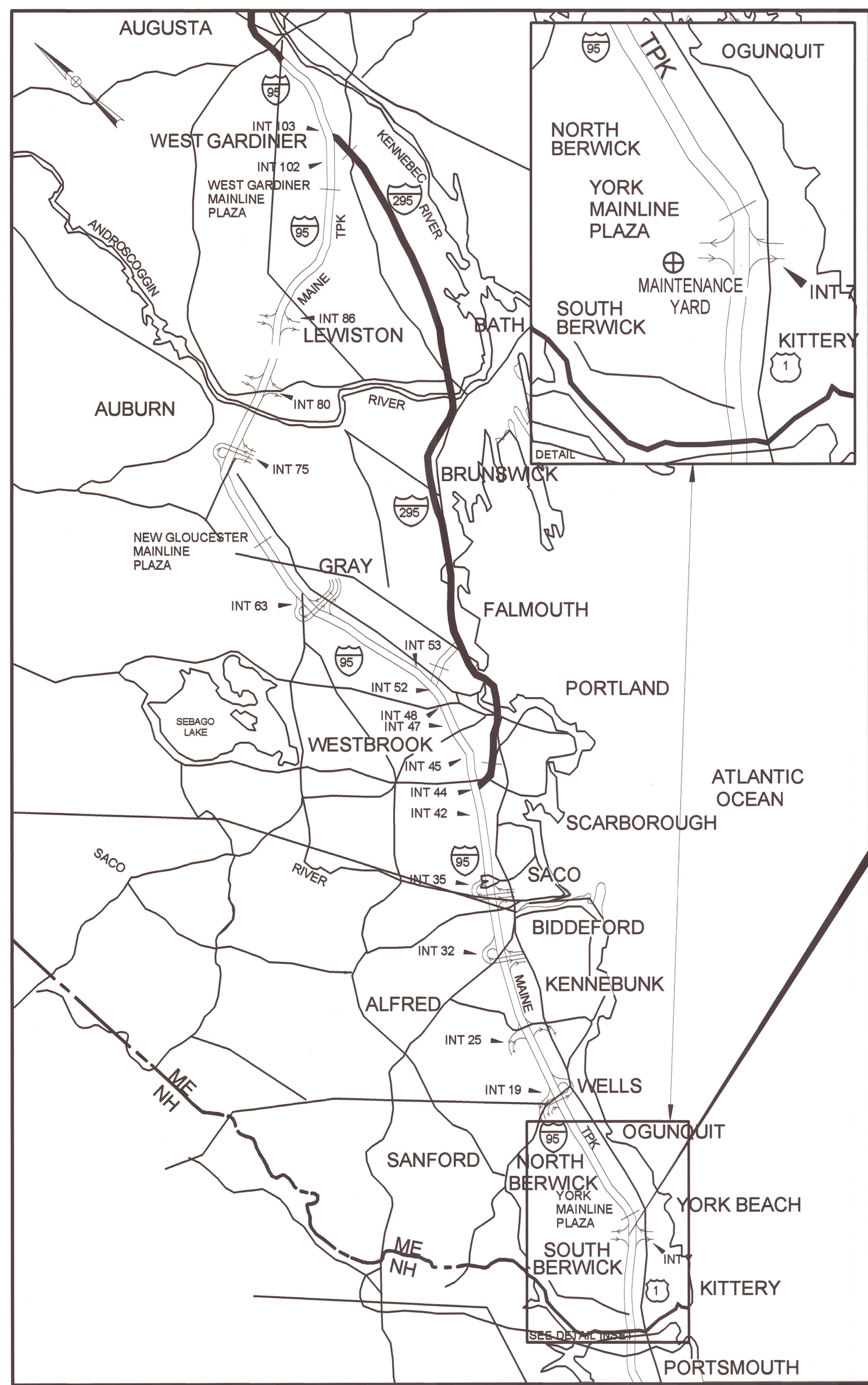




# THE GOLD STAR MEMORIAL HIGHWAY

## MAINE TURNPIKE AUTHORITY



CONTRACT 2024.09  
YORK VEHICLE STORAGE  
MILE MARKER 6.8

DANIEL E. WATHEN, CHAIR  
MICHAEL J. CIANCHETTE, MEMBER  
JANE L. LINCOLN, MEMBER  
ANDREW McLEAN, MEMBER  
THOMAS J. ZUKE, MEMBER  
BRUCE A. VAN NOTE, MEMBER EX-OFFICIO - MAINE DOT

S. PETER MILLS, EXECUTIVE DIRECTOR

# CONTRACT 2024.09 YORK VEHICLE STORAGE GARAGE

INDEX OF SHEETS	
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G-000	COVER SHEET
C-001	GENERAL NOTES
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C-101	SITE AND UTILITY PLAN
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PL-100	SANITARY PIPING PLAN
PP-100	DOMESTIC PIPING PLAN
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ES100	ELECTRICAL SITE PLAN
E000	ELECTRICAL LEGEND
E001	ELECTRICAL GENERAL NOTES AND SCHEDULES
EL100	LIGHTING PLAN
EP100	POWER AND SYSTEMS PLAN

Contract 2024.09

LOCATION MAP

ISSUED FOR BID  
MARCH 25, 2024

**Allied Engineering**  
Structural Mechanical Electrical Plumbing  
160 Veranda Street  
Portland, Maine 04103  
P: 207.221.2260  
F: 207.221.2266  
Web: www.allied-eng.com

APPROVED:

MAINE TURNPIKE AUTHORITY

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

3/26/24  
DATE

*Stephen R. Tartre*  
STEPHEN R. TARTRE, P.E. - DIRECTOR OF ENGINEERING

3/26/24  
DATE

*John W. Cannell*  
JOHN W. CANNELL, P.E. - DIRECTOR OF MAINTENANCE

3/27/24  
DATE

*William P. Faucher*

WILLIAM P. FAUCHER, P.E. -  
PRINCIPLE @ ALLIED ENGINEERING, INC.

03-25-2024  
DATE

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**GENERAL**

1. ALL DETAILS SHALL BE IN CONFORMANCE WITH MAINE DEPARTMENT OF TRANSPORTATION (MAINEDOT) STANDARD DETAILS HIGHWAYS AND BRIDGES 2020 WITH UPDATES AND MAINEDOT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL LATEST REVISION UNLESS OTHERWISE INCLUDED IN THESE PLANS OR PROJECT SPECIFICATIONS.
2. ALL EXISTING ROADWAYS USED IN ACCESSING THE SITE SHALL REMAIN CLEAN.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED STAGING AREA(S) AND FIELD TRAILER LOCATION TO THE RESIDENT FOR APPROVAL, AS WELL AS A SEQUENCE OF WORK SCHEDULE, AT LEAST 10 DAYS PRIOR TO STARTING WORK. CONTRACTOR IS REQUIRED TO MAINTAIN SAFE ACCESS TO PARKING AREAS FOR MTA EMPLOYEES AT ALL TIMES DURING CONSTRUCTION.
4. DUST CONTROL IS INCIDENTAL TO CONTRACT.
5. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
6. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THIS PLAN SET IS FOR THE USE OF THE BIDDERS AND THE CONTRACTOR. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF ACTUAL SUBSURFACE CONDITIONS OF THE CONSTRUCTION SITE. THE MTA WILL NOT BE RESPONSIBLE FOR THE BIDDERS' OR CONTRACTOR'S INTERPRETATIONS OF, OR CONCLUSIONS DRAWN FROM, THE GEOTECHNICAL INFORMATION.
7. CONTRACTOR SHALL PROVIDE MTA WITH AS-CONSTRUCTED PLANS IN PDF AND CADD FORMATS. THE PLANS SHALL NOTE ALL CHANGES TO, BUT NOT LIMITED TO: PAVEMENT, UTILITIES, DRAINAGE, FOUNDATIONS, WIRING, ETC.
8. SURVEY AND TOPOGRAPHY PROVIDED BY TITCOMB ASSOCIATES OF FALMOUTH, MAINE, DATED APRIL 23, 2020.
9. ALL DIVISION 2 SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, HIGHWAYS AND BRIDGES, (2014 EDITION) AND AS MODIFIED BY MAINE TURNPIKE 2016 SUPPLEMENTAL SPECIFICATIONS. SPECIAL PROVISIONS HAVE BEEN PREPARED FOR WORK ITEMS NOT ADDRESSED IN THE STANDARD SPECIFICATIONS, AND ARE ENCLOSED AS PART OF THIS CONTRACT. IN THE EVENT OF A CONFLICT BETWEEN THE STANDARD SPECIFICATIONS AND THE SUPPLEMENTAL SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL APPLY.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL SPOIL/EXCESS MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.
11. ALL AREAS OUTSIDE THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO PRIOR CONDITIONS AT NO EXPENSE TO THE OWNER.
12. BORING AND SOIL PROBE LOCATIONS TAKEN FROM GEOTECHNICAL REPORT PREPARED BY S.W. COLE DATED MAY 27, 2020.
13. AREAS OF CLEARING SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE RESIDENT.
14. DURING CONSTRUCTION, THE PROPANE TANKS SHALL BE PROTECTED BY A PHYSICAL BARRIER AT ALL TIMES, ON ALL SIDES.
15. A MINIMUM OF 3' CLEAR SPACE SHALL BE PERMITTED BETWEEN BOLLARDS IN FRONT OF THE PROPANE TANK. BOLLARDS SHALL BE PLACED ON ALL SIDES THAT COULD BE IMPACTED BY VEHICLES.
16. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE THE AUTHORITY THREE HARD COPIES OF ALL O&M MANUALS ASSOCIATED WITH THE PROJECT AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT CONTAINING ALL O&M MANUALS IN A SINGLE FILE.
17. FOLLOWING THE COMPLETION OF WORK THE CONTRACTOR SHALL PROVIDE ONE HARD COPY AND ONE LINKED, TABBED, AND SEARCHABLE PDF DOCUMENT OF ALL APPROVED SUBMITTALS ASSOCIATED WITH THE PROJECT ORGANIZED BY WORK CATEGORY.
18. A HIGHWAY CLASS PAVER WITH AN EIGHT TO TEN FOOT SCREED (CAT AP555E OR SIMILAR) WILL BE ALLOWED.

**EARTHWORK**

1. EXCAVATIONS ACCOMPLISHED AS PART OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH OSHA SUBPART P OF 29 CFR PART 1926.650-652 (CONSTRUCTION STANDARDS FOR EXCAVATION).
2. THE NORMAL GRUBBING WIDTH IN THE FILLS SHALL BE VARIABLE WHEN SUBGRADE IS LESS THAN 5' ABOVE OLD GROUND. THE GRUBBING DEPTH HAS BEEN ESTIMATED AS 6" IN FIELD AREAS AND 12" IN WOODED AREAS.
3. ALL ABOVE GROUND FEATURES AND BELOW GROUND OBSTRUCTIONS, (UTILITIES, FOUNDATIONS, ETC.) ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED AND DISPOSED OF AS NECESSARY TO ENABLE WORK TO BE COMPLETED. UNDERGROUND UTILITIES LABELED "TO REMAIN" SHALL BE PROTECTED. SAVING OR REMOVAL OF UNDERGROUND OBSTRUCTIONS NOT SHOWN ON THE PLAN SHALL BE COORDINATED WITH THE PROJECT OWNER OR THEIR REPRESENTATIVE.
4. WASTE MATERIALS SHALL BE DISPOSED OF OFF THE PROJECT SITE, IN ACCORDANCE WITH CHAPTER 404, DEPARTMENT OF ENVIRONMENTAL PROTECTION SOLID WASTE MANAGEMENT RULES.
5. REMOVAL OF EXISTING PAVEMENT, WITHIN THE AREAS OF FULL DEPTH PAVEMENT AND FULL DEPTH RECONSTRUCTION, SHALL BE PAID FOR AS COMMON EXCAVATION. EXISTING PAVEMENT THICKNESS HAS BEEN ESTIMATED TO BE 7 INCHES.
6. GRANULAR BORROW SHALL BE USED IN THE AREAS SPECIFIED ON THE PLANS. AND TO BACKFILL AREAS OF MUCK EXCAVATION AND IN LOW WET AREAS TO 1' ABOVE THE WATER LEVEL OR OLD GROUND. GRANULAR BORROW USED TO FILL MUCK OR WET AREAS SHALL MEET THE REQUIREMENTS OF GRANULAR BORROW-UNDERWATER BACKFILL. MATERIALS EXCAVATED FROM ON SITE MEETING THE

- REQUIREMENTS OF GRANULAR BORROW OR GRANULAR BORROW-UNDERWATER BACKFILL SHALL BE REUSED ON SITE. EACH REQUIRED HANDLING OF THE MATERIAL SHALL BE MEASURED FOR PAYMENT AS COMMON EXCAVATION.
7. TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR THE REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.
  8. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
  9. ALL SITE DISTURBANCE WILL REMAIN WITHIN THE GRADING LIMITS SHOWN ON PLANS. NO IMPACT TO WETLANDS ARE AUTHORIZED.
  10. REFER TO THE GEOTECHNICAL REPORT BY S.W. COLE DATED MAY 27, 2020 FOR RECOMMENDATIONS ON SITE AND SUBGRADE PREPARATION.

**UTILITY**

1. EXISTING UTILITIES ON THESE PLANS WERE COMPILED FROM FIELD SURVEY AND VARIOUS OTHER SOURCES. LOCATIONS ARE NOT GUARANTEED TO BE ACCURATE NOR IS IT GUARANTEED THAT ALL UTILITIES ARE SHOWN. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND THE ACTUAL FIELD CONDITIONS ENCOUNTERED. NO WORK SHALL BE STARTED UNTIL THE OWNERS OF THE VARIOUS UTILITIES ARE NOTIFIED BY THE CONTRACTOR OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ALSO REQUIRED TO CALL DIG SAFE AT 1-888-344-7233 PRIOR TO THE START OF THE WORK.
2. THE UTILITIES INVOLVED IN THIS CONTRACT ARE:  
 MAINE TURNPIKE AUTHORITY  
 CENTRAL MAINE POWER  
 FAIRPOINT/CONSOLIDATED COMMUNICATIONS  
 SPECTRUM/CHARTER COMMUNICATIONS
3. THE CONTRACTOR SHALL NOTIFY THE RESIDENT 10 DAYS PRIOR TO CONSTRUCTION SO THE RESIDENT CAN ARRANGE FOR MAINE TURNPIKE UNDERGROUND UTILITY LOCATION. ALL PROPOSED EXCAVATION LOCATIONS SHALL BE MARKED AT THE NOTIFICATION TIME. EXCAVATION WILL NOT BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS' UNDERGROUND UTILITIES, OR NOTIFIED THE RESIDENT THERE ARE NO UNDERGROUND UTILITIES IN THE MARKED AREAS. THE AUTHORITY HAS PROGRAMMED TWO FIELD VISITS FOR MAINE TURNPIKE UTILITY COORDINATION ON THIS PROJECT. SHOULD THE CONTRACTOR NEED ADDITIONAL EXCAVATION LOCATIONS MARKED, OR SHOULD THE CONTRACTOR FAIL TO MAINTAIN THE AUTHORITY'S PREVIOUSLY ESTABLISHED DIG SAFE MARKS, THE AUTHORITY SHALL DEDUCT THE ADDED MARKING COSTS FROM THE CONTRACTOR'S PAYMENTS.
4. THE CONTRACTOR SHALL NOTIFY ALL NONMEMBERS THROUGH WWW.OKtoDIG.COM OR AS OTHERWISE REQUIRED BY THE MAINE PUBLIC UTILITIES COMMISSION. NO EXCAVATION SHALL BE PERMITTED UNTIL THE AUTHORITY HAS LOCATED AND MARKED ITS UNDERGROUND UTILITIES. THE RESIDENT ENGINEER SHALL BE PROVIDED AN ELECTRONIC COPY OF ALL DIG SAGE TICKETS WITHIN 24 HOURS OF THEIR RELEASE FOR PROJECT NOTIFICATIONS AND 3RD PARTY UTILITY LOCATOR COORDINATION.
5. FOLLOWING THE COMPLETION OF THE INITIAL UTILITY LOCATE, THE CONTRACTOR WILL GPS ALL UTILITIES WITHIN THE PROJECT LIMITS AND PROVIDE A COPY OF THE DIG SAFE RECORDS TO THE AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMARKING ALL MTA UNDERGROUND UTILITIES WHEN A DIG SAFE UTILITY LOCATE IS CALLED IN FOR THE PROJECT.
6. CONTRACTOR SHALL PROTECT ALL NEW AND EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION AS APPROVED BY THE UTILITY OWNERS. SEE SPECIFICATIONS FOR REQUIRED UTILITY COORDINATION.
7. EXCEPT AS ALLOWED IN THE PROJECT SPECIFICATIONS OR APPROVED BY THE RESIDENT, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES IN SERVICE AT ALL TIMES.
8. IF THE CONTRACTOR DAMAGES UTILITY SERVICES, HE SHALL IMMEDIATELY NOTIFY THE RESPECTIVE UTILITY COMPANY AND SHALL IMMEDIATELY REPLACE THEM AT HIS OWN EXPENSE.
9. DURING CONSTRUCTION, THE PROPANE TANKS SHALL BE PROTECTED AT ALL TIMES.
10. THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS AND CONSTRUCTION DRAWINGS FOR THE CONCRETE PROPANE TANK PAD, IN ACCORDANCE WITH SPECIAL PROVISION 502.

**EROSION CONTROL**

1. THE ANTICIPATED EROSION CONTROL DEVICES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROPOSED ACTUAL TYPE AND LOCATION OF DEVICES FOR APPROVAL BY THE RESIDENT. ADDITIONAL MEASURES MAY BE PROPOSED BY THE CONTRACTOR DUE TO SITE OR WEATHER CONDITIONS. THE RESIDENT MAY DIRECT THE CONTRACTOR TO IMPLEMENT ADDITIONAL MEASURES. ANY ADDITIONAL MEASURES APPROVED BY THE RESIDENT WILL BE MEASURED FOR PAYMENT.
2. 4" LOAM HAS BEEN ESTIMATED FOR 100% OF THE DISTURBED SLOPE AREA UNLESS OTHERWISE SPECIFIED ON THE PLANS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS DESIGNATED BY THE RESIDENT.
3. UNLESS OTHERWISE NOTED, SEEDING METHOD NO. 1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS. SEEDING METHOD NO. 2 SHALL BE USED ON ALL OTHER AREAS.
4. NEWLY DISTURBED EARTH SHALL BE MULCHED PRIOR TO A RAIN EVENT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED AS

INCIDENTAL TO THE PROJECT.

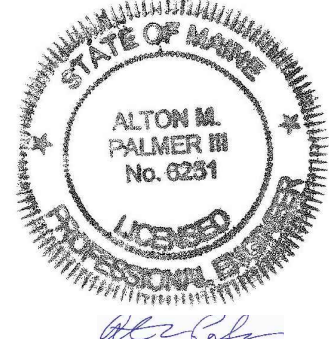

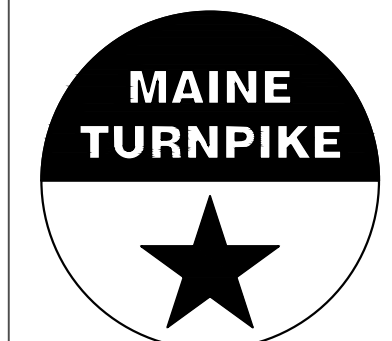
5. ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION BEST MANAGEMENT PRACTICES.
6. TEMPORARY SEED SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE COMPLETED WITHIN 30 DAYS.
7. TEMPORARY EROSION CONTROL BLANKET SHALL BE INSTALLED IN ALL DITCHES AND 2:1 SLOPES FROM TOP TO TOE OF SLOPE. LOAM AND SEED SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE EROSION CONTROL BLANKET. LIMITS OF THE EROSION CONTROL BLANKET IN DITCHES SHALL BE 8' WIDE OR AS DESIGNATED BY THE RESIDENT.
8. TEMPORARY STABILIZATION WITH MULCH OR OTHER NON-ERODIBLE COVER IS REQUIRED ON ALL EXPOSED SOILS THAT WILL NOT BE WORKED ON FOR MORE THAN 7 DAYS. AREAS WITHIN 75 SHEET OF A WETLAND OR WATERBODY SHALL BE STABILIZED WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
9. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LAST PRACTICAL DISTURBANCE OF THE SITE.
10. PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND SEDIMENTATION BARRIERS.
11. WATER FROM DEWATERING SHALL BE PUMPED THROUGH A DIRT BAG (SEE DETAIL). DIRT BAG OUTLET LOCATION SHALL NOT BE WITHIN 50' OF AN EXISTING WETLAND. NO SEPARATE PAYMENT WILL BE MADE TO CONTRACTOR FOR PROVIDING THE DIRT BAG, IT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

**PAVING**

1. REFER TO THE SPECIAL PROVISIONS FOR INFORMATION REGARDING PAVEMENT AND TACK COAT SPECIFICATIONS.

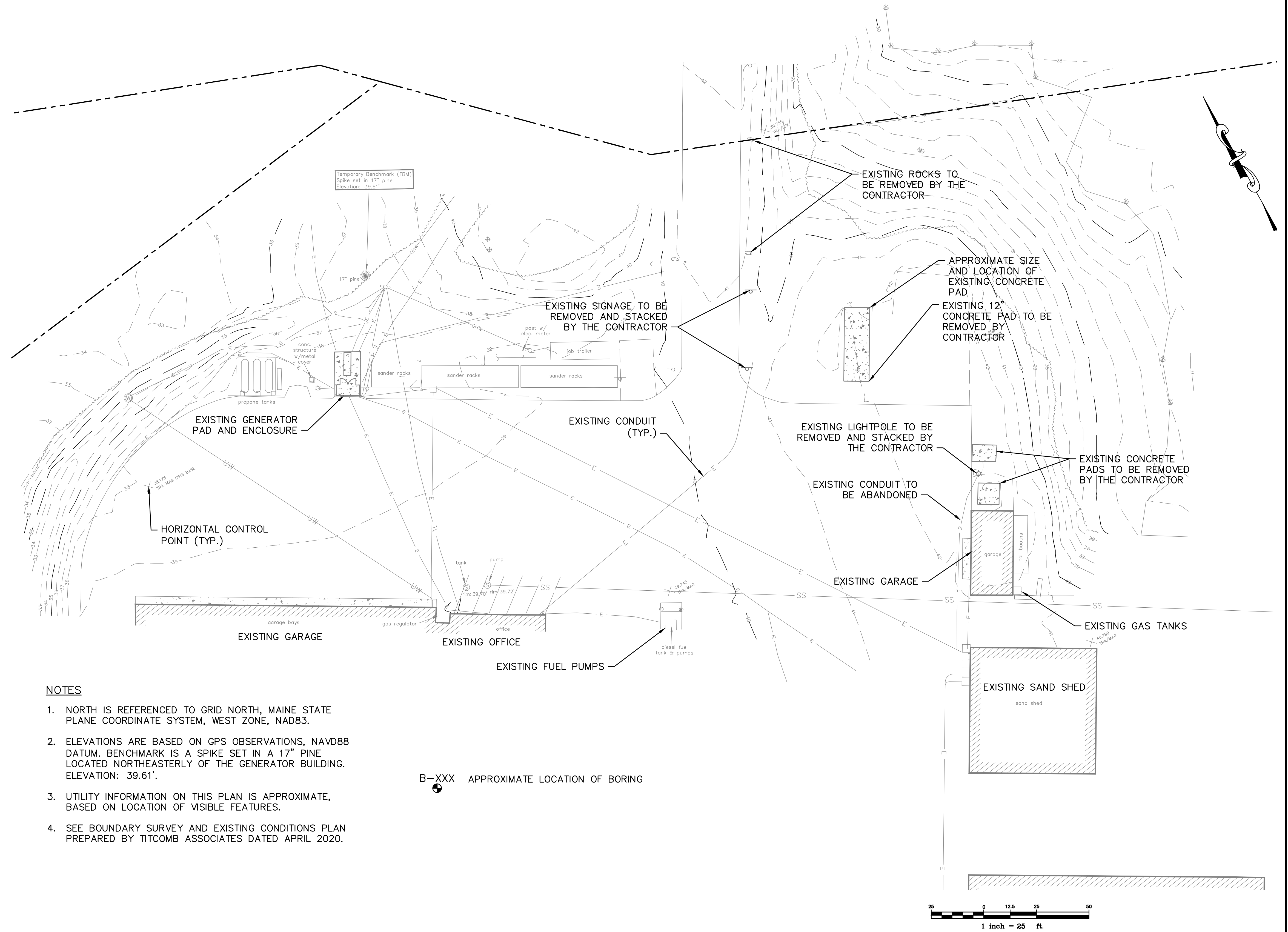
**DRAINAGE**

1. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
2. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
3. ONE GREEN DELINEATOR POST SHALL BE INSTALLED AT ALL UNDERDRAIN AND STORM DRAIN OUTLETS.

Scale: N/A	Designed by: ALTON M. PALMER, P.E. MATT RABASCO, P.E.				<b>THE GOLD STAR MEMORIAL HIGHWAY</b>	<b>CONTRACT 2024.09 YORK VEHICLE STORAGE GARAGE GENERAL NOTES</b>																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		No.	Revision	By	Date													ISSUED FOR BID - NOT FOR CONSTRUCTION				SHEET NUMBER: C-001
No.	Revision	By	Date																			
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed: MYR</td> <td>03/25/24</td> <td>Checked: AMP</td> <td>03/25/24</td> </tr> <tr> <td>Drawn: CEH</td> <td>03/25/24</td> <td></td> <td></td> </tr> </tbody> </table>	By	Date	By	Date	Designed: MYR	03/25/24	Checked: AMP	03/25/24	Drawn: CEH	03/25/24			PROJ.NO.: 3660    CAD FILE: 3660-GENERAL NOTES 2024.dwg	MTA PROJECT MANAGER: <b>Brian A. Taddeo, P.E.</b>	CONTRACT: 2024.09    2 OF 32					
By	Date	By	Date																			
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**CIVIL LEGEND**

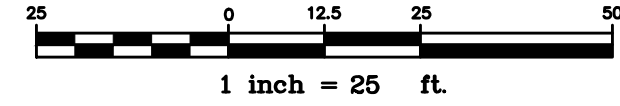
SYMBOL	DESCRIPTION
---	EXISTING RIGHT-OF-WAY
---	EXISTING SETBACK
---	EXISTING EDGE OF PAVEMENT
---	EXISTING TREELINE
X	EXISTING CHAINLINK FENCE
---	EXISTING GUARDRAIL
---	EXISTING CONTOUR
---	EXISTING BUILDING
UG	EXISTING UNDERGROUND GAS
OHW	EXISTING OVERHEAD WIRE
UC	EXISTING UNDERGROUND CABLE
UW	EXISTING UNDERGROUND WATER
UE	EXISTING UNDERGROUND ELECTRIC
---	EXISTING UNDERGROUND STORM DRAIN
15' ROP SD	EXISTING CATCH BASIN
---	EXISTING FREE STANDING SIGN
---	EXISTING WATER SHUT OFF
---	EXISTING LIGHT POLE
---	EXISTING PROPANE TANK
---	EXISTING UTILITY POLE
---	EXISTING HYDRANT
---	PROPOSED VERTICAL GRANITE CURB
---	PROPOSED EDGE OF BUILDING
---	PROPOSED GUARDRAIL
---	PROPOSED CONCRETE
---	PROPOSED EDGE OF PAVEMENT
---	PROPOSED CONTOUR
---	PROPOSED SEWER
---	PROPOSED WATER
---	PROPOSED UNDERGROUND ELECTRIC
---	PROPOSED PROPANE LINE
---	PROPOSED SILT FENCE
GP11-201	2019 SOIL PROBE LOCATION
B11-101	2019 BORING LOCATION



**NOTES**

1. NORTH IS REFERENCED TO GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83.
2. ELEVATIONS ARE BASED ON GPS OBSERVATIONS, NAVD88 DATUM. BENCHMARK IS A SPIKE SET IN A 17" PINE LOCATED NORTHEASTERLY OF THE GENERATOR BUILDING. ELEVATION: 39.61'.
3. UTILITY INFORMATION ON THIS PLAN IS APPROXIMATE, BASED ON LOCATION OF VISIBLE FEATURES.
4. SEE BOUNDARY SURVEY AND EXISTING CONDITIONS PLAN PREPARED BY TITCOMB ASSOCIATES DATED APRIL 2020.

B-XXX APPROXIMATE LOCATION OF BORING



Scale: 1"=25'

No.	Revision	By	Date

Designed by:  
ALTON M. PALMER, P.E.  
MATT RABASCO, P.E.

ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: MYR	03/25/24	Checked: AMP	03/25/24
Drawn: CEH	03/25/24		

**GORRILL PALMER**

**THE GOLD STAR MEMORIAL HIGHWAY**

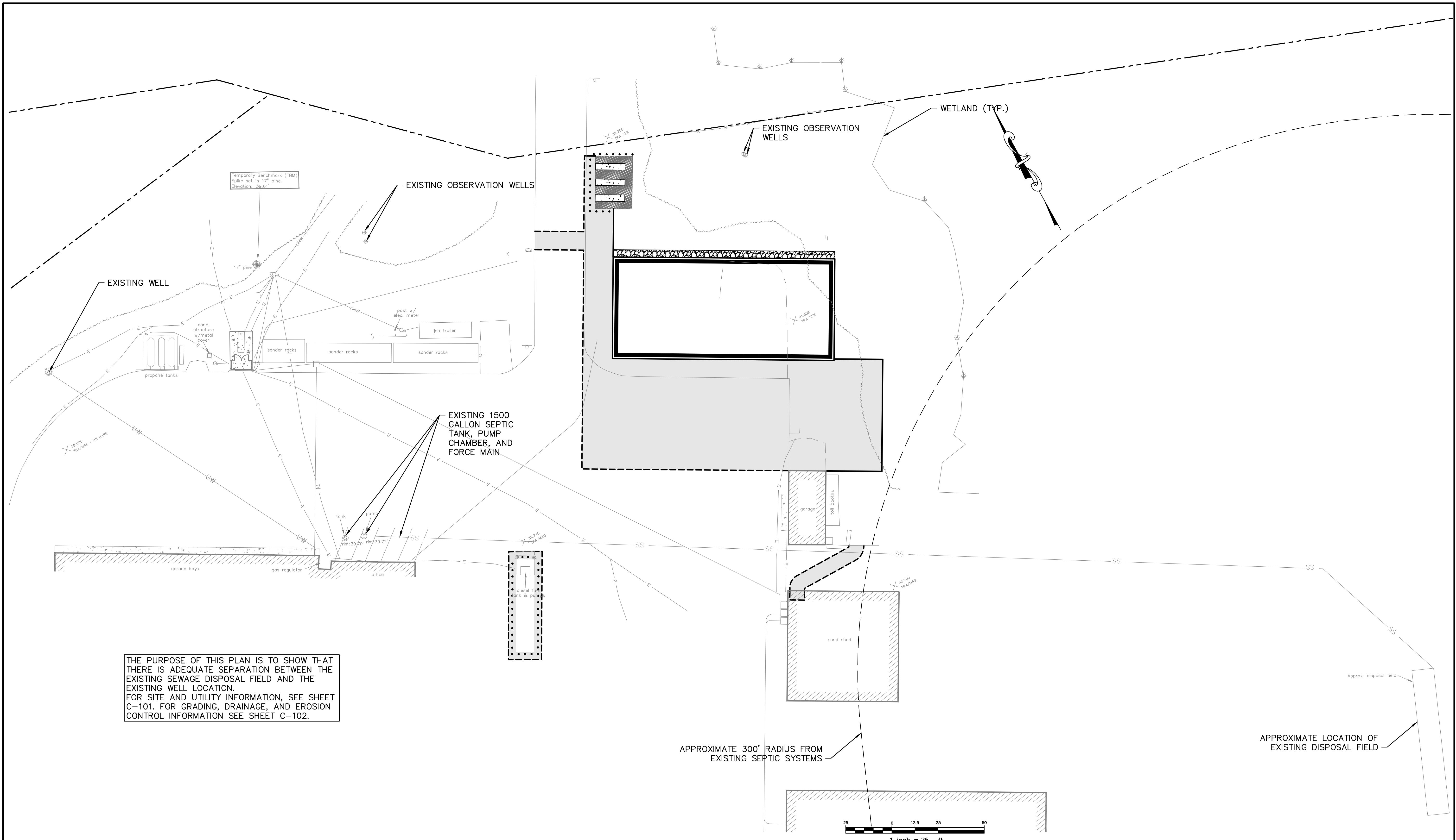
MTA PROJECT MANAGER: **Brian A. Taddeo, P.E.**

**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**EXISTING CONDITIONS AND REMOVALS PLAN**

SHEET NUMBER: C-002

CONTRACT: 2024.09 3 OF 32

PROJ.NO.: 3660 CAD FILE: 3660-DEMO 2024.dwg



THE PURPOSE OF THIS PLAN IS TO SHOW THAT THERE IS ADEQUATE SEPARATION BETWEEN THE EXISTING SEWAGE DISPOSAL FIELD AND THE EXISTING WELL LOCATION. FOR SITE AND UTILITY INFORMATION, SEE SHEET C-101. FOR GRADING, DRAINAGE, AND EROSION CONTROL INFORMATION SEE SHEET C-102.

Scale:  
1"=25'

No.	Revision	By	Date

Designed by:  
ALTON M. PALMER, P.E.  
MATT RABASCO, P.E.

ISSUED FOR BID - NOT FOR CONSTRUCTION

Designed:	By	Date	Checked:	By	Date
MYR	CEH	03/25/24	AMP	AMP	03/25/24

**GORRILL PALMER**

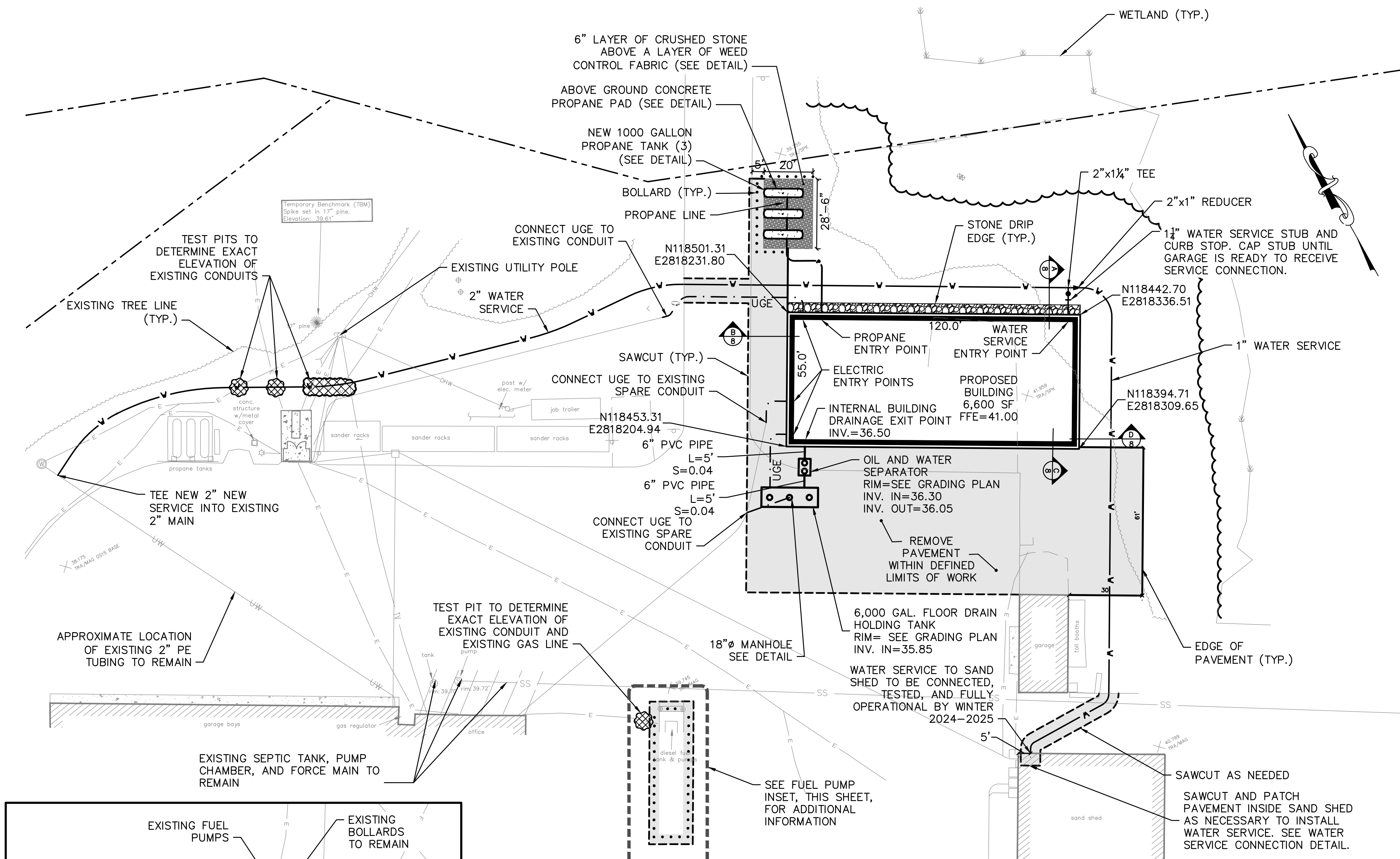
**THE GOLD STAR MEMORIAL HIGHWAY**

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
SEWER AND WELL SEPARATION PLAN

SHEET NUMBER: C-100

CONTRACT: 2024.09

4 OF 32



**CONCRETE PROPANE TANK PAD - LAYOUT DATA**

LOCATION	NORTHING	EASTING
NORTHWEST CORNER	118550.39	2818247.81
NORTHEAST CORNER	118542.58	2818261.77
SOUTHEAST CORNER	118539.52	2818260.06
SOUTHWEST CORNER	118547.34	2818246.10

**CONCRETE PROPANE TANK PAD - LAYOUT DATA**

LOCATION	NORTHING	EASTING
NORTHWEST CORNER	118542.97	2818243.65
NORTHEAST CORNER	118535.16	2818257.62
SOUTHEAST CORNER	118532.10	2818255.91
SOUTHWEST CORNER	118539.92	2818241.95

**CONCRETE PROPANE TANK PAD - LAYOUT DATA**

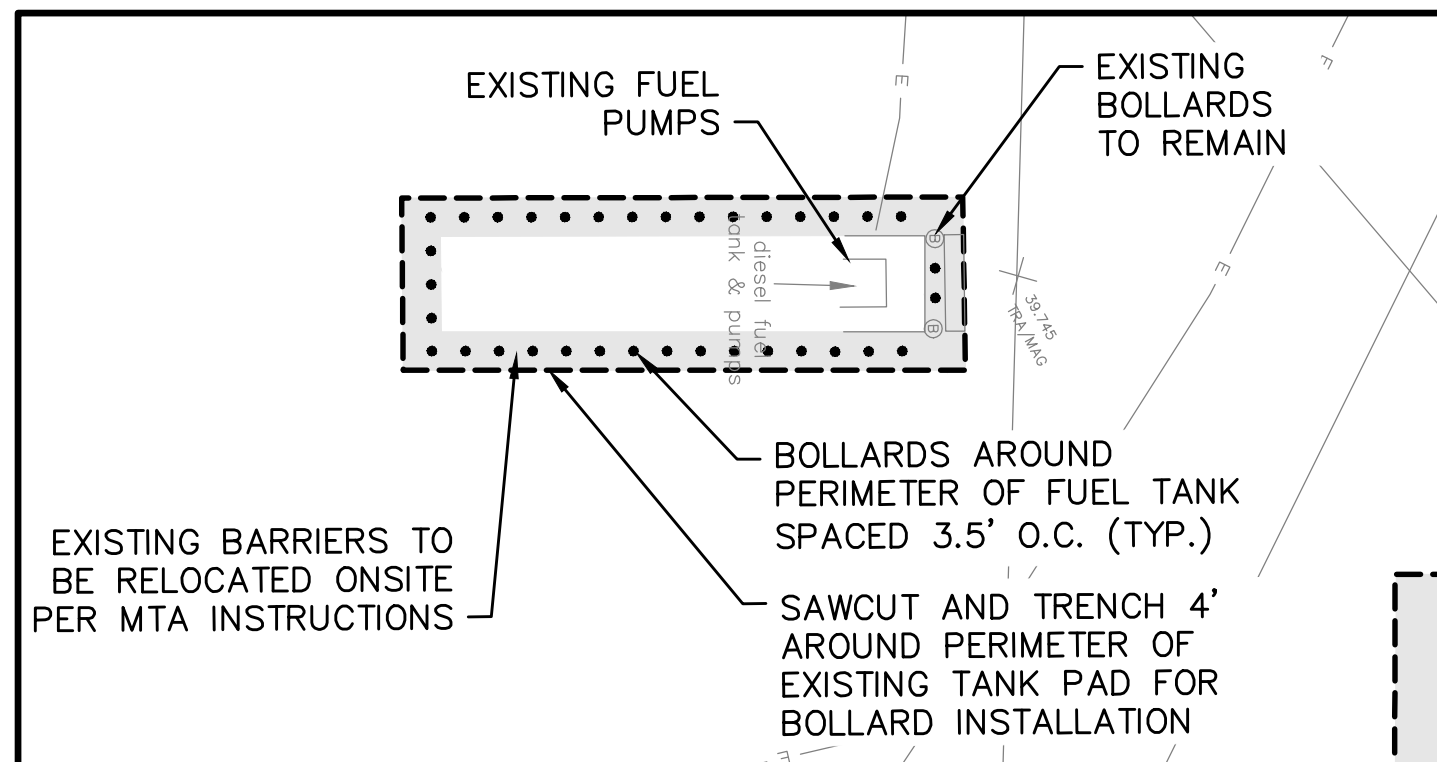
LOCATION	NORTHING	EASTING
NORTHWEST CORNER	118535.56	2818239.50
NORTHEAST CORNER	118527.74	2818253.47
SOUTHEAST CORNER	118524.69	2818251.76
SOUTHWEST CORNER	118532.50	2818237.79

**OIL AND WATER SEPARATOR - LAYOUT DATA**

LOCATION	NORTHING	EASTING
NORTHWEST CORNER	118446.46	2818207.02
NORTHEAST CORNER	118444.07	2818211.22
SOUTHEAST CORNER	118438.13	2818207.85
SOUTHWEST CORNER	118440.52	2818203.64

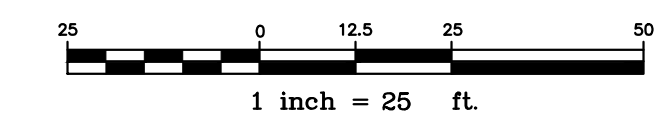
**6,000 GALLON HOLDING TANK - LAYOUT DATA**

LOCATION	NORTHING	EASTING
NORTHWEST CORNER	118443.54	2818187.97
NORTHEAST CORNER	118432.21	2818208.21
SOUTHEAST CORNER	118425.23	2818204.31
SOUTHWEST CORNER	118436.56	2818184.06



**FUEL PUMP BOLLARD INSET**  
1"=20'

- UTILITY CONSTRUCTION SEQUENCING NOTES:**
- 2" WATER SERVICE, 2"x1 1/4" TEE, 1 1/2" STUB & CURB STOP, 2"x1" REDUCER, AND 1" WATER SERVICE TO SAND SHED ARE TO BE INSTALLED AS PART OF INITIAL PHASE OF WORK. 1" WATER SERVICE TO SAND SHED SHALL BE CONNECTED, TESTED, AND FULLY OPERATIONAL BY WINTER 2024-2025. 1 1/2" WATER SERVICE TO GARAGE SHALL BE EXTENDED FROM STUB IN SUBSEQUENT PHASE OF WORK.



**PAVEMENT LEGEND**

[Pattern]	HEAVY DUTY BITUMINOUS PAVEMENT
[Pattern]	REINFORCED CONCRETE

Scale: 1"=25'

No.	Revision	By	Date

Designed by:  
ALTON M. PALMER, P.E.  
MATT RABASCO, P.E.

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Designed:	By	Date	Checked:	By	Date
	MYR	03/25/24		AMP	03/25/24

Drawn: CEH 03/25/24

GORRILL PALMER

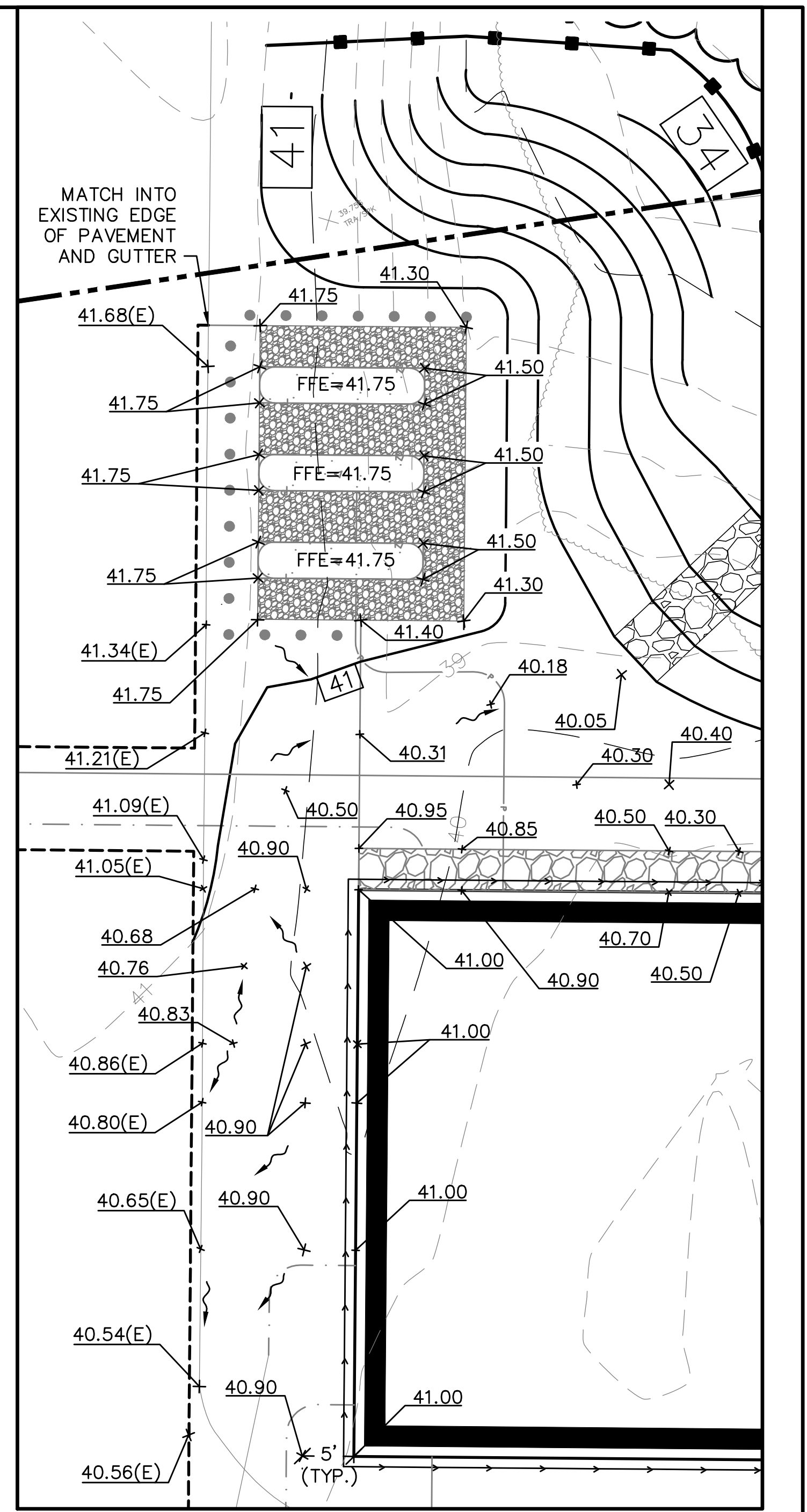
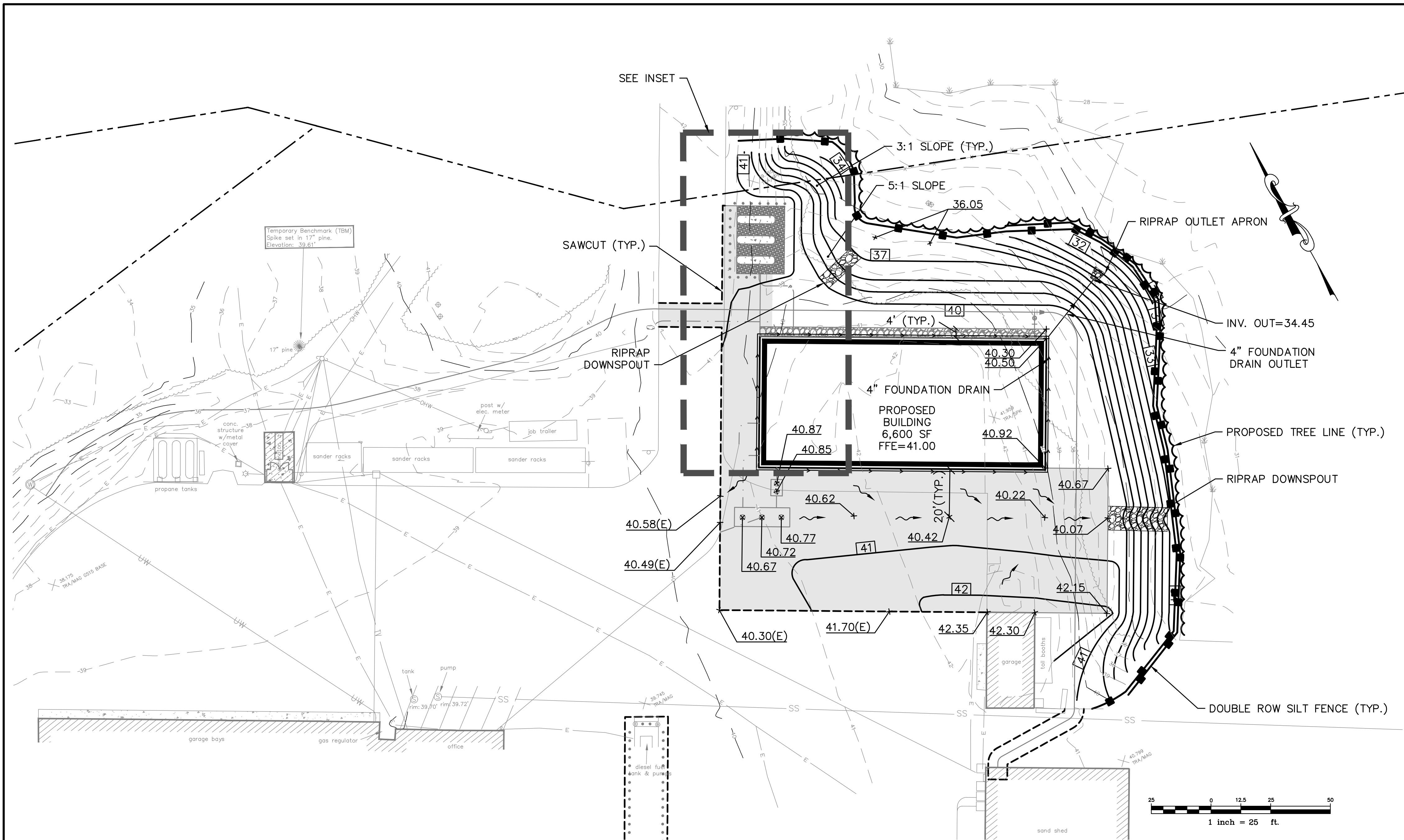
THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
SITE AND UTILITY PLAN

SHEET NUMBER: C-101

CONTRACT: 2024.09 5 OF 32



INSET  
1"=10'

**GENERAL NOTES:**

1. TOTAL "LIMITS OF DISTURBANCE" IS 0.65 ACRES.
2. ADDING 0.27 ACRES OF IMPERVIOUS SURFACE.

**GRADING & DRAINAGE NOTES:**

1. TOPSOIL STRIPPED IN AREAS OF CONSTRUCTION THAT IS SUITABLE FOR REUSE AS LOAM SHALL BE STOCKPILED ON SITE AT A LOCATION TO BE DESIGNATED BY THE OWNER. UNSUITABLE SOIL SHALL BE SEPARATED, REMOVED AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION OFF SITE.
2. THE CONTRACTOR SHALL ANTICIPATE THAT GROUNDWATER WILL BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE SUFFICIENT COSTS WITHIN THEIR BID TO PROVIDE DEWATERING AS NECESSARY. NO SEPARATE PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR DEWATERING.
3. ALL SITE DISTURBANCE WILL REMAIN WITHIN THE GRADING LIMITS SHOWN ON THE PLANS. NO IMPACTS TO WETLANDS ARE AUTHORIZED.

**EROSION CONTROL NOTES:**

1. LAND DISTURBING ACTIVITIES SHALL BE ACCOMPLISHED IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE SITE.
2. PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE PERIMETER SILT FENCES AND SEDIMENTATION BARRIERS.
3. ALL GROUND AREAS DISTURBED FOR CONSTRUCTION WILL BE GRADED, LOAMED AND SEEDING AS SOON AS POSSIBLE.
4. ALL NON-PAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE LOAMED AND SEEDING, UNLESS OTHERWISE DIRECTED BY THE OWNER. ALL DISTURBED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL PRIOR TO PERMANENT SEEDING.
5. WATER FROM DEWATERING SHALL BE PUMPED THROUGH A DIRT BAG (SEE DETAIL). DIRT BAG OUTLET LOCATION SHALL NOT BE WITHIN 50' OF AN EXISTING WETLAND.
6. EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES 2:1 OR STEEPER.

Scale: 1"=25'			
No.	Revision	By	Date

Designed by: ALTON M. PALMER, P.E. MATT RABASCO, P.E.					
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GORRILL PALMER

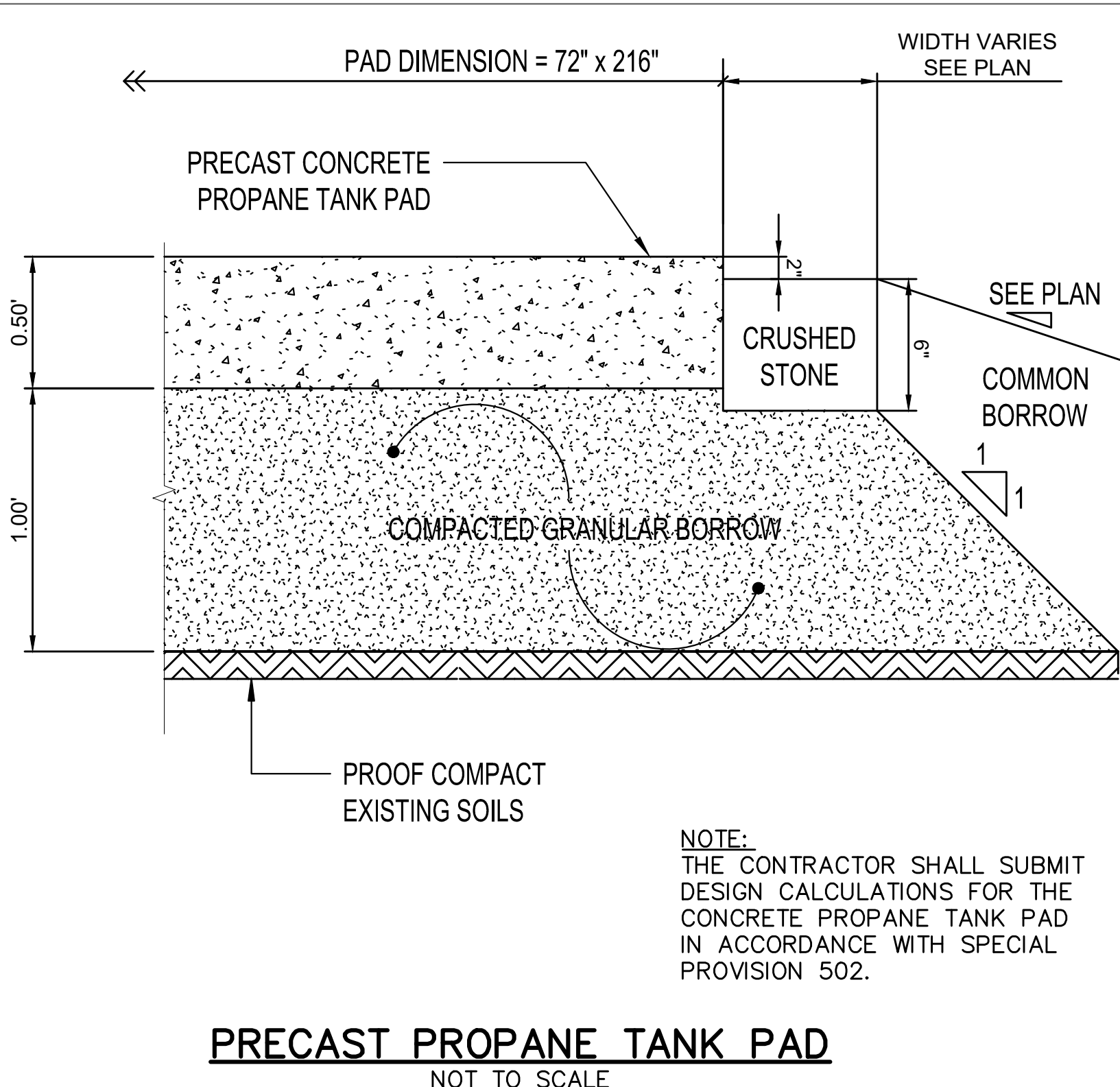
THE GOLD STAR  
MEMORIAL HIGHWAY

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
GRADING, DRAINAGE,  
EROSION CONTROL PLAN

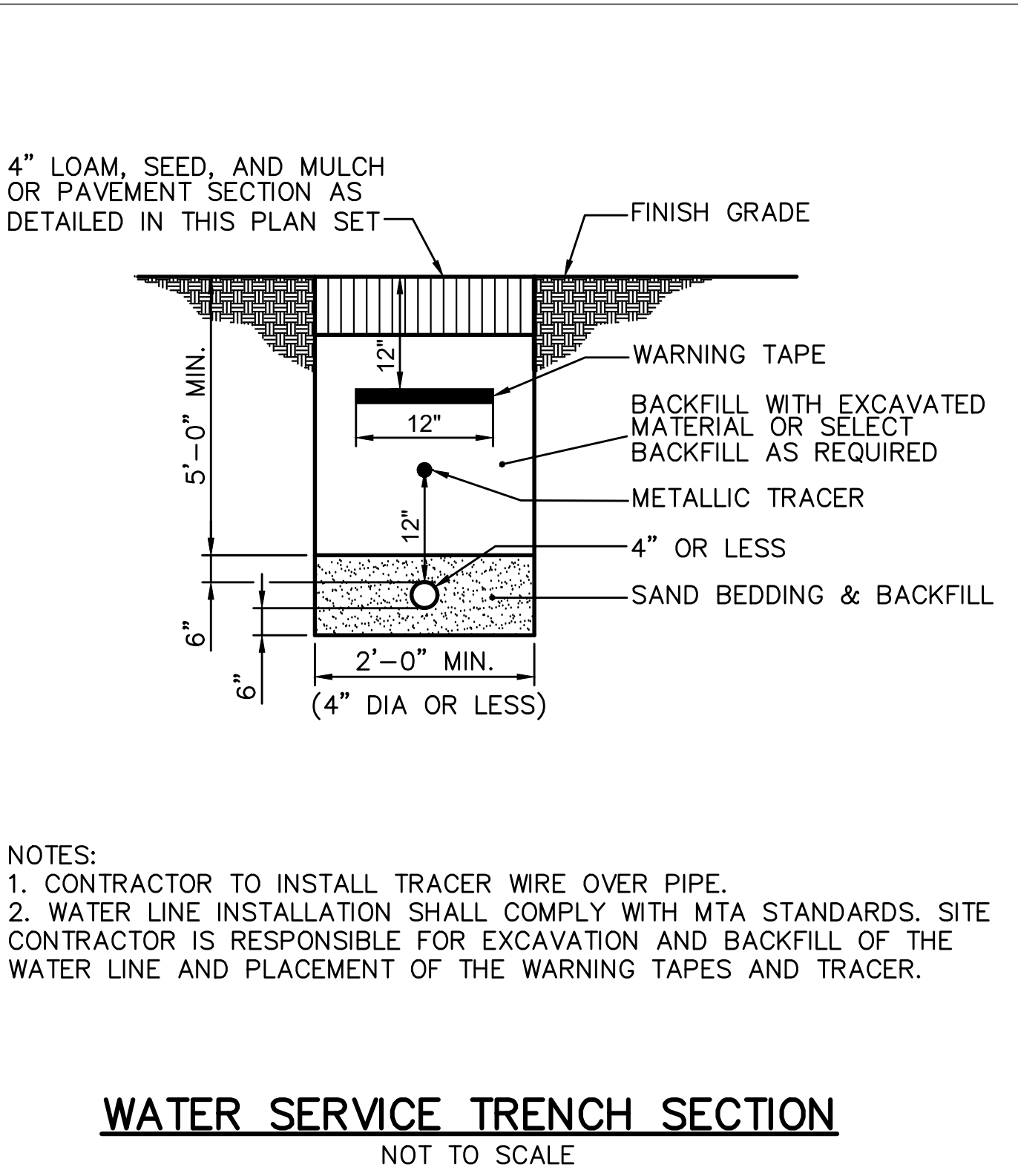
SHEET NUMBER: C-102

CONTRACT: 2024.09

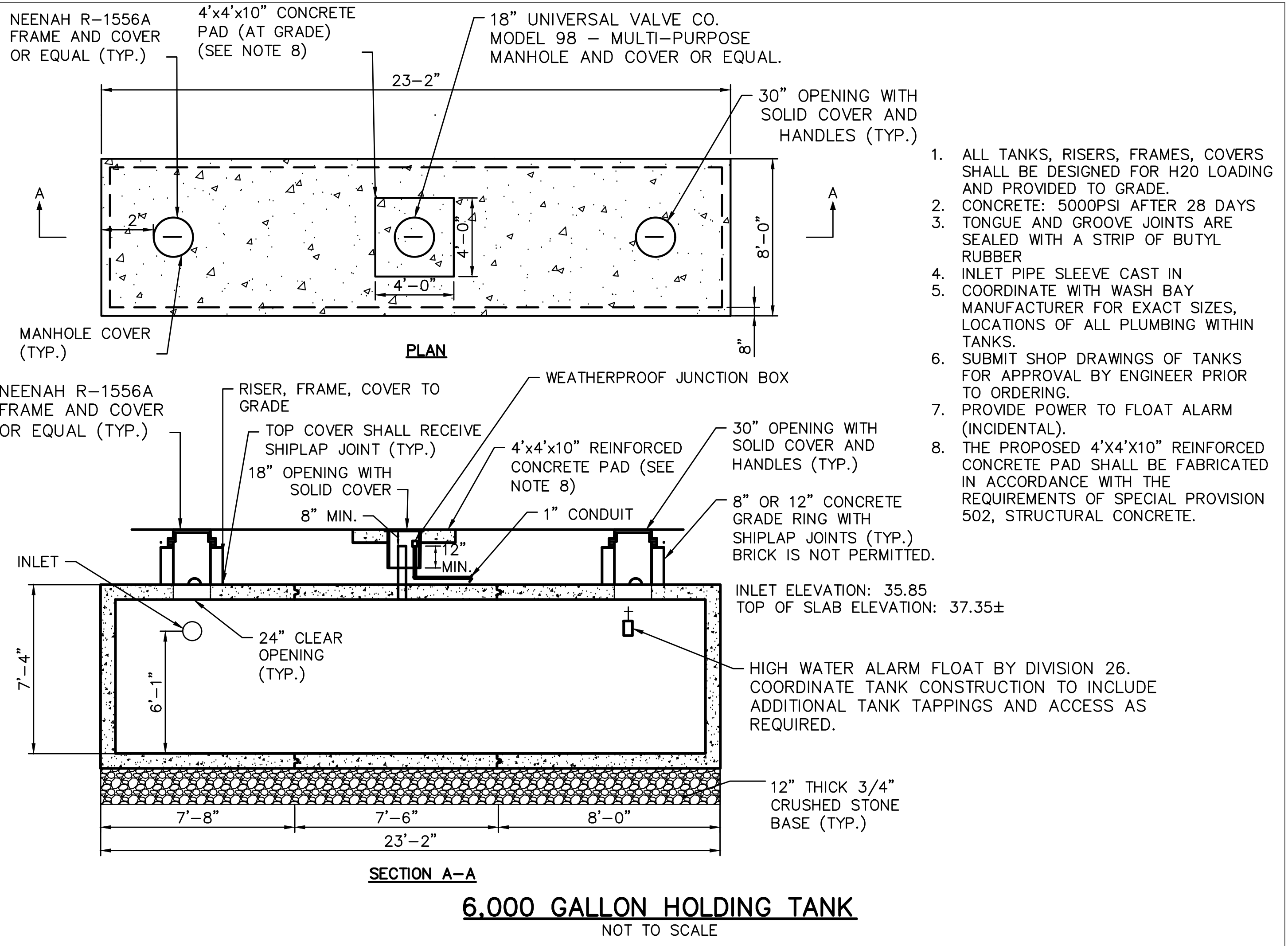
6 OF 32



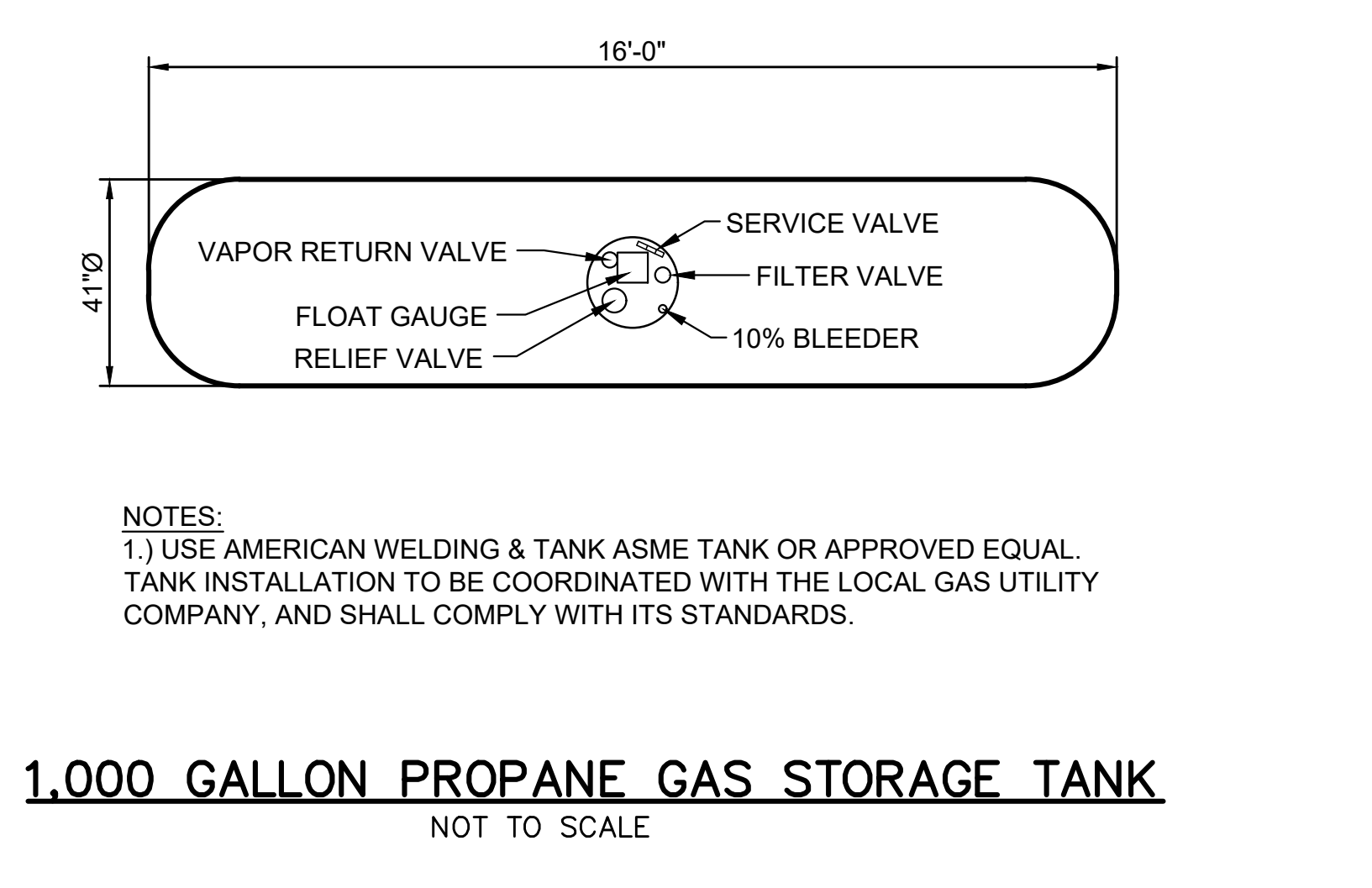
NOTE:  
THE CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS FOR THE CONCRETE PROPANE TANK PAD IN ACCORDANCE WITH SPECIAL PROVISION 502.



NOTES:  
1. CONTRACTOR TO INSTALL TRACER WIRE OVER PIPE.  
2. WATER LINE INSTALLATION SHALL COMPLY WITH MTA STANDARDS. SITE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND BACKFILL OF THE WATER LINE AND PLACEMENT OF THE WARNING TAPES AND TRACER.

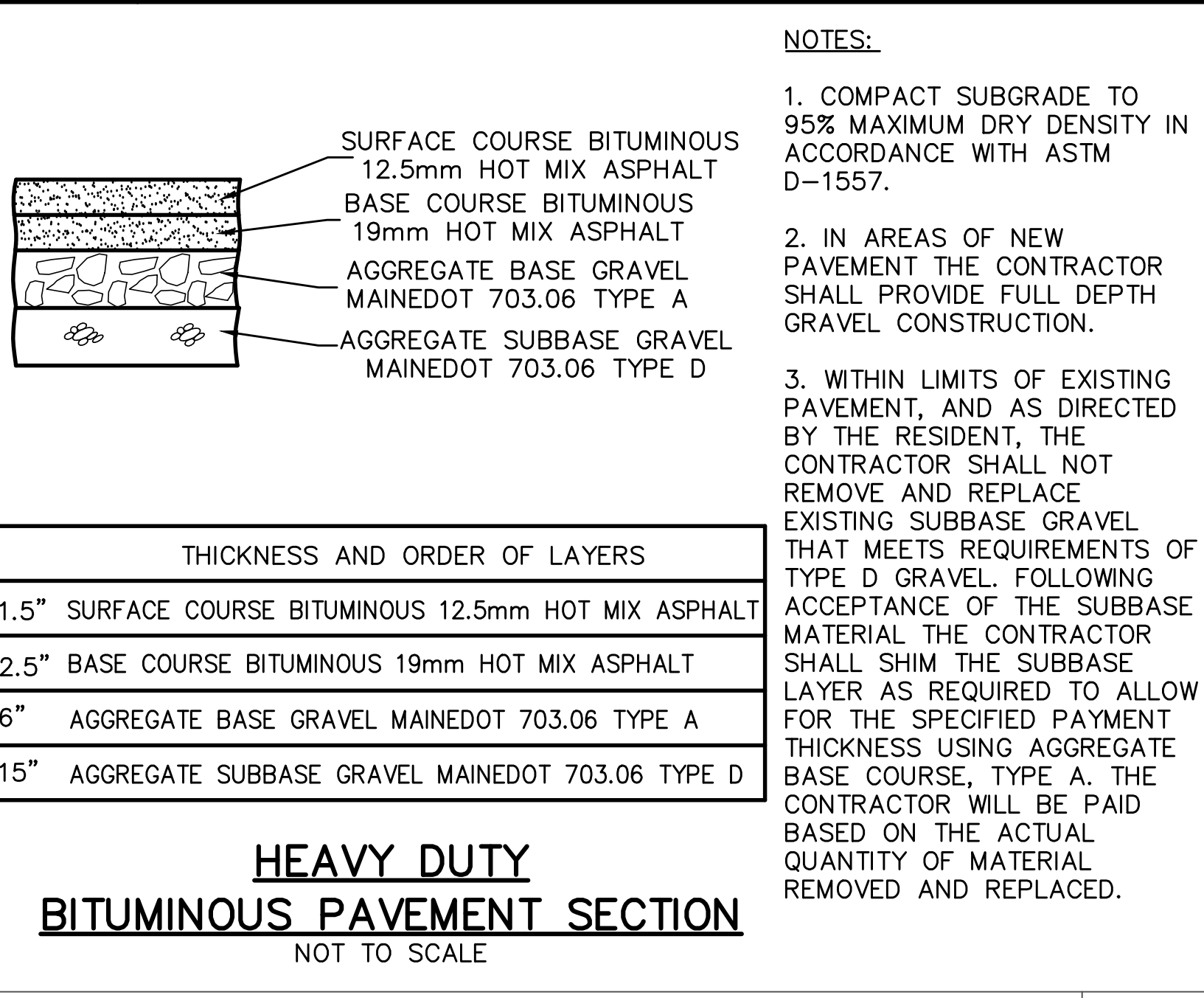


1. ALL TANKS, RISERS, FRAMES, COVERS SHALL BE DESIGNED FOR H2O LOADING AND PROVIDED TO GRADE.  
2. CONCRETE: 5000PSI AFTER 28 DAYS  
3. TONGUE AND GROOVE JOINTS ARE SEALED WITH A STRIP OF BUTYL RUBBER  
4. INLET PIPE SLEEVE CAST IN COORDINATE WITH WASH BAY MANUFACTURER FOR EXACT SIZES, LOCATIONS OF ALL PLUMBING WITHIN TANKS.  
5. SUBMIT SHOP DRAWINGS OF TANKS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING.  
6. PROVIDE POWER TO FLOAT ALARM (INCIDENTAL).  
7. THE PROPOSED 4'X4'X10" REINFORCED CONCRETE PAD SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 502, STRUCTURAL CONCRETE.

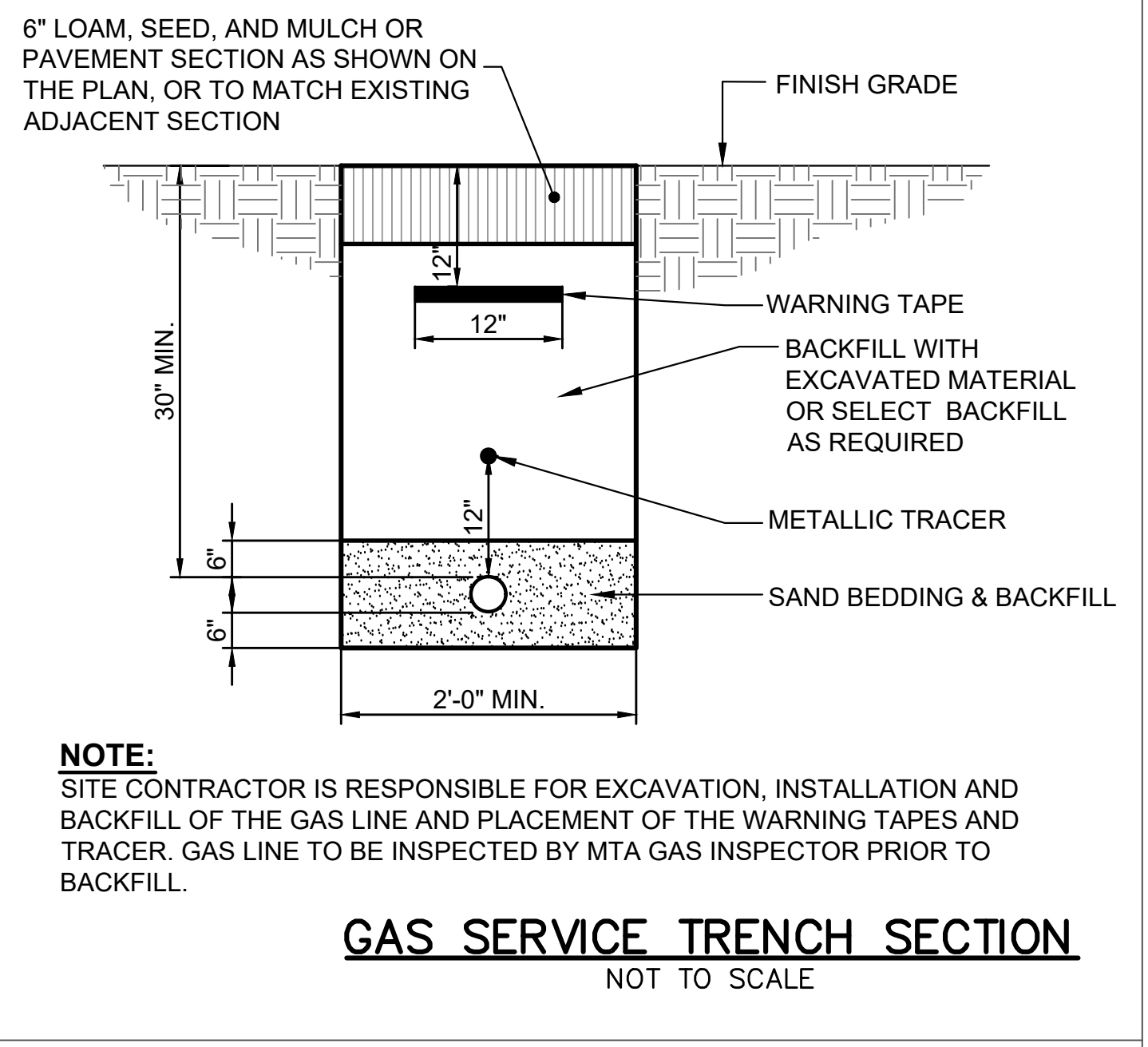


NOTES:  
1.) USE AMERICAN WELDING & TANK ASME TANK OR APPROVED EQUAL. TANK INSTALLATION TO BE COORDINATED WITH THE LOCAL GAS UTILITY COMPANY, AND SHALL COMPLY WITH ITS STANDARDS.

NOTES:  
1. THE WOOD WASTE COMPOST/BARK MIX SHALL CONFORM TO THE FOLLOWING STANDARDS:  
A. MOISTURE CONTENT - 30-60%.  
B. pH - 5.0 - 8.0.  
C. SCREEN SIZE - 100% LESS THAN 3", MAX. 70% LESS THAN 1".  
D. NO LESS THAN 40% ORGANIC MATERIAL (DRY WEIGHT) BY LOSS OF IGNITION.  
E. NO STONES LARGER THAN 2" IN DIAMETER.  
F. SILTS, CLAYS OR SUGAR SANDS ARE NOT ACCEPTABLE IN THE MIX.  
2. THE COMPOST BERM SHALL BE PLACED, UNCOMPACTED, ALONG A RELATIVELY LEVEL CONTOUR.  
3. THE WOOD WASTE COMPOST/BARK FILTER BERM MAY BE USED IN LIEU OF SILTATION FENCE, AT THE TOE OF SHALLOW SLOPES, ON FROZEN GROUND, LEDGE OUT CROPS, VERY ROOTED FORESTED AREA OR AT THE EDGE OF GRAVEL PARKING AREAS.  
4. BERMS SHALL REMAIN IN PLACE UNTIL UPSTREAM AREA IS COMPLETED OR 70% CATCH OF VEGETATION IS ATTAINED. BERMS SHALL BE REMOVED BY SPREADING SUCH THAT NATIVE EARTH CAN BE SEEN BELOW.



NOTES:  
1. COMPACT SUBGRADE TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.  
2. IN AREAS OF NEW PAVEMENT THE CONTRACTOR SHALL PROVIDE FULL DEPTH GRAVEL CONSTRUCTION.  
3. WITHIN LIMITS OF EXISTING PAVEMENT, AND AS DIRECTED BY THE RESIDENT, THE CONTRACTOR SHALL NOT REMOVE AND REPLACE EXISTING SUBBASE GRAVEL THAT MEETS REQUIREMENTS OF TYPE D GRAVEL. FOLLOWING ACCEPTANCE OF THE SUBBASE MATERIAL THE CONTRACTOR SHALL SHIM THE SUBBASE LAYER AS REQUIRED TO ALLOW FOR THE SPECIFIED PAYMENT THICKNESS USING AGGREGATE BASE COURSE, TYPE A. THE CONTRACTOR WILL BE PAID BASED ON THE ACTUAL QUANTITY OF MATERIAL REMOVED AND REPLACED.



NOTE:  
SITE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, INSTALLATION AND BACKFILL OF THE GAS LINE AND PLACEMENT OF THE WARNING TAPES AND TRACER. GAS LINE TO BE INSPECTED BY MTA GAS INSPECTOR PRIOR TO BACKFILL.

Scale: N/A

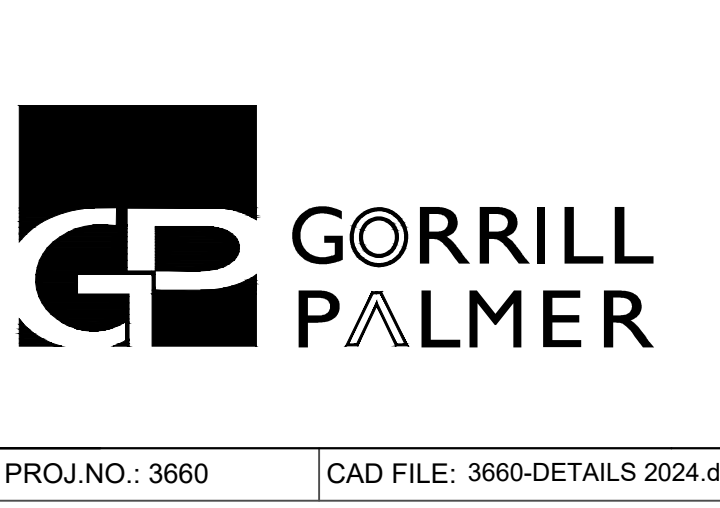
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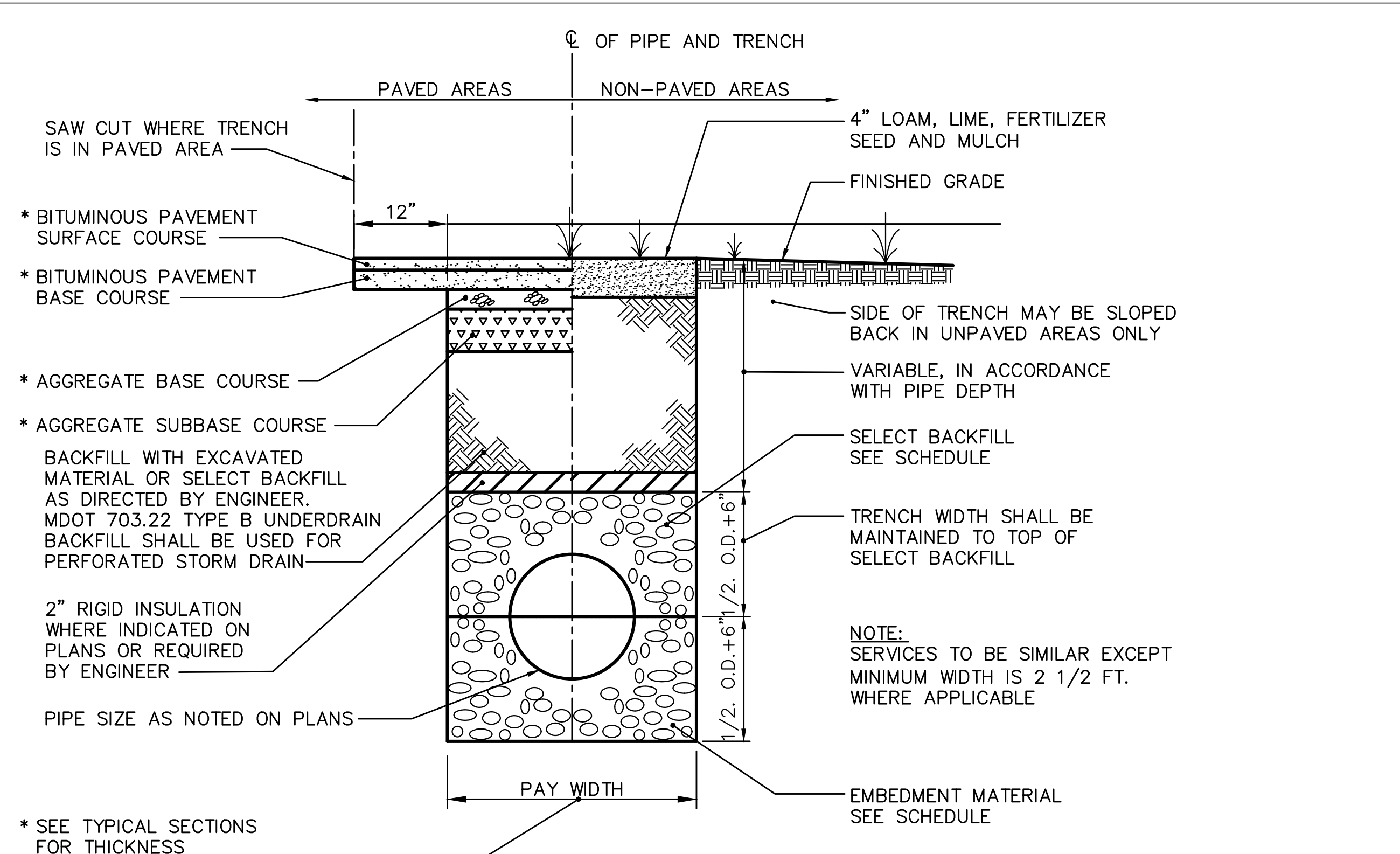
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CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
DETAILS - 1

SHEET NUMBER: C-401  
CONTRACT: 2024.09  
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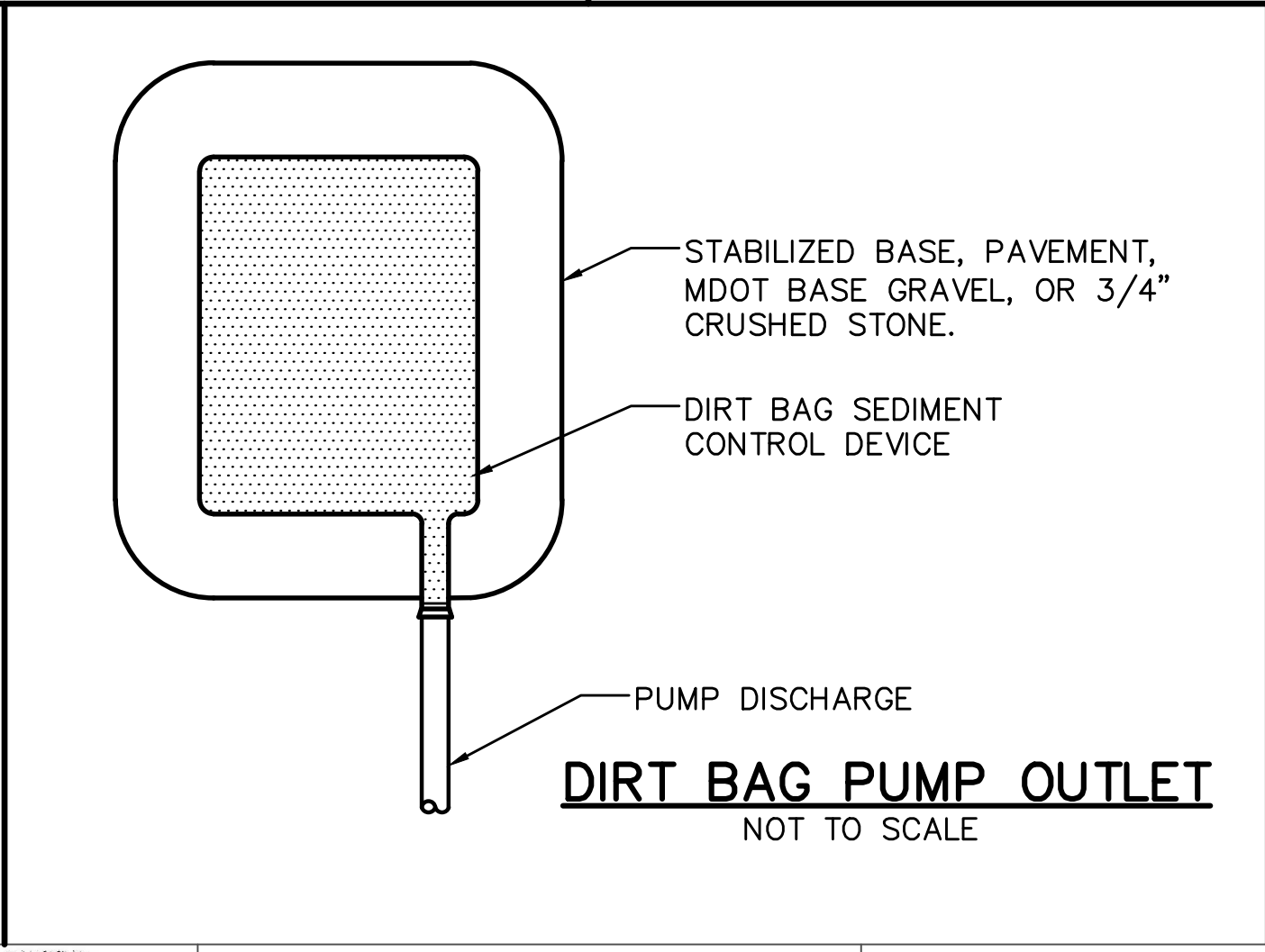
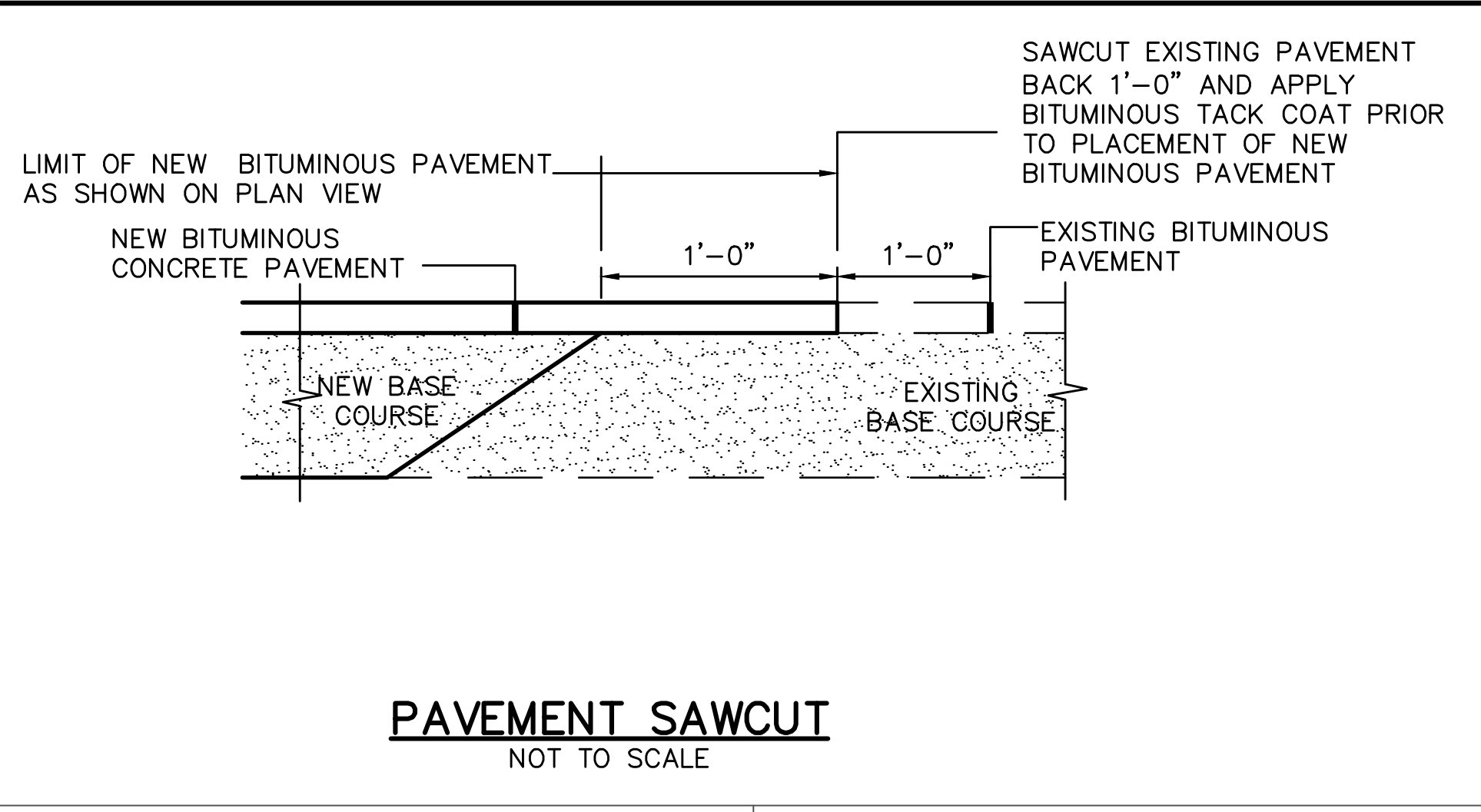
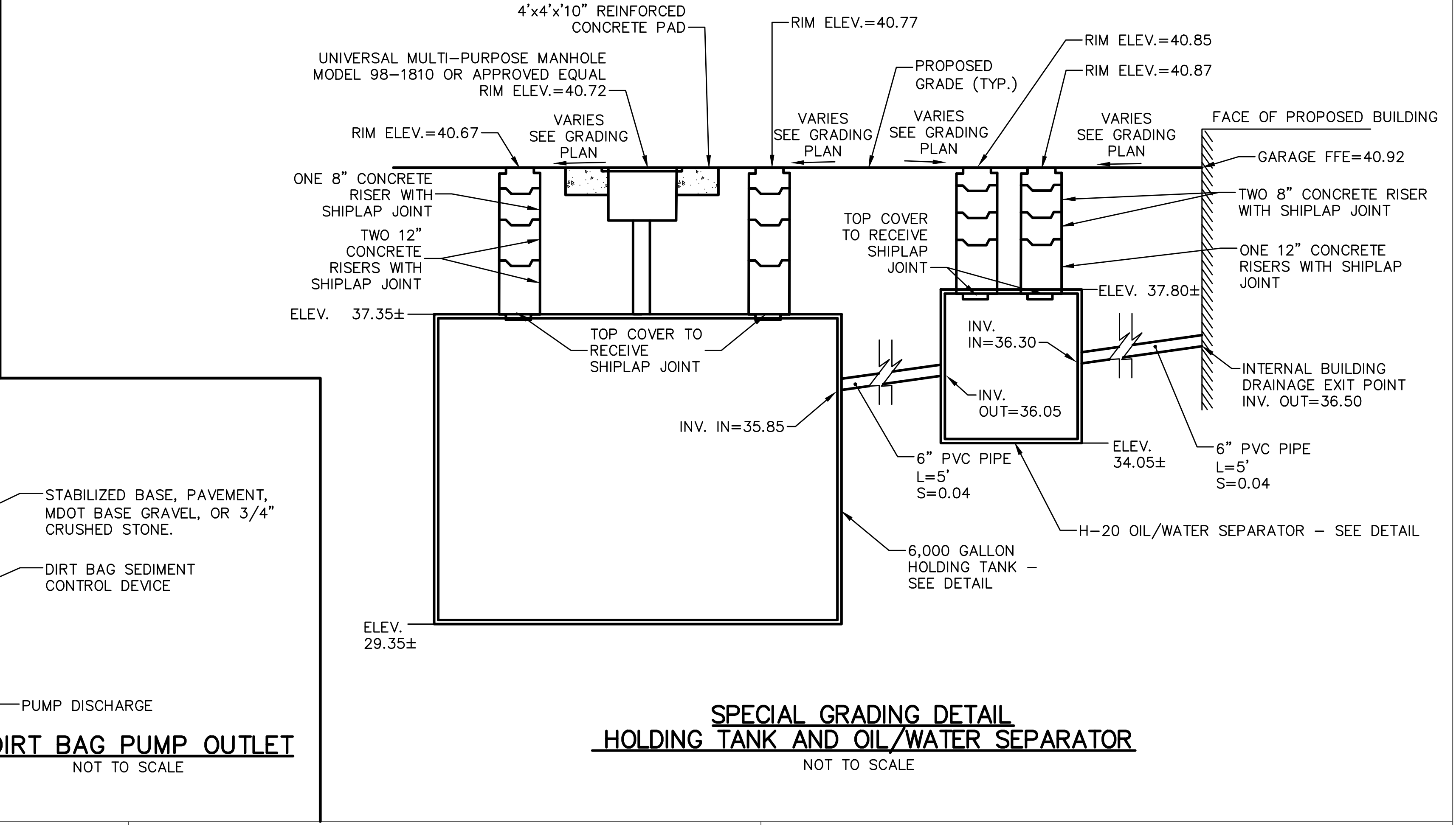
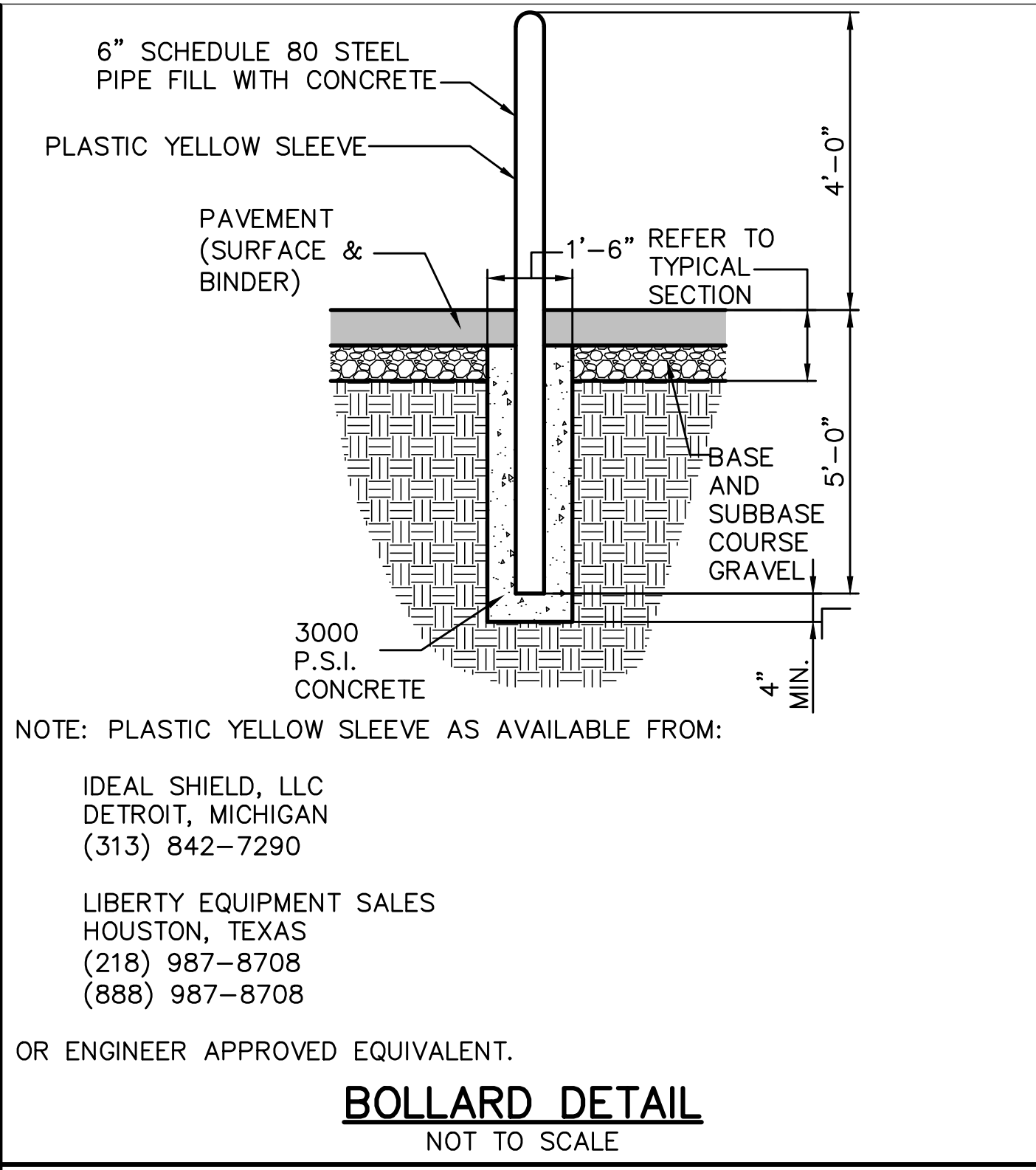
4/3 I.D. PIPE + 1'-6" (MIN. 3'-0")

SCHEDULE OF TRENCH BACKFILL		
TYPE OF PIPE	EMBEDMENT MATERIAL	SELECT BACKFILL
PVC-SDR 35 HDPE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL
PERFORATED PVC-SDR35 HDPE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE	MDOT 703.22 TYPE C 3/4" CRUSHED STONE

**TRENCH SECTION**  
NOT TO SCALE

NOTE: SERVICES TO BE SIMILAR EXCEPT MINIMUM WIDTH IS 2 1/2 FT. WHERE APPLICABLE

NOTE: 1. BRACING AND SHEETING OR OTHER TRENCH PROTECTION TO BE PROVIDED TO MEET APPLICABLE STATE AND O.S.H.A. SAFETY STANDARDS. ALL SUCH TRENCH PROTECTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.  
2. INSTALL WARNING TAPE 12" DIRECTLY ABOVE UTILITIES.



Scale: N/A

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**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
DETAILS - 2

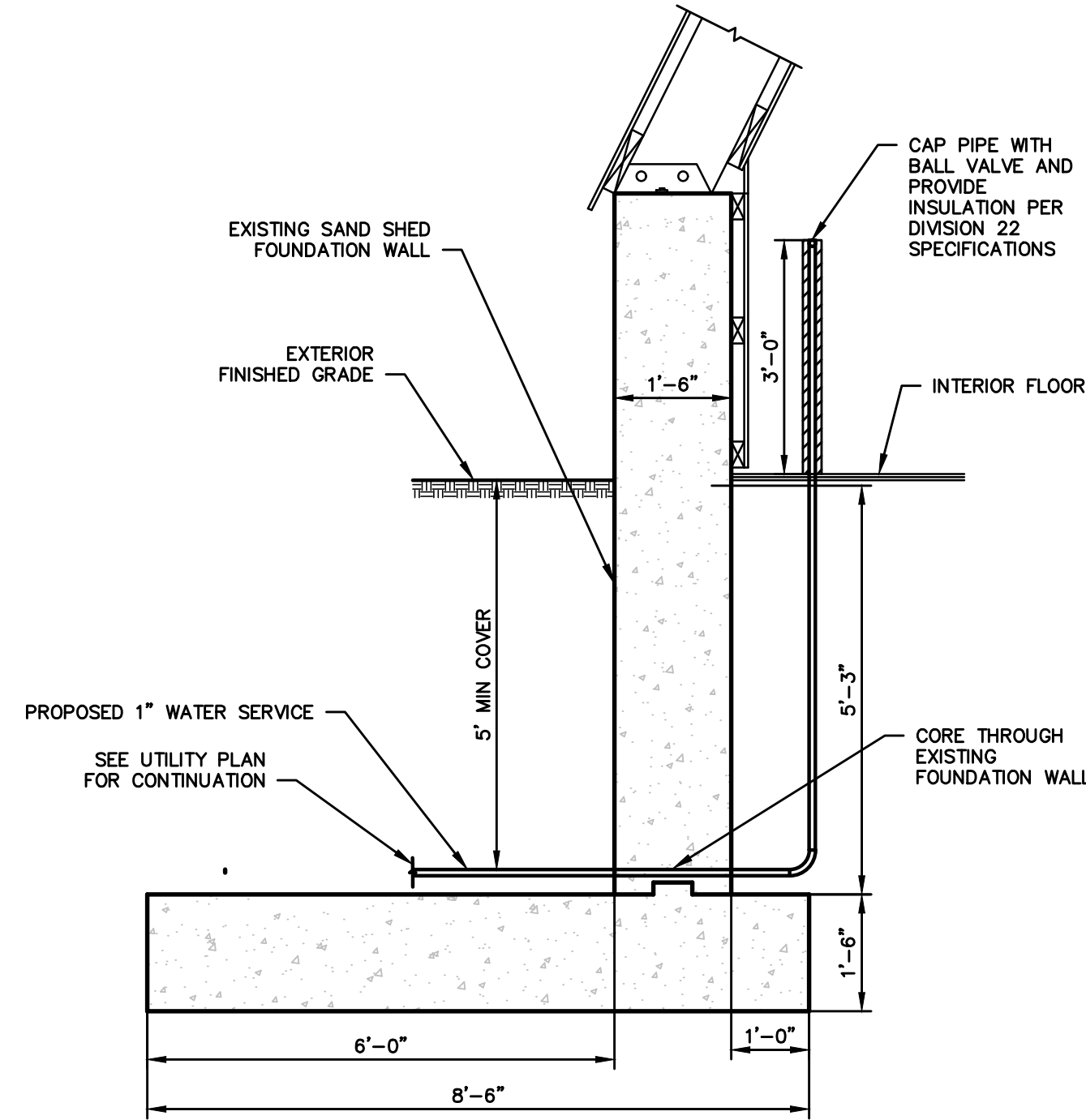
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CONTRACT: 2024.09

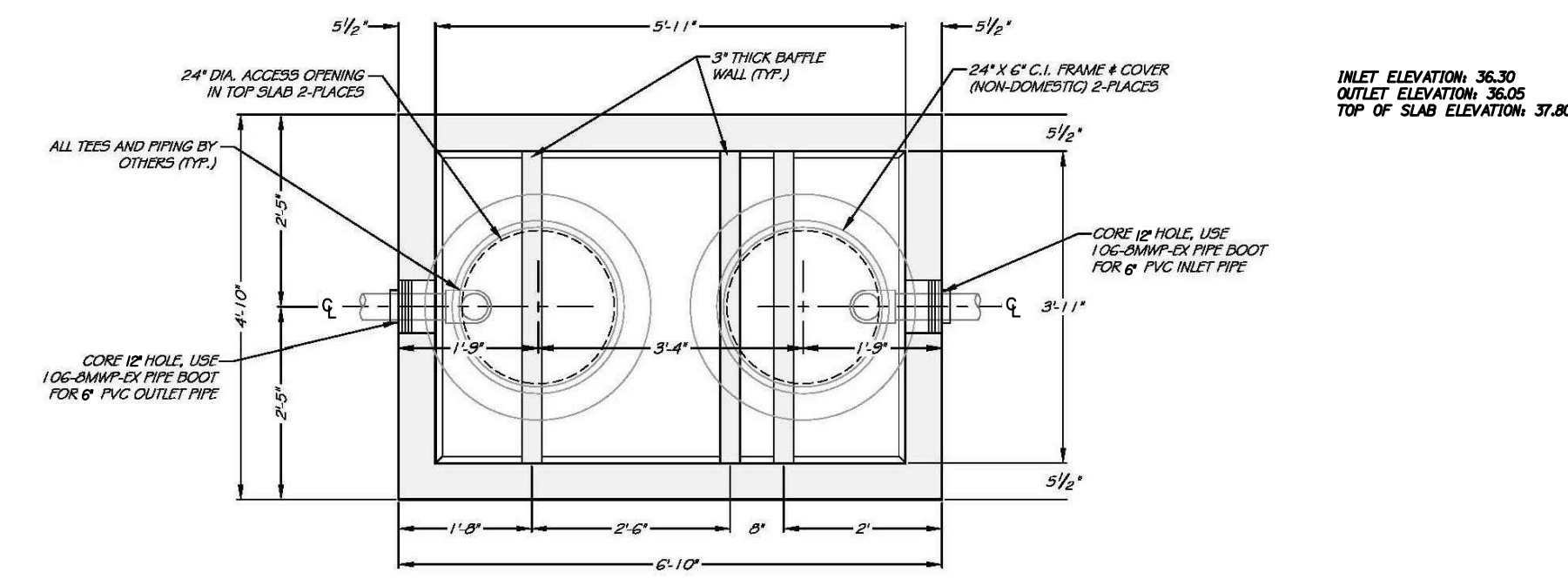
8 OF 32



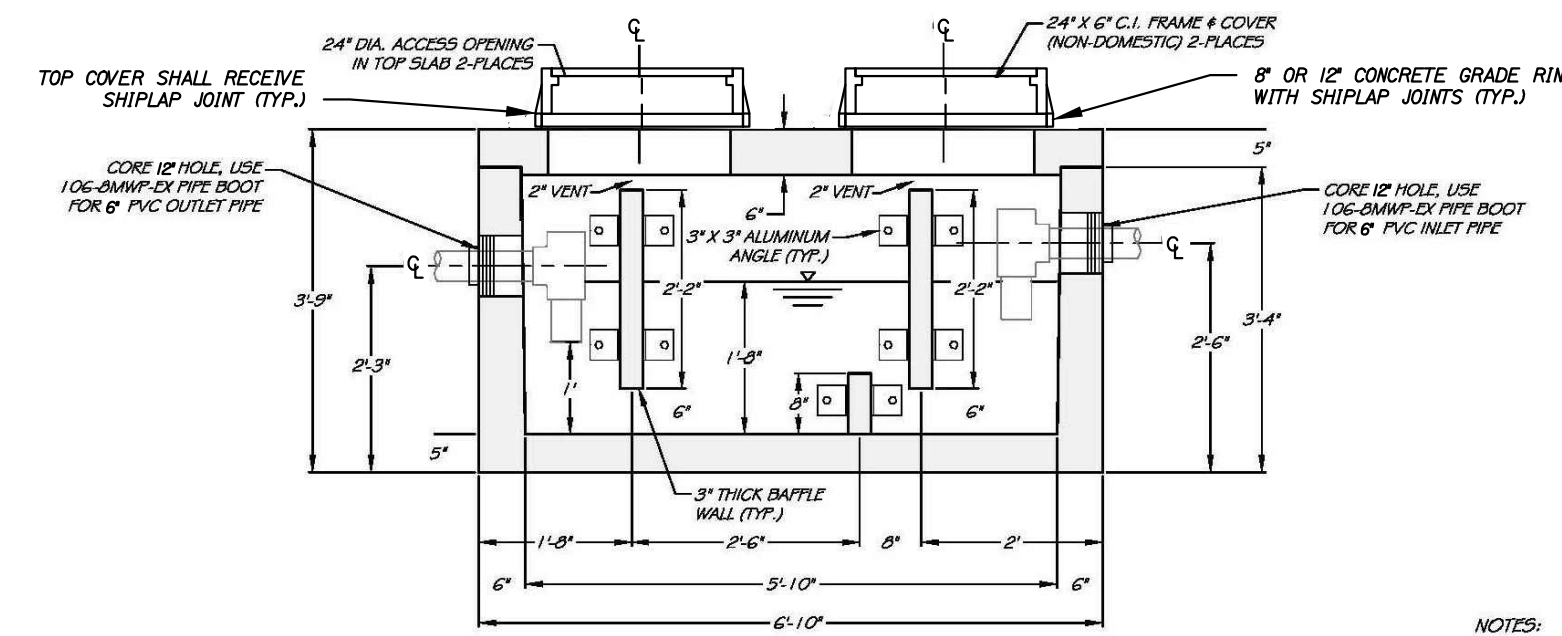
NOTE:  
1. ALL FOUNDATION DIMENSIONS ARE APPROXIMATE AND BASED OFF ORIGINAL SAND SHED STRUCTURAL DESIGN PLANS. ACTUAL DIMENSIONS MAY VARY.



**WATER SERVICE CONNECTION DETAIL**  
NOT TO SCALE



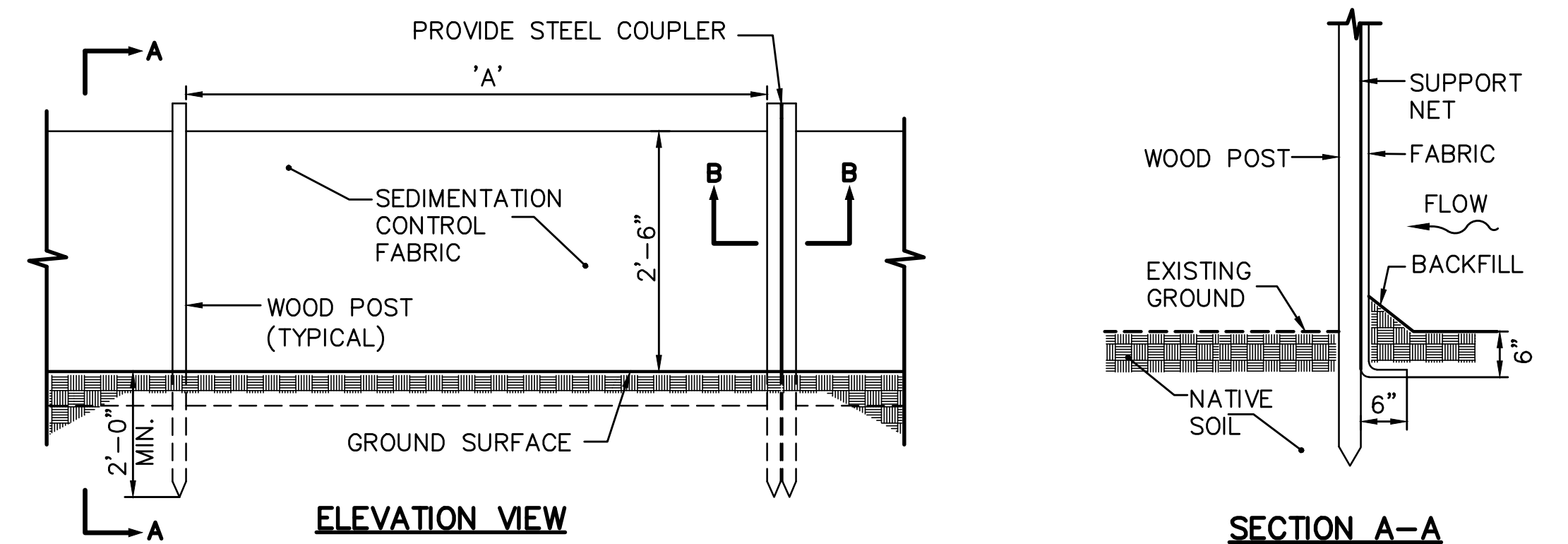
**PLAN VIEW**



**SECTION VIEW**

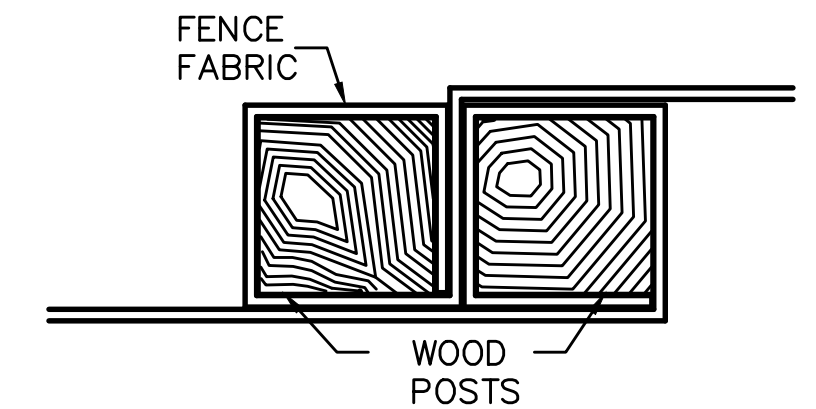
**H-20 OIL/WATER SEPARATOR DETAIL**  
NOT TO SCALE

NOTES:  
1) CONCRETE: 5,000 PSI @ 28 DAYS.  
2) CEMENT: TYPE III PER ASTM C150-91.  
3) REINFORCING: GRADE 60 PER ASTM A615.  
4) DESIGN LOADING: H-20 PER ASTM C-476.  
5) JOINTS TO BE SEALED WATER TIGHT WITH 'KON-SEAL'.



**ELEVATION VIEW**

SILT FENCE	
SILT FENCE REINFORCEMENT	MAXIMUM SPACING "A"
NONE	6"
WIRE REINFORCEMENT 14 GAUGE, 6" MESH	10'



**SECTION A-A**

**SECTION B-B**

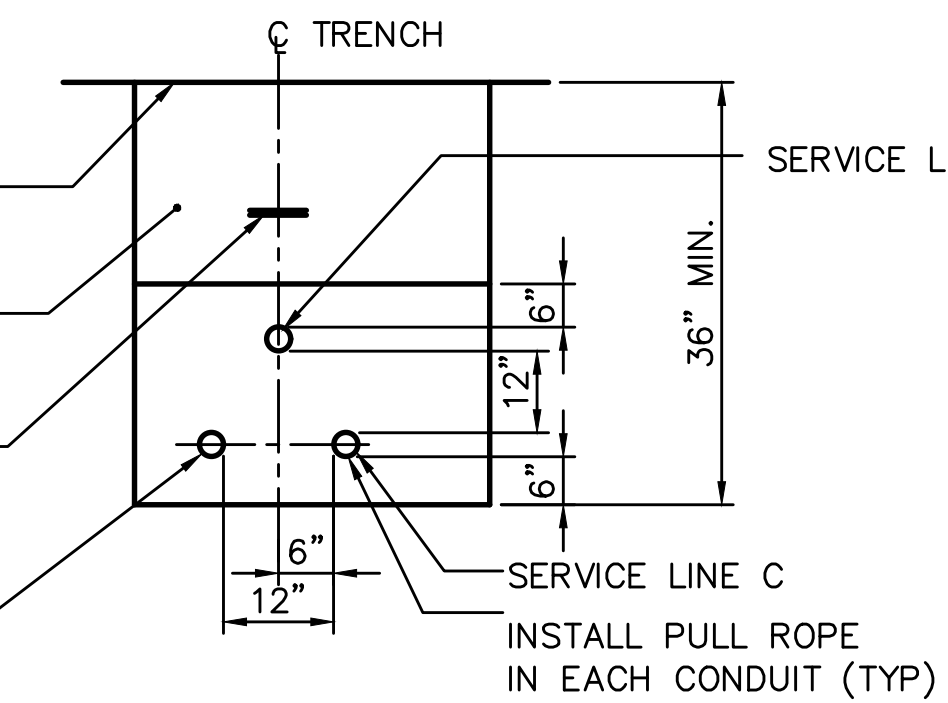
**SILTATION FENCE DETAIL**  
NOT TO SCALE

MATCH PROPOSED PAVEMENT SECTION OR LOAM & SEED AS REQUIRED

SUITABLE BACKFILL FREE OF FROZEN LUMPS, ROCKS OR STONES LARGER THAN 5", DEBRIS OR RUBBISH

PLASTIC MARKER TAPE IN CENTER OF TRENCH APPROX. 12" BELOW FINAL GRADE

SERVICE LINE A

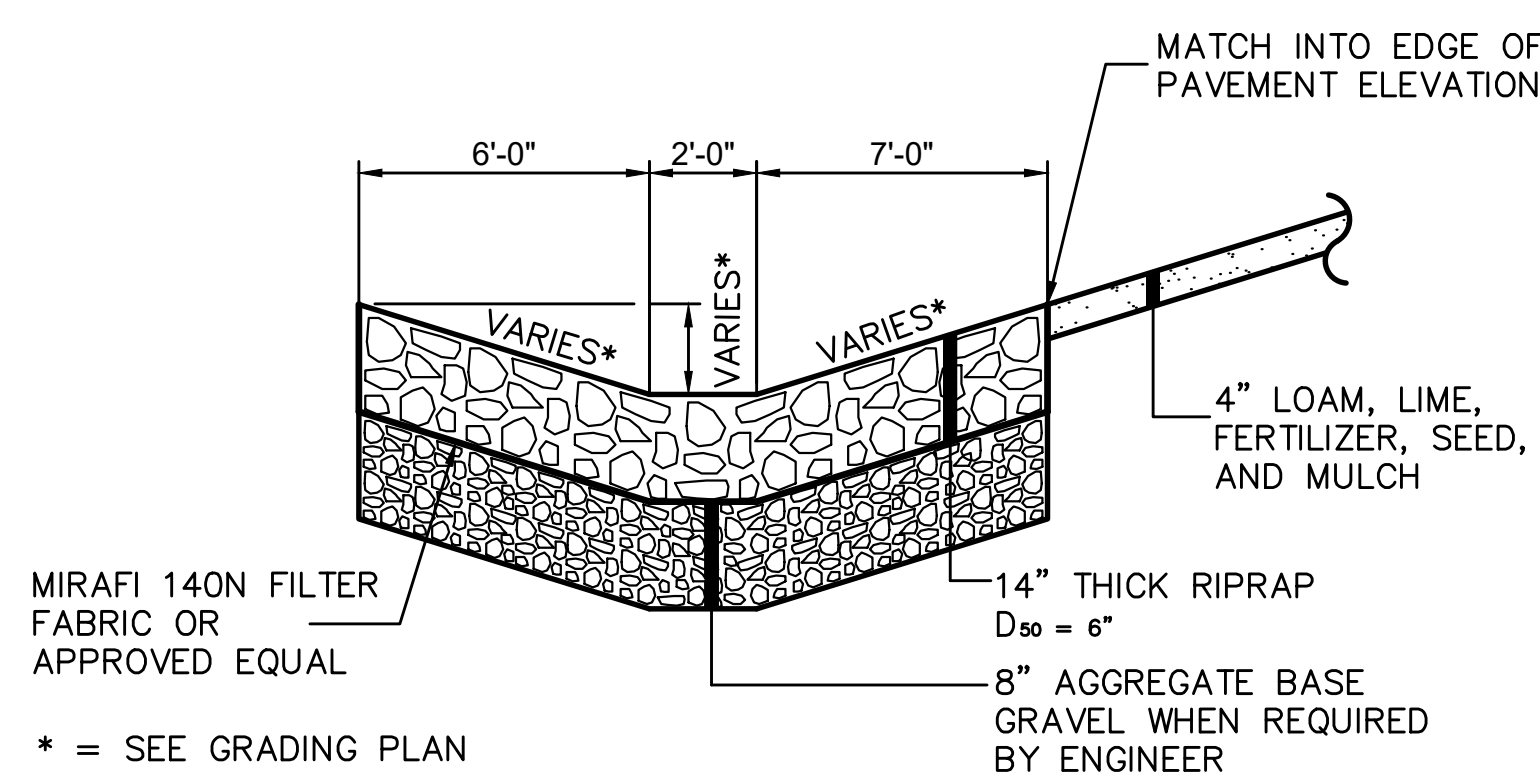


CONDUIT TYPE SCHEDULE				
SERVICE	CONDUIT SIZE	GRASS & PAVED AREAS	UTILITY	REMARKS
A	2-4"	SCHEDULE 80 PVC ELECTRICAL GRADE	PRIMARY POWER	SEE NOTE
B	2-4"	SCHEDULE 80	TELEPHONE/DATA	SEE NOTE
C	1-1 1/2"	SCHEDULE 80	SPARE	SEE NOTE

NOTE:  
ONE CONDUIT CAPPED FOR SPARE, PROVIDE GALVANIZED STEEL LONG SWEEP AT RISER POLE AND EXTEND GALVANIZED CONDUIT TO 10 FT ABOVE GRADE AT POLE WITH STAND-OFF BRACKETS.

**UTILITY TRENCH - PRIMARY AND SECONDARY POWER, TELEPHONE, AND CABLE**

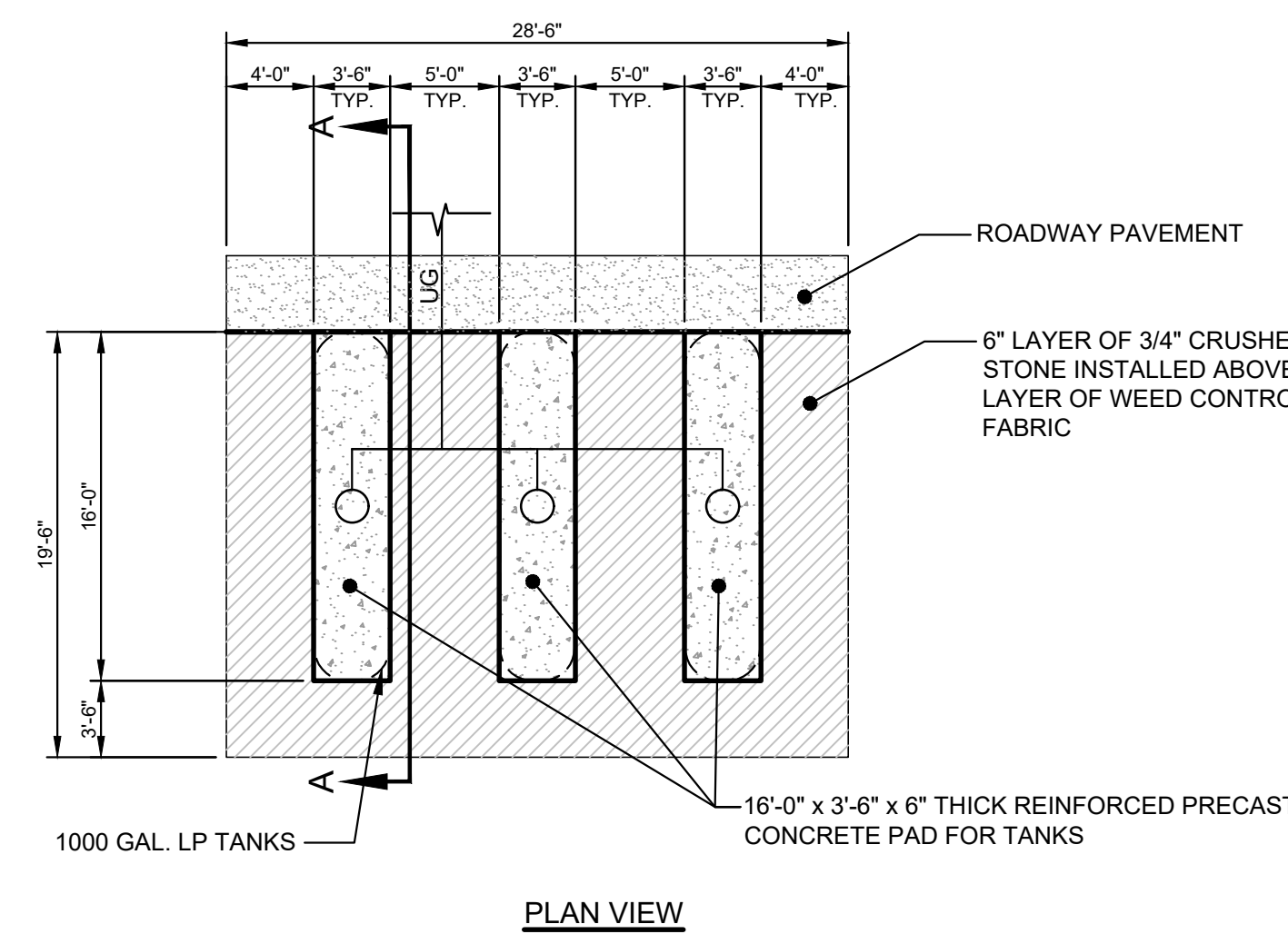
NOT TO SCALE



\* = SEE GRADING PLAN

**RIPRAP DOWNSPOUT**  
NOT TO SCALE

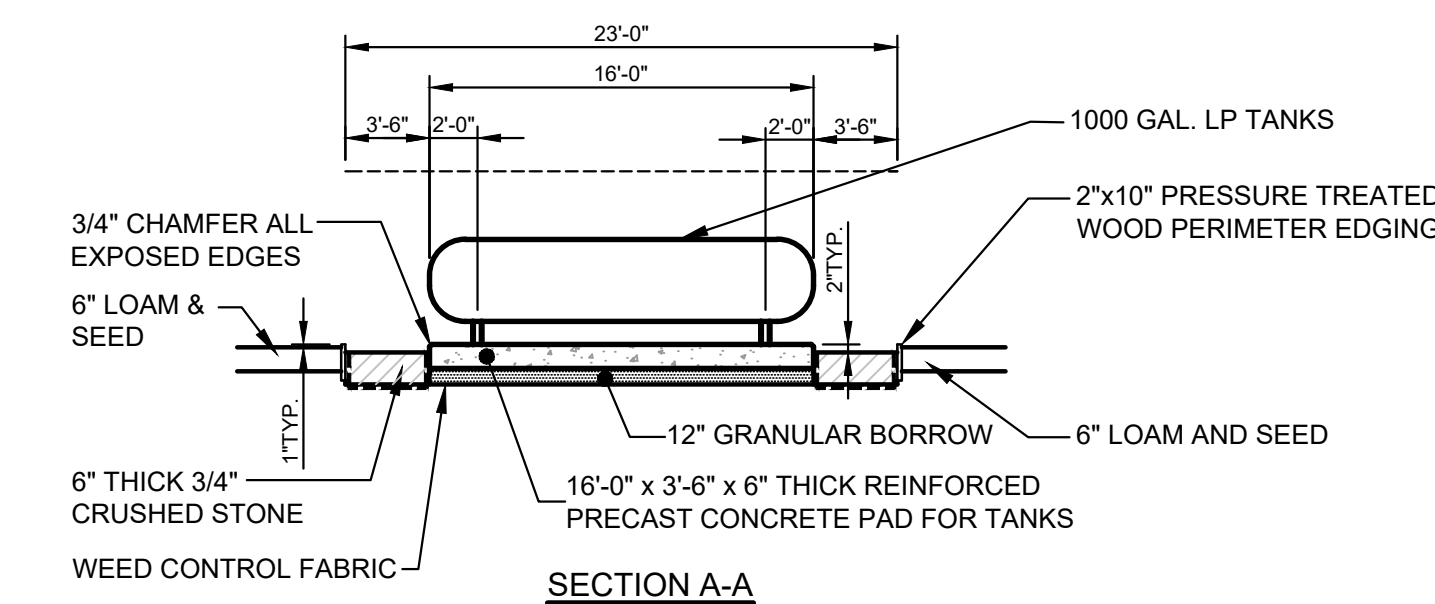
NOTE:  
ALL MATERIALS SHALL CONFORM TO THE CURRENT EDITION OF THE MDOT STANDARD SPECIFICATIONS.



**PLAN VIEW**

**ABOVE GROUND PROPANE GAS TANK FARM**

NOT TO SCALE



**SECTION A-A**

Scale:	N/A			
No.	Revision	By	Date	

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STATE OF MAINE  
ALTON M. PALMER III  
No. 6234  
LICENSED PROFESSIONAL ENGINEER

GORRILL PALMER

MAINE TURNPIKE

**THE GOLD STAR MEMORIAL HIGHWAY**

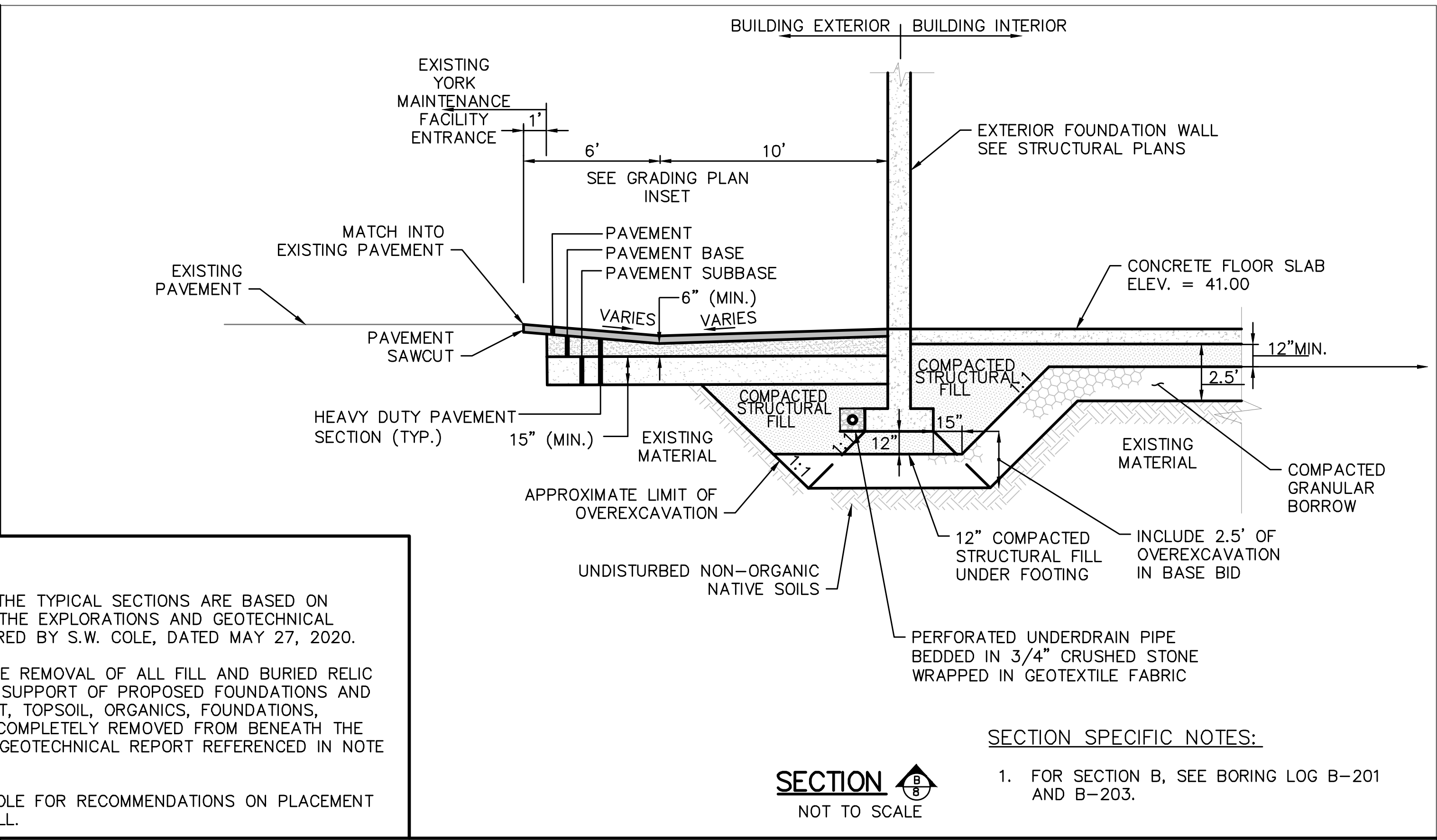
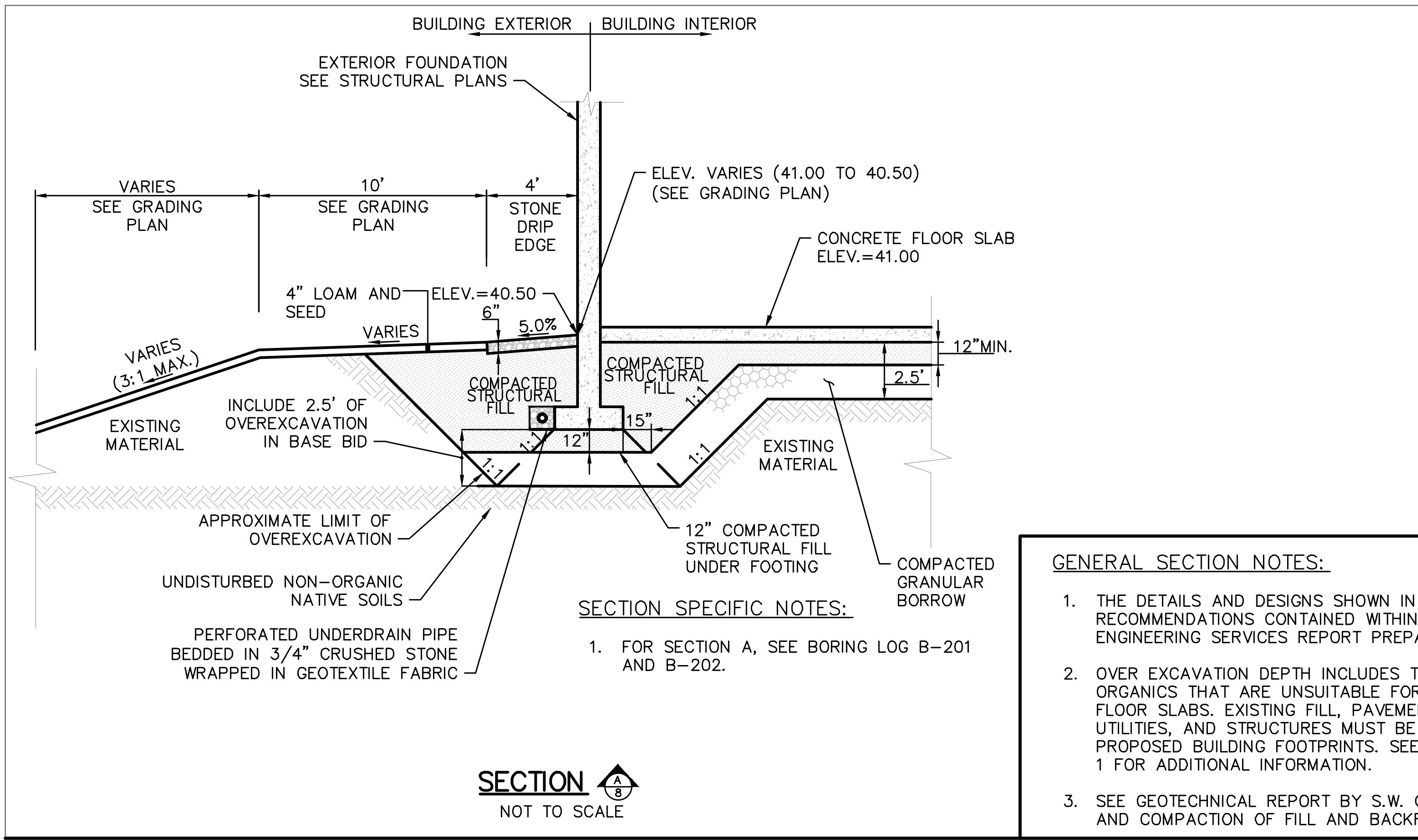
MTA PROJECT MANAGER: **Brian A. Taddeo, P.E.**

**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**DETAILS - 3**

SHEET NUMBER: C-403

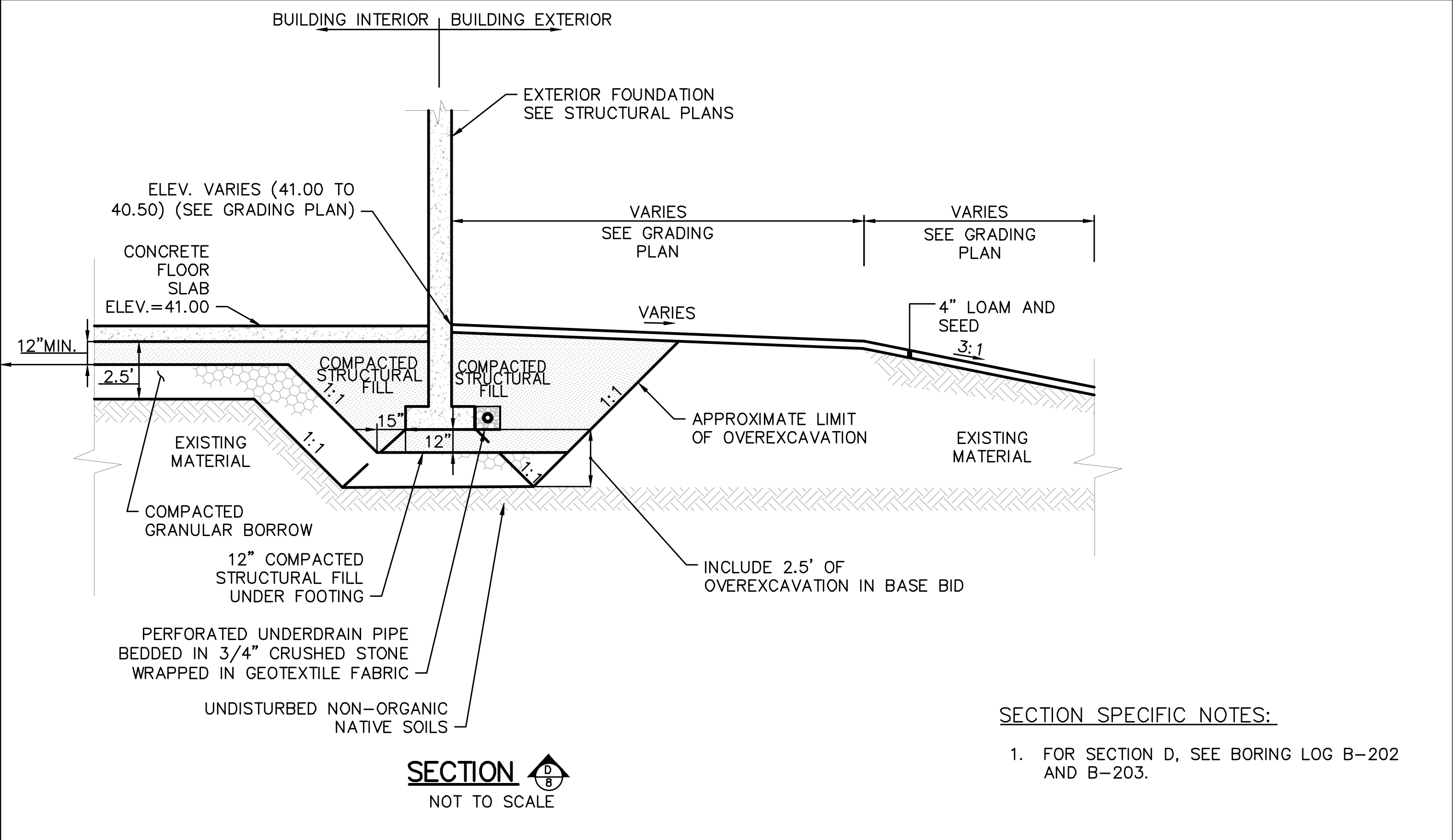
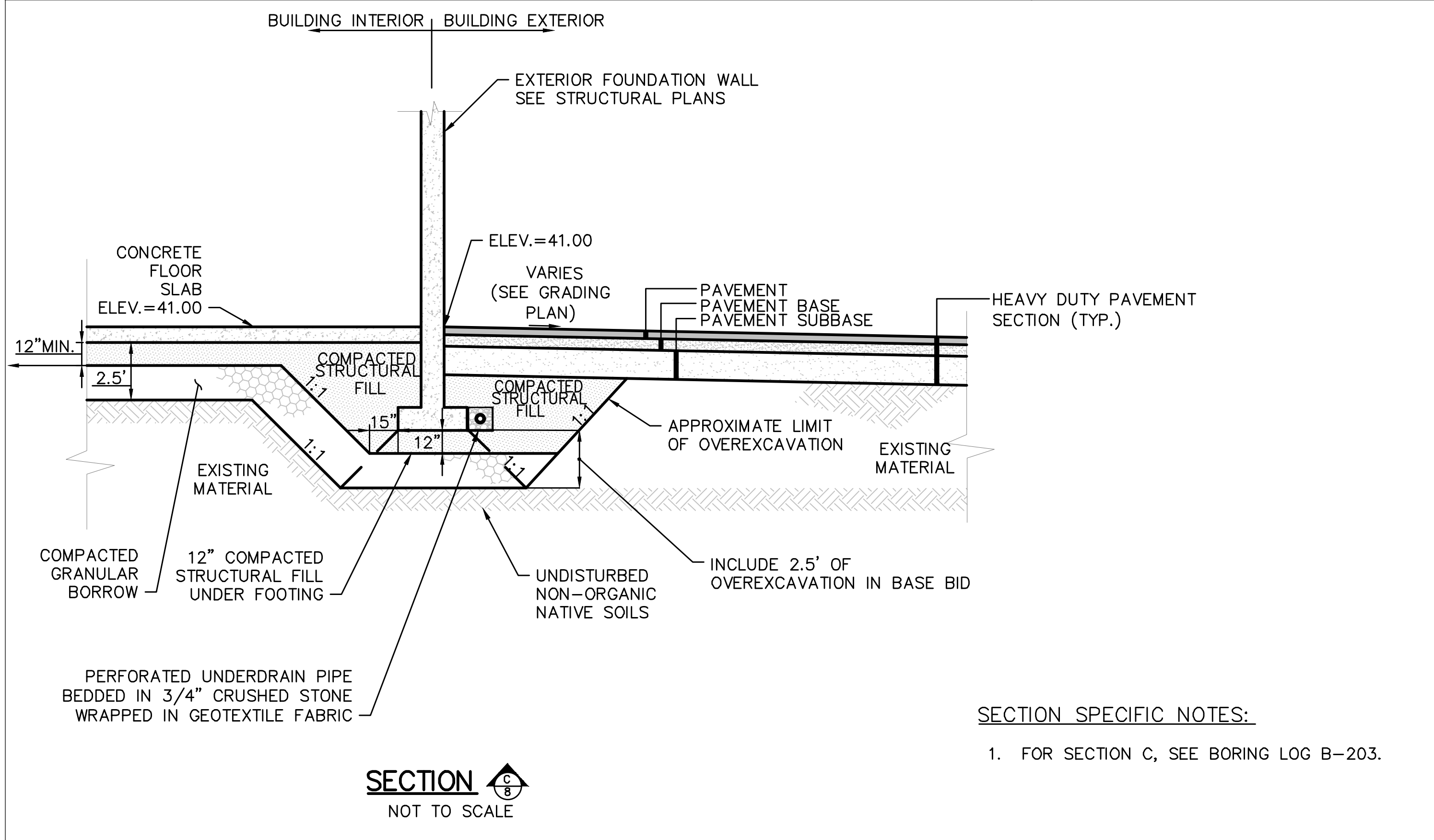
CONTRACT: 2024.09

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**GENERAL SECTION NOTES:**

- THE DETAILS AND DESIGNS SHOWN IN THE TYPICAL SECTIONS ARE BASED ON RECOMMENDATIONS CONTAINED WITHIN THE EXPLORATIONS AND GEOTECHNICAL ENGINEERING SERVICES REPORT PREPARED BY S.W. COLE, DATED MAY 27, 2020.
- OVER EXCAVATION DEPTH INCLUDES THE REMOVAL OF ALL FILL AND BURIED RELIC ORGANICS THAT ARE UNSUITABLE FOR SUPPORT OF PROPOSED FOUNDATIONS AND FLOOR SLABS. EXISTING FILL, PAVEMENT, TOPSOIL, ORGANICS, FOUNDATIONS, UTILITIES, AND STRUCTURES MUST BE COMPLETELY REMOVED FROM BENEATH THE PROPOSED BUILDING FOOTPRINTS. SEE GEOTECHNICAL REPORT REFERENCED IN NOTE 1 FOR ADDITIONAL INFORMATION.
- SEE GEOTECHNICAL REPORT BY S.W. COLE FOR RECOMMENDATIONS ON PLACEMENT AND COMPACTION OF FILL AND BACKFILL.



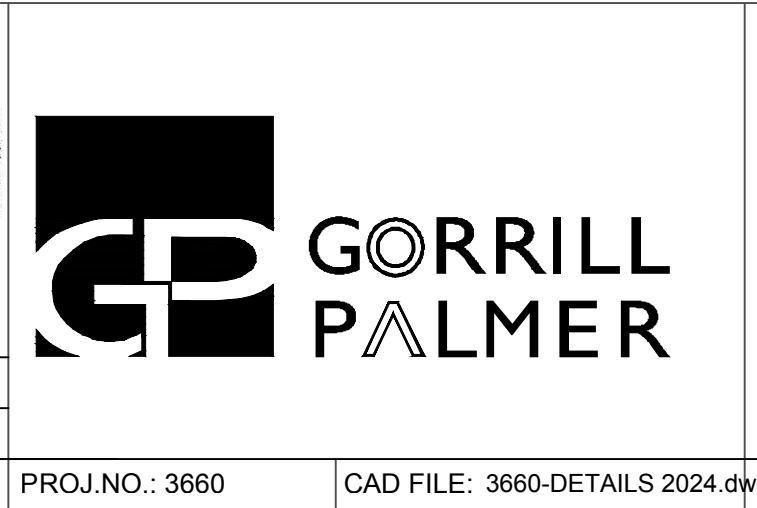
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CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
TYPICAL SECTIONS

SHEET NUMBER: C-404

CONTRACT: 2024.09

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PROJ.NO.: 3660 CAD FILE: 3660-DETAILS 2024.dwg

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

# CODE ANALYSIS

### NFPA 101 Life Safety Code - 2021 Edition

Building Classification: Storage - 6,600 sf  
 Hazard Classification: Ordinary Hazard  
 Construction Type: Type II (000)  
 Occupant Loads: Maximum Probable = 6 occupants

#### Building Uses Storage

Non-Sprinkled Building  
 Max. Allowable Travel Distance: 200'  
 Max. Allowable Common Path: 50'  
 Max. Dead End Corridor Length: 50'  
 Minimum Number of Required Exits: 2  
 Minimum Separation of exits: 0.5 diagonal  
 Minimum Egress Door Width: 36"

Fire Alarm System: Not Required  
 Fire Sprinkler System: Not Required  
 Exit Lighting: Required  
 Emergency Lighting: Required  
 Portable Fire Extinguishers: Required

### 2015 International Building Code

Use Group Classification: Storage - Use Group S2  
 Construction: Type II - Non-Combustible, Unprotected  
 Occupant Loads: 6,600 sf S2 @ 500 sf/occ = 14 occupants

#### Building Limitations Non-Sprinkled

Construction Type: IIB Unprotected  
 Maximum Height: 3 stories / 55'  
 Maximum Area / Floor: 39,000 sf

#### Fire Resistance Ratings

Load Bearing Exterior Walls: None  
 Minimum Number of Exits: 2  
 Maximum Dead-End Corridor Length: 20'  
 Maximum Common Travel Path: 75'  
 Maximum Travel Distance: 300'

Fire Alarm System: Not Required  
 Fire Sprinkler System: Not Required (less than 24,000 sf)  
 Portable Fire Extinguishers: Required  
 Exit Lighting: Required  
 Emergency Lighting: Required

#### Building Live Loads

Storage: 125 psf @ light; 250 psf @ heavy

### MUBEC (Maine Uniform Building Energy Code) MINIMUM INSULATION VALUES

Per 2021 IECC; Table C402.1.3, C402.1.4 and C402.4

ZONE 6	R-VALUE	U-FACTOR	SHGC
Metal Building with R-5 Thermal Blockers			
Roof	R-25 + R-11 LS	0.031	NA
Exterior Wall	R-25	0.040	NA
Mass Wall above Grade	R-13.3 ci	0.080	NA
Mass Wall below Grade	R-10 ci	C-0.092	NA
Unheated Slab (24" band)	R-20.0	F-0.51	NA
Doors - Swinging		0.37	NA
Doors - Overhead (< 14% glass)	R-4.75	0.21	NA
Windows - Fixed		0.34	0.38

End of Analysis

## ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	G	GRANITE	PB	PANIC BAR
ALUM or AL	ALUMINUM	GA	GAUGE	PL	PLATE
AWP	ACOUSTICAL WALL PANEL	GALV	GALVANIZED	PL FLY WD	PLYWOOD
BIT	BITUMINOUS	GB	GRAB BARS	PNL	PANEL
BM	BENCH MARK	GC	GENERAL CONTRACTOR	P-T	PASSAGE LATCH SET
BOT	BOTTOM	GC	GYPSUM WALL BOARD	PT # D	PRESSURE TREATED PAPER TOWEL #
BRG	BEARING	HC	HANDICAP	PTN	WASTE DISPENSER PARTITION
BRK	BRICK	HD WD	HARDWOOD	RD	ROOF DRAIN
C	CARPET	HDR	HEADER	RE	REFER
CAB	CABINET	HDWE	HARDWARE	REF	REFRIGERATOR
CB	CHALK BOARD	HM	HOLLOW METAL	REINF	REINFORCED
CC	CENTER TO CENTER	HORIZ	HORIZONTAL	REQ'D	REQUIRED
CH	CONCRETE FLOOR WITH HARDENER	HT	HEIGHT	RM	ROOM
CJ	CONTROL JOINT	ID	INSIDE DIAMETER	RO	ROUGH OPENING
CL	CENTER LINE	IF	INSIDE FACE	S	SOUTH
CLG	CEILING	IN	INCHES	SAT	SUSPENDED ACOUSTICAL TILE CEILING
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATION	SC	SHOWER CURTAIN
CONC	CONCRETE	INT	INTERIOR	SD	SOAP DISPENSER
CONT	CONTINUOUS	JNT or JT JOINT		SCHED	SCHEDULE
CONST	CONSTRUCTION	KEC	KITCHEN EQUIPMENT	SECT	SECTION
CONTR	CONTRACTOR	KP	KICK PLATE	SGB	SUSPENDED GYPSUM BOARD CEILING
CT	CERAMIC TILE	L	LAVATORY	SHT	SHEET
DBL	DOUBLE	LAB	LABEL (FIRE)	SIM	SIMILAR
DC	DOOR CLOSER	LNTL	LINTEL	SND	SANITARY NAPKIN DISPOSAL SPECIFICATIONS
DIA	DIAMETER	LOC	LOCATION	SQ	SQUARE
DIM	DIMENSION	LS	LOCKSET	SSS	SYNTHETIC SPORTS SURFACE
DNA	DOES NOT APPLY	M	MARBLE	STD	STANDARD
DR	DOOR	MAG	MASONRY	STL	STEEL
DTL	DETAIL	MAX	MAXIMUM	STRUCT	STRUCTURAL
DWG	DRAWING	MB	MARKER BOARD	STV	STRAIGHT VINYL BASE SHEET VINYL
E	EAST	MECH	MECHANICAL	SV	SHEET VINYL
EA	EACH	MFG	MANUFACTURER	T	TEMPERED (GLASS) TACK BOARD
EAF	EACH FACE	MIN	MINIMUM	TB	THERMAL (INSULATED) THICKNESS
EJ	EXPANSION JOINT	MIS	MISCELLANEOUS	TH	THICKNESS
EL	ELEVATION	MO	MASONRY OPENING	THK	TO TOP OF
ELEC	ELECTRICAL	MR	MOP OPENING	TOB	TOP OF BEAM
ELEV	ELEVATOR	MRGB	MOISTURE RESISTANT GYPSUM BOARD	TOM	TOP OF MASONRY
EMHO	ELECTROMAGNETIC HOLD OPEN	MTL	METAL	TOW	TOP OF WALL
EQ	EQUAL	N	NORTH	TF	TOILET PAPER DISPENSER TYPICAL
EW	ELECTRIC WATER COOLER	NA	NOT APPLICABLE	VB	VAPOR BARRIER
EXIST OF (E)	EXISTING	NIC	NOT IN CONTRACT	VCT	VINYL COMPOSITION TILE
EXP	EXPANSION	NO	NUMBER	VERT	VERTICAL
EXT	EXTERIOR	NOM	NOMINAL	WVC	VINYL WALL COVERING
FCS	FLOOR COATING SYSTEM	NTS	NOT TO SCALE	W	WEST
FD	FLOOR DRAIN	OA	OVERALL	W/	WITH
FDN	FOUNDATION	OC	ON CENTER	WC	WATER CLOSET
FE	FIRE EXTINGUISHER	OD	OUTSIDE DIAMETER	WD	WOOD
FFE	FINISH FLOOR ELEVATION	OF	OUTSIDE FACE	WF	WATER FOUNTAIN
FIN	FINISH	OPNG	OPENING	WG	WIRE GLASS
FIN FL or FF	FINISH FLOOR	OPP	OPPOSITE	WP	WOOD PANELING
FIN GR	FINISH GRADE	PTD	PAINTED		
FL	FLOOR				
FR	FIRE RATING				
FRMG	FRAMING				
FT	FEET (FOOT)				
FV	FIELD VERIFY				
FWC	FABRIC WALL COVERING				

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO LOCAL AND STATE LAWS, ORDINANCES AND PREVAILING EDITIONS OF ADOPTED BUILDING CODES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ALL PERMITS FOR WORK.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING THE WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. CONTRACTOR SHALL PROCEED WITH THE WORK ONLY AFTER SUCH DISCREPANCIES HAVE BEEN RESOLVED BY THE ARCHITECT. CONTRACTOR SHALL ALLOW A 48 HOUR TIME FRAME FOR RESOLVING DISCREPANCIES ONCE THE ARCHITECT HAS ACKNOWLEDGED THE CONDITION.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING THE WORK IN ANY GIVEN AREA.
- WORK WITH GIVEN DIMENSIONS AND LARGE SCALE DETAILS. DO NOT SCALE THE DRAWINGS AS THE REPRODUCTIVE PROCESS TENDS TO DISTORT THE ACCURACY OF THE GRAPHIC SCALE INDICATED.
- ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN A NEAT, SAFE, AND CLEAN MANNER. ALL CONSTRUCTION WASTE SHALL BE REMOVED FROM THE BUILDING. SITE BURNING IS NOT ALLOWED. LEAVE WORK AREA IN A CLEAN, SAFE CONDITION AT THE END OF EACH WORK DAY.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF AT AN APPROVED OFF-SITE FACILITY IN COMPLIANCE WITH ALL REGULATIONS.
- ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESERVATIVE TREATED.
- INSTALL SOLID BLOCKING AT WALL FRAMING BEHIND ALL SURFACE MOUNTED ITEMS.
- REFER TO THE ACCESSIBILITY DETAIL SHEET FOR AMERICANS WITH DISABILITIES ACT (ADA) AND MAINE HUMAN RIGHTS ACT (MRHA) CONSTRUCTION CRITERIA.

## MATERIALS

	CONCRETE
	CONCRETE MASONRY UNIT
	BRICK
	GRAVEL
	SOIL
	STUD PARTITION (EXISTING)
	STEEL
	WOOD FRAMING
	WOOD BLOCKING
	PLYWOOD
	GYPSUM BOARD
	SUSPENDED ACOUSTICAL TILE
	BATT INSULATION
	RIGID INSULATION
	FINISH WOOD
	ONE HOUR RATED PARTITION
	TWO HOUR RATED PARTITION
	EXISTING PARTITION (SCREENED)
	NEW PARTITION

## SYMBOLS

	ROOM NUMBER
	DOOR NUMBER
	WINDOW NUMBER
	BUILDING SECTION
	WALL SECTION
	DETAIL SECTION
	CASEWORK ELEVATION
	INTERIOR ELEVATION
	VERTICAL ELEVATION
	PARTITION TYPE
	STRUCTURAL CENTERLINE

### EGRESS SYMBOLS LEGEND

	DIAGONAL DISTANCE
	EGRESS SEPARATION
	EGRESS PATH

## NFPA LEGEND

SYMBOL	DESCRIPTION
	EXIT LIGHT
	ABC FIRE EXTINGUISHER w/ BRACKET
	EMERGENCY LIGHT
	EMERGENCY / EXIT LIGHT
	EXTERIOR EMERGENCY LIGHT

Scale: NO SCALE

Designed by: MICHAEL F. HAYS, RA



**GRANT HAYS ASSOCIATES**

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 P.O. BOX 6179 FALMOUTH MAINE 04103  
 207.871.5900 www.granthays.com



**THE GOLD STAR MEMORIAL HIGHWAY**

**CONTRACT 2024.09  
 YORK VEHICLE STORAGE GARAGE  
 ARCHITECTURAL COVER SHEET**

No.	Revision	By	Date

By	Date	By	Date
Michael F. Hays			
Designed: MFH	03/25/24	Checked: MFH	03/25/24
Drawn: MGK	03/25/24		

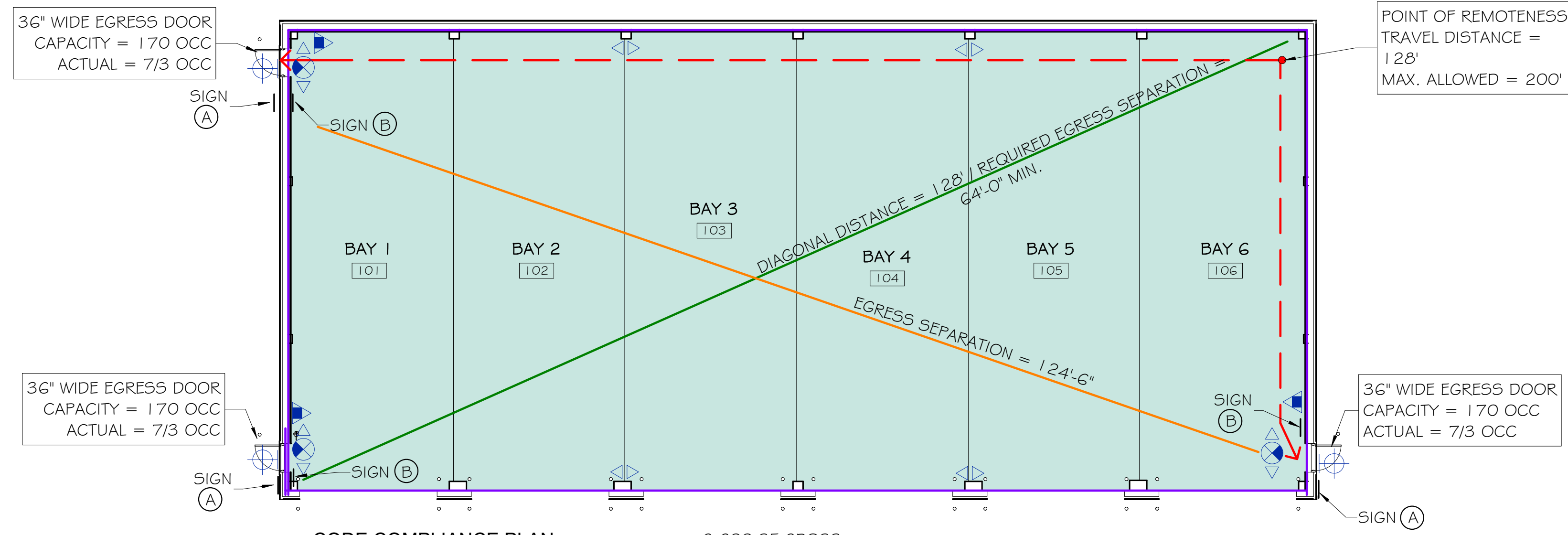
AEI PROJ.NO.: 20020 CAD FILE:

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT: 2024.09

SHEET NUMBER: A-0

11 OF 32



**EGRESS SYMBOLS LEGEND**

	DIAGONAL DISTANCE
	EGRESS SEPARATION
	EGRESS PATH

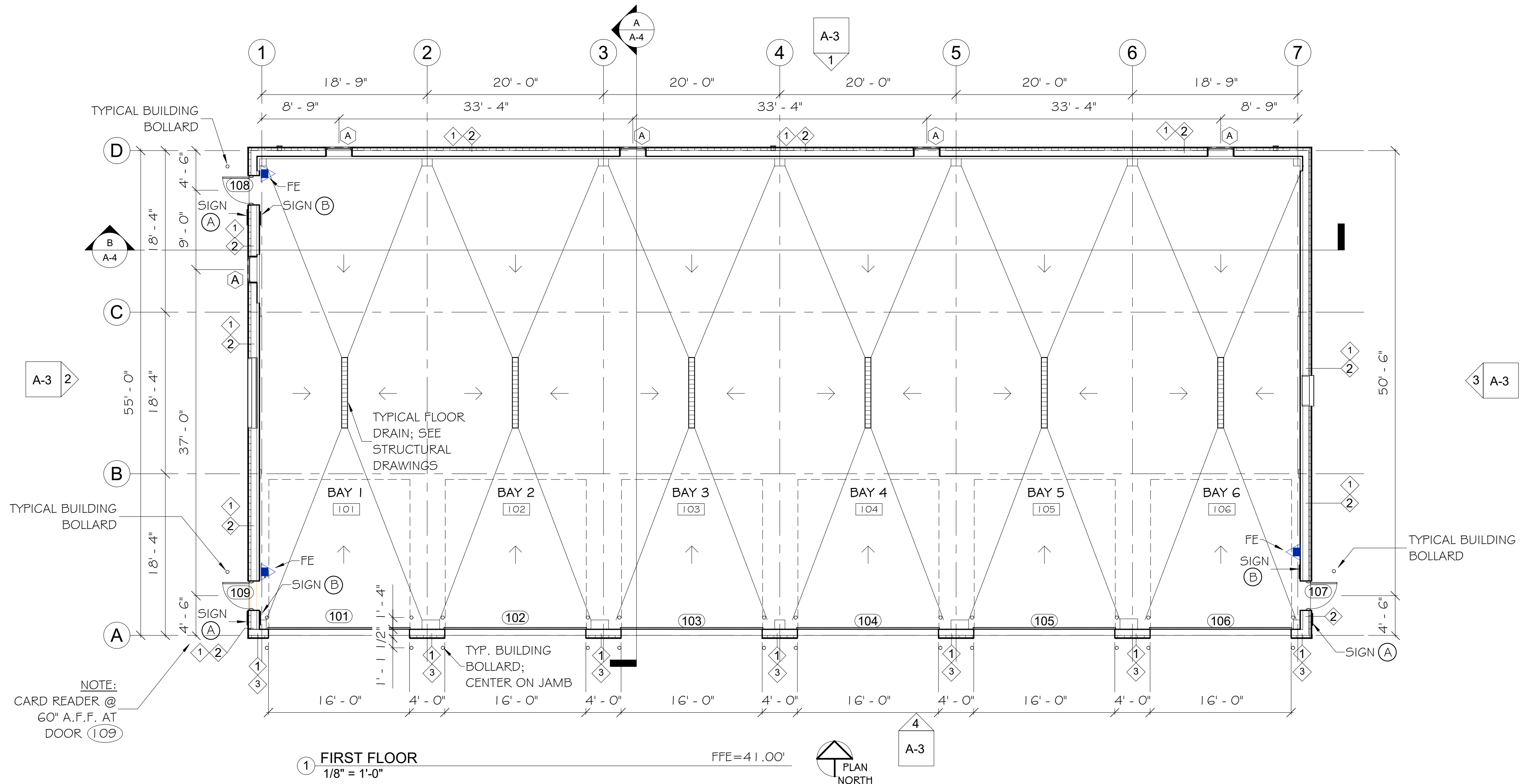
**NFPA LEGEND**

SYMBOL	DESCRIPTION
	EXIT LIGHT
	ABC FIRE EXTINGUISHER w/ BRACKET
	EMERGENCY LIGHT
	EMERGENCY / EXIT LIGHT
	EXTERIOR EMERGENCY LIGHT

**OCCUPANT LOADS**

IBC 2015	14
NFPA 2021	6 (MP)

- NOTES**
- SEE SHEET A-8 FOR ACCESSIBILITY DETAILS & NOTES.
  - SEE SHEET A-8 FOR ADA SIGNAGE.
  - SEE SHEET A-8 ACCESSIBILITY DETAILS AND NOTES FOR MOUNTING HEIGHTS OF LIFE SAFETY DEVICES.



**WALL TYPES**


Scale: As indicated

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA  
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By	Date	By	Date
Designed: MFH	03/25/24	Checked: MFH	03/25/24
Drawn: MGK	03/25/24		

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AEI PROJ. NO.: 20020 CAD FILE:

**MAINE TURNPIKE**

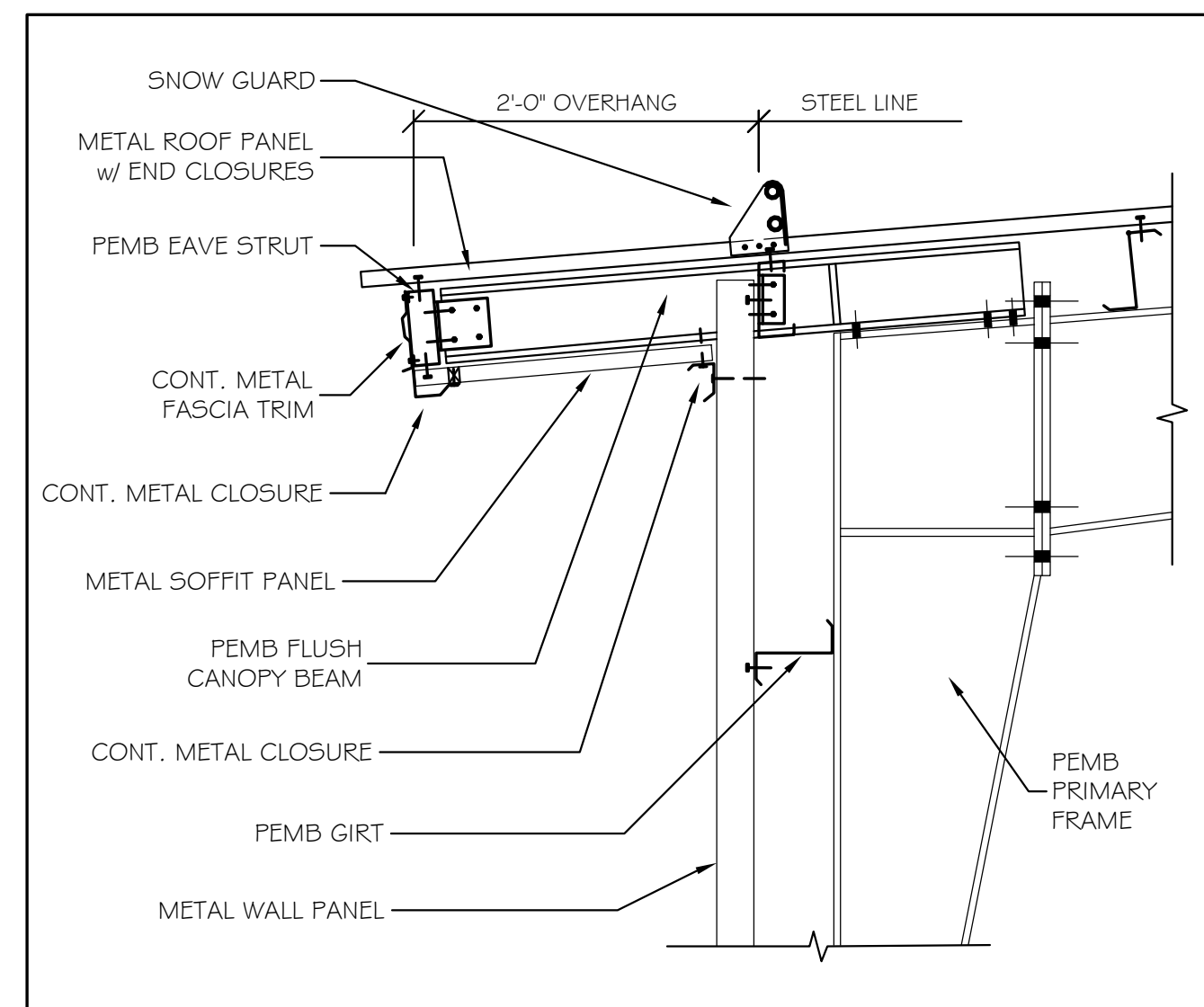
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

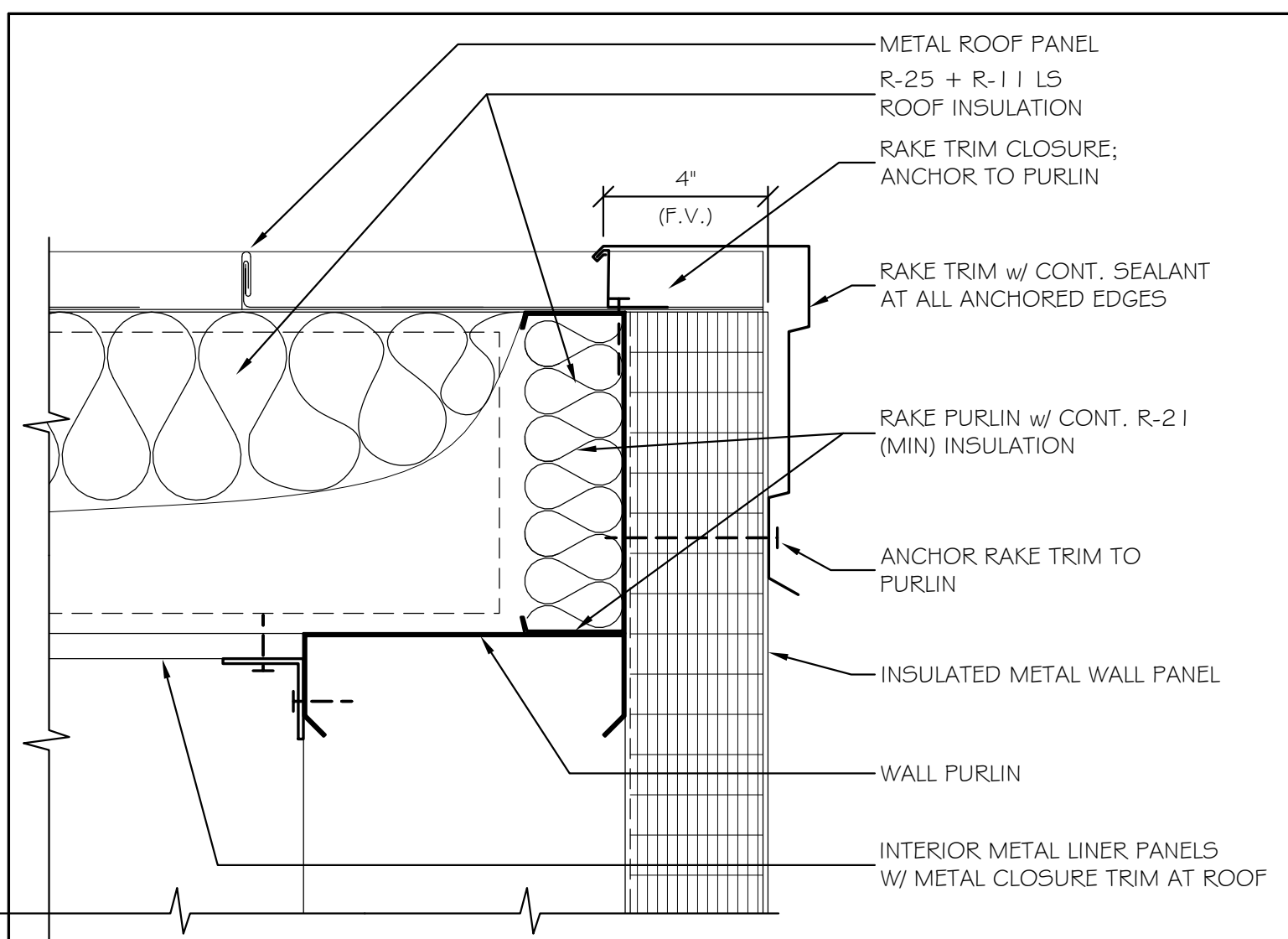
**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**CODE COMPLIANCE & FIRST FLOOR PLANS**

SHEET NUMBER: A-1

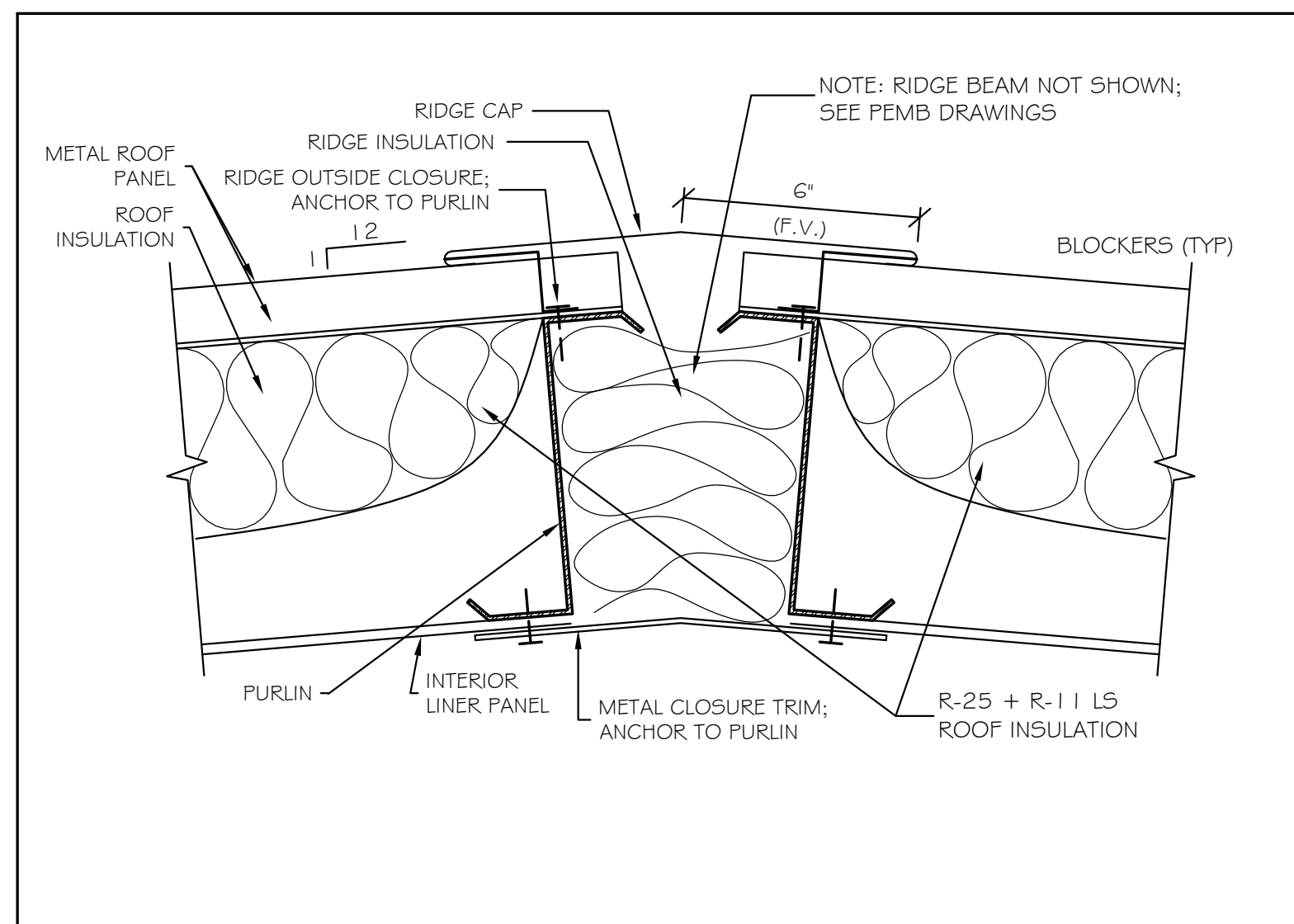
CONTRACT: 2024.09 12 OF 32



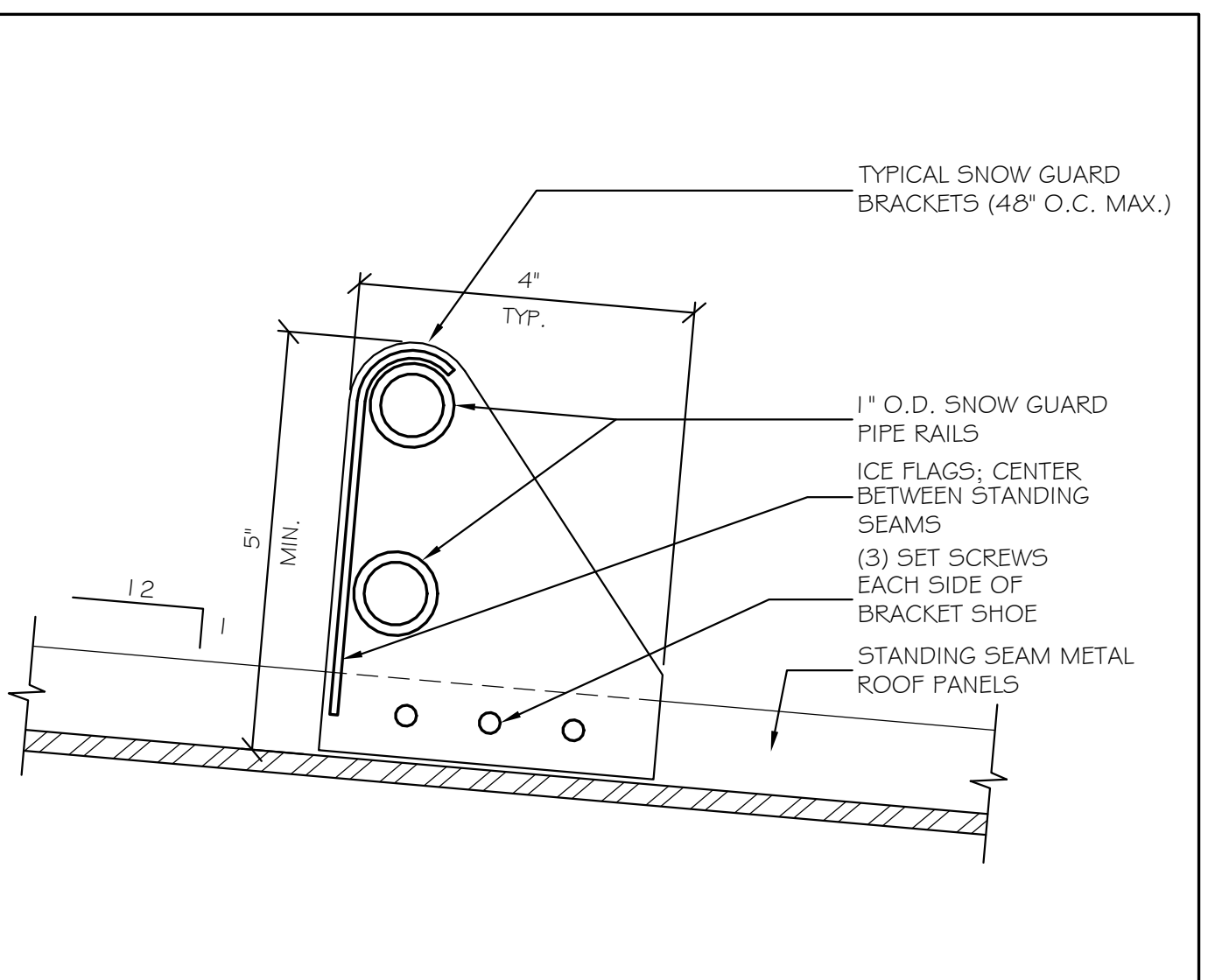
② OVERHANG DETAIL 1" = 1'-0"



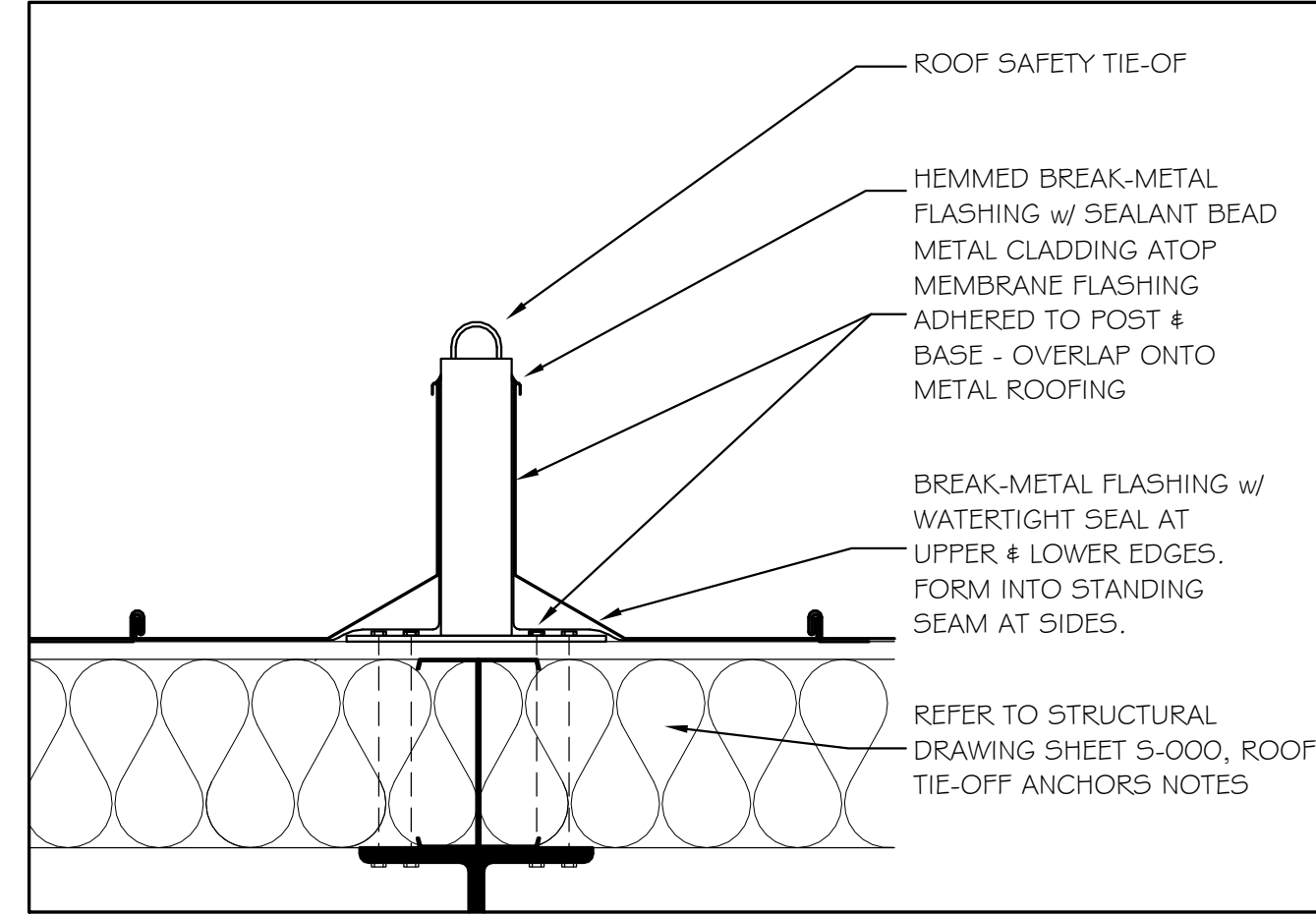
③ RAKE DETAIL 3" = 1'-0"



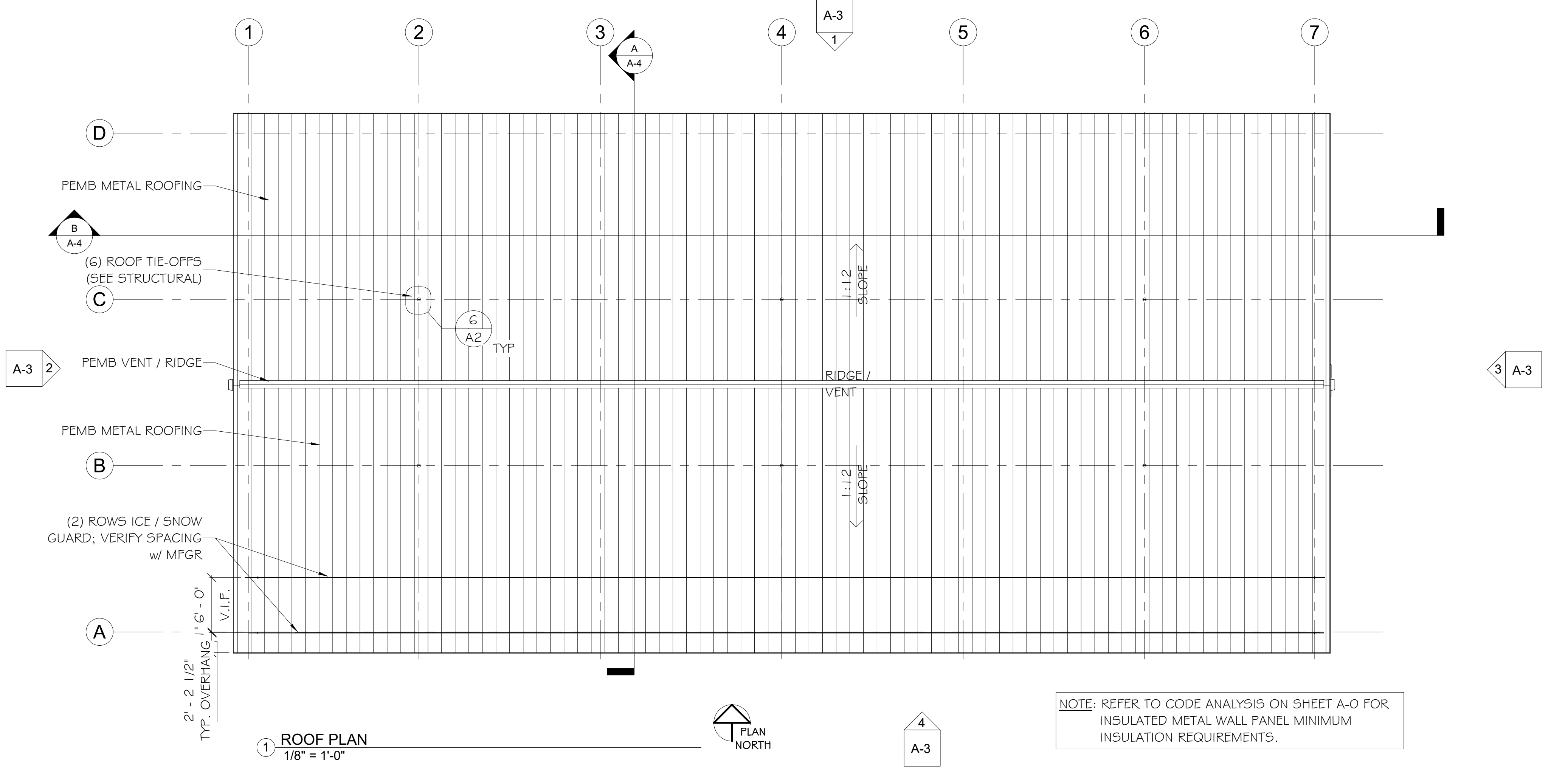
④ RIDGE DETAIL 3" = 1'-0"



⑤ ICE / SNOW GUARD DETAIL HALF SIZE



⑥ FLASHING AT ROOF SAFETY TIE-OFF 1/2" = 1'-0"



① ROOF PLAN 1/8" = 1'-0"

NOTE: REFER TO CODE ANALYSIS ON SHEET A-0 FOR INSULATED METAL WALL PANEL MINIMUM INSULATION REQUIREMENTS.

Scale: As indicated

No.	Revision	By	Date

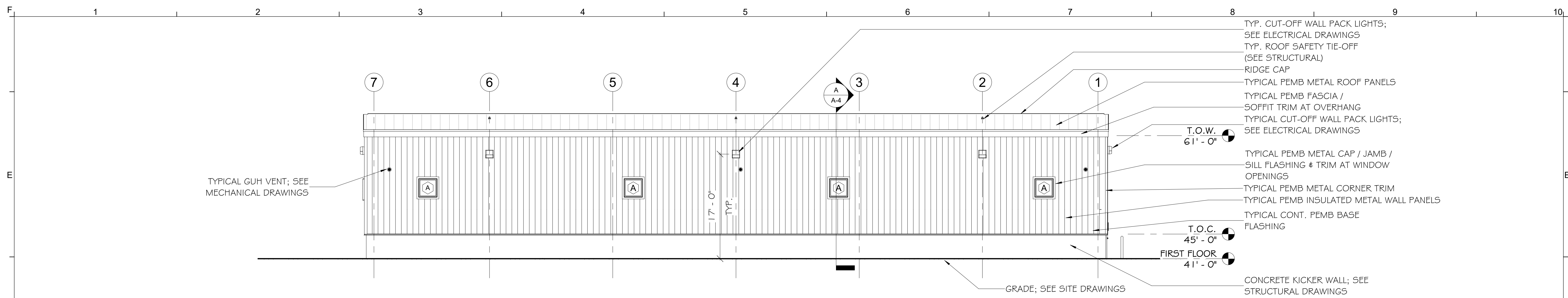
Designed by: MICHAEL F. HAYS, RA  
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By	Date	By	Date
Designed: MFH	03/25/24	Checked: MFH	03/25/24
Drawn: MGK	03/25/24		

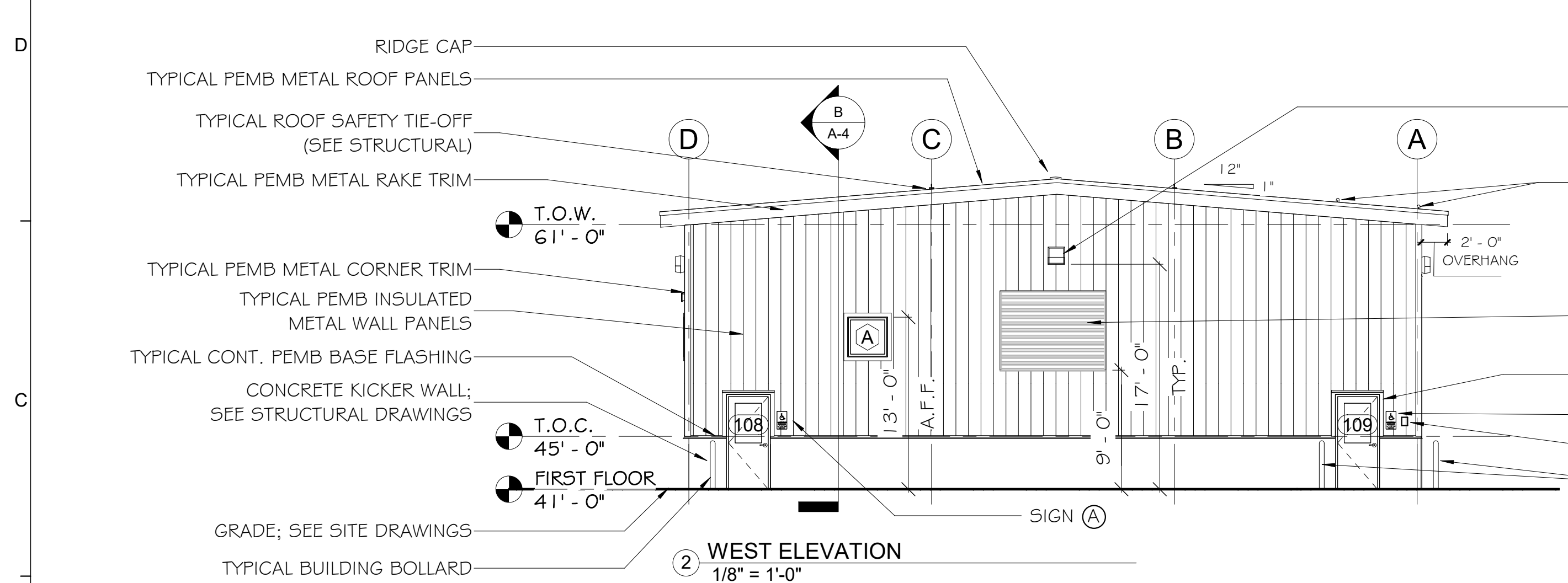
GRANT HAYS ASSOCIATES  
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MAINE TURNPIKE  
THE GOLD STAR MEMORIAL HIGHWAY  
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

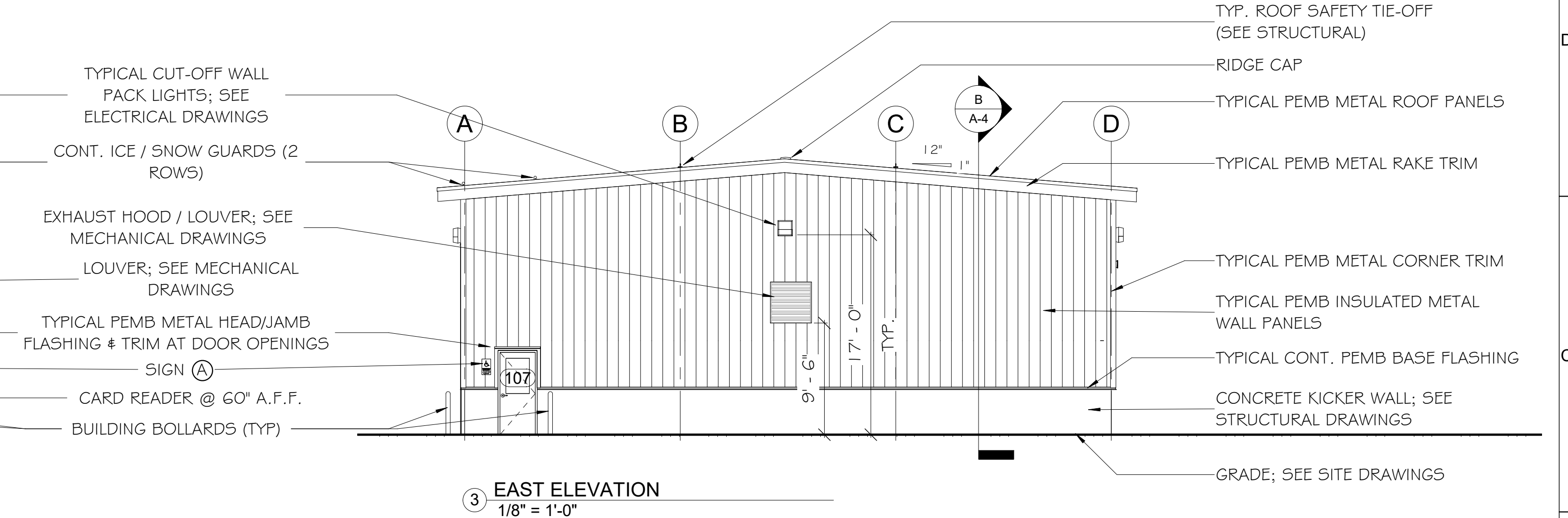
CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
ROOF PLAN & DETAILS  
SHEET NUMBER: A-2  
CONTRACT: 2024.09  
13 OF 32



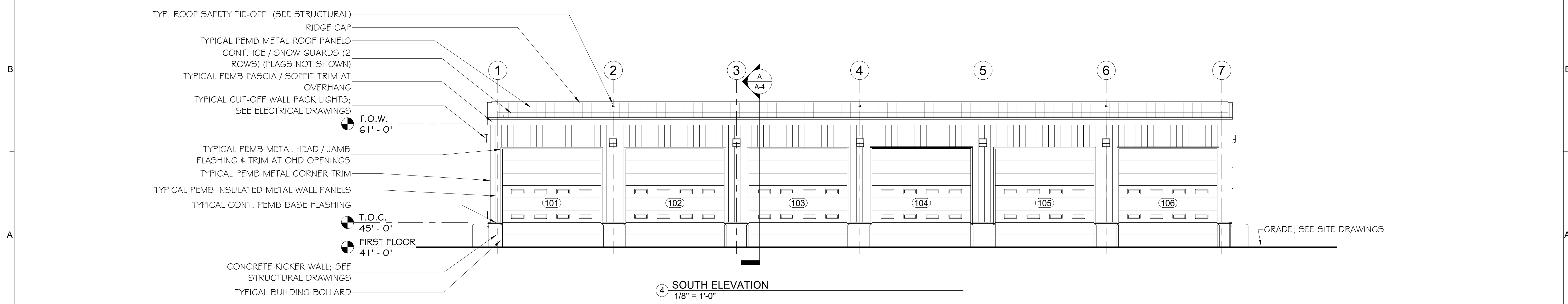
1 NORTH ELEVATION  
1/8" = 1'-0"



2 WEST ELEVATION  
1/8" = 1'-0"



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



4 SOUTH ELEVATION  
1/8" = 1'-0"

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

No.	Revision	By	Date

Designed by:  
MICHAEL F. HAYS, RA  
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By	Date	By	Date
Designed: MFH	03/25/24	Checked: MFH	03/25/24
Drawn: MGK	03/25/24		

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THE GOLD STAR MEMORIAL HIGHWAY

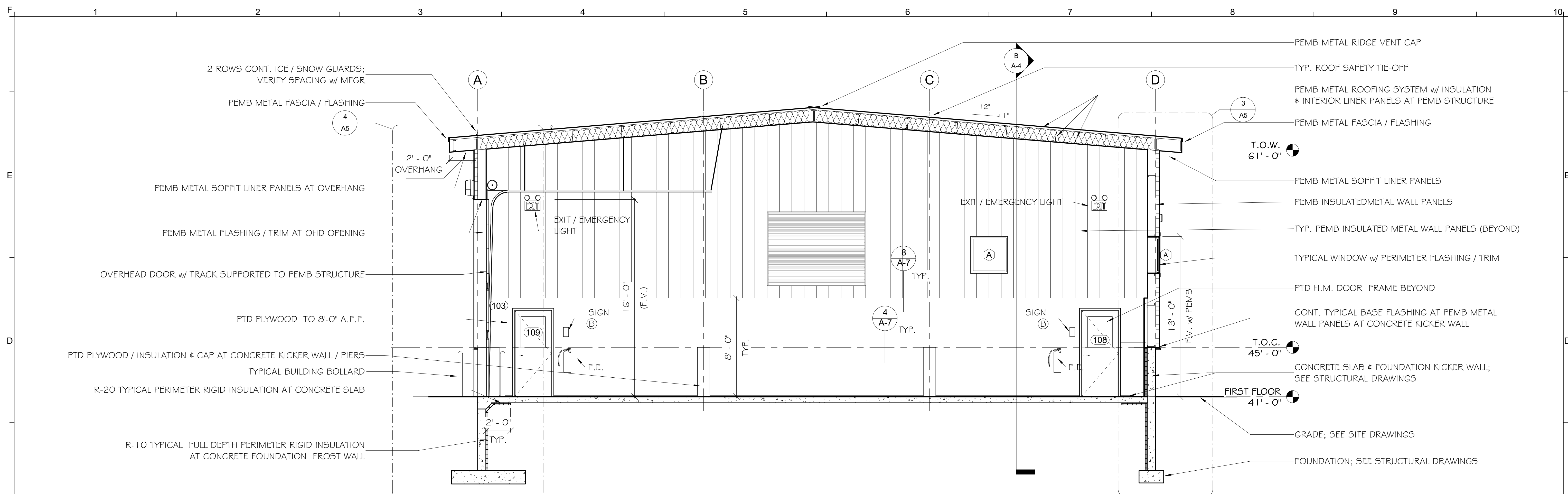
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
ELEVATIONS

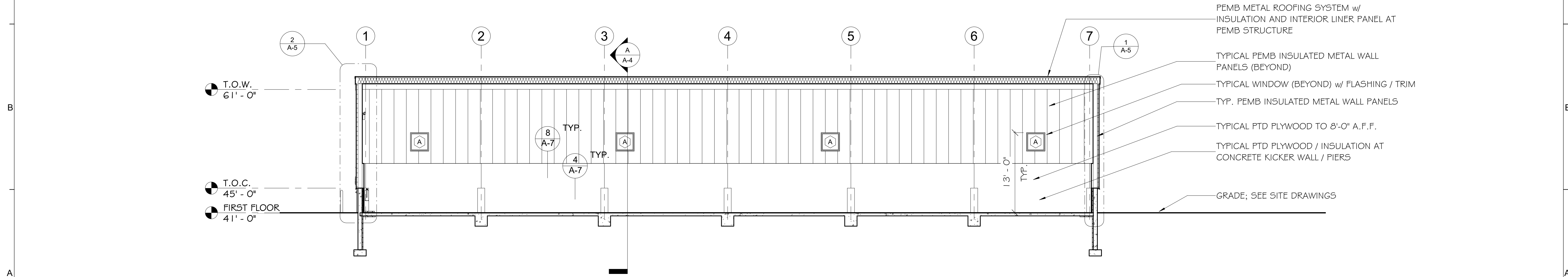
SHEET NUMBER: A-3

CONTRACT: 2024.09

14 OF 32



**A BUILDING SECTION A**  
1/4" = 1'-0"



**B BUILDING SECTION B**  
1/8" = 1'-0"

NOTE: REFER TO CODE ANALYSIS ON SHEET A-0 FOR INSULATED METAL WALL PANEL MINIMUM INSULATION REQUIREMENTS.

Scale: As indicated

No.	Revision	By	Date

Designed by:  
MICHAEL F. HAYS, RA  
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By	Date	By	Date
Designed: MFH	03/25/24	Checked: MFH	03/25/24
Drawn: MGK	03/25/24		

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**THE GOLD STAR MEMORIAL HIGHWAY**

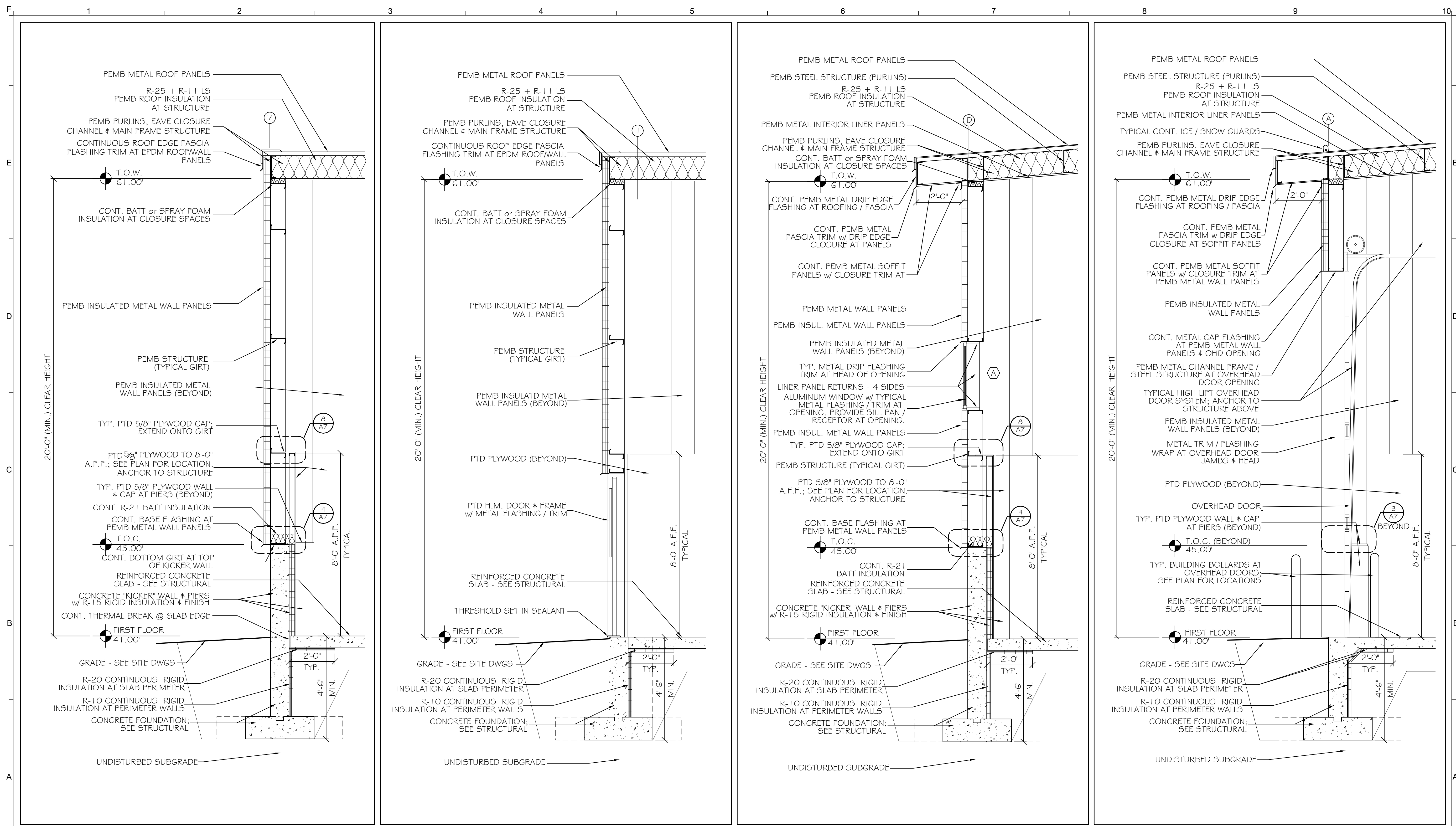
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**BUILDING SECTIONS**

SHEET NUMBER: A-4

CONTRACT: 2024.09

15 OF 32



① TYPICAL WALL SECTION 1/2" = 1'-0"    ② TYP. WALL SECTION AT H.M. DOOR 1/2" = 1'-0"    ③ TYP. WALL SECTION AT WINDOW 1/2" = 1'-0"    ④ TYP. WALL SECTION AT OVERHEAD DOOR 1/2" = 1'-0"

Scale: As indicated

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA  
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Designed: MFH	03/25/24	Checked: MFH	03/25/24
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AEI PROJ. NO.: 20020 CAD FILE:

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

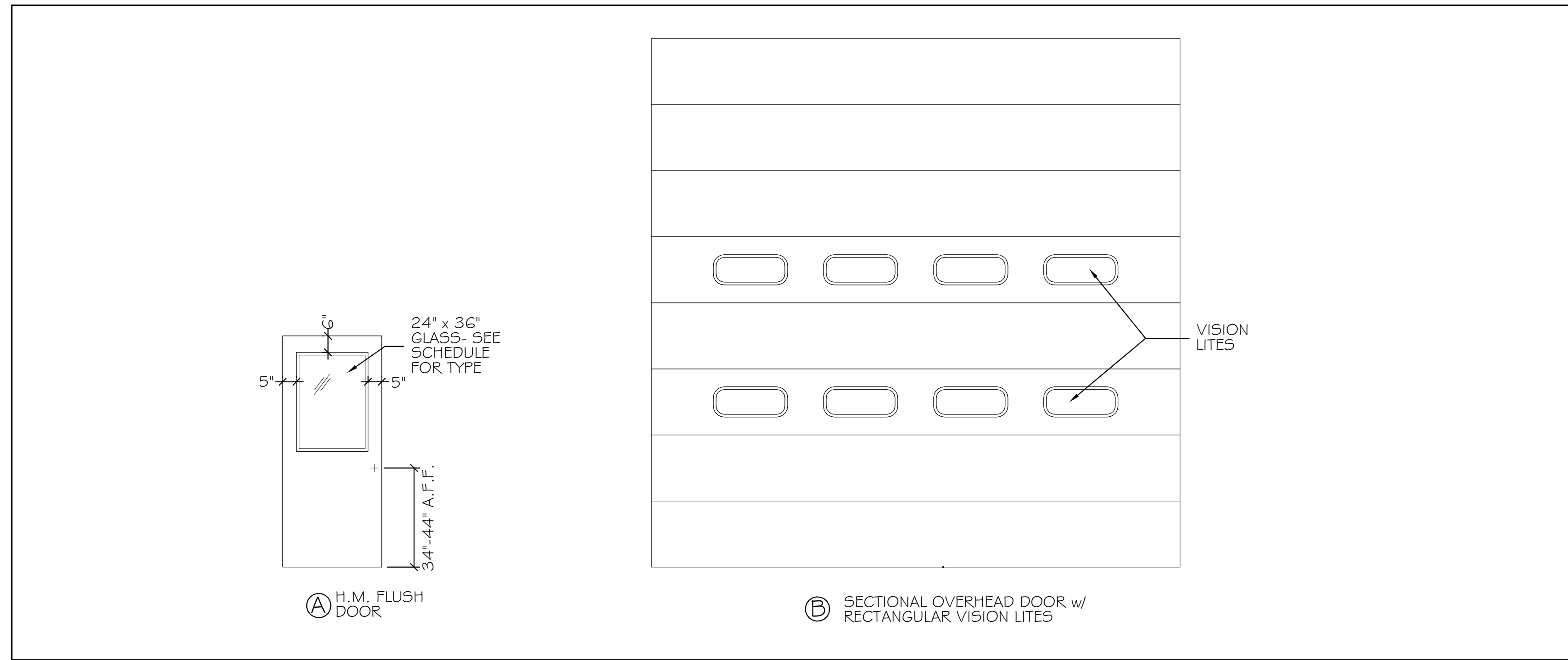
**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**WALL SECTIONS**

SHEET NUMBER: A-5

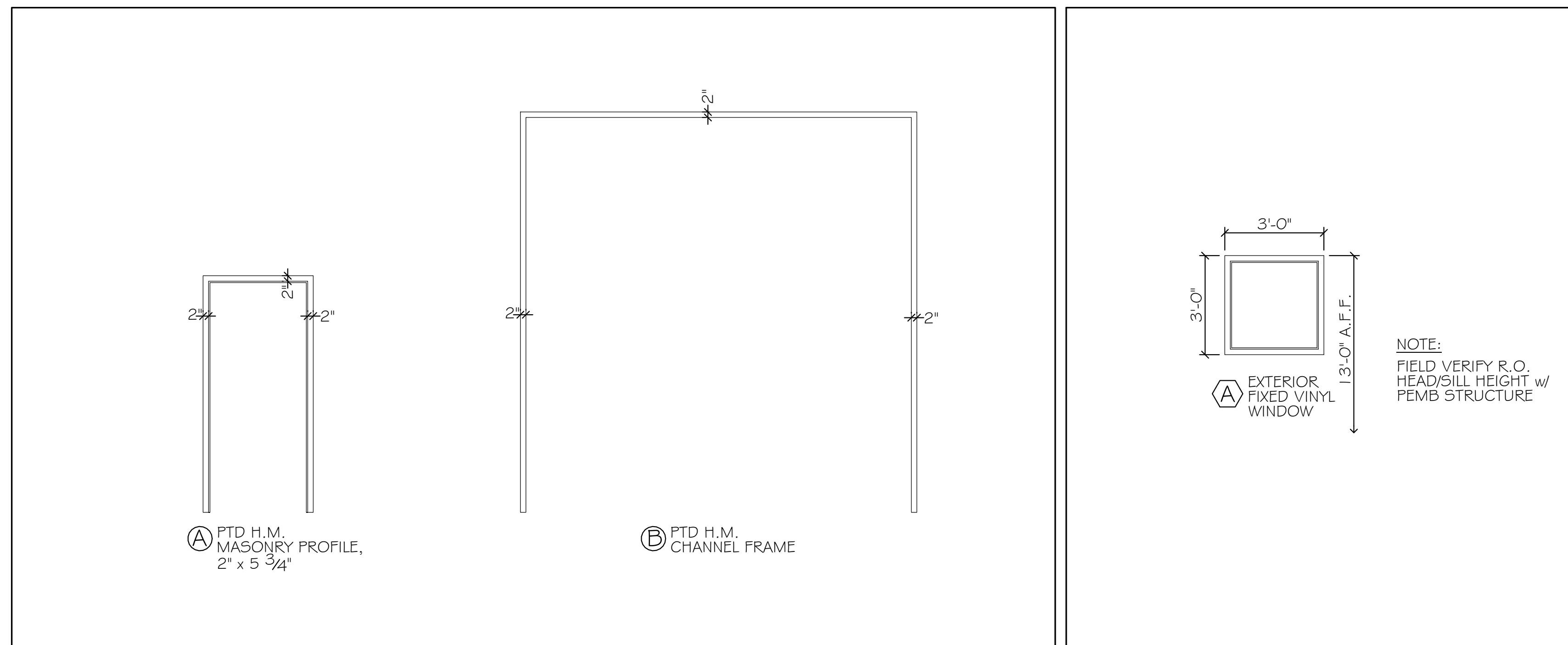
CONTRACT: 2024.09

16 OF 32





DOOR TYPES 3/8" = 1'-0"



FRAME TYPES 3/8" = 1'-0" WINDOW TYPE 3/8" = 1'-0"

**DOOR SCHEDULE**

ABBREVIATIONS

ALUM	AL	ALUMINUM	MAS	MASONRY
DW	DW	DRYWALL	MFGR	MANUFACTURER
ES	ES	EDGE STRIP	OCD	OVERHEAD COILING DOOR
EMHO	EMHO	ELECTRO MAGNETIC HOLD OPENER	OHD	OVERHEAD DOOR
GL	GL	GLASS	T	TEMPERED
HM	HM	HOLLOW METAL	T-BREAK	THERMAL BREAK
INSUL	INSUL	INSULATED	TH	THERMAL INSULATED
			TS	TRANSITION STRIP

NO.	TYPE	SIZE (w x h)	THK	INSUL	HDWE	FR	GLASS		REMARKS	FRAMES				THRESHOLDS			
							TYPE	SIZE		TYPE	FR	PROFILE	DETAILS HEAD	DETAILS JAMB	MATERIAL	DETAILS SILL	FIN
101	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
102	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
103	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
104	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
105	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
106	B	16x16' OHD	MFGR	YES	MFGR	---	MFGR	MFGR		B	---	MAS	5-A7	6-A7	---	---	7-A7
107	A	3' x 7'	1 3/4"	YES	HW-2	---	T / TH	24" x 36"		A	---	MAS	9-A7	10-A7	ALUM	11-A7	---
108	A	3' x 7'	1 3/4"	YES	HW-2	---	T / TH	24" x 36"		A	---	MAS	9-A7	10-A7	ALUM	11-A7	---
109	A	3' x 7'	1 3/4"	YES	HW-1	---	T / TH	24" x 36"		A	---	MAS	9-A7	10-A7	ALUM	11-A7	---

**WINDOW SCHEDULE**

ABBREVIATION MFGR MANUFACTURER

NO.	TYPE	MANUFACTURER		NOMINAL SIZE		DETAILS					REMARKS	
		MFGR	MODEL	WIDTH	HEIGHT	HEAD	JAMB	SILL	MUNT	MULL		
A	FIXED	VINYL	MFGR	3'-0"	3'-0"	13-A7	14-A7	15-A7	---	---	---	LOW 'E' INSULATED GLASS

**FINISH SCHEDULE**

ABBREVIATIONS

CH	CONCRETE w/ HARDENER	MLP	METAL LINER PANEL
CMU	CONCRETE MASONRY UNIT	P	PAINT
DFP	DRY FALL PAINT	RB	RUBBER BASE
E	EXISTING	RT	RUBBER TILE
EP	EPOXY PAINT		
FRP	FIBERGLASS REINFORCED PANELS	SAT	SUSPENDED ACOUSTICAL TILE
FV	FIELD VERIFY	SS	STAINLESS STEEL
GL	GLASS	WD	WOOD
GWB	GYP'SUM WALL BOARD		

RM NO.	NAME	WALLS				FLOORS				CEILING A		CEILING B		REMARKS
		N	E	S	W	MAT'L	BASE	MAT'L	BASE	TYPE	HT.	TYPE	HT.	
101	BAY 1	P / MLP	---	P / MLP	---	CONC	---	---	---	MLP	STRUCT.	---	---	
102	BAY 2	P / MLP	---	P / MLP	---	CONC	---	---	---	MLP	STRUCT.	---	---	
103	BAY 3	P / MLP	---	P / MLP	---	CONC	---	---	---	MLP	STRUCT.	---	---	
104	BAY 4	P / MLP	---	P / MLP	---	CONC	---	---	---	MLP	STRUCT.	---	---	
105	BAY 5	P / MLP	---	P / MLP	---	CONC	---	---	---	MLP	STRUCT.	---	---	
106	BAY 6	P / MLP	---	P / MLP	---	CONC	---	---	---	MLP	STRUCT.	---	---	

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

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: MFH	03/25/24	Checked: MFH	03/25/24
Drawn: MGK	03/25/24		

**GRANT HAYS ASSOCIATES**

ARCHITECTURE & INTERIOR DESIGN  
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**MAINE TURNPIKE**

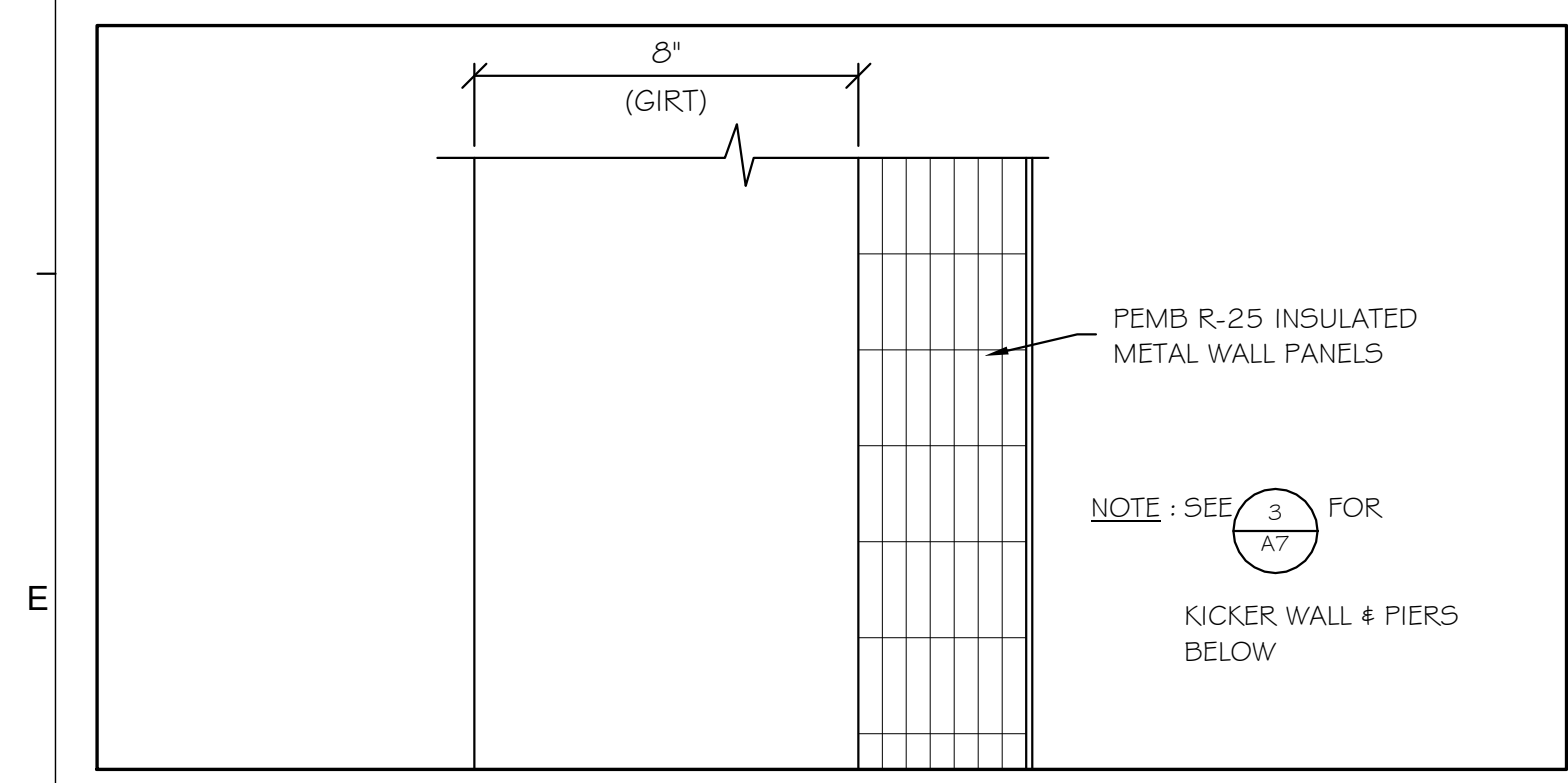
**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

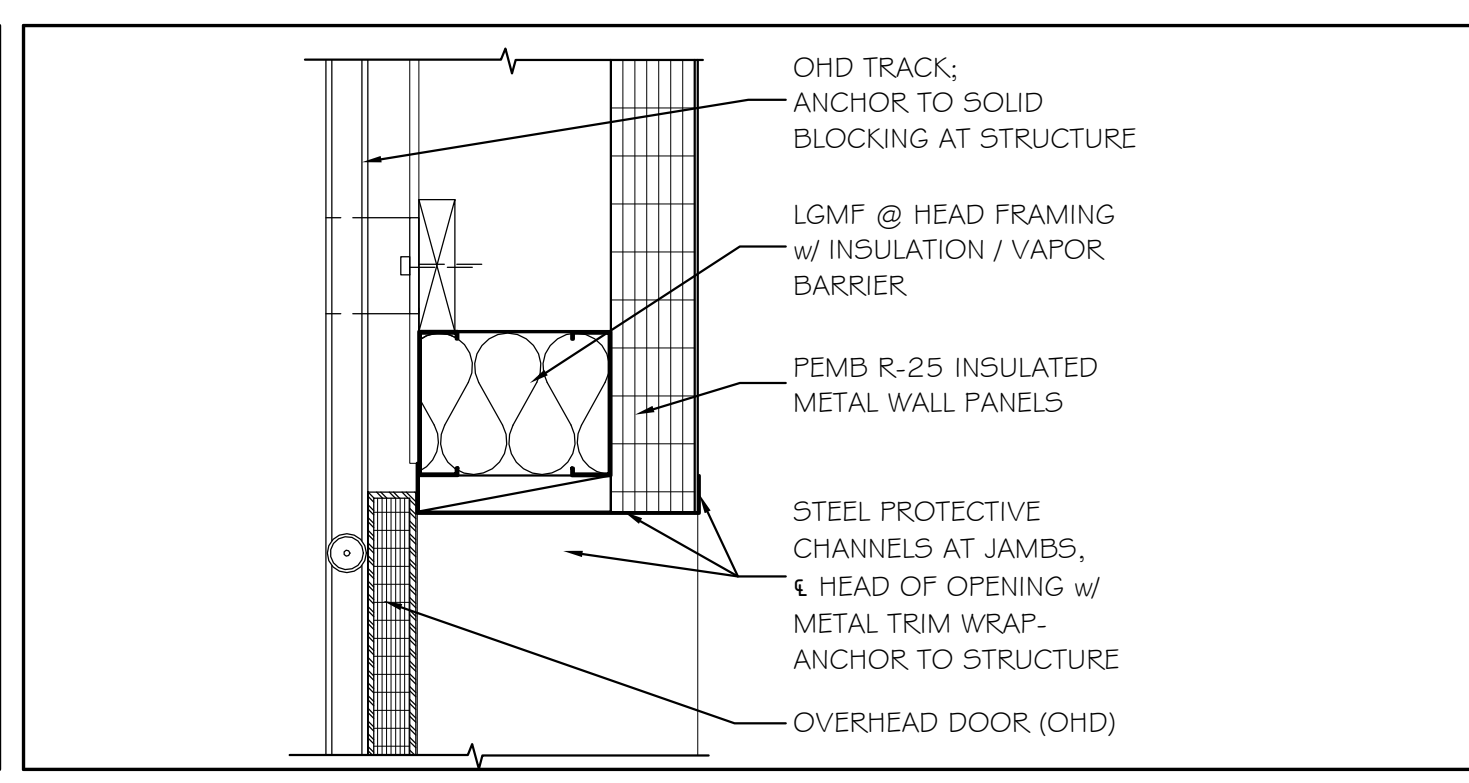
**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**DOOR, WINDOW & FINISH SCHEDULES**

SHEET NUMBER: A-6

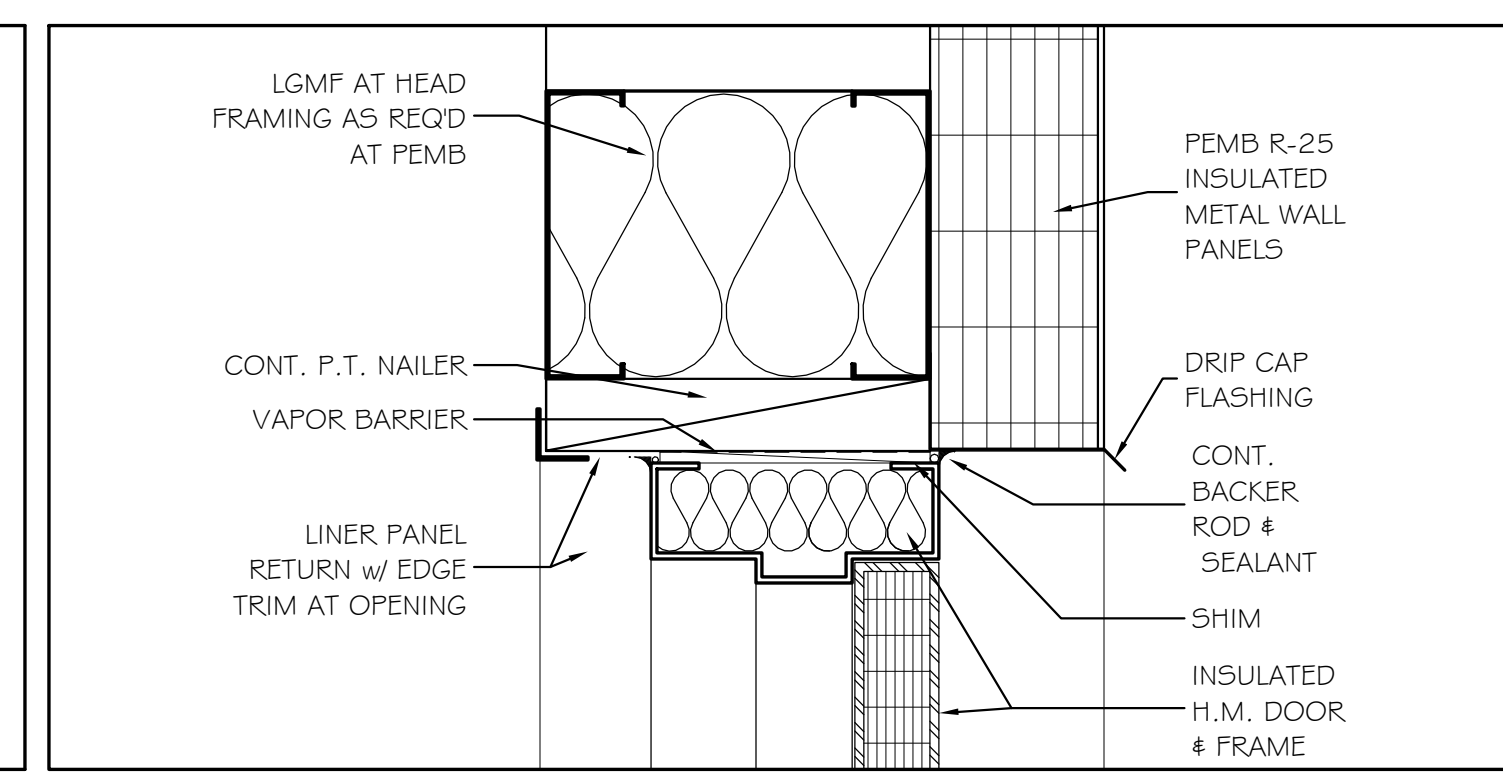
CONTRACT: 2024.09 17 OF 32



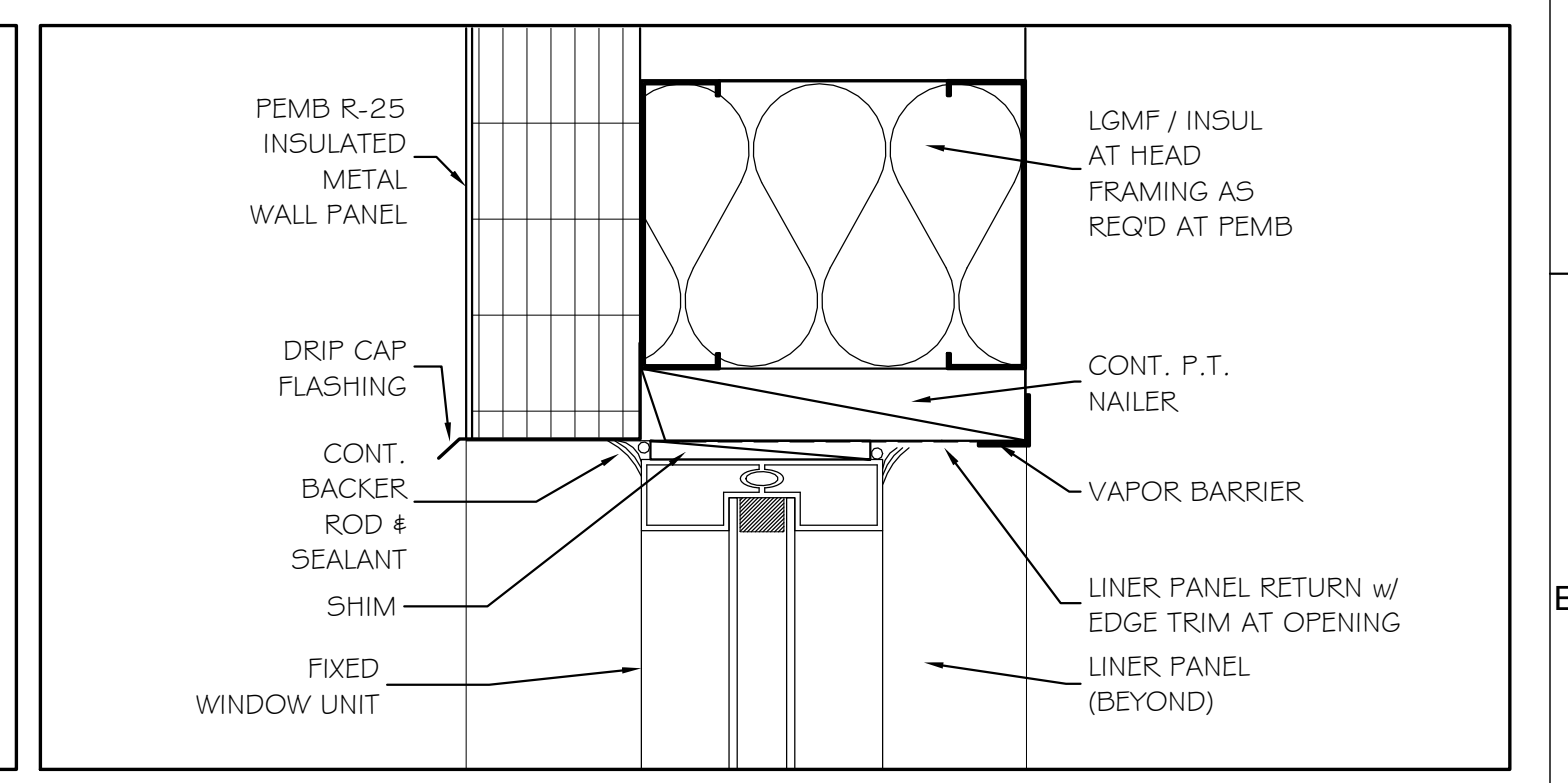
1 PARTITION TYPE 3" = 1'-0"



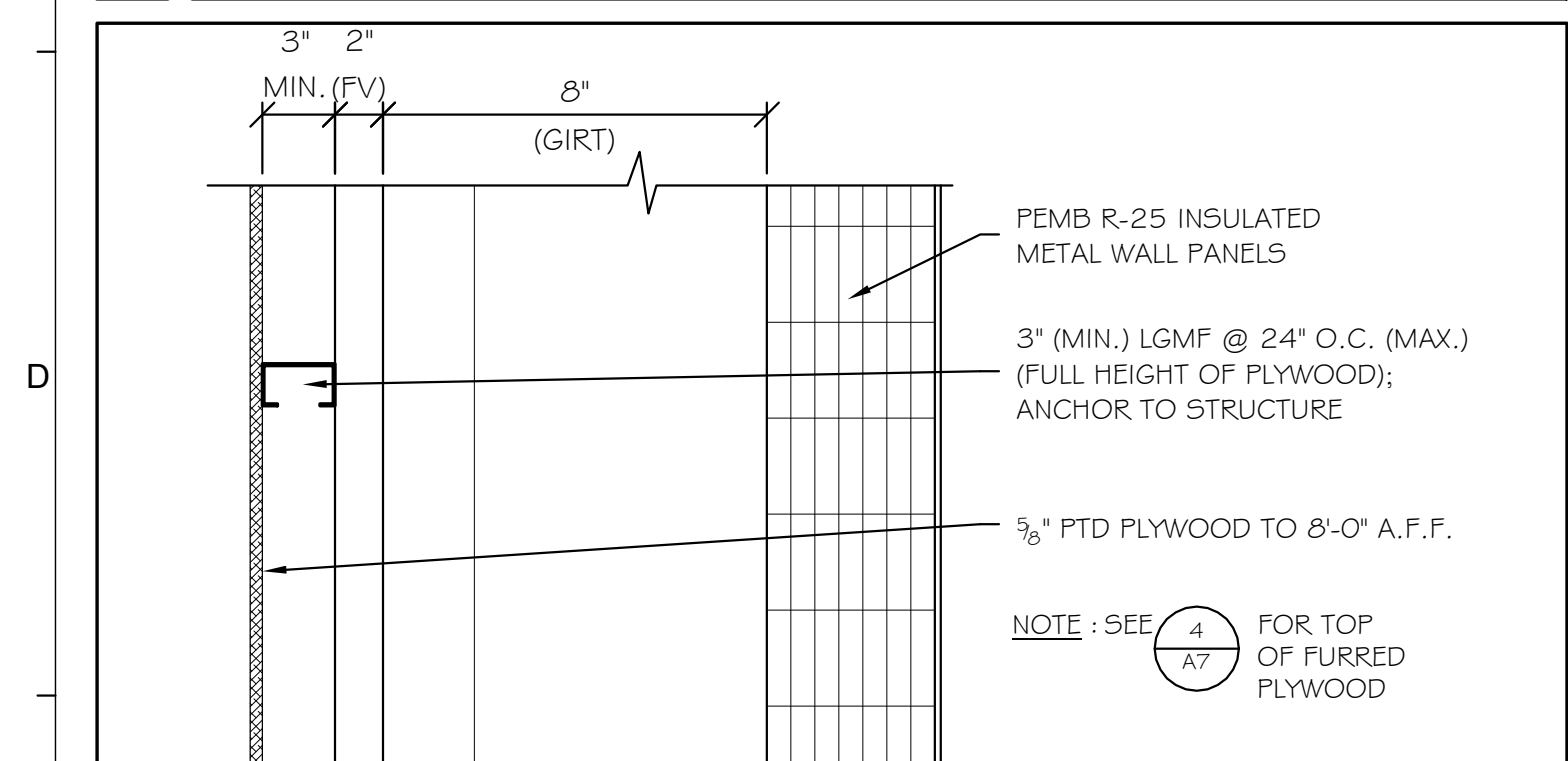
5 HEAD AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL 1/2" = 1'-0"



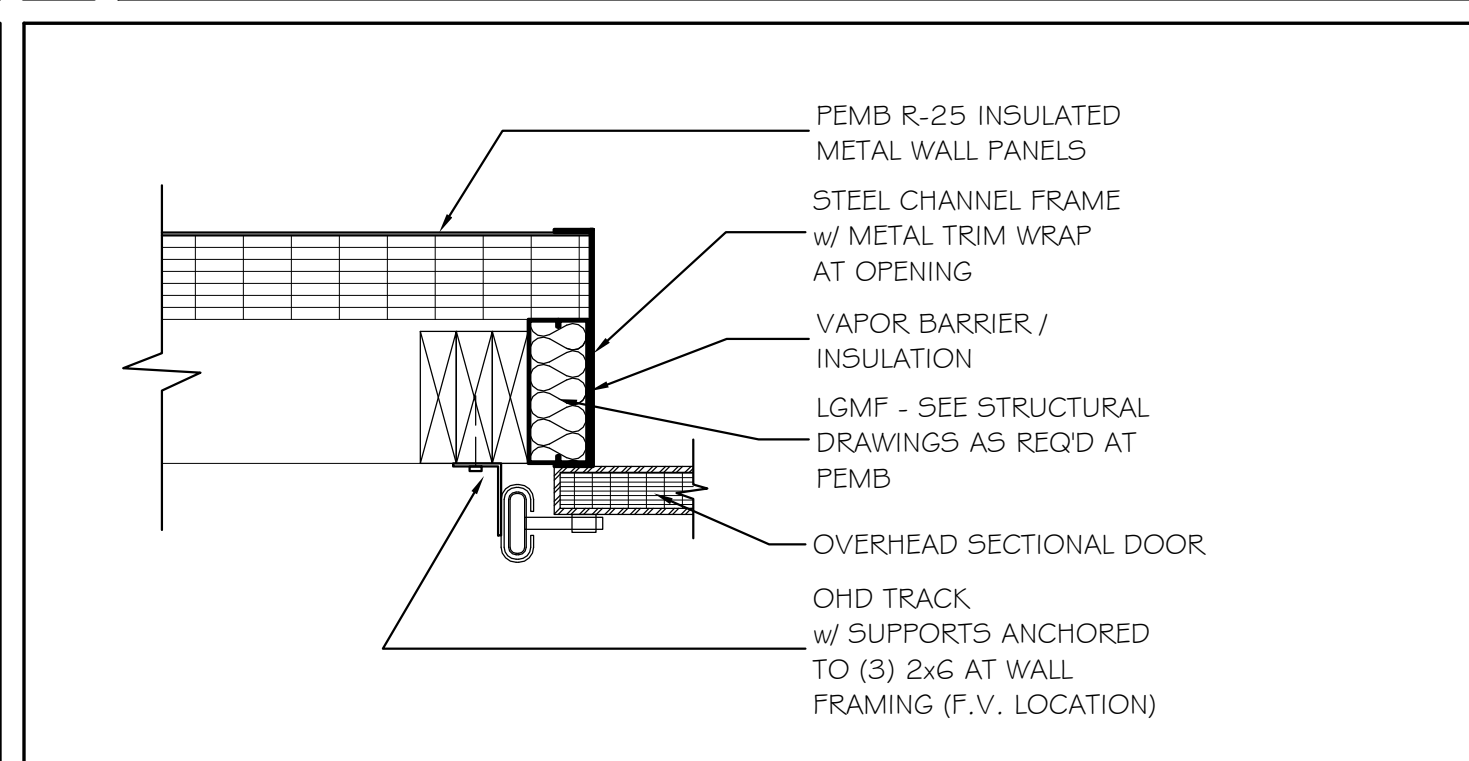
9 EXT. H.M. DOOR HEAD DETAIL 3" = 1'-0"



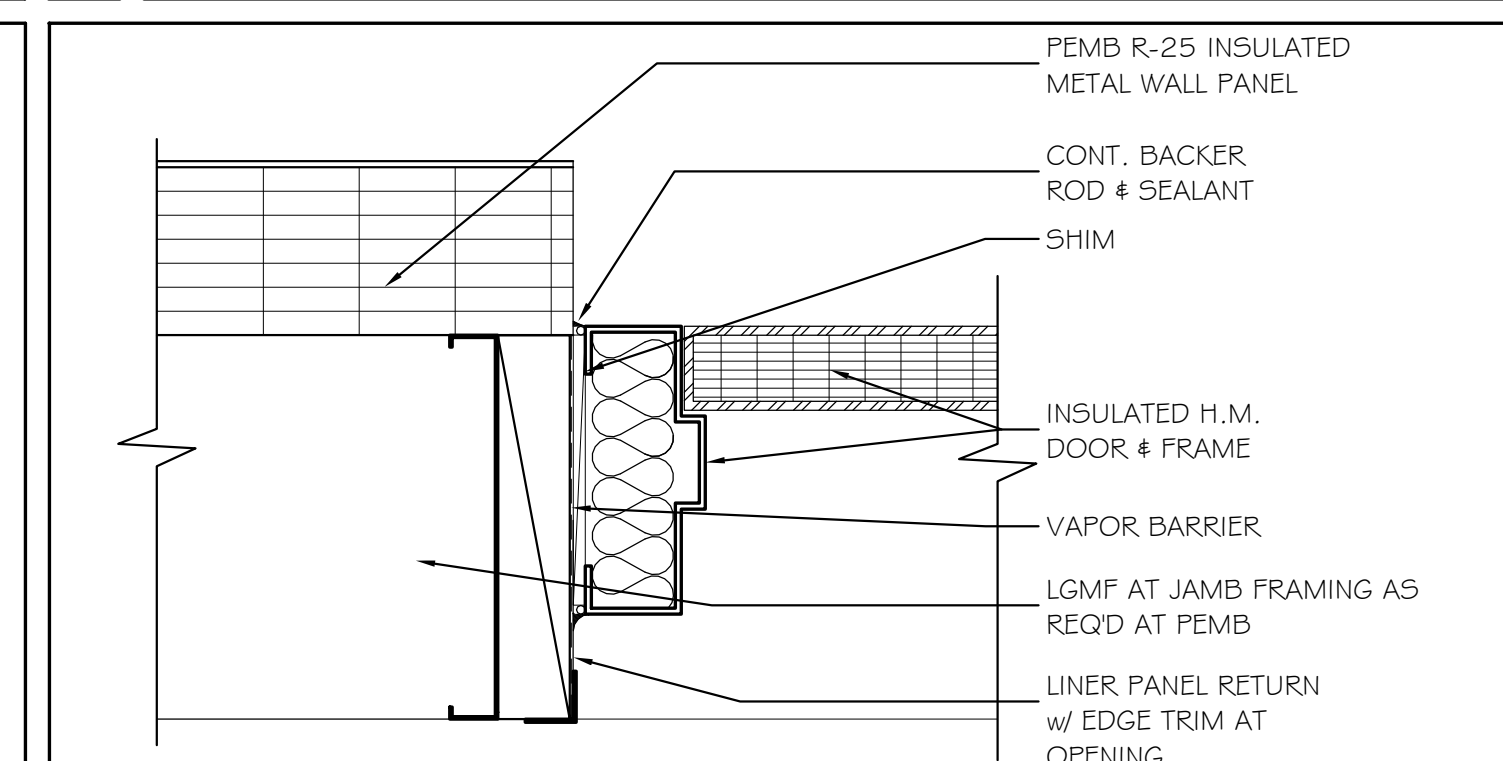
13 WINDOW HEAD DETAIL 3" = 1'-0"



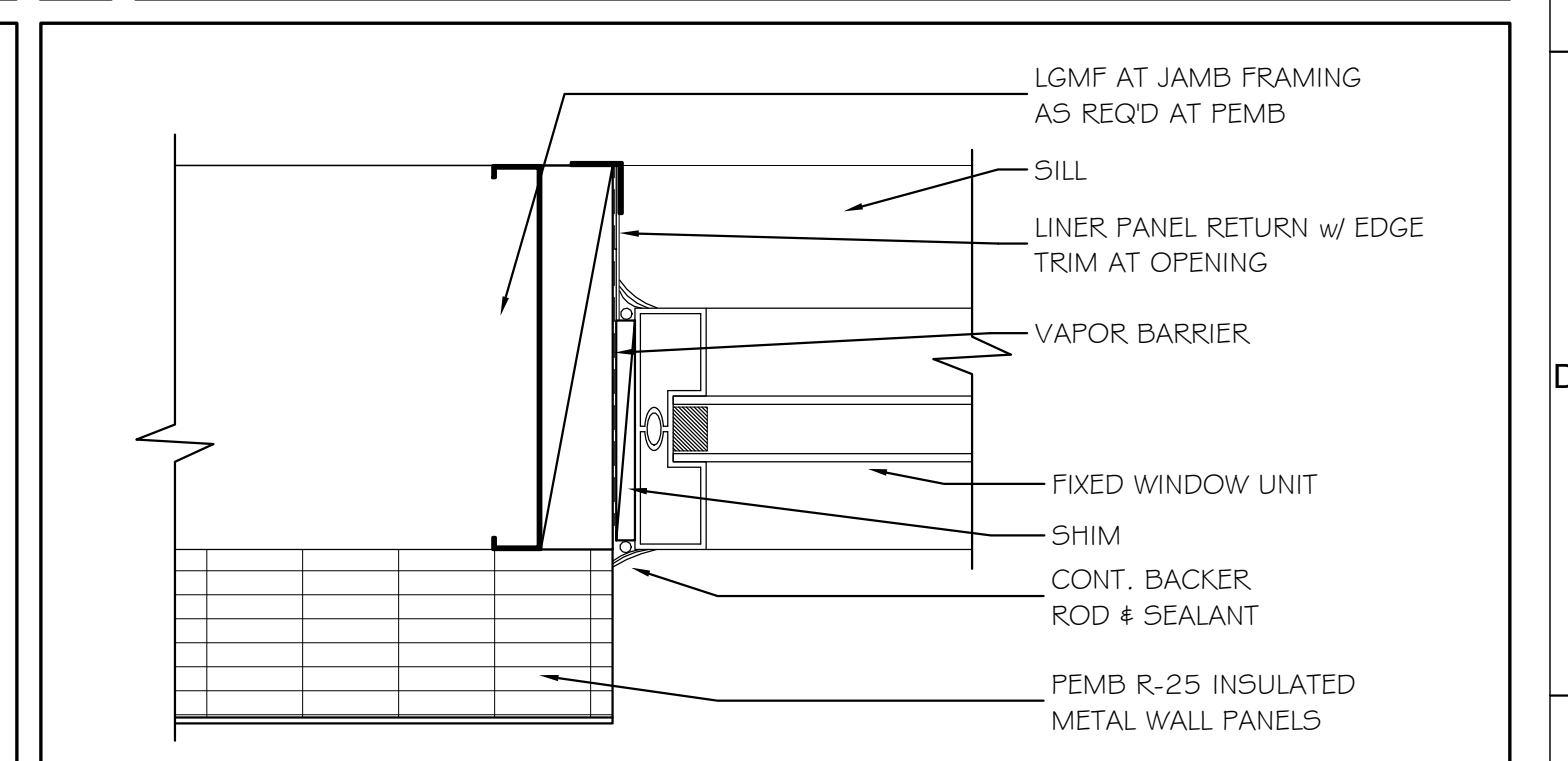
2 PARTITION TYPE 3" = 1'-0"



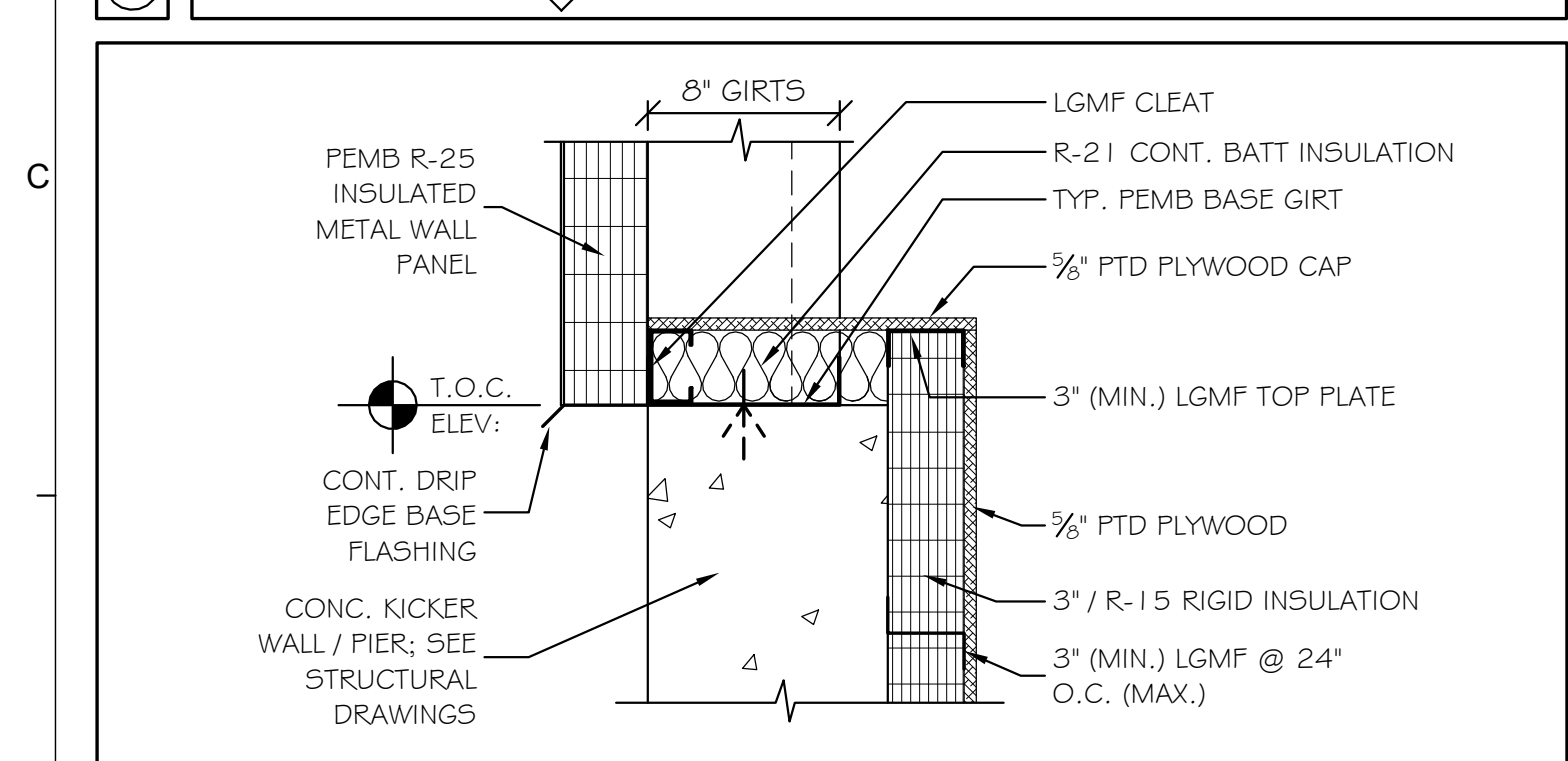
6 JAMB AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL 1/2" = 1'-0"



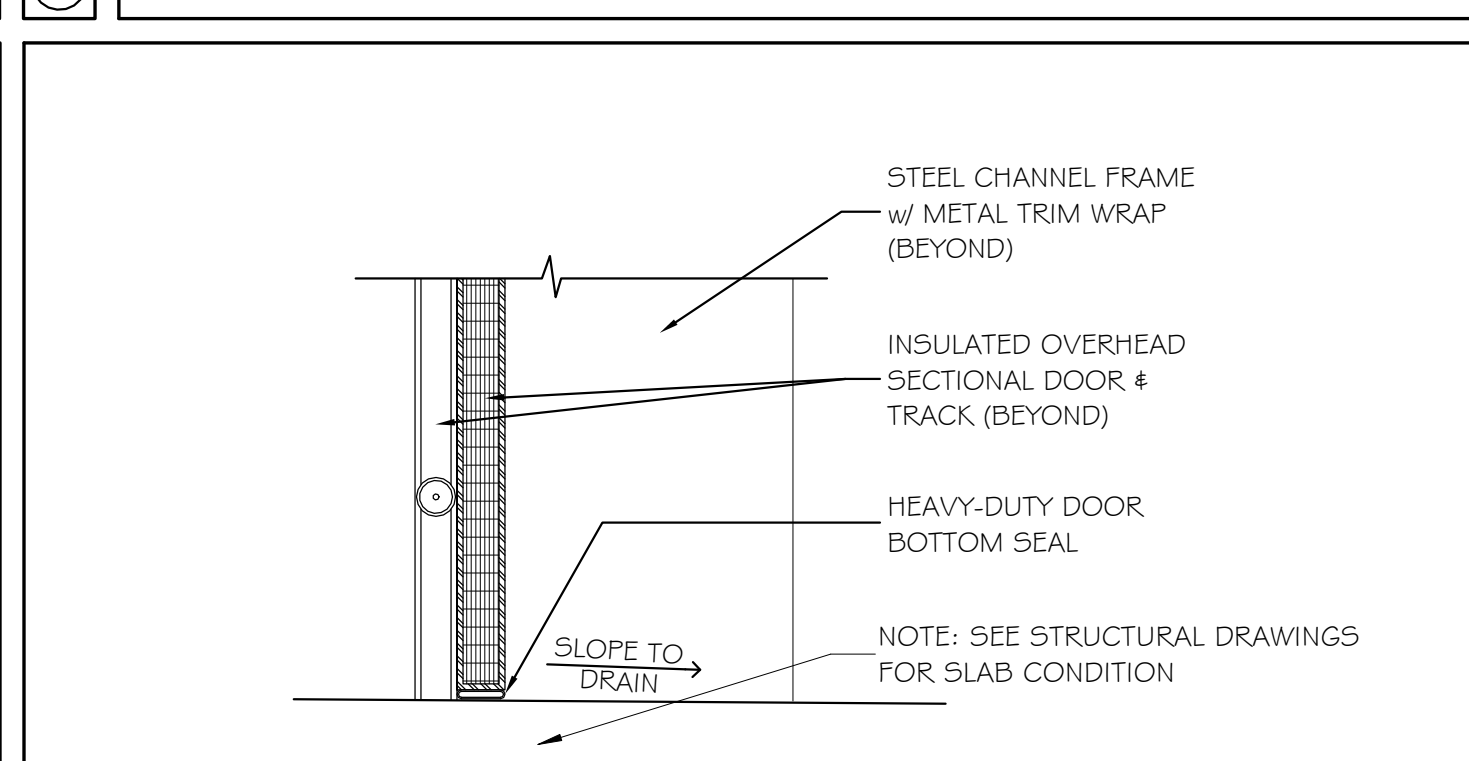
10 EXT. H.M. DOOR JAMB DETAIL 3" = 1'-0"



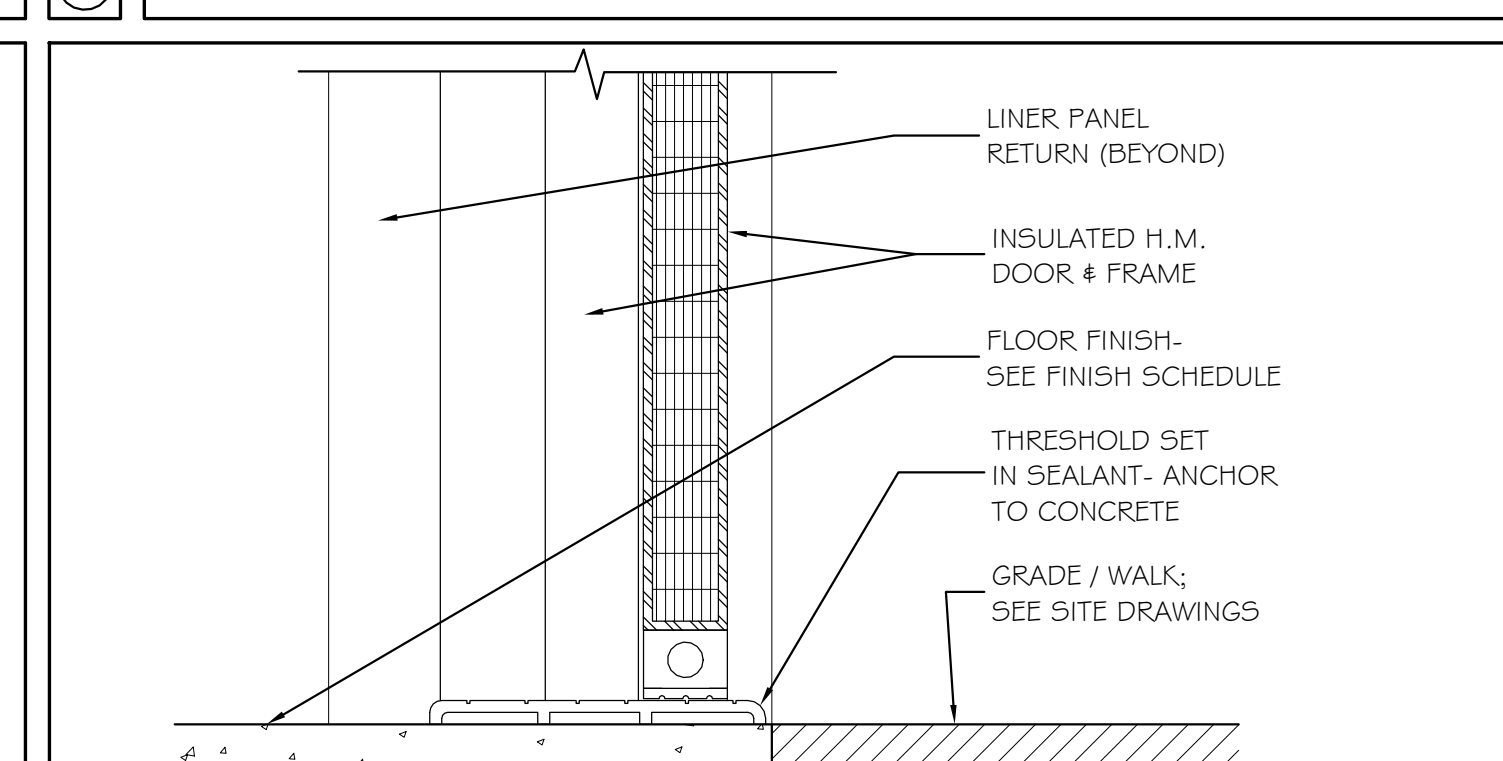
14 WINDOW JAMB DETAIL 3" = 1'-0"



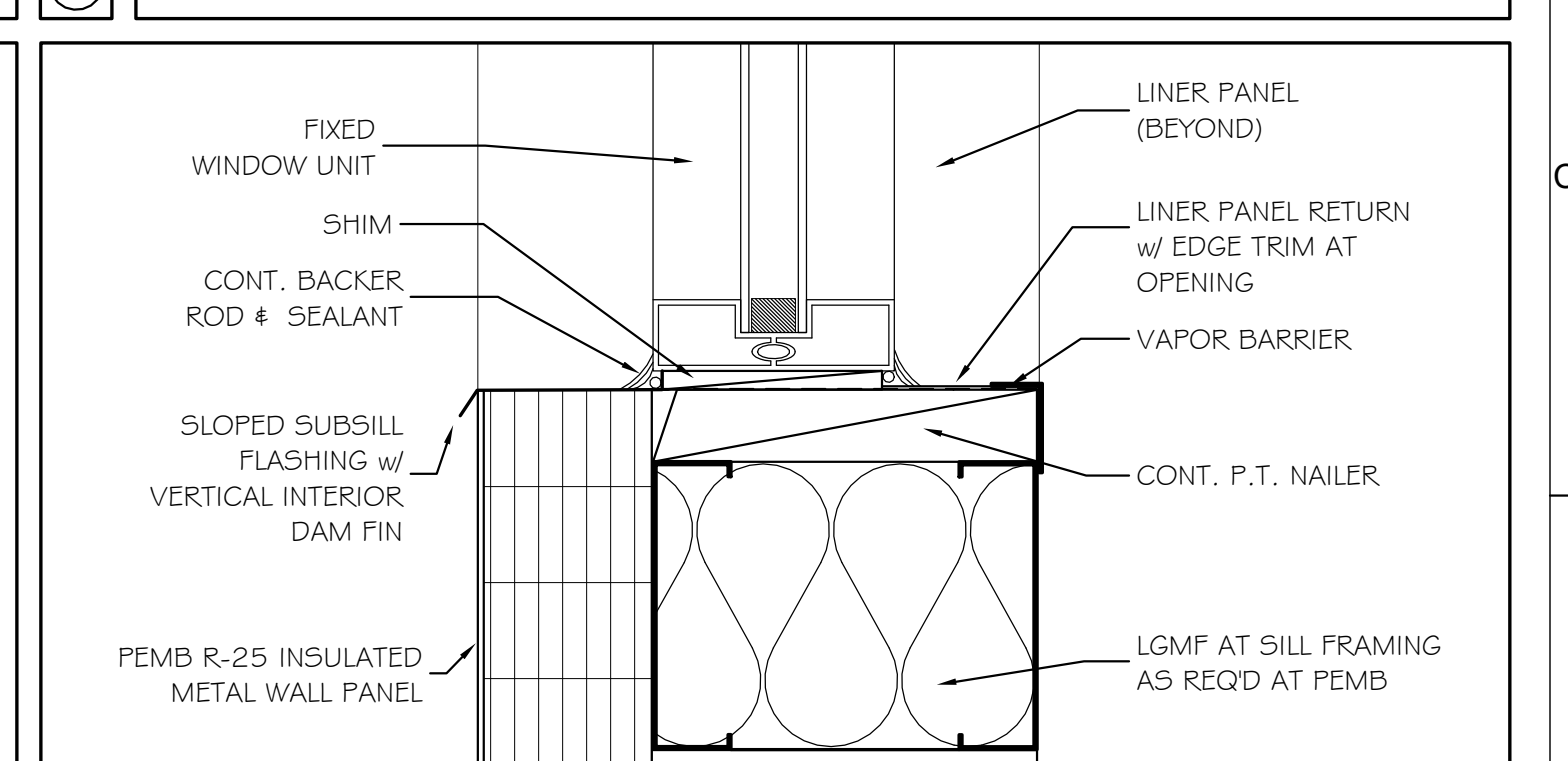
3 KICKER WALL & PIERS DETAIL AT 1/2" = 1'-0"



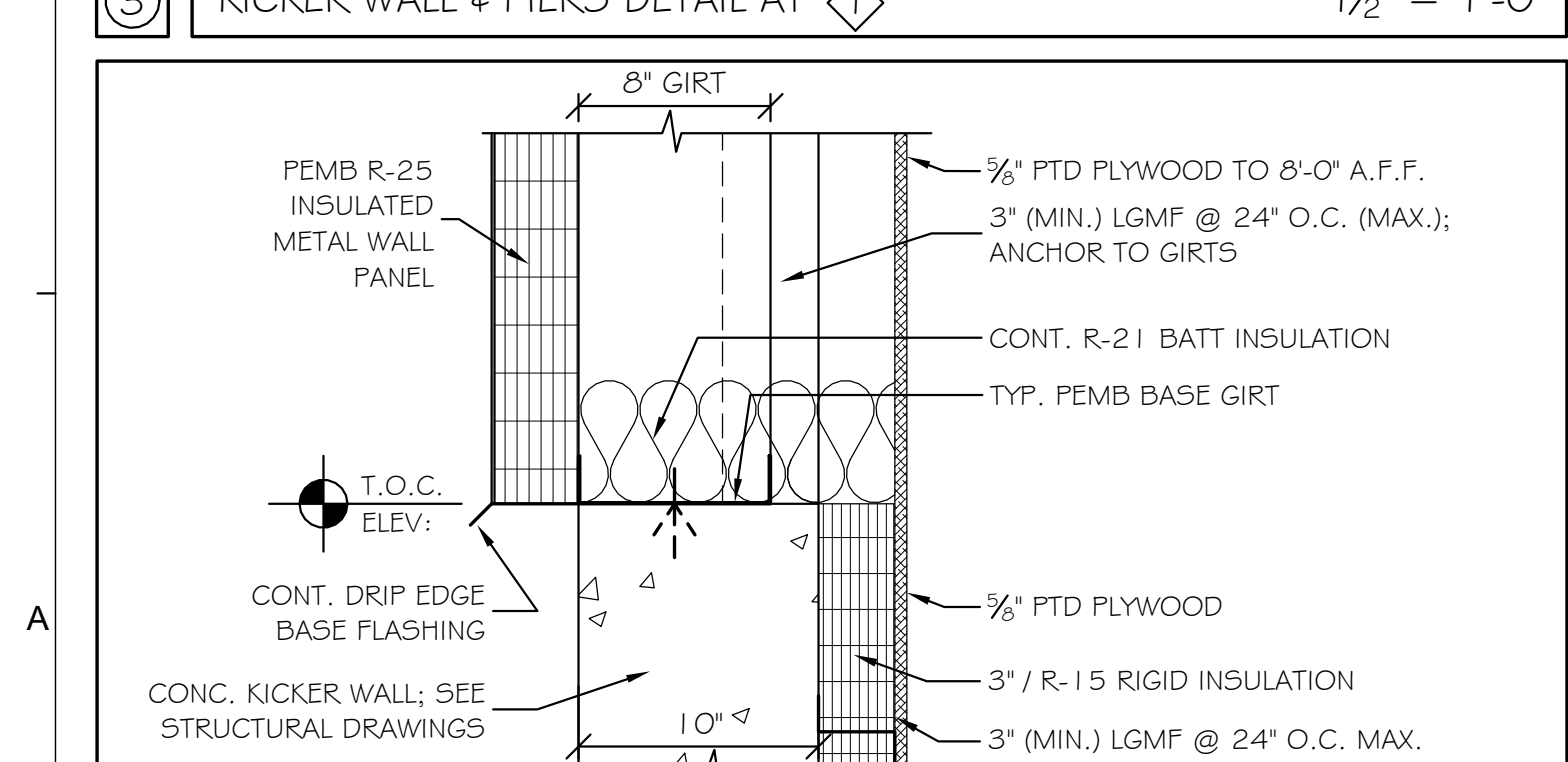
7 SILL AT OVERHEAD SECTIONAL DOOR / PEMB METAL PANEL 1/2" = 1'-0"



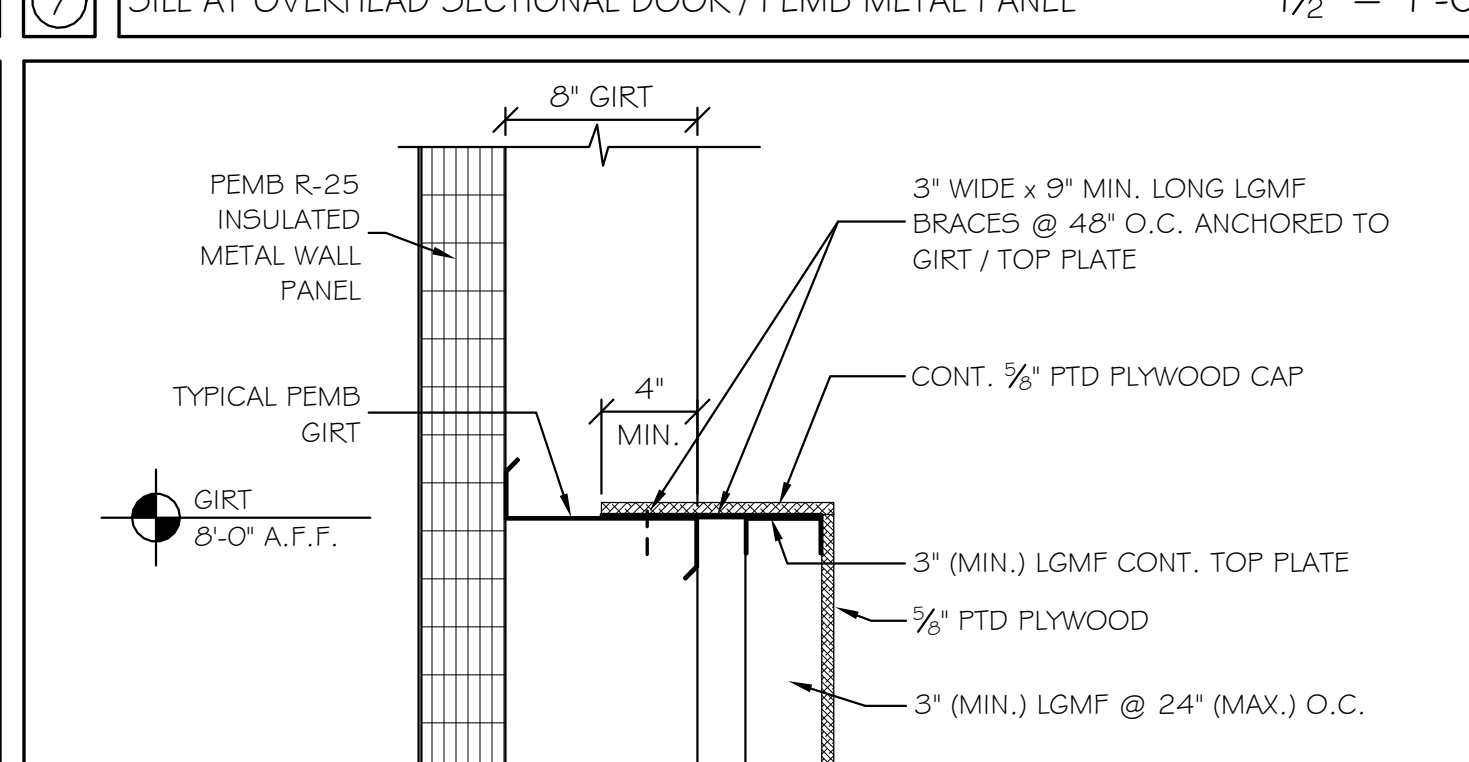
11 EXT. H.M. DOOR SILL DETAIL 3" = 1'-0"



15 WINDOW SILL DETAIL 3" = 1'-0"



4 FURRED KICKER WALL DETAIL 1/2" = 1'-0"



8 TOP OF PLYWOOD DETAIL 1/2" = 1'-0"

12 16

Scale: As indicated

No.	Revision	By	Date

Designed by: MICHAEL F. HAYS, RA

ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: MFH	03/25/24	Checked: MFH	03/25/24
Drawn: MGK	03/25/24		

GRANT HAYS ASSOCIATES, INC.

ARCHITECTURE & INTERIOR DESIGN  
P.O. BOX 6179 FALMOUTH MAINE 04105  
207.871.5900 www.granthays.com

MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

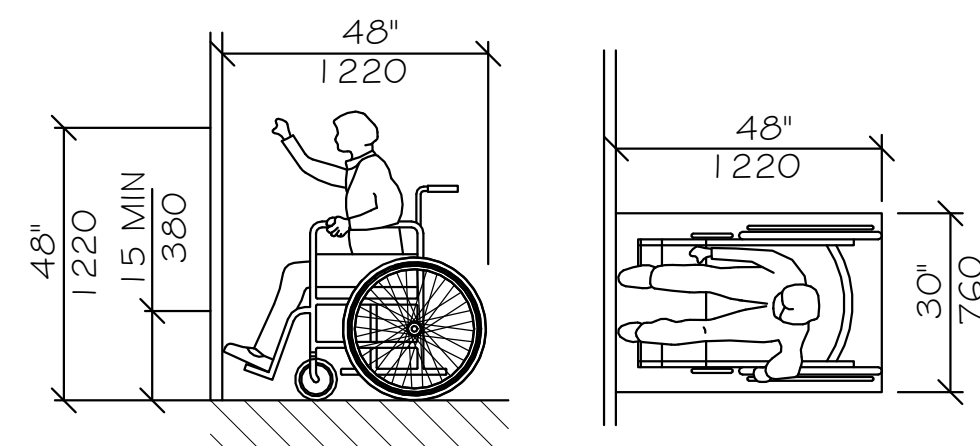
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
DETAILS

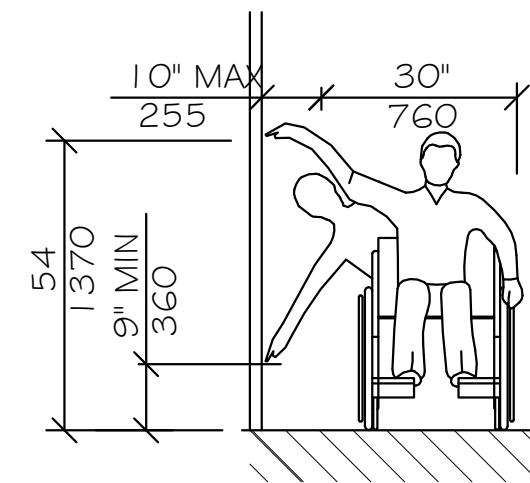
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CONTRACT: 2024.09

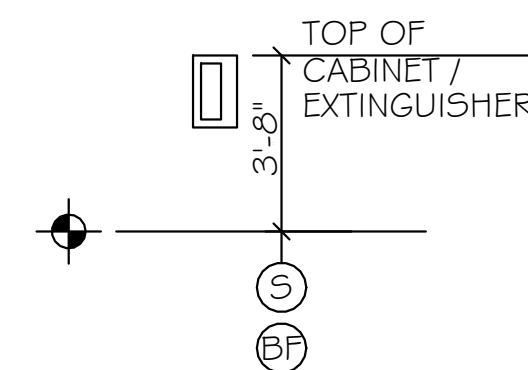
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HIGH FORWARD REACH LIMIT  
NTS



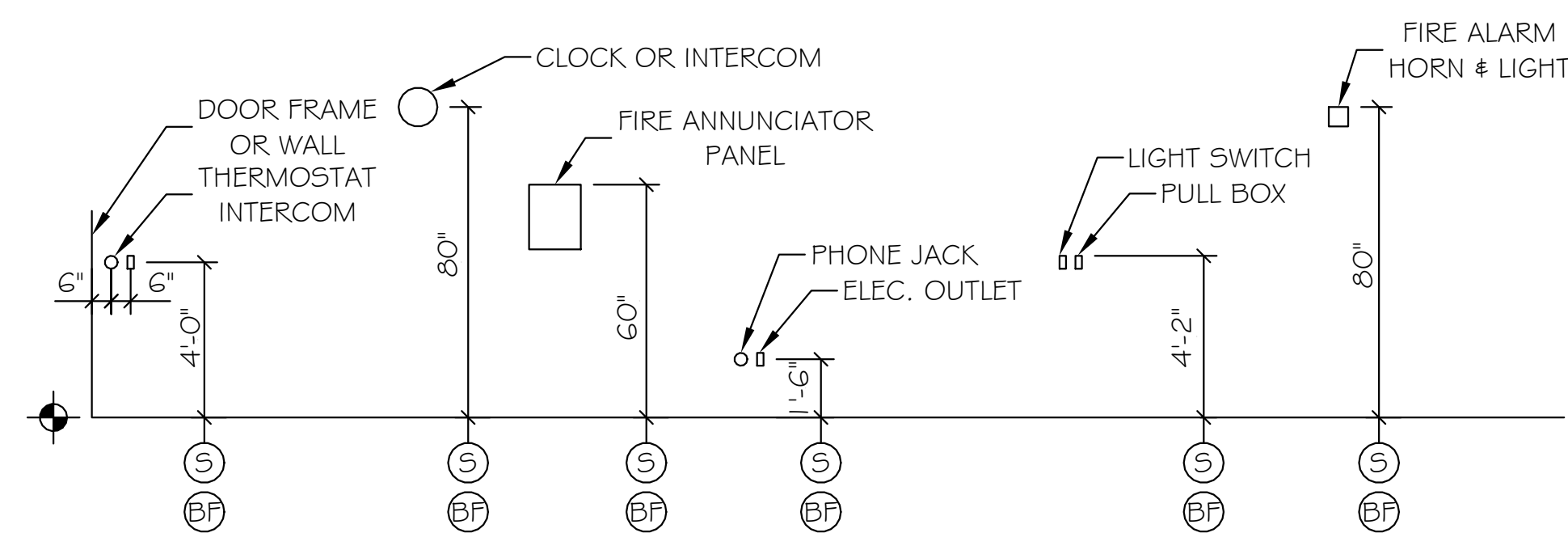
HIGH AND LOW SIDE REACH LIMITS  
NTS



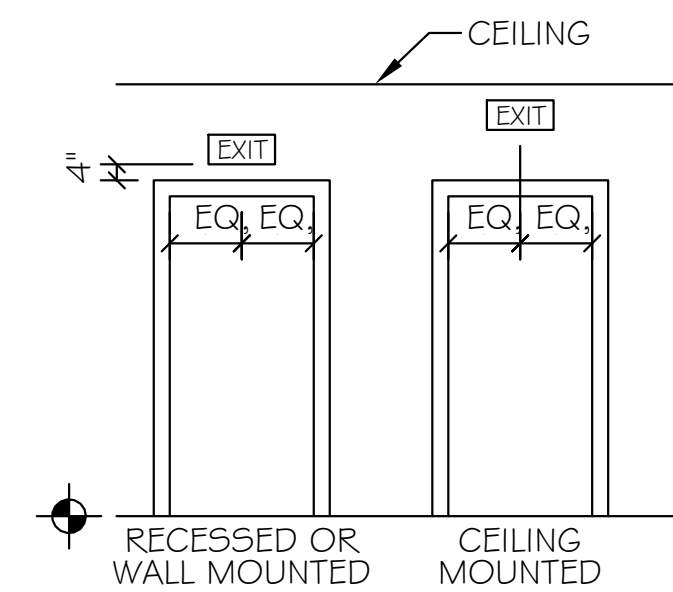
FIRE EXTINGUISHER  
CABINET (FEC)  
NTS

- LEGEND**
- Ⓢ STANDARD MOUNTING HEIGHT
  - Ⓟ BARRIER FREE ADULT MOUNTING HEIGHT
  - ⦿ FINISH FLOOR LINE

**NOTE**  
MOUNT ALL FIXTURES AT STANDARD MOUNTING HEIGHT UNLESS INDICATED ON PLAN BY A Ⓢ SYMBOL. A Ⓟ SYMBOL AT ANY ROOM SHALL INCLUDE ONE OF ANY FIXTURE AND ACCESSORY WITHIN THE ROOM.



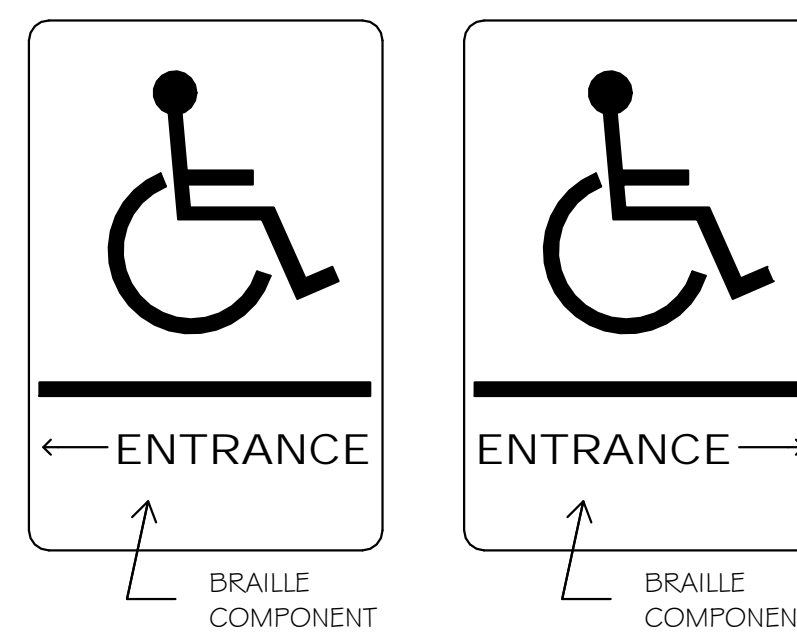
ELECTRICAL & FIRE PROTECTION DEVICES (TYPICAL U.O.N.)  
NTS



EXIT SIGNS  
(TYPICAL UNLESS OTHERWISE NOTED)  
NTS

**ACCESSIBILITY GENERAL NOTES**

1. DOORWAYS SHALL HAVE A MINIMUM CLEAR WIDTH OF 32" WITH THE DOOR OPEN 90 DEGREES. MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
2. ALL DOORS SHALL HAVE LEVER HANDLE HARDWARE, EXCEPT AT SECURED STORAGE ROOMS, MECHANICAL ROOMS, AND ELEVATOR MACHINE ROOMS.
3. ALL CLOSERS SHALL BE 5LB PULL MAXIMUM AT DOORS EQUIPPED WITH LEVER HANDLE HARDWARE.
4. ALL DOORS WITH CLOSERS SHALL HAVE 18" CLEAR DISTANCE FROM THE LATCHSIDE OF THE OPENING TO ANY ADJACENT WALL OR OBSTRUCTION ON THE PULL SIDE OF THE OPENING.
5. ALL DOORS WITH CLOSERS SHALL HAVE 12" CLEAR DISTANCE FROM THE LATCHSIDE OF THE OPENING TO ANY ADJACENT WALL OR OBSTRUCTION ON THE PUSH SIDE OF THE OPENING.
6. ALL SIGNAGE SHALL BE MOUNTED 60" AFF TO BRAILLE COMPONENT AT LATCH-SIDE WALL OF DOORS AND OPENINGS.
7. COMPLY WITH 2010 EDITION OF THE AMERICANS WITH DISABILITIES ACT.



SIGN A



SIGN B

Scale:  
NO SCALE

No.	Revision	By	Date

Designed by:

MICHAEL F. HAYS, RA  
ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: MFH	03/25/24	Checked: MFH	03/25/24
Drawn: MGK	03/25/24		



THE GOLD STAR  
MEMORIAL HIGHWAY

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
ACCESSIBILITY DETAILS & NOTES

AEI PROJ.NO.: 20020 CAD FILE:

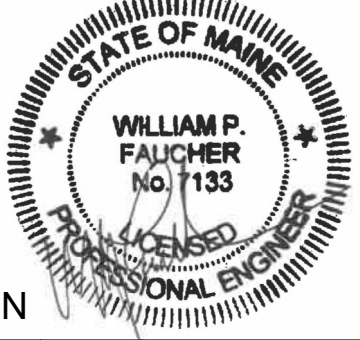
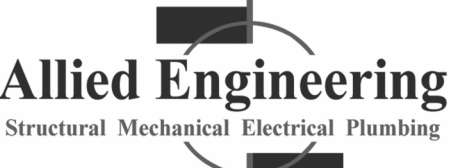

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

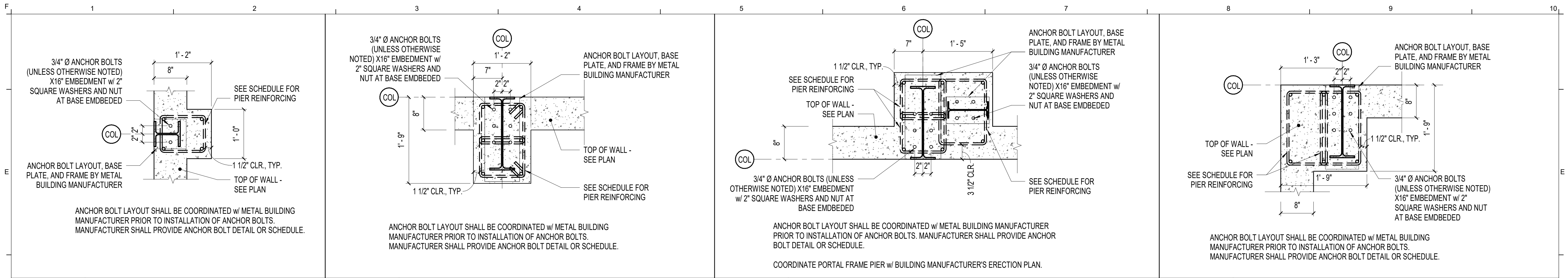
CONTRACT: 2024.09

SHEET NUMBER: A-8

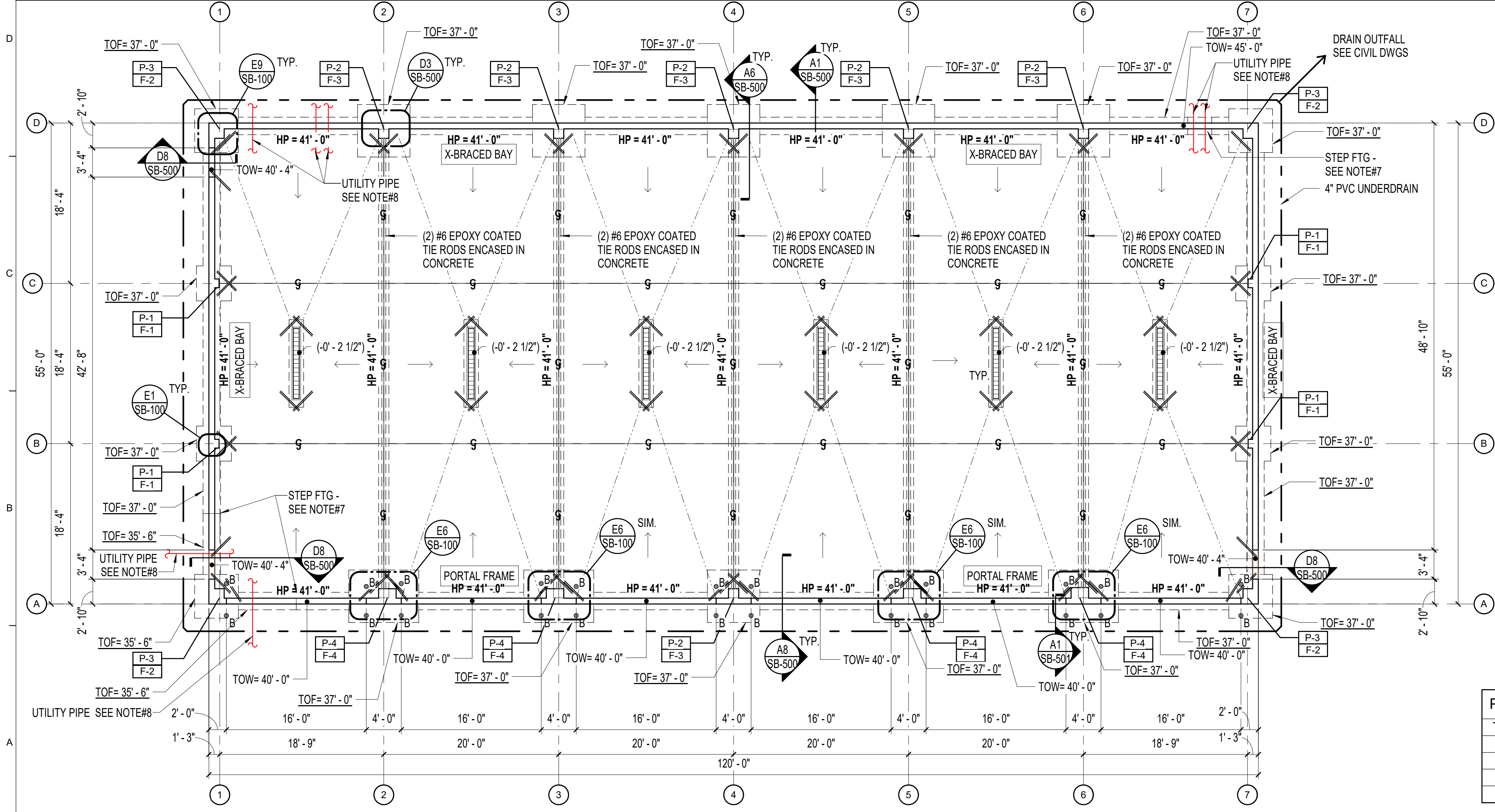
19 OF 32

1	2	3	4	5	6	7	8	9	10
<b>SPECIAL INSPECTIONS</b>		<b>STRUCTURAL NOTES:</b>		<b>CONCRETE NOTES:</b>		<b>GENERAL NOTES:</b>			
1. SPECIAL INSPECTIONS: AN INDEPENDENT INSPECTIONS PROGRAM AND SCHEDULE SHALL BE INCLUDED AND ARRANGED FOR THE OWNER.		<b>MINIMUM LOADING REQUIREMENTS:</b>		1. CONCRETE WORK SHALL COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS"; ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"; AND ACI 315 "ACI DETAIL MANUAL", AND CRSI "MANUAL OF STANDARD PRACTICE".		1. CONTRACTOR SHALL CONFORM TO SAFETY REQUIREMENTS OF THE OWNER, CONTRACT DOCUMENTS, OSHA SAFETY AND HEALTH STANDARDS, AND OTHER LOCAL AUTHORITIES IN CONNECTION WITH THE PERFORMANCE OF THIS PROJECT.			
2. A QUALIFIED PERSON APPROVED BY THE BUILDING OFFICIALS SHALL MAKE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC-2015, AND AS DEFINED. SPECIAL INSPECTOR SHALL OBSERVE WORK FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.		1. DESIGN CODES:		2. CONTRACTOR SHALL PROVIDE TIES AND BRACING WHERE NECESSARY DURING CONSTRUCTION, TO REMAIN IN PLACE UNTIL THE STRUCTURE(S) IS/ARE COMPLETE.		2. REFERENCED STANDARDS OR PUBLICATIONS SHALL PERTAIN TO THE MOST CURRENT DATA, STANDARD OR PUBLICATION, UNLESS NOTED OTHERWISE.			
3. INSPECTION REPORTS SHALL BE FURNISHED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR AND IF NOT CORRECTED, SHALL BE REPORTED TO THE OWNER, BUILDING OFFICIAL, ARCHITECT AND SER.		A. INTERNATIONAL BUILDING CODE – 2015 EDITION		3. CONCRETE SHALL BE:		3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS AND/OR NARRATIVES, WHICH DESCRIBE THE SCOPE OF WORK.			
4. THE FOLLOWING TYPES OF WORK SHALL RECEIVE SPECIAL INSPECTION OVERSITE: STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTIONS, METAL DECK FASTENING, INSTALLATION OF REINFORCING STEEL FOR CONCRETE, ALL CONCRETE PLACEMENT AND STRENGTH TESTING, AND STRUCTURAL FILL PLACEMENT.		B. ASCE/SEI 7-10 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES		A. FOOTINGS, PIERS AND FOUNDATION WALLS: 3,500 PSI AT (28) DAYS. SLUMP SHALL NOT EXCEED 6 INCHES (W/C RANGE: 0.48 – 0.52) – (AIR ENTRAINED).		4. CONTRACTOR SHALL VISIT THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER, TO VERIFY EXISTING CONDITIONS, DIMENSIONS, LOCATION OF EXISTING UTILITIES, ETC. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES, WITHOUT EXCEPTION.			
<b>FIELD TESTING</b>		C. AISC SEISMIC DESIGN MANUAL – 2012		B. INTERIOR SLABS-ON-GRADE: (NO AIR)		5. THE STRUCTURE SHALL BE DESIGNED AS A SELF-SUPPORTING SYSTEM ONCE ALL WORK HAS BEEN COMPLETED. CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCE OF INSTALLATION TO ENSURE SAFETY OF THE BUILDING AND ITS OCCUPANTS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TEMPORARY SHORING, PRECAUTIONS DURING BUILDING OPERATIONS, PROTECTION OF PUBLIC AND WORKERS, REMOVAL OF WASTE MATERIAL, PROTECTION OF ADJACENT PROPERTY, PROTECTION OF HAZARDOUS OPENINGS, SAFETY PRECAUTIONS, AND SANITARY PROVISIONS OF EMPLOYEES AND SUB-CONTRACTORS, AS REQUIRED, FOR THE DURATION OF THE CONTRACT.			
1. BOLTED CONNECTIONS: 100% OF COMPONENTS AND FASTENERS IN SLIP CRITICAL CONNECTIONS, AS IDENTIFIED IN THE PROJECT CONTRACT DOCUMENTS, SHALL BE VISUALLY INSPECTED AND TESTED FOR TIGHTNESS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS, PARTS 8 AND 9.		D. MBMA'S METAL BUILDING SYSTEMS MANUAL		a. MAINTENANCE AREA - 4,000 PSI CONCRETE AT (28) DAYS. SLUMP SHALL NOT EXCEED 6 INCHES (W/C RANGE: 0.47 – 0.50).		6. WORK SHALL BE DONE IN AN ORDERLY AND PROFESSIONAL MANNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK TO BE DONE BY SUB-CONTRACTORS, LOCAL AUTHORITIES, STATE AGENCIES AND/OR UTILITY COMPANIES WHICH MAY HAVE JURISDICTION OVER THIS PROJECT.			
2. CHECK BY CALIBRATION TORQUE WRENCH: 25% OF BOLTS IN EACH NON-SC SHEAR CONNECTION, BUT NOT LESS THAN (2) PER CONNECTION.		2. DESIGN PARAMETERS:		C. EXTERIOR SLABS ON GRADE SIDEWALKS, AND STAIRS SHALL BE 4000 PSI AT (28) DAYS. SLUMP SHALL NOT EXCEED 6-INCHES (W/C = 0.45 – 0.47) – (AIR ENTRAINED).		7. UTILITY EXTENSIONS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES.			
3. FIELD-WELDED CONNECTIONS: PERFORM TESTING IN ACCORDANCE WITH ANSII/AWS D1.1, CHAPTER 6.		A. ROOF SNOW LOADS: (EXCEPT AT DRIFTING SNOW LOCATIONS AND THOSE LISTED BELOW. PEMB EOR TO DETERMINE WHERE DRIFTING SNOW MAY APPLY.)		4. CONCRETE MATERIALS:		8. CONTRACTOR SHALL REVIEW AND SUBMIT COMPLETE SHOP DRAWINGS FOR ALL SPECIFIED PARTS OF THE WORK. NO PORTION OF THE WORK COVERED BY THESE SHOP DRAWINGS SHALL COMMENCE UNTIL RETURNED APPROVED SHOPS ARE RECEIVED BY CONTRACTOR. SHOP SUBMITTAL PACKAGES SHALL INCLUDE, BUT NOT BE LIMITED TO:			
4. CONDUCT TESTING OF 10% OF WELDS ON STRUCTURAL STEEL BY DYE PENETRATION OR MAGNETIC PARTICLE TESTING.		a. GROUND SNOW LOAD:		A. PORTLAND CEMENT: ASTM C150, TYPE I OR II. USE ONE TYPE THROUGHOUT PROJECT.		A. SITE: SHORING AND CONSTRUCTION METHODS/SEQUENCING, WHERE APPLICABLE.			
5. CONDUCT TESTING OF 100% OF GROOVE, PLUG, OR SLOT WELDS IN STRUCTURAL STEEL BY ULTRASONIC TESTING OR OTHER NONDESTRUCTIVE TESTING, APPROVED BY ENGINEER OF RECORD.		1. IMPORTANCE FACTOR:		B. NORMAL WEIGHT AGGREGATES: ASTM C33. PROVIDE FROM SINGLE SOURCE FOR ENTIRE PROJECT. NO AGGREGATE CONTAINING SOLUBLE SALTS, IRON SULFIDES, PYRITE, MARCASITE, OR OCHRE WHICH CAN CAUSE STAINS ON EXPOSED CONCRETE SURFACES.		B. CONCRETE: MIX DESIGNS, ADMIXTURES, MIX HISTORIES; REBAR ORIGIN STRENGTH/GRADE; REBAR PLACEMENT DRAWINGS.			
6. RADIOGRAPHICALLY TEST 5% OF ALL FULL-PENETRATION WELDS.		2. COLD ROOF SLOPE FACTOR:		C. LIGHTWEIGHT AGGREGATES: ASTM C930		C. COLD-FORMED METAL FRAMING: COLD-FORMED METAL CUT SHEETS, CONNECTIONS, PLACEMENT DRAWINGS ALONG WITH HEADER/JAMB AT OPENINGS AND FRAMING ELEMENT CALCULATIONS SIGNED BY A PE, REGISTERED IN THE PROJECT STATE.			
7. THE STRUCTURAL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED.		3. THERMAL FACTOR:		D. WATER: POTABLE		D. PRE-ENGINEERED BUILDING: PRE-ENGINEERED BUILDING CALCULATIONS AND DRAWINGS, STEEL FRAMING COMPONENTS AND CONNECTIONS, ALL SEALED BY A PE REGISTERED IN THE PROJECT STATE.			
<b>ROOF TIE-OFF ANCHOR NOTES:</b>		4. EXPOSURE FACTOR:		E. AIR-ENTRAINING ADMIXTURE: ASTM C260		E. STRUCTURAL STEEL: MISCELLANEOUS STEEL FRAMING COMPONENT SHOP DRAWINGS, ALONG WITH APPLICABLE FRAMING COMPONENT AND CONNECTION CALCULATIONS, ALL SEALED BY A PE REGISTERED IN THE PROJECT STATE.			
1. PEMB DESIGN SHALL INCLUDE DESIGN CALCULATIONS AND ALL SUPPLEMENTAL STRUCTURAL FRAMING INTERGRAL WITH THE PEMB DESIGN AT THESE LOCATIONS. SYSTEM SHALL BE DESIGN FOR A 5,000 # HORIZONTAL LOADING APPLIED IN ANY DIRECTION AT THE TOP OF THE TIE-OFF ANCHORAGE SYSTEM.		5. TERRAIN CATEGORY:		F. HIGH RANGE WATER REDUCING ADMIXTURES (SUPER PLASTICIZER): ASTM C494, TYPE F OR G CONTAINING NOT MORE THAN 1% CHLORIDE IONS.		9. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING ITEMS DAMAGED BY NEW CONSTRUCTION, AND FOR ANY INCIDENTAL REPAIRS OF EXISTING FINISHED SURFACES DISTURBED BY NEW CONSTRUCTION; SUCH REPAIRS SHALL MATCH EXISTING TO THE OWNER'S SATISFACTION.			
2. PROVIDE GUARDIAN FALL PROTECTION CB-18 ROOF ANCHORS (OR EQUAL) DIRECT CONNECTED TO PRE-ENGINEERED BUILDING ROOF.		b. FLAT ROOF SNOW LOAD:		G. NORMAL RANGE WATER REDUCING ADMIXTURES: ASTM C494 TYPE A CONTAINING NO CALCIUM CHLORIDE.		10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ITEMS/MATERIALS TO REMAIN THE PROPERTY OF THE OWNER WITH THE OWNER'S REPRESENTATIVE.			
<b>FOUNDATION NOTES:</b>		B. ROOF DEAD LOAD:		H. ACCELERATING ADMIXTURES: ASTM C494, TYPE C OR E.		11. SPECIAL INSPECTIONS, AS REQUIRED BY IBC 2015 SECTION 1704, SHALL BE PERFORMED BY AN INSPECTION AGENCY CONTRACTED BY THE OWNER FOR THE FOLLOWING ELEMENTS:			
1. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY S.W. COLE ENGINEERING, INC., DATED MAY 27, 2020. NET ALLOWABLE BEARING USED FOR DESIGN IS 2.0 KSF PER REPORT REFERENCED ABOVE. BEARING PRESSURE SHALL BE VERIFIED BY THE OWNER'S TESTING AGENCY PRIOR TO PLACING FOOTING CONCRETE.		C. ROOF LIVE LOAD:		5. PROVIDE METAL OR CONCRETE SLEEVES WHERE PIPES PASS THROUGH CONCRETE WALLS OR SLABS.		1. CONCRETE/FOUNDATIONS: REBAR PLACEMENTS FOR CONFORMANCE WITH CONTRACT DOCUMENTS, CONCRETE DELIVERY TICKET MIX CONFIRMATION, VOLUME TEST SAMPLES FOR CONCRETE PLACEMENTS WITH 7, 14, AND 28 DAY BREAK TEST RESULTS.			
2. EXTERIOR STRIP AND SPREAD FOOTINGS SHALL HAVE MINIMUM 4'-6" GRADE COVER TO BOTTOM OF FOOTING ELEVATIONS.		a. STANDARD ROOF LIVE LOAD:		6. REINFORCING BARS IN WALLS AND FOOTINGS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS, AND SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI 315-LATEST EDITION.		2. SOILS: COMPACTION TESTING AND GRADATION CONFIRMATION			
3. 10 MIL VAPOR BARRIER REQUIREMENTS BENEATH SLABS THROUGHOUT.		D. FLOOR LIVE LOADS:		7. REINFORCING BARS FOR INTERIOR SLABS-ON-GRADE SHALL CONFORM TO ASTM A775 GRADE 60 EPOXY COATED BARS, AND SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI 315-LATEST EDITION. DAMAGE IN SURFACE COATING SHALL BE LIMITED TO LESS THAN 2 PERCENT DAMAGED COATING IN EACH 12-INCH BAR LENGTH		3. STEEL INCLUDING PEMB BUILDING FRAMING: STEEL PLACEMENTS FOR CONFORMANCE WITH CONTRACT DOCUMENTS, 100% OF BOLTED CONNECTIONS TESTING, 10% OF FIELD WELDED CONNECTIONS.			
4. UNDERDRAINS SHALL BE PLACED AS SHOWN ON THE SITE DRAWINGS. UNDERDRAINS SHALL BE INSTALLED TO POSITIVELY DRAIN TO A SUITABLE DISCHARGE POINT AWAY FROM THE STRUCTURE. REFER TO SITE DRAWINGS FOR ADDITIONAL INFORMATION.		a. OFFICE BUILDINGS		8. COMPLETE SHOP DRAWINGS AND SCHEDULES OF ALL REINFORCING STEEL SHALL BE PREPARED BY CONTRACTOR AND SUBMITTED TO THE OWNER, FOR REVIEW BY EOR PRIOR TO COMMENCEMENT OF THAT PORTION OF THE WORK. ALL ACCESSORIES MUST BE SHOWN ON THE SHOP DRAWINGS.					
5. EXCAVATIONS FOR BUILDING FOUNDATIONS AND STRUCTURES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE. DO NOT UNDERMINE EXISTING ADJACENT FOUNDATIONS.		1. VEHICLE MAINTENANCE FLOOR – DESIGN FOR TRUCKS AND BUSES PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS; HOWEVER, PROVISIONS FOR FATIGUE AND DYNAMIC LOAD ALLOWANCE HAVE NOT BEEN APPLIED.		9. WELDING OF REINFORCEMENT IS NOT PERMITTED.					
6. IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION/BASEMENT WALL. IF THE CONTRACTOR DEEMS IT NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8'-0", THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND, AT HIS OWN EXPENSE, PROVIDE ADEQUATE SUPPORTS OR WALL BRACES TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.		E. WIND:		10. CONSTRUCTION JOINTS FOR SLABS SHALL BE KEY JOINTED AT MID-SPAN WITH REINFORCING DISCONTINUOUS AT JOINT AND FILLED WITH AN APPROPRIATE SEALANT FOR THE INTENDED USE.					
7. CONCRETE SHALL NOT BE PLACED ON FROZEN GROUND OR IN WATER.		a. FACTORS:		11. CONTRACTOR WILL CHECK WITH EACH TRADE TO ASSURE CORRECT LOCATION, SIZE, LINE AND ELEVATION OF SLEEVES, BOND-OUTS, ETC. REQUIRED IN CONCRETE FLOORS AND WALLS.					
		1. ASCE-7-10		12. CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR DRAIN SETTING AND EXTENTS OF AREA SLOPE TO DRAIN DEVELOPMENT. VERIFY WITH ARCHITECTURAL AND PLUMBING PLANS TO ENSURE COMPLETE AREA DRAINAGE PLAN MATCHES THE DESIGN INTENT.					
		2. EXPOSURE CATEGORY:		13. MECHANICAL EQUIPMENT RESTING ON THE CONCRETE FLOOR SLAB SHALL HAVE A 4-INCH HIGH CONCRETE PAD UNDERNEATH, EXTENDING A MINIMUM OF 6-INCHES BEYOND UNIT EDGE (EACH DIRECTION), REINFORCED WITH #3 BARS AT 18-INCHES ON-CENTER, EACH WAY.					
		3. BUILDING HEIGHT:		14. ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED. CONCRETE SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM.					
		F. SEISMIC:		15. PROVIDE IN SLABS-ON-GRADE: (2) #4 EPOXY COATED BARS, 4'-0" LONG, AT EACH REENRANT CORNER AND BOTH SIDES OF EACH DOOR OPENING.					
		a. DESIGN DATA:		16. COORDINATE SLAB DEPRESSIONS AND ALL INTERIOR FLOOR SLOPES TO DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.					
		1. BUILDING RISK CATEGORY:		17. SLAB THICKNESSES (ON-GRADE) INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR SUBGRADE FLUCTUATIONS IN ORDER TO OBTAIN SPECIFIED SLAB ELEVATIONS AND SLOPES TO FLOOR DRAINS/TRENCHES. FLATNESS AND LEVELNESS INDICATED IN THE SPECIFICATION.					
		2. MAPPED RESPONSE SPECTRAL ACC. (0.2 SEC.):		18. ANCHOR BOLTS SHALL CONFORM TO ASTM A1554 – GRADE 36 UNLESS NOTED OTHERWISE ON PLAN.					
		3. MAPPED RESPONSE SPECTRAL ACC. (1.0 SEC.):		19. FOUNDATION WALL CONTROL JOINTS SHALL BE PLACED AT A MAXIMUM OF 60'-0" ON CENTER (EXTERIOR WALLS) AND 30'-0" ON CENTER (INTERIOR WALLS). CONTRACTOR SHALL PROVIDE A PROPOSED LAYOUT OF FOUNDATION WALL CONTROL JOINT LOCATIONS THAT WILL FIT BEST WITH THEIR WALL FORMWORK FOR REVIEW AND ACCEPTANCE BY EOR.					
		4. SOIL SITE CLASSIFICATION:							
		5. DESIGN RESPONSE SPECTRAL ACC. @ 5% DAMPED DESIGN:							
		6. SEISMIC DESIGN CATEGORY:							
		7. BASIC SEISMIC FORCE-RESISTING SYSTEM:							
		8. SEISMIC BASE SHEAR:							
		9. SEISMIC RESPONSE COEFFICIENT							
		10. ANALYSIS PROCEDURE:							
		b. DESIGN COEFFICIENTS AND FACTORS FOR SEISMIC FORCE RESISTING SYSTEMS							
		1. STEEL SYSTEMS NOTE SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE							
		A. RESPONSE MODIFICATION							
		B. SYSTEM OVERSTRENGTH FACTOR							
		C. DEFLECTION AMPLIFICATION FACTOR							

Scale:				Designed by:				  <p>160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266 Web: www.allied-eng.com</p>  <p><b>THE GOLD STAR MEMORIAL HIGHWAY</b></p>				<p align="center"><b>CONTRACT 2024.09 YORK VEHICLE STORAGE GARAGE STRUCTURAL - GENERAL INFORMATION</b></p>																															
<table border="1"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				No.	Revision	By	Date																					<p>ISSUED FOR BID - NOT FOR CONSTRUCTION</p> <table border="1"> <thead> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>WPF</td> <td>03/25/24</td> <td>WPF</td> <td>03/25/24</td> </tr> <tr> <td>CMW</td> <td>03/25/24</td> <td> </td> <td> </td> </tr> </tbody> </table>				By	Date	By	Date	WPF	03/25/24	WPF	03/25/24	CMW	03/25/24		
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E1	PIER DETAIL ~ END WALL COLUMNS	E3	PIER DETAIL ~ MAIN FRAME COLUMNS	E6	PIER DETAIL ~ PORTAL FRAME	E9	PIER DETAIL ~ CORNER COLUMNS
1" = 1'-0"		1" = 1'-0"		1" = 1'-0"		1" = 1'-0"	



- FOUNDATION PLAN NOTES:**
- FINISH SLAB ELEVATION = 41.00' UNLESS NOTED OTHERWISE.
  - CONCRETE SLAB-ON-GRADE SHALL BE 6" MINIMUM THICKNESS REINFORCED WITH #5 EPOXY COATED BARS AT 12-INCHES ON-CENTER EACH WAY UNLESS NOTED OTHERWISE. SLOPE SLAB TOWARD DRAINS INDICATED ON PLAN, MAINTAIN SLAB DEPTH. REINFORCING FOR 6" INTERIOR SLAB SHALL BE SET ON BOLSTER 2" ABOVE VAPOR BARRIER.
  - TOP OF WALL ELEVATION = 45'-0" UNLESS NOTED OTHERWISE.
  - TOP OF PIER ELEVATION = 45'-0" UNLESS NOTED OTHERWISE.
  - HP = HIGH POINT NOTED AS ELEVATION (41'-0") ON PLAN IS EQUAL TO FINISHED SLAB ELEVATION. DRAIN AND SLOPE LINE ELEVATIONS NOTED (+/- X'-X") FROM HIGH POINT.
  - G.C. SHALL COORDINATE TOP OF FOOTING ELEVATIONS NOTED ON PLAN FOR EXTERIOR WALL STRIP FOOTINGS AND FOR FOOTINGS BELOW PIERS ALONG EXTERIOR WALL.
    - TOP OF FOOTINGS SHALL BE SET A MINIMUM OF 3'-6" BELOW FINISHED GRADE PER GEOTECHNICAL REPORT REFERENCED IN "FOUNDATION, NOTE#1" ON SHEET S-000
    - TOP OF FOOTING ELEVATIONS NOTED WERE BASED ON SHEET C-102 DATED 5/7/21, BY GORRILL PALMER.
  - STEP FOOTING AS REQUIRED - G.C. SHALL COORDINATE LOCATION AND QUANTITY OF STEPS
  - G.C. SHALL COORDINATE UTILITY ENTRANCES WITH CIVIL / PLUMBING / ELECTRICAL DRAWINGS FOR OCCURANCES, LOCATIONS, SIZES AND ELEVATIONS. LOCATIONS NOTED ON THIS DRAWING ARE APPROXIMATE. REFER TO DETAIL A3/SB-501, STEP FOOTINGS AS REQUIRED.
  - DIMENSIONS NOTED TO DOOR OPENINGS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
- F-# INDICATES FOOTING TYPE - SEE SB-100 FOR SCHEDULE.  
 P-# INDICATES CONCRETE PIER TYPE - SEE SB-100 FOR SCHEDULE  
 B INDICATES BOLLARD (PROVIDE AT EACH OVERHEAD DOOR AS SHOWN ON PLAN) SET BOLLARD ON A MIN. 2'-0" SQUARE x 12" THICK FOOTING - REFER TO TYPICAL BOLLARD DETAIL A1/SB-501  
 S INDICATES CONTROL JOINT IN SLAB - SEE DETAIL D6/SB-500  
 TD INDICATES TRENCH DRAIN - COORDINATE W/PLUMBING DRAWINGS  
 // INDICATES RE-ENTRANT BAR PER CONCRETE NOTE#15 SHEET S-000
- DIMENSIONAL LAYOUT / FOUNDATIONS / PIER SIZES ARE PRELIMINARY. FINAL DIMENSIONS / FOUNDATIONS / PIER SIZES SHALL BE DETERMINED UPON RECEIPT AND APPROVAL OF FINAL PRE-ENGINEERED METAL BUILDING (PEMB) SHOP DRAWING SUBMITTAL PACKAGE INCLUDING MEMBER SIZES AND REACTIONS.

PIER SCHEDULE (GRADE 60 DEFORMED BARS)		FOOTING SCHEDULE (GRADE 60 DEFORMED BARS)	
TYPE	SIZE	MARK	SIZE
P-1	12" x 14"	F-1	48" x 48" x 12"
P-2	14" x 21"	F-2	60" x 60" x 13"
P-3	21" x 21"	F-3	72" x 72" x 16"
P-4	21" x 24"	F-4	96" x 72" x 16"

A1	STRUCTURAL ~ FOUNDATION PLAN
1/8" = 1'-0"	

Scale: As indicated

No.	Revision	By	Date

Designed by:  
 WILLIAM P. FAUCHER, P.E.  
 ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed:	WPF 03/25/24	Checked:	WPF 03/25/24
Drawn:	CMW 03/25/24		

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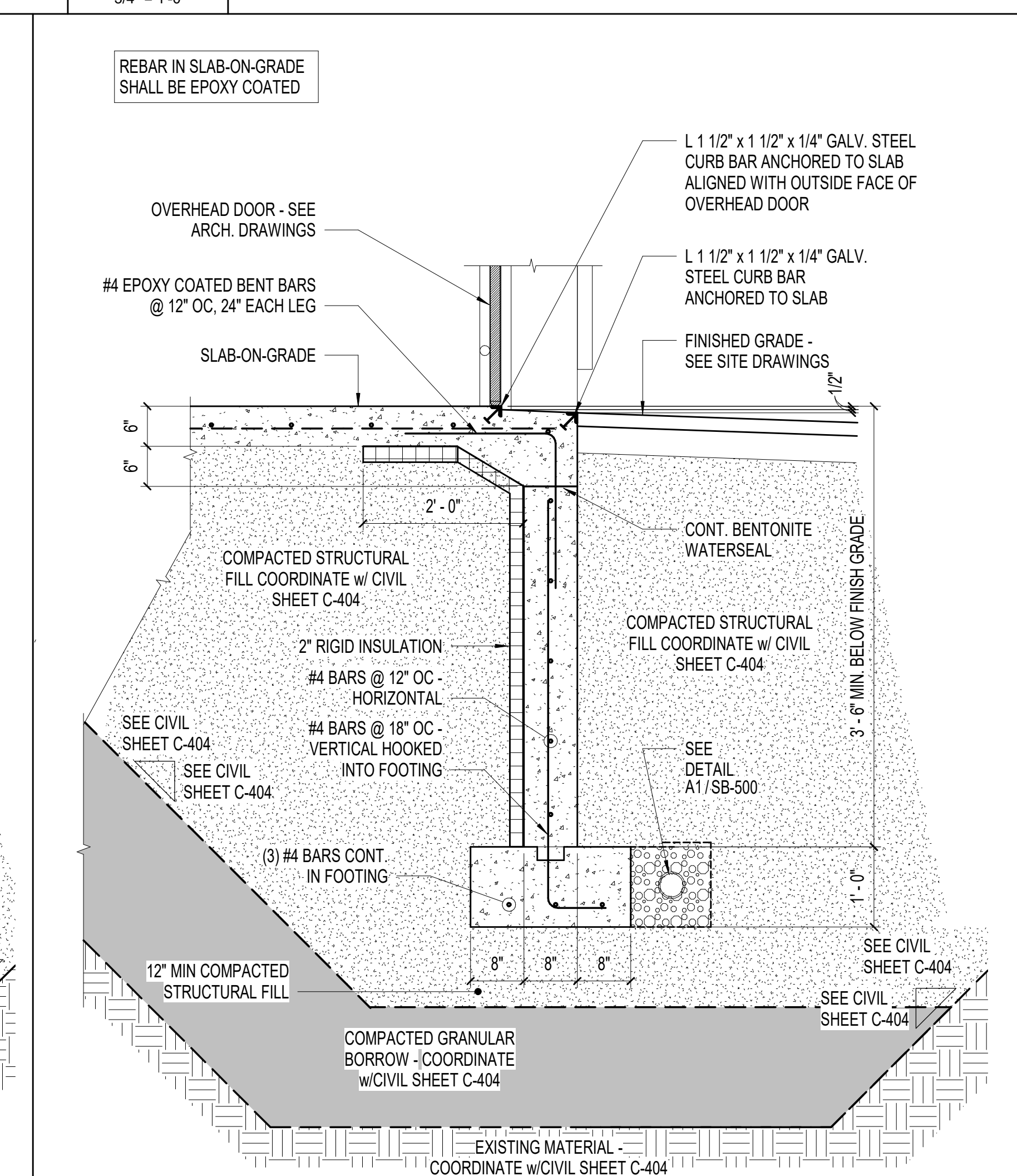
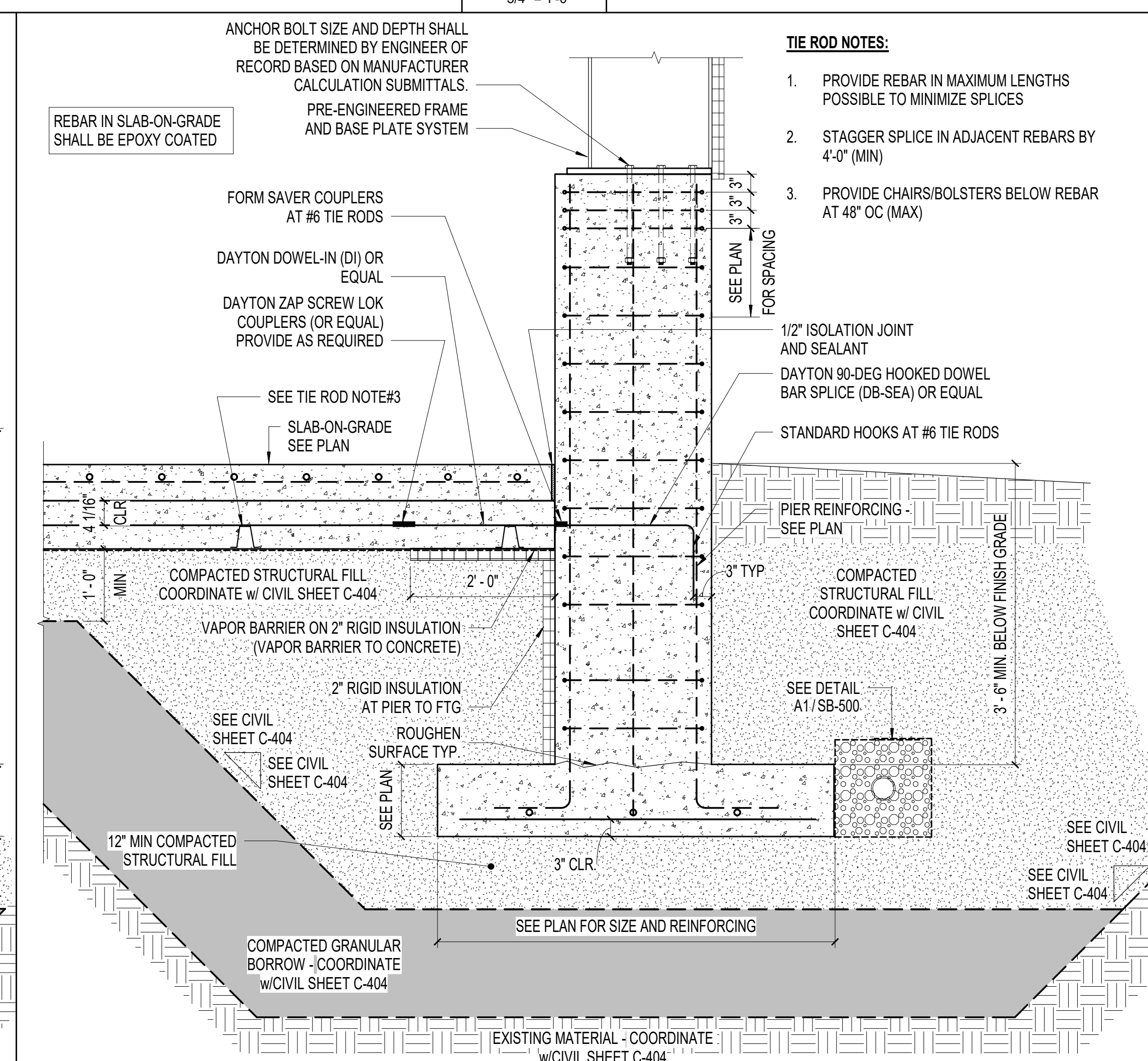
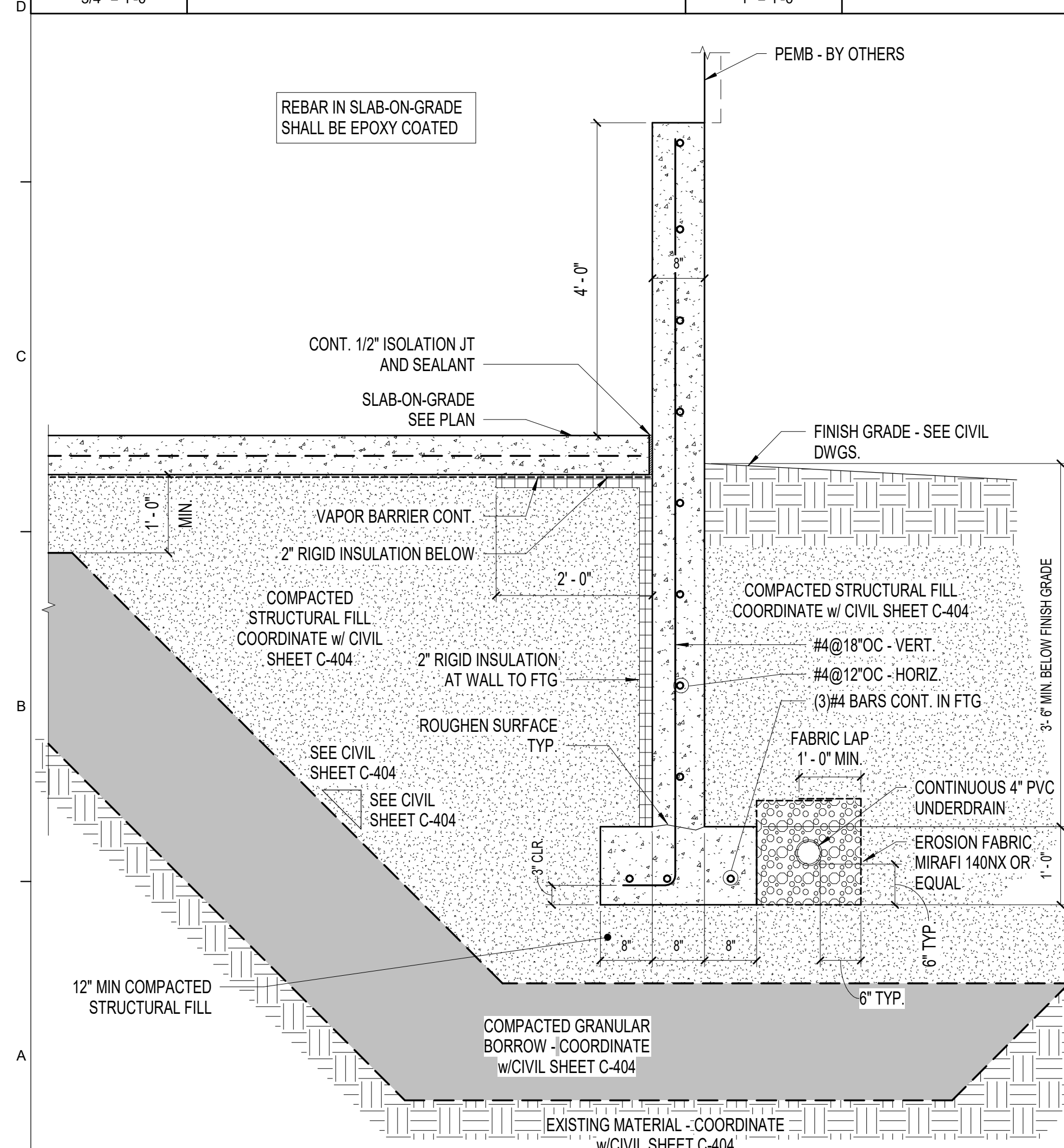
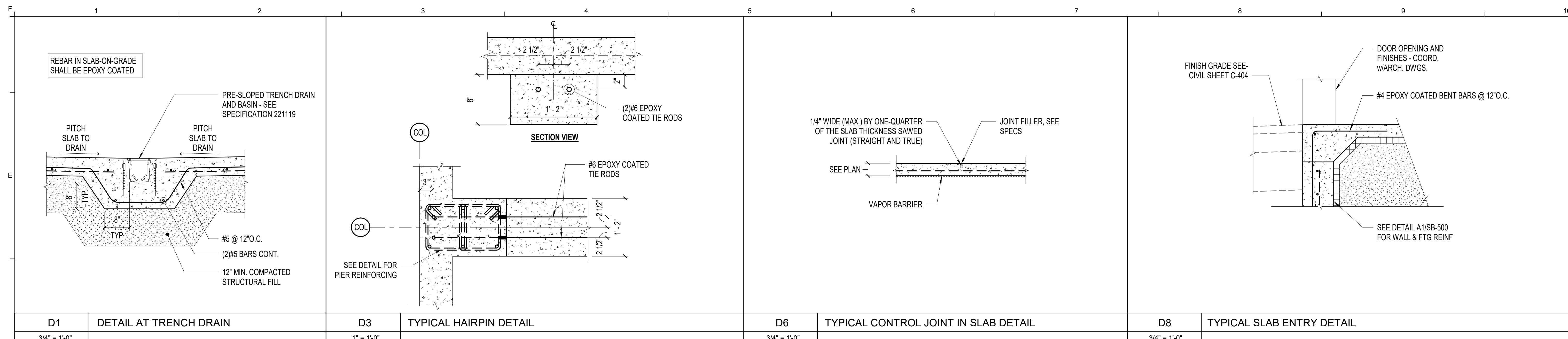
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**THE GOLD STAR MEMORIAL HIGHWAY**

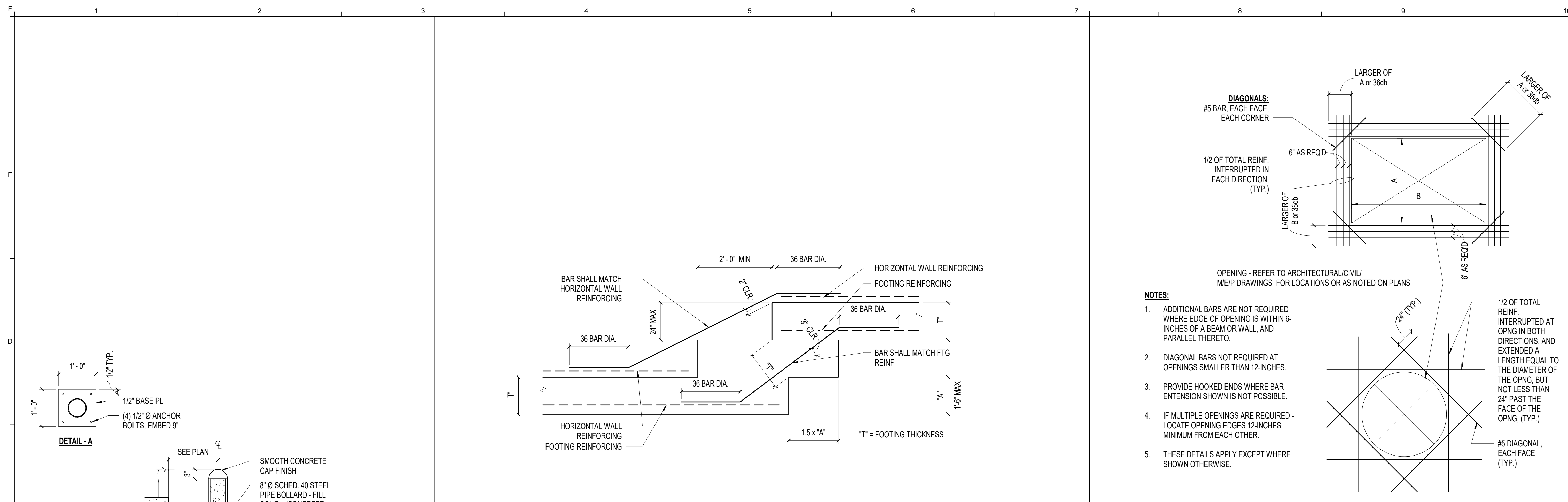
MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**STRUCTURAL - FOUNDATION PLAN**

SHEET NUMBER: SB-100  
 CONTRACT: 2024.09  
 21 OF 32

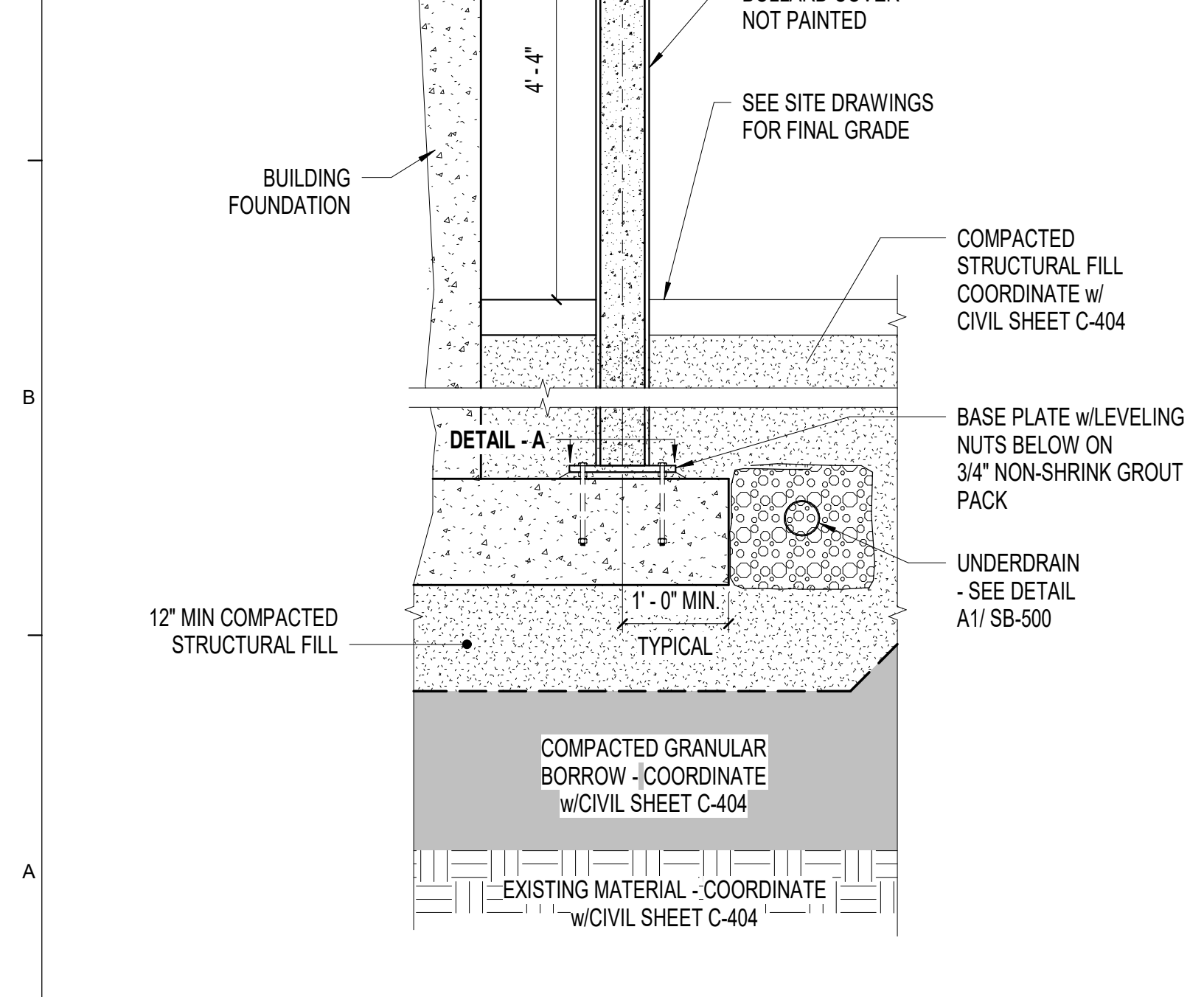


Scale: As indicated		Designed by: WILLIAM P. FAUCHER, P.E.								<b>CONTRACT 2024.09</b> <b>YORK VEHICLE STORAGE GARAGE</b> <b>STRUCTURAL - FOUNDATION DETAILS - 1</b>	
No.	Revision	By	Date	By	Date	By	Date	<b>THE GOLD STAR MEMORIAL HIGHWAY</b>		SHEET NUMBER: SB-500	
ISSUED FOR BID - NOT FOR CONSTRUCTION				DESIGNED: WPF 03/25/24 CHECKED: WPF 03/25/24 DRAWN: CMW 03/25/24				AEI PROJ. NO.: 20020 CAD FILE: 20020S_R20.rvt MTA PROJECT MANAGER: Brian A. Taddeo, P.E.		CONTRACT: 2024.09 22 OF 32	

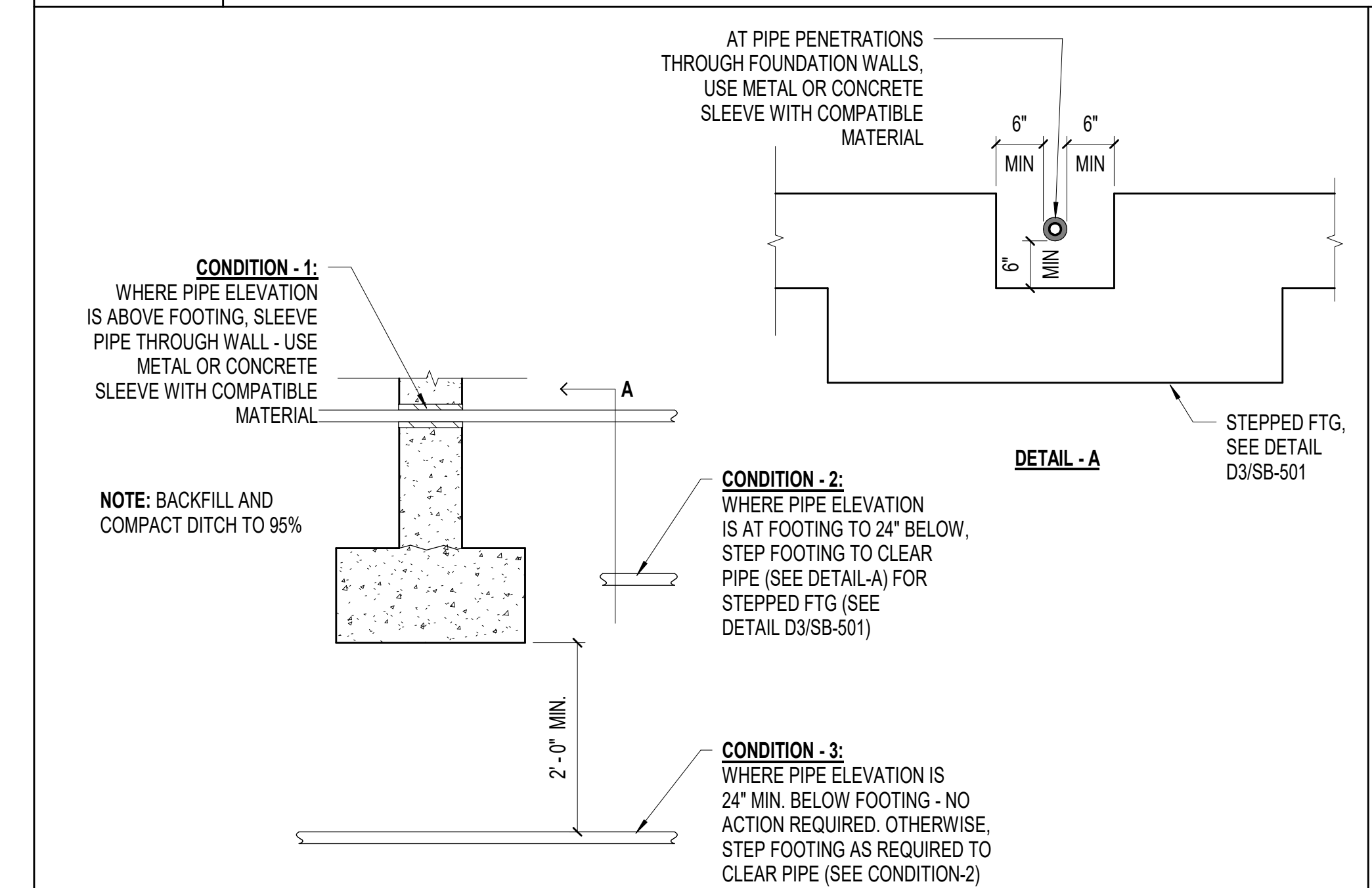


- NOTES:**
- ADDITIONAL BARS ARE NOT REQUIRED WHERE EDGE OF OPENING IS WITHIN 6-INCHES OF A BEAM OR WALL, AND PARALLEL THERETO.
  - DIAGONAL BARS NOT REQUIRED AT OPENINGS SMALLER THAN 12-INCHES.
  - PROVIDE HOOKED ENDS WHERE BAR EXTENSION SHOWN IS NOT POSSIBLE.
  - IF MULTIPLE OPENINGS ARE REQUIRED - LOCATE OPENING EDGES 12-INCHES MINIMUM FROM EACH OTHER.
  - THESE DETAILS APPLY EXCEPT WHERE SHOWN OTHERWISE.

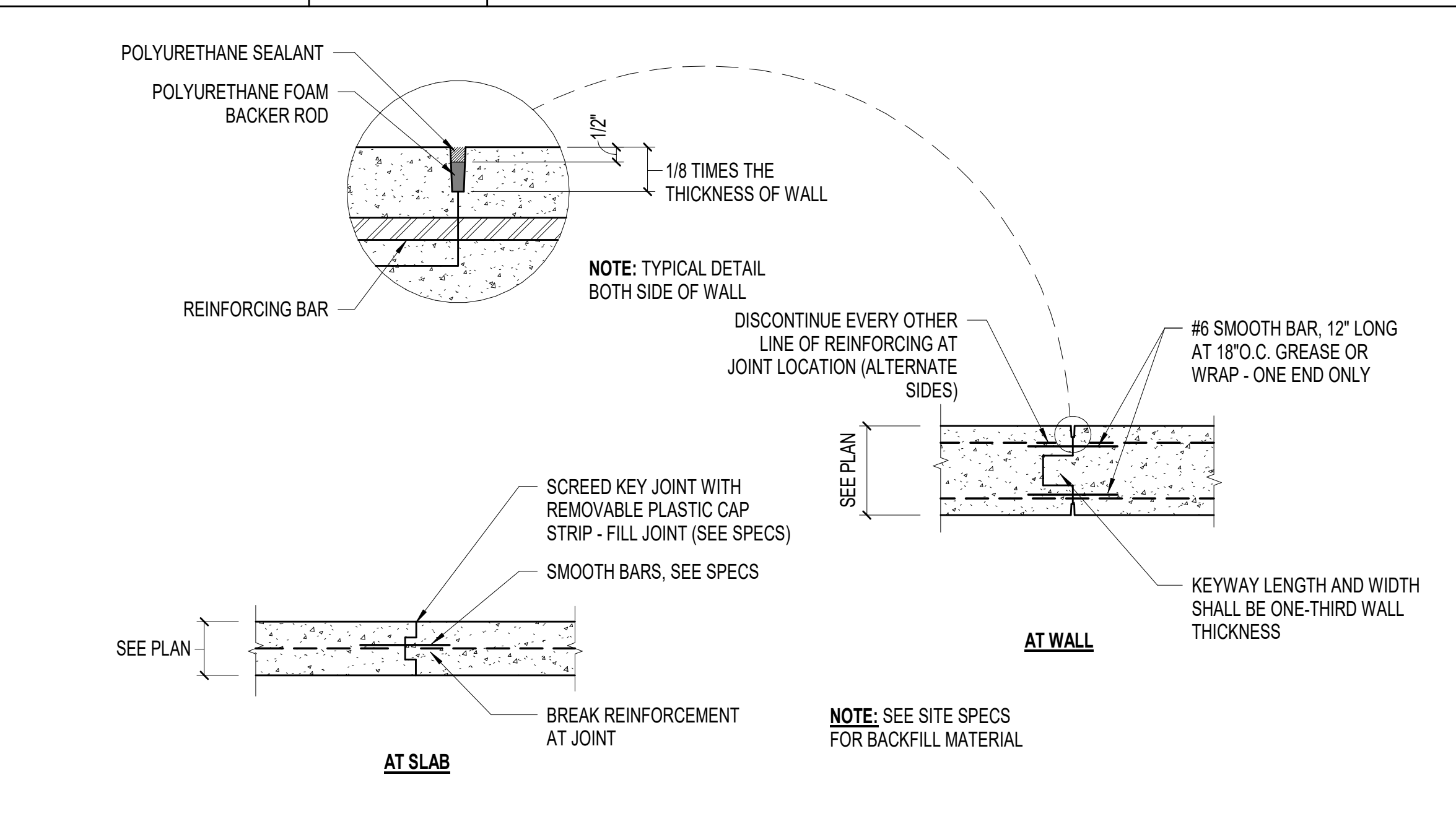
D3	TYPICAL STEPPED FOOTING DETAIL	D8	TYPICAL ADDITIONAL REINFORCING FOR OPENING IN CONCRETE WALL/SLAB
3/4" = 1'-0"		3/4" = 1'-0"	



A1	TYPICAL BOLLARD DETAIL
3/4" = 1'-0"	



A3	TYPICAL PIPE AT FOOTING DETAIL
3/4" = 1'-0"	



A7	TYPICAL WALL AND SLAB CONSTRUCTION JOINT DETAIL
3/4" = 1'-0"	

Scale: As indicated

No.	Revision	By	Date

Designed by:  
**WILLIAM P. FAUCHER, P.E.**  
 ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: WPF	03/25/24	Checked: WPF	03/25/24
Drawn: CMW	03/25/24		

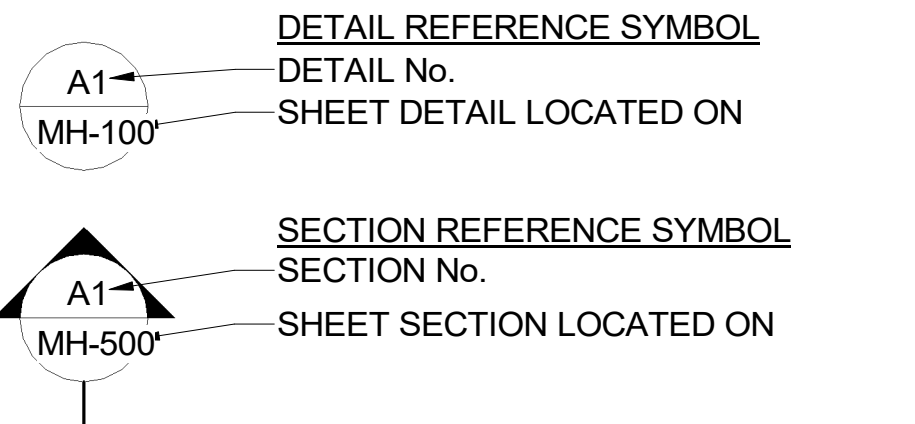
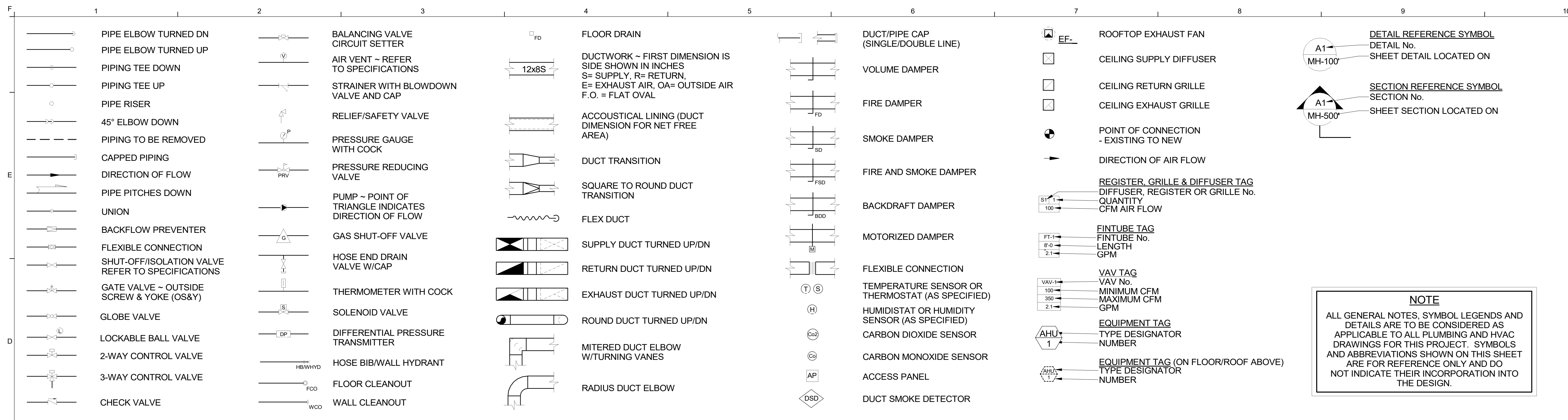
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AEI PROJ.NO.: 20020 CAD FILE: 20020S\_R20.rvt

**THE GOLD STAR MEMORIAL HIGHWAY**  
 MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**STRUCTURAL - FOUNDATION DETAILS - 2**

SHEET NUMBER: SB-501  
 CONTRACT: 2024.09  
 23 OF 32



**NOTE**

ALL GENERAL NOTES, SYMBOL LEGENDS AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING AND HVAC DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.

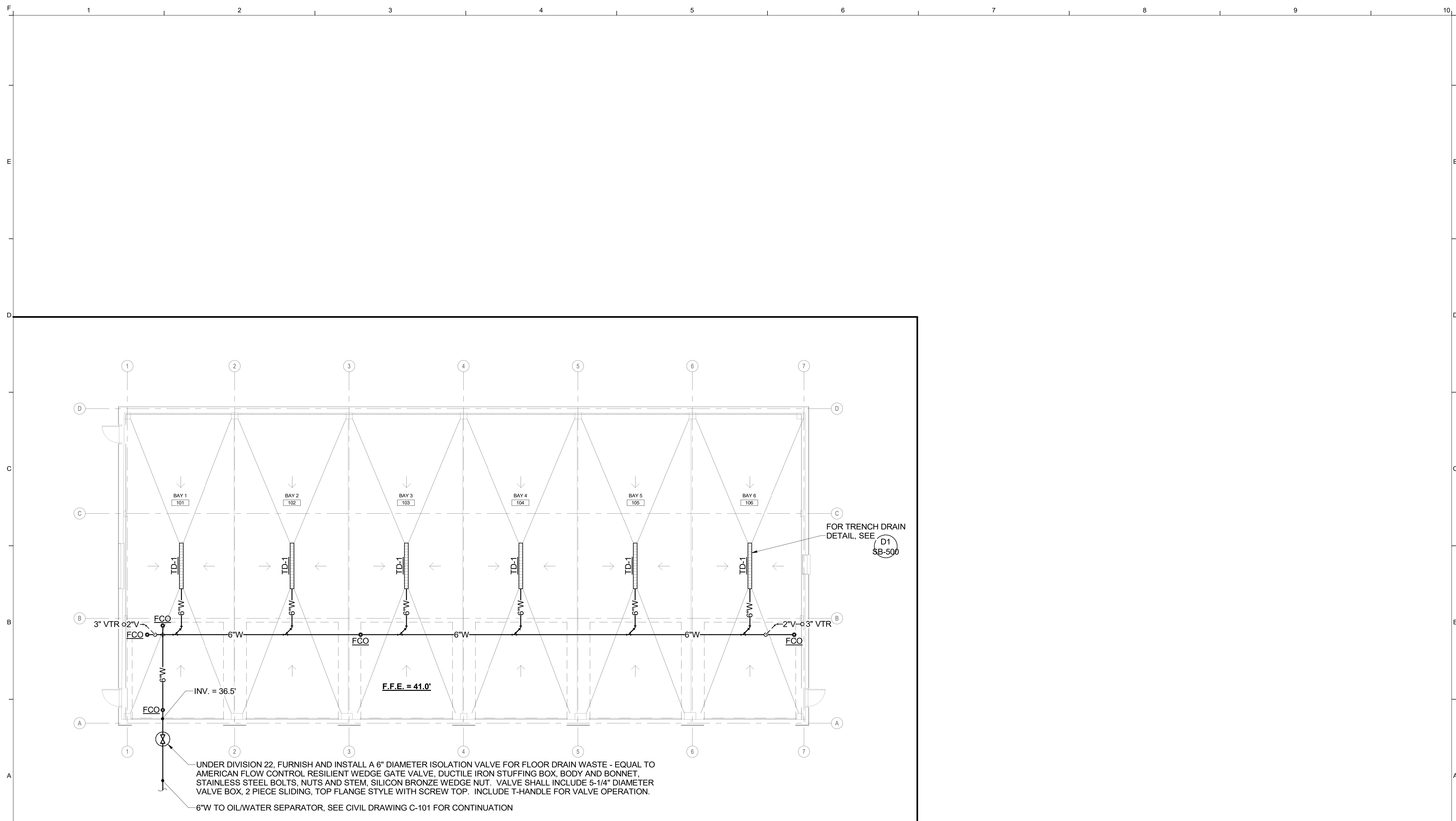
**D1 SYMBOLOGY LEGEND**

NONE			
AW	ACID WASTE	HCR	HEAT/COOL RETURN
ATV	AIR RELIEF	HCS	HEAT/COOL SUPPLY
BBD	BOILER BLOWDOWN	HPWR	HEAT PUMP WATER RETURN
C	CONDENSATE (HVAC DRAIN PAN)	HPWS	HEAT PUMP WATER SUPPLY
CA	COMPRESSED AIR	HPC	HIGH PRESSURE CONDENSATE
CHWR	CHILLED WATER RETURN	HPS	HIGH PRESSURE STEAM
CHWS	CHILLED WATER SUPPLY	HTWR	HIGH-TEMP HOT WATER RETURN
CTR	COOLING TOWER RETURN	HWR	HOT WATER RETURN
CTS	COOLING TOWER SUPPLY	HWS	HOT WATER SUPPLY
CWR	CONDENSER WATER RETURN	IND	INDUSTRIAL WASTE
CWS	CONDENSER WATER SUPPLY	IW	INDIRECT WASTE
DCW	DOMESTIC COLD WATER	LN	LIQUID NITROGEN
DHW	DOMESTIC HOT WATER	LOX	LIQUID OXYGEN
DHW RECIRC	DOMESTIC HOT WATER RECIRC.	LP	LIQUID PETROLEUM GAS
D	DRAIN	LPR	LOW PRESSURE CONDENSATE
FM	PUMP FORCE MAIN	LPS	LOW PRESSURE STEAM
FOF	FUEL OIL FILL	MA	MEDICAL AIR
FOR	FUEL OIL RETURN	MPR	MEDIUM PRESSURE CONDENSATE
FOS	FUEL OIL SUPPLY	MPS	MEDIUM PRESSURE STEAM
FOV	FUEL OIL TANK VENT	MUW	MAKE-UP WATER
FW	FEEDWATER	N2	NITROGEN
GR	GLYCOL RETURN	NG	NATURAL GAS
GS	GLYCOL SUPPLY	NO	NITROUS OXIDE
GW	GREASE WASTE	NPW	NON-POTABLE WATER
GWR	GEO THERMAL WATER RETURN	OX	OXYGEN
GWS	GEO THERMAL WATER SUPPLY	PC	PUMPED CONDENSATE
H	HUMIDIFICATION LINE	PCWR	PROCESS COLD WATER RETURN
H2	HYDROGEN GAS	PCWS	PROCESS COLD WATER SUPPLY
		RD	REFRIGERANT DISCHARGE
		RL	REFRIGERANT LIQUID
		RS	REFRIGERANT SUCTION
		RO	REVERSE OSMOSIS WATER
		RW	RAIN WATER - ABOVE FLOOR
		RWB	RAIN WATER - BELOW GRADE
		RWO	RAIN WATER OVERFLOW - ABOVE FLOOR
		RWOB	RAIN WATER OVERFLOW - BELOW GRADE
		SP	SPRINKLER MAIN PIPING
		SWR	SOLAR WATER RETURN
		SWS	SOLAR WATER SUPPLY
		TP	TRAP PRIMER - ABOVE FLOOR
		TPB	TRAP PRIMER - BELOW GRADE
		TWR	TEMPERED WATER RETURN
		TWS	TEMPERED WATER SUPPLY
		V	SANITARY SOIL VENT - ABOVE FLOOR
		VB	SANITARY SOIL VENT - BELOW GRADE
		VAC	VACUUM (AIR)
		VC	VACUUM CLEANING (HOUSE)
		VPD	VACUUM PUMP DISCHARGE
		W	SANITARY SOIL WASTE - ABOVE FLOOR
		WB	SANITARY SOIL WASTE - BELOW GRADE
		WV	SANITARY WET VENT - ABOVE FLOOR
		WVB	SANITARY WET VENT - BELOW GRADE
		AAV	AUTOMATIC AIR VENT
		AD	ACCESS DOOR
		AFF; A.F.F.	ABOVE FINISHED FLOOR
		AHU	AIR HANDLING UNIT
		AP	ACCESS PANEL
		APPROX.	APPROXIMATE; APPROXIMATELY
		ATC	AUTOMATIC TEMPERATURE CONTROL
		AV	AIR VENT
		BDD	BACKDRAFT DAMPER
		BFP	BACKFLOW PREVENTER
		BLDG	BUILDING
		BOD	BOTTOM OF DUCT
		CONV.	CONVECTOR
		CFM	CUBIC FEET PER MINUTE
		CLG	CEILING
		CO	CLEANOUT
		CONN	CONNECT; CONNECTION
		CONT.	CONTINUE; CONTINUATION
		COORD.	COORDINATE
		CTE	CONNECT TO EXISTING
		CTR	CENTER
		CU	COPPER; CONDENSING UNIT
		DDC	DIRECT DIGITAL CONTROL
		DIC	DOWN IN CHASE
		DIW	DOWN IN WALL
		DN	DOWN
		EF	EXHAUST FAN
		ELEV	ELEVATION
		ENC	ENCLOSURE
		ERU	ENERGY RECOVERY UNIT
		ET	EXPANSION TANK
		(E)	EXISTING
		FC	FLEXIBLE CONNECTION
		FCO	FLOOR CLEANOUT
		FD#	FLOOR DRAIN TAG
		FD	FIRE DAMPER
		FTG	FOOTING
		GC	GENERAL CONTRACTOR
		GPM	GALLONS PER MINUTE
		GRV	GRAVITY ROOF VENTILATOR
		H	HUMIDIFIER
		HB	HOSE BIBB
		HC; HDC	HANDICAP ACCESS
		HGT; HT	HEIGHT
		HP	HEAT PUMP
		HRU	HEAT RECOVERY UNIT
		HVAC	HEATING, VENTILATING AND AC
		HW	HOT WATER
		HWR	HOT WATER RETURN
		HWS	HOT WATER SUPPLY
		HX	HEAT EXCHANGER
		INCL.	INCLUDING
		LP	LIQUID PETROLEUM GAS
		LPR	LOW PRESSURE STEAM RETURN
		LPS	LOW PRESSURE STEAM SUPPLY
		MAX	MAXIMUM
		MBH	1000 BTUH/hr.
		MFR	MANUFACTURER
		MIN	MINIMUM
		MOD	MOTOR OPERATED DAMPER
		MTD	MOUNTED
		MTG	MOUNTING
		MUA	MAKE UP AIR
		N.C.	NORMALLY CLOSED
		N.O.	NORMALLY OPEN
		NG	NATURAL GAS
		NIC	NOT IN CONTRACT
		NPT	NATIONAL PIPE THREAD
		NTS	NOT TO SCALE
		OD	OUTSIDE DIAMETER
		OED	OPEN ENDED DUCT
		P#	PLUMBING FIXTURE TAG
		PRS	PRESSURE REDUCING STATION
		RD	ROOF DRAIN
		RHC	REHEAT COIL
		RM	ROOM
		RPZ	REDUCED PRESSURE BFP
		RR	RETURN REGISTER
		RV	RELIEF VALVE
		RW	RAIN WATER
		S	SUPPLY AIR
		SA-" "	SHOCK ABSORBER OF PDI SIZE (" ") AS INDICATED
		SCV	SELF-CONTAINED VALVE
		SPLR	SPRINKLER
		SQ. FT.; SF	SQUARE FEET
		S.S.	STAINLESS STEEL
		TD	TRENCH DRAIN
		TP	TRAP PRIMER
		TSP	TOTAL STATIC PRESSURE
		TTS	TIGHT TO STEEL
		TYP	TYPICAL
		UH	UNIT HEATER
		UIC	UP IN CHASE
		UIW	UP IN WALL
		VAC	VACUUM
		VCFF	VALVE & CAP FOR FUTURE
		W	WITH
		WB	WET BULB TEMPERATURE, °F
		WCO	WALL CLEANOUT
		WH	WATER HEATER
		WHYD	WALL HYDRANT

**A1 PIPING LINETYPE LEGEND**      **A5 ABBREVIATIONS**

Scale: 12" = 1'-0"	Designed by: 				<b>THE GOLD STAR MEMORIAL HIGHWAY</b>	<b>CONTRACT 2024.09</b> <b>YORK VEHICLE STORAGE GARAGE</b> <b>PLUMBING AND HVAC NOTES, LEGEND AND ABBREVIATIONS</b>																
<table border="1"> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	No.						Revision	By	Date					ANTHONY S. DAVIS, P.E. ISSUED FOR BID - NOT FOR CONSTRUCTION	<table border="1"> <tr> <th>By</th> <th>Date</th> <th>By</th> <th>Date</th> </tr> <tr> <td>ASD</td> <td>03/25/24</td> <td>ASD</td> <td>03/25/24</td> </tr> </table>	By	Date	By	Date	ASD	03/25/24	ASD
No.	Revision	By	Date																			
By	Date	By	Date																			
ASD	03/25/24	ASD	03/25/24																			





UNDER DIVISION 22, FURNISH AND INSTALL A 6" DIAMETER ISOLATION VALVE FOR FLOOR DRAIN WASTE - EQUAL TO AMERICAN FLOW CONTROL RESILIENT WEDGE GATE VALVE, DUCTILE IRON STUFFING BOX, BODY AND BONNET, STAINLESS STEEL BOLTS, NUTS AND STEM, SILICON BRONZE WEDGE NUT. VALVE SHALL INCLUDE 5-1/4" DIAMETER VALVE BOX, 2 PIECE SLIDING, TOP FLANGE STYLE WITH SCREW TOP. INCLUDE T-HANDLE FOR VALVE OPERATION.

6"W TO OIL/WATER SEPARATOR, SEE CIVIL DRAWING C-101 FOR CONTINUATION

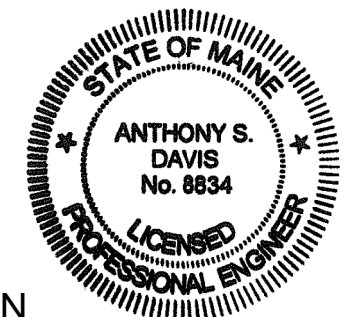
FOR TRENCH DRAIN  
DETAIL, SEE (D1)  
SB-500

**A1 SANITARY PIPING PLAN**

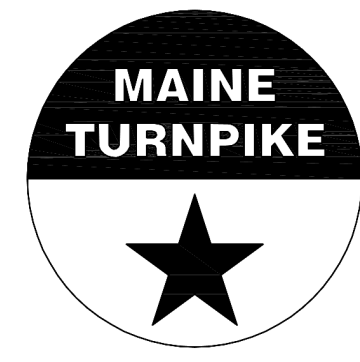
1/8" = 1'-0"

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

Designed by: *Anthony S. Davis*



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

**CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
SANITARY PIPING PLAN**

No.	Revision	By	Date

ANTHONY S. DAVIS, P.E.

ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed: ASD	03/25/24	Checked: ASD	03/25/24
Drawn: REW	03/25/24		

AEI PROJ.NO.: 20020 CAD FILE:

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

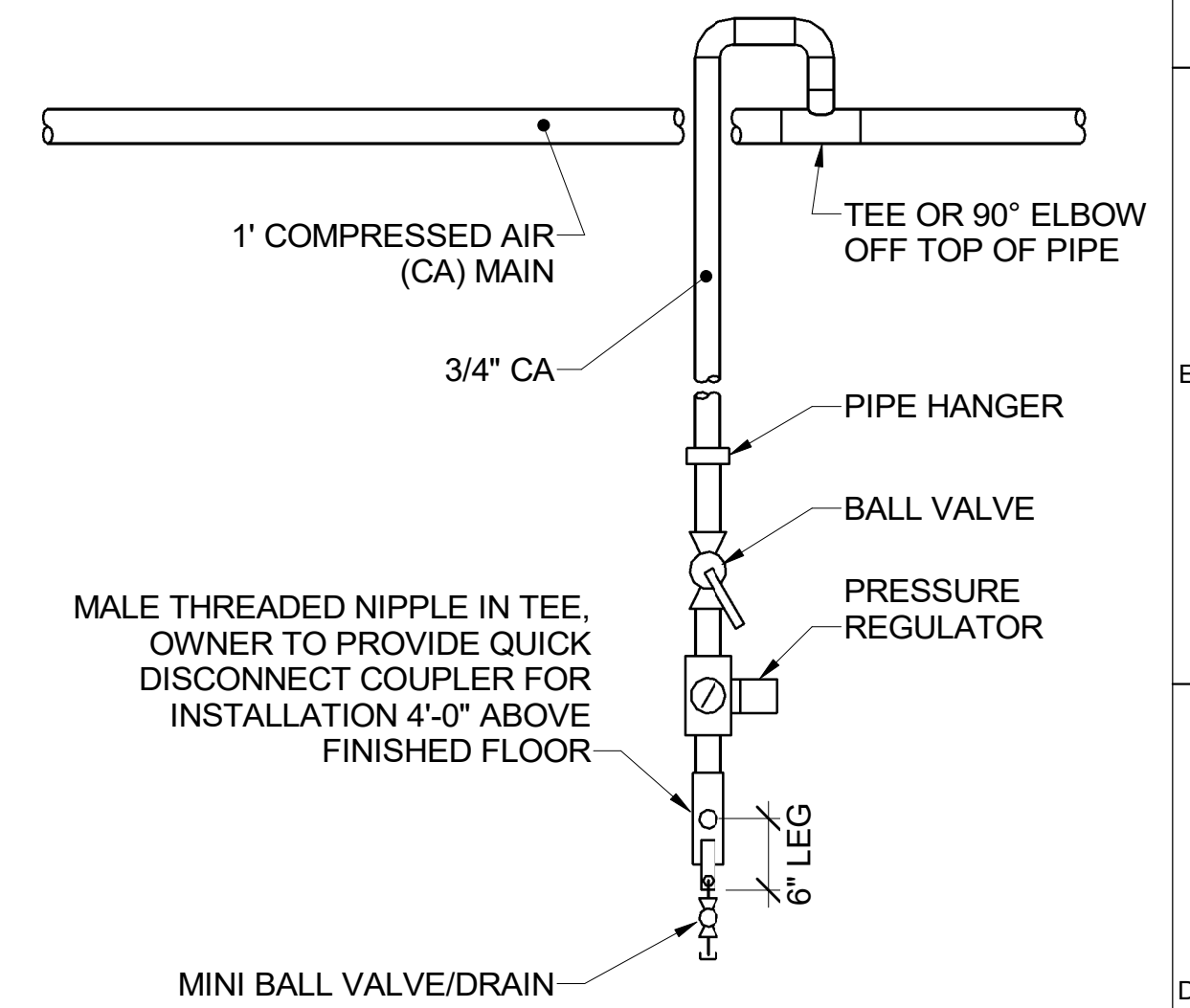
CONTRACT: 2024.09 SHEET NUMBER: PL-100 25 OF 32

EXPANSION TANK SCHEDULE	
SYSTEM	DOMESTIC HOT WATER
PIPE SIZE	3/4"
BLADDER-TYPE EXPANSION TANK	
MFR-MODEL	AMTROL ST-5
TANK DIAMETER	8
TANK HEIGHT	13
ACCEPTANCE VOLUME	2
WEIGHT LBS	5

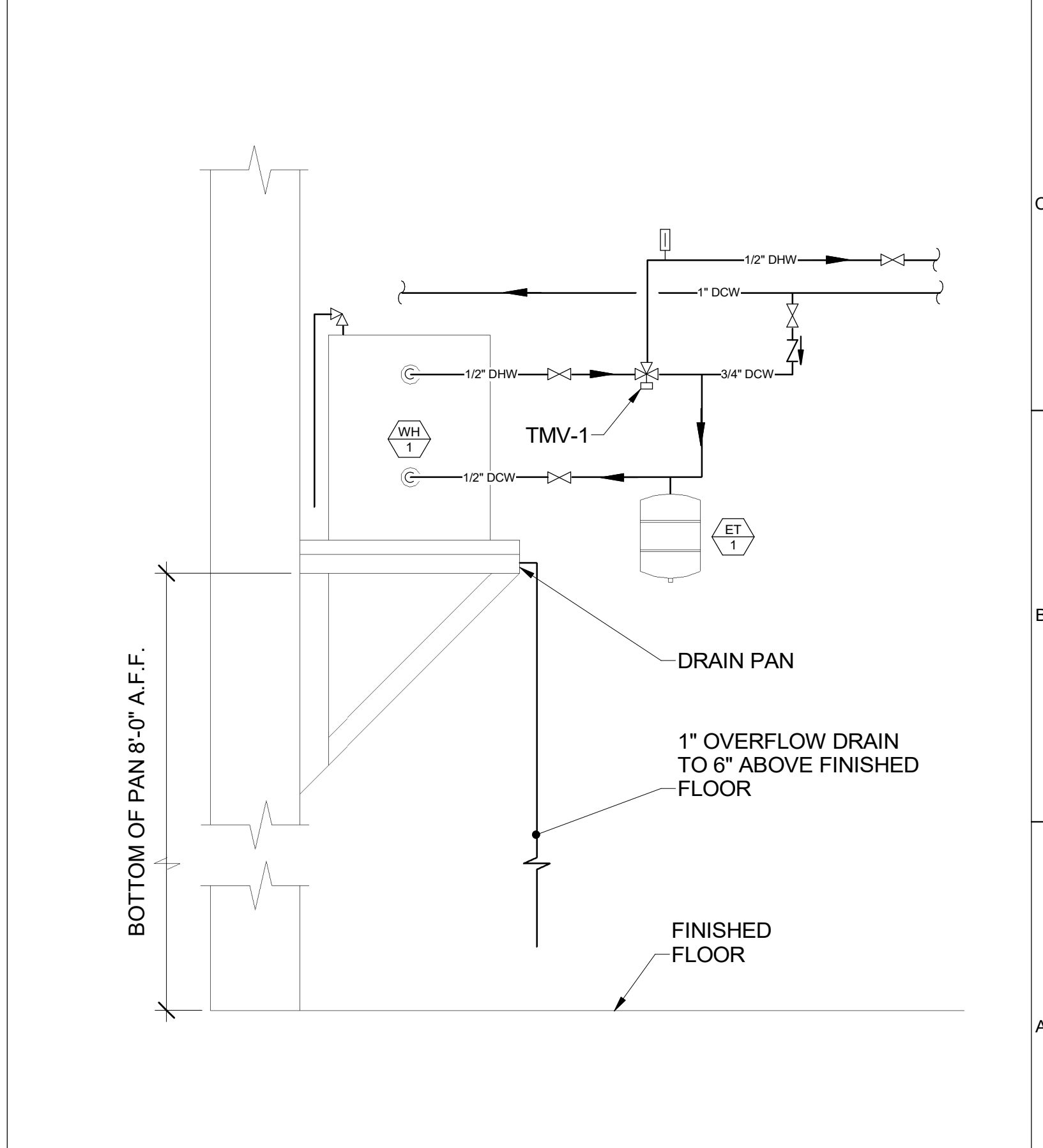
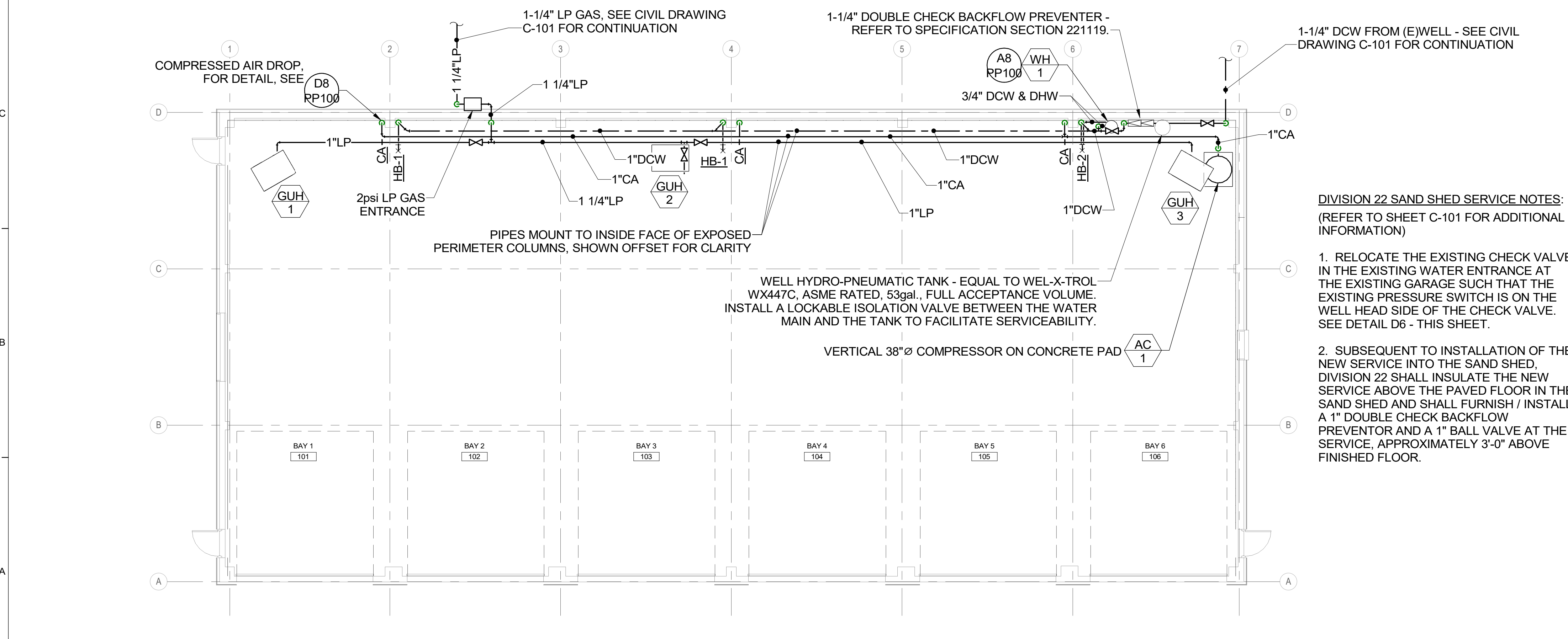
ELECTRIC WATER HEATER SCHEDULE											
TAG	MANUFACTURER	MODEL	VOLTS	PHASE	HEAT INPUT (KW)	GPH RECOVERY	TEMP RISE (DEG-F)	WATER STORAGE (GAL)	HEIGHT (INCHES)	DIAMETER (INCHES)	APPROX WEIGHT (LBS.)
WH-1	AO SMITH	EJC-10	120	1	1.65	8	90	10	18	16	130

Note: Water Heater suspended in wall pan shelf equal to Holdrite #30-SWHP-M

AIR COMPRESSOR SCHEDULE														
TAG	MANUFACTURER	MODEL	TYPE	MAXIMUM FLOW EA. PUMP (acfm)	MAXIMUM PUMP PRESS. (psig)	RECEIVER			ELECTRICAL			PHYSICAL	NOTES	
						SIZE (gal.)	RECEIVER TYPE	DIA. (in.)	MOTOR QUAN.	MOTOR SIZE (hp)	MOTOR SPEED (rpm)	VOLT/PH		LENGTH/ WIDTH/ HEIGHT (in.)
AC-1	INGERSOLL RAND	2475N7.5	2-STAGE RECIPI	24	175	80	VERTICAL	38	1	7.5	---	230/1	38/26/70	



D1	PLUMBING SCHEDULES	D6	REVISED WATER ENTRANCE PIPING	D8	DETAIL - COMP. AIR TOOL CONN. PIPING
NONE		NONE		NOT TO SCALE	



A1	DOMESTIC PIPING PLAN	A8	DETAIL - DOMESTIC WATER HEATER PIPING SCHEMATIC - WH-1
1/8" = 1'-0"		NOT TO SCALE	

Scale: As indicated

No.	Revision	By	Date

Designed by: *Catherine A. Faucher*

CATHERINE A FAUCHER, P.E.

ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
ASD	03/25/24	ASD	03/25/24
REW	03/25/24		

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MAINE TURNPIKE

THE GOLD STAR MEMORIAL HIGHWAY

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
DOMESTIC PIPING PLAN

SHEET NUMBER: PP-100

CONTRACT: 2024.09

26 OF 32

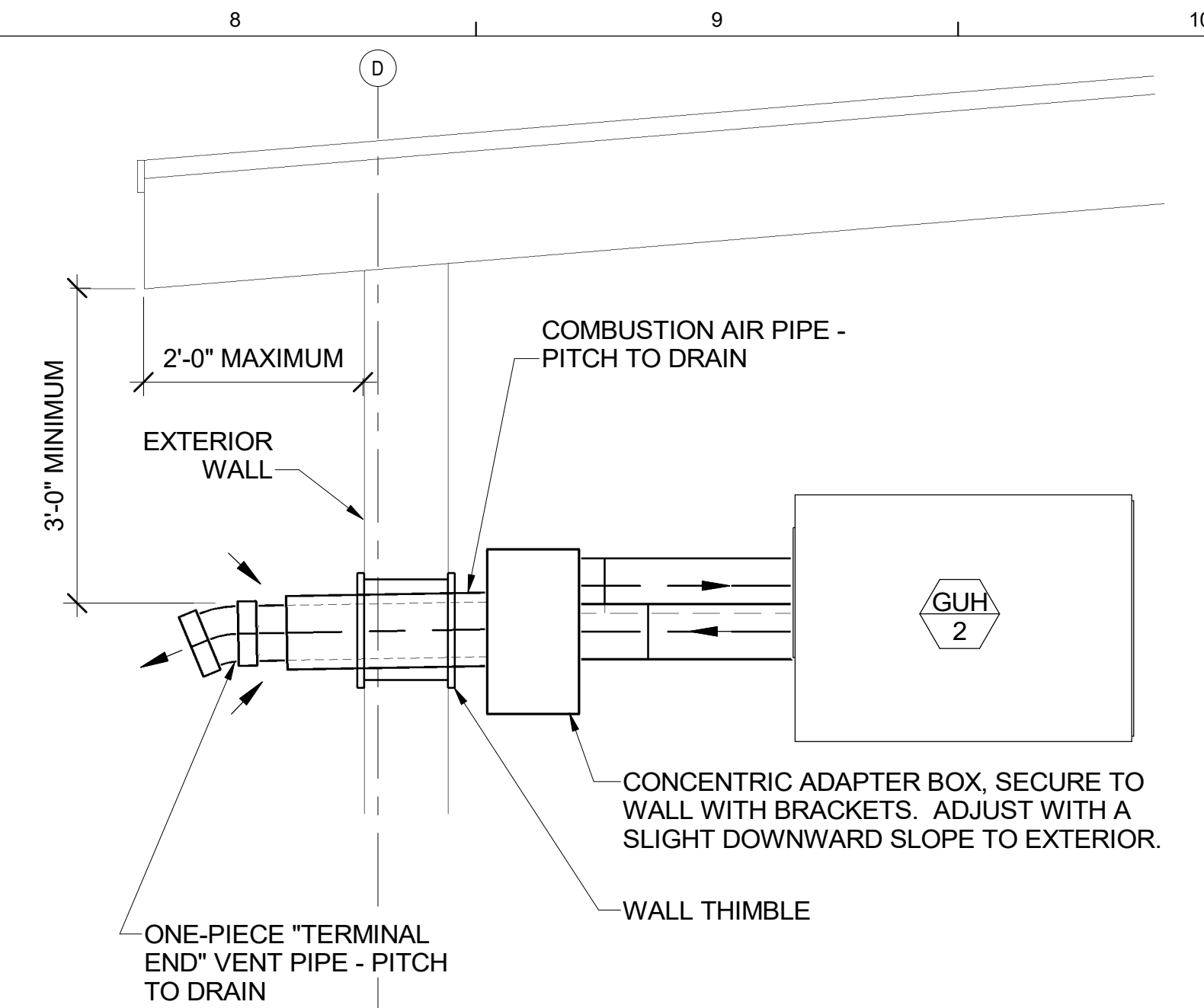
LOUVER SCHEDULE													
TAG	MAKE - MODEL	AIR SYSTEM	DUTY	CFM	DIMENSIONS					BEGINNING POINT OF WATER PENETRATI...	MAX P.D. MAX W.C.	SCREEN	NOTES
					HEIGHT (IN.)	WIDTH (IN.)	MIN. FREE AREA (SF)	NET VELOCITY (FT/MIN)	% FREE AREA				
L-1	RUSKIN ELF445DX	EF-1	INTAKE	9,100	72	72	18	505.6	50.0%	4"	873 FPM	0.06	SEE SPEC

FAN SCHEDULE													
TAG	SERVES	MANUFACTURER-MODEL	TYPE	DRIVE	CFM	ESP	MOTOR HP	VOLTS/PH	VFD	MAX SONES	DAMPER	WEIGHT (LBS.)	NOTES
EF-1	GARAGE EXHAUST	LOREN COOK - 30XMWH	WALL MOUNT w/HOOD	DIRECT	9,100	0.5	2	208/3	YES	30.0	MOD	500	1,3,4,5
DF-1 thru 3	DESTRATIFICATION	ZOO FANS H60 PREMIUM	DESTRAT. FAN	DIRECT	1,500	--	106w	115/1	NO	--	N/A	23	2

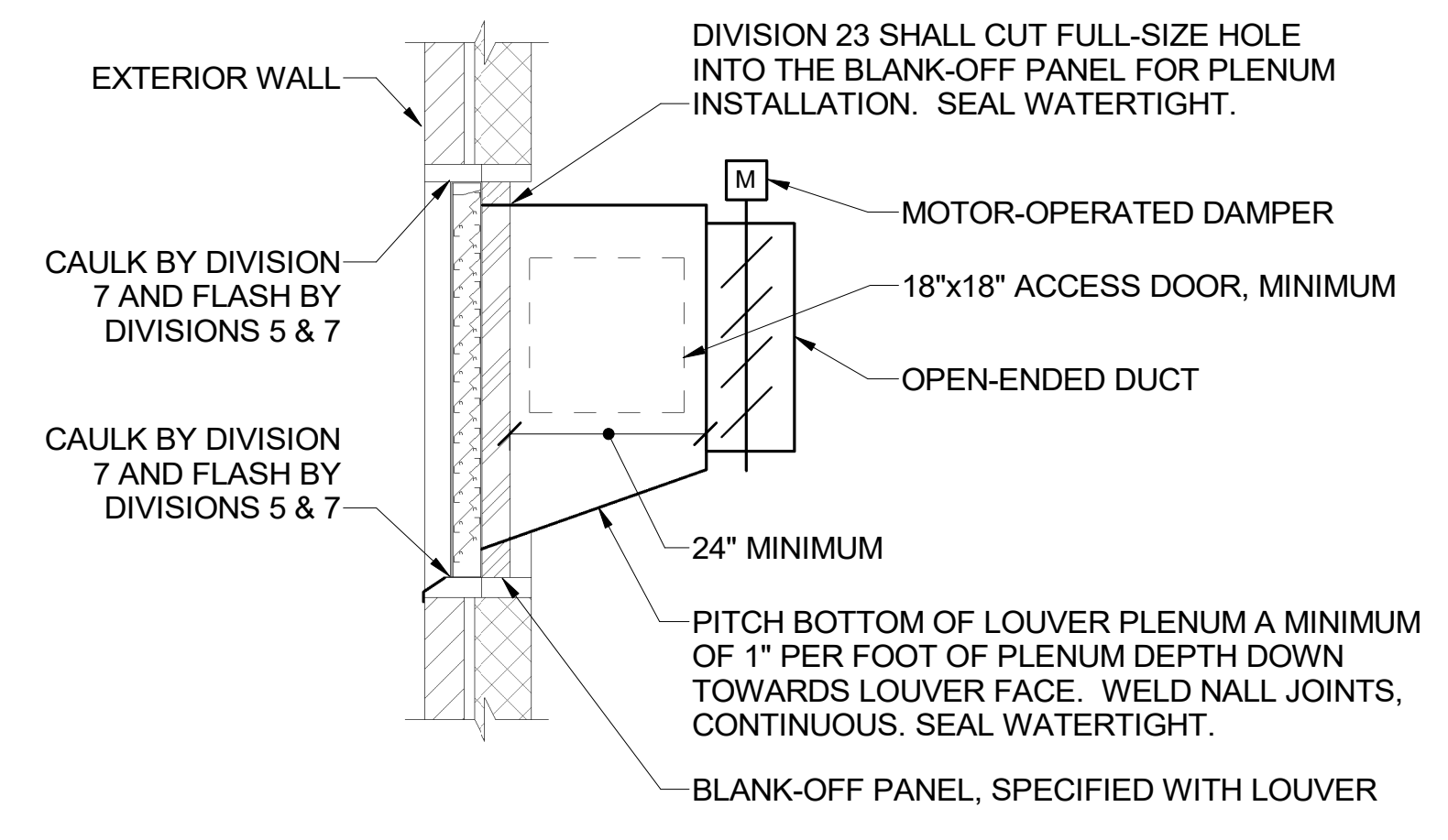
NOTES:  
1. PROVIDE UNIT MOUNTED FACTORY DISCONNECT SWITCH AND STARTER.  
2. PROVIDE WALL MOUNTED VARIABLE SPEED CONTROLLER.  
3. INTERLOCK WITH LOUVER AND EF MOD'S  
4. PROVIDE WALL-MOUNTED TIMER SWITCH AS MANUFACTURED BY INTERMATIC - MODEL No. FF2H OR EQUAL. COORDINATE w/ DIVISION 26 FOR OPERATION AS SPECIFIED.  
5. PROVIDE WALL-MOUNTED VARIABLE SPEED DRIVE EQUAL TO INVERTEK E3 SERIES, 230V SINGLE PHASE INPUT, 230V THREE PHASE OUTPUT.

LP GAS FIRED SEALED COMBUSTION UNIT HEATER SCHEDULE																			
TAG	SERVES	MFR.-MODEL	SIZE	TYPE	EXPOSED FACE DIM.	DEPTH DIM.	WEIGHT LBS	INPUT MBH	OUTPUT MBH	DISCHARGE TEMP RISE	GAS PRESSURE RANGE (MIN-MAX)	GAS CONN. SIZE	CFM	VENT CONN.	COMB. AIR	MOTOR HP	MOP (AMPS)	ELECT	NOTES
GUH-1	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBSTN	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2
GUH-2	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBSTN	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2
GUH-3	GARAGE	REZNOR - UDZ	300	LP GAS FIRED SEPARATED COMBSTN	41" x 34"	48"	331	300	249	50-60F	7" -14"	3/4"	3840	6"	6"	1/2	20	115/160	1,2

NOTES: 1. Standard Built-in (20A) Disconnect Switch  
2. Concentric Venting



D8 DETAIL - GAS FIRED UNIT HEATER CONCENTRIC VENTING  
NOT TO SCALE TYPICAL FOR GUH-1 - GUH-3

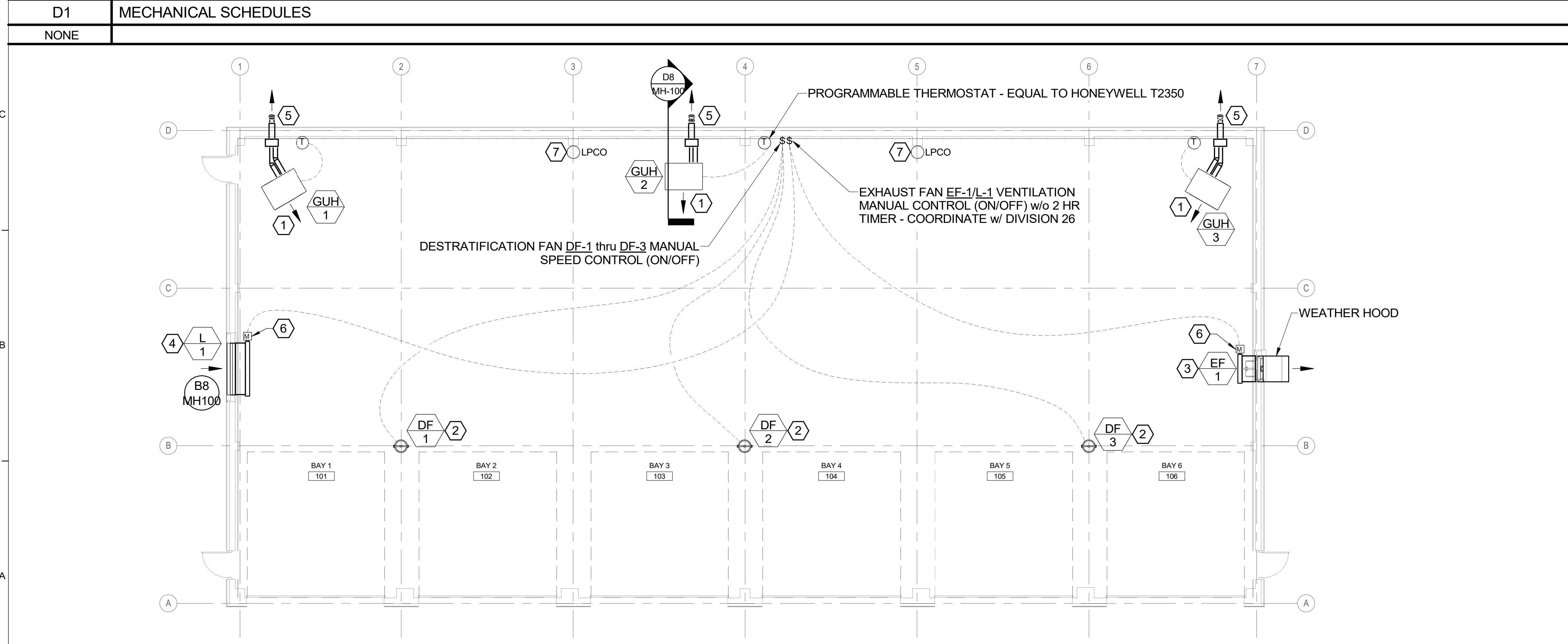


B8 DETAIL - EXTERIOR LOUVER  
NOT TO SCALE

- 1 MOUNT UNIT HIGH AS POSSIBLE, TIGHT TO ROOF STRUCTURE, MAINTAINING MANUFACTURER'S MINIMUM RECOMMENDED CLEARANCES - APPROXIMATELY 13'-0" ABOVE FINISHED FLOOR.
- 2 BOTTOM OF FAN = 14'-0" ABOVE FINISHED FLOOR.
- 3 BOTTOM OF FAN = 9'-6" ABOVE FINISHED FLOOR.
- 4 BOTTOM OF LOUVER = 9'-0" ABOVE FINISHED FLOOR.
- 5 CONCENTRIC 6" EXHAUST VENT / 8" OUTSIDE AIR VENT THRU EXTERIOR WALL.
- 6 LINE VOLTAGE MOD - COORDINATE w/ DIVISION 26.
- 7 LP GAS AND CARBON MONOXIDE SENSOR - EQUAL TO MINI MERLIN LPGCO OR EQUAL, 120V AC, 90 mA MAX, 500-10,000 PPM MEASURING RANGED FOR LP GAS, 0-1,000 PPM FOR CO. GAS VALUE PRE-ALARM => 8% LEL FOR LP GAS, 20 PPM FOR CO. GAS VALUE ALARM => 10% LEL FOR LP GAS, 20 PPM AFTER 2 HRS / 50 PPM AFTER 1 HR / 100 PPM AFTER 10 MIN / 300 PPM AFTER 1 MIN FOR CO.

A8 KEYED NOTES  
NONE

D1	MECHANICAL SCHEDULES
NONE	



A1 MECHANICAL PLAN  
1/8" = 1'-0"

Scale: As indicated

Designed by: *Anthony S. Davis*

ANTHONY S. DAVIS, P.E.  
ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
ASD	03/25/24	ASD	03/25/24
Drawn:	REW	03/25/24	

AEI PROJ. NO.: 20020 CAD FILE:

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**MAINE TURNPIKE**

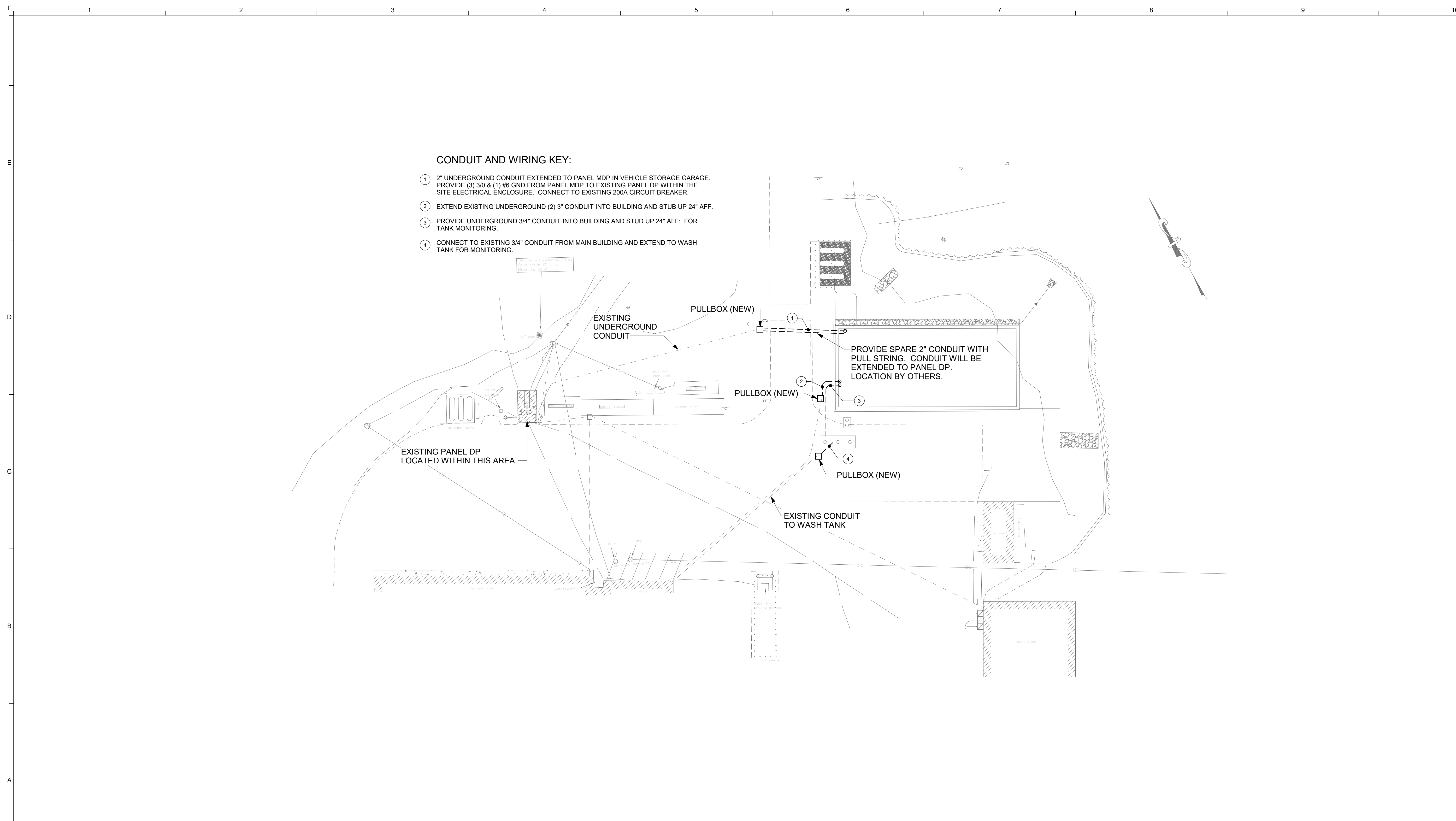
**THE GOLD STAR MEMORIAL HIGHWAY**

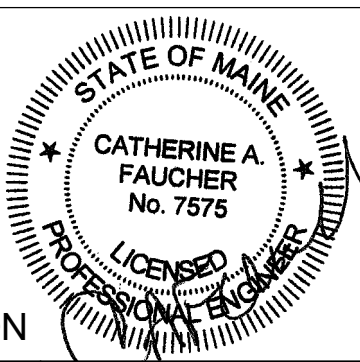
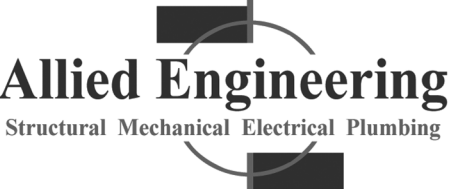

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
MECHANICAL PLAN

SHEET NUMBER: MH-100

CONTRACT: 2024.09 27 OF 32



A1	ELECTRICAL SITE PLAN		
1" = 30'-0"			
Scale:	Designed by:		
1" = 30'-0"			
No.	Revision	By	Date
ISSUED FOR BID - NOT FOR CONSTRUCTION			
Designed:	By	Date	Checked:
CAF	CAF	03/25/24	CAF
Drawn:	By	Date	Checked:
PMC	CAF	03/25/24	CAF
			
160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266 Web: www.allied-eng.com		<b>THE GOLD STAR MEMORIAL HIGHWAY</b>	
AEI PROJ. NO.: 20020    CAD FILE:		MTA PROJECT MANAGER: Brian A. Taddeo, P.E.	
CONTRACT 2024.09 YORK VEHICLE STORAGE GARAGE ELECTRICAL SITE PLAN			SHEET NUMBER: ES100 28 OF 32
CONTRACT: 2024.09			CONTRACT: 2024.09

A	AMPERE	MC	MICROPHONE
AC	ALTERNATING CURRENT	MW	MICROWAVE
AFF	ABOVE FINISHED FLOOR	MLO	MAIN LUG ONLY
AFG	ABOVE FINISHED GRADE	MT	MOUNT
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM
BKBD	BACKBOARD	N	NEUTRAL
C	CONDUIT	NC	NORMALLY CLOSED
CAT	CATALOG, CATEGORY	NEC	NATIONAL ELECTRICAL CODE
CATV	CABLE TV	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT
CM	CIRCULAR MILS	NF	NON-FUSED
COMM	COMMUNICATIONS	NO	NORMALLY OPEN
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

**SWITCHES**

- \$a LIGHT SWITCH, 20A, 125/277V
- \$3 THREE-WAY LIGHT SWITCH
- \$4 FOUR-WAY LIGHT SWITCH
- \$2 TWO-POLE SWITCH
- \$M MOTOR RATED SWITCH WITH THERMAL OVERLOAD
- \$P SINGLE POLE SWITCH WITH RED PILOT LIGHT ~ RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED
- \$a MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING
- \$b
- \$os OCCUPANCY SENSOR SWITCH, WALL MOUNTED
- OS OCCUPANCY SENSOR, CEILING MOUNTED
- OS- OCCUPANCY SENSOR, WALL MOUNTED
- \$Lv LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT GROUPS
- \$Lvb LOW VOLTAGE LIGHT SWITCH CONTROLLING MULTIPLE LIGHTING
- LTC LIGHTING TIME CLOCK
- LC LIGHTING CONTACTOR
- LCP LIGHTING CONTROL PANEL
- PC OUTDOOR PHOTOELECTRIC SWITCH

**NOTES:**

1. MOUNT LIGHT SWITCHES WITH CENTERLINE 54" AFF, UNO
2. LOWER CASE LETTER AT SWITCH INDICATES SWITCHING

**EMERGENCY LIGHTING**

- EM HATCHING INDICATES EGRESS FIXTURE WITH BATTERY BALLAST ~ "EM" INDICATES EMERGENCY WHERE SYMBOL HATCHING IS UNCLEAR
- EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7'-6" AFF OR OVER DOOR, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- INV CENTRAL LIGHTING INVERTER

REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPES

TYPICAL FOR ALL FIXTURE TYPES :

- R1 INDICATES LUMINAIRE TYPE ON SCHEDULE
- a LOWER CASE LETTER INDICATES SWITCH GROUP

**SINGLE RECEPTACLES**

- MOUNT 54" AFF U.N.O.
- REFER TO SPECIAL RECEPTACLE SCHEDULE
- CD OVERHEAD SINGLE RECEPTACLE CORD DROP
- NOTE:  
PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES FOR NEW EQUIPMENT AND WHERE NOTED FOR RELOCATED EQUIPMENT
- FLOOR AND CEILING DEVICES
- F DUPLICATION RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- F DOUBLE DUPLICATION RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- P DUPLICATION RECEPTACLE, PEDESTAL MOUNTED
- P SINGLE RECEPTACLE, PEDESTAL MOUNTED
- C DUPLICATION RECEPTACLE, FLUSH MOUNTED IN CEILING
- C DOUBLE DUPLICATION RECEPTACLE, FLUSH MOUNTED IN CEILING
- C DUPLICATION GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
- C DOUBLE DUPLICATION GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
- CR OVERHEAD RECEPTACLE DROP, DUPLEX ~ CR= CORD REEL
- CR OVERHEAD RECEPTACLE DROP, DOUBLE DUPLICATION ~ CR= CORD REEL
- CR OVERHEAD RECEPTACLE DROP, GFCI ~ CR= CORD REEL
- 2 2-GANG JUNCTION BOX IN FLUSH FLOOR BOX

**RECEPTACLES**

- DUPLICATION RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA 5-20R
- DOUBLE DUPLICATION RECEPTACLE
- GFCI DUPLICATION RECEPTACLE, MOUNT 40" AFF UNO
- GFCI DOUBLE DUPLICATION RECEPTACLE, MOUNT 40" AFF UNO
- EWC GFCI RECEPTACLE FOR ELECTRIC WATER COOLER - COORDINATE LOCATION WITH DIVISION 22.
- WP GFCI RECEPTACLE WITH WEATHERPROOF COVER
- WP GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF

**NOTES:**

1. MOUNT RECEPTACLES WITH CENTERLINE 45" AFF UNO
2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 40" AFG UNO

**POWER DISTRIBUTION**

- PANELBOARD ~ SURFACE MOUNTED
- PANELBOARD ~ FLUSH MOUNTED
- AS AF FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- 00 MOTOR STARTER ~ NUMBER INDICATES NEMA SIZE
- 00 COMBINATION MOTOR STARTER/FUSED DISCONNECT
- MOTOR OR FAN
- M METER AND CABINET
- JUNCTION BOX
- JUNCTION BOX ~ WALL MOUNTED
- DOUBLE GANG JUNCTION BOX ~ WALL MTD 18" AFF
- JUNCTION BOX ~ FLUSH CEILING MOUNTED
- JUNCTION BOX ~ PEDESTAL MOUNTED
- TRANSFORMER ~ NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
- VARIABLE FREQUENCY DRIVE
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
- POWER SHUTOFF SWITCH ~ WALL MOUNTED 48" TO CENTER LINE
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- WIRING UNDERGROUND OR UNDERSLAB
- WIRING OVERHEAD
- HOMERUN ~ (2)#12+(1)#12G UNO (EXCEPT LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
- SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- FLEXIBLE CONNECTION
- GROUNDING SYSTEM
- MOTORIZED DOOR OPERATOR AND PUSH PADDLE ~ FURNISHED BY DIV 08, WIRED BY DIV 26
- ENCLOSED CIRCUIT BREAKER
- ATS AUTOMATIC TRANSFER SWITCH
- HAND DRYER, COORDINATE HEIGHT WITH ARCHITECTURAL PLANS
- ENCLOSED CONTACTOR
- OVERHEAD DATA DROP
- DATA OUTLET FLUSH IN CEILING

L DOOR LOCK ~ PROVIDE EMPTY 1/2" RECESSED CONDUIT WITH PULL STRING IN DOOR FRAME, RUN FROM DOOR LOCK LOCATION IN FRAME TO DOOR LOCK POWER LOCATION.

D DOOR LOCK POWER ~ POWER SUPPLIES BY OTHERS.

**NOTES:**

1. DOOR HARDWARE BY DIV 8 U.N.O.
2. LOW VOLTAGE WIRING AND DEVICES BY OWNER UNLESS NOTED OTHERWISE.
3. DIVISION 26 SHALL PROVIDE 120 VOLT POWER WHERE INDICATED. DIV 26 SHALL PROVIDE EMPTY BOXES AND CONDUITS WITH PULL STRING U.N.O.

A1	ABBREVIATIONS	A3	LIGHTING	A5	RECEPTACLES	A7	POWER DISTRIBUTION	A9	SECURITY LEGEND
NONE		NONE		NONE		NONE			

Scale: 12" = 1'-0"

No.	Revision	By	Date

Designed by:

CATHERINE A FAUCHER, P.E.

ISSUED FOR BID - NOT FOR CONSTRUCTION

By	Date	By	Date
Designed:	CAF 03/25/24	Checked:	CAF 03/25/24
Drawn:	PMC 03/25/24		

STATE OF MAINE  
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AEI PROJ.NO.: 20020 CAD FILE:

**MAINE TURNPIKE**

**THE GOLD STAR MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

**CONTRACT 2024.09**  
**YORK VEHICLE STORAGE GARAGE**  
**ELECTRICAL LEGEND**

SHEET NUMBER: E000

CONTRACT: 2024.09 29 OF 32

**Lighting and Appliance Panelboard:**

**MDP**

Location: BAY 1 101  
Supply From: DP  
Mounting: Surface

Volts: 120/240 Single  
Phases: 1  
Wires: 3

A.I.C. Rating: 22kAIC  
Mains Type: MCB  
Bus Rating: 225 A  
MCB Rating: 200 A

CKT	Circuit Description	Trip Amps	Poles	A		B		Circuit Description	CKT
1	DOOR OPERATOR BAY 1	20	1	1.4	0			DESTRAT FANS	2
3	DOOR OPERATOR BAY 2	20	1			1.4	1.7	WATER HEATER	4
5	DOOR OPERATOR BAY 3	20	1	1.4	0			HVAC CONTROL POWER	6
7	DOOR OPERATOR BAY 4	20	1			1.4	0.2	Receptacles	8
9	DOOR OPERATOR BAY 5	20	1	1.4	0			Receptacles	10
11	DOOR OPERATOR BAY 6	20	1			1.4	0.7	Receptacles	12
13	Receptacles	20	1	0.7	0			Receptacles	14
15	GUH-1	20	1			0.7	0.9	Receptacles	16
17	GUH-3	20	1	0.7	0			Receptacles	18
19	LIGHTING SWITCH a	20	1			0.7	0.7	GUH-2	20
21	LIGHTING SWITCHES b,c	20	1	1	0			CORD REELS BAYS 1-2	22
23	EXTERIOR BUILDING LIGHTING	20	1			0.7	0.7	CORD REELS BAYS 3-4	24
25	LP GAS CO DETECTOR	20	1	1	0			CORD REELS BAYS 5-6	26
27	Spare	20	1			0	0	Spare	28
29	Spare	20	1	0	0			Spare	30
31	Spare	20	1			0	0	Spare	32
33	Spare	20	1	0	0			Spare	34
35	Spare	20	1			0	1.4	HVAC - EF-1	36
37	Spare	20	1	0	0				38
39	Spare	20	1			0	4.8	HVAC - AC-1	40
41	Spare	20	1	0	0				42
43	Spare	20	1			0	0	Spare	44
45	Spare	20	1	0	0			Spare	46
47	Spare	20	1			0	0	Spare	48
49	Spare	20	1	0	0			Spare	50
51	Spare	20	1			0	0	Spare	52
53	Spare	20	1	0	0			Spare	54
55	Spare	20	1			0	0	Spare	56
<b>Total Load:</b>				17.9 kVA		16.9 kVA			
<b>Total Amp:</b>				149 A		140 A			

Notes:

Grounding at metal building steel column per special provision 260526\_3.5G

**SPECIAL RECEPTACLE SCHEDULE**

TAG	NEMA	DESCRIPTION (SINGLE DEVICE)	OCPD	BRANCH CIRCUIT
A	5-15R	15A-125V,2P,3W	15A-1P	2#12 & 1#12GND - 3/4" C
B	5-20R	20A-125V,2P,3W	20A-1P	2#12 & 1#12GND - 3/4" C
C	5-30R	30A-125V,2P,3W	30A-1P	2#10 & 1#10GND - 3/4" C
D	5-50R	50A-125V,2P,3W	50A-1P	2#6 & 1#10GND - 3/4" C
E	6-20R	20A-250V,2P,3W	20A-2P	2#12 & 1#12GND - 3/4" C
F	L6-20R	20A-250V,2P,3W	20A-2P	2#12 & 1#12GND - 3/4" C
G	6-30R	30A-250V,2P,3W	30A-2P	2#10 & 1#10GND - 3/4" C
H	L6-50R	50A-250V,2P,3W-LOCKING	50A-2P	2#6 & 1#10GND - 3/4" C
I	14-20R	20A-125/250V,3P,4W	20A-2P	3#12 & 1#12GND - 3/4" C
J	14-30R	30A-125/250V,3P,4W	30A-2P	2#10 & 1#10GND - 3/4" C
K	14-50R	50A-125/250V,3P,4W	50A-2P	3#6 & 1#10GND - 1" C
L	14-60R	60A-125/250V,3P,4W	60A-2P	3#6 & 1#10GND - 1" C
M	L15-20R	20A-250V,3PH,3P,4W	20A-3P	3#12 & 1#12GND - 3/4" C
N	15-30R	30A-250V,3PH,3P,4W	30A-3P	3#10 & 1#10GND - 3/4" C
P	15-50R	50A-250V,3PH,3P,4W	50A-3P	3#6 & 1#10GND - 1" C
Q	15-60R	60A-250V,3PH,3P,4W	60A-3P	3#6 & 1#10GND - 1" C
R	L5-20R	20A-125V,2P,3W, TWIST LOCK	20A-1P	2#12 & 1#12GND - 3/4" C
S	L5-30R	30A-125V,2P,3W, TWIST LOCK	30A-1P	2#10 & 1#10GND - 3/4" C
T	L6-15R	15A-250V,2P,3W, TWIST LOCK	15A-2P	2#12 & 1#12GND - 3/4" C
U	L6-20R	20A-250V,2P,3W, TWIST LOCK	20A-2P	2#12 & 1#12GND - 3/4" C
V	L6-30R	30A-250V,2P,3W, TWIST LOCK	30A-2P	2#10 & 1#10GND - 3/4" C
W	L14-20R	20A-125/250V,3P,4W,TWIST LOCK	20A-2P	3#12 & 1#12GND - 3/4" C
X	L14-30R	30A-125/250V,3P,4W,TWIST LOCK	30A-2P	3#10 & 1#10GND - 3/4" C
Y	L16-20R	20A-480V, 3P,4W, TWIST LOCK	20A-3P	3#12 & 1#12GND - 3/4" C
Z	L11-20R	20A-250V, 3P,4W, TWIST LOCK	20A-3P	3#12 & 1#10GND - 3/4" C

**BRANCH CIRCUITS SCHEDULE**

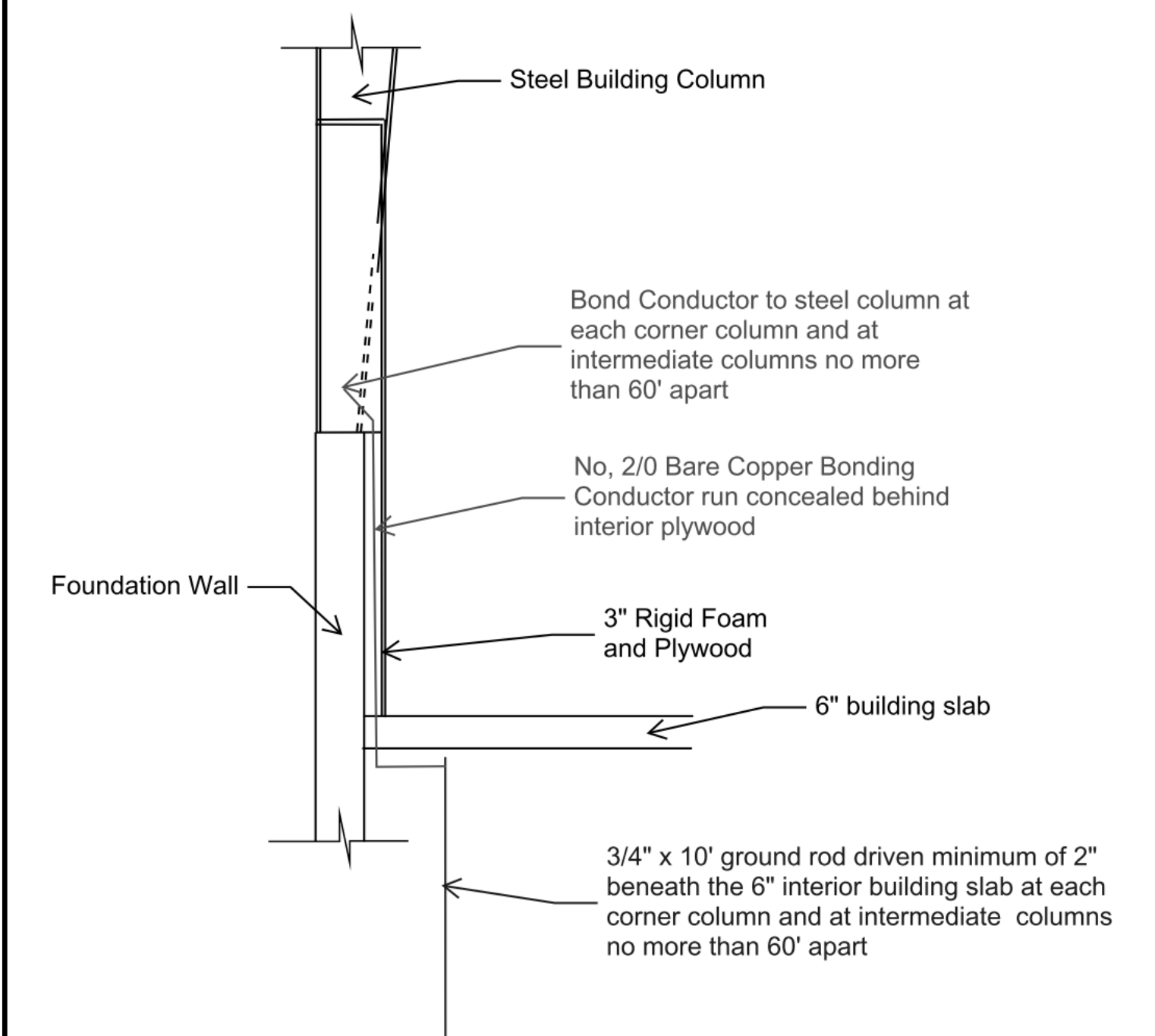
CIRCUIT BREAKER	CONDUCTOR
120 OR 277 VOLT, 1 PH., 2W CIRCUITS	
15A-1P, 20A-1P	2#12 & 1#12 GND - 3/4" C.
30A-1P	2#10 & 1#10 GND - 3/4" C.
40A-1P	2#8 & 1#10 GND - 3/4" C.
50A-1P	2#6 & 1#10 GND - 3/4" C.
60A-1P	2#6 & 1#10 GND - 3/4" C.
208 OR 480 VOLT, 1PH., 2W CIRCUITS	
15A-2P, 20A-2P	2#12 & 1#12 GND - 3/4" C.
30A-2P	2#10 & 1#10 GND - 3/4" C.
40A-2P	2#8 & 1#10 GND - 3/4" C.
50A-2P	2#6 & 1#10 GND - 3/4" C.
60A-2P	2#6 & 1#10 GND - 3/4" C.
208 OR 480 VOLT, 3PH., 3W CIRCUITS	
15A-3P, 20A-3P	3#12 & 1#12 GND - 3/4" C.
30A-3P	3#10 & 1#10 GND - 3/4" C.
40A-3P	3#8 & 1#10 GND - 3/4" C.
50A-3P	3#6 & 1#10 GND - 3/4" C.
60A-3P	3#6 & 1#10 GND - 3/4" C.

**BRANCH CIRCUIT SCHEDULE NOTES:**

- TYPE MC CABLE SHALL INCLUDE FULL SIZE INSULATED GROUND CONDUCTOR. SIZES AS INDICATED IN SCHEDULE
- WIRING BASED ON MAXIMUM FEEDER LENGTH OF 150 FEET FOR 120 VOLT CIRCUITS AND 300 FEET FOR 277...
- UPGRADE WIRE AND CONDUIT SIZE AS REQUIRED TO ADDRESS VOLTAGE DROP

**VOLTAGE DROP CHART**

MAXIMUM LOAD (VA)	MAXIMUM LENGTH PER CONDUCTOR...		
	#12	#10	#8
120 VOLT CIRCUITS			
800	155	245	390
1000	125	195	310
1200	105	165	260
1400	90	140	220
1600	80	125	195
1800	70	110	175
277 VOLT CIRCUITS			
2000	330	525	830
2500	265	420	665
3000	220	350	555
3500	190	300	475
4000	165	260	415



**A1 ELECTRICAL SCHEDULES**

**A7 ELECTRICAL GROUNDING DETAIL**

Scale:

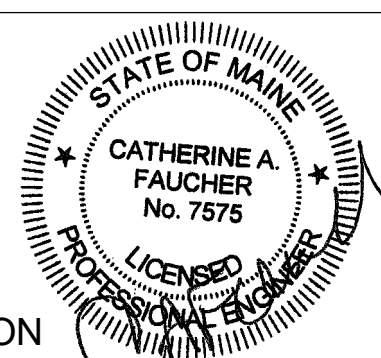
Designed by:

No.	Revision	By	Date
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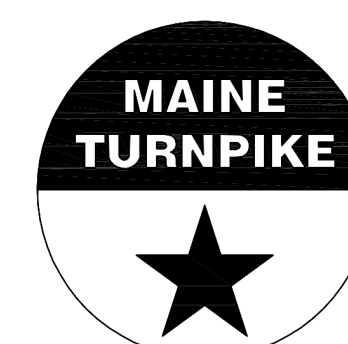
CATHERINE A FAUCHER, P.E.

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Designed:	By	Date	Checked:	By	Date
CAF	CAF	03/25/24	CAF	CAF	03/25/24
Drawn:	PMC	03/25/24			



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**THE GOLD STAR  
MEMORIAL HIGHWAY**

AEI PROJ.NO.: 20020 CAD FILE:

MTA PROJECT MANAGER: Brian A. Taddeo, P.E.

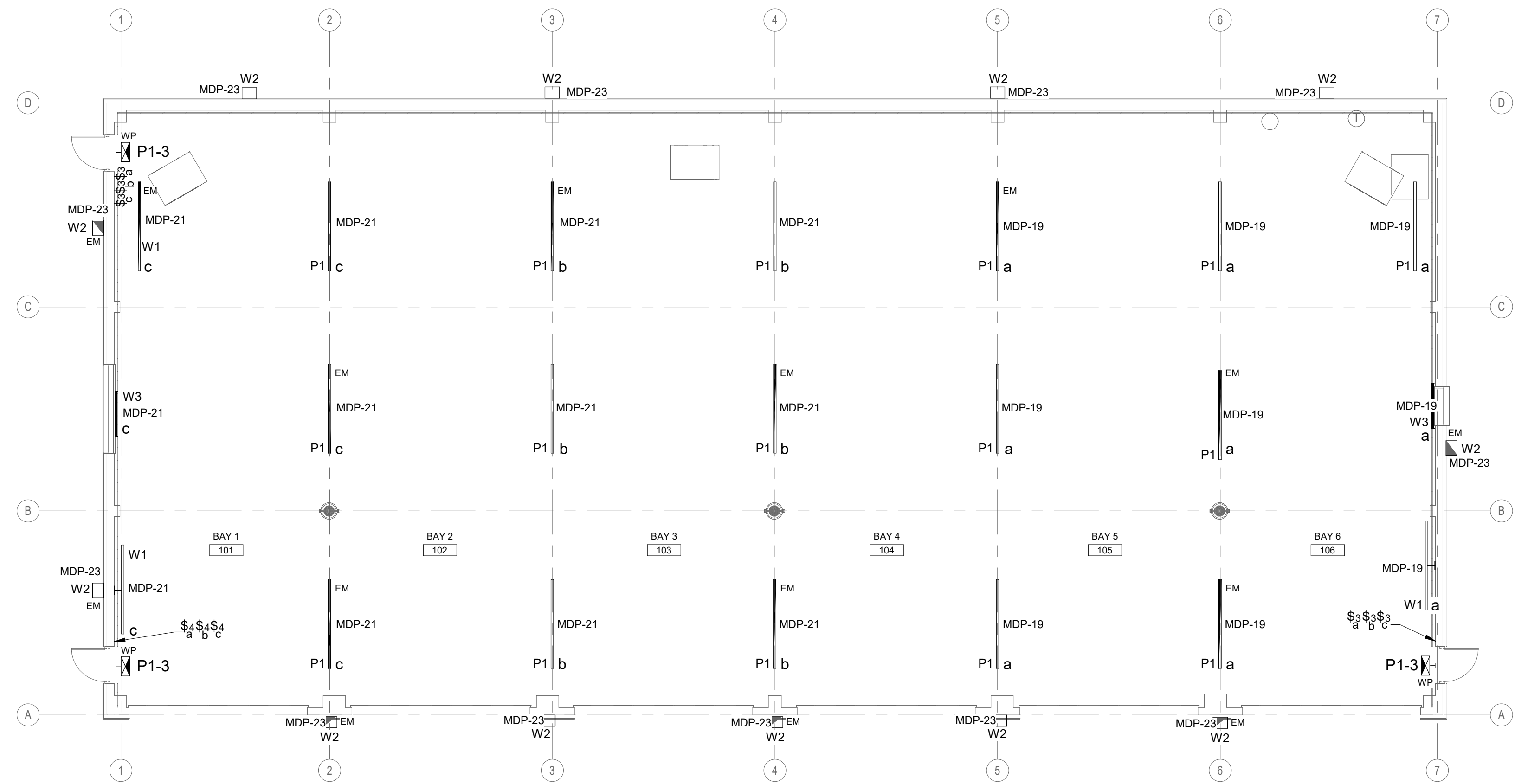
**CONTRACT 2024.09  
YORK VEHICLE STORAGE GARAGE  
ELECTRICAL GENERAL NOTES AND SCHEDULES**

SHEET NUMBER: E001

CONTRACT: 2024.09

30 OF 32

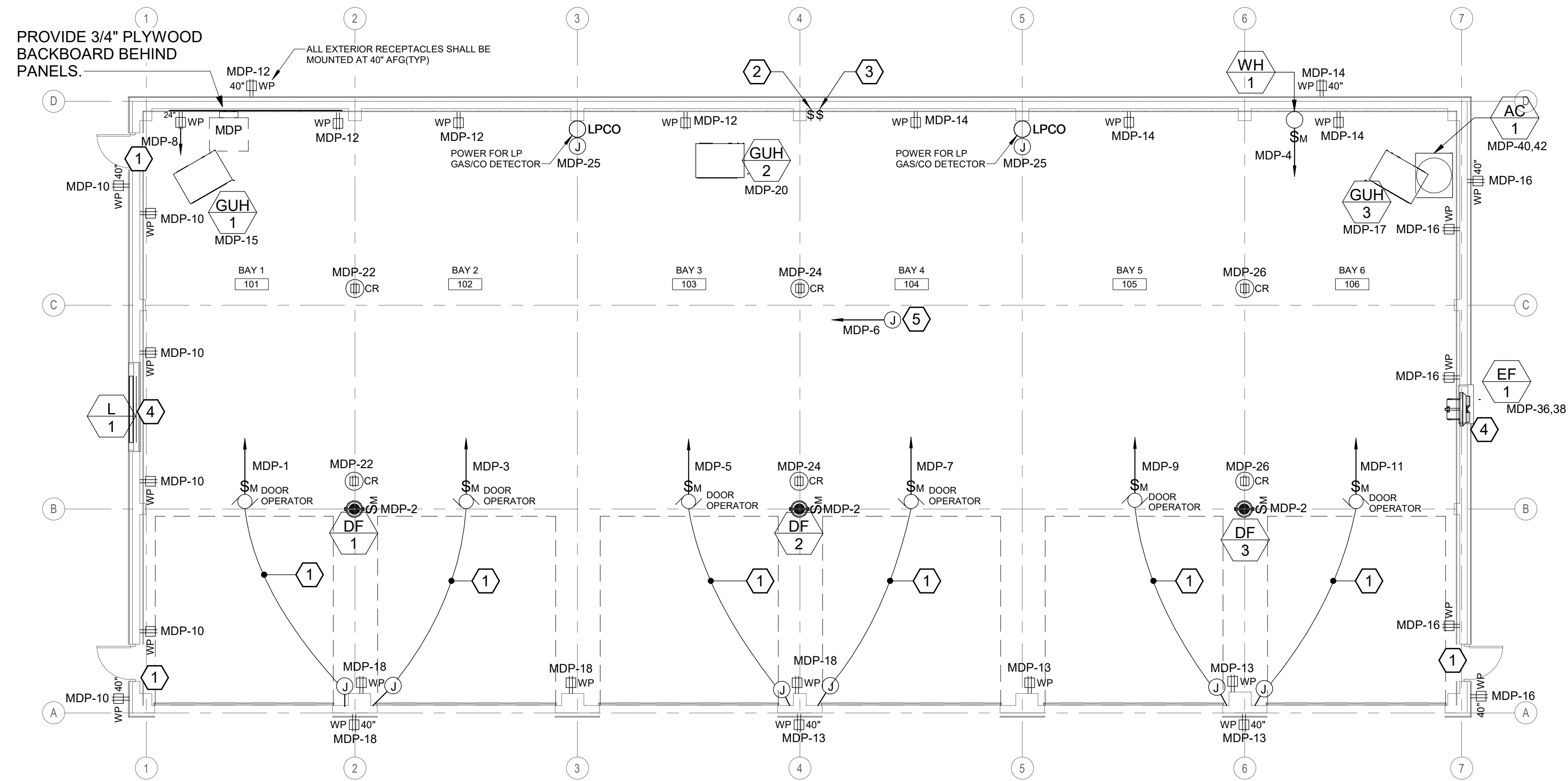
LUMINAIRE SCHEDULE- KEY NOTE 1,2									
TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBER - SEE KEY NOTE 1	MOUNTING	VOLTS	LAMP/LIGHT ENGINE			KEY NOTES
						WATTS	DELIVERED...	TYPE	
P1	8' PENDANT	STARTEK	SPW8S	PENDANT 16' AFF	120V	87	12540	LED 5000K	4,5
W1	WALL MOUNT VERSION OF P1			WALL 16' AFF				LED 5000K	4
W2	EXTERIOR WALL MOUNT LED - PROVIDE INTEGRAL PHOTOCELL FOR ON/OFF OPERATION.	MCGRAW EDISON	GWC-SA1-C-740-1-T4W-BZ-CMP-CEC	WALL 17' AFF	120V	59	7502	LED 4000K	6
W3	4' WALL MOUNT	STARTEK	SSF-4	MOUNT 7'-6" AFF	120V	47	6846	LED 5000K	4
	EXIT LIGHT	SURELITES	LPX		120VAC/ 12VDC	1		LED	3
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 SMOOTH POLYCARBONATE LENS								
5	PROVIDE RIGID STEMS FOR PENDANT MOUNTED FIXTURE.								
6	PROVIDE BATTERY PACK WITH BACK BOX RATED FOR COLD WEATHER ON ALL FIXTURES NOTED FOR EMERGENCY BACK UP USE.								



A1 LIGHTING PLAN		Scale: 1/8" = 1'-0"		Designed by: CATHERINE A. FAUCHER, P.E.								<b>CONTRACT 2024.09</b> <b>YORK VEHICLE STORAGE GARAGE</b> <b>LIGHTING PLAN</b>	
1 ISSUED FOR ADDENDUM No. 4		By: AEI Date: 05/01/2023		ISSUED FOR BID - NOT FOR CONSTRUCTION		160 Veranda Street Portland, Maine 04103 P: 207.221.2260 F: 207.221.2266 Web: www.allied-eng.com		<b>THE GOLD STAR</b> <b>MEMORIAL HIGHWAY</b>		MTA PROJECT MANAGER: Brian A. Taddeo, P.E.		SHEET NUMBER: EL100 CONTRACT: 2024.09 31 OF 32	
No. 1		Revision: ISSUED FOR ADDENDUM No. 4		By: AEI Date: 05/01/2023		Designed: CAF 03/25/24 Checked: CAF 03/25/24		CAD FILE:		MTA PROJECT MANAGER:		SHEET NUMBER: EL100 31 OF 32	

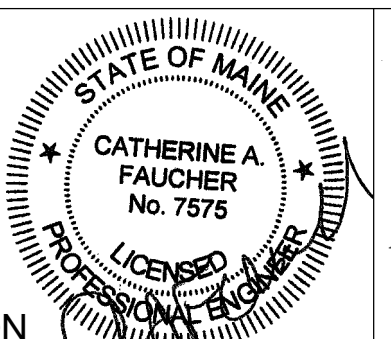


ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT- REFER TO PANEL SCHEDULES FOR CIRCUITING

TAG	DESCRIPTION/ AREA SERVED	VOLTS	PH	LOAD	FLA	MCA	MOPD	DISCONNECT SWITCH				STARTER (NEMA)			WIRING IN CONDUIT (2 #12, 1#12 G UNO)	NOTES	
								FRAME	POLES	FUSE	NEMA...	FBD	SIZE/...	FBD			CBD
AC-1	AIR COMPRESSOR	230	1	7.5 HP	40	40	80	60	2		3R	22	22	22	2 #4, 1 #8G		
GUH-1	GAS UNIT HEATER	120	1	1/2 HP	9.8		20			FWE		23	23	23			
GUH-2	GAS UNIT HEATER	120	1	1/2 HP	9.8		20			FWE		23	23	23			
GUH-3	GAS UNIT HEATER	120	1	1/2 HP	9.8		20			FWE		23	23	23			
DF-1,2,3	DESTRATIFICATION FANS	120	1	106W	1.0		15			MRT		26	23	23			
EF-1	EXHAUST FAN	230	1	2 HP	12.0		25			FWE		23	23	23	3 #12, 1 #12G		
WH-1	ELECTRIC WATER HEATER	120	1	1650W	14.0		20			MRT		23	23	23			
NOTES:														ABBREVIATIONS:			
														FWE	FURNISHED WITH EQUIPMENT		
														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)		



KEYED NOTES:

- ① PROVIDE EMPTY J-BOX 44" ABOVE FINISHED FLOOR AND 1-1/2" EMPTY CONDUIT FOR DOOR CONTROLS. CONTROL WIRING AND CONTROLS BY OTHERS.
- ② DESTRATIFICATION FAN DF-1 thru DF-3 MANUAL SPEED CONTROLS-CONTROLS BY OTHERS.
- ③ EXHAUST FAN EF-1/L-1 VENTILATION TIMER AND VARIABLE SPEED CONTROLS LOCATIONS - CONTROL DEVICES SUPPLIED BY DIVISION 23, WIRED BY DIVISION 26.
- ④ WIRE AND CONNECT L-1/L-1 THROUGH TIMER SWITCH AND VARIABLE SPEED CONTROLLER SUPPLIED BY DIVISION 23. COORDINATE WITH DIVISION 23.
- ⑤ PROVIDE 120 VOLT POWER FOR HVAC CONTROLS AT UNDERSIDE OF DECK. CONTROLS BY OTHERS.

<b>A1 POWER AND SYSTEMS PLAN</b>														
Scale: 1/8" = 1'-0"	Designed by: CATHERINE A FAUCHER, P.E.													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Revision</th> <th>By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ISSUED FOR ADDENDUM No. 4</td> <td>AEI</td> <td>05/17/2023</td> </tr> </tbody> </table>	No.	Revision	By	Date	1	ISSUED FOR ADDENDUM No. 4	AEI	05/17/2023				<p><b>CONTRACT 2024.09</b> <b>YORK VEHICLE STORAGE GARAGE</b> <b>POWER AND SYSTEMS PLAN</b></p>		
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By	Date	Checked:	By	Date										
CAF	03/25/24	CAF	CAF	03/25/24										