AUGUSTA GARDINER I-295 MAINLINE GARDINE **INT 102** WEST GARD MAINLINE PLAZA **CONTRACT 2021.03** BRIDGE REPAIRS, **ROUTE 9** LEWISTON **UNDERPASS MILE 86.1** INT 80 INT 42 AUBURN -1-----**CONTRACT 2021.03** INT 75 BRIDGE REPAIRS, **GROVE STREET** NEW GLOUCESTER MAINLINE PLAZA **UNDERPASS MILE 83.7** FALMOUTF **CONTRACT 2021.03** BRIDGE REPAIRS, PORTLAND **BENNETT ROAD UNDERPASS MILE 68.6** ATLANTIC OCEAN SCARBOROUGH BIDDEFORD **KENNEBUNK** ALFRED/ **INT 25** WELLS INT 19 2 OGUNQUIT NORTH SANFORD YORK BEACH SOUTH KITTERY PORTSMOUTH LOCATION MAP MAINE TURNPIKE AUTHORITY APPROVED: 4/22 Reter & Mentelo DATE PETER S. MERFELD, P.E. CHIEF OPERATIONS OFFICER 4/22/21 DATE STEPHEN R TARTRE, P.E. DIRECTOR OF ENGINEERING



THE GOLD STAR MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

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

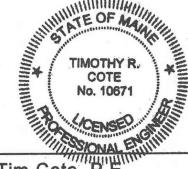
S. PETER MILLS, EXECUTIVE DIRECTOR

CONTRACT 2021.03 BRIDGE REPAIRS 3 LOCATIONS: BENNETT ROAD UNDERPASS (MILE 68.6) GROVE STREET UNDERPASS (MILE 83.7)

ROUTE 9 UNDERPASS (MILE 86.1)



SHEETS 23-35



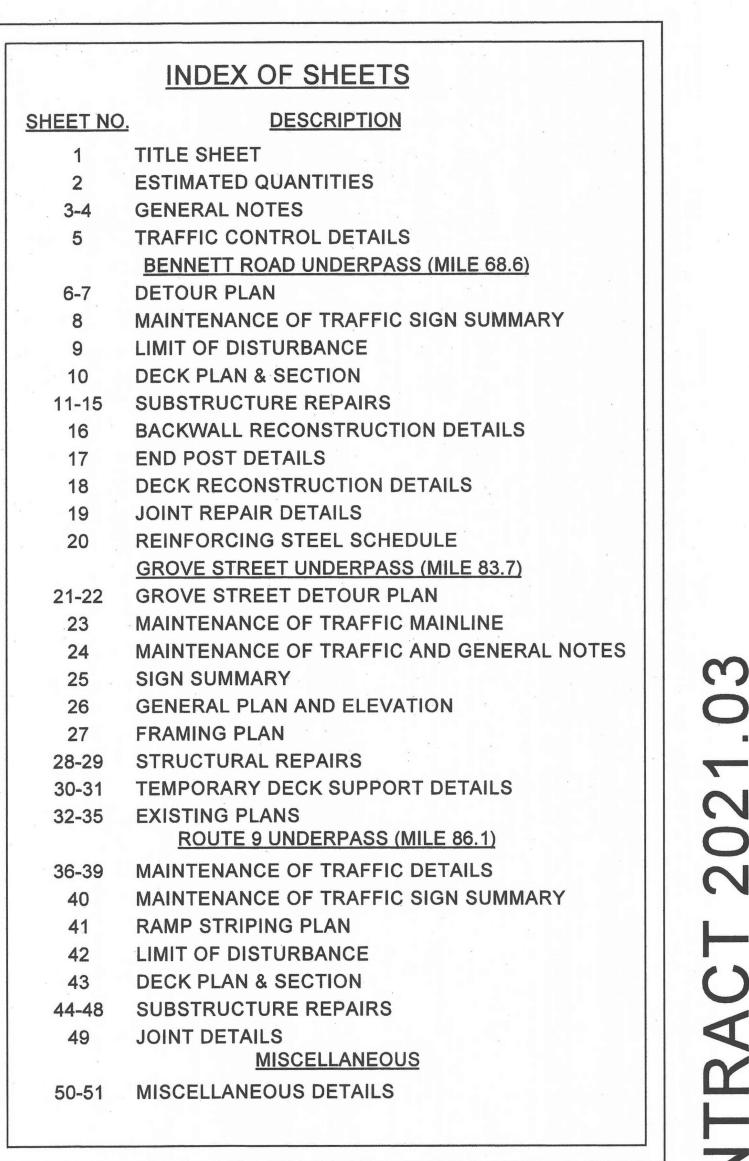
Tim Cote, P.E **HNTB** Corporation

DATE





DANIEL S. MYERS, P.E.



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TYLININTERNATIONAL

T.Y. LIN INTERNATIONAL PROJECT MANAGER

4/21/21

DATE

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2021 BRIDGE REPAIRS

ESTIMATED QUANTITIES

ACT:2021.03

SHEET NUMBER: QT-01

2 OF 51

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<u></u> /.	ALL DETAILS SHALL BE IN CONFO OF TRANSPORTATION (MAINEDOT) AND BRIDGES, 2014 EDITION, AND PRACTICES FOR EROSION AND S	DRMANCE STANDARD MAINEDO	D DETA T BEST	ILS FOR H. MANAGEME		<i>'</i> Τ		WASTE MAT SITE, IN AC ENVIRONME	- ERIALS S CORDANCE
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<i>د</i> .	LIMITS OF DISTURBANCE, SHALL E COMPLETION OF THE CONTRACT. F CONTRACT.	BE REMOV	IED AN	ND RESET L	JPON		3.	EXISTING IN SHALL BE	NSLOPES
3.	IN AREAS OF PROPOSED NEW FO WIRE FENCE SHALL BE REMOVED EXISTING FENCE SHALL BE INCID ITEMS. PROPOSED FENCE SHALL NO GAPS. ALL WORK SHALL BE DO MAINEDOT STANDARD SPECIFICAT STANDARD DETAILS SECTION 607	D.REMOVI DENTAL TO BE INSTA DNE IN CO TIONS SEC	NG ANL O PROF ALLED O ONFORM	D DISPOSINO POSED FENO CONTINUOUS MANCE WITH	G OF CE BID LY WITH	+	-	FILL/BORRO DENSITY AS AMENDED E AGGREGATE COMPACTED DETERMINE MATERIAL E	5 DETERM BY SPECIA BASE, AI TO 95% D BY THE BEHIND A
4.	CONNECTION FOR PROPOSED FEN INCIDENTAL TO THE CONTRACT IN ADDITIONAL BRACING FOR THE E	CLUDING	ANY RE	EQUIRED	HALL BE			AMENDED E AGGREGATE COMPACTED	BASE, Al
5.	NO SEPARATE PAYMENT FOR SUP BE MADE FOR THE SUPERVISION UNDER THE EQUIPMENT RENTAL	N OF EQU				0			
6.	THE CONTRACTOR SHALL NOTE THE CONTRACTOR SHALL NOTE TH PAVEMENT THICKNESS MAY VARY THE PLANS. REMOVAL OF EXISTIN COMMON EXCAVATION.	FROM TH	IE DEF	PTHS SHOWN					
<u>GE</u>	NERAL MAINTENANCE OF	- TRAF	FIC	NOTES:					
/.	ALL SIGNING AND PAVEMENT STR ON UNIFORM TRAFFIC CONTROL D						: "N	IANUAL	
2.	FOR SIGN DETAILS, SEE MAINTEN	IANCE OF	TRAFI	FIC SIGN SU	UMMARY	SHEETS.			
3.	ALL CONSTRUCTION SIGNS SHALL	BE IN NE	W OR	LIKE NEW	CONDIT	ION.			
4.	ALL WORK TO CONFORM TO THE M SPECIFICATIONS FOR HIGHWAY A BY THE MAINE TURNPIKE AUTHO PROJECT'S SPECIAL PROVISIONS.	ND BRIDG	SES, NO	VEMBER 20	014, EXCL	EPT AS N	10D.	IFIED	
5.	THE CONTRACTOR SHALL REMOVE PROPOSED PAVEMENT MARKINGS THE MUTCD.TEMPORARY PAVEMENT NOTED.TEMPORARY PAVEMENT MA PAVEMENT TO REMAIN SHALL BE REMOVED PRIOR TO FINAL PAVEN MATERIALS SHALL BE UNDER ITE	IN ACCOP NT MARKIN RKINGS C TEMPORA MENT MAR	RDANCE NGS SH DN FINA ARY PA RKING.F	WITH THE HALL BE PA AL PAVEMEN VEMENT MA PAYMENT FO	SPECI INTED, C IT SURF RKING R ALL	FICATION UNLESS C FACE OR TAPE TO WORK AND	S A DTHE EX BE	AND ERWISE ISTING	
6.	AT NO TIME SHALL SHOULDER CL OCCUR ON THE SAME SIDE OF T			TH SIDES C	OF THE	TRAVEL	LAN	ES	
7.	WORK WITHIN SHOULDER CLOSURI MAINLINE TRAFFIC.	ES SHALL	BE CO	ONTINUOUS	to mini	MIZE IM	PAC	TS TO	
8.	CONTRACTOR SHALL COORDINATE PROJECTS.	ALL MAIN	TENANC	CE OF TRAF	FIC WI	TH ADJAC	CEN	Τ	
9.	WHEN TRUCK MOUNTED ATTENUAT OR PAY ITEM),THEY SHALL BE LO ZONE.								
10.	LOCATIONS OF TEMPORARY TRAFF MARKINGS ARE APPROXIMATE.FI BY THE RESIDENT ENGINEER.				-			FIELD	
//.	PORTABLE-CHANGEABLE MESSAGE EACH BRIDGE,OR AS DIRECTED				D ON E.	ACH SIDE	Ξ Ο,	F	
12.	SPEED LIMIT, STOP, YIELD, AND E PAVEMENT.	XIT SIGNS	s shal	LBE A MI	NIMUM (OF 5' ABC	νe	THE	
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lo.	Revision	By C	Date						- 1 1/
			С	ONSULTANT	PROJEC		R: I	Daniel S. Myers	
			D	esigned	By BLT	Date 8/2020		Checked	By SRD 8
				rawn	TWA	8/2020		In Charge of	DSM C

SHALL BE DISPOSED OF OFF THE PROJECT WITH CHAPTER 404, DEPARTMENT OF TECTION SOLID WASTE MANAGEMENT RULES.

PLISHED AS PART OF THIS PROJECT SHALL BE CORDANCE WITH OSHA SUBPART P OF 29 CFR ONSTRUCTION STANDARDS FOR EXCAVATION).

STEEPER THAN 2: IN PROPOSED FILL AREAS AS DIRECTED BY THE RESIDENT.

BE COMPACTED TO 90% OF ITS MAXIMUM DRY MINED BY THE MODIFIED PROCTOR, EXCEPT AS AL PROVISION 203. GRANULAR BORROW, ND AGGREGATE SUBBASE SHALL BE OF THEIR MAXIMUM DRY DENSITY AS E MODIFIED PROCTOR FOR AREAS OF BACKFILL BUTMENTS AND RETAINING WALLS, EXCEPT AS AL PROVISION 203. GRANULAR BORROW, ND AGGREGATE SUBBASE SHALL BE IN ALL OTHER AREAS.

EROSION CONTROL

- I. THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS.THE CONTRACTOR SHALL PROPOSE ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS.THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.
- 2. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.

<u>DRAINAGE</u>

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

LOCAL ROAD

I. ALL JOINTS BETWEEN EXISTING AND PROPOSED BITUMINOUS PAVEMENT SHALL BE BUTTED. PAYMENT SHALL BE PAID FOR AS ITEM 202.202.

Date 3/2020 03/2021

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





MTA PROJECT MANAGER: KristiVan Ooyen

<u>UTILITY</u>

- I. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES.LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN.NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED.NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT I-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF THE WORK.
- 2. 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 EXCAVATION 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.
- 3. THE AUTHORITY HAS 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 MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.

2021 BRIDGE REPAIRS

GENERAL NOTES

CONTRACT:2021.03

SHEET NUMBER: GN-01

SPECIFICATIONS:

<u>DESIGN</u>

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 8TH EDITION WITH INTERIMS THROUGH 2020.

CONSTRUCTION STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS. NOVEMBER 2014.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, NOVEMBER 2014, WITH UPDATES THROUGH 2019.

MAINE TURNPIKE AUTHORITY'S 2016 SUPPLEMENTAL **SPECIFICATIONS**

AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, THIRD EDITION WITH 2016 INTERIMS

MATERIALS:

<u>CONCRETE</u>

CONCRETE END POSTS, WINGWALLS AND ABUTMENT BACKWALLS SHALL BE CLASS AAA.

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

REINFORCING STEEL AASHTO M31, GRADE 60 EPOXY-COATED.

BASIC DESIGN STRESSES:

<u>CONCRETE</u> CLASS AAA, f'_c = 4,500 P.S.I. CLASS AAA - $MODIFIED, f'_{c} = 4,500 P.S.I.$

REINFORCING STEEL $f_v = 60,000 P.S.I.$

TRAFFIC DATA

BENNETT ROAD:

AADT..... Design Speed (mph)......40 MPH Functional Class..... Local

GROVE STREET:

AADT Design Speed (mph) Functional Class	35 MPH
ROUTE 9:	

AADT	5180
Design Speed (mph)45	MPH
Functional Class Minor Ar	

GENERAL NOTES:

- BRIDGES, NOVEMBER 2014, WITH UPDATES THROUGH 2019.
- IS NOT GUARANTEED.
- NOTED.
- THE PLANS.
- PROVISION SECTION 524.
- THE REQUIRED BAR LENGTHS AS REQUIRED.
- ITEM 503.15, EPOXY-COATED REINFORCING STEEL, PLACING.

CONCRETE REPAIR PROCEDURAL NOTES:

- ITEMS.
- INCIDENTAL TO 518 ITEMS.

REMOVAL PROCEDURE:

- INCIDENTAL TO THE SPECIFIED 518 ITEMS.
- CONTRACTOR CONTINUING THE REMOVAL.
- 3. PERFORM I INCH DEEP SAWCUTS ALONG LIMITS OF REMOVAL.
- 4. CHIP CONCRETE TO DEPTH REQUIRED PER SPECIFICATIONS.
- CONCRETE SURFACE PATCH/REPAIR PROCEDURE:

Sca	lle:			Designed b	y:				
Sca No.	NOT TO SCALE				۲LI		ERNATI	ON	AL
No.	Revision	By	Date						
				CONSULTANT	PROJEC	T MANAGER:	Daniel S. Myers		
					By	Date		By	Date
				Designed	DSM	8/2020	Checked	BLT	8/2020
				Drawn	TWA	8/2020	In Charge of	DSM	03/2021

I. THE PROPOSED ELEVATIONS ARE BASED ON THE NAVD 88 DATUM. THE AS-BUILT PLANS ARE BASED ON NGVD 29 DATUM UNLESS NOTED OTHERWISE.

2. FOR ADDITIONAL DETAILS REFERENCED OR NOT SHOWN IN THESE DRAWINGS, SEE THE STATE OF MAINE, DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, HIGHWAYS AND

3. COPIES OF THE AS-BUILT PLANS ARE ON FILE AND ARE AVAILABLE ON THE MAINE TURNPIKE AUTHORITY WEBSITE. THE COMPLETENESS AND ACCURACY OF THESE PLANS

4. REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2" MIN. UNLESS OTHERWISE

5. CHAMFER ALL EXPOSED CONCRETE EDGES $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.

6. ALL PROPOSED CONCRETE CURB FACES AND INSIDE AND TOP FACES OF THE ENDPOSTS SHALL RECEIVE A RUBBED FINISH PRIOR TO THE APPLICATION OF THE CLEAR PROTECTIVE COATING FOR CONCRETE SURFACE, UNLESS NOTED OTHERWISE ON

SHIELDING REQUIRED DURING CONSTRUCTION SHALL NOT PROJECT BELOW THE BOTTOM FLANGES OF GIRDERS. PAYMENT FOR SHIELDING SHALL NOT BE MADE DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. IN ACCORDANCE WITH SPECIAL

ALL PAINT ON EXISTING STEEL, DAMAGED BY CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT. 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. ALL WORK, MATERIALS, AND COSTS ASSOCIATED WITH REPAIRS TO THE STEEL PROTECTIVE COATING. DUE TO DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS, SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENCE.

9. WHERE DRILLING AND ANCHORING OF REINFORCING STEEL IS SPECIFIED THE CONTRACTOR SHALL USE A MATERIAL LISTED ON THE MAINEDOT 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 HAVE NOT BEEN SPECIFIED, BAR LENGTHS HAVE BEEN DEVELOPED BASED ON AN ASSUMED EMBEDMENT DEPTH OF 9" FOR #5 BARS AND II" FOR #6 BARS. THE CONTRACTOR SHALL VERIFY THE REQUIRED DEPTH OF EMBEDMENT AND ADJUST

IO. PAYMENT FOR DRILLING AND ANCHORING OF REINFORCING STEEL IS INCIDENTAL TO

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

ANY REINFORCING STEEL REQUIRED TO REPLACE DETERIORATED EXISTING REINFORCEMENT IN CONCRETE REPAIR AREAS SHALL BE EPOXY COATED AND WILL BE

CONTRACTOR SHALL REMOVE ALL TECTYL COATING PRIOR TO WORK. PAYMENT SHALL BE

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

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

GIRDER REPAIR GENERAL NOTES:

- I. DUE TO THE NATURE OF REPAIR PROJECTS, THE EXACT EXTENT OF REPAIR WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME OF CONTRACT DEVELOPMENT. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATION TO THE CONSTRUCTION DETAILS, DIMENSIONS, AND WORK QUANTITIES. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH FIELD CONDITIONS AND AS DIRECTED BY THE RESIDENT.
- ALL DIMENSIONS, ELEVATIONS, AND OTHER INFORMATION SHOWN ON THESE DRAWINGS THAT DEFINE THE STRUCTURE ARE BASED UPON THE ORIGINAL CONSTRUCTION DRAWINGS AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED TO REPRESENT AS-BUILT DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD AS NECESSARY AND AS REQUIRED FOR THE COMPLETION OF THE WORK UNDER THE CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY AND FOR THE CORRECT FIT OF ALL CONSTRUCTION.
- 3. THE CONTRACTOR SHALL REPORT TO THE RESIDENT ANY DEVIATIONS OF THE ACTUAL CONDITIONS FROM THOSE DEPICTED ON THE DRAWINGS. SHOULD ANY DEVIATIONS BE FOUND. THE RESIDENT SHALL REVIEW AND PRESCRIBE CORRECTIVE ACTIONS TO BE TAKEN.
- ALL WORK IS TO BE PERFORMED WITH CARE SO THAT MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE AUTHORITY. WILL NOT BE DAMAGED. IF ANY SUCH MATERIALS ARE DAMAGED. THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE RESIDENT AT NO EXPENSE TO THE AUTHORITY.
- ALL STRUCTURAL STEEL SUPPLIED BY THE CONTRACTOR SHALL CONFORM TO THE 5. REQUIREMENTS OF AASHTO M270 (ASTM A709) GRADE 36 OR HIGHER.
- 6. THE CONTRACTOR MAY USE THE TEMPORARY STRONGBACK SYSTEM (2 W30x108 BEAMS) OWNED BY THE AUTHORITY, OR A SIMILAR STRONGBACK SYSTEM FABRICATED FROM STRUCTURAL STEEL IN GOOD CONDITION MEETING THE REQUIREMENTS SHOWN ON SHEETS S-5 AND S-6. THE CONTRACTOR SHALL DOCUMENT THE SOURCE OF ANY SALVAGED MATERIAL AND SUBMIT THEM FOR APPROVAL. ALL OTHER COMPONENTS OF THE TEMPORARY STRONGBACK SYSTEM SHALL HAVE A YIELD STRENGTH OF AT LEAST 36 KSI UNLESS OTHERWISE NOTED. CONNECTION AND DIAPHRAGM PLATES SHALL HAVE A FIELD STRENGTH EQUAL TO OR GREATER THAN THE TEMPORARY SUPPORT BEAMS.
- IF THE CONTRACTOR CHOOSES TO USE THE AUTHORITY PROVIDED STRONGBACK, THE 7. CONTRACTOR SHALL INSPECT IT TO ENSURE IT IS IN ACCEPTABLE CONDITION AND MEETS THE REQUIREMENTS OF THE PLANS AND SPECIAL PROVISIONS. ANY COMPONENTS THAT MAY BE MISSING FROM THE STRONGBACK SYSTEM (ANCHOR RODS. ANGLE BRACES, PEDESTALS, HANGER RODS, ETC.) SHALL BE PROVIDED BY THE CONTRACTOR.
- ALL NEW STRUCTURAL STEEL INCORPORATED INTO THE FINAL PROJECT, AND ALL AREAS OF PAINT REMOVAL, SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH SPECIAL PROVISION 506. ALL THE GIRDERS SHALL BE PAINTED 6" BEYOND THE ACTUAL PAINT REMOVAL LIMITS. THE TERMINATION POINT SHALL BE TAPED OFF TO PREVENT OVERRUN AND OVERSPRAY. THE FINISH COAT COLOR SHALL MATCH THE EXISTING PAINT SYSTEM.
- 9. BOLTS SHALL BE \mathcal{T}_8 " DIA. IN STANDARD HOLES AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO MI64 (ASTM A325). BOLTS SHALL BE HOT DIP GALVANIZED PER AASHTO M232 (ASTM AI53).
- IO. HANGER RODS SHALL BE ASTM FI554. GRADE IO5 OR AI93. B7 THREADED RODS WITH HEAVY HEX NUTS CONFORMING TO ASTM A563, GRADE DH. AND WASHERS CONFORMING TO ASTM F436. TWO-PIECE SPHERICAL WASHERS SHALL BE HARDENED TO MEET THE REQUIREMENTS OF ASTM F436.

GENERAL FINISHING:

- I. THE CONTRACTOR SHALL REMOVE ALL EXISTING PROTECTIVE COATINGS FROM CONCRETE SURFACES, IN ACCORDANCE WITH SPECIAL PROVISION SECTION 515, BEFORE APPLICATION OF NEW PROTECTIVE COATING. THE BRIDGES WERE PREVIOUSLY COATED WITH AN ACRYLIC COATING SYSTEM. DISPOSE OF ALL WASTE FROM THE REMOVAL IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE INCIDENTAL TO THE SPECIFIED 515 ITEMS.
- 2. ALL EXPOSED CONCRETE SURFACES AND REPAIR AREAS THAT EXTEND BELOW GRADE, AS SHOWN IN THE SUBSTRUCTURE REPAIR SHEETS, 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, ALL PIER FACES AND ALL BARRIER OUTSIDE FACES. CLEAR PROTECTIVE COATING SHALL BE APPLIED TO ALL CONCRETE CURB FACES, ALL FASCIAS AND FASCIA OVERHANGS, AND ALL BARRIER INSIDE AND TOP FACES, UNLESS NOTED OTHERWISE ON THE PLANS.

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



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KristiVan Ooyen

LIST OF ABBREVIATIONS

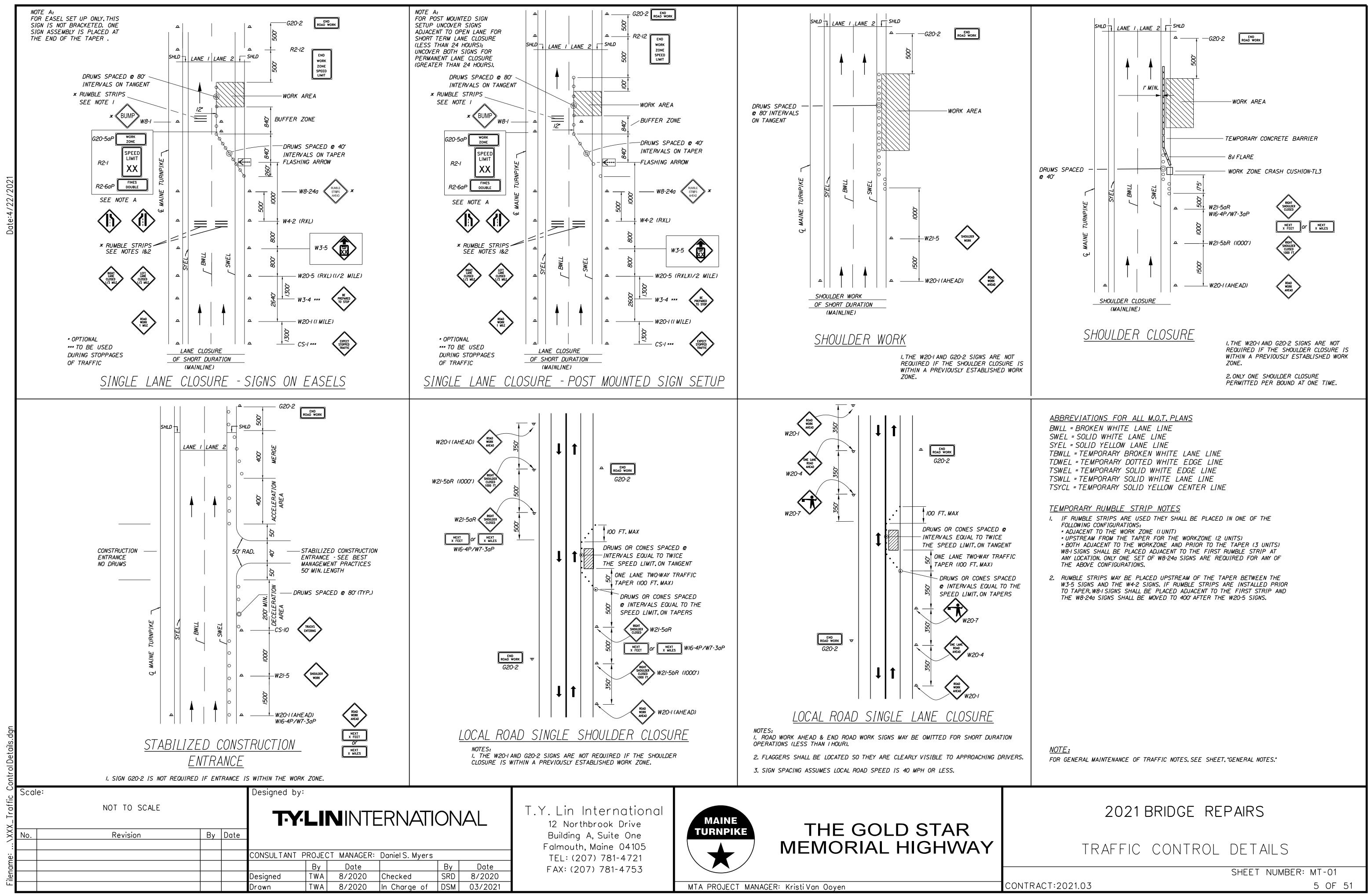
	DILLITATIONS
ABUT.	ABUTMENT
ADDL.	ADDITIONAL
ASCG.	AGGREGATE SUBBASE
· · -	COURSE GRAVEL
4 <i>LT</i> .	ALTERNATE
APPROX.	APPROXIMATE
3 <i>0T</i> .	BOTTOM
BRG.	BEARING
ÇL.	CLEAR
<u>, </u>	CENTERLINE
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CTR.	CENTER
	DEMOLITION
	DIAMETER
DIAPH.	DIAPHRAGM
DIM.	DIMENSION
ĒA.	EACH
ĒB	EASTBOUND
E . F.	EACH FACE
EL.	ELEVATION
	EQUAL
EXIST.	EXISTING
	EXPANSION
 F.F.	FAR FACE
	HORIZONTAL
IT.	JOINT
LV	LONG LEG VERTICAL
S	LUMP SUM
MAX.	MAXIMUM
AIN.	MINIMUM
ITA	MAINE TURNPIKE AUTHORITY
VB	NORTHBOUND
V. <i>F</i> .	NEAR FACE
VO	NUMBER
VTS	NOT TO SCALE
V. <i>T.S</i> .	NOT TO SCALE
D.H.W.	ORDINARY HIGH WATER
PED.	PEDESTAL
PGL	PROFILE GRADE LINE
	PLATE
 _	PLATE
- PROP.	PROPOSED
	ROADWAY
SB	SOUTHBOUND
SF	SQUARE FEET
	SHOULDER
	SHOULDER
SP.	SPACE(S)
	SPACE(S)
	STATION
	STIFFENER
	TEMPORARY
Γ. &B .	TOP & BOTTOM
ΓΡΚΕ.	TURNPIKE
TYP.	TYPICAL
J.O.N.	UNLESS OTHERWISE NOTED
/ERT.	VERTICAL
VB	WESTBOUND
V.P.	WORKING POINT

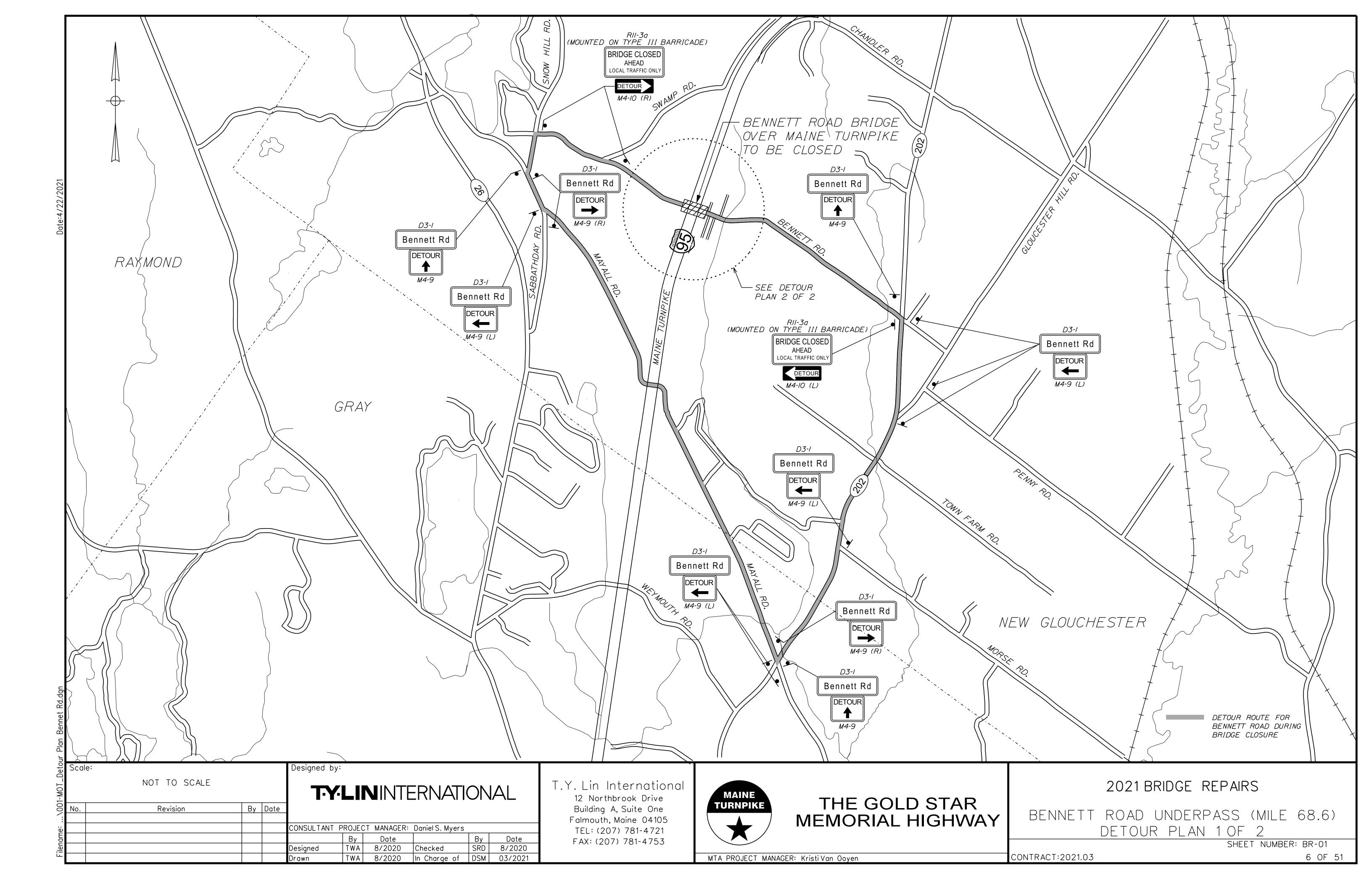
2021 BRIDGE REPAIRS

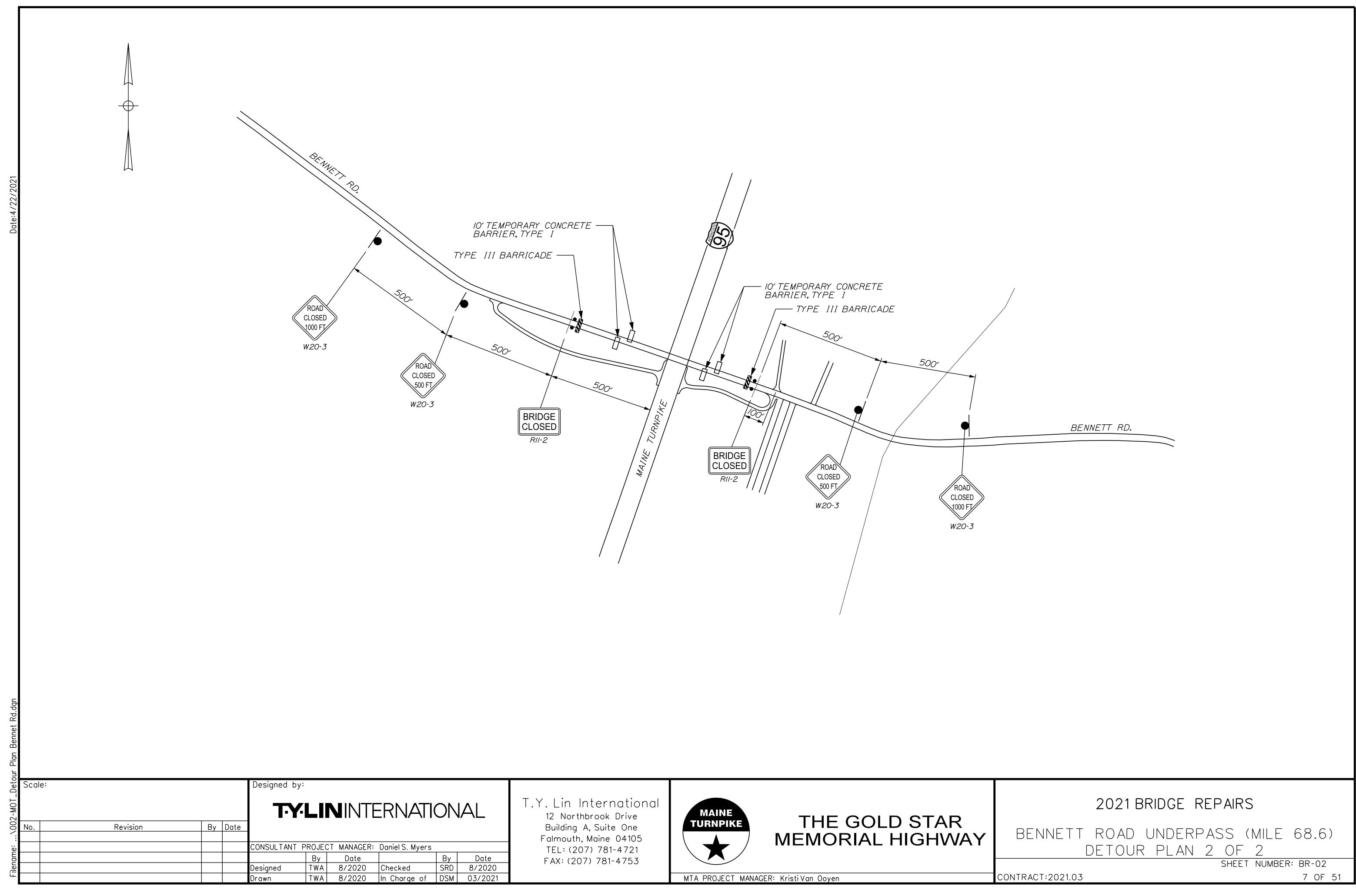
BRIDGE GENERAL NOTES

CONTRACT:2021.03

SHEET NUMBER: GN-02







IDENTIFI-			TEXT						NUMBER OF SIGNS		1	BORDER	AREA IN	NOTES
CATION NUMBER	SIG WIDTH F			LETTE HEIGH	IT SI	RTICAL PACING	RTE.	MKR.	SIGNS REQUIRED	BACK- GROUND	LEGEND BORDER	RADIUS	SQUARE FEET	NOTES
CS-I	48"	48"	EXPECT STOPPED TRAFFIC	6" 6" 6"		4" 4"			4	ORANGE	BLACK		16.00 (64)	
D3-1	48"	12"	Bennett Rd	CONF HIGH	ORM : WAY S				13	ORANGE	BLACK		4.00 (52)	
G20-2	36"	24"	END ROAD WORK						4	ORANGE	BLACK		6.00 (24)	
G20-5aP	48"	24"	WORK ZONE						4	ORANGE	BLACK		8.00 (32)	
M4-9 (THRU) (LEFT) (RIGHT)	30"	24"	DETOUR						3 6 3	ORANGE	BLACK		5.00 (15) (30) (15)	
M4-IO (LEFT) (RIGHT)	48"	18"	DETOUR						1 2	ORANGE	BLACK		6.00 (6) (12)	
R2-1	48"	60"	SPEED LIMIT 60						4	WHITE	BLACK		20.00 (80)	
R2-6aP	36"	24"	FINES DOUBLE						4	WHITE	BLACK		6.00 (24)	
R2-12	36"	54"	END WORK ZONE SPEED LIMIT						4	WHITE	BLACK		13.50 (54)	
RII-2	48"	30"	BRIDGE CLOSED						2	WHITE	BLACK		10.00 (20)	MOUNTED T TYPE III BARRICADE
RII-3a	60"	30"	BRIDGE CLOSED AHEAD LOCAL TRAFFIC ONLY			V		7	3	WHITE	BLACK		12.50 (37.5)	MOUNTED T TYPE III BARRICADE

Scale:				Designed t	by:				
	NOT TO SCALE			Γ·	∕·LII		ERNATI	ON	
No.	Revision	By	Date						
				CONSULTAN	r projec	T MANAGER:	Daniel S. Myers		
					By	Date		By	۵
				Designed	TWA	8/2020	Checked	BLT	11/
				Drawn	TWA	8/2020	In Charge of	DSM	03

				TEXT OF			NUMBER]
IDENTIFI- CATION		E OF GN	TEXT		MENSIONS			COL BACK-	LEGEND	BORDER	AREA IN SQUARE	NOTES
NUMBER		HEIGHT		HEIGHT	SPACING	ARROW RTE. MKR.	REQUIRED	GROUND	BORDER	RADIUS	FEET	
W3-4	48"	48"	BE PREPARED TO STOP	CONFOF	DIMENSION RM TO "ST. AY SIGNS" -	S SHALL ANDARD	4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	<i>48</i> "	SPEED LIMIT 60				4	ORANGE	BLACK		16.00 (64)	
W4-2 (LEFT) (RIGHT)	48"	48"					4 4	ORANGE	BLACK		16.00 (64) (64)	
W8-1	48"	48"	BUMP				4	ORANGE	BLACK		16.00 (64)	
W8-24A	48"	48"	RUMBLE STRIPS AHEAD				4	ORANGE	BLACK		16.00 (64)	
W2O-I (I MILE)	48"	48"	ROAD WORK 1 MILE				4	ORANGE	BLACK		16.00 (64)	
W2O-3 (1000') (500')	36"	36"	ROAD CLOSED XX FT				2 2	ORANGE	BLACK		9.00 (18) (18)	
W2O-5 (LEFT) (RIGHT)	48"	48"	LEFT LANE CLOSED 1/2 MILE	V		V	4 4	ORANGE	BLACK		16.00 (64) (64)	

Date 11/2020 03/2021

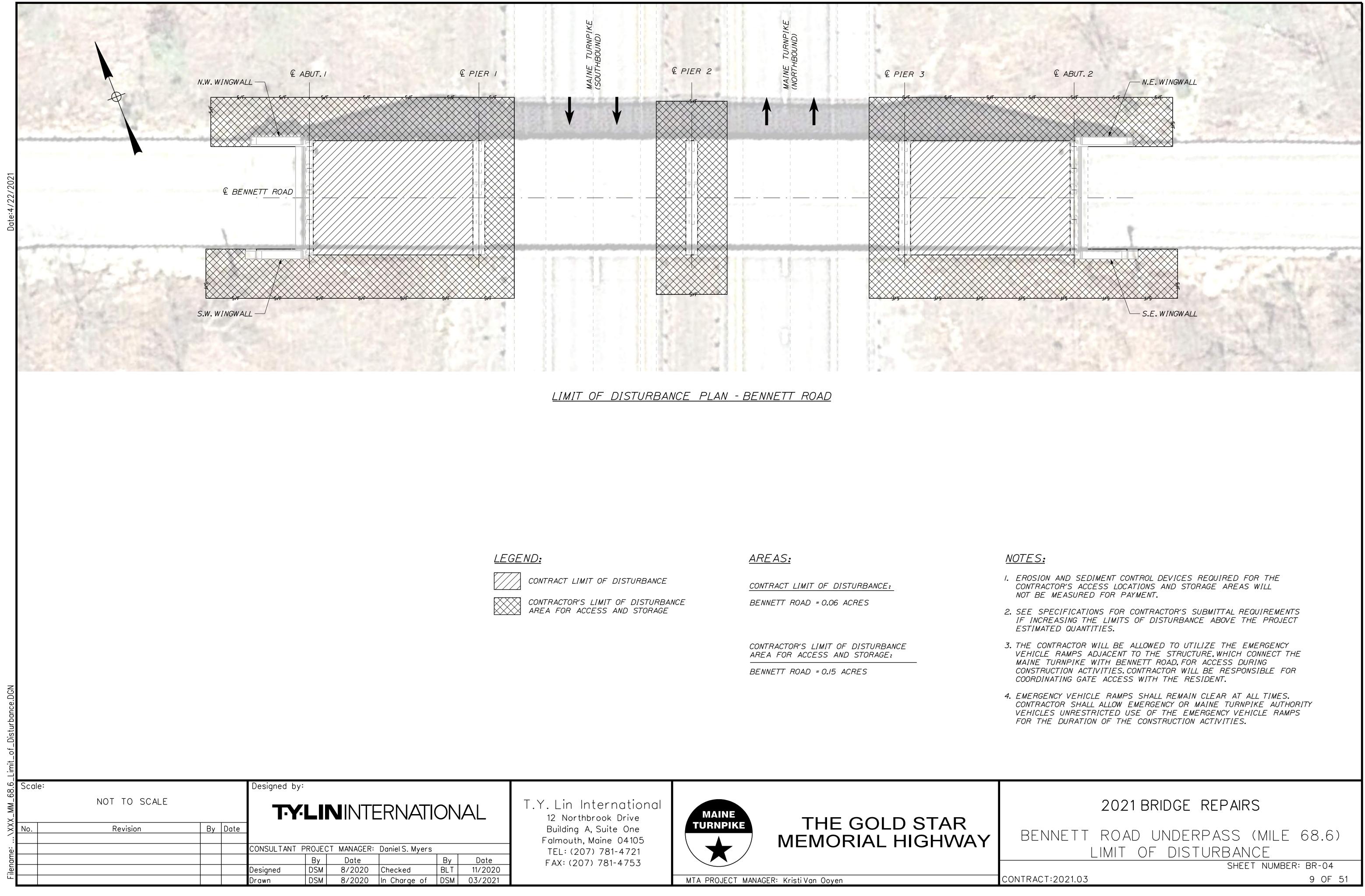
T.Y. Lin International 12 Northbrook Drive Building A, Suite One Falmouth, Maine 04105 TEL: (207) 781-4721 FAX: (207) 781-4753

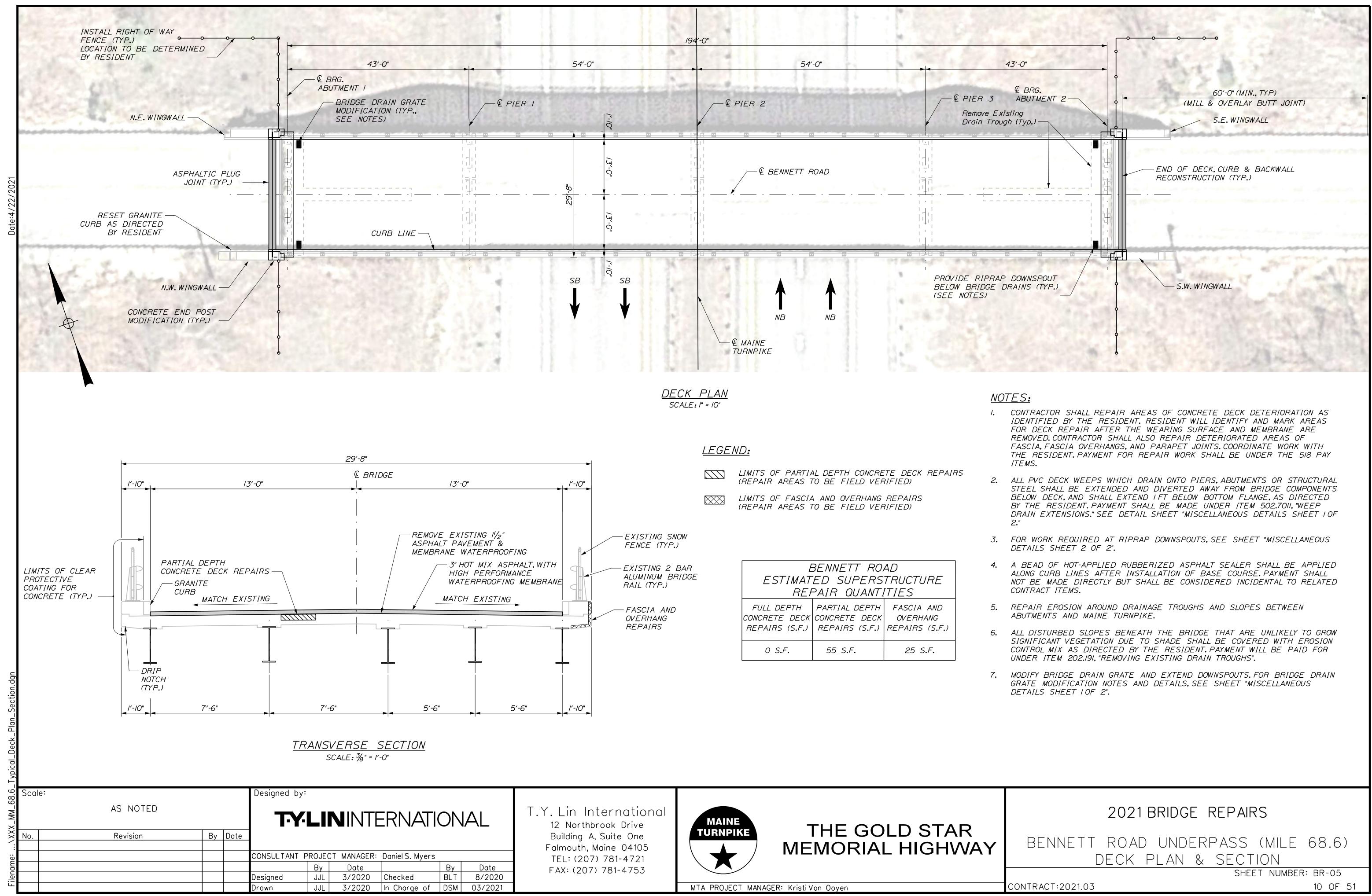


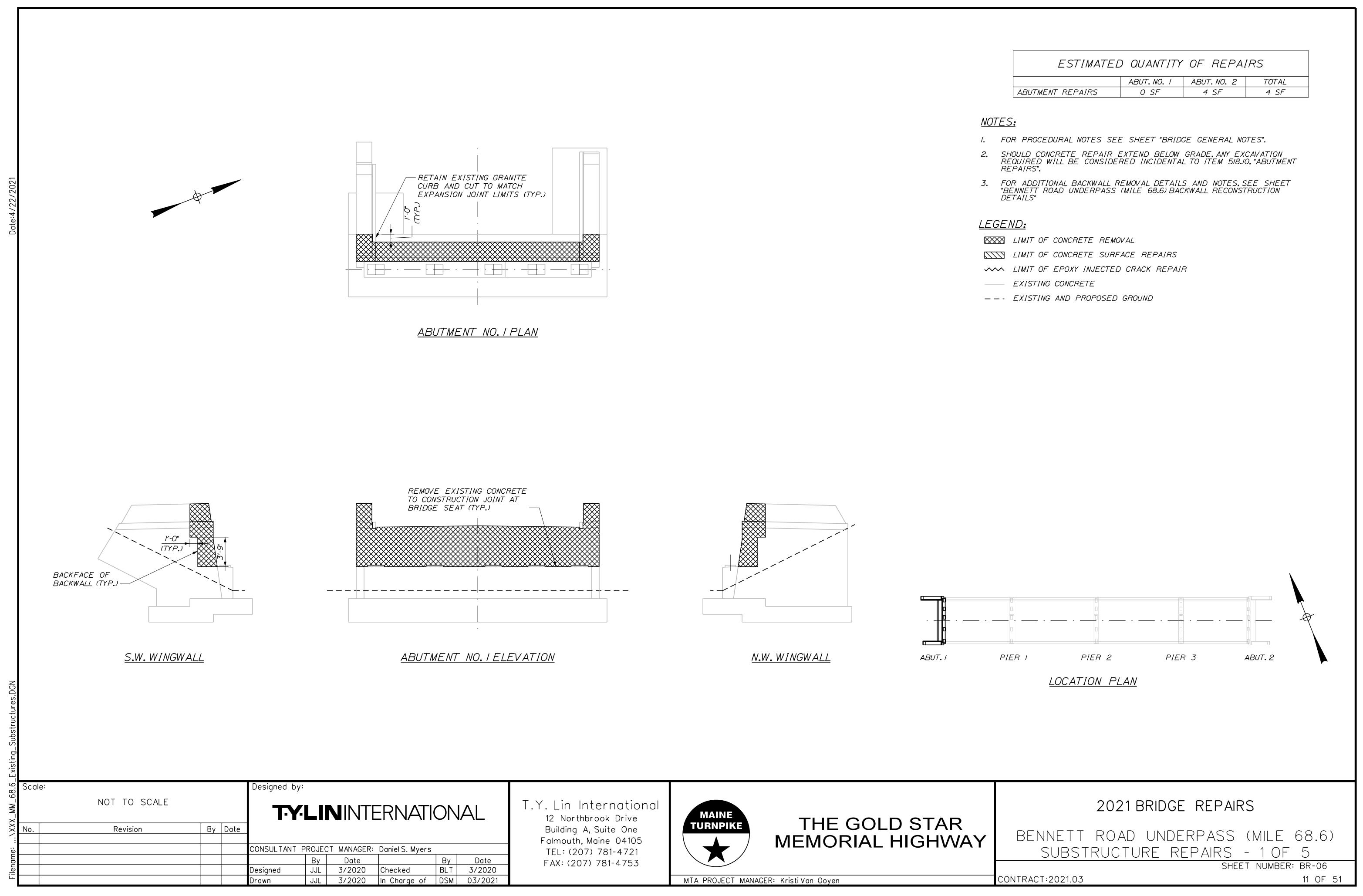


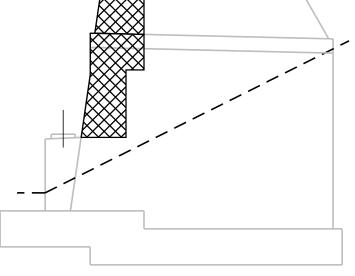
MTA PROJECT MANAGER: KristiVan Ooyen

2021 BRIDGE REPAIRS
BENNETT ROAD UNDERPASS (MILE 68.6) Maintenance of traffic sign summary
SHEET NUMBER: BR-03 CONTRACT:2021.03 8 OF 51

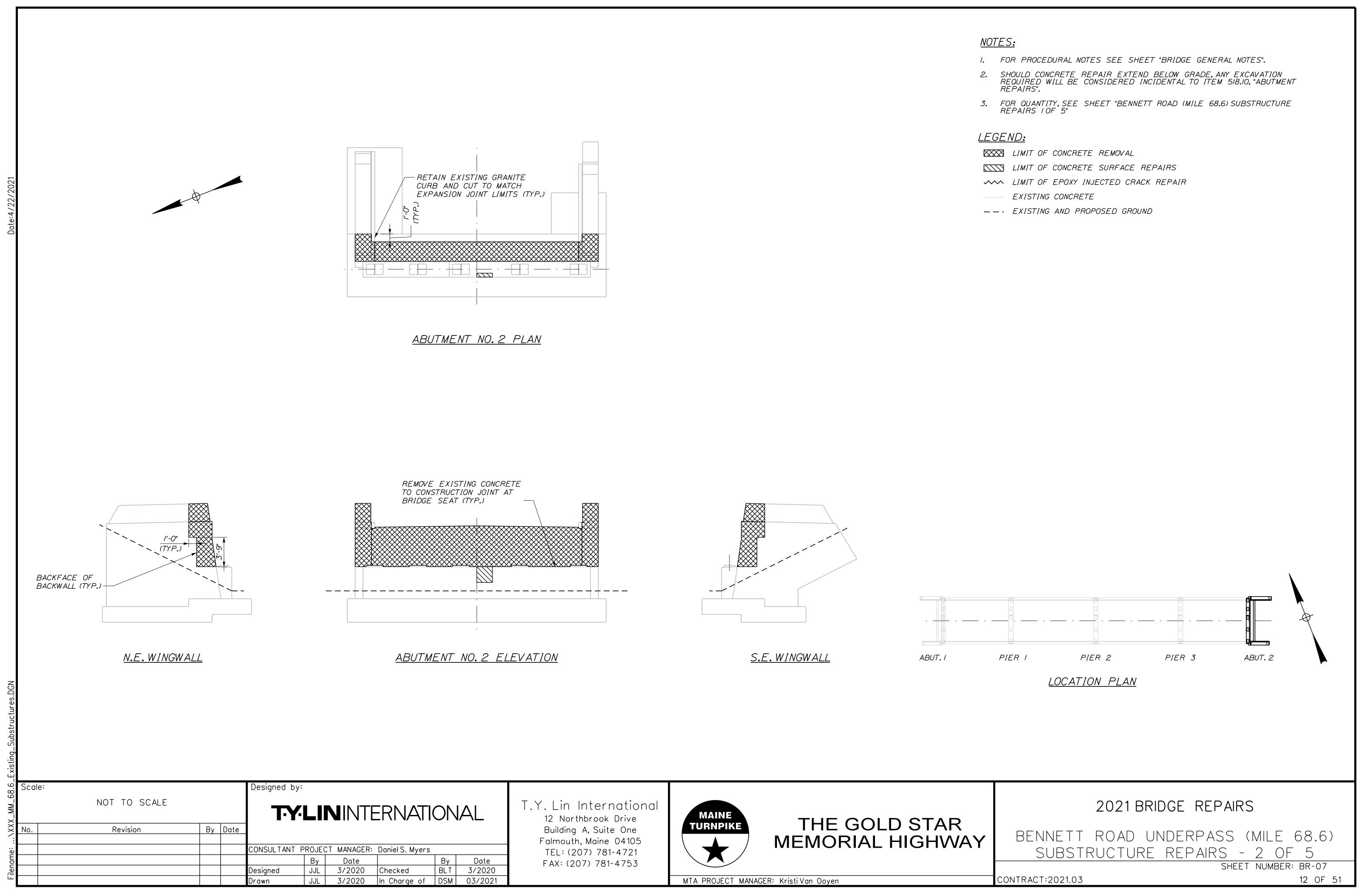




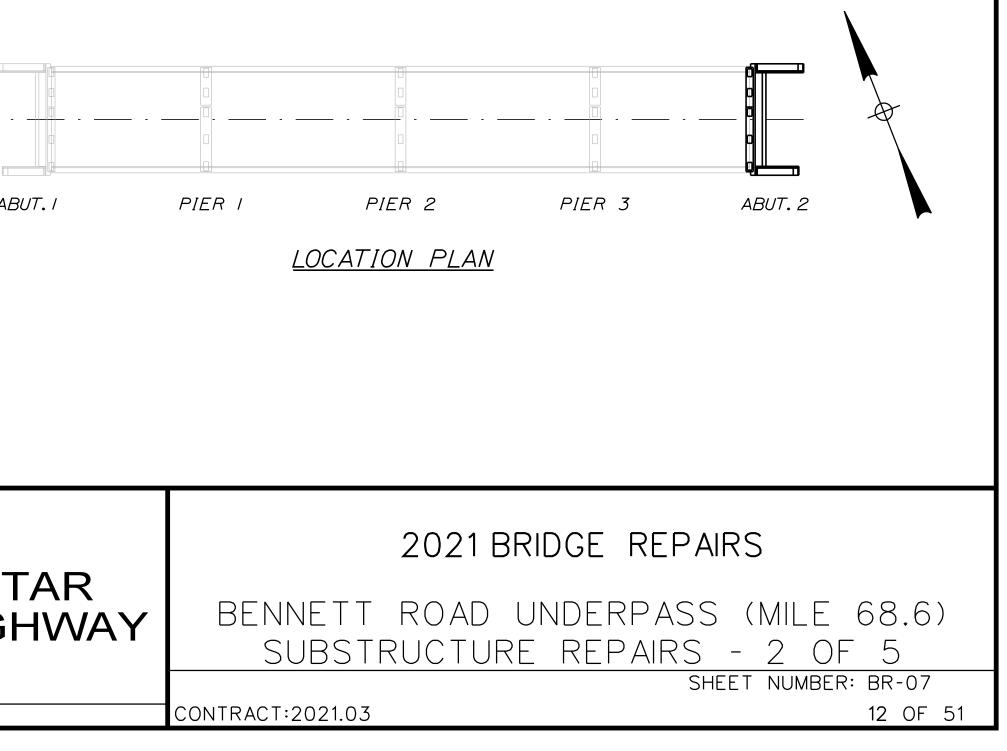


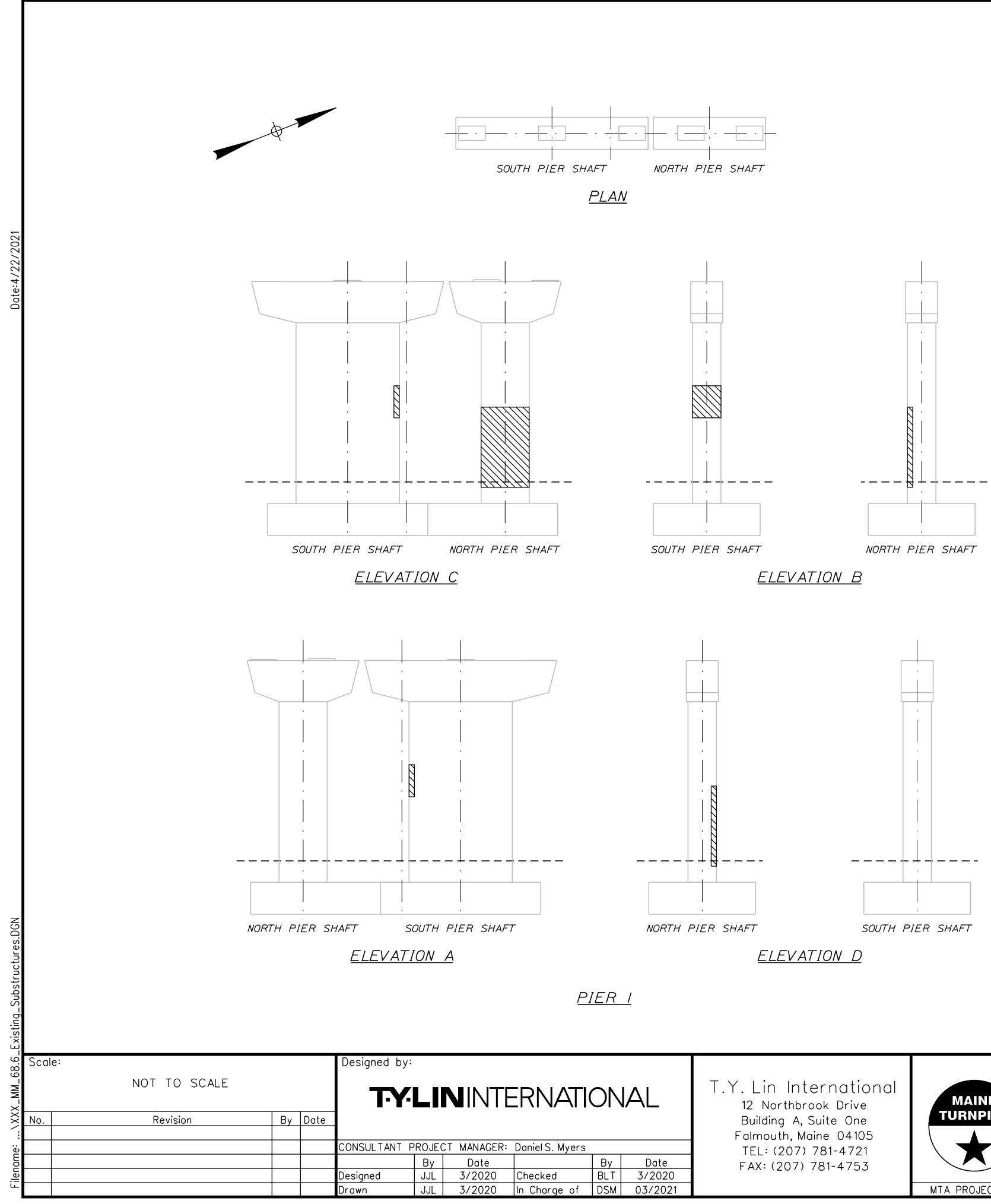


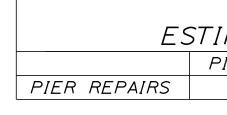
ESTIMATEL	D QUANTITY	OF REPA	IRS
	ABUT.NO. I	ABUT.NO. 2	TOTAL
ABUTMENT REPAIRS	0 SF	4 SF	4 SF









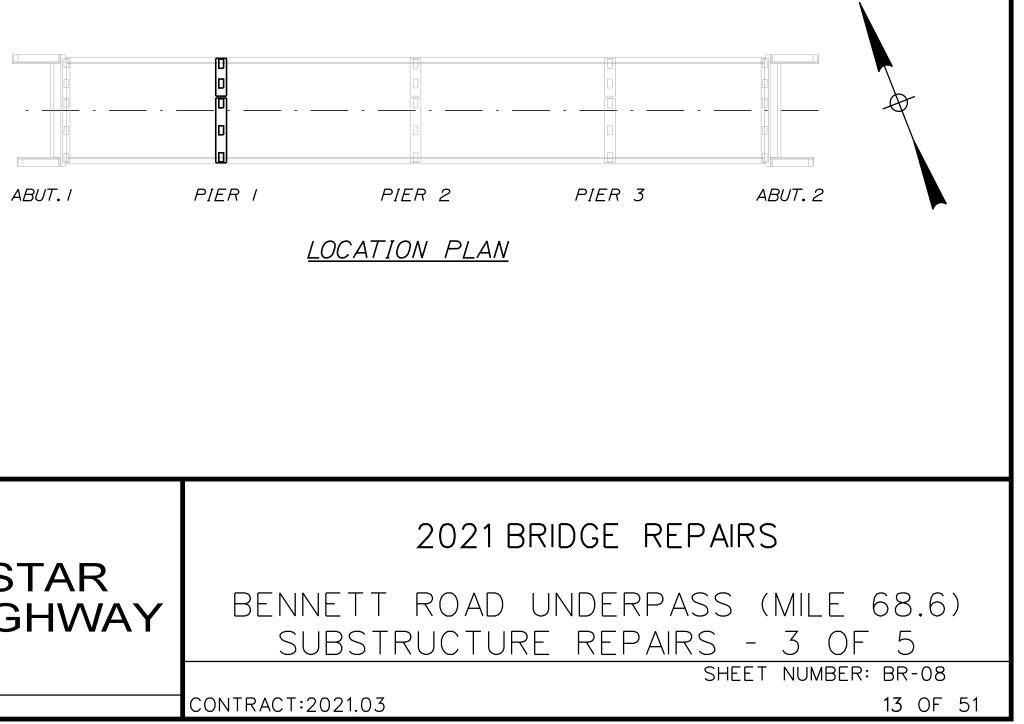


<u>NOTES:</u>

/.	FOR PROCEDO
2.	SHOULD CONC REQUIRED WI REPAIRS".

<u>LEGEND:</u>

	LIMIT OF	(
\sim	LIMIT OF	1
	EXISTING	
	EXISTING	



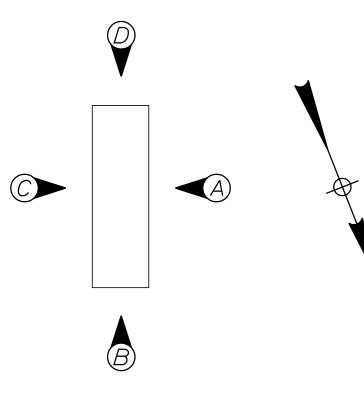
L T.Y. Lin International 12 Northbrook Drive Building A, Suite One Falmouth, Maine 04105 TEL: (207) 781-4721 FAX: (207) 781-4753 MLA DB0/ECT MANAGER: Kristivan Osuan

MTA PROJECT MANAGER: KristiVan Ooyen

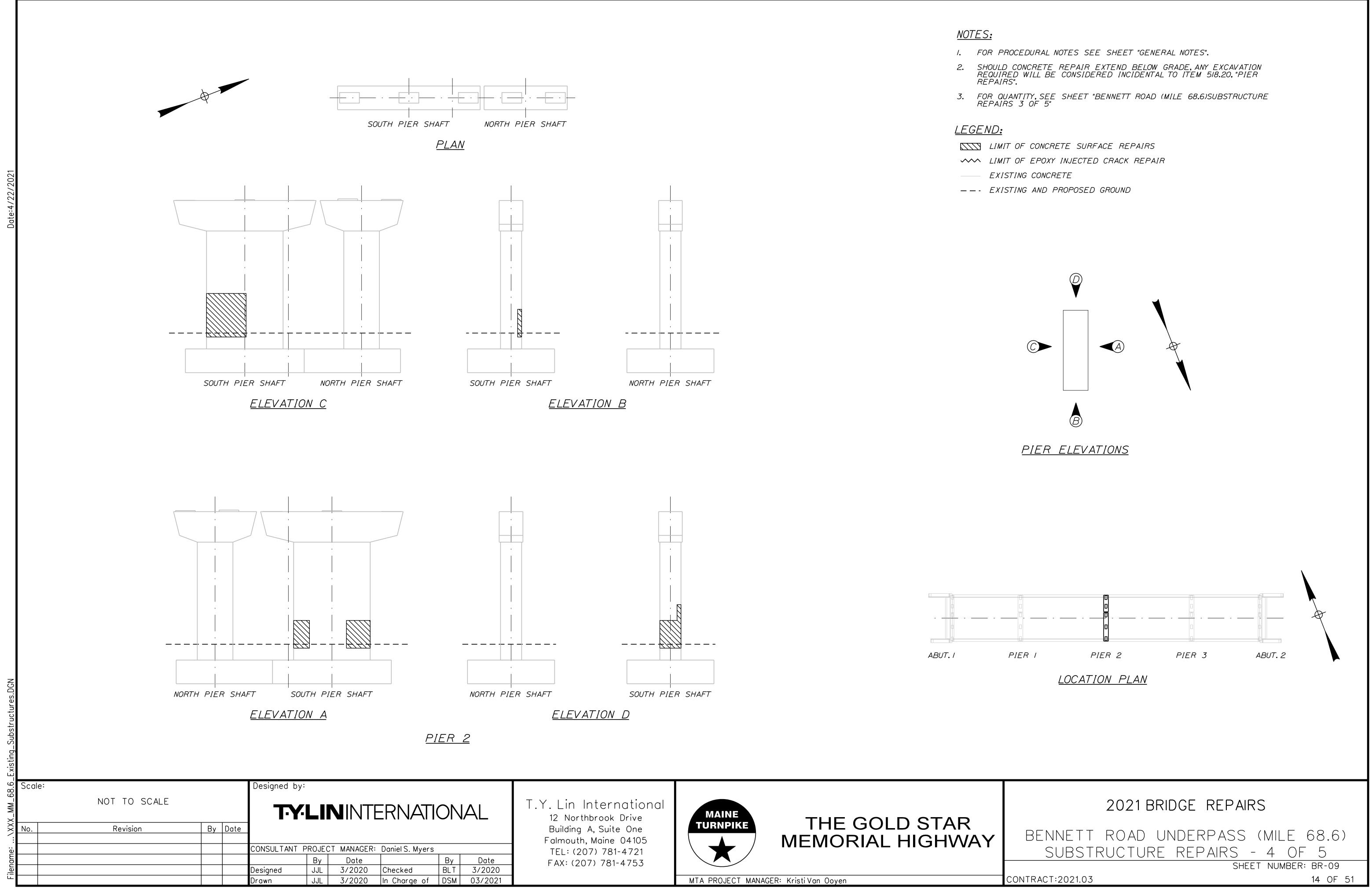
IMATED (QUANTITY O	F REPAIRS	S
PIER NO.1	PIER NO.2	PIER NO.3	TOTAL
65 SF	85 SF	45 SF	195 SF

DURAL NOTES SEE SHEET "BRIDGE GENERAL NOTES". NCRETE REPAIR EXTEND BELOW GRADE, ANY EXCAVATION WILL BE CONSIDERED INCIDENTAL TO ITEM 518.20, "PIER

CONCRETE SURFACE REPAIRS EPOXY INJECTED CRACK REPAIR CONCRETE AND PROPOSED GROUND



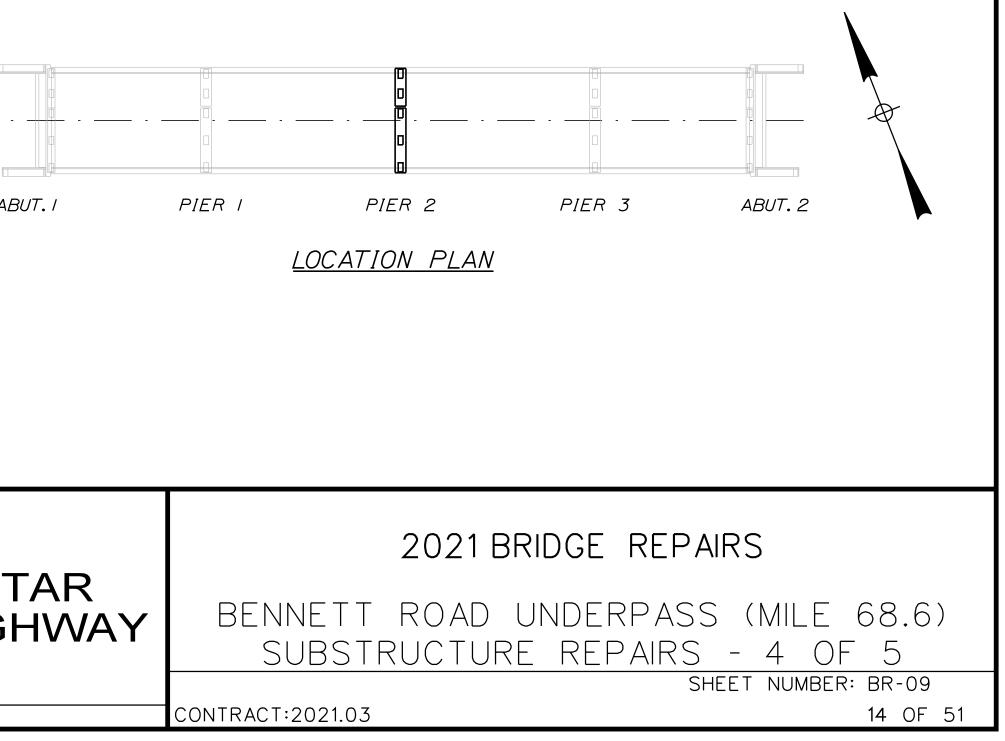


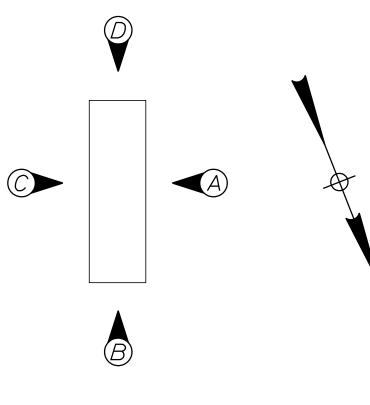


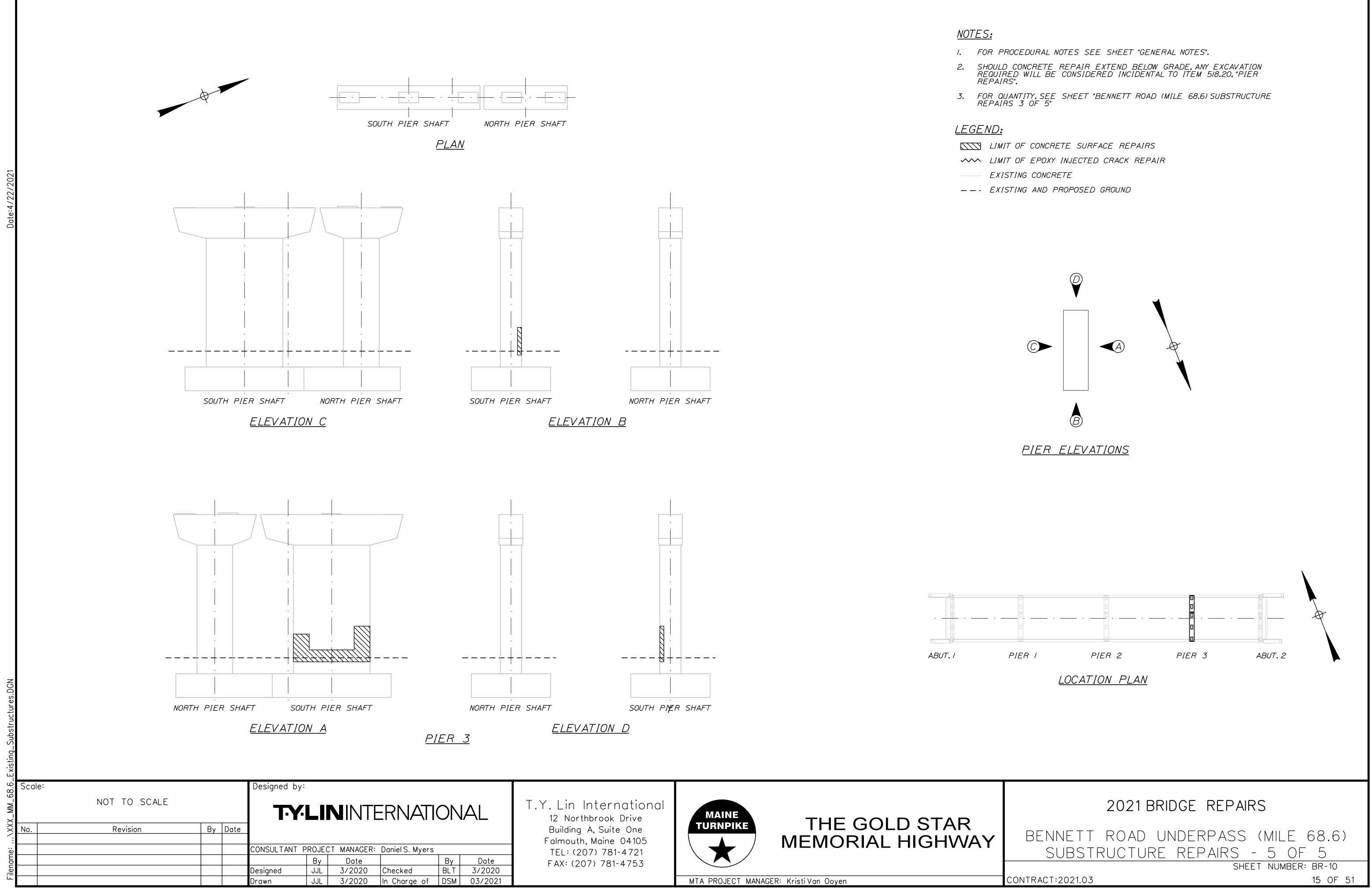


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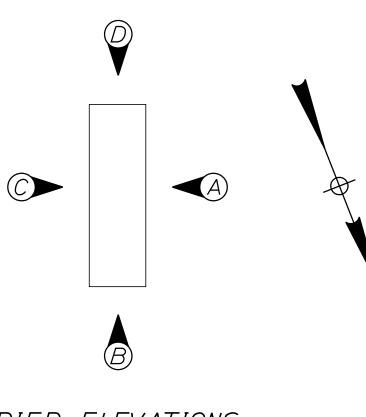


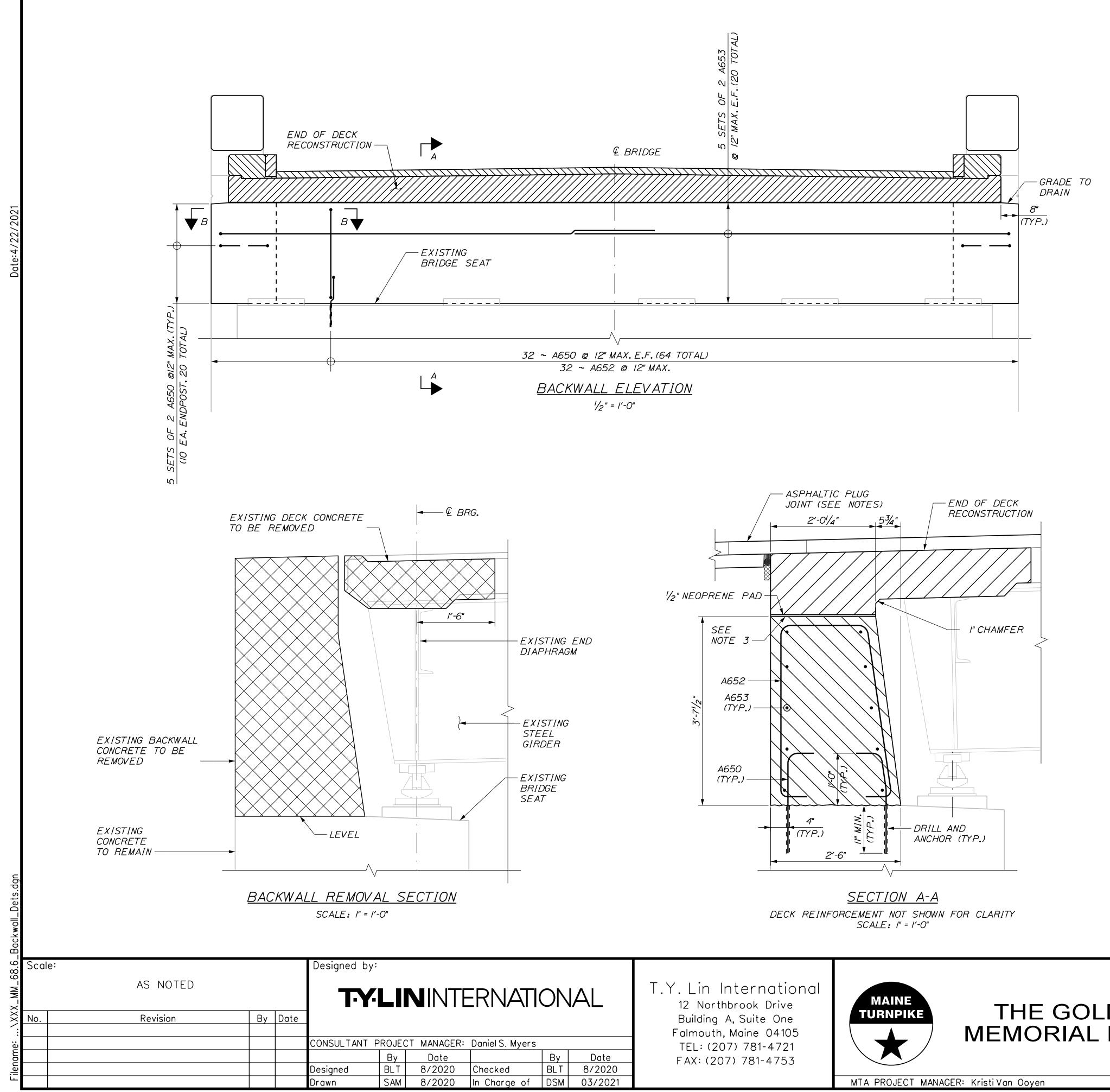




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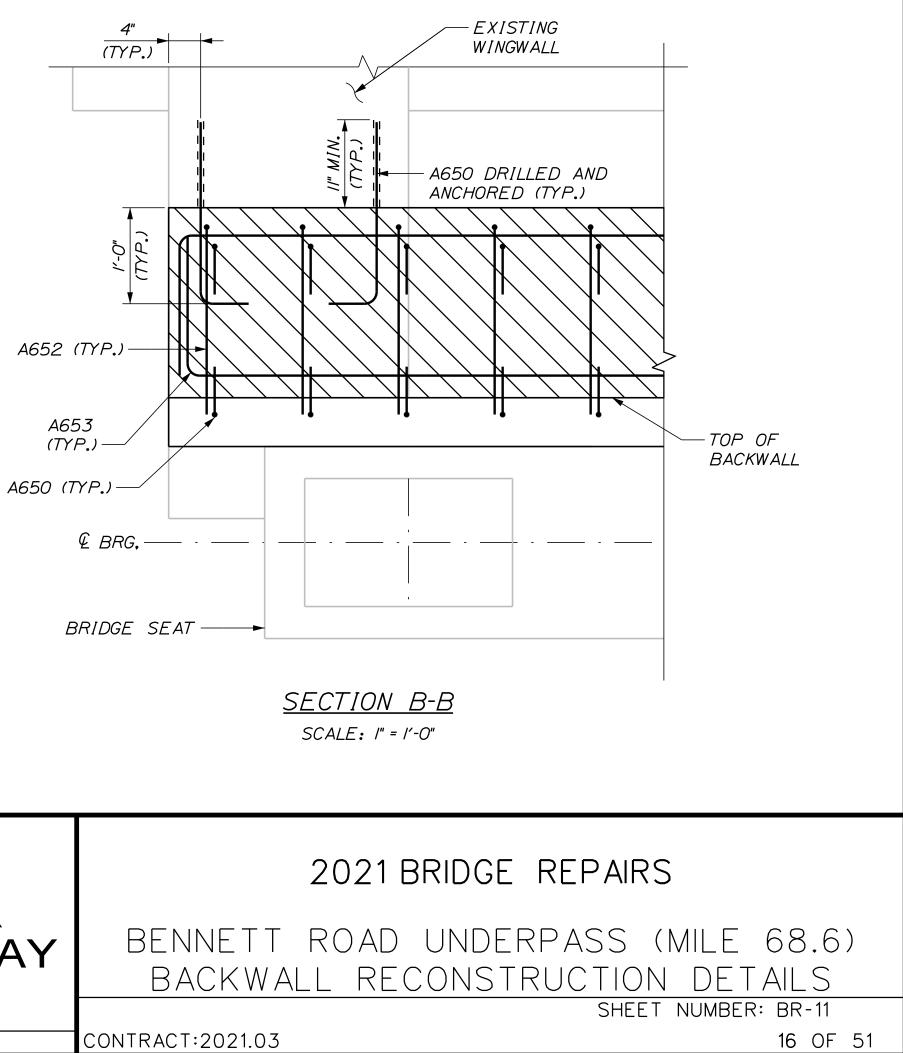
A653 (TYP**.**)-

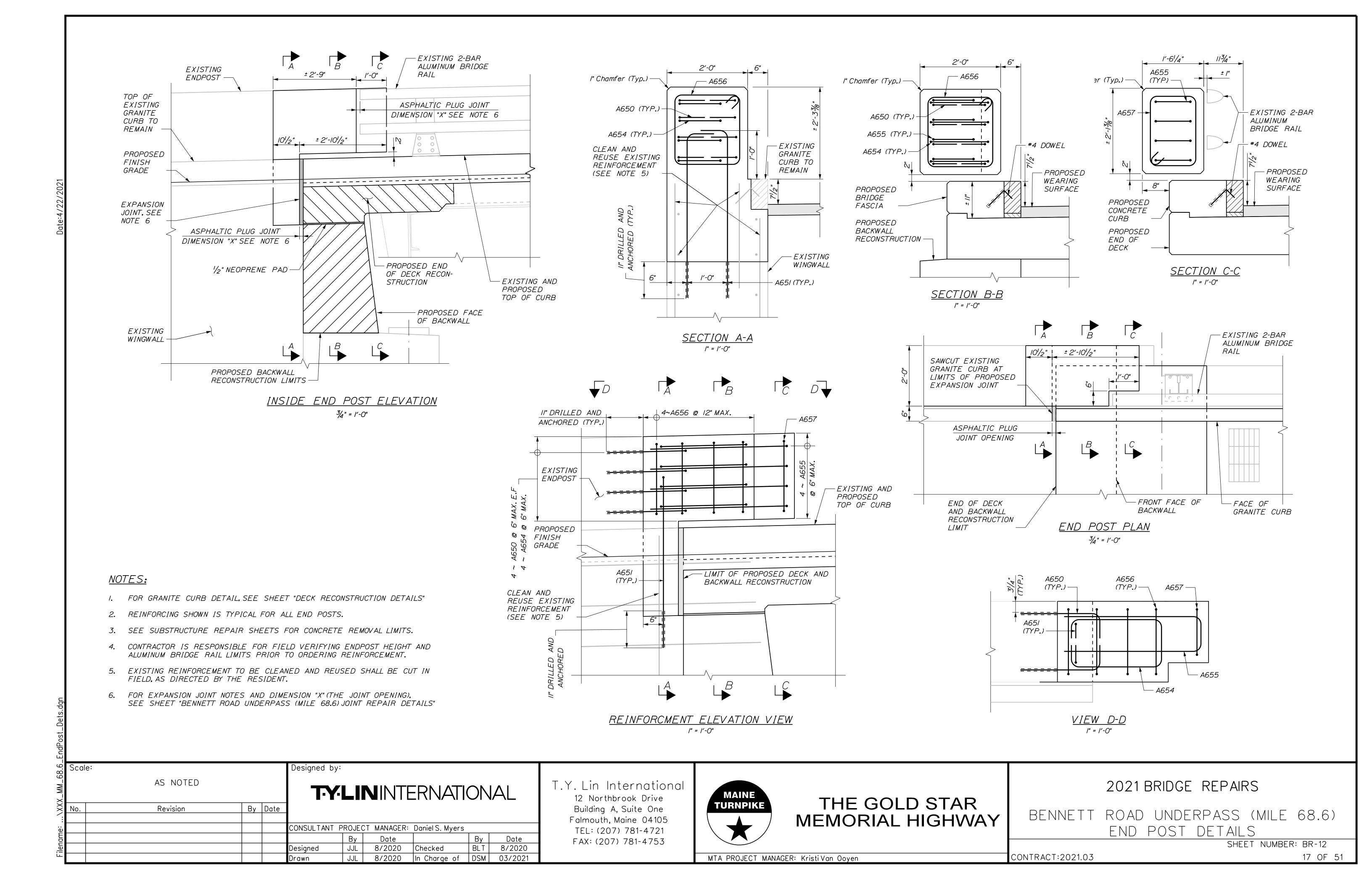
THE GOLD STAR MEMORIAL HIGHWAY

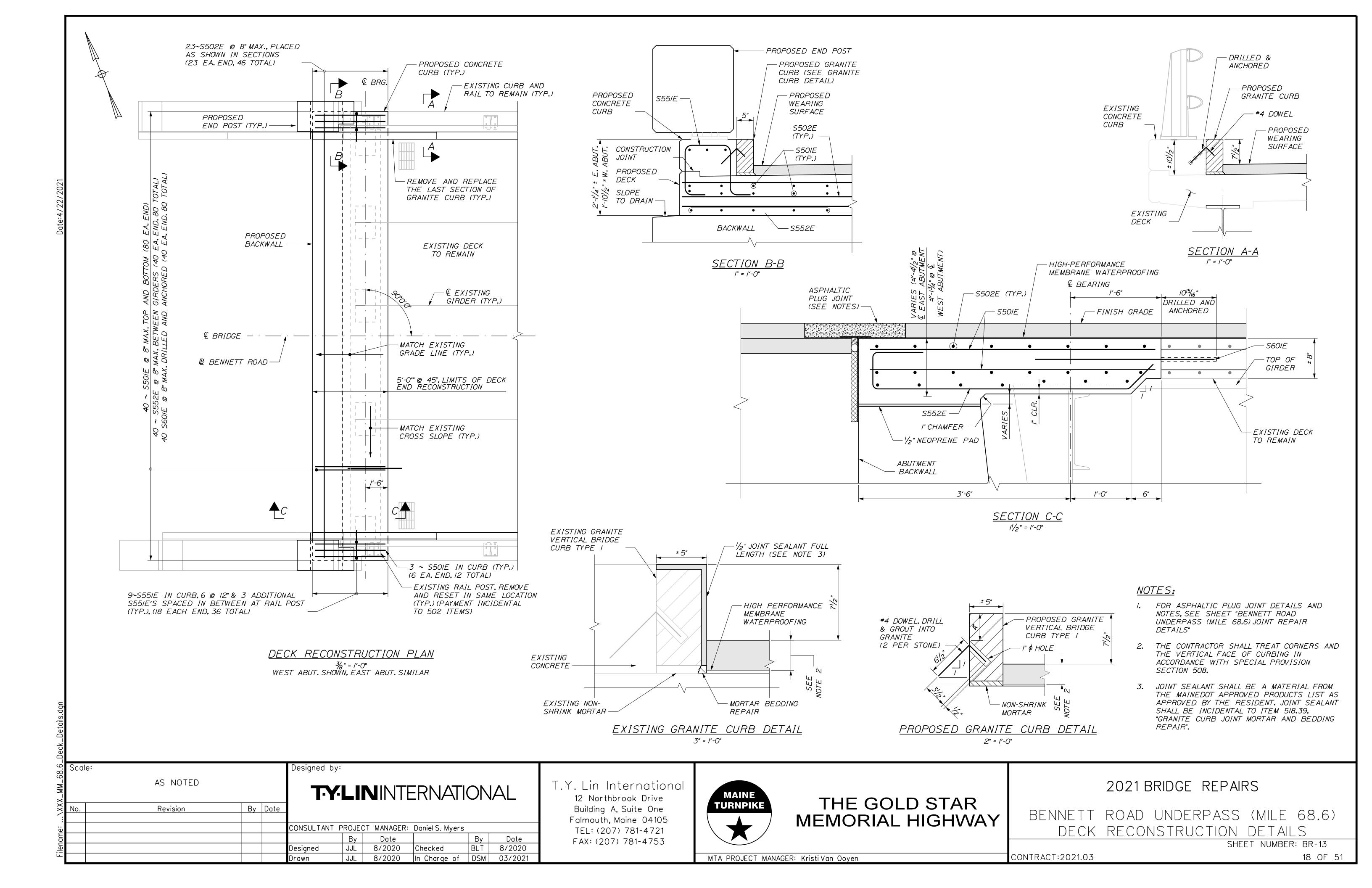
<u>NOTES:</u>

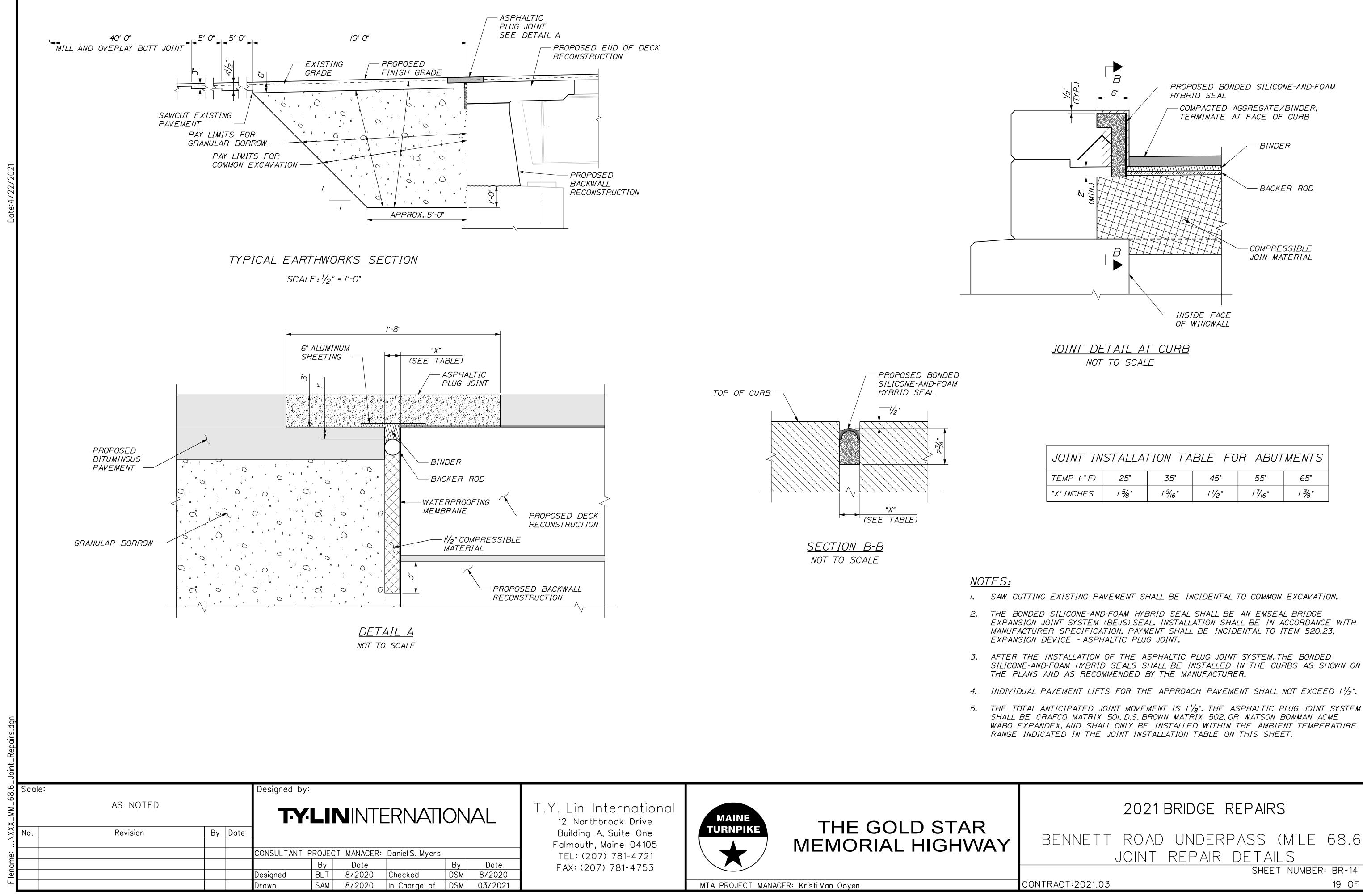
- I. FOR ASPHALTIC PLUG JOINT NOTES AND DETAILS, SEE "BENNETT ROAD UNDERPASS (MILE 68.6) JOINT REPAIR DETAILS" SHEET.
- 2. EXISTING CONCRETE TO BE REMOVED SHALL BE SAWCUT TO A MINIMUM DEPTH OF "AT THE REMOVAL LIMITS. PRIOR TO PLACING NEW CONCRETE, ALL INTERFACE SURFACES BETWEEN EXISTING AND PROPOSED CONCRETE SHALL BE CLEANED AND ROUGHENED TO THE SATISFACTION OF THE RESIDENT.
- 3. TOP OF BACKWALL SHALL HAVE A SMOOTH TROWEL FINISH AS DIRECTED BY THE RESIDENT.

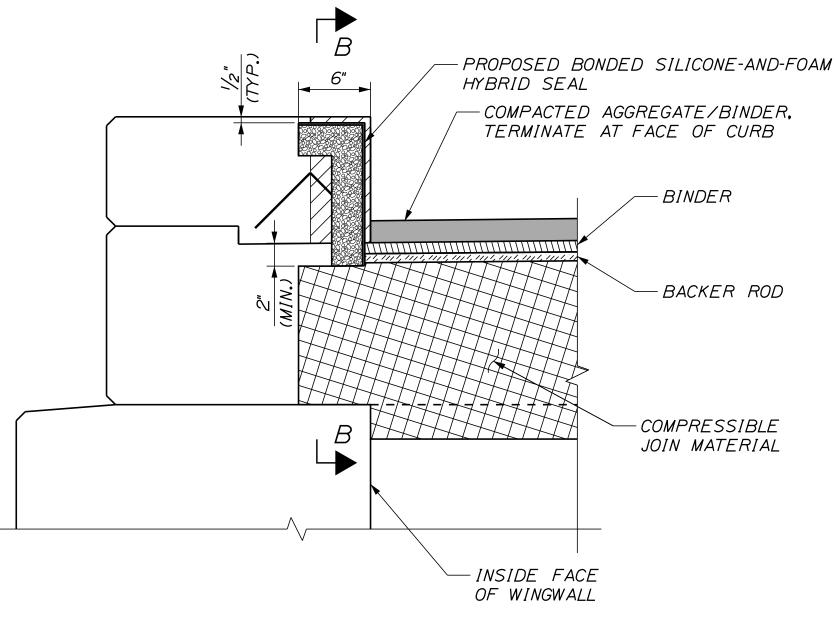
LEGEND: N.F. - NEAR FACE F.F. - FAR FACE E.F. - EACH FACE











4. INDIVIDUAL PAVEMENT LIFTS FOR THE APPROACH PAVEMENT SHALL NOT EXCEED 11/2".

JOINT IN	STALLA	TION TA	BLE FO	R ABUT	MENTS
TEMP (°F)	25°	35°	45°	55°	65°
"X" INCHES	⁵ /8"	1 %16"	11/2"	1 ⁷ /16 "	

BENNETT ROAD UNDERPASS (MILE 68.6)

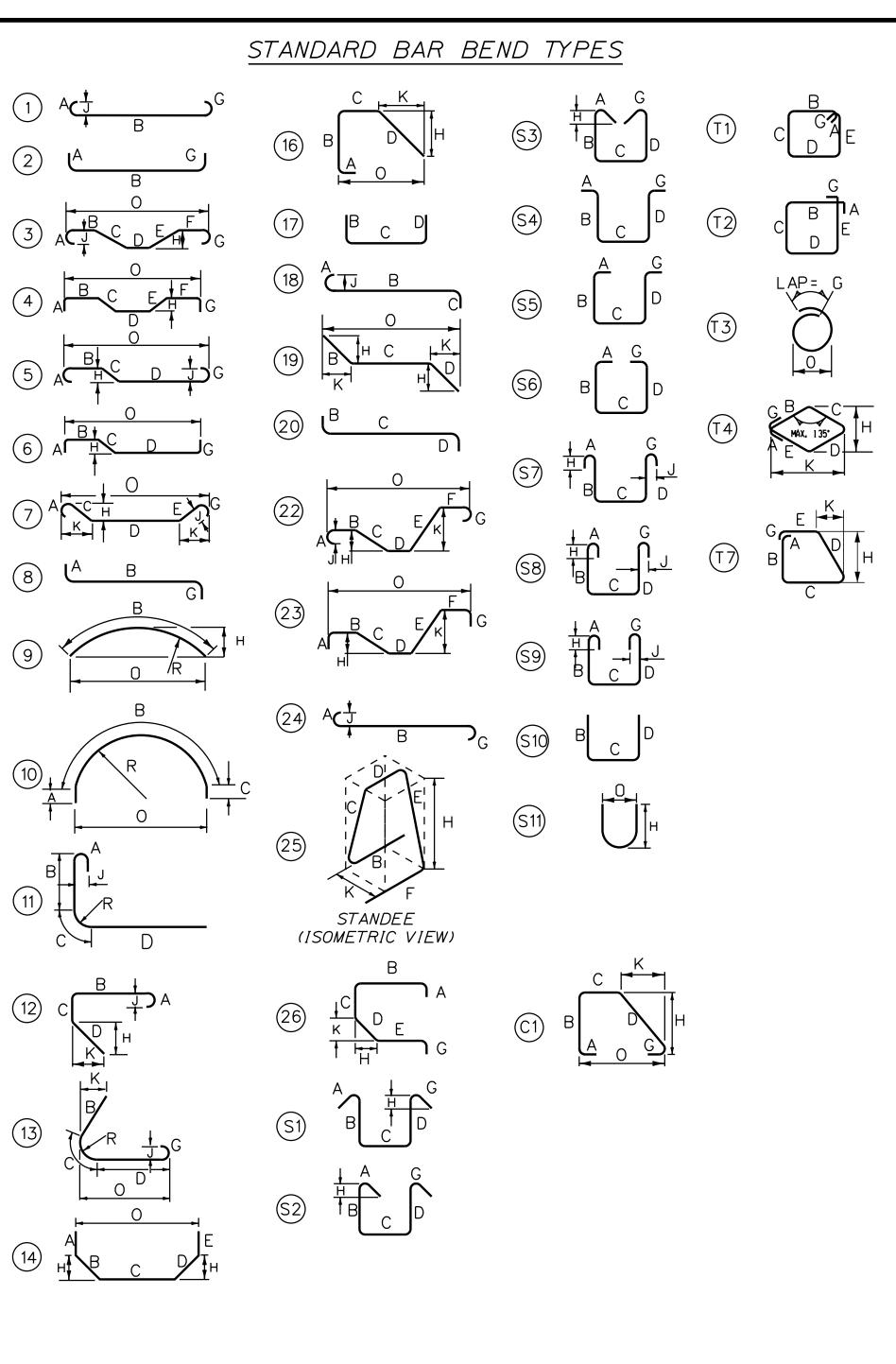
SHEET NUMBER: BR-14

19 OF 51

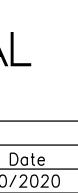
REINFORCING STEEL SCHEDULE

		STRAI	GHT BARS								
MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	ΤΥΡΕ	A	В	С	D
S50/E	172	SUPERSTI 4' -9"	HORIZ. LONGITUDINAL	A650	104	3' -0"	2	l' -0"	2' -0"	ABUTM	ENT NO
S502E	46	29' -4"	HORIZ. TRANSVERSE	A65/	4	5'-3"	2	/ O /′ -O"	4' - 3"	-	-
S60/E	80	3' -0"	HORIZ. DECK DOWEL	A652	32	10′ -6″	CI	/′ -0"	3' - 3"		3' -
				A653	20	18′ -6"	17	-	l´ -8"	16′ -10"	<i>O</i> "
				A654	8	8' -4"	S6	/ <i>′</i> - <i>O</i> "	2'-5"		2' -
				A655 A656	8 8	7′ -10" 8′ -2"	S6 <i>TI</i>	0" 8"	3′ -5" ′ -8"	/' -0" /' -9"	3' - ' -8
				A657	2	7' -2"	 	8"	/ -8 / -2"	/ -9"	/ -2
				/////						, ,	
								1		ABUTM	ENT NO
				B650 B65/	104 4	3′ -0" 5′ -3"	2 2	/' -O" /' -O"	2′ -0" 4′ -3"	-	-
				B652	32	10' -6"	<u> </u>	/ -0"	3' - 3"		3' -
				B653	20	18′-6″	17	-	l′ -8"	16' -10"	0'
				B654	8	8′ -4"	<i>S6</i>	/′ -0"	2′-5″	l′ -6"	2' -
				B655	8	7′ -10"	S6	<i>O</i> "	3′ -5"		3′ -
				B656	8	8'-2"		8"	/ -8"	/' -9"	/' - (
				<i>B</i> 657	2	7' -2"		8"	l' -2"	/′ -9″	<u> </u>
										SUPERS	TRUCT
				S55IE	36	5′ -3″	<i>S</i> 5	10"	/ -3"	/′ -/"	l'
				S552E	80	6′ -2"	26	10"	6"	4' -3"	7'
										_	+
											+
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MARK	QTY.	LENGTH	LOCATION	MARK	QTY.	LENGTH	ͳΫΡΕ	A	В	C	Ľ
Scale:				Designed	by:						
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No.		Revi	sion By Dat	e							
				CONSULTA		OJECT MA	NAGER:	Daniel S.	Myers		
							ate			By (Date
				Designed			2020	Checked			/2020
				Drawn			2020	In Charg			/2021

			BENT	BARS						
	D	E	F	G	Н	J	K	R	0	LOCATION
TME	NT NO. /		1			1				
	-	-	-	<i>O</i> "	-	-	-	-	-	DOWELS
D "	-	-	-	0"	-	-	- 5"	-	-	END POST VERT. DOWEL
3" /^"	3' -3"	-	-	l' -O"	-	-	5"	-	2' -1"	STEMWALL - STIRRUPS
10" 5"	0" 2' -5"	-	-	- /´-O"	-	-	-	-	-	BACKWALL - HORZ. BARS
5")"	<u>2</u> " -5" 3' -5"	-	-	0"	-	-	-	-	-	END POST HORIZONTAL END POST HORIZONTAL
)" Э"	1′ -8″	- 1′-9″	-	<u> </u>	-	-	-	-	-	END POST HORIZONTAL
9" 9"	/ -8* / -2"	/* -9* /* -9"	-	8" 8"	-	-	-	-	-	END POST VERT. STIRRUP END POST VERT. STIRRUP
1	1-2	7-9	-	0	-	-	-	-	-	END POST VERT. STIRRUP
ME	NT NO.2									
	-	_	_	<i>O</i> "	_	_	_	_	_	DOWELS
	_	_	_	0"	_	_	_	_	_	END POST VERT. DOWEL
3"	3' -3"	_	_	/′ -0"	_	_	5"	_	2' -1"	STEMWALL - STIRRUPS
0"	0"	-	_	-	-	_	-	-	-	BACKWALL - HORZ BARS
5"	2′ -5″	_	_	/′ -0"	-	_	_	_	-	END POST HORIZONTAL
,)"	3′ -5″	-	_	0"	-	-	-	-	-	END POST HORIZONTAL
,)"	/ -8"	/ -9"	-	8"	_	_	_	_	-	END POST VERT. STIRRUP
, 7"	/ -2"	/ -9"	-	8"	-	_	_	_	-	END POST VERT. STIRRUP
7 <i>ST</i>	I RUCTURE		1	I	1	1	I	I	1	
//////////////////////////////////////	/ -3"	-	-	10"	-	-	-	-	-	CURB STIRRUP
3"	7"	<i>O</i> "	-	0"	6"	-	6"	-	-	DECK END STIRRUP
		-			-		-			
					1					
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							R	R	R	LOCATION



4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.



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



THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KristiVan Ooyen

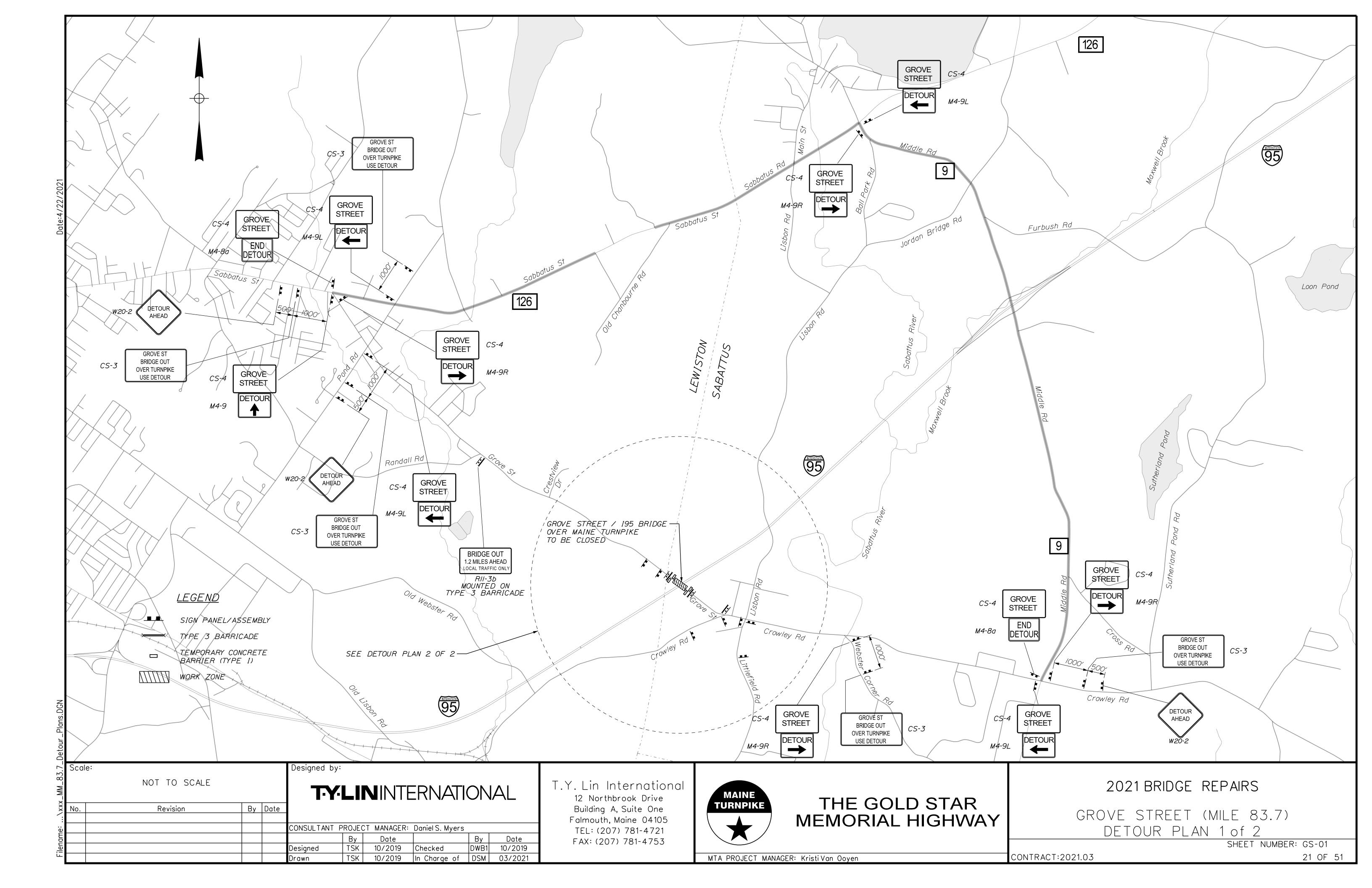
REINFORCING GENERAL NOTES:

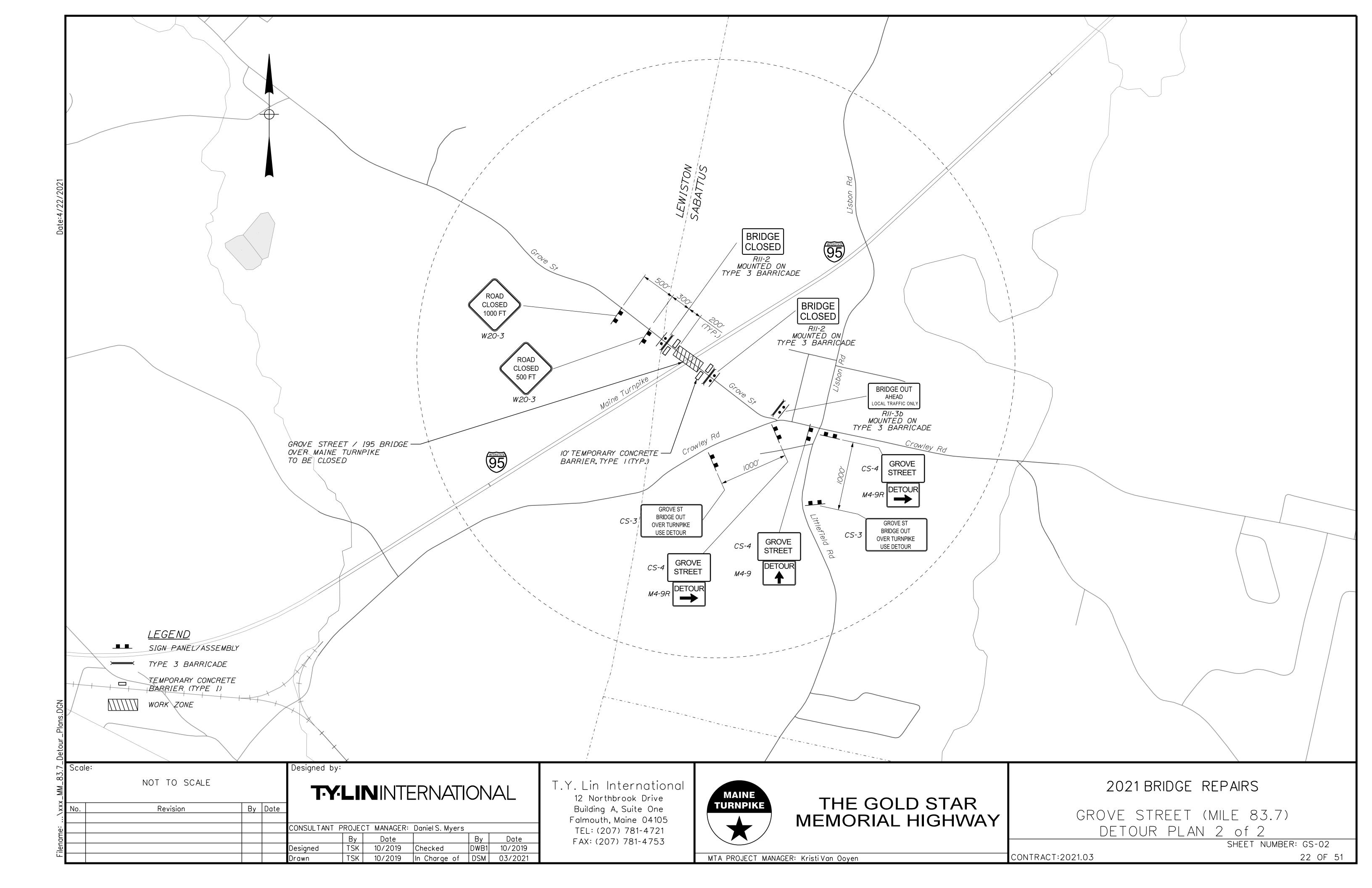
I. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO.18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED

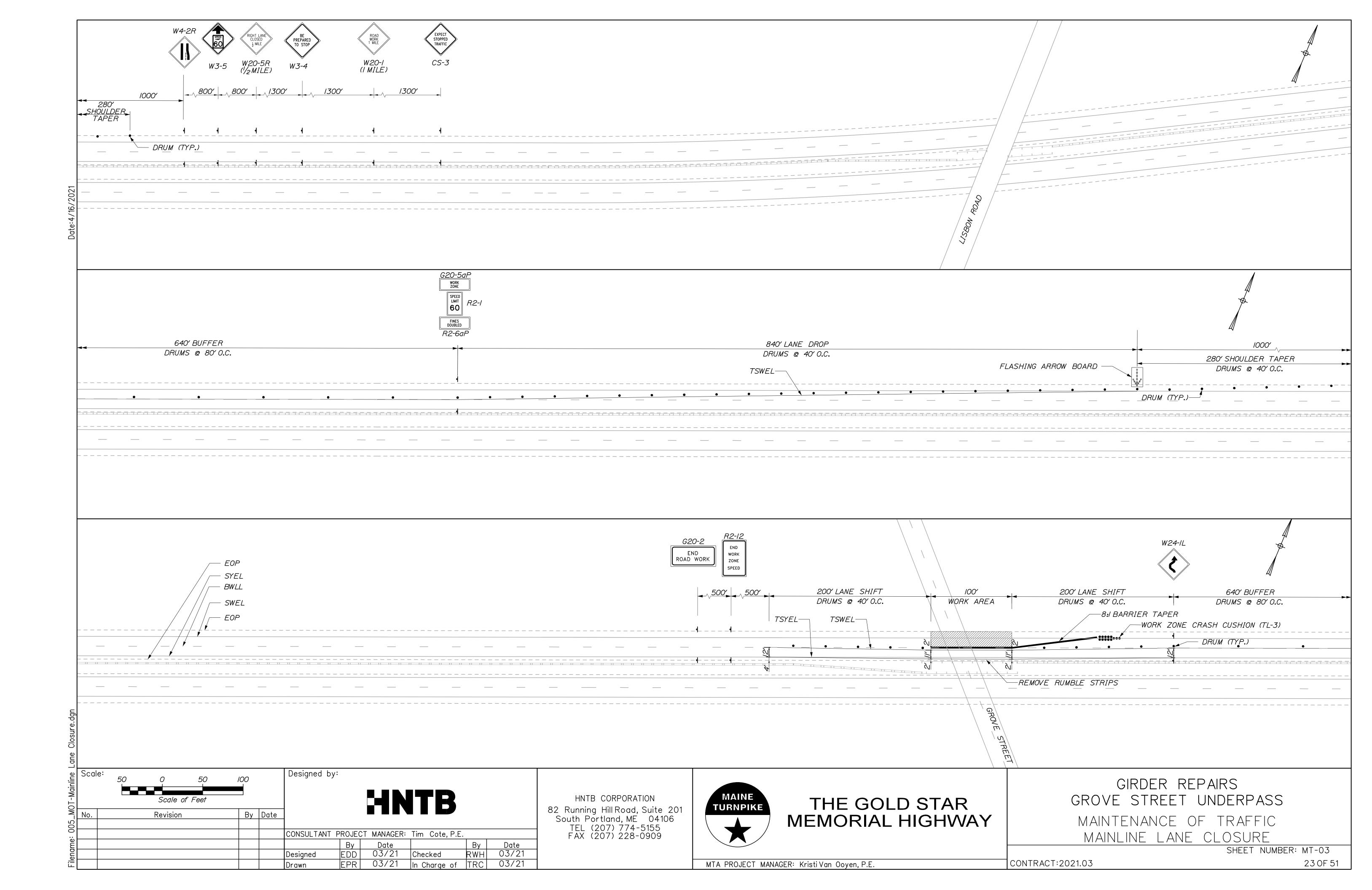
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".

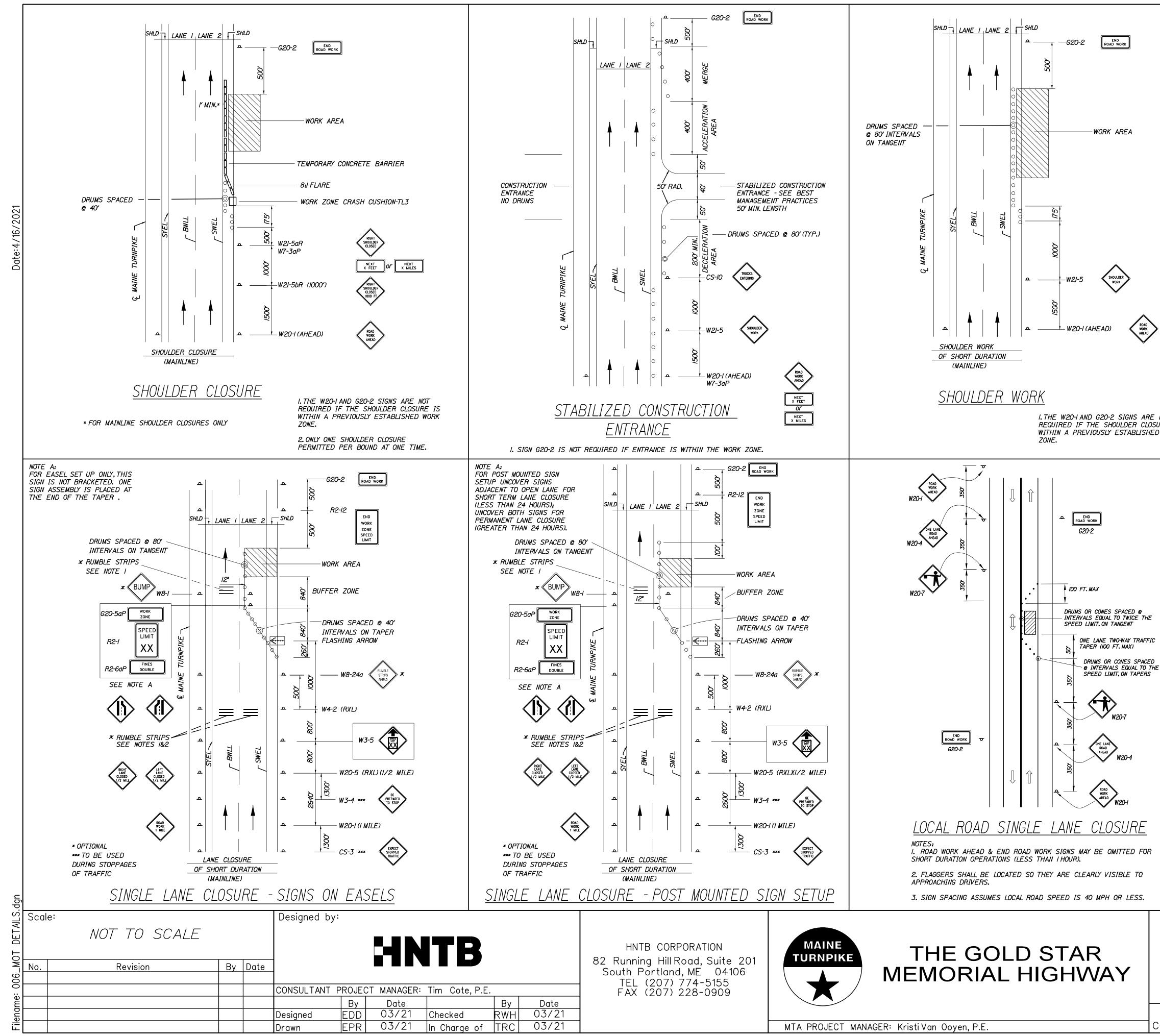
3. THE FIRST DIGIT FOLLOWING THE LETTER(S) OF THE MARK INDICATES THE SIZE OF THE BAR. ALL BARS WITH MARKS ENDING IN "E" SHALL BE EPOXY COATED.

2021 BRIDGE REPAIRS
BENNETT ROAD UNDERPASS (MILE 68.6) Reinforcing steel schedule
SHEET NUMBER: BR-15 CONTRACT:2021.03 20 OF 51







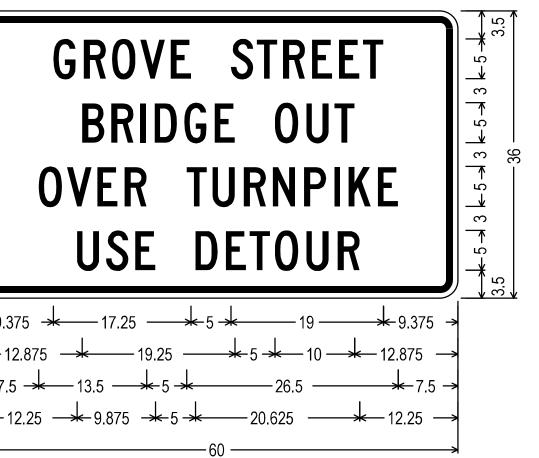


	<u>GENERAL MAINTENANCE OF TRAFFIC NOTES:</u> I. ALL PAVEMENT STRIPING & SIGNING SHALL BE IN ACCORDANCE WI THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", U.S.D.O.T., F.H.W.A., LATEST EDITION.	ТН
	2. THESE PLANS SHOW THE GENERAL CONDITION FOR TURNPIKE MAINLINE TRAFFIC CONTROL.DURING CONSTRUCTION, SLIGHT MODIFICATIONS IN CONSTRUCTION PROCEDURE MAY OCCUR AND MA REQUIRE SOME MINOR ADJUSTMENTS TO BE MADE IN THE FIELD ALL PROCEDURES MUST BE APPROVED BY THE RESIDENT.	
	3. THE CONTRACTOR SHALL REMOVE ALL PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH THE SPECIFICATIONS AND MUTCD.PAYMENT SHALL BE MADE UNDER ITEM 627.77 - REMOVING PAVEMENT MARKINGS.	
	4. EXPOSED BARRIER ENDS SHALL BE PROTECTED BY A WORK ZON CRASH CUSHION. PAYMENT WILL BE UNDER ITEM 527.341-WORK ZO CRASH CUSHION - TL-3.	
	5. SPEED LIMIT, STOP AND YIELD SIGNS SHALL BE A MINIMUM OF 5 ABOVE THE PAVEMENT.	7
	6. PRIOR TO SHIFTING TRAFFIC THE CONTRACTOR SHALL REMOVE TH EXISTING RUMBLE STRIPS AND PAVE FLUSH WITH THE SHOULDEN PAVEMENT. PAYMENT WILL BE UNDER ITEM 202.206 REMOVING RUMBLE STRIPS.	
	7. REMOVAL OF TEMPORARY PAVEMENT MARKINGS ON FINAL PAVEMEN SURFACE SHALL BE DONE IN SUCH A MANNER TO REMOVE AS LITTLE PAVEMENT AS POSSIBLE.	Т
NOT IRE IS WORK	 ABBREVIATIONS FOR ALL M.O.T. PLANS BWLL - BROKEN WHITE LANE LINE SWEL - SOLID YELLOW EDGE LINE SYEL - SOLID YELLOW EDGE LINE TTEMEL - TEMPORARY BONTED WHITE LANE LINE TTWEL - TEMPORARY SOLID WHITE LANE LINE TSWEL - TEMPORARY SOLID WHITE LANE LINE TSYCL - TEMPORARY SOLID VELLOW CENTER LINE TSYCL - TEMPORARY SOLID VELLOW CENTER LINE TEMPORARY RUMBLE STRIP NOTES IF RUMBLE STRIPS ARE USED THEY SHALL BE PLACED IN ONE OF THE FOLLOWING CONFIGURATIONS: ADJACENT TO THE WORK ZONE (UNIT) UPSTREAM FROM THE TAPER FOR THE WORKZONE (2 UNITS) BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS) BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS) BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS) BOTH ADJACENT TO THE WORKZONE AND PRIOR TO THE TAPER (3 UNITS) WISI SIGNS SHALL BE PLACED ADJACENT TO THE FIRST RUMBLE STRIP AT ANY LOCATION. ONLY ONE SET OF W8-240 CONFIGURATIONS. 2. RUMBLE STRIPS MAY BE PLACED UPSTREAM OF THE TAPER BETWEEN THE W3-5 SIGNS AND THE W4-2 SIGNS. IF RUMBLE STRIPS ARE INSTALLED PRIOR TO TAPER, W8-1 SIGNS SHALL BE PLACED ADJACENT TO THE FIRST STRIP AND THE W2-24 SIGNS SHALL BE MOVED TO 400' AFTER THE W20-5 SIGNS. 	
	GIRDER REPAIRS GROVE STREET UNDERPASS MAINTENANCE OF TRAFFIC DETAILS	
ONTR	SHEET NUMBER:	MT-04 24 OF 51

IDENTIFI-	SIZE SI	E OF GN		TEXT D	MENSIONS	(INCHES)	NUMBER	COL	OR	AREA
CATION NUMBER	WIDTH	HEIGHT	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW RTE.MKR	OF SIGNS REQUIRED	BACK- GROUND	LEGEND BORDER	SQUA FEE
CS-3	48"	48"	EXPECT STOPPED TRAFFIC	6" 6" 6"	4" 4"		2	ORANGE	BLACK	16.0 (32.
G20-2	48"	24"	END ROAD WORK				2	ORANGE	BLACK	8.0 (32.
G20-5aP	48"	24"	WORK ZONE	6" 6"	4.5"		2	ORANGE	BLACK	8.0 (/6.0
R2-1 (60)	48"	60"	SPEED LIMIT 60	CO STANDA 2004	DIMENSION NFORM TO NRD HIGHM EDITION A SUPPLEME	THE AY SIGNS ND 2012	2	WHITE	BLACK	20.((40.
R2-6aP	48"	24"	FINES DOUBLE	6" 6"	4.5"		2	WHITE	BLACK	8.0 (16.0
R2-12	48"	60"	END WORK ZONE SPEED LIMIT	COI STANDA 2004 I	DIMENSION NFORM TO RD HIGHW EDITION A SUPPLEME	THE AY SIGNS ND 2012	2	WHITE	BLACK	20.0 (40.
W3-4	48"	48"	BE PREPARED TO STOP				2	ORANGE	BLACK	16.0 (32
W3-5 (60)	48"	48"	SFED 60				2	ORANGE	BLACK	16.0 (32.
W4-2 (LEFT) (RIGHT)	48"	48"					2 2	ORANGE	BLACK	/6.((32 (32
W20-I (I MILE)	48"	48"	ROAD WORK XXXX				2	ORANGE	BLACK	/6.0 (32.0
W20-5L (I/2" MILE) (LEFT) (RIGHT)	48"	48"	LEFT LANE CLOSED ¹ / ₂ MILE				22	ORANGE	BLACK	/6.0 (32. (32.
W24-I (LEFT)	48"	48"					2	ORANGE	BLACK	16.0 (32.

Sumr	Scal	e:	Designed by:								
)T SignSumm		NOT TO SCALE				ITB					
TOM_TO	No.	Revision	By	Date							
00					CONSULTANT PROJECT MANAGER: Tim Cote, P.E.						
me						By	Date		By	Date	
Filename					Designed	EDD	03/21	Checked	RWH	03/21	
File					Drawn	EPR	03/21	In Charge of	TRC	03/21	

DETOUR CONSTRUCTION SIGN SUMMARY										
IDENTIEI-	IDENTIFI- SIZE OF			TEXT L	DIMENSIONS	(INCHES)	NUMBER	COLOR		AREA IN
CATION	SIGN		TEXT	LETTER		ARROW	OF SIGNS	BACK-	LEGEND	SQUARE
NUMBER	WIDTH	HEIGHT		HEIGHT	SPACING	RIE.MKR.	REQUIRED	GROUND	BORDER	FEET
CS-3	60"	36"	GROVE STREET BRIDGE OUT OVER TURNPIKE USE DETOUR	5C 5C 5C 5C	3" 3" 3"		7	ORANGE	BLACK	15.00 (105)
CS-4	36"	24"	GROVE STREET	5D 5D	4"		14	ORANGE	BLACK	6.00 (84)
M4-8a	24"	<i> 8</i> "	END DETOUR	TEXT DIMENSIONS SHALL CONFORM TO THE STANDARD HIGHWAY SIGNS 2004 EDITION AND 2012 SUPPLEMENT		2	ORANGE	BLACK	3.00 (6)	
M4-9	30"	24"				2	ORANGE	BLACK	5.00 (10)	
M4-9(L)	30"	24"					4	ORANGE	BLACK	5.00 (20)
M4-9(R)	30"	24"					6	ORANGE	BLACK	5.00 (30)
RII-2	48"	30"	BRIDGE CLOSED				2	WHITE	BLACK	10.00 (20)
RII-3b	60"	30"	BRIDGE CLOSED AHEAD LOCAL TRAFFIC ONLY				2	WHITE	BLACK	12.50 (25)
W20-2	36"	36"	DETOUR AHEAD				3	ORANGE	BLACK	9.00 (27)
W20-3 (500) (1000)	36"	36"	ROAD CLOSED 500 FT				/	ORANGE	BLACK	9.00 (9) 9.00 (9)



←9.375 → 17.25 → 5 → 19 → 4·9
< 12.875 ↓ 19.25 ↓ - 5 - ↓ - 10 ↓ - 12.8
←7.5 → 13.5 → 5 → 26.5 →
<−12.25 → 9.875 → 5 → 20.625 → 12

THE GOLD STAR MEMORIAL HIGHWAY

2.250" Radius, 0.875" Border, 0.625" Indent, Black on Orange; [GROVE STREET] Black C 2K; [BRIDGE OUT] Black C 2K; [OVER TURNPIKE] Black C 2K; [USE DETOUR] Black C 2K;

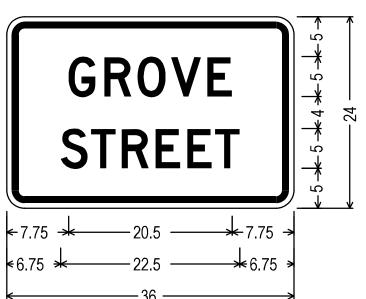
HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909

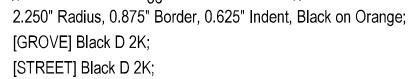
MTA PROJECT MANAGER: KristiVan Ooyen, P.E.

MAINE

TURNPIKE

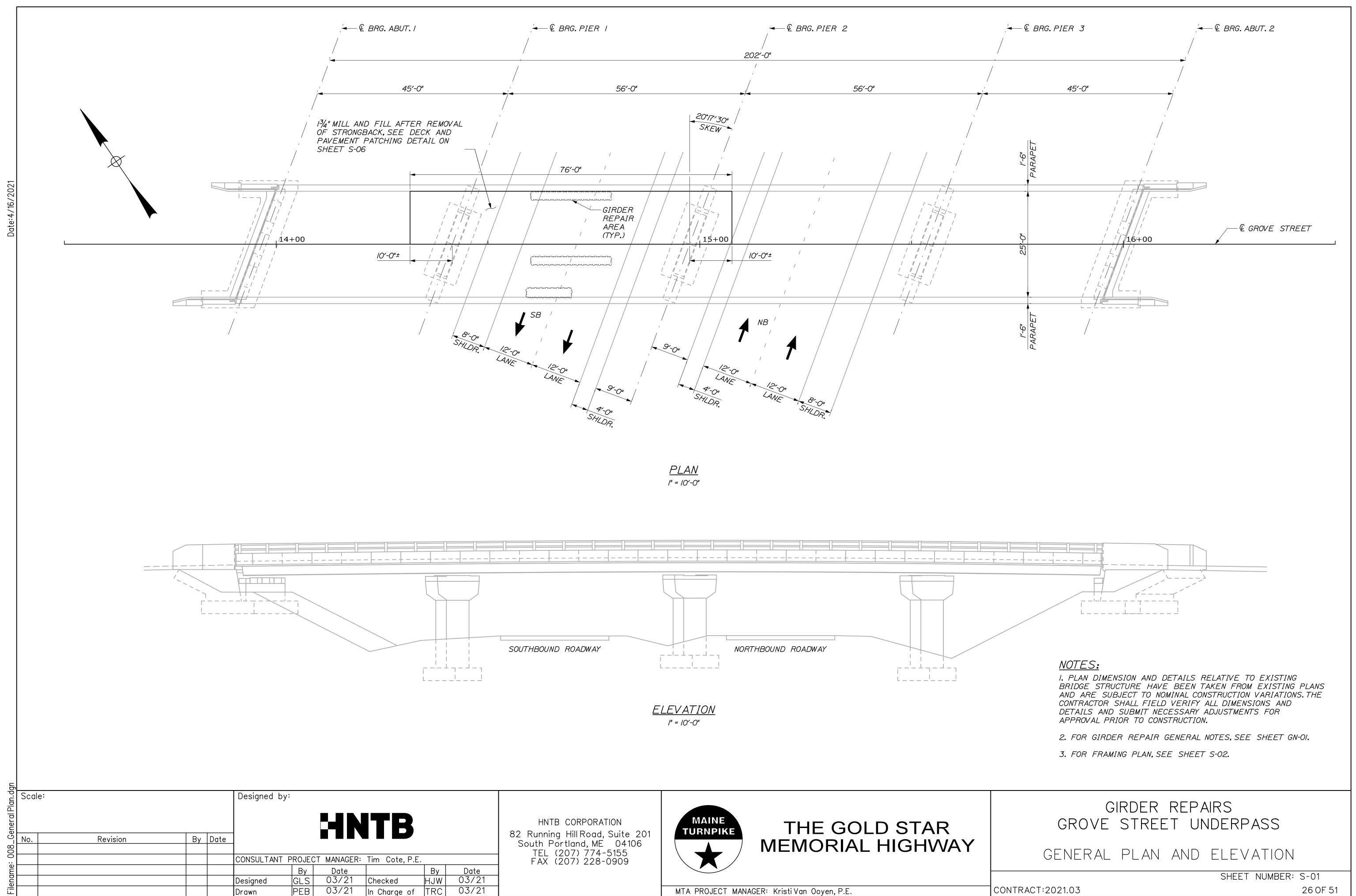
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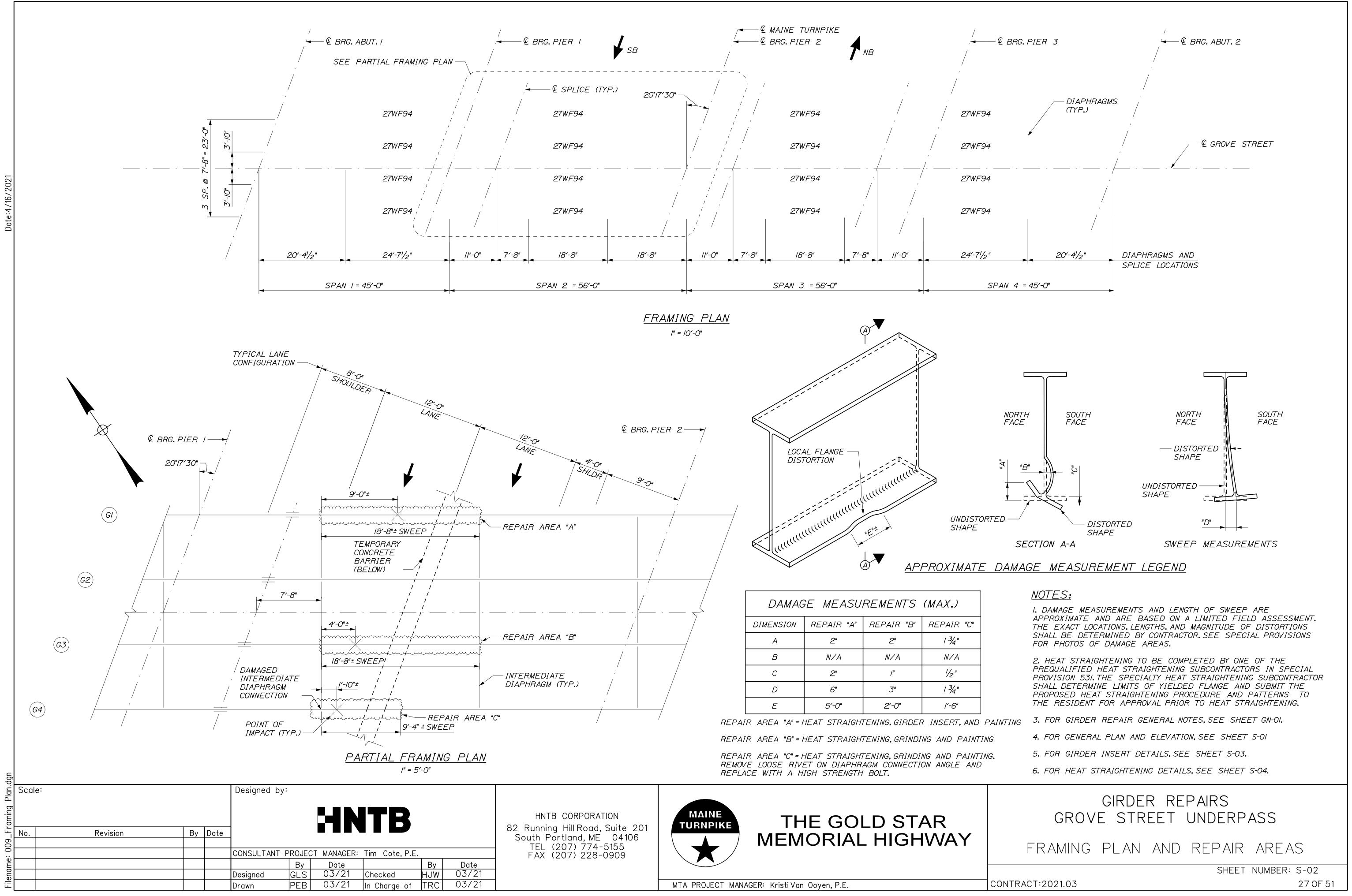


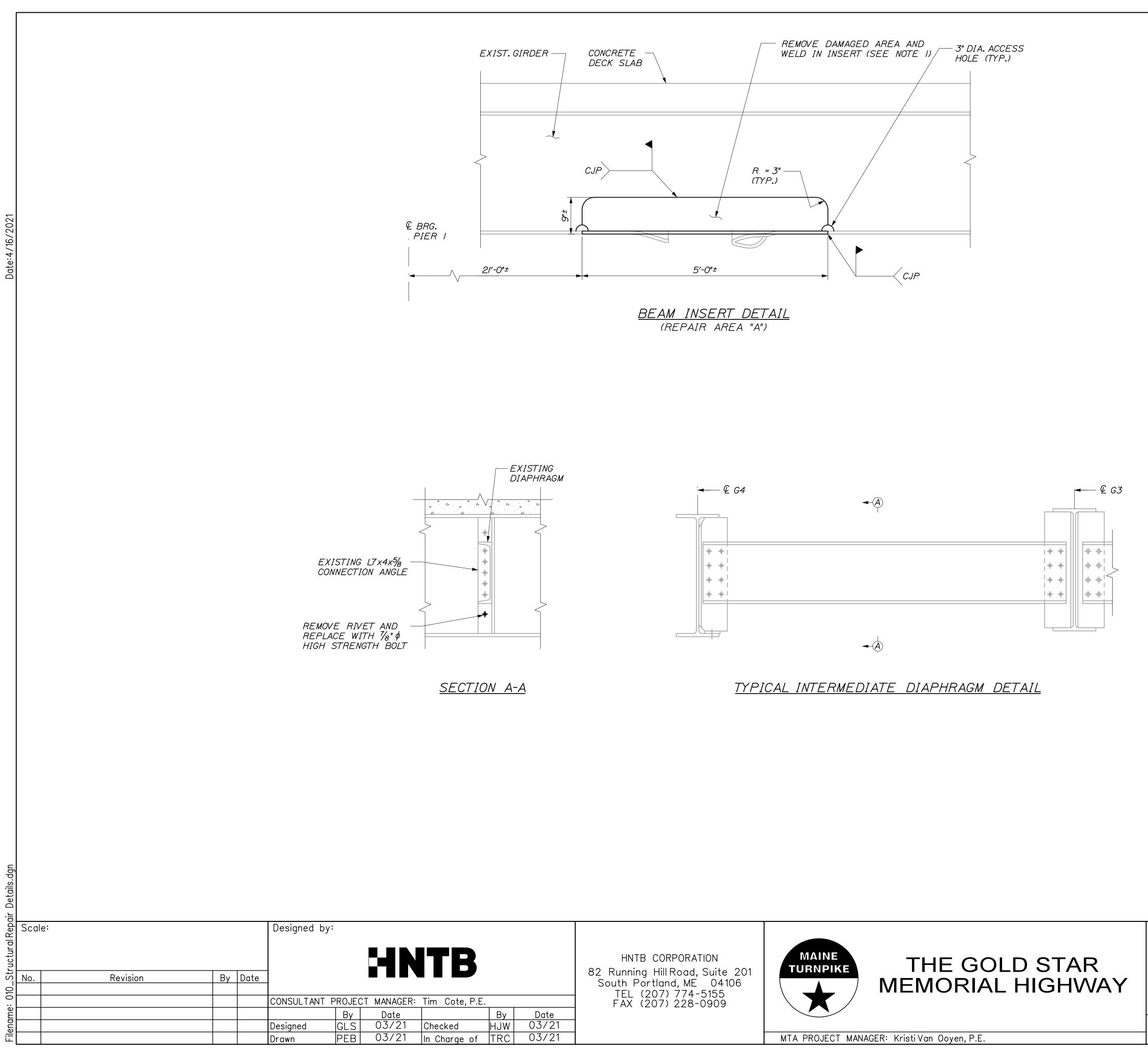
GIRDER REPAIRS GROVE STREET UNDERPASS MAINTENANCE OF TRAFFIC SIGN SUMMMARY - MAINE TURNPIKE SHEET NUMBER: MT-05

CONTRACT:2021.03



CONTRACT:2021.03





NOTES:

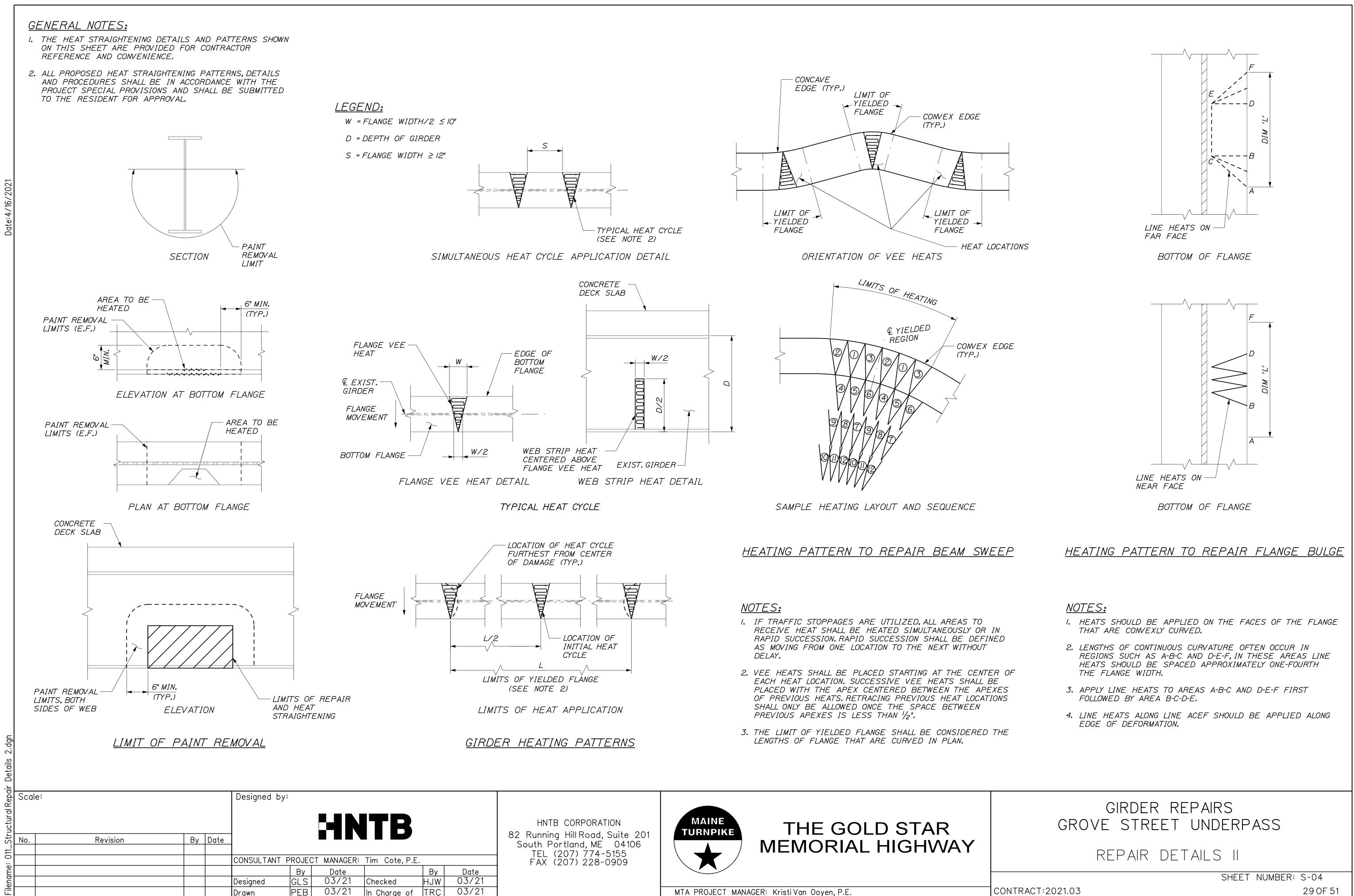
- I. AFTER HEAT STRAIGHTENING IS COMPLETE, THE RESIDENT SHALL DETERMINE LIMITS OF GIRDER FLANGE AND WEB REMOVAL. FOLLOWING REMOVAL OF FLANGE AND WEB, THE CONTRACTOR SHALL FIELD MEASURE AND PROVIDE THE EXACT INSERT DIMENSION FOR APPROVAL PRIOR TO FABRICATION. THE CONTRACTOR SHALL FURNISH T-SECTIONS WITH SIMILAR WEB THICKNESS AND FLANGE DIMENSIONS AS EXISTING BEAMS.THE INSERT MAY BE ROLLED SHAPES OR WELDED PLATE STEEL OF APPROPRIATE SIZES.
- 2. GRIND WELDS FLUSH AFTER WELDING. ALL GRINDING SHALL BE PERFORMED IN THE LONGITUDINAL DIRECTION OF THE BEAM.

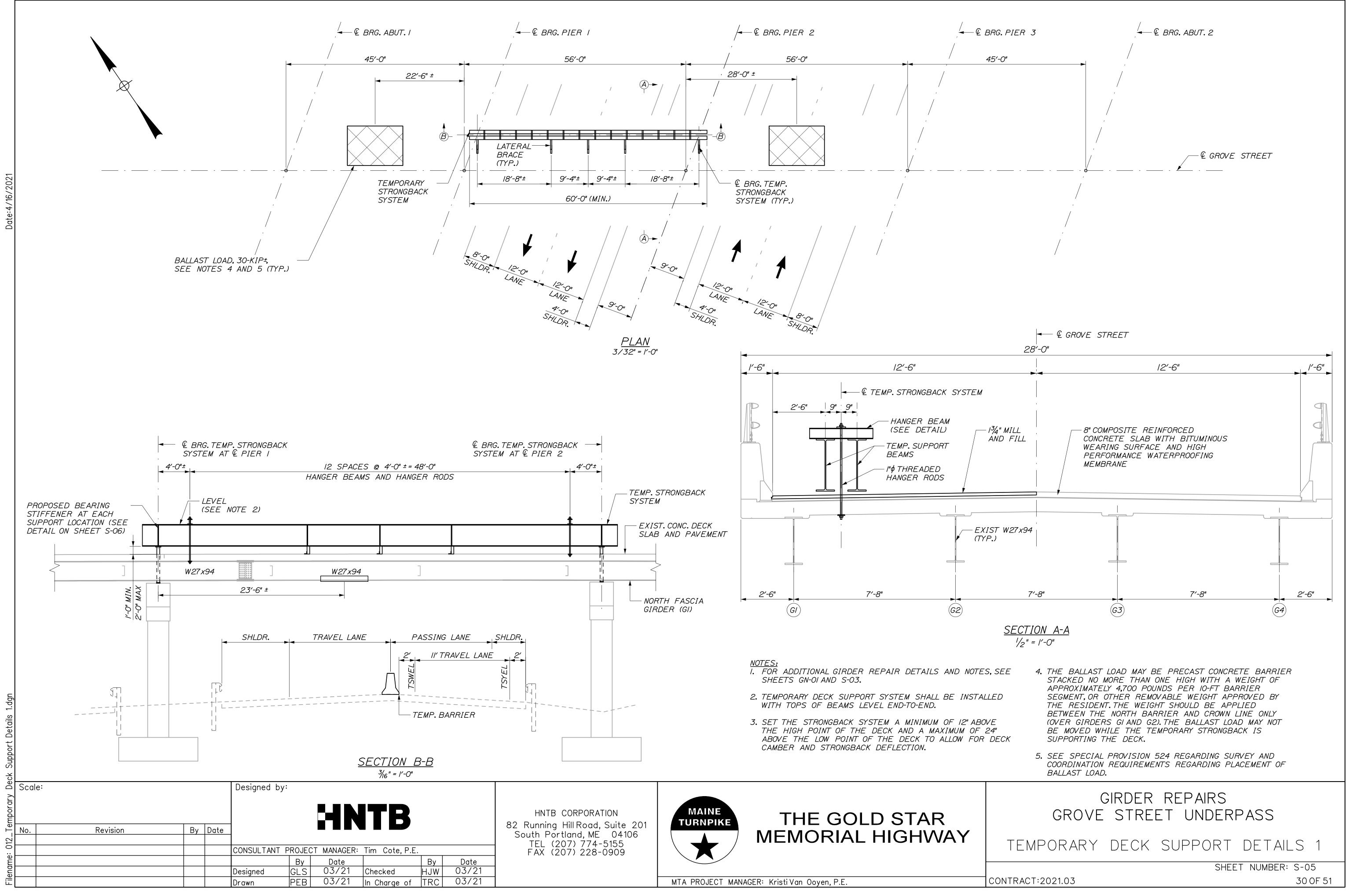
GIRDER REPAIRS GROVE STREET UNDERPASS

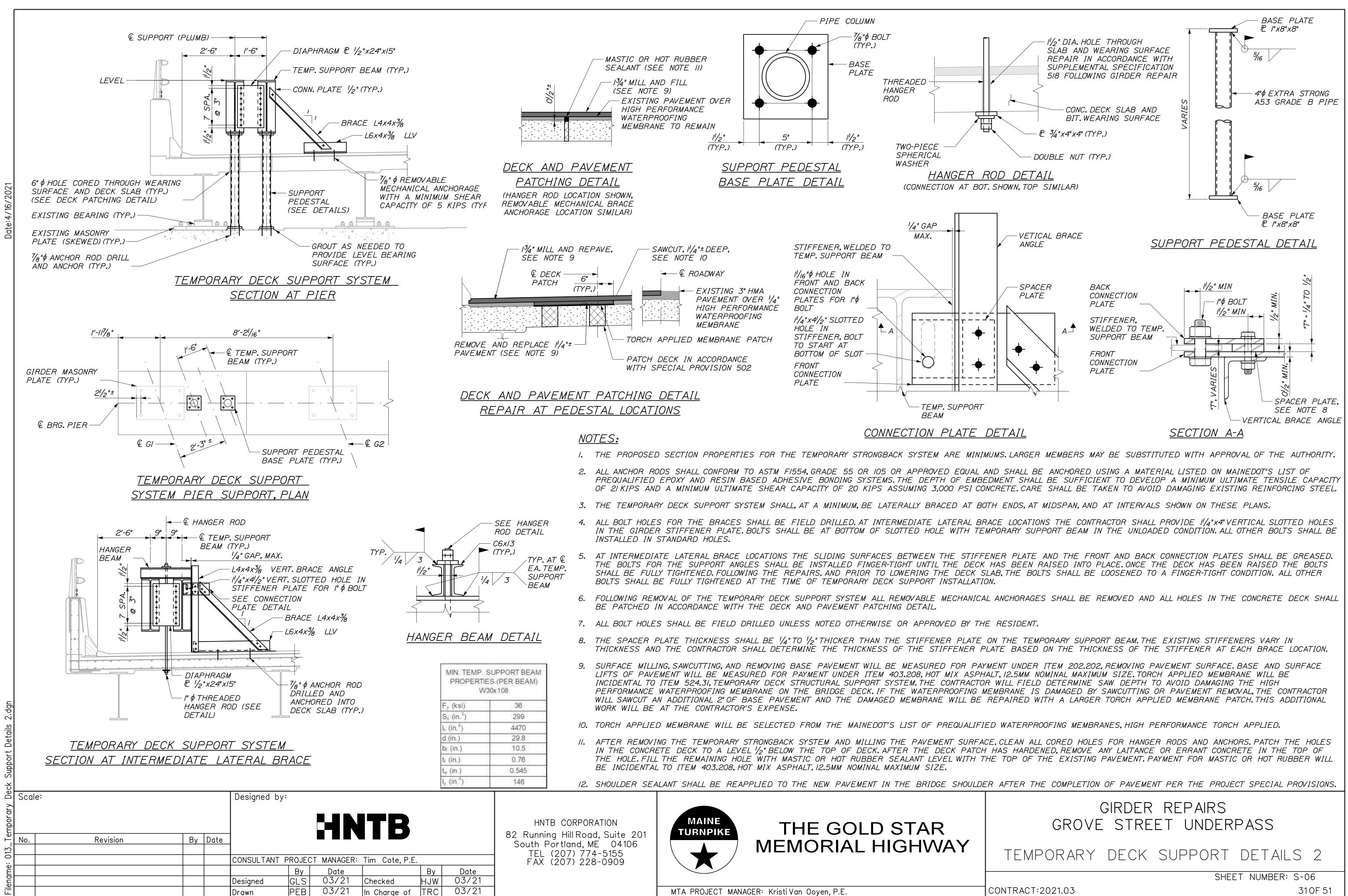
REPAIR DETAILS I

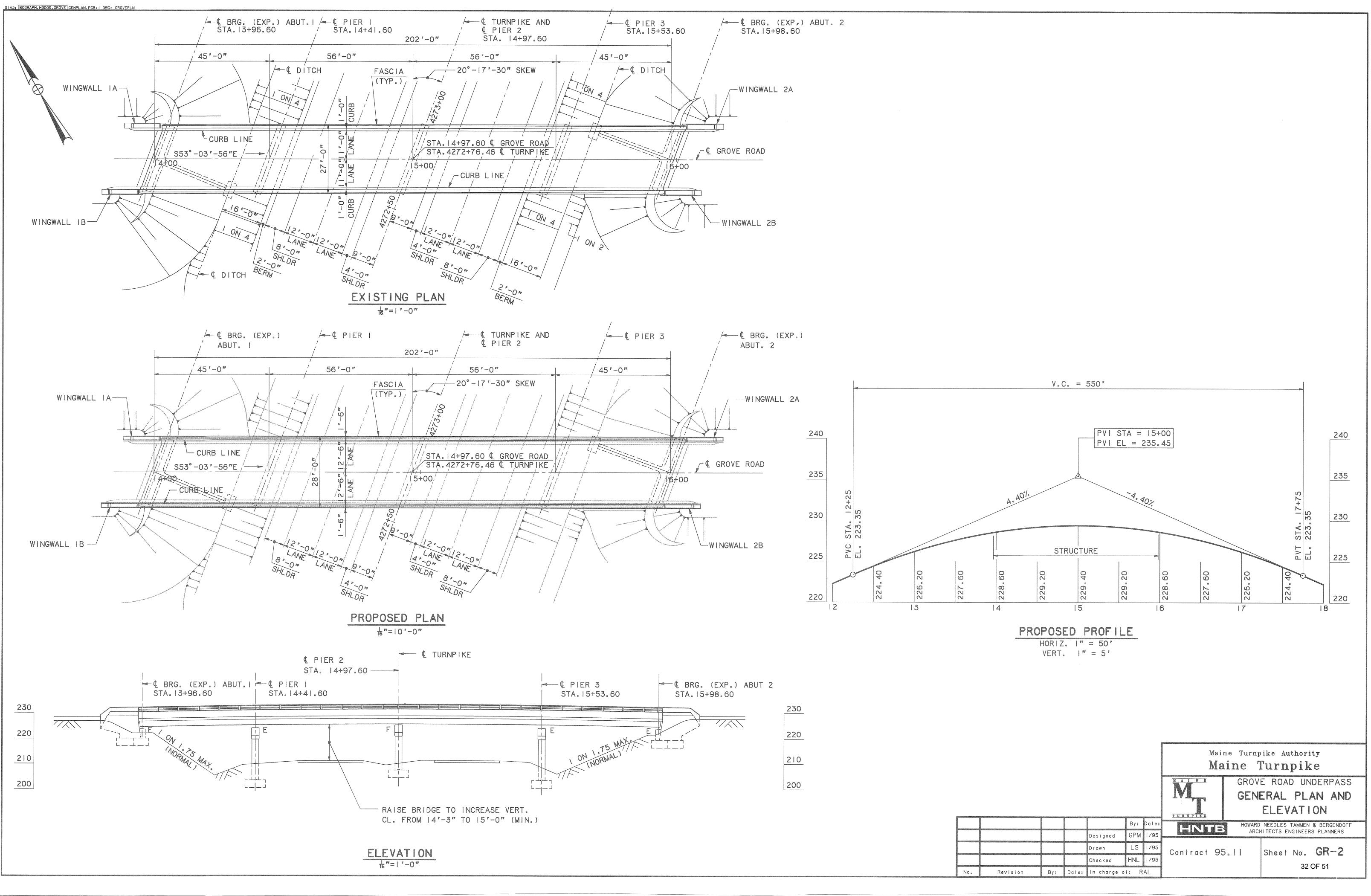
CONTRACT:2021.03

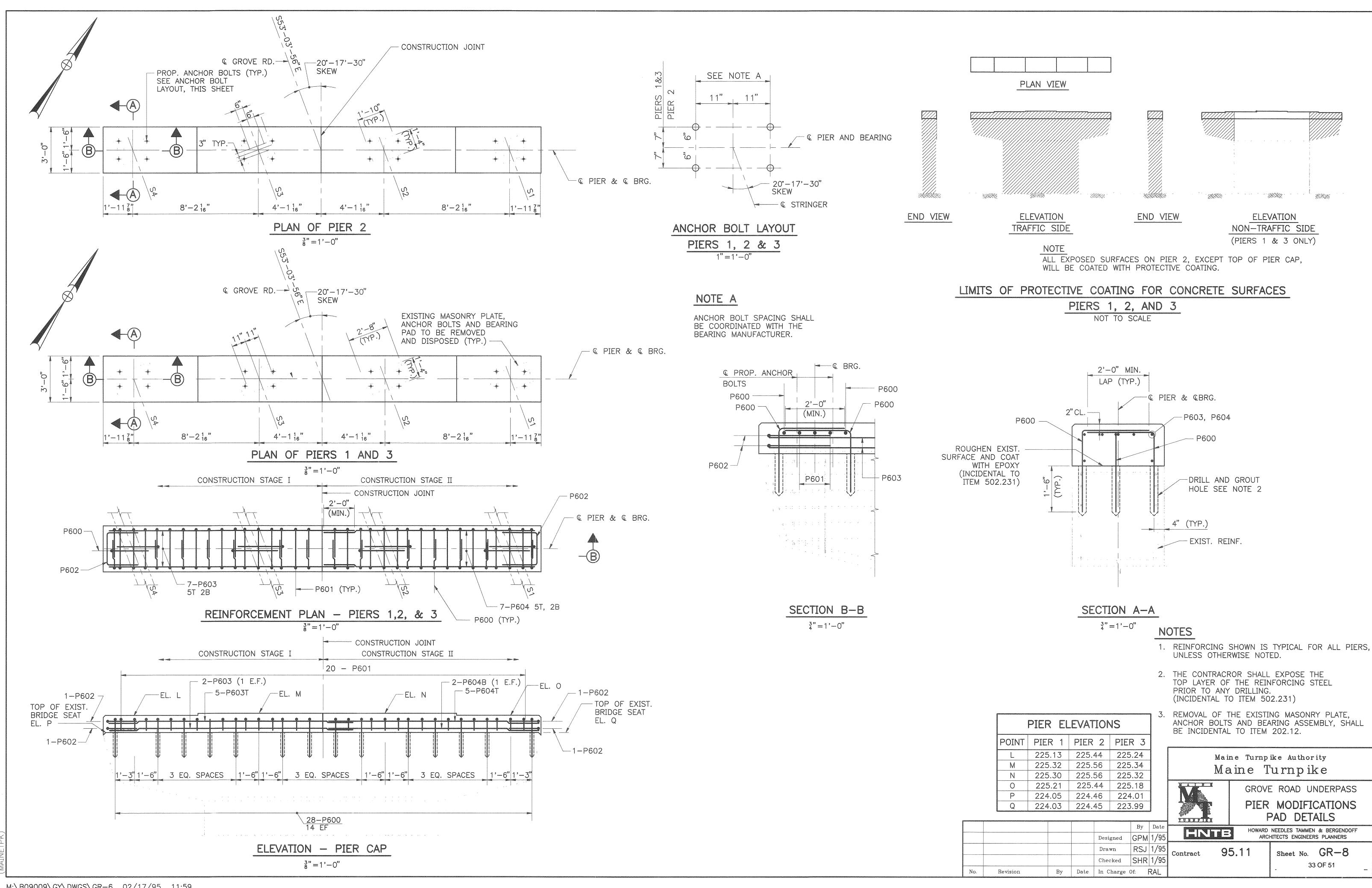
SHEET NUMBER: S-03



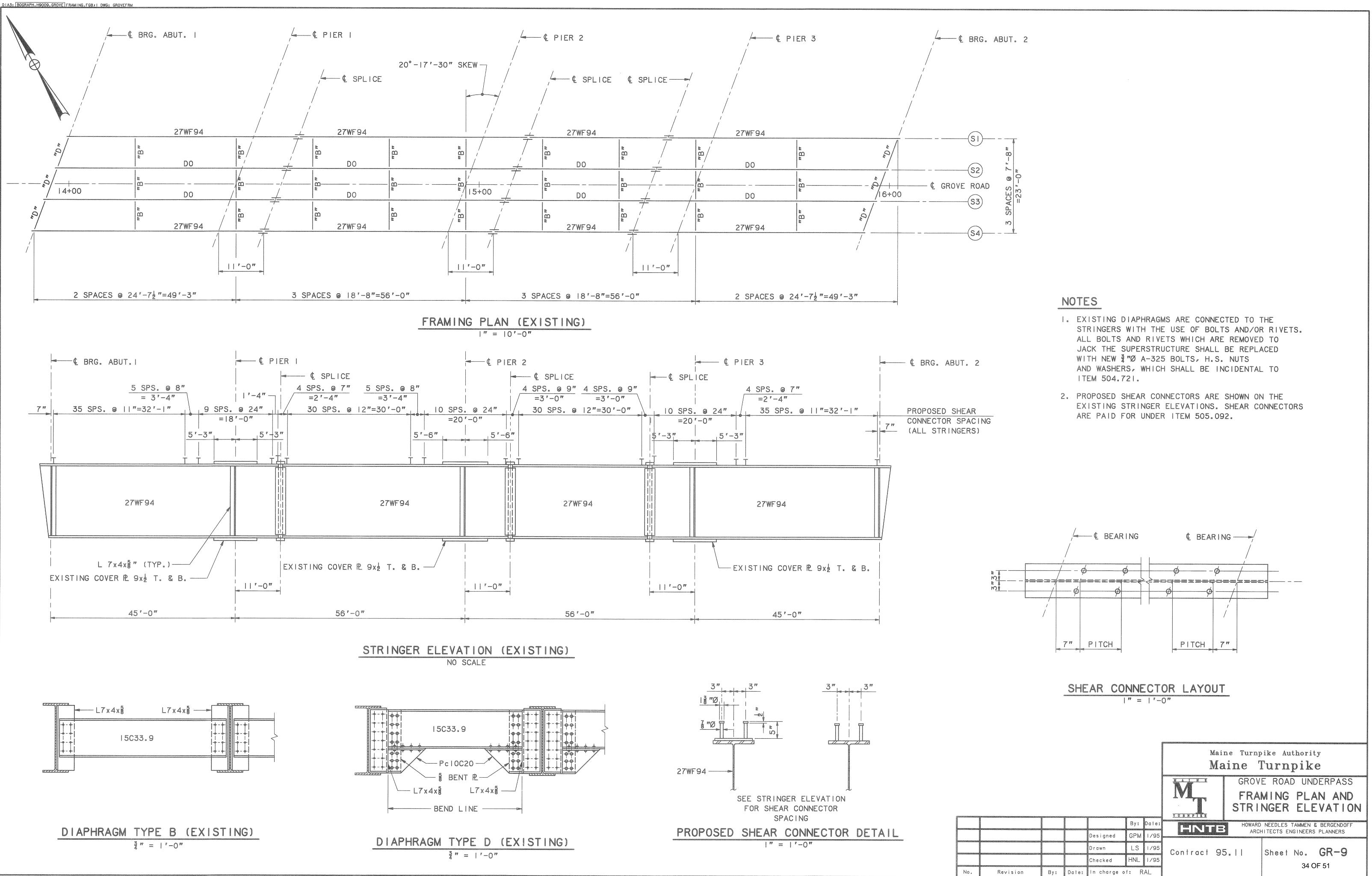


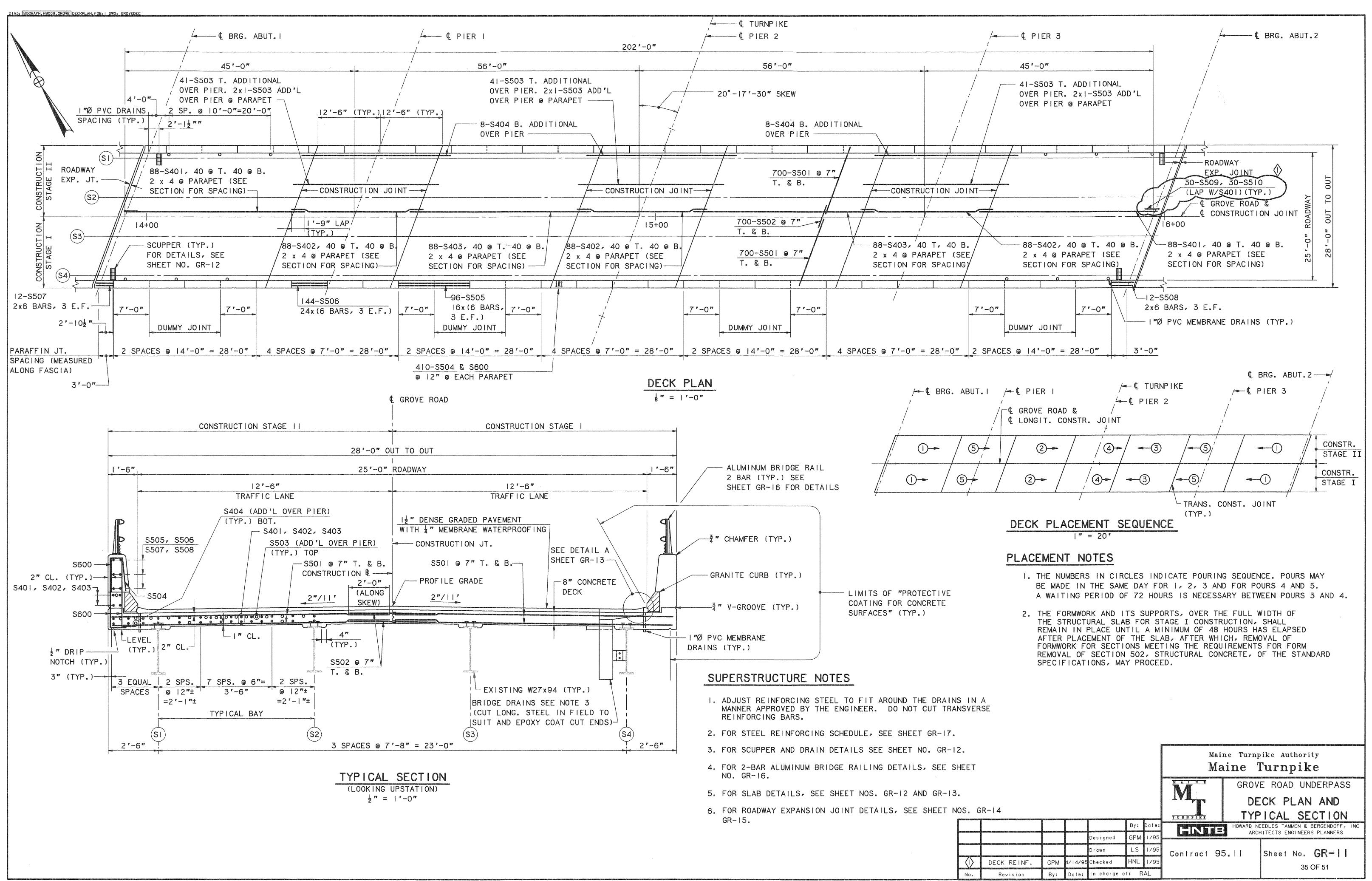


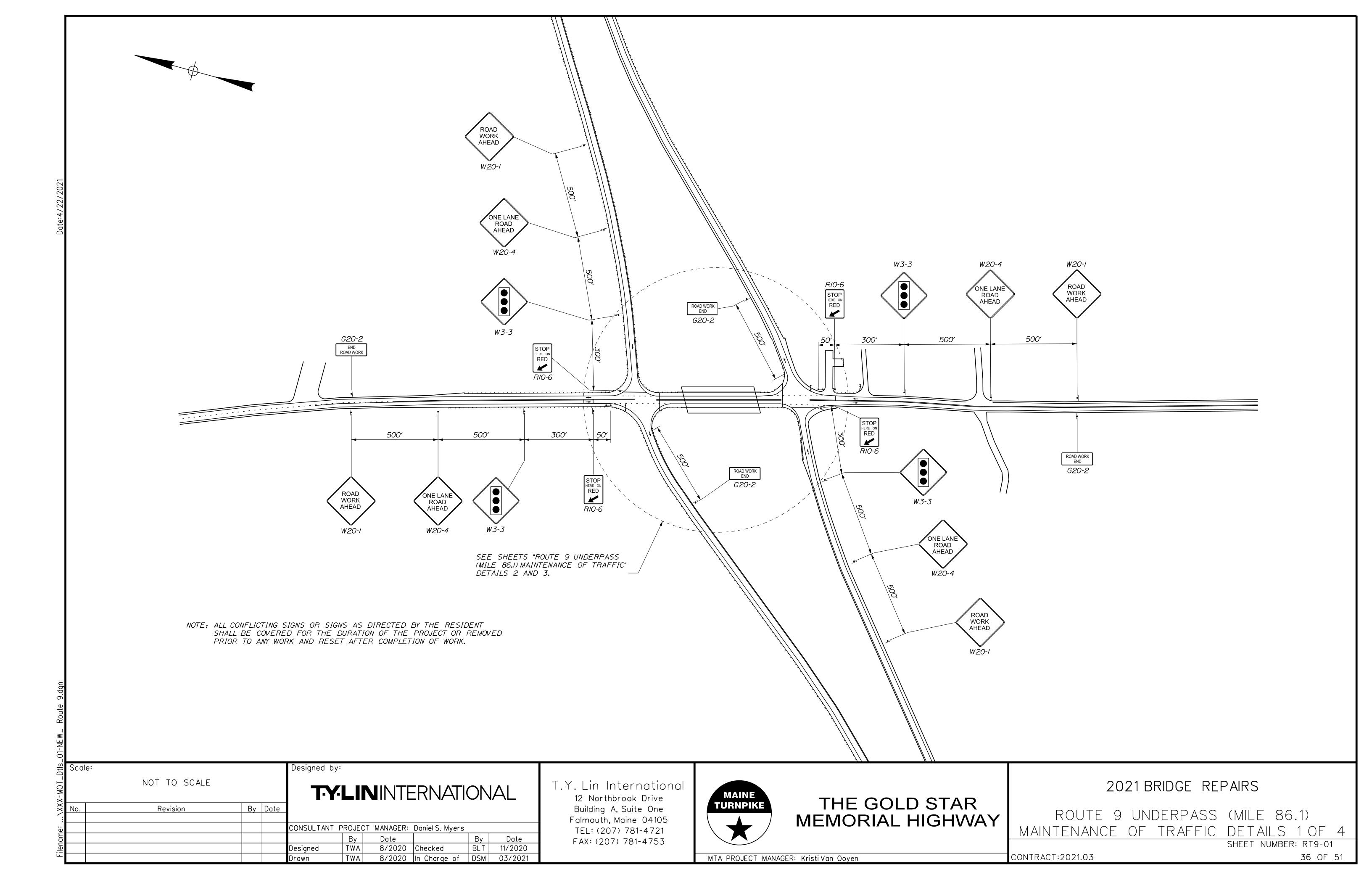


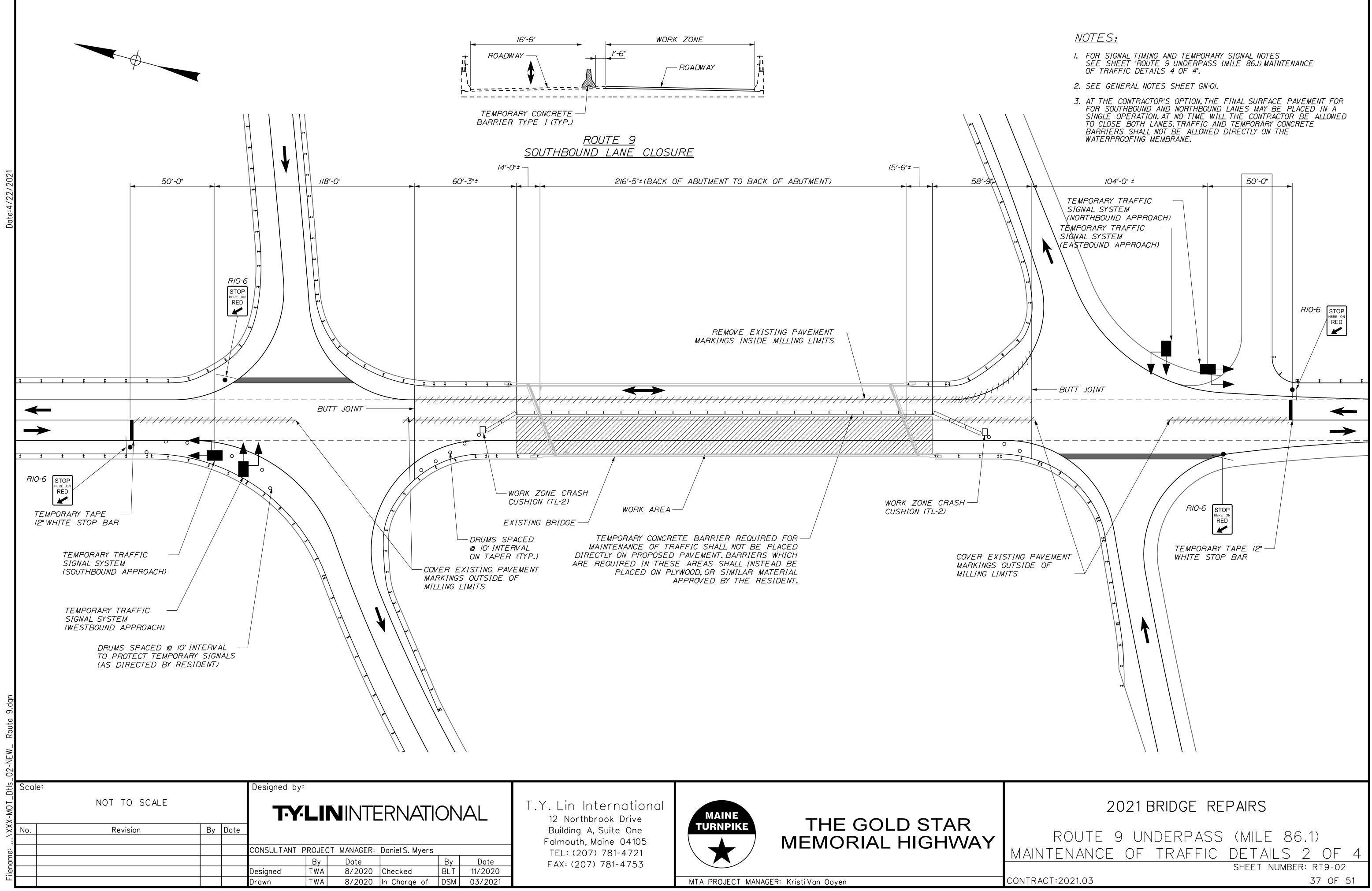


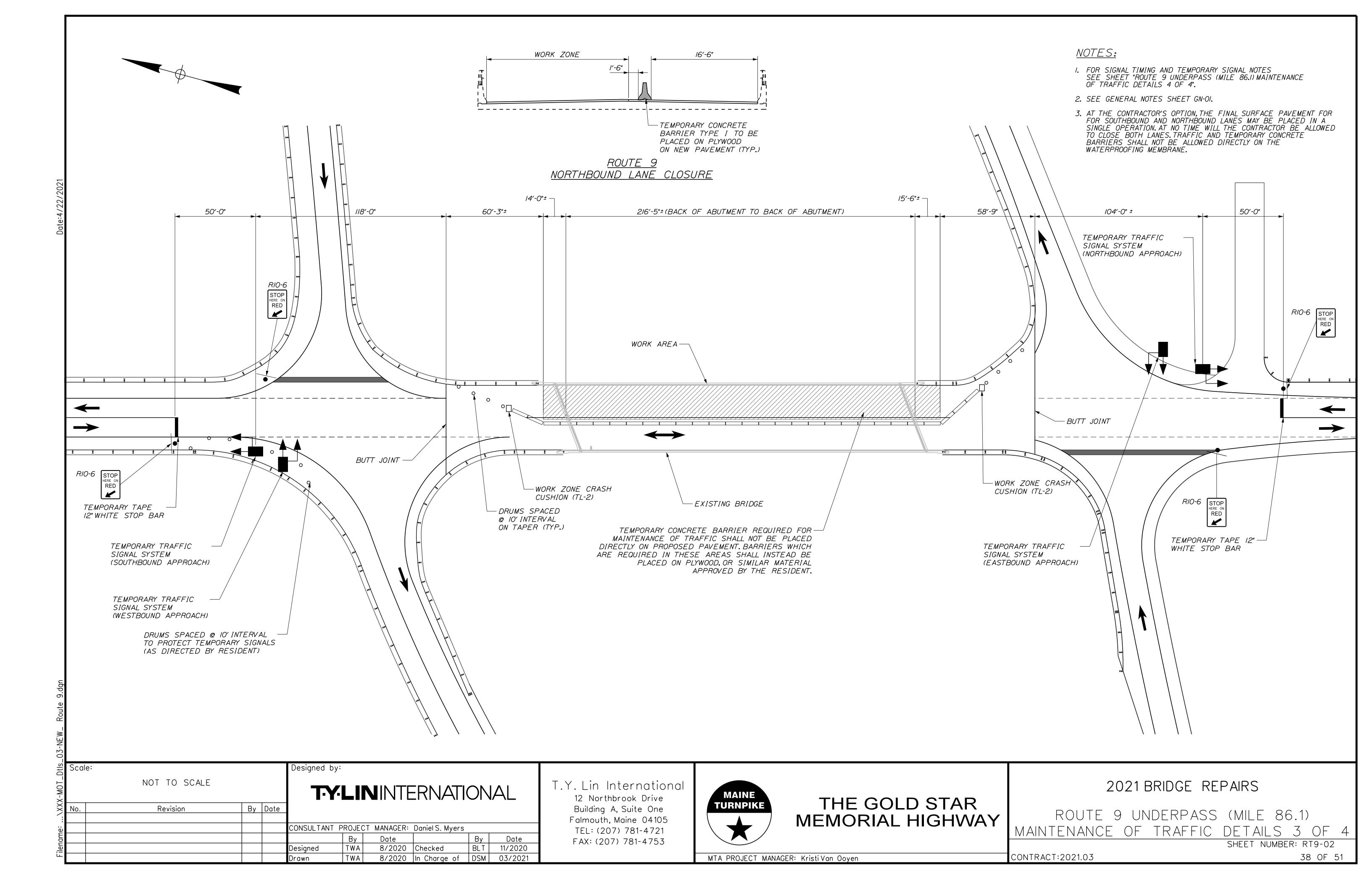
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<u>SIGNAL TIMING</u>

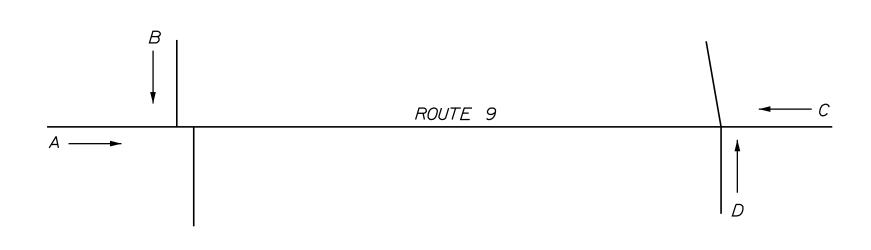
INTERSECTION	ROUTE 9 EB AT SB RAMPS	SB OFF-RAMP	ROUTE 9 WB AT NB RAMPS	NB OFF-RAMP
MOVEMENT	EB TH/RT	SB LT/RT	WB TH/RT	NB LT/RT
PHASE	А	В	С	D
MIN GREEN	5	5	5	5
YELLOW	3	3	3	3
ALL RED	24	28	24	28
MAX SPLIT	30	15	30	15
VEH EXTENSION	3	3	3	3

TEMPORARY SIGNAL NOTES:

- I. LOCATIONS OF TEMPORARY TRAFFIC SIGNAL SYSTEMS ARE APPROXIMATE.FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
- 2. TRAFFIC SIGNAL WORK SHALL BE COMPLETED IN A MANNER AND ORDER THAT WILL CAUSE THE MINIMUM DISRUPTION TO TRAFFIC.
- 3. ALL SIGNAL SECTIONS SHALL HAVE LED LENSES 12 INCHES IN DIAMETER WITH 5 INCH BACK PLATES.
- 4. TEMPORARY TRAFFIC SIGNAL SYSTEMS SHALL BE TRAILER MOUNTED SIGNAL HEADS WITH ALL NECESSARY POWER SUPPLY AND SIGNAL TIMING CONTROL AND SHALL INCLUDE VEHICLE DETECTION EQUIPMENT.WOODEN POLES AND A SPAN WIRE WILL ALTERNATIVELY BE ALLOWED AS A TEMPORARY SIGNAL AT THE APPROVAL OF THE AUTHORITY.
- 5. IF A VEHICLE IS DETECTED ON PHASE B IT SHALL FOLLOW PHASE A AND PHASE A ALL RED TIME SHALL BE 8 SECONDS.
- 6. IF A VEHICLE IS DETECTED ON PHASE D IT SHALL FOLLOW PHASE C AND PHASE C ALL RED TIME SHALL BE 8 SECONDS.
- 7. ALL SIGNALS SHALL BE TRAFFIC ACTUATED.
- 8. THE ALL RED TIMINGS PROVIDED ARE BASED ON AN AVERAGE SPEED OF 20 MPH.
- 9. IF NEEDED, SIGNAL TIMING'S SHALL BE ADJUSTED BY THE CONTRACTOR AS DIRECTED BY THE RESIDENT AT NO ADDITIONAL COST.
- IO. ALL WORK SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION AND ALL REVISIONS.
- II. FOR SIGN DETAILS SEE MAINTENANCE OF TRAFFIC SIGN SUMMARY SHEETS.

...\XXX-MOT_Dtls_04-NEW_ Route 9.dgn

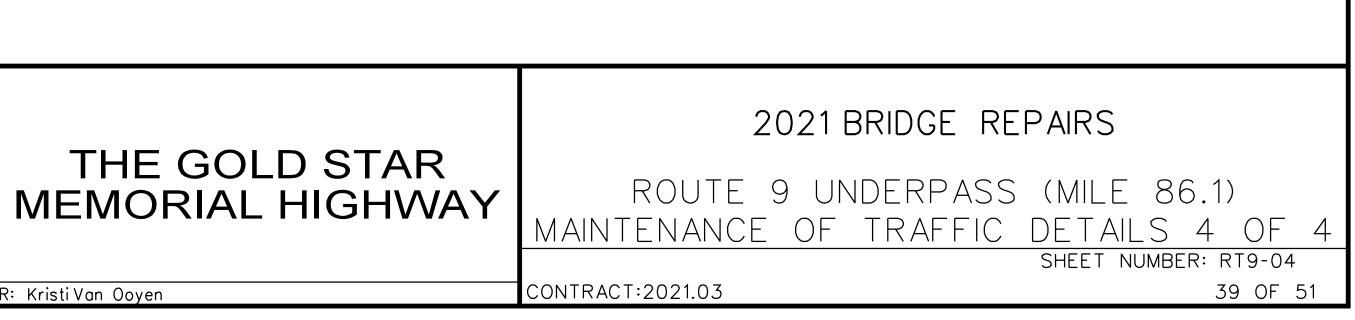
Dtls_04		e:				Designed b	y:				
XXX-MOT_Dtls						T•			ERNATI		ĮΔ
\XX	No.		Revision	Ву	Date						
е:						CONSULTANT	PROJEC	T MANAGER:	Daniel S. Myers		
ilename:							By	Date		By	
ilen						Designed	TWA	8/2020	Checked	x	1
L						Drawn	TWA	8/2020	In Charge of	DSM	0



Dote 1/2020 03/2021

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





MTA PROJECT MANAGER: KristiVan Ooyen

IDENTIFI-		EOF	~ ~ · · ·		MENSIONS	(INCHES)	NUMBER OF	COL		BORDER	AREA IN	NOTEO
CATION NUMBER		'GN HEIGHT	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW	OF SIGNS REQUIRED	BACK- GROUND	LEGEND BORDER	RADIUS	SQUARE FEET	NOTES
			EXPECT	6"	4"							
CS-I	48"	48"	STOPPED TRAFFIC	6" 6"	4"		4	ORANGE	BLACK		16.00 (64)	
G20-2	36"	24"	END ROAD WORK	CONFOF	DIMENSIONS RM TO "STA NY SIGNS" -	NDARD	8	ORANGE	BLACK		6.00 (48)	
G20-5aP	48"	24"	WORK ZONE				4	ORANGE	BLACK		8.00 (16)	
R2-I	48"	60"	SPEED LIMIT 60				4	WHITE	BLACK		20.00 (40)	
R2-6aP	36"	24"	FINES DOUBLE				4	WHITE	BLACK		6.00 (12)	
R2-12	36"	54"	END WORK ZONE SPEED LIMIT				4	WHITE	BLACK		13.50 (27)	
RIO-6	24"	36"	STOP HERE ON RED				4	WHITE	BLACK		6.00 (24)	
W3-3	36"	36"					4	ORANGE	BLACK		9.00 (36)	
W3-4	48"	<i>48</i> "	BE PREPARED TO STOP				4	ORANGE	BLACK		16.00 (64)	
W3-5	48"	<i>48</i> "	SPEED LIMIT 60				4	ORANGE	BLACK		16.00 (64)	
W4-2 (LEFT) (RIGHT)	48"	48"					4 4	ORANGE	BLACK		16.00 (64) (64)	

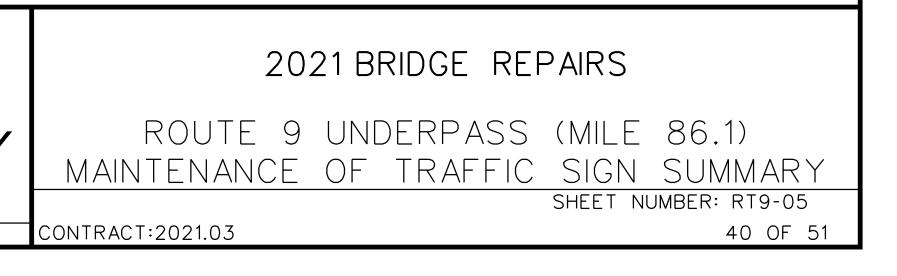
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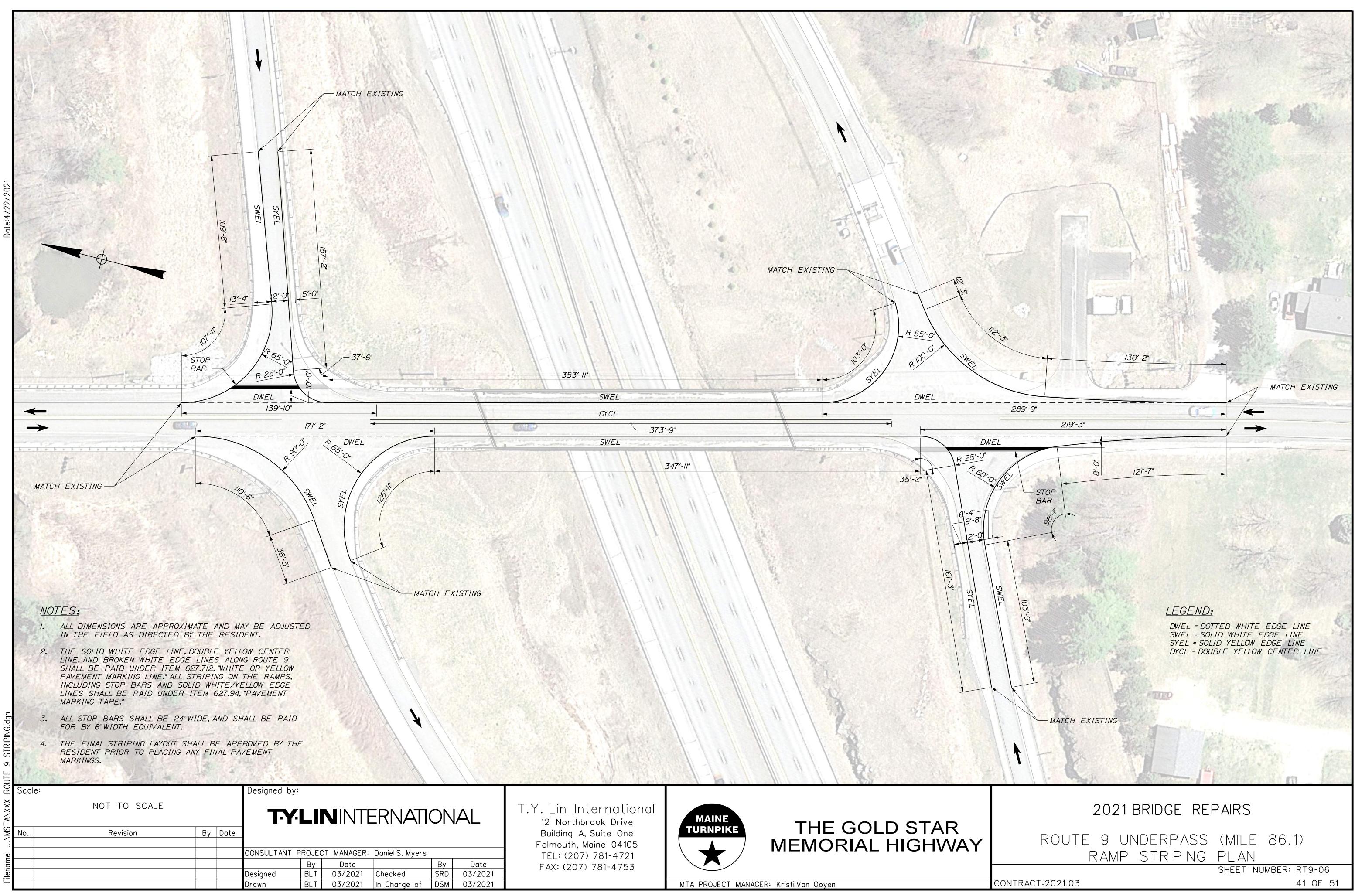
xXX_MOT_Sign_Sum_01_Route 9.dgn

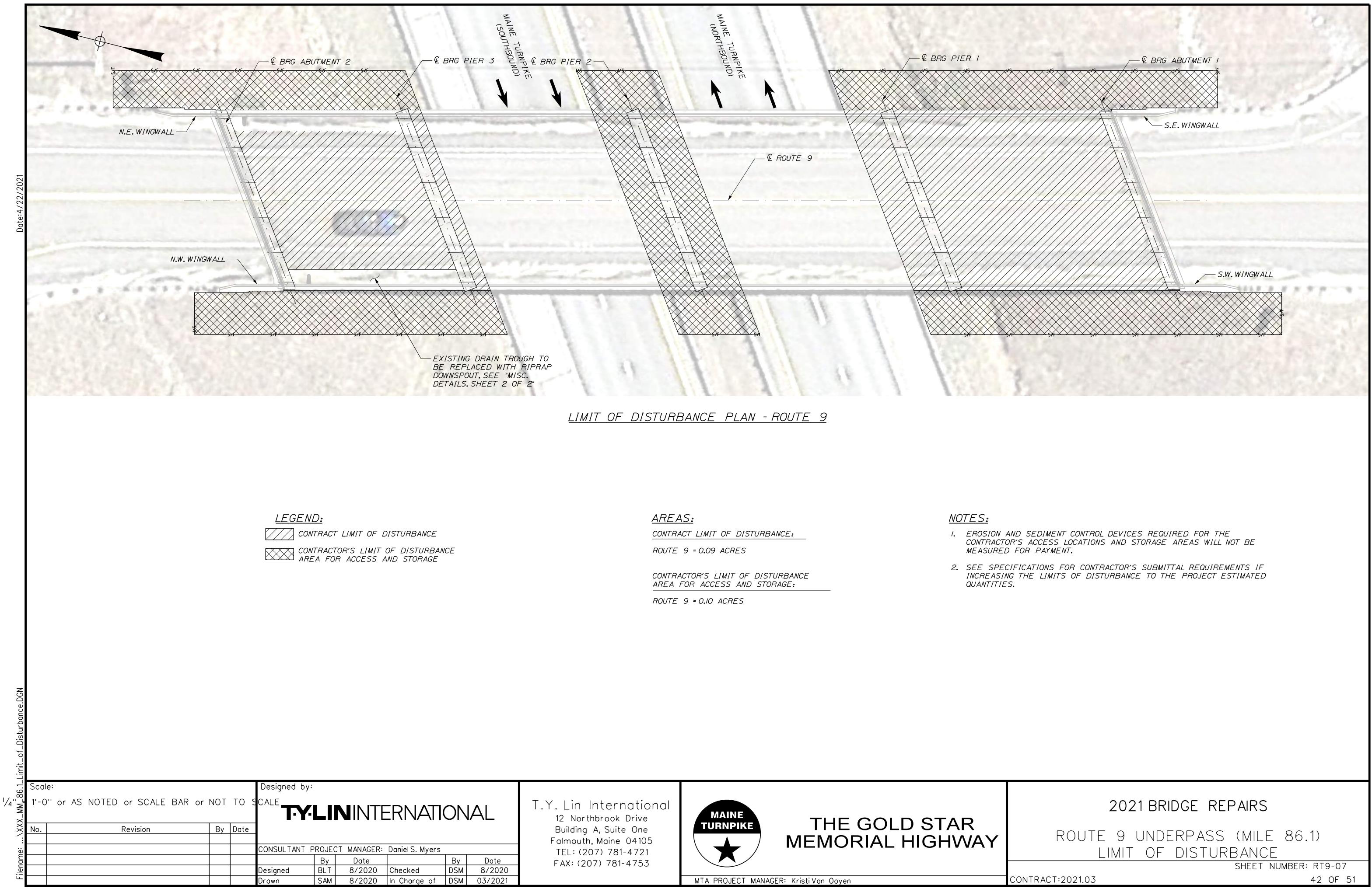
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X No.	Revision	By Date						
			-					
			CONSULTAN	PROJEC	T MANAGER:	Daniel S. Myers		
			CONSULTAN1	PROJEC	T MANAGER: Date	: Daniel S. Myers	By	
			CONSULTAN1			Daniel S. Myers		C 11/

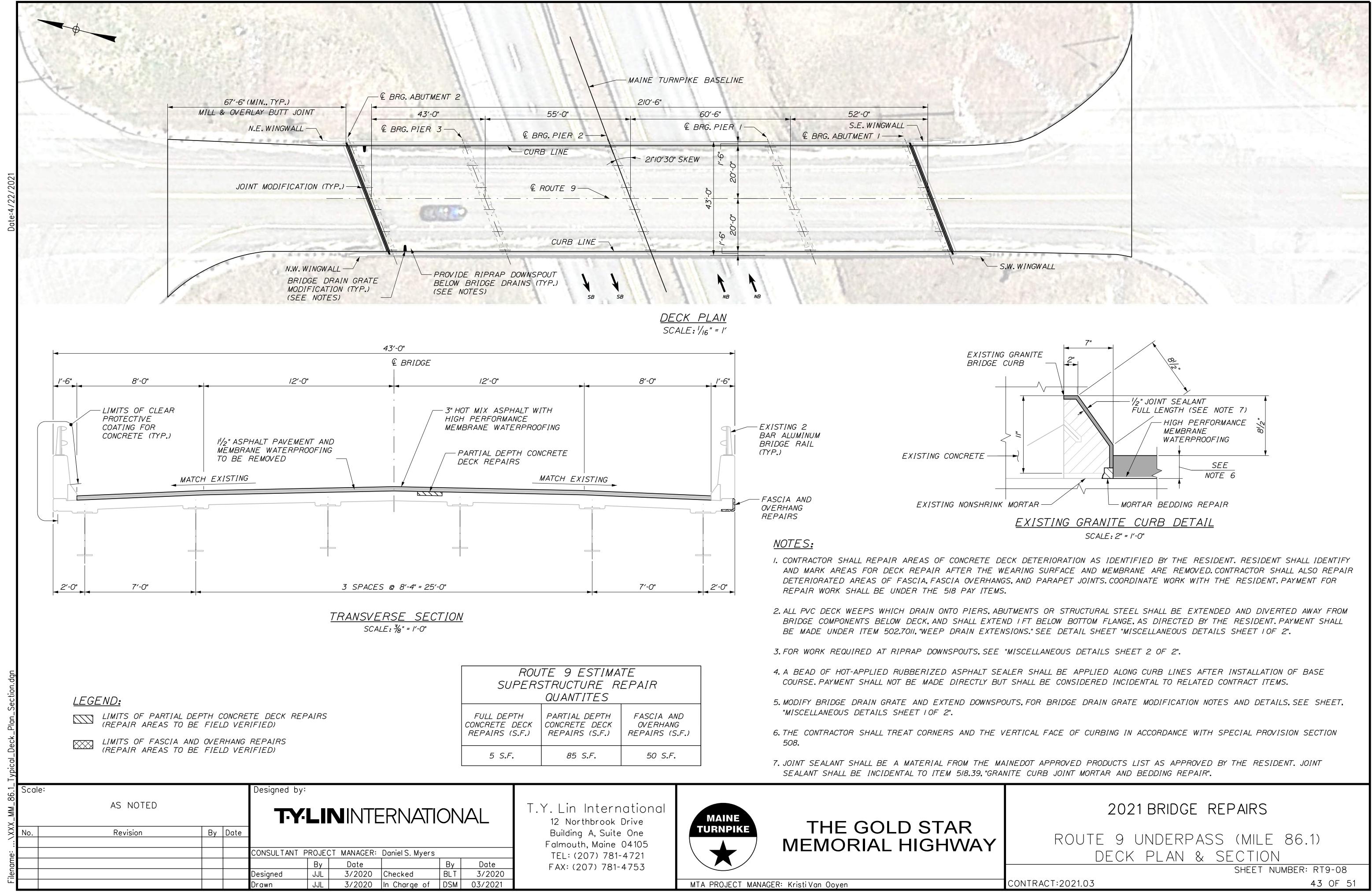
				TEXT DI	MENSIO	NS (1)	NCHESI	NUMBER		LOR			
IDENTIFI- CATION NUMBER	S	E OF IGN HEIGHT	TEXT	LETTER HEIGHT	VERTIC	CAL	ARROW	OF SIGNS REQUIRED	BACK-	LEGEND BORDER	BORDER RADIUS	AREA IN SQUARE FEET	NOTES
W8-/	48"	48"	BUMP	CONFOF	DIMENSIO RM TO "S AY SIGNS	STANL	DARD	4	ORANGE	BLACK		16.00 (64)	
W8-24A	48"	48"	RUMBLE STRIPS AHEAD					4	ORANGE	BLACK		16.00 (64)	
W2O-I (AHEAD) (I MILE)	48"	48"	ROAD WORK AHEAD					4 4	ORANGE	BLACK		16.00 (64) (64)	
W20-4	36"	36"	ONE LANE ROAD 1 MILE					4	ORANGE	BLACK		9.00 (36)	
W2O-5 (LEFT) (RIGHT)	48"	48"	LEFT LANE CLOSED 1/2 MILE					4 4	ORANGE	BLACK		16.00 (64) (64)	
W2I-5	48"	48"	SHOULDER WORK	V	√		V	4	ORANGE	BLACK		16.00 (64)	

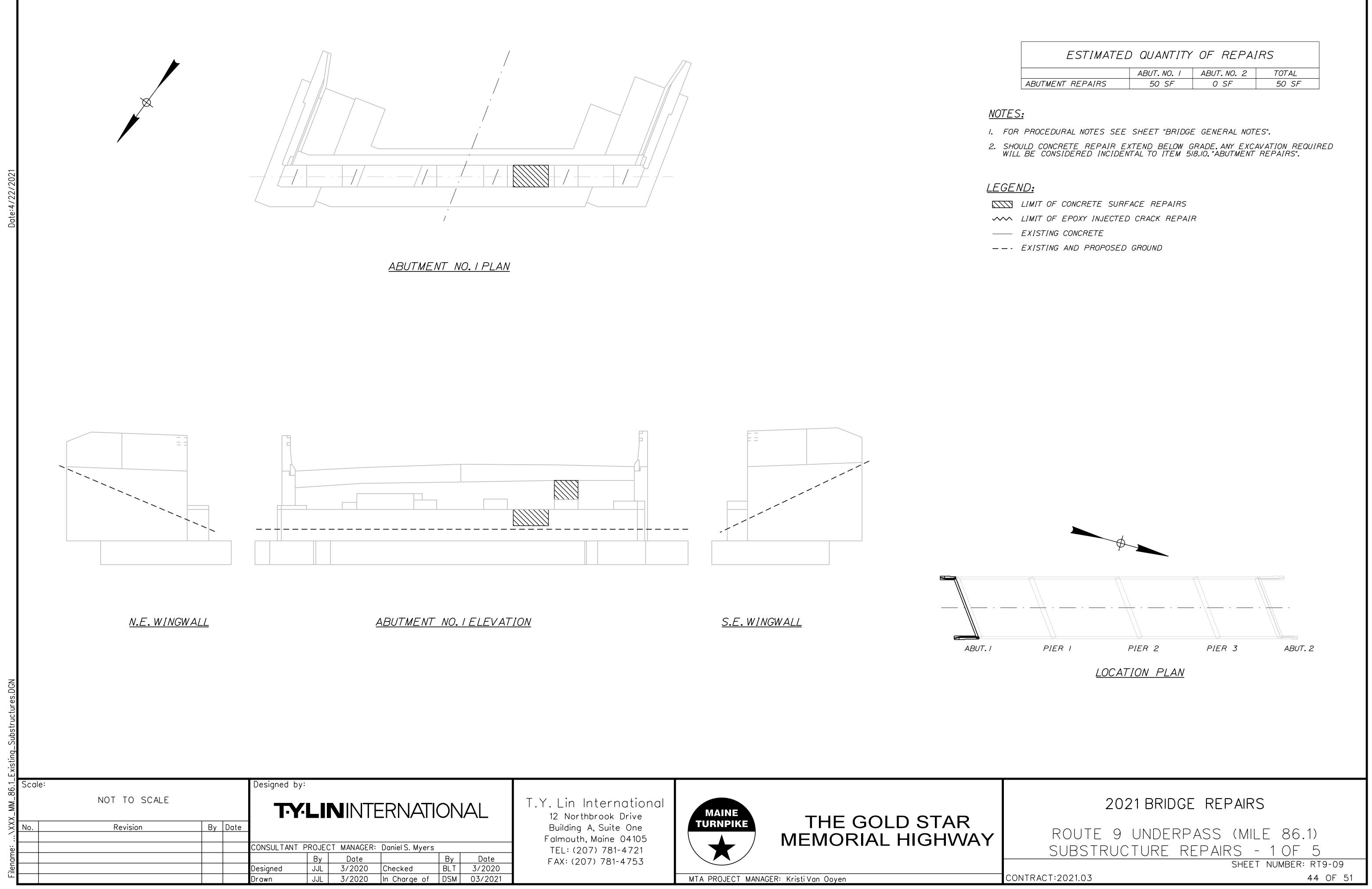
ALT.Y. Lin International
12 Northbrook Drive
Building A, Suite One
Falmouth, Maine 04105
TEL: (207) 781-4721
FAX: (207) 781-4753MAINE
TURNPIKE
TURNPIKE
TOTURN DIKE
TOTURN DIKE
THE GOLD STAR
MEMORIAL HIGHVAYDate
11/2020
03/2021MAINE
THE GOLD STAR
MAINE
THE GOLD STAR
MEMORIAL HIGHVAY

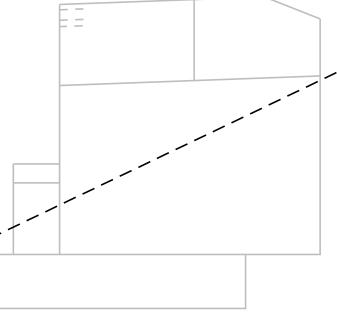




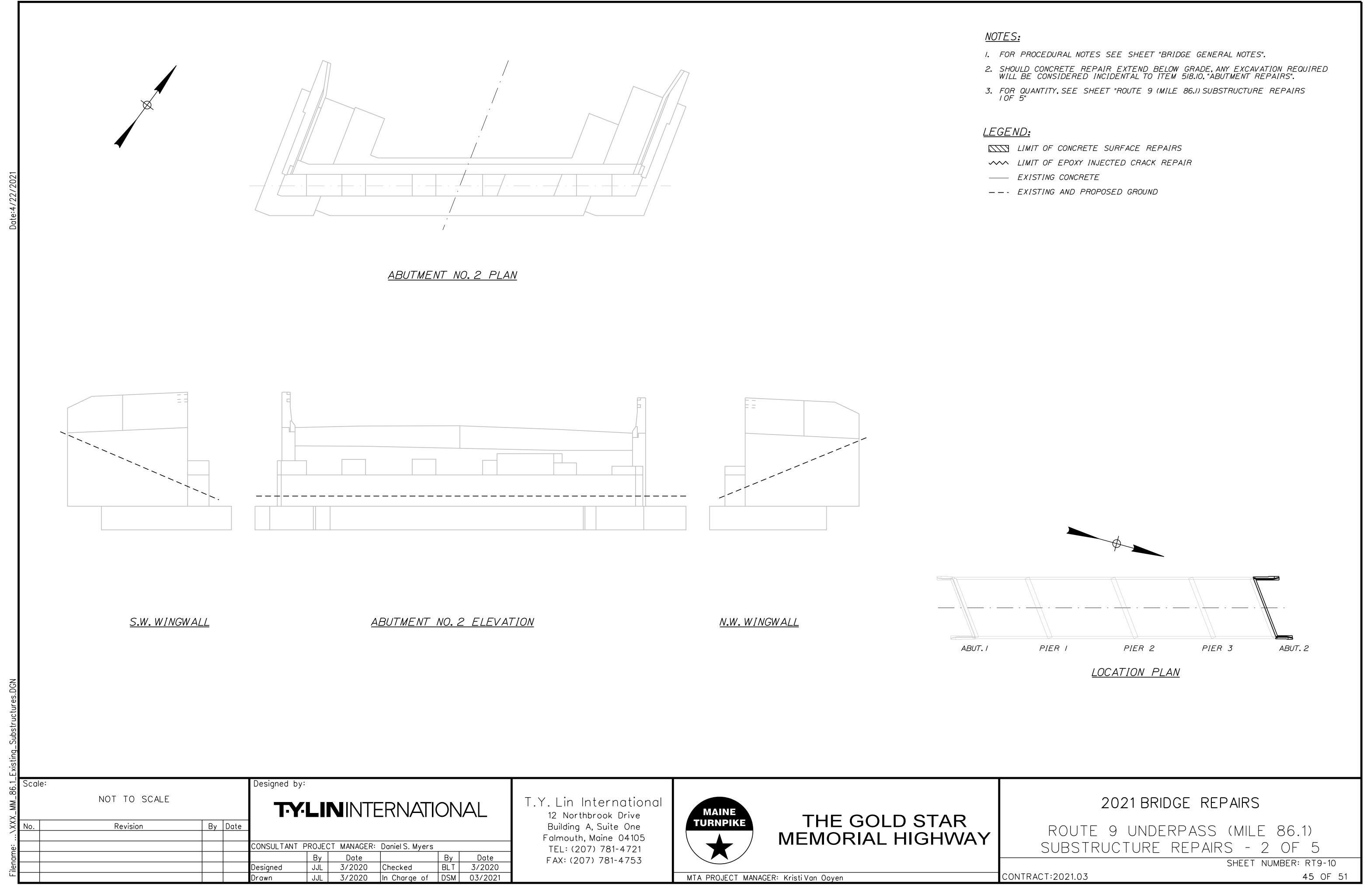


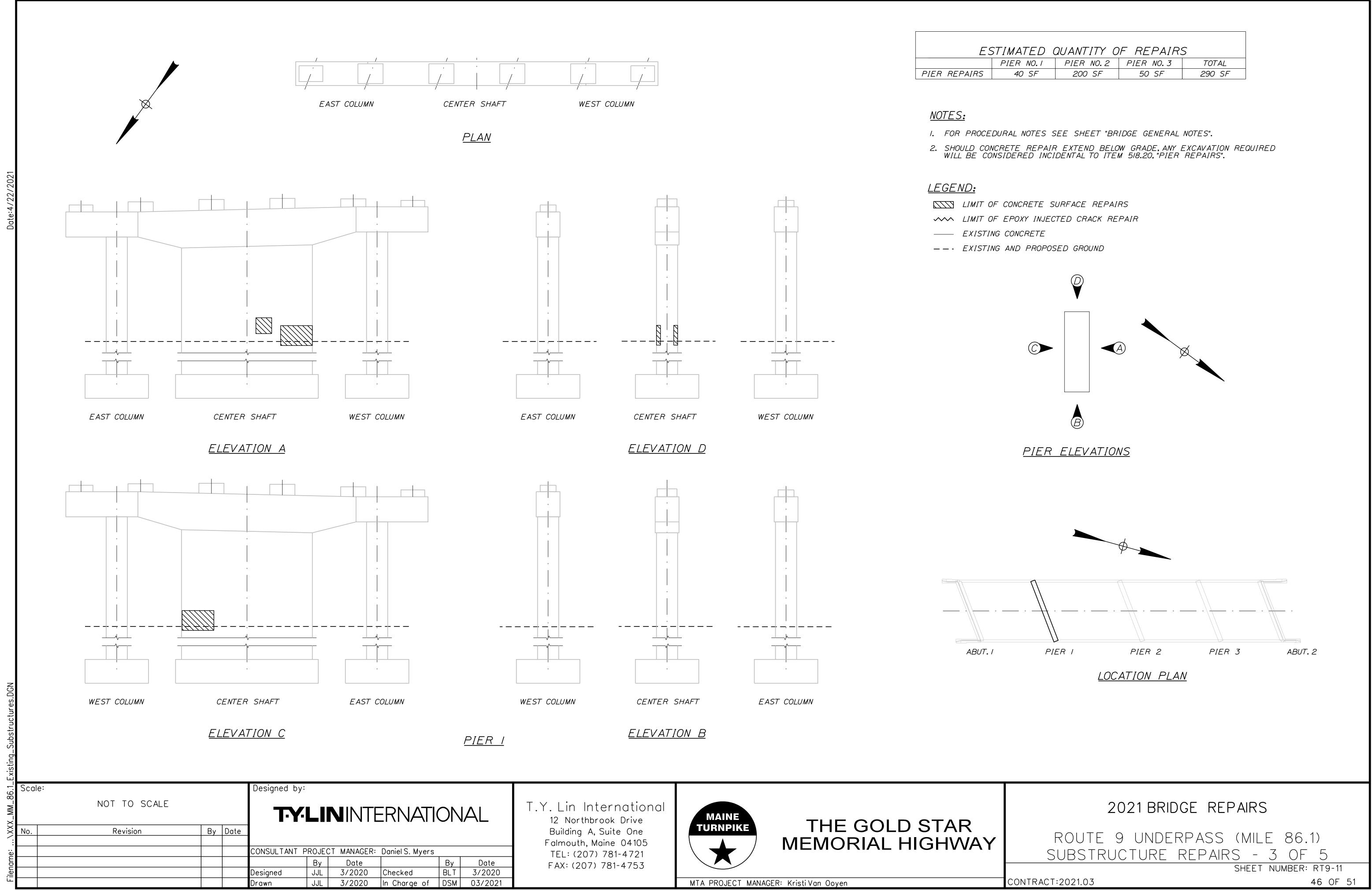






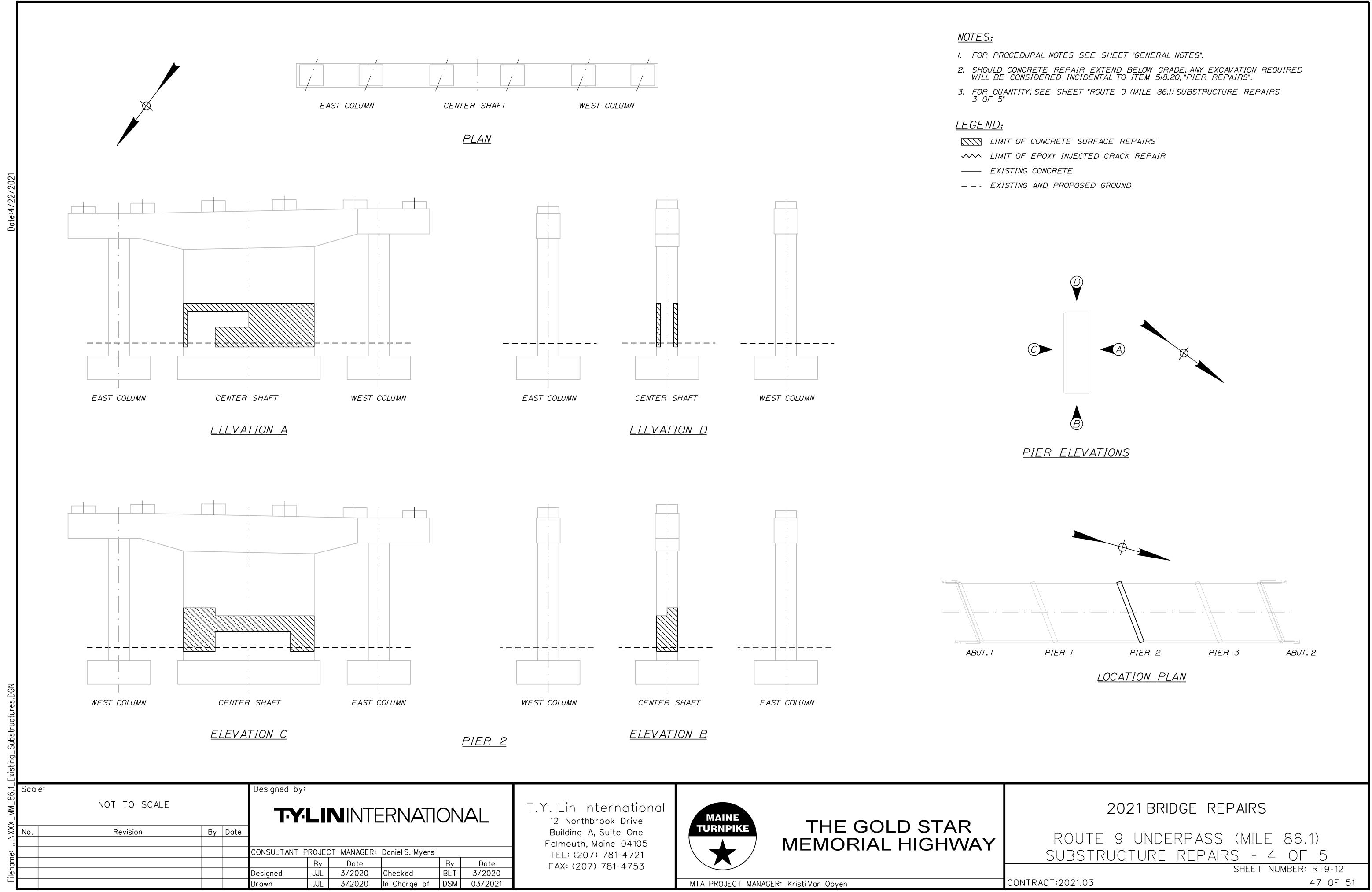
ESTIMATED QUANTITY OF REPAIRS								
	ABUT.NO. I	ABUT. NO. 2	TOTAL					
ABUTMENT REPAIRS	50 SF	0 SF	50 SF					

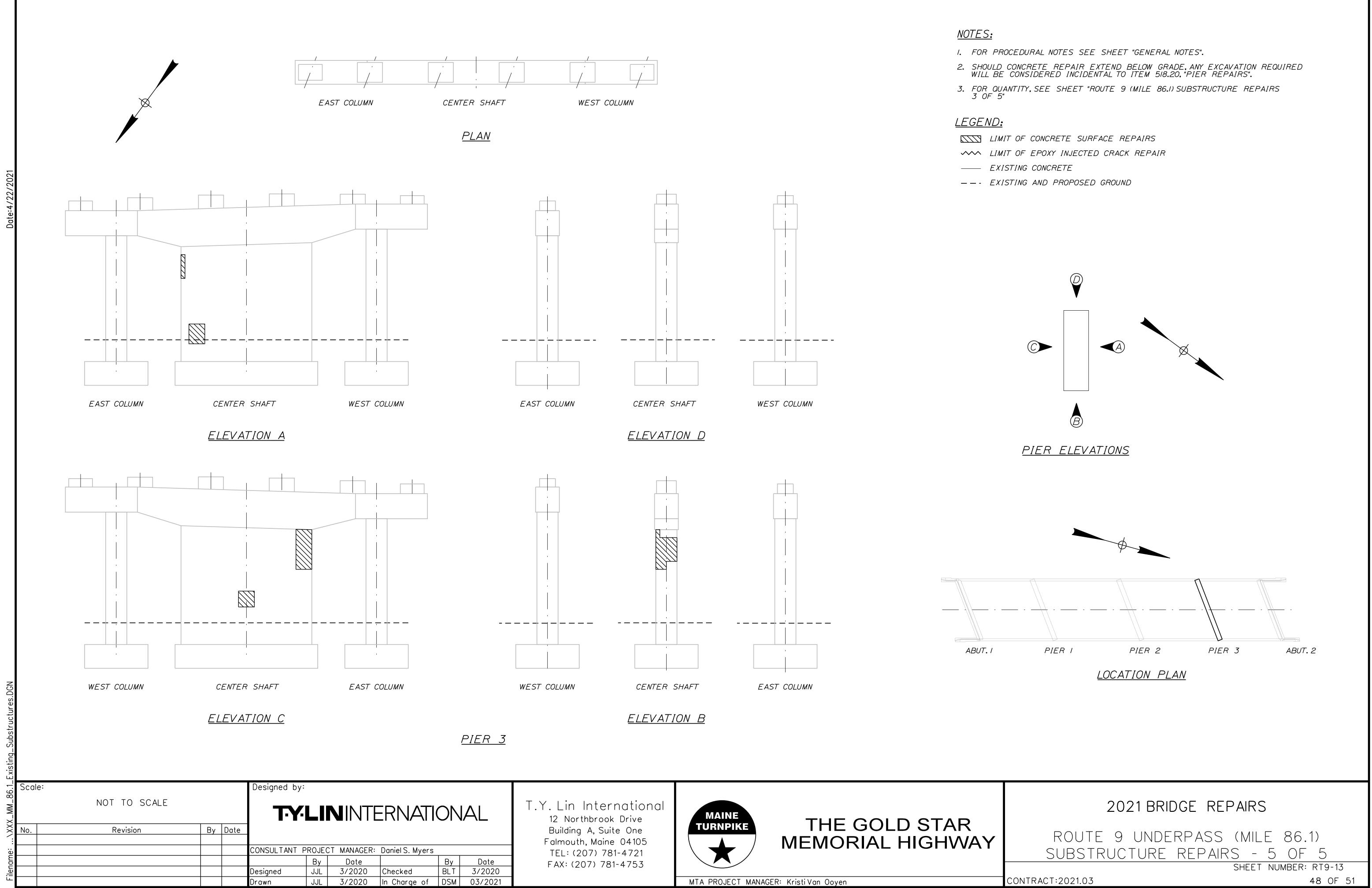


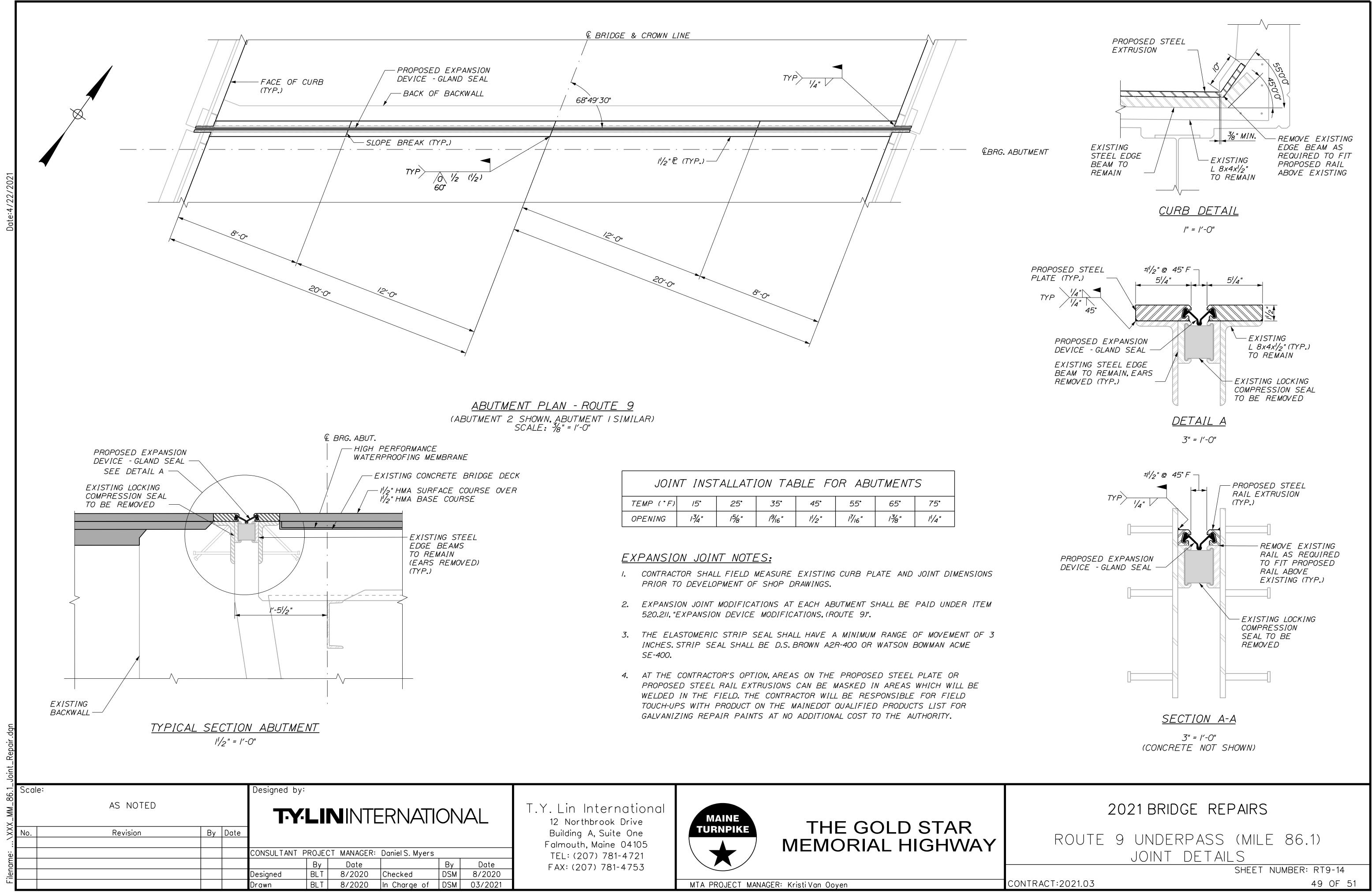




MATED QUANTITY OF REPAIRS									
PIER NO.I	PIER NO.2	PIER NO.3	TOTAL						
40 SF	200 SF	50 SF	290 SF						

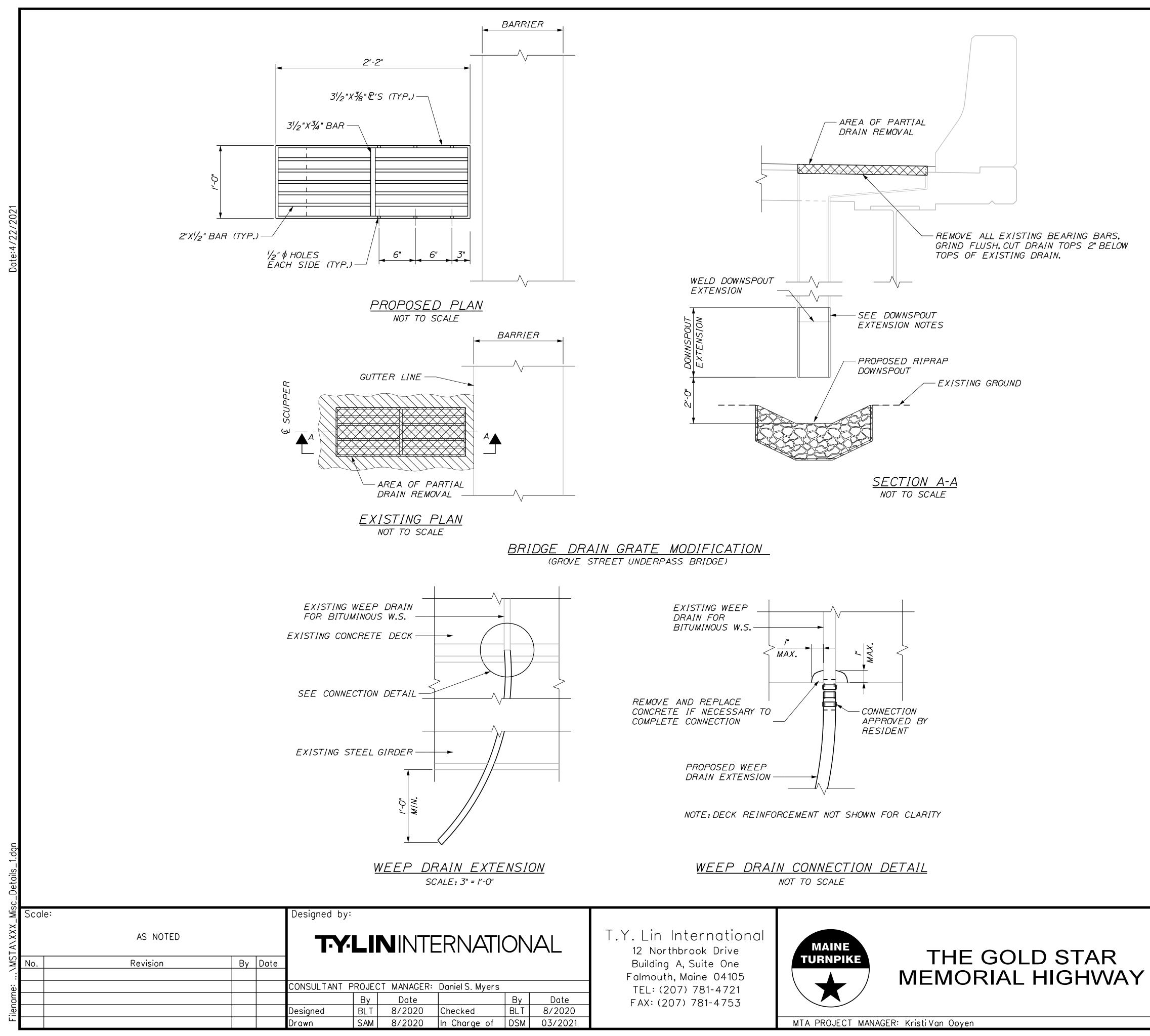






IDGE	DECK
RSE	OVER

JOIN	JOINT INSTALLATION TABLE FOR ABUTMENTS									
TEMP (°F)	15°	25°	35°	45°	55°	65°	75°			
OPENING	1 ³ /4"	1 ⁵ ⁄8"	1 ⁹ /16"	11/2"	I ^{7/} 16"	³ /8"	<i> /₄"</i>			



DOWNSPOUT EXTENSION NOTES:

- I. PRIOR TO STARTING THE WORK THE CONTRACTOR SHALL FIELD MEASURE EACH DRAIN. THIS INFORMATION SHALL BE USED FOR THE FABRICATION OF THE DOWNSPOUT EXTENSIONS.
- 2. DOWNSPOUT EXTENSIONS SHALL CONFORM TO ASTM A 36 AND SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. IN ACCORDANCE WITH ASTM A 123.
- 3. PREPARE NEW AND EXISTING DOWNSPOUT FOR FIELD WELD. FIELD WELD THE EXTERIOR PERIMETER JOINTS BETWEEN NEW AND EXISTING DOWNSPOUTS THE INTERIOR AND EXTERIOR OF THE NEW DOWNSPOUT WELDS SHALL BE COATED WITH AN APPROVED COLD GALVANIZING COMPOUND AFTER WELDING.
- 4. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THE BRIDGE DRAIN MODIFICATION WILL BE UNDER ITEM 502.701, "BRIDGE DRAIN GRATE MODIFICATION."

BRIDGE DRAIN GRATE MODIFICATION NOTES:

- I. PRIOR TO STARTING THE WORK THE CONTRACTOR SHALL FIELD MEASURE EACH DRAIN. THIS INFORMATION SHALL BE USED FOR THE FABRICATION OF THE DRAIN GRATE EXTENSIONS.
- 2. CONTRACTOR SHALL CLEANLY CUT AND REMOVE THE TOP OF EXISTING DRAINS 2" BELOW EXISTING TOP OF DRAIN. THE DECK CONCRETE AROUND THE FULL PERIMETER OF THE DRAIN SHALL BE MECHANICALLY REMOVED TO A MINIMUM DEPTH OF 1/2" BY A MINIMUM WIDTH OF 3".
- 3. ALL PLATES SHALL CONFORM TO ASTM A 36. DRAIN GRATE EXTENSIONS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123.
- 4. ALIGNMENT TABS ARE OPTIONAL. AFFIX AND GALVANIZE WITH DRAIN GRATE EXTENSIONS, IF USED.
- 5. PREPARE EXISTING DRAIN BODY AND NEW DRAIN TOP GRATE EXTENSION FOR FIELD WELD. FIELD WELD THE EXTERIOR PERIMETER JOINT BETWEEN EXISTING DRAIN BODY AND NEW TOP OF DRAIN AFTER WELDING, THE INTERIOR AND EXTERIOR OF THE NEW TOP OF DRAIN SHALL BE COATED WITH AN APPROVED COLD GALVANIZING COMPOUND.
- 6. AREAS OF CONCRETE REMOVAL SHALL BE PATCHED USING A SHALLOW CONCRETE PATCHING MATERIAL SELECTED FROM THE MTA APPROVED PRODUCTS LIST. CONCRETE PATCH SHALL BE PLACED, FINISHED AND CURED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- 7. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS ASSOCIATED WITH THE BRIDGE DRAIN MODIFICATION WILL BE UNDER ITEM 502.701, "BRIDGE DRAIN GRATE MODIFICATION."

WEEP DRAIN EXTENSION NOTES:

I. ALL PVC DECK WEEPS WHICH DRAIN ONTO PIERS, ABUTMENTS OR STRUCTURAL STEEL SHALL BE EXTENDED AND DIVERTED AWAY FROM BRIDGE COMPONENTS BELOW DECK, AND SHALL EXTEND IFT BELOW BOTTOM FLANGE, AS DIRECTED BY THE RESIDENT. PAYMENT SHALL BE MADE UNDER PAY ITEM 502.7011, "WEEP DRAIN EXTENSIONS".

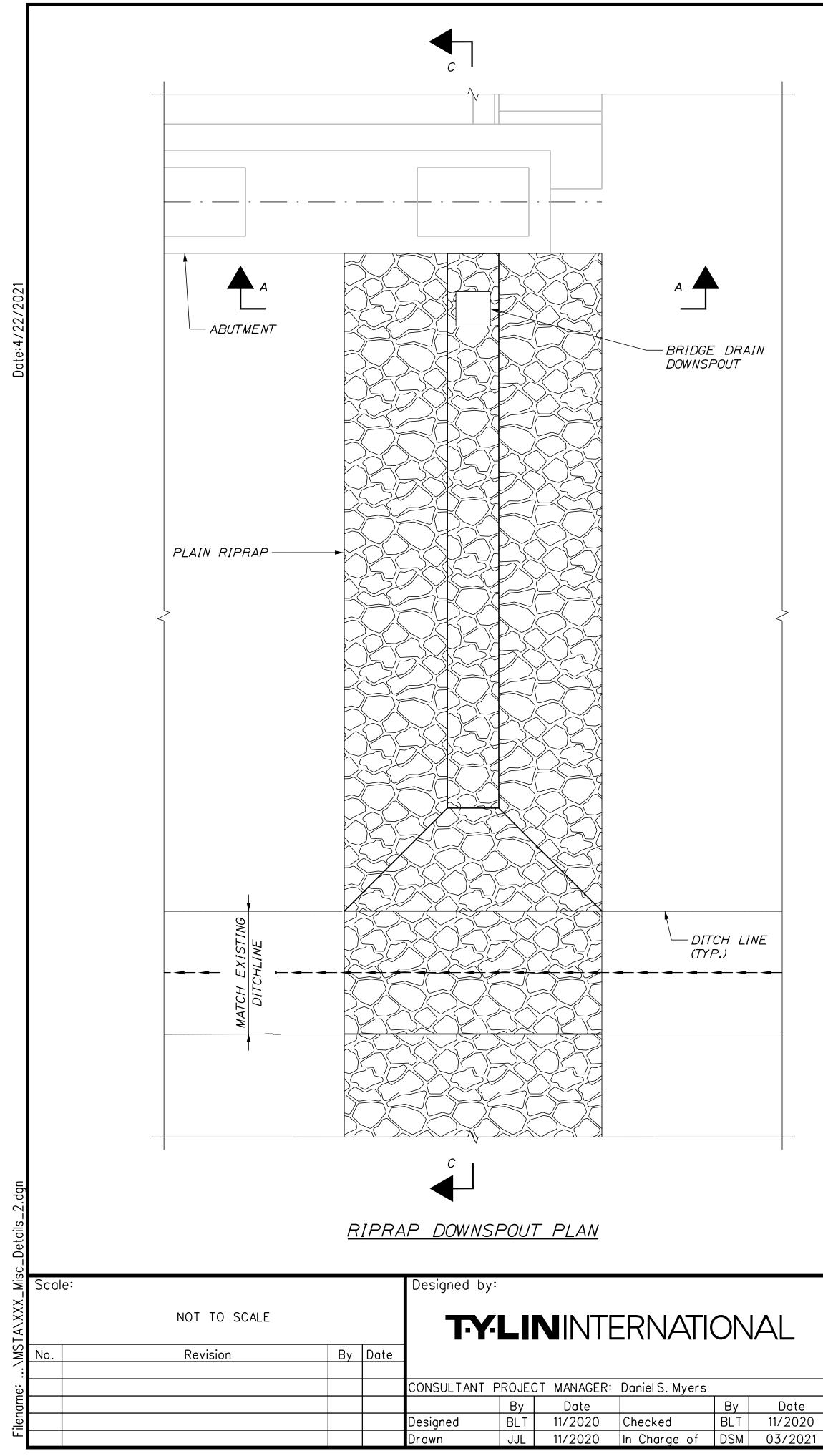
2021 BRIDGE REPAIRS

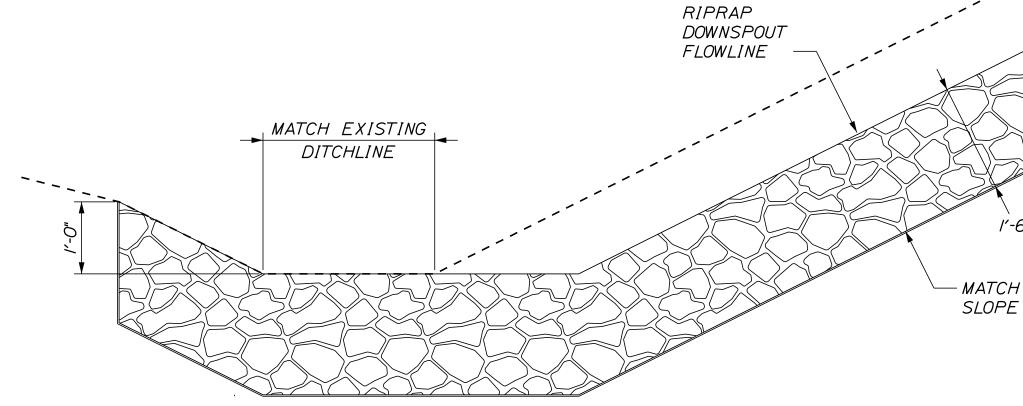
MISCELLANEOUS DETAILS SHEET 1 OF 2

CONTRACT:2021.03

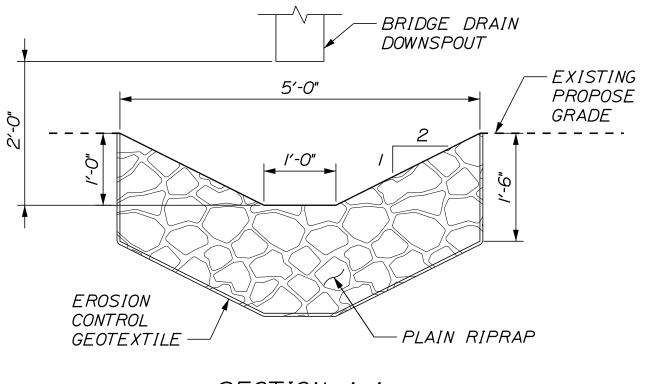
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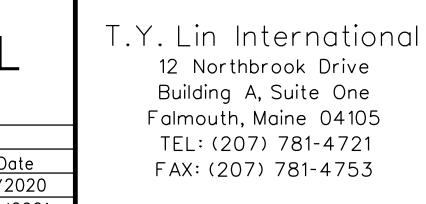




SECTION C-C



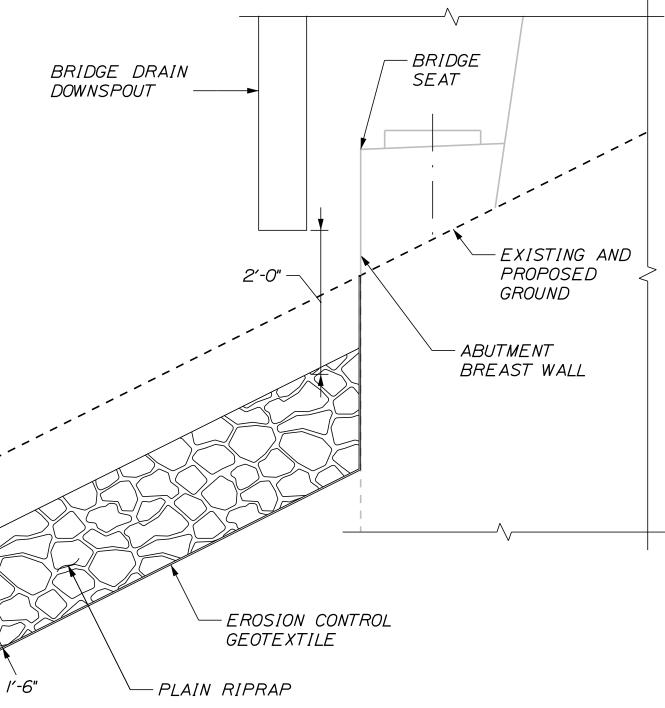
SECTION A-A







MTA PROJECT MANAGER: KristiVan Ooyen



- MATCH EXISTING

NOTES:

- I. PAYMENT FOR ALL EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO PLACE RIPRAP DOWNSPOUTS SHALL BE MADE UNDER ITEM 610.08, "PLAIN RIPAP" AND ITEM 620.58, "EROSION CONTROL GEOTEXTILE".
- 2. RIPRAP DOWNSPOUTS SHALL BE PLACED PARALLEL TO THE BRIDGE CENTERLINE, IN THE APPROXIMATE LOCATIONS OF THE EXISTING DRAIN TROUGHS AND DOWNSPOUTS.
- 3. ANY EXISTING RIPRAP DOWNSPOUTS OR TROUGHS SHALL BE REMOVED ENTIRELY PRIOR TO PLACING PROPOSED RIPRAP DOWNSPOUTS WITH APPROVAL BY THE RESIDENT.
- 4. THE PROPOSED RIPRAP DOWNSPOUTS SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER THE REMOVAL OF ANY EXISTING UNDERBRIDGE DRAINAGE SYSTEM. ANY DAMAGE TO EXISTING SLOPES AFTER THE EXISTING UNDERBRIDGE DRAINAGE SYSTEM HAS BEEN REMOVED, AND PRIOR TO INSTALLATION OF PROPOSED RIPRAP DOWNSPOUTS, WILL BE REPAIRED AT NO ADDITIONAL COST TO THE AUTHORITY.
- 5. SPLICES IN EROSION CONTROL GEOTEXTILE UNDER RIPRAP DOWNSPOUTS WILL NOT BE ALLOWED.

2021 BRIDGE REPAIRS

MISCELLANEOUS DETAILS SHEET 2 OF 2

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