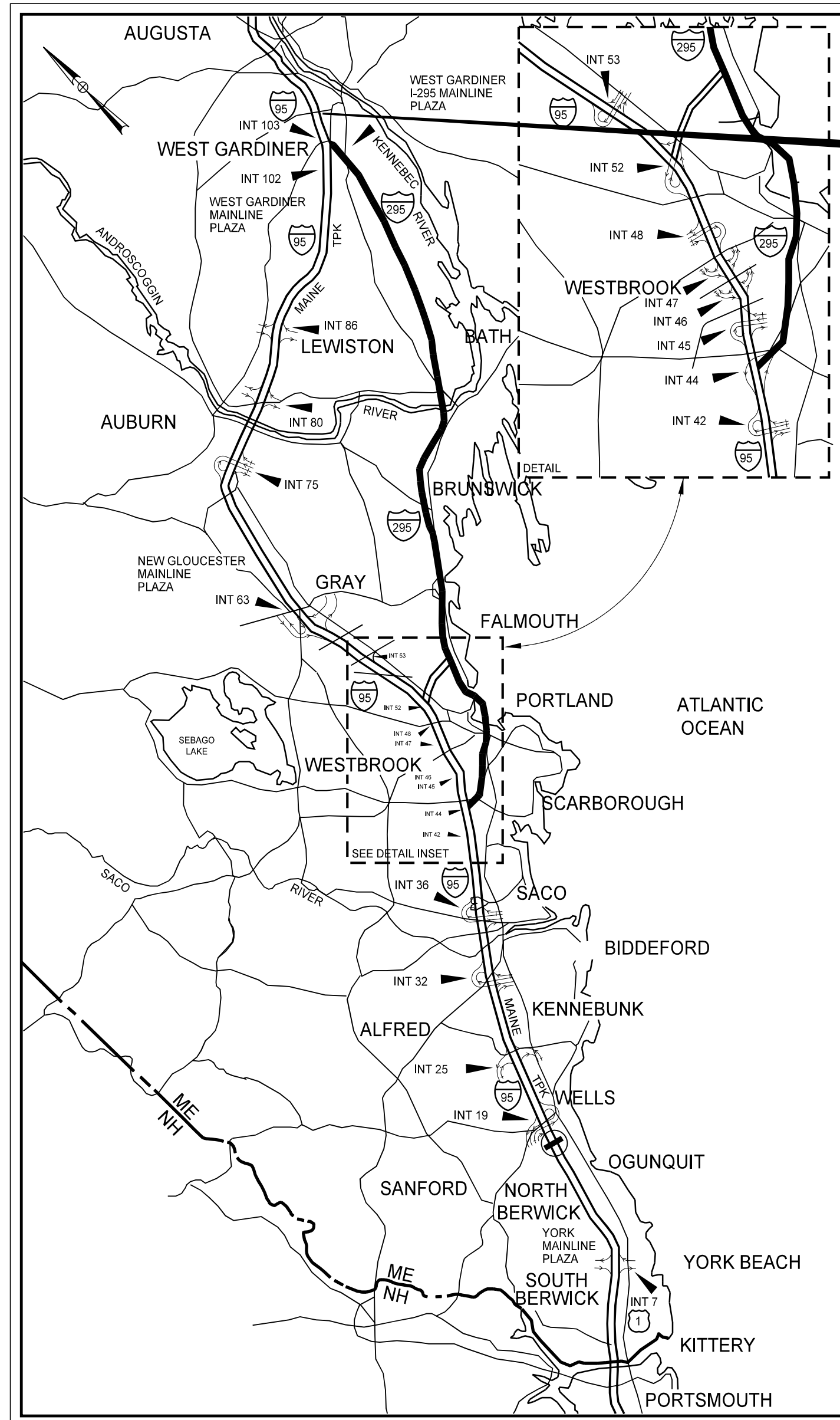
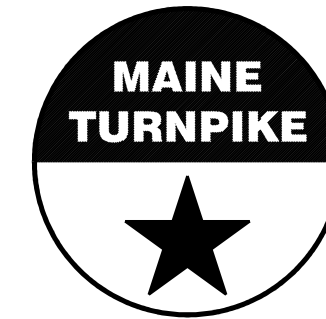


Date: 6/24/2023

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LOCATION MAP



THE GOLD STAR  
MEMORIAL HIGHWAY

# MAINE TURNPIKE AUTHORITY

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

S. PETER MILLS, EXECUTIVE DIRECTOR

## CONTRACT 2023.04

## EMERGENCY VEHICLE RAMPS HIGH STREET (MM 103.60)

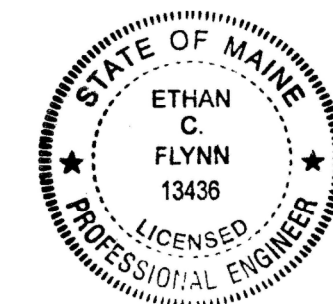
INDEX OF SHEETS	
Sheet No.	Description
1	Title Sheet
2	Estimated Quantities and Earthwork Summary
3	General and Construction Notes
4-5	Maintenance of Traffic Details (2 Sheets)
6	Typical Roadway Sections
7-8	Details (2 Sheets)
9	Fencing Details
10-11	General Plans (2 Sheets)
12-13	Profiles (2 Sheets)
14-15	Disturbance Impact Plans (2 Sheets)
16-31	Cross Sections (16 Sheets)

APPROVED:

MAINE TURNPIKE AUTHORITY

*Peter S. Merfeld*  
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER  
 DATE 06/22/23

*Stephen R. Tartre*  
 STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING &  
 BUILDING MAINTENANCE  
 DATE 6/22/23



*Ethan C. Flynn*  
 Ethan C. Flynn, P.E.  
 Consultant Project Manager

6/21/2023  
DATE

Contract 2023.04

NORTHBOUND EVR EARTHWORK SUMMARY

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	Quantity Total
201.11	Clearing	AC	0.56
201.23	Removing Single Tree Top Only	EA	2
201.24	Removing Stump	EA	2
203.2	Common Excavation	CY	2,700
203.24	Common Borrow	CY	3,500
203.25	Granular Borrow	CY	625
304.1	Aggregate Subbase Course-Gravel	CY	1,540
304.14	Aggregate Base Course - Type A	CY	430
403.207	Hot Mix Asphalt, 19.0 mm Nominal Maximum Size (Base)	TON	300
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Surface)	TON	186
409.15	Bituminous Tack Coat RS-I or RSh - Applied	GAL	87
419.3	Sawing Bituminous Pavement	LF	800
603.159	12 inch Culvert Pipe Option III	LF	10
603.179	18 inch Culvert Pipe Option III	LF	43
603.199	24 inch Culvert Pipe Option III	LF	110
604.169	Remove Catch Basin	EA	1
604.246	Catch Basin Type F5	EA	1
606.1301	3" W-Beam Guardrail, Mid-Way Splice - Single Faced	LF	225
606.1304	3" W-Beam Guardrail, Mid-Way Splice - Over 15' Radius	LF	225
606.1305	3" W-Beam Guardrail, Mid-Way Splice - Flared Terminal	EA	1
606.1351	3" W-Beam Guardrail, Mid-Way Splice - Terminal End - Anchored End	EA	6
606.353	Reflectorized Flexible Guardrail Marker	EA	6
606.3561	Delineator Post - Remove and Reset	EA	6
607.17	Chain Link Fence - 6 Foot	LF	200
607.32	Bracing Assembly Type I - Metal Posts	EA	4
607.33	Bracing Assembly Type II - Metal Posts	EA	5
609.31	Curb Type 3	LF	50
610.08	Plain Riprap	CY	10
610.181	Temporary Stone Check Dam	CY	20
613.319	Erosion Control Blanket	SY	1,280
615.07	Loam	CY	450
618.14	Seeding Method Number 2	UNIT	37
619.1201	Mulch - Plan Quantity	UNIT	37
619.1202	Temporary Mulch	LS	1
620.58	Erosion Control Geotextile	SY	55
629.05	Hand Labor, Straight Time	HR	30
631.12	All Purpose Excavator (including operator)	HR	30
631.171	Truck - small (including operator)	HR	60
631.32	Culvert Cleaner (including operator)	HR	8
631.36	Foreperson	HR	16
645.271	Regulatory, Warning, Confirmation and Route Assembly Sign, Type I	SF	67
652.361	Maintenance of Traffic Control Devices	LS	1
652.38	Flaggers	HR	100
656.5	Baled Hay, in place	EA	30
656.632	30 inch Temporary Silt Fence	LF	1,840
659.1	Mobilization	LS	1
827.37	Electrical Conduit Trenching	LF	35

\* Quantities are Estimated Only

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	1,237
GRUBBING IN FILL	259
MUCK EXCAVATION	259
TOTAL COMMON EXCAVATION (for estimate)	1,755

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	1,223
GRUBBING IN FILL	259
MUCK EXCAVATION	259
TOTAL FILL	1,741

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION	1,755
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DEDUCTIONS:

GRUBBING IN CUT	529
GRUBBING IN FILL	259
MUCK EXCAVATION	259
(2) TOTAL DEDUCTIONS	1,047

TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)

	708
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COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW TO REPLACE MUCK	259
GRANULAR BORROW =	259 x 1.00 = 259

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3) TOTAL FILL	1,741
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TOTAL AVAIL. NON-ROCK EXCAV.	708 x 0.90 = 637
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(4) TOTAL AVAILABLE EXCAVATION	637
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BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION	1,103
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GRANULAR BORROW TO REPLACE MUCK	259
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COMMON BORROW NEEDED = BORROW NEEDED MINUS GRANULAR BORROW	844
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SOUTHBOUND EVR EARTHWORK SUMMARY

COMMON EXCAVATION FOR ESTIMATE

COMMON EXCAVATION (FROM CROSS SECTIONS)	432
GRUBBING IN FILL	169
MUCK EXCAVATION	342
TOTAL COMMON EXCAVATION (for estimate)	943

FILL FOR BORROW CALCULATIONS

COMMON FILL (FROM CROSS SECTIONS)	2,594
GRUBBING IN FILL	169
MUCK EXCAVATION	342
TOTAL FILL	3,105

AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS

(1) TOTAL COMMON EXCAVATION	943
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DEDUCTIONS:

GRUBBING IN CUT	283
GRUBBING IN FILL	169
MUCK EXCAVATION	342
(2) TOTAL DEDUCTIONS	794

TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)

	149
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COMPUTATION OF GRANULAR BORROW FOR ESTIMATE

GRANULAR BORROW TO REPLACE MUCK	342
GRANULAR BORROW =	342 x 1.00 = 342

COMPUTATION FOR COMMON BORROW FOR ESTIMATE

(3) TOTAL FILL	3,105
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TOTAL AVAIL. NON-ROCK EXCAV.	149 x 0.90 = 134
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(4) TOTAL AVAILABLE EXCAVATION	134
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BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION	2,971
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GRANULAR BORROW TO REPLACE MUCK	342
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COMMON BORROW NEEDED = BORROW NEEDED MINUS GRANULAR BORROW	2,629
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Date: 6/24/2023

Filename: ... \002\_Earthworks\_Quantities.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
					
CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

HIGH STREET  
EMERGENCY VEHICLE RAMPS  
ESTIMATED QUANTITIES  
AND EARTHWORK SUMMARY

VHB: 55639.00 SHEET NUMBER: 2  
CONTRACT: 2023.04 2 OF 31

**GENERAL CONSTRUCTION**

1. ALL WORK SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) 2020 STANDARD DETAILS AND 2014 STANDARD SPECIFICATIONS WITH ALL UPDATES, AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE NOTED IN THESE PLANS.

2. DURING CONSTRUCTION, TRAFFIC WILL BE MAINTAINED AS SHOWN IN THE PLANS AND AS REQUIRED IN THE SPECIAL PROVISIONS.

3. ALL EXISTING DELINEATOR AND MILE MARKER POSTS WITHIN LIMITS OF DISTURBANCE SHALL BE REMOVED AND RESET UPON COMPLETION OF THE CONTRACT. PAYMENT WILL BE MADE UNDER ITEM 606.356I.

4. EXISTING ROW FENCE AND EXISTING CHAIN LINK FENCE AND GATES WITHIN THE LIMITS OF WORK, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT, SHALL BE REMOVED AND DISPOSED. THIS WORK SHALL BE INCIDENTAL TO THE PROPOSED FENCE ITEMS. PROPOSED CHAIN LINK FENCE AND PIPE ENTRY GATE SHALL BE INSTALLED CONTINUOUSLY WITH NO GAPS. IF REQUIRED, CONNECTION FOR PROPOSED FENCE TO EXISTING FENCE SHALL BE INCIDENTAL TO THE CONTRACT.

5. THE PROPOSED ELEVATIONS ARE BASED ON THE NAVD 88 DATUM.

6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID IMPACTS BEYOND WHAT IS SHOWN IN THESE PLANS TO DELINEATED WETLAND AREAS.

7. ALL WORK MUST BE COMPLETED WITHIN THE RIGHT OF WAY SHOWN IN THESE PLANS.

8. THE CONTRACTOR SHALL SUBMIT PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.

9. THE CONTRACTOR SHALL PLACE APPROACH PAVEMENT AT ALL LOCATIONS TO ACHIEVE A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENT.

10. 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.

11. 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.

**DRAINAGE**

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.

2. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.

3. ALL DITCH ELEVATIONS AND OFFSETS SHOWN ON THE CROSS SECTIONS ARE FOR THE FINISHED DITCH FLOW LINE.

4. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19 AND BE PAID FOR AS 203.25 GRANULAR BORROW.

**EARTHWORK**

1. THE CLEARING LIMITS SHALL BE 10' BEYOND AND PARALLEL TO CONSTRUCTION SLOPE LINES OR AS SHOWN ON THE PLANS. 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. ALL CLEARING SHALL BE DONE WITHIN THE ROW.

2. THE NORMAL GRUBBING WIDTH IN THE FILLS SHALL BE VARIABLE LEFT OR RIGHT, WHEN SUBGRADE IS LESS THAN 5' ABOVE OLD GROUND. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 12".

3. MUCK EXCAVATION HAS BEEN ESTIMATED IN ALL WETLAND AREAS AT A 2' DEPTH. THE CONTRACTOR SHALL CONFIRM WITH THE RESIDENT THE ACTUAL LIMITS AND DEPTH BEFORE PLACING ANY AGGREGATE.

4. WASTE MATERIALS SHALL BE DISPOSED OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.

5. 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).

6. THE CONTRACTOR SHALL MINIMIZE SLOPE DISTURBANCES WHERE POSSIBLE, AS DIRECTED BY THE RESIDENT.

7. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION, IN LOW WET AREAS 1' ABOVE WATER LEVEL, OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL AS SPECIFIED IN STANDARD SPECIFICATION 703.19 AND BE PAID FOR AS 203.25 GRANULAR BORROW.

**GUARDRAIL**

1. COMPOSITE OFFSET BLOCKS SHALL BE USED WITH GUARDRAIL.

2. AT THE END OF EACH WORK DAY, ALL GUARDRAIL WITHIN WORK AREAS ACCESSIBLE TO TRAFFIC SHALL HAVE AN APPROVED CRASHWORTHY END TREATMENT.

3. CONNECTIONS FOR PROPOSED GUARDRAIL TO EXISTING GUARDRAIL SHALL BE INCIDENTAL TO THE PROPOSED GUARDRAIL ITEMS.

4. ALL EXISTING GUARDRAIL REMOVED AND NOT RESUSED ON THE PROJECT WILL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVAL AND DISPOSAL SHALL BE CONSIDERED INCIDENTAL TO THE GUARDRAIL ITEMS.

5. POST HOLES FROM GUARDRAIL REMOVED OR RESET SHALL BE FILLED AND COMPACTED WITH GRANULAR BORROW AND PAVEMENT TO MATCH SURROUNDING PAVEMENT THICKNESS.

**EROSION CONTROL**

1. THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL DEVICES MAY BE PROPOSED BY THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.

2. 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.

3. ALL SLOPES SHALL BE SEEDED WITH SEEDING METHOD #2.

4. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.

5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.

6. TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES. STONE CHECK DAMS SHALL BE SPACED APPROXIMATELY 100 FEET FOR DITCH GRADES LESS THAN 3% AND SPACED APPROXIMATELY 50 FEET FOR DITCH GRADES STEEPER THAN 5%. SEE MAINEDOT BEST MANAGEMENT PRACTICES FOR FURTHER DETAILS.

7. EROSION CONTROL BLANKET, ITEM 613.319 SHALL BE INSTALLED ON 2:1 SLOPES FROM THE 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.

**UTILITY**

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CONTACT DIG SAFE (1-888-DIG-SAFE OR 811) AT LEAST 72 HOURS PRIOR TO STARTING WORK.

2. 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 NOTIFICATION. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES. THE RESIDENT SHALL BE PROVIDED A DIGITAL COPY OF ALL DIG SAFE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND THIRD PARTY UTILITY LOCATOR COORDINATION.

3. 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.

4. THE UTILITIES INVOLVED IN THIS CONTRACT ARE: CENTRAL MAINE POWER (CMP) CONSOLIDATED COMMUNICATIONS CHARTER COMMUNICATIONS, INC.

5. GRADING AROUND UTILITY POLES AND GUY WIRES, EXISTING OR PROPOSED, SHALL BE DONE BY HAND.

6. CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION AS APPROVED BY THE UTILITY OWNERS.

**ITEM 603.159 - 12" CULVERT PIPE OPTION III HDPE ONLY**

LOCATION	QUANTITY (LF)
HIGH ST SB EVR 20+19 TO 20+29 LT	10

**ITEM 603.179 - 18" CULVERT PIPE OPTION III HDPE ONLY**

LOCATION	QUANTITY (LF)
HIGH ST NB EVR 14+64	43

**ITEM 603.199 - 24" CULVERT PIPE OPTION III HDPE ONLY**

LOCATION	QUANTITY (LF)
HIGH ST SB EVR 21+38	62
22+00	48

**ITEM 604.169 - REMOVE CATCH BASIN**

LOCATION	QUANTITY (EA)
HIGH ST SB EVR 20+12, 5.0' RT	1

**ITEM 604.246 - CATCH BASIN TYPE F5**

LOCATION	QUANTITY (EA)
HIGH ST SB EVR 20+19, 25.6' LT	1

**ITEM 606.130I - 31" W-BEAM GUARDRAIL, MID-WAY SPLICE - SINGLE FACED**

STATION TO STATION	OFFSET	QUANTITY (LF)
HIGH ST NB EVR 14+85 TO 14+86	RT	34.5
HIGH ST SB EVR 20+12 TO 20+22	LT	50
21+02 TO 21+27	LT	25
21+04 TO 21+29	RT	25
21+53 TO 22+02	LT	50
21+53 TO 22+02	RT	37.5

**ITEM 606.1304 - 31" W-BEAM GUARDRAIL, MID-WAY SPLICE - OVER 15' RADIUS**

STATION TO STATION	OFFSET	RADIUS	QUANTITY (LF)
HIGH ST SB EVR 20+12 TO 20+37	RT	20	37.5
20+22 TO 20+64	LT	25	50
20+37 TO 21+04	RT	60	100
20+64 TO 21+02	LT	40	37.5

**ITEM 606.1305 - 31" W-BEAM GUARDRAIL, MID-WAY SPLICE FLARED TERMINAL**

STATION	OFFSET	QUANTITY (EA)
HIGH ST NB EVR 14+82 TO 14+85	RT	1

**ITEM 606.135I - W-BEAM GUARDRAIL, MID-WAY SPLICE TERMINAL END - ANCHORED END**

STATION	OFFSET	QUANTITY (EA)
HIGH ST SB EVR 21+29 TO 21+41	RT	1
21+27 TO 21+39	LT	1
21+43 TO 21+53	RT	1
21+44 TO 21+53	LT	1
22+02 TO 22+14	LT	1
22+02 TO 22+14	RT	1

**ITEM 606.353 - REFLECTORIZED FLEXIBLE GUARDRAIL MARKER**

STATION	OFFSET	QUANTITY (EA)
HIGH ST NB EVR 14+82	RT	2
HIGH ST SB EVR 22+14	LT	2
22+14	RT	2

**ITEM 607.17 - CHAIN LINK FENCE - 6 FOOT**

STATION TO STATION	OFFSET	QUANTITY (LF)
HIGH ST NB EVR 12+20 TO 12+80	RT	90
12+20 TO 12+83	LT	60
HIGH ST SB EVR 21+94 TO 22+14	RT	20
22+03 TO 22+14	LT	30

**ITEM 609.3I - CURB TYPE 3**

LOCATION	QUANTITY (LF)
HIGH ST SB EVR 20+12 TO 20+22 LT	50

**ITEM 610.08 - PLAIN RIPRAP**

STATION	OFFSET	QUANTITY (CY)
HIGH ST NB EVR 12+50	RT	4.2
14+64	LT	1.0
14+64	RT	0.8
HIGH ST SB EVR 20+29	LT	0.5
21+34	RT	0.8
21+40	LT	1.9
21+76	RT	1.0
22+07	LT	1.4

**ITEM 610.18I - TEMPORARY STONE CHECK DAM**

STATION	OFFSET	QUANTITY (CY)
HIGH ST NB EVR 12+05 TO 14+60	RT	10.0
12+40 TO 14+60	LT	10.0

**ITEM 613.319 - EROSION CONTROL BLANKET**

STATION TO STATION	OFFSET	QUANTITY (SY)
HIGH ST NB EVR 12+05 TO 14+60	RT	276
12+40 TO 14+60	LT	302
HIGH ST SB EVR 20+12 TO 21+25	RT	397
20+12 TO 21+25	LT	162

**ITEM 620.58 - EROSION CONTROL GEOTEXTILE**

STATION	OFFSET	QUANTITY (SY)
HIGH ST NB EVR 12+50	RT	10
14+64	LT	7
14+64	RT	6
HIGH ST SB EVR 20+29	LT	4
21+34	RT	5
21+40	LT	11
21+76	RT	7
22+07	LT	5


**ITEM 656.632 - 30" TEMPORARY SILT FENCE**

STATION TO STATION	OFFSET	QUANTITY (LF)
HIGH ST NB EVR 10+13 TO 14+89	LT	656
10+18 TO 10+50	RT	53
12+81 TO 14+82	RT	225
HIGH ST SB EVR 20+12 TO 23+02	RT	526
20+12 TO 23+02	LT	328

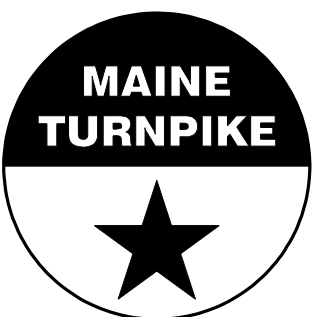
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Scale:		Designed by:	
No.	Revision	By	Date

			
CONSULTANT PROJECT MANAGER: E. Flynn			
	By	Date	
Designed	BMD	6/21/23	Checked ECF 6/21/23
Drawn	AHS	6/21/23	In Charge of AG 6/21/23

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
GENERAL AND CONSTRUCTION NOTES**

VHB: 55639.00 SHEET NUMBER: 3  
CONTRACT: 2023.04 3 OF 31




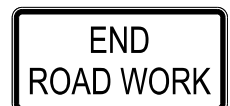



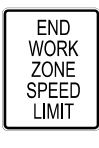



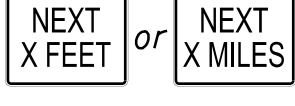
**MAINTENANCE OF TRAFFIC GENERAL NOTES**

- These traffic control details apply to the construction of the High Street Emergency Vehicle Ramps (EVR) at the High Street Underpass at mile marker 103.6 in West Gardiner. The Contractor is directed to use a typical layout from this project's Maintenance of Traffic Details or from the Maine Turnpike Authority Traffic Control Plans located on the MTA website at [www.mainturnpike.com/Projects/Construction-Related-Documents.aspx](http://www.mainturnpike.com/Projects/Construction-Related-Documents.aspx). See also the Special Provisions for more details on specific temporary traffic controls with time and date restrictions.
- All traffic control equipment and devices shall conform to the 2014 edition of the Maine Department of Transportation (MaineDOT) Standard Specifications, Maine Turnpike Authority (MTA) Supplemental Specifications, contract specifications and applicable traffic control standards and practices.
- Any signs, equipment, or devices found to be damaged or unserviceable shall be replaced at the Contractor's expense.
- Temporary lane closures will be required, with advanced approval, whenever work will occur within four feet of the I-95 traveled way. Temporary lane closures shall be removed if no work is occurring. See Special Provisions for more information.
- Lane closure requests shall be submitted by the Resident by Noon on the Thursday prior to the week of the proposed lane closures. The Contractor shall plan all lane closure requests accordingly.
- If the Contractor's approved traffic control plan requires a northbound lane closure for the EVR construction, the Contractor shall provide a traffic control plan that includes a lane closure on the Turnpike northbound mainline and the I-295 (Exit 103) on-ramp in accordance with the details in the MTA Traffic Control Plan details, Appendix C.
- In the event that lane closure(s) begin to cause back-ups in through traffic of more than five minutes, the Contractor shall deploy the additional signs as indicated in the single lane closure set-up details.
- Approach ends of temporary concrete barrier shall be placed outside of the highway clear zone (minimum 34 feet from the traveled way along I-95) or protected by temporary impact attenuators or with guardrail overlaps as approved by the Resident.
- Maximum spacing for channelizing devices (drums) shall be:  
80' on center along tangents  
40' on center along tapers
- Work Zone Speed Limits shall only be permitted when temporary lane closures are in place.












**ABBREVIATIONS FOR ALL WORK ZONE PLANS**

BWLL = BROKEN WHITE LANE LINE  
 SWEL = SOLID WHITE EDGE LINE  
 SYEL = SOLID YELLOW EDGE LINE

**MAINTENANCE OF TRAFFIC DETAILS**



CONSTRUCTION SIGN SUMMARY					
Sign	Text Dimensions (Inches)		Size	Quantity and Color	
	Letter Height	Vertical Spacing			
CS-3 	7" 7" 7"	4" 4"	48"x48"	4 - Black on Orange	
CS-10 	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x48"	1 - Black on Orange	
G20-2 			48"x24"	4 - Black on Orange	
G20-2 			36"x18"	2 - Black on Orange	
G20-5aP 			36"x24"	4 - Black on Orange	
R2-1(60) 			48"x60"	4 - Black on White	
R2-6aP 			36"x24"	4 - Black on White	
R2-12 			36"x54"	4 - Black on White	
W3-4 			48"x48"	4 - Black on Orange	
W3-5(60) 			48"x48"	4 - Black on Orange	
W4-2R 			48"x48"	4 - Black on Orange	
W7-3aP 			36"x30"	1 - Black on Orange	

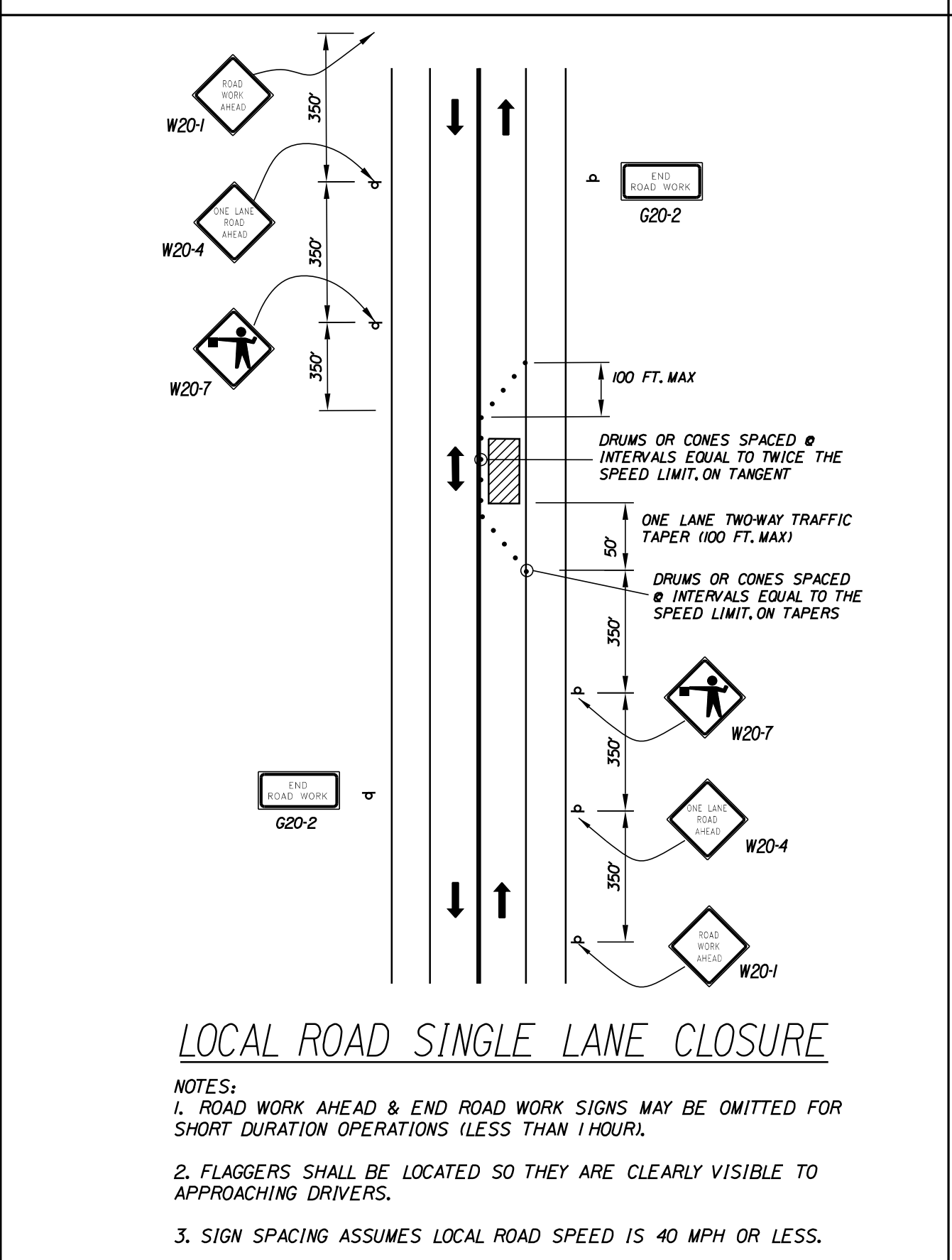
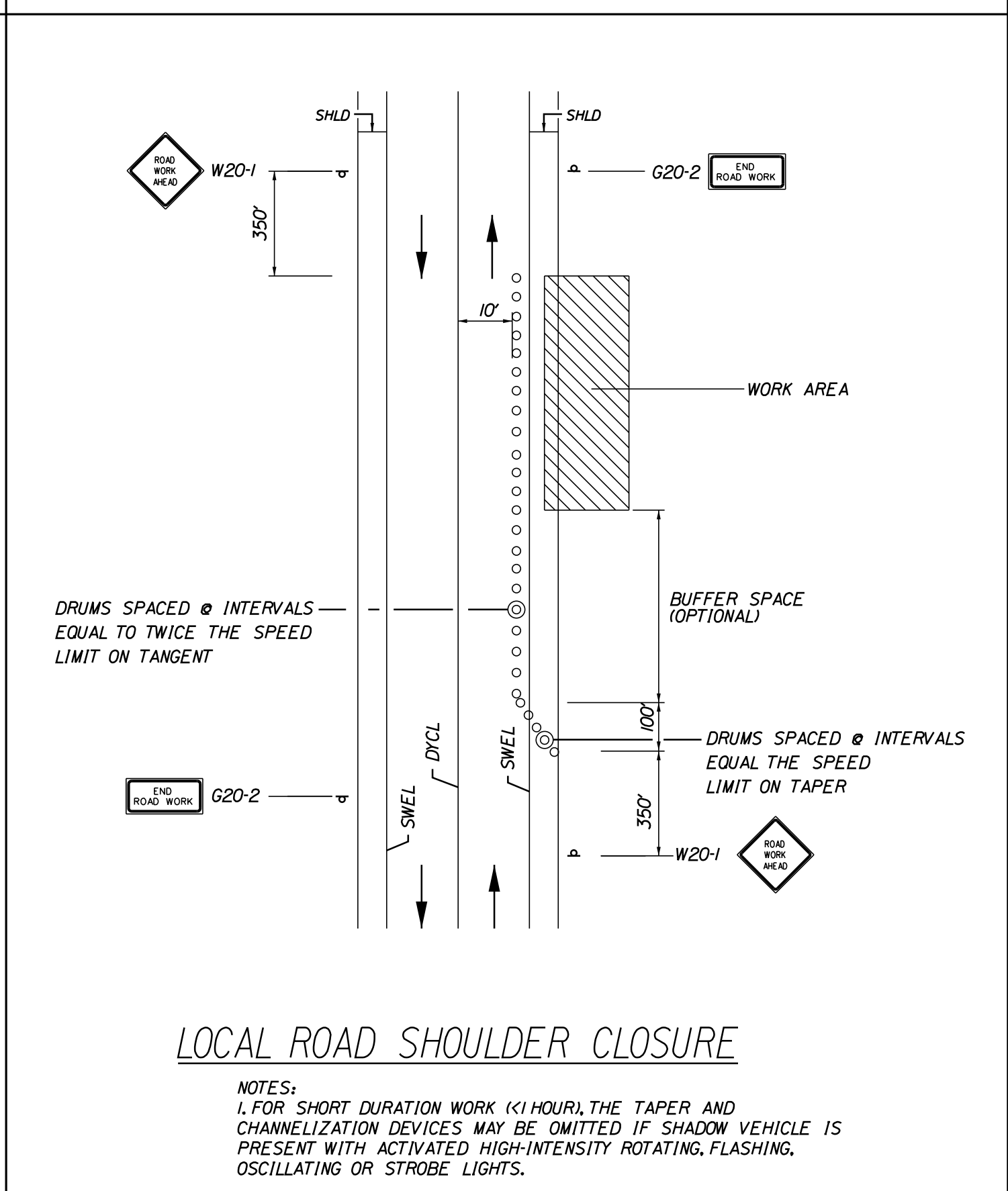
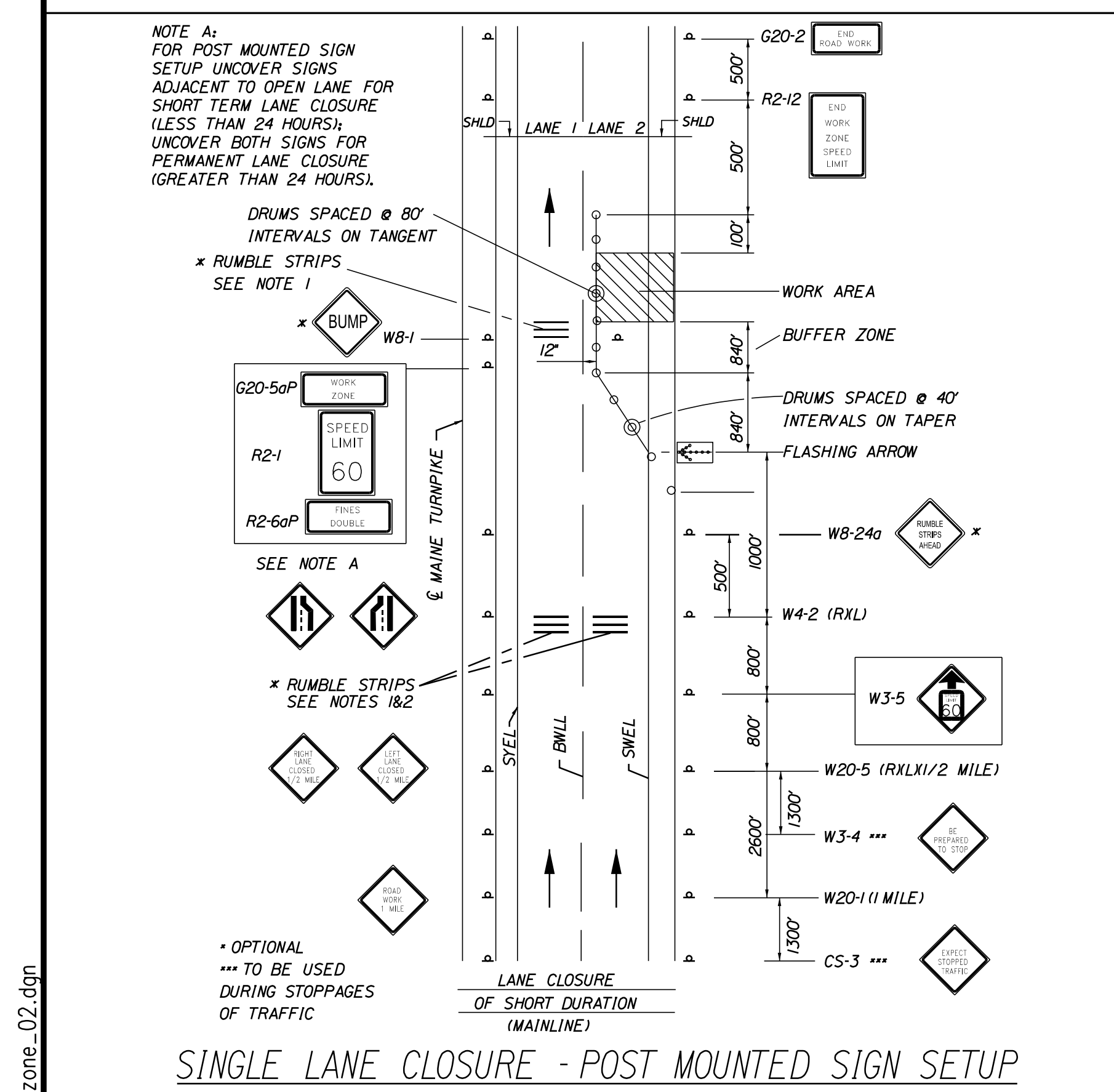
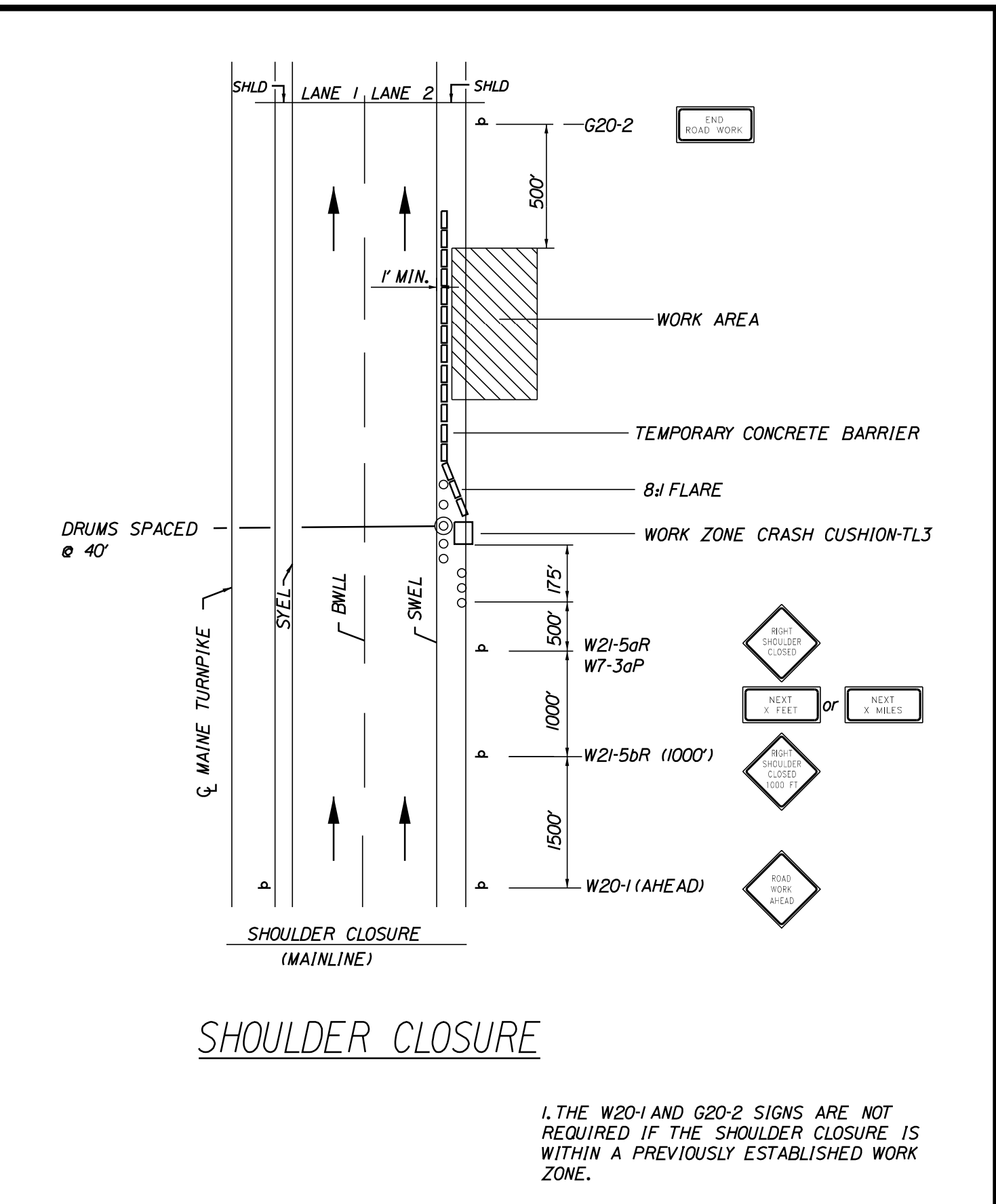
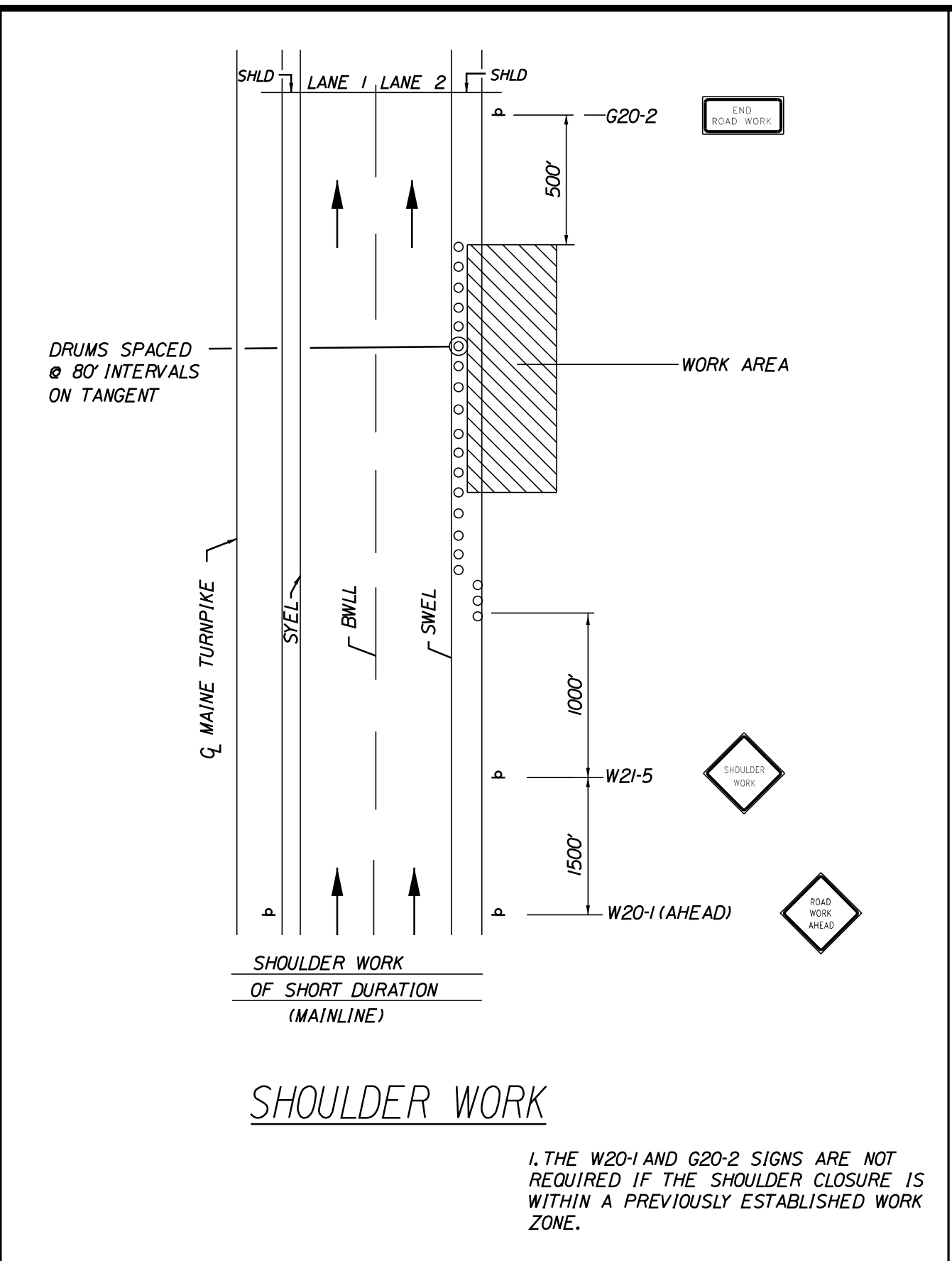
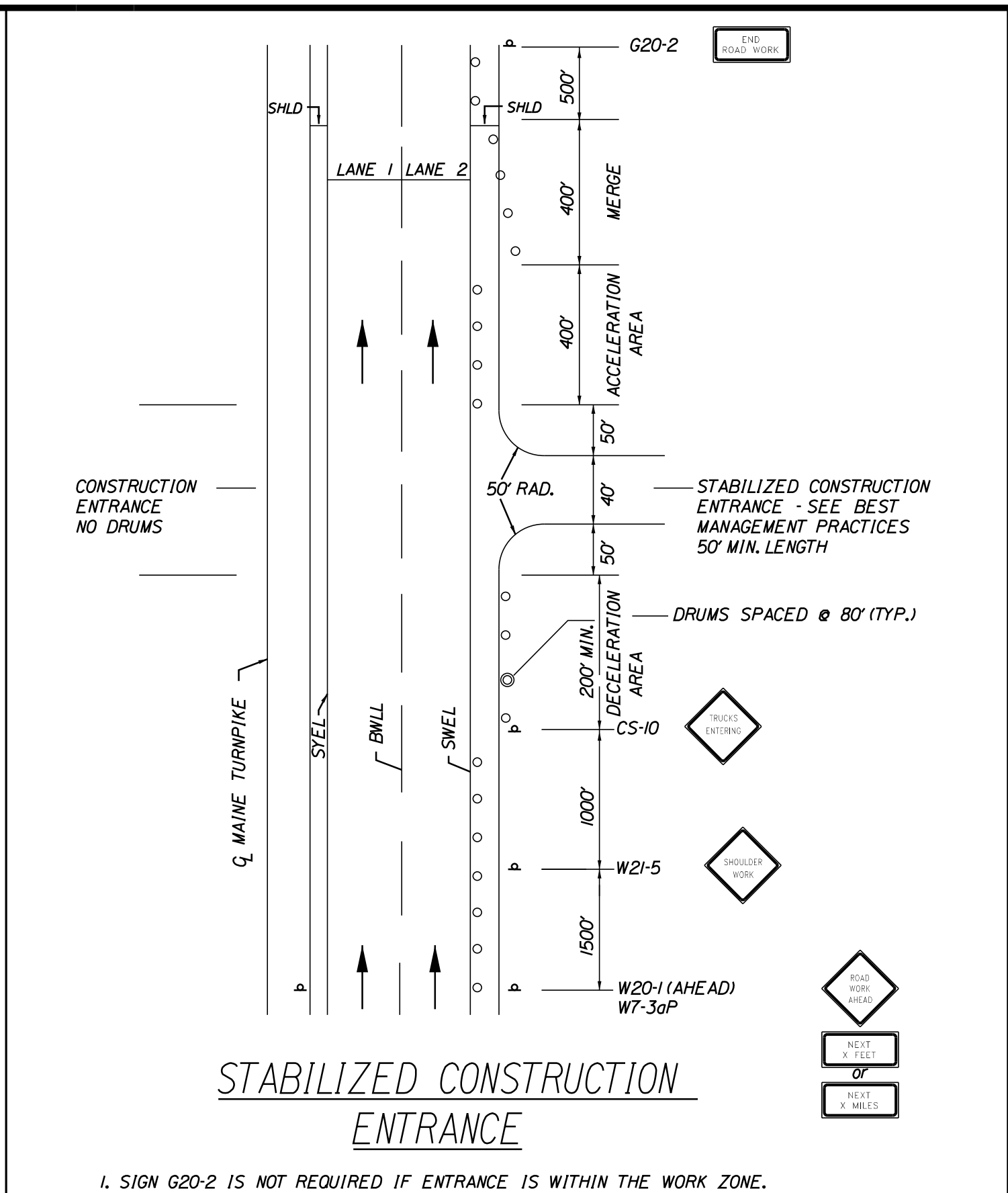
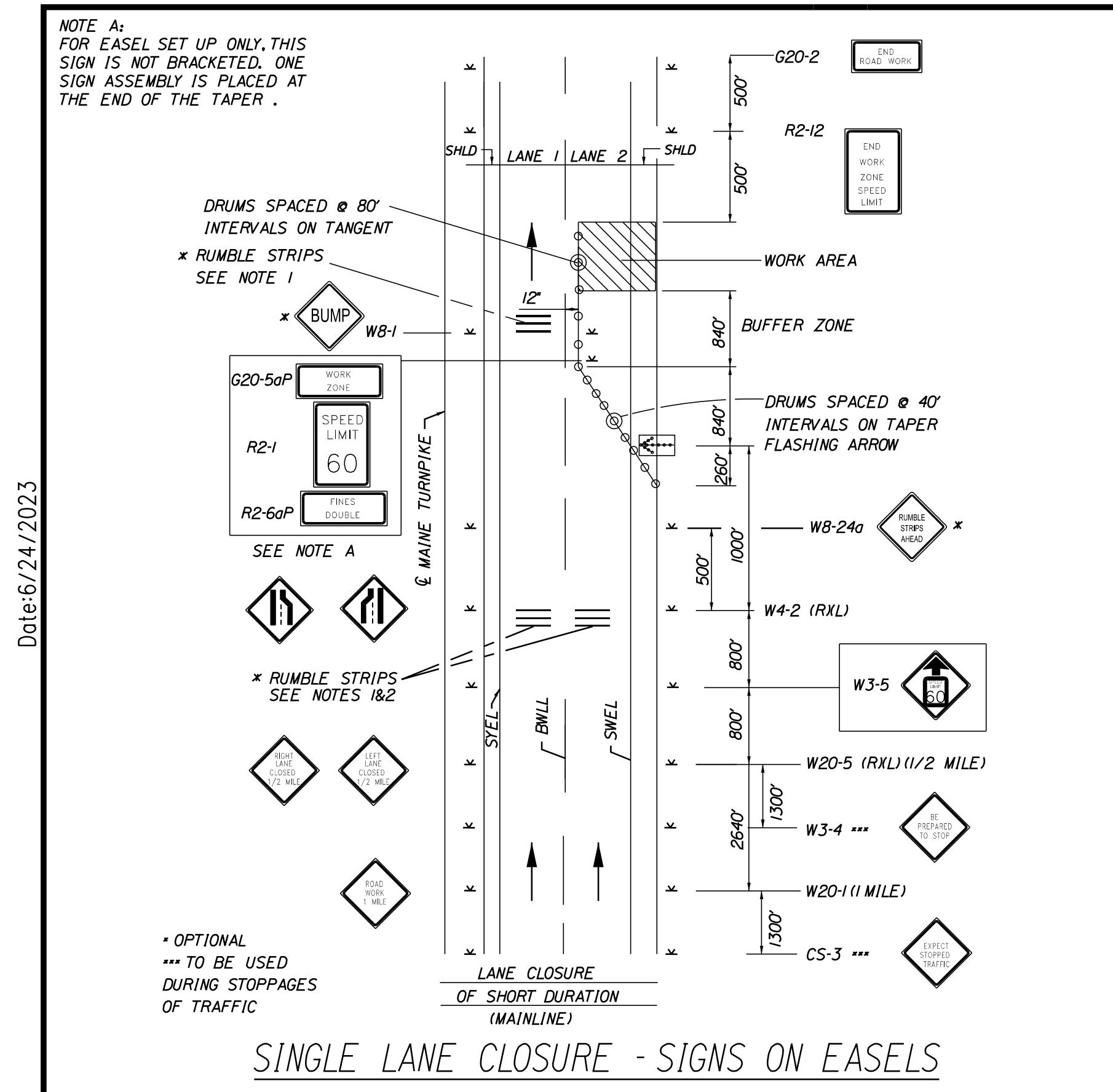
**MAINTENANCE OF TRAFFIC DETAILS**

CONSTRUCTION SIGN SUMMARY					
Sign	Text Dimensions (Inches)		Size	Quantity and Color	
	Letter Height	Vertical Spacing			
W8-1 	Text Dimensions Shall Conform to "Standard Highway Signs" - 2012		48"x48"	4 - Black on Orange	
W8-24a 			48"x48"	4 - Black on Orange	
W20-1 			48"x48"	4 - Black on Orange	
W20-1 (AHEAD) 			48"x48"	2 - Black on Orange	
W20-1 (AHEAD) 			36"x36"	2 - Black on Orange	
W20-4 			36"x36"	2 - Black on Orange	
W20-5R 			48"x48"	4 - Black on Orange	
W20-7 			36"x36"	2 - Black on Orange	
W21-5 			48"x48"	1 - Black on Orange	
W21-5aR 			48"x48"	2 - Black on Orange	
W21-5bR 			48"x48"	2 - Black on Orange	

Date: 6/24/2023

Filename: ...MSTA\004\_workzone\_01.dgn

Scale: NOT TO SCALE		Designed by:				VANASSE HANGEN BRUSTLIN, INC. 500 Southborough Dr. Suite 105B South Portland, ME 04106 TEL (207) 889-3150 FAX (207) 253-5596				HIGH STREET EMERGENCY VEHICLE RAMP MAINTENANCE OF TRAFFIC DETAILS (1 OF 2)																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Revision	By	Date					CONSULTANT PROJECT MANAGER: E. Flynn		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>MLG 6/21/23</td> <td>Checked</td> <td>MDS 6/21/23</td> </tr> <tr> <td>Drawn</td> <td>JAR 6/21/23</td> <td>In Charge of</td> <td>TSB 6/21/23</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	MLG 6/21/23	Checked	MDS 6/21/23	Drawn	JAR 6/21/23	In Charge of	TSB 6/21/23	THE GOLD STAR MEMORIAL HIGHWAY		VHB: 55639.00 CONTRACT: 2023.04		SHEET NUMBER: <b>4</b> 4 OF 31	
No.	Revision	By	Date																												
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Drawn	JAR 6/21/23	In Charge of	TSB 6/21/23																												
				MTA PROJECT MANAGER: Ryan Barnes, PE																											



- GENERAL MAINTENANCE OF TRAFFIC NOTES:**
- 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.
  - THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL DURING CONSTRUCTION. SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
  - THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING PAVEMENT MARKINGS.
  - EXPOSED BARRIER ENDS ON THE MAINE TURNPIKE SHALL BE PROTECTED BY A WORK ZONE CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341 - WORK ZONE CRASH CUSHION - TL-3.
  - SPEED LIMIT, STOP, YIELD AND EXIT SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT.
  - WORK ZONE SPEED LIMIT ASSEMBLY MAY BE REPLACED WITH AN AUTOMATED WORK ZONE SPEED LIMIT SIGN (ITEM 652.451)
- ABBREVIATIONS FOR ALL M.O.T. PLANS:**
- BWLL = BROKEN WHITE LANE LINE  
 SWEL = SOLID WHITE LANE LINE  
 SYEL = SOLID YELLOW LANE LINE  
 TBWLL = TEMPORARY BROKEN WHITE LANE LINE  
 TDWEL = TEMPORARY DOTTED WHITE EDGE LINE  
 TSWEL = TEMPORARY SOLID WHITE LANE LINE  
 TSWLL = TEMPORARY SOLID WHITE LANE LINE  
 TSYCL = TEMPORARY SOLID YELLOW CENTER LINE
- TEMPORARY RUMBLE STRIP NOTES:**
- IF RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:  
 • ADJACENT TO THE WORK ZONE (1 UNIT)  
 • UPSTREAM FROM THE TAPER FOR THE WORKZONE (2 UNITS)  
 • BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)  
 W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION. ONLY ONE SET OF W8-24a SIGNS ARE REQUIRED FOR ANY OF THE ABOVE CONFIGURATIONS.
  - 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.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

CONSULTANT PROJECT MANAGER: E. Flynn			
Designed	MLG	6/21/23	Checked
Drawn	JAR	6/21/23	In Charge of

VANASSE HANGEN BRUSTLIN, INC.  
 500 Southborough Dr.  
 Suite 105B  
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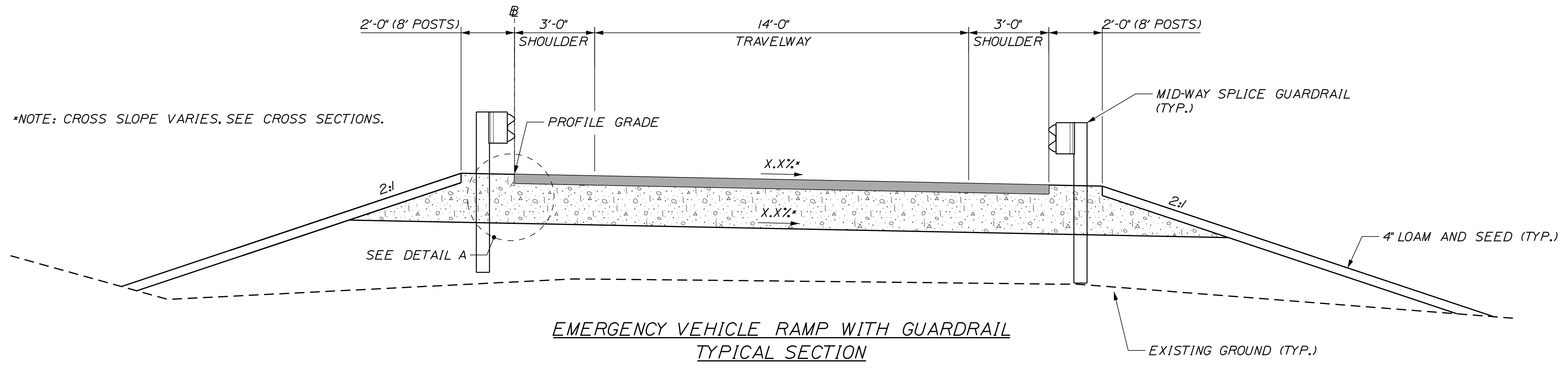
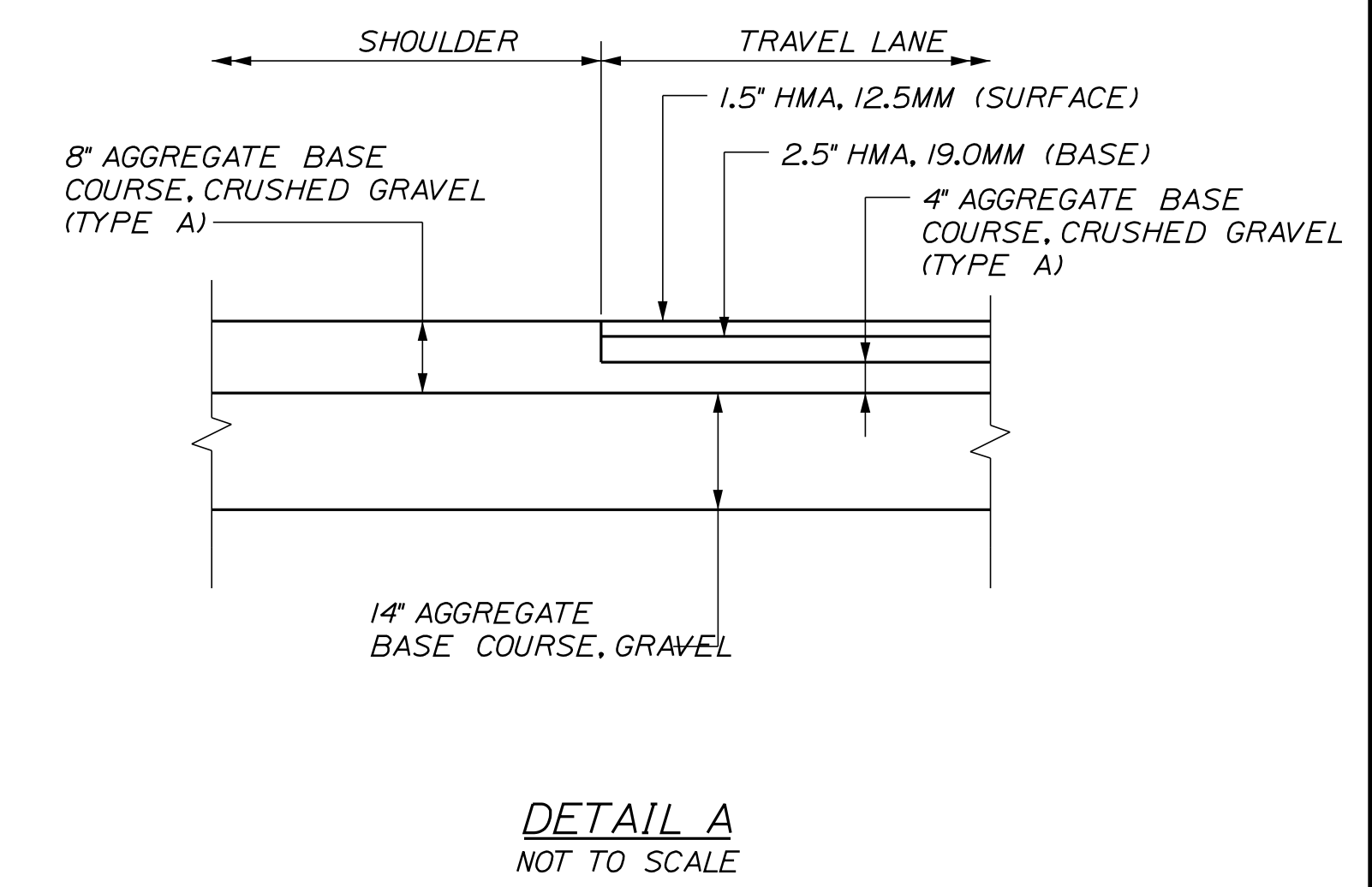
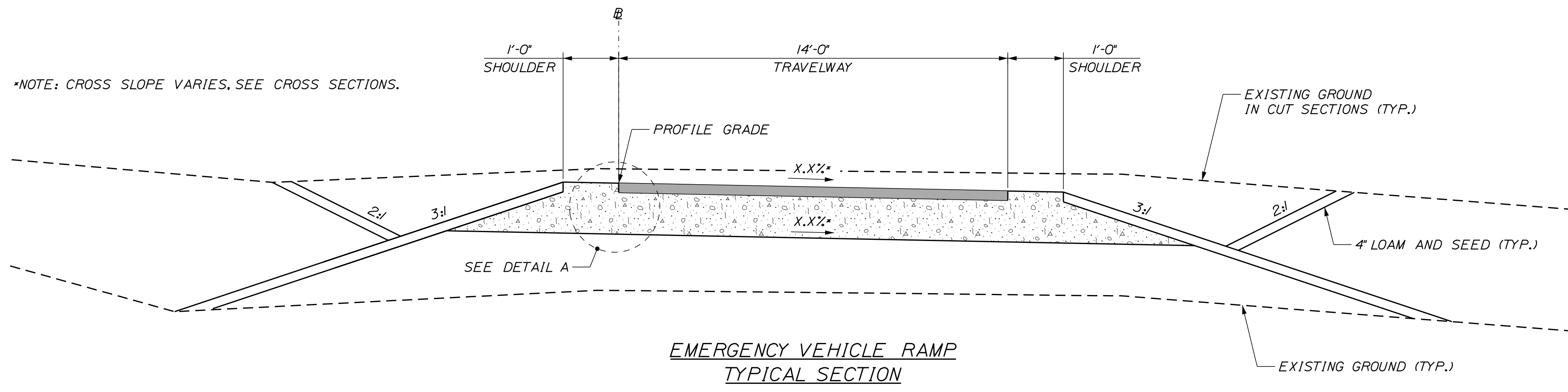
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

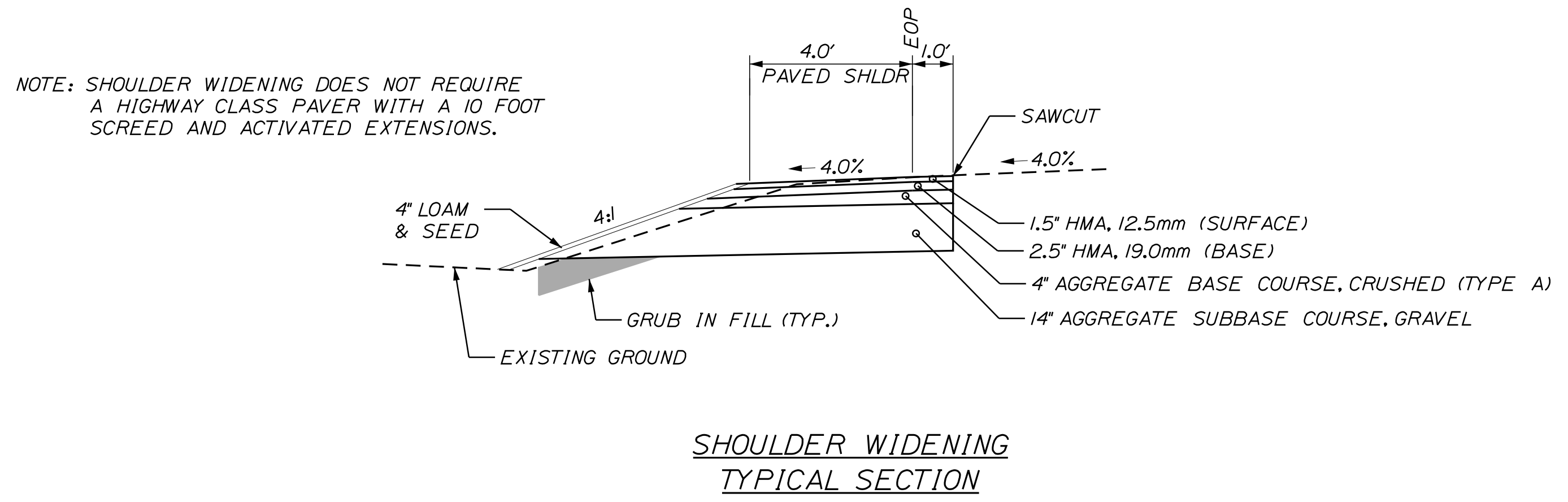
Date: 6/24/2023  
 Filename: ...MSTA005\_workzone\_02.dgn

Date: 6/24/2023

Filename: ...MSTA\006\_Typical\_01.dgn




- TYPICAL ACCESS ROAD SECTION NOTES**
1. THE PAVEMENT, BASE, AND SUBBASE DEPTHS AS SHOWN ON PLANS ARE INTENDED TO BE NOMINAL.
  2. ALL NECESSARY PAVEMENT CUTTING SHALL BE SAWCUT AND DONE IN SUCH A MANNER AS TO LEAVE A CLEAN VERTICAL FACE. PAYMENT SHALL BE UNDER ITEM 419.3 - SAWING BITUMINOUS PAVEMENT.
  3. BITUMINOUS TACK COAT IS REQUIRED BETWEEN ALL LIFTS OF PAVEMENT, OR AS DIRECTED BY THE RESIDENT.



Scale: NOT TO SCALE

No.	Revision	By	Date


Designed by:



CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date	Checked	By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 TYPICAL ROADWAY SECTIONS

VHB: 55639.00 | SHEET NUMBER: 6  
 CONTRACT: 2023.04 | 6 OF 31

Date: 6/24/2023

Filename: ...\\007\_Details\_01\_Drainage.dgn

**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	0.50	0.43
15"	1.00	4.50	3.37	2.25	6.75	1.63	0.50	0.57
18"	1.00	5.00	3.75	2.50	7.50	2.25	0.50	0.70
24"	1.00	6.00	4.50	3.00	9.00	3.50	0.50	1.04
30"	1.00	7.00	5.25	3.50	10.50	4.75	0.50	1.44

**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	0.50	0.73
15"	1.00	9.00	6.75	2.25	6.75	0.00	0.50	0.93
18"	1.00	10.00	7.50	2.50	7.50	0.00	0.50	1.13
24"	1.00	12.00	9.00	3.00	9.00	0.00	0.50	1.62
30"	1.00	14.00	10.50	3.50	10.50	0.00	0.50	2.19

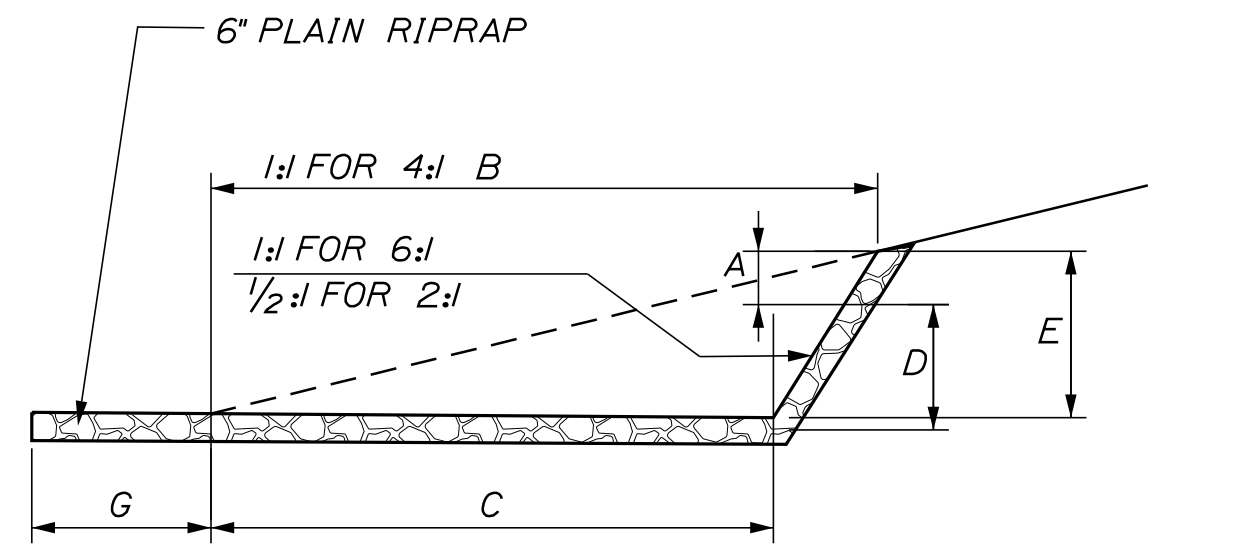
**DIMENSIONS FOR SLOPE OF 6:1**

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	0.50	0.77
15"	0.50	10.50	8.75	1.75	5.50	0.00	0.50	0.98
18"	0.50	12.00	10.00	2.00	6.50	0.00	0.50	1.19
24"	0.50	15.00	12.50	2.50	8.00	0.00	0.50	1.81
30"	0.50	18.00	15.00	3.00	9.50	0.00	0.50	2.57

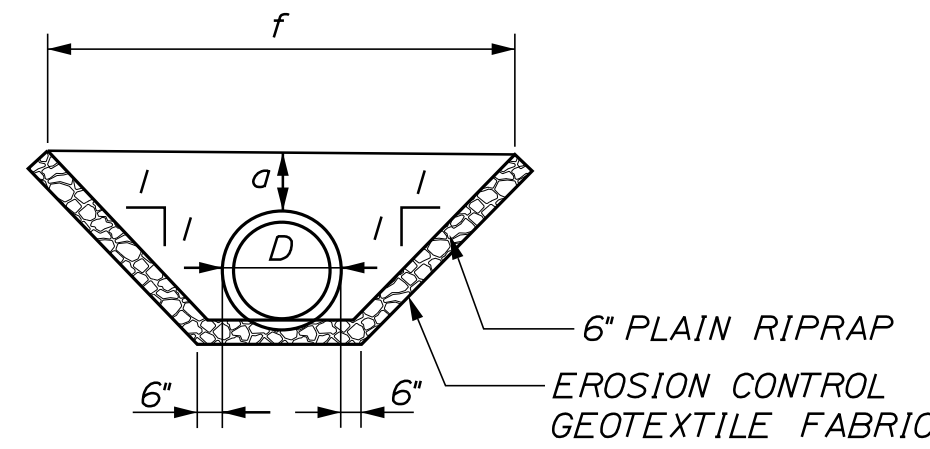
**NOTES:**

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

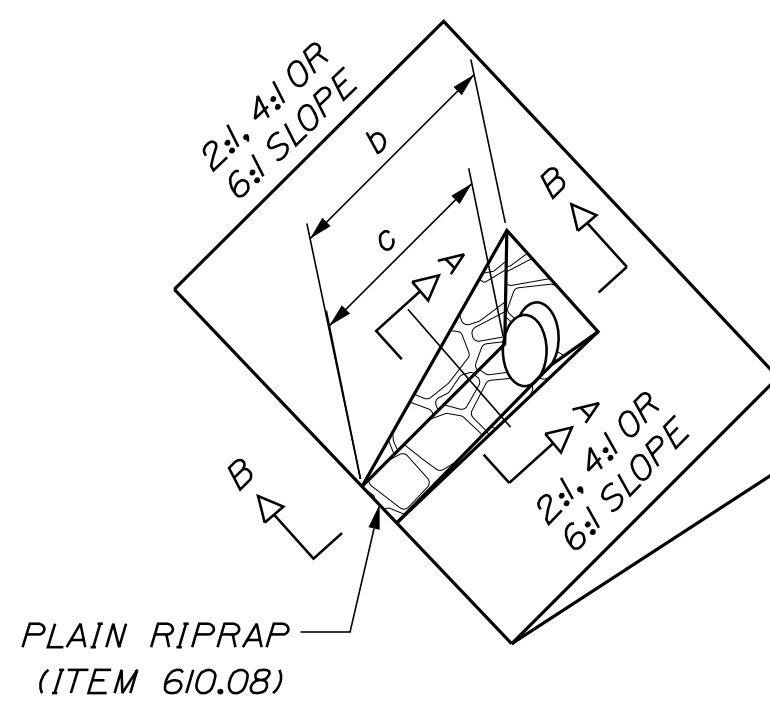
**ROADWAY CULVERT END SLOPE TREATMENT**  
NOT TO SCALE



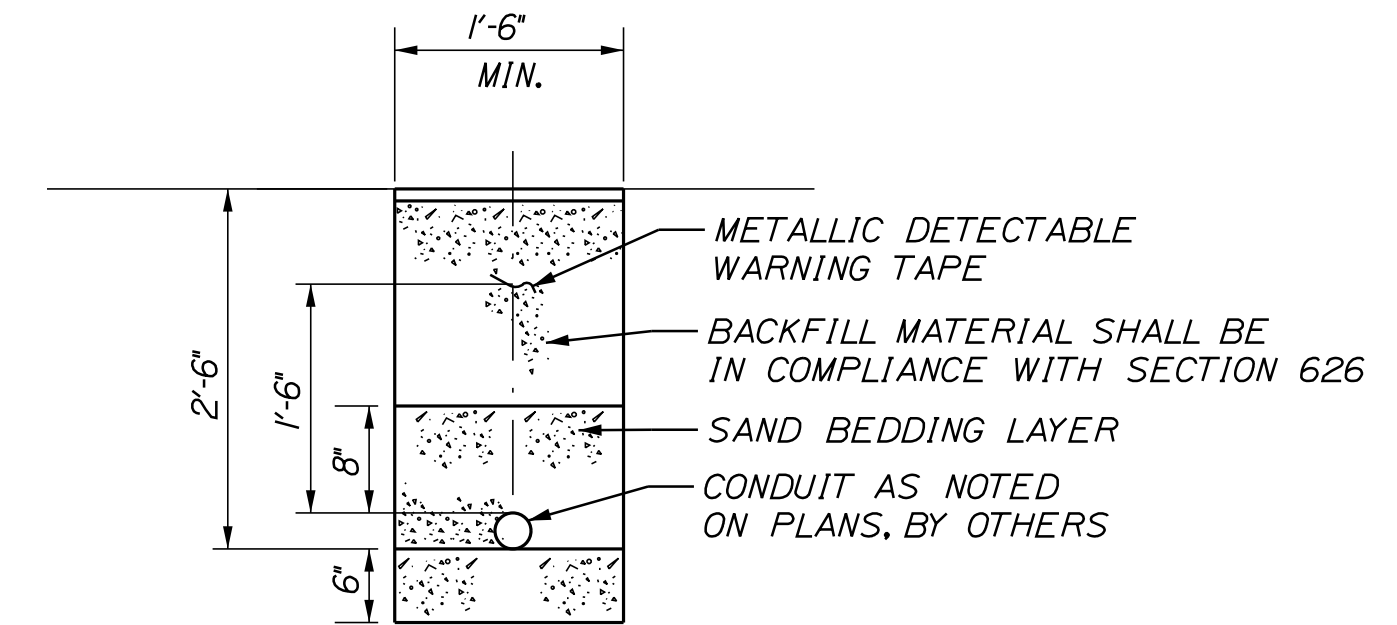
**SECTION B-B**



**SECTION A-A**



SIGN SUMMARY				
Sign	Text Dimensions (Inches)		Size	Quantity and Color
	Letter Height	Vertical Spacing		
R1-1		Text Dimensions Shall Conform to "Standard Highway Signs" - 2012	36"x36"	4 - WHITE ON RED
R5-11			30"x24"	6 - BLACK ON WHITE
R6-1R			36"x12"	2 - BLACK ON WHITE



**TRENCH CROSS SECTION**  
NOT TO SCALE

No.	Revision	By	Date

Designed by:					
CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

VANASSE HANGEN BRUSTLIN, INC.  
500 Southborough Dr.  
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TEL (207) 889-3150  
FAX (207) 253-5596

**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

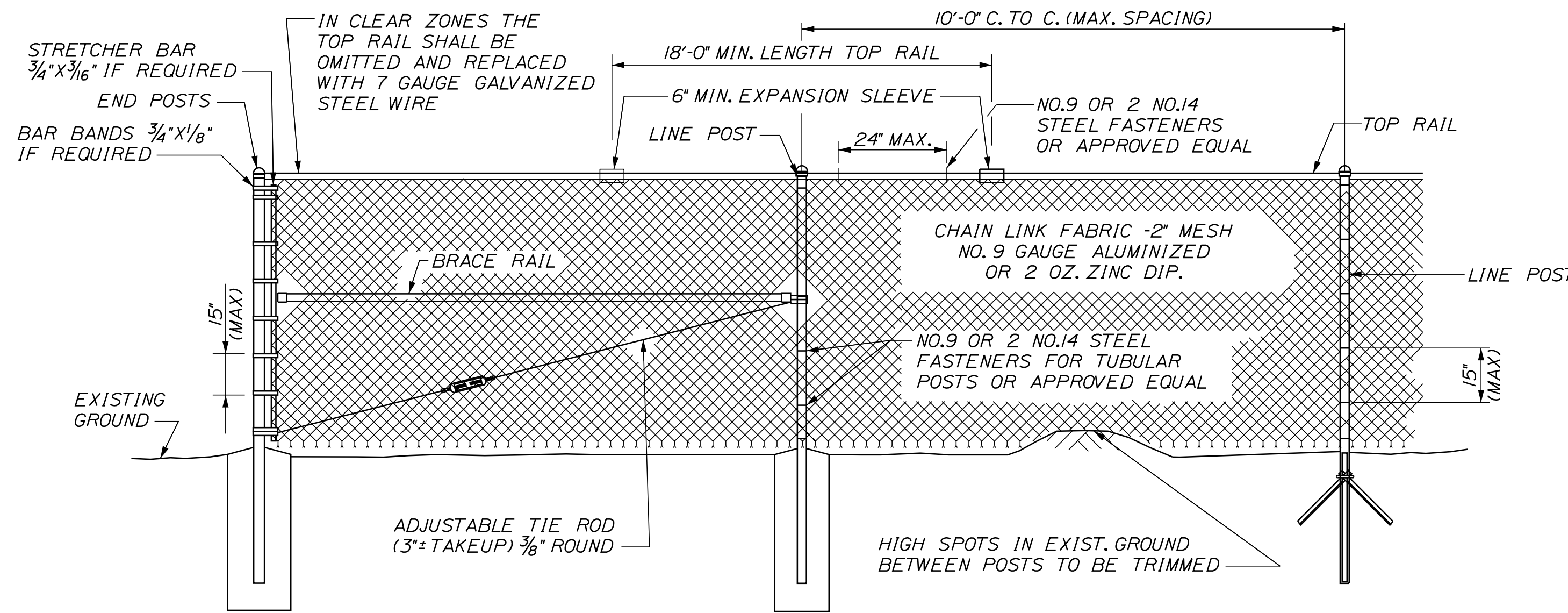
**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
DETAILS (1 OF 2)**

VHB: 55639.00	SHEET NUMBER: 7
CONTRACT: 2023.04	7 OF 31

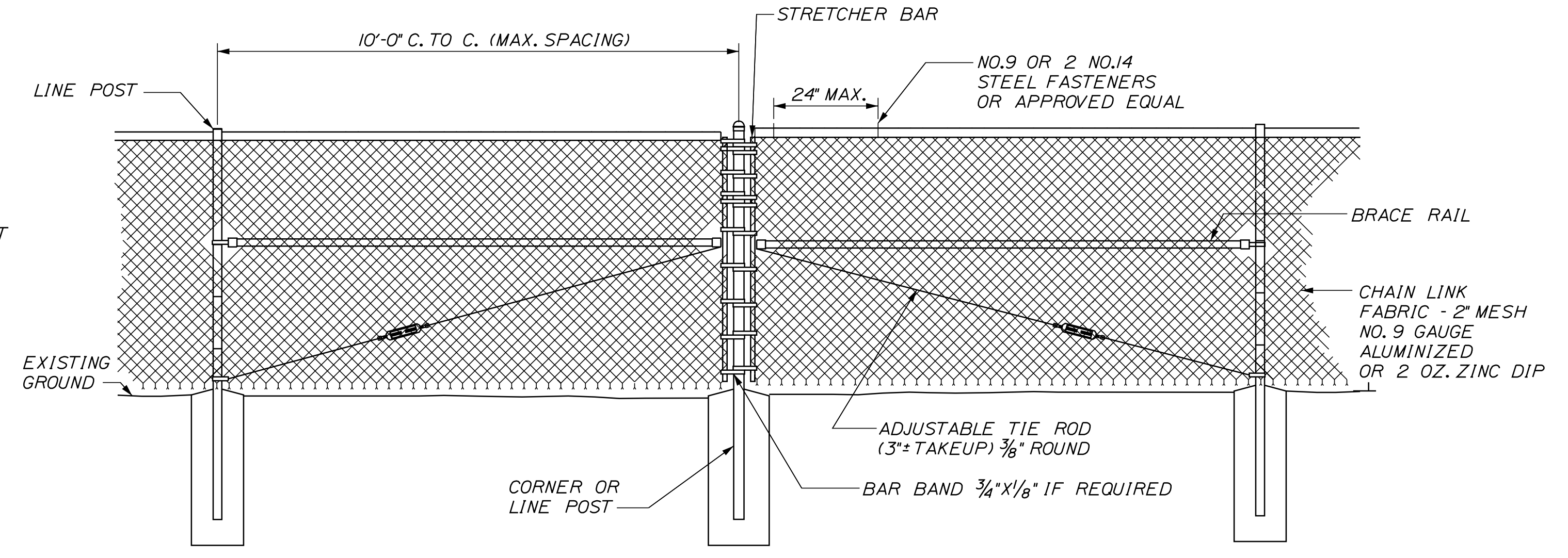




Date: 6/24/2023

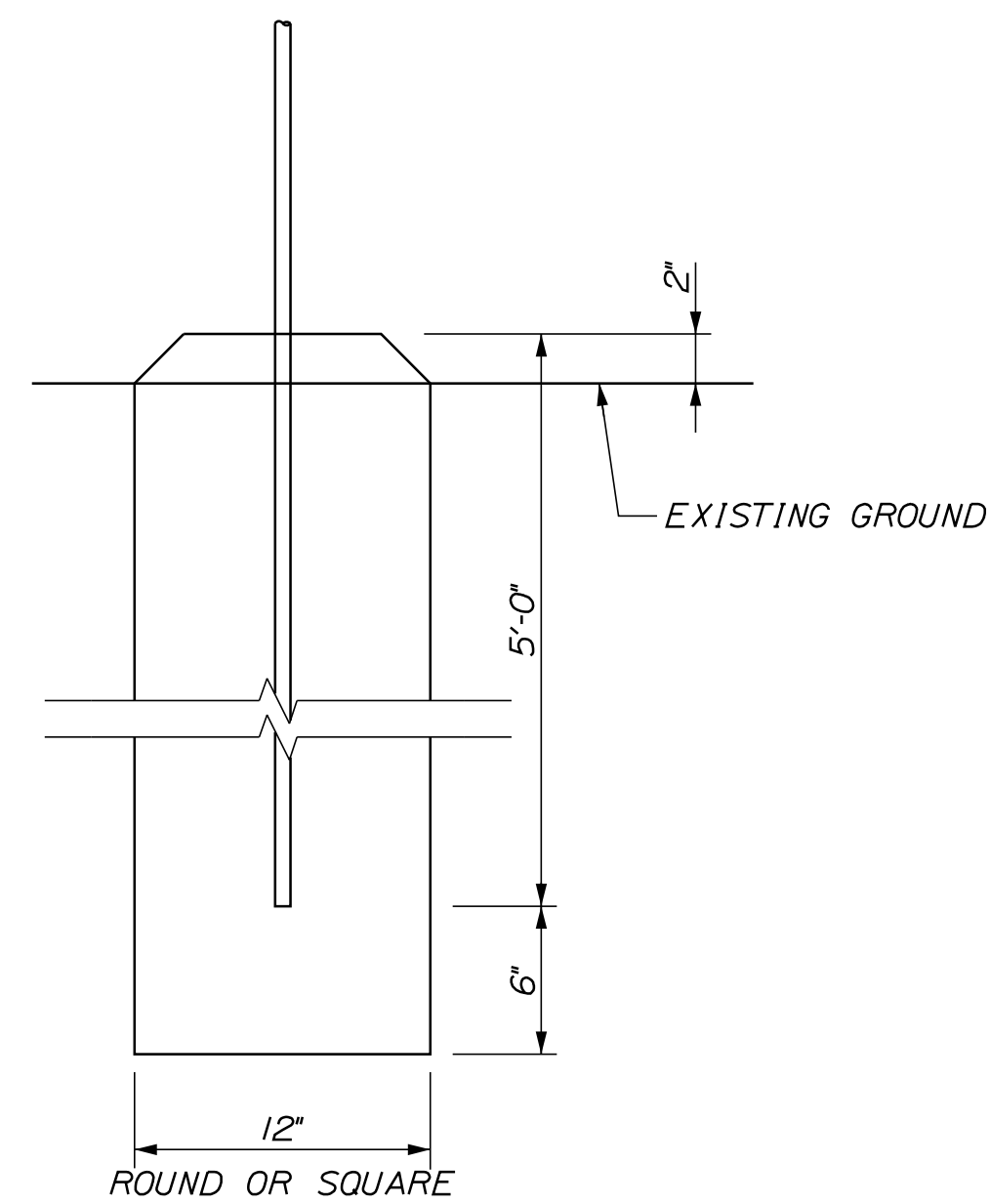


**TYPICAL TYPE I END PANEL**  
N.T.S.

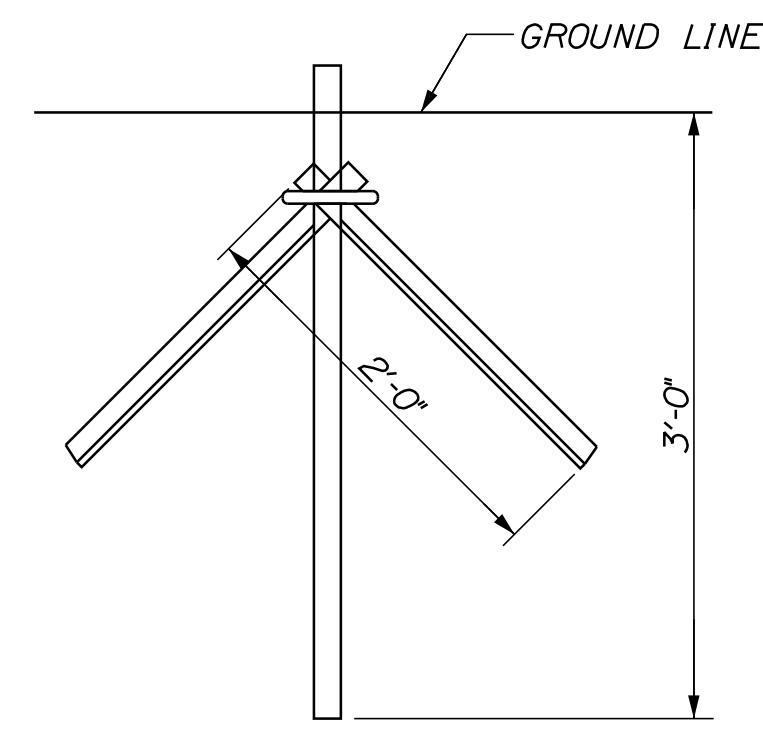


**TYPICAL TYPE II BRACE PANEL**  
N.T.S.

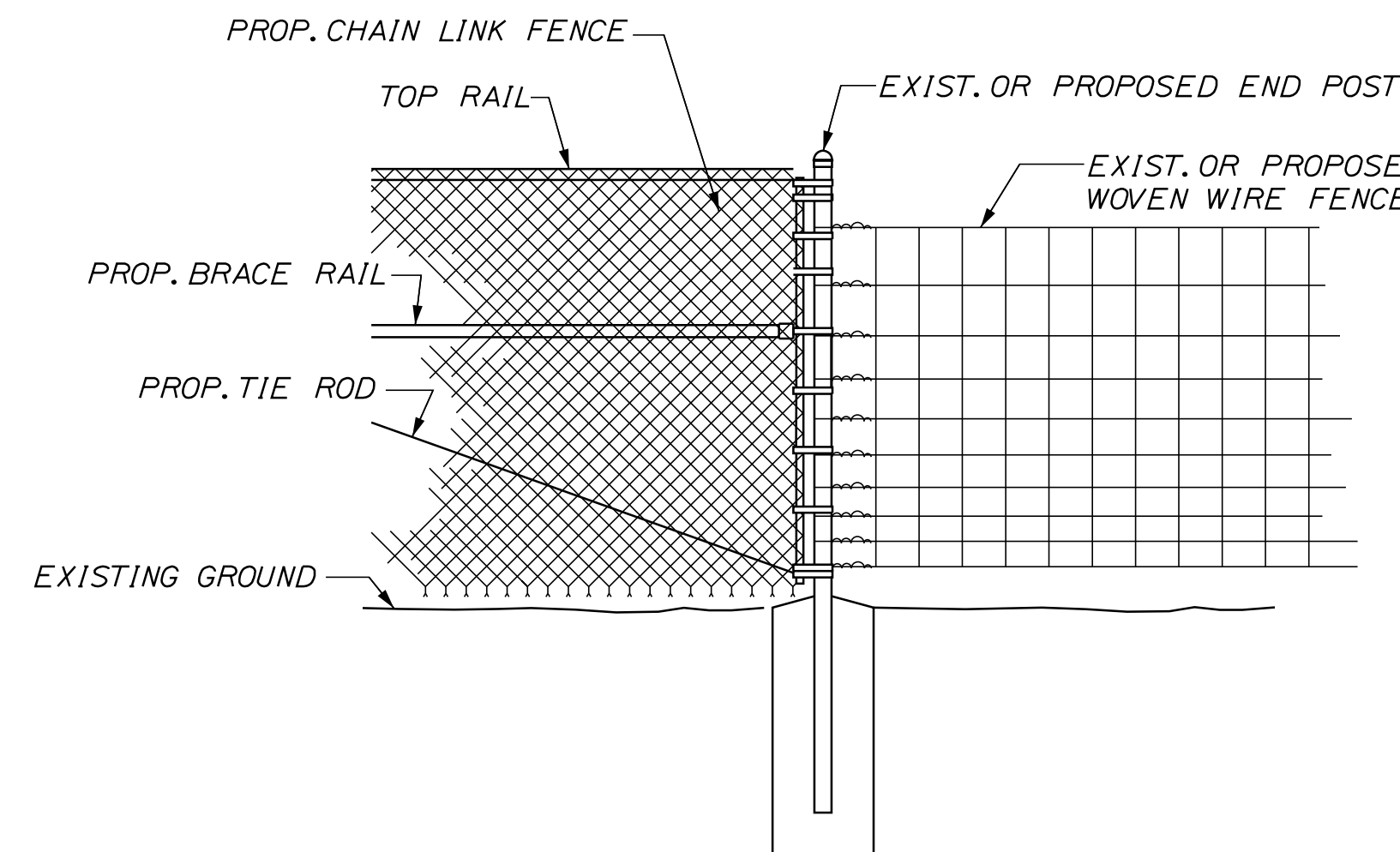
**TYPICAL INTERMEDIATE PANEL**  
N.T.S.



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



**LINE POST DRIVE ANCHOR DETAIL**  
N.T.S.



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

BENDING MOMENTS BASED ON GRADE 1 (SCHEDULE 40 STEEL)

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

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

**NOTES**


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

Filename: ...MSTA\009\_Details\_03\_Fence.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

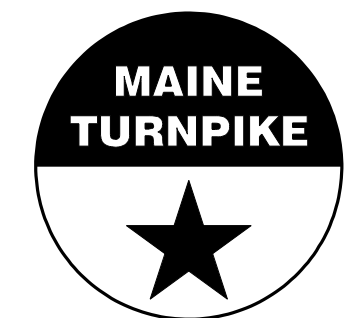
Designed by:



CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date	Checked	By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

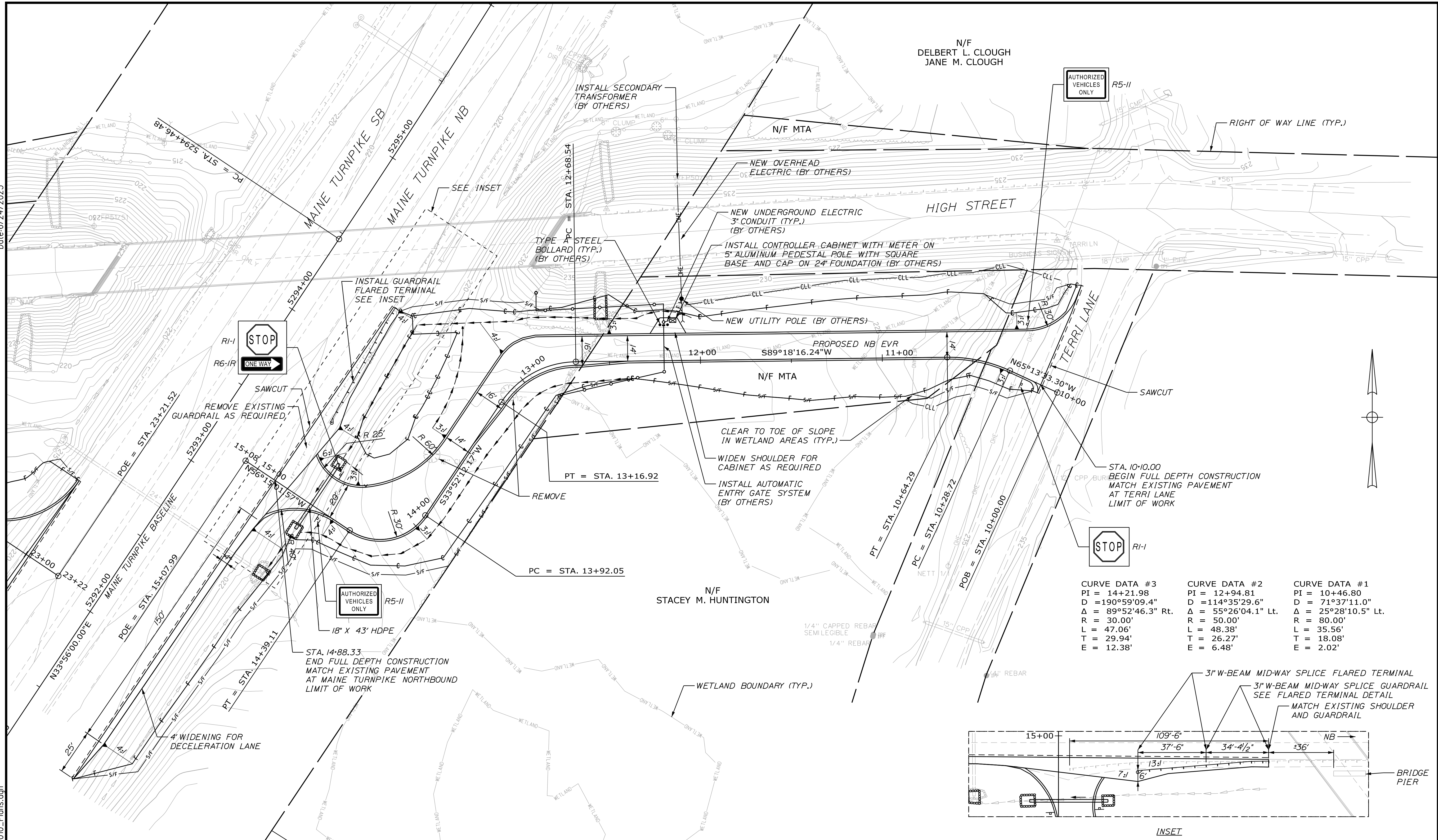
**HIGH STREET EMERGENCY VEHICLE RAMPS FENCING DETAILS**

VHB: 55639.00  
CONTRACT: 2023.04

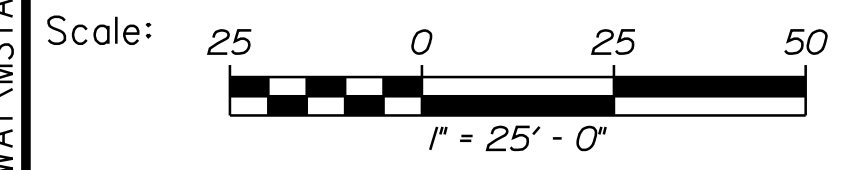
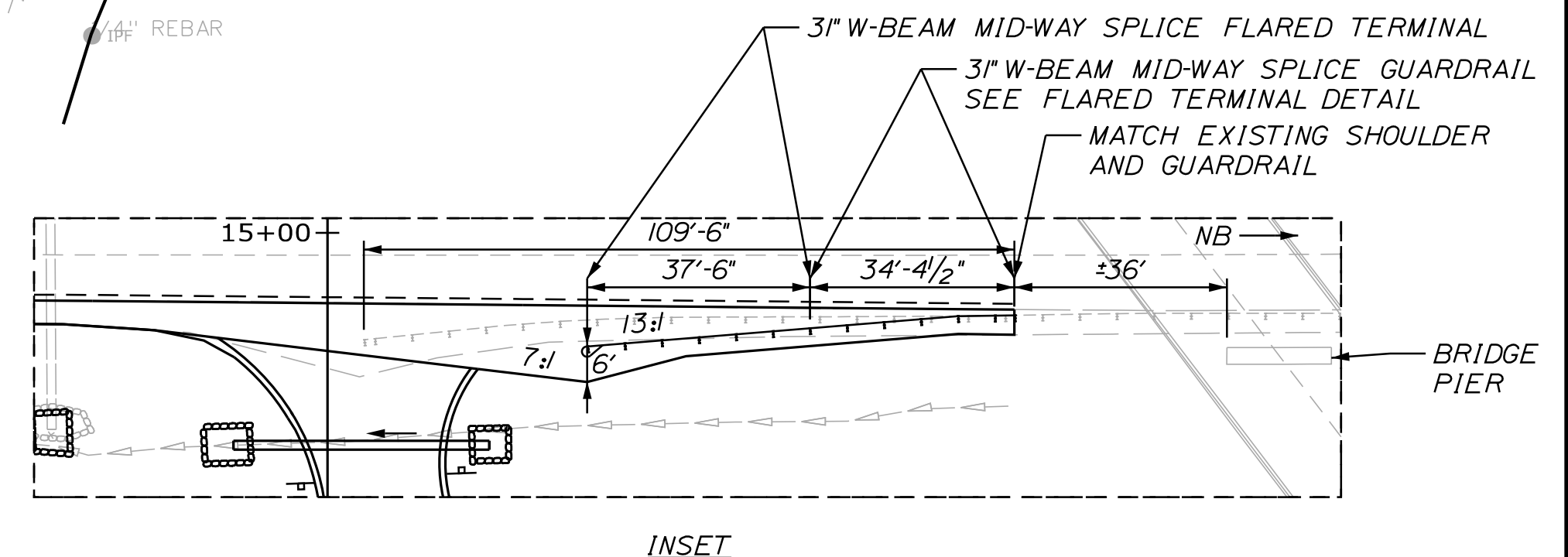
SHEET NUMBER: 9  
9 OF 31

Date: 6/24/2023


Filename: ...HIGHWAY.MST\010\_Plans.dgn



CURVE DATA #3	CURVE DATA #2	CURVE DATA #1
PI = 14+21.98	PI = 12+94.81	PI = 10+46.80
D = 190°59'09.4"	D = 114°35'29.6"	D = 71°37'11.0"
Δ = 89°52'46.3" Rt.	Δ = 55°26'04.1" Lt.	Δ = 25°28'10.5" Lt.
R = 30.00'	R = 50.00'	R = 80.00'
L = 47.06'	L = 48.38'	L = 35.56'
T = 29.94'	T = 26.27'	T = 18.08'
E = 12.38'	E = 6.48'	E = 2.02'



Designed by:

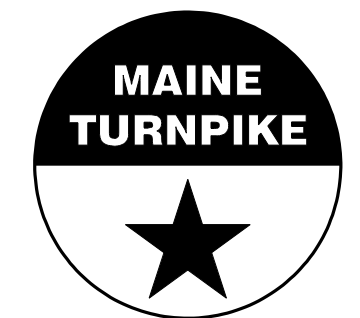


No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
GENERAL PLAN - NORTHBOUND**

VHB: 55639.00  
 CONTRACT: 2023.04

SHEET NUMBER: 10  
 10 OF 31

N/F DELBERT L. CLOUGH  
JANE M. CLOUGH

N/F MTA

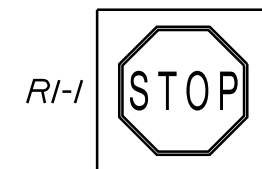
N/F STACEY M. HUNTINGTON

CURVE DATA #1  
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 D = 143°14'22.0"  
 Δ = 87°58'36.6" Lt.  
 R = 40.00'  
 L = 61.42'  
 T = 38.61'  
 E = 15.60'

CURVE DATA #2  
 PI = 21+77.97  
 D = 47°44'47.3"  
 Δ = 35°47'39.0" Rt.  
 R = 120.00'  
 L = 74.97'  
 T = 38.75'  
 E = 6.10'

N/F  
 RICHARD I. RUSSELL  
 TRUSTEE OF THE RICHARD I. RUSSELL  
 LIVING TRUST

R5-II  
 AUTHORIZED  
 VEHICLES  
 ONLY



STA. 20+12.27  
 BEGIN FULL DEPTH CONSTRUCTION  
 MATCH EXISTING PAVEMENT  
 AT HIGH STREET  
 LIMIT OF WORK

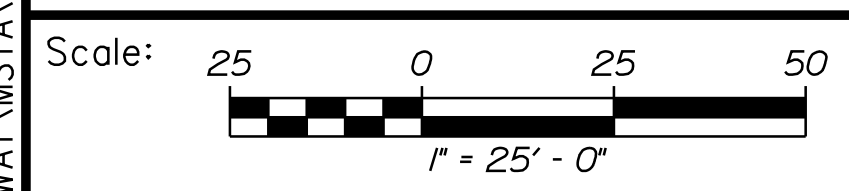
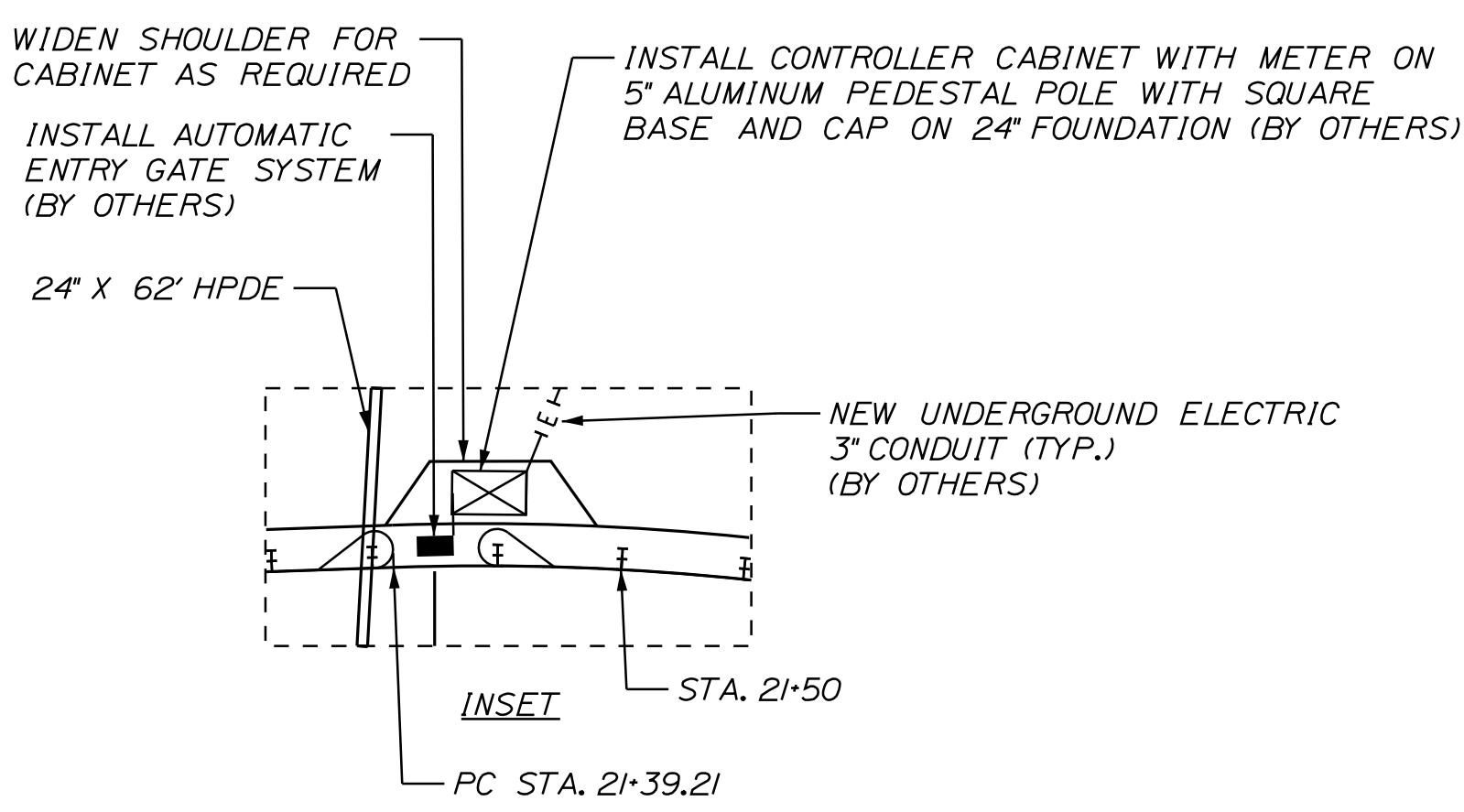
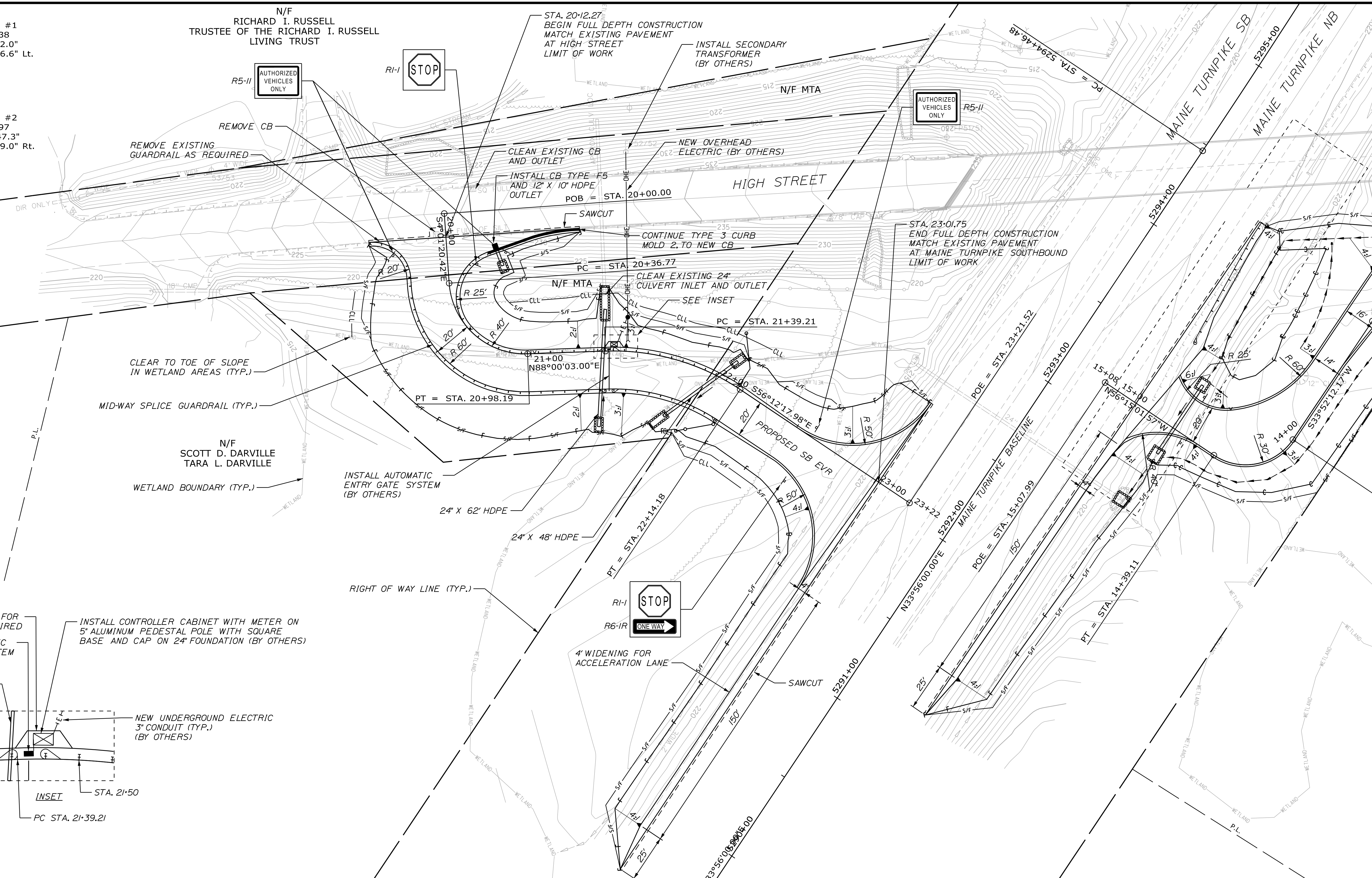
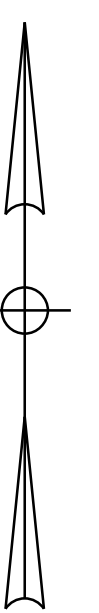
INSTALL SECONDARY  
 TRANSFORMER  
 (BY OTHERS)

R5-II  
 AUTHORIZED  
 VEHICLES  
 ONLY


STA. 23+01.75  
 END FULL DEPTH CONSTRUCTION  
 MATCH EXISTING PAVEMENT  
 AT MAINE TURNPIKE SOUTHBOUND  
 LIMIT OF WORK

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\010\_Plans.dgn



Designed by:

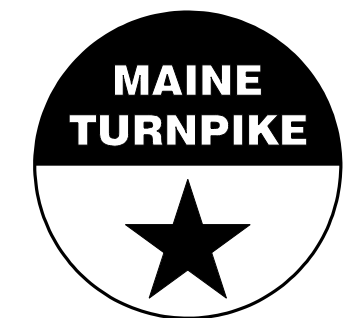


No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

VANASSE HANGEN BRUSTLIN, INC.  
 500 Southborough Dr.  
 Suite 105B  
 South Portland, ME 04106  
 TEL (207) 889-3150  
 FAX (207) 253-5596



**THE GOLD STAR  
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

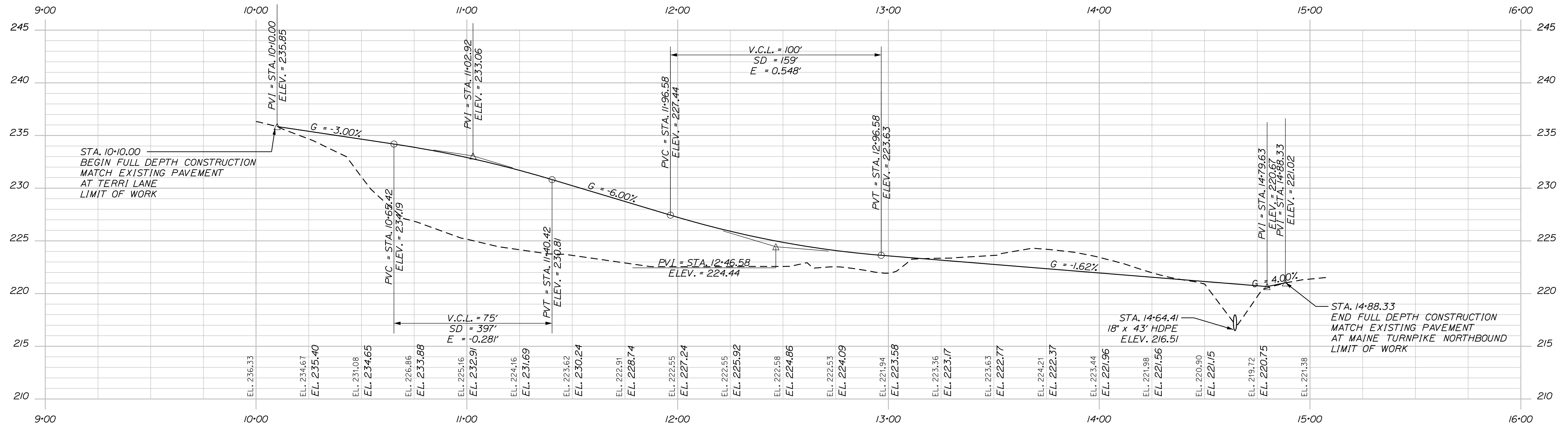
**HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 GENERAL PLAN - SOUTHBOUND**

VHB: 55639.00  
 CONTRACT: 2023.04

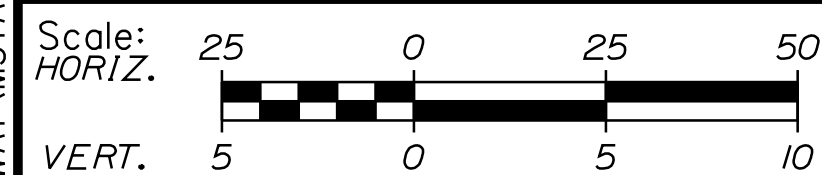
SHEET NUMBER: 11  
 11 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\020\_Pro files.dgn



NB EVR PROFILE



Designed by:



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THE GOLD STAR  
 MEMORIAL HIGHWAY

HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 PROFILE - NORTHBOUND

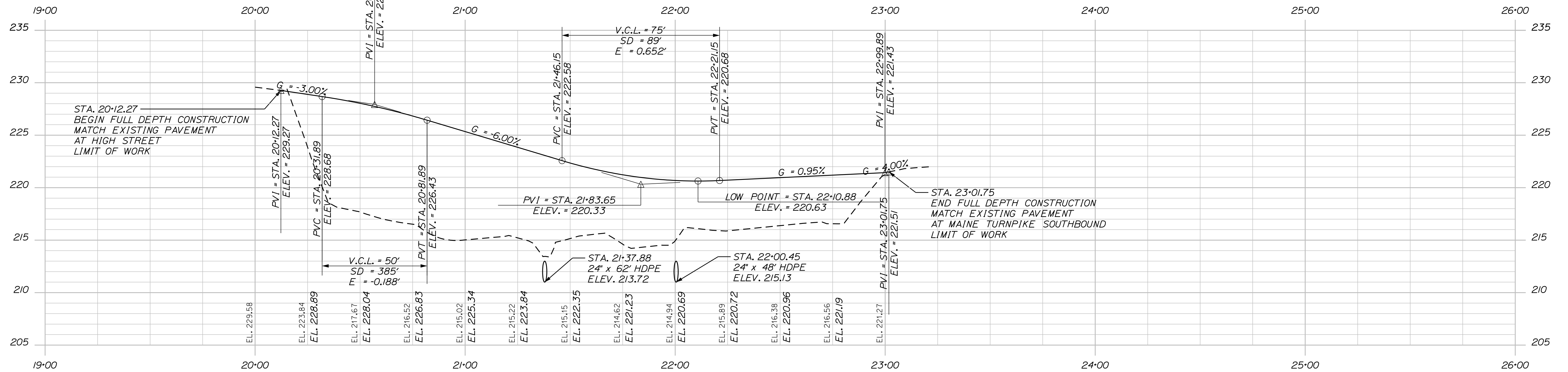
No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date	Checked	By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

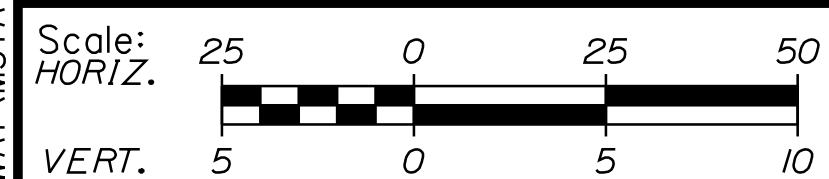
MTA PROJECT MANAGER: Ryan Barnes, PE

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\020\_Profiles.dgn



SB EVR PROFILE



Designed by:



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500 Southborough Dr.  
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THE GOLD STAR  
MEMORIAL HIGHWAY

HIGH STREET  
EMERGENCY VEHICLE RAMPS  
PROFILE - SOUTHBOUND

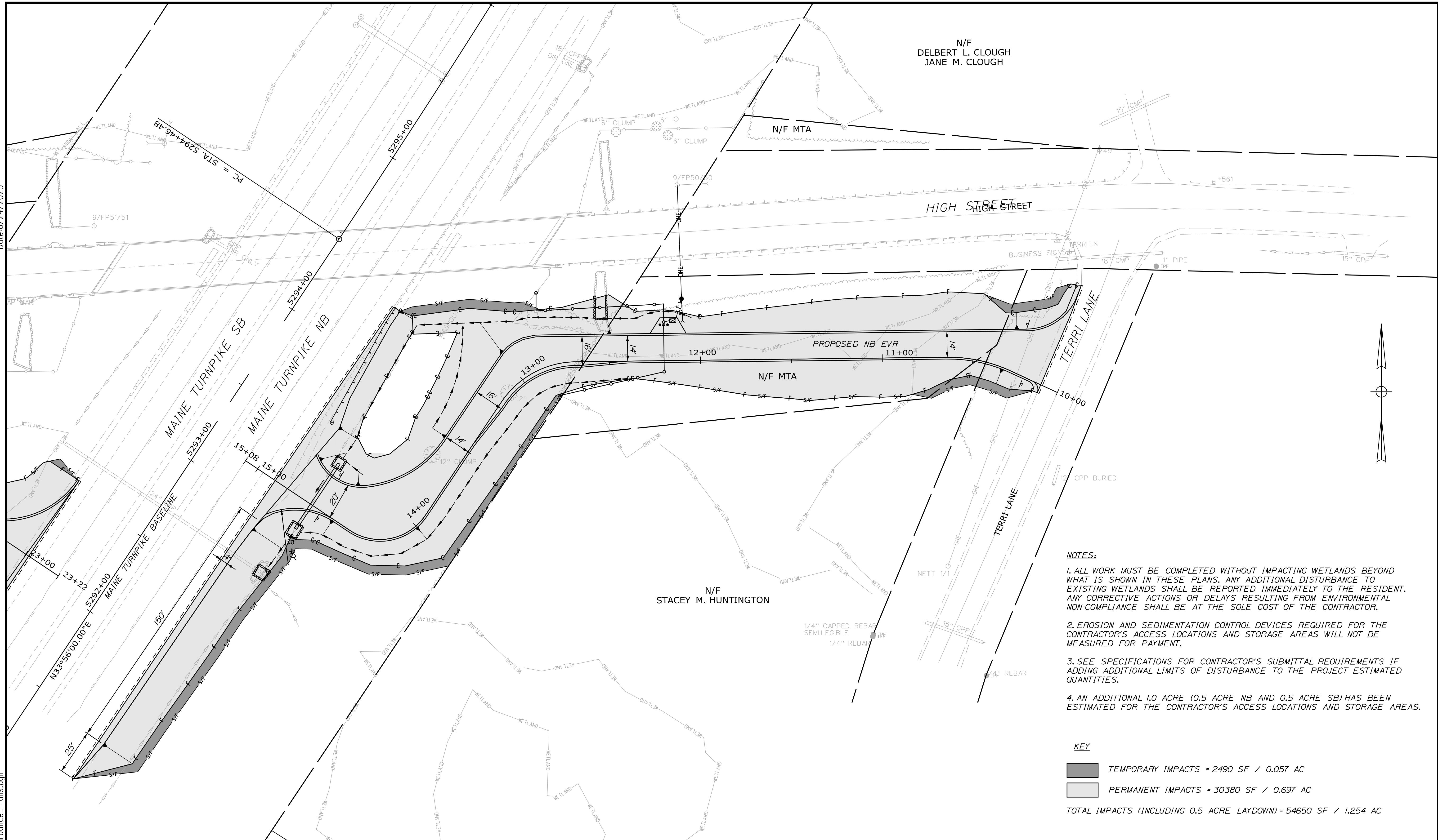
No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

MTA PROJECT MANAGER: Ryan Barnes, PE

Date: 6/24/2023

Filename: ...MSTA\040\_Disturbance\_Plans.dgn



N/F  
DELBERT L. CLOUGH  
JANE M. CLOUGH

N/F MTA

HIGH STREET

MAINE TURNPIKE SB  
MAINE TURNPIKE MB

TERRI LANE

PROPOSED NB EVR

N/F MTA

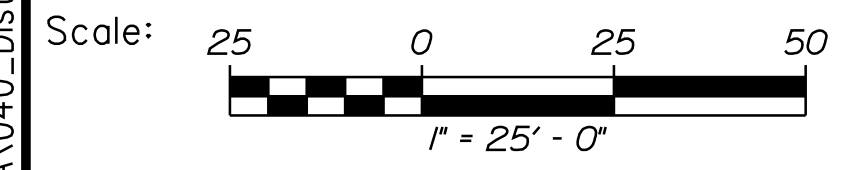
N/F  
STACEY M. HUNTINGTON

**NOTES:**

1. ALL WORK MUST BE COMPLETED WITHOUT IMPACTING WETLANDS BEYOND WHAT IS SHOWN IN THESE PLANS. ANY ADDITIONAL DISTURBANCE TO EXISTING WETLANDS SHALL BE REPORTED IMMEDIATELY TO THE RESIDENT. ANY CORRECTIVE ACTIONS OR DELAYS RESULTING FROM ENVIRONMENTAL NON-COMPLIANCE SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
2. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
3. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
4. AN ADDITIONAL 1.0 ACRE (0.5 ACRE NB AND 0.5 ACRE SB) HAS BEEN ESTIMATED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS.

**KEY**

- TEMPORARY IMPACTS = 2490 SF / 0.057 AC
  - PERMANENT IMPACTS = 30380 SF / 0.697 AC
- TOTAL IMPACTS (INCLUDING 0.5 ACRE LAYDOWN) = 54650 SF / 1.254 AC



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
DISTURBANCE IMPACT PLAN (1 OF 2)  
NORTHBOUND**

No.	Revision	By	Date

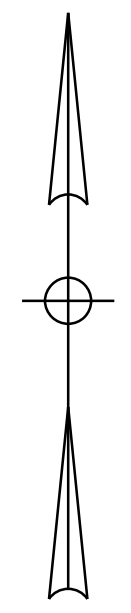
CONSULTANT PROJECT MANAGER: E. Flynn			
	By	Date	
Designed	BMD	6/21/23	Checked ECF 6/21/23
Drawn	AHS	6/21/23	In Charge of AG 6/21/23

MTA PROJECT MANAGER: Ryan Barnes, PE

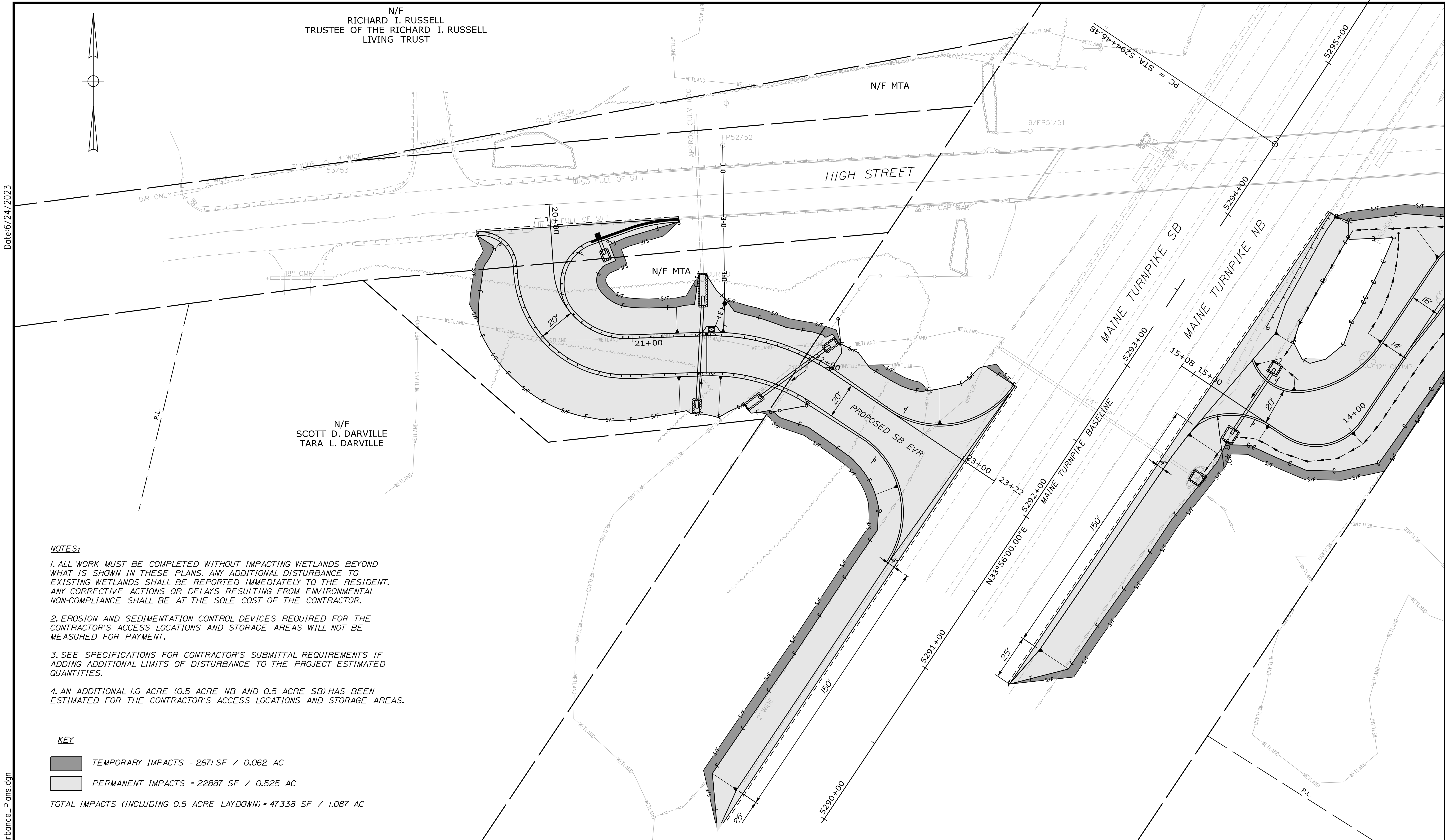
VHB: 55639.00  
CONTRACT: 2023.04

SHEET NUMBER: 14  
14 OF 31

N/F  
RICHARD I. RUSSELL  
TRUSTEE OF THE RICHARD I. RUSSELL  
LIVING TRUST



Date: 6/24/2023



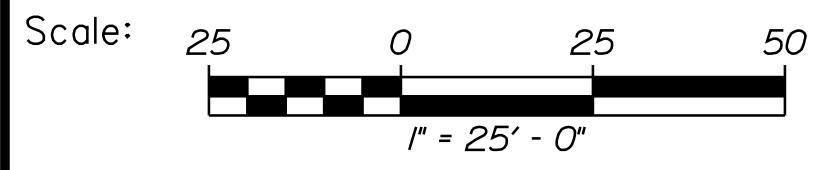
**NOTES:**

1. ALL WORK MUST BE COMPLETED WITHOUT IMPACTING WETLANDS BEYOND WHAT IS SHOWN IN THESE PLANS. ANY ADDITIONAL DISTURBANCE TO EXISTING WETLANDS SHALL BE REPORTED IMMEDIATELY TO THE RESIDENT. ANY CORRECTIVE ACTIONS OR DELAYS RESULTING FROM ENVIRONMENTAL NON-COMPLIANCE SHALL BE AT THE SOLE COST OF THE CONTRACTOR.
2. EROSION AND SEDIMENTATION CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
3. SEE SPECIFICATIONS FOR CONTRACTOR'S SUBMITTAL REQUIREMENTS IF ADDING ADDITIONAL LIMITS OF DISTURBANCE TO THE PROJECT ESTIMATED QUANTITIES.
4. AN ADDITIONAL 1.0 ACRE (0.5 ACRE NB AND 0.5 ACRE SB) HAS BEEN ESTIMATED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS.

**KEY**

TEMPORARY IMPACTS = 2671 SF / 0.062 AC  
 PERMANENT IMPACTS = 22887 SF / 0.525 AC  
 TOTAL IMPACTS (INCLUDING 0.5 ACRE LAYDOWN) = 47338 SF / 1.087 AC

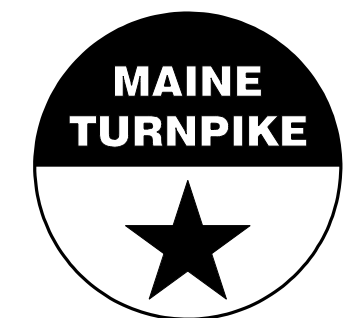
Filename: ...MSTA\040\_Disturbance\_Plans.dgn



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
DISTURBANCE IMPACT PLAN (2 OF 2)  
SOUTHBOUND**

No.	Revision	By	Date

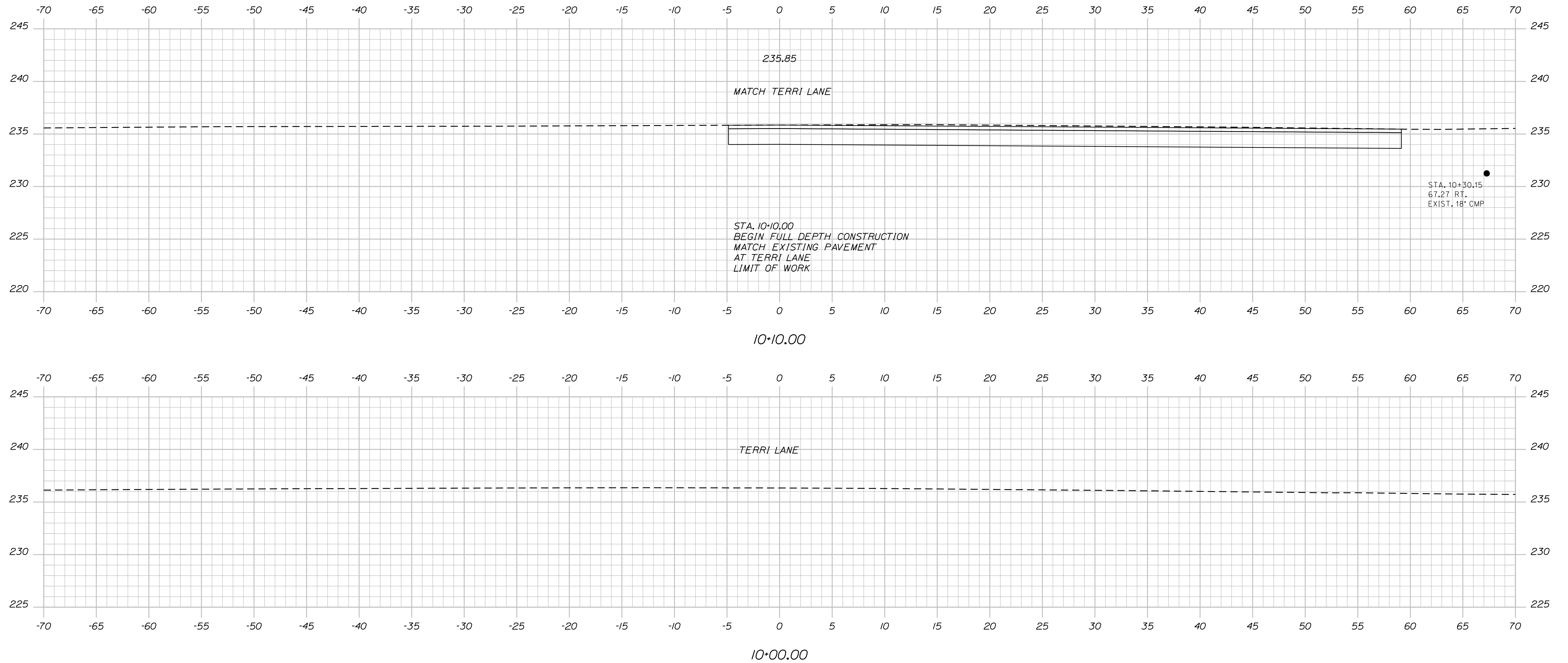
CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

MTA PROJECT MANAGER: Ryan Barnes, PE

VHB: 55639.00  
CONTRACT: 2023.04

SHEET NUMBER: 15  
15 OF 31

Date: 6/24/2023



Sta. 10+00.00 to Sta. 10+10.00

Scale: 5 0 5 10  
1" = 5' - 0"

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THE GOLD STAR  
MEMORIAL HIGHWAY

HIGH STREET  
EMERGENCY VEHICLE RAMP  
CROSS SECTIONS (1 OF 8)  
NORTHBOUND

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

MTA PROJECT MANAGER: Ryan Barnes, PE

VHB: 55639.00  
CONTRACT: 2023.04

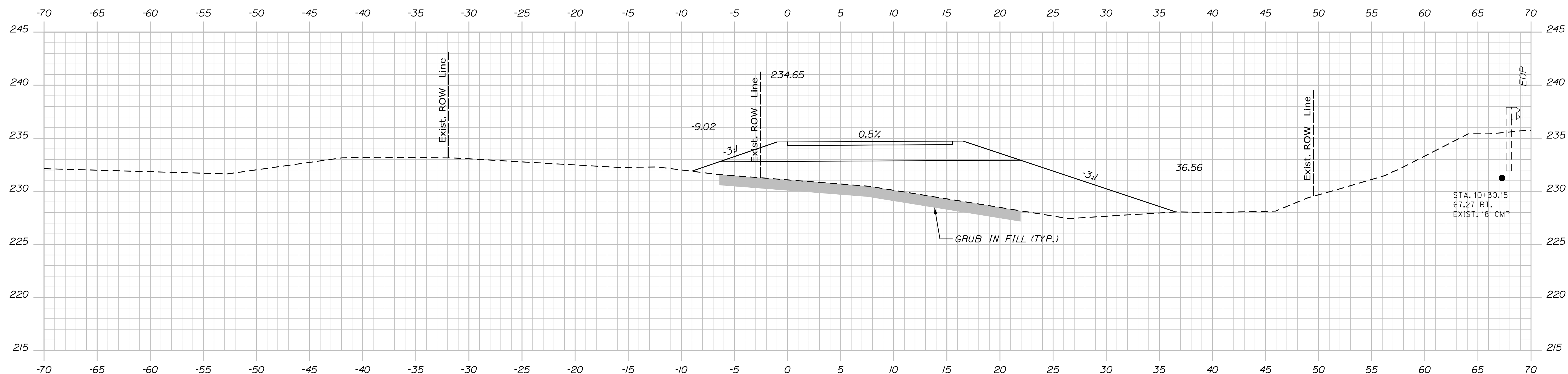
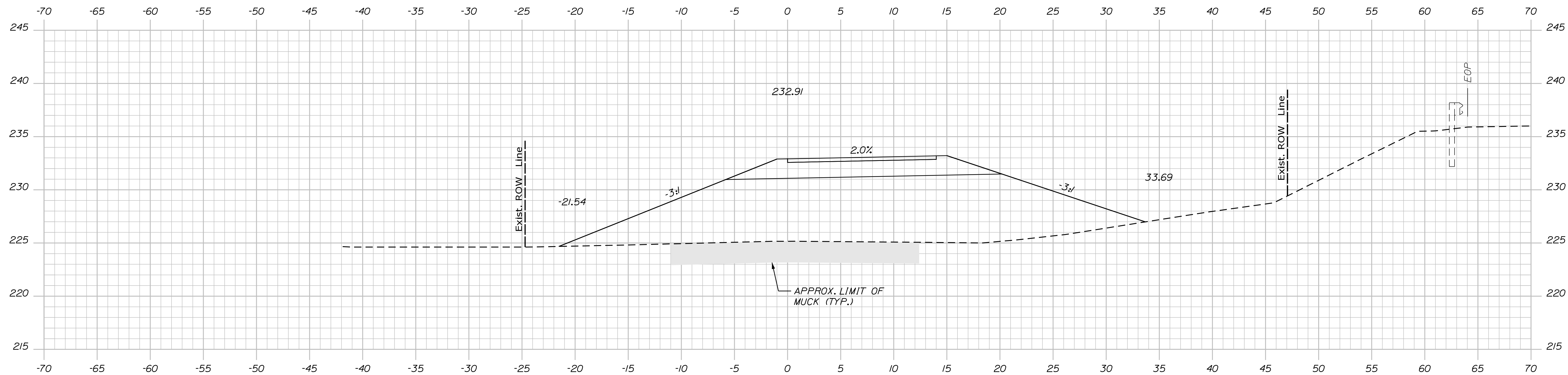
SHEET NUMBER: NB-XS-1  
16 OF 31

Filename: ... \HIGHWAY\MSTA\030\_Xsect.dgn

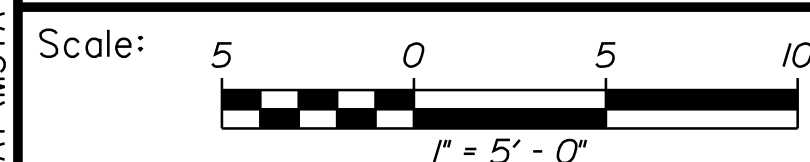


Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn



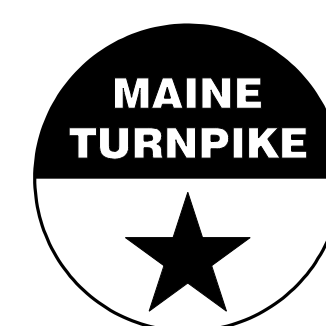
Sta. 10+50.00 to Sta. 11+00.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 CROSS SECTIONS (2 OF 8)  
 NORTHBOUND

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date	Checked	By	Date
Designed	BMD	6/21/23	ECF	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

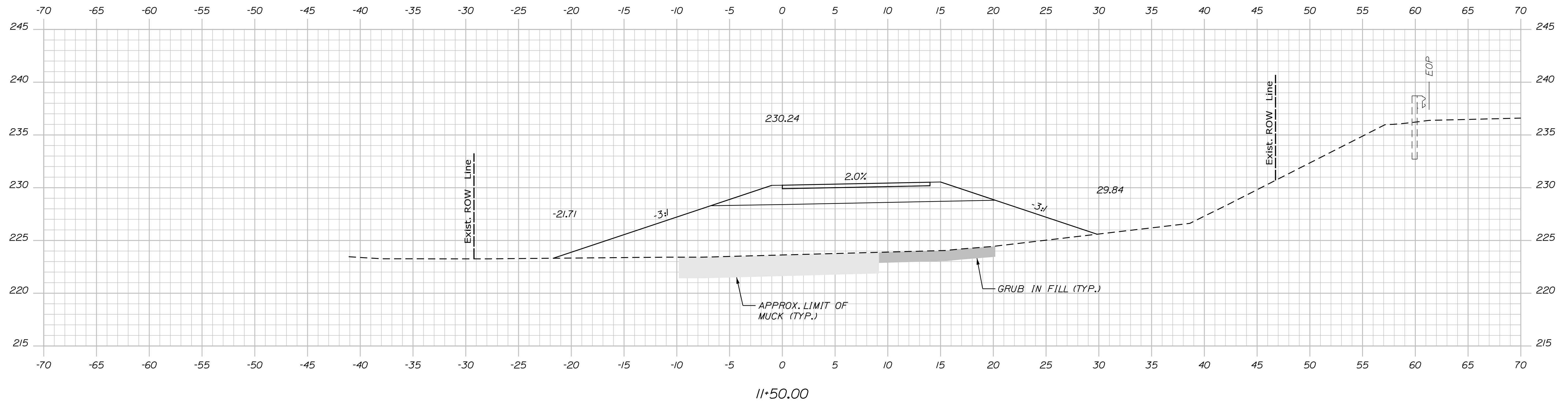
MTA PROJECT MANAGER: Ryan Barnes, PE

VHB: 55639.00  
 CONTRACT: 2023.04

SHEET NUMBER: NB-XS-2  
 17 OF 31

Date: 6/24/2023

Filename: ... \HIGHWAY\MSTA\030\_Xsect.dgn




Sta. 11+50.00

Scale: 5 0 5 10  
1" = 5' - 0"

No.	Revision	By	Date

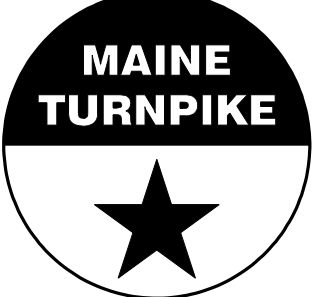
Designed by:



CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date	Checked	By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

VANASSE HANGEN BRUSTLIN, INC.  
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South Portland, ME 04106  
TEL (207) 889-3150  
FAX (207) 253-5596



**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

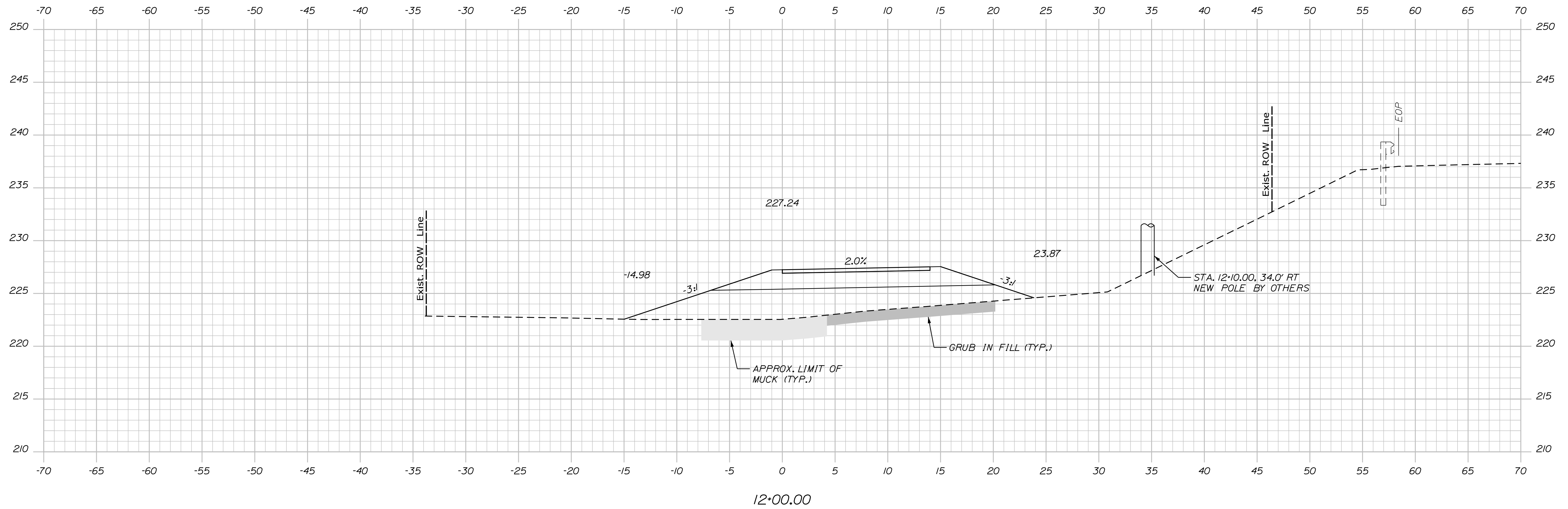
**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
CROSS SECTIONS (3 OF 8)  
NORTHBOUND**

VHB: 55639.00  
CONTRACT: 2023.04

SHEET NUMBER: NB-XS-3  
18 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn




Sta. 12+00.00

Scale: 1" = 5' - 0"

No.	Revision	By	Date


Designed by:



CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date	Checked	By	Date
Designed	BMD	6/21/23	ECF	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

VANASSE HANGEN BRUSTLIN, INC.  
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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

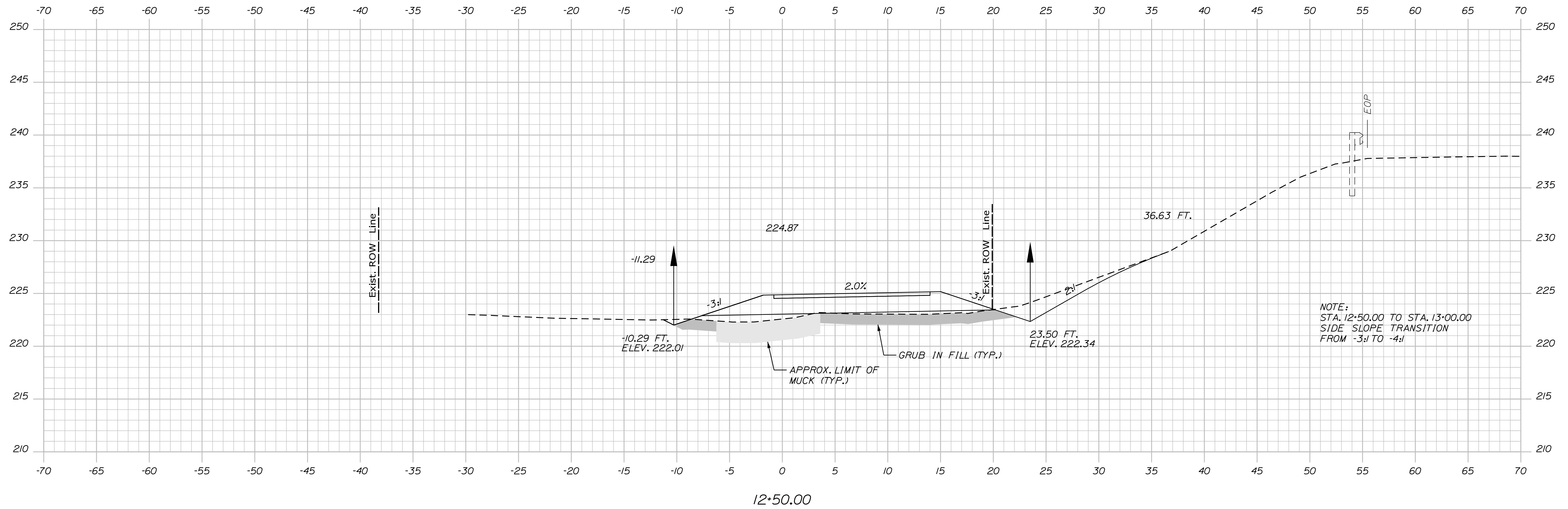
**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
CROSS SECTIONS (4 OF 8)  
NORTHBOUND**

VHB: 55639.00  
 CONTRACT: 2023.04

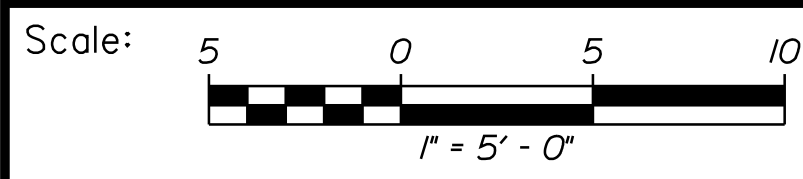
SHEET NUMBER: NB-XS-4  
 19 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn



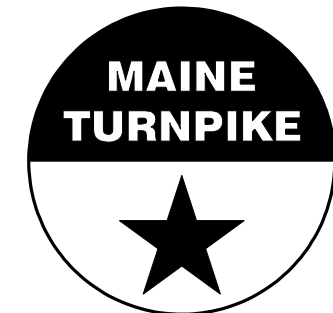
Sta. 12+50.00



Designed by:



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THE GOLD STAR  
 MEMORIAL HIGHWAY

HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 CROSS SECTIONS (5 OF 8)  
 NORTHBOUND

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

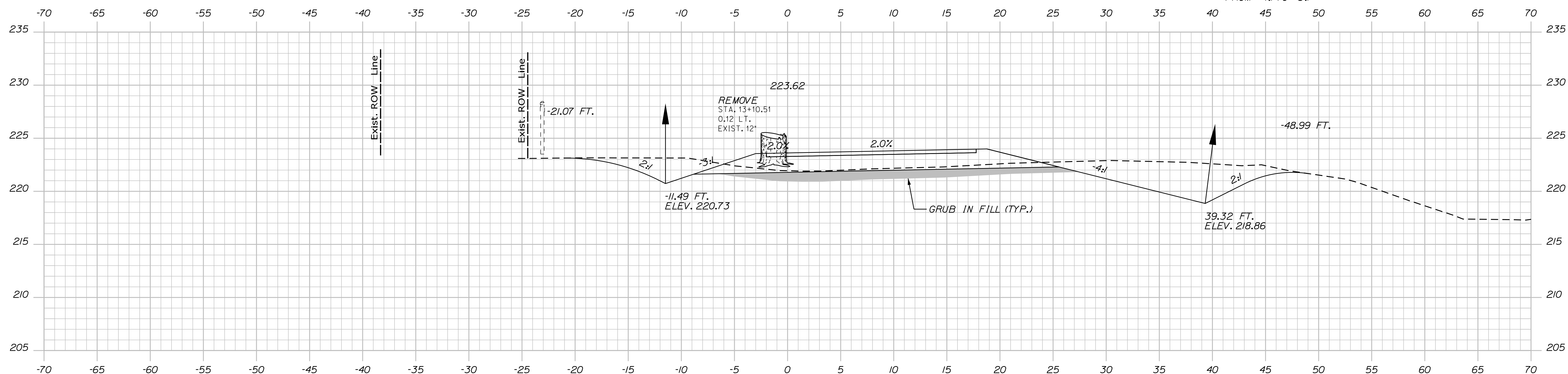
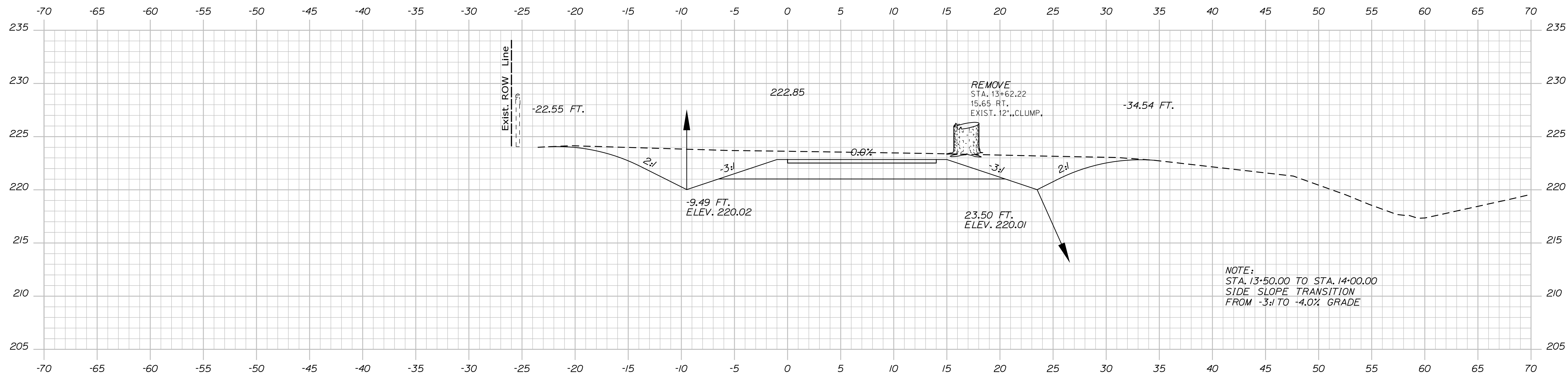
MTA PROJECT MANAGER: Ryan Barnes, PE

VHB: 55639.00  
 CONTRACT: 2023.04

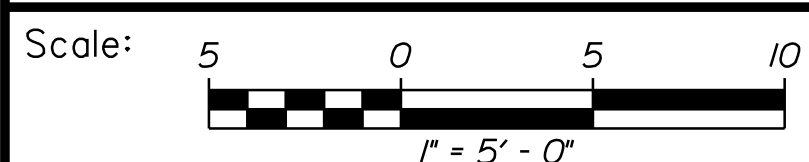
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 20 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn



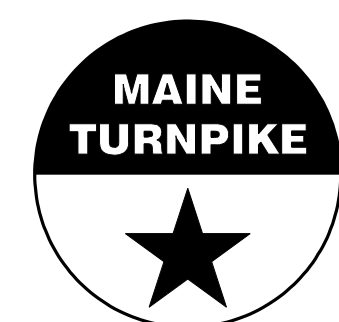
Sta. 13+00.00 to Sta. 13+50.00



Designed by:



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THE GOLD STAR  
 MEMORIAL HIGHWAY

HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 CROSS SECTIONS (6 OF 8)  
 NORTHBOUND

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

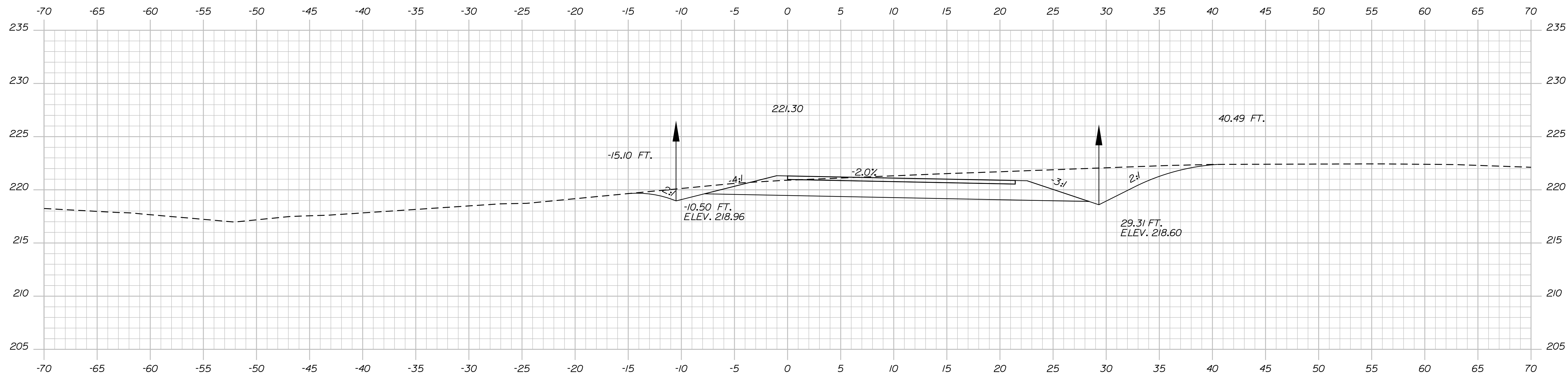
MTA PROJECT MANAGER: Ryan Barnes, PE

VHB: 55639.00  
 CONTRACT: 2023.04

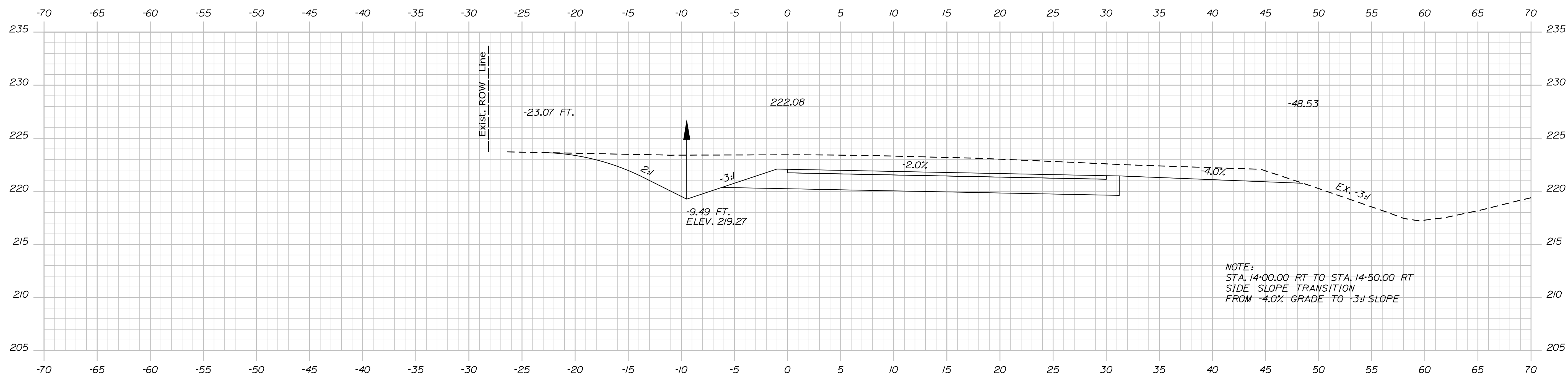
SHEET NUMBER: NB-XS-6  
 21 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn



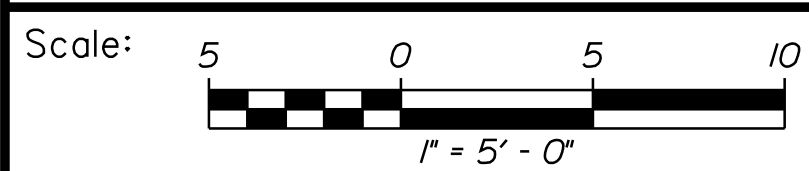
14+50.00



14+00.00

NOTE:  
STA. 14+00.00 RT TO STA. 14+50.00 RT  
SIDE SLOPE TRANSITION  
FROM -4.0% GRADE TO -3:1 SLOPE

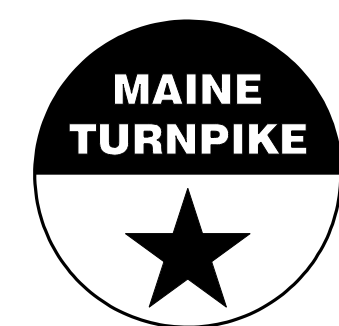
Sta. 14+00.00 to Sta. 14+50.00



Designed by:



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South Portland, ME 04106  
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THE GOLD STAR  
MEMORIAL HIGHWAY

HIGH STREET  
EMERGENCY VEHICLE RAMPS  
CROSS SECTIONS (7 OF 8)  
NORTHBOUND

No.	Revision	By	Date

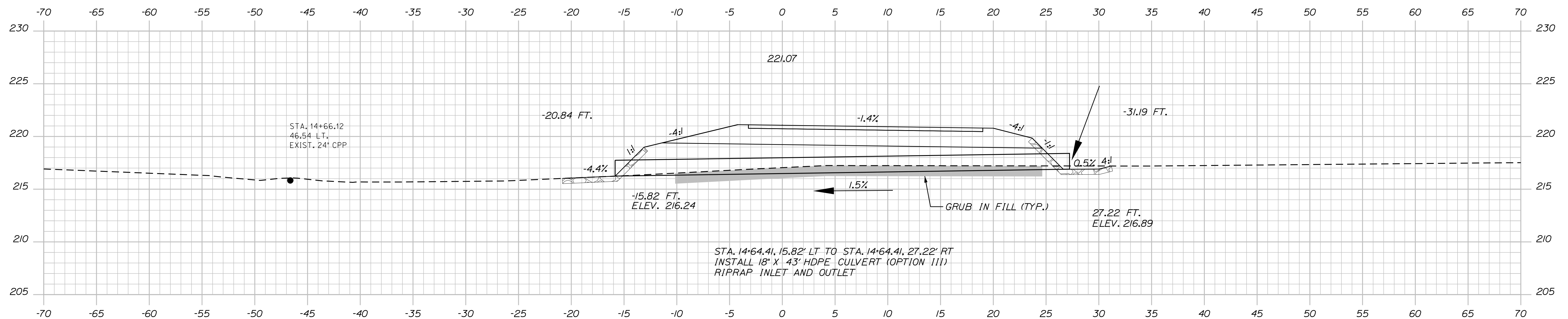
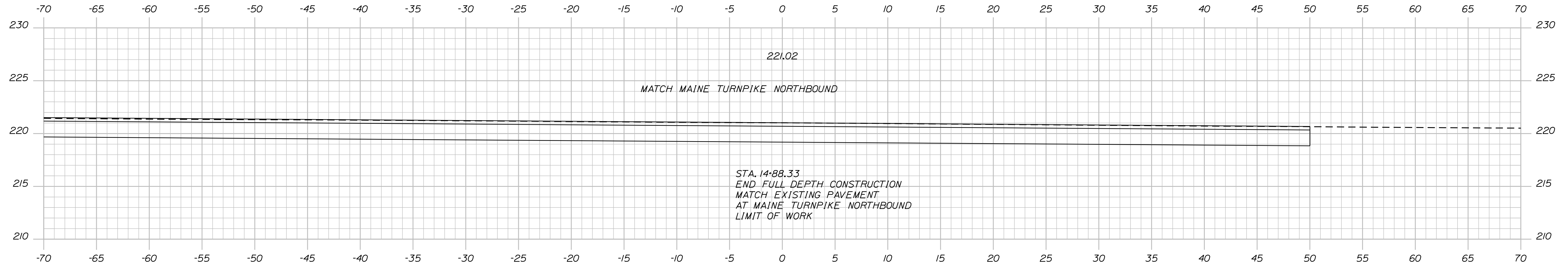
CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

MTA PROJECT MANAGER: Ryan Barnes, PE

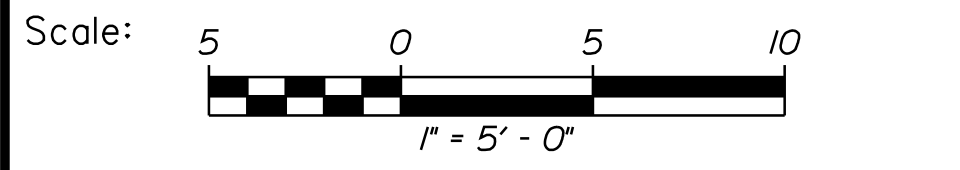
VHB: 55639.00  
CONTRACT: 2023.04

SHEET NUMBER: NB-XS-7  
22 OF 31

Date: 6/24/2023



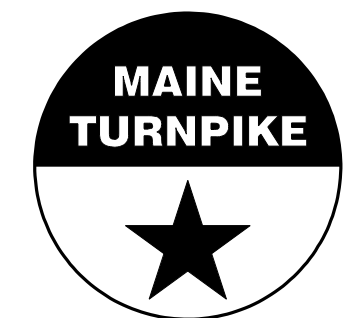
Sta. 14+64.41 to Sta. 14+88.33



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THE GOLD STAR  
 MEMORIAL HIGHWAY

HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 CROSS SECTIONS (8 OF 8)  
 NORTHBOUND

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

MTA PROJECT MANAGER: Ryan Barnes, PE

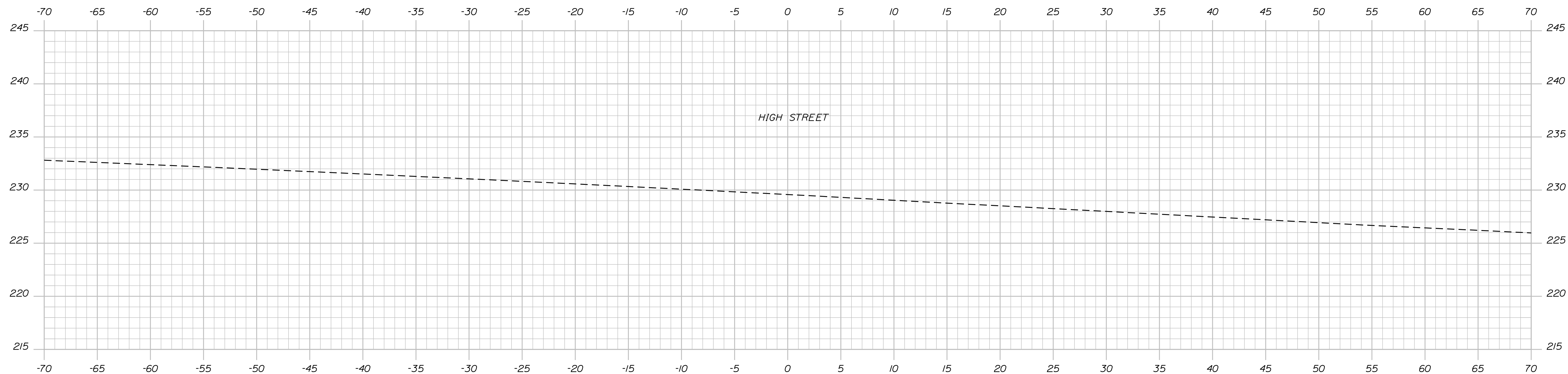
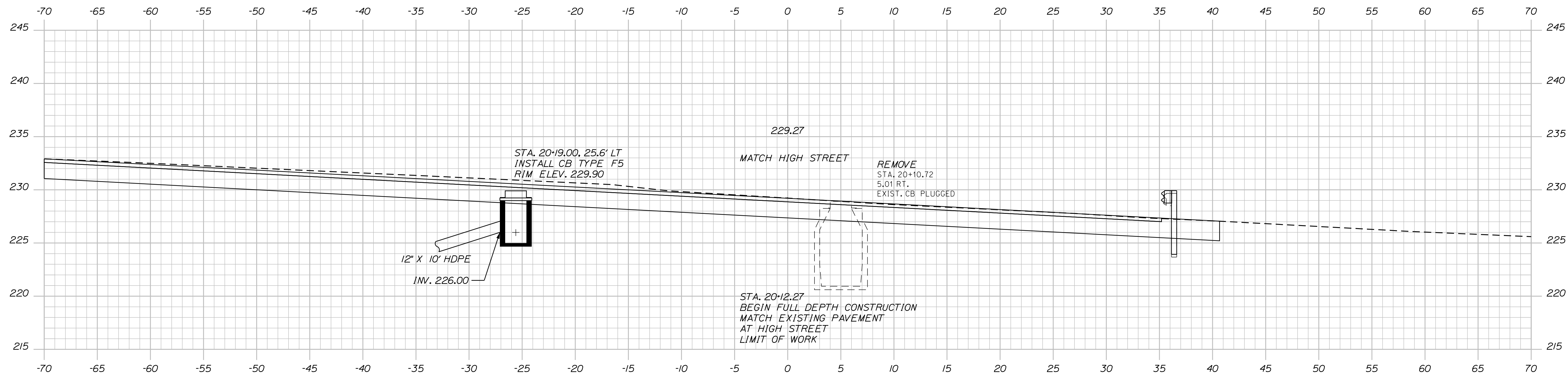
VHB: 55639.00  
 CONTRACT: 2023.04

SHEET NUMBER: NB-XS-8  
 23 OF 31

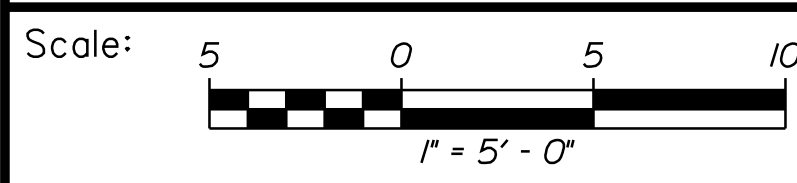
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Date: 6/24/2023

Filename: ... \HIGHWAY\MSTA\030\_Xsect.dgn



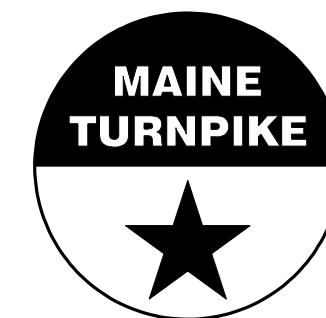
Sta. 20+00.00 to Sta. 20+12.27



Designed by:



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**THE GOLD STAR  
 MEMORIAL HIGHWAY**

**HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 CROSS SECTIONS (1 OF 8)  
 SOUTHBOUND**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date	Checked	By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

MTA PROJECT MANAGER: Ryan Barnes, PE

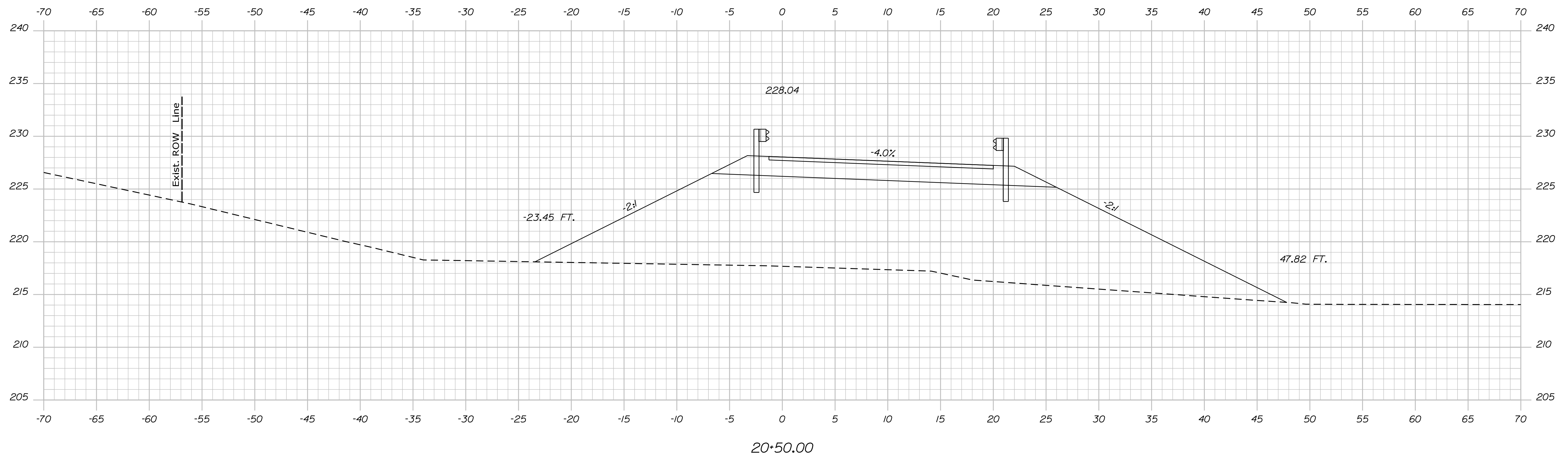
VHB: 55639.00  
 CONTRACT: 2023.04

SHEET NUMBER: SB-XS-1  
 24 OF 31

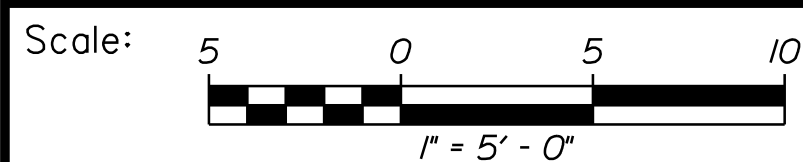


Date: 6/24/2023

Filename: ... \HIGHWAY\MSTA\030\_Xsect.dgn



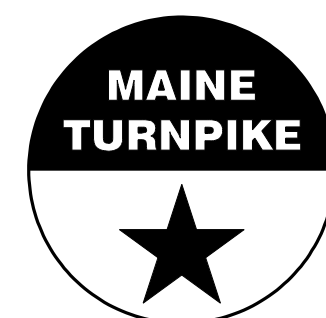
Sta. 20+50.00



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THE GOLD STAR  
 MEMORIAL HIGHWAY

HIGH STREET  
 EMERGENCY VEHICLE RAMP  
 CROSS SECTIONS (2 OF 8)  
 SOUTHBOUND

No.	Revision	By	Date

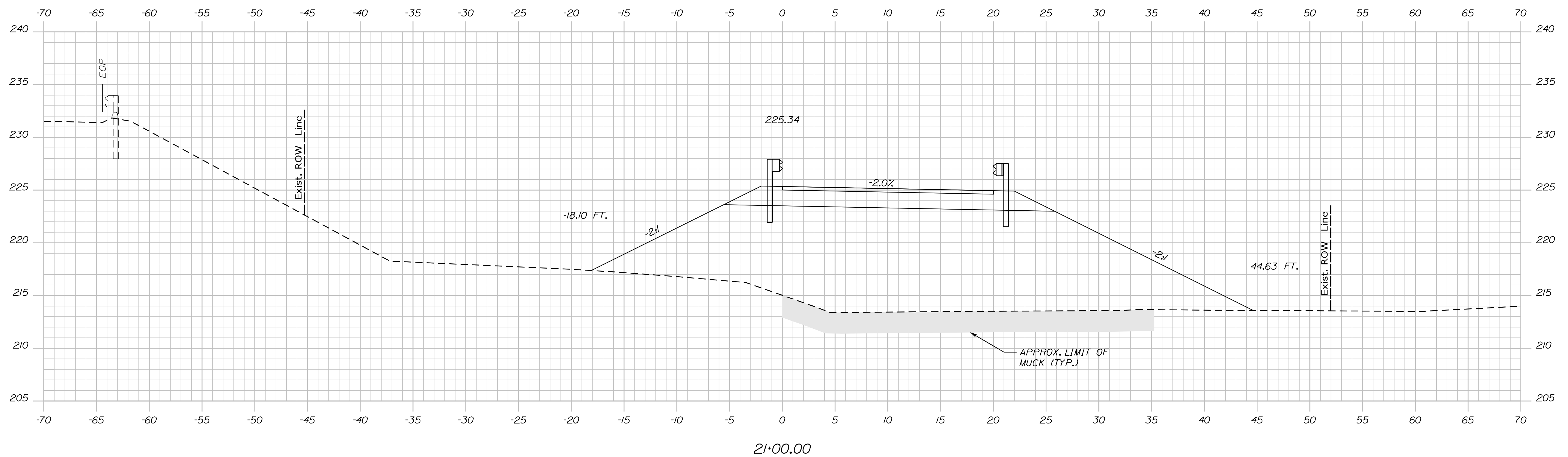
CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

VHB: 55639.00  
 CONTRACT: 2023.04

SHEET NUMBER: SB-XS-2  
 25 OF 31

Date: 6/24/2023

Filename: ... \HIGHWAY\MSTA\030\_Xsect.dgn




Sta. 21+00.00

Scale: 1" = 5' - 0"

No.	Revision	By	Date

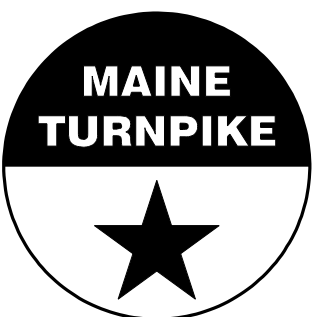
Designed by:



CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date	Checked	By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

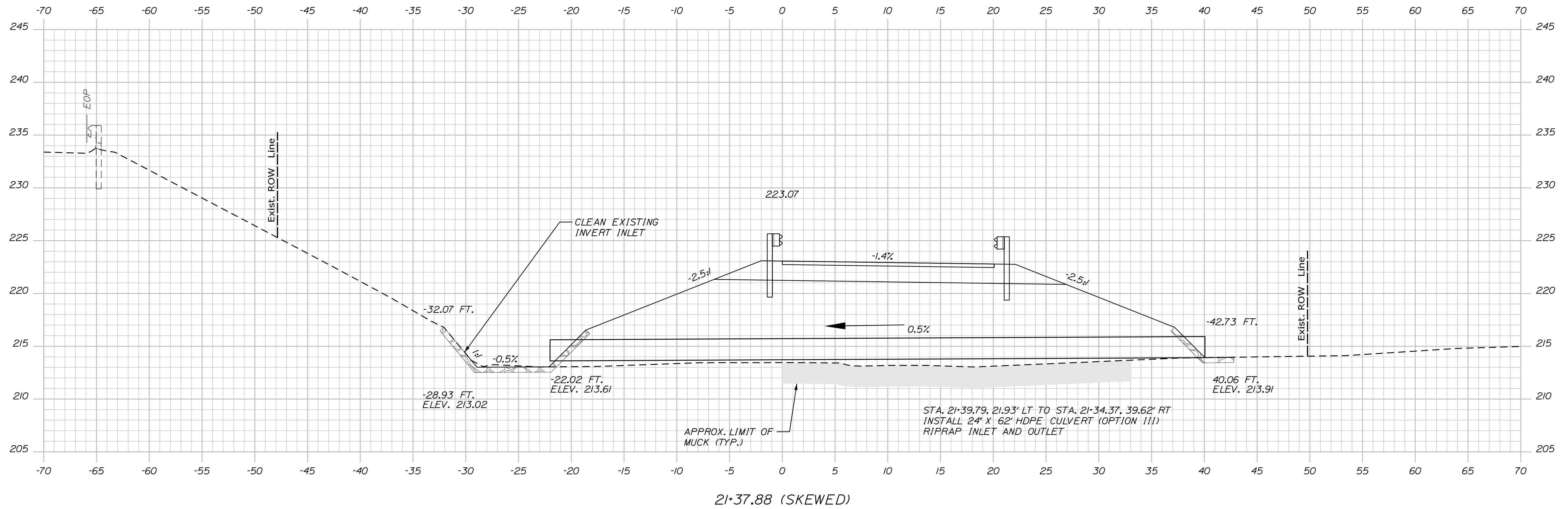
**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
CROSS SECTIONS (3 OF 8)  
SOUTHBOUND**

VHB: 55639.00  
 CONTRACT: 2023.04

SHEET NUMBER: SB-XS-3  
 26 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_xsect.dgn




Sta. 21+37.88

Scale: 5 0 5 10  
1" = 5' - 0"

No.	Revision	By	Date


Designed by:



CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date	Checked	By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

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**THE GOLD STAR  
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

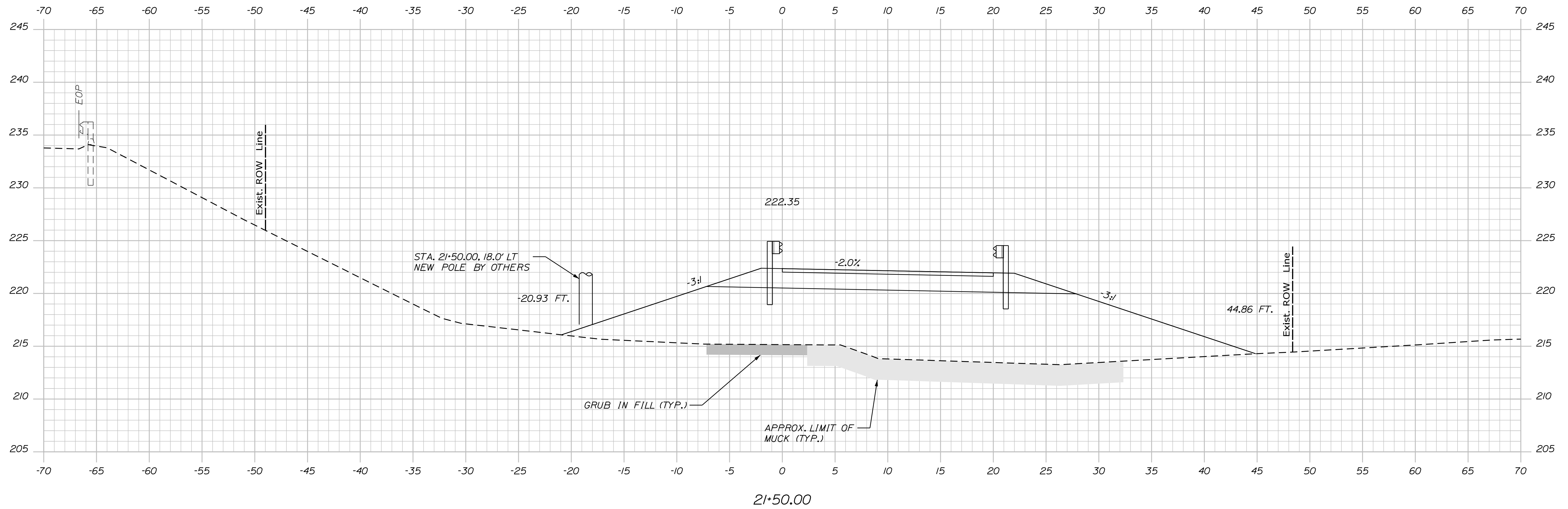
**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
CROSS SECTIONS (4 OF 8)  
SOUTHBOUND**

VHB: 55639.00  
CONTRACT: 2023.04

SHEET NUMBER: SB-XS-4  
27 OF 31

Date: 6/24/2023


Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn



Scale: 5 0 5 10  
1" = 5' - 0"

No.	Revision	By	Date

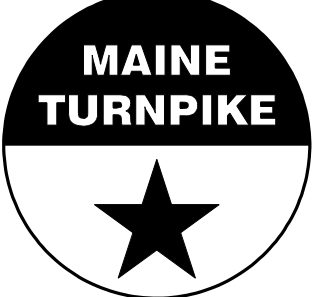
Designed by:



CONSULTANT PROJECT MANAGER: E. Flynn

	By	Date	Checked	By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

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MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ryan Barnes, PE

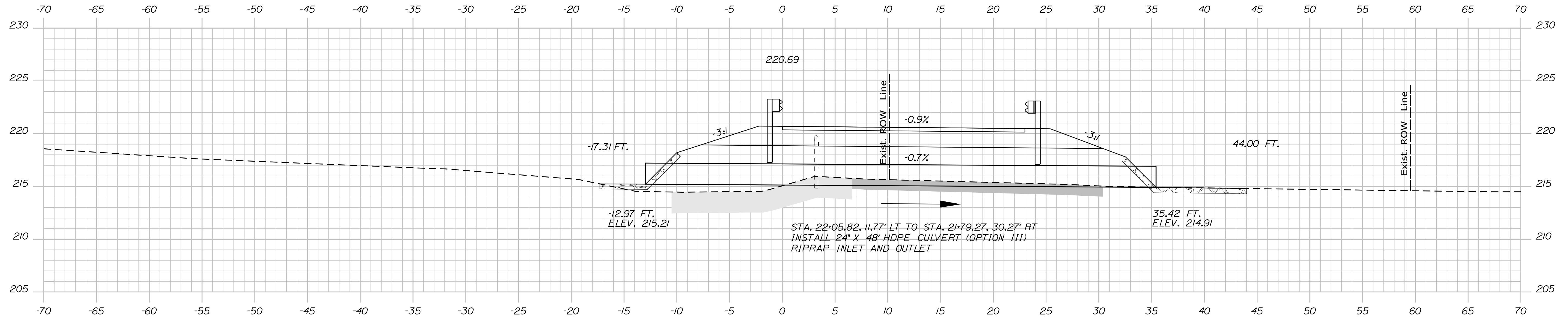
**HIGH STREET  
EMERGENCY VEHICLE RAMPS  
CROSS SECTIONS (5 OF 8)  
SOUTHBOUND**

VHB: 55639.00  
CONTRACT: 2023.04

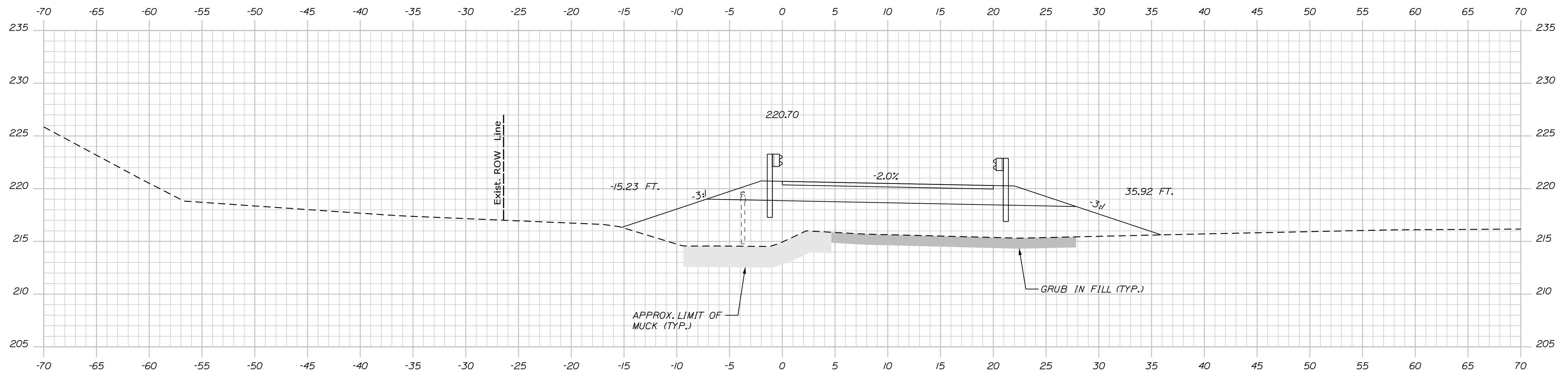
SHEET NUMBER: SB-XS-5  
28 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn

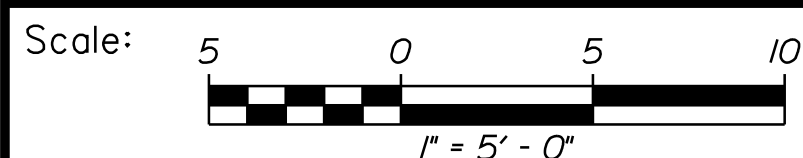


22+00.45 (SKEWED)



22+00.00

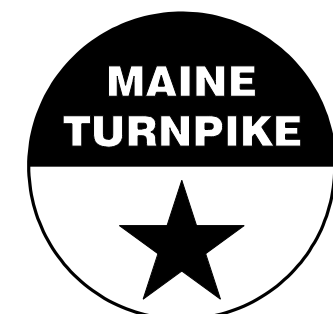
Sta. 22+00.00 to Sta. 22+00.45



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HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 CROSS SECTIONS (6 OF 8)  
 SOUTHBOUND

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

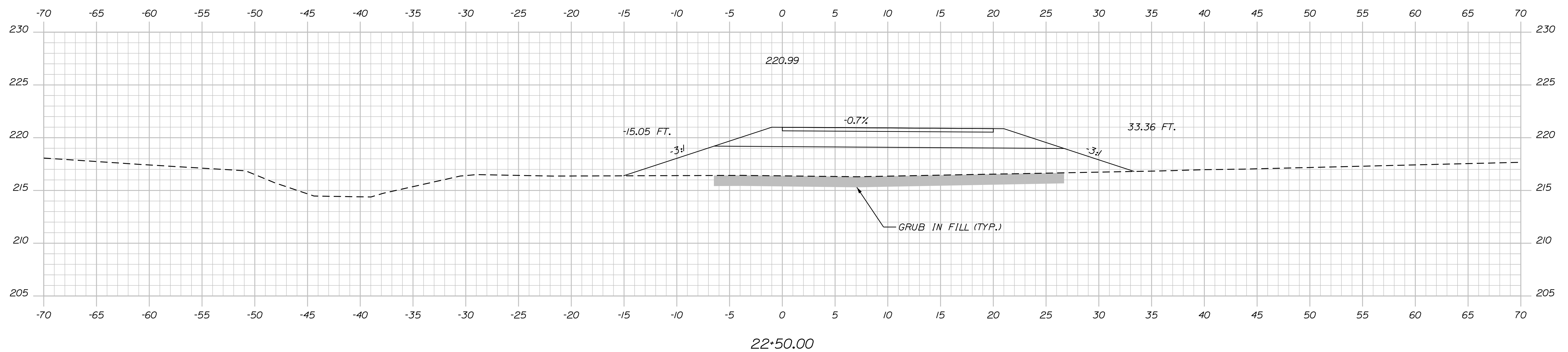
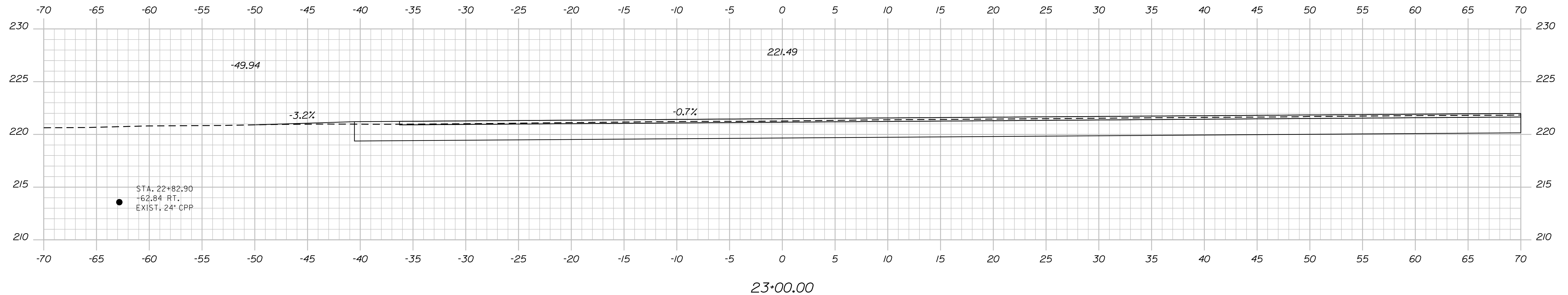
MTA PROJECT MANAGER: Ryan Barnes, PE

VHB: 55639.00  
 CONTRACT: 2023.04

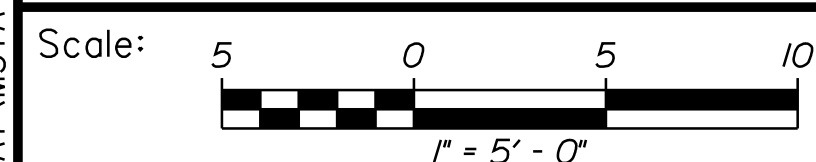
SHEET NUMBER: SB-XS-6  
 29 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn



Sta. 22+50.00 to Sta. 23+00.00



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HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 CROSS SECTIONS (7 OF 8)  
 SOUTHBOUND

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

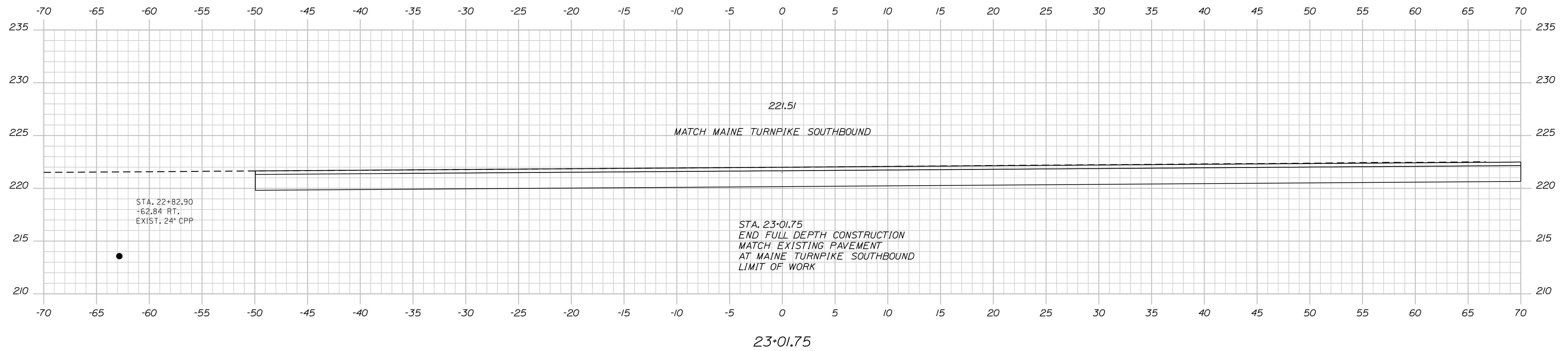
MTA PROJECT MANAGER: Ryan Barnes, PE

VHB: 55639.00  
 CONTRACT: 2023.04

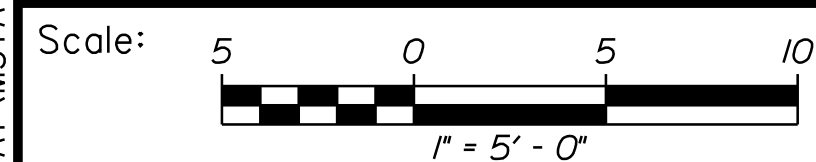
SHEET NUMBER: SB-XS-7  
 30 OF 31

Date: 6/24/2023

Filename: ...HIGHWAY\MSTA\030\_Xsect.dgn



Sta. 23+01.75



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 MEMORIAL HIGHWAY**

**HIGH STREET  
 EMERGENCY VEHICLE RAMPS  
 CROSS SECTIONS (8 OF 8)  
 SOUTHBOUND**

No.	Revision	By	Date

CONSULTANT PROJECT MANAGER: E. Flynn					
	By	Date		By	Date
Designed	BMD	6/21/23	Checked	ECF	6/21/23
Drawn	AHS	6/21/23	In Charge of	AG	6/21/23

MTA PROJECT MANAGER: Ryan Barnes, PE

VHB: 55639.00  
 CONTRACT: 2023.04

SHEET NUMBER: SB-XS-8  
 31 OF 31