Department of Community Affairs
Construction Project Review
Project No: 9142-26
Building Partial Release
Building
Terence Luckie
Released: 9/23/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

Exhibit B-4

NEW JERSEY WATER SUPPLY AUTHORITY
ROOF REPLACEMENT
AT THE
ROUND VALLEY RESERVOIR FORCEMAIN SURGE TANK
4 RED SCHOOL HOUSE ROAD
BLOCK 88 LOT 12
CLINTON TOWNSHIP, HUNTERDON COUNTY, NEW JERSEY

WSA-B27003

SITE AREA PLAN
N.T.S

PROJECT LOCATION PLAN
N.T.S

PROJECT ADDRESS:
4 RED SCHOOL HOUSE ROAD,
LEBANON, NEW JERSEY,
08833

OWNER:
NEW JERSEY WATER SUPPLY AUTHORITY
1851 STATE ROUTE 31
CLINTON, NEW JERSEY 08809
908-638-6121

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Client
NEW JERSEY WATER SUPPLY AUTHORITY
ROUND VALLEY FORCE MAIN SURGE TANK
4 RED SCHOOL HOUSE ROAD
BLOCK 88 LOT 12
CLINTON TOWNSHIP,HUNTERDON
COUNTY,NEW JERSEY

Rev	Date	Drawn	Description	Ch'k'd	App'd

JOHN RUSCHKE
NJ PROFESSIONAL ENGINEER LIC. No. 37148
Signed by:
Date 8-10-2026
DocuSigned by: John Ruschke 3D7869B1F7FA48F...

Designed	B. GARCIA		Eng check	R. FRITZ	
Drawn	P. FLORIMON		Coordination		
Dwg check			Approved	J. RUSCHKE	

Scale at ANSI D	Status	Rev	Security
As Shown	FINAL	Rev. 0	STD

Project Number	B/O	Total	Drawing Number
507104349	1	5	T-01

Title
RV FORCEMAIN SURGE TANK
ROOF REPLACEMENT

COVER SHEET

C:\USERS\SIN99463\APPDATA\LOCAL\PROJECTWISE\WORKDIR\MOTT-USE-PW-14\D0758788\T-01-02.DWG
SAVE DATE/TIME: 8/12/2026 10:27:45 PM

GENERAL NOTES

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH THE REGULATIONS AND GUIDELINES SET FORTH BY ALL AGENCIES HAVING JURISDICTION OVER THE WORK. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE BUILDING CODES AND REGULATIONS AND FOR OBTAINING ALL REQUIRED INSPECTIONS, APPROVALS AND PERMITS, NECESSARY TO PERFORM ALL WORK AND SERVICES HEREIN NOTED OR INDICATED ON THE DRAWINGS. THE OWNER WILL PAY FEES ASSOCIATED WITH OBTAINING PERMITS DIRECTLY TO THE REGULATORY AGENCY. FEES OR PENALTIES ASSESSED BY REGULATORY AGENCIES DUE TO THE NEED FOR REPEAT INSPECTIONS OR OTHER FAILURE TO MEET REQUIREMENTS SHALL BE AT THE CONTRACTOR'S COST.
3. ALL WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST, OR DISTURBANCE TO OCCUPANTS, ADJACENT SITES OR BUILDINGS.
4. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR THE GENERAL PUBLIC AND CONSTRUCTION WORKERS IN AND AROUND THE CONSTRUCTION SITE. ADEQUATE BARRIERS SHALL BE PROVIDED TO EXERCISE CONTROL OF SAFE INGRESS AND EGRESS OF THE WORK AREA. FIRE EXITS SHALL AT NO TIME BE BLOCKED.
5. ALL ITEMS, SYSTEMS AND PRODUCTS NOTED ON THE DRAWINGS AND SPECIFICATIONS SHALL BE NEW UNLESS NOTED AS EXISTING.
6. THE APPROVAL OF SUBMITTALS BY THE ENGINEER SHALL NOT BE CONSTRUED AS A COMPLETE CHECK, BUT WILL INDICATE ONLY THAT THE GENERAL METHOD OF CONSTRUCTION, MATERIALS, DETAILING AND OTHER INFORMATION APPEAR TO BE CONSISTENT W/ INTENT OF CONTRACT DOCUMENTS. APPROVAL WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR, WHICH MAY EXIST IN HIS SUBMITTALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIMENSIONS AND DESIGN OF ADEQUATE CONNECTIONS, DETAILS AND SATISFACTORY CONSTRUCTION OF ALL WORK.
7. SUBMITTALS SHALL BE IN COMPLIANCE WITH CONTRACT REQUIREMENTS AND ACTUAL FIELD CONDITIONS. INCOMPLETE SUBMITTALS WILL NOT BE REVIEWED BY THE ENGINEER AND WILL BE RETURNED TO THE CONTRACTOR. REPRODUCED CONTRACT DRAWINGS WILL NOT BE ACCEPTED AS SHOP DRAWINGS. FIELD VERIFY CONSTRUCTION AND INSTALLATION REQUIREMENTS PRIOR TO SUBMITTAL PREPARATION AND SUBMISSION.
8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE AND SHALL REPORT, ANY DISCREPANCIES TO THE OWNER PRIOR TO STARTING CONSTRUCTION. COMMENCEMENT OF THE WORK BY THE CONTRACTOR SHALL IMPLY HIS ACCEPTANCE OF ALL EXISTING CONDITIONS.
9. DETAILS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTED "TYP." IMPLY ALL CONDITIONS TREATED SIMILARLY.
10. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED ON THE DRAWINGS.
11. THE CONTRACTOR MUST FULLY FAMILIARIZE HIMSELF OF THE CONDITIONS RELATING TO THE CONSTRUCTION AND LABOR UNDER WHICH THE WORK WILL BE PERFORMED AND COMPARE THE DRAWINGS AND SPECIFICATIONS WITH THE WORK IN PLACE. FAILURE TO DO SO WILL NOT RELIEVE CONTRACTOR OF HIS OBLIGATION TO FURNISH ALL LABOR AND MATERIAL NECESSARY TO CARRY OUT THE PROVISIONS OF THE CONTRACT DOCUMENTS AND TO COMPLETE THE CONTEMPLATED WORK FOR THE CONSIDERATION SET FORTH IN HIS BID. EACH CONTRACTOR, IN THE CARRYING OUT OF HIS WORK, SHALL EMPLOY SUCH CONSTRUCTION METHODS OR MEANS THAT WILL NOT CAUSE ANY INTERRUPTIONS OR INTERFERENCE WITHIN THE WORK OF ANY OTHER TRADES.
12. THE BUILDINGS SHALL REMAIN ACCESSIBLE TO THE OWNER AT ALL TIMES.
13. THE CONSTRUCTION AREA SHALL BE THOROUGHLY CLEANED PRIOR, DURING AND AFTER THE CONSTRUCTION.
14. ALL CONSTRUCTION AND OTHER MATERIALS SHALL BE STORED AT THE DESIGNATED STORAGE AREA AS DESIGNATED BY THE OWNER AND ON COMPLETION OF WORK OR AS DEEMED NECESSARY ALL SURPLUS/ REFUSE/ DEBRIS MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF SITE AT NO ADDITIONAL COST TO THE OWNER.
15. SHOULD DISCREPANCIES OCCUR BETWEEN CONTRACT DRAWINGS AND SPECIFICATION THE CONTRACT DRAWINGS IN CONJUNCTION WITH ALL APPLICABLE CODES, STANDARDS, RULES, REGULATIONS, LAWS, ETC. SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
16. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF ALL STATE AND LOCAL BUILDING CODES, OSHA, AND ALL OTHER AGENCIES HAVING JURISDICTION, AND EXCEPT AS MODIFIED HEREIN, TO THE PUBLISHED SPECIFICATIONS AND RECOMMENDED PRACTICES OF THE MANUFACTURERS AND THE APPROPRIATE APPLICABLE STANDARDS.
17. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL REQUIRED FOR A COMPLETE AND WATERTIGHT INSTALLATION, THAT IS FULLY WARRANTIED/GUARANTEED BY THE ROOFING MANUFACTURER. ANY DETAILS OR WORK REQUIRED, BUT NOT SHOWN OR SPECIFIED, ARE TO BE PROVIDED IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S RECOMMENDATIONS AND/OR REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
18. THE CONTRACT DOCUMENTS INCLUDING SPECIFIC INSTALLATION DETAILS SHOWN ON THE DRAWINGS ESTABLISH THE MINIMUM INSTALLATION REQUIREMENTS FOR THIS PROJECT. IF DETAILS SHOWN ARE MORE STRINGENT THAN THE ROOFING MANUFACTURERS STANDARD DETAILS, IN THE SOLE OPINION OF THE OWNER, THE DETAILS SHOWN WILL GOVERN THE INSTALLATION OF THAT PORTION OF WORK. IF THE ROOFING MANUFACTURER'S STANDARD DETAILS ARE MORE STRINGENT THAN DETAILS SHOWN, IN THE SOLE OPINION OF THE OWNER, THE MANUFACTURER'S DETAILS WILL GOVERN THE INSTALLATION OF THAT PORTION OF WORK. ALL WORK IN EXCESS OF THAT SHOWN REQUIRED TO OBTAIN MANUFACTURER CONCURRENCE AND GUARANTEE OF THE INSTALLATION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL REVIEW THE DRAWINGS WITH THE MANUFACTURER, PRIOR TO SUBMITTING THE BID. ANY MANUFACTURER OBJECTIONS TO DETAILS SHOWN SHALL BE SUBMITTED TO THE OWNER, PRIOR TO SUBMITTING A BID.

GENERAL DEMOLITION NOTES

1. ALL EXISTING ROOF SYSTEM MATERIALS ARE TO BE REMOVED DOWN TO THE EXISTING STRUCTURAL DECK, UNLESS NOTED OTHERWISE. EXISTING ROOF SYSTEM MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, UNDERLAYMENT AND ACCESSORIES. THE CONTRACTOR SHALL ONLY REMOVE AS MUCH EXISTING MATERIAL AS CAN BE REPLACED WITH THE COMPLETE NEW ROOF SYSTEM, INCLUDING FLASHINGS, THE SAME DAY OR BEFORE THE ONSET OF INCLEMENT WEATHER, WHICHEVER IS SOONER. ALL DEBRIS IS TO BE REMOVED FROM THE ROOFTOP AND PLACED INTO APPROVED CONTAINERS AS SOON AS POSSIBLE, BUT NOT LATER THEN THE END OF THE WORK SHIFT. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ACCUMULATED DEBRIS ON THE ROOFTOP DOES NOT EXCEED THE SAFE STRUCTURAL CAPACITY OF THE ROOF DECK. ALL FILLED CONTAINERS ARE TO BE REMOVED PROMPTLY FROM THE PROJECT SITE.
2. PRIOR TO START OF DEMOLITION, INSPECT AREAS IN WHICH WORK WILL BE PERFORMED. NOTE EXISTING CONDITIONS OF STRUCTURE SURFACES, EQUIPMENT, OR SURROUNDING PROPERTY THAT COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM SELECTIVE DEMOLITION WORK; FILE WITH OWNER PRIOR TO STARTING WORK.
3. THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITION OF ITEMS OR STRUCTURES TO BE DEMOLISHED OR REMOVED.
4. THE CONTRACTOR SHALL MAKE CONTINUOUS OBSERVATIONS OF THE EXISTING STRUCTURE DURING THE PERFORMANCE OF THE WORK AND SHALL NOTIFY OWNER OF ANY CRACKS, DEFLECTIONS, ETC. THAT MAY REQUIRE FURTHER INVESTIGATION.
5. ALL DEMOLITION ACTIVITIES, CUTTING AND PATCHING REQUIRED IN CONNECTION WITH THE WORK SHALL BE PERFORMED BY MECHANICS OF THE SPECIFIC TRADE INVOLVED AND AS REQUIRED TO EXECUTE EACH LINE OF WORK. ALL PATCHING SHALL BE FINISHED TO MATCH ADJACENT SURFACES WHETHER THEY ARE NEW OR EXISTING TO REMAIN.
6. CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH WALKS AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
7. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES, LATEST EDITIONS.
8. CONTRACTOR SHALL REMOVE AND RELOCATE ALL EXISTING CONSTRUCTION, CONDUITS, PIPING, WIRING, UTILITIES, ETC. THAT MAY INTERFERE WITH NEW CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL EXISTING ITEMS TO REMAIN AND SHALL REPAIR AND/OR REPLACE ANY ITEM DAMAGED DURING THE COURSE OF WORK TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
10. ALL DEMOLITION MATERIALS AND DEBRIS SHALL BE LEGALLY DISPOSED OF OFF THE PROPERTY.

PERMITTING NOTES

1. SUBJECT PROPERTY IS STATE OWNED.
2. PERMITTING IS OBTAINED FROM NJ DEPARTMENT OF COMMUNITY AFFAIRS - STATE BUILDING UNIT AND NOT LOCAL MUNICIPAL CONSTRUCTION OFFICE.
3. PLANS WILL HAVE OBTAINED NJ DCA PLAN REVIEW PRIOR TO BID.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS (BUILDING SUBCODE APPROVAL) AND SCHEDULING/COORDINATING ALL REQUIRED INSPECTIONS..
5. CONTRACTOR IS RESPONSIBLE FOR PERMIT CLOSEOUT - FINAL PAYMENT WILL NOT BE RENDERED BY OWNER UNTIL CONTRACTOR HAS FURNISHED CERTIFICATES OF APPROVAL FROM DCA TO CLOSEOUT ALL PERMITS.

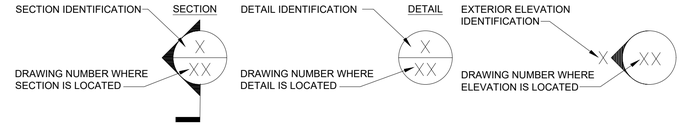
TEST FOR HAZARDOUS MATERIALS:

1. PRIOR TO COMMENCEMENT OF WORK, INSPECT AREAS IN WHICH WORK IS TO BE PERFORMED. PREPARE A LISTING OF DAMAGE TO STRUCTURE, SURFACES, EQUIPMENT OR OF SURROUNDING PROPERTIES WHICH COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM THE WORK.
2. CONTRACTOR SHALL TEST FOR HAZARDOUS MATERIALS PRIOR TO THE START OF CONSTRUCTION. COSTS FOR THIS TESTING SHALL BE INCLUDED IN THE BASE BID. NO ADDITIONAL PAYMENTS WILL BE MADE BY THE OWNER.
3. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND LIABILITY FOR ENSURING COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WORK PRACTICES, HAULING, DISPOSAL, AND PROTECTION OF WORKERS/VISITORS TO THE SITE, AND PERSONS OCCUPYING AREAS ADJACENT TO THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MEDICAL EXAMINATIONS AND MAINTAINING MEDICAL RECORDS OF PERSONNEL AS REQUIRED BY THE APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL HOLD THE OWNER AND OWNER'S REPRESENTATIVE HARMLESS FOR FAILURE ON THE PART OF HIMSELF, HIS EMPLOYEES, OR SUBCONTRACTORS TO COMPLY WITH ANY APPLICABLE WORK, HAULING, DISPOSAL, SAFETY, HEALTH OR OTHER REGULATION.
4. CONTRACTOR SHALL PROVIDE TEST RESULTS TO THE OWNER PRIOR TO REMOVAL WORK. IF HAZARDOUS MATERIALS ARE PRESENT, CONTRACTOR SHALL PREPARE REMEDIATION PLAN AND SAFELY REMOVE, HANDLE, TRANSPORT, AND DISPOSE OF ALL HAZARDOUS MATERIALS IN ACCORDANCE WITH APPLICABLE LAWS, REGULATIONS AND INDUSTRY STANDARDS.

ABBREVIATIONS

AL, ALUM	ALUMINUM	STL	STEEL
CMU	CONCRETE MASONRY UNIT	THK	THICKNESS
CONC	CONCRETE	TYP	TYPICAL
CONT	CONTINUOUS	VIF	VERIFY IN FIELD
DIA	DIAMETER	WD	WOOD
DN	DOWN	W/	WITH
DWG	DRAWING/S		
EXIST	EXISTING		
FL	FLOOR		
FRP	FIBERGLASS REINFORCED PLASTIC		
FT	FOOT/FEET		
GA	GAUGE		
GWB	GYPSUM WALL BOARD		
HW	HARDWARE SET		
MAX	MAXIMUM		
MECH	MECHANICAL		
MTL	METAL		
OC	ON CENTER		
RV	ROOF VENT		

SYMBOLS



DRAWING LIST

DWG. No.	TITLE	SHEET
T-01	COVER SHEET	1 of 5
T-02	DRAWING LIST, GENERAL NOTES, ABBREVIATIONS AND SYMBOLS	2 of 5
A-01	DEMOLITION ROOF PLAN AND DETAIL	3 of 5
A-02	ROOF PLAN	4 of 5
A-03	DETAILS	5 of 5

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Rev	Date	Drawn	Description	Ch'k'd	App'd

JOHN RUSCHKE
NJ PROFESSIONAL ENGINEER LIC. No. 37148
Date 8-10-2026
Signed by:
DocuSigned by: John Ruschke 3D7869B1F7FA48F...

Designed	B. GARCIA		Eng check	R. FRITZ	
Drawn	P. FLORIMON		Coordination		
Dwg check			Approved	J. RUSCHKE	

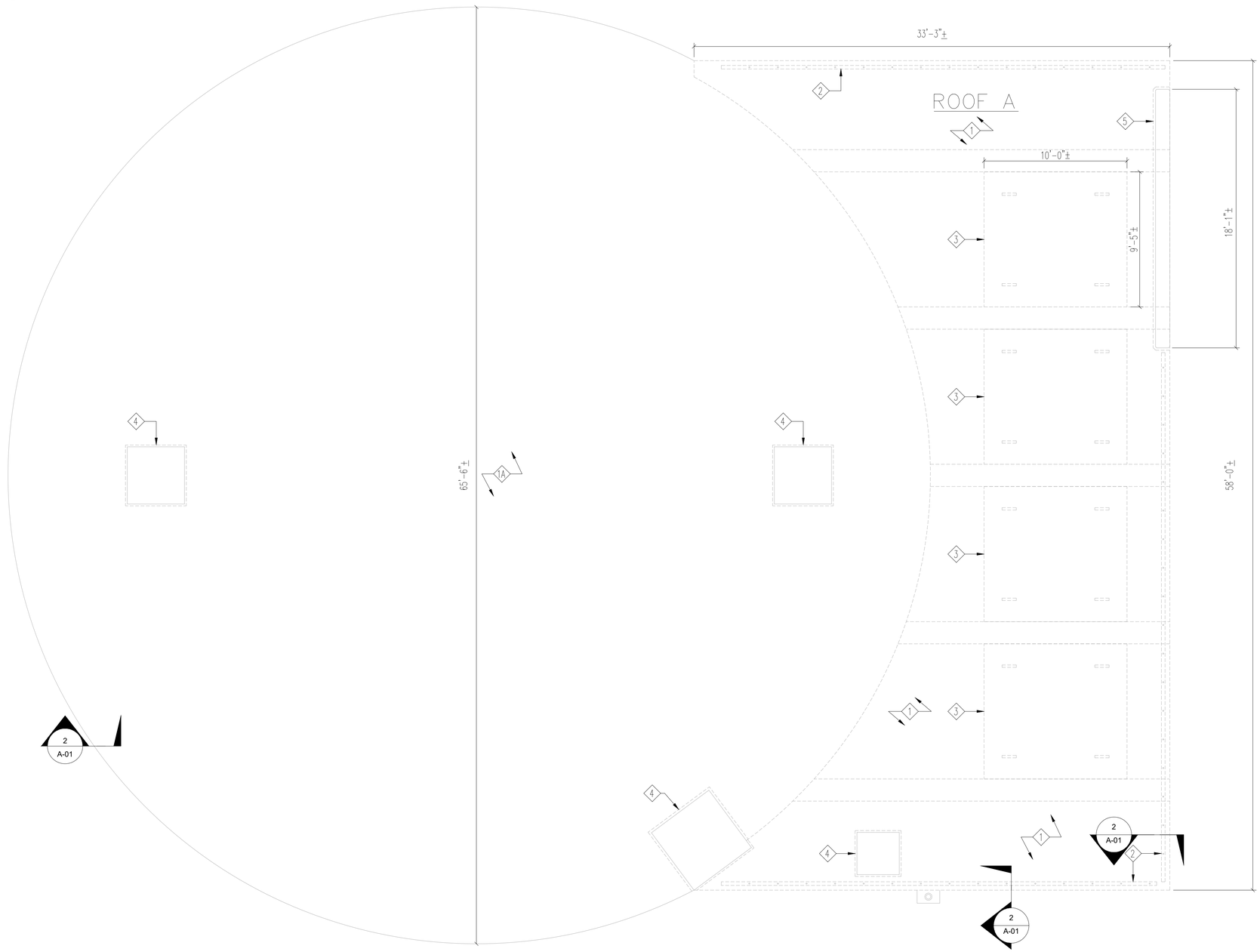
Scale at ANSI D	Status	Rev	Security
As Shown	FINAL	Rev. 0	STD

Project Number	B/O	Total	Drawing Number
507104349	2	5	T-02

Title

RV FORCEMAIN SURGE TANK
ROOF REPLACEMENT

DRAWING LIST, GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

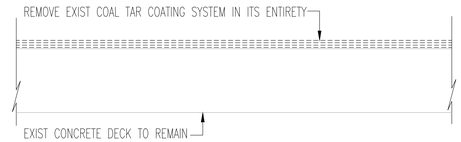


DEMOLITION LEGEND (ALL ITEMS LISTED ARE TYPICAL THROUGHOUT THE PROJECT.)

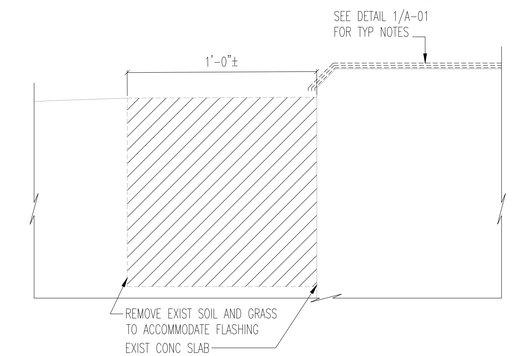
1	REMOVE EXIST COAL TAR COATING SYSTEM IN ITS ENTIRETY TO THE EXIST CONCRETE SLAB TO REMAIN (SEE DETAIL 1/A-01)
1A	REMOVE EXIST CONCRETE COATING SYSTEM IN ITS ENTIRETY TO THE EXIST CONCRETE SLAB TO REMAIN (SEE DETAIL 2/A-01)
2	REMOVE EXIST ALUMINUM STRIP IN ITS ENTIRETY.
3	REMOVE EXIST ACCESS CONCRETE PLANK TO ACCOMMODATE ROOFING SYSTEM DEMOLITION AND ROOF HATCH INSTALLATION. PROVIDE TEMPORARY WATERPROOFING AT ALL OPENINGS AFTER HATCHES ARE REMOVED.
4	REMOVE EXIST VENT CONC CURB FLASHING IN ITS ENTIRETY. VENT CONC CURB TO REMAIN.
5	REMOVE EXIST WALL FLASHING IN ITS ENTIRETY. EXIST WALL TO REMAIN.

EXIST LEGEND

	EXIST CONCRETE PIPE SUPPORT (PARAPRO SHALL NOT BE USED)
	EXIST BEAM (SHOWN FOR REFERENCE)



TYPICAL ROOFING DEMOLITION DETAIL 1 / A-01
SCALE: 3" = 1'-0"



DEMOLITION FOR PMMA BASE FLASHING DETAIL @ GRADE 2 / A-01
SCALE: 3" = 1'-0"

DEMOLITION ROOF PLAN
SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0" (0, 2, 4, 8)
SCALE: 3" = 1'-0" (0, 1)

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RV FORCEMAIN SURGE TANK
ROOF REPLACEMENT

DEMOLITION ROOF PLAN AND DETAILS

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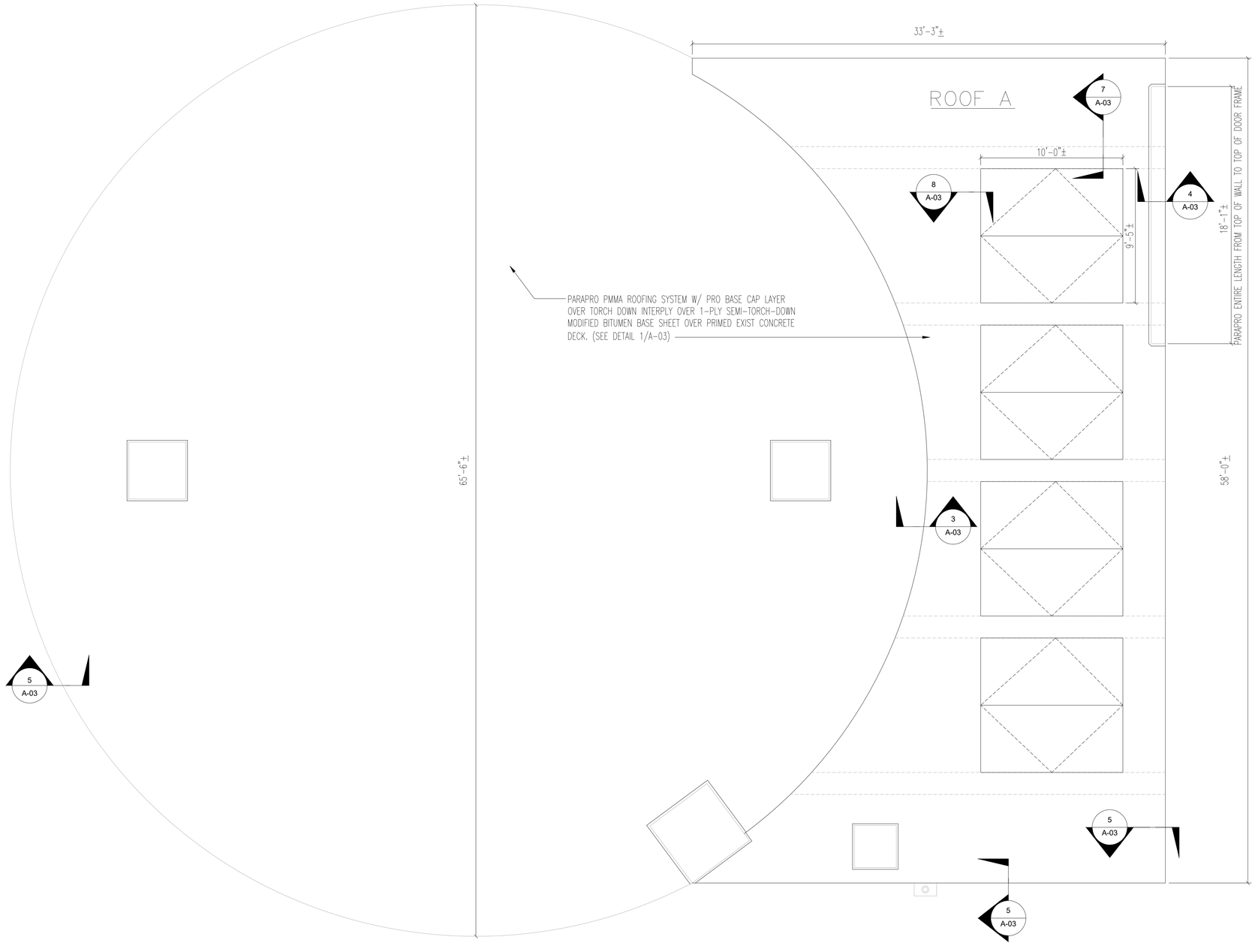

ROOF PLAN
SCALE: 1/4" = 1'-0"

SURGE TANK ROOF		
FACTORY MUTUAL (FM) GLOBAL ROOF NAV ASSEMBLY NO. 266026-266027-0		
COMPONENT	MANUFACTURER	PRODUCT
PMMA ROOFING	SIPLAST	PARAPRO PMMA ROOFING SYSTEM
REINFORCEMENT	SIPLAST	PRO FLEECE
BASE SHEET	SIPLAST	PRO BASE TS
INTERPLY	SIPLAST	IREX 40
ASPHALTIC PRIMER	SIPLAST	PA-917 LS PRIMER

LEGEND (ALL ITEMS LISTED ARE TYPICAL THROUGHOUT THE PROJECT.)

- FLASH EXIST CONC CURB. (SEE DETAIL 2/A-03)
- INSTALL ROOF HATCH (SEE DETAIL 6/A-03)
- FLASH EXIST WALL (SEE DETAIL 4/A-03)

EXIST LEGEND

- EXIST CONCRETE PIPE SUPPORT (PARAPRO SHALL NOT BE USED)
- EXIST BEAM (SHOWN FOR REFERENCE)

CAST-IN-PLACE CONCRETE NOTES

1. REINFORCED CAST-IN-PLACE CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
   A. ALL STRUCTURES SHALL CONFORM TO ACI 318-19, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
2. ALL CONCRETE USED ON THE PROJECT SHALL HAVE A SPECIFIED 28-DAY COMPRESSIVE STRENGTH OF f'c = 5,000 SUCH STRENGTHS SHALL BE DETERMINED BY A TESTING LABORATORY. FOR FURTHER REQUIREMENTS, SEE ASTM C31. CRYSTALLINE WATERPROOFING ADMIXTURE SHALL BE PROVIDED AT ALL LIQUID CONTAINMENT STRUCTURES INCLUDING WALLS, BOTTOM SLAB, AND TOP SLAB.
3. TO PREVENT CRACKING AND DURABILITY PROBLEMS FOR ANY STRUCTURAL ELEMENTS WITH A MINIMUM DIMENSION EQUAL OR GREATER THAN 3'-0", THE GENERAL CONTRACTOR SHALL CONTROL THAT THE MAXIMUM TEMPERATURE ON THE CONCRETE MASS WILL NOT EXCEED THE MAXIMUM ALLOWABLE TEMPERATURE OF 158°F AND THAT THE MAXIMUM TEMPERATURE DIFFERENCE BETWEEN THE CENTER AND SURFACE OF THE MASS CONCRETE SECTION WILL NOT EXCEED THE MAXIMUM ALLOWABLE OF 35°F. MASS CONCRETE SHALL COMPLY WITH ACI 301 REQUIREMENTS.
4. ALL STRUCTURAL MEMBERS SHALL BE CAST MONOLITHICALLY FOR THEIR FULL DEPTH, UNLESS OTHERWISE NOTED.
5. ALL CONCRETE, REGARDLESS OF SPECIFIED DESIGN STRENGTH, SHALL CONTAIN STONE OR GRAVEL AGGREGATE SUCH THAT THE WEIGHT OF THE HARDENED CONCRETE IS 145 POUNDS PER CUBIC FOOT (+3%) WITH THE INCLUSION OF AIR ENTRAINMENT.
6. THE CONCRETE MIX DESIGN SHALL HAVE THE FOLLOWING:
   A. AIR ENTRAINMENT REQUIREMENT SHALL BE 5% ±1%
   B. THE MAX AGGREGATE SIZE SHALL BE 3/4"
   C. A MAXIMUM WATER CEMENT RATIO OF 0.45
   D. THE MIX SHALL HAVE A SLUMP OF 3 ±1"
7. ALL CONCRETE, REGARDLESS OF SPECIFIED DESIGN STRENGTH, SHALL CONTAIN STONE OR GRAVEL AGGREGATE SUCH THAT THE WEIGHT OF THE HARDENED CONCRETE IS 145 POUNDS PER CUBIC FOOT (+3%) WITH THE INCLUSION OF AIR ENTRAINMENT. PRIOR TO THE ORDERING OF ANY CONCRETE, THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS TO THE REGISTERED DESIGN PROFESSIONAL FOR REVIEW.
   A. CONCRETE MIX DESIGNS SHALL BE IN COMPLIANCE WITH ACI 301, SECTION A.
8. FIVE 4"X8" CONCRETE CYLINDERS SHALL BE MADE FOR EACH 50 CUBIC YARDS OR PORTION THEREOF, OF CONCRETE DEPOSITED. TWO CYLINDERS SHALL BE TESTED AT 7 DAYS, TWO SHALL BE TESTED AT 28 DAYS, AND ONE SHALL BE TESTED AS NEEDED.
9. CONCRETE PLACEMENT IN HOT WEATHER SHALL BE IN COMPLIANCE WITH ACI 305.1.
10. CONCRETE PLACEMENT IN COLD WEATHER SHALL BE IN COMPLIANCE WITH ACI 306R.
11. ALL REINFORCEMENT STEEL SHALL HAVE A MINIMUM YIELD STRENGTH, fy = 60 KSI AND SHALL BE NEW DOMESTIC DEFORMED BILLET-STEEL CONFORMING TO ASTM A615, GRADE 60, EXCEPT WHERE WELDING IS INDICATED. WHERE WELDING IS INDICATED, REINFORCEMENT SHALL CONFORM TO ASTM A706 UNLESS NOTED OTHERWISE.
12. BEFORE CONCRETE IS PLACED, CARE SHALL BE TAKEN TO ASSURE THAT ALL EMBEDDED ITEMS ARE FIRMLY AND SECURELY FASTENED IN PLACE TO PREVENT DISPLACEMENT. ANCHOR BOLTS SHALL BE SUPPORTED AND SET BY USING A TEMPLATE WITH THE EMBEDDED ENDS SECURELY TIED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING ANCHOR PLACEMENT AND PLUMPNESS IS IN ACCORDANCE WITH THE CONCRETE DRAWINGS.
13. THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE STANDARD AND SPECIAL ACCESSORIES FOR SUPPORTING, HOLDING AND TYING REINFORCEMENT ADEQUATELY IN ITS PROPER POSITION. THIS WILL INCLUDE SUPPORT BARS OR INDIVIDUAL HIGH CHAIRS FOR TOP REINFORCEMENT AND BOLSTERS FOR BOTTOM REINFORCEMENT AND WIRING ALL REINFORCEMENT IN PLACE. THE GENERAL CONTRACTOR SHALL DESIGN AND DETAIL SPECIAL SUPPORTS AS REQUIRED AND SUBMIT DETAILS AND LAYOUTS FOR REVIEW BY THE REGISTERED DESIGN PROFESSIONAL.
14. ALL REINFORCEMENT STEEL BARS SHALL BE SPLICED AT ALL LAP POINTS, BENT AS REQUIRED, AND DEVELOPED AS PER THE TYPICAL DETAILS. CONTINUOUS TOP REINFORCEMENT SHALL BE SPLICED MIDWAY BETWEEN SUPPORTS AND CONTINUOUS BOTTOM REINFORCEMENT AT THE SUPPORTS, UNLESS OTHERWISE SHOWN ON DRAWINGS.
15. ALL EXPOSED CONCRETE EDGES SHALL BE 3/4" CHAMFERED AS PER THE CONTRACT DRAWINGS.
16. WHEN CASTING NEW CONCRETE AGAINST EXISTING CONCRETE, EXISTING CONCRETE SURFACES SHALL BE ROUGHENED TO PROVIDE A CONCRETE SURFACE PROFILE (CSP) 6 IN ACCORDANCE WITH THE INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) UNLESS NOTED OTHERWISE. SURFACE MUST BE STRUCTURALLY SOUND AND FREE OF OIL, GREASE, DUST,COATINGS, ETCETERA. THE GENERAL CONTRACTOR SHALL REPAIR EXISTING CRACKS IN ACCORDANCE TO THE ACI 224.1R-07 RECOMMENDATIONS. APPLY SIKA ARMATEC 110 EPOCEM BONDING AGENT OR EQUAL,UNLESS NOTED OTHERWISE.
17. WHEN INSTALLING FIELD DRILLED EPOXY ADHESIVE ANCHORING SYSTEMS OR CORE DRILLING EXISTING STRUCTURAL SLABS, COLUMNS, OR WALLS, THE GENERAL CONTRACTOR SHALL PERFORM NON-DESTRUCTIVE TESTING TO LOCATE EXISTING STRUCTURAL REINFORCEMENT THAT WILL NOT BE CUT DURING INSTALLATION. ANY INTERFERENCES THAT MAY AFFECT NEW WORK SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL FOR RESOLUTION.

0 2 4 8
SCALE: 1/4" = 1'-0"

Department of Community Affairs
Construction Project Review
Project No: 9142-26
Building Partial Release
Building
Terence Luckie
Released: 9/23/2026
N.J.S.A. 52:27D-119 ET SEQ., AS AMENDED

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NEW JERSEY WATER SUPPLY AUTHORITY
ROUND VALLEY FORCE MAIN SURGE TANK
4 RED SCHOOL HOUSE ROAD
BLOCK 88 LOT 12
CLINTON TOWNSHIP,HUNTERDON
COUNTY,NEW JERSEY

Rev	Date	Drawn	Description	Ch'k'd	App'd

JOHN RUSCHKE
NJ PROFESSIONAL ENGINEER LIC. No. 37148
Date 8-10-2026
Signed by:
DocuSigned by: John Ruschke
3D7869B1F7FA48F...

Designed	B. GARCIA		Eng check	R. FRITZ	
Drawn	P. FLORIMON		Coordination		
Dwg check			Approved	J. RUSCHKE	

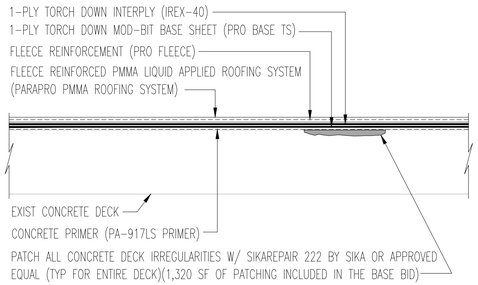
Scale at ANSI D	Status	Rev	Security
As Shown	FINAL	Rev. 0	STD

Project Number	B/O	Total
507104349	4	5

Drawing Number: A-02

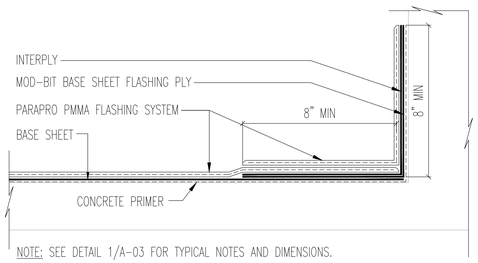
Title
RV FORCEMAIN SURGE TANK
ROOF REPLACEMENT

ROOF PLAN



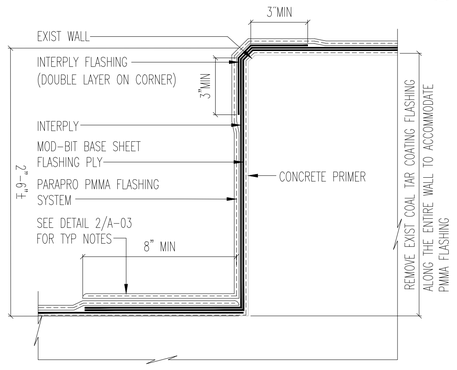
NOTES:
1. FM ROOF NAV ASSEMBLY # 266026-266027-0.

TYPICAL PMMA ROOFING SYSTEM DETAIL — 1 / A-03
SCALE: 3" = 1'-0"

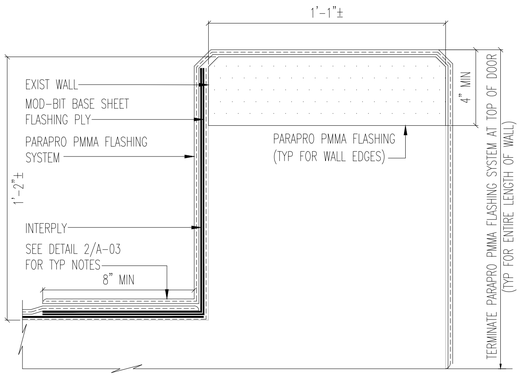


NOTE: SEE DETAIL 1/A-03 FOR TYPICAL NOTES AND DIMENSIONS.

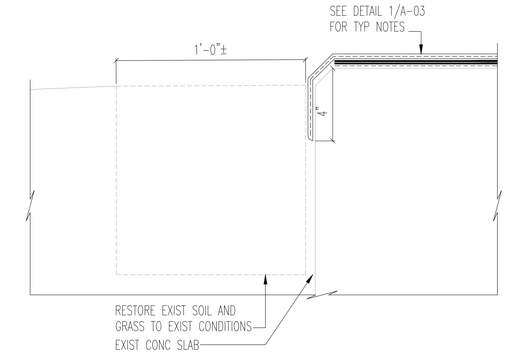
TYPICAL CURB PMMA BASE FLASHING DETAIL — 2 / A-03
SCALE: 3" = 1'-0"



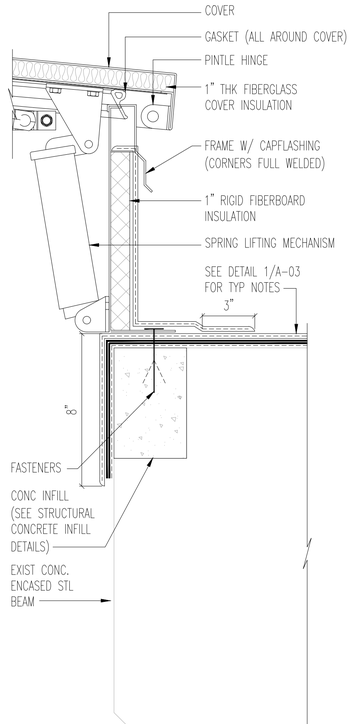
PMMA BASE FLASHING DETAIL — 3 / A-03
SCALE: 3" = 1'-0"



PMMA BASE FLASHING DETAIL @ WALL — 4 / A-03
SCALE: 3" = 1'-0"

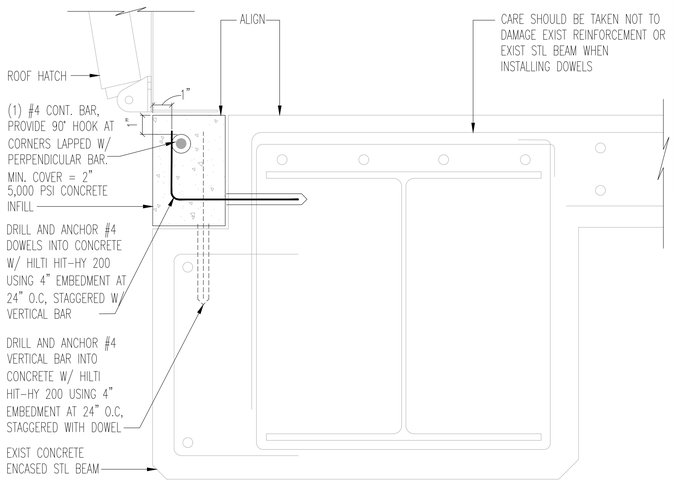


PMMA BASE FLASHING DETAIL @ GRADE — 5 / A-03
SCALE: 3" = 1'-0"

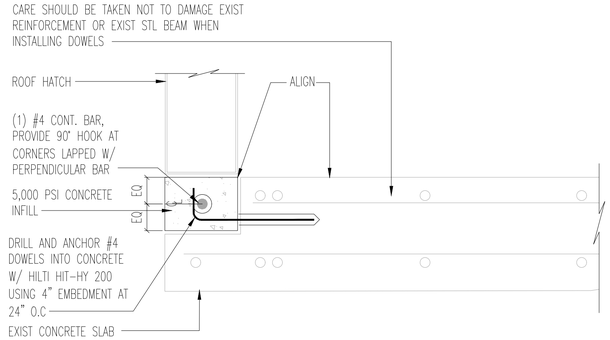


ROOF HATCH DETAIL — 6 / A-03
SCALE: 3" = 1'-0"

NOTE:
CONTRACTOR TO CONFIRM AND FIELD VERIFY DIMENSIONS AND IN COORDINATION WITH ROOF HATCH/ROOFING SYSTEM MANUFACTURERS, SUBMIT SHOP DRAWINGS OF PROPOSED ROOF HATCHES FOR OWNER/ENGINEER APPROVAL. SEE SPECIFICATIONS FOR MORE INFORMATION.



SECTION @ CONCRETE ENCASED STL BEAM — 7 / A-03
SCALE: 3" = 1'-0"



SECTION @ CONCRETE SLAB — 8 / A-03
SCALE: 3" = 1'-0"

NOTE:
1. PRIOR TO CONCRETE PLACEMENT, ROUGHEN SURFACE TO A CONCRETE SURFACE PROFILE CSP 8 AND APPLY SIKA ARMATEC 110 EPOCEM BONDING AGENT

Department of Community Affairs
Construction Project Review
Project No: 9142-26
Building Partial Release
Building
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0 1
SCALE: 3" = 1'-0"

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ROUND VALLEY FORCE MAIN SURGE TANK
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BLOCK 88 LOT 12
CLINTON TOWNSHIP,HUNTERDON COUNTY,NEW JERSEY

Rev	Date	Drawn	Description	Ch'k'd	App'd

JOHN RUSCHKE
NJ PROFESSIONAL ENGINEER LIC. No. 37148
Signed by:
Date 8-10-2026
DocuSigned by: John Ruschke 3D7869B1F7FA48F...

Designed	B. GARCIA		Eng check	R. FRITZ	
Drawn	P. FLORIMON		Coordination		
Dwg check			Approved	J. RUSCHKE	

Project Number	B/O	Total	Scale at ANSI D	Status	Rev	Security
507104349	5	5	As Shown	FINAL	Rev. 0	STD

Drawing Number: A-03

Title
RV FORCEMAIN SURGE TANK
ROOF REPLACEMENT

DETAILS

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SAVE DATE/TIME: 8/12/2026 10:34:02 PM