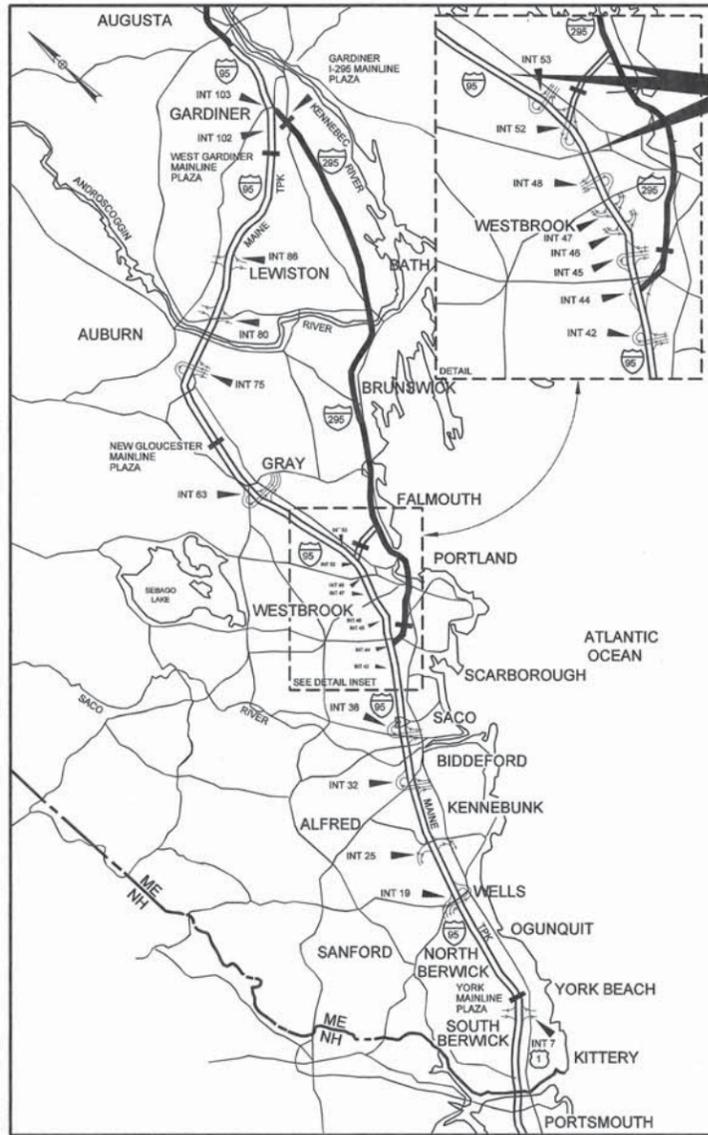


Date: 1/20/2015



LOCATION MAP

CONTRACT 2015.01
 PAVEMENT REHABILITATION
 MM 51.2 TO MM 54.5
 MM F0.0 TO MM F3.8
 GUARDRAIL AND CLEAR ZONE IMPROVEMENTS
 MM 51.1 TO MM 55.0
 F0.0 TO F3.8
 ROUTE 9 BRIDGE REPAIRS F3.7



THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
 JAMES F. CLOUTIER, VICE CHAIR
 GERARD P. CONLEY, SR., MEMBER
 JOHN E. DORITY, MEMBER
 ROBERT D. STONE, MEMBER
 FREEMAN R. GOODRICH, MEMBER
 KAREN S. DOYLE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2015.01

PAVEMENT REHABILITATION MM 51.2 TO MM 54.5 MM F0.0 TO MM F3.8

GUARDRAIL AND CLEAR ZONE IMPROVEMENTS MM 51.1 TO MM 55.0 F0.0 TO F3.8

ROUTE 9 BRIDGE REPAIRS F3.7

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	C-1 ESTIMATED QUANTITIES
3	C-2 DRAINAGE SUMMARY & FALMOUTH SPUR PAVING LIMITS
4-8	P-1 TO P-5 TYPICAL SECTIONS AND DETAILS
9-15	T-1 TO T-7 TRAFFIC CONTROL AND MAINTENANCE OF TRAFFIC
16-18	T-8 TO T-10 SIGN SUMMARY
19-21	T-11 TO T-13 PAVEMENT MARKING DETAILS
22-25	G-1 TO G-4 GUARDRAIL GENERAL NOTES AND DETAILS
26-31	G-5 TO G-10 GUARDRAIL SCHEDULES
32	D-1 PRESUMPCOT RIVER DITCH PLAN
33-43	CZ-1 TO CZ-11 CLEAR ZONE IMPROVEMENT PLANS AND SECTIONS
44	QT-01 QUANTITIES & GENERAL NOTES
45	LD-01 LIMIT OF DISTURBANCE
46	S-01 DECK PLAN & TYPICAL SECTION
47	S-02 BRIDGE PHASING
48	S-03 JOINT REPAIR DETAILS
49-53	S-04 TO S-08 ABUTMENT AND PIER REPAIRS
54	S-09 MISCELLANEOUS DETAILS
55-59	MT-01 TO MT-05 TRAFFIC CONTROL DETAILS AND NOTES
60-61	MT-06 TO MT-07 SIGN SUMMARY
62-69	AB-01 TO AB-08 EXISTING AS-BUILTS

TYLIN INTERNATIONAL



SHEETS QT-01, LD-01, S-01 TO S-08, MT-01 TO MT-07, AB-01 TO AB-08
 Norman L. Baker
 NORMAN L. BAKER, P.E.
 PROJECT MANAGER
 1/20/15
 DATE



SHEETS C-1, C-2, P-1 TO P-5, T-1 TO T-13
 Joseph R. Leavitt
 JOSEPH RYAN LEAVITT, P.E.
 SENIOR RESIDENT ENGINEER
 1/21/15
 DATE



SHEETS G-1 TO G-10, D-1, CZ-01 TO CZ-11
 Brian A. Taddeo
 BRIAN A. TADDEO, P.E.
 PROJECT ENGINEER
 1/23/15
 DATE



APPROVED: MAINE TURNPIKE AUTHORITY

Peter S. Merfeld
 PETER S. MERFELD, P.E. - CHIEF OPERATIONS OFFICER
 1-22-15
 DATE

Stephen R. Tartre
 STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING & BUILDING MAINTENANCE
 1/21/15
 DATE

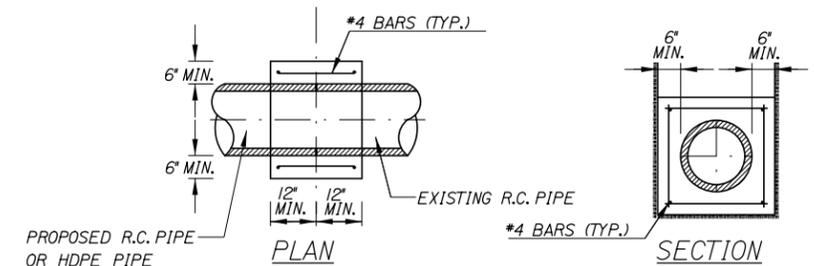
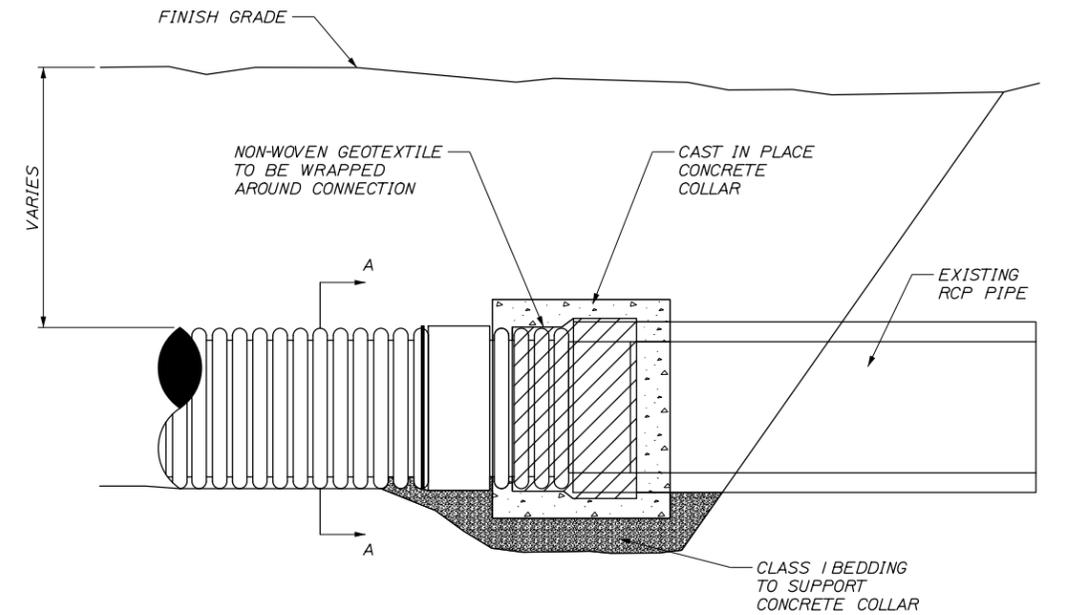
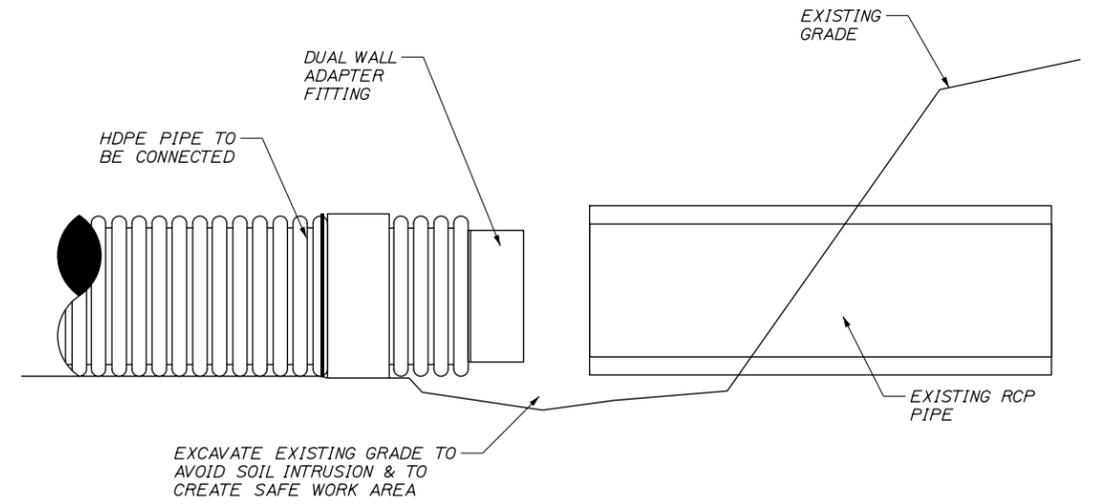
Filename: 001_MTAtitle-MTA.dgn

CONTRACT 2015.01

Date: 1/22/2015

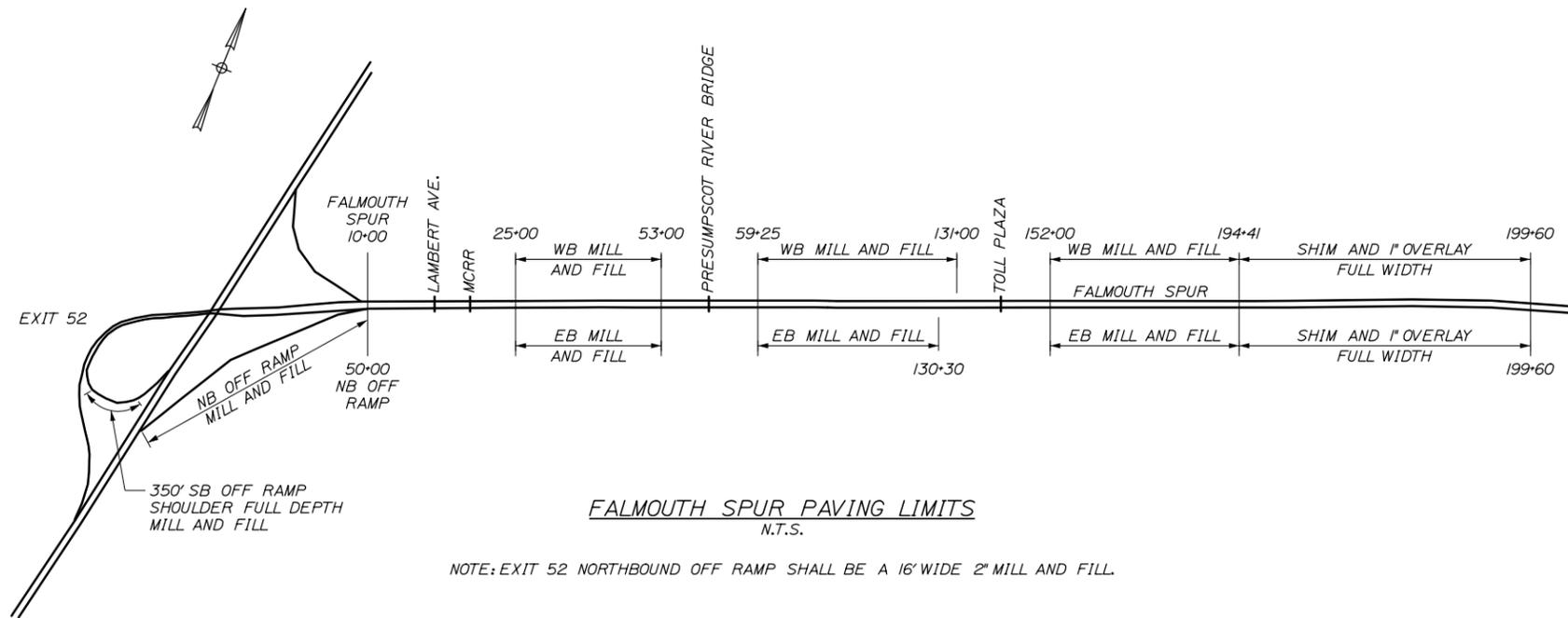
DRAINAGE SUMMARY INCLUDES LOCATIONS 1 THROUGH LOCATION 4

Location	ITEM NAME	RDWY	BIT. CONC. WATER-WAY Type I	BIT. CONC. WATER-WAY Type II	12" REINFORCED CONCRETE PIPE - CLASS III	REBUILD CATCH BASIN TO GRADE - TYPE II				REBUILD CATCH BASIN TO GRADE - TYPE IV	CATCH BASIN TYPE F3	EROSION CONTROL BLANKET	BALED HAY IN PLACE	30 inch TEMP. SILT FENCE	CATCH BASIN OUTLETS ON RDWY SLOPE	REMARKS
			GL	CIG												
	Item No.		459.06	459.061	603.155	604.184				604.186	604.242	613.319	656.50	656.632		
	Unit		Ea.	Ea.	Lf	LF	Ea.	Ea.	Ea.	Ea.		SY	Ea.	LF.		
	Station				9' Lt to 0'	0' to 9' Rt.	45' Lt.	9' Lt.	9' Rt.	45' Rt.	0'					
2	2706+30	SB	1			9	1	1		1	1	56	5	20	NB	
2	2638+00	SB		1						1	1	56	5	20	NB	
2	2587+40	SB	1			9		1	1			56	5	20	SB	
3	31+05	EB					1	1	1	1		56	5	20	WB	
Locations 1,2,3,4 TOTALS			2	1	0	18	2	3	2	2	3	224	20	80		



CONCRETE COLLAR
N.T.S.

NOTES:
1. CONNECTION AND PIPE TO BE BACKFILLED PER ASTM D2321.



NOTE: EXIT 52 NORTHBOUND OFF RAMP SHALL BE A 16' WIDE 2" MILL AND FILL.

Filename: 003_DrainSummary.dgn

No.	Revision	By	Date

Designed by:			
By	Date	By	Date
JRL	01/15	GJO	01/15
MPC	01/15	SRT	01/15



MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

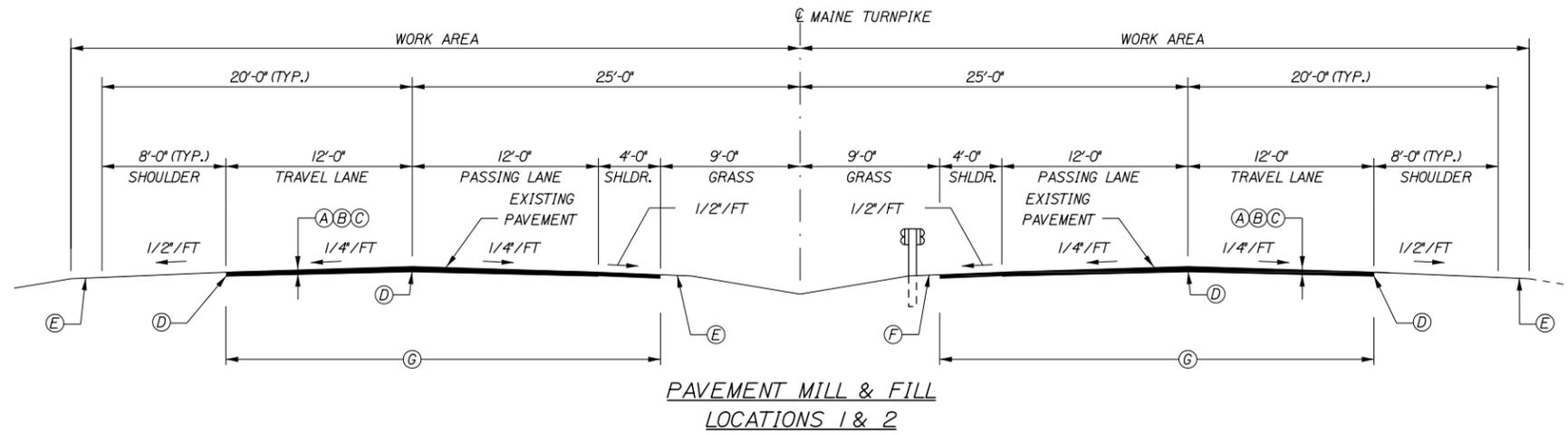
PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
DRAINAGE SUMMARY AND
FALMOUTH SPUR PAVING LIMITS

SHEET NUMBER: C-2

CONTRACT: 2015.01

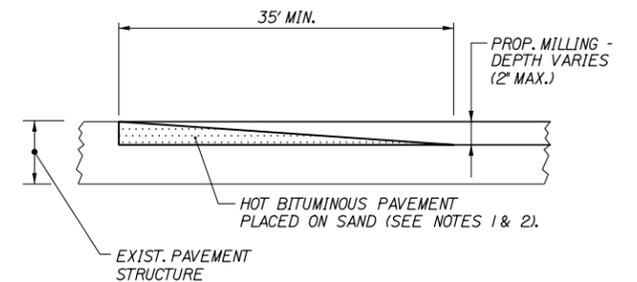
3 OF 69

Date: 1/22/2015



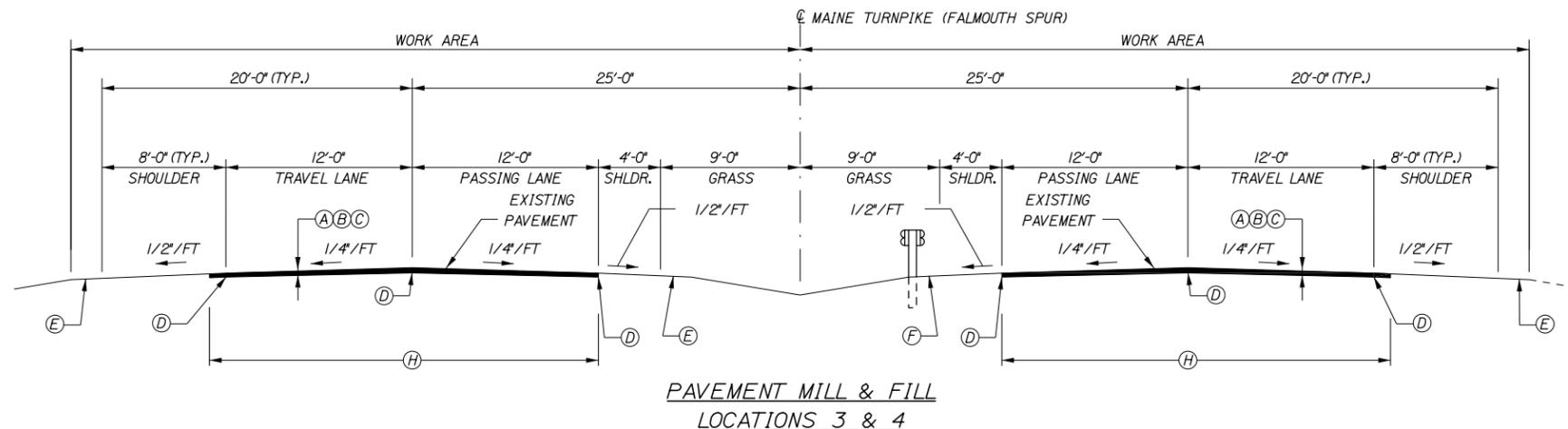
**PAVEMENT MILL & FILL
LOCATIONS 1 & 2**

NOTES:
 1. THE LONGITUDINAL (2") JOINT BETWEEN LANES 1 AND 2 DURING THE MILLING PROCESS SHALL RECEIVE A 45° MILLED EDGE.
 2. THE LONGITUDINAL (2") JOINTS LEFT AT INTERCHANGES SHALL RECEIVE A ONE FOOT WIDE WEDGE OF HMA.



TEMPORARY BITUMINOUS RAMP

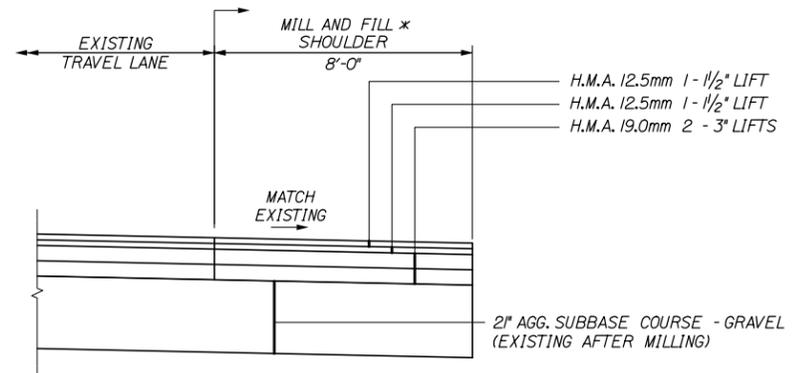
NOTES:
 1. HOT MIX ASPHALT FOR TEMPORARY RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO HOT MIX ASPHALT 12.5 mm.
 2. REMOVAL OF TEMP. BITUMINOUS RAMPS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCIDENTAL TO HOT MIX ASPHALT 12.5 mm.



**PAVEMENT MILL & FILL
LOCATIONS 3 & 4**

- PAVEMENT LEGEND**
- (A) = 1/2" HOT MIX ASPHALT, 12.5 mm NOMINAL MAXIMUM SIZE
 - (B) = 1/2" HOT MIX ASPHALT SHIMMING
 - (C) = MILLING DEPTH VARIES AS CONTROLLED BY CROSS SLOPE
 - (D) = HOT RUBBERIZED ASPHALT (SS-S-140IC) JOINT
 - (E) = BERM DROPOFF CORRECTION - GRINDINGS (SEE DETAIL A, SHEET P-2)
 - (F) = BERM DROPOFF CORRECTION - GRINDINGS (SEE DETAIL B, SHEET P-2)
 - (G) = LIMITS OF MILL AND FILL (28'-2")
 - (H) = LIMITS OF MILL AND FILL (24'-4")

NOTES:
 1. A COATING OF HOT RUBBERIZED ASPHALT SS-S-140IC SHALL BE APPLIED TO ALL TRANSVERSE BUTT JOINTS AND LONGITUDINAL JOINTS.
 2. BITUMINOUS TACK COAT IS REQUIRED BETWEEN EXISTING PAVEMENT AND HMA, 12.5 MM, OR SHIM; AND BETWEEN SHIM AND HMA, 12.5 MM.
 3. THE LONGITUDINAL (2") JOINT BETWEEN LANES 1 AND 2 DURING THE MILLING PROCESS SHALL RECEIVE A 45° MILLED EDGE.
 4. THE LONGITUDINAL (2") JOINTS LEFT AT INTERCHANGES SHALL RECEIVE A TEMPORARY ONE FOOT WIDE WEDGE OF HMA.



**PROPOSED FULL DEPTH SHOULDER (350')
SOUTHBOUND OFF RAMP EXIT 52**

* RESIDENT TO FIELD LOCATE 350'.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	Checked	By	Date
JRL	01/15	GJO	GJO	01/15
Drawn	MPC	In Charge of	SRT	01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

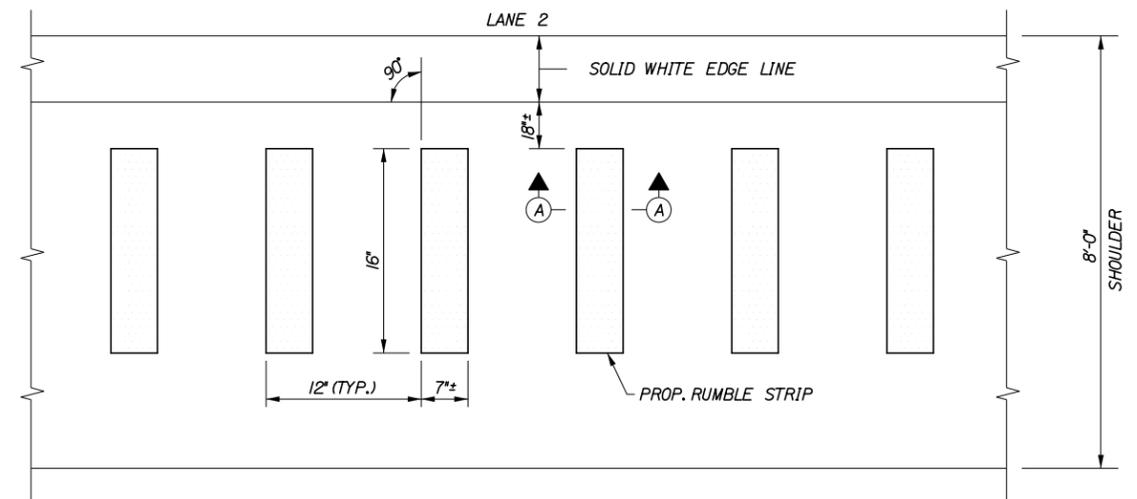
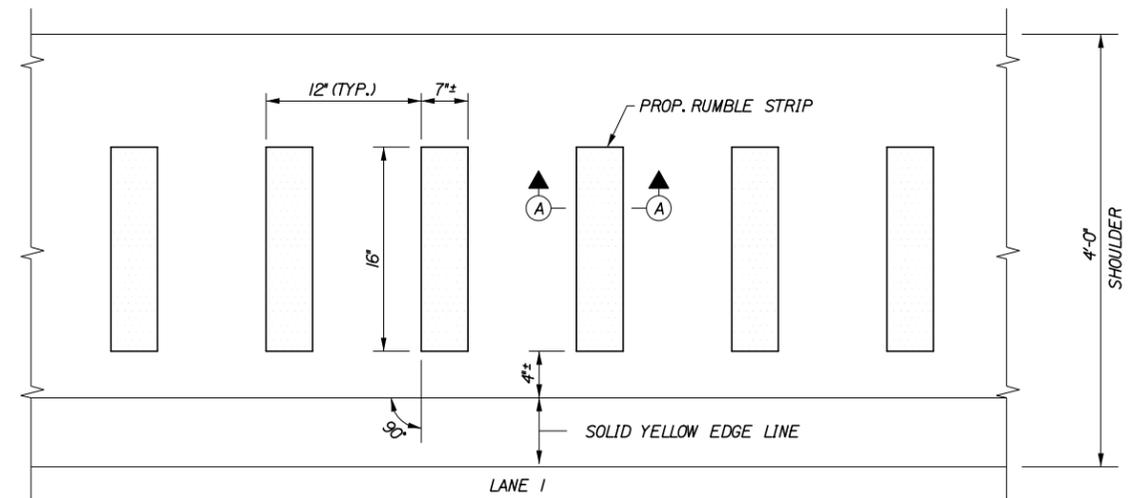
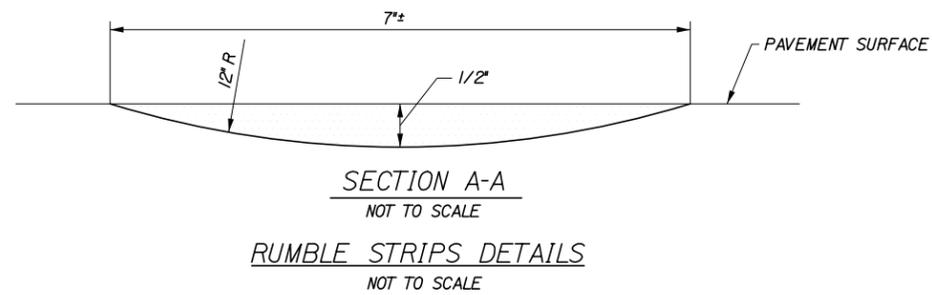
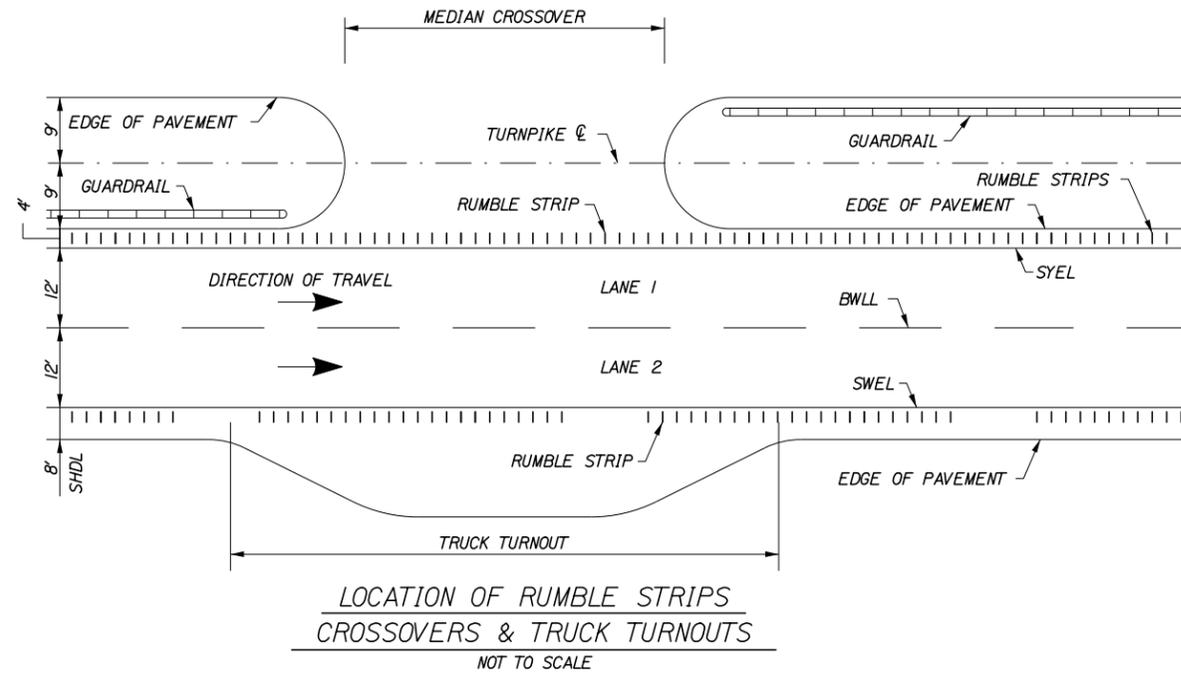
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

**PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS**

TYPICAL SECTIONS
LOCATIONS 1 & 2

SHEET NUMBER: P-1
CONTRACT: 2015.01
4 OF 69

Date: 1/22/2015



NOTES:

1. INSTALL LANE 2 RUMBLE STRIPS WITH A 20' GAP EVERY 100'. (I.E. 80' OF RUMBLE STRIP AND 20' OF NO RUMBLE STRIP; REPEAT...)
2. LANE 1 RUMBLE STRIPS NEEDED FOR MM 51.2 TO MM 54.5.
3. SEE APPENDIX A FOR ADDITIONAL RUMBLE STRIP LOCATIONS FOR LANES 1 AND 2.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	Checked	Date
JRL	01/15	GJO	01/15
Drawn	Date	In Charge of	Date
MPC	01/15	SRT	01/15

MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567

THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS

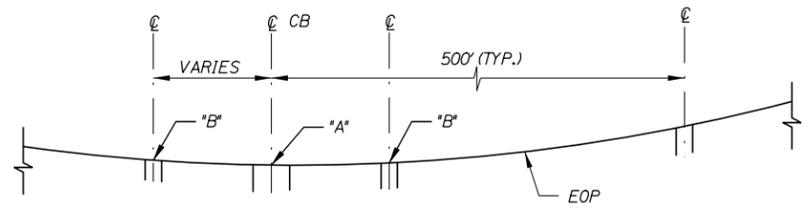
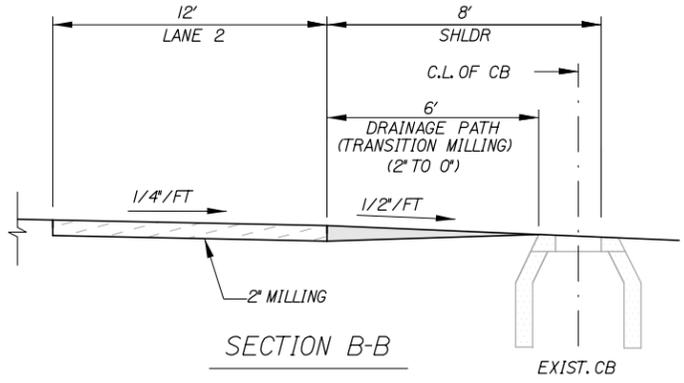
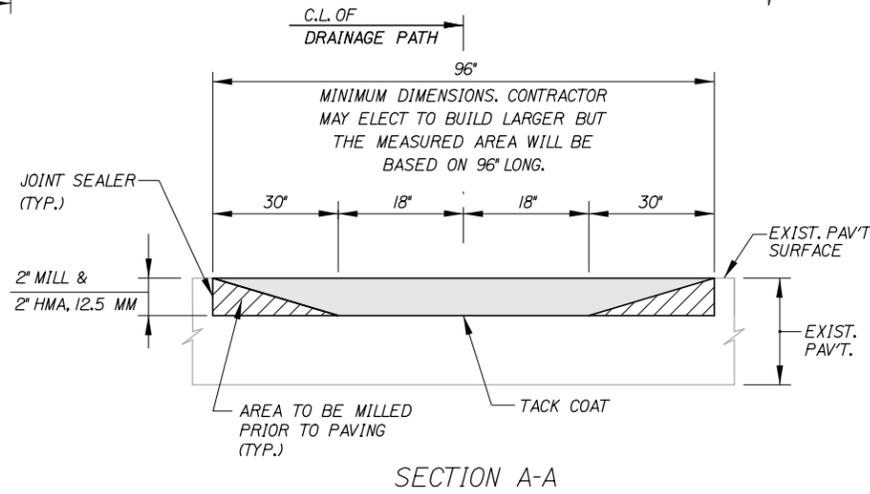
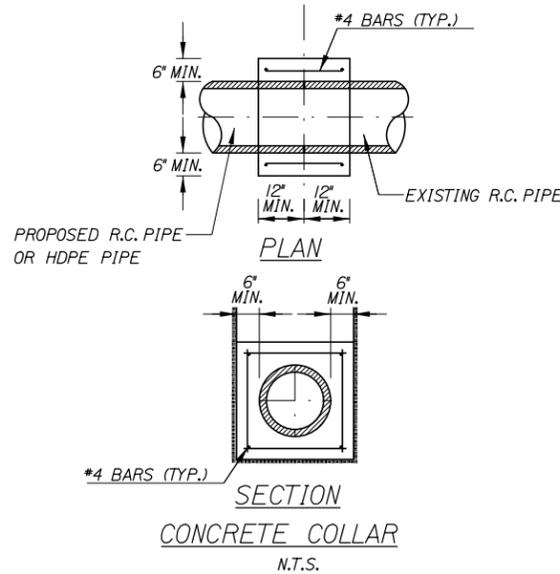
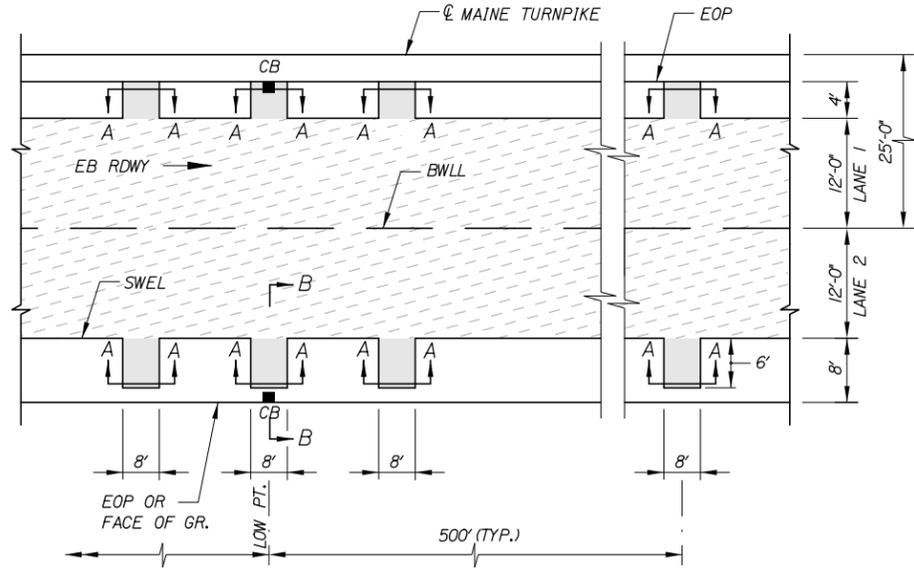
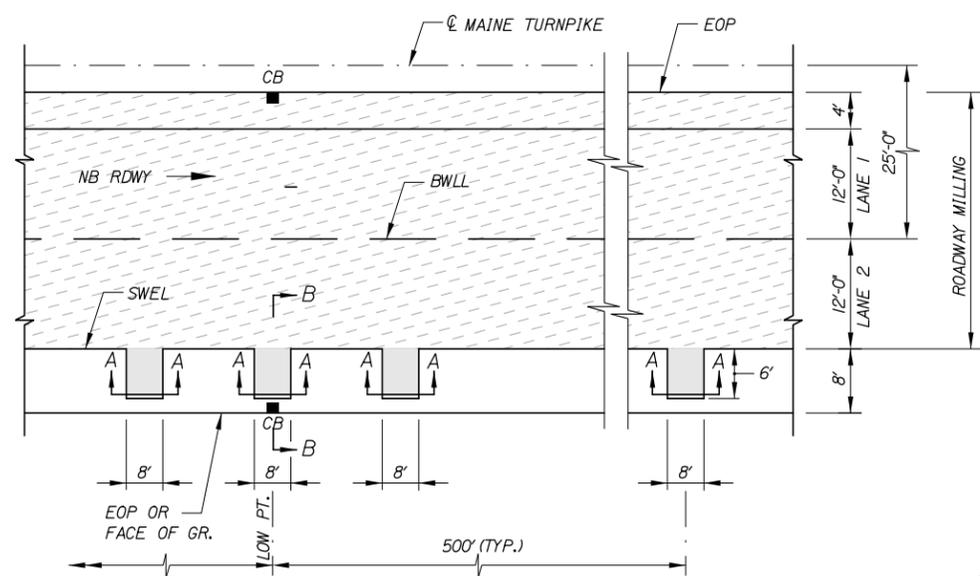
MISCELLANEOUS DETAILS 1

SHEET NUMBER: P-4

CONTRACT: 2015.01

7 OF 69

Date: 1/22/2015



DRAINAGE PATH DETAILS

LEGEND

- = DRAINAGE PATH MILLING
- = ROADWAY MILLING

NOTES:

1. POINT "B" IS 1" HIGHER THAN POINT "A".
2. DRAINAGE PATH REQUIRED AT ALL LOW POINTS.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	Checked	Date
JRL	01/15	GJO	01/15
MPC	01/15	SRT	01/15

MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567

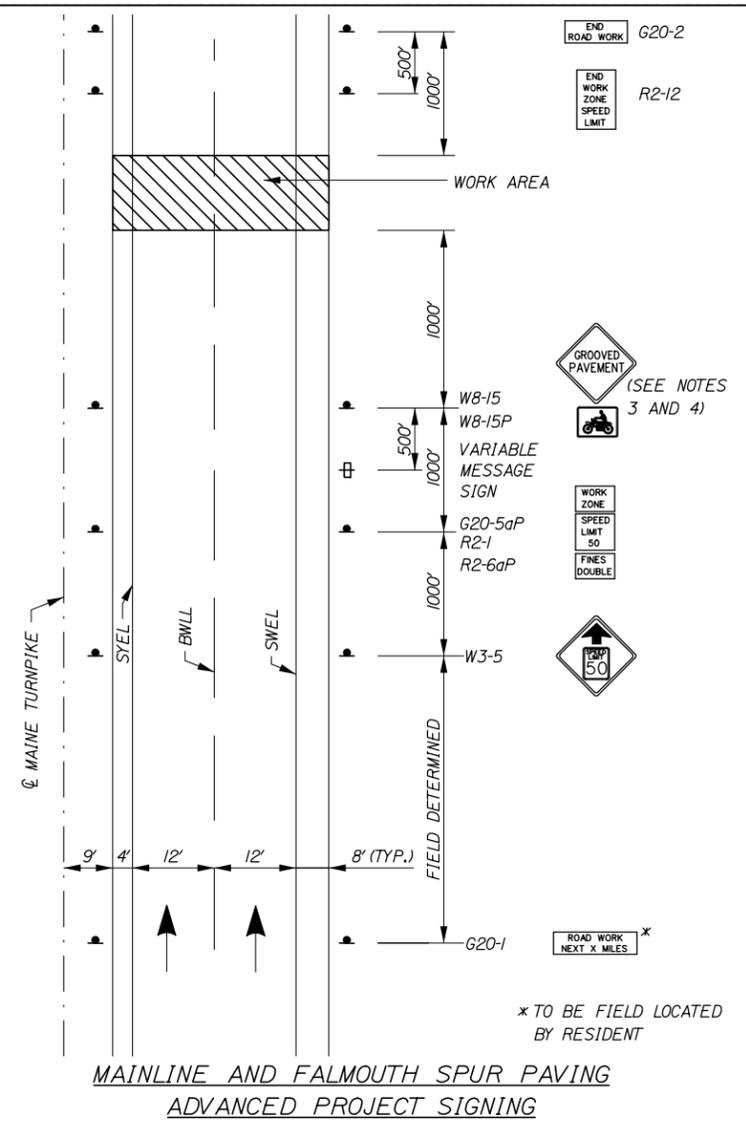
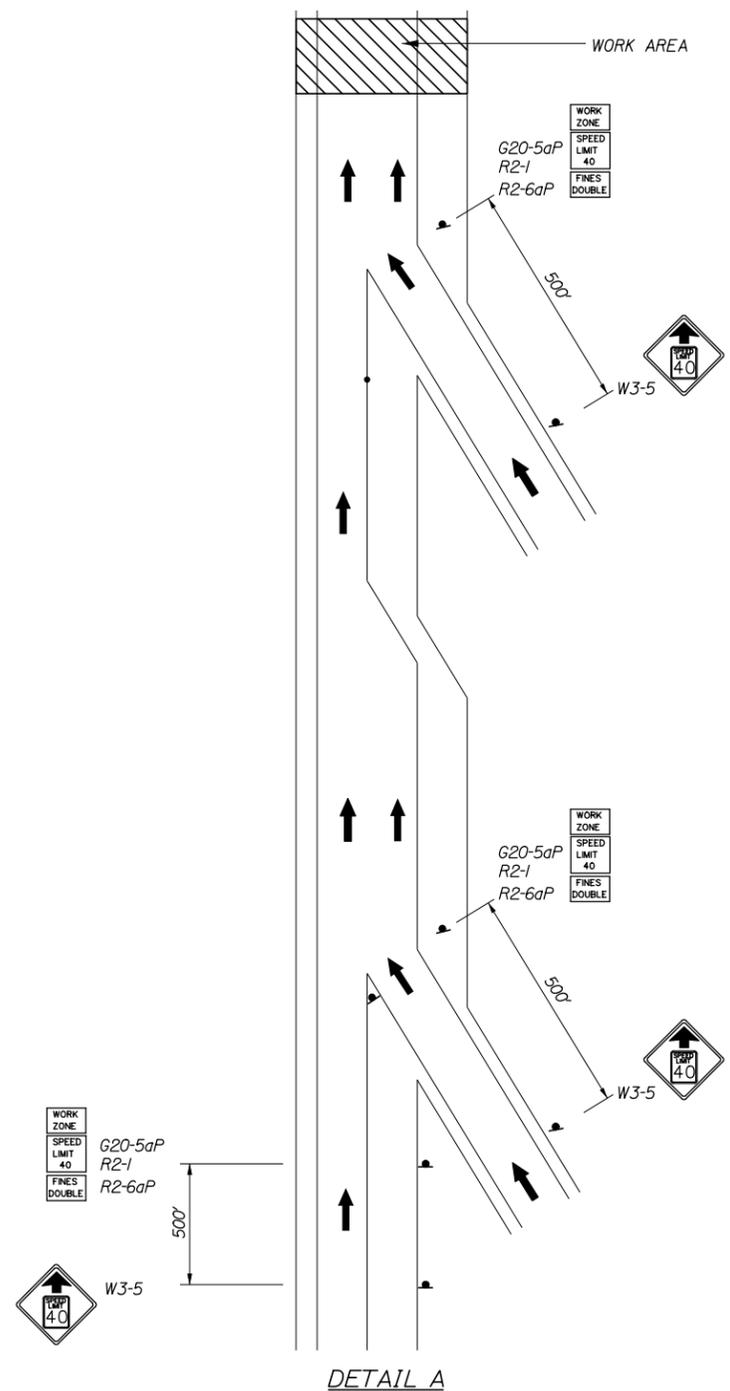
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
MISCELLANEOUS DETAILS 2

SHEET NUMBER: P-5
CONTRACT: 2015.01
8 OF 69

Date: 1/22/2015



- NOTES:**
1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
 2. ALL SIGNS ARE TO BE MOUNTED ON NCHRP 350 APPROVED POSTS.
 3. UNCOVER W8-15 AND W8-15P SIGNS WHEN PAVEMENT IS MILLED OR AS DIRECTED BY THE RESIDENT.
 4. PROVIDE W8-15 AND W8-15P AT ALL MILLED LOCATIONS.
 5. SIGNS TO BE INSTALLED ON US ROUTE 1 NB (FALMOUTH) BETWEEN BUCKNAM ROAD AND THE TURNPIKE FALMOUTH SPUR WESTBOUND RAMP. COORDINATE PLACEMENT WITH RESIDENT.



Filename: 009_Traffic_Control.dgn

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:



	By	Date		By	Date
Designed	JRL	01/15	Checked	GJO	01/15
Drawn	MPC	01/15	In Charge of	SRT	01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



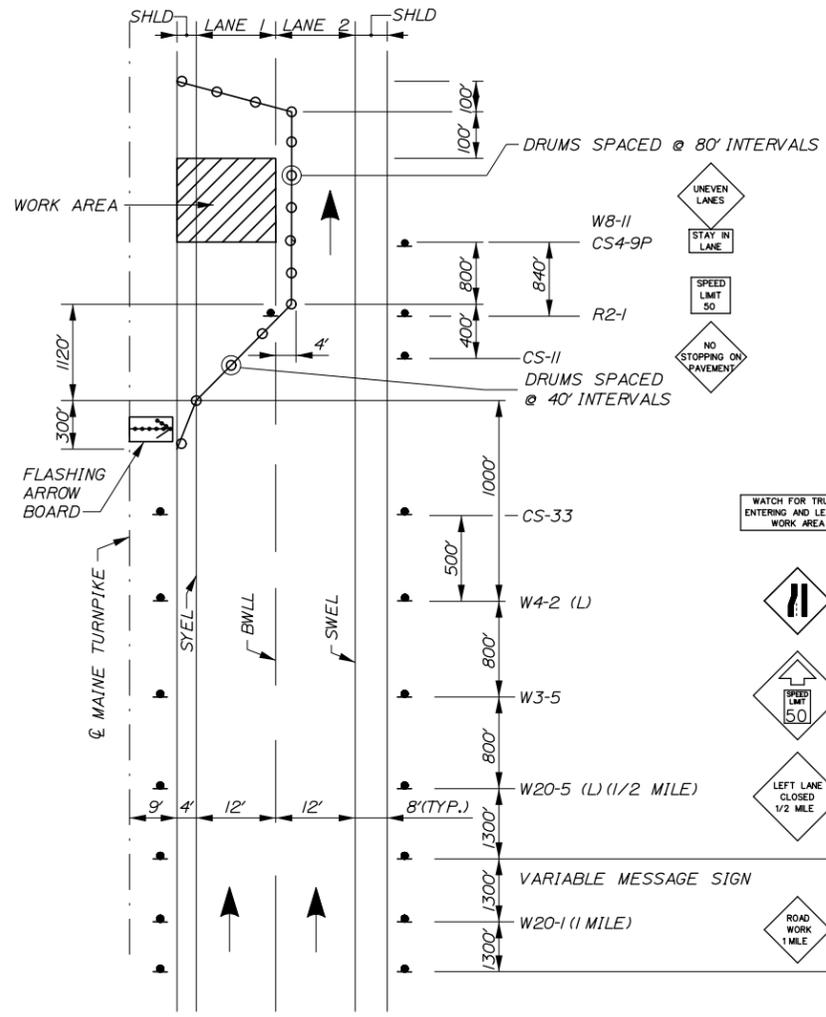
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 TRAFFIC CONTROL

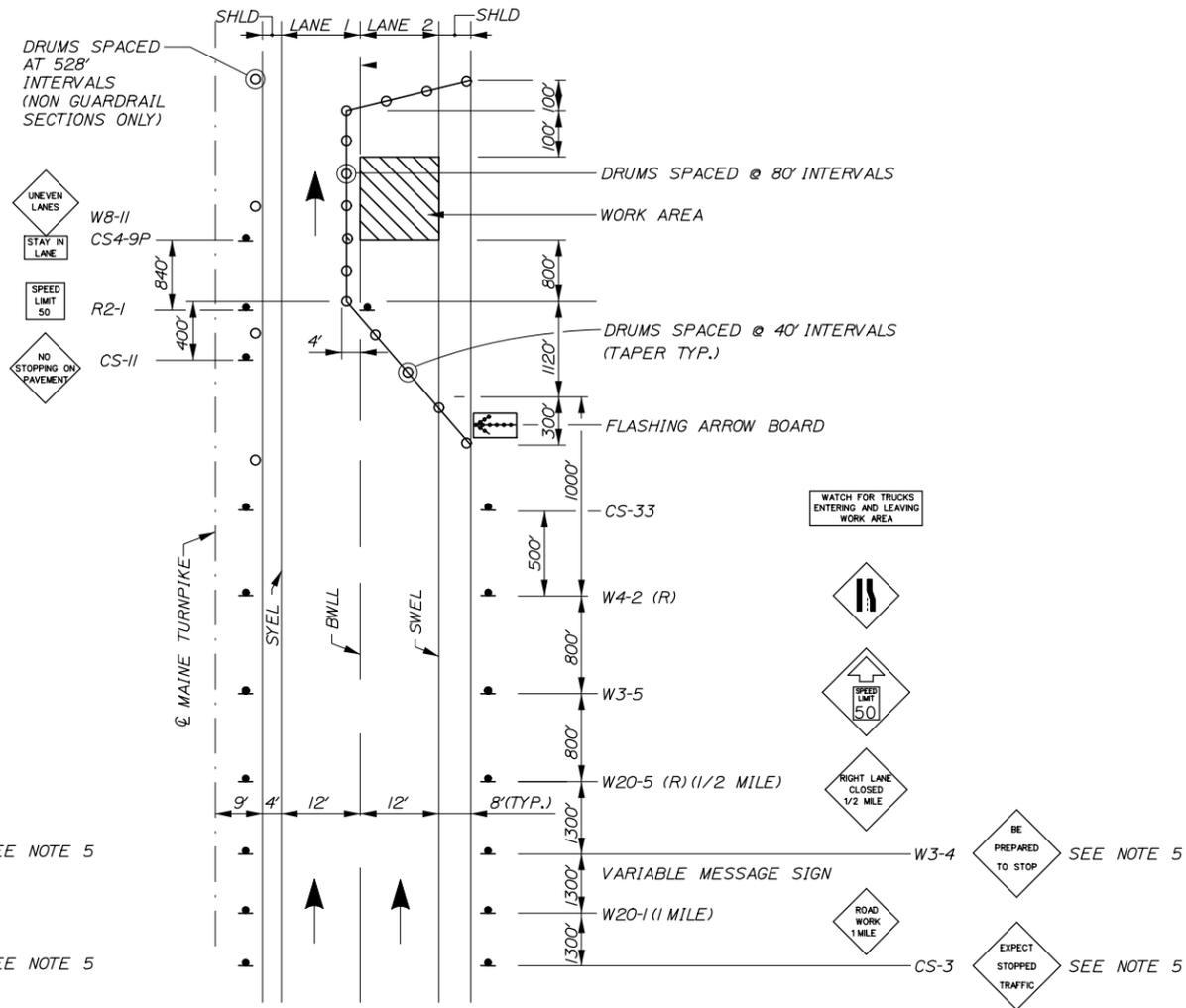
SHEET NUMBER: T-1
 CONTRACT: 2015.01
 9 OF 69

Date: 1/22/2015



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, CLEAR ZONE IMPROVEMENTS, MEDIAN CROSSOVER CONSTRUCTION, 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 T-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-3 AND W3-4 SIGNS IMMEDIATELY AFTER THE SCHEDULED STOPPAGES ARE COMPLETE.

Filename: 010_LaneClosure1.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
			
By	Date	By	Date
Designed	JRL 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION CLEAR ZONE IMPROVEMENTS

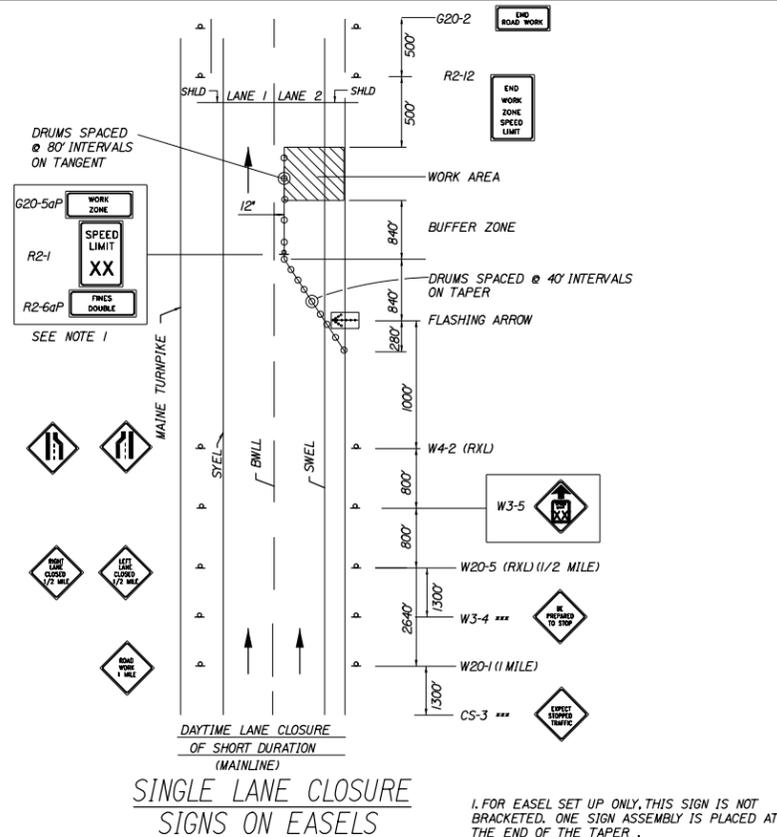
TRAFFIC CONTROL LANE CLOSURE DETAILS 1

SHEET NUMBER: T-2

CONTRACT: 2015.01

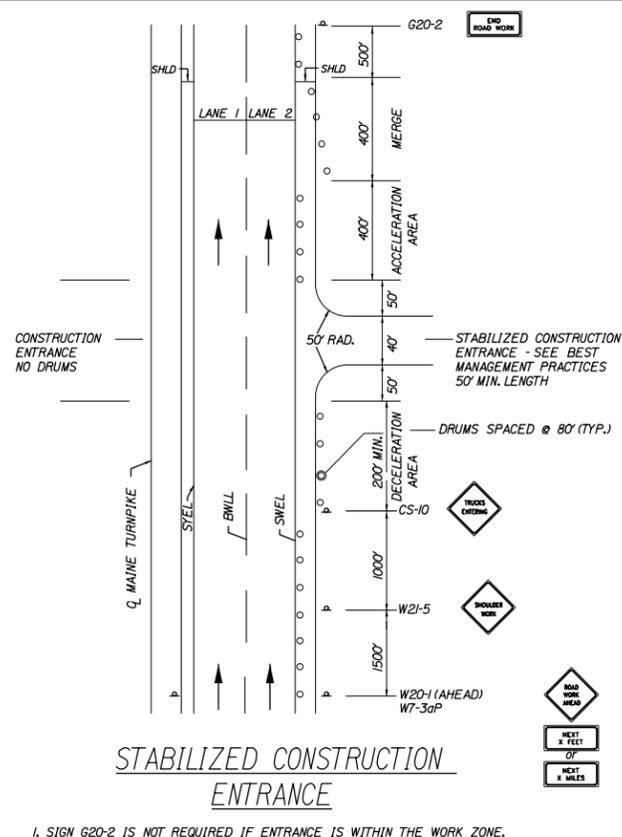
10 OF 69

Date: 1/22/2015



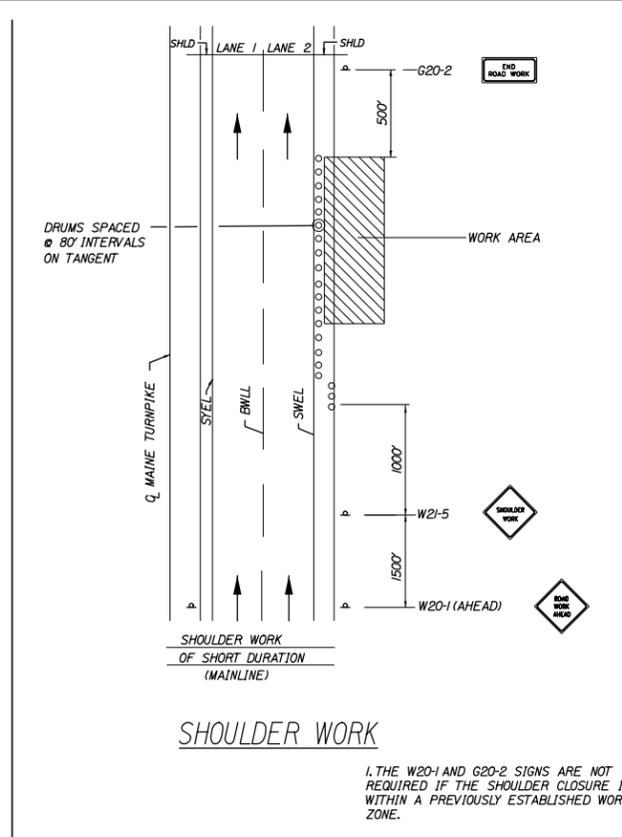
SINGLE LANE CLOSURE SIGNS ON EASELS

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



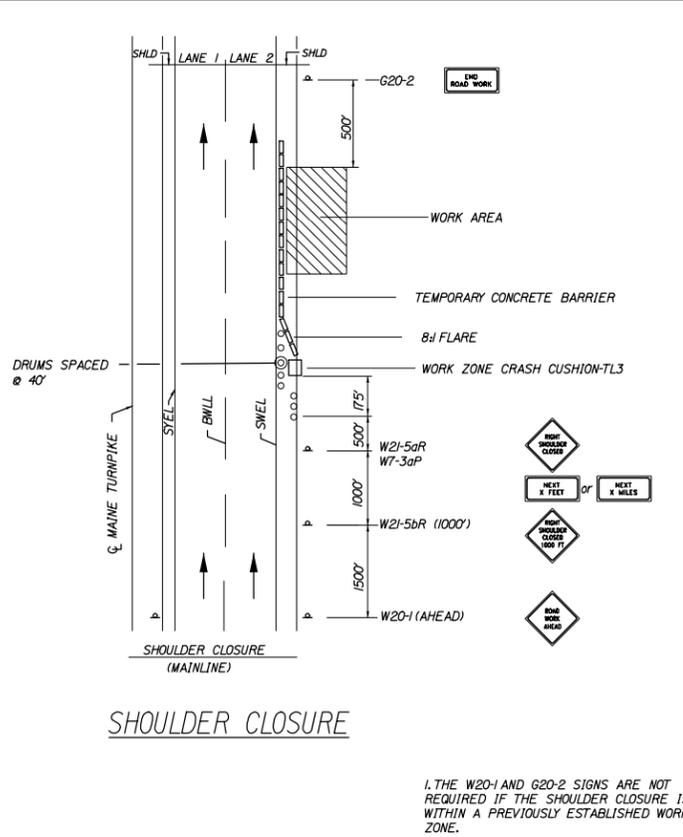
STABILIZED CONSTRUCTION ENTRANCE

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



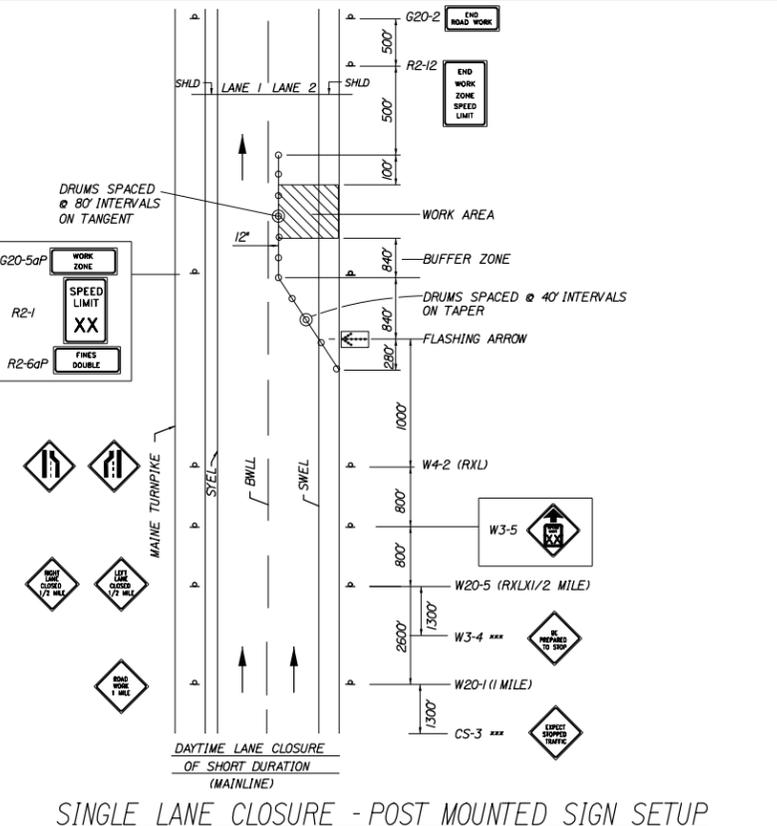
SHOULDER WORK

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

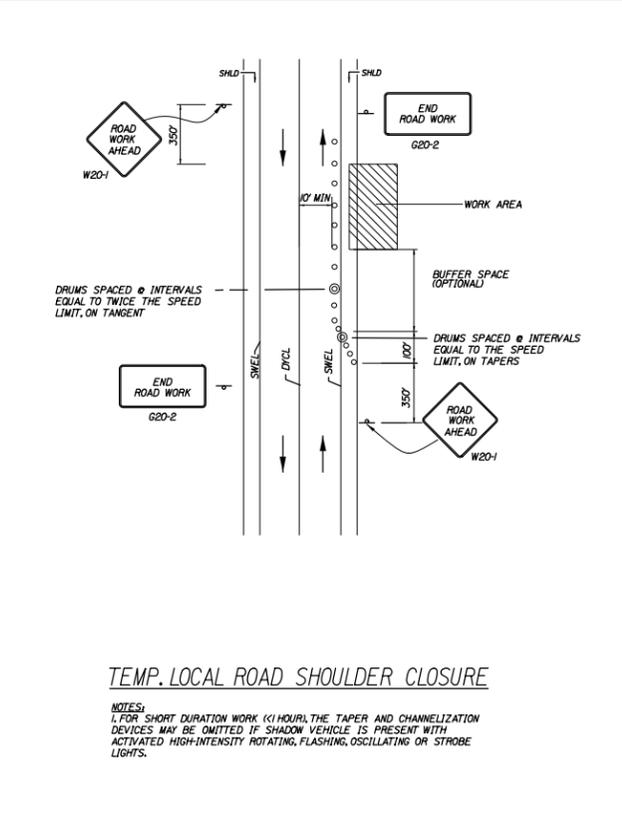


SHOULDER CLOSURE

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

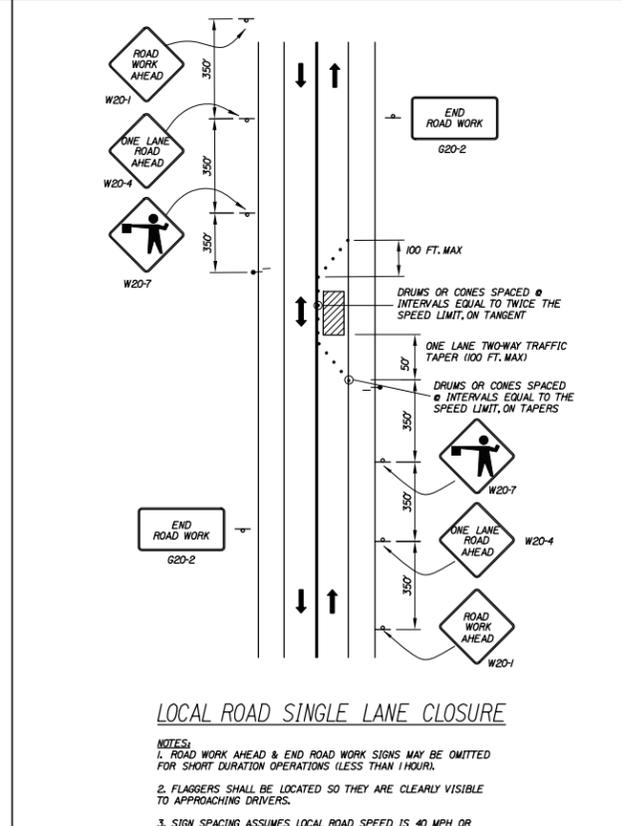


SINGLE LANE CLOSURE - POST MOUNTED SIGN SETUP



TEMP. LOCAL ROAD SHOULDER CLOSURE

NOTES:
1. FOR SHORT DURATION WORK (<1 HOUR), THE TAPER AND CHANNELIZATION DEVICES MAY BE OMITTED IF SHADOW VEHICLE IS PRESENT WITH ACTIVATED HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.



LOCAL ROAD SINGLE LANE CLOSURE

NOTES:
1. ROAD WORK AHEAD & END ROAD WORK SIGNS MAY BE OMITTED FOR SHORT DURATION OPERATIONS (LESS THAN 1 HOUR).
2. FLAGGERS SHALL BE LOCATED SO THEY ARE CLEARLY VISIBLE TO APPROACHING DRIVERS.
3. SIGN SPACING ASSUMES LOCAL ROAD SPEED IS 40 MPH OR LESS.

- GENERAL MAINTENANCE OF TRAFFIC NOTES:**
- ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES 2002 EDITION, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S GENERAL AND SPECIAL PROVISIONS.
 - ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION. NOTE THERE IS A 2009 EDITION OF MUTCD.
 - THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL. DURING CONSTRUCTION, SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD. ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
 - THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD. PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING PAVEMENT MARKINGS.
 - 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.
 - ALL GEOMETRIC INFORMATION FOR ALL PHASES OF TRAFFIC CONTROL WILL BE SUPPLIED TO THE CONTRACTOR AFTER AWARD.

ABBREVIATIONS FOR ALL M.O.T. PLANS
 BWLL = BROKEN WHITE LANE LINE
 SWEL = SOLID WHITE EDGE LINE
 SYEL = SOLID YELLOW EDGE LINE
 TBWLL = TEMPORARY BROKEN WHITE LANE LINE
 TSWEL = TEMPORARY SOLID WHITE EDGE LINE
 TSYEL = TEMPORARY SOLID YELLOW EDGE LINE

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	By	Date
Designed	JRL 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 TRAFFIC CONTROL
 LANE CLOSURE DETAILS 2

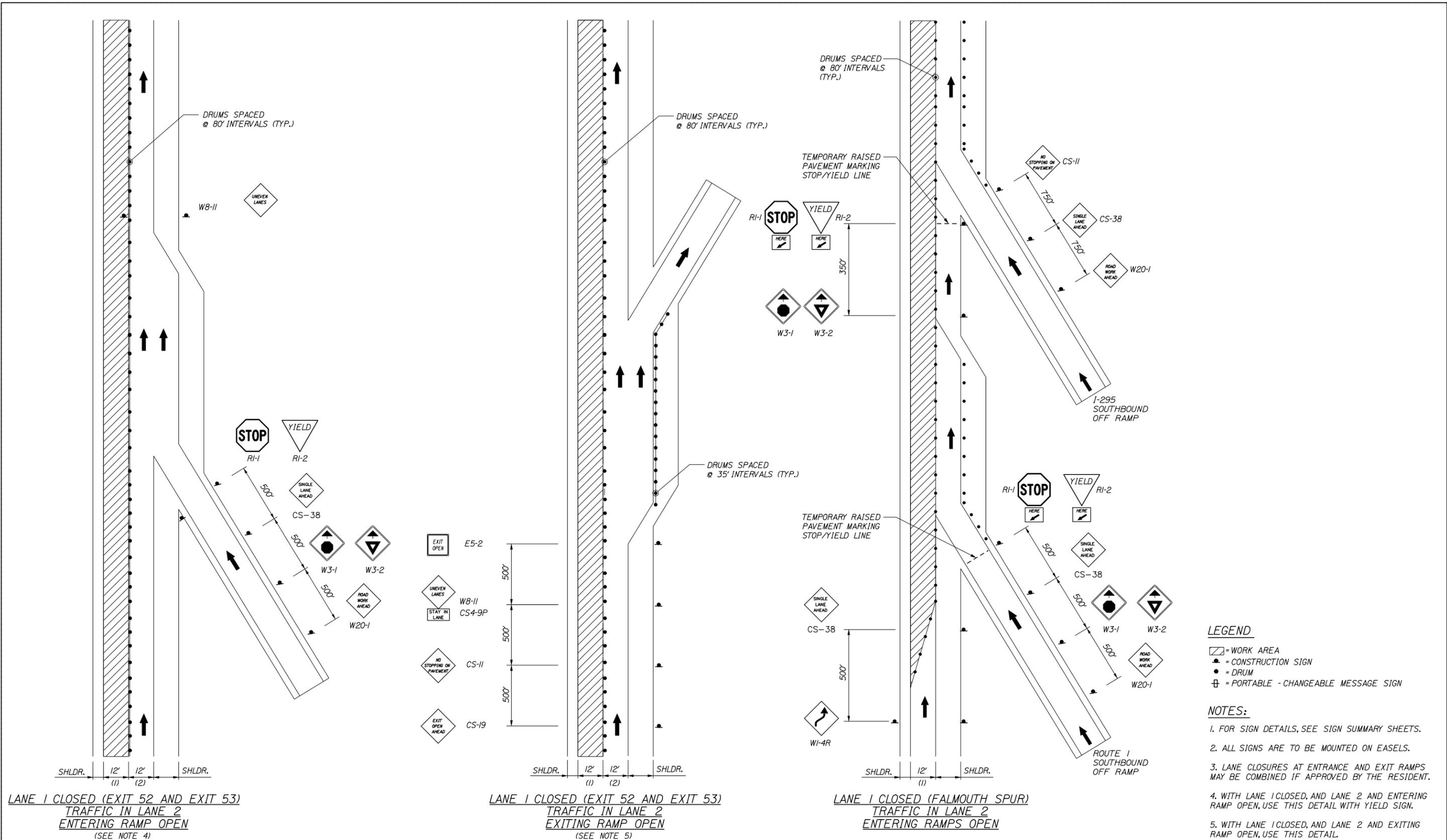
SHEET NUMBER: T-3

CONTRACT: 2015.01

11 OF 69

Filename: 011_TCPDetails02.dgn

Date: 1/22/2015



- LEGEND**
- = WORK AREA
 - = CONSTRUCTION SIGN
 - = DRUM
 - = PORTABLE - CHANGEABLE MESSAGE SIGN

- NOTES:**
1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
 2. ALL SIGNS ARE TO BE MOUNTED ON EASELS.
 3. LANE CLOSURES AT ENTRANCE AND EXIT RAMPS MAY BE COMBINED IF APPROVED BY THE RESIDENT.
 4. WITH LANE 1 CLOSED, AND LANE 2 AND ENTERING RAMP OPEN, USE THIS DETAIL WITH YIELD SIGN.
 5. WITH LANE 1 CLOSED, AND LANE 2 AND EXITING RAMP OPEN, USE THIS DETAIL.

LANE 1 CLOSED (EXIT 52 AND EXIT 53)
 TRAFFIC IN LANE 2
 ENTERING RAMP OPEN
 (SEE NOTE 4)

LANE 1 CLOSED (EXIT 52 AND EXIT 53)
 TRAFFIC IN LANE 2
 EXITING RAMP OPEN
 (SEE NOTE 5)

LANE 1 CLOSED (FALMOUTH SPUR)
 TRAFFIC IN LANE 2
 ENTERING RAMP OPEN

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	Checked	Date
JRL	01/15	GJO	01/15
Drawn	MPC	In Charge of	SRT
	01/15		01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

THE GOLD STAR MEMORIAL HIGHWAY

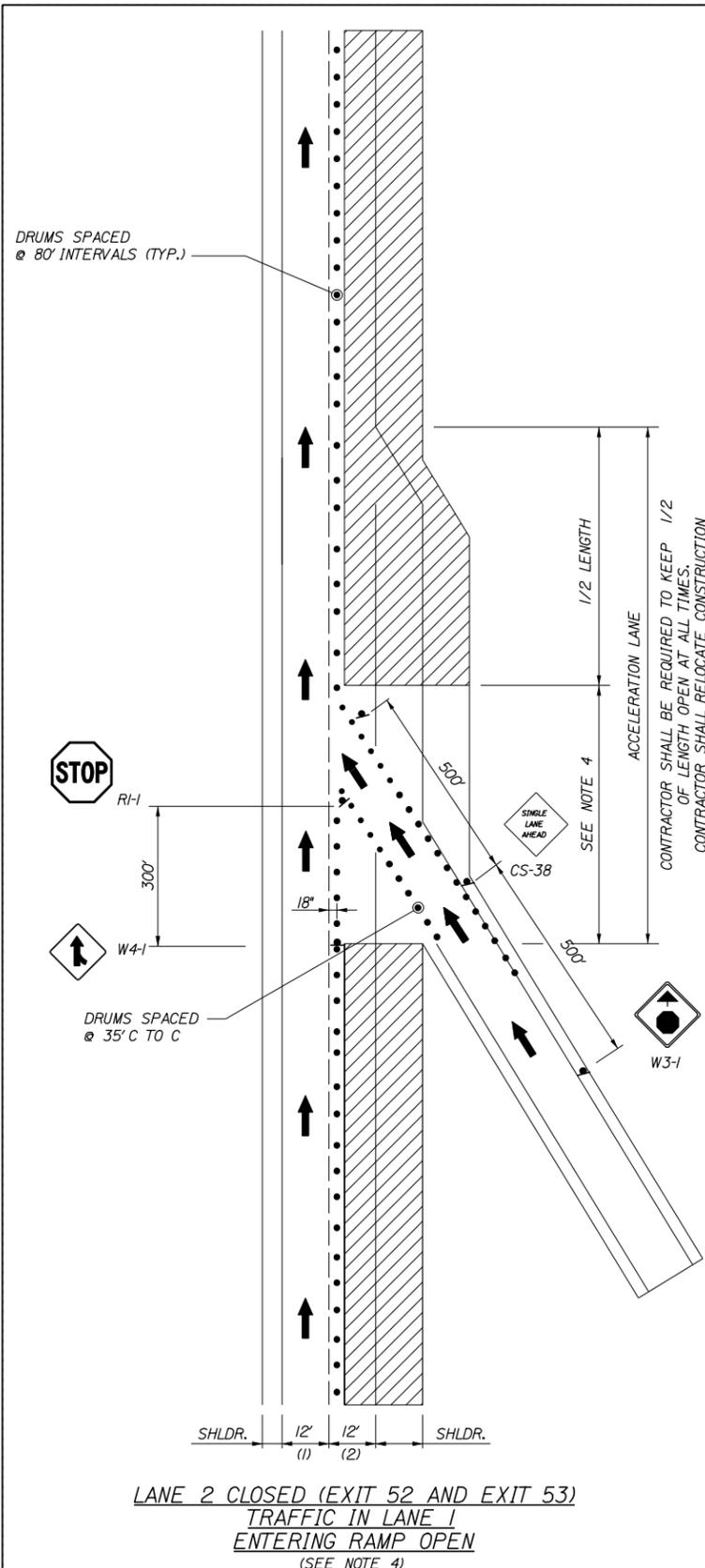
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 TRAFFIC CONTROL
 LANE CLOSURE DETAILS 3

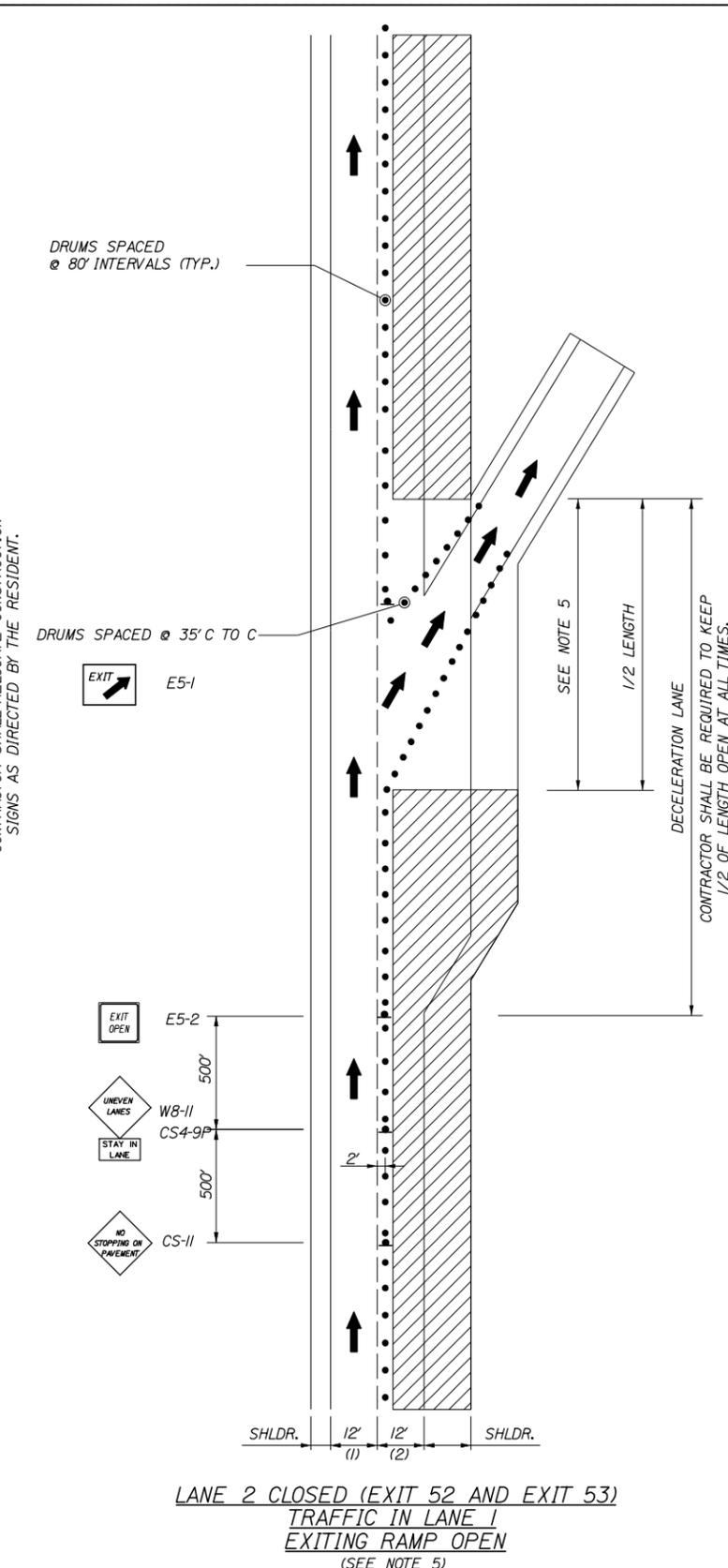
SHEET NUMBER: T-4
 CONTRACT: 2015.01
 12 OF 69

Filename: 012_LaneClosure3.dgn

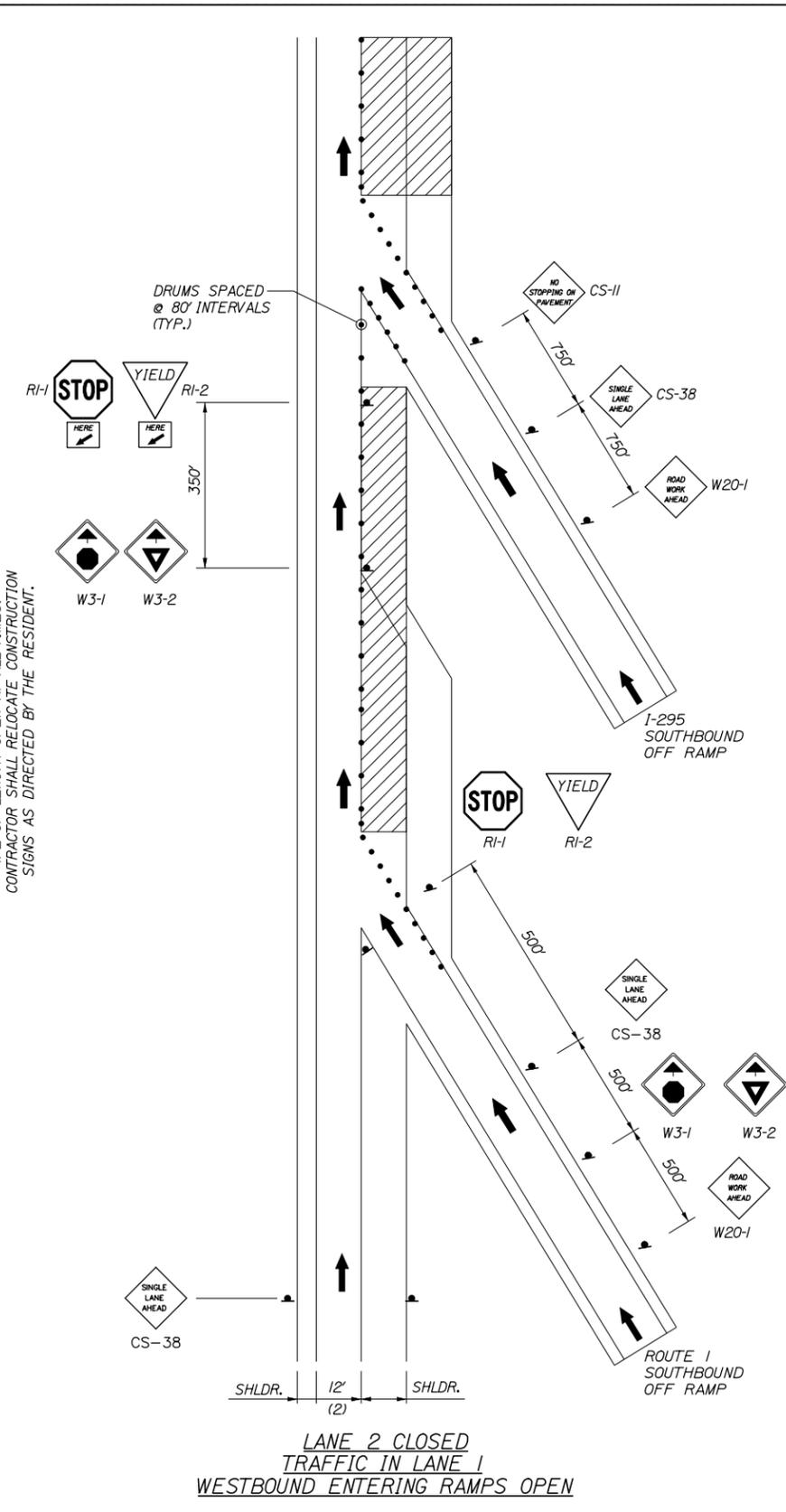
Date: 1/22/2015



LANE 2 CLOSED (EXIT 52 AND EXIT 53)
TRAFFIC IN LANE 1
ENTERING RAMP OPEN
 (SEE NOTE 4)



LANE 2 CLOSED (EXIT 52 AND EXIT 53)
TRAFFIC IN LANE 1
EXITING RAMP OPEN
 (SEE NOTE 5)



LANE 2 CLOSED
TRAFFIC IN LANE 1
WESTBOUND ENTERING RAMP OPEN

- LEGEND**
- = WORK AREA
 - = CONSTRUCTION SIGN
 - = DRUM
 - = PORTABLE - CHANGEABLE MESSAGE SIGN
- NOTES:**
1. FOR SIGN DETAILS, SEE SIGN SUMMARY SHEETS.
 2. ALL SIGNS ARE TO BE MOUNTED ON EASELS.
 3. LANE CLOSURES AT ENTRANCE AND EXIT RAMP MAY BE COMBINED IF APPROVED BY THE RESIDENT.
 4. WITH LANE 2 CLOSED, AND LANE 1 AND ENTERING RAMP OPEN, USE THIS DETAIL WITH STOP SIGN.
 5. WITH LANE 2 CLOSED, AND LANE 1 AND EXITING RAMP OPEN, USE THIS DETAIL.

Filename: 013_LaneClosure5.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
By	Date	By	Date
Designed	JRL 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

THE GOLD STAR MEMORIAL HIGHWAY

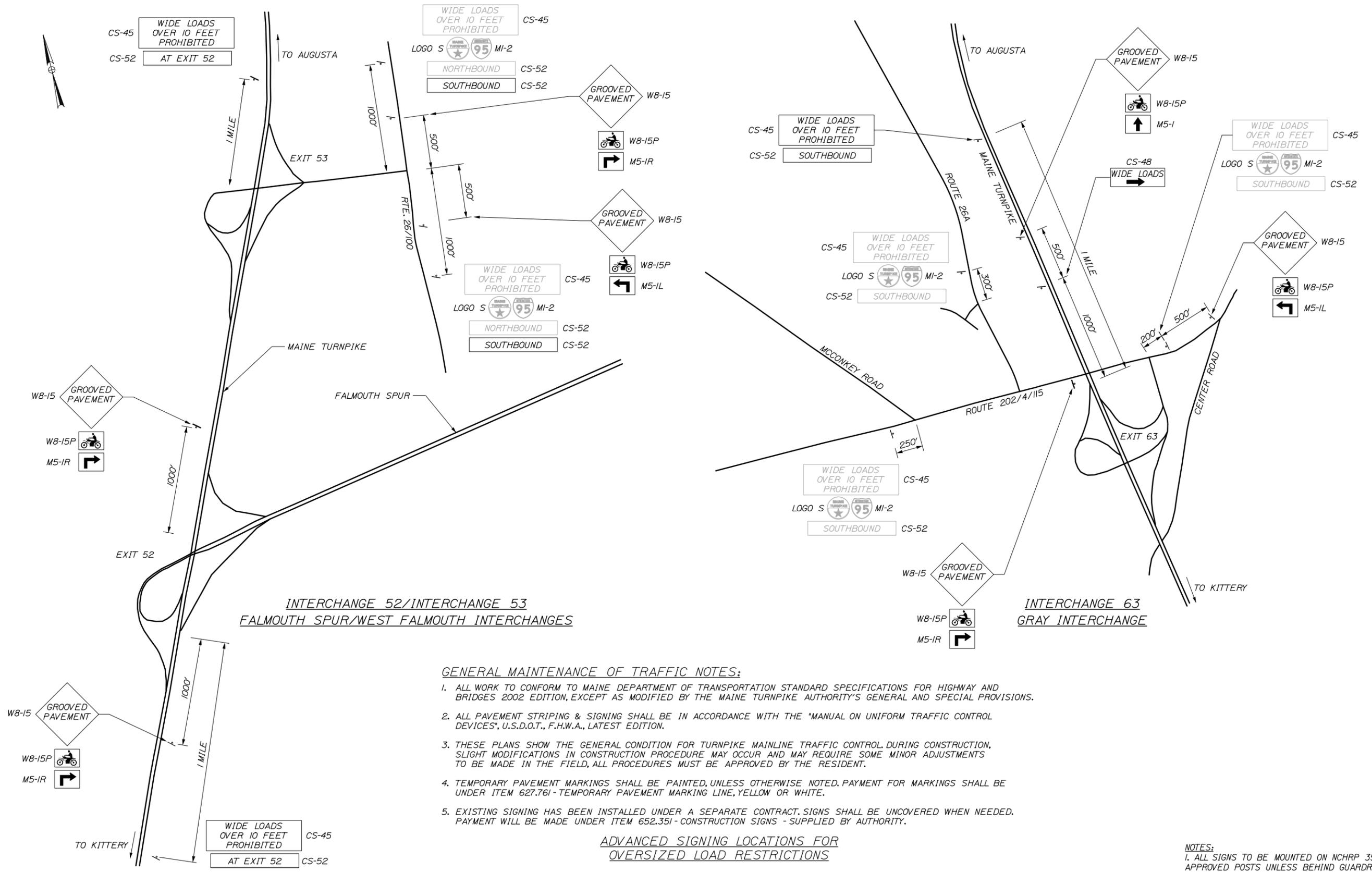
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 TRAFFIC CONTROL
 LANE CLOSURE DETAILS 5

SHEET NUMBER: T-5
 CONTRACT: 2015.01
 13 OF 69

Date: 1/22/2015

Filename: 014_AdvanceWarning.dgn



INTERCHANGE 52/INTERCHANGE 53
FALMOUTH SPUR/WEST FALMOUTH INTERCHANGES

INTERCHANGE 63
GRAY INTERCHANGE

GENERAL MAINTENANCE OF TRAFFIC NOTES:

1. ALL WORK TO CONFORM TO MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES 2002 EDITION, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S GENERAL AND SPECIAL PROVISIONS.
2. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
3. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL, DURING CONSTRUCTION, SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MAY REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD, ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.
4. TEMPORARY PAVEMENT MARKINGS SHALL BE PAINTED, UNLESS OTHERWISE NOTED. PAYMENT FOR MARKINGS SHALL BE UNDER ITEM 627.761 - TEMPORARY PAVEMENT MARKING LINE, YELLOW OR WHITE.
5. EXISTING SIGNING HAS BEEN INSTALLED UNDER A SEPARATE CONTRACT. SIGNS SHALL BE UNCOVERED WHEN NEEDED. PAYMENT WILL BE MADE UNDER ITEM 652.351 - CONSTRUCTION SIGNS - SUPPLIED BY AUTHORITY.

ADVANCED SIGNING LOCATIONS FOR
OVERSIZED LOAD RESTRICTIONS

NOTES:
1. ALL SIGNS TO BE MOUNTED ON NCHRP 350 APPROVED POSTS UNLESS BEHIND GUARDRAIL.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	Checked	Date
JRL	01/15	GJO	01/15
Drawn	MPC	In Charge of	SRT
	01/15		01/15

MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567

	THE GOLD STAR MEMORIAL HIGHWAY
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.	

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
MAINTENANCE OF TRAFFIC
NOTES AND MISCELLANEOUS DETAILS

SHEET NUMBER: T-6
CONTRACT: 2015.01
14 OF 69

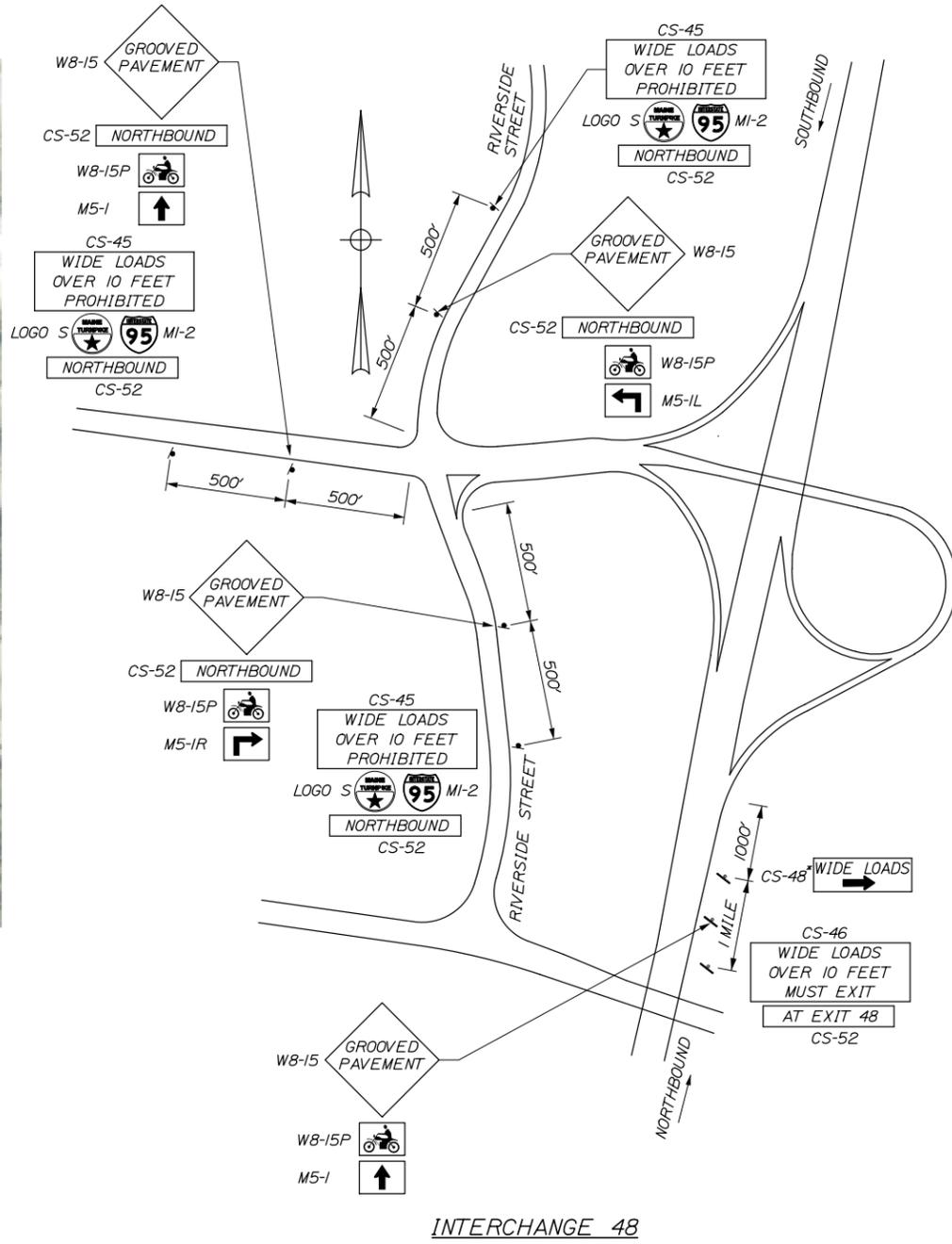
Date: 1/22/2015



WIDE LOAD SIGN PACKAGE
 ONE SIGN PACKAGE SHALL BE INSTALLED AT ALL THREE NOTED LOCATIONS

WIDE LOAD SIGN PACKAGE LOCATIONS
 1" = 250'

NOTE: FINAL SIGN PACKAGE LOCATIONS TO BE DETERMINED BY THE RESIDENT AND COORDINATED WITH MAINE DOT.



INTERCHANGE 48

Filename: 015_WideLoad.dgn



No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: Robert J. Driscoll, P.E.

	By	Date	Checked	By	Date
Designed	JRL	01/15	Checked	GJO	01/15
Drawn	MPC	01/15	In Charge of	SRT	01/15

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

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 MAINTENANCE OF TRAFFIC
 WIDE LOAD SIGNING

SHEET NUMBER: T-7
 15 OF 69

CONTRACT: 2015.01

Date: 1/22/2015

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
G20-1 (8) (5)	48"	24"		TEXT DIMENSIONS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			4	COLORS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			8.00 (32)
G20-2	48"	24"					10				8.00 (80)
G20-5aP	48"	24"					32				8.00 (256)
R2-1 (50) (40)	48"	60"					28 4				20.00 (560) (80)
R2-6aP	48"	24"		6" 6"	4.5"		32				8.00 (256)
MI-2	24"	24"		TEXT DIMENSIONS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			8				4.00 (32)
M5-1L	36"	24"					3				6.00 (18)
M5-1R	36"	24"					5				6.00 (30)
M5-1	36"	24"					4				6.00 (24)
RI-1	48"	48"					2	RED	WHITE		16.00 (32)
RI-2	60"	60"	60"				2	WHITE	RED		12.50 (25)
R2-12	36"	54"		6" 6" 6" 6"	4.5" 4.5" 4.5" 4.5"		16	COLORS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			13.50 (216)
E5-1	72"	60"		TEXT DIMENSIONS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			2	ORANGE	BLACK		30.00 (60)
E5-2	48"	36"					2	ORANGE	BLACK		12.00 (24)
WI-4L	48"	48"					4	COLORS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			16.00 (64)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
WI-4R	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			4	COLORS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			16.00 (64)
W3-1	48"	48"					4	ORANGE	BLACK		16.00 (64)
W3-2a	48"	48"					4	ORANGE	BLACK		16.00 (64)
W3-4	48"	48"					8	COLORS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			16.00 (128)
W3-5 (50) (40)	48"	48"					20 4				16.00 (320) (64)
W4-2L	48"	48"					8				16.00 (128)
W4-2R	48"	48"					8				16.00 (128)
W5-4	48"	48"					4				16.00 (64)
W8-1	48"	48"					8				16.00 (128)
W8-11	48"	48"					24				16.00 (384)

Filename: 016_SignSumm1.dgn

Scale:			
No.	Revision	By	Date

Designed by:			
By	Date	By	Date
Designed	JRL 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

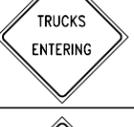
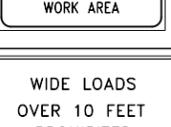
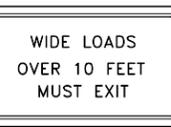
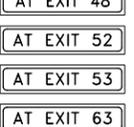
PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS

SIGN SUMMARY 1

SHEET NUMBER: T-8
CONTRACT: 2015.01
16 OF 69

Date: 1/22/2015

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
W8-15	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			18	COLORS SHALL CONFORM TO '2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT'			16.00 (288)
W8-15P	30"	24"					18				5.00 (90)
W16-2aP	30"	18"					2				3.75 (7.5)
W20-1 (1 MILE)	48"	48"					10				16.00 (160)
W20-5L (1/2 MILE) (AHEAD)	48"	48"					8 1				16.00 (128) (16)
W20-5R (1/2 MILE) (AHEAD)	48"	48"					8 1				16.00 (128) (16)
W21-5aR	48"	48"					4				16.00 (64)
W21-5aL	48"	48"					4				16.00 (64)
W21-5bR (1000 FT)	48"	48"					4				16.00 (64)
W21-5bL (1000 FT)	48"	48"					4				16.00 (64)

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
W24-1L	48"	48"					2				16.00 (32.00)
W24-1R	48"	48"					2				16.00 (32.00)
CS-3	48"	48"		6" 6"	4" 4"		8	ORANGE	BLACK		16.00 (128)
CS-10	48"	48"		7" 7"	6"		4	ORANGE	BLACK		16.00 (64)
CS-11	48"	48"		6" 6"	4" 4"		6	ORANGE	BLACK		16.00 (96)
CS-33	96"	36"		6" 6"	4" 4"		8	ORANGE	BLACK		24.00 (192)
CS-45	96"	48"		8" C 8" C 8" C	6" 6" 6"		10	ORANGE	BLACK		32.00 (320)
CS-46	96"	48"		8" C 8" C 8" C	6" 6" 6"		2	ORANGE	BLACK		32.00 (64)
CS-48	60"	36"		8" D		9"x36" @ 0"	2	ORANGE	BLACK		15.00 (30)
CS-52	96"	18"		8" C	5" 5"		7 6 4 1 1 1	ORANGE	BLACK		12.00 (84) 12.00 (72) 12.00 (48) 12.00 (12) 12.00 (12) 12.00 (12)
LOGO S	24"	24"		SEE DETAILS SHEET 18			8	SEE DETAILS SHEET 18			4.00 (32)

Filename: 017_SignSumm2.dgn

Scale:

No.	Revision	By	Date

Designed by:

By	Date	By	Date
Designed	JRL 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

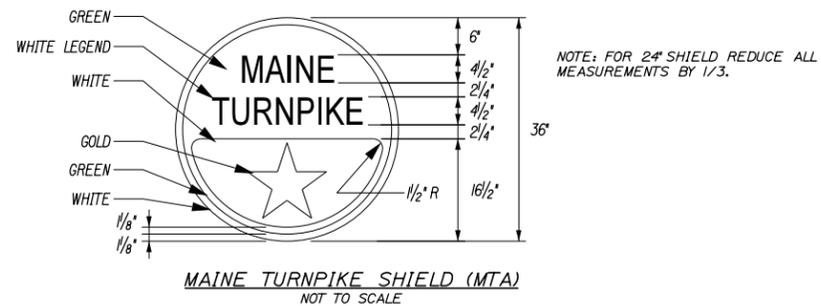
PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS

SIGN SUMMARY 2

SHEET NUMBER: T-9
 CONTRACT: 2015.01
 17 OF 69

Date: 1/22/2015

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER		
CS-53L	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT"			4	COLORS SHALL CONFORM TO "2004 EDITION - STANDARD HIGHWAY SIGNS - 2012 SUPPLEMENT"			16.00 (64)
CS-53R	48"	48"					4				16.00 (64)
CS-12	36"	18"	AHEAD				2	ORANGE	BLACK		4.50 (9)
CS-13	36"	36"	HERE 				2	ORANGE	BLACK		9.00 (18)
CS4-9P	30"	24"	STAY IN LANE				24	ORANGE	BLACK		5.00 (120)
W13-4P	24"	24"	ON RAMP				4	ORANGE	BLACK		4.00 (16)



Scale:

No.	Revision	By	Date

Designed by:

By	Date	By	Date
Designed	JRL 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

	THE GOLD STAR MEMORIAL HIGHWAY
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.	

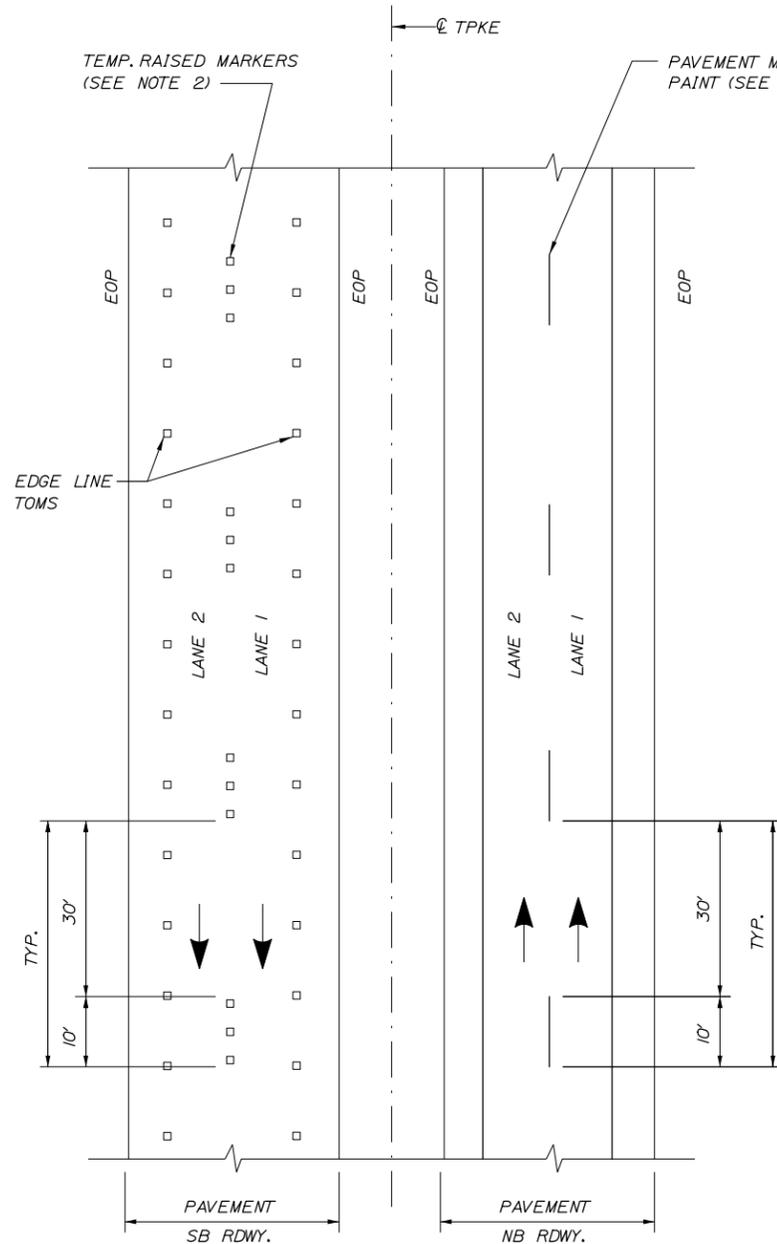
PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS

SIGN SUMMARY 3

SHEET NUMBER: T-10
 18 OF 69

CONTRACT: 2015.01

Date: 1/22/2015

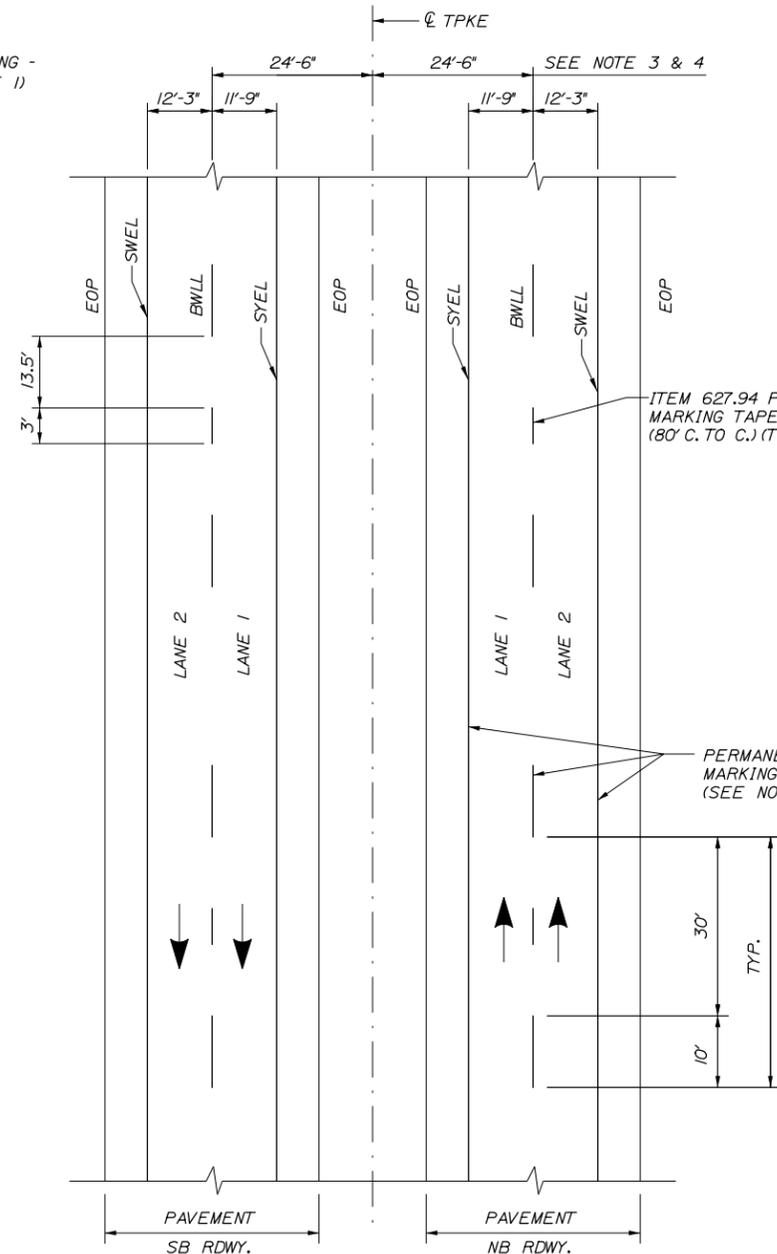


TEMPORARY PAVEMENT MARKINGS
2 LANE ROADWAY

NOTES:

1. TEMPORARY PAVEMENT MARKINGS ON MILLED PAVEMENT OR SHIM MATERIAL SHALL BE 6" SOLID WHITE, BROKEN WHITE, AND SOLID YELLOW PAINT LINES.

2. TEMPORARY PAVEMENT MARKINGS ON NEW HMA 12.5MM 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".



PERMANENT PAVEMENT MARKINGS
2 LANE ROADWAY

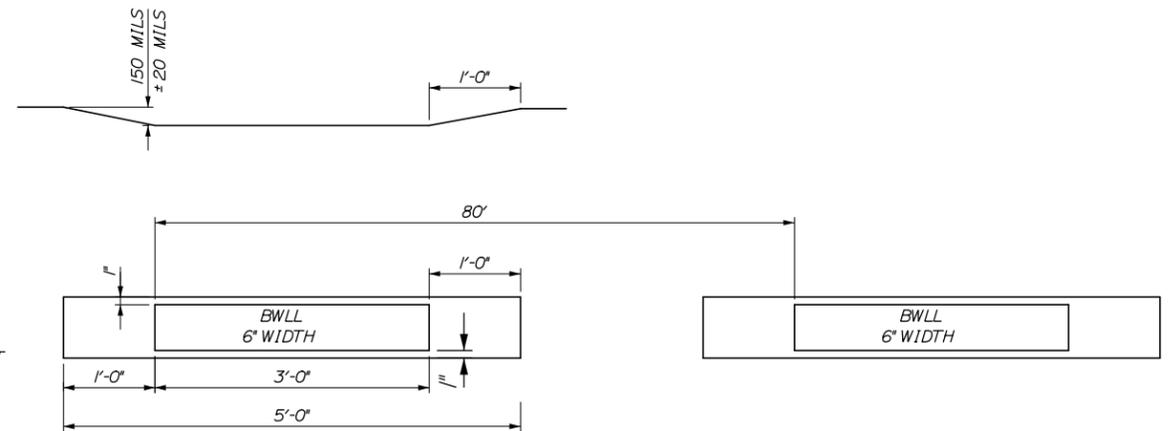
NOTES:

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. CENTER LINE PAVEMENT JOINT IS 25' OFF OF CENTER LINE OF TURNPIKE.



ITEM 627.94
PERMANENT PAVEMENT
MARKINGS WITH TAPE
GROOVING DETAIL
N.T.S.

LEGEND

SYEL = SOLID YELLOW EDGE LINE (6" PAINT)

SWEL = SOLID WHITE EDGE LINE (6" PAINT)

BWL = BROKEN WHITE LANE LINE (6" PAINT)

EOP = EDGE OF PAVEMENT

Filename: 019_PaveMark1.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
			
By	Date	By	Date
Designed	JRL 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS

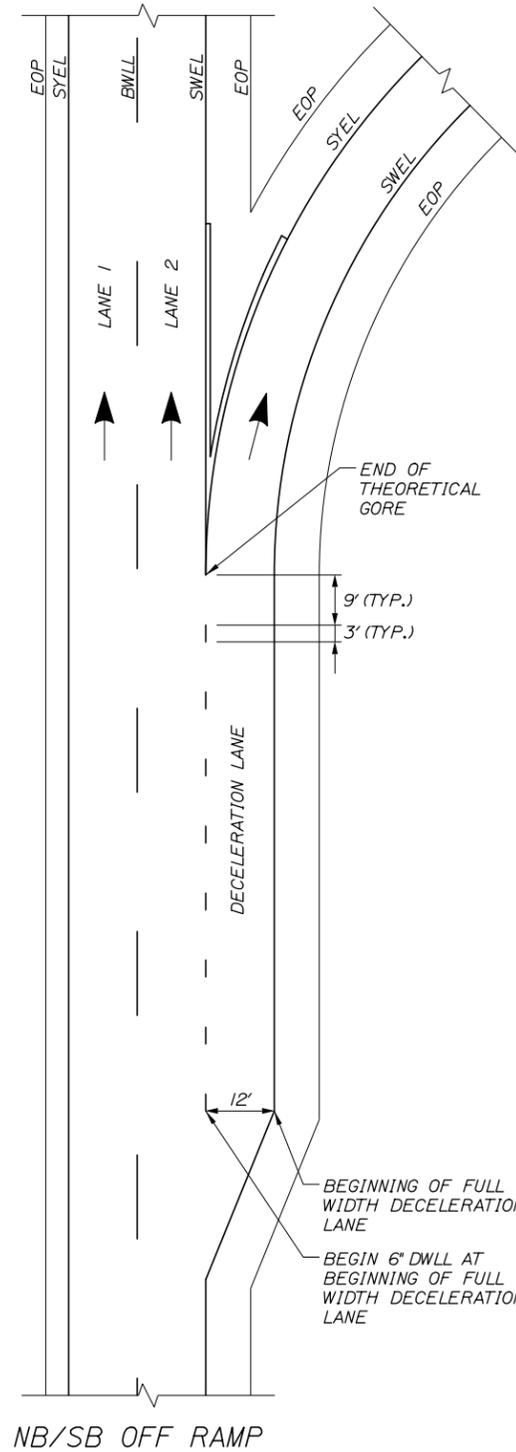
PAVEMENT MARKING DETAILS 1

SHEET NUMBER: T-11

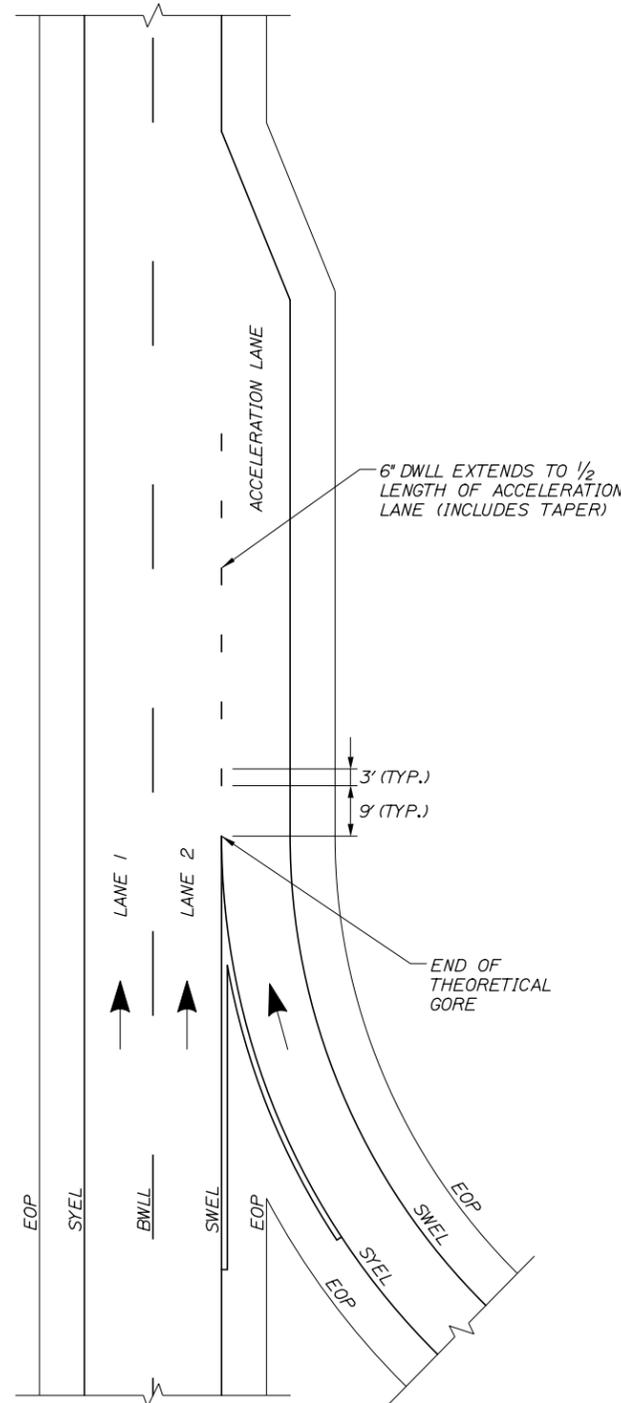
CONTRACT: 2015.01

19 OF 69

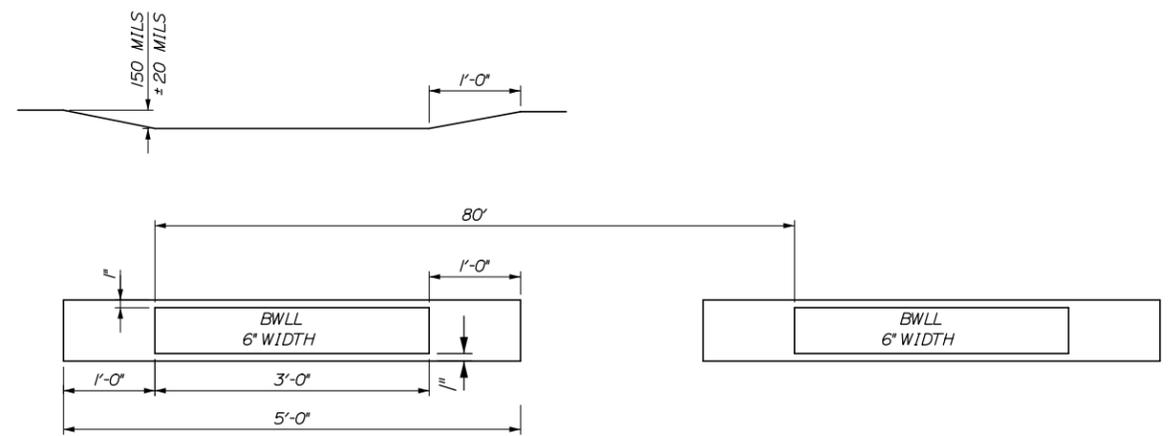
Date: 1/22/2015



NB/SB OFF RAMP



NB/SB ON RAMP



ITEM 627.94I
PERMANENT PAVEMENT
MARKINGS WITH TAPE
 GROOVING DETAIL
 N.T.S.

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
- DWLL = DOTTED WHITE LANE LINE (6" GROOVED IN TAPE)

NOTES:

1. PERMANENT PAVEMENT MARKINGS SHALL BE 6" WIDE LINES, UNLESS OTHERWISE NOTED.
2. PERMANENT PAVEMENT MARKINGS SHALL BE INSTALLED ON BOTH ROADWAYS.
3. THE OFFSET DISTANCES SHOWN ARE MEASURED FROM THE CENTER OF THE 6" PAINT LINES.
4. ALL EXISTING PAINT MARKINGS SHALL BE REMOVED PRIOR TO INSTALLATION OF ITEM 627.94I PAVEMENT MARKING TAPE AND SHALL BE INCIDENTAL TO INSTALLATION OF THE TAPE.
5. ON DECELERATION RAMPS, THE DWLL SHALL BEGIN AT THE BEGINNING OF THE FULL WIDTH DECELERATION LANE AND EXTEND TO THE THEORETICAL GORE MARKINGS.
6. ON ACCELERATION RAMPS, THE DWLL SHALL EXTEND FROM THE THEORETICAL GORE MARKINGS TO A POINT ONE-HALF OF THE TOTAL LENGTH OF THE ACCELERATION RAMP. THE ACCELERATION RAMP LENGTH IS THE TOTAL LENGTH OF THE FULL WIDTH LANE AND THE LANE TAPER.
7. ITEM 627.94I PAVEMENT MARKING TAPE FOR DWLL SHALL BE INSTALLED IN AN "IN-AND-OUT" GROOVING PATTERN. SEE DETAIL THIS SHEET.

EXIT 52 AND EXIT 53
PERMANENT PAVEMENT
MARKINGS WITH TAPE
 (ITEM 627.94I PAVEMENT MARKING TAPE)

Filename: 020_PaveMark2.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
	By	Date	
	JRL	01/15	
	MPC	01/15	

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

THE GOLD STAR
MEMORIAL HIGHWAY

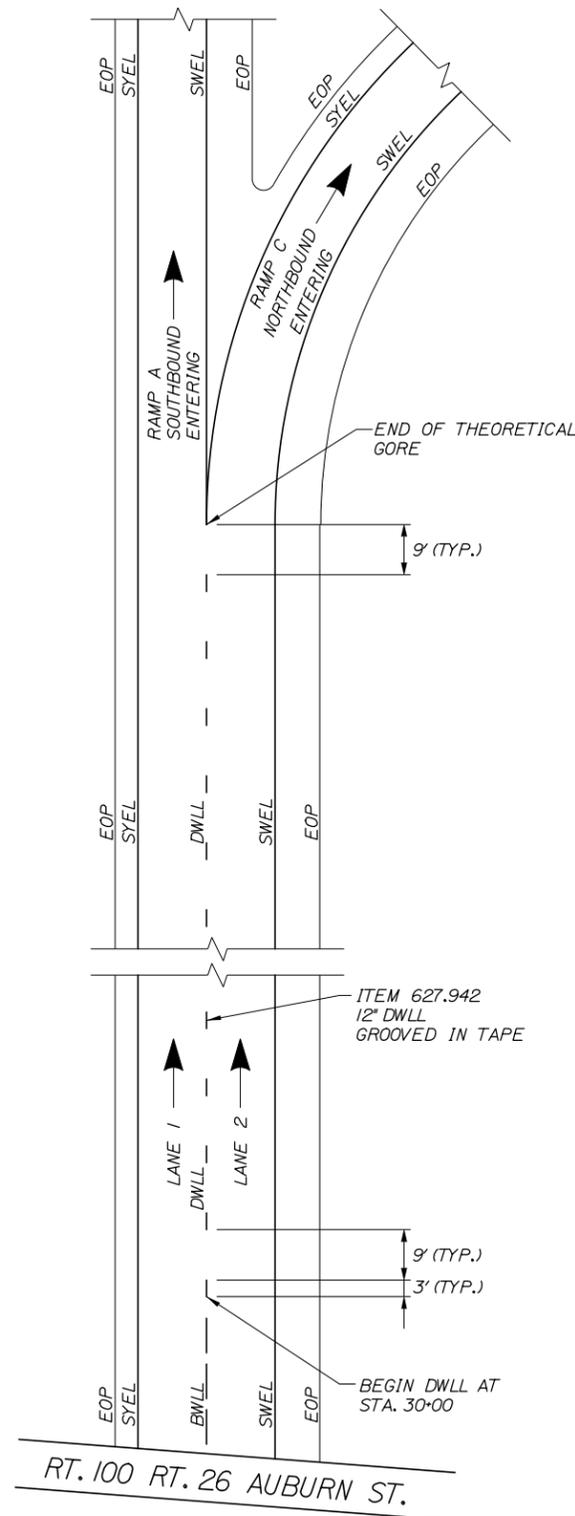
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS

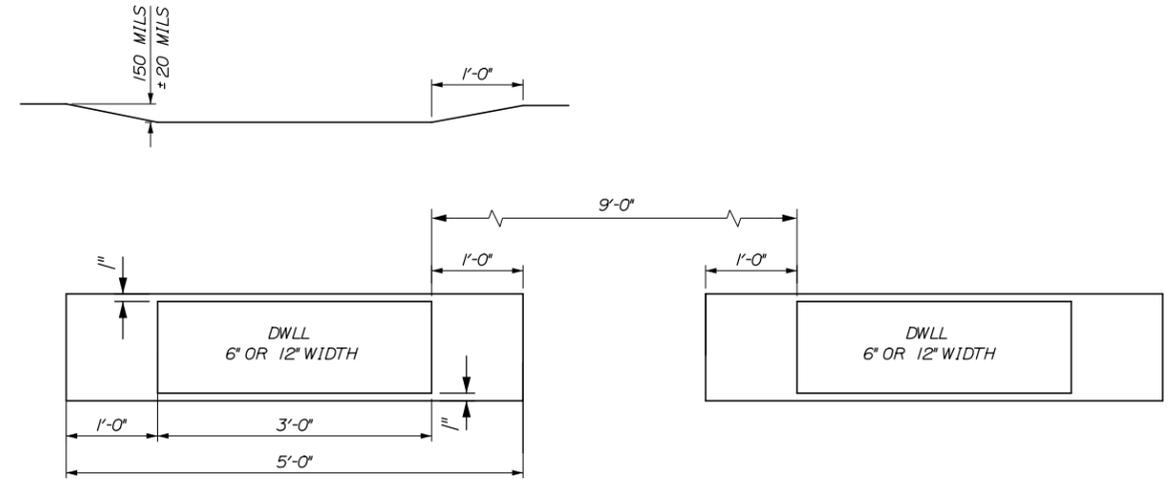
PAVEMENT MARKING DETAILS 2

SHEET NUMBER: T-12
 CONTRACT: 2015.01
 20 OF 69

Date: 1/22/2015



PERMANENT PAVEMENT MARKINGS
 (ITEM 627.942 PAVEMENT MARKING TAPE)
 N.T.S.



ITEM 627.941 AND ITEM 627.942
DWLL PERMANENT PAVEMENT
MARKINGS WITH TAPE
 GROOVING DETAIL
 N.T.S.

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
- DWLL = DOTTED WHITE LANE LINE
 (6" GROOVED IN TAPE OR 12" GROOVED IN TAPE)

NOTES:

1. PERMANENT PAVEMENT MARKINGS SHALL BE 6" WIDE LINES, UNLESS OTHERWISE NOTED.
2. THE OFFSET DISTANCES SHOWN ARE MEASURED FROM THE CENTER OF THE 6" PAINT LINES.
3. ALL EXISTING PAINT MARKINGS SHALL BE REMOVED PRIOR TO INSTALLATION OF ITEM 627.941 AND 627.942 PAVEMENT MARKING TAPE.
4. ON DECELERATION RAMPS, THE DWLL SHALL BEGIN AT THE BEGINNING OF THE FULL WIDTH DECELERATION LANE AND EXTEND TO THE THEORETICAL GORE MARKINGS.
5. ON ACCELERATION RAMPS, THE DWLL SHALL EXTEND FROM THE THEORETICAL GORE MARKINGS TO A POINT ONE-HALF OF THE TOTAL LENGTH OF THE ACCELERATION RAMP. THE ACCELERATION RAMP LENGTH IS THE TOTAL LENGTH OF THE FULL WIDTH LANE AND THE LANE TAPER.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	Checked	Date
JRL	01/15	GJO	01/15
Drawn	MPC	In Charge of	SRT
	01/15		01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

	THE GOLD STAR MEMORIAL HIGHWAY
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.	

PAVEMENT REHABILITATION CLEAR ZONE IMPROVEMENTS PAVEMENT MARKING DETAILS 3
SHEET NUMBER: T-13 21 OF 69
CONTRACT: 2015.01

Filename: 021_PaveMark3.dgn

GUARDRAIL EARTHWORK AND PAVEMENT REPAIR NOTES

1. ALL EARTHWORK AND PAVEMENT REPAIRS ASSOCIATED WITH GUARDRAIL INSTALLATIONS AND/OR MODIFICATIONS FOR THIS CONTRACT SHALL BE INCIDENTAL TO THE GUARDRAIL ITEMS UNLESS OTHERWISE NOTED.

2. ALL DISTURBED AREAS DUE TO THE WORK PERFORMED UNDER THIS CONTRACT FOR GUARDRAIL REPAIRS, MODIFICATION AND/OR INSTALLATIONS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION. GRASSED AREAS SHALL RECEIVE 4" OF LOAM, SEED, FERTILIZER AND MULCH. IN PAVED AREAS, SUBBASE GRAVEL SHALL BE REPLACED AND RECOMPACTED WITH MAINE DOT TYPE-D GRAVEL AND HOT MIX ASPHALT TO A THICKNESS TO MATCH SURROUNDING PAVEMENT.

3. COMPACTION OF EARTH AND/OR SUBBASE GRAVEL AROUND GUARDRAIL POSTS DISTURBED DURING THE WORK IS REQUIRED. ALL POSTS SHALL BE PLUMB AFTER COMPACTION.

4. EXCAVATION NECESSARY TO MAINTAIN DRAINAGE WAYS OUTSIDE OF THE FLEAT 350 WIDENING OR THE SHOULDER WIDENING WORK AREA SHALL BE PAID FOR UNDER ITEM 631.12 ALL PURPOSE EXCAVATOR AS APPROVED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL SHALL BE USED TO GRADE ANY PROPOSED SLOPE AREA OUTSIDE OF 1:1 SLOPE LIMIT OR USED TO FLATTEN SLOPES OUTSIDE THE WORK AREA AS APPROVED BY THE RESIDENT. PLACEMENT AND COMPACTION OF THE EXCAVATED MATERIAL WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

5. SLOPES CONSTRUCTED FROM THE ABOVE NOTED EXCAVATED MATERIAL SHALL BE LOAMED, SEEDED AND MULCHED. LOAM, SEED AND MULCH WILL NOT BE MEASURED FOR PAYMENT AND SHALL BE INCIDENTAL TO THE CONTRACT.

6. SLOPES CONSTRUCTED FOR ITEM 205.51 SHALL BE 3:1 WITHIN 50 FEET OF THE TERMINAL END AND CAN BE 2:1 IN ALL OTHER AREAS.

GUARDRAIL INSTALLATION AND MODIFICATION NOTES

1. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE INSTALLATION AND/OR MODIFICATION OF ANY AND ALL GUARDRAIL COMPONENTS TO BE INSTALLED UNDER THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER IF THE CONTRACTOR DISCOVERS CONFLICTS OR IRREGULARITIES OF ANY SORT BETWEEN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THESE CONTRACT DOCUMENTS.

2. THE CONTRACTOR IS REQUIRED TO HAVE AN APPROVED CRASH END TREATMENT ON ALL GUARDRAIL ENDS IN ALL WORK AREAS AT THE END OF EACH DAY. THE CONTRACTOR SHALL ENSURE THAT ENOUGH TIME EXISTS IN THE WORK DAY TO COMPLETE ALL MODIFICATIONS AND/OR INSTALLATIONS TO END TERMINALS. THE CONTRACTOR SHALL ENSURE THAT ALL PARTS AND MANPOWER ARE ON-SITE PRIOR TO UNDERTAKING ANY GUARDRAIL MODIFICATIONS.

3. GUARDRAIL HEIGHT SHALL BE INSTALLED OR ADJUSTED TO 30" ± 0", -1/2" HEIGHT. GUARDRAIL HEIGHT SHALL BE MEASURED FROM THE EDGE OF PAVEMENT WHEN WITHIN 2 FEET. IF GUARDRAIL IS OFFSET FROM EDGE OF PAVEMENT GREATER THAN 2 FEET, THEN HEIGHT OF RAIL SHALL BE MEASURED AT GROUND ELEVATION ADJACENT TO EACH POST BELOW THE RAIL TO THE TOP OF GUARDRAIL AND AFTER FINAL GRADING OF SHOULDER.

4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CUT BOLTS, DISCARDED PARTS, TRASH, PAVEMENT DEBRIS, ETC., AFTER COMPLETING GUARDRAIL MODIFICATIONS AND/OR INSTALLATIONS.

5. CONNECTIONS FOR PROPOSED RAIL TO EXISTING RAIL SHALL BE INCIDENTAL TO THE INSTALLATION OF PROPOSED GUARDRAIL.

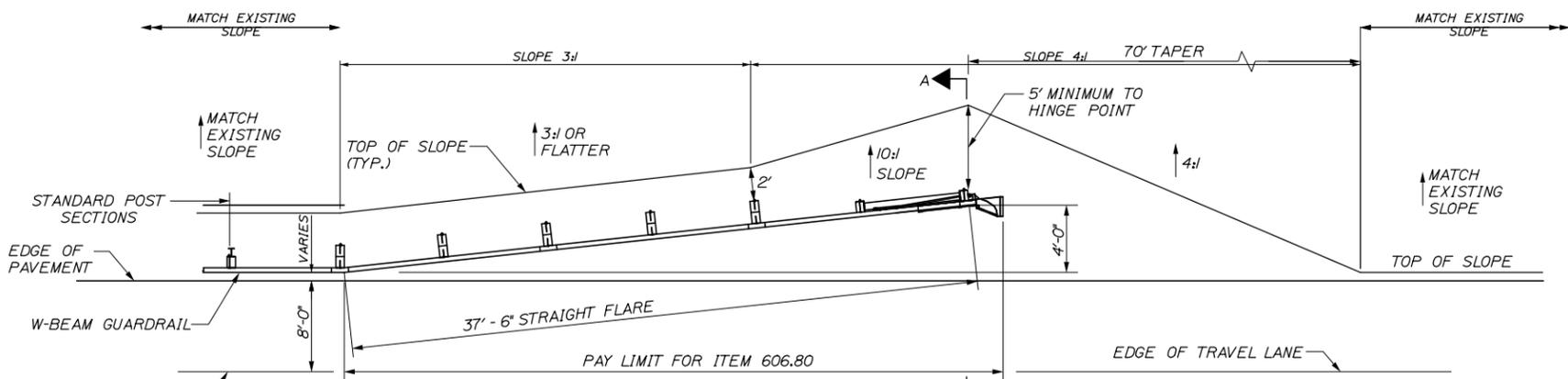
6. FLEAT 350 TERMINALS INSTALLED UNDER THIS CONTRACT SHALL BE INSTALLED AT A HEIGHT OF 27.5' AT THE TERMINAL HEAD AND TRANSITIONING UP TO THE REQUIRED HEIGHT OF RAIL OF 30" ± 0", -1/2" OVER A 25 LINEAR FOOT LENGTH AFTER POST #7. HEIGHT OF FLEAT 350 RAIL SHALL BE MEASURED FROM THE GROUND ELEVATION UNDER THE FLEAT RAIL PANELS TO THE TOP OF RAIL.

7. SOIL ANCHOR TUBES INSTALLED AS PART OF CAT, FLEAT OR TRAILING TERMINAL ENDS SHALL NOT PROTRUDE FROM THE GROUND MORE THAN 3 1/2". ADDITIONAL SITE GRADING MAY BE REQUIRED TO ADJUST SOIL TUBE REVEAL AND IF REQUIRED SHALL NOT DIRECT STORMWATER SURFACE DRAINAGE TOWARDS THE SHOULDER OR TRAVEL WAY. ADDITIONAL SITE GRADING SHALL BE INCIDENTAL TO THE END TERMINAL INSTALLATION.

8. TRANSITION RAIL HEIGHT ON TERMINAL END-ANCHORED ENDS FROM 27 1/2" AT THE END OF THE RAIL TO 30" HEIGHT OVER A 25 LINEAR FOOT LENGTH.

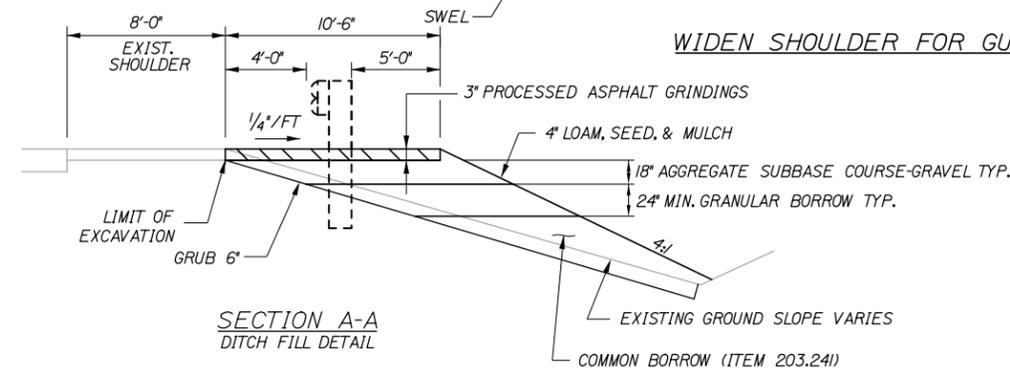
EROSION

1. EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL DISTURBED 2:1 SLOPES AND IN FLOW LINE OF ALL DISTURBED DITCHES AFTER LOAM AND SEED HAVE BEEN INSTALLED.

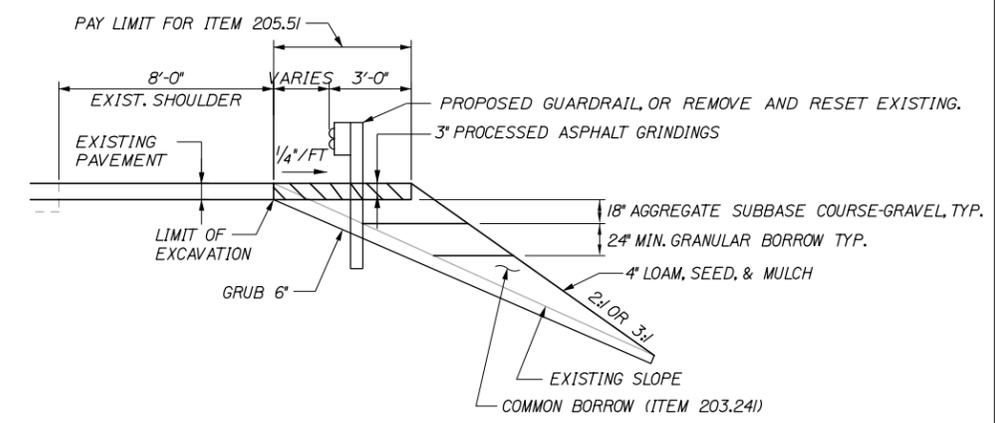


WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL - ITEM 606.754

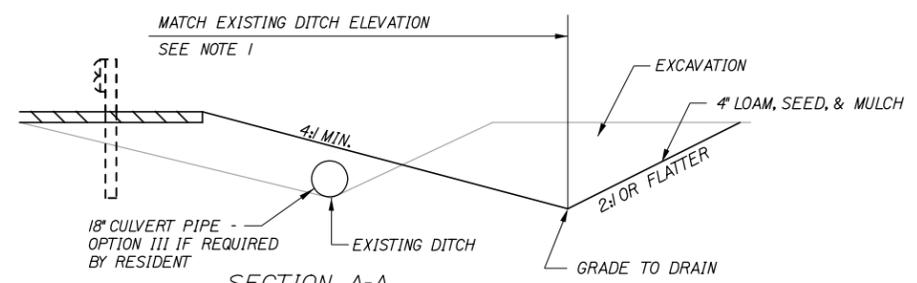
PLAN
N.T.S.



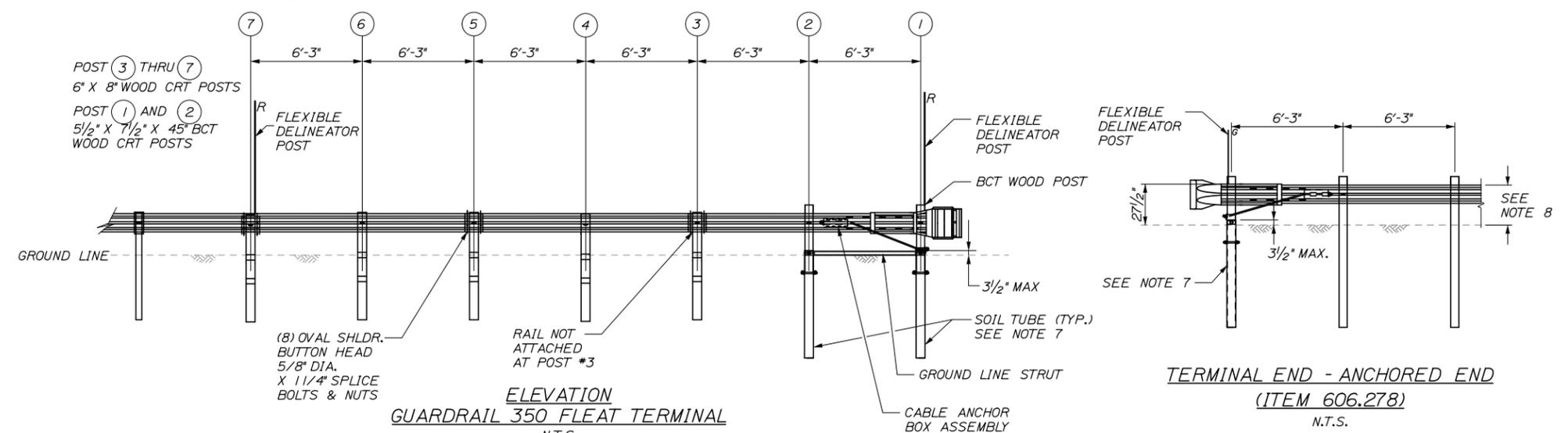
**SECTION A-A
DITCH FILL DETAIL**



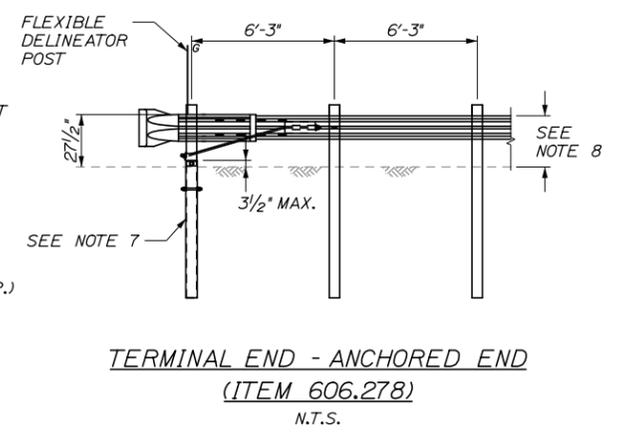
SHOULDER WIDENING DETAIL - ITEM 205.51



**SECTION A-A
DITCH CUT DETAIL**



**ELEVATION
GUARDRAIL 350 FLEAT TERMINAL
N.T.S.**



**TERMINAL END - ANCHORED END
(ITEM 606.278)
N.T.S.**

Date: 1/22/2015

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
By	Date	By	Date
Designed	BAT 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567

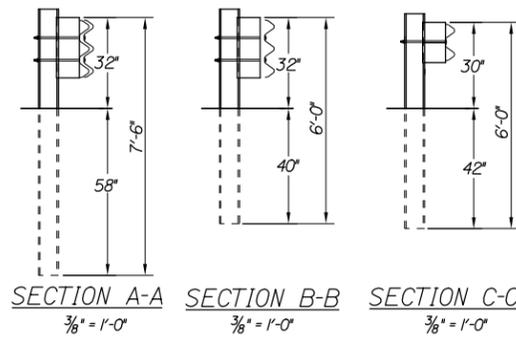
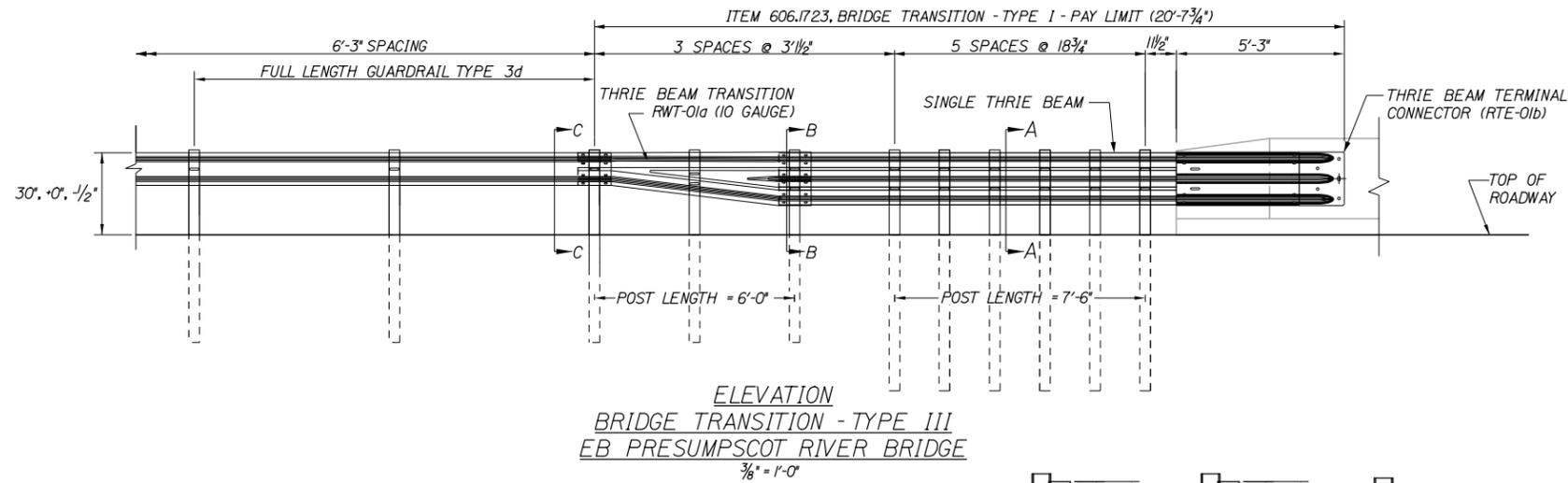
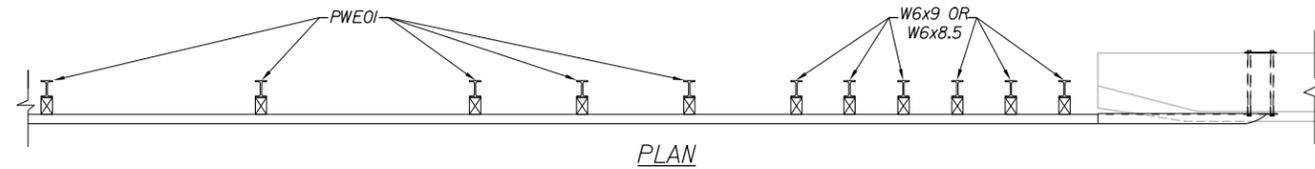
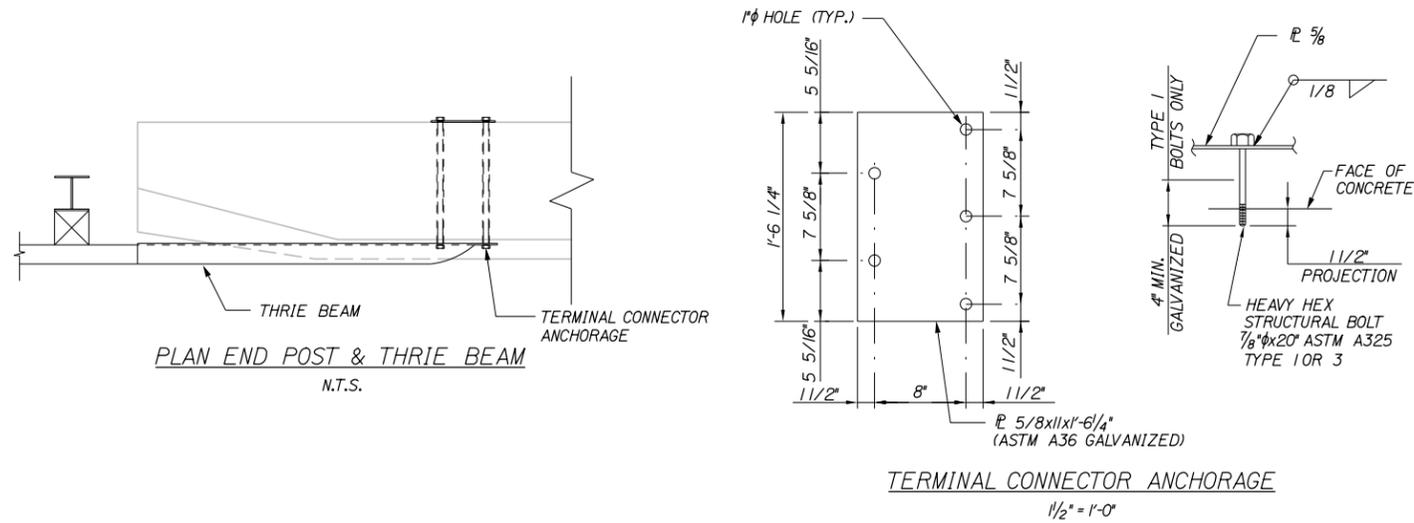
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
GENERAL NOTES
& SHOULDER WIDENING DETAILS

SHEET NUMBER: G-1
CONTRACT: 2015.01
22 OF 69

Date: 1/22/2015



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 METHOD APPROVED BY THE ENGINEER.
7. THRIE BEAM BRIDGE ATTACHMENT SHALL HAVE 3" x 7/8" SLOTS AT THE FIRST BOLT CONNECTIONS ON THE BRIDGE DECK. THE THREADS ON THE BOLTS AT THE SLOTS SHALL BE UPSET AT THE JUNCTION OF THE NUT WITH A CENTER PUNCH OR SIMILAR TOOL.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	By	Date
Designed	BAT 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567

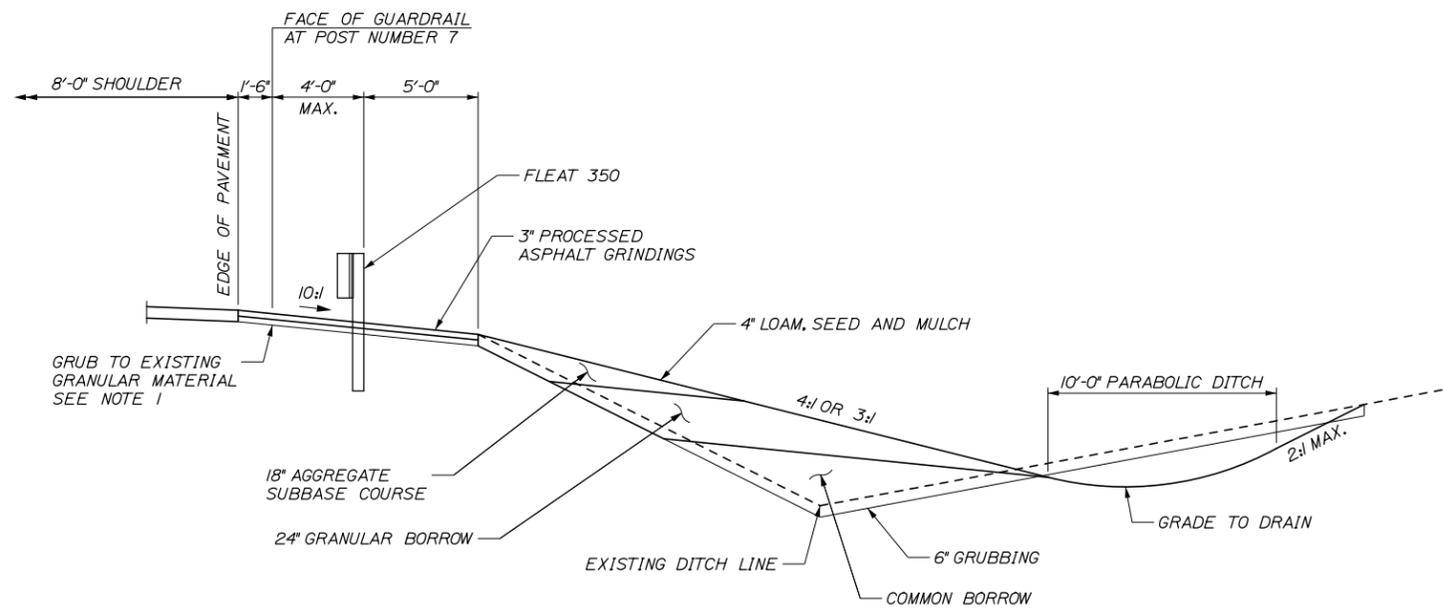
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 GUARDRAIL DETAILS
 BRIDGE TRANSITION - TYPE III

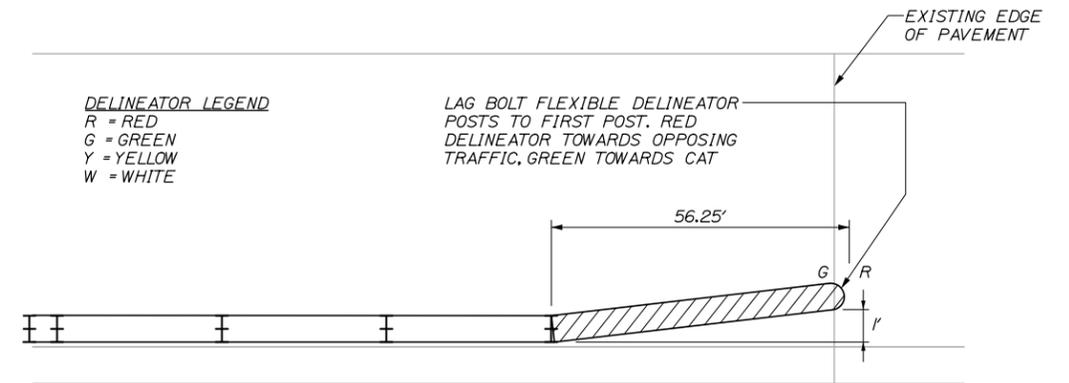
SHEET NUMBER: G-2
 CONTRACT: 2015.01
 23 OF 69

Date: 1/23/2015



**MODIFY SHOULDER WIDENING FOR GUARDRAIL 350 FLARED TERMINAL
(ITEM 606.755)**
1/4" = 1'-0"

NOTES:
1. GRUB TOP OF EXISTING SHOULDER WIDENING DOWN TO GRANULAR SUBBASE MATERIAL MINIMUM 3" BELOW EDGE OF PAVEMENT AND COMPACT. PLACE ADDITIONAL GRANULAR BORROW AND COMPACT IF GRUBBING MORE THAN 3" BELOW EDGE OF PAVEMENT.

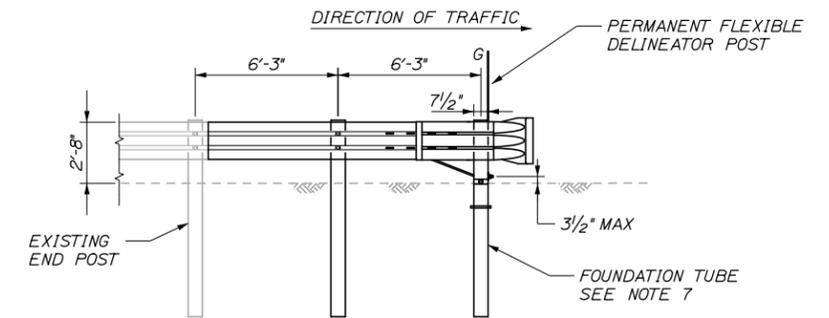


DELINEATOR LEGEND
R = RED
G = GREEN
Y = YELLOW
W = WHITE

LAG BOLT FLEXIBLE DELINEATOR POSTS TO FIRST POST. RED DELINEATOR TOWARDS OPPOSING TRAFFIC, GREEN TOWARDS CAT

CAT INSTALLATION DETAIL

NOTES:
1. THE NEW CAT SYSTEM INCLUDES 33.25 FEET OF ENERGY ABSORBING SYSTEM AND 25 FEET OF TYPE 3D MODIFIED DOUBLE RAIL.
2. THE ENTIRE 58.25' OF THE CAT SYSTEM SHALL BE ON THE SAME CONTINUOUS TANGENT.
3. THE LEADING END OF THE CAT SHALL BE NO CLOSER THAN 1 FOOT FROM THE TANGENT LINE CREATED BY THE DOUBLE RAIL PRIOR TO THE CAT SYSTEM.



**TERMINAL END - ANCHORED END - THRIE BEAM
(ITEM 606.279)**
1/4" = 1'-0"

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

By	Date	By	Date
Designed	BAT 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
GUARDRAIL TAPER DETAILS

SHEET NUMBER: G-4
CONTRACT: 2015.01
25 OF 69

MAIN LINE MEDIAN SCHEDULE OF GUARDRAIL IMPROVEMENTS

MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK				ITEM 606.178 GUARDRAIL BEAM	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END- ANCHORED END	ITEM 606.353 DELINEATOR POST - NEW	ITEM 606.355 - DELINEATOR POST - REMOVE AND STACK	ITEM 606.3621 GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.3622 GUARDRAIL ADJUST - DOUBLE RAIL	ITEM 606.471 SINGLE OFFSET BLOCK - W BEAM	ITEM 606.48 SINGLE GALVANIZED STEEL POST	ITEM 606.701 ASYMMETRICAL THRIE BEAM TRANSITION	DESCRIPTION OF WORK
		EXISTING	PROPOSED	APPROX. STATION	APPROX. STATION of TERMINAL END or ENDPOST											
51.1	Riverside St	2551+50	2553+35	2551+50	2553+35				2	2				1	Replace existing Guardrail Transition Panel with New Asymmetrical Transition Panel. Adjust height of Type 3-d Guardrail to match.	
51.5	Exit 52 Decel Ramp	2563+05	2564+85	2563+05	2564+85		1	1	1	1	187.5				See Installation Note 2 and Note 3. Reinforce both North and South Bounds.	
51.7	Exit 52	2573+20	2574+75	2573+20	2574+87.5		2	2	2	2	287.5	56	28		See Installation Note 2.	
52.0	Blackstrap Road	2589+95	2591+20	2589+82.5	2591+32.5		2	2	6	6	250.0				See Installation Note 2.	
52.4	Exit 53	2611+85	2613+85	2611+72.5	2613+97.5		2	2	4	4					See Installation Note 2.	
52.6	Leighton Road	2621+00	2622+25	2620+87.5	2622+37.5		2	2	4	3	250.0	56	28		See Installation Note 2 and Note 3. Reinforce both North and South Bounds.	
53.4	Mountain Road	2666+35	2668+00	2666+30	2668+42.5		2	2	2	1	375.0	56	28		See Installation Note 2 and Note 3. Reinforce both North and South Bounds.	
51.2 to 55.0	Median Guardrail	2553+40	2748+00	N/A	N/A	375.0						18,300.0			See Installation Note 1.	
TOTAL						375.0	11	11	21	19	1,350.0	18,300	168	84	1	
UNIT						LF	EA	EA	EA	EA	LF	LF	EA	EA	EA	

GENERAL NOTES:

- 1 - APPROXIMATE STATION IS THE LEADING END OF THE EXISTING TWISTED END, MELT, OR BRIDGE ENDPOST WHEN EXITING, PRIOR TO PROPOSED WORK.
- 2 - FOR ITEM 205.51 SHOULDER WIDENING, WIDEN SHOULDER AS INDICATED ON ABOVE SCHEDULE OR AS DIRECTED BY THE RESIDENT ENGINEER.
- 3 - QUANTITY NOTED ON THIS SCHEDULE FOR 606.178 GUARDRAIL BEAM IS AN APPROXIMATE QUANTITY. REPLACE DAMAGED GUARDRAIL BEAMS AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER.
- 4 - REPLACE ALL RIGID GUARDRAIL DELINEATOR POSTS WITH FLEXIBLE DELINEATORS.
- 5 - INDICATED INSTALLATION LOCATION OF FLEAT UNITS REFERS TO LOCATION OF THE FLEAT CRASH HEAD.

INSTALLATION NOTES:

- 1 - ADJUST ALL TYPE -3d GUARDRAIL TO 30-INCH ABOVE EDGE OF PAVEMENT AS REQUIRED OR AS DIRECTED BY THE RESIDENT. TRANSITION DOWN TO A RAIL HEIGHT OF 27-3/4" AT FLEAT 350 AND ANCHORED ENDS OVER 25 LF PRIOR TO TERMINAL END.
- 2 - REMOVE EXISTING END SECTION AND STACK; INSTALL ANCHORED TRAILING END.
- 3 - INSTALL ADDITIONAL GALVANIZED POSTS AND NEW OFFSET BLOCKS TO RAIL ALONG FACE OF BRIDGE PIER AND A MINIMUM OF 25 FEET EITHER SIDE OF PIER TO REDUCE POST SPACING TO 37.5-INCHES.
- 4 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.
- 5 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; EXTEND LEADING END WITH TYPE-3d GUARDRAIL AND INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.

Date:1/22/2015

Filename: 026_GR-Tables01.dgn

Scale:	Designed by:	 <p>MAINE TURNPIKE AUTHORITY 2360 Congress Street Portland, ME 04102 TEL (207) 871-7771 FAX (207) 879-5567</p>	 <p>THE GOLD STAR MEMORIAL HIGHWAY</p> <p>MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.</p>	PAVEMENT REHABILITATION CLEAR ZONE IMPROVEMENTS SCHEDULE OF MEDIAN GUARDRAIL LIMITS SHEET NUMBER: G-5 CONTRACT:2015.01																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	Revision	By	Date													<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed</td> <td>BAT 01/15</td> <td>Checked</td> <td>GJO 01/15</td> </tr> <tr> <td>Drawn</td> <td>MPC 01/15</td> <td>In Charge of</td> <td>SRT 01/15</td> </tr> </tbody> </table>	By	Date	By	Date	Designed	BAT 01/15	Checked	GJO 01/15	Drawn	MPC 01/15	In Charge of	SRT 01/15			
No.	Revision	By	Date																													
By	Date	By	Date																													
Designed	BAT 01/15	Checked	GJO 01/15																													
Drawn	MPC 01/15	In Charge of	SRT 01/15																													

Date: 1/22/2015

MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK		ITEM 606.178 GUARDRAIL BEAM	ITEM 606.24 GUARDRAIL TYPE 3d- SINGLE RAIL	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END- ANCHORED END	ITEM 606.279 TERMINAL END- ANCHORED END, THRIE BEAM	ITEM 606.353 DELINEATOR POST - NEW	ITEM 606.355 - DELINEATOR POST - REMOVE AND STACK	ITEM 606.3605 REMOVE, MODIFY and RESET SINGLE RAIL	ITEM 606.3621 GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.471 SINGLE OFFSET BLOCK - W BEAM	ITEM 606.48 SINGLE GALVANIZED STEEL POST	ITEM 606.701 ASYMMETRICAL THRIE BEAM TRANSITION	ITEM 606.754 WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.755 MODIFY WIDENED SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.80 GUARDRAIL 350 FLARED TERMINAL	ITEM 606.82 GUARDRAIL - REMOVE AND STACK EXISTING CRASH END	ITEM 205.51 WIDEN SHOULDER			DESCRIPTION OF WORK		
		EXISTING																		PROPOSED		TRAILING END			
		APPROX. STATION	APPROX. STATION OF TERMINAL END OR ENDPST																	STATION LEADING END	STATION TRAILING END	BEGIN STATION		END STATION	QUANTITY
51.1	Riverside St	2548+60	2557+75	2548+60	2557+87.5																2557+75	2557+90	15	See Installation Note 1 and Note 2. Replace existing Guardrail Transition Panels (2) at Riverside Overpass with New Asymmetrical Transition Panel. Widen shoulder at location indicated after trailing end.	
51.5	NB Shoulder (Exit 52 Decel Ramp)	2560+50	2564+80	2560+50	2565+05																				See Installation Note 1 and Note 2. Extend Trailing End 12.5 LF and install Terminal End - Anchored End.
51.6	Exit 52	2571+35	2578+10	2571+35	2578+10																				See Installation Note 1.
52.0	Blackstrap Road	2588+30	2590+80	2588+30	2590+92.5																				See Installation Note 1 and Note 2. On Trailing End, install Thrie Beam Terminal End - Anchored End.
52.3	Exit 53 Decel Ramp	2599+30	2602+60	2599+30	2602+72.5																				See Installation Note 1 and Note 2.
52.4	Exit 53	2610+50	2614+00	2610+50	2614+12.5	25.0																			See Installation Note 2 and Note 3.
52.6	Leighton Road	2619+50	2622+75	2619+50	2622+87.5	12.5																			See Installation Note 1 and Note 2. On Trailing End, install Thrie Beam Terminal End - Anchored End.
52.8	NB Shoulder	2634+60	2638+00	2634+60	2364+72.5	12.5																2638+00	2638+15	15	See Installation Note 1 and Note 2. Widen shoulder at location indicated after trailing end.
53.0	NB Shoulder	2642+70	2655+30	2642+20	2655+42.5																				See Installation Note 1 and Note 2.
53.4	Mountain Road	2664+60	2670+90	2664+60	2671+02.5	50.0																2670+90	2671+05	15	See Installation Note 1 and Note 2. Replace existing Guardrail Transition Panels (2) with New Asymmetrical Transition Panel and match rail height of 30 inches. Widen shoulder at location indicated after trailing end.
53.6	NB Shoulder	2678+75	2704+75	2678+75	2704+87.5	12.5																2704+75	2704+90	15	See Installation Note 1 and Note 2. Widen shoulder at location indicated after trailing end.
54.3	NB Shoulder	2712+20	2720+40	2712+20	2720+52.5																	2720+40	2720+60	20	See Installation Note 1 and Note 2. Remove and Stack White Delineator located in front of FLEAT 350. Widen shoulder at location indicated after trailing end.
54.7	NB Shoulder	2732+50	2756+70	2732+50	2756+82.5																				See Installation Note 1 and Note 2. Remove and Stack White Delineator located in front of FLEAT 350.
				TOTAL		50.0	12.5	12	10	2	30	27	125.0	6225.0	28	14	7	1	9	7	7			80.0	
				UNIT		LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA			LF	

GENERAL NOTES:
 1 - APPROXIMATE STATION IS THE LEADING END OF THE EXISTING TWISTED END, MELT, OR BRIDGE ENDPST WHEN EXITING, PRIOR TO PROPOSED WORK.
 2 - FOR ITEM 205.51 SHOULDER WIDENING, WIDEN SHOULDER AS INDICATED ON ABOVE SCHEDULE OR AS DIRECTED BY THE RESIDENT ENGINEER.
 3 - QUANTITY NOTED ON THIS SCHEDULE FOR 606.178 GUARDRAIL BEAM IS AN APPROXIMATE QUANTITY. REPLACE DAMAGED GUARDRAIL BEAMS AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER.
 4 - REPLACE ALL RIGID GUARDRAIL DELINEATOR POSTS WITH FLEXIBLE DELINEATORS.
 5 - INDICATED INSTALLATION LOCATION OF FLEAT UNITS REFERS TO LOCATION OF THE FLEAT CRASH HEAD.

INSTALLATION NOTES:
 1 - ADJUST ALL TYPE 3d GUARDRAIL TO 30-INCH ABOVE EDGE OF PAVEMENT AS REQUIRED OR AS DIRECTED BY THE RESIDENT. TRANSITION DOWN TO A RAIL HEIGHT OF 27-3/4" AT FLEAT 350 AND ANCHORED ENDS OVER 25 LF PRIOR TO TERMINAL END.
 2 - REMOVE EXISTING END SECTION AND STACK; INSTALL ANCHORED TRAILING END.
 3 - INSTALL ADDITIONAL GALVANIZED POSTS AND NEW OFFSET BLOCKS TO RAIL ALONG FACE OF BRIDGE PIER AND A MINIMUM OF 25 FEET EITHER SIDE OF PIER TO REDUCE POST SPACING TO 37.5-INCHES.
 4 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.
 5 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; EXTEND LEADING END WITH TYPE-3d GUARDRAIL AND INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.

Filename: 027_GR-Tables02.dgn

Scale:		Designed by:				MAINE TURNPIKE AUTHORITY 2360 Congress Street Portland, ME 04102 TEL (207) 871-7771 FAX (207) 879-5567				THE GOLD STAR MEMORIAL HIGHWAY		PAVEMENT REHABILITATION CLEAR ZONE IMPROVEMENTS SCHEDULE OF GUARDRAIL LIMITS OUTSIDE SHOULDER - NORTHBOUND		SHEET NUMBER: G-6	
No.	Revision	By	Date												
				Designed	BAT 01/15	Checked	GJO 01/15								
				Drawn	MPC 01/15	In Charge of	SRT 01/15								
								MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.		CONTRACT: 2015.01		27 OF 69			

Date: 1/22/2015

MAIN LINE SOUTHBOUND SCHEDULE OF OUTSIDE SHOULDER WORK																									
MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK				ITEM 606.178 GUARDRAIL BEAM	ITEM 606.24 GUARDRAIL TYPE 3d-SINGLE RAIL	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END- ANCHORED END	ITEM 606.353 DELINEATOR POST - NEW	ITEM 606.355 - DELINEATOR POST - REMOVE AND STACK	ITEM 606.3605 REMOVE, MODIFY and RESET SINGLE RAIL	ITEM 606.3621 GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.3631 - GUARDRAIL REMOVE & DISPOSE	ITEM 606.471 SINGLE OFFSET BLOCK - W BEAM	ITEM 606.48 SINGLE GALVANIZED STEEL POST	ITEM 606.701 ASYMMETRICAL THRIE BEAM TRANSITION	ITEM 606.754 WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.755 MODIFY WIDENED SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.80 GUARDRAIL 350 FLARED TERMINAL	ITEM 606.82 REMOVE AND STACK EXISTING CRASH END	ITEM 205.51 WIDEN SHOULDER TRAILING END			DESCRIPTION OF WORK
		APPROX. STATION	APPROX. STATION of TERMINAL END or ENDPOST	STATION LEADING END	STATION TRAILING END																	BEGIN STATION	END STATION	QUANTITY	
55.0	SB Shoulder	2746+25	2732+00				1			3			1425.0											Remove and Stack existing Crash End and existing Type 3d Guard Rail after roadway side slope flattening has been completed and accepted.	
54.5	SB Shoulder	2720+20	2716+50			12.5	1	1	3	3	12.5	375.0						1	1	1				See Installation Note 1 and Note 2.	
54.1	SB Shoulder	2700+75	2693+60	2701+00	NA		1	1	3	3	37.5	675.0						1						See Installation Note 1 and Note 2.	
53.9	SB Shoulder	2690+25	2687+00	NA	2686+87.5		1	1	1	3	12.5							1	1	1	2687+00	2686+85	15.0	See Installation Note 1.	
53.7	SB Shoulder	2681+05	2678+65	2681+05	2678+77.5	12.5	1	1	3	3	12.5	200.0						1	1	1	2678+65	2678+50	15.0	See Installation Note 1 and Note 2.	
53.5	Mountain Road	2671+25	2665+70	2671+25	2665+57.5	12.5	1	1	3	3		525.0						1	1	1	2665+70	2665+55	15.0	See Installation Note 1 and Note 2.	
53.2	SB Shoulder	2656+05	2645+00	2656+17.5	2644+87.5		1	1	3	3		1,112.5						1	1	1	2645+00	2630+00	15.0	See Installation Note 1 and Note 2.	
52.6	Leighton Road	2622+75	2620+75	2623+15	2620+78				1	3	2		200.0					1		1				R/S all existing Guard Rail. Install new FLEAT 350 at STA 2623+15. Install new Guard Rail to STA 2620+90, then install Terminal End-Anchored End.	
52.4	Exit 53	2615+00	2612+10	2615+00	2612+00		1	1	3	3								1						See Installation Note 1 and Note 2.	
52.0	Blackstrap Road	2592+75	2590+25	2592+75	2590+25					2	2		200.0											See Installation Note 2.	
51.8	Preseumpscot River	2586+75	2572+75	2586+75	2572+82.5		1	1	3	3		1,150.0		44	18	2									
TOTAL						37.5	187.5	9	9	27	31	75.0	4,237.5	1625.0	44	18	2	1	7	6	7		60.0		
UNIT						LF	LF	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA		LF		

GENERAL NOTES:
 1 - APPROXIMATE STATION IS THE LEADING END OF THE EXISTING TWISTED END, MELT, OR BRIDGE ENDPOST WHEN EXITING, PRIOR TO PROPOSED WORK.
 2 - FOR ITEM 205.51 SHOULDER WIDENING, WIDEN SHOULDER AS INDICATED ON ABOVE SCHEDULE OR AS DIRECTED BY THE RESIDENT ENGINEER.
 3 - QUANTITY NOTED ON THIS SCHEDULE FOR 606.178 GUARDRAIL BEAM IS AN APPROXIMATE QUANTITY. REPLACE DAMAGED GUARDRAIL BEAMS AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER.
 4 - REPLACE ALL RIGID GUARDRAIL DELINEATOR POSTS WITH FLEXIBLE DELINEATORS.
 5 - INDICATED INSTALLATION LOCATION OF FLEAT UNITS REFERS TO LOCATION OF THE FLEAT CRASH HEAD.

INSTALLATION NOTES:
 1 - ADJUST ALL TYPE -3d GUARDRAIL TO 30-INCH ABOVE EDGE OF PAVEMENT AS REQUIRED OR AS DIRECTED BY THE RESIDENT. TRANSITION DOWN TO A RAIL HEIGHT OF 27-3/4" AT FLEAT 350 AND ANCHORED ENDS OVER 25 LF PRIOR TO TERMINAL END.
 2 - REMOVE EXISTING END SECTION AND STACK; INSTALL ANCHORED TRAILING END.
 3 - INSTALL ADDITIONAL GALVANIZED POSTS AND NEW OFFSET BLOCKS TO RAIL ALONG FACE OF BRIDGE PIER AND A MINIMUM OF 25 FEET EITHER SIDE OF PIER TO REDUCE POST SPACING TO 37.5-INCHES.
 4 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.
 5 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; EXTEND LEADING END WITH TYPE-3d GUARDRAIL AND INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.

Filename: 028_GR-Tables03.dgn

Scale:

No.	Revision	By	Date

Designed by:

			
By	Date	By	Date
BAT	01/15	GJO	01/15
Drawn	MPC	In Charge of	SRT
	01/15		01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION CLEAR ZONE IMPROVEMENTS

SCHEDULE OF GUARDRAIL LIMITS OUTSIDE SHOULDER - SOUTHBOUND

SHEET NUMBER: G-7

CONTRACT: 2015.01

28 OF 69

RAMP A RAMP B AND FALMOUTH SPUR MEDIAN SCHEDULE OF GUARDRAIL IMPROVEMENTS

MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK				ITEM 527.301 ENERGY ABSORBING SYSTEM (CAT) - NEW	ITEM 606.63 GUARDRAIL BEAM - THRIE BEAM	ITEM 606.178 GUARDRAIL BEAM	ITEM 606.2401 GUARDRAIL TYPE 3d-DOUBLE RAIL	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END- ANCHORED END	ITEM 606.353 DELINEATOR POST - NEW	ITEM 606.355- DELINEATOR POST - REMOVE AND STACK	ITEM 606.3606 GUARDRAIL - REMOVE, MODIFY, AND RESET, DOUBLE RAIL	ITEM 606.3621 GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.3631 GUARDRAIL - REMOVE AND DISPOSE	ITEM 606.3622 GUARDRAIL ADJUST - DOUBLE RAIL	ITEM 606.472 SINGLE OFFSET BLOCK - THRIE BEAM	ITEM 606.481 SINGLE GALVANIZED STEEL POST - THRIE BEAM	ITEM 606.701 ASYMMETRIC L THRIE BEAM TRANSITION	ITEM 645.109 REMOVE AND RESET SIGN	DESCRIPTION OF WORK
		APPROX. STATION	APPROX. STATION of TERMINAL END or ENDPOST	STATION LEADING END	STATION TRAILING END																	
EXIT 52 RAMP A, OUTSIDE SHOULDER WORK																						
0.1	Ramp A South Bound Entering	07+25	02+25	N/A	N/A			50.0														Replace damaged Guardrail Panels.
0.0	Ramp A South Bound Entering	37+75	2553+00	N/A	N/A			100.0							750.0					1		See Installation Note 1. Adjust Guard Rail height from STA 22+00 to STA 2553+00 (Riverside Overpass) on the Main Line. Replace damaged Guardrail Panels.
EXIT 52 RAMP B, OUTSIDE SHOULDER WORK																						
0.1	Ramp B North Bound Departing	35+60	37+50	N/A	N/A										50.0					1		See Installation Note 1.
0.1	Ramp B North Bound Departing	02+00	02+80	N/A	N/A				1	1	1	1			50.0					1		See Installation Notes 1 and Note 2.
FALMOUTH SPUR MEDIAN																						
0.3	MEDIAN	11+00	19+30	N/A	N/A		212.5										212.5		4.0	4.0		Replace damaged Thrie Beam Panels, offset Blocks, and Posts
0.7	AUBURN STREET	29+90	31+00	29+87.5	31+12.5				2	2	4	4			237.5							See Installation Notes 1 and Note 2.
1.7	FALMOUTH ROAD	80+00	81+22	79+87.5	81+34.5				2	2	4	4			250.0							See Installation Notes 1 and Note 2.
3.6	ROUTE 9 MIDDLE ROAD	183+15	185+80	183+2.5	185+92.5				2	2	3	3			500.0							See Installation Notes 1 and Note 2.
3.8	MEDIAN END OF MAINE TURNPIKE	192+40	194+50	192+40	193+45	2		137.5			2	2	250.0		50.0						1	See Installation Notes 1 and Note 2.
0.0 - 3.8	MEDIAN GUARDRAIL	02+30	192+00	N/A	N/A											15,300.0						See Installation Note 1.
TOTAL						2	212.5	150.0	137.5	7	7	14	14	250.0	1,837.5	262.5	15,300	4	4	3	1.0	
						EA	LF	LF	LF	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA		

GENERAL NOTES:
 1 - APPROXIMATE STATION IS THE LEADING END OF THE EXISTING TWISTED END, MELT, OR BRIDGE ENDPOST WHEN EXITING, PRIOR TO PROPOSED WORK.
 2 - FOR ITEM 205.51 SHOULDER WIDENING, WIDEN SHOULDER AS INDICATED ON ABOVE SCHEDULE OR AS DIRECTED BY THE RESIDENT ENGINEER.
 3 - QUANTITY NOTED ON THIS SCHEDULE FOR 606.178 GUARDRAIL BEAM IS AN APPROXIMATE QUANTITY. REPLACE DAMAGED GUARDRAIL BEAMS AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER.
 4 - REPLACE ALL RIGID GUARDRAIL DELINEATOR POSTS WITH FLEXIBLE DELINEATORS.
 5 - INDICATED INSTALLATION LOCATION OF FLEAT UNITS REFERS TO LOCATION OF THE FLEAT CRASH HEAD.

INSTALLATION NOTES:
 1 - ADJUST ALL TYPE 3d GUARDRAIL TO 30-INCH ABOVE EDGE OF PAVEMENT AS REQUIRED OR AS DIRECTED BY THE RESIDENT. TRANSITION DOWN TO A RAIL HEIGHT OF 27-3/4" AT FLEAT 350 AND ANCHORED ENDS OVER 25 LF PRIOR TO TERMINAL END.
 2 - REMOVE EXISTING END SECTION AND STACK; INSTALL ANCHORED TRAILING END.
 3 - INSTALL ADDITIONAL GALVANIZED POSTS AND NEW OFFSET BLOCKS TO RAIL ALONG FACE OF BRIDGE PIER AND A MINIMUM OF 25 FEET EITHER SIDE OF PIER TO REDUCE POST SPACING TO 37.5-INCHES.
 4 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.
 5 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; EXTEND LEADING END WITH TYPE-3d GUARDRAIL AND INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.

Date: 1/22/2015

Filename: 029_GR-Tables04.dgn

Scale:

No.	Revision	By	Date

Designed by:



By	Date	By	Date
Designed	BAT 01/15	Checked	GJO 01/15
Drawn	MPC 01/15	In Charge of	SRT 01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 SCHEDULE OF GUARDRAIL LIMITS
 EXIT 52 AND FALMOUTH SPUR I

SHEET NUMBER: G-8
 CONTRACT: 2015.01
 29 OF 69

Date: 1/22/2015

MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK		STATION LEADING END	STATION TRAILING END	ITEM 606.1725 BRIDGE TRANSITION - TYPE II	ITEM 606.178 GUARDRAIL BEAM	ITEM 606.24 GUARDRAIL TYPE 3d- SINGLE RAIL	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END- ANCHORED END	ITEM 606.353 DELINEATOR POST - NEW	ITEM 606.355 - DELINEATOR POST - REMOVE AND STACK	ITEM 606.3605 GUARDRAIL, SINGLE RAIL - REMOVE, MODIFY AND RESET	ITEM 606.3621 GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.3631 - GUARDRAIL REMOVE & DISPOSE	ITEM 606.471 SINGLE OFFSET BLOCK - W BEAM	ITEM 606.48 SINGLE GALVANIZED STEEL POST	ITEM 606.701 ASYMMETRICAL THRIE BEAM TRANSITION	ITEM 606.754 WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.80 GUARDRAIL 350 FLARED TERMINAL	ITEM 606.82 GUARDRAIL - REMOVE AND STACK EXISTING CRASH END	ITEM 205.51 WIDEN SHOULDER						DESCRIPTION OF WORK		
		EXISTING																				PROPOSED		LEADING END			TRAILING END			
		APPROX. STATION	APPROX. STATION OF TERMINAL END OR ENDOPOST																					BEGIN STATION	END STATION	QUANTITY	BEGIN STATION		END STATION	QUANTITY
EXIT 52 RAMP D NORHTBOUND DEPARTING, INSIDE SHOULDER WORK																														
0.3	RAMP D NORTHBOUND DEPARTING	39+20	42+10					50.0	1	1	3	2	25	237.5	25.00					1	1			15	See Installation Note 1 and Note 2. Replace Twisted End with 25 LF of Type 3d-Guardrail, extend an additional 25 LF and install the FLEAT 350.					
EXIT 52 RAMP D NORHTBOUND DEPARTING, OUTSIDE SHOULDER WORK																														
0.3	RAMP D NORTHBOUND DEPARTING	39+20	44+25	39+20	44+37.5				1	1	2	2											44+25	44+40	15	See Installation Note 1 and Note 2. Widen shoulder 15LF on trailing end for the installation of the Anchored End.				
0.4	RAMP D NORTHBOUND DEPARTING	47+00	11+10	47+00	11+10						1	1		62.5												See Installation Note 1 and Note 2. Hieght adjustment needed for 62.5 LF of Guardrail after FLEAT.				
FALMOUTH SPUR EASTBOUND																														
0.5	BLACKSTRAP RD OVERPASS	12+85	16+60	12+85	16+60		312.5							312.5	312.5											See Installation Note 1. Replace all Guardrail Beam between Blackstrap Road Overpass and Pam AM RR Overpass.				
0.6	PAN AM RAILROAD OVERPASS	18+75	23+75	18+75	23+87.5		287.5		1	1	1	1		287.5	51	2	1									See Installation Note 1 and Note 2. Replace Asymmetrical Transition Panel and 287.5 LF of Guardrail Beam after Pan AM RR Bridge.				
0.8	AUBURN STREET	28+85	30+87.5	28+10	32+00		62.5	1	1	3	2	50.0	125.0	25.0	19	1			1	1						See Installation Note 1 and Note 2. R/S Twisted End and replace 25 LF. Extend leading end additional 37.5 LF and install the FLEAT 350.				
0.9	EB SHOULDER	38+90	41+37.5	38+52.5	41+50		87.5	25.0	1	1	3	2	50.0	25.0									41+37.5	41+52.5	15	See Installation Note 1 and Note 2. Widen shoulder 15LF on trailing end for the installation of the Anchored End.				
1.3	PRESUMPSCOT RIVER	58+15	N/A	58+15	64+02.5	1	587.5		1	1															210	See Installation Note 1 and Note 2.				
1.7	FALMOUTH ROAD	79+20	81+20	77+45	81+32.5		137.5	1	1	3	2	62.5	112.5	25.0	19				1	1						See Installation Note 1 and Note 2. Replace Twisted End with 25 LF of Type 3d-Guardrail, extend an additional 137.5 LF and install the FLEAT 350.				
2.0	EB SHOULDER	98+55	103+55	98+17.5	103+67.5		25.0			3	2	50.0	25.0						1	1						See Installation Note 1. DO NOT install Anchored End on trailing end.				
2.3	EB SHOULDER	111+10	114+40	110+72.5	114+62.5				1	1	2	2											114+40	114+55	15	See Installation Note 1 and Note 2. DO NOT R/S Twisted End. Widen shoulder 15LF on trailing end for the installation of the Anchored End.				
2.4	EB SHOULDER	172+00	175+40	171+62.5	175+52.5		125.0		1	1	3	2	50.0	25.0						1	1		172+00	175+55	355	Need to widen the shoulder along the entire length				
3.7	EB SHOULDER ROUTE 9	179+80	186+75	179+80	186+87.5		25.0		1	1				662.5									186+75	186+87.5	15	See Installation Note 1 and Note 2. Widen shoulder 15LF on trailing end for the installation of the Anchored End.				
3.8	EB SHOULDER END OF TP	192+60	n/a	192+62.5	N/A						2	1	12.5	25.0												Remove existing crash end, 25 LF of Guardrail. RMR additional 12.5 LF of Guardrail to parallel with main run. Install FLEAT 350 in same location as existing crash end.				
						TOTAL	1	837.5	887.5	9	10	27	19	300.0	1512.5	775.0	89	3	1	6	7	1			355.0	285.0				
						UNIT	EA	LF	LF	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	EA	EA			LF	LF				

GENERAL NOTES:
 1 - APPROXIMATE STATION IS THE LEADING END OF THE EXISTING TWISTED END, MELT, OR BRIDGE ENDOPOST WHEN EXITING, PRIOR TO PROPOSED WORK.
 2 - FOR ITEM 205.51 SHOULDER WIDENING, WIDEN SHOULDER AS INDICATED ON ABOVE SCHEDULE OR AS DIRECTED BY THE RESIDENT ENGINEER.
 3 - QUANTITY NOTED ON THIS SCHEDULE FOR 606.178 GUARDRAIL BEAM IS AN APPROXIMATE QUANTITY. REPLACE DAMAGED GUARDRAIL BEAMS AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER.
 4 - REPLACE ALL RIGID GUARDRAIL DELINEATOR POSTS WITH FLEXIBLE DELINEATORS.
 5 - INDICATED INSTALLATION LOCATION OF FLEAT UNITS REFERS TO LOCATION OF THE FLEAT CRASH HEAD.

INSTALLATION NOTES:
 1 - ADJUST ALL TYPE 3d GUARDRAIL TO 30-INCH ABOVE EDGE OF PAVEMENT AS REQUIRED OR AS DIRECTED BY THE RESIDENT. TRANSITION DOWN TO A RAIL HEIGHT OF 27-34" AT FLEAT 350 AND ANCHORED ENDS OVER 25 LF PRIOR TO TERMINAL END.
 2 - REMOVE EXISTING END SECTION AND STACK; INSTALL ANCHORED TRAILING END.
 3 - INSTALL ADDITIONAL GALVANIZED POSTS AND NEW OFFSET BLOCKS TO RAIL ALONG FACE OF BRIDGE PIER AND A MINIMUM OF 25 FEET EITHER SIDE OF PIER TO REDUCE POST SPACING TO 37.5-INCHES.
 4 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.
 5 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; EXTEND LEADING END WITH TYPE 3d GUARDRAIL AND INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.

Filename: 030_GR-Tables05.dgn

Scale:			
No.	Revision	By	Date

Designed by:					
					
By	Date	Checked	By	Date	
BAT	01/15	GJO	GJO	01/15	
Drawn	MPC	In Charge of	SRT	01/15	

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 SCHEDULE OF GUARDRAIL LIMITS
 EXIT 52 AND FALMOUTH SPUR II

SHEET NUMBER: G-9
 CONTRACT: 2015.01
 30 OF 69

Date: 1/22/2015

RAMP C AND WESTBOUND SCHEDULE OF SHOULDER GUARDRAIL IMPROVEMENTS																								
MILE MARKER	LOCATION DESCRIPTION	LOCATION OF WORK				ITEM 606.178 GUARDRAIL BEAM	ITEM 606.24 GUARDRAIL TYPE 3d- SINGLE RAIL	ITEM 606.2652 TERMINAL END - REMOVE & STACK	ITEM 606.278 TERMINAL END- ANCHORED END	ITEM 606.353 DELINEATOR POST - NEW	ITEM 606.355 - DELINEATOR POST - REMOVE AND STACK	ITEM 606.3605 GUARDRAIL, SINGLE RAIL - REMOVE, MODIFY AND RESET	ITEM 606.3621 GUARDRAIL ADJUST - SINGLE RAIL	ITEM 606.3631 - GUARDRAIL REMOVE & DISPOSE	ITEM 606.471 SINGLE OFFSET BLOCK - W BEAM	ITEM 606.48 SINGLE GALVANIZED STEEL POST	ITEM 606.701 ASYMMETRICAL THRIE BEAM TRANSITION	ITEM 606.754 WIDEN SHOULDER FOR GUARDRAIL 350 FLARED TERMINAL	ITEM 606.80 GUARDRAIL 350 FLARED TERMINAL	ITEM 205.51 WIDEN SHOULDER			DESCRIPTION OF WORK	
		EXISTING		PROPOSED																BEGIN STATION	END STATION	QUANTITY		
		APPROX. STATION	APPROX. STATION OF TERMINAL END OR ENDPOST	STATION LEADING END	STATION TRAILING END																			
FALMOUTH SPUR WESTBOUND																								
3.8	END OF TURNPKE	N/A	193+00	N/A	187+15		575.0	1														Remove and stack Trailing End - Terminal End. Connect existing trailin end with leading end at STA 187+65		
3.7	ROUTE 9	187+65	185+80	N/A	185+67.5	87.5		1	1	1	2	50	112.5	25.0	32	14						See Installation Note 1, Note 2, and Note 3.		
2.5	WEST BOUND SHOULDER	119+50	112+75	119+62.5	112+00		62.5	1	1	3	2	75		25.0				1	1	112+75	112+00	75	See Installation Note 1 and Note 2. Extend Trailing End and widen shoulder for 75 LF to STA 112+00.	
2.1	WEST BOUND SHOULDER	105+30	98+80	105+42.5	98+67.5			1	1	3	2	50		25.0				1	1				See Installation Note 2. R/S twisted end and install FLEAT 350.	
1.7	FALMOUTH ROAD	81+80	83+80	83+80	77+47.5		412.5	1	1	3	2	75		25.0				1	1				See Installation Note 2. R/S twisted end, extend Guardrail and install FLWAT 350 at STA 83+80. Extend trailing end to 77+47.5.	
1.0	WEST BOUND SHOULDER	42+20	40+40	42+37.5	40+27.5		25.0	1	1	3	2	75	87.5	25.0				1	1				See Installation Notes 1 and Note 2.	
0.8	AUBURN STREET	32+00	29+00	32+37.5	28+87.5		25.0	1	1	3	2	275		25.0	14	14		1	1				See Installation Note 2, Note 3 and Note 5. Remove Modify and Reset all Type 3d Guardrail to 1-6" offset from edge of pavement.	
0.7	WEST BOUND SHOULDER	25+35	19+50	25+35	19+50								525.0										See Installation Note 1.	
0.6	PAN AM RR BRIDGE/BLACK STRAP BRIDGE	12+45	7+45	12+45	7+45							450.0								2			See Installation Note 1. Install Asymmetrical Transition Panels at Bridge End Posts.	
EXIT 52 RAMP C NORTHBOUND ENTERING, OUTSIDE SHOULDER WORK																								
0.2	RAMP C NORTHBOUND ENTERING	10+90	46+90	10+90	47+02.5	125.0		1	1	1	1		125.0									15	See Installation Notes 1 and Note 2.	
0.2	RAMP C NORTHBOUND ENTERING	43+10	40+05	43+10	40+05	50.0				3	3		300.0									2	See Installation Note 1.	
EXIT 52 RAMP C NORTHBOUND ENTERING, INSIDE SHOULDER WORK																								
0.2	RAMP C NORTHBOUND ENTERING	47+50	43+30	47+50	43+42.5			1	1	1	1												See Installation Note 2.	
						TOTAL	212.5	1,100.0	9	8	21	18	600.0	1600.0	150	46	28	5	5	5		90.0		
						UNIT	LF	LF	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	EA	EA		LF		

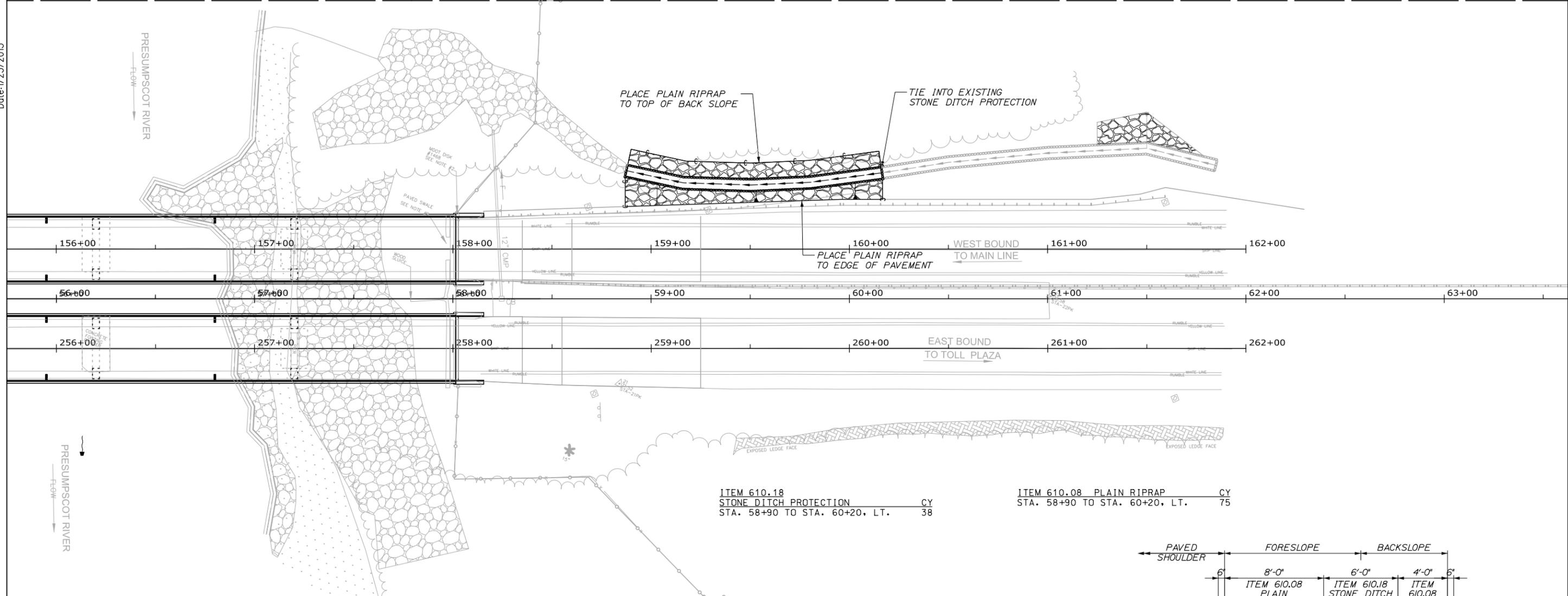
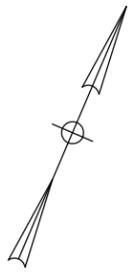
GENERAL NOTES:
 1 - APPROXIMATE STATION IS THE LEADING END OF THE EXISTING TWISTED END, MELT, OR BRIDGE ENDPOST WHEN EXITING, PRIOR TO PROPOSED WORK.
 2 - FOR ITEM 205.51 SHOULDER WIDENING, WIDEN SHOULDER AS INDICATED ON ABOVE SCHEDULE OR AS DIRECTED BY THE RESIDENT ENGINEER.
 3 - QUANTITY NOTED ON THIS SCHEDULE FOR 606.178 GUARDRAIL BEAM IS AN APPROXIMATE QUANTITY. REPLACE DAMAGED GUARDRAIL BEAMS AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER.
 4 - REPLACE ALL RIGID GUARDRAIL DELINEATOR POSTS WITH FLEXIBLE DELINEATORS.
 5 - INDICATED INSTALLATION LOCATION OF FLEAT UNITS REFERS TO LOCATION OF THE FLEAT CRASH HEAD.

INSTALLATION NOTES:
 1 - ADJUST ALL TYPE -3d GUARDRAIL TO 30-INCH ABOVE EDGE OF PAVEMENT AS REQUIRED OR AS DIRECTED BY THE RESIDENT. TRANSITION DOWN TO A RAIL HEIGHT OF 27-3/4" AT FLEAT 350 AND ANCHORED ENDS OVER 25 LF PRIOR TO TERMINAL END.
 2 - REMOVE EXISTING END SECTION AND STACK; INSTALL ANCHORED TRAILING END.
 3 - INSTALL ADDITIONAL GALVANIZED POSTS AND NEW OFFSET BLOCKS TO RAIL ALONG FACE OF BRIDGE PIER AND A MINIMUM OF 25 FEET EITHER SIDE OF PIER TO REDUCE POST SPACING TO 37.5-INCHES.
 4 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.
 5 - REMOVE EXISTING CRASH END ON LEADING END AND STACK; EXTEND LEADING END WITH TYPE-3d GUARDRAIL AND INSTALL FLEAT 350 WITH CRASH HEAD AT LOCATION INDICATED.

Scale:		Designed by:				MAINE TURNPIKE AUTHORITY 2360 Congress Street Portland, ME 04102 TEL (207) 871-7771 FAX (207) 879-5567				THE GOLD STAR MEMORIAL HIGHWAY		PAVEMENT REHABILITATION CLEAR ZONE IMPROVEMENTS SCHEDULE OF GUARDRAIL LIMITS EXIT 52 AND FALMOUTH SPUR III				SHEET NUMBER: G-10 CONTRACT: 2015.01		31 OF 69	
No.	Revision	By	Date																
				Designed	BAT 01/15	Checked	GJO 01/15												
				Drawn	MPC 01/15	In Charge of	SRT 01/15												

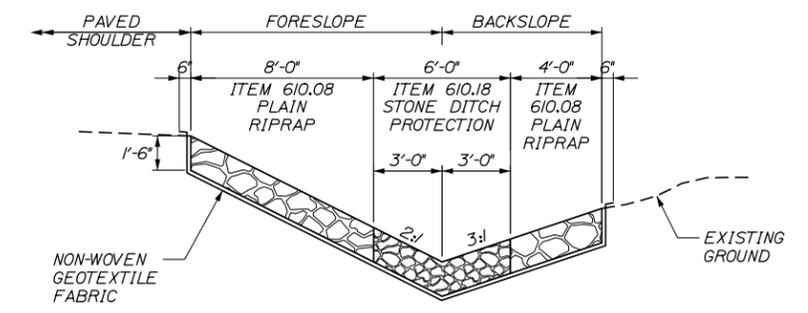
Filename: 031_GR-Tables06.dgn

Date: 1/23/2015



ITEM 610.18
STONE DITCH PROTECTION
STA. 58+90 TO STA. 60+20, LT. CY 38

ITEM 610.08 PLAIN RIPRAP CY 75
STA. 58+90 TO STA. 60+20, LT.



SLOPE AND DITCH REPAIR
1/4" = 1'-0"

Filename: 032_PresumpscotPlan.dgn

No.	Revision	By	Date

Designed by:

By	Date	Checked	Date
JRL	01/15	GJO	01/15
Drawn	MPC	In Charge of	SRT
	01/15		01/15

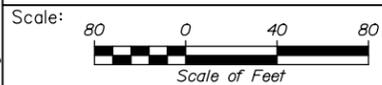
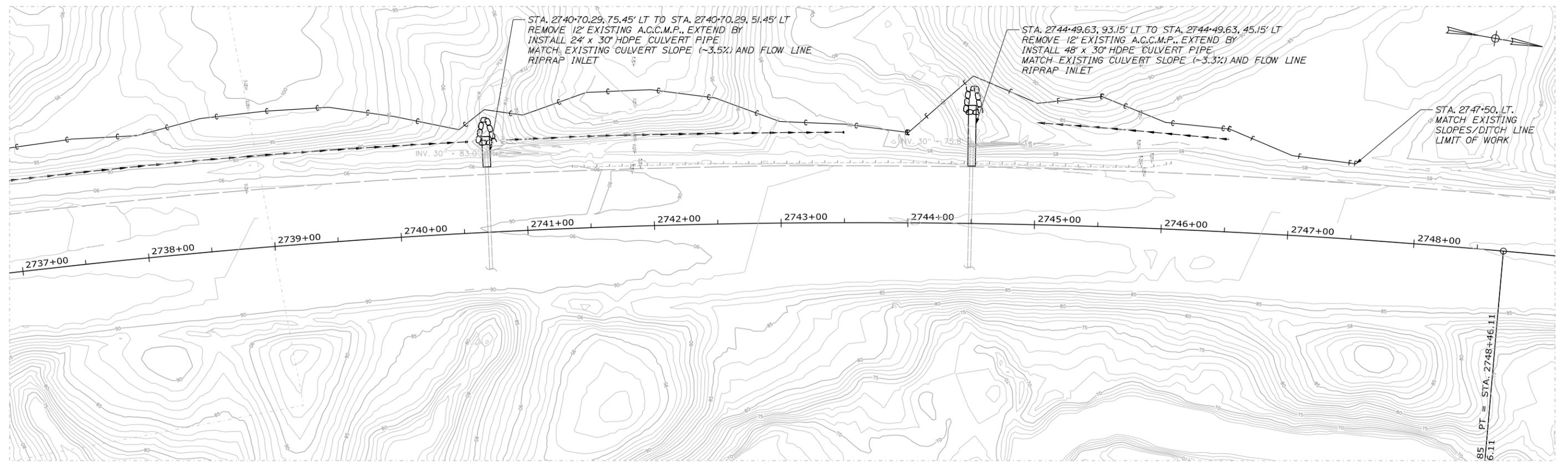
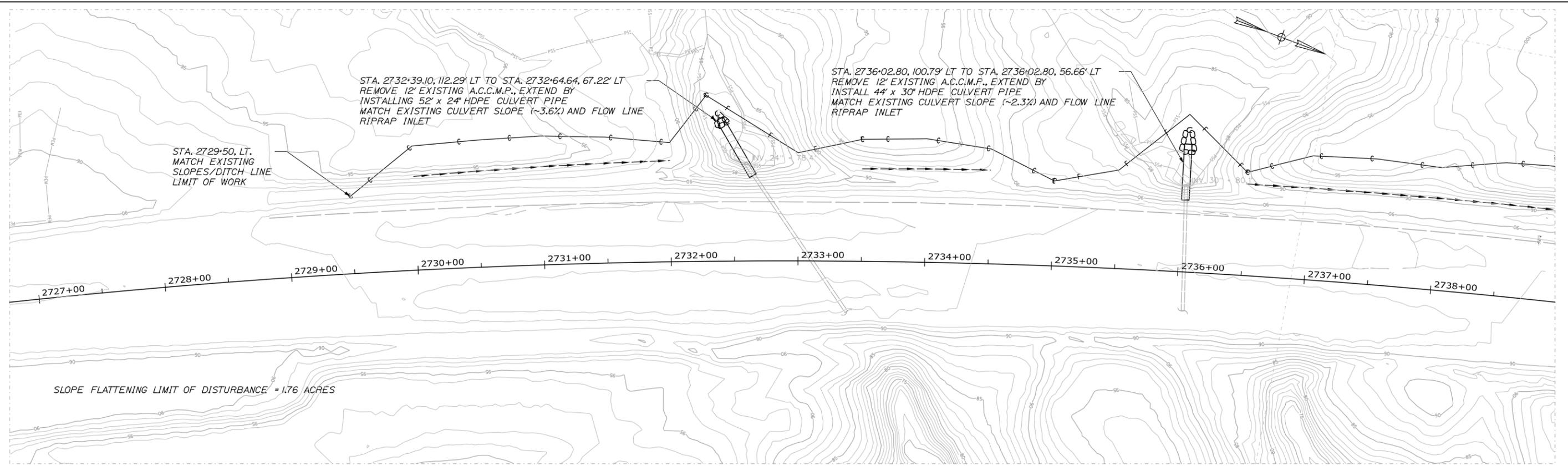
MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567

	<h2>THE GOLD STAR MEMORIAL HIGHWAY</h2>
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.	

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
PRESUMPCOT RIVER DITCH PLAN

SHEET NUMBER: D-1
CONTRACT: 2015.01
32 OF 69

Date: 1/22/2015



Designed by:



MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

**PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS**

GENERAL PLAN

CONTRACT: 2015.01

SHEET NUMBER: CZ-2

33 OF 69

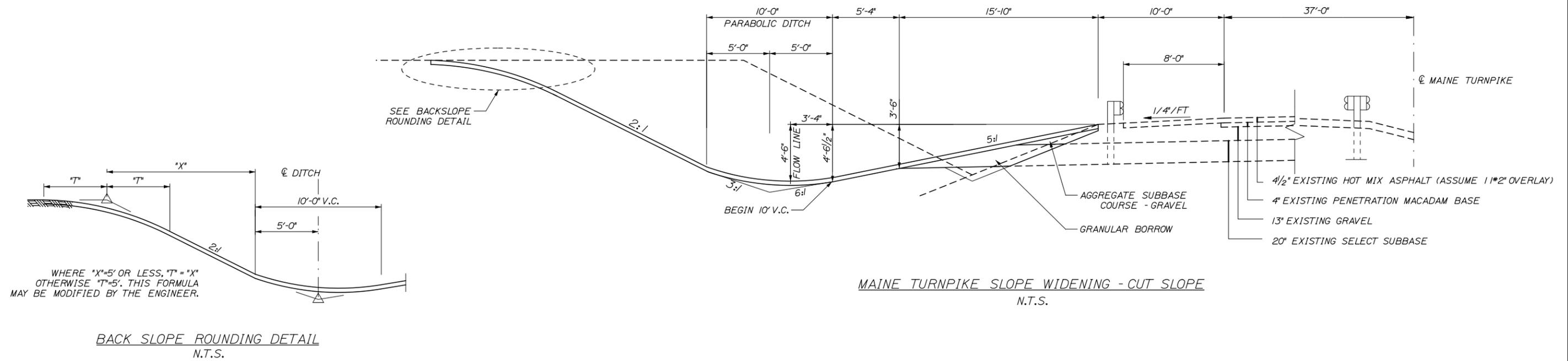
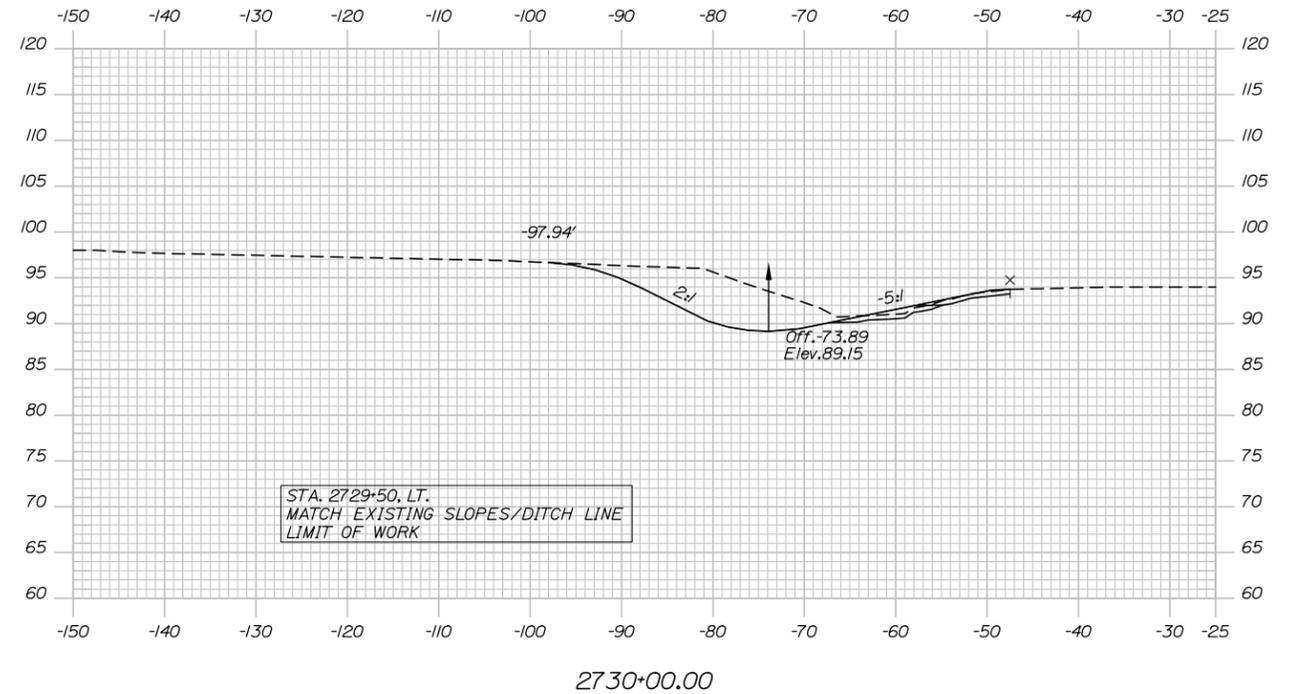
Filename: 033_Plan.dgn

No.	Revision	By	Date

	By	Date		By	Date
Designed	BAT	01/15	Checked	JRL	01/15
Drawn	RWH	01/15	In Charge of	SRT	01/15

Date: 1/22/2015

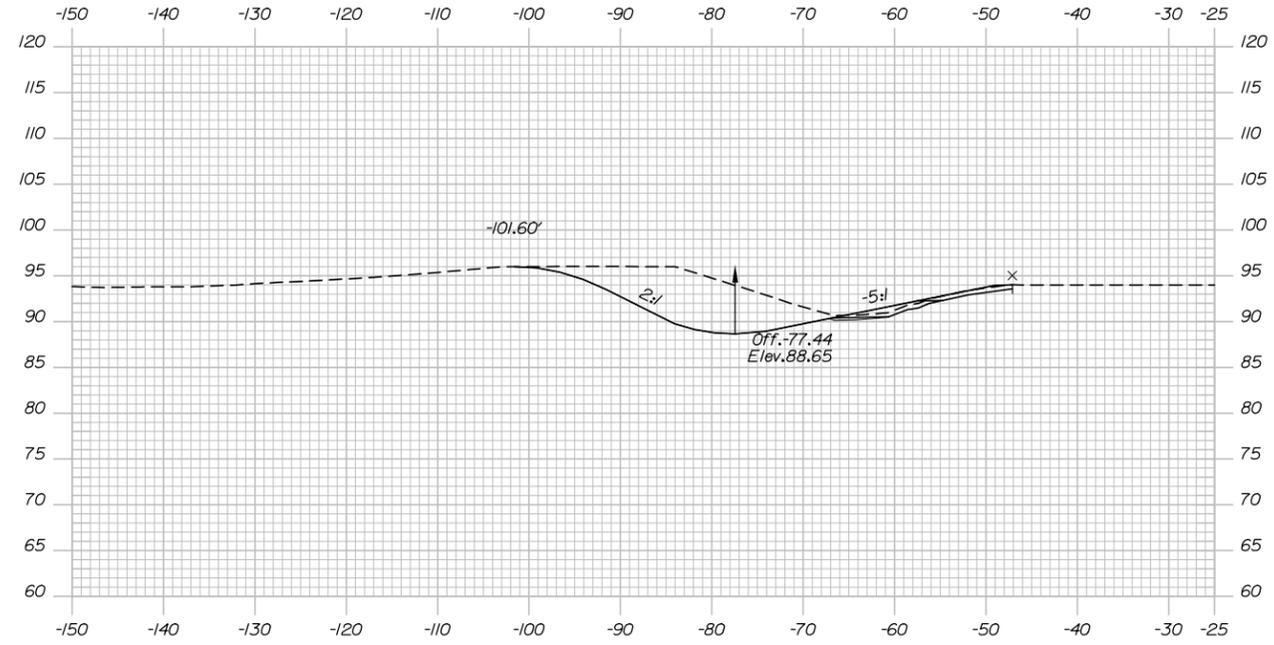
COMMON EXCAVATION FOR ESTIMATE		SLOPE FLATTENING	
COMMON EXCAVATION (FROM CROSS SECTIONS)		4,369	
GRUBBING IN FILL		269	
TOTAL COMMON EXCAVATION			4,638
ITEM 203.20 COMMON EXCAVATION	SAY		4,650 cy
FILL FOR BORROW CALCULATIONS			
COMMON FILL (FROM CROSS SECTIONS)		1,593	
GRUBBING IN FILL		269	
TOTAL FILL			1,862 cy
AVAILABLE COMMON EXCAVATION FOR BORROW CALCULATIONS			
(1) TOTAL COMMON EXCAVATION			4,638
DEDUCTIONS:			
GRUBBING IN CUT		361	
GRUBBING IN FILL		269	
(2) TOTAL DEDUCTIONS			630
TOTAL AVAILABLE COMMON EXCAVATION (1) MINUS (2)			4,008
TOTAL AVAILABLE NON-ROCK EXCAVATION			4,008 cy
COMPUTATION OF GRANULAR BORROW FOR ESTIMATE			
GRANULAR BORROW FOR ROADWAY TEMPLATE		502	
GRANULAR BORROW =		502 x 1.15 =	577
ITEM 203.25 GRANULAR BORROW	SAY		580 cy
COMPUTATION FOR COMMON BORROW FOR ESTIMATE			
(3) TOTAL FILL			1,862
TOTAL AVAIL. NON-ROCK EXCAV.		4,008 x 0.85 =	3,407
(4) TOTAL AVAILABLE EXCAVATION		=	3,407 cy
BORROW NEEDED = TOTAL FILL MINUS TOTAL AVAILABLE EXCAVATION, (3) MINUS (4)			
IF NO BORROW NEEDED, SURPLUS MATERIAL =			
(5) TOTAL AVAILABLE EXCAVATION MINUS TOTAL FILL (4) MINUS (3)			1,545
TOTAL PROJECT SURPLUS (NO BORROW NEEDED)			
(5) + (2)			2,175 cy



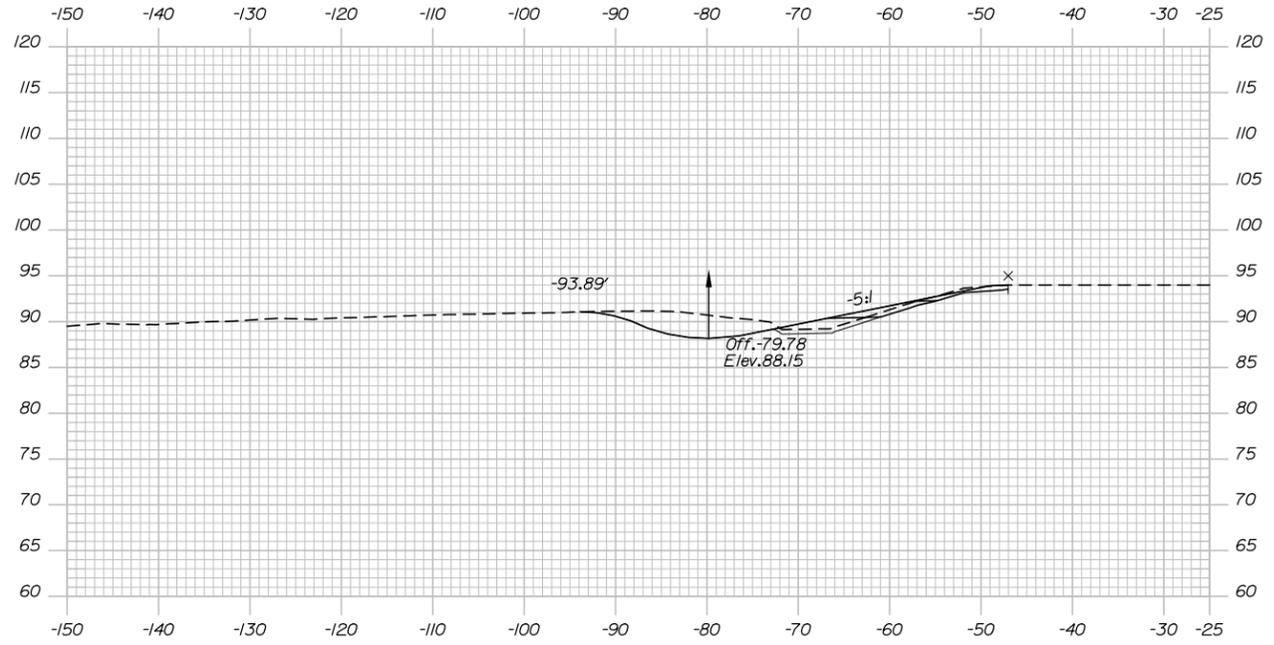
Scale: NOT TO SCALE		Designed by: 		MAINE TURNPIKE AUTHORITY 2360 Congress Street Portland, ME 04102 TEL (207) 871-7771 FAX (207) 879-5567		 THE GOLD STAR MEMORIAL HIGHWAY		PAVEMENT REHABILITATION CLEAR ZONE IMPROVEMENTS TYPICAL SECTION & CROSS SECTION STA.. 2730+00	
No.	Revision	By	Date	By	Date	MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.		SHEET NUMBER: CZ-2	
				Designed	BAT 01/15	Checked	JRL 01/15	CONTRACT: 2015.01	
				Drawn	RWH 01/15	In Charge of	SRT 01/15	94 OF 99	

Date: 1/22/2015

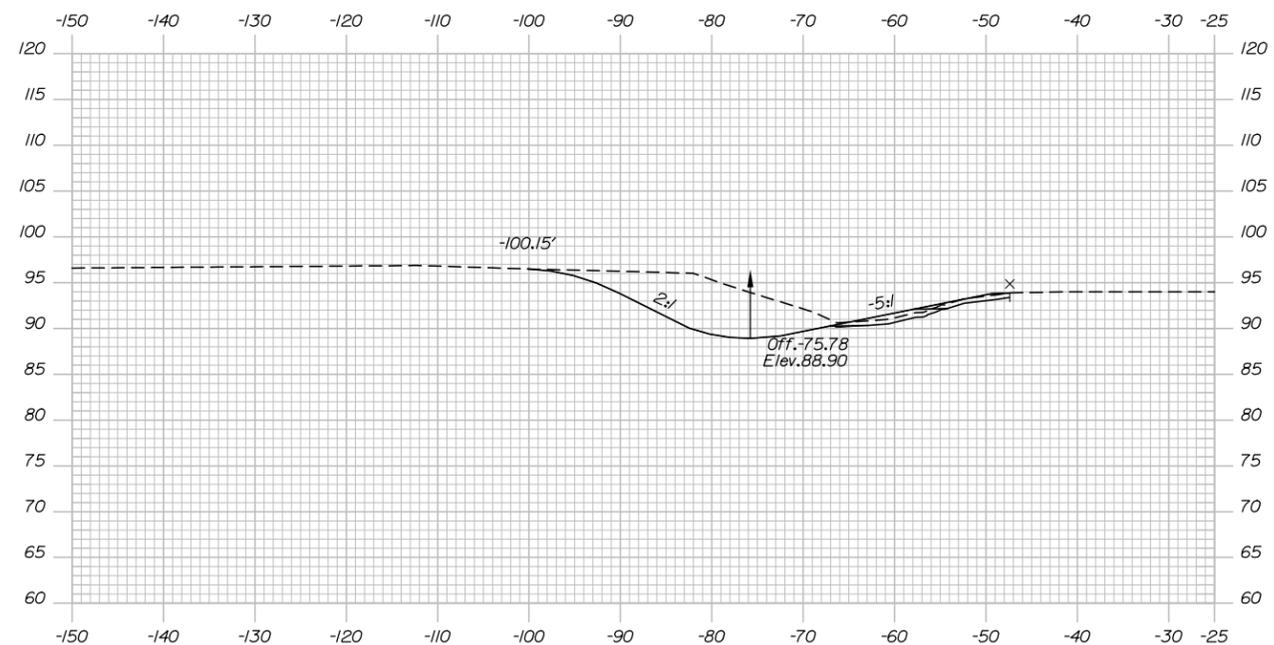
Filename: xsec.dgn



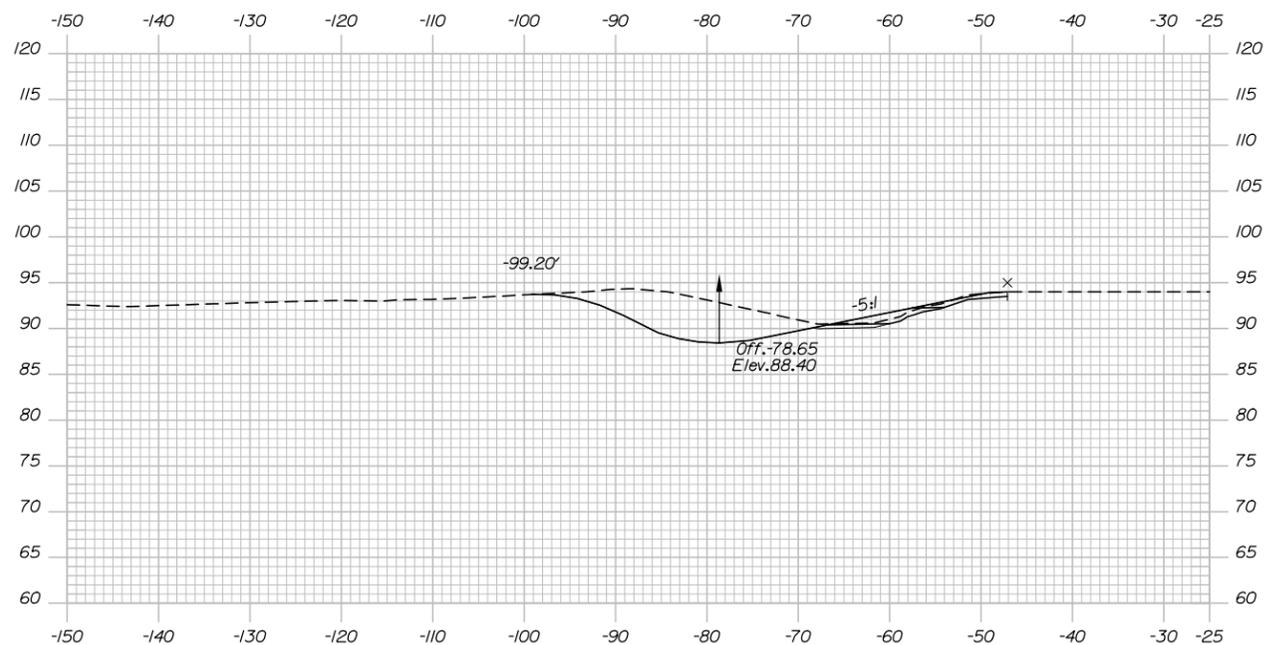
2731+00.00



2732+00.00



2730+50.00



2731+50.00

Scale: NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



**THE GOLD STAR
MEMORIAL HIGHWAY**

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
CROSS SECTIONS
STA. 2730+50 TO STA. 2732+00

No.	Revision	By	Date

	By	Date		By	Date
Designed	BAT	01/15	Checked	JRL	01/15
Drawn	RWH	01/15	In Charge of	SRT	01/15

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

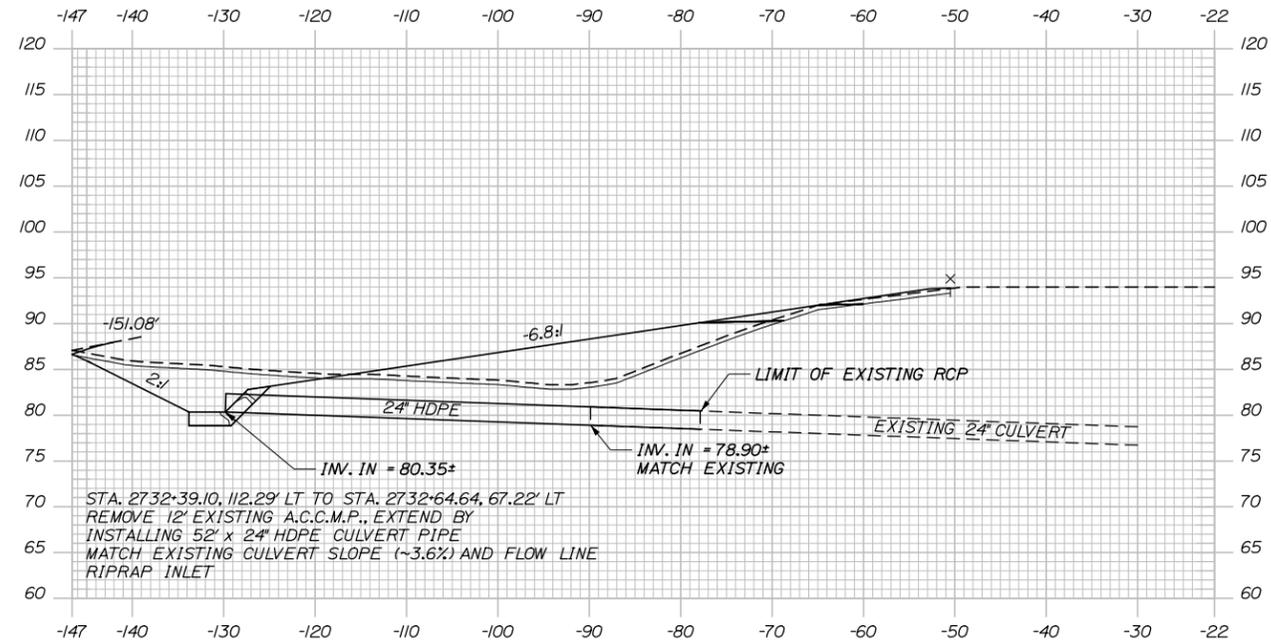
CONTRACT: 2015.01

SHEET NUMBER: CZ-3

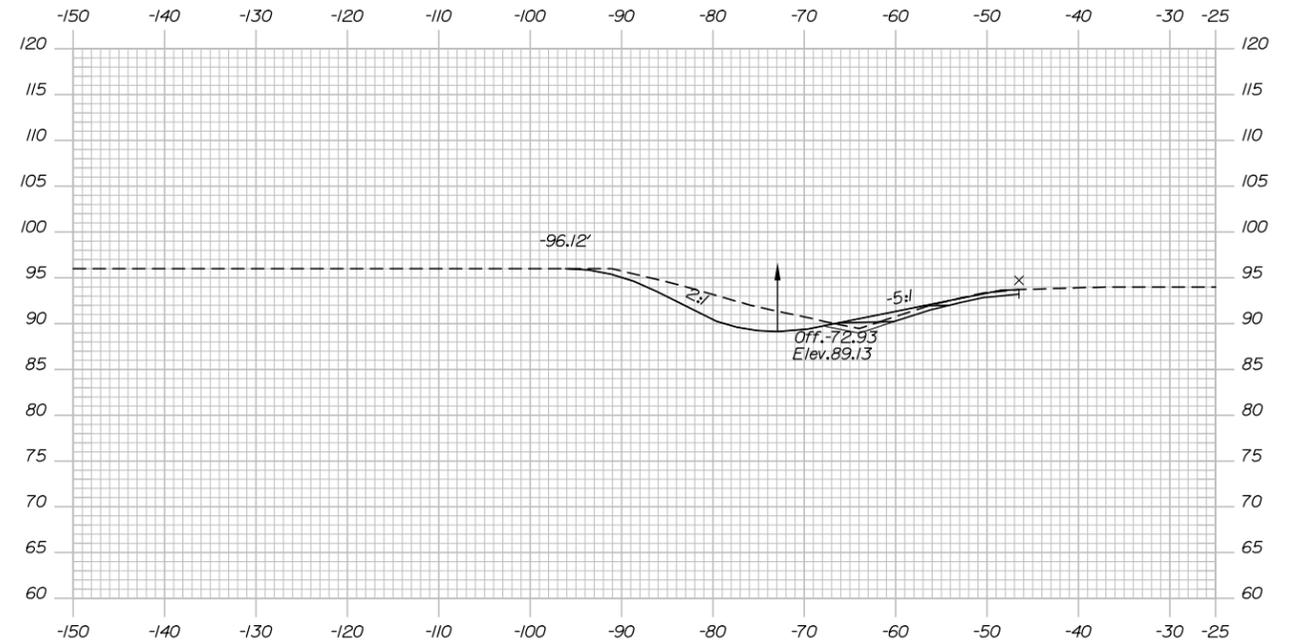
35 OF 69

Date: 1/22/2015

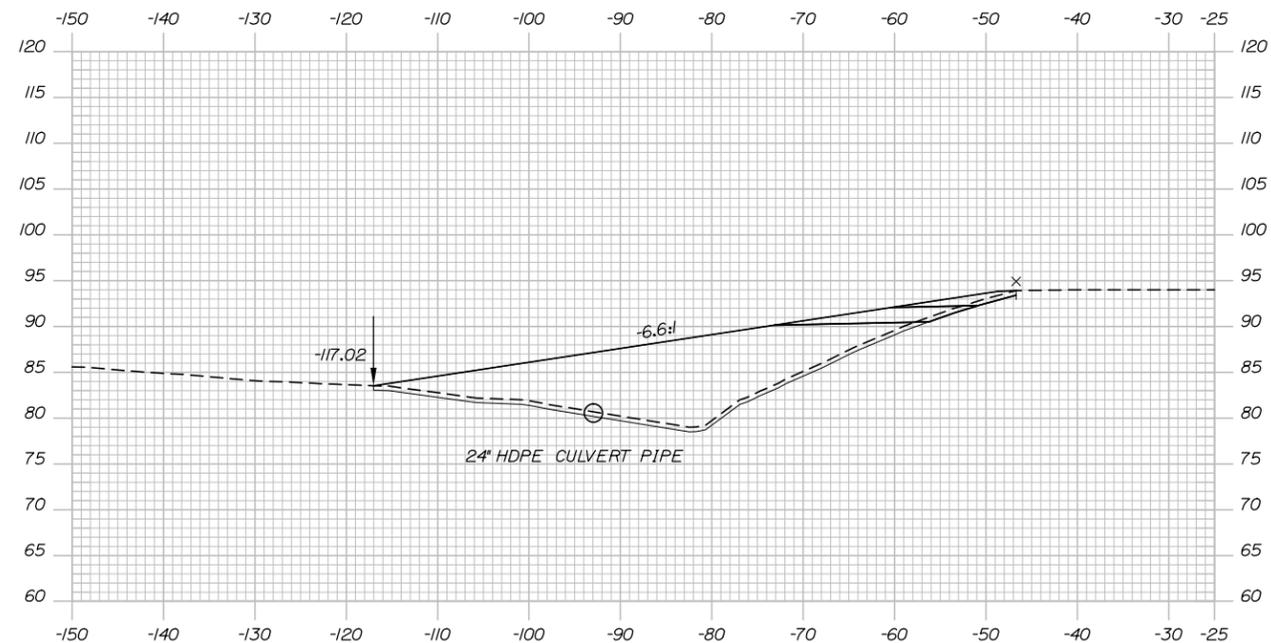
Filename: xsec.dgn



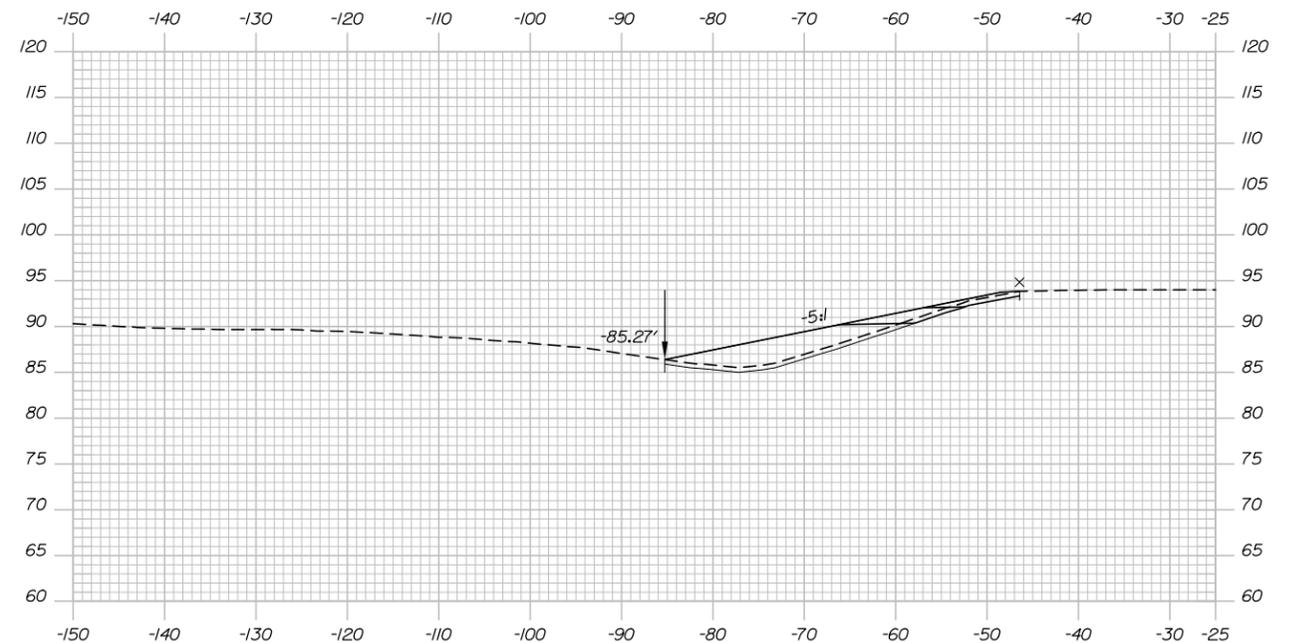
2732+76.43



2733+50.00



2732+50.00



2733+00.00

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

	By	Date		By	Date
	BAT	01/15	Checked	JRL	01/15
	RWH	01/15	In Charge of	SRT	01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



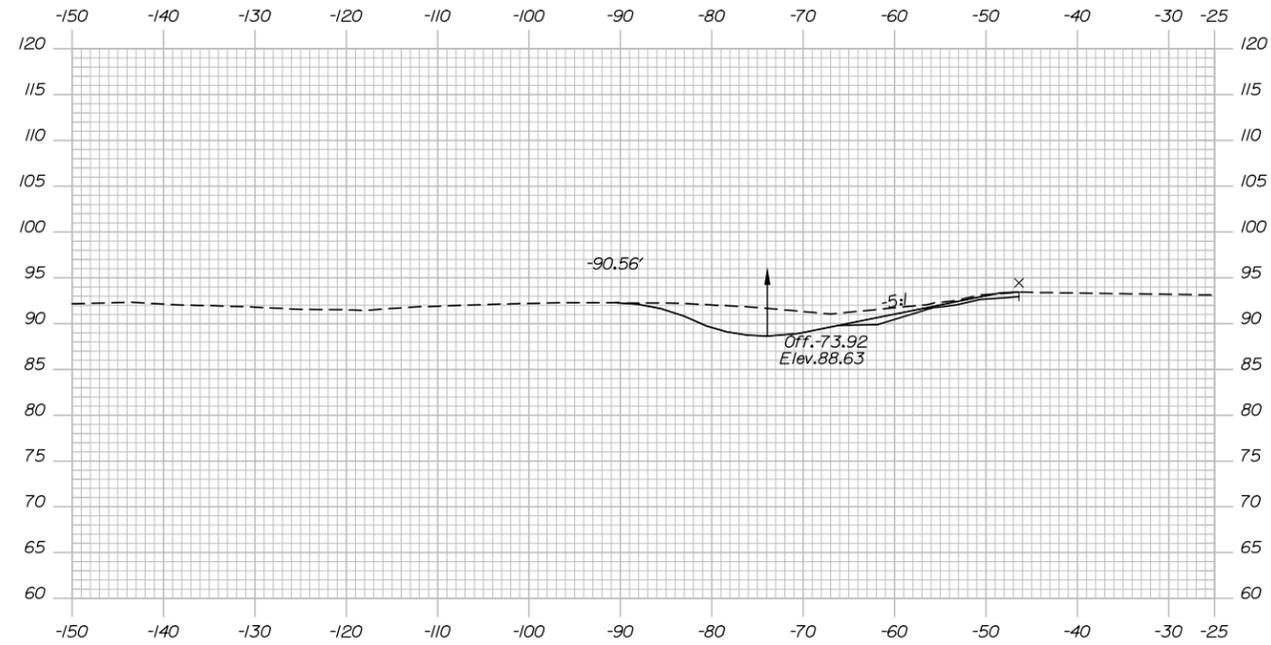
**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

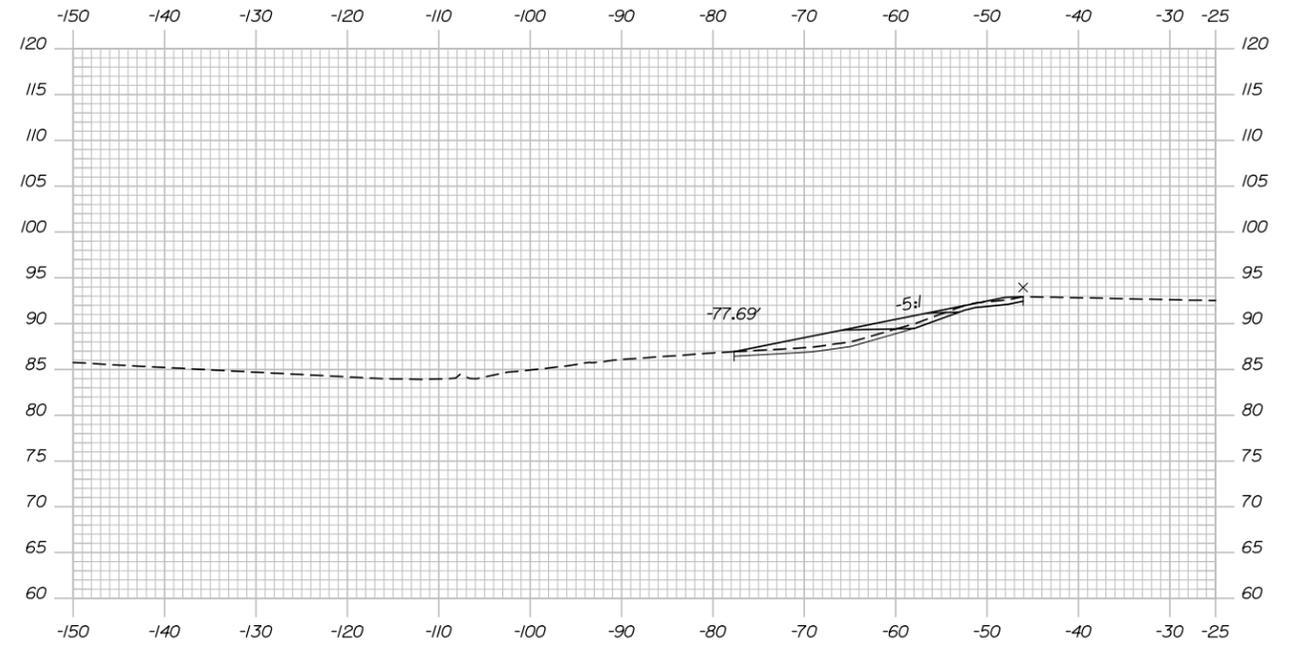
PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 CROSS SECTIONS
 STA.. 2732+50 TO STA.2733+50

SHEET NUMBER: CZ-4
 CONTRACT:2015.01
 36 OF 69

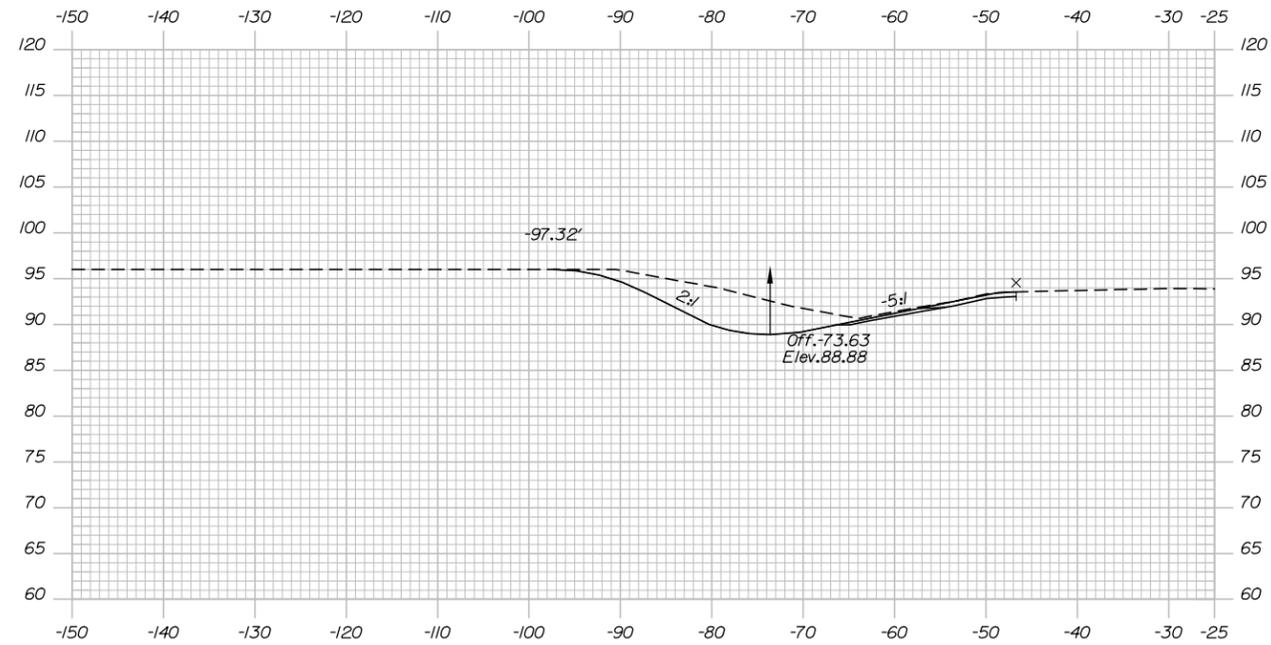
Date: 1/22/2015



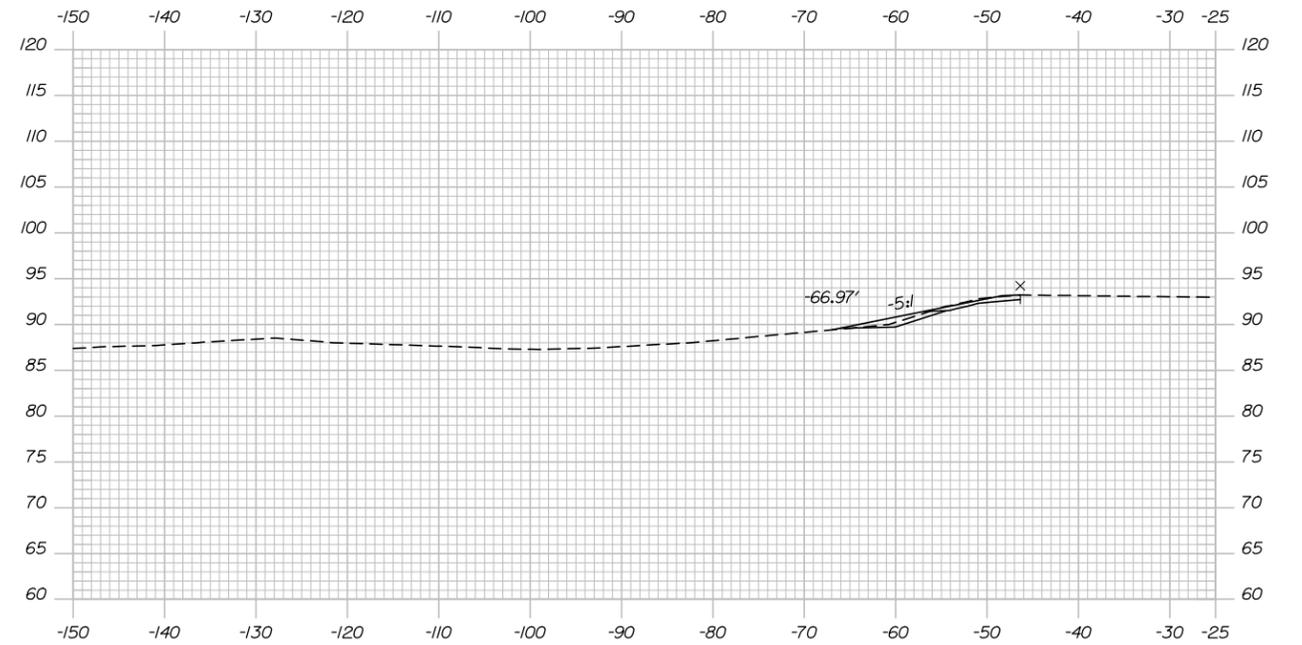
2734+50.00



2735+50.00



2734+00.00



2735+00.00

Scale: NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



**THE GOLD STAR
MEMORIAL HIGHWAY**

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
CROSS SECTIONS
STA.. 2734+00 TO STA.2735+50

No.	Revision	By	Date

	By	Date	By	Date	
Designed	BAT	01/15	Checked	JRL	01/15
Drawn	RWH	01/15	In Charge of	SRT	01/15

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

CONTRACT: 2015.01

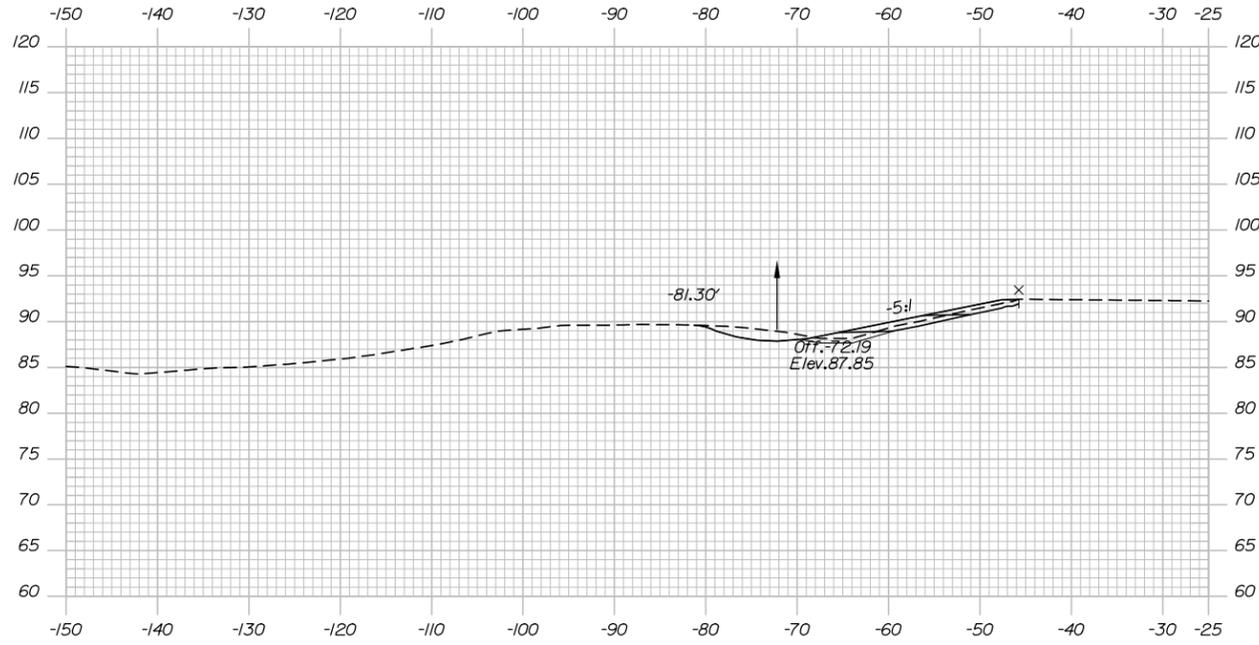
SHEET NUMBER: CZ-5

37 OF 69

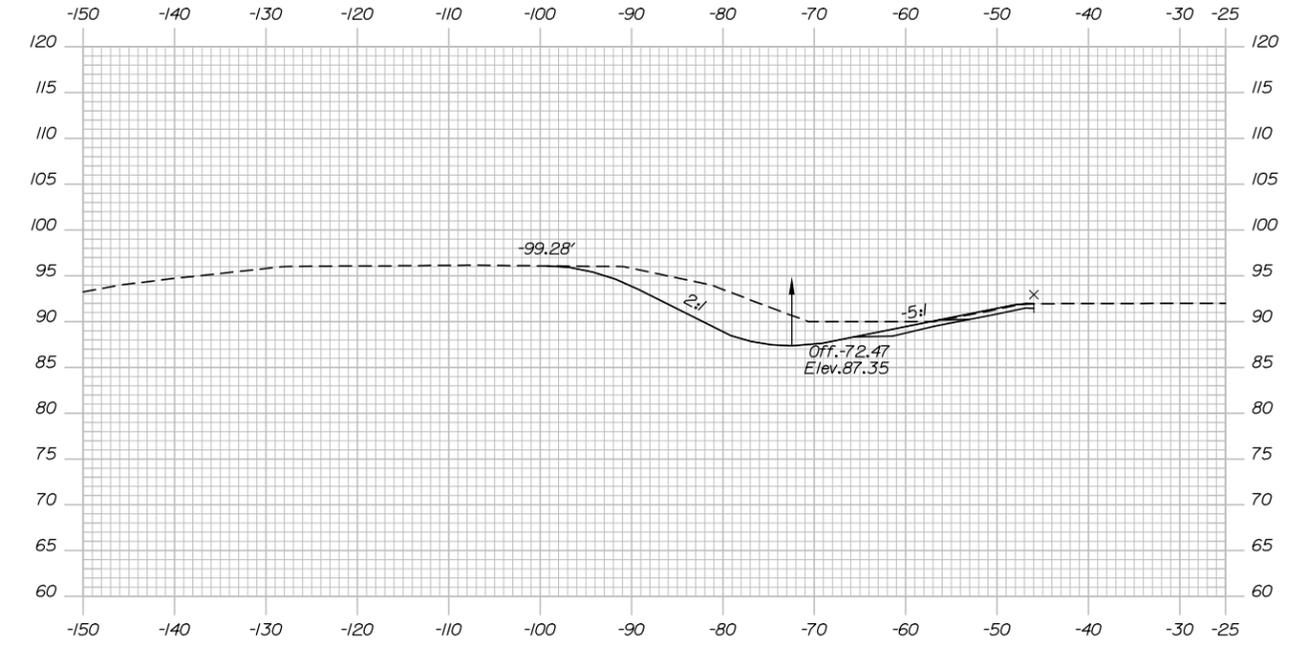
Filename: xsec.dgn

Date: 1/22/2015

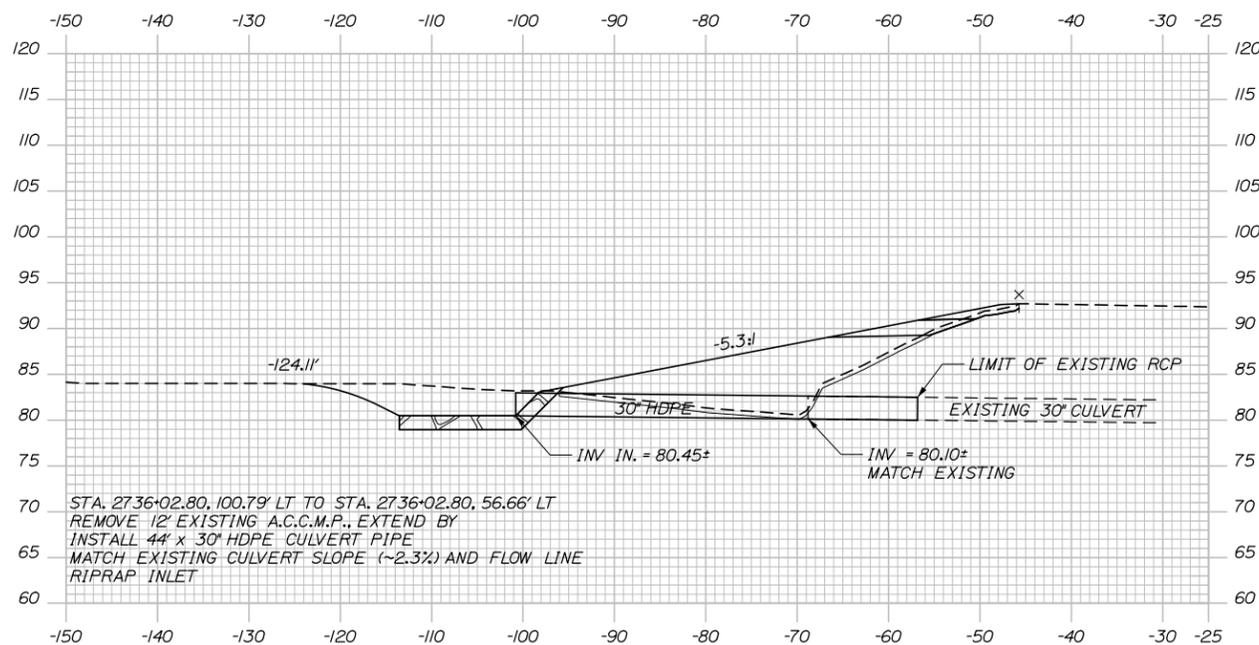
Filename: xsec.dgn



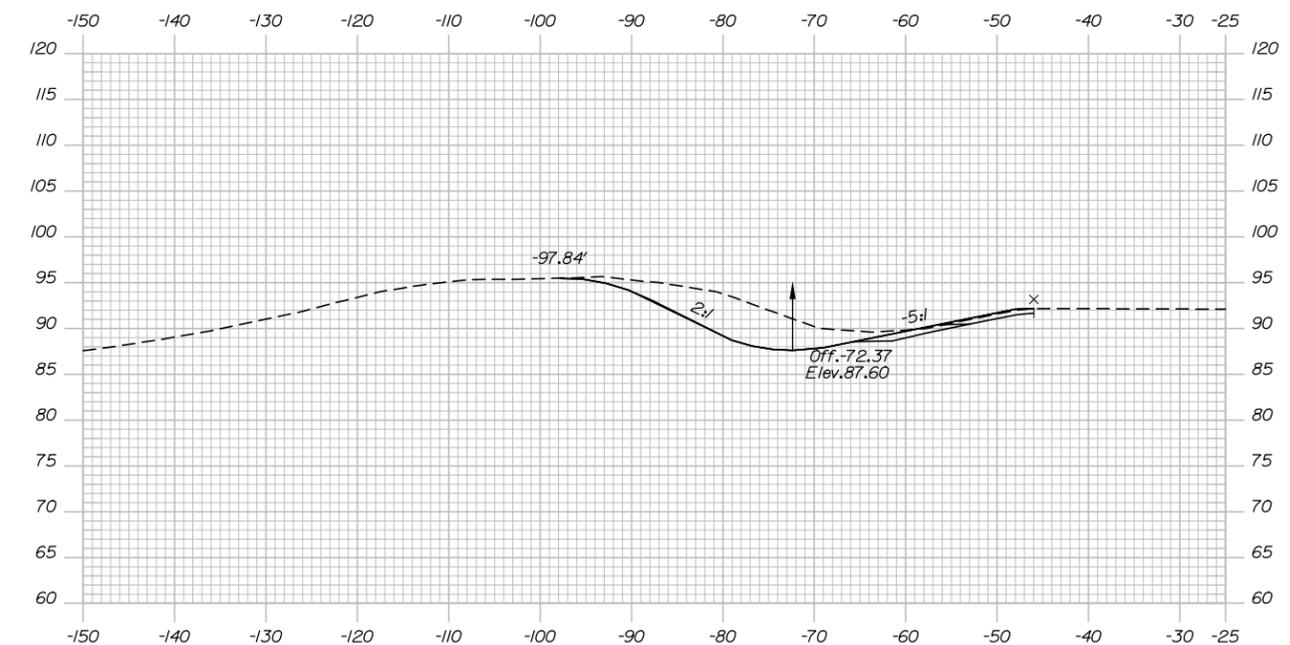
2736+50.00



2737+50.00



2736+00.00



2737+00.00

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

	By	Date		By	Date
	BAT	01/15	Checked	JRL	01/15
	RWH	01/15	In Charge of	SRT	01/15

MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



**THE GOLD STAR
 MEMORIAL HIGHWAY**

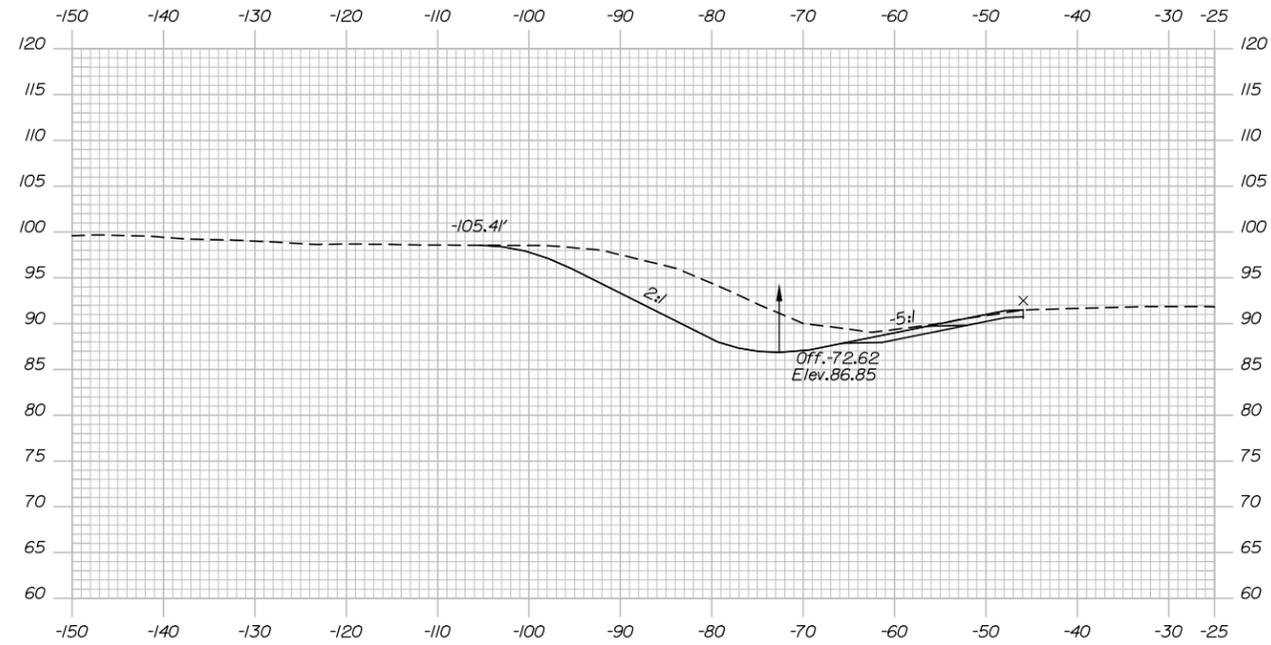
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 CROSS SECTIONS
 STA.. 2736+00 TO STA.2737+50

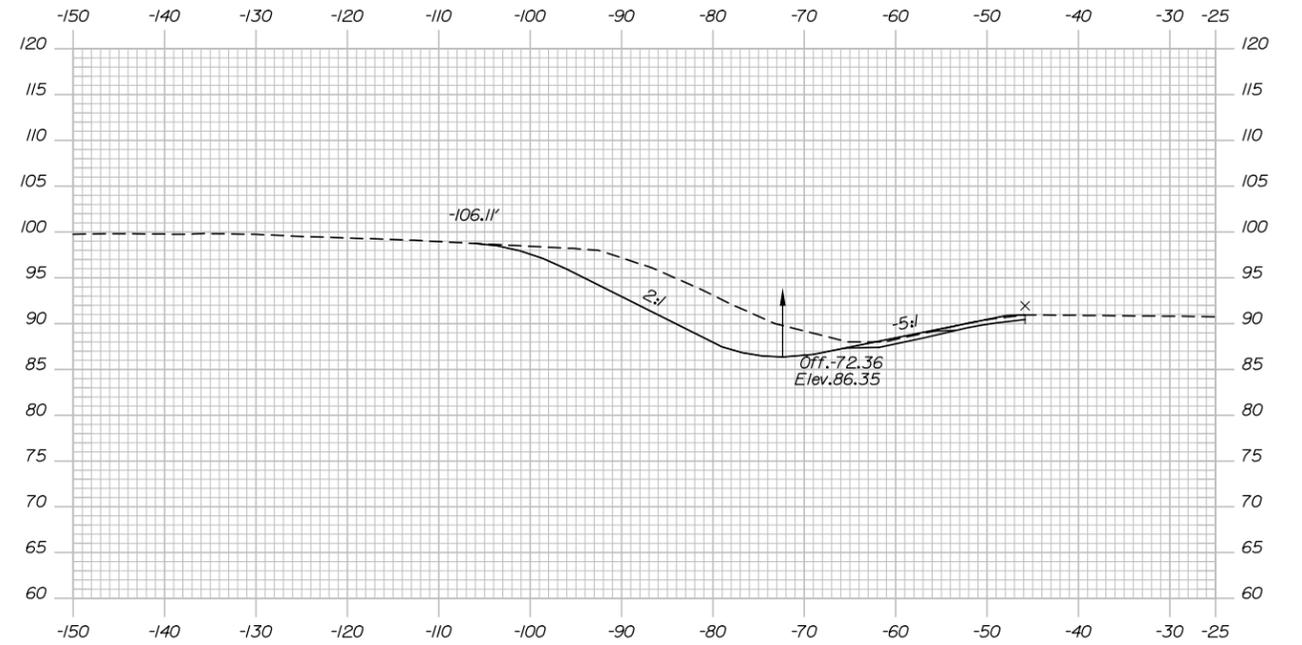
SHEET NUMBER: CZ-6
 CONTRACT:2015.01
 38 OF 69

Date: 1/22/2015

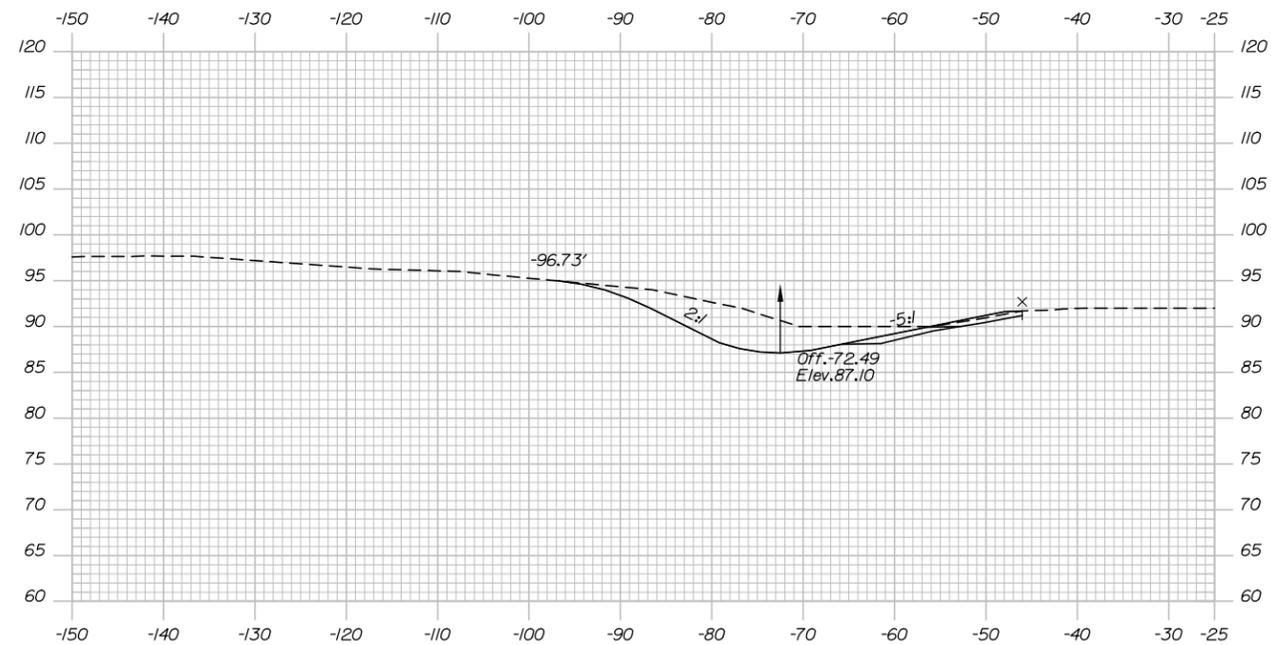
Filename: xsec.dgn



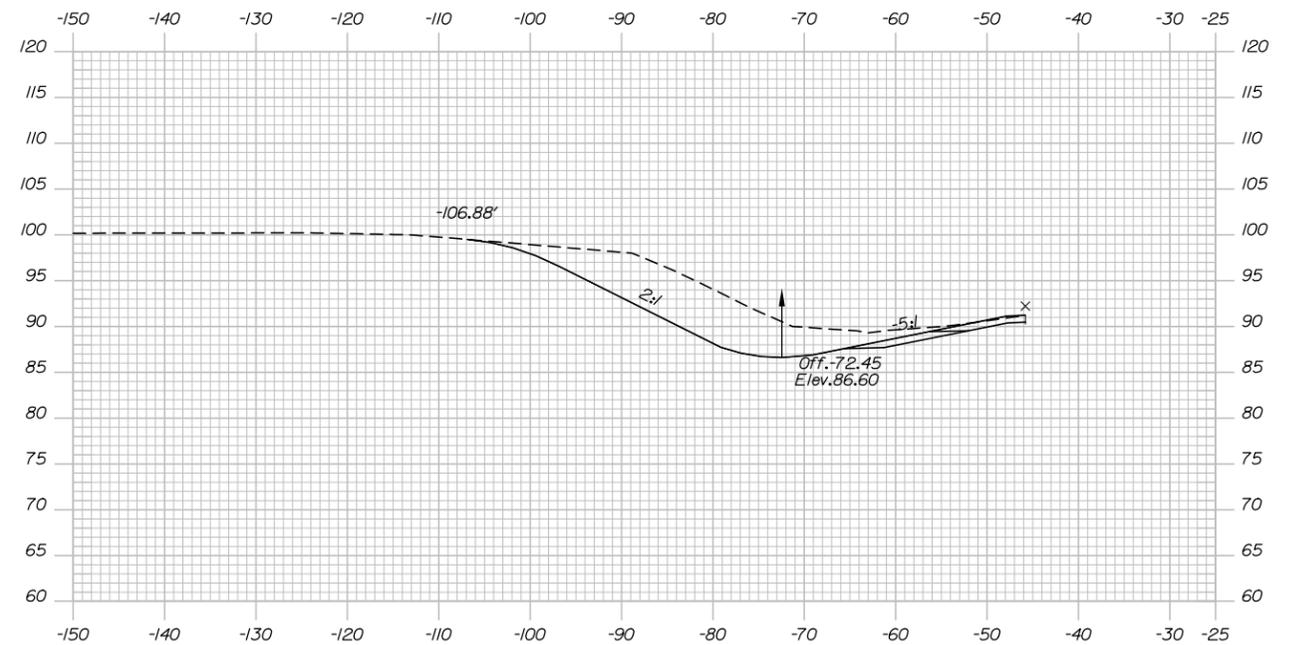
2738+50.00



2739+50.00



2738+00.00



2739+00.00

Scale: NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



**THE GOLD STAR
MEMORIAL HIGHWAY**

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
CROSS SECTIONS
STA.. 2738+00 TO STA.2739+50

No.	Revision	By	Date

	By	Date		By	Date
Designed	BAT	01/15	Checked	JRL	01/15
Drawn	RWH	01/15	In Charge of	SRT	01/15

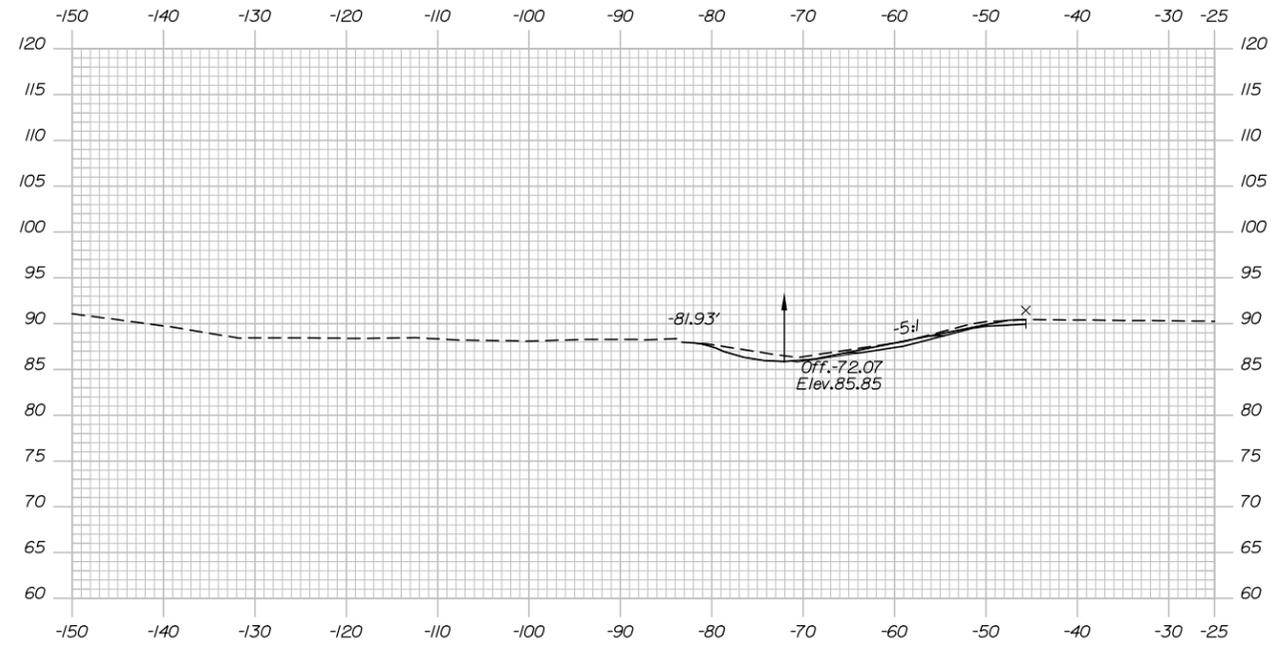
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

CONTRACT: 2015.01

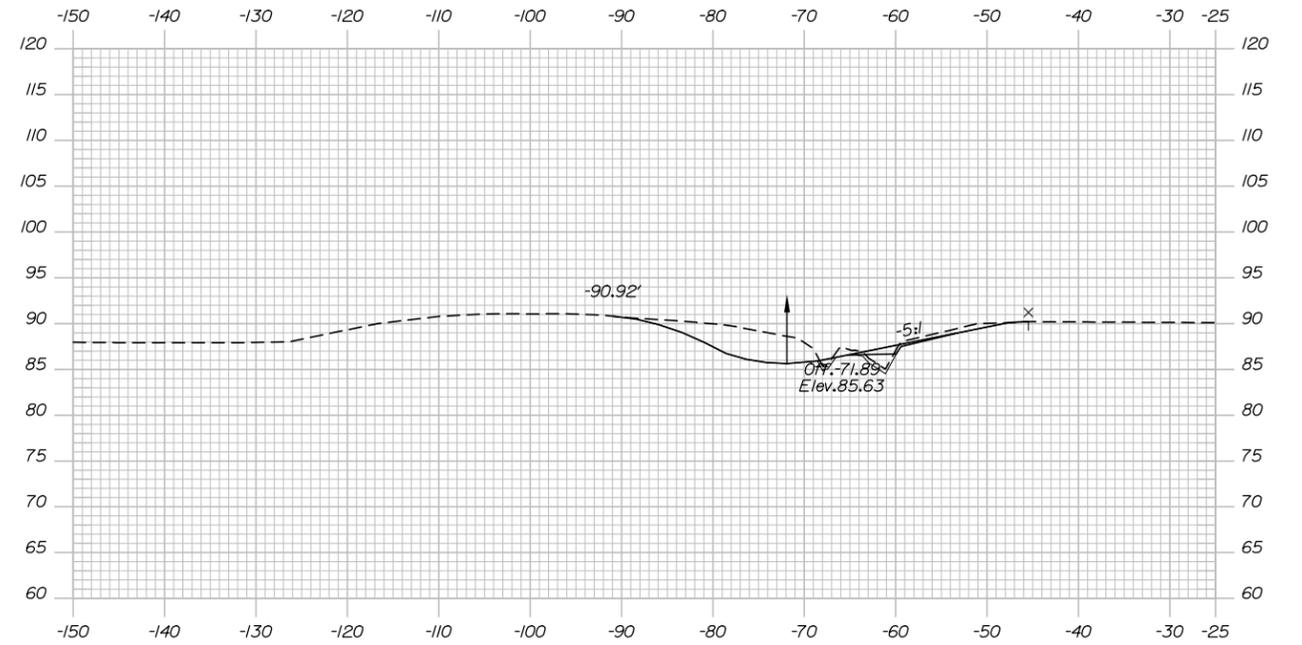
SHEET NUMBER: CZ-7

39 OF 69

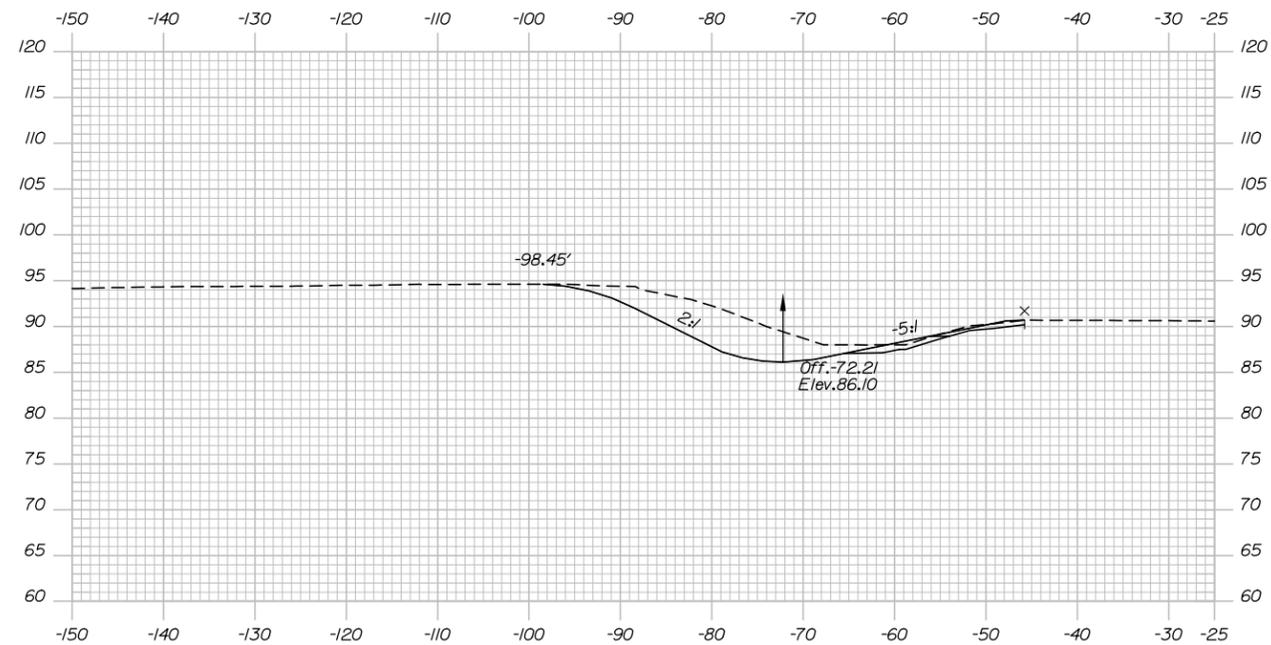
Date: 1/22/2015



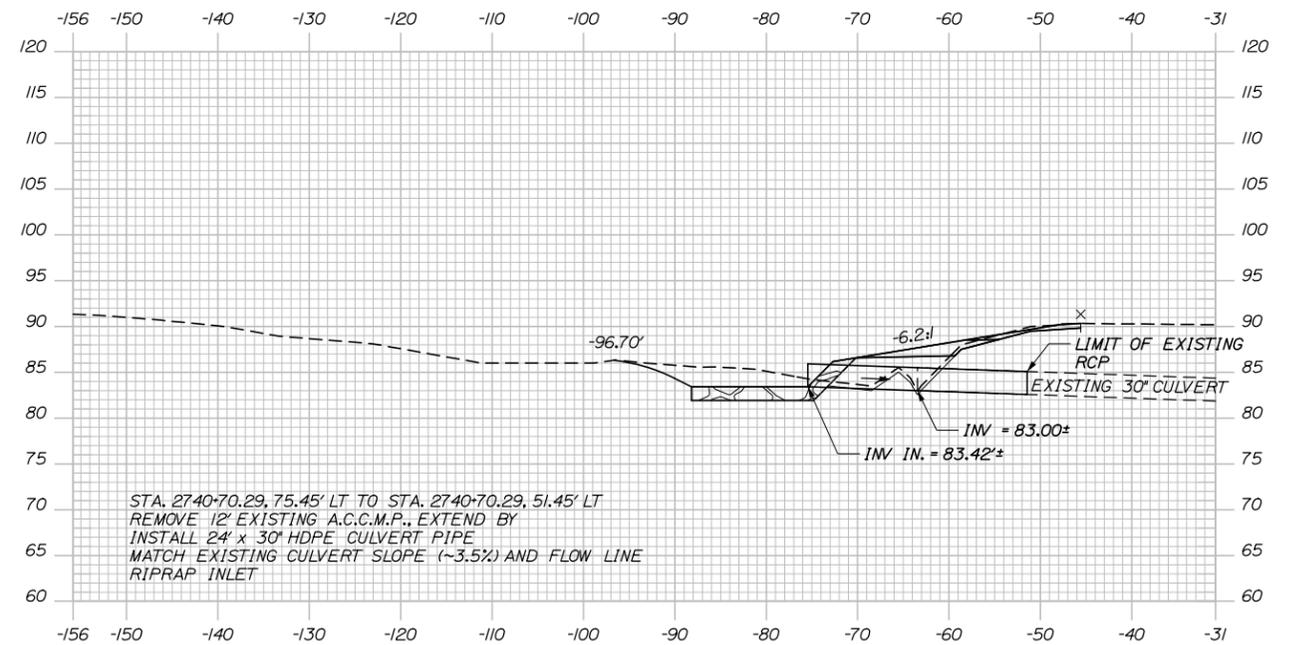
2740+50.00



2741+00.00



2740+00.00



2740+70.92

STA. 2740+70.29, 75.45' LT TO STA. 2740+70.29, 51.45' LT
 REMOVE 12' EXISTING A.C.C.M.P., EXTEND BY
 INSTALL 24' x 30' HDPE CULVERT PIPE
 MATCH EXISTING CULVERT SLOPE (~3.5%) AND FLOW LINE
 RIPRAP INLET

Scale: NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



THE GOLD STAR
 MEMORIAL HIGHWAY

PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 CROSS SECTIONS
 STA.. 2740+00 TO STA.2741+00

No.	Revision	By	Date

	By	Date		By	Date
Designed	BAT	01/15	Checked	JRL	01/15
Drawn	RWH	01/15	In Charge of	SRT	01/15

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

CONTRACT: 2015.01

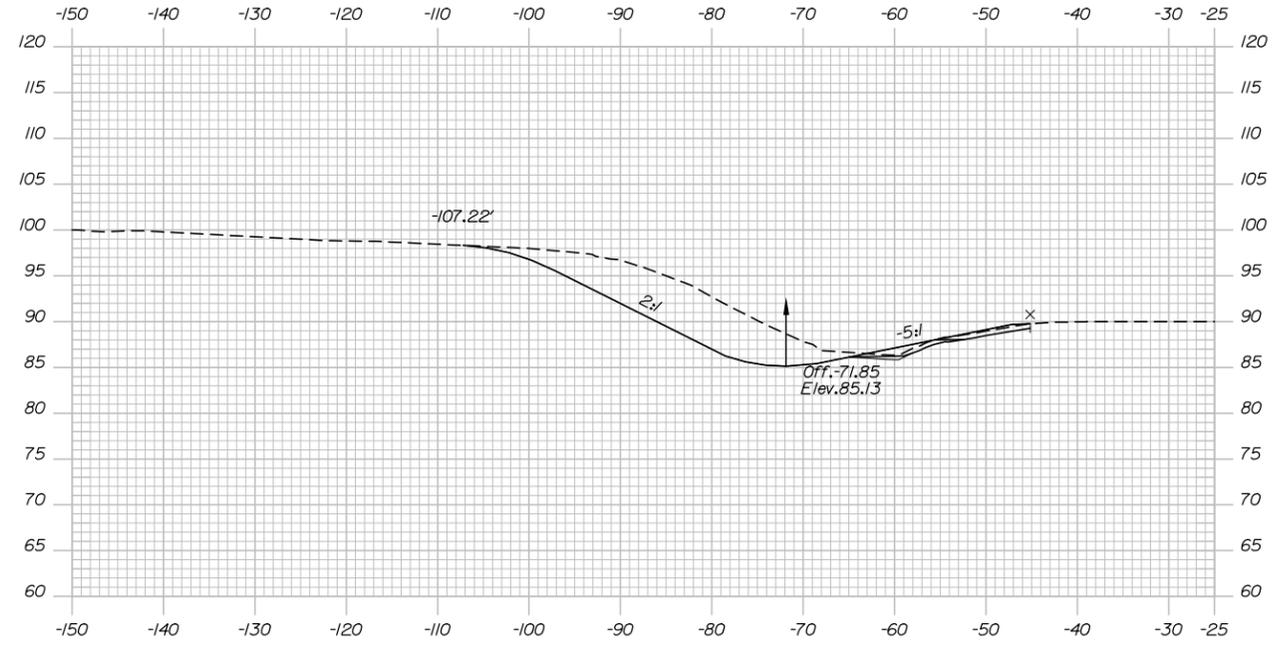
SHEET NUMBER: CZ-8

40 OF 69

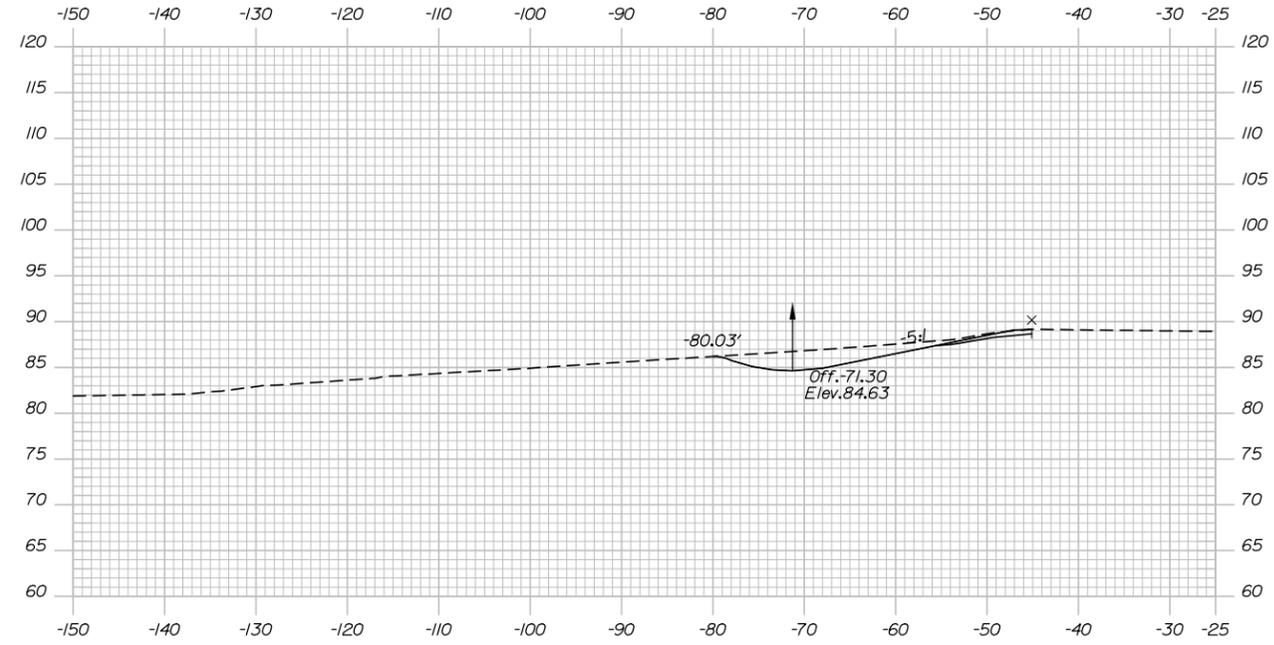
Filename: xsec.dgn

Date: 1/22/2015

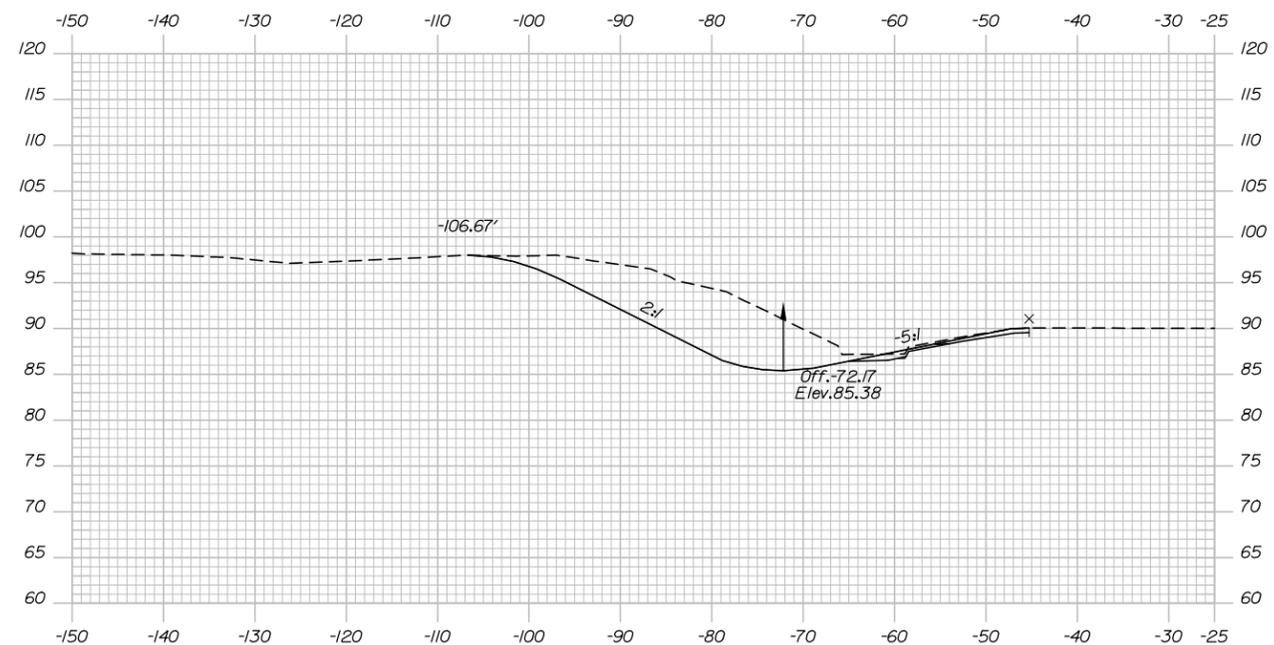
Filename: xsec.dgn



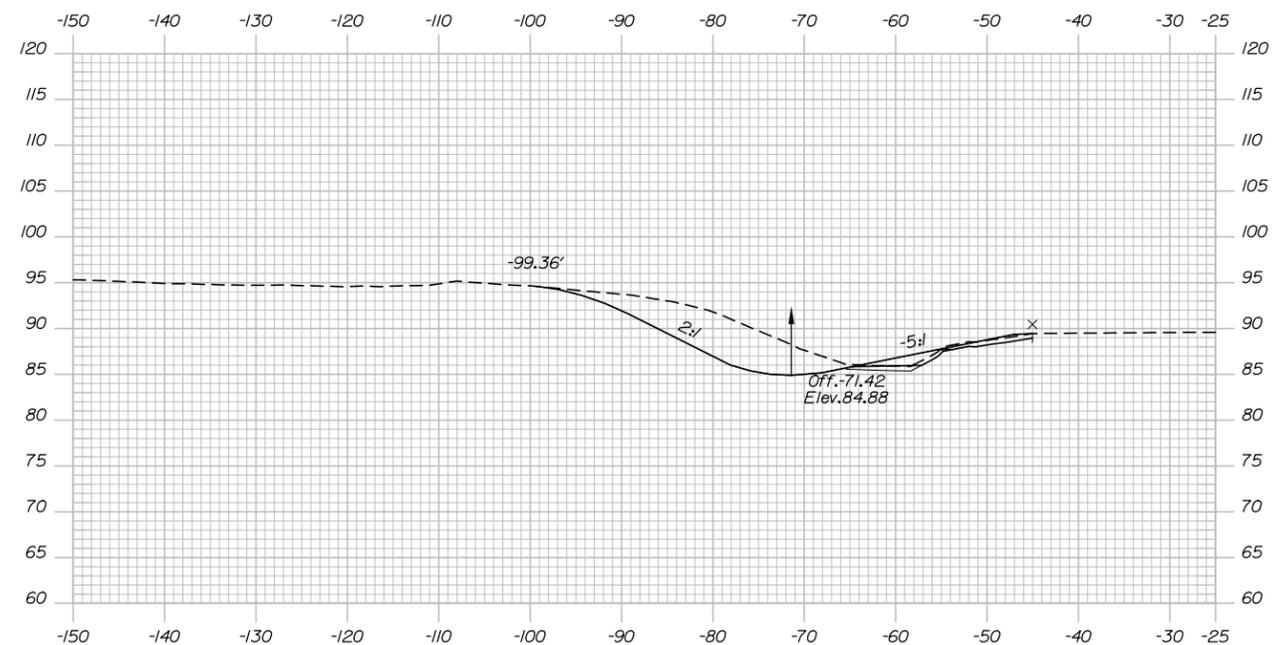
2742+00.00



2743+00.00



2741+50.00



2742+50.00

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

	By	Date		By	Date
	BAT	01/15	Checked	JRL	01/15
	RWH	01/15	In Charge of	SRT	01/15



MAINE TURNPIKE AUTHORITY
 2360 Congress Street
 Portland, ME 04102
 TEL (207) 871-7771
 FAX (207) 879-5567



**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

**PAVEMENT REHABILITATION
 CLEAR ZONE IMPROVEMENTS
 CROSS SECTIONS
 STA.. 2741+50 TO STA.2743+00**

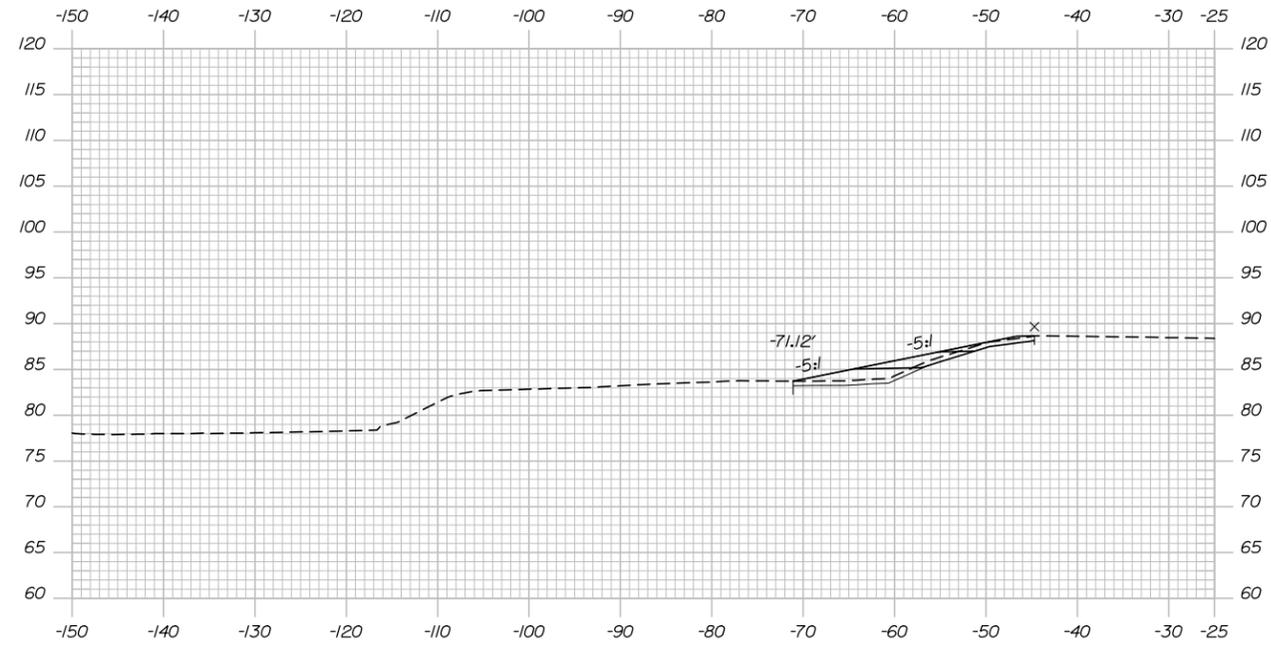
CONTRACT: 2015.01

SHEET NUMBER: CZ-9

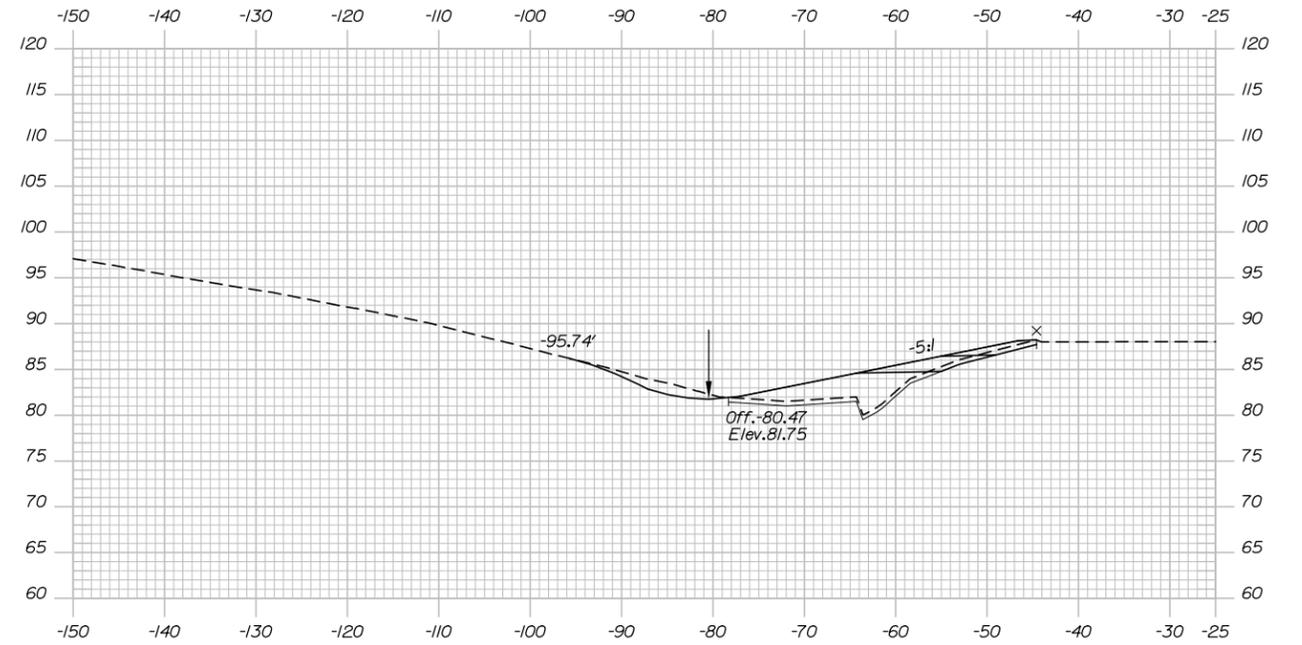
41 OF 69

Date: 1/22/2015

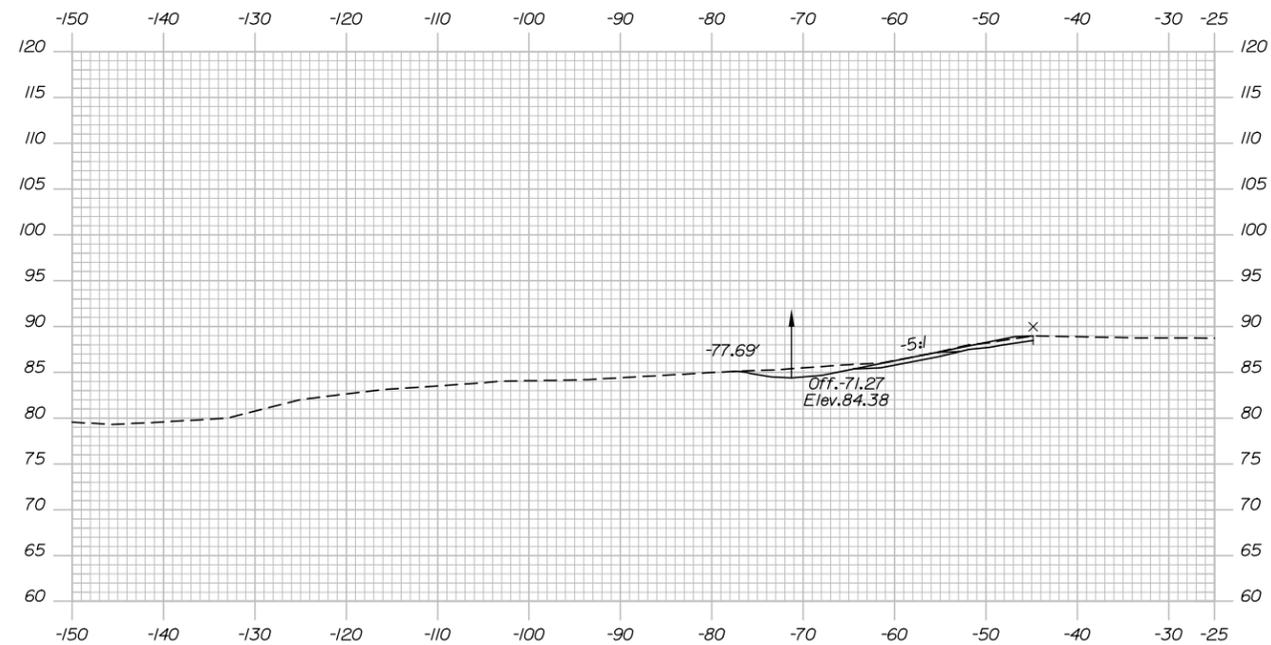
Filename: xsec.dgn



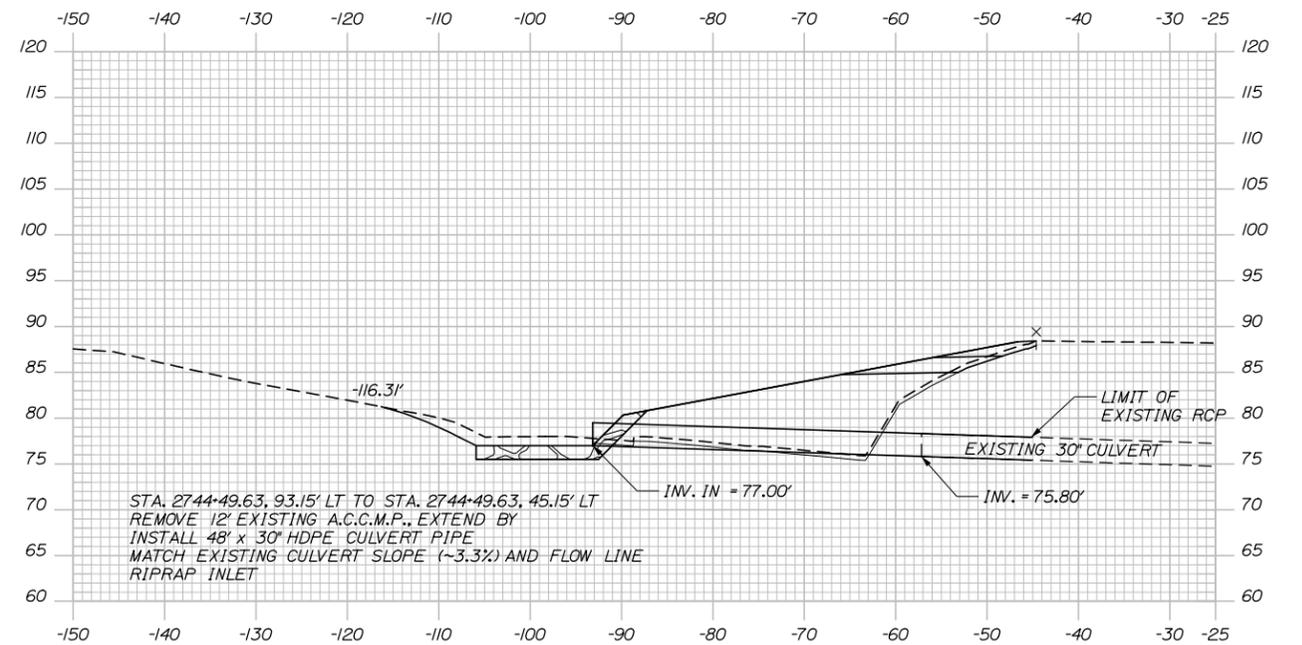
2744+00.00



2745+00.00



2743+50.00



2744+50.00

Scale: NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



**THE GOLD STAR
MEMORIAL HIGHWAY**

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
CROSS SECTIONS
STA.. 2743+50 TO STA.2745+00

No.	Revision	By	Date

	By	Date	By	Date	
Designed	BAT	01/15	Checked	JRL	01/15
Drawn	RWH	01/15	In Charge of	SRT	01/15

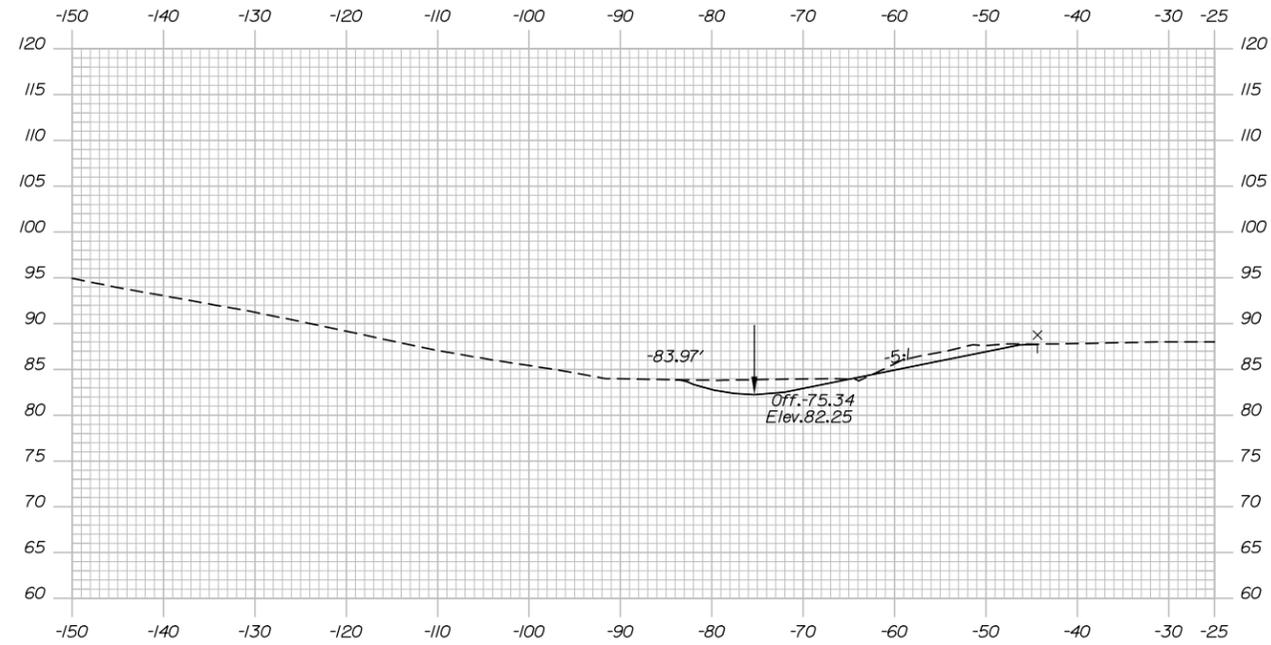
MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

CONTRACT: 2015.01

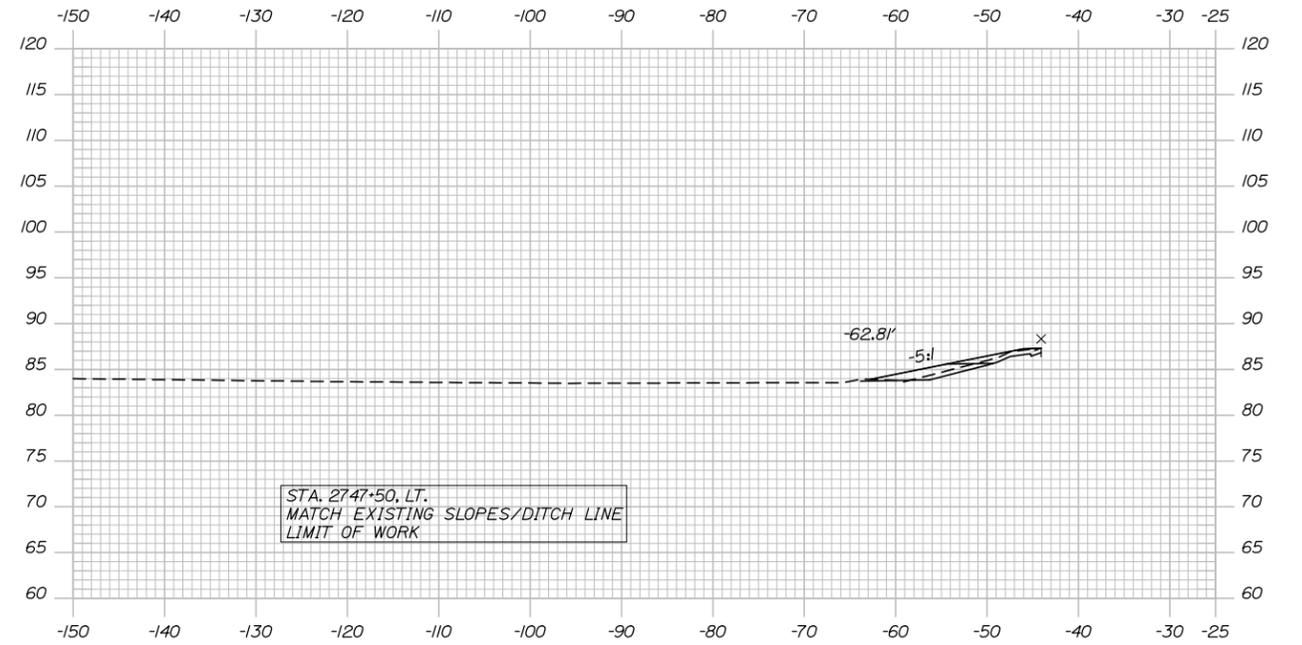
SHEET NUMBER: CZ-10

42 OF 69

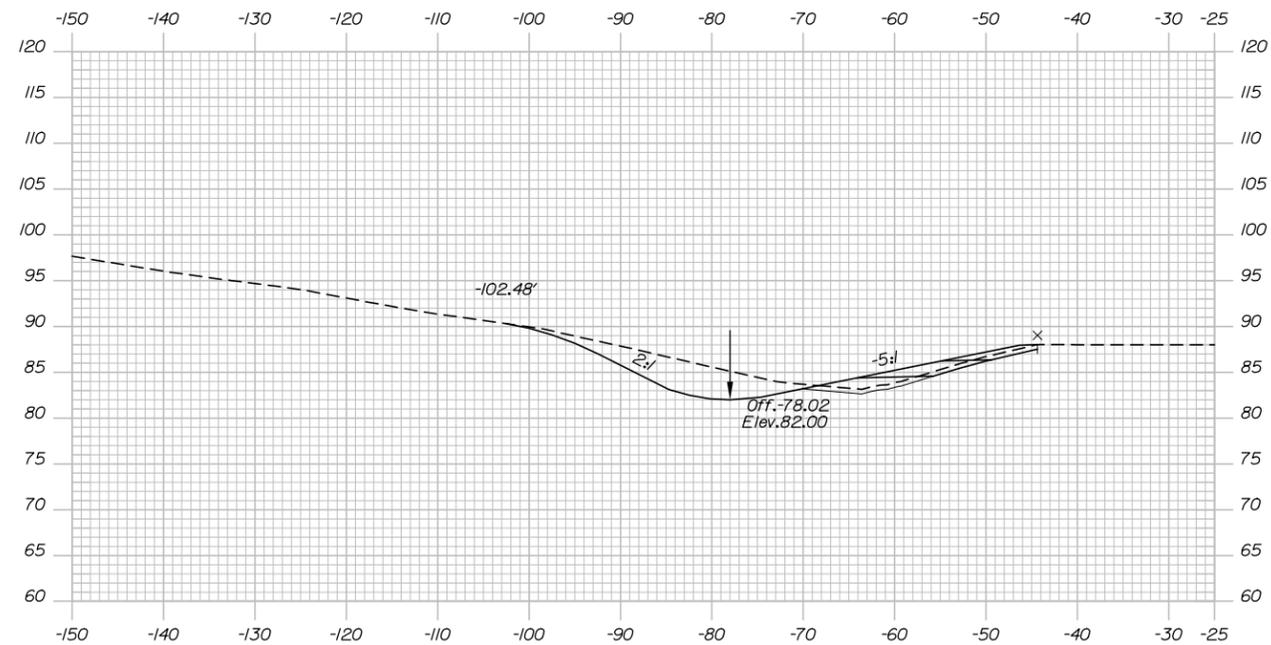
Date: 1/22/2015



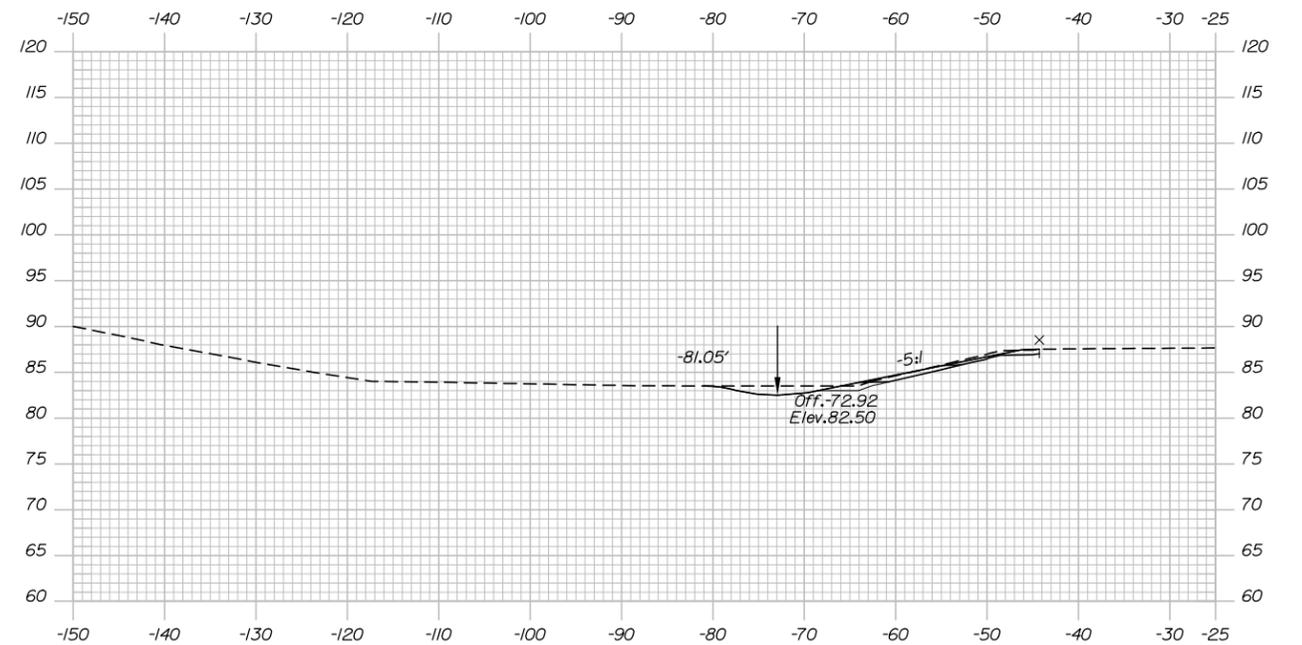
2746+00.00



2747+00.00



2745+50.00



2746+50.00

Scale: NOT TO SCALE

Designed by:



MAINE TURNPIKE AUTHORITY
2360 Congress Street
Portland, ME 04102
TEL (207) 871-7771
FAX (207) 879-5567



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Joseph R. Leavitt, P.E.

PAVEMENT REHABILITATION
CLEAR ZONE IMPROVEMENTS
CROSS SECTIONS
STA.. 2745+50 TO STA.2747+00

SHEET NUMBER: CZ-11

CONTRACT: 2015.01

43 OF 69

Filename: xsec.dgn

No.	Revision	By	Date

	By	Date		By	Date
Designed	BAT	01/15	Checked	JRL	01/15
Drawn	RWH	01/15	In Charge of	SRT	01/15

Date: 1/21/2015

Username:

Division: HIGHWAY

Filename: ... \BRIDGE\MSTA\001_Quantities.dgn

T:\Falmouth\Projects\2013\41747.00 - MTA-5 Bridge Repairs Phase I

ITEM NO.	ITEM DESCRIPTION	UNIT	ROUTE 9 UNDERPASS (MILE F3.7)
202.202	REMOVING PAVEMENT SURFACE	SY	180
202.201	REMOVING PAVEMENT SURFACE - BRIDGE DECK	SY	555
403.210	HOT MIX ASPHALT, 9.5 MM NOMINAL MAXIMUM SIZE	TON	70
409.15	BITUMINOUS TACK COAT, APPLIED	GAL	37
507.095	ALUMINUM BRIDGE RAILING - SPLICE MODIFICATION	EA	16
508.13	WATERPROOFING MEMBRANE (555 SY)	LS	1
515.201	PIGMENTED PROTECTIVE COATING FOR CONCRETE SURFACES	SY	470
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	SY	370
518.10	ABUTMENT REPAIRS	SF	880
518.20	PIER REPAIRS	SF	225
518.39	GRANITE CURB JOINT MORTAR AND BEDDING MORTAR REPAIR	LF	310
518.43	PARAPET JOINT REPAIRS	LF	170
518.6317	EPOXY INJECTED CRACK REPAIRS	LF	15
518.75	FASCIA AND OVERHANG REPAIRS	SF	45
518.80	PARTIAL DEPTH CONCRETE DECK REPAIRS	SF	355
518.81	FULL DEPTH CONCRETE DECK REPAIRS	SF	50
520.2211	EXPANSION JOINT MODIFICATIONS	EA	2
526.306	TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY AUTHORITY	LS	1
527.341	WORK ZONE CRASH CUSHION - TL-3	UN	2
527.342	WORK ZONE CRASH CUSHION - TL-2	UN	2
619.1202	TEMPORARY MULCH	UN	1
627.7122	WHITE OR YELLOW PAVEMENT MARKING LINE	LF	770
627.76121	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	LS	1
627.77	REMOVING EXISTING PAVEMENT MARKING	SF	210
629.05	HAND LABOR, STRAIGHT TIME	HR	20
643.72	TEMPORARY TRAFFIC SIGNAL	LS	1
645.135	BRIDGE OVERPASS-MOUNTED SIGN SUPPORT	EA	4
652.30	FLASHING ARROW BOARD	EA	2
652.312	TYPE III BARRICADES	EA	2
652.34	CONE	EA	20
652.35	CONSTRUCTION SIGNS	SF	625
652.38	FLAGGER	HR	90
652.3911	MAINTENANCE OF TRAFFIC CONTROL DEVICES, BRIDGE	LS	1
652.45	TRUCK MOUNTED ATTENUATOR	CD	20
656.632	30 INCH TEMPORARY SILT FENCE	LF	50

SPECIFICATIONS:

DESIGN

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION

CONSTRUCTION

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, DECEMBER 2002

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS FOR HIGHWAYS AND BRIDGES, DECEMBER 2002 WITH LATEST REVISIONS

AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, THIRD EDITION WITH 2013 INTERIMS

DESIGN LOADING:

LIVE LOAD

HL-93

MATERIALS:

CONCRETE

CONCRETE JOINT REPAIR SHALL BE CLASS AAA.

ALL OTHER PATCHING AND REPAIR AREAS SHALL BE CLASS AAA-MODIFIED.

REINFORCING STEEL

AASHTO M31, GRADE 60 EPOXY-COATED.

BASIC DESIGN STRESSES:

CONCRETE

CLASS AAA, $f'_c = 4,500$ P.S.I.

REINFORCING STEEL

$f_y = 60,000$ P.S.I.

GENERAL NOTES:

- FOR ADDITIONAL DETAILS REFERENCED OR NOT SHOWN IN THESE DRAWINGS, SEE THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, HIGHWAYS AND BRIDGES, DECEMBER 2002 WITH UPDATES.
- COPIES OF THE AS-BUILT PLANS ARE ON FILE AT THE MAINE TURNPIKE AUTHORITY. A PORTION OF THESE PLANS ARE INCLUDED IN THIS CONTRACT FOR THE CONTRACTOR'S CONVENIENCE. THE COMPLETENESS AND ACCURACY OF THESE PLANS IS NOT GUARANTEED.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDE ROADS DURING CONSTRUCTION UNLESS NOTED OTHERWISE ON THE PLANS.
- REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" MIN., UNLESS OTHERWISE NOTED.
- CHAMFER ALL EXPOSED CONCRETE EDGES $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.
- ALL CONCRETE BRIDGE PARAPET FACES AND WINGWALL CONCRETE INSIDE FACE AND TOP FACE SHALL HAVE A RUBBED FINISH PRIOR TO THE APPLICATION OF THE CLEAR PROTECTIVE COATING FOR CONCRETE SURFACE.
- SHIELDING REQUIRED DURING CONSTRUCTION SHALL NOT PROJECT BELOW THE BOTTOM FLANGES OF GIRDERS.
- ALL PAINT ON EXISTING STEEL, DAMAGED BY CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTE THAT THE EXISTING BRIDGE STRUCTURE CONTAINS LEAD BASED PAINT. THE CONTRACTOR SHALL INSTITUTE EVERY PRECAUTION WHEN WORKING WITH MATERIALS COATED WITH LEAD BASED PAINTS.
- REMOVE OBJECT MARKERS (OM3) FROM PIERS AS DIRECTED BY THE RESIDENT. PAYMENT CONSIDERED INCIDENTAL TO CONTRACT.

PAVING NOTES:

- ANY NECESSARY CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCIDENTAL TO THE RELATED PAVING ITEMS.
- RECYCLED BITUMINOUS PAVEMENT (RAP) SHALL NOT BE PLACED ON ANY PORTION OF THE EXISTING BRIDGE DECK.
- ALL COLD JOINTS WITH TEMPERATURES LESS THAN 120°F SHALL BE SEALED WITH JOINT SEALANT CONFORMING TO FEDERAL SPECIFICATION SS-S-1401C.

LIST OF ABBREVIATIONS

ABUT.	ABUTMENT
ADDL.	ADDITIONAL
ASCG.	AGGREGATE SUBBASE COURSE GRAVEL
ALT.	ALTERNATE
APPROX.	APPROXIMATE
BOT.	BOTTOM
BRG.	BEARING
CL.	CLEAR
☉	CENTERLINE
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
DEMO.	DEMOLITION
DIA.	DIAMETER
DIAPH.	DIAPHRAGM
EA.	EACH
EB	EASTBOUND
E.F.	EACH FACE
EL.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
F.F.	FAR FACE
JT.	JOINT
MAX.	MAXIMUM
MIN.	MINIMUM
MTA	MAINE TURNPIKE AUTHORITY
NB	NORTHBOUND
N.F.	NEAR FACE
N.T.S.	NOT TO SCALE
O.H.W.	ORDINARY HIGH WATER
PED.	PEDESTAL
PGL	PROFILE GRADE LINE
☒	PLATE
PROP.	PROPOSED
RDWY.	ROADWAY
SHLD.	SHOULDER
SB	SOUTHBOUND
SP.	SPACES
STA.	STATION
T.&B.	TOP & BOTTOM
TPKE.	TURNPIKE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VERT.	VERTICAL
WB	WESTBOUND
W.P.	WORKING POINT

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
44	QUANTITIES & GENERAL NOTES
45	LIMIT OF DISTURBANCE
46	DECK PLAN & TYPICAL SECTION
47	BRIDGE PHASING
48	JOINT REPAIR DETAILS
49-50	ABUTMENT REPAIRS
51-53	PIER REPAIRS
54	MISCELLANEOUS DETAILS
55-56	TRAFFIC CONTROL LANE CLOSURE DETAILS PHASE 1 & 2
57	TRAFFIC CONTROL DETAILS WESTBOUND FALMOUTH SPUR
58	TRAFFIC CONTROL LANE CLOSURE DETAILS
59	TRAFFIC CONTROL NOTES
60-61	MAINTENANCE OF TRAFFIC SIGN SUMMARY 1 & 2
62 - 69	EXISTING AS-BUILTS

SUBSTRUCTURE REPAIR PROCEDURAL NOTES:

- CONCRETE REPAIRS, INCLUDING THE ASSOCIATED REMOVALS, WILL BE PAID UNDER 518 ITEMS.

REMOVAL PROCEDURE:

- PRIOR TO THE START OF THE CONCRETE REMOVAL, THE RESIDENT AND THE CONTRACTOR SHALL SOUND ALL EXPOSED SURFACES OF CONCRETE AND AGREE ON THE REMOVAL LIMITS. SHOULD THE REMOVAL AREA LIMITS APPEAR TO CHANGE DURING THE DEMOLITION PROCESS, THE CONTRACTOR SHALL NOTIFY THE RESIDENT. THE RESIDENT AND CONTRACTOR SHALL AGREE ON THE REVISED PAY LIMITS PRIOR TO THE CONTRACTOR CONTINUING THE REMOVAL.
- PERFORM 1 INCH DEEP SAWCUTS ALONG LIMITS OF REMOVAL.
- CHIP CONCRETE TO DEPTH REQUIRED PER MAINE DOT STANDARD SPECIFICATION 518.

CONCRETE SURFACE PATCH/REPAIR PROCEDURE:

- PREPARE AND PATCH REPAIR AREAS WITH CLASS AAA MODIFIED CONCRETE. SEE SPECIFICATIONS FOR MATERIAL PREPARATION, PLACEMENT, AND CURING REQUIREMENTS.
- PERFORM GENERAL FINISHING (SEE BELOW).

EPOXY INJECTION CRACK REPAIR:

- PREPARE CONCRETE SURFACE AND CRACK AREA BY CLEANING SUBSTRATE WITH WIRE BRUSH TO REMOVE LAITANCE AND CONTAMINANTS. BLAST CLEAN THE CRACK AND CONCRETE SURFACE; DO NOT USE WATER.
- SET INJECTION PORTS ALONG THE LENGTH OF THE CRACK USING A HIGH-MODULUS EPOXY ADHESIVE. ONCE SET, SEAL PORTS AND CRACK WITH SAME EPOXY ADHESIVE.
- WHEN THE EPOXY ADHESIVE SEAL HAS CURED, INJECT A HIGH-MODULUS, LOW-VISCOSITY EPOXY SUCH AS SIKADUR 35, SIKADUR 55, OR APPROVED EQUAL.

GENERAL FINISHING:

- CONTRACTOR SHALL REMOVE TECTYL COATING WHERE PRESENT PRIOR TO APPLYING PROTECTIVE CONCRETE COATING. WORK SHALL BE INCIDENTAL TO THE SPECIFIED ITEM IN S.P. 518.
- ALL EXPOSED SURFACES SHALL BE COATED WITH A PROTECTIVE COATING SUITABLE FOR CONCRETE SURFACES AFTER PATCHING IS COMPLETE AND PATCH MATERIALS HAVE CURED. SEE S.P. 515 FOR LIMITS OF CLEAR AND PIGMENTED COATING.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



**THE GOLD STAR
MEMORIAL HIGHWAY**

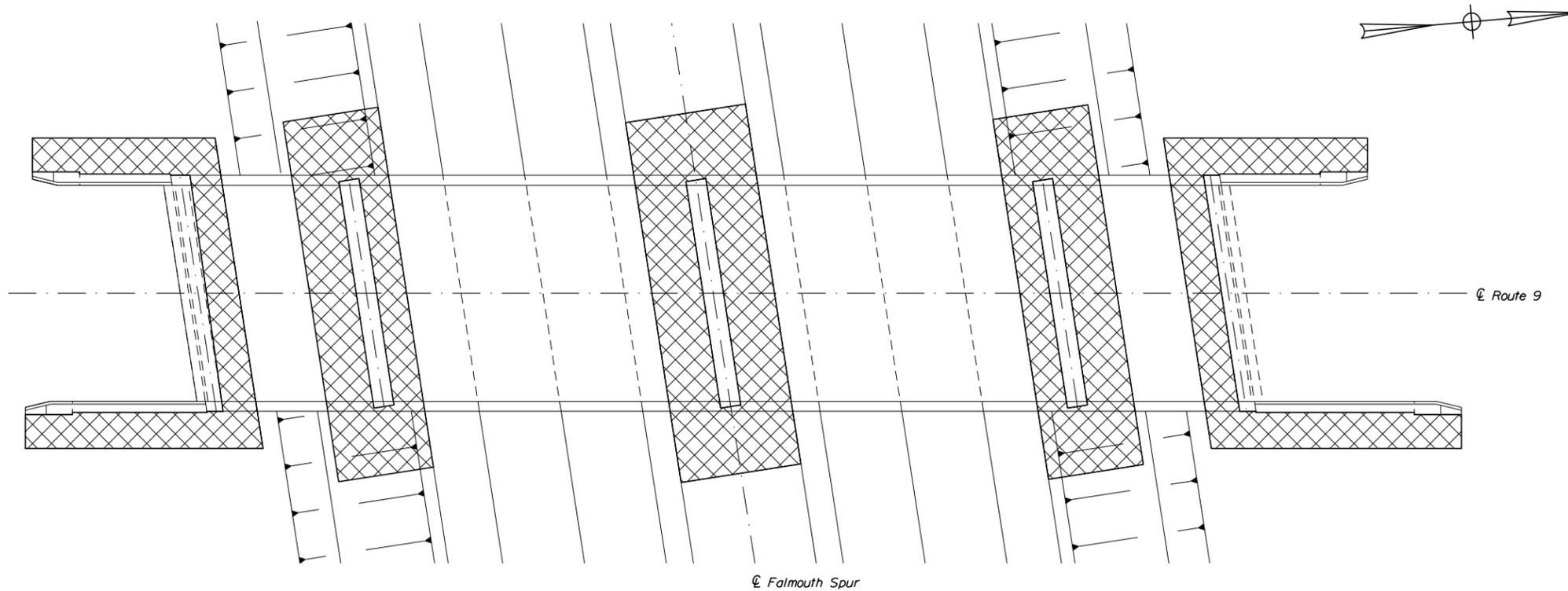
MTA PROJECT MANAGER: Ralph Norwood

**ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)**

QUANTITIES & GENERAL NOTES

SHEET NUMBER: QT-01
44 OF 69

CONTRACT: 2015.01



LIMIT OF DISTURBANCE PLAN

LEGEND:

 CONTRACT LIMIT OF DISTURBANCE

 CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE

AREAS:

CONTRACT LIMIT OF DISTURBANCE = 0.00 ACRES

CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE = 0.25 ACRES

NOTES:

1. EROSION AND SEDIMENT CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
2. THE CONTRACTOR WILL BE ALLOWED TO STORE MATERIAL AND EQUIPMENT ON GRAVEL AND PAVEMENT WITHIN THE CLOSED PORTIONS OF ROUTE 9. THESE AREAS ARE EITHER INCLUDED IN THE LIMITS OF DISTURBANCE OR HAVE BEEN PREVIOUSLY SURFACED AND DO NOT ADD TO THE LIMITS OF DISTURBANCE. A TOTAL OF 0.25 ACRES HAS BEEN ESTIMATED FOR CONTRACTOR ACCESS AND STORAGE AREA.
3. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID IMPACTING OR DISTURBING ROADWAY DITCHES.

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



THE GOLD STAR
 MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS
 (MILE F3.7)

LIMIT OF DISTURBANCE

CONTRACT: 2015.01

SHEET NUMBER: LD-01

45 OF 69

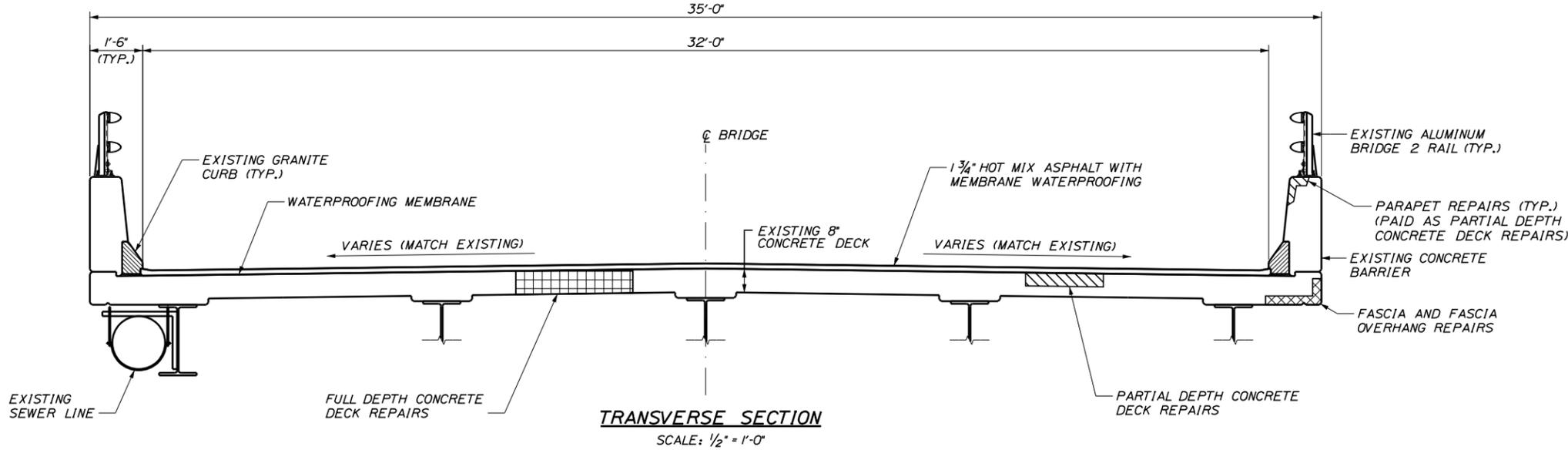
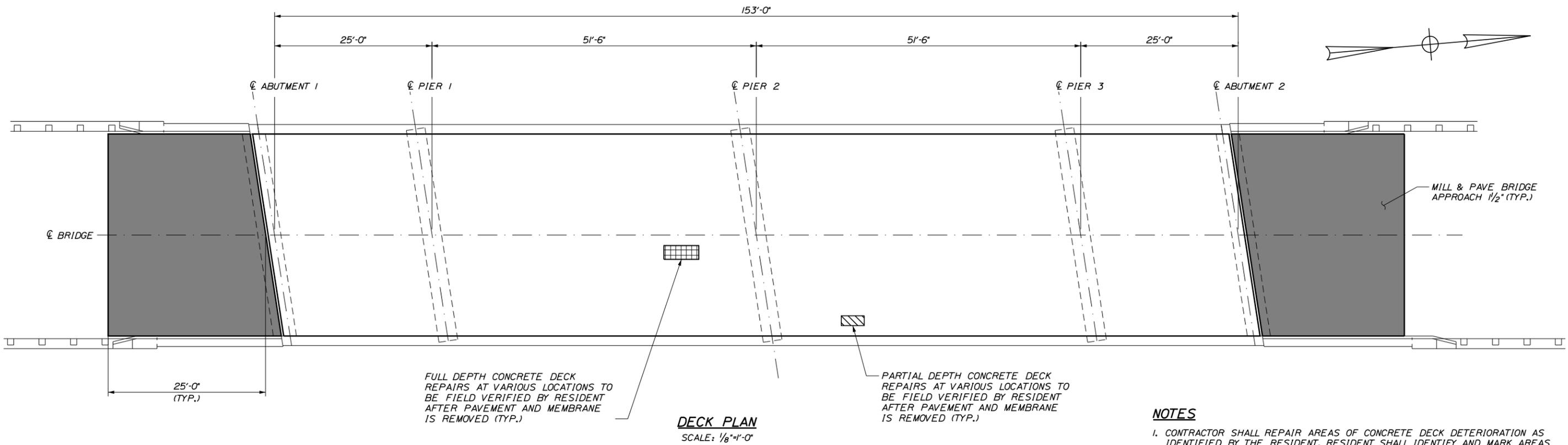
Date: 1/16/2015

Username:

Division: HIGHWAY

Filename: ... \MSTA\003_Deck_Plan_Details.dgn

T:\Falmouth\Projects\2013\41747.00 - MTA-5 Bridge Repairs Phase I



NOTES

1. CONTRACTOR SHALL REPAIR AREAS OF CONCRETE DECK DETERIORATION AS IDENTIFIED BY THE RESIDENT. RESIDENT SHALL IDENTIFY AND MARK AREAS FOR DECK REPAIR AFTER THE WEARING SURFACE AND MEMBRANE ARE REMOVED. CONTRACTOR SHALL ALSO REPAIR DETERIORATED AREAS OF FASCIA AND FASCIA OVERHANGS. COORDINATE WORK WITH THE RESIDENT. PAYMENT FOR WORK WILL BE MADE UNDER THE RESPECTIVE 518 ITEMS.
2. CONTRACTOR SHALL REPAIR AREAS OF DETERIORATED GRANITE CURB BEDDING MORTAR ON THE DECK AS REQUIRED. LOCATIONS OF GRANITE CURB BEDDING MORTAR SHALL BE FIELD DETERMINED BY THE RESIDENT. PAYMENT FOR WORK WILL BE MADE UNDER THE RESPECTIVE 518 ITEMS.
3. SEAL SHOULDER AREAS WITH TWO APPLICATIONS OF EMULSIFIED BITUMINOUS SEALER PER MAINEDOT STANDARD SPECIFICATION 403.03 AFTER COMPLETING ALL DECK PAVING WORK.
4. RETROFIT ALL EXISTING ALUMINUM BRIDGE RAIL SPLICES NOT IN CONFORMANCE WITH THE ALUMINUM BRIDGE RAILING - SPLICE MODIFICATION DETAIL. PAYMENT FOR WORK WILL BE MADE UNDER 507.095.
5. ALL PVC DECK WEEPS WHICH DRAIN ONTO PIERS, ABUTMENTS OR STRUCTURAL STEEL SHALL BE EXTENDED AND DIVERTED AWAY FROM BRIDGE COMPONENTS BELOW DECK, AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE BY THE VARIOUS LABOR AND EQUIPMENT ITEMS.
6. ALL EXISTING PARAPET JOINTS SHALL BE CLEANED AND RECAULKED AS DIRECTED BY THE RESIDENT WITH AN APPROVED JOINT SEALER. PAYMENT FOR WORK WILL BE MADE UNDER THE RESPECTIVE 518 ITEMS.

LEGEND

- LIMITS OF FULL DEPTH CONCRETE DECK REPAIR (REPAIR AREAS TO BE FIELD VERIFIED)
- LIMITS OF PARTIAL DEPTH CONCRETE DECK REPAIR (REPAIR AREAS TO BE FIELD VERIFIED)
- LIMITS OF FASCIA AND FASCIA OVERHANG REPAIR (REPAIR AREAS TO BE FIELD VERIFIED)

ESTIMATED REPAIR QUANTITIES			
	PARTIAL DEPTH CONCRETE DECK REPAIRS (S.F.)	FULL DEPTH CONCRETE DECK REPAIRS (S.F.)	FASCIA AND FASCIA OVERHANG REPAIRS (S.F.)
FALMOUTH ROAD MM F3.7	355	50	45

Scale: AS NOTED

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)

DECK PLAN & TYPICAL SECTION

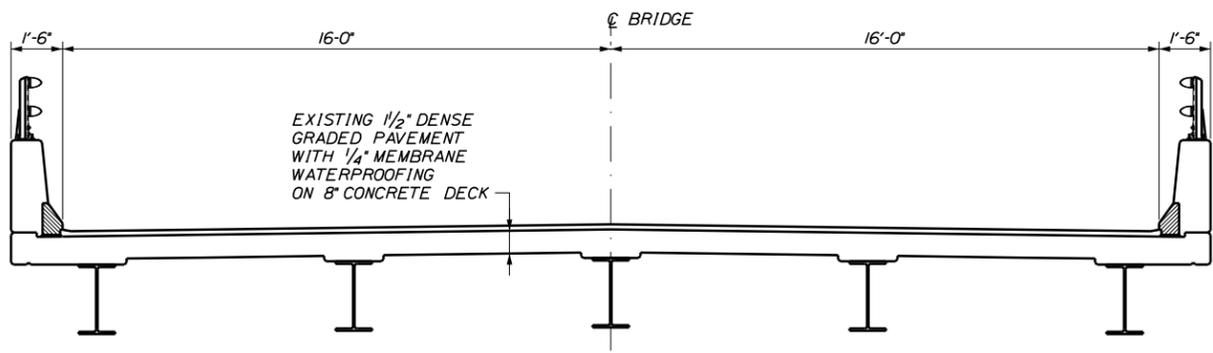
SHEET NUMBER: S-01
CONTRACT: 2015.01
46 OF 69

Date: 1/16/2015

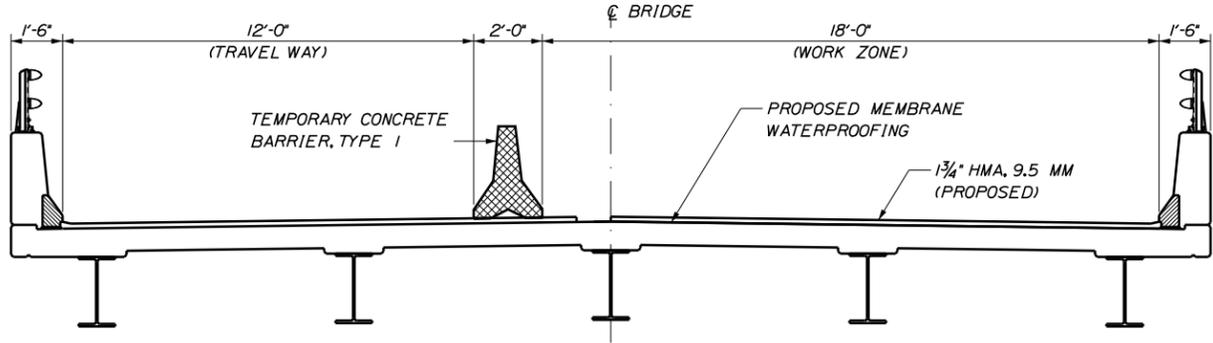
Username:

Division: HIGHWAY

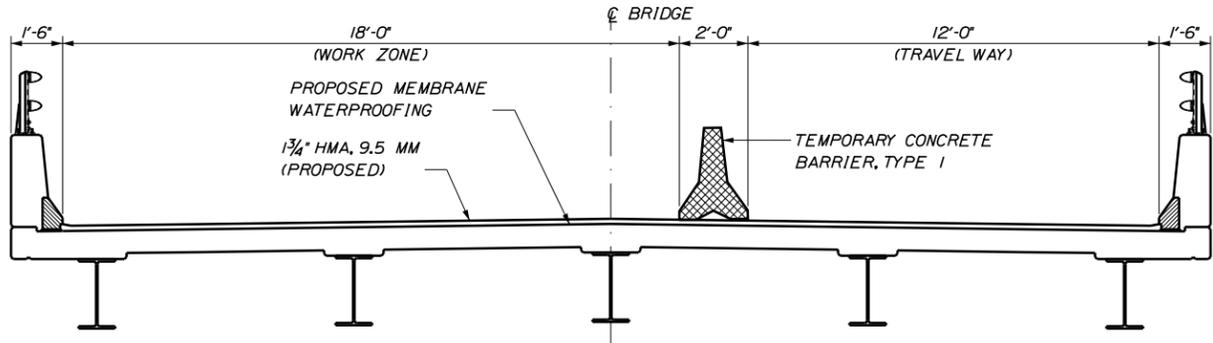
Filename: ... \MSTA\004_Bridge_Phase.dgn



EXISTING BRIDGE



PHASE 1



PHASE 2

Scale: 3/8" = 1'-0"

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

**ROUTE 9 BRIDGE REPAIRS
 (MILE F3.7)**

BRIDGE PHASING

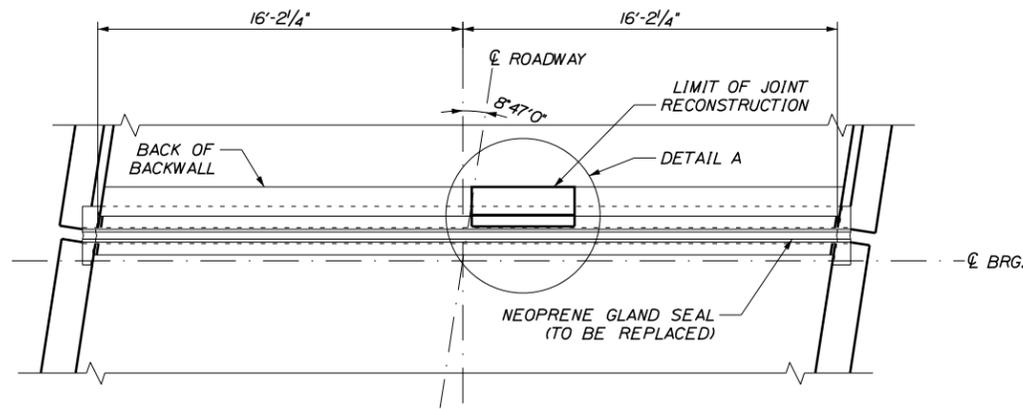
SHEET NUMBER: S-02
 CONTRACT: 2015.01
 47 OF 69

Date: 1/16/2015

Username:

Division: HIGHWAY

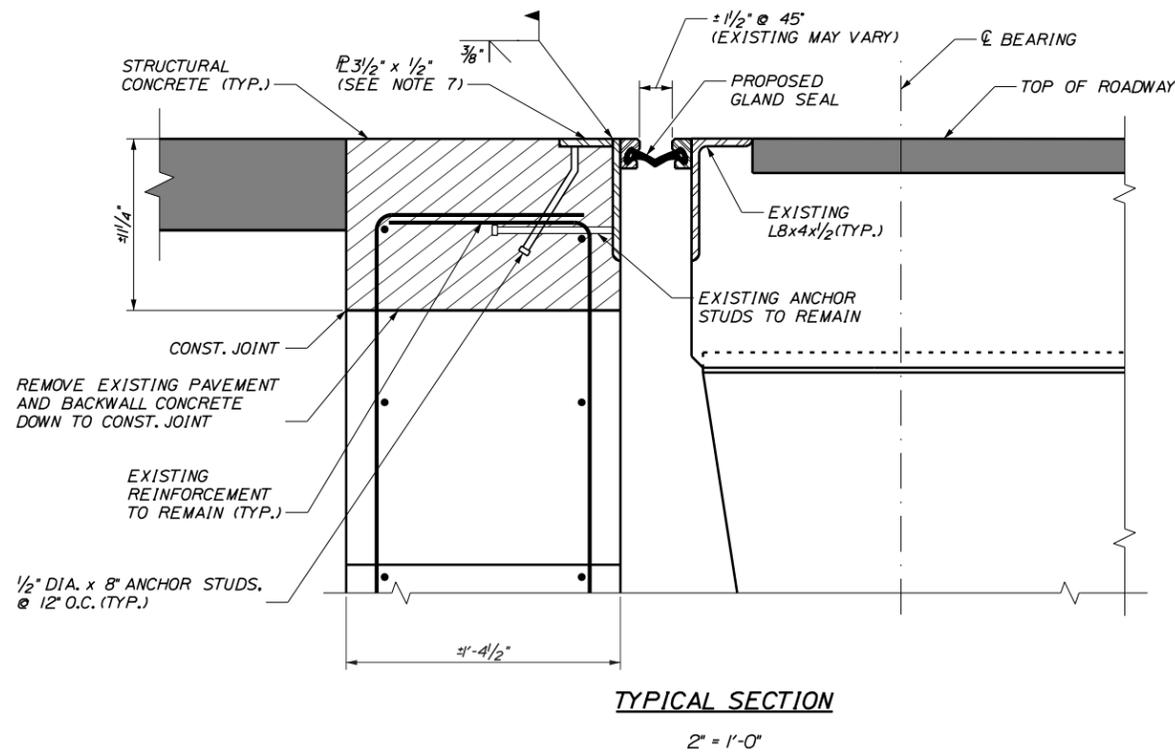
Filename: ... \MSTA\005_Joint_Repairs.dgn



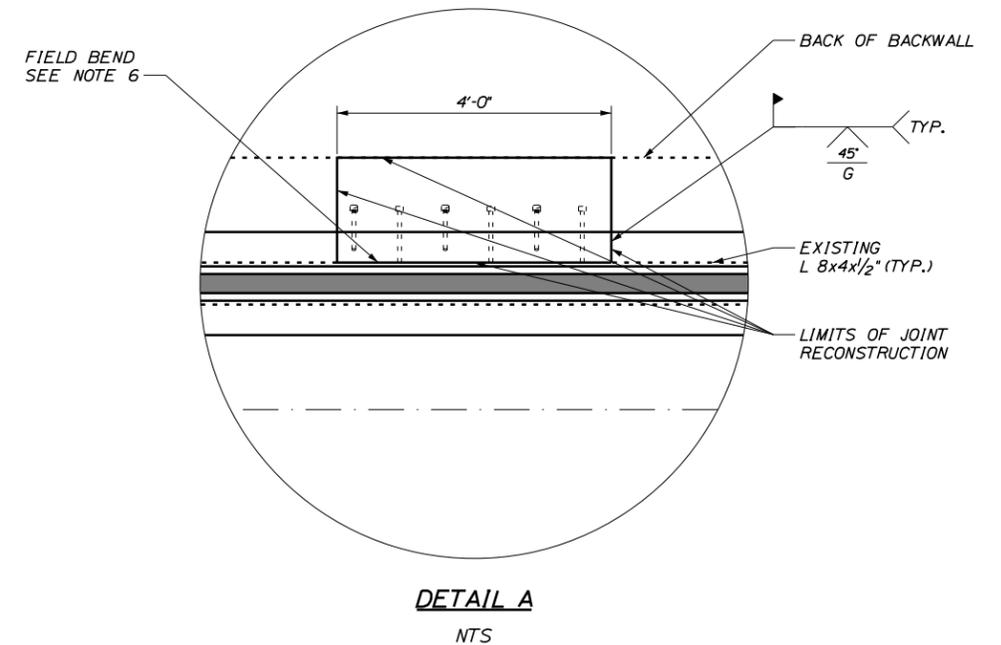
PLAN - ABUTMENT 1 (SOUTH ABUTMENT)
NTS

EXPANSION JOINT NOTES:

1. THE CONTRACTOR SHALL APPLY AN EPOXY BONDING AGENT SELECTED FROM MAINE DOT'S QUALIFIED PRODUCTS LIST TO ALL STEEL SURFACES OF THE EXPANSION JOINT THAT WILL BE EMBEDDED IN CONCRETE BEFORE PLACING THE BACKWALL CONCRETE.
2. ALL STEEL COMPONENTS SHALL BE AASHTO M270 GRADE 36, UNLESS OTHERWISE NOTED.
3. FOR CLARITY, NOT ALL REINFORCING STEEL HAS BEEN SHOWN IN ALL DETAILS.
4. THE GLAND SEALS TO BE FURNISHED SHALL HAVE A MINIMUM MOVEMENT RANGE OF 2 INCHES.
5. CONTRACTOR SHALL FIELD VERIFY EXISTING GLAND SEAL TYPE AND GEOMETRY AND PROVIDE A REPLACEMENT SEAL THAT WILL FIT EXISTING STEEL EXTRUSIONS.
6. CONTRACTOR SHALL FIELD BEND VERTICAL LEG OF EXISTING ANGLE THAT WILL REMAIN TO BE PLUMB AND IN LINE WITH UNDAMAGED JOINT.
7. CONTRACTOR SHALL REMOVE HORIZONTAL LEG OF ANGLE IN DAMAGED REGION UP TO THE FACE OF THE VERTICAL LEG OF THE ANGLE, AND SHALL REPLACE IT WITH A NEW STEEL PLATE AS SHOWN, AFTER REPAIRING VERTICAL LEG PER NOTE 6.
8. EXACT LOCATION OF REPAIRS ON THE DAMAGED JOINT ANGLE TO BE ESTABLISHED BY THE RESIDENT.



TYPICAL SECTION
2" = 1'-0"



DETAIL A
NTS

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Norman L. Baker					
	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
12 Northbrook Drive
Building A, Suite One
Falmouth, Maine 04105
TEL: (207) 781-4721
FAX: (207) 781-4753

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)

JOINT REPAIR DETAILS

SHEET NUMBER: S-03
CONTRACT: 2015.01
48 OF 69

Date: 1/16/2015

Username:

Division: HIGHWAY

Filename: ... \MSTA\006_Abut_1_Repairs.dgn

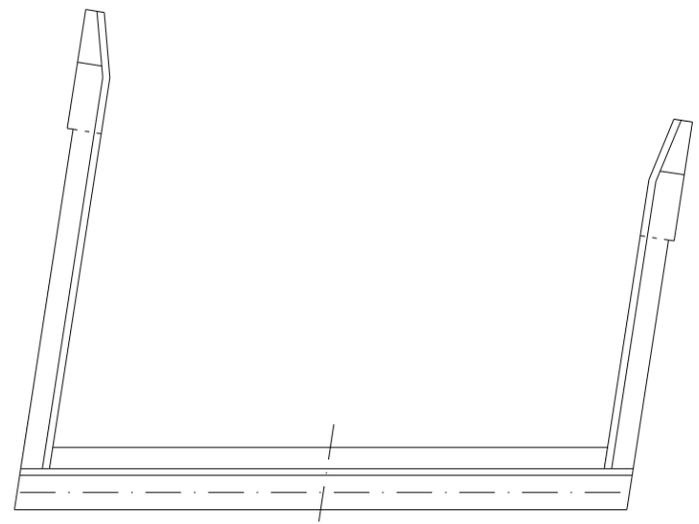
ROUTE 9 UNDERPASS - MM F3.7 ABUTMENTS ESTIMATED QUANTITY OF REPAIRS			
	ABUTMENT 1	ABUTMENT 2	TOTAL
ABUTMENT REPAIRS	90 S.F.	790 S.F.	880 S.F.
EPOXY INJECTED CRACK REPAIRS	15 L.F.	0 L.F.	15 L.F.

NOTES:

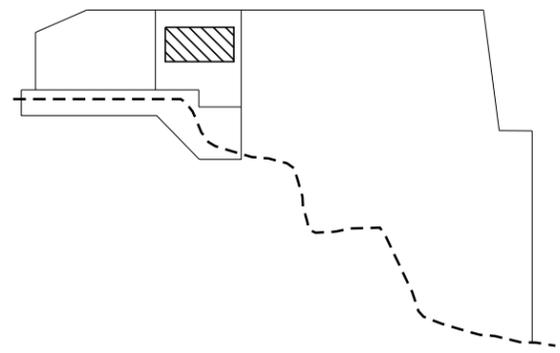
1. FOR PROCEDURAL NOTES SEE SHEET "QUANTITIES & GENERAL NOTES"

LEGEND:

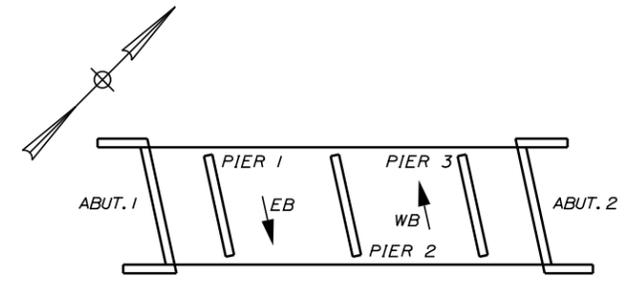
-  LIMIT OF CONCRETE SURFACE REPAIRS
-  LIMIT OF EPOXY INJECTED CRACK REPAIR
-  EXISTING CONCRETE
-  EXISTING AND PROPOSED GROUND



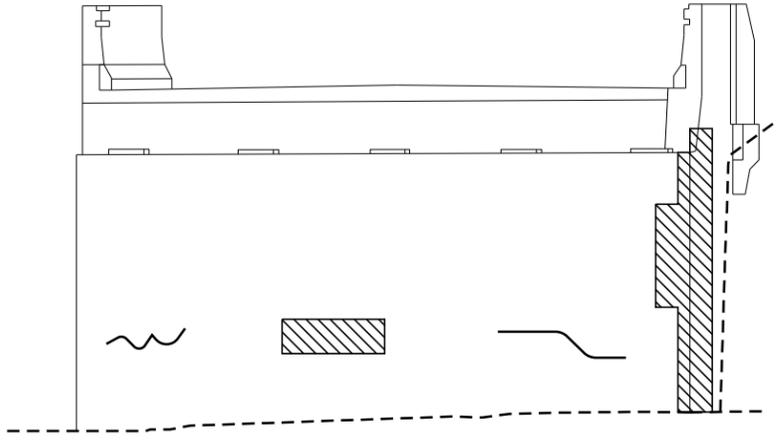
ABUTMENT 1 PLAN (SOUTH)



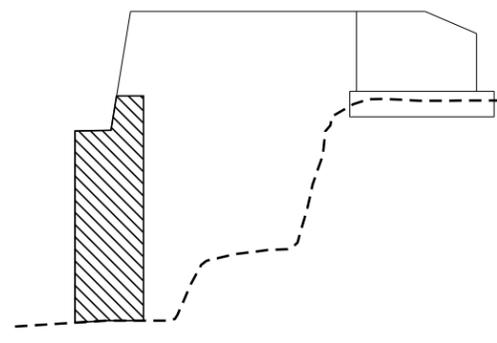
EAST WINGWALL



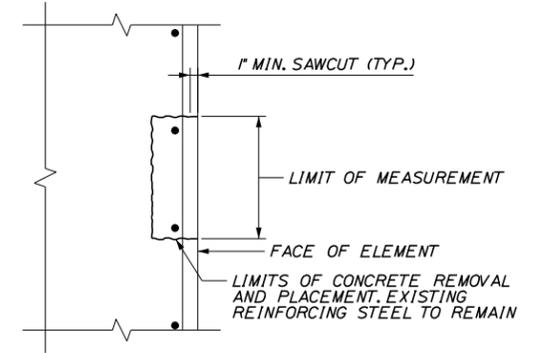
LOCATION PLAN



ABUTMENT 1 ELEVATION (SOUTH)



WEST WINGWALL



CONCRETE REPAIR DETAIL
1" = 1'-0"

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



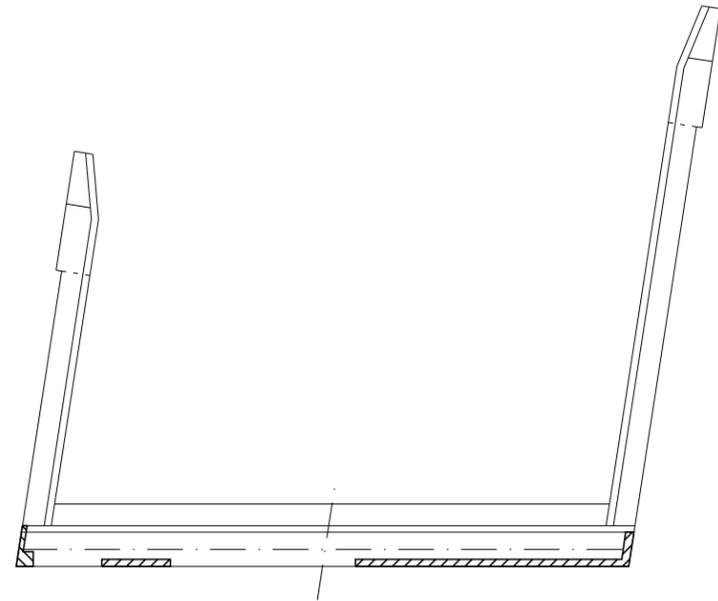
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

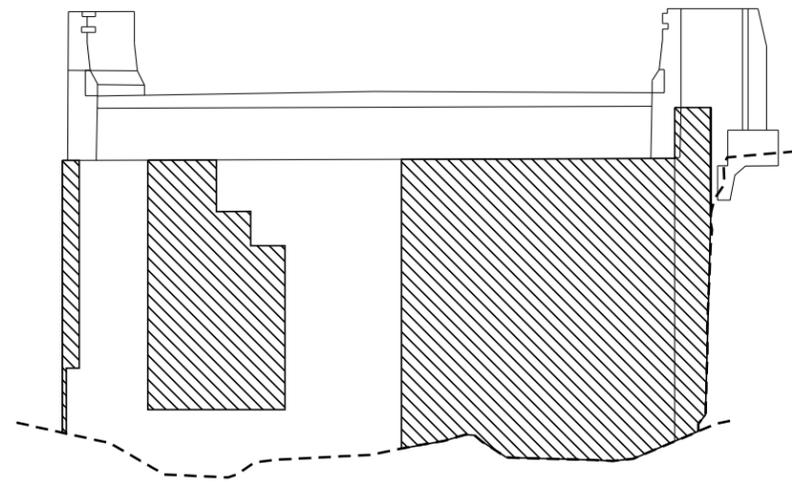
**ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)**

ABUTMENT 1 REPAIRS

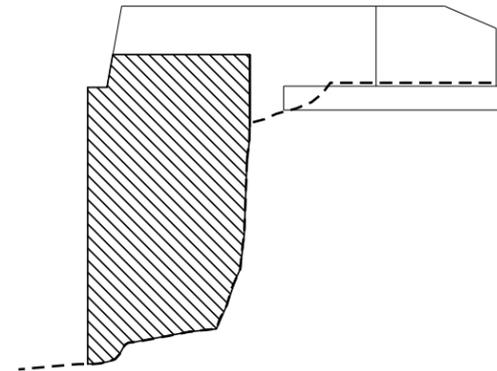
SHEET NUMBER: S-04
 CONTRACT: 2015.01
 49 OF 69



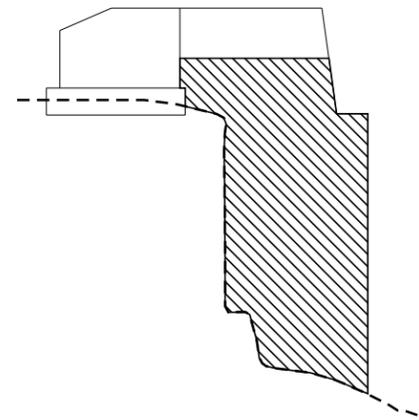
ABUTMENT 2 PLAN (NORTH)



ABUTMENT 2 ELEVATION (NORTH)



EAST WINGWALL



WEST WINGWALL

NOTES:

1. FOR CONCRETE REPAIR DETAIL SEE SHEET "ABUTMENT 1 REPAIRS"
2. FOR PROCEDURAL NOTES SEE SHEET "QUANTITIES & GENERAL NOTES"

LEGEND:

- LIMIT OF CONCRETE SURFACE REPAIRS
- LIMIT OF EPOXY INJECTED CRACK REPAIR
- EXISTING CONCRETE
- EXISTING AND PROPOSED GROUND

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

**ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)**

ABUTMENT 2 REPAIRS

SHEET NUMBER: S-05
CONTRACT: 2015.01
50 OF 69

Date: 1/16/2015

Username:

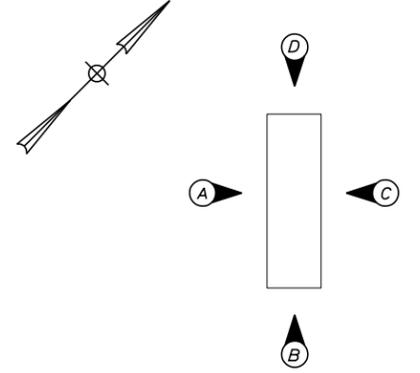
Division: HIGHWAY

Filename: ... \MSTA\008_Pier_1_Repair.dgn

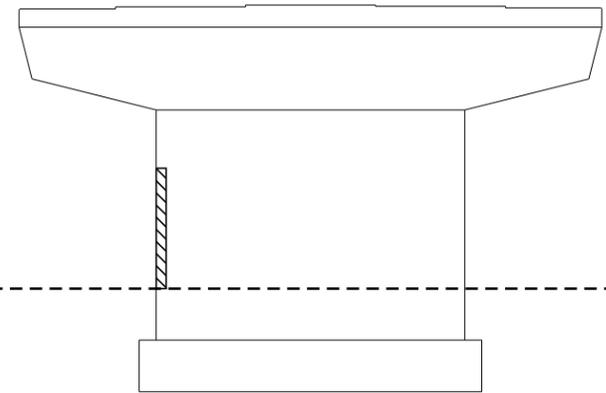
T:\Falmouth\Projects\2013\41747.00 - MTA-5 Bridge Repairs Phase I



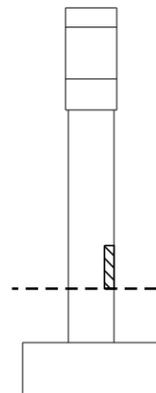
PLAN



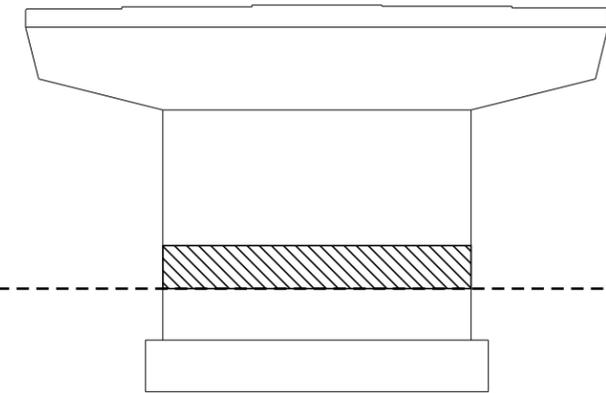
PIER ELEVATIONS



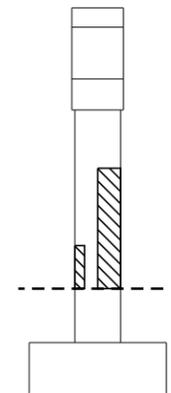
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

PIER 1 (SOUTH PIER)

ROUTE 9 UNDERPASS - MM F3.7 PIERS ESTIMATED QUANTITY OF REPAIRS				
	PIER 1	PIER 2	PIER 3	TOTAL
PIER REPAIRS	60 S.F.	130 S.F.	35 S.F.	225 S.F.
EPOXY INJECTED CRACK REPAIRS	0 L.F.	0 L.F.	0 L.F.	0 L.F.

NOTES:

- FOR CONCRETE REPAIR DETAIL SEE SHEET "ABUTMENT 1 REPAIRS".
- FOR PROCEDURAL NOTES SEE SHEET "QUANTITIES & GENERAL NOTES".

LEGEND:

- LIMIT OF CONCRETE SURFACE REPAIRS
- LIMIT OF EPOXY INJECTED CRACK REPAIR
- EXISTING CONCRETE
- EXISTING AND PROPOSED GROUND

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date	Checked	By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)

PIER 1 REPAIRS

CONTRACT: 2015.01

SHEET NUMBER: S-06
51 OF 69

Date: 1/16/2015

Username:

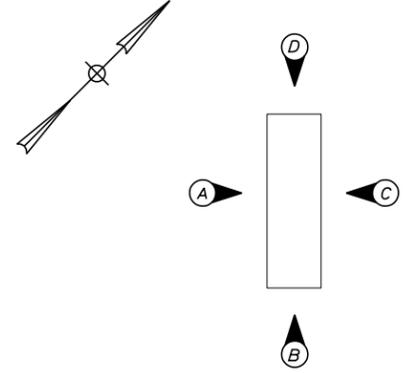
Division: HIGHWAY

Filename: ... \MSTA\009_Pier_2_Repairs.dgn

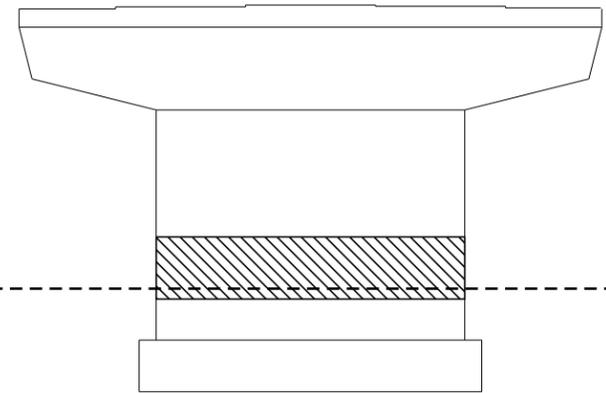
T:\Falmouth\Projects\2013\41747.00 - MTA-5 Bridge Repairs Phase I



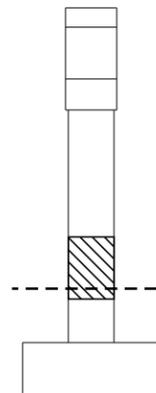
PLAN



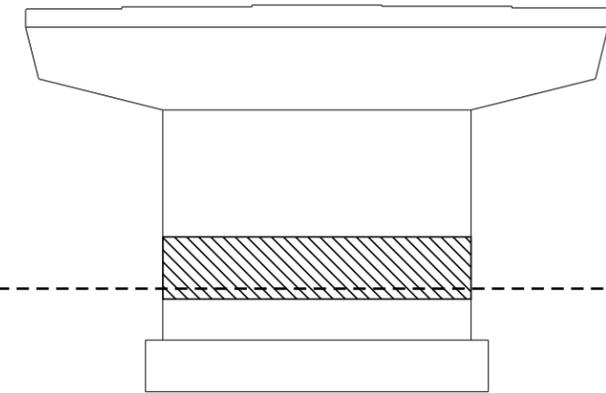
PIER ELEVATIONS



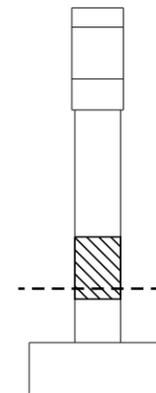
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

PIER 2 (CENTER PIER)

NOTES:

- 1. FOR CONCRETE REPAIR DETAIL SEE SHEET "ABUTMENT 1 REPAIRS".
- 2. FOR PROCEDURAL NOTES SEE SHEET "QUANTITIES & GENERAL NOTES".

LEGEND:

- LIMIT OF CONCRETE SURFACE REPAIRS
- LIMIT OF EPOXY INJECTED CRACK REPAIR
- EXISTING CONCRETE
- EXISTING AND PROPOSED GROUND

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)

PIER 2 REPAIRS

SHEET NUMBER: S-07
CONTRACT: 2015.01
52 OF 69

Date: 1/16/2015

Username:

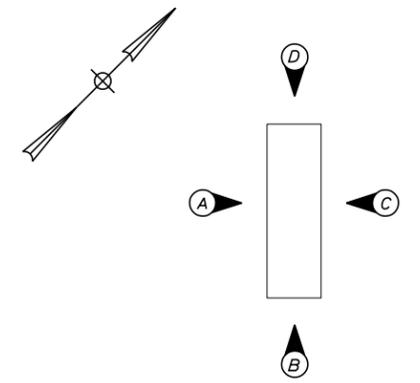
Division: HIGHWAY

Filename: ... \MSTA\010_Pier_3_3_Repair.dgn

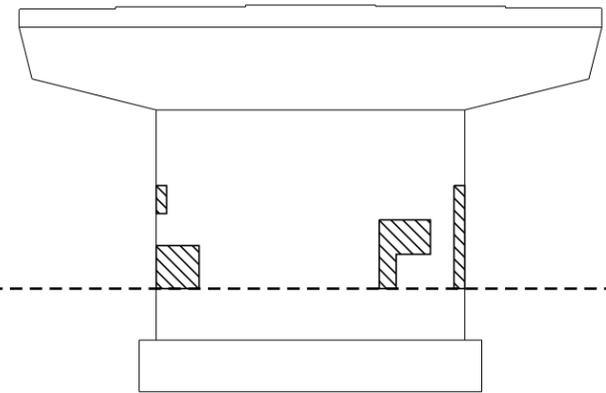
T:\Falmouth\Projects\2013\41747.00 - MTA-5 Bridge Repairs Phase I



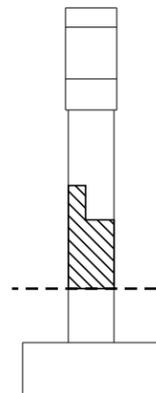
PLAN



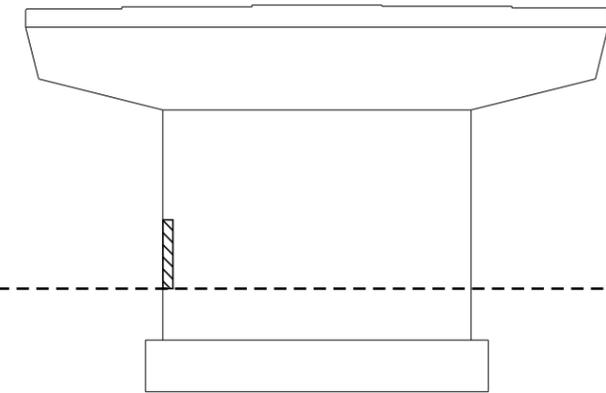
PIER ELEVATIONS



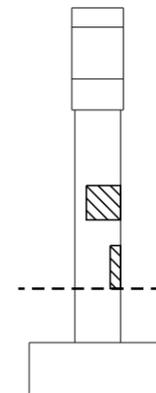
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

PIER 3 (NORTH PIER)

NOTES:

- 1. FOR CONCRETE REPAIR DETAIL SEE SHEET "ABUTMENT I REPAIRS".
- 2. FOR PROCEDURAL NOTES SEE SHEET "QUANTITIES & GENERAL NOTES".

LEGEND:

- LIMIT OF CONCRETE SURFACE REPAIRS
- LIMIT OF EPOXY INJECTED CRACK REPAIR
- EXISTING CONCRETE
- EXISTING AND PROPOSED GROUND

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



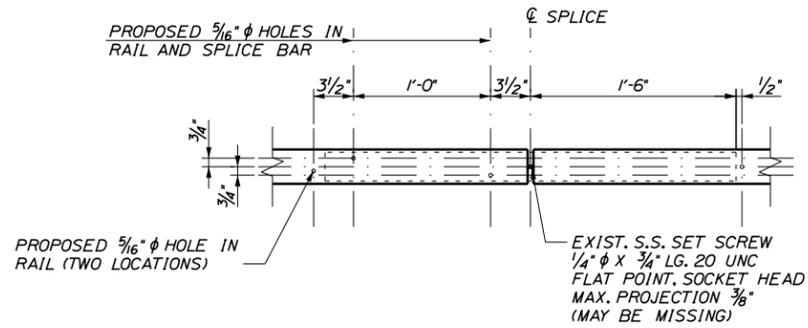
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)

PIER 3 REPAIRS

SHEET NUMBER: S-08
CONTRACT: 2015.01
53 OF 69

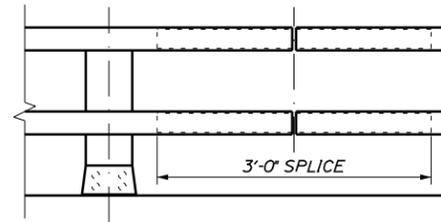


SPLICE MODIFICATION DETAIL

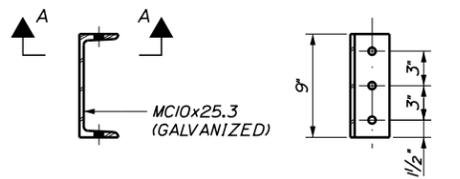
(ELEVATION VIEW FROM BACK SIDE OR RAIL)
1 1/2" = 1'-0"

SPLICE NOTES:

1. RE-CENTER EXISTING SPLICE BAR AND DRILL TWO 5/16" ϕ HOLES AND INSTALL TWO 3/8" ϕ X 1" TYPE F, HEX. WASHER HEAD TAPPING SCREWS (STAINLESS). DRILL TWO ADDITIONAL 5/16" ϕ HOLES IN RAIL FOR SPLICE LOCATION VERIFICATION.
2. ANY REQUIRED REPLACEMENT SPLICE BARS SHALL BE SUPPLIED BY THE AUTHORITY.



RAILING - ELEVATION
N.T.S.



SIGN SUPPORT **SECTION A-A**

BRIDGE OVERPASS-MOUNTED SIGN SUPPORT DETAILS

1 1/2" = 1'-0"
(4 REQUIRED)

BRIDGE OVERPASS-MOUNTED SIGN SUPPORT NOTES

1. ONE OVERPASS MOUNTED STREET SIGN SHALL BE PLACED ON EACH BRIDGE FASCIA OVER THE MEDIAN. THE WEST FASCIA SIGN SHALL BE MOUNTED TO THE PARAPET. LOCATION OF STREET SIGN SUPPORT SHALL BE FIELD LOCATED BY THE RESIDENT.
2. BOLTS SHALL BE 1/2" DIAMETER A325 TYPE 1 GALVANIZED.
3. WEST SIDE PARAPET CONNECTION SHALL BE MADE WITH AN APPROVED CONCRETE ADHESIVE ANCHOR SYSTEM.
4. SIGN BRACKETS SHALL BE LOCATED WITHIN TWO FEET OF SIGN ENDS. BRACKET SPACING SHALL BE 5' ON CENTER MAXIMUM.
5. STREET SIGNS SHALL BE PROVIDED BY THE MAINE TURNPIKE AUTHORITY.
6. PAYMENT FOR WORK WILL BE MADE UNDER ITEM 645.135.

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Norman L. Baker					
	By	Date		By	Date
Designed	NLB	01/2015	Checked	DSM	01/2015
Drawn	SAM	01/2015	In Charge of	NLB	01/2015

T.Y. Lin International
12 Northbrook Drive
Building A, Suite One
Falmouth, Maine 04105
TEL: (207) 781-4721
FAX: (207) 781-4753



**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

**ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)**

MISCELLANEOUS DETAILS

SHEET NUMBER: S-09
CONTRACT: 2015.01 54 OF 69

Date: 1/16/2015 Username: Division: HIGHWAY Filename: ... \BRIDGE\MSTA\011_Misc_Details.dgn

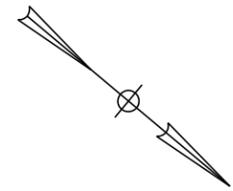
T:\Falmouth\Projects\2013\411747.00 - MTA-5 Bridge Repairs Phase I

Date: 1/16/2015

Username:

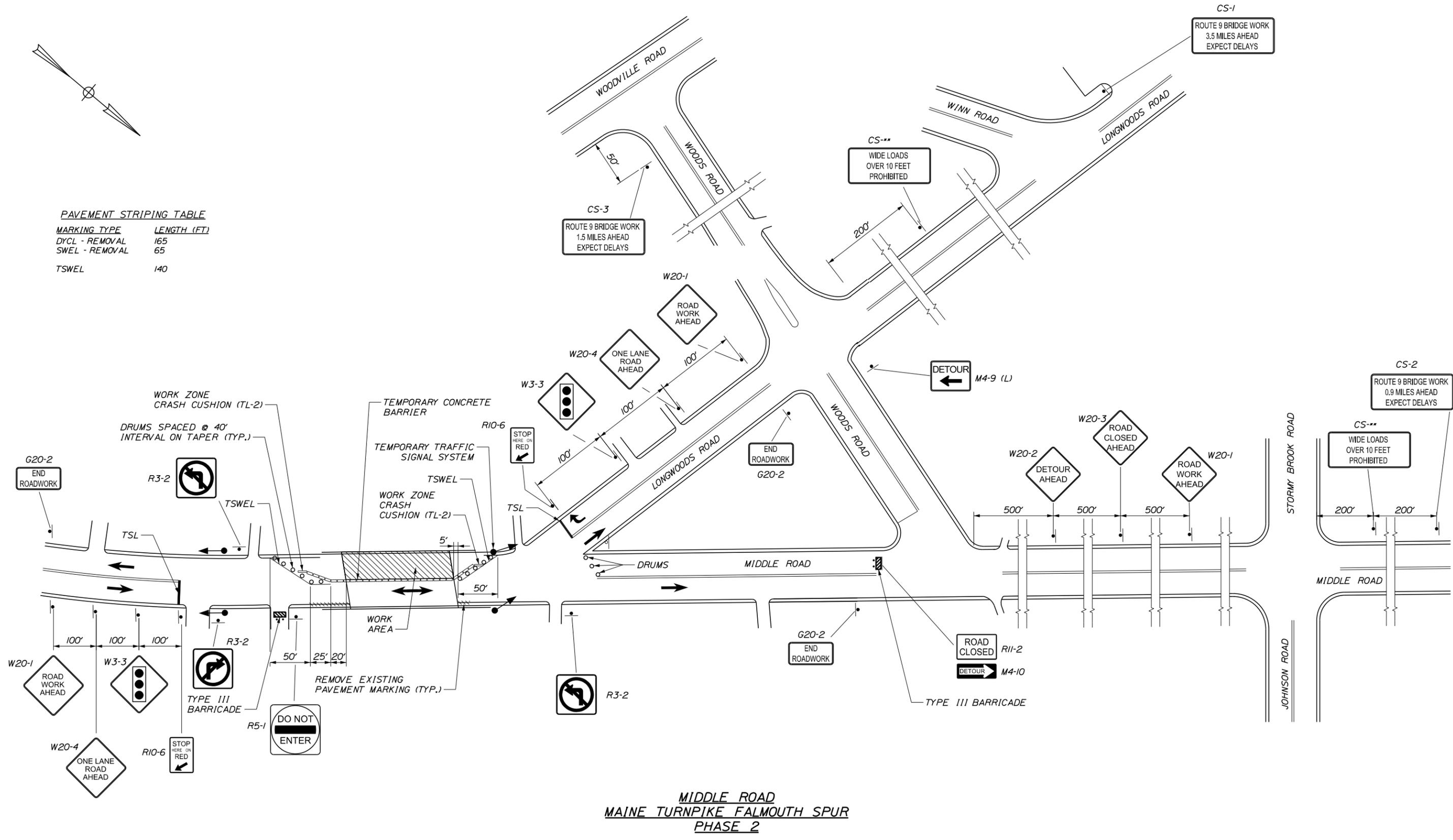
Division: HIGHWAY

Filename: ... \MSTA\013_MOT_DET_02.dgn



PAVEMENT STRIPING TABLE

MARKING TYPE	LENGTH (FT)
DYCL - REMOVAL	165
SWEL - REMOVAL	65
TSWEL	140



**MIDDLE ROAD
MAINE TURNPIKE FALMOUTH SPUR
PHASE 2**

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	ARG	9/20/2014	Checked	JRH	10/02/2014
Drawn	SAM	10/02/2014	In Charge of	NLB	10/02/2014

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753

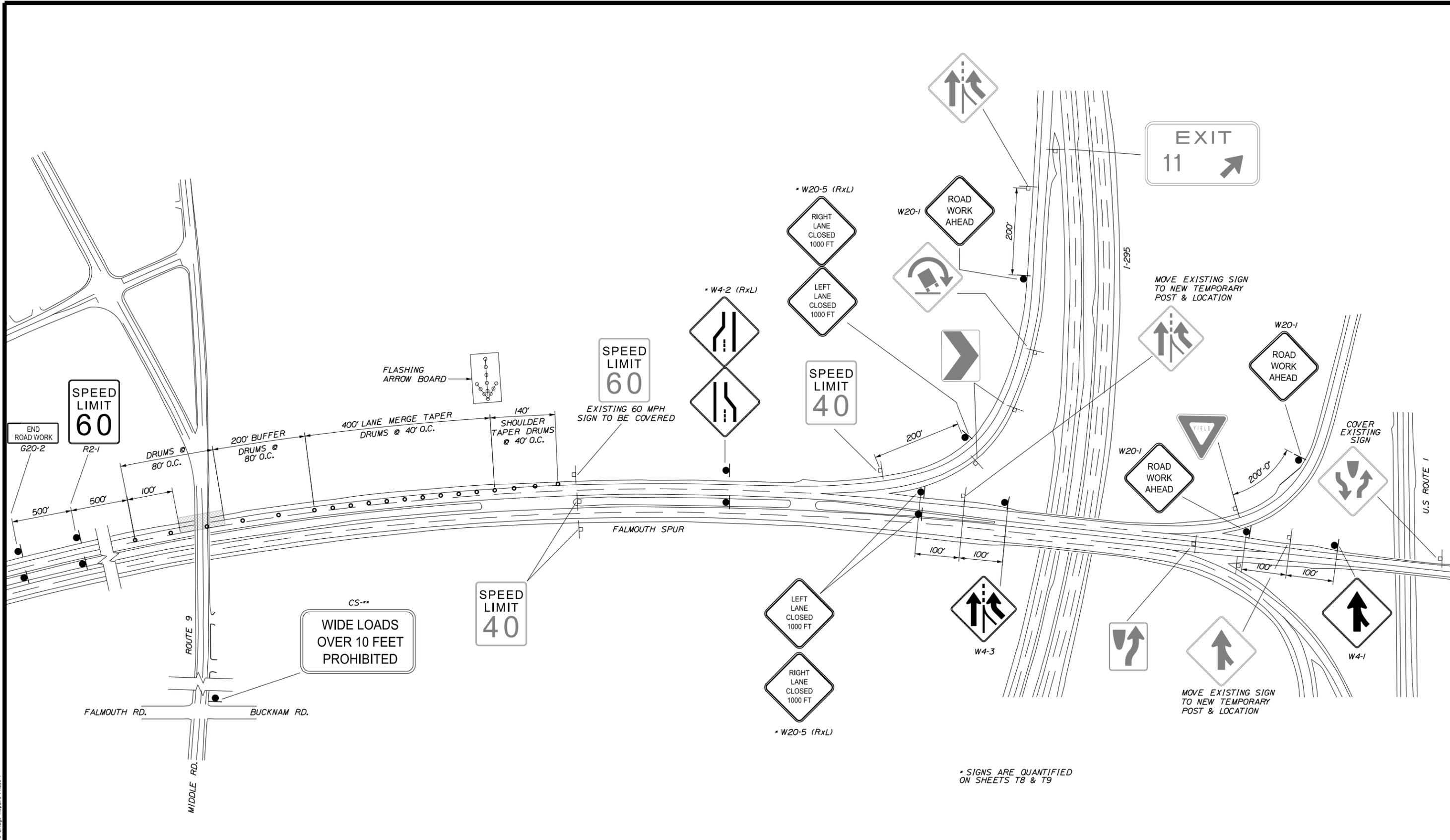


**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

**ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)
TRAFFIC CONTROL LANE CLOSURE
DETAILS PHASE 2**

SHEET NUMBER: MT-02
CONTRACT: 2015.01
56 OF 69



* SIGNS ARE QUANTIFIED ON SHEETS T8 & T9

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	ARG	09/20/2014	Checked	JRH	10/02/2014
Drawn	SAM	10/02/2014	In Charge of	NLB	10/02/2014

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753

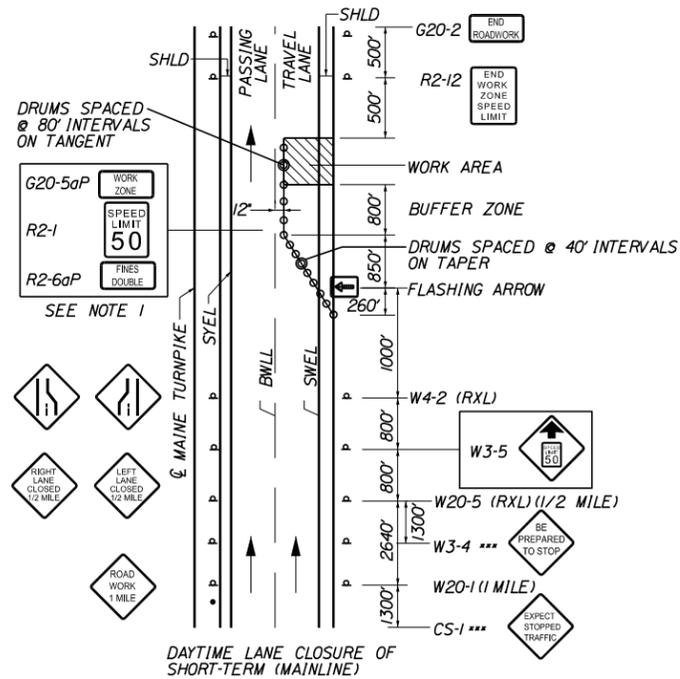
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS (MILE F3.7)

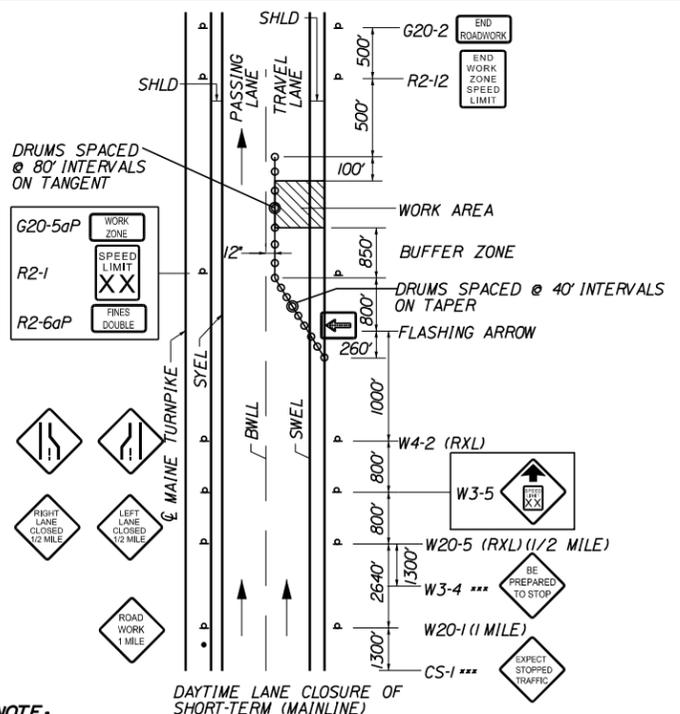
TRAFFIC CONTROL DETAILS
 WESTBOUND FALMOUTH SPUR

SHEET NUMBER: MT-03
 CONTRACT: 2015.01
 57 OF 69



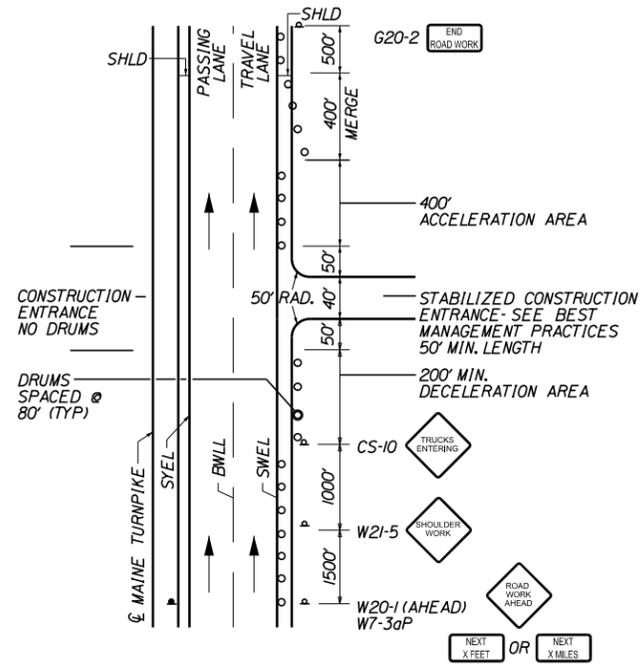
NOTES:
 1. FOR EASEL SET UP ONLY, THIS SIGN IS NOT BRACKETED. ONE SIGN ASSEMBLY IS PLACED AT THE END OF THE TAPER.
 2. SIGNS DESIGNATED WITH *** SHALL BE USED DURING STOPPAGES OF TRAFFIC.

SINGLE LANE CLOSURE- SIGNS ON EASELS



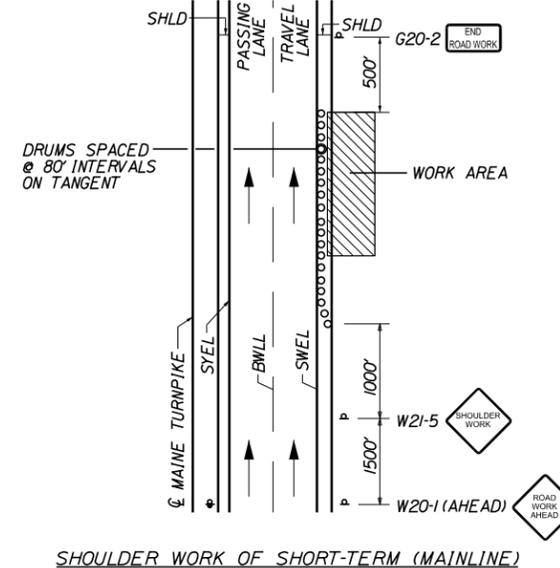
NOTE:
 SIGNS DESIGNATED WITH *** SHALL BE USED DURING STOPPAGES OF TRAFFIC.

SINGLE LANE CLOSURE- POST MOUNTED SIGN SETUP



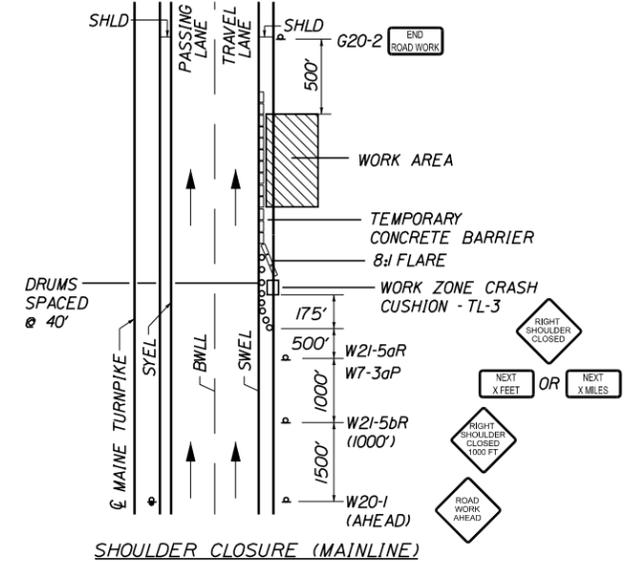
NOTES:
 1. SIGN G20-2 IS NOT REQUIRED IF ENTRANCE IS WITHIN THE WORK ZONE.
 2. "TRUCKS ENTERING" SIGN SHALL ALSO BE USED AT LOCATIONS WHERE TRUCKS ENTER THE WORK ZONE FROM THE TRAVEL LANE.

STABILIZED CONSTRUCTION ENTRANCE



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

SHOULDER WORK



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

SHOULDER CLOSURE

NOTE:
 SEE TRAFFIC CONTROL LANE CLOSURE DETAILS - 2 OF 3 FOR GENERAL MAINTENANCE OF TRAFFIC NOTES AND ABBREVIATIONS FOR ALL M.O.T. PLANS.

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

By	Date	By	Date
Designed	ARG 09/20/2014	Checked	JRH 10/02/2014
Drawn	SAM 10/02/2014	In Charge of	NLB 10/02/2014

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



THE GOLD STAR
 MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS
 (MILE F 3.7)
 TRAFFIC CONTROL LANE CLOSURE
 DETAILS

CONTRACT: 2015.01

SHEET NUMBER: MT-04
 58 OF 69

GENERAL MAINTENANCE OF TRAFFIC NOTES:

1. ALL WORK TO CONFORM TO THE 2002 MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, REVISION OF 2002, EXCEPT AS MODIFIED BY THE MAINE TURNPIKE AUTHORITY'S GENERAL AND SPECIAL PROVISIONS.
2. ALL PAVEMENT STRIPING AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.
3. THESE PLANS SHOW THE GENERAL CONDITION FOR 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 627.76 - TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW. TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMENT SURFACE OR EXISTING PAVEMENT TO REMAIN SHALL BE TEMPORARY PAVEMENT MARKING TAPE TO BE REMOVED PRIOR TO FINAL PAVEMENT MARKING.
6. 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.
7. AT NO TIME SHALL SHOULDER CLOSURES ON BOTH SIDES OF THE TRAVEL LANES ON THE SAME SIDE OF THE MAINLINE OCCUR.
8. WORK WITHIN SHOULDER CLOSURES SHALL BE CONTINUOUS TO MINIMIZE IMPACTS TO MAINLINE TRAFFIC.
9. CONTRACTOR SHALL COORDINATE ALL MAINTENANCE OF TRAFFIC WITH ADJACENT PROJECTS.
10. WHEN TRUCK MOUNTED ATTENUATORS ARE INCLUDED IN THE CONTRACT (INCIDENTAL OR PAY ITEM), THEY SHALL BE LOCATED WITHIN THE WORK ZONE, NOT THE BUFFER ZONE.
11. LOCATIONS OF SIGNS AND PAVEMENT MARKINGS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
12. ALL PAVEMENT STRIPING AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., FHWA, LATEST EDITION.
13. REMOVE ALL TEMPORARY PAVEMENT MARKINGS AFTER COMPLETION OF THE PROJECT; THE CONTRACTOR SHALL REPLACE ALL EXISTING PAVEMENT MARKINGS IN KIND AFTER COMPLETION OF THE PROJECT.

- BWLL = BROKEN WHITE LANE LINE
- DYCL = DOUBLE YELLOW CENTER LINE
- SWEL = SINGLE WHITE EDGE LINE
- SWLL = SINGLE WHITE LANE LINE
- SYEL = SINGLE YELLOW EDGE LINE
- TSWEL = TEMPORARY SOLID WHITE EDGE LINE
- TSL = TEMPORARY 12" STOP LINE

GENERAL NOTE:

1. FOR SIGN DETAILS SEE MAINTENANCE OF TRAFFIC SIGN SUMMARY SHEETS.

TEMPORARY SIGNAL NOTES:

1. LOCATIONS OF TRAFFIC SIGNAL SYSTEMS ARE APPROXIMATE. FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER. STOP BARS SHALL BE LOCATED A MINIMUM OF 40 FEET AND A MAXIMUM OF 120 FEET FROM THE NEAREST SIGNAL HEAD.
2. TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER AND ORDER THE WILL CAUSE THE MINIMUM DISRUPTION TO TRAFFIC.
3. ALL SIGNAL SECTIONS SHALL HAVE LED LENSES 12 INCHES IN DIAMETER WITH 5 INCH BACK PLATES AND SHALL BE ANGLED SO THAT THEY ARE VISIBLE TO ALL VEHICLES APPROACHING THE INTERSECTION.
4. TEMPORARY TRAFFIC SIGNAL SYSTEMS MAY BE SPAN WIRE, MAST ARM OR MOBILE TRAILER MOUNTED SIGNAL HEADS WITH ALL NECESSARY POWER SUPPLY AND SIGNAL TIMING CONTROL TYPE AND POSITION OF TEMPORARY SIGNAL SYSTEM SHALL BE SUCH THAT THE SIGNALS ARE ALSO VISIBLE TO VEHICLES IN DRIVEWAYS IN VICINITY OF THE WORK AREA.
5. THE BOTTOM OF THE HOUSING OF NEW SIGNAL FACES SHALL BE AT LEAST 16 FEET BUT NO MORE THAN 19 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
6. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE UTILITY COMPANIES WHEN MODIFYING/ INSTALLING SERVICE CONNECTIONS AND WHEN INSTALLING EQUIPMENT ON THEIR POLES OR NEAR THEIR WIRES. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING POWER METERS, IF REQUIRED, AND ASSURING THE POWER METER LOCATION AND INSTALLATION CONFORMS TO THE LOCAL UTILITY REQUIREMENTS. THIS WORK SHALL BE INCIDENTAL TO ITEM 643.72 - TEMPORARY TRAFFIC SIGNAL. THE SERVICE POLE, WIRING, METER SOCKET AND DISCONNECT/ POWER PANEL SHALL ALSO BE INCIDENTAL TO ITEM 643.72 - TEMPORARY TRAFFIC SIGNAL.
7. ALL POWER AND CONTROL SPLICES WILL BE MADE IN THE CABINETS MEETING MDOT SPECIFICATIONS.
8. THE CONTRACTOR WILL NOT BE ALLOWED TO ATTACH ANY SIGNING OR SPAN WIRE TO EXISTING UTILITY POLES.
9. THE CONTRACTOR SHALL INSTALL ALL SPAN WIRE, POLES, SIGNS AND ALL OTHER TEMPORARY TRAFFIC CONTROL ELEMENTS WHILE MAINTAINING A MINIMUM 10 FOOT CLEARANCE FROM ALL OVERHEAD LINES.
10. THE CONTRACTOR SHALL VERIFY THAT THERE ARE NO UNDERGROUND UTILITY CONFLICTS PRIOR TO INSTALLING TEMPORARY POLES. A MINIMUM 2 FOOT CLEARANCE FROM ALL UNDERGROUND UTILITIES WILL BE REQUIRED.
11. ALL SIGNAL RELATED SIGNS SHALL BE REMOVED OR COVERED WHEN THE SIGNAL IS NOT IN OPERATION.
12. THE CONTRACTOR SHALL SET TIMING OF THE TWO TEMPORARY TRAFFIC SIGNALS PER TIMING DATA PROVIDED ON THIS SHEET. SIGNAL TIMING ADJUSTMENTS SHALL BE APPROVED BY THE RESIDENT AND ACCOMPLISHED AS DIRECTED BY THE RESIDENT. IF SIGNIFICANT QUEUES REQUIRE THE ADJUSTMENT OF THE SIGNAL AT THE ROUTE 9/BUCKNAM ROAD INTERSECTION, SIMILAR ADJUSTMENTS WILL BE PERFORMED AT THE DIRECTION OF THE RESIDENT. PAYMENT FOR ALL SIGNAL ADJUSTMENTS SHALL BE INCIDENTAL TO THE TRAFFIC SIGNAL SYSTEM.

SIGNAL TIMING (SECONDS)

INTERSECTION	NORTH APPROACH					SOUTH APPROACH			
	SBT					NBT			
PHASE	1	2	3	4	5	6	7	8	9
MIN GREEN	-	4	-	-	-	-	-	4	-
YELLOW	-	3.5	-	-	-	-	-	3.5	-
ALL RED	-	20	-	-	-	-	-	20	-
MAX SPLIT	-	60	-	-	-	-	-	80	-
VEH. EXTENSION	-	3	-	-	-	-	-	3	-

Date: 1/16/2015

Username:

Filename: ... \HIGHWAY\MSTA\016...MOT_NOTES.dgn Division: HIGHWAY

T:\Falmouth\Projects\2013\41747.00 - MTA-5 Bridge Repairs Phase I

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	ARG	9/20/2014	Checked	JRH	10/02/2014
Drawn	SAM	10/02/2014	In Charge of	NLB	10/02/2014

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



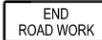
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph Norwood

**ROUTE 9 BRIDGE REPAIRS
(MILE F3.7)**

TRAFFIC CONTROL NOTES

SHEET NUMBER: MT-05
CONTRACT: 2015.01
59 OF 69

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
G20-2	48"	24"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			2	ORANGE	BLACK		8.00 (16)	
	36"	18"					3				4.50 (13.5)	
R3-2 (R)	24"	24"					1	WHITE	RED & BLACK		4.00 (4)	
R3-2 (L)	24"	24"					2				4.00 (8)	
R2-1	48"	60"					2	WHITE	BLACK		20.00 (40)	
R5-1	30"	30"					1	RED	WHITE		6.25 (6.25)	
R10-6	24"	36"					2	WHITE	BLACK		6.00 (12)	
R11-2	48"	30"					1	WHITE	BLACK		12.00 (12)	
M4-10 (RIGHT)	48"	18"					1	BLACK & ORANGE	BLACK		6.00 (6)	
M4-9 (LEFT)	30"	24"					1	ORANGE	BLACK		5.00 (5)	
W3-3	36"	36"					2	ORANGE	BLACK		9.00 (18)	
W3-4	48"	48"					2	ORANGE	BLACK		16.00 (32)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W7-3aP (0.1)	36"	30"					3	ORANGE	BLACK		7.50 (22.5)	
W20-1	48"	48"					5	ORANGE	BLACK		16.00 (80)	
	36"	36"					3				9.00 (27)	
W20-2	36"	36"					1	ORANGE	BLACK		9.00 (9)	
W20-3	36"	36"					1	ORANGE	BLACK		9.00 (9)	
W20-4	36"	36"					2	ORANGE	BLACK		9.00 (18)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date		By	Date
Designed	ARG	09/20/2014	Checked	JRH	10/02/2014
Drawn	SAM	10/02/2014	In Charge of	NLB	10/02/2014

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

ROUTE 9 BRIDGE REPAIRS (MILE F3.7)
 MAINTENANCE OF TRAFFIC SIGN SUMMARY 1

SHEET NUMBER: MT-06
 CONTRACT: 2015.01
 60 OF 69

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
W2I-5	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009			2	ORANGE	BLACK		16.00 (32)	
W2I-5a (RIGHT)	48"	48"					1	ORANGE	BLACK		16.00 (16)	
W2I-5b (RIGHT)	48"	48"					1	ORANGE	BLACK		16.00 (16)	
CS-1	48"	48"		6" 6"	4" 4"		1	ORANGE	BLACK		16.00 (16)	
CS-10	48"	48"		7" 7"	6"		1	ORANGE	BLACK		16.00 (16)	
CS--	96"	48"	RTE 9 BRIDGE WORK 3.5 MILES AHEAD EXPECT DELAYS	6"	4"		1	ORANGE	BLACK		32.00 (32)	
CS--	96"	48"	RTE 9 BRIDGE WORK 0.9 MILES AHEAD EXPECT DELAYS	6"	4"		1	ORANGE	BLACK		32.00 (32)	
CS--	96"	48"	RTE 9 BRIDGE WORK 1.5 MILES AHEAD EXPECT DELAYS	6"	4"		1	ORANGE	BLACK		32.00 (32)	
CS--	96"	48"	WIDE LOADS OVER 10 FEET PROHIBITED	8" 8" 8"	6" 6" 6"		3	ORANGE	BLACK		32.00 (96)	

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR		BORDER RADIUS	AREA IN SQUARE FEET	NOTES
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND BORDER			
				TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009								

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Norman L. Baker

	By	Date	By	Date	
Designed	ARG	09/20/2014	Checked	JRH	10/02/2014
Drawn	SAM	10/02/2014	In Charge of	NLB	10/02/2014

T.Y. Lin International
 12 Northbrook Drive
 Building A, Suite One
 Falmouth, Maine 04105
 TEL: (207) 781-4721
 FAX: (207) 781-4753

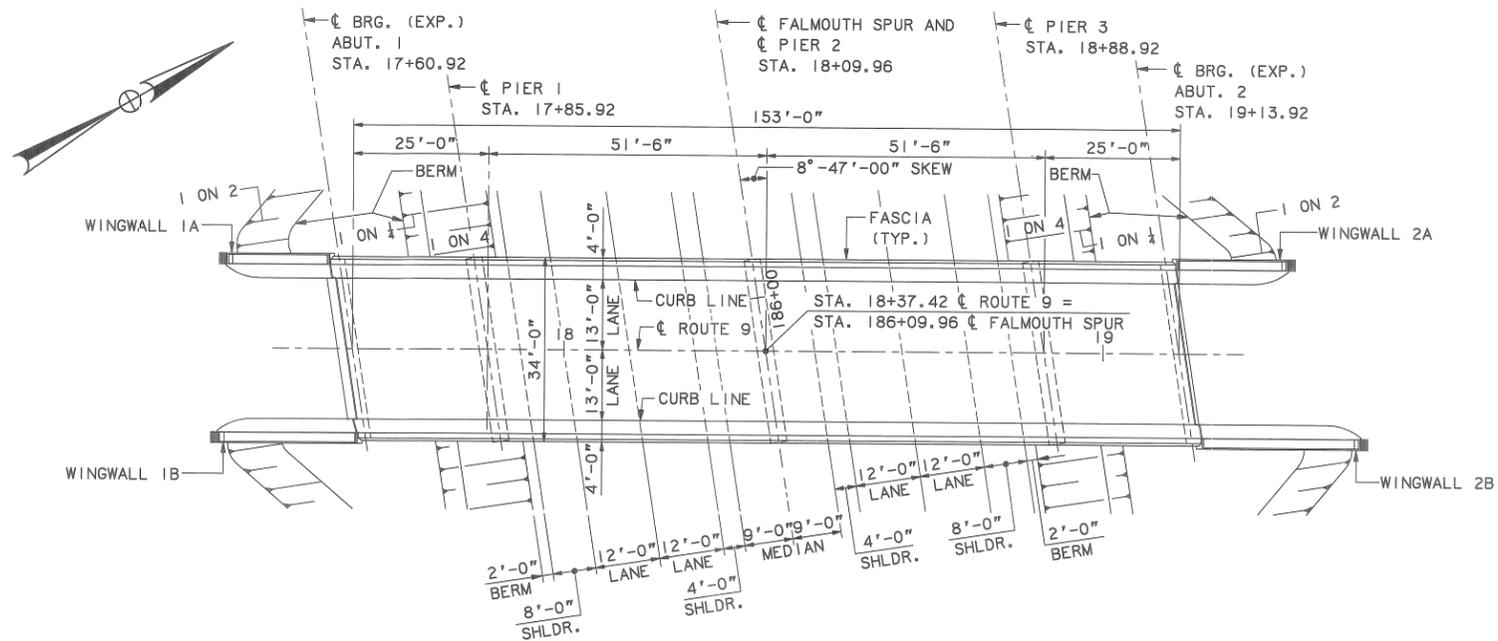


THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph Norwood

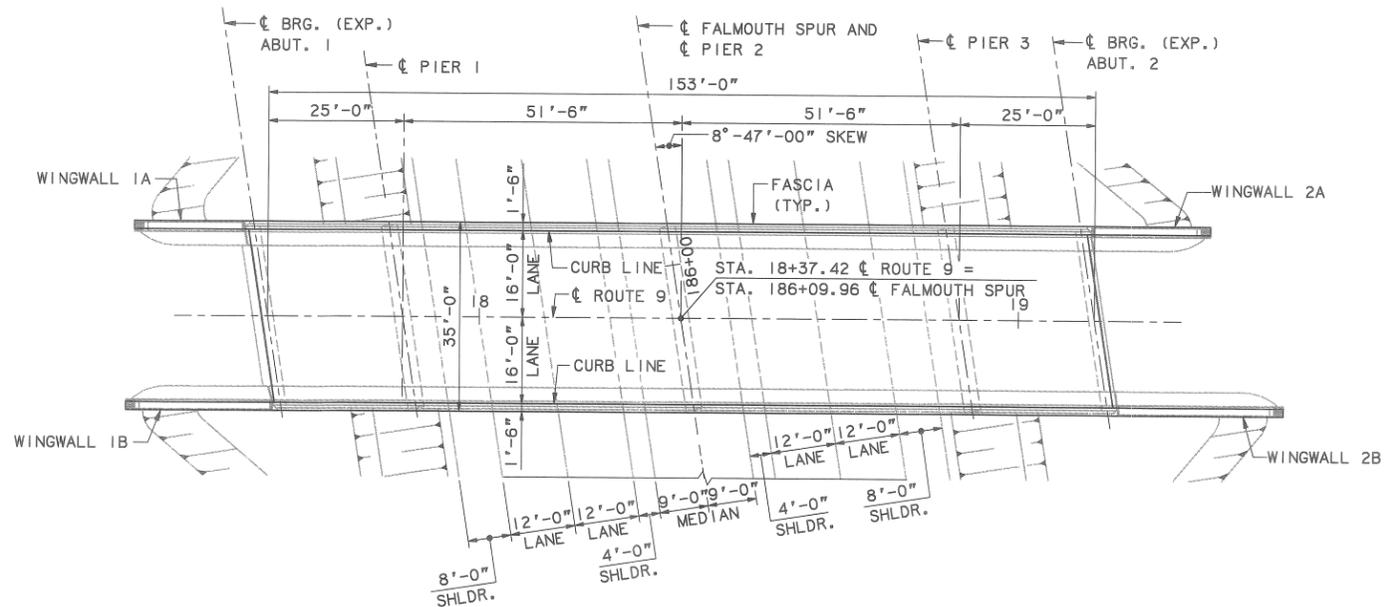
ROUTE 9 BRIDGE REPAIRS
 (MILE F3.7)
 MAINTENANCE OF TRAFFIC
 SIGN SUMMARY 2

SHEET NUMBER: MT-07
 CONTRACT: 2015.01
 61 OF 69



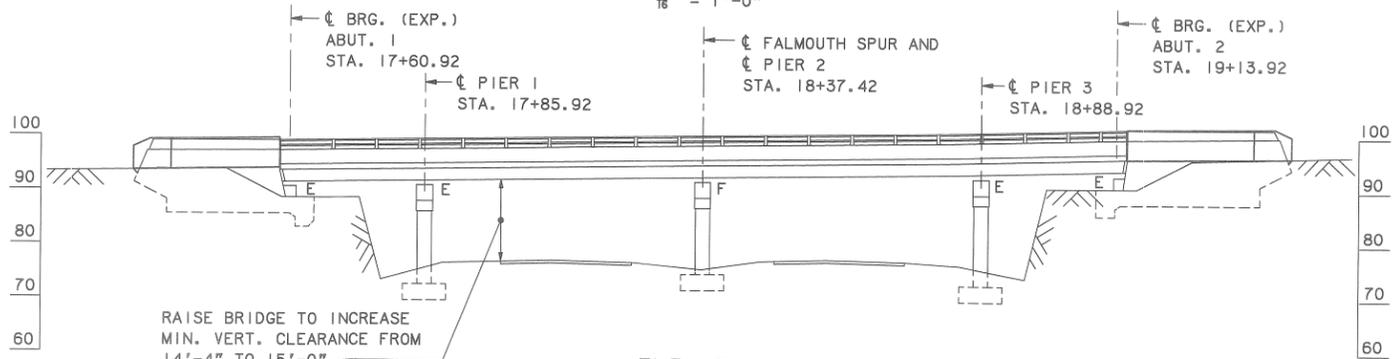
EXISTING PLAN

1/8" = 1'-0"



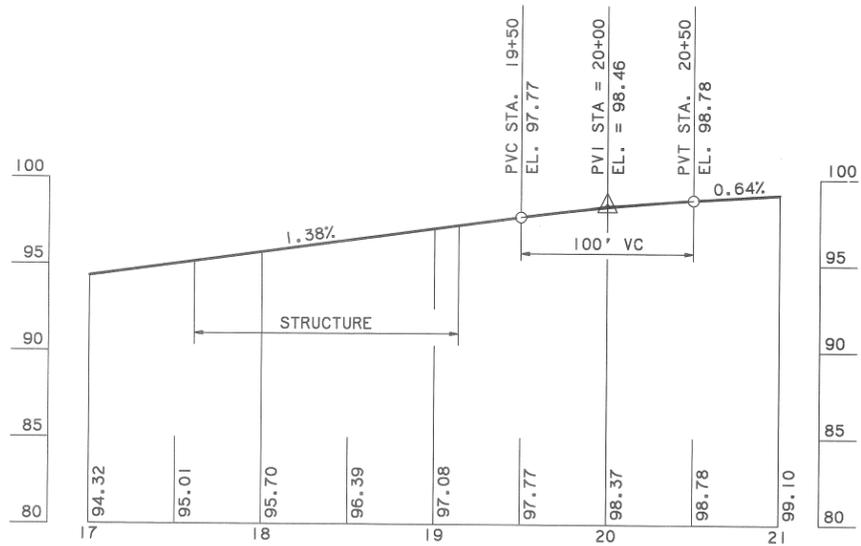
PROPOSED PLAN

1/8" = 1'-0"



ELEVATION

1/8" = 1'-0"



PROPOSED PROFILE

HORIZ. 1" = 50'
VERT. 1" = 5'

SHEET NUMBER: AB-01
62 of 69

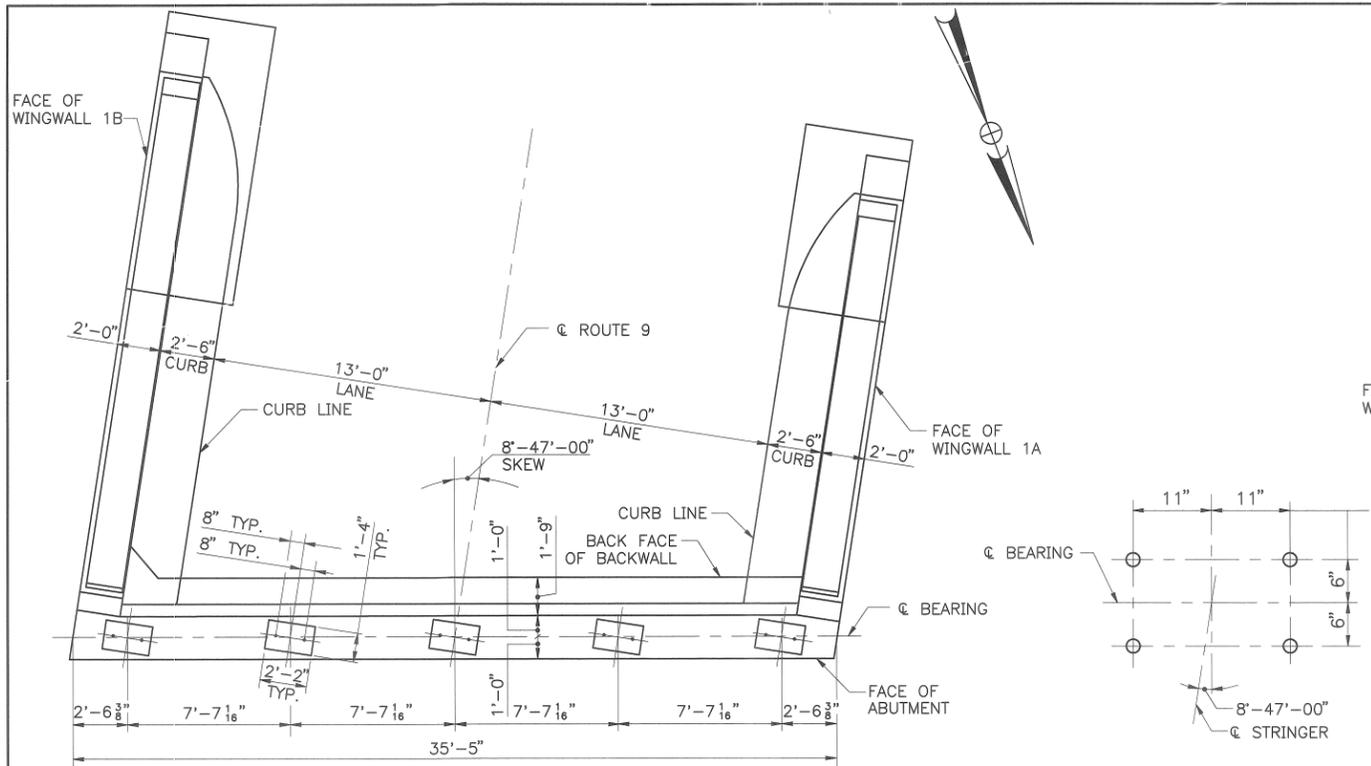
Maine Turnpike Authority
Maine Turnpike

ROUTE 9 UNDERPASS
GENERAL PLAN AND ELEVATION

HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF
ARCHITECTS ENGINEERS PLANNERS

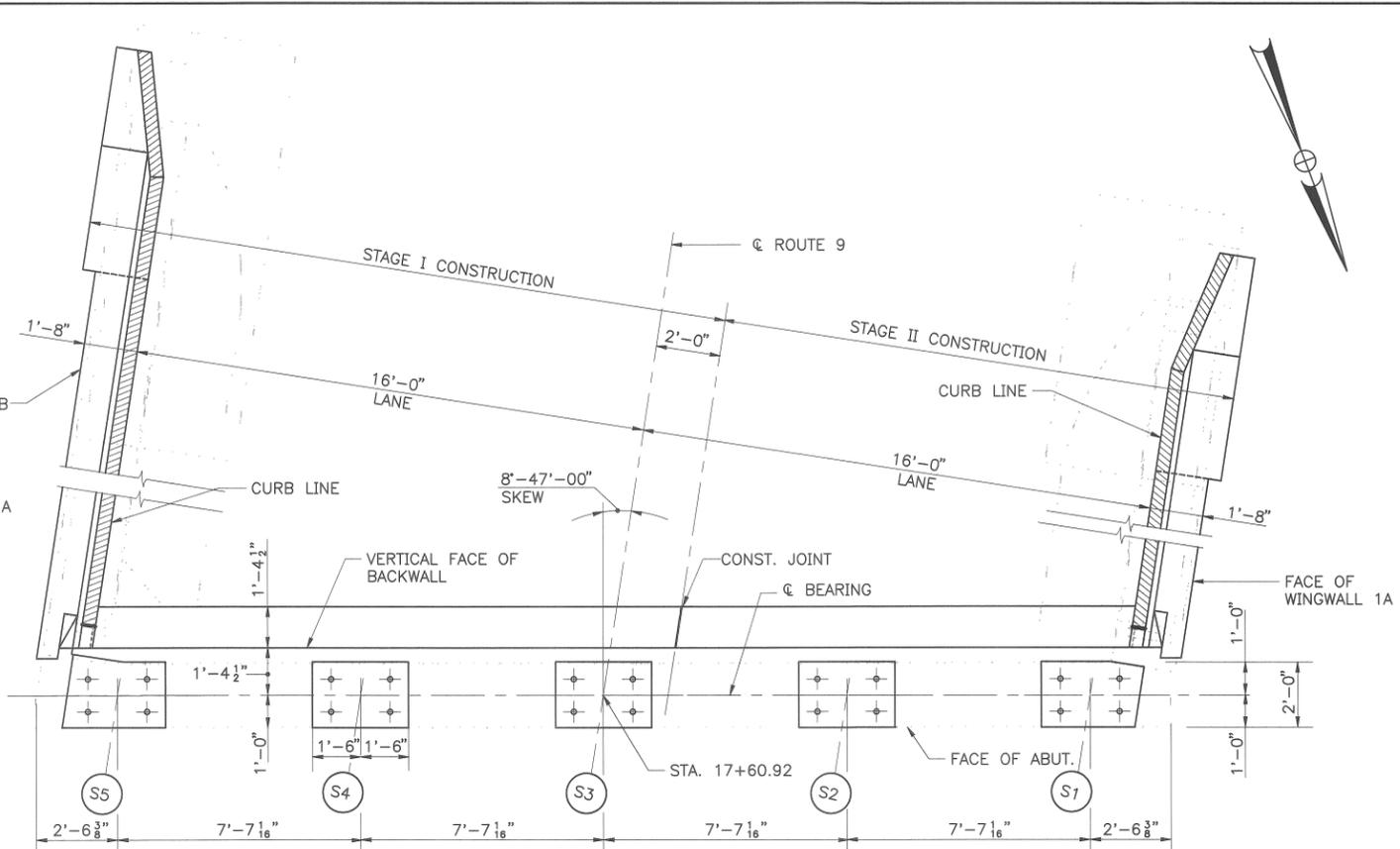
No.	Revision	By:	Date:	In charge of:	RAL
		Designed	JMH	2/95	
		Drawn	LS	2/95	
		Checked	HNL	2/95	

Contract 95.7
Sheet No. **RT-2**
30 of 47

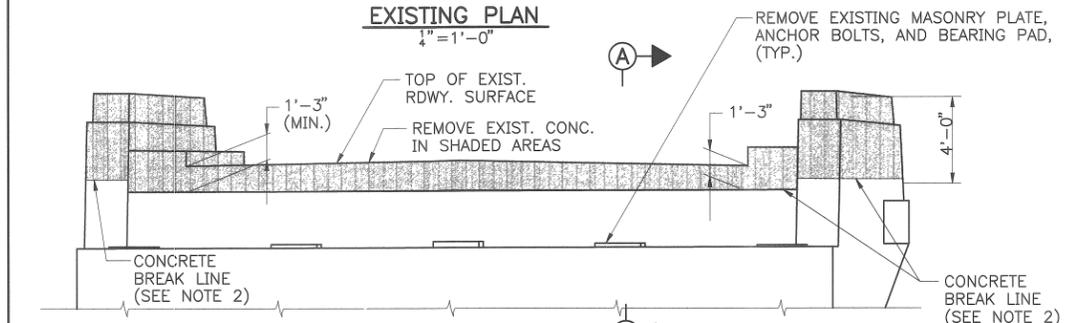


EXISTING PLAN
1/4" = 1'-0"

ANCHOR BOLT LAYOUT
1" = 1'-0"

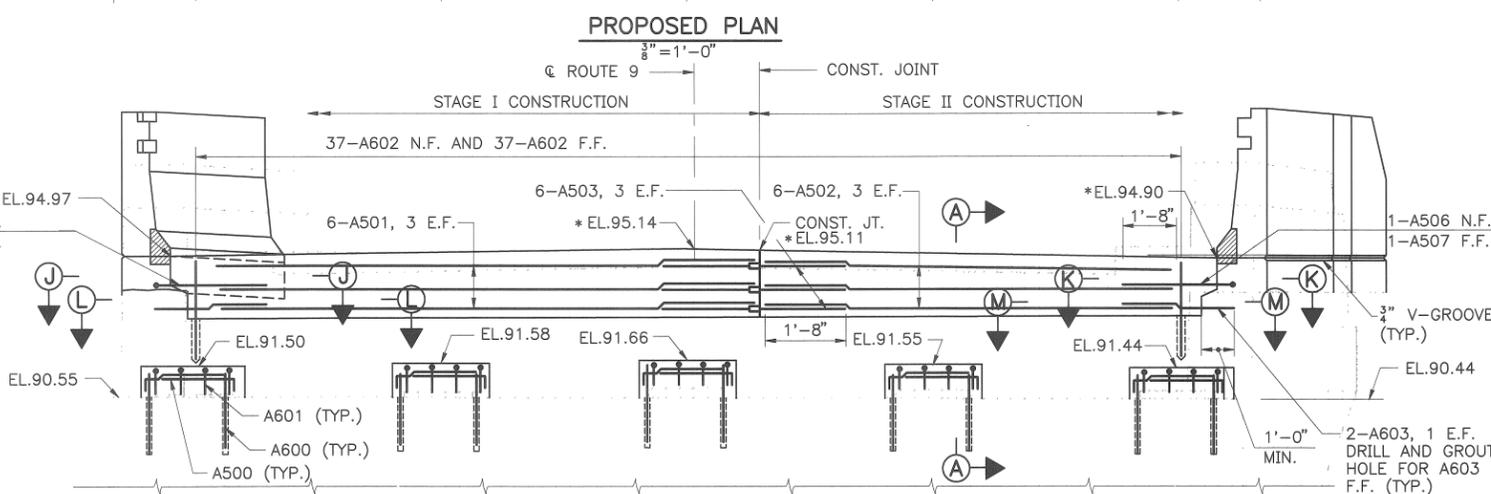


PROPOSED PLAN
3/8" = 1'-0"

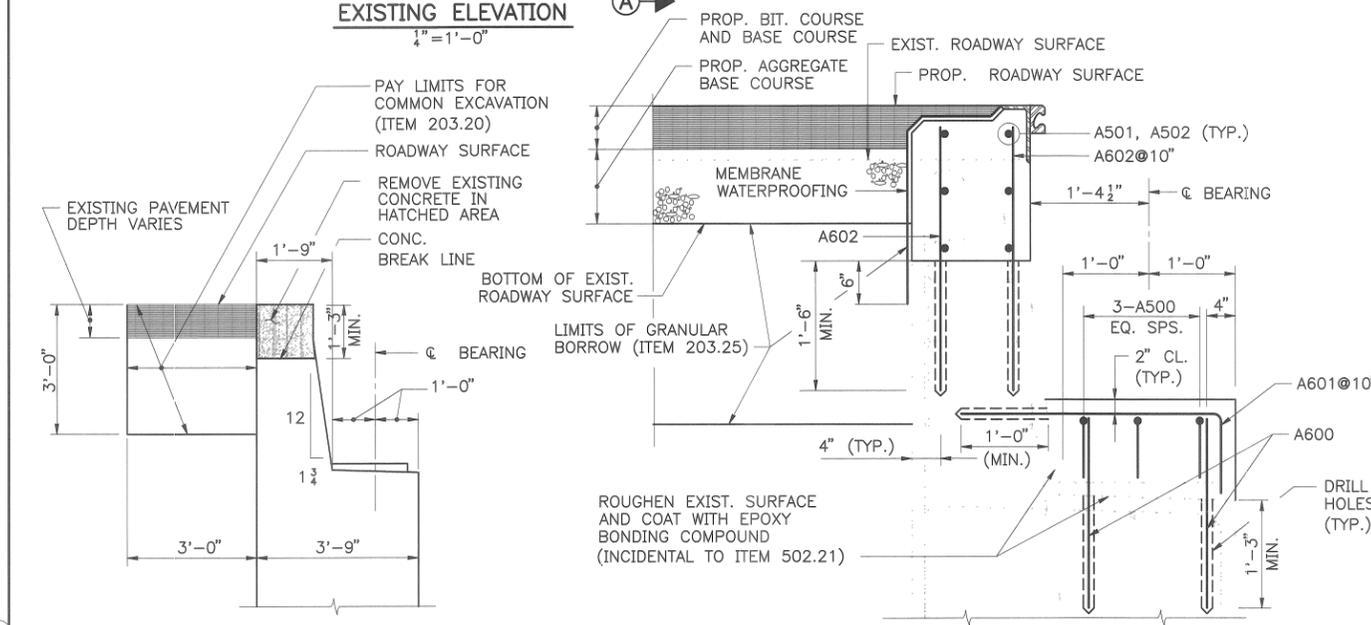


EXISTING ELEVATION
1/4" = 1'-0"

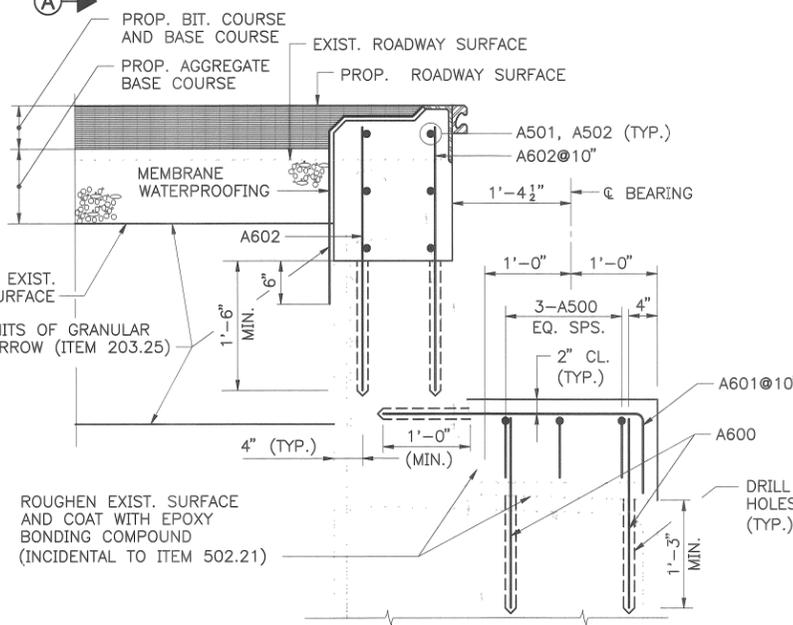
NOTE A
ANCHOR BOLT SPACING SHALL BE COORDINATED WITH THE BEARING MANUFACTURER.



PROPOSED ELEVATION
3/8" = 1'-0"



EXISTING SECTION A-A
1/2" = 1'-0"



PROPOSED SECTION A-A
1" = 1'-0"

NOTES

- FOR WINGWALL SECTIONS AND ELEVATIONS, SEE SHEET NOS. RT-6, RT-7, AND RT-8.
- SAW CUT 1" MIN. DEEP BEFORE REMOVING EXIST. CONCRETE.
- A600 REBARS SHALL BE LOCATED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF ANCHOR BOLTS FOR THE MASONRY PLATE
- FOR ROADWAY EXPANSION JOINT DETAIL, SEE SHEET NOS. RT-15 AND RT-16.
- FOR LIMITS OF CONCRETE PROTECTIVE COATING, SEE SHEET NO. RT-8.
- FOR SECTIONS J-J, K-K, L-L, AND M-M, SEE SHEET NO. RT-5.
- EXCAVATION FOR BACKWALL MODIFICATION AND ANY REQUIRED BACKWALL REPAIRS ARE TO BE PAID FOR UNDER 203.20 TO THE LIMITS SHOWN.
- * ELEVATIONS SHOWN ARE AT THE FRONT FACE OF THE BACKWALL.
- REMOVAL OF THE EXISTING ARMORED JOINT SHALL BE INCIDENTAL TO ITEM 202.122.
- REMOVAL OF THE EXISTING MASONRY PLATE, ANCHOR BOLTS, AND BEARING ASSEMBLY, SHALL BE INCIDENTAL TO ITEM 202.12.

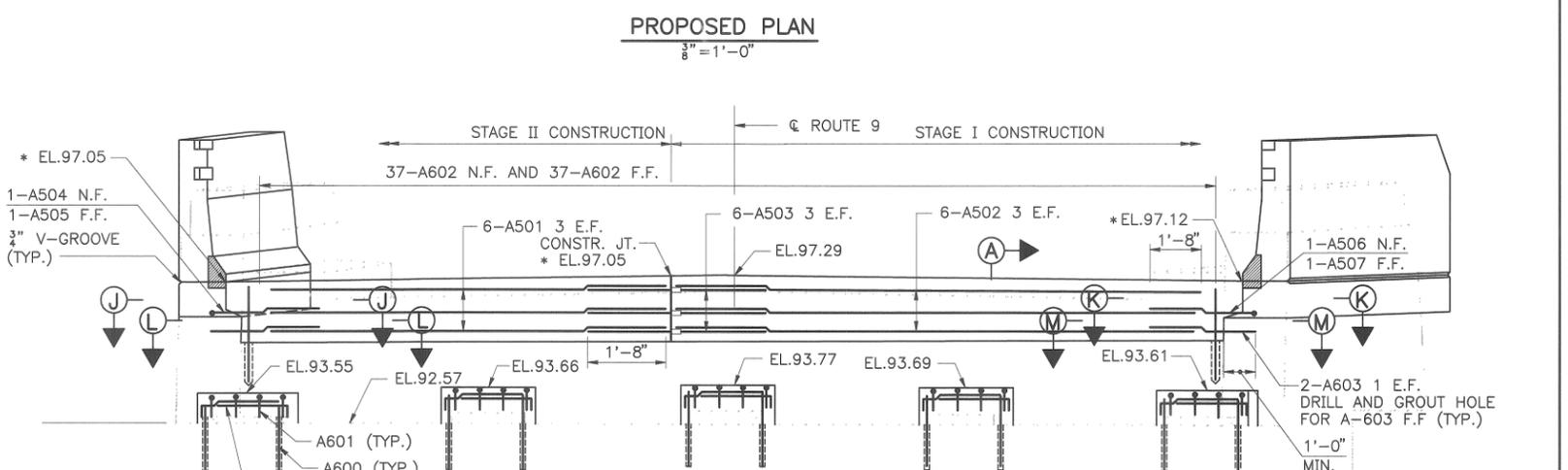
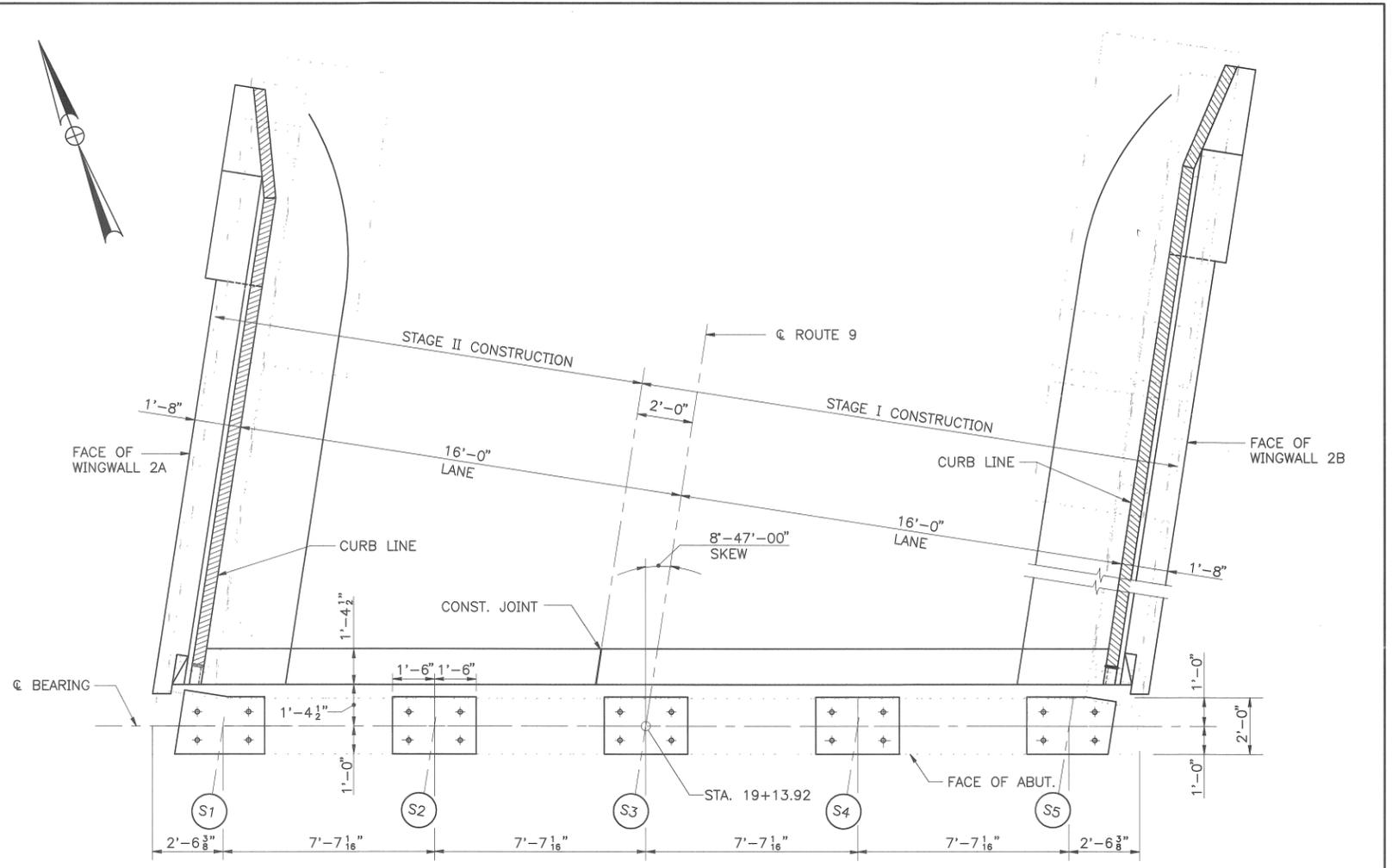
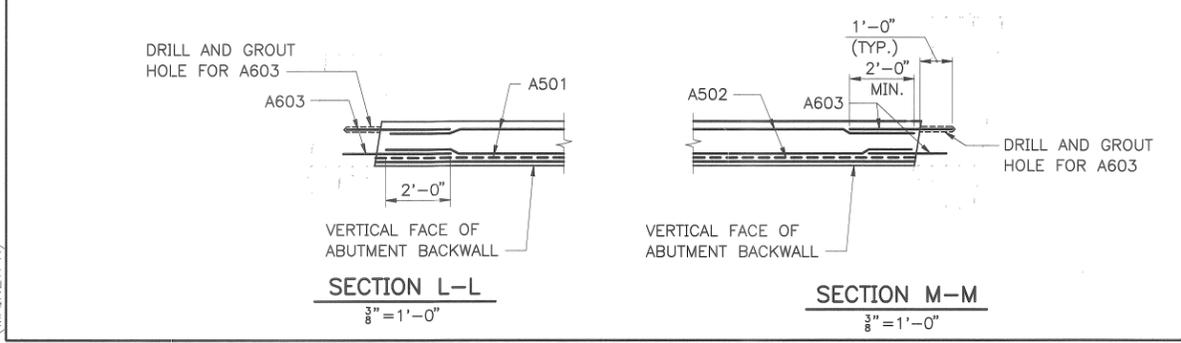
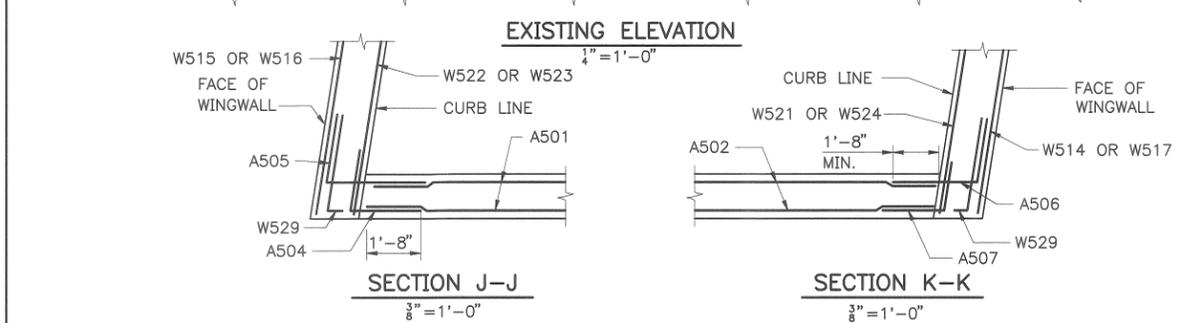
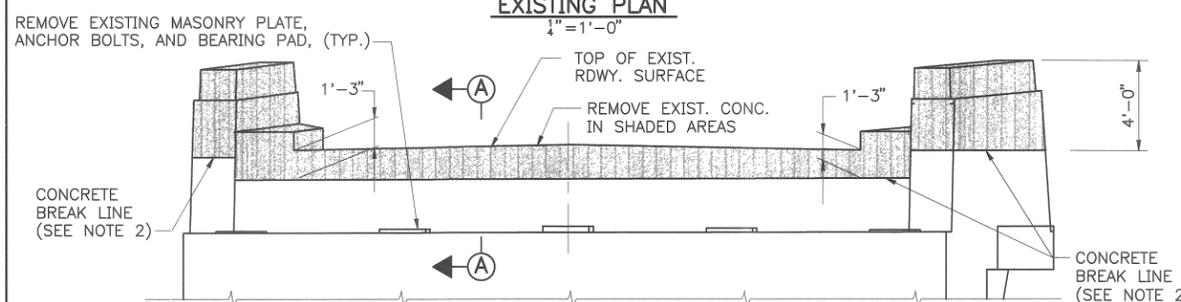
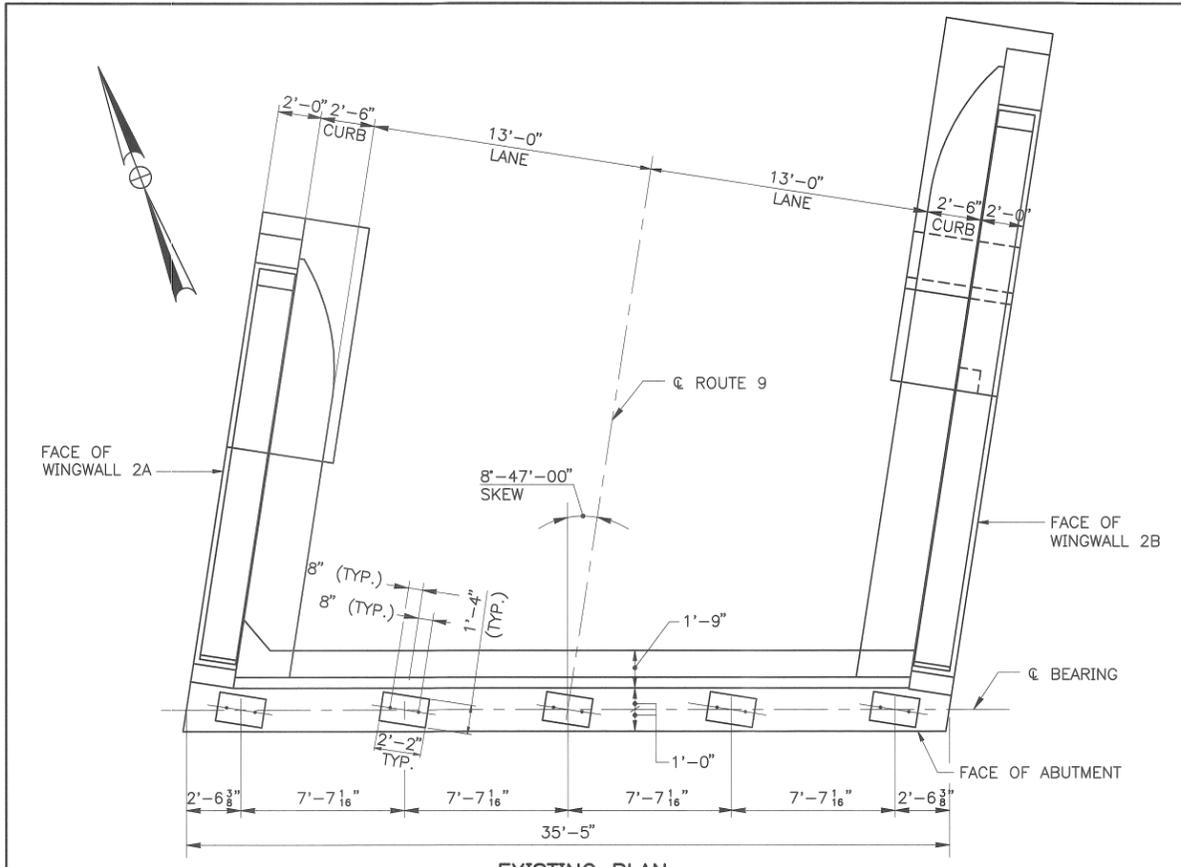
SHEET NUMBER: AB-02
63 of 69

Maine Turnpike Authority
Maine Turnpike
ROUTE 9 UNDERPASS
ABUTMENT 1 MODIFICATIONS

HNTB HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

Contract **95.7** Sheet No. **RT-4**
32 of 47

Designed	JMH	2/95
Drawn	LMR	2/95
Checked	HNL	2/95
In Charge Of:	RAL	



NOTES

1. FOR WINGWALL SECTIONS AND ELEVATIONS, SEE SHEET NOS. RT-6, RT-7, AND RT-8.
2. SAW CUT 1" MIN. DEEP BEFORE REMOVING EXISTING CONCRETE.
3. FOR EXISTING SECTION A-A, AND PROPOSED SECTION A-A, SEE SHEET NO. RT-4.
4. FOR ANCHOR BOLT LAYOUT, SEE SHEET NO. RT-4.
5. FOR ROADWAY EXPANSION JOINT DETAILS, SEE SHEET NOS. RT-15 AND RT-16.
6. * ELEVATIONS SHOWN ARE AT THE FRONT FACE OF THE BACKWALL.

SHEET NUMBER: AB-03
64 of 69

Maine Turnpike Authority
Maine Turnpike
ROUTE 9 UNDERPASS
ABUTMENT 2 MODIFICATIONS

HNTB HOWARD NEEDLES TAMMEN & BERGENOFF
ARCHITECTS ENGINEERS PLANNERS

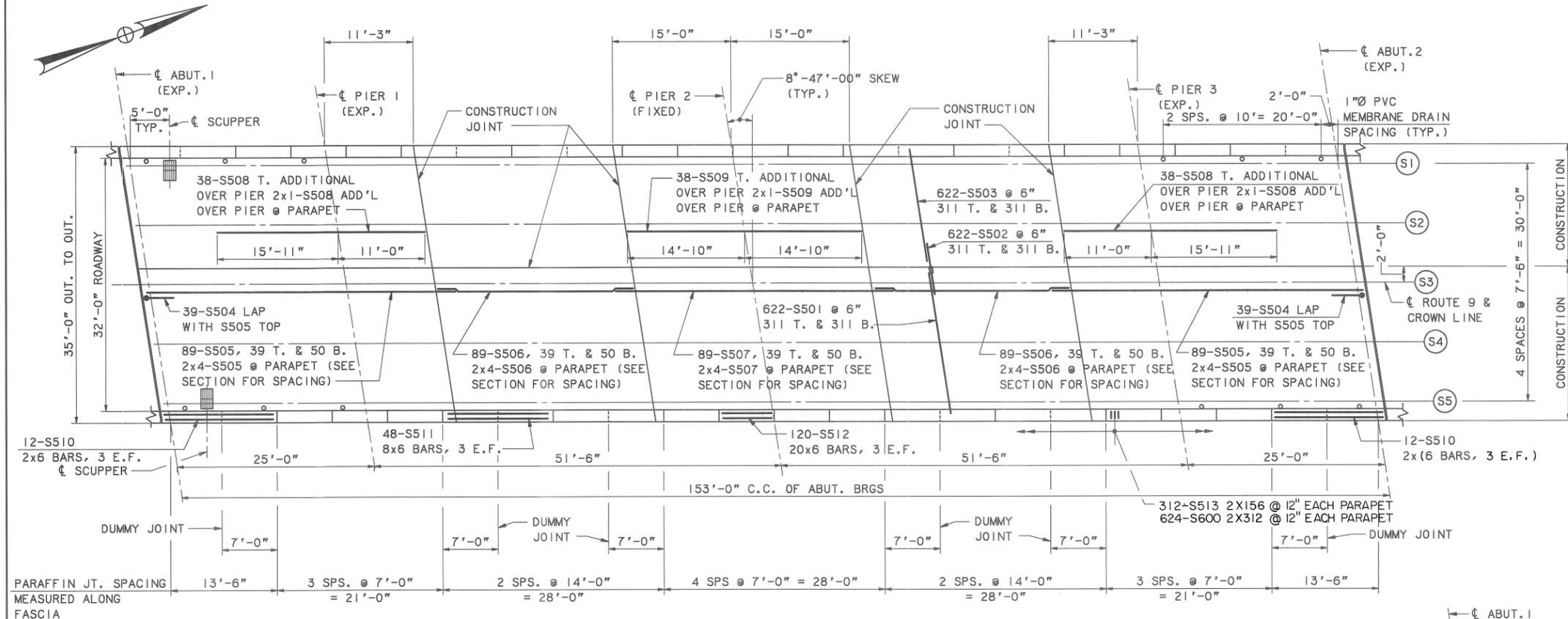
Contract **95.7** Sheet No. **RT-5**
33 of 47

Designed	JMH	2/95
Drawn	LMR	2/95
Checked	HNL	2/95

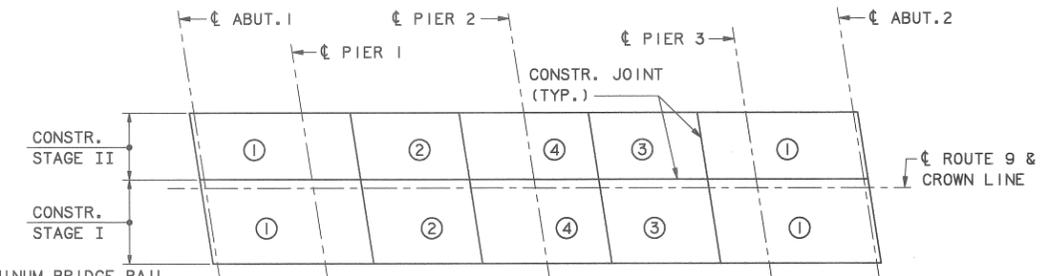
No.	Revision	By	Date	In Charge Of:	RAL
-----	----------	----	------	---------------	-----

SUPERSTRUCTURE NOTES

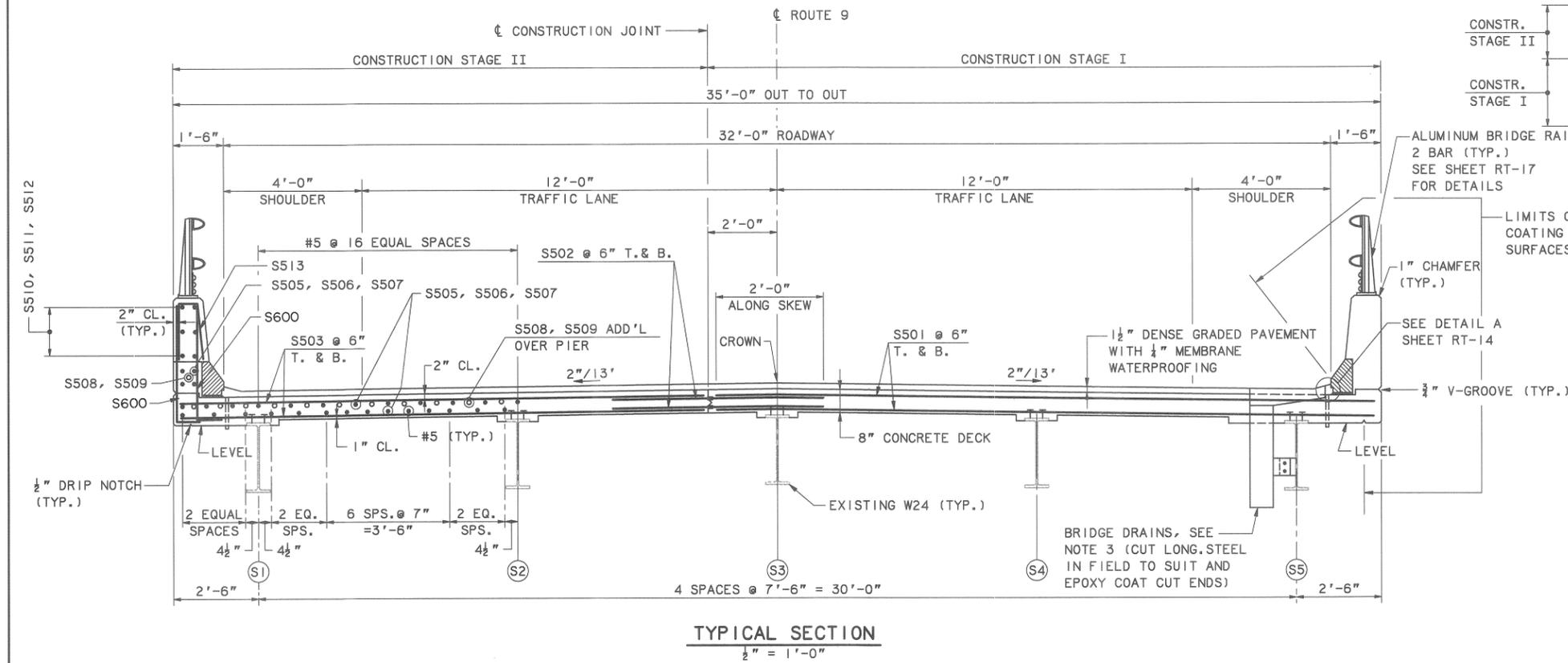
1. ADJUST REINFORCING STEEL TO FIT AROUND THE DRAINS IN A MANNER APPROVED BY THE ENGINEER. DO NOT CUT TRANSVERSE REINFORCING BARS.
2. FOR STEEL REINFORCING SCHEDULE, SEE SHEET RT-18.
3. FOR SCUPPER AND DRAIN DETAILS SEE SHEET NO. RT-13.
4. FOR 2-BAR ALUMINUM BRIDGE RAILING DETAILS, SEE SHEET NO. RT-17.
5. FOR SLAB DETAILS, SEE SHEET NOS. RT-13 AND RT-14.
6. FOR ROADWAY EXPANSION JOINT DETAILS, SEE SHEET NOS. RT-15, RT-16.



DECK PLAN
1/8" = 1'-0"



DECK PLACEMENT SEQUENCE
1" = 20'



TYPICAL SECTION
1/2" = 1'-0"

PLACEMENT NOTES

1. THE NUMBERS IN CIRCLES INDICATE POURING SEQUENCE. POURS MAY BE MADE IN THE SAME DAY FOR 1 AND 4 AND FOR POURS 2 AND 3. A WAITING PERIOD OF 72 HOURS IS NECESSARY BETWEEN POURS 3 AND 4.
2. THE FORMWORK AND ITS SUPPORTS, OVER THE FULL WIDTH OF THE STRUCTURAL SLAB FOR STAGE I CONSTRUCTION, SHALL REMAIN IN PLACE UNTIL A MINIMUM OF 48 HOURS HAS ELAPSED AFTER PLACEMENT OF THE SLAB, AFTER WHICH, REMOVAL OF FORMWORK FOR SECTIONS MEETING THE REQUIREMENTS FOR FORM REMOVAL OF SECTION 502, STRUCTURAL CONCRETE, OF THE STANDARD SPECIFICATIONS, MAY PROCEED.

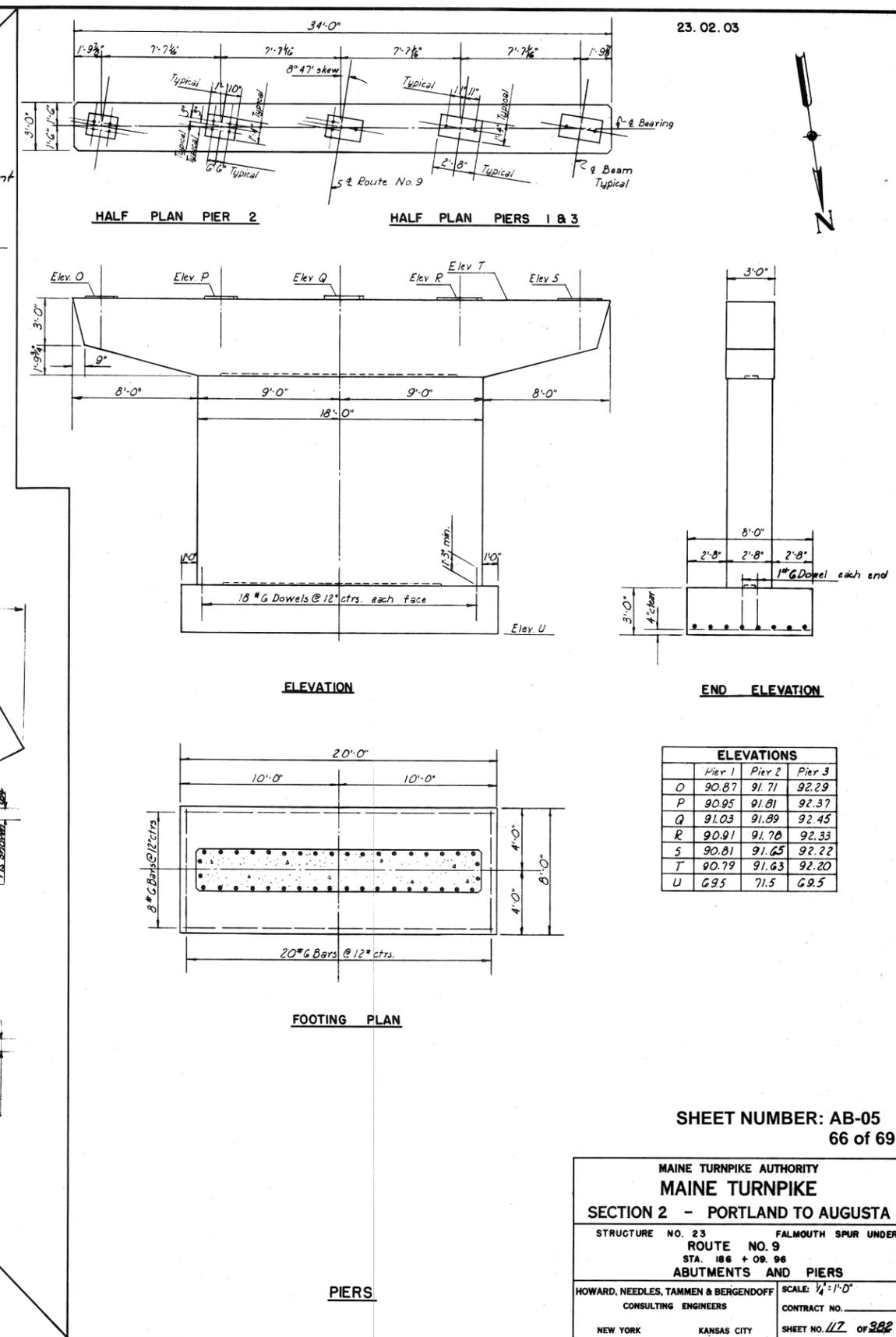
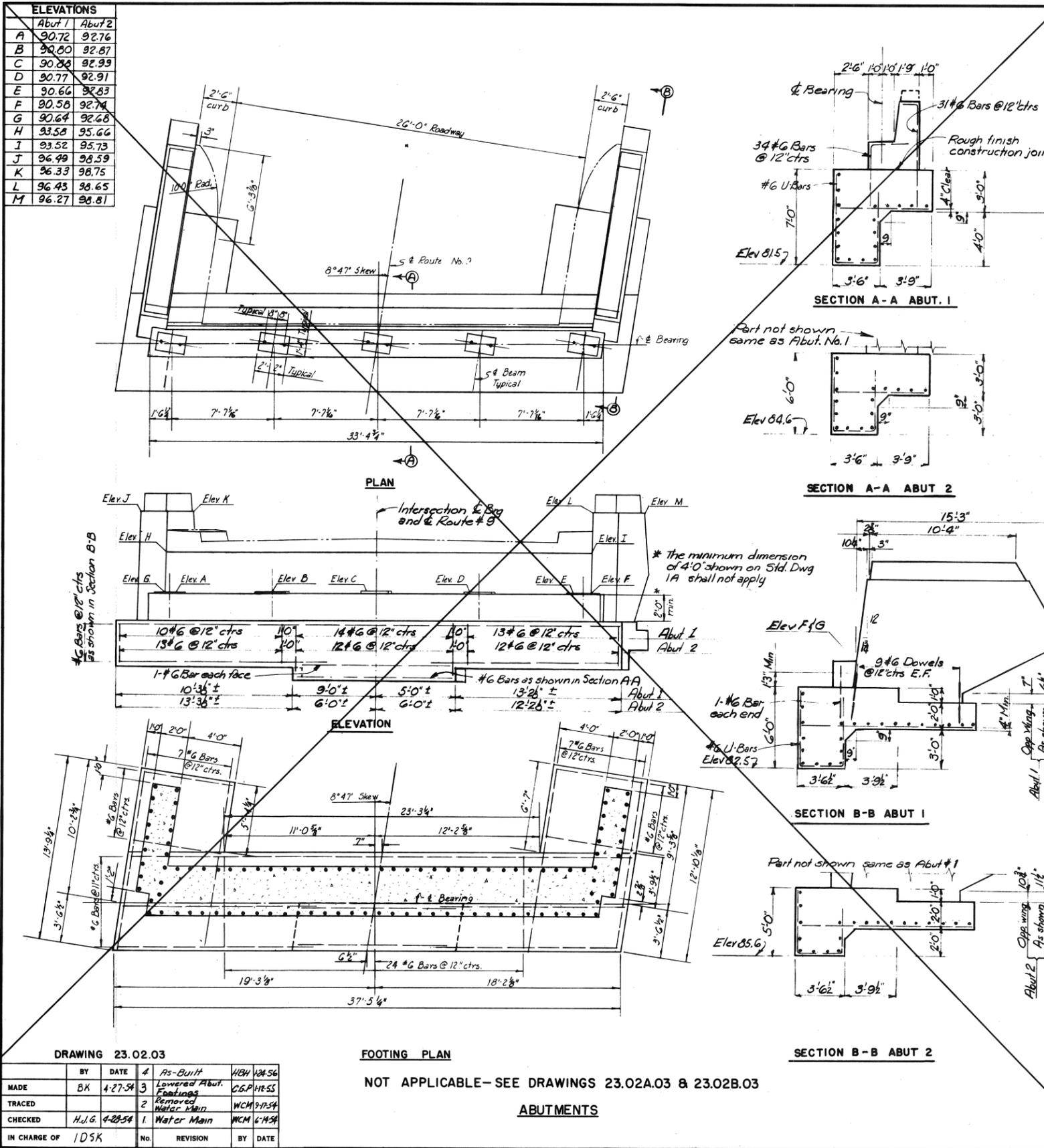
SHEET NUMBER: AB-04
65 of 69

Maine Turnpike Authority		Maine Turnpike	
ROUTE 9 UNDERPASS		DECK PLAN AND TYPICAL SECTION	
			
HOWARD NEEDLES TAMMEN & BERGENDOFF		ARCHITECTS ENGINEERS PLANNERS	
Contract	95.7	Sheet No.	RT-12
			40 of 47

No.	Revision	By:	Date:
		Designed	JMH 2/95
		Drawn	RJT 2/95
		Checked	HNL 2/95
		In charge of:	RAL

ELEVATIONS	
Abut 1	Abut 2
A	90.72 92.76
B	90.80 92.87
C	90.88 92.99
D	90.77 92.91
E	90.66 92.83
F	90.58 92.74
G	90.64 92.68
H	93.58 95.66
I	93.52 95.73
J	96.49 98.59
K	96.33 98.75
L	96.43 98.65
M	96.27 98.81

23.02.03



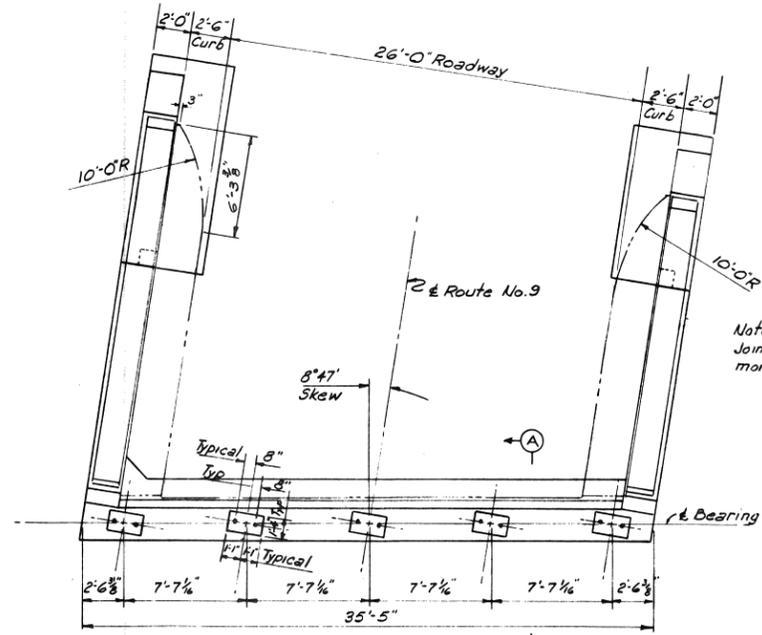
ELEVATIONS			
	Pier 1	Pier 2	Pier 3
O	90.87	91.71	92.29
P	90.95	91.81	92.37
Q	91.03	91.89	92.45
R	90.91	91.78	92.33
S	90.81	91.65	92.22
T	90.79	91.63	92.20
U	69.5	71.5	69.5

DRAWING 23.02.03			
BY	DATE	REVISION	BY DATE
AS-BUILT			
MADE	BK 4-27-54	3 Lowered Abut. Footings	CSP/HRS
TRACED		2 Removed Water Main	WCM 9-17-54
CHECKED	H.J.G. 4-28-54	1 Water Main	WCM 6-14-54
IN CHARGE OF	DSK	No.	REVISION

FOOTING PLAN
 NOT APPLICABLE—SEE DRAWINGS 23.02A.03 & 23.02B.03
 ABUTMENTS

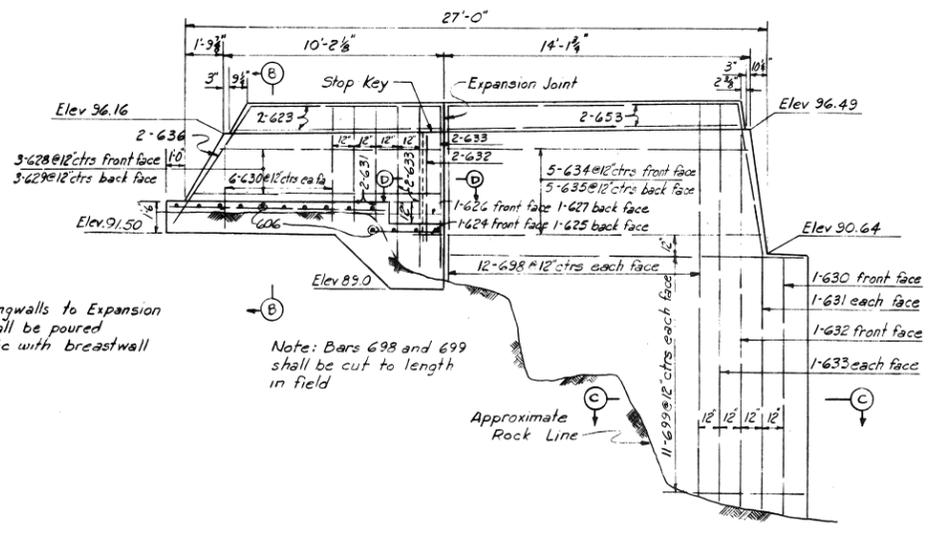
SHEET NUMBER: AB-05
66 of 69

MAINE TURNPIKE AUTHORITY MAINE TURNPIKE	
SECTION 2 - PORTLAND TO AUGUSTA	
STRUCTURE NO. 23	FALMOUTH SPUR UNDER
ROUTE NO. 9	
STA. 186 + 09.96	
ABUTMENTS AND PIERS	
HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS	SCALE: 1/4" = 1'-0" CONTRACT NO.
NEW YORK	KANSAS CITY
	SHEET NO. 112 of 382



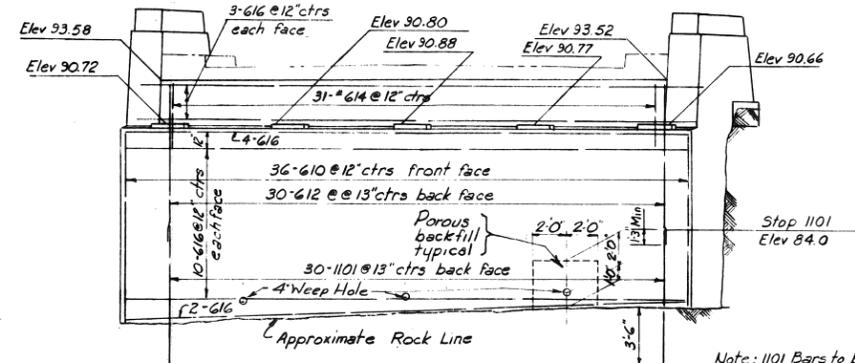
PLAN

Note: Wingwalls to Expansion Joint shall be poured monolithic with breastwall



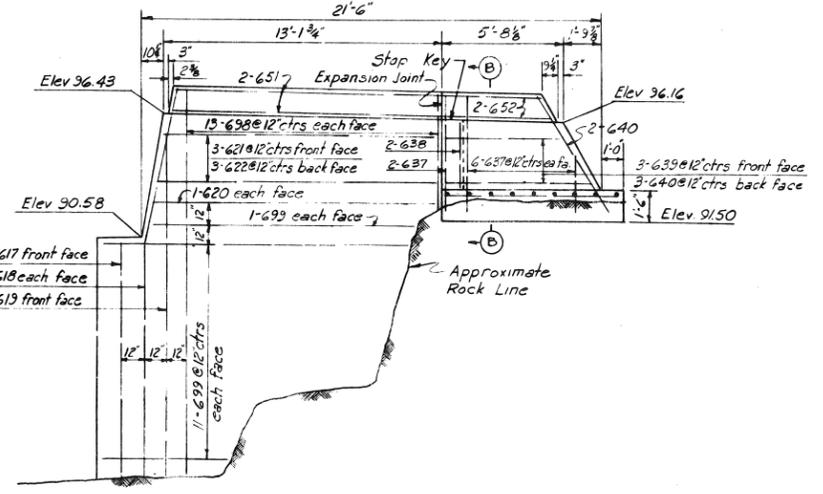
EAST WINGWALL ELEVATION
Scale: 1/4"=1'-0"

Note: Bars 698 and 699 shall be cut to length in field

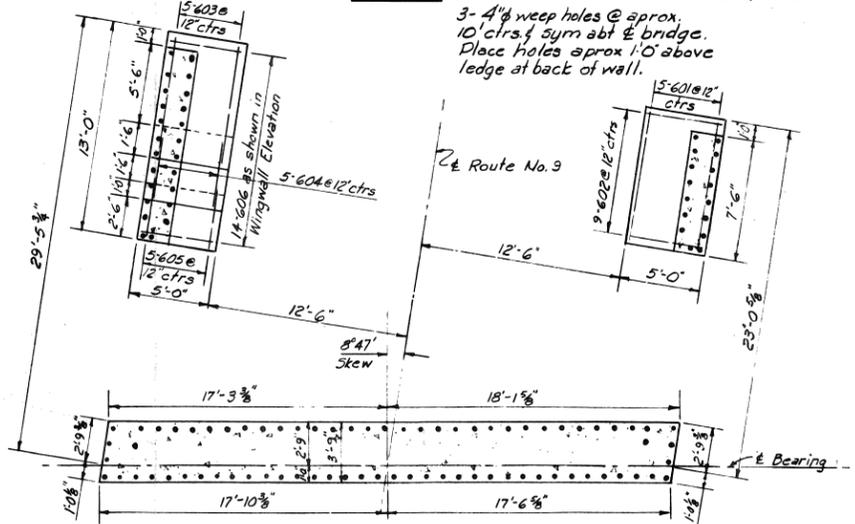


ELEVATION

Note: 1101 Bars to be grouted into 2" dia holes to a depth of 3'-6"

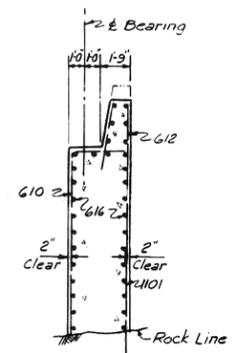


WEST WINGWALL ELEVATION
Scale: 1/4"=1'-0"

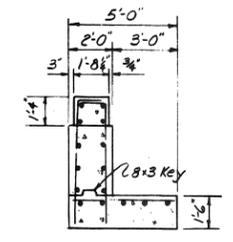


FOOTING PLAN

3- 4" weep holes @ approx. 10' ctrs, sym abt & bridge. Place holes approx 1'-0" above ledge at back of wall.



SECTION A-A



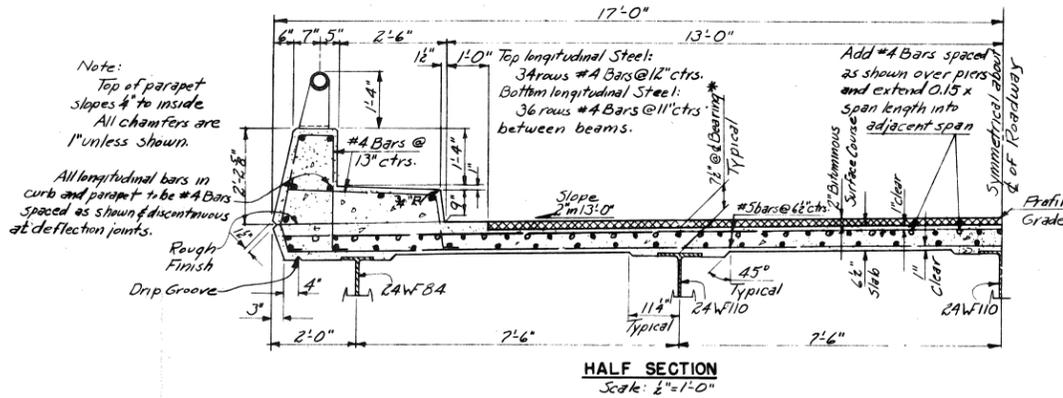
SECTION B-B
Scale: 1/4"=1'-0"

Notes: For Rustication see Standard Drawing No. 1A.
For Sections C-C and D-D see sheet 23.02A.03

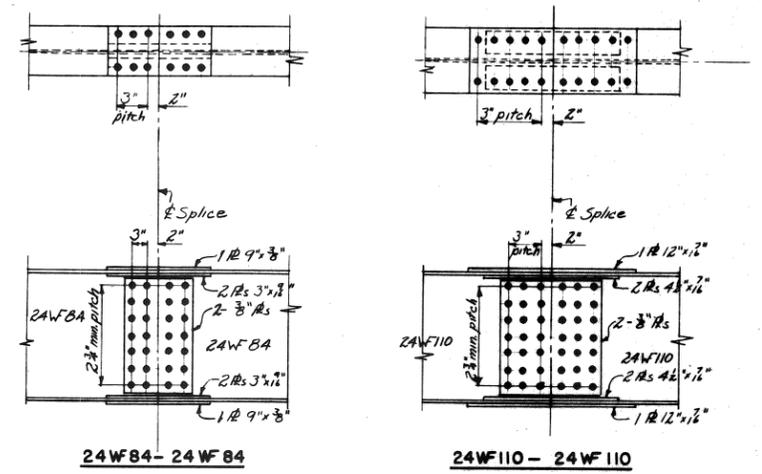
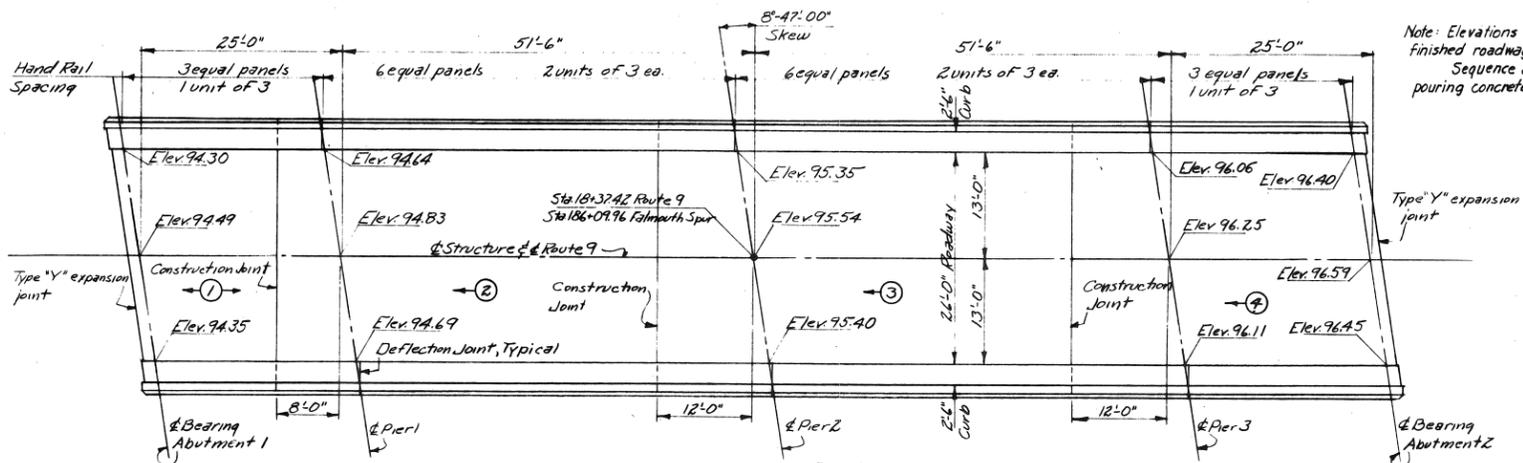
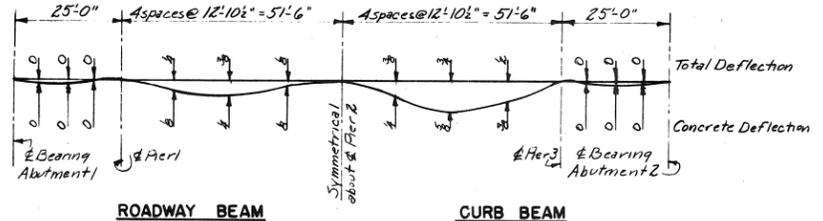
DRAWING 23.02B.03		NO.	REVISION	BY	DATE
	5	Added weep holes	CVA	6/16/95	
	4	Redrawn	WCM	3/31/95	
	3	Lowered Footing	CGP	1/2/95	
	2	Removed Water Main	WCM	9/17/94	
	1	Water Main	WCM	6/14/94	
IN CHARGE OF I.D.S.K.		NO.	REVISION	BY <td>DATE</td>	DATE
		6	As-Built	HBH	12/5/96

SHEET NUMBER: AB-07
68 of 69

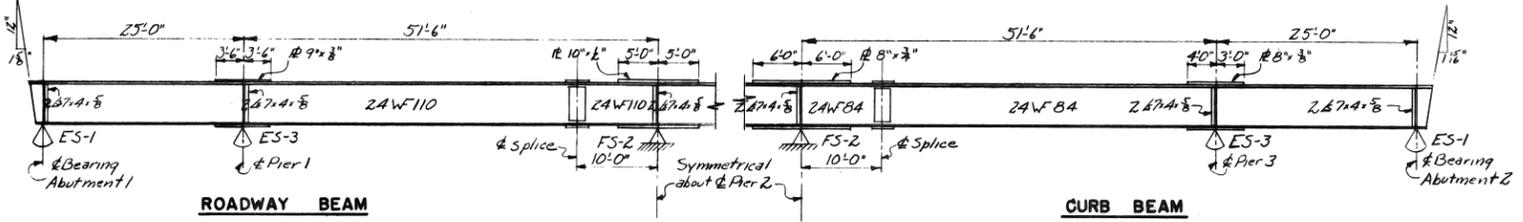
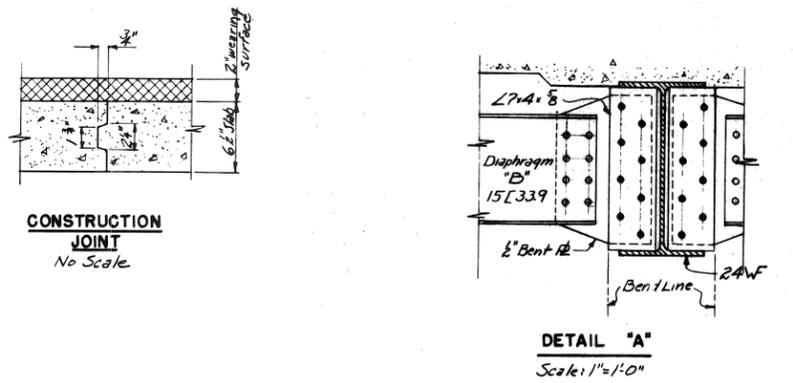
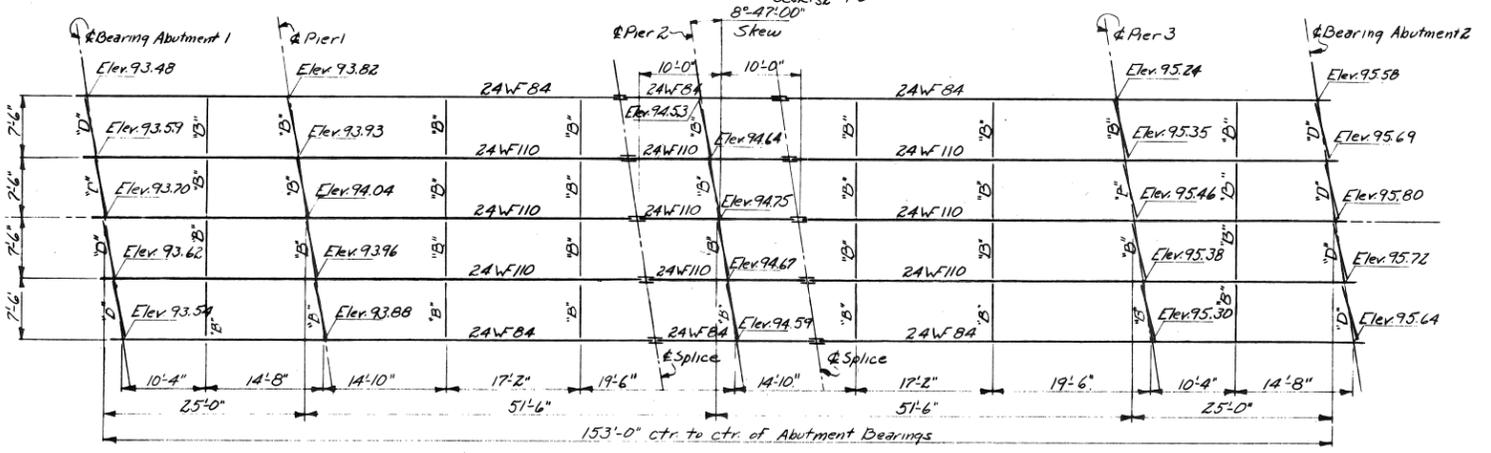
MAINE TURNPIKE AUTHORITY	
MAINE TURNPIKE	
SECTION 2 - PORTLAND TO AUGUSTA	
STRUCTURE NO. 23	FALMOUTH SPUR UNDER
ROUTE NO. 9	
STA. 189 + 09.96	
ABUTMENT I	
HOWARD, NEEDLES, TAMMEN & BERGENDOFF	SCALE: 1/4"=1'-0" except as shown
CONSULTING ENGINEERS	CONTRACT NO.
NEW YORK KANSAS CITY	SHEET NO. 112 OF 392



* The depth of concrete over the tops of beams shall be varied as necessary to insure conformity of final floor, curbs, and parapet walls with desired elevations after deflection under full dead load.



Note: Marks "B" & "D" refer to diaphragms shown on Standard Drawing No. 6, Connection of Diaphragms to beams at piers shall be modified as shown in Detail "A". Elevations are to top of beam flanges.



DRAWING 23.03.03			
BY	DATE	4	As-Built
MADE	R.S.G. 4-27-54	3	Removed Pipe Hangers
TRACED		2	Removed Pipe Hanger Details
CHECKED	H.J.G. 4-28-54	1	Pipe Hanger Details
IN CHARGE OF	J.D.S.K.	No.	REVISION

SHEET NUMBER: AB-08
69 of 69

MAINE TURNPIKE AUTHORITY
MAINE TURNPIKE
SECTION 2 - PORTLAND TO AUGUSTA

STRUCTURE NO. 23 FALMOUTH SPUR UNDER

ROUTE NO. 9
STA. 186+09.96

SUPERSTRUCTURE

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS

SCALE: As Shown
CONTRACT NO. _____
SHEET NO. 120 of 382