AUGUSTA

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INT 86
LEWISTON

MAINE TURNPIKE AUTHORITY

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

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2024.13 CULVERT AND SLOPE REPAIRS

CONTRACT 2024.13 CULVERT AND SLOPE REPAIRS MM 72.2

LOCATION MAP

WESTBROOK

FALMOUTH

SCARBOROUGH

BIDDEFORD

KENNEBUNK

WELLS

SOUTH

OGUNQUIT

YORK BEACH

KITTERY

PORTSMOUTH

SACO

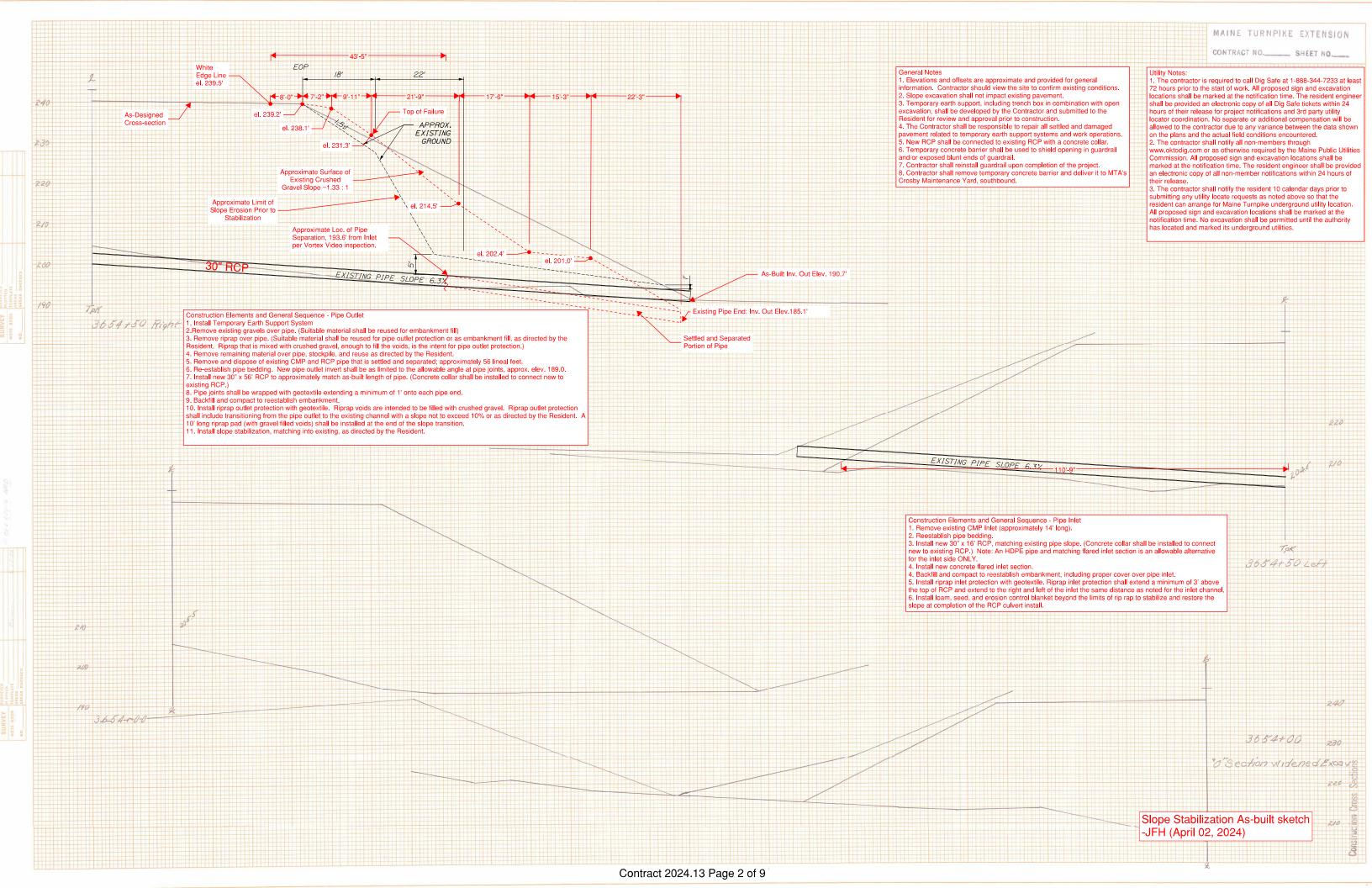
MAINE TURNPIKE AUTHORITY

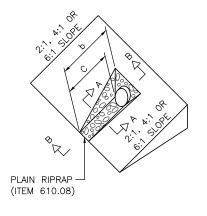
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FINTS

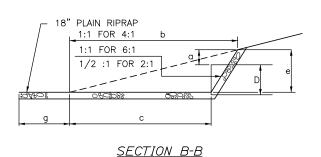


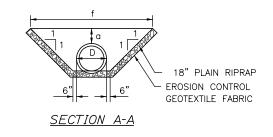




DIMENSIONS FOR SLOPE OF 2:1

							STONE	STONE
D	а	ь	С	е	f	g	DEPTH	(CY)
	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	
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





ROADWAY CULVERT END SLOPE TREATMENT

CULVERT NOTES:

I. THE DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE MODIFIED BY THE RESIDENT.

2. STONE QUANTITIES ARE FOR ONE END OF THE PIPE.

- 6. 6.	Scal	e:			Designed by:					
n_ Dtls.		NOT TO SCALE			HN	ITR				
006_Drr	No.	Revision	Ву	Date						
۳						By	Date		Ву	Date
ilename					Designed	PEM	4/24	Checked	DAM	4/24
Ē					Drawn	РЕМ	4/24	In Charge of	TRC	4/24
		·								

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THE GOLD STAR MEMORIAL HIGHWAY

CULVERT AND SLOPE REPAIRS MM 72.2

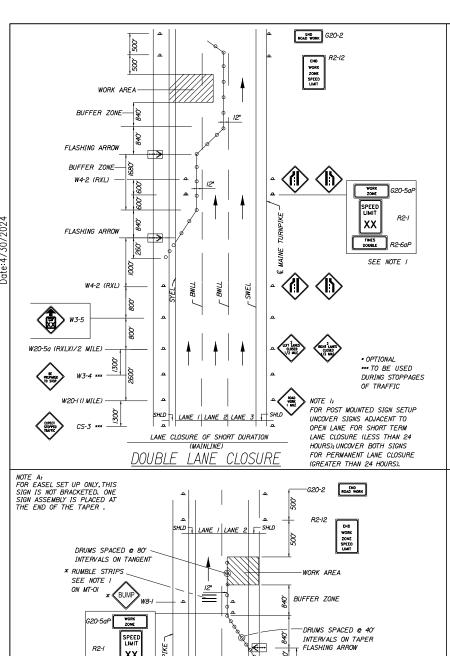
DRAINAGE DETAILS

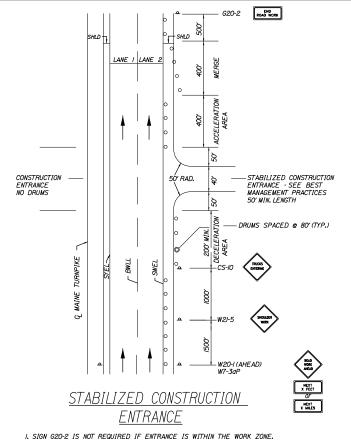
SHEET NUMBER:

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:2024.13

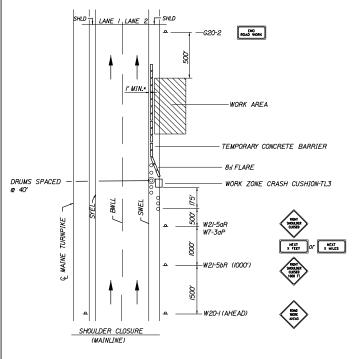




SHLD LANE I LANE 2 SHLD END ROAD WORK -G20-2 DRUMS SPACED © 80' INTERVALS ON TANGENT WORK AREA SHOULDER -W2I-5 SHOULDER WORK OF SHORT DURATION (MAINLINE)

SHOULDER WORK

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



SHOULDER CLOSURE

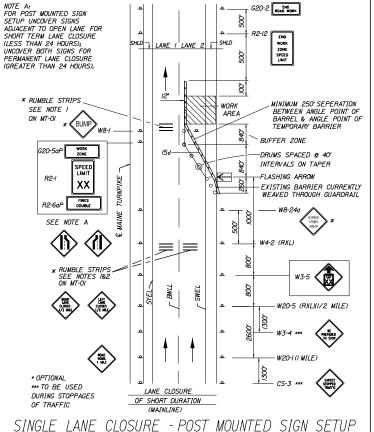
* FOR MAINLINE SHOULDER CLOSURES ONLY

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

2. ONLY ONE SHOULDER CLOSURE PERMITTED PER BOUND AT ONE TIME.

|xx R2-6aP SEE NOTE A W4-2 (R)(L) =* RUMBLE STRIPS SEE NOTES 1&2 ON MT-OI BWLL - W20-5 (R)(L)(I/2 MILE) - W20-I (I MILE) * OPTIONAL CS-3 *** *** TO BE USED LANE CLOSURE DURING STOPPAGES

OF SHORT DURATION



TEMPORARY CONCRETE BARRIER (TCB) SHALL BE USED IEMPOHARY CONCRETE BARRILER (ICB) SHALL BE USED TO SHIELD OPENING IN GUARDRAIL ABD/OR EXPOSED BLUNT ENDS OF GUARDRAIL TCB IS CURRENTLY ONSITE IN THE SHOULDER. CONTRACTOR SHALL BE RESPONSIBLE TO MOVE IT INTO PLACE TO CREATE CONTRACTOR ACCESS WITHIN A SINGLE RIGHT LANE CLOSURE.

CONTRACTOR SHALL COORDINATE WITH RESIDENT AND REPLACE ALL MTA OWNED TRAFFIC CONTROL DEVICES, EXCEPT TEMPORARY CONCRETE BARRIER, WITH THEIR OWN DEVICES AT THE FIRST SHOULDER OR LANE CLOSURE SETUP. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMAINING TRAFFIC CONTROL THROUGHOUT THE CONTRACT.

TAPER RATE FOR TEMPORARY CONCRETE BARRIER SHALL BE A MINIMUM OF BJUNLESS MORE SPACE IS AVAILABLE, THEN THE BARRIER SHALL BE TAPERED AT ISJOR 1007, WHICHEVER IS LONGEST. THE BARRIER SHALL TERMINATE WEAVED INTO EXISTING GUARDRAIL; EXISTING CONDITION.

BARREL TAPER SHALL PROVIDE A MINIMUM 250 BUFFER TO WHERE THE BARRIER BECOMES PARALLEL TO THE TRAVEL LANE.

GENERAL MAINTENANCE OF TRAFFIC NOTES:

- I. 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.
- 3. 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.
- 4. 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.
- 5. SPEED LIMIT, STOP, YIELD AND EXIT SIGNS SHALL BE A MINIMUM OF 5' ABOVE THE PAVEMENT.

ABBREVIATIONS FOR ALL M.O.T. PLANS

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

SYFL = SOLID YELLOW FDGE LINE

TBWLL - TEMPORARY BROKEN WHITE LANE LINE

TSWLL = TEMPORARY SOLID WHITE LANE LINE TSYLL = TEMPORARY SOLID YELLOW LANE LINE

TEMPORARY RUMBLE STRIP NOTES

- I. IF RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS:

 ADJUGACHT TO THE WORK ZONE (!UNIT)

 UPSTREAM FROM THE TAPER FOR THE WORKZONE (2 UNITS)

 BOTH ADJUGENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS)

 W8-1 SIGNS SHALL BE PLACED ADJUCENT TO THE FIRST RUMBLE STRIP AT
- ANY LOCATION. ONLY ONE SET OF W8-24a SIGNS ARE REQUIRED FOR ANY OF THE ABOVE CONFIGURATIONS. 2. RUMBLE STRIPS MAY BE PLACED UPSTREAM OF THE TAPER BETWEEN THE W3-5 SIGNS AND THE W4-2 SIGNS. IF RUMBLE STRIPS ARE INSTALLED PRIOR TO TAPER, W8-15IGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE W8-240 SIGNS SHALL BE MOYED TO 400' AFTER THE W20-5 SIGNS.

SINGLE LANE CLOSURE - SIGNS ON EASELS Scale:

OF TRAFFIC

NOT TO SCALE By Date No. Revision CONSULTANT PROJECT MANAGER: TIMOTHY R. COTE, P.I Date 4/24 Ву DAM Checked Designed 4/24 In Charge of TRC

Designed by:

HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909



THE GOLD STAR **MEMORIAL HIGHWAY** CULVERT AND SLOPE REPAIRS MM 72.2

MAINTENANCE OF TRAFFIC DETAILS

SHEET NUMBER:

CONTRACT: 2024.13

MTA PROJECT MANAGER:

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Figure 1 - Northbound Slope Failure before slope stabilization



Figure 2 - Northbound Slope Failure stabilized with riprap, sand, erosion stone, and gravel backfill



Figure 3 - Northbound Access Road, facing South. Access road to remain.



Figure 4 – Southbound Culvert inlet, existing condition (bypass pump from stabilization effort shown.)



Figure 5 – Southbound hay-bale and filter fabric settlement area. Outfall drains to north away from inlet