LOCATION MAP

THE GOLD STAR  
MEMORIAL HIGHWAY

MAINE TURNPIKE AUTHORITY

MICHAEL J. CIANCHETTE, CHAIRMAN  
JANE L. LINCOLN, VICE-CHAIR  
EMILY BECKER, POLAND, MEMBER  
NINA A. FISHER, FARMINGDALE, MEMBER  
ANDREW MCLEAN, GORHAM, MEMBER  
THOMAS J. ZUKE, SACO, MEMBER  
DALE F. DOUGHTY, MEMBER EX-OFFICIO

ANDRE J. BRIERE, COLONEL, USAF (RET.), EXECUTIVE DIRECTOR

CONTRACT 2026.22  
WEST GARDINER  
TUNNEL REPAIR  
MILE MARKER 100.2

CONTRACT 2026.22  
NEW GLOUCESTER  
TUNNEL REPAIR  
MILE MARKER 67.0

**CONTRACT 2026.22**  
**TOLL PLAZA TUNNEL REPAIR**  
**NEW GLOUCESTER (MM 67.0)**  
**WEST GARDINER (MM 100.2)**

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES AND QUANTITIES
3-19	TUNNEL REPAIRS

**CONTRACT 2026.22**

**HNTB**

APPROVED:

MAINE TURNPIKE AUTHORITY

STEPHEN R. TARTRE, P.E., - CHIEF ENGINEER/DIRECTOR OF ENGINEERING

DATE

TIMOTHY R. COTE, P.E.  
VICE PRESIDENT/PROJECT DIRECTOR

DATE

GENERAL NOTES

- 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.
- DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE AVAILABLE HISTORICAL PLANS, ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
- ALL CRACKS IN THE TUNNEL WALLS, CEILING, AND STAIRWELLS THAT ARE  $\frac{1}{8}$  INCH WIDE OR GREATER SHALL BE SEALED USING AN EPOXY INJECTION SEALER.
- WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE AND IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS.
- EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
- FILL/BORROW SHALL BE COMPAKTED TO 90% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, EXCEPT AS AMENDED BY SPECIAL PROVISION 203. GRANULAR BORROW AND AGGREGATE SHALL BE COMPAKTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, EXCEPT AS AMENDED BY SPECIAL PROVISION 203.
- MATERIALS AND EQUIPMENT SHALL NOT BE STORED UNDER OR IN CLOSE PROXIMITY TO HIGHWAY STRUCTURES, TOLL SLABS, OR LOOPS UNLESS THE CONTRACTOR RECEIVES WRITTEN PERMISSION FROM THE AUTHORITY.
- COPIES OF THE AS-BUILT PLANS ARE POSTED ON THE MAINE TURNPIKE AUTHORITY WEBSITE AT [WWW.MAINETURNPIKE.COM/PROJECTS/CONSTRUCTION-CONTRACTS](http://WWW.MAINETURNPIKE.COM/PROJECTS/CONSTRUCTION-CONTRACTS). THE COMPLETENESS AND ACCURACY OF THESE PLANS IS NOT GUARANTEED.
- CHAMFER ALL EXPOSED NEW CONCRETE EDGES  $\frac{3}{4}$ " UNLESS OTHERWISE NOTED.
- ELECTRICAL WORK REQUIRED TO POWER SUMP PUMPS, HEAT TRACE SYSTEMS, AND REPLACED STAIRWELL ENCLOSURE LIGHTING SHALL BE IN ACCORDANCE WITH DIVISION 26 SPECIAL PROVISION. THIS WORK SHALL BE INCIDENTAL TO RELATED CONTRACT PAY ITEMS.

UTILITY NOTES

- EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM EXISTING PLANS 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. THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO THE START OF WORK. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAFE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATOR COORDINATION.
- THE CONTRACTOR SHALL NOTIFY ALL NON-MEMBERS THROUGH [WWW.OKTODIG.COM](http://WWW.OKTODIG.COM) OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL NON-MEMBER NOTIFICATIONS WITHIN 24 HOURS OF THEIR RELEASE.
- THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 CALENDAR DAYS PRIOR TO SUBMITTING ANY UTILITY LOCATE REQUESTS AS NOTED ABOVE SO THAT THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED SIGN AND EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES.
- FOLLOWING THE COMPLETION OF THE INITIAL UTILITY LOCATE THE CONTRACTOR WILL GPS LOCATE ALL UTILITIES WITHIN THE PROJECT LIMITS AND PROVIDE A COPY OF THE DIG SAFE RECORDS TO THE AUTHORITY. THE CONTRACTOR, ACTING AS THE AUTHORITY'S THIRD-PARTY LOCATOR, SHALL BE RESPONSIBLE FOR REMARKING ALL MAINE TURNPIKE FACILITIES WHEN A DIG SAFE UTILITY IS CALLED FOR THE PROJECT. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

DRAINAGE NOTES

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

EROSION CONTROL

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

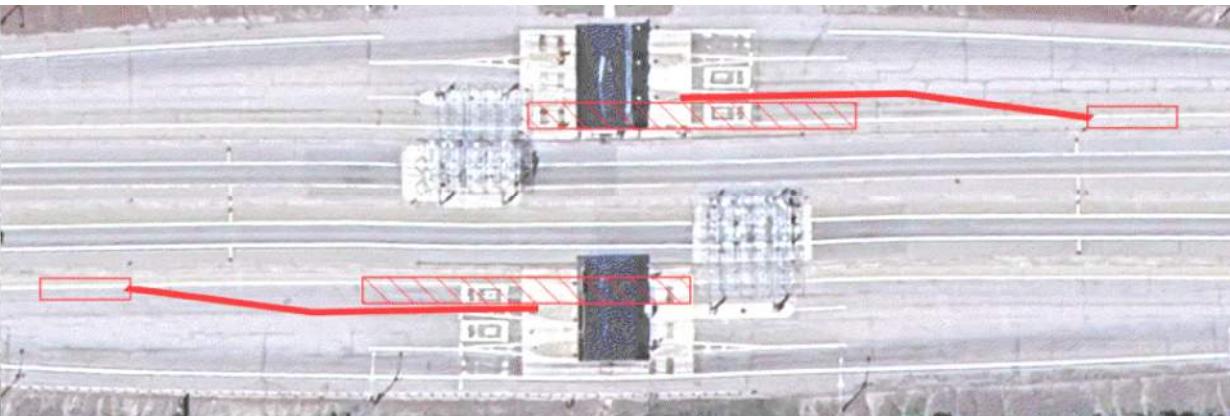
TOLL NOTES

- CUTTING POWER TO TOLLING EQUIPMENT WILL CAUSE CATASTROPHIC FAILURE OF THE EQUIPMENT. PRIOR TO SHUTTING DOWN OR POWERING ANY TOLLING EQUIPMENT, COORDINATION BY THE CONTRACTOR IS REQUIRED WITH THE RESIDENT, MTA'S DIRECTOR OF ITS, AND TRANSCORE.

ESTIMATED QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
515.203	Broadcast Sealant for Concrete Surfaces	SY	1910
518.40	Epoxy Injection Crack Repair	LF	200
518.511	Repair of Concrete Surfaces - Stairwell Steps	LS	1
518.512	Repair of Concrete Surfaces - Stairwell Grinding	EA	4
518.513	Repair of Concrete Surfaces - Stairwell Landing	EA	4
518.514	Tollbooth Blockout Sealing	EA	10
526.306	Temporary Concrete Barrier, Type I - Supplied by Authority (300 LF)	LS	1
527.342	Work Zone Crash Cushions - TL-2	UNIT	1
631.53	Electrician	HR	20
631.54	Electrician's Apprentice	HR	20
652.361	Maintenance of Traffic Control Devices	LS	1
652.41	Portable-Changeable Message Sign	EA	1
659.10	Mobilization	LS	1
800.31	Stairwell Enclosure	LS	1
800.32	Tollbooth Canopy Drainage Modifications	LS	1

LIST OF ABBREVIATIONS

ABUT. - ABUTMENT	EA. - EACH	MTA - MAINE TURNPIKE AUTHORITY	SP. - SPACES
ADDL - ADDITIONAL	EB - EASTBOUND	NB - NORTHBOUND	STA. - STATION
ALT. - ALTERNATE	E.F. - EACH FACE	N.F. - NEAR FACE	T.&B. - TOP & BOTTOM
APPROX. - APPROXIMATELY	EL - ELEVATION	N.T.S. - NOT TO SCALE	TPKE. - TURNPIKE
BL - BASELINE	EQ. - EQUAL	PED. - PEDESTAL	TSYLL - TEMPORARY SOLID YELLOW LANE LINE
BOT. - BOTTOM	EXIST. - EXISTING	PGL - PROFILE GRADE LINE	TSWLL - TEMPORARY SOLID WHITE LANE LINE
BRG. - BEARING	EXP. - EXPANSION	P. - PLATE	TYP. - TYPICAL
CL - CLEAR	F.F. - FAR FACE	PROP. - PROPOSED	U.O.N. - UNLESS OTHERWISE NOTED
CL - CENTERLINE	JT. - JOINT	P.S.I. - POUNDS per SQUARE INCH	VERT. - VERTICAL
CONC. - CONCRETE	MAX. - MAXIMUM	MEDOT - MAINE DEPARTMENT OF TRANSPORTATION	WB - WESTBOUND
CONSTR. - CONSTRUCTION	MIN. - MINIMUM	SHLDR. - SHOULDER	W.P. - WORKING POINT
C.Y. - CUBIC YARD	DIA. - DIAMETER	SB - SOUTHBOUND	WW - WINGWALL
DEMO. - DEMOLITION			



EXAMPLE LOCATION OF TEMPORARY CONCRETE BARRIER AND WORK ZONE CRASH CUSHION AT NEW GLOUCESTER  
N.T.S.

Scale:  
No. Revision By Date

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.

By Date

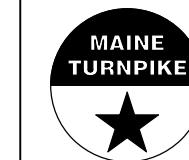
Designed WWL 09/25

Checked DAM 09/25

Drawn BRG 09/25

In Charge of TRC 09/25

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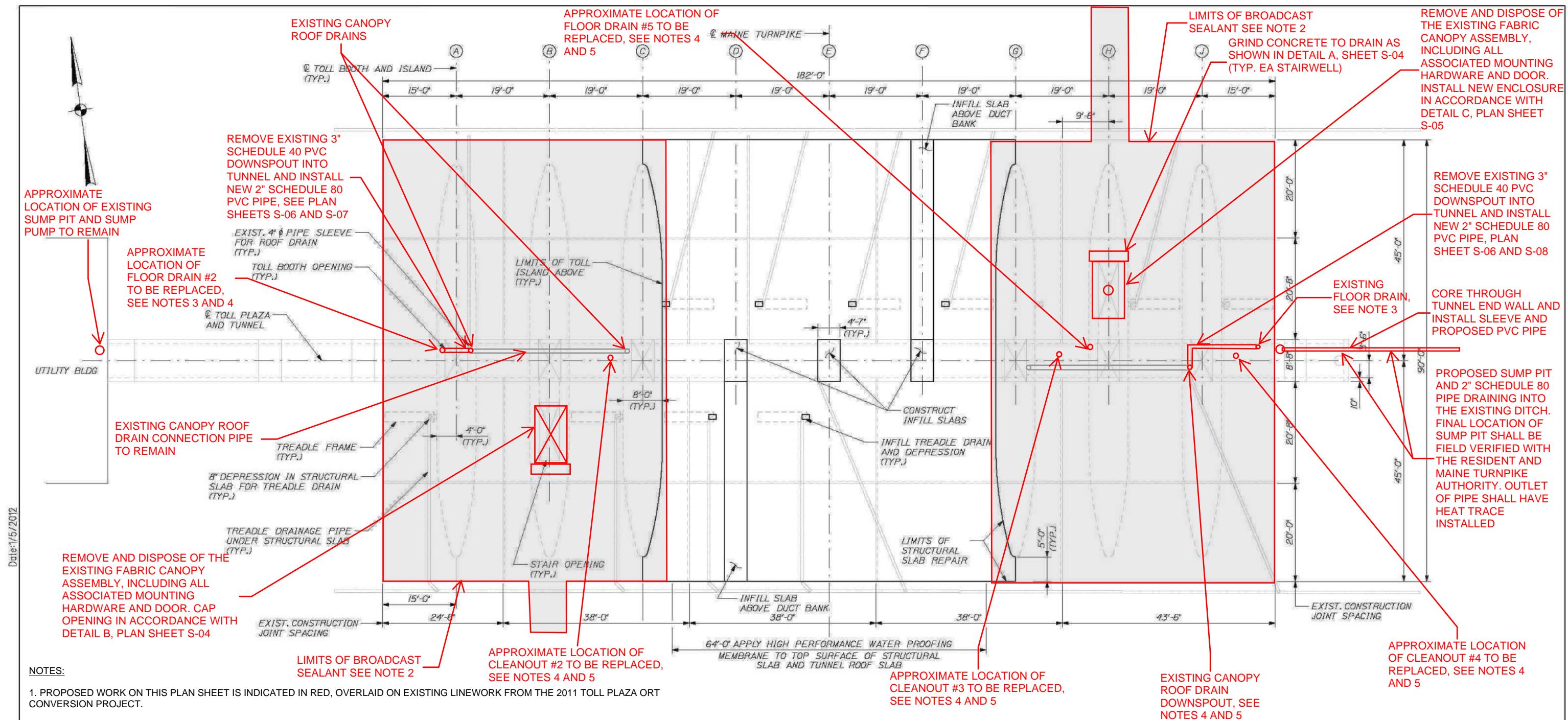
THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OYEN, P.E.

WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS

GENERAL NOTES AND QUANTITIES

SHEET NUMBER: EQ-01  
CONTRACT:2026.22  
2 OF 19



## PLAN - TUNNEL REPAIRS

NTS

Scale:

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Designed by

HNTB

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No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.					
				Designed	By	Date	Checked	By	Date
				KJK	09/25		BRG	09/25	
				DK	09/25	In Charge of	TPC	09/25	

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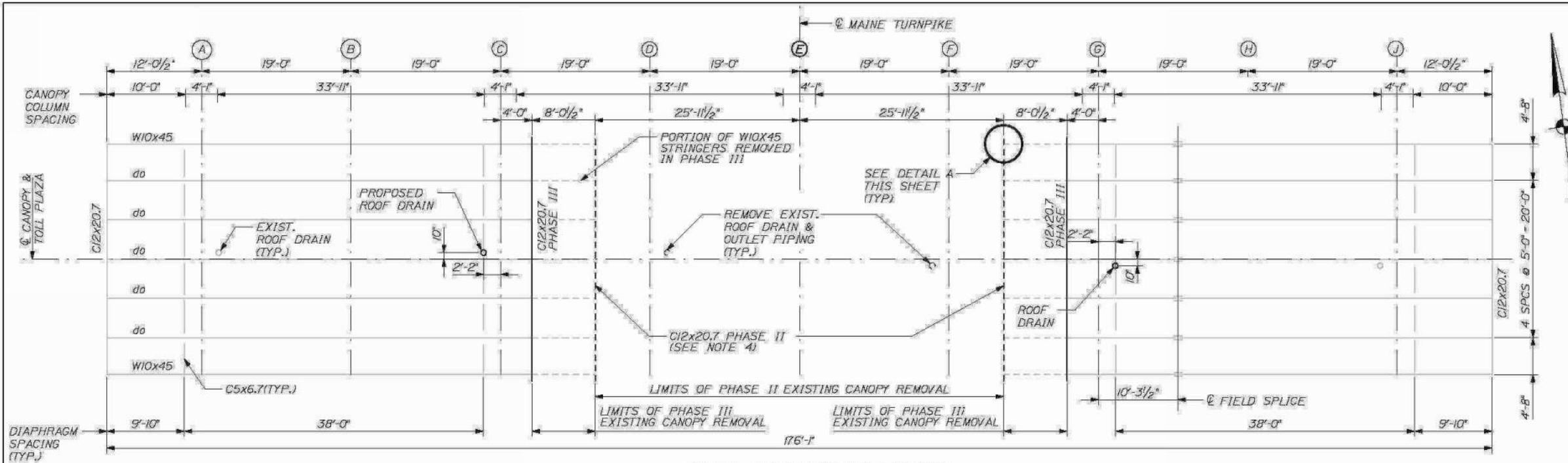


# THE GOLD STAR MEMORIAL HIGHWAY

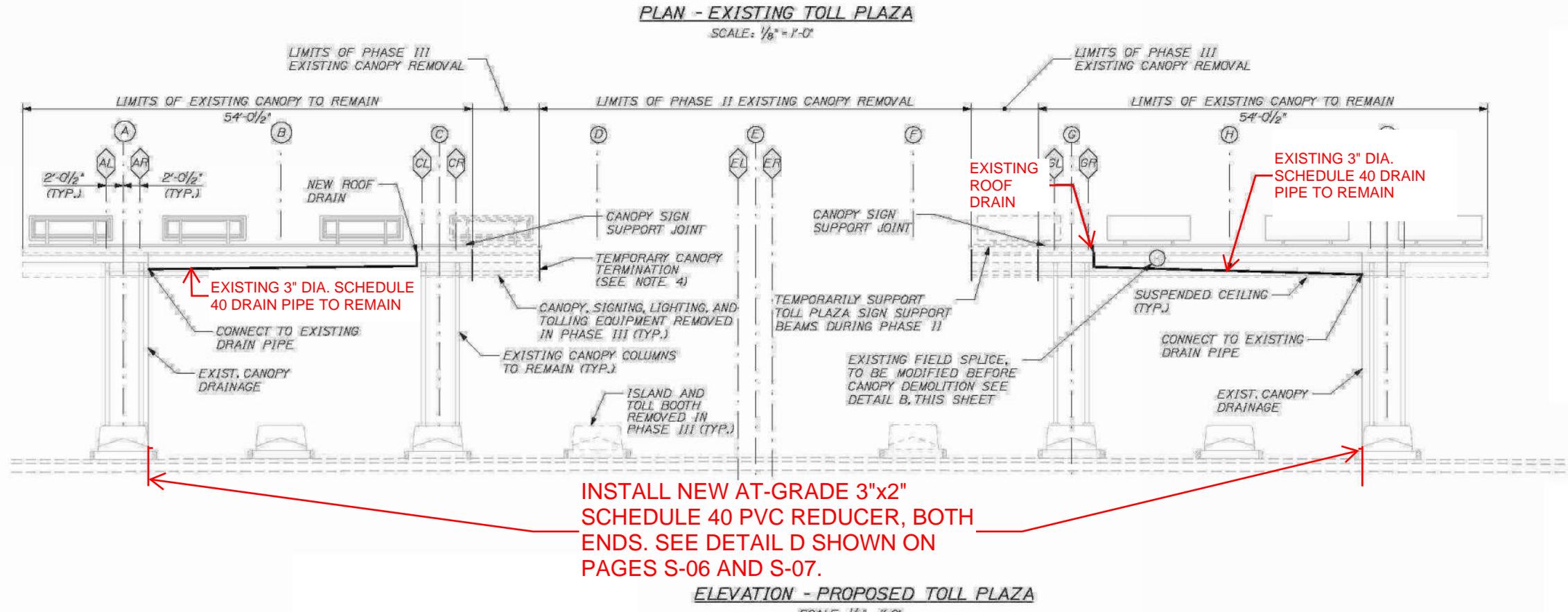
## WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS

IEEE NUMBER: 60

NUMBER: 3-01



Date: 1/15/2012



**NOTES:**

1. PROPOSED WORK ON THIS PLAN SHEET IS INDICATED IN RED, OVERLAIDED ON EXISTING LINework FROM THE 2011 TOLL PLAZA ORT CONVERSION PROJECT

Scale:  Designed by

y:

**HNTE**

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## THE GOLD STAR MEMORIAL HIGHWAY

# WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS

## NEW GLOUCESTER TOLL TUNNEL

SHEET NUMBER: S-01

Date: 2/13/2015

EXISTING CANOP  
ROOF DRAIN TO  
REMAIN

CORE THROUGH  
TUNNEL END WALL AND  
INSTALL SLEEVE AND  
PROPOSED PVC PIPE,  
SEE ENDWALL  
PENETRATION DETAIL,  
PLAN SHEET S-10

**PROPOSED SUMP PIT AND 2"  
SCHEDULE 80 PVC PIPE  
DRAINING INTO THE EXISTING  
DITCH. FINAL LOCATION OF  
SUMP PIT SHALL BE FIELD  
VERIFIED WITH THE RESIDENT  
AND MTA PERSONNEL.  
OUTLET PIPE SHALL HAVE  
HEAT TRACE INSTALLED**

GRIND CONCRETE TO DRAIN  
AS SHOWN IN DETAIL A  
SHEET S-04 (TYP. EA  
STAIRWELL)

signed b

**HNTB**

## PLAN - TUNNEL REPAIRS

NTS

cale

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## Revision

Designed by \_\_\_\_\_  
Date \_\_\_\_\_

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## THE GOLD STAR MEMORIAL HIGHWAY

## WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS

SHEET NUMBER: S-03

NUMBER: S-03

ED: KRIJSL VAN GOYEN, B.F.

CONTRACT: 2026 22

1  
REMOVE AND DISPOSE OF THE EXISTING  
FABRIC CANOPY ASSEMBLY, INCLUDING  
ALL ASSOCIATED MOUNTING HARDWARE  
AND DOOR. INSTALL NEW ENCLOSURE IN  
ACCORDANCE WITH DETAIL C, PLAN  
SHEET S-05

## NOTES

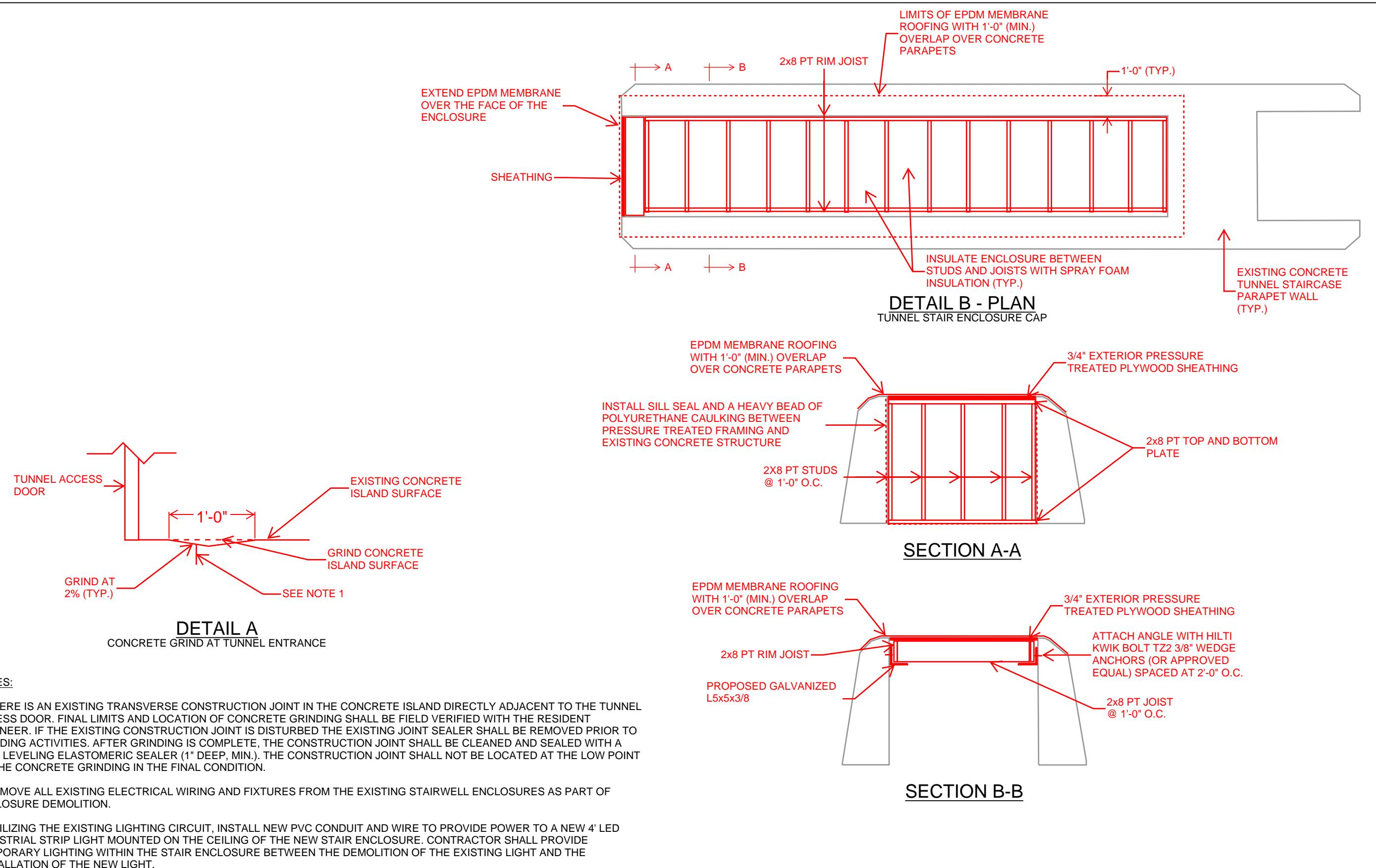
1. PROPOSED WORK ON THIS PLAN SHEET IS INDICATED IN RED, OVERLAIDED ON EXISTING LINWORK FROM THE 2011 TOLL PLAZA ORT CONVERSION PROJECT.
  2. ALL HORIZONTAL CONCRETE SURFACES SHALL RECEIVE TWO COATS OF BROADCAST SEALANT IN ACCORDANCE WITH SPECIAL PROVISION 515.
  3. PROPOSED SUMP PITS SHALL BE CONSTRUCTED ON THE WEST END OF THE TUNNEL. THE EXISTING FUNCTIONING FLOOR DRAIN ON THE EAST END OF THE TUNNEL SHALL REMAIN IN PLACE. THE FLOOR DRAIN AND OUTLET PIPE SHALL BE CLEANED AND DESCALDED WITH CHAIN CLEANING THEN FLUSHED TO REMOVE ANY LOOSE DEBRIS. PIPE SHALL THEN BE SEALED WITH 2 COATS OF PICOTE XPRESS EPOXY COATING SYSTEM OR APPROVED EQUAL. FLOW THROUGH THIS PIPE SHALL BE VERIFIED BY THE CONTRACTOR AND RESIDENT PRIOR TO ORDERING MATERIALS OR BEGINING WORK. ON THE WEST END OF THE TUNNEL, THE SUMP PIT FINAL LOCATION SHALL BE FIELD VERIFIED WITH THE RESIDENT AND THE MAINE TURNPIKE AUTHORITY.
  4. ALL CRACKS IN THE TUNNEL WALLS, CEILING, AND STAIRWELLS THAT ARE 1/8 INCH WIDE OR GREATER SHALL BE SEALED USING AN EPOXY INJECTION SEALER.

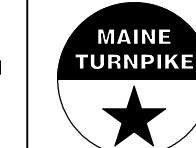
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No.	Revision

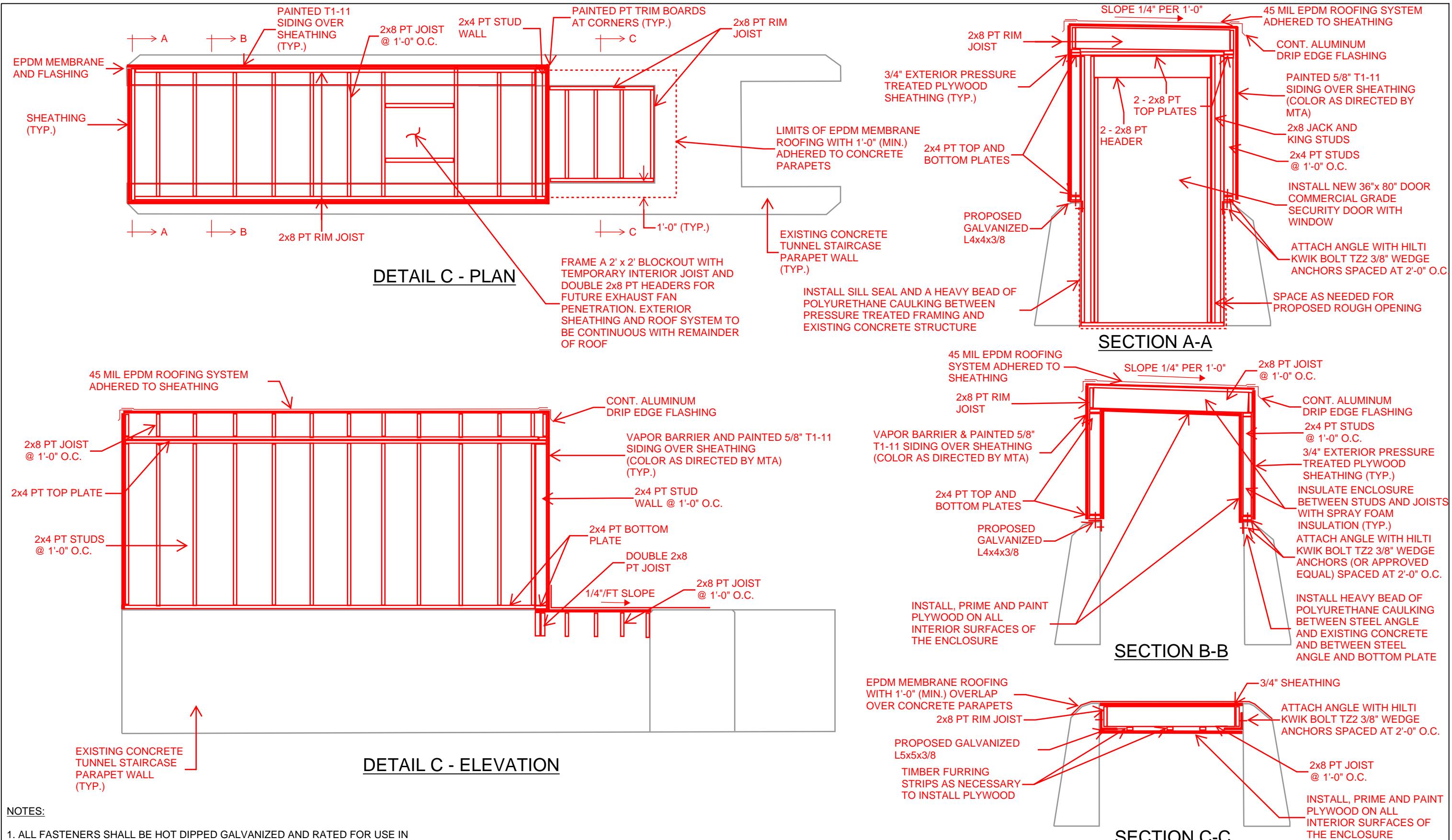
E

	Designed by:					
te						
	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.					
	By	Date	By	Da		
Designed	KJK	09/25	Checked	BRG	09/25	
	16116	09/25		TPG	09/25	

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Scale:  NOT TO SCALE	Designed by:  <b>HNTB</b>	HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909	MAINE TURNPIKE  THE GOLD STAR MEMORIAL HIGHWAY	WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS  STAIR ENCLOSURE CAP
No.	Revision	By Date	Designed By Date Drawn By Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E. MTA PROJECT MANAGER: KRISTI VAN OYEN, P.E. SHEET NUMBER: S-04 CONTRACT: 2026.22 6 OF 19



NOTES:

1. ALL FASTENERS SHALL BE HOT DIPPED GALVANIZED AND RATED FOR USE IN PRESSURE TREATED WOOD.

Scale:

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No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.					
				Designed	KJK	09/25	Checked	BRG	09/25
				Drawn	KJK	09/25	In Charge of	TRC	09/25

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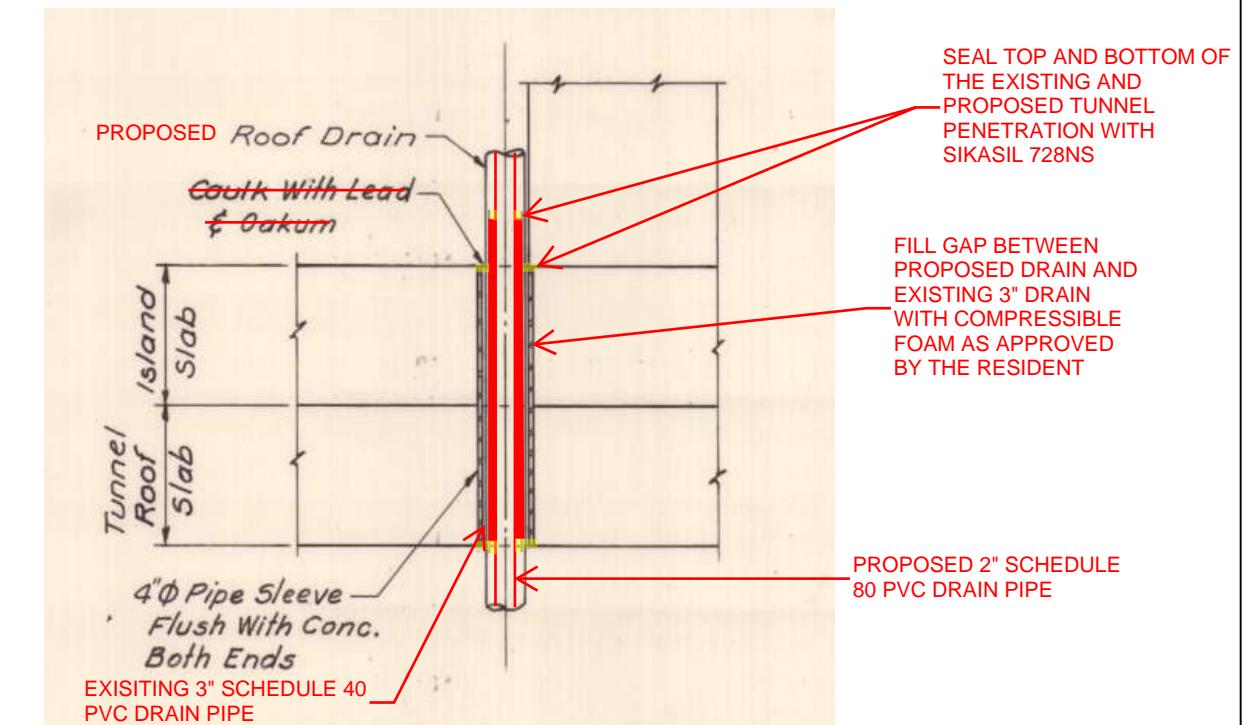
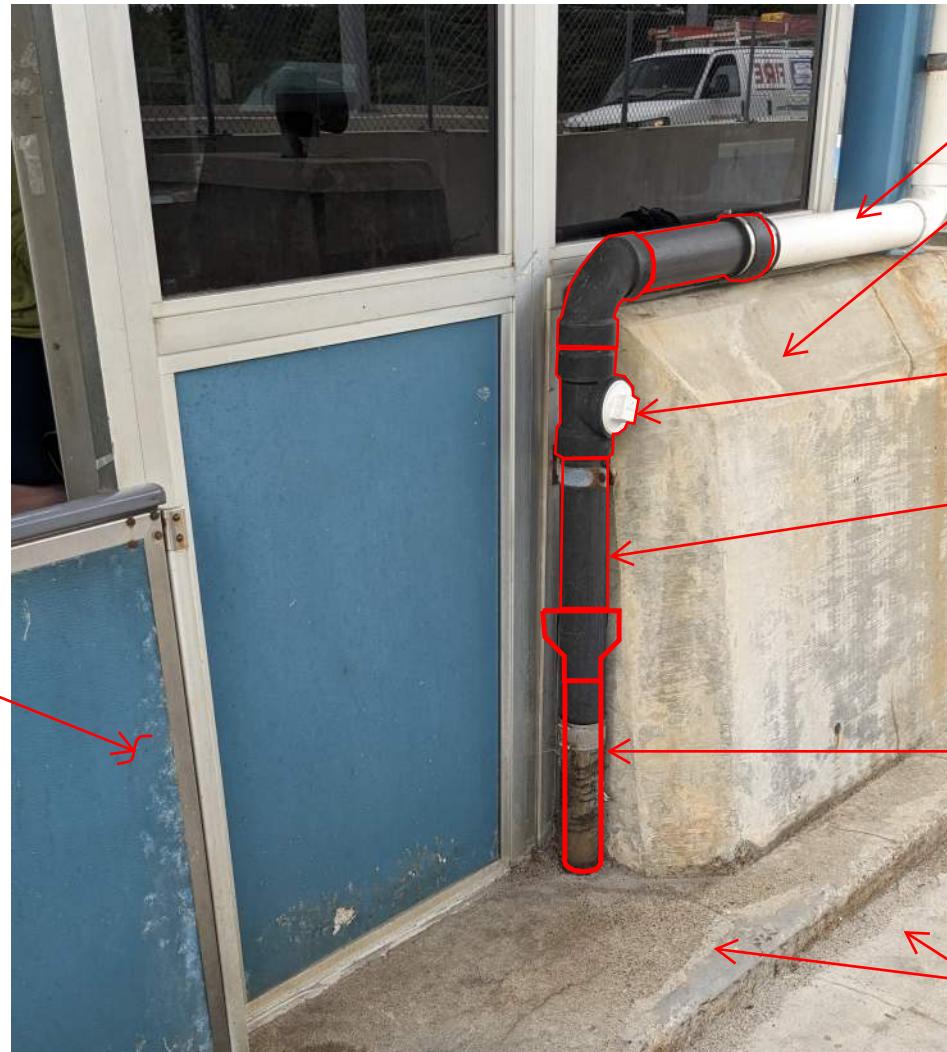
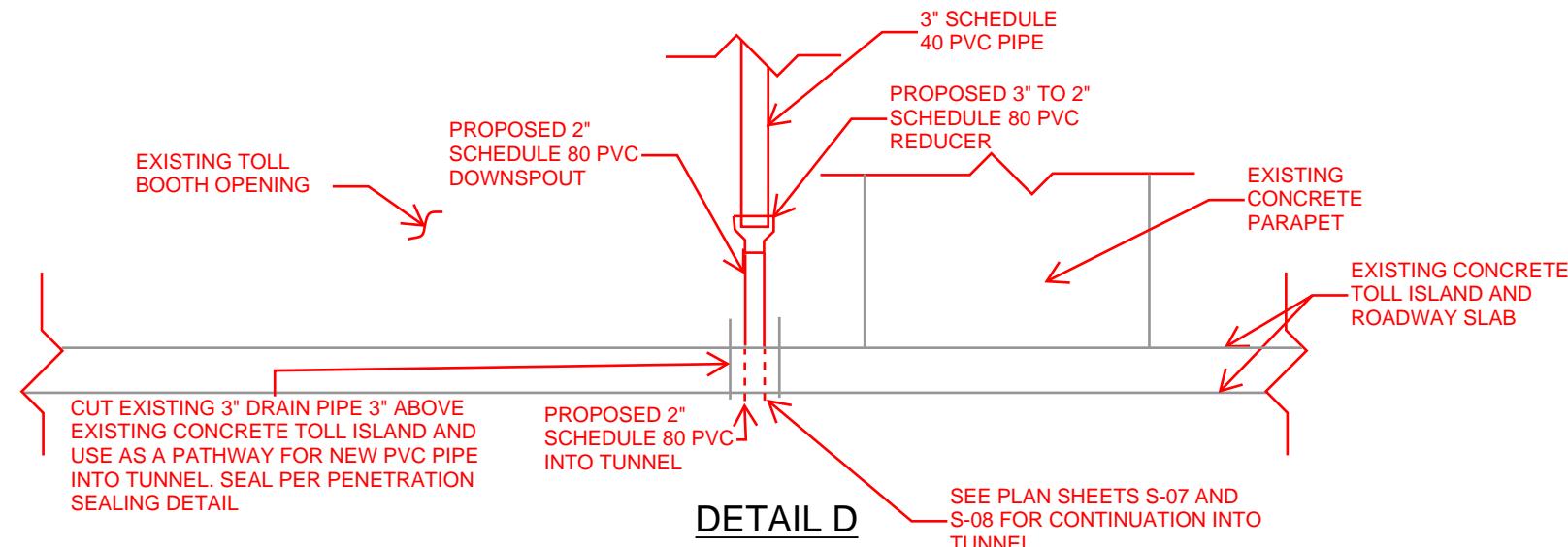


## THE GOLD STAR MEMORIAL HIGHWAY

# WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS

## STAIR ENCLOSURE

SHEET NUMBER: S-05  
CONTRACT:2026.22 7 OF 19



## NEW GLOUCESTER CANOPY DRAIN REPLACEMENT ELEVATION - ROADWAY

## NEW GLOUCESTER TUNNEL PENETRATION SEALING DETAIL

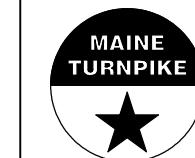
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No.	Revision	By	Date				
		CONSULTANT	PROJECT	MANAGER:	DALE MITCHELL, P.E.		
			By	Date		By	Date
		Designed	KJK	09/25	Checked	BRG	09/25
		Drawn	KJK	09/25	In Charge of	TRC	09/25

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# THE GOLD STAR MEMORIAL HIGHWAY

WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
CANOPY DRAIN MODIFICATION DETAILS |

SHEET NUMBER: S-06

NUMBER: S-06



NEW GLOUCESTER CANOPY DRAIN  
REPLACEMENT ELEVATION - CONFIGURATION 1

SEE PLAN SHEET S-06 FOR  
TOPSIDE MODIFICATIONS.

EXISTING TUNNEL  
PENETRATION FROM ROOF  
CANOPY DRAIN TO REMAIN

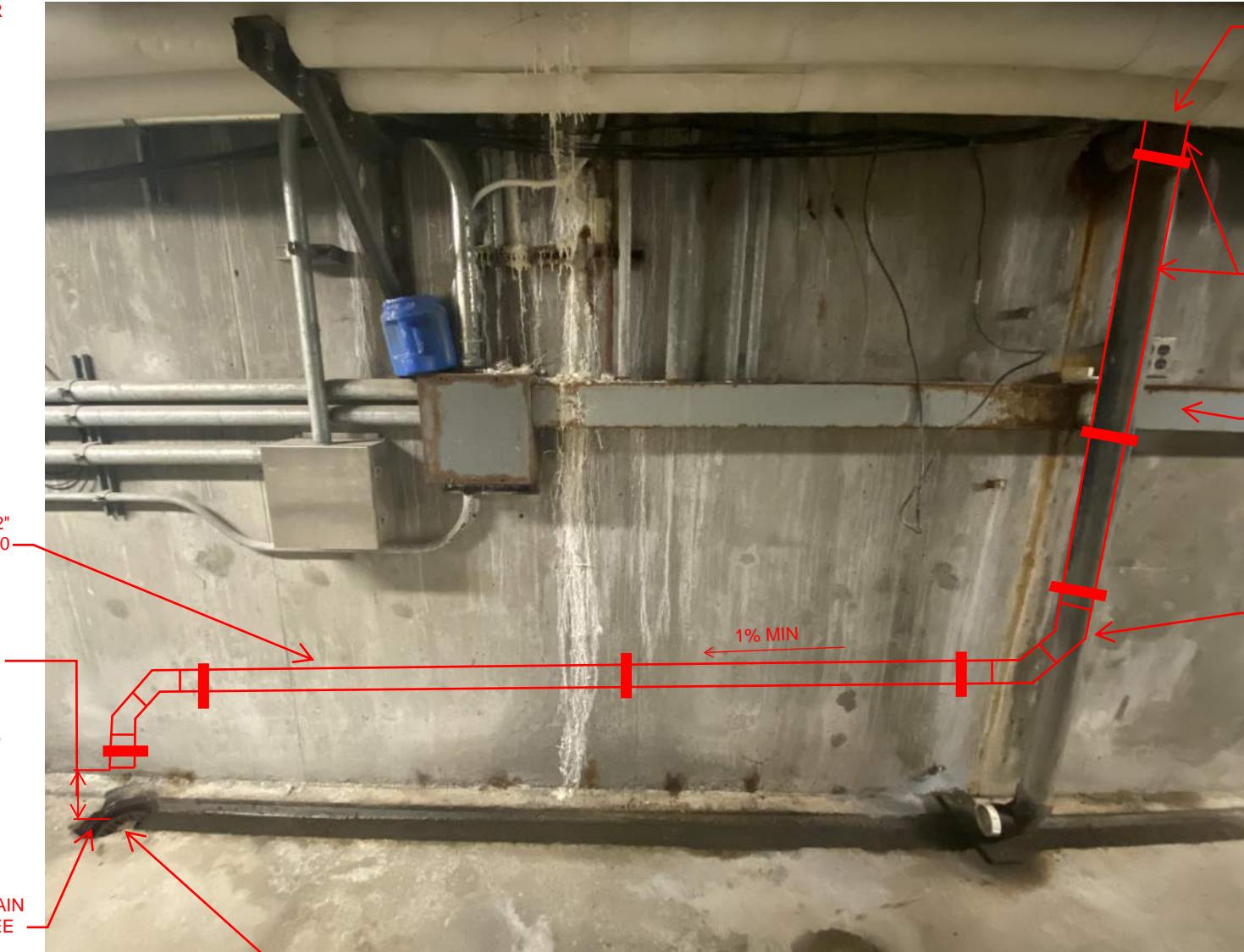
CAP AND SEAL EXISTING  
TUNNEL SIDE WALL  
PENETRATION WITH  
END OF PIPE PLUG WITH  
WING NUT

PROPOSED 2"  
SCHEDULE 80  
PVC PIPE

3" MIN.  
6" MAX.

REMOVE EXISTING  
WYE FITTING AND 3"  
SCHEDULE 40 PIPE

EXISTING FLOOR DRAIN  
TO BE REPLACED, SEE  
PLAN SHEET S-12



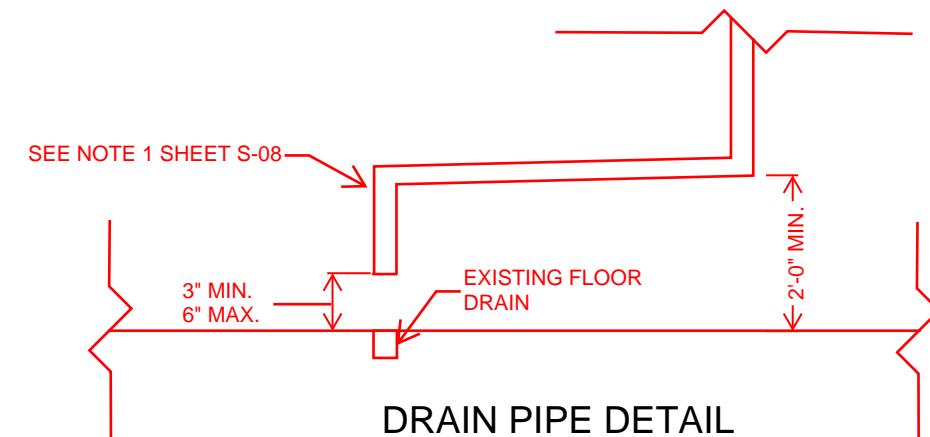
SEE PLAN  
SHEET S-06 FOR  
TOPSIDE  
MODIFICATIONS.

REMOVE  
EXISTING  
DOWNSPOUT  
AND REPLACE  
WITH 2"  
SCHEDULE 80  
PVC PIPE

EXISTING  
ELECTRICAL  
RACEWAY

SEE NOTE 2  
SHEET S-08

NEW GLOUCESTER CANOPY DRAIN  
REPLACEMENT ELEVATION - CONFIGURATION 1



Scale:  
**NOT TO SCALE**

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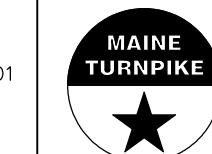
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Revision

By

Date

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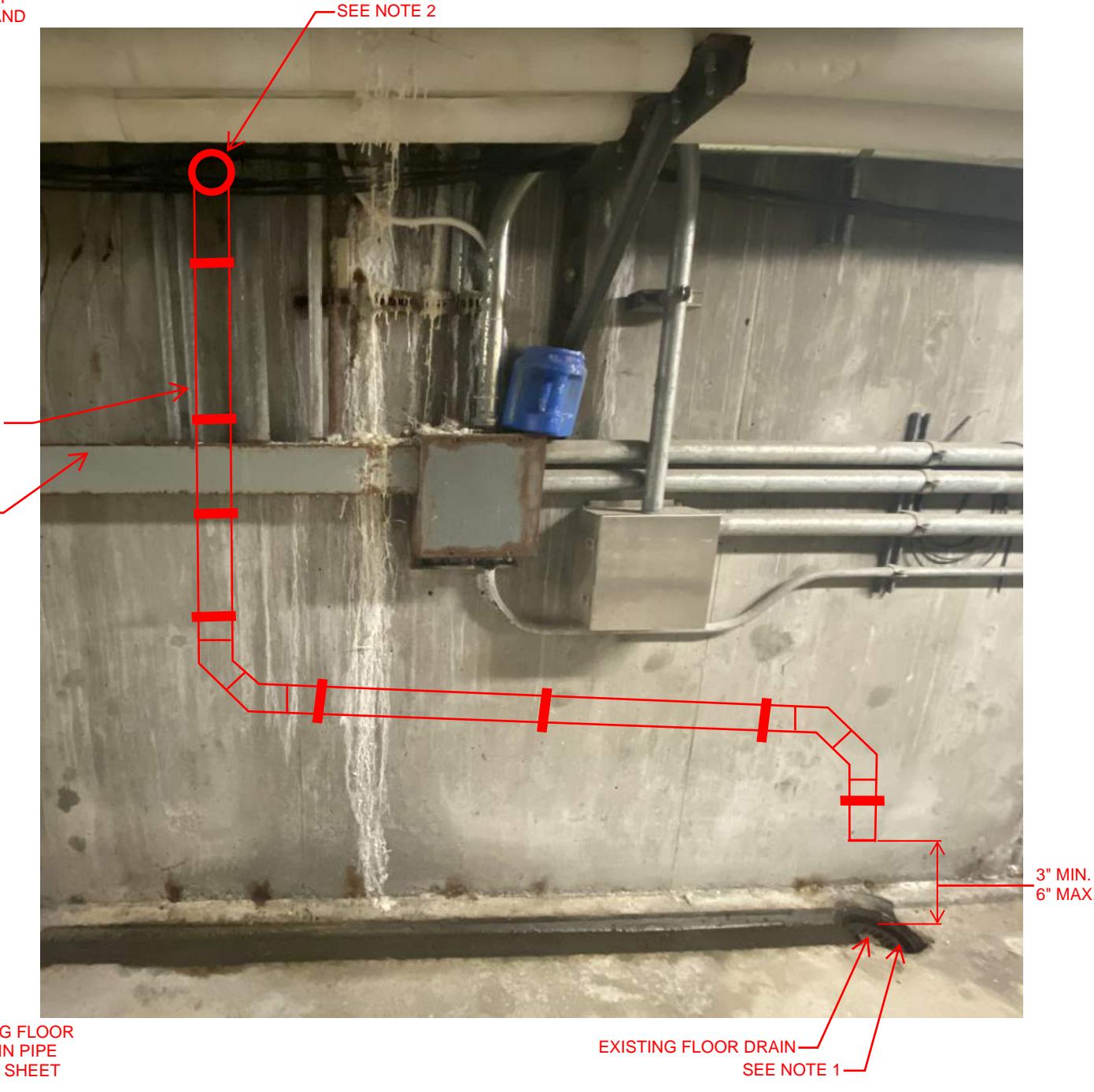
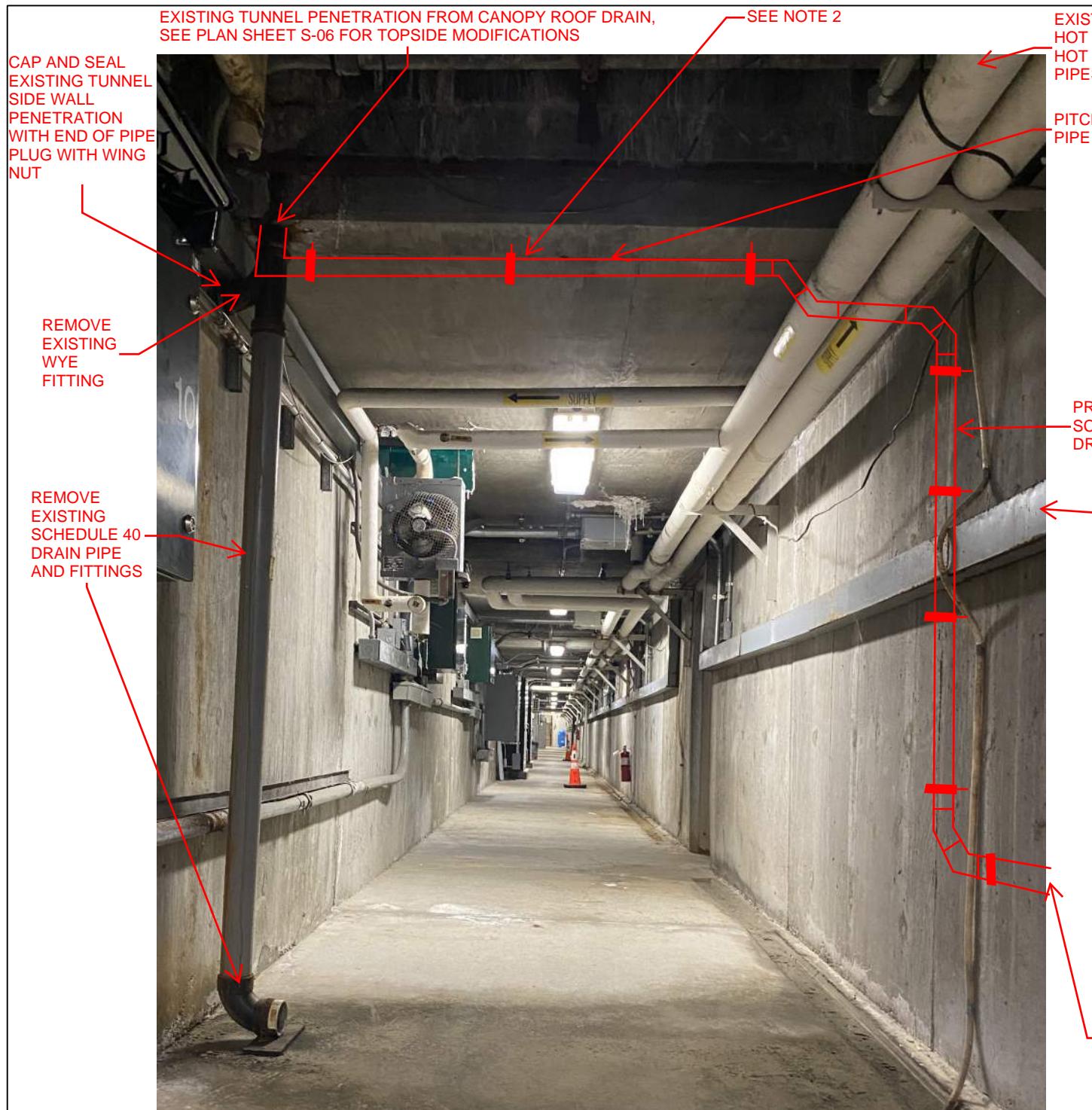
**THE GOLD STAR  
MEMORIAL HIGHWAY**

**WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
CANOPY DRAIN MODIFICATION DETAILS II**

SHEET NUMBER: S-07

CONTRACT: 2026.22

9 OF 19



### NEW GLOUCESTER CANOPY DRAIN REPLACEMENT ELEVATION - CONFIGURATION 2

#### NEW GLOUCESTER CANOPY DRAIN REPLACEMENT ELEVATION - CONFIGURATION 2

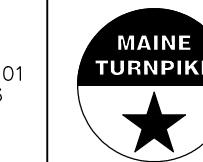
##### NOTES:

1. THE DRAIN PIPE DOWNSPOUTS FROM THE TUNNEL PENETRATION SHALL BE PIPED HORIZONTALLY AT 1/4" PER FOOT ALONG THE WALL TO THE CLOSEST FLOOR DRAIN LOCATION AT THE NEW GLOUCESTER TOLL PLAZA.
2. SCHEDULE 80 PVC 2" DRAIN PIPE SHALL BE SUPPORTED BOTH HORIZONTALLY AND VERTICALLY USING GALVANIZED SPLIT RING HANGERS WITH MINIMUM 3/8" RODS FASTENED TO CONCRETE STRUCTURE, OR AS APPROVED BY THE RESIDENT. HANGERS SHALL BE SPACED NO FURTHER THAN 48" APART AND WITHIN 12" OF A CHANGE OF DIRECTION.

Scale:  NOT TO SCALE			
No.	Revision	By	Date

Designed by:							
<b>HNTB</b>							
CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.							
		By	Date				
		KJK	09/25	Checked	BRG	09/25	
		Designed					
		KJK	09/25	In Charge of	TRC	09/25	

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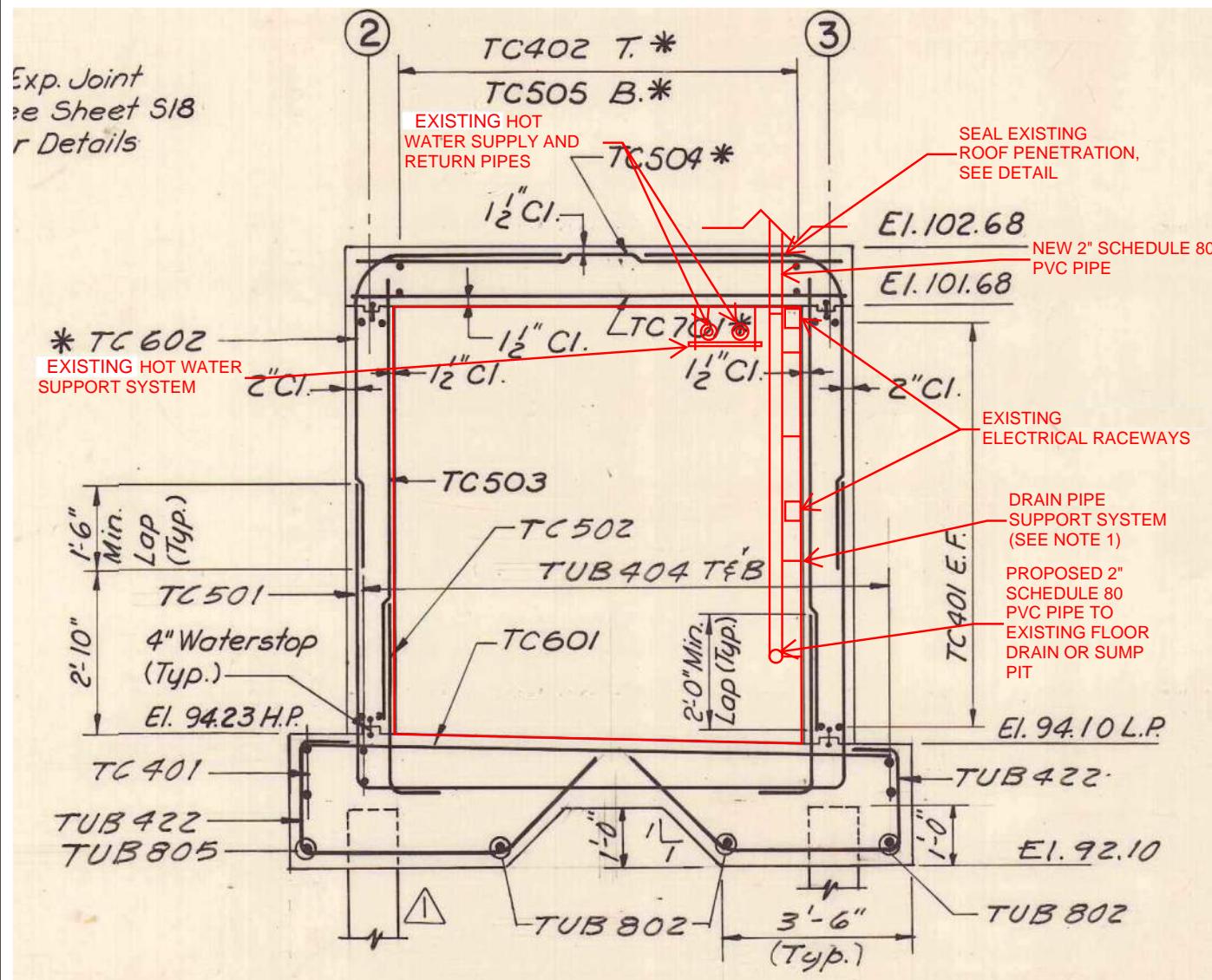


THE GOLD STAR  
MEMORIAL HIGHWAY

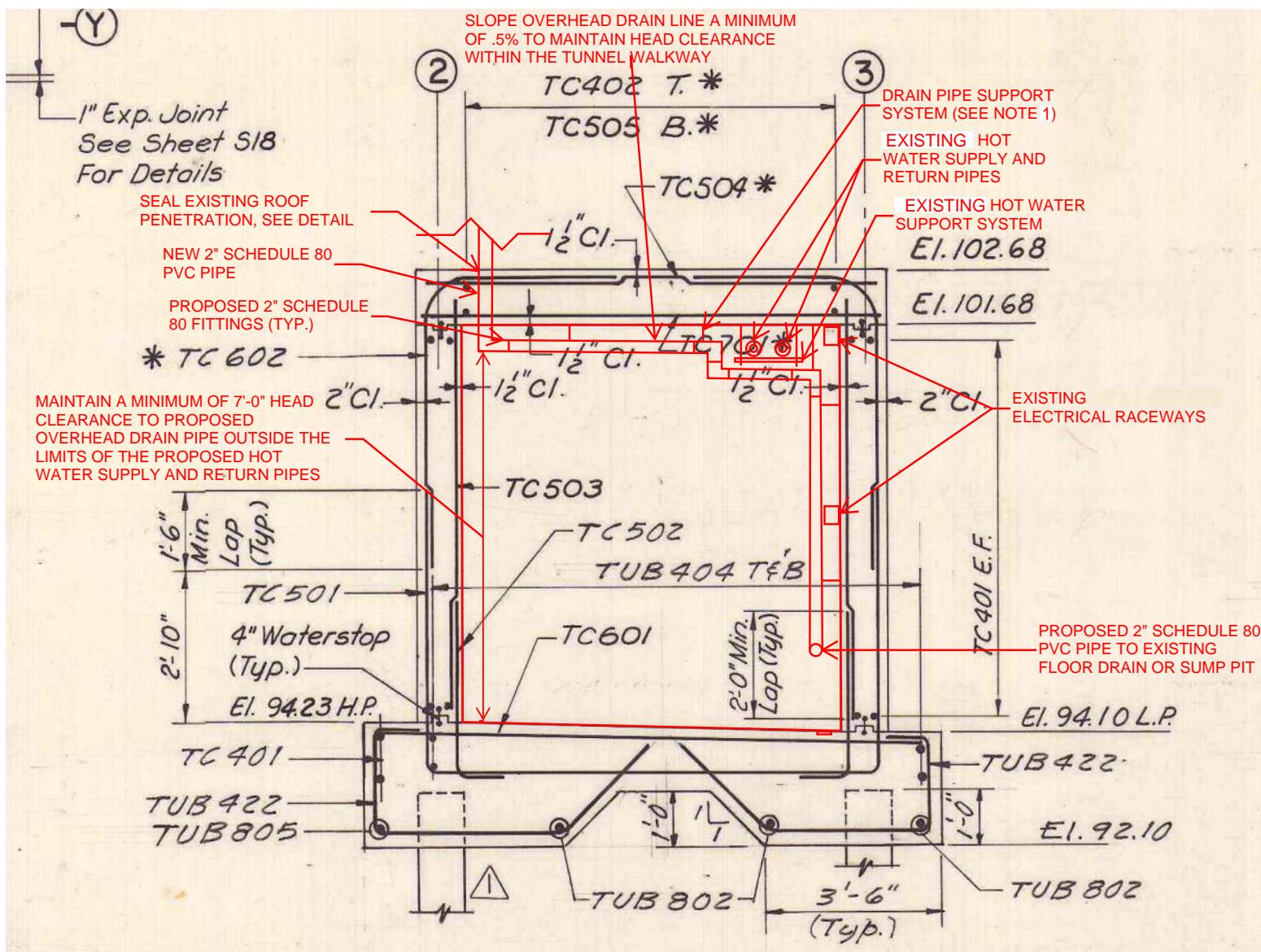
MTA PROJECT MANAGER: KRISTI VAN OOVEN, P.E.

WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
CANOPY DRAIN MODIFICATION DETAILS III

SHEET NUMBER: S-08  
CONTRACT: 2026.22  
10 OF 19



NEW GLOUCESTER CANOPY DRAIN  
REPLACEMENT SECTION - CONFIGURATION 1



NEW GLOUCESTER CANOPY DRAIN  
REPLACEMENT SECTION - CONFIGURATION 2

NOTES:

1. SCHEDULE 80 PVC 2" DRAIN PIPE SHALL BE SUPPORTED BOTH HORIZONTALLY AND VERTICALLY USING GALVANIZED SPLIT RING HANGERS WITH MINIMUM 3/8" RODS FASTENED TO CONCRETE STRUCTURE, OR AS APPROVED BY THE RESIDENT. HANGERS SHALL BE SPACED NO FURTHER THAN 48" APART AND WITHIN 12" OF A CHANGE OF DIRECTION.

Scale:			Designed by:	
NOT TO SCALE			HNTB	
No.	Revision	By	Date	
CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				
		Designed	KJK	09/25
		Drawn	KJK	09/25
		By	Date	By
		BRG	09/25	TRC
		In Charge of		09/25

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THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OYEN, P.E.

WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
CANOPY DRAIN MODIFICATION DETAILS IV

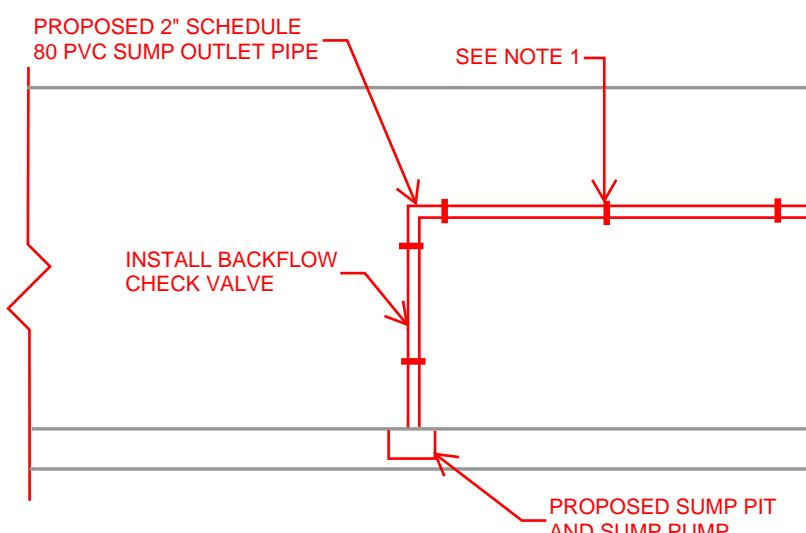
SHEET NUMBER: S-09

CONTRACT:2026.22

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EXISTING WEST GARDINER CANOPY DRAIN ELEVATION



PROPOSED SUMP PIT SCHEMATIC

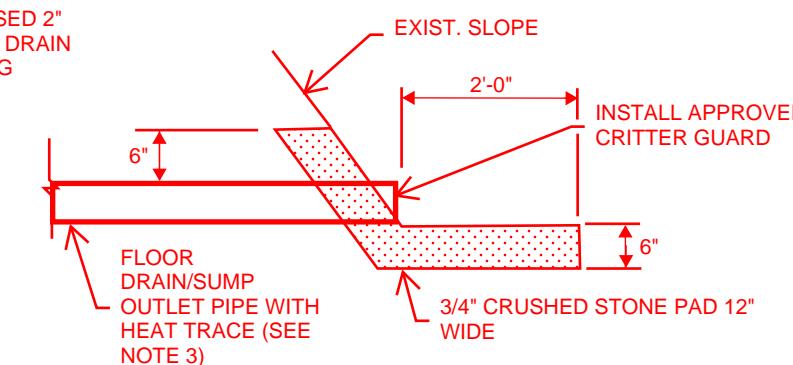
ELEVATION OF THE CORE TO BE COORDINATED WITH THE RESIDENT



IF THE CMU BLOCK WALL IS CONSTRUCTED WITH HOLLOW CORE BLOCKS, THE CONTRACTOR SHALL INSTALL A STEEL SLEEVE BETWEEN THE CMU BLOCK WALL AND THE LINK SEAL. THE STEEL SLEEVE SHALL BE SEALED TO THE CMU WALL PER MANUFACTURERS RECOMMENDATIONS AND AS DIRECTED BY THE RESIDENT

PROPOSED SUMP PIT AND SUMP PUMP. FINAL LOCATION SHALL BE FIELD DETERMINED BY THE RESIDENT AND MAINE TURNPIKE AUTHORITY, SEE SCHEMATIC BELOW FOR MORE INFORMATION

PROPOSED SUMP PIT



OUTLET PIPE END TREATMENT

NOTES:

1. SCHEDULE 80 PVC 2" DRAIN PIPE SHALL BE SUPPORTED BOTH HORIZONTALLY AND VERTICALLY USING GALVANIZED SPLIT RING HANGERS WITH MINIMUM 3/8" RODS FASTENED TO CONCRETE STRUCTURE, OR AS APPROVED BY THE RESIDENT. HANGERS SHALL BE SPACED NO FURTHER THAN 48" APART AND WITHIN 12" OF A CHANGE OF DIRECTION.

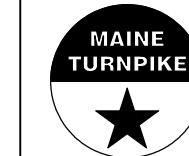
3. ALL REQUIRED 90 DEGREE BENDS SHALL BE LONG SWEEP. CONTRACTOR SHALL ELIMINATE BENDS IN PIPING TO THE EXTENT PRACTICAL.

2. SUMP PUMP - PROVIDE 20A, 120V CIRCUIT FROM PANEL HP2, PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED 18" AFF. COORDINATE FINAL RECEPTACLE LOCATION ON SITE PRIOR TO ROUGH IN.

3. HEAT TRACE SHALL BE COMMERCIAL GRADE, SHALL BE PLACED AT THE FLOOR DRAIN OUTLET PIPE AND INCLUDED IN THE SYSTEM DESIGN (TO INCLUDE MATERIALS TO BE USED) SUBMITTED FOR REVIEW AND APPROVAL.

Scale: NOT TO SCALE				Designed by:			
<b>HNTB</b>							
CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.							
Designed By Date KJK 09/25 Drawn By Date KJK 09/25				Checked By Date BRG 09/25 In Charge of TRC 09/25			
No.	Revision	By	Date				

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MTA PROJECT MANAGER: KRISTI VAN OOVEN, P.E.

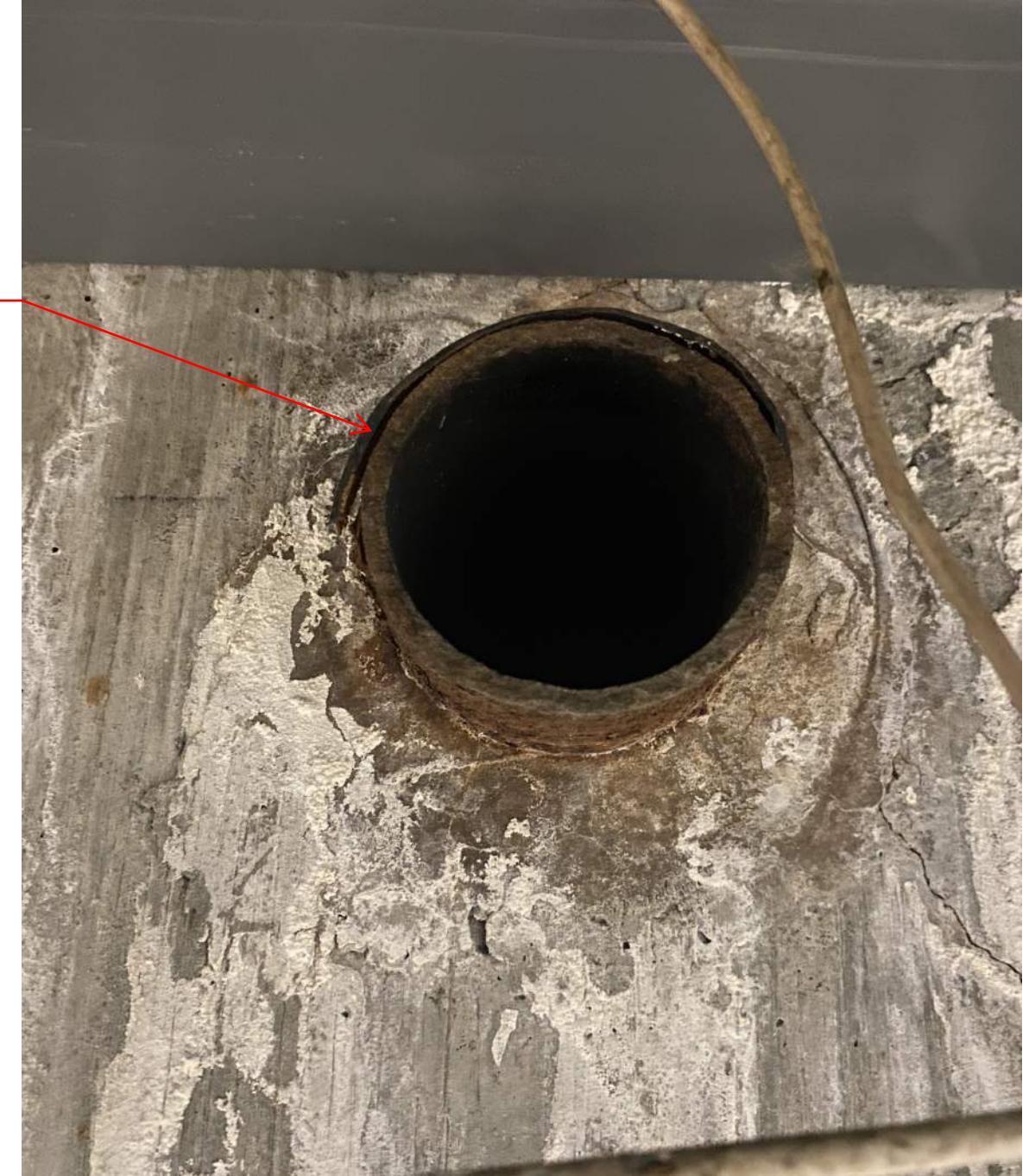
WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
CANOPY DRAIN MODIFICATION DETAILS V

SHEET NUMBER: S-10  
CONTRACT: 2026.22  
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CAP AND SEAL ALL EXISTING TUNNEL SIDE WALL PENETRATIONS FROM THE ORIGINAL PLAZA THAT ARE NOT IN USE WITH END OF PIPE PLUG WITH WING NUT AT THE DIRECTION OF THE RESIDENT

ALL REMAINING DRAIN PIPES  
FROM THE ORIGINAL PLAZA  
THAT ARE NOT IN USE SHALL  
BE REMOVED AT THE  
DIRECTION OF THE  
RESIDENT, LOCATION IS  
APPROXIMATELY  
MID-TUNNEL



## MISCELLANEOUS DRAINAGE DETAILS

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No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.					
				By	Date	By	Date		
				Designed	KJK	09/25	Checked	BRG	09/25
				Drawn	KJK	09/25	In Charge of	TRC	09/25

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## THE GOLD STAR MEMORIAL HIGHWAY

# WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS

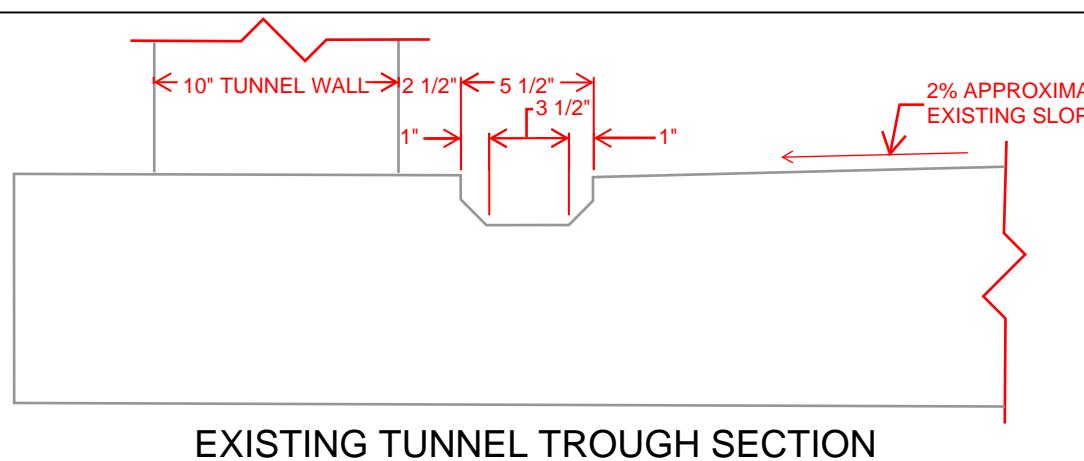
## CANOPY DRAIN MODIFICATION DETAILS VI

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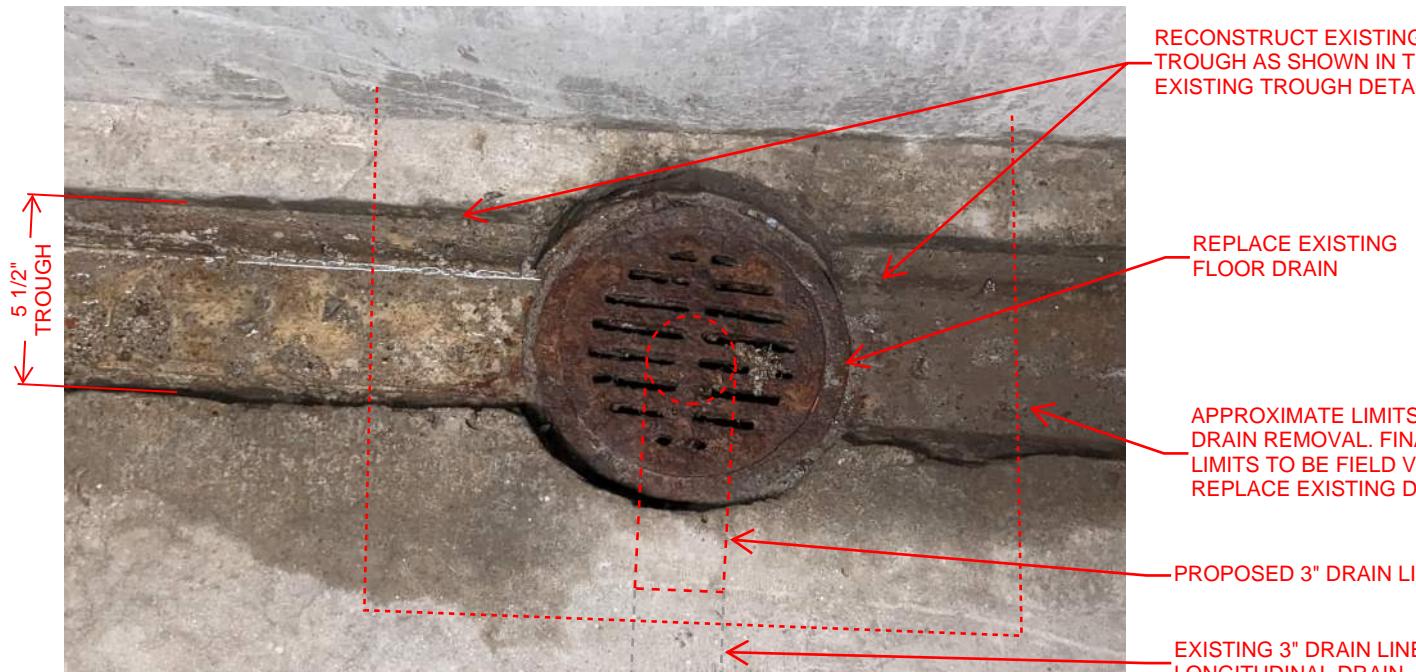
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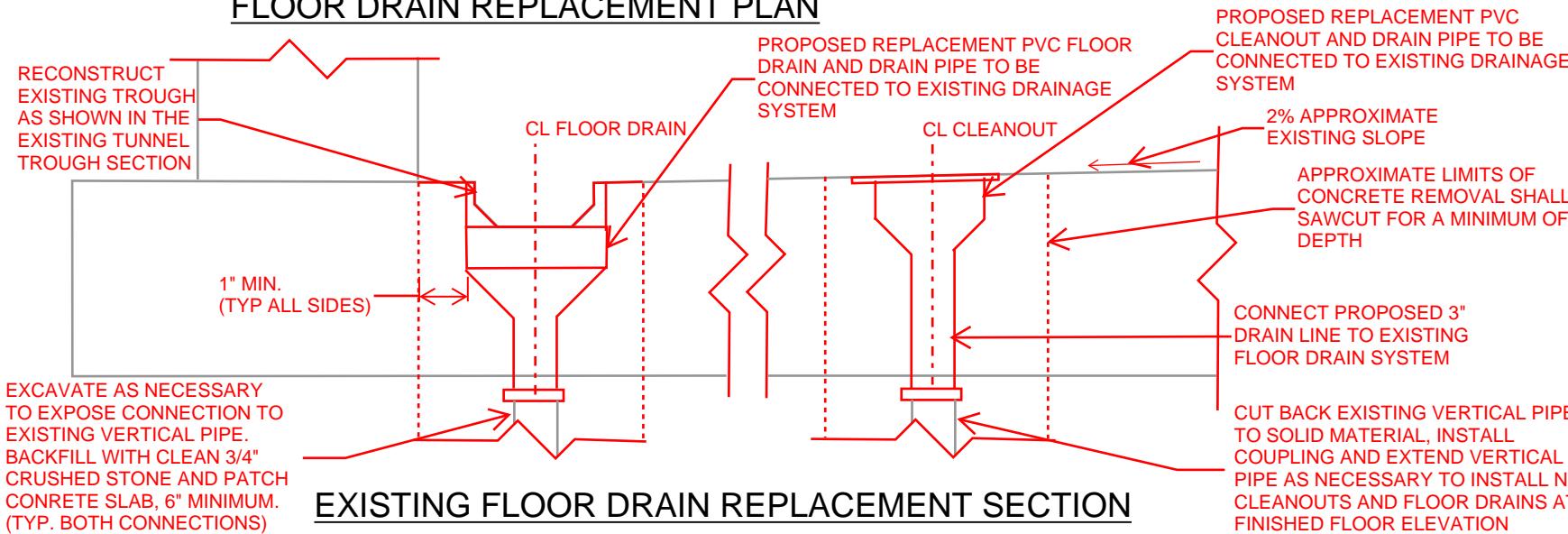
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EXISTING TUNNEL TROUGH SECTION



FLOOR DRAIN REPLACEMENT PLAN



EXISTING FLOOR DRAIN REPLACEMENT SECTION



CLEANOUT REPLACEMENT PLAN



APPROXIMATE LIMITS OF FLOOR DRAIN REMOVAL. FINAL REMOVAL LIMITS TO BE FIELD VERIFIED TO REPLACE EXISTING DRAIN LINES AND SHALL ENCOMPASS ALL AREAS OF SPALLED AND DELAMINATED CONCRETE

FLOOR DRAIN CONNECTION TO EXISTING 3" DRAIN PIPE. THE DIMENSIONS OF THE EXSITING DRAIN PIPE SHALL BE FIELD VERIFIED

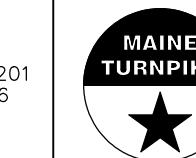
NOTES:

- PRIOR TO REPLACEMENT OF THE FLOOR DRAINS AND CLEANOUTS, ALL PIPES SHALL BE CLEANED AND DESCALED WITH CHAIN CLEANING THEN FLUSHED TO REMOVE ANY LOOSE DEBRIS. PIPES SHALL THEN BE SEALED WITH 2 COATS OF PICOTE XPRESS EPOXY COATING SYSTEM OR APPROVED EQUAL.

EXISTING FLOOR DRAIN DETAIL

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No.	Revision	By	Date	Designed	By	Date	Drawn
				KJK	09/25	Checked	BRG

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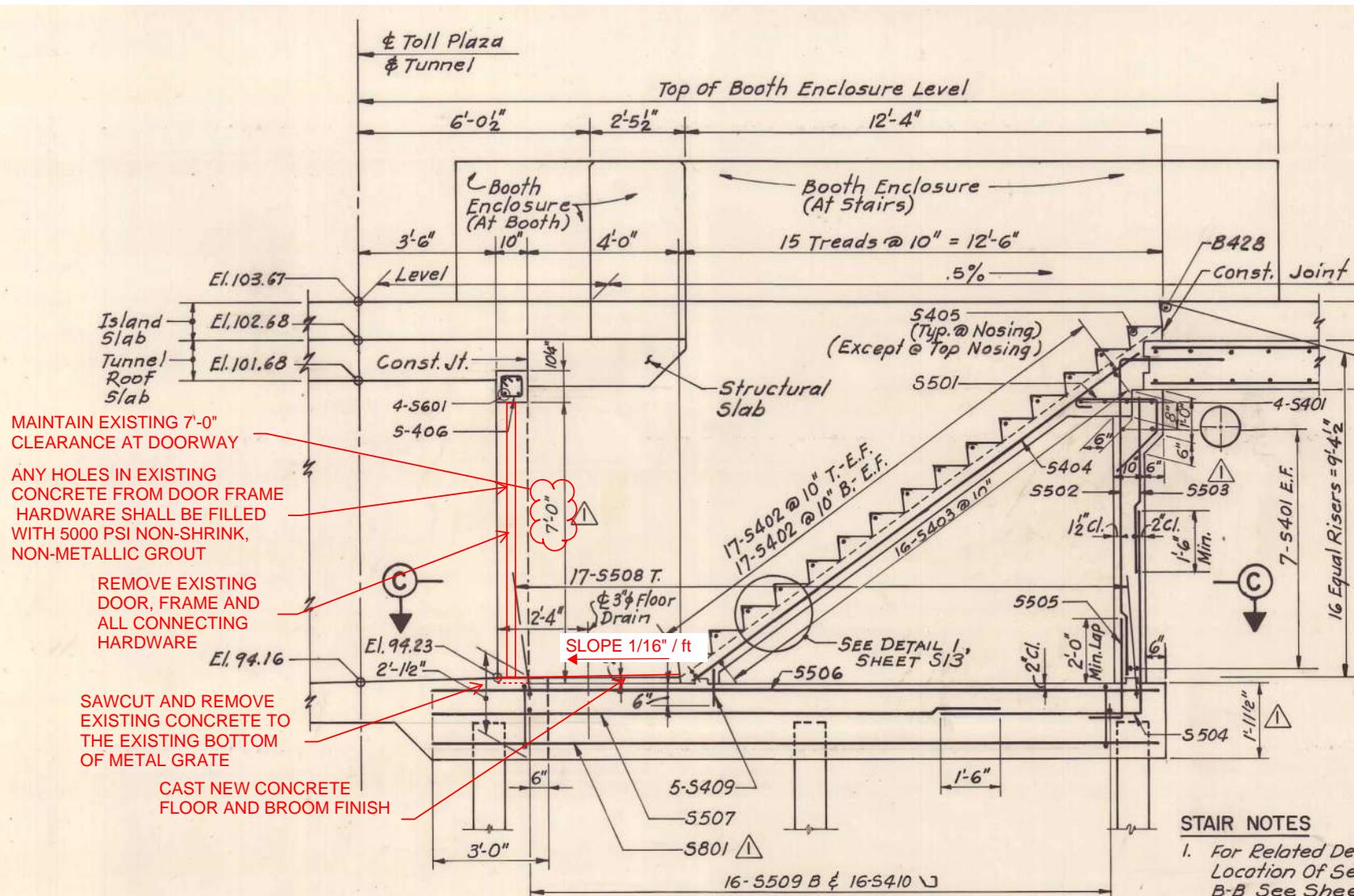


THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OOVEN, P.E.

WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
FLOOR DRAIN & CLEAN OUT  
REPLACEMENT DETAILS

SHEET NUMBER: S-12  
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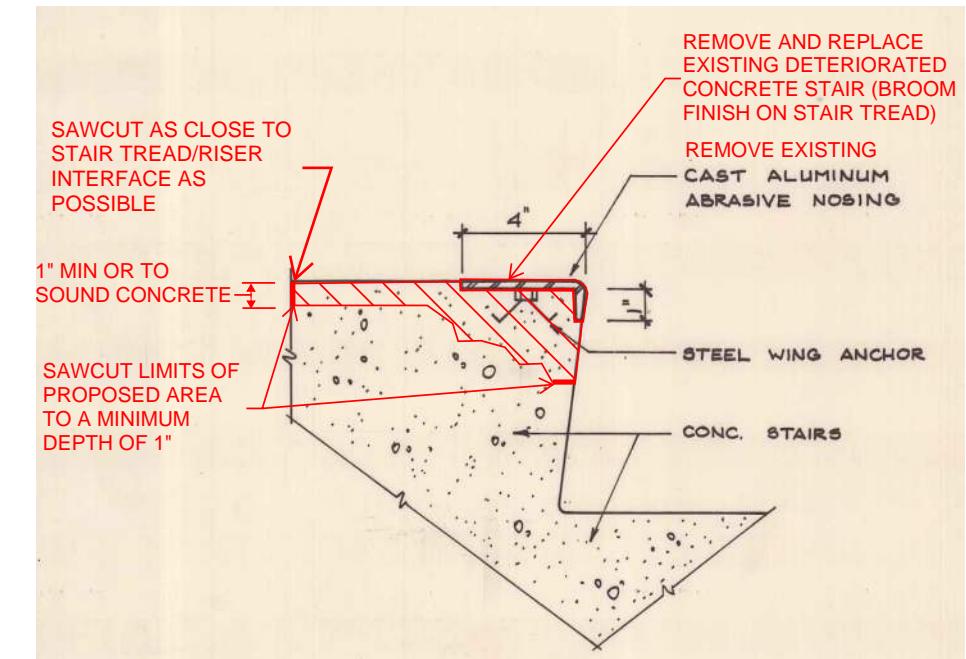


### WEST GARDINER STAIRWELL LANDING SECTION

(SEE WEST GARDINER STAIRWELL LANDING PHOTOS ON SHEET S-14 FOR ADDITIONAL DETAILS)

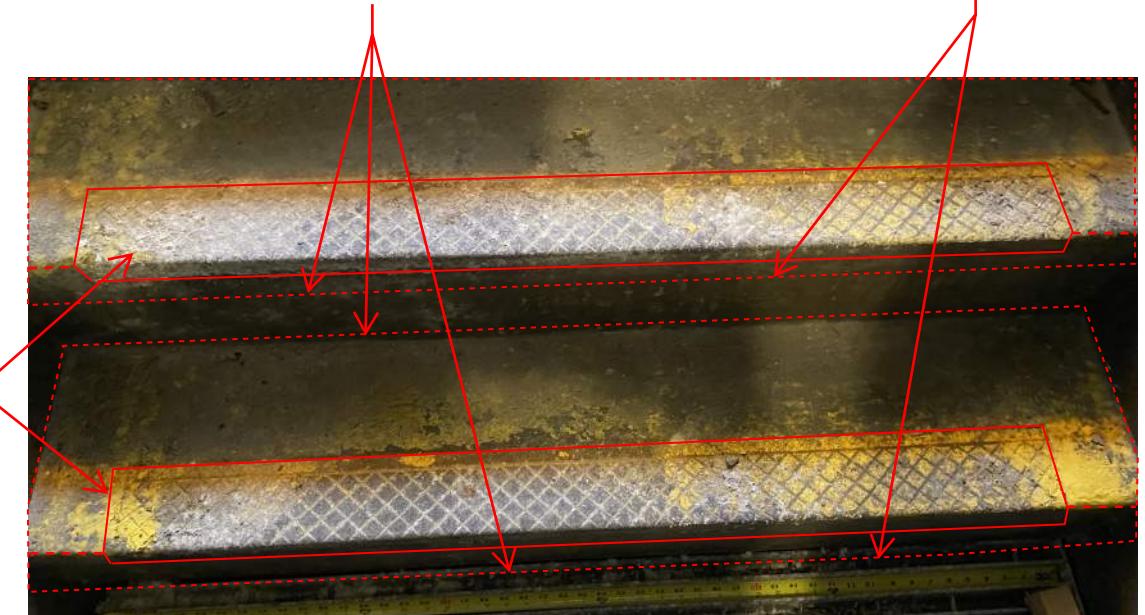
#### NOTE:

1. STAIRWELL NOSING REPAIRS ARE REQUIRED ONLY AT THE STAIRWELLS TO REMAIN OPEN. CAPPED STAIRWELLS NEED NOT BE REPAIRED.
2. STAIRWELL LANDING SLOPE REPAIRS ARE REQUIRED AT ALL STAIR LOCATIONS, BOTH CAPPED AND ENCLOSURE ENTRANCE, EXCEPT AS DESCRIBED IN NOTE 1 ON SHEET S-15.



APPROXIMATE CONCRETE REMOVAL AREA. FINAL REMOVAL AND REPAIR AREAS SHALL BE DETERMINED BY THE RESIDENT AND SHALL INCLUDE ALL AREAS OF CONCRETE DETERIORATION, SPALLING AND DELAMINATION.

SAWCUT LIMITS OF PROPOSED AREA TO A MINIMUM DEPTH OF 1"



### STAIRWELL NOSING REPAIR ELEVATION

Scale:  
NOT TO SCALE

Designed by:

**HNTB**

CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.

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THE GOLD STAR  
MEMORIAL HIGHWAY

WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
STAIR REPAIR DETAILS I

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ANY HOLES IN EXISTING CONCRETE FROM DOOR FRAME HARDWARE SHALL BE FILLED WITH 5000 PSI NON-SHRINK, NON-METAL GROUT

REMOVE EXISTING DOOR,  
FRAME AND ALL CONNECT  
HARDWARE

## REMOVE EXISTING DEBRIS FROM CONCRETE SURFACE

EXISTING 3" DIA. FLOOR  
DRAIN

REMOVE FLOOR DRA  
GRATE AND CAP  
FLOOR DRAIN TO  
PREVENT CONCRETE  
FROM ENTERING THE  
PIPE

ROUGHEN CONCRETE  
SURFACE TO 1/4"  
AMPLITUDE AND CLEAN  
THE SURFACE TO REMOVE  
ANY DEBRIS PRIOR TO  
CONCRETE PLACEMENT

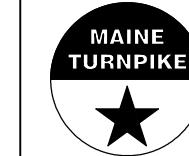


# WEST GARDINER STAIRWELL LANDING REPAIR PLAN

## WEST GARDINER STAIRWELL LANDING REPAIR ELEVATION

Scale:  <b>NOT TO SCALE</b>				Designed by:  <b>HNTB</b>					
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.					
				Designed	KJK	09/25	Checked	BRG	09/25
				Drawn	KJK	09/25	In Charge of	TRC	09/25

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## THE GOLD STAR MEMORIAL HIGHWAY

# WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS

## STAIR REPAIR DETAILS II

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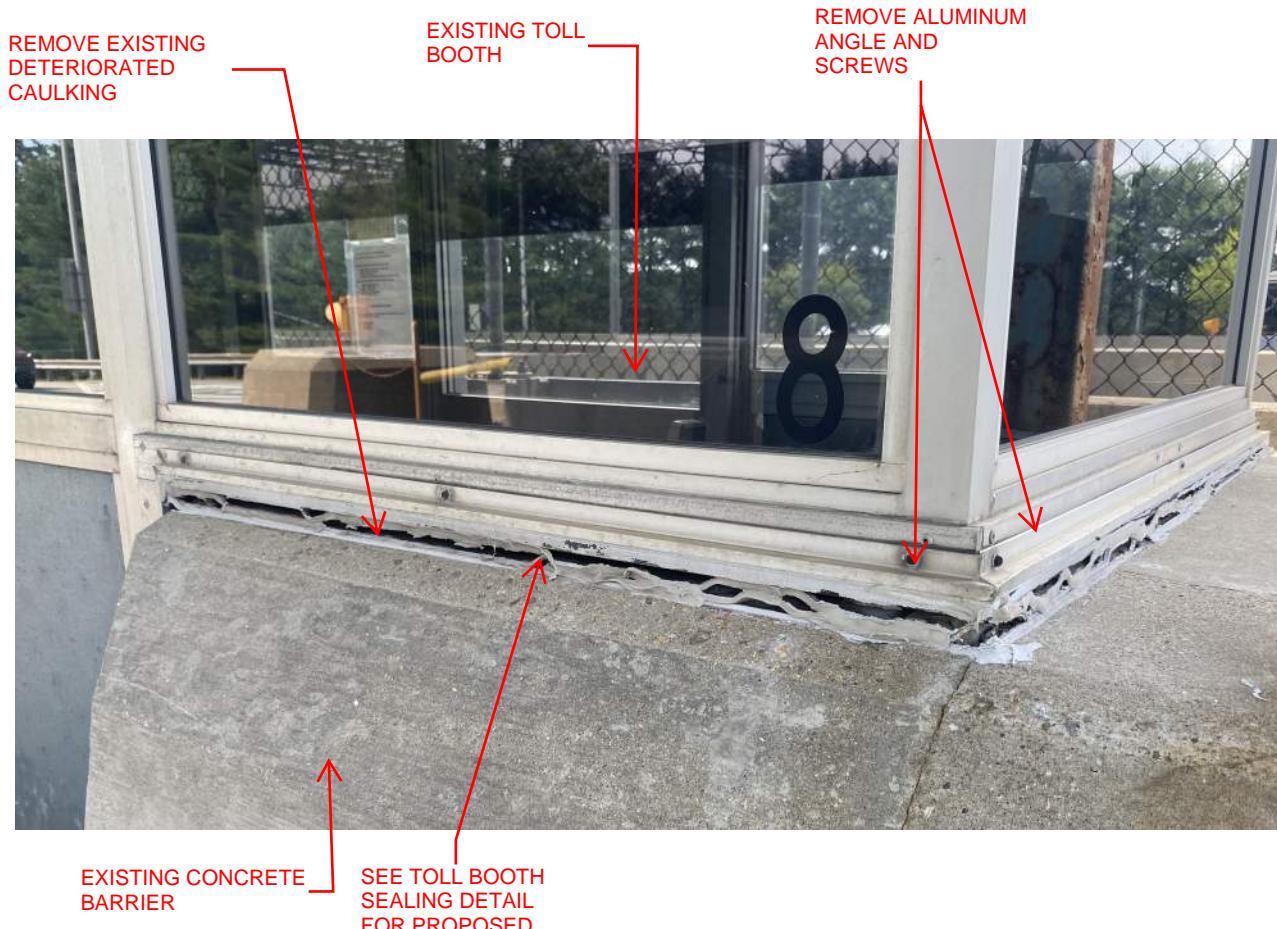


NEW GLOUCESTER STAIRWELL LANDING  
REPAIR ELEVATION

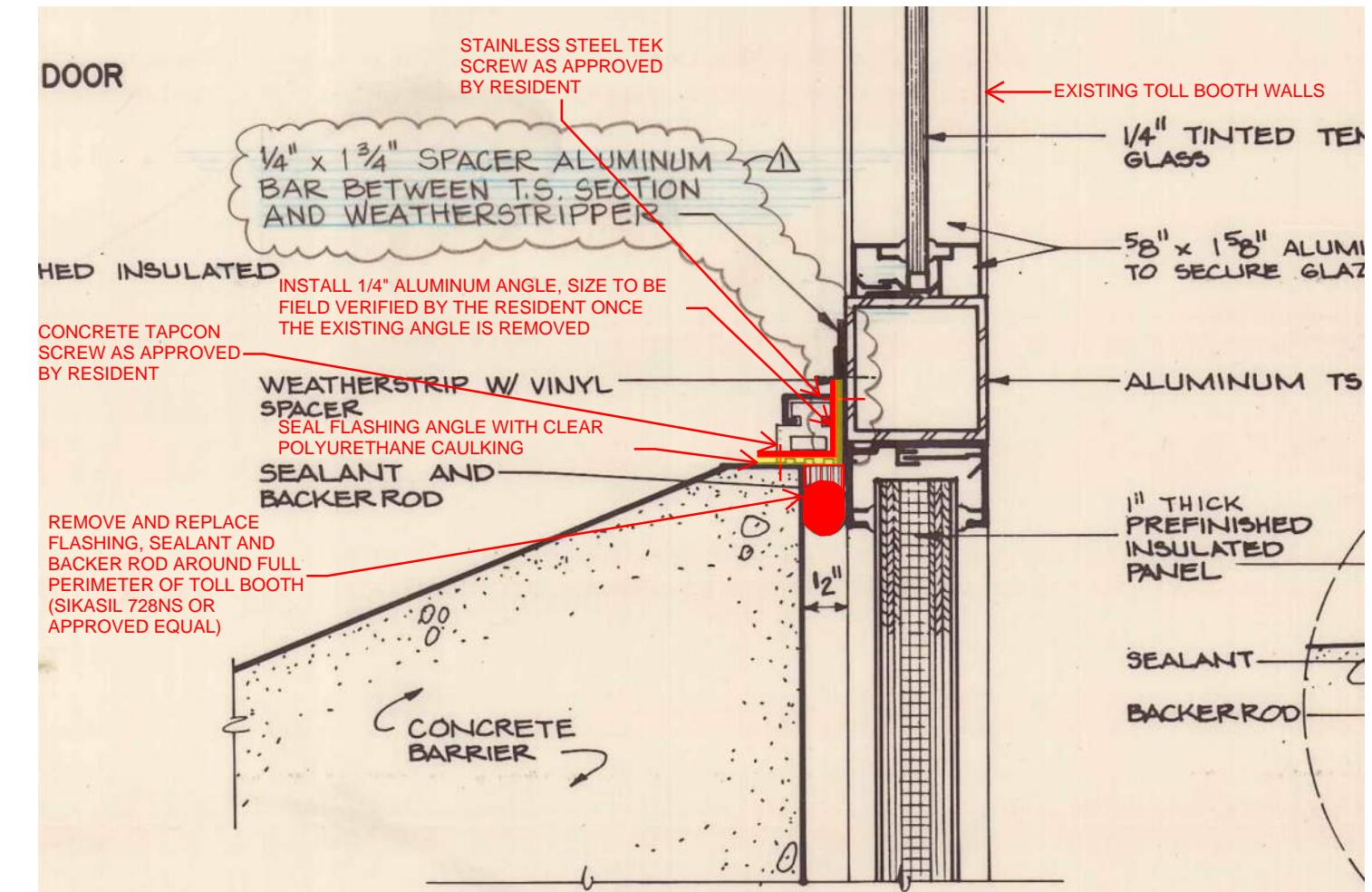
NOTES:

1. THE EXISTING LANDINGS AT THE NEW GLOUCESTER TOLL PLAZA HAVE BEEN PREVIOUSLY REPAIRED TO REMOVE THE EXISTING GRATING AND PLACE A CONCRETE SLAB. THE EXISTING 3" DIA. FLOOR DRAIN AT THE STAIR LANDING SHALL BE CLEANED AND DESCALLED WITH CHAIN CLEANING THEN FLUSHED TO REMOVE ANY LOOSE DEBRIS. IF THE RESIDENT DETERMINES THAT THERE IS ADEQUATE FLOW AT THIS FLOOR DRAIN, THE PIPES SHALL THEN BE SEALED WITH 2 COATS OF PICOTE XPRESS EPOXY COATING SYSTEM OR APPROVED EQUAL. IF IT IS DETERMINED BY THE RESIDENT THAT THERE IS INADEQUATE OR NO DRAINAGE THROUGH THIS PIPE, THEN THE EXISTING FLOOR DRAIN AND CONCRETE LANDING SLAB SHALL BE REMOVED AND REPAIRED AS SHOWN ON THE WEST GARDINER STAIRWELL LANDING DETAILS.

Scale:  <i>NOT TO SCALE</i>	Designed by:  <b>HNTB</b>	HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909	<b>MAINE TURNPIKE</b>  <b>THE GOLD STAR MEMORIAL HIGHWAY</b>  MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.	WEST GARDINER & NEW GLOUCESTER TOLL PLAZA TUNNEL REPAIRS  STAIR REPAIR DETAILS III  SHEET NUMBER: S-15  CONTRACT: 2026.22  17 OF 19
No.   Revision   By   Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.	Designed   KJK   09/25   Checked   BRG   09/25	Drawn   KJK   09/25   In Charge of   TRC   09/25	



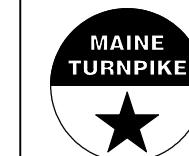
TOLL BOOTH SEALING ELEVATION



TOLL BOOTH SEALING DETAIL

Scale:  NOT TO SCALE				Designed by:
No.	Revision	By	Date	HNTB
				CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.
		By	Date	
		Designed	KJK	09/25
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			In Charge of	TRC
				09/25

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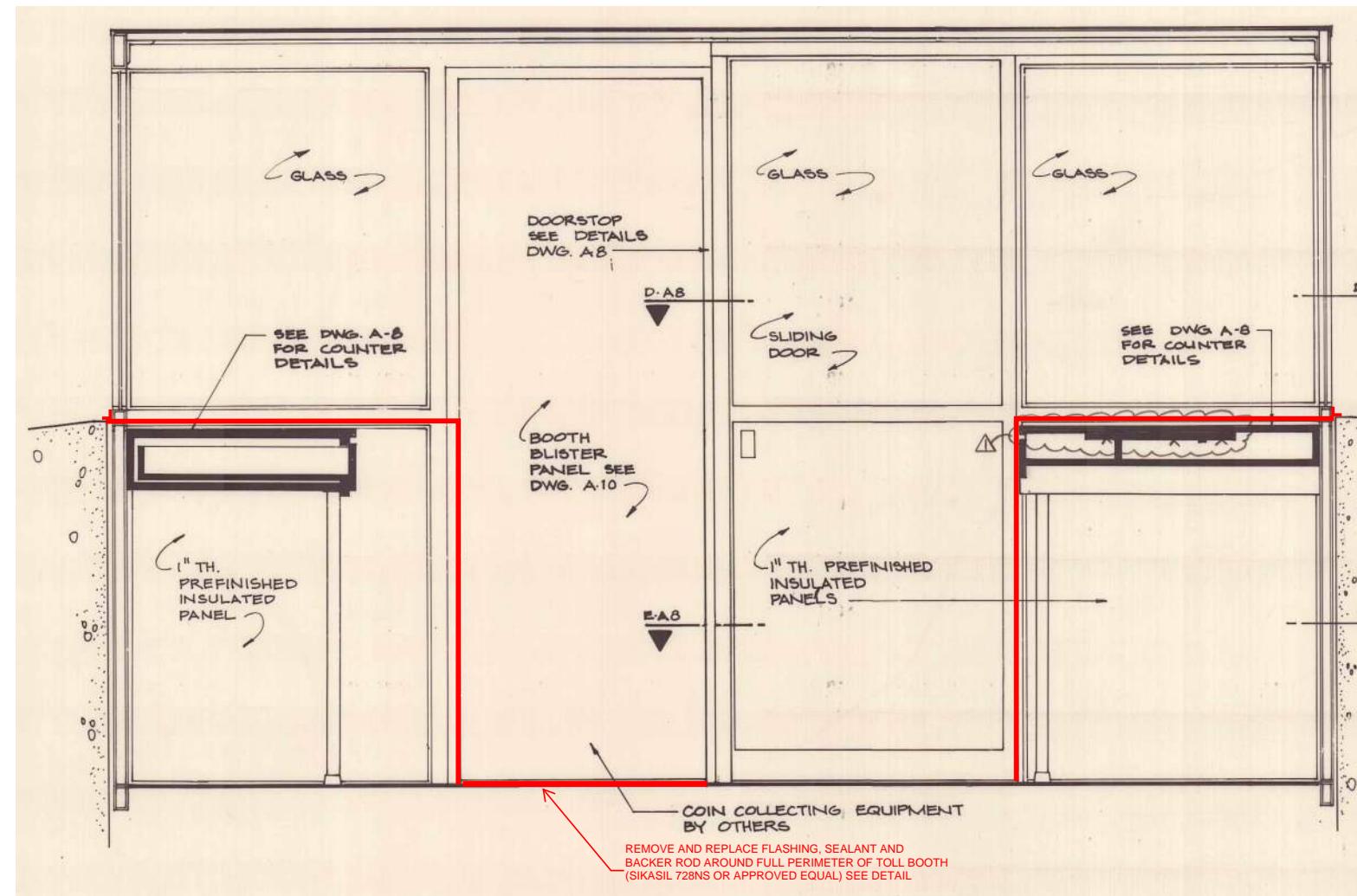


THE GOLD STAR  
MEMORIAL HIGHWAY

MTA PROJECT MANAGER: KRISTI VAN OOVEN, P.E.

WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
TOLL BOOTH SEALING DETAILS I

SHEET NUMBER: S-16  
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TOLLBOOTH SEALING ELEVATION

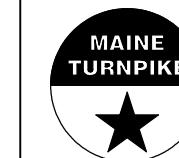
Scale:  
NOT TO SCALE

No.	Revision	By	Date
CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.			
		By	Date
	Designed	KJK	09/25

Designed by:

**HNTB**

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WEST GARDINER & NEW GLOUCESTER  
TOLL PLAZA TUNNEL REPAIRS  
TOLL BOOTH SEALING DETAILS II

SHEET NUMBER: S-17  
CONTRACT: 2026.22  
19 OF 19