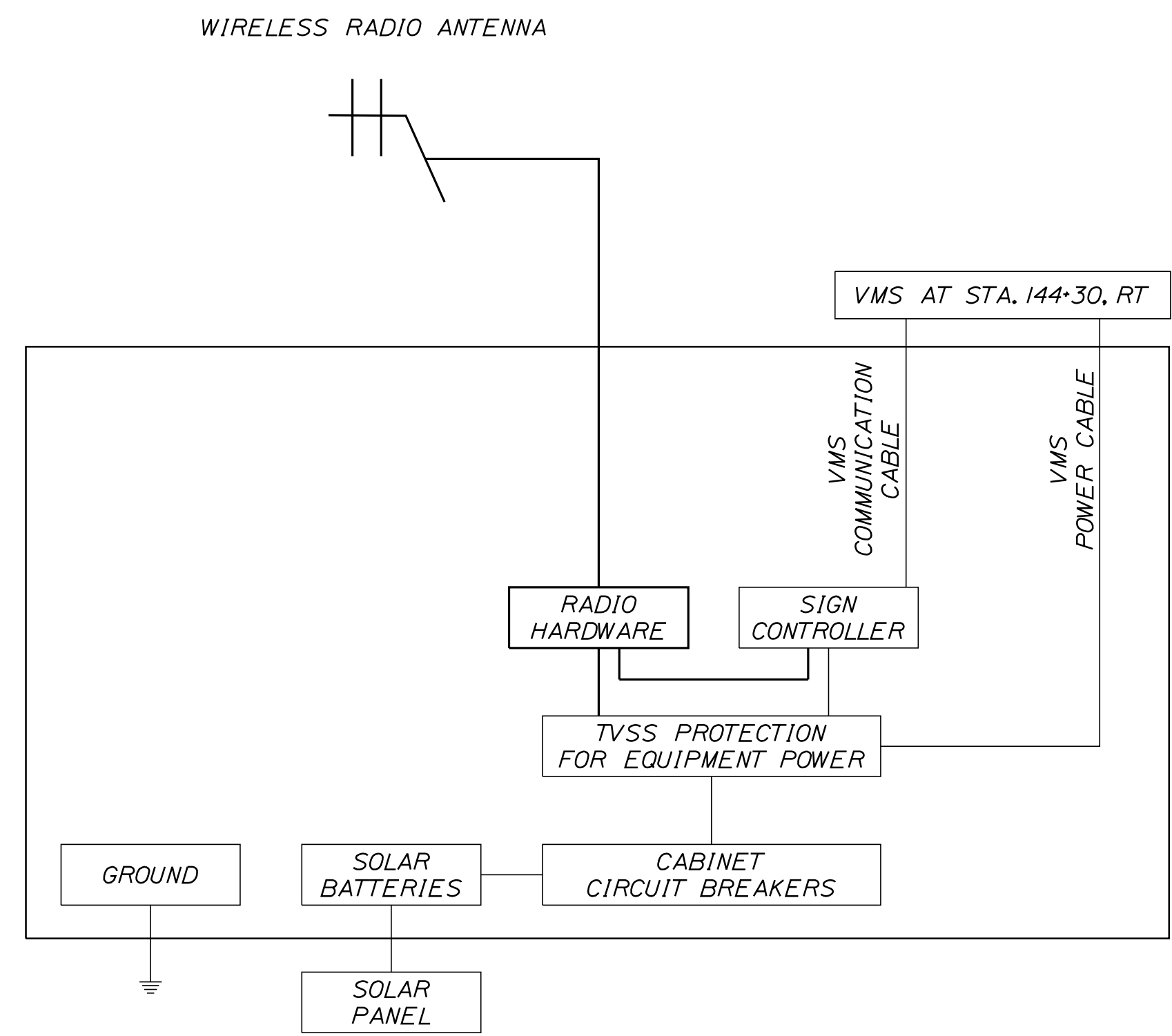
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	EGD	10\22	Checked	PJV	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

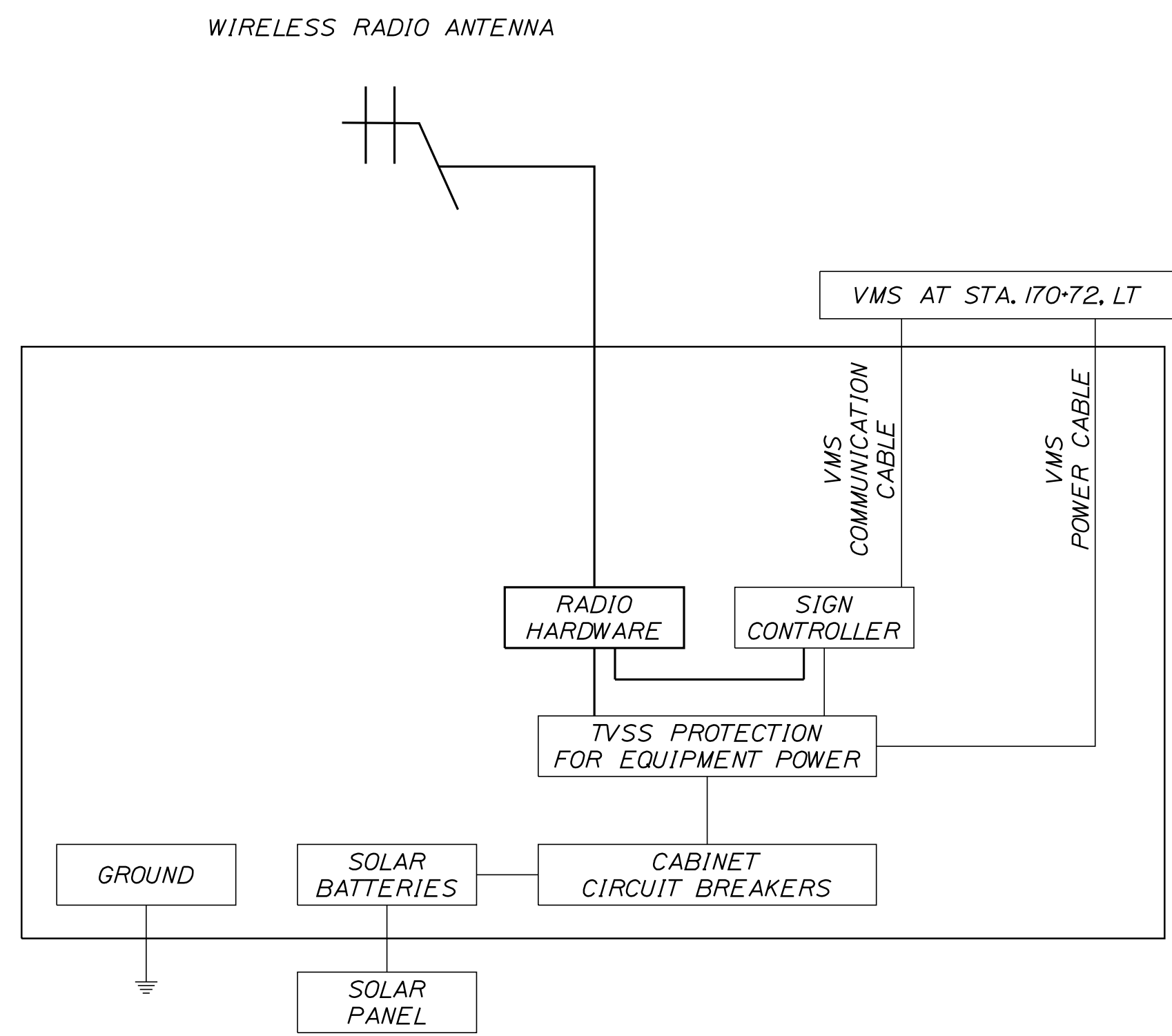
SHEET NUMBER: ITS-05

CONTRACT:2022.07

277 OF 735

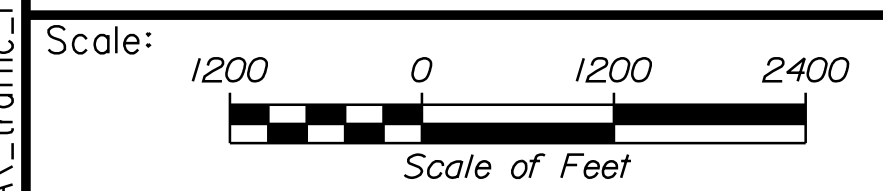


VMS AT STA. 144+30, RT CABINET  
NOT TO SCALE



VMS AT STA. 170+72, LT CABINET  
NOT TO SCALE

Filename: ...MSTA\_traffic ITS\_Diagram.dgn



No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	EGD	10\22	Checked	PJV	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

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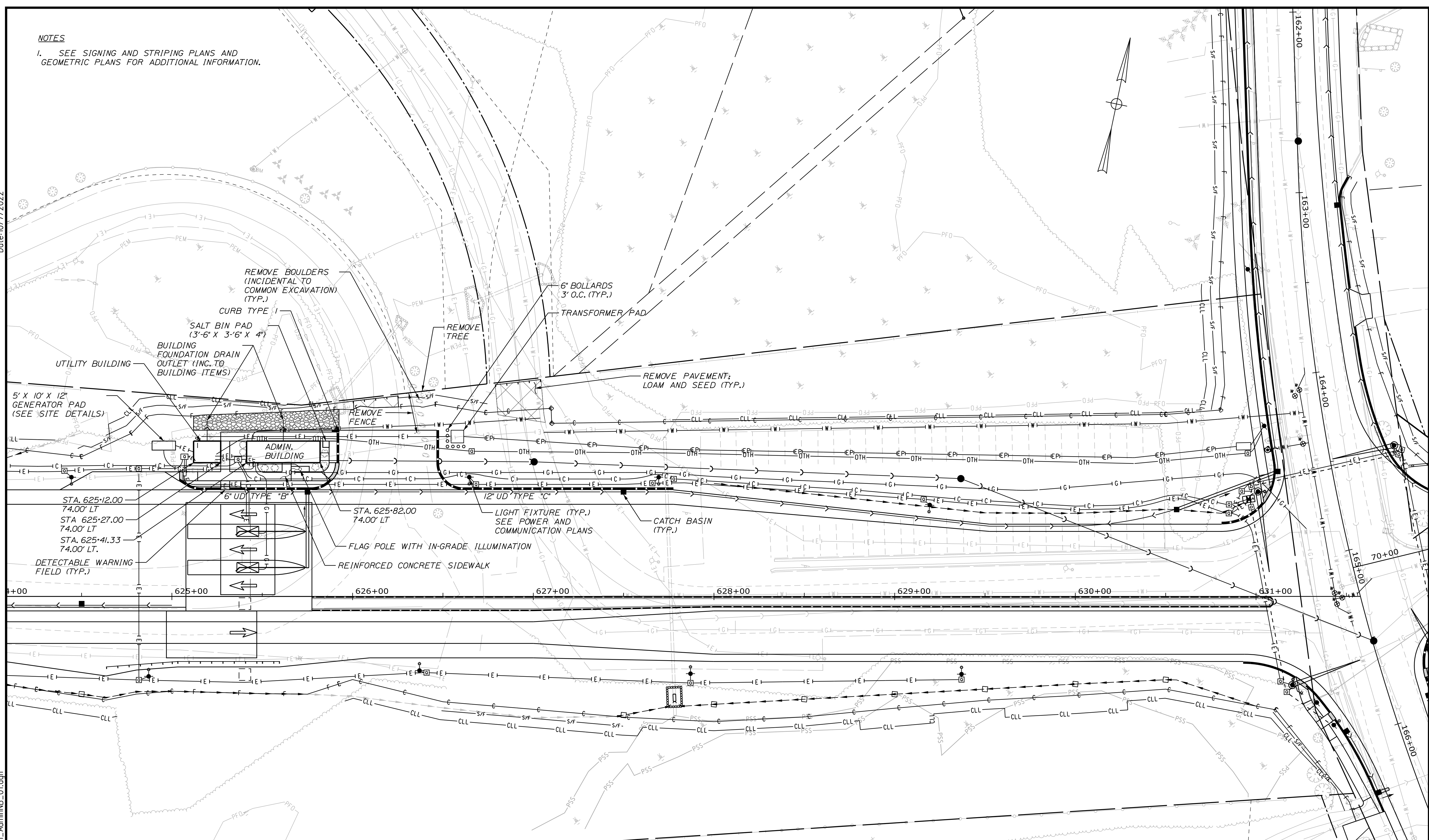


**THE GOLD STAR  
MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
ITS COMMUNICATIONS  
AND CABINET DIAGRAMS

**NOTES**  
 1. SEE SIGNING AND STRIPING PLANS AND GEOMETRIC PLANS FOR ADDITIONAL INFORMATION.

Date: 10/7/2022



Filename: ...MSTA\_Site\_Plan\_AdminNB\_01.dgn

Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	TJW	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

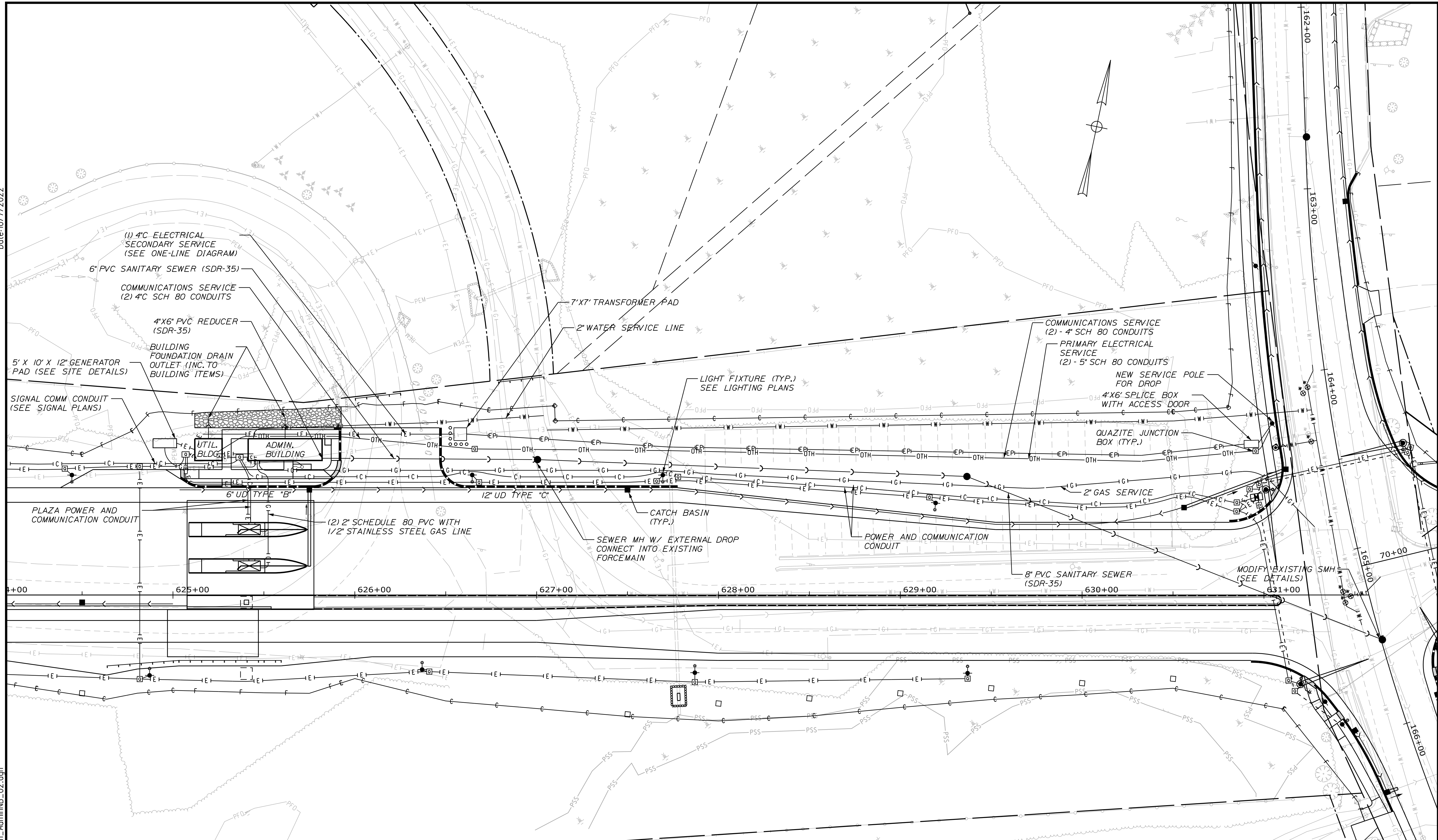
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 ADMIN BUILDING NB  
 SITE PLAN

SHEET NUMBER: SP-01  
 279 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ...Site\_UTILITY\_Plan\_AdminNB\_02.dgn



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	TJW	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

**INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35& 36)  
ADMIN BUILDING NB  
SITE UTILITY PLAN**

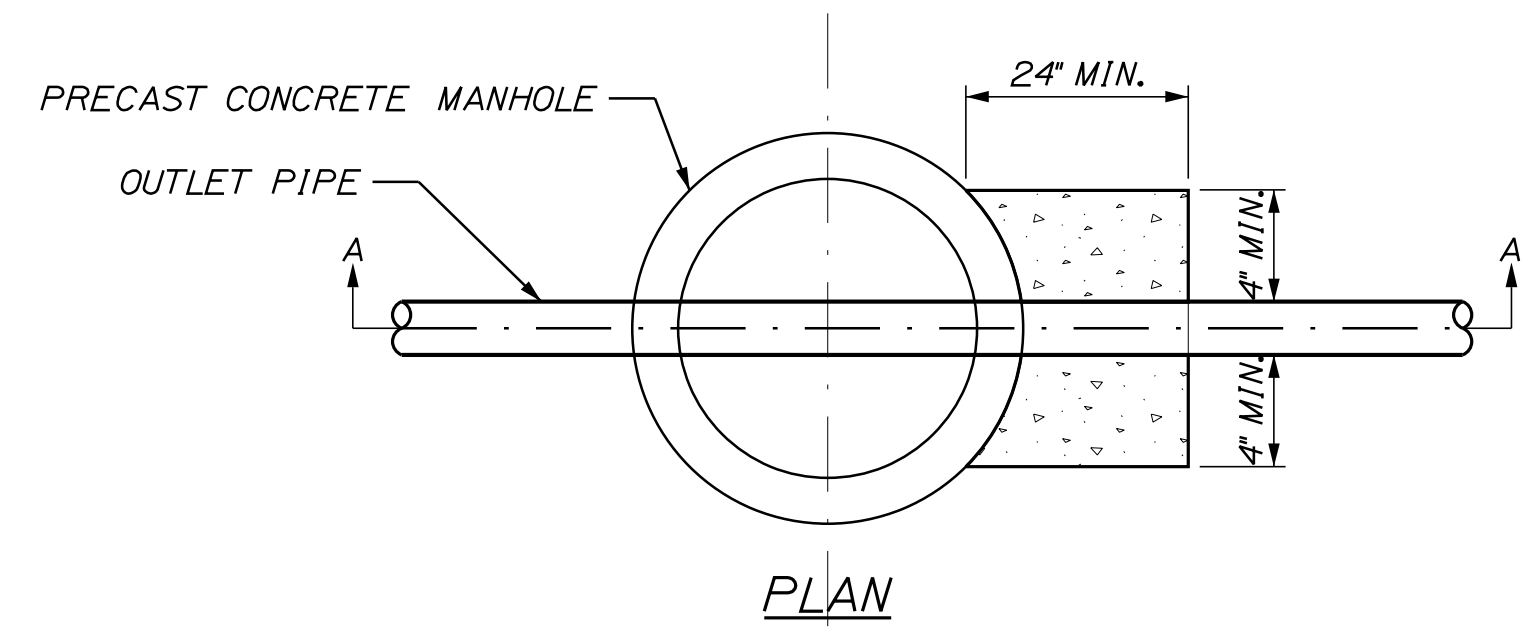
SHEET NUMBER: SP-02  
280 OF 735

CONTRACT: 2022.07

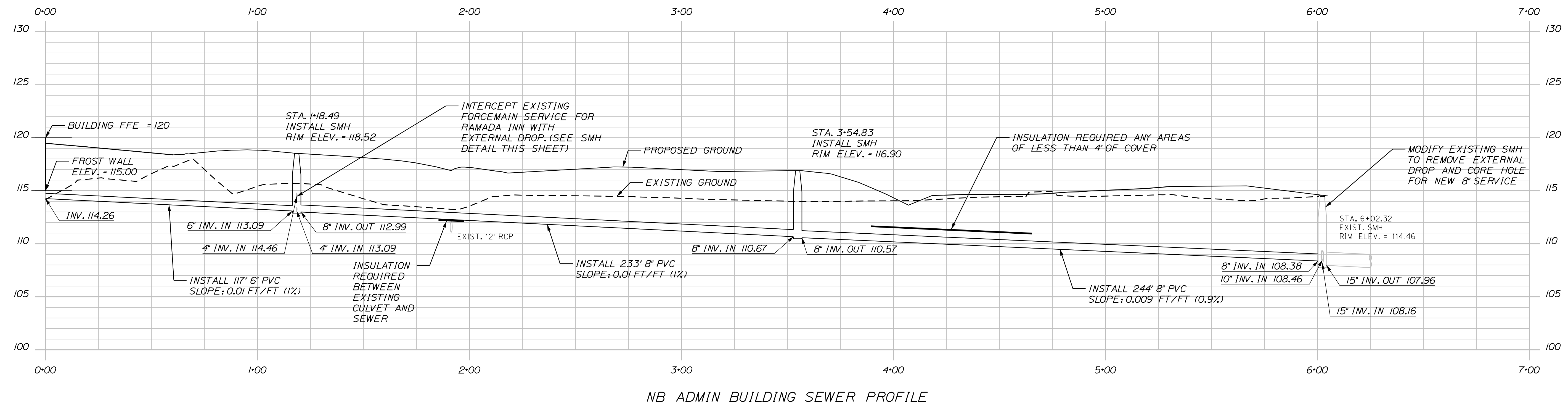
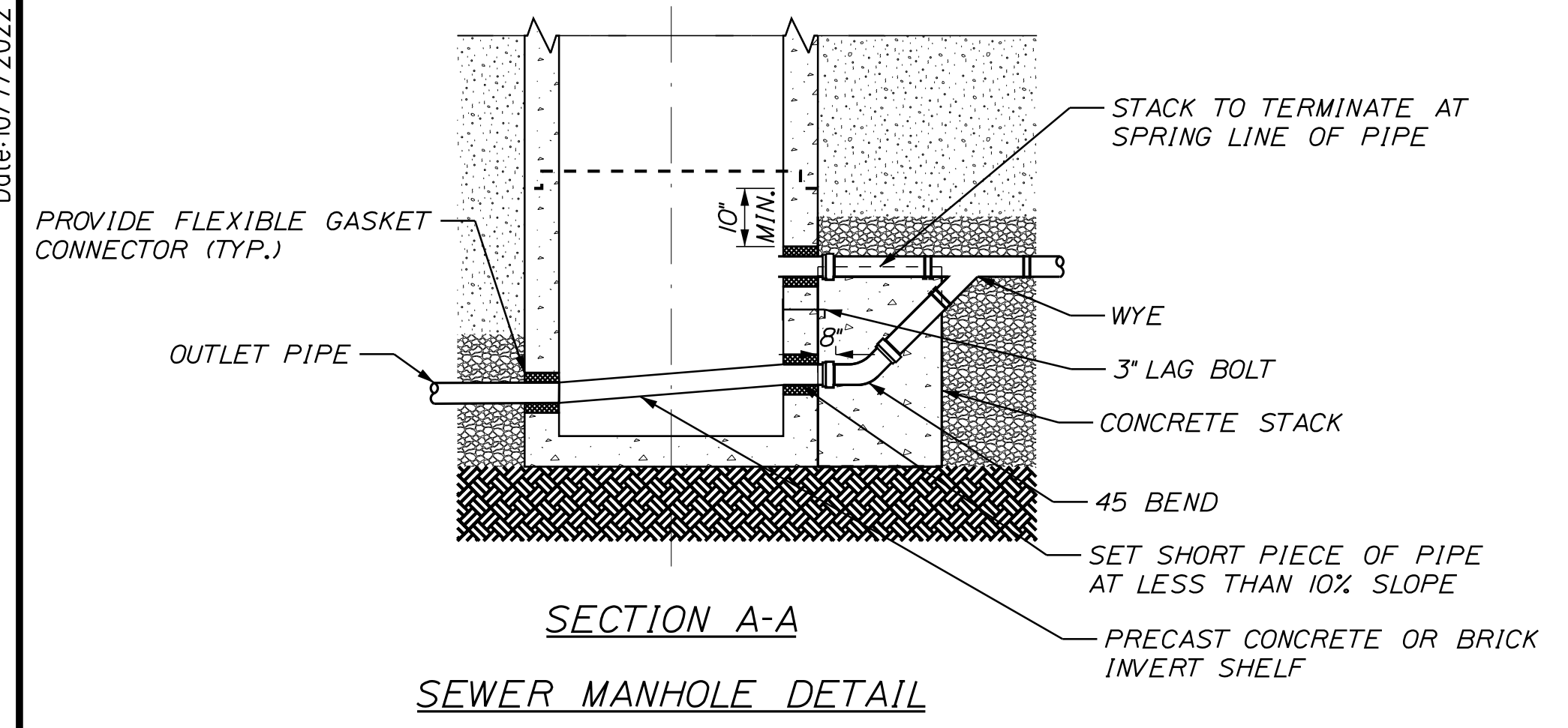




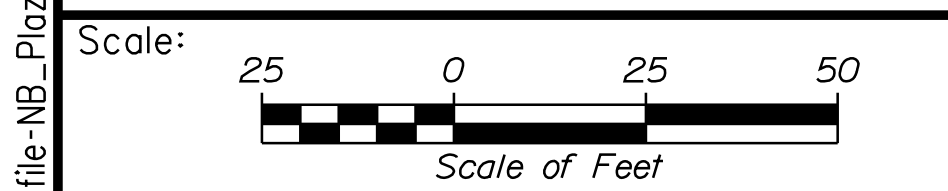
Date: 10/17/2022



**NOTES**  
 1. CONCRETE SHALL BE 4,000 PSI.



NB ADMIN BUILDING SEWER PROFILE



No.	Revision	By	Date

Designed by: **Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	PLP	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

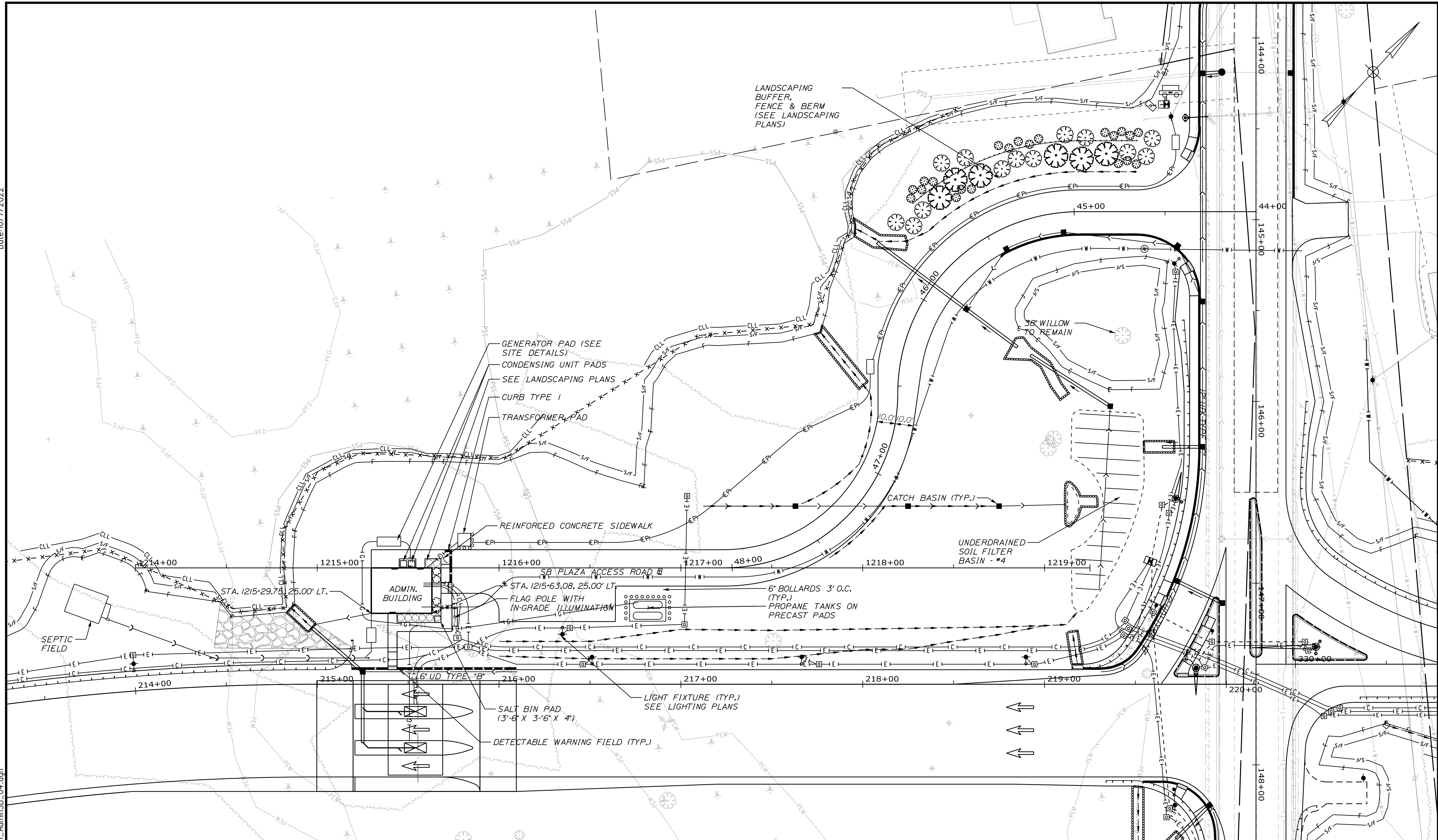
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 NB ADMIN BUILDING SEWER  
 PROFILE AND DETAILS

SHEET NUMBER: PR-23  
 CONTRACT: 2022.07  
 282 OF 735

Filename: ...Profile-NB\_Plaza\_Sewer.dgn

Date: 10/17/2022

Filename: ...MSTA\_Site\_Plan\_AdminSB\_04.dgn



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	TJW	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR MEMORIAL HIGHWAY**

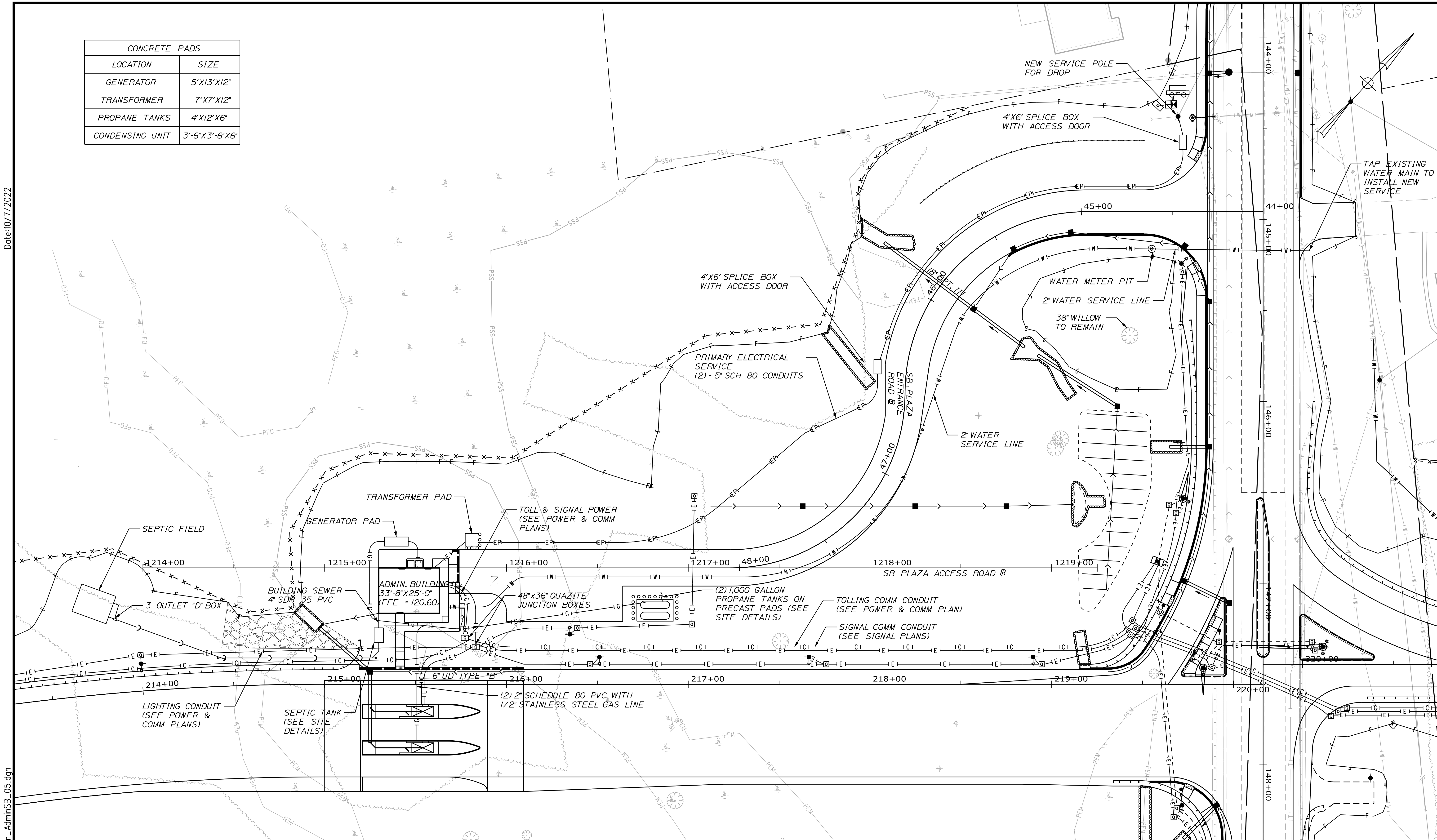
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
ADMIN BUILDING SB  
SITE PLAN

SHEET NUMBER: SP-04  
283 OF 735

CONTRACT: 2022.07

CONCRETE PADS	
LOCATION	SIZE
GENERATOR	5'X13'X12"
TRANSFORMER	7'X7'X12"
PROPANE TANKS	4'X12'X6'
CONDENSING UNIT	3'-6"X3'-6"X6"



Date: 10/17/2022

Filename: ...Site\_Utility\_Plan\_AdminSB\_05.dgn

Scale: Scale of Feet


No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	TJW	10\22	In Charge of	LEM	10\22

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## THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

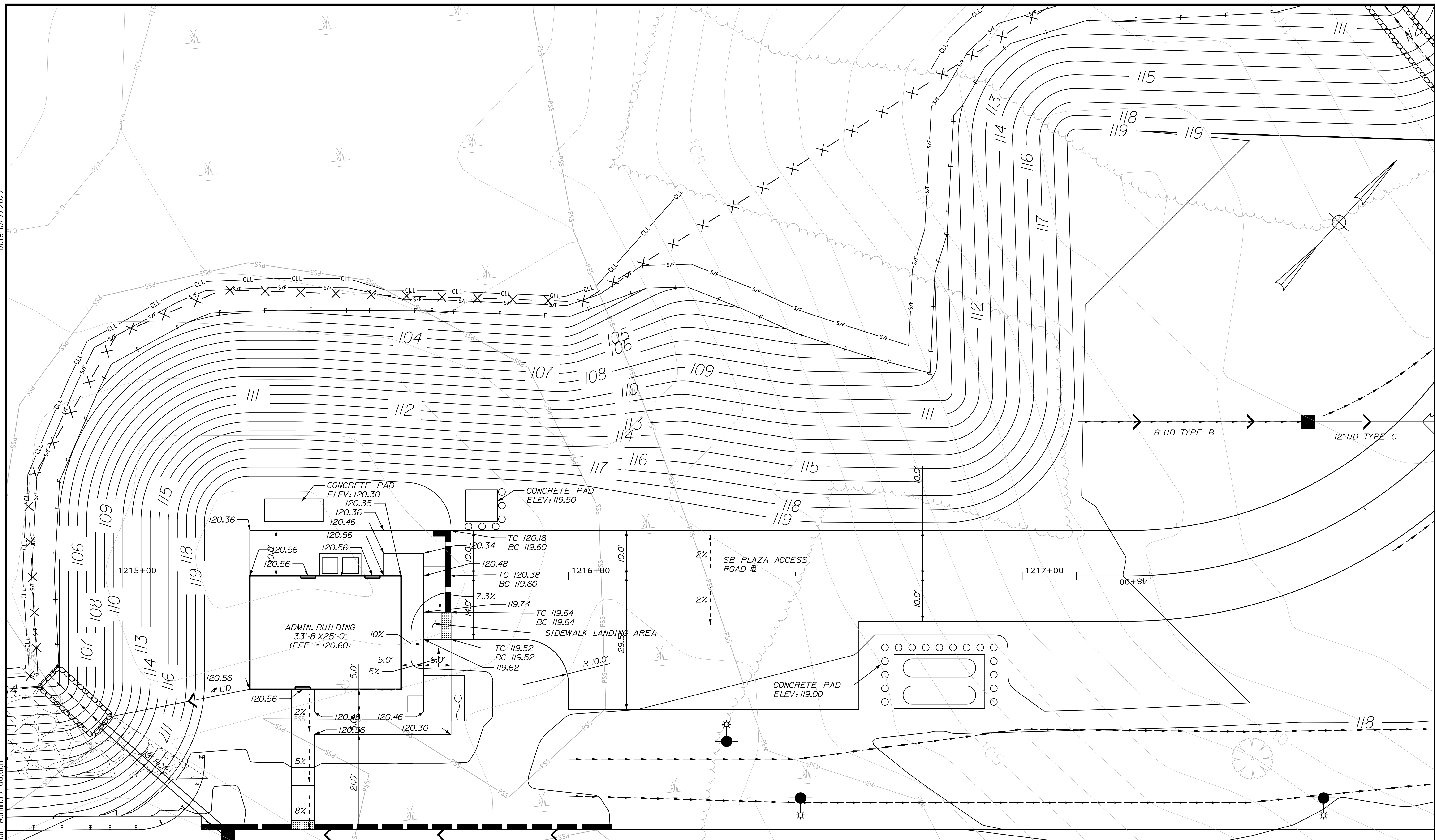
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 ADMIN BUILDING SB  
 SITE UTILITY PLAN

SHEET NUMBER: SP-05  
 284 OF 735

CONTRACT: 2022.07

Date: 10/17/2022

Filename: ... \Site\_Grading\_Plan\_AdminSB\_06.dgn



Scale: 1" = 20'

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

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Designed	PLP	10\22	Checked	JRH	10\22
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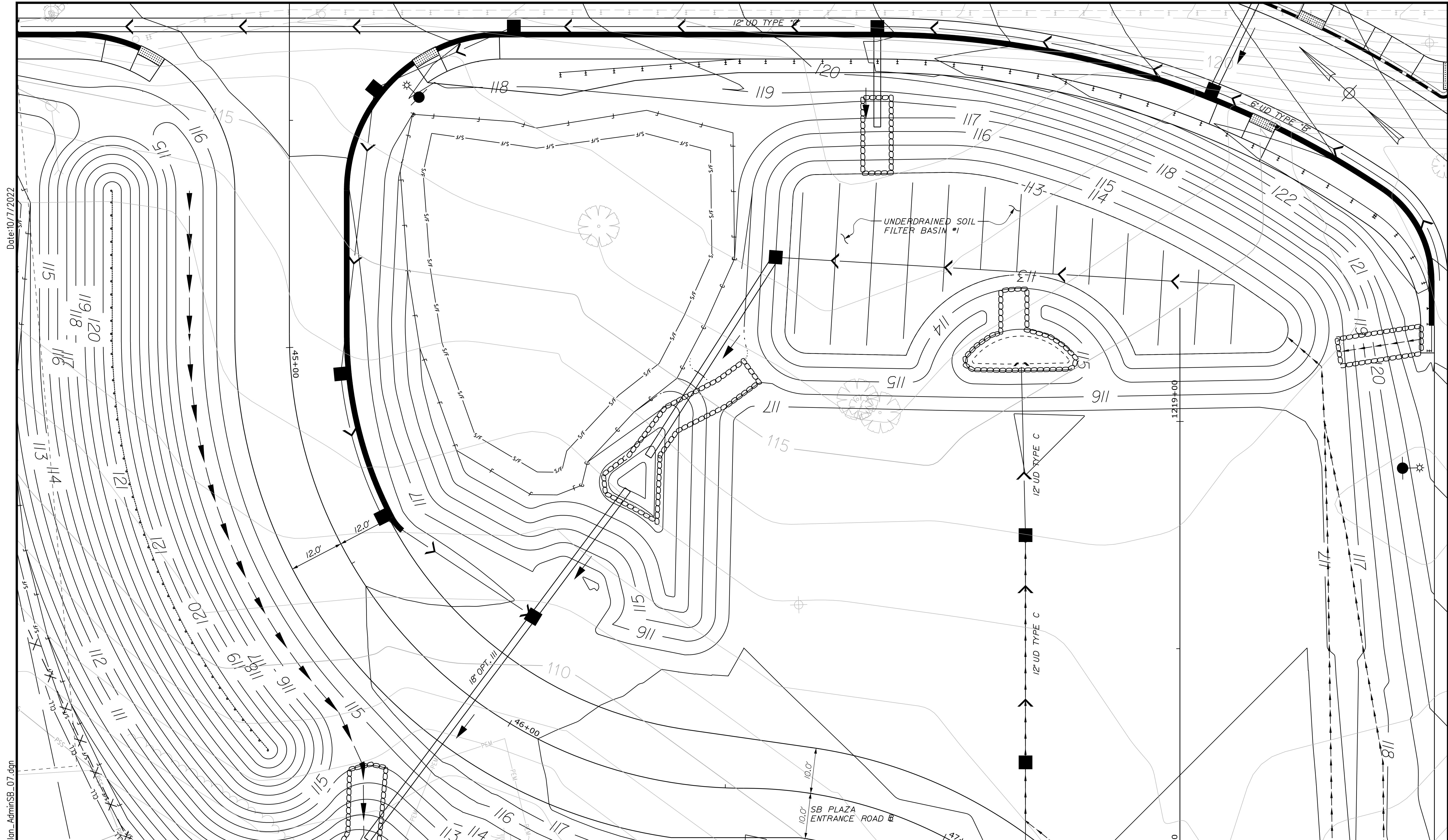
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 ADMIN BUILDING SB  
 SITE GRADING & DRAINAGE PLAN-1

SHEET NUMBER: SP-06  
 285 OF 735

CONTRACT: 2022.07



Date: 10/7/2022

Filename: ...Site\_Grading\_Plan\_AdminSB\_07.dgn

Scale: Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	TJW	10\22	In Charge of	LEM	10\22

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

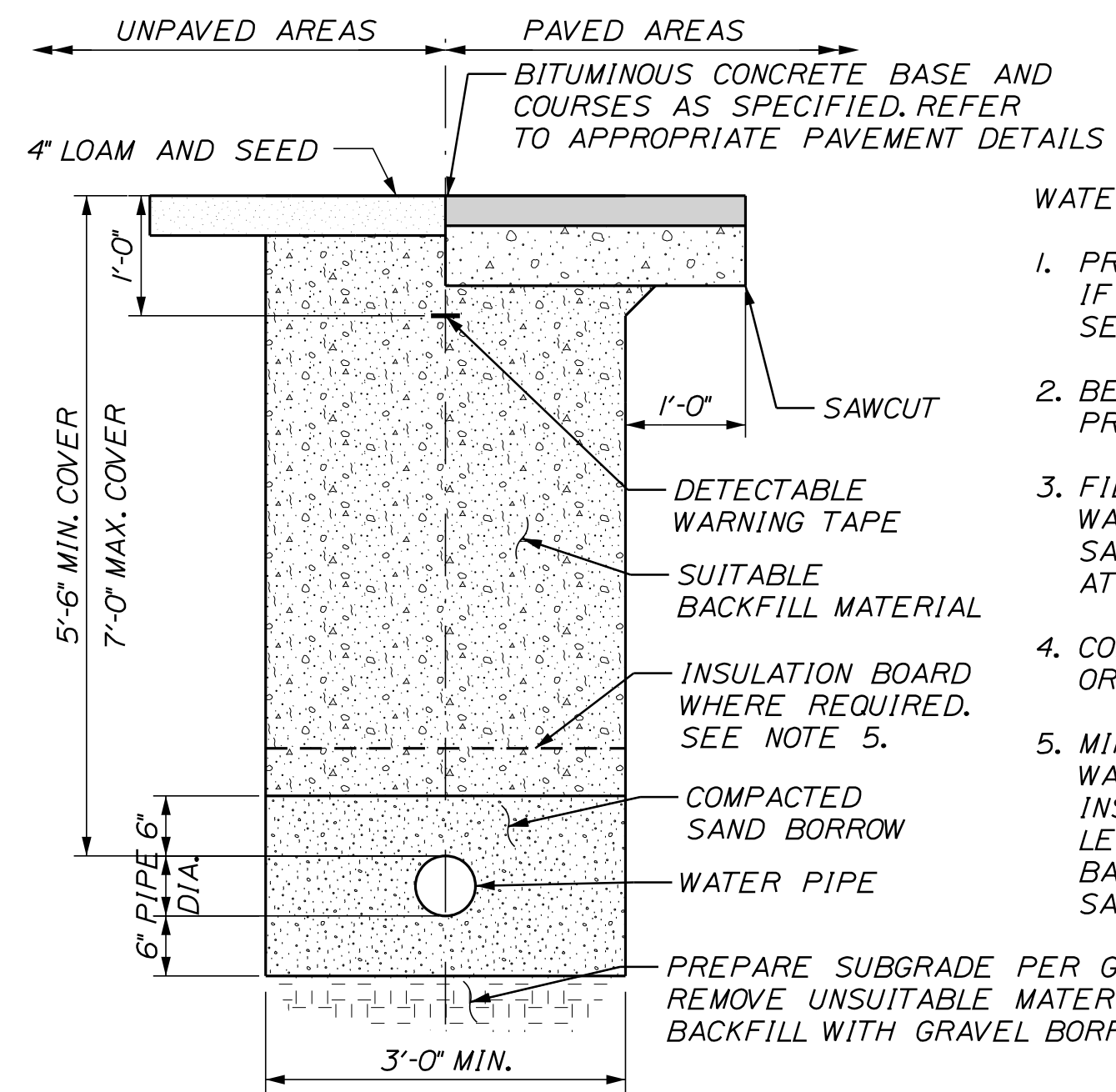
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35& 36)  
 ADMIN BUILDING SB  
 SITE GRADING & DRAINAGE PLAN-2

SHEET NUMBER: SP-07  
 286 OF 735

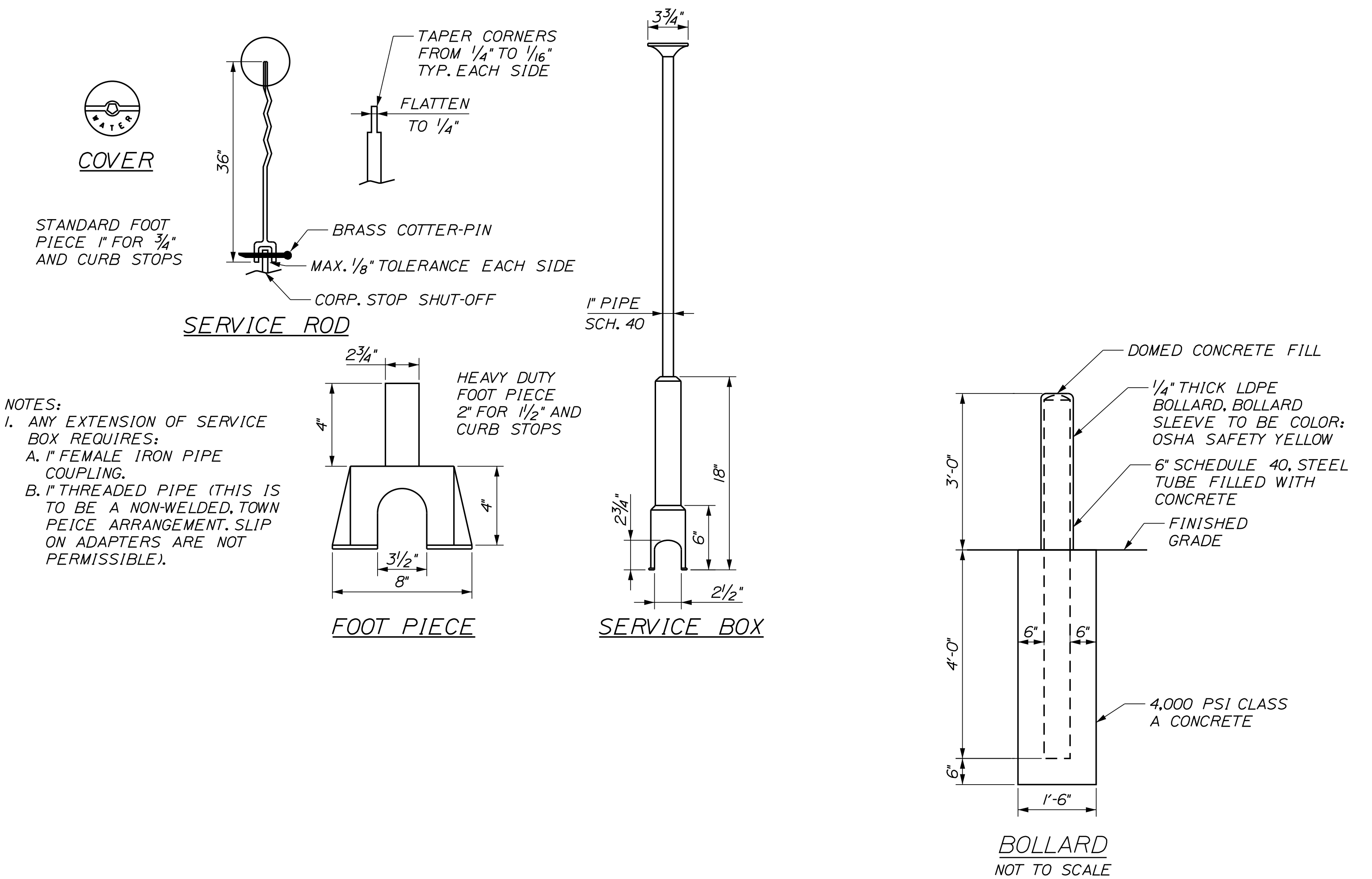
CONTRACT: 2022.07

Date: 10/17/2022

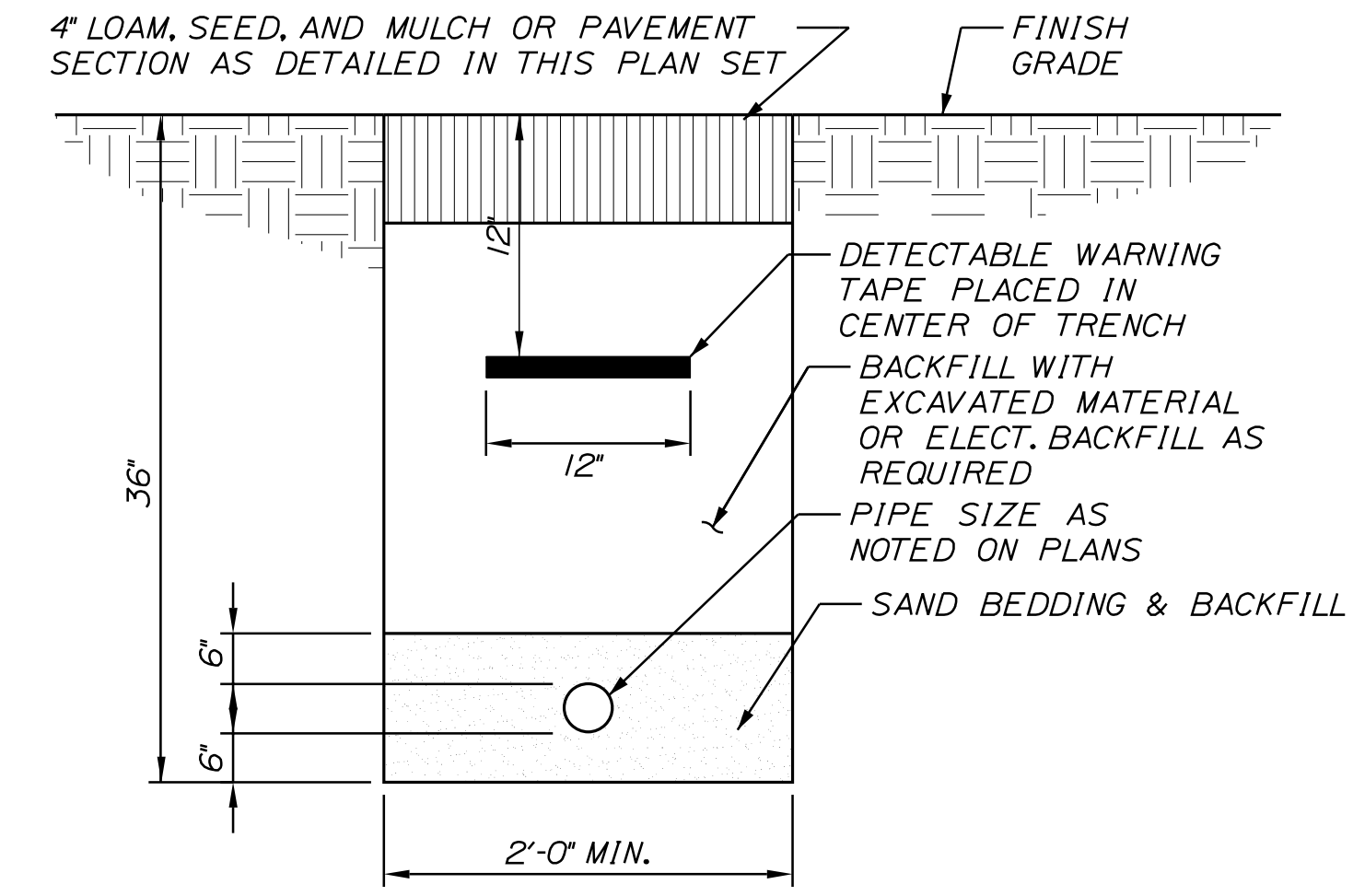


- WATER SERVICE NOTES:**
1. PROVIDE 7 FOOT COVER WHERE LOCATED UNDER PAVEMENT. IF BEDROCK IS ENCOUNTERED, PROVIDE MINIMUM 1 FOOT SEPARATION AND INSULATE AS NOTED BELOW.
  2. BEDDING SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY.
  3. FILTER FABRIC SHALL BE INSTALLED AGAINST THE TRENCH WALLS IN THE HAUNCHING AND BEDDING ZONES WHEN FINE SANDS, SILT, CLAY OR ORGANIC MATERIALS ARE ENCOUNTERED AT THE TRENCH BOTTOM.
  4. CONTRACTOR SHALL SHORE TRENCH SIDES WHEN REQUIRED OR AS DIRECTED BY THE RESIDENT.
  5. MINIMUM 2" THICK INSULATION SHALL BE INSTALLED WHEN WATER PIPING HAS LESS THAN 5'-6" COVER. MINIMUM 4" THICK INSULATION SHALL BE INSTALLED WHEN WATER PIPING HAS LESS THAN 4'-6" COVER. WHEN CROSSING ABOVE OR BESIDE BASINS, INSULATION SHALL BE INSTALLED UTILIZING THE SAME CRITERIA.

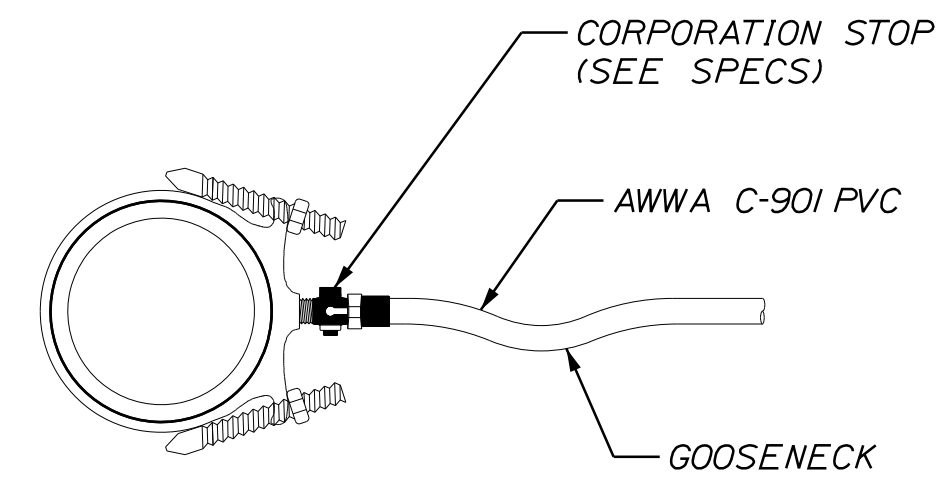
**WATER SERVICE DETAIL**  
NOT TO SCALE



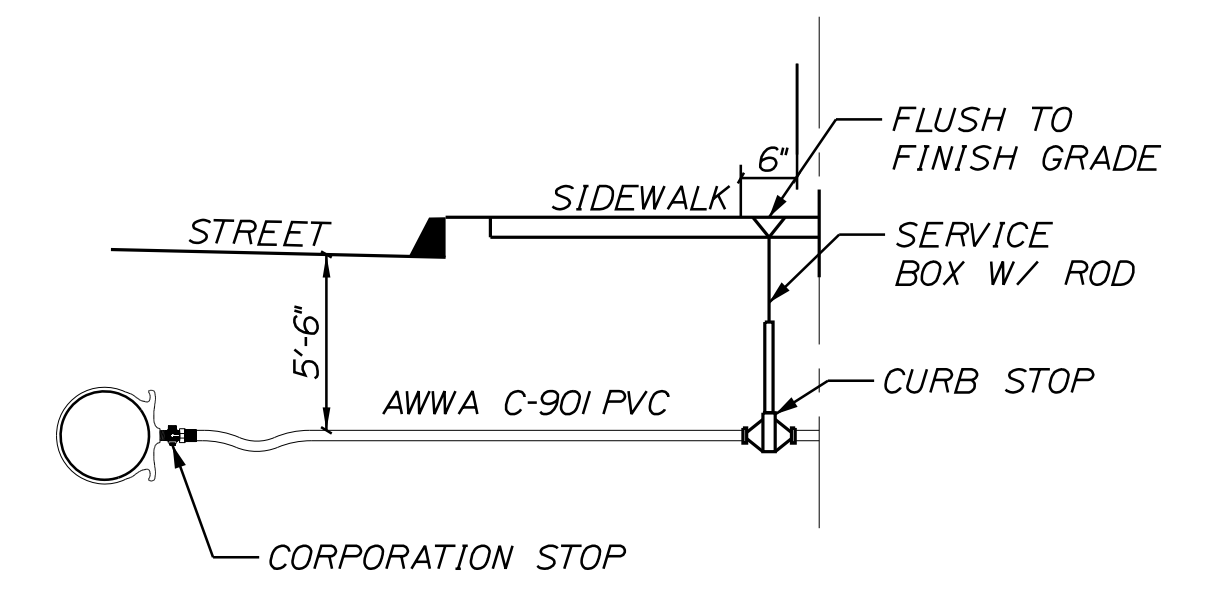
- NOTES:**
1. ANY EXTENSION OF SERVICE BOX REQUIRES:
    - A. 1" FEMALE IRON PIPE COUPLING.
    - B. 1" THREADED PIPE (THIS IS TO BE A NON-WELDED, TOWN PEICE ARRANGEMENT. SLIP ON ADAPTERS ARE NOT PERMISSIBLE).



**PROPANE SERVICE TRENCH SECTION**  
NOT TO SCALE



**SERVICE SADDLE**  
(1-1/2" AND 2" C.C. THREAD)



**TYPICAL SERVICE CONNECTION**  
NOT TO SCALE

Filename: ...HIGHWAY.MSTA\...Details\_Site.dgn

Scale:

No.	Revision	By	Date

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**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	PLP	10\22	Checked	JRH	10\22
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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

**SITE DETAILS 1**

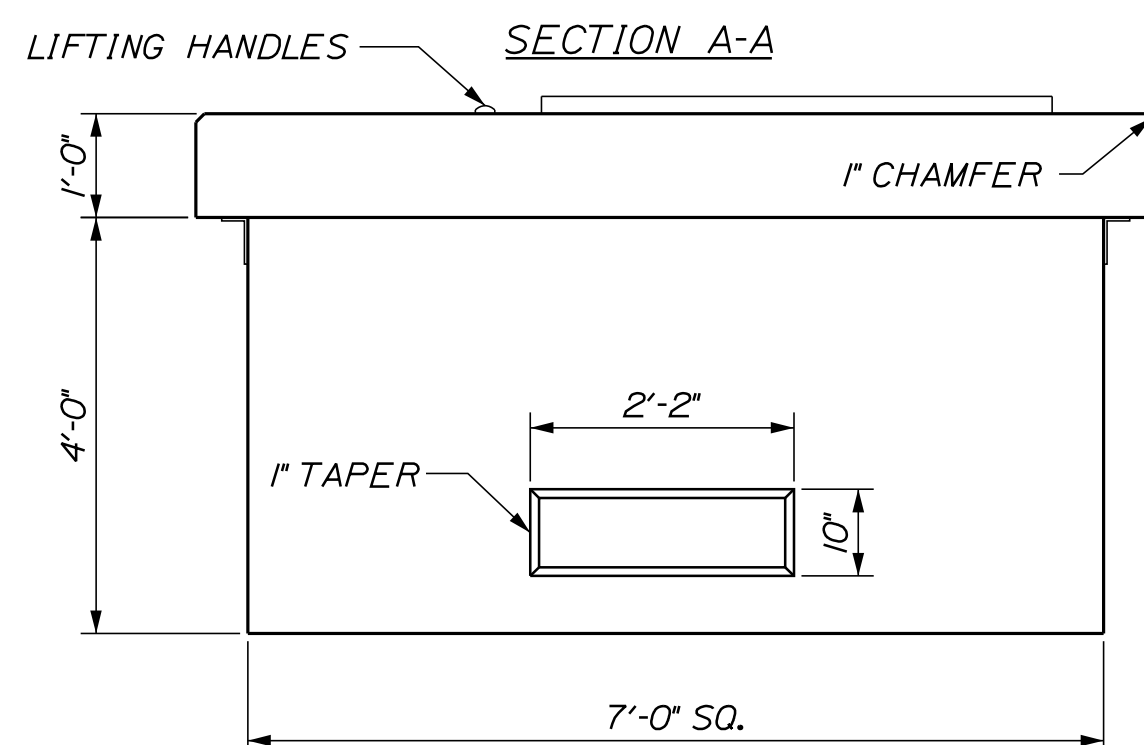
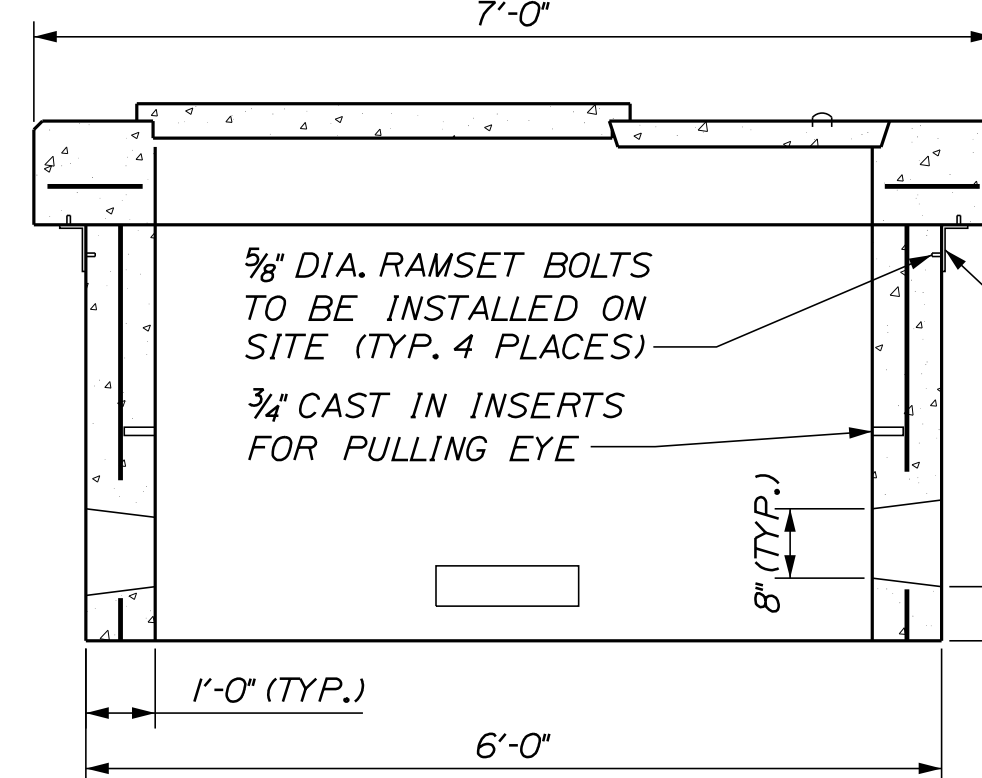
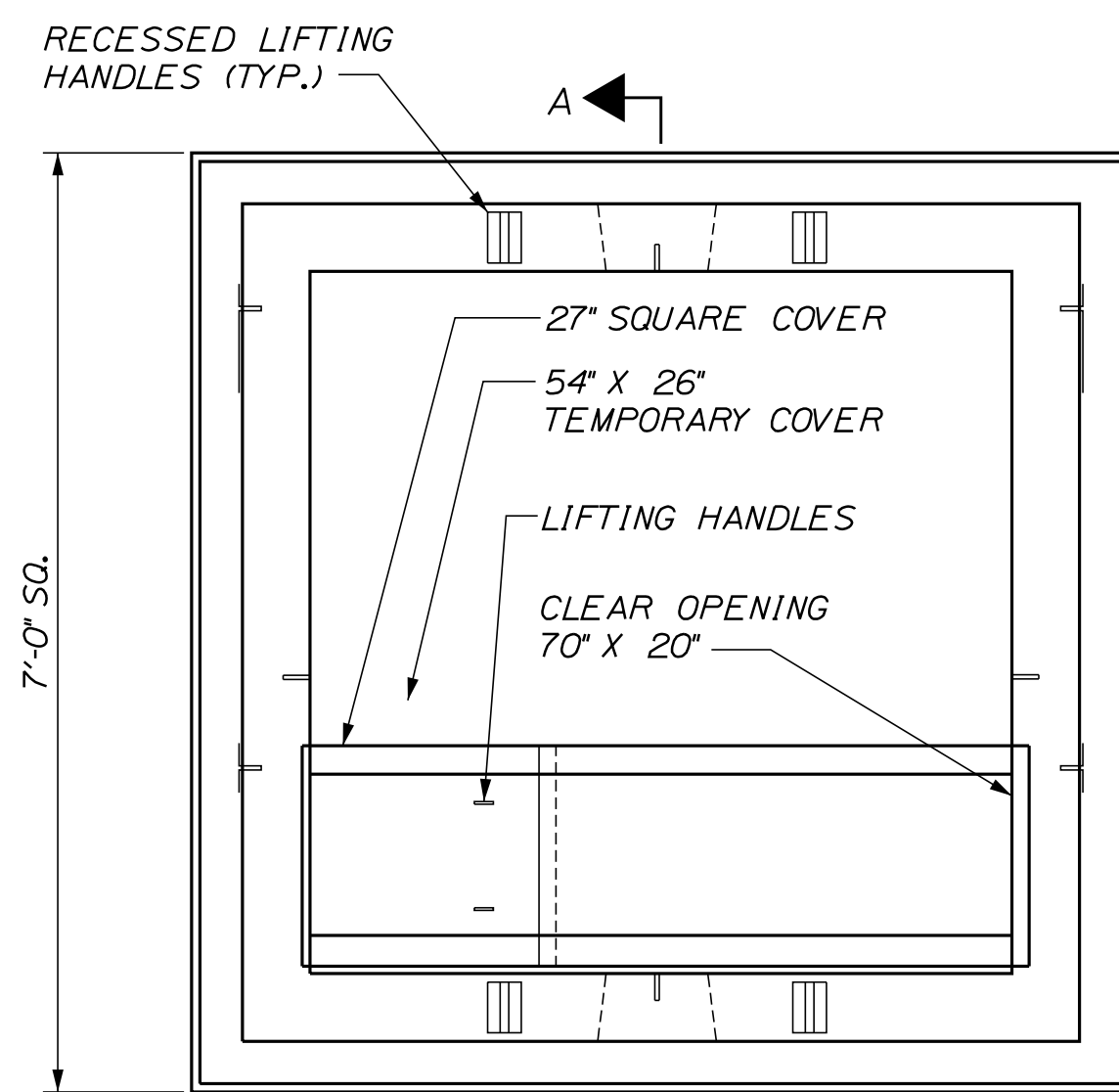
SHEET NUMBER: SP-06  
287 OF 735

CONTRACT: 2022.07





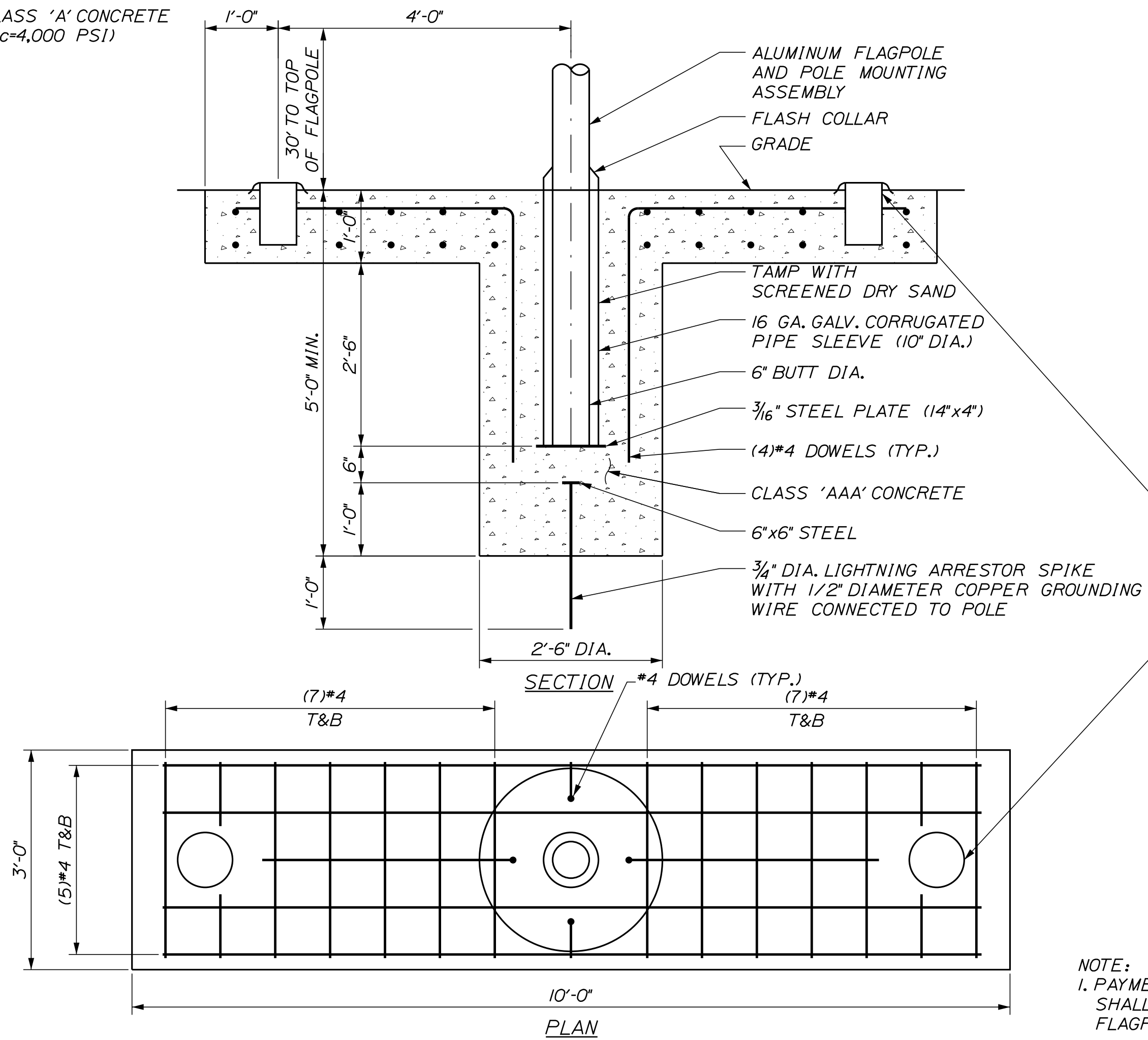
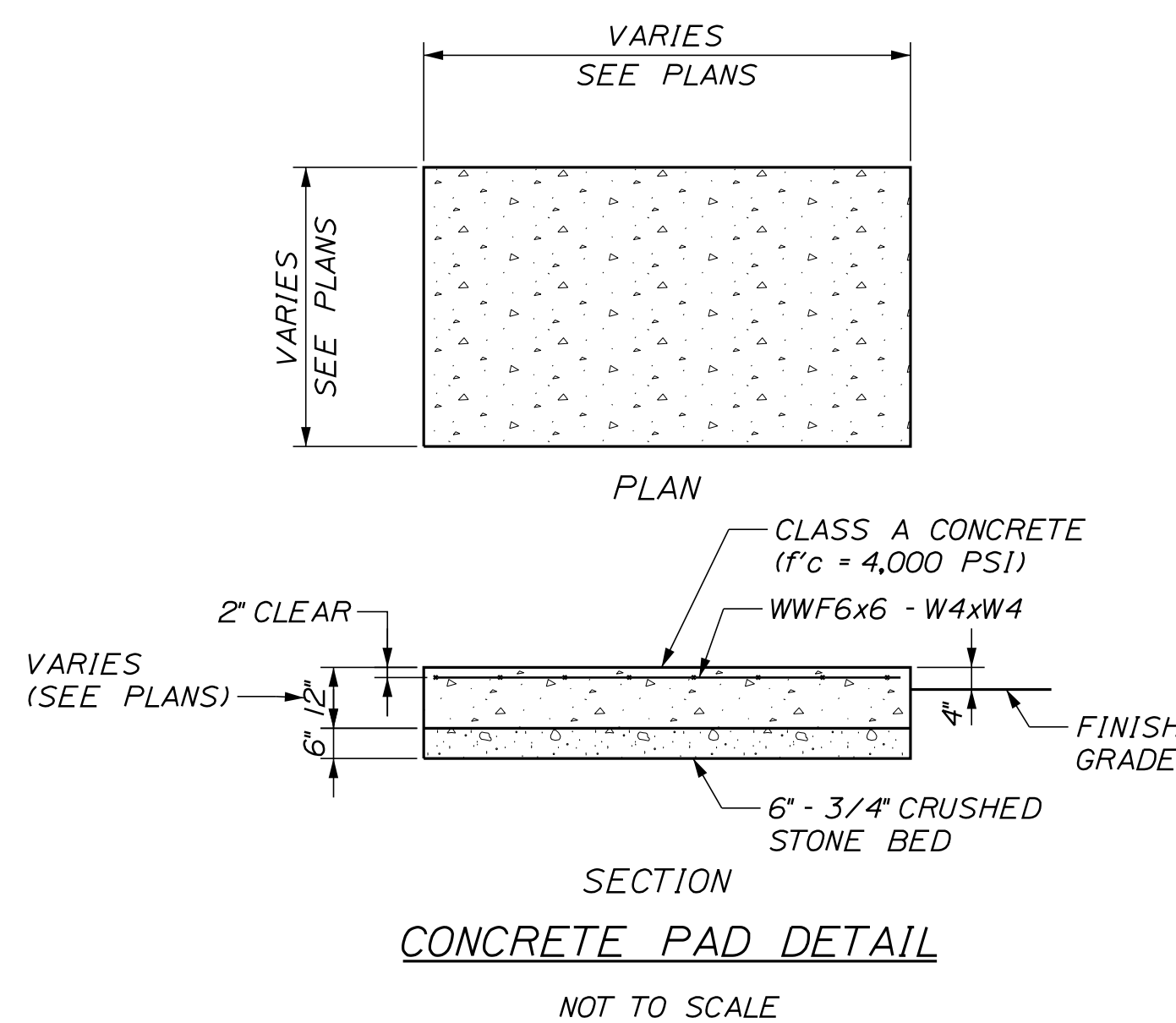
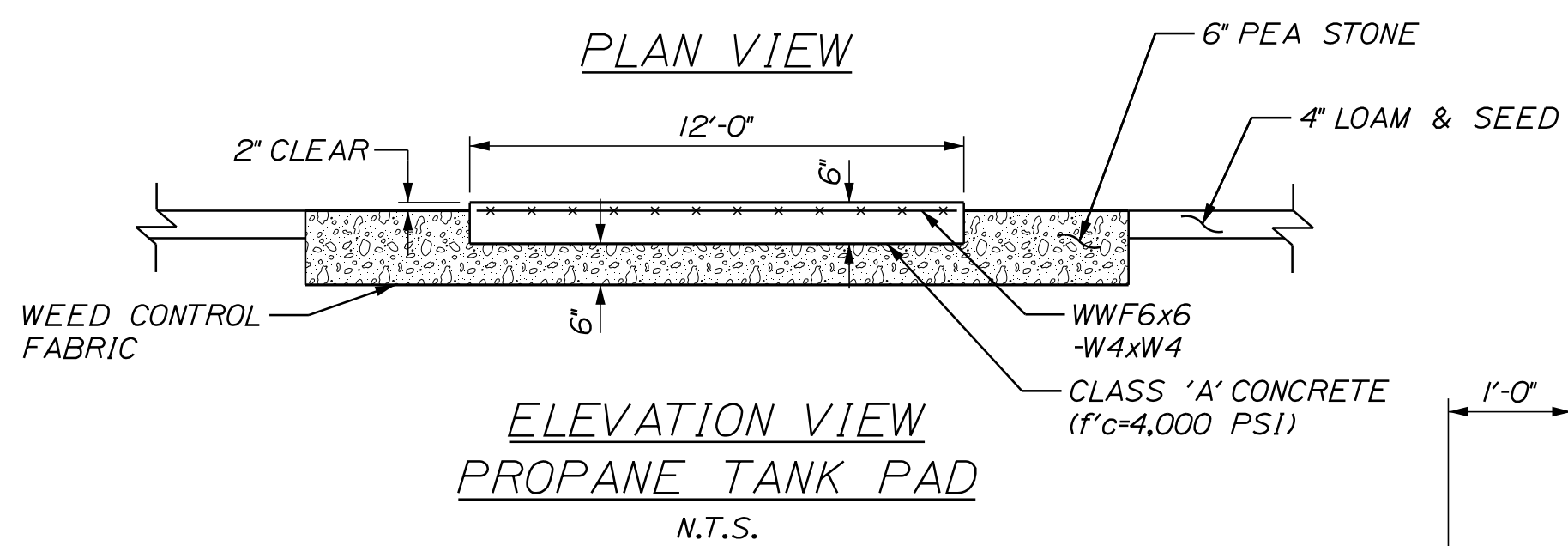
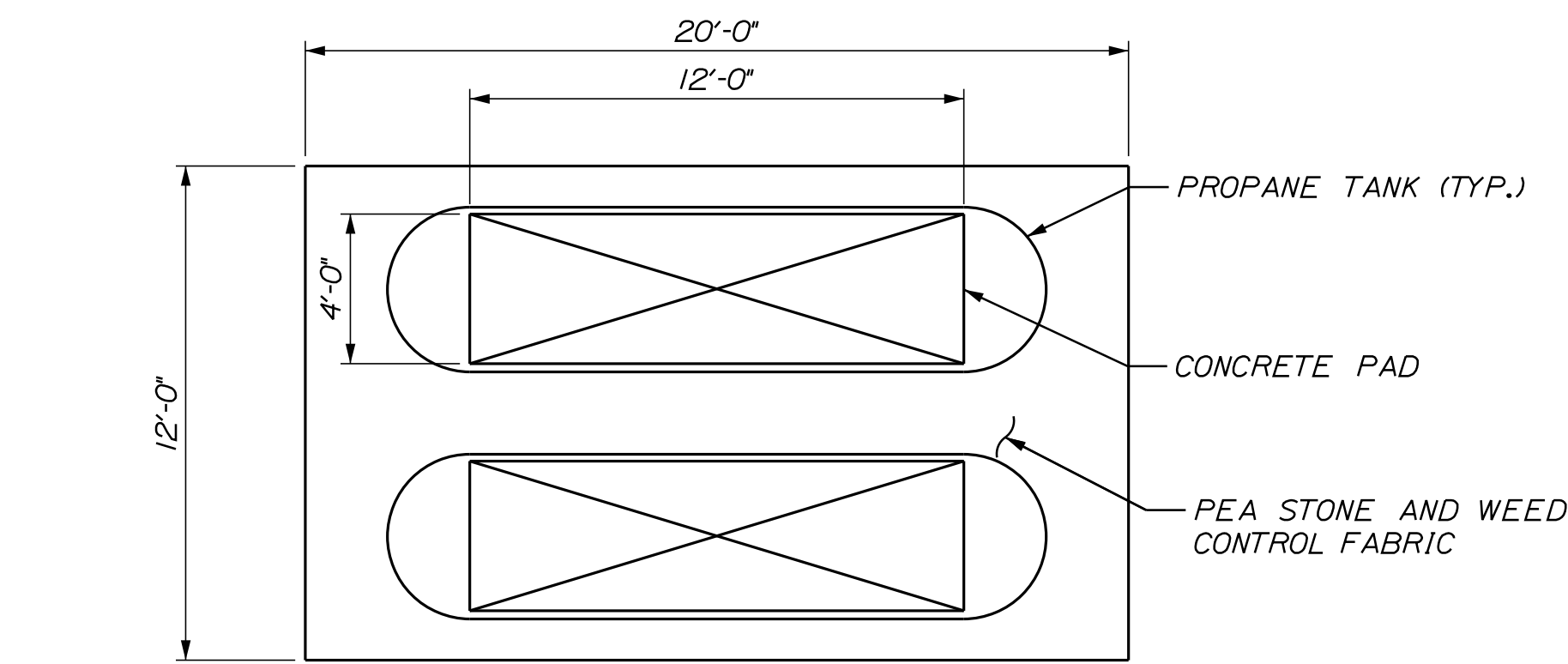
Date: 10/17/2022



- NOTES:
1. CONCRETE 4,000 PSI AT 28 DAYS.
  2. REINFORCING #4 BARS AT 6" O.C. EACH WAY.
  3. DUCT OPENINGS SHOWN ARE TYPICAL AND CAN BE MODIFIED PER REQUEST.
  4. TRANSFORMER PAD SHALL MEET CENTRAL MAINE POWER COMPANY SPECIFICATIONS.
  5. TEMPORARY COVER HAS (2) 5/8" THREADED LIFTING INSERTS CAST IN.

NOTE:  
CONFIRM TRANSFORMER PAD SIZES WITH OWNER. DIVISION 2 CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE TRANSFORMER PAD.

7'-0" TRANSFORMER PAD  
NOT TO SCALE



TYPE C LED IN GRADE FLAG LUMINAIRE - INSTALL WITH 6" OF CONCRETE WITH REBAR ALL ROUND. INSTALL PER LUMINAIRE MANUFACTURERS RECOMMENDATIONS. FOR ELECTRICAL INSTALLATION NOTES, SEE SHEET LP-05.

NOTE:  
1. PAYMENT FOR FLAGPOLE FOUNDATION SHALL BE INCIDENTAL TO ITEM 648.00 FLAGPOLE AND SPOTLIGHT.

FLAGPOLE FOUNDATION DETAILS  
NOT TO SCALE

No.	Revision	By	Date

Designed by:

Stantec

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

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MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

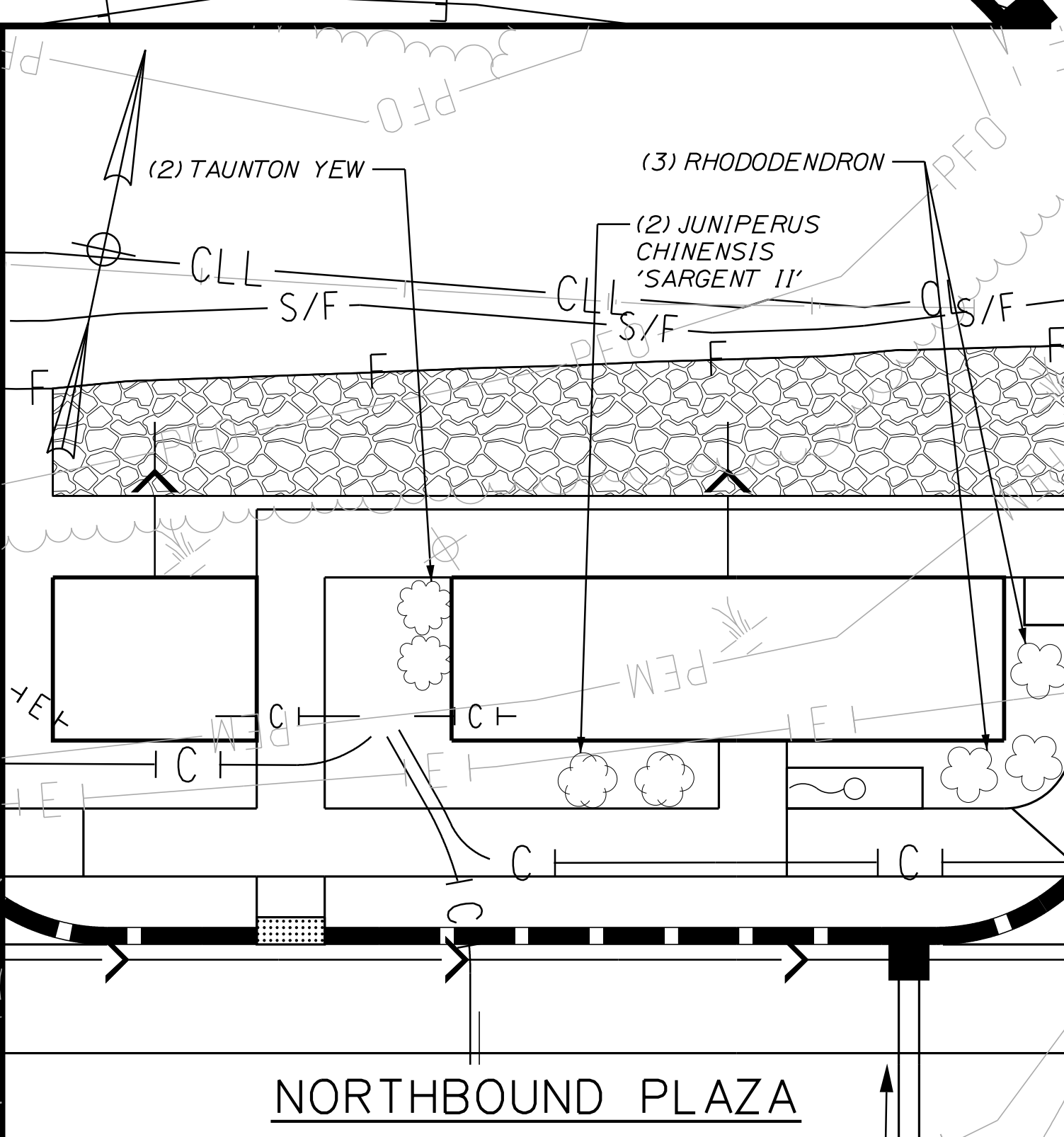
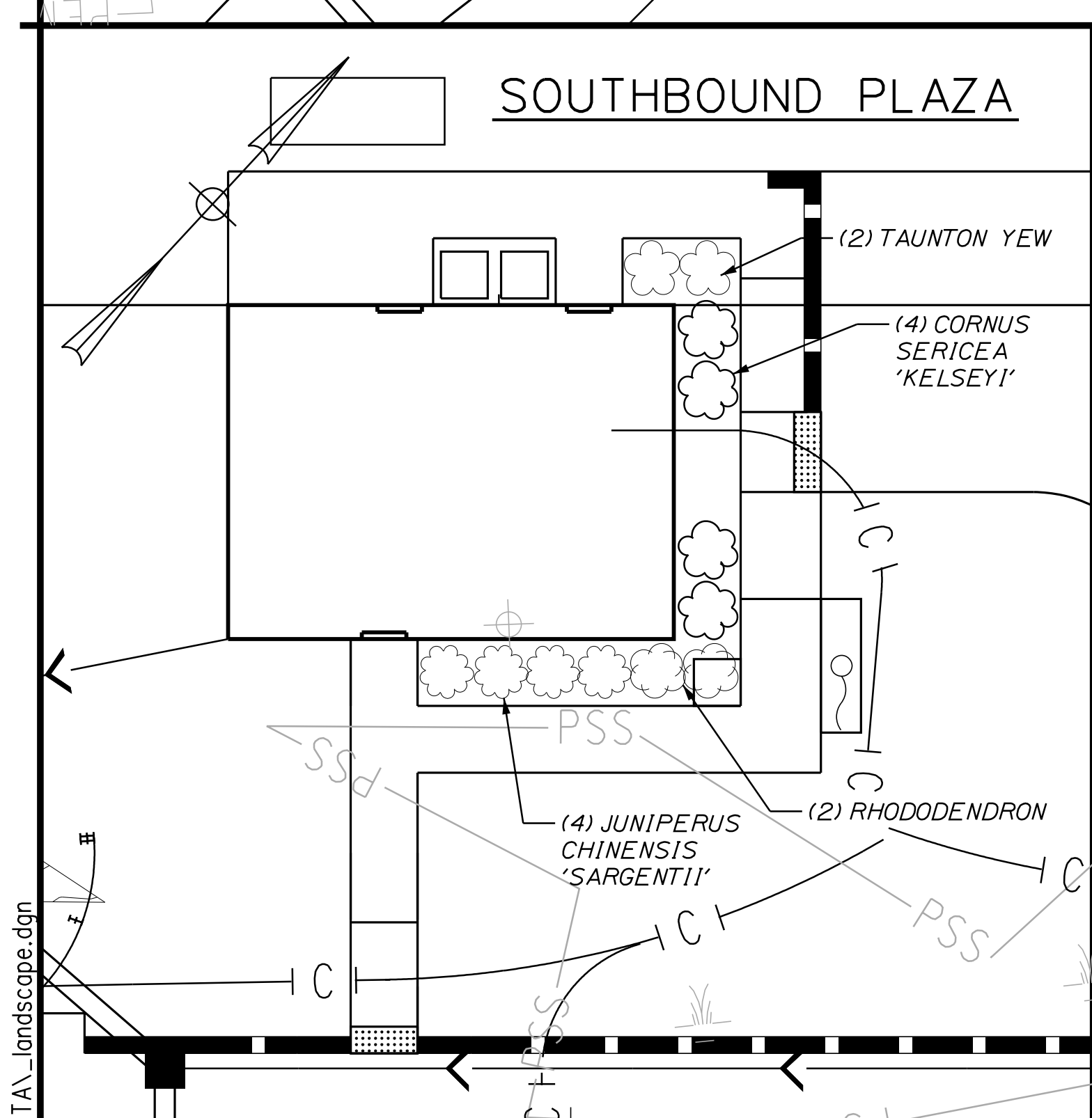
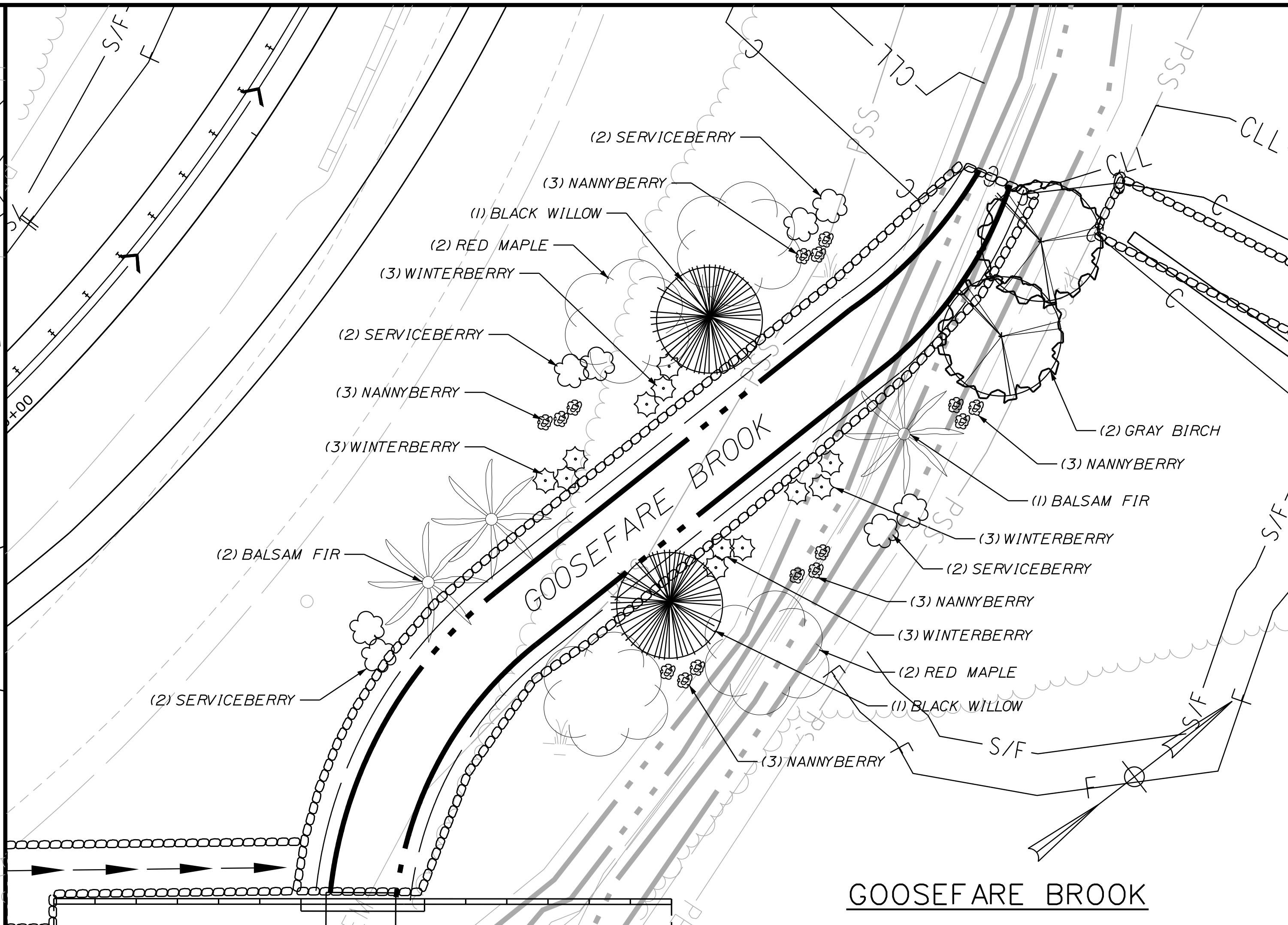
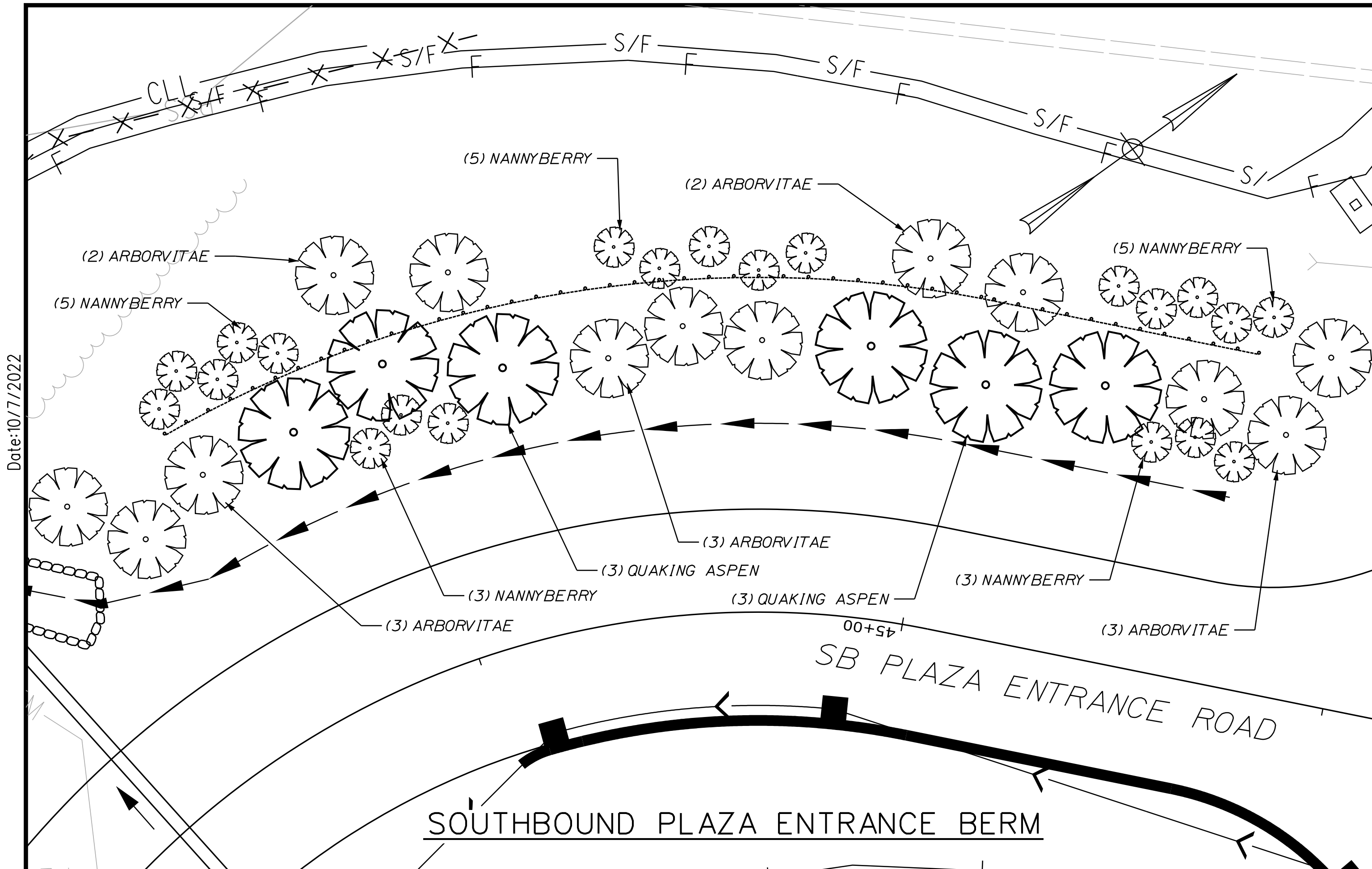
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

SITE DETAILS 3

SHEET NUMBER: SP-08  
289 OF 735

CONTRACT: 2022.07

Filename: ...HIGHWAY.MSTA\...Details\_Site.dgn



PLANTING SCHEDULE - SOUTHBOUND PLAZA ENTRANCE BERM

ITEM NO.	DESCRIPTION	QUANTITY
621.046	ARBORVITAE 8 - 10 FEET	13 EA
621.273	QUAKING ASPEN 2-2.5 INCH CALIPER	6 EA
621.552	NANNYBERRY 3 - 4 FEET	21 EA

NEW ENGLAND ROADSIDE UPLAND SEED MIX (OR EQUIVALENT)

PLANTING SCHEDULE - GOOSEFARE BROOK

ITEM NO.	DESCRIPTION	QUANTITY
621.264	GRAY BIRCH 8-10 FEET MULTI-STEM	2 EA
621.273	RED MAPLE 2-2.5 INCH CALIPER	4 EA
621.273	BALSAM FIR 2-2.5 INCH CALIPER	3 EA
621.273	BLACK WILLOW 8-10 FEET	2 EA
621.552	NANNYBERRY 3-4 FEET	15 EA
621.552	WINTERBERRY 3-4 FEET	12 EA
621.552	SERVICEBERRY 3-4 FEET MULTI-STEM	8 EA

PLANTING SCHEDULE - SOUTHBOUND PLAZA

ITEM NO.	DESCRIPTION	QUANTITY
621.389	SARGENT JUNIPER 15-18 INCHES	4 EA
621.401	TAUNTON YEW 2 - 2.5 FEET	2 EA
621.513	RHODODENDRON 2.5-3 FEET	2 EA
621.552	KELSEY DOGWOOD 3-4 FEET	4 EA

PLANTING SCHEDULE - NORTHBOUND PLAZA

ITEM NO.	DESCRIPTION	QUANTITY
621.389	SARGENT JUNIPER 15-18 INCHES	2 EA
621.401	TAUNTON YEW 2 - 2.5 FEET	2 EA
621.513	RHODODENDRON	3 EA

Scale: 10 0 10 20  
Scale of Feet

No.	Revision	By	Date

Designed by:

**Stantec**

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	TJW	10\22	In Charge of	LEM	10\22

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**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)

LANDSCAPING PLAN

SHEET NUMBER: SP-11  
CONTRACT:2022.07  
290 OF 735

Date:10/7/2022  
Filename: ...00.HIGHWAY.MSTA...landscape.dgn

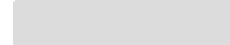
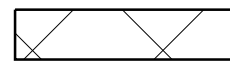

Date: 10/17/2022

Filename: ...MSTA\_Geotech\_Preload\_01.dgn

PREFABRICATED VERTICAL DRAIN LIMITS		
EXIT 35 SB ON RAMP		
OFFSET LT	STATION	OFFSET RT
20.5' LT.	213+75	64.2' RT.
23.5' LT.	214+00	65.0' RT.
37.5' LT.	214+50	77.6' RT.
42.1' LT.	214+87	83.4' RT.
93.2' LT.	215+00	85.4' RT.
108.2' LT.	215+20	84.9' RT.
108.2' LT.	215+50	84.1' RT.
108.2' LT.	215+73	80.9' RT.
84.5' LT.	216+00	77.3' RT.
40.5' LT.	216+50	78.8' RT.
33.9' LT.	217+00	84.0' RT.
26.6' LT.	217+50	83.9' RT.
25.4' LT.	218+00	83.0' RT.
24.9' LT.	218+50	76.1' RT.
28.5' LT.	219+00	76.6' RT.
28.5' LT.	219+50	76.6' RT.

SETTLEMENT PLATFORMS		
EXIT 35 SB ON RAMP		
DESIGNATION	STATION	OFFSET
SPW-1	214+00	25.5' RT.
SPW-2	215+46	51.5' LT.
SPW-3	215+50	25.5' RT.
SPW-4	217+00	25.5' RT.
SPW-5	218+50	25.5' RT.

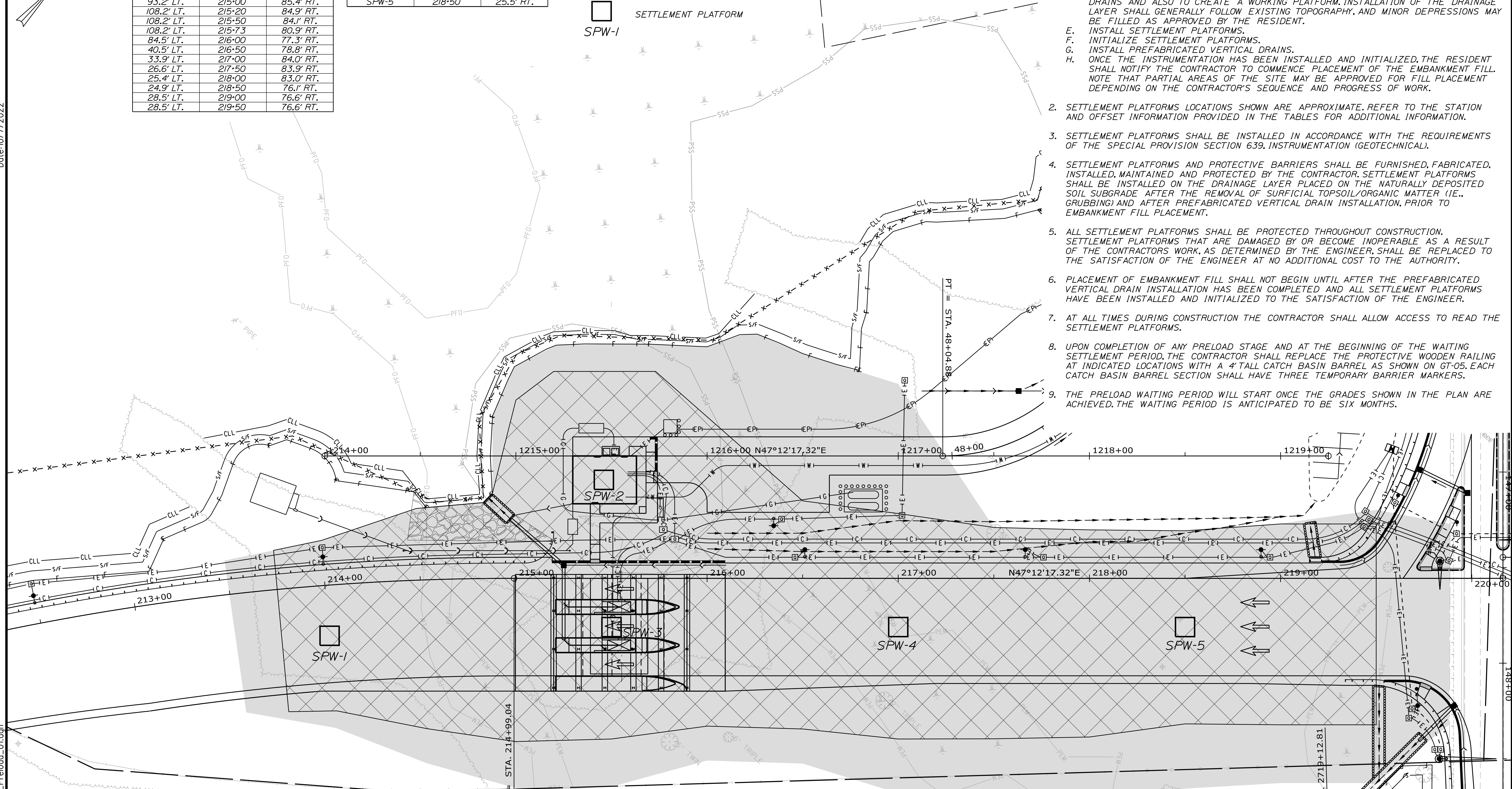
**LEGEND:**


-  EMBANKMENT (MINIMUM LIMITS)
-  PREFABRICATED VERTICAL DRAINS (5' WICK DRAIN SPACING)
-  SETTLEMENT PLATFORM

SPW-1

**NOTES:**


1. GROUND IMPROVEMENTS IDENTIFIED ON THE PLANS SHALL BE PERFORMED IN THE FOLLOWING SEQUENCE UNLESS OTHERWISE APPROVED BY THE RESIDENT.
  - A. CLEAR AND GRUB THE SITE.
  - B. PERFORM MUCK EXCAVATION AS REQUIRED.
  - C. BACKFILL GRUBBING AND MUCK EXCAVATION WITH AGGREGATE BASE COURSE - TYPE A.
  - D. PLACE AND COMPACT 2-FOOT THICK DRAINAGE LAYER (AGGREGATE BASE COURSE - TYPE A) TO FACILITATE HORIZONTAL DRAINAGE FROM THE PREFABRICATED VERTICAL DRAINS AND ALSO TO CREATE A WORKING PLATFORM. INSTALLATION OF THE DRAINAGE LAYER SHALL GENERALLY FOLLOW EXISTING TOPOGRAPHY, AND MINOR DEPRESSIONS MAY BE FILLED AS APPROVED BY THE RESIDENT.
  - E. INSTALL SETTLEMENT PLATFORMS.
  - F. INITIALIZE SETTLEMENT PLATFORMS.
  - G. INSTALL PREFABRICATED VERTICAL DRAINS.
  - H. ONCE THE INSTRUMENTATION HAS BEEN INSTALLED AND INITIALIZED, THE RESIDENT SHALL NOTIFY THE CONTRACTOR TO COMMENCE PLACEMENT OF THE EMBANKMENT FILL. NOTE THAT PARTIAL AREAS OF THE SITE MAY BE APPROVED FOR FILL PLACEMENT DEPENDING ON THE CONTRACTOR'S SEQUENCE AND PROGRESS OF WORK.
2. SETTLEMENT PLATFORMS LOCATIONS SHOWN ARE APPROXIMATE. REFER TO THE STATION AND OFFSET INFORMATION PROVIDED IN THE TABLES FOR ADDITIONAL INFORMATION.
3. SETTLEMENT PLATFORMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISION SECTION 639, INSTRUMENTATION (GEOTECHNICAL).
4. SETTLEMENT PLATFORMS AND PROTECTIVE BARRIERS SHALL BE FURNISHED, FABRICATED, INSTALLED, MAINTAINED AND PROTECTED BY THE CONTRACTOR. SETTLEMENT PLATFORMS SHALL BE INSTALLED ON THE DRAINAGE LAYER PLACED ON THE NATURALLY DEPOSITED SOIL SUBGRADE AFTER THE REMOVAL OF SURFICIAL TOPSOIL/ORGANIC MATTER (IE., GRUBBING) AND AFTER PREFABRICATED VERTICAL DRAIN INSTALLATION, PRIOR TO EMBANKMENT FILL PLACEMENT.
5. ALL SETTLEMENT PLATFORMS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. SETTLEMENT PLATFORMS THAT ARE DAMAGED BY OR BECOME INOPERABLE AS A RESULT OF THE CONTRACTORS WORK, AS DETERMINED BY THE ENGINEER, SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE AUTHORITY.
6. PLACEMENT OF EMBANKMENT FILL SHALL NOT BEGIN UNTIL AFTER THE PREFABRICATED VERTICAL DRAIN INSTALLATION HAS BEEN COMPLETED AND ALL SETTLEMENT PLATFORMS HAVE BEEN INSTALLED AND INITIALIZED TO THE SATISFACTION OF THE ENGINEER.
7. AT ALL TIMES DURING CONSTRUCTION THE CONTRACTOR SHALL ALLOW ACCESS TO READ THE SETTLEMENT PLATFORMS.
8. UPON COMPLETION OF ANY PRELOAD STAGE AND AT THE BEGINNING OF THE WAITING SETTLEMENT PERIOD, THE CONTRACTOR SHALL REPLACE THE PROTECTIVE WOODEN RAILING AT INDICATED LOCATIONS WITH A 4' TALL CATCH BASIN BARREL AS SHOWN ON GT-05. EACH CATCH BASIN BARREL SECTION SHALL HAVE THREE TEMPORARY BARRIER MARKERS.
9. THE PRELOAD WAITING PERIOD WILL START ONCE THE GRADES SHOWN IN THE PLAN ARE ACHIEVED. THE WAITING PERIOD IS ANTICIPATED TO BE SIX MONTHS.



Scale: 

No.	Revision	By	Date

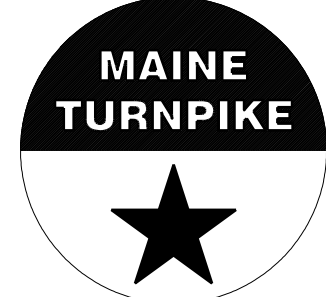
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	JRH	10\22	Checked	TAD	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)

GEOTECHNICAL PLAN

SHEET NUMBER: GT-01  
 291 OF 735

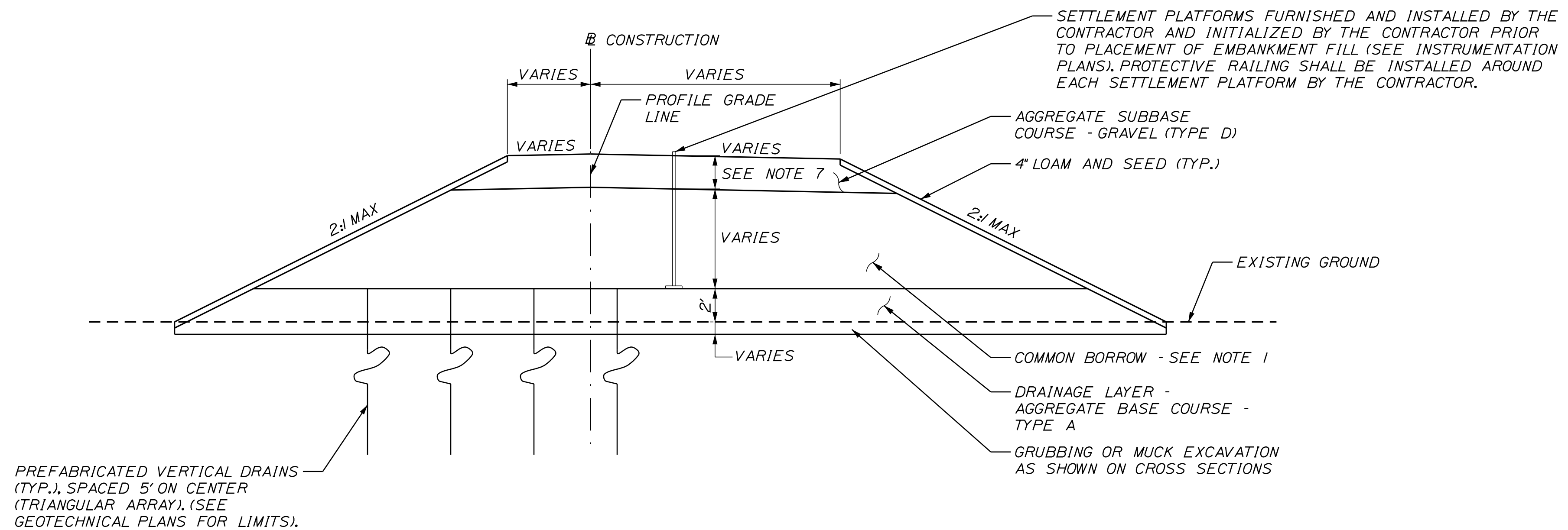
CONTRACT: 2022.07

Date: 10/17/2022

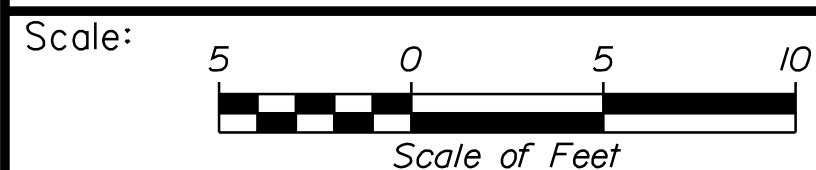
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**NOTES:**

1. PREFABRICATED VERTICAL DRAINS SHALL BE INSTALLED IN ACCORDANCE WITH SPECIAL PROVISION SECTION 209 - WICK DRAINS (PREFABRICATED VERTICAL DRAINS).
2. INSTRUMENTATION SHALL BE INSTALLED IN ACCORDANCE WITH SPECIAL PROVISION SECTION 639 - INSTRUMENTATION (GEOTECHNICAL).
3. EMBANKMENT FILL SHALL NOT BE PLACED TO HIGHER ELEVATIONS THAN INDICATED IN THE PLANS.
4. ALL EMBANKMENTS SHALL BE RAISED IN UNIFORM LIFTS NOT EXCEEDING TWO FEET IN HEIGHT TO PREVENT UNBALANCED FILL CONDITIONS THAT COULD LEAD TO SOIL FAILURE. NOTE THAT ACTUAL LIFTS MAY BE LESS FOR COMPACTION PURPOSES TO ACHIEVE REQUIRED DENSITIES.
5. EMBANKMENT SETTLEMENT IS ANTICIPATED TO OCCUR OVER THE LENGTH OF THE PROJECT AND THROUGHOUT THE DURATION OF CONSTRUCTION. SETTLEMENT OF EMBANKMENT FILL MAY ALSO OCCUR DURING FILL PLACEMENT. ADDITIONAL FILL NECESSARY TO CONSTRUCT THE EMBANKMENT TO THE ELEVATIONS SHOWN ON THE PLANS IS ANTICIPATED TO BE UNDER 50 CY AND SHALL BE INCIDENTAL TO THE BORROW ITEMS.
6. ALL MATERIAL PLACED ABOVE FINAL SUBGRADE SHALL BE AGGREGATE SUBBASE COURSE - GRAVEL (TYPE D).
7. AGGREGATE SUBBASE COURSE - GRAVEL (TYPE D) LAYER SHALL BE 2' FROM STA. 214+00 TO STA. 216+50 AND 1.67' FROM STA. 217+00 TO STA. 219+50.



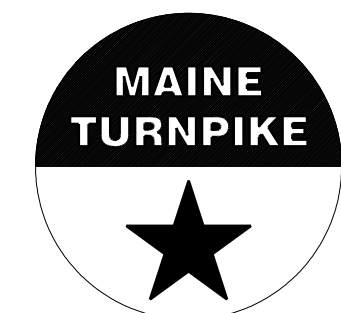
RAMP TYPICAL - ONE STAGE EMBANKMENT



Designed by:



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EMBANKMENT PRELOAD TYPICAL SECTION

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	TAD	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

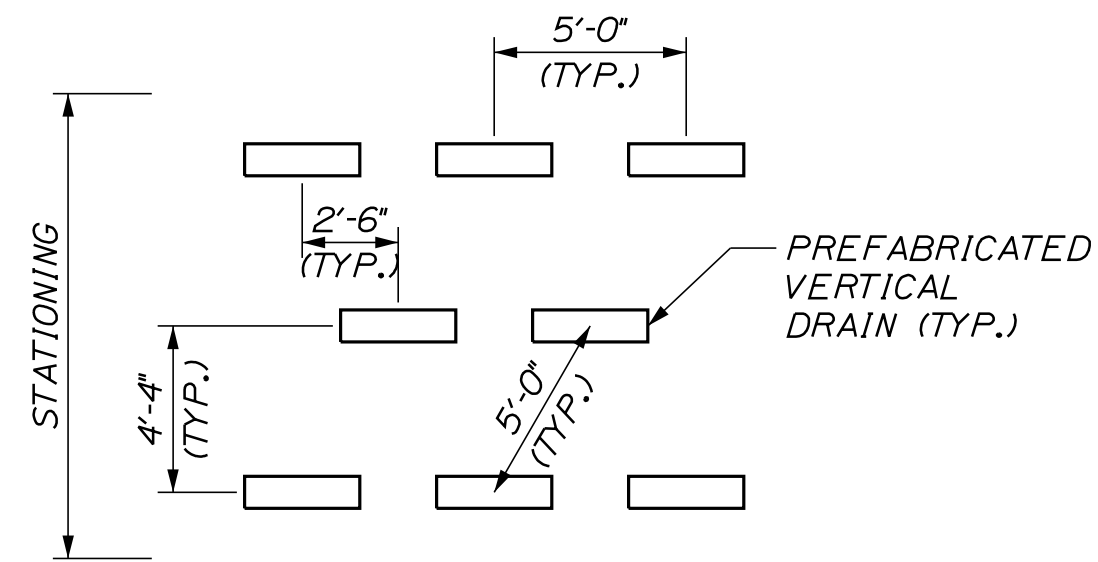
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

SHEET NUMBER: GT-02

292 OF 735

Date: 10/17/2022



**NOTES:**

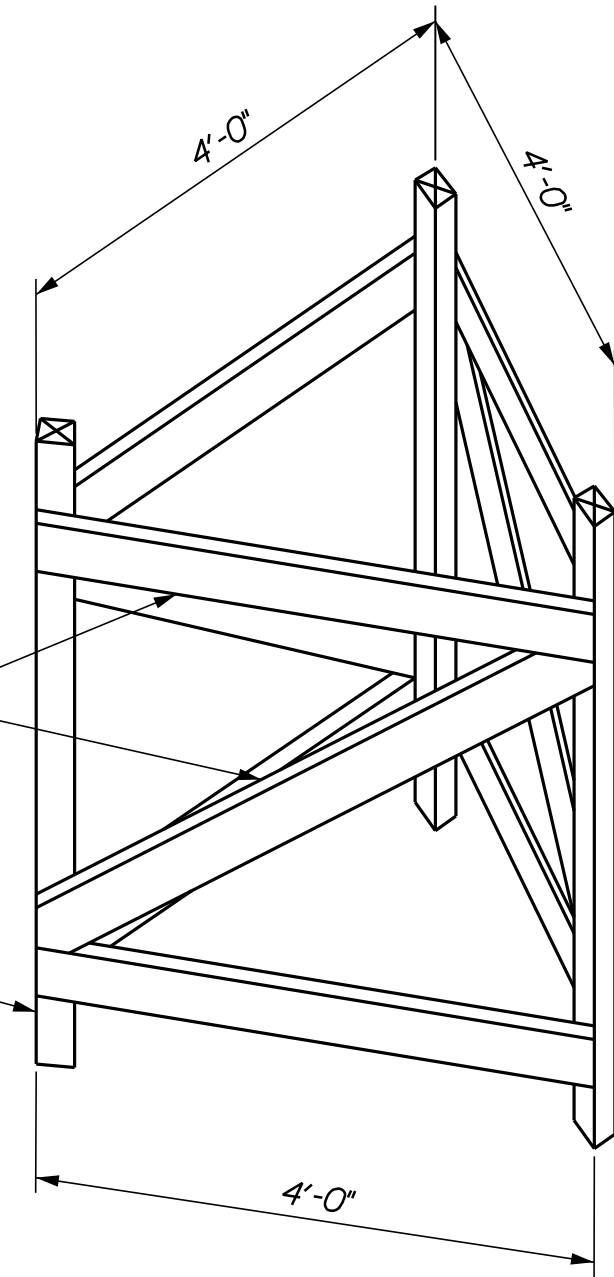
1. PREFABRICATED VERTICAL DRAINS SHALL BE INSTALLED IN A TRIANGULAR ARRAY AT 5 FEET ON CENTER. THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE PREFABRICATED VERTICAL DRAINS ARE SHOWN IN THE PLANS.
2. PREFABRICATED VERTICAL DRAINS SHALL BE INSTALLED THROUGH THE AGGREGATE BASE COURSE - TYPE A AND EXISTING FILL, WHERE PRESENT, DRAINS SHALL BE EXTENDED THROUGH THE UNDERLYING COMPRESSIBLE LAYERS TO A MINIMUM DEPTH OF 3 FEET BELOW THE BOTTOM OF THE MARINE CLAY STRATUM, OR TO MANDREL REFUSAL BELOW THE MARINE CLAY, WHICHEVER IS SHALLOWER.

PREFABRICATED VERTICAL DRAIN (PVD) LAYOUT DETAIL

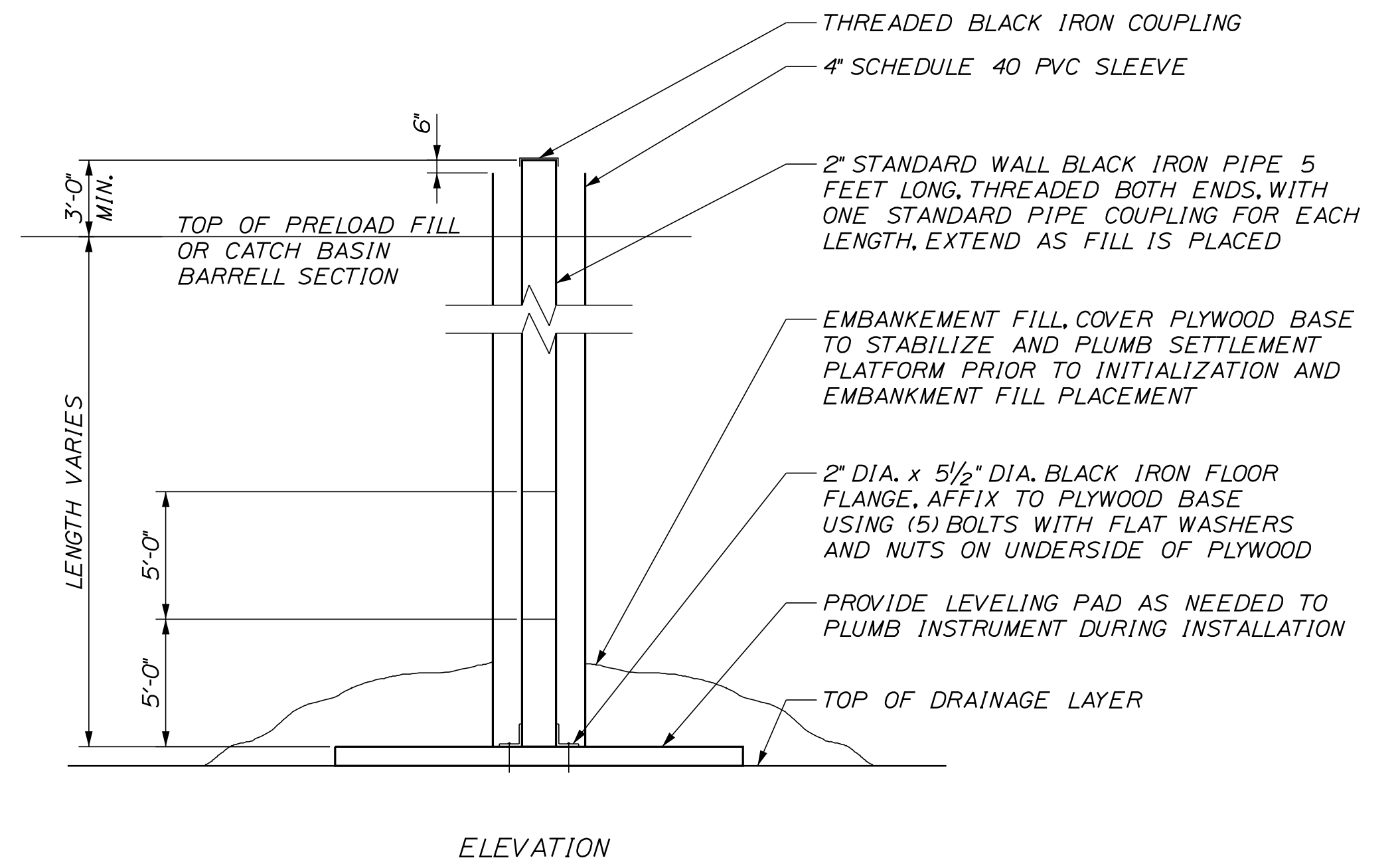
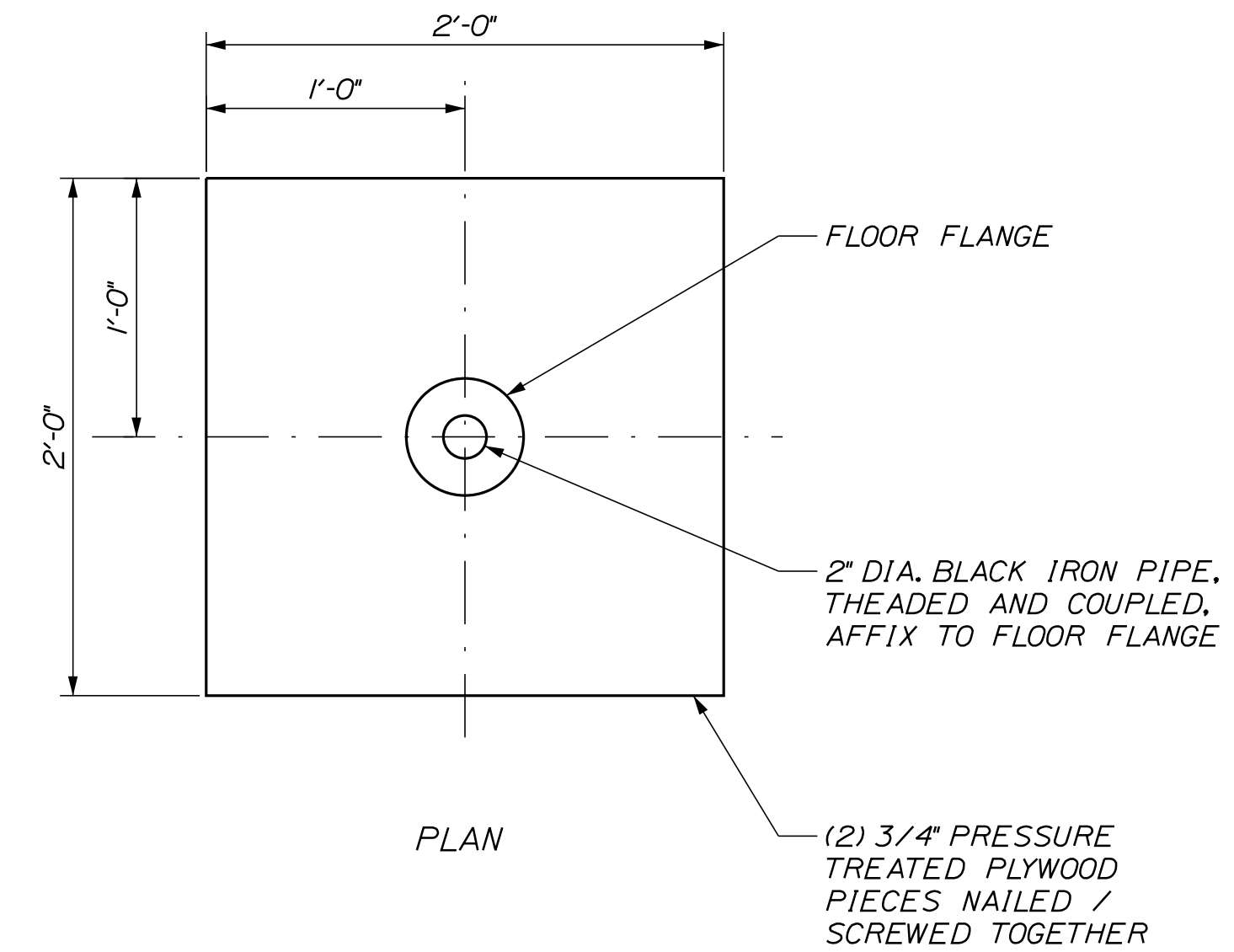
NOTE:  
ALL EXTERNAL SURFACES  
TO BE PAINTED  
FLUORESCENT ORANGE.

HORIZONTAL  
MEMBERS AND  
DIAGONAL BRACES  
1"x4" SOUND LUMBER

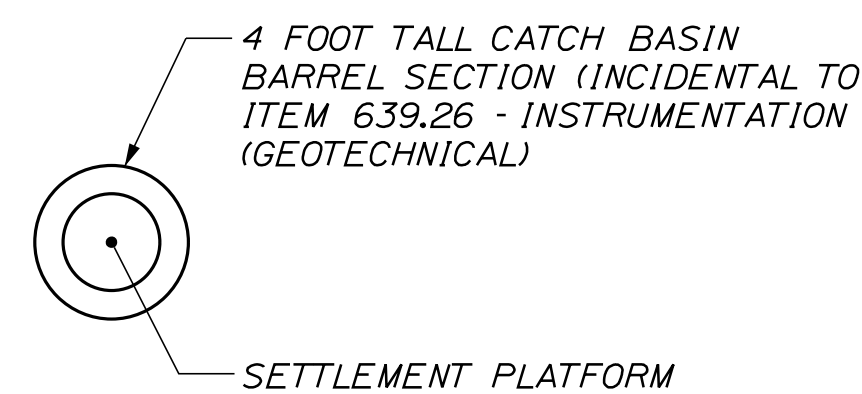
CORNER POSTS  
2"x3"x4'-6"  
SOUND LUMBER



PROTECTIVE RAILING DETAIL FOR  
SETTLEMENT PLATFORMS

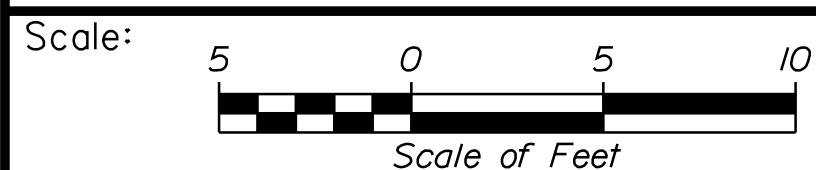


SETTLEMENT PLATFORM DETAIL



LONG TERM PROTECTION FOR  
SETTLEMENT PLATFORM

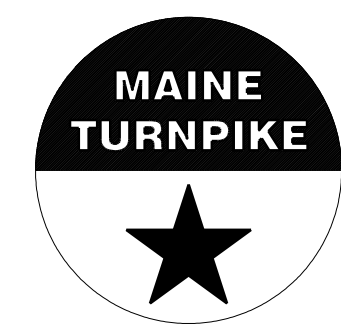
Filename: ...MSTA\_Geotech\_details.dgn



Designed by:



STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376



**THE GOLD STAR  
MEMORIAL HIGHWAY**

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
EMBANKMENT PRELOAD  
INSTRUMENTATION DETAILS

No.	Revision	By	Date

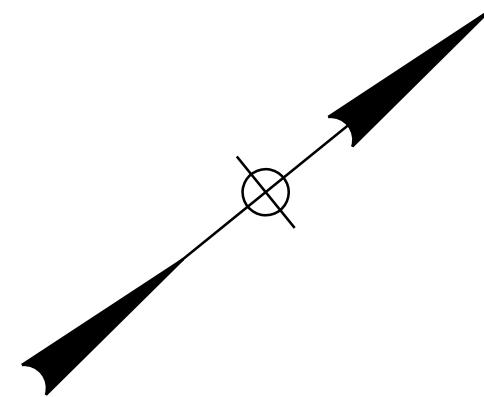
CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.					
	By	Date		By	Date
Designed	JRH	10\22	Checked	TAD	10\22
Drawn	CHL	10\22	In Charge of	LEM	10\22

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

CONTRACT: 2022.07

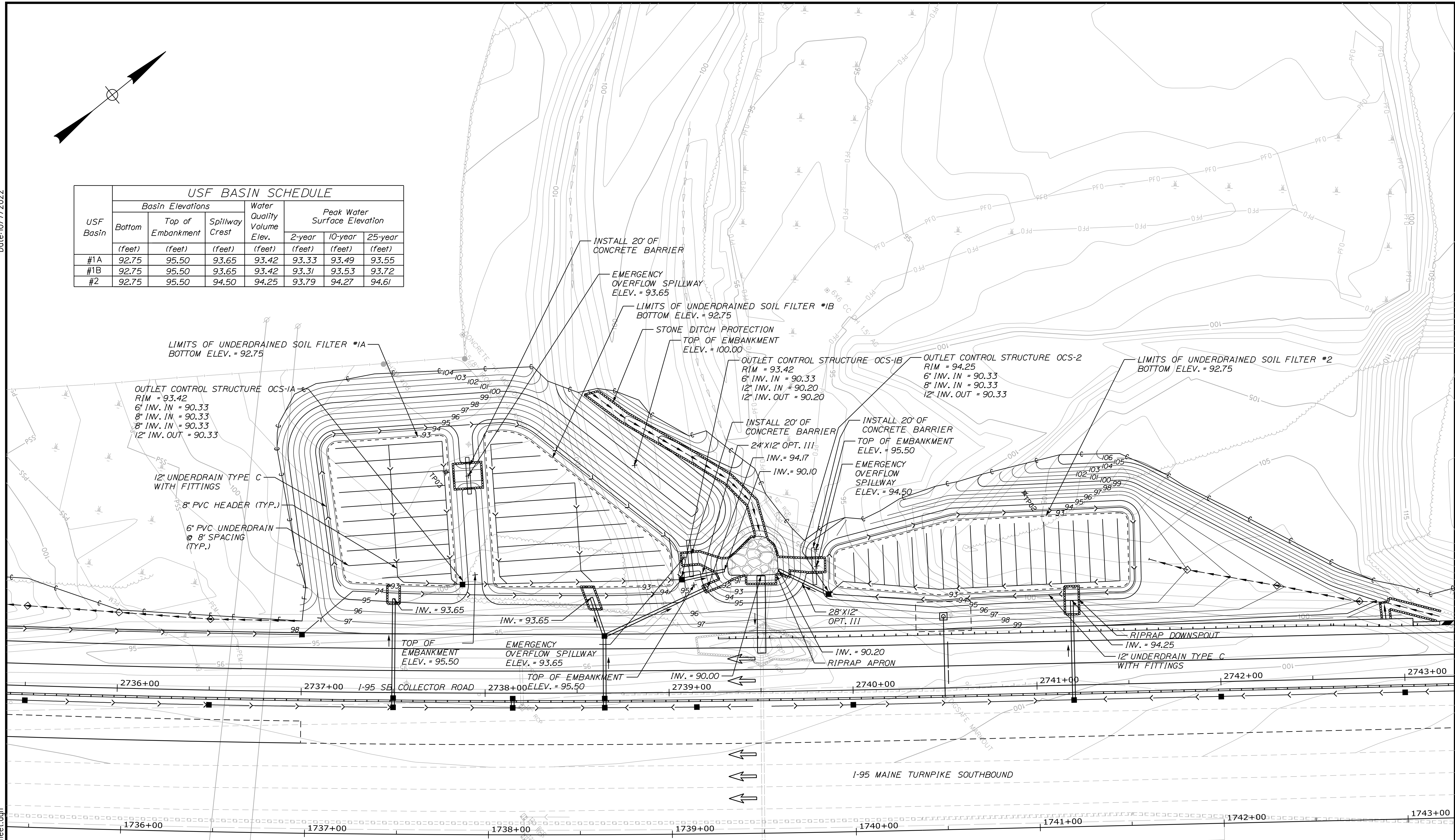
SHEET NUMBER: GT-03

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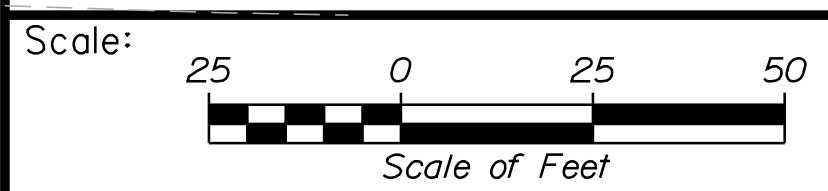


Date: 10/17/2022

USF Basin	Basin Elevations			Water Quality Volume Elev.	Peak Water Surface Elevation		
	Bottom	Top of Embankment	Spillway Crest		2-year	10-year	25-year
	(feet)	(feet)	(feet)		(feet)	(feet)	(feet)
#1A	92.75	95.50	93.65	93.42	93.33	93.49	93.55
#1B	92.75	95.50	93.65	93.42	93.31	93.53	93.72
#2	92.75	95.50	94.50	94.25	93.79	94.27	94.61



Filename: ... \USF #1&2\_detail\_sheet.dgn



No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

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 FAX (207) 883-3376



**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

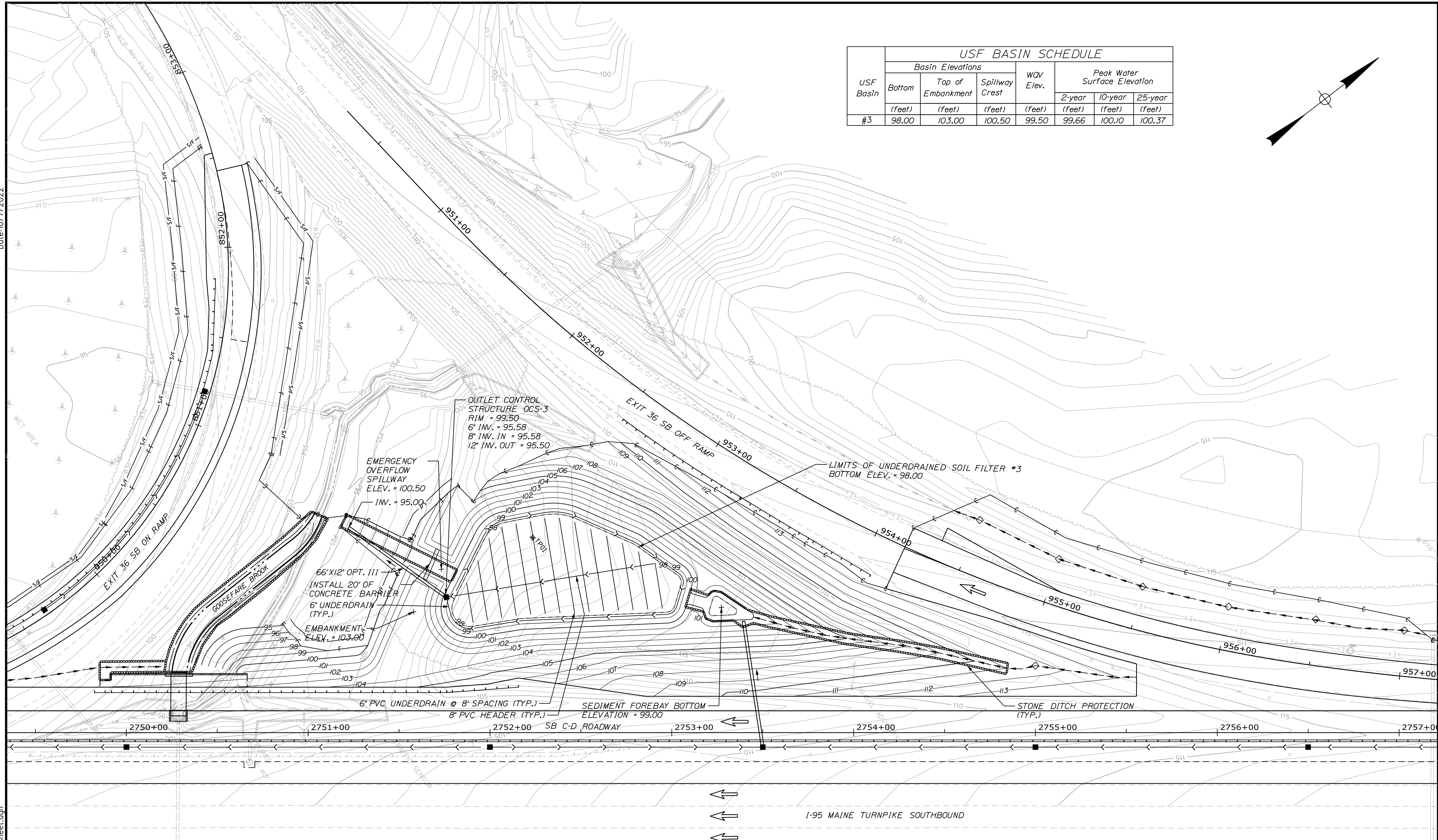
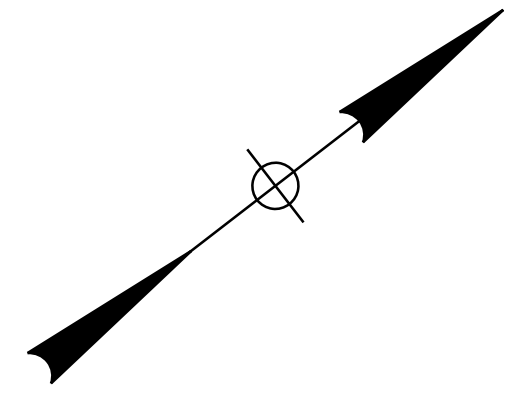
**INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 UNDERDRAINED SOIL FILTER #1A, #1B & #2  
 GRADING AND DETAILS**

SHEET NUMBER: USF-01  
 CONTRACT: 2022.07  
 294 OF 735

Date: 10/17/2022

Filename: ... \USF # 3 detail sheet.dgn

USF Basin	USF BASIN SCHEDULE						
	Basin Elevations			WQV Elev.	Peak Water Surface Elevation		
	Bottom (feet)	Top of Embankment (feet)	Spillway Crest (feet)		2-year (feet)	10-year (feet)	25-year (feet)
#3	98.00	103.00	100.50	99.50	99.66	100.10	100.37



Scale: 1" = 25'

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
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**THE GOLD STAR MEMORIAL HIGHWAY**

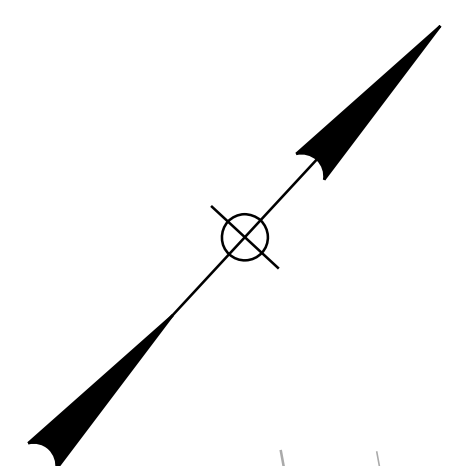
MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 UNDERDRAINED SOIL FILTER #3  
 GRADING AND DETAILS

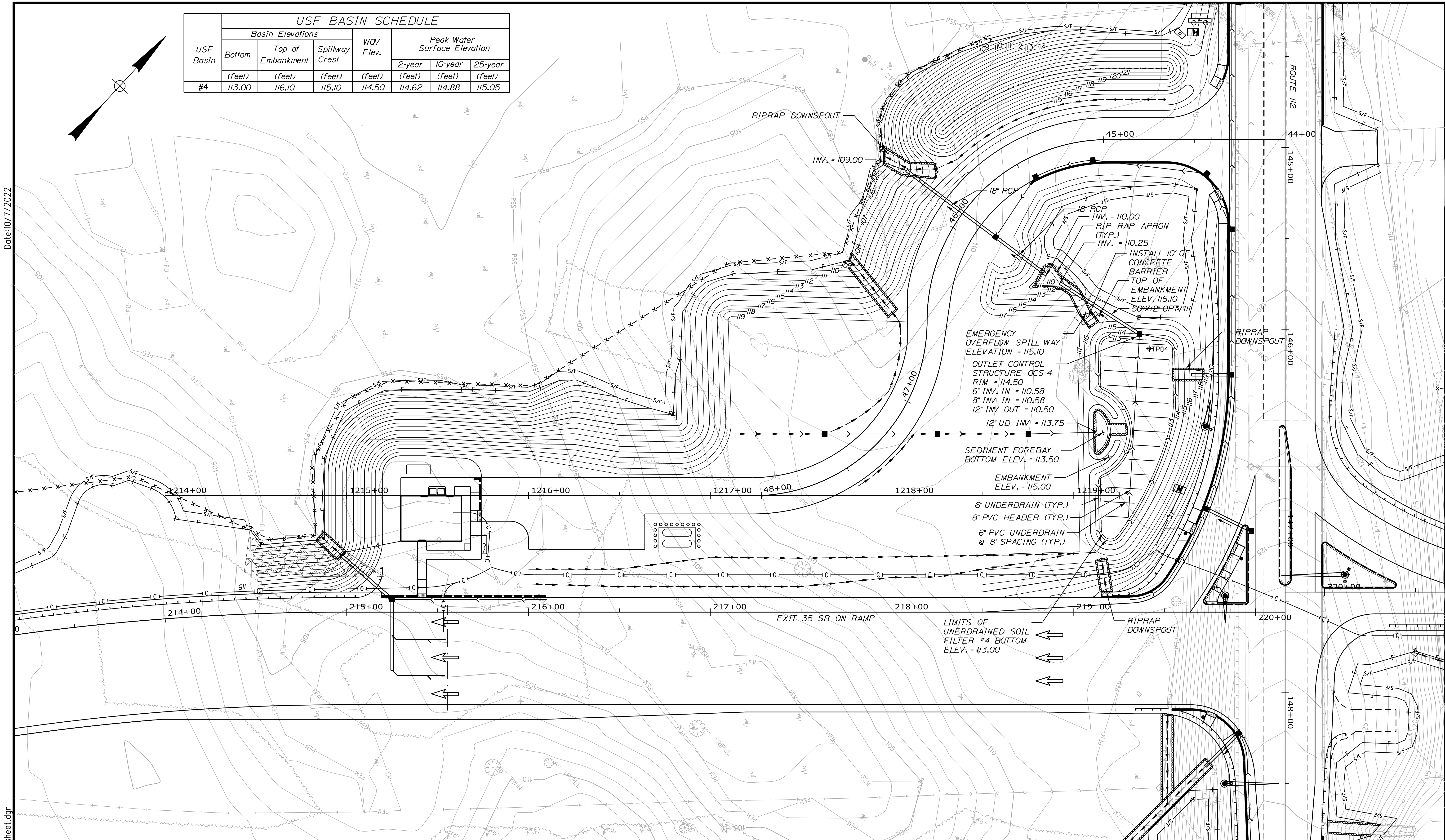
SHEET NUMBER: USF-02  
 295 OF 735

CONTRACT: 2022.07

USF Basin	USF BASIN SCHEDULE						
	Basin Elevations			WQV Elev. (feet)	Peak Water Surface Elevation		
	Bottom (feet)	Top of Embankment (feet)	Spillway Crest (feet)		2-year (feet)	10-year (feet)	25-year (feet)
#4	113.00	116.10	115.10	114.50	114.62	114.88	115.05



Date: 10/17/2022



Scale: 25 0 25 50  
Scale of Feet

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
UNDERDRAINED SOIL FILTER #4  
GRADING AND DETAILS

SHEET NUMBER: USF-03  
296 OF 735

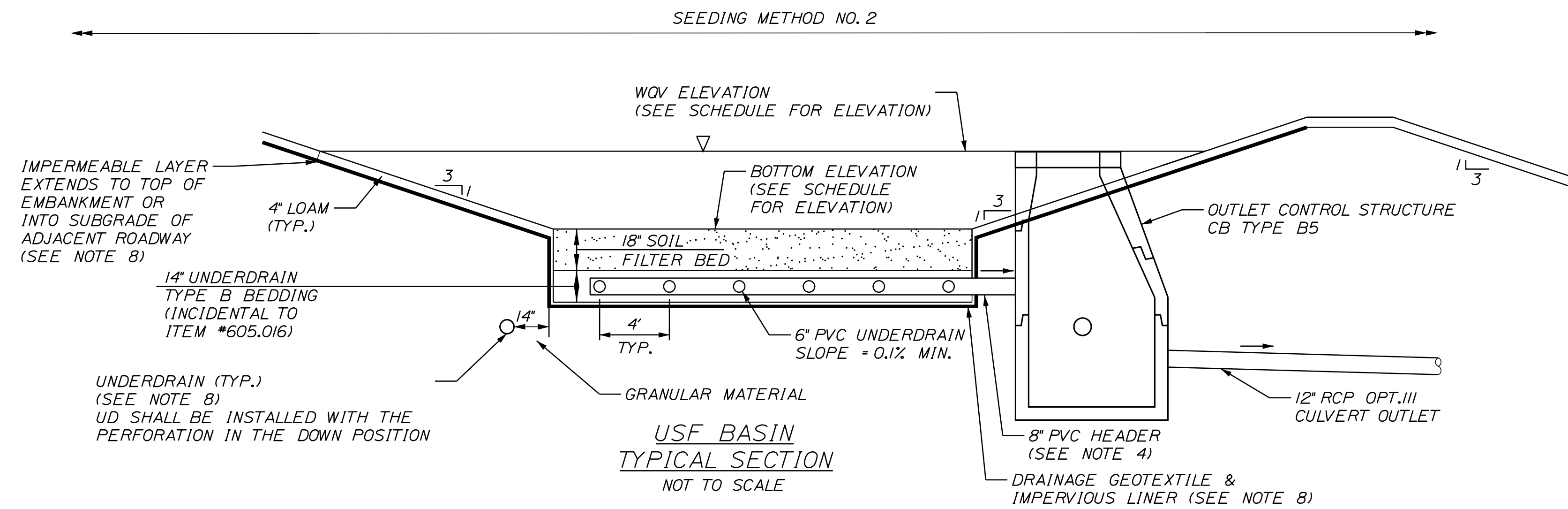
CONTRACT: 2022.07

Filename: ... \USF #4 - detail - sheet.dgn



Date: 10/17/2022

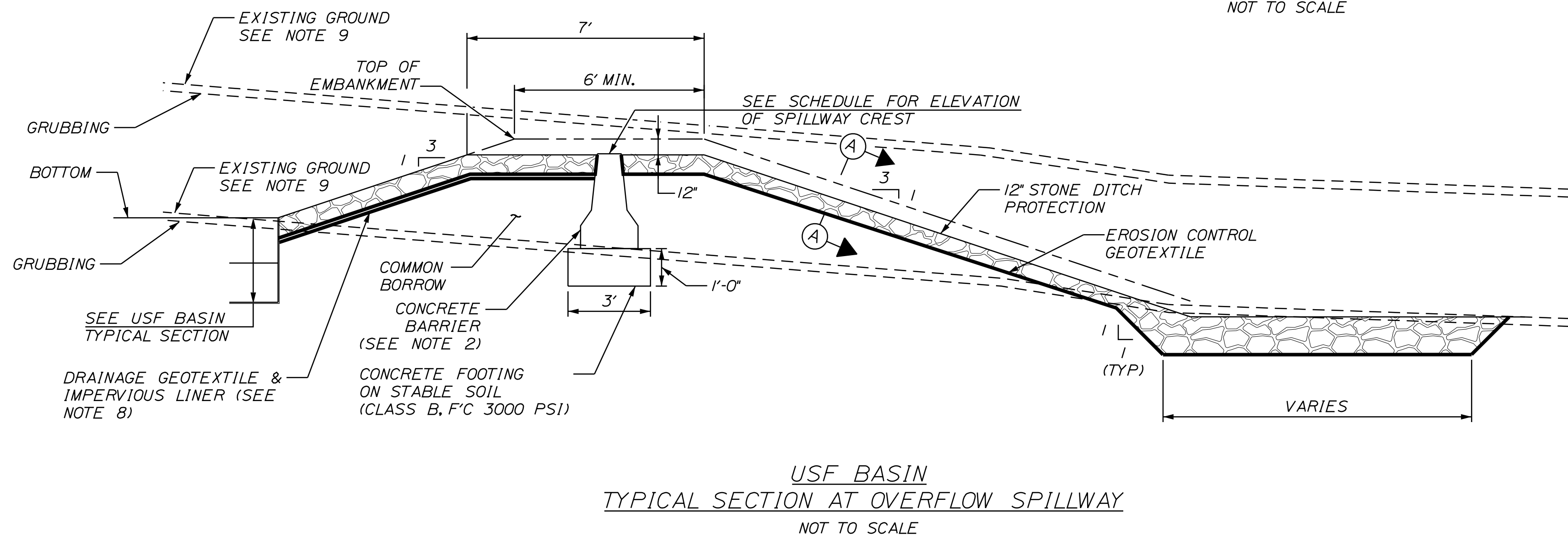
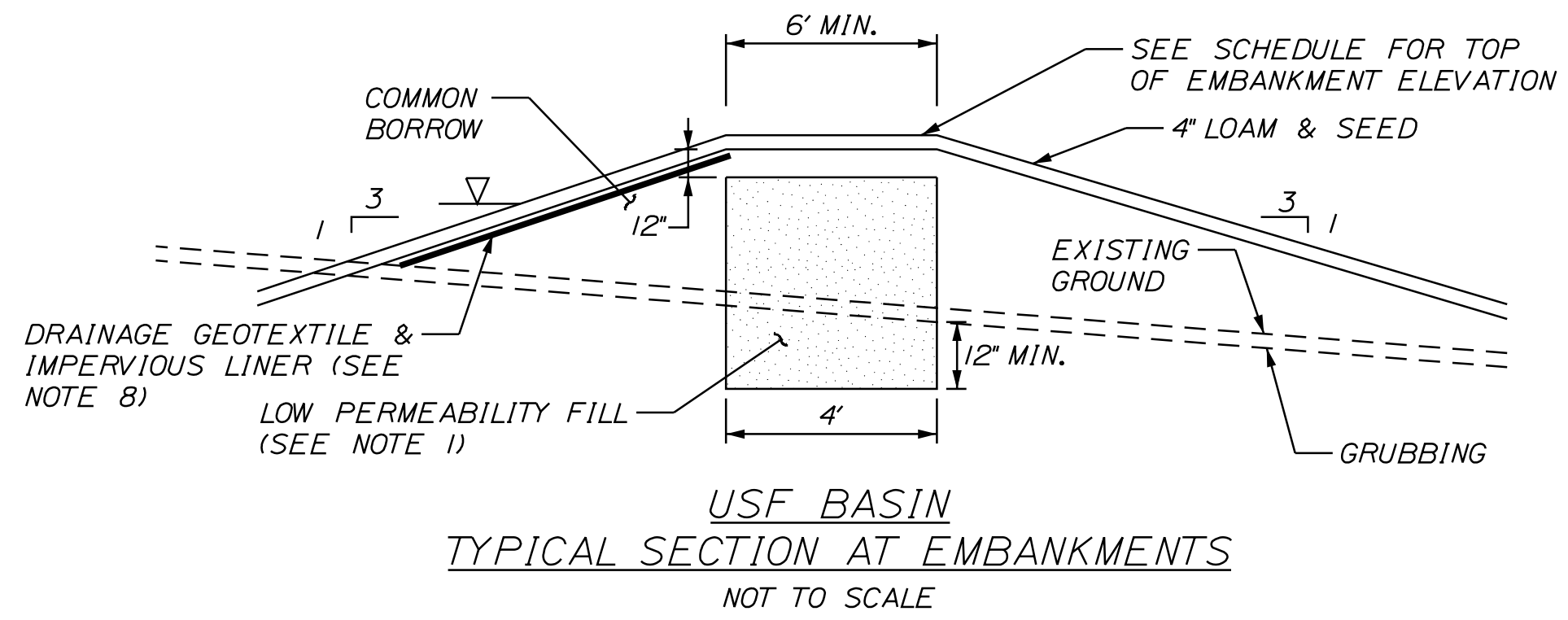
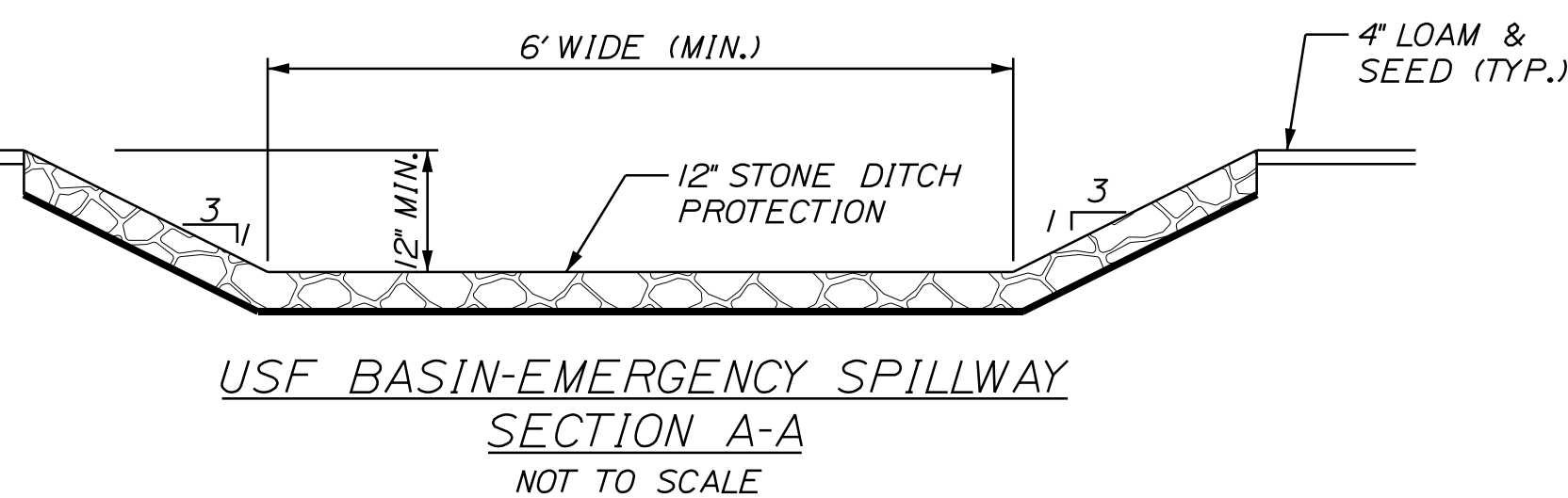
Filename: ...:\00\HIGHWAY\MSTA\...\_Details.dgn



**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. THE UNDERDRAIN SOIL FILTER SHALL BE CONSTRUCTED TO THE LIMITS AND DETAILS SHOWN ON THE PLANS AND SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE RESIDENT.
6. THE FILTER BED MATERIAL SHALL NOT BE PLACED IN USF BASINS UNTIL THE TRIBUTARY DRAINAGE AREA IS PERMANENTLY STABILIZED AGAINST EROSION.
7. EROSION CONTROL BLANKETS SHALL BE PROVIDED ON ALL USF BASIN EMBANKMENT SLOPES, BOTH INTERIOR AND EXTERIOR AND THE SURFACE OF THE SOIL FILTER.
8. AN IMPERVIOUS LAYER SHALL BE CONSTRUCTED BY INSTALLING AN IMPERVIOUS LINER BETWEEN TWO LAYERS OF DRAINAGE GEOTEXTILE PER SPECIAL PROVISION 620. UNDERDRAIN SHALL BE INSTALLED AROUND THE PERIMETER OF THE IMPERVIOUS LAYER. THE UNDERDRAIN SHALL OUTLET TO A STABILIZED RIPRAP APRON OR CATCH BASIN.
9. EXISTING GROUND ELEVATION DEPENDANT ON SPECIFIC USF BASIN LOCATION. BOTH CUT AND FILL OPTIONS SHOWN FOR REFERENCE. SEE BMP PLANS FOR FURTHER INFORMATION.
10. OUTLET STRUCTURES FOR UNDERDRAINED SOIL SHALL UTILIZE A BEEHIVE GRATE. FRAME SHALL BE BOLTED TO TOP OF CATCH BASIN USING 1/2" DIAMETER STAINLESS STEEL EXPANSION ANCHOR BOLTS EMBEDDED 3" ON QUARTER POINTS OF THE FRAME FLANGE. ANCHOR BOLTS SHALL BE INCIDENTAL TO THE CATCH BASIN.

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)	
#1A	92.75	95.50	93.65	93.42	93.33	93.49	93.55
#1B	92.75	95.50	93.65	93.42	93.31	93.53	93.72
#2	92.75	95.50	94.25	94.25	93.79	94.27	94.61
#3	98.00	103.00	100.50	99.50	99.66	100.10	100.37
#4	113.00	116.10	115.10	114.50	114.62	114.88	115.05



Scale: AS NOTED

No.	Revision	By	Date

Designed by:

STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	THG	10\22	In Charge of	LEM	10\22

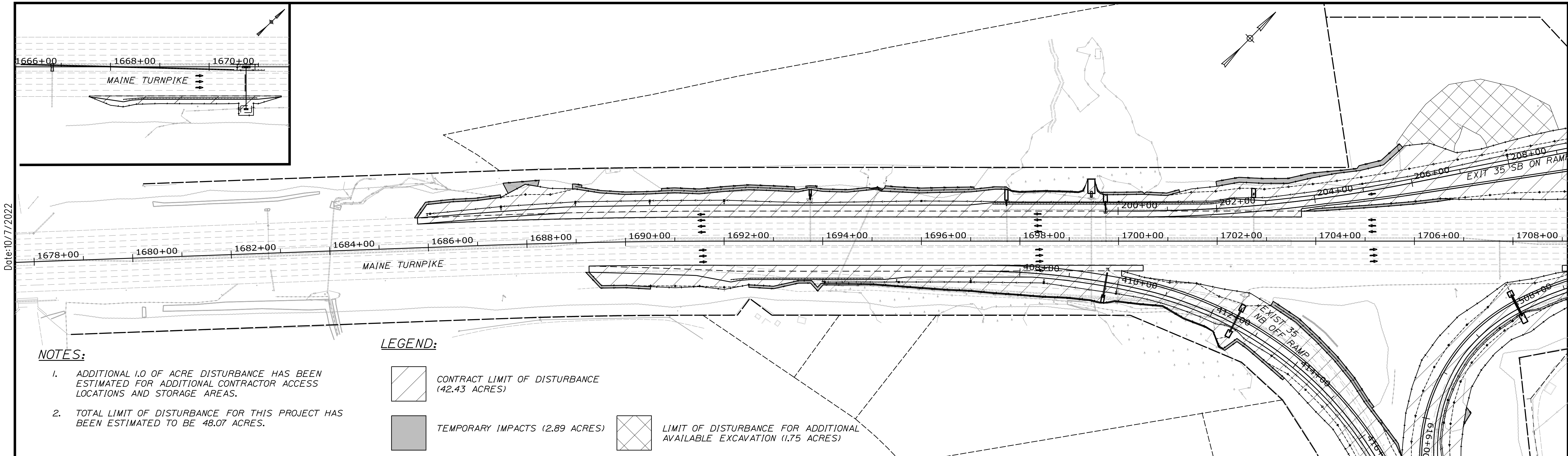
MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
UNDERDRAINED SOIL FILTER  
DETAILS

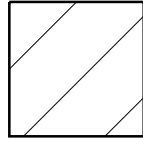

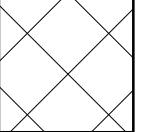
SHEET NUMBER: USF-04  
CONTRACT: 2022.07  
297 OF 735

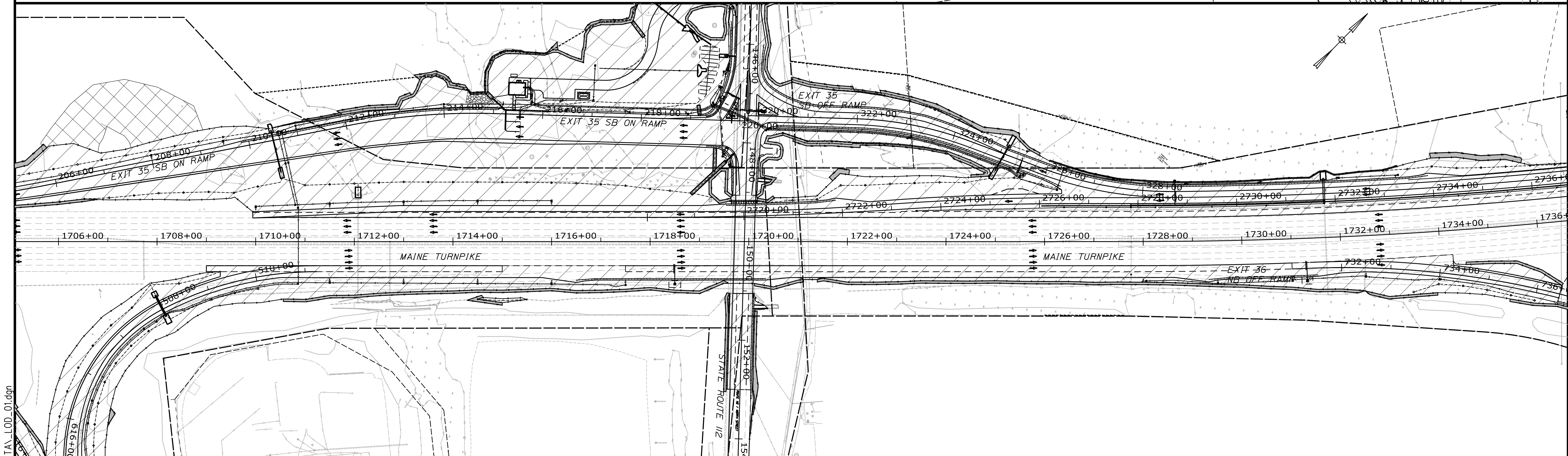


**NOTES:**

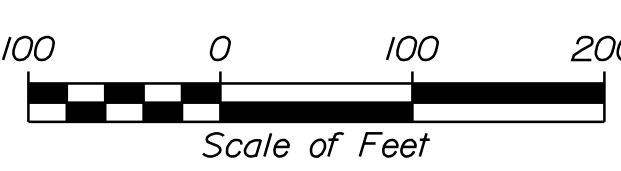
1. ADDITIONAL 1.0 OF ACRE DISTURBANCE HAS BEEN ESTIMATED FOR ADDITIONAL CONTRACTOR ACCESS LOCATIONS AND STORAGE AREAS.
2. TOTAL LIMIT OF DISTURBANCE FOR THIS PROJECT HAS BEEN ESTIMATED TO BE 48.07 ACRES.

**LEGEND:**

-  CONTRACT LIMIT OF DISTURBANCE (42.43 ACRES)
-  TEMPORARY IMPACTS (2.89 ACRES)
-  LIMIT OF DISTURBANCE FOR ADDITIONAL AVAILABLE EXCAVATION (1.75 ACRES)




Filename: ...\\00.HIGHWAY\MSTA\...LOD\_01.dgn

Scale: 

No.	Revision	By	Date

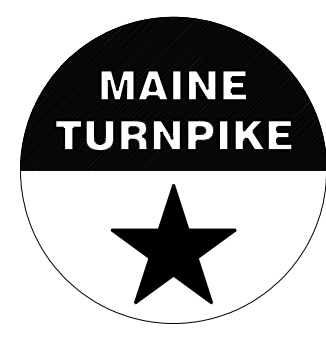
Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	KBK	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376



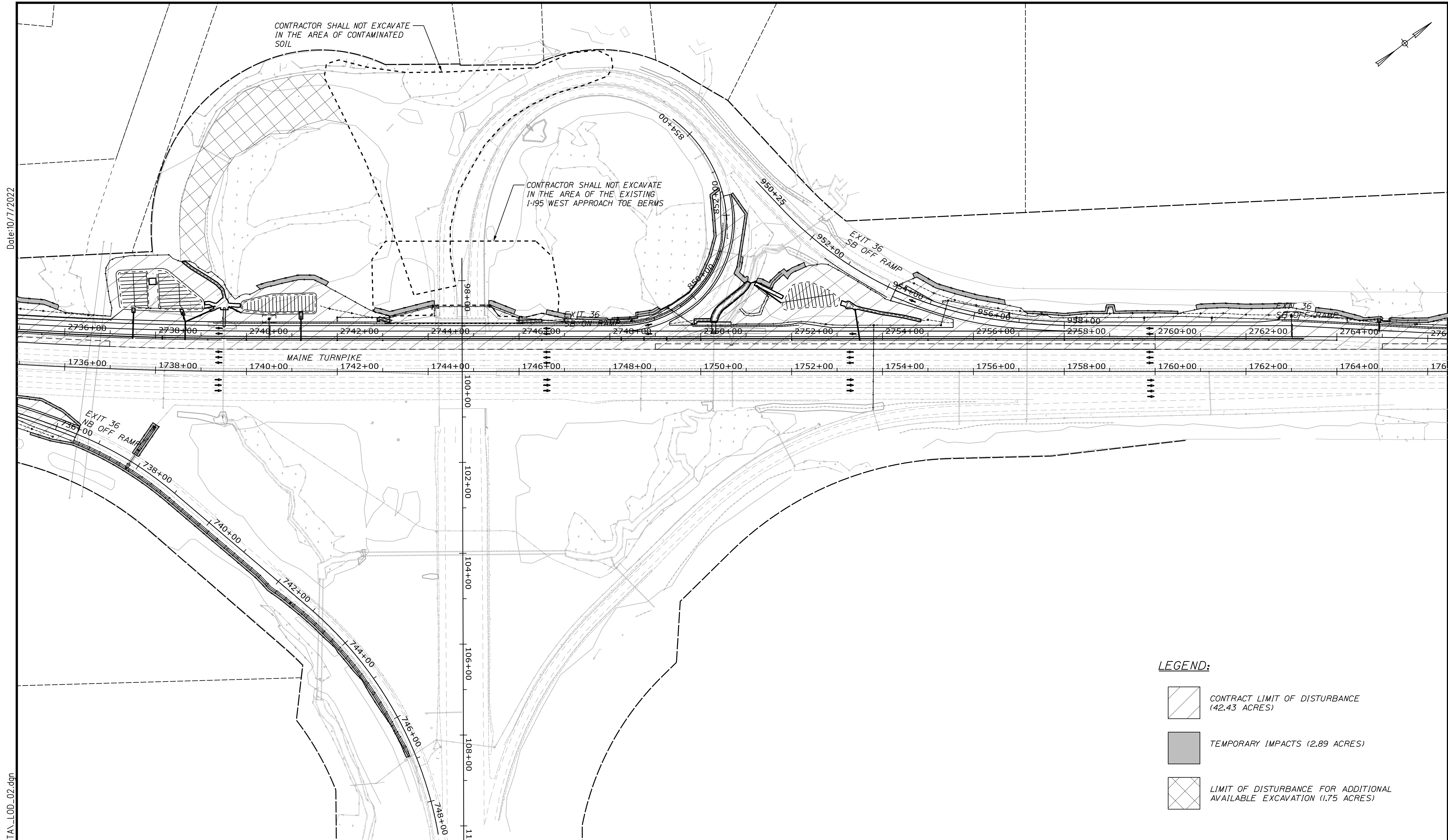
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 LIMIT OF DISTURBANCE PLAN 1

SHEET NUMBER: LOD-01  
 298 OF 735

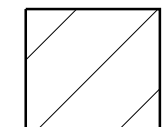

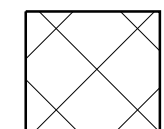
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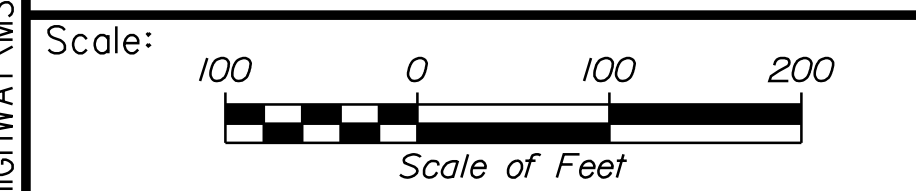


Date: 10/17/2022


Filename: ...:\00\HIGHWAY\MSTA\100\_02.dgn

**LEGEND:**

-  CONTRACT LIMIT OF DISTURBANCE (42.43 ACRES)
-  TEMPORARY IMPACTS (2.89 ACRES)
-  LIMIT OF DISTURBANCE FOR ADDITIONAL AVAILABLE EXCAVATION (1.75 ACRES)



Designed by:

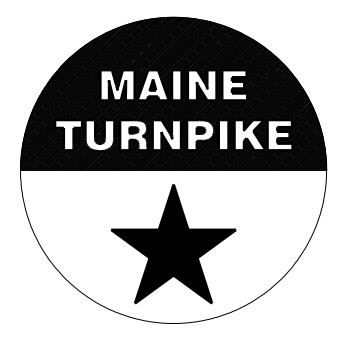


CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

No.	Revision	By	Date

	By	Date		By	Date
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376



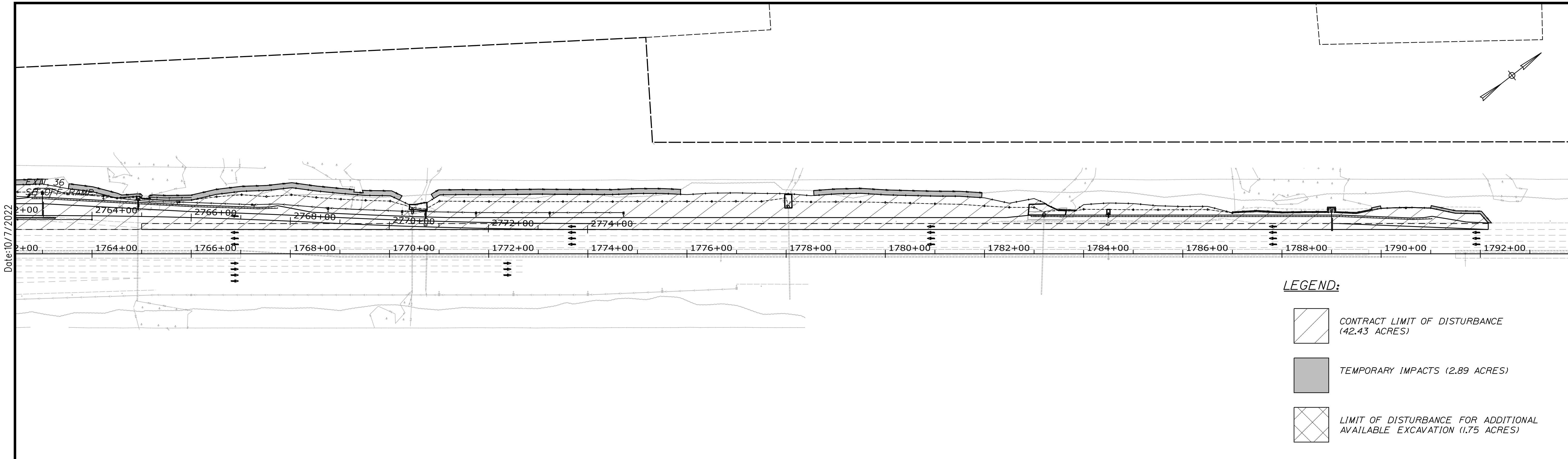
**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

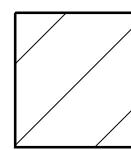

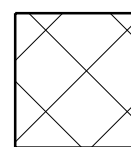
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 LIMIT OF DISTURBANCE PLAN 2

SHEET NUMBER: LOD-01  
 299 OF 735

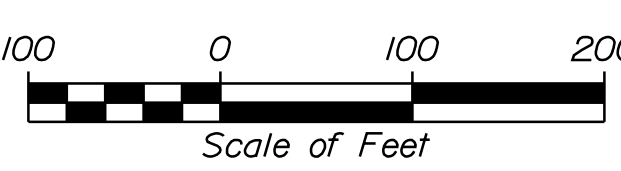
CONTRACT: 2022.07



Date: 10/17/2022

- LEGEND:**
-  CONTRACT LIMIT OF DISTURBANCE (42.43 ACRES)
  -  TEMPORARY IMPACTS (2.89 ACRES)
  -  LIMIT OF DISTURBANCE FOR ADDITIONAL AVAILABLE EXCAVATION (1.75 ACRES)


Filename: ...:\00\HIGHWAY\MSTA\...\_LOD\_03.dgn

Scale: 

Scale of Feet

No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date		By	Date
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

STANTEC CONSULTING SERVICES INC.  
 2211 CONGRESS STREET SUITE 380  
 PORTLAND, ME 04102  
 TEL (207) 887-3448  
 FAX (207) 883-3376



**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

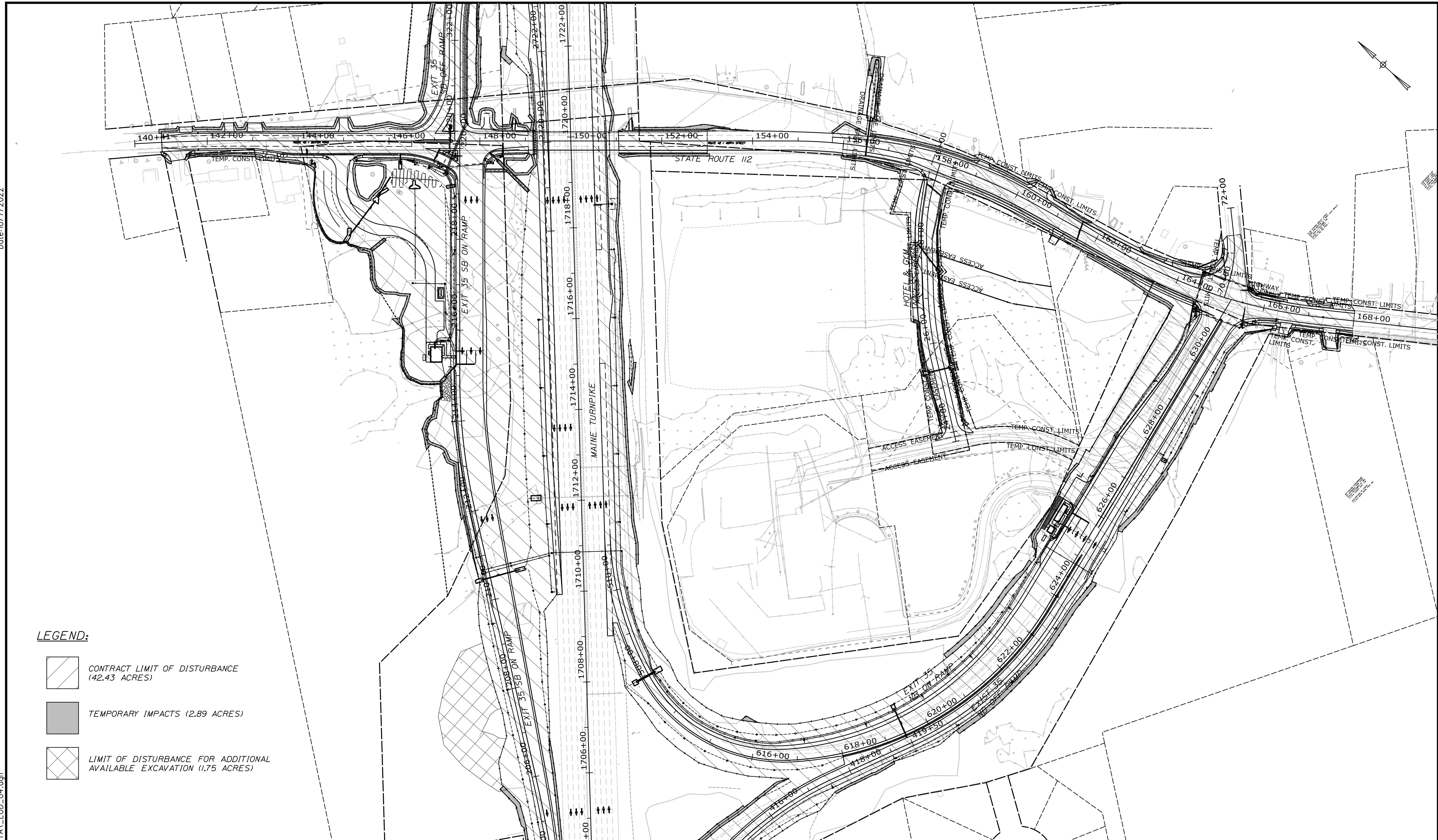
INTERCHANGE IMPROVEMENTS  
 SACO (EXITS 35 & 36)  
 LIMIT OF DISTURBANCE PLAN 3

SHEET NUMBER: LOD-01  
 300 OF 735

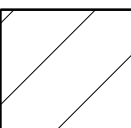

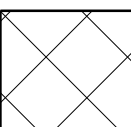
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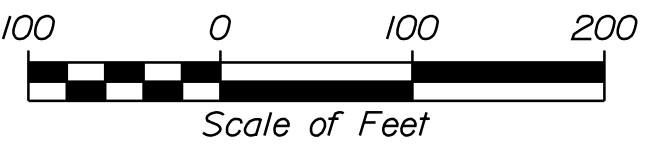
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Filename: ...:\00\HIGHWAY\MSTA\...\_LOD\_04.dgn




**LEGEND:**

-  CONTRACT LIMIT OF DISTURBANCE (42.43 ACRES)
-  TEMPORARY IMPACTS (2.89 ACRES)
-  LIMIT OF DISTURBANCE FOR ADDITIONAL AVAILABLE EXCAVATION (1.75 ACRES)

Scale: 

No.	Revision	By	Date

Designed by:



STANTEC CONSULTING SERVICES INC.  
2211 CONGRESS STREET SUITE 380  
PORTLAND, ME 04102  
TEL (207) 887-3448  
FAX (207) 883-3376

CONSULTANT PROJECT MANAGER: LAUREN MEEK, P.E.

	By	Date	By	Date	
Designed	PLP	10\22	Checked	JRH	10\22
Drawn	KBJ	10\22	In Charge of	LEM	10\22

MAINE TURNPIKE



THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: RYAN BARNES, PE, CPESC

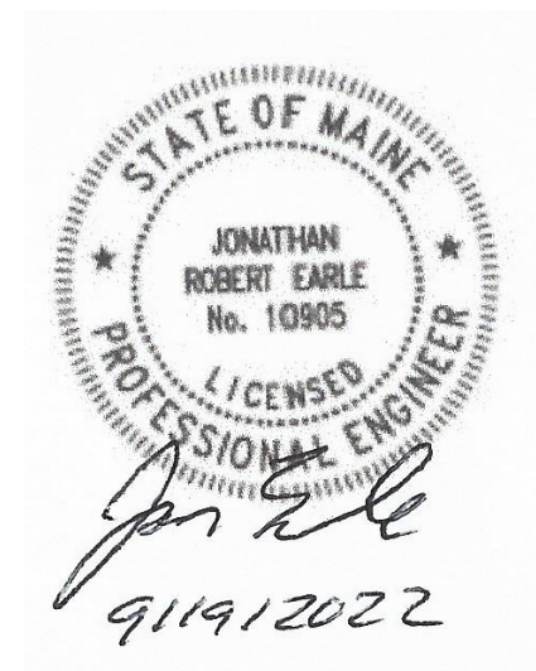
INTERCHANGE IMPROVEMENTS  
SACO (EXITS 35 & 36)  
LIMIT OF DISTURBANCE PLAN 4

SHEET NUMBER: LOD-01  
301 OF 735

CONTRACT: 2022.07

# MAINE WATER

## STATE ROUTE 112 & MAINE TURNPIKE WATER MAIN REPLACEMENT CROSSING UNDER MAINE TURNPIKE IN SACO



INDEX OF SHEETS	
Description	Sheet No.
Title Sheet .....	1
Turnpike Crossing Plan/Profile .....	2
Hydrant Relocation Plan .....	3
North Street Main Relocation Plan .....	4
Details .....	5

*Jon Earle*  
 \_\_\_\_\_  
 JON EARLE, P.E. -  
 MANAGER OF ENGINEERING & TECHNICAL SERVICES  
 MAINE WATER COMPANY

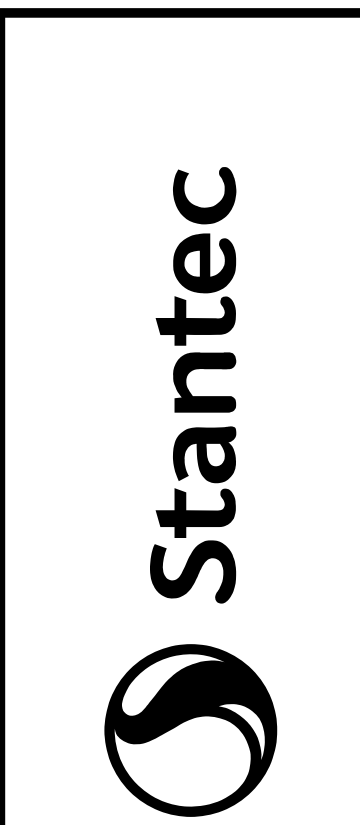
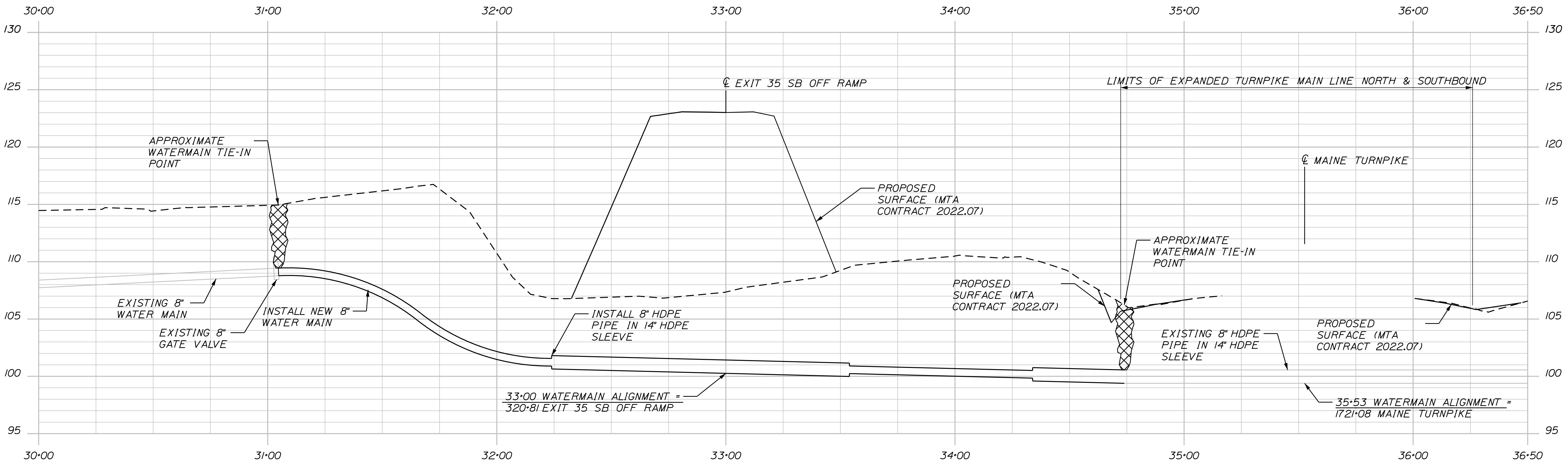
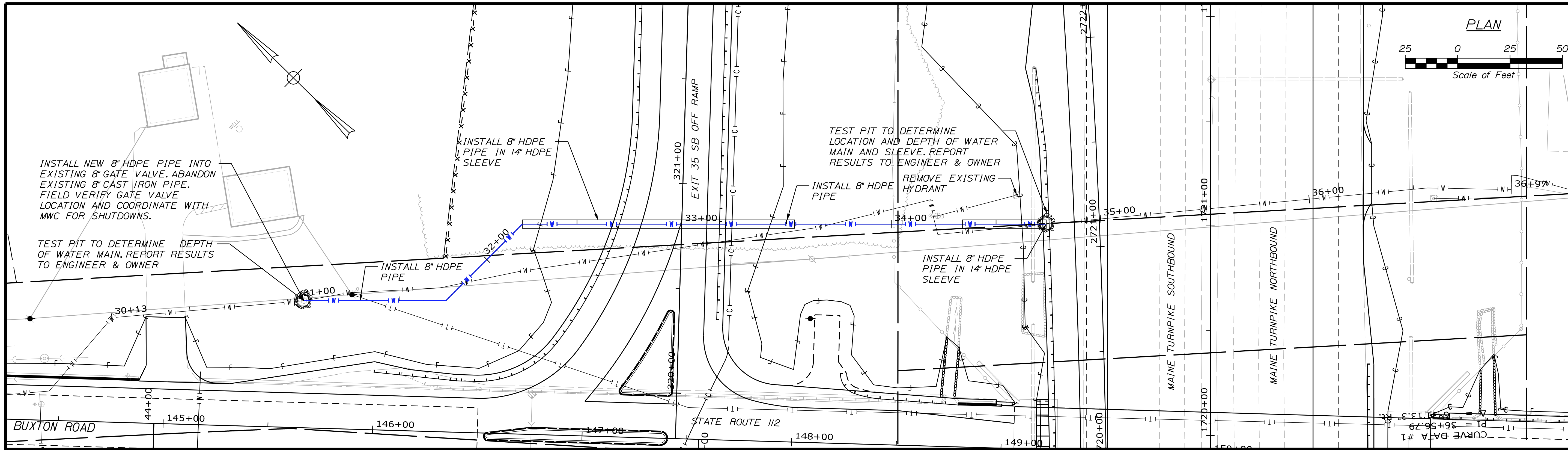
October 5, 2022  
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 DATE

PROJECT INFORMATION	SIGNATURE
PROGRAM	DESIGNER
PROJECT MANAGER	PROJECT RESIDENT
DESIGNER	CONTRACTOR
CONSULTANT	PROJECT COMPLETION DATE
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	
MAINE WATER	
TITLE SHEET	
SHEET NUMBER	
1	
OF 5	

Date: 9/14/2022

Username: ppotlitt

Filename: ...mainwater\_plan-profile.dwg



DESIGN-DETAILED	THG	09/22	DATE
CHECKED-REVIEWED	LEM	09/22	DATE
DESIGN-DETAILED	JRH		DATE
DESIGN-DETAILED	CHL		DATE
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

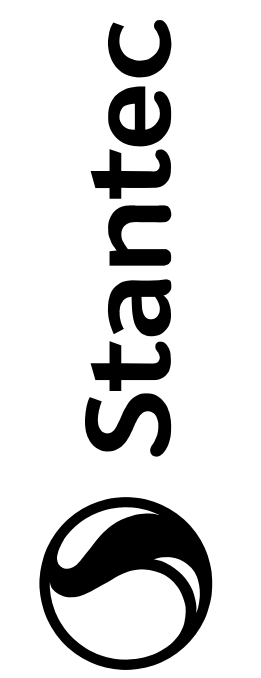
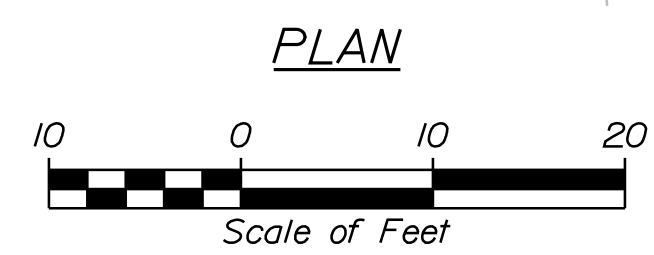
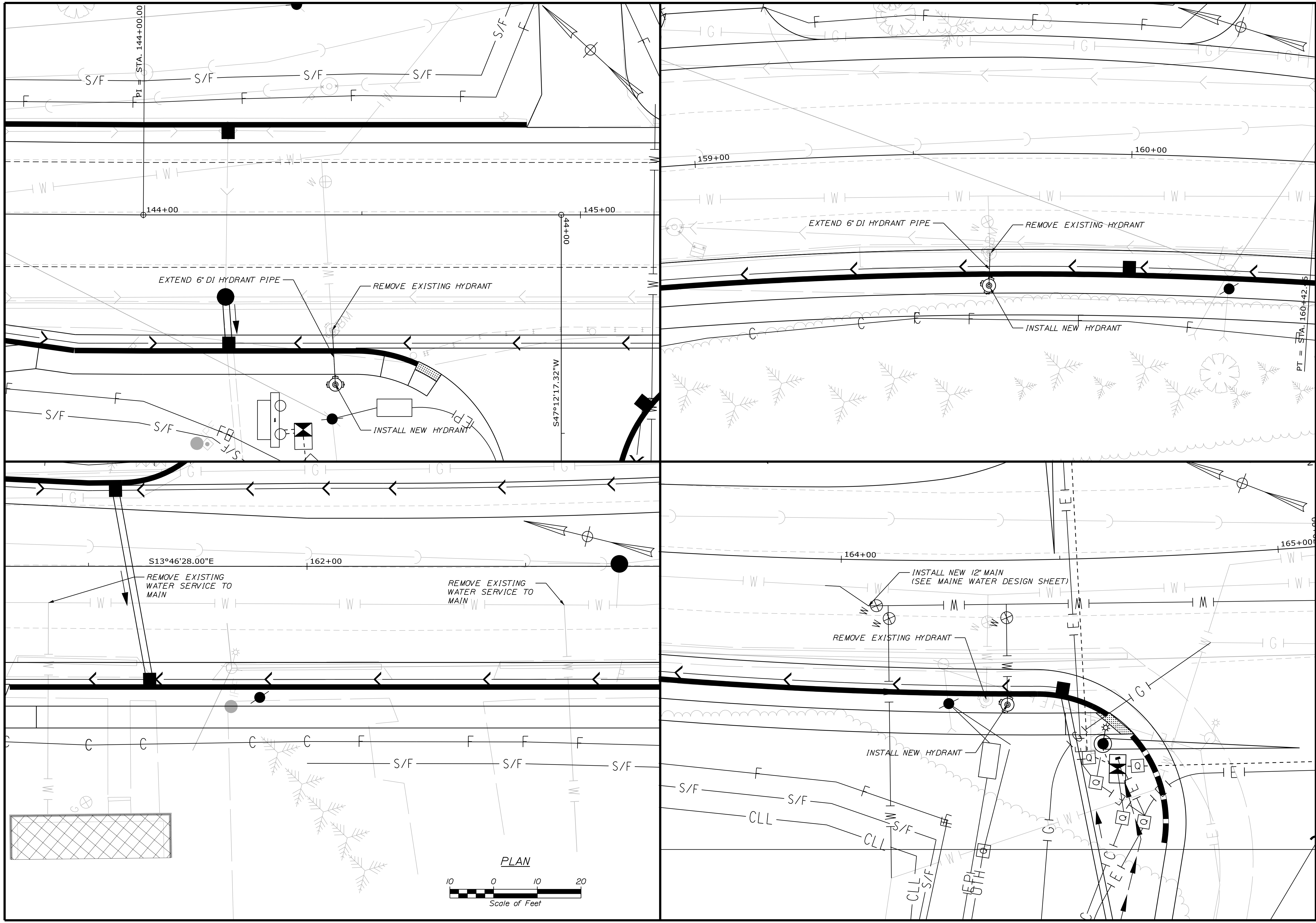
PROJ. MANAGER	AUREN MEEK	P.E.
BY	THG	09/22
BY	LEM	09/22
BY	CHL	
BY		
BY		
BY		
BY		
BY		

MAINE WATER  
TURNPIKE CROSSING  
WATER MAIN RELOCATION  
PLAN/PROFILE

SHEET NUMBER

2

OF 5

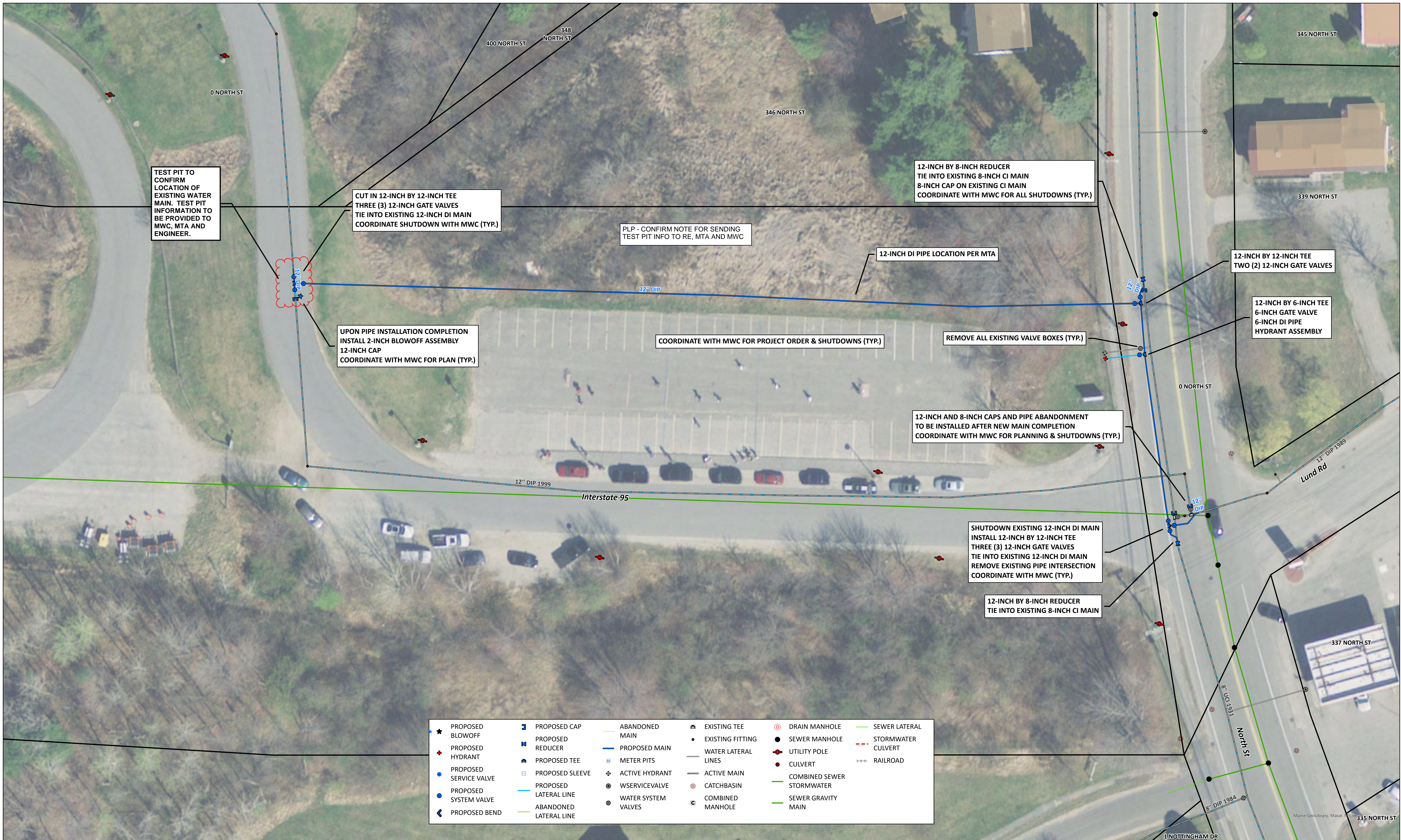


PROJ. MGR.	MANAGER	AUREN MEEK	P.E.	BY	DATE
DESIGNED	DETAILED	PIP	LEM	THG	09/22
CHECKED	REVIEWED	LEM	CHL	LEM	09/22
DESIGNED	DETAILED	JRH	CHL	CHL	09/22
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

**MAINE WATER  
TURNPIKE CROSSING  
WATER MAIN RELOCATION  
HYDRANT & SERVICE PLAN**

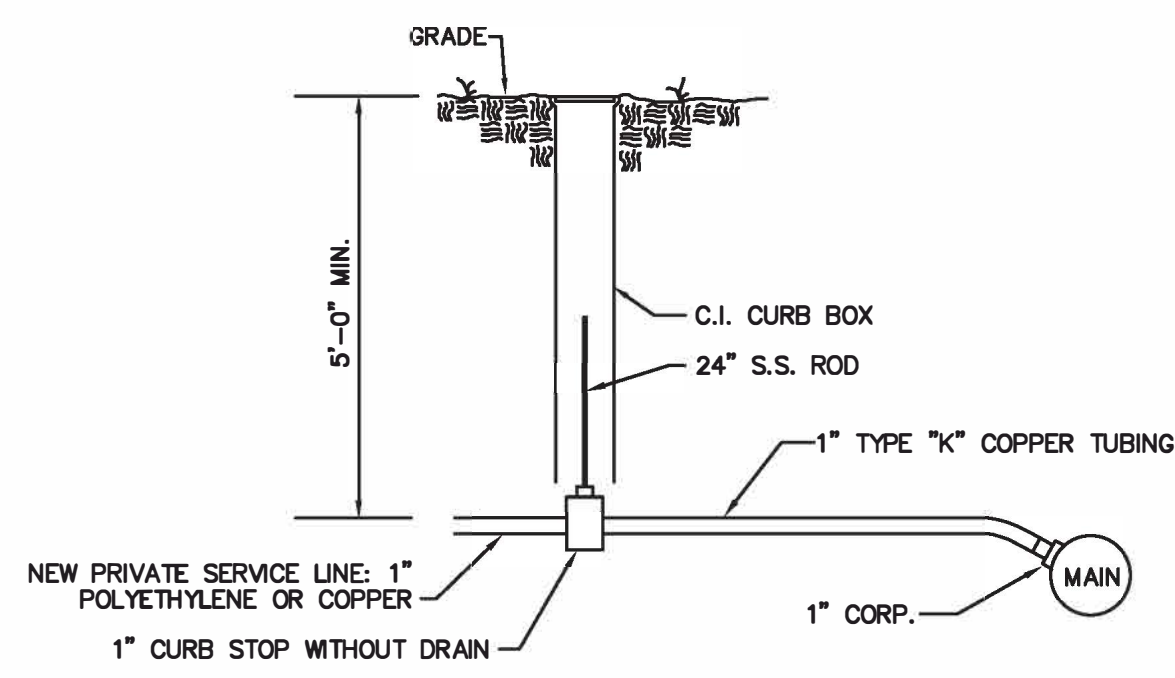
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**3**  
OF 5





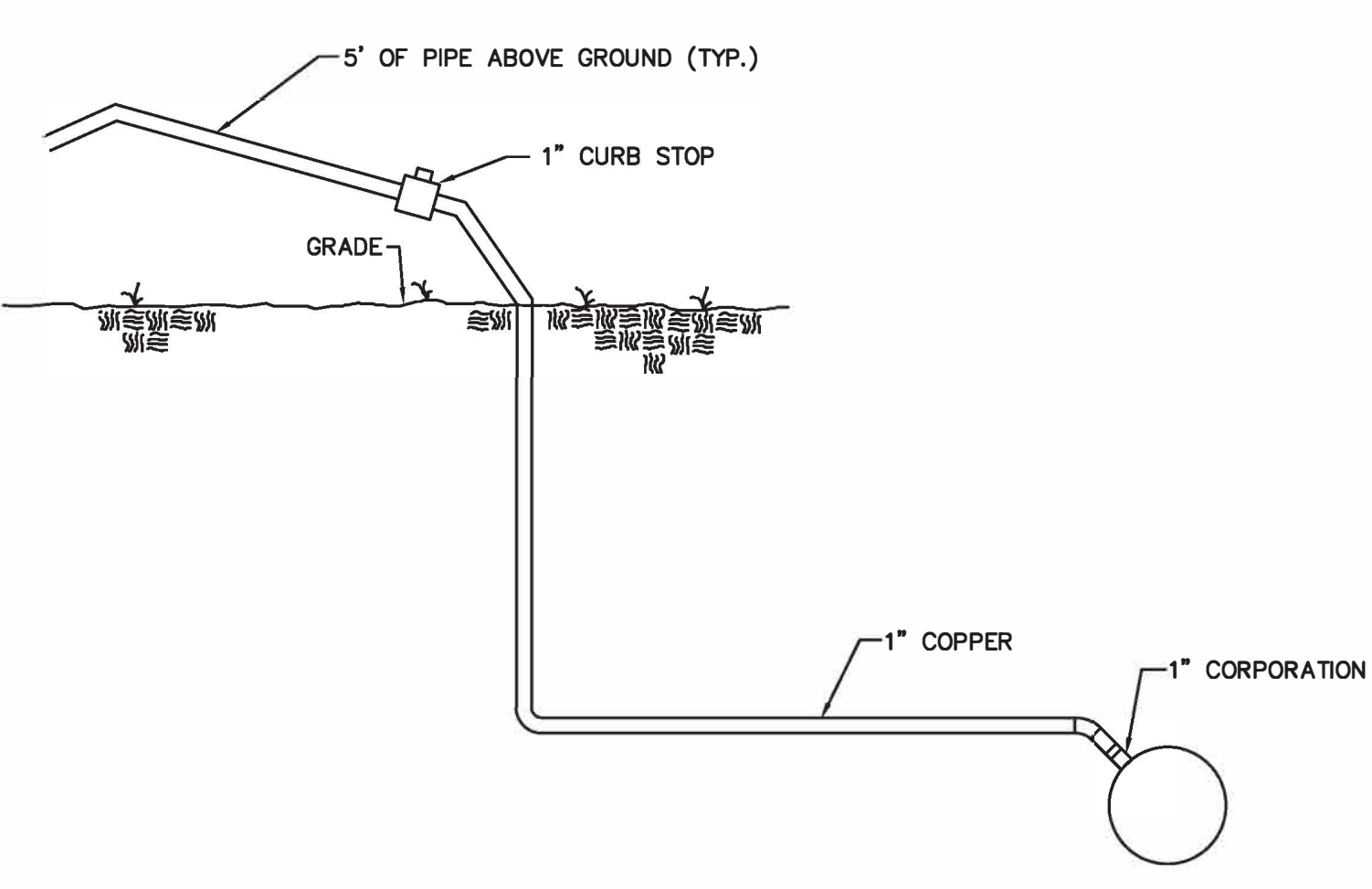
★ PROPOSED BLOWOFF	✂ PROPOSED CAP	--- ABANDONED MAIN	⊕ EXISTING TEE	⊙ DRAIN MANHOLE	— SEWER LATERAL
⊕ PROPOSED HYDRANT	✂ PROPOSED REDUCER	— PROPOSED MAIN	● EXISTING FITTING	● SEWER MANHOLE	- - - STORMWATER CULVERT
● PROPOSED SERVICE VALVE	⊕ PROPOSED TEE	⊕ METER PITS	⊕ UTILITY POLE	● CULVERT	+++ RAILROAD
● PROPOSED SYSTEM VALVE	□ PROPOSED SLEEVE	⊕ ACTIVE HYDRANT	— WATER LATERAL LINES	— COMBINED SEWER STORMWATER	
◀ PROPOSED BEND	— PROPOSED LATERAL LINE	⊕ WSERVICEVALVE	— ACTIVE MAIN	— SEWER GRAVITY MAIN	
	— ABANDONED LATERAL LINE	⊕ WATER SYSTEM VALVES	⊕ CATCHBASIN		
		⊕ COMBINED MANHOLE	⊕ COMBINED MANHOLE		

Sheet 4 of 5	<p>93 Industrial Park Road Saco, ME 04072 Phone: (207) 282-1543 Fax: (207) 282-1544 www.mainewater.com</p>	PROJECT: NORTH STREET & MTA WM REPLACEMENT	SHEET TITLE: WM REPLACEMENT DESIGN			NO.	REVISIONS	DATE:
		LOCATION: NORTH STREET	DATE: 8/30/2022	SCALE: 1 IN = 20 FT		1.	ORIGINAL	8/30/2022
WORK ORDER NO. XXXXXXX		TOWN: SACO COUNTY: YORK	DRAWN BY: B.M.J.	CHECKED BY:	<p>NOTE: THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS TO MAINE WATER COMPANY PRIOR TO COMMENCING WORK.</p>	2.		
						3.		

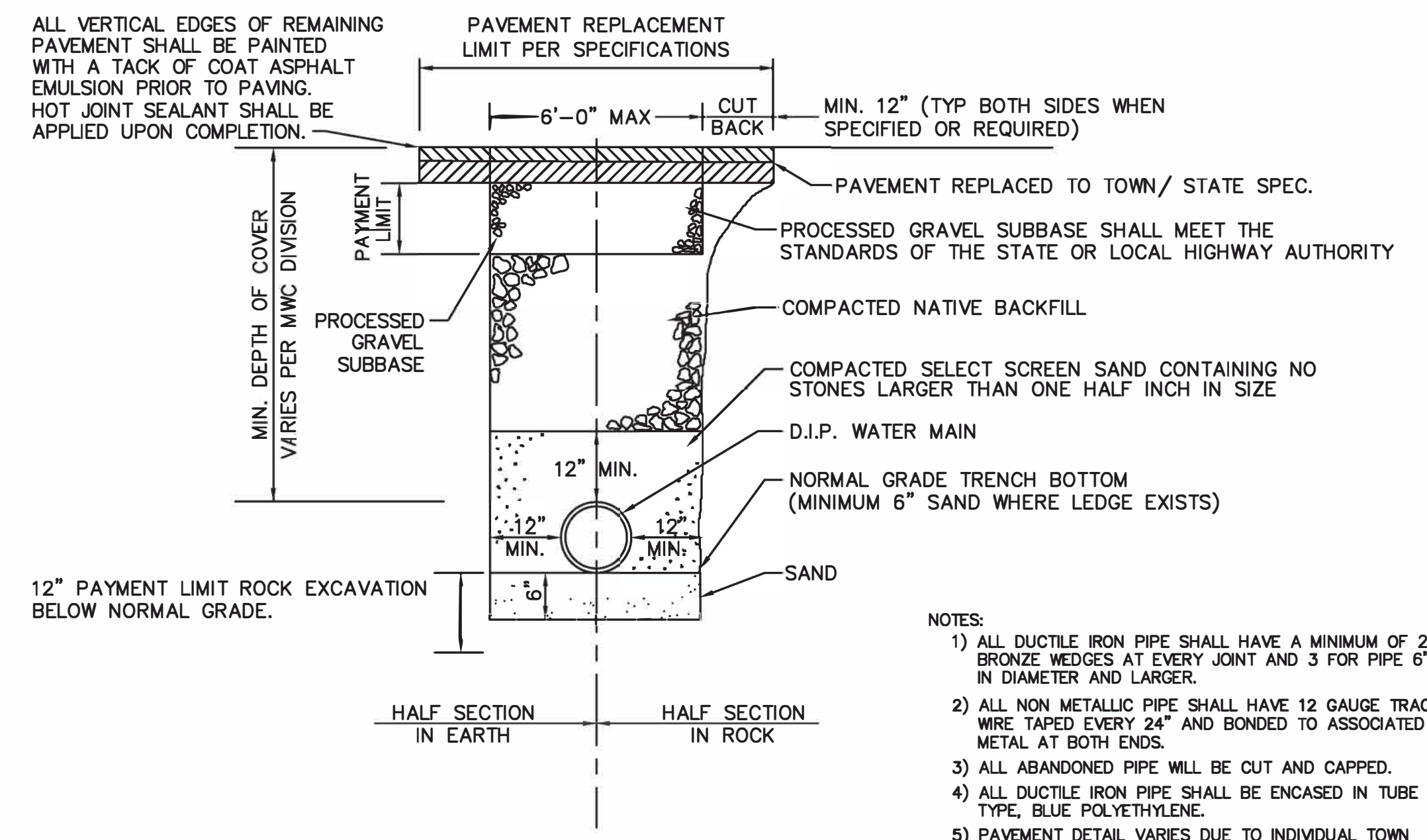


CURB STOP VALVE

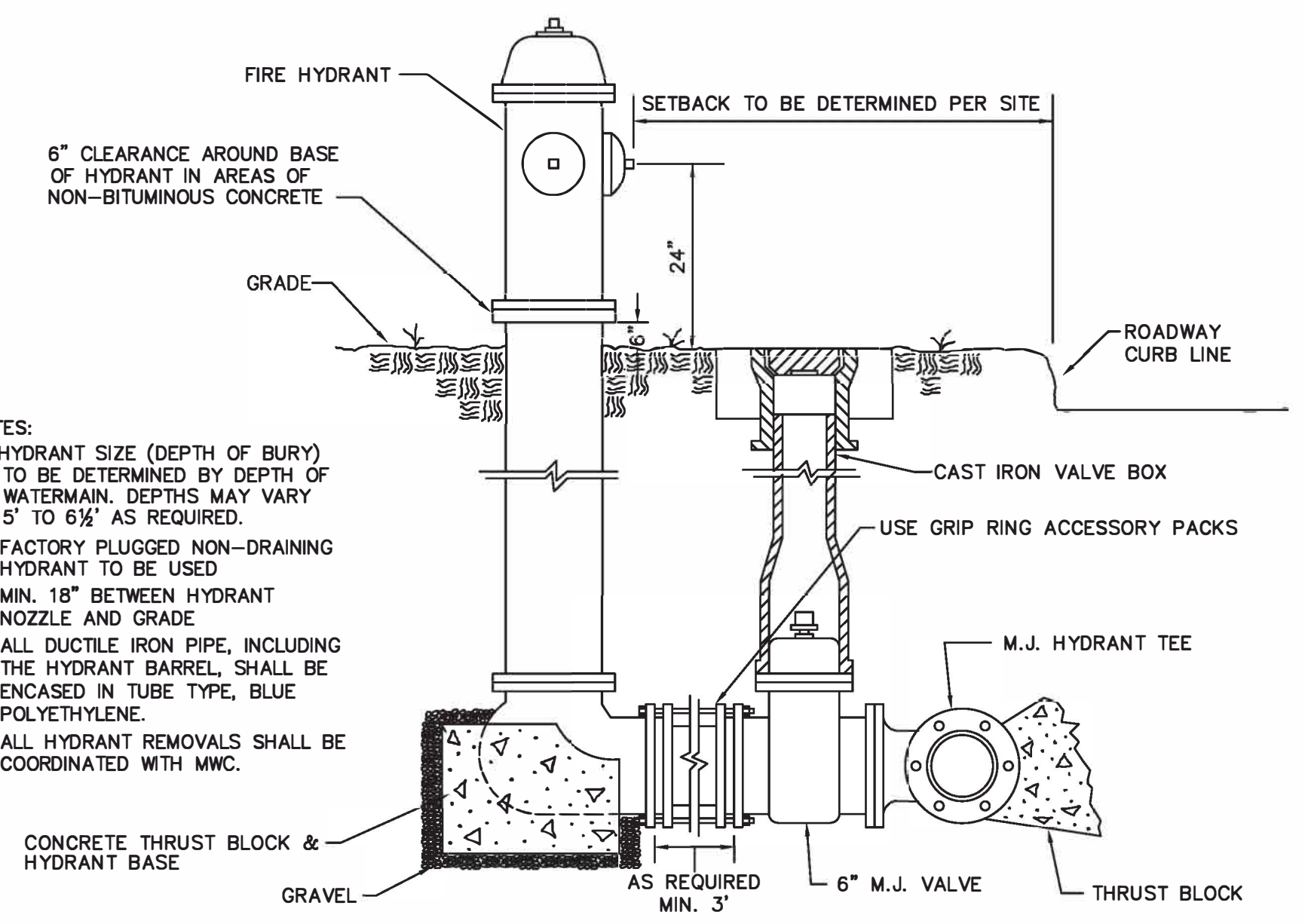
- NOTE:
- 1.) CURB BOXES IN PAVEMENT OR IN GRAVEL PRONE TO MOTOR VEHICLE TRAFFIC SHALL BE PROTECTED BY A VALVE BOX TOP.
  - 2.) RECONNECT NEW SERVICE PIPE TO EXISTING 3/4" OR 1" SERVICE PIPE.
  - 3.) SINGLE STRAND, MINIMUM 12 GAUGE, METALLIC TRACER WIRE SHALL BE TAPED TO ALL NON-METALLIC PIPE AND BONDED TO ASSOCIATED METAL (VALVES, FITTINGS, ETC.) AT THE ENDS FOR DIRECT CONNECTION SIGNAL LOCATING.



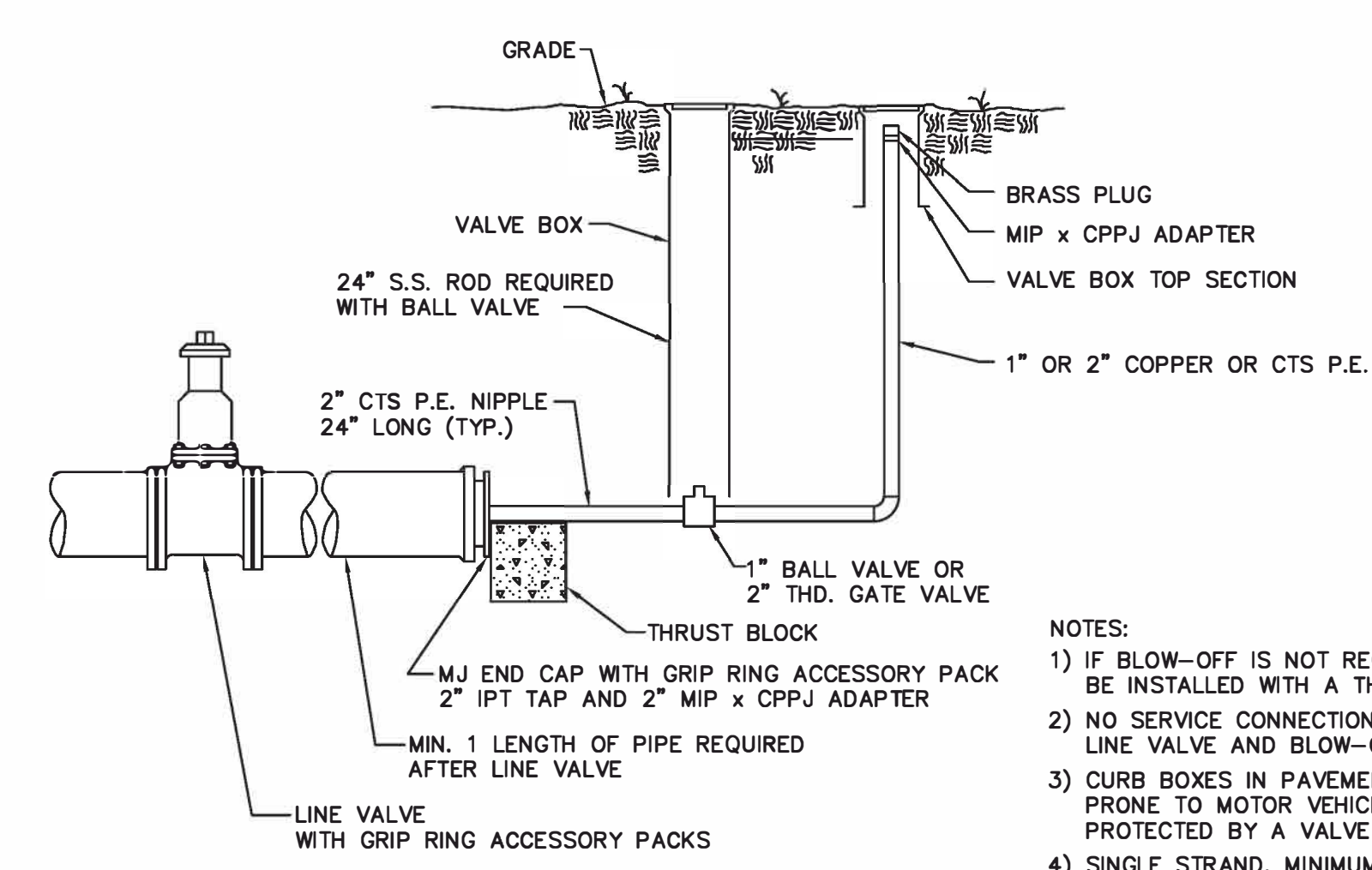
- NOTE:
- 1.) DISINFECTION LINE SHALL BE REMOVED AND CORP. SHUT OFF AFTER ALL PIPE TESTING IS COMPLETE. (IF THE LINE WILL BE USED AS A SERVICE LINE, REFER TO THE SERVICE LINE DETAIL)



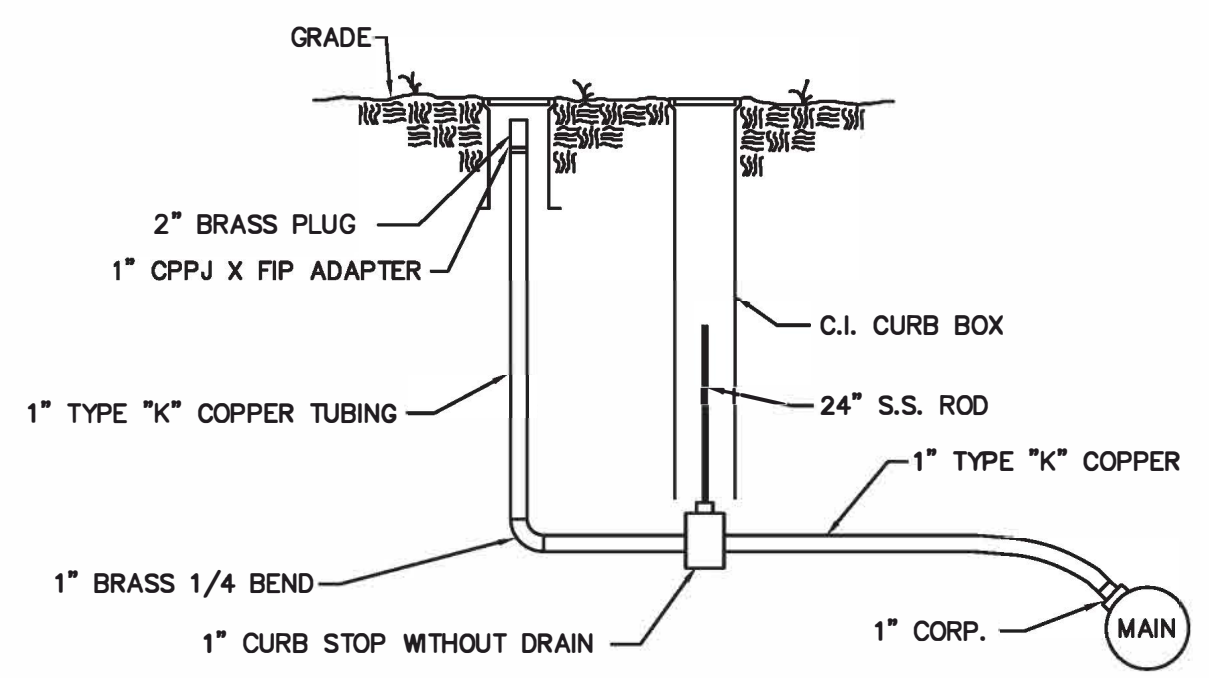
- NOTES:
- 1) ALL DUCTILE IRON PIPE SHALL HAVE A MINIMUM OF 2 BRONZE WEDGES AT EVERY JOINT AND 3 FOR PIPE 6" IN DIAMETER AND LARGER.
  - 2) ALL NON METALLIC PIPE SHALL HAVE 12 GAUGE TRACER WIRE TAPED EVERY 24" AND BONDED TO ASSOCIATED METAL AT BOTH ENDS.
  - 3) ALL ABANDONED PIPE WILL BE CUT AND CAPPED.
  - 4) ALL DUCTILE IRON PIPE SHALL BE ENCASED IN TUBE TYPE, BLUE POLYETHYLENE.
  - 5) PAVEMENT DETAIL VARIES DUE TO INDIVIDUAL TOWN SPECIFICATIONS. DIMENSIONS MAY BE ALTERED DUE TO SPECIFIC REQUIREMENTS OF TOWN IN WHICH PROJECT IS LOCATED.



- NOTES:
- 1) HYDRANT SIZE (DEPTH OF BURY) TO BE DETERMINED BY DEPTH OF WATERMAIN. DEPTHS MAY VARY 5" TO 6 1/2" AS REQUIRED.
  - 2) FACTORY PLUGGED NON-DRAINING HYDRANT TO BE USED.
  - 3) MIN. 18" BETWEEN HYDRANT NOZZLE AND GRADE.
  - 4) ALL DUCTILE IRON PIPE, INCLUDING THE HYDRANT BARREL, SHALL BE ENCASED IN TUBE TYPE, BLUE POLYETHYLENE.
  - 5) ALL HYDRANT REMOVALS SHALL BE COORDINATED WITH MMC.

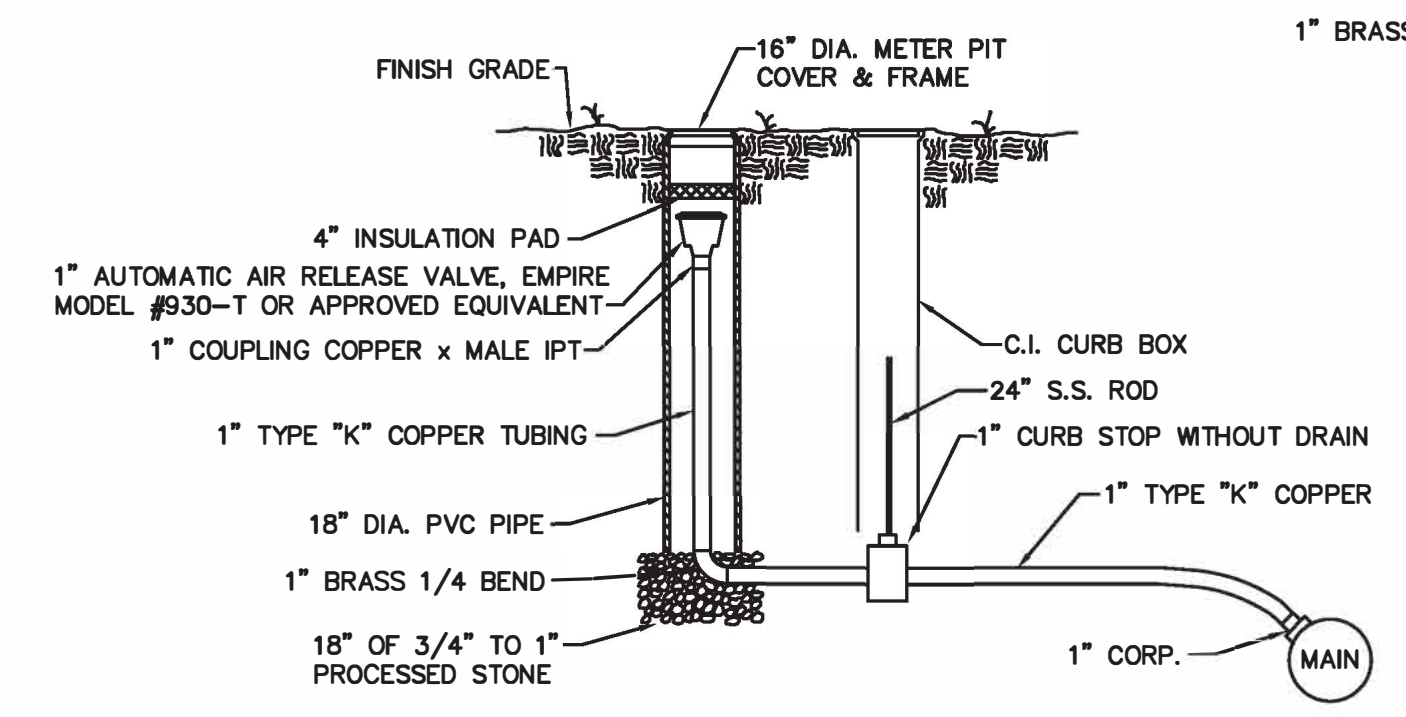


- NOTES:
- 1) IF BLOW-OFF IS NOT REQUIRED, CAP CAN BE INSTALLED WITH A THRUST BLOCK.
  - 2) NO SERVICE CONNECTIONS BETWEEN LINE VALVE AND BLOW-OFF ASSEMBLY.
  - 3) CURB BOXES IN PAVEMENT OR IN GRAVEL PRONE TO MOTOR VEHICLE TRAFFIC SHALL BE PROTECTED BY A VALVE BOX TOP.
  - 4) SINGLE STRAND, MINIMUM 12 GAUGE, METALLIC TRACER WIRE SHALL BE TAPED TO ALL NON-METALLIC PIPE AND BONDED TO ASSOCIATED METAL (VALVES, FITTINGS, ETC.) AT THE ENDS FOR DIRECT CONNECTION SIGNAL LOCATING.

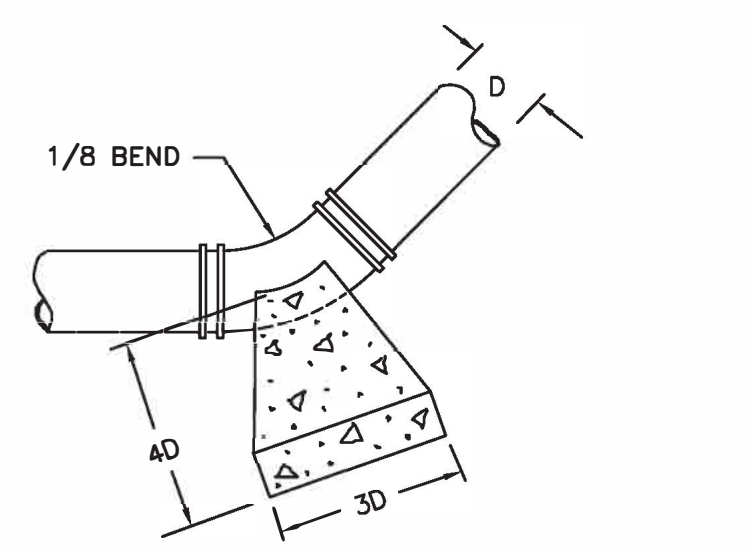


MANUAL AIR RELEASE VALVE

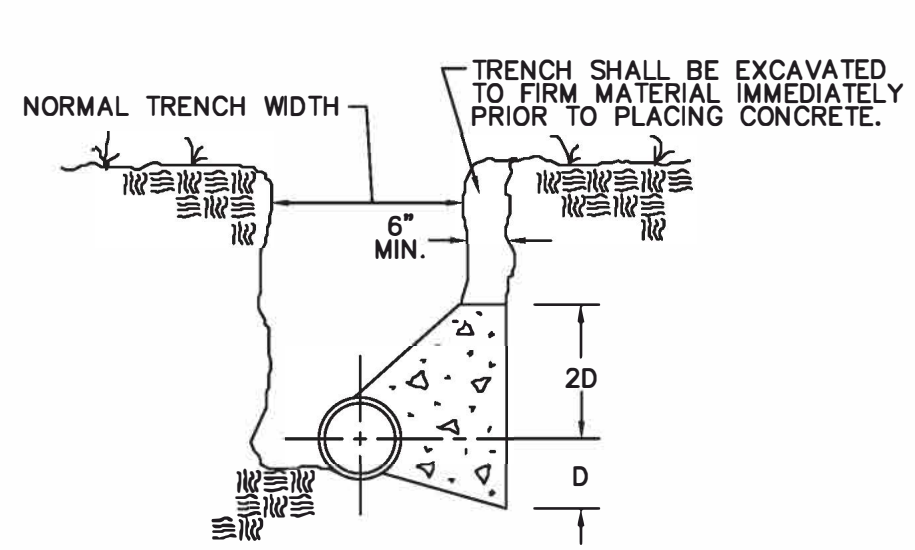
- NOTE:
- 1.) CURB BOXES IN PAVEMENT OR IN GRAVEL PRONE TO MOTOR VEHICLE TRAFFIC SHALL BE PROTECTED BY A VALVE BOX TOP.



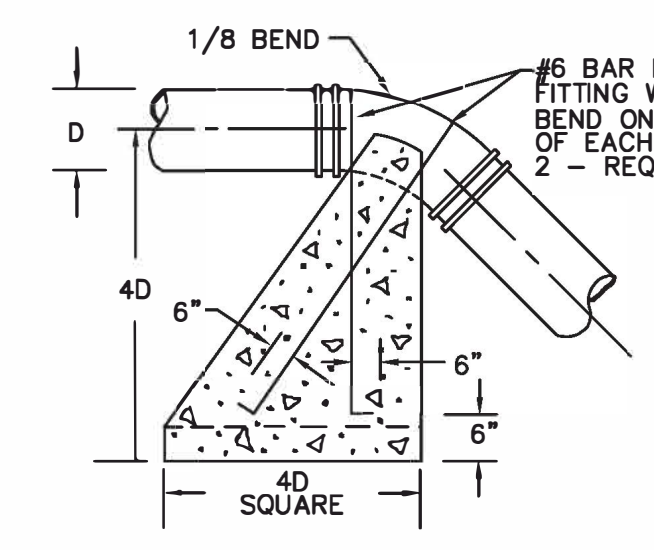
AUTOMATIC AIR RELEASE VALVE



HORIZONTAL THRUST BLOCK DETAIL (PLAN VIEW)



HORIZONTAL THRUST BLOCK DETAIL



VERTICAL THRUST BLOCK DETAIL

- NOTES:
- 1) 3000 PSI CONCRETE TO BE USED FOR THRUST BLOCKS.
  - 2) D-DIAMETER OF WATER MAIN.
  - 3) GRIP RING RESTRAINING GLANDS SHALL BE USED ON ALL MJ FITTINGS 12" AND SMALLER. MEGA LUG RESTRAINING GLANDS SHALL BE USED ON ALL MJ FITTINGS GREATER THAN 12".

DATE	BY	CHK	APP	SIGNATURE	P.E. NUMBER	DATE
09/22	LEM	CHL				
09/22	CHL					

PROJ. MANAGER	DESIGN DETAIL	CHECKED	DESIGNED	REVISIONS	FIELD CHANGES
AUREN MEEK	PIP	LEM	CHL	1	4
				2	
				3	
				4	

MAINE WATER TURNPIKE CROSSING  
WATER MAIN RELOCATION DETAILS

SHEET NUMBER

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