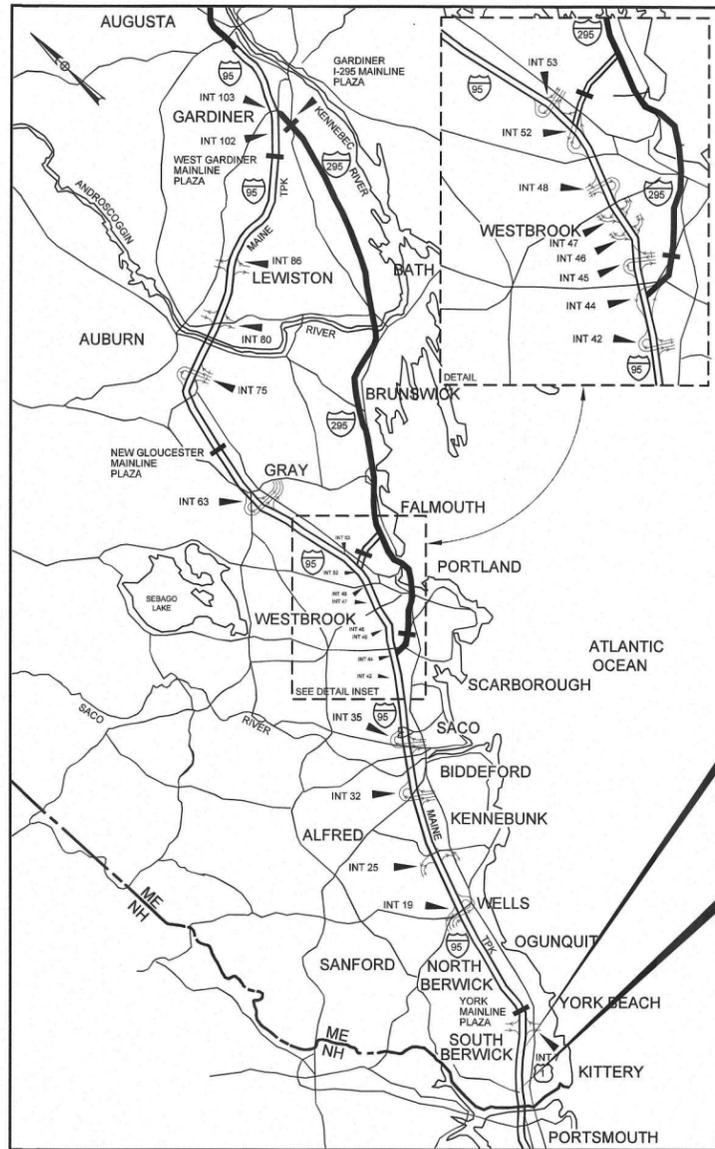


Date: 1/30/2018

Username:

Division: HIGHWAY

Filename: \00\BRIDGE\MSTA\001_Title.dgn



LOCATION MAP

CONTRACT 2018.08
WEARING SURFACE REPAIRS,
YORK RIVER BRIDGE
MILE 5.2

CONTRACT 2018.08
SNOW FENCE INSTALLATION,
WILSON ROAD UNDERPASS
MILE 2.0

CONTRACT 2018.08
BRIDGE REPAIRS,
DENNETT ROAD OVERPASS
MILE 0.6



THE GOLD STAR
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

DANIEL E. WATHEN, CHAIR
ROBERT D. STONE, VICE CHAIR
MICHAEL J. CIANCHETTE, MEMBER
JOHN E. DORITY, MEMBER
ANN R. ROBINSON, MEMBER
THOMAS J. ZUKE, MEMBER
KAREN S. DOYLE, MEMBER EX-OFFICIO

S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2018.08 BRIDGE REPAIRS, DENNETT ROAD OVERPASS (MILE 0.6) SNOW FENCE INSTALLATION, WILSON ROAD UNDERPASS (MILE 2.0) WEARING SURFACE REPAIRS, YORK RIVER BRIDGE (MILE 5.2)

INDEX OF SHEETS	
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1	TITLE SHEET
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3	GENERAL NOTES
4-8	TRAFFIC CONTROL DETAILS
9	DETOUR PLAN - EXIT 1 NB OFF RAMP
10	DETOUR PLAN - EXIT 1 SB ON RAMP
11	MOT PHASE I
12	MOT PHASE II
13	MOT PHASE III
14	MOT PHASE IV
15-16	MOT SIGN SUMMARY
17	GENERAL PLAN
18	TYPICAL SECTIONS
19-20	GUARDRAIL DETAILS
21	LIMIT OF DISTURBANCE
22	DECK PLAN & SECTION
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CONTRACT 2018.08

APPROVED: MAINE TURNPIKE AUTHORITY

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

01/31/18
DATE

Stephen R. Tartre
STEPHEN R. TARTRE, P.E.
DIRECTOR OF ENGINEERING AND BUILDING MAINTENANCE

1/31/18
DATE



Roland A. Lavallee
ROLAND A. LAVALLEE, P.E., PLS
DIRECTOR OF OPERATIONS, SHEETS 39-40

1/30/18
DATE



TYLIN INTERNATIONAL



DANIEL S. MYERS, P.E.
ENGINEER OF RECORD, SHEETS 1-38

Daniel S. Myers

1/30/2018
DATE

Heath E. Cowan
HEATH E. COWAN, P.E.
T.Y. LIN INTERNATIONAL PROJECT MANAGER

1/30/2018
DATE

Date: 1/31/2018

Filename: ... \BRIDGE\WSTA\002_Quantities.dgn

ITEM NO.	ITEM DESCRIPTION	UNIT	DENNETT RD. QUANTITY	WILSON ST. QUANTITY	YORK RIVER BRIDGE	TOTAL QUANTITY
202.121	REMOVING EXISTING CONCRETE (5 CY)	LS	1	-	-	1
202.17	REMOVING EXISTING STRUCTURAL CONCRETE (1CY)	LS	1	-	-	1
202.202	REMOVING PAVEMENT SURFACE	SY	895	-	-	895
202.203	PAVEMENT BUTT JOINTS	SY	30	-	-	30
202.206	REMOVING RUMBLE STRIPS	LF	2350	-	-	2,350
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	CY	25	-	-	25
403.2081	HOT MIX ASPHALT, 12.5MM NOMINAL MAXIMUM SIZE (POLYMER MODIFIED)	TON	74	-	-	74
403.210	HOT MIX ASPHALT, 9.5MM NOMINAL MAXIMUM SIZE	TON	25	-	-	25
403.211	HOT MIX ASPHALT, 9.5 MM NOMINAL MAXIMUM SIZE (SHIMMING)	TON	25	-	-	25
403.213	HOT MIX ASPHALT, 12.5 MM NOMINAL MAXIMUM SIZE (BASE AND INTERMEDIATE BASE COURSE)	TON	8	-	-	8
409.15	BITUMINOUS TACK COAT, APPLIED	GAL	72	-	-	72
502.21	STRUCTURAL CONCRETE ABUTMENTS AND RETAINING WALLS	CY	6	-	-	6
503.14	EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED	LB	1500	-	-	1,500
503.15	EPOXY-COATED REINFORCING STEEL, PLACING	LB	1500	-	-	1,500
504.801	STRUCTURAL STEEL REPAIR	LS	1	-	-	1
506.9103	ZINC-RICH PROTECTIVE COATING SYSTEM	LS	1	-	-	1
507.095	ALUMINUM BRIDGE RAILING - SPLICE MODIFICATION	EA	4	-	-	4
515.202	CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES	SY	770	-	-	770
515.203	BROADCAST SEALANT FOR CONCRETE SURFACES	SY	-	-	8600	8,600
518.10	ABUTMENT REPAIRS	SF	440	-	-	440
518.39	GRANITE CURB JOINT MORTAR AND BEDDING MORTAR REPAIR	LF	20	-	-	20
518.40	EPOXY INJECTION CRACK REPAIR	LF	45	-	150	195
518.41	LONGITUDINAL JOINT REPAIR	LF	-	-	2400	2,400
518.70	REPAIR OF OVERHEAD SURFACES <8 INCHES	SF	275	-	-	275
518.75	FASCIA AND OVERHANG REPAIRS	SF	50	-	-	50
520.232	EXPANSION DEVICE - ASPHALTIC PLUG JOINT	LF	226	-	-	226
520.234	EXPANSION DEVICE - MULTI-DIRECTIONAL STRUCTURAL SEAL	LF	97	-	-	97
520.251	EXPANSION DEVICE - BONDED SILICONE-AND-FOAM HYBRID JOINT SEAL	LF	9	-	-	9
523.5211	BEARING REHABILITATION, ROCKER BEARINGS	EA	21	-	-	21
526.306	TEMPORARY CONCRETE BARRIER, TYPE 1 - SUPPLIED BY AUTHORITY	LS	1	-	-	1
526.351	MEDIAN BARRIER TYPE 1 - PRECAST	LF	60	-	-	60
526.3515	MEDIAN BARRIER TYPE 1 - CAST-IN-PLACE	LF	102	-	-	102
526.361	MEDIAN BARRIER TYPE 1 - PRECAST	EA	2	-	-	2
527.341	WORK ZONE CRASH CUSHIONS - TL-3	UNIT	2	1	-	3
603.159	12" CULVERT PIPE OPTION III	LF	8	-	-	8
603.199	24" CULVERT PIPE OPTION III	LF	6	-	-	6
604.09	CATCH BASIN TYPE B1	EA	2	-	-	2
604.246	CATCH BASIN TYPE F5	EA	2	-	-	2
605.11	12" UNDERDRAIN TYPE C	LF	43	-	-	43

ITEM NO.	ITEM DESCRIPTION	UNIT	DENNETT RD. QUANTITY	WILSON ST. QUANTITY	YORK RIVER BRIDGE	TOTAL QUANTITY
606.1723	BRIDGE TRANSITION - TYPE III (5 CY)	EA	4	-	-	4
606.1724	BRIDGE TRANSITION - TYPE III, MODIFIED (1CY)	EA	2	-	-	2
606.278	TERMINAL END - ANCHORED END	EA	2	-	-	2
606.352	REFLECTORIZED BEAM GUARDRAIL DELINEATOR	EA	155	-	-	155
606.356	UNDERDRAIN DELINEATOR POST	EA	2	-	-	2
606.3605	REMOVE, MODIFY AND RESET, SINGLE RAIL	LF	130	-	-	130
606.3606	REMOVE, MODIFY AND RESET, DOUBLE RAIL	LF	50	-	-	50
606.3621	GUARDRAIL ADJUST, SINGLE RAIL	LF	250	-	-	250
607.431	SNOW FENCE	LF	460	-	-	460
609.191	CONCRETE CURB TYPE 2	LF	72	-	-	72
627.18	12" SOLID WHITE PAVEMENT MARKING LINE	LF	320	-	-	320
627.744	6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	LF	6100	-	-	6,100
627.77	REMOVING PAVEMENT MARKINGS	SF	3300	-	-	3,300
627.78	TEMPORARY PAVEMENT MARKING LINE WHITE OR YELLOW	LF	10600	-	-	10,600
627.812	TEMPORARY RAISED PAVEMENT MARKERS	EA	5400	-	-	5,400
629.05	HAND LABOR , STRAIGHT TIME	HR	-	-	20	20
631.10	AIR COMPRESSOR (INCLUDING OPERATOR)	HR	-	-	20	20
631.11	AIR TOOL (INCLUDING OPERATOR)	HR	-	-	20	20
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	HR	-	-	10	10
652.30	FLASHING ARROW BOARD	EA	3	2	4	9
652.312	TYPE III BARRICADE	EA	10	-	-	10
652.33	DRUM	EA	170	200	230	600
652.34	CONE	EA	100	100	-	200
652.35	CONSTRUCTION SIGNS	SF	1950	1200	770	3,920
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	LS	0.49	0.30	.21	1
652.38	FLAGGERS	HR	230	60	-	290
652.410	PORTABLE - CHANGEABLE MESSAGE SIGN	EA	1	-	2	3
652.45	TRUCK MOUNTED ATTENUATOR	CD	50	-	45	95
652.451	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN	CD	50	20	45	115
659.10	MOBILIZATION	LS	0.64	0.07	0.29	1

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	BLT	1/2018	Checked	DSM	1/2018
Drawn	BLT	1/2018	In Charge of	DSM	1/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS

QUANTITIES

SHEET NUMBER: QT-01
2 OF 40

CONTRACT: 2018.08

Date: 1/31/2018

Filename: ... \BRIDGE\WSTA\003_Gen_Notes.dgn

SPECIFICATIONS:

DESIGN

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION WITH INTERIMS THROUGH 2016.

CONSTRUCTION

STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS NOVEMBER, 2014

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, NOVEMBER 2014, WITH LATEST REVISIONS

AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, THIRD EDITION WITH 2016 INTERIMS

MATERIALS:

CONCRETE

END POSTS, MEDIAN BARRIER, AND MEDIAN TRANSITION BARRIERS SHALL BE CLASS AAA

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

REINFORCING STEEL

AASHTO M31, GRADE 60 EPOXY-COATED.

BASIC DESIGN STRESSES:

CONCRETE

CLASS AAA - $f'_c = 4500$ P.S.I.

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

REINFORCING STEEL

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

GENERAL NOTES:

1. THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF THE WORK.
2. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD DETAILS, HIGHWAYS AND BRIDGES, LATEST REVISION AND MDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS.
3. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
4. THE PROPOSED ELEVATIONS ARE BASED ON THE NAVD 88 DATUM. THE AS-BUILT PLANS ARE BASED ON NGVD 29 DATUM.
5. FOR ADDITIONAL DETAILS REFERENCED OR NOT SHOWN IN THESE DRAWINGS, SEE THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, HIGHWAYS AND BRIDGES, NOVEMBER 2014 WITH UPDATES.
6. 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.
7. REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" MIN., UNLESS OTHERWISE NOTED.
8. CHAMFER ALL EXPOSED CONCRETE EDGES $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.
9. ALL PROPOSED CONCRETE CURB FACES AND INSIDE AND TOP FACES OF THE ENDOPOSTS SHALL RECEIVE A RUBBED FINISH PRIOR TO THE APPLICATION OF THE CLEAR PROTECTIVE COATING FOR CONCRETE SURFACE.
10. SHIELDING REQUIRED DURING CONSTRUCTION SHALL NOT PROJECT BELOW THE BOTTOM FLANGES OF GIRDERS.
11. 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 STRUCTURES CONTAIN LEAD BASED PAINT. THE CONTRACTOR SHALL INSTITUTE EVERY PRECAUTION WHEN WORKING WITH MATERIALS COATED WITH LEAD PAINT.
12. WHERE DRILLING AND ANCHORING OF REINFORCING STEEL IS REQUIRED, THE CONTRACTOR SHALL USE A MATERIAL LISTED ON THE MAINE DOT PREQUALIFIED LIST OF CHEMICAL ANCHORING MATERIALS. THE DEPTH OF EMBEDMENT SHALL BE SUFFICIENT TO DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR, BUT SHALL BE NO LESS THAN THE MINIMUM DEPTH OF EMBEDMENT WHEN SPECIFIED. WHERE MINIMUM EMBEDMENT DEPTH HAS NOT BEEN SPECIFIED, BAR LENGTHS HAVE BEEN DEVELOPED BASED ON AN ASSUMED EMBEDMENT DEPTH OF 9" FOR #5 BARS AND 11" FOR #6 BARS. THE CONTRACTOR SHALL VERIFY THE REQUIRED DEPTH OF EMBEDMENT AND ADJUST THE REQUIRED BAR LENGTHS AS REQUIRED.
13. PAYMENT FOR DRILLING AND ANCHORING OF REINFORCING STEEL IS INCIDENTAL TO ITEM 503.15, EPOXY-COATED REINFORCING STEEL, PLACING.
14. A BEAD OF HOT-APPLIED RUBBERIZED ASPHALT SEALER SHALL BE APPLIED ALONG CURB LINES AFTER INSTALLATION OF BASE COURSE AND ALONG ALL SURFACE PAVEMENT JOINTS. PAYMENT SHALL NOT BE MADE DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.

UTILITY:

1. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN LOCATIONS AND EXCAVATIONS LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATING WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THAT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS.
2. THE AUTHORITY AS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL SIGN LOCATIONS AND/OR ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT THE ADDED MARKINGS COSTS FROM THE CONTRACTOR'S PAYMENTS.

CONCRETE REPAIR PROCEDURAL NOTES:

1. CONCRETE REPAIRS, INCLUDING THE ASSOCIATED REMOVALS, WILL BE PAID UNDER 518 ITEMS.
2. ANY REINFORCING STEEL REQUIRED TO REPLACE DETERIORATED EXISTING REINFORCEMENT SHALL BE EPOXY COATED AND WILL BE PAID FOR UNDER ITEM 503.14, "EPOXY-COATED REINFORCING STEEL, FABRICATED AND DELIVERED" AND ITEM 503.15, "EPOXY-COATED REINFORCING STEEL, PLACING."

REMOVAL PROCEDURE:

1. CONTRACTOR SHALL REMOVE TECTYL COATING WHERE PRESENT PRIOR TO WORK. PAYMENT SHALL BE INCIDENTAL TO THE SPECIFIED 518 ITEMS.
2. 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.
3. PERFORM 1 INCH DEEP SAWCUTS ALONG LIMITS OF REMOVAL.
4. CHIP CONCRETE TO DEPTH REQUIRED PER SPECIFICATIONS.

CONCRETE SURFACE PATCH/REPAIR PROCEDURE:

1. PREPARE AND PATCH REPAIR AREAS WITH CLASS AAA - MODIFIED CONCRETE. SEE SPECIFICATIONS FOR MATERIAL, PREPARATION, PLACEMENT, AND CURING REQUIREMENTS.

GENERAL FINISHING:

1. ALL EXPOSED CONCRETE SURFACES SHALL BE COATED WITH A PROTECTIVE COATING SUITABLE FOR CONCRETE SURFACES AFTER PATCHING IS COMPLETE AND PATCH MATERIALS HAVE CURED. PIGMENTED PROTECTIVE COATING SHALL BE APPLIED TO ALL ABUTMENT FACES, ALL WINGWALL FACES, AND ALL END POST OUTSIDE FACES. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL CONCRETE CURB FACES, ALL FASCIAS AND FASCIA OVERHANGS, AND ALL END POST INSIDE AND TOP FACES.

EPOXY INJECTION CRACK REPAIR:

1. 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.
2. 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.
3. WHEN THE EPOXY ADHESIVE SEAL HAS CURED, INJECT A HIGH-MODULUS, LOW-VISCOSITY EPOXY SUCH AS SIKADUR 35, SIKADUR 55, OR APPROVED EQUAL.

LIST OF ABBREVIATIONS

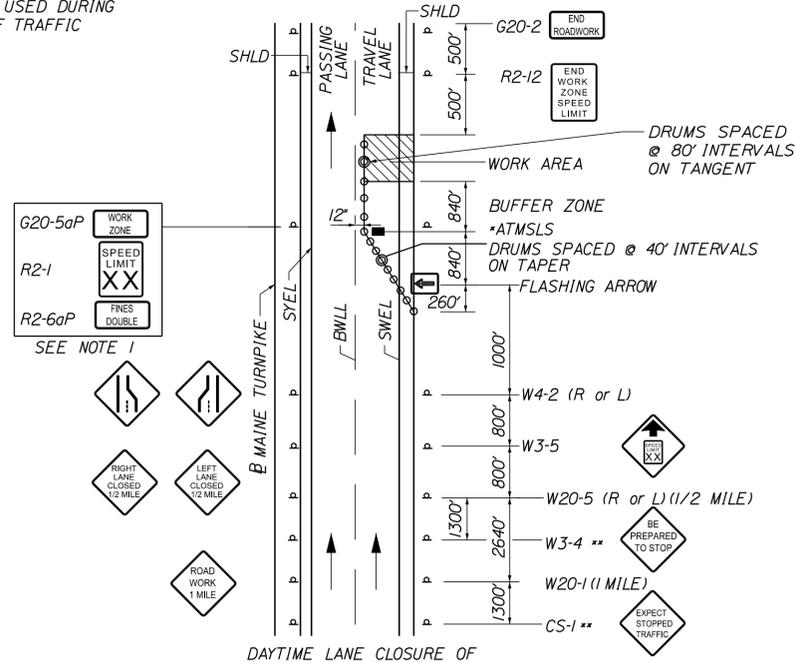
ABUT.	ABUTMENT
ADDL.	ADDITIONAL
ASCG.	AGGREGATE SUBBASE COURSE GRAVEL
ALT.	ALTERNATE
APPROX.	APPROXIMATE
BOT.	BOTTOM
BRG.	BEARING
CL.	CLEAR
CL.	CENTERLINE
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
DEMO.	DEMOLITION
DIA.	DIAMETER
DIAPH.	DIAPHRAGM
EA.	EACH
EB	EASTBOUND
E.F.	EACH FACE
EL.	ELEVATION
EQ.	EQUAL
EXIST.	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
PL	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

Scale: NOT TO SCALE		Designed by: TYLIN INTERNATIONAL		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		BRIDGE REPAIRS DENNETT ROAD OVERPASS GENERAL NOTES																			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Heath Cowan		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">By</td> <td style="width: 5%;">Date</td> <td style="width: 5%;">Checked</td> <td style="width: 5%;">By</td> <td style="width: 5%;">Date</td> </tr> <tr> <td>Designed</td> <td>DSM</td> <td>10/2017</td> <td>NLB</td> <td>10/2017</td> </tr> <tr> <td>Drawn</td> <td>DSM</td> <td>10/2017</td> <td>In Charge of</td> <td>DSM</td> <td>1/2018</td> </tr> </table>		By	Date	Checked	By	Date	Designed	DSM	10/2017	NLB	10/2017	Drawn	DSM	10/2017	In Charge of	DSM	1/2018	 MTA PROJECT MANAGER: Ralph C. Norwood, IV		CONTRACT: 2018.08	SHEET NUMBER: GN-01 3 OF 40
By	Date	Checked	By	Date																							
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Date: 1/31/2018

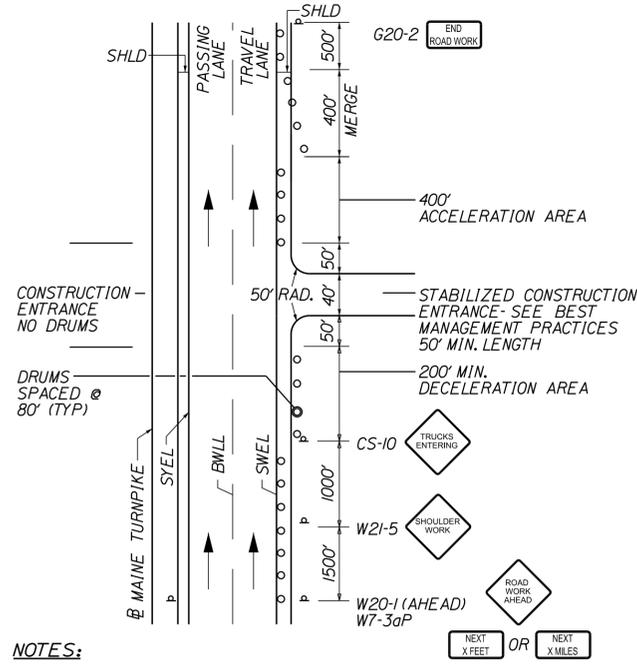
* AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN (ATMSLS)

** SIGN SHALL BE USED DURING STOPPAGES OF TRAFFIC



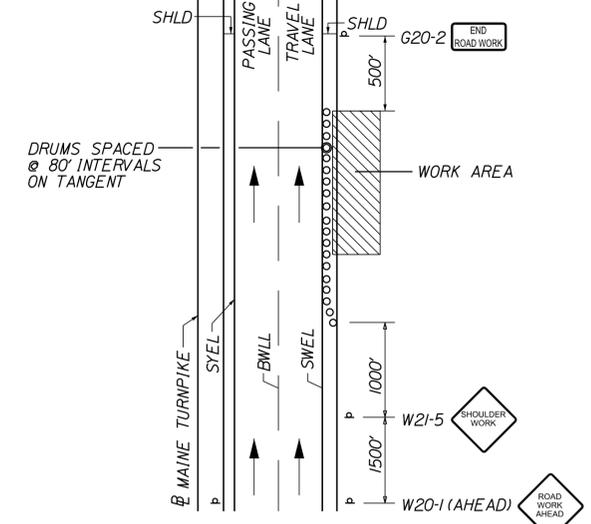
NOTES:
 1. FOR EASEL SET UP ONLY, THIS SIGN IS NOT BRACKETED. ONE SIGN ASSEMBLY IS PLACED AT THE END OF THE TAPER.

SINGLE LANE CLOSURE- SIGNS ON EASELS



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



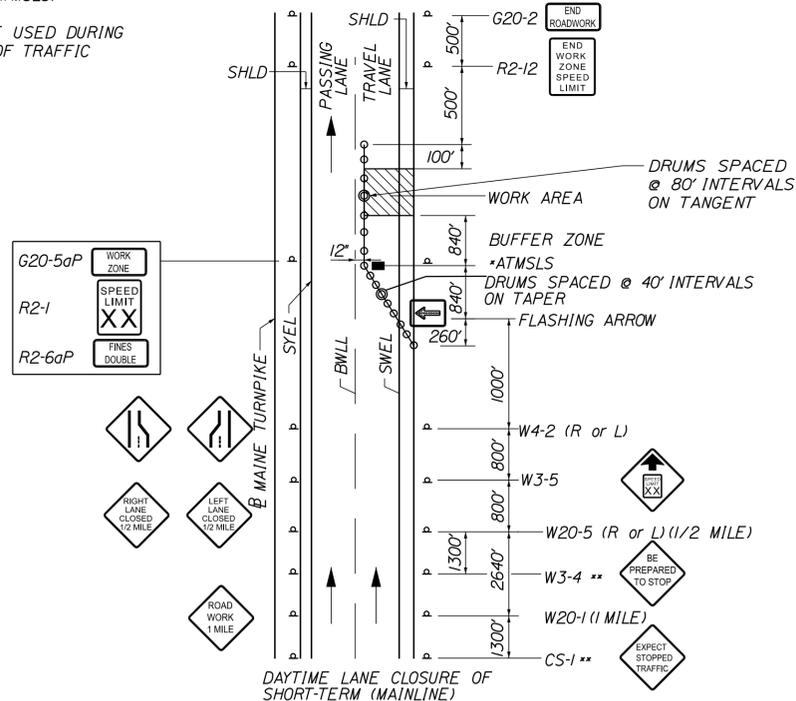
SHOULDER WORK OF SHORT-TERM (MAINLINE)

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

SHOULDER WORK

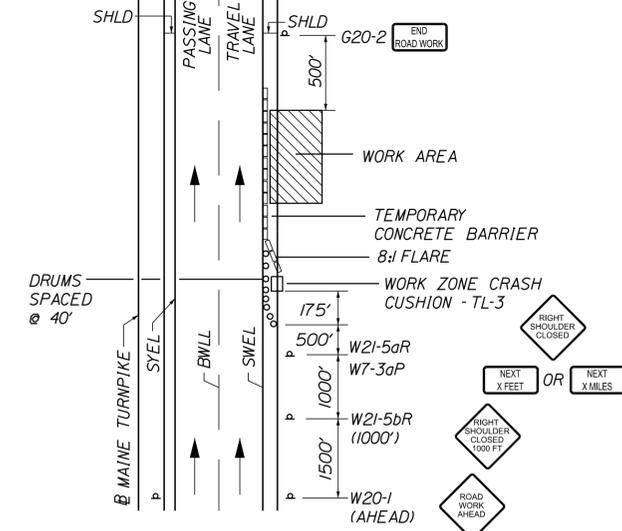
* AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN (ATMSLS)

** SIGN SHALL BE USED DURING STOPPAGES OF TRAFFIC



NOTES:
 FOR POST MOUNTED SIGN SETUP, UNCOVER SIGNS ADJACENT TO OPEN LANE FOR SHORT TERM LANE CLOSURE (LESS THAN 24 HRS); UNCOVER BOTH SIGNS FOR PERMANENT LANE CLOSURE (GREATER THAN 24 HRS)

SINGLE LANE CLOSURE- POST MOUNTED SIGN SETUP



SHOULDER CLOSURE (MAINLINE)

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

SHOULDER CLOSURE

GENERAL MAINTENANCE OF TRAFFIC NOTES:

- ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION. NOTE THERE IS A 2009 EDITION OF MUTCD.
- ALL SPEED LIMIT, STOP, AND YIELD SIGNS ARE TO BE MOUNTED 5 FEET ABOVE THE PAVEMENT SURFACE.
- 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.

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

Filename: ...XXX_Traffic_Control_Details_1.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	JRH	8/2017	Checked	KSD	9/2017
Drawn	JRH	8/2017	In Charge of	DSM	1/2018

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 TEL: (207) 781-4721
 FAX: (207) 781-4753

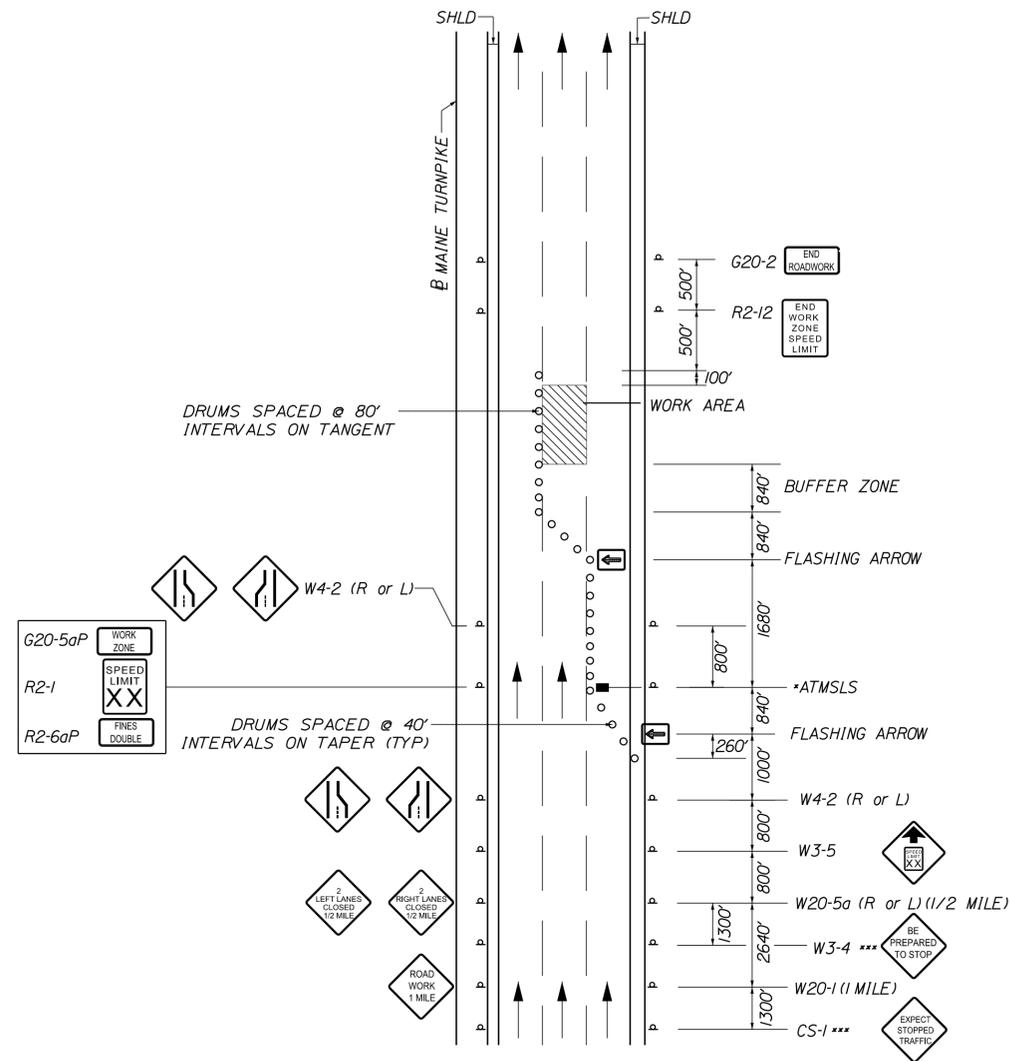


THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 TRAFFIC CONTROL DETAILS
 SHEET 1 OF 5

SHEET NUMBER: MT-01
 CONTRACT: 2018.08
 4 OF 40

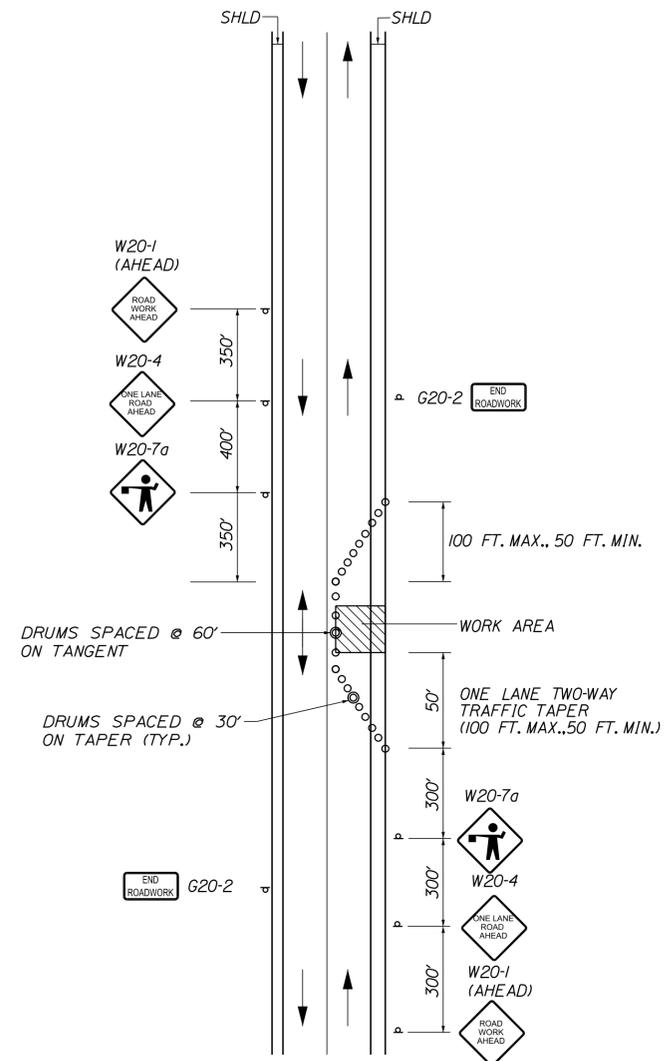


* AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN (ATMSLS)
 ** SIGNS ONLY USED WHEN RUMBLE STRIPS ARE USED

DOUBLE LANE CLOSURE

NOTES:

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



LOCAL ROAD SINGLE LANE CLOSURE

NOTES:

1. ROAD WORK AHEAD AND 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.

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	JRH	8/2017	Checked	KSD	9/2017
Drawn	JRH	8/2017	In Charge of	DSM	1/2018

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**THE GOLD STAR
 MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 TRAFFIC CONTROL DETAILS
 SHEET 2 OF 5

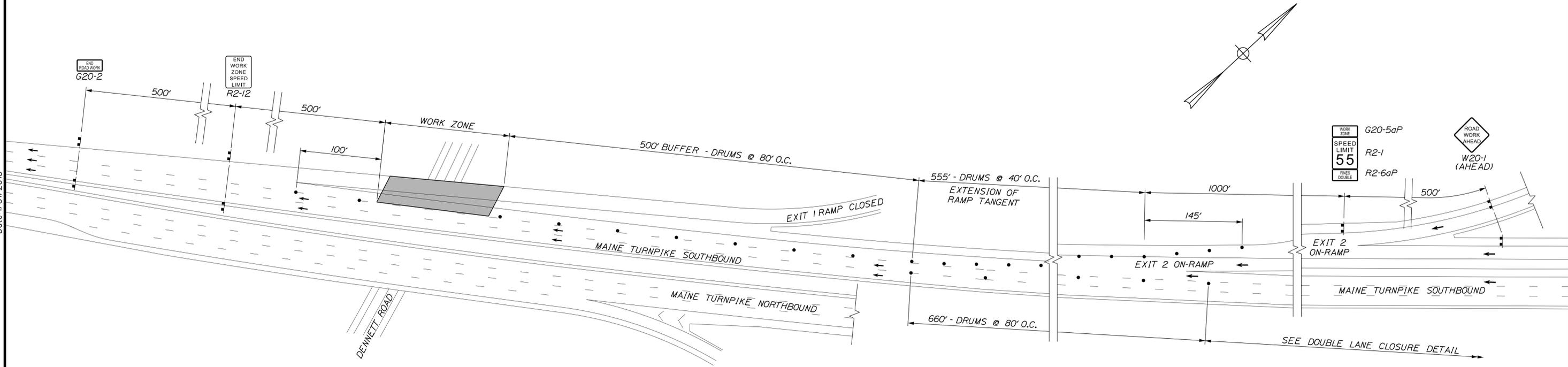
CONTRACT: 2018.08

SHEET NUMBER: MT-02

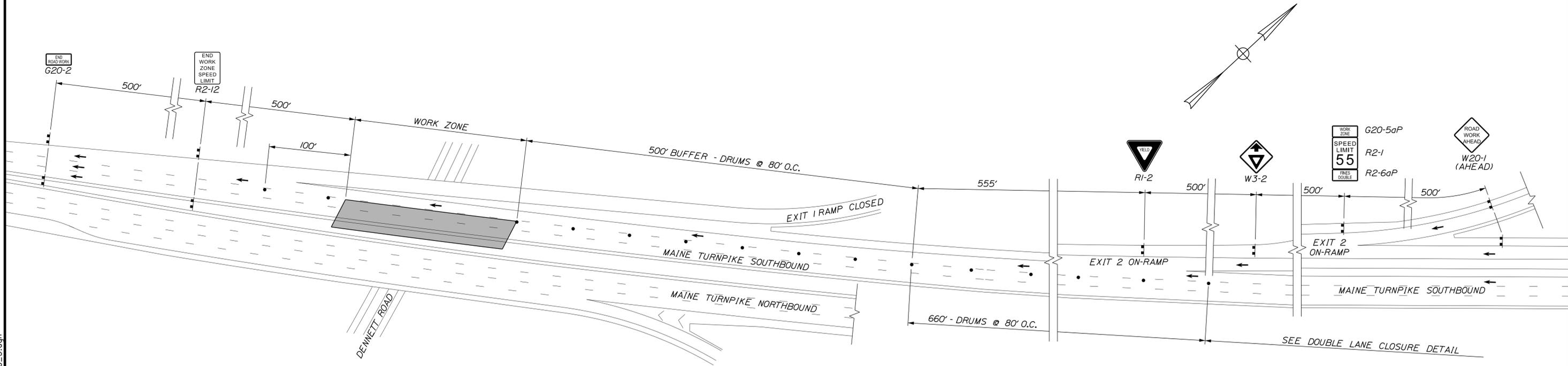
5 OF 40

Date: 1/31/2018

Filename: ...XXX_Traffic_Control_Details_3.dgn



DENNETT ROAD WORK ZONE
RIGHT LANE CLOSURES - SOUTHBOUND



DENNETT ROAD WORK ZONE
LEFT LANE CLOSURES - SOUTHBOUND

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	1/2018
Drawn	TSK	1/2018	In Charge of	DSM	1/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

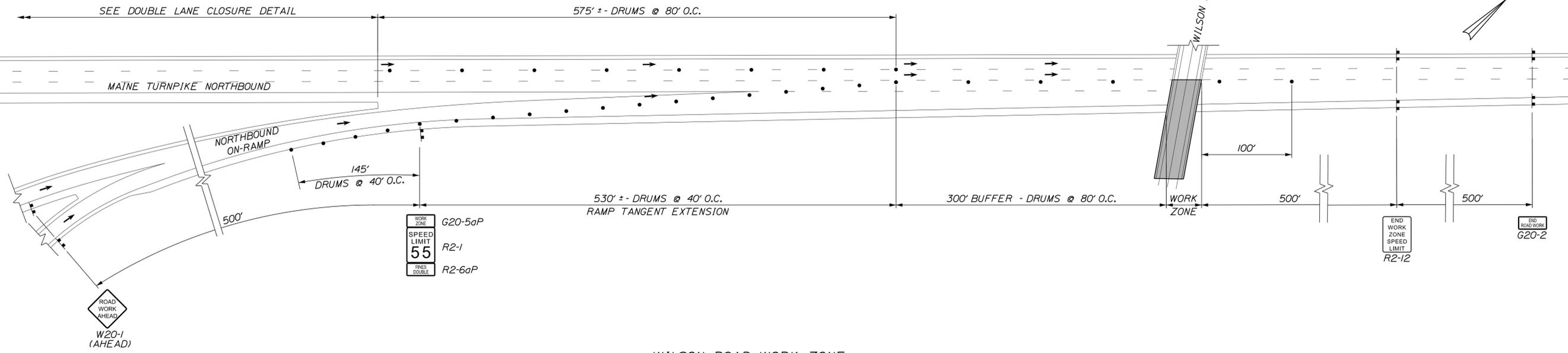
MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 TRAFFIC CONTROL DETAILS
 SHEET 3 OF 5

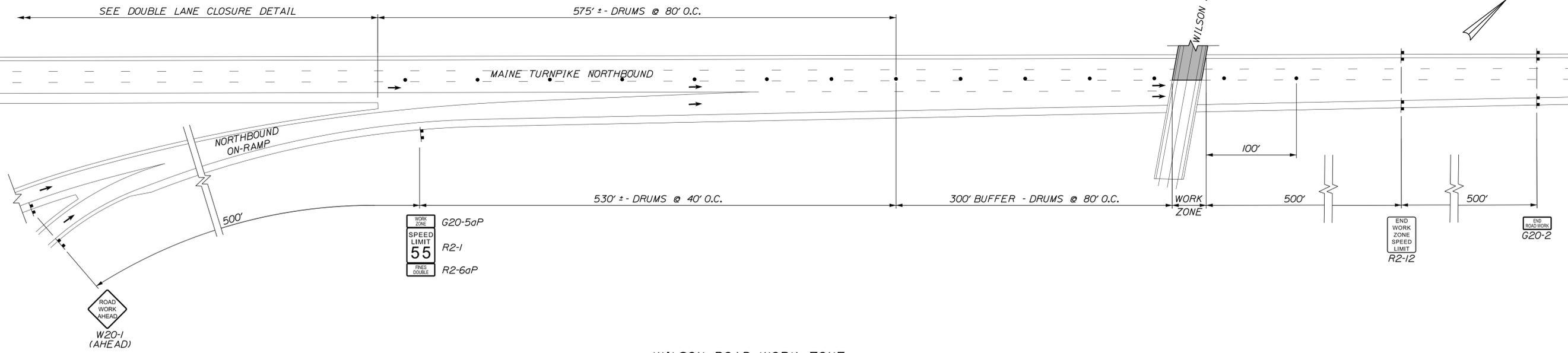
SHEET NUMBER: MT-03
 CONTRACT: 2018.08
 6 OF 40

Date: 1/31/2018

Filename: ...XXX_Traffic_Control_Details_4.dgn



WILSON ROAD WORK ZONE
RIGHT LANE CLOSURES - NORTHBOUND



WILSON ROAD WORK ZONE
LEFT LANE CLOSURES - NORTHBOUND

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

	By	Date		By	Date
Designed	JRH	1/2018	Checked	JRH	1/2018
Drawn	TSK	1/2018	In Charge of	DSM	1/2018

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THE GOLD STAR MEMORIAL HIGHWAY

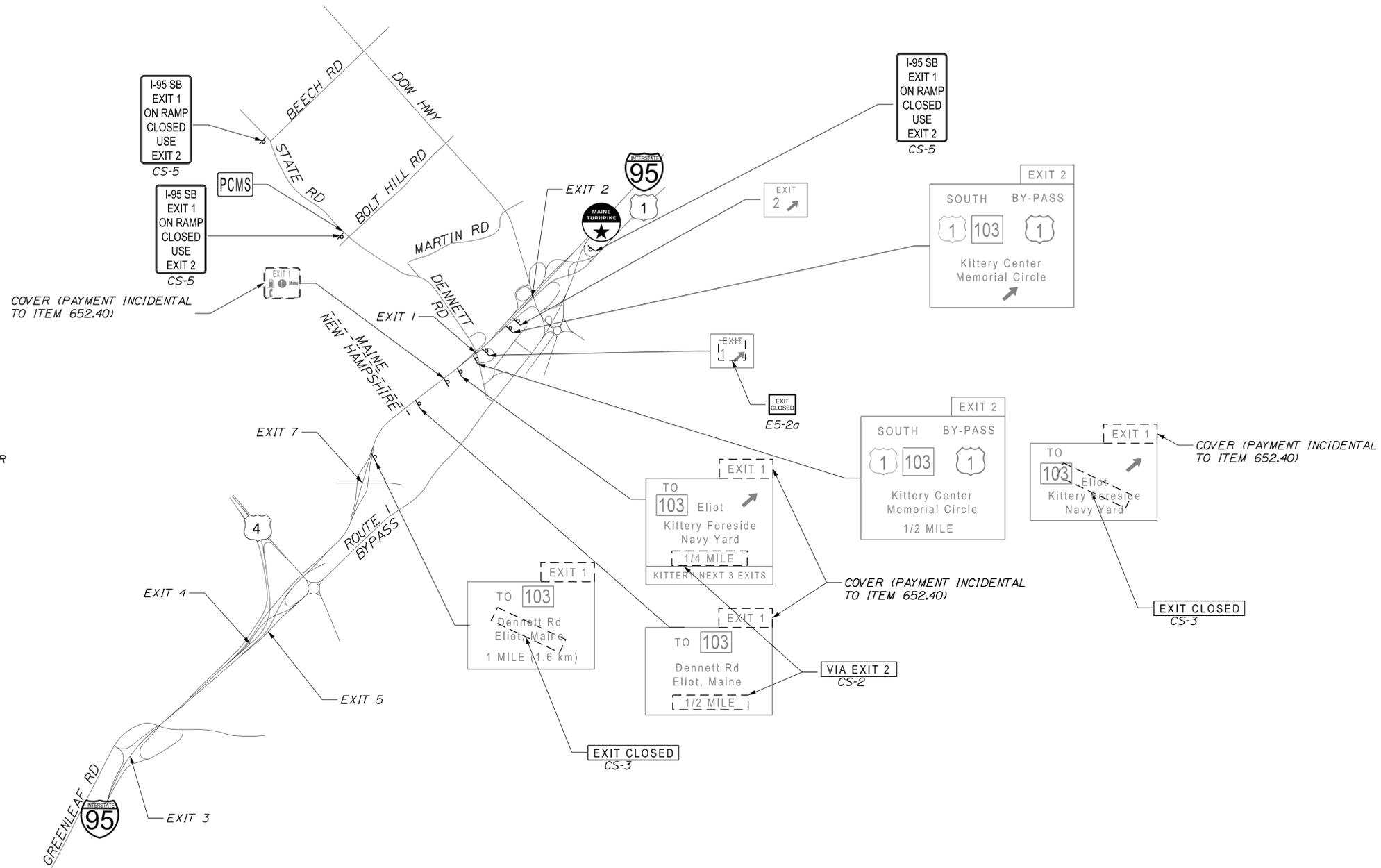
MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
TRAFFIC CONTROL DETAILS
SHEET 4 OF 5

SHEET NUMBER: MT-04
CONTRACT: 2018.08
7 OF 40

Date: 1/31/2018

Filename: ...XXX_Traffic_Control_Details_5.dgn



PCMS MESSAGES:
PCMS

I-95 SB RAMP CLOSED SCREEN #1
XXIXX TO XXIXX SCREEN #2 (WEEK PRIOR TO CLOSURE)

GENERAL MAINTENANCE OF TRAFFIC NOTES:
1. ALL TEMPORARY LANE CLOSURES SHALL BE COORDINATED WITH NHDOT AND NH STATE POLICE.

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:
TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

	By	Date		By	Date
Designed	ARG	10/2017	Checked	JRH	10/2017
Drawn	ARG	10/2017	In Charge of	DSM	1/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
TRAFFIC CONTROL DETAILS
SHEET 5 OF 5

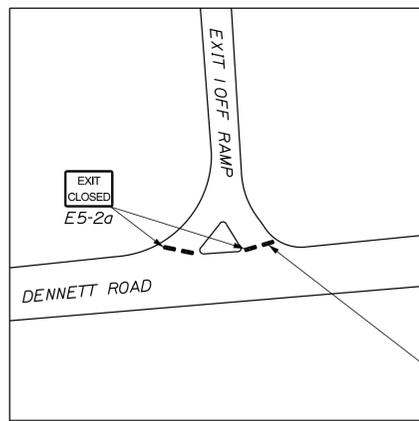
CONTRACT: 2018.08

SHEET NUMBER: MT-05

8 OF 40

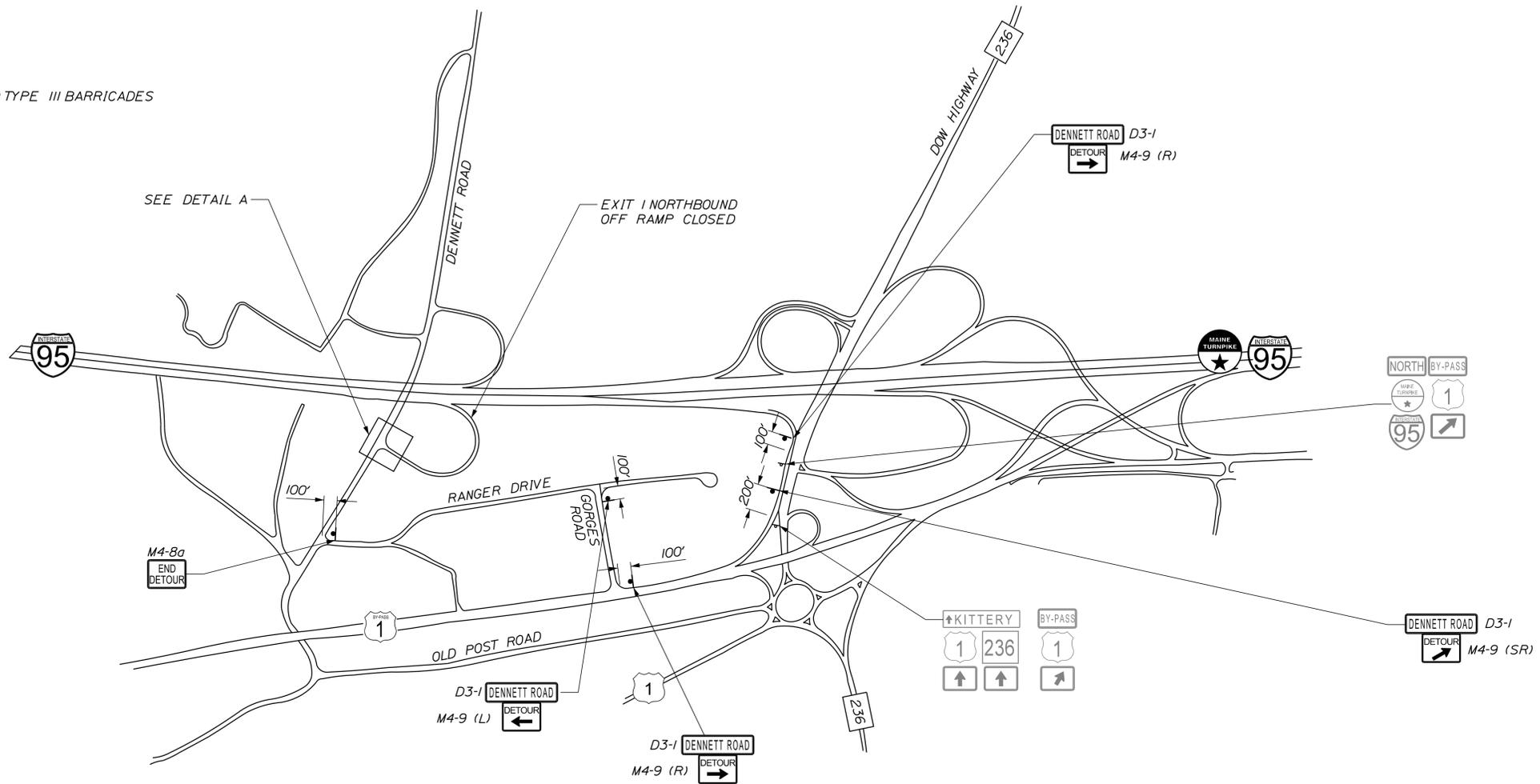
Date: 1/31/2018

Filename: ... \HIGHWAY\MST\LOCAL-DET-001.dgn



DETAIL A

PLACE (4) TYPE III BARRICADES



NOTES:
1. FOR ADDITIONAL SIGNING SEE TRAFFIC CONTROL DETAILS SHEETS AND PHASING PLANS.

DETOUR ROUTE TO DENNETT RD DURING EXIT 1 NB RAMP CLOSURE

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

	By	Date		By	Date
Designed	ARG	10/2017	Checked	JRH	10/2017
Drawn	ARG	10/2017	In Charge of	DSM	1/2018

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THE GOLD STAR MEMORIAL HIGHWAY

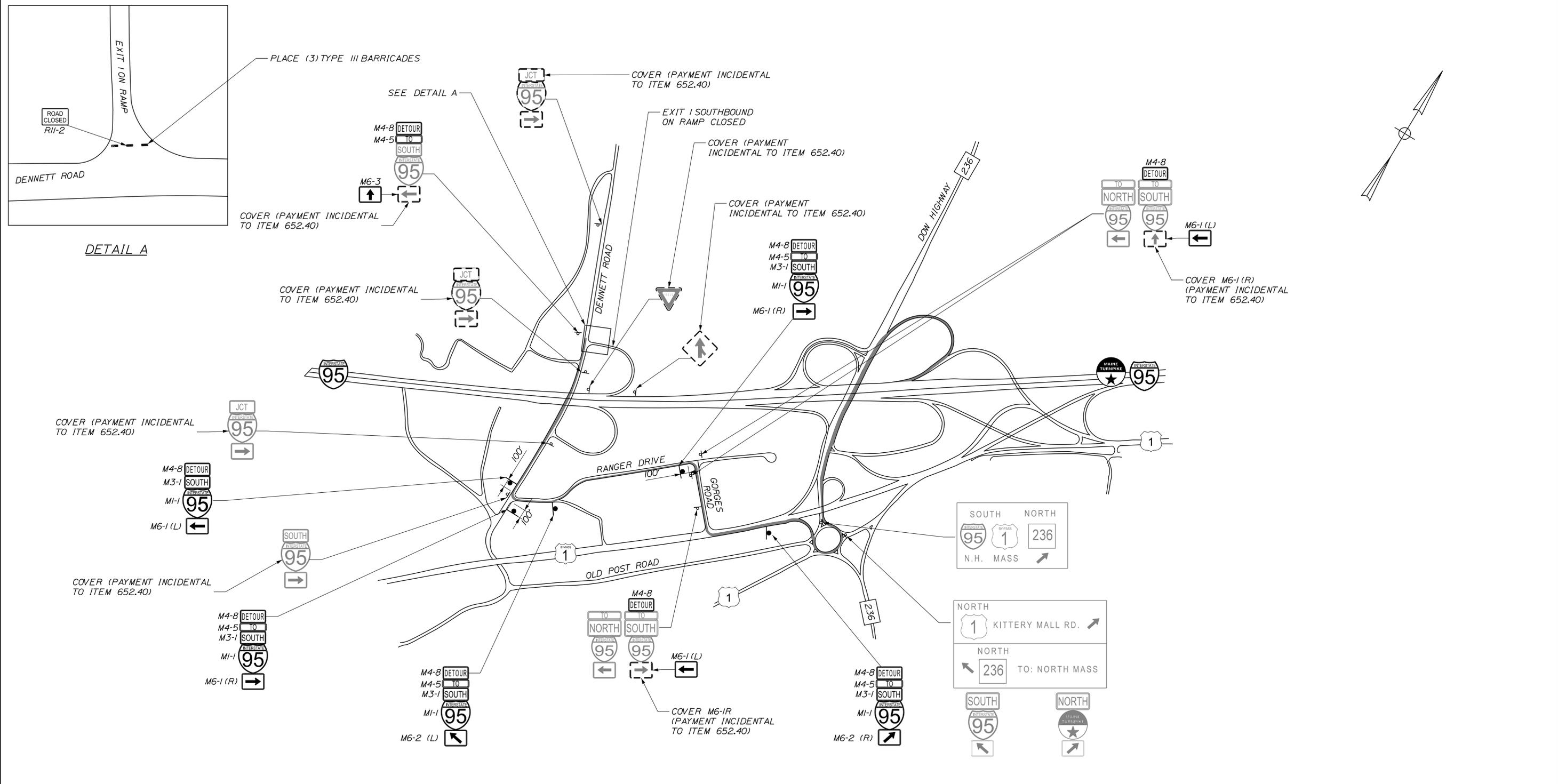
MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
DETOUR PLAN
EXIT 1 NORTHBOUND OFF RAMP

SHEET NUMBER: MT-06
CONTRACT: 2018.08
9 OF 40

Date: 1/31/2018

Filename: ... \HIGHWAY\MST\LOCAL-DET-002.dgn



NOTES:
1. FOR ADDITIONAL SIGNING SEE TRAFFIC CONTROL DETAILS SHEETS AND PHASING PLANS.

DETOUR ROUTE TO I-95 SB DURING EXIT 1 SB RAMP CLOSURE

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by: **TYLIN INTERNATIONAL**

CONSULTANT PROJECT MANAGER: Heath Cowan

	By	Date	By	Date	
Designed	ARG	10/2017	Checked	JRH	10/2017
Drawn	ARG	10/2017	In Charge of	DSM	1/2018

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MAINE TURNPIKE

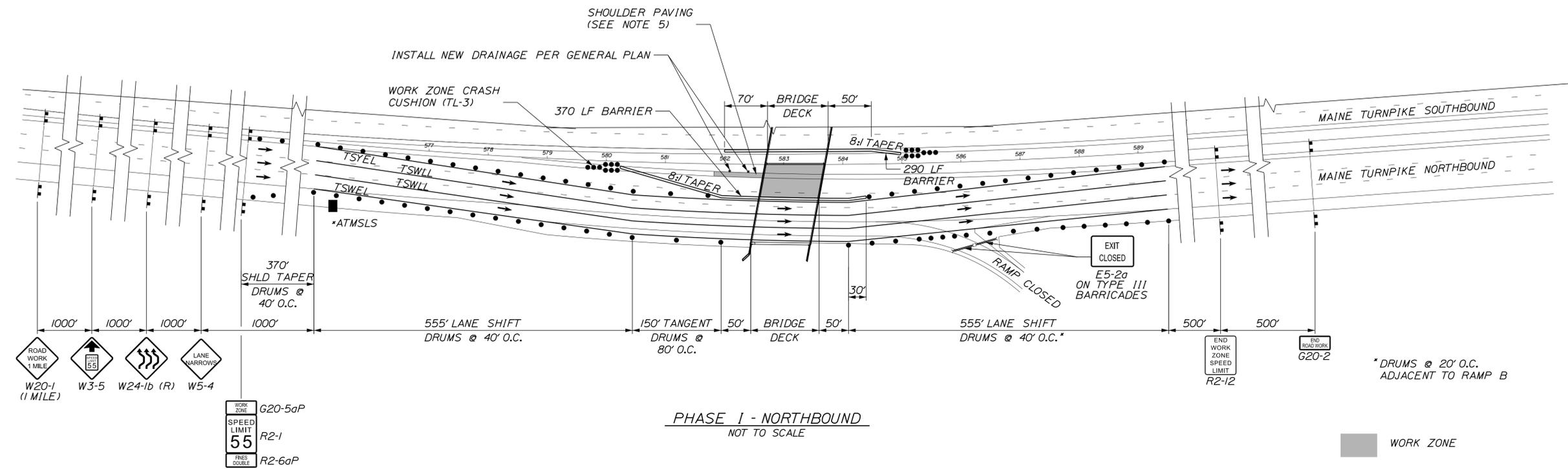
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 DETOUR PLAN
 EXIT 1 SOUTHBOUND ON RAMP

SHEET NUMBER: MT-07
 CONTRACT: 2018.08
 10 OF 40

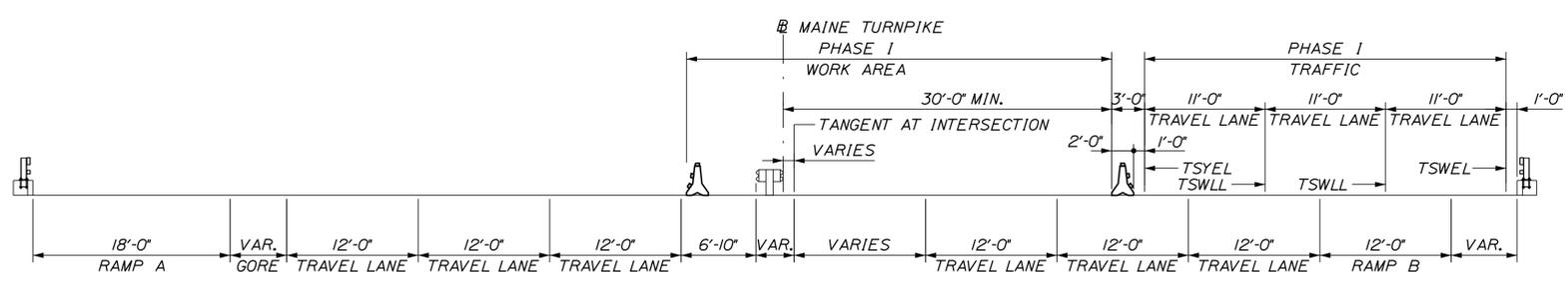
ITEM 202.206 - REMOVING RUMBLE STRIPS		
STATION	IQ	STATION
574+40		578+75, RT
580+40		582+50, RT
583+45		584+15, RT
586+50		590+15, RT



PHASE I - NORTHBOUND
NOT TO SCALE

WORK ZONE

*AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN (ATMSLS)



PHASE I
DENNETT ROAD BRIDGE DECK CROSS SECTION
NOT TO SCALE
(LOOKING NORTHBOUND)

NOTES:

1. CONTRACTOR SHALL PROVIDE ALTERNATE SIGN ATTACHMENTS FOR SIGNS PLACED ON THE PISCATIGUA RIVER BRIDGE.
2. WORK ZONES SHOWN ARE NOT ADEQUATE FOR ALL WORK ACTIVITIES AND LANE CLOSURES MAY BE NECESSARY.
3. ALL STATIONS ARE APPROXIMATE.
4. FOR SOUTHBOUND SHOULDER CLOSURE SIGNING, SEE DETAIL SHEET MT-01.
5. NORTHBOUND SHOULDERS SHALL BE PAVED TO FINAL CONDITIONS DURING PHASE I WORK. TEMPORARY PAVEMENT SHALL BE USED TO TRANSITION TO EXISTING MEDIAN GRADES UNTIL NEW PRECAST MEDIAN BARRIER IS INSTALLED IN PHASE IV.

Date: 1/31/2018

Filename: ...:\00\HIGHWAY\MST\A\MOT-Phase1.dgn

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
Designed	By	Date	Checked	By	Date
Drawn	By	Date	In Charge of	By	Date
	DWB	10/2017		JRH	10/2017
	TSK	10/2017		DSM	1/2018

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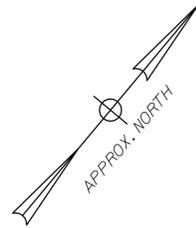
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

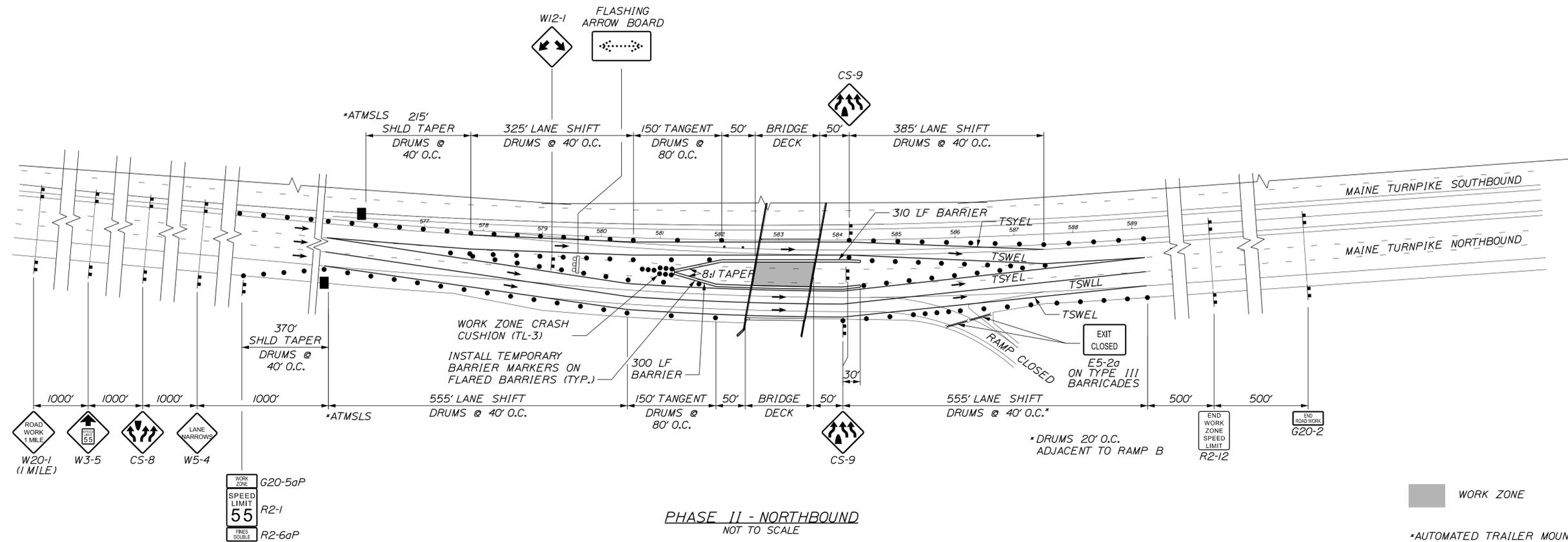
BRIDGE REPAIRS
DENNETT ROAD OVERPASS

MAINTENANCE OF TRAFFIC PHASE I

SHEET NUMBER: MT-08
CONTRACT: 2018.08
11 OF 40



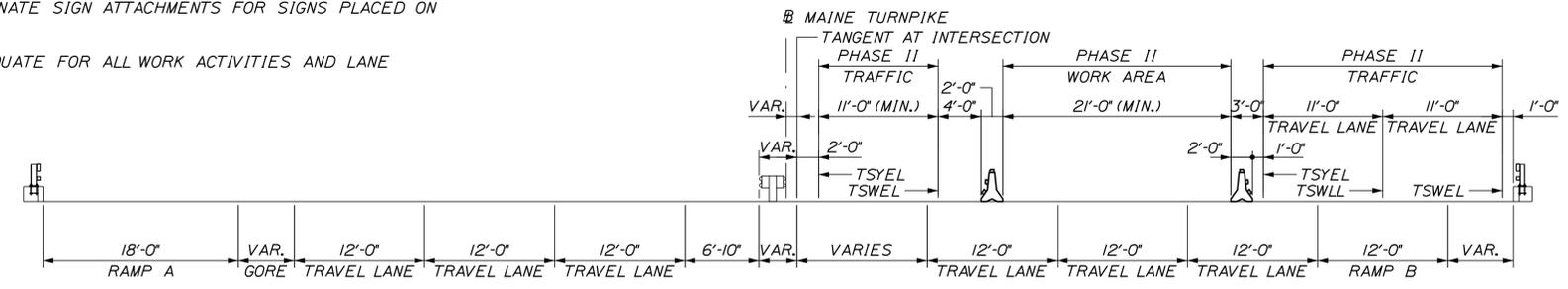
Date: 1/31/2018



PHASE II - NORTHBOUND
 NOT TO SCALE

NOTES:

1. CONTRACTOR SHALL PROVIDE ALTERNATE SIGN ATTACHMENTS FOR SIGNS PLACED ON THE PISCATUQUA RIVER BRIDGE.
2. WORK ZONES SHOWN ARE NOT ADEQUATE FOR ALL WORK ACTIVITIES AND LANE CLOSURES MAY BE NECESSARY.
3. ALL STATIONS ARE APPROXIMATE.



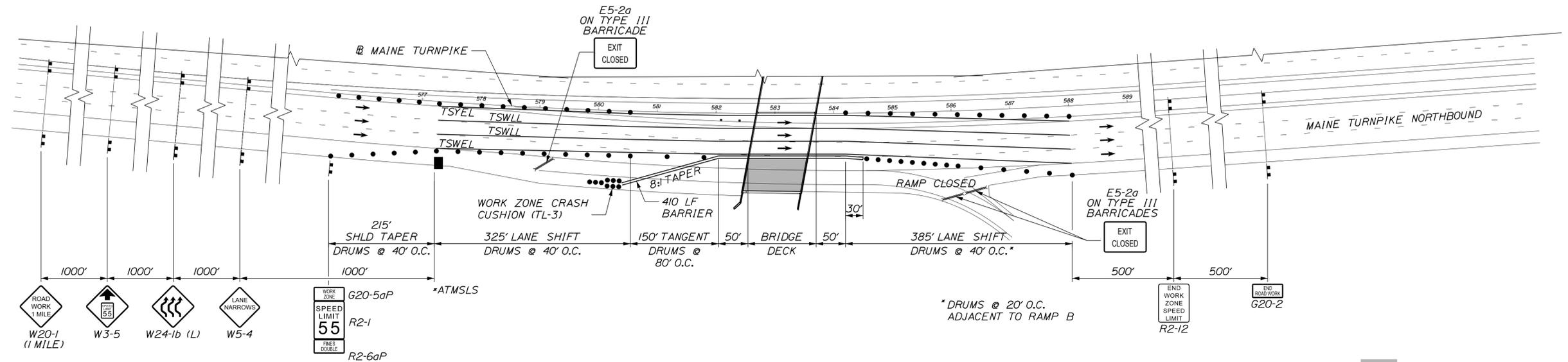
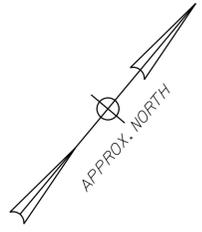
PHASE II
 DENNETT ROAD BRIDGE DECK CROSS SECTION
 NOT TO SCALE
 (LOOKING NORTHBOUND)

Filename: ...:\00\HIGHWAY\MST\MOT-Phase2.dgn

Scale: NOT TO SCALE		Designed by: TYLIN INTERNATIONAL		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		BRIDGE REPAIRS DENNETT ROAD OVERPASS MAINTENANCE OF TRAFFIC PHASE II																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date									<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 DWB</td> <td>10/2017</td> <td>Checked JRH</td> <td>10/2017</td> </tr> <tr> <td>Drawn TSK</td> <td>10/2017</td> <td>In Charge of DSM</td> <td>1/2018</td> </tr> </tbody> </table>		By	Date	By	Date	Designed DWB	10/2017	Checked JRH	10/2017	Drawn TSK	10/2017	In Charge of DSM	1/2018	CONSULTANT PROJECT MANAGER: Heath Cowan MTA PROJECT MANAGER: Ralph C. Norwood, IV		SHEET NUMBER: MT-09 CONTRACT: 2018.08 12 OF 40	
No.	Revision	By	Date																												
By	Date	By	Date																												
Designed DWB	10/2017	Checked JRH	10/2017																												
Drawn TSK	10/2017	In Charge of DSM	1/2018																												

Date: 1/31/2018

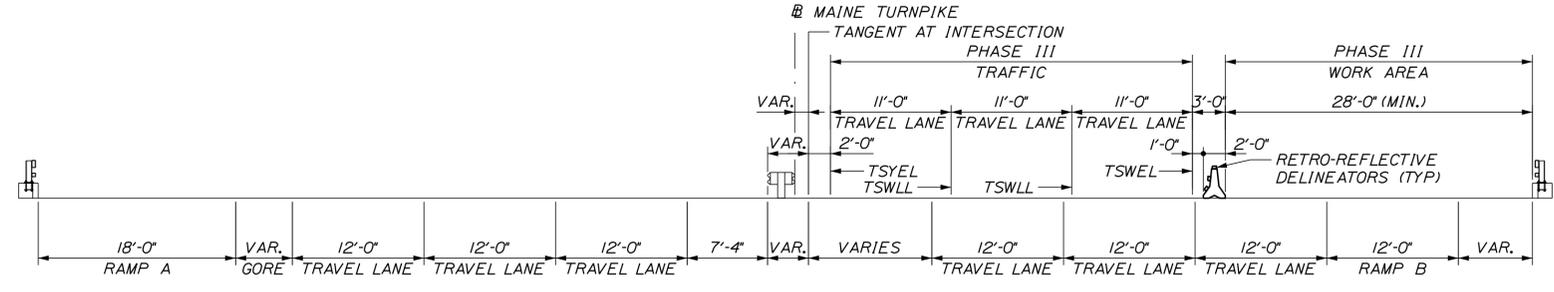
Filename: ...:\00\HIGHWAY\MST\WOT-Phase3.dgn



PHASE III - NORTHBOUND
NOT TO SCALE

NOTES:

1. CONTRACTOR SHALL PROVIDE ALTERNATE SIGN ATTACHMENTS FOR SIGNS PLACED ON THE PISCATAQUA RIVER BRIDGE.
2. WORK ZONES SHOWN ARE NOT ADEQUATE FOR ALL WORK ACTIVITIES AND LANE CLOSURES MAY BE NECESSARY.
3. ALL STATIONS ARE APPROXIMATE.



PHASE III DENNETT ROAD BRIDGE DECK CROSS SECTION
NOT TO SCALE (LOOKING NORTHBOUND)

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

	By	Date	By	Date	
Designed	DWB	10/2017	Checked	JRH	10/2017
Drawn	TSK	10/2017	In Charge of	DSM	1/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

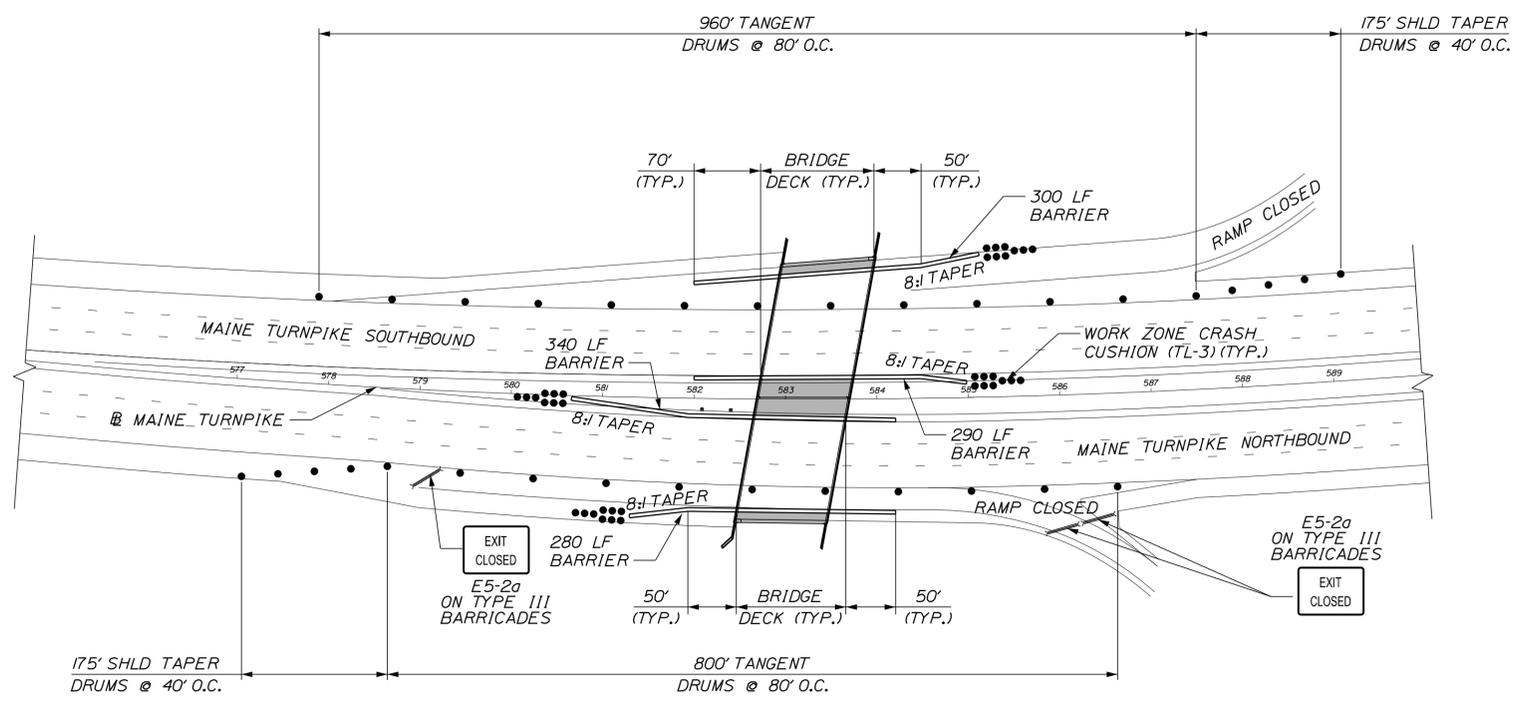
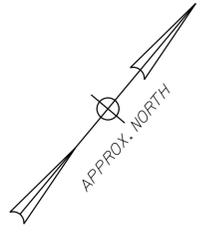
BRIDGE REPAIRS
DENNETT ROAD OVERPASS

MAINTENANCE OF TRAFFIC PHASE III

SHEET NUMBER: MT-10
CONTRACT: 2018.08
13 OF 40

Date: 1/31/2018

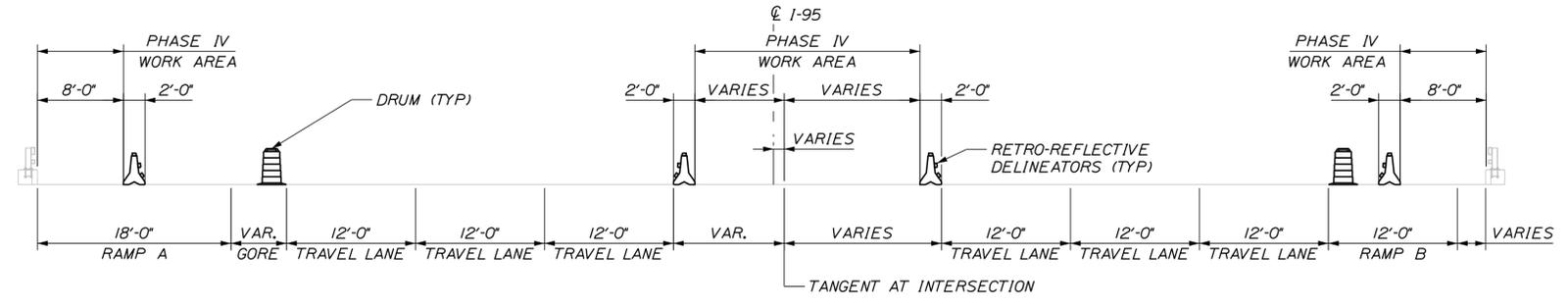
Filename: ...:\00\HIGHWAY\MST\A\MOT-Phase4.dgn



NOTES:

1. CONTRACTOR SHALL PROVIDE ALTERNATE SIGN ATTACHMENTS FOR SIGNS PLACED ON THE PISCATQUIA RIVER BRIDGE.
2. WORK ZONES SHOWN ARE NOT ADEQUATE FOR ALL WORK ACTIVITIES AND LANE CLOSURES MAY BE NECESSARY.
3. ALL STATIONS ARE APPROXIMATE.
4. FOR ALL SIGNING SEE SHOULDER CLOSURE DETAIL SHEET MT-01.

PHASE IV
NOT TO SCALE



PHASE IV
DENNETT ROAD BRIDGE DECK CROSS SECTION
NOT TO SCALE
(LOOKING NORTHBOUND)

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	JRH	10/2017	Checked	JRH	10/2017
Drawn	BLT	10/2017	In Charge of	DSM	1/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS

MAINTENANCE OF TRAFFIC PHASE IV

SHEET NUMBER: MT-11
CONTRACT: 2018.08
14 OF 40

Date: 1/31/2018

Filename: ...XXX_MOT_Sign_Summary_01.dgn

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			
CS-1	48"	48"		6" 6" 6"	4" 4"		6	ORANGE	BLACK		16.00 (96)	
CS-2	102"	18"	VIA EXIT 2	10" EM	4" 4"		2	ORANGE	BLACK		12.75 (25.5)	NO BORDER
CS-3	168"	42"	EXIT CLOSED	15" E	13.5" 13.5"		2	ORANGE	BLACK		49 (98)	
CS-5	48"	78"	I-95 SB EXIT 1 ON RAMP CLOSED USE EXIT 2	8D 8D 8D 8D 8D	5 4 4 4 4 5		3	ORANGE	BLACK		26.00 (78)	
CS-8	48"	48"					2	ORANGE	BLACK		16.00 (32)	
CS-9	48"	48"					3	ORANGE	BLACK		16.00 (48)	
CS-10	48"	48"	TRUCKS ENTERING	7" 7"	6"		1	ORANGE	BLACK		16.00 (16)	
D3-1	48"	12"	Dennett Rd	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			4	ORANGE	BLACK		4.00 (16)	
E5-2a	48"	36"	EXIT CLOSED				8	ORANGE	BLACK		12.00 (96)	
G20-2	48" 36"	24" 18"	END ROAD WORK				16 4	ORANGE	BLACK		8.00 (128) 4.50 (18)	
G20-5aP	48"	24"	WORK ZONE				10	ORANGE	BLACK		8.00 (80)	
MI-1	24"	24"					5	RED/ BLUE	WHITE		4.00 (20)	

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			
M3-1	24"	12"	SOUTH	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			5	WHITE	BLACK		2.00 (10)	
M4-5	24"	12"	TO				5	WHITE	BLACK		2.00 (10)	
M4-8	24"	12"	DETOUR				9	WHITE	BLACK		2.00 (18)	
M4-8a	24"	18"	END DETOUR				1	ORANGE	BLACK		3.00 (3)	
M4-9 (LEFT) (RIGHT)	30"	24"	DETOUR →				1 2	ORANGE	BLACK		5.00 (5) (10)	
M4-9 (SR)	30"	24"	DETOUR ↗				1	ORANGE	BLACK		5.00 (5)	
M6-1 (LEFT) (RIGHT)	30"	24"	→				4 2	WHITE	BLACK		5.00 (20) (10)	
M6-2 (LEFT) (RIGHT)	30"	24"	↗				1 1	WHITE	BLACK		5.00 (5) (5)	
M6-3	30"	24"	↑				1	ORANGE	BLACK		5.00 (5)	
R1-2	36"	36"					1	WHITE	RED		3.90 (3.9)	
R2-1	48"	60"	SPEED LIMIT 55				10	WHITE	BLACK		20.00 (200)	
R2-6aP	48"	24"	FINES DOUBLE				10	WHITE	BLACK		8.00 (80)	
R2-12	36"	54"	END WORK ZONE SPEED LIMIT				12	WHITE	BLACK		13.5 (162)	
R11-2	48"	30"	ROAD CLOSED				3	WHITE	BLACK		10 (30)	
W3-2	48"	48"					1	ORANGE	BLACK		16.00 (16)	
W3-4	48"	48"	BE PREPARED TO STOP				6	ORANGE	BLACK		16.00 (96)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

By	Date	By	Date
Designed TSK	10/2017	Checked JRH	1/2018
Drawn JTR	10/2017	In Charge of DSM	1/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 MAINTENANCE OF TRAFFIC
 SIGN SUMMARY 1 OF 2

SHEET NUMBER: MT-12
 CONTRACT: 2018.08
 15 OF 40

Date: 1/31/2018

Filename: ...XXX_MOT_Sign_Summary_01.dgn

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			
W3-5	48"	48"		TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			12	ORANGE	BLACK		16.00 (192)	
W4-1	48"	48"					2	ORANGE	BLACK		16.00 (32)	
W4-2 (LEFT) (RIGHT)	48"	48"					14 14	ORANGE	BLACK		16.00 (224) (224)	
W5-4	48"	48"	LANE NARROWS				2	ORANGE	BLACK		16.00 (64)	
W7-3aP	36"	30"	NEXT X FEET				3	ORANGE	BLACK		7.50 (22.5)	
W8-1	48"	48"	BUMP				8	ORANGE	BLACK		16.00 (128)	
W8-24a	48"	48"	RUMBLE STRIPS AHEAD				8	ORANGE	BLACK		16.00 (128)	
W12-1	48"	48"					4	ORANGE	BLACK		16.00 (64)	
W20-1 (1 MILE) (AHEAD)	48"	48"	ROAD WORK XXX				12 7	ORANGE	BLACK		16.00 (192) (112)	
(AHEAD)	36"	36"		4						9.00 (36)		

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			
W20-5 (LEFT) (RIGHT)	48"	48"	XXX LANE CLOSED 1/2 MILE	TEXT DIMENSIONS SHALL CONFORM TO "STANDARD HIGHWAY SIGNS" - 2009 & 2012 SUPPLEMENT			6 6	ORANGE	BLACK		16.00 (96) (96)	
W20-5a (LEFT) (RIGHT)	48"	48"	2 XXX LANES CLOSED 1/2 MILE				8 8	ORANGE	BLACK		16.00 (128) (128)	
W20-4	36"	36"	ONE LANE ROAD AHEAD				4	ORANGE	BLACK		9.00 (36)	
W20-7a	36"	36"					4	ORANGE	BLACK		9.00 (36)	
W21-5	48"	48"	SHOULDER WORK				2	ORANGE	BLACK		16.00 (32)	
W21-5a (RIGHT) (LEFT)	48"	48"	XXX SHOULDER CLOSED				2 2	ORANGE	BLACK		16.00 (32) (32)	
W21-5b (RIGHT) (LEFT)	48"	48"	XXX SHOULDER CLOSED 1000 FT				2 2	ORANGE	BLACK		16.00 (32) (32)	
W24-1a (LEFT) (RIGHT)	48"	48"					2 2	ORANGE	BLACK		16.00 (32) (32)	
W24-1b (LEFT) (RIGHT)	48"	48"					2 2	ORANGE	BLACK		16.00 (32) (32)	

Scale: NOT TO SCALE

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

By	Date	By	Date
Designed TSK	10/2017	Checked JRH	1/2018
Drawn JTR	10/2017	In Charge of DSM	1/2018

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MAINE TURNPIKE

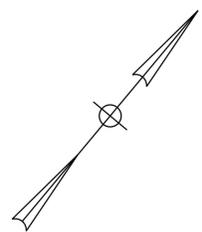
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 MAINTENANCE OF TRAFFIC
 SIGN SUMMARY 2 OF 2

SHEET NUMBER: MT-13
 CONTRACT: 2018.08
 16 OF 40

Date: 1/31/2018



CB2
 STA. 582+14.93, 6.78' LT
 CB TYPE BI
 RIM = 72.22
 24" INV. IN = 63.60 (EXISTING)
 24" INV. OUT = 63.60

PI
 STA. 582+14.87, 0.47' RT TO
 STA. 582+14.92, 4.78' LT
 INSTALL 24" x 5.3'
 CULVERT PIPE OPT. III

CB1
 STA. 582+14.86, 2.47' RT
 CB TYPE BI
 RIM = 71.91
 6" INV. IN = UNKNOWN
 12" INV. IN = 66.75
 24" INV. OUT = 63.53
 24" INV. OUT = 63.53 (EXISTING)

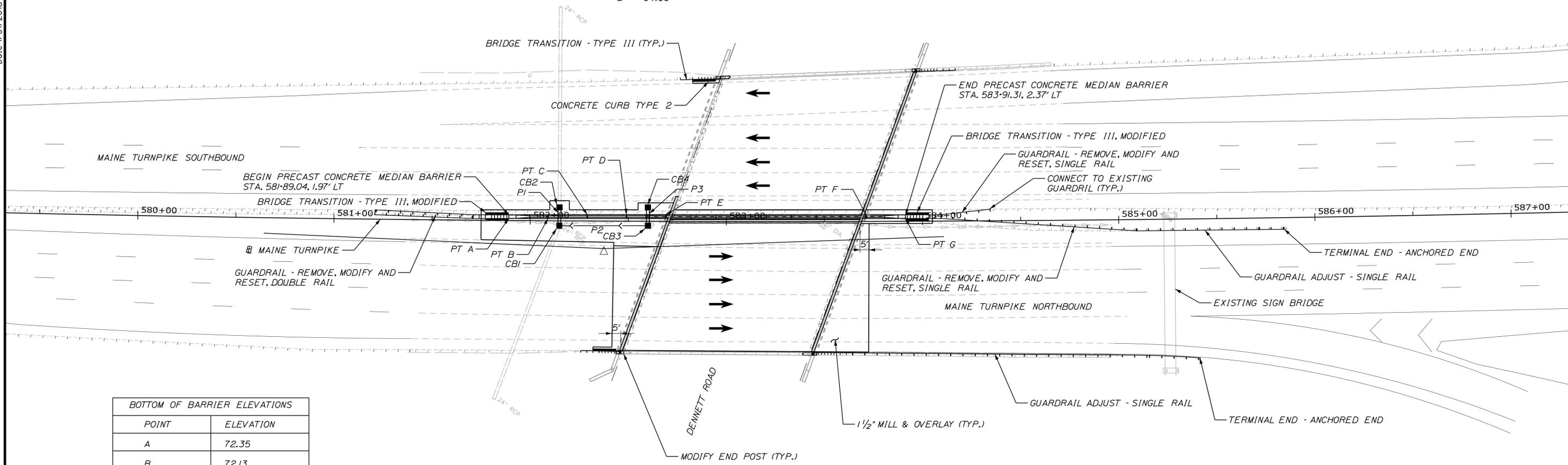
P2
 STA. 582+16.86, 2.46' RT TO
 STA. 582+159.00, 2.25' RT
 INSTALL 12" x 42.2'
 UNDERDRAIN TYPE C

CB3
 STA. 582+60.00, 2.24' RT
 CB TYPE F5
 RIM = 71.19
 12" INV. IN = 67.25
 12" INV. OUT = 67.19

P3
 STA. 582+60.00, 1.24' RT TO
 STA. 582+60.00, 6.01' LT
 INSTALL 12" x 7.3'
 CULVERT PIPE OPT. III

CB4
 STA. 582+60.00, 7.01' LT
 CB TYPE F5
 RIM = 71.33
 12" INV. OUT = 67.33

CURVE DATA
 PI = 582+37.98
 D = 0°20'00.0"
 Δ = 4°37'25.0" Lt.
 R = 17188.73'
 L = 1387.08'
 T = 693.92'
 E = 14.00'



BOTTOM OF BARRIER ELEVATIONS	
POINT	ELEVATION
A	72.35
B	72.13
C	71.79
D	71.49
E	71.18
F	69.59
G	69.29

ITEM 606.1724 - BRIDGE TRANSITION - TYPE III, MODIFIED

STATION	OFFSET	TO	STATION	OFFSET
581+71	2' LT		581+89	2' LT
583+91	2' LT		584+09	2' LT

ITEM 606.3605 - REMOVE, MODIFY AND RESET, SINGLE RAIL

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
584+09	3' LT		584+34	4' LT	25'
584+09	1' LT		585+09	6' RT	100'

ITEM 606.3621 - GUARDRAIL ADJUST - SINGLE RAIL

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
583+64	67' RT		585+28	70' RT	165'
585+09	6' RT		585+72	6' RT	63'

ITEM 606.1723 - BRIDGE TRANSITION - TYPE III

STATION	OFFSET	TO	STATION	OFFSET
582+26	66' RT		582+46	66' RT
582+76	72' LT		582+97	72' LT
583+44	67' RT		583+64	67' RT
583+97	76' LT		584+17	77' LT

ITEM 606.3606 - REMOVE, MODIFY AND RESET, DOUBLE RAIL

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
581+21	3' LT		581+71	2' LT	50'

609.191 - CONCRETE CURB TYPE 2

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
581+77	3' LT		581+89	3' LT	12'
581+77	1' LT		581+89	1' LT	12'
582+32	66' RT		582+44	66' RT	12'
582+83	72' LT		582+95	72' LT	12'
583+91	3' LT		584+03	3' LT	12'
583+91	1' LT		584+03	1' LT	12'

ITEM 606.278 - TERMINAL END - ANCHORED END

STATION	OFFSET	TO	STATION	OFFSET
585+28	70' RT		585+41	71' RT
585+72	6' RT		585+84	6' RT

- NOTE:**
- ALL STATIONING IS APPROXIMATE.
 - BARRIER ELEVATIONS NOTED ARE AT BOTTOM OF BARRIER AT ENDS OF EACH SECTION.
 - A COATING OF HOT RUBBERIZED ASPHALT (ASTM D6690, TYPE IV) SHALL BE APPLIED ON ALL SURFACE PAVEMENT JOINTS.

Scale: 1" = 25'

No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

By	Date	By	Date
Designed	JRH 12/2017	Checked	DSM 12/2017
Drawn	TSK 12/2017	In Charge of	DSM 1/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

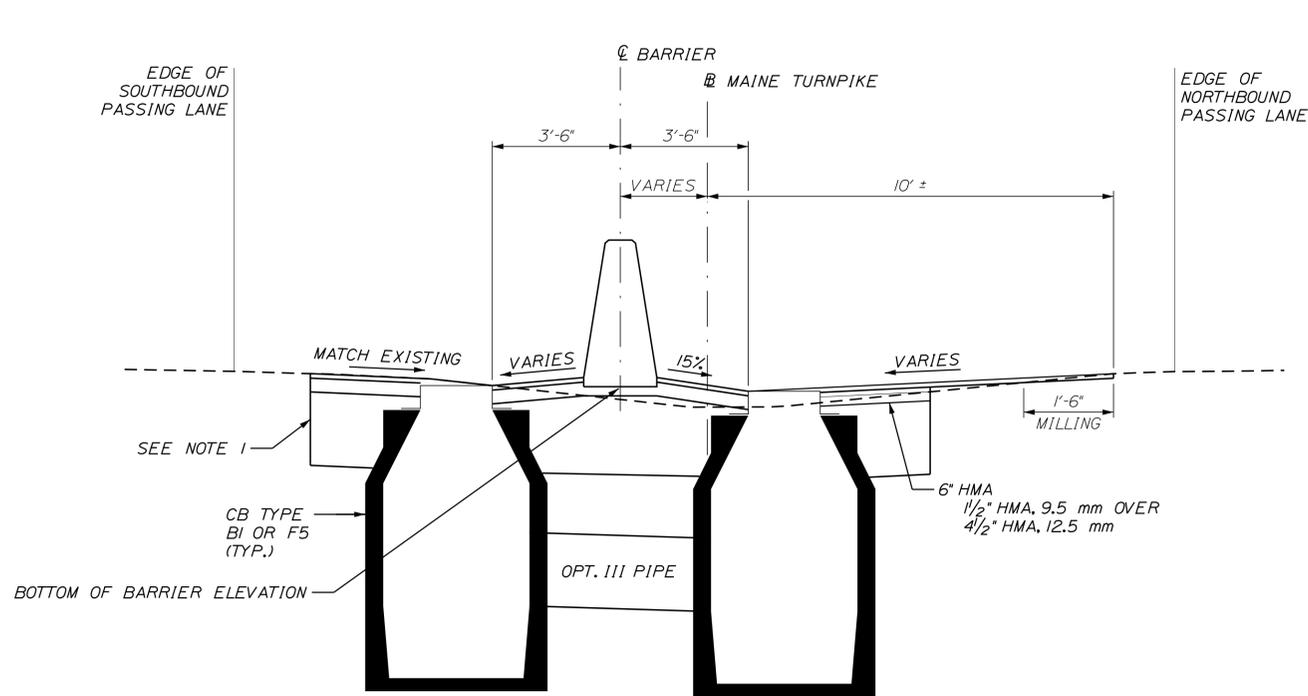
**BRIDGE REPAIRS
 DENNETT ROAD OVERPASS**

GENERAL PLAN

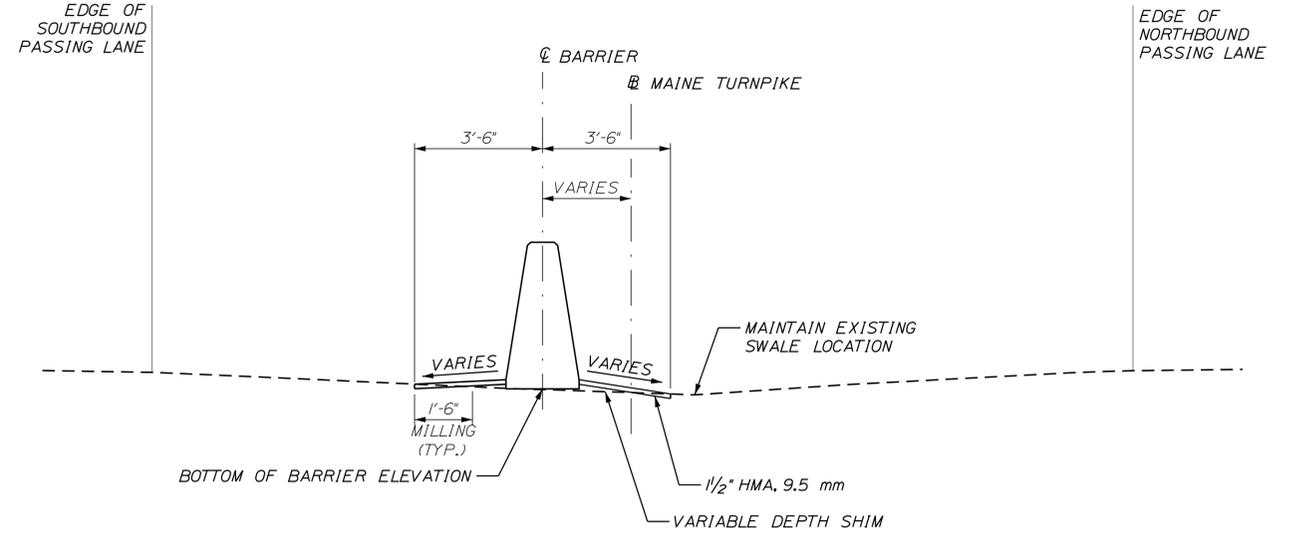
SHEET NUMBER: GP-01
 CONTRACT: 2018.08
 17 OF 40

Filename: ... \HIGHWAY\MSTAVXXX_HDPlan_01.dgn

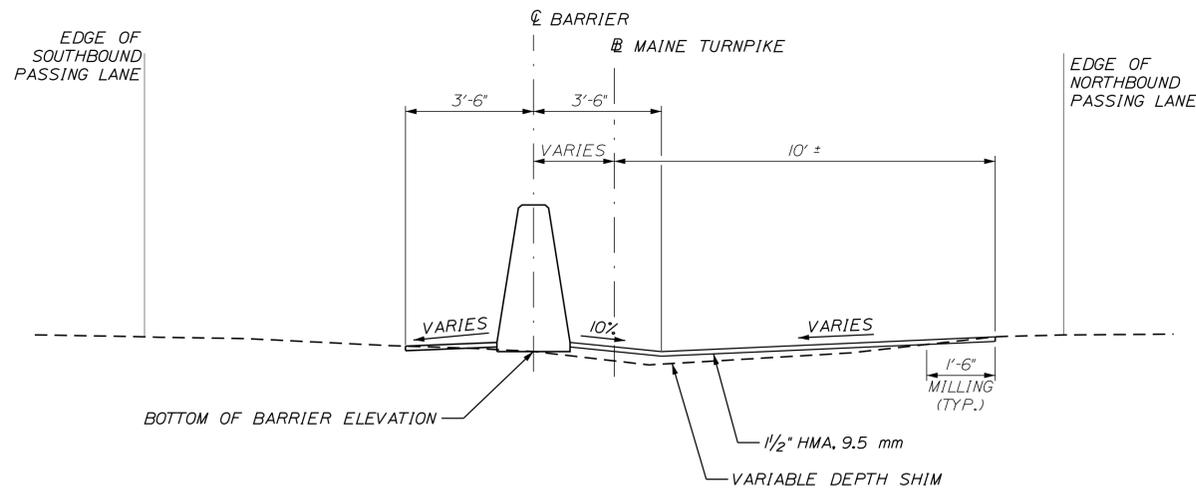
Date: 1/31/2018



TYPICAL SECTION AT CATCH BASINS



TYPICAL SECTION NORTH OF DENNETT ROAD



TYPICAL SECTION SOUTH OF DENNETT ROAD

NOTES:

1. GRAVEL IN EXCAVATION AREAS SHALL BE AGGREGATE SUBBASE COURSE - GRAVEL (TYPE D) AND SHALL BE PLACED TO A MINIMUM DEPTH OF 24", OR MATCH EXISTING GRAVEL DEPTHS IF MORE.
2. SEAL MEDIAN AREAS WITH TWO APPLICATIONS OF EMULSIFIED BITUMINOUS SEALER PER SPECIFICATION 401 AFTER COMPLETING ALL PAVING WORK. PAYMENT FOR SEALING SHALL BE INCIDENTAL TO PAVING ITEMS.
3. A COATING OF HOT RUBBERIZED ASPHALT (ASTM D6690, TYPE IV) SHALL BE APPLIED ON ALL SURFACE PAVEMENT JOINTS.

Filename: ... \MSTA\Typical Sections.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	JRH	1/2018	Checked	TSK	1/2018
Drawn	TSK	1/2018	In Charge of	DSM	1/2018

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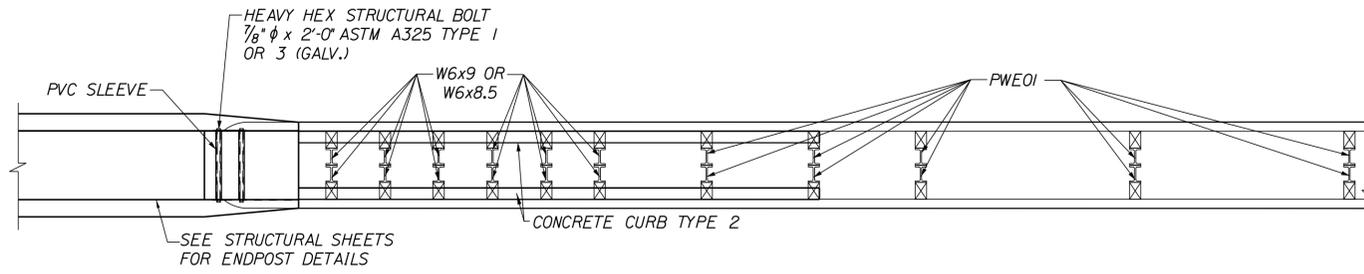
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

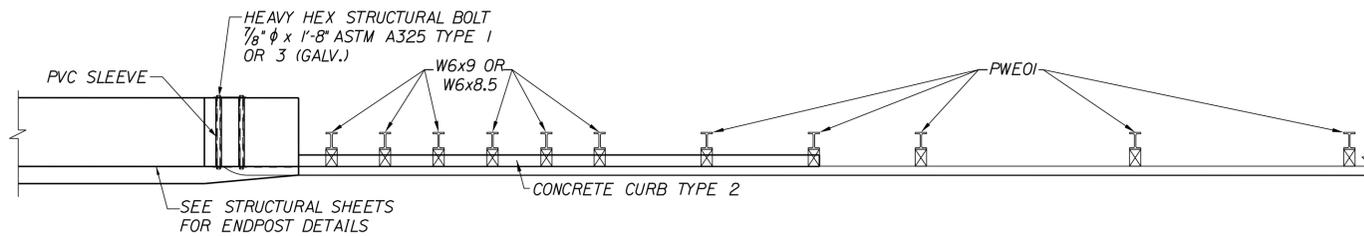
BRIDGE REPAIRS
DENNETT ROAD OVERPASS
MEDIAN TYPICAL SECTIONS

SHEET NUMBER: GP-02
CONTRACT: 2018.08
18 OF 40

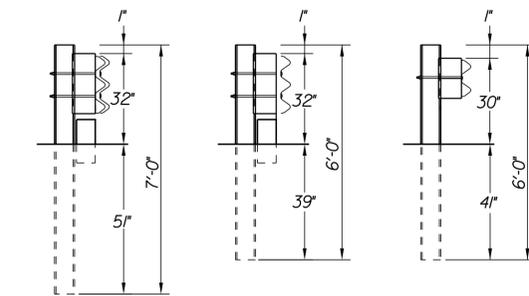
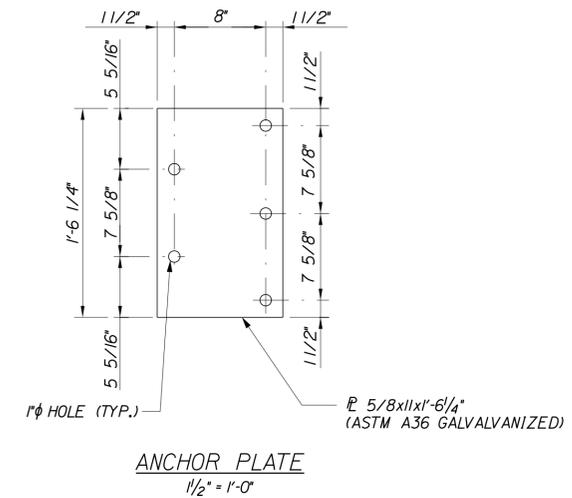
Date: 1/31/2018



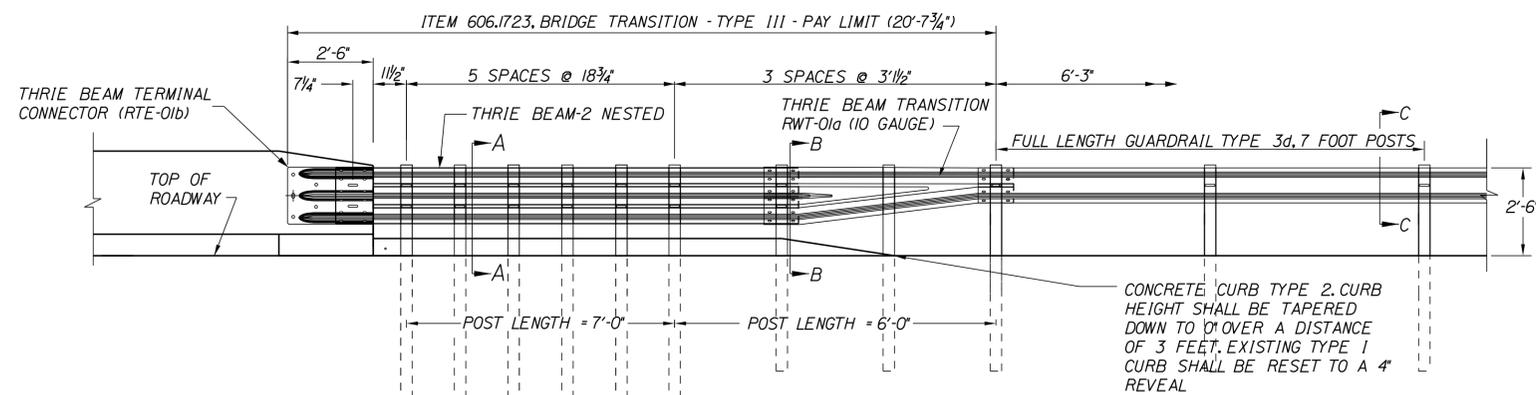
PLAN VIEW
BRIDGE TRANSITION - TYPE III, MODIFIED
3/8" = 1'-0"



PLAN VIEW
BRIDGE TRANSITION - TYPE III
3/8" = 1'-0"



SECTION A-A SECTION B-B SECTION C-C



THRIE BEAM BRIDGE ATTACHMENT AT APPROACH END POSTS
3/8" = 1'-0"

GENERAL NOTES:

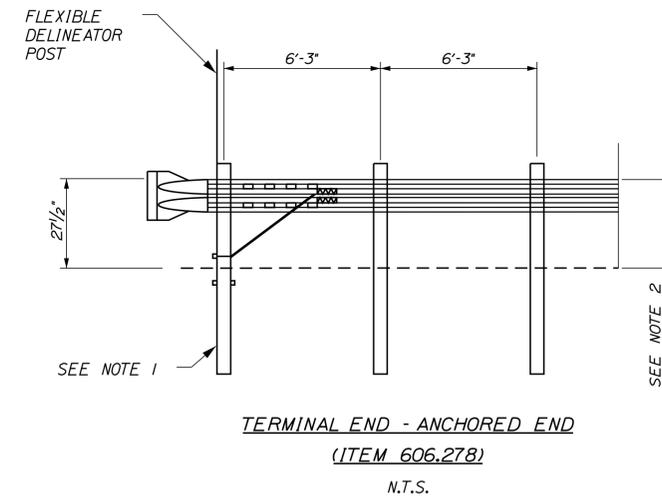
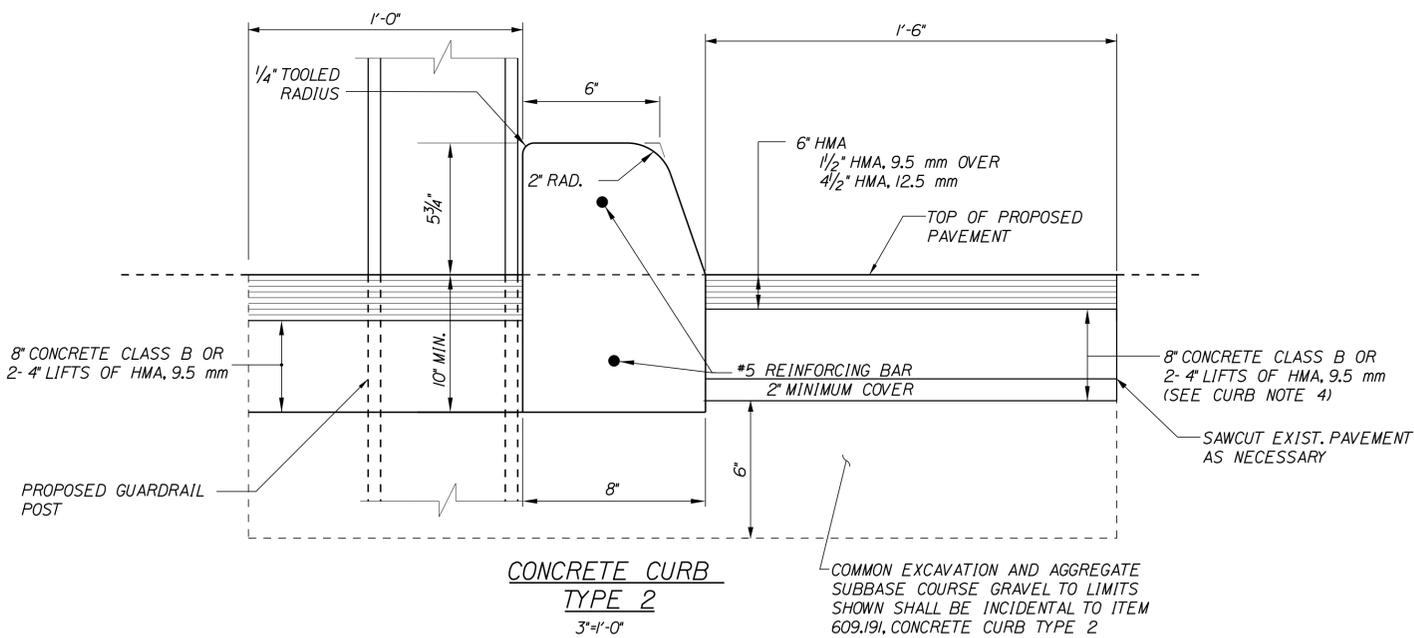
1. ADDITIONAL HOLES MAY BE MADE IN THE THRIE-BEAM PANELS BY DRILLING, PUNCHING, OR OTHER MEANS THAT PRODUCE A NEAT, CLEAN HOLE. BURNING HOLES WILL NOT BE ALLOWED.
2. THRIE BEAM SHALL BE PLACED WITH THE COMPOSITE BLOCKOUT FACE IN FRONT OF OR DIRECTLY ABOVE THE CURB FACE.
3. RAIL ELEMENT SHALL MEET ALL 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. ALL BOLTS SHALL HAVE DOUBLE NUTS.
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.

Filename: ...XXX_Guardrail_Details_1.dgn

Scale: AS NOTED		Designed by: TYLIN INTERNATIONAL		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		BRIDGE REPAIRS DENNETT ROAD OVERPASS GUARDRAIL DETAILS SHEET 1 OF 2																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													CONSULTANT PROJECT MANAGER: Heath Cowan <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>JRH 5/2017</td> <td>Checked</td> <td>KSD 5/2017</td> </tr> <tr> <td>Drawn</td> <td>PEM 5/2017</td> <td>In Charge of</td> <td>DSM 1/2018</td> </tr> </tbody> </table>		By	Date	By	Date	Designed	JRH 5/2017	Checked	KSD 5/2017	Drawn	PEM 5/2017	In Charge of	DSM 1/2018	MTA PROJECT MANAGER: Ralph C. Norwood, IV CONTRACT: 2018.08		SHEET NUMBER: GR-01 19 OF 40	
No.	Revision	By	Date																																
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Designed	JRH 5/2017	Checked	KSD 5/2017																																
Drawn	PEM 5/2017	In Charge of	DSM 1/2018																																

Date: 1/31/2018

Filename: ...XXX_Guardrail_Details_2.dgn



GENERAL NOTES:

1. 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.
2. 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.

CURB NOTES:

1. CURBING SHALL BE EITHER PRECAST CONCRETE, CAST-IN-PLACE CONCRETE OR GRANITE TO MEET DIMENSIONS SHOWN ON THE PLANS. CURVING SHALL BE PAID UNDER ITEM 609.191 CONCRETE CURB TYPE 2.
2. CONCRETE CURBS USED IN CONJUNCTION WITH THRIE-BEAM BRIDGE ATTACHMENT SHALL BE TYPE 2. SEE DETAILS THIS SHEET. CONCRETE CURBS SHALL BE CONTINUOUS WITHOUT DRAINAGE CUTS.
3. CURB TRANSITIONS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 609.191 CONCRETE CURB TYPE 2.
4. SAWCUTTING EXISTING PAVEMENT CONCRETE FILL AND PAVEMENT TO LIMITS SHOWN SHALL BE INCIDENTAL TO ITEM 609.191.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

By	Date	By	Date
Designed	JRH 5/2017	Checked	KSD 5/2017
Drawn	PEM 5/2017	In Charge of	DSM 1/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 GUARDRAIL DETAILS
 SHEET 2 OF 2

SHEET NUMBER: GR-02
 CONTRACT: 2018.08
 20 OF 40

Date: 1/31/2018

Filename: ...XXX_Limits_Of_Disturbance.dgn

NOTES:

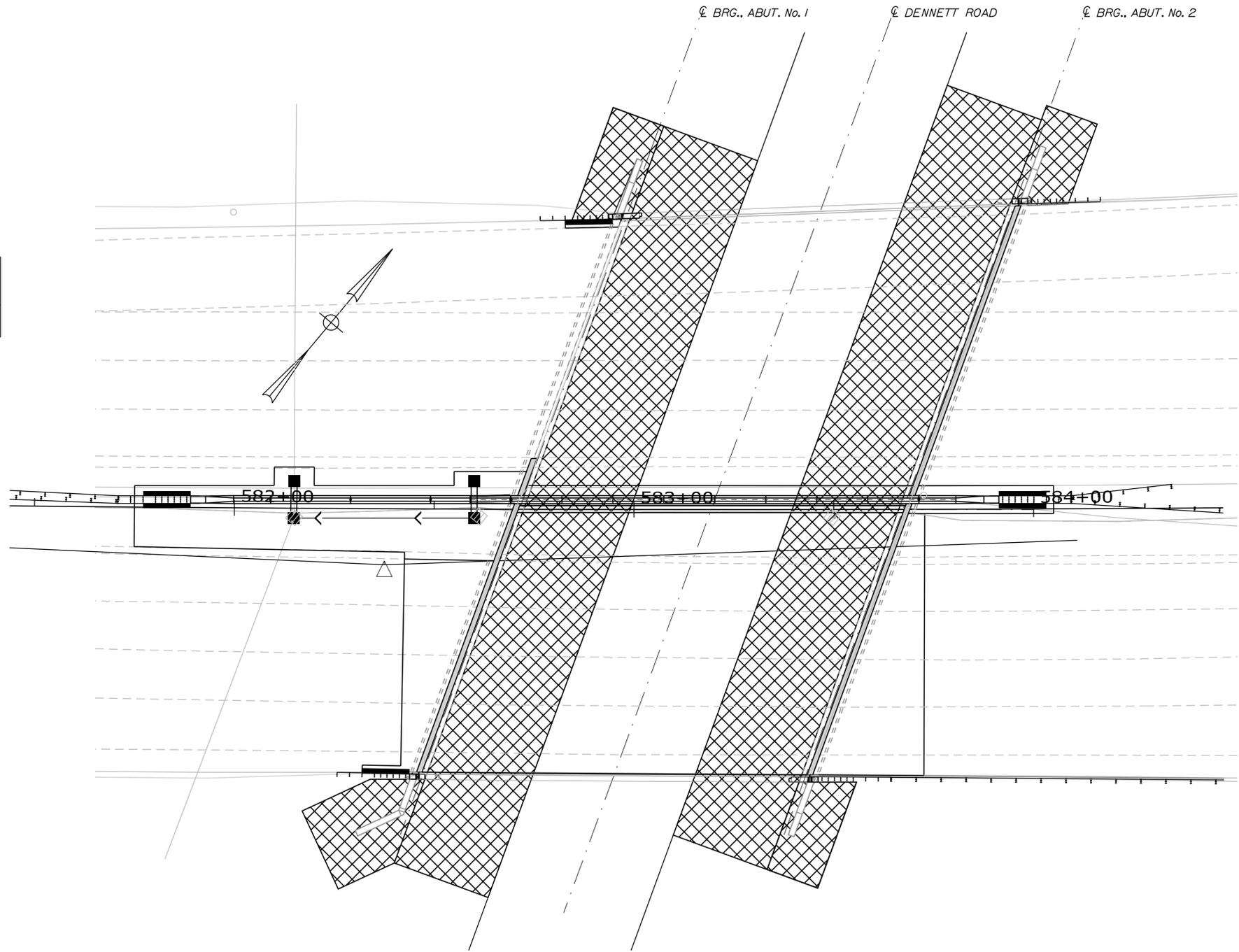
1. EROSION AND SEDIMENT CONTROL DEVICES REQUIRED FOR THE CONTRACTOR'S ACCESS LOCATIONS AND STORAGE AREAS WILL NOT BE MEASURED FOR PAYMENT.
2. THE CONTRACTOR WILL BE ALLOWED TO STORE MATERIAL AND EQUIPMENT ON GRAVEL AND PAVEMENT WITHIN THE CLOSED PORTIONS OF THE MAINLINE TURNPIKE AND DENNETT ROAD. THESE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

AREAS:

LOCATION	CONTRACT LIMIT OF DISTURBANCE	CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE
DENNETT ROAD OVERPASS (MILE 0.6)	0 ACRES	0.025 ACRES

LEGEND:

-  CONTRACT LIMIT OF DISTURBANCE
-  CONTRACTOR'S LIMIT OF DISTURBANCE AREA FOR ACCESS AND STORAGE



LIMIT OF DISTURBANCE PLAN
SCALE: 3/32" = 1'-0"

Scale: NOT TO SCALE				
No.	Revision	By	Date	

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

	By	Date	Checked	By	Date
Designed	DSM	9/2017		NLB	10/2017
Drawn	ECW	9/2017	In Charge of	DSM	1/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
LIMIT OF DISTURBANCE

SHEET NUMBER: LD-01
CONTRACT: 2018.08
21 OF 40

Date: 1/31/2018

NOTES:

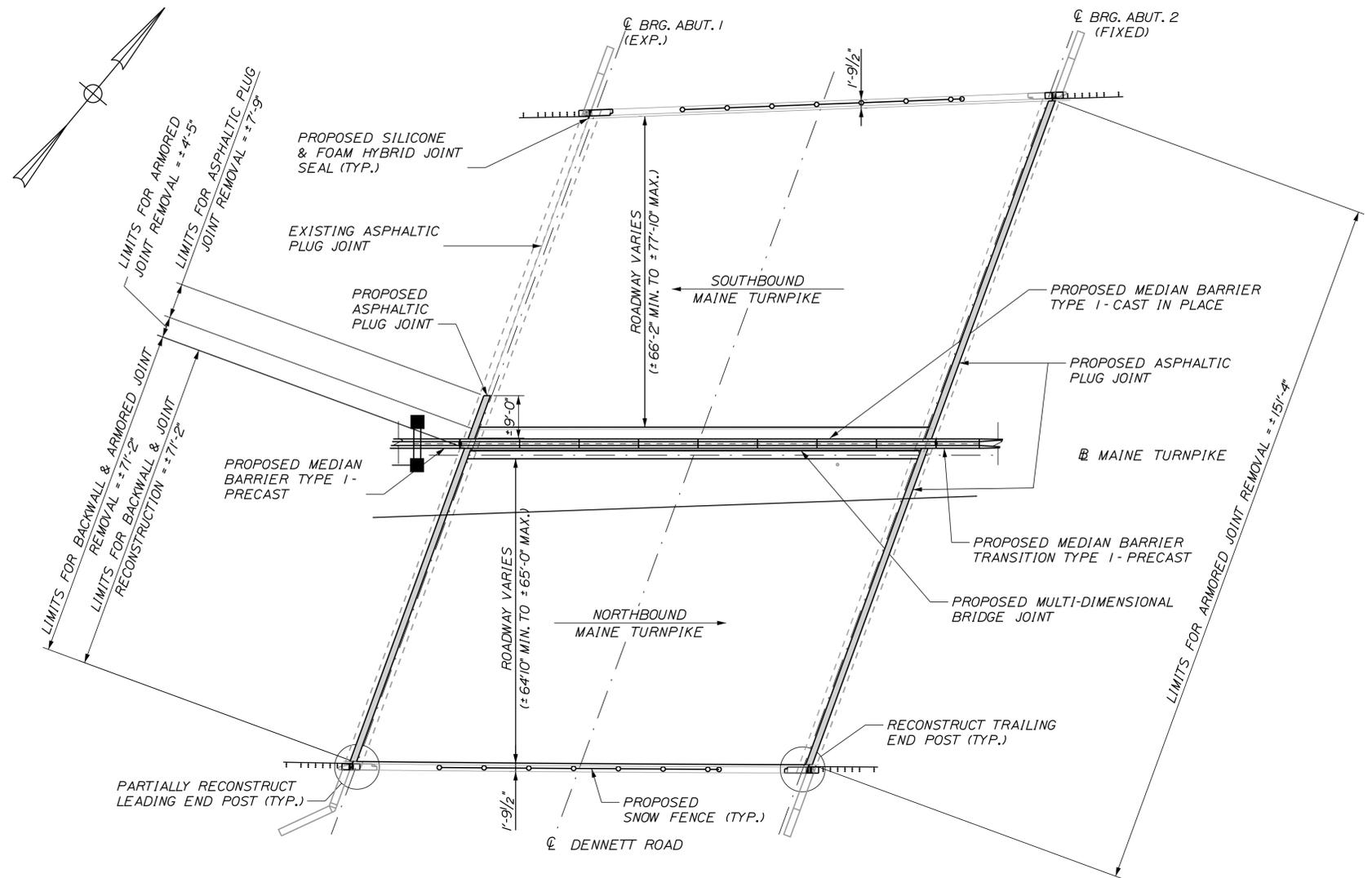
1. CONTRACTOR SHALL REPAIR AREAS OF CONCRETE DECK DETERIORATION AS IDENTIFIED BY THE RESIDENT. CONTRACTOR SHALL ALSO REPAIR DETERIORATED AREAS OF FASCIA, FASCIA OVERHANGS, AND PARAPET JOINTS AS DIRECTED BY THE RESIDENT. PAYMENT FOR REPAIR WORK SHALL BE UNDER THE 518 ITEMS.
2. CONTRACTOR SHALL REPAIR AREAS OF DETERIORATED GRANITE CURB BEDDING AND JOINT MORTAR ON THE DECK AS REQUIRED. LOCATIONS OF GRANITE CURB BEDDING AND JOINT MORTAR SHALL BE FIELD DETERMINED BY THE RESIDENT. PAYMENT SHALL BE UNDER THE 518 ITEMS.
3. SEAL SHOULDER AREAS WITH TWO APPLICATIONS OF EMULSIFIED BITUMINOUS SEALER PER SPECIFICATION SECTION 401 AFTER COMPLETING ALL DECK PAVING WORK.
4. ALL PVC DECK WEEPS WHICH DRAIN ONTO ABUTMENTS OR STRUCTURAL STEEL SHALL BE EXTENDED AND DIVERTED AWAY FROM BRIDGE COMPONENTS BELOW DECK, AND SHALL EXTEND 1 FT BELOW BOTTOM FLANGE, AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE BY THE VARIOUS LABOR AND EQUIPMENT ITEMS.

ESTIMATED REPAIR QUANTITIES (BOTH DECKS)

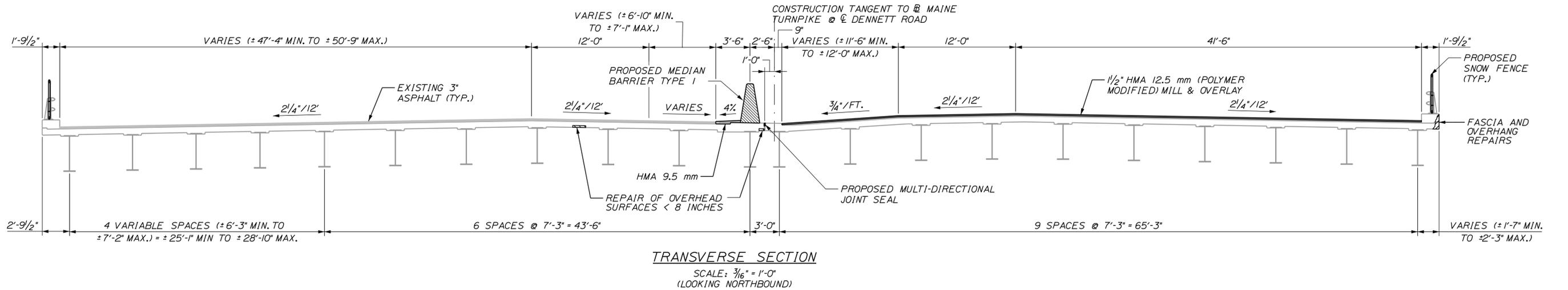
	REPAIR OF OVERHEAD SURFACES < 8 INCHES (S.F.)	FASCIA AND OVERHANG REPAIRS (S.F.)
DENNETT ROAD UNDERPASS (MILE 0.06)	275	50

LEGEND:

- LIMITS OF REPAIR OF OVERHEAD SURFACES < 8 INCHES (REPAIR AREAS TO BE DETERMINED IN THE FIELD)
- REPAIR OF FASCIA AND OVERHANG REPAIRS (REPAIR AREAS TO BE DETERMINED IN THE FIELD)



DECK PLAN
SCALE: 1/16" = 1'-0"



TRANSVERSE SECTION
SCALE: 3/16" = 1'-0"
(LOOKING NORTHBOUND)

Filename: ... \MSTA\XXX_Deck_Plan_Section.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

By	Date	By	Date
Designed	DSM 10/2017	Checked	NLB 10/2017
Drawn	SAM 10/2017	In Charge of	DSM 1/2018

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

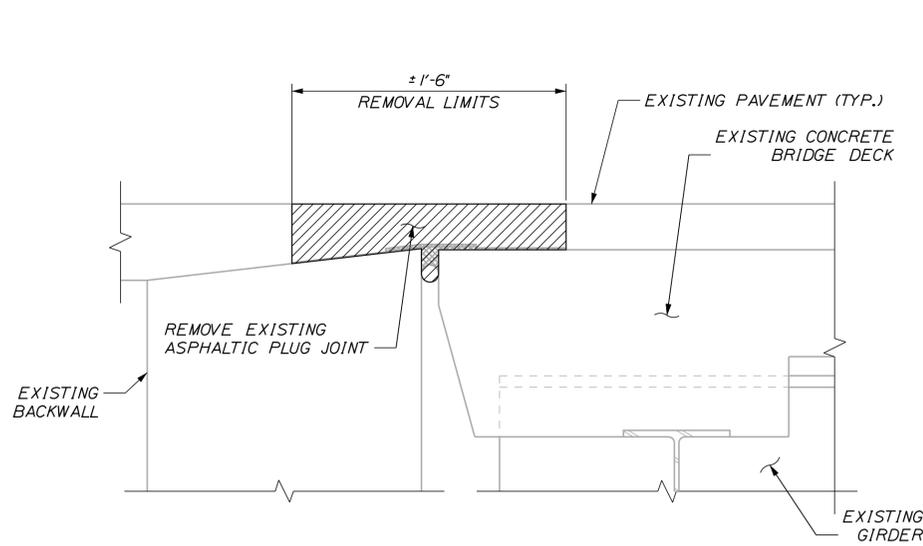
MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS

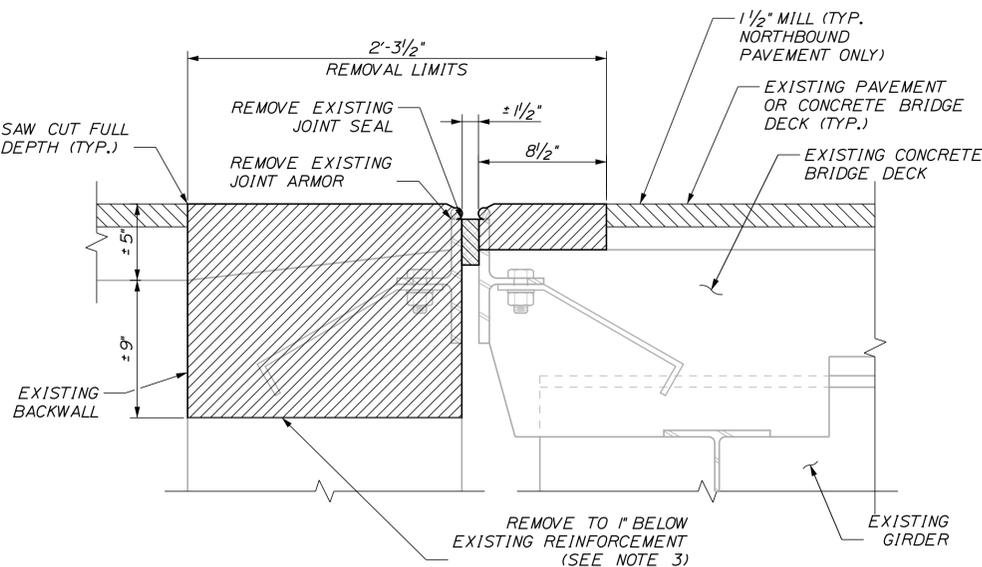
DECK PLAN & SECTION

SHEET NUMBER: S-01
CONTRACT: 2018.08
22 OF 40

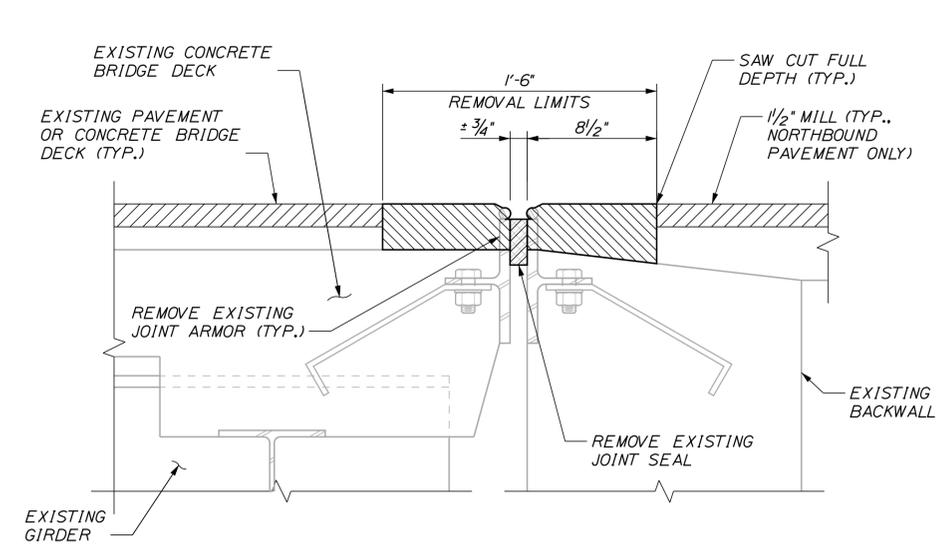
Date: 1/31/2018



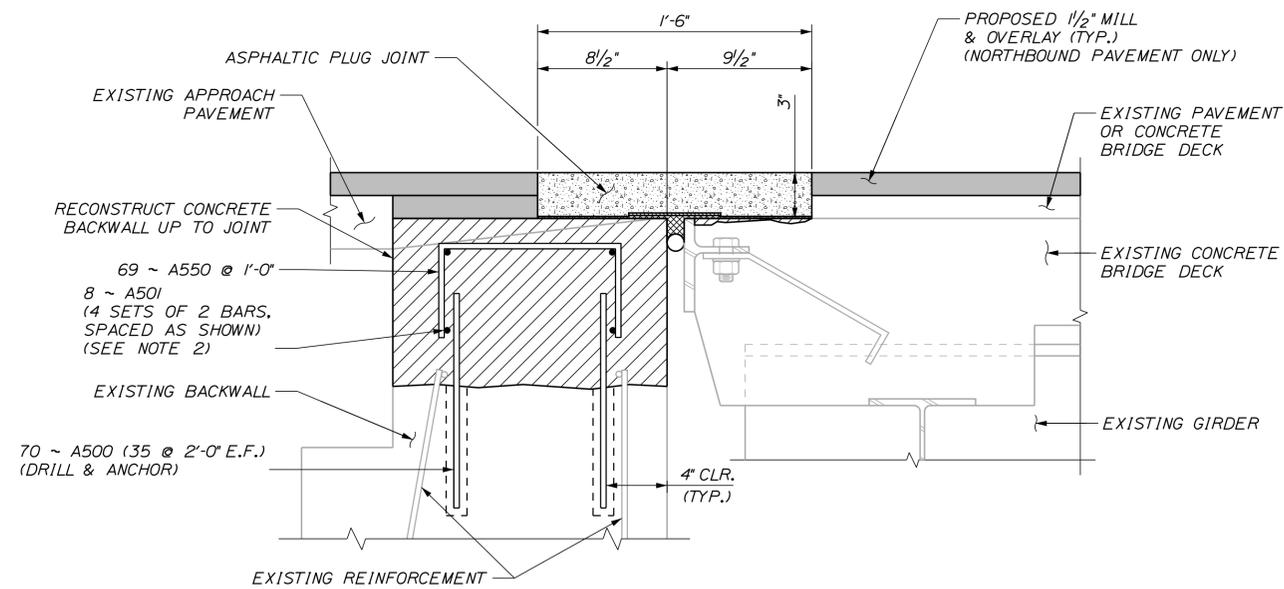
ASPHALTIC PLUG JOINT REMOVAL SECTION
2" = 1'-0"



BACKWALL & ARMORED JOINT REMOVAL TYPICAL SECTION
2" = 1'-0"

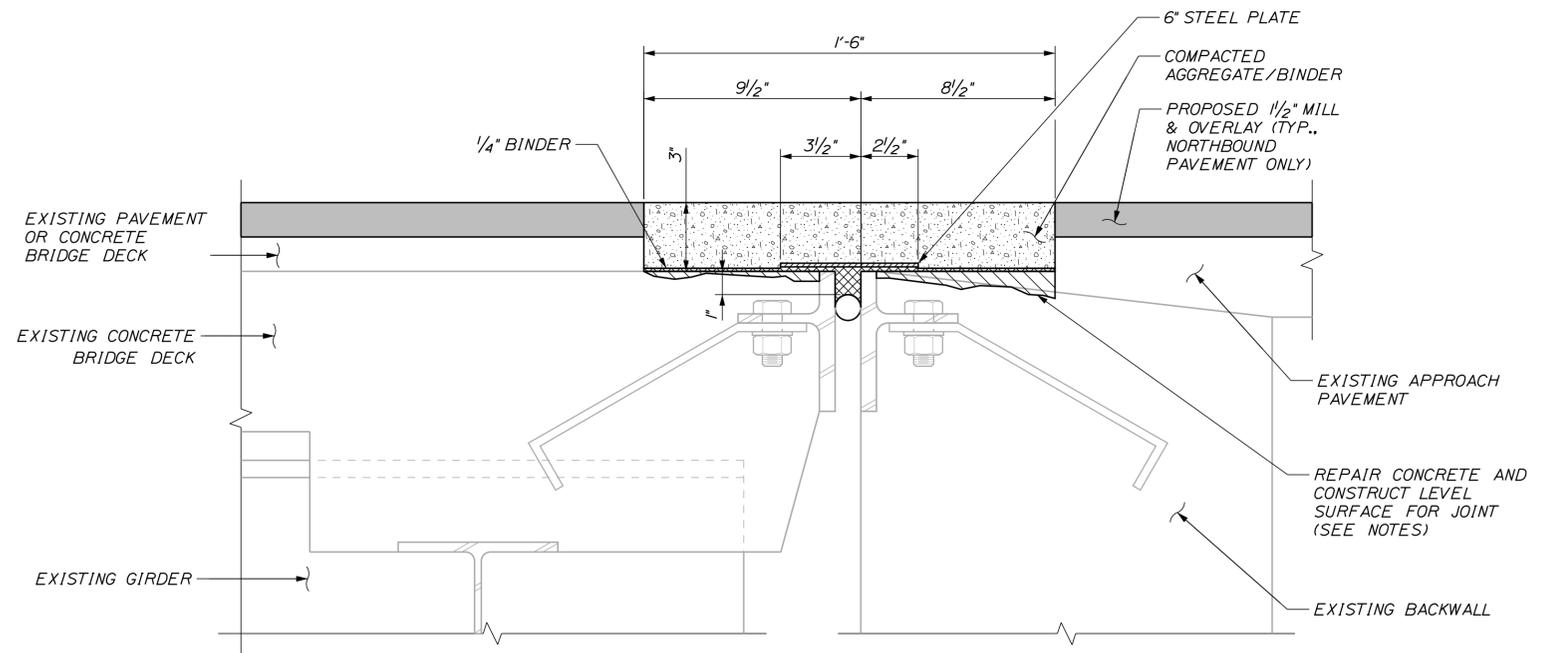


ARMORED JOINT REMOVAL TYPICAL SECTION
2" = 1'-0"



BACKWALL & JOINT RECONSTRUCTION SECTION
2" = 1'-0"

(FOR DETAILS NOT SHOWN, SEE ASPHALTIC PLUG JOINT TYPICAL SECTION)



ASPHALTIC PLUG JOINT TYPICAL SECTION
3" = 1'-0"

NOTES:

1. FOR REMOVAL AND RECONSTRUCTION NOTES, SEE SHEET "JOINT DETAILS SHEET 2 OF 2"
2. BAR SPLICES AT LIMITS OF EACH PHASES WORK SHALL BE MADE WITH MECHANICAL SPLICES. PAYMENT FOR SPLICES SHALL NOT BE MADE DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO RELATED CONTRACT ITEMS.
3. THE CONTRACTOR IS MADE AWARE THAT A 20'-0" LENGTH OF THE EXISTING TOP OF BACKWALL WAS RECENTLY PATCHED USING POLYSET PLY-KRETE FS. THIS MATERIAL MAY BE UNUSUALLY DIFFICULT TO REMOVE.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	DSM	10/2017	Checked	BLT	12/2017
Drawn	SAM	10/2017	In Charge of	DSM	1/2018

T.Y. Lin International
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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
JOINT DETAILS SHEET 1 OF 2

CONTRACT: 2018.08

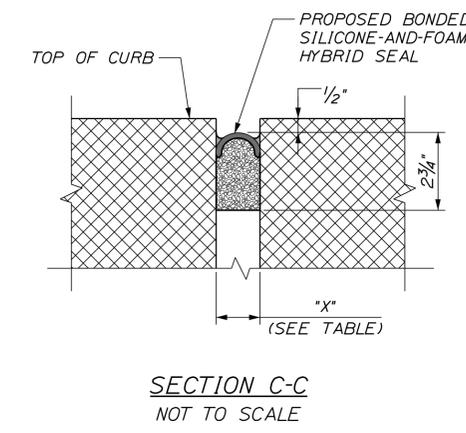
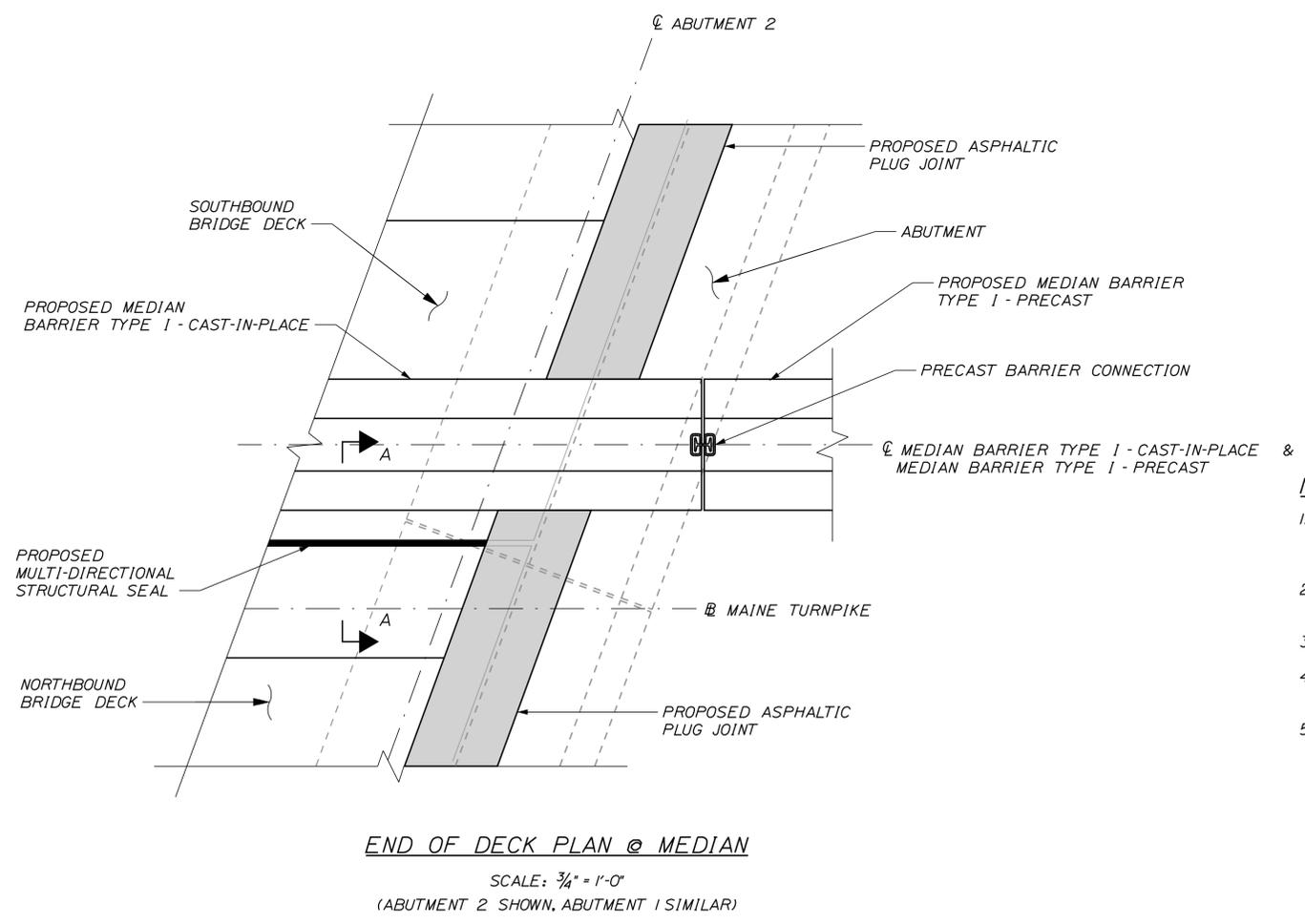
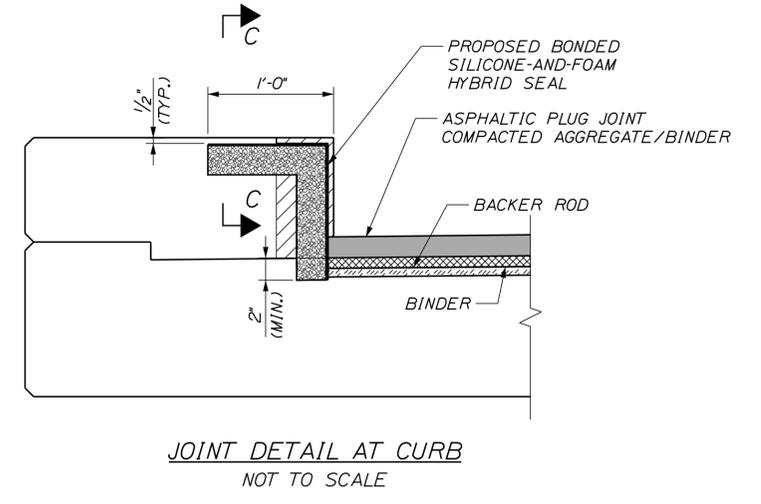
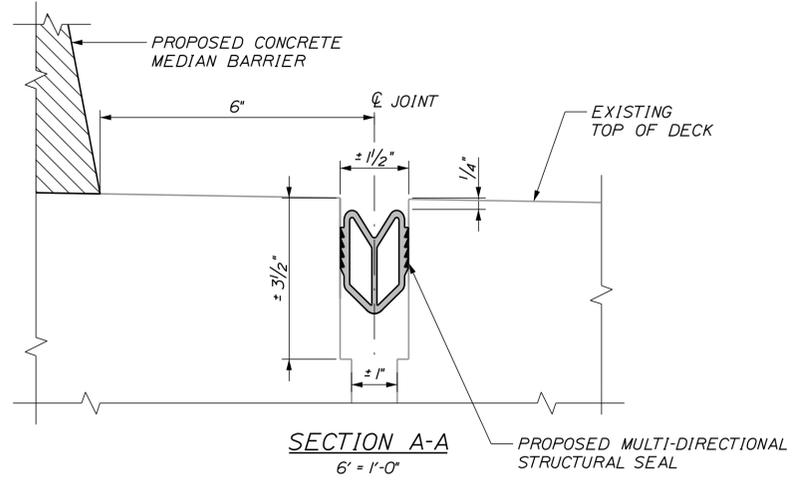
SHEET NUMBER: S-02

23 OF 40

Filename: ... \MSTAXXX_Expansion_Joint_1.dgn

Date: 1/31/2018

Filename: ... \MSTA\XXX_Expansion_Joint_2.dgn



NOTES:

1. CONCRETE REPAIR & LEVELING ON TOP OF DECK AT JOINT SHALL BE INCIDENTAL TO ITEM 520.232, "EXPANSION DEVICE - ASPHALTIC PLUG JOINT". ALL REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH SPECIFICATIONS SECTION 518.
2. CONCRETE REPAIR ON UNDERSIDE OF DECK SHALL BE PAID FOR AS ITEM 518.70, "REPAIR OF OVERHEAD SURFACES < 8 INCH".
3. REINFORCEMENT NOT SHOWN FOR CLARITY.
4. INSTALL SILICONE-AND-FOAM HYBRID SEAL IN CURB PRIOR TO ASPHALTIC PLUG JOINT INSTALLATION.
5. ABUTMENT 1 BACKWALL RECONSTRUCTION SHALL BE PAID FOR UNDER ITEMS 202.121, 502.21, 503.14, AND 503.15.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:

TYLIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

By	Date	By	Date
Designed DSM	10/2017	Checked BLT	12/2017
Drawn SAM	10/2017	In Charge of DSM	1/2018

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THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

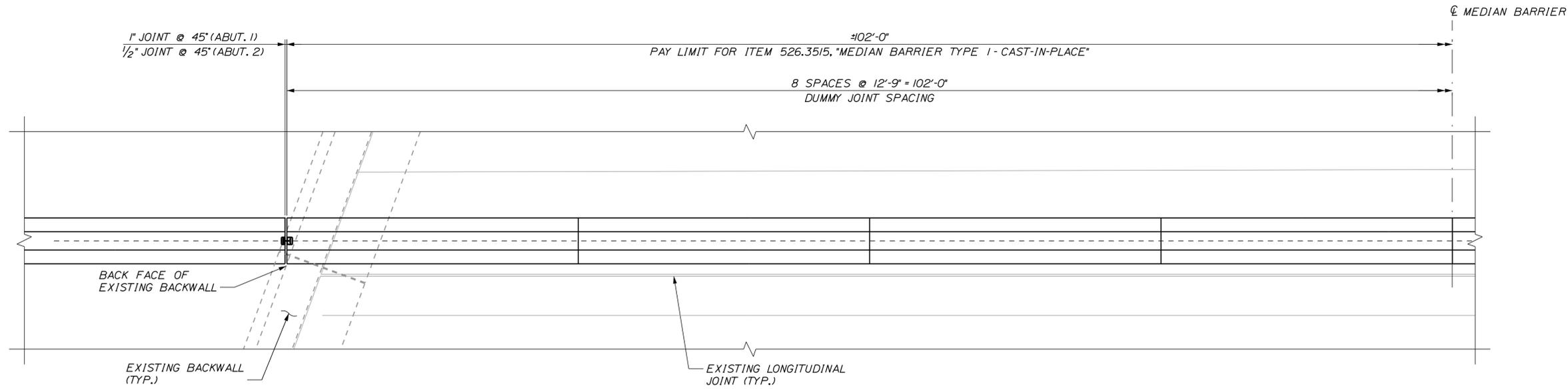
BRIDGE REPAIRS
 DENNETT ROAD OVERPASS

JOINT DETAILS SHEET 2 OF 2

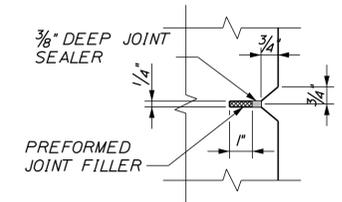
SHEET NUMBER: S-03
 24 OF 40

CONTRACT: 2018.08

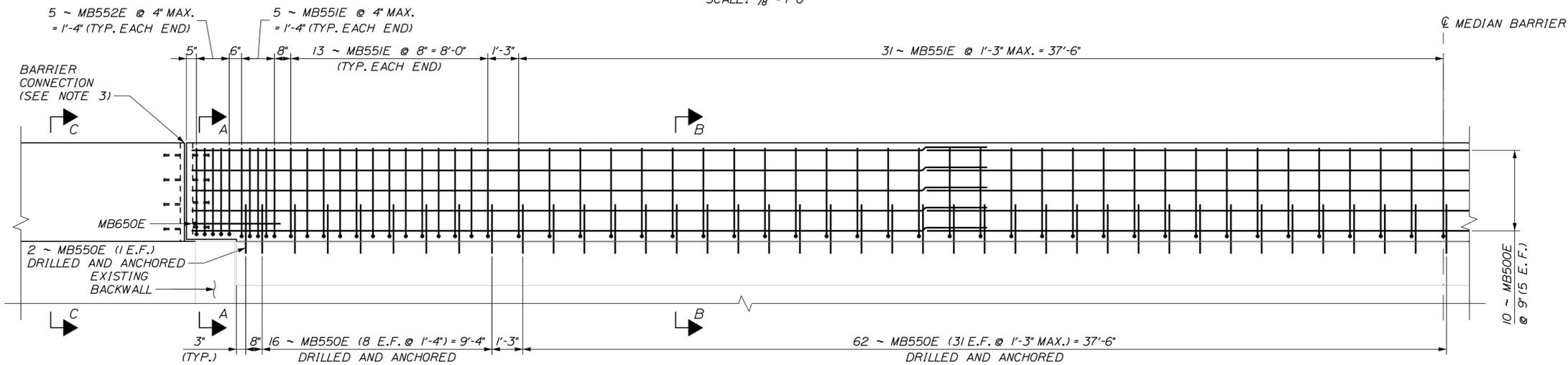
Date: 1/31/2018



MEDIAN BARRIER HALF PLAN VIEW
SCALE: 3/8" = 1'-0"



DUMMY JOINT DETAIL
SCALE: 3" = 1'-0"



MEDIAN BARRIER HALF ELEVATION VIEW
SCALE: 3/8" = 1'-0"

GENERAL NOTES

- MEDIAN BARRIER, INCLUDING ALL CONCRETE, REINFORCEMENT, LABOR AND INCIDENTALS SHALL BE PAID UNDER ITEM 526.3515, "MEDIAN BARRIER TYPE 1 - CAST-IN-PLACE."
- DRILLED AND ANCHORED BARS SHALL BE EMBEDDED USING A EPOXY ANCHORAGE SYSTEM FROM THE MAINEDOT QUALIFIED PRODUCTS LIST. EACH ANCHORED BAR SHALL DEVELOP A MINIMUM OF 4.0 KIPS OF TENSION CAPACITY. FOLLOW THE MANUFACTURER'S DIRECTIONS FOR INSTALLING THE EXPOXIED ANCHOR BARS. ALL ANCHORAGE SHOWN IS THE MINIMUM REQUIRED, AND IS INCIDENTAL TO THE BID ITEM.
- FOR ADDITIONAL DETAILS AND SECTIONS, SEE SHEET "BARRIER DETAILS 2 OF 4"
- RETROFLECTIVE MEDIAN BARRIER DELINEATORS SHALL BE PROVIDED ALONG TOP OF BARRIER WITH SPACING TO MATCH PRECAST BARRIER DELINEATOR SPACINGS OFF THE BRIDGE.

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	BLT	12/2017	Checked	DSM	12/2017
Drawn	SAM	12/2017	In Charge of	DSM	1/2018

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THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
BARRIER DETAILS
SHEET 1 OF 4

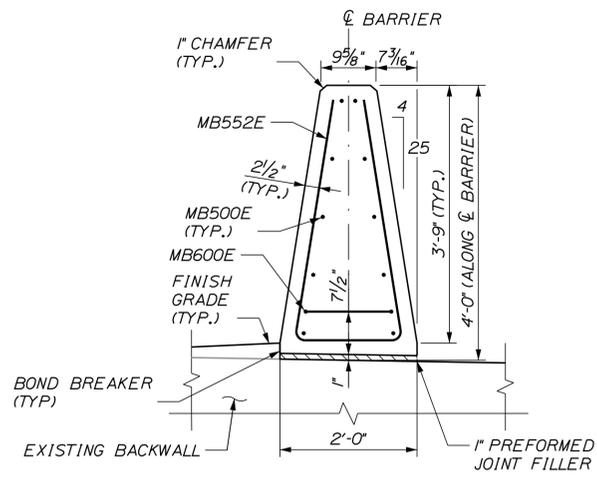
CONTRACT: 2018.08

SHEET NUMBER: S-04

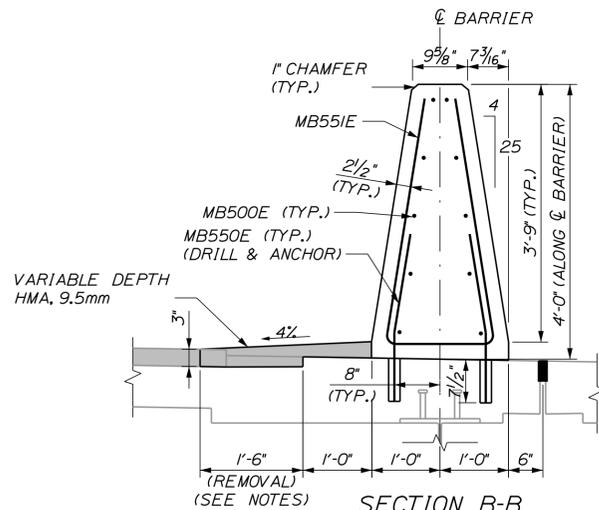
25 OF 40

Filename: ... \MSTA\XXX_Barrier_Details_1.dgn

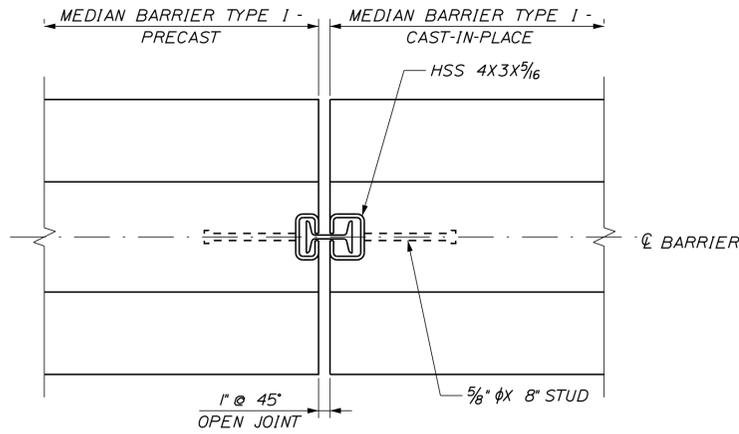
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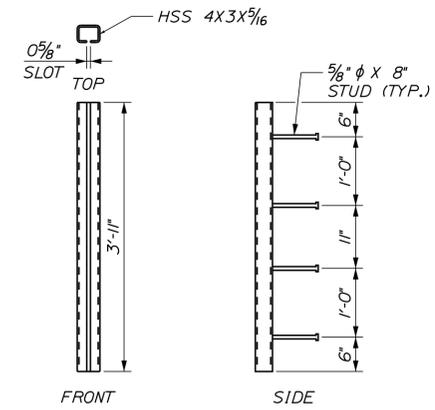
SECTION A-A
SCALE: 3/4" = 1'-0"



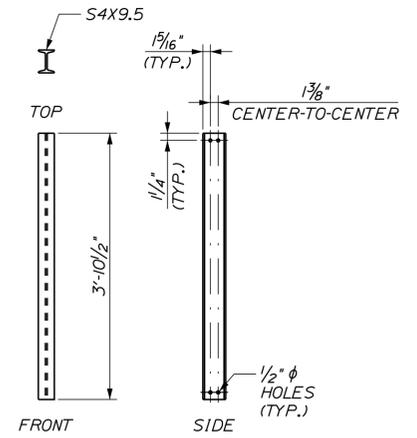
SECTION B-B
SCALE: 3/4" = 1'-0"



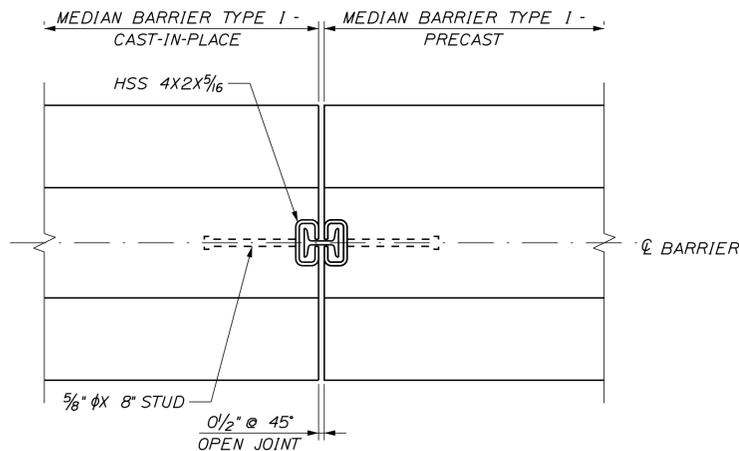
BARRIER CONNECTION DETAIL
ABUTMENT 1 (EXP.)



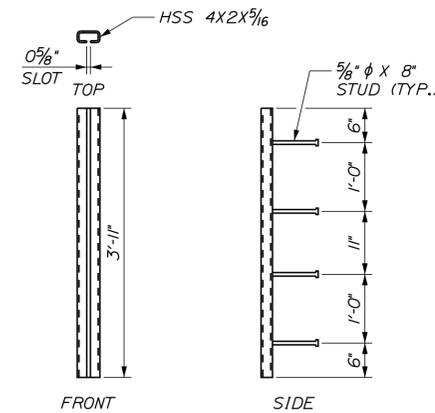
STRUCTURAL TUBE DETAILS
ABUTMENT 1 (EXP.)



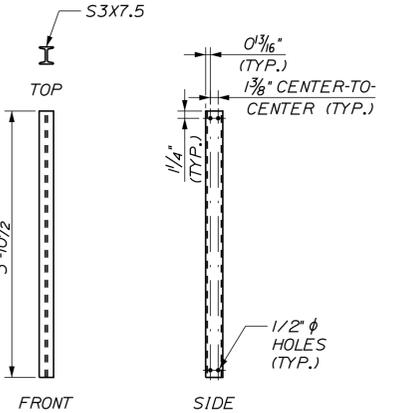
I-BEAM DETAILS
ABUTMENT 1 (EXP.)



BARRIER CONNECTION DETAIL
ABUTMENT 2 (FIXED)



STRUCTURAL TUBE DETAILS
ABUTMENT 2 (FIXED)



I-BEAM DETAILS
ABUTMENT 2 (FIXED)

NOTES:

1. FOR PLAN VIEW, ELEVATION VIEW, AND NOTES FOR MEDIAN BARRIER TYPE 1 - CAST-IN-PLACE, SEE SHEET "BARRIER DETAILS 1 OF 4"
2. FOR ADDITIONAL DETAILS AND NOTES FOR MEDIAN BARRIER TYPE 1 - PRECAST, SEE SHEET "BARRIER DETAILS 3 OF 4"
3. EXISTING BITUMINOUS PAVEMENT AND STRUCTURAL CONCRETE REMOVED FROM SOUTHBOUND BRIDGE SHOULDER SHALL BE PAID UNDER ITEM 202.17, "REMOVING EXISTING STRUCTURAL CONCRETE".

Filename: ... \MSTA\XXX_Barrier_Details_2.dgn

Scale: 3/4" = 1'-0"			
No.	Revision	By	Date

Designed by: TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	BLT	12/2017	Checked	DSM	12/2017
Drawn	SAM	12/2017	In Charge of	DSM	1/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

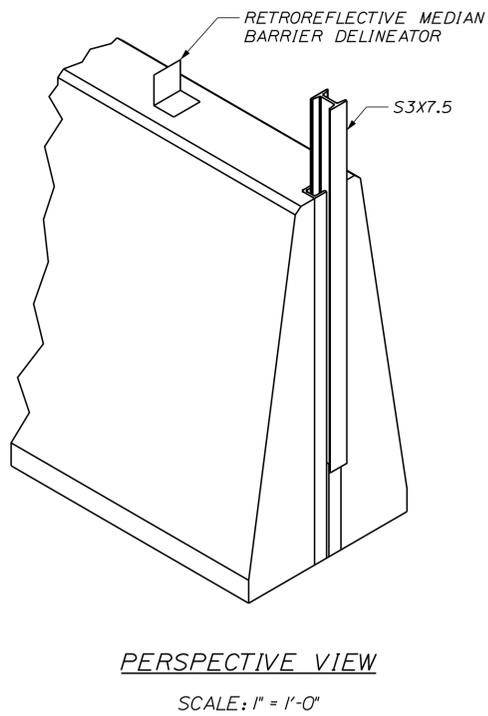
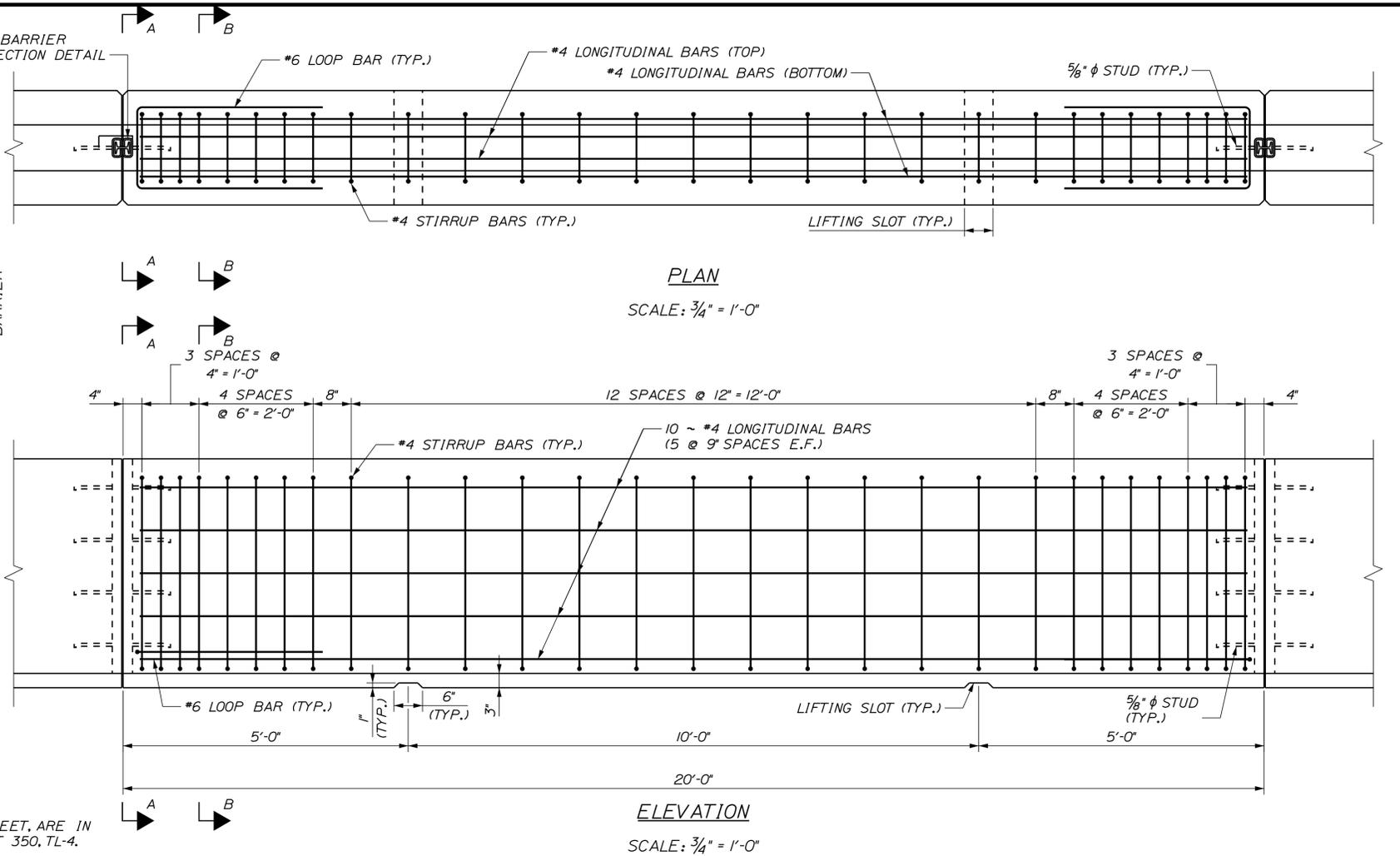
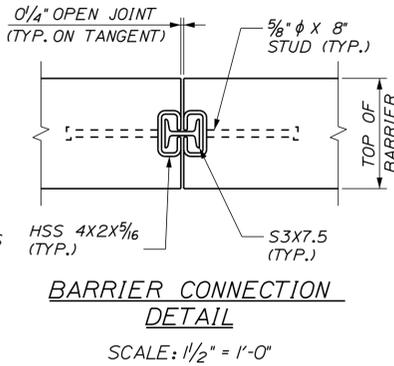
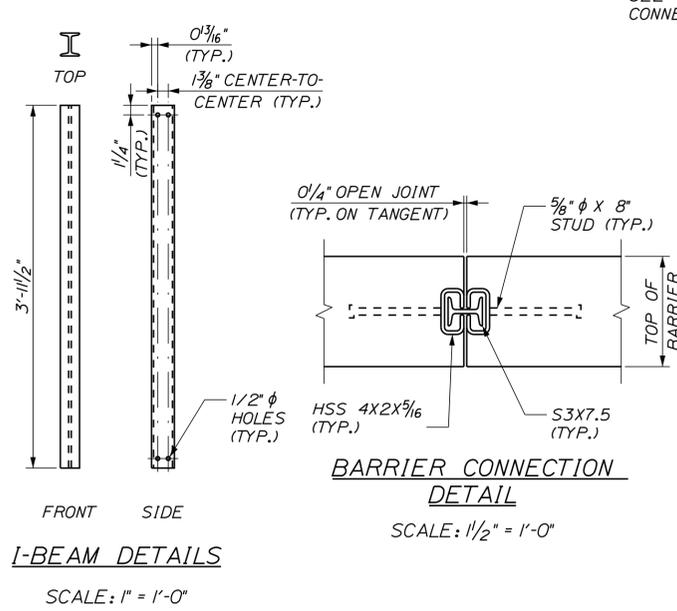
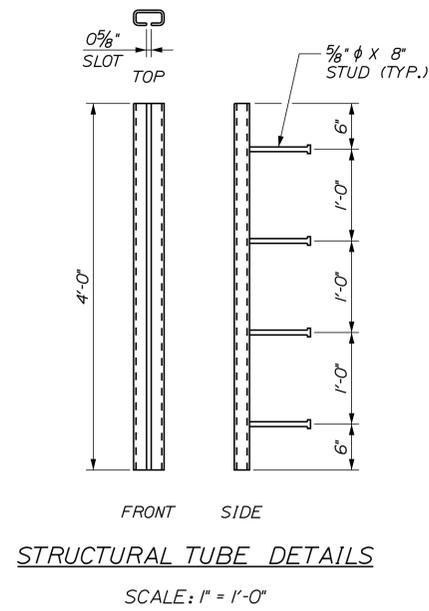
MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
BARRIER DETAILS
SHEET 2 OF 4

SHEET NUMBER: S-05
CONTRACT: 2018.08
26 OF 40

Date: 1/31/2018

Filename: ... \MSTA\XXX_Barrier_Details_3.dgn



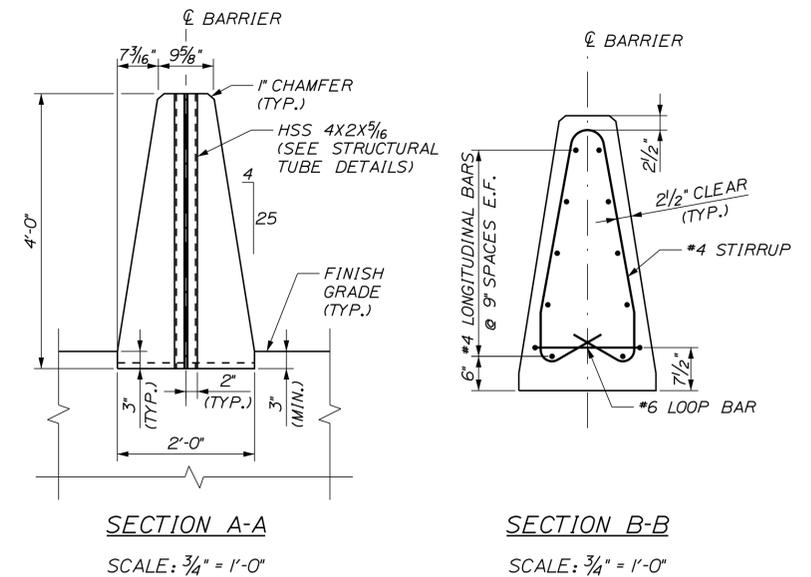
NOTES:

1. THE CONCRETE BARRIER DETAILS, AS SHOWN ON THIS SHEET, ARE IN COMPLIANCE WITH THE REQUIREMENTS OF NCHRP REPORT 350, TL-4.
2. I-BEAMS AND STRUCTURAL TUBES SHALL BE GALVANIZED AFTER FABRICATION.
3. EACH BARRIER UNIT SHALL INCLUDE ONE S3X7.5 AS SHOWN ON THIS PLAN SHEET.
4. SHOP DRAWINGS SHALL INCLUDE REINFORCING SCHEDULE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ANGLE POINTS IN BARRIER.
5. MEDIAN BARRIER SHALL BE PAID FOR UNDER APPROPRIATE 526 ITEMS.
6. BARRIERS SHALL BE LIGHT COLORED CLASS 'P' CONCRETE HAVING A MINIMUM 28 DAY COMPRESSION STRENGTH OF 4,500 PSI. BARRIERS SHALL HAVE A SMOOTH UNIFORM SURFACE FREE OF DEFECTS AND IRREGULARITIES. CASTING DATE SHALL BE SHOWN ON THE BARRIER. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" UNLESS OTHERWISE NOTED.
7. ALL REINFORCING STEEL SHALL BE ASHTO M31 (ASTM-A615) GRADE 60, EPOXY COATED. REINFORCEMENT SHOWN IS THE MINIMUM REQUIRED.
8. CLEAR PROTECTIVE COATING FOR CONCRETE SURFACES SHALL BE APPLIED ON-SITE AND APPROVED BY THE RESIDENT. COATING SHALL BE INCIDENTAL TO THE BARRIER.
9. THREE (3) TOTAL PRECAST BARRIER SEGMENTS (INSTALLED SOUTH OF BRIDGE) AND TWO (2) TOTAL PRECAST BARRIER TRANSITIONS (ONE EACH NORTH AND SOUTH OF BRIDGE) ARE REQUIRED.
10. PRECAST BARRIER AND TRANSITION SEGMENTS SHALL BE INSTALLED TANGENT TO THE CAST-IN-PLACE BARRIER INSTALLED ON THE BRIDGE. FOR BARRIER SETTING ELEVATIONS, SEE SHEET "GENERAL PLAN".

LEGEND:

E.F. = EACH FACE
N.F. = NEAR FACE
F.F. = FAR FACE

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



Scale: AS NOTED			
No.	Revision	By	Date

Designed by: TYLIN INTERNATIONAL			
CONSULTANT PROJECT MANAGER: Heath Cowan			
	By	Date	
	By	Date	
	By	Date	

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FAX: (207) 781-4753

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

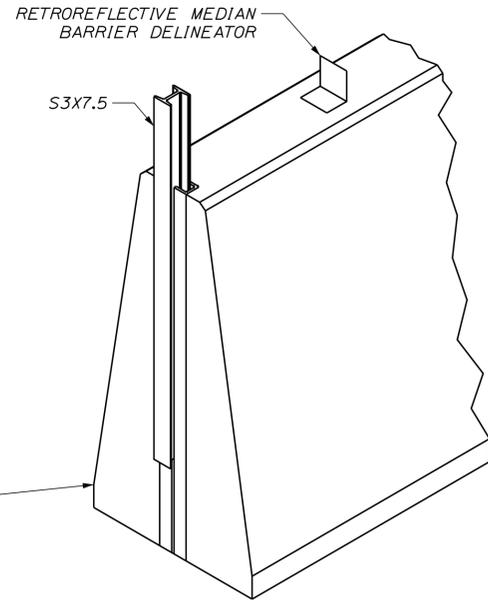
BRIDGE REPAIRS
DENNETT ROAD OVERPASS
BARRIER DETAILS 3 OF 4

SHEET NUMBER: S-06
CONTRACT: 2018.08
27 OF 40

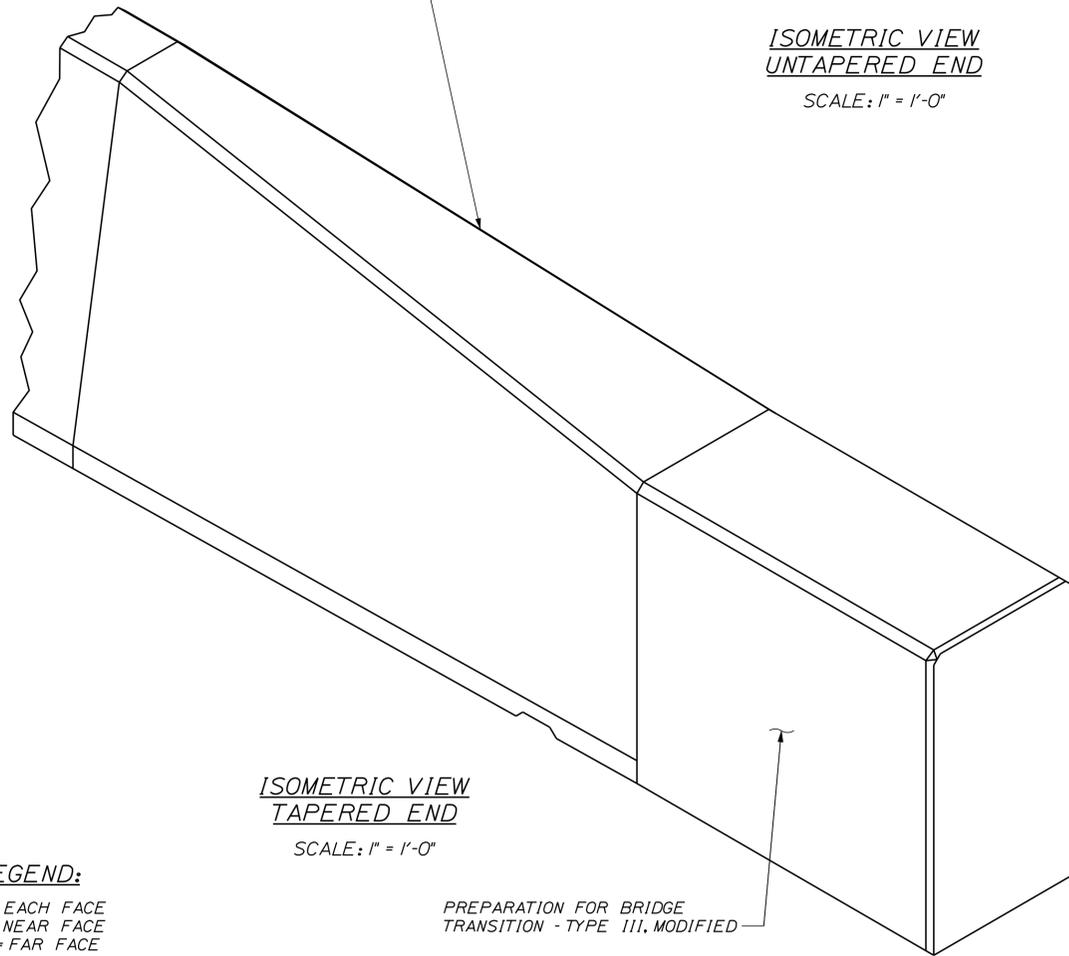
Date: 1/31/2018

Filename: ... \MSTA\XXX_Barrier_Details_4.dgn

NOTE:
FOR ADDITIONAL DETAILS AND NOTES,
SEE SHEET "BARRIER DETAILS 3 OF 4".



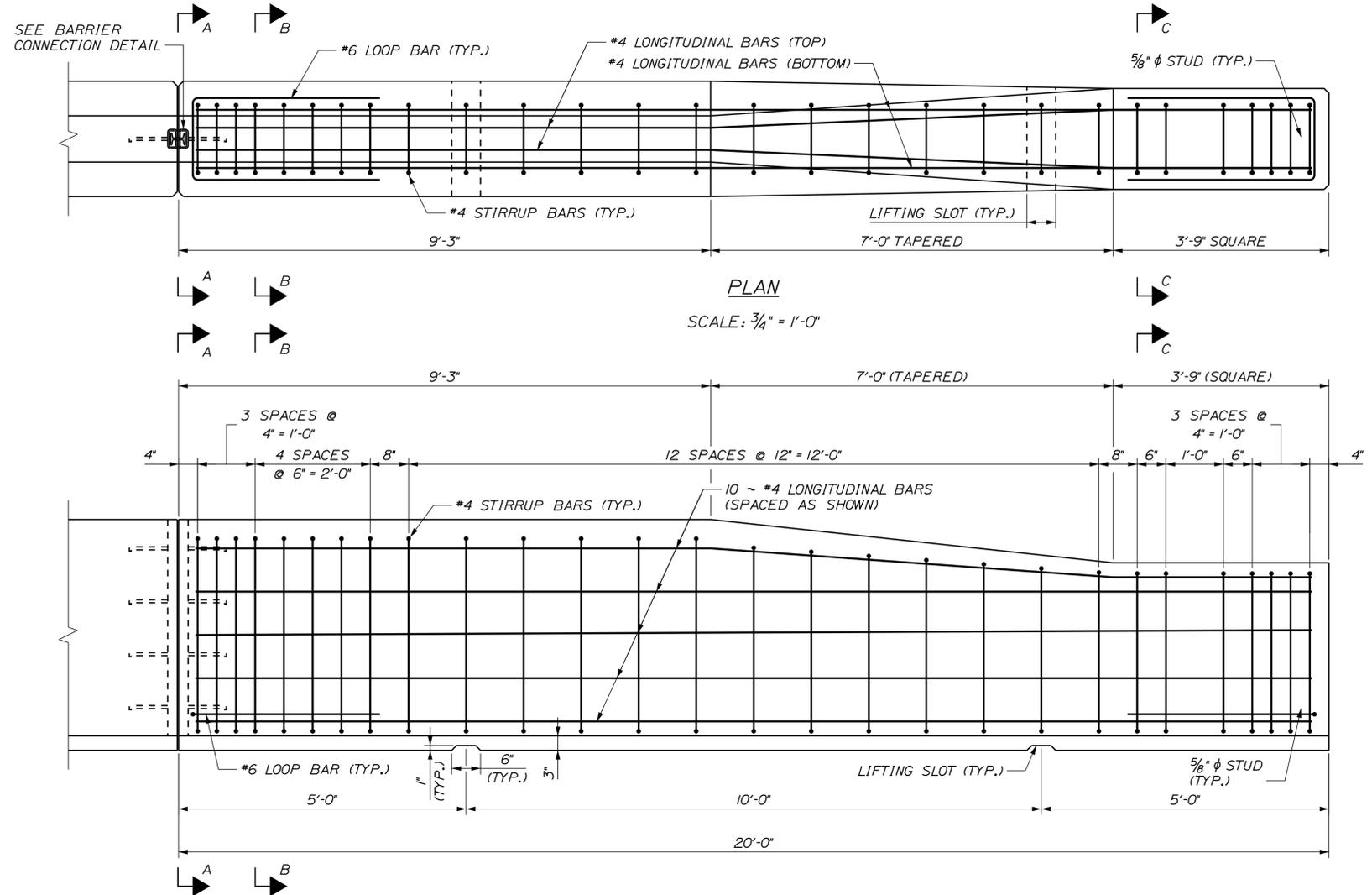
**ISOMETRIC VIEW
UNTAPERED END**
SCALE: 1" = 1'-0"



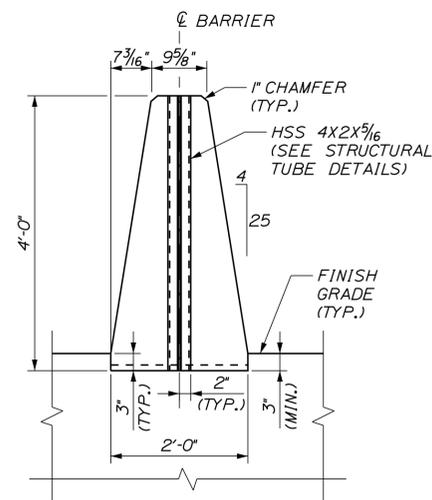
**ISOMETRIC VIEW
TAPERED END**
SCALE: 1" = 1'-0"

LEGEND:
E.F. = EACH FACE
N.F. = NEAR FACE
F.F. = FAR FACE

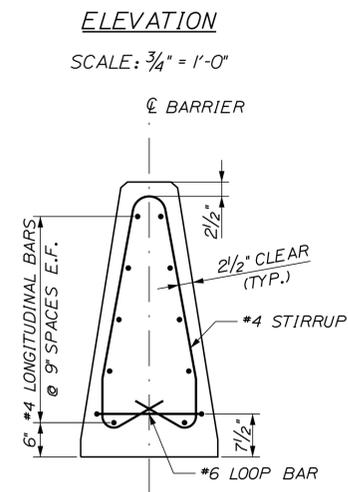
PREPARATION FOR BRIDGE
TRANSITION - TYPE III, MODIFIED



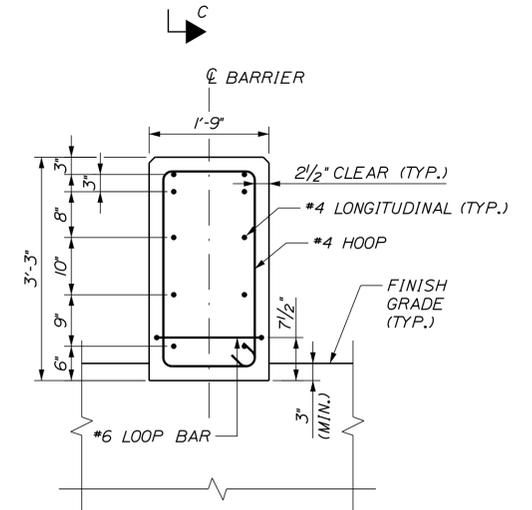
PLAN
SCALE: 3/4" = 1'-0"



SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"



SECTION C-C
SCALE: 3/4" = 1'-0"

Scale: AS NOTED			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	BLT	1/2018	Checked	DSM	1/2018
Drawn	BLT	1/2018	In Charge of	DSM	1/2018

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**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
BARRIER DETAILS 4 OF 4

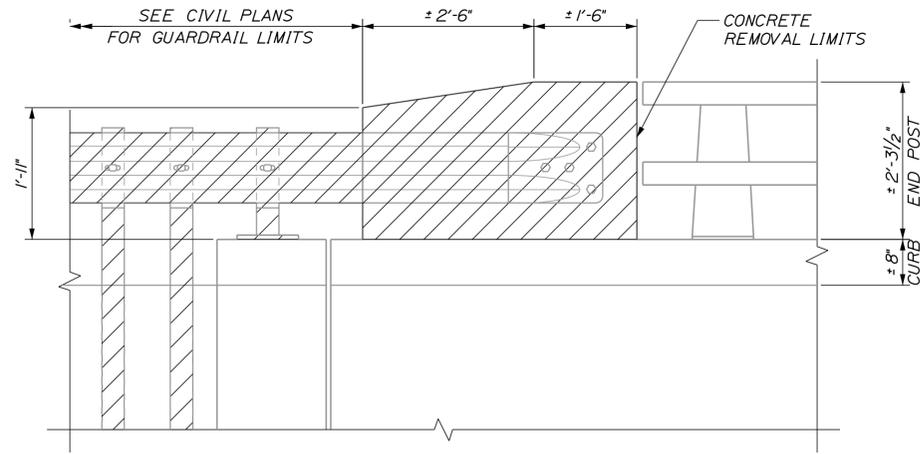
CONTRACT: 2018.08

SHEET NUMBER: S-07

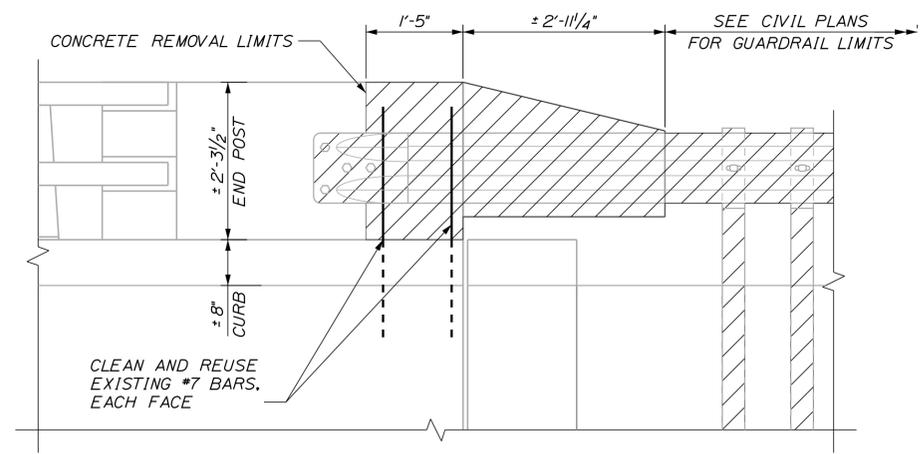
28 OF 40

Date: 1/31/2018

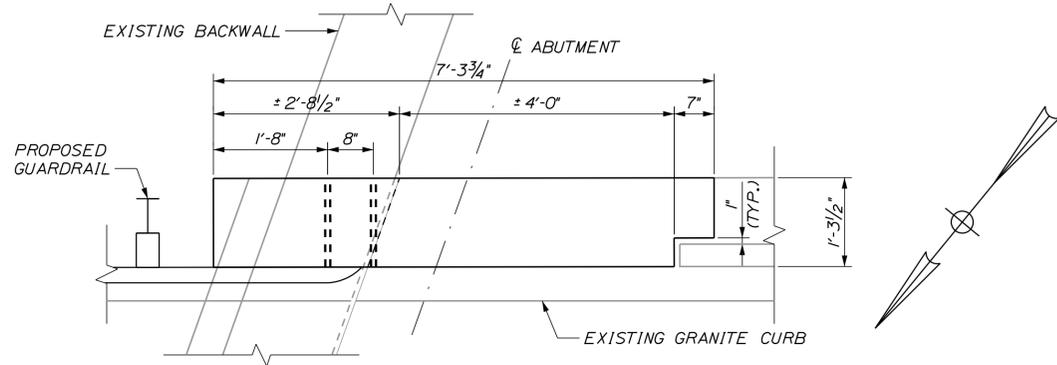
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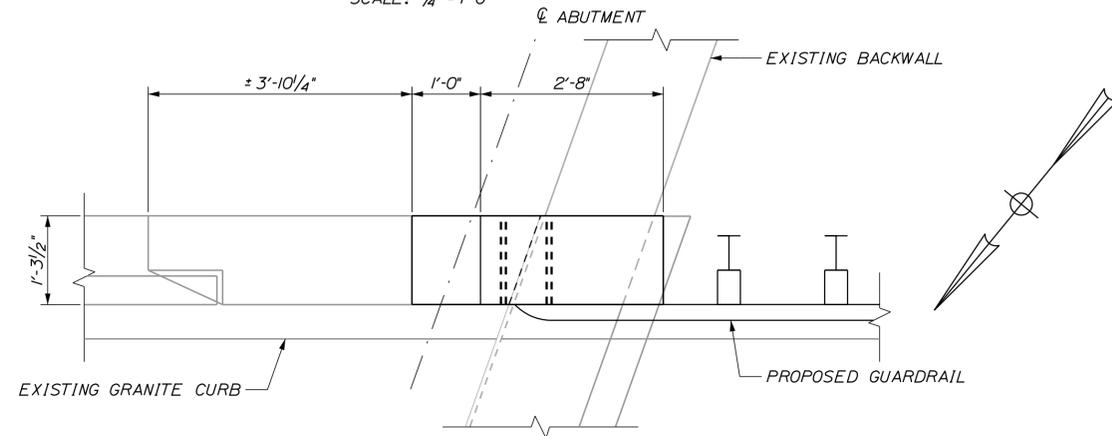
TRAILING END REMOVAL - ELEVATION
SCALE: 3/4" = 1'-0"



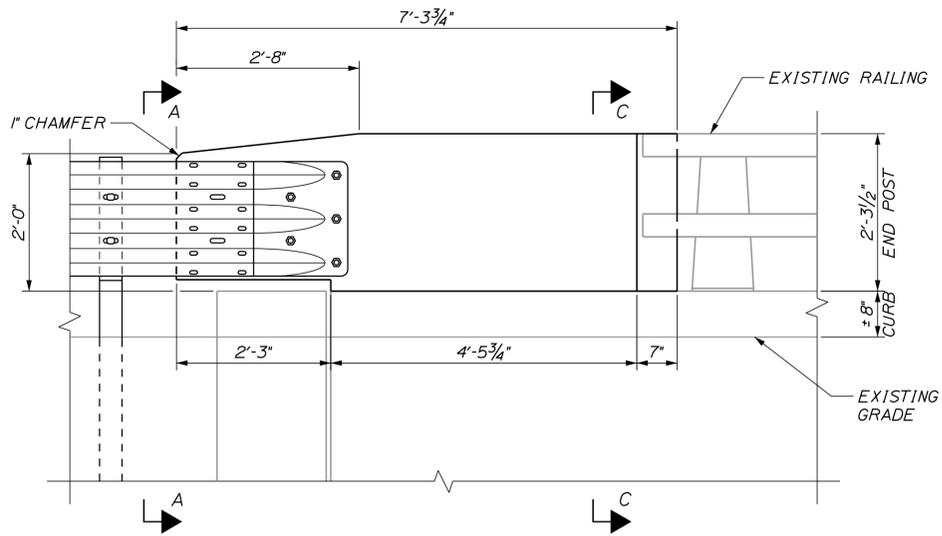
LEADING END REMOVAL - ELEVATION
SCALE: 3/4" = 1'-0"



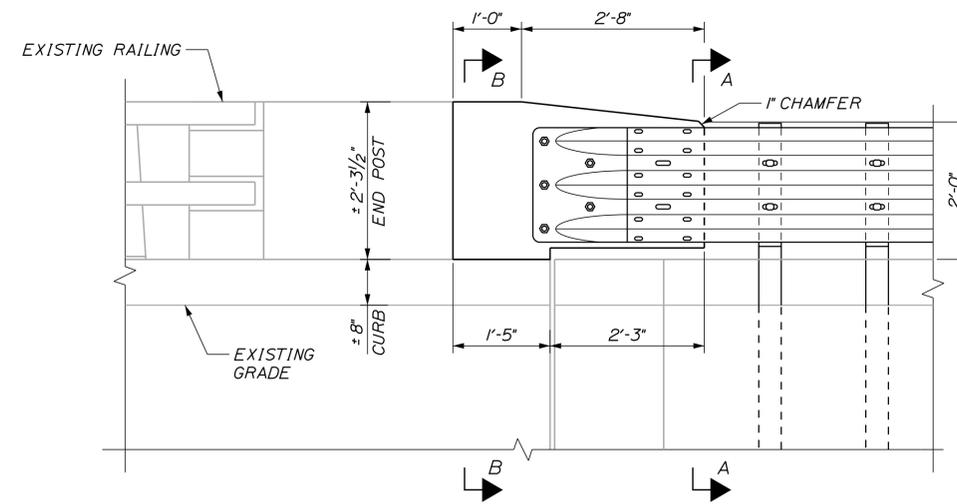
TRAILING END - PLAN
SCALE: 3/4" = 1'-0"



LEADING END - PLAN
SCALE: 3/4" = 1'-0"



TRAILING END - ELEVATION
SCALE: 3/4" = 1'-0"



LEADING END - ELEVATION
SCALE: 3/4" = 1'-0"

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	DSM	10/2017	Checked	BLT	10/2017
Drawn	SAM	10/2017	In Charge of	DSM	1/2018

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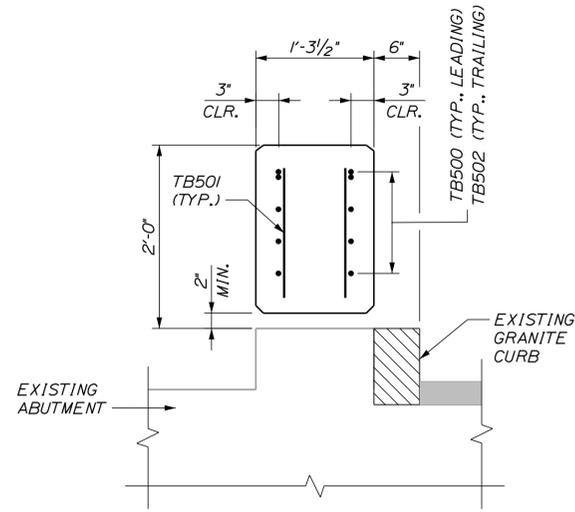
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

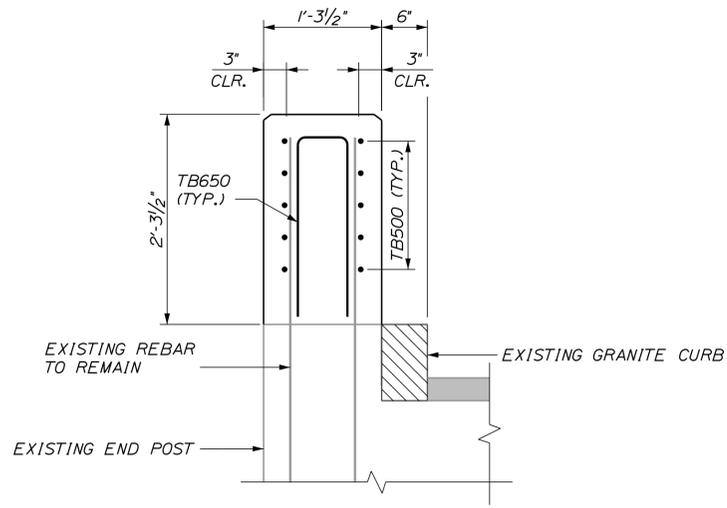
BRIDGE REPAIRS
DENNETT ROAD OVERPASS
END POST DETAILS
SHEET 1 OF 2

SHEET NUMBER: S-08
CONTRACT: 2018.08
29 OF 40

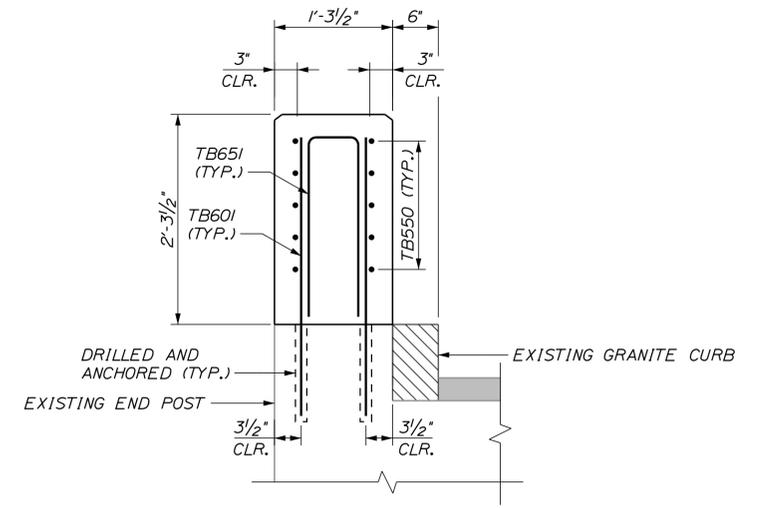
Date: 1/31/2018



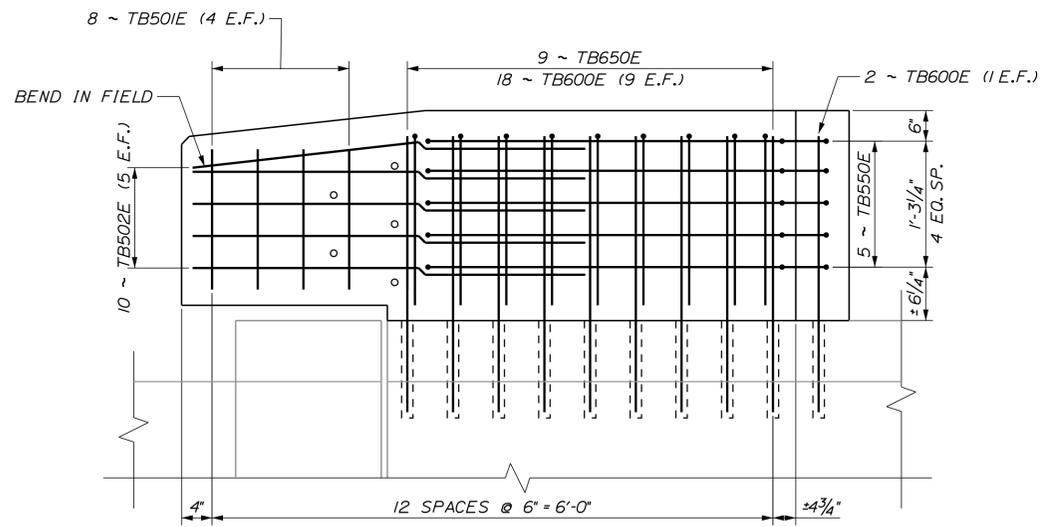
SECTION A-A
SCALE: 1" = 1'-0"



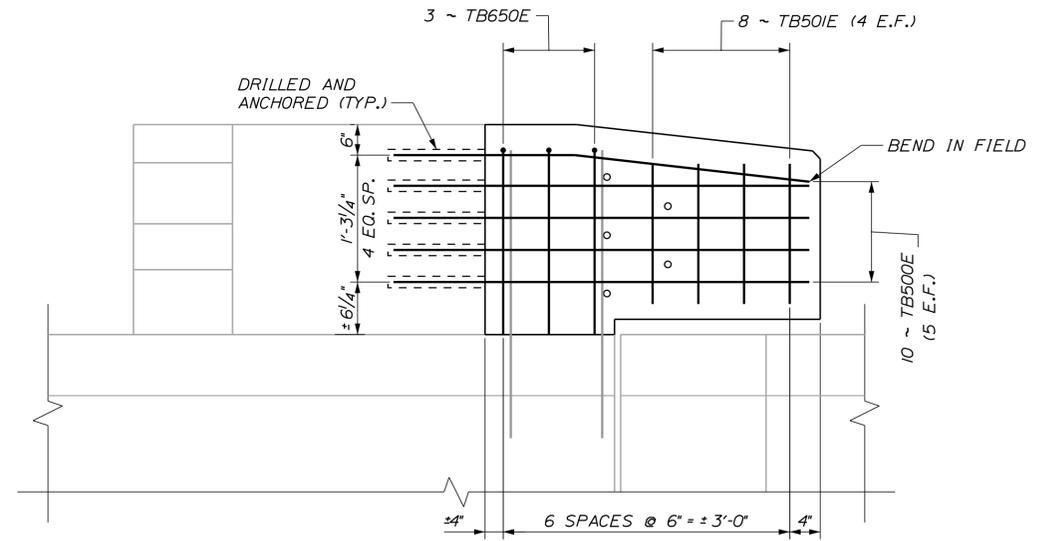
SECTION B-B
SCALE: 1" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"



TRAILING END REINFORCEMENT - ELEVATION
SCALE: 1" = 1'-0"



LEADING END REINFORCEMENT - ELEVATION
SCALE: 1" = 1'-0"

Filename: ... \MSTA\XXX_EndPost_Details_2.dgn

Scale: AS NOTED			
No.	Revision	By	Date

Designed by: TYLIN INTERNATIONAL			
CONSULTANT PROJECT MANAGER: Heath Cowan			
	By	Date	
	By	Date	
	By	Date	

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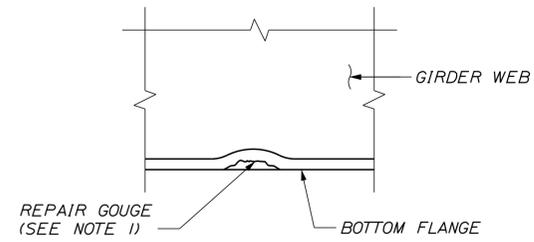
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
END POST DETAILS
SHEET 2 OF 2

SHEET NUMBER: S-09
CONTRACT: 2018.08
30 OF 40

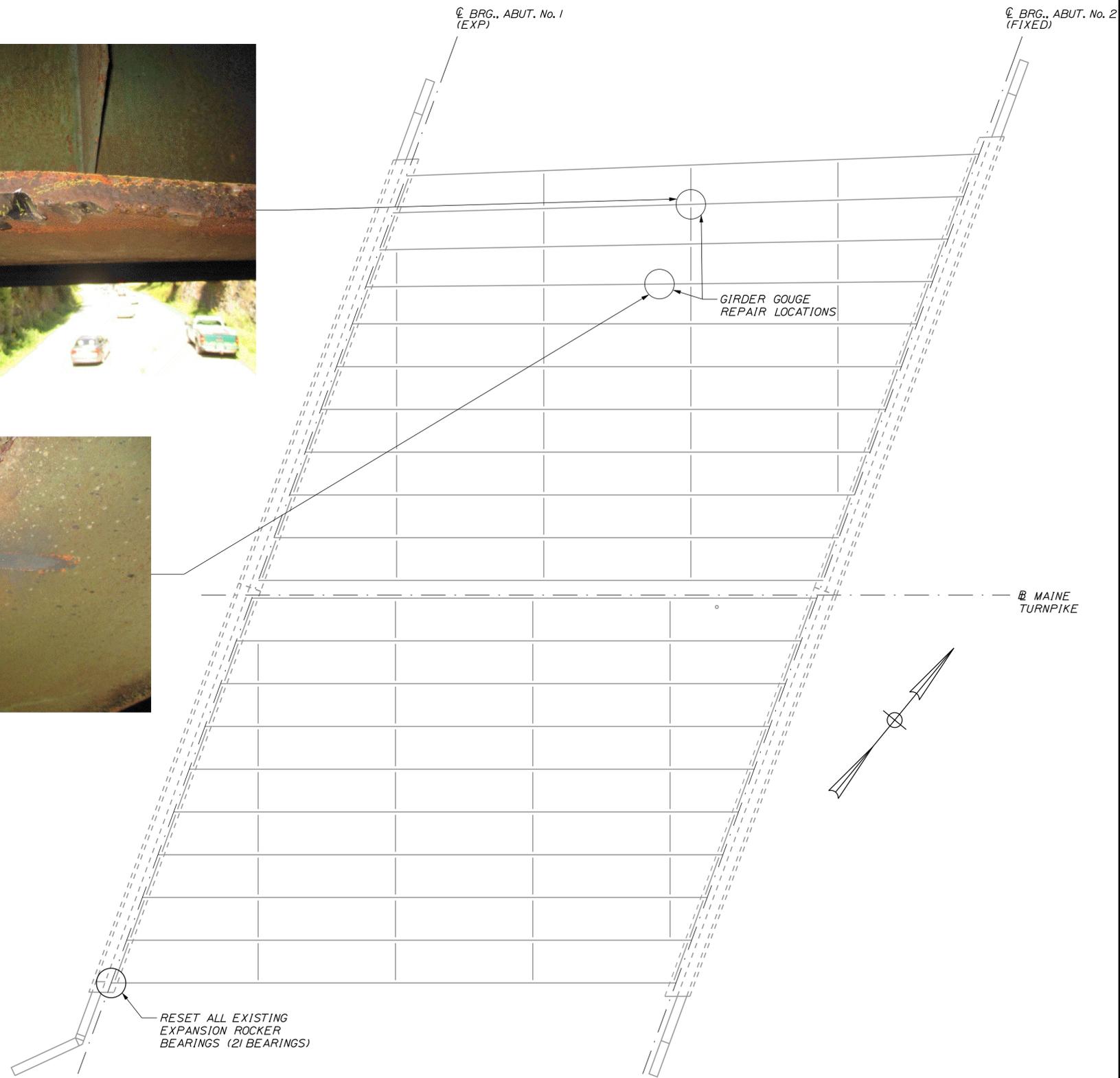
Date: 1/31/2018



GIRDER GOUGE REPAIR DETAIL
NOT TO SCALE

NOTES:

1. "STRUCTURAL STEEL REPAIR" INCLUDES GRINDING BOTTOM FLANGE GOUGES SMOOTH USING A METHOD APPROVED BY THE RESIDENT AND FIELD COATING IN ACCORDANCE WITH SPECIAL PROVISION 506.



RESET ALL EXISTING EXPANSION ROCKER BEARINGS (2) BEARINGS)

FRAMING PLAN
SCALE: 3/32" = 1'-0"

Filename: ... \MSTA\XXX_Steel_Repairs.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	DSM	9/2017	Checked	NLB	10/2017
Drawn	ECW	9/2017	In Charge of	DSM	1/2018

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MEMORIAL HIGHWAY**

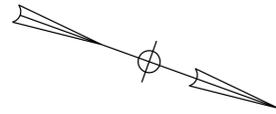
MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
STEEL REPAIR DETAILS

SHEET NUMBER: S-10
CONTRACT: 2018.08
31 OF 40

Date: 1/31/2018

Filename: ...XXX_Abutment 1 Elevation.dgn



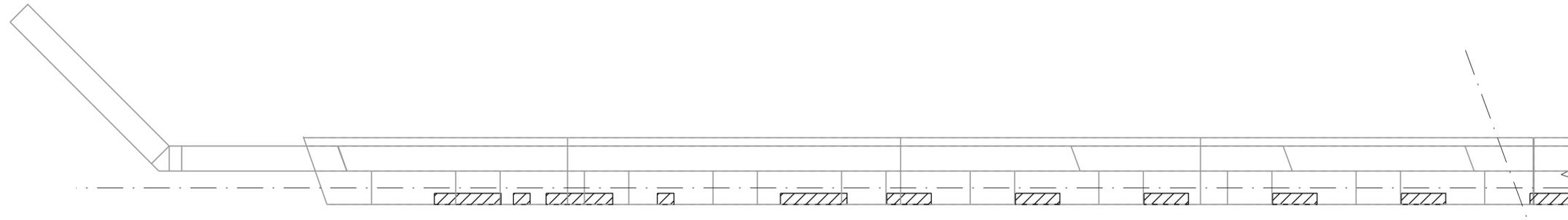
ABUTMENT 1 ESTIMATED QUANTITY OF REPAIRS	
	AREA
ABUTMENT REPAIRS	270 S.F.
EPOXY INJECTED CRACK REPAIRS	5 L.F.

NOTE:

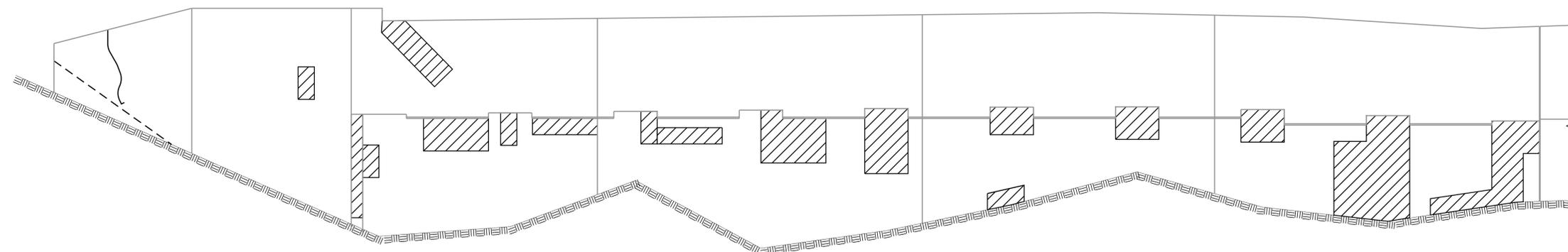
- FOR PROCEDURAL NOTES SEE SHEET "ESTIMATED QUANTITIES & GENERAL NOTES"

LEGEND:

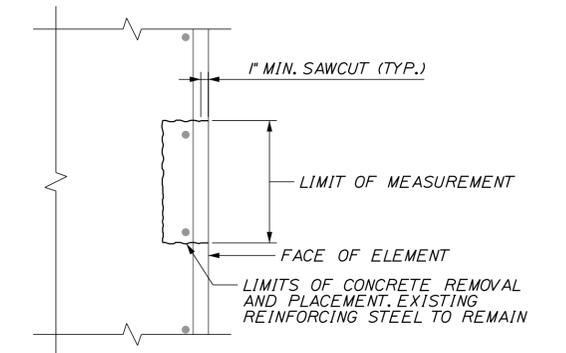
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- LIMIT OF EPOXY INJECTED CRACK REPAIR
- EXISTING CONCRETE
- EXISTING AND PROPOSED GROUND



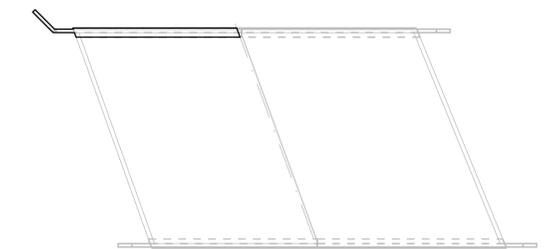
PLAN
NOT TO SCALE



ELEVATION
NOT TO SCALE



CONCRETE REPAIR DETAIL
NOT TO SCALE



LOCATION PLAN

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by: TY-LIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	BLT	10/2017	Checked	DSM	10/2017
Drawn	ECW	10/2017	In Charge of	DSM	1/2018

T.Y. Lin International
12 Northbrook Drive
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Falmouth, Maine 04105
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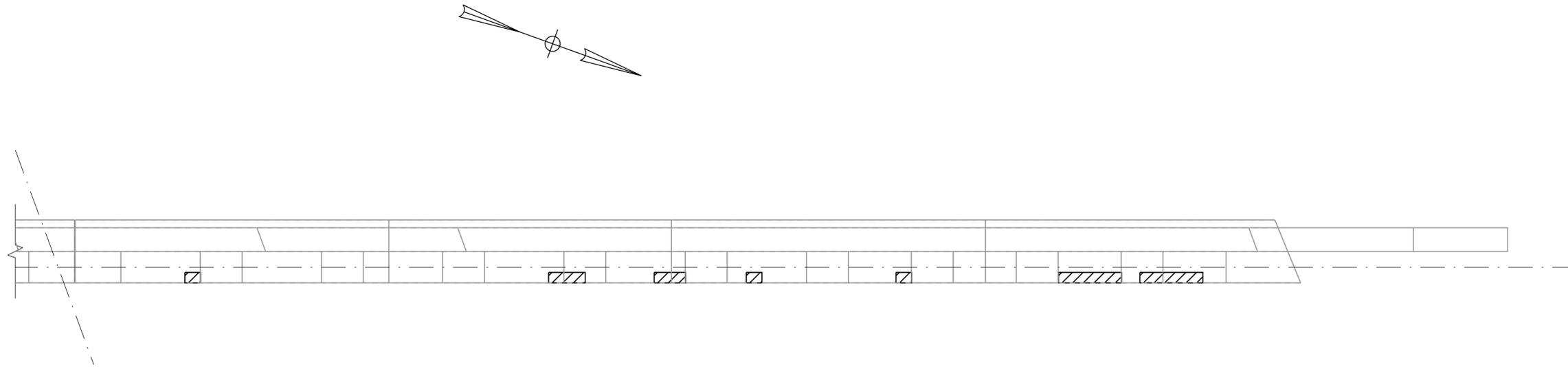
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
ABUTMENT REPAIRS
ABUTMENT 1 - NORTHBOUND

SHEET NUMBER: S-11
CONTRACT: 2018.08
32 OF 40

Date: 1/31/2018



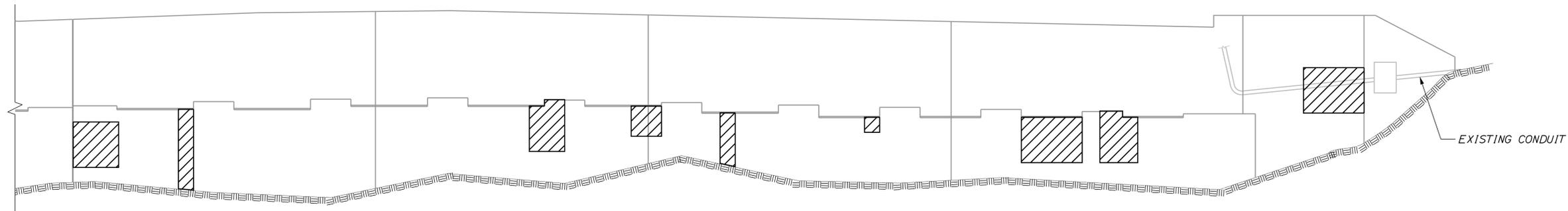
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NOT TO SCALE

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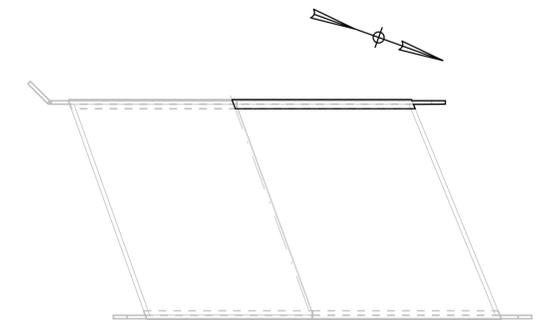
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2. FOR CONCRETE REPAIR DETAILS, SEE SHEET "ABUTMENT REPAIRS ABUTMENT 1 - NORTHBOUND"
3. ELECTRICAL SERVICE IN EXISTING CONDUIT TO REMAIN IN SERVICE DURING CONTRACT.

LEGEND:

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



ELEVATION
NOT TO SCALE



LOCATION PLAN

Filename: ...XXX_Abutment 1 Elevation.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TY-LIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	BLT	10/2017	Checked	DSM	10/2017
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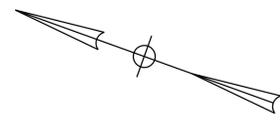
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

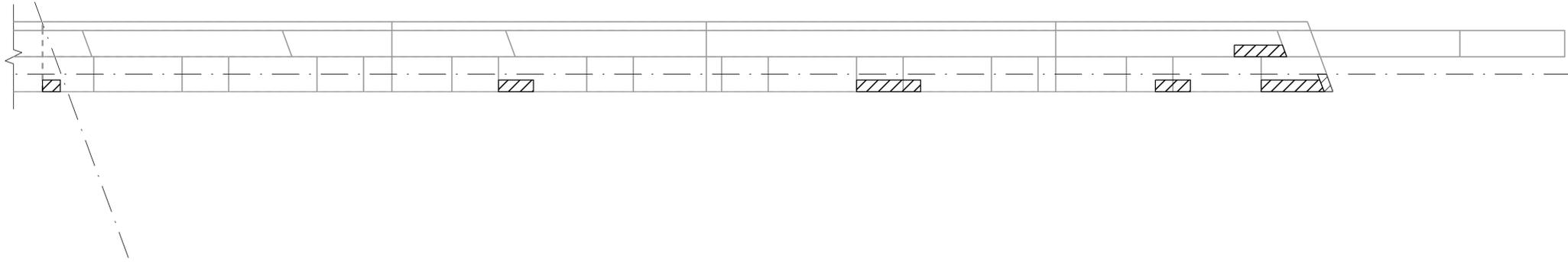
BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 ABUTMENT REPAIRS
 ABUTMENT 1 - SOUTHBOUND

SHEET NUMBER: S-12
 CONTRACT: 2018.08
 33 OF 40

Date: 1/31/2018



ABUTMENT 2 ESTIMATED QUANTITY OF REPAIRS	
	AREA
ABUTMENT REPAIRS	170 S.F.
EPOXY INJECTED CRACK REPAIRS	40 L.F.



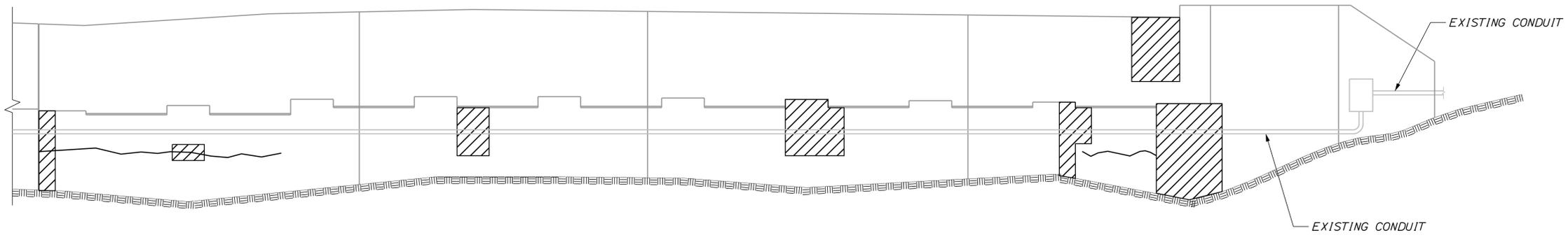
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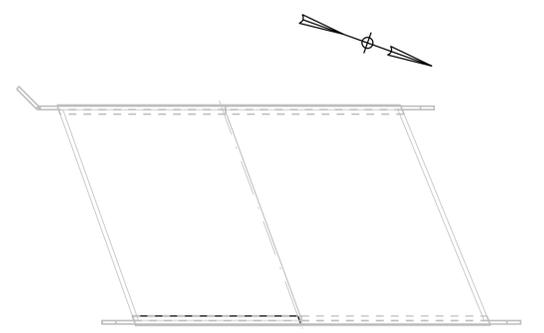
- FOR PROCEDURAL NOTES SEE SHEET "ESTIMATED QUANTITIES & GENERAL NOTES"
- FOR CONCRETE REPAIR DETAILS, SEE SHEET "ABUTMENT REPAIRS ABUTMENT 1 - NORTHBOUND"
- ELECTRICAL SERVICE IN EXISTING CONDUIT TO REMAIN IN SERVICE DURING CONTRACT.

LEGEND:

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



ELEVATION
NOT TO SCALE



LOCATION PLAN

Filename: ...XXX_Abutment 2 Elevation.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	BLT	10/2017	Checked	DSM	10/2017
Drawn	ECW	10/2017	In Charge of	DSM	1/2018

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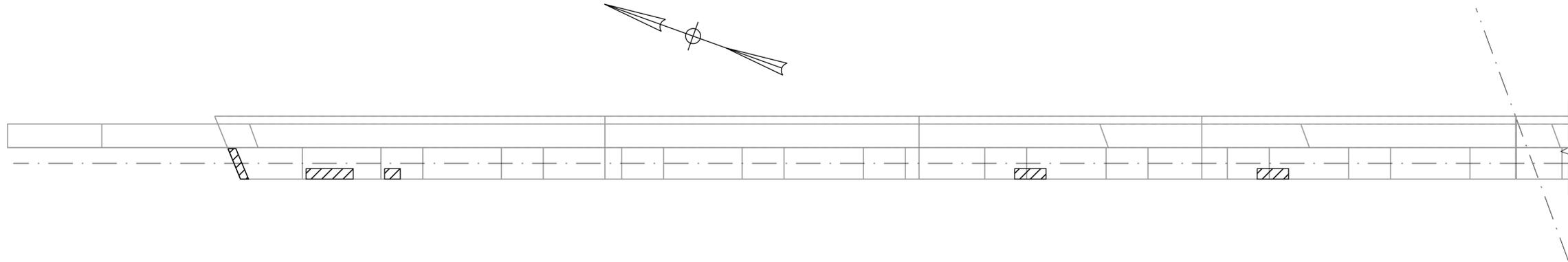
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 ABUTMENT REPAIRS
 ABUTMENT 2 - NORTHBOUND

SHEET NUMBER: S-13
 CONTRACT: 2018.08
 34 OF 40

Date: 1/31/2018



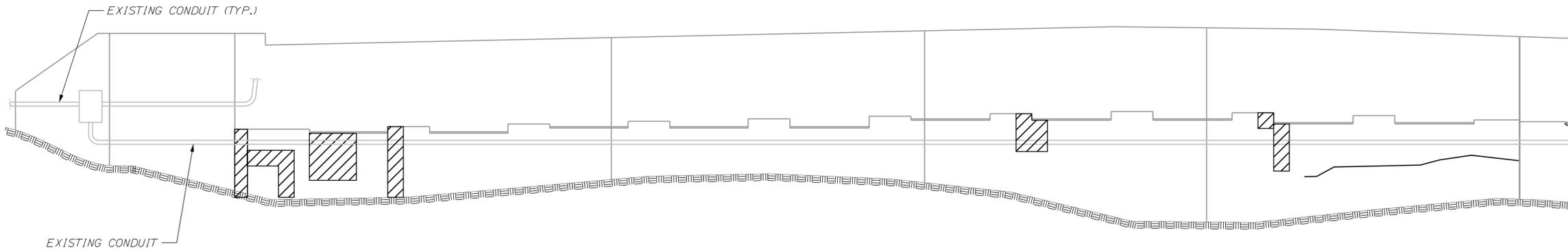
PLAN
NOT TO SCALE

NOTES:

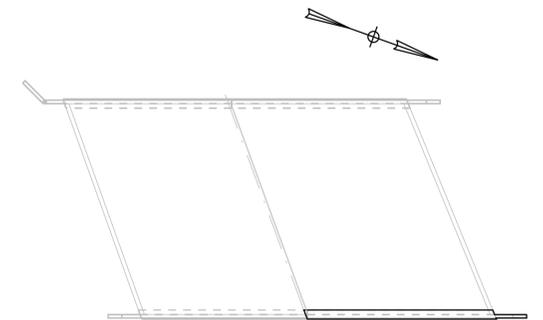
1. FOR PROCEDURAL NOTES SEE SHEET "ESTIMATED QUANTITIES & GENERAL NOTES"
2. FOR CONCRETE REPAIR DETAILS, SEE SHEET "ABUTMENT REPAIRS ABUTMENT 1 - NORTHBOUND"
3. ELECTRICAL SERVICE IN EXISTING CONDUIT TO REMAIN IN SERVICE DURING CONTRACT.

LEGEND:

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



ELEVATION
NOT TO SCALE



LOCATION PLAN

Filename: ...XXX_Abutment 2 Elevation.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	BLT	10/2017	Checked	DSM	10/2017
Drawn	ECW	10/2017	In Charge of	DSM	1/2018

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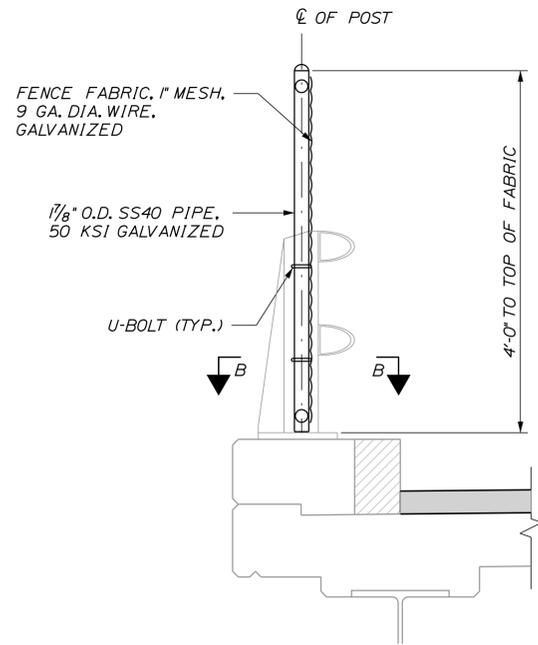
**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Ralph C. Norwood, IV

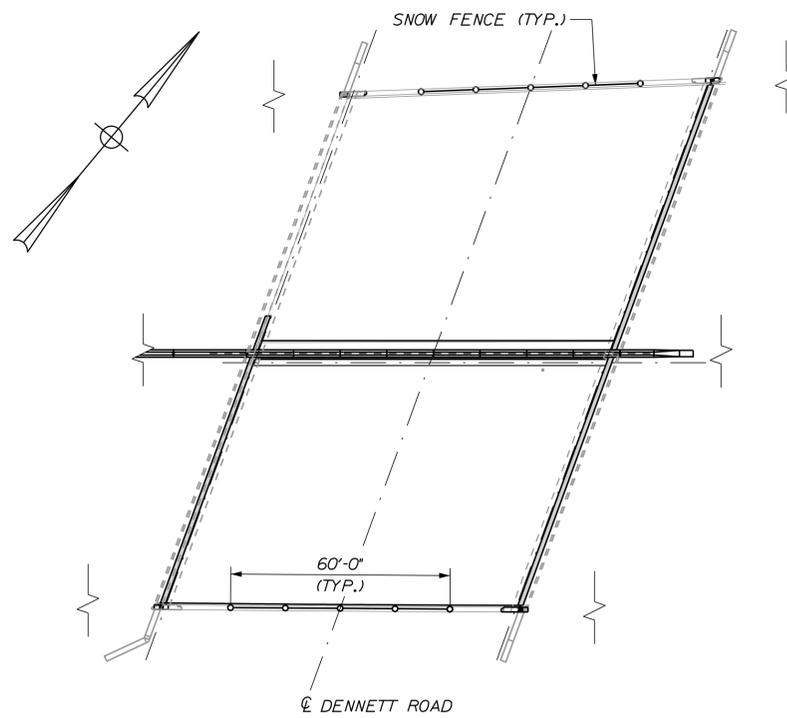
BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 ABUTMENT REPAIRS
 ABUTMENT 2 - SOUTHBOUND

SHEET NUMBER: S-14
 CONTRACT: 2018.08
 35 OF 40

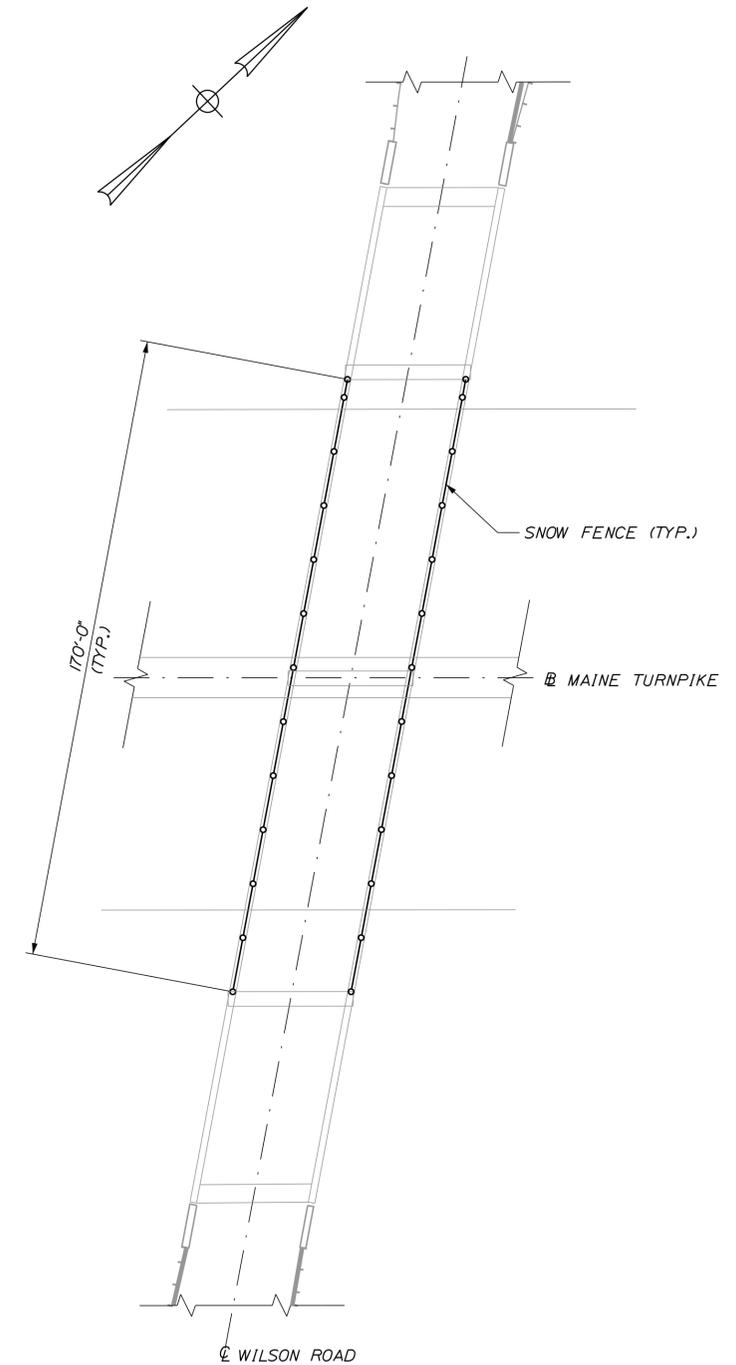
Date: 1/31/2018



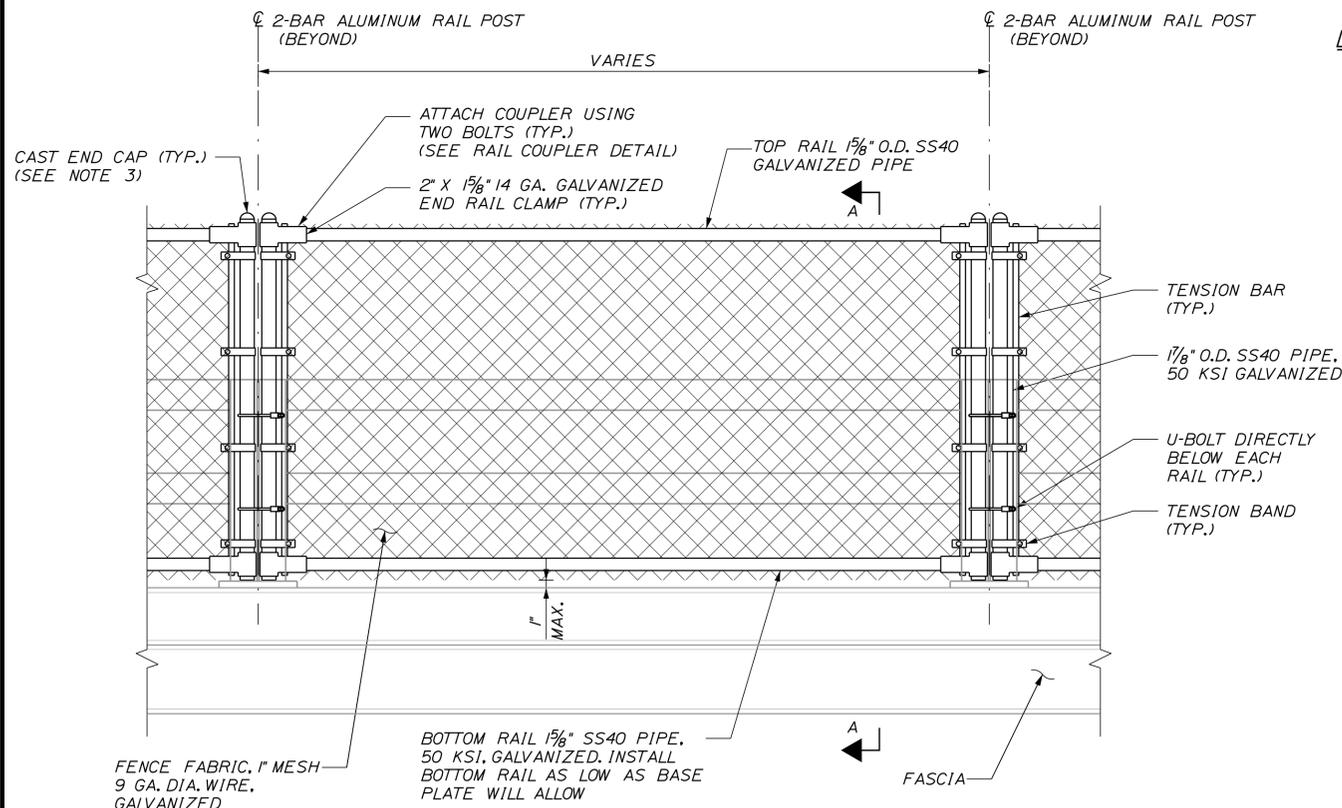
SECTION A-A
1" = 1'-0"



DENNETT ROAD BRIDGE PLAN
1" = 25'-0"



WILSON ROAD BRIDGE PLAN
1" = 25'-0"



SNOW FENCE POST ATTACHMENT
TO 2-BAR ALUMINUM RAIL
1" = 1'-0"

NOTE:
FENCE SHOWN FROM BACK
OF BRIDGE RAIL.

NOTES:

- SEE SNOW FENCE DETAILS SHEET 2 OF 2 FOR SNOW FENCE DETAILS AND SECTION B-B
- EXACT SNOW FENCE EXTENTS SHALL BE DETERMINED BY THE RESIDENT.
- CAST END CAP SHALL BE SECURELY FASTENED. FASTENING METHOD SHALL NOT INCLUDE FASTENERS THAT PROTRUDE TOWARD THE TRAVEL LANES.

Filename: ... \MSTAXXX_Misc_Details_1.dgn

Scale:			
AS NOTED			
No.	Revision	By	Date

Designed by:					
TYLIN INTERNATIONAL					
CONSULTANT PROJECT MANAGER: Heath Cowan					
	By	Date		By	Date
Designed	DSM	10/2017	Checked	NLB	10/2017
Drawn	SAM	10/2017	In Charge of	DSM	1/2018

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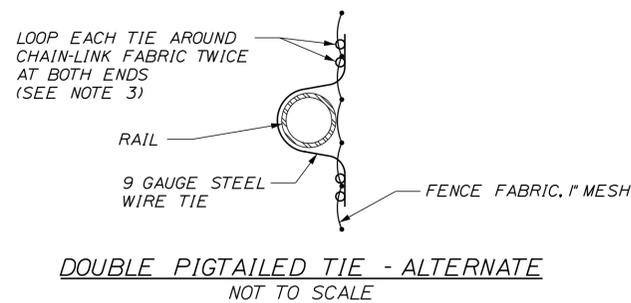
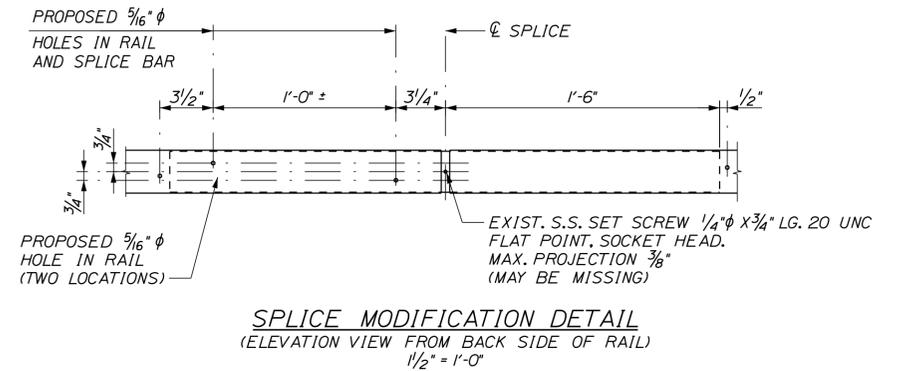
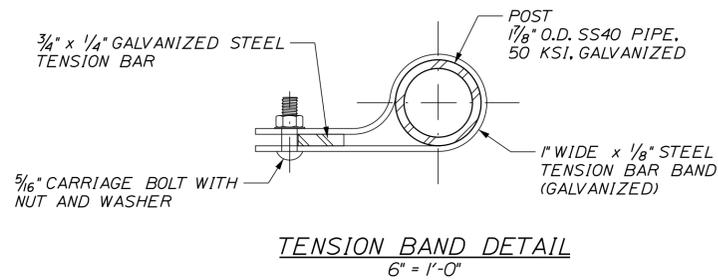
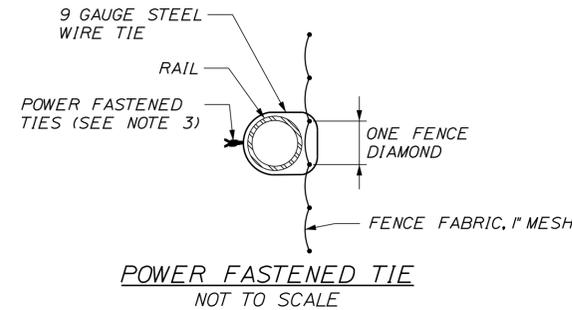
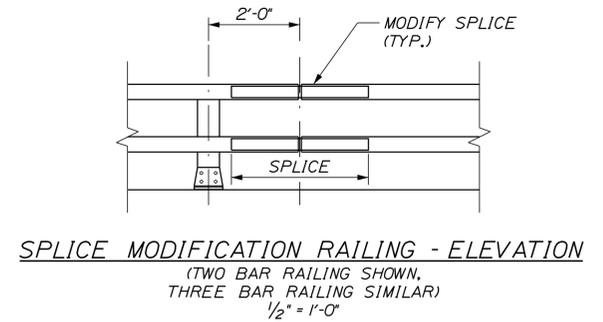
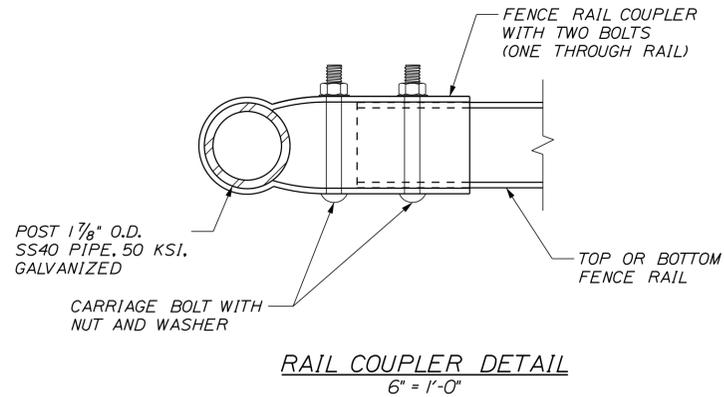
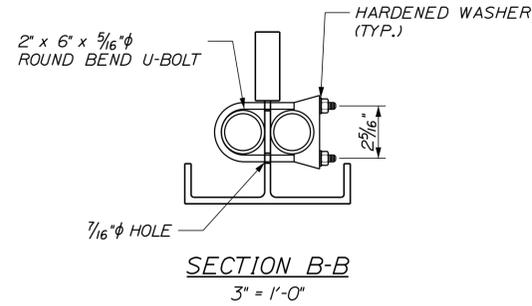
THE GOLD STAR
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
DENNETT ROAD OVERPASS
MISCELLANEOUS DETAILS
SHEET 1 OF 2

SHEET NUMBER: S-15
CONTRACT: 2018.08
36 OF 40

Date: 1/31/2018



NOTES:

1. INSTALL FENCE FABRIC BETWEEN ALUMINUM BRIDGE RAILS AND SNOW FENCE FRAME.
2. INSTALL CHAIN LINK FENCE FABRIC WITH TWISTED BARBS AT THE BOTTOM RAIL.
3. ROUND WIRE TIES SHALL BE 9 GAUGE ZINC-COATED STEEL PREFORMED TO THE RADIUS OF THE POST AND POWER-FASTENED TO WRAP 360 DEGREES AROUND THE POST AND ONE COMPLETE DIAMOND OF THE CHAIN-LINK FENCE. THE TWO ENDS SHALL BE TWISTED TOGETHER IN A CLOSE HELIX OF 1/2 MACHINE TURNS (3 FULL TWISTS) TIGHTLY AROUND THE POST AND CHAIN-LINK FABRIC. SPACE TIES @ 6" O.C. TO BOTTOM RAIL AND @ 12" O.C. TO ALL POSTS AND OTHER RAILS. TWISTED ENDS SHALL BE BENT DOWN UPON COMPLETION. ALTERNATIVELY, WIRE TIES MAY BE STANDARD ROUND 9 GAUGE ZINC-COATED STEEL. ALL TIES SHALL BE WRAPPED AROUND CHAIN-LINK FABRIC TWICE (DOUBLE PIGTAILED) AT BOTH ENDS. SPACE TIES @ 6" O.C. TO BOTTOM RAIL AND @ 12" O.C. TO ALL POSTS AND OTHER RAILS.
4. ALL BOLTS AND NUTS SHALL BE STEEL CONFORMING TO ASTM A307 AND ASTM A563 GRADE A RESPECTIVELY. WASHERS SHALL BE HARDENED STEEL COMMERCIAL TYPE A PLAIN AND SHALL MEET THE DIMENSIONAL REQUIREMENTS OF ANSI B18.22. ALL HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A 123) OR AASHTO M232 (ASTM A153) AS APPLICABLE.
5. SEE SHEET SF-01 FOR SNOW FENCE LIMITS.
6. THE EXISTING RAILING SPLICES ON DENNETT ROAD OVERRPASS SHALL BE REPAIRED BASED ON THE SPLICE MODIFICATION DETAIL PRESENTED. THIS WORK SHALL BE PAID FOR UNDER ITEM 507.095, "ALUMINUM BRIDGE RAILING - SPLICE MODIFICATION."

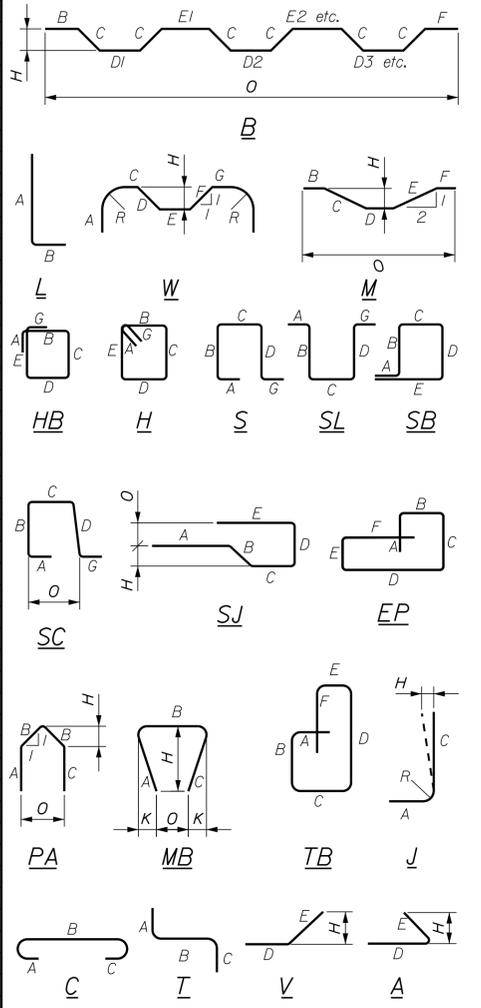
Filename: ... \MSTA\XXX_Misc_Details_2.dgn

Scale: AS NOTED		Designed by: TYLIN INTERNATIONAL		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		BRIDGE REPAIRS DENNETT ROAD OVERPASS MISCELLANEOUS DETAILS SHEET 2 OF 2	
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: Heath Cowan		MTA PROJECT MANAGER: Ralph C. Norwood, IV		SHEET NUMBER: S-16 CONTRACT: 2018.08	
				Designed	DSM	10/2017	Checked	NLB	10/2017
				Drawn	SAM	10/2017	In Charge of	DSM	1/2018

Date: 1/31/2018

STRAIGHT BARS				BENT BARS																			
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	K	O/R	LOCATION	
TRANSITION BARRIER				TRANSITION BARRIERS																			
TB500E	20	4'-3"	HORIZ. LEADING END BARRIERS	TB550	10	11'-5"	TB	9'	3'-9"	9'	4'-4"	4'	1'-6"	-	-	-	-	-	-	-	-	-	HORIZ. IN TRAILING END BARRIERS
TB501E	32	1'-6"	VERT. LEAD./TRAIL. END BARRIERS	TB650	24	4'-10"	S	0'	2'-1"	8"	2'-1"	0"	-	-	-	-	-	-	-	-	-	-	VERT. LEAD./TRAIL. END BARRIERS
TB502E	20	5'-1"	HORIZ. TRAILING END BARRIERS	ABUTMENT																			
TB600E	40	3'-0"	VERT. TRAILING END DOWELS	A550E	73	2'-10"	S	0'	6"	1'-10"	6"	0"	-	-	-	-	-	-	-	-	-	-	BACKWALL STIRRUPS
ABUTMENT				MEDIAN BARRIER																			
A500E	74	1'-6"	VERT. DOWELS INTO EXISTING	MB550E	160	2'-6"	V	-	-	-	10'	1'-5"	-	-	-	-	-	3"	-	-	-	-	MEDIAN BARRIER DOWELS
A501E	24	17'-6"	HORIZ. BACKWALL EXTENSION	MB551E	98	12'-3"	MB	3'-7"	1'-6"	3'-7"	-	-	-	-	-	-	-	3'-7"	8"	2"	-	-	MEDIAN BARRIER STIRRUPS
MEDIAN BARRIER				MB552E	10	12'-2"	MB	3'-6"	1'-8"	3'-6"	-	-	-	-	-	-	-	3'-6"	8"	2"	-	-	MEDIAN BARRIER STIRRUPS
MB500E	30	36'-0"	HORIZ. MEDIAN BARRIER	MB650E	2	10'-11"	S	0'	4'-10"	1'-3"	4'-10"	0"	-	-	-	-	-	-	-	-	-	-	MEDIAN BARRIER ENDS

TYPE - BENDING DIAGRAMS



All dimensions are out-to-out of bar.
 Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 315 and ACI Standard 318.

GENERAL NOTES

- The first two digits following the letter(s) of the mark indicate the size of the bar:
 Mark "A0502" = bar size #5
 Mark "P0805" = bar size #8
 Mark "S1150" = bar size #11
- Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case shall be based on crank bars as schedule on the plans.
- Bar marks ending with an "E" indicate epoxy coating required. Bar marks ending with an "S" indicate stainless steel bar is required. Bar marks ending with a "G" indicate Glass Fiber Reinforced Polymer (GFRP) bar is required.

Scale:			
No.	Revision	By	Date

Designed by:

TY-LIN INTERNATIONAL

CONSULTANT PROJECT MANAGER: Heath Cowan

By	Date	By	Date
Designed	BLT 12/2017	Checked	DSM 1/2018
Drawn	BLT 12/2017	In Charge of	DSM 1/2018

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THE GOLD STAR MEMORIAL HIGHWAY

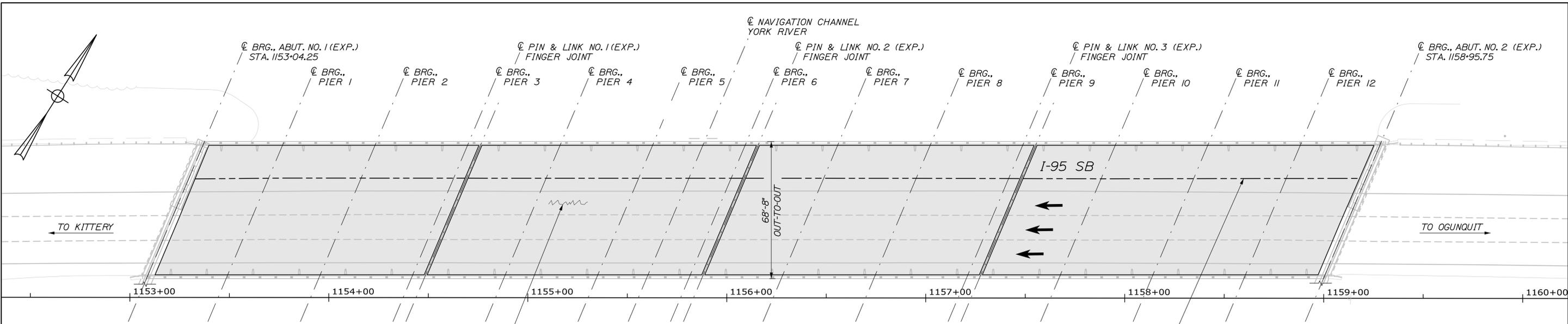
MTA PROJECT MANAGER: Ralph C. Norwood, IV

BRIDGE REPAIRS
 DENNETT ROAD OVERPASS
 REINFORCING STEEL SCHEDULE

SHEET NUMBER: S-17
 CONTRACT: 2018.08
 38 OF 40

Filename: ...XXX_Reinforcing Schedule.dgn

Date: 1/26/2018



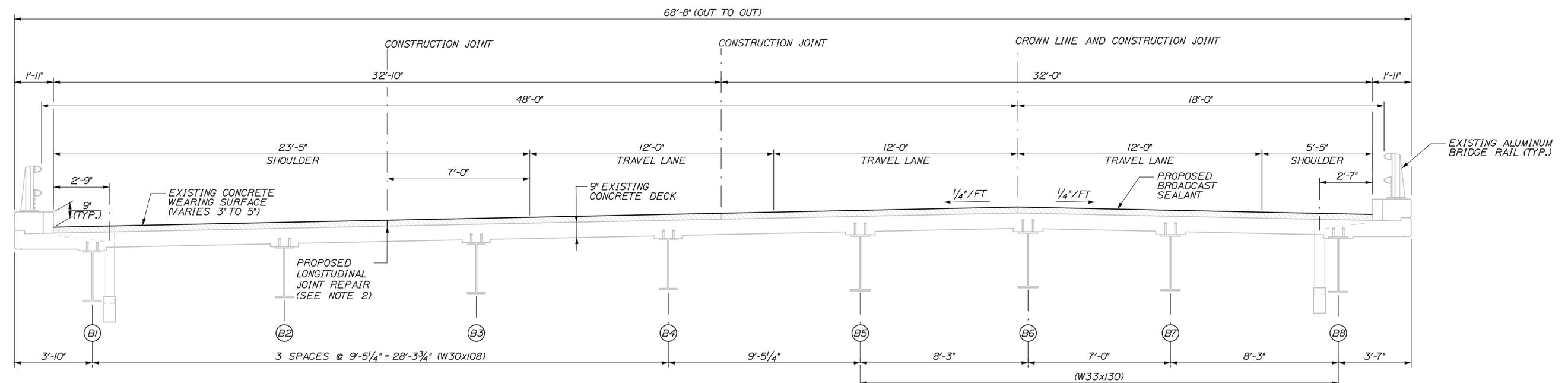
LEGEND

- BROADCAST SEALANT
- EPOXY INJECTION CRACK REPAIR
- LONGITUDINAL JOINT REPAIR

PROPOSED EPOXY INJECTION CRACK REPAIR (SEE NOTE 1)

PLAN
1" = 25'-0"

PROPOSED LONGITUDINAL JOINT REPAIR (1 LOCATION)



SUPERSTRUCTURE SECTION
(SOUTHBOUND LOOKING UPSTATION)
1/4" = 1'-0"

NOTES:

1. EPOXY INJECTION CRACK REPAIR LIMITS ARE UNKNOWN AND SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT. REPAIRS SHALL BE PAID FOR UNDER ITEM 518.40, EPOXY INJECTION CRACK REPAIR. THE EASTERLY MOST 32 FEET OF THE SOUTHBOUND BRIDGE DECK HAVE BEEN PREVIOUSLY REPAIRED.
2. PROPOSED LONGITUDINAL JOINT INSPECTION AND REPAIR SHALL BE PERFORMED THE FULL LENGTH OF BRIDGE AND SHALL BE PAID FOR UNDER ITEM 518.41, LONGITUDINAL JOINT REPAIR. THE 2 EAST CONSTRUCTION JOINTS HAVE PREVIOUSLY BEEN REPAIRED. REPAIRS SHALL BE LIMITED TO AREAS OF DETERIORATED JOINT SEALANT OR OPEN JOINTS.
3. BROADCAST SEALANT SHALL BE APPLIED TO THE FULL BRIDGE DECK AND MEASURED FOR PAYMENT UNDER ITEM 515.203, BROADCAST SEALANT FOR CONCRETE SURFACES.

Filename: 039_York River Southbound Plan and Typical Section.dgn

Scale:		Designed by:	
No.	Revision	By	Date
CONSULTANT PROJECT MANAGER: Ashley E. Stephens, P.E.			
	By	Date	
	By	Date	
	By	Date	
	By	Date	

HNTB

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

Designed	NMW	01\18	Checked	AES	01\18
Drawn	ERB	01\18	In Charge of	RAL	01\18

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

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

YORK RIVER WEARING SURFACE REPAIRS

YORK RIVER SOUTHBOUND
PLAN AND TYPICAL SECTION

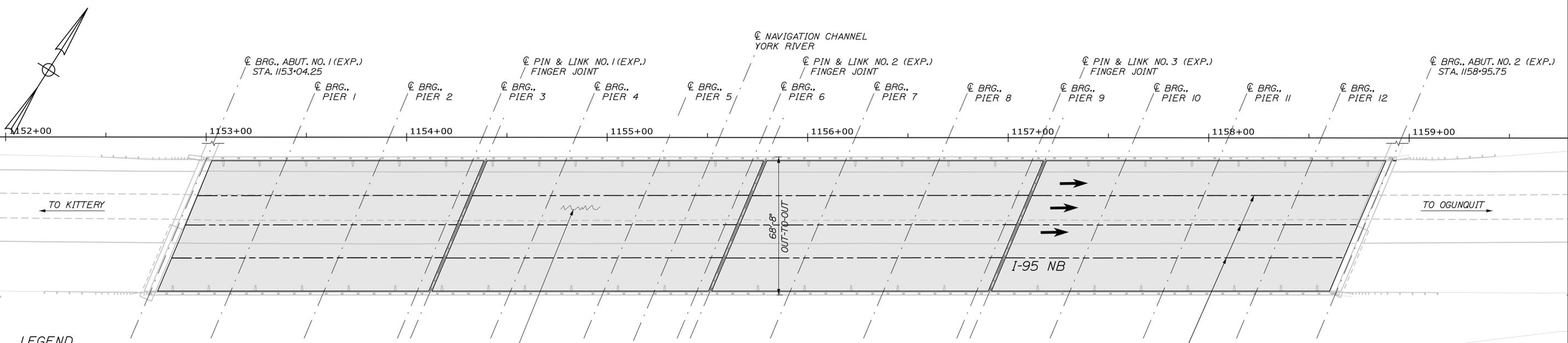
SHEET NUMBER: S-01

CONTRACT: 2018.08

9 OF 40

Date: 1/26/2018

Filename: 040_York River Northbound Plan and Typical Section.dgn



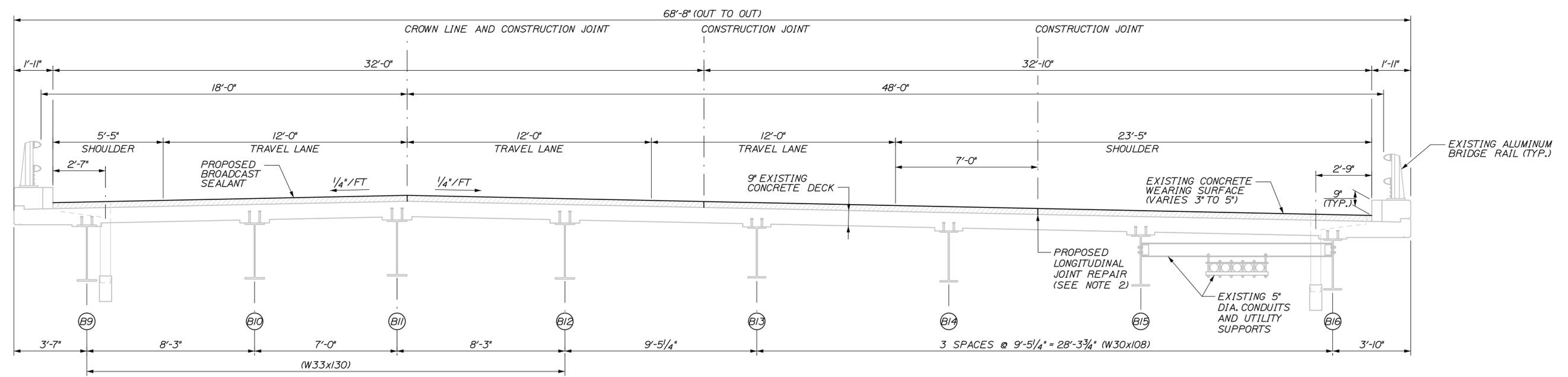
LEGEND

- BROADCAST SEALANT
- EPOXY INJECTION CRACK REPAIR
- LONGITUDINAL JOINT REPAIR

PROPOSED EPOXY INJECTION CRACK REPAIR (SEE NOTE 1)

PLAN
1" = 25'-0"

PROPOSED LONGITUDINAL JOINT REPAIR (3 LOCATIONS)



SUPERSTRUCTURE SECTION
(NORTHBOUND LOOKING UPSTATION)
1/4" = 1'-0"

NOTES:

1. EPOXY INJECTION CRACK REPAIR LIMITS ARE UNKNOWN AND SHALL BE DETERMINED IN THE FIELD BY THE RESIDENT. REPAIRS SHALL BE PAID FOR UNDER ITEM 518.40, EPOXY INJECTION CRACK REPAIR.
2. PROPOSED LONGITUDINAL JOINT INSPECTION AND REPAIR SHALL BE PERFORMED THE FULL LENGTH OF BRIDGE AT THREE LOCATIONS AND SHALL BE PAID FOR UNDER ITEM 518.41, LONGITUDINAL JOINT REPAIR. REPAIRS SHALL BE LIMITED TO AREAS OF DETERIORATED JOINT SEALANT OR OPEN JOINTS.
3. BROADCAST SEALANT SHALL BE APPLIED TO THE FULL BRIDGE DECK AND MEASURED FOR PAYMENT UNDER ITEM 515.203, BROADCAST SEALANT FOR CONCRETE SURFACES.

Scale:		Designed by:	
No.	Revision	By	Date

HNTB			
CONSULTANT PROJECT MANAGER: Ashley E. Stephens, P.E.			
Designed	NMW	01\18	Checked AES
Drawn	ERB	01\18	In Charge of RAL

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THE GOLD STAR
MEMORIAL HIGHWAY

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

YORK RIVER WEARING SURFACE REPAIRS

YORK RIVER NORTHBOUND
PLAN AND TYPICAL SECTION

SHEET NUMBER: S-02
CONTRACT: 2018.08
40 OF 40