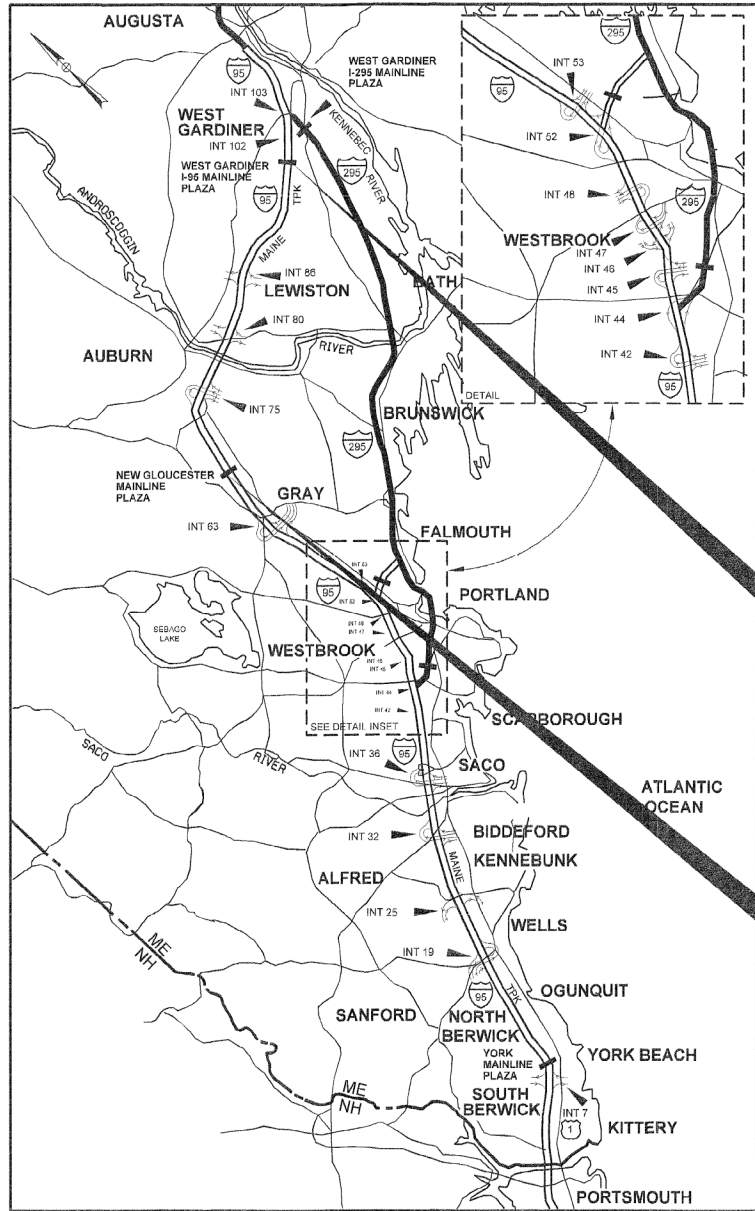


Date: 9/30/2025

Filename: 001_Title Sheet.dgn



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 2025.15
WEST GARDINER
TUNNEL REPAIR
MILE MARKER 102.0

CONTRACT 2025.15
NEW GLOUCESTER
TUNNEL REPAIR
MILE MARKER 67.0

CONTRACT 2025.15 TOLL PLAZA TUNNEL REPAIR NEW GLOUCESTER (MM 67.0) WEST GARDINER (MM 102.0)

INDEX OF SHEETS

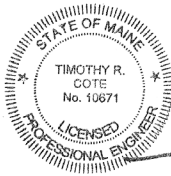
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES
3	GENERAL NOTES
4-21	STRUCTURAL REPAIRS
22-25	EXIST. ELECTRICAL REPLACEMENT
26-32	HVAC AND LIFE SAFETY - ELECTRICAL
33-41	HVAC AND LIFE SAFETY - MECHANICAL

APPROVED:
MAINE TURNPIKE AUTHORITY

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

10/3/25
DATE

HNTB



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

10/3/2025
DATE

CONTRACT 2025.15


Date:9/30/2025

Filename: 002_Estimated Quantities.dgn

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 (600 LF)	LS	1
527.341	Work Zone Crash Cushions - TL-3	UNIT	1
631.53	Electrician	HR	80
631.54	Electrician's Apprentice	HR	80
652.361	Maintenance of Traffic Control Devices	LS	1
655.1004	#4/0 AWG Wire	LF	130
655.101	#6 AWG Wire	LF	700
655.103	#10 AWG Wire	LF	200
655.12	#12 AWG Wire	LF	1880
655.141	4pr/24 (Category 5e) Cable	LF	1700
655.2021	1" Sch 80 PVC Conduit	LF	150
655.203	1 1/2" Sch 80 PVC Conduit	LF	140
655.2031	2" Sch 80 PVC Conduit	LF	90
655.2032	2 1/2" Sch 80 PVC Conduit	LF	230
655.2101	1-1/2" Liquid Tight Metallic Flexible Conduit	LF	300
655.2102	2" Liquid Tight Metallic Flexible Conduit	LF	250
655.2103	1" Liquid Tight Metallic Flexible Conduit	LF	100
655.225	Type F Pull Box	EA	1
655.227	Type H Pull Box	EA	3
655.228	Type I Pull Box	EA	1
655.431	60 AMP Panel Board and Cabinet	EA	4
655.432	100 AMP Panel Board and Cabinet	EA	6
655.433	225 AMP Panel Board and Cabinet	EA	1
655.501	1" PVC Conduit Condulets	EA	2
655.502	1 1/2" PVC Conduit Condulets	EA	2
655.503	2" PVC Conduit Condulets	EA	2
655.5031	2 1/2" PVC Conduit Condulets	EA	2
655.63	4"x4" Plastic NEMA 4R Raceway	LF	55
655.64	6"x6" Plastic NEMA 4R Raceway	LF	715
655.82	Duplex Receptacle	EA	1
655.84	Quadplex Receptacle	EA	3
659.10	Mobilization	LS	1
800.31	Stairwell Enclosure	LS	1
800.32	Tollbooth Canopy Drainage Modifications	LS	1
800.33	Heating, Ventilation, and Dehumidification	LS	1

Scale:			
No.	Revision	By	Date

Designed by:



CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.

	By	Date		By	Date
Designed	WWL	09/25	Checked	DAM	09/25
Drawn	BRG	09/25	In Charge of	TRC	09/25

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South Portland, ME 04106
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THE GOLD STAR
MEMORIAL HIGHWAY

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

WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS

QUANTITIES

SHEET NUMBER: EQ-01

CONTRACT:2025.15

2 OF 41

Date:9/30/2025

GENERAL NOTES

1. 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.
2. DIMENSIONS SHOWN ON THE PLANS ARE BASED ON THE AVAILABLE HISTORICAL PLANS, ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACOR.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL PRIOR TO STARTING WORK.
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.
5. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE AND IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATIONS.
6. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 192.6.65D-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
7. FILL/BORROW SHALL BE COMPACTED 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 COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, EXCEPT AS AMENDED BY SPECIAL PROVISION 203.
8. MATERIALS AND EQUIPMENT SHALL NOT BE STORED UNDER OR IN CLOSE PROXIMITY TO HIGHWAY STRUCTURES OR LOOPS UNLESS THE CONTRACTOR RECEIVES WRITTEN PERMISSION FROM THE AUTHORITY.
9. COPIES OF THE AS-BUILT PLANS ARE POSTED ON THE MAINE TURNPIKE AUTHORITY WEBSITE AT WWW.MAINETORNPIKE.COM/PROJECTS/CONSTRUCTION-CONTRACTS. THE COMPLETENESS AND ACCURACY OF THESE PLANS IS NOT GUARANTEED.
10. CHAMFER ALL EXPOSED NEW CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

UTILITY NOTES

1. 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.
2. THE CONTRACTOR SHALL NOTIFY ALL NON-MEMBERS THROUGH 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
3. 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.
4. 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

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

EROSION CONTROL

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

TOLL NOTES

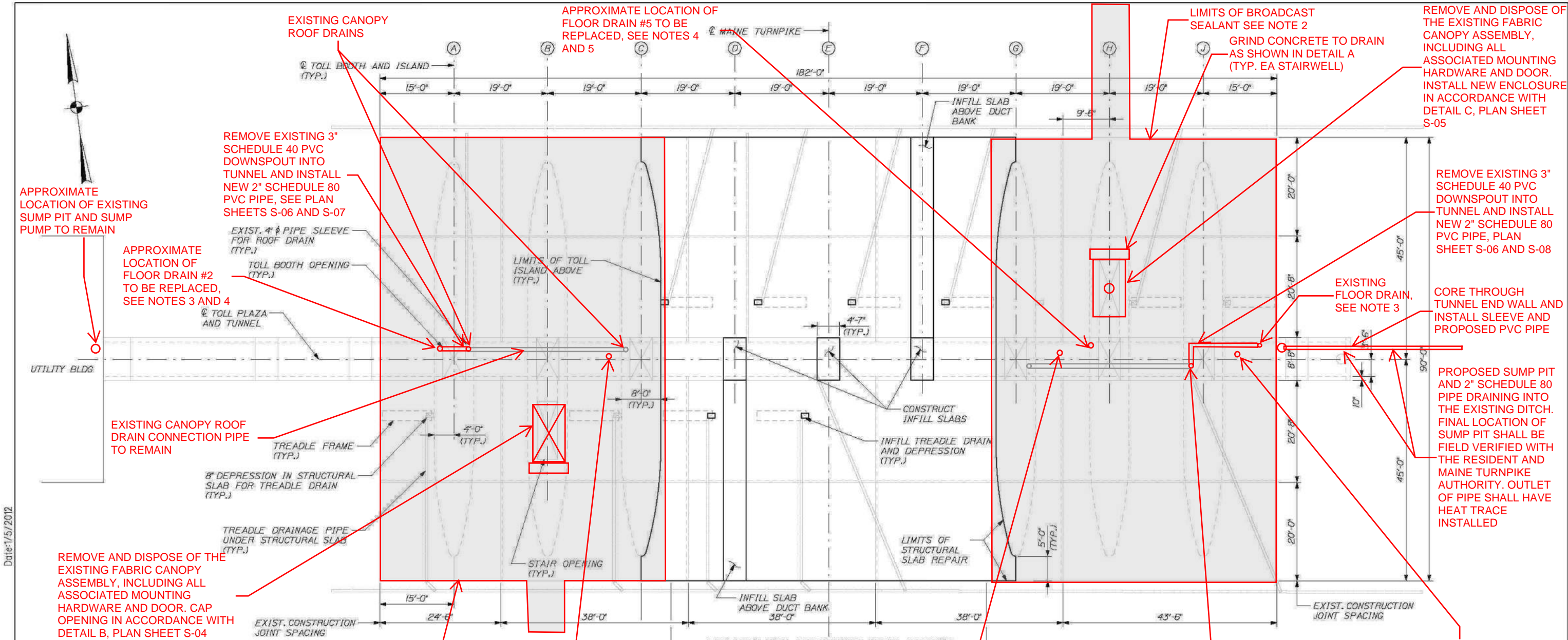
1. DRAWINGS ARE SCHEMATIC AND PROVIDED FOR GENERAL REFERENCE ONLY. THE PLANS SHOULD NOT BE SCALED FOR THE PURPOSED OF DETERMINING DIMENSIONS OR QUANTITIES.
2. VERIFY AND REMOVE ALL ABANDONED OR UNUSED ELECTRICAL WIRING AND COMMUNICATION CABLING. REMOVAL OF ABANDONED ITEMS WILL BE PAID ON A TIME-AND-MATERIALS BASIS UNDER ITEMS 631.53 ELECTRICIAN AND 631.54 ELECTRICIAN APPRENTICE. COORDINATE WITH THE RESIDENT PRIOR TO REMOVING ABANDONED ITEMS.
3. REMOVE IN THEIR ENTIRETY ALL EXISTING CONDUITS, WIREWAYS, AND SIMILAR RACEWAYS THAT ARE IDENTIFIED FOR REPLACEMENT. CAP ANY UNUSED CONDUITS THAT CANNOT BE REMOVED, AND CAP ALL WIRE TROUGHS WHERE CONDUIT HAS BEEN REMOVED BUT THE TROUGH REMAINS. REMOVAL OF EXISTING CONDUITS, WIREWAYS, AND SIMILAR RACEWAYS IS INCIDENTAL TO THE INSTALLATION OF THE REPLACEMENT ITEM.
4. 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 TRANSORE.

LIST OF ABBREVIATIONS

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

Filename: 003_GeneralNotes.dgn

Scale:				Designed by:						<div><div>HNTB</div><div>HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909</div><div><div><div>MAINE TURNPIKE</div><div>★</div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div></div>				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS				GENERAL NOTES			
No.	Revision		By	Date																	
					CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.						SHEET NUMBER: GN-01										
						By	Date		By	Date											
					Designed	WLL	09/25	Checked	DAM	09/25											
					Drawn	BRG	09/25	In Charge of	TRC	09/25	CONTRACT: 2025.15										
MTA PROJECT MANAGER: KRISTI VAN OOVEN, P.E.															3 OF 41						



NOTES:

1. PROPOSED WORK ON THIS PLAN SHEET IS INDICATED IN RED, OVERLAID ON EXISTING LINework FROM THE 2011 TOLL PLAZA ORT CONVERSION PROJECT.
2. ALL HORIZONTAL CONCRETE SURFACES WITHIN THE LIMITS OF THE EXISTING CASH LANES, INCLUDING THE FULL EXTENT OF THE TOLL LANES AND ASSOCIATED ISLAND SLABS SHALL RECIEVE TWO COATS OF BROADCAST SEALANT IN ACCORDANCE WITH SPECIAL PROVISION 515.
3. THE PROPOSED DRAIN PIPES SHALL TERMINATE IN EXISTING FLOOR DRAINS. FINAL LOCATION OF DRAIN PIPE SHALL BE FIELD VERIFIED WITH THE RESIDENT AND THE MAINE TURNPIKE AUTHORITY.
4. ALL DRAINAGE MODIFICATIONS TO THE CANOPY ROOF DRAIN SYSTEM, INCLUDING REPLACEMENT OF THE EXISTING FLOOR DRAINS AND CLEANOUTS WITHIN THE TUNNEL AS CALLED OUT, WILL BE PAID FOR UNDER 800.32, TOLLBOOTH DRAINAGE MODIFICATIONS. SEE DETAILS ON PLANS SHEETS S-06 THROUGH S-12.
5. 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 COATSO F PICOTE XPRESS EPOXY COATING SYSTEM OR APPROVED EQUAL.
6. 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.

PLAN - TUNNEL REPAIRS

NTS

Scale:
NOT TO SCALE

No.	Revision	By	Date

Designed by:
HNTB

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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South Portland, ME 04106
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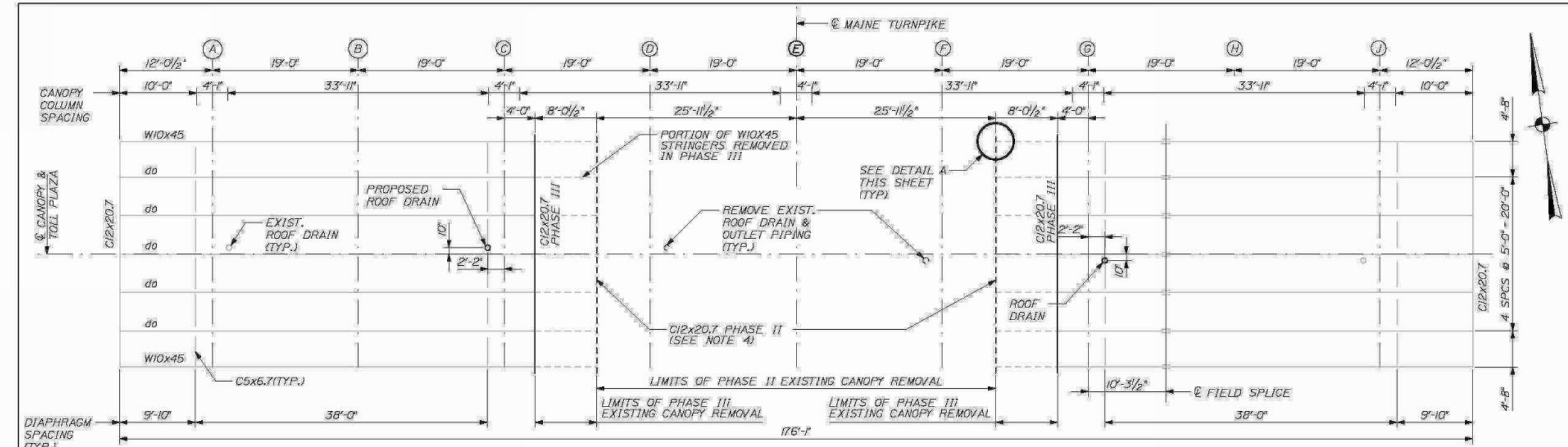
**THE GOLD STAR
MEMORIAL HIGHWAY**

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

WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS

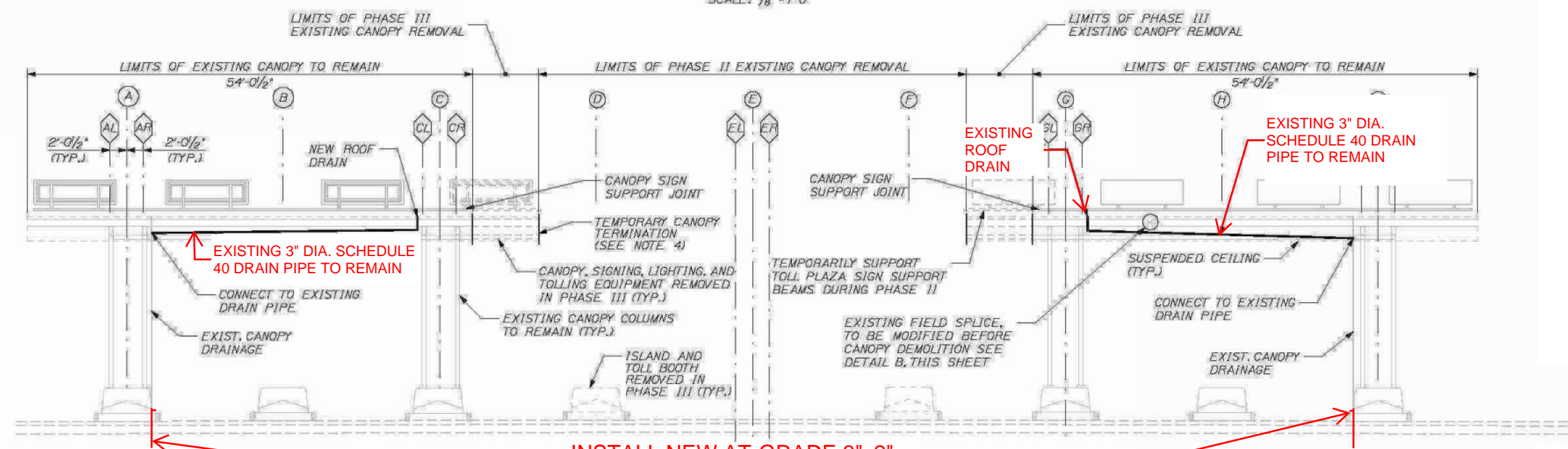
NEW GLOUCESTER TOLL TUNNEL

SHEET NUMBER: S-01
CONTRACT:2025.15
4 OF 41



PLAN - EXISTING TOLL PLAZA

SCALE: 1/8" = 1'-0"



INSTALL NEW AT-GRADE 3"x2" SCHEDULE 40 PVC REDUCER & T-FITTING, BOTH ENDS. SEE DETAIL D SHOWN ON PAGES S-06 AND S-07.

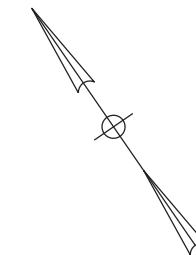
ELEVATION - PROPOSED TOLL PLAZA

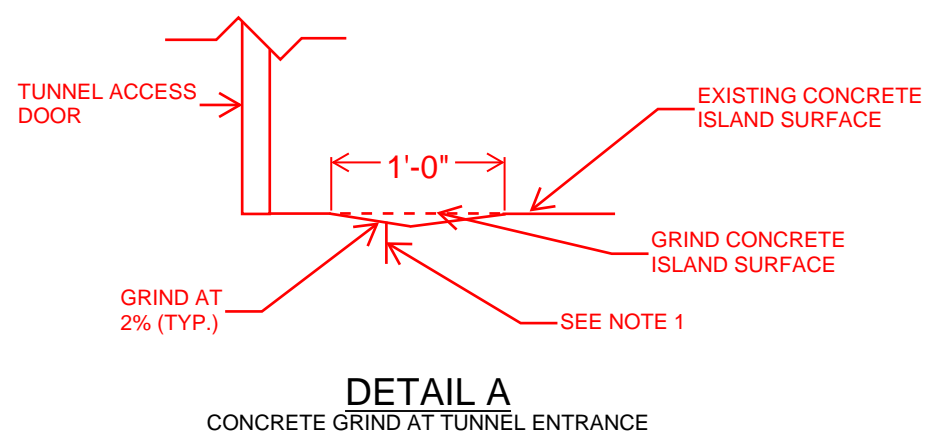
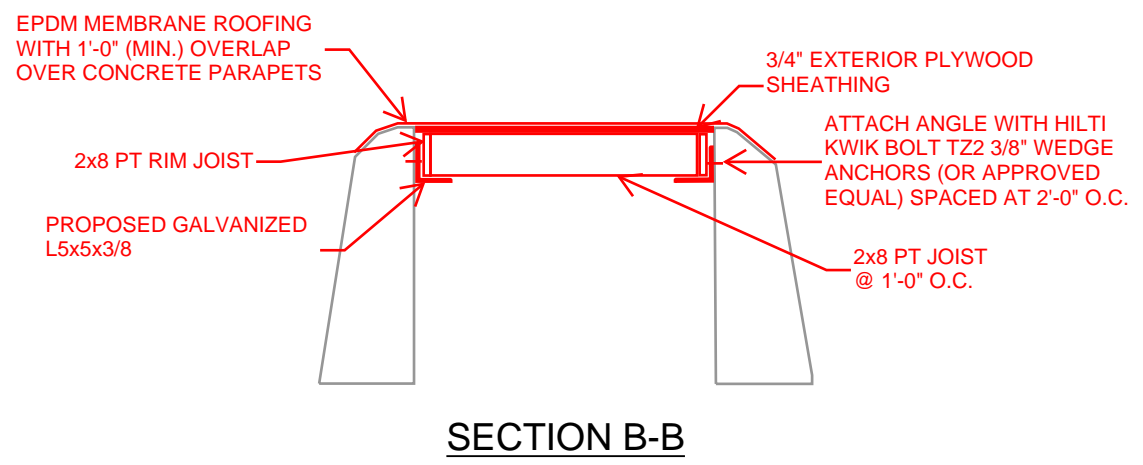
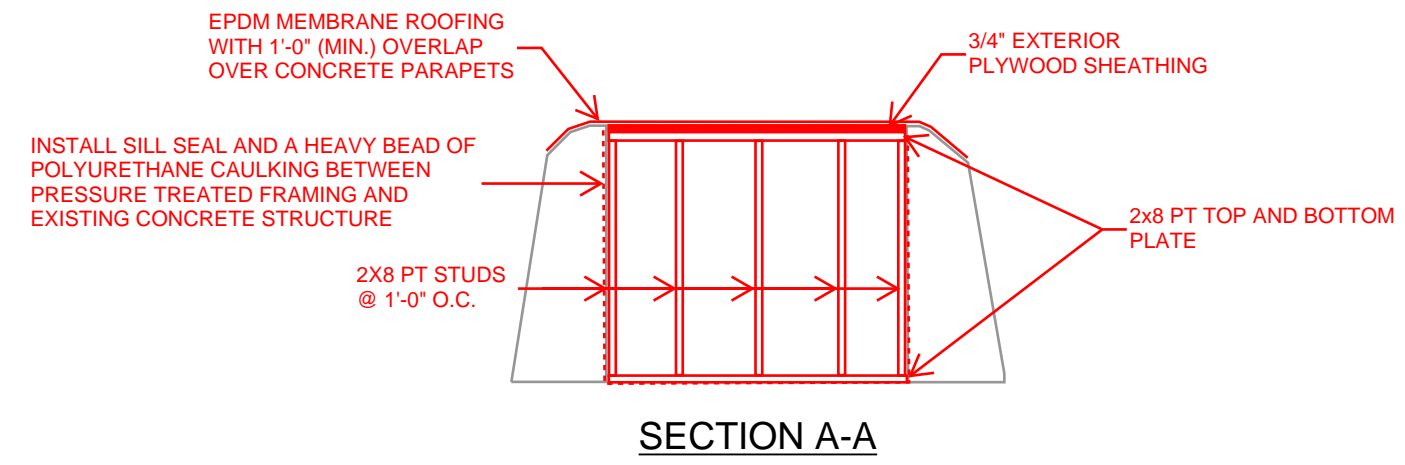
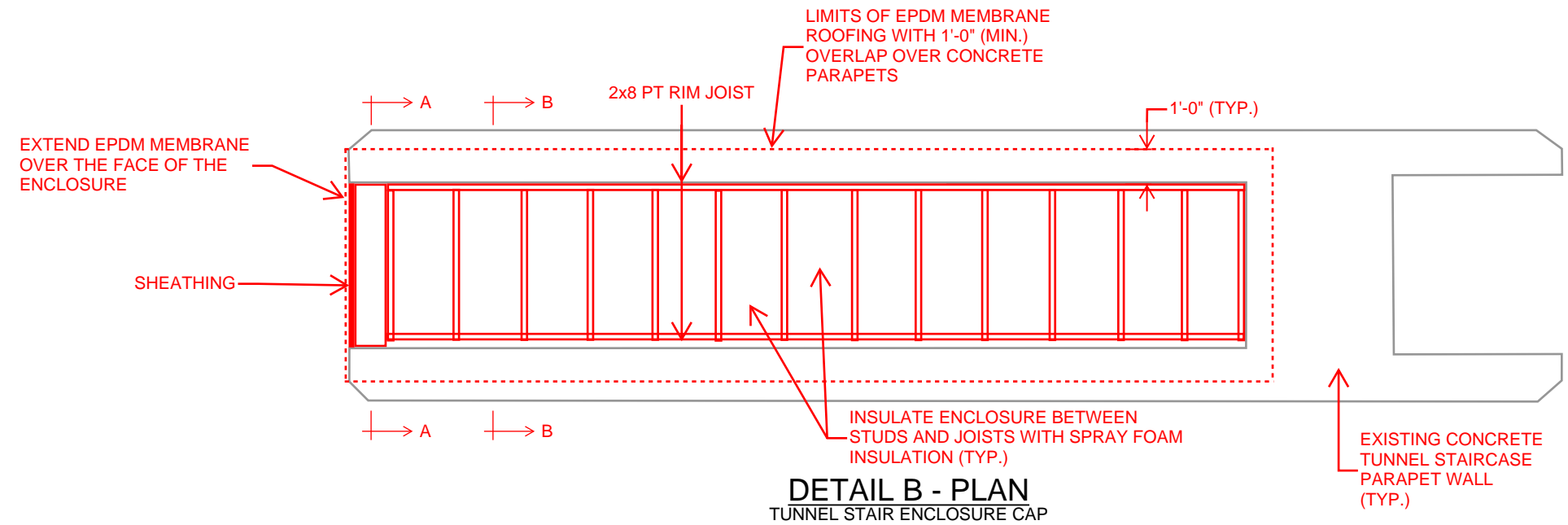
SCALE: 1/8" = 1'-0"

NOTES:

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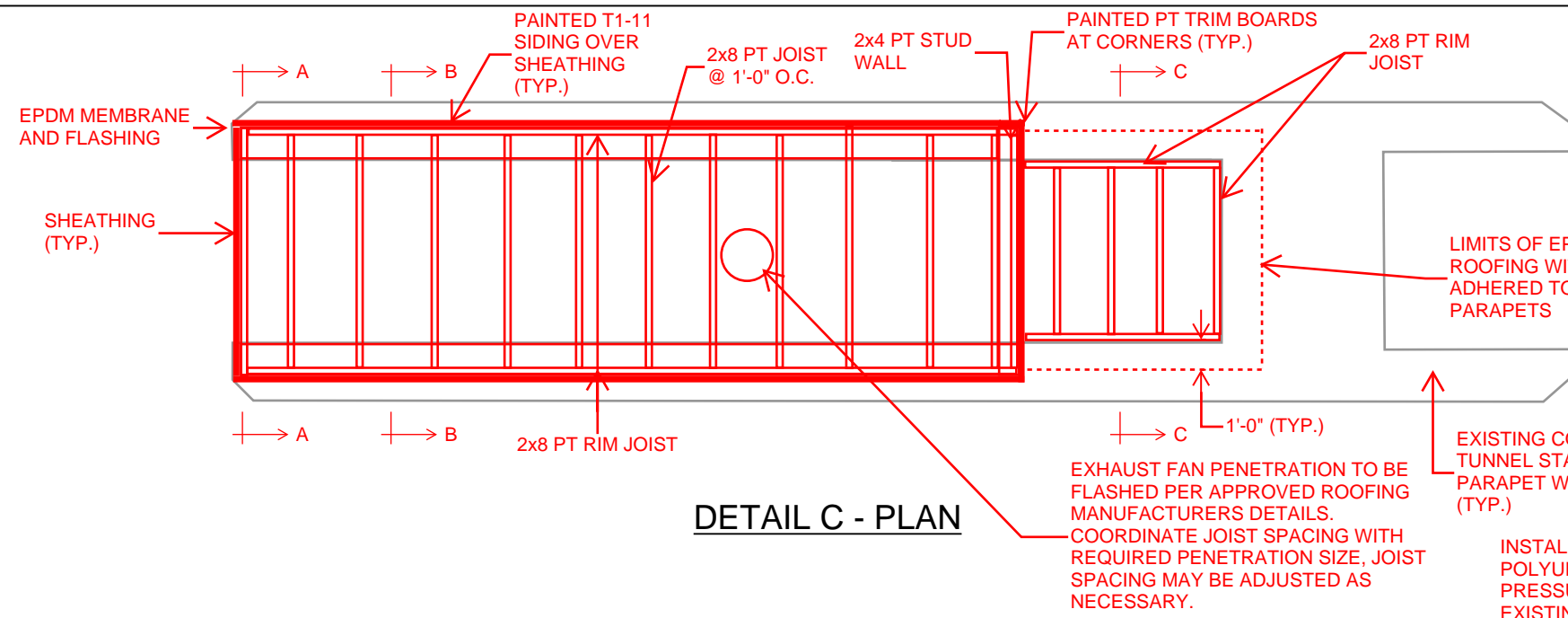
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No.	Revision	By	Date				
				CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.			
				By	Date	By	Date
				Designed	KJK 09/25	Checked	BRG 09/25
				Drawn	KJK 09/25	In Charge of	TRC 09/25
				THE GOLD STAR MEMORIAL HIGHWAY			
				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS NEW GLOUCESTER TOLL TUNNEL			
				MTA PROJECT MANAGER: KRISTI VAN OUYEN, P.E.			
				SHEET NUMBER: S-02 CONTRACT: 2025.15 5 OF 41			



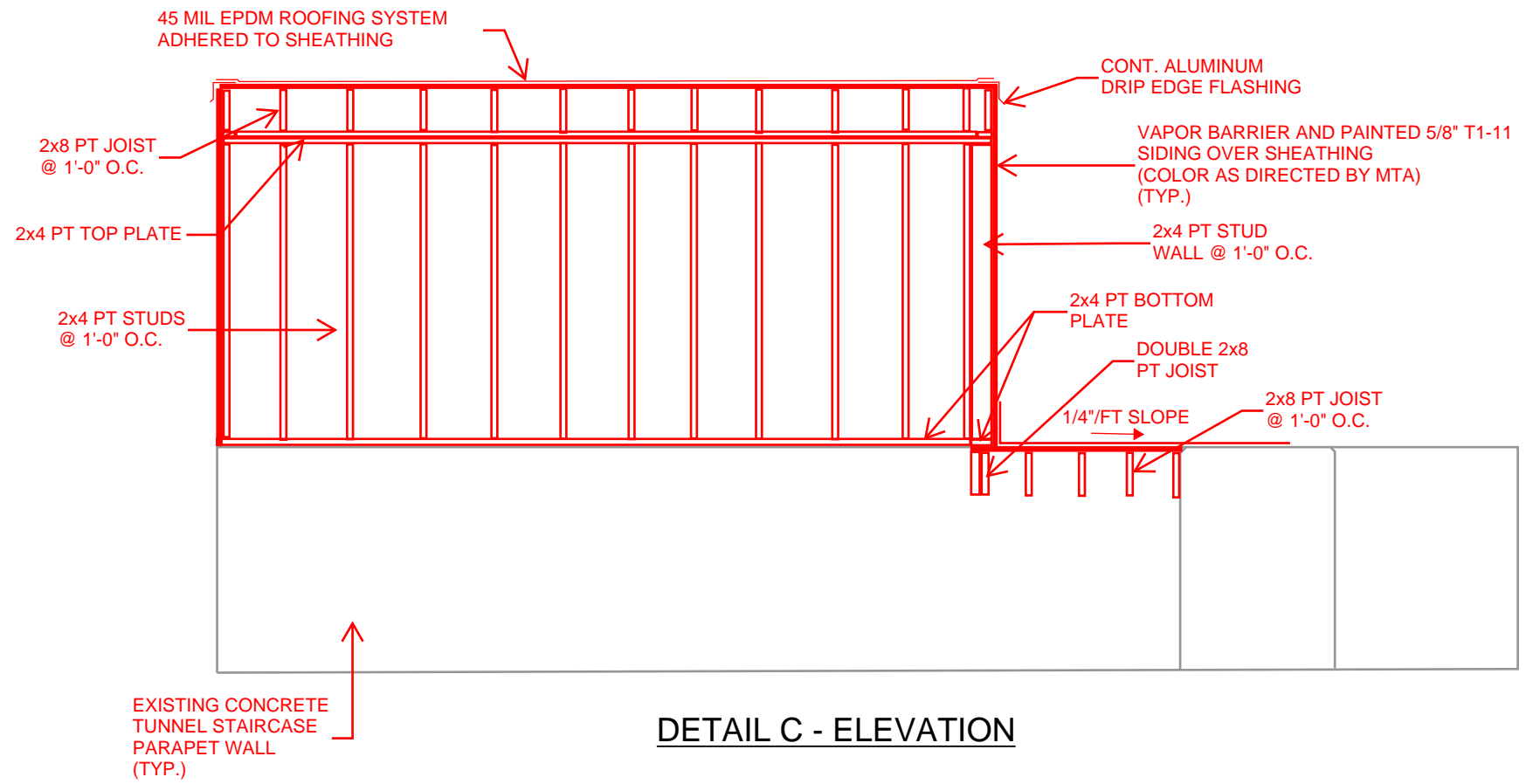


NOTES:

1. THERE IS AN EXISTING TRANSVERSE CONSTRUCTION JOINT IN THE CONCRETE ISLAND DIRECTLY ADJACENT TO THE TUNNEL ACCESS DOOR. FINAL LIMITS AND LOCATION OF CONCRETE GRINDING SHALL BE FIELD VERIFIED WITH THE RESIDENT ENGINEER. IF THE EXISTING CONSTRUCTION JOINT IS DISTURBED THE EXISTING JOINT SEALER SHALL BE REMOVED PRIOR TO GRINDING ACTIVITIES. AFTER GRINDING IS COMPLETE, THE CONSTRUCTION JOINT SHALL BE CLEANED AND SEALED WITH A SELF LEVELING ELASTOMERIC SEALER (1" DEEP, MIN.). THE CONSTRUCTION JOINT SHALL NOT BE LOCATED AT THE LOW POINT OF THE CONCRETE GRINDING IN THE FINAL CONDITION.



DETAIL C - PLAN



DETAIL C - ELEVATION

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

Scale: <i>NOT TO SCALE</i>			
No.	Revision	By	Date

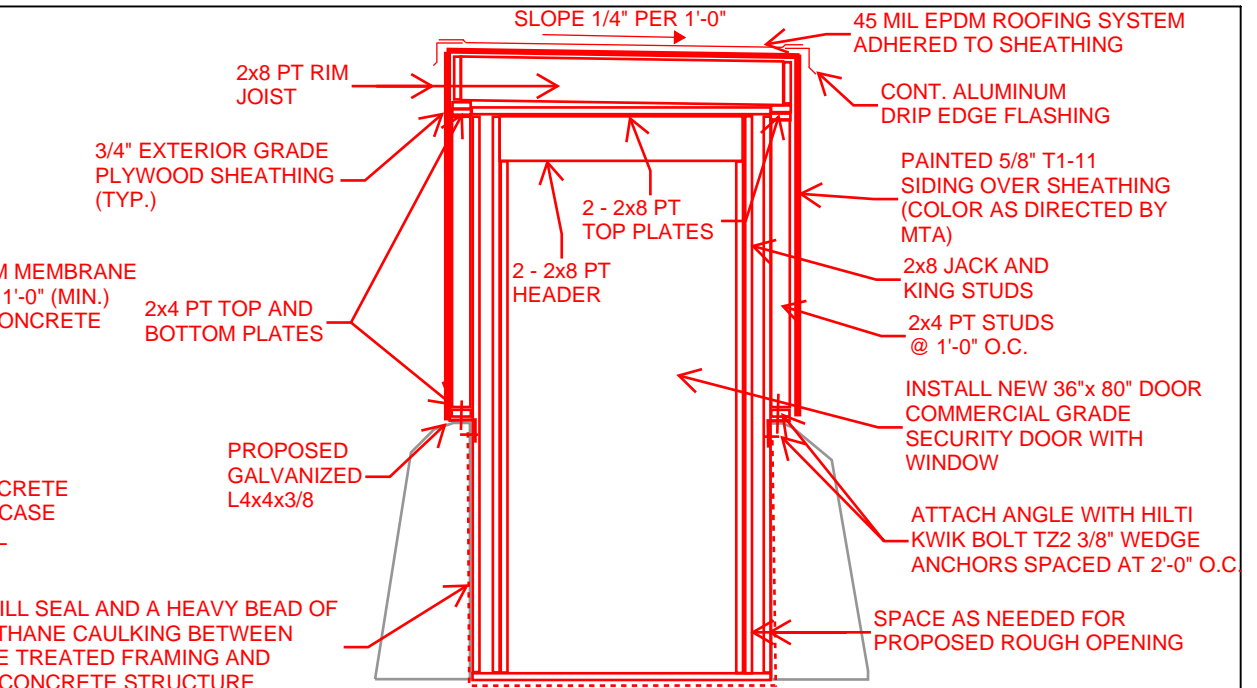
Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.					
	By	Date		By	Date
Designed	KJK	09/25	Checked	BRG	09/25
Drawn	KJK	09/25	In Charge of	TRC	09/25

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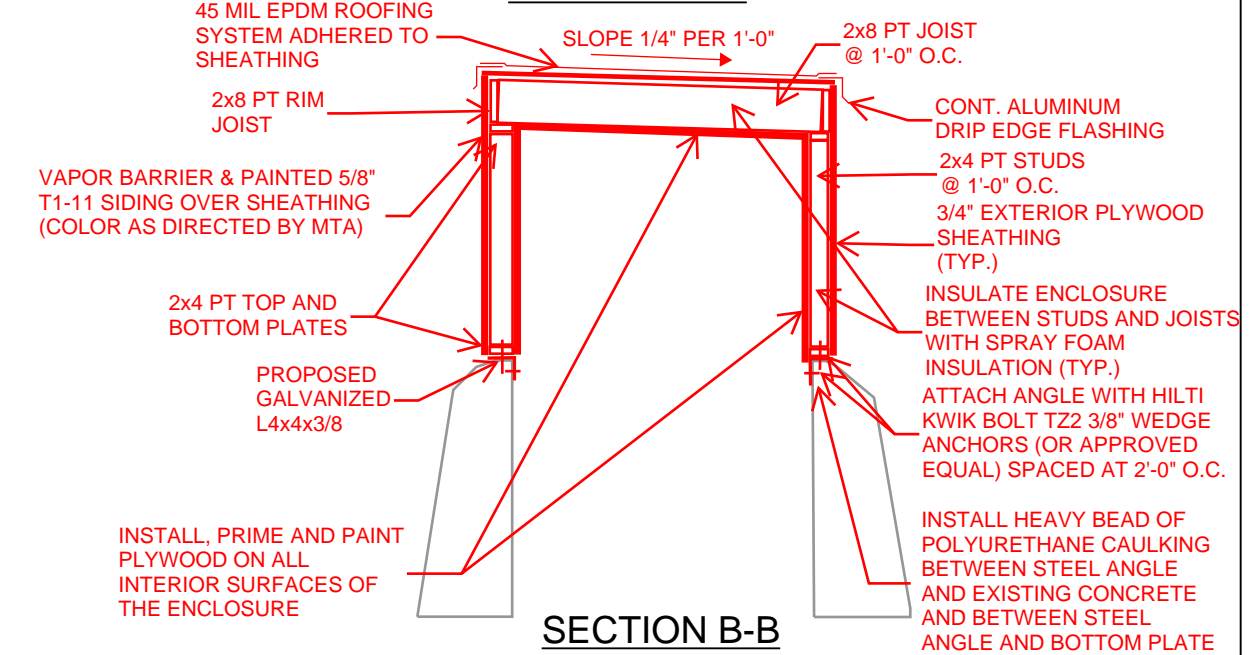


**THE GOLD STAR
MEMORIAL HIGHWAY**

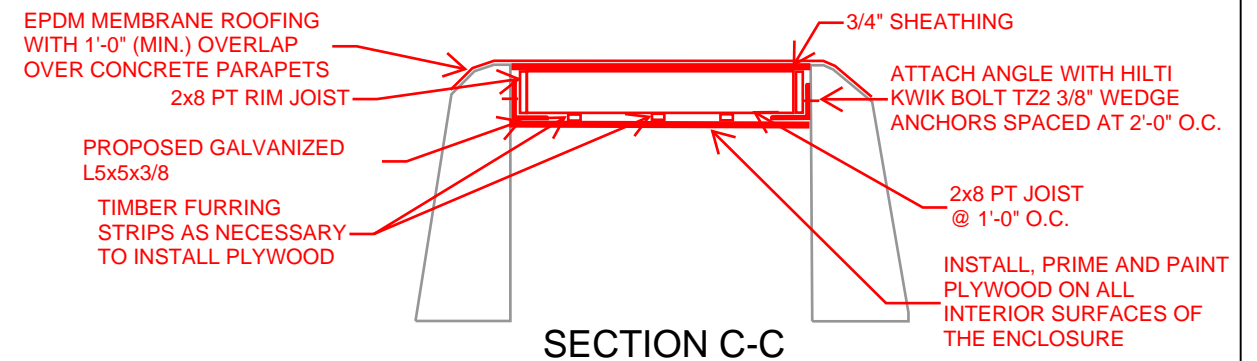
MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.



SECTION A-A



SECTION B-B



SECTION C-C

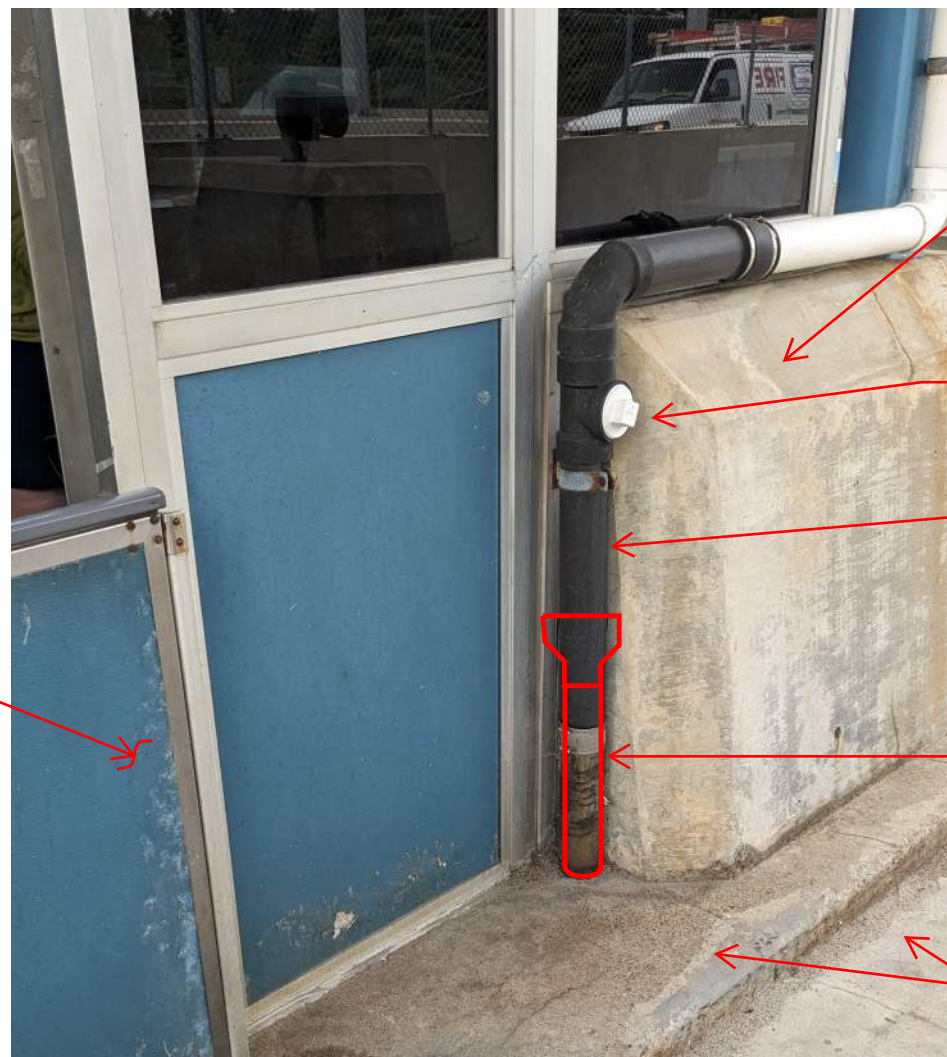
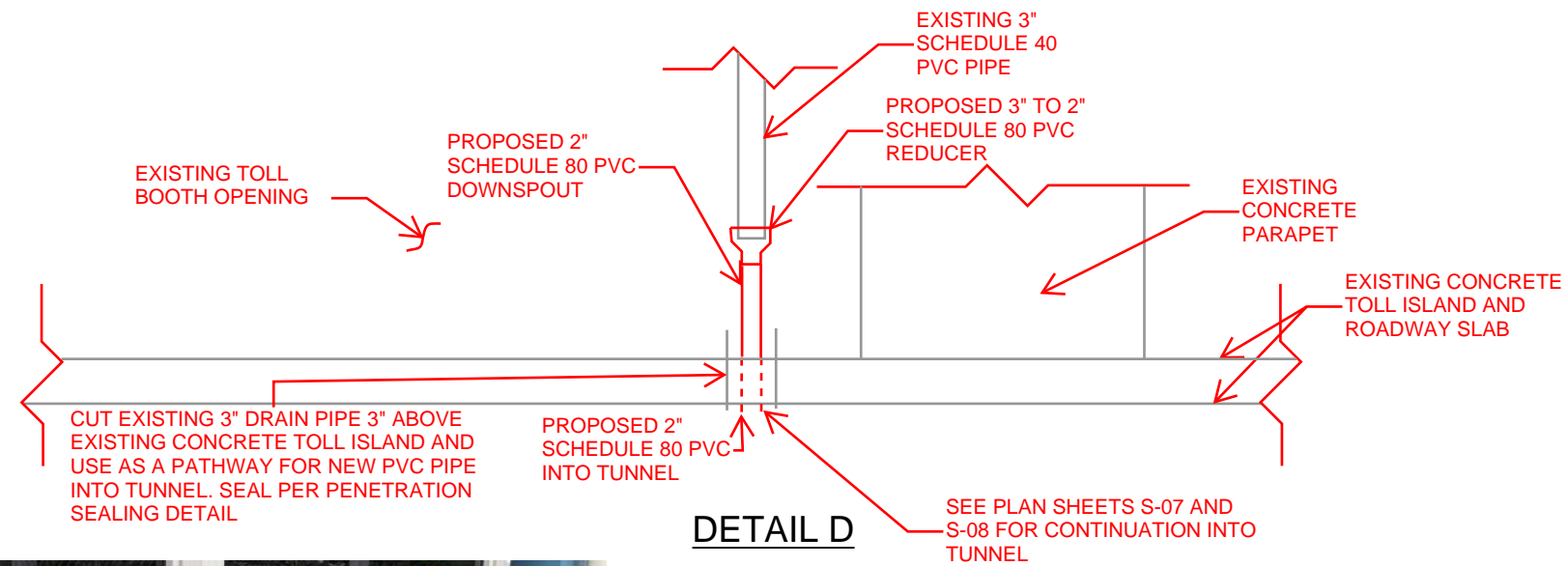
WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS

STAIR ENCLOSURE

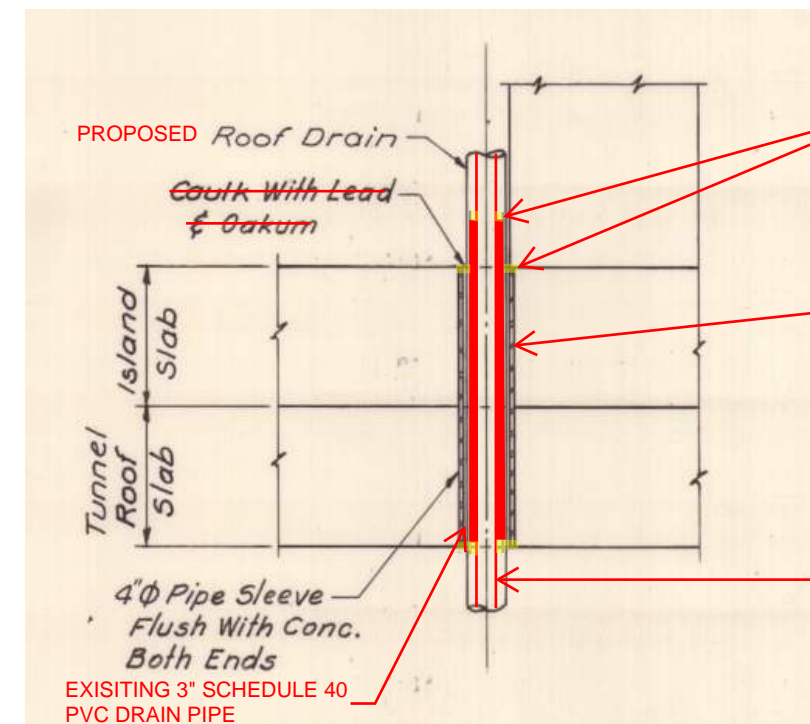
SHEET NUMBER: S-05

CONTRACT: 2025.15

8 OF 41



**NEW GLOUCESTER CANOPY DRAIN REPLACEMENT
ELEVATION - ROADWAY**



**NEW GLOUCESTER TUNNEL
PENETRATION SEALING DETAIL**

Scale: NOT TO SCALE				Designed by: <div>HNTB</div>					<div>HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909</div> <div><div><div>MAINE TURNPIKE</div><div>★</div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div>				<div>WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS</div> <div>CANOPY DRAIN MODIFICATION DETAILS I</div>			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.												
					By	Date		By					Date	SHEET NUMBER: S-06		
				Designed	KJK	09/25	Checked	BRG	09/25	CONTRACT: 2025.15						
				Drawn	KJK	09/25	In Charge of	TRC	09/25	9 OF 41						
MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.																



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

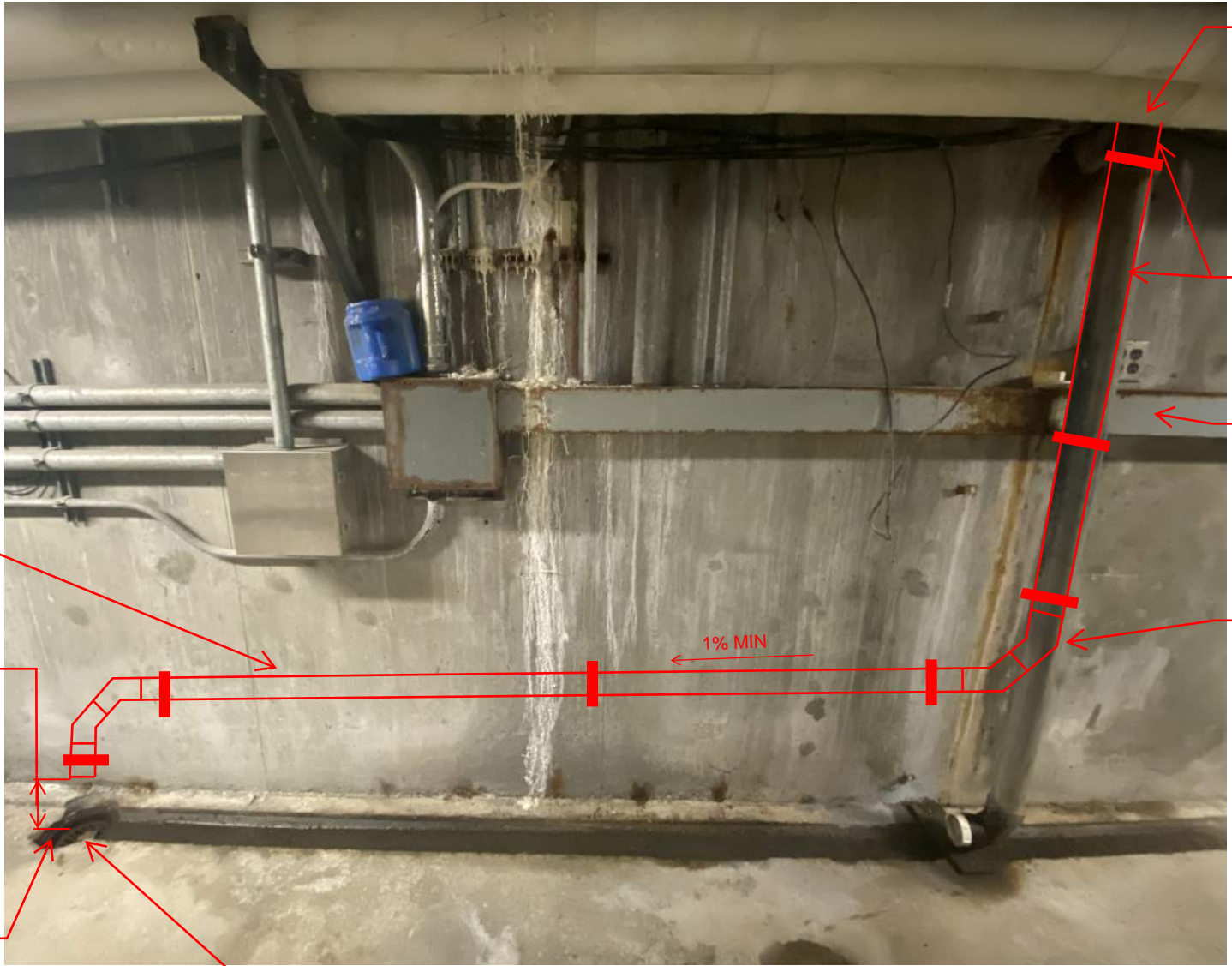
PROPOSED 2" SCHEDULE 80 PVC PIPE

3" MIN.
6" MAX.

REMOVE EXISTING WYE FITTING AND 3" SCHEDULE 40 PIPE

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

**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT ELEVATION - CONFIGURATION 1**



SEE PLAN SHEET S-06 FOR TOPSIDE MODIFICATIONS.

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

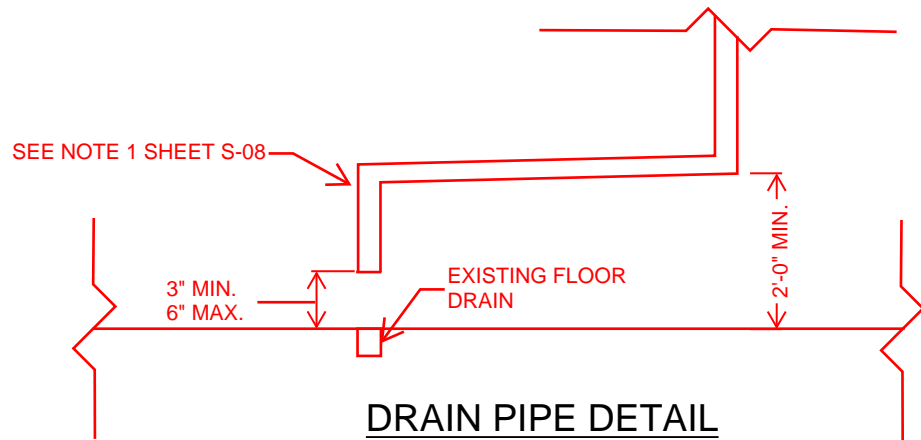
EXISTING ELECTRICAL RACEWAY

SEE NOTE 2 SHEET S-09

1% MIN

SEE NOTE 1 SHEET S-08

**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT ELEVATION - CONFIGURATION 1**



SEE NOTE 1 SHEET S-08

3" MIN.
6" MAX.

EXISTING FLOOR DRAIN

2'-0" MIN.

DRAIN PIPE DETAIL

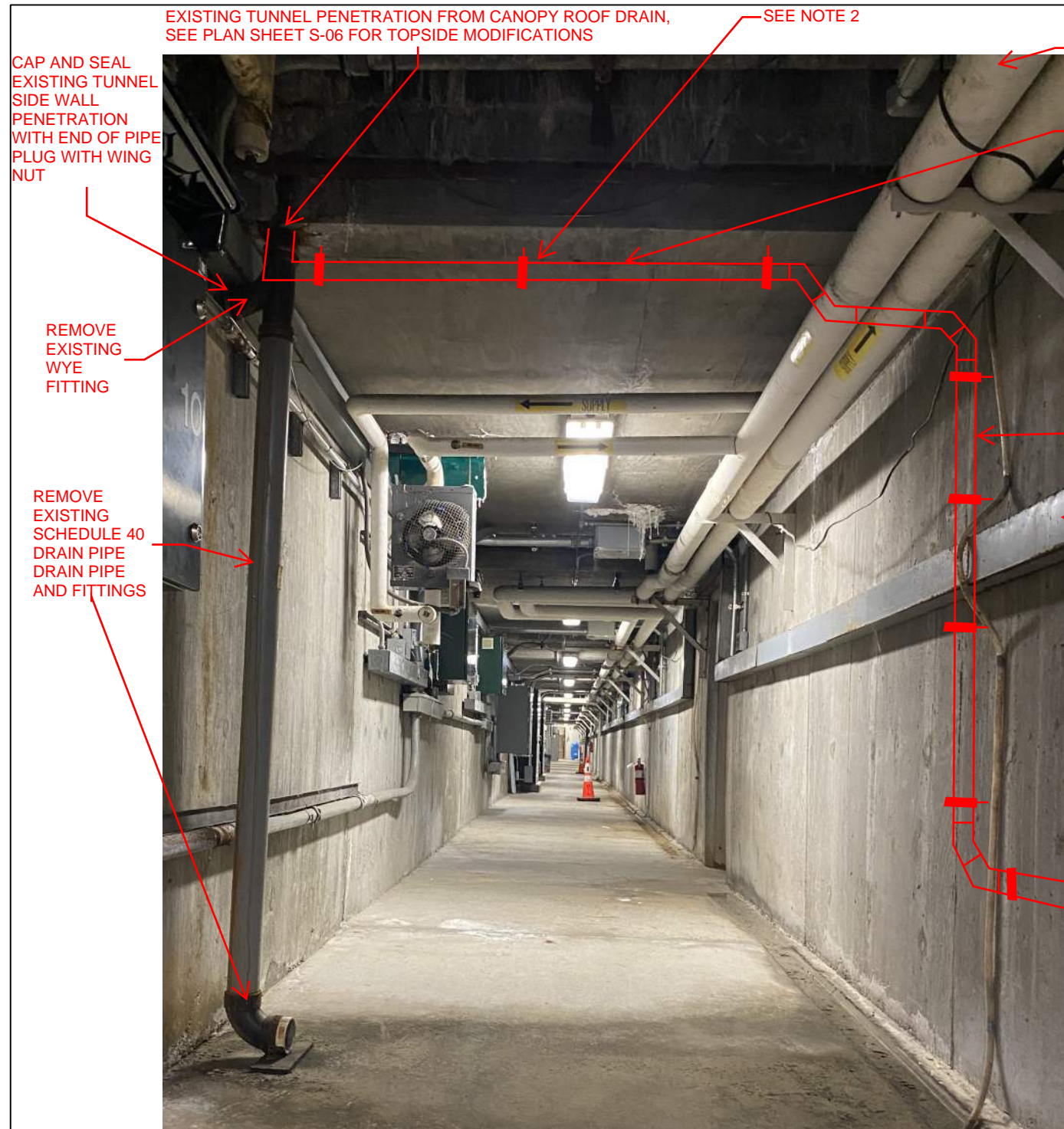
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NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
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

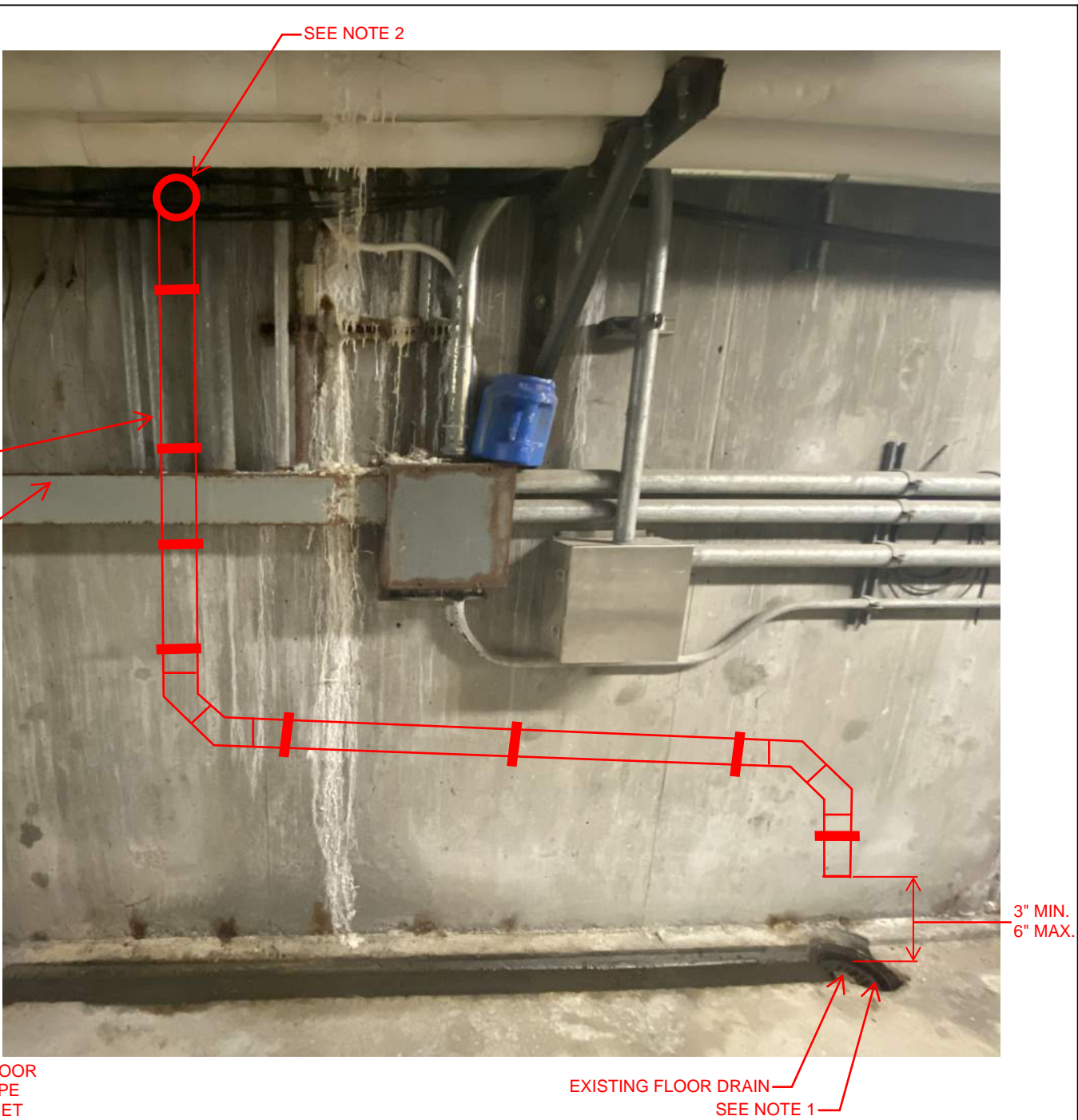
HNTB CORPORATION	
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South Portland, ME 04106	
TEL (207) 774-5155	
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	THE GOLD STAR MEMORIAL HIGHWAY	
	MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.	

WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS	
CANOPY DRAIN MODIFICATION DETAILS II	
SHEET NUMBER: S-07	
CONTRACT: 2025.15	
10 OF 41	




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

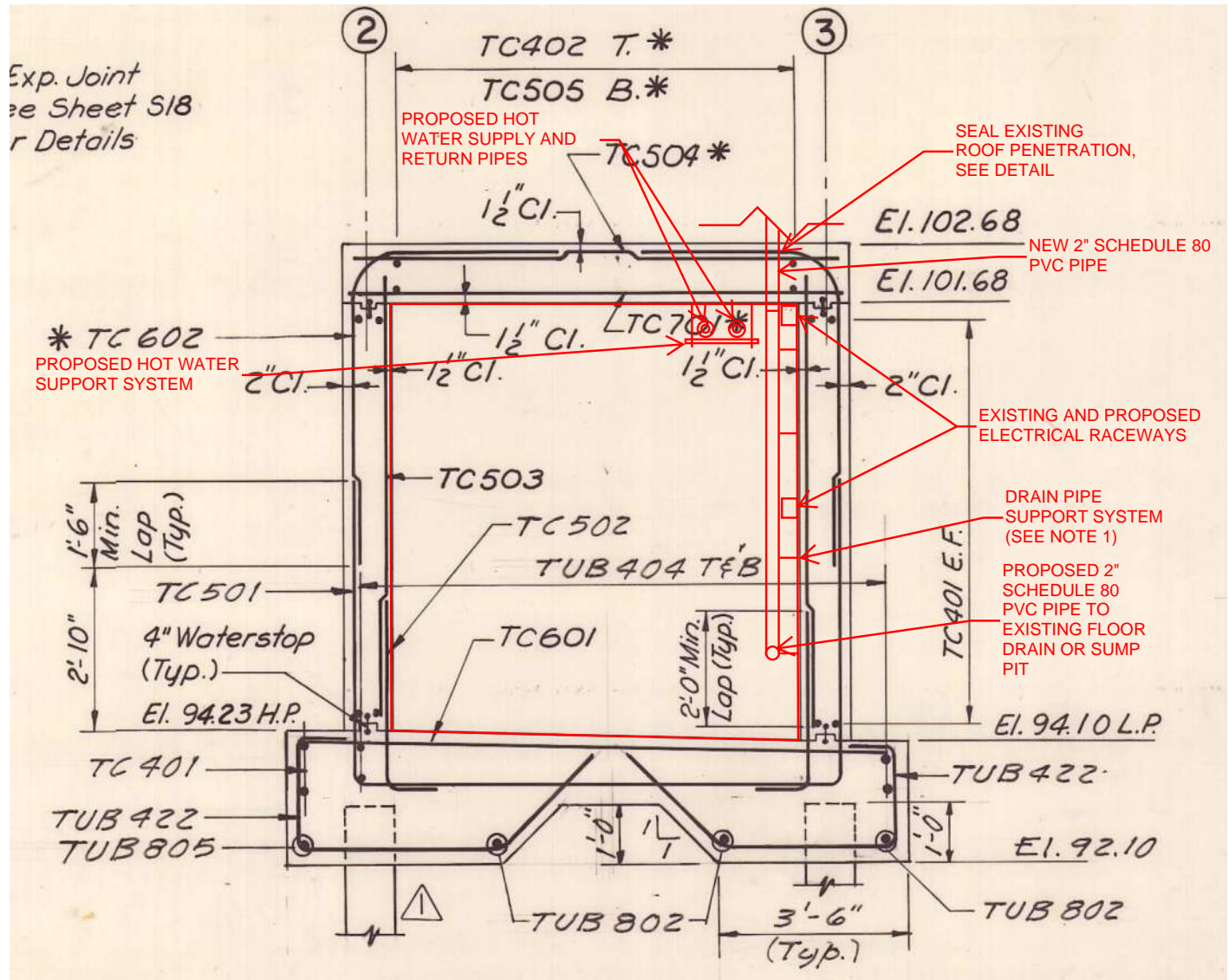


**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT ELEVATION - CONFIGURATION 2**

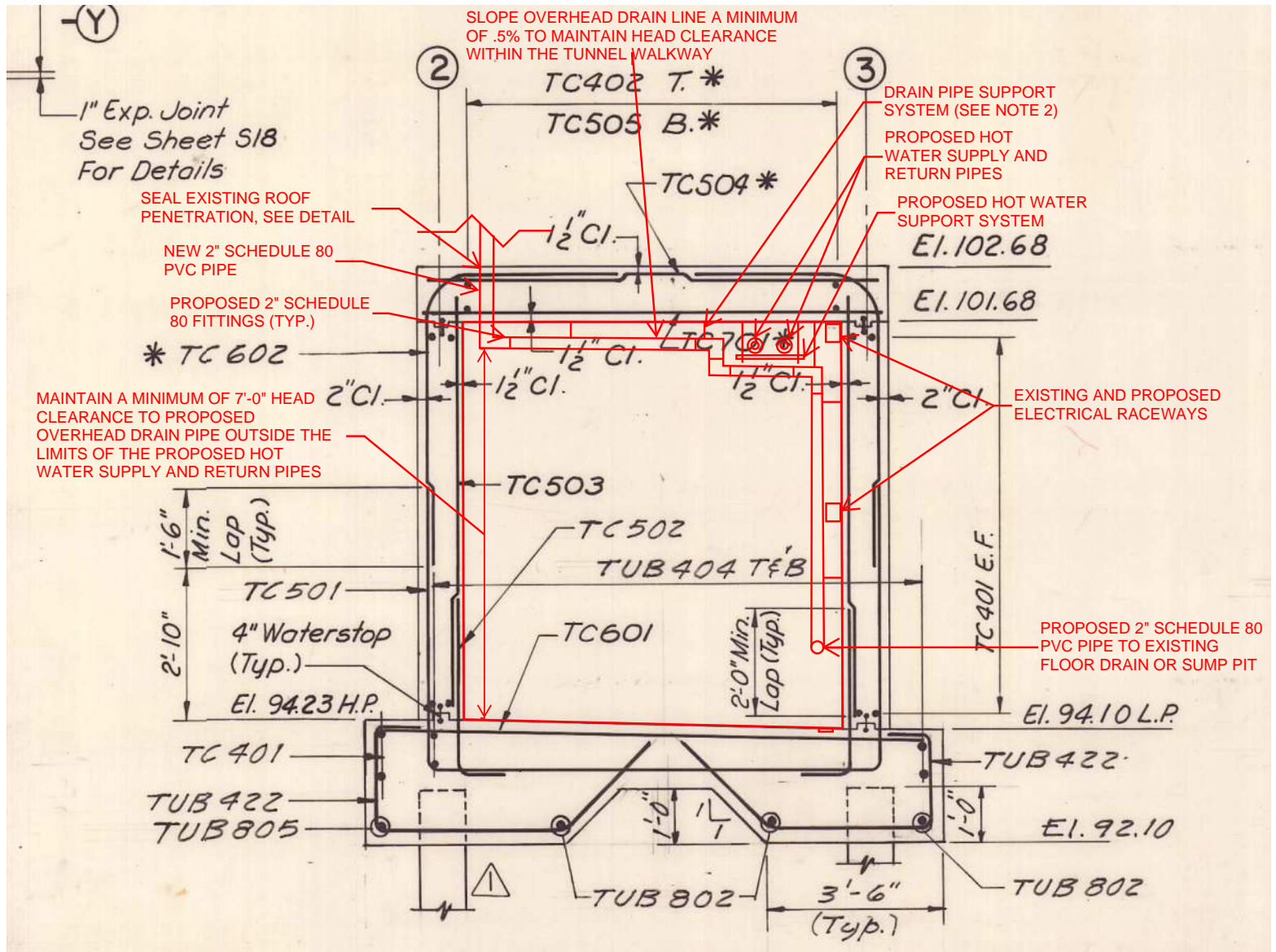
NOTES:

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 GLOUCSTER 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				Designed by: <div>HNTB</div>				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909				<div><div><div>MAINE TURNPIKE</div><div></div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div>				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS CANOPY DRAIN MODIFICATION DETAILS III			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				MTA PROJECT MANAGER: KRISTI VAN OUYEN, P.E.				CONTRACT: 2025.15							
				By	Date	By	Date	SHEET NUMBER: S-08				11 OF 41							
				Designed	KJK 09/25	Checked	BRG 09/25												
				Drawn	KJK 09/25	In Charge of	TRC 09/25												



**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT SECTION - CONFIGURATION 1**

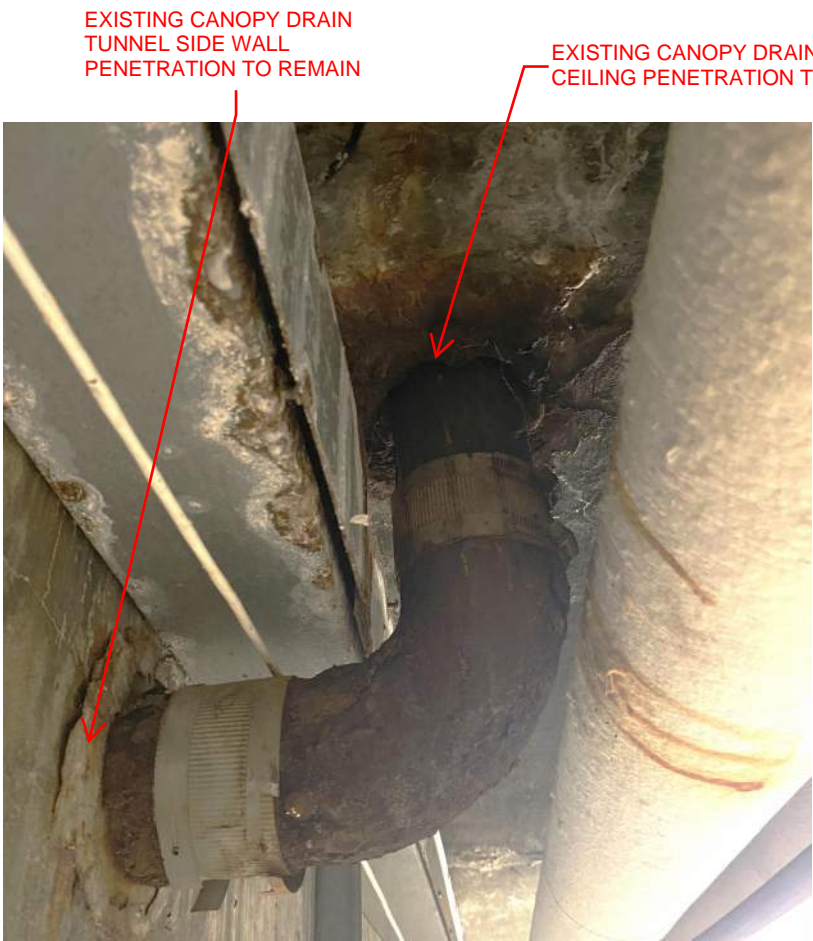


**NEW GLOUCESTER CANOPY DRAIN
REPLACEMENT SECTION - CONFIGURATION 2**

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.

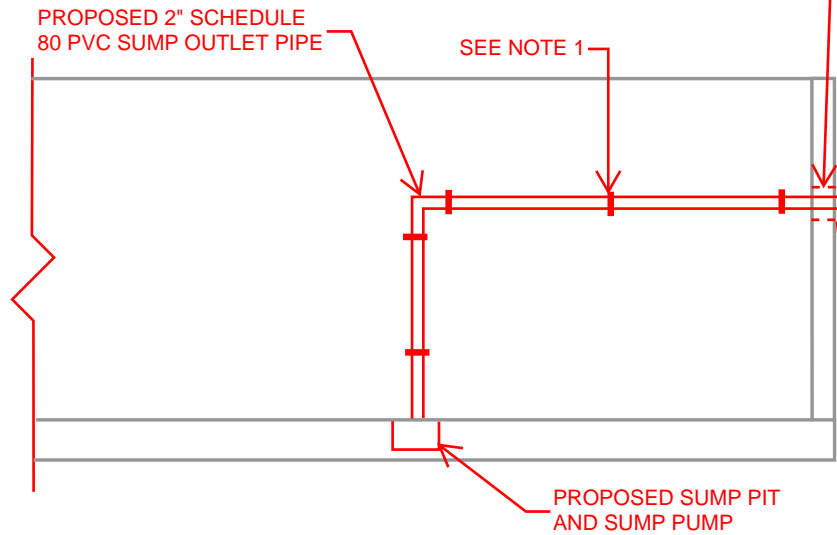
Scale: NOT TO SCALE				Designed by: <div>HNTB</div>				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909				<div><div><div>MAINE TURNPIKE</div><div></div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div>				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS CANOPY DRAIN MODIFICATION DETAILS IV			
No.	Revision		By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.				CONTRACT: 2025.15						
					By	Date	Checked	By	Date	SHEET NUMBER: S-09									
					KJK	09/25	BRG	09/25	12 OF 41										
					KJK	09/25	In Charge of	TRC	09/25										



EXISTING CANOPY DRAIN
TUNNEL SIDE WALL
PENETRATION TO REMAIN

EXISTING CANOPY DRAIN TUNNEL
CEILING PENETRATION TO REMAIN

**EXISTING WEST GARDINIER
CANOPY DRAIN ELEVATION**



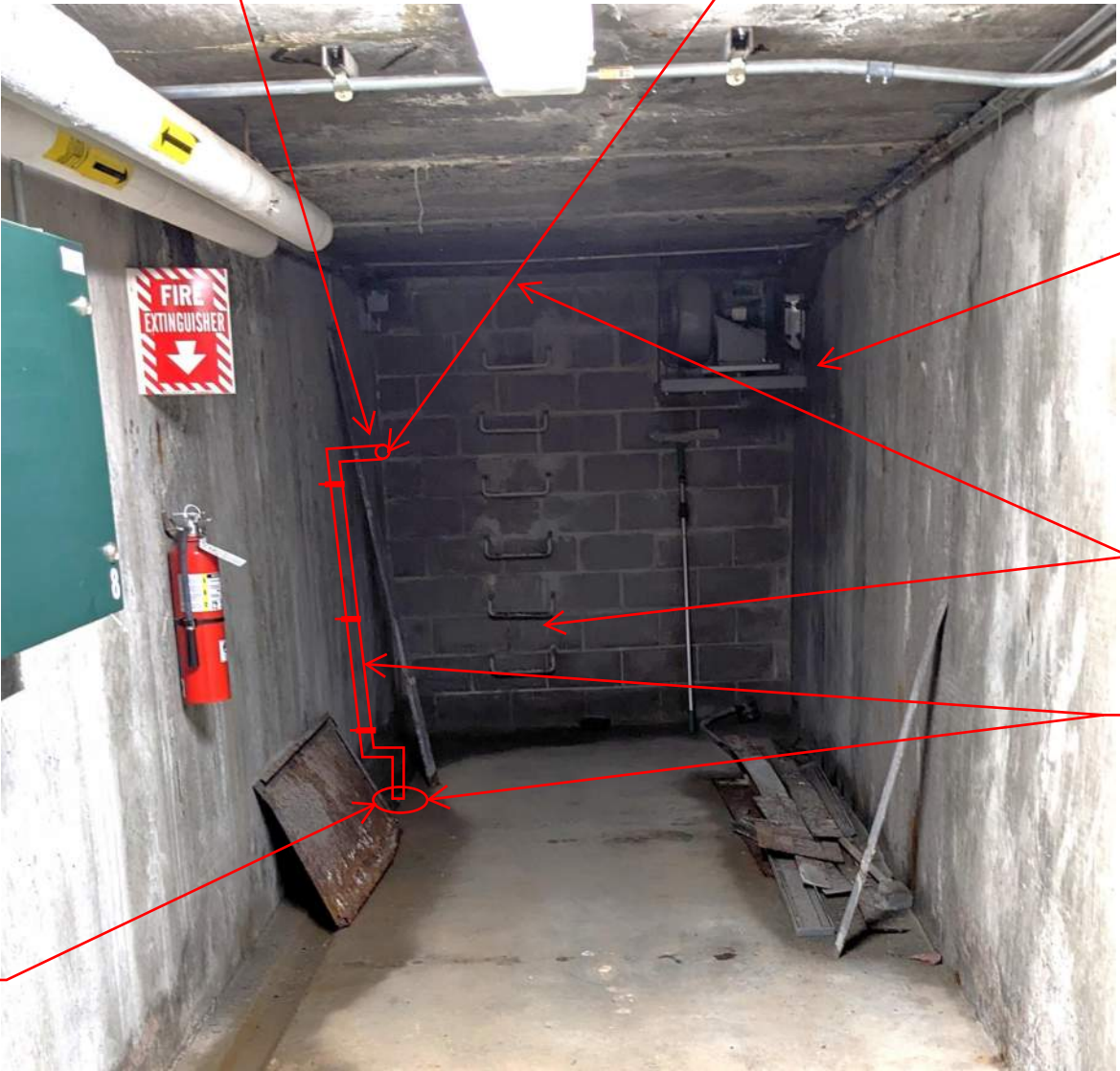
PROPOSED SUMP PIT SCHEMATIC - WEST GARDINIER

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

DAYLIGHT PROPOSED 2"
SCHEDULE 80 PVC DRAIN
LINE INTO EXISTING
DRAINAGE DITCH

CORE THROUGH EXISTING CONCRETE
TUNNEL END WALL AT AN ELEVATION
AGREED UPON BY THE RESIDENT TO
PROVIDE POSITIVE DRAINAGE TO
DAYLIGHT. INSTALL LINK SEAL WITH
STAINLESS STEEL HARDWARE
BETWEEN CONCRETE AND PROPOSED
PVC PIPE



ELEVATION OF THE CORE TO BE
COORDINATED WITH THE RESIDENT

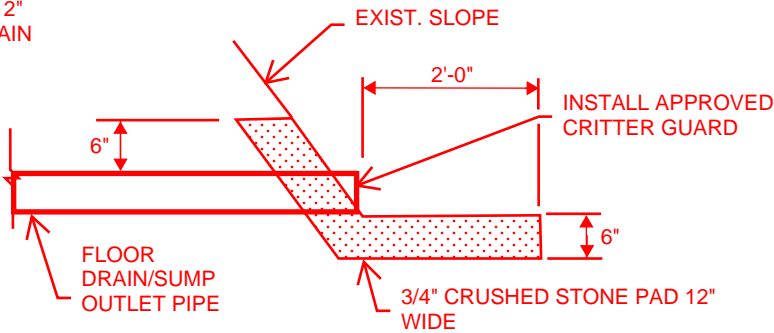
CORE THROUGH TUNNEL END WALL

EXISTING TUNNEL EXHAUST
FAN TO BE REMOVED AND
REPLACED (SEE
MECHANICAL PLANS)

EXISTING LADDER AND
TUNNEL HATCH

INSTALLATION OF THE
PROPOSED SUMP PIT, SUMP
PUMP AND DRAINAGE LINES
SHALL NOT INTERFERE WITH
ACCESS TO THE EXISTING
LADDER

PROPOSED SUMP PIT - WEST GARDINIER



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.

Scale: NOT TO SCALE			
No.	Revision	By	Date

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

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FAX (207) 228-0909



**THE GOLD STAR
MEMORIAL HIGHWAY**

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

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

CONTRACT:2025.15

SHEET NUMBER: S-10

13 OF 41




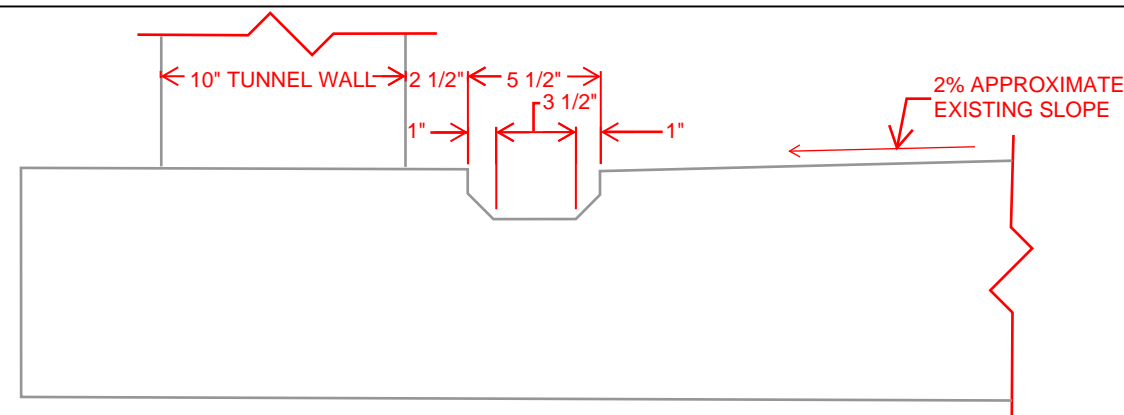
CAP AND SEAL ALL EXISTING TUNNEL SIDE WALL PENETRATIONS FROM THE ORIGINAL PLAZA THAT ARE NOT IN USE WITH END OF PIPE PLUG WITH WING NUT AT THE DIRECTION OF THE RESIDENT

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

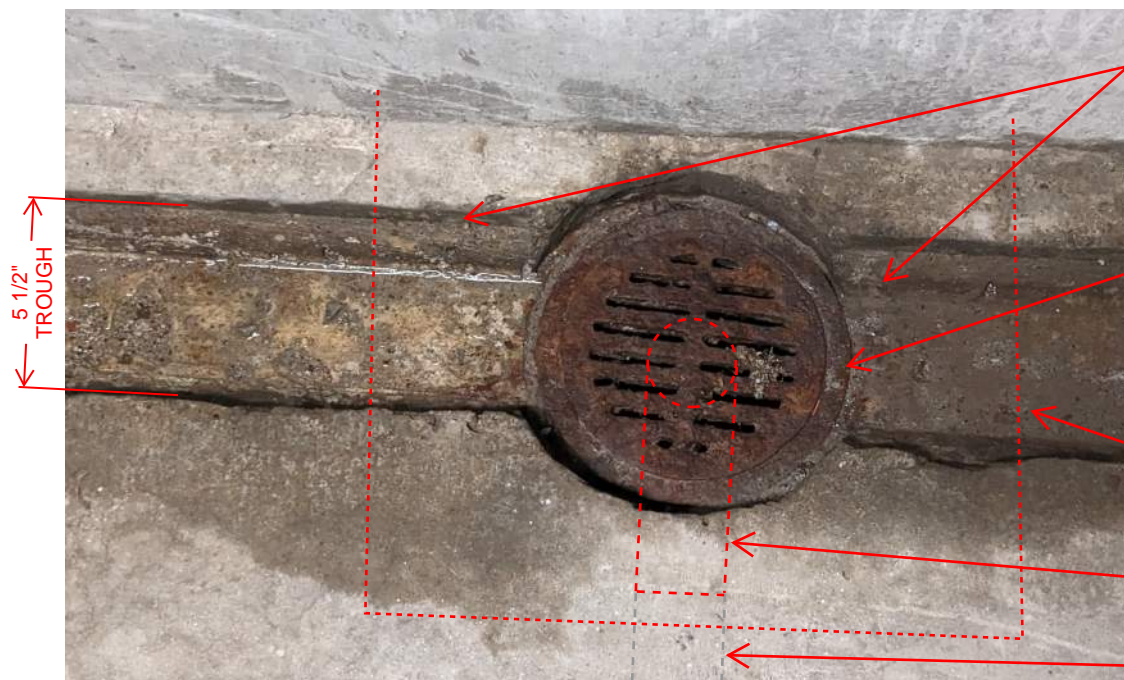


MISCELLANEOUS DRAINAGE DETAILS

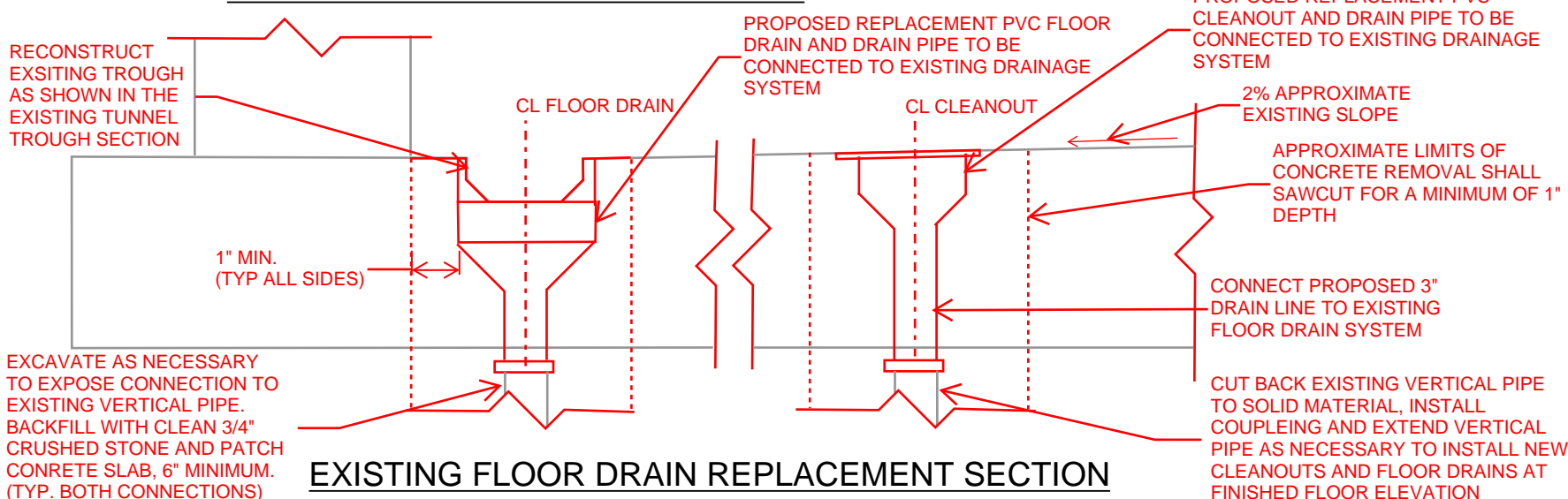
Scale: NOT TO SCALE				Designed by: HNTB				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909						THE GOLD STAR MEMORIAL HIGHWAY		WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS			
																CANOPY DRAIN MODIFICATION DETAILS VI			
																SHEET NUMBER: S-11			
																CONTRACT:2025.15			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				MTA PROJECT MANAGER: KRISTI VAN Ooyen, P.E.				14 OF 41							
					By	Date		By	Date										
				Designed	KJK	09/25	Checked	BRG	09/25										
				Drawn	KJK	09/25	In Charge of	TRC	09/25										



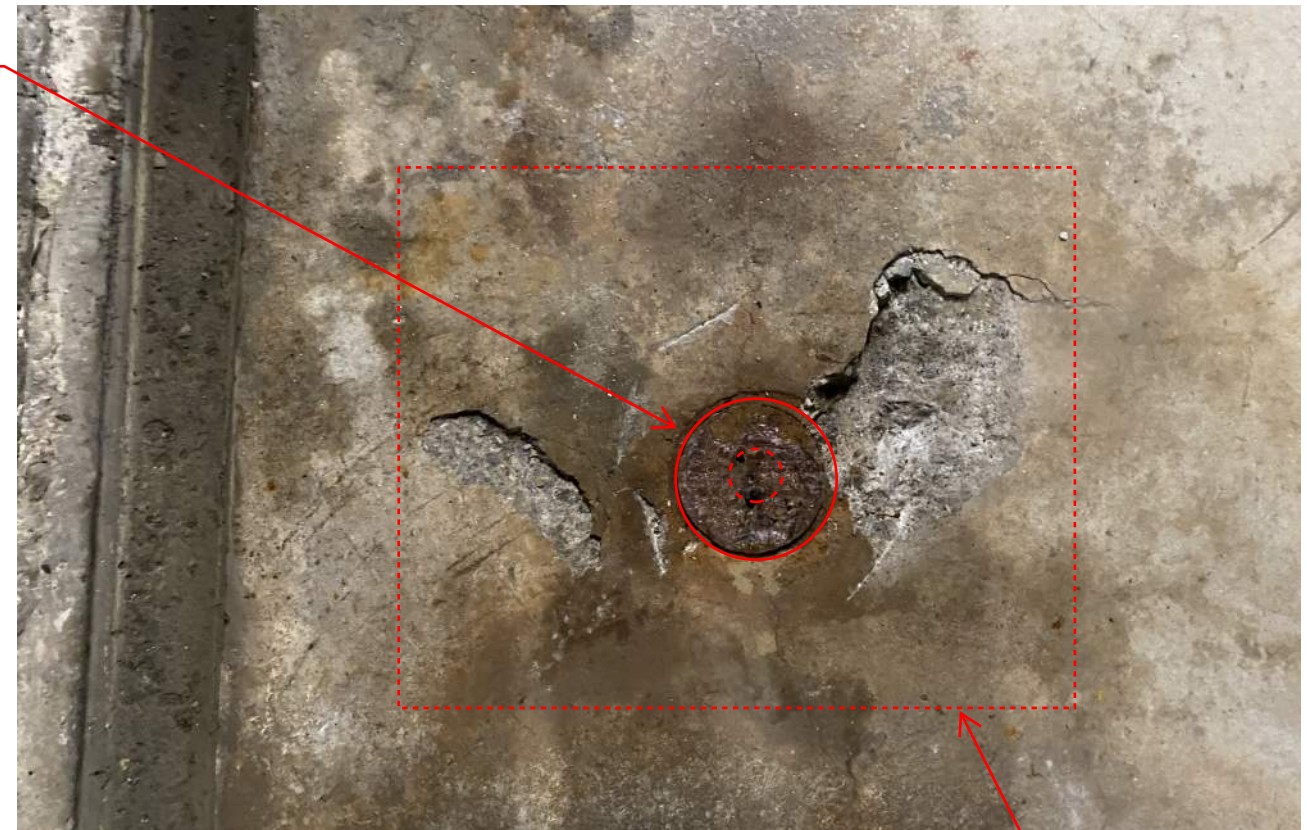
EXISTING TUNNEL TROUGH SECTION



FLOOR DRAIN REPLACEMENT PLAN



EXISTING FLOOR DRAIN REPLACEMENT SECTION



CLEANOUT REPLACEMENT PLAN



EXISTING FLOOR DRAIN DETAIL

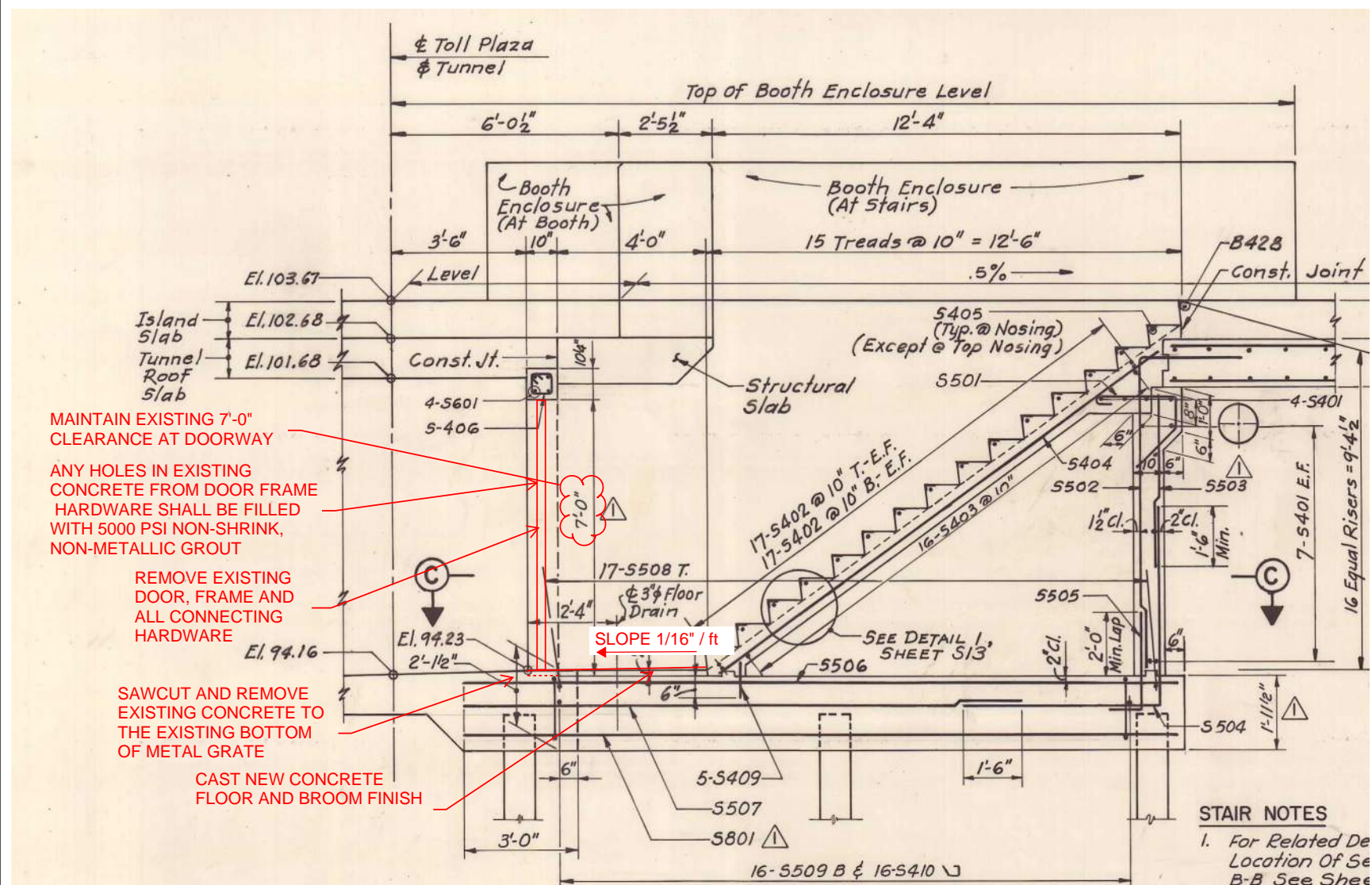
APPROXIMATE LIMITS OF FLOOR DRAIN REMOVAL. FINAL REMOVAL LIMITS TO BE FIELD VERIFIED TO REPLACE EXISTING DRAIN LINES AND SHALL ENCOMPASS ALL AREAS OF SPALLED AND DELAMINATED CONCRETE

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

NOTES:

1. 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.

Scale: <i>NOT TO SCALE</i>				Designed by:			
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
				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909			
				THE GOLD STAR MEMORIAL HIGHWAY			
				MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.			
				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS FLOOR DRAIN & CLEAN OUT REPLACEMENT DETAILS			
				SHEET NUMBER: S-12 CONTRACT: 2025.15 15 OF 41			



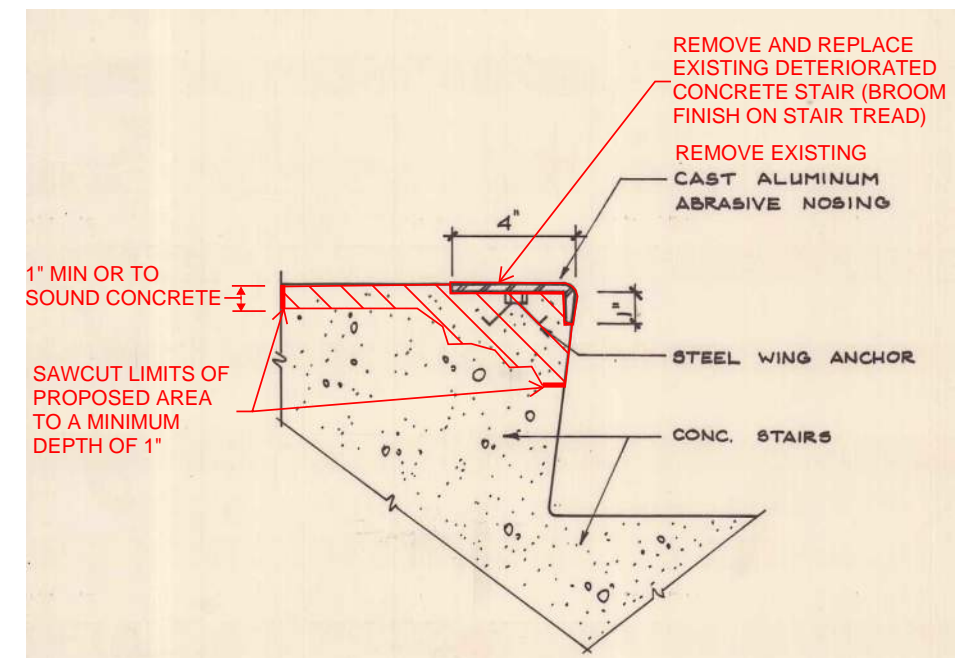
WEST GARDINIER STAIRWELL LANDING SECTION

(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.

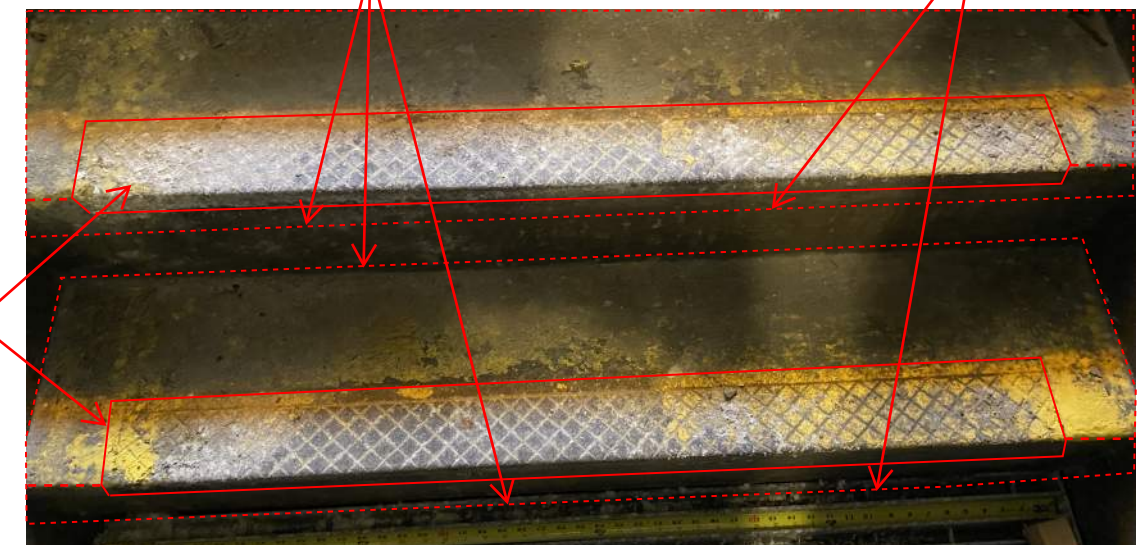
2. STAIRWELL LANDING SLOPE REPAIRS ARE REQUIRED AT ALL STAIR LOCATIONS, BOTH CAPPED AND ENCLOSURE ENTRANCE, EXCEPT AS DESCRIBED IN NOTE 1 ON SHEET S-16.



STAIRWELL NOSING REPAIR SECTION

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"



EXISTING CAST ALUMINUM
ABRASIVE NOSING TO BE
REMOVED

STAIRWELL NOSING REPAIR ELEVATION

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No.	Revision			By	Date			CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				SHEET NUMBER: S-13							
													CONTRACT: 2025.15						
													16 OF 41						



WEST GARDINER STAIRWELL LANDING
REPAIR PLAN

- ANY HOLES IN EXISTING CONCRETE FROM DOOR FRAME HARDWARE SHALL BE FILLED WITH 5000 PSI NON-SHRINK, NON-METALLIC GROUT
- REMOVE EXISTING DOOR, FRAME AND ALL CONNECTING HARDWARE
- REMOVE EXISTING DEBRIS FROM CONCRETE SURFACE
- EXISTING 3" DIA. FLOOR DRAIN
- REMOVE EXISTING METAL GRATE
- REMOVE FLOOR DRAIN 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 ELEVATION

Scale: NOT TO SCALE			
No.	Revision	By	Date

Designed by: HNTB					
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

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



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


REMOVE EXISTING DOOR,
FRAME AND ALL CONNECTING
HARDWARE

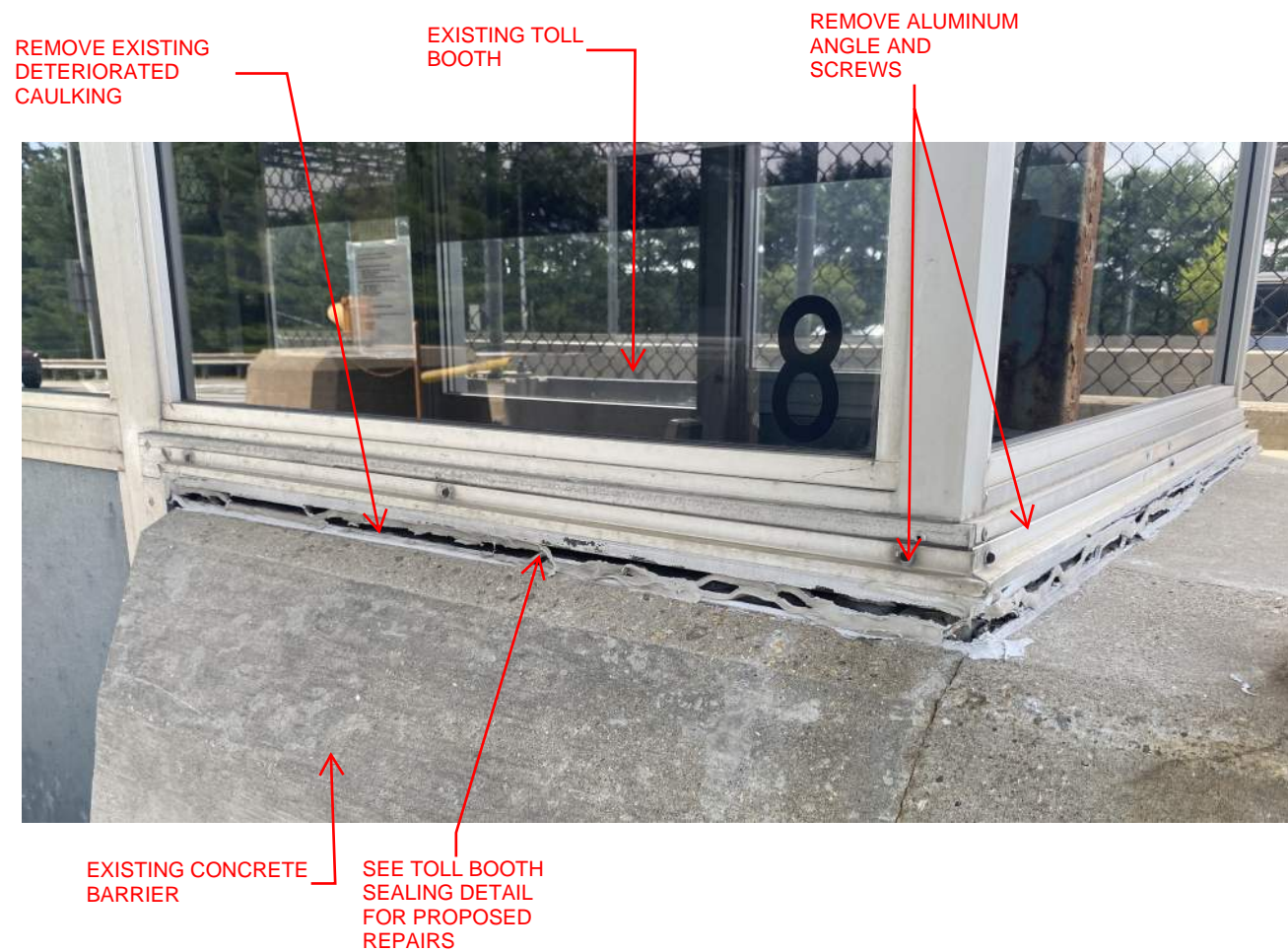
SEE NOTE 1

NOTES:

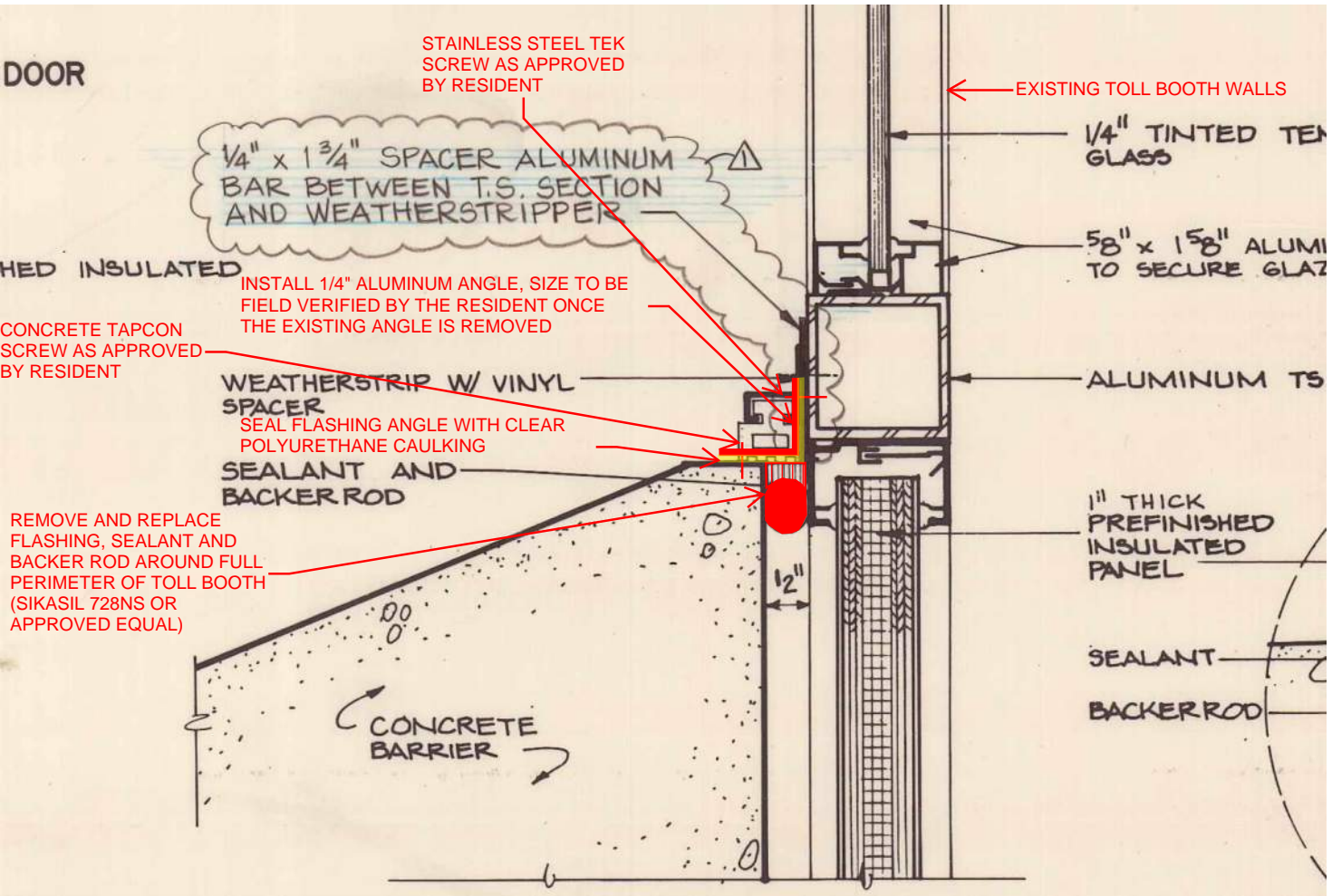
1. THE EXISTING LANDINGS AT THE NEW GLOUCESTER TOLL PLAZA HAVE BEEN PREVIOUSLY REPAIRED TO REMOVE THE EXISTING GRATING AND PLACE A CONCRETE SLAB. THE EXISTING 3" DIA. FLOOR DRAIN AT THE STAIR LANDING SHALL BE CLEANED AND DESCALED WITH CHAIN CLEANING THEN FLUSHED TO REMOVE ANY LOOSE DEBRIS. IF THE RESIDENT 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 GARDINIER STAIRWELL LANDING DETAILS.

NEW GLOUCESTER STAIRWELL LANDING
REPAIR ELEVATION

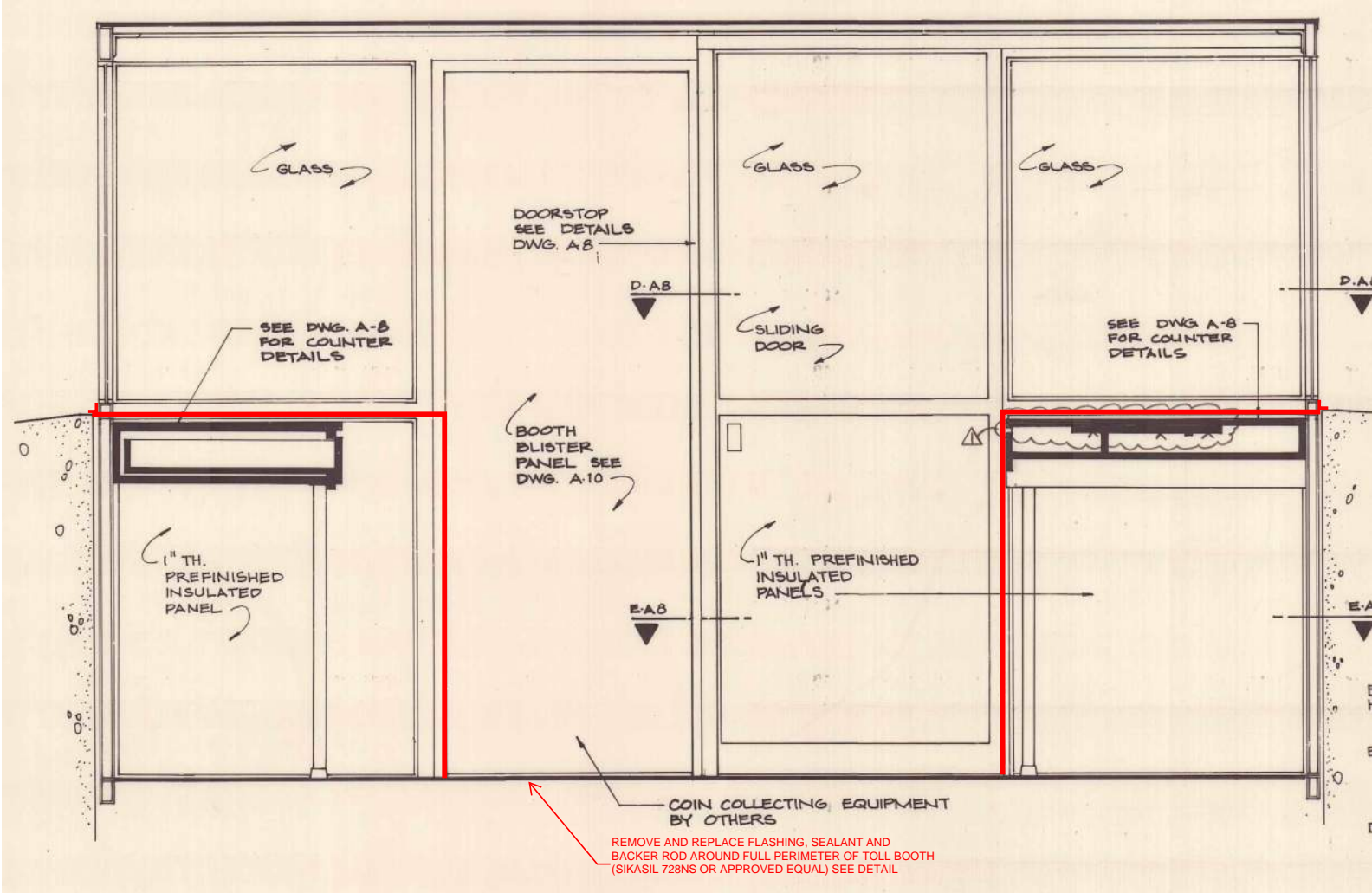
Scale: NOT TO SCALE				Designed by: HNTB				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909				 THE GOLD STAR MEMORIAL HIGHWAY				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS STAIR REPAIR DETAILS III			
No.	Revision	By	Date	CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.				CONTRACT:2025.15				SHEET NUMBER: S-15			
				By	Date	By	Date												
				Designed	KJK 09/25	Checked	BRG 09/25												
				Drawn	KJK 09/25	In Charge of	TRC 09/25									18 OF 41			



TOLL BOOTH SEALING ELEVATION



TOLL BOOTH SEALING DETAIL



TOLLBOOTH SEALING ELEVATION

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:					
HNTB					
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

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

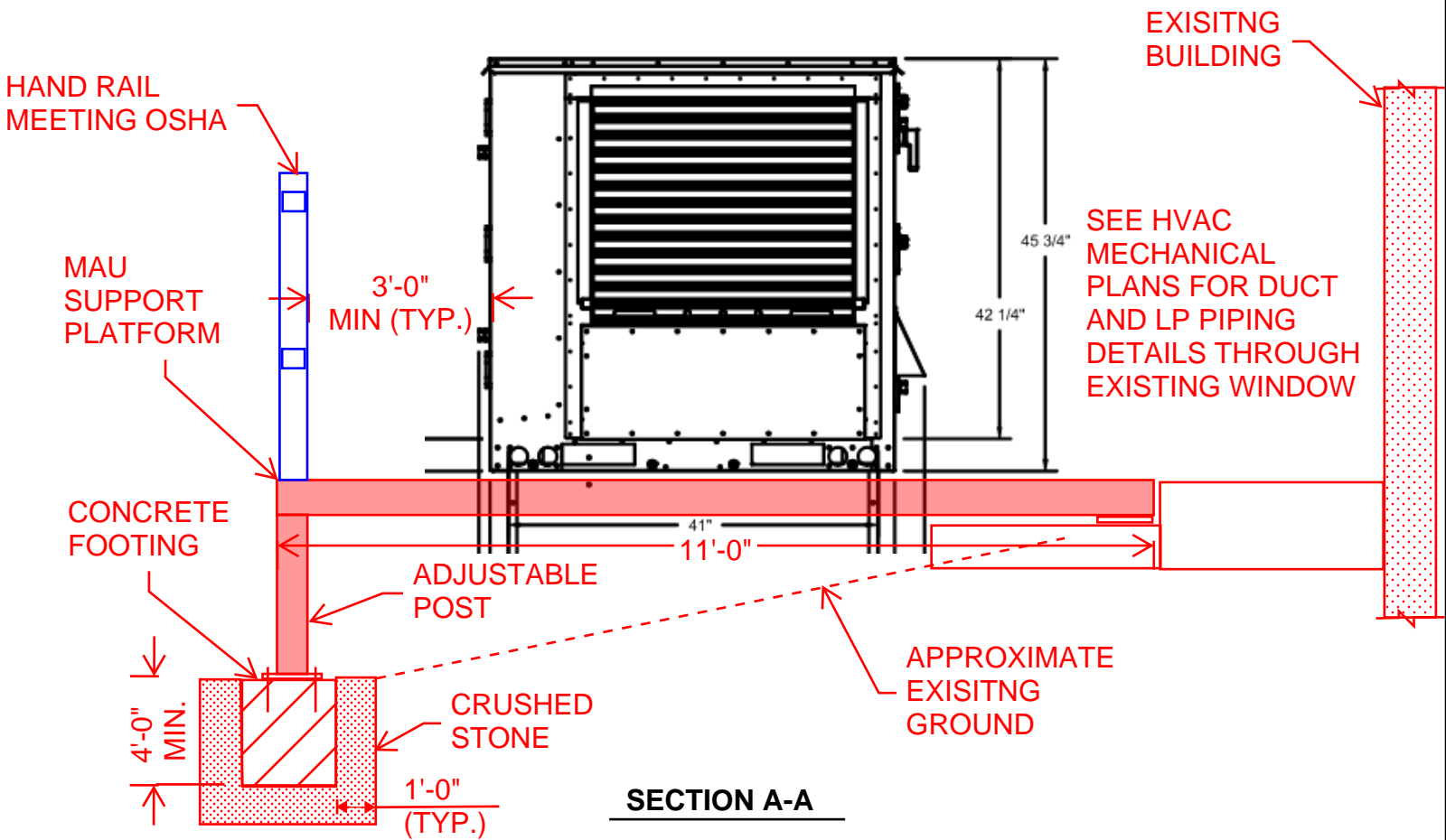
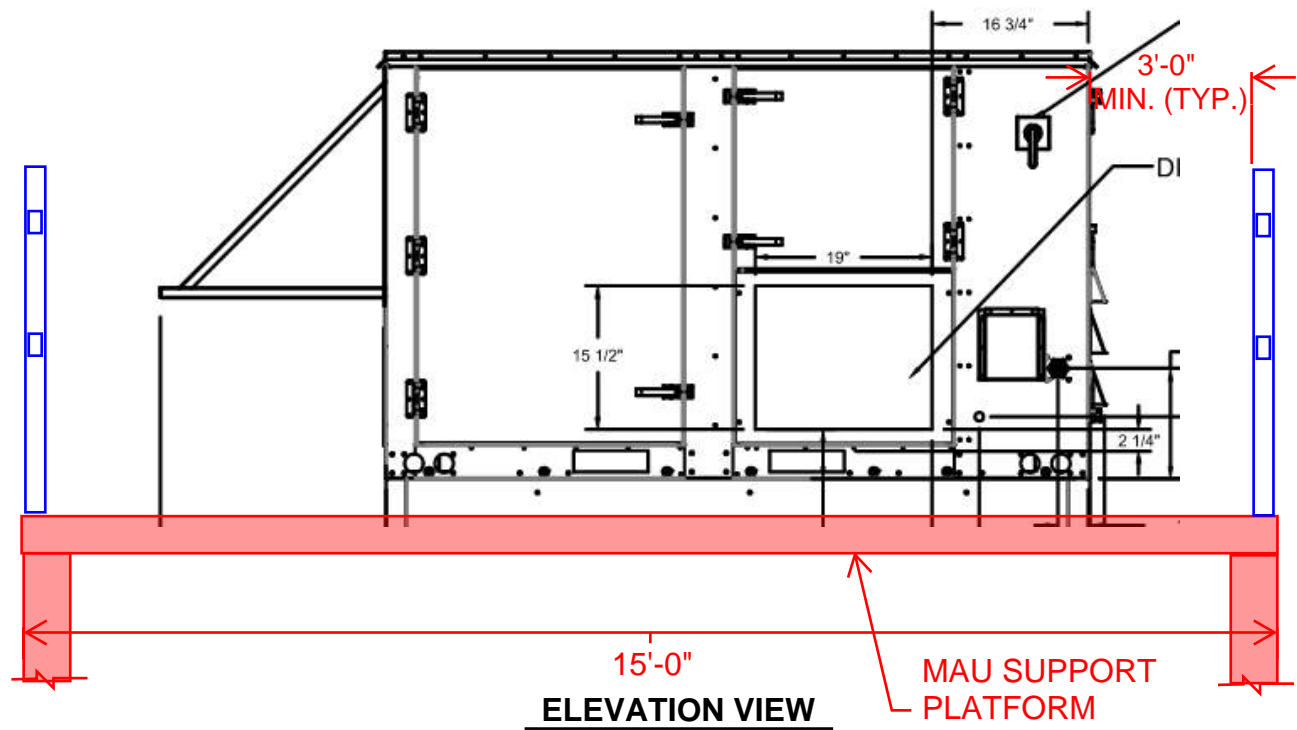
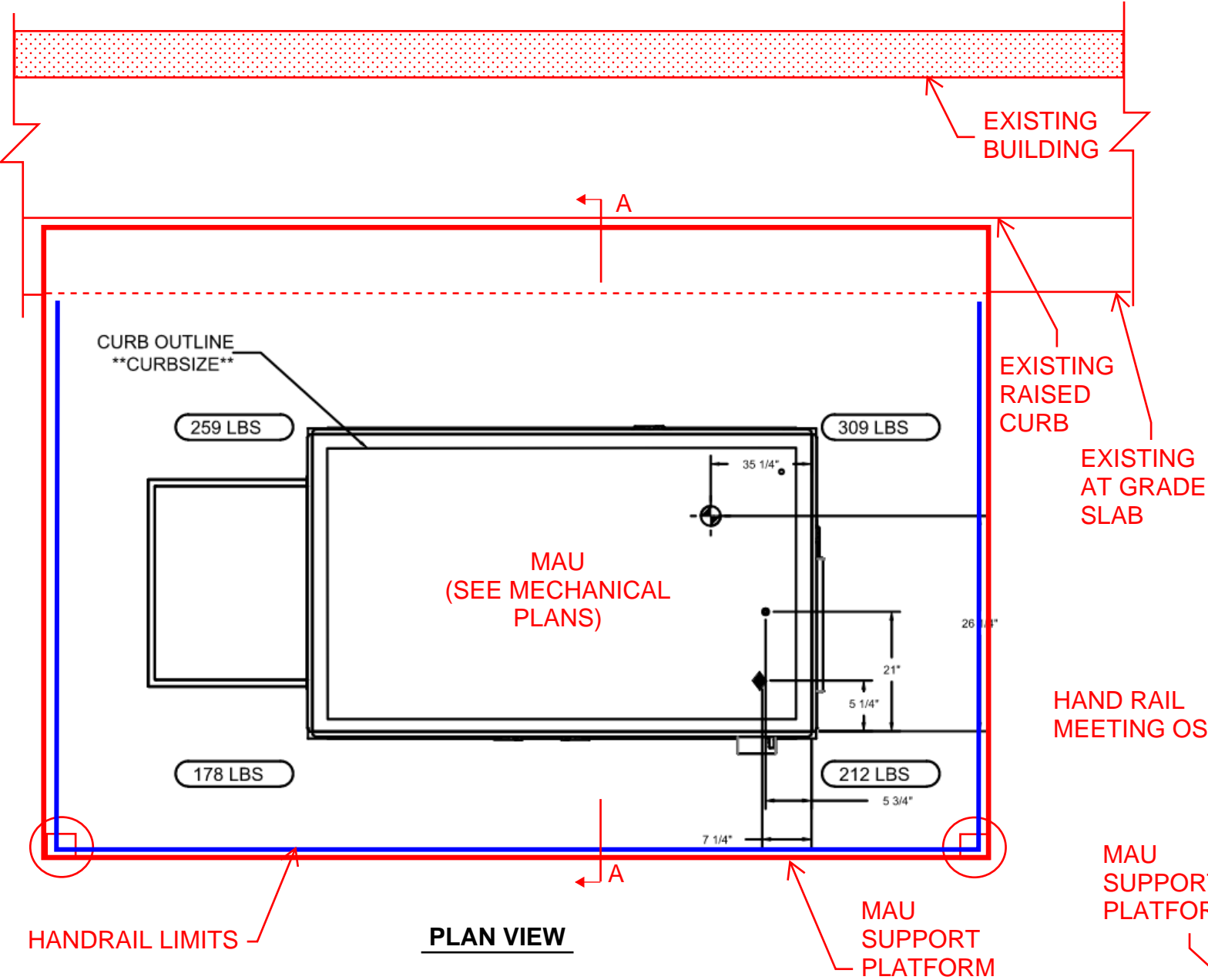
WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS

TOLL BOOTH SEALING DETAILS II

SHEET NUMBER: S-17


CONTRACT: 2025.15

20 OF 41



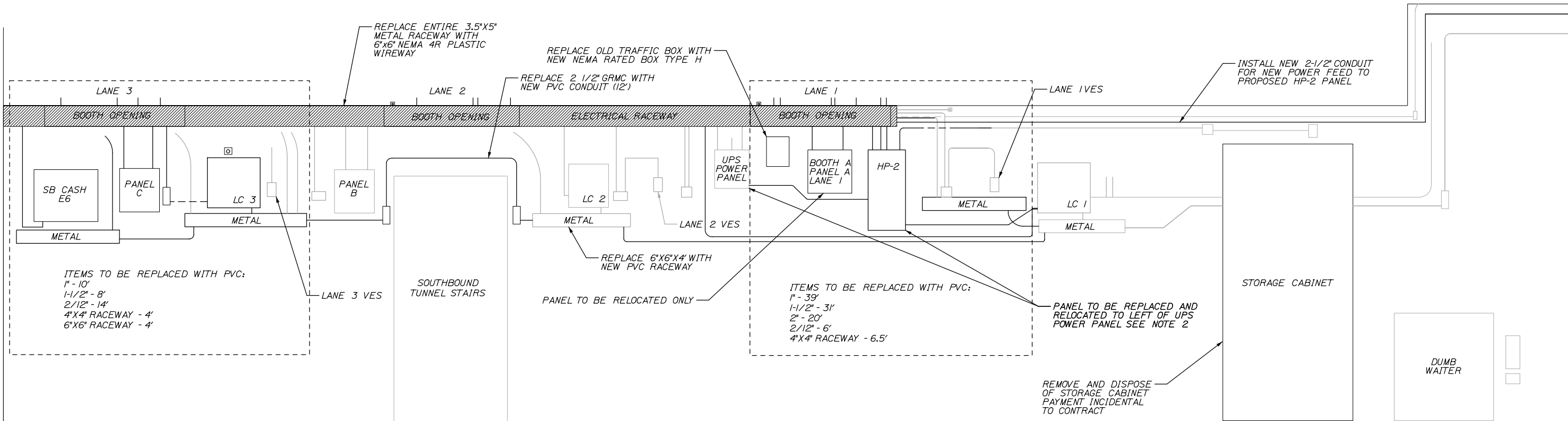
NOTES:

1. MAU SUPPORT PLATFORM SHALL BE MODULAR AND CAPABLE OF SUPPORTING 2500 LB MAU UNIT AND 60 PSF LIVE LOAD. PLATFORM SHALL INCLUDE HANDRAIL SYSTEM MEETING OSHA REQUIREMENTS.
2. CONTRACTOR SHALL DESIGN & SUBMIT SHOP DRAWINGS OF MODULAR SUPPORT SYSTEM TO THE RESIDENT FOR APPROVAL. CONTRACTOR IS RESPONSIBLE FOR TAKING FIELD MEASUREMENTS OF THE EXISTING BUILDING AND SLOPES TO PROPERLY SIZE AND DESIGN THE PLATFORM, ADJUSTABLE POSTS AND CONNECTIONS.
3. MODULAR SUPPORT PLATFORM SHALL BE SET LEVEL WITH ADJUSTABLE POSTS.
4. FOOTING SHALL BE PRECAST OR CAST IN PLACE CONCRTE, MINIMUM 3,000 PSI.

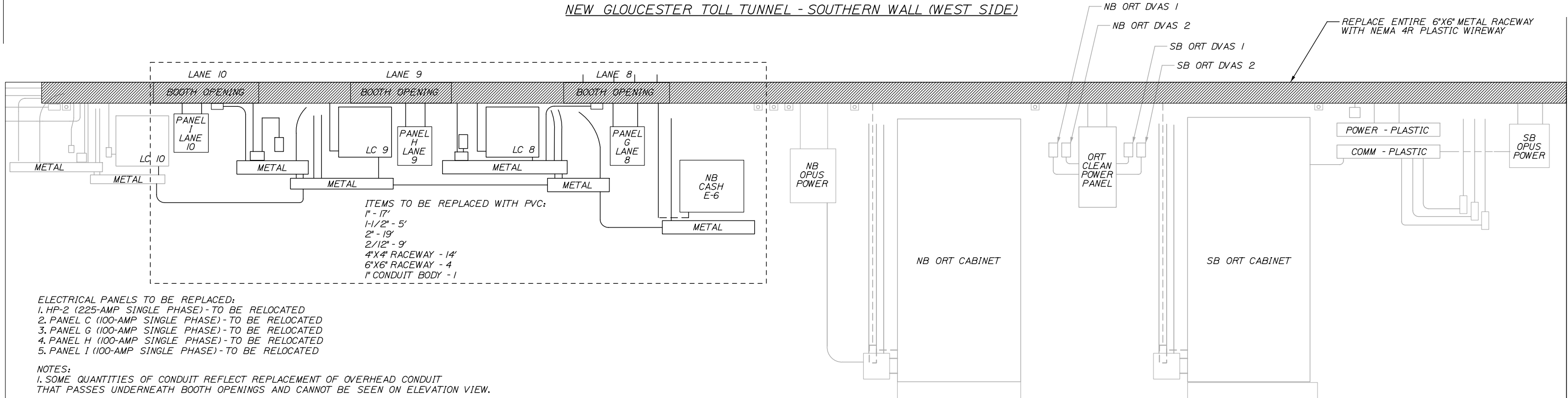
Scale: NOT TO SCALE				Designed by: HNTB				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909				<div>THE GOLD STAR MEMORIAL HIGHWAY</div>				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS MAU DUNNAGE AND SERVICE PLATFORM DETAILS			
No.	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										
												MTA PROJECT MANAGER: KRISTI VAN OUYEN, P.E.				CONTRACT:2025.15			
																SHEET NUMBER: S-18 21 OF 41			

Date: 9/30/2025

MATCH BELOW



NEW GLOUCESTER TOLL TUNNEL - SOUTHERN WALL (WEST SIDE)



- ELECTRICAL PANELS TO BE REPLACED:
1. HP-2 (225-AMP SINGLE PHASE) - TO BE RELOCATED
 2. PANEL C (100-AMP SINGLE PHASE) - TO BE RELOCATED
 3. PANEL G (100-AMP SINGLE PHASE) - TO BE RELOCATED
 4. PANEL H (100-AMP SINGLE PHASE) - TO BE RELOCATED
 5. PANEL I (100-AMP SINGLE PHASE) - TO BE RELOCATED

NOTES:

1. SOME QUANTITIES OF CONDUIT REFLECT REPLACEMENT OF OVERHEAD CONDUIT THAT PASSES UNDERNEATH BOOTH OPENINGS AND CANNOT BE SEEN ON ELEVATION VIEW.

2. EXISTING PANEL HP-2 SHALL REMAIN IN SERVICE UNTIL THE NEW PANEL HP-2 IS FULLY CUT OVER. EACH ASSOCIATED LANE ELECTRICAL PANEL, SERVING AS A SUB-PANEL TO HP-2, SHALL BE RECONNECTED TO THE NEW HP-2 AS ITS CORRESPONDING LANE IS TAKEN OUT OF SERVICE. INSTALLATION OF THE NEW BREAKER IN PANEL HP-1, (LOCATED IN THE MECHANICAL ROOM) TO SERVICE NEW HP-2 PANEL IN SERVICE TUNNEL SHALL BE INCIDENTAL TO THE PANEL REPLACEMENT.

NEW GLOUCESTER TOLL TUNNEL - SOUTHERN WALL (EAST SIDE)

Filename: NG_North_Wall.dgn

Scale:			
NOT TO SCALE			
No.	Revision	By	Date

Designed by:			
HNTB			
CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.			
	By	Date	
Designed	RBM	09/25	Checked RBM 09/25
Drawn	WWL	09/25	In Charge of TRC 09/25

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THE GOLD STAR
MEMORIAL HIGHWAY

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

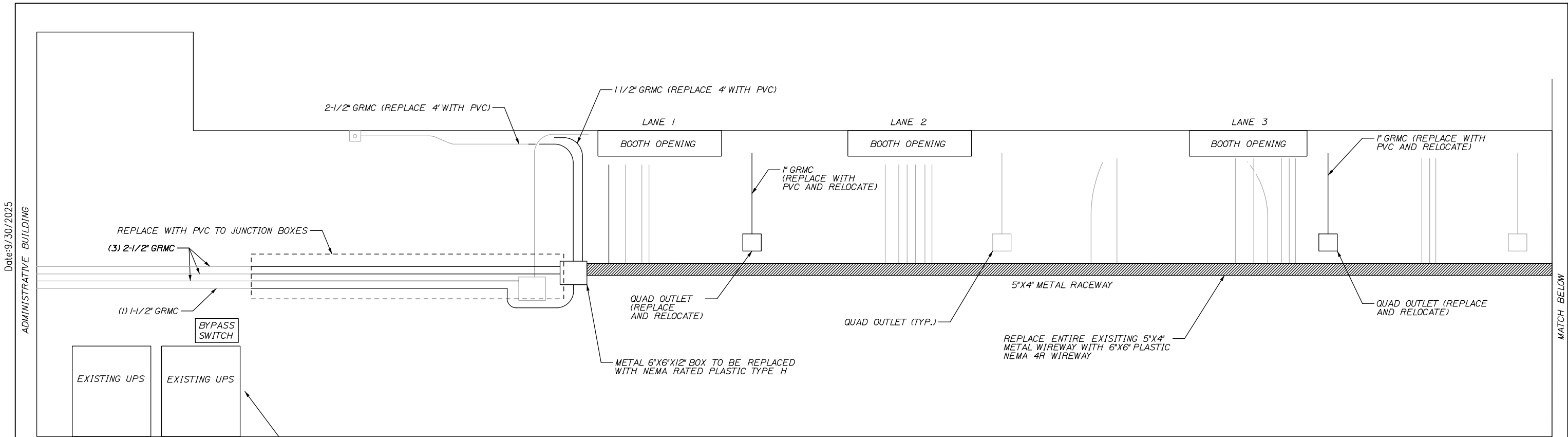
WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS

EXIST. ELECTRICAL REPLACEMENT LAYOUT

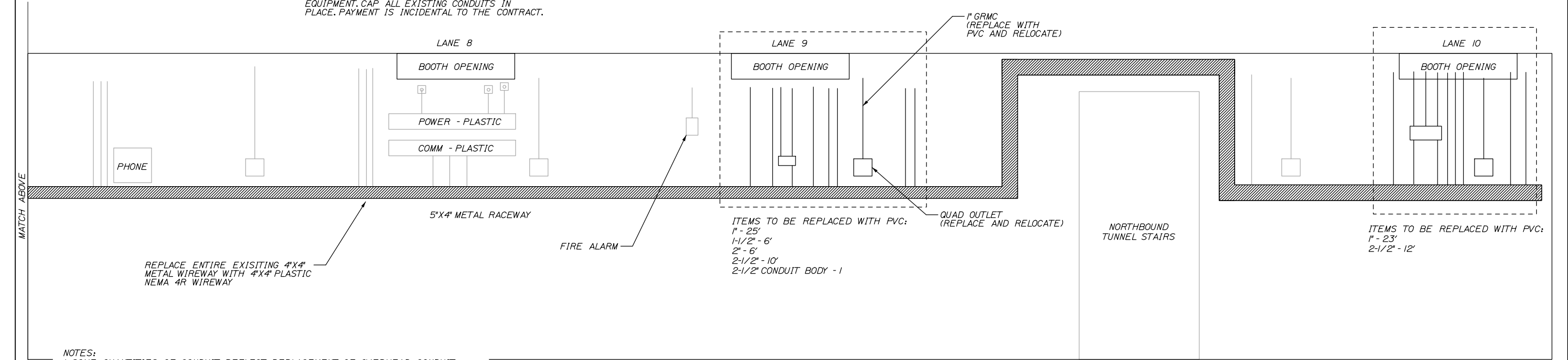
SHEET NUMBER: TE-01

CONTRACT: 2025.15

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NEW GLOUCESTER TOLL TUNNEL - NORTHERN WALL (WEST SIDE)



NEW GLOUCESTER TOLL TUNNEL - NORTHERN WALL (EAST SIDE)

- NOTES:
- 1. SOME QUANTITIES OF CONDUIT REFLECT REPLACEMENT OF OVERHEAD CONDUIT THAT PASSES UNDERNEATH BOOTH OPENINGS AND CANNOT BE SEEN ON PLAN VIEW.
 - 2. INSTALL THREE (3) CAT6 INTO EACH TOLL BOOTH IN LANES 1, 2, 9, AND 10. FROM EACH TOLL BOOTH, ROUTE TWO (2) CABLES TO THE EXISTING COMMUNICATION RACK AND ONE (1) CABLE TO THE EXISTING RADIO BASE LOCATION IN THE ADMINISTRATION BUILDING. PROVIDE 10 FEET OF SERVICE SLACK AT EACH END. TERMINATION TO BE PERFORMED BY MTA.

Scale:

NOT TO SCALE

No.	Revision	By	Date

Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.

	By	Date		By	Date
Designed	RBM	09/25	Checked	RBM	09/25
Drawn	WWL	09/25	In Charge of	TRC	09/25

HNTB CORPORATION
82 Running Hill Road, Suite 201
South Portland, ME 04106
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**THE GOLD STAR
MEMORIAL HIGHWAY**

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

WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS

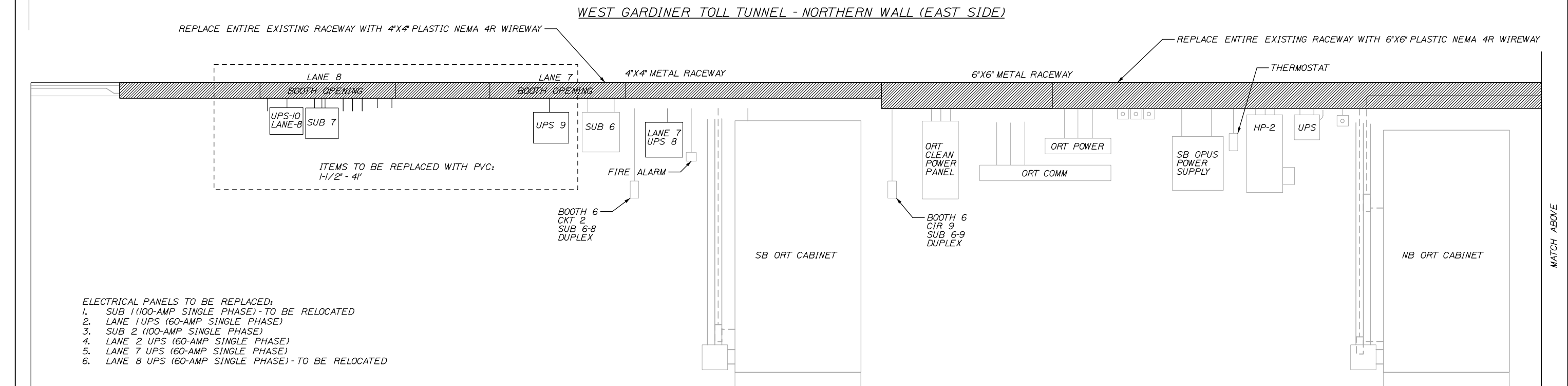
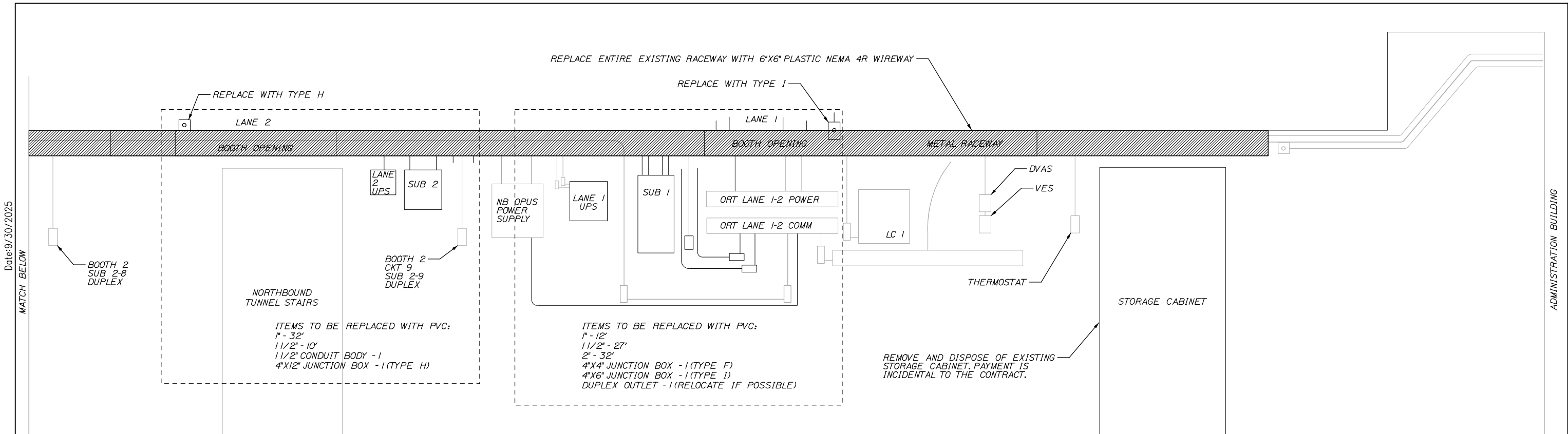
EXIST. ELECTRICAL REPLACEMENT LAYOUT

SHEET NUMBER: TE-02

CONTRACT:2025.15

23 OF 41

Filename: NG_South_Wall.dgn



NOTE: SOME QUANTITIES OF CONDUIT REFLECT REPLACEMENT OF OVERHEAD CONDUIT THAT PASSES UNDERNEATH BOOTH OPENINGS AND CANNOT BE SEEN ON PLAN VIEW.

WEST GARDINER TOLL TUNNEL - NORTHERN WALL (WEST SIDE)

Scale:

NOT TO SCALE

No.	Revision	By	Date


Designed by:

HNTB

CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.

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WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS

EXIST. ELECTRICAL REPLACEMENT LAYOUT

SHEET NUMBER: TE-03

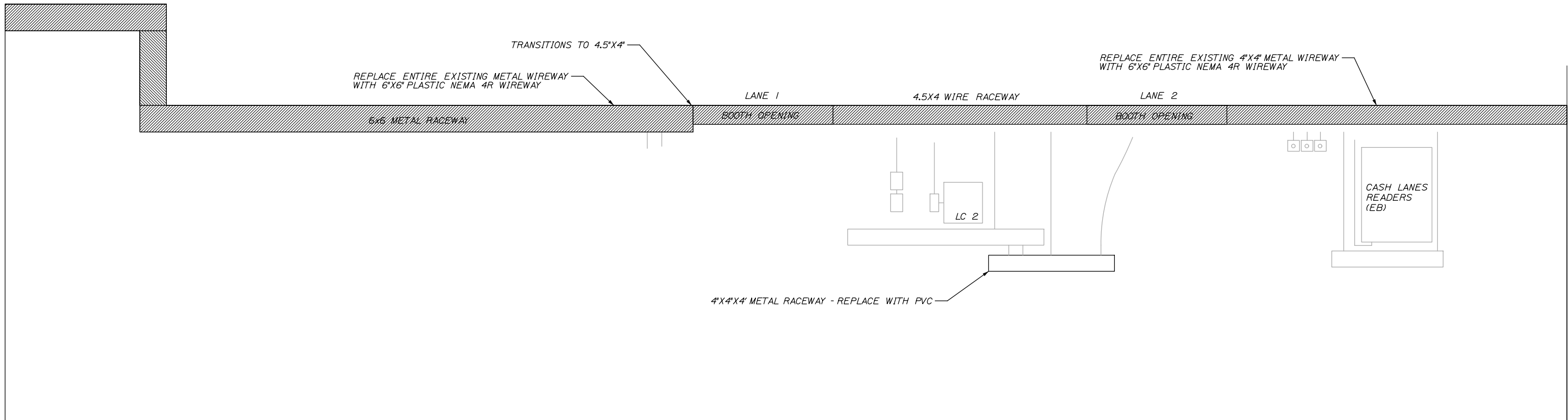
CONTRACT: 2025.15

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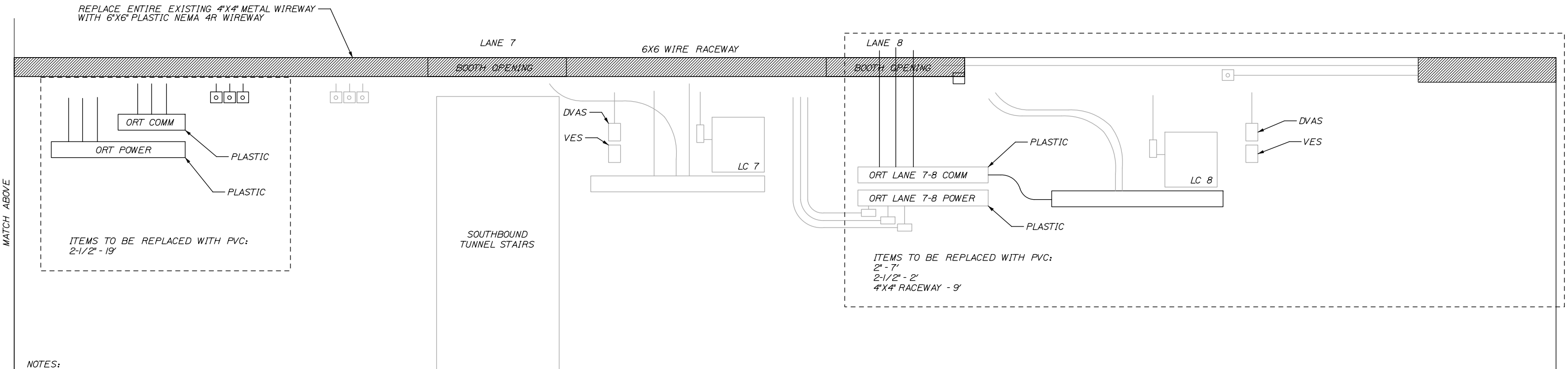
Filename: WG_North_Wall.dgn

Date:9/30/2025
ADMINISTRATION BUILDING

MATCH BELOW



WEST GARDINER TOLL TUNNEL - SOUTHERN WALL (EAST SIDE)




















NOTES:
1. SOME QUANTITIES OF CONDUIT REFLECT REPLACEMENT OF OVERHEAD CONDUIT THAT PASSES UNDERNEATH BOOTH OPENINGS AND CANNOT BE SEEN ON PLAN VIEW.

2. INSTALL THREE (3) CAT 6 INTO EACH TOLL BOOTH IN LANES 1, 2, 7, AND 8. FROM EACH TOLL BOOTH, ROUTE TWO (2) CABLES TO THE EXISTING COMMUNICATION RACK AND ONE (1) CABLE TO THE EXISTING RADIO BASE LOCATION IN THE ADMINISTRATION BUILDING. PROVIDE 10 FEET OF SERVICE SLACK AT EACH END. TERMINATION TO BE PERFORMED BY MTA.

WEST GARDINER TOLL TUNNEL - SOUTHERN WALL (WEST SIDE)

Filename: WG_South_Wall.dgn

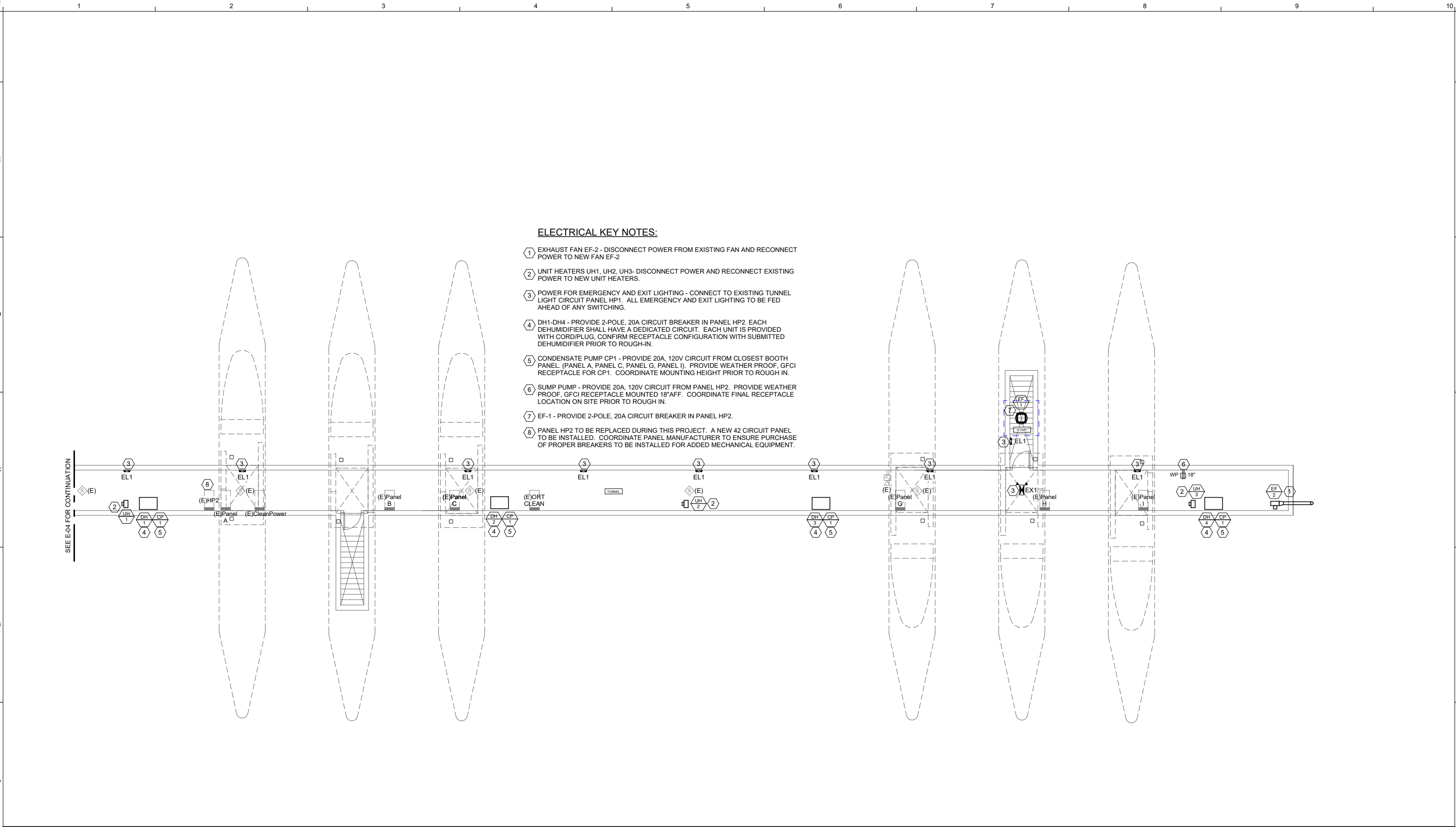
Scale: NOT TO SCALE				Designed by: HNTB				HNTB CORPORATION 82 Running Hill Road, Suite 201 South Portland, ME 04106 TEL (207) 774-5155 FAX (207) 228-0909				 THE GOLD STAR MEMORIAL HIGHWAY				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS EXIST. ELECTRICAL REPLACEMENT LAYOUT			
No.	Revision			By	Date			CONSULTANT PROJECT MANAGER: DALE MITCHELL, P.E.				MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.				SHEET NUMBER: TE-04			
								By	Date	Checked	By	Date	CONTRACT:2025.15						
								Designed	RBM	09/25	Checked	RBM	09/25	25 OF 41					
								Drawn	WWL	09/25	In Charge of	TRC	09/25						

1		2		3		4		5		6		7		8		9			
A	AMPERE	MC	MICROPHONE	1. REFER TO FLOOR PLANS FOR SCOPE OF WORK AREA. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ABOUT ELECTRICAL DEMOLITION SCOPE OF WORK AS RELATED TO THEIR RESPECTIVE SYSTEMS.															
AC	ALTERNATING CURRENT	MW	MICROWAVE	2. DASHED LINES REPRESENT WALLS SCHEDULED FOR REMOVAL; SOLID LINES REPRESENT WALLS REMAINING OR NEW WALLS.															
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUG ONLY	3. REFER TO LEGEND FOR DEFINITION OF (E), (R), (ER) AND (RL) TAGS.															
AFG	ABOVE FINISHED GRADE	MT	MOUNT	4. REFER TO NEW CONDITIONS PLANS FOR PROPOSED LOCATIONS OF ANY DEVICES/EQUIPMENT SCHEDULE FOR RELOCATION. PROVIDE REQUIRED SUPPORT COMPONENTS FOR INSTALLATION AT NEW LOCATION. EXTEND CONDUIT AND WIRE FROM EXISTING SOURCE OR LAST MAINTAINED ACTIVE DEVICE TO THE NEW LOCATION AND RE-TERMINATE TO DEVICE/EQUIPMENT.															
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH	5. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES/EQUIPMENT LOCATED ON WALLS SCHEDULED FOR REMOVAL (E.G. LIGHTING, RECEPTACLES, CONTROL DEVICES, SWITCHES, POWER DISTRIBUTION EQUIPMENT, FIRE ALARM DEVICES, COMMUNICATION AND DATA DEVICES, ETC.) UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.															
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CONTROL PANEL	6. DISCONNECT AND REMOVE ALL WIRING FOR EQUIPMENT, SCHEDULED TO BE REMOVED, BACK TO THE POINT OF CONNECTION OR THE NEXT ACTIVE DEVICE SCHEDULED TO REMAIN. NOTHING SHALL BE ABANDONED IN PLACE.															
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE	7. VERIFY ALL EXISTING SOURCES OF POWER TO DEVICES/EQUIPMENT PRIOR TO FINAL REMOVAL.															
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL	8. COORDINATE ALL SHUTDOWN PROCEDURES WITH THE OWNER PRIOR TO DISCONNECTING ANY CIRCUITS.															
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM	9. ALL DEVICES/EQUIPMENT LOCATED ON WALLS SCHEDULED TO REMAIN SHALL BE MAINTAINED; RECIRCUIT THESE DEVICES/EQUIPMENT AS NECESSARY.															
BKBD	BACKBOARD	N	NEUTRAL	10. WHERE ANY WALL OR SYSTEM COMPONENT REMOVALS IMPACT WIRING TO EXISTING DEVICES/EQUIPMENT SCHEDULED TO REMAIN, PROVIDE WIRING AND CONNECTIONS AS REQUIRED TO RE-FEED THESE DEVICES/EQUIPMENT.															
C	CONDUIT	NC	NORMALLY CLOSED	11. PROVIDE BLANK COVER PLATES FOR REMOVED POWER AND COMMUNICATIONS OUTLETS IN EXISTING WALLS THAT ARE SCHEDULED TO REMAIN.															
CAT	CATALOG, CATEGORY	NEC	NATIONAL ELECTRICAL CODE	12. THE WORK INCLUDES DISPOSAL OF ALL REMOVED ELECTRICAL DEVICES/EQUIPMENT/CONDUIT/WIRING/BOXES INCLUDING BALLASTS, DRIVERS, LAMPS, THERMOSTATS, ETC. LEGALLY DISPOSE OF ALL HAZARDOUS MATERIALS. COORDINATE WITH THE OWNER TO RECEIVE DIRECTION FOR ANY REMOVED DEVICES/EQUIPMENT THAT THE OWNER WOULD LIKE TO RETAIN; CAREFULLY DISCONNECT AND REMOVED THEM THEN RELOCATE THEM TO A LOCATION ON SITE DESIGNATED BY THE OWNER.															
CATV	CABLE TV	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	13. THE ELECTRICAL DEMOLITION FLOOR PLANS REPRESENT THE GENERAL SCOPE AND ARE NOT INTENDED TO SHOW ALL EXISTING EQUIPMENT, WIRING, CONDUITS, BOXES, DEVICES, OR FIXTURES. SURVEY THE WORK AREA AND VERIFY/IDENTIFY IN FIELD ALL DEVICES/EQUIPMENT AND RELATED COMPONENTS PLANNED FOR REMOVAL. COORDINATE WITH OWNER, ARCHITECT OR ENGINEER FOR DEMOLITION SCOPE CLARIFICATION AS NEEDED PRIOR TO REMOVING ITEMS IN QUESTION.															
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	14. COORDINATE, IN FIELD, WITH OTHER TRADES AND THEIR SYSTEM COMPONENTS SCHEDULED FOR REMOVAL TO ENSURE ANY RELATED POWER HAS BEEN PROPERLY DISCONNECTED, REMOVED AND MADE SAFE PRIOR TO THEIR RELATED DEMOLITION SCOPE.															
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT	15. LIGHTING REMOVALS INCLUDE, BUT ARE NOT LIMITED TO INTERIOR LINEAR FIXTURES AND EXTERIOR WALL MOUNTED FIXTURES AS WELL AS THEIR RELATED CONTROL DEVICES AND WIRING.															
CM	CIRCULAR MILS	NF	NON-FUSED	16. PROVIDE UPDATED PANEL DIRECTORIES INDICATING NEW LOADS AND SPARES FOR LOADS THAT HAVE BEEN REMOVED. TURN TO THE OFF POSITION ANY CIRCUIT BREAKERS THAT ARE NOT CONNECTED TO A LOAD. PROVIDE PLUGS IN EXISTING PANEL ENCLOSURES WHERE OPENINGS HAVE BEEN LEFT DUE TO REMOVED CONDUITS OR WRING AND PROVIDE BLANKING PLATES IN PANELS WHERE BREAKERS HAVE BEEN REMOVED OR DO NOT EXIST.															
COMM	COMMUNICATIONS	NO	NORMALLY OPEN	D3		ELECTRICAL REMOVALS NOTES						D7		ELECTRICAL GENERAL NOTES					
CU	MECH CONDENSING UNIT	NO., #	NUMBER																
CU	COPPER	NTS	NOT TO SCALE																
CUH	CABINET UNIT HEATER	OC	ON CENTER																
CR	CORD REEL																		
DC	DIRECT CURRENT	OCC	OCCUPANCY																
DDC	DIGITAL DIRECT CONTROL	OH	OVERHEAD																
DN	DOWN	P	POLE																
DW	DISHWASHER	PA	PUBLIC ADDRESS																
DWG	DRAWING	PB	PULLBOX																
EF	EXHAUST FAN	PH, Ø	PHASE																
ELEV	ELEVATOR	PIR	PASSIVE INFRARED																
EMT	ELECTRICAL METALLIC TUBING	PNL	PANELBOARD																
EP	EXPLOSION PROOF	P/O	PART OF																
ERU	ENERGY RECOVERY UNIT	PV	PHOTOVOLTAIC																
EWC	ELECTRIC WATER COOLER	PVC	POLY-VINYL CHLORIDE																
FACP	FIRE ALARM CONTROL PANEL	REC	RECEPTACLE																
FB	FLOOR BOX	REF	REFRIGERATOR																
FLA	FULL LOAD AMPS	RF	RETURN FAN																
FWE	FURNISHED WITH EQUIPMENT	RGS	RIGID GALVANIZED STEEL																
G, GND	GROUND	RM	ROOM																
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RMC	RIGID METAL CONDUIT																
GFP	GROUND FAULT PROTECTION	RTU	ROOFTOP UNIT																
HID	HIGH INTENSITY DISCHARGE	REF	REFRIGERATOR																
HOA	HAND-OFF-AUTO SELECTOR SWITCH	SF	SUPPLY FAN																
HP	HORSEPOWER	SPDT	SINGLE POLE, DOUBLE THROW																
HVAC	HEATING, VENTILATION AND COOLING UNIT	SQ	SQUARE																
IDS	INTRUSION DETECTION SYSTEM	TEL	TELEPHONE																
IG	ISOLATED GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR																
IMC	INTERMEDIATE METAL CONDUIT	TYP	TYPICAL																
IR	INFRARED	UF	UNDER FLOOR																
K	KILO	UG	UNDERGROUND																
KCMIL	KILO CIRCULAR MILS	UH	UNIT HEATER																
KW	KILOWATT	UL	UNDERWRITER'S LABORATORY																
KVA	KILO VOLT-AMPS	UNO	UNLESS NOTED OTHERWISE																
LAN	LOCAL AREA NETWORK	UPS	UNINTERRUPTIBLE POWER SUPPLY																
LC	LIGHTING CONTACTOR	V	VOLTS																
LF	LINEAR FEET	VFD	VARIABLE FREQUENCY DRIVE																
LC	LOADCENTER	W	WATT																
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF																
LED	LIGHT EMITTING DIODE	WG	WIREGUARD																
LTG	LIGHTING	XFMR	TRANSFORMER																
LTS	LIGHTS																		
MAX	MAXIMUM	(E)	EXISTING ITEM TO REMAIN																
MCB	MAIN CIRCUIT BREAKER	(R)	REMOVE ITEM AND DISPOSE OF PROPERLY																
MECH	MECHANICAL	(ER)	RELOCATED ITEM AT NEW LOCATION																
MH	MOUNTING HEIGHT	(RL)	REMOVE AND RELOCATE																
						PANELBOARD ~ FLUSH MOUNTED								PANELBOARD ~ SURFACE MOUNTED					
						DISCONNECT SWITCH													
						CABLE TRAY													
						MOTOR OR FAN													
						JUNCTION BOX, CEILING OR WALL MOUNTED. MAKE CONNECTION TO RESPECTIVE EQUIPMENT. COORDINATE EXACT TERMINATION POINT IN FIELD OR THROUGH APPROVED SUBMITTALS.													
						TRANSFORMER ~ SEE TRANSFORMER SCHEDULE													
						INDICATES DEDICATED CIRCUIT OR HOMERUN BACK TO RESPECTIVE PANEL ~ (2)#12+(1)#12G UNO. REFER TO EQUIPMENT SCHEDULES AND PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.													
						DIVIDED POWER POLE FOR SYSTEM FURNITURE POWER AND DATA WIRING													
						MOTORIZED DOOR OPERATOR AND PUSH PADDLE ~ FURNISHED BY DIVISION 08, WIRED BY DIVISION 26													
						ENCLOSED CIRCUIT BREAKER													
						AUTOMATIC TRANSFER SWITCH													
						#VID SF-- SYSTEMS FURNITURE FEED WITH WHIPS, WALL MOUNT OR MOUNTED AT POWER POLE WHERE INDICATED ~ PROVIDE SINGLE GANG JUNCTION BOX 18" AFF FOR POWER; PROVIDE DOUBLE GANG JUNCTION BOX 18" AFF WITH EMPTY 1" CONDUIT WITH PULLSTRINGS FOR VOICEDATA CABLING UP TO 6" ABOVE NEAREST ACCESSIBLE CEILING													
						TRIPLE SWITCH FOR MANUAL TRANSFER FROM PERMANENT GENERATOR TO TEMPORARY ROLL-UP GENERATOR WITH CONNECTION (CAM-LOK) PROVISIONS FOR ROLL-UP UNIT (ESL OR EQUAL)													
						IN-GRADE PULL HOLE, REFER TO PLANS FOR REQUIRED SIZE													
						MOTOR RATED SWITCH WITH THERMAL OVERLOAD PROTECTION													

1	2	3	4	5	6	7	8	9	10	
PROJECT NOTES		INSTALLATION COORDINATION NOTES			WIRING NOTES		SYSTEM POWER WIRING NOTES			
<p>1. THE SCOPE OF WORK SHALL INCLUDE PROVIDING ALL WORK INDICATED UNLESS OTHERWISE SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS, AND COORDINATION WITH ALL TRADES SCOPE OF WORK AS INDICATED ON THE CONTRACT DOCUMENTS INCLUDING BOTH THE DRAWINGS AND THE SPECIFICATIONS, WHICH ARE COMPLEMENTARY. WORK REQUIREMENTS INDICATED IN ANY CONTRACT DOCUMENT SHALL BE CONSIDERED PART OF THE SCOPE OF WORK, UNLESS SPECIFICALLY INDICATED AS EXISTING OR WORK BY OTHERS.</p> <p>2. IN GENERAL, WORK REQUIREMENTS ARE NOT INDICATED IN BOTH DOCUMENTS, WHERE DOCUMENTS CONFLICT WITHIN THEMSELVES OR WITH CODES AND REGULATIONS, PROVIDE THE HIGHER QUANTITY AND QUALITY AND FOLLOW THE STRICTER REQUIREMENTS.</p> <p>3. WORK AT A MINIMUM SHALL BE IN ACCORDANCE WITH OSHA, NFPA STANDARDS, THE ELECTRICAL CODE AND THE LOCAL GOVERNING AUTHORITIES. THE DRAWINGS AND SPECIFICATIONS DO NOT ATTEMPT TO INDICATE ALL WORK REQUIRED BY CODE AND AUTHORITIES. DO NOT INSTALL WORK THAT DOES NOT MEET THE MINIMUM REQUIREMENTS. IF NECESSARY, REQUEST CLARIFICATION FROM ARCHITECT AND ENGINEER BEFORE PROCEEDING.</p> <p>4. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER. RECTILINEAR TO BUILDING STRUCTURE.</p> <p>5. ALL COMPONENTS SHOWN ON THE RISER DIAGRAMS OR DETAILS, BUT NOT ON THE PLAN OR VICE VERSA SHALL BE INCLUDED AS IF SHOWN ON BOTH.</p> <p>6. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE A WORKING INSTALLATION IN EVERY DETAIL AND ALL ITEMS REQUIRED FOR SUCH AN INSTALLATION SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY INDICATED OR MENTIONED.</p> <p>7. VISIT THE SITE TO DETERMINE PRE-EXISTING CONDITIONS AND WORK NECESSARY PRIOR TO SUBMISSION OF BID PRICE. SUBMIT ANY QUESTIONS REQUIRED TO CLARIFY SCOPE PRIOR TO BID. INCLUDE ALL REQUIRED WORK IN BID PRICE.</p> <p>8. INCLUDE IN BID WHATEVER IS REQUIRED TO MEET SCHEDULE INCLUDING OVERTIME, EXPRESS SHIPPING, EXPEDITING EQUIPMENT, ETC. PLAN FOR PROJECT AND SUBMIT SHOP DRAWING AND ORDER EQUIPMENT IN A TIMELY MANNER; EQUIPMENT SHALL BE BASED ON THE SPECIFIED EQUIPMENT.</p> <p>9. ANY EQUIPMENT TO BE SUBSTITUTED SHALL BE IDENTIFIED AT THE TIME OF BID. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBSTITUTIONS.</p> <p>10. ALL ELECTRICAL DEVICES, WHEN INSTALLED, SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. COVER PLATES SHALL BE INSTALLED AFTER FINISH MATERIALS HAVE BEEN APPLIED.</p> <p>11. TEST ALL EQUIPMENT AND SYSTEMS INSTALLED TO CERTIFY COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, CODES, LOCAL AUTHORITIES AND REGULATIONS. INCLUDE LABOR AND COSTS FOR TESTING, REVIEWS, COMMISSIONING, APPROVALS AND CERTIFICATIONS.</p> <p>12. PROVIDE TRAINING TO OWNER ON ALL EQUIPMENT AND SYSTEMS INSTALLED.</p> <p>13. TEMPORARY LIGHTING AND POWER SHALL BE PROVIDED AS REQUIRED BY OSHA, CODES AND LOCAL AUTHORITIES. REMOVE ALL TEMPORARY FACILITIES PROVIDED AT PROJECT COMPLETION.</p>		<p>1. PRIOR TO ROUGH-IN OF ELECTRICAL PROVISIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT PROVIDED BY OTHER TRADES, COORDINATE WITH THE GENERAL CONTRACTOR, EQUIPMENT SHOP DRAWINGS AND APPLICABLE EQUIPMENT INSTALLER FOR EXACT LOCATION AND WIRING REQUIREMENTS. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND ACCESSORIES FOR A COMPLETE INSTALLATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED, I.E. POWER, CONTROL, INTERLOCK, ETC.</p> <p>2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.</p> <p>3. ELECTRICAL EQUIPMENT, RACEWAYS AND OUTLETS MOUNTED TO AND OR INSTALLED IN OWNER FURNISHED FURNITURE SHALL BE COORDINATED WITH THE EQUIPMENT AND FURNITURE INSTALLERS AND THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN. EXCEPT WHERE INDICATED OR REQUIRED OTHERWISE.</p> <p>4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.</p> <p>5. IF EXACT LOCATION, MOUNTING OR RACEWAY ROUTING ARE NOT INDICATED OR ARE NOT CLEAR OR CONFLICT (LOCATION OR HEIGHT) COORDINATE WITH OTHER TRADES AND REQUEST CLARIFICATION PRIOR TO ROUGH-IN OR INSTALLATION. DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION, MOUNTING HEIGHTS OR EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED WITH THE EQUIPMENT REQUIREMENTS AND FIELD CONDITIONS.</p> <p>6. WHERE LOADS ARE ADDED TO EXISTING BRANCH CIRCUITS, VERIFY THAT THE EXISTING CIRCUITS HAVE ADEQUATE CAPACITY TO SUPPORT THE ADDITIONAL LOAD WITHOUT EXCEEDING SPECIFIED MAXIMUM LOAD.</p> <p>7. UNLESS OTHERWISE DIRECTED, PROVIDE ALL NEW POWER DISTRIBUTION EQUIPMENT WITH AIC RATINGS THAT MATCH OR EXCEED THE AIC RATING OF THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICE SERVING THE PANEL WHEN SERVED DIRECTLY BY ITS SOURCE (E.G. NO TRANSFORMER) OR PROVIDE AIC RATING THAT EXCEEDS BY 10% THE MAXIMUM LET THROUGH FAULT CURRENT (UNDER INFINITE PRIMARY BUSS) OF THE NEXT ACTIVE UPSTREAM TRANSFORMER (EXISTING OR NEW) SERVING THE RESPECTIVE PANEL.</p> <p>8. ALL NEW PANELS SHALL BE FULLY RATED FOR THE DESIGNATED AIC VALUE; PANELS UTILIZING SERIES RATINGS WILL NOT BE ACCEPTABLE. NEW CIRCUIT BREAKERS PROVIDED IN EXISTING PANELS SHALL BE PROVIDED WITH AIC RATINGS THAT MATCH OR EXCEED THE HIGHEST RATED OVER-CURRENT PROTECTIVE DEVICE WITHIN THE RESPECTIVE EXISTING PANEL.</p> <p>9. SUBMIT SHORT CIRCUIT STUDY WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. IN THE STUDY DEMONSTRATE THAT THE AIC RATING SELECTIONS ARE PROPERLY INTEGRATED AND COORDINATED WITH THE EXISTING AND NEW POWER DISTRIBUTION EQUIPMENT. CONFIRM THAT THE AIC RATING SELECTIONS HAVE INCORPORATED THE AVAILABLE FAULT DUTY VALUES OBTAINED FROM THE UTILITY COMPANY FOR THE PROJECTS ELECTRICAL SERVICE POINT OF COMMON COUPLING.</p> <p>10. SUBMIT OVER-CURRENT PROTECTIVE DEVICE COORDINATION STUDY, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH THE POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL. INCLUDE THE NEXT ACTIVE EXISTING UPSTREAM OVER-CURRENT PROTECTIVE DEVICES, IN THE STUDY ANALYSIS, WHEN PROJECT IS WITHIN AN EXISTING FACILITY.</p> <p>11. SUBMIT ARC FLASH REPORT, FOR ALL NEW POWER DISTRIBUTION EQUIPMENT, WITH POWER DISTRIBUTION EQUIPMENT SUBMITTALS FOR REVIEW AND APPROVAL.</p>			<p>1. UNLESS OTHERWISE INDICATED ON PLANS OR IN SPECIFICATIONS; ALL CONDUCTORS, POWER DISTRIBUTION EQUIPMENT BUSSING AND TRANSFORMER WINDINGS SHALL BE FABRICATED OF 98% CONDUCTIVE COPPER MATERIAL.</p> <p>2. WIRING IS INDICATED ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.</p> <p>3. BRANCH CIRCUIT WIRING NOT SHOWN. CIRCUITING SHALL IN ACCORDANCE WITH APPLICABLE CODES AND STANDARD PRACTICE. PROVIDE A 20A, 1P CIRCUIT BREAKER FOR EACH LIGHTING AND RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED OR NOTED. CONNECT NO MORE THAN SIX DUPLEX CONVENIENCE RECEPTACLES PER BRANCH CIRCUIT. CONNECTED LOAD ON LIGHTING CIRCUITS SHALL NOT EXCEED 12 AMPS.</p> <p>4. ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE. ALL EXPOSED WIRING INCLUDING THAT WHICH IS INSTALLED ABOVE BUT IS VISIBLE FROM BELOW, PARTIALLY OR FULLY OPEN CEILING, SHALL BE INSTALLED IN CONDUIT OR RACEWAYS. REFER TO SPECIFICATIONS FOR ACCEPTABLE WIRING METHODS.</p> <p>5. WIRING AND CONDUIT SHALL BE REQUIRED FOR ALL SWITCHES, AND OUTLETS INDICATED WITH CIRCUIT NUMBERS. PROVIDE ¾ CONDUIT, 3#12 UNLESS OTHERWISE INDICATED (1 PHASE, 1 NEUTRAL AND 1 GROUND). WIRE AND CONDUIT SIZES ON HOME RUNS SHALL BE CONTINUOUS THROUGHOUT CIRCUIT, REFER TO VOLTAGE DROP CHART ON SCHEDULE SHEET. ALTHOUGH ALL BRANCH CIRCUIT WIRE AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.</p> <p>6. RACEWAYS SHALL BE LIMITED TO SIX CURRENT CARRYING CONDUCTORS (PHASE AND NEUTRALS) AND GROUNDING CONDUCTOR. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH SINGLE-PHASE RECEPTACLE OR LIGHTING CIRCUIT. UNLESS OTHERWISE INDICATED OR IF AN OVERSIZED NEUTRAL IS SPECIFIED, CIRCUITS WITH SHARED NEUTRALS SHALL BE PROVIDED WITH CIRCUIT BREAKERS THAT HAVE A COMMON TRIP (E.G. FURNITURE WHIPS)</p> <p>7. MARK ALL CONDUITS AND JUNCTION BOXES WITH PERMANENT MARKER INDICATING PANEL AND CIRCUIT NUMBER OF CONDUCTORS CONTAINED WITHIN. LABEL WHERE CONDUITS ENTER PANELS, WIRE WAYS, PULL BOXES, ETC. LABEL EMPTY CONDUITS WITH SYSTEM (VOICE, DATA, SECURITY, ETC.) AND SOURCE OF CONDUIT.</p> <p>8. COORDINATE WITH OWNER TO DETERMINE WHICH RECEPTACLES AND ITEMS OF EQUIPMENT REQUIRE STANDBY GENERATOR POWER.</p> <p>9. ELECTRICAL WORK NOT SERVING STAIRWELLS SHALL NOT PASS THROUGH A STAIR ENCLOSURE UNLESS AN APPROVED RATED SOFFIT IS PROVIDED TO MAINTAIN FIRE AND SMOKE RATING.</p> <p>10. ALL RACEWAYS CROSSING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.</p> <p>11. PROVIDE WATERTIGHT AND GAS TIGHT SEALS INSIDE AND OUTSIDE OF CONDUITS THAT PENETRATE THE BUILDING BELOW GRADE. O.Z. GEDNEY OR APPROVED EQUAL. PROVIDE WEATHER TIGHT SEAL AT PENETRATIONS ABOVE GRADE.</p> <p>12. PROVIDE NRTL LISTED SMOKE AND FIRE SEALS AT ALL PENETRATIONS THROUGH FLOORS OR FULL HEIGHT (FLOOR TO FLOOR) WALLS.</p>		<p>1. ALL VIDEO PROJECTOR, CAMERA AND MONITOR POWER OUTLETS AND THEIR ASSOCIATED COMPUTER POWER OUTLETS FEEDING THE VIDEO SOURCE ARE TO BE CONNECTED TO THE SAME PHASE TO ELIMINATE THE POTENTIAL FOR VIDEO INTERFERENCE BETWEEN VIDEO SOURCE AND EQUIPMENT. COORDINATE ALL POWER WIRING FOR SYSTEM EQUIPMENT WITH THE SYSTEM INSTALLER PRIOR TO INSTALLATION</p> <p>RECEPTACLE COLOR CODE NOTES</p> <p>UNLESS OTHERWISE INDICATED PROVIDE 20A HEAVY DUTY GRADE RECEPTACLES WITH COLOR CODE AS FOLLOWS:</p> <p>1. ON GENERATOR POWER – RED 2. ON UPS POWER – BLUE 3. ISOLATED GROUND – ORANGE 4. ON NORMAL POWER – IVORY OR AS SELECTED BY ARCHITECT</p> <p>MOUNTING NOTES</p> <p>1. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.</p> <p>2. INSTALL ALL ELECTRICAL DEVICES (FIRE ALARM, SWITCHES, RECEPTACLES, WORK BOXES, JUNCTION BOXES, EXIT SIGNS, LUMINAIRES, ETC.) IN THE LOCATIONS IDENTIFIED OR DIMENSIONS ON THE ARCHITECTURAL PLANS, DETAILS, OR ELEVATIONS.</p> <p>3. IF THE DEVICE LOCATION IS NOT SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS, FOLLOW THE GUIDELINES LISTED BELOW:</p> <p>4. INSTALL NEARBY DEVICES ON ONE COMMON VERTICAL CENTERLINE</p> <p>5. INSTALL ADJACENT TO DEVICES LINED UP WITH A COMMON BOTTOM LINE.</p> <p>6. INSTALL DEVICES AT INDICATED HEIGHT AS APPLICABLE UNLESS OTHERWISE NOTED. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT AS INDICATED BY NOTE 7.</p> <p>7. ON MASONRY WALLS LINE UP THE BOTTOM OF THE DEVICE WITH A MASONRY JOINT AS CLOSE TO THE INDICATED HEIGHT AS PRACTICAL.</p> <p>8. INSTALL DEVICES IN SAME AREA AT THE SAME HEIGHT.</p> <p>9. MOUNT PANELS SIX FEET TO THE TOP OF THE PANEL OR ANNUNCIATOR/ FA GRAPHIC.</p> <p>10. MOUNT AT 8 FOOT TO BOTTOM FOR SIGNAGE, EMERGENCY LIGHTING, CLOCKS, SECURITY SENSORS, WALL MOUNTED OCCUPANCY SENSORS MODIFIED AS FOLLOWS: 4" FROM TOP OF DEVICE TO CEILING AND 4" ABOVE DOOR FRAMES.</p> <p>11. LOCATE CONTROL DEVISE AT LEAST 18' FROM AN INSIDE CORNER.</p> <p>12. SUPPORT WORK FROM THE BUILDING STRUCTURE.</p> <p>13. IN FINISHED AREAS ELECTRICAL WORK SHALL BE INSTALLED CONCEALED, RECESSED INTO WALLS OR INSTALLED ABOVE HUNG CEILINGS UNLESS OTHERWISE INDICATED.</p> <p>14. DO NOT INSTALL OUTLETS BACK TO BACK. PROVIDE 24" SPACING IN FIRE RATED WALLS.</p> <p>15. PROVIDE ELECTRICAL OUTLET PLATE GASKETS SEALS AT RECEPTACLES, SWITCHES AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.</p>			
C1		ELECTRICAL GENERAL NOTES								

C	THREE PHASE AND SINGLE PHASE CIRCUIT SCHEDULE NOTES		BRANCH CIRCUITS SCHEDULE		VOLTAGE DROP CHART		C
	1	UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CONDUCTORS AND RACEWAY WHERE INDICATED.	CIRCUIT BREAKER		CONDUCTOR		
	2	PROVIDE TYPE AND MINIMUM SIZE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATION OR ON THE DRAWINGS.	120 OR 277 VOLT, 1 PH., 2W CIRCUITS		MAXIMUM LOAD (VA)		
	3	PROVIDE NEUTRAL IN CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.	15A-1P, 20A-1P		MAXIMUM LENGTH PER CONDUCTOR SIZE		
	4	MINIMUM SIZE CONDUIT FOR SCHEDULE 80 OR EMT IS ONE STANDARD ELECTRICAL SIZE LARGER THAN INDICATED IN THE SCHEDULE. PROVIDE LARGER CONDUIT WHERE SPECIFICALLY INDICATED OTHERWISE. DO NOT INSTALL PVC...	30A-1P		#12		
	5	PROVIDE SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITH EACH FEEDER AND BRANCH CIRCUIT.	40A-1P		#10		
	6	PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTOR SAME SIZE AS THE EQUIPMENT GROUND, IN CIRCUITS TO ISOLATED GROUND PANELS OR DEVICES, GREEN WITH YELLOW STRIPE.	50A-1P		#8		
	7	FOR PANELS WITH 200% NEUTRAL PROVIDE 200% NEUTRAL USING TWO PHASE SIZED CONDUCTORS IF SIZE 1/0 OR LARGER, OTHERWISE PROVIDE (1) 3/0...	60A-1P		120 VOLT CIRCUITS		
	8	PROVIDE SEPARATE INDIVIDUAL NEUTRAL FOR ALL CIRCUITS EXCEPT LIGHTING CIRCUITS. PROVIDE A DEDICATED NEUTRAL FOR GFCI AND AFCI CIRCUITS.	208 OR 480 VOLT, 1PH., 2W CIRCUITS		800		
	9	CIRCUIT SIZING BASED ON 600 VOLT 90 DEGREE (C) RATED INSULATION. INTERIOR TYPE THHN/THWN OR XHHW-2 (LARGER THAN SIZE #6). FOR EXTERIOR OR BELOW GRADE UTILIZE RHW-2/USE-2 IN CONDUIT ONE SIZE LARGER. SIZING BASED ON 60 DEGREE (C) FOR AMPACITIES 100A OR LESS AND 75 DEGREE (C) AMPACITIES...	15A-2P, 20A-2P		1000		
	10	FOR SERVICE ENTRANCE CONDUCTORS IT IS NOT REQUIRED TO INSTALL THE GROUNDING CONDUCTOR. THE NEUTRAL CONDUCTOR IS FULL SIZED AND IS BONDED TO THE GROUNDING ELECTRODE CONDUCTOR AT THE TRANSFORMER AND THE SERVICE DISCONNECT.	30A-2P		1200		
	11	FOR BATTERY CABLES, INSTALL AND GROUP IN PAIRS (ONE POSITIVE AND ONE NEGATIVE CONDUCTOR). MARK POSITIVE CONDUCTOR WITH (5) OVERLAPPING WRAPS OF RED ELECTRICAL TAPE ON EACH END.	40A-2P		1400		
			50A-2P		1600		
			60A-2P		1800		
			208 OR 480 VOLT, 3PH., 3W CIRCUITS		2000		
			15A-3P, 20A-3P		2500		
			30A-3P		3000		
			40A-3P		3500		
			50A-3P		4000		
			60A-3P				
			BRANCH CIRCUIT SCHEDULE NOTES:				
			1. TYPE MC CABLE SHALL INCLUDE FULL SIZE INSULATED GROUND CONDUCTOR. SIZES AS INDICATED IN SCHEDULE.				
			2. WIRING BASED ON MAXIMUM FEEDER LENGTH OF 150 FEET FOR 120 VOLT CIRCUITS AND 300 FEET FOR 277 VOLT CIRCUITS.				
			3. UPGRADE WIRE AND CONDUIT SIZE AS REQUIRED TO ADDRESS VOLTAGE DROP.				

Scale:				Designed by:				<div><div>HNTB</div><div><div>Allied Engineering</div><div>A Salas O'Brien Company</div></div><div><div>160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266</div></div></div>				<div><div>MAINE TURNPIKE</div><div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div></div>				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS GENERAL NOTES AND SCHEDULES			
12" = 1'-0"																			
No.	Revision	By	Date													100% PS&E REVIEW SUBMISSION 10/03/2025 - NOT FOR CONSTRUCTION			
					By	Date		By	Date										
				Designed:	PMC	10/03/2025	Checked:	BTG	10/03/2025	AEI PRO.NO.:2461-66453 CAD FILE: 2461-66453.RVT									
				Drawn:	PMC	10/03/2025				MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.									
CONTRACT: 2025.15												SHEET NUMBER: E-02							
												027 OF 041							



ELECTRICAL KEY NOTES:

- 1 EXHAUST FAN EF-2 - DISCONNECT POWER FROM EXISTING FAN AND RECONNECT POWER TO NEW FAN EF-2
- 2 UNIT HEATERS UH1, UH2, UH3- DISCONNECT POWER AND RECONNECT EXISTING POWER TO NEW UNIT HEATERS.
- 3 POWER FOR EMERGENCY AND EXIT LIGHTING - CONNECT TO EXISTING TUNNEL LIGHT CIRCUIT PANEL HP1. ALL EMERGENCY AND EXIT LIGHTING TO BE FED AHEAD OF ANY SWITCHING.
- 4 DH1-DH4 - PROVIDE 2-POLE, 20A CIRCUIT BREAKER IN PANEL HP2. EACH DEHUMIDIFIER SHALL HAVE A DEDICATED CIRCUIT. EACH UNIT IS PROVIDED WITH CORD/PLUG, CONFIRM RECEPTACLE CONFIGURATION WITH SUBMITTED DEHUMIDIFIER PRIOR TO ROUGH-IN.
- 5 CONDENSATE PUMP CP1 - PROVIDE 20A, 120V CIRCUIT FROM CLOSEST BOOTH PANEL- (PANEL A, PANEL C, PANEL G, PANEL I). PROVIDE WEATHER PROOF, GFCI RECEPTACLE FOR CP1. COORDINATE MOUNTING HEIGHT PRIOR TO ROUGH IN.
- 6 SUMP PUMP - PROVIDE 20A, 120V CIRCUIT FROM PANEL HP2. PROVIDE WEATHER PROOF, GFCI RECEPTACLE MOUNTED 18" AFF. COORDINATE FINAL RECEPTACLE LOCATION ON SITE PRIOR TO ROUGH IN.
- 7 EF-1 - PROVIDE 2-POLE, 20A CIRCUIT BREAKER IN PANEL HP2.
- 8 PANEL HP2 TO BE REPLACED DURING THIS PROJECT. A NEW 42 CIRCUIT PANEL TO BE INSTALLED. COORDINATE PANEL MANUFACTURER TO ENSURE PURCHASE OF PROPER BREAKERS TO BE INSTALLED FOR ADDED MECHANICAL EQUIPMENT.

A1

NEW GLOUCESTER - TUNNEL PLAN - POWER

1/8" = 1'-0"

Scale:

1/8" = 1'-0"

Designed by:

100% PS&E REVIEW SUBMISSION 10/03/2025
- NOT FOR CONSTRUCTION

No.	Revision	By	Date

By	Date	By	Date
PMC	10/03/2025	BTG	10/03/2025
PMC	10/03/2025		

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MAINE
TURNPIKE

★

THE GOLD STAR
MEMORIAL HIGHWAY

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

WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS
NEW GLOUCESTER ELECTRICAL TUNNEL PLAN

CONTRACT: 2025.15

SHEET NUMBER: E-03
028 OF 041

[illegible]

Existing Panelboard: WEST GARDINER

(E)HP2

Location:

Supply From:

Mounting: Surface

Volts: 120/240 Single

Phases: 1

Wires: 3

A.I.C. Rating: EXISTING

Mains Type:

Bus Rating: 225 A

MCB Rating:

CKT	Circuit Description	Trip Amps	Poles	A (kVA)		B (kVA)		Poles	Trip Amps	Circuit Description	CKT
1	SUB 1 - Existing to Remain	50	2	0	0	0	0	2	50	SUB 2- Existing to Remain	2
3				0	0	0	0				4
5				0	0	0	0				6
7				0	0	0	0				8
9	Spare	50	2	0	0	0	0	2	50	SUB 6- Existing to Remain	10
11				0	0	0	0				12
13				0	0	0	0				14
15				0	0	0	0				16
17	EXISTING TUNNEL RECEPTS	20	1	0	0	0	0	1	20	AVI- Existing to Remain	18
19	EXISTING TUNNEL LIGHTS	20	1	0	0	0	0	1	20	AVI- Existing to Remain	20
21	EXISTING TUNNEL HEAT	20	1	0	--	0	--	1	--	Space	22
23	TUNNEL FAN- Existing to Remain	20	2	0	--	0	--	1	--	Space	24
25				0	--	0	--				26
27				0	--	0	--				28
29				0	--	0	--				30
Total Load:				0.0 kVA		0.0 kVA					
Total Amp:				0 A		0 A					

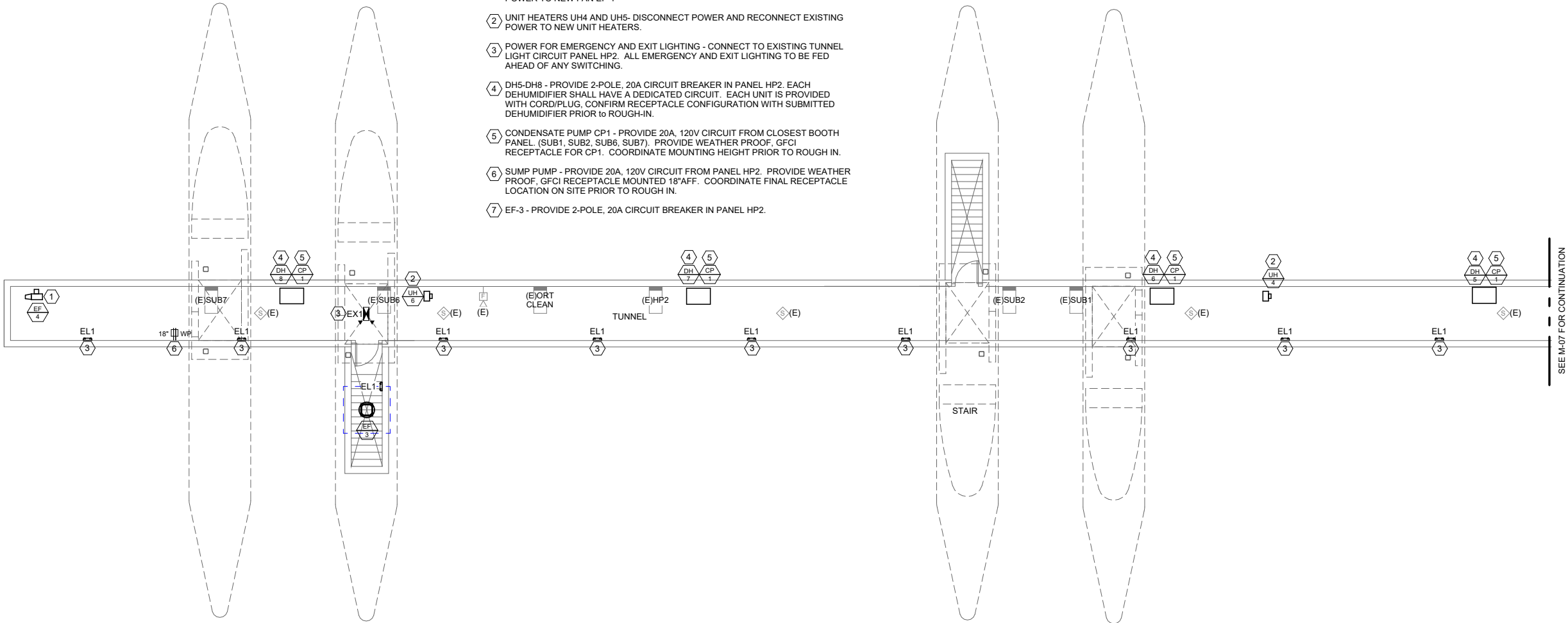
Notes:

EXISTING PANEL:

CIRCUIT BREAKERS IN BOLD ARE EXISTING UTILIZED CIRCUITS THAT SHALL REMAIN.

CIRCUIT BREAKERS/SPACES IN ITALICS ARE CURENTLY OFF AND NOT BEING UTILIZED. THESE SPACES SHALL BE USED FOR NEW MECHANICAL EQUIPMENT CIRCUITS.

- ELECTRICAL KEY NOTES:
- EXHAUST FAN EF-4 - DISCONNECT POWER FROM EXISTING FAN AND RECONNECT POWER TO NEW FAN EF-4
 - UNIT HEATERS UH4 AND UH5- DISCONNECT POWER AND RECONNECT EXISTING POWER TO NEW UNIT HEATERS.
 - POWER FOR EMERGENCY AND EXIT LIGHTING - CONNECT TO EXISTING TUNNEL LIGHT CIRCUIT PANEL HP2. ALL EMERGENCY AND EXIT LIGHTING TO BE FED AHEAD OF ANY SWITCHING.
 - DH5-DH8 - PROVIDE 2-POLE, 20A CIRCUIT BREAKER IN PANEL HP2. EACH DEHUMIDIFIER SHALL HAVE A DEDICATED CIRCUIT. EACH UNIT IS PROVIDED WITH CORD/PLUG, CONFIRM RECEPTACLE CONFIGURATION WITH SUBMITTED DEHUMIDIFIER PRIOR TO ROUGH-IN.
 - CONDENSATE PUMP CP1 - PROVIDE 20A, 120V CIRCUIT FROM CLOSEST BOOTH PANEL. (SUB1, SUB2, SUB6, SUB7). PROVIDE WEATHER PROOF, GFCI RECEPTACLE FOR CP1. COORDINATE MOUNTING HEIGHT PRIOR TO ROUGH IN.
 - SUMP PUMP - PROVIDE 20A, 120V CIRCUIT FROM PANEL HP2. PROVIDE WEATHER PROOF, GFCI RECEPTACLE MOUNTED 18"AFF. COORDINATE FINAL RECEPTACLE LOCATION ON SITE PRIOR TO ROUGH IN.
 - EF-3 - PROVIDE 2-POLE, 20A CIRCUIT BREAKER IN PANEL HP2.



A1

WEST GARDINER - TUNNEL PLAN - POWER

1/8" = 1'-0"

Scale:

1/8" = 1'-0"

Designed by:

100% PS&E REVIEW SUBMISSION 10/03/2025

- NOT FOR CONSTRUCTION

No.	Revision	By	Date

Designed:	By	Date	Checked:	By	Date
PMC	PMC	10/03/2025	BTG	BTG	10/03/2025

Drawn:	By	Date
PMC	PMC	10/03/2025

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

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

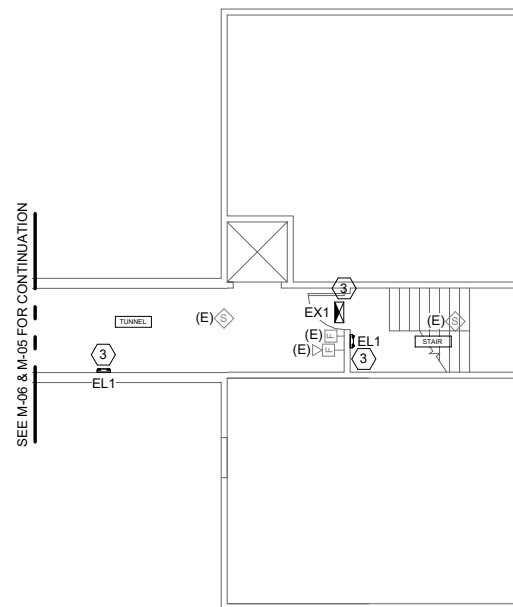
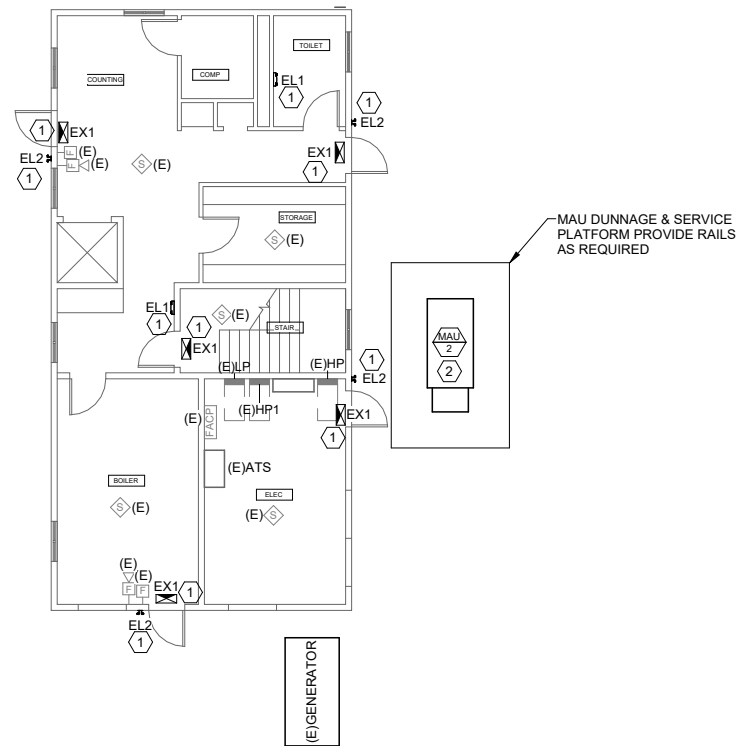
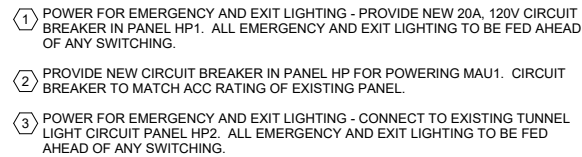
WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS

WEST GARDINER ELECTRICAL TUNNEL PLAN

SHEET NUMBER: E-05

CONTRACT: 2025.15


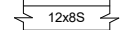
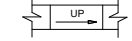
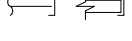




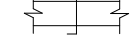




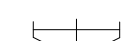



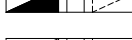
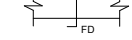


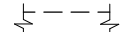

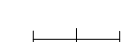


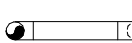
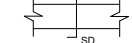


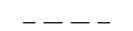
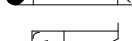


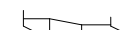
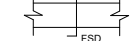


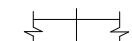


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[illegible]

ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT- REFER TO PANEL SCHEDULES FOR CIRCUITING																	
TAG	DESCRIPTION/ AREA SERVED	VOLTS	PH	LOAD	FLA	MCA	MOPD	DISCONNECT SWITCH				STARTER (NEMA)		CBD	WIRING IN CONDUIT (2 #12, 1#12 G UNO)	NOTES	
								FRAME	POLES	FUSE	NEMA...	FBD	SIZE/...				FBD
MUA-1	MAKE-UP AIR UNIT - NEW GLOUCESTER	240	1		11.30	11.30	15	FWE				23		22	22	3 #12, 1 #12G	
MUA-2	MAKE-UP AIR UNIT - GARDINER	240	1		11.30	11.30	15	FWE				23		22	22	3 #12, 1 #12G	
DH-1	DEHUMIDIFIER - NEW GLOUCESTER	240	1		11.10		20	CORD AND PLUG				26		23	23	3 #12, 1 #12G	1
DH-2	DEHUMIDIFIER - NEW GLOUCESTER	240	1		11.10		20	CORD AND PLUG				26		23	23	3 #12, 1 #12G	1
DH-3	DEHUMIDIFIER - NEW GLOUCESTER	240	1		11.10		20	CORD AND PLUG				26		23	23	3 #12, 1 #12G	1
DH-4	DEHUMIDIFIER - NEW GLOUCESTER	240	1		11.10		20	CORD AND PLUG				26		23	23	3 #12, 1 #12G	1
DH-5	DEHUMIDIFIER - GARDINER	240	1		11.10		20	CORD AND PLUG				26		23	23	3 #12, 1 #12G	1
DH-6	DEHUMIDIFIER - GARDINER	240	1		11.10		20	CORD AND PLUG				26		23	23	3 #12, 1 #12G	1
DH-7	DEHUMIDIFIER - GARDINER	240	1		11.10		20	CORD AND PLUG				26		23	23	3 #12, 1 #12G	1
DH-8	DEHUMIDIFIER - GARDINER	240	1		11.10		20	CORD AND PLUG				26		23	23	3 #12, 1 #12G	1
UH-1	UNIT HEATER - NEW GLOUCESTER	120	1	1/20 HP	1.00		20	FWE				23		23	23		
UH-2	UNIT HEATER - NEW GLOUCESTER	120	1	1/20 HP	1.00		20	FWE				23		23	23		
UH-3	UNIT HEATER - NEW GLOUCESTER	120	1	1/20 HP	1.00		20	FWE				23		23	23		
UH-4	UNIT HEATER - GARDINER	120	1	1/20 HP	1.00		20	FWE				23		23	23		
UH-5	UNIT HEATER - GARDINER	120	1	1/20 HP	1.00		20	FWE				23		23	23		
EF-1	EXHAUST FAN - NEW GLOUCESTER	240	1	1/2 HP	4.90		20	MRT				26		23	23	3 #12, 1 #12G	
EF-2	EXHAUST FAN - NEW GLOUCESTER	240	1	1 HP	8.00		20	MRT				26		23	23	3 #12, 1 #12G	
EF-3	EXHAUST FAN - GARDINER	240	1	1/2 HP	4.90		20	MRT				26		23	23	3 #12, 1 #12G	
EF-4	EXHAUST FAN - GARDINER	240	1	1 HP	8.00		20	MRT				26		23	23	3 #12, 1 #12G	
CP-1	CONDENSATE PUMP AT DEHUMIDIFIER	120	1	1/50 HP	1.00		20	CORD AND PLUG				26		23	23		2
	NOTES:													ABBREVIATIONS:			
1	UNIT PROVIDED WITH POWER CORD. CONFIRM PLUG TYPE WITH MECHANICAL CONTRACTOR FOR EXACT RECEPTACLE TYPE REQUIRED.												FWE	FURNISHED WITH EQUIPMENT			
2	UNIT PROVIDED WITH P5-20 PLUG AND CORD. PROVIDE 5-15 GFCI RECEPTACLE WITHIN 3' OF PUMP LOCATION. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.												NF	NOT FUSED			
													SWBD	SWITCHBOARD			
													FBD	FURNISHED BY DIVISION			
													CBD	CONTROL WIRING BY DIVISION			
													MRT	MOTOR RATED TOGGLE SWITCH (VOLTAGE, CURRENT RATING AND POLE QUANTITY AS REQUIRED)			

LUMINAIRE SCHEDULE- KEY NOTE 1,2										
TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBER - SEE KEY NOTE 1	MOUNTING	VOLTS	LAMP/LIGHT ENGINE			KEY NOTES	
						WATTS	DELIVERED LUMENS	TYPE		
EX1	EXIT SIGN W/ EMER HEADS	SURELITES	APCH7R	MOUNT 7'-6" AFF	120VAC/ 12VDC	2.8W			LED	3
EL1	EMERGENCY BATTERY LIGHT	SURELITES	APELH2	WALL 7'-6" AFF	120VAC/ 12VDC	0.6W			LED	
EL2	EMERGENCY REMOTE HEADS - EXTERIOR WET LOCATION RATED	SURELITES	APWR-2	WALL 9'-0" AFF	120VAC/ 12VDC	.78W			LED	
KEY NOTES										
1	NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG NUMBERS. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COMBINED.									
2	VERIFY CEILING STRUCTURE AND MOUNTING HEIGHT PRIOR TO ORDERING ANY LIGHT FIXTURES.									
3	PROVIDE WALL, CEILING, OR PENDANT MOUNTING AS INDICATED ON PLANS. PROVIDE NUMBER OF FACES AND ARROWS AS INDICATED.									
4	PROVIDE SATINICE DIFFUSED LENS									
5	PROVIDE RIGID STEMS FOR PENDANT MOUNTED FIXTURE.									
6	PROVIDE INTEGRAL PHOTOCELL AND MOTION SENSOR THAT WILL BE AUTO ON/AUTO OFF VIA MOTION SENSOR ONLY AFTER DUSK									

Scale:				Designed by:				<div>HNTB</div> <div>Allied Engineering A Salas O'Brien Company</div> <div>160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266</div>				<div><div>MAINE TURNPIKE</div><div>★</div></div> <div>THE GOLD STAR MEMORIAL HIGHWAY</div>				WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS ELECTRICAL SCHEDULES			
No.	Revision			By	Date														

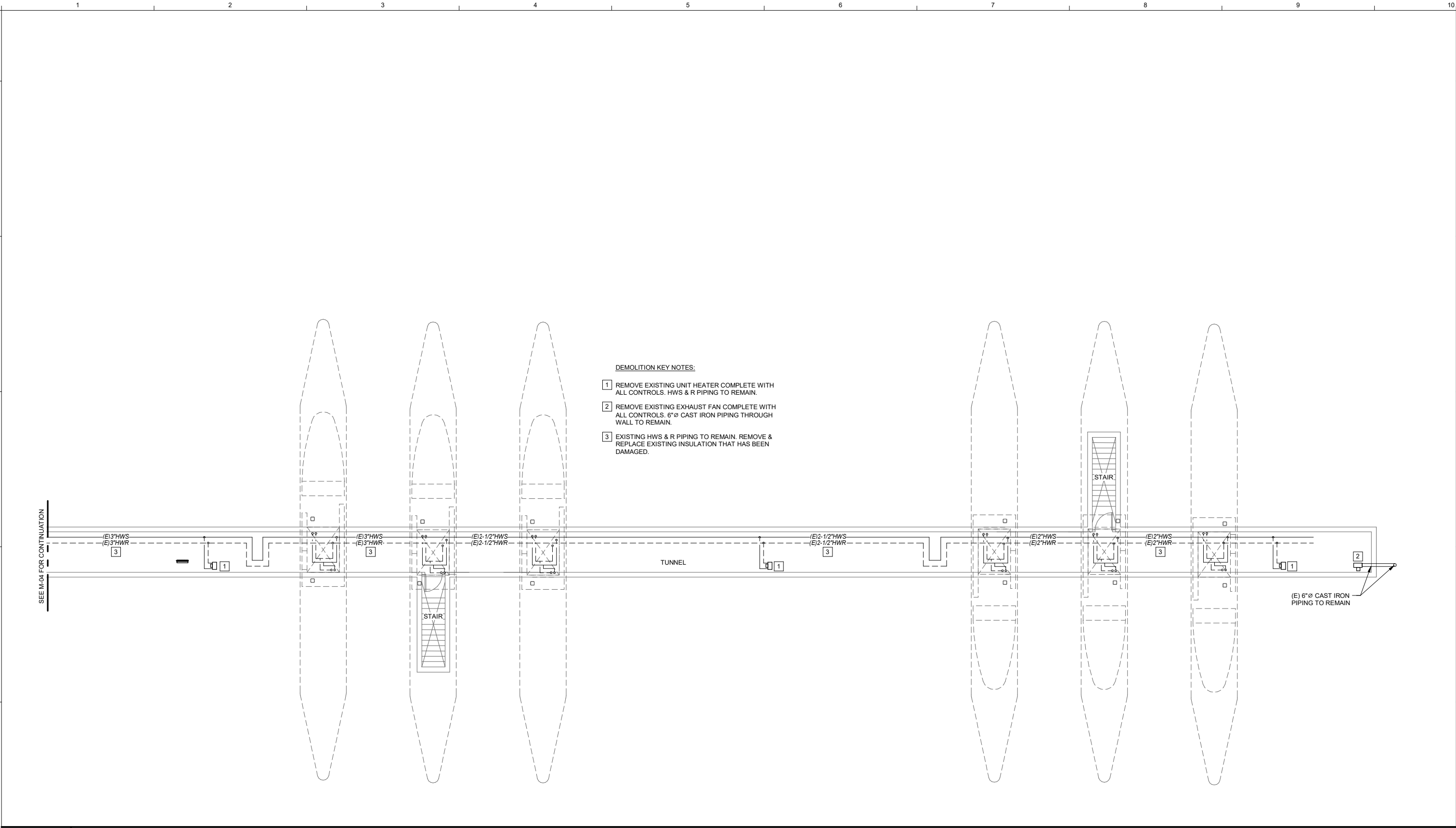
1	2	3	4	5	6	7	8	9	10
	PIPE ELBOW TURNED DN		DUCTWORK ~ FIRST DIMENSION IS SIDE SHOWN IN INCHES S= SUPPLY, R= RETURN, E= EXHAUST AIR, OA= OUTSIDE AIR F.O. = FLAT OVAL		CHANGE IN ELEVATION - UP, DOWN, RISE OR DROP		MOTORIZED DAMPER		REGISTER, GRILLE & DIFFUSER TAG DIFFUSER, REGISTER OR GRILLE No. QUANTITY CFM AIR FLOW
	PIPE ELBOW TURNED UP								
	PIPING TEE DOWN				SUPPLY DUCT TURNED UP / DN		FLEXIBLE CONNECTION		EQUIPMENT TAG TYPE DESIGNATOR NUMBER
	PIPING TEE UP		ACCOUSTICAL LINING (DUCT DIMENSION FOR NET FREE AREA)		RETURN DUCT TURNED UP / DN		TEMPERATURE SENSOR OR THERMOSTAT (AS SPECIFIED)		
	PIPE RISER		DUCTWORK TO BE REMOVED		EXHAUST DUCT TURNED UP / DN		HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED)		EQUIPMENT TAG (ON FLOOR/ROOF ABOVE) TYPE DESIGNATOR NUMBER
	45° ELBOW DOWN		SINGLE LINE DUCTWORK TO BE REMOVED		ROUND DUCT TURNED UP / DN		CARBON DIOXIDE SENSOR		
	PIPING TO BE REMOVED				MITERED DUCT ELBOW w/ TURNING VANES		CARBON MONOXIDE SENSOR		DETAIL REFERENCE SYMBOL DETAIL No. SHEET DETAIL LOCATED ON
	CAPPED PIPING		DUCT TRANSITION		RADIUS DUCT ELBOW		ACCESS PANEL		
	EXPANSION LOOP		SQUARE TO ROUND DUCT TRANSITION				DUCT SMOKE DETECTOR		SECTION REFERENCE SYMBOL SECTION No. SHEET SECTION LOCATED ON
	EXPANSION LOOP (BRAIDED/MANUFACTURED)						ROOFTOP EXHAUST FAN		
	FLOOR DRAIN								

E1	SYMBOLS LEGEND
NONE	

AW	ACID WASTE	LN	LIQUID NITROGEN	AAV	AUTOMATIC AIR VENT	CU	COPPER; CONDENSING UNIT	FM	FORCE MAIN	NIC	NOT IN CONTRACT	TSP	TOTAL STATIC PRESSURE
ATV	AIR RELIEF	LOX	LIQUID OXYGEN	AC	ABOVE CEILING	CUH	CABINET UNIT HEATER	GC	GENERAL CONTRACTOR	NPT	NATIONAL PIPE THREAD	TTS	TIGHT TO STEEL
BBD	BOILER BLOWDOWN	LP	LIQUID PETROLEUM GAS	ACC	AIR COOLED CONDENSER	C.V.	CONTROL VALVE	GPM	GALLONS PER MINUTE	NTS	NOT TO SCALE	TV	TURNING VANE
C	CONDENSATE (HVAC DRAIN PAN)	LPR	LOW PRESSURE CONDENSATE	ACU	AIR CONDITIONING UNIT	CW	COLD WATER; CLOCKWISE	GRV	GRAVITY ROOF VENTILATOR	OBD	OPPOSED BLADE DAMPER	TW	TEMPERED WATER
CA	COMPRESSED AIR	LPS	LOW PRESSURE STEAM	ADA	AMERICANS WITH DISABILITIES ACT	DB	DRY BULB TEMPERATURE	H	HUMIDIFIER	OA	OUTSIDE AIR	TYP	TYPICAL
CHWR	CHILLED WATER RETURN	MA	MEDICAL AIR	AD	ACCESS DOOR	DC	DOUBLE CONTAINED	HB	HOSE BIBB	OED	OPEN ENDED DUCT	UH	UNIT HEATER
CHWS	CHILLED WATER SUPPLY	MPR	MEDIUM PRESSURE CONDENSATE	AE	ACID EXHAUST	DDC	DIRECT DIGITAL CONTROL	HC; HDC	HANDICAP ACCESS	P-#	PLUMBING FIXTURE TAG	UIC	UP IN CHASE
CTR	COOLING TOWER RETURN	MPS	MEDIUM PRESSURE STEAM	AW	ACID WASTE	DET	DETAIL	HGT; HT	HEIGHT	PD	PUMPED DISCHARGE	UIW	UP IN WALL
CTS	COOLING TOWER SUPPLY	MUW	MAKE-UP WATER	AFF; A.F.F.	ABOVE FINISHED FLOOR	DIA	DIAMETER	HP	HEAT PUMP	PP	PROCESS PIPING	UV	UNIT VENTILATOR
CWR	CONDENSER WATER RETURN	N2	NITROGEN	AHU	AIR HANDLING UNIT	DIC	DOWN IN CHASE	HRU	HEAT RECOVERY UNIT	PRS	PRESSURE REDUCING STATION	V	VENT
CWS	CONDENSER WATER SUPPLY	NG	NATURAL GAS	AP	ACCESS PANEL	DIW	DOWN IN WALL	HTR	HEATER	PRV	PRESSURE REDUCING VALVE	VAC	VACUUM
- - -	DOMESTIC COLD WATER	NO	NITROUS OXIDE	APPROX.	APPROXIMATE; APPROXIMATELY	DN	DOWN	H&V	HEATING AND VENTILATION	R	RETURN AIR	VB	VACUUM BREAKER
- - -	DOMESTIC HOT WATER	NPW	NON-POTABLE WATER	APMR	AS PER MFR'S RECOMMENDATIONS	DS	DOWNSPOUT	HVAC	HEATING, VENTILATING AND AIR COND.	RD	ROOF DRAIN	VCFE	VALVE & CAP FOR FUTURE
- - -	DOMESTIC HOT WATER RECIRC.	OK	OXYGEN	ATC	AUTOMATIC TEMPERATURE CONTROL	DT	DROP AND TRANSITION	HW	HOT WATER	REC	RECOMMENDATION	VD	VOLUME DAMPER - MANUAL
D	DRAIN	PC	PUMPED CONDENSATE	AV	AIR VENT	DV	DRAIN VALVE	HWR	HOT WATER RETURN	REG	REGULAR	VLV	VALVE
FM	PUMP FORCE MAIN	PCWR	PROCESS COLD WATER RETURN	BC	BALANCING COCK	DWG	DRAWING	HWS	HOT WATER SUPPLY	RF	RETURN FAN	VS	VENT STACK
FOF	FUEL OIL FILL	PCWS	PROCESS COLD WATER SUPPLY	BDD	BACKDRAFT DAMPER	E	EXHAUST AIR	HX	HEAT EXCHANGER	RG	RETURN GRILLE	VTR	VENT TO ROOF
FOR	FUEL OIL RETURN	RD	REFRIGERANT DISCHARGE	BG	BLAST GATE	EF	EXHAUST FAN	ID	INSIDE DIAMETER	RHC	REHEAT COIL	W	WASTE
FOS	FUEL OIL SUPPLY	RL	REFRIGERANT LIQUID	BF	BARRIER FREE	EG	EXHAUST GRILLE	IN WG	INCHES WATER GAUGE	RM	ROOM	W/	WITH
FOV	FUEL OIL TANK VENT	RS	REFRIGERANT SUCTION	BFP	BACKFLOW PREVENTER	ELEV	ELEVATION	INCL.	INCLUDING	RPZ	REDUCED PRESSURE BFP	WB	WET BULB TEMPERATURE, °F
FW	FEEDWATER	RO	REVERSE OSMOSIS WATER	BHP	BRAKE HORSEPOWER	ELONG	ELONGATE	INV. EL.	INVERT ELEVATION	RR	RETURN REGISTER	WCO	WALL CLEANOUT
GR	GLYCOL RETURN	RW	RAIN WATER - ABOVE FLOOR	BLDG	BUILDING	ENC	ENCLOSURE	IPS	IRON PIPE SIZE	RV	RELIEF VALVE	WH	WATER HEATER
GS	GLYCOL SUPPLY	RW	RAIN WATER - BELOW GRADE	BOD	BOTTOM OF DUCT	ER	EXHAUST REGISTER	KE-#	KITCHEN EQUIPMENT NUMBER	RW	RAIN WATER	WHYD	WALL HYDRANT
GV	GREASE LADEN VENT	RWO	RAIN WATER OVERFLOW - ABOVE FLOOR	B.T.U.; BTU	BRITISH THERMAL UNIT	ERU	ENERGY RECOVERY UNIT	LD	LINEAR DIFFUSER	S	SUPPLY AIR	Ø	DIAMETER
GW	GREASE LADEN WASTE	RWO	RAIN WATER OVERFLOW - BELOW GRADE	CONV.	CONVECTOR	ESP	EXTERNAL STATIC PRESSURE	LE-#	SCIENCE LAB EQUIPMENT NUMBER	SA- " "	SHOCK ABSORBER OF PDI SIZE (" ") AS INDICATED	@	AT
GWR	GEO THERMAL WATER RETURN	SP	SPRINKLER MAIN PIPING	CCW	COUNTER CLOCKWISE	ET	EXPANSION TANK	LP	LIQUID PETROLEUM GAS	SCV	SELF-CONTAINED VALVE	&	AND
GWS	GEO THERMAL WATER SUPPLY	SWR	SOLAR WATER RETURN	CFF	CAPPED FOR FUTURE	(E)	EXISTING	LPR	LOW PRESSURE STEAM RETURN	SG	SUPPLY GRILLE	%	PERCENT
H	HUMIDIFICATION LINE	SWS	SOLAR WATER SUPPLY	CFM	CUBIC FEET PER MINUTE	F&T	FLOAT AND THERMOSTATIC	LPS	LOW PRESSURE STEAM SUPPLY	SD	SMOKE DAMPER		
H2	HYDROGEN GAS	TP	TRAP PRIMER - ABOVE FLOOR	CLG	CEILING	FBO	FURNISHED BY OTHERS	MAX	MAXIMUM	SF	SUPPLY FAN		
HCR	HEAT/COOL RETURN	TP	TRAP PRIMER - BELOW GRADE	CO	CLEANOUT	FBP	FACE AND BYPASS	MBH	1000 BTUH/hr.	SGL	SINGLE		
HCS	HEAT/COOL SUPPLY	TWR	TEMPERED WATER RETURN	CM	CONSTRUCTION MANAGER	FC	FLEXIBLE CONNECTION	MFR	MANUFACTURER	SHT	SHEET		
HPWR	HEAT PUMP WATER RETURN	TWS	TEMPERED WATER SUPPLY	CNTR	COUNTER; COUNTER TOP	ECO	FLOOR CLEANOUT	MIN	MINIMUM	SPLR	SPRINKLER		
HPWS	HEAT PUMP WATER SUPPLY	V	SANITARY SOIL VENT - ABOVE FLOOR	CONN	CONNECT; CONNECTION	FD-#	FLOOR DRAIN TAG	MOD	MOTOR OPERATED DAMPER	SQ. FT; SF	SQUARE FEET		
HPC	HIGH PRESSURE CONDENSATE	V	SANITARY SOIL VENT - BELOW GRADE	CONT.	CONTINUE; CONTINUATION	FD	FIRE DAMPER	MPG	MEDIUM PRESSURE GAS	SR	SUPPLY REGISTER		
HPS	HIGH PRESSURE STEAM	VAC	VACUUM (AIR)	COORD.	COORDINATE	FDC	FIRE DEPT. CONNECTION	MPV	MULTI-PURPOSE VALVE	S/O	SHUT-OFF		
HTWR	HIGH-TEMP HOT WATER RETURN	VC	VACUUM CLEANING (HOUSE)	CORR	CORRIDOR	FIN	FINISH	MTD	MOUNTED	S.S.	STAINLESS STEEL		
HWR	HOT WATER RETURN	VPD	VACUUM PUMP DISCHARGE	CR	CHEMICAL RESISTING	FL; FLR	FLOOR	MTG	MOUNTING	TD	TRENCH DRAIN		
HWS	HOT WATER SUPPLY	W	SANITARY SOIL WASTE - ABOVE FLOOR	CT	COOLING TOWER	FP	FROST/FREEZE PROOF	MUA	MAKE UP AIR	TG	TRANSFER GRILLE		
IND	INDUSTRIAL WASTE	W	SANITARY SOIL WASTE - BELOW GRADE	CTE	CONNECT TO EXISTING	FTG	FOOTING	N.C.	NORMALLY CLOSED	TOD	TOP OF DUCT		
IW	INDIRECT WASTE	WV	SANITARY WET VENT - ABOVE FLOOR	CTR	CENTER	FTR	FINNED TUBE RADIATION	N.O.	NORMALLY OPEN	TP	TRAP PRIMER		
		WV	SANITARY WET VENT - BELOW GRADE	CTRLN	CENTERLINE	FS	FLOW SWITCH	NG	NATURAL GAS				

A1	PIPING LINETYPE LEGEND	A5	ABBREVIATIONS
NONE		NONE	

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12" = 1'-0"																			
No.	Revision	By	Date																
				100% PS&E REVIEW SUBMISSION 10/03/2025 - NOT FOR CONSTRUCTION															



A1

NEW GLOUCESTER - TUNNEL DEMO PLAN

1/8" = 1'-0"

Scale:

1/8" = 1'-0"

Designed by:

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No.	Revision	By	Date

By	Date	By	Date
Designed: SCL	10/03/2025	Checked: ASD	10/03/2025
Drawn: SCL	10/03/2025		

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MAINE
TURNPIKE

★

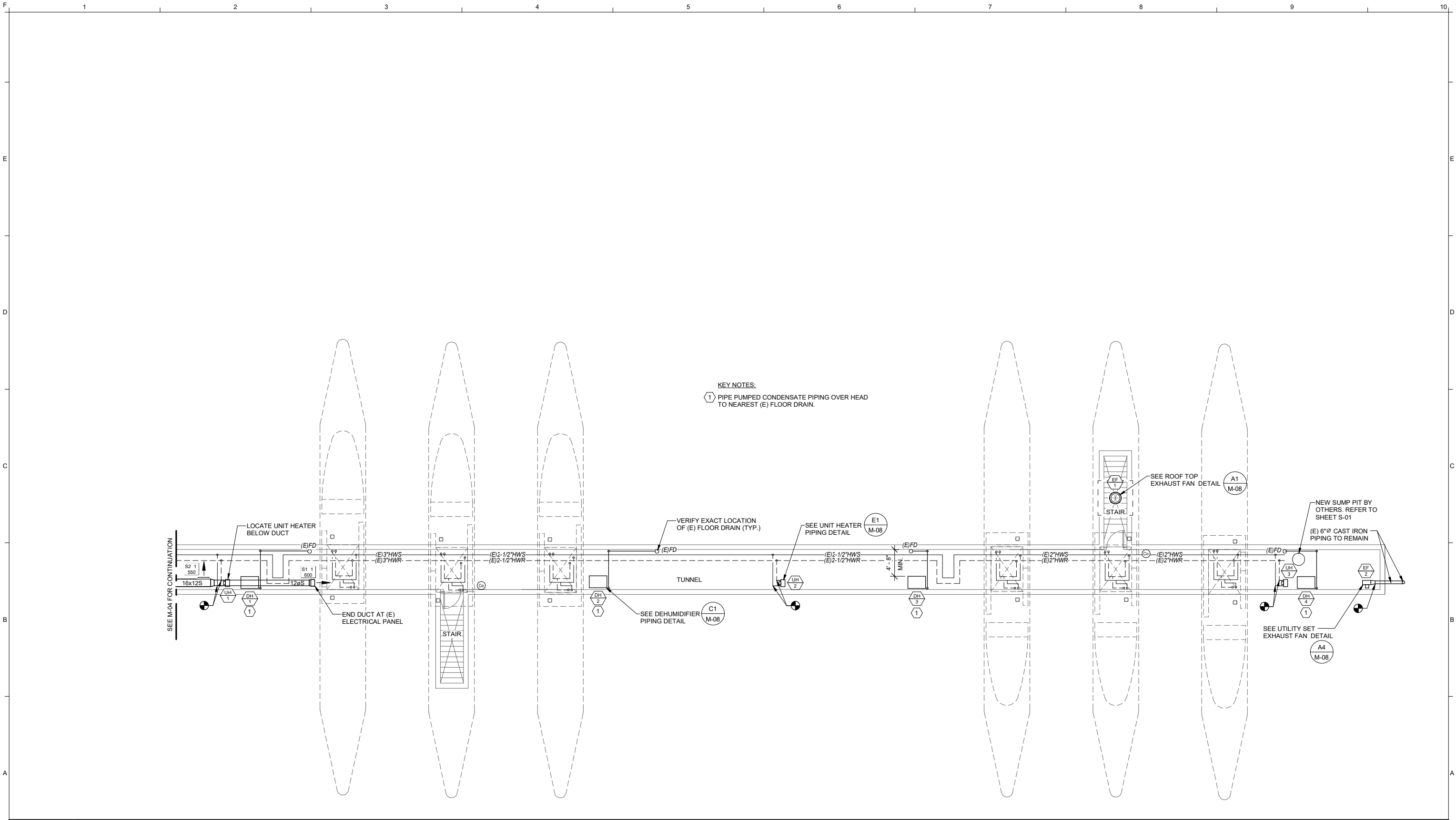
THE GOLD STAR
MEMORIAL HIGHWAY

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

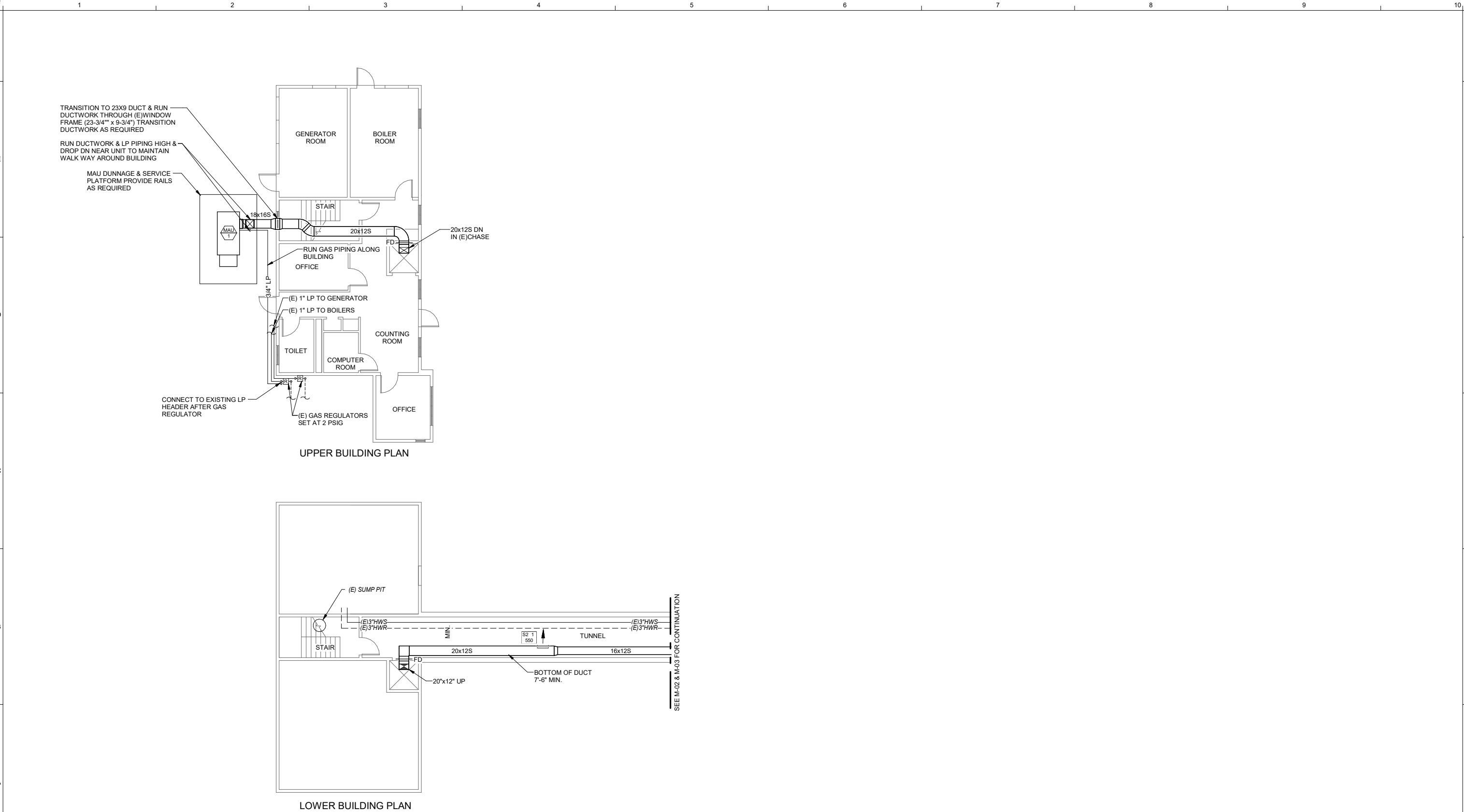
WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS
NEW GLOUCESTER MECHANICAL DEMOLITION




CONTRACT: 2025.15

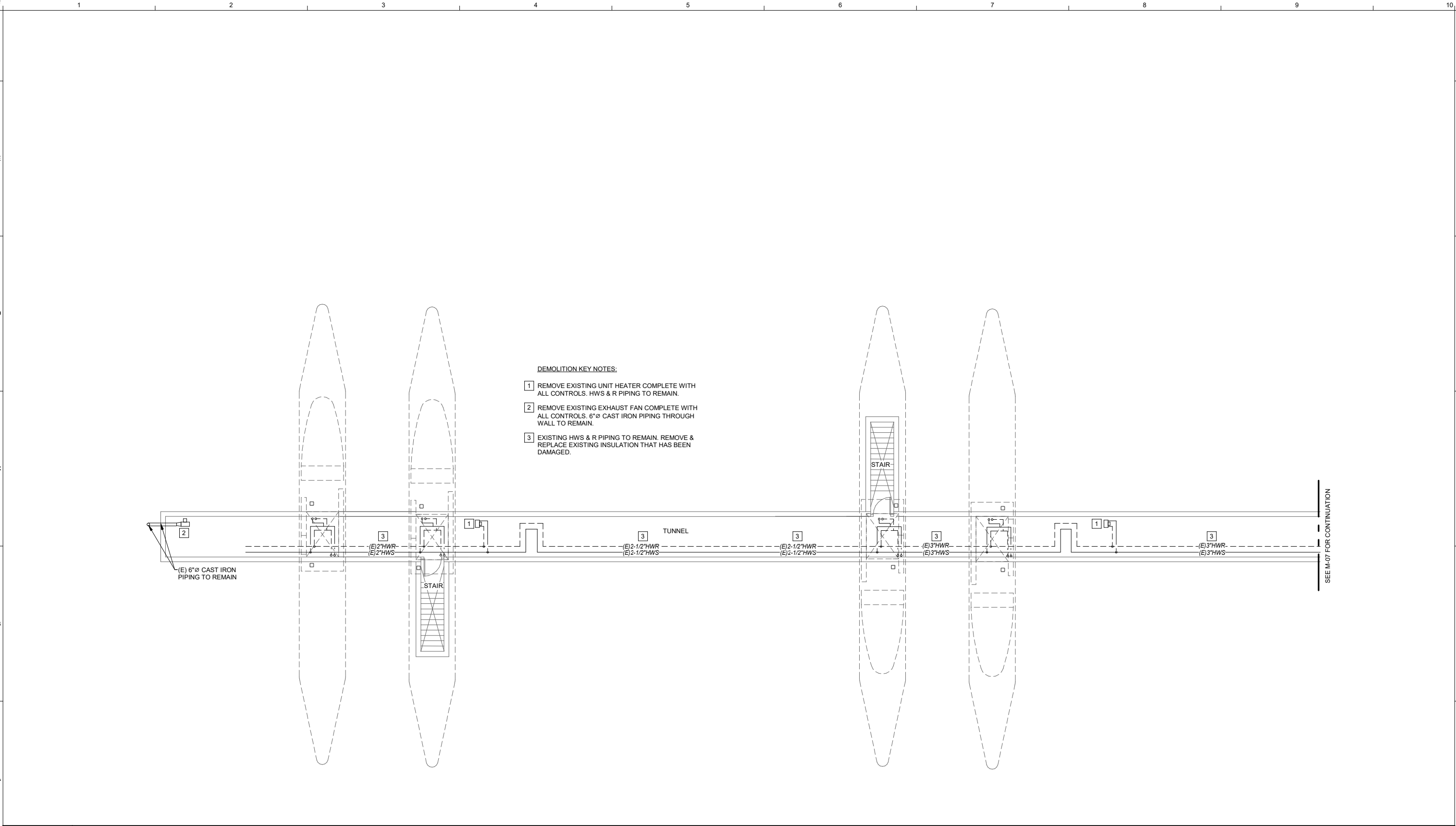
SHEET NUMBER: M-02
034 OF 041



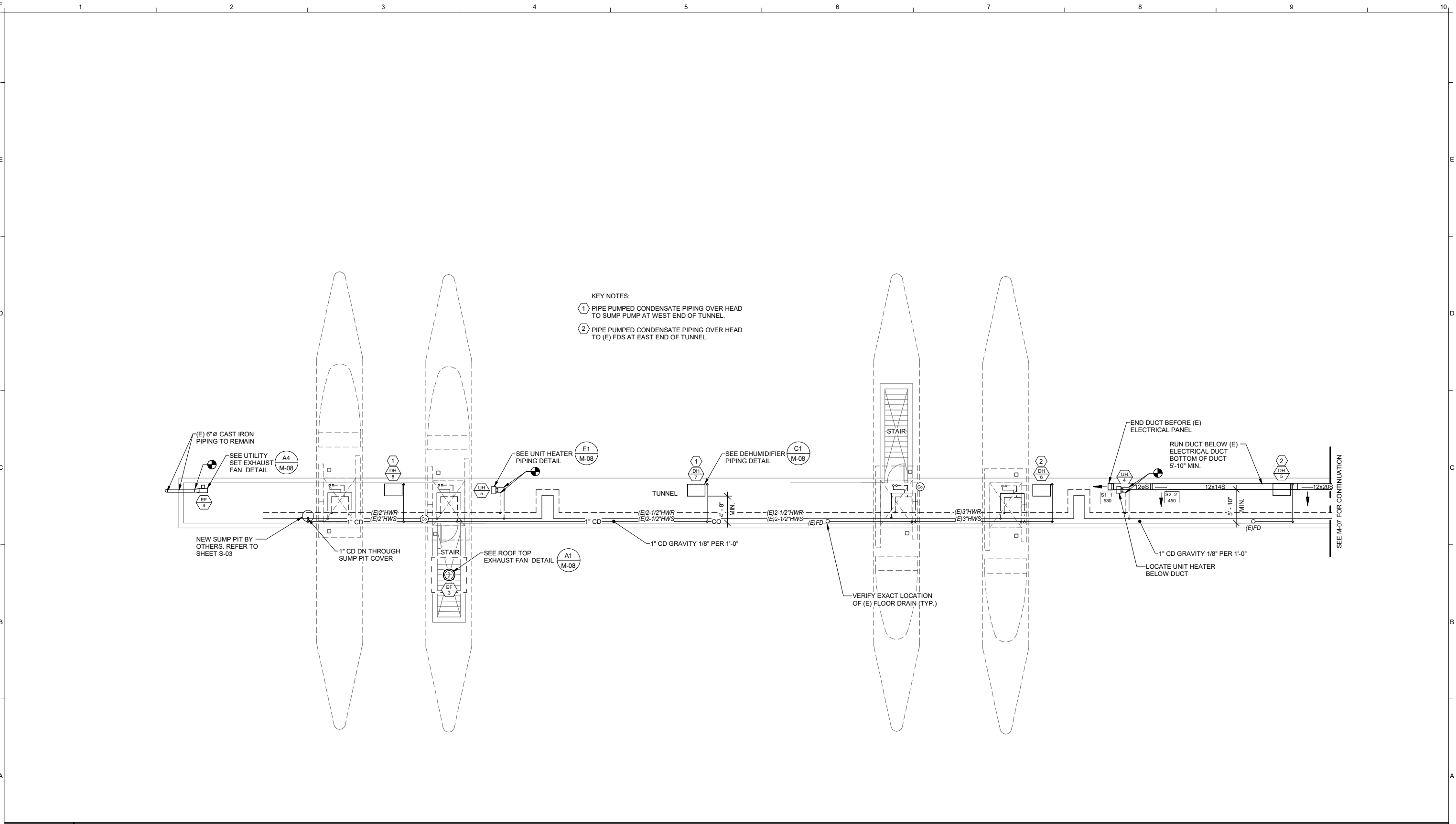
A1		NEW GLOUCESTER - TUNNEL PLAN																	
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				Designed:	SCL	10/03/2025	Checked:	ASD	10/03/2025										
				Drawn:	SCL	10/03/2025				AEI PRO.NO.: 2461-66453 CAD FILE: 2461-66453.RVT									
										<div><div><div>MAINE TURNPIKE</div><div>★</div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div>									
										WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS NEW GLOUCESTER MECHANICAL TUNNEL PLAN									
										SHEET NUMBER: M-03									
										CONTRACT: 2025.15 035 OF 041									



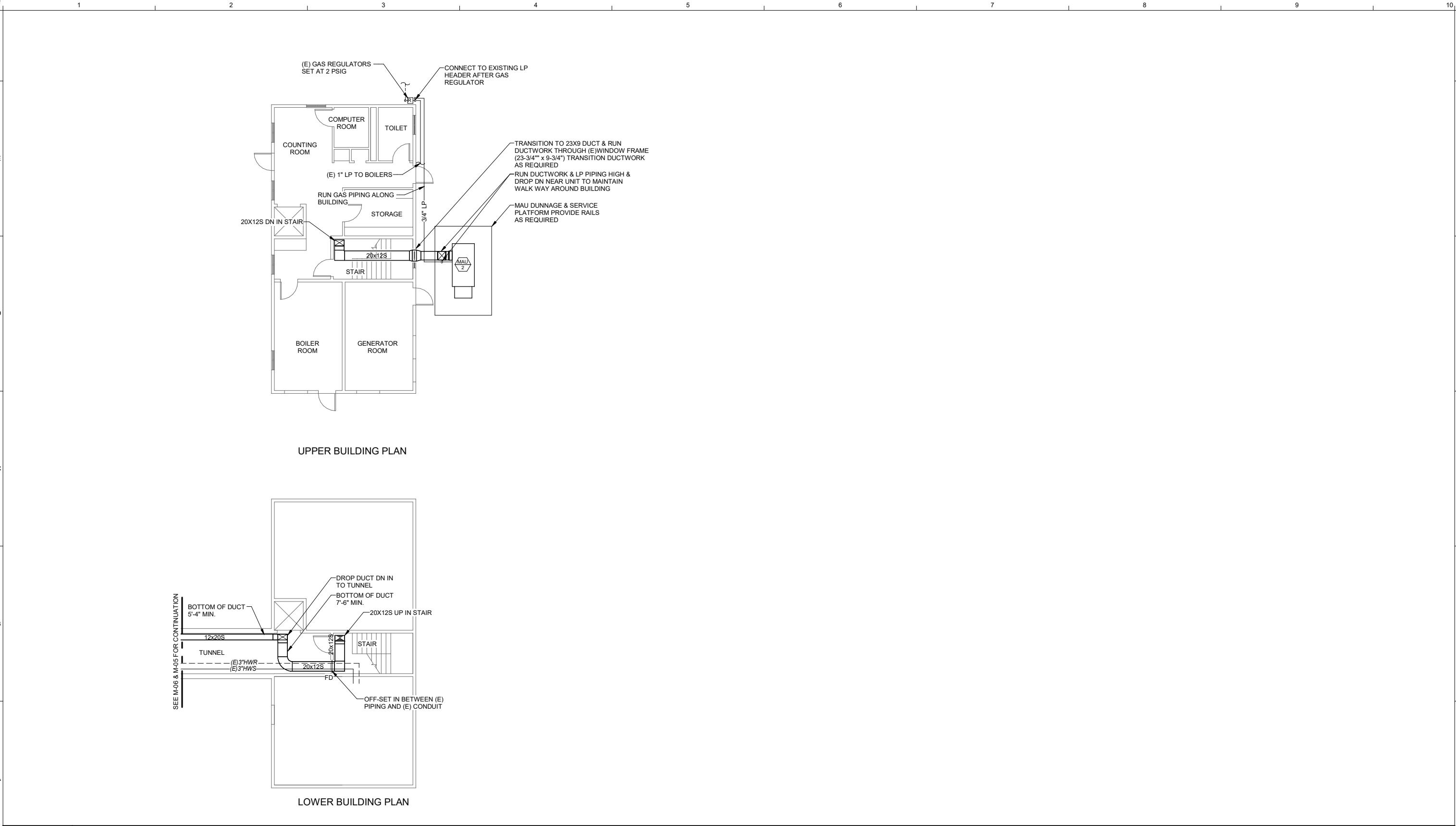
A1		NEW GLOUCESTER - UPPER & LOWER BUILDING PLANS																			
1/8" = 1'-0"																					
Scale:				Designed by:						<div><div><div><div><div><div>100% PS&E REVIEW SUBMISSION 10/03/2025 - NOT FOR CONSTRUCTION</div></div></div><div><div>160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266</div></div></div></div><div><div><div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div></div></div><div>WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS NEW GLOUCESTER MECHANICAL BUILDING PLAN</div></div>											
1/8" = 1'-0"																					
No.	Revision			By	Date																



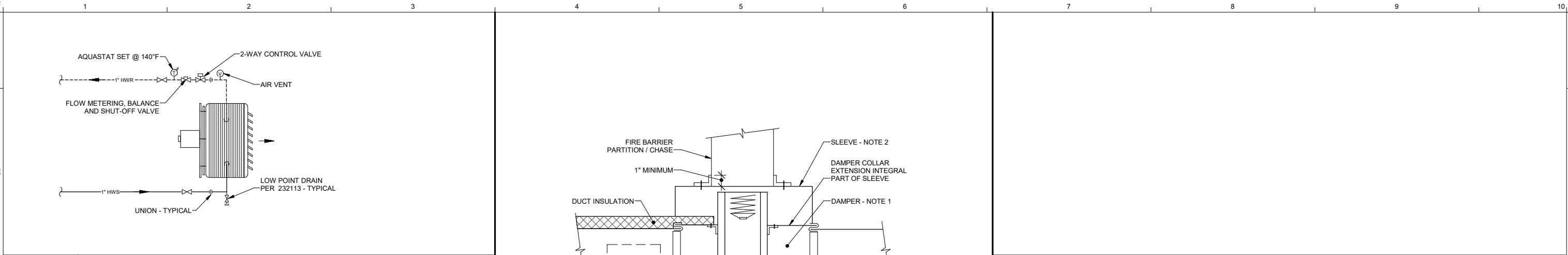
A1		WEST GARDINER - TUNNEL PLAN DEMO										
1/8" = 1'-0"												
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				Drawn:	SCL	10/03/2025				AEI PRO.NO.: 2461-66453 CAD FILE: 2461-66453.RVT		
								<div><div><div>MAINE TURNPIKE</div><div>★</div></div><div>THE GOLD STAR MEMORIAL HIGHWAY</div></div>				
								MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.				
								WEST GARDINER & NEW GLOUCESTER TOLL TUNNEL REPAIRS WEST GARDINER MECHANICAL DEMO PLAN				
								SHEET NUMBER: M-05				
								CONTRACT: 2025.15 037 OF 041				



A1		WEST GARDINER - TUNNEL PLAN																				
1/8" = 1'-0"																						
Scale: 1/8" = 1'-0"					Designed by:					<div><div><div>HNTB</div></div><div><div><div><div></div><div>Allied Engineering</div><div>A Salas O'Brien Company</div></div><div><div>160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266</div></div></div></div></div>					<div><div><div>MAINE TURNPIKE</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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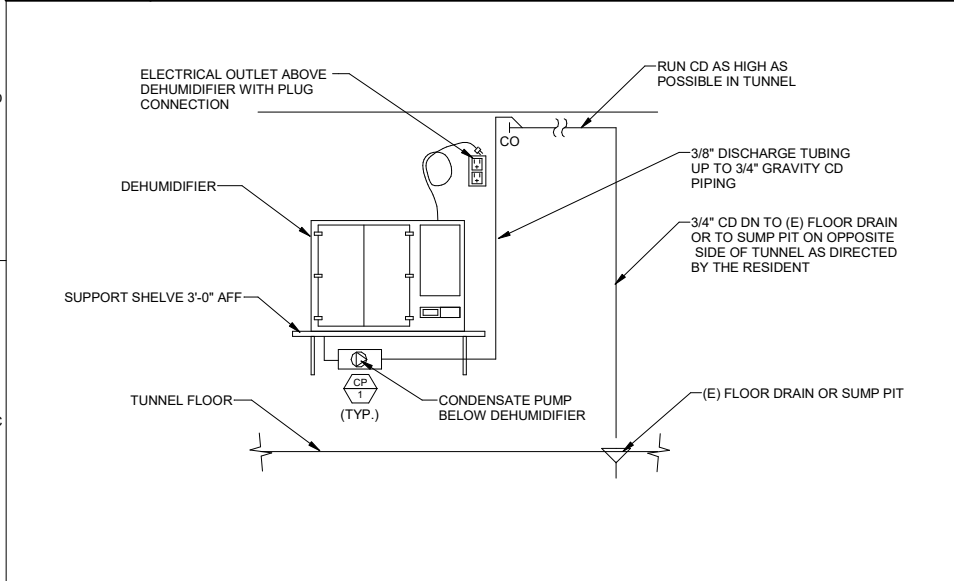
A1		WEST GARDINER - - UPPER & LOWER BUILDING PLANS											
1/8" = 1'-0"													
Scale:				Designed by:						<div><div>HNTB</div><div><div>160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266</div><div><div>Allied Engineering</div><div>A Salas O'Brien Company</div></div></div></div>			
1/8" = 1'-0"				100% PS&E REVIEW SUBMISSION 10/03/2025 - NOT FOR CONSTRUCTION									
No.	Revision		By	Date	Designed:	By	Date	Checked:	By	Date	MTA PROJECT MANAGER: KRISTI VAN OOYEN, P.E.		
					SCL	10/03/2025		ASD	10/03/2025				
					Drawn:	SCL	10/03/2025				CONTRACT: 2025.15		
												SHEET NUMBER: M-07	
												039 OF 041	



E1

HYDRONIC UNIT HEATER PIPING

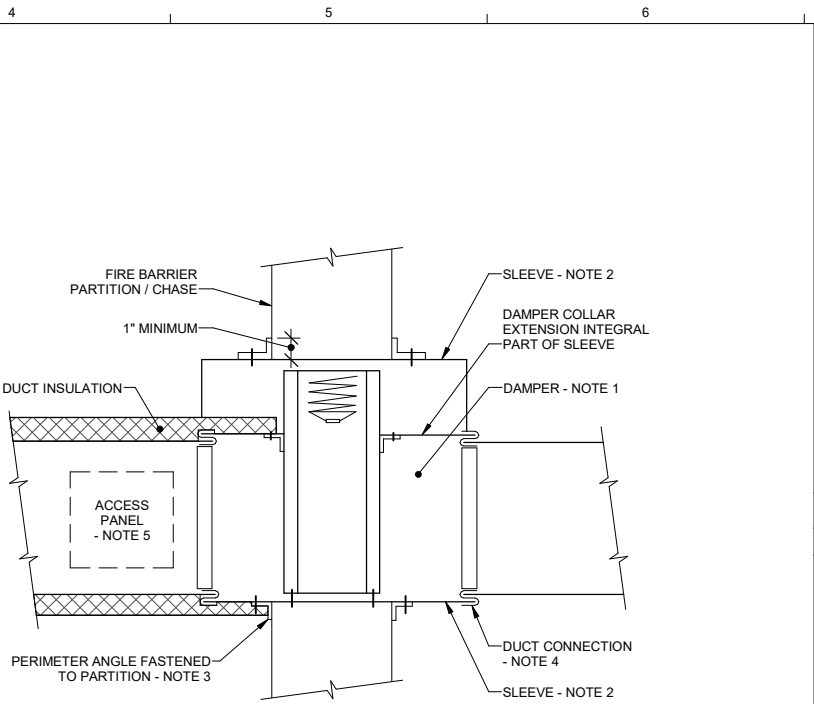
NONE



C1

DEHUMIDIFIER PIPING DETAIL

NONE



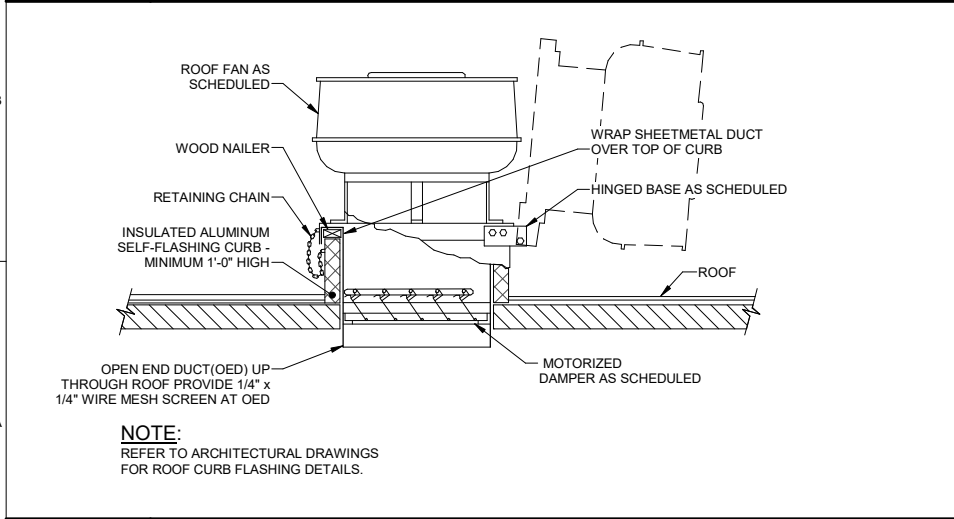
NOTES:

1. VERTICAL DAMPER INSTALLATION SHOWN - HORIZONTAL DAMPER INSTALLATION SIMILAR. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS, GAUGES OF SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE OF THE PENETRATION.
2. GALVANIZED SLEEVE - GAUGE OF NOT LESS THAN THAT OF THE CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME / PERIMETER ANGLES.
3. PERIMETER ANGLES - GALVANIZED STEEL OF NOT LESS THAN 1-1/2"x1-1/2" - 14 GAUGE TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
4. BREAK-AWAY DUCT CONNECTION - CONTRACTOR'S OPTION OF TYPE AS SHOWN IN SMACNA LPDS, FIGURE 2-13, SEAL JOINTS.
5. ACCESS PANELS - SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.

C4

TYPICAL FIRE DAMPER

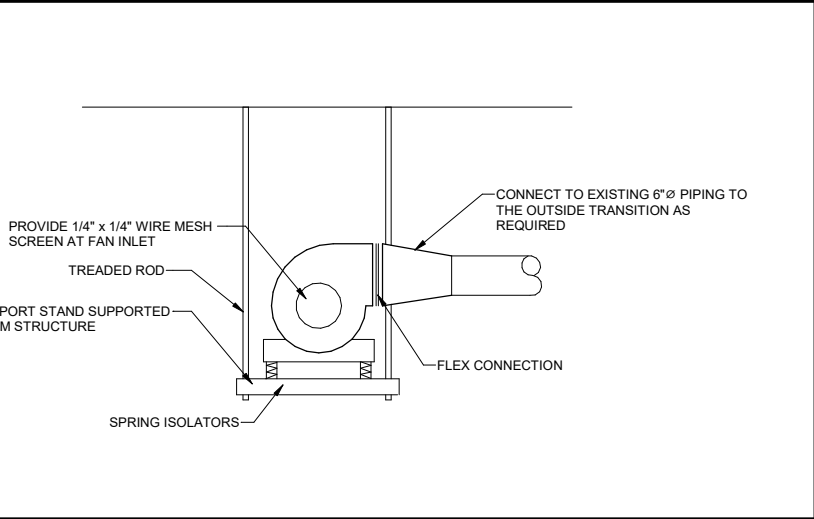
NONE



A1

ROOF MOUNTED EXHAUSTER

NONE



A4

UTILITY SET EXHAUST FAN - HORIZONTAL DISCHARGE

NONE

MAKE-UP AIR UNIT SCHEDULE - NEW GLOUCESTER	
INDOOR UNIT:	MUA-1
MANUFACTURER	RUPPAIR
DESCRIPTION	INDIRECT FIRED
MODEL	186725/A01-ECM-60-277-16
WEIGHT	1213
AIRFLOW MAX, cfm	1,700
AIRFLOW MIN, cfm	850
ESP, in.wc.	1.5"
HP	1.75
RPM	1,805
HEATING	
FUEL	LP, 7" TO 14" WC
EAT - LAT, deg-F.	-10F to 85F
LP INPUT (MBH)	192
LP OUTPUT (MBH)	156
EFFICIENCY	81.3%
TURNDOWN	5 to 1
FILTERS	MERV 8
ELECTRICAL	
VOLTAGE/HZ/PHASE	208/1/60
MOP	15
MCA	11.3
NOTES:	
1. Units shall each include a VFD to control fan speed. VFD shall take 4-20 signal from BAS.	
2. Factory+B6:C27 controller to maintain discharge air temperature when operating. Setpoint shall be via input...	

MAKE-UP AIR UNIT SCHEDULE - GARDINER	
INDOOR UNIT:	MUA-2
MANUFACTURER	RUPPAIR
DESCRIPTION	INDIRECT FIRED
MODEL	186725/A01-ECM-60-277-16
WEIGHT	1213
AIRFLOW MAX, cfm	1,430
AIRFLOW MIN, cfm	700
ESP, in.wc.	1.5"
HP	1.75
RPM	1,663
HEATING	
FUEL	LP, 7" TO 14" WC
EAT - LAT, deg-F.	-10F to 85F
LP INPUT (MBH)	162
LP OUTPUT (MBH)	131
EFFICIENCY	80.9%
TURNDOWN	5 to 1
FILTERS	MERV 8
ELECTRICAL	
VOLTAGE/HZ/PHASE	208/1/60
MOP	15
MCA	11.3
NOTES:	
1. Units shall each include a VFD to control fan speed. VFD shall take 4-20 signal from BAS.	
2. Factory controller to maintain discharge air temperature when operating. Setpoint shall be via input from BAS.	

PLUMBING PUMP SCHEDULE									
TAG	SERVES	MFR.	MODEL	TYPE	GPM	HEAD	ELECTRICAL		NOTES
							MOTOR HP	VOLTS/PH (60 Hz.)	
CP-1	DEHUMIDIFERS	LITTLE GIANT	VCMA-15 SERIES	CONDENSATE PUMP	25	10	1/50	115/1	1
NOTES:									
1. SEE SPEC SECTION 221316; PLUG ELECTRICAL CONNECTION.									

FAN SCHEDULE																		
TAG	SERVES	MFR.	MODEL	TYPE	DRIVE	CFM-M IN	CFM-M AX	SP (IN. WC.)	ELECTRICAL					INLET LwA (db)	WEIGHT (LBS.)	DAMPER	NOTES	
									MAX BHP	MOTOR HP	MOTOR TYPE	VFD FURN. BY	DISC. SWITCH FURN BY					VOLTS /PH
EF-1	TUNNEL	GREENHECK	CUE-130-VG	CENTRIFUGAL ROOF	DIRECT	1,100	1,100	0.75	0.23	0.5	ECM	DIV 23	FAN MFR.	208/1	73.0	77	MOD	2
EF-2	TUNNEL	GREENHECK	IP-5	UTILITY SET	DIRECT	600	600	1.0"	0.81	1	ECM	DIV 23	FAN MFR.	208/1	96.0	157	-	1
EF-3	TUNNEL	GREENHECK	CUE-130-VG	CENTRIFUGAL ROOF	DIRECT	1,100	1,100	0.75	0.23	0.5	ECM	DIV 23	FAN MFR.	208/1	73.0	77	MOD	2
EF-4	TUNNEL	GREENHECK	IP-5	UTILITY SET	DIRECT	600	600	1.0"	0.81	1	ECM	DIV 23	FAN MFR.	208/1	96.0	157	-	1
1. TO RUN CONTINUOUSLY.																		
2. INTERLOCKED WITH CO SENSOR, TO BE ENERGIZED ON A CALL FROM THE CO ALARM.																		

DEHUMIDIFIER SCHEDULE NEW GLOUCESTER				
LOCATION	TOLL PLAZZA TUNNEL	TOLL PLAZZA TUNNEL	TOLL PLAZZA TUNNEL	TOLL PLAZZA TUNNEL
TAG	DH-1	DH-2	DH-3	DH-4
ARRANGEMENT	HORIZ. DEMUMIDIFIER	HORIZ. DEMUMIDIFIER	HORIZ. DEMUMIDIFIER	HORIZ. DEMUMIDIFIER
MANUFACTURER	DRISTEEM	DRISTEEM	DRISTEEM	DRISTEEM
MODEL	RL-14	RL-14	RL-14	RL-14
WATER REMOVAL (AT 70F AND 60%RH)	9.26 LBS/HR @ 75F / 50%RH	9.26 LBS/HR @ 75F / 50%RH	9.26 LBS/HR @ 75F / 50%RH	9.26 LBS/HR @ 75F / 50%RH
ENERGY FACTOR	2.9 L / KWH	2.9 L / KWH	2.9 L / KWH	2.9 L / KWH
REFRIGERANT	R410A	R410A	R410A	R410A
CFM	830	830	830	830
EXT. STATIC PRESSURE	0"	0"	0"	0"
ELECTRICAL	208/240-1-60	208/240-1-60	208/240-1-60	208/240-1-60
CURRENT DRAW, AMPS	11.1	11.1	11.1	11.1
DISCONNECT	10FT POWER CORD, GROUNDED	10FT POWER CORD, GROUNDED	10FT POWER CORD, GROUNDED	10FT POWER CORD, GROUNDED
COND. DRAIN SIZE	3/4"	3/4"	3/4"	3/4"
DIMENSIONS - H XW X L	24" X 37" X 25"	24" X 37" X 25"	24" X 37" X 25"	24" X 37" X 25"
WEIGHT, LBS.	180	180	180	180
NOTES: 1. PROVIDE CONDENSATE PUMP.				

DEHUMIDIFIER SCHEDULE GARDINER				
LOCATION	TOLL PLAZZA TUNNEL	TOLL PLAZZA TUNNEL	TOLL PLAZZA TUNNEL	TOLL PLAZZA TUNNEL
TAG	DH-5	DH-6	DH-7	DH-8
ARRANGEMENT	HORIZ. DEMUMIDIFIER	HORIZ. DEMUMIDIFIER	HORIZ. DEMUMIDIFIER	HORIZ. DEMUMIDIFIER
MANUFACTURER	DRISTEEM	DRISTEEM	DRISTEEM	DRISTEEM
MODEL	RL-14	RL-14	RL-14	RL-14
WATER REMOVAL (AT 70F AND 60%RH)	9.26 LBS/HR @ 75F / 50%RH	9.26 LBS/HR @ 75F / 50%RH	9.26 LBS/HR @ 75F / 50%RH	9.26 LBS/HR @ 75F / 50%RH
ENERGY FACTOR	2.9 L / KWH	2.9 L / KWH	2.9 L / KWH	2.9 L / KWH
REFRIGERANT	R410A	R410A	R410A	R410A
CFM	830	830	830	830
EXT. STATIC PRESSURE	0"	0"	0"	0"
ELECTRICAL	208/240-1-60	208/240-1-60	208/240-1-60	208/240-1-60
CURRENT DRAW, AMPS	11.1	11.1	11.1	11.1
DISCONNECT	10FT POWER CORD, GROUNDED	10FT POWER CORD, GROUNDED	10FT POWER CORD, GROUNDED	10FT POWER CORD, GROUNDED
COND. DRAIN SIZE	3/4"	3/4"	3/4"	3/4"
DIMENSIONS - H XW X L	24" X 37" X 25"	24" X 37" X 25"	24" X 37" X 25"	24" X 37" X 25"
WEIGHT, LBS.	180	180	180	180
NOTES: 1. PROVIDE CONDENSATE PUMP.				

UNIT HEATER SCHEDULE																		
TAG	SERVES	MFR. -MODEL	SIZE	TYPE	MBH	CFM	EAT (F)	LAT (F)	GPM	FLUID	EWT	LWT	MOTOR TYPE	MOTOR HP	ELECT	MAX WPD	CONTROL VALVE	NOTES
UH-1	NEW GLOUCESTER TUNNEL	TRANE UHSBA36	36	HORIZ. UH	35.9	850	60	99.1	3.6	WATER	180	150.0	TEAO	1/20	120-1-60	3.0	2-WAY	1
UH-2	NEW GLOUCESTER TUNNEL	TRANE UHSBA36	36	HORIZ. UH	35.9	850	60	99.1	3.6	WATER	180	150.0	TEAO	1/20	120-1-60	3.0	2-WAY	1
UH-3	NEW GLOUCESTER TUNNEL	TRANE UHSBA36	36	HORIZ. UH	35.9	850	60	99.1	3.6	WATER	180	150.0	TEAO	1/20	120-1-60	3.0	3-WAY	1
UH-4	GARDINER TUNNEL	TRANE UHSBA60	60	HORIZ. UH	43.6	900	60	104.9	4.4	WATER	180	150.0	TEAO	1/20	120-1-60	3.0	2-WAY	1
UH-5	GARDINER TUNNEL	TRANE UHSBA60	60	HORIZ. UH	43.6	900	60	104.9	4.4	WATER	180	150.0	TEAO	1/20	120-1-60	3.0	3-WAY	1
NOTES:																		
1. POWER WIRING TO UNIT HEATER BY DIV 26. ALL LOW VOLTAGE CONTROL WIRING, THERMOSTAT, RELAYS, AND TRANSFORMERS BY DIV. 23. DISCONNECT SWITCH: PROVIDE BY UNIT HEATER MANUFACTURER.																		

REGISTERS - GRILLES - DIFFUSERS (RGD) SCHEDULE										
TAG	MFR.	MODEL	TYPE	NECK SIZE	FACE SIZE	MAX CFM	MAX TOTAL P.D....	MAX NC LEVEL	BLOW	NOTES
S-1	PRICE	620D	ALUMINUM DOUBLE DEFL. SUPPLY, W/DAMPER	14" X 10"	15.75" X 11.75"	600	0.10"	30	ADJUSTAB...	
S-2	PRICE	AHCD2	ALUMINUM DRUM LOUVER. SUPPLY, W/DAMPER	15" X 6"	15.75" X 7.75"	600	0.10"	38	ADJUSTAB...	

Scale:

No.	Revision	By	Date

Designed by:

100% PS&E REVIEW SUBMISSION 10/03/2025
- NOT FOR CONSTRUCTION

	By	Date		By	Date
Designed:	SCL	10/03/2025	Checked:	ASD	10/03/2025
Drawn:	SCL	10/03/2025			

HNTB

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

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

WEST GARDINER & NEW GLOUCESTER
TOLL TUNNEL REPAIRS
MECHANICAL SCHEDULES

SHEET NUMBER: M-09

CONTRACT: 2025.15

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