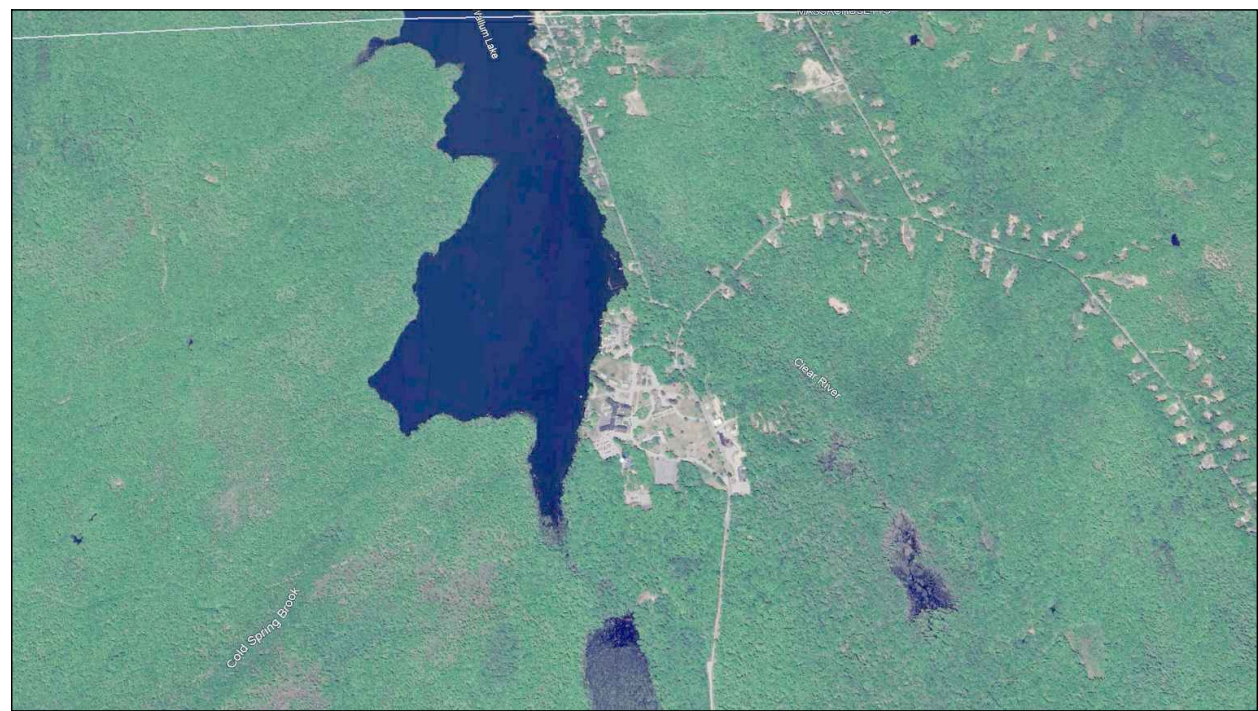


# ZAMBARANO HOSPITAL BUILDING DEMOLITION

2090 WALLUM LAKE ROAD  
BURRILLVILLE, RI 02859



LOCATION MAP



## INDEX OF DRAWINGS

GENERAL CIVIL PLANS:  
C101 – GENERAL NOTES & DETAILS  
C102 – SESC NOTES & DETAILS  
C103 – OVERALL SITE PLAN  
C104 – CONSTRUCTION TRAFFIC PLAN  
C105 – PHOTOGRAPH LOG  
C106 – TUNNEL PHOTOGRAPH LOG & DETAILS  
C107 – ABANDONED STEAM LINE DETAILS

EXISTING CONDITIONS PLANS:  
C108 – BLDGS 18, 19 & 20 EC PLAN  
C109 – BLDGS 6 & 46 EC PLAN  
C110 – BLDGS 2, 3 & 17 EC PLAN  
C111 – BLDGS 4 & 5 EC PLAN  
C112 – BLDG 7 EC PLAN  
C113 – STORAGE AREA EC PLAN

SEDIMENT AND EROSION CONTROL PLANS:  
C114 – BLDGS 18, 19 & 20 SESC PLAN  
C115 – BLDGS 6 & 46 SESC PLAN  
C116 – BLDGS 2 & 3 SESC PLAN  
C117 – BLDGS 4 & 5 SESC PLAN  
C118 – BLDG 7 SESC PLAN

DEMOLITION PLANS:  
C119 – BLDGS 18, 19 & 20 DEMO PLAN  
C120 – BLDGS 6 & 46 DEMO PLAN  
C121 – BLDGS 2, 3 & 17 DEMO PLAN  
C122 – BLDGS 4 & 5 DEMO PLAN  
C123 – BLDG 7 DEMO PLAN  
C124A – SOIL DISPOSAL PLAN  
C124B – AREAS OF CONCERN SOIL DISPOSAL PLAN

PROPOSED CONDITIONS PLAN:  
C125 – BLDG 18, 19 & 20 PC PLAN  
C126 – BLDGS 6 & 46 PC PLAN  
C127 – BLDGS 2, 3 & 17 PC PLAN  
C128 – BLDGS 4 & 5 PC PLAN  
C129 – BLDG 7 PC PLAN  
C130 – STORAGE AREA PC PLAN  
C131 – TUNNELS & NEW STEAM LINE PC PLAN  
C132 – CMU BLOCK WALL DETAIL

MECHANICAL PLANS:  
M000 – LEGEND & NOTES  
M100 – OVERALL SITE PLAN  
M200 – PARTIAL PLANS & SCHEDULES  
M300 – DETAILS  
M301 – DETAILS  
M400 – SPECIFICATIONS

ELECTRICAL PLANS:  
E000 – LEGEND & NOTES  
E100 – OVERALL SITE PLAN  
E200 – PARTIAL LOWER LEVEL PLAN  
& ONE-LINE DIAGRAM  
E201 – PARTIAL SITE PLAN  
E202 – PARTIAL SITE PLAN  
E203 – PARTIAL SITE PLAN  
E204 – PARTIAL SITE PLAN & ONE LINE DIAGRAM  
E300 – DETAILS

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MAY 2025  
BIDDING & CONSTRUCTION DOCUMENTS  
ISSUED FOR BID

Project No. 19018



ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR IS RESPONSIBLE FOR PREPARING AND FOLLOWING A SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP) IN ACCORDANCE WITH OSHA 29 CFR 1910.120. A COPY MUST BE MAINTAINED ONSITE AT ALL TIMES AND BE AVAILABLE FOR EXAMINATION BY THE OWNER AND ENGINEER, IF REQUESTED.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE PEST CONTROL, AND ENGAGE PEST-CONTROL SERVICE TO RECOMMEND PRACTICES TO MINIMIZE ATTRACTION AND HARBORING OF RODENTS, ROACHES, AND OTHER PESTS AND TO PERFORM EXTERMINATION AND CONTROL PROCEDURES AT REGULAR INTERVALS, SUCH THAT THE PROJECT WILL BE FREE OF PESTS AND THEIR RESIDUES AT SUBSTANTIAL COMPLETION. PERFORM CONTROL OPERATIONS LAWFULLY WITH ENVIRONMENTALLY SAFE MATERIALS.

THE CONTRACTOR SHALL PROVIDE A JOB TRAILER FOR THE DURATION OF THE PROJECT AND SHALL SUBMIT PROPOSED LOCATION OF THE JOB TRAILER TO THE OWNER & ENGINEER FOR APPROVAL.

THE CONTRACTOR SHALL ONLY PERFORM SITE WORK BETWEEN THE HOURS OF 07:30 AND 15:30. WORK PERFORMED OUTSIDE OF THESE HOURS SHALL BE APPROVED BY THE OWNER AT LEAST 24 HOURS PRIOR TO COMMENCEMENT OF THE WORK.

THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.06 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.

ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.

THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE AS DIRECTED BY THE ENGINEER.

ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 3 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR CODE 403.0300 "ASPHALT EMULSION TACK COAT."

THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT HIS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED WITH THE PERMISSION OF THE ENGINEER.

UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.

CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.

PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.

THE COORDINATE SYSTEM, IF SHOWN, IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM.

PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAVER FOR CONTROLLING GRADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.

NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.

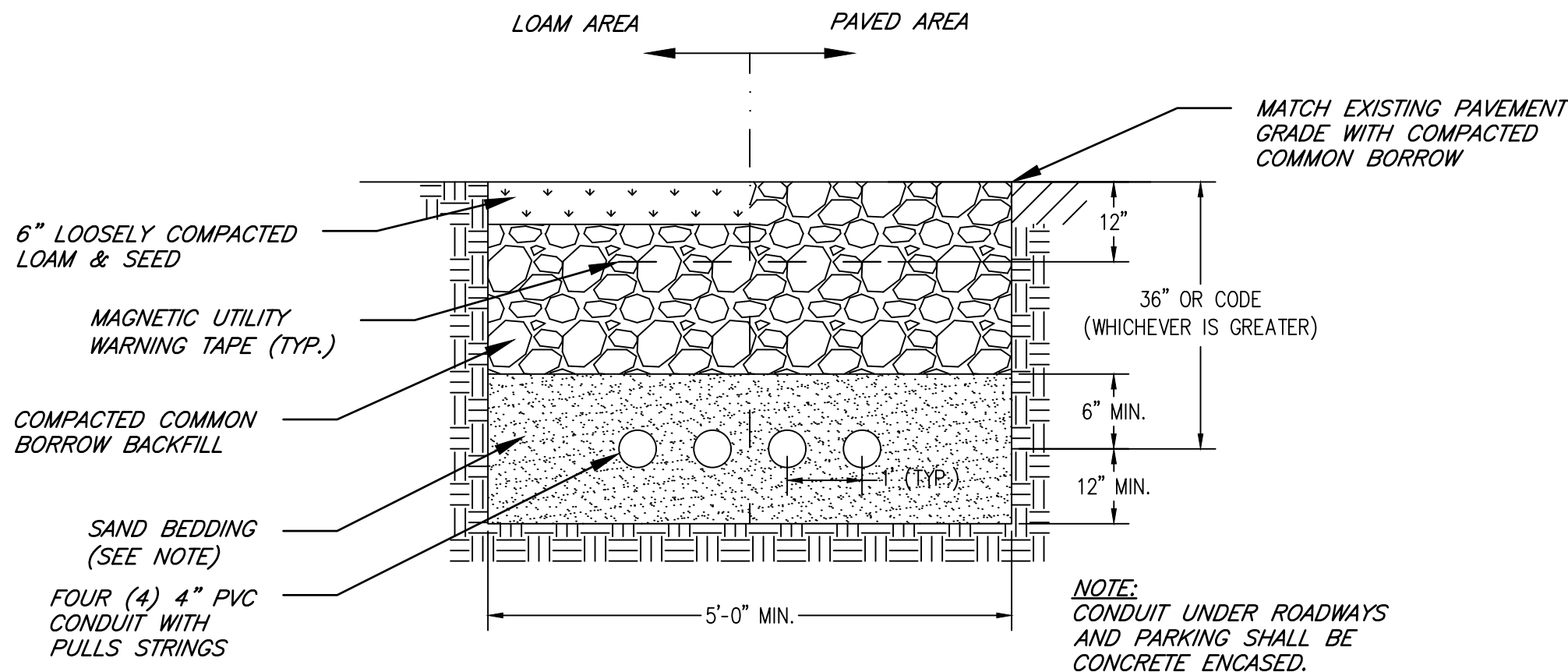
ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.

1. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009 AND, WHEN NECESSARY, BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
4. EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 AND 301 REQUIREMENTS. THIS SHALL INCLUDE PROPORTIONING OF CONCRETE MIX, PLACEMENT OF CONCRETE, AND CURING PROCEDURES.
2. CONCRETE SHALL HAVE A 4000 PSI 28 DAY COMPRESSIVE STRENGTH.
3. PROVIDE TOTAL AIR ENTRAINMENT OF 6% ± FOR ALL CONCRETE EXPOSED TO WEATHER.
4. MAXIMUM WATER/CEMENT RATIO -  $W/C = 0.45$ .
5. CONCRETE REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A615 AND HAVE A MINIMUM YIELD STRENGTH OF 60 KSI.
6. UNLESS NOTED OTHERWISE, PROVIDE 3 INCHES MINIMUM REINFORCING COVER.
7. ALL REBARS SHALL BE EPOXY COATED GRADE 60.

1. *PRIOR TO BRINGING OFF-SITE FILL MATERIAL ONTO THE SUBJECT SITE THE CONTRACTOR SHALL SUBMIT DOCUMENTS FOR REVIEW AND APPROVAL BY THE ENGINEER, CERTIFYING THAT ALL FILL MATERIAL BROUGHT ONTO THE SITE FROM ANOTHER LOCATION AS CLEAN FILL BY ANALYSIS FOR PRIORITY POLLUTANT 13 METALS, POLYCYCLIC AROMATIC HYDROCARBONS, TOTAL PETROLEUM HYDROCARBONS AND VOLATILE ORGANIC COMPOUNDS, ALL ANALYTICAL RESULTS MUST MEET THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM) RESIDENTIAL DIRECT EXPOSURE CRITERIA FOR SOIL.*
2. *COMMON BORROW SHALL BE GRAVELLY IN NATURE AND SHALL CONFORM TO THE MINIMUM DATA AS SPECIFIED BELOW.*
3. *BORROW SHALL CONSIST OF CLEAN, HARD AND DURABLE PARTICLES OR FRAGMENTS, AND SHALL BE FREE FROM CLAY, ORGANIC MATTER, OR OTHER OBJECTIONABLE MATERIAL. GRADATION SHALL CONFORM TO THE REQUIREMENTS BELOW:*

<u>SIEVE SIZE</u>	<u>BY WEIGHT</u>
3"	60-100
1/2"	50-85
3/8"	45-80
#4	40-75
#40	0-45
#200	0-15



NOT TO SCALE

1. ANY EXISTING ITEMS FOUND ON SITE WITHIN THE PROJECT LIMIT LINES THAT ARE NOT REFERRED TO ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. ALL ITEMS DESIGNATED TO BE REMOVED AND DISPOSED (R&D) SHALL BE TAKEN FROM THE SITE AND LEGALLY DISPOSED.
3. DEBRIS OF ANY NATURE SHALL NOT BE ALLOWED TO ACCUMULATE IN THE STREETS, PARKING LOT SIDEWALK AREAS OR GROUNDS SURROUNDING THE PROJECT AREA.
4. FOR ALL HOLES, PITS OR OTHER HAZARDOUS DEPRESSIONS, A TEMPORARY GUARD FENCE SHALL BE IMMEDIATELY ERRECTED FOR THE PROTECTION PEDESTRIANS. The FENCING MATERIAL SHALL BE FREE FROM NAILS, FASTENINGS OR SPLINTERS AND SHALL PRESENT A REASONABLY SMOOTH SURFACE ON THE SIDES OF POSSIBLE CONTACT. SUCH TEMPORARY FENCES SHALL BE LEFT IN PLACE AND SHALL BE PROPERLY MAINTAINED UNTIL THE HOLES, PITS OR DEPRESSIONS HAVE BEEN PROPERLY FILLED.
5. ALL EXISTING VEGETATION (TREES, SHRUBS, GRASSES, ETC.) TO REMAIN SHALL BE PROTECTED FROM INJURY. INDIVIDUAL TREES AND SHRUBS TO BE SAVED WITHIN THE DESIGNATED WORK AREA SHALL BE PROTECTED AS SPECIFIED HEREIN. THE CONTRACTOR SHALL REMOVE ALL PROTECTIVE BARRIERS ONLY AS DIRECT BY THE ENGINEER.
6. THE CONTRACTOR SHALL CAREFULLY PRUNE BRANCHES IN THE WAY OF CONSTRUCTION BY USING ONLY APPROVED METHODS AND TOOLS. THE USE OF AXES FOR TRIMMING OR SPURS FOR CLIMBING WILL NOT BE PERMITTED.
7. DURING THE DEMOLITION PROCESS THE CONTRACTOR SHALL USE SUFFICIENT WATER OR NON-SALVABLE MATERIALS TO PREVENT EXCESSIVE SPREADING OF DUST DURING DEMOLITION OPERATIONS.
8. THE REMOVAL AND DISPOSAL OF ALL MATERIALS SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE STATE AND TOWN ORDINANCES, RULES, AND REGULATIONS.
9. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST THE DAMAGING OF PAVING, SIDEWALKS, UTILITIES OR PRIVATE PROPERTIES AND SHALL PROMPTLY REPAIR AT THE CONTRACTOR'S OWN EXPENSE ANY DAMAGE TO SUCH PAVING, SIDEWALK, UTILITIES OR PRIVATE PROPERTIES TO THE SATISFACTION OF THE OWNER.
10. THE CONTRACTOR SHALL NOTIFY THE PASCOAG FIRE DEPARTMENT (PFD) PRIOR TO THE START OF ABATEMENT ACTIVITIES AND PRIOR TO ANY ENTRY TO THE UNDERGROUND UTILITY TUNNELS. THE UNDERGROUND UTILITY TUNNELS SHALL BE CONSIDERED A CONFINED SPACE AND REQUIRE A CONFINED SPACE ENTRY PERMIT OR AS REQUIRED BY THE PFD.

**BURRILLVILLE--PROVIDENCE COUNTY--RHODE ISLAND**

**ZAMBARANO HOSPITAL**

**BUILDING DEMOLITION**

**GENERAL CONSTRUCTION**

**NOTES & DETAILS**

DATE  
MAY 2025

SCALE  
NTS

SHEET  
**C101**

DESIGNED BY  
ERIC M. DENARDO

CHKD BY  
DATE

REVISION

No.


RGM

DRAWN BY  
ERB

CHECKED BY  
EMD

PROJECT NO.  
19018

**ISSUED FOR BID**



STATE: RHODE ISLAND P.E. 14017



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DRAINAGE AND EROSION CONTROL NOTES:

1.

FOR ALL PROJECTS WITH AT LEAST ONE (1) ACRE OF SOIL DISTURBANCE, THE CONTRACTOR IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE SPECIFIC SWPPP FOR THIS PROJECT. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM (1).
2.

NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
3.

STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODABLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH R.I. STD. 9.1.0 TO STABILIZE.
4.

IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. OFFICE OF ENVIRONMENTAL PROGRAMS.
5.

JUTE MESH SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
6.

SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.

SEEDING TYPE I.

ADHESIVE MULCH STABILIZER
7.

UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
8.

PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
9.

ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
10.

DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
11.

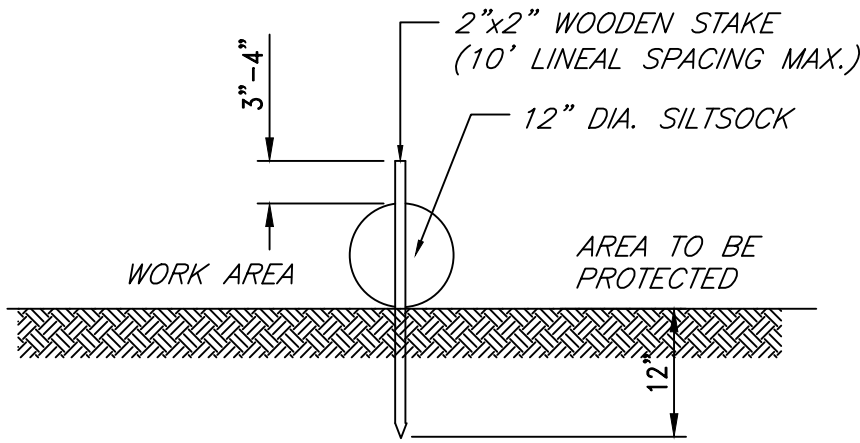
CATCH BASIN RIM GRADES NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
12.

PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL BE KEPT TO A MINIMUM. ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER. NO HEAVY EQUIPMENT MAY ENCROACH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
13.

THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
14.

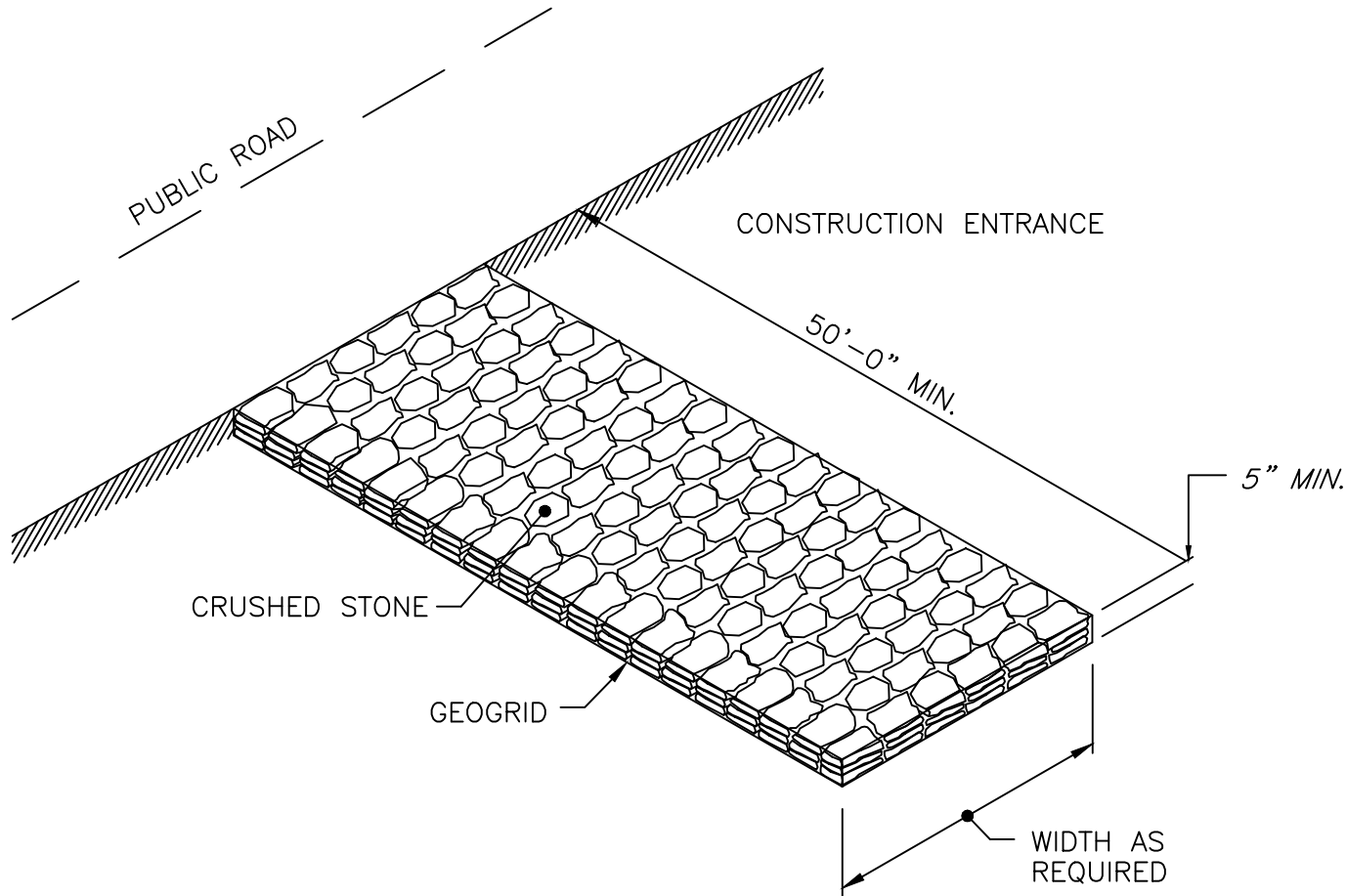
R.I. STD. 9.8.0 BALED HAY INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
15.

WHERE BALED HAY INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.



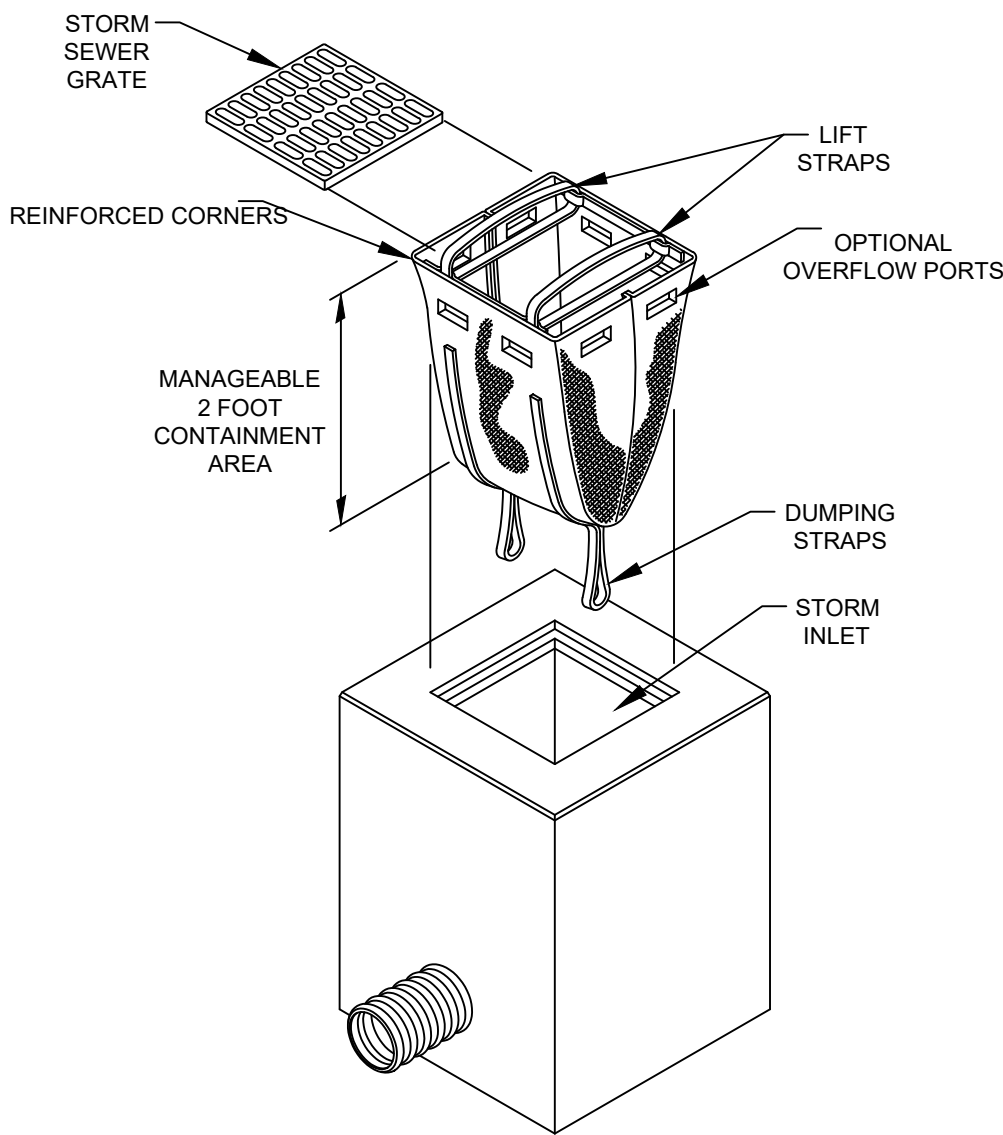
SILT SOCK DETAIL

NOT TO SCALE



CONSTRUCTION ACCESS

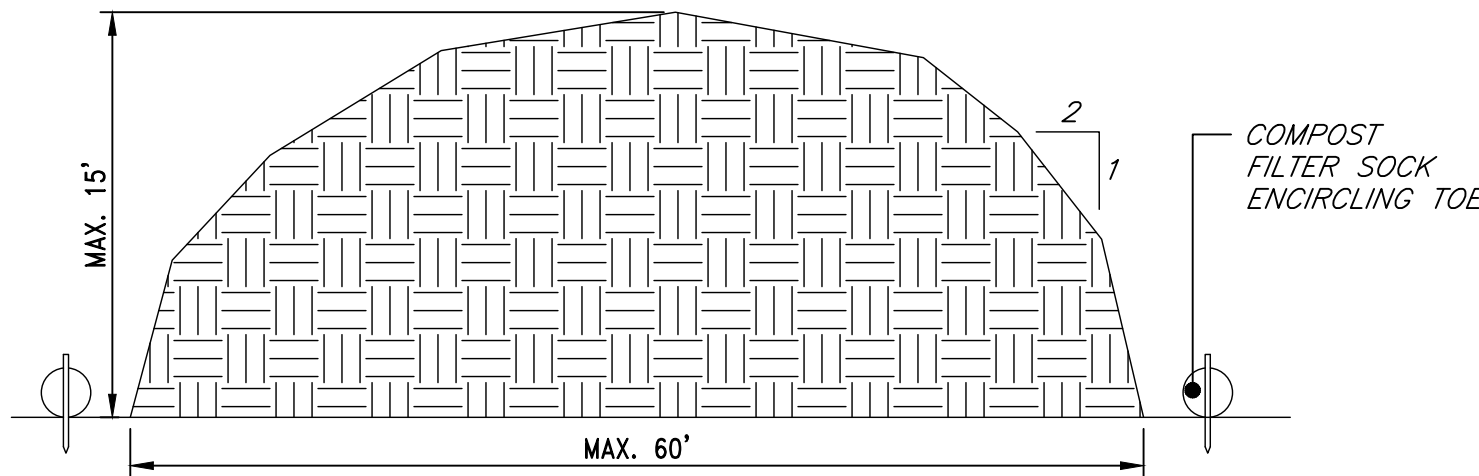
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DETAIL OF INLET SEDIMENT CONTROL DEVICE

CATCH BASIN PROTECTION

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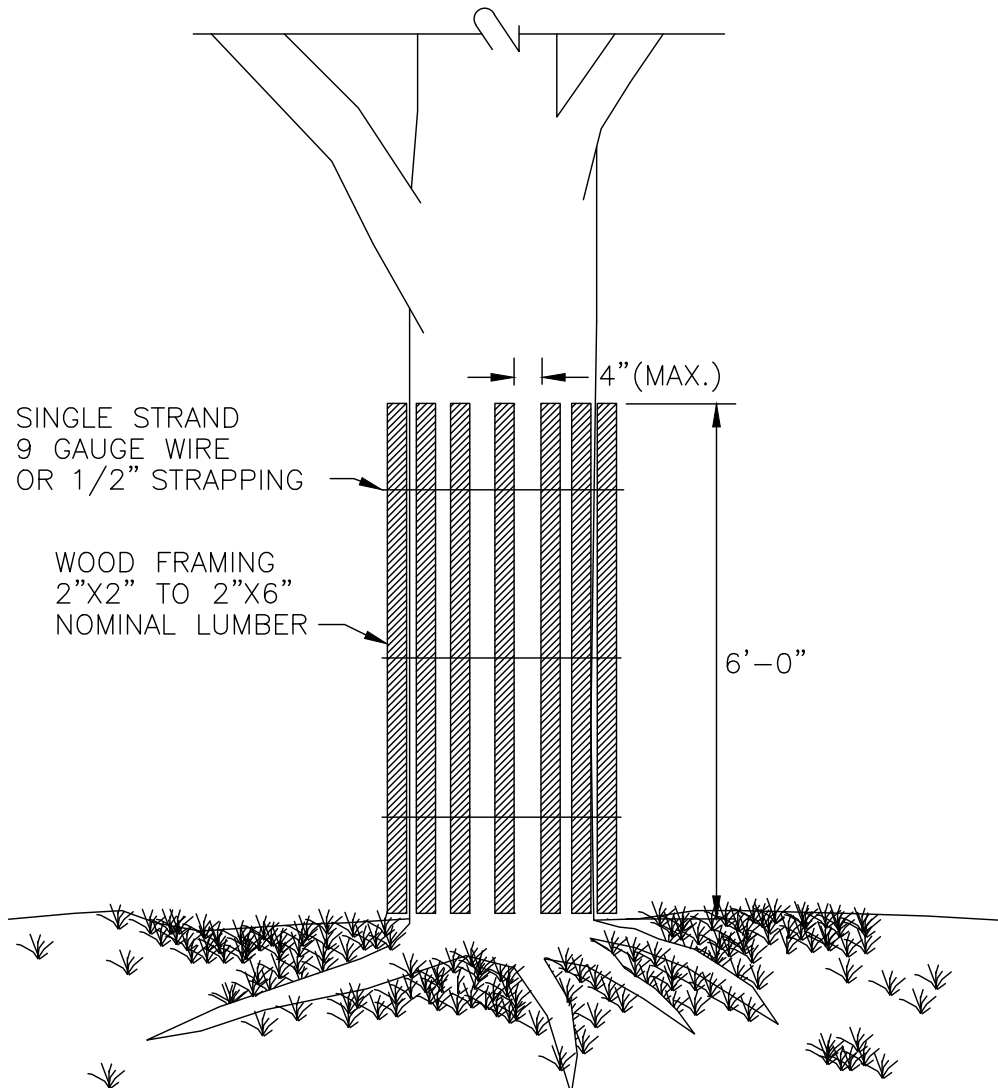


NOTES

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
2. STOCKPILE AREA SHALL NOT EXCEED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT.

ERODIBLE MATERIAL STOCKPILE DETAIL

NOT TO SCALE



TREE PROTECTION DEVICE

NOT TO SCALE

verdantas

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TEL. 401-728-6860



STATE: RHODE ISLAND E. 14017

DESIGNED BY	RCM
DRAWN BY	ERB
CHECKED BY	EMD
PROJECT NO.	19018

CHK'D BY	DATE								
REVISION									
No.									

BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL  
BUILDING DEMOLITION  
SEDIMENT AND EROSION CONTROL  
NOTES & DETAILS**

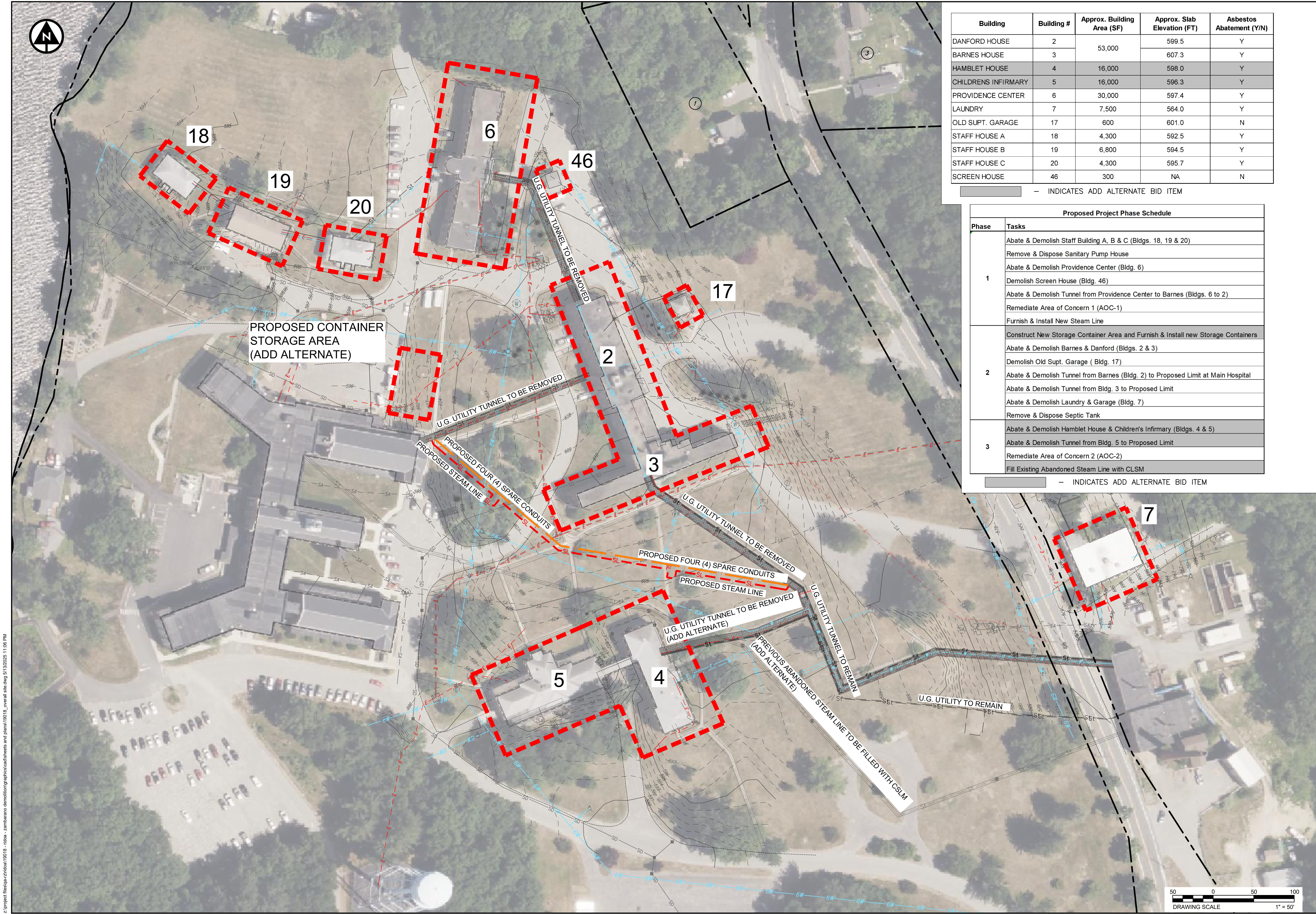
DATE  
MAY 2025

SCALE  
NTS

SHEET  
C102



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Building	Building #	Approx. Building Area (SF)	Approx. Slab Elevation (FT)	Asbestos Abatement (Y/N)
DANFORD HOUSE	2	53,000	599.5	Y
BARNES HOUSE	3		607.3	Y
HAMBLET HOUSE	4	16,000	598.0	Y
CHILDRENS INFIRMARY	5	16,000	596.3	Y
PROVIDENCE CENTER	6	30,000	597.4	Y
LAUNDRY	7	7,500	564.0	Y
OLD SUPT. GARAGE	17	600	601.0	N
STAFF HOUSE A	18	4,300	592.5	Y
STAFF HOUSE B	19	6,800	594.5	Y
STAFF HOUSE C	20	4,300	595.7	Y
SCREEN HOUSE	46	300	NA	N

— INDICATES ADD ALTERNATE BID ITEM

Proposed Project Phase Schedule	
Phase	Tasks
1	Abate & Demolish Staff Building A, B & C (Bldgs. 18, 19 & 20)
	Remove & Dispose Sanitary Pump House
	Abate & Demolish Providence Center (Bldg. 6)
	Demolish Screen House (Bldg. 46)
	Abate & Demolish Tunnel from Providence Center to Barnes (Bldgs. 6 to 2)
	Remediate Area of Concern 1 (AOC-1)
2	Furnish & Install New Steam Line
	Construct New Storage Container Area and Furnish & Install new Storage Containers
	Abate & Demolish Barnes & Danford (Bldgs. 2 & 3)
	Demolish Old Supt. Garage ( Bldg. 17)
	Abate & Demolish Tunnel from Barnes (Bldg. 2) to Proposed Limit at Main Hospital
	Abate & Demolish Tunnel from Bldg. 3 to Proposed Limit
3	Abate & Demolish Laundry & Garage (Bldg. 7)
	Remove & Dispose Septic Tank
	Abate & Demolish Hamblet House & Children's Infirmary (Bldgs. 4 & 5)
	Abate & Demolish Tunnel from Bldg. 5 to Proposed Limit
Remediate Area of Concern 2 (AOC-2)	
Fill Existing Abandoned Steam Line with CLSM	

— INDICATES ADD ALTERNATE BID ITEM

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1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL. 401-728-6860

ERIC M. DENARDO

ERIC MEYER DENARDO

No. 14017

REGISTERED PROFESSIONAL ENGINEER

Civil

STATE: RHODE ISLAND E. 14017

DESIGNED BY

RCM

DRAWN BY

ERB

CHECKED BY

END

CHK'D BY

DATE

REVISION

ISSUED FOR BID

No.

BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND

ZAMBARANO HOSPITAL

BUILDING DEMOLITION

OVERALL SITE PLAN

DATE

MAY 2025

SCALE

1" = 50'

SHEET

C103





DATE	MAY 2025
SCALE	1" = 60'
SHEET	<b>C104</b>

CHK'D BY DATE	DESIGNED BY RGM
	DRAWN BY ERB
	CHECKED BY EMD
	PROJECT NO. 19018

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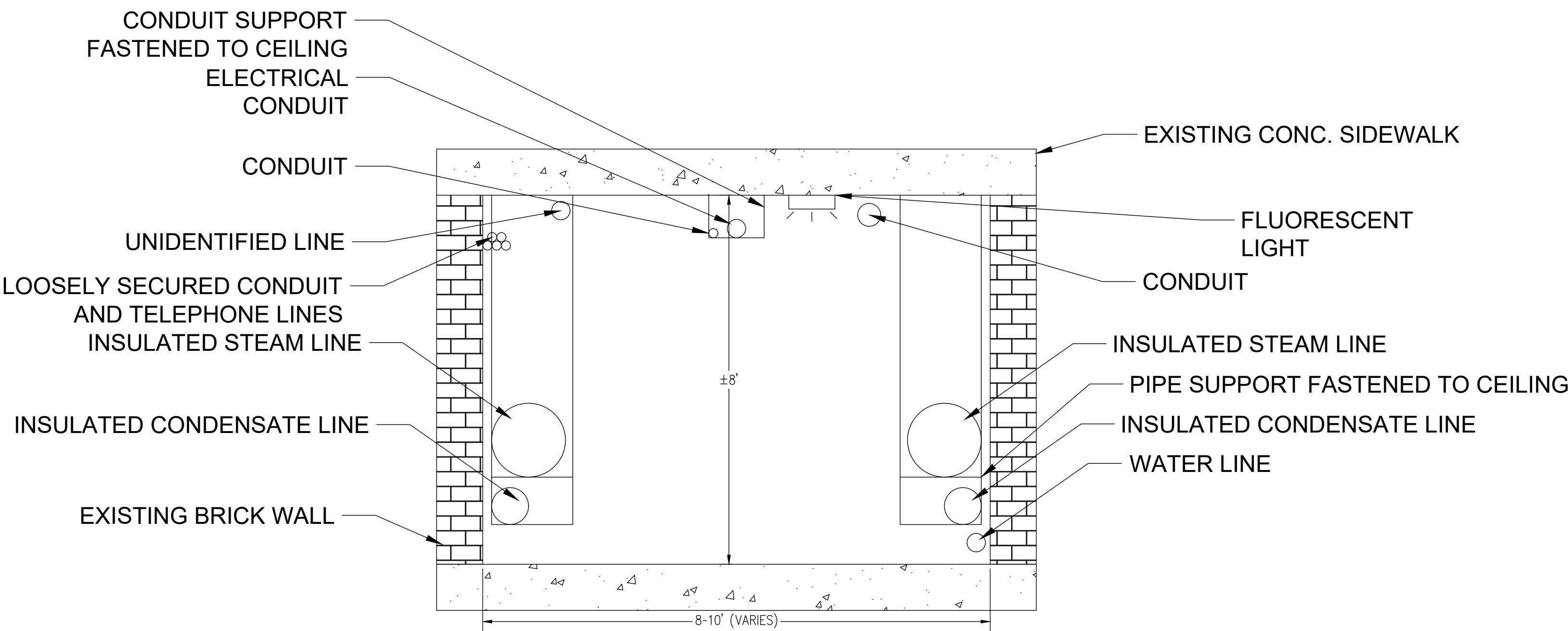
1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL. 401.729.6860



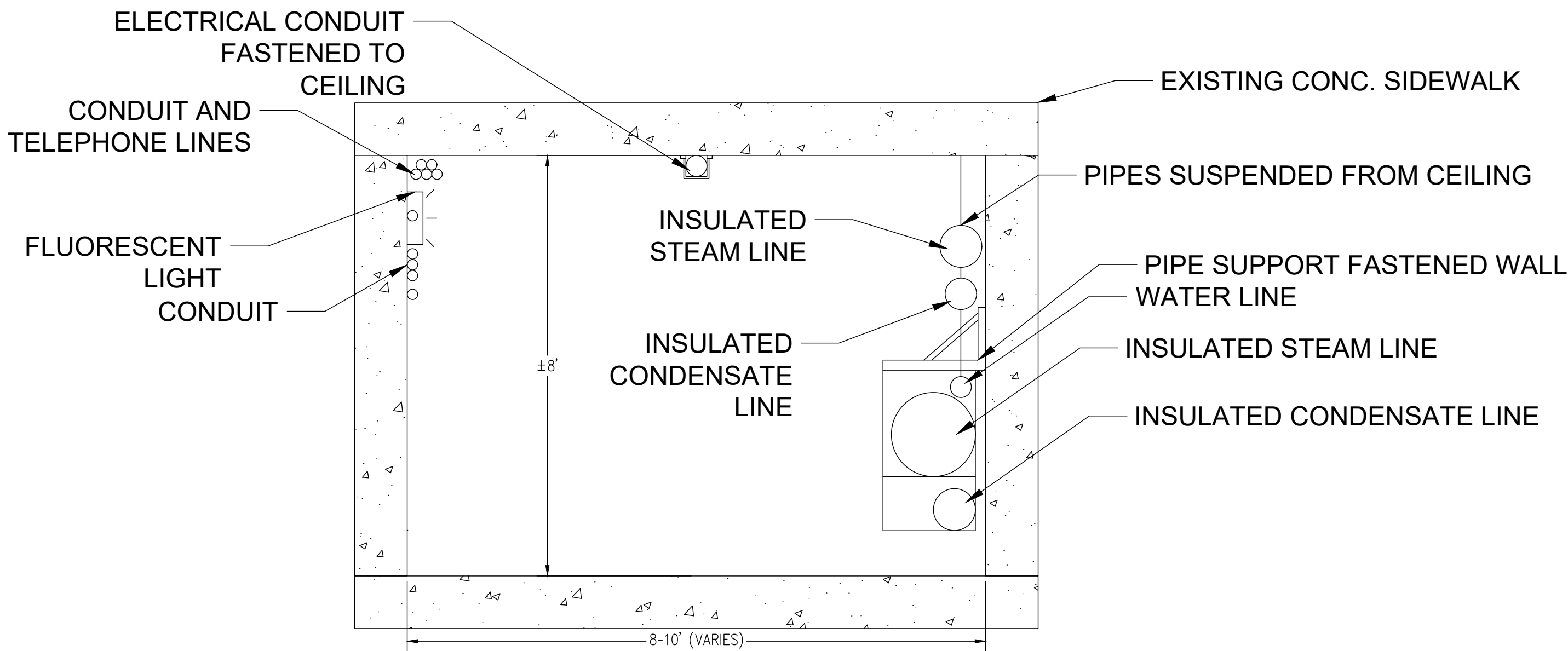




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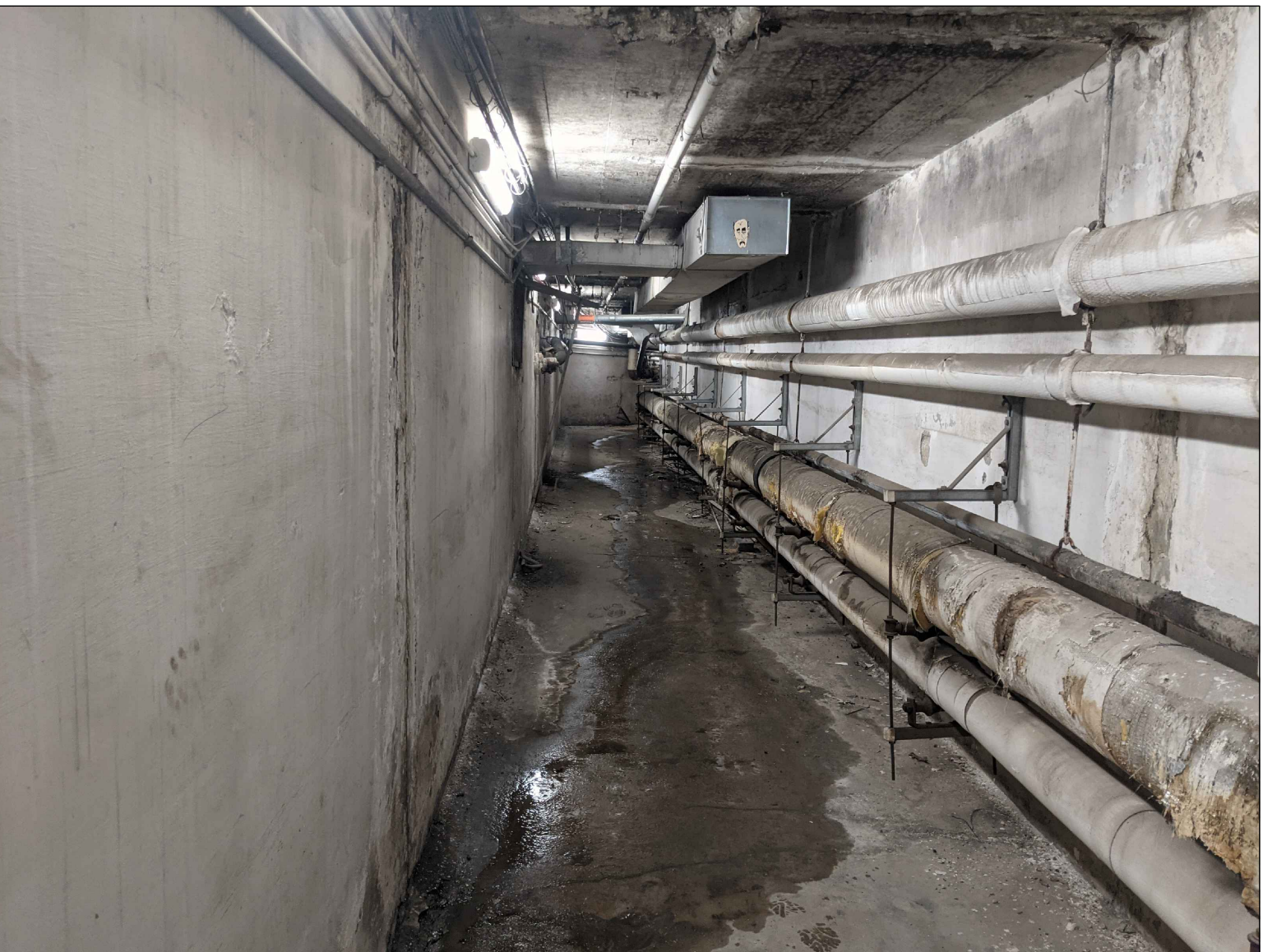
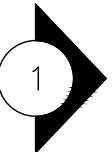
**TYPICAL BRICK TUNNEL CROSS-SECTION**  
NOT TO SCALE



**TYPICAL CONCRETE TUNNEL CROSS-SECTION**  
NOT TO SCALE



TYPICAL VIEW OF BRICK TUNNEL



TYPICAL VIEW OF CONCRETE TUNNEL



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EMD			
PROJECT NO.			
19018			.





TYPICAL VIEW ABANDONED STEAM  
LINE MANHOLE

1



TYPICAL VIEW OF ABANDONED STEAM  
LINE MANHOLE LID

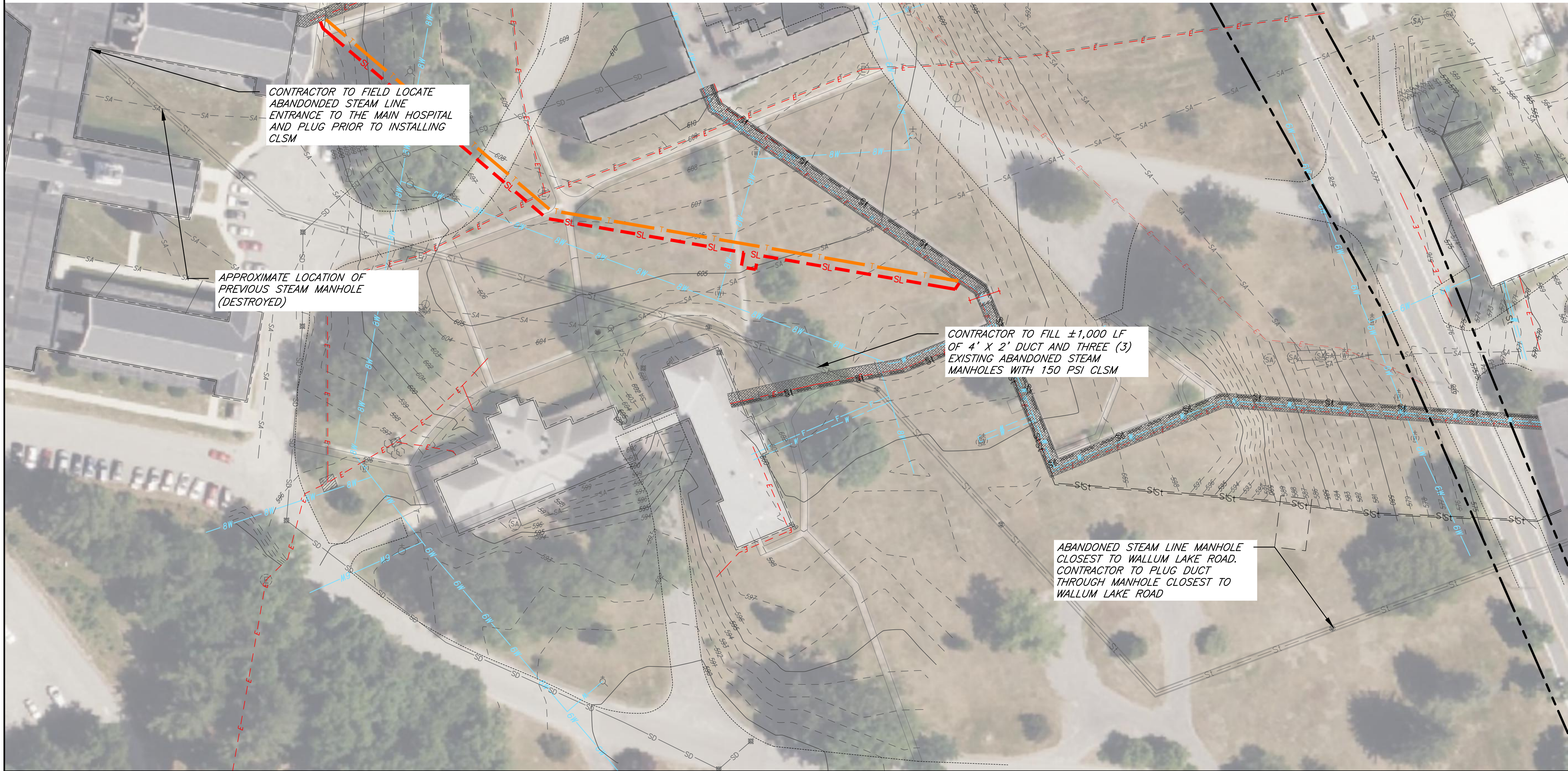
2



TYPICAL VIEW INSIDE MANHOLE OF  
ABANDONED STEAM LINES

3

- BRIEF SUMMARY OF WORK (ADD ALTERNATE)
1. CONTRACTOR TO FIELD LOCATE ABANDONED STEAM LINE DUCT ENTRANCE TO HOSPITAL.
  2. PLUG ABANDONED STEAM LINE DUCT WITHIN THE MAIN HOSPITAL BUILDING.
  3. PLUG ABANDONED STEAM LINE DUCT RUNNING TOWARDS WALLUM LAKE ROAD FROM STEAM MANHOLE CLOSEST TO WALLUM LAKE ROAD
  4. FILL  $\pm 1,000$  LF OF 4' X 2' ABANDONED STEAM LINE DUCTS AND THREE (3) MANHOLES WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM) EXCAVATABLE FLOWABLE FILL WITH A COMPRESSIVE STRENGTH OF 150 PSI AT 28 DAYS.



BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL**  
**BUILDING DEMOLITION**  
**ABANDONED STEAM LINE DETAILS**

DATE  
MAY 2025

SCALE  
1" = 40'

SHEET  
**C107**

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19018



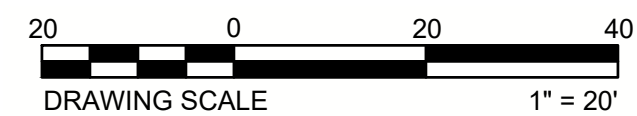
ERIC M. DENARDO

STATE: RHODE ISLAND E. 14017

**verdantas**

1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL. 401-728-6860









ERIC MEYER DeNARDO



NBS  
14017

STATE: RHODE ISLAND P.E. 14017

[illegible]

**ISSUED  
FOR  
BID**

**BURRILLVILLE~PROVIDENCE COUNTY~RHODE ISLAND**

**ZAMBARANO HOSPITAL**

**BUILDING DEMOLITION**

**PROV. CENTER & SCREENED HOUSE - BLDGS**

**EXISTING CONDITIONS PLAN**

DATE	MAY 2025
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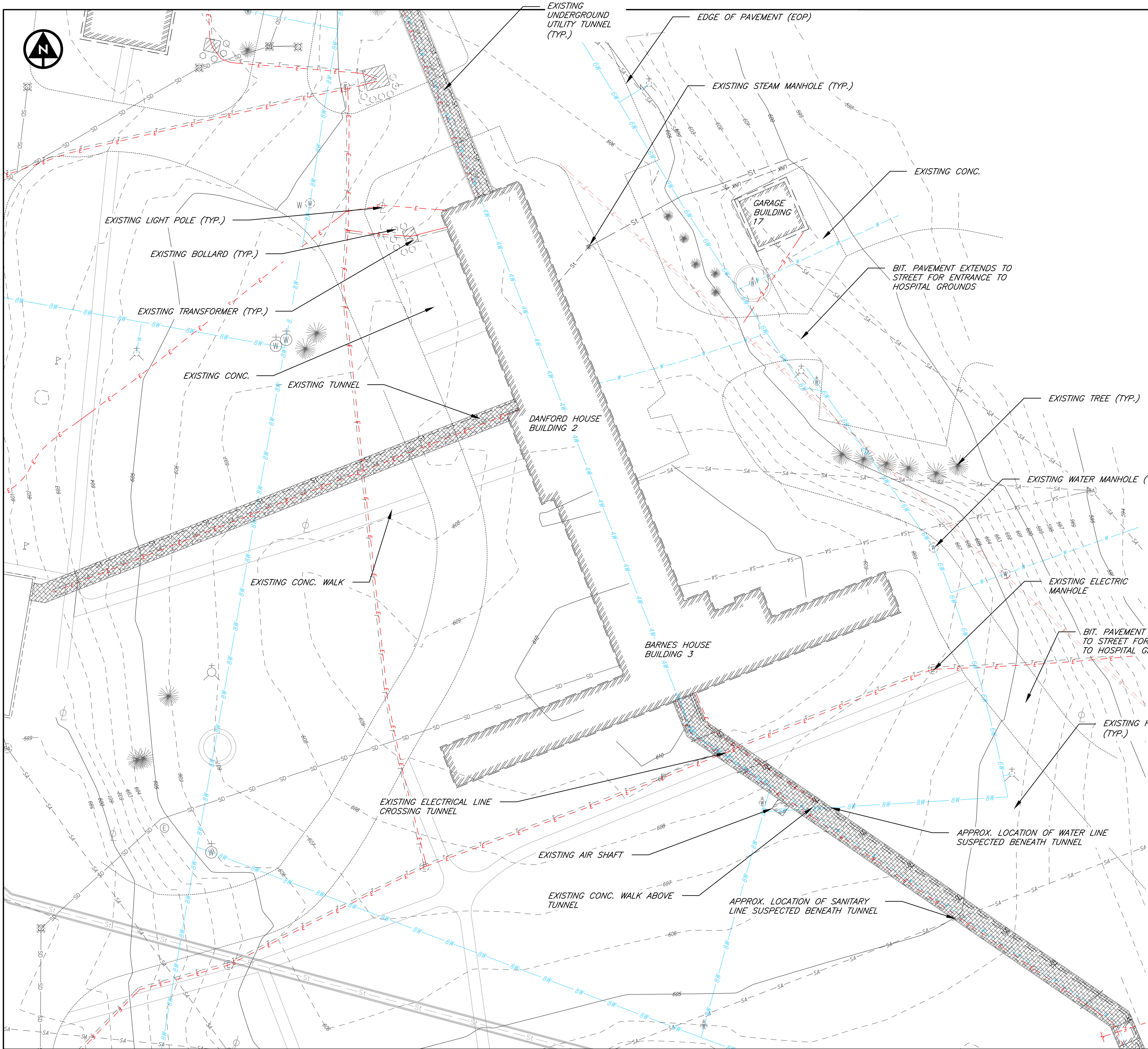
SCALE  $1" = 20'$

SHEET

**C109**



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BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZABARANO HOSPITAL  
BUILDING DEMOLITION**  
DANFORD & BARNES HSE & GARAGE - BLDGS 2, 3 & 17  
EXISTING CONDITIONS PLAN

DATE MAY 2025  
SCALE 1" = 20'  
SHEET **C110**

No.

REVISION

CHK'D BY  
DATE

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RCM

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ERB

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PROJECT NO.  
19018

ERIC M. DENARDO

ERIC MEYER DENARDO

No. 4017

REGISTERED  
PROFESSIONAL ENGINEER

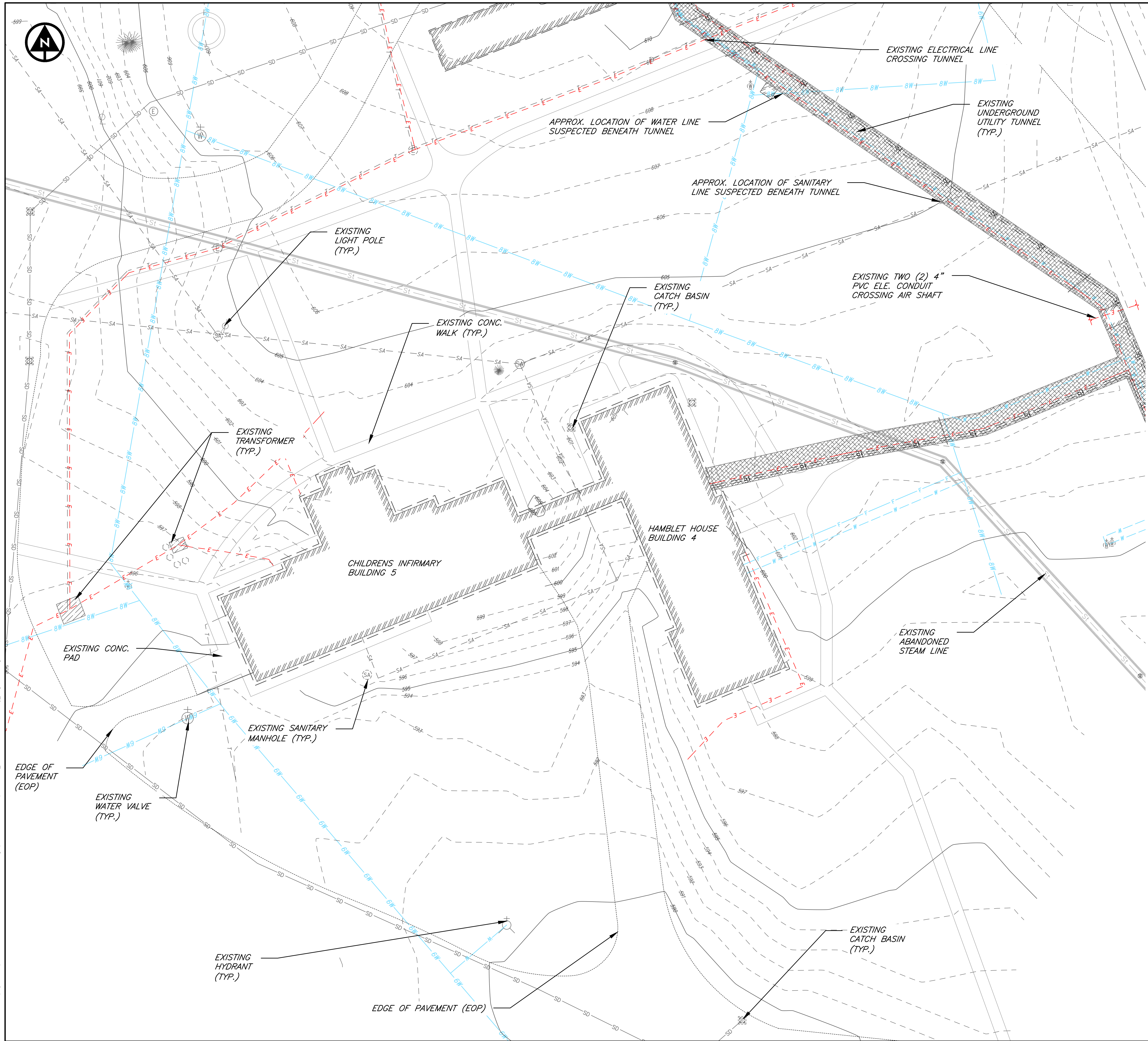
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**verdantas**

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PAWTUCKET, RI 02860  
TEL. 401-728-6860



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BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL  
BUILDING DEMOLITION**  
HAMLET HSE & CHILDRENS INFIRMARY - BLDGS 4 & 5  
EXISTING CONDITIONS PLAN

DATE MAY 2025  
SCALE 1" = 20'  
SHEET **C111**

No.	REVISION	CHK'D BY DATE	DESIGNED BY RCM
	<b>ISSUED FOR BID</b>		

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ERB  
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EMD  
PROJECT NO.  
19018



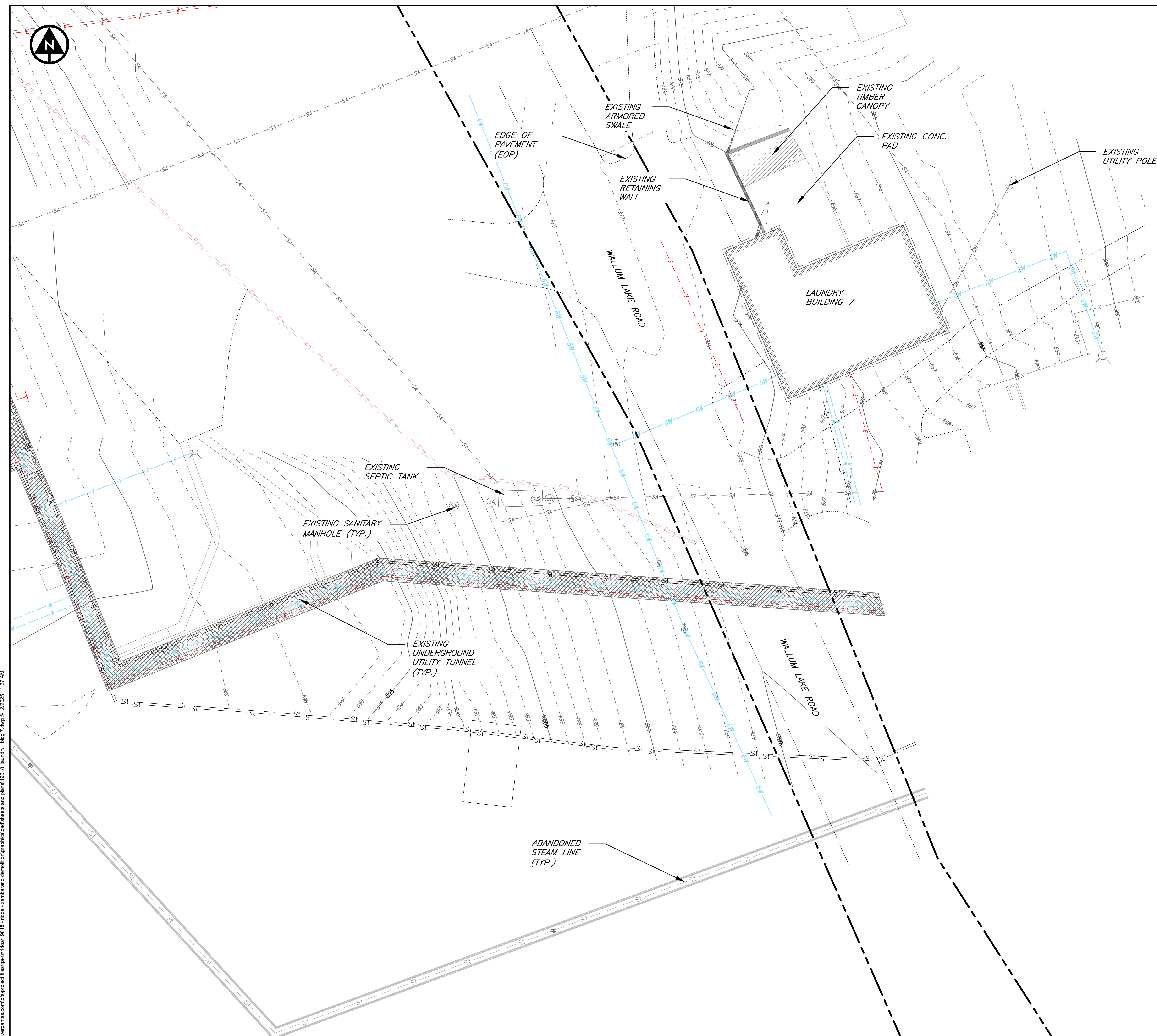
ERIC M. DENARDO

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1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL. 401-728-6860

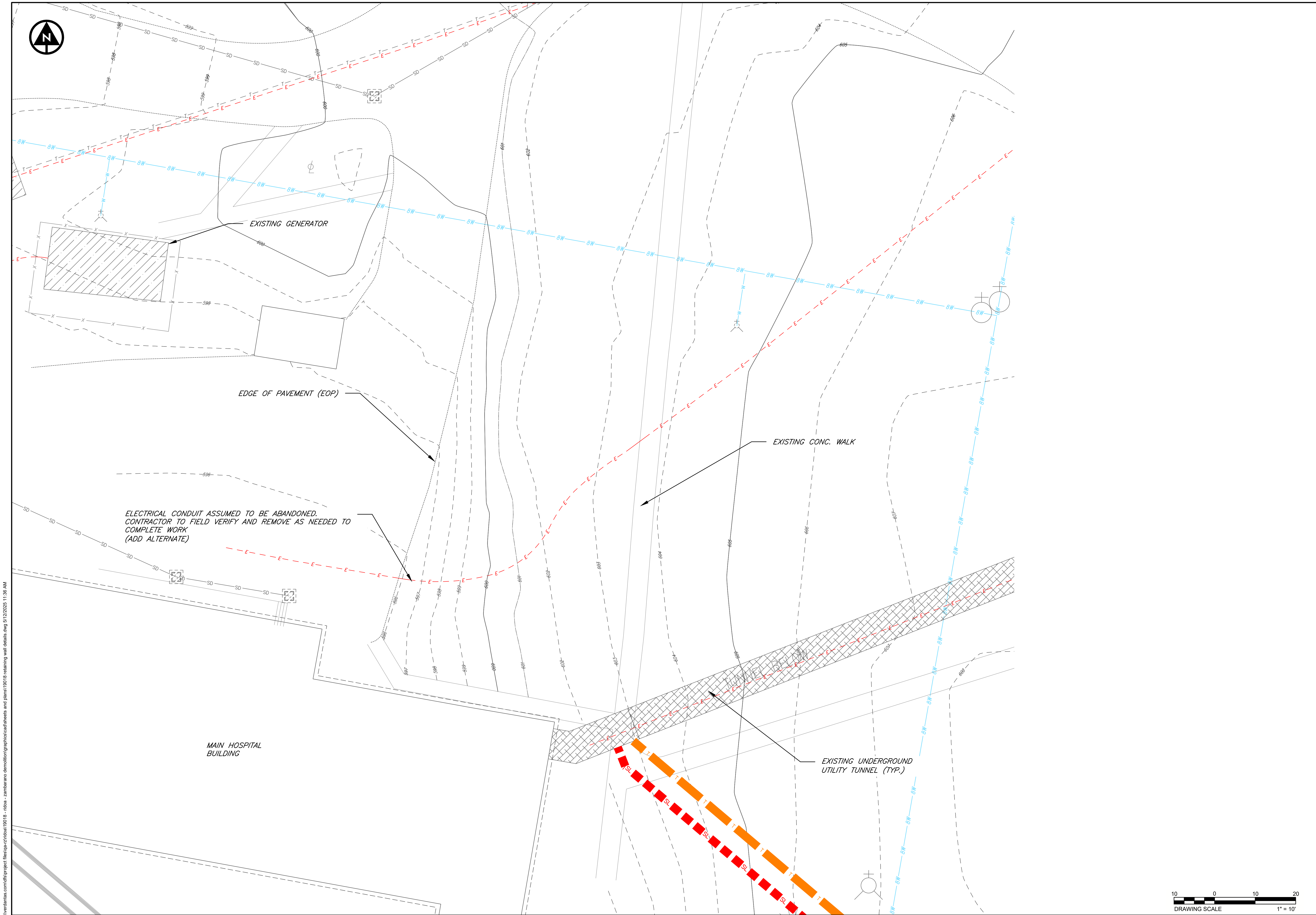
STATE: RHODE ISLAND, E. 14017







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BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL  
BUILDING DEMOLITION**  
STORAGE AREA  
EXISTING CONDITIONS PLAN

DATE  
MAY 2025

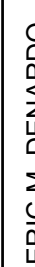
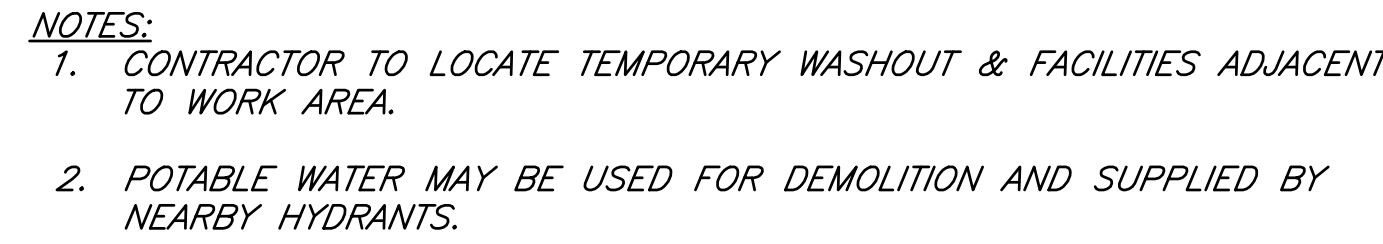
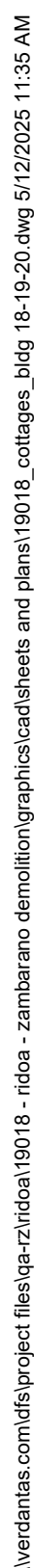
SCALE  
1" = 10'

SHEET  
**C113**

No.	REVISION	CHK'D BY DATE	DESIGNED BY RCM
	<b>ISSUED FOR BID</b>		

ERIC M. DENARDO  
ERIC MEYER DENARDO  
No. 14017  
REGISTERED  
PROFESSIONAL ENGINEER  
STATE OF RHODE ISLAND  
STATE: RHODE ISLAND E. 14017





STATE: RHODE ISLAND P.E. 14017

No.	REVISION	CHKD BY DATE	DESIGNED BY RGM
			DRAWN BY ERB
			CHECKED BY EWD
			PROJECT NO. 10018

**BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
ZAMBARANO HOSPITAL  
BUILDING DEMOLITION  
STAFF HOUSES A, B, & C - BLDGS 18, 19, & 20  
SEDIMENT AND EROSION CONTROL PLAN**

DATE MAY 2025

SCALE 1" = 20'

SHEET

**C114**



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TEMPORARY FENCE TO PROTECT  
EXISTING WOOD FENCE

PROPOSED 12-INCH  
STRAW WATTLE ALONG  
CHAIN LINK FENCE (TYP.)

PROPOSED 6' HIGH  
TEMPORARY CHAIN  
LINK SECURITY  
FENCE

LIMITS OF  
DISTURBANCE  
(LOD)

PROVIDENCE CENTER  
BUILDING 6

SCREENED HOUSE  
BUILDING 46

WATTLES AROUND ALL SOIL  
STOCKPILE AREAS (TYP.)

SOIL STOCKPILE  
AREA (TYP.)

CONTRACTOR  
TO INSTALL  
DROP-INET  
PROTECTION

RI STD 9.9.0  
CONSTRUCTION  
ACCESS

CONSTRUCTION  
ACCESS GATE

NOTES:

1. CONTRACTOR TO LOCATE TEMPORARY WASHOUT & FACILITIES ADJACENT TO WORK AREA.
2. POTABLE WATER MAY BE USED FOR DEMOLITION AND SUPPLIED BY NEARBY HYDRANTS.



BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND

**ZAMBARANO HOSPITAL  
BUILDING DEMOLITION**

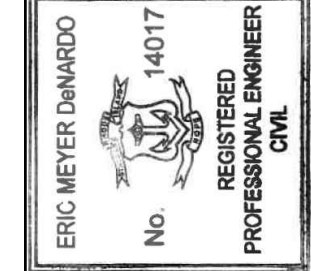
**PROV. CENTER & SCREENED HOUSE - BLDGS 6 & 46  
SEDIMENT AND EROSION CONTROL PLAN**

DATE  
MAY 2025

SCALE  
1" = 20'

SHEET  
**C115**

ERIC M. DENARDO



STATE: RHODE ISLAND E. 14017

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RCM

DRAWN BY

ERB

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END

PROJECT NO.

19018

REVISION

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FOR  
BID**

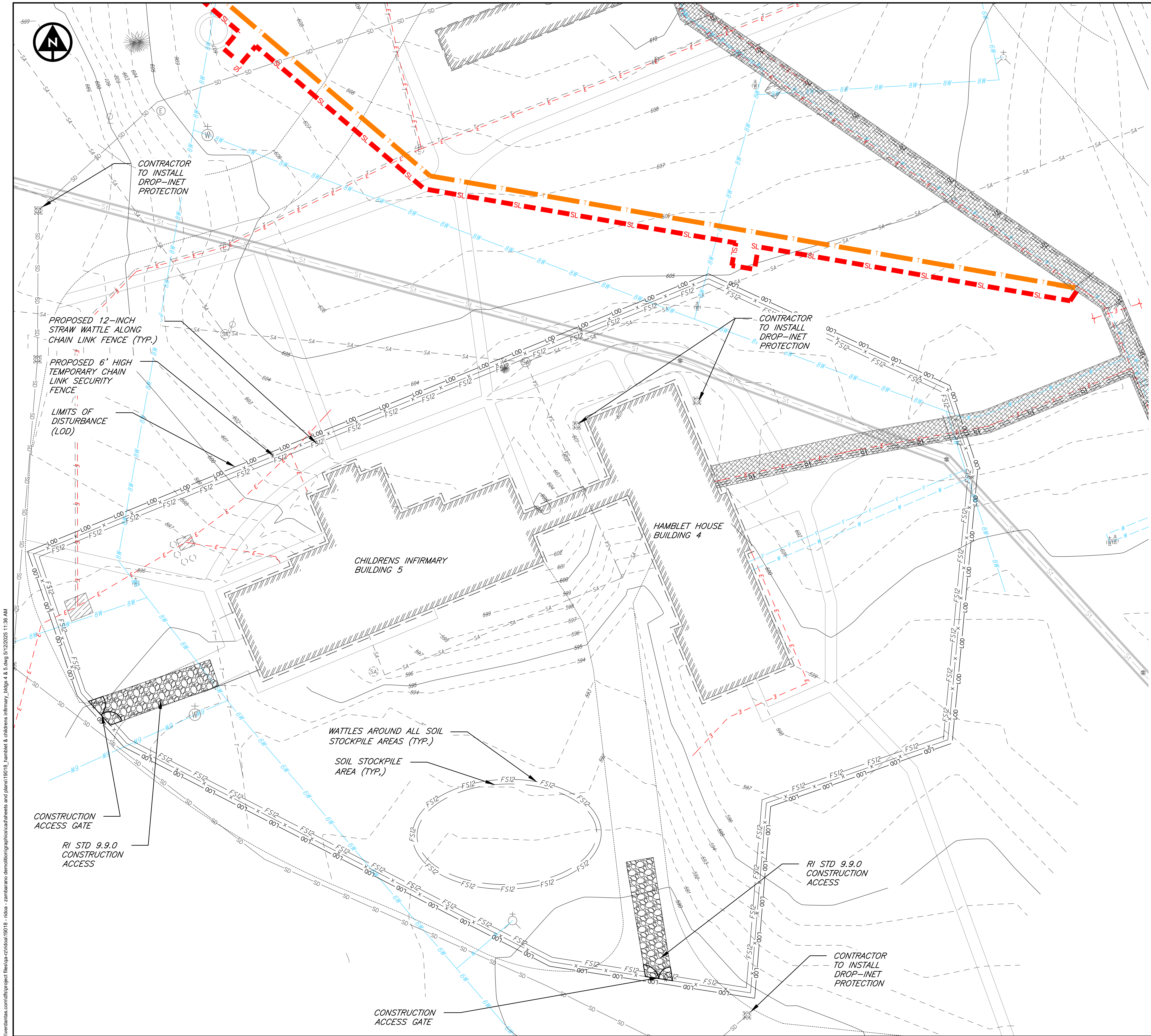
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- NOTES:**
1. CONTRACTOR TO LOCATE TEMPORARY WASHOUT & FACILITIES ADJACENT TO WORK AREA.
  2. POTABLE WATER MAY BE USED FOR DEMOLITION AND SUPPLIED BY NEARBY HYDRANTS.



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No. 4017  
REGISTERED  
PROFESSIONAL  
ENGINEER  
CIVIL  
STATE: RHODE ISLAND E. 14017

DESIGNED BY	RCM	CHK'D BY	DATE
DRAWN BY	ERB	REVISION	
CHECKED BY	END		
PROJECT NO.	19018		

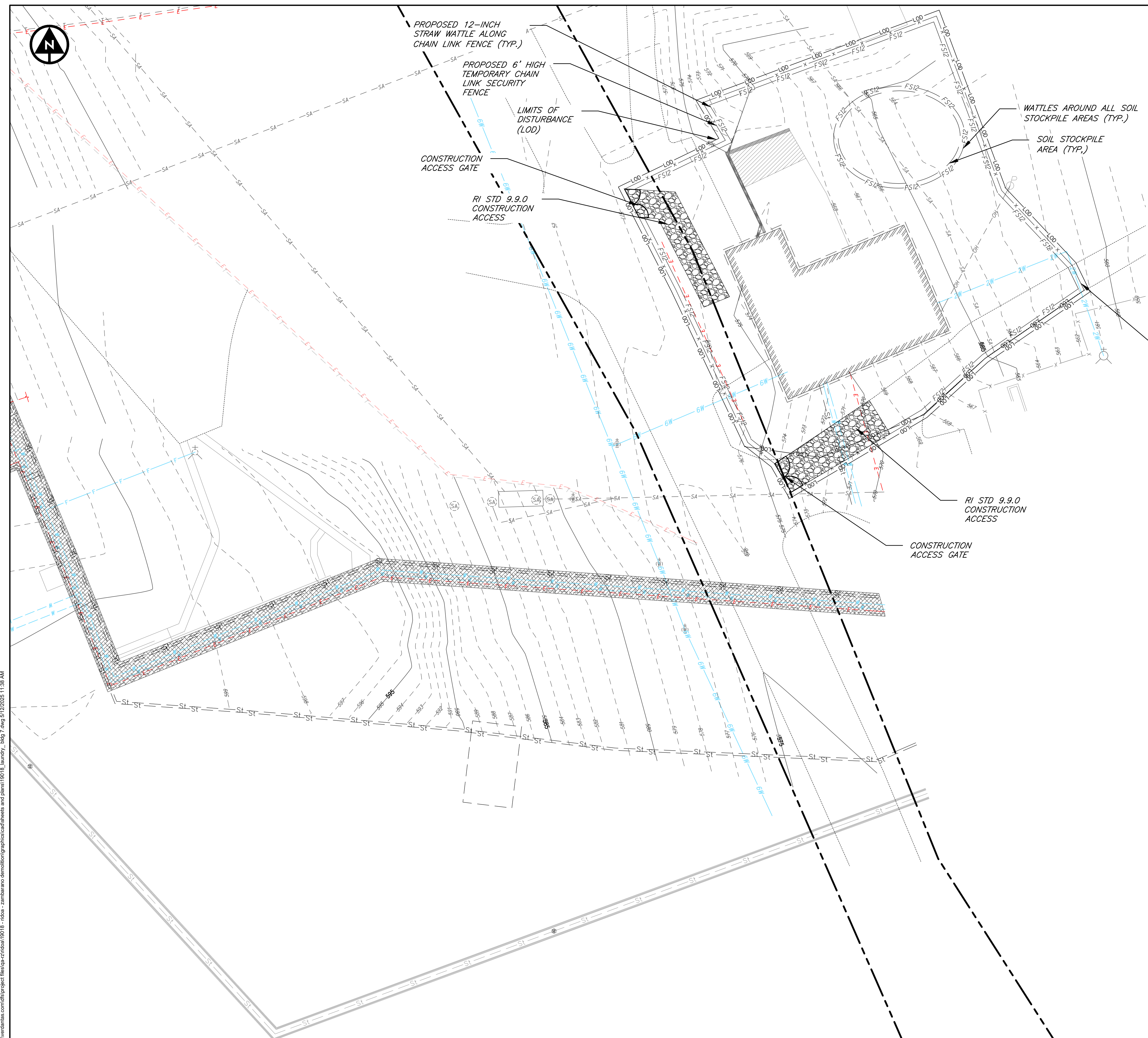
BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL**  
**BUILDING DEMOLITION**  
HAMBLETS HSE & CHILDRENS INFIRMARY - BLDGS 4 & 5  
SEDIMENT AND EROSION CONTROL PLAN

DATE  
MAY 2025

SCALE  
1" = 20'

SHEET  
**C117**





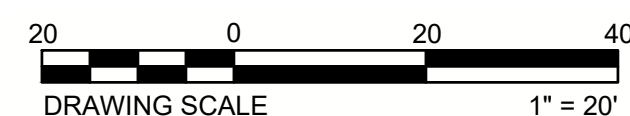
NOTES:

1. CONTRACTOR TO LOCATE TEMPORARY WASHOUT & FACILITIES ADJACENT TO WORK AREA.
2. POTABLE WATER MAY BE USED FOR DEMOLITION AND SUPPLIED BY NEARBY HYDRANTS.

CONTRACTOR TO  
COORDINATE WITH OWNER  
TO MAINTAIN ACCESS TO  
WWTF GENERATOR

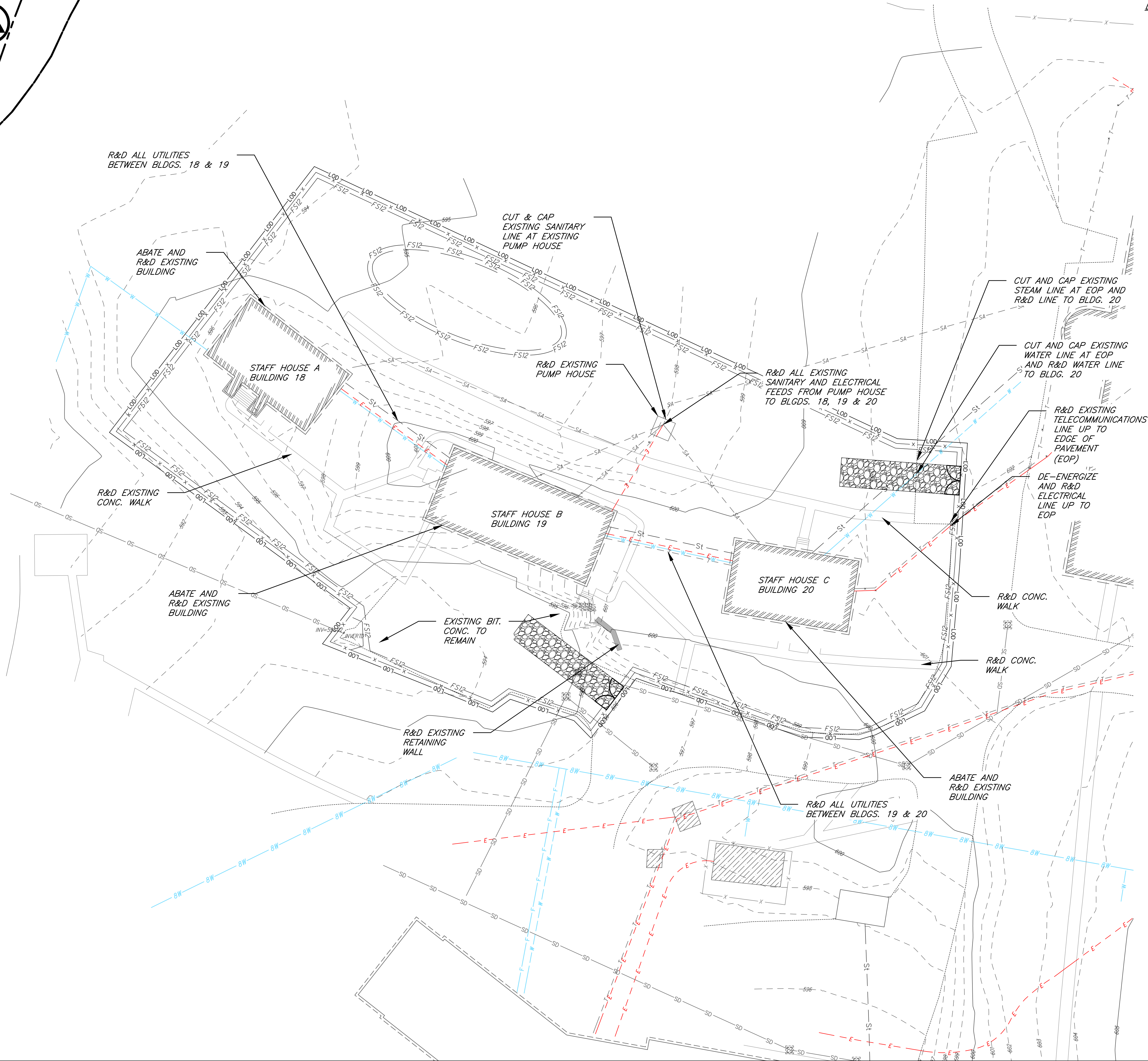
RI STD 9.9.0  
CONSTRUCTION  
ACCESS

CONSTRUCTION  
ACCESS GATE





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- DEMOLITION NOTES:**
1. CONTRACTOR SHALL REVIEW THE FOLLOWING DOCUMENTS:
    - 1.1. HAZARDOUS MATERIALS INSPECTION REPORTS
    - 1.2. ASBESTOS ABATEMENT PLANS
    - 1.3. NFPA 241 FIRE SAFETY PLAN
  2. BUILDING DEMOLITION SHALL INCLUDE ALL BUILDING FOUNDATIONS, SLABS, AND FOOTINGS.
  3. ALL BUILDING AND TUNNEL GRAVES TO BE BACKFILLED WITH COMMON BORROW.
  4. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL POST INDICATOR CONTROL VALVES WITHIN THE LIMITS OF WORK, INCLUDING THOSE THAT MAY NOT BE SHOWN.
  5. CONTRACTOR SHALL NOTIFY THE PASCOAG FIRE DEPARTMENT (PFD) PRIOR TO COMMENCEMENT OF ABATEMENT ACTIVITIES, AND PRIOR TO ENTRY OF THE UNDERGROUND UTILITY TUNNELS WHICH SHALL BE CONSIDERED CONFINED SPACE ENTRY FOR THE DURATION OF THE PROJECT.
  6. FIRE ALARM AND SPRINKLER SYSTEMS SHALL REMAIN ACTIVE FOR THE MAXIMUM EXTENT PRACTICABLE AND AT A MINIMUM SHALL REMAIN ACTIVE IN BUILDINGS WHICH SUBSTANTIAL DEMOLITION HAS NOT BEGUN.
  7. CONTRACTOR SHALL MAINTAIN THE WATER SUPPLY AND FIRE HYDRANT ACCESS THROUGHOUT THE DURATION OF THE PROJECT.

1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL: 401-728-6860

ERIC M. DENARDO  
ERIC METER DENARDO  
No. 14017  
REGISTERED  
PROFESSIONAL ENGINEER  
CIVIL  
STATE: RHODE ISLAND, E. 14017

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ERB  
CHECKED BY  
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PROJECT NO.  
19018

BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL**  
**BUILDING DEMOLITION**  
STAFF HOUSES A, B, & C - BLDGS 18, 19, & 20  
DEMOLITION PLAN

DATE  
MAY 2025

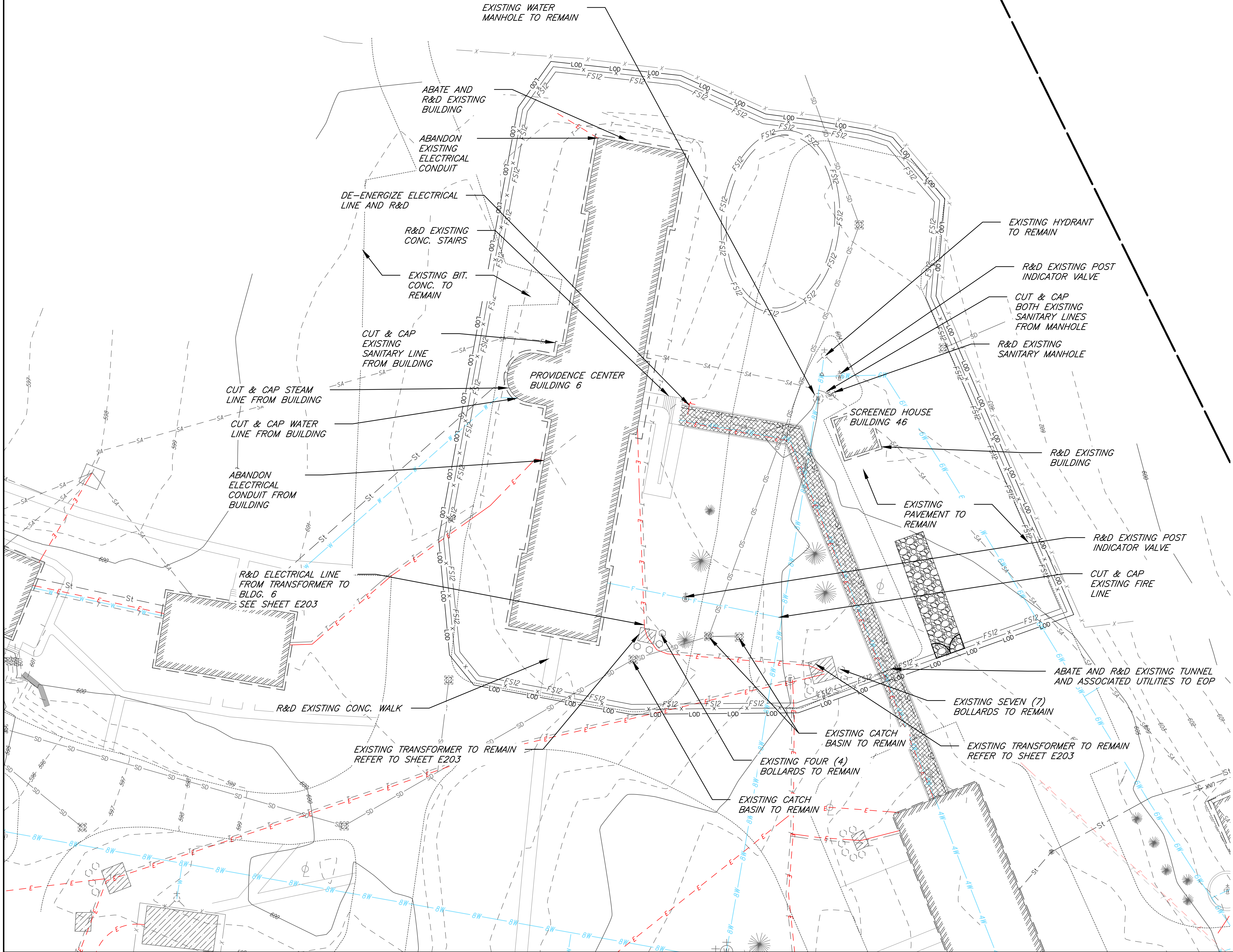
SCALE  
1" = 20'

SHEET  
**C119**







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- DEMOLITION NOTES:**
1. CONTRACTOR SHALL REVIEW THE FOLLOWING DOCUMENTS:
    - 1.1. HAZARDOUS MATERIALS INSPECTION REPORTS
    - 1.2. ASBESTOS ABATEMENT PLANS
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PAWTUCKET, RI 02860  
TEL. 401-728-6860



ERIC M. DENARDO  
No. 14017  
REGISTERED PROFESSIONAL ENGINEER  
STATE: RHODE ISLAND E. 14017

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RCM	DATE		
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ERB			
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PROJECT NO.			
19018			

BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND

**ZAMBARANO HOSPITAL**

**BUILDING DEMOLITION**

**PROV. CENTER & SCREENED HOUSE - BLDGS 6 & 46**

**DEMOLITION PLAN**

DATE

MAY 2025

SCALE

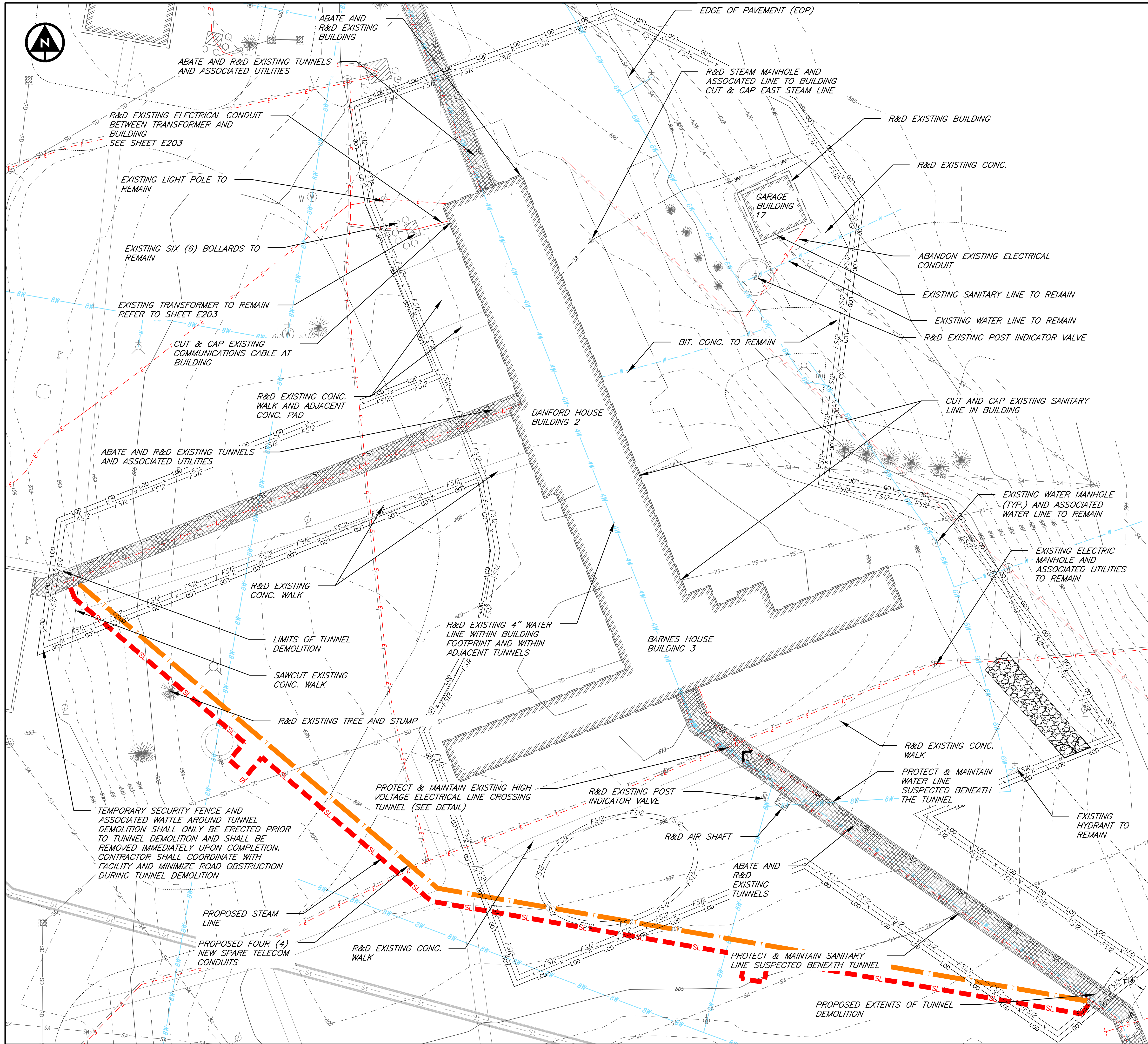
1" = 20'

SHEET

**C120**

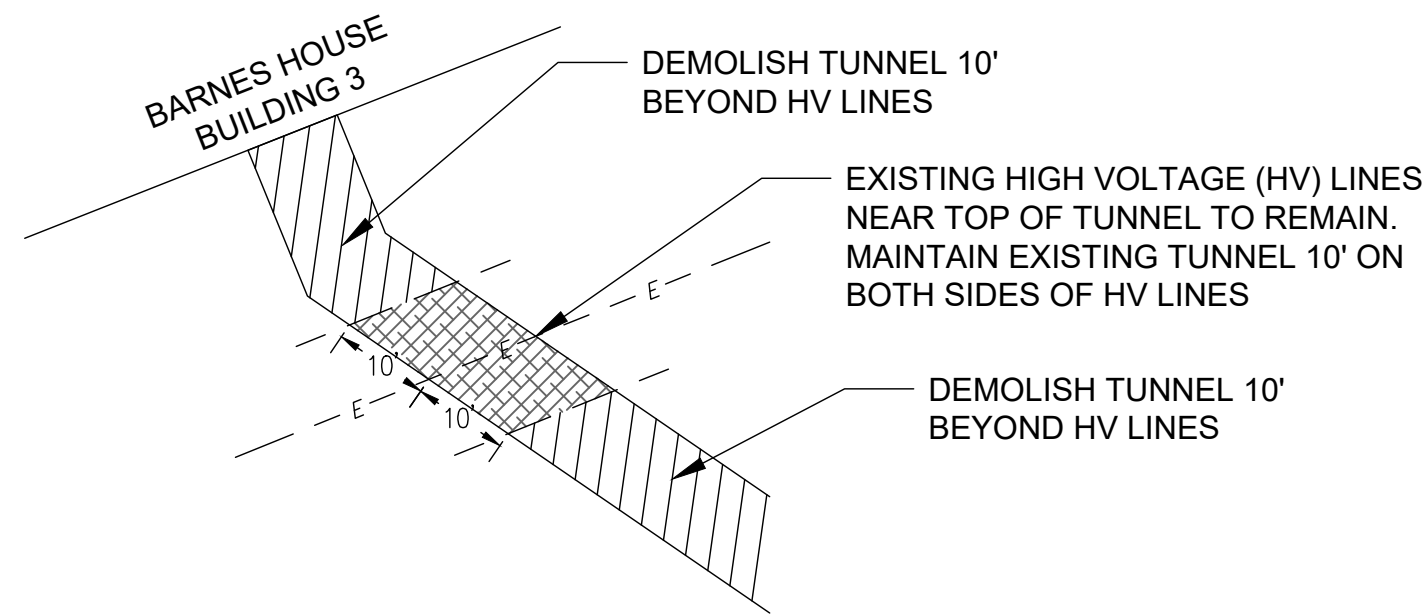


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DEMOLITION NOTES:

- CONTRACTOR SHALL REVIEW THE FOLLOWING DOCUMENTS:
  - HAZARDOUS MATERIALS INSPECTION REPORTS
  - ASBESTOS ABATEMENT PLANS
  - NFPA 241 FIRE SAFETY PLAN
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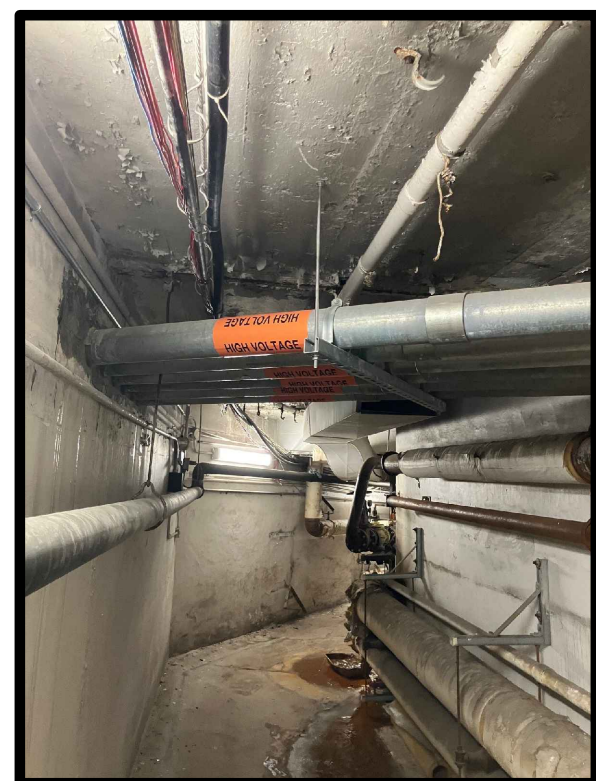


NOTES:

- CONTRACTOR SHALL PROTECT & MAINTAIN EXISTING HIGH VOLTAGE (HV) LINES, INCLUDING CLEARLY MARKING LOCATION WITHIN ALL LIMITS OF WORK.
- CONTRACTOR SHALL REMOVE ALL OTHER UTILITIES WITHIN THE VICINITY OF THE HV LINES.
- CONTRACTOR SHALL MAINTAIN EXISTING TUNNEL WITHIN 10' ON BOTH SIDES OF THE HV LINE DURING TUNNEL DEMOLITION.
- CONTRACTOR SHALL CONSTRUCT CMU BLOCK WALLS OR PLUG BY OTHER MEANS THE REMAINING 20' SECTION OF TUNNEL AROUND THE HV LINE AND FILL WITH CLSM.
- CONTRACTOR TO EXPOSE TOP OF THE TUNNEL ABOVE THE HV LINES BY HAND OR OTHER APPROVED METHODS AND STAIN CONCRETE RED. RESTORE LOCATION TO ORIGINAL CONDITIONS.

HIGH VOLTAGE (HV) LINE PRESERVATION DETAIL

NOT TO SCALE



VIEW IN EXISTING TUNNEL OF HIGH VOLTAGE LINES TO REMAIN

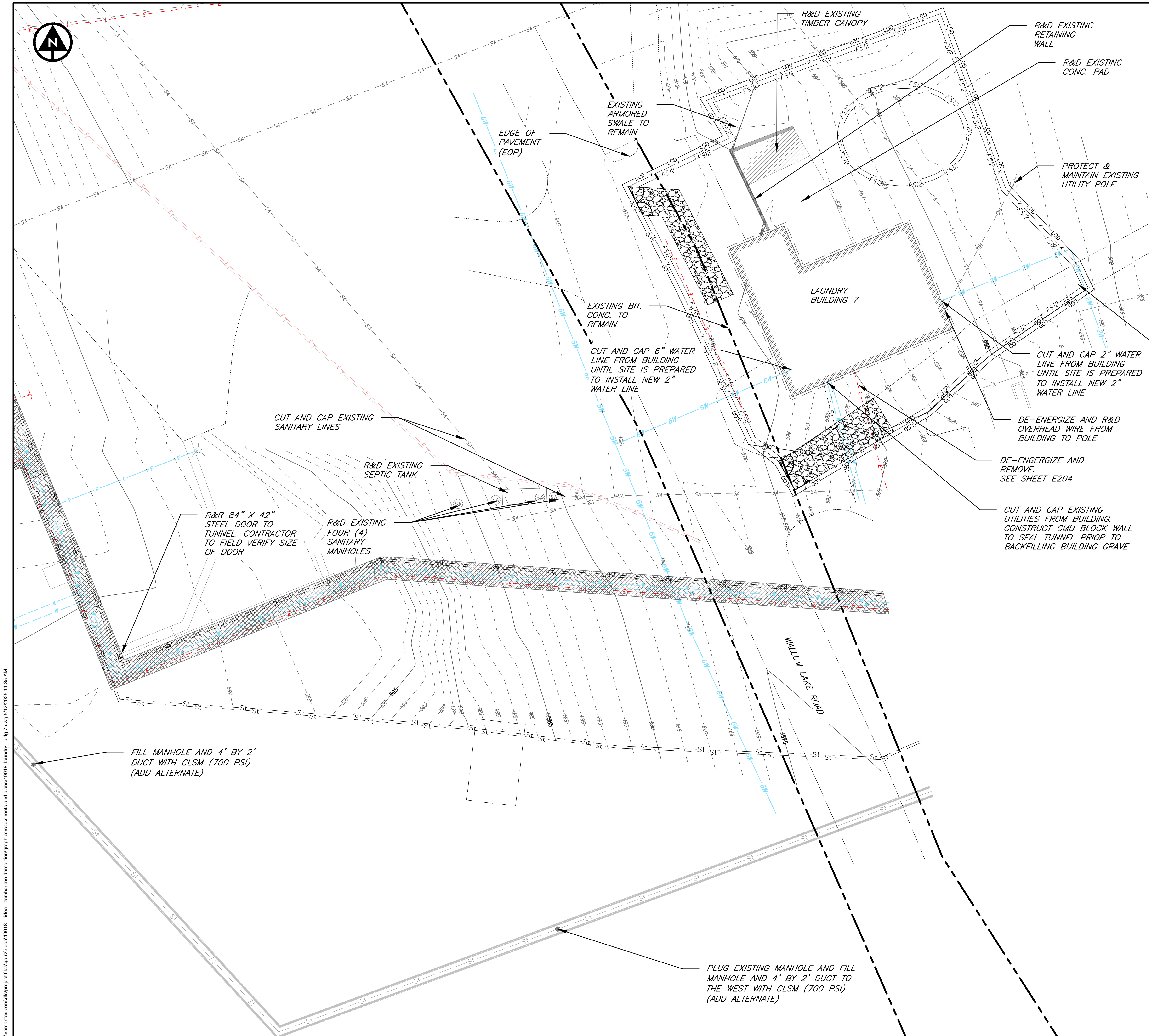




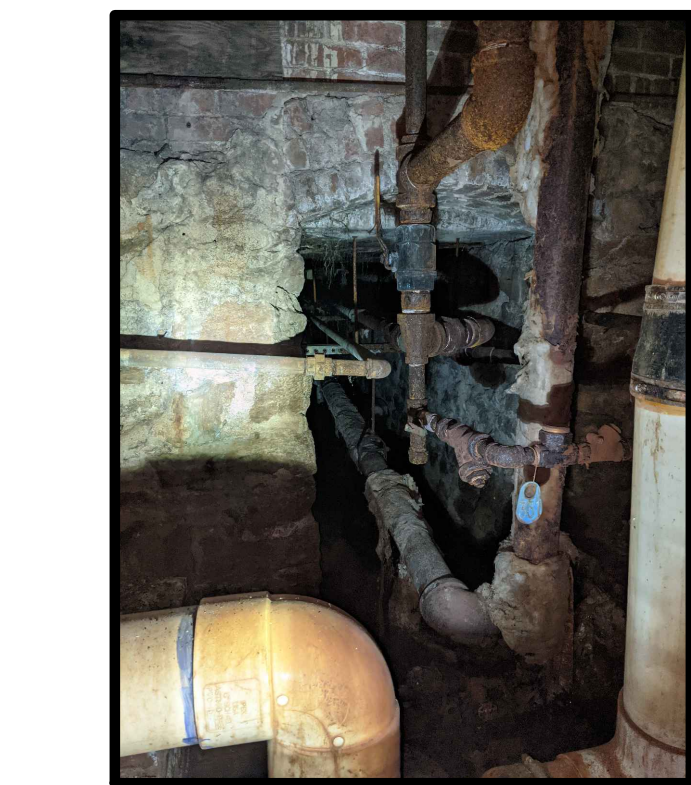




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- DEMOLITION NOTES:**
1. CONTRACTOR SHALL REVIEW THE FOLLOWING DOCUMENTS:
    - 1.1. HAZARDOUS MATERIALS INSPECTION REPORTS
    - 1.2. ASBESTOS ABATEMENT PLANS
    - 1.3. NFPA 241 FIRE SAFETY PLAN
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  5. CONTRACTOR SHALL NOTIFY THE PASCOAG FIRE DEPARTMENT (PFD) PRIOR TO COMMENCEMENT OF ABATEMENT ACTIVITIES, AND PRIOR TO ENTRY OF THE UNDERGROUND UTILITY TUNNELS WHICH SHALL BE CONSIDERED CONFINED SPACE ENTRY FOR THE DURATION OF THE PROJECT.
  6. FIRE ALARM AND SPRINKLER SYSTEMS SHALL REMAIN ACTIVE FOR THE MAXIMUM EXTENT PRACTICABLE AND AT A MINIMUM SHALL REMAIN ACTIVE IN BUILDINGS WHICH SUBSTANTIAL DEMOLITION HAS NOT BEGUN.
  7. CONTRACTOR SHALL MAINTAIN THE WATER SUPPLY AND FIRE HYDRANT ACCESS THROUGHOUT THE DURATION OF THE PROJECT.



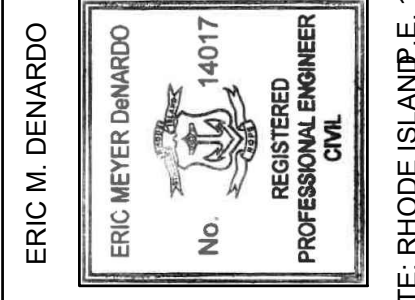
VIEW OF WATER AND STEAM LINES ENTERING LAUNDRY BASEMENT



BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL  
BUILDING DEMOLITION  
LAUNDRY - BLDG 7 AND SEPTIC TANK  
DEMOLITION PLAN**

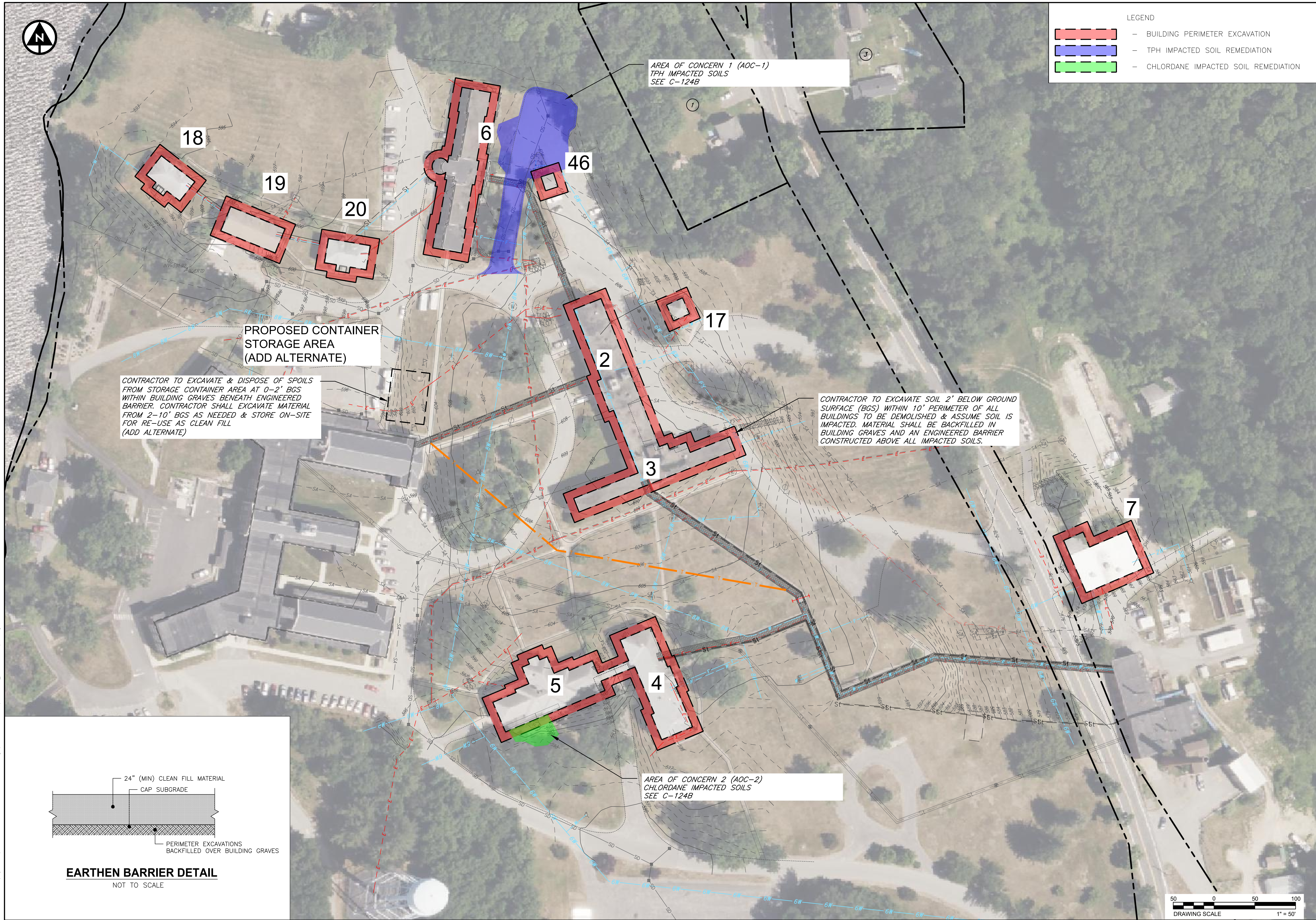
DATE MAY 2025  
SCALE 1" = 20'  
SHEET **C123**

DESIGNED BY	CHK'D BY	REVISION	No.
ERIC M. DENARDO	DATE		
RCM			
DRAWN BY			
ERB			
CHECKED BY			
END			
PROJECT NO.			
19018			



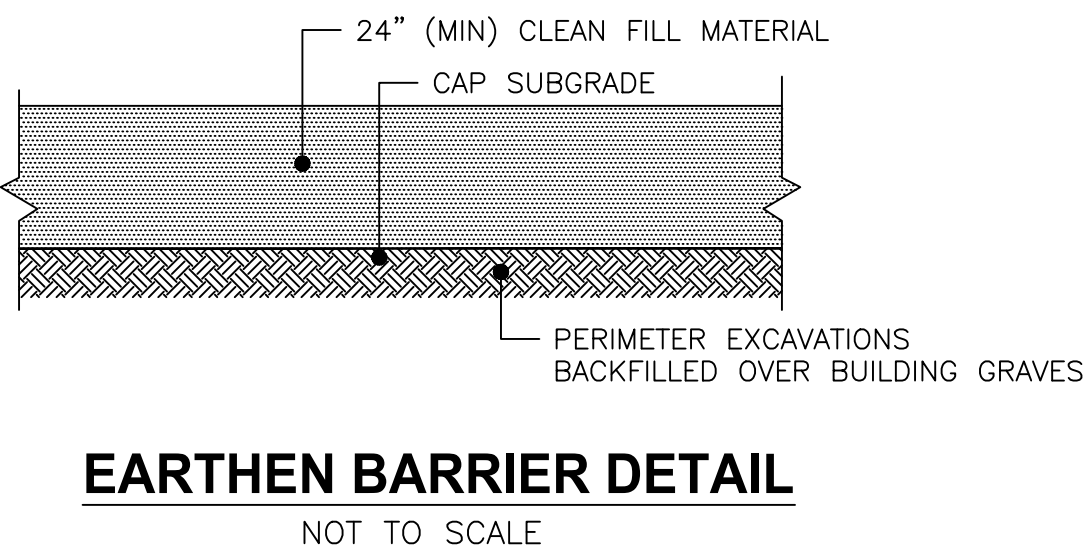


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LEGEND

- BUILDING PERIMETER EXCAVATION
- TPH IMPACTED SOIL REMEDIATION
- CHLORDANE IMPACTED SOIL REMEDIATION



1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL. 401-728-6860

ERIC M. DENARDO  
ERIC MEYER DENARDO  
No. 14017  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF RHODE ISLAND

DESIGNED BY	RCM
DRAWN BY	ERB
CHECKED BY	END
PROJECT NO.	19018

REVISION

**ISSUED FOR BID**

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BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL  
BUILDING DEMOLITION**  
SOIL DISPOSAL PLAN

DATE  
MAY 2025

SCALE  
1" = 50'

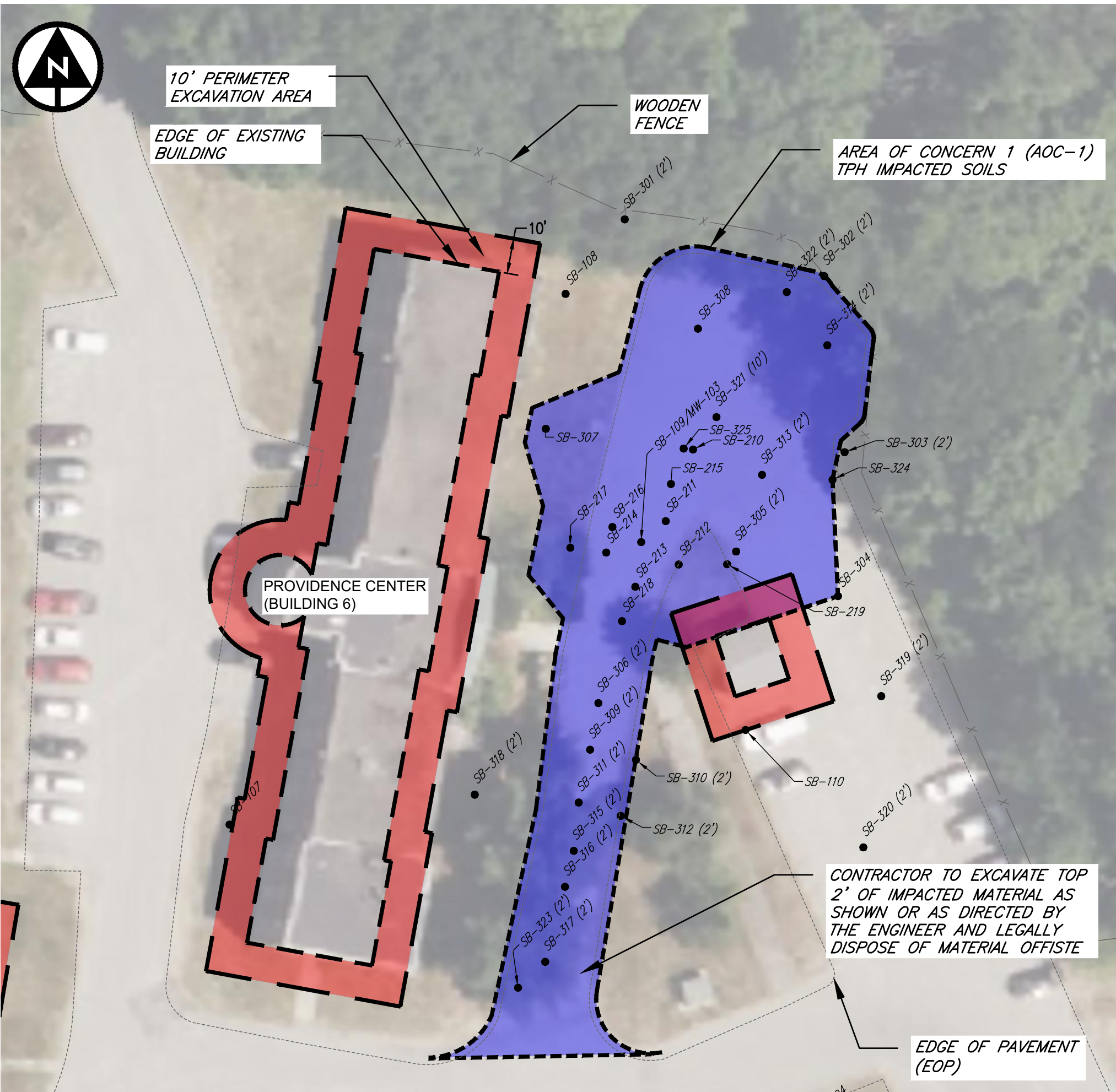
SHEET  
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AOC-1 REMEDIATION

AOC-1 AREA = 11,750 SF  
EXCAVATION DEPTH = 2 FT  
ESTIMATED IMPACTED SOIL DISPOSAL QUANTITY = 1,673 TONS  
ESTIMATED ASPHALT DISPOSAL QUANTITY = 230 TONS



AOC-1 TPH REMEDIATION

SCALE: 1" = 30'

	Parameter	Total Petroleum Hydrocarbons
	Unit	mg/kg
Direct Exposure Criteria - Residential		500
Direct Exposure Criteria - Comm. / Industrial		2,500
GA Leachability		500
RIRRC		2,500
Station	Date	
TPH: 8100M		
SB-109 0-2'	7/10/2024	2,040
SB-210	1/13/2025	85,700
SB-211	1/13/2025	56,800
SB-212	1/13/2025	1,920
SB-213	1/13/2025	38,400
SB-214	1/13/2025	45,200
SB-215	1/13/2025	37,100
SB-217	1/13/2025	1,280
SB-218	1/13/2025	194
SB-219	1/13/2025	3,560
SB-302 0 - 2ft	2/26/2025	89.4
SB-307 0 - 1ft	2/26/2025	2,440
SB-308 1-2ft	2/26/2025	<39.5
SB-308 2 - 5ft	2/26/2025	<41.9
SB-312 0-1ft	2/26/2025	104
SB-315 2-4ft	2/26/2025	<37.8
SB-317 0-1ft	2/27/2025	398
SB-317 1-2ft	2/27/2025	<42.0
SB-321 0-1.5ft	2/27/2025	2,590
SB-321 1.5-3.5ft	2/27/2025	129
SB-324 0 - 2ft	2/27/2025	<48.6
SB-325 0 - 2ft	2/27/2025	1,000
SB-325 2 - 5ft	2/27/2025	<44.1

Notes:

NT - Not Tested

NS - No Standard

mg/kg - milligram per kilogram

Bold - Compound detected above laboratory reporting limit.

Shaded cell - Parameter exceeds Standard.

Res DEC - RIDEM Residential Direct Exposure Criteria

Com./ Indust. DEC - RIDEM Direct Exposure Criteria - Comm. / Industrial

GA Leach. - RIDEM GA Leachability

RIRRC - RI Resource Recovery Center

- LEGEND
- BUILDING PERIMETER EXCAVATION
  - TPH IMPACTED SOIL REMEDIATION
  - CHLORDANE IMPACTED SOIL REMEDIATION
  - SOIL BORING

SB-100

	Parameter	Chlordane
	Unit	mg/kg
Direct Exposure Criteria - Residential		0.5
Direct Exposure Criteria - Comm. / Industrial		4.4
RIRRC		4.4
Station	Date	
Pesticides: 8081B		
SB-119 0-5'	7/12/2024	7.72
SB-201	1/13/2025	3.20
SB-202	1/13/2025	0.0528
SB-203	1/13/2025	0.183
SB-204	1/13/2025	1.28
SB-205	1/13/2025	0.511
SB-206	1/13/2025	0.0497
SB-207	1/13/2025	<0.0364
SB-208	1/13/2025	0.204
SB-209	1/13/2025	0.0777

Notes:

NT - Not Tested

NS - No Standard

mg/kg - milligram per kilogram

Bold - Compound detected above laboratory reporting limit.

Shaded cell - Parameter exceeds Standard.

Res DEC - RIDEM Residential Direct Exposure Criteria

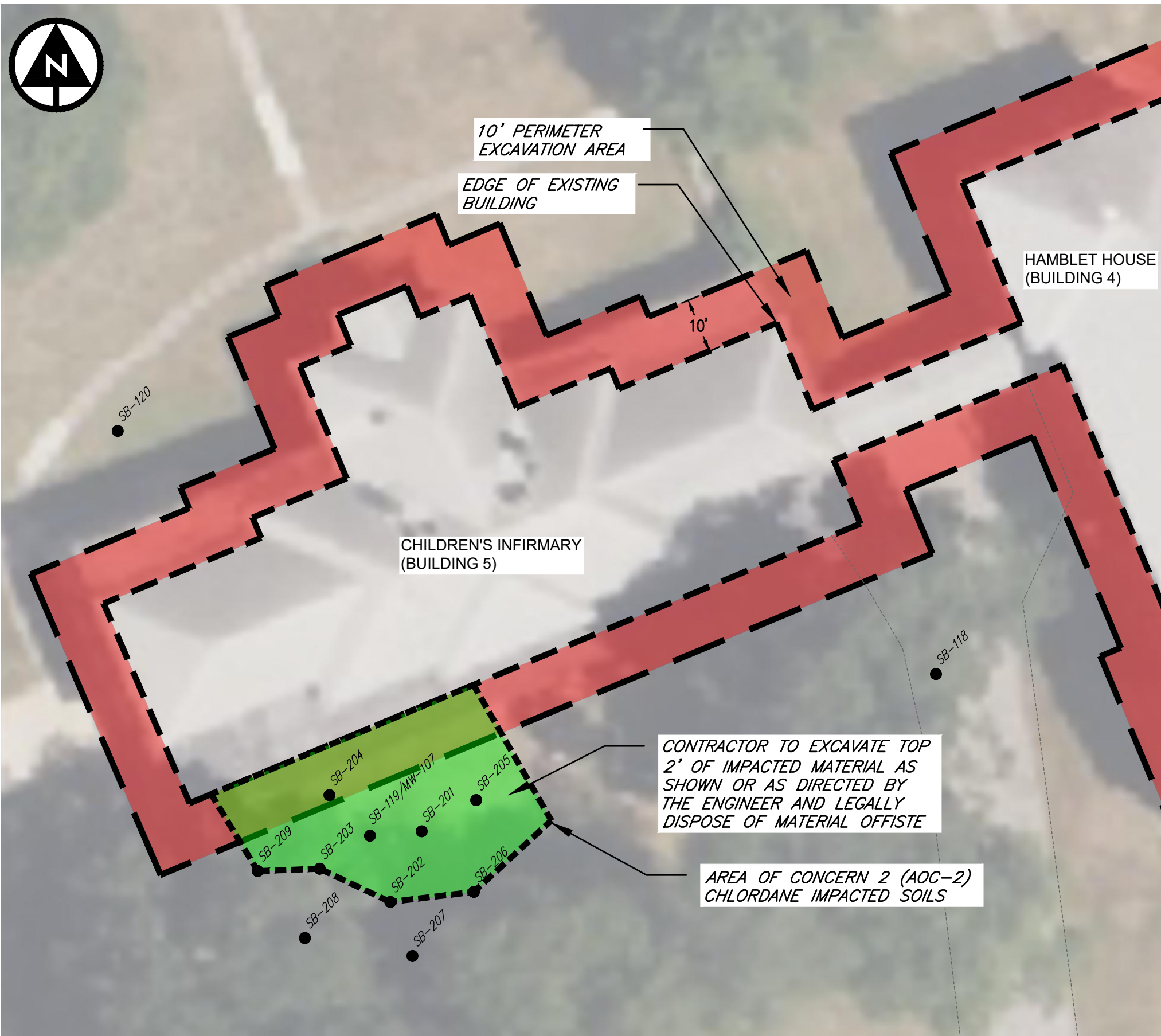
Com./ Indust. DEC - RIDEM Direct Exposure

Criteria - Comm. / Industrial

RIRRC - RI Resource Recovery Center

AOC-2 REMEDIATION

AOC-2 AREA = 1,450 SF  
EXCAVATION DEPTH = 2 FT  
ESTIMATED IMPACTED SOIL DISPOSAL QUANTITY = 210 TONS



AOC-2 CHLORDANE REMEDIATION

SCALE: 1" = 20'

verdantas

1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL. 401-728-6860

ERIC M. DENARDO

ERIC METER DENARDO

No. 14017

REGISTERED

PROFESSIONAL ENGINEER

Civil

STATE: RHODE ISLAND E. 14017

DESIGNED BY

RCM

CHK'D BY

DATE

REVISION

No.

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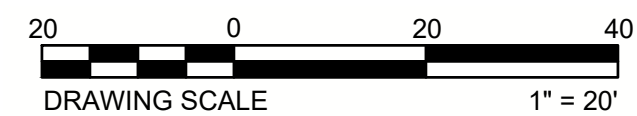
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REVISION

**ISSUED  
FOR  
BID**

DESIGNED BY	RGM
DRAWN BY	ERB
CHECKED BY	EMD
PROJECT NO.	19018

ERIC M. DENARDO  
ERIC MEYER DENARDO  
No. 14017  
REGISTERED  
PROFESSIONAL ENGINEER  
CIVIL  
RHODE ISLAND P.E.

**verdantas**

1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL. 401-728-6860



DESIGNED BY RGM	DRAWN BY ERB	CHECKED BY EMD	PROJECT NO. 19018
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No.	REVISION	CHK'D BY DATE
	<b>ISSUED FOR BID</b>	

**BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
ZAMBARANO HOSPITAL  
BUILDING DEMOLITION  
DANFORD & BARNES HSE & GARAGE - BLDGS 2, 3 & 17  
PROPOSED CONDITIONS PLAN**

DATE MAY 2025

SCALE  $1" = 20'$

SHEET

**C127**





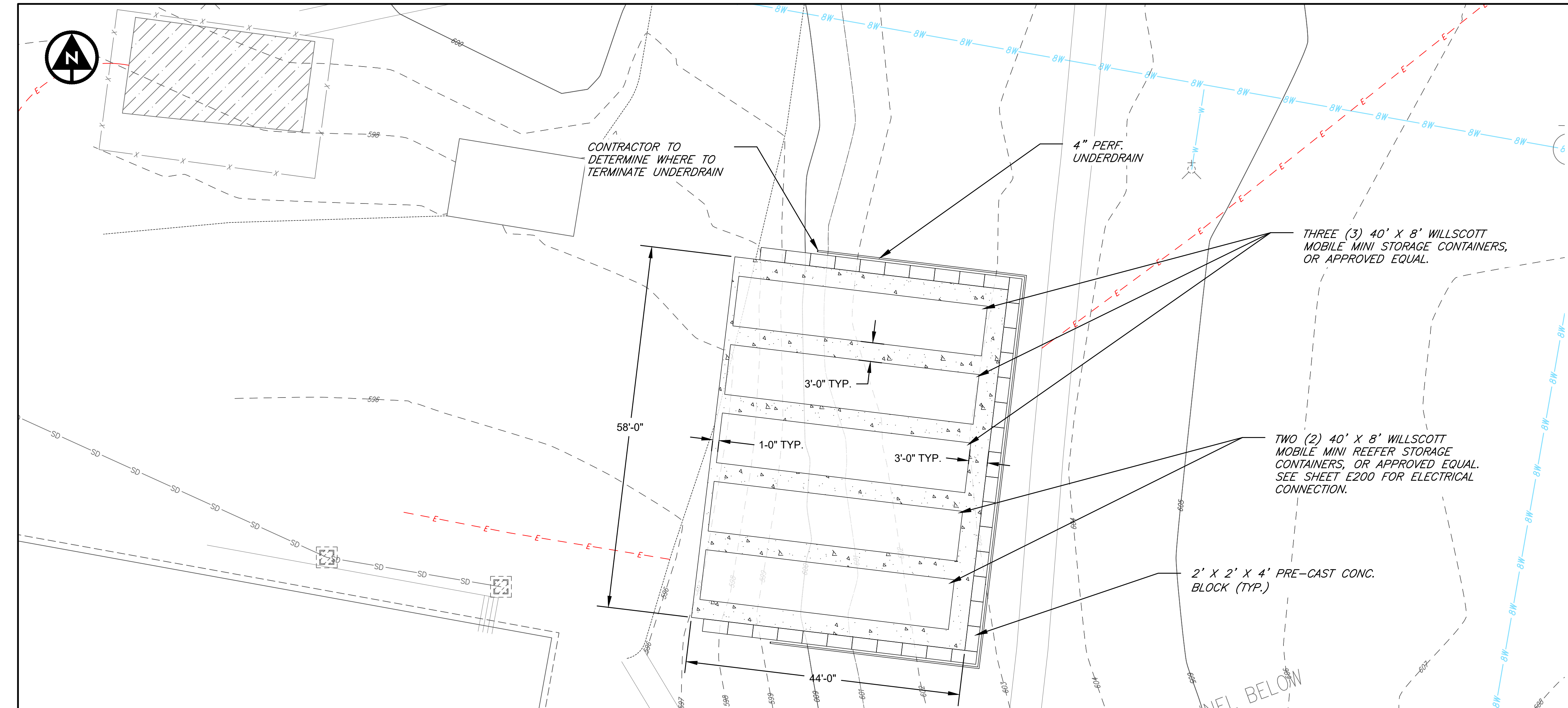




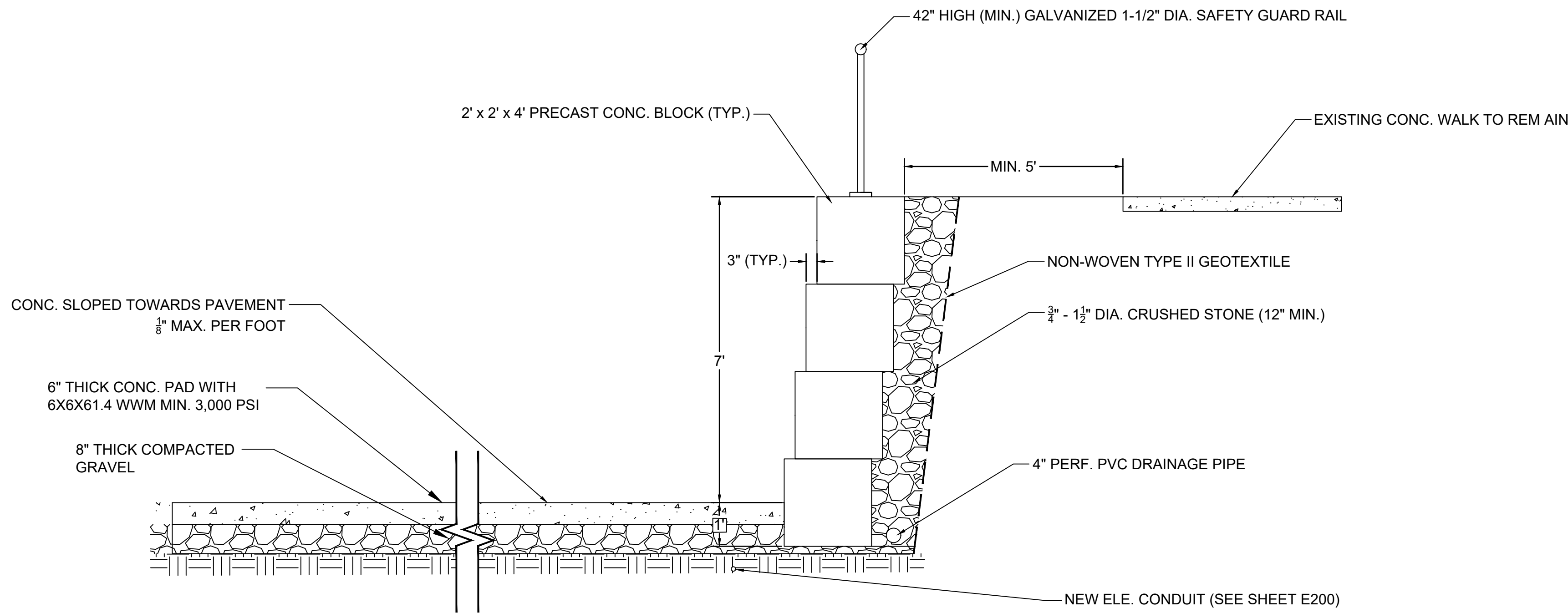




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PLAN VIEW - PROPOSED STORAGE AREA  
1" = 10'



SECTION VIEW - PROPOSED STORAGE AREA  
1/2" = 1'

BRIEF SUMMARY OF WORK (ADD ALTERNATE)

1. CONTRACTOR SHALL FIELD VERIFY BURIED ELECTRICAL LINE IS NOT LIVE AND REMOVE & DISPOSE AS NEEDED TO COMPLETE THE WORK SHOWN.
2. EXCAVATE CONCRETE PAD FOOTPRINT AND HANDLE SOIL AS DESCRIBED ON THE SOIL DISPOSAL PLAN C124.
3. FURNISH AND INSTALL 8" COMPACT GRAVEL SUBBASE FOR CONC. PAD AND RETAINING WALL.
4. FURNISH AND INSTALL 2' X 2' X 4' CONC. BLOCK RETAINING WALL WITH 12" CRUSHED STONE, GEOTEXTILE, 4" PERFORATED DRAINAGE PIPES, AND 42" HIGH SAFETY RAIL.
5. PREPARE ELECTRICAL CONNECTIONS AS SHOWN IN E200.
6. FURNISH AND INSTALL NEW 58' X 44' CONC. PAD FOR STORAGE CONTAINERS.
7. FURNISH AND INSTALL THREE (3) 40' X 8' STORAGE CONTAINERS AND TWO (2) 40' X 8' WILLSCOTT MOBILE MINI REEFER STORAGE UNITS, OR APPROVED EQUAL.
8. PERFORM ELECTRICAL CONNECTIONS AND FURNISH AND INSTALL LIGHTING.



1005 MAIN STREET, SUITE 8120  
PAWTUCKET, RI 02860  
TEL. 401-728-6860



STATE: RHODE ISLAND E. 14017

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	ISSUED FOR BID		DRAWN BY ERB
			CHECKED BY EMD
			PROJECT NO. 19018

BURRILLVILLE-PROVIDENCE COUNTY-RHODE ISLAND  
**ZAMBARANO HOSPITAL  
BUILDING DEMOLITION  
STORAGE AREA  
PROPOSED CONDITIONS PLAN**

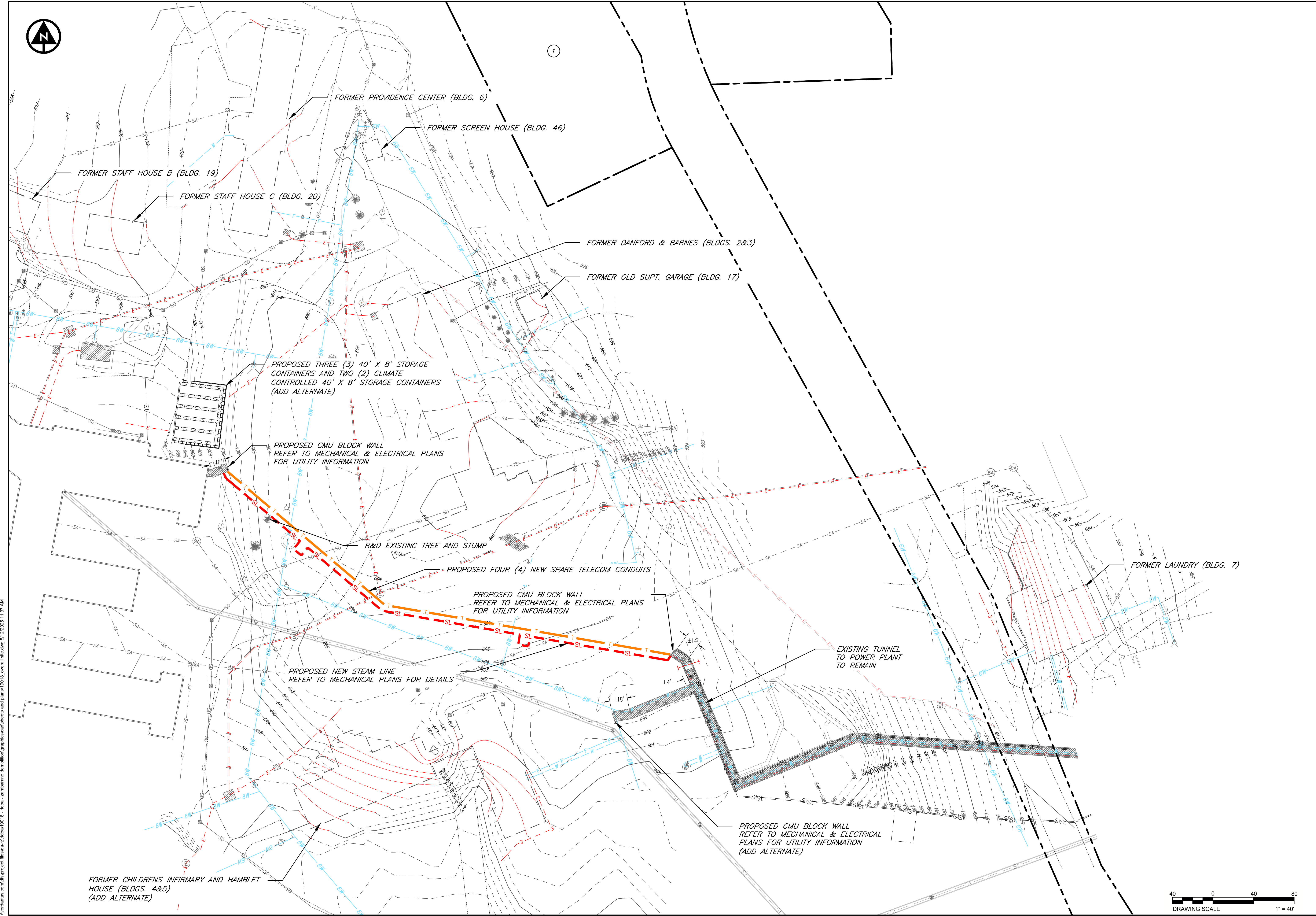
DATE  
MAY 2025

SCALE  
AS SHOWN

SHEET  
**C130**







DRAWING SCALE 1" = 40'



ERIC MEYER DeNARD0  
No. 14017  
  
REGISTERED  
PROFESSIONAL ENGINEER  
CIVIL

STATE: RHODE ISLAND P.E. 14017

ERB

1001

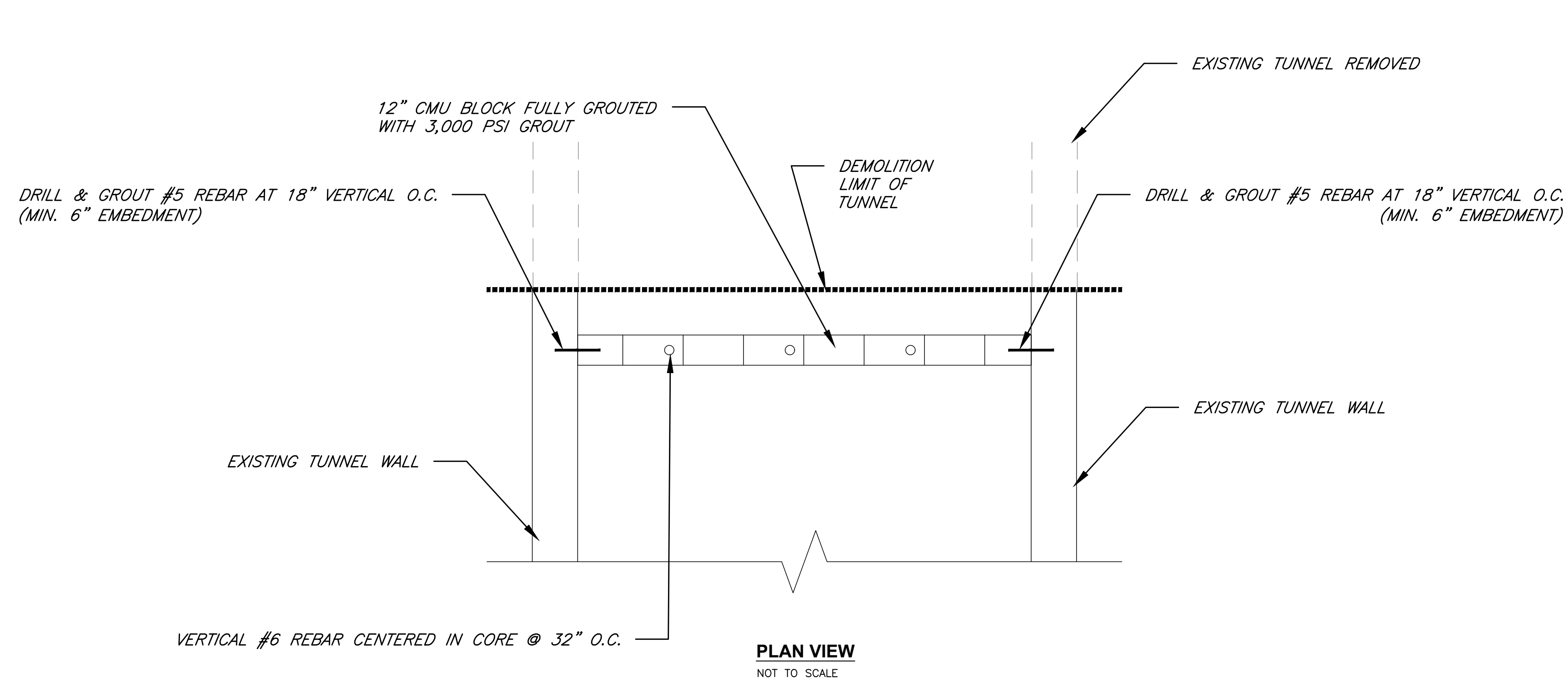
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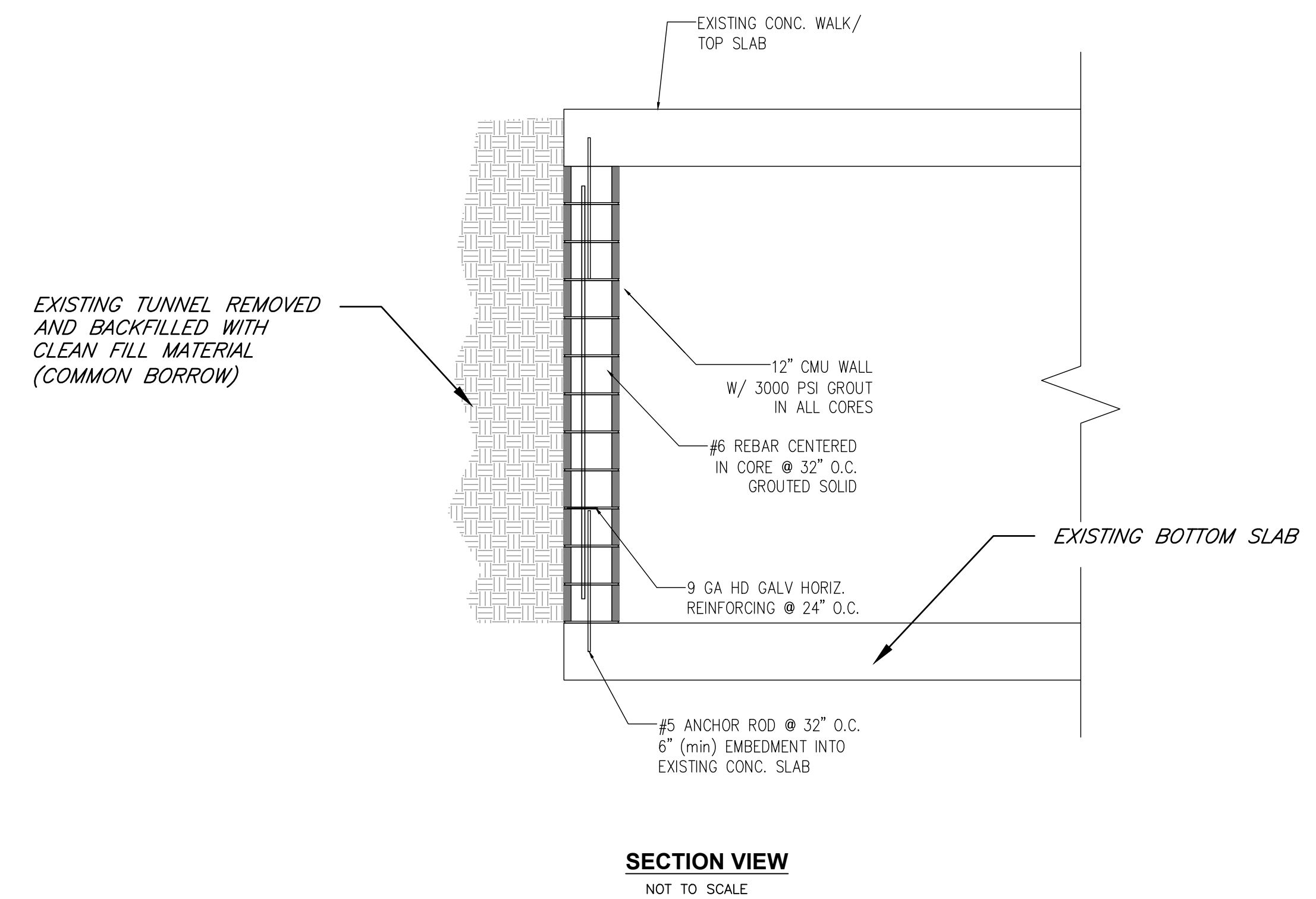
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**C131**





## CMU BLOCK WALL FOR TUNNELS



**SECTION VIEW**  
NOT TO SCALE



ABBREVIATIONS					
GENERAL ABBREVIATIONS:			CONTROLS ABBREVIATIONS:		
AAV	AUTOMATIC AIR VENT	L	LENGTH	ACD	AUTOMATIC CONTROL DAMPER
ADD'L	ADDITIONAL	LAT	LEAVING AIR TEMPERATURE	ACV	AUTOMATIC CONTROL VALVE
AFF	ABOVE FINISHED FLOOR	LB	POUND	AMS	AIR FLOW MEASURING STATION
AMS	AIR FLOW MEASURING STATION	LF	LINEAR FEET	ALM	ALARM
ALT	ALTITUDE OR ALTERNATE	LD	LINEAR DIFFUSER	ATC	AUTOMATIC TEMPERATURE CONTROL
AMP	AMPERE	LPS	LOW PRESSURE STEAM	ATS	AIR TEMPERATURE SENSOR
AP	ACCESS PANEL	LRA	LOOKED ROTOR AMPS		
APD	AIR PRESSURE DROP	LVD	LOUVERED DOOR	BD	BACKDRAFT DAMPER
ARCH	ARCHITECT	LVG	LEAVING	BV	BYPASS VALVE
ATC	AUTOMATIC TEMP. CONTROL	LWT	LEAVING WATER TEMPERATURE		
ATM	ATMOSPHERE			CO2	CARBON DIOXIDE SENSOR
AVG	AVERAGE	MAX	MAXIMUM	CO	CARBON MONOXIDE SENSOR
		MBH	THOUSAND BTH	CT	CURRENT TRANSFORMER
BDD	BACKDRAFT DAMPER	MCA	MINIMUM CIRCUIT AMPS	CV	CONTROL VALVE
BG	BLAST GATE DAMPER	MD	MOTOR OPERATED DAMPER		
BHP	BRAKE HORSEPOWER	MECH	MECHANICAL	DDC	DIRECT DIGITAL CONTROL
BI	BACKWARDS INCLINED	MEZZ	MEZZANINE	DPS	DIFFERENTIAL PRESSURE SWITCH
BLDG	BUILDING	MFR	MANUFACTURER	DPT	DIFFERENTIAL PRESSURE SENSOR
BMS	BUILDING MANAGEMENT SYSTEM	MIN	MINIMUM	DPV	DIFF. PRESSURE BYPASS VALVE
BOD	BOTTOM OF DUCT	MPS	MEDIUM PRESSURE STEAM	DSD	DUCT MOUNTED SMOKE DETECTOR
BOP	BOTTOM OF PIPE	MUA	MAKE-UP AIR	DWDI	DOUBLE WIDTH DOUBLE INLET
BSMT	BASEMENT				
BTU	BRITISH THERMAL UNIT	N/A	NOT APPLICABLE	ES	END SWITCH
BTH	BTU PER HOUR	NC	NORMALLY CLOSED	FM	FLOW METER/TRANSMITTER
		NC	NOISE CRITERIA	FZ	FREEZE/STAT
CA	COMPRESSED AIR	NIC	NOT IN CONTRACT		
CDW	CONDENSER WATER	NO	NORMALLY OPEN	H	HUMIDISTAT
CENT	CENTRIFUGAL	No	NUMBER	H2	HYDROGEN SENSOR
CF	CUBIC FEET	NOM	NOMINAL	HEPA	HIGH EFF. PARTICULATE AIR FILTER
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE	HGB	HOT GAS BYPASS
CL	CENTERLINE			HHL	HIGH HUMIDITY LIMIT SENSOR
C.L.	COLUMN LINE	OA	OUTSIDE AIR	HOA	HANDS-OFF AUTOMATIC SWITCH
CND	CONDENSATE	OD	OUTSIDE DIAMETER	HS	HUMIDITY SENSOR
CLG	CEILING OR COOLING	ODP	OPEN DRIP PROOF	HZ	HERTZ
C.O.	CLEAN-OUT	OED	OPEN END DUCT		
CO2	CARBON MONOXIDE	OV	OUTLET VELOCITY		
COL	COLUMN				
CONN	CONNECTION	PD	PRESSURE DROP		
CONTR	CONTRACTOR	PH	PHASE	AC	AIR CONDITIONING UNIT
CV	CONSTANT VOLUME	PHC	PREHEAT COIL	ACU	AC CONDENSING UNIT
		PBG	PLUMBING	AHU	AIR HANDLING UNIT
		POS	PROVIDED BY OTHER SECTION	AS	AIR SEPARATOR
DB	DRY BULB TEMPERATURE	PSI	POUNDS PER SQUARE INCH		
		PSIA	PSI ABSOLUTE	B	BOILER
		PSID	PSI DIFFERENTIAL	BB	BASE BOARD
DEG	DEGREE DIRECT	PSIG	PSI GAUGE	BC	BRANCH CONTROLLER
DDC	DIGITAL CONTROL	PVC	POLYVINYL CHLORIDE	BFW	BOILER FEED WATER UNIT
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE	BP	BOILER PUMP
DIFF	DIFFUSER			BT	BUFFER TANK
DIM	DIMENSION				
DN	DOWN	QTY	QUANTITY	CAC	CRITICAL COOLING AC UNIT
DP	DIFFERENTIAL PRESSURE			CC	COOLING COIL
DWDI	DOUBLE WIDTH DOUBLE INLET	R	RADIUS	CCU	CC CONDENSING UNIT
DX	DIRECT EXPANSION	RA	RETURN AIR	CH	CHILLER
		REG	REGISTER	CT	CIRCULATOR PUMP
EA	EACH OR EXHAUST AIR	RET	RETURN	CP	COOLING TOWER
EAT	ENTERING AIR TEMPERATURE	REQD	REQUIRED	CU	CU
ECH	ELECTRIC CABINET HEATER	RH	RELATIVE HUMIDITY	CUH	CABINET UNIT HEATER
EFF	EFFICIENCY	RLA	RUNNING LOAD AMPS	CWC	CHILLED WATER COIL
ELEC	ELECTRICAL	RLL	REFRIGERANT LIQUID LINE		
ELEV	ELEVATION	RM	ROOM	DC	DRY COOLER
EMER	EMERGENCY	RPM	REVOLUTIONS PER MINUTE	DEF	DISHWASHER EXHAUST FAN
EMS	ENERGY MANAGEMENT SYSTEM	RSL	REFRIGERANT SUCTION LINE		
ENT	ENTER			E	EXHAUST GRILLE
ESP	EXTERNAL STATIC PRESSURE	SA	SUPPLY AIR	EBB	ELECTRIC BASE BOARD
EWT	ENTERING WATER TEMPERATURE	SCH	SCHEDULE	ECH	ELECTRIC CABINET HEATER
EXH	EXHAUST	SD	SMOKE DETECTOR	ECH	ELECTRIC CEILING HEATER
EXIST.	EXISTING	SEN	SENSIBLE	EF	EXHAUST FAN
		SHC	SENSIBLE HEAT CAPACITY	ERV	ENERGY RECOVERY VENTILATOR
F	FAHRENHEIT OR FAN	SP	STATIC PRESSURE	ET	EXPANSION TANK
FA	FREE AREA	SPECS	SPECIFICATIONS	EUH	ELECTRIC UNIT HEATER
FD	FIRE DAMPER (ACCESS DOOR)	SQ	SQUARE		
FLA	FULL LOAD AMPS	SF	SQUARE FEET	F	FURNACE
FLEX	FLEXIBLE	SS	STAINLESS STEEL	FC	FAN COIL UNIT
FFM	FEET PER MINUTE	STL	STEEL	FPB	FAN POWERED VAV
FPS	FEET PER SECOND	SUP	SUPPLY	FT	FINTUBE
FRP	FIBERGLASS REINFORCED PLASTIC	SWSI	SINGLE WITH SINGLE INLET		
FS	FLOW SWITCH				
FT	FEET				
FTR	FINNED TUBE RADIATION	T	TEMPERATURE		
		TEL	TELEPHONE		
G	GAS	TEFC	TOT. ENCLOSED FAN COOLED		
GAL	GALLONS	TEMP	TEMPERATURE		
GALV	GALVANIZED	TSTAT	THERMOSTAT		
GC	GENERAL CONTRACTOR	TOD	TOP OF DUCT		
GPH	GALLONS PER HOUR	TON	12,000 BTH		
GPM	GALLONS PER MINUTE	TOP	TOP OF PIPE		
GWB	GYPSUM WALL BOARD	TOT	TOTAL		
		TSP	TOTAL STATIC PRESSURE		
		TYP	TYPICAL		
HB	HOSE BIBB				
HC	HEATING COIL	V	VENT		
HEX	HEAT EXCHANGER	VB	VACUUM BREAKER		
HGT	HEIGHT	VD	VOLUME DAMPER		
HP	HORSEPOWER	V	VOLTS (ELECTRICAL)		
HR	HOUR	VEL	VELOCITY		
HTG	HEATING				
HPS	HIGH PRESSURE STEAM	W	WIDTH OR WATT		
HW	HOT WATER	W/	WITH		
HZ	HERTZ	WB	WET BULB TEMPERATURE		
		WC	WATER COLUMN		
ID	INSIDE DIAMETER	WG	WATER GAUGE		
IN	INCHES	WMS	WIRE MESH SCREEN		
		W/O	WITHOUT		
KW	KILOWATT	WPD	WATER PRESSURE DROP		
		WTD	WATER TEMPERATURE DIFF.		

HVAC DEMOLITION NOTES

1. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER. THE DRAWINGS ARE INTENDED TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR ASSUME THAT ALL EQUIPMENT IS SHOWN.
2. COORDINATE ALL WORK WITH THE BUILDING OWNER.
3. REFER TO ALL CONSTRUCTION DOCUMENTS TO GAIN A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED.
4. DISCONNECT & COMPLETELY REMOVE & DISCARD ALL EXISTING HVAC EQUIPMENT, CURBS, PIPING, INSULATION, CONTROLS, SUPPORTS, ETC... MADE OBSOLETE WITHIN THE SCOPE OF THE PROJECT, UNLESS NOTED OTHERWISE. THIS CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND PAY ALL RELATED FEES.
5. ALL OPENINGS SHALL BE KEPT PROPERLY SEALED UNTIL NEW WORK/PATCHING IS COMPLETE.
6. OWNER RESERVES THE OPTION OF SALVAGE RIGHTS TO ALL DEMOLISHED MATERIAL AND REMOVED EQUIPMENT. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE TO OBTAIN A LIST OF MATERIALS OR EQUIPMENT TO BE TURNED OVER TO THE OWNER.

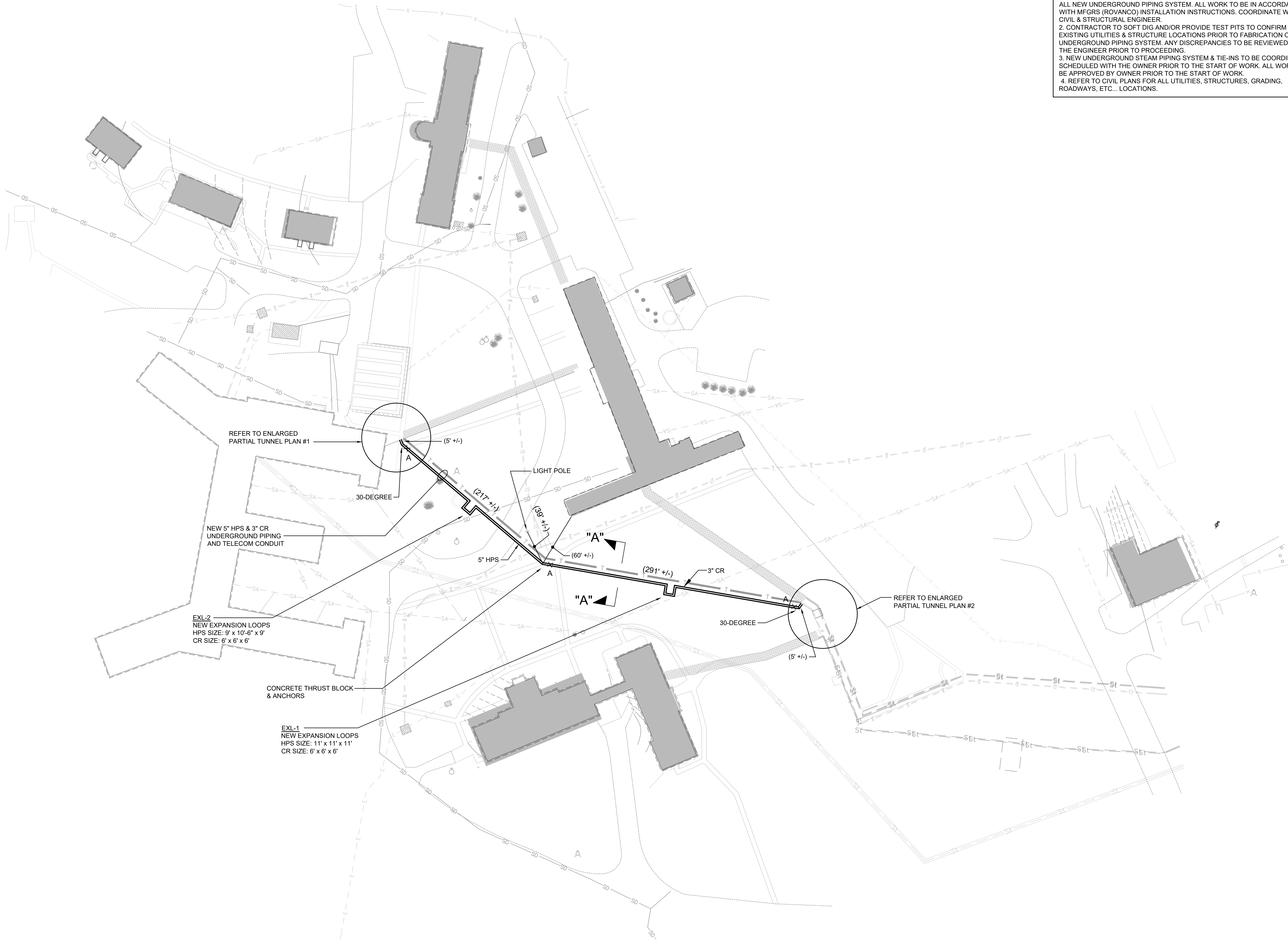
CONSTRUCTION NOTES:

1. LOCATIONS OF EXISTING EQUIPMENT AND PIPING HAVE BEEN TAKEN FROM BEST AVAILABLE INFORMATION. THE DRAWINGS ARE INTENDED TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR ASSUME THAT ALL EQUIPMENT IS SHOWN. HE SHALL VISIT THE SITE TO DETERMINE THE TOTAL EXTENT OF REMOVALS AND NEW WORK AS DIAGRAMMED ON THE PLANS. EXTRA COMPENSATION FOR FAILURE TO COMPLY WITH THE ABOVE STATEMENTS WILL NOT BE CONSIDERED.
2. PIPING AND EQUIPMENT AS SHOWN IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL DETERMINE EXACT LOCATIONS OF PIPING AND BREECHING RUNS, EQUIPMENT LOCATIONS AND CONNECTIONS TO SUIT FIELD CONDITIONS.
3. REMOVE EXISTING SECTIONS OF INSULATION ON PIPING WHERE NEW SECTIONS ARE BEING CONNECTED. RE-INSULATE TO MATCH AS REQ'D.
4. REROUTE ANY CONDUIT, PIPING, ETC. AS REQ'D TO ACCOMMODATE NEW INSTALLATIONS. PROVIDE NEW PIPE INSULATION AS REQUIRED. MAKE ALL SYSTEMS COMPLETELY OPERATIONAL.
5. THIS CONTRACTOR, PRIOR TO SUBMITTING HIS BID SHALL VISIT THE PROJECT SITE TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED. THE CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY WORK SHOWN ON THE DRAWINGS. THE DRAWINGS REFLECT THE BEST AVAILABLE INFORMATION FROM EXISTING PLANS AND SITE INVESTIGATIONS.
6. PROVIDE ALL REQUIRED RIGGING TO ACCOMMODATE THE REMOVAL & INSTALLATION OF ALL EQUIPMENT & PIPING.
7. PROVIDE ALL REQUIRED CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE INSTALLATION OF NEW MECHANICAL SYSTEM & REMOVAL OF THE EXISTING SYSTEMS. PATCH ALL SURFACES TO MATCH AND MAINTAIN ALL FIRE RATINGS.
8. ASBESTOS CUTTING, REMOVAL ENCAPSULATING OR DISPOSAL IS NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT OR PROJECT DOCUMENTS. ALL ASBESTOS CONSIDERATIONS AND INVOLVEMENT ARE THE SOLE RESPONSIBILITY OF THE OWNER OUTSIDE THE SCOPE OF THIS PROJECT. THE PRESENCE OF ASBESTOS MATERIALS WITHIN THE WORKING AREAS OF THIS PROJECT HAVE NOT BEEN INVESTIGATED OR DETERMINED. REFER TO OWNER FOR ANY CLARIFICATIONS REGARDING THE PRESENCE OF ASBESTOS MATERIALS. HOWEVER, THE CONTRACTOR SHALL RE-INSULATE ANY EXISTING PIPING AT NEW "TIE-INS" WHERE EXISTING INSULATION WAS REMOVED. REFER TO OWNER FOR ABATEMENT PROCEDURES.
9. DISCONNECT AND REMOVE ALL EXISTING EQUIPMENT, PIPING, SUPPORTS, HANGERS, AND ALL OTHER MECHANICAL COMPONENTS MADE OBSOLETE BY THIS PROJECT.
10. CONTRACTOR SHALL BE AWARE THAT THE EXISTING ACTIVE PIPING & CONDUITS MAY REQUIRE TEMPORARY SUPPORTS DURING DEMOLITION OF THE EXISTING TUNNELS.
11. THE BUILDINGS MUST REMAIN IN FULL OPERATION DURING THE CONSTRUCTION PERIOD. CONTRACTOR MUST HAVE OWNER APPROVAL FOR ANY DOWNTIMES PRIOR TO THE START OF WORK. IF APPROVAL IS NOT GRANTED, THEN THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING & COOLING WHEN THE CENTRAL STEAM DISTRIBUTION SYSTEM IS NOT AVAILABLE.

LEGEND

- POINT OF CONNECTION BETWEEN NEW & EXISTING
- GATE OFF VALVE
- HIGH PRESSURE STEAM PIPING
- STEAM CONDENSATE PIPING
- STEAM PIPING
- STEAN CONDENSATE PIPING
- CONDENSATE TRAP ASSEMBLY
- ANCHOR
- CERTIFICATION :
- 
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- | REV. NO. | DATE | DESCRIPTION |
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- 
- Zambarano**  
**2090 Wallum Lake Road**  
**Burrillville, RI 02859**
- PROJECT NAME:
- SHEET TITLE:
- MECHANICAL:
- LEGENDS & NOTES
- JOB NO.: 24030MU  
DRAWN BY: KB  
CHECKED BY: WM  
DATE ISSUED: 03/06/2025  
SCALE: AS NOTED
- SHEET NO.:
- M000

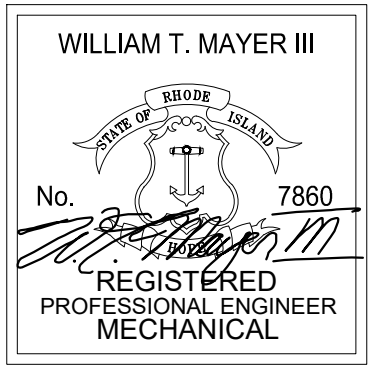




NOTES:  
1. COORDINATE ALL EXCAVATING, CUTTING, CORING, PATCHING, BACKFILL, GRADING, SEEDING, PAVING, UTILITIES, ETC... FOR COMPLETE INSTALLATION OF ALL NEW UNDERGROUND PIPING SYSTEM. ALL WORK TO BE IN ACCORDANCE WITH MFGRS (ROVANCO) INSTALLATION INSTRUCTIONS. COORDINATE WITH CIVIL & STRUCTURAL ENGINEER.  
2. CONTRACTOR TO SOFT DIG AND/OR PROVIDE TEST PITS TO CONFIRM ALL EXISTING UTILITIES & STRUCTURE LOCATIONS PRIOR TO FABRICATION OF THE UNDERGROUND PIPING SYSTEM. ANY DISCREPANCIES TO BE REVIEWED WITH THE ENGINEER PRIOR TO PROCEEDING.  
3. NEW UNDERGROUND STEAM PIPING SYSTEM & TIE-INS TO BE COORDINATED & SCHEDULED WITH THE OWNER PRIOR TO THE START OF WORK. ALL WORK TO BE APPROVED BY OWNER PRIOR TO THE START OF WORK.  
4. REFER TO CIVIL PLANS FOR ALL UTILITIES, STRUCTURES, GRADING, ROADWAYS, ETC... LOCATIONS.



CERTIFICATION :



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**ENGINEERING DESIGN SERVICES INCORPORATED**  
141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

PROJECT NAME:

**Zambarano**  
**2090 Wallum Lake Road**  
**Burrillville, RI 02859**

SHEET TITLE:

MECHANICAL:

OVERALL SITE PLAN

JOB NO.: 24030MU

DRAWN BY: KB

CHECKED BY: WM

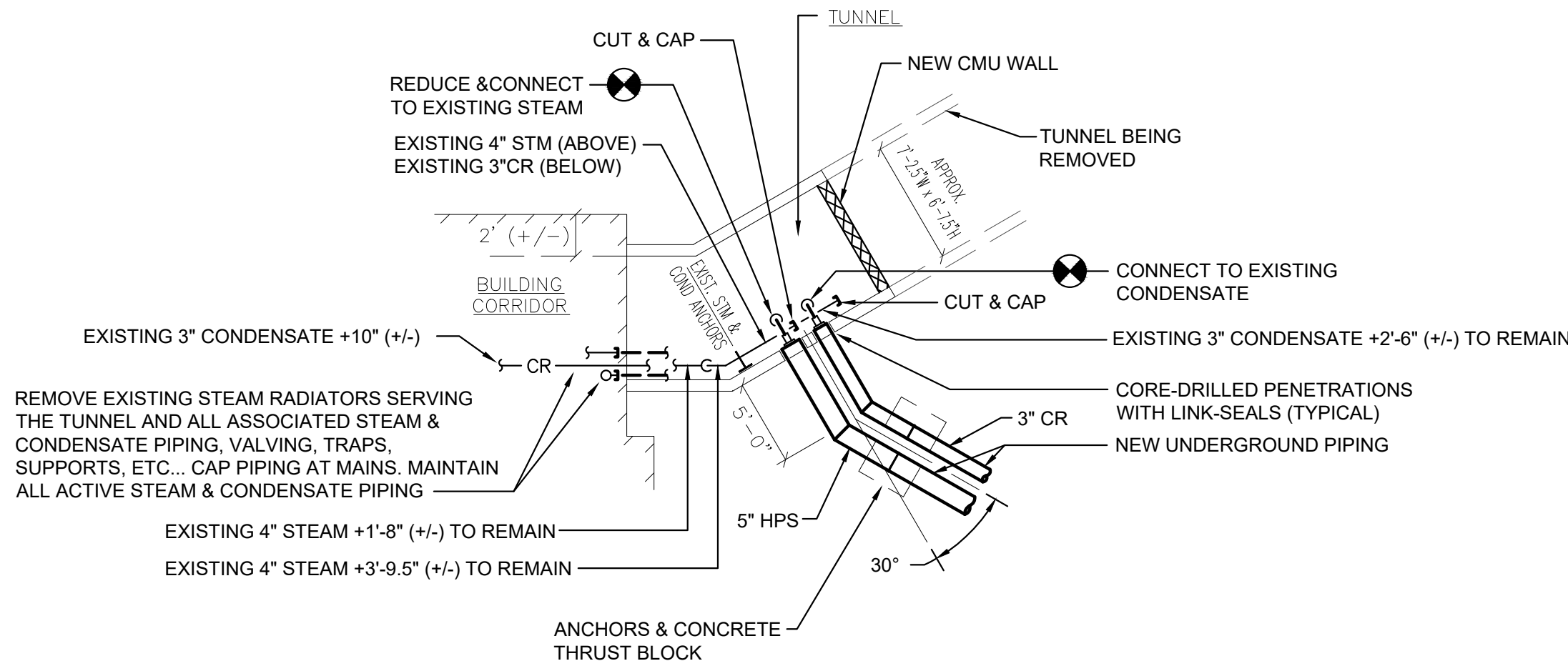
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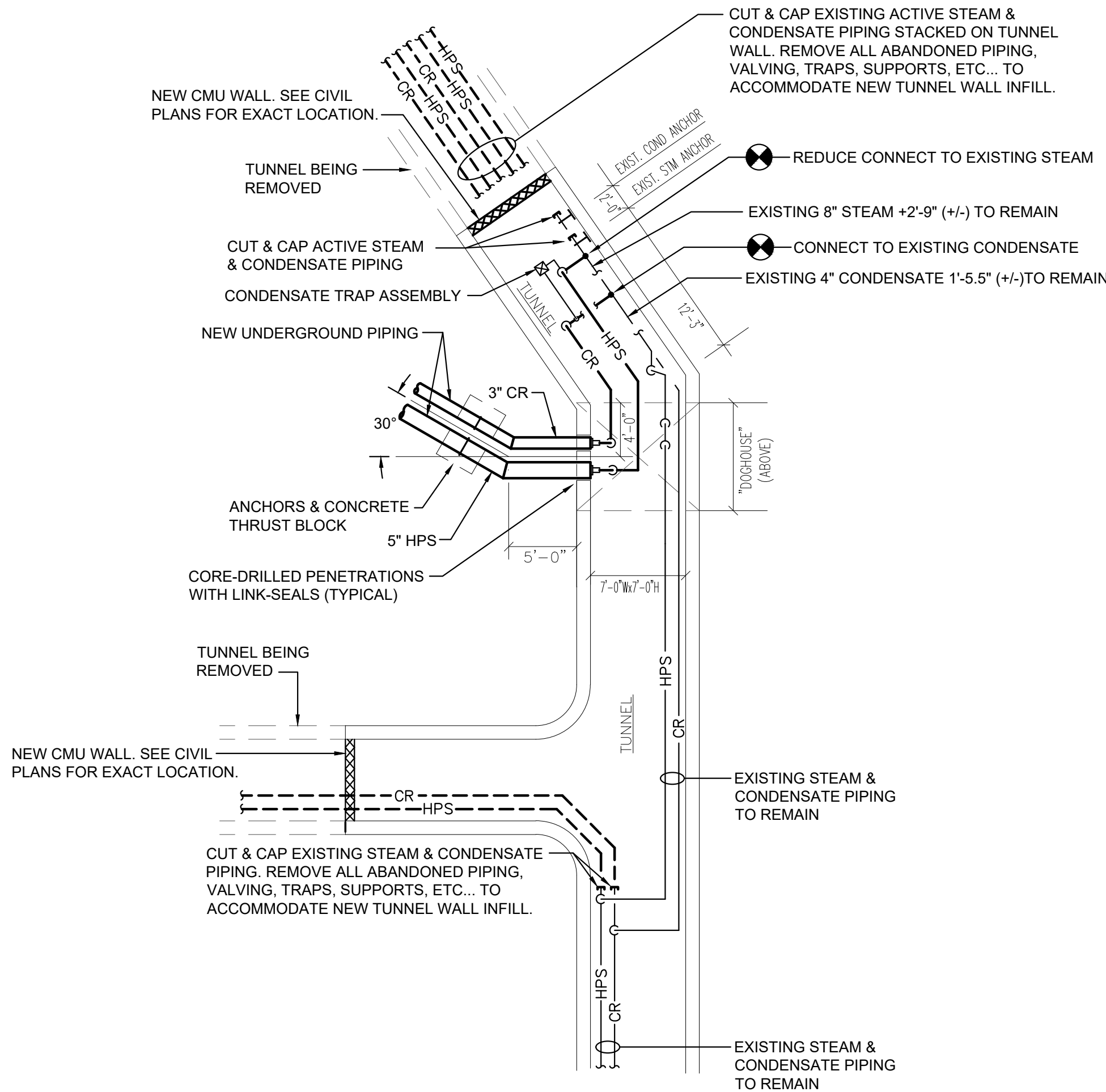
SHEET NO.:

**M100**





1 MECHANICAL - PARTIAL TUNNEL PLAN #1  
M200 SCALE: 1/8" = 1'-0"

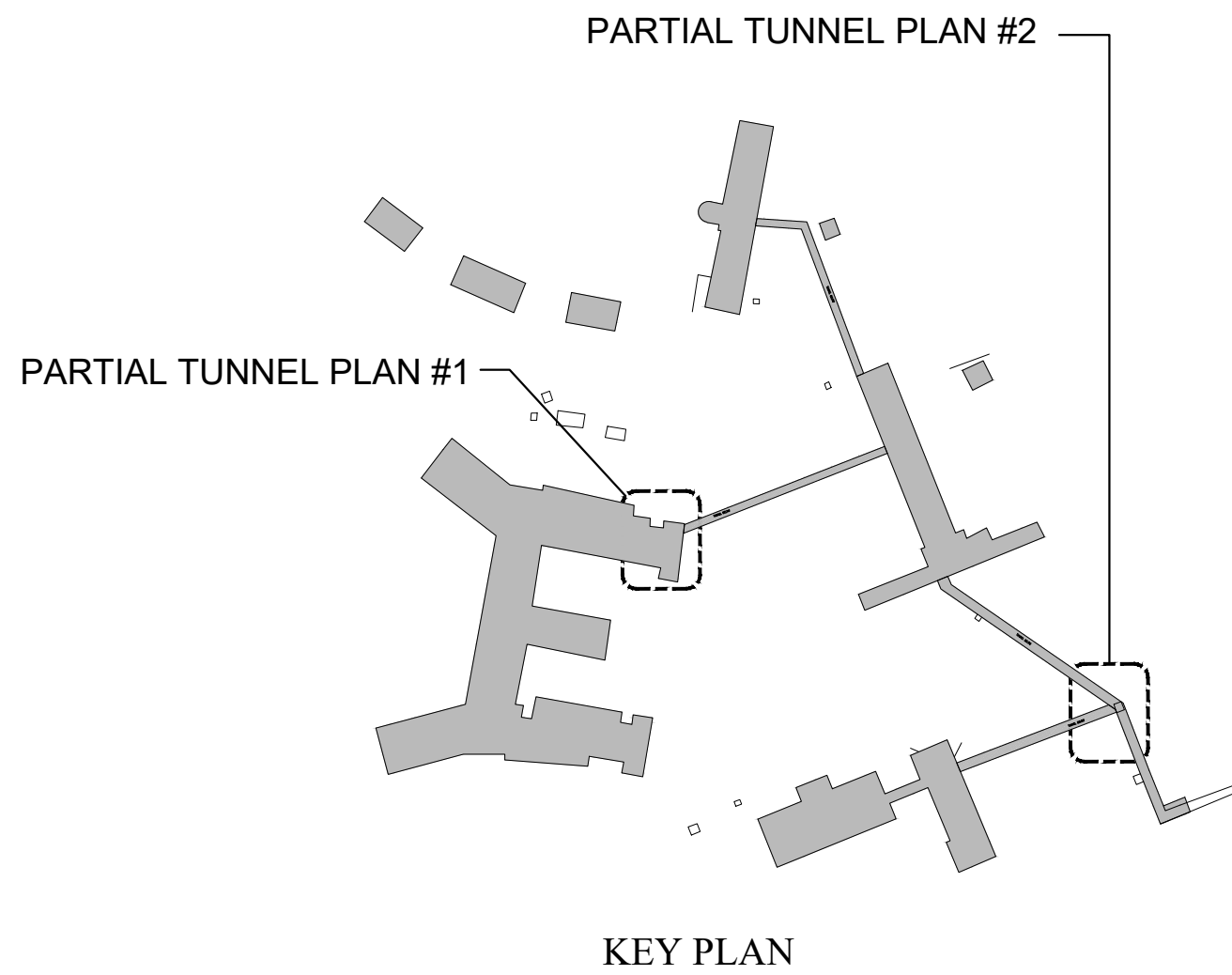


2 MECHANICAL - PARTIAL TUNNEL PLAN #2  
M200 SCALE: 1/8" = 1'-0"

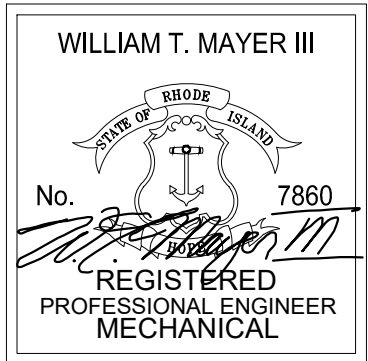
PREFABRICATED CONDUIT SCHEDULE												
CARRIER PIPE			CARRIER INSULATION		INNER CONDUIT			INNER CONDUIT INSULATION		OUTER JACKET		
SIZE & SERVICE	CARRIER O.D.	TYPE	TYPE	THICKNESS	TYPE	O.D.	AIR SPACE	TYPE	MIN. THICKNESS	TYPE	O.D.	MIN. WALL THICKNESS
5" HPS	5.563"	SCHEDULE-40 A106B SEAMLESS STEEL	PYROGEL XT-E	1.38" (35mm)	10-GA. STEEL	10.75"	1.0795"	400°F POLYISOCYANURATE FOAM	1.53"	HDPE	14.16"	0.175"
3" CR	3.500"	SCHEDULE-80 A106B SEAMLESS STEEL	PYROGEL XT-E	0.39" (10mm)	10-GA. STEEL	6.625"	1.0385"	400°F POLYISOCYANURATE FOAM	1.54"	HDPE	10.07"	0.175"

EXPANSION LOOP SCHEDULE								
DESIGNATION	SIZE & SERVICE	THERMAL EXPANSION	EXPANSION LOOP SIZE		OVERSIZE EXPANSION - TYPE CONDUIT & JACKET			COLD SPRING REQUIRED
			HEIGHT	WIDTH	INNER 10-GA. STEEL CONDUIT O.D.	AIR SPACE	OUTER HDPE JACKET O.D.	
EXL-1	5" HPS	6.65"	11'-0"	11'-0"	14.00"	2.7045"	17.95"	1-5/8"
	3" CR	3.59"	6'-0"	6'-0"	8.625"	2.0385"	12.52"	1"
EXL-2	5" HPS	5.06"	9'-0"	10'-6"	12.75"	2.0795"	15.98"	1-1/4"
	3" CR	2.73"	6'-0"	6'-0"	8.825"	2.0385"	12.52"	5/8"

DESIGN CRITERIA					
SERVICE	PRESSURE	TEMPERATURE	AMBIENT TEMP.	△ TEMP.	STEEL PIPE EXPANSION RATE
HPS	100 PSIG	338°F	50°F	288°F	2.333"/100'
CR		210°F	50°F	160°F	1.260"/100'



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**Zambrano**  
**2090 Wallum Lake Road**  
**Burrillville, RI 02859**

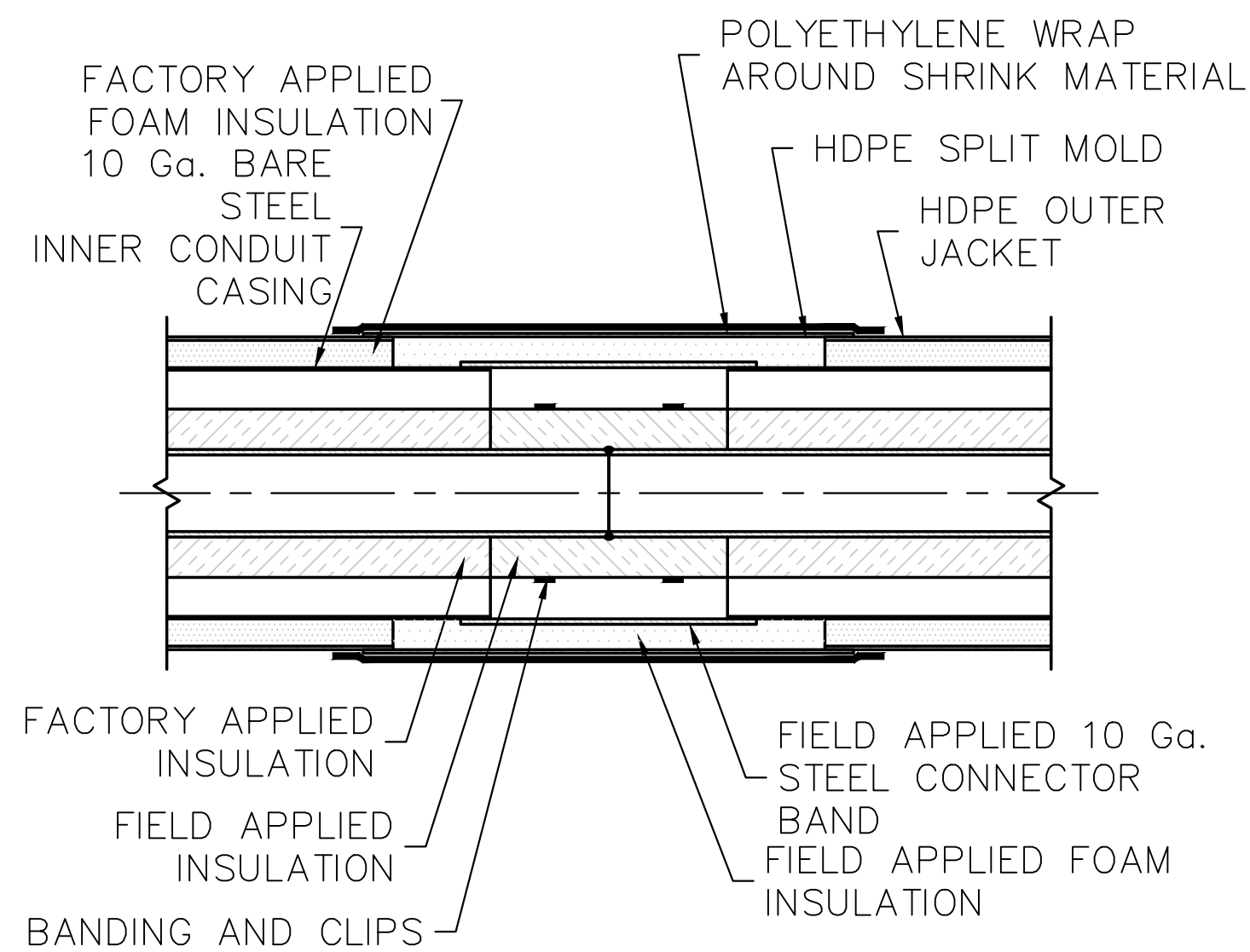
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SHEET TITLE:  
**MECHANICAL:**

**PARTIAL PLANS & SCHEDULES**

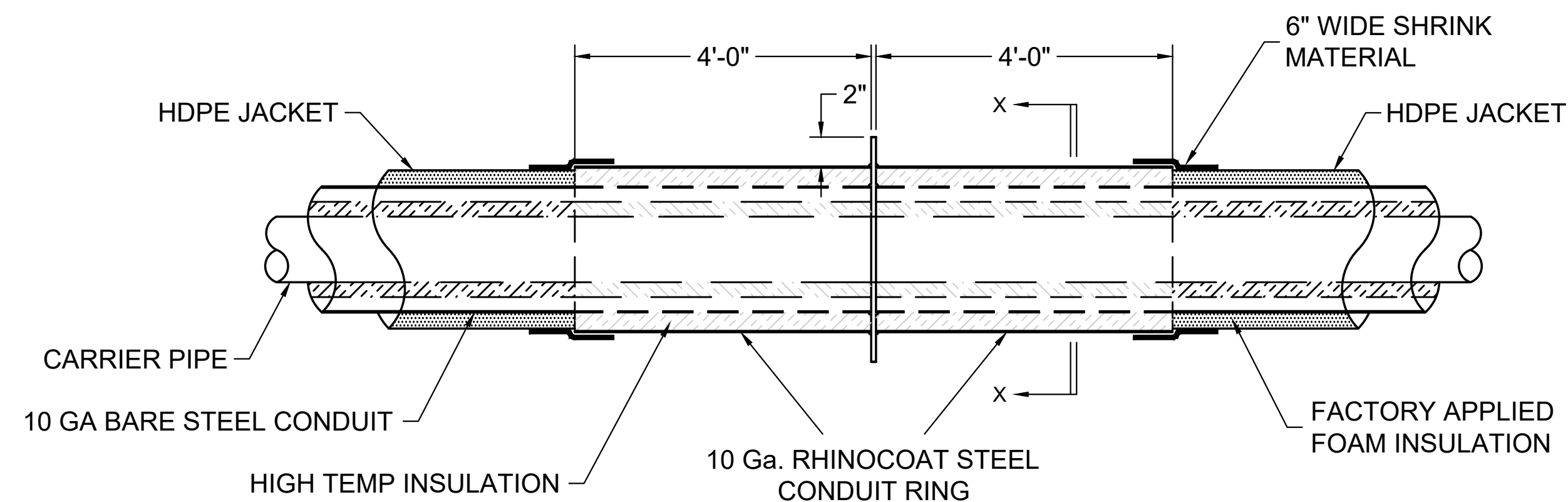
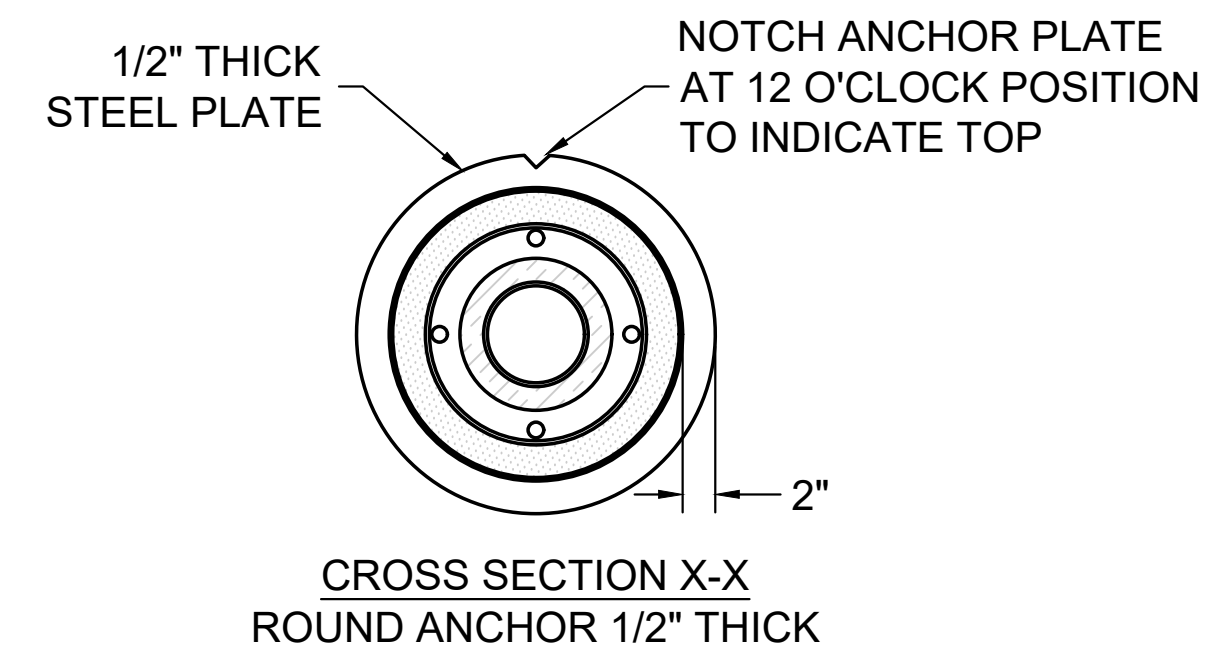
JOB NO.: 24030MU  
DRAWN BY: KB  
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SHEET NO.:  
**M200**

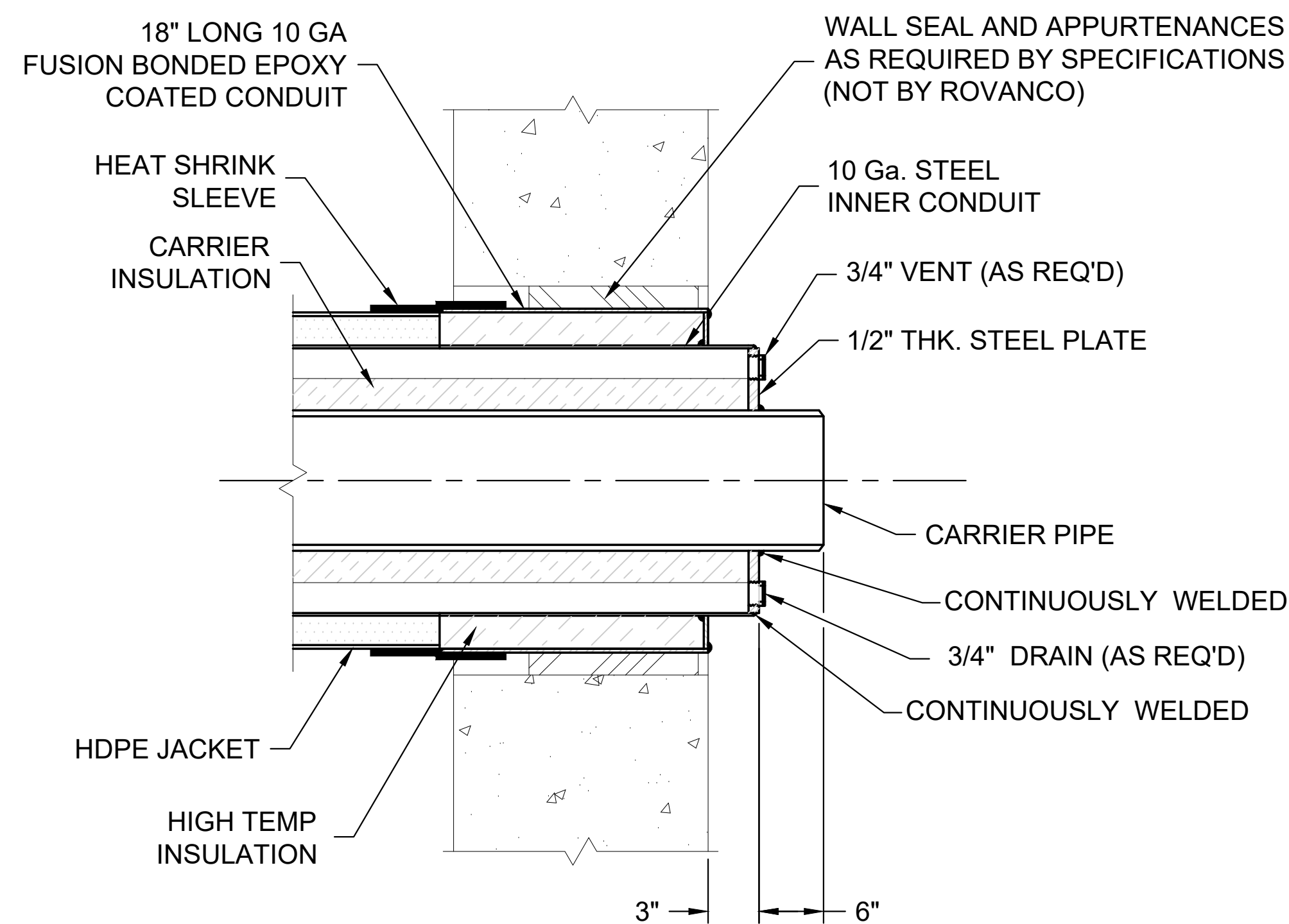




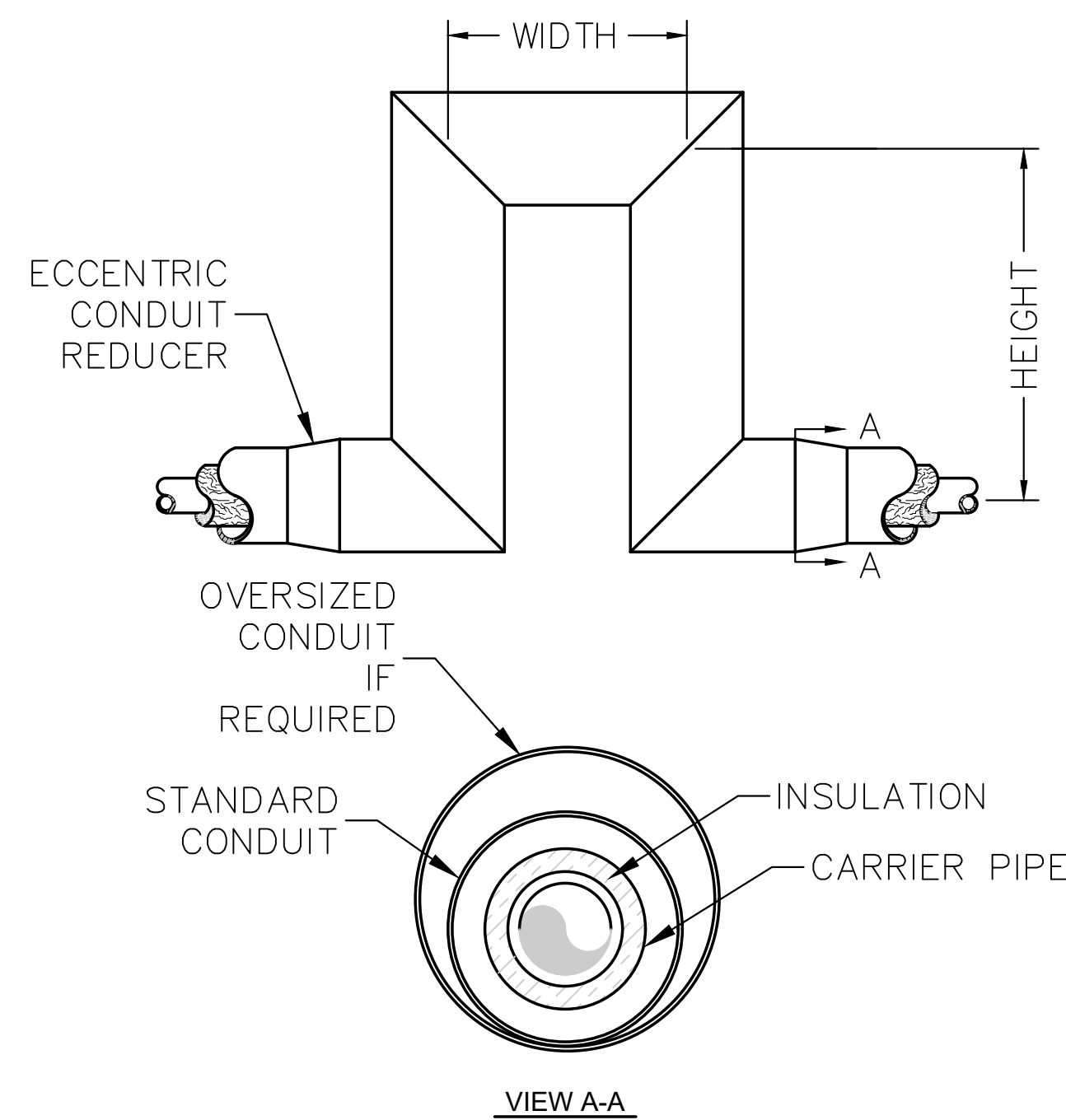
**1** INSUL-800 FIELD JOINT DETAIL  
N.T.S.



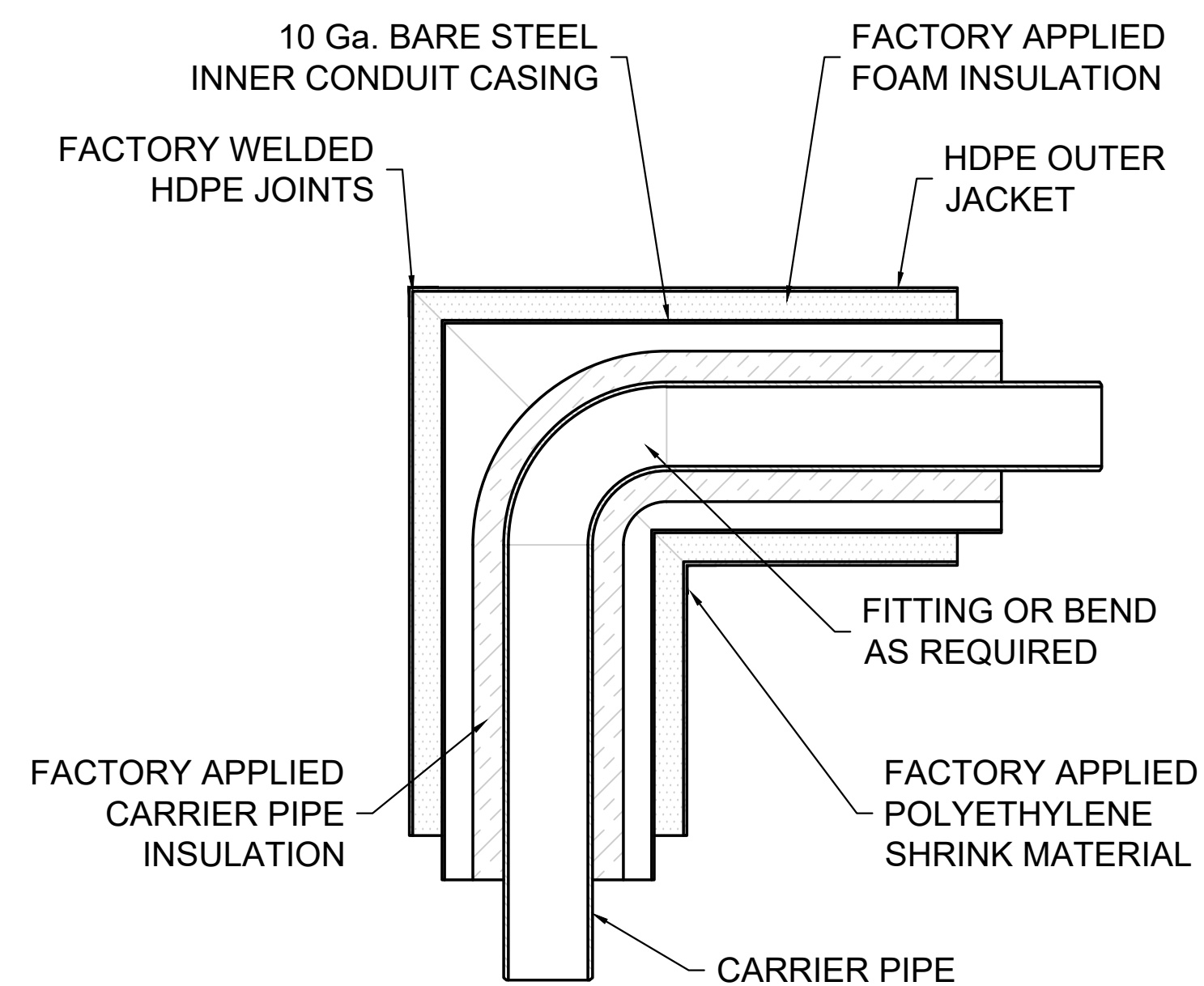
**2** INSUL-800 ANCHOR DETAIL  
N.T.S.



**3** INSUL-800 CONDUIT END SEAL DETAIL  
N.T.S.



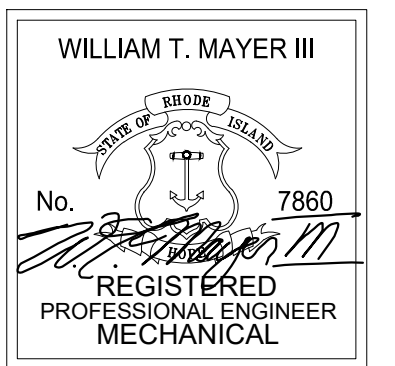
**4** CONDUIT TYPICAL EXPANSION LOOP DETAIL  
N.T.S.



**5** INSUL-800 MITERED ELBOW DETAIL  
N.T.S.

ALL OF OUR DIMENSIONS ARE TAKEN FROM  
END OF CARRIER PIPE AT WALL PENETRATIONS.

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**Zambrano**  
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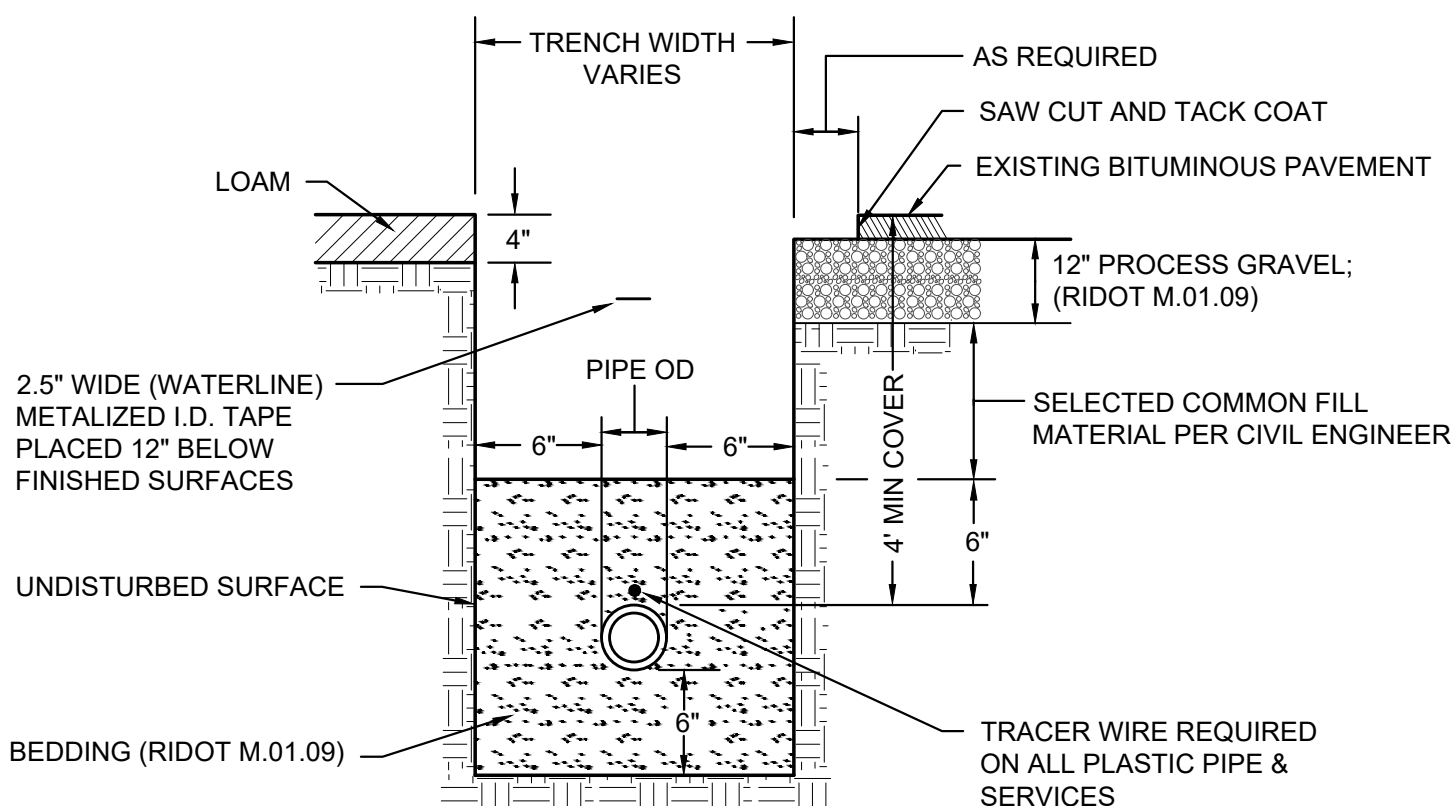
SHEET TITLE:  
**MECHANICAL:  
DETAILS**

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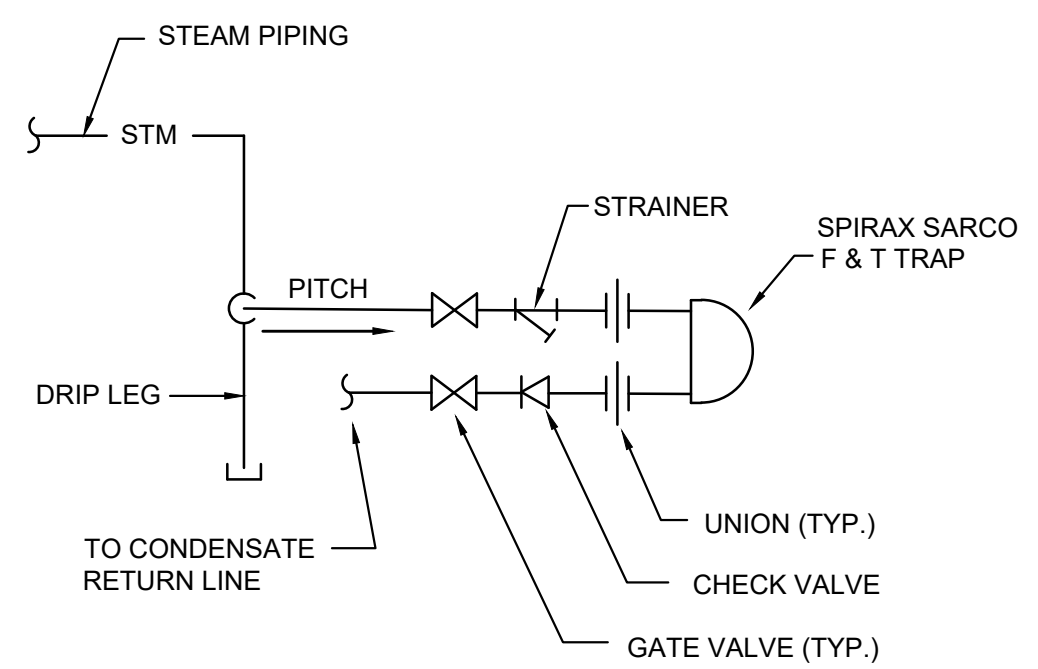
**M300**



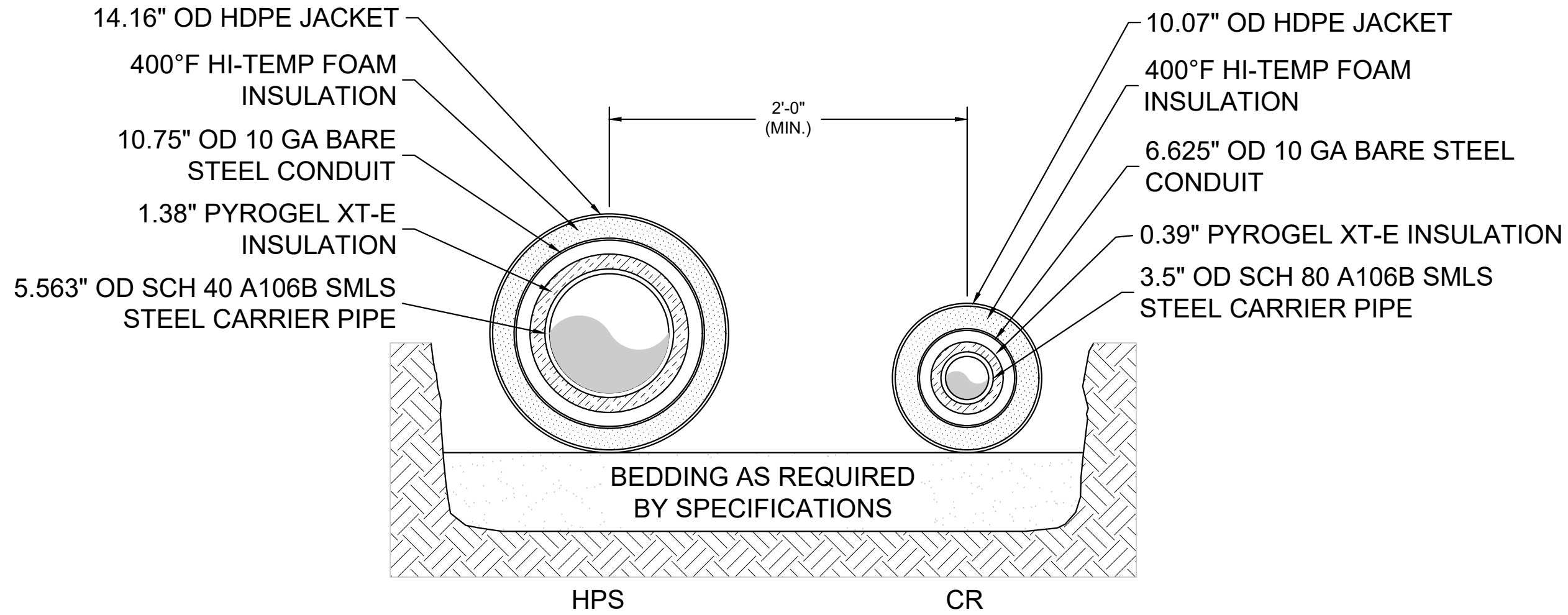


- NOTES:
- 1. ALL MATERIAL, BEDDING AND BACKFILL SHALL BE INSPECTED AND APPROVED BY AHJ PRIOR TO BACKFILLED AND/OR ACTIVATED.
  - 2. ROADWAY AND SIDEWALK RESTORATION SHALL BE PERFORMED IN ACCORDANCE WITH ALL MUNICIPAL OR RIDOT PERMIT REQUIREMENTS.
  - 3. WHENEVER THERE IS A DISCREPANCY BETWEEN THIS DETAIL AND RIDOT SPECIFICATIONS, THE RIDOT SPECIFICATIONS SHALL GOVERN.

6 TYPICAL TRENCH DUCT  
N.T.S.



7 TYPICAL DRIP TRAP DETAIL  
NO SCALE



8 TRENCH CROSS SECTION "A" - "A"  
N.T.S.

CERTIFICATION :  

WILLIAM T. MAYER III  
No. 7860  
REGISTERED PROFESSIONAL ENGINEER MECHANICAL

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M301



UNDERGROUND STEAM AND CONDENSATE PIPING:

Part 1 - GENERAL

UNDERGROUND STEAM AND CONDENSATE PIPES SHALL BE INSUL-800 ELITE AS MANUFACTURED BY ROVANCO PIPING SYSTEMS, INC. STEAM AND CONDENSATE PIPES SHALL BE IN SEPARATE INSUL-800 CONDUITS.

Part 2 - PRODUCTS

CARRIER PIPES:

STEAM CARRIER PIPE SHALL BE DOMESTIC CARBON STEEL, SCHEDULE 40, ASTM A-106, GRADE B, SEAMLESS. CONDENSATE RETURN CARRIER PIPE SHALL BE CARBON STEEL, SCHEDULE 80, ASTM A106, GRADE B, SEAMLESS.

CARRIER PIPE INSULATION:

SHALL BE PYROGEL XT-E WITH A K FACTOR OF 0.16 AT 212F, AS MANUFACTURED BY ASPEN AEROGELS. SECTIONAL INSULATION SHALL BE BANDED ON PIPE WITH STAINLESS STEEL BANDING ON 18" CENTERS.

INNER PIPE SUPPORTS:

ALL PIPES SHALL BE ALIGNED AND SUPPORTED WITHIN THE INNER CONDUIT CASING WITH GALVANIZED STEEL SUPPORTS SPACED ON 10' CENTERS. THE CARRIER PIPES SHALL NOT BEAR DIRECTLY ON THE STEEL SUPPORT. SUPPORTS SHALL BE DESIGNED TO PERMIT DRAINAGE AND FREE AIR PASSAGE. ALL PIPES PASSING THROUGH SUPPORTS SHALL BE INSULATED.

INNER CONDUIT CASING:

CASING SHALL BE 10 GAUGE BLACK STEEL. THE INTERIOR SURFACE SHALL BE SMOOTH TO PERMIT FREE MOISTURE DRAINAGE AND REMOVABILITY OF THE INNER ASSEMBLY. THE OUTER CASING SHALL BE SIZED TO PROVIDE AN ADEQUATE ANNULAR SPACE BETWEEN THE OUTER SURFACE OF THE INSULATION MATERIAL AND THE INTERIOR SURFACE OF THE CASING. INNER CONDUIT CASING FIELD JOINT CLOSURES CONSIST OF 10 GAUGE STEEL AND SHALL BE FIELD WELDED OVER ADJACENT UNITS.

INNER CONDUIT CASING INSULATION:

SHALL BE HIGH-TEMP POLYISOCYANURATE FOAM INSULATION, MINIMUM 1-1/2" THICKNESS, RATED FOR A CONTINUOUS OPERATING TEMPERATURE OF +400 DEG. F (202 DEG. C), WITH INTERMITTENT SERVICE TO +450 DEG. F (230 DEG. C) APPLIED TO THE INNER CONDUIT CASING HAVING THE FOLLOWING PROPERTIES:

PHYSICAL PROPERTIES:

PHYSICAL PROPERTIES *		
Property	ASTM Test Method	Result
Density, pcf (kg/m³)	D-1622	2.45 (38.5)
Compressive Strength, psi (kPa) @ 10% Deflection Parallel to Rise Perpendicular to Rise	D-1621	30 (207) 27 (189)
Closed Cell Content, %	D-2856	87
k-Factor, BTU-in/hr. ft² °F (W/mK) Initial Aged 180 Days @ 75° F (25° C) Aged 90 Days @ 140° F (60° C)	C-618	0.13 (0.016) 0.165 (0.022) 0.19 (0.026)
Water Absorption, psf (g/cm³) % by Volume	D-2942	0.035 (0.017) <2
DIMENSIONAL STABILITY, % Change Dry Heat, 400° F (202° C) 1 Day 7 Days 25 Days	D-2126	Length +1.3 +2.3 +1.6 Volums +0.1 -2.3 -4.4
Service Temperature Continuous Intermittent		-100° F (-73° C) to +400° F (202° C) To +450° F (230° C)
Surface Burning Characteristics¹ Flame Spread, 1" Smoke Developed	E-94	40 80

¹ The numerical flame spread and smoke developed data shown above is not intended to reflect fire hazards presented under actual fire conditions.

INSULATION MUST BE CAPABLE OF HANDLING INTERMITTENT TEMPERATURE SPIKES TO 450F FOR 8-12 HOURS. INSULATION MUST COMPLETELY FILL THE ANNULAR SPACE BETWEEN THE INNER CONDUIT CASING AND OUTER HDPE JACKET CASING. SYSTEM SUPPLIER SHALL PROVIDE WRITTEN TEMPERATURE PERFORMANCE CERTIFICATION FROM FOAM INSULATION MANUFACTURER AND AN INDEPENDENT TESTING AGENCY REPORT AND CERTIFICATION THAT THE INSULATION TO BE PROVIDED MEETS THE ABOVE REFERENCED PERFORMANCE STANDARDS.

OUTER JACKET CASING:

THE EXTERIOR PROTECTIVE JACKET SHALL BE HEAVYWEIGHT, SEAMLESS, MINIMUM 175 MILS THICKNESS HIGH IMPACT, POLYETHYLENE (HDPE).

- REFERENCE SPECIFICATION:
  - ASTM D3350-12 STANDARD SPECIFICATION FOR POLYETHYLENE PLASTIC PIPE AND FITTINGS MATERIALS.
- MATERIAL:
  - CASING SHALL BE A CONTINUOUS PIPE EXTRUSION.
  - MATERIAL USED FOR THE MANUFACTURE OF POLYETHYLENE CASING SHALL BE HIGH-DENSITY POLYETHYLENE WITH A MINIMUM CELL CLASSIFICATION OF PE334360C WHEN CLASSIFIED IN ACCORDANCE WITH ASTM D3350-12.
  - CASING CAN EITHER BE MADE FROM FULLY COMPOUNDED MATERIAL, OR A DRY BLEND OF VIRGIN RESIN AND BLACK COLOR CONCENTRATE, OR FROM GENERAL REGRIND MATERIALS CONTAINING NOT MORE THAN 50% MDPE RESINS AND VIRGIN AND BLACK COLOR CONCENTRATE.
  - THERE SHALL BE A MINIMUM OF 2% AND A MAXIMUM OF 3% WELL DISPERSED CARBON BLACK IN THE RESULTANT PIPE.
  - THE CASING PIPE SHALL BE HOMOGENOUS THROUGHOUT AND UNIFORM IN COLOR, OPACITY, AND DENSITY. THE INSIDE AND OUTSIDE SURFACES SHALL BE FREE OF CHALKING, AND FREE OF STICKY OR TACKY MATERIAL. THE CASING WALLS SHALL BE FREE OF CRACKS, VOIDS, AND FOREIGN INCLUSION, OF SIZE, SHAPE, AND DISTRIBUTION THAT CAN AFFECT THE WALL INTEGRITY. VOIDS EXCEEDING .06" SHALL BE CONSIDERED DELETERIOUS AND WILL BE CAUSE FOR REJECTION OF THE CASING PIPE.
  - THE PIPE SUPPLIER SHALL CERTIFY, IN WRITING, COMPLIANCE WITH THE REQUIREMENTS OF THIS PARAGRAPH.
- MARKING:
  - THE FOLLOWING SHALL BE CONTINUOUSLY INDENT OR INK-JET PRINTED ON THE PIPE, OR SPACED AT INTERVALS NOT EXCEEDING FIVE FEET:
    - NAME AND/OR TRADEMARK OF PIPE MANUFACTURER.
    - NOMINAL SIZE X AVE. WALL THICKNESS.
    - PRODUCTION CODE FROM WHICH THE DATE AND PLACE OF MANUFACTURE CAN BE DETERMINED.
- REQUIREMENTS:
  - THE THERMAL STABILITY OF THE CASING SHALL EXCEED 220 DEG. C WHEN TESTING IN ACCORDANCE WITH ASTM D3350.
  - THE RADIAL TENSILE ELONGATION SHALL SHOW YIELDING IN THE STRESS STAIN CURVE AND EXHIBIT A MINIMUM ELONGATION OF 200% AND A TENSILE VALUE OF 2500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D638.
  - THE CIRCUMFERENTIAL TENSILE ELONGATION SHALL SHOW YIELDING IN THE STRESS STAIN CURVE AND EXHIBIT A MINIMUM ELONGATION OF 200% AND EXHIBIT A MINIMUM TENSILE VALUE AT YIELD OF 2500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D5638.
  - THE MANUFACTURER SHALL PROVIDE, UPON REQUEST, AN OUTLINE OF THE MANUFACTURING CONTROL PROCESS USED TO VERIFY MATERIAL, PRODUCTION AND QUALITY OF THE FINISHED CASING PRODUCT.

FIELD JOINTS:

FIELD JOINTS SHALL BE INSULATED WITH PYROGEL XT-E ON CARRIER AND HALF SHELLS OF HIGH TEMP POLYISOCYANURATE FOAM FOR OUTER INSULATION. THE OUTER POLYETHYLENE JOINT SHALL BE SEALED WITH CANUSA 60 MIL HEAT-SHRINKABLE WRAP-AROUND SLEEVES.

EXPANSION LOOPS AND ELBOWS:

EXPANSION LOOPS, EXPANSION ELBOWS AND OTHER FITTINGS SHALL BE PRE-FABRICATED AND FURNISHED IN THE SAME TYPES AND THICKNESS OF INSULATION AND CASING AS THOSE FOR THE STRAIGHT SECTION OF THE PIPING SYSTEM. THEY WILL BE OF A SIZE TO PERMIT THE INNER PIPE OR PIPES TO EXPAND AND CONTRACT WITHOUT DAMAGE TO THE INSULATION MATERIAL.

FITTINGS:

ALL CHANGES IN DIRECTION OF THE CARRIER PIPE SHALL BE MADE WITH FITTINGS. MITERING OR BENDING OF PIPE WILL NOT BE PERMITTED. WHEN TEE BRANCHES ARE SMALLER THAN THE MAIN THEY JOIN, WELD-OLETS MAY BE USED. ALL WELD FITTINGS SHALL BE THE SAME WALL THICKNESS AS ADJACENT PIPING.

ANCHORS:

ANCHORS SHALL BE PRE-FABRICATED ONTO THE PIPING UNITS AND SHALL BE EQUIPPED WITH DRAIN AND VENT OPENINGS AT THE TOP AND BOTTOM OF THE ANCHOR PLATE. ANCHOR PLATES SHALL BE MADE OF MINIMUM 3/4" STEEL PLATES.

END SEALS AND GLAND SEALS:

TERMINAL ENDS OF CONDUITS INSIDE MANHOLES, PITS OR BUILDINGS SHALL BE EQUIPPED WITH END SEALS CONSISTING OF A STEEL BULKHEAD PLATE WELDED TO THE CONDUIT AND CARRIER PIPE IF THERE IS AN ANCHOR WITHIN FIVE FEET OF THE END SEAL. WHERE THERE IS NO ANCHOR WITHIN FIVE FEET OF A TERMINAL END, CONDUITS SHALL BE EQUIPPED WITH GLAND SEALS CONSISTING OF A HIGH TEMP GASKET AND FOLLOWER PLATE. END SEALS OR GLAND SEALS SHALL BE MADE OF ½" STEEL PLATE WITH DRAIN AND VENT OPENINGS ON THE VERTICAL CENTER LINE OF THE MOUNTING PLATE.

CORROSION PROTECTION OVERLAY:

ALL EXPOSED STEEL SURFACES OF ANCHORS END SEALS AND GLAND SEALS WILL BE PROTECTED FROM CORROSION WITH 6-8 MILS THICKNESS OF MOLTEN METAL, RESULTING IN AN ANODIC METALLIC OVERLAY AND SHALL BE ROVANCO SILVERTIP TREATMENT. THE STEEL SURFACE MUST BE SHOT BLASTED TO A NEW WHITE FINISH TO SSPC-10.

PART 3 - EXECUTION

FIELD TESTS:

THE CARRIER PIPES SHALL BE FIELD TESTED HYDROSTATICALLY TO 1-1/2 TIMES THE SYSTEM OPERATING PRESSURE OR 150-PSIG, WHICHEVER IS GREATER, FOR NOT LESS THAN FOUR HOURS. THE 10 GAUGE STEEL INNER CONDUIT CASING SHALL BE TESTED WITH AIR AT 15 PSIG. ALL LEAKS SHALL BE REPAIRED AND THE TEST REPEATED. AFTER TEST, ALL FIELD JOINTS SHALL BE INSULATED AND SEALED WATER TIGHT.

BACKFILL:

CLEAN, GRANULAR BACKFILL SHOULD BE TAMPED IN PLACE SO AS TO ASSURE A STABLE SURFACE. NO ROCK SHOULD BE USED WITHIN 24" OF THE PIPE. TOP OF PIPE TO GRADE SHALL NOT BE LESS THAN 24" TO MEET H-20 HIGHWAY LOADING.

INSTALLATION:

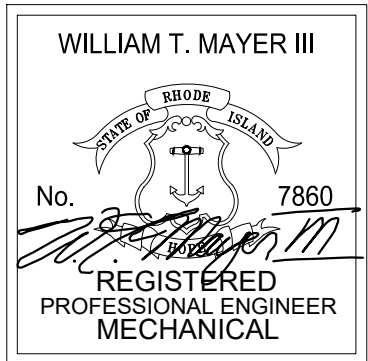
THE INSTALLATION SHALL BE MADE IN ACCORDANCE WITH PLANS, SPECIFICATIONS, AND MANUFACTURERS' INSTALLATION INSTRUCTION. PIPE SYSTEM SUPPLIER WILL PROVIDE AN INSTALLATION INSTRUCTOR ON SITE FOR ONE DAY TO TRAIN THE CONTRACTOR IN ALL PHASES OF INSTALLATION.

APPROVED VENDOR:

INSUL-800 MANUFACTURED BY ROVANCO PIPING SYSTEMS, INC., JOLIET, ILLINOIS; OR APPROVED EQUAL.

TEST REPORTS MUST BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY THAT THE HIGH TEMPERATURE POLYISOCYANURATE INSULATION AND THE POLYETHYLENE (HDPE) JACKET CASING MATERIAL HAVE BEEN TESTED TO AND MEET ALL ASTM STANDARDS LISTED IN THE "INNER CONDUIT INSULATION" AND "OUTER JACKET" SECTION OF THE SPECIFICATIONS.

CERTIFICATION :



THIS DRAWING IS A PART OF AN INTEGRATED SET OF CONSTRUCTION CONTRACT DOCUMENTS. REFER TO ALL DRAWINGS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO "GENERAL CONDITIONS", "SUMMARY OF WORK", AND ANY APPLICABLE MANUFACTURERS TECHNICAL SPECIFICATIONS.

REFER TO ALL DRAWINGS FOR COMPLETE SCOPE OF WORK.

THIS DRAWING IS NOT TO BE SCALED OR USED AS AN AS-BUILT.

REV. NO.	DATE	DESCRIPTION

**ENGINEERING DESIGN SERVICES**  
INCORPORATED  
141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

PROJECT NAME:

**Zambarano**  
**2090 Wallum Lake Road**  
**Burrillville, RI 02859**

SHEET TITLE:

**MECHANICAL:**  
**SPECIFICATIONS**

JOB NO.: 24030MU  
DRAWN BY: KB  
CHECKED BY: WM  
DATE ISSUED: 03/06/2025  
SCALE: AS NOTED

SHEET NO.:

**M400**



TYPICAL DEMOLITION NOTES:

1. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. RENOVATION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER. FIELD VERIFY MEASUREMENTS AND CIRCUITING ARRANGEMENTS THAT ARE AS SHOWN ON DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL OF THE ARCHITECTS AND OTHER TRADES DRAWINGS TO VERIFY ALL AREAS OF RENOVATION AND TO GET A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED BY THIS PROJECT.

2. FIELD VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.

3. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATIONS. THESE DRAWINGS HAVE BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION AND ARE NOT INTENDED TO LIMIT THE SCOPE OF THE WORK. THE ELECTRICAL CONTRACTOR MAY ENCOUNTER HIDDEN OR COVERED CONDITIONS, NOT INDICATED IN THESE DOCUMENTS, REQUIRING THE ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL WORK FOR THE COMPLETION OF HIS OR HER CONTRACT. IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE PRIOR TO BIDDING AND VERIFIED THE INFORMATION SUPPLIED HEREIN AND ADDITIONAL WORK REQUIRED. BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS EXISTING CONDITIONS. REFER TO ALL CONSTRUCTION DOCUMENTS TO GAIN A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED.

4. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING, BUT NOT LIMITED TO, REMOVAL OF ELECTRICAL ITEMS INDICATED TO BE REMOVED AND ITEMS MADE OBSOLETE BY THE WORK. DISCONNECT AND REMOVE ALL FIXTURES, WIRING DEVICES, CONDUIT AND FITTINGS, WIRING & CABLE, FIRE ALARM DEVICES, COMPONENTS, HANGERS, SUPPORTS, WIREWAYS, AND ALL OTHER ELECTRICAL COMPONENTS MADE OBSOLETE BY THIS PROJECT. THE OWNER RESERVES THE OPTION OF SALVAGE RIGHTS TO DEMOLISHED MATERIAL AND REMOVED EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO OBTAIN A LIST OF MATERIALS AND REMOVED EQUIPMENT TO BE TURNED OVER TO THE OWNER. ALL OTHER MATERIAL AND REMOVED EQUIPMENT NOT BEING SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. PLACE ALL DEMOLISHED ELECTRICAL MATERIALS EXCEPT HAZARDOUS MATERIALS (POB LIGHTING BALLASTS, FLUORESCENT LAMPS, ETC.) AS DETERMINED BY THE AUTHORITY HAVING JURISDICTION IN GENERAL CONTRACTOR'S DUMPSTER. ALL HAZARDOUS ELECTRICAL MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE ELECTRICAL SUBCONTRACTOR.

5. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

6. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANELS AS APPROPRIATE. TEMPORARY WALL OPENINGS AND/OR MODIFICATIONS REQUIRED FOR INSTALLATION OF EQUIPMENT SHALL BE PROVIDED AND AS NEEDED AND COORDINATED WITH THE GENERAL CONTRACTOR. ALL HVAC UNITS SCHEDULED TO BE REMOVED OR RE-LOCATED SHALL BE DONE SO BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND MAKE-SAFE FOR REMOVAL.

7. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

8. EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER, ARCHITECT/ENGINEER AND LOCAL FIRE DEPARTMENT AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA AS REQUIRED.

9. EXISTING FIRE ALARM SYSTEM: MAINTAIN THE EXISTING SYSTEM IN SERVICE UNTIL THE NEW SYSTEM IS TESTED AND ACCEPTED BY THE FIRE DEPARTMENT. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER, ARCHITECT/ENGINEER AND LOCAL FIRE DEPARTMENT AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA AS REQUIRED OR PROVIDE A "FIRE-WATCH" SYSTEM COORDINATED WITH THE LOCAL FIRE DEPARTMENT.

10. EXISTING TELEPHONE SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER, ARCHITECT/ENGINEER AND TELEPHONE UTILITY COMPANY AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

11. EXTEND EXISTING ELECTRICAL INSTALLATIONS AS CALLED FOR ON THE DRAWINGS.

12. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

13. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.

14. REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.

15. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

16. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT.

17. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.

18. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

19. DISCONNECT AND REMOVE OTHER SYSTEMS AND EQUIPMENT WITHIN THE WORK AREA MADE OBSOLETE BY THIS WORK.

20. PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, LIGHT FIXTURES, WIRING, DEVICES, SYSTEMS, ETC. WHICH ARE TO REMAIN & TO PREVENT DAMAGE AND/OR POWER OUTAGES DURING ALL CONSTRUCTION PHASES. REPAIR ADJACENT EXISTING ELECTRICAL INSTALLATIONS, CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS. PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED. PROTECT THE ELECTRICAL WORK AND THE WORK OF OTHERS IN A MANNER BEST SUITED TO THE PARTICULAR CASE. CORRECT ANY DAMAGE DONE TO ANY EXISTING INSTALLATIONS OR NEW WORK AT NO ADDITIONAL COST TO THE OWNER.

21. THE DEMOLITION, REDISTRIBUTION AND REPAIR WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR BASED ON THE APPROACH IN WHICH THE ELECTRICAL CONTRACTOR PROVIDES THE INVESTIGATION & TRACING OF CIRCUITS NEEDED TO SATISFY PERFORMANCE CRITERIA OUTLINED IN THESE TYPICAL DEMOLITION NOTES AND OTHER REQUIREMENTS LISTED HEREIN.

22. WHERE ANY EXISTING BRANCH CIRCUITS ARE CURRENTLY SERVING DEVICES, FIXTURES OR EQUIPMENT IN BOTH DEMOLITION SPACES AND NON-DEMOLITION SPACES, THOSE CIRCUITS SHALL BE SEPARATED AND RE-CONNECTED SUCH THAT THE EXISTING TO REMAIN DEVICES, FIXTURES OR EQUIPMENT WILL RETAIN POWER AS NECESSARY. THE E.C. SHALL BE RESPONSIBLE FOR TRACING BRANCH CIRCUITRY AND DETERMINING EXTENT OF WORK. THE E.C. SHALL PROVIDE NEW BRANCH CIRCUITRY AS REQUIRED TO EXTEND EXISTING BRANCH CIRCUITS TO CORRESPONDING CIRCUIT BREAKERS THAT ARISE FROM THE REDISTRIBUTION OF CIRCUITS DESCRIBED ABOVE.

23. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

24. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.

25. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.

26. EXISTING PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL ALL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT. CIRCUIT BREAKERS LEFT UN-USED AFTER CONSTRUCTION IS COMPLETED SHALL BE TURNED IN THE OFF POSITION AND RECORDED AS "SPARE" IN CIRCUIT BREAKER DIRECTORY.

ABBREVIATIONS											
A	AMPERES	DN	DOWN	GFCI	GROUND FAULT CIRCUIT INTERRUPTER.	MAX	MAXIMUM	RE	RE-LOCATED DEVICE OR EQUIPMENT SHOWN IN NEW LOCATION		
ADA	AMERICANS WITH DISABILITIES ACT	DWG	DRAWING	ICC	INTERNATIONAL CODE COUNSEL	M.C.	MECHANICAL CONTRACTOR				
AMPS	AMPERES			G	GROUND	MECH	MECHANICAL	TYP	TYPICAL		
AFF	ABOVE FINISHED FLOOR	E.C.	ELECTRICAL CONTRACTOR	GND	GROUND	MIN	MINIMUM	UL	UNDERWRITERS LABATORY		
A/C	AIR CONDITIONING	EQ	EQUAL	HVAC	HEATING, VENTILATING, & AIR CONDITIONING	MTD	MOUNTED	UON	UNLESS OTHERWISE NOTED		
ANSI	AMERICAN NATION STANDARDS INSTITUTE	ETR	EXISTING TO REMAIN			NAC	F.A. NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANEL	UPS	UNINTERRUPTIBLE POWER SUPPLY		
AWG	AMERICAN WIRE GAGE	ER	EXISTING TO BE REMOVED	I.T.	INFORMATION TECHNOLOGY	NEC	NATIONAL ELECTRICAL CODE	V	VOLTS		
C	CONDUIT	ERL	EXISTING TO BE RE-LOCATED	JB	JUNCTION BOX	NTS	NOT TO SCALE	W	WATTS		
C/B	CIRCUIT BREAKER	F.A.	FIRE ALARM	KVA	KILOVOLT-AMPERES	P	POLE	WP	WEATHER-PROOF		
CF	COMPACT FLUORESCENT	FACP	FIRE ALARM CONTROL PANEL	KW	KILOWATT	P.C.	PLUMBING CONTRACTOR	☿	CENTERLINE		
CLG	CEILING	FLR	FLOOR	LTG	LIGHTING	PNL	PANEL				
		G.C.	GENERAL CONTRACTOR								

BRANCH CIRCUIT PANELBOARD SCHEDULE														
DESIGNATION	BUS AMPS	MAIN	LOCATION	VOLTAGE	PH	BREAKERS						TOTAL POLES	MOUNTING	REMARKS
						USED			SPARE					
						1-POLE	2-POLE	3-POLE	1-POLE	2-POLE	3-POLE			
SC-P1	225/3	225/3	SEE FLR. PLANS	208Y/120	3	(12) 20A, (2) 30A	(2) 15A, (2) 20A, (2) 30A	(2) 125A	(5) 20A	-	-	42	SURFACE	NEMA-4X STAINLESS STEEL. 65,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).
T-P1	225/3	225/3	SEE FLR. PLANS	208Y/120	3	(8) 20A, (2) 25A	(2) 15A, (2) 20A, (2) 30A	(1) 50A, (1) 100A	(5) 20A	-	-	42	SURFACE	NEMA-4X STAINLESS STEEL. 65,000 A.I.C. PROVIDE WITH SURGE PROTECTION DEVICE. (SEE SPD NOTES ON THIS DRAWING).
NOTES: 1. ALL PANELBOARDS SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE ON THE DOOR INDICATING THE PANELBOARD DESIGNATION, VOLTAGE, RATING OF MCB OR MAIN LUGS AND SOURCE OF SUPPLY. ENGRAVED PLATE SHALL BE AS CALLED FOR IN THE SPECIFICATIONS. 2. ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPED (HAND WRITTEN IS NOT ALLOWED) CIRCUIT DIRECTORY INDICATING THE LOAD FED BY EACH CIRCUIT BREAKER AND ITS LOCATION IN THE BUILDING. 3. ALL PANELBOARDS SHALL BE PROVIDED WITH FULL SIZE EQUIPMENT GROUND AND NEUTRAL BUSSES ON EACH SIDE OF THE ENCLOSURE SO AS TO PROVIDE A SEPARATE EQUIPMENT GROUND AND NEUTRAL TERMINAL FOR EACH BRANCH CIRCUIT. 4. SPACES SHALL BE PROVIDED WITH ALL REQUIRED BUSSING, SUPPORTS, CONNECTORS, ETC. NECESSARY FOR FUTURE INSTALLATION OF CIRCUIT BREAKERS. 5. REFER TO THE SPECIFICATIONS FOR ALL OTHER PANELBOARD REQUIREMENTS. SERIES RATED AND ALUMINUM ARE NOT ALLOWED. 6. ALL PANELBOARDS AND CIRCUIT BREAKERS SHALL BE FULLY RATED. SERIES RATED EQUIPMENT SHALL NOT BE USED. 7. ALL BUSSING SHALL BE COPPER. ALUMINUM BUSSING SHALL NOT BE USED.														







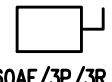


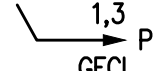

SURGE PROTECTION DEVICE NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SURGE PROTECTION DEVICES FOR ALL PANELBOARDS FOR THIS PROJECT.
2. PANELBOARDS SHALL BE PROVIDED WITH SIEMENS SURGE PROTECTIVE DEVICE MODEL #TPS3-C-20-X FOR 208Y/120VOLT, 3-PHASE 4-WIRE INSTALLATION.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SURGE PROTECTIVE DEVICE MANUFACTURER FOR INSTALLATION & CONNECTION REQUIREMENTS PRIOR TO INSTALLATION.

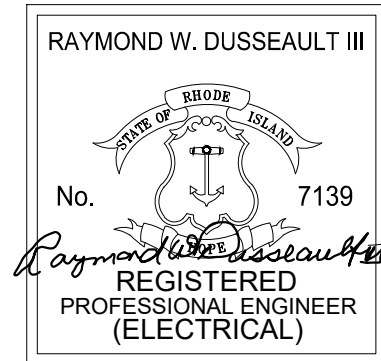
TYPICAL ELECTRICAL NOTES

1. FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE PROPER AND COMPLETE INSTALLATION OF ALL ELECTRIC WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED.
2. ALL ITEMS NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE ELECTRICAL INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
3. ALL ELECTRICAL INSTALLATIONS AND GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE LOCAL, STATE AND NATIONAL CODES.
4. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
5. MATERIALS AND WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KIND AND IN FULL ACCORDANCE WITH THE MOST MODERN ELECTRICAL CONSTRUCTION STANDARDS. ALL MATERIAL SHALL BE NEW, UNLESS OTHERWISE NOTED AND FREE OF ANY DEFECTS.
6. THE ELECTRICAL CONTRACTOR SHALL CLEAN AT THE END OF EACH DAY ALL AREAS WORKED IN. EMPTY BOXES, RUBBISH, AND OTHER CONSTRUCTION MATERIALS OF NO USE SHALL BE REMOVED FROM THE BUILDING.
7. ALL WORK SEQUENCES SHALL BE COORDINATED WITH THE G.C. AND SHALL BE COORDINATION WITH OTHER BUILDING TRADES AND G.C. BUILDING SCHEDULES.
8. ALL BRANCH CIRCUITS RATED AT 120 VOLTS, 20 AMPERES EXCEEDING 75 FEET SHALL BE MINIMUM #10 AWG.

9. AT EXISTING FLOOR SLABS AND WALLS TO BE CORE-DRILLED OR CUT, THE CONTRACTOR SHALL FIND AND MARK ALL EXISTING REINFORCING, PIPING, CONDUIT & FEEDERS, ETC IN BOTH FACES LOCATED BY MEANS OF X-RAY, PACH-OMETER, OR PROFOMETER. SUBMIT DRAWING SHOWING LOCATIONS OF EXISTING REBAR, PIPING AND/OR CONDUIT AND PROPOSED CORES AND/OR CUTS FOR REVIEW.

ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	DUPLEX CONVENIENCE OUTLET: 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT AS FOLLOWS: "2" INDICATES CIRCUIT NUMBER, "C" INDICATES CEILING MOUNTED; "WP" INDICATES PROVIDE WP WHILE-IN-USE ENCLOSURE; "WC" INDICATES PROVIDE WP FLIP-LID COVER)	46" A.F.F.
	SPECIAL NEMA CONFIGUATION OUTLET; VERIFY NEMA TYPE WITH EQUIPMENT TO BE SERVED.	
	SURGE PROTECTION DEVICE. PROVIDE FOR EACH NEW PANELBOARD AS REQUIRED. CONNECTIONS SHALL BE PROVIDED PER THE MANUFACTURER'S INSTRUCTIONS & RECOMMENDATIONS. SEE DRAWING E105 FOR ADDITIONAL INFORMATION.	
	JUNCTION BOX; SIZE AS REQUIRED PER CODE. "WP" INDICATES LISTED AS WEATHER-PROOF, GASKETED JUNCTION BOX.	
	PANELBOARD SURFACE MOUNTED; 208Y/120V, 3-PHASE, 4-WIRE. REFER TO "BRANCH CIRCUIT PANELBOARD SCHEDULES" ON PLANS.	MOUNT 6'-6" AFF TO TOP BREAKER.
	FUSED DISCONNECT SWITCH. 60AF/50AT INDICATES FRAME SIZE/FUSE SIZE IN THAT ORDER. 3P INDICATES NUMBER OF POLES & 3R INDICATES NEMA RATING. STARTERS FOR HVAC EQUIPMENT BY MECHANICAL CONTRACTOR.	
	UN-FUSED DISCONNECT SWITCH. 60AF INDICATES FRAME SIZE, 3P INDICATES NUMBER OF POLES & 3R INDICATES NEMA RATING. STARTERS FOR HVAC EQUIPMENT BY MECHANICAL CONTRACTOR.	
	ENCLOSED CIRCUIT BREAKER.	
	GROUND, PER NEC.	
	HOMERUN TO PANELBOARD; "P" INDICATES PANEL, "1,3" INDICATES CIRCUIT NUMBERS. "GFCI" INDICATES CIRCUIT BREAKER SHALL BE GFCI TYPE.	
	MANUAL MOTOR RATED TOGGLE SWITCH / STARTER WITH THERMAL OVERLOADS.	48" AFF

CERTIFICATION :



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REFER TO ALL DRAWINGS FOR COMPLETE SCOPE OF WORK.

THIS DRAWING IS NOT TO BE SCALED OR USED AS AN AS-BUILT.

REV. NO.	DATE	DESCRIPTION

**Engineering Design Services**  
INCORPORATED

141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

**Zambarano**

**2090 Wallum Lake Road**  
**Burrillville, RI 02859**

SHEET TITLE:  
**ELECTRICAL:**

**LEGENDS & NOTES**

JOB NO.: 24030MU

DRAWN BY: SPC

CHECKED BY: RWD

DATE ISSUED: 03/06/2025

SCALE: AS NOTED

SHEET NO.:

**E000**





PROPOSED TEMPORARY  
STORAGE CONTAINERS.

### BUILDINGS TO BE REMOVED

- 2. DANFORD HOUSE
- 3. BARNES HOUSE
- 4. HAMBLET HOUSE
- 5. CHILDRENS INFIRMARY
- 6. PROVIDENCE CENTER
- 7. LAUNDRY
- 17. OLD SUP. GARAGE
- 18. STAFF HOUSE A
- 19. STAFF HOUSE B
- 20. STAFF HOUSE C
- 46. SCREEN HOUSE

PROPOSED POWER  
SUPPLY TO STORAGE  
CONTAINERS. SEE  
SHEET E200.

HOSPITAL (BEASLEY  
BUILDING) TO REMAIN.

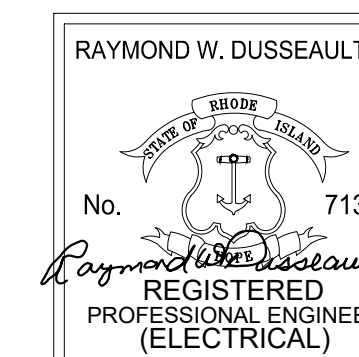
NOTE:  
EXISTING SWITCHGEAR,  
TRANSFORMER & GENERATOR  
SERVING HOSPITAL (BEASLEY  
BUILDING) TO REMAIN.

PROPOSED POWER  
SUPPLY TO TUNNEL  
PANEL. SEE SHEET  
E204.

POWER  
PLANT

1  
E100  
ELECTRICAL - OVERALL SITE PLAN  
SCALE: 1" = 50'-0"

CERTIFICATION :



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OF CONSTRUCTION CONTRACT DOCUMENTS. REFER  
TO ALL DRAWINGS AND SPECIFICATIONS INCLUDING  
BUT NOT LIMITED TO "GENERAL CONDITIONS"  
"SUMMARY OF WORK", AND ANY APPLICABLE  
MANUFACTURERS TECHNICAL SPECIFICATIONS.

REFER TO ALL DRAWINGS FOR COMPLETE SCOPE  
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REV. NO.	DATE	DESCRIPTION

**ENGINEERING DESIGN SERVICES  
INCORPORATED**  
141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

PROJECT NAME:

**Zambarano**

**2090 Wallum Lake Road  
Burrillville, RI 02859**

SHEET TITLE:

ELECTRICAL:

OVERALL SITE PLAN

JOB NO.: 24030MU

DRAWN BY: SPC

CHECKED BY: RWD

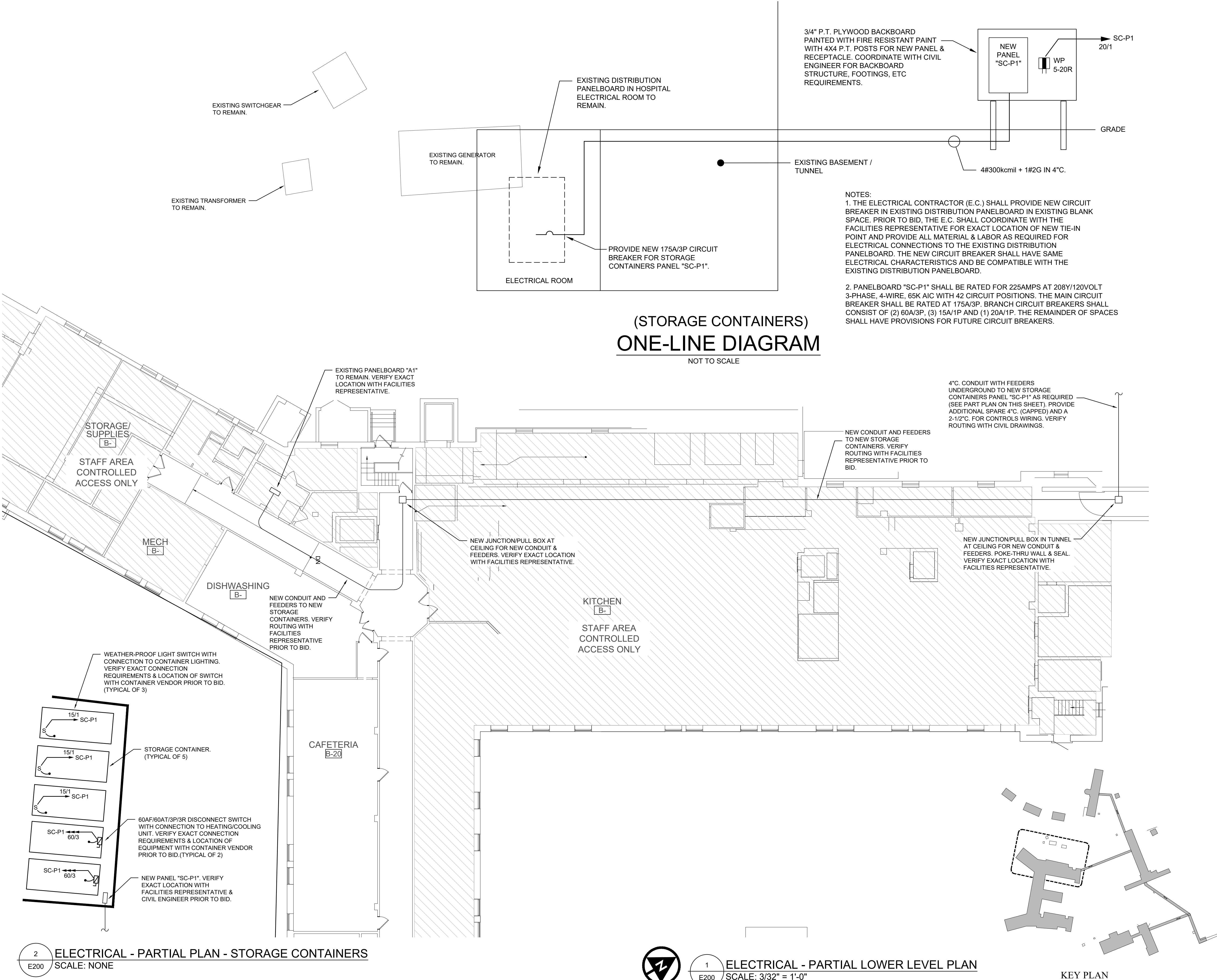
DATE ISSUED: 03/06/2025

SCALE: AS NOTED

SHEET NO.:

**E100**





CERTIFICATION :

RAYMOND W. DUSSEAULT III

No. 7139

REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

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REV. NO.	DATE	DESCRIPTION

ENGINEERING DESIGN SERVICES INCORPORATED

141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

PROJECT NAME:

Zambarano  
2090 Wallum Lake Road  
Burrillville, RI 02859

SHEET TITLE:

ELECTRICAL:  
PARTIAL LOWER LEVEL  
PLAN & ONE-LINE  
DIAGRAM

JOB NO.:

24030MU

DRAWN BY:

SPC

CHECKED BY:

RWD

DATE ISSUED:

03/06/2025

SCALE:

AS NOTED

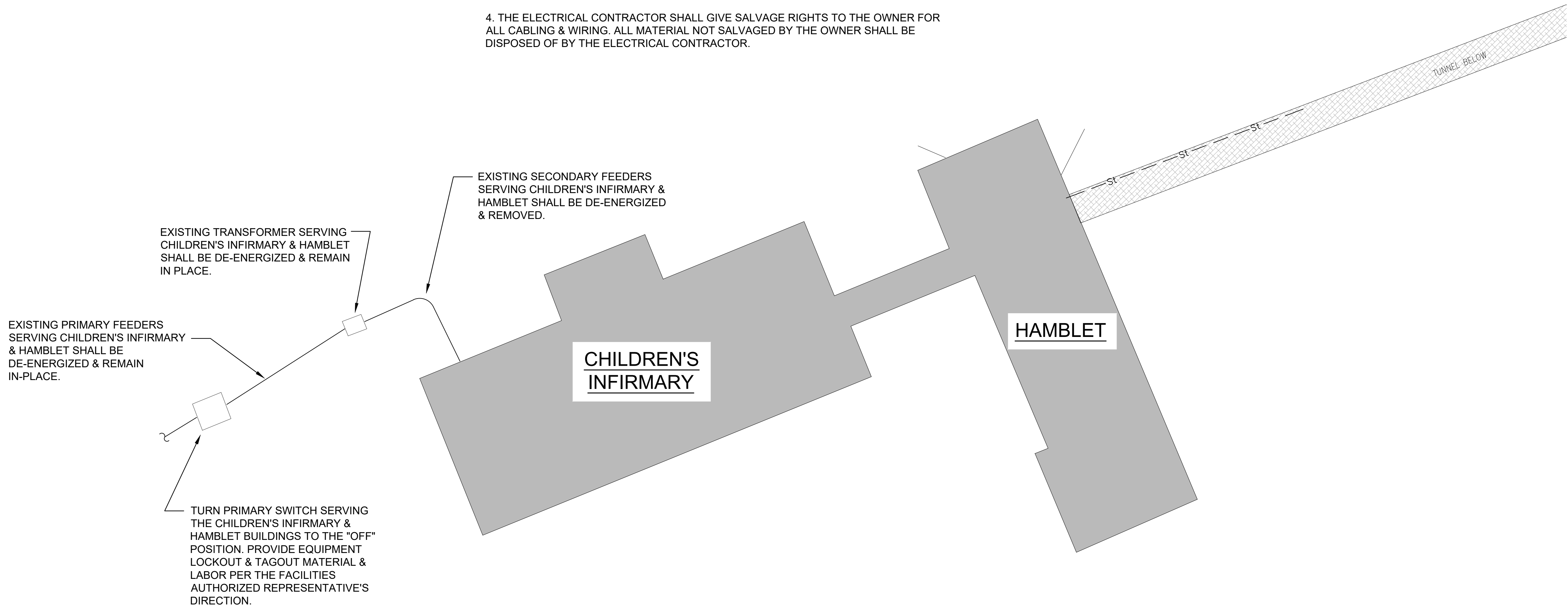
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E200



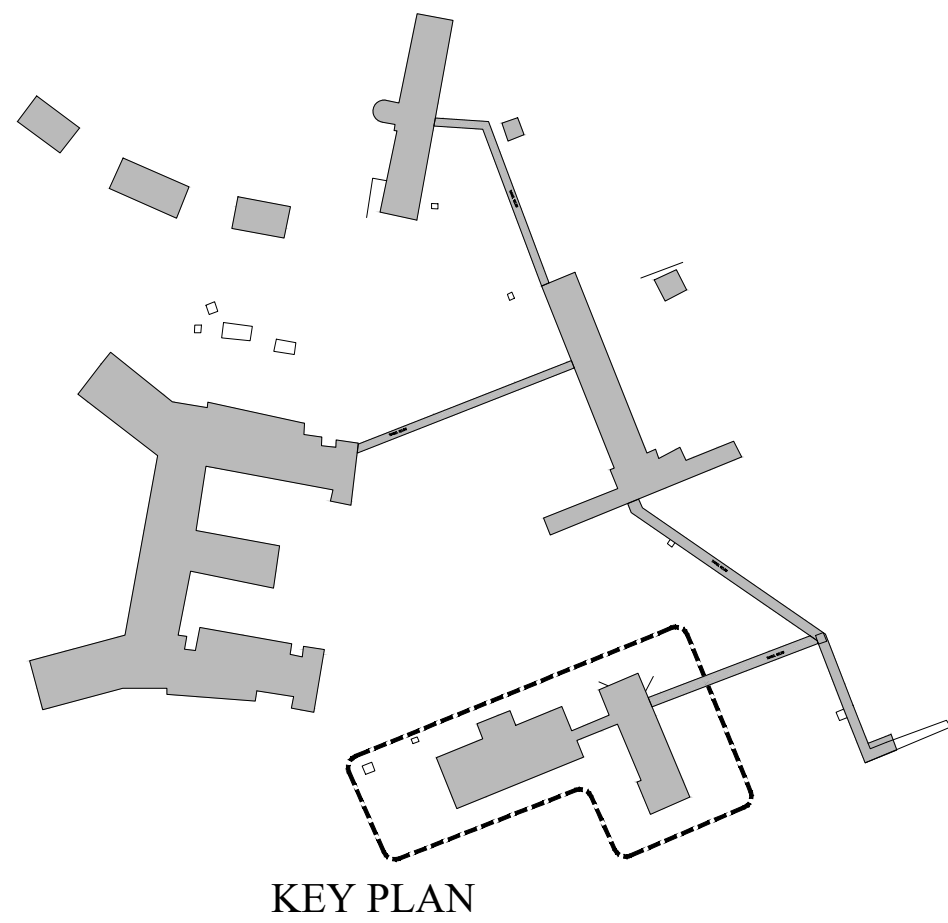
TYPICAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT ON SITE AND COORDINATE WITH FACILITIES AUTHORIZED REPRESENTATIVE PRIOR TO ANY WORK.
2. E.C. SHALL CONTACT DIG-SAFE PRIOR TO ANY WORK INVOLVING THE SITE ELECTRICAL WORK.
3. THE ELECTRICAL CONTRACTOR SHALL FOLLOW LOCKOUT & TAGOUT PROCEDURES PER THE FACILITIES AUTHORIZED REPRESENTATIVE'S DIRECTION AND IN COMPLIANCE WITH OSHA. EACH PIECE ELECTRICAL EQUIPMENT AND FEEDER LOAD BREAK ELBOW THAT IS ASSOCIATED WITH THIS WORK SHALL BE PROVIDED WITH A DEAD-END CAP, LOCK & TAG.
4. THE ELECTRICAL CONTRACTOR SHALL GIVE SALVAGE RIGHTS TO THE OWNER FOR ALL CABLING & WIRING. ALL MATERIAL NOT SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.

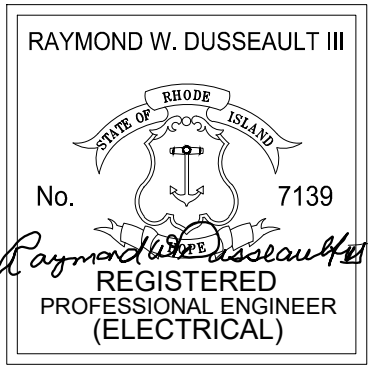


1  
E201

ELECTRICAL - PARTIAL SITE PLAN  
SCALE: 1" = 20'-0"



CERTIFICATION :



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REFER TO ALL DRAWINGS FOR COMPLETE SCOPE OF WORK.

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REV. NO.	DATE	DESCRIPTION

**engineering design services**  
INCORPORATED  
141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

PROJECT NAME:

**Zambarano**  
**2090 Wallum Lake Road**  
**Burrillville, RI 02859**

SHEET TITLE:

**ELECTRICAL:**  
**PARTIAL SITE PLAN**

JOB NO.: 24030MU

DRAWN BY: SPC

CHECKED BY: RWD

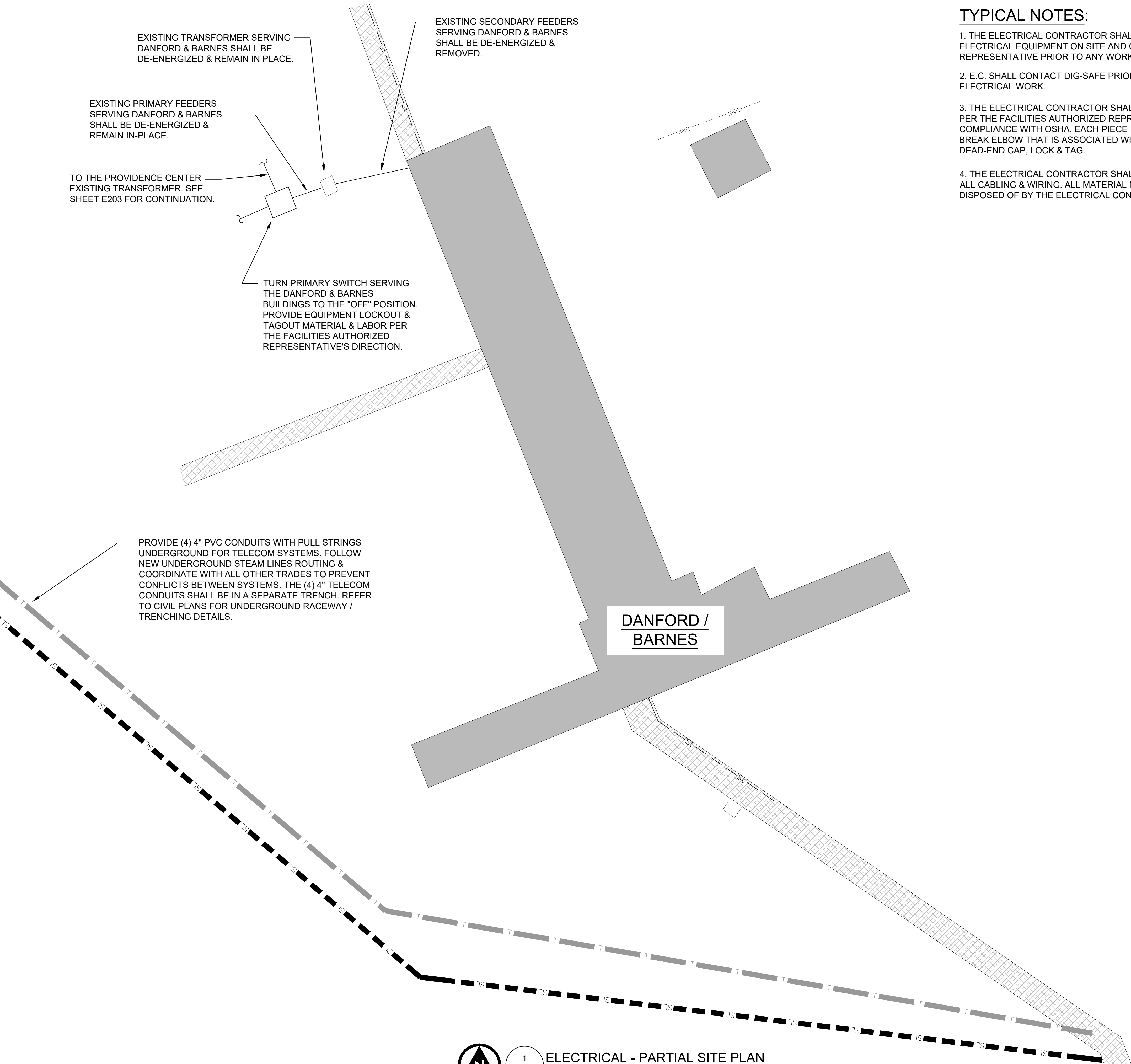
DATE ISSUED: 03/06/2025

SCALE: AS NOTED

SHEET NO.:

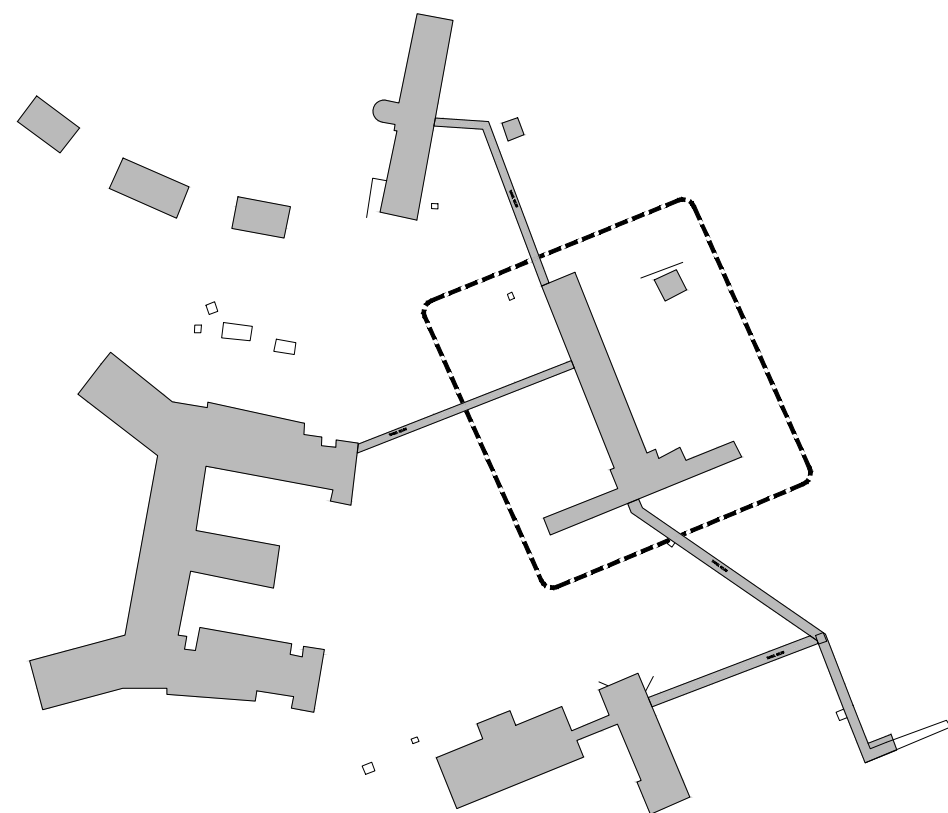
**E201**





TYPICAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT ON SITE AND COORDINATE WITH FACILITIES AUTHORIZED REPRESENTATIVE PRIOR TO ANY WORK.
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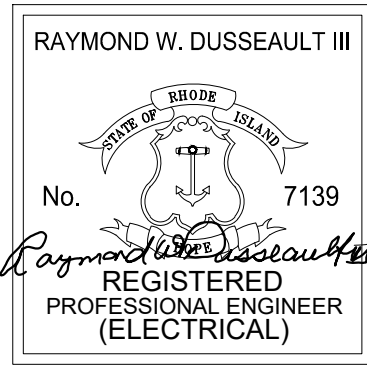
KEY PLAN



1  
E202

ELECTRICAL - PARTIAL SITE PLAN  
SCALE: 1" = 20'-0"

CERTIFICATION :



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**engineering design services**  
INCORPORATED

141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

PROJECT NAME:

SHEET TITLE:

ELECTRICAL:

PARTIAL SITE PLAN

JOB NO.: 24030MU

DRAWN BY: SPC

CHECKED BY: RWD

DATE ISSUED: 03/06/2025

SCALE: AS NOTED

SHEET NO.:

E202



TYPICAL NOTES:

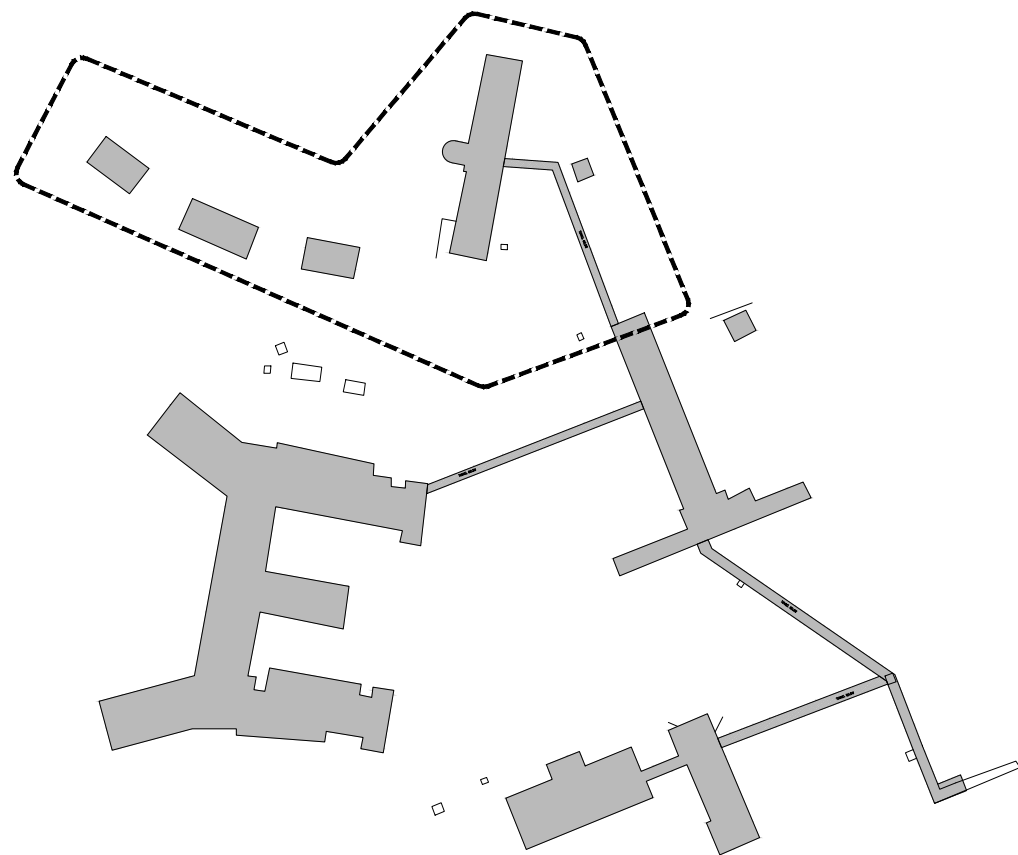
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NOTE:  
EXISTING SECONDARY FEEDERS  
SERVING STAFF HOUSE SHALL BE  
DE-ENERGIZED & REMOVED.  
(TYPICAL OF 3)

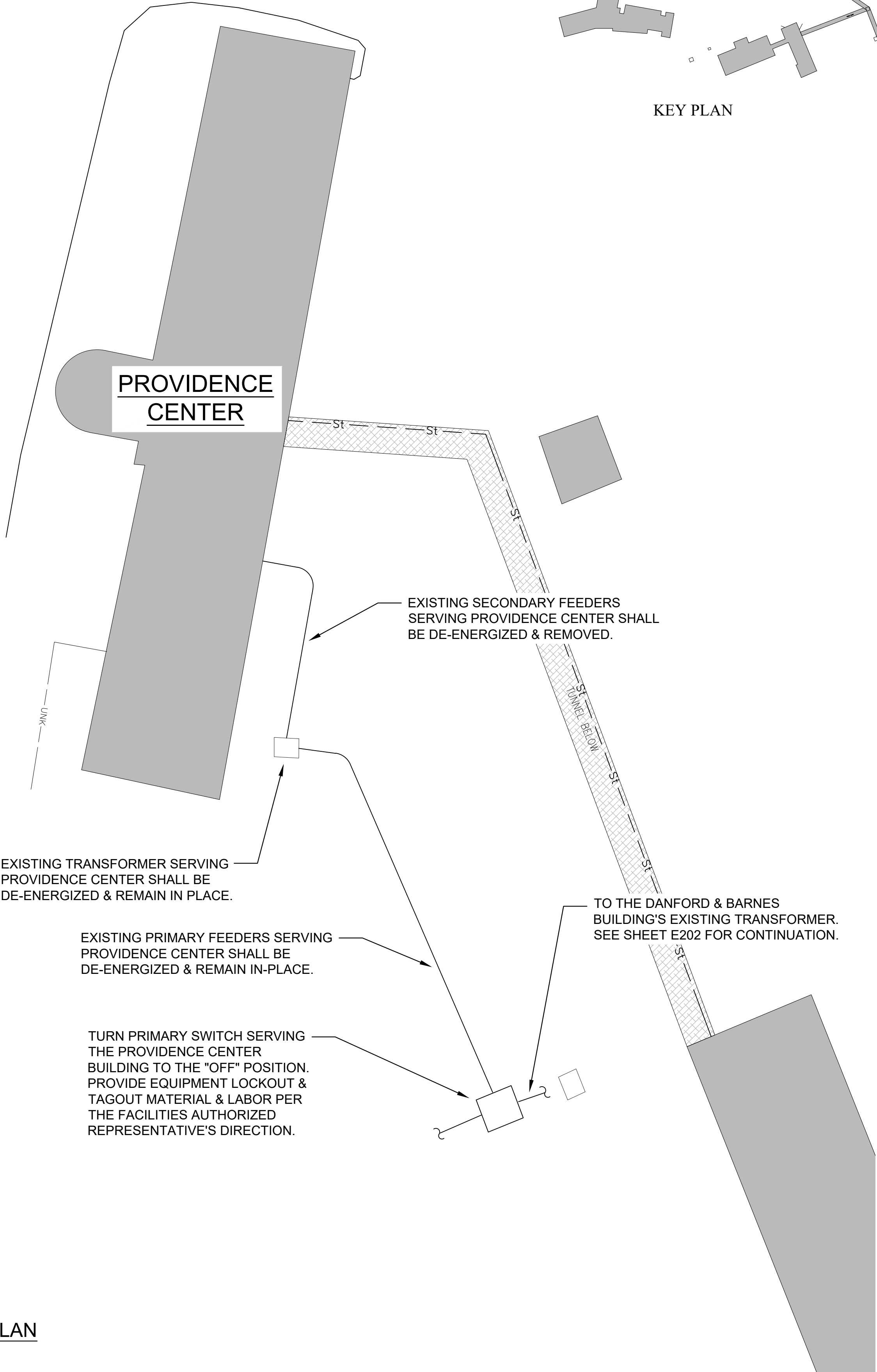


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E203

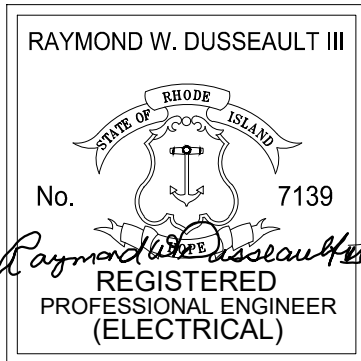
ELECTRICAL - PARTIAL SITE PLAN  
SCALE: 1" = 20'-0"



KEY PLAN



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141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

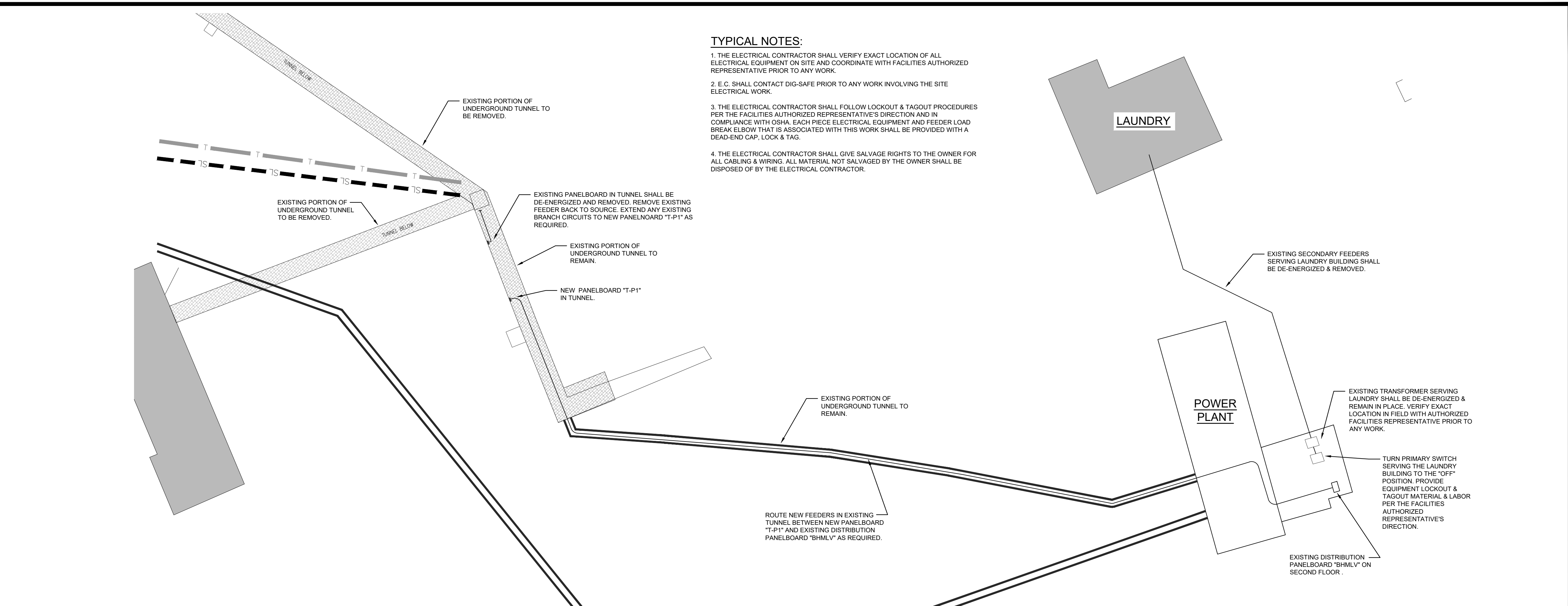
**Zambarano**  
**2090 Wallum Lake Road**  
**Burrillville, RI 02859**

SHEET TITLE:  
**ELECTRICAL:  
PARTIAL SITE PLAN**

JOB NO.: 24030MU  
DRAWN BY: SPC  
CHECKED BY: RWD  
DATE ISSUED: 03/06/2025  
SCALE: AS NOTED

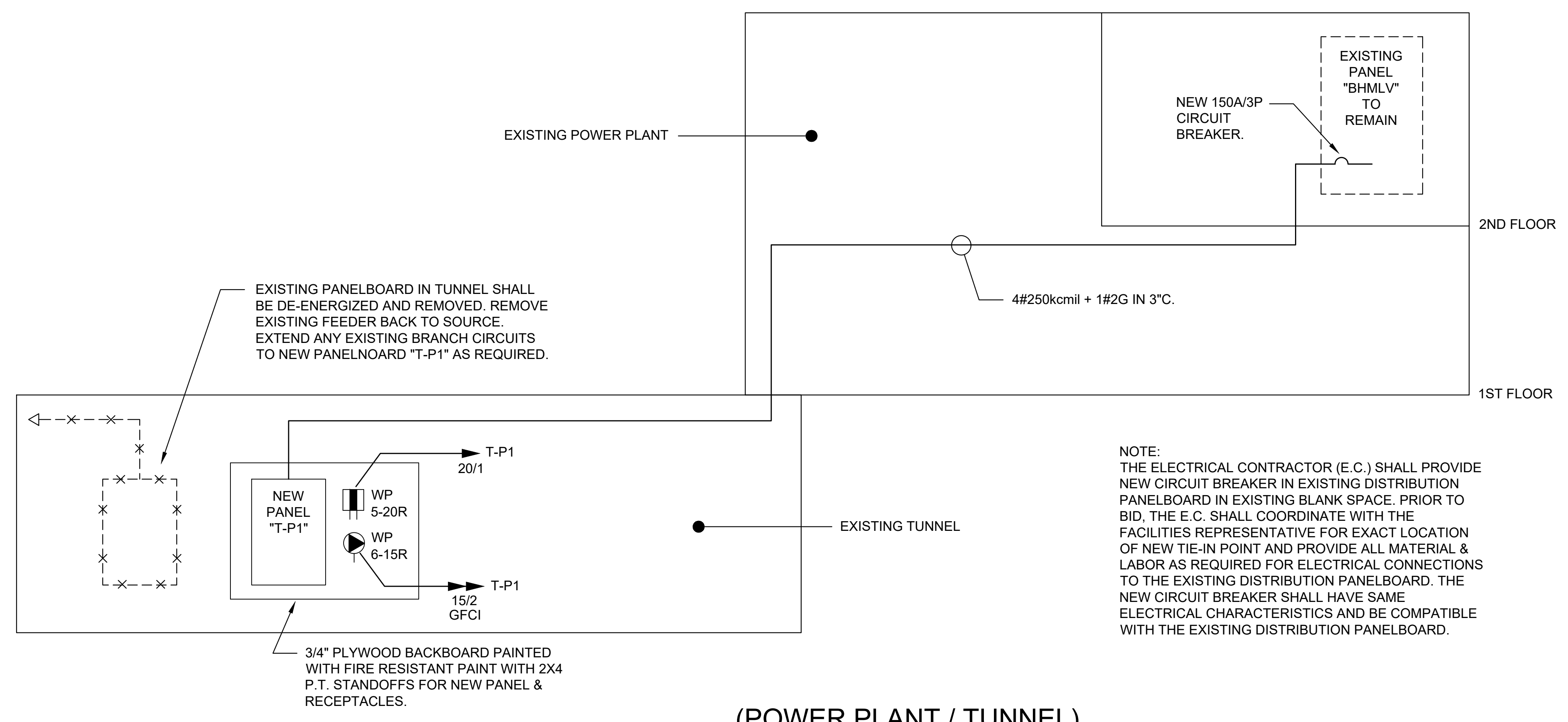
SHEET NO.:  
**E203**





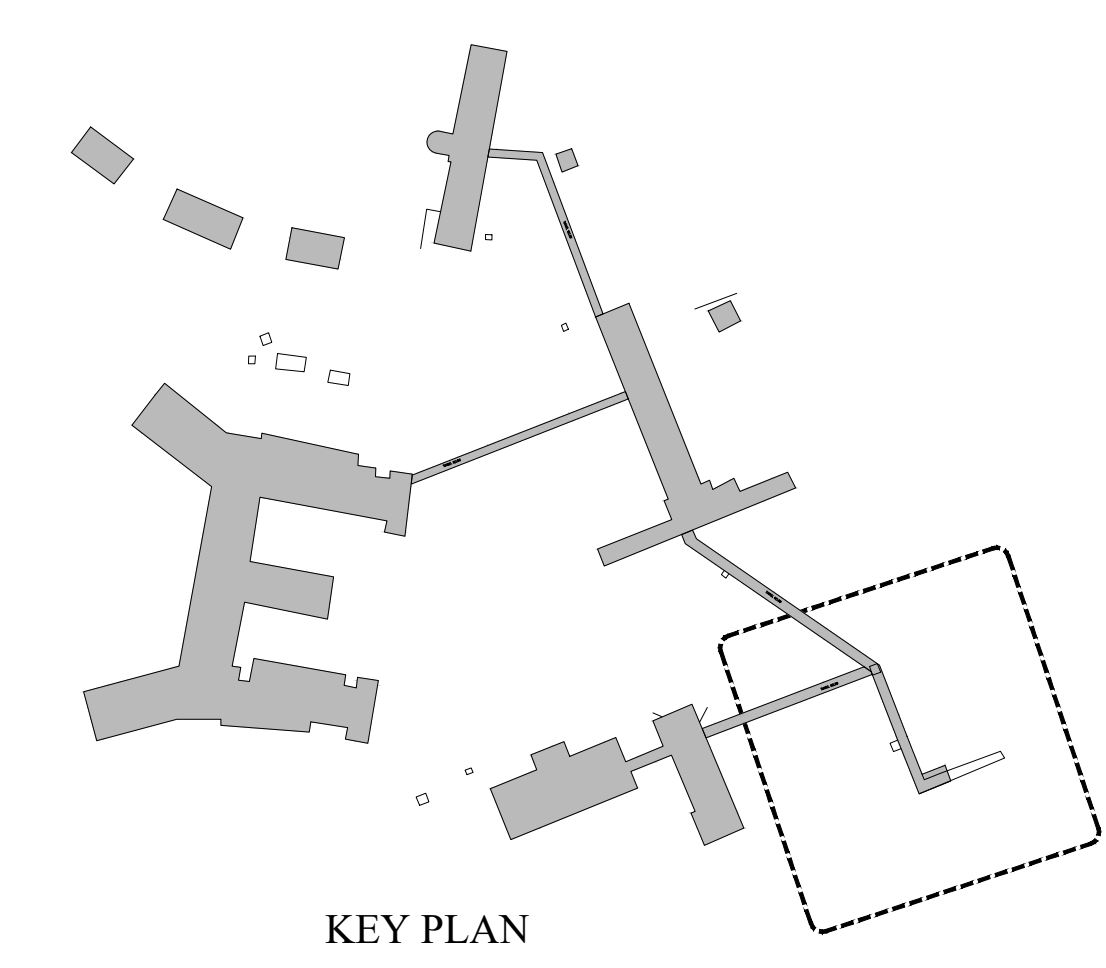
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**ELECTRICAL - PARTIAL SITE PLAN**  
SCALE: 1" = 20'-0"



**(POWER PLANT / TUNNEL)  
ONE-LINE DIAGRAM**  
NOT TO SCALE

NOTE:  
THE ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE NEW CIRCUIT BREAKER IN EXISTING DISTRIBUTION PANELBOARD IN EXISTING BLANK SPACE. PRIOR TO BID, THE E.C. SHALL COORDINATE WITH THE FACILITIES REPRESENTATIVE FOR EXACT LOCATION OF NEW TIE-IN POINT AND PROVIDE ALL MATERIAL & LABOR AS REQUIRED FOR ELECTRICAL CONNECTIONS TO THE EXISTING DISTRIBUTION PANELBOARD. THE NEW CIRCUIT BREAKER SHALL HAVE SAME ELECTRICAL CHARACTERISTICS AND BE COMPATIBLE WITH THE EXISTING DISTRIBUTION PANELBOARD.



CERTIFICATION :

RAYMOND W. DUSSEAULT III

No. 7139

REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL)

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REV. NO.	DATE	DESCRIPTION

**engineering design services**  
INCORPORATED

141 Industrial Highway Slatersville, RI 02876  
Tel (401) 765-7659 Fax (401) 765-2984

**Zambarano**

**2090 Wallum Lake Road**  
**Burrillville, RI 02859**

PROJECT NAME:

SHEET TITLE:

**ELECTRICAL:**

**PARTIAL SITE PLAN &  
ONE-LINE DIAGRAM**

JOB NO.: 24030MU

DRAWN BY: SPC

CHECKED BY: RWD

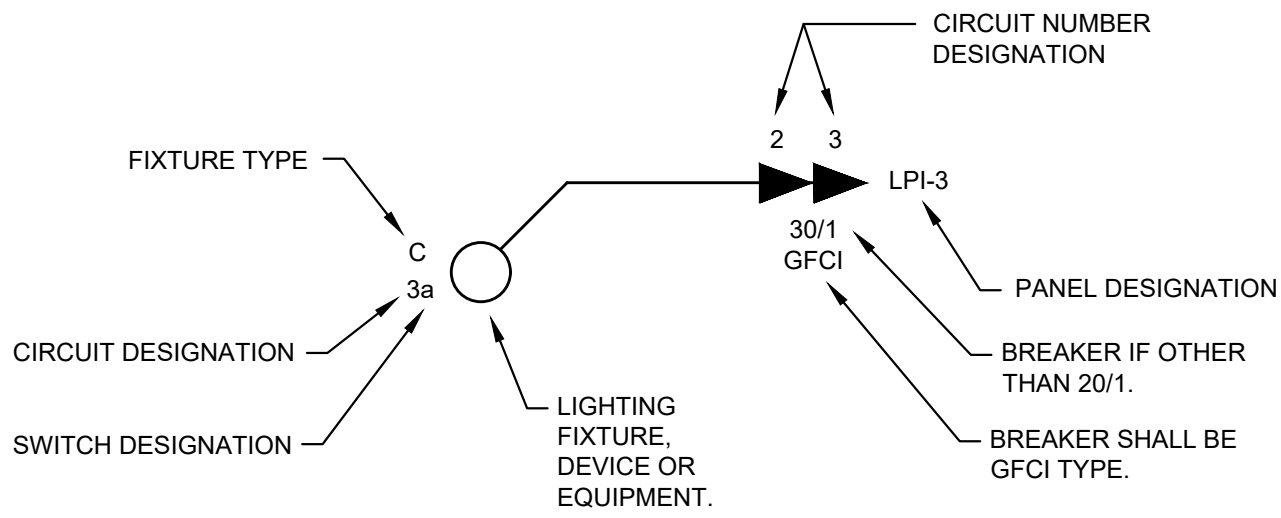
DATE ISSUED: 03/06/2025

SCALE: AS NOTED

SHEET NO.:

**E204**



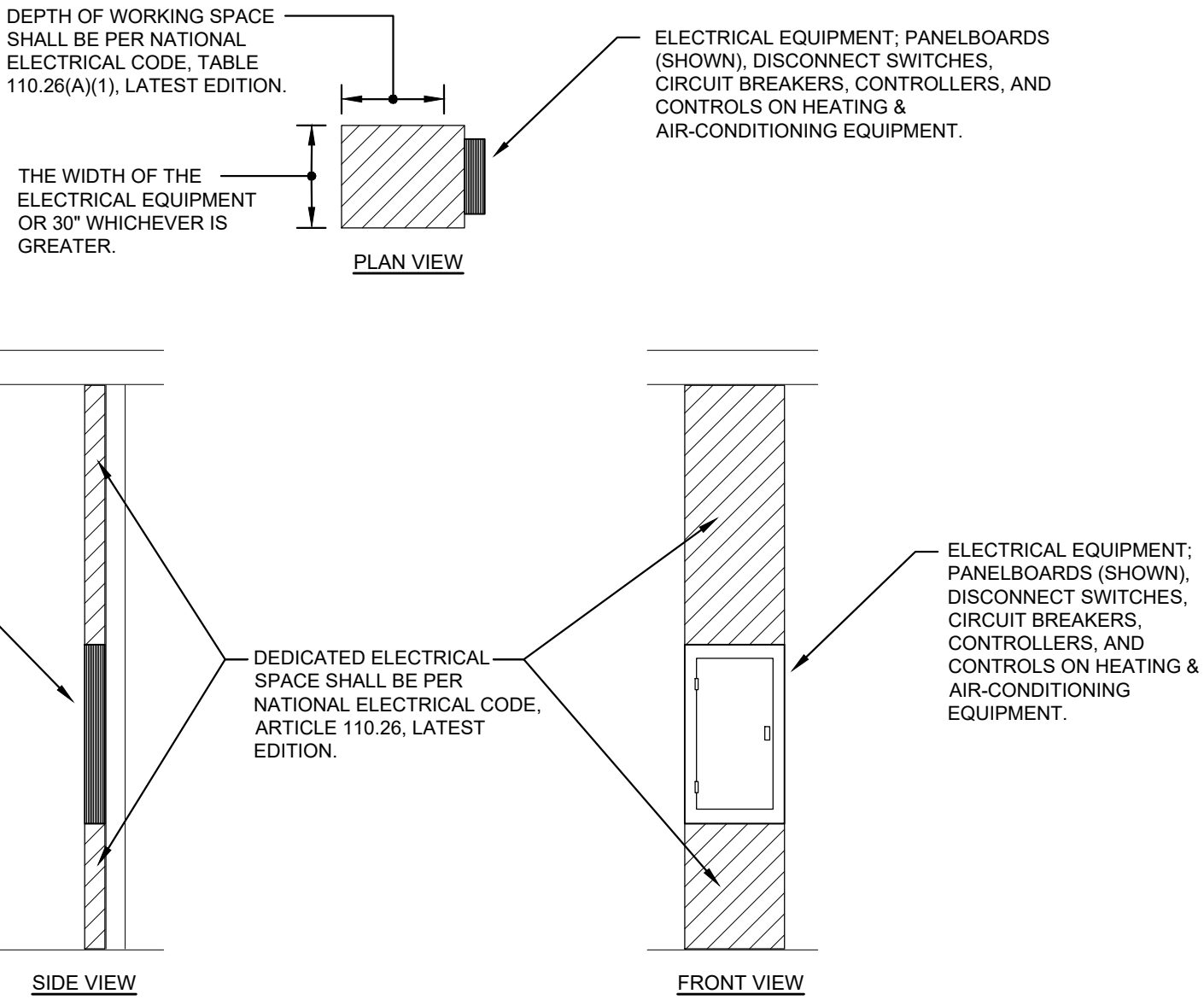


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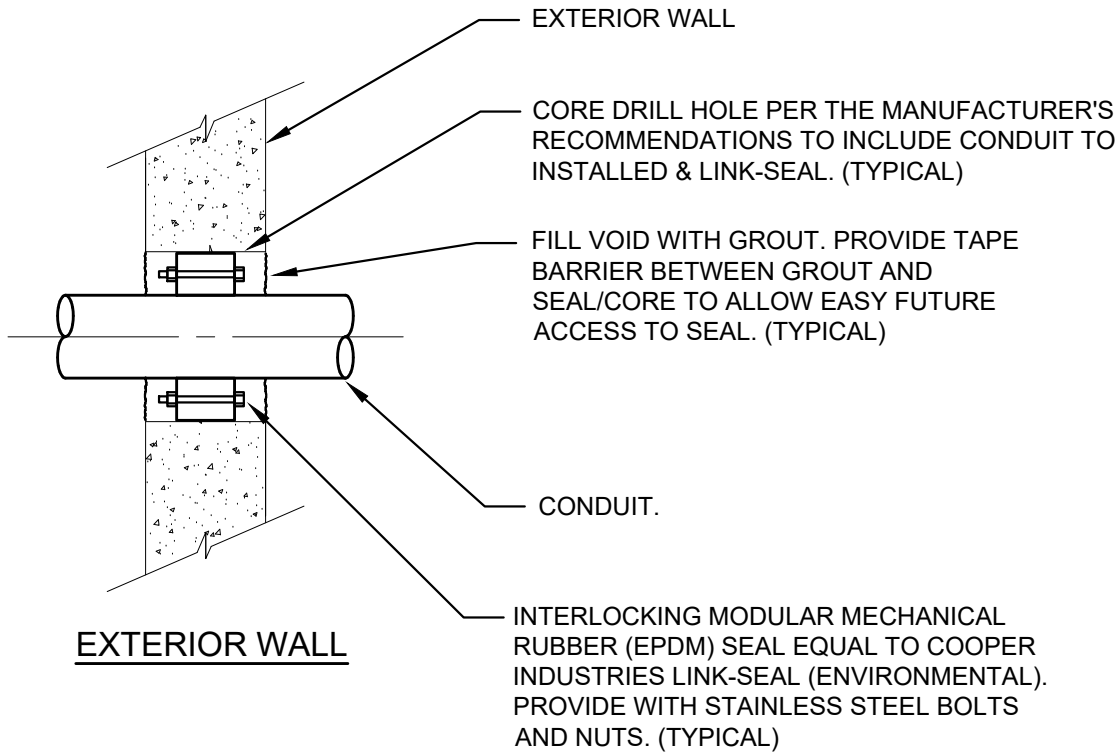
1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT ON PLANS, AND VICE VERSA, SHALL APPLY OR SHALL BE PROVIDED AS THOUGH EXPRESSLY REQUIRED ON BOTH. IT IS NOT INTENDED THAT EVERY JUNCTION BOX, OFFSET, FITTING OR COMPONENT BE SPECIFIED OR SHOWN ON DRAWINGS; HOWEVER, CONTRACT DOCUMENTS REQUIRE PROVISION OF ALL COMPONENTS AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION, WHETHER OR NOT INDICATED OR SPECIFIED.

2. BRANCH CIRCUIT WIRING MAY NOT BE GRAPHICALLY SHOWN ON DRAWINGS AND MAY BE SHOWN BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT SHOWN GRAPHICALLY. WIRING IS SHOWN BY CONDUIT RUNS ON DRAWINGS WHERE SPECIFIC ROUTING IS REQUIRED OR FOR OTHER SPECIAL REASONS. ONLY ROOMS WITH MULTIPLE SWITCHING HAVE "SWITCH CONTROL LETTERS" ASSIGNED. PROVIDE THHN CONDUCTORS IN AREAS WITH HIGH AMBIENT TEMPERATURES SUCH AS BOILER ROOMS, INCINERATOR ROOMS, MECHANICAL EQUIPMENT ROOMS, KITCHENS, ETC., FOR SIZES LARGER THAN NO. 10 AWG.

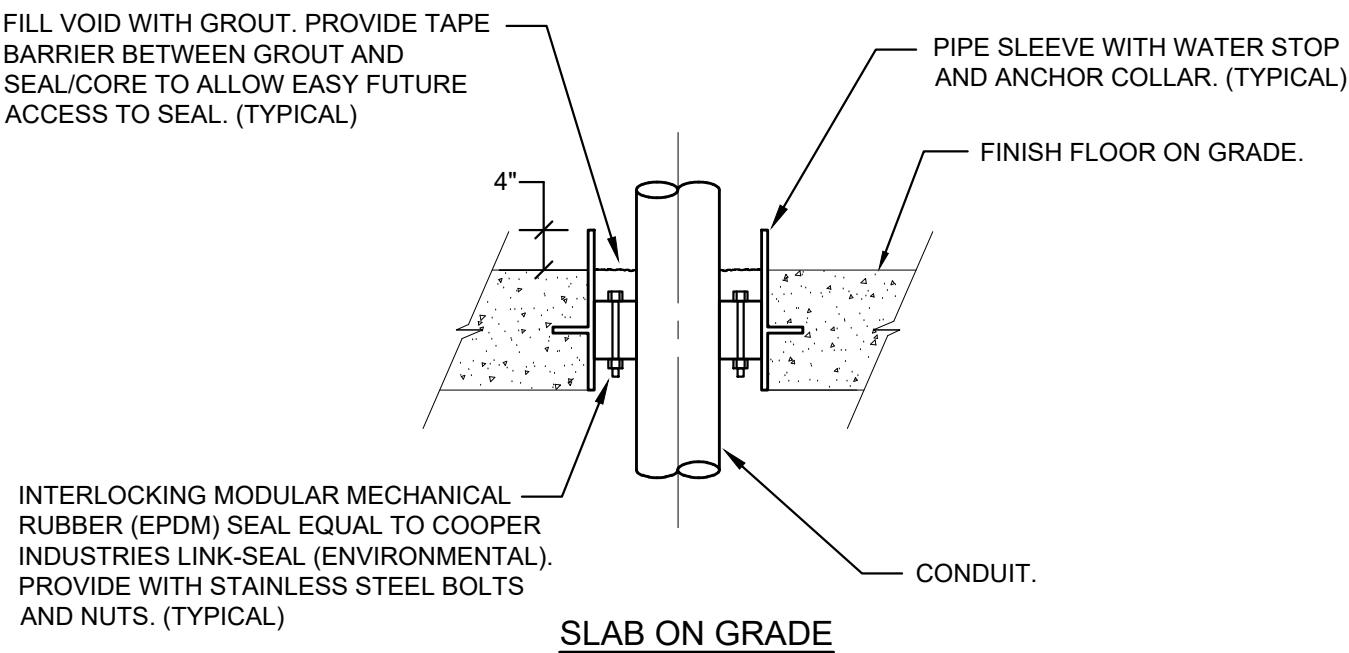
TYPICAL CIRCUITING DETAIL  
NOT TO SCALE



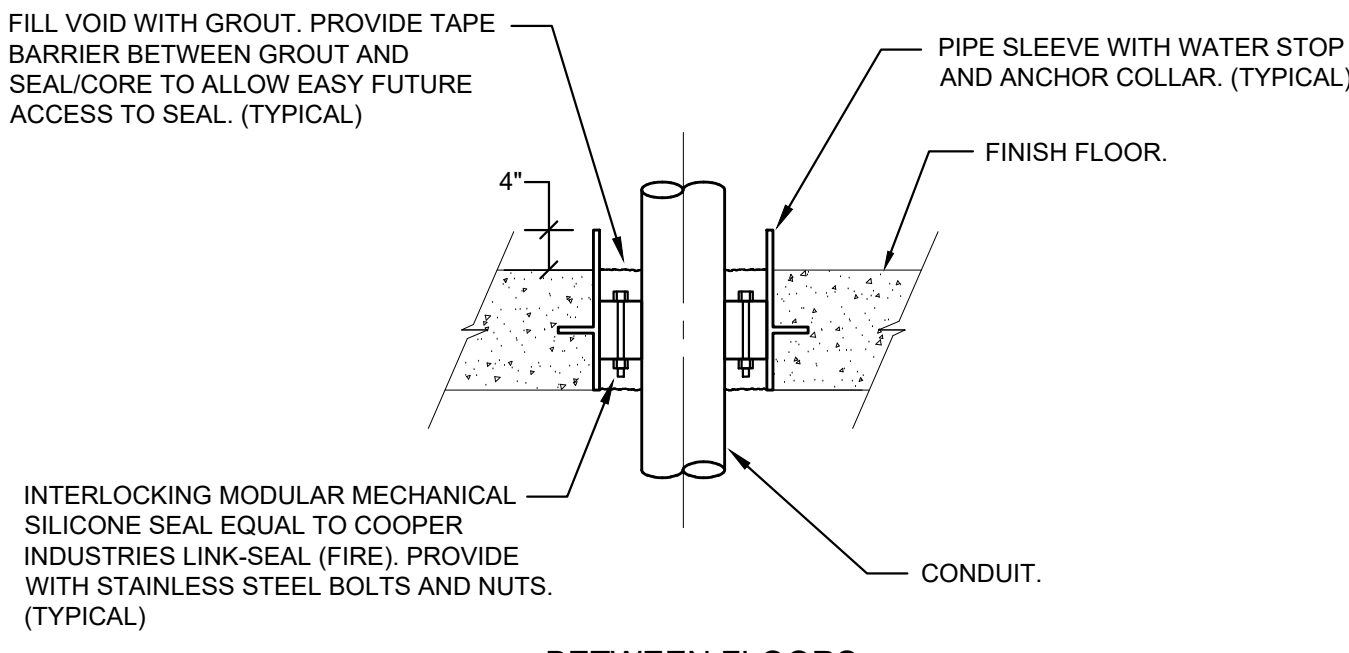
SPACES ABOUT ELECTRICAL EQUIPMENT DETAIL  
NOT TO SCALE



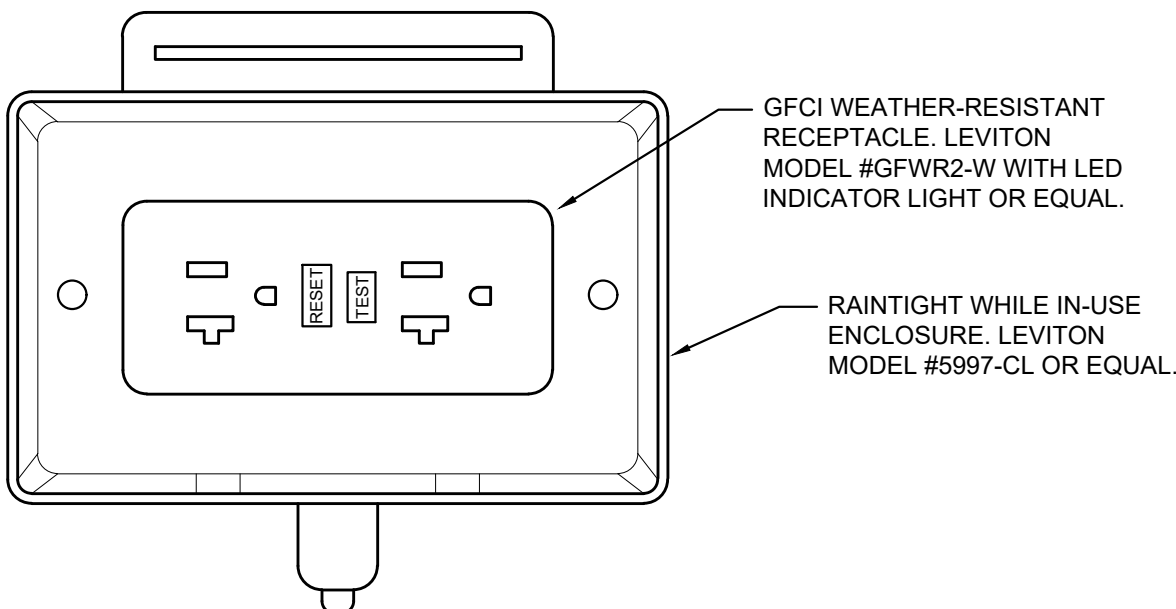
WATER TIGHT CONDUIT SEAL DETAIL  
NOT TO SCALE



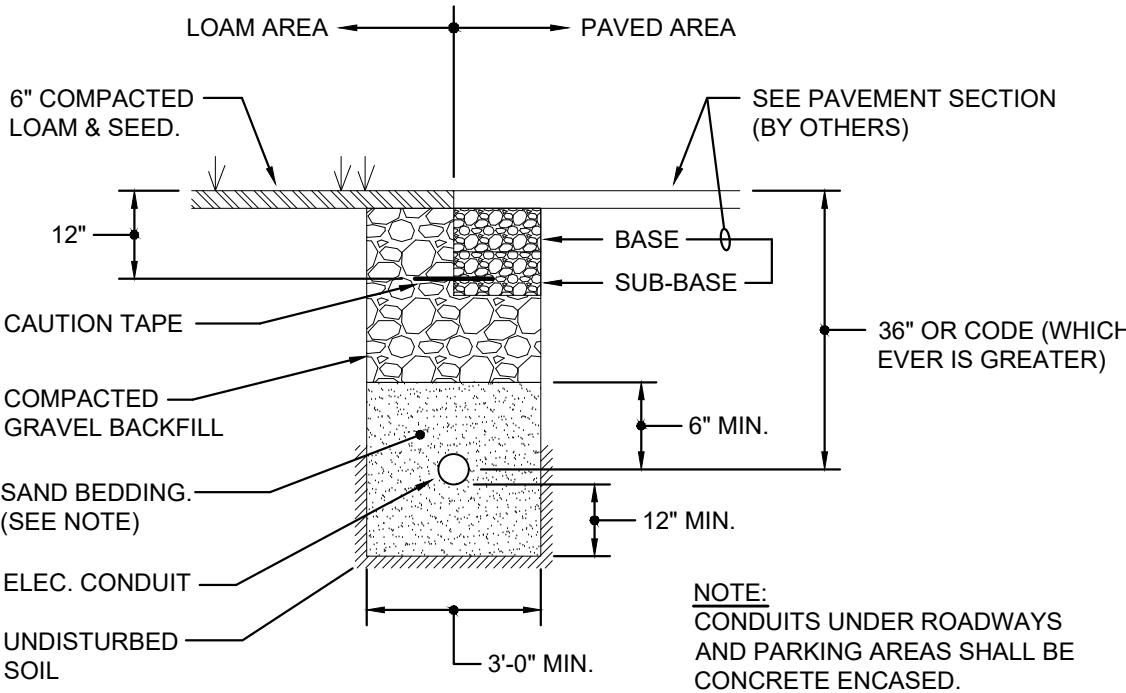
WATER TIGHT CONDUIT SEAL DETAIL  
NOT TO SCALE



WATER TIGHT / FIRE RESISTANT CONDUIT SEAL DETAIL  
NOT TO SCALE

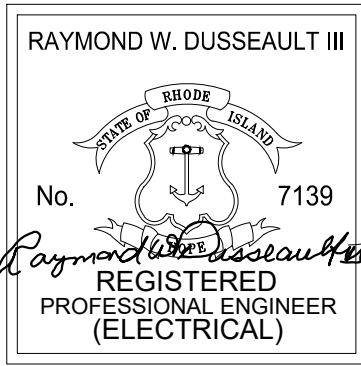


HORIZONTAL MOUNT  
WEATHER-PROOF RECEPTACLE DETAIL  
NOT TO SCALE



CONDUIT TRENCH DETAIL  
NOT TO SCALE

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PROJECT NAME:

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**2090 Wallum Lake Road**  
**Burrillville, RI 02859**

SHEET TITLE:

**ELECTRICAL:**  
**DETAILS**

JOB NO.: 24030MU

DRAWN BY: SPC

CHECKED BY: RWD

DATE ISSUED: 03/06/2025

SCALE: AS NOTED

SHEET NO.:

**E300**