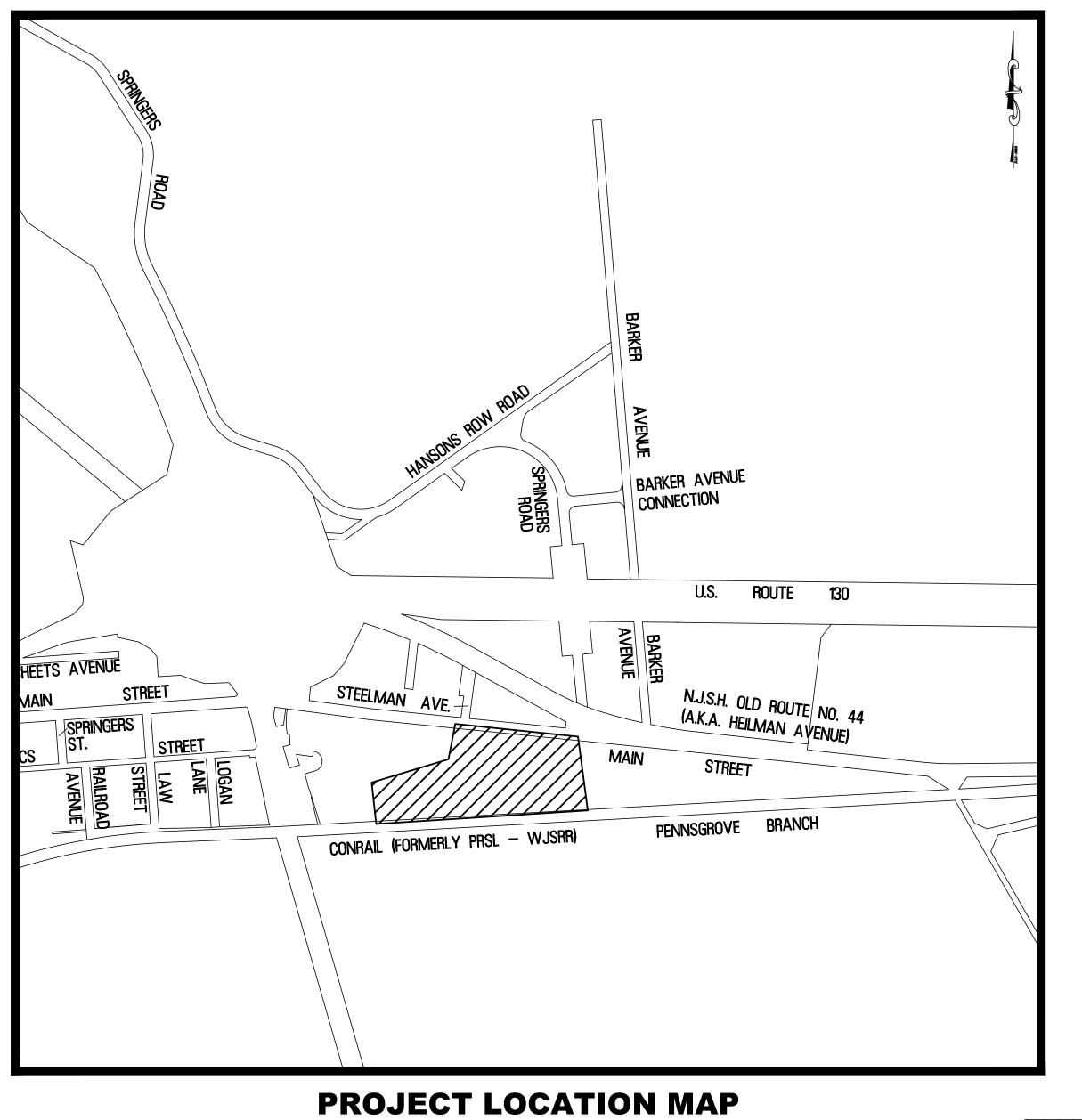
# LOGAN TOWNSHIP DPW POLE BARN **EXTENSION AND SITE IMPROVEMENTS - REBID**

EME	LIST OF UTILITIES AND RGENCY CONTACT INFORMATION
SEWER & WATER:	TOWNSHIP OF LOGAN MUA ATTN: CHRISTOPHER WHALEN PO BOX 71, JEFFERSON LANE BRIDGEPORT NJ 08014
ELECTRIC:	ATLANTIC CITY ELECTRIC ATTN: VINCE MAIONE 428 ELLIS STREET GLASSBORO NJ 08028 856-863-7943
FIBER OPTICS:	ATLANTIC CITY ELECTRIC ATTN: VINCE MAIONE 428 ELLIS STREET GLASSBORO NJ 08028 856-863-7943
CABLE:	COMCAST ATTN: TIM MILLS 1846 NORTH WEST BOULEVARD VINELAND NJ 08360
GAS:	SOUTH JERSEY INDUSTRIES COMPANY ATTN: BRIAN D. ANTOLICK 142 SOUTH MAIN STREET GLASSBORO NJ 08028
TELEPHONE:	VERIZON COMMUNICATIONS 10 TANSBORO ROAD BERLIN NJ 08009

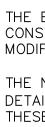


FUNDING SOURCE:

CAPITAL



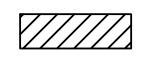
TO CONTACT NJ ONE CALL PRIOR TO THE START OF CONSTRUCTION, CALL FOR MARKOUTS THREE (3) FULL BUSINESS DAYS IN ADVANCE AND BEGIN **EXCAVATION WITHIN 10 DAYS. ALL CONTRACTORS** ON-SITE MUST HAVE THEIR OWN MARKOUT





SCALE: 1'' = 500'

**PROJECT LOCATION =** 

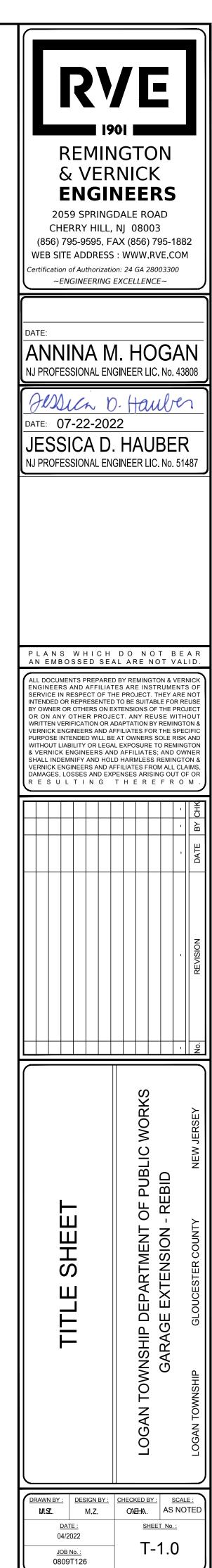


THE ELECTRONIC VERSION OF THE 2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EFFECTIVE SEPTEMBER 1, 2019, AS REFERENCED IN BASELINE DOCUMENT CHANGE ANNOUNCEMENT BDC19S-01, UNLESS MODIFIED WITHIN THE TECHNICAL SPECIFICATIONS OF THIS CONTRACT, SHALL GOVERN.

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION TRAFFIC CONTROL BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2016 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2016" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

# LOGAN TOWNSHIP **GLOUCESTER COUNTY, NEW JERSEY APRIL**, 2022

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C-1.0	GENERAL NOTES AND DISTRIBUTION OF QUANTITIES
C-1.1	LEGEND
C-2.0	EXISTING TOPOGRAPHIC CONDITIONS PLAN
C-2.1	DEMOLITION PLAN
C-2.2	SITE PLAN
C-2.3	GRADING, DRAINAGE & UTILITY PLAN
C-3.0 - C-3.1	CONSTRUCTION DETAILS
C-4.1	SOIL EROSION AND SEDIMENT CONTROL NOTES
C-4.2	SOIL EROSION SEDIMENT CONTROL DETAILS
C-5.0	FUELING STATION & PUMP DETAILS
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S-3.0	ENLARGED FLOOR PLAN AND DETAILS
M-1.0	MECHANICAL COVER SHEET
M-2.1	MECHANICAL FLOOR PLAN - GARAGE #1
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/I-3.1 - M-3.2	MECHANICAL DETAILS
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P-2.1	PLUMPING SANITARY PIPING FLOOR PLAN - GARAGE #2
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P-4.1 - P-4.2	PLUMBING DETAILS
P-4.3	PLUMBING UTILITY PIPING RISER DIAGRAMS
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E-1.0	ELECTRICAL COVER SHEET
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E-4.1	ELECTRICAL SINGLE LINE DIAGRAM
E-4.2	ELECTRICAL SYSTEMS SINGLE LINE DIAGRAM
E-5.1	ELECTRICAL DIAGRAMS
E-5.2 - E-5.4	
E-5.5 - E-5.6	ELECTRICAL SCHEDULES



# **GENERAL NOTES:**

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF THE CONSTRUCTION, ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- 2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. ALL PAVED AND CONCRETE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
- 5. ALL GRASSED OR WOODED AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOPSOILED AND SEEDED.
- 6. ALL FILL SHALL BE PLACED IN 12" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. IF BORROW FILL IS REQUIRED, IT SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF THE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
- 8. BASELINES HAVE BEEN PROVIDED ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE BASELINE AS SHOWN ON THE PLAN.
- 9. APPROXIMATE DEPTH OF ALL WATER MAIN IS  $\pm$  4 FEET.
- 10. APPROXIMATE DEPTH OF ALL GAS MAIN IS  $\pm$  3 FEET.
- 11. ALL CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS AS DETAILED IN:
  - "STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS: 2016."
  - "ELECTRICAL BUREAU STANDARD DETAILS."
  - INCLUDING ALL APPLICABLE BASELINE DOCUMENT CHANGES AND APPENDICES. THESE DETAILS MAY BE PURCHASED THROUGH THE N.J.D.O.T. PLANS AND SPECIFICATION CENTER AT:
    - 1035 PARKWAY AVENUE,
    - TRENTON, NEW JERSEY

08625-0600

# HTTP://WWW.STATE.NJ.US/TRANSPORTATION/ENG/CADD/V8/INDEX.SHTML#STANDARDDETAILSENGLISH

- 12. SEPARATE PAYMENT WILL NOT BE MADE FOR SAW CUTTING OF ANY KIND, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 13. PAYMENT FOR JOINT MATERIAL FOR ALL CONCRETE WORK WILL NOT BE MEASURED BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 14. MANHOLE CASTINGS THAT ARE TO BE RESET SHALL BE RESET ¼" LOWER THAN THE PROPOSED PAVEMENT ELEVATION.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING CONCRETE CURB NOT SHOWN TO BE REMOVED. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE REMOVAL AND REPLACEMENT OF ANY DAMAGED CURB NOT DOCUMENTED PRIOR TO THE START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 16. THE ELECTRONIC VERSION OF THE 2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EFFECTIVE SEPTEMBER 1, 2019, AS REFERENCED IN BASELINE DOCUMENT CHANGE ANNOUNCEMENT BDC19S-01, UNLESS MODIFIED WITHIN THE TECHNICAL SPECIFICATIONS OF THIS CONTRACT, SHALL GOVERN.
- 17. ALL UNUSED MATERIAL EXCAVATED FROM THE PROJECT SITE ARE TO BE DISPOSED OF AT AN APPROVED FACILITY.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE PLANS AND SPECIFICATIONS. SEPARATE PAYMENT FOR ALL ASSOCIATED COSTS WILL NOT BE MADE, BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL BESIDES SILT FENCE AND INLET PROTECTION.
- 19. CONTRACTOR IS RESPONSIBLE TO ENSURE POSITIVE DRAINAGE ALONG ALL ROADWAYS TO BE RESURFACED. THE CONTRACTOR SHALL PROVIDE ELEVATIONS AT ALL DEPRESSED CURB LOCATIONS ASSOCIATED WITH THE ADA RAMPS TO ENSURE POSITIVE DRAINAGE ADJACENT TO THE RAMP AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. SEPARATE PAYMENT WILL NOT BE MADE FOR PROVIDING PROPOSED ELEVATIONS. ALL COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 20. CONTRACTOR SHALL RESTORE ALL EXISTING FEATURES DISTURBED DURING CONSTRUCTION (I.E. MAILBOXES, IRRIGATION SYSTEMS, LANDSCAPING, ETC.). ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING SITE.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PAVED CARTWAY FREE AND CLEAR OF SEDIMENT EACH DAY THE WORK PROGRESSES AND AS OFTEN AS NECESSARY TO KEEP A CLEAN BROOM SWEPT CONDITION AND OR AS DIRECTED BY THE ENGINEER.
- 22. PROVIDE A SEPARATE TRAFFIC CONTROL/DETOUR PLAN FOR WORK IN EACH ROAD SEGMENT AND INTERSECTION. ALL PLANS SHALL BE APPROVED BY OWNER AND COUNTY (FOR ANY WORK IN COUNTY R.O.W.) PRIOR TO IMPLEMENTATION. ALL COSTS SHALL BE INCLUDED IN THE APPROPRIATE ITEMS FOR TRAFFIC CONTROL IN THE PROPOSAL.
- 23. TRAFFIC CONTROL INCLUDING ALL DEVICES SHALL BE PAID UNDER THE APPROPRIATE ITEMS, AND SHALL BE IN ACCORDANCE WITH THE MOST CURRENT M.U.T.C.D. AND N.J.D.O.T. DETAILS.
- 24. THE CONTRACTOR SHALL EXERCISE PARTICULAR CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, IN MILLING AND CONSTRUCTION OF PAVEMENT TO PROVIDE POSITIVE FLOWING STORMWATER. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- 25. ALL PEDESTRIAN ACCESS TO SIDEWALKS AND STREETS, INCLUDING CROSSWALKS, CURB RAMP, STREET FURNISHINGS, PEDESTRIAN SIGNALS, PARKING AND OTHER COMPONENTS OF PEDESTRIAN ACCESS PROPOSED IN THE RIGHT-OF-WAY ARE TO BE IN ACCORDANCE WITH ADA & ABA ACCESSIBILITY GUIDELINES AND THE CURRENT PUBLIC RIGHTS-OF-WAY GUIDELINES PROPOSED BY THE ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD (ACCESS BOARD).
- 26. A MINIMUM OF ONE (1) FOOT OF PAVING SHALL BE REMOVED AROUND THE PERIMETER OF ALL MANHOLE AND INLET CASTINGS TO ENSURE A MINIMUM OF TWO (2) INCHES OF SURFACE COURSE IS PROVIDED AROUND THEM. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK".
- 27. SEPARATE PAYMENT WILL NOT BE MADE FOR RESETTING EXISTING UTILITY METERS AND SPRINKLER HEADS REQUIRED FOR THE CONSTRUCTION BEYOND THE ROADWAY CARTWAY. HOWEVER, ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 28. AT ALL LIMITS OF PAVING (L.O.P.) THE CONTRACTOR SHALL SAWCUT, TACK COAT AND SEAL TO MATCH EXISTING PAVEMENT. SEPARATE MEASUREMENT AND PAYMENT FOR ALL THIS WORK SHALL NOT BE MADE AND ALL COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 29. CONTRACTOR IS RESPONSIBLE TO OBTAIN AND PAY FOR ALL REQUIRED GLOUCESTER COUNTY ROAD OPENING PERMITS. SEPARATE PAYMENT WILL NOT BE MADE; ALL COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
- 30. CONTRACTOR SHALL COORDINATE ALL WORK WITH SEPARATE CONTRACTORS FOR ONGOING WORK IN AREAS SURROUNDING THE SITES.
- 31. CONTRACTOR SHALL PROVIDE ENGINEER 48 HOURS ADVANCE NOTICE OF INITIATING WORK BOTH AT THE PROJECT COMMENCEMENT AND AFTER ALL WORK DISCONTINUES.
- 32. CONTRACTOR IS RESPONSIBLE FOR SECURING THEIR WORK AREA AT THE END OF EACH WORK DAY. IT MAY BE NECESSARY, AT THE DISCRETION OF THE CONTRACTOR, TO INSTALL CONSTRUCTION FENCE/BARRIERS TO SECURE THE FUELING FACILITY WORK AREA.
- 33. EXISTING WATER MAIN, SANITARY SEWER, GAS MAIN, STORM SEWER AND ALL OTHER UTILITIES SHALL BE FULLY SUPPORTED AND MAINTAINED DURING INSTALLATION OF THE PROPOSED WORK.

# ESTIMATE/DIST

#	DESCRIPTION
1	SILT FENCE
2	INLET PROTECTION
3	EXCAVATION, UNCLASSIFIED
4	CLEARING SITE NO ITEM
5 6	FUEL PRICE ADJUSTMENT
7	ASPHALT PRICE ADJUSTMENT
8	GEOTEXTILE FABRIC (STORM WATER BASIN STABILIZATION)
9	BASIN SAND, K4 SAND
10 11	I-13 SOIL AGGREGATE, IF & WHERE DIRECTED DENSE GRADED AGGREGATE, 6" THICK
12	DENSE GRADED AGGREGATE, 10" THICK
13	HMA MILLING, 3" OR LESS
14	HOT MIX ASPHALT PAVEMENT REPAIR, IF & WHERE DIRECTED
15	PRIME COAT
16 17	TACK COAT HOT MIX ASPHALT 19M64 BASE COURSE, 4" THICK
18	NO ITEM
19	HOT MIX ASPHALT 9.5M64 SURFACE COURSE, 2" THICK
20	NO ITEM
21	INLET TYPE 'E'
22 23	12" REINFORCED CONCRETE PIPE, CLASS IV 2" HIGH DENSIT Y POLYETHYLENE, SDR-9, SANIT ARY PIPE
24	18" REINFORCED CONCRETE PIPE, CLASS III
25	24" REINFORCED CONCRETE PIPE, CLASS III
26	2" HIGH DENSIT Y POLYETHYLENE PIPE WATER SERVICE
27	CONCRETE PAD, 6" THICK
28 29	CONCRETE SIDEWALK, 4" THICK 9"x18" STEEL FACED CONCRETE VERTICAL CURB
30	CHAIN-LINK FENCE, PVC-COATED STEEL, 6' HIGH
31	CHAIN-LINK FENCE, AUTOMATIC GATE, PVC-COATED STEEL, 25' WIDE
32	REGULATORY AND WARNING SIGNS
33	TRAFFIC MARKINGS, LINES, 4" WIDE
34 35	NO ITEM TRAFFIC MARKING SYMBOLS
36	RIP RAP STONE PROTECTION, 12" THICK (D50=6")
37	CONCRETE WHEEL STOP
38	CONCRETE HEADWALL
39	NOITEM
40 41	NO ITEM BORROW TOPSOIL
42	TOPSOIL SPREADING, 5" THICK
43	FERTILIZING AND SEEDING, TYPE A-3
44	STRAWMULCHING
45 46	6" DIAMETER CONCRETE BOLLARD DIESEL EXHAUST FLUID SYSTEM
40	DOUBLE SIDED HIGH FLOW FUEL DISPENSER WITH DUAL HOSES
48	FUEL MANAGEMENT SYSTEM POS
49	5,000 GALLON FUEL STORAGE TANK
50	DOUBLE CONTAINMENT FUEL PIPING
51	TRANSITION SUMP PUMP
52 53	STEEL ACCESS STAIRS WITH LANDING ELECTRICAL PANEL FOR FUELING SYSTEM
55	CONCRETE FUELING PAD, 1'-0" THICK
55	FUEL MONITORING PANEL
56	3.6'x9' 350 GALLON OIL/WATER SEPARATOR, INCLUSIVE OF ALL ASSOCIATED PIPING, C
57	AND ACCESSORIES UP TO AND EXCLUDING CONNECTION TO NEW PUMP STATION CO SANITARY SEWER PUMP STATION, 3' DIAMETER FIBERGLASS, COMPLETE
58	4" PVC, SDR 35, SANITARY PIPE
59	INSTALLATION OF POLE PARN, COMPLETE, EXCLUSIVE OF ITEMS WITHIN ADD ALTER
60	INSTALLATION OF WASH BAY SYSTEM IN GARAGE #2, INCLUSIVE OF FINISH PLUMBIN
	DRAIN, HOSE REEL AND POWER WASHER, COMPLETE
61 62	ROUGH-IN PLUMBING WORK - GARAGE #2 EXTRA WORK ALLOWANCE
62 63	UTILITY ALLOWANCE
55	
LTE	RNATE ADD OPTIONS
ц	DESCRIPTION
#	DES CRIPTION PROVIDE AND INSTALL NEW INTERIOR METAL STUD/GWB WALLS, DOORS AND FRAM
A1	GARAGE #2
A2	PROVIDE AND INSTALL PLUMBING FIXTURES, FINISHES, AND TOILET & SHOWER ROOM
	ACCESSORIES, COMPLETE IN GARAGE #2
A3	PROVIDE AND INSTALL FINISHES, CABINETRY, AND LOCKERS, COMPLETE IN GARAGE
	PROVIDE AND INSTALL 6" THICK POURED REINEORCED CONCRETE SLAB AND SUDDO
A4	PROVIDE AND INSTALL 6" THICK POURED REINFORCED CONCRETE SLAB AND SURRO BUILDING SIDEWALK/DRIVEWAYS FOR NEW GARAGE BUILDINGS
A4 A5	

A6 PROVIDE AND INSTALL ELECTRICAL SERVICE, PANEL AND POWER TO NEW GARAGE B
 PROVIDE AND INSTALL ELECTRICAL WORK INCLUSIVE BUT NOT LIMITED TO: ELECTRICAL
 A7 CONVENIENCE RECEPTACLES, BUILDING LIGHTING, POWER EQUIPMENT, ETC., COMPLIGARAGE BUILDINGS
 A8 PROVIDE AND INSTALL EMERGENCY GENERATOR AND SERVICE/COMISSION, COMPLI

A9 EXTRA WORK ALLOWANCE

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ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEN
	OVERHEAD WIRE			
	SANITARY FORCE MAIN PIPE	——————————————————————————————————————	FM	
	STORM SEWER PIPE ≤12"	<i>D</i>	D	
	STORM SEWER PIPE > 12"	(SIZE & TYPE)	( <u>SIZE &amp; TYPE)</u>	
	GAS SERVICE	<i>G</i>	G	
	SANITARY SEWER PIPE $\leq 12"$			
	SANITARY SEWER PIPE > 12"	(SIZE & TYPE) = = = = = = = = = = = = = = = = = = =	$\underline{=} \underline{(SIZE} \stackrel{\&}{=} \underline{TYPE}) \underline{=} \underline{=}$	
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	FIBER OPTIC SERVICE	F0	FO	
	TELEPHONE SERVICE	<i>T</i>	T	
	COMMUNICATIONS SERVICE	C	c	RVE)
	IRRIGATION PIPE	IRR	IRR	Å
	WATER SERVICE	w	w	ิ เว
	WATER SHUT-OFF	шŞo		
	WATER METER	W.M O	₩₩	
	WATER VALVE	WV MV	► NEW ► RESET	
	WATER HYDRANT	нçо	♥ NEW ♥ RESET	
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	YARD HYDRANT	C		
	METER PIT	0		
	GAS SHUT-OFF	eSe		
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	GAS VALVE	¢⊁ Ki	► NEW ► RESET	
<b>6</b>	GAS LINE MARKER	<u>G</u>		
Ш́	CLEANOUT	<del>Q</del>	•	MENTAL
E	SEWER VENT	Φ		
TILITIES	INLET TYPE A		NEW RESET RECONSTRUCT	
5	INLET TYPE B		NEW RESET RECONSTRUCT	
	INLET TYPE E		NEW 🛛 RESET/ 🖾 RECONSTRUCT	6
	AREA DRAIN		•	<b>R</b>
	MANHOLES	S SANITARY D DRAINAGE T TELEPHONE 19 WA TER C CA TV 19 UNDERDRAIN E ELECTRIC C GAS 19 UNKNOWN	🛞 NEW ( RESET 🎯 RECONSTRUCT	ENVIRON
	IRRIGATION CONTROL VALVE	Ň	► NEW ► RESET	
	IRRIGATION BOX			
	IRRIGATION CONTROL BOX	$\left  \mathcal{R} \right  $		9
	SPRINKLER HEAD	©	●	
	UNKNOWN VALVE	$\bowtie$		-ANDSCAPING
	COMMUNICATIONS PEDESTAL	Ø		
	COMMUNICATIONS LINE MARKER	<u>_</u>		Ď
	TELEPHONE PEDESTAL			Z
	TELEPHONE LINE MARKER	<u> </u>		
	ELEC. BOX	E		
	ELEC. METER	EM		
	ELEC. TRANSFORMER PAD	(ET)		
	ELEC. VAULT	(ZI)		
	ELEC. LINE MARKER	<u>-</u>		2
	UTILITY POLE	STANDARD W/LIGHT W/SOLAR	تيلي تيلي مع	
	GUY ANCHOR	$\prec$		<b>D</b>
	ELEC. OUTLET	Œ	G	<b>GRADING</b>
I				
	LIGHTS	🌣 POLE 🛛 🧮 AREA	★ ♥	

# **STANDARD LEGEND** NOTE: ALL SYMBOLS MAY NOT BE USED

DESCRIPTION EXISTING ITEM PROPOSED DESCRIPTION CROWS FOOT EDGE OF PAVEMENT `e´ AERIAL TARGET CURB -■ (SET) CONCRETE MONUMENT · PAVEMENT / CONC. / SIDEWALK • (SET) PK / MAG NAIL 0 DRILL HOLE SPIKE DRILL HOLE W/ WINGS - 0 -▲ (SET) STAKE  $\triangle$ ▲ (SET) HUB LIMIT OF EXCAVATION Δ PIN W/ CAP • (SET) **GUIDE RAIL IRON PIPE** DWORK **IRON PIN** • (SET) BOLLARD 🕱 (SET) MAILBOX CROSS CUT DISK O SIGNS STONE FLAG POLE 4 BENCH REBAR RO BASELINE PILE CENTERLINE DETECTABLE WARNING SURFACE 8 EASEMENT TYPICAL STRIPING \_\_\_\_\_ SITE RIGHT-OF-WAY ADA STRIPING TRAFFIC CONTROL BOX PROPERTY BOUNDARY ADJACENT PROPERTY BOUNDARY TRAFFIC LIGHT RAILROAD TRACKS DEPT. OF TRANSPORTATION MANHOLE STATE BOUNDARY STATE HIGHWAY DEPARTMENT MUNICIPAL / COUNTY BOUNDARY RAILROAD CROSSING BEACON CALL BOX � <sup>B−</sup># BORING LOCATION 🔶 В-# OIL FILL ⊕ MW-# UNDERGROUND STORAGE TANK LID MONITORING WELL LOCATION **₽** м₩-# ∎ TP-# TEST PIT LOCATION 📕 TP-# **RISER PIPE** . X F₩-# FRESHWATER WETLAND FLAG RAISED PAVEMENT MARKER FRESHWATER WETLAND LINE FRESHWATER WETLAND BUFFER **BBQ GRILL** \_\_\_\_\_ EDGE OF WATER WATER FOUNTAIN STREAM CENTERLINE KIOSK O MIS AIR CONDITIONER \* \* \* \* \* \* \* \* \* \* GRASS/SOD PARKING METER Shade Grnamental DECIDUOUS TREE FIRE CONTROL VALVE SHRUBS / BUSH BARRICADE Milling Contract EVERGREENS STUMP PHOTO LOCATION AL WOODS / TREE LINE BENCHMARK LOCATION WIRE FENCE \_\_\_\_//\_\_\_\_//\_\_\_\_\_//\_\_\_\_ \_\_\_\_//\_\_\_\_//\_\_\_\_\_//\_\_\_\_ NER TYPICAL SECTION ARROW SPLIT RAIL FENCE \_\_\_\_O\_\_\_O\_\_\_\_ \_\_\_\_O\_\_\_O\_\_\_\_ MATCH LINE WOOD / VINYL FENCE **B D** TYPICAL NORTH ARROW CHAIN-LINK FENCE \_\_\_\_\_X\_\_\_\_X\_\_\_\_\_X\_\_\_\_\_ \_\_\_\_\_X\_\_\_\_X\_\_\_\_\_X\_\_\_\_\_ TOP OF BANK / DITCH \_\_\_\_\_\_*TB* \_\_\_\_\_ S APR. APRON BOTTOM OF BANK / DITCH \_\_\_\_\_\_ *BB* \_\_\_\_\_\_ NO BL BASELINE BM BENCH MARK CONTOUR (MAJOR) \_\_\_\_\_ *5* \_\_\_\_ \_\_ BIT. BITUMINOUS Ĕ BLDG. BUILDING CONTOUR (MINOR) \_\_\_\_\_\_3 \_\_\_\_\_ CENTERLINE C.I.P. CAST IRON PIPE FLOW LINE / SWALE CONC. CONCRETE 5 C.M.P. CORRUGATED METAL PIPE L.S.T. TIME OF CONCENTRATION CULV. CULVERT D.C. DEPRESSED CURB <sub>X</sub>3.48 BR <sub>X</sub> 3.48 SPOT GRADE DH DRILL HOLE TC5.45 DIA. DIAMETER TC5.45 GL4.95 DWY DRIVEWAY ROADWAY GRADE  $\mathbf{m}$ GL 4.95 \_\_\_\_\_ \_\_\_\_ D.I.P. DUCTILE IRON PIPE

DRAINAGE FLOW

 $\implies$ 

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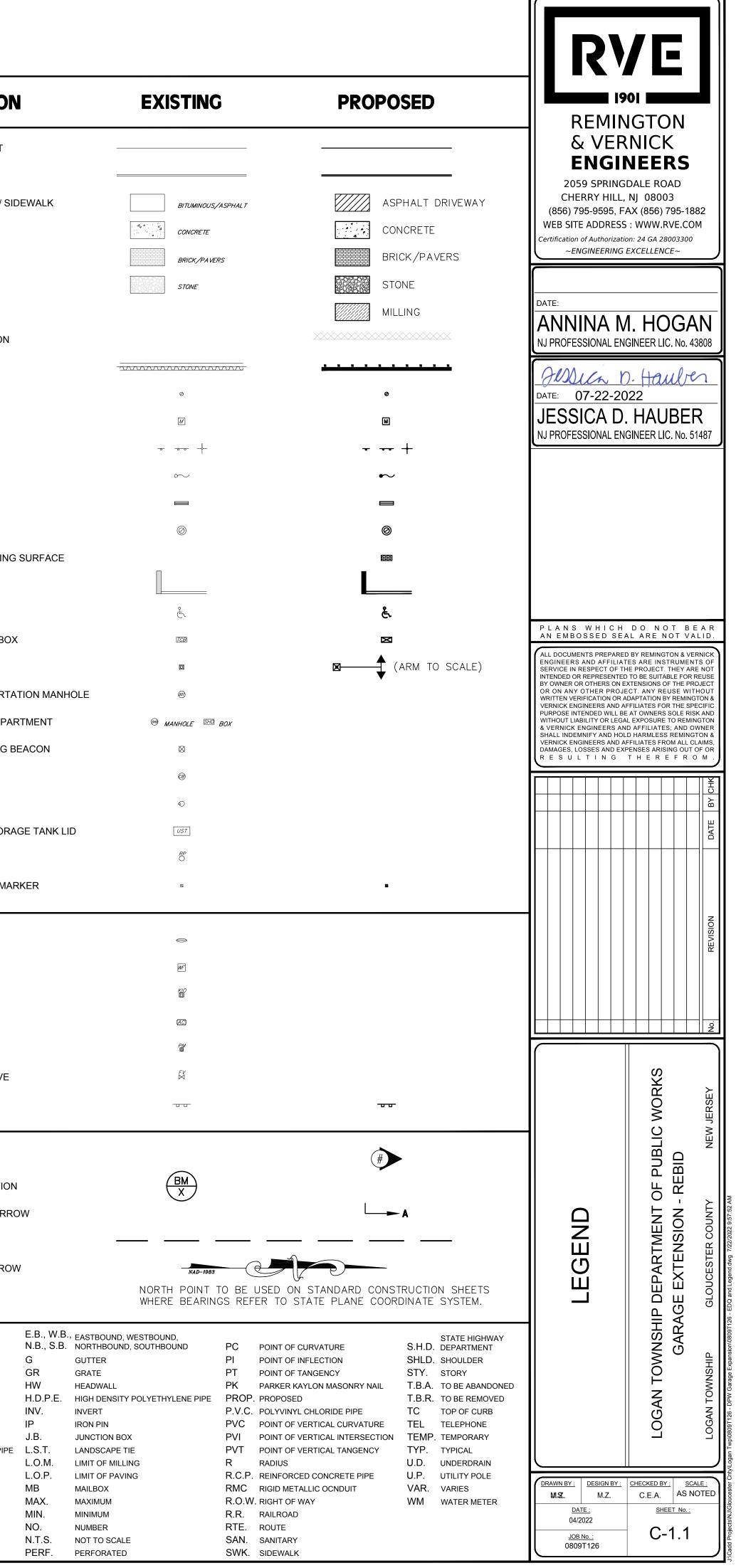
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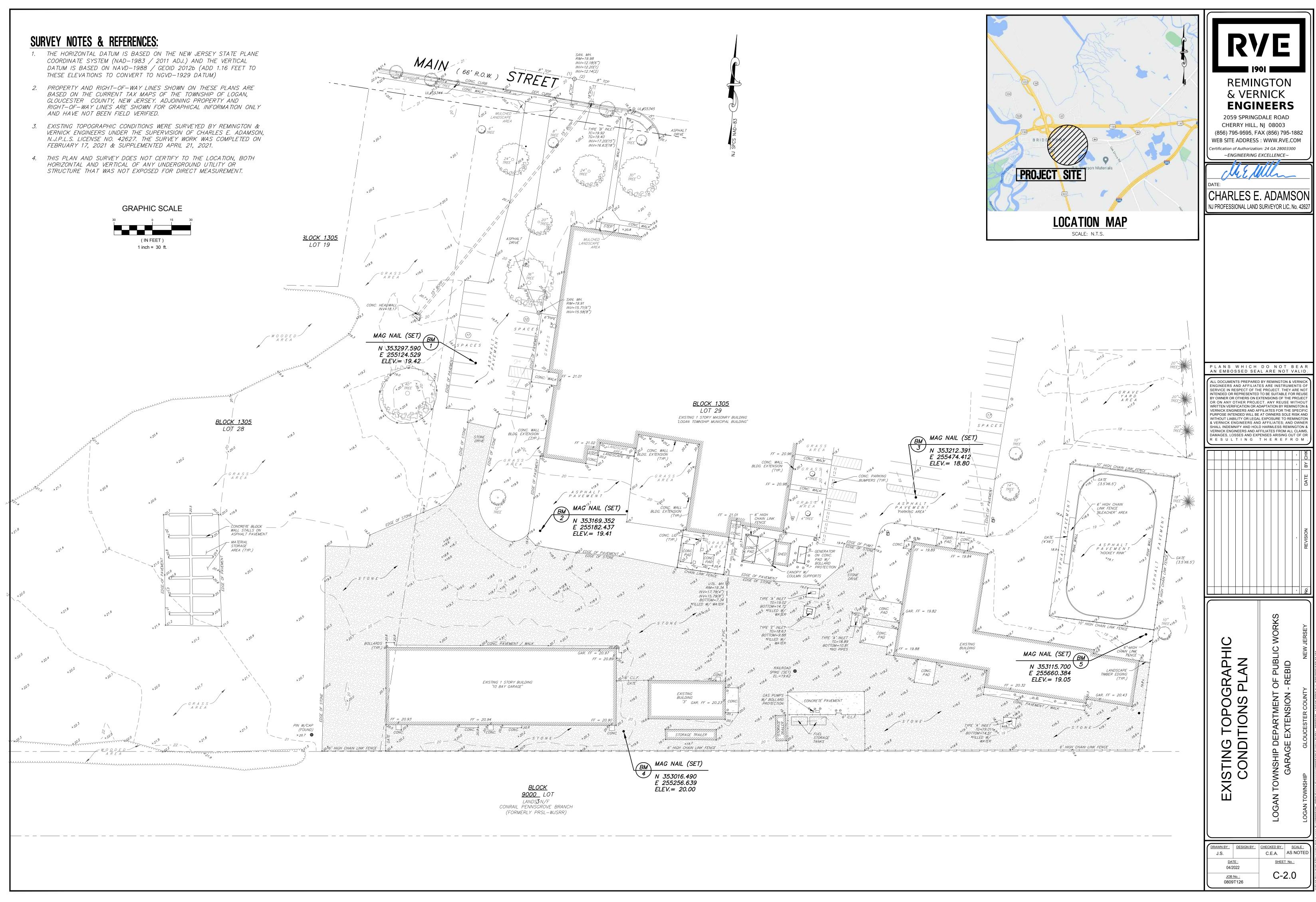
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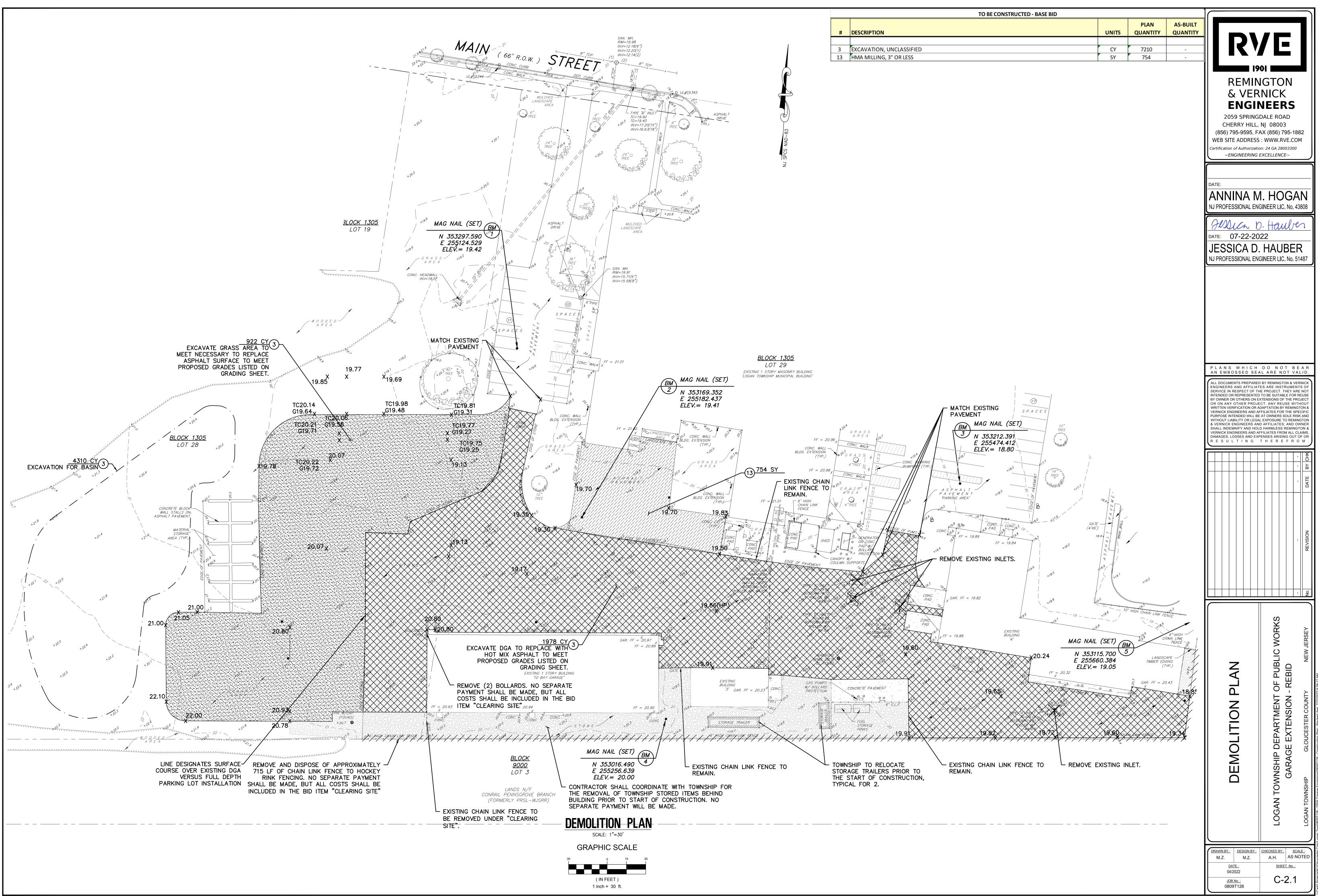
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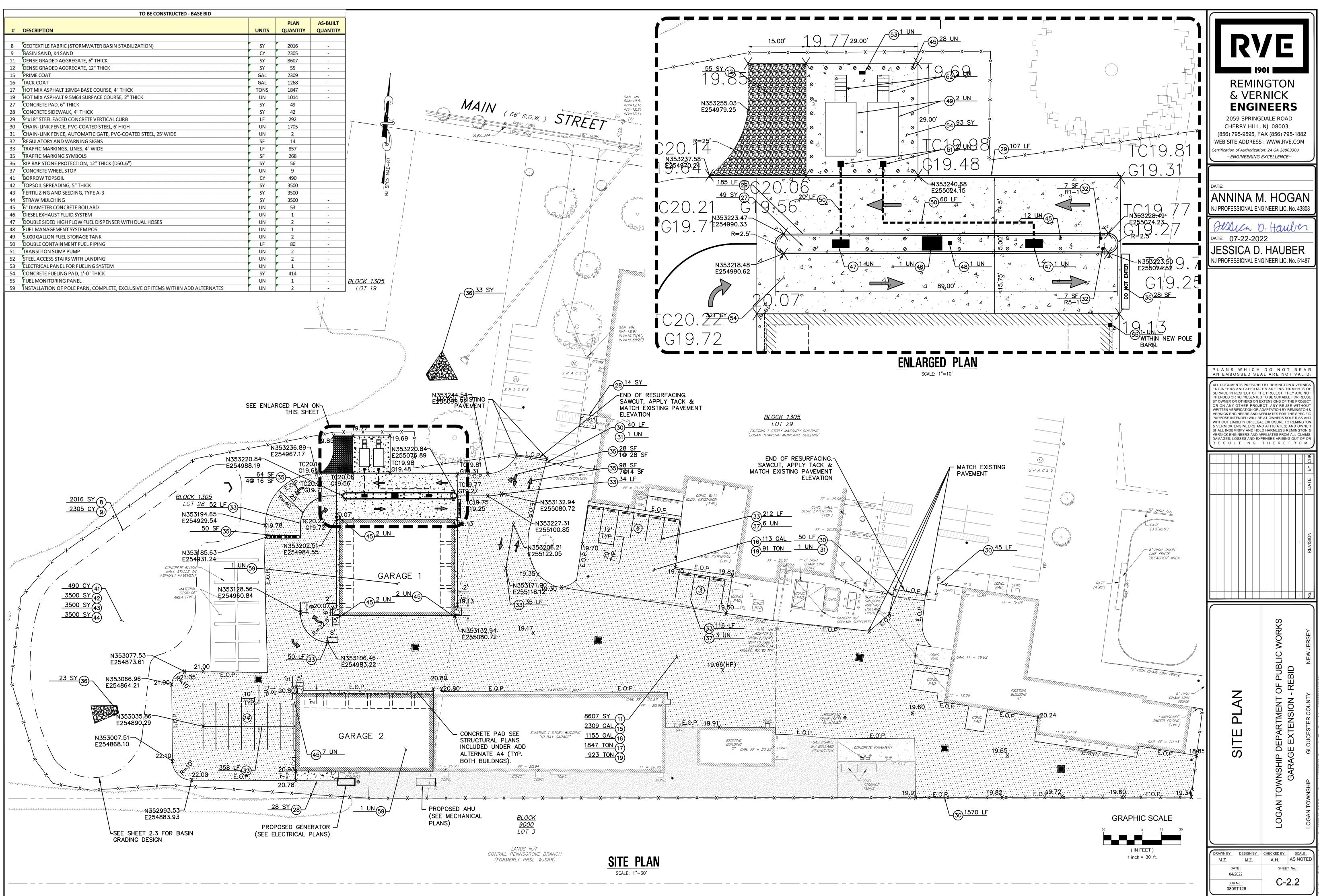
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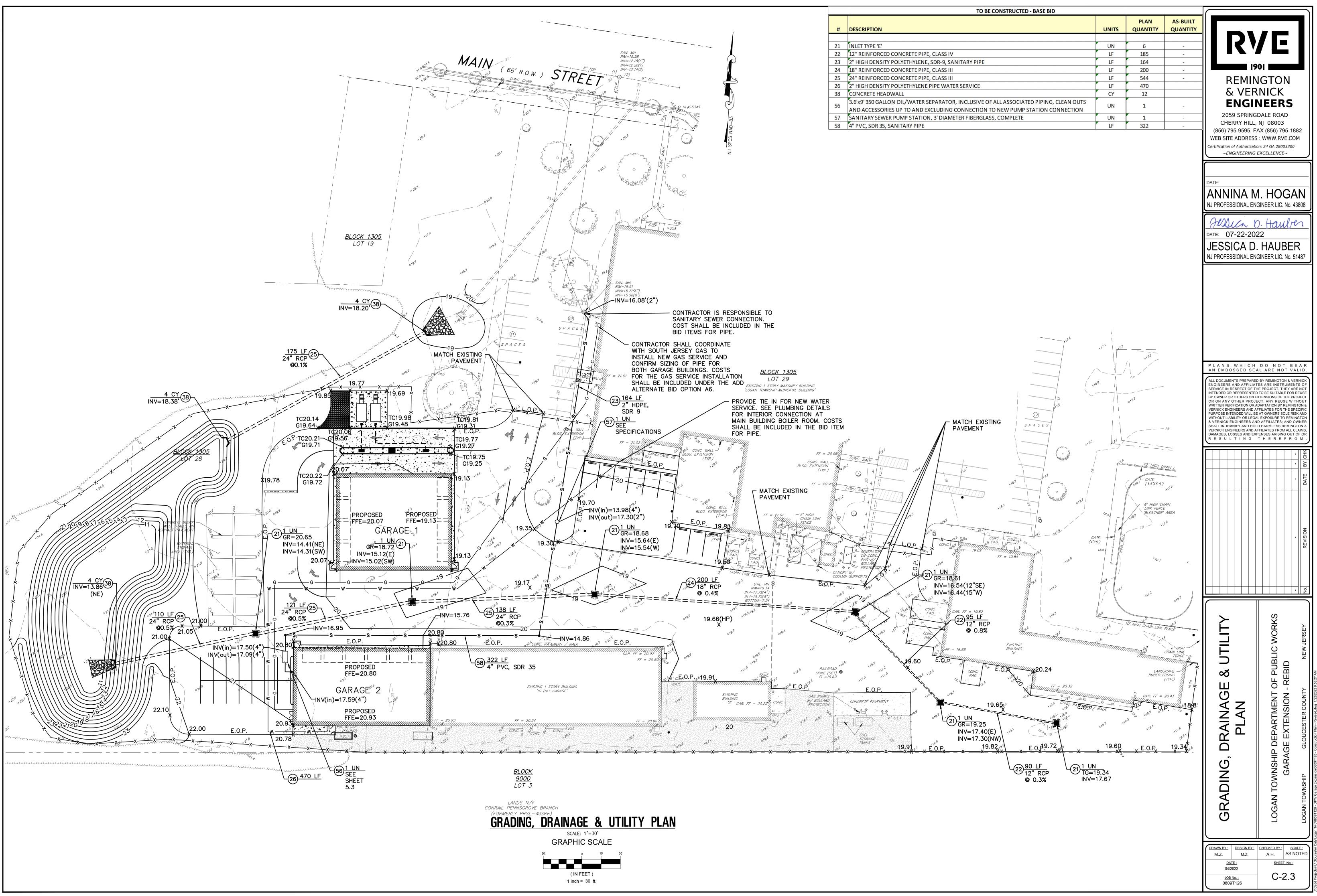


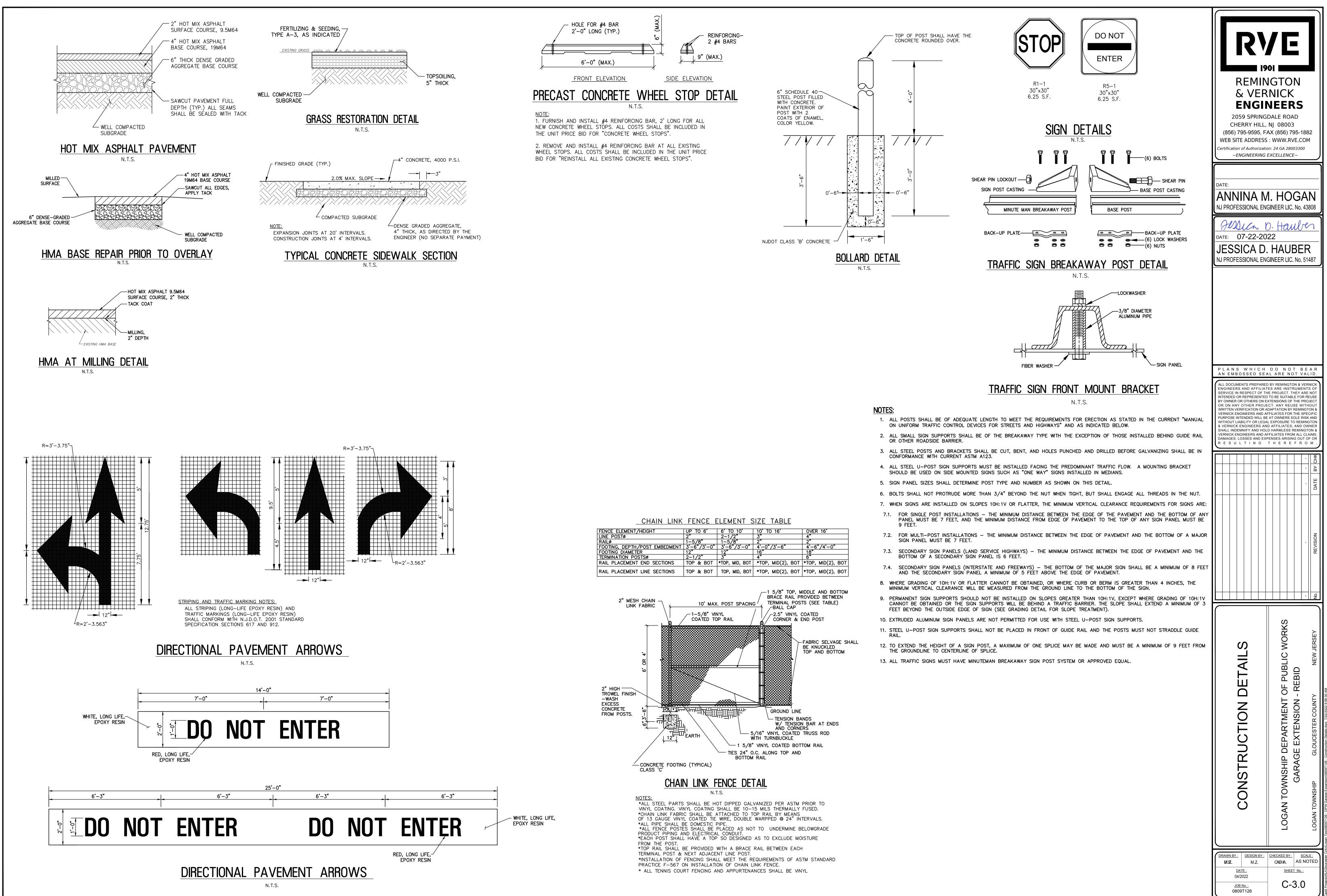


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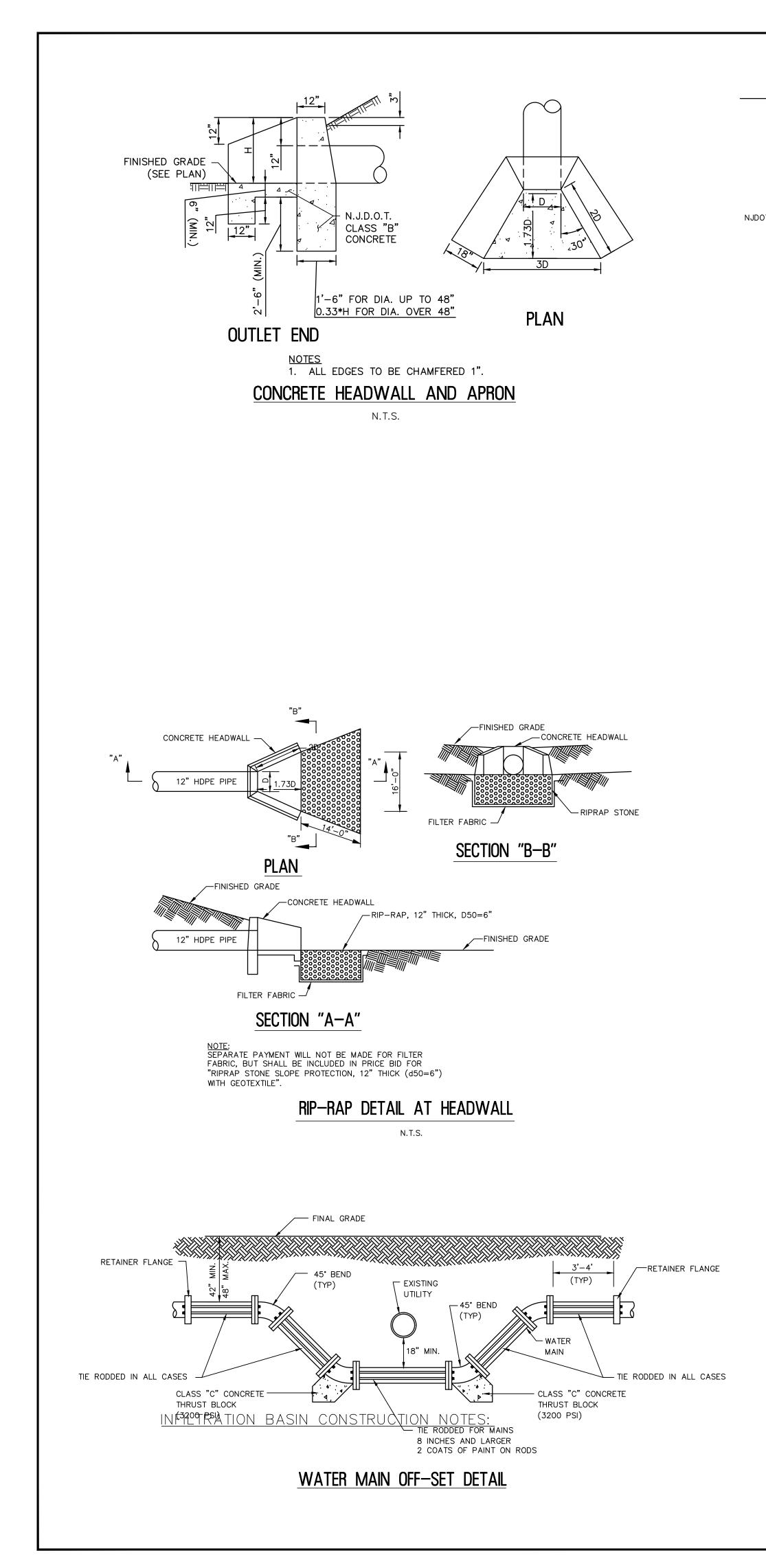


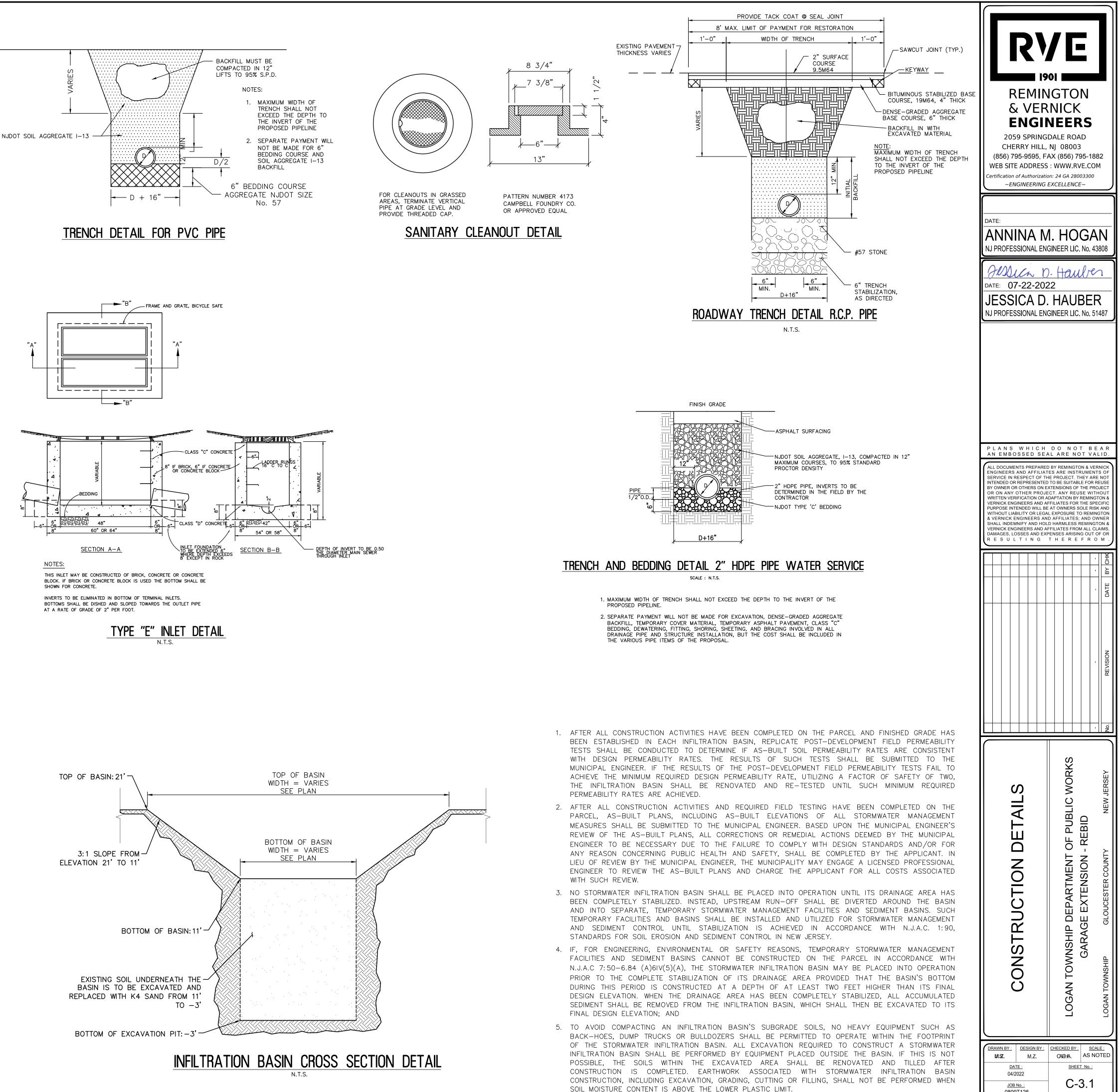




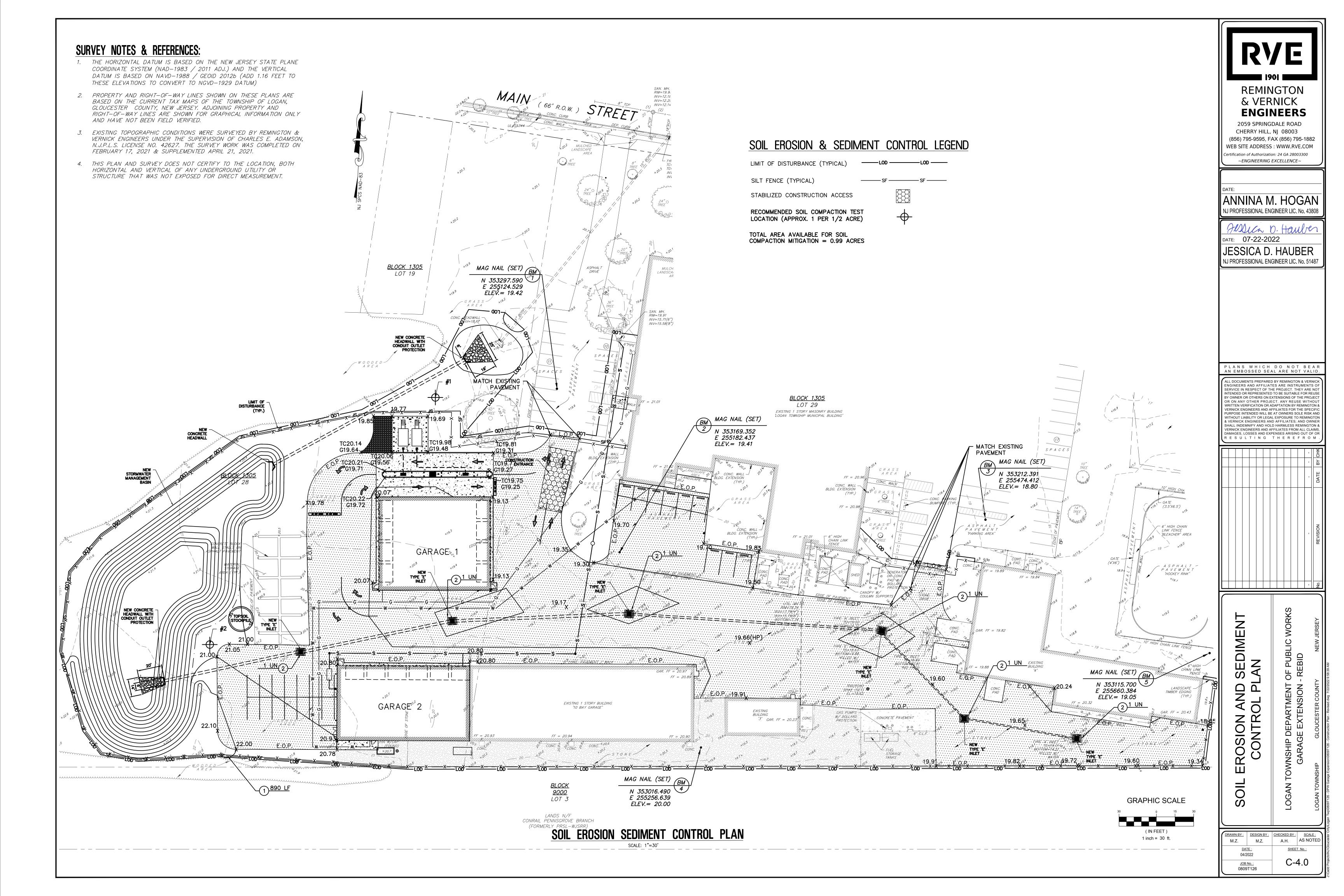


FENCE ELEMENT/ HEIGHT				UVER 10
LINE POSTØ	2"	2-1/2"	3"	4"
RAILØ	1-5/8"	1-5/8"	2"	2"
FOOTING, DEPTH/POST EMBEDMENT	3'-6"/3'-0"	3'-6"/3'-0"	4'-0"/3'-6"	4'-6"/4'-0"
FOOTING DIAMETER	12"	12"	16"	18"
TERMINATION POSTSØ	2-1/2"	3"	4"	6"
RAIL PLACEMENT END SECTIONS	TOP & BOT	*TOP, MID, BOT	*TOP, MID(2), BOT	*TOP, MID(2), B
RAIL PLACEMENT LINE SECTIONS	TOP & BOT	TOP, MID, BOT	*TOP, MID(2), BOT	*TOP, MID(2), B





0809T126



# SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.

2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.

4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS, AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.

 5. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS</u> AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS</u> (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER)
 6. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION, AND RATES OF

APPLICATION AT THE REQUEST OF THE GLOUCESTER SOIL CONSERVATION DISTRICT. 7. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS

PER ACRE, ACCORDING TO THE <u>NEW JERSEY STANDARDS</u> IMMEDIATELY FOLLOWING ROUGH GRADING. 8. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

9. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EACH STORM EVENT.

10. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.

11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2-1/2" CRUSHED STONE OR SUB-BASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.

12. PAVED AREAS MUST BE KEPT CLEAN AT ALL TIMES.

13. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.

14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.

15. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC (SEE DETAIL). THE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.

16. NJSA 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.

17. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.

OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
 A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.

20. THE GLOUCESTER SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY LAND DISTURBANCE.

21. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL SUBSEQUENT OWNERS.

22. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING TOPSOIL, THE STOCKPILE SHALL BE SEEDED STABILIZED ACCORDING TO THE STANDARDS FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL STOCKPILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES AREA NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER. 23. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE

GLOUCESTER SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT <u>NEW JERSEY STANDARDS FOR SOIL</u> EROSION AND SEDIMENT CONTROL. 24. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOIL SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING

SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A pH OF 4 OR LESS. 25. TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE <u>NEW JERSEY STANDARDS</u>, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS</u> (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).

26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1, UNLESS APPROVED BY THE DISTRICT. 27. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE <u>NEW JERSEY STANDARDS</u> AND MAY INCLUDE WATERING WITH A

SOLUTION OF CALCIUM CHLORIDE AND WATER. 28. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.

29. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.

30. ALL VEGETATION MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMAN AND IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS.</u>

31. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPING PLAN.32. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED. AS DIRECTED BY THE DISTRICT

# SEQUENCE OF CONSTRUCTION

INSPECTOR.

CONSTRUCTION WILL PROCEED IN THE FOLLOWING MANNER:

GLOUCESTER SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS IN ADVANCE PRIOR TO THE START OF ANY SOIL DISTURBANCE.

	DURATION WEEKS
INSTALLATION OF SEDIMENT CONTROL MEASURES	1
CLEARING SITE	1
ROUGH GRADE THE SITE/EXCAVATION OF RETENTION BASIN	4
INSTALLATION OF UTILITIES	5
CONSTRUCTION OF THE PRE-ENGINEERED POST BUILDING GARAGES	10
FINAL GRADE THE PROJECT SITE	2
PAVING OPERATIONS (RESTORE ASPHALT AREAS)	3
STABILIZE AREAS WITH PERMANENT STABILIZATION, LANDSCAPING, TOPSOILING, AND SEEDING	1
FINAL SITE CLEANUP, REMOVAL OF THE SOIL EROSION CONTROL DEVICES AFTER PROPER STABILIZATION HAS TAKEN EFFECT (UP TO THREE (3) MONTHS AFTER COMPLETION OF THE WORK OR AS REQUIRED BY THE ENGINEER.	1

TOTAL ESTIMATED WEEKS

\_\_\_\_28

# METHODS AND MATERIALS

## 1. SITE PREPARATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING. B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING. C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING. D. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.

# 2. SEEDBED PREPARATION

A. UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES (HTTP: //NJAES.RUTGERS.EDU/COUNTY/).

FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.
B. WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH 4-INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDED IS PREPARED.
C. HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED REPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID-PRODUCING SOILS FOR SPECIFIC REQUIREMENTS.

# <u>3. SEEDING</u>

A. SEED MIXTURE IS SHOWN IN TABLE 4-3 OR USE A MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS OLD UNLESS RETESTED.

- SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE.
   WARM-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 85° F AND ABOVE.
- PLANTING RATES FOR WARM-SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS. 3. COOL-SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 85° F. MANY GRASSES BECOME ACTIVE AT 65° F. ADJUSTMENT OF PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PLS IS NOT REQUIRED FOR COOL SEASON GRASSES.
- B. CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT
   FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO
   1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
   C. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS

IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED. D. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION 4-MULCHING BELOW). HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.

# 4. MULCHING

- MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.
  A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1–1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED. APPLICATION SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION. ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
- 1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
- 2. MULCH NETTINGS STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
- 3. CRIMPER (MULCH ANCHORING COULTER TOOL) A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
- 4. LIQUID MULCH-BINDERS MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.
- a. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.
- b. USE ONE OF THE FOLLOWING:
  - (1) ORGANIC AND VEGETABLE BASED BINDERS NATURALLY OCCURRING, POWDER-BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURF GRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.
- (2) SYNTHETIC BINDERS HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND, FOLLOWING APPLICATION OF MULCH, DRYING AND CURING, SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. BINDER SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

- B. WOOD-FIBER OR PAPER-FIBER MULCH SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- C. PELLETIZED MULCH COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE. APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

# 5. IRRIGATION (WHERE FEASIBLE)

6. TOPDRESSING

IF SOIL MOISTURE IS DEFICIENT SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH APPLIED UP TO TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

SINCE SOIL ORGANIC MATTER CONTENT AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) ARE PRESCRIBED IN SECTION 2A – SEEDBED PREPARATION IN THIS STANDARD, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCE, TOPDRESS WITH 10–10–10 OR EQUIVALENT AT 300 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.

# 7. ESTABLISHING PERMANENT VEGETATIVE STABILIZATION

THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN TABLE 4–3 ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN APPLICATION RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO REQUESTING A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES APPLY TO ALL METHODS OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVER (OF THE SEEDED SPECIES) AND MOWED ONCE. NOTE THIS DESIGNATION OF MOWED ONCE DOES NOT GUARANTEE THE PERMANENCY OF THE TURF SHOULD OTHER MAINTENANCE FACTORS BE NEGLECTED OR OTHERWISE MISMANAGED.

# PERMANENT VEGETATIVE MIXTURES AND PLANTING RATES

KIND OF SEED	MINIMUM PURITY (%)	MINIMUM GERMINATION (%)	PERCENT OF TOTAL OF MIXTURE WEIGHT
TALL FESCUE	95	80	90
KENTUCKY BLUEGRASS	85	75	10

1. SEED MIX: 90% TALL FESCUE AND 10% KENTUCKY BLUEGRASS

RECOMMENDED SEEDING PERIODS ARE 3/15 TO 5/31 AND 8/15 TO 10/30.
 SUMMER SEEDING, 6/1 TO 8/14, SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

4. THE CONTRACTOR SHALL PLANT THE SEED AT A RATE OF TWENTY (20) POUNDS PER ACRE.

# 1. MATERIALS

A. TOPSOIL SHOULD BE FRIABLE, LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHOS PER CENTIMETER. MORE THAN 0.5 MILLIMHOS MAY DESICCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH ). TOPSOIL HAULED IN FROM OFFSITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.

B. TOPSOIL SUBSTITUTE IS A SOIL MATERIAL WHICH MAY HAVE BEEN AMENDED WITH SAND, SILT, CLAY, ORGANIC MATTER, FERTILIZER OR LIME AND HAS THE APPEARANCE OF TOPSOIL. TOPSOIL SUBSTITUTES MAY BE UTILIZED ON SITES WITH INSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGETATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF SAND, SILT, CLAY, ORGANIC MATTER, SOLUBLE SALTS AND PH LEVEL.

2. STRIPPING AND STOCKPILING

- A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.B. STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
- C. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5. IN LIEU OF SOIL TESTS, SEE LIME RATE GUIDE IN SEEDBED
- PREPARATION FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 4–1. D. A 4–6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL. E. STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE
- OFF-SITE ENVIRONMENTAL DAMAGE.
  F. STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED HEREIN; SEE STANDARDS FOR PERMANENT (PG. 4–1) OR TEMPORARY (PG.7–1) VEGETATIVE COVER FOR SOIL STABILIZATION. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.
- 3. SITE PREPARATION
- A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE.
   B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED
- PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE. SEE THE STANDARD FOR LAND GRADING, PG. 19–1.
  C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED. SHOULD BE APPLIED TO BRING SOIL TO A PH OF APPROXIMATELY 6.5 AND INCORPORATED INTO
- THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES. D. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING, PAGE 19–1.
- E. EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.
- 4. APPLYING TOPSOIL A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL
- STRUCTURE; I.E., LESS THAN FIELD CAPACITY (SEE GLOSSARY). B. A UNIFORM APPLICATION TO A DEPTH OF 6 INCHES (UNSETTLED) IS RECOMMENDED. SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A PH OF 5.0 OR MORE, IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL (PG. 1–1).
- C. PURSUANT TO THE REQUIREMENTS IN SECTION 7 OF THE STANDARD FOR PERMANENT VEGETATIVE STABILIZATION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT PERMANENT VEGETATIVE COVER BECOMES ESTABLISHED ON AT LEAST 80% OF THE SOILS TO BE STABILIZED WITH VEGETATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTOR TO INCLUDE SOME OR ALL OF THE FOLLOWING: SUPPLEMENTAL SEEDING, RE-APPLICATION OF LIME AND FERTILIZERS, AND/OR THE ADDITION OF ORGANIC MATTER (I.E. COMPOST) AS A TOP DRESSING. SUCH ADDITIONAL MEASURES SHALL BE BASED ON SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY FACILITIES QUALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES.

# SPECIAL NOTES

TEMPORARY STABILIZATION – ALL EXPOSED AREAS NOT TO BE CONSTRUCTED UPON WITHIN 30 DAYS SHOULD BE TEMPORARY STABILIZED.

PERMANENT STABILIZATION – ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED SHOULD BE SEEDED WITHIN 10 DAYS OF FINAL GRADING ACCORDING TO THE STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION.

TOTAL AREA OF LAND DISTURBANCE = <u>3.9 ACRES</u>

## SOIL DE-COMPACTION AND TESTING REQUIREMENTS

A. SOIL COMPACTION TESTING REQUIREMENTS

1. SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

- 2. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
- 3. <u>COMPACTION TESTING LOCATIONS</u> ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
- 4. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.
- B. COMPACTION TESTING METHODS
- 1. PROBING WIRE TEST (SEE DETAIL)
- 2. HAND-HELD PENETROMETER TEST (SEE DETAIL)
- 3 .TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- 4. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

# NOTES:

ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

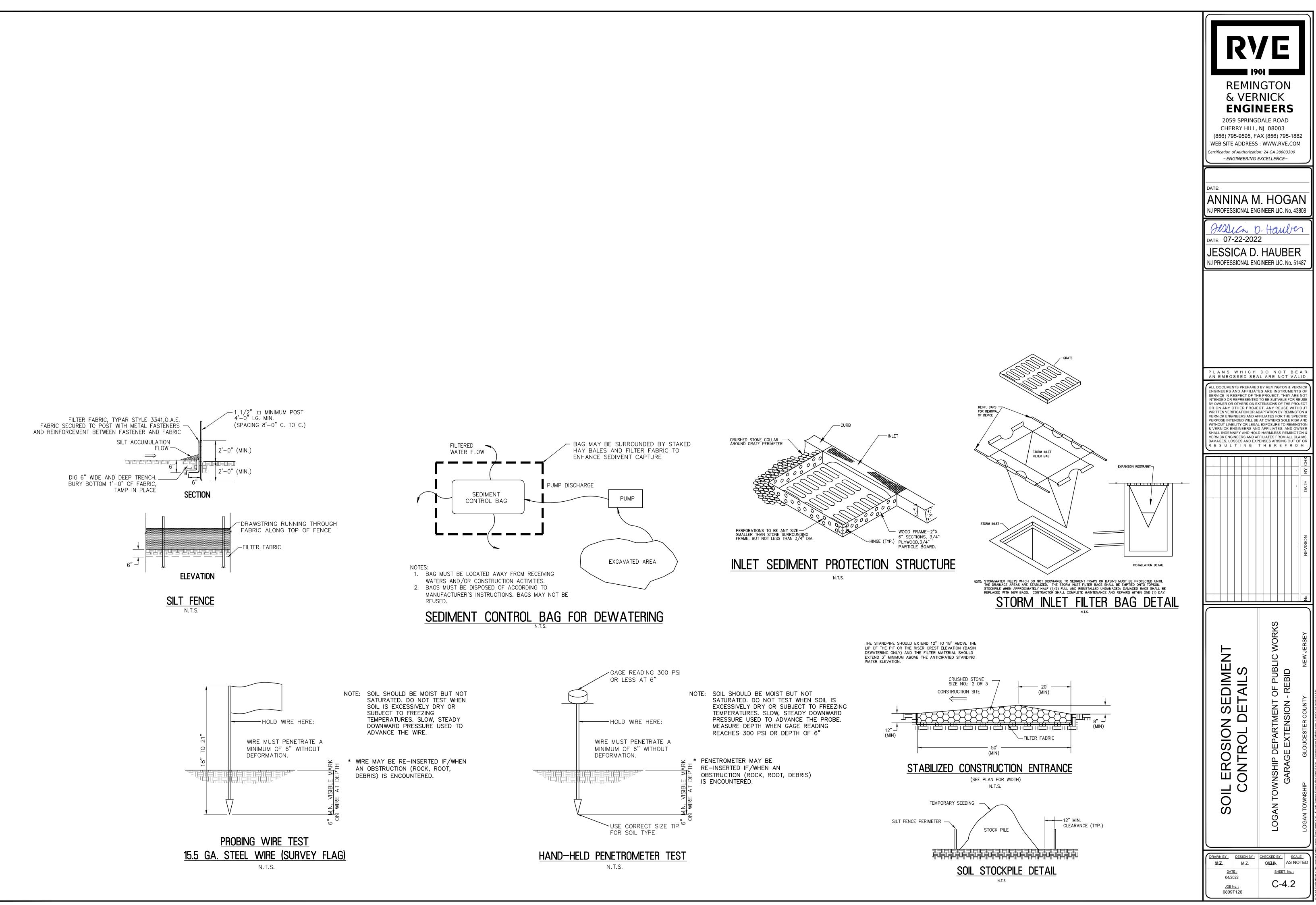
SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

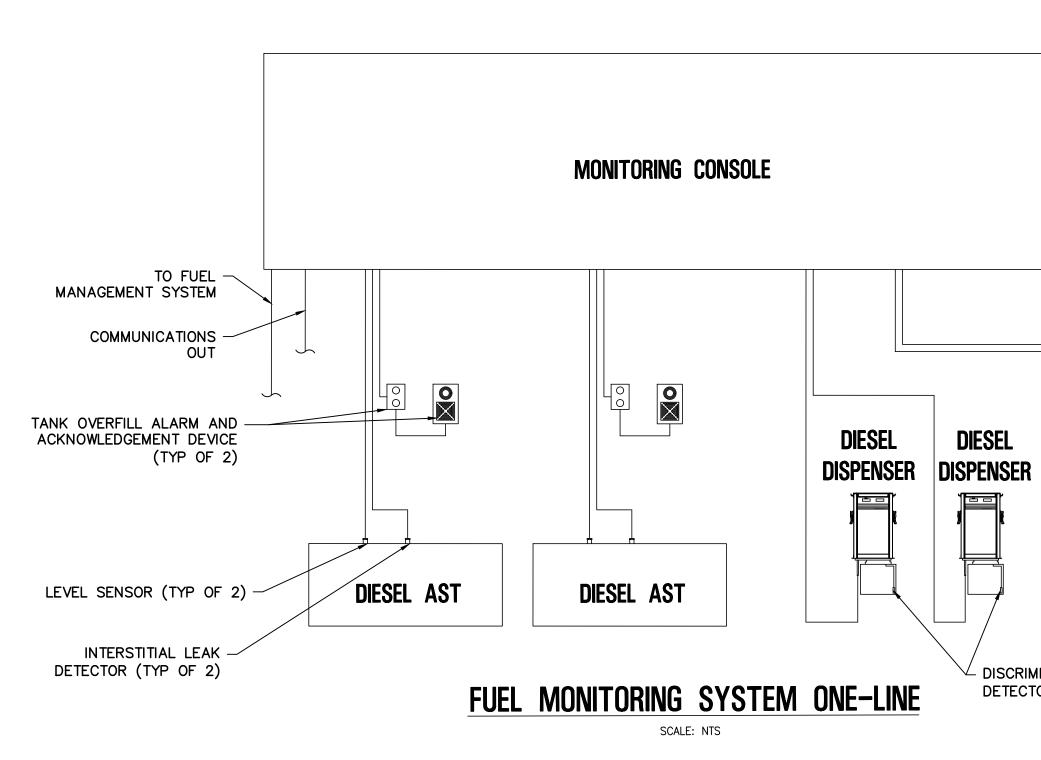
C. PROCEDURES FOR SOIL COMPACTION MITIGATION

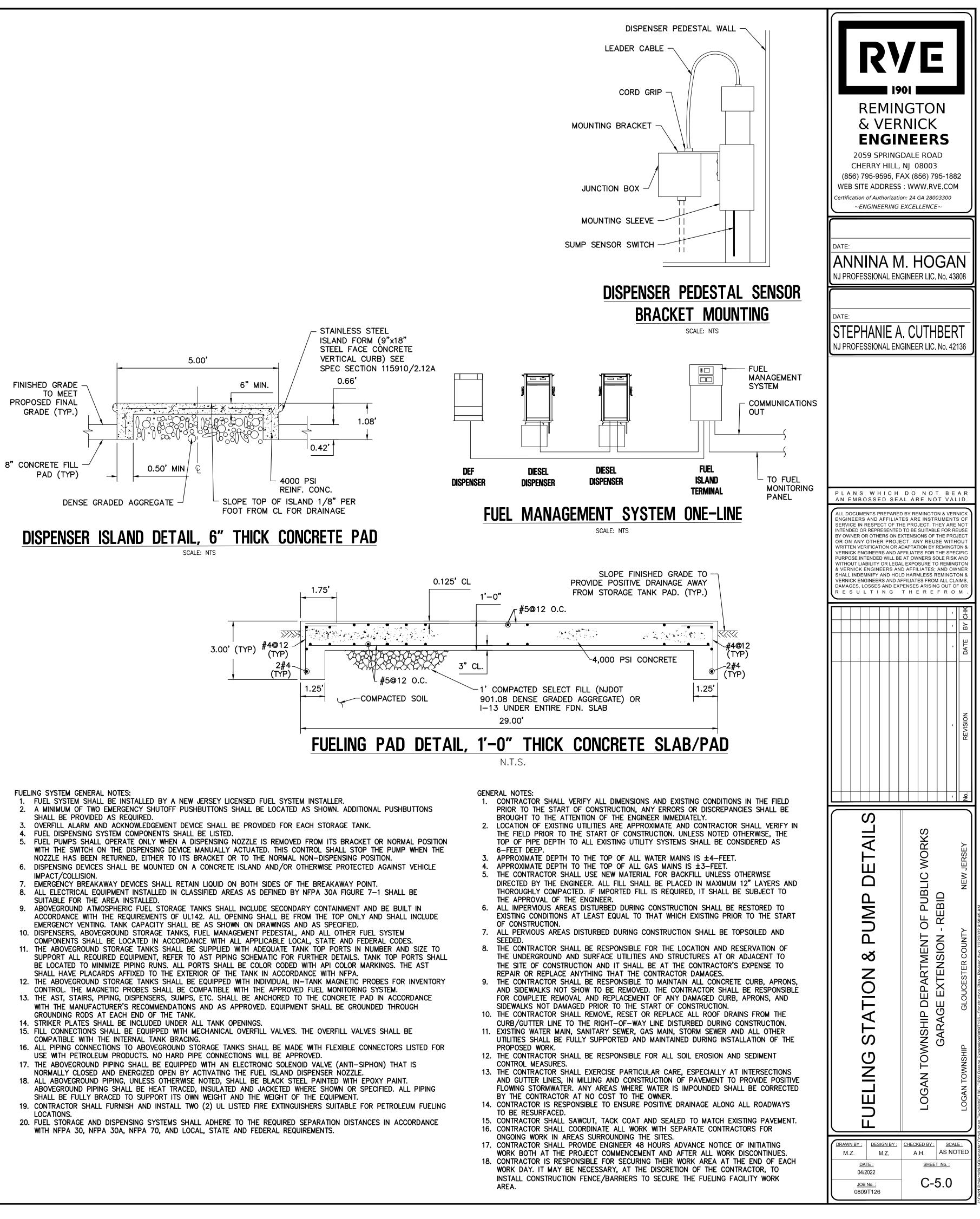
1. PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

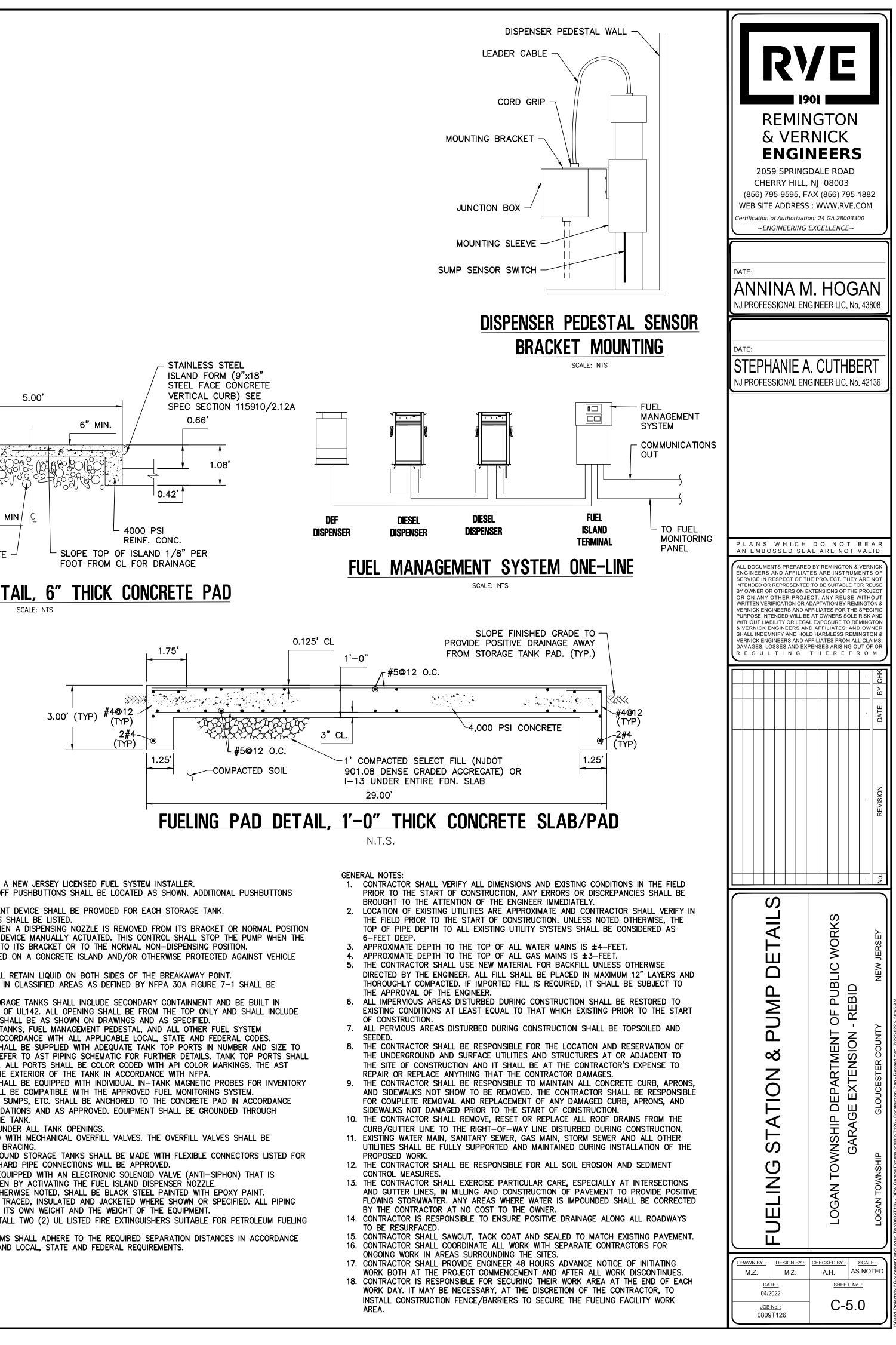
2. RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAYBE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

Image: Solution of the second of the seco	AND SEDIMENT DL NOTES RTMENT OF PUBLIC WORKS ENSION - REBID		ALL DOCUMENTS PREPARED BY REMINGTON & VERNIC ENGINEERS AND AFFILIATES ARE INSTRUMENTS O SERVICE IN RESPECT OF THE PROJECT. THEY ARE NO INTENDED OR REPRESENTED TO BE SUITABLE FOR REUS BY OWNER OR OTHER SON EXTENSIONS OF THE PROJEC OR ON ANY OTHER PROJECT. ANY REUSE WITHOU WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON. VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFI- PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AN WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTO & VERNICK ENGINEERS AND AFFILIATES; AND OWNEI SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS DAMAGES, LOSSES AND EXPENSES ARISING OUT OF O R E S U L T I N G T H E R E F R O M	PLANS WHICH DO NOT BEAD AN EMBOSSED SEAL ARE NOT VALID	NJ PROFESSIONAL ENGINEER LIC. No. 43808 DATE: 07-22-2022 JESSICA D. HAUBER NJ PROFESSIONAL ENGINEER LIC. No. 51487	DATE: ANNINA M. HOGAN	REMINGTON BOOM REMINGTON BOOM REMINGTON BOOM SEARNICK BOOM BOOM BOOM BOOM BOOM BOOM BOOM BOO
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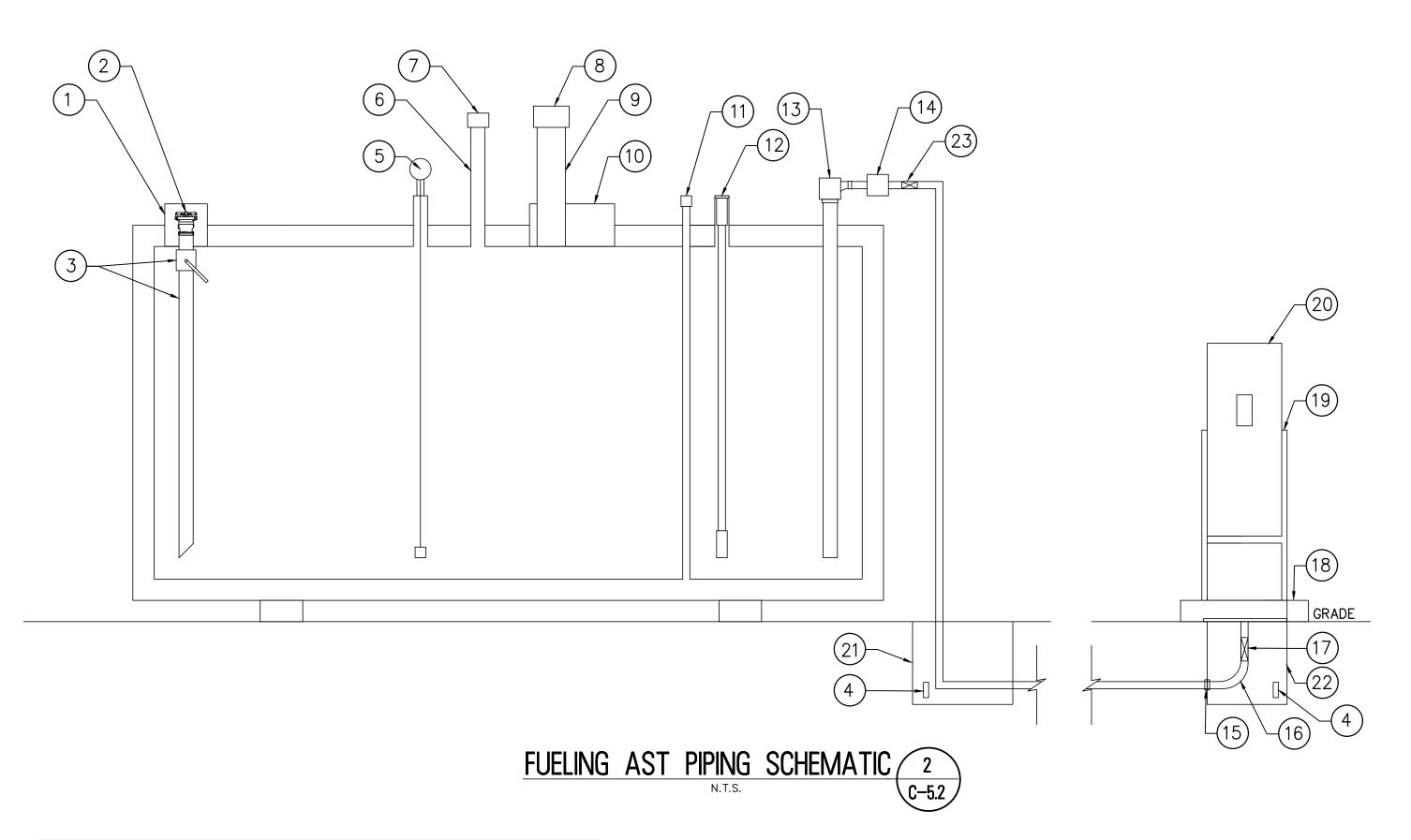




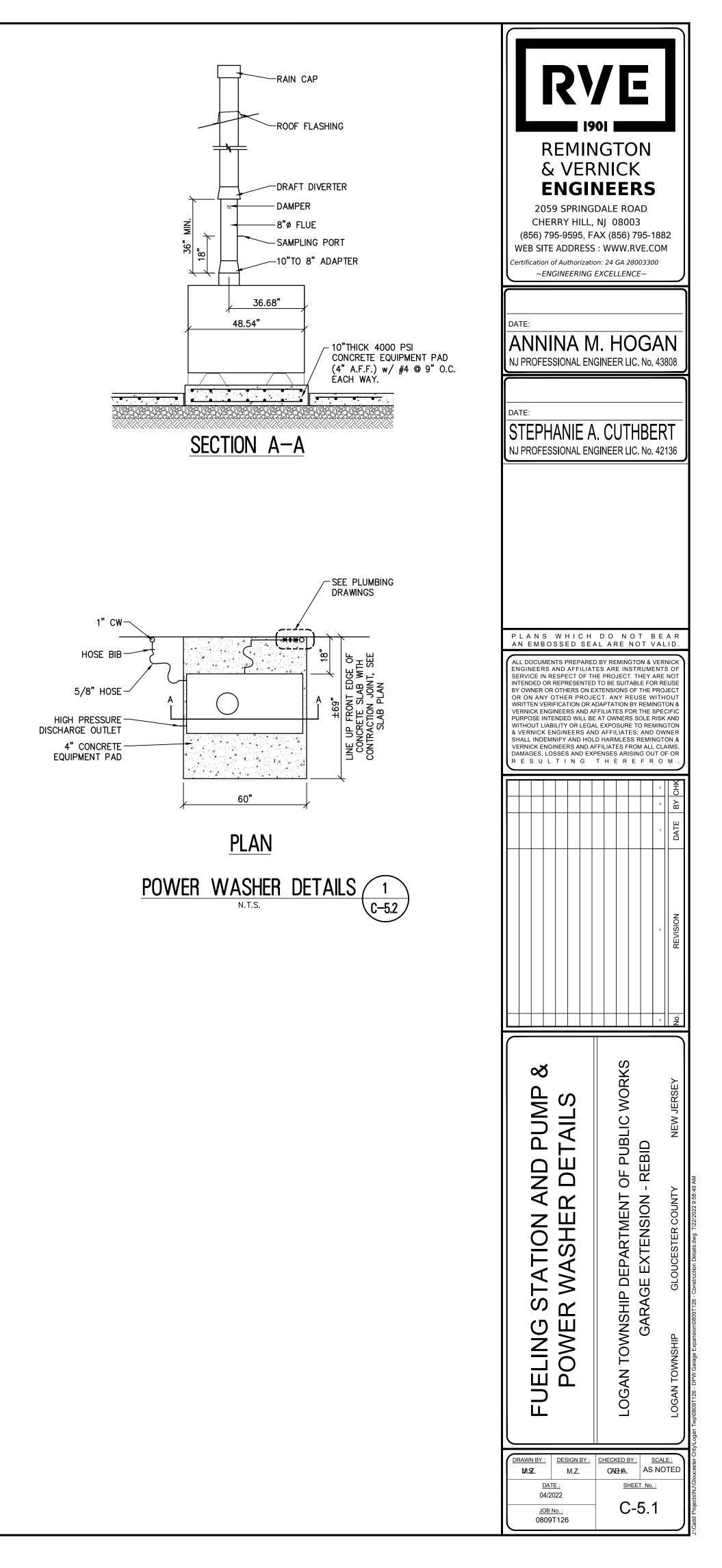


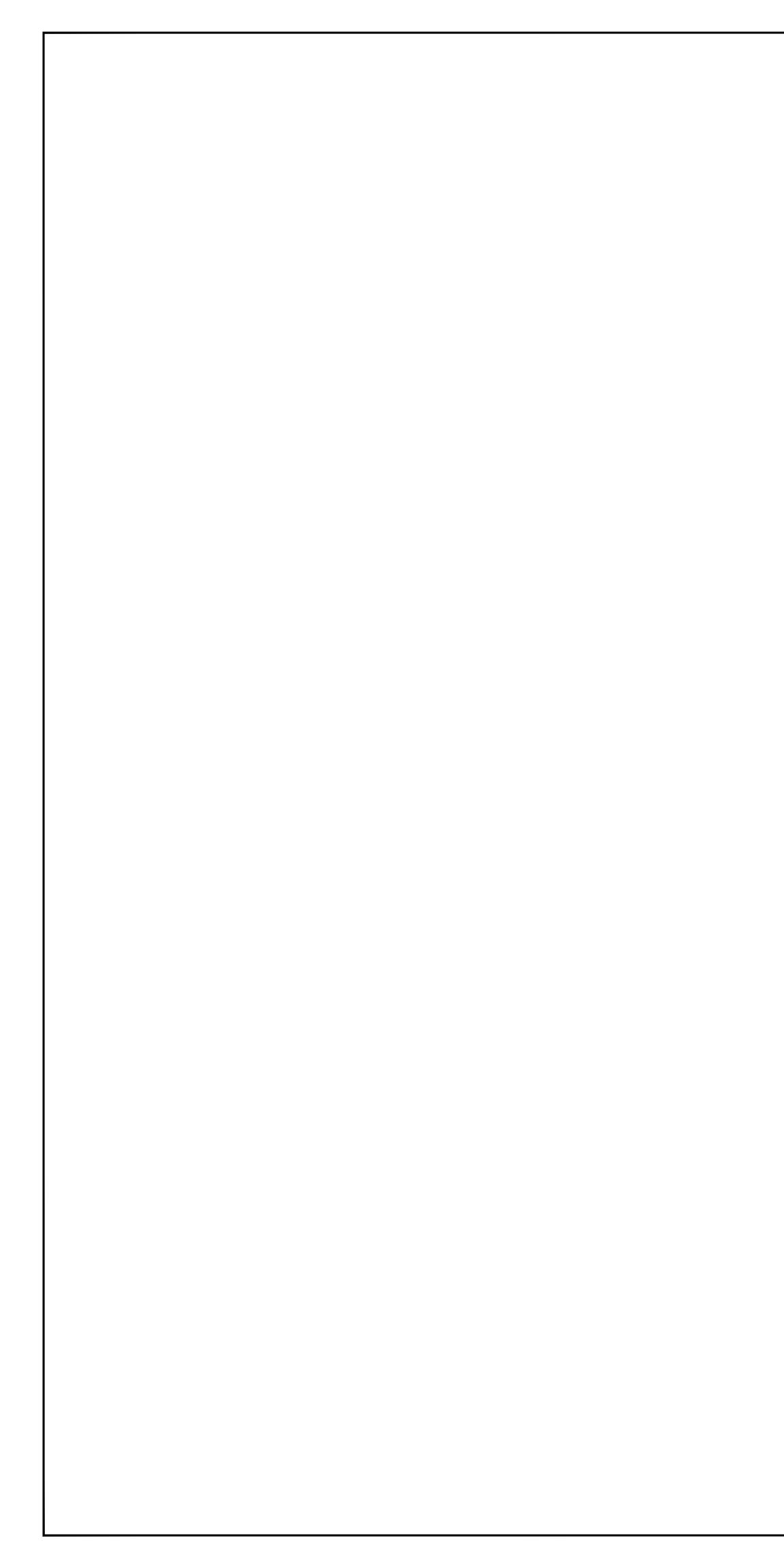


TRANSITION SUMP (TYP OF 2) DISCRIMINATING LEAK DETECTOR (TYP OF 4)

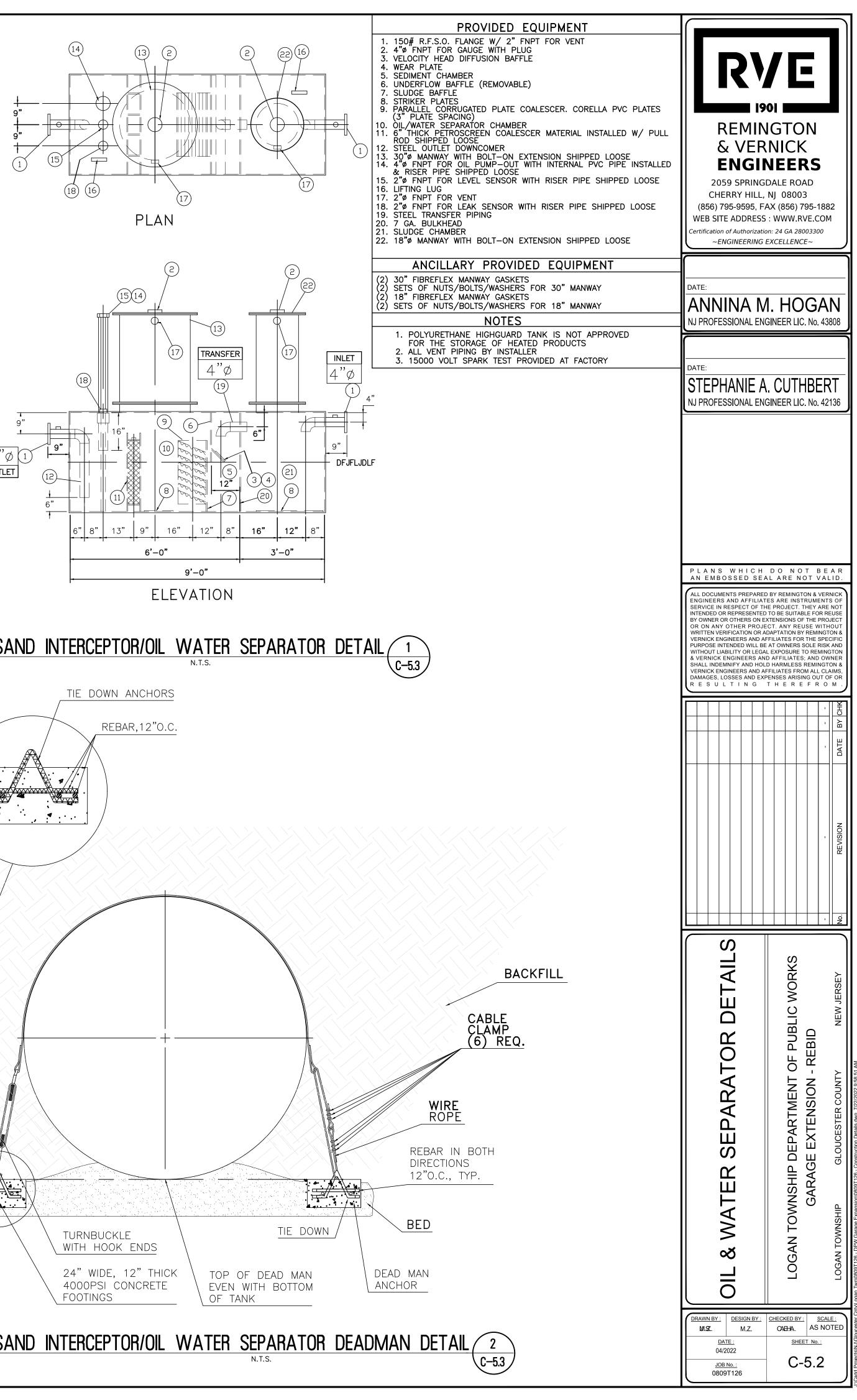


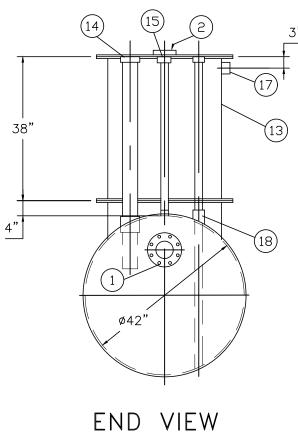
	TO BE CONSTRUCTED
ITEM	DESCRIPTION
1	FILL PIPE OVERFILL CONTAINMENT
2	FILL PIPE COUPLING
3	OVERFILL PREVENTION VALVE AND DROP TUBE (TYP OF 2)
4	LEAK SENSOR
5	TANK LEVEL GAUGE
6	2" NORMAL VENT PIPE
7	VENT CAP
8	EMERGENCY VENT CAP
9	8" EMERGENCY VENT PIPE
10	24-INCH MANWAY
11	INTERSTITIAL LEAK SENSOR
12	MAGPROBE
13	SUBMERSIBLE PUMP WITH LINE LEAK DETECTOR
14	ANTI-SIPHON VALVE
15	FLEXIBLE ENTRY BOOT
16	2-INCH FLEXIBLE CONNECTION
17	DOUBLE POPPET SHEAR VALVE
18	FUELING ISLAND, SEE DETAIL
19	6-INCH PIPE BOLLARD, SEE DETAIL
20	FUEL DISPENSER WITH HOSE, NOZZLES, BREAKAWAY CONNECTIONS, AND HOSE RETRIEVERS
21	TRANSITION SUMP
22	DISPENSER SUMP WITH AST PEDESTAL STABILIZER BAR KIT AND VALVE MOUNTING BRACKET
23	2-INCH FULL PORT BALL VALVE

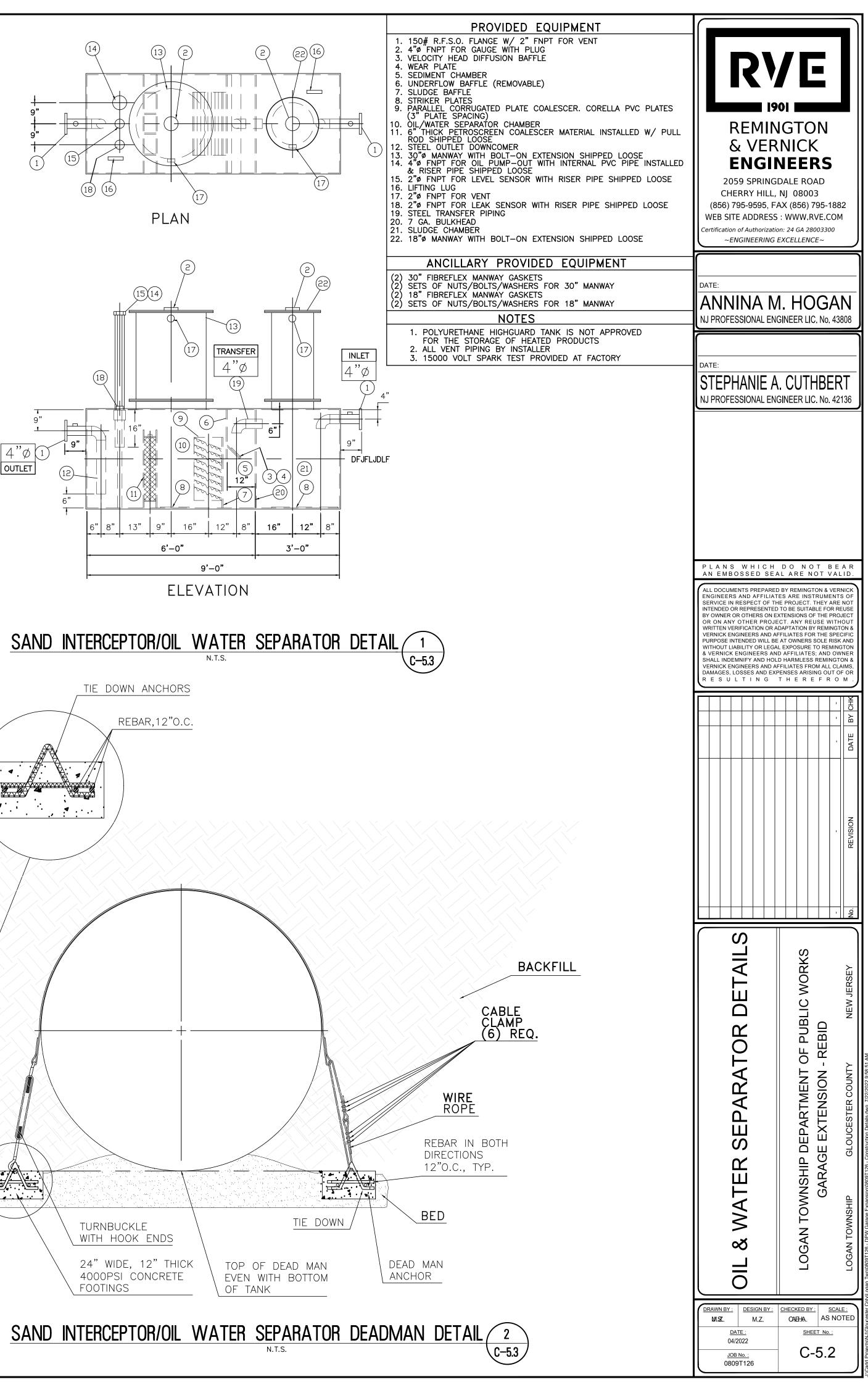


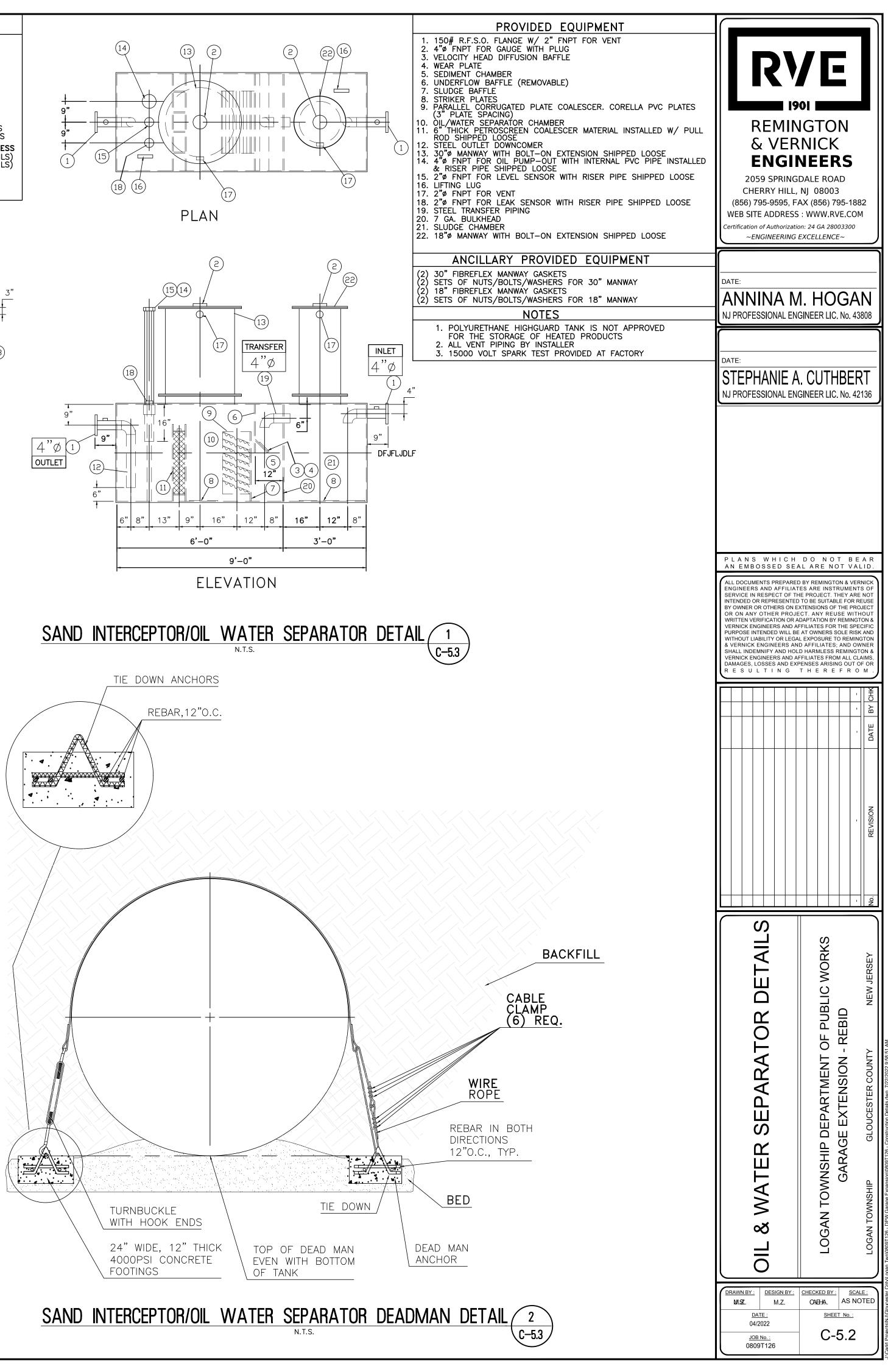


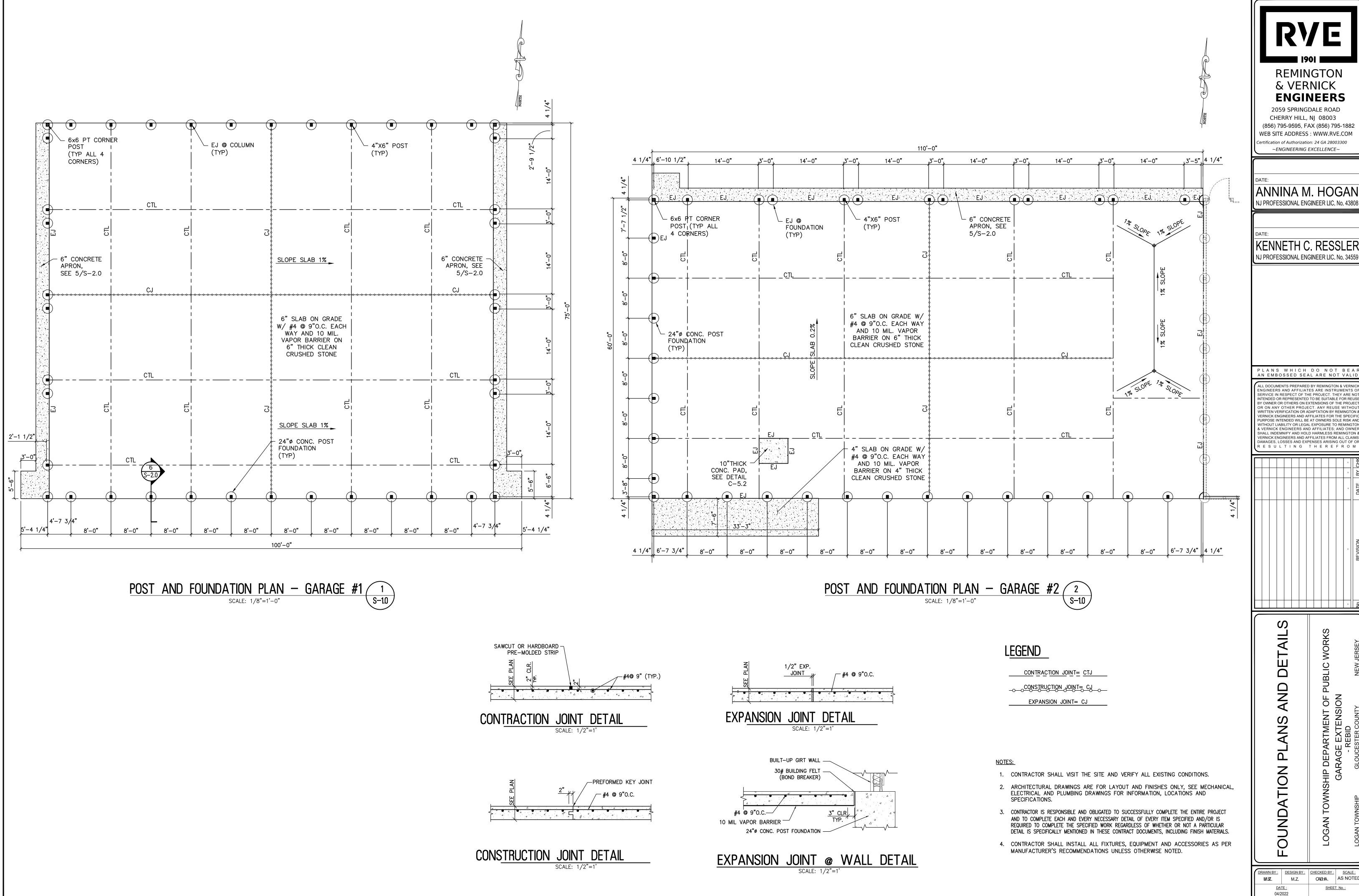
GENERAL SPECIFICATIONS NO. REQ'D: (1) CAPACITY: 350 GALLONS TYPE: HTC-G, HIGHGUARD, DW TYPE I 360 MATERIAL: MILD CARBON STEEL FLOW RATE: 35 GPM GAUGE: BASED ON 60" MAX BURIAL INNER OUTER SHELL- 7 GA. 10 GA. HEADS- 7 GA. 10 GA. SURFACE PREP: SSPC NO.6 BLAST ALL EXTERIOR SURFACES SSPC NO.10 BLAST ALL INTERIOR SURFACES COATING: MATERIAL THICKNESS EXTERIOR-(75 MILS) (15 MILS) HIGHGUARD INTERIOR- CHEMLINE 4200 PW **CONSTRUCTION** : LAP FIT & WELD ALL EXTERIOR SEAMS **OPERATING PRESSURE :** ATMOSPHERIC





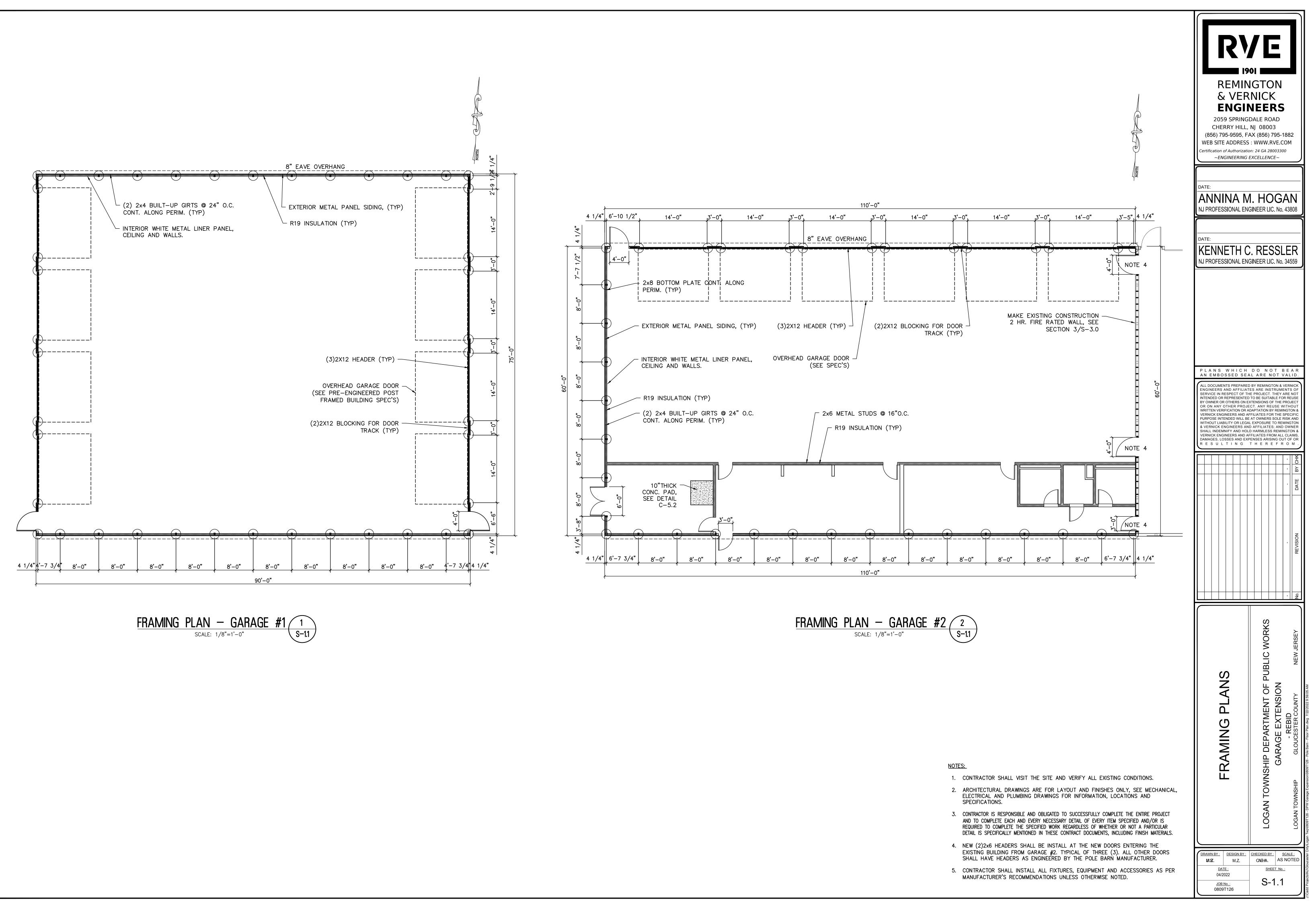


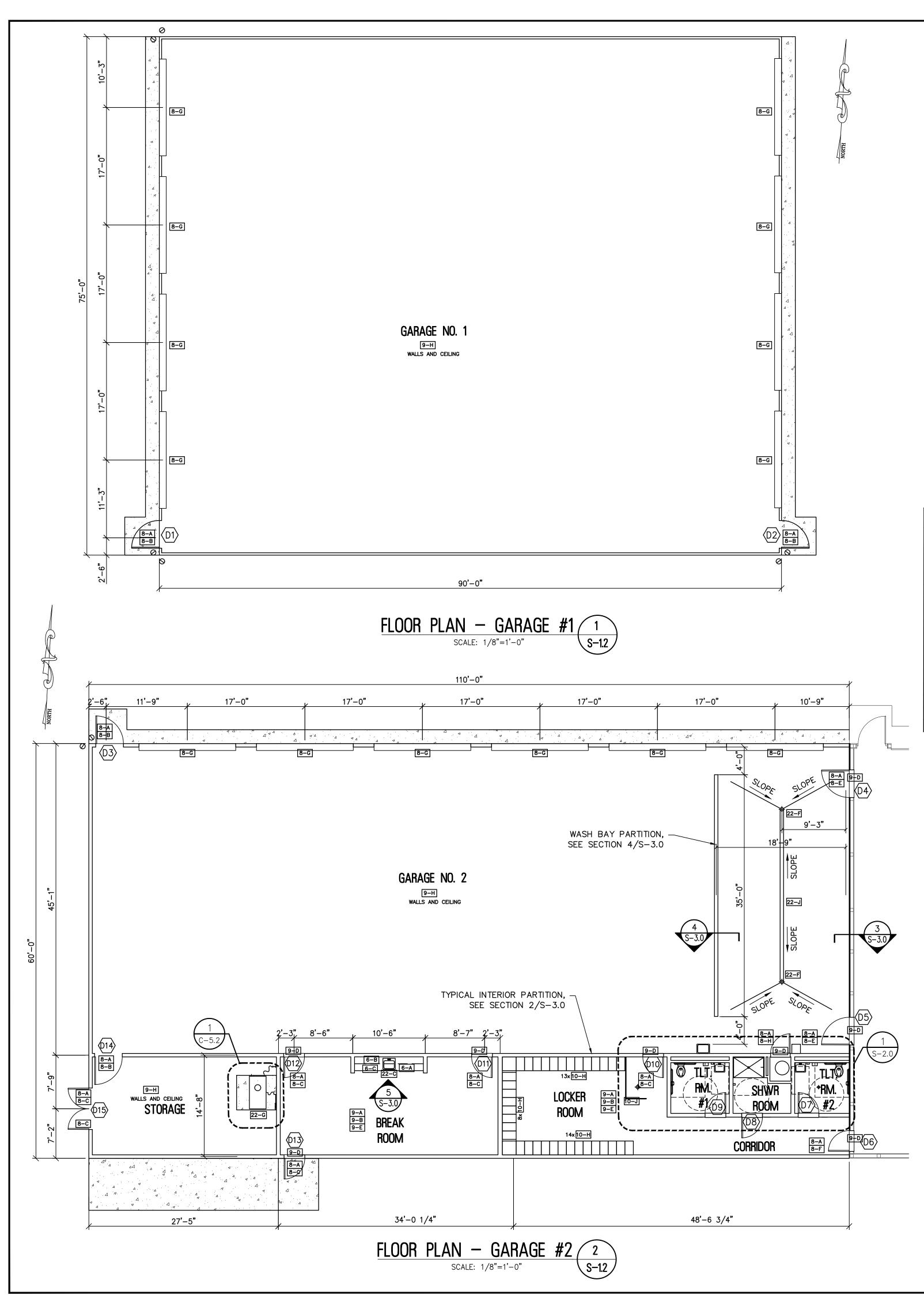




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JOB No. : 0809T126





# MATERIAL KEYNOTES

- 6 WOODS AND PLASTICS
- 6–A NEW BASE CABINETRY 6–B NEW WALL CABINETRY
- 6-C NEW SOLID SURFACE COUNTER TOP w/ 4" BACKSPLASH
- 8 DOORS AND WINDOWS
- 8-A HOLLOW METAL DOOR FRAME, PRIMED AND PAINTED, SIZED TO MATCH DOOR
- 8–B 48"x84"HOLLOW METAL DOOR AND HARDWARE
- 8-C 36"x84"HOLLOW METAL DOOR AND HARDWARE
- 8-D 36"x84" WOOD DOOR AND HARDWARE
- 8-E 48"x84" 90 MINUTE FIRE RATED HOLLOW METAL DOOR AND HARDWARE 8-F 36"x84" 90 MINUTE FIRE RATED HOLLOW METAL DOOR AND HARDWARE
- 8-G 14'x15' OVERHEAD GARAGE DOOR WITH ELECTRICAL OPENER 8-H 34"x84"HOLLOW METAL DOOR AND HARDWARE
- 9 FINISHES
- 9-A VCT FLOORING 9–B WALL BASE (ALL 4 WALLS, U.N.O.)
- 9-C MARBLE THRESHOLD
- 9-D ALUMINUM THRESHOLD
- 9-E PRIME & PAINT (ALL 4 WALLS, U.N.O.)
- 9-F 2'-0"x4'-0" ACOUSTICAL TILE CEILING AND GRID.
- 9-G POURED EPOXY FLOORING AND BASE
- 9-H WHITE LINER PANEL, BASIS OF DESIGN 0.039" PRO-TURF INTERIOR PVC LINER PANEL, OR APPROVED EQUAL
- 10 SPECIALTIES

- 10 SPECIALTIES 10-A 1 1/2"Ø METAL GRAB BARS 10-B UNDER COUNTER PIPE INSULATION 10-C WALL MOUNTED MIRROR 10-D TOILET PAPER DISPENSER (SUPPLIED BY OWNER) 10-E PAPER TOWEL DISPENSER (SUPPLIED BY OWNER)

- 10-E PAPER TOWEL DISPENSER (SUPPLIED BY OWNER) 10-F SOAP DISPENSER (SUPPLIED BY OWNER) 10-G UNISEX RESTROOM/SHOWER ROOM SIGNAGE 10-H 15" WIDE STEEL LOCKER WITH FULLY VENTED DOOR FRONTS 10-I WALL MOUNTED STAINLESS STEEL TOWEL HOOK 10-J WALL & FLOOR MOUNTED TOILET PARTITION SIGHT SCREEN

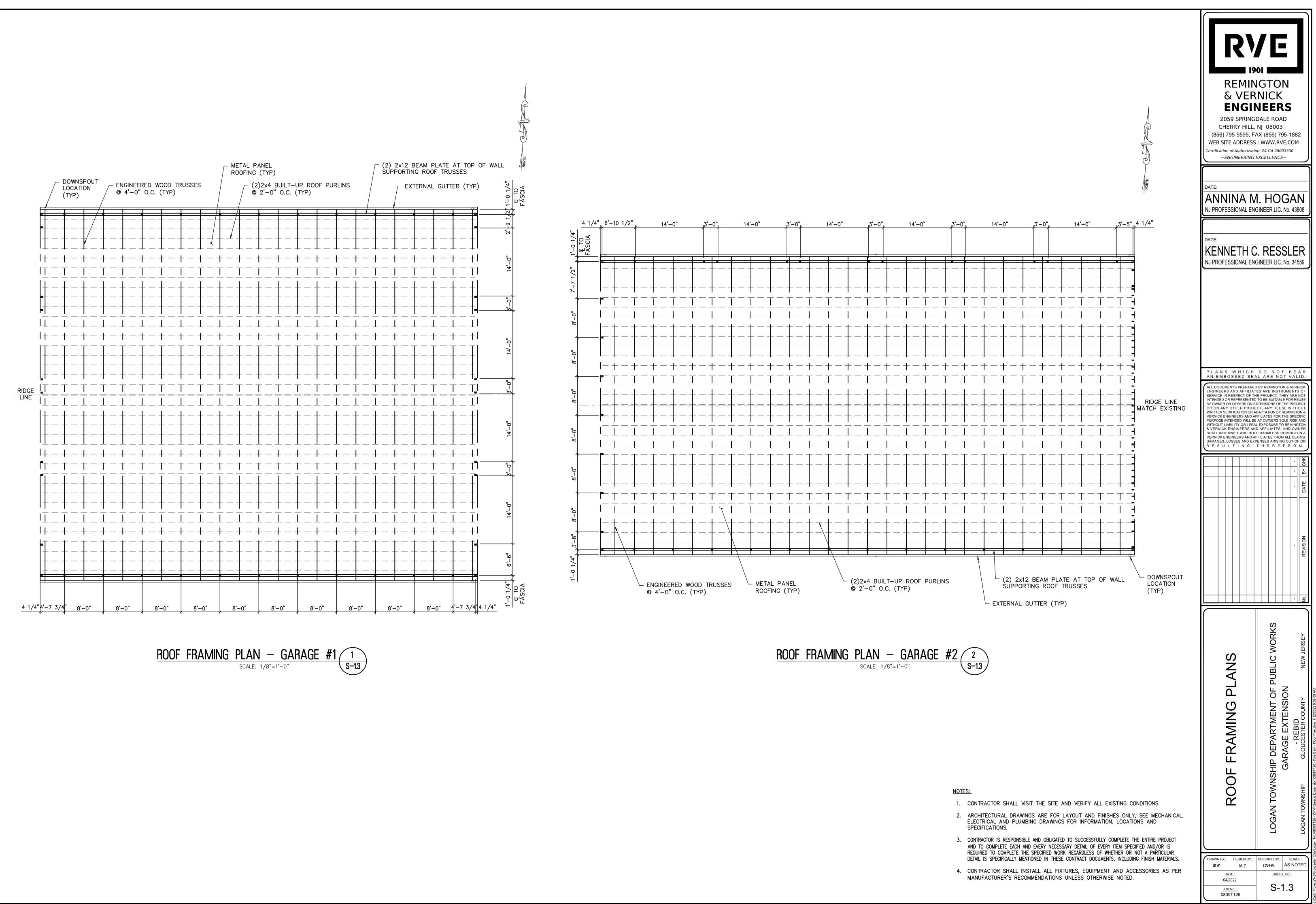
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DOOR NUMBER	FROM	то	DOOR MATERIAL	FRAME MATERIAL
D1	GARAGE NO. 1	EXTERIOR	НМ	НМ
D2	GARAGE NO. 1	EXTERIOR	НМ	НМ
D3	GARAGE NO. 2	EXTERIOR	НМ	НМ
D4	EXISTING GARAGE	GARAGE NO. 2/WASHBAY	НМ	НМ
D5	EXISTING GARAGE	GARAGE NO. 2/WASHBAY	НМ	НМ
D6	EXISTING GARAGE	GARAGE NO. 2/CORRIDOR	FRP	НМ
D7	CORRIDOR	GARAGAE NO. 2/TOILET ROOM #2	WD	НМ
D8	GARAGE NO .2/SHOWER ROOM	GARAGE NO. 2/CORRIDOR	WD	НМ
D9	GARAGE NO. 2/CORRIDOR	GARAGAE NO. 2/TOILET ROOM #1	WD	НМ
D10	GARAGE NO. 2	GARAGE NO.2/LOCKER ROOM	НМ	НМ
D11	GARAGE NO. 2	GARAGE NO. 2/BREAK ROOM	НМ	НМ
D12	GARAGE NO. 2	GARAGE NO.2/BREAK ROOM	НМ	НМ
D13	GARAGE NO. 2/BREAK ROOM	EXTERIOR	НМ	НМ
D14	GARAGE NO. 2	GARAGE NO. 2/STORAGE	НМ	НМ
D15	EXTERIOR	GARAGE NO. 2/STORAGE	НМ	НМ

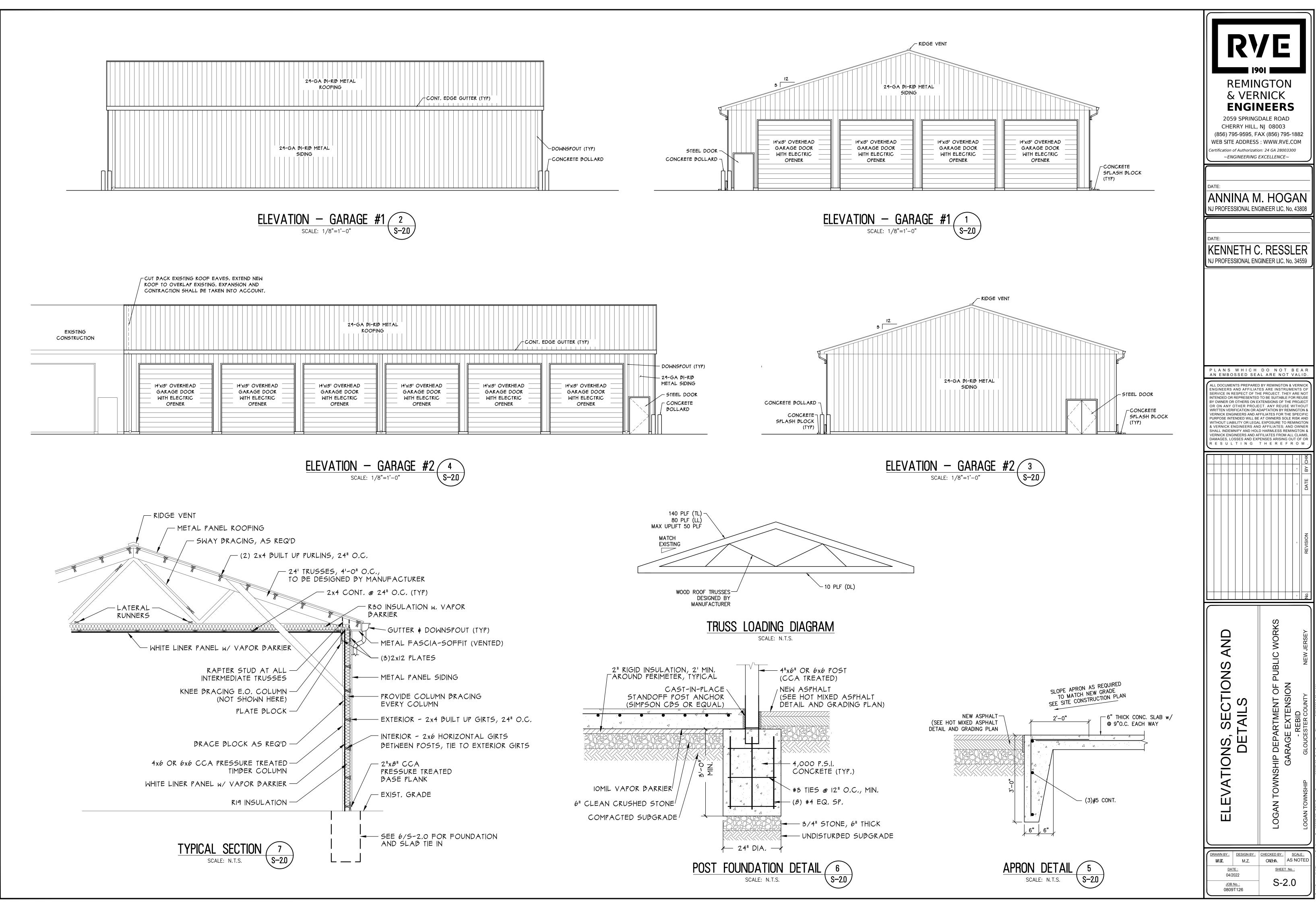
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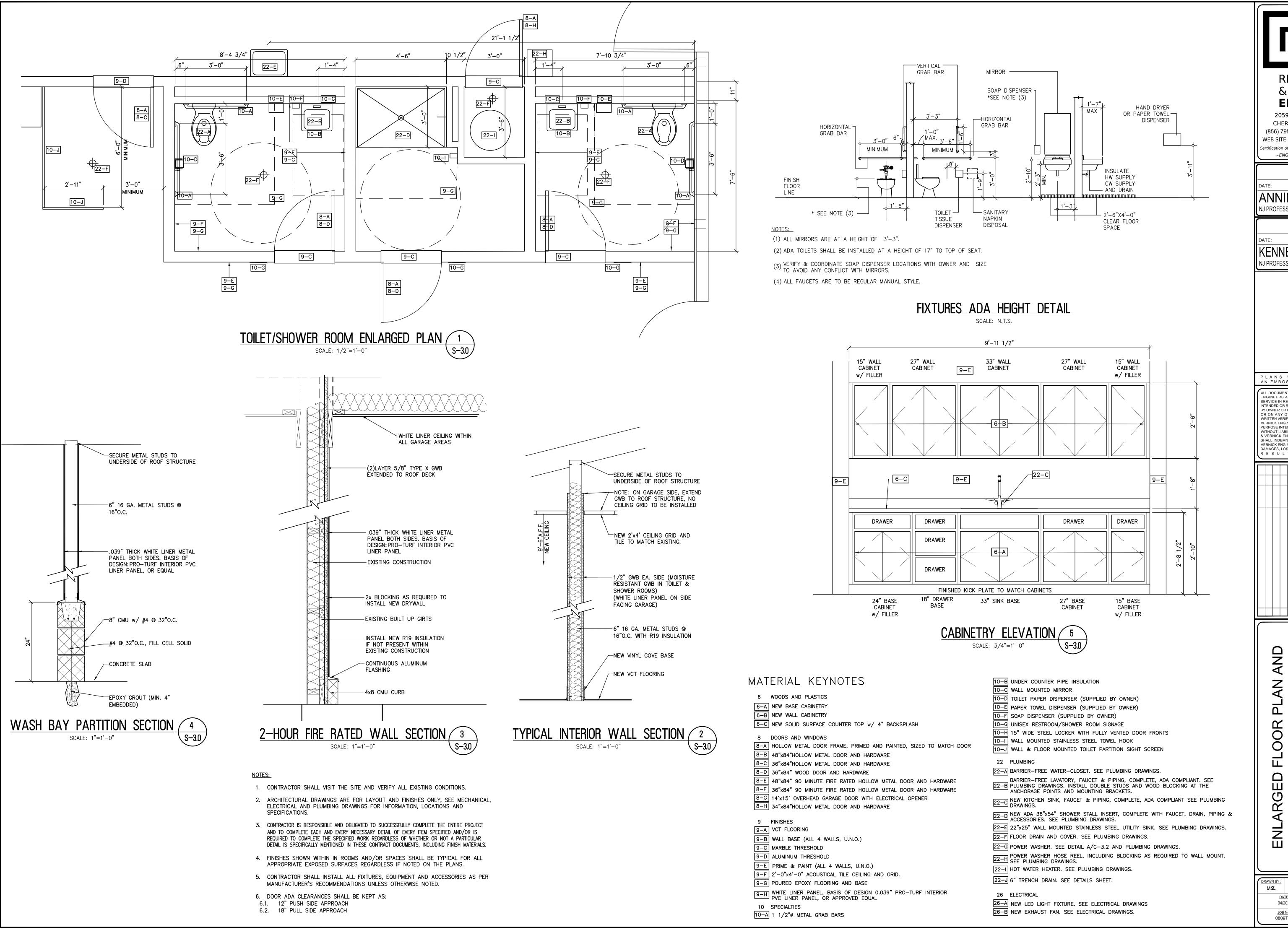
# REFLECTED CEILING PLA

SCALE: 1/8

22 PLUMBING					)
22-A BARRIER-FRE	EE WATER-CLOSET. SEE P				/E 🛛
22-B PLUMBING DE ANCHORAGE	RAWINGS. INSTALL DOUBLE POINTS AND MOUNTING BI				╯┖═╴╏║
		COMPLETE, ADA COMPLIANT SEE PLUMBING			
		ERT, COMPLETE WITH FAUCET, DRAIN, PIPING S.	&		IGTON
	L MOUNTED STAINLESS ST	EEL UTILITY SINK. SEE PLUMBING DRAWINGS. ING DRAWINGS.		& VER	
		AND PLUMBING DRAWINGS.		2059 SPRINGI	
	NG DRAWINGS.	G BLOCKING AS REQUIRED TO WALL MOUNT.		CHERRY HILL,	NJ 08003
	HEATER. SEE PLUMBING D DRAIN. SEE DETAILS SHEET			(856) 795-9595, FA WEB SITE ADDRESS	. ,
26 ELECTRICAL				Certification of Authorization	
	GHT FIXTURE. SEE ELECTR ST FAN. SEE ELECTRICAL I				
	ST TAN. SEE ELECTRICAL I			DATE:	
NOTES:				ANNINA M	I. HOGAN
		VERIFY ALL EXISTING CONDITIONS. OUT AND FINISHES ONLY, SEE MECHANICAL,		NJ PROFESSIONAL ENG	SINEER LIC. No. 43808
	D PLUMBING DRAWINGS FO	DR INFORMATION, LOCATIONS AND		[	
		SUCCESSFULLY COMPLETE THE ENTIRE PROJECT			
REQUIRED TO COM	IPLETE THE SPECIFIED WORK R	DETAIL OF EVERY ITEM SPECIFIED AND/OR IS EGARDLESS OF WHETHER OR NOT A PARTICULAR NTRACT DOCUMENTS, INCLUDING FINISH MATERIALS.		KENNETH C	
		OR SPACES SHALL BE TYPICAL FOR ALL RDLESS IF NOTED ON THE FLOOR PLANS.			
	HALL INSTALL ALL FIXTUR S'S RECOMMENDATIONS UN	ES, EQUIPMENT AND ACCESSORIES AS PER LESS OTHERWISE NOTED.			
6. DOOR ADA CLE 6.1. 12" PUSH S	ARANCES SHALL BE KEPT	AS:			
6.2. 18" PULL S					
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DOOR SIZE	LOCKSET TYPE	REMARKS		PLANS WHICH AN EMBOSSED SEA	
4'-0"x7'-0"	ENTRANCE			ALL DOCUMENTS PREPARED ENGINEERS AND AFFILIAT	BY REMINGTON & VERNICK
4'-0"x7'-0" 4'-0"x7'-0"	ENTRANCE			SERVICE IN RESPECT OF TH INTENDED OR REPRESENTED BY OWNER OR OTHERS ON EX	IE PROJECT. THEY ARE NOT TO BE SUITABLE FOR REUSE XTENSIONS OF THE PROJECT
4'-0"x7'-0" 4'-0"x7'-0"	PASSAGE PASSAGE			OR ON ANY OTHER PROJE WRITTEN VERIFICATION OR AI VERNICK ENGINEERS AND AF PURPOSE INTENDED WILL BE	DAPTATION BY REMINGTON & FILIATES FOR THE SPECIFIC
3'-0"x7'-0"	PASSAGE			WITHOUT LIABILITY OR LEGAL & VERNICK ENGINEERS AND SHALL INDEMNIFY AND HOLI	L EXPOSURE TO REMINGTON D AFFILIATES; AND OWNER
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AN – GARAGE	#2 3			DRAWN BY: M.S. DESIGN BY: M.Z.	CHECKED BY : SCALE : CAELA. AS NOTED
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	$\rightarrow$			<u>JOB No. :</u> 0809T126	S-1.2







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		ENERAL NOTES	17.
	(A	LL GENERAL NOTES, SYMBOLS & ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT)	17.
	1.	EXAMINE JOB SITE AND VERIFY ALL SITE CONDITIONS PRIOR TO SIGNING CONTRACT. BRING ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER.	
	2.	THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES UNLESS OTHERWISE INDICATED.	
	3.	THE DRAWINGS ARE DIAGRAMMATIC. COORDINATE IN THE FIELD, WITH THE ARCHITECT AND WITH ALL TRADES, THE EXACT LOCATION OF EQUIPMENT, FIXTURES, VALVES, THERMOSTATS, ETC. AND ROUTING OF PIPING, DUCTWORK, CONDUIT, ETC.	
	4.	PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE THEREWITH.	
	5.	OBTAIN ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS. PAY ALL ASSOCIATED FEES.	
	6.	GUARANTEE ALL SYSTEMS AND WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. GUARANTEE REFRIGERATION COMPRESSORS FOR FIVE (5) YEARS.	
	7.	BEFORE STARTING FABRICATION/ WORK SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL SIX (6) COMPLETE SETS OF SHOP DRAWINGS AND PRODUCT DATA FROM MANUFACTURERS, SUPPLIERS, ETC.	
	8.	ALL MATERIALS SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR THE UNDERWRITER'S LABEL WHERE APPLICABLE.	
	9.	LOCATE ALL EXISTING UTILITIES AND MAKE SERVICEABLE CONNECTIONS TO SAME.	
	10.	OBTAIN APPROVAL FROM THE BUILDING OWNER'S REPRESENTATIVE PRIOR TO ANY INTERRUPTION OF BUILDING SYSTEMS. COORDINATE ACCEPTABLE WORKING HOURS WITH SAME.	
	11.	REMOVE ALL ABANDONED EQUIPMENT, FIXTURES, DUCTWORK, PIPING, CONDUIT, ETC. CAP ALL PIPING ABANDONED IN	

WALLS. 12. ALL CUTTING AND PATCHING IS BY RESPECTIVE CONTRACTORS. CORE DRILL OR SAW CUT ALL MASONRY AND RESTORE ALL SURFACES TO ORIGINAL CONDITION. PAINTING AND FINISHING ARE BY THE GENERAL CONTRACTOR. 13. PIPING AND SPECIALTIES

- a. ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS. b. PROVIDE SLEEVES FOR PIPING THROUGH MASONRY, FIRE RATED WALLS AND SMOKE PARTITIONS. SLEEVES SHALL BE 22 GAUGE OR HEAVIER STEEL, SCHEDULE 40 IN BEARING WALLS. SIZE SLEEVES TO ACCOMMODATE PIPE INSULATION WHERE APPLICABLE. PROVIDE UL LISTINGS FOR SLEEVE PACKING.
- C. PROVIDE PIPE HANGERS TO SUPPORT PIPING FROM BUILDING STRUCTURE TO MAINTAIN REQUIRED SLOPE, PROVIDE FOR EXPANSION AND CONTRACTION, ISOLATE VIBRATION AND RELIEVE EQUIPMENT AND SPECIALTIES FROM STRAIN. SPACE HANGERS ACCORDING TO APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
- d. IDENTIFY ALL PIPING WITH SEMIRIGID OR ADHESIVE PLASTIC INDICATION MARKERS, EXCEPT WITHIN INACCESSIBLE CHASES. MARKERS SHALL SHOW DIRECTION OF FLOW. MARKERS SHALL BE LOCATED NEXT TO EACH VALVE, AT EACH BRANCH, ON BOTH SIDES OF PIPE PASSAGE THROUGH WALLS AND ON ALL HORIZONTAL PIPING AT 20' MAXIMUM INTERVALS.
- e. ROUTE ALL PIPING CONCEALED IN WALLS, ABOVE CEILING AND BELOW FLOOR UNLESS OTHERWISE NOTED. RUN PARALLEL WITH BUILDING LINES.
- f. PROVIDE DRAIN VALVES & PLUGS AT ALL LOW POINTS SUCH THAT PIPING SYSTEMS CAN BE DRAINED. PROVIDE MANUAL AIR VENT VALVES AT ALL HIGH POINTS IN THE SYSTEM. q. PROVIDE BACKFLOW PREVENTION DEVICES AT ALL EQUIPMENT AS REQUIRED BY CODE. UNLESS STATED OTHERWISE
- PROVIDE CHECK VALVE AND SHUT-OFF VALVE BOTH RATED FOR 250'F DOWN STREAM OF BACKFLOW PREVENTER ON MAKE UP WATER LINE FOR HYDRONIC HEATING HOT WATER SYSTEMS. h. PROVIDE DIELECTRIC UNIONS AT ALL JUNCTIONS OF DISSIMILAR METALS.
- i. ALL SHUTOFF VALVES, CONTROL VALVES, ETC. ARE FULL LINE SIZE UNLESS OTHERWISE NOTED.
- j. INSTALL PIPING ON WARM SIDE OF BUILDING INSULATION. DO NOT INSTALL PIPING WHERE SUBJECT TO FREEZING. k. ALL PIPING INSULATION SHALL BE CONTINUOUS THROUGH WALLS AND CEILING OPENINGS, SLEEVES AND PIPE HANGERS.
- I. TEST ALL PIPING IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND INSPECTOR'S REQUIREMENTS PRIOR TO INSULATION OR ENCLOSING.
- m. BALANCE ALL HYDRONIC DEVICES FOR FLOW RATES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
- n. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) ONE AND A HALF (1-1/2") INCH THICK LAYER OF PREFORMED MINERAL FIBER PIPE INSULATION WITH PREFORMED MINERAL FIBER FITTINGS ON ALL DOMESTIC HOT AND COLD WATER PIPING, HYDRONIC HEATING AND CHILLED WATER SUPPLY AND RETURN PIPING, REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING. INCLUDE A FIELD APPLIED FOIL AND PVC JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
- UNLESS STATED OTHERWISE ALL UNDERGROUND PIPING SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT (PE) FOR CORROSION RESISTANCE. p. UNLESS STATED OTHERWISE ALL FUEL GAS VENT PIPING TO BE SA-53GrB CARBON STEEL. ALL VENT PIPING TO BE
- PRIMED AND FINISH PAINTED IN A COLOR ACCEPTABLE TO THE OWNER. 14. DUCTWORK AND SPECIALTIES
- a. ALL DUCTWORK TO BE IN ACCORDANCE WITH S.M.A.C.N.A. "H.V.A.C. DUCT CONSTRUCTION STANDARDS", LATEST EDITION. PRESSURE CLASS "B".
- b. ALL DUCTWORK TO BE CONSTRUCTED OF GALVANIZED SHEETMETAL.
- c. PROVIDE 45 DEGREE COLLARS TO ALL BRANCH CONNECTIONS. PROVIDE TURNING VANES AT ALL ELBOWS 12"x6" OR LARGER. PROVIDE STANDARD RADIUS ELBOWS AT ALL ELBOWS SMALLER THAN 12"x6". d. PROVIDE ALL VOLUME DAMPERS REQUIRED TO BALANCE THE SYSTEMS. INSTALL VOLUME DAMPERS AT BRANCH
- TAKE-OFFS FROM TRUNK.
- e. PROVIDE CURTAIN TYPE FIRE DAMPERS WHEREVER DUCT PENETRATES FIRE RATED PARTITIONS. UNITS SHALL PROVIDE NOT LESS THAN 90% FREE AREA. PROVIDE ACCESS DOORS AT ALL FIRE DAMPERS.
- f. TEST DUCT SYSTEMS FOR AIR TIGHTNESS AND ABSENCE OF AUDIBLE LEAKS BEFORE ENCLOSURE.
- g. BALANCE ALL AIR DEVICES FOR AIR QUANTITIES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO
- ARCHITECT/ENGINEER. h. FLEXIBLE DUCTS: ALL FLEXIBLE DUCTS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE.
- i. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
- I. PROVIDE FIRE DAMPERS IN THE DUCTWORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND THE CONTRACT DOCUMENTS.
- k. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO AND ONE HALF (2-1/2") INCH THICK LAYER OF MINERAL FIBER BLANKET INSULATION ON ALL NEW INDOOR ROUND AND RECTANGULAR SUPPLY AIR, EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A FIELD APPLIED PAPER AND FOIL JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
- I. UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO (2") INCH THICK LAYER OF MINERAL FIBER BOARD INSULATION ON ALL NEW OUTDOOR ROUND AND RECTANGULAR SUPPLY AIR, EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A WEATHERPROOF FIELD APPLIED 22 GAUGE ALUMINUM JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY. COORDINATE FINISH COLOR OF EXTERIOR JACKET WITH THE OWNER.
- m. UNLESS OTHERWISE NOTED ALL EXPOSED SUPPLY, RETURN AND EXHAUST AIR DUCTWORK SHALL BE PRIMED AND PAINTED. COLOR TO BE DETERMINED BY THE ENGINEER/ OWNER.
- 15. EQUIPMENT
- a. VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
- b. ALL MECHANICAL EQUIPMENT AND APPLIANCE INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE, AS WELL AS WITH MANUFACTURER'S RECOMMENDATIONS,
- c. ALL ELECTRICAL POWER WIRING IS BY ELECTRICAL CONTRACTOR. ALL CONTROL WIRING IS BY RESPECTIVE CONTRACTOR.
- d. PROVIDE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR INSTALLED EQUIPMENT. INCLUDE CONTRACTOR'S, SUPPLIER'S AND MANUFACTURER'S NAMES, ADDRESS AND TELEPHONE NUMBERS.
- e. SUPPLY STARTERS AND DISCONNECTS WITH EQUIPMENT. f. PROVIDE CONCRETE PADS FOR FLOOR MOUNTED EQUIPMENT. PADS SHALL BE A MINIMUM 4" HIGH AND SHALL EXTEND 6" BEYOND EQUIPMENT ON ALL SIDES.
- g. LABELING: ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BEAR LABELING IN COMPLIANCE WITH THE LATEST VERSION OF THE INTERNATIONAL MECHANICAL CODE.
- h. UNLESS NOTED OTHERWISE, ALL HYDRONIC SYSTEMS BOILER/ CHILLED WATER SHALL BE PROVIDED WITH A NEW BLADDER TYPE EXPANSION TANK AS REQUIRED. TANK TO BE SIZED FOR EACH SYSTEM BASED UPON TANK MANUFACTURER'S RECOMMENDATIONS.
- I. UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL PROPYLENE GLYCOL ANTI FREEZE FOR ALL HYDRONIC HEATING AND COOLING SYSTEMS. THE CONTRACTOR SHALL SUPPLY A 35% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR CHILLED WATER COOLING SYSTEMS AND A 25% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR HOT WATER HEATING SYSTEMS. PROPYLENE GLYCOL ANTI FREEZE SHALL BE COMPATIBLE WITH ALL MATERIALS OF THE HYDRONIC SYSTEM (PIPING, VALVES, PUMPS, CHILLER, BOILER, ETC.) AS WELL AS ALL TERMINAL EQUIPMENT. 16. AUTOMATIC TEMPERATURE AND SAFETY CONTROLS
- a. PROVIDE ALL WIRING, RELAYS, CONTACTS, TRANSFORMERS, ETC. REQUIRED TO DELIVER A COMPLETE OPERABLE SYSTEM.
- b. THERMOSTATS SHALL BE 24 HOUR/7 DAY PROGRAMMABLE WITH FAN "OFF/ON/AUTO" AND SYSTEM "HEAT/COOL/AUTO/OFF" SWITCHES. VERIFY OPERATION OF ALL FUNCTIONS.

FIRE PROTECTION

- JURISDICTION.
- BY ELECTRICAL CONTRACTOR.
- ALSO BE INCLUDED IN THIS WORK.

ACCESS DOOR

ABOVE FINISHED F

ADJACENT

AD

ADJ.

AFF

AHU

BFF

BFP

BOD BOL

CD

CEG

CER CFH

CFM

CO

COG

COND

CONT

CRG

CRR

CSV

CTR

CTS

CUH

CWS

DF

DFU

DN

EA

EBBH

FF

EWC

EWH

ΕX

FC FCO

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HWG HWH

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LAV

LBG

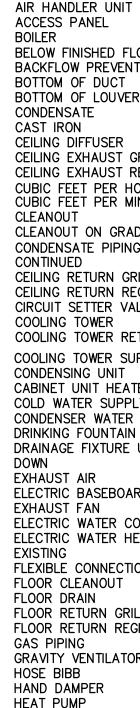
LD

LF

G

CWS/R

CU



HOT WATER HANDICAPPED WATE HOT WATER GENERA HOT WATER HEATER HOT WATER RETURN HOT WATER SUPPLY HEAT EXCHANGER LOUVER LAVATORY

LINEAR BAR GRILLI LINEAR DIFFUSER LINEAR FEET

a. THE QUANTITY AND LOCATION OF SPRINKLERS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND INTENDED FOR SCHEMATIC PURPOSES ONLY. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING. INSTALLING AND COMMISSIONING ALL NECESSARY SPRINKLERS, PIPE, EQUIPMENT AND APPURTENANCES NECESSARY, IN FULL ACCORDANCE WITH THE NFPA AND APPROVED BY THE ENGINEER AND ALL AUTHORITIES HAVING

b. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE DETAILED DESIGN DRAWINGS, HYDRAULIC CALCULATIONS, PIPING, FITTINGS, SPRINKLERS, ALARM AND MONITORING DEVICES, SIGNAGE AND APPURTENANCES COMPLETE AND IN FULL ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND NFPA 13 & 14. ALL WIRING OF DEVICES SHALL BE DONE

c. ALL SPRINKLER HEADS SHALL BE LOCATED AT THE CENTER POINT OF ALL ACOUSTICAL CEILING TILES. 18. ALL EXISTING PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE EITHER EXPOSED OR CONCEALED AND THAT INTERFERE WITH ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS SHALL BE REMOVED, RELOCATED, REROUTED, OR ABANDONED. DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE AFFECTED. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES. SPECIALTIES AND OTHER MINOR ITEMS; HOWEVER, THEIR REMOVAL, RELOCATION, REROUTING AND ABANDONMENT SHALL

19. EXISTING CONCEALED PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE TO REMAIN BUT BECOME EXPOSED DUE TO RENOVATION WORK, SHALL BE RELOCATED AND RECONNECTED AS PART OF THIS WORK. 20. PLUMBING DRAWINGS ARE DIAGRAMMATIC. ALL DEVICES & FITTINGS MAY NOT BE SHOWN ON THE DRAWINGS FOR CLARITY. PROVIDE CLEANOUTS NEAR THE BASE OF ALL VERTICAL WASTE & STORM WATER STACKS IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL STANDARD PLUMBING CODE.

21. GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH OPENINGS ARE LOCATED WITHIN 12 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THEN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL EXTEND NOT LESS THEN 30 INCHES BEYOND EACH END OF SUCH APPLIANCES, EQUIPMENT, FANS, COMPONENTS AND ROOF HATCH OPENINGS AND THE TOP OF THE GUARD SHALL BE LOCATED NOT LESS THEN 42 INCHES ABOVE THE ELEVATED SURFACE ADJACENT TO THE GUARD. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH-DIAMETER SPHERE AND SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.

22. PROVIDE FOR ALL MECHANICAL EQUIPMENT - FAN AND MOTOR PULLEYS, SHEAVES, BELTS AND LABOR REQUIRED TO BALANCE THE NEW AND EXISTING MECHANICAL EQUIPMENT TO THE SPECIFIED SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR FLOWS SHOWN ON THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER. THE TESTING. ADJUSTING AND BALANCING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED PULLEYS, SHEAVES AND BELTS EVEN IF THEY ARE NOT PROVIDED WITH THE EQUIPMENT BY THE MANUFACTURER.

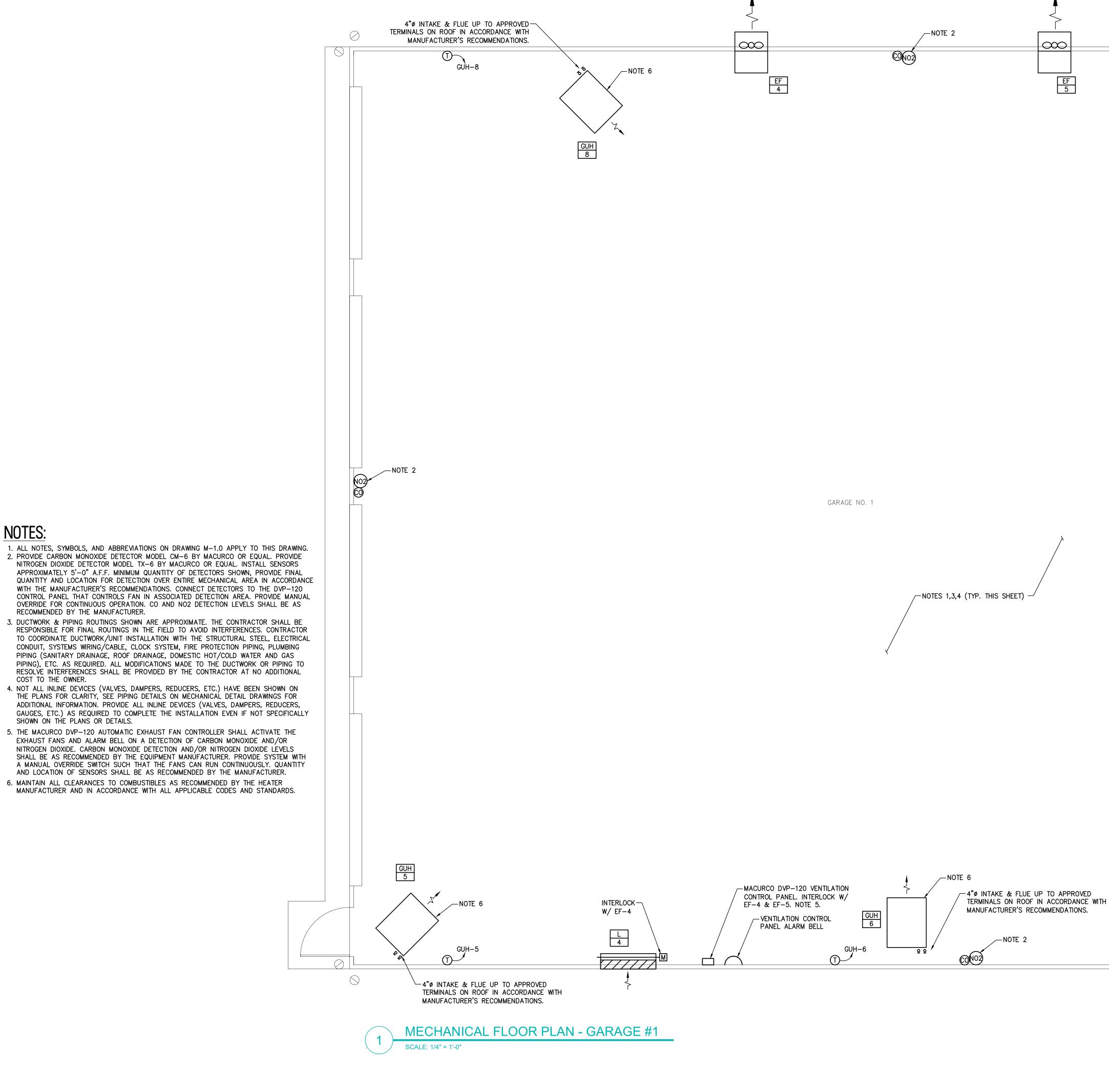
23. UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL CONNECTION / TRANSITION DUCTS BETWEEN NEW HVAC EQUIPMENT (UNIT VENTILATORS, BLOWER COILS, FAN COILS, AIR HANDLERS, ETC.) AND NEW OR EXISTING OUTSIDE AIR LOUVERS. CONTRACTOR IS ALSO RESPONSIBLE FOR REINFORCING ANY OUTSIDE AIR LOUVER OPENING THAT IS CREATED OR ENLARGED TO ACCOMMODATE THE NEW INSTALLATION.

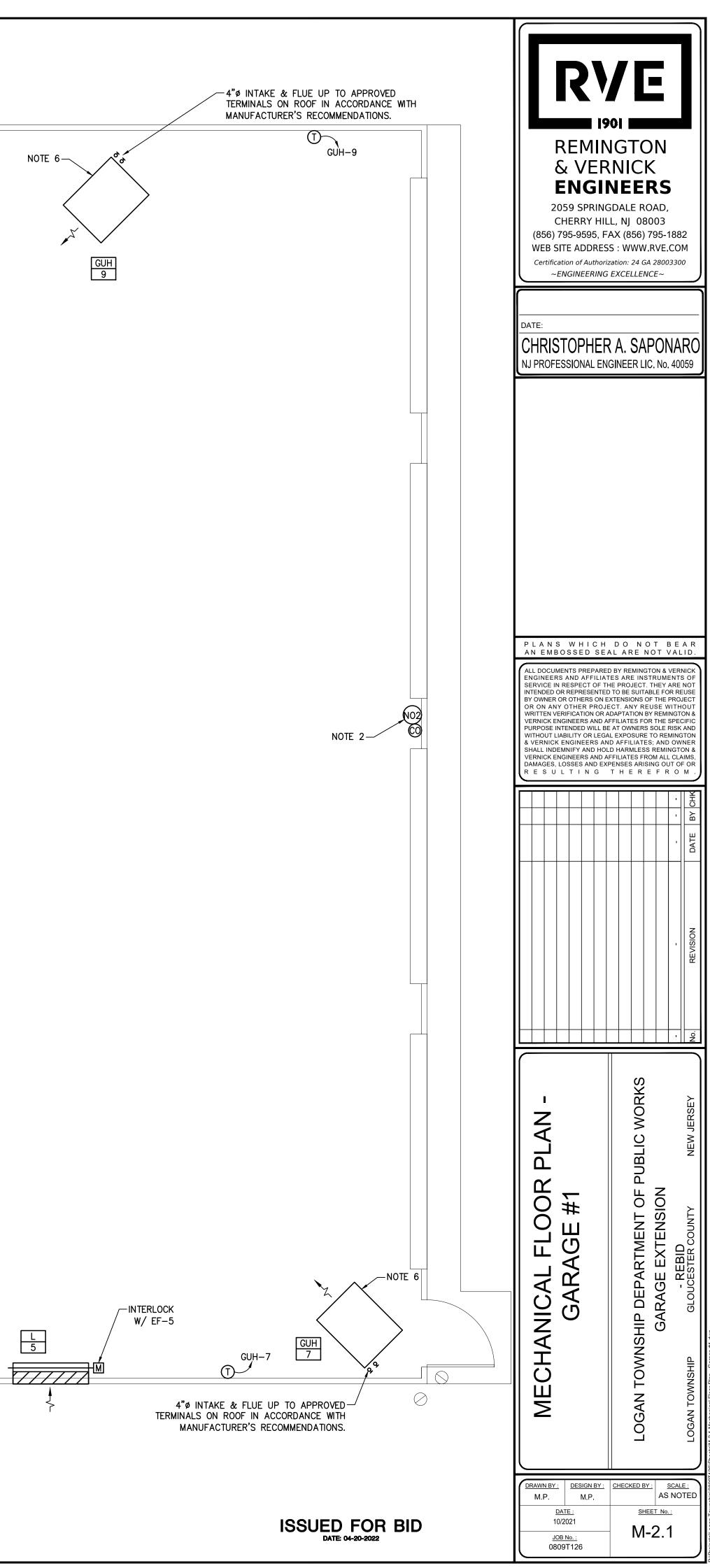
# MECHANICAL ABBREVIATIONS

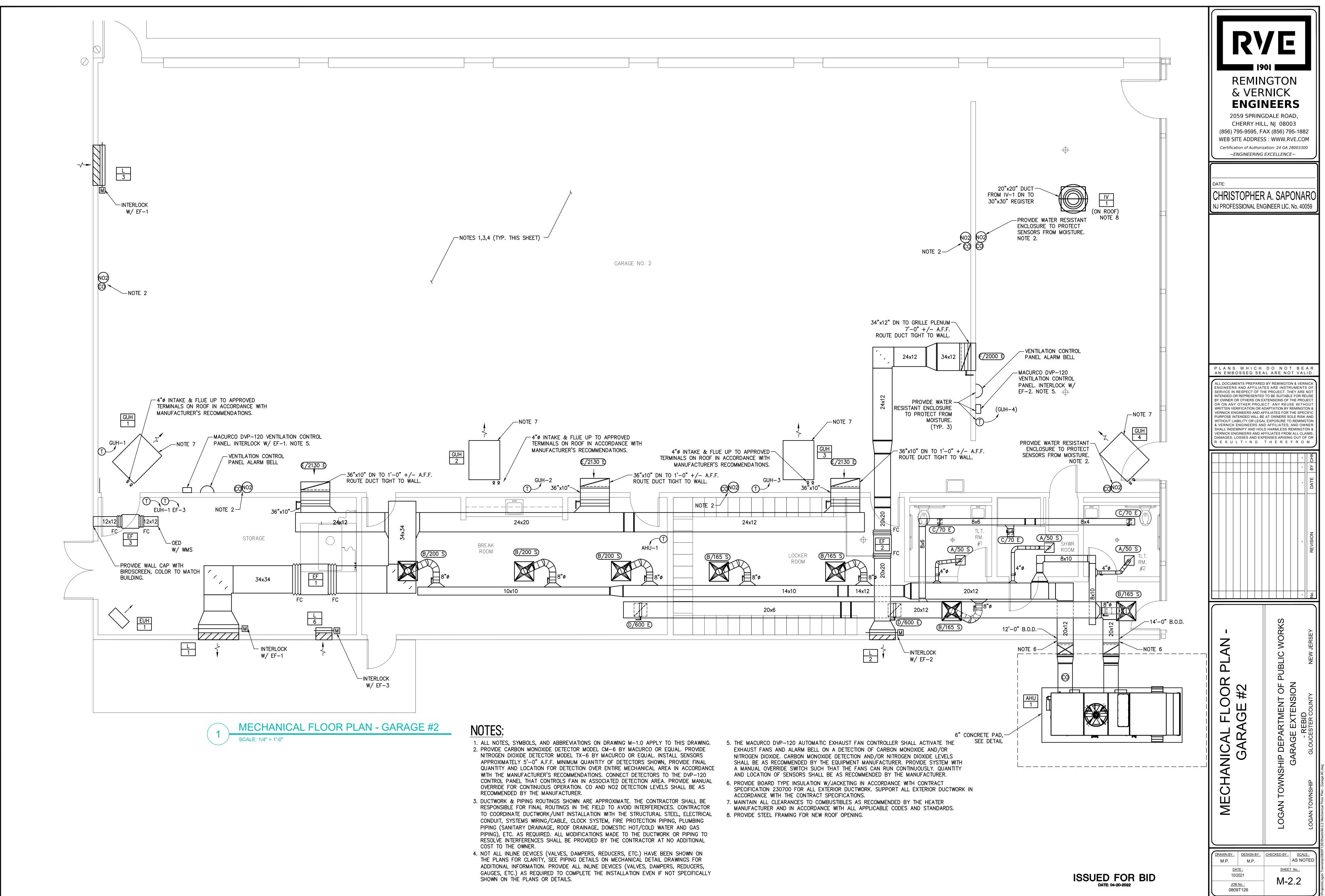
	LRG	LINEAR RETURN GRILLE
	LSR	LINEAR SUPPLY REGISTER
_OOR	MD	MOTORIZED DAMPER
	MH	MANHOLE
	MSB	MOP SERVICE BASIN
	MUA	MAKE-UP AIR UNIT
_OOR	MV	MIXING VALVE (THERMOSTATIC)
TOR	NC	NORMALLY CLOSED
TOIN	NO	NORMALLY OPEN
R	NTS	NOT TO SCALE
	OA	OUTSIDE AIR
	P	PUMP
	RA	RETURN AIR
GRILLE	RD	ROOF DRAIN
REGISTER	RH	RADIANT HEATER
OUR	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
INUTE	RWC	RAIN WATER CONDUCTOR
	S	SINK/SANITARY PIPING
DE	S=02'	SLOPE
G	SA	SUPPLY AIR
0	SD	SPLITTER DAMPER
RILLE	SH	SHOWER
EGISTER	SP	SPRINKLER PIPING
ALVE	SS	SOIL STACK
	ST	STORM PIPING
ETURN	STM	STEAM PIPING
JPPLY	SV	STACK VENT
	SW	SAFEWASTE
TER	Т	TUB
LY	TAG	TRANSFER AIR GRILLE
SUPPLY/RETURN	TOD	TOP OF DUCT
1	TP	TRAP PRIMER
UNITS	TR	TRANSITION
	TWR	TEMPERED WATER RETURN
	TWS	TEMPERED WATER SUPPLY
RD HEATER	TYP	TYPICAL
	UH	UNIT HEATER
OOLER	UR	URINAL
EATER	V	VENT PIPING
	VAV	VARIABLE AIR VOLUME
ON/FAN COIL	VD	VOLUME DAMPER
	VIF	VERIFY IN FIELD
	VS	VENT STACK
LLE	VTR	VENT THRU ROOF
GISTER	WC	WATER CLOSET
	WCO	WALL CLEANOUT
R	WEG	WALL EXHAUST GRILLE
	WER	WALL EXHAUST REGISTER
	WHA	WATER HAMMER ARRESTOR
	WHY	WALL HYDRANT
	WMS	WIREMESH SCREEN
ER CLOSET	WRG	WALL RETURN GRILLE
ATOR	WRR	WALL RETURN REGISTER
R	WSFU	WALL SUPPLY FIXTURE UNIT
N	WSG	WALL SUPPLY GRILLE
Y	WSR	WALL SUPPLY REGISTER

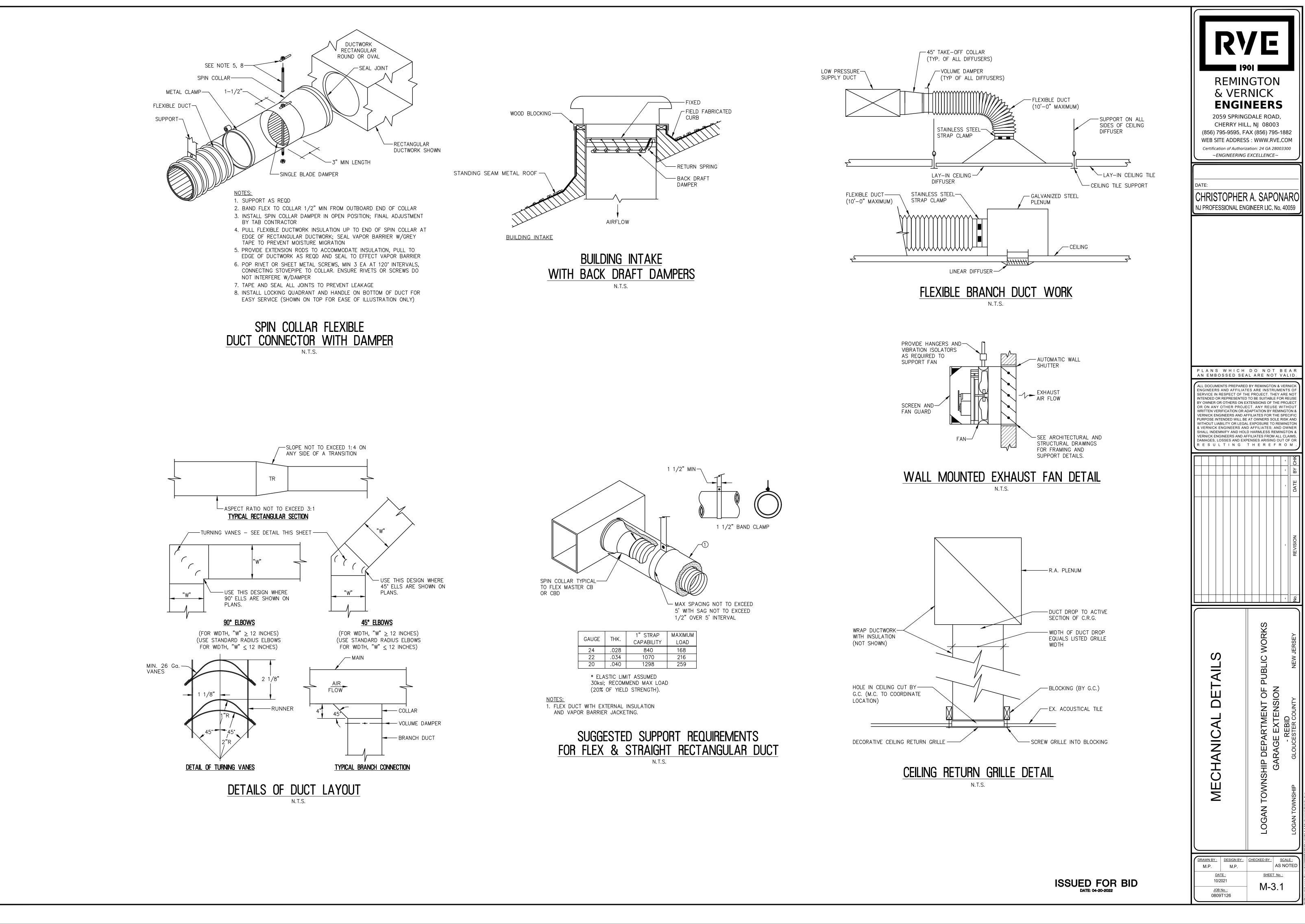
F	

	OSED MECHANICAL SYMBOLS		BUTTERFLY VALVE	-1	ANGLE GLOBE VALVE		/ =
FC 1	EQUIPMENT MARK (TYPE FC, NUMBER 1)		GATE VALVE	⊣∆⊢	PLUG VALVE		
B2	SECTION INDICATOR	(B	EMERGENCY BOILER SHUTOFF	本	OS & Y GATE VALVE		
	(SECTION B2 ON DWG. – –)	<u>S</u> -		-	2-WAY CONTROL VALVE	REMIN	
(B2) 	DETAIL INDICATOR (DETAIL B2 ON DWG. – –)	- ♦	SOUND ATTENUATOR PRESSURE/TEMPERATURE TEST PLUG		3-WAY CONTROL VALVE		
2	KEY NOTE INDICATOR (REFERS TO NOTES ON SAME SHEET)	 	PRESSURE GAUGE	<u><sup>*</sup></u> <u>*</u> TP	PRESSURE RELIEF VALVE TEMPERATURE & PRESSURE	2059 SPRING	NEERS DALE ROAD,
$\Delta$	REVISIONS INDICATOR		GAUGECOCK	<u></u> P 	RELIEF VALVE CALIBRATED BALANCE VALVE	CHERRY HILL (856) 795-9595, FA	L, NJ 08003
HWS-1	PIPE RISER (RISER HWS–11 ON DWG. – –)	<u> </u>	THERMOMETER	-X-	AUTOMATIC FLOW CONTROL VALVE	WEB SITE ADDRESS	5 : WWW.RVE.COM
	DUCT RISER (RISER E-1 ON DWG)	ודדי	PRESSURE TEMPERATURE TAP	4	SWING CHECK VALVE	~ENGINEERING E	
(A/150 S)	DIFFUSER/REGISTER/GRILLE MARK (TYPE A, 150 CFM, DIREC	어ᅷ TION)	EXISTING HYDRONIC CONTROL VALVE	-75-1-	SPRING LOADED CHECK VALVE		
	DOOR UNDERCUT		HOSE BIBB DRAIN VALVE	12	ALARM CHECK VALVE		
<del>_⊺ ►</del>	TRANSFER AIR	A N	INSULATED PIPE VERTICAL VALVE		COMBINATION CHECK/BALANCE/ SHUT OFF VALVE	CHRISTOPHER NJ PROFESSIONAL ENG	
Φ	DIAMETER	M N	CIRCUIT SETTER		NEEDLE VALVE		
$\bullet$	CONNECTION TO EXISTING	_Ē−	FLOW METER (MAGNETIC)		PRESSURE REGULATOR BACK PRESSURE REGULATOR		
	POINT OF DISCONNECTION	–Ē <sub>V</sub>	FLOW METER (VENTURI)	-A-	DIAPHRAGM VALVE		
<u> </u>	FLAT OVAL DUCT DIMENSION INSIDE DUCT DIMENSION (IN INCHES, FIRST DIMENSION IS AS		BALL JOINT		SOLENOID VALVE		
<u>     16x10</u>	SOUND LINED DUCTWORK	SD	SUCTION DIFFUSER	<u> </u>	FLOW SWITCH		
ſ	SUPPLY DUCT TURNED UP		PIPE ANCHOR		PRESSURE SWITCH		
<u></u>	SUPPLY DUCT TURNED DOWN	 	PIPE GUIDE	*	VALVE MONITOR SWITCH		
	RETURN/EXHAUST DUCT TURNED UP		UNION VACUUM BREAKER	+ + +	STRAINER		
<u></u>	RETURN/EXHAUST DUCT TURNED DOWN		CAP AND VALVED		BLOW-OFF STRAINER		
	SQUARE ELBOW (WITH TURNING VANES)		CONCENTRIC REDUCER		DOMESTIC HOT WATER PIPE DOMESTIC HOT WATER RETURN		
	ROUND ELBOW	-54	ECCENTRIC REDUCER STRAIGHT INVERT		PIPE	PLANS WHICH	DO NOT REAP
	SPIN-IN WITH VOLUME DAMPER FOR ROUND DUCT		ECCENTRIC REDUCER STRAIGHT CROWN	SAN	SANITARY SEWER SANITARY SEWER BELOW	AN EMBOSSED SEA	L ARE NOT VALID.
	TAKE OFF WITH VOLUME DAMPER FOR RECTANGULAR DUCT OPEN END DUCT WITH WMS	—(M)—	METER (SEE CONNECTED PIPING FOR TYPE OF SERVICE)		GRADE OR SLAB STORM SEWER	ALL DOCUMENTS PREPARED ENGINEERS AND AFFILIATE SERVICE IN RESPECT OF THE INTENDED OR REPRESENTED	ES ARE INSTRUMENTS OF E PROJECT. THEY ARE NOT
	EXISTING DUCT WORK OR EQUIPMENT		CHAIN OPERATOR	ST	STODM SEWED DELOW ODADE	BY OWNER OR OTHERS ON EX OR ON ANY OTHER PROJEC WRITTEN VERIFICATION OR AD VERNICK ENGINEERS AND AFI	CT. ANY REUSE WITHOUT DAPTATION BY REMINGTON &
	DUCT WORK TO BE REMOVED & EXISTING DUCTWORK TO BE CAPPED		MOTOR OPERATOR	V	PLUMBING VENT	PURPOSE INTENDED WILL BE A WITHOUT LIABILITY OR LEGAL & VERNICK ENGINEERS AND	AT OWNERS SOLE RISK AND EXPOSURE TO REMINGTON AFFILIATES; AND OWNER
	EXISTING DUCTWORK TO BE RELOCATED		FLOAT	———D———	DRAIN PIPE	SHALL INDEMNIFY AND HOLD VERNICK ENGINEERS AND AFT DAMAGES, LOSSES AND EXP	FILIATES FROM ALL CLAIMS, ENSES ARISING OUT OF OR
~~~~	FLEXIBLE DUCTWORK (SINGLE LINE)	co ⊮ co <b>⊘</b>		——F——	FIRE PROTECTION PIPE	RESULTING T	
$\mathbf{D}\mathbf{D}\mathbf{D}\mathbf{D}\mathbf{D}$	FLEXIBLE DUCTWORK (DOUBLE LINE)		FLOOR DRAIN WITH P-TRAP		CHEMICAL FEED PIPE		전 전 ·
	SUPPLY DIFFUSER SUPPLY AIR DIFFUSER WITH 3 DIRECTION DISCHARGE	Ý	FUNNEL DRAIN		EXPANSION TANK PIPE		ATE
	(BLACK TRIANGLE INDICATED BLANK OFF)	—	TRAP		HEATING HOT WATER SUPPLY PIPE HEATING HOT WATER RETURN PIPE		
	RETURN/EXHAUST REGISTER OR GRILLE		DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER				
	SLOT DIFFUSER WITH PLENUMS EXHAUST FAN		WITH GATE VALVES - REDUCED PRESSURE ZONE BACKFLOW PREVENTER	— CHWR —	CHILLED WATER RETURN PIPE		
<u>⊮_</u> ⊧======	ELECTRIC BASEBOARD		WITH GATE VALVES REDUCED PRESSURE ZONE BACKFLOW PREVENTER		CONDENSER WATER SUPPLY PIPE		- NOISI
	VOLUME DAMPER (MANUAL)		WITH BALL VALVES		CONDENSER WATER RETURN PIPE		REV
——B	BACKDRAFT DAMPER	-@1\1\j-@-	DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER WITH BALL VALVES		CONDENSATE WATER PIPING		
$\longrightarrow$	FIRE DAMPER	+ HB	HOSE BIBB		COMPRESSED AIR PIPE		
——-M	MOTORIZED DAMPER	+ FPHE	B FROSTPROOF HOSE BIBB				
\$	MOTORIZED SMOKE/FIRE DAMPER	_ <u>₽</u> _	WATER HAMMER ARRESTOR		NATURAL GAS PIPING ACID WASTE PIPING		
	CARBON MONOXIDE SENSOR		PITCH PIPE DOWN IN DIRECTION OF ARROW		FUEL OIL PIPING		3KS
T H	THERMOSTAT	ტ ۲	TEE TURN UP		PIPING TO BE DEMOLISHED		WORKS
(f) (S)	SENSOR	;	TEE TURNED DOWN PIPE TURNED UP		REFRIGERANT SUCTION ROUTE		J
(37			PIPE TURNED DOWN	RL	REFRIGERANT LIQUID ROUTE		UB
-	DUCT DETECTOR	(	····		DOMESTIC COLD WATER PIPE		с Ц
ு இ –த	DUCT DETECTOR BALL VALVE	ς \$κ	KEY SWITCH				
		, ↓κ -□	KEY SWITCH BUSHING		BLIND FLANGE END CONNECTION		NT O NSIO
		_		 ↓	BLIND FLANGE END CONNECTION	AL CO	
			BUSHING	⊩			
			BUSHING FLEXIBLE PIPE CONNECTION		LOCK SHIELD GATE VALVE		
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD		LOCK SHIELD GATE VALVE		DEPARTM RAGE EXT GLOUCESTER C
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD		LOCK SHIELD GATE VALVE	CHANIC/ SHE	SHIP DEPARTM GARAGE EXT GLOUCESTER C
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD		LOCK SHIELD GATE VALVE	CHANIC/ SHE	NSHIP DEPARTM GARAGE EXT - REBID
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD		LOCK SHIELD GATE VALVE	HANIC/ SHE	NSHIP DEPARTM GARAGE EXT - REBID
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD		LOCK SHIELD GATE VALVE	CHANIC/ SHE	NSHIP DEPARTM GARAGE EXT GLOUCESTER C
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD		LOCK SHIELD GATE VALVE	CHANIC/ SHE	SHIP DEPARTM GARAGE EXT GLOUCESTER C
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD		LOCK SHIELD GATE VALVE	MECHANIC/ SHE	LOGAN TOWNSHIP DEPARTM GARAGE EXT CARAGE EXT - REBID LOGAN TOWNSHIP LOGAN TOWNSHIP
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD		LOCK SHIELD GATE VALVE	CHANIC/ SHE	CHECKED BARTM CARAGE EXT CARAGE EXT CARAGE EXT CARAGE EXT CARAGE EXT CLOGAN TOWNSHIP CLOGAN TOWNSHIP CLOGAN TOWNSHIP CLOCAN TOWNSHIP
			BUSHING FLEXIBLE PIPE CONNECTION MANUAL AIR VENT CONCEALED SPRINKLER HEAD PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD	上 校 大	LOCK SHIELD GATE VALVE	MECHANIC/ SHE SHE	LOGAN TOWNSHIP DEPARTM GARAGE EXT CARAGE EXT CARAGE EXT - REBID LOGAN TOWNSHIP CLOUCESTER C



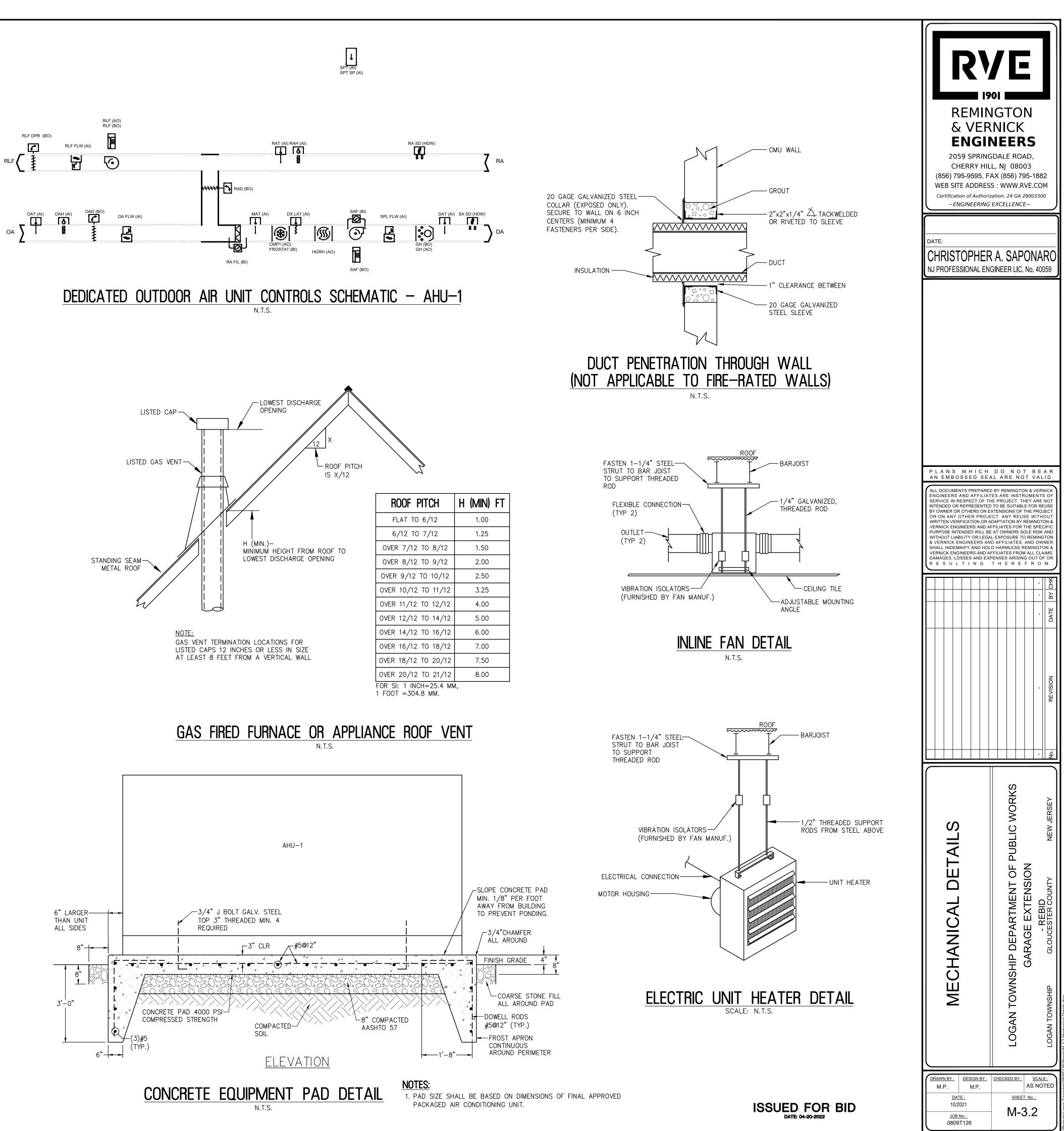


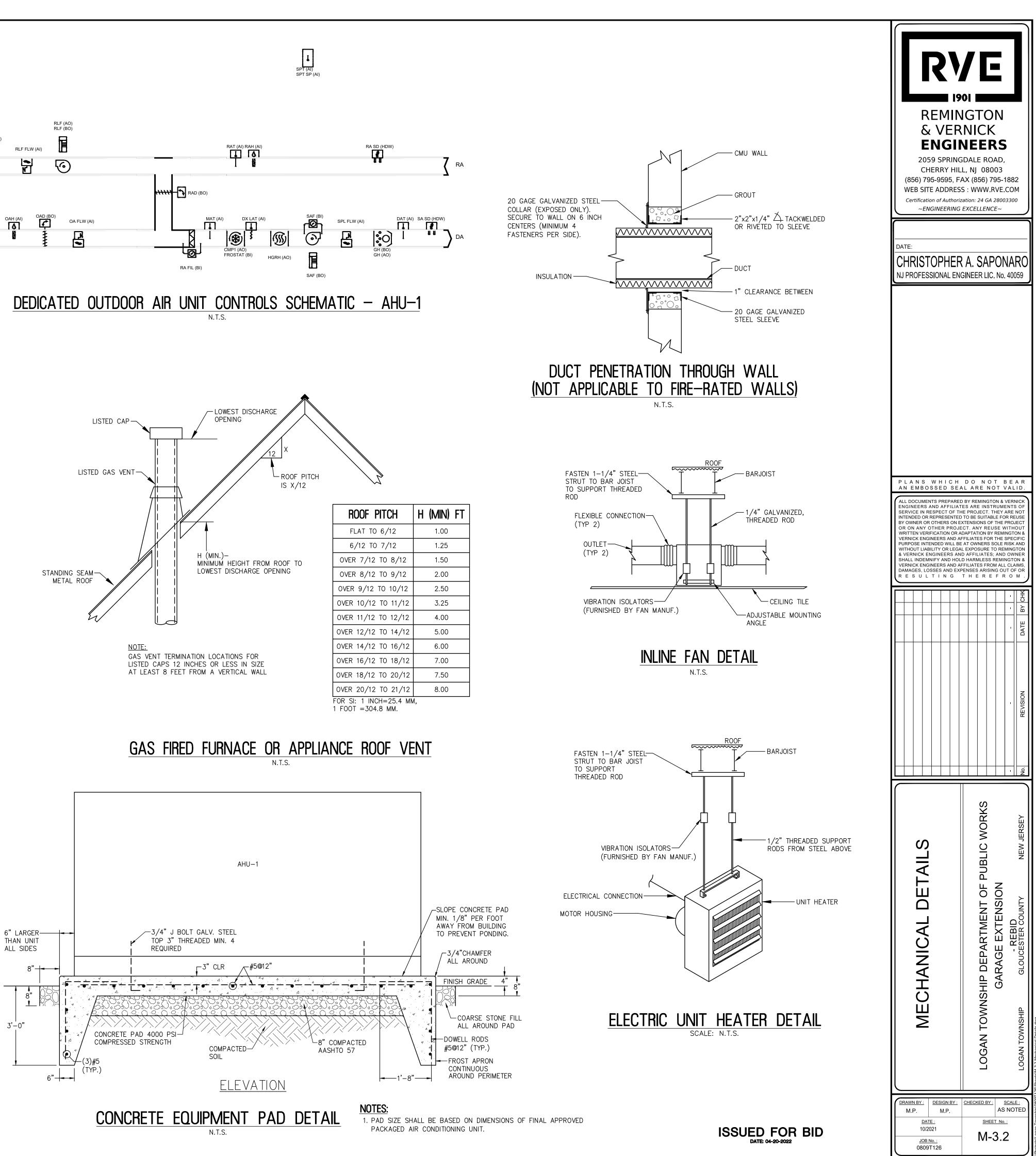




System Point Description				PC	DIN	TS					Α	LA	RN	IS	
OUTSIDE AIRFLOW OA FLW	× GRAPHIC	imes ANALOG HARDWARE INPUT (AI)	<b>BINARY HARDWARE INPUT (BI)</b>	ANALOG HARDWARE OUTPUT (AO)	<b>BINARY HARDWARE OUTPUT (BO)</b>	SOFTWARE POINT (SFT)	HARDWARE INTERLOCK (HDW)	WIRELESS (WLS)	NETWORK (NET)	HIGH ANALOG LIMIT	LOW ANALOG LIMIT	BINARY	LATCH DIAGNOSTIC	SENSOR FAIL	
SUPPLY AIRFLOW	X	X													
SPL FLW RELIEF FAN AIR FLOW	X	X								X	X			X	
RLF FLW															
COMPESSOR 1 (DIGITAL) CMP1	X			X											
COMPRESSOR 1 COMMAND					X										
DISCHARGE AIR TEMPERATURE	X	X												X	
DAT DX COIL FROST STAT	X	$\left  \right $	X	-		-	$\left  \right $					X			$\vdash$
FROSTAT DX COIL LEAVING AIR TEMPERATURE LOCAL	X	X								X	X			x	
DX LAT GAS HEATING ENABLE	X				X										
GH				 											
GAS HEAT OUTPUT COMMAND GH	X			X											
HOT GAS REHEAT VALVE COMMAND	X			X											
MIXED AIR TEMPERATURE LOCAL	X	X						$\left  \right $			X			X	╞
MAT OUTDOOR AIR DAMPER COMMAND	X				X										
OAD OUTSIDE AIR HUMIDITY LOCAL	X	X												X	
НАС															
OUTSIDE AIR TEMPERATURE LOCAL DAT	X	X												X	
PRIMARY FILTER STATUS LOCAL	X		X									Х			
RELIEF AIR DAMPER OPEN/CLOSE	X				X										
RLF DPR RELIEF AIR FAN SPEED	X			X											
RLF RELIEF AIR FAN START/STOP	X				X										
RLF															
RELIEF AIR FAN STATUS LOCAL RLF	X		X												
RETURN AIR DAMPER COMMAND	X				X										
RETURN AIR FILTER STATUS	X		X												
RA FIL RETURN AIR HUMIDITY LOCAL	X	X												X	
RAH RETURN AIR SMOKE DETECTION LOCAL							X								
RA SD RETURN AIR TEMPERATURE LOCAL	X	X												X	
RAT										-	-			^	
SPACE TEMPERATURE LOCAL (WIRED) SPT	X									X	X				
SPACE TEMPERATURE SETPOINT LOCAL (WIRED) SPT SP	X	X													
SUPPLY AIR SMOKE DETECTION LOCAL SA SD							X								
SUPPLY FAN START/STOP SAF	X				X										
SUPPLY FAN STATUS LOCAL SAF	X		X												l
COMPRESSOR ENABLE CMP ENA	X					X									
COMPRESSOR LOCKOUT STATUS CMP LCK COOL OUTPUT						X X									
CLG															
OCCUPANCY OCC	X					X									
OCCUPIED COOLING SETPOINT	X					X									
RETURN DEHUMIDIFICATION SETPOINT						X									
RTN DEH SP UNOCCUPIED COOLING SETPOINT	X	$\left  \right $		$\vdash$	-	X		-		-					
UNOCC CLG SP	X														
UNOCCUPIED HEATING SETPOINT UNOCC HTG SP						X									
SUPPLY FAN SPEED SETPOINT SAF STPT						X									ſ

# Points List: DEDICATED OA UNIT (AHU-1)





						VENTILA	TION AIR REQUIR	EMENTS (ASHRAE 62, INTE	ERNATIONAL MECH CO	DE 2018)					OUTDOOR AIR	EXHAUST A	AIR I	RETURN AIR	SUPPLY AIR
ROOM NAME	APPROX	OCCUPANT	NUMBER OF	PEOPLE OUTDOOR	TOTAL PEOPLE	AREA OUTDOOR	TOTAL AREA	BREATHING ZONE	ZONE AIR	ZONE AIR	ZONE OUTDOOR	PRIMARY	EXHAUST	TOTAL	CORRECTED	DESIGN	AS-BUILT [	DESIGN AS-	-BUILT DESIGN AS-BU
	AREA	DENSITY	PEOPLE & /	AIRFLOW RATE	OUTDOOR	AIRFLOW RATE	OUTDOOR	OUTDOOR AIRFLOW	DISTRIBUTION	DISTRIBUTION	AIRFLOW	OUTDOOR	AIRFLOW RATE	EXHAUST	DESIGN TOTAL	TOTAL	TOTAL	TOTAL TOT	AL TOTAL TOTAL
	(SF)	# PEOPLE/	OR FIXTURES	Rp	AIRFLOW	Ra	AIRFLOW	(CFM) Vbz	EFFECTIVENESS	EFFECTIVENESS	(CFM) Voz	AIR FRACTION		AIRFLOW	(CFM) Vot	(CFM)	(CFM) (	(CFM) (CF	M) MAX/MIN (CFM)
		1000 SF	(NOTE 1)		(CFM)		(CFM)		(COOLING) Ez	(HEATING) Ez		Zp		(CFM)	(NOTE 3)				(CFM)
LOCKER ROOM	473	N/A	N/A	N/A	0	NA	0	0	1.0	0.8	0	N/A	0.25 CFM/SQ.FT.	118	660	600		0	660
BREAK ROOM	475	70	7 PEOPLE	7.5 CFM/PERSON	53	0.18 CFM/SQ.FT.	86	138	1.0	0.8	173	0.29	N/A	0	600	600		0	600
TOILET ROOM #1	67	N/A	1 FIXTURE	N/A	0	N/A	0	0	1.0	0.8	0	N/A	50 CFM/FIXTURE	50	50	70		0	50
SHOWER ROOM	49	N/A	1 FIXTURE	N/A	0	N/A	0	0	1.0	0.8	0	N/A	50 CFM/FIXTURE	50	50	70		0	50
TOILET ROOM #2	69	N/A	1 FIXTURE	N/A	0	N/A	0	0	1.0	0.8	0	N/A	50 CFM/FIXTURE	50	50	70		0	50
TOTAL	1,133							138			173			268	1,410	1.410		0	1,410

1. OCCUPANT LOADS ARE ANTICIPATED OCCUPANT LOADS BASED ON ACTUAL EXPECTED OCCUPANCY.

# VENTILATION SCHEDULE (HEAT ONLY AREAS)

						VENTILA	TION AIR REQUIRE	EMENTS (ASHRAE 62, INT	ERNATIONAL MECH CO	DE 2018)					OUTDOOR AIR	EXHAUST	AIR RETURN	AIR SUPPLY AIR
ROOM NAME	APPROX.	OCCUPANT	NUMBER OF	PEOPLE OUTDOOR	TOTAL PEOPLE	AREA OUTDOOR	TOTAL AREA	BREATHING ZONE	ZONE AIR	ZONE AIR	ZONE OUTDOOR	PRIMARY	EXHAUST	TOTAL	CORRECTED	DESIGN	AS-BUILT DESIGN	AS-BUILT DESIGN
	AREA	DENSITY	PEOPLE & /	AIRFLOW RATE	OUTDOOR	AIRFLOW RATE	OUTDOOR	OUTDOOR AIRFLOW	DISTRIBUTION	DISTRIBUTION	AIRFLOW	OUTDOOR	AIRFLOW RATE	EXHAUST	DESIGN TOTAL	TOTAL	TOTAL TOTAL	TOTAL TOTAL
	(SF)	# PEOPLE/	OR FIXTURES	Rp	AIRFLOW	Ra	AIRFLOW	(CFM) Vbz	EFFECTIVENESS	EFFECTIVENESS	(CFM) Voz	AIR FRACTION		AIRFLOW	(CFM) Vot	(CFM)	(CFM) (CFM)	(CFM) MAX/MIN (
		1000 SF			(CFM)		(CFM)		(COOLING) Ez	(HEATING) Ez		Zp		(CFM)				(CFM)
GARAGE #1	6,690	N/A	N/A	N/A	0	N/A	0	0	N/A	1	0	N/A	0.75 CFM/SQ. FT.	5,018	10,800	10,800	0	10,800
GARAGE #2 – GENERAL AREA	3,989	N/A	N/A	N/A	0	N/A	0	0	N/A	1	0	N/A	0.75 CFM/SQ. FT.	2,992	6,390	6,390	0	6,390
GARAGE #2 – WASH BAY	864	N/A	N/A	N/A	0	N/A	0	0	N/A	1	0	N/A	0.75 CFM/SQ. FT.	648	2,000	2,000	0	2,000
STORAGE	377	N/A	N/A	N/A	0	0.12 CFM/SQ.FT.	45	45	N/A	1	45	N/A	N/A	0	400	400	0	400

		APPROX.				ELECTRICAL			SUPPLY FAN	1			DX COOLING	3						HOT GAS REHE	AT			GAS HEA	ATING				FILTERS					
OPERATION C	CONFIGURATION	UNIT	TOTAL	MIN.	RETURN		UNIT																						PRE-FILTER	PRE-FILTER	PRIMARY	PRIMARY	BASIS OF DESIGN	NC
		WEIGHT	AIRFLOW	OUTDOOR	AIRFLOW		AMPS MC	CA MFS	AIRFLOW	E.S.P.	MINIMUM	DRIVE	NOMINAL	TOTAL	SENSIBLE	COIL	COIL	COIL	REFRIG	CAPACITY	LAT	LAT		INPUT	OUTPUT E	AT LAT	GAS	TURNDOWN	TYPE	RATING	FILTER	FILTER		
		(LBS)	(CFM)	AIRFLOW	(CFM)	V/PH/Hz			(CFM)	(in WC)	MOTOR	TYPE	TONAGE	CAPACITY	CAPACITY	EAT	EAT	LAT	TYPE	(MBH)	DB	WB	STAGES	(MBH)	(MBH) (	(F) (F)	PRESSURE				TYPE	RATING		
				(CFM)			(A) (A	A) (A)			HP			(MBH)	(MBH)	DB	WB	DB/WB			(F)	(F)					RANGE (IN. W.C.)							
CV (100% OA) H	HORIZONTAL FLOW	1,923	1.410	1,410	0	208/3/60	50.4 57	7.3 80	1,410	1.00	4.1	CV W/ ECM	9	98.0	54.2	88	74	53/53	R410A	42.9	81.1	63.6	MODULATING	150	120	11 89.5	7–14	10:1	2" PLEATED MEDIA	MERV-8	2" PLEATED MEDIA	MERV 13	TRANE OABD108D	

2. PROVIDE UNIT WITH 2" DOUBLE WALL FOAMED PANEL CONSTRUCTION, STAINLESS STEEL DRIP PAN, DISCHARGE AIR CONTROL WITH APR VALVE CONTROL, AND 2-POSITION OUTDOOR AND RETURN AIR DAMPERS.

TAG	ROOM(S) SERVED	FAN TYPE	CFM	TOTAL S.P. (in. w.c.)	MOTOR HP OR WATTS	DRIVE TYPE	ELECTRICAL V/PH/HZ	SONES	ROOF / WALL OPENING SIZE	APPROXIMATE WEIGHT (LBS)	BASIS OF DESIGN	NOTE
F-1	GARAGE #2 BAY	CENTRIFUGAL INLINE	6,390	0.25	2	DIRECT	208/3/60	12.0	N/A	229	GREENHECK SQ-24-07-0700-VG	1,3
F-2	GARAGE #2 WASH BAY	CENTRIFUGAL INLINE	2,000	0.25	1/4	DIRECT	208/3/60	7.1	N/A	138	GREENHECK SQ-160-C	1,3
F-3	GARAGE #2 STORAGE	CENTRIFUGAL INLINE	400	0.25	1/10	DIRECT	120/1/60	5.5	N/A	49	GREENHECK SQ-90-VG	1,4
F-4	GARAGE #1 BAY	WALL MOUNT EXHAUST	5,400	0.25	3/4	BELT	208/3/60	12.4	26.5" × 26.5"	76	GREENHECK SBE-2L24	2,3
F-5	GARAGE #1 BAY	WALL MOUNT EXHAUST	5,400	0.25	3/4	BELT	208/3/60	12.4	26.5" x 26.5"	76	GREENHECK SBE-2L24	2,3
DTES: 1. 2.	PROVIDE FAN WITH UNIT MOUNTED DISCONNECT SWITCH INLINE DISCHARGE CONFIGURATION, HANGING SPRING	IN NEMA 3R ENCLOSURE (WITH INTEGRAL STARTER), INSU ISOLATORS, FLEX DUCT CONNECTIONS, AND ALL OTHER AC NCLOSURE (WITH INTEGRAL STARTER), WALL HOUSING, WEA OPERATE THE EXHAUST FAN.	ULATED HOUSING, MOTOF CCESSORIES REQUIRED T	R COVER & BELT G	JARD, ALUMINUM CO ERATE THE EXHAUS	NSTRUCTION, FAN.			26.5" x 26.5"	76	GREENHECK SBE-2L24	_

LOUV	/ER SCHEDULE								
TAG	SERVICE	SYSTEM	AIRFLOW (CFM)	SIZE (W x H)	FREE AREA (FT2)	MATERIAL	FINISH	BASIS OF DESIGN	NOTES
L-1	EXHAUST	EF-1	6,390	50" x 48"	9.47	ALUMINUM	MILL.	RUSKIN ELF6375DXH	1,2&3
L-2	EXHAUST	EF-2	2,000	32" x 30"	3.41	ALUMINUM	MILL.	RUSKIN ELF6375DXH	1,2&3
L-3	INTAKE	EF-1	6,390	50" x 48"	9.47	ALUMINUM	MILL.	RUSKIN ELF6375DXH	1,2&3
L-4	INTAKE	EF-4	5,400	54" x 40"	8.23	ALUMINUM	MILL.	RUSKIN ELF6375DXH	1,2&3
L-5	INTAKE	EF-5	5,400	54" x 40"	8.23	ALUMINUM	MILL.	RUSKIN ELF6375DXH	1,2&3
L-6	INTAKE	EF-3	400	20" x 18"	2.5	ALUMINUM	MILL.	RUSKIN ELF6375DXH	1,2&3
NOTES:	1. PROVIDE WITH BIRD SCREEN, II	NTEGRAL FL/	ANGE, AND BAKED EN	NAMEL FINISH (CO	OORDINATE COLOR WITH	OWNER).			
	2. PROVIDE LOUVER WITH CD36 M	MOTORIZED D	AMPER.						
I	3. INTERLOCK LOUVER DAMPERS	WITH ASSOC	IATED EXHAUST FANS	S					

3.	INTERLOCK	LOUVER	DAMPERS	WITH	ASSOCIATED	EXHAUST	FANS.

DIFF	<b>FUSER</b> , RE	EGISTE	DIFFUSER, REGISTER & GRILLE SCHEDULE										
TAG	DESCRIPTION	FACE	NECK	DIRECTION	ŀ	BASIS OF DESIGI	N						
					MF'R	MODEL	NOTES						
А	DIFFUSER	12"x12"	4" DIA.	SUPPLY	PRICE	ACSD	1,2,3,4						
В	DIFFUSER	24"x24"	8" DIA.	SUPPLY	PRICE	ACSD	1,2,3,4						
С	GRILLE	6"x6"	6"x6"	RETURN/EXHAUST	PRICE	630DAL	1,2,3,4						
D	GRILLE	16"x16"	16"x16"	RETURN/EXHAUST	PRICE	630DAL	1,2,3,4						
Е	DIFFUSER	32"x22"	32"x22"	RETURN/EXHAUST	PRICE	630DAL	1,2,3,4						
F	REGISTER	32"x22"	32"x22"	RETURN/EXHAUST	PRICE	730DAL	1,2,3,4						

NOTES: 1. COORDINATE MOUNTING FRAME WITH CEILING/WALL TYPE.

2. COORDINATE COLOR & FINISH WITH ARCHITECT. 3. NC (NOISE CRITERIA) LEVEL MAY BE NO GREATER THAN 25.

4. PROVIDE WITH ALUMINUM OPPOSED BLADE DAMPERS.

5. PROVIDE GRILLE WITH COLLAR FOR DOUBLE WALL SPIRAL DUCT MOUNTING.

## INTAKE VENTILATOR SCHEDULE TAG SERVICE SYSTEMS IV-1 GARAGE AIR INTAKE EF-2 NOTES: 1. PROVIDE WITH BIRDSCREEN, ROOF CURB, AND GRAVITY BACKDRAFT DAMPER CFM ROOF OPENING 2,000 20.5"x20.5"

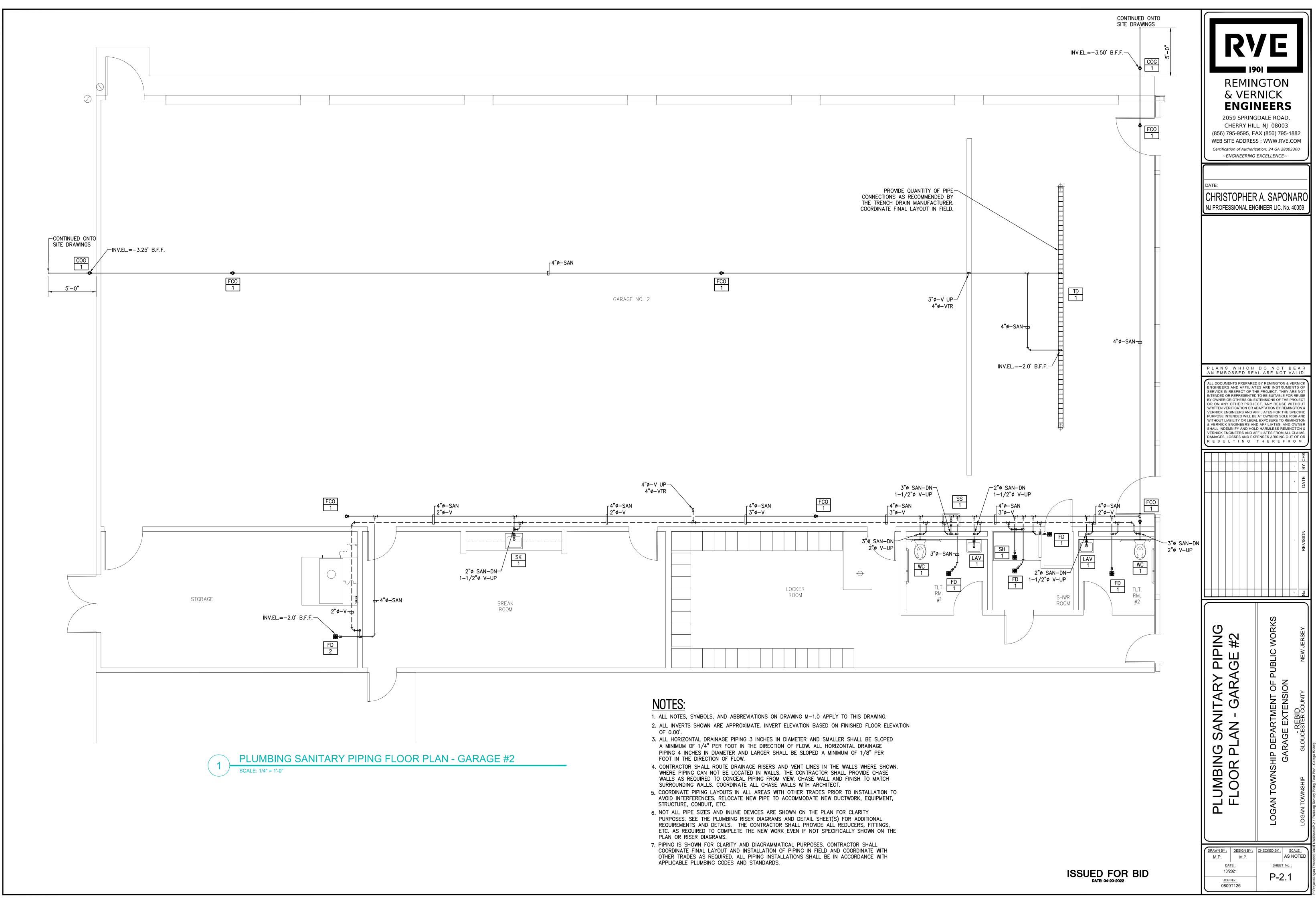
ELEC	CTRIC UNIT HEA	TER SCHEDULE								
TAG #	TYPE	LOCATION	APPROXIMATE DIMENSIONS (LxWxH)	AIRFLOW (CFM)	V/Ph/Hz	KW RATING	OUTPUT MBH	WT. (LBS)	BASIS OF DESIGN	NOTES
EUH-1	HORIZONTAL BLOWER	GARAGE #2 STORAGE	7"x15"x18"	400	208/3/60	2.5	8500	25	MARKEL HF2B5103N	1,2
NOTES:	1. PROVIDE UNIT WITH SINGLE S	STAGE THERMOSTAT, PIPE HANGER ADA	PTOR KIT, SUMMER /	WINTER SWITCH,	MOUNTING BRACK	ETS, THERMOSTA	AT GUARD AND BEL	T GUARD.		
	2. PROVIDE UNIT WITH WALL MO	DUNTED THERMOSTAT, BUILT-IN WIREW	AY, PEDESTAL KIT, DISC	CONNECT SWITCH	, AND MOUNTING /	ACCESSORIES.	COORDINATE FINISH	COLOR W	ITH ARCHITECT.	

TAG	TYPE	LOCATION			FAN(S)		ELECTRICAL			NOMINAL	NOMINAL		MIN GAS	BASIS	NOTES
			APPROX. DIM	WEIGHT	AIRFLOW	MOTOR	MOP	FLA	V/Ph/Hz	OUTPUT	INPUT	EFFICIENCY	INLET	OF DESIGN	
			(D x H x W)	(LBS)	(CFM)	HP				(MBH)	(MBH)		(IN)		
GUH-1	SEPARATED COMBUSTION	GARAGE #2	48"x20"x38"	194	2562	1/6	15	4.6	115/1/60	166.0	200	83%	1/2	REZNOR UDZ-200	1, 2
GUH-2	SEPARATED COMBUSTION	GARAGE #2	48"x20"x38"	194	2562	1/6	15	4.6	115/1/60	166.0	200	83%	1/2	REZNOR UDZ-200	1, 2
GUH-3	SEPARATED COMBUSTION	GARAGE #2	48"x20"x38"	194	2562	1/6	15	4.6	115/1/60	166.0	200	83%	1/2	REZNOR UDZ-200	1, 2
GUH-4	SEPARATED COMBUSTION	GARAGE #2	48"x20"x38"	194	2242	1/6	15	3.8	115/1/60	145.2	175	83%	1/2	REZNOR UDZ-175	1, 2
GUH-5	SEPARATED COMBUSTION	GARAGE #1	48"x20"x38"	194	2562	1/6	15	4.6	115/1/60	166.0	200	83%	1/2	REZNOR UDZ-200	1, 2
GUH-6	SEPARATED COMBUSTION	GARAGE #1	48"x20"x38"	194	2562	1/6	15	4.6	115/1/60	166.0	200	83%	1/2	REZNOR UDZ-200	1, 2
GUH-7	SEPARATED COMBUSTION	GARAGE #1	48"x20"x38"	194	2562	1/6	15	4.6	115/1/60	166.0	200	83%	1/2	REZNOR UDZ-200	1, 2
GUH-8	SEPARATED COMBUSTION	GARAGE #1	48"x20"x38"	194	2562	1/6	15	4.6	115/1/60	166.0	200	83%	1/2	REZNOR UDZ-200	1, 2
GUH-9	SEPARATED COMBUSTION	GARAGE #1	48"x20"x38"	194	2562	1/6	15	4.6	115/1/60	166.0	200	83%	1/2	REZNOR UDZ-200	1, 2
NOTES: 1.	PROVIDE HEATERS WITH TRANSFORME	R, MOUNTING ACCESSORIES, THE	RMOSTAT, COMBUSTION	AIR VENT KIT,											

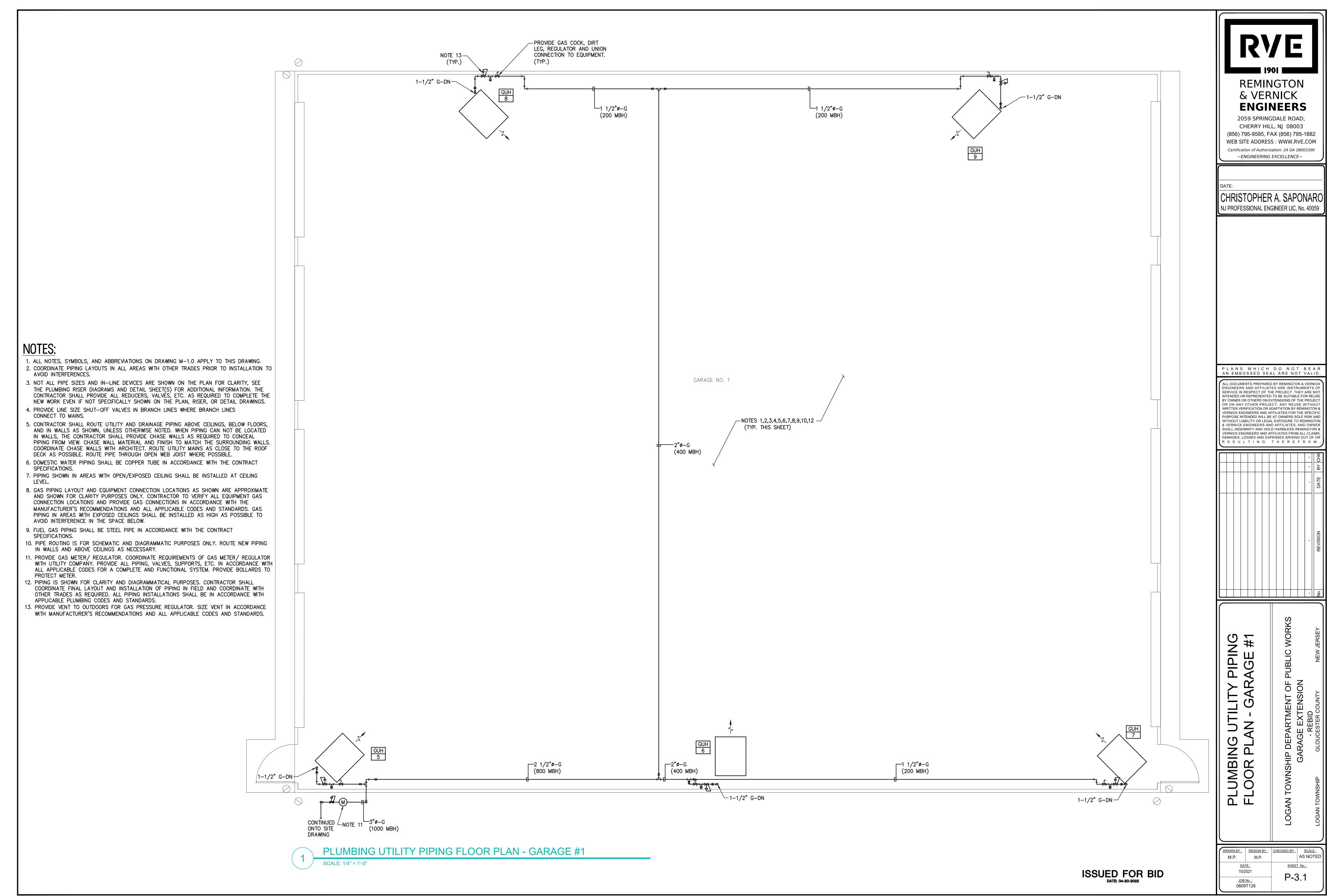
THROAT AREA	HOOD SIZE	CURB CAP SIZE	BASIS OF DESIGN	NOTES
(SQ. FT.)	(DIA. X H)	(W X L)		
2.0	35.5" X 23.25"	30"X 30"	GREENHECK GRSI 20	1

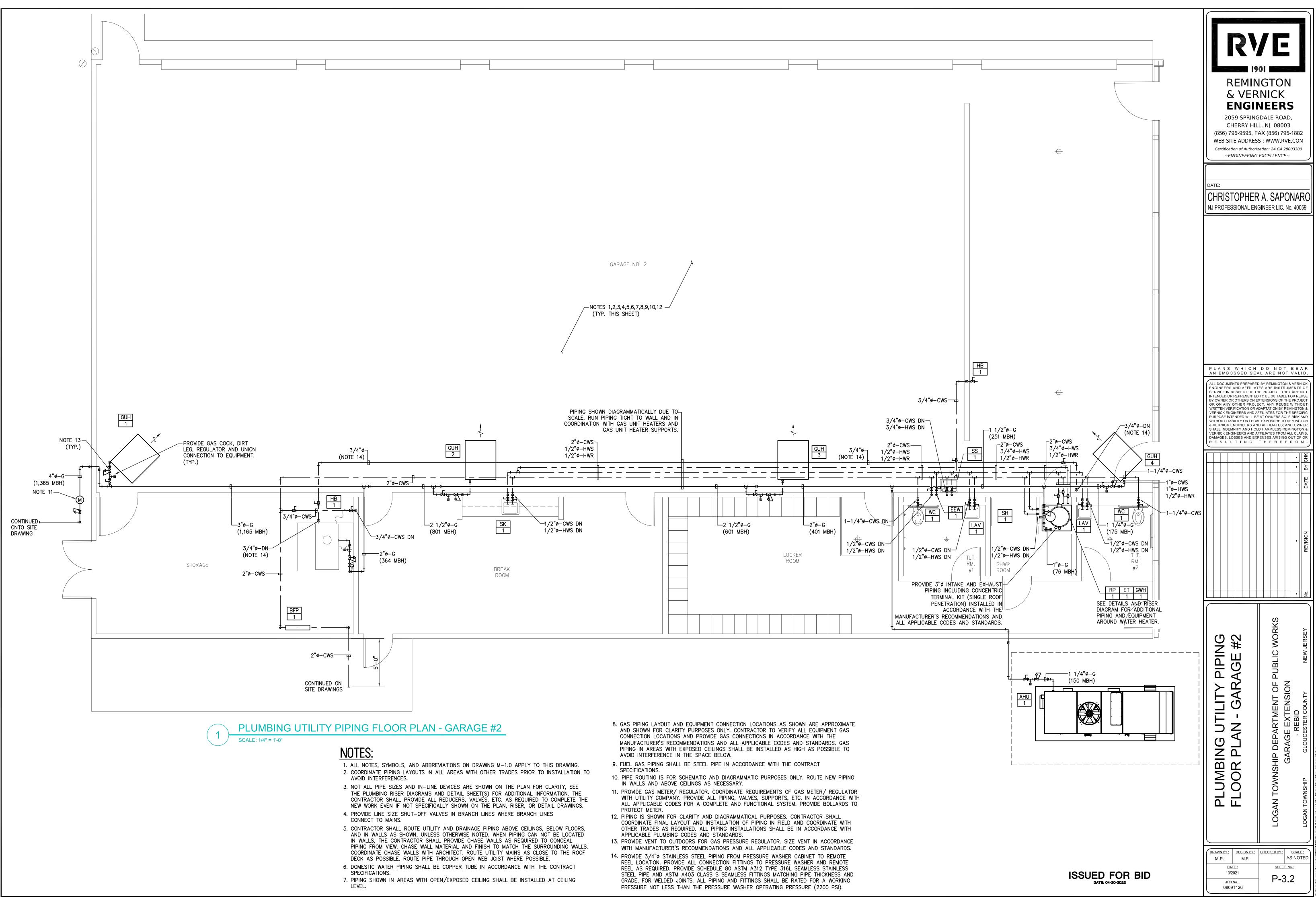
IS REMIN & VER ENGI 2059 SPRING CHERRY HIL (856) 795-9595, FJ WEB SITE ADDRES	IGTON NICK NEERS DALE ROAD, L, NJ 08003 AX (856) 795-1882 S : WWW.RVE.COM eation: 24 GA 28003300
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CHRISTOPHER NJ PROFESSIONAL EN	A. SAPONARO
	DO NOT BEAR ALARE NOT VALID.
SERVICE IN RESPECT OF TH INTENDED OR REPRESENTED BY OWNER OR OTHERS ON E OR ON ANY OTHER PROJE WRITTEN VERFICATION OR A VERNICK ENGINEERS AND A PURPOSE INTENDED WILL BE WITHOUT LIABILITY OR LEGA & VERNICK ENGINEERS AN SHALL INDEMNIFY AND HOL VERNICK ENGINEERS AND A	ES ARE INSTRUMENTS OF IE PROJECT. THEY ARE NOT TO BE SUITABLE FOR REUSE XTENSIONS OF THE PROJECT ECT. ANY REUSE WITHOUT DAPTATION BY REMINGTON & FFILIATES FOR THE SPECIFIC AT OWNERS SOLE RISK AND L EXPOSURE TO REMINGTON D AFFILIATES; AND OWNER D HARMLESS REMINGTON & FFILIATES FROM ALL CLAIMS, PENSES ARISING OUT OF OR T H E R E F R O M .
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	REVISION
SCHEDULES	PUBLIC WORKS NEW JERSEY
MECHANICAL SCHE	LOGAN TOWNSHIP DEPARTMENT OF PUBLIC WORKS GARAGE EXTENSION - REBID LOGAN TOWNSHIP GLOUCESTER COUNTY NEW JERSEY
MECH	LOGAN TOWNS LOGAN TOWNSHIP
DRAWN BY:         DESIGN BY:           M.P.         M.P.           DATE:         10/2021	CHECKED BY :     SCALE :       AS NOTED         SHEET No. :
<u>JOB No. :</u> 0809T126	M-4.1

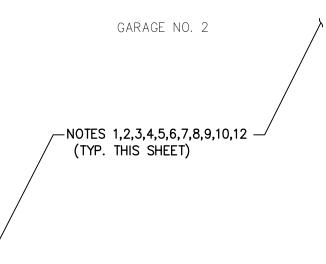
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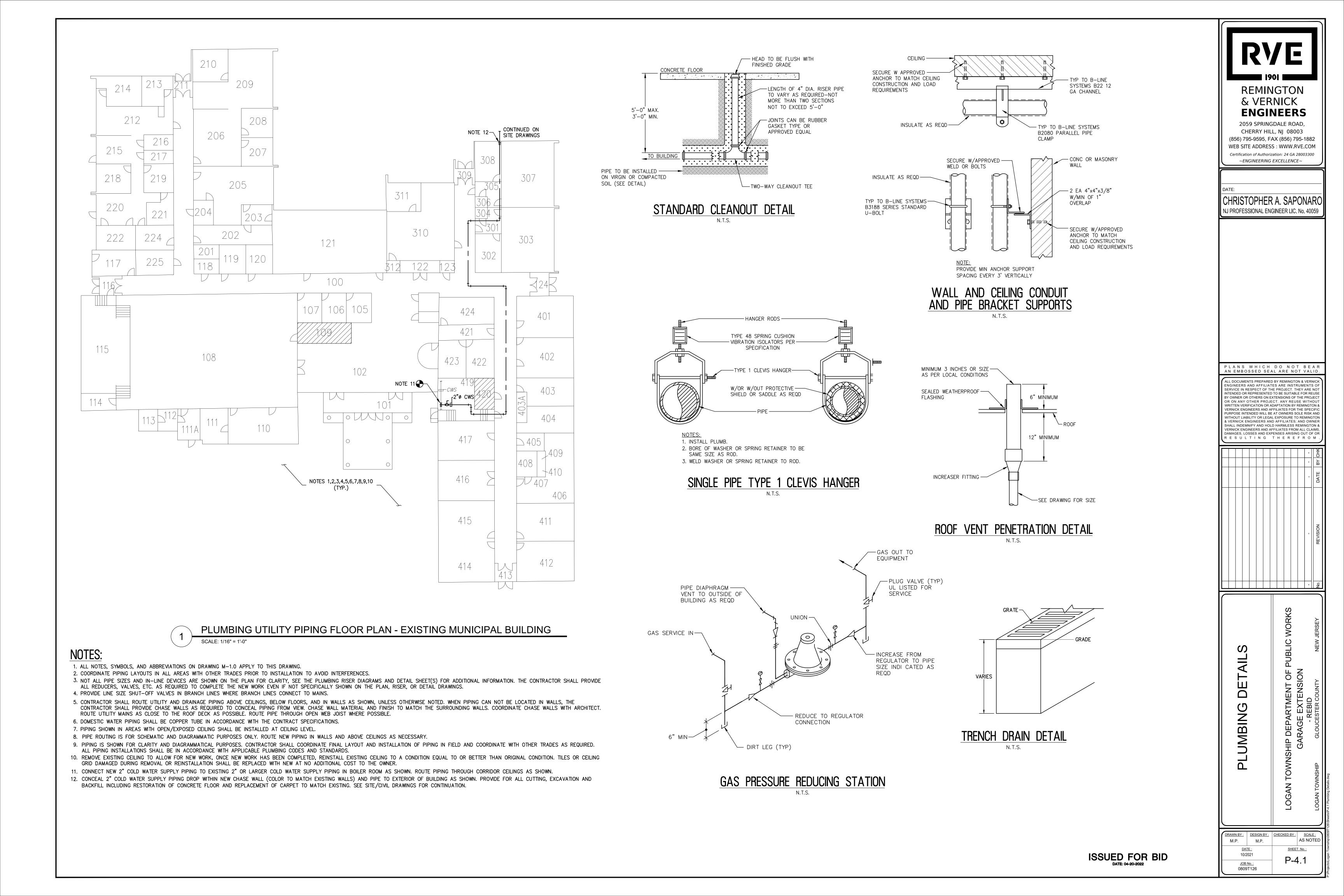


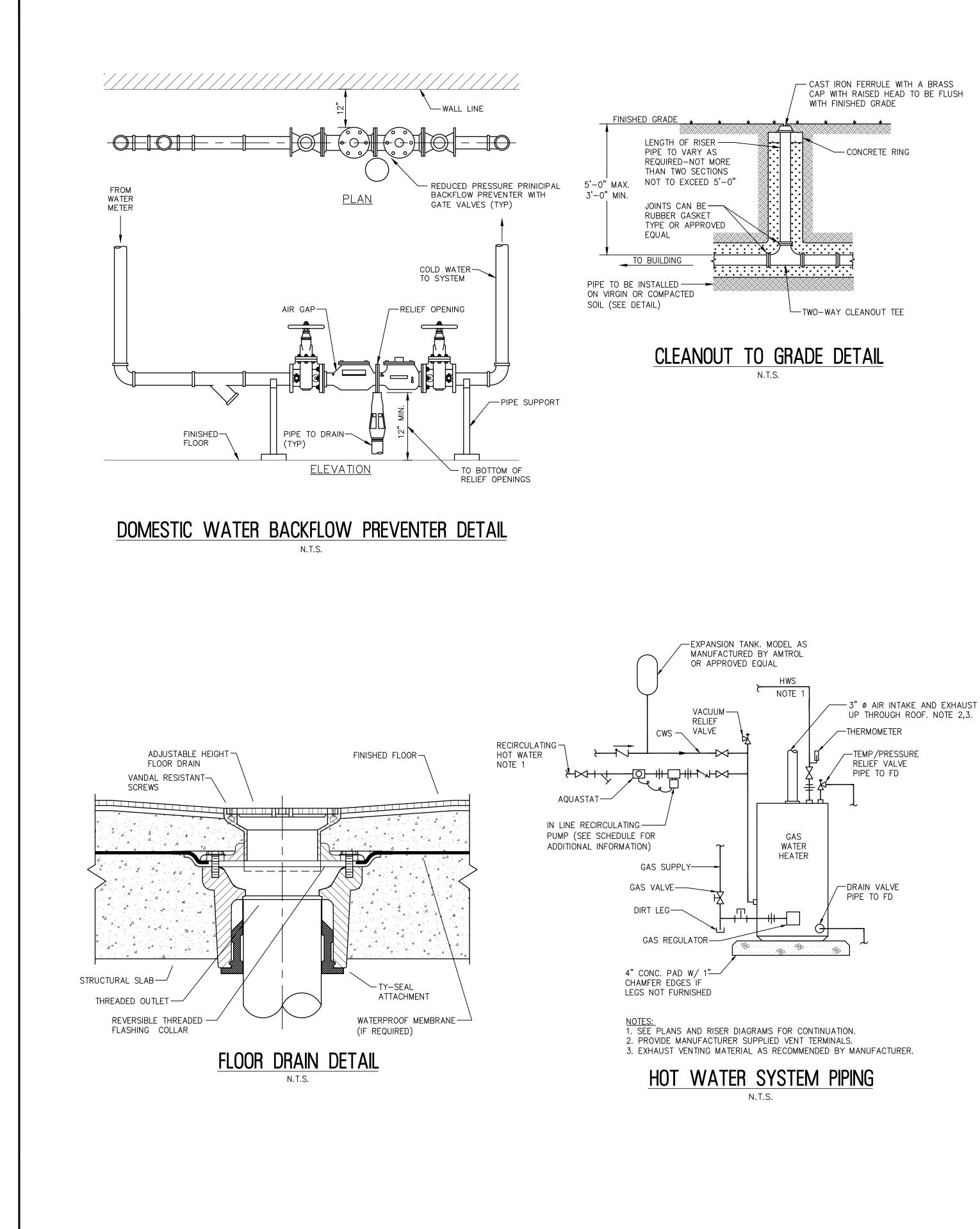
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				F
PROVIDE Q CONNECTIONS AS R THE TRENCH DRAIN COORDINATE FINAL I				
COORDINATE FINAL				
			4"ø−SAN	
	FCO 1		U	
		GARAGE NO. 2		

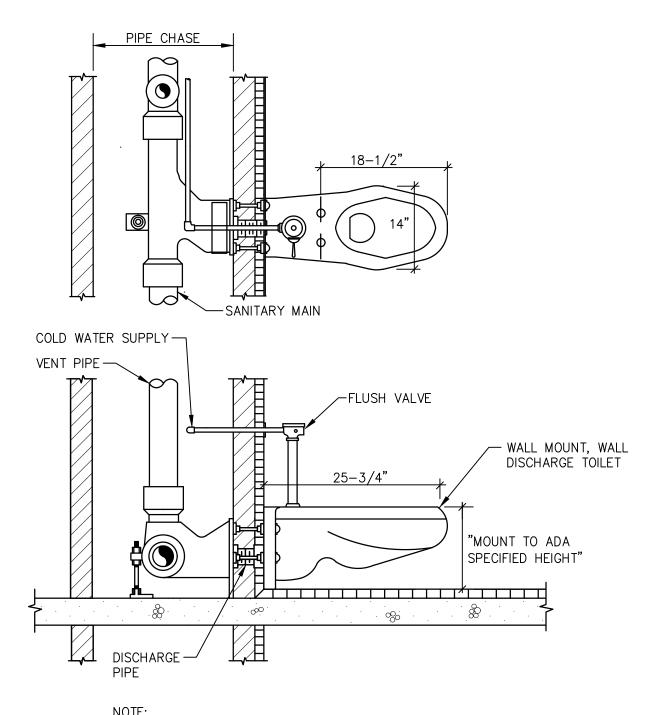






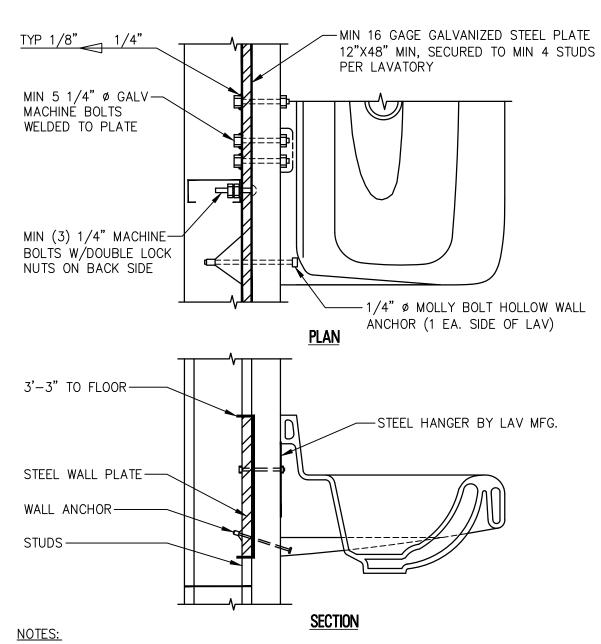






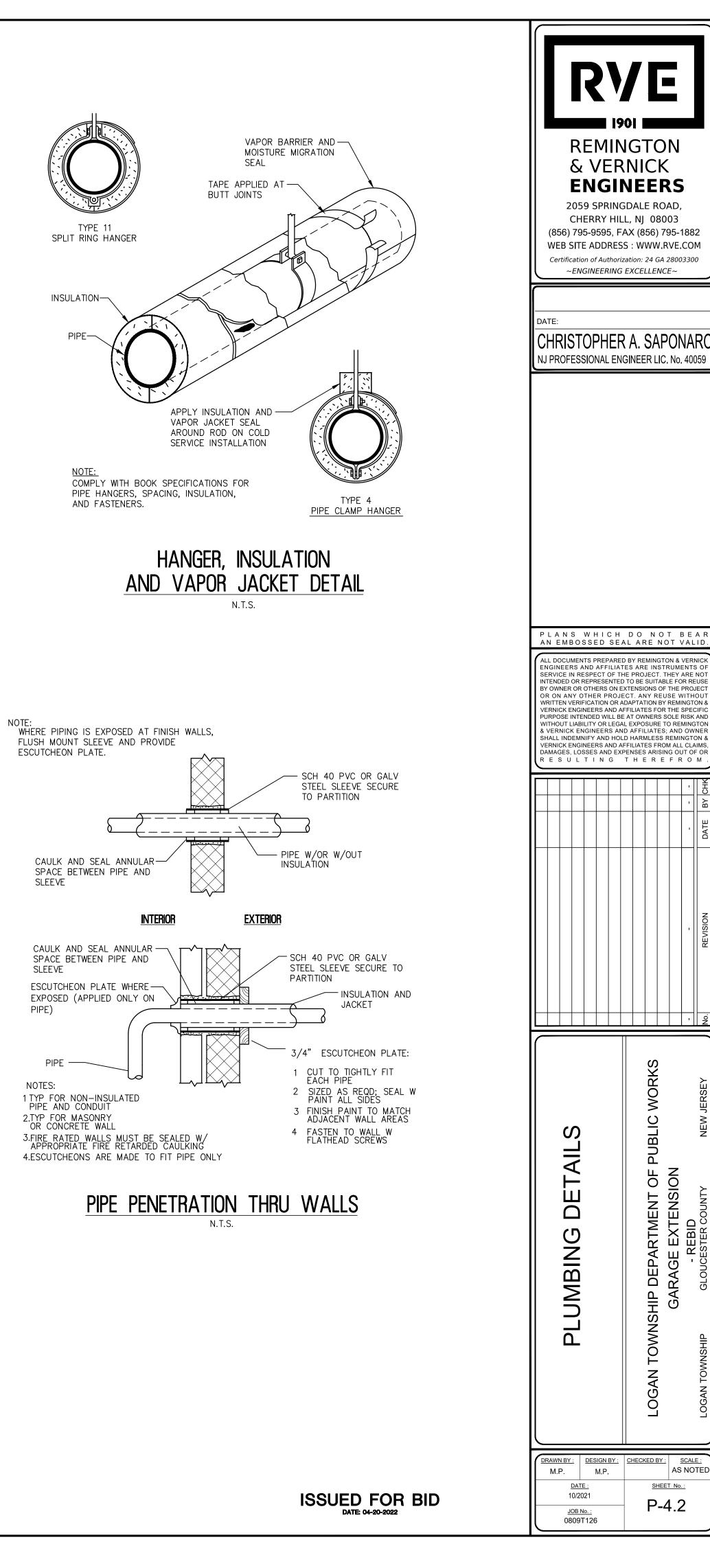
<u>NOTE:</u> ALL PIPING FOR WC AND UR IS TO BE BEHIND WALL.

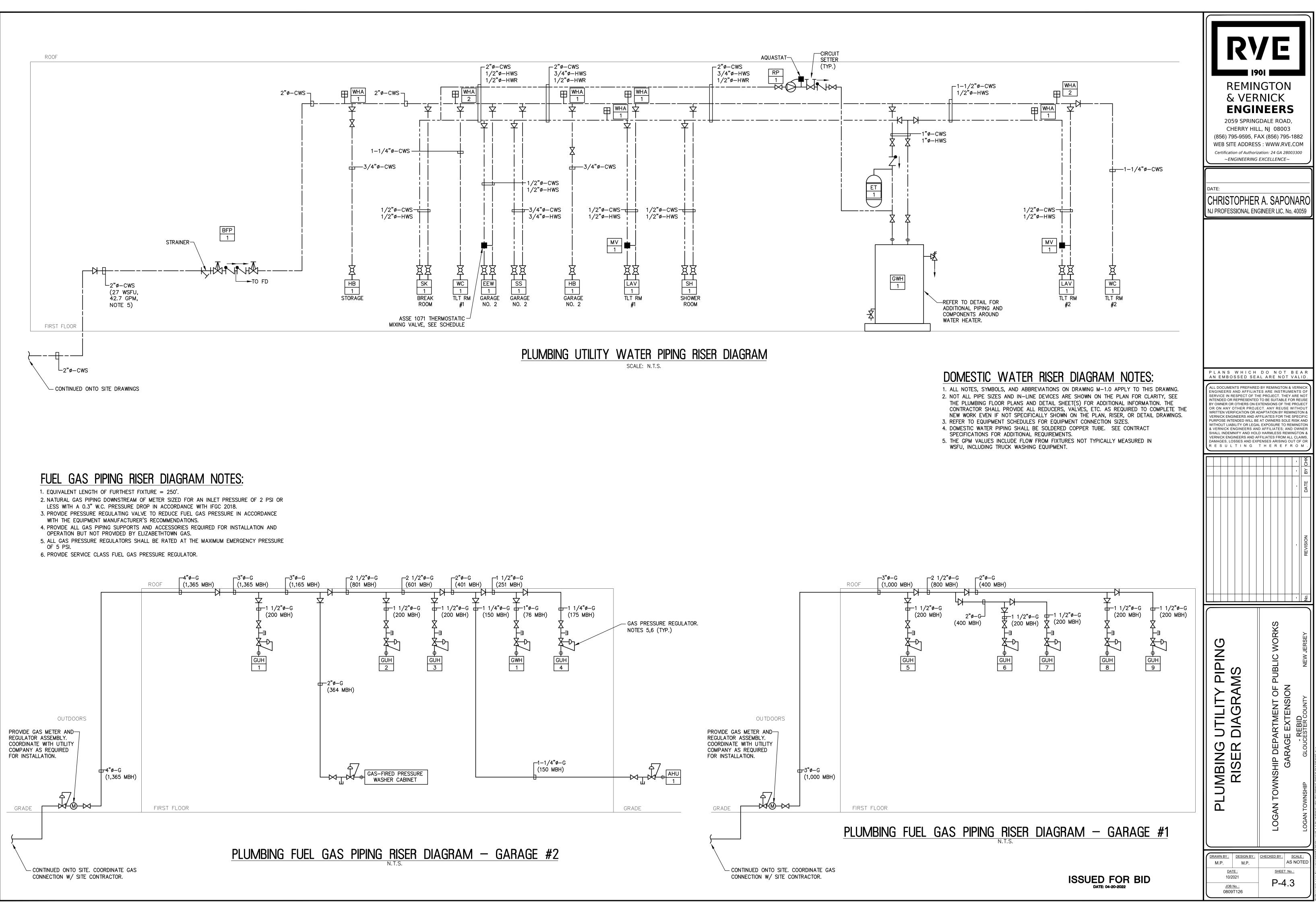
# REAR MOUNTED ON-THE-WALL WATER CLOSET DETAIL N.T.S.

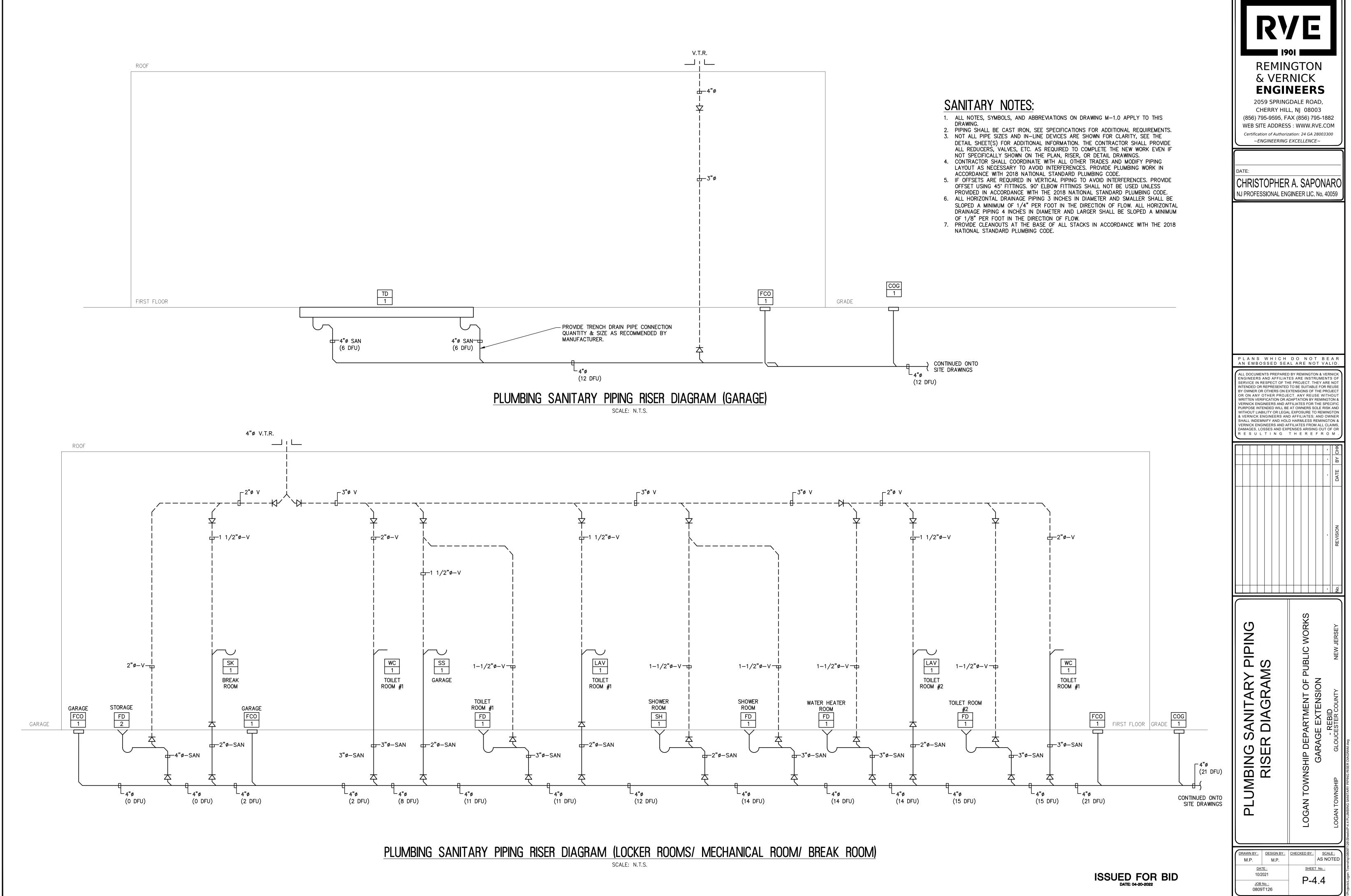


1. AT LAVS WITH FLOOR PEDAL CONTROLS, PROVIDE AN ADDITIONAL 16 GAGE GALVANIZED STEEL PLATE 12"X16" SECURED TO A MINIMUM 2 STUDS FOR FOOT PEDAL. PROVIDE 20 GAGE STUDS WHEN HEIGHT EXCEEDS 12'-0".

> LAVATORY MOUNTING DETAIL SCALE: N.T.S.







TAG	FIXTURE	DESCRIPTION	MANUF.	MODEL	MANUF.	ACCESSORY	MINIMUM C	ONNECTION	N SIZE (in.)		WATER SUPPLY	DRAINAGE FIXTUR
						(NOTES 1,2)	COLD	НОТ	DRAIN	VENT	FIXTURE UNITS (WSFU's)	UNITS (DFU's)
BFP-1	BACKFLOW PREVENTER	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	LF909 (SMALL)	WATTS	QT, S	2	N/A	N/A	N/A	N/A	N/A
COG-1	CLEANOUT	OUTDOOR, CLEANOUT ON GRADE	ZURN	Z1474	ZURN	G-VP	N/A	N/A	LINE	N/A	N/A	N/A
EW-1	EMERGENCY EYEWASH	WALL MOUNTED EMERGENCY EYEWASH / DRENCH HOSE WITH TEMPERING VALVE	GUARDIAN	G5026BP	GUARDIAN	"G6022" THERMOSTATIC MIXING VALVE W/ SURFACE MOUNTED STAINLESS STEEL CABINET, "FSH" FLEXIBLE STAINLESS STEEL HOSE, "VB" VACUUM BREAKER	1/2	1/2	N/A	N/A	N/A	N/A
- CO-1	CLEANOUT	HEAVY DUTY ADJUSTABLE FLOOR CLEANOUT	ZURN	Z1400	ZURN	ZN, VP	N/A	N/A	LINE	N/A	N/A	N/A
FD-1	FLOOR DRAIN	SQUARE CAST IRON FLOOR DRAIN	ZURN	Z415S	ZURN	ZN, VP, 8" SQ. STRAINER, DEEP SEAL TRAP, Z1072 BARRIER TRAP SEAL	N/A	N/A	3	2	N/A	0.0
™D-2	FLOOR DRAIN	ROUND MEDIUM DUTY DRAIN	ZURN	Z551	ZURN	Z1072 BARRIER TRAP SEAL	N/A	N/A	4	N/A	N/A	0.0
IB-1	HOSE BIBB	NO-KINK COPPER ALLOY BRONZE HOSE BIBB	WOODFORD	MODEL 24	N/A	INTEGRAL ANTI-SIPHON, VACUUM BREAKER	3/4	N/A	N/A	N/A	N/A	N/A
WC-1	ADA WATER CLOSET	ELONGATED 1.6 GPF WALL MOUNTED ADA COMPLIANT WATER CLOSET W/MANUAL EXPOSED FLUSH VALVE	ZURN	Z5615-BWL-AM	ZURN	MANUAL EXPOSED FLUSH VALVE Z6000AV-WS1, Z5955SS-EL ELONGATED TOILET SEAT, EXTENDED ACORN NUT/WASHER KIT, Z1201 CARRIER (750 LBS RATING)	1	N/A	3	2	8.0	6.0
4V—1	LAVATORY SINK	WALL HUNG VITREOUS CHINA LAVATORY	ZURN	Z5314	ZURN	4" CENTERSET Z86500-XL-RKR METERING FAUCET, ADA TRAP PROTECTOR, SUPPLIES WITH STOPS, P-TRAP, Z1231 CARRIER, NOTE 3	1/2	1/2	1 1/2	1 1/2	1.0	1.0
/V-1	MIXING VALVE	THERMOSTATIC POINT OF USE MIXING VALVE	WATTS	LFUSG-B	N/A	NOTE 3	3/8	3/8	N/A	N/A	N/A	N/A
SK-1	SINK	STAINLESS STEEL UNDERMOUNT SINGLE BOWL SINK	ELKAY	ELU231710	ELKAY	LK99 DRAIN, MOUNTING ACCESSORIES, LKD2433 FAUCET	1/2	1/2	1 1/2	1 1/2	1.5	2.0
SH-1	ADA ONE PIECE SHOWER STALL	ADA COMPLIANT ONE PIECE SHOWER STALL WITH VALVE AND HANDHELD SPRAYER	AQUARIUS	AQT5038TR1.125-LB-LS-HH	AQUARIUS	FULLY CONFIGURED WITH LEFT HAND SEAT, HAND HELD SHOWER ASSEMBLY, 30" SLIDE BAR, 60" HOSE, PRESSURE BALANCING MIXING VALVE	1/2	1/2	2	1 1/2	2.0	2.0
SS-1	SERVICE SINK	CAST IRON SERVICE SINK	ZURN	Z5898.02.215.0.00.02	ZURN	"Z843M1-RC" FAUCET W/ VB, "HH" HOSE AND HOSE BRACKET W/ MOP HANGER, "Z5900-IP3" TRAP	3/4	3/4	2	NA	3.0	3.0
TD-1	TRENCH DRAIN	HIGH DENSITY 6" WIDE TRENCH DRAIN WITH PAINTED DUCTILE IRON ADA SLOTTED GRATE & FRAME	WADE	WN900-HPDLP	WADE	H-20 RATED COVER, PROVIDE SLOPED SECTIONS PER MANUF. RECOMMENDATIONS	N/A	N/A	4	N/A	N/A	N/A
VHA-1	WATER HAMMER ARRESTOR	INLINE WATER HAMMER ARRESTOR	WILKINS/ZURN	1250XL-A	N/A	NOTE 4	VARIES	N/A	N/A	N/A	N/A	N/A
HA-2	WATER HAMMER ARRESTOR	INLINE WATER HAMMER ARRESTOR	WILKINS/ZURN	1250XL-B	N/A	NOTE 4	VARIES	N/A	N/A	N/A	N/A	N/A

GAS H	IOT WATER HEA	TER SCHEDUL	E								
TAG	MANUF.	MODEL	STORAGE CAPACITY (gallons)	GAS INPUT (MBh)	THERMAL EFFICIENCY	RECOVERY @ 100 °F (gal/hr)	FIRST HOUR RATING	VENT SIZE (in)	COLD WATER INLET (in.)	HOT WATER OUTLET (in.)	NOTES
GWH-1	BRADFORD WHITE	LC2PDV50H763N	50	76	84%	80	125	3	3/4	3/4	1
NOTES:	1. PROVIDE WITH LOW-WATER CU CONDENSATE NEUTRALIZATION KIT		H LCD DISPLAY, TEMPERATURE/F	PRESSURE RELIEF V	ALVES, ALARM CONT.	ACTS, MANUAL RESET HIGH LIN	NIT, POWER DIRECT VENT SYS	STEM,			

HO	<b>FWATER RECIRCULATION PUMP S</b>	CHEDULE										
TAG	SERVICE	TYPE	FLUID	FLOW	TDH (ft)	MOTOR	MOTOR	ELECTRICAL	BASIS OF DESIGN			NOTES
			TYPE	(gpm)		WATTS	RPM	(V / Hz / ph)	MF'R.	MODEL	DESCRIPTION	
RP-1	DOMESTIC HOT WATER RECIRCULATION SYSTEM	CIRCULATOR	WATER	2	10	125	2950 (speed 1)	115/60/1	BELL & GOSSETT	NBF-25	BRONZE BODY, LEAD FREE, MAINTENANCE FREE CIRCULATOR	1
NOTES:	1 PROVIDE WITH MANUFACTURER'S AQUASTAT & AUTOMATI	C TIME CONTROLL	ER.									

TAG	TANK VOLUME (GAL)	MAX. ACCEP. FACTOR	MAX. WORKING PRESSURE (PSIG)	TANK DIA. (IN)	TANK LENGTH (IN)	APPROX. TANK WEIGHT (100% FULL) (LBS)	MANUFACTURER & MODEL NUMBER	NOTES
ET-1	2.0	0.45	150	8	14	10	AMTROL ST-5C	1

ATER SUPPLY RE UNITS (WSFU's) N/A N/A	DRAINAGE FIXTURE UNITS (DFU's) N/A N/A		
N/A N/A	N/A N/A N/A		
N/A N/A	0.0	& VEF	RNICK
N/A 8.0	N/A 6.0	_	<b>NEERS</b> GDALE ROAD,
1.0 N/A 1.5	1.0 N/A 2.0	CHERRY HI	LL, NJ 08003
2.0 3.0	2.0 2.0 3.0	WEB SITE ADDRES	5AX (856) 795-1882 5S : WWW.RVE.COM
N/A N/A	N/A N/A		ization: 24 GA 28003300 G EXCELLENCE~
N/A	N/A		R A. SAPONARO
WATER HOT W (in.) OUTLET /4 3/	Г (in.)		
TION TENANCE FREE CIRCUL	ATOR 1		
			DO NOT BEAR AL ARE NOT VALID.
MANUFACTUREF MODEL NUMBE		ENGINEERS AND AFFILIA	D BY REMINGTON & VERNICK TES ARE INSTRUMENTS OF HE PROJECT. THEY ARE NOT
AMTROL ST-5	C 1	INTENDED OR REPRESENTE BY OWNER OR OTHERS ON I OR ON ANY OTHER PROJ	D TO BE SUITABLE FOR REUSE EXTENSIONS OF THE PROJECT ECT. ANY REUSE WITHOUT ADAPTATION BY REMINGTON &
		VERNICK ENGINEERS AND A PURPOSE INTENDED WILL B WITHOUT LIABILITY OR LEG.	AFFILIATES FOR THE SPECIFIC E AT OWNERS SOLE RISK AND AL EXPOSURE TO REMINGTON
		SHALL INDEMNIFY AND HO VERNICK ENGINEERS AND A	ND AFFILIATES; AND OWNER LD HARMLESS REMINGTON & AFFILIATES FROM ALL CLAIMS, KPENSES ARISING OUT OF OR
			THEREFROM.
			Edit
			ATE I
			REVISION
			∥ <sub>S</sub> ∥
		IULES	PUBLIC WORK
		G SCHEDULES	LOGAN TOWNSHIP DEPARTMENT OF PUBLIC WORKS GARAGE EXTENSION - REBID - OGAN TOWNSHIP GLOUCESTER COUNTY NEW JERSEY
		PLUMBING	ISHIP DEF GARAG
		PLU	CHECKED BY: SCALE: AS NOTED SHEET No.: P-5.1
ISSUED F		DRAWN BY:     DESIGN BY:       M.P.     M.P.       DATE:     10/2021	CHECKED BY: SCALE: AS NOTED SHEET No.: P-5.1
DATE: 04-20	- EVEL	<u>JOB No. :</u> 0809T126	

# ELECTRICAL SYMBOLS

ELECTRIC	<u>CAL SYMBOLS</u>	
(ALL SYMBOLS	S MAY NOT BE USED ON THIS PROJECT)	Э
A	2'x4' LED LIGHT FIXTURE (A - INDICATES FIXTURE TYPE)	-[
	2'x4' EMERGENCY LED LIGHT FIXTURE (AE – INDICATES FIXTURE TYPE)	
	2'x2' LED LIGHT FIXTURE	
		Λ.
	2'x2' EMERGENCY LED LIGHT FIXTURE	Ľ
	5"x4' LED LIGHT FIXTURE	XX/X
	5"x4' EMERGENCY LED LIGHT FIXTURE	[
0	DOWNLIGHT LIGHT FIXTURE EMERGENCY DOWNLIGHT LIGHT FIXTURE	$\triangleright$
-	WALL MOUNTED LIGHT FIXTURE	$\triangleright$
HØ	WALL MOUNTED EMERGENCY LIGHT FIXTURE	
$\bigotimes$	EXIT SIGN (SHADED AREA INDICATES FACE) (ARROW INDICATES DIRECTION) (XW - WALL MOUNTED)	Þ
+ P	(XC – CEILING MOUTED) DUAL HEAD EMERGENCY BATTERY BACKUP	
	DUAL REMOTE HEADS	 F
-	SWITCH, SINGLE POLE TOGGLE	
s <sub>3</sub>	SWITCH, 3-WAY TOGGLE	\' 
c	SWITCH, 4-WAY TOGGLE	ļ
C	SWITCH, DIMMER	_`
C	SWITCH, KEY OPERATED	
<u> </u>	SWITCH, PILOT LIGHT	_`
C C	SWITCH, LOW VOLTAGE	<b>∳</b> -⊡
c	FRACTIONAL HP STARTER	Ϋ́ Ν
$\frown$	OCCUPANCY SENSOR - P - PASSIVE INFRARED	
U	U — ULTRASONIC D — DUAL TECHNOLOGY	L <u>Ĵ</u> E
₽-□	SITE LIGHT	ן ⊶∥ו
DLS	DAYLIGHT SENSOR	SPD
$\bigoplus$	RECEPTACLE, DUPLEX – (K – KEY LOCKING STEEL COVER) (S – SURGE PROTECTOR) (L – LOCKING COVER) (+ – MOUNT 8" A.F.F.) (T – TAMPER PROOF) (U – DUPLEX WITH USB PORT)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
$\oplus$	RECEPTACLE, QUAD	, N
$\square$	RECEPTACLE, SINGLE	∕ E
		/
	RECEPTACLE, GFI – (WP-WEATHERPROOF IN-USE COVER)	
Ŷ	RECEPTACLE, SPECIAL (NEMA CONFIGURATION INDICATED)	— c
ullet	RECEPTACLE, DUPLEX FLOOR MOUNT (POKE-THRU)	
$\oplus$	RECEPTACLE, CEILING	Γ
[ <b>\overline{P}]</b>	FLOOR BOX WITH (2) DUPLEX RECEPTACLES	υ γ
_	DUPLEX RECEPTACLE AND CATV RECEPTACLE	
J	JUNCTION BOX	\ [
J	JUNCTION BOX, FLOOR MOUNTED	
JT	JUNCTION BOX, TELEPHONE	-(
	JUNCTION BOX, DATA	7 Г
$\sim$	JUNCTION BOX, TELEPHONE/DATA	Ĺ
~	JUNCTION BOX, POWER	۲ ا
	ELECTRIC FLUSH VALVE TRANSFORMER JUNCTION BOX - ABOVE CEILIN	G
	LIGHTING/RECEPTACLE PANEL – SURFACE MOUNTED	(
	LIGHTING/RECEPTACLE PANEL - FLUSH MOUNTED	Ē
	EQUIPMENT CABINET OR PANEL - SURFACE MOUNTED	(S)
_	EQUIPMENT CABINET OR PANEL – FLUSH MOUNTED CIRCUIT BREAKER IN ENCLOSURE	FA
		R
_	CIRCUIT BREAKER LOW VOLTAGE DRAWOUT BREAKER	Ē
· //	MEDIUM VOLTAGE DRAWOUT BREAKER	Ξ
	DELTA CONFIGURATION	ک 
노	WYE CONFIGURATION	
	ELECTRICALLY INTERLOCKED	
	ELECTRIC UTILITY METER	(c
	MAIN DISTRIBUTION FRAME CURRENT TRANSFORMER	
r O	1. ALL ELECTRICAL EQUIPMENT REQUIREMENTS OF THE NATIO	ONAL E
$\leftarrow$	CURRENT TRANSFORMER 1.	

ж т

TRANSFORMER

-35-	POTENTIAL TRANSFORMER
	MV SWITCH GEAR
	GROUND ROD (10' x 3/4")
$\bigcirc$	MOTOR
□ ∕xx /xx	NON-FUSED DISCONNECT SWITCH - (XX/XX/XX - INDICATES AMPS/VOLTS/PHASE) 30A, 3P UNLESS OTHERWISE NOTED
$\Box$	FUSED DISCONNECT SWITCH
$\boxtimes_1$	COMBINATION STARTER/DISCONNECT SWITCH
$\boxtimes$	MAGNETIC STARTER
● <sub>K</sub>	KEY OPERATED CONTROL STATION
$\boxtimes_{c}$	MAGNETIC CONTACTOR
PC	PHOTOCELL
	TIME CLOCK SWITCH
R	RELAY
	HAND DRYER
<u> </u>	GROUNDING ELECTRODE
~	NON FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
<b>3{2-</b>	FUSED POTENTIAL TRANSFORMER
	AUTOMATIC TRANSFER SWITCH L – LOAD N – NORMAL POWER E – EMERGENCY POWER
_LA 	LIGHTNING ARRESTER
<b>⊢∕</b> _	SURGE PROTECTIVE DEVICE WITH DISCONNECT
MMM	HEAT TRACE CABLING
	EXPOSED RACEWAY
<u>``</u>	CONDUIT CONCEALED IN WALLS OR CEILING
NS	NON-SWITCHED CIRCUIT
EM	EMERGENCY CIRCUIT
	CONDUIT CONCEALED IN OR UNDER FLOOR OR UNDERGROUND HOMERUN – CIRCUIT & PANEL AS INDICATED
	(2#12 + 1#12G, 3/4°C, UNLESS OTHERWISE NOTED)
ст — -w—	CABLE TRAY SURFACE RACEWAY, WIREMOLD
F	FIRE ALARM PULL STATION
$\bigcirc$ <sup>30cd</sup>	
F V	FIRE ALARM STROBE LIGHT - (XXcd - CANDELA RATING)
	FIRE ALARM SPEAKER
Ĕ ⊖ <sup>30cd</sup>	FIRE ALARM/BELL
С- Д	COMBINATION FIRE ALARM SPEAKER/STROBE — (XXcd — CANDELA RATING)
L Ø	FIRE ALARM CODE BLUE
s S	PHOTO-ELECTRIC TYPE SMOKE DETECTOR
⊕ <sub>AC</sub>	HEAT DETECTOR (COMBINATION FT/RR U.O.N., AC-ABOVE CEILING.
Ψ.S	COMBINATION HEAT/SMOKE DETECTOR
<u> </u>	PHOTO-ELECTRIC TYPE DUCT SMOKE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
RAP	REMOTE ANNUNICATOR PANEL
FS	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH FIRE ALARM GONG
G-2 FAAP	FIRE ALARM GONG
	CARBON MONOXIDE TYPE DUCT DETECTOR
D CO	(WP - WEATHERPROOF)
	CARBON MONOXIDE DETECTOR

INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST ECTRICAL CODE, THE SPECIFICATIONS FOR GROUNDING, THE CONTRACT DRAWINGS, FEDERAL, STATE AND LOCAL CODES AND TO THE SATISFACTION OF THE ENGINEER. ALL GROUNDING CONNECTIONS TO BE MADE BY THE CADWELD PROCESS OR EQUAL. 2. ALL CONDUITS AND ELECTRICAL EQUIPMENT ARE SHOWN DIAGRAMMATICALLY AND MAY BE ALTERED TO SUIT FIELD CONDITIONS PENDING ENGINEER'S APPROVAL.

3. ALL PLANS ELEVATIONS AND CLEARANCES SHALL BE CHECKED IN THE FIELD PRIOR TO INSTALLATION TO AVOID ALL OBSTRUCTIONS.

4. ALL JUNCTION BOXES SHALL BE OF SUFFICIENT SIZE TO PROVIDE FREE SPACE FOR ALL CONDUCTORS ENCLOSED IN THE BOX AND SHALL BE SIZED WITH THE LATEST N.E.C. ARTICLE 314.

Image: Product Source protections         Sec.         Control Source Controls         Sec.         Controls         Sec.         Controls         Sec.			ABBREVIATI	ONS	FU.	FUSE/FUSED
Image: second process based proces based process based process based process based process						GENERAL CONTRACTOR GAGE/GAUGE
Implementation     Implementati			&	AND		
Construction		NITROGEN DIOXIDE DETECTOR	•C.	CENTIGRADE DEGREES	GFCI	GROUND FAULT CIRCUIT INTER
Image: Second	(C02)	CARBON DIOXIDE DETECTOR	1/C	SINGLE CONDUCTOR	GRD, GND., G	GROUND
Image: second constraints         I	<u> </u>		A.T.C.	AUTOMATIC TEMPERATURE CONTROL	H.I.D.	HIGH INTENSITY DISCHARGE
Image: Second participation of the	G	EMERGENCY GAS SHUTOFF			H.O.A. H.P.S.	
Image: Separation of the set of the s	$\frown$		AC	ALTERNATING CURRENT		HEXAGON
Image: Provide Protects Protocome         Provide Protocome         ProvideProt	B	EMERGENCY BOILER SHUTOFF	AF	AMPERE FRAME	HORIZ.	HORIZONTAL
Line         Head is a special with the special special with the special spec	$\frown$		AFCI	ARC FAULT CIRCUIT INTERRUPTER	HPF	HIGH POWER FACTOR
E         ELICIT INFY NO.         A-4		EMERGENCY ELECTRIC SHUTOFF				
Ex         Electronuc book look         Weight A Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied Applied App	K	REMOTE KEY PAD	AHU	AIR HANDLING UNIT		
Image: interface         March	[DL]	ELECTRONIC DOOR LOCK	AMP., A.	AMPERE	INC.	INCANDESCENT
BY         Key Yoo         Adv         Adv/ Adv         Adv/ A			ARCH.	ARCHITECTURAL		ISOLATED
PARC ALARY BUTTONBITCDITCDITCDITCDITCAPETUTCADON ALARY BUTTONBUCCHTYN LD CAMPABITCBITCBITCCARCARACYCARACYCARACYCORDC.C., CTCOLCARACYC.C., CTCOLCARACYCARACYCARACYCORDC.C., CTCOLCARACYC.C., CTCOLCARACYCARACYCARACYCARACYCARACYCORDC.C., CTCOLCARACYC.C., CTCOLCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACYCARACY <td></td> <td></td> <td></td> <td></td> <td>IS</td> <td>INTRINSICALLY SAFE</td>					IS	INTRINSICALLY SAFE
PARK ALKY BUTTONBRA ORBECARE BUTTONKind BUTTONMarch Button BUTTONPARK ALKY BUTTONBUTTONBUTTONBUTTONKind BUTTONBUTTONKind BUTTONBUTTON BUTTONKind BUTTONBUTTONBUTTON BUTTONBUTTONBUTTON BUTTONBUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTONBUTTON BUTTON BUTTONBUTTON BUTTON BUTTONBUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON BUTTON B		KEY FOB			IAKP	INTRUSION ALARM KEYPAD
SECURITY MOTION SERVER         SSM         EXEMPTION         KVMM         KVMM <t< td=""><td>Ð</td><td>PANIC ALARM BUTTON</td><td>BKR.</td><td>BREAKER</td><td></td><td>JUNCTION BOX THOUSAND AMPERES INTERRUI</td></t<>	Ð	PANIC ALARM BUTTON	BKR.	BREAKER		JUNCTION BOX THOUSAND AMPERES INTERRUI
(P72 - PAA, E.T. 2009)     C 0 U/DEJ     C 0 PU/DEJ     C		SECURITY/VIDEO CAMERA	BSMT.	BASEMENT	KVAR	KILOVAR
Image: Solution of the			C/C. C OF U/CFU		kW	KILOWATT
Construct     Cons	CR		C.T., CT	CURRENT TRANSFORMER	КWH	KILOWATT HOUR
LICENT Data       CLARK FET       LiC       LICENT Data       LiC       LiCENT Data       LiC       LiCENT Data       LiC       LiCENT Data			CCTV	CLOSED CIRCUIT TELEVISION	kV	KILOVOLT
IEI       REQUEST to ENT       C.G.       C.U.S.       C.U.S.       IE.       Class Feet feet feet feet feet feet feet feet		ELECTRONIC DOOR CONTACT				
Limit Notice Assessment     COAX.     COAX.ac. CAULE     Limit Link     Link Link Link       Emergence     DUAL CETY CAMERA ASSEMPLY W/ DOME     COME     COME     COMMIT     LINK     LINK       Come     COME     COME     COME     COME     COME     LINK     LINK       V     SEDURITY MOTION SENSOR     COME     COME     COME     COME     MARK     MARK       V     VOP DULE     COME     COME     COME     COME     MARK     MARK     MARK       É     DATA OUTLET     COME     COME     COME     MARK     MARK     MARK       É     DATA OUTLET     COME     COME     COME     MARK     MARK     MARK       É     DATA OUTLET     COME     COME     COME     MARK     MARK     MARK       É     DATA OUTLET     COME     COME     COME     MARK     MARK     MARK       É     DATA OUTLET     COME     COME     COME     MARK     MARK     MARK       É     DATA OUTLET     COME     COME     COME     MARK     MARK     MARK       É     DATA OUTLET     COME     COME     COME     MARK     MARK     MARK       É     DATA OUTLET     COME <td></td> <td></td> <td>CLG.</td> <td>CEILING</td> <td>LF.</td> <td>LINEAR FEET</td>			CLG.	CEILING	LF.	LINEAR FEET
Image: Second Control			COÁX.	COAXIAL CABLE	LRA	LOCKED ROTOR AMPERES
Control     Control     Control     Control     Main     LLG     MAIn     LLG     MAIn       Image: Security Mortion Sensors     Control     Control     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Control     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Control     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Main     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Main     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Main     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Main     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Main     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Main     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Main     Main     Main     Main     Main       Image: Security Mortion Sensors     Control     Main     Main     Main     Ma	_					
Image: Construct Motion Sensor     CONN     CONNECTED, CONNECTOR     MANUE, MEL     MANUE, MEL       ▼     VOP OUTLET     CONST.     CONNECTED, CONNECTOR     MANUE, MEL     MANUE REAGE       ↓     CONST.     CONST.     CONST.     CONNECTED, CONNECTOR     MANUE REAGE       ↓     CONST.     CONST.     CONST.     CONST.     MANUE REAGE       ↓     CONST.     CONST.     CONST.     CONST.     MANUE REAGE       ↓     CONST.     CONST.     CONST.     CONST.     MANUE REAGE       ↓     CONST.     CONST.     CONST.     MANUE REAGE     MANUE REAGE       ↓     CONST.     CONST.     CONST.     MANUE REAGE       ↓     CONST.     CONST.     MANUE REAGE     MANUE REAGE       ↓     MANUE REAGE     DE     DE     MANUE REAGE <tr< td=""><td></td><td></td><td></td><td></td><td>M.L.O.</td><td>MAIN LUGS ONLY</td></tr<>					M.L.O.	MAIN LUGS ONLY
VOP DUTLET         CONT.         CONTRACTOR         VAL 20/06         VAL 32/06         VAL 32/06           ©         DATA CUTLET - (\$ - \$ OF DROPS)         CORR.         COMPR.         COMP.         MAIN DETACH.         MAIN DETACH.         MAIN DETACH.         MAIN DETACH.         COMPR.         COMPR.         COMPR.         COMPR.         COMPR.         COMPR.         COMPR.         COMPR.         MAIN DETACH.         MAIN DETACH.         MAIN DETACH.         COMPR.         MAIN DETACH.         MAIN DETACH.         COMPR.         MAIN DETACH.         CO	$(\succ$	SECURITY MOTION SENSOR	CONN	CONNECTED, CONNECTOR	MANUF., MFR.	MANUFACTURER
Image: Structure     CONTRACTOR     Mocle / Mc De / Mc De / Mc De / Mc De / Mc Control Con			CONT.	CONTINUATION		
	•				M.C.B./MCB	MAIN CIRCUIT BREAKER
▼     COMBINATION VOP AND DATA OUTLET     Competension Unit     Order     Order     Order     Anal. Distribution Pancel       ▼     SOUND SYSTEM WALL PHONE     CU     CONCENSION UNIT     WECH     W	$\check{\nabla}$	DATA OUTLET (6 # OF DROPS)	CORR.	CORRIDOR	MCM	THOUSAND CIRCULAR MILLS
V     SOUND SYSTEM WALL PHONE     CU. FT.     CUBIC FEET     WET.     WETALLC       V     SOUND SYSTEM WALL PHONE     D     DPTH     MG     MARTENANCE FACTOR       V     D     DPTH     MG     MGC CENERATOR       V     DA     DEMAND     MM.     MM.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M			Cu	COPPER		
V     SOUND SYSTEM WALL PHONE     CW     CLOCKMPSE     MR     MAINTENANCE FACTOR       V     DEM     DEM     DEM     MASS NOTHICATION SPEAKER     DEM     MMN     MMN     MMNC     MISC     MSC	•	COMDITATION VOIL AND DATA COTLET	CU. FT.	CUBIC FEET		
S     DEM     DEMADD     DEMADD     DEMADD     DEMADD       S     DEMADD     DEMADD     DEMADD     DEMADD       S     SPEAKER - CELLANEOUS     DISC.     DISC.     DISC.     DISC.     DISC.       S     SPEAKER - CELLING MOUNTED     DV.     DIVISION     MTG.     MOUNTING       S     SPEAKER - WALL MOUNTED     DPST     DOWN     N     N     NEUTRAL       S     SPEAKER - WALL MOUNTED     DPST     DOWN     DOWN     N     N     NEUTRAL       S     SPEAKER - WALL MOUNTED     DPST     DOWN     DOWN     N     N     NEUTRAL       S     SPEAKER - WALL MOUNTED     EF., EF     EXAL PARANCE CONTRACTOR     NEW AND ALECTRICAL MAN       S     CLOCK/SPEAKER - WALL MOUNTED     EF., EF     EXAL PARANCE PARANCE     NO.     NOTINCAL ELECTRICAL MAN       S     SOUND VOLUME CONTROL     EF., EF     EVALUATE FAN     N.L.C./NIC     NO.     NONTROCT       S     SOUND VOLUME CONTROL     EF.R.     ELECTRICAL HEAT TRACING CABLE     N.S.     NIT NOT ICACLE       S     SOUND VOLUME CONTROL     EF.R.     ELECTRICAL HEAT TRACING CABLE     N.S.     N.S. /NIT NOT ICACLE       S     SOUND VOLUME CONTROL     EF.R.     ELECTRICAL HEAT TRACING CABLE     N.S.	$\vee$	SOUND SYSTEM WALL PHONE		CLOCKWISE DEPTH	MF	MAINTENANCE FACTOR
S     SPEAKER - CELLING MOUNTED     Disc.     Disc.     Disc.     Disc.     MID.     MOUNTED       S     SPEAKER - WALL MOUNTED     DN     DN     DOWN     NTC.     MOUNTED     N     NORMAL CLOSED       S     SPEAKER - WALL MOUNTED     DR.W., DWC.     DR.W., DWC.     DR.W.     N     NORMAL CLOSED       S     CLOCK/SPEAKER - WALL MOUNTED     EF., EF     ET. MICH.     ELECTRICAL CONTRACTOR     NEC/N.E.C.     NATIONAL ELECTRICAL CONTRACTOR       W     MICROPHONE     EF., EF     ET. MICH.     ELECTRICAL FATT     N.I.C./NIC     NORMAL CLOSED       W     MICROPHONE     EF., EF     ET. MICH.     ELECTRICAL FATT     N.I.C./NIC     NOT CONTRACT       SOUND VOLUME CONTROL     EA.     EA.     EA.     EA.     NIC.     NICT.     NICT.       SOUND VOLUME CONTROL     EA.     EA.     EA.     EA.     NIC.     NICT.     NICT.     NICT.       INTERCOM     INTERCOM     ELEC.     ELECTRICAL HEAT TRACING CABLE     N.F.     NICH TICHT.     NICH.     NICH.     NICH.     NICH.     NICH.     NICH.     NICH.     NICH.     CONTRACT.     NICH.     NICH. <t< td=""><td><math>\sum</math></td><td></td><td>DEM</td><td>DEMAND</td><td>MIN.</td><td>MINIMUM</td></t<>	$\sum$		DEM	DEMAND	MIN.	MINIMUM
S     SPEAKER - CEILING MOUNTED     DIV.     DOWN     MTG.     MOUNTING       S     SPEAKER - WALL MOUNTED     DPST     DOWN     NR.     MEDITAL       S     SPEAKER - WALL MOUNTED     DPST     DOWN     NR.     NEC/NE.C     NREC/NE.C       S     CLOCK/SPEAKER - WALL MOUNTED     EF., EF.     EF.     EF.     EF.     EF.     NREC/NE.C     NOT IN CONTRACT       S     MICROPHONE     E.R.     ET.     FF.     EXAMPS     NN.     NILC/NIC     NILC/NIC       S     SOUND VOLUME CONTROL     E.R.     ET.     ET.     CONTRACT     NN.     NICA       S     SOUND VOLUME CONTROL     E.K.     EACH     EACH     NICA     NICA     NICA       S     SOUND VOLUME CONTROL     ELEC.     CLO.     ELEC/LEC     ELEC.     NICA     NICA     NICA       S     SOUND VOLUME CONTROL     ELEC.     ELEC.     ELEC.     ELEC.     NICA     NICA     NICA     NICA       S     SOUND VOLUME CONTROL     ELEC.     ELEC.     ELEC.     ELEC.     NICA     NICA     NICA     NICA       S     SOUND VOLUME CONTROL     ELEC.     ELEC.     ELEC.     ELEC.     NICA     NICA     NICA     NICA       S	S	MASS NUTIFICATION SPEAKER	DISC.	DISCONNECT SWITCH		
Image: Speaker - wall mounted     DPS1     Double POLE Single IHROW     NC     NORMAL CLOSED       Image: Speaker - wall mounted     DRAW, DW     DRAW, DW     DRAW, DW     DRAW, DW     NC     NC     NORMAL CLOSED       Image: Speaker - wall mounted     E.F., EF     EXAM, DW     E.F., EF     EXAM, DW     NI.C./NC     NORMAL ELECTRICAL MAN       Image: Speaker - wall mounted     E.F., EF     EXAM, DW     EXAM, DW     NI.C./NC     NORMAL ELECTRICAL MAN       Image: Speaker - wall mounted     E.F., EF     EXAM, DW     EXAM, DW     NI.C./NC     NORMAL ELECTRICAL MAN       Image: Speaker - wall mounted     E.F., EF     EXAM, DW     Example     NO.     NORMAL' OPEN       Image: Sound volume control.     EA     EACH     EACH WAY     N.T.S./NTS     NOT TO SCALE       Image: Sound volume control.     EA     EACH     EaCH WAY     N.T.S./NTS     NOT TO SCALE       Image: Sound volume control.     EA     ELEC/ELCT.     ELECTRICAL COST     P     P       Image: Sound volume control.     EA     ELEC/ELCT.     ELECTRICAL COST     P     P       Image: Sound volume control.     EA     ELEC/ELCT.     ELECTRICAL COST     P     P       Image: Sound volume control.     ELE/ELE/ELCT.     ELECTRICAL COST     P     P <t< td=""><td>S</td><td>SPEAKER - CEILING MOUNTED</td><td></td><td>DOWN</td><td></td><td></td></t<>	S	SPEAKER - CEILING MOUNTED		DOWN		
Image: Product of the second seco	S	SPEAKER – WALL MOUNTED		DOUBLE POLE SINGLE THROW	NC	NORMAL CLOSED
YY       CLOCK/ SPEARCR WALL WOUND       E.H.       ELECTRIC HEATER       NO       NORMALY OPEN         W       MICROPHONE       E.P.R.       ETHURENE PROPYLENE RUBBER       NO. #       NUMBER         SV       SOUND VOLUME CONTROL       E.A.       EACH       NI.S./NTS       NOT SCALE         IV       SOUND VOLUME CONTROL       E.H.       ELCTRICAL HEAT TRACING CABLE       N.F.       NORT LIGHT CIRCUT         IV       INTERCOM       ELEC./CLECT.       ELECTRICAL HEAT TRACING CABLE       N.F.       NORT LIGHT CIRCUT         IV       INTERCOM       ELEC./CLECT.       ELECTRICAL COST       POLE       POLE         IV       CLOCK/SPEAKER BAFFLE       ELEC./FLECT.       ELEC./FLECT       PLLC.       PAPER INSULATED LEAD C         IV       HORN LOUDSPEAKER (WP - WEATHERPROOF)       EMT       ELECTRICAL METALIC TUBING       PNL       PANELBOARD         IV/       HORN LOUDSPEAKER (WP - WEATHERPROOF)       ENCL       ENCL       ENCL       ENCL       PORC       PORC         IV/       HORN LOUDSPEAKER (WP - WEATHERPROOF)       ENCL       ENCL       ENCL       ENCL       PORC       PORC       PORC         IV/       HORN LOUDSPEAKER (WF - WEATHERPROOF)       ENCL       ENCL       ENCL       ENCL			E.C.	ELECTRICAL CONTRACTOR	NEMA	NATIONAL ELECTRICAL MANUE
WICROPHONEEPR.ETHYLENE PROPYLENE RUBBERNo., #NUMBERSOUND VOLUME CONTROLE.W.EA.EACHN.T.S./NTSNOT TO SCALEINTERCOMELEC. CLO.ELECTRICAL LEAT TRACING CABLEN.F.NOR TO SCALEINTERCOMELEC. CLO.ELECTRICAL CLOSETPPOLEINTERCOMELEC. CLO.ELECTRICAL CLOSETPPOLEINTERCOMELEC. CLECT.ELECTRICAPOREPARE INSULATED LEAD CINTERCOMELEC. CLECT.ELECTRICAPOREPARE INSULATED LEAD CINTERCOMELEC. CLECT.ELECTRICAL METALLIC TUBINGPNLPARE INSULATED LEAD CINTERCOMENT.ENT.ENT.ENT.POREINTERCOMENT.ENT.ENT.ENT.POREINTERCOMENT.ENT.ENT.ENT.POREINTERCOMENT.ENT.ENT.ENT.POREINT.COXENT.ENT.ENT.ENT.POREINT.ENT.ENT.ENT.ENT.ENT.POREINT.COXENT.ENT.ENT.ENT.ENT.POREINT.COXENT.ENT.ENT.ENT.ENT.ENT.ENT.INT.ENT.ENT.ENT.ENT.ENT.ENT.ENT.ENT.INT.ENT.ENT.ENT.ENT.ENT.ENT.ENT.ENT.INT.ENT.ENT.ENT.ENT.ENT.ENT.ENT. <t< td=""><td>SU</td><td>CLOCK/SPEAKER - WALL MOUNTED</td><td>E.H.</td><td>ELECTRIC HEATER</td><td></td><td></td></t<>	SU	CLOCK/SPEAKER - WALL MOUNTED	E.H.	ELECTRIC HEATER		
SU     SOUND VOLUME CONTROL     EA.     EACH     INTERTON     NUMET LIGHT CIRCUT       Image: Sound Volume Control     EH.     ELECTRICAL HEAT TRACING CABLE     NL     NUMET LIGHT CIRCUT       Image: Sound Volume Control     ELEC./ELECT.     ELECTRICAL CLOSET     P     POL       Image: Sound Volume Control     ELEC./ELECT.     ELECTRICAL CLOSET     P     POL       Image: Sound Volume Control     ELEC./ELECT.     ELECTRICAL PACK COMPLETE     PB. P     POLL BOX, BREAKER OR S       Image: Sound Volume Control     ELEC./ELECT.     ELECATION/FLEVATOR     PIL.C.     PARENT PACK COMPLETE     PB. P       Image: Sound Volume Control     ENT     ELECATION/FLEVATOR     PIL.     POLL BOX, BREAKER OR S       Image: Sound Volume Control     ENT     ELECATION     ENT     ENT     ENT       Image: Sound Volume Control     ENT     ENT     ENT     ENT     PORC     PORC       Image: Sound Volume Control     ENT     ENT     ENT     ENT     ENT     ENT       Image: Sound Volume Control     ENT     ENT     ENT     ENT     POR     POR       Image: Sound Volume Control     ENT     ENT     ENT     ENT     ENT     ENT       Image: Sound Volume Control     ENT     ENT     ENT     ENT     ENT	M	MICROPHONE			No., # N T S /NTS	NUMBER
Intercom     ELEC, CLO,     ELECTRICAL CLOSET     POLE       CLOCK/SPEAKER BAFFLE     ELEC/ELECT.     ELECTRICAL CLOSET     PC     POLE       CLOCK/SPEAKER BAFFLE     ELEC/ELECT.     ELECTRICAL CLOSET     PC     POLE       W     HORN LOUDSPEAKER (WP - WEATHERPROOF)     ELEC.     ELECALOSURE     PDL     PARCBORDA       W     HORN LOUDSPEAKER (WP - WEATHERPROOF)     ENCL.     ENT     ELECATRICAL METALLIC TUBING     PDN.     PARLBOADD       W     W     WALL MOUNTED CLOCK     ENT.     ENT.     ENTRANCE     POE     POWER OVER ETHERNET       W     WALL MOUNTED CLOCK     EOUIP.     EOUIP.     EOUIP.     EOUIP.     POLE OVER OVER ETHERNET       W     MOTOR STARTER WITH     EX./E     EXT.     ESTING TO BE DEMOLISHED     F.A.     FIRE ALARM     RAP       W     INDICATES EXISTING TO BE DEMOLISHED     F.A.     FIRE ALARM     CONTROL PAREL     REC       W     DENOTES POINT OF CONNECTION     F.E.     FIRE ALARM     REMORE OPTIC     REV.     REVIFICAULES       W     EQUIPMENT DESIGNATION TAG     FIG.     FIGURE     REV.     REVERENT RECENT.     REV.       W     EQUIPMENT DESIGNATION TAG     FIG.     FIGURE OPTIC     REGS     RGS     RIOD RECOURNCY       W     EQUIPMEN	SV	SOUND VOLUME CONTROL	EA.	EACH	NL	NIGHT LIGHT CIRCUT
CLOCK/SPEAKER BAFFLE       ELEV./EL.       ELEV.ATION/ELEVATOR       P.L.C.       PAPOTOCILIE         W       EMERGENCY POWER PACK COMPLETE       PB, P       PULL BOX, BREAKER OR S         W       EMERGENCY POWER PACK COMPLETE       PB, P       PULL BOX, BREAKER OR S         W       EMERGENCY POWER PACK COMPLETE       PB, P       PULL BOX, BREAKER OR S         W       EMT       ELEVATION/ELEVATOR       PORC.       PORCELAIN         W       EMT       ELEVATION/ELEVATOR       PNL       PANLEDGARD         W       EMT       ELEVATION/ELEVATOR       PORC.       PORCELAIN         W       ENT.       ENT.       ENT.ANOLE       PORC       PORCE AND         WOTOR STARTER WTH       EX./E       EXISTING       PVC       POLVINYLCHLORIDE         HARMAL OVERLOAD RELAY       EX./E       EXISTING       RAP       REMOTE ANNUAL/AND PAIL         W       INDICATES EXISTING TO BE DEMOLISHED       F.A.       FIRE ALARM       REBAR.       RCINFORCINO BAR         M       EQUIPMENT DESIGNATION TAG       FIN.       FIRE ALARM CONTROL PANEL       RECOT       RECOTA CONTROL PANEL         W       DENOTES POINT OF CONNECTION       F.C.       FIRE ALARM       REBAR.       RCINFORCINO BAR         X			ELEC. CLO.	ELECTRICAL CLOSET		
Image: Problem in the second			ELEV. /EL.		PC P.LL.C.	
HORN LOUDSPEAKER (WP - WEATHERPROOF)ENCL.ENCL.ENCL.ENCL.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.PORC.<				EMERGENCY POWER PACK COMPLETE ELECTRICAL METALLIC TUBING	PB, P	PULL BOX, BREAKER OR SWIT
Image: Construction     EMERG.     EMERG.     EMERG.     EMERG.     EMERG.     EMERG.     EMERG.     EMERG.     EMERG.     POWER OVER ETHERNET       Image: Construction     EST.     EST.     EST.     EST.     EST.     POWER OVER ETHERNET       Image: Construction     FLA     EX./E     EST.     EST.     EST.     POWER OVER ETHERNET       Image: Construction     FLA     EX./E     EST.     EST.     EST.     POWER OVER ETHERNET       Image: Construction     FLA     EST.     EST.     EST.     EST.     POWER OVER ETHERNET       Image: Construction     FLA     EST.     EST.     EST.     EST.     POWER OVER ETHERNET       Image: Construction     FLA     EST.     EST.     EST.     EST.     EST.     POWER OVER ETHERNET       Image: Construction     FLA     EST.     EST.     EST.     EST.     EST.     EST.     EST.     POWER OVER ETHERNET       Image: Construction     FLA     FLA     ENCP     PORTOR     REC.     REMOTE CONTROL SMITCH       Image: Construction     FLA     FLE     FIRE ALARM     REC.     RECEPT ACLES     RECEPT ACLES       Image: Construction     FLA     FLA     FIRE ALARM     RECEPT ACLES     RECOPT ACLES     REC.		HORN LOUDSPEAKER (WP - WEATHERPROOF)	ENCL.	ENCLOSURE	PORC.	PORCELAIN
Image: Construct and the construction of the constructing of the const			EMERG.	EMERGENCY		
Image: Motor starter with thermal overload relayEX./EEXITING EXTERNAL/EXTERIORRRADIUSImage: Motor starter with thermal overload relayEXT.EXTERNAL/EXTERIORRADREMOTE ANNUNCIATOR PAIImage: Motor starter with thermal overload relayEXT.EXTERNAL/EXTERIORR.C.SW.REMOTE ANNUNCIATOR PAIImage: Motor starter with thermal overload relayEXT.EXTERNAL/EXTERIORR.C.SW.REMOTE ANNUNCIATOR PAIImage: Motor starter with thermal overload relayF.A.FIRE ALARMCONTROL PANELREC.RECSED, RECEPTACLEImage: Motor starter with thermal overload relayF.A.FIRE ALARM CONTROL PANELREC.RECSED, RECEPTACLEImage: Motor starter with thermal overload relayF.A.FIRE EXTINGUISHERRECPT.RECEPTACLESImage: Motor starter with thermal overload relayF.C.FIRE EXTINGUISHERRECPT.RECEPTS.RECUEPTACLESImage: Motor starter with thermal overload relayF.O.FIBER OPTICRECPT.RECUEPT.RECUEPTACLESImage: Motor starter with thermal overload relayFDN.FOUNDATIONREV.REV.REV.REVISE/REVISIONImage: Motor starter with thermal overload relayFDN.FIGUREFIGURERFRADIO FREQUENCYImage: Motor starter with thermal overload relayFIR.FIGURERGSRIGID GALVANIZED STEEL OVERCYImage: Motor starter with thermal overload relayFLAFLUAD AMPERESRM.ROMImage: Motor starter temperature deviceFLAFLUACFLEXIBLERTRO	Ŷ	WALL MOUNTED CLOCK				
INDICATES EXISTING TO BE DEMOLISHED       E.O.       ELECTRICALLY OPERATED       R.C.SW.       REMOTE CONTROL SWICH         INDICATES EXISTING TO BE DEMOLISHED       F.A.       FIRE ALARM       REBAR.       REINFORCING BAR         INDICATES POINT OF CONNECTION       F.A.       FIRE ALARM CONTROL PANEL       RC.C.       RECEPTACLE         INDICATES POINT OF CONNECTION       F.O.       FIRE EXTINGUISHER       RECEPT.       RECEPTACLES         INDICATES POINT OF CONNECTION       F.O.       FIBER OPTIC       REQ'D       REQUIRED         INDICATES POINT OF CONNECTION       F.O.       FIBER OPTIC       REQ'D       REQUIRED         INDICATES POINT OF CONNECTION       F.O.       FIBER OPTIC       REQ'D       REQUIRED         INDICATES POINT OF CONNECTION       F.O.       FIBER OPTIC       REQ'D       REQUIRED         INDICATES STING TO NEW       F.O.       FIBER OPTIC       REQ'D       REQUIRED         INDICATES STING TO NEW       FIG.       FIGURE       REV.       REVSE/REVISION         INDICATES STING TO NEW       FIG.       FIGURE       REGOR       RGS       RIGID GALVANIZED STEEL OF         INDICATES STOR TEMPERATURE DEVICE       FIL.       FLUOR       RGS       RIGID GALVANIZED STEEL OF         INDICATES STOR TEMPERATURE DEVICE       FL					R	RADIUS
DENOTES POINT OF CONNECTION       F.E.       FIRE EXTINGUISHER       REC.       RECEPT.       RECEPT.CLES         OF EXISTING TO NEW       F.O.       FIBER OPTIC       REQ'D       REQUIRED         XX       EQUIPMENT DESIGNATION TAG       FIG.       FIGURE       RF       RADIO FREQUENCY         XX       EQUIPMENT DESIGNATION TAG       FIN.       FINISH/FINISHED       RGA       REMOTE GENERATOR ANNU         Y       SITE LIGHTING (MUSCO LIGHTING SYSTEM)       FL.       FLOOR       RGS       RIGID GALVANIZED STEEL OF         V//       RESISTOR TEMPERATURE DEVICE       FLEX.       FLEX.       FLEXIBLE LIQUIDTIGHT METALLIC CONDUIT       S.F.       SQUARE FEET         FLUOR.       FLUOR.       FLUORESCENT       S.S.       STAINLESS STEEL         FC       FOOTCANDLE       SEC.       SECONDARY			E.O.	ELECTRICALLY OPERATED	R.C.SW.	REMOTE CONTROL SWITCH
DENOTES POINT OF CONNECTION       F.E.       FIRE EXTINGUISHER       RECEPT.       RECEPT.       RECEPTACLES         OF EXISTING TO NEW       F.O.       FIBER OPTIC       REQ'D       REQUIRED         XX       EQUIPMENT DESIGNATION TAG       FID.       FOUNDATION       REV.       REVISE/REVUSION         XX       EQUIPMENT DESIGNATION TAG       FIN.       FINISH/FINISHED       RGA       REMOTE GENERATOR ANNU         X       SITE LIGHTING (MUSCO LIGHTING SYSTEM)       FL.       FLOOR       RGS       RIGID METAL CONDUIT         V       RESISTOR TEMPERATURE DEVICE       FLEX.       FLEXIBLE       RM.       ROOM         V       RESISTOR TEMPERATURE DEVICE       FLEX.       FLEXIBLE       RT       ROOFTOP         FLUOR.       FLUOR.       FLUORESCENT       S.S.       STAINLESS STEEL         FC       FOOTCANDLE       SEC.       SECONDARY         FT       FAULT TRIP       SECT.       SECTION	×/A	INDICATES EXISTING TO BE DEMOLISHED	FACP	FIRE ALARM CONTROL PANEL		
OF EXISTING TO NEW       FDN.       FOUNDATION       REV.       REVISE/REVISION         XX       EQUIPMENT DESIGNATION TAG       FIG.       FIGURE       RF       RADIO FREQUENCY         X       EQUIPMENT DESIGNATION TAG       FIN.       FIN.SH/FINISHED       RGA       REMOTE GENERATOR ANNU         X       SITE LIGHTING (MUSCO LIGHTING SYSTEM)       FL.       FLOOR       RGS       RIGID GALVANIZED STEEL OF         V       RESISTOR TEMPERATURE DEVICE       FLA       FULL LOAD AMPERES       RM.       ROOM         V       RESISTOR TEMPERATURE DEVICE       FLEX.       FLEXIBLE LIQUIDTIGHT METALLIC CONDUIT       S.F.       SQUARE FEET         FLUOR.       FLUOR.       FLUORESCENT       S.S.       STAINLESS STEEL         FC       FOOTCANDLE       SEC.       SECONDARY         FT       FAULT TRIP       SECT.       SECTION	$\frown$				RECEPT.	RECEPTACLES
XX       EQUIPMENT DESIGNATION TAG       FIN.       FINISH/FINISHED       RGA       REMOTE GENERATOR ANNU         X       EQUIPMENT DESIGNATION TAG       FIN.       FINISH/FINISHED       RGA       REMOTE GENERATOR ANNU         FIXT.       FIXT.       FIXTURE       RGS       RIGID GALVANIZED STEEL OF         V       SITE LIGHTING (MUSCO LIGHTING SYSTEM)       FL.       FLOOR       RGS       RIGID METAL CONDUIT         V       RESISTOR TEMPERATURE DEVICE       FLEX.       FLEX.       FLEXIBLE       RT       ROOFTOP         FLUOR.       FLUOR.       FLUORESCENT       S.S.       STAINLESS STEEL         FC       FOOTCANDLE       SEC.       SECONDARY         FT       FAULT TRIP       SECT.       SECTION		OF EXISTING TO NEW	FDN.	FOUNDATION	REV.	REVISE/REVISION
FIXT.       FIXTURE       RGS       RIGID GALVANIZED STEEL (CONDUIT         SITE LIGHTING (MUSCO LIGHTING SYSTEM)       FL.       FLOOR       RGS       RIGID METAL CONDUIT         FLA       FULL LOAD AMPERES       RM.       ROOM         RESISTOR TEMPERATURE DEVICE       FLEX.       FLEXIBLE       RT       ROOFTOP         FLUOR.       FLUOR.       FLUORESCENT       S.S.       STAINLESS STEEL         FC       FOOTCANDLE       SEC.       SECONDARY         FT       FAULT TRIP       SECT.       SECTION	XX	EQUIPMENT DESIGNATION TAG	FIN.	FINISH/FINISHED		RADIO FREQUENCY REMOTE GENERATOR ANNUNCI.
Image: Stree Lighting (MOSCO Lighting STSTEM)       FLA       FULL LOAD AMPERES       RM.       ROOM         Image: Resistor TEMPERATURE DEVICE       FLEX.       FLEXIBLE       RT       ROOFTOP         Image: FLUOR.       FLUORESCENT       S.S.       STAINLESS STEEL         Image: FLUOR.       FOUTCANDLE       SEC.       SECONDARY         Image: FLUOR       FL       FLUT TRIP       SECT.       SECTION					RGS	RIGID GALVANIZED STEEL CON
F.L.M.C. FLEXIBLE LIQUIDTIGHT METALLIC CONDUIT S.F. SQUARE FEET FLUOR. FLUORESCENT S.S. STAINLESS STEEL FC FOOTCANDLE SEC. SECONDARY FT FAULT TRIP SECT. SECTION	-		FLA	FULL LOAD AMPERES	RM.	ROOM
FLUOR. FLUORESCENT S.S. STAINLESS STEEL FC FOOTCANDLE SEC. SECONDARY FT FAULT TRIP SECT. SECTION	$\sim$	RESISTOR TEMPERATURE DEVICE	F.L.M.C.	FLEXIBLE LIQUIDTIGHT METALLIC CONDUIT		
FT FAULT TRIP SECT. SECTION			FC	FOOTCANDLE	S.S.	STAINLESS STEEL
			FT	FAULT TRIP	SECT.	SECTION
E ALL DIMENSIONS ARE ARRONOVIMATE AND MUST RE VERIFIED IN THE FIELD BY THE CONTRACTOR SERV. SERVICE	F	L DIMENSIONS ARE ARRAYING TO MUST SEVER				
5. ALL DIMENSIONS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR. 6. CONTRACTOR SHALL CHECK FOR OBSTRUCTIONS AND CLEAN OUT ALL CONDUITS PRIOR TO PULLING IN CABLES. 7. DUASING OF ALL ELECTRICAL CONTRACTOR SHALL OF THE DESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL CONTRACTOR SHALL COORDINATE THE	5. AL 6. CC	ONTRACTOR SHALL CHECK FOR OBSTRUCTIONS AND CL	EAN OUT ALL CONDUITS F	PRIOR TO PULLING IN CABLES.	SHT.	SHEET

6. CONTRACTOR SHALL CHECK FOR OBSTRUCTIONS AND CLEAN OUT ALL CONDUITS PRIOR TO PULLING IN CABLES. 7. PHASING OF ALL ELECTRICAL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE MADE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY REQUIREMENTS. - ABOVE CEILING.) 8. ALL HOLES THROUGH STRUCTURE TO ACCOMMODATE ELECTRICAL CONDUITS SHALL BE CORE DRILLED AND SEALED WITH

NON-SHRINK GROUTING COMPOUND. WHERE RACEWAYS PASS THROUGH FLOORS AND FIRE RATED WALLS AND/OR PARTITIONS, CONTRACTOR SHALL FURNISH UL RATED FIREPROOFING MATERIAL TO BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND RESTORE ORIGINAL FIRE RATING. 9. THE CONTRACTOR SHALL FURNISH STRUCTURAL SUPPORT FOR ALL EQUIPMENT. FOR SURFACE MOUNTED EQUIPMENT, SUCH

AS PANELBOARDS, STARTERS, SAFETY SWITCHES AND THE LIKE, PROVIDE "UNISTRUT" WITH CORROSION RESISTANT MOUNTING HARDWARE. 10. NO CONDUIT SMALLER THAN 3/4" SHALL BE USED UNLESS OTHERWISE SPECIFIED.

11. ALL JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH A LITHIUM BASED THREAD LUBRICANT.

12. RACEWAYS SHALL BE PROVIDED WITH AN APPROVED EXPANSION-DEFLECTION FITTINGS WHERE CROSSING BUILDING CONSTRUCTION EXPANSION JOINTS AND WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. 13. FURNISH AND INSTALL CONCRETE PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.

14. PRIOR TO SUBMITTING PROPOSALS, BIDDERS ARE INSTRUCTED TO REVIEW PLANS AND SPECIFICATIONS OF ALL CONCURRENT WORK TO DETERMINE QUANTITIES OF LABOR AND MATERIAL NECESSARY TO INSTALL, CONNECT, AND TEST MATERIAL FURNISHED UNDER THESE SPECIFICATIONS. ANY ADDITIONAL LABOR AND MATERIAL REQUIRED DUE TO FAILURE OF THE

CONTRACTOR TO FOLLOW THESE INSTRUCTIONS, SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER. 15. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER CONTRACTORS EMPLOYED ON THIS PROJECT PRIOR TO ROUGHING IN. THE CONTRACTOR SHALL OBTAIN AND REVIEW APPROVED SHOP DRAWINGS OF ALL OTHER TRADES AFFECTING ALL ELECTRICAL WORK.

16. THE CONTRACTOR SHALL CHECK AND TORQUE TIGHTEN ALL CONNECTIONS, WHETHER FACTORY MADE OR MADE UNDER THIS CONTRACT, USING ACCURATELY CALIBRATED TOOLS. TORQUE SETTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC RECOMMENDATIONS. 17. INSTALL AN 1/8" INCH POLY PROPYLENE (PULL STRING) IN ALL SPARE CONDUITS.

18. INSULATED COPPER CONDUCTORS FOR EQUIPMENT GROUNDING SHALL BE ROUTED WITH ALL POWER CONDUCTORS. 19. CONDUCTORS USED FOR CONTROL WIRING SHALL BE AT LEAST #14AWG AND ALL POWER CONDUCTORS SHALL BE AT LEAST #12AWG UNLESS OTHERWISE SPECIFIED.

20. CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY EQUIPMENT AND EXERCISE PRECAUTIONARY PROCEDURES WHEN WORKING WITH OR NEAR ENERGIZED EQUIPMENT. 21. CONTRACTOR SHALL REMOVE ALL OBSOLETE EQUIPMENT, CONDUITS AND WIRING, EXCEPT WHERE OTHERWISE NOTED.

22. INTERRUPTION OF SERVICE SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER AND HELD TO MINIMUM IN ORDER TO MAINTAIN THE PROPER OPERATION OF THE FACILITY. 23. WHEN CONDUIT OR CABLE RUNS FOR POWER AND LIGHTING EXCEED 60FT. FOR 120VOLT OR 120FT. FOR 277VOLT TO CENTER

OF LOAD, #10AWG WIRE OR LARGER SHALL BE USED AS REQUIRED FOR A MAXIMUM 3% VOLTAGE DROP AT FULL CIRCUIT CAPACITY. 24. HEAVIER LINE WEIGHT SYMBOLS AND TEXT INDICATE NEW WORK UNLESS OTHERWISE NOTED. LIGHT LINE WEIGHT SYMBOLS AND

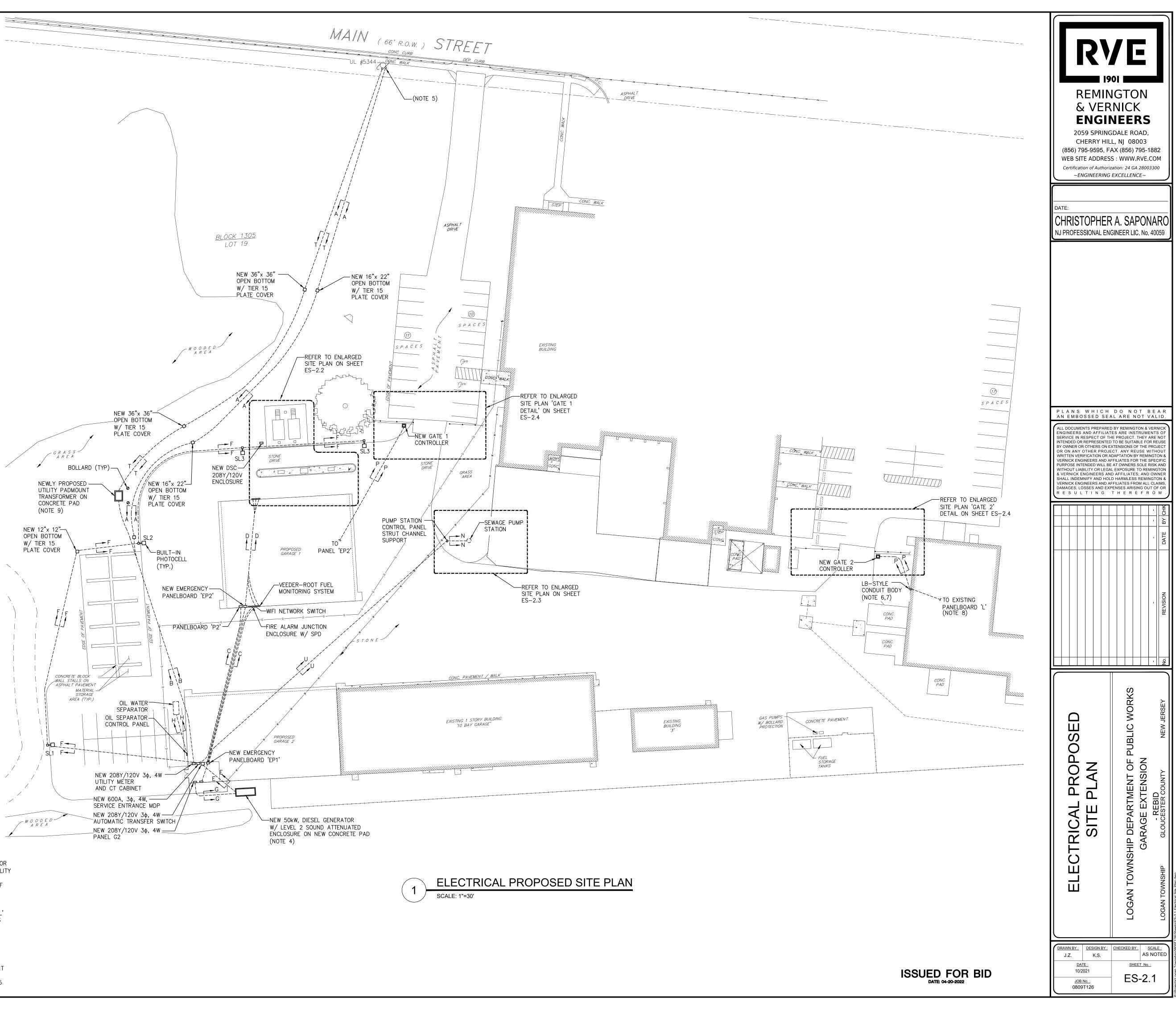
ITALICIZED TEXT INDICATE EXISTING CONDITIONS TO REMAIN UNLESS OTHERWISE NOTED. 25. CONTRACTOR SHALL SALVAGE ALL DEMOLISHED EQUIPMENT AND VERIFY WITH OWNER PRIOR TO DISPOSING OF THE DEMOLISHED EQUIPMENT.

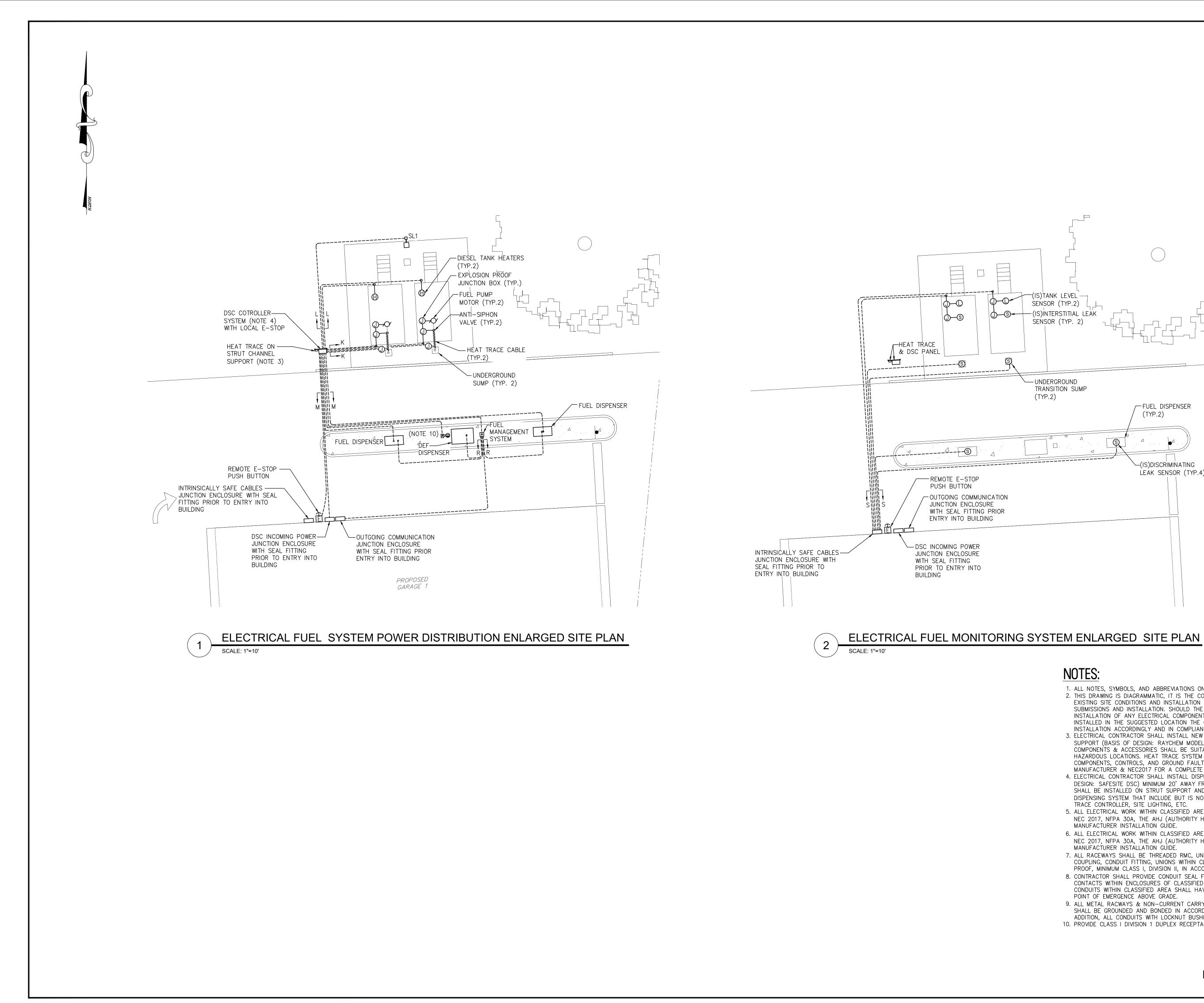
CONDUIT STEEL 26. CONTRACTOR SHALL COORDINATE THE

WITH SURVEILLANCE, COMMUNICATIONS, 27. THE CONTRACTOR SHALL PROVIDE A TH BUILDING CONDITIONS. WHERE EXISTING NEW WORK PLANNED, THE CONTRACTOR INCLUDE ANY AND ALL ALTERATIONS, I CONDITIONS TO ACCOMMODATE THE NEW

ISED SIG.	SIGNAL	TRANS./XFMR TRANSFORMER	
CONTRACTOR SK. UGE SN ED SPECS.	SIGNAL SKETCH SOLID NEUTRAL SPECIFICATIONS	TYP. TYPICAL U.O.N. UNLESS OTHERWISE NOTED UH UNIT HEATER	
DR SPD FAULT CIRCUIT INTERRUPTER SQ. FAULT INTERRUPTER SSRV	SPECIFICATIONS SURGE PROTECTIVE DEVICE SQUARE SOLID STATE REDUCED	UL UNDERWRITING LABORATORIES UPS UNINTERRUPTIBLE POWER SOUL V VOLTAGE, VOLTS	
DR TRANSFER DEVICE STA.	VOLTAGE STARTER STATION	VD VOLTAGE DROP VERT. VERTICAL	1901
INSITY DISCHARGESURF.AUTOSUSP.SSURE SODIUMSW.SWOD	SURFACE SUSPENDED SWITCH	V.I.F./VIF VERIFY IN FIELD VS. VERSUS W WIRE	
SWBD. E SYM. T.C./TC	SWITCHBOARD SYMMETRICAL TIME CLOCK	W.I. WROUGHT IRON W/ WITH W/O WITHOUT	& VERNICK
WER TEL. /ER FACTOR THRU	TELEPHONE THROUGH	WD. WIDE WP WEATHER PROOF	2059 SPRINGDALE ROAD,
ER HEATER		XLPE CROSSLINKED POLYETHYLENE	CHERRY HILL, NJ 08003 (856) 795-9595, FAX (856) 795-1882
IATE CONDUIT ICENT		OUNTING HEIGHTS	WEB SITE ADDRESS : WWW.RVE.COM Certification of Authorization: 24 GA 28003300
N/INSULATED SERVICE PROVIDER	MOUNTING HEIGHTS FOR EQUIPMENT S OTHERWISE SPECIFICALLY LABELED. (I DIMENSIONS ARE TO THE CENTERLINE	UNLESS OTHERWISE NOTED, ALL	~ENGINEERING EXCELLENCE~
ALLY SAFE N ALARM PANEL N ALARM KEYPAD	SWITCHES TELEPHONE - WALL TYPE	3'-8" A.F.F. 3'-8" A.F.F.	 DATE:
BOX D AMPERES INTERRUPTING CAPACITY	TELEPHONE – DESK TYPE	1'-6" A.F.F.	CHRISTOPHER A. SAPONARO
Т	RECEPTACLE – GENERAL OFFICE RECEPTACLE – MECHANICAL ROOMS	1'-6" A.F.F. 3'-0" A.F.F.	NJ PROFESSIONAL ENGINEER LIC. No. 40059
D CIRCULAR MILS HOUR	FIRE ALARM GONG OR SPEAKER FIRE ALARM PULL STATION	6'-8" TO BOTTOM OF GONG OR SPEAKER 3'-8" A.F.F. TO CENTER OF PULL	
Z – AMPERE	FIRE ALARM STROBE LIGHT	6'-8" A.F.F. TO BOTTOM OF STROBE 6'-5" A.F.F.	
EET	PANELBOARDS	6'-0" TO TOP OF CIRCUIT BREAKER MAX.	
ROTOR AMPERES	EXIT LIGHT KEY PAD (REMOTE)	ABOVE DOORS (MIN. 7'-6" A.F.F. CLEAR) 3'-8" A.F.F.	
S ONLY	DATA OUTLET VOLUME CONTROL/CALL SWITCH	1'-6" A.F.F. 3'-8" A.F.F.	
NDUCTOR TURER	TIMER (NON-ADA)	4'-6" A.F.F.	
AKER CUIT BREAKER	WIRE & COND WIRE SIZE (AWG/KCMIL)	NO. OF WIRES & CONDUIT SIZE IN INCHES	
ONTROL CENTER D CIRCULAR MILLS TRIBUTION SWITCHBOARD	CKT. CONDUCTOR TYPE & NEUTRAL GROUNE		
TRIBUTION SWITCHBOARD TRIBUTION PANEL CAL	1         14         14           2         12         12	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
NCE FACTOR ENERATOR	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
NEOUS	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT
CLOSED ELECTRICAL CODE	9 2 8	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON &
ELECTRICAL MANUFACTURER ASSOCIATION ONTRACT Y OPEN	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER
SCALE	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR
EHT CIRCUT ED	14         3/0         6           15         4/0         2           16         250 kCMIL         2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	RESULTING THEREFROM
L SULATED LEAD COVERED	16         250 kCMIL         2           17         300 kCMIL         2           18         350 kCMIL         2	2 2-1/2 2-1/2	
K, BREAKER OR SWITCH POLE ARD	19 400 kCMIL 1/0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
N VER ETHERNET	20         500 kCMIL         1/0           21         (2) 4/0         (2) 2           22         (2) 250 kCMIL         (2) 2		
LCHLORIDE	22         (2)         250 kCMIL         (2)         2           23         (2)         350 kCMIL         (2)         1           24         (2)         500 kCMIL         (2)         1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
ANNUNCIATOR PANEL CONTROL SWITCH	24 (2) 500 kCMIL (2) 1/0 25 (3) 300 kCMIL (3) 1/0 26 (3) 400 kCMIL (3) 2/0	) (3) 2-1/2 (3) 3	
ING BAR ), RECEPTACLE	26 (3) 400 kCMIL (3) 2/0 27 (3) 500 kCMIL (3) 3/0 28 (4) 350 kCMIL (4) 3/0	(3) 3 (3) $3-1/2$	
CLES EVISION	28 (4) 350 kCMIL (4) 3/0 29 (4) 500 kCMIL (4) 4/0 70 (5) 400 kCMIL (4) 4/0	0 (4) 3 (4) 3-1/2	
EQUENCY GENERATOR ANNUNCIATOR	30         (5)         400         kCMIL         (5)         4/0           31         (5)         500         kCMIL         (5)         250           30         (6)         400         kCMIL         (5)         250	0 (5) 3 (5) 3-1/2	
VANIZED STEEL CONDUIT FAL CONDUIT	32         (6) 400 kCMIL         (6) 250           33         (7) 500 kCMIL         (7) 350	0 (7) 3 (7) 3-1/2	
TEET		ED ON 600 VOLT WIRE TYPE 90°C	
S STEEL RY	CONDUIT READOUT FROM ABOV	â	
<u>-</u>		(2A) = (2)#12AWG, (1)#12GRD IN 3/4"C.	II ⊢ II SXR ⊱
COORDINATE THE REMOVAL AND INSTALL			SHEET PUBLIC WORKS
COMMUNICATIONS, AND CONTROL OF THE ALL PROVIDE A THOROUGH EVALUATION	FACILITY WITH THE OWNER. OF THE EXISTING PROJECT SITE AND		
WHERE EXISTING CONDITIONS WARRANT THE CONTRACTOR SHALL PROVIDE THE L ALTERATIONS, DEMOLITION, PATCHING,	REQUIRED WORK AND MATERIALS TO		
MMODATE THE NEW CONSTRUCTION WORK			
			COVI EBID STER COUNT
			RICAL
			ISHIP GA
			ELECTRICAL LOGAN TOWNSHIP DEPA GARAGE - R
			DRAWN BY: DESIGN BY: CHECKED BY: SCALE:
			J.Z. K.S. AS NOTED
	I	SSUED FOR BID DATE 04-20-2022	10/2021 E-1.0
			0809T126

- 1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING. 2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH NEC2017, AT NO ADDITIONAL COST.
- 3. CONTRACTOR SHALL COORDINATE NEW ELECTRICAL SERVICE WITH UTILITY COMPANY (ATLANTIC CITY ELECTRIC) FOR A COMPLETE INSTALLATION AND PROVIDE ALL NECESSARY EQUIPMENT THAT INCLUDES BUT IS NOT LIMITED TO SERVICE ENTRANCE WEATHERHEADS, CONDUITS, CONDUIT FITTINGS, STRAPS, ETC., FOR NEW ELECTRICAL SERVICE RISER.
- 4. CONTRACTOR SHALL PROVIDE 5' MINIMUM CLEARANCE AWAY FROM ALL WINDOWS OR DOOR
- OPENINGS. 5. CONTRACTOR SHALL COORDINATE WITH LOCAL ISP (INTERNET SERVICE PROVIDER) COMCAST OR VERIZON FOR THE NEW LOGAN DPW INTERNET/TELEPHONE SERVICE. FIELD VERIFY EXACT UTILITY POLE FOR INCOMING COMMUNICATIONS CABLE PRIOR TO INSTALLATION OF DUCT BANK A-A.
- 6. REPAIR ALL HOLES IN EXTERIOR WALL AS REQUIRED TO MAINTAIN WATER TIGHT INTEGRITY OF EXISTING BUILDING ENVELOPE. CONTRACTOR SHALL CONNECT UNDERGROUND CONDUIT TO ADAPTER AND ROUTE UPWARDS, ALONG EXTERIOR WALL WITH 3/4" RMC TO EXTERIOR CONDUIT BODY.
- 7. FIELD VERIFY EXACT LOCATION OF EXTERIOR WALL PENETRATION TO EXISTING PANELBOARD 'L' AND ROUTE BRANCH CIRCUIT AS REQUIRED BASED ON EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR REPAIRING, RESTORING ANY AREAS OF FLOOR, CEILING AND/OR WALLS DAMAGED AS RESULT OF NEW WORK. REPAIR OR REPLACED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
- 8. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT PANELBOARD IN BUILDING PRIOR TO INSTALLATION & REVISE EXACT ROUTING OF OVERHEAD CONDUITS, CABLE AND/OR & JUNCTION BOXES AS REQUIRED BASED ON EXISTING CONDITIONS.
- 9. A MINIMUM CLEARANCE OF 10 FEET OF CLEAR, LEVEL WORKING SPACE IS REQUIRED IN FRONT OF OIL FILLED EQUIPMENT TO ALLOW USE OF HOT STICKS. LANDSCAPING, FENCING AND OTHER OBSTRUCTIONS MUST NOT ENCROACH ON THESE CLEARANCES TO MAINTAIN 24/7/365 ACCESS.





-(IS)TANK LEVEL SENSOR (TYP.2)	
SENSOR (TYP. 2)	
(IS)DISCRIMINATING LEAK SENSOR (TYP.4)	

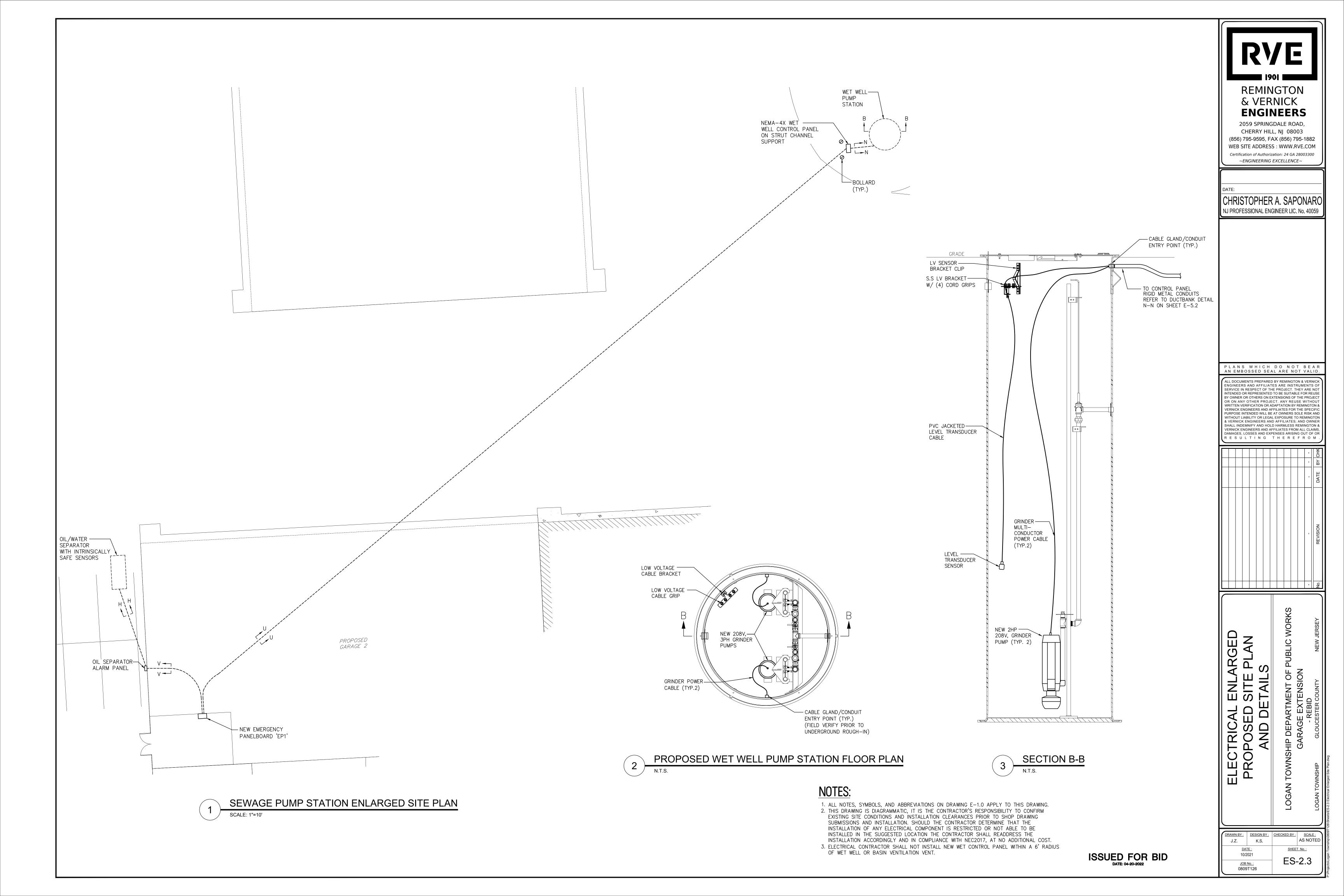
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- 3. ELECTRICAL CONTRACTOR SHALL INSTALL NEW NEMA-4X HEAT TRACE CONTROLLER ON STRUT SUPPORT (BASIS OF DESIGN: RAYCHEM MODEL#:ELEXANT 4010i). ALL HEAT TRACE COMPONENTS & ACCESSORIES SHALL BE SUITABLE FOR MINIMUM CLASS I, DIVISION II HAZARDOUS LOCATIONS. HEAT TRACE SYSTEM SHALL INCLUDE ALL WIRING, WIRING COMPONENTS, CONTROLS, AND GROUND FAULT PROTECTION AS REQUIRED PER MANUFACTURER & NEC2017 FOR A COMPLETE SYSTEM.
- 4. ELECTRICAL CONTRACTOR SHALL INSTALL DISPENSING SYSTEM CONTROL PANEL (BASIS OF DESIGN: SAFESITE DSC) MINIMUM 20' AWAY FROM CLASSIFIED AREA. DISPENSING SYSTEM SHALL BE INSTALLED ON STRUT SUPPORT AND MANAGE ALL COMPONENTS OF FUEL DISPENSING SYSTEM THAT INCLUDE BUT IS NOT LIMITED TO LOCAL/REMOTE E-STOP, HEAT TRACE CONTROLLER, SITE LIGHTING, ETC.
- 5. ALL ELECTRICAL WORK WITHIN CLASSIFIED AREA SHALL BE INSTALLED IN ACCORDANCE WITH NEC 2017, NFPA 30A, THE AHJ (AUTHORITY HAVING JURISDICTION), & FUEL COMPONENTS' MANUFACTURER INSTALLATION GUIDE.
- 6. ALL ELECTRICAL WORK WITHIN CLASSIFIED AREA SHALL BE INSTALLED IN ACCORDANCE WITH NEC 2017, NFPA 30A, THE AHJ (AUTHORITY HAVING JURISDICTION), & FUEL COMPONENTS' MANUFACTURER INSTALLATION GUIDE.
- 7. ALL RACEWAYS SHALL BE THREADED RMC, UNLESS OTHERWISE SHOWN. JUCTION BOXES, COUPLING, CONDUIT FITTING, UNIONS WITHIN CLASSIFIED AREA, SHALL BE RATED EXPLOSION PROOF, MINIMUM CLASS I, DIVISION II, IN ACCORDANCE WITH THE NEC 2017 ARTICLE 501.
- 8. CONTRACTOR SHALL PROVIDE CONDUIT SEAL FITTING WITHIN 18" OF ALL MAKE-OR-BREAK CONTACTS WITHIN ENCLOSURES OF CLASSIFIED AREA. IN ADDITION, ALL UNDERGROUND CONDUITS WITHIN CLASSIFIED AREA SHALL HAVE CONDUIT SEAL FITTING WITHIN 10FT OF THE POINT OF EMERGENCE ABOVE GRADE.
- 9. ALL METAL RACWAYS & NON-CURRENT CARRYING METALS PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH WITH THE NEC 2017 ARTICLE 501. IN ADDITION, ALL CONDUITS WITH LOCKNUT BUSHINGS SHALL HAVE BONDING JUMPERS.

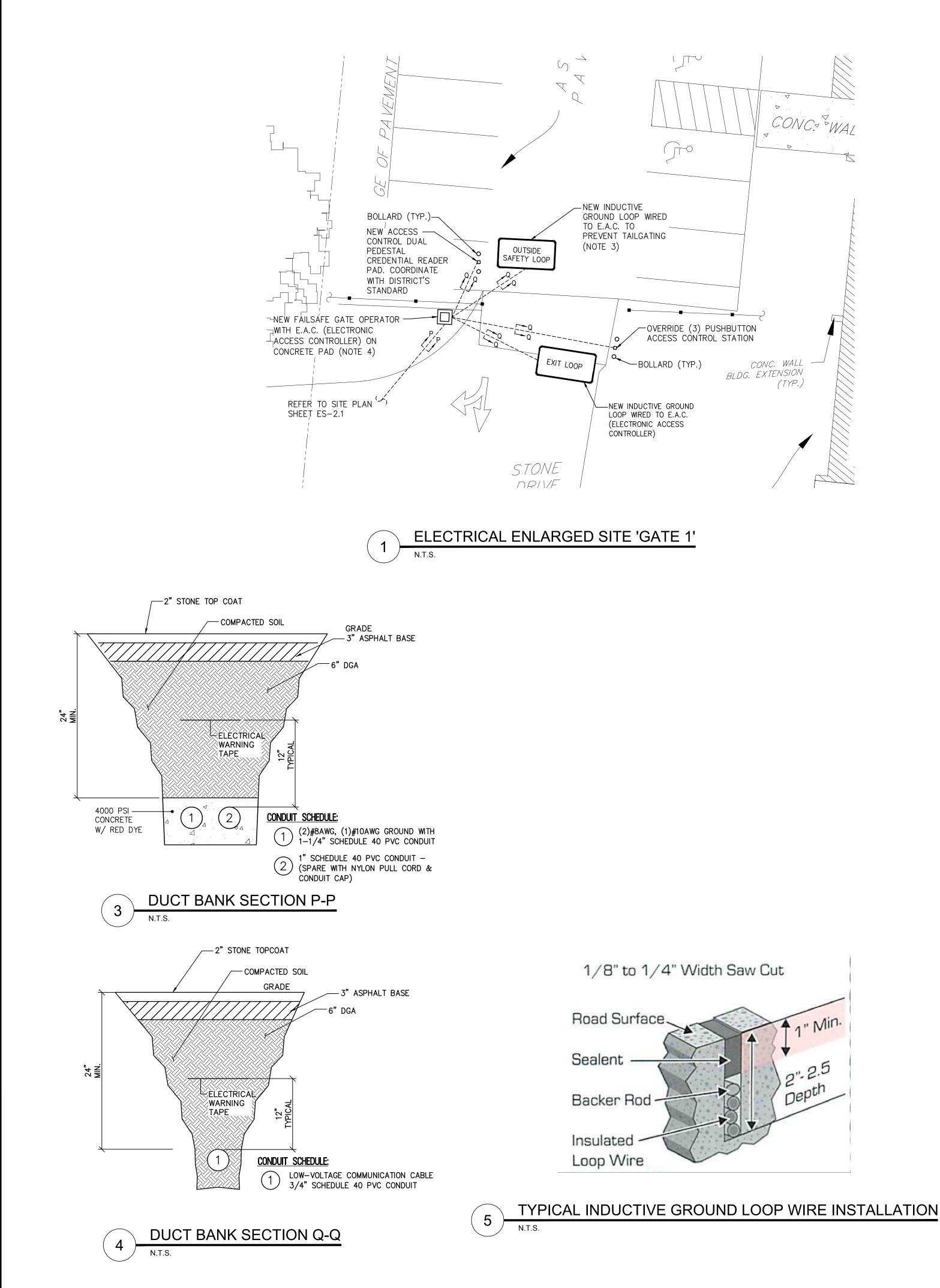
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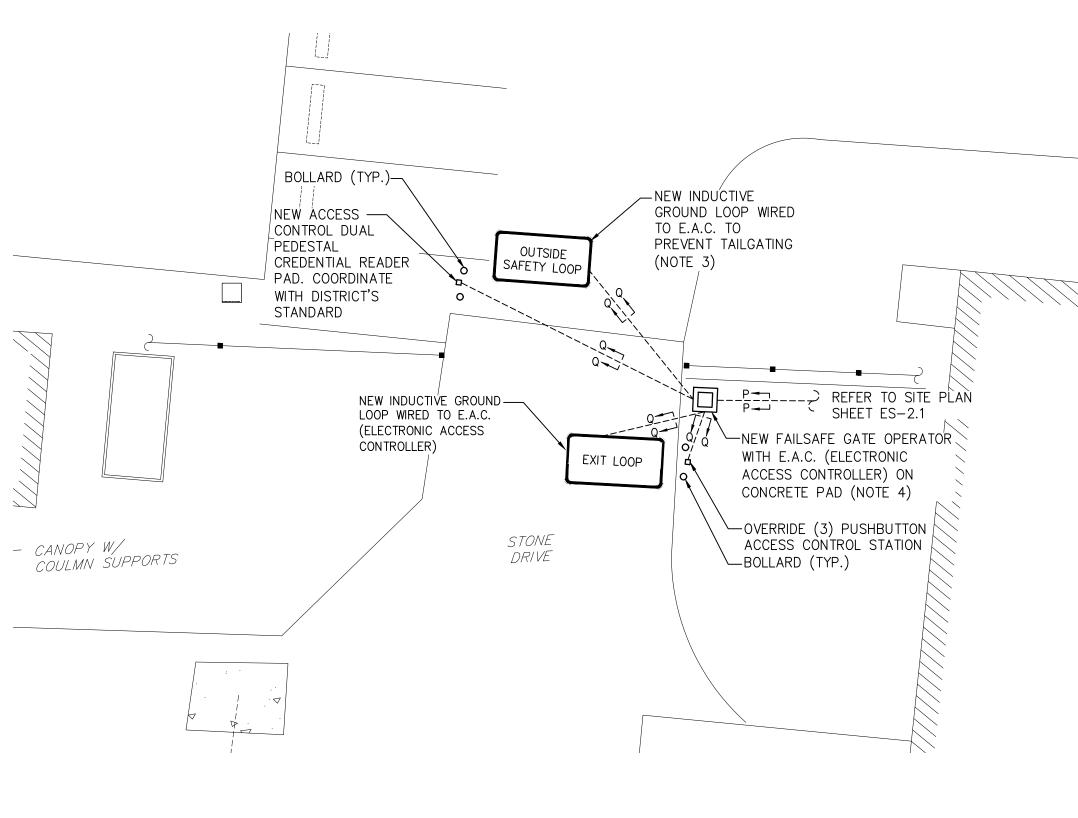
10. PROVIDE CLASS I DIVISION 1 DUPLEX RECEPTACLE AND PLUG FOR DEF DISPENSER.

& VER ENGIN 2059 SPRING CHERRY HIL (856) 795-9595, FA WEB SITE ADDRESS Certification of Authoriz ~ENGINEERING	OI IGTON NICK NEERS 5DALE ROAD, L, NJ 08003 AX (856) 795-1882 S : WWW.RVE.COM ration: 24 GA 28003300 EXCELLENCE~												
CHRISTOPHER NJ PROFESSIONAL ENG	A. SAPONARO GINEER LIC. No. 40059												
P L A N S W H I C H D O N O T B E A R AN EMBOSSED SEAL ARE NOT VALID. ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR R E S U L T I N G T H E R E F R O M													
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ELECTRICAL ENLARGED PROPOSED SITE PLAN	LOGAN TOWNSHIP DEPARTMENT OF PUBLIC WORKS GARAGE EXTENSION - REBID LOGAN TOWNSHIP GLOUCESTER COUNTY NEW JERSEY												
DRAWN BY :         DESIGN BY :           J.Z.         K.S.           DATE :         10/2021           JOB No. :	CHECKED BY: SCALE: AS NOTED SHEET No.: ES-2.2												

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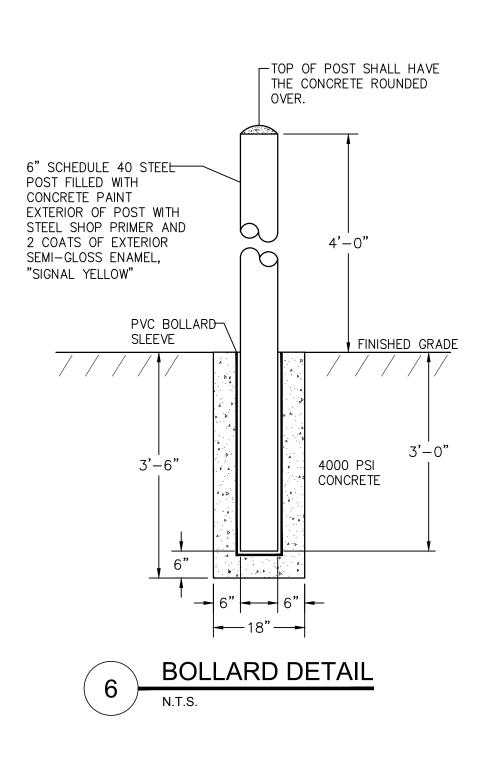






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N.T.S.



**ELECTRICAL ENLARGED SITE 'GATE 2'** 

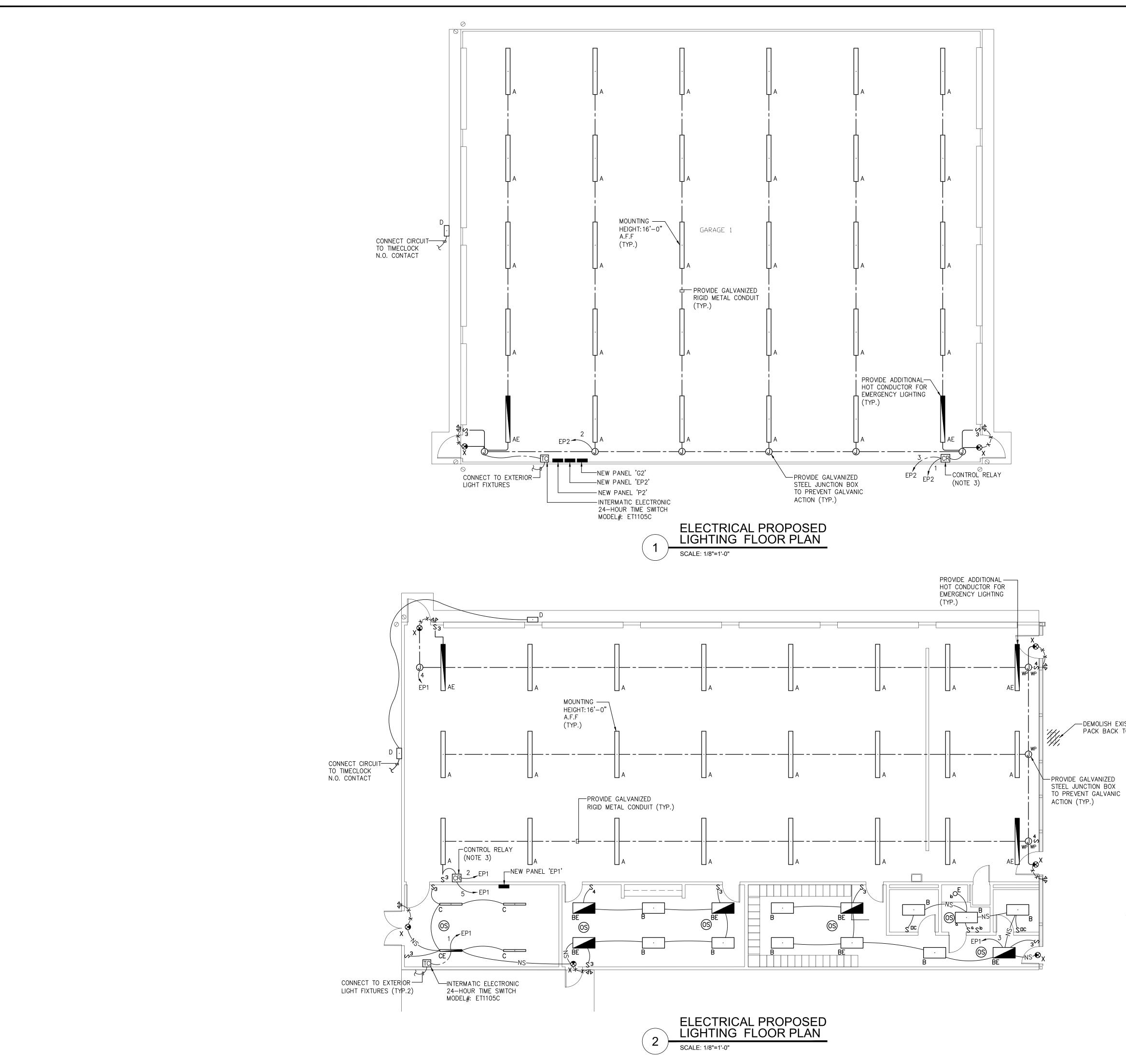
## NOTES:

- 1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING 7 OF 8 APPLY TO THIS DRAWING. 2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH NEC2017, AT NO ADDITIONAL COST. 3. OUTSIDE SAFETY LOOP SHALL BE A MINIMUM OF 4'-0" AWAY FROM MOTORIZED GATE.
- 4. GATE OPERATOR'S BASIS OF DESIGN IS EAGLE SLIDE GATE OPERATOR, EAGLE-2000 SERIES, AS MANUFACTURED BY EAGLE ACCESS CONTROL SYSTEMS, OR APPROVED EQUAL. 5. CONTRACTOR SHALL CUT THROUGH EXISTING OBSTRUCTIONS THAT INCLUDE BUT IS NOT LIMITED TO EXISTING CURB, CONCRETE PATH, ASPHALT PAVEMENT, ETC., FOR THE
- INSTALLATION CONDUITS OF THE NEW MOTORIZED GATE SYSTEM. CONTRACTOR IS RESPONSIBLE FOR REPAIRING, REPLACING & RESTORING ANY AREAS DAMAGED AS A RESULT OF NEW WORK. REPAIRED OR REPLACED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THEIR ORIGINAL CONDITION.

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6. ELECTRICAL CONTRACTOR SHALL INSTALL NEW GATE OPERATOR, CONCRETE PAD, & ACCESSORIES IN ACCORDANCE WITH THE INSTALLATION MANUAL OF MFR. & NEC 2017.

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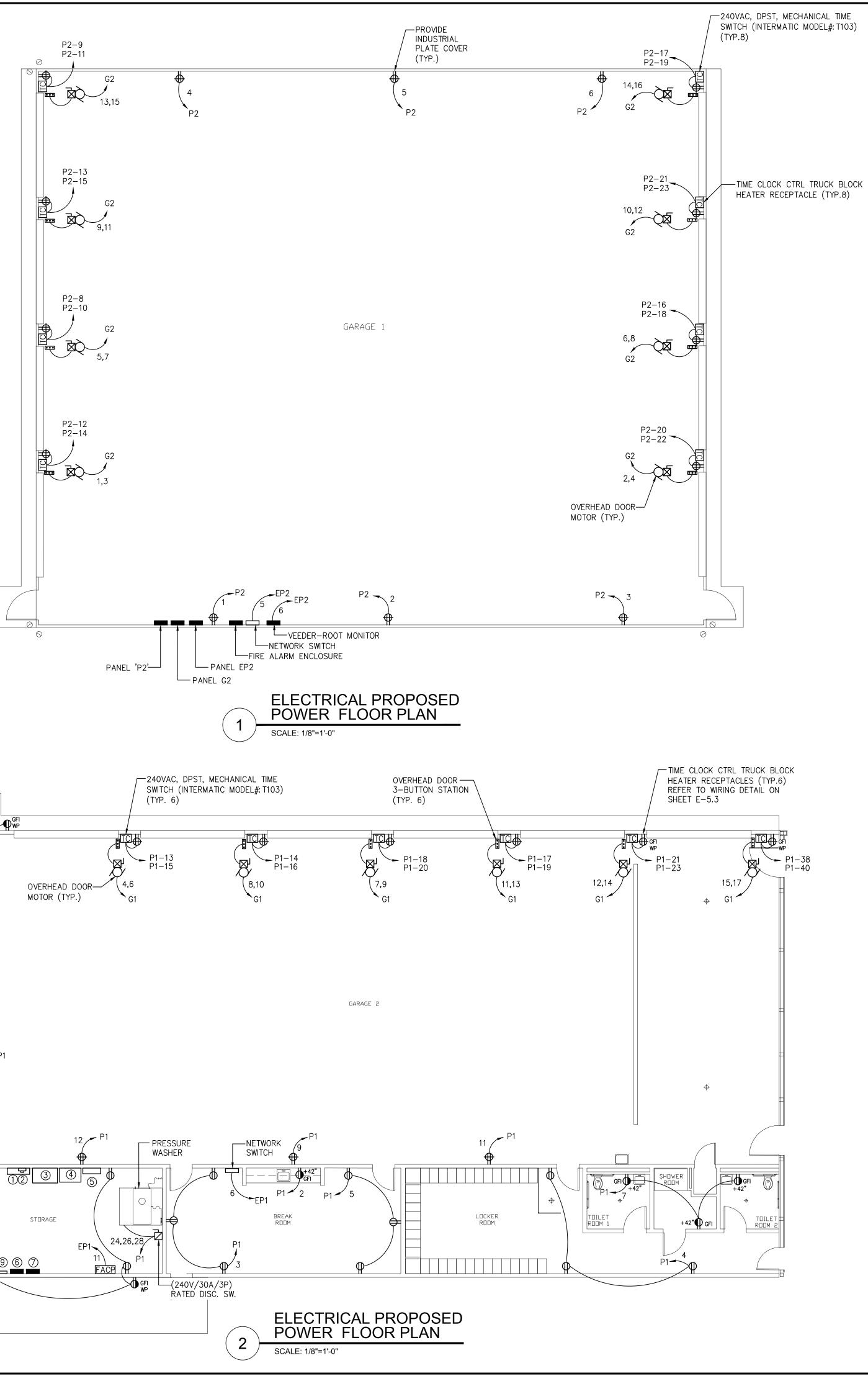
190 REMING & VERN ENGIN 2059 SPRINGD CHERRY HILL, (856) 795-9595, FAX WEB SITE ADDRESS : Certification of Authorization	GTON NICK EERS ALE ROAD, NJ 08003 ( (856) 795-1882 WWW.RVE.COM
CHRISTOPHER A	
PLANS WHICH D AN EMBOSSED SEAL	ARE NOT VALID.
ALL DOCUMENTS PREPARED B' ENGINEERS AND AFFILIATES SERVICE IN RESPECT OF THE I INTENDED OR REPRESENTED TO BY OWNER OR OTHERS ON EXTE OR ON ANY OTHER PROJECT WRITTEN VERIFICATION OR ADAI VERNICK ENGINEERS AND AFFIL PURPOSE INTENDED WILL BE AT WITHOUT LIABILITY OR LEGAL E & VERNICK ENGINEERS AND AFFIL DAMAGES, LOSSES AND EXPEN R E S U L T I N G T	ARE INSTRUMENTS OF PROJECT. THEY ARE NOT D BE SUITABLE FOR REUSE ENSIONS OF THE PROJECT T. ANY REUSE WITHOUT PTATION BY REMINGTON & LIATES FOR THE SPECIFIC FOWNERS SOLE RISK AND XPOSURE TO REMINGTON AFFILIATES; AND OWNER HARMLESS REMINGTON & LIATES FROM ALL CLAIMS, ISES ARISING OUT OF OR
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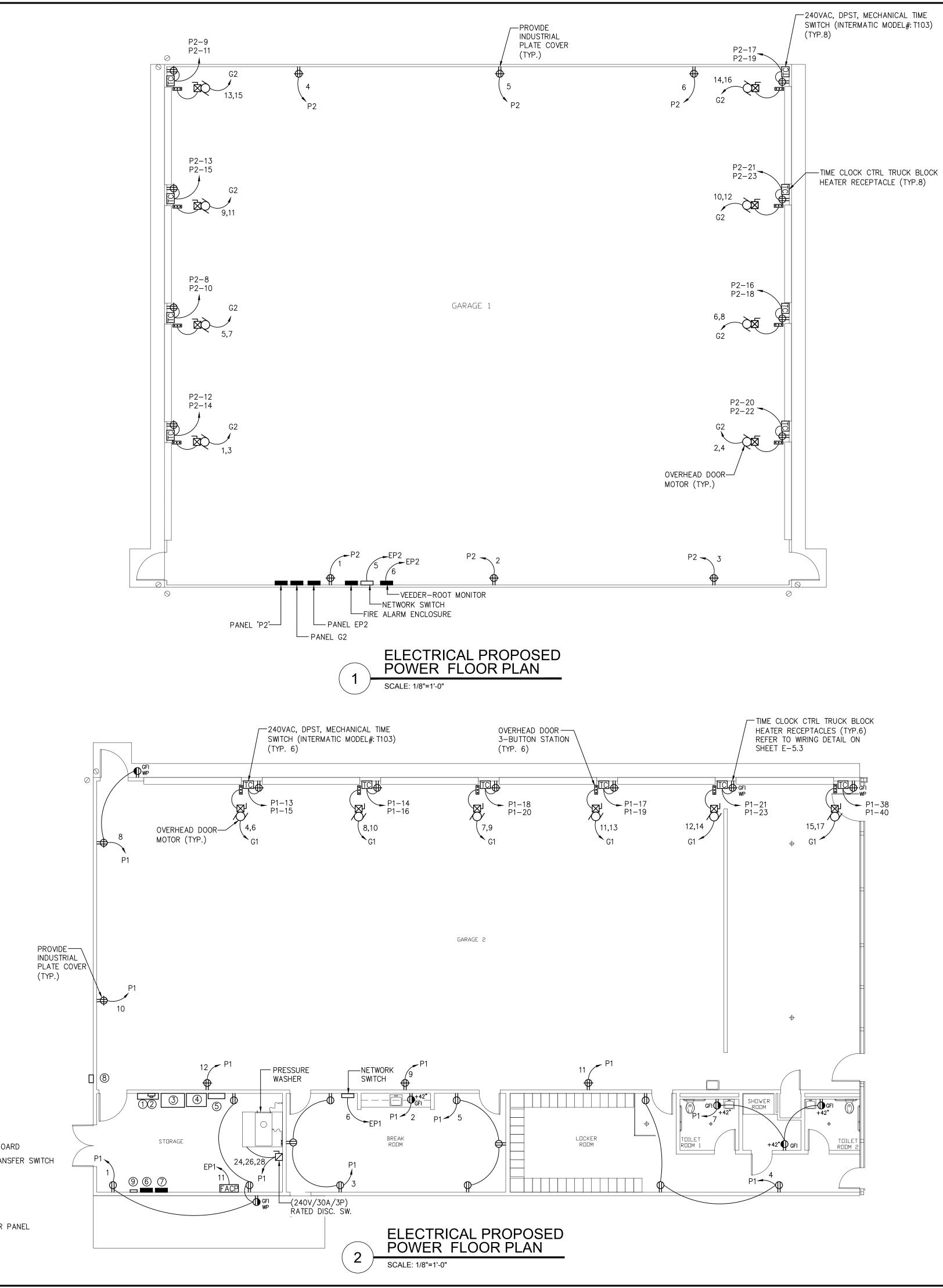
- DEMOLISH EXISTING WALL PACK BACK TO SOURCE

### NOTES:

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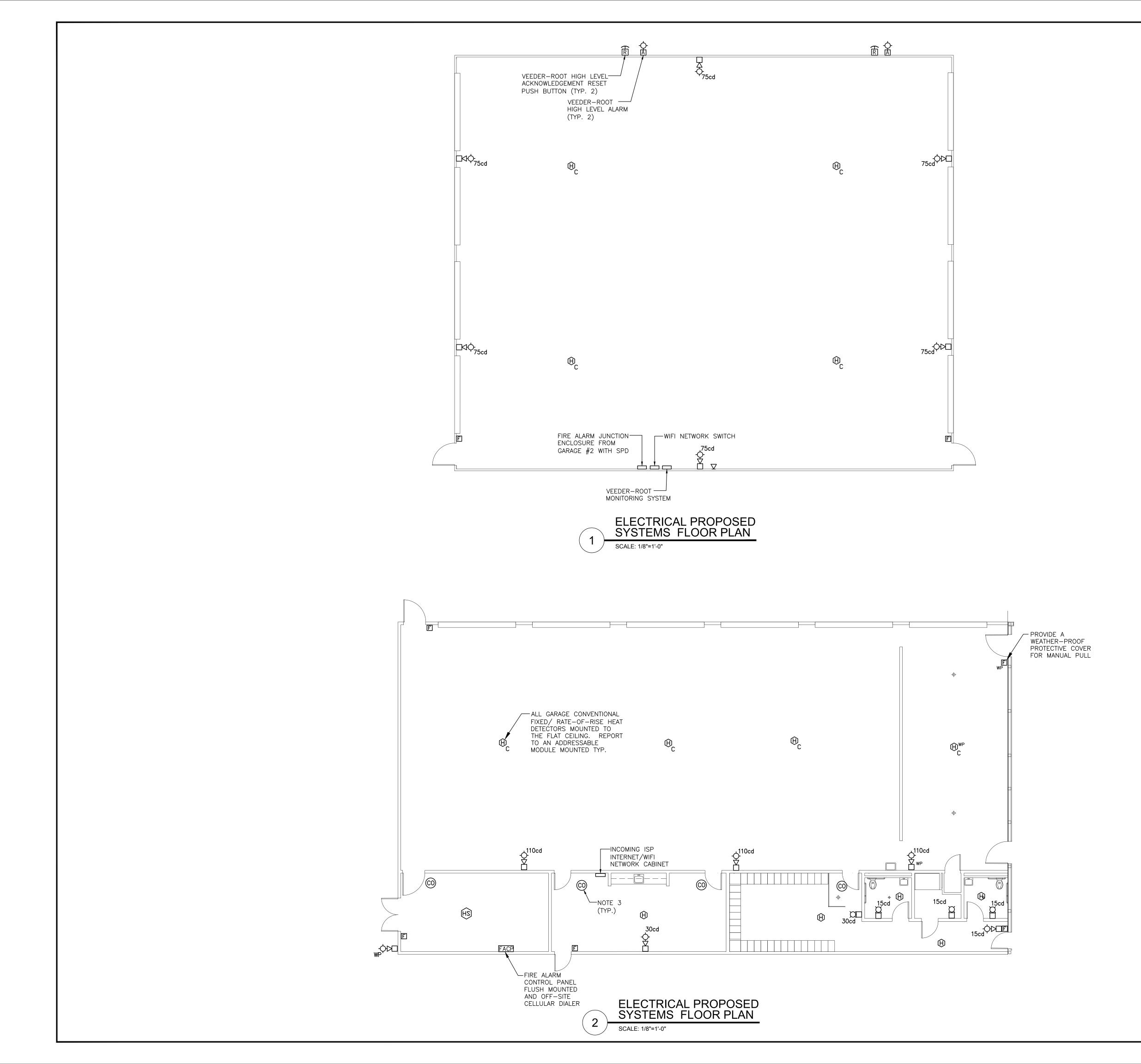


- 1 UTILITY 600A C.T. CABINET
- ② 208Y/120V, 3P4W UTILITY METER
- (3) 600A, MAIN DISTRIBUTION PANELBOARD
- ④ 208Y/120V, 3P4W AUTOMATIC TRANSFER SWITCH
- 5 EMERGENCY PANELBOARD #1
- ⑥ PANEL 'P1'
- ⑦ PANEL 'G1'
- (8) OIL SEPARATOR ALARM PANEL
- ③ REMOTE GENERATOR ANNUNCIATOR PANEL

	(856) WEB Certif	R & E 205 CH ) 79 SITE icatic ~ENG	<b>N</b> 9 S ER 5-9 E Al on of GIN	M /E G SPR RY 599 DD F Auto	IS IP FF SINC HII 5, F RES thorn			<b>T</b> ( <b>C</b> <b>E P</b> 03 56) WW 24 (C LLE	K R 80/ 079 V.R 5A 2 NCI	N N N N N N N N N N N N N N N N N N N	188 CO 9330	M 0	
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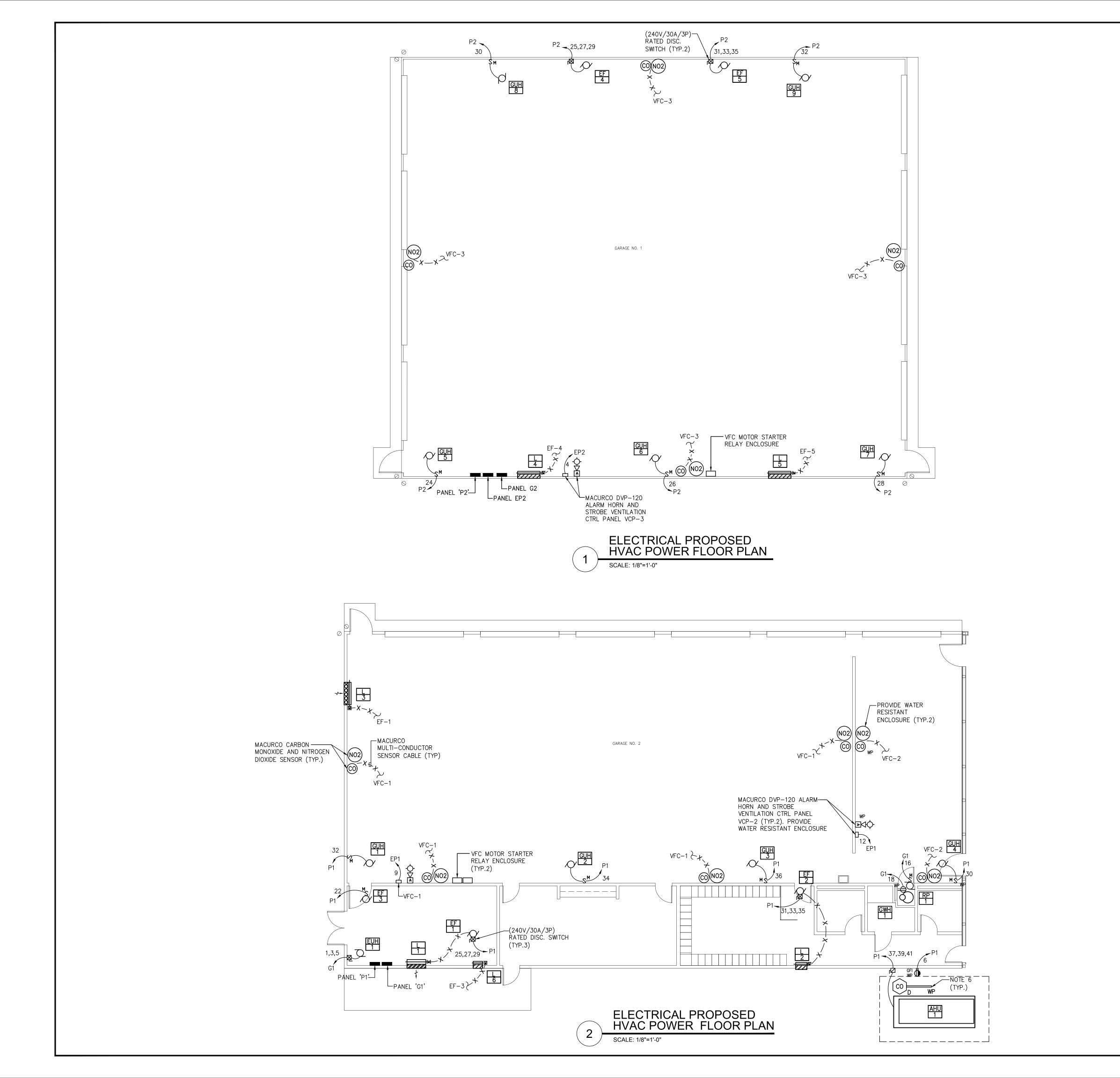
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& VER ENGI 2059 SPRING CHERRY HIL (856) 795-9595, FA WEB SITE ADDRES Certification of Authoriz ~ENGINEERING	OI IGTON NICK NEERS 5DALE ROAD, L, NJ 08003 AX (856) 795-1882 S : WWW.RVE.COM ration: 24 GA 28003300 EXCELLENCE~
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ENGINEERS AND AFFILIAT SERVICE IN RESPECT OF TH INTENDED OR REPRESENTED BY OWNER OR OTHERS ON E OR ON ANY OTHER PROJE WRITTEN VERIFICATION OR A VERNICK ENGINEERS AND A PURPOSE INTENDED WILL BE WITHOUT LIABILITY OR LEGA & VERNICK ENGINEERS AN SHALL INDEMNIFY AND HOL VERNICK ENGINEERS AND AN DAMAGES, LOSSES AND EXF	AL ARE NOT VALID.
ELECTRICAL PROPOSED SYSTEMS FLOOR PLAN	LOGAN TOWNSHIP DEPARTMENT OF PUBLIC WORKS GARAGE EXTENSION - REBID LOGAN TOWNSHIP GLOUCESTER COUNTY NEW JERSEY
DRAWN BY:         DESIGN BY:           J.Z.         K.S.           DATE:         10/2021           JOB No.:         0809T126	CHECKED BY: AS NOTED SHEET No.: E-3.2

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING. 2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH NEC2017, AT NO ADDITIONAL COST. 3. CONNECT CO DETECTOR TO FIRE ALARM CONTROL PANEL.

ISSUED FOR BID



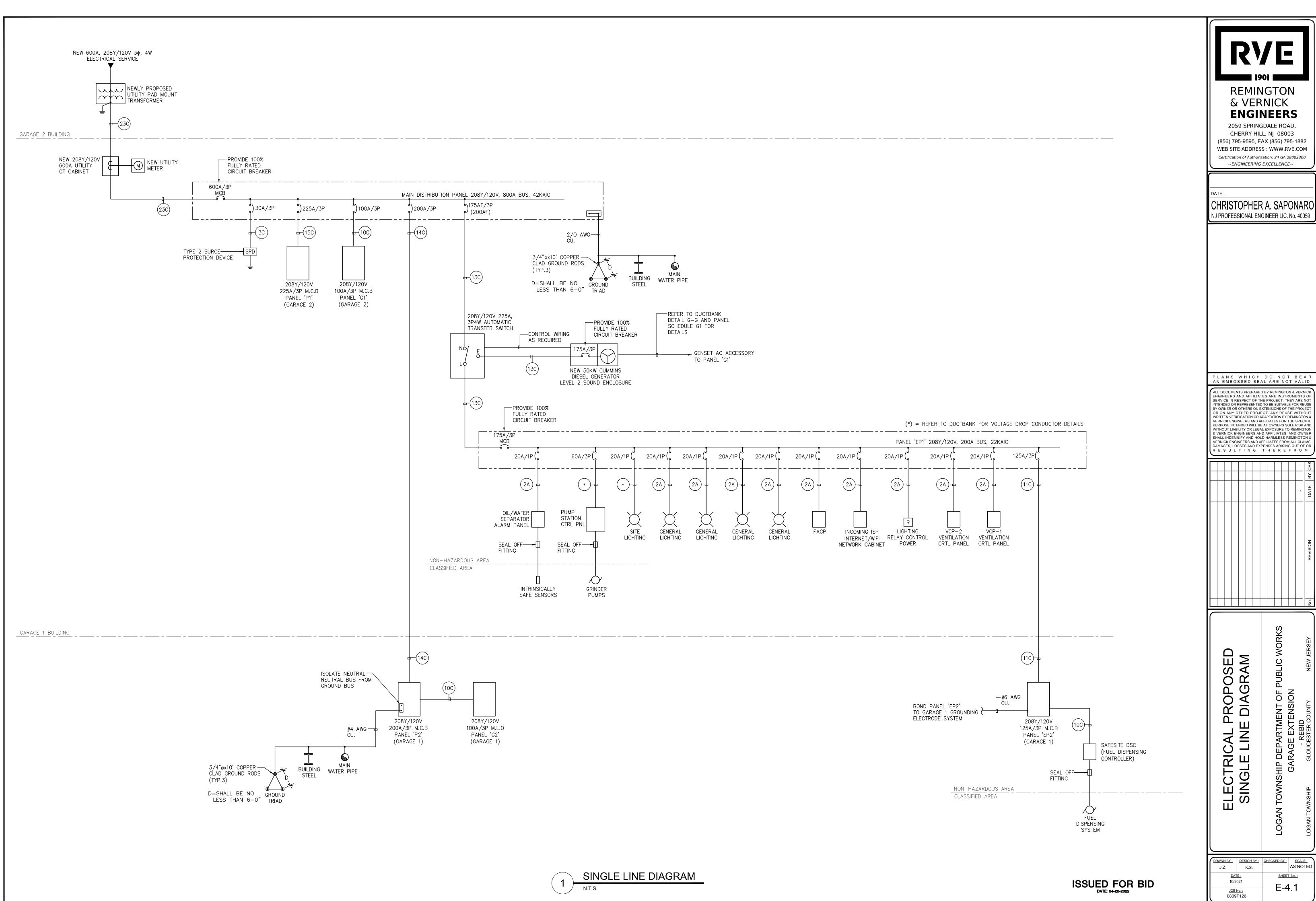
DRAWN BY:     DESIGN BY:     CHECKED BY:     SCALE:       J.Z.     K.S.     AS NOTED       DATE:     SHEET No.:					H C C C C C C C C C C C C C C C C C C C						
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- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
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- INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH NEC2017, AT NO ADDITIONAL COST.3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH HVAC CONTROLS CONTRACTOR ON MOTORIZED DAMPER INTERCONNECTION REQUIREMENTS WITH EXHAUST FANS.
- 4. MOUNT HAZARDOUS GAS COMBINATION HORN AND STROBE ABOVE VENTILATION FAN CONTROL (VFC). PROVIDE (2)#14AWG AND (1)#14AWG GROUND TO HORN/STROBE FROM CONTROL PANEL 24VDC DRIVERS.

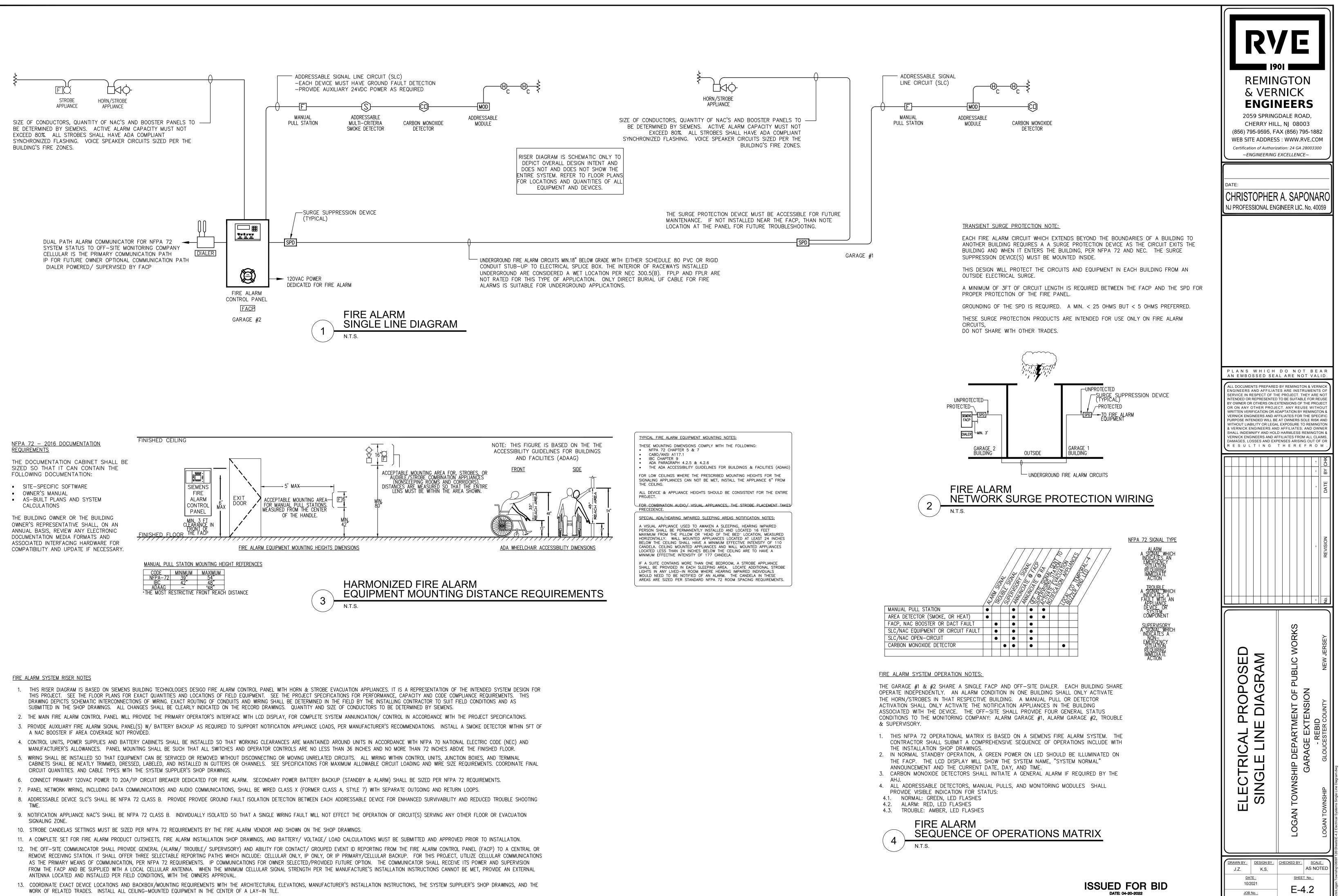
ISSUED FOR BID

- 5. ALL LOW-VOLTAGE CABLES SHALL BE RAN WITHIN SEPARATE CONDUIT AWAY FROM LARGE INDUCTIVE LOADS TO PREVENT ELECTROMAGNETIC INTERFERENCE (EMI). COORDINATE WITH HVAC CONTROLS CONTRACTOR.
- 6. CONNECT CO DUCT DETECTOR TO FIRE ALARM CONTROL PANEL.

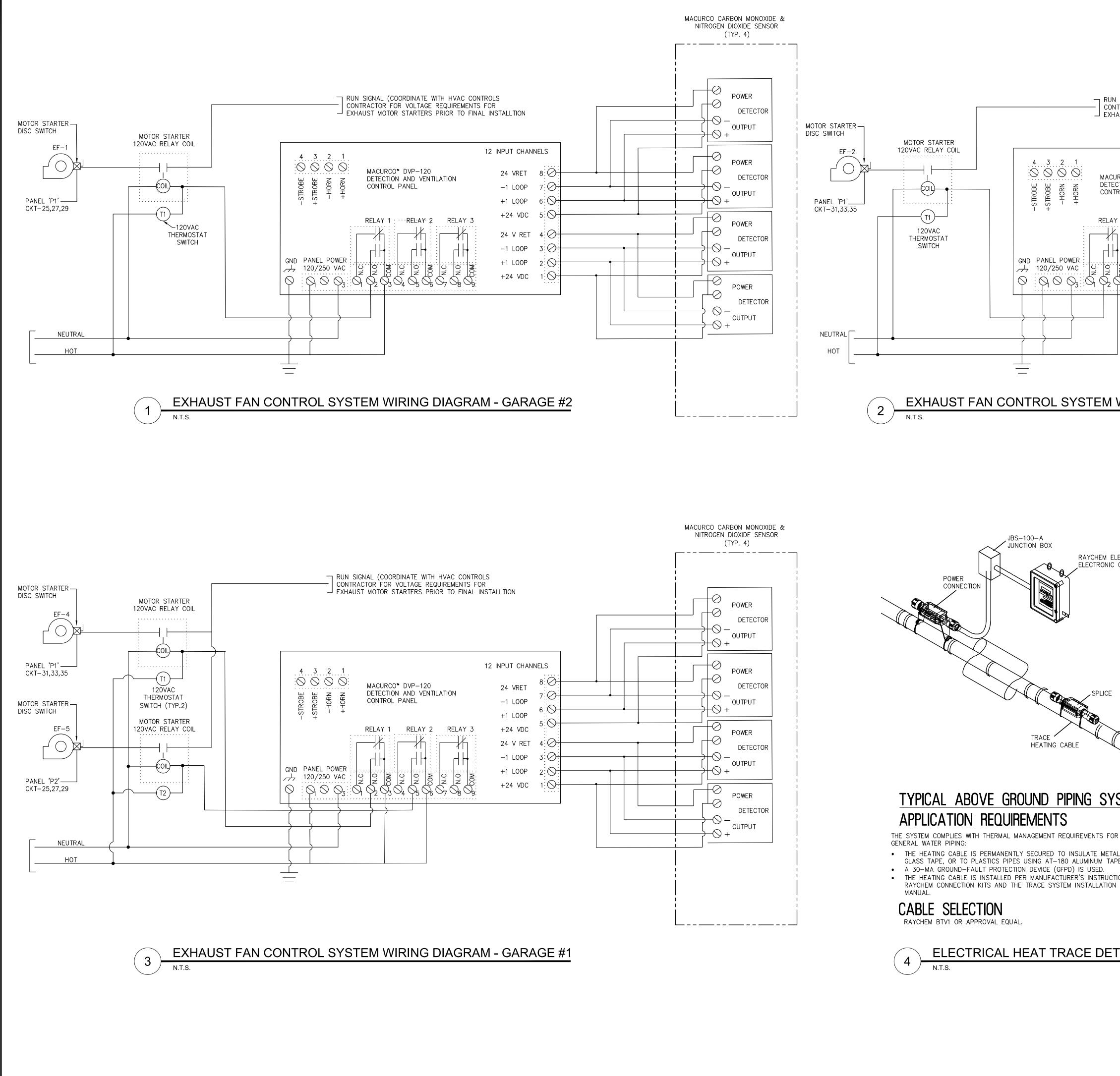
Logan Township/0809T126\Sheets\E-3.3 Electrical HVAC Power Floor Plan.dwg



Projects\Logan Township\0809T126\Sheets\E-3.1 Electrical Single Line Diag

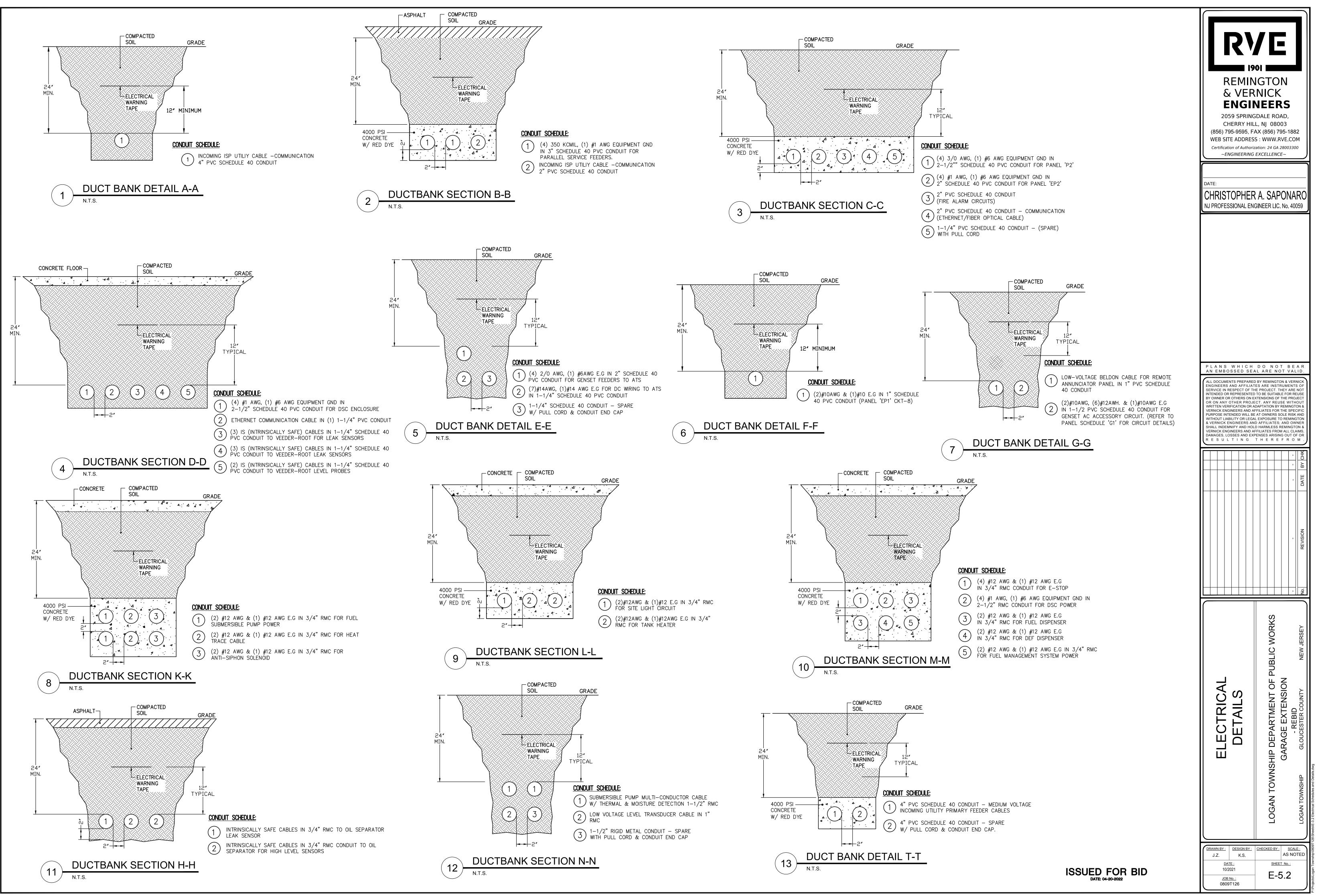


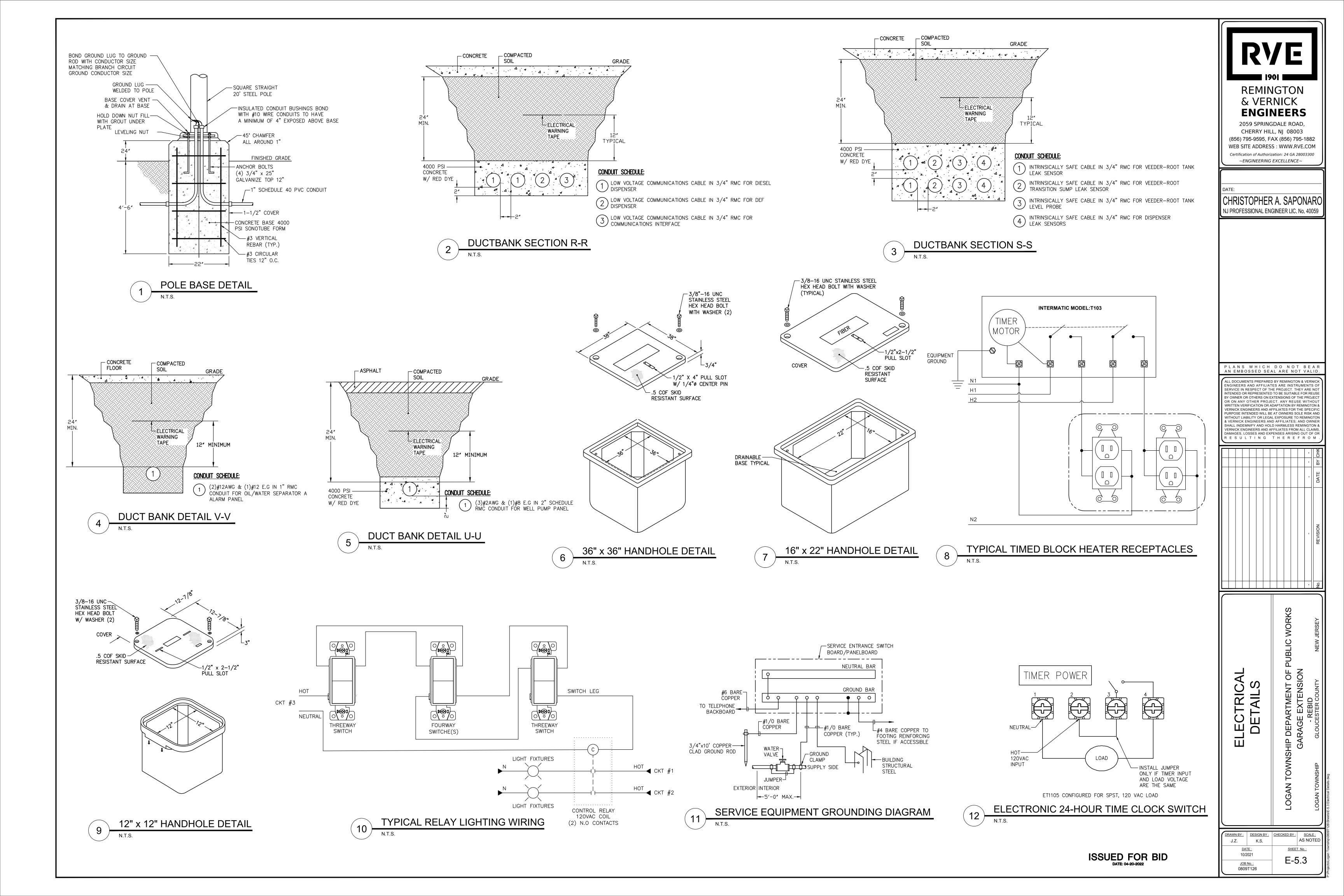
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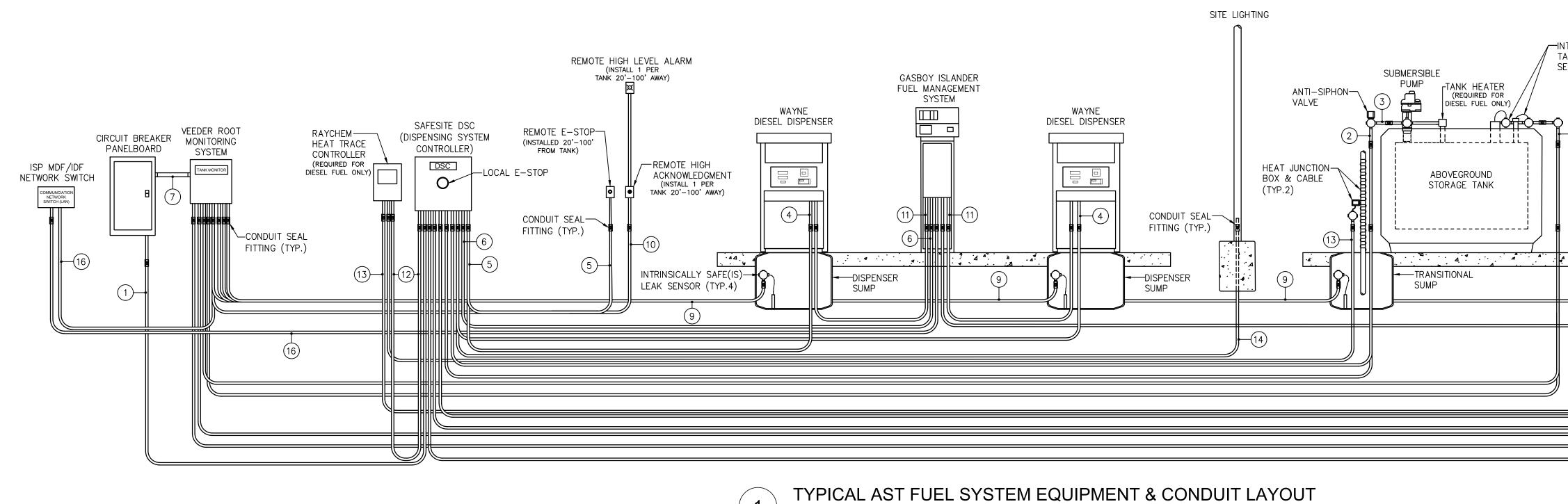


THE SYSTEM COMPLIES WITH THERMAL MANAGEMENT REQUIREMENTS FOR

IRACTOR FOR VOLTAGE REQUIREMENTS FOR UNIT CHANNELS 12 INFUT CHANNELS 12 INFUT CHANNELS 11 LOOP 7 12 INFUT CHANNELS 11 LOOP 7 11 LOOP 7	ISSUED FOR BID DATE: 04-20-2022	DRAWN BY:         DESIGN BY:           J.Z.         K.S.           DATE :         10/2021           JOB No. :         0809T126	CHECKED BY: SCALE: AS NOTED SHEET No.: E-5.1
SOUR COORDINEE WHI EVAL COORDUS NEEDED TO WINK THE REDUCTION OF THE ACCOUNTS INFO TO WINK THE REDUCTION OF THE ACCOUNTS INFO TO WINK THE REDUCTION OF THE ACCOUNTS INFO TO WINK THE	ABOVE GROUND PIPES WITH GT-66 DNS WITH APPROVED AND OPERATION ADDITIONAL CONDITIONS AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING. ADDITIONAL OF A DATA AND A AND AND AND AND AND AND AND AND	ELECTRICAL DIAGRAMS	
SIGNAL (COORDINATE IN THE HARC CONTROLS INCOME OF UNCLOSE FROM TO FINAL INSTALLION	E-100-L-A LIGHTED END SEAL (OPTIONAL)		Revision     Date
SIGNAL (COORDINATE WITH HVAC CONTROLS TRACTOR FOR VOLTAGE REQUIREMENTS FOR AUST MOTOR STARTERS PRIOR TO FINAL INSTALLTION 12 INPUT CHANNELS RCO* DVP-120 24 VRET 8 0 4 VRET 8 0 10 VRET 12 VRET 8 0 10 VRET 12 VRET 8 0 10 VRET 10	ILON AND VENILLATION OL PANEL -1 LOOP 7 +1 LOOP 6 -1 LOOP 7 -1 LOOP 7 -	DATE: CHRISTOPHEE NJ PROFESSIONAL EN NJ PROFESSIONAL EN PLANS WHICH AN EMBOSSED SE ALL DOCUMENTS PREPARE ENGINEERS AND AFFILIA SERVICE IN RESPECT OF T INTENDED OR REPRESENTE BY OWNER OR OTHERS ON I OR ON ANY OTHER PROJ WRITTEN VERIFICATION OR VERNICK ENGINEERS AND A PURPOSE INTENDED WILL B WITHOUT LIABILITY OR LEG & VERNICK ENGINEERS AND A SHALL INDEMNIFY AND HO VERNICK ENGINEERS AND A DAMAGES, LOSSES AND A	DONOT BEAR ALARENOT VALID.
	ACCOR FOR VOLTAGE REQUIREMENTS FOR UST MOTOR STARTERS PRIOR TO FINAL INSTALLTION 12 INPUT CHANNELS 	REMIN & VEF ENGI 2059 SPRING CHERRY HIL (856) 795-9595, F WEB SITE ADDRES Certification of Author	AGTON NGTON NICK NEERS GDALE ROAD, LL, NJ 08003 FAX (856) 795-1882 FS : WWW.RVE.COM ization: 24 GA 28003300



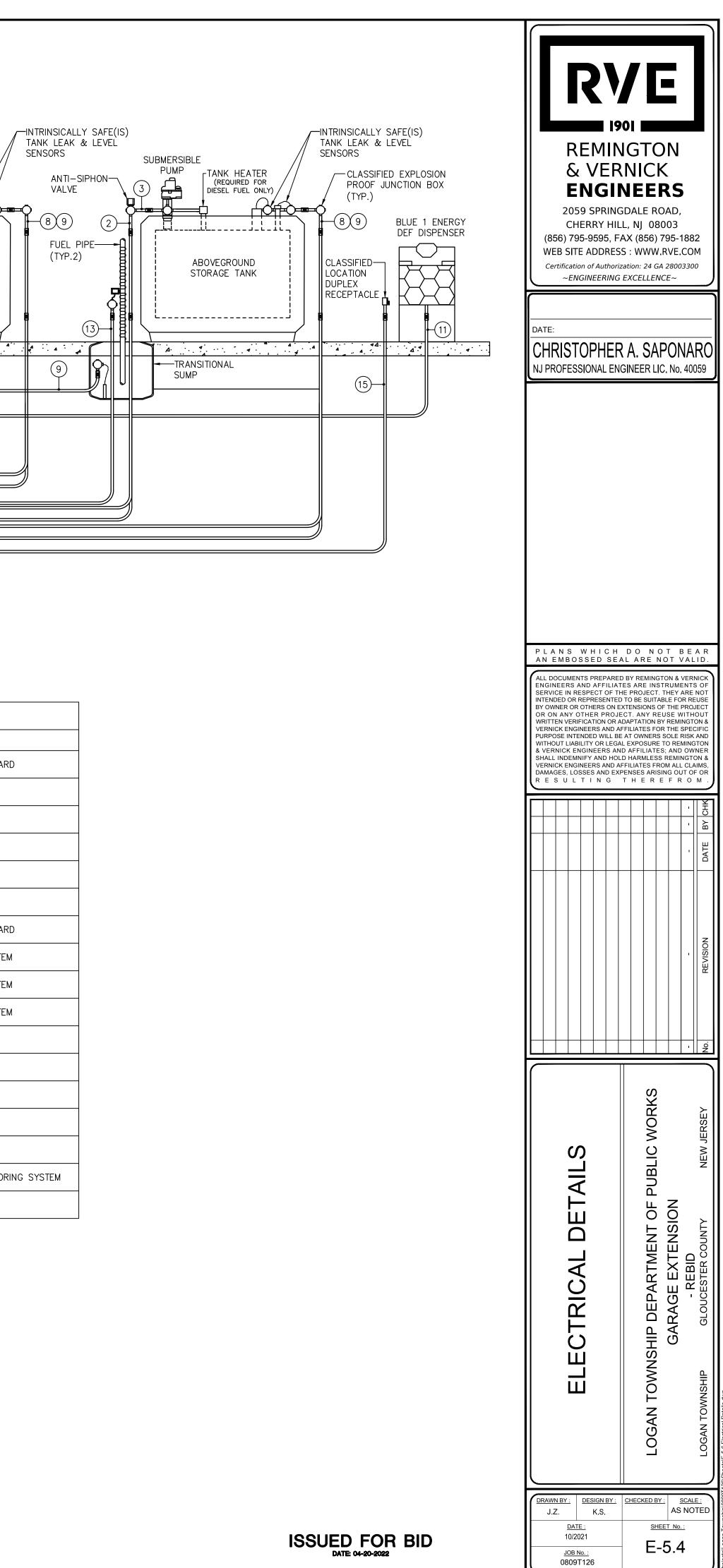




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N.T.S.

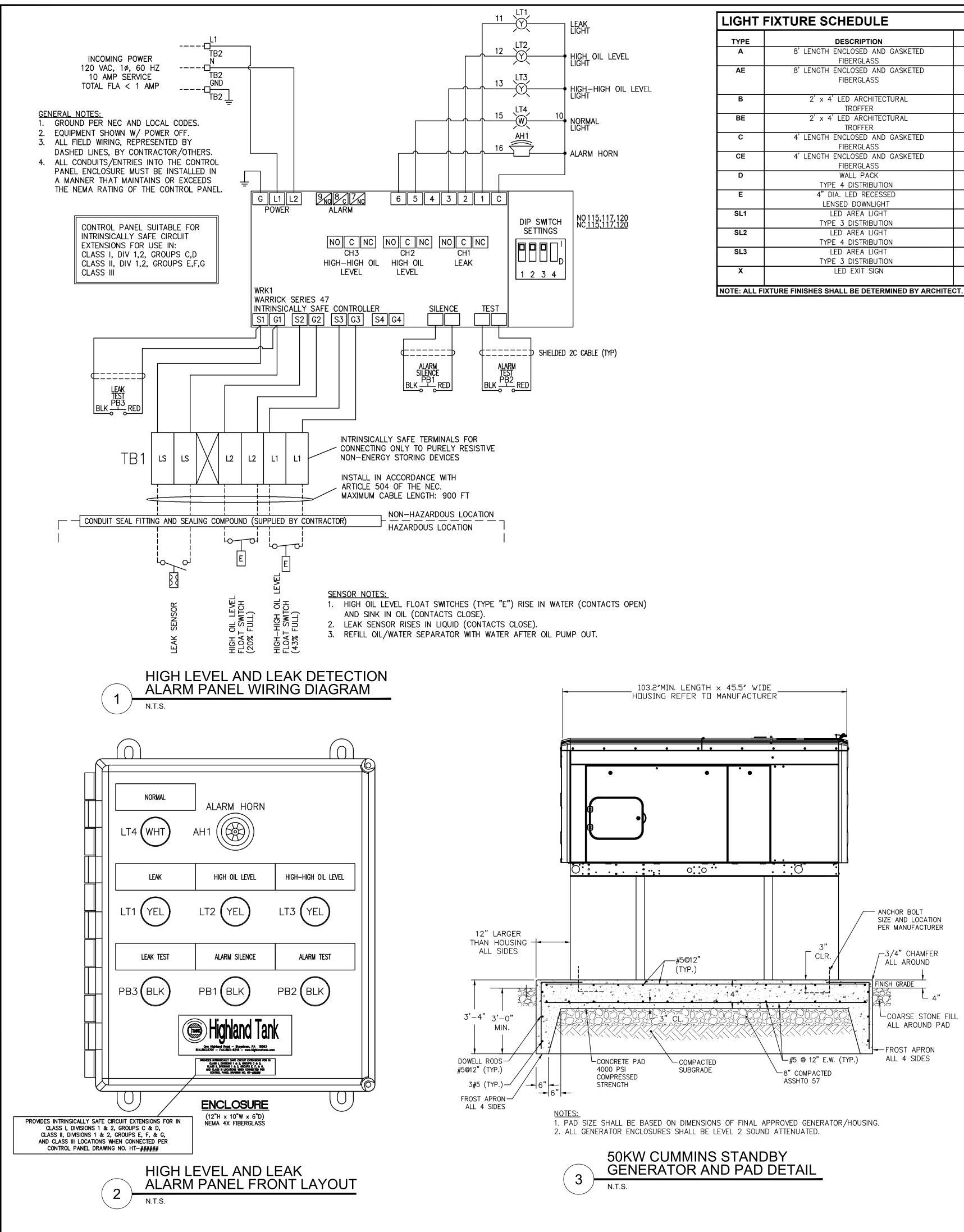
		AST FUEL SYSTEM EQUIPMEN	NT TYPICAL WIRING	
CONDUIT	DEVICE	VOLTAGE	WIRE TYPE	NOTES/COMMENTS
1	INCOMING POWER FOR DSC SYSTEM	SINGLE PHASE (208V)	(3)#1AWG & (1)#6AWG E.G IN 2"C	FROM MAIN CIRCUIT BREAKER PANELBOARD
2	ANTI-SIPHION SOLENOID VALVE(S)	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM SAFESITE DSC
3	SUBMERSIBLE PUMP(S) POWER	SINGLE PHASE (208V)	(2)#12AWG & (1)#12AWG E.G 3/4"C	FROM SAFESITE DSC
4	DIESEL DISPENSER(S) POWER	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM SAFESITE DSC
5	REMOTE EMERGENCY STOP	SINGLE PHASE (120V)	(4)#12AWG & (1)12AWG E.G IN 3/4"C	FROM SAFESITE DSC
6	FUEL MANAGEMENT SYSTEM POWER	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM SAFESITE DSC
7	VEEDER ROOT MONITORING SYSTEM POWER	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM MAIN CIRCUIT BREAKER PANELBOARD
8	VEEDER ROOT TANK MONITOR LEVEL PROBE(S)	INTRINSICALLY SAFE	BELDEN 88760, 8760, 8770 OR EQUAL IN 3/4"C	FROM VEEDER ROOT MONITORING SYSTEM
9	VEEDER ROOT TANK MONITOR LEAK SENSOR(S)	INTRINSICALLY SAFE	BELDEN 88760, 8760, 8770 OR EQUAL IN 3/4"C	FROM VEEDER ROOT MONITORING SYSTEM
10	REMOTE HIGH LEVEL ALARM & RESET ACKNOWLEDGEMENT P.B (1 PER TANK)	LOW VOLTAGE	(4)#12AWG & (1)12AWG E.G IN 3/4"C OR EQUAL	FROM VEEDER ROOT MONITORING SYSTEM
11	DIESEL & DEF DISPENSER(S) SIGNAL	LOW VOLTAGE	ETHERNET COMMUNICATION CABLE OR EQUAL	FROM FUEL MANAGEMENT SYSTEM
12	HEAT TRACE CONTROLLER POWER (REQUIRED FOR DIESEL FUEL ONLY)	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM SAFESITE DSC
13	HEAT TRACE CABLE CIRCUIT	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM HEAT TRACE CONTROLLER
14	SITE LIGHTING	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM SAFESITE DSC
15	DEF DISPENSER POWER	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM SAFESITE DSC
16	COMMUNCATION INTERFACE	LOW VOLTAGE	ETHERNET COMMUNICATION CABLE OR EQUAL	FROM FUEL MANAGEMENT SYSTEM & TANK MONITORIN
17	TANK HEATER (REQUIRED FOR DIESEL FUEL ONLY)	SINGLE PHASE (120V)	(2)#12AWG & (1)#12AWG E.G IN 3/4"C	FROM SAFESITE DSC



ΡΑ	NEL:MI	)P																	NEW	PAN	EL: P2					
VOLTA MAIN E		208Y/120V, 800A	3ø, 4W+G		x	MCB MLO	600A/3	SP (100% FULLY RATED)		_	S: 30 SUR			AIC RATING: LOCATION:			о <b>г</b>		OLTAGE: AIN BUS	•	208Y/120V, 225A	3ø, 4W+G		X MCB	200A/3I	Þ
CKT	CIRCUIT	BREAKER	BRANCH	DESCRIPTION	kVA	A PER P	PHASE	REMARKS	REMARKS			PHASE		BRANCH	CIRCL	JIT BREA	KER (	кт с	кт	CIRCUIT	BREAKER	BRANCH	DESCRIPTION	kVA PER PH		REM
#	TRIP	POLE	CIRCUIT		A 20.86	B	С			A 16.9	_	3 C			POLE		TRIP	<u>#</u> 2	<u>#</u> 1	TRIP 20	POLE 1	CIRCUIT 2A	GENERAL RECEPTACLE	A B 0.36	С	GAR
3	225	3	15C	PANEL "P1"		18.88		GARAGE 2	GARAGE 1		20.0		PANEL 'P2'	14C	3			4	-	20	1	2A	GENERAL RECEPTACLE	0.36	0.70	GAR.
5 7					8.01		17.18			17.8	3	16.3	<u> </u>					6 8	5 7	20 20	1	2A	GENERAL RECEPTACLE SPARE		0.36	GAR
9	100	3	10C	PANEL "G1"		5.97	7.15	GARAGE 2	GARAGE 1 (NOTE 1)		15.4	42 15.3	ATS	13C	3			10 12	-	20 20	1	2A	BLOCK HEATER RECEPTACLE	1.80	1.80	VIA TIN VIA TIN
11 13							7.15		(NOTE T)	0.10	)	15.	/6					14 1		20	1	2A 2A	BLOCK HEATER RECEPTACLE	1.80	1.80	VIA TIN VIA TIN
15 17				SPACE							0.1	10 0.1	SPD	3C	3			16 1 18 1		20 20	1	2A 2A	BLOCK HEATER RECEPTACLE	1.80	1.80	VIA TIN VIA TIN
19												0.1						20 1		20	1	2A	BLOCK HEATER RECEPTACLE	1.80	1.00	VIA TIN
21 23				SPACE							_	_	SPACE					22 2 24 2		20 20	1	2A 2A	BLOCK HEATER RECEPTACLE	1.80	1.80	VIA TIN VIA TIN
25 27													_					26 2	25					0.44		
27 29				SPACE							_		SPACE					28 <u>2</u> 30 2	27 29	15	1	2B	EF-4	0.44	0.44	NO
		•			28.87	24.85	5 24.33			34.8	5 35.	58 32.	18	ł	<u> </u>				31		_			0.44		
			501	TOTAL CONNECTED LOAD (AMPS	5)							тот,	AL CONNECTED LOAD (kVA)	180.66	1					15	1	2B	EF-5	0.44	0.44	NO
				-											_			3		80	7		PANEL 'G2'	7.20 7.20		
	NOTES	: 1. PROVIDE '	1/5A1/200A	F ADJUSTIBLE CIRCUIT BREAKER															41	80	3	8C	PANEL G2		4.80	
																								12.04 13.84	11.44	
NEV	PANE	L: P1																				148	TOTAL CONNECTED LOAD (AMPS	)		
VOLTAG	:	208Y/120V, 3	3ø, 4W+G		x		225A/3F	)		POLES				AIC RATING:						NOTES:	1 PROVIDE H	ACR TYPE B	RANCH CIRCUIT BREAKER FOR AL	_ MECHANICAL EC	UIPMENT	
MAIN BU CKT	JS: CIRCUIT	225A BREAKER	BRANCH	DESCRIPTION	kVA	MLO PER PH	HASE	REMARKS	REMARKS	MTG: kVA		ACE PHASE	DESCRIPTION	LOCATION: BRANCH		STORAG		т								
#	TRIP	POLE	CIRCUIT		A	В	с			A	В	С		CIRCUIT	POLE	Т	RIP j	╧┥┝╸								
1 3	20 20	1 1	2A 2A	GENERAL RECEPTACLE	0.72	0.54		STORAGE BREAK ROOM	BREAK ROOM	0.18	0.36	6	COUNTERTOP APPLIANCE GENERAL RECEPTACLE	2A 2A	1 1		20 2 20 4			EL: EF		7		<b>.</b>	47F · /-	-
5	20	1	2A	GENERAL RECEPTACLE	0.54		0.54	BREAK ROOM	EXTERIOR	0.54		0.18		2A	1		20 6		OLTAGE: AIN BUS	:	208Y/120V, 200A	3ø, 4W+G		X MCB MLO	175A/3F	<sup>9</sup> (100% FULL
7 9	20 20	1	2A 2A	GENERAL RECEPTACLE	0.54	0.36		BATHROOM GARAGE 2	GARAGE 2 GARAGE 2	0.54	0.36	5	GENERAL RECEPTACLE	2A 2A	1		20 8 20 1	с С			BREAKER	BRANCH	DESCRIPTION	kVA PER PH		REM
11 13	20 20	1	2A	GENERAL RECEPTACLE BLOCK HEATER RECEPTACLES	1.80		0.36	GARAGE 2 VIA TIMECLOCK	GARAGE 2 VIA TIMECLOCK	1.80		0.36	GENERAL RECEPTACLE	2A 2A	1		20 1		# 1	TRIP 20	POLE 1	CIRCUIT 2A	GENERAL/EXTERIOR LIGHTING	A B 0.57	С	STORAGE/E
15	20	1	2A 2A	BLOCK HEATER RECEPTACLES	1.80	1.80		VIA TIMECLOCK	VIA TIMECLOCK VIA TIMECLOCK	1.80	1.80	)	BLOCK HEATER RECEPTACLES	2A 2A	1		20 1 20 1	+ 6	3	20	1	2A	GENERAL LIGHTING	0.76	4.00	
17 19	20 20	1	2A 2A	BLOCK HEATER RECEPTACLES BLOCK HEATER RECEPTACLES	1.80		1.80	VIA TIMECLOCK VIA TIMECLOCK	VIA TIMECLOCK VIA TIMECLOCK	1.80		1.80	BLOCK HEATER RECEPTACLES BLOCK HEATER RECEPTACLES	2A 2A	1		20 1 20 2	3	5 7	20 20	1	2A	GENERAL LIGHTING SPARE		1.00	GARAGE 2 (
21	20	1	2A 2A	BLOCK HEATER RECEPTACLES	1.60	1.80		VIA TIMECLOCK	NOTE 1	1.60	0.18	3	EF-3	2A 2A	1		20 2 5 2		-	20 20	1	2A 2A	VCP-1 FACP	1.00	1.00	GARA STORA
23 25	20	1	2A	BLOCK HEATER RECEPTACLES	0.93		1.80	VIA TIMECLOCK	STORAGE ROOM	2.16		2.16	PRESSURE WASHER	3C	3	-	50 <u>2</u>	4		20				10.36	1.00	510114
25 27 29 31 33 35 37 39 41	20	3	2B	EF-1	0.35	0.93		NOTE 1		2.10	2.16			50			2			100	3	10C	EP2	8.36	7.46	GAR
29 31					0.28		0.93		NOTE 1 NOTE 1	0.46		0.46	GUH-4 GUH-1	2A 2A	1		5 3 5 3	$\frac{1}{2}$	19	20	1		SPARE		7.10	
33	15	3	2B	EF-2		0.28		NOTE 1	NOTE 1		0.46		GUH-2	2A	1		5 3			20 20	1		SPARE SPARE			
35 37					6.05		0.28		NOTE 1 VIA TIMECLOCK	1.80		0.46	GUH-3 BLOCK HEATER RECEPTACLES	2A 2A	1		5 3 20 3	6 8	25	20	1		SPARE			
39	80	3	8C	AHU-1		6.05		NOTE 1	VIA TIMECLOCK		1.80	)	BLOCK HEATER RECEPTACLES	2A	1		20 4	- 2		20	1		SPARE SPACE			
41					12.12	11.76	6.05 11.76			8.74	7.12	2 5.42	SPACE				4	┫┠					SPACE			
		г	158	TOTAL CONNECTED LOAD (AMPS)								TOTA	L CONNECTED LOAD (kVA)	56.91	I								SPACE SPACE			
		L	100	TOTAL CONNECTED LOAD (AMPS)	)							TOTA	L CONNECTED LOAD (KVA)	56.91				3					SPACE SPACE			
	NOTES:	1 PROVIDE HA	ACR TYPE BI	RANCH CIRCUIT BREAKER FOR ALL	_ MECHAN	IICAL EQ	QUIPMENT												41				SPACE			
																								10.93 10.12	9.46	
PAN	EL: EP	2																				136	TOTAL CONNECTED LOAD (AMPS	)		
VOLTAG		208Y/120V, 3	3ø, 4W+G		x		125A/3P			POLES				AIC RATING:						NOTES:	1. (*) REFEF	R TO DUCTBA	NK FOR VOLTAGE DROP CONDUCT	OR DETAILS		
MAIN BU CKT		200A BREAKER	BRANCH	DESCRIPTION		MLO PER PH	HASE	REMARKS	REMARKS	MTG: kVA		ACE PHASE	DESCRIPTION	LOCATION: BRANCH	GARAGE 1 CIRCUI	IT BREAK	KER Cł	T								
#	TRIP	POLE	CIRCUIT		A 1.50	В	С			A	В	С		CIRCUIT	POLE			┤┣								
1 3	20 20	1	2A 2A	GENERAL LIGHTING GENERAL LIGHTING	1.50	1.50		GARAGE(15 FIXTURES) GARAGE(15 FIXTURES)	GARAGE LIGHTING	0.60	1.00	)	CONTROL RELAY POWER VCP-3	2A 2A	1		20 2 20 4			PAN	EL: G1	7- 41410		х мсв	100A/3F	
5 7	20	1	2A	NETWORK SWITCH	5.76		0.60			0.10		1.00	VEEDER-ROOT CTRL PANEL	2A	1	2	20 (		OLTAGE: AIN BUS	:	208Y/120V, 100A	30, 4W+G		MLO	100A/3F	, 
7 9 11	100	3	10C	DSC PANEL	5.76	5.76		EXTERIOR		0.10	0.10	)	SPD	3C	3	3	50 <u>1</u>		кт —	CIRCUIT	BREAKER POLE	BRANCH CIRCUIT	DESCRIPTION	kVA PER PH	ASE C	REM
11 13	30	1	*	NEW MOTORIZED GATE	2.40		5.76	GATE 1				0.10	SPARE		1		1 20 1		<i>n</i> 1					0.75		
15	20	1		SPARE									SPARE		1	2	20 1	<u>-</u> 5 – –	3 5	15	3	2B	EUH-1	0.75	0.75	STORAG (NO
17 19	20 20	1		SPARE SPARE									SPARE SPARE		1	1	20 1 20 2		7	30	2	3B	OVERHEAD DOOR	1.20		GAR
21	20	1		SPARE								_	SPARE		1	2	20 2		9 11	30	2	3B	OVERHEAD DOOR	1.20	1.20	GAR
23 25				SPACE SPACE									SPACE SPACE				2	4 6	13					1.20		
27 29				SPACE SPACE			$\mid$						SPACE SPACE				2			30	2	3B	OVERHEAD DOOR	1.20	1.20	GAR
31				SPACE									SPACE				3	2	19	20	1	3A 2A	COOLANT HEATER BATTERY CHARGER	1.50 0.29		GENSET AC
33 35				SPACE SPACE									SPACE SPACE				3			20 20	1	2A 2A	CTRL PANEL HEATER		0.60	GENSET AC
37				SPACE									SPACE				3	B 2	25	20 20	1	2A	BATTERY HEATER SPARE	0.96		GENSET AC
39 41				SPACE SPACE					+				SPACE SPACE				4	2	29	20	1		SPARE			
<u> </u>					9.66	7.26	6.36		-	0.70	1.10	) 1.10					17						SPACE SPACE	+ $+$		
		Г	73	TOTAL CONNECTED LOAD (AMPS)	)							TOTA	L CONNECTED LOAD (kVA)	26.18				5	35				SPACE			
		L		-									、 /					3					SPACE SPACE			
	NOTES:	i. (*) REFER	IU DUCTBAI	NK FOR VOLTAGE DROP CONDUCTO	UR DETAIL	LS													41				SPACE			
																		1					_	5.61 3.44	<i>3</i> .75	
																						59	TOTAL CONNECTED LOAD (AMPS	)		

/OLTAG	E:	208Y/120V,	3ø, 4W+G		x	мсв	225A/3F	)
AIN B	JS:	225A				MLO	•	
скт	CIRCUIT	BREAKER	BRANCH	DESCRIPTION	kVA	PER PH	HASE	REMARKS
#	TRIP	POLE	CIRCUIT		Α	В	С	
1	20	1	2A	GENERAL RECEPTACLE	0.72			STORAGE
3	20	1	2A	GENERAL RECEPTACLE		0.54		BREAK ROOM
5	20	1	2A	GENERAL RECEPTACLE			0.54	BREAK ROOM
7	20	1	2A	GENERAL RECEPTACLE	0.54			BATHROOM
9	20	1	2A	GENERAL RECEPTACLE		0.36		GARAGE 2
11	20	1	2A	GENERAL RECEPTACLE			0.36	GARAGE 2
13	20	1	2A	BLOCK HEATER RECEPTACLES	1.80			VIA TIMECLOCK
15	20	1	2A	BLOCK HEATER RECEPTACLES		1.80		VIA TIMECLOCK
17	20	1	2A	BLOCK HEATER RECEPTACLES			1.80	VIA TIMECLOCK
19	20	1	2A	BLOCK HEATER RECEPTACLES	1.80			VIA TIMECLOCK
21	20	1	2A	BLOCK HEATER RECEPTACLES		1.80		VIA TIMECLOCK
23	20	1	2A	BLOCK HEATER RECEPTACLES			1.80	VIA TIMECLOCK
25					0.93			
27	20	3	2B	EF-1		0.93		NOTE 1
29							0.93	
31					0.28			
33	15	3	2B	EF-2		0.28		NOTE 1
35							0.28	
37					6.05			
39	80	3	8C	AHU-1		6.05		NOTE 1
41							6.05	
					12.12	11.76	11.76	

		POLES:		CF.							/E
S	REMARKS	kVA	SURFA	HASE	DESCRIPTION	BRANCH		BREAKER	СКТ		
2	GARAGE 2	A 0.36	В	С	GENERAL RECEPTACLE	CIRCUIT 2A	POLE 1	TRIP 20	#2		
2 2	GARAGE 2 GARAGE 2		0.36	0.36	GENERAL RECEPTACLE	2A 2A	1	20 20	4 6		IGTON
	VIA TIMECLOCK		4.00		BLOCK HEAT RECEPTACLE	2A	1	20	8	& VEF	
OCK OCK	VIA TIMECLOCK VIA TIMECLOCK		1.80	1.80	BLOCK HEAT RECEPTACLE BLOCK HEAT RECEPTACLE	2A 2A	1	20 20	10 12		NEERS
оск оск	VIA TIMECLOCK VIA TIMECLOCK	1.80	1.80		BLOCK HEAT RECEPTACLE BLOCK HEAT RECEPTACLE	2A 2A	1	20 20	14 16	_	GDALE ROAD,
ОСК	VIA TIMECLOCK			1.80	BLOCK HEAT RECEPTACLE	2A	1	20	18		L, NJ 08003
OCK OCK	VIA TIMECLOCK VIA TIMECLOCK	1.80	1.80		BLOCK HEAT RECEPTACLE BLOCK HEAT RECEPTACLE	2A 2A	1	20 20	20 22	· ,	AX (856) 795-1882 SS : WWW.RVE.COM
ОСК	NOTE 1 NOTE 1	0.46		0.46	GUH-5 GUH-6	2A 2A	1	15 15	24 26		zation: 24 GA 28003300
	NOTE 1	0.40	0.46		GUH-7	2A 2A	1	15	28	~ENGINEERING	FEXCELLENCE~
	NOTE 1 NOTE 1	0.46		0.46	GUH-8 GUH-9	2A 2A	1	15 15	30 32	Í	
									34	DATE:	
									36 38	CHRISTOPHER	R A. SAPONARC
									40 42		GINEER LIC. No. 40059
		4.88	6.22	4.88					12		
				TOTAL	CONNECTED LOAD (kVA)	53.30					
TED)		POLES: MTG:		CE		AIC RATIN	G: 22,000 GARAGE 2	STORAGE R	00M		
	REMARKS	kVA	PER PI	HASE	DESCRIPTION	BRANCH	CIRCU	JIT BREAKER	CKT		
ROOM	GARAGE 2 (12 FIXTURES	A S) 1.00	В	С	GENERAL LIGHTING	CIRCUIT 2A	POLE 1	TRIP 20	# 2		
om Xtures)	GARAGE LIGHTING BREAK ROOM		0.60	0.60	RELAY CONTROL POWER NETWORK SWITCH	2A 2A	1	20 20	4		
	EXTERIOR			5.00	SITE LIGHT	*	1	20	8		
ОМ	WASH BAY			1.00	SPARE VCP-2	2A	1	20 20	10 12		
	EXTERIOR	1.20		$\left  - \right $	OIL SEPARATOR ALARM PANE SPARE	<u>L 2A</u> 2A	1	20 20	14 16		
		_			SPARE	2A 2A	1	20	18		DO NOT BEAR AL ARE NOT VALID.
		4.70	4.70		WET WELL CTRL PNL	*	3	60	20 22		D BY REMINGTON & VERNICK TES ARE INSTRUMENTS OF
				4.70			1		24 26	SERVICE IN RESPECT OF T INTENDED OR REPRESENTE	HE PROJECT. THEY ARE NOT D TO BE SUITABLE FOR REUSE EXTENSIONS OF THE PROJECT
					SPARE SPARE		1	20	28	OR ON ANY OTHER PROJ WRITTEN VERIFICATION OR	ECT. ANY REUSE WITHOUT ADAPTATION BY REMINGTON &
					SPACE SPACE				30 32	PURPOSE INTENDED WILL B WITHOUT LIABILITY OR LEG/	AFFILIATES FOR THE SPECIFIC E AT OWNERS SOLE RISK AND AL EXPOSURE TO REMINGTON
					SPACE				34	SHALL INDEMNIFY AND HO	ND AFFILIATES; AND OWNER LD HARMLESS REMINGTON &
					SUAPE	1			70		FFILIATES FROM ALL CLAIMS,
					SPACE SPACE				36 38		PENSES ARISING OUT OF OR
										DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR THEREFROM
		6.90	5.30	6.30	SPACE SPACE				38 40	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR
		6.90	5.30		SPACE SPACE	49.01			38 40	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR THEREFROM
		6.90	5.30		SPACE SPACE SPACE	49.01			38 40	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR THEREFROM THEREFROM T
		6.90	5.30		SPACE SPACE SPACE	49.01			38 40	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR THEREFROM
		6.90	5.30		SPACE SPACE SPACE	49.01			38 40	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR THEREFROM
		6.90 POLES:			SPACE SPACE SPACE	AIC RATING:	22,000		38 40	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M H H H H H H H H H H H H H
	REMARKS	POLES: MTG:	42 SURFA	TOTAL C	SPACE SPACE SPACE CONNECTED LOAD (kVA)	AIC RATING: LOCATION:	GARAGE 2 S		38 40 42	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M H H H H H H H H H H H H H
	REMARKS	POLES: MTG:	42	TOTAL C	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION	AIC RATING:	GARAGE 2 S CIRCUIT POLE	BREAKER TRIP	38 40 42 42 CKT	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR THEREFROM
	REMARKS GARAGE 2	POLES: MTG: kVA	42 SURFA	TOTAL CE HASE	SPACE SPACE SPACE CONNECTED LOAD (kVA)	AIC RATING: LOCATION: BRANCH	GARAGE 2 S CIRCUIT	BREAKER	38 40 42 42 CKT	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M H H H H H H H H H H H H H
	GARAGE 2	POLES: MTG: kVA A	42 SURFA PER PI B	TOTAL CE HASE	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION SPARE OVERHEAD DOOR	AIC RATING: LOCATION: BRANCH CIRCUIT 3B	GARAGE 2 S CIRCUIT POLE 2 2	BREAKER TRIP 20 30	38 40 42 42 CKT # 2 4 6	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M H H H H H H H H H H H H H
	GARAGE 2 GARAGE 2	POLES: MTG: kVA	42 SURFA PER PI B	CE HASE C	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION SPARE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2	BREAKER TRIP 20	38 40 42 42 CKT # 2 4 6 8 10	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M HO HO HO HO HO HO HO HO HO HO
ЭМ	GARAGE 2	POLES: MTG: kVA A	42 SURFA PER PI B 1.20	CE HASE C	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION SPARE OVERHEAD DOOR	AIC RATING: LOCATION: BRANCH CIRCUIT 3B	GARAGE 2 S CIRCUIT POLE 2 2	BREAKER TRIP 20 30	38 40 42 42 CKT # 2 4 6 8 10 12	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M H H H H H H H H H H H H H
	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER PI B 1.20	CE HASE C 1.20 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2 2 2 2 2 2 2 2 1	BREAKER TRIP 20 30 30 30 30 20	38 40 42 42 CKT # 2 4 6 8 10 12 14 16	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M HO HO HO HO HO HO HO HO HO HO
	GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER Pl B 1.20 1.20	CE HASE C 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2 2 2 2 2 2	BREAKER TRIP 20 30 30 30 30	38 40 42 42 CKT # 2 4 6 8 10 12 14	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M HO HO NOS NO NO NO NO NO NO NO NO NO NO
SSORY SSORY	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER Pl B 1.20 1.20	CE HASE C 1.20 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1 GWH-1 RECEPTACLE SPARE SPARE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2 2 2 2 2 2 1 1 1 1 1	BREAKER TRIP 20 30 30 30 20 20 20 20 20 20	38 40 42 42 CKT # 2 4 6 8 10 12 14 16 18 20 22	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M HO HO NOS NO NO NO NO NO NO NO NO NO NO
SSORY SSORY SSORY	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER Pl B 1.20 1.20	CE HASE C 1.20 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1 GWH-1 RECEPTACLE SPARE SPARE SPARE SPARE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B 3B 3B 3B	GARAGE         2         S           CIRCUIT         POLE         2           2         2         2           2         2         2           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1	BREAKER TRIP 20 30 30 30 30 20 20 20 20 20 20 20 20 20 20 20	38         40         42         42         6         8         10         12         14         16         18         20         22         24         26	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M HO HO NOS NO NO NO NO NO NO NO NO NO NO
SSORY SSORY SSORY	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER Pl B 1.20 1.20	CE HASE C 1.20 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1 GWH-1 RECEPTACLE SPARE SPARE SPARE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2 2 2 2 2 2 1 1 1 1 1 1 1 1	BREAKER TRIP 20 30 30 30 20 20 20 20 20 20 20 20 20	38 40 42 42 CKT # 2 4 6 8 10 12 14 16 18 20 22 24	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M HO HO NOS NO NO NO NO NO NO NO NO NO NO
SSORY SSORY SSORY	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER Pl B 1.20 1.20	CE HASE C 1.20 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1 GWH-1 RECEPTACLE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	BREAKER TRIP 20 30 30 30 20 20 20 20 20 20 20 20 20 2	38         40         42         42         6         8         10         12         14         16         18         20         22         24         30         32	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M HO HO NOS NO NO NO NO NO NO NO NO NO NO
SSORY SSORY SSORY	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER Pl B 1.20 1.20	CE HASE C 1.20 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1 GWH-1 RECEPTACLE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	BREAKER TRIP 20 30 30 30 20 20 20 20 20 20 20 20 20 2	38         40         42         42         5         42         6         8         10         12         14         16         18         20         24         30         32         34         36		PENSES ARISING OUT OF OR T H E R E F R O M H H E R E F R O M H H E R E F R O M H H H H H H H H H H H H H H H H H H H
SSORY SSORY SSORY	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER Pl B 1.20 1.20	CE HASE C 1.20 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1 GWH-1 RECEPTACLE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	BREAKER TRIP 20 30 30 30 20 20 20 20 20 20 20 20 20 2	38         40         42         42         6         8         10         12         14         16         18         20         22         24         6         8         100         12         14         16         18         20         22         24         30         32         34	DAMAGES, LOSSES AND EX	PENSES ARISING OUT OF OR T H E R E F R O M HO HO HO NO NEXEN NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME NEME
OM 2 2 ESSORY ESSORY ESSORY	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A I I.20	42 SURFA PER Pl B 1.20 1.20	CE HASE C 1.20 1.20	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1 GWH-1 RECEPTACLE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 3B 3B 3B 3B	GARAGE 2 S CIRCUIT POLE 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	BREAKER TRIP 20 30 30 30 20 20 20 20 20 20 20 20 20 2	38         40         42         42         6         8         10         12         14         6         8         10         12         14         6         8         10         12         14         36         38		
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SSORY SSORY SSORY	GARAGE 2 GARAGE 2 GARAGE 2 GARAGE 2	POLES: MTG: kVA A 1.20 1.20 1.20	42 SURFAI PER PI B 1.20 1.20 1.20 0.13 0.13 0.13	TOTAL CE HASE C 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2	SPACE SPACE SPACE CONNECTED LOAD (kVA) DESCRIPTION DESCRIPTION SPARE OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR OVERHEAD DOOR RP-1 GWH-1 RECEPTACLE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPACE SPACE SPACE SPACE SPACE SPACE	AIC RATING: LOCATION: BRANCH CIRCUIT 3B 3B 3B 3B 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A	GARAGE 2 S CIRCUIT POLE 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	BREAKER TRIP 20 30 30 30 20 20 20 20 20 20 20 20 20 2	38         40         42         42         CKT         #         2         4         6         8         10         12         14         16         18         20         22         24         26         28         300         32         34         36         38         40		PENSES ARISING OUT OF OR T H E R E F R O M H E R E F R O M H E R E F R O M H H A H A H A H A H A H A H A H A H A H
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	LIGHT FI	XTURE SCHEDULE			
	ТҮРЕ	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG
LEVEL	A	8' LENGTH ENCLOSED AND GASKETED FIBERGLASS	DIRECT LINEAR PENDANT	COLUMBIA LIGHTING	LXEM8-35HL-
	AE	8' LENGTH ENCLOSED AND GASKETED FIBERGLASS	DIRECT LINEAR PENDANT	COLUMBIA LIGHTING	LXEM8-35HL-RFA
H OIL LEVEL					
	В	2' x 4' LED ARCHITECTURAL TROFFER	RECESSED	COLUMBIA LIGHTING	LCAT24-35WG
	BE	2' x 4' LED ARCHITECTURAL TROFFER	RECESSED	COLUMBIA LIGHTING	LCAT24-35WG-R-
	С	4' LENGTH ENCLOSED AND GASKETED FIBERGLASS	DIRECT LINEAR PENDANT	COLUMBIA LIGHTING	LXEM4-35HL-
RN	CE	4' LENGTH ENCLOSED AND GASKETED FIBERGLASS	DIRECT LINEAR PENDANT	COLUMBIA LIGHTING	LXEM4-35HL-RFA
	D	WALL PACK TYPE 4 DISTRIBUTION	WALL	HUBBELL OUTDOOR	RWL2-160L-45-
	E	4" DIA. LED RECESSED LENSED DOWNLIGHT	RECESSED	INTENSE LIGHTING	MXTG2-RTRD302V
7,120 7,120	SL1	LED AREA LIGHT TYPE 3 DISTRIBUTION	POLE	HUBBELL OUTDOOR	RAR1-160L-100-4K7 SSS-H-20-
<u></u>	SL2	LED AREA LIGHT TYPE 4 DISTRIBUTION	POLE	HUBBELL OUTDOOR	RAR1-160L-100-4K7 SSS-H-20-
	SL3	LED AREA LIGHT TYPE 3 DISTRIBUTION	POLE	HUBBELL OUTDOOR	RAR1-160L-115-4K7- SSS-H-20-
	x	LED EXIT SIGN	WALL	JAWS SERIES	JAWS-6-12VR-2

OLTAC	GE:	208Y/120V,	3ø, 4W+G			МСВ			
MAIN BUS: 150A							MLO		
CKT CIRCUIT		BREAKER	BRANCH DESCRIPTION			PER PHASE			
#	TRIP	POLE	CIRCUIT		А	В	С		
1	20	1	2A	INTERIOR LIGHTING	EXIST.				
3	20	1	2A	EXTERIOR LIGHTING		EXIST.			
5	20	1	2A	FACP					
7	20	1	2A	EXHAUST FAN #1	EXIST.				
9	20	1	2A	EXHAUST FAN #2		EXIST.			
11	20	1	2A	GUH-1			EXIST.		
13	20	1	2A	GUH-2	EXIST.				
15	20	1	2A	GUH-3		EXIST.			
17	20	1	2A	EWH-1			EXIST.		
19	20	1		SPARE					
21	20	1		SPARE					
23	20	1		SPARE					
25	30	1	*	NEW MOTORIZE GATE	2.40				
27				SPACE					
29				SPACE					
31				SPACE					
33				SPACE					
35				SPACE					
37				SPACE					
39				SPACE					
41				SPACE					

7 TOTAL CONNECTED LOAD (AMPS)

NOTES: 1. (\*) REFER TO DUCTBANK FOR VOLTAGE DROP CONDUCTOR DETAILS 2

VOLTAGE: 208Y/120V, 3			3ø, 4W+G		мсв		
MAIN BUS:		100A		х	MLO		
CKT CIRCU		BREAKER	BRANCH	DESCRIPTION	kVA	PER PHASE	
#	TRIP	POLE	CIRCUIT		Α	В	С
1	30	2	3B	OVERHEAD DOOR	1.20		
3						1.20	
5	30	2	3B	OVERHEAD DOOR			1.20
7					1.20		
9	30	2	3B	OVERHEAD DOOR		1.20	
11							1.20
13	30	2	3B	OVERHEAD DOOR	1.20		
15						1.20	
17	20	1		SPARE			
19	20	1		SPARE			
21	20	1		SPARE			
23	20	1		SPARE			
25				SPACE			
27				SPACE			
29				SPACE			
31				SPACE			
33				SPACE			
35				SPACE			
37				SPACE			
39				SPACE			
41				SPACE			

53 TOTAL CONNECTED LOAD (AMPS)

NOTES:

