

1. THE 2024 INTERNATIONAL BUILDING CODE NEW JERSEY EDITION, THE LATEST EDITION OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE AND THE BARRIER FREE SUBCHAPTER 7, AND THE ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES ICC A117.1-2009 SHALL ESTABLISH THE CRITERIA FOR ALL DESIGN AND CONSTRUCTION.
2. THE CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK. HE SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER FOR CORRECTION PRIOR TO BEGINNING ANY WORK. DISCOVERY OF DISCREPANCIES AFTER THE WORK HAS COMMENCED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. DO NOT SCALE THESE DRAWINGS FOR EXACT DIMENSIONS, VERIFY ALL FIGURES, CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
4. THE CONTRACTOR SHALL SECURE THE BUILDING PERMITS AND ALL OTHER PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK WHICH ARE CUSTOMARILY SECURED AFTER EXECUTION OF THE CONTRACT. SUBMIT COPIES OF PERMITS TO THE OWNER, PRIOR TO THE START OF THE WORK.
5. ALL MATERIAL COLOR SELECTIONS SHALL BE BY OWNER.
6. THE CONTRACTOR SHALL EXERCISE UTMOST CARE TO AVOID CAUSING DAMAGE TO ANY EXISTING STRUCTURES. IF THE EXISTING STRUCTURES ARE DAMAGED, IT SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER, WITHOUT COST TO THE OWNER.
7. THE CONTRACTOR IS ADVISED THAT THE SITE WILL BE OCCUPIED DURING THE ENTIRE CONSTRUCTION PERIOD. COORDINATE WORK SCHEDULE AS APPROVED BY OWNER.
8. THE CONTRACTOR IS RESPONSIBLE TO PROMPTLY AND LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS DAILY.
9. THE CONTRACTOR SHALL PERFORM AND INSTALL ALL NEW WORK IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND/OR REQUIREMENTS.
10. PROVIDE THE FOLLOWING INSULATION VALUES:
FLOOR: R-30
ROOF: R-49
EXTERIOR WALLS: R-21
INTERIOR WALLS: R-11 SOUND REDUCTION
11. THE CONTRACTOR SHALL PROVIDE ROOM SIGNS FOR ALL ROOMS. REFER TO THE SPECIFICATIONS FOR SIGN REQUIREMENTS.

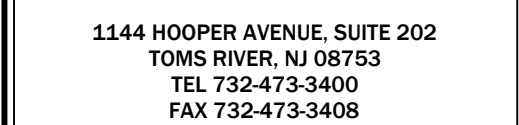
1. THE BASE BID ITEM FOR THE MODULAR BUILDING COMPLETE SHALL INCLUDE THE FABRICATED MODULAR BUILDING COMPLETE, DELIVERED, AND INSTALLED ON THE CONSTRUCTED FOUNDATION SYSTEM. THIS BID ITEM SHALL CONSIST OF DETAILED SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A NJ LICENSED PROFESSIONAL ENGINEER AND NJ LICENSED PROFESSIONAL ARCHITECT OF THE FOUNDATION CONCRETE PAD AND TURN DOWN FOOTING AND BUILDING AND ALL BUILDING SYSTEMS, THIRD PARTY INSPECTIONS DURING MODULAR CONSTRUCTION, DELIVERY OF THE BUILDING, INSTALLATION OF THE BUILDING ON THE CONSTRUCTED FOUNDATION SYSTEM AS PART OF THIS ITEM, AND COMPLETE RAMP, STAIRS, FINISHED MECHANICAL, ELECTRICAL, LIGHTING, AND PLUMBING SYSTEMS, AND FLOOR, WALL, CEILING, ROOFING, EXTERIORS COMPLETE AND READY FOR TOWNSHIP OCCUPATION.



LITTLE EGG HARBOR TOWNSHIP

DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS

FLOOR PLAN AND BUILDING ELEVATIONS



NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

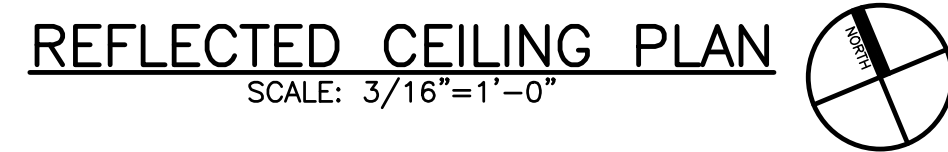
OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

DESIGNED BY	
CHECKED BY	
DRAWN BY	
DATE	10/7/20
SCALE	AS NOTED
PROJ. NO.	LEHTO19

DRAWING
B-1

SHEET
15
OF **37**

USE GROUP B (BUSINESS)
CONSTRUCTION TYPE 2C
SQUARE FEET: 2,520 S.F.



DOOR SCHEDULE											
LOCATION	ROOM/DOOR No.	TYPE	UL CLASS FIRE RATING	SIZE	MAT.	FIN.	FRAME	FRAME FINISH	THRESHOLD	HARDWARE	
PUBLIC ENTRY	101-01	1	0	3'w6'-10'H	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 5, 7	
OFFICE	107-02	2	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 5, 7	
OFFICE	108-03	2	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 5, 7	
OFFICE	109-04	2	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 5, 7	
RECEPTION	102-05	3	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 3, 5	
BREAK ROOM	106-06	3	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 3, 5	
WOMENS RESTROOM	103-07	2	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 3, 8, 9, 10	
MENS RESTROOM	110-08	2	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 3, 8, 9, 10	
MENS LOCKER ROOM	111-09	2	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 3, 8, 9, 10	
JANITORS ROOM	105-010	2	0	3'x6'-8"	WOOD/SOLID CORE	WOOD FINISH	METAL	PAINTED	—	1, 4, 7	
PUBLIC ENTRY	101-011	3	0	3'x6'-8"	METAL/INSULATED	PAINTED	METAL	PAINTED	ALUMINUM	1, 2, 3, 6, 11	
BREAK ROOM	106-012	3	0	3'x6'-8"	METAL/INSULATED	PAINTED	METAL	PAINTED	ALUMINUM	1, 2, 3, 6, 11	
BREAK ROOM	106-013	2	0	3'x6'-8"	METAL/INSULATED	PAINTED	METAL	PAINTED	ALUMINUM	1, 2, 3, 6, 11	

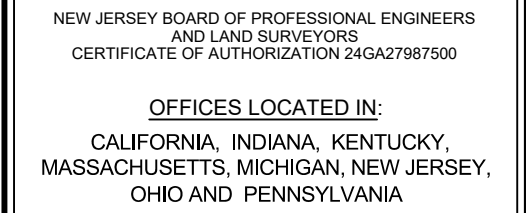


1 - HINGES 3 - HAGAR BB1279x4.5"x4.5"
2 - WEATHERSTRIPING HAGAR JAMB
3 - CLOSER LCN 4040 XP
4 - SCHLAGE GRADE 1 LEVER LOCK (INTERIOR)
5 - SCHLAGE LEVER LATCH (NO LOCK, INTERIOR)
6 - SCHLAGE MORTISE LEVER LOCK (EXTERIOR)

1. PROVIDE HARDWARE IN 652 FINISH (SATIN CHROME).
2. PROVIDE HARDWARE BY THE MANUFACTURER SPECIFIED OR APPROVED EQUAL.

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. GE49287

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY
IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP OCEAN COUNTY, NEW JERSEY
REFLECTED CEILING PLAN AND
INTERIOR ELEVATIONS



DESIGNED BY	RW	DRAWING	B-2
CHECKED BY	JW		
DRAWN BY	DEL	SHEET	16
DATE	10/7/2026		
SCALE	AS NOTED		
PROJ. NO.	LEHTO1952		

3. ALL WORK SHALL CONFORM TO THE 2021 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION, AND ASCE/SEI 7-16 "MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES".
2. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL NATIONALLY ACCEPTED SAFETY PRACTICES, APPLICABLE SAFETY CODES AND ANY OTHER PARTIES THAT MAY HAVE JURISDICTION OVER SAFETY.
3. NO STRUCTURAL MEMBERS (BEAMS, JOISTS, GIRDERS, BEARING WALLS, SLABS, DECKS, COLUMNS, BRIDGING, BRACING, ETC.) SHALL BE CUT OR ALTERED UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, CONSTRUCTION TECHNIQUES, SEQUENCE OF CONSTRUCTION, ETC. TO ENSURE THE SAFETY OF HIS EMPLOYEES AND THE GENERAL PUBLIC AT ALL TIMES. JOBSITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL VERIFY AND/OR ESTABLISH ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE BEFORE ORDERING ANY MATERIAL OR COMMENCEMENT OF ANY WORK. CONTRACTOR IS SOLELY RESPONSIBLE FOR SURVEYING AND VERIFICATION OF EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING WALLS AND STRUCTURAL MEMBERS.
6. THE CONTRACTOR SHALL COORDINATE OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS AND DEPRESSIONS SHOWN ON THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND TYPICAL DETAILS.
7. CONTRACTOR SHALL COORDINATE ALL RELATED TRADE ACTIVITY REGARDING SHUT-DOWNS, RE-ROUTING, TEMPORARY INSTALLATION, ETC. WITH THE OWNER'S REPRESENTATIVE.
8. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION TO THE DETAILS SHOWN ON THE CONTRACT DOCUMENTS. DO NOT COMMENCE WORK UNTIL CONDITION IS RESOLVED AND MODIFICATION IS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
9. SHOP DRAWINGS FOR ALL STRUCTURAL MATERIALS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF FABRICATION AND COMMENCEMENT OF WORK. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS MET ALL CONSTRUCTION CRITERIA, MATERIALS ARE SIMILAR DATA, AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT PROPER STORAGE OF MATERIAL IS MAINTAINED SO AS NOT TO CAUSE OVERLOADING OF THE EXISTING STRUCTURE OR NEW STRUCTURE DURING PERFORMANCE OF THIS WORK. ALL MATERIALS SHALL BE STORED TO PROTECT THEM FROM EXPOSURE TO THE ELEMENTS.
11. ALL COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR REMOVAL OR INSTALLATION OF STRUCTURAL ELEMENTS OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
12. ANY FRAMING MEMBERS OR SUPPORTS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE DESIGNED AND PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.

1. PERFORM ALL SITE PREPARATION AND EXCAVATION WORK IN STRICT ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY DIGNEO, REPORT NUMBER 26074.01, DATED JULY 28, 2026.
2. EXCAVATE THE BUILDING SITE TO THE DEPTH AND EXTENT INDICATED IN THE SOILS REPORT. ALL SUBGRADE SHALL BE APPROVED IN WRITING BY THE SOILS ENGINEER PRIOR TO BACKFILLING.
3. BOTTOM OF FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2500 POUNDS PER SQUARE FOOT. FOUNDATIONS BEARING ON SOIL EXPOSED TO OUTSIDE AMBIENT AIR TEMPERATURES SHALL EXTEND A MINIMUM OF 3'-0" BELOW GRADE.
4. BOTTOM OF ALL FOOTINGS SHALL BE INSPECTED AND APPROVED BY A LICENSED PROFESSIONAL ENGINEER OR QUALIFIED GEOTECHNICAL ENGINEER, HIRED BY THE OWNER, IMMEDIATELY BEFORE PLACING ANY CONCRETE. THE GEOTECHNICAL ENGINEER SHALL PROVIDE WRITTEN CERTIFICATION THAT THE SOIL IS ADEQUATE TO SAFELY SUSTAIN THE SPECIFIED SOIL BEARING PRESSURE AND DESIGN PARAMETERS LISTED ABOVE.
5. CONCRETE FOOTINGS AND FOUNDATIONS SHALL BE CONSTRUCTED WITH WOOD FORMS OR OTHER APPROVED FORM MATERIALS. EARTH FORMS ARE NOT PERMITTED.
6. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL IN WRITING FROM THE STRUCTURAL ENGINEER.
7. THE CONTRACTOR SHALL OBSERVE WATER CONDITIONS AT THE SITE AND TAKE THE NECESSARY PRECAUTIONS TO ENSURE THAT THE FOUNDATION EXCAVATIONS REMAIN DRY DURING CONSTRUCTION, ANY SHEETING OR SHORING REQUIRED FOR DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE EDITION OF THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318), THE ACI DETAILING MANUAL (ACI SP-66), AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301).

2. REINFORCING IN CONCRETE SLABS ON GRADE SHALL BE SUPPORTED WITH CHAIRS/BOLSTERS TO MAINTAIN REINFORCING AT THE POSITIONS INDICATED ON THE DRAWINGS. SPACING OF SUPPORTS SHALL CONFORM TO THE WIRE REINFORCEMENT INSTITUTE "MANUAL OF STANDARD PRACTICE" (WWR-500), LATEST EDITION.

3. ALL CONCRETE SHALL BE NORMAL WEIGHT, READY-MIX CONCRETE, BATCHED, MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS, WITH A MAXIMUM WATER CEMENT RATIO OF 0.45 BY WEIGHT. CEMENT SHALL CONFORM TO ASTM C150, TYPE I, WITH A MAXIMUM AGGREGATE SIZE OF 3/4 INCH, CONFORMING TO ASTM C33. SLUMP AT POINT OF CONCRETE PLACEMENT SHALL BE THREE (3) INCH MINIMUM AND SIX (6) INCH MAXIMUM. CONCRETE EXPOSED TO WEATHER SHALL HAVE 6 PERCENT AIR ENTRAINMENT.

4. SUBMIT CONCRETE MIX DESIGNS AND ASSOCIATED PRODUCT DATA, IN ACCORDANCE WITH ACI 301, TO THE STRUCTURAL ENGINEER FOR REVIEW, A MINIMUM OF TWO WEEKS PRIOR TO CONCRETE PLACEMENT. CONCRETE MIX DESIGN SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO, COMPRESSIVE STRENGTH TEST RESULTS, UNIT WEIGHT AND MIX PROPORTIONS. PRODUCT DATA SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO, CEMENT MILL TEST CERTIFICATE, AGGREGATE GRADATION, ADMIXTURE MANUFACTURER DATA SHEETS AND COMPATIBILITY LETTER. ADMIXTURES SHALL BE FROM A SINGLE SOURCE MANUFACTURER.

5. TESTING OF COMPOSITE SAMPLES OF CONCRETE SHALL BE PERFORMED AT THE FREQUENCY INDICATED IN ACI 318. PER ASTM C172, CAST AND LABORATORY CURE, PER ASTM C31, ONE SET OF FOUR STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE. PERFORM COMPRESSIVE STRENGTH TESTS, PER ASTM C39, FOR TWO LABORATORY-CURED SPECIMENS AT SEVEN DAYS AND TWO SPECIMENS AT 28 DAYS. OWNER TO RETAIN INDEPENDENT TESTING AND INSPECTION AGENCY. TEST CONCRETE SLUMP PER ASTM C143 AND AIR CONTENT PER ASTM C231. SUBMIT CONCRETE TEST REPORTS TO THE ENGINEER FOR RECORD.

6. DURING CONSTRUCTION, IF ANY CONCRETE FAILS TO MEET THE ACCEPTANCE CRITERIA, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL TAKE SUCH STEPS AS DEEMED NECESSARY BY THE STRUCTURAL ENGINEER, TO IMPROVE SUBSEQUENT TEST RESULTS, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL ALSO BEAR THE COST OF SPECIAL INVESTIGATION, TESTING AND/OR REMEDIAL WORK NECESSARY BECAUSE OF EVIDENCE OF LOW STRENGTH OR NON-CONFORMING CONCRETE OR WORKMANSHIP.

7. ALL REINFORCING STEEL SHALL BE MANUFACTURED FROM HIGH STRENGTH BILLET STEEL CONFORMING TO ASTM A615 GRADE 60. WELDING OR BENDING OF REINFORCING STEEL IN THE FIELD IS NOT PERMITTED. WELDED WIRE REINFORCEMENT SHALL COMPLY WITH ASTM A1064 GRADE 65 (FORMERLY ASTM A185).

8. CAST-IN-PLACE CONCRETE MEMBERS SHALL HAVE THE FOLLOWING CONCRETE COVER PROTECTION FOR REINFORCEMENT:

A. CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	3"
B. EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
#6 BARS AND LARGER	2"
#5 BARS AND SMALLER	1 1/2"
C. NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND	
SLABS, JOISTS AND WALLS	
#11 BARS AND SMALLER	3/4"
BEAMS, COLUMNS AND PEDESTALS	
PRIMARY REINFORCEMENT	1 1/2"
STIRRUPS, TIES, SPIRALS AND HOOPS	1 1/2"

9. BARS BEING DEVELOPED OR SPICED SHALL BE IN ACCORDANCE WITH THE LAP SPlice LENGTHS FOR CONCRETE SCHEDULE FOR A CLASS A TENSION LAP SPlice, UNLESS OTHERWISE NOTED. WHERE THE DRAWINGS INDICATE A CLASS B TENSION LAP SPlice, THE SPlice SHALL BE IN ACCORDANCE WITH THE LAP SPlice LENGTHS FOR CONCRETE SCHEDULE FOR A CLASS B TENSION LAP SPlice. ALL WELDED WIRE REINFORCING A MINIMUM OF ONE (1) FULL WIRE SPACE PLUS 2 INCHES, BUT NOT LESS THAN 6 INCHES, AND WIRE TOGETHER.

10. SUBMIT REINFORCING STEEL SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY CONCRETE. SHOP DRAWINGS SHALL BE PREPARED BY A REBAR DETAILER ON DRAWINGS WITH THEIR TITLE BLOCK AND THE DRAWINGS SHALL BE IN CONFORMANCE WITH ACI 315 AND ACI 318, LATEST EDITIONS. PLACING OF CONCRETE SHALL NOT COMMENCE UNTIL PLACEMENT OF REINFORCING HAS BEEN INSPECTED AND APPROVED BY THE TESTING AND INSPECTION AGENCY.

11. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WITHIN REQUIRED TOLERANCES, AND SUPPORTED TO PREVENT HORIZONTAL AND/OR VERTICAL DISPLACEMENT. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, BOLSTERS, TIES, ETC. SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT AS REQUIRED.

12. PROVIDE PLASTIC-TIPPED CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IN CONTACT WITH THE CHAIRS IS EXPOSED.

13. CHAMFER ALL EXPOSED CONCRETE CORNERS UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS.

14. GUARD AGAINST EARLY DRYING OUT OF CONCRETE, ESPECIALLY IN THE FIRST 24 HOURS. ALL SURFACES SHALL BE MOIST-CURED OR PROTECTED USING A MEMBRANE CURING AGENT APPLIED AS SOON AS FORMS ARE REMOVED. IF MEMBRANE CURING AGENT IS USED, EXERCISE CARE NOT TO DAMAGE COATING.

15. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306R. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305R.

1. CONTRACTOR SHALL PREPARE AND SUBMIT A SCHEDULE OF STRUCTURAL SUBMITTALS. SUBMITTALS SHALL BE LISTED IN CHRONOLOGICAL ORDER BY DATES REQUIRED FOR CONSTRUCTION. ESTABLISH REVIEW DATES BASED ON TIME REQUIRED FOR REVIEW, ORDERING, FABRICATION AND DELIVERY OF MATERIALS. SCHEDULE SHALL INCLUDE ADDITIONAL TIME FOR ADDITIONAL REVIEWS OF SUBMITTALS WHEN CORRECTIONS OR REVISIONS ARE REQUIRED.
2. PREPARE SUBMITTALS INTO SEPARATE PDF PACKAGES, INCORPORATING COMPLETE INFORMATION INTO EACH PDF FILE. RED-LINED REVIEW PDF FILES WILL BE RETURNED.
3. THE USE OF THE CONTRACT DOCUMENTS AS SHOP DRAWINGS IS PROHIBITED. THE FABRICATOR/DETAILER/SUPPLIER SHALL PREPARE THEIR OWN SHOP DRAWINGS.
4. ALLOW A MINIMUM OF 10 BUSINESS DAYS FOR REVIEW OF EACH SUBMITTAL AND RE-SUBMITTAL.
5. SHOP DRAWING SUBMITTALS SHALL BE PROPORTIONED INTO REASONABLY-SIZED PACKAGES, CONTAINING NOT MORE THAN 100 SHEETS PER SUBMITTAL, UNLESS APPROVED BY THE ENGINEER IN WRITING, PRIOR TO SUBMISSION.
6. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO SENDING TO THE ENGINEER. THE CONTRACTOR SHALL CONFIRM THAT COMMENTS FROM THE PREVIOUS SUBMISSION HAVE BEEN INCORPORATED OR ADDRESSED. EACH SHOP DRAWING SHALL BE IDENTIFIED BY THE SAME DRAWING NUMBER THROUGHOUT THE DURATION OF THE PROJECT AND SHALL BE IDENTIFIED BY REVISION NUMBER AND DATE, WITH EACH SPECIFIC REVISION CLOUDED OR OTHERWISE CLEARLY IDENTIFIED.

ADDNL	=	ADDITIONAL
BOT	=	BOTTOM
B.O.	=	BOTTOM OF
BRG	=	BEARING
CANT	=	CANTILEVER
CJ	=	CONTROL/CONTRACTION JOINT
CL	=	CENTER LINE
CLR	=	CLEAR
COL	=	COLUMN
CONC	=	CONCRETE
CONT	=	CONTINUOUS
DIA	=	DIAMETER
DIM(S)	=	DIMENSION(S)
DWG(S)	=	DRAWING(S)
EF	=	EACH FACE
EL	=	ELEVATION
EMBED	=	EMBEDMENT
EQ	=	EQUAL
EW	=	EACH WAY
EXIST	=	EXISTING
FDN	=	FOUNDATION
FIN	=	FINISH
FS	=	FAR SIDE
FTG	=	FOOTING
HEF	=	HORIZONTAL EACH FACE
HOR	=	HORIZONTAL
L	=	ANGLE
LG	=	LONG
LWB	=	LONG WAY BOTTOM
MFR	=	MANUFACTURER
MIN	=	MINIMUM
MAX	=	MAXIMUM
NOT	=	NOT APPLICABLE
NS	=	NEAR SIDE
NTS	=	NOT TO SCALE
OC	=	ON CENTER
PL	=	PLATE
REINF	=	REINFORCEMENT
SCHED	=	SCHEDULE
SIM	=	SIMILAR
STIFF	=	STIFFENER
SWB	=	SHORT WAY BOTTOM
T&B	=	TOP & BOTTOM
T.O.	=	TOP OF
TOS	=	TOP OF STEEL
TYP	=	TYPICAL
UON	=	UNLESS OTHERWISE NOTED
VEF	=	VERTICAL EACH FACE
VER	=	VERTICAL
VIF	=	VERIFY IN FIELD

SECTION
D=SECTION
D=DETAIL
E=ELEVATION

SECTION NUMBER

(TITLE CALL OUT IS SIMILAR)

SECTION

SHEET NUMBER WHERE SECTION IS LOCATED

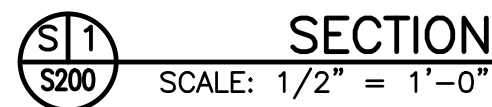
SHEET NUMBER WHERE SECTION/ELEVATION IS CUT IN PLAN OR DETAIL IS REFERENCED

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SCALE: $3/16" = 1'-0"$

1. TOP OF SLAB ON GRADE REFERENCE ELEVATION = 0'-0", UNLESS OTHERWISE NOTED. FOR ADDITIONAL INFORMATION REFERENCE DRAWING S-101 PREPARED BY WILLIAMS SCOTSMAN INC. DATED 03/18/2026.
2. ALL SLEEVES SHALL BE PLACED WITHIN THE MAIN REINFORCING GRID AND SHALL NOT EXCEED 6 INCHES IN DIAMETER. DO NOT ALTER, CUT OR INTERRUPT REINFORCING TO INSTALL SLEEVES.
3. ALL DIMENSIONS AND ELEVATIONS INDICATED THUS (±) IN PLAN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
4. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES.



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

NOTES:
1. SUBGRADE BELOW PAD TO BE PREPARED AS REQUIRED TO SUSTAIN MINIMUM DESIGN CAPACITIES INDICATED IN GENERAL NOTES.

[illegible]

MECHANICAL GENERAL NOTES

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EXHAUST FAN SCHEDULE														
UNIT	SERVICE	LOCATION	MFG	MODEL	DRIVE	AIRFLOW	ESP	FAN	BHP	RAD.	MOTOR DATA		WGT	ACCESSORIES
						(CFM)	(INWG)	SPEED	(HP)	SONES	V-PH	HP		
EF-1	EXHAUST	ROOFTOP	GREENHECK	G-095-VG	DIRECT	640	0.25	1301	0.07	6.4	115-1	1/6	43	1-6
ACCESSORIES:														
1. DISCONNECT SWITCH.			4. MOTORIZED DAMPER											
2. BACKDRAFT DAMPER.			5. ALUMINUM BIRDSCREEN											
3. VIBRATION ISOLATION.			6. 14" ROOF CURB											

AIR CONDITIONER SCHEDULE																			
UNIT	MFG	MODEL	SUPPLY FAN			DX COOLING COIL				ELECTRIC RESISTANCE HEAT				ELECTRICAL DATA		WEIGHT	ACCESSORIES		
			AIRFLOW		ESP	SIZE	NET CAPACITY		EAT	LAT	SIZE	HEAT	EAT	LAT	MCA			MOCP	
			SUPPLY	OUTDOOR			TOT	SENS											(DB/WB)
			(CFM)	(CFM)	(INWC)	HP	(BTUH)	(BTUH)	(F)	(F)		(BTUH)	(F)	(F)		(A)	(A)		
AC-1	BARD	W36AF-A10AXXX3X	1275	350	0.50	1/2	36374	28151	80/60	59.6/58.1	10	34101	70	94	240/1	58	60	400	1-4
AC-2	BARD	W36AF-A10AXXX3X	1275	350	0.50	1/2	36374	28151	80/60	59.6/58.1	10	34101	70	94	240/1	58	60	400	1-4
ACCESSORIES:																			
1. EXTERIOR WALL-MOUNT UNIT. 4. EXTRUDED ALUMINUM SIDEWALL RETURN AIR GRILLE																			
2. FRESH AIR DAMPER WITH BAROMETRIC EXHAUST																			
3. DISCONNECT SWITCH																			

SPLIT SYSTEM (HEAT PUMP) SCHEDULE																						
UNIT ID	MFG	MODEL		SERVICE	NOMINAL SIZE (TON)	INDOOR TYPE	FAN DATA				COOLING DATA				HEATING DATA				ELECTRICAL			ACCESS.
		OUTDOOR UNIT	INDOOR UNIT				AIRFLOW (CFM)	TOT CAP (MBH)	SENS CAP (MBH)	ENT AIR (DB/WB)	LVG AIR (DB)	SEER /EER	CAP (MBH)	ENT AIR (DB)	LVG AIR (DB)	HSPF	V/PH	MCA	MOCP			
HP-1 / ACHP-1	DAIKIN	RXF09BVJU9	FTXF09BVJU9	GUARD SHACK	0.75	WALL	275	9	8.25	80/67	55	21/12.5	10.9	70	90	10.2	208-230/1	11.6	15	1-4		
ACCESSORIES:																						
1. CONDENSATE PUMP 2. CONDENSATE OVERFLOW SENSOR 3. WALL MOUNTED, HARDWIRED THERMOSTAT 4. INDOOR UNIT POWERED VIA OUTDOOR UNIT																						

DIFFUSER & REGISTER SCHEDULE									
UNIT	TYPE	MFG	MODEL	MOUNT TYPE	MODULE SIZE	NECK SIZE	AIRFLOW RANGE	MAX NC RATING	NOTES
CD-1	SQUARE PLAQUE DIFFUSER	PRICE	SPD	CEILING	(IN) 24x24	(IN) 8	(CFM) 0-300	22	1-6
CG-1	CEILING RETURN GRILLE	PRICE	530	CEILING	12x24	10x22	0-550	25	4,5
CG-2	CEILING RETURN GRILLE	PRICE	530	CEILING	24x24	22x22	0-1000	25	4,5
EG-1	CEILING EXHAUST GRILLE	PRICE	530	CEILING	12x12	10x10	0-250	25	4,5,7
EG-2	CEILING EXHAUST GRILLE	PRICE	530	CEILING	24x24	22x22	0-1000	25	4,5,7
NOTES									
1. SUPPLY DIFFUSER SHALL BE STEEL CONSTRUCTION WITH SINGLE FACE PANEL PROJECTING NO MORE THAN A 1/4" FOR CEILING. 2. CEILING SUPPLY DIFFUSERS MAY BE CONNECTED TO DUCTWORK WITH MAXIMUM 6FT OF FLEXIBLE DUCTWORK. REFER TO DETAIL FOR INSTALLATION REQUIREMENTS. 3. INSTALL 12x12 AND HARD CEILING INSTALLED 24x24 CEILING DIFFUSERS WITH RAPID MOUNT FRAME KIT. 4. PROVIDE DEVICE WITH OPPOSED BLADE VOLUME DAMPER WITH SAME CONSTRUCTION MATERIAL AS ASSOCIATED REGISTER/DIFFUSER. 5. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH CEILING AND/OR WALL CONSTRUCTION TYPE. 6. PROVIDE R-6 FOIL BACKED INSULATION ON RECTANGULAR & SQUARE SUPPLY DIFFUSERS. 7. 12x12 DIFFUSERS SHALL BE MOUNTED IN A 24x24 STEEL PANEL FOR LAY-IN APPLICATIONS.									

[illegible]

MARY ELAINE DASTI, PE
SENIOR VICE PRESIDENT, MARKET LEADER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. 24GE05120300

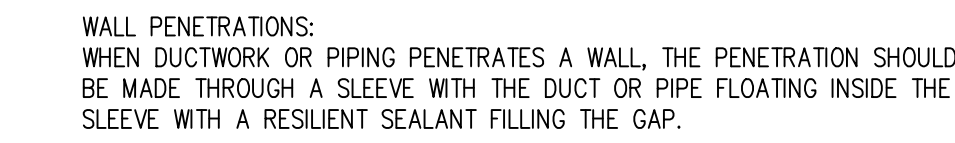
LITTLE EGG HARBOR TOWNSHIP DEPARTMENT OF PUBLIC WORKS FACILITY IMPROVEMENTS EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY MECHANICAL SCHEDULES



DESIGNED BY	LL	DRAWING	M-5
CHECKED BY	JWM		
DRAWN BY	GW	SHEET	23 OF 37
DATE	10/7/2026		
SCALE	NONE		
PROJ. NO.	LEHT01952		

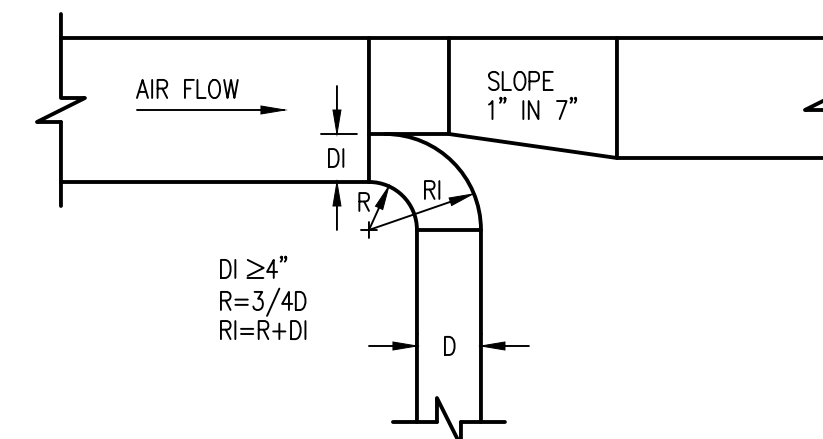
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LAST SAVED DATE AND TIME: 28 Sep 2026, 8:22AM
LAST SAVE BY: LloPiccolo

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NOT TO SCALE

AUDITORIUM DUCT DESIGN TABLE				
NC-25	TERMINAL SLOT SPEED	NEAREST 10 FEET OF DUCT	NEXT 10 FEET OF DUCT	NEXT 10 FEET OF DUCT
SUPPLY	350	425	550	700
RETURN	425	500	650	800

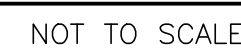


NOT TO SCALE



1. PROVIDE AT FLEXIBLE DUCT CONNECTION METAL OR "PANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX. SECURE THE INSULATION OVER THE DRAW BAND WITH AN ADDITIONAL DRAWBAND.
2. PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
3. PROVIDE MINIMUM 2" COLLARS FOR ATTACHMENT OF THE FLEX DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
4. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

NOT TO SCALE



MARY ELAINE DASTI, PE
SENIOR VICE PRESIDENT, MARKET LEADER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. 24GE05120300

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY
IMPROVEMENTS

MECHANICAL DETAILS



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NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

DESIGNED BY

CHECKED BY _____

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D.A.M.	

DATE 10/7/20

SCALE

PROJ. NO.	
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FILE NAME: LEHT01952-ELECTRICAL.dwg
DATE: 07 OCT 2026, 12:15PM
LAST SAVE BY: jgwe9

ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION IN EFFECT OF THE NATIONAL ELECTRICAL CODE (NFPA-70 2020), NEW JERSEY UNIFORM CONSTRUCTION CODE (NUCC), INTERNATIONAL FIRE CODE (IFC 2021), INTERNATIONAL BUILDING CODE (IBC 2021), ACCESSIBLE & USABLE BUILDINGS & FACILITIES (ICC/ANSI A117.1-2017) AND NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) STANDARD OF INSTALLATION.

2. AMERICAN MANUFACTURED PRODUCTS SHALL BE USED WHERE POSSIBLE FOR ALL WORK IN ACCORDANCE WITH NJAC 40A:11-18. CONTRACTOR SHALL VERIFY THAT ALL SUBMITTED EQUIPMENT FOR ALL CONTRACTS FOR COUNTY OR MUNICIPAL WORK OR FOR WORK FOR WHICH IT WILL PAY ANY PART OF THE COST, OR WORK WHICH BY CONTRACT OR ORDINANCE IT WILL ULTIMATELY OWN AND MAINTAIN, THAT ONLY MANUFACTURED PRODUCTS OF THE UNITED STATES, WHEREVER AVAILABLE, BE USED IN SUCH WORK. ANY SUBSTITUTIONS OR BASIS OF DESIGN EQUIPMENT SHALL BE VERIFIED BY CONTRACTOR TO CONFORM TO THE ABOVE NOTED REQUIREMENTS.

3. OBTAIN ALL PERMITS REQUIRED, HAVE THE WORK INSPECTED FOR CODE COMPLIANCE AND PAY ALL FEES FOR INSPECTION AND CERTIFICATION.

4. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF MAIN SERVICE ENTRANCE EQUIPMENT FROM THE UTILITY COMPANY PRIOR TO PURCHASING AND FABRICATION OF EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH THE UTILITY ALL REQUIRED COLD OR HOT SEQUENCING OF METERING COMPONENTS WITH UTILITY PRIOR TO SUBMISSION OF SHOP DRAWINGS.

5. MAKE THE NECESSARY ARRANGEMENTS, AND PAY ALL COSTS, FOR TEMPORARY AND/OR PERMANENT ELECTRIC SERVICE FOR THE PROJECT.

6. PROVIDE ADEQUATE TEMPORARY ELECTRICAL LIGHT AND POWER FOR THE PROJECT WORK OF ALL TRADES.

7. DRAWINGS ARE DIAGRAMMATIC AND DEFINE THE INTENT OF THE WORK. LOCATIONS OF EQUIPMENT, FIXTURES, DEVICES, PANELBOARDS, DUCTS, PIPING, DIFFUSERS, PARTITIONS, OPENINGS, ETC. ARE APPROXIMATE AND ARE SUBJECT TO MODIFICATIONS CAUSED BY STRUCTURAL CONDITIONS AND EQUIPMENT PROVIDED BY OTHER CONTRACTORS, SUBCONTRACTORS OR THE OWNER. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES. DETERMINE ROUGHING LOCATIONS FROM APPROVED SHOP DRAWINGS. MINOR MODIFICATIONS OF LOCATIONS REQUIRED TO AFFECT SUCH COORDINATION SHALL BE MADE AT NO COST TO THE OWNER.

8. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY TO EACH OTHER. SPECIFICATIONS MAY REQUIRE ADDITIONAL WORK, EQUIPMENT, SYSTEMS, METHODS, ETC. THAT IS NOT INDICATED ON THE DRAWINGS.

9. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY TO EACH OTHER. WHERE DISCREPANCIES OR CONFLICTS OCCUR, THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY METHOD IN HIS PROPOSAL UNLESS CLARIFIED BY BULLETIN OR ADDENDUM ACKNOWLEDGED PRIOR TO RECEIPT OF BID.

10. DRAWINGS SHALL NOT BE SCALED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND REQUIREMENTS OF THE WORK. ALTHOUGH SIZE AND LOCATION OF EQUIPMENT IS DRAWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY INFORMATION AT THE PROJECT SITE.

11. EXISTING PROJECT CONDITIONS INDICATED ARE BASED ON FIELD OBSERVATION, EXISTING DESIGN / CONSTRUCTION DOCUMENTS AND EXISTING RECORD DOCUMENTS AND ARE INTENDED TO INDICATE THE SCOPE OF THE WORK AFFECTED BY THIS PROJECT.

12. ALL EQUIPMENT EXPOSED TO ATMOSPHERIC CONDITIONS AND/OR LOCATED OUTDOORS SHALL BE WEATHERPROOF OR PROVIDED WITH A WEATHERPROOF ENCLOSURE.

13. THE TERM "OTHERS" SHALL BE UNDERSTOOD TO MEAN CONTRACTORS, SUBCONTRACTORS OR TRADESMEN ON THE PROJECT PERFORMING WORK ON THIS PROJECT UNDER SECTIONS OR DIVISIONS OTHER THAN DIVISION 16 – ELECTRICAL WORK.

14. PRIOR TO BIDDING VISIT THE PROJECT SITE TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. SCHEDULE SITE VISIT WITH OWNER.

15. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR THE INSTALLATION, RELOCATION AND CONNECTION OF THE ELECTRICAL WORK.

16. ALL MATERIAL SHALL BE UNDERWRITERS' LABORATORIES LISTED FOR ITS APPLICATION WHERE SUCH LISTING IS APPLICABLE.

17. ALL EQUIPMENT SHALL BE AS INDICATED OR AS APPROVED BY THE ENGINEER.

18. SUBMIT SHOP DRAWINGS, PRODUCT DATA SHEETS AND WIRING DIAGRAMS FOR ALL ELECTRICAL CONSTRUCTION MATERIALS, DEVICES, EQUIPMENT, APPLIANCES AND SYSTEMS. UNLESS SPECIFICALLY INDICATED OR REQUESTED OTHERWISE, BIND ALL RELATED PRODUCT DATA TOGETHER PROPERLY INDEXED AND IDENTIFIED AND WITH ALL PERTINENT CATALOG NUMBERS, OPTIONS, ETC. HIGHLIGHTED OR TARGETED, INCOMPLETE SUBMITTALS WILL DISCARDED AND THE TRANSMITTAL RETURNED TO THE CONTRACTOR.

19. OBTAIN SHOP DRAWINGS AND WIRING DIAGRAMS FROM OTHER CONTRACTORS AND OWNER FOR THE PROPER INSTALLATION OF RELATED ELECTRICAL WORK OF OTHER RELATED SYSTEMS INCLUDING BUT NOT LIMITED TO: SECURITY EQUIPMENT, IT EQUIPMENT, CONTROL DEVICES, VALVES, THERMOSTATS, ETC. REQUIRED FOR THE PROPER OPERATION OF THEIR SYSTEMS.

20. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AFFECTED BY THIS WORK WHICH MUST REMAIN IN SERVICE.

21. MAKE ALL MODIFICATIONS NECESSARY TO EXISTING PANELBOARDS AND SWITCHBOARDS TO ACCEPT NEW CIRCUITS.

22. WHERE ELECTRICAL EQUIPMENT (I.E. SWITCHBOARDS, PANELBOARDS, BUS DUCTS, TRANSFORMERS, DISCONNECTS, ETC.) OR SYSTEMS (I.E. FIRE ALARM, SOUND, INTERCOMMUNICATIONS, ALARM, ETC.) IS/ARE INDICATED TO BE MODIFIED TO ACCEPT NEW WORK SAID MODIFICATIONS SHALL BE PERFORMED BY ELECTRICAL EQUIPMENT FABRICATORS OR MANUFACTURER'S REPRESENTATIVES WHO CAN AFFECT SUCH MODIFICATIONS WITHOUT VOIDING THE U. L. LABEL OR MANUFACTURER'S WARRANTIES.

23. WHERE NEW EQUIPMENT IS INDICATED TO BE "RECONNECTED" TO EXISTING WIRING, CONDUIT OR OTHER PART OF AN EXISTING ELECTRICAL SYSTEM, THE CONTRACTOR SHALL MODIFY OR EXTEND THE EXISTING SYSTEM COMPONENTS AS REQUIRED TO MEET THE CONNECTION POINT OF THE NEW ITEM. THE CONTRACTOR SHALL USE MATERIALS AND METHODS THAT MATCH THE EXISTING SYSTEM, OR AS SPECIFIED FOR NEW WORK, WHICHEVER IS MORE SUITABLE FOR THE APPLICATION.

24. WHERE EXISTING EQUIPMENT IS INDICATED TO BE "CONNECTED" OR "RECONNECTED" TO NEW WIRING, CONDUIT, ETC, THE CONTRACTOR SHALL FABRICATE AND INSTALL THE NEW SYSTEM CONNECTIONS TO MATCH THE CONNECTION POINTS AND OTHER REQUIREMENTS OF THE EXISTING EQUIPMENT. WHERE THE EXISTING EQUIPMENT MUST BE REMOVED AND REINSTALLED TO FACILITATE THE REMOVAL OF THE OLD CONNECTIONS AND/ OR THE CONNECTION OF THE NEW MATERIAL, THAT WORK SHALL BE A PART OF THIS CONTRACT.

25. EXACT LOCATION OF EQUIPMENT SHALL BE COORDINATED IN THE FIELD WITH THE APPROVAL OF OWNER/TENANT/ARCHITECT.

26. REFER TO APPROVED REFLECTED CEILING PLANS FOR EXACT LIGHTING LAYOUTS.

27. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER TRADES FOR EQUIPMENT LOCATIONS AND CONTROLS.

28. GROUNDING AND BONDING SHALL MEET NEC AND EQUIPMENT / SYSTEM MANUFACTURER'S REQUIREMENTS.

29. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF DEBRIS GENERATED BY HIS WORK AND WORKERS AT THE END OF EACH WORKING DAY AND FOR GENERAL GOOD HOUSEKEEPING BY HIS WORKERS.

30. CONTRACTOR SHALL PROVIDE REQUIRED REFUSE CONTAINERS.

31. DISCONNECT AND REMOVE FROM THE PREMISES, OR STORE ON THE PREMISES IF REQUESTED BY THE OWNER, ALL EQUIPMENT FIXTURES, DEVICES, RACEWAY, WIRING, CABLE, SUPPORTING DEVICES, ETC.

32. REMOVED OR ABANDONED AS A RESULT OF THIS WORK. MAKE SAFE ALL WIRING AND CABLE WHICH MUST REMAIN IN SERVICE.

33. REMOVE AND RELOCATE EXISTING EQUIPMENT, FIXTURES, DEVICES, ETC. AS INDICATED AND AS REQUIRED TO CLEAR NEW WORK. EXTEND AND CONNECT NEW WIRING TO EXISTING.

34. DISCONNECT AND REMOVE, OR TEMPORARILY RELOCATE, EXISTING LIGHTING FIXTURES, LOUDSPEAKERS, ETC. TO CLEAR THE INSTALLATION OF NEW DUCTWORK, PIPING, EQUIPMENT, ETC. THROUGHOUT THE ENTIRE RENOVATED AREAS AND REINSTALL WHEN WORK IS COMPLETE. REFER TO ALL TRADES PLANS AND SPECIFICATIONS FOR THE EXTENT OF THE WORK. PROVIDE TEMPORARY NORMAL AND EMERGENCY LIGHTING; AND TEMPORARILY RECONNECT LOUDSPEAKERS, ETC. UNTIL THE CEILING IS REINSTALLED. EXTEND EXISTING WIRING TO NEW LOCATIONS AS REQUIRED.

35. TEMPORARILY RELOCATE, EXISTING FIRE ALARM DEVICES, HEAT/SMOKE DETECTORS, ETC. TO CLEAR THE INSTALLATION OF NEW DUCTWORK, PIPING, EQUIPMENT, ETC. THROUGHOUT THE ENTIRE RENOVATED AREA. PROVIDE TEMPORARY SUPPORT OF EXISTING DEVICES AND REINSTALL WHEN WORK IS COMPLETED. RE-TEST THE FIRE ALARM SYSTEM PER NFPA 72 REQUIREMENTS. EXISTING FIRE ALARM DEVICES SHALL NOT BE DISABLED OR REMOVED FROM SERVICE UNTIL THE NEW SYSTEM IS INSTALLED AND TESTED PER NFPA 72, 7-1.6.2.1, OR THE SPRINKLER SYSTEM & ALL NOTIFICATION, SIGNALING AND SUPERVISORY DEVICES ARE PROPERLY INSTALLED AND TESTED PER NFPA 13. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL PLANS AND SPECIFICATIONS FOR THE EXTENT OF THIS WORK.

36. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE WORK. CUT NO STRUCTURAL MEMBER WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. FINISH AND PAINT ALL PATCHED SURFACES WITH TWO COATS OF PAINT TO MATCH EXISTING SURFACES AS CLOSELY AS POSSIBLE. SEAL OPENINGS VERMIN AND WATER PROOF AND MAINTAIN FIRE RATING. USE SPECIFIED TECHNOLOGIES, INC. 'SPECSEAL' SERIES 100 FOR SLEEVED PENETRATIONS (U. L. SYSTEM #C-AJ-1028; F = 3, T = 0) AND 'SPECSEAL' PENICIL 300 SEALANT FOR CUT OR CORED PENETRATIONS (U. L. SYSTEM #C-AJ-1030; F = 3, T = 0). SLEEVES AND ACCESSORIES SHALL BE PER ASTM E 814.

37. ALL PENETRATIONS IN FOUNDATION WALLS AND FLOORS INCLUDING SLAB PENETRATIONS SHALL BE SUBSTANTIALLY SEALED BY UTILIZING A NON-CRACKING POLYURETHANE OR SIMILAR CAULK OR EQUIVALENT TO CLOSE OFF THE SOIL GAS ENTRY ROUTES. ALL CONDUITS IN THE SPACE BELOW THE FOUNDATION FLOOR WHICH PENETRATE THESE BARRIERS SHALL HAVE THREADED OR SOLVENT WELD FITTINGS.

38. EXISTING CONDUIT MAY BE REUSED IF APPROVED BY THE ENGINEER. WHERE SUCH REUSE IS NOT PRACTICABLE, PROVIDE NEW CONDUIT.

39. ALL NEW RACEWAY, WIRING AND CABLE IN NEW AND EXISTING SPACES SHALL BE RUN CONCEALED IN NEW AND EXISTING CONSTRUCTION UNLESS OTHERWISE INDICATED; CUT AND PATCH AS REQUIRED. PROVIDE FULLBOXES, SIZE AND TYPE AS REQUIRED.

40. EXPOSED RACEWAY, IF PERMITTED, SHALL BE RUN TRUE, PLUMB AND PARALLEL OR PERPENDICULAR TO BUILDING LINES. ELECTRICAL METALIC TUBING, 3/4 INCH MINIMUM, SHALL BE USED IN UNFINISHED SPACES; SURFACE METAL RACEWAY (WIREMOLD) SHALL BE USED IN FINISHED SPACES.

41. ALL WIRING SHALL BE COPPER CONDUCTOR WITH 600 VOLTS INSULATION IN METAL RACEWAY WITH APPROVED FITTINGS UNLESS OTHERWISE INDICATED.

42. SERVICE ENTRANCE CONDUCTORS UNDERGROUND IN RACEWAY: TYPE THHN-THWN 90 DEGREE C. WHERE EXPOSED WITHIN THE BUILDING OR STRUCTURE, ENCASE RACEWAY IN CONCRETE, MINIMUM 2-INCHES THICK.

43. FEEDERS AND BRANCH CIRCUITS UNDERGROUND IN RACEWAY: TYPE THHN-THWN 90 DEGREE C

44. INTERIOR FEEDERS AND BRANCH CIRCUITS IN RACEWAY: TYPE THHN 90 DEGREE C.

45. BRANCH CIRCUIT HOMERUNS TO FIRST OUTLET: TYPE THHN IN RACEWAY. AFTER THE FIRST OUTLET BOX, APPROVED CABLE MAY BE USED.

46. FEEDERS SHALL BE MINIMUM #8 AWG; BRANCH CIRCUIT WIRING MINIMUM #12 AWG; CONTROL WIRING MINIMUM #14 AWG, UNLESS OTHERWISE INDICATED. FEEDER AND BRANCH CIRCUIT WIRING LARGER THAN #10 AWG SHALL BE STRANDED CONDUCTOR; #10 AWG AND SMALLER, STRANDED CONDUCTOR OR SOLID CONDUCTOR; CONTROL WIRING, STRANDED CONDUCTOR.

47. DO NOT INSTALL CONDUCTORS, WIRES OR CABLES OF ANY OTHER SYSTEM IN THE SAME RACEWAY OR CABLE WITH FIRE ALARM POWER SUPPLY CIRCUITS, NON-POWER LIMITED FIRE ALARM CIRCUITS OR POWER LIMITED FIRE ALARM CIRCUITS.

48. MAKE FLEXIBLE CONNECTIONS TO MOTORS AND OTHER ROTATING / VIBRATING EQUIPMENT.

49. TAPS AND SPLICES FOR BRANCH CIRCUITS AND FEEDERS LARGER THAN #10 AWG SHALL BE MADE WITH BURNDY INSUL-TAP; TYPE BPC, OR APPROVED EQUAL, INSULATION PIERCING CONNECTORS OR BURNDY HYUG; OR APPROVED EQUAL, COMPRESSION SPLICES.

50. TAPS AND SPLICES FOR BRANCH CIRCUITS AND FEEDERS #10 AWG AND SMALLER SHALL BE MADE WITH IDEAL MODELS 410, 411 AND 412 CRIMP CONNECTORS, OR APPROVED EQUAL, WITH MODELS 415 OR 417 INSULATED CAPS.

51. BRANCH CIRCUIT AND FEEDER TAPS SHALL BE FULL CIRCUIT SIZE UP TO THEIR OVERCURRENT PROTECTION DEVICE.

52. CONNECTIONS TO FIXTURE AND MOTOR LEADS #10 AWG AND SMALLER SHALL BE MADE WITH 3M "SCOTCHLOK" PRE-INSULATED SPRING PRESSURE CONNECTOR TYPES Y, R OR G OR APPROVED EQUAL.

53. STRANDED WIRING CONDUCTORS SHALL BE MADE UP TO SCREW TERMINALS WITH 3M, T&B OR PANDUIT LOCKING FORK CRIMP TERMINALS WITH NYLON INSULATED GRIPS.

54. WIRE EMERGENCY LIGHTING FIXTURES (UNIT EQUIPMENT) TO LOCAL AREA LIGHTING CIRCUIT SERVING THE RESPECTIVE AREA AHEAD OF SWITCH / DIMMER CONTROL.

55. WIRE EXIT LIGHTS TO THE CIRCUITS INDICATED.

56. WIRE ELECTRONIC TRAP PRIMERS TO NEAREST AVAILABLE 1P20A 120 VAC CIRCUIT UNLESS OTHERWISE INDICATED. REFER TO PLUMBING FLOOR PLANS AND SCHEDULES FOR LOCATIONS.

57. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION AND INSTALLATION DETAILS AND VERIFY ALL MANUFACTURER'S REQUESTS PRIOR TO ANY SUBMISSION FOR CONSIDERATION BY THE ARCHITECT, ENGINEER OR OWNER.

58. WIRING RUNS INDICATED ON THE DRAWINGS EXPRESS THE INTENT OF CIRCUIT ASSIGNMENT AND SWITCH CONTROL. ACTUAL WIRING METHODS USED SHALL BE SUITED FOR THE CONSTRUCTION OF THE BUILDING. REFER TO DRAWINGS OF OTHER TRADES AND EXISTING CONDITIONS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS. NUMBER OF CONDUCTORS IS NOT ALWAYS INDICATED

59. FURNISH AND INSTALL ALL CODE REQUIRED DISCONNECT SWITCHES OR LOCKABLE BREAKER FOR PERMANENTLY CONNECTED APPLIANCES PER NEC 422-III. PROVIDE GFI RECEPTACLE OR CIRCUIT BREAKER FOR ALL HAND DRYERS AND/OR VENDING MACHINES.

60. INSTALL MOTOR STARTERS, CONTROLLERS OR COMBINATION STARTERS FURNISHED FOR EACH MOTOR. LOCATE AS DIRECTED IN THE FIELD.

61. PROVIDE UN-SWITCHED 125 VOLT 20 AMP RECEPTACLE OUTLETS LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF ALL HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT UNLESS OTHERWISE NOTED.

62. PROVIDE PERMANENTLY INSTALLED LIGHTING OUTLETS TO ILLUMINATE THE AREAS IN ATTICS OR CRAWL SPACES IN WHICH EACH PIECE OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT IS LOCATED. PROVIDE LUMINAIRE, LAMP AND LIGHT SWITCH APPROPRIATE FOR THE LOCATION. INSTALL LIGHT SWITCH NEAR THE ACCESS TO THE AREA UNLESS OTHERWISE NOTED.

63. ROUTE RACEWAYS THROUGH ROOF USING DEDICATED ROOF JACKS OR PITCH POCKETS. RUN RACEWAY ON ROOF ON DEDICATED ROOF SUPPORTS EIGHT INCHES HIGH MINIMUM.

64. ALL WIND & SEISMIC RESTRAINTS AND VIBRATION ISOLATORS WILL BE IN STRICT ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE/2021 ASCE7/22016. THE MANUFACTURER OF THE WIND & SEISMIC RESTRAINTS AND VIBRATION ISOLATOR EQUIPMENT WILL DESIGN AND CALCULATE THE WIND & SEISMIC RESTRAINTS AND VIBRATION ISOLATORS TYPES, SIZES, LOCATIONS, DEFLECTIONS, DEAD LOADS, ANCHORING METHODS, BOLT DIAMETERS, EMBEDMENT AND WELD LENGTHS BASED ON ACTUAL EQUIPMENT BEING INSTALLED. THIS MANUFACTURER WILL SUBMIT THESE CALCULATIONS STAMPED AND APPROVED BY A PROFESSIONAL ENGINEER, AS PART OF THE WIND & SEISMIC RESTRAINTS AND VIBRATION ISOLATORS SHOP DRAWINGS. ALSO SUBMIT SEISMIC DESIGN ERRORS AND OMISSIONS INSURANCE CERTIFICATE AS PART OF THIS SHOP DRAWING. THE MANUFACTURER WILL PROVIDE INSTALLATION INSTRUCTIONS, DRAWINGS, DETAILS, AND FIELD SUPERVISION AS NOTED IN SPECIFICATION.

65. ALL EQUIPMENT, CONDUIT AND SWITCHGEAR SHALL BE PROVIDED WITH WIND & SEISMIC RESTRAINTS AND VIBRATION ISOLATORS AS DESCRIBED IN THE SPECIFICATIONS ACCORDING TO THE WIND DESIGN SPEED AND SEISMIC DESIGN CATEGORY OF THE SITE LISTED BELOW:

DESIGN WIND SPEED: 130 MPH

SITE CLASSIFICATION : D
SEISMIC RISK CATEGORY : IV
SEISMIC DESIGN CATEGORY : C

IN A BUILDING CLASSIFIED AS SEISMIC CATEGORY "A" OR "B" SEISMIC ISOLATION IS NOT REQUIRED. INSTALL ONLY VIBRATION ISOLATION AS SPECIFIED.

IN A BUILDING CLASSIFIED AS SEISMIC DESIGN CATEGORY C ALL COMPONENTS WITH AN IMPORTANCE FACTOR OF 1.0, SEISMIC ISOLATION IS NOT REQUIRED. INSTALL ONLY VIBRATION ISOLATION AS SPECIFIED.

IN A BUILDING CLASSIFIED AS SEISMIC CATEGORY "C", ALL COMPONENTS WITH AN IMPORTANCE FACTOR OF 1.5 OR GREATER SHALL BE SEISMICALLY BRACED. THIS INCLUDES LIFE SAFETY SYSTEMS, EQUIPMENT OR SYSTEM WITH HAZARDOUS/FLAMMABLE MATERIALS, REQUIRED OPERATION IN A GROUP III BUILDING, (IE ENGINE-DRIVEN GENERATORS, LIGHTING FIXTURES, MOTOR CONTROL CENTERS, FLOOR MOUNTED SWITCHBOARDS, SWITCHGEAR, TRANSFORMERS, UNIT SUBSTATIONS, BUS DUCTS, WIREWAYS AND CONDUITS LARGER THAN 2-1/2" INCHES) REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.

66. DO NOT INSTALL EXPOSED WIRING, OR CABLE NOT U. L. LISTED FOR THE PURPOSE; WOOD SUPPORTS OR ANCHORAGES; NONMETALLIC CONDUIT, BOXES OR FITTINGS; OR VINYL, PLASTIC, NYLON, OR OTHER COMBUSTIBLE OR SMOKE PRODUCING IDENTIFICATION OR CONSTRUCTION MATERIALS IN THE SPACE ABOVE HUNG CEILINGS USED AS A PLENUM FOR THE RETURN OF ENVIRONMENTAL AIR.

67. DEMONSTRATE PRODUCT CAPABILITY AND COMPLIANCE WITH REQUIREMENTS OF ALL ELECTRICAL DEVICES, EQUIPMENT AND SYSTEMS.

68. PERFORM MANUFACTURER'S RECOMMENDED TESTS AND SUBMIT RESULTS.

69. VERIFY PROPER ROTATION OF ALL ROTATING ELECTRICAL MACHINERY.

70. TEST SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CABLES, BUS DUCTS, SWITCHES, CIRCUIT BREAKERS, GROUNDING SYSTEM, GROUND FAULT PROTECTION SYSTEM, SURGE ARRESTORS AND SPD – SURGE PROTECTION DEVICES, GENERATORS, AND TRANSFER SWITCHES IN ACCORDANCE WITH APPLICABLE SECTIONS OF INTERNATIONAL ELECTRICAL TESTING ASSOCIATION ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRIC POWER DISTRIBUTION EQUIPMENT AND SYSTEMS NETA ATS-1999. PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST LISTED.

71. DELIVER CERTIFICATES OF ELECTRICAL AND OTHER INSPECTIONS, OR COPIES THEREOF, TO THE OWNER AT THE COMPLETION OF THE PROJECT WITH COPIES TO THE ENGINEER.

72. GUARANTEE ALL WORK IN WRITING TO THE OWNER AGAINST ANY AND ALL DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE AND PERFORM ALL CORRECTIVE WORK AT NO COST TO THE OWNER.

73. PRE-EXISTING CONDITIONS ARE EXEMPT PER NJAC 5-23-6.8.(d)10. "EXISTING WORKING CLEARANCES, CLEAR SPACE, ACCESS AND ENTRANCE DIMENSIONS TO WORKING SPACES, ILLUMINATION, HEADROOM CLEARANCES, AND LOCATION OF OVERCURRENT PROTECTION DEVICES SHALL BE ALLOWED TO REMAIN WITHOUT MODIFICATION."

74. CONDUCTOR SIZES (PHASE AND GROUND) SHALL BE INCREASED DUE TO DE-RATING AND VOLTAGE DROP REQUIREMENTS AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING VOLTAGE DROP BASED ON THE FEEDER AND BRANCH CIRCUIT RUNS SUCH THAT THE TOTAL VOLTAGE DROP ON EACH RUN DOES NOT EXCEED 5% TOTAL. PROVIDE AND INSTALL SPLICE/TAP J-BOX BEFORE CONNECTION TO LOAD AND TRANSFER TO SMALLER CONDUCTORS (PER CODE) FOR CONNECTION TO DEVICE TERMINALS WHERE REQUIRED.

75. PROVIDE ALL SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED BY NEC FOR MOTOR, APPLIANCE AND ELECTRIC HEAT EQUIPMENT DISCONNECTION. ALL DISCONNECT SWITCHES SHALL BE LOCAL TO THE EQUIPMENT THEY ARE SERVING AND SHALL BE LOCKABLE IN THE "ON" OR "OFF" POSITION. LOCKABLE CIRCUIT BREAKERS SHALL NOT BE ACCEPTABLE.

76. PANEL BOARD LOCKS SHALL BE KEYED IN ACCORDANCE TO OWNER REQUIREMENTS.

77. AS-BUILTS SHALL BE PROVIDED WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, INCLUDING BUT NOT LIMITED TO SINGLE-LINE OF ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLAN WITH LOCATIONS OF DISTRIBUTION EQUIPMENT AND AREAS SERVED BY THAT EQUIPMENT. (ASHRAE STANDARD 90.1-2013.)

78. O & M MANUALS MUST BE PROVIDED FOR THE ELECTRICAL DISTRIBUTION SYSTEM, INCLUDING BUT NOT LIMITED TO NAMEPLATE RATINGS, SCHEDULED MAINTENANCE, SPECIFIC EQUIPMENT SUPPLIED, NAMES AND ADDRESSES OF QUALIFIED SERVICE AGENCIES, COMPLETE NARRATIVE AND SCHEMATIC OF SYSTEM IN NORMAL OPERATION. (ASHRAE STANDARD 90.1-2013.)

79. DEVICE AND EQUIPMENT MOUNTING HEIGHTS TO BE COORDINATED WITH ARCHITECTURAL PLANS.

80. APPLY U.L. APPROVED FIRE STOPPING ("3M" FIRE STOP SEALANT 2000 AND/OR "3M" FIRE BARRIER CP25 WB) TO ALL PENETRATIONS OF FIRE RATED FLOORS, WALL AND CEILING ASSEMBLIES. RATING MUST RE-ESTABLISH THE ORIGINAL FIRE RESISTANCE.

81. PROVIDE A MINIMUM OF 6" OF SEPARATION BETWEEN OUTLET BOXES THAT ARE LOCATED BACK TO BACK IN WALLS UNLESS WALLS ARE ACOUSTICALLY RATED TO PREVENT SOUND TRANSMISSION, IN WHICH CASE CONTRACTOR SHALL PROVIDE MINIMUM OF 24" OF SEPARATION BETWEEN BACK TO BACK OUTLET BOXES. PROVIDE FIRE RATED BOXES OR U.L. APPROVED FIRE RATED MATERIAL BETWEEN THE BOXES.

82. ALL NEW RECEPTACLES, SWITCHES, DATA/TEL. BACK BOXES, ETC. SHALL BE FULLY RECESSED IN THE NEW PARTITIONS (EXCEPT FOR EXTERIOR BLOCK WALLS). ALL WIRING SHALL BE FISHED AND CONCEALED WITHIN THE NEW WALLS/PARTITIONS.

83. A LISTED SPD SHALL BE INSTALLED IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS, PER NEC ARTICLE 700.8.

84. ALL CABLE MUST BE SUPPORTED ABOVE THE CEILING APPROXIMATELY EVERY (4) TO (6) FEET. USAGE OF METALLIC D-RINGS AND DRIVE RINGS ARE PERMITTED. ALL CABLE TIES ABOVE THE CEILING MUST BE PLENUM RATED. ALL CABLES MUST BE NEATLY BUNDLED AND SUPPORTED IN A PROFESSIONAL MANNER. ANY CABLE RUNS IN EXPOSED PUBLIC VIEWING AREAS, I.E., CLASSROOMS, HALLWAYS, ETC., MUST BE ENCLOSED IN RACEWAY.

85. OVERCURRENT PROTECTIVE DEVICES 1200A OR HIGHER SHALL BE PROVIDED WITH AN ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR IN ACCORDANCE WITH NEC ARTICLE 240.87 (B)(3).

86. EACH BRANCH CIRCUIT DISCONNECT RATED 1000A OR MORE AND INSTALLED ON SOLIDLY GROUNDED WYE ELECTRICAL SYSTEMS OF MORE THAN 150 VOLTS TO GROUND, BUT NOT EXCEEDING 600 VOLTS PHASE TO PHASE, SHALL BE PROVIDED WITH GROUND-FAULT PROTECTION OF EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 230.95.

87. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WITH APPROPRIATE TRIP/TRIP CURVE SETTINGS AND DISTRIBUTION SYSTEM COMPONENTS THAT ARE IN CONFORMANCE WITH THE DELEGATED SHORT CIRCUIT STUDY, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS STUDY, WHERE APPLICABLE. THE DELEGATED SHORT CIRCUIT STUDY, COORDINATION STUDY, AND ARC FLASH HAZARD ANALYSIS SHALL BE PERFORMED BY THE MANUFACTURER AND SHALL NOT BE PERFORMED BY A 3RD PARTY. THE RESULTS OF THE STUDY AND APPROPRIATE EQUIPMENT SELECTIONS AS A RESULT OF THE STUDY SHALL BE INCLUDED IN THE ELECTRICAL DISTRIBUTION EQUIPMENT SHOP DRAWINGS. ANY ADJUSTMENTS IN EQUIPMENT CAPACITIES, CIRCUIT BREAKER TYPES, ETC. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

88. APPLY U.L. APPROVED FIRE STOPPING ("3M" FIRE STOP SEALANT 2000 AND/OR "3M" FIRE BARRIER CP25 WB) TO ALL PENETRATIONS OF FIRE RATED FLOORS, WALL AND CEILING ASSEMBLIES. RATING MUST RE-ESTABLISH THE ORIGINAL FIRE RESISTANCE.

89. IN THE EVENT ANY OF THE WIRE AND CONDUIT THAT IS EXISTING TO REMAINS NEED TO BE REPLACED, THE CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR WIRE AND CONDUIT.

90. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH DEDICATED (UNSHARED) NEUTRAL CONDUCTORS.

91. ALL RECEPTACLES WITHIN 6' OF WATER SHALL BE GFI.

MARY ELAINE DASTI, PE
SENIOR VICE PRESIDENT, MARKET LEADER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE NO. 246E05120300

LITTLE EGG HARBOR TOWNSHIP
DEPARTMENT OF PUBLIC WORKS FACILITY
IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

ELECTRICAL GENERAL NOTES

AND

YOUR GOALS. OUR MISSION.

1144 HOOPER AVENUE, SUITE 202
TOMS RIVER, NJ 08753
TEL 732-473-3400
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NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 246A2798700

OFFICES LOCATED IN:
CALIFORNIA, INDIANA, KENTUCKY,
MASSACHUSETTS, MICHIGAN, NEW JERSEY,
OHIO AND PENNSYLVANIA

DESIGNED BY	JUG	DRAWING	
CHECKED BY	AM	E-0	
DRAWN BY	JUG	SHEET	
DATE	10/7/2026	25	
SCALE	AS NOTED		
PROJ. NO.	LEHT01952	OF	37

THE OWNER WILL OCCUPY THE SITE AND EXISTING BUILDING(S) DURING THE ENTIRE CONSTRUCTION PERIOD. COOPERATE WITH THE OWNER DURING CONSTRUCTION OPERATIONS TO AVOID ANY CONFLICTS. PERFORM THE WORK SO AS NOT TO INTERFERE WITH THE OWNER'S OPERATIONS. SCHEDULE ALL POWER OUTAGES IN ADVANCE WITH OWNER FOR OVERTIME ON SUNDAYS AND HOLIDAYS AT NO ADDITIONAL COST TO THE OWNER.

VERIFY THAT FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS INDICATED.

1. THE ELECTRICAL CONTRACTOR SHALL MEASURE THE STEADY STATE LOAD CURR

16. FOR ANY ABOVE CEILING SPACE THAT, AS A RESULT OF NEW CONSTRUCTION WILL BECOME AN "EXPOSED" CONDITION, THE ELECTRICAL CONTRACTOR SHALL RE-ROUTE, RE-CONFIGURE AND RE-BUNDLE ALL NEW AND EXISTING WIRING & RACEWAYS AS NECESSARY TO PROVIDE A NEAT, WORKMAN-LIKE CONDITION TO THE SATISFACTION OF THE ARCHITECT OR ENGINEER. ROUTE AND BUNDLE ALL WIRING, RACEWAYS, ETC. TIGHT TO BEAMS, TIGHT TO UNDERSIDE OF STRUCTURE, PARALLEL TO MAJOR ELEMENTS AND AT 90 DEGREE ANGLES TO MAJOR ELEMENTS IN THE EXPOSED SPACE.
17. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, WIRING DEVICES, RACEWAY, WIRING, CABLE, OUTLET BOXES, ETC. ABANDONED OR REPLACED AS A RESULT OF THIS WORK. DISCONNECT APPLIANCES, ETC., FOR REMOVAL BY OTHERS.
18. EXISTING PROJECT CONDITIONS INDICATED ARE BASED ON FIELD OBSERVATION, EXISTING DESIGN / CONSTRUCTION DOCUMENTS AND EXISTING RECORD DOCUMENTS AND ARE INTENDED TO INDICATE THE SCOPE OF THE WORK AFFECTED BY THIS PROJECT.
19. DISCONNECT EXISTING ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS INDICATED FOR REMOVAL.
20. REPAIR OPENINGS LEFT IN BUILDING COMPONENTS AS A RESULT OF REMOVAL OF ELECTRICAL WORK AND RESTORE ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING REMOVAL OF EXISTING ELECTRICAL WORK. PROVIDE MATCHING TILES IN ACCESSIBLE CEILINGS.

1. THE ELECTRICAL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
2. ALL CONDUIT RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. THE FINAL ROUTING OF RUNS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE ENGINEER. CONDUIT SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS. CONDUIT SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO EQUIPMENT.
3. EXISTING UNDERGROUND PIPE, CONDUIT AND APPURTENANCES ARE NOT SHOWN. CONTRACTOR SHALL LOCATE ALL EXISTING SUBSURFACE EQUIPMENT WHICH MAY CONFLICT WITH NEW CONSTRUCTION SO AS TO AVOID CONFLICTS OR DAMAGE.
4. WIRE SIZES SHOWN ON PLANS MAY BE OVERSIZED TO ACCOMMODATE VOLTAGE DROP. CONTRACTOR MAY ELECT TO TAP DOWN WIRE SIZE AT SOURCE AND/OR APPLIANCE IN A LISTED MANNER COMPLIANT WITH THE CODE.
5. CONTRACTOR SHALL PROVIDE APPURTENANCES AS REQUIRED (TRANSFORMERS, RELAYS, ETC.) TO PROVIDE THE PROPER POWER SUPPLY FOR ANY VOLTAGES REQUIRED FOR A COMPLETE INSTALLATION. ANY VOLTAGE SUPPLIES REQUIRED BY THE SUBMITTED EQUIPMENT, FOR POWER OR CONTROLS, SHALL BE INCLUDED.
6. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ELECTRICAL WIRE RACEWAYS, APPARATUS AND PANEL ENCLOSURES AND OTHER NON-CURRENT CARRYING METAL PARTS SHALL BE MECHANICALLY JOINED TO FORM A CONTINUOUS CONDUCTING METALLIC PATH AND BE EFFECTIVELY GROUNDED. THE GROUNDING CIRCUITS, THE STRANDED COPPER BONDING JUMPER CABLES AND/OR GROUND WIRES SHALL BE INSTALLED WHERE REQUIRED, THE SURFACE WHERE GROUNDING CONNECTIONS ARE TO BE MADE SHALL BE CLEAN AND DRY. STEEL SURFACES SHALL BE GROUND OR FILED TO REMOVE ALL SCALE, RUST, GREASE AND DIRT. COPPER AND GALVANIZED STEEL SHALL BE CLEANED WITH EMERY CLOTH TO REMOVE OXIDE BEFORE MAKING CONNECTIONS.
- 6.1. MOTOR AND POWER DISTRIBUTION EQUIPMENT SHALL BE EFFECTIVELY GROUNDED USING A GROUND CONDUCTOR.
- 6.2. CONTROL AND INSTRUMENTATION EQUIPMENT SHALL BE EFFECTIVELY GROUNDED USING A GROUND CONDUCTOR, METALLIC RACEWAY, OR A COMBINATION OF THE TWO.
7. THE TYPE CONDUIT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

APPLICATION	TYPE
INDOOR LOCATIONS	SCH. 40 PVC
OUTDOOR ABOVE GRADE LOCATIONS	RMC
OUTDOOR BELOW GRADE LOCATIONS	SCH. 40 PVC

DRAWING No.	TITLE
E-0	ELECTRICAL GENERAL NOTES
E-1	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E-2	ELECTRICAL SPECIFICATION
E-3	ELECTRICAL SPECIFICATION (CONTINUED)
E-4	ELECTRICAL POWER PLAN
E-5	ELECTRICAL LIGHTING PLAN
E-6	ELECTRICAL DETAILS

SYMBOL	DESCRIPTION
	PANELBOARD – SURFACE MOUNTED
	PANELBOARD – SURFACE MOUNTED – EXISTING
	DISTRIBUTION TYPE PANELBOARD – SURFACE MOUNTED
	TRANSFORMER – REFER TO TRANSFORMER SCHEDULE
	DISCONNECT SWITCH – UNFUSED. (SWITCH AMPS)
	DISCONNECT SWITCH WITH MOTOR – UNFUSED. (SWITCH AMPS)
	MOTOR STARTER WITH THERMAL RATED MOTOR SWITCH
	JUNCTION BOX – CEILING MOUNTED
	DUPLEX RECEPTACLE, NEMA 5-20R
	DOUBLE DUPLEX (QUAD) RECEPTACLE, NEMA 5-20R
	MECHANICAL EQUIPMENT TAG
	PANEL DESIGNATION TAG, DENOTES ALL WIRING DEVICES AND EQUIPMENT IN THIS SPACE SHALL BE CIRCUITED TO THE PANEL DESIGNATED UNLESS OTHERWISE NOTED

SYMBOL	DESCRIPTION
	AC GENERAL USE SNAP SWITCH, 20 AMPERE, 120-277 VAC. - SINGLE POLE
	LOW VOLTAGE WALL SWITCH - DIMMING & OCCUPANCY SENSING
	CEILING MOUNTED OCCUPANCY SENSOR
	LED FIXTURE - RECESSED OR SURFACE MOUNTED, REFER TO LIGHTING FIXTURE SCHEDULE
	DOWNLIGHT FIXTURE - RECESSED OR SURFACE MOUNTED, REFER TO LIGHTING FIXTURE SCHEDULE
	EXIT SIGN - SINGLE FACE, CEILING MOUNTED

SYMBOL	DESCRIPTION
▼	TELECOMM OUTLET - DATA

SYMBOL	DESCRIPTION
	ADDRESSABLE SMOKE DETECTOR – PHOTOELECTRIC TYPE, CEILING MOUNTED
	ADDRESSABLE SMOKE DETECTOR – PHOTOELECTRIC TYPE, DUCT MOUNTED, PROVIDE HOUSING AND SAMPLING TUBES.
	ADDRESSABLE HEAT DETECTOR – COMBINATION RATE OF RISE AND FIXED TEMPERATURE TYPE, CEILING MOUNTED
	MANUAL STATION – PULL STATION / FIRE ALARM BOX
	NOTIFICATION APPLIANCE – MINI HORN WITH LIGHT
15	NOTIFICATION APPLIANCE – AUDIBLE/VISUAL DEVICE, 15 DENOTES CANDELA LEVEL
15	NOTIFICATION APPLIANCE – VISUAL ONLY DEVICE, 15 DENOTES CANDELA LEVEL
	NOTIFICATION APPLIANCE – AUDIBLE ONLY DEVICE
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM NOTIFICATION APPLIANCE EXTENDER CABINET

SYMBOL	DESCRIPTION
A	AMPERAGE
AC	ARMORED CABLE
AF	AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHC	ABOVE HUNG CEILING
AMPS	AMPERAGE
AT	CIRCUIT BREAKER TRIP AMPS
BC	BELOW COUNTER
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BJ	BONDING JUMPER
C	CONDUIT
CB	CIRCUIT BREAKER
CH	CABINET HEATER
CIR	CIRCUIT
CKT	CIRCUIT
EC	EMPTY CONDUIT
EGB	EQUIPMENT GROUND BUS
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING.
EP	EXPLOSION PROOF
EPDM	ETHYLENE--PROPYLENE--DIENE TERPOLYMER RUBBER
FMC	FLEXIBLE METAL CONDUIT (MC CABLE)
FTL	FEED THROUGH LUGS
G	GROUND
GB	GROUND BAR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
HAC	HEALTH CARE FACILITY ARMORED CABLE
IC	INTERRUPTING CURRENT
IG	ISOLATED GROUND
IGB	ISOLATED GROUND BUS
IMC	INTERMEDIATE METAL CONDUIT
KCMIL	THOUSAND CIRCULAR MILL
KVA	KILO VOLT AMPERES
KW	KILO WATTS
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NON--METALLIC CONDUIT
LTG	LIGHTING
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MI	MINERAL INSULATED
MLO	MAIN LUGS ONLY
N	NEUTRAL (GROUNDED CIRCUIT CONDUCTOR)
NBR	ACRYLONITRILE--BUTADIENE RUBBER
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
P	POLE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RNC	RIGID NON--METALLIC CONDUIT
SF	SQUARE FEET
SM	SURFACE MOUNTED
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
TELECOMM	TELECOMMUNICATIONS
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT AMPERES
VAC	VOLTS, ALTERNATING CURRENT
W	WIRE
WP	WEATHER PROOF -- NEMA 3R
ø	PHASE
Y	WYE
Δ	DELTA
&	AND
#	NUMBER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. 24GE05120300

ELECTRICAL SYMBOLS



NEW JERSEY BOARD OF PROFESSIONAL ENGINEERS
AND LAND SURVEYORS
CERTIFICATE OF AUTHORIZATION 24GA27987500

DESIGNED BY

CHECKED BY

DRAWN BY

DATE _____

SCALE

AS NOTED

PROJ. NO.

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PROJECT INFORMATION:
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FILE NAME: LEHT01952-ELECTRICAL.dwg
LAST SAVED DATE AND TIME: 07 Oct 2026, 12:15PM
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010000 GENERAL REQUIREMENTS

1. GENERAL

- A. DEFINITIONS:
- a. FURNISH: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER, COMPLETE WITH RELATED ACCESSORIES.
- b. INSTALL: TO ERECT, MOUNT AND CONNECT, COMPLETE WITH RELATED ACCESSORIES.
- c. PROVIDE: TO FURNISH AND INSTALL.
- d. FEEDER, WIRING, BRANCH CIRCUITRY, CIRCUITRY, CIRCUIT, CABLING, RACEWAY, FITTINGS, BOXES, WIRE, AND/OR CABLE AND RELATED APPURTENANCES.
- e. ELECTRICAL CONTRACTOR, THE CONTRACTOR, THIS CONTRACTOR: THE CONTRACTOR FOR ELECTRICAL WORK, WHICH IS SPECIFIED HEREIN AND SHOWN ON THE DRAWINGS.
- f. OWNER: THE INDIVIDUAL OR ENTITY HOLDING OWNERSHIP OF THE PROPERTY, OR A DESIGNATED REPRESENTATIVE THEREOF, WHERE THE WORK IS TO BE PERFORMED.
- B. COMPLY WITH THE LATEST ADOPTED EDITIONS OF ALL APPLICABLE CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO:
- a. INTERNATIONAL BUILDING CODE - NEW JERSEY EDITION (IBC-NJ);
- b. INTERNATIONAL BUILDING CODE NEW JERSEY EDITION (IBC-NJ)
- c. INTERNATIONAL FUEL GAS CODE (IFGC)
- d. NEW JERSEY UNIFORM CONSTRUCTION CODE (NUCC)
- e. NATIONAL ELECTRICAL CODE (NEPA 70)
- f. NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS (NFPA)
- g. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
- h. FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
- i. NEW JERSEY BARRIER FREE REQUIREMENTS
- j. ANY APPLICABLE BUILDING AND/OR CLIENT BUILDING STANDARDS
- C. CONTRACTOR-FURNISHED PRODUCTS
- a. CONTRACTOR SHALL FURNISH PRODUCTS INDICATED. THE WORK INCLUDES DELIVERING, UNLOADING, HANDLING, STORING AND PROTECTING CONTRACTOR-FURNISHED PRODUCTS AS DIRECTED AND TURNING THEM OVER TO OWNER AT PROJECT CLOSEOUT.
- D. ACCESS TO SITE
- a. LIMIT USE OF PROJECT SITE TO WORK IN AREAS INDICATED. DO NOT DISTURB PORTIONS OF PROJECT SITE BEYOND AREAS IN WHICH THE WORK IS INDICATED.
- b. THE CONTRACTORS' BID SHALL INCLUDE ALL COSTS ASSOCIATED WITH AFTER-HOURS WORK/PREMIUM TIME NECESSARY TO PREVENT DISRUPTION TO THE OWNER'S OPERATIONS OR BUILDING OCCUPANTS.
- E. COORDINATION WITH OCCUPANTS
- a. COOPERATE WITH OWNER DURING CONSTRUCTION OPERATIONS TO MINIMIZE CONFLICTS AND FACILITATE OWNER USAGE. PERFORM THE WORK SO AS NOT TO INTERFERE WITH THE OWNER'S DAY-TO-DAY OPERATIONS.
- b. COORDINATE THE ELECTRICAL WORK WITH ALL OTHER AFFECTED WORK AND THE CONSTRUCTION SCHEDULE.
- c. COORDINATE WITH THE WORK OF OTHER TRADES. INDICATED ROUTING OF ALL ELECTRICAL AND FIRE ALARM SYSTEMS IS APPROXIMATE. PROVIDE OFFSETS AND MINOR DEVIATIONS TO INDICATED ROUTINGS AS REQUIRED TO COORDINATE WITH THE WORK OF OTHER TRADES AND THE GENERAL BUILDING CONDITIONS.

2. PRODUCTS

- A. PROVIDE ALL MATERIALS, TOOLS, SUPERVISION AND LABOR REQUIRED FOR THE ELECTRICAL INSTALLATION SHOWN OR DESCRIBED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- b. PROVIDE SPARE PARTS AS FOLLOWS:
- a. FUSES: (3) SPARE FUSES FOR EACH TYPE AND RATING USED IN THE PROJECT.
- b. LAMPS: (1) STANDARD CASE OF EACH TYPE AND RATING USED IN THE PROJECT.
- c. TURN SPARE PARTS OVER TO THE OWNER FOR FUTURE USE.
- d. ALL PRODUCTS AND MATERIALS SHALL BE NEW AND LISTED BY A RECOGNIZED TESTING LABORATORY.
- E. COLOR AND FINISH SELECTIONS FOR ALL PRODUCTS AND MATERIALS SHALL BE AS DIRECTED OR APPROVED BY THE ARCHITECT.
- F. ALL COMPONENTS AND ACCESSORIES OF EQUIPMENT AND PRODUCTS OF THE MECHANICAL WORK SHALL BE INCLUDED SO AS TO MAKE THE WORK COMPLETE IN ALL RESPECTS, EVEN IF NOT INDICATED OR SPECIFIED.

3. EXECUTION

- A. OBTAIN ALL PERMITS, PAY ALL FEES AND SCHEDULE ALL REQUIRED INSPECTIONS. COPIES OF ALL PERMITS AND INSPECTION CERTIFICATES SHALL BE FORWARDED TO THE OWNER FOR RECORD.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING AND NEW CONDITIONS AND MATERIALS WITHIN THE CONSTRUCTION AREA. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE OWNER'S SATISFACTION.
- C. CONTACT UTILITY SERVICE PROVIDERS, COORDINATE AND ARRANGE FOR THE INSTALLATION OF ALL UTILITY SERVICES INCLUDING PAYMENT OF ALL APPLICABLE FEES.
- D. THE GENERAL CONDITIONS OF THE CONTRACT AND ALL DIVISION 1 REQUIREMENTS APPLY TO THE WORK OF THIS SECTION.
- E. COMPLY WITH THE REGULATIONS AND REQUIREMENTS OF ALL UTILITY SERVICE PROVIDERS AND ALL AUTHORITIES HAVING JURISDICTION.
- F. COMPLY WITH ALL THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER.
- G. WHERE APPLICABLE, COMPLY WITH THE PUBLISHED REQUIREMENTS OR STANDARDS OF THE OWNER.
- H. INSTALL DUCTWORK, PIPING, AND EQUIPMENT IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THE INSTALLATION COMPLIES WITH REQUIREMENTS AND SERVES INTENDED PURPOSES. MAINTAIN ALL REQUIRED AND RECOMMENDED CLEARANCES.
- I. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID TO DETERMINE ALL CONDITIONS AFFECTING HIS SCOPE OF WORK AND BID PRICE.
- J. SUBMITTALS
- a. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING AS REQUIRED FOR THE PROJECT:
- a1. PANELBOARDS: TYPEWRITTEN DIRECTORY OF CIRCUITS IN THE LOCATION PROVIDED BY PANELBOARD MANUFACTURER. PANELBOARD IDENTIFICATION SHALL BE SELF-ADHESIVE, OR ENGRAVED LAMINATED ACRYLIC OR MELAMINE LABEL.
- a2. ENCLOSURES AND ELECTRICAL CABINETS.
- a3. ACCESS DOORS AND PANELS FOR CONCEALED ELECTRICAL ITEMS.
- a4. TRANSFORMERS: LABEL THAT INCLUDES TAG DESIGNATION SHOWN ON DRAWINGS FOR THE TRANSFORMER, FEEDER, AND PANELBOARDS OR EQUIPMENT SUPPLIED BY THE SECONDARY.
- a5. ENCLOSED SWITCHES.
- a6. REMOTE-CONTROLLED SWITCHES, DIMMER MODULES, AND CONTROL DEVICES.
- a7. LIGHT SWITCHES.
- a8. WIRING DEVICES.
- a9. FIRE ALARM DEVICES.
- a10. LIGHTING FIXTURES.
- a11. TELECOM DEVICES.
- a12. RECEPTACLES.
- b. SUBMITTALS FROM SUPPLIERS OR MANUFACTURERS WHICH DO NOT BEAR THE STAMP OF THE SUBMITTING CONTRACTOR INDICATING THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR CONFORMANCE WITH THE PROJECT REQUIREMENTS WILL BE RETURNED REJECTED.
- c. THE ENGINEER'S REVIEW OF SUBMITTALS IS A COURTESY WHICH DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMING WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS, REGARDLESS OF THE ACTION INDICATED BY THE SHOP DRAWINGS STAMP.
- d. REVIEW OF SHOP DRAWINGS BY THE ENGINEER SHALL BE LIMITED TO THE INITIAL REVIEW, AND A SECOND REVIEW OF ANY REQUIRED RESUBMITTED DATA, IF THE ENGINEER IS REQUIRED TO REVIEW SHOP DRAWINGS FOR A THIRD (OR MORE) SUBMISSION OF THE SAME ITEM, THE CONTRACTOR SHALL BE LIABLE FOR COMPENSATING THE ENGINEER FOR THESE SUBSEQUENT REVIEWS AS PER THE ENGINEER'S CURRENT HOURLY RATE SCHEDULE.
- e. SUBMITTALS ARE ACCEPTABLE IN ELECTRONIC FORMAT. ELECTRONIC FORMAT SHALL BE PORTABLE DOCUMENT FORMAT.
- f. SUBMIT CLOSE-OUT DOCUMENTS, INCLUSIVE OF ALL EQUIPMENT O&M MANUALS, WARRANTIES, AND AS-BUILT DRAWINGS INDICATING ALL ALTERATIONS, ADDITIONS AND DELETIONS OF THE SYSTEMS DESIGNED AND AS SHOWN ON THE CONTRACT DOCUMENTS.
- g. SUBMITTALS FROM SUPPLIERS OR MANUFACTURERS WHICH DO NOT BEAR THE STAMP OF THE SUBMITTING CONTRACTOR INDICATING THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WILL BE RETURNED REJECTED.
- h. THE ENGINEER'S REVIEW OF SUBMITTALS IS A COURTESY WHICH DOES NOT RELIEVE THE CONTRACTOR FROM CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, REGARDLESS OF THE ACTION INDICATED BY THE SHOP DRAWING STAMP.
- i. SUBSTITUTIONS: ALL SPECIFIED EQUIPMENT SHALL SERVE AS THE BASIS OF DESIGN. ALL BIDS SHALL BE BASED ON THE SPECIFIED MANUFACTURER(S). SUBSTITUTIONS OF OTHER MANUFACTURER'S EQUIPMENT SHALL BE CONSIDERED BY THE ENGINEER. PROVIDED THE SUBSTITUTION IS INDICATED PRIOR TO BIDDING, WITH THE REASON FOR THE PROPOSED SUBSTITUTION IDENTIFIED, AND THE PROPOSED CREDIT TO THE OWNER INDICATED. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR COORDINATING THE WORK OF OTHER TRADES THAT ARE AFFECTED BY SUBSTITUTIONS, INCLUSIVE OF ALL RELATED COSTS.

K. SUBSTITUTIONS

- a. ALL EQUIPMENT SHALL BE PRODUCTS OF THE SPECIFIED MANUFACTURER OR MANUFACTURERS. ALL BIDS SHALL BE BASED ON THE SPECIFIED MANUFACTURER OR MANUFACTURER'S EQUIPMENT. FOR SUBSTITUTIONS OF OTHER MANUFACTURER'S EQUIPMENT TO BE CONSIDERED, THE SUBSTITUTION MUST BE INDICATED PRIOR TO BIDDING, WITH THE REASON FOR THE PROPOSED SUBSTITUTION IDENTIFIED, AND THE PROPOSED CREDIT TO THE (OWNER) INDICATED. THE ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF ANY PROPOSED SUBSTITUTIONS.
- b. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR COORDINATING THE WORK OF OTHER TRADES WHICH MAY BE AFFECTED BY SUBSTITUTIONS, INCLUDING ALL RELATED COSTS.

L. DRAWINGS

- a. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE APPROXIMATE LOCATIONS OF LIGHTING FIXTURES, OUTLETS, EQUIPMENT, FEEDER RUNS, BRANCH CIRCUITS, ETC. PRECISE LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE ARCHITECT, ARCHITECTURAL DRAWINGS, OTHER TRADES OR THE OWNER AS CONSTRUCTION PROCEEDS.
- b. PROVIDE ALL NECESSARY INCIDENTAL MATERIALS AND APPURTENANCES REQUIRED TO FACILITATE A COMPLETE AND FULLY OPERATIONAL SYSTEM, IN ALL RESPECTS, EVEN IF NOT PARTICULARLY SHOWN OR SPECIFIED.
- c. COORDINATE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES. THIS CONTRACTOR SHALL PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS EVEN IF NOT PARTICULARLY SHOWN OR SPECIFIED HEREIN.
- M. BASIC ELECTRICAL METHODS
- a. ALL WORK WHICH REQUIRES DISRUPTION OF THE ROOFING SHALL BE DONE BY A CONTRACTOR CERTIFIED BY THE ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ANY EXISTING ROOF WARRANTIES.
- b. EXTERIOR INSTALLATIONS TO BE WEATHER PROOF IN ALL RESPECTS.
- c. EXTERIOR MATERIALS AND FINISHES SHALL BE PAINTED OR FINISHED TO PREVENT CORROSION, COLOR PER THE ARCHITECT.
- d. ALL CONDUIT PENETRATIONS THROUGH PARTITION, FLOOR OR CEILING ASSEMBLIES SHALL BE STEEL SLEEVED. PENETRATIONS THROUGH FIRE RATED PARTITIONS, FLOOR OR CEILING ASSEMBLIES SHALL BE SEALED WITH STI BRANED UL RATED FIRE BARRIER CAULK OR APPROVED EQUAL.
- e. THE CONTRACTOR FOR ELECTRICAL WORK IS RESPONSIBLE FOR ALL CUTTING AND PATCHING ASSOCIATED WITH THE ELECTRICAL WORK. FINISHED OPENINGS SHALL MATCH EXISTING ADJACENT CONSTRUCTION AND FINISHES.
- f. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE EQUIPMENT OR PRODUCT MANUFACTURER'S RECOMMEND INSTALLATION INSTRUCTIONS.
- F. EXISTING CONDITIONS
- a. VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES AND PANELS PRIOR TO COMMENCING WITH THE ELECTRICAL WORK.
- b. VERIFY ALL INDICATED EXISTING CONDITIONS BEFORE STARTING WORK AND REPORT ANY DISCREPANCIES. THE DRAWINGS REFLECT CONDITIONS WHICH CAN BE REASONABLY INTERPRETED FROM THE EXISTING VISIBLE CONDITIONS OR FROM DRAWINGS AND INFORMATION FURNISHED BY THE OWNER. BY COMMENCING WORK, THE CONTRACTOR ACKNOWLEDGES HIS CONFIRMATION OF ALL EXISTING CONDITIONS AS ACCEPTABLE WITH REFERENCE TO HIS CONTRACT, SCOPE OF WORK AND BID PRICE.
- G. TEMPORARY LIGHT AND POWER
- a. PROVIDE AND MAINTAIN A TEMPORARY LIGHT AND POWER SYSTEM DURING CONSTRUCTION OF THE PROJECT. THE TEMPORARY SERVICE SHALL BE 100 AMPERES AT 120/240 VOLTS, SINGLE PHASE. PROVIDE ONE LIGHTING OUTLET FOR EVERY 400 SQUARE FEET OF THE WORK AREA. MINIMUM ONE PER ROOM. LIGHTING OUTLETS SHALL CONSIST OF A PIGTAIL TYPE LAMP HOLDER, LAMP EACH OUTLET WITH A 150 WATT INCANDESCENT A21 LAMP.
- b. PROVIDE TEMPORARY GFCI PROTECTED RECEPTACLE OUTLETS AT LOCATIONS REQUIRED FOR POWER TOOL USE. ADJUST POSITION OF SUCH OUTLETS AS THE WORK PROCEEDS.
- c. ALL FEES AND UTILITY COMPANY CHARGES FOR ESTABLISHING THIS SERVICE SHALL BE PAID BY THE CONTRACTOR FOR ELECTRICAL WORK. ALL USAGE CHARGES SHALL BE PAID BY THE GENERAL CONTRACTOR.
- d. THE TEMPORARY LIGHT AND POWER SYSTEM SHALL BE INSTALLED AND MAINTAINED IN FULL COMPLIANCE WITH OSHA REGULATIONS.
- G. WARRANTY
- a. EQUIPMENT, MATERIALS AND WORKMANSHIP OF THE ELECTRICAL INSTALLATION SHALL BE WARRANTED BY THE CONTRACTOR FOR ELECTRICAL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROMPTLY CORRECT AND REPAIR ANY AND ALL BREAKS, FAILURES OR WEAR DUE TO FAULTY MATERIALS, WORKMANSHIP OR EQUIPMENT. ALL SETTLEMENTS OF SURFACES THAT MAY OCCUR WITHIN THAT PERIOD SHALL ALSO BE PROMPTLY REPAIRED.
- b. AT PROJECT CLOSE-OUT, THE CONTRACTOR SHALL FORWARD AN OWNER'S OPERATING AND MAINTENANCE MANUAL INCLUDING MANUFACTURER'S MANUALS FOR ALL EQUIPMENT FURNISHED, A LIST OF EQUIPMENT SUPPLIERS, COPIES OF SERVICE CONTRACTS, CONTRACTOR'S WARRANTY ON INSTALLATION, AND MANUFACTURER'S WARRANTIES ON EQUIPMENT SUPPLIED.
- H. FIELD QUALITY CONTROL
- a. THE COMPLETION OF THE ELECTRICAL WORK, COMPLETELY TEST THE ENTIRE ELECTRICAL INSTALLATION FOR PROPER OPERATION. CORRECT ALL DEFICIENCIES FOUND.

260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

1. GENERAL

1.01 SUMMARY

- A. SECTION INCLUDES BUILDING WIRE AND CABLE: NONMETALLIC-SHEATHED CABLE; DIRECT BURIAL CABLE; SERVICE ENTRANCE CABLE; ARMORED CABLE; METAL CLAD CABLE; AND WIRING CONNECTORS AND CONNECTIONS.

1.02 REFERENCES

- A. INTERNATIONAL ELECTRICAL TESTING ASSOCIATION:
- a. NETA ATS - ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND MATERIALS
- B. NATIONAL FIRE PROTECTION ASSOCIATION:
- a. NFPA 70 - NATIONAL ELECTRICAL CODE.
- b. NFPA 262 - STANDARD METHOD OF TEST FOR FLAME TRAVEL AND SMOKE OF WIRES AND CABLES FOR USE IN AIR-HANDLING SPACES.
- C. UNDERWRITERS LABORATORIES, INC.:
- a. UL 1277 - STANDARD FOR SAFETY FOR ELECTRICAL POWER AND CONTROL TRAY CABLES WITH OPTICAL FIBER MEMBERS.

1.03 SYSTEM DESCRIPTION

- A. PRODUCT REQUIREMENTS: PROVIDE PRODUCTS AS FOLLOWS:
- a. SOLID CONDUCTOR FOR FEEDERS AND BRANCH CIRCUITS TO AWG AND SMALLER.
- b. STRANDED CONDUCTORS FOR CONTROL CIRCUITS.
- c. CONDUCTOR NOT SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS.
- d. CONDUCTOR NOT SMALLER THAN 16 AWG FOR CONTROL CIRCUITS.
- e. INCREASE WIRE SIZE IN BRANCH CIRCUITS TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3 PERCENT.
- B. WIRING METHODS: PROVIDE THE FOLLOWING WIRING METHODS:
- a. CONCEALED DRY INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY, ARMORED CABLE OR METAL CLAD CABLE.
- b. EXPOSED DRY INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
- c. ABOVE ACCESSIBLE CEILINGS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY, ARMORED CABLE OR METAL CLAD CABLE.
- d. WET OR DAMP INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY, ARMORED CABLE OR METAL CLAD CABLE.
- e. EXTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
- f. UNDERGROUND LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN (XHHW FOR SERVICES) INSULATION, IN RACEWAY.
- g. CABLE TRAY LOCATIONS: USE ONLY TRAY CABLE TYPE TC.

1.04 DESIGN REQUIREMENTS

- A. CONDUCTOR SIZES ARE BASED ON COPPER UNLESS INDICATED AS ALUMINUM OR "AL". WHEN ALUMINUM CONDUCTOR IS SUBSTITUTED FOR COPPER CONDUCTOR, SIZE TO MATCH CIRCUIT REQUIREMENTS, TERMINATIONS, CONDUCTOR AMPACITY AND VOLTAGE DROP.
- B. PRODUCT DATA: SUBMIT FOR BUILDING WIRE AND EACH CABLE ASSEMBLY TYPE.
- C. DESIGN DATA: INDICATE VOLTAGE DROP AND AMPACITY CALCULATIONS FOR ALUMINUM CONDUCTORS SUBSTITUTED FOR COPPER CONDUCTORS.
- D. TEST REPORTS: INDICATE PROCEDURES AND VALUES OBTAINED.

1.06 CLOSEOUT SUBMITTALS

- A. PROJECT RECORD DOCUMENTS: RECORD ACTUAL LOCATIONS OF COMPONENTS AND CIRCUITS.

1.07 QUALITY ASSURANCE

- A. PROVIDE WIRING MATERIALS LOCATED IN PLenums WITH PEAK OPTICAL DENSITY NOT GREATER THAN 0.5, AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15, AND FLAME SPREAD NOT GREATER THAN 5 FEET (1.5 M) WHEN TESTED IN ACCORDANCE WITH NFPA 262.
- B. MAINTAIN ONE COPY OF EACH DOCUMENT ON SITE.

1.08 QUALIFICATIONS

- A. MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN

THIS SECTION WITH MINIMUM THREE YEARS EXPERIENCE.

1.09 FIELD MEASUREMENTS

- A. VERIFY FIELD MEASUREMENTS ARE AS INDICATED ON DRAWINGS.

1.10 COORDINATION

- A. WHERE WIRE AND CABLE DESTINATION IS INDICATED AND ROUTING IS NOT SHOWN, DETERMINE ROUTING AND LENGTHS REQUIRED.
- B. WIRE AND CABLE ROUTING INDICATED IS APPROXIMATE UNLESS DIMENSIONED.

1. PRODUCTS

- 2.01 BUILDING WIRE AND CABLE
- A. PRODUCT DESCRIPTION: SINGLE OR MULTI- CONDUCTOR INSULATED WIRE.
- B. CONDUCTOR: COPPER.
- C. INSULATION VOLTAGE RATING: 600 VOLTS.
- D. INSULATION TEMPERATURE RATING: 75 DEGREES C UNLESS OTHERWISE NOTED.
- 2.02 ARMORED OR METAL CLAD CABLE
- A. CONDUCTOR: COPPER.
- B. INSULATION VOLTAGE RATING: 600 VOLTS.
- C. INSULATION TEMPERATURE RATING: 75 DEGREES C.
- D. ARMOR MATERIAL: STEEL, EXCEPT WHERE ALUMINUM IS NOTED ON DRAWINGS.
- E. ARMOR DESIGN: INTERLOCKED METAL TYPE.
- F. JACKET: PVC WHERE REQUIRED.
- 2.03 TRAY CABLE
- A. PRODUCT DESCRIPTION: MULTICONDUCTOR POWER AND CONTROL CABLE NFPA 70 TYPE TO
- B. CONDUCTOR: COPPER.
- C. INSULATION: FLAME-RETARDANT CROSS-LINKED POLYETHYLENE.
- D. OVERALL JACKET: POLYVINYL CHLORIDE (PVC) IN ACCORDANCE WITH UL 1277.
- E. INSULATION VOLTAGE RATING: 600 VOLTS.
- F. INSULATION TEMPERATURE RATING: 90 DEGREES C.
- G. LISTINGS: FINISHED CABLE UL LISTED AS TYPE TC, TC, AND SUNLIGHT RESISTANT.
- 2.04 TERMINATIONS
- A. TERMINAL LUGS FOR WIRES 6 AWG AND SMALLER: SOLDERLESS, COMPRESSION TYPE COPPER.
- B. LUGS FOR WIRES 4 AWG AND LARGER: COLOR KEYED, COMPRESSION TYPE COPPER, WITH INSULATING SEALING COLLARS.

2. EXECUTION

3.01 EXAMINATION

- A. VERIFY INTERIOR OF BUILDING HAS BEEN PROTECTED FROM WEATHER.
- B. VERIFY MECHANICAL WORK LIKELY TO DAMAGE WIRE AND CABLE HAS BEEN COMPLETED.
- C. VERIFY RACEWAY INSTALLATION IS COMPLETE AND SUPPORTED.

3.02 PREPARATION

- A. COMPLETELY AND THOROUGHLY SWAB RACEWAY BEFORE INSTALLING WIRE.

3.03 EXISTING WORK

- A. REMOVE EXPOSED ABANDONED WIRE AND CABLE, INCLUDING ABANDONED WIRE AND CABLE ABOVE ACCESSIBLE CEILING FINISHES. PATCH SURFACES WHERE REMOVED CABLES PASS THROUGH BUILDING FINISHES.
- B. DISCONNECT ABANDONED CIRCUITS AND REMOVE CIRCUIT WIRE AND CABLE. REMOVE ABANDONED BOXES WHEN WIRE AND CABLE SERVING BOXES IS ABANDONED AND REMOVED. INSTALL BLANK COVER FOR ABANDONED BOXES NOT REMOVED.
- C. PROVIDE ACCESS TO EXISTING WIRING CONNECTIONS REMAINING ACTIVE AND REQUIRING ACCESS. MODIFY INSTALLATION OR INSTALL ACCESS PANEL.
- D. EXTEND EXISTING CIRCUITS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SPECIFIED.
- E. CLEAN AND REPAIR EXISTING WIRE AND CABLE REMAINING OR WIRE AND CABLE TO BE REINSTALLED.

3.04 INSTALLATION

- A. ROUTE WIRE AND CABLE TO MEET PROJECT CONDITIONS.
- B. NEATLY TRIM AND LACE WRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.
- C. IDENTIFY AND COLOR CODE WIRE AND CABLE. IDENTIFY EACH CONDUCTOR WITH ITS CIRCUIT NUMBER OR OTHER DESIGNATION INDICATED.
- D. SPECIAL TECHNIQUES--BUILDING WIRE IN RACEWAY:
- a. PULL CONDUCTORS INTO RACEWAY AT SAME TIME.
- b. INSTALL BUILDING WIRE 4 AWG AND LARGER WITH PULLING EQUIPMENT.
- E. SPECIAL TECHNIQUES - CABLE
- a. PROTECT EXPOSED CABLE FROM DAMAGE.
- b. SUPPORT CABLES ABOVE ACCESSIBLE CEILING, USING SPRING METAL CLIPS OR CABLE TIES TO SUPPORT CABLES FROM STRUCTURE OR CEILING SUSPENSION SYSTEMS DO NOT REST CABLE ON CEILING PANELS.
- c. USE SUITABLE CABLE FITTINGS AND CONNECTORS.
- F. SPECIAL TECHNIQUES - WIRING CONNECTIONS
- a. CLEAN CONDUCTOR SURFACES BEFORE INSTALLING LUGS AND CONNECTORS.
- b. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITH NO PERCEPTIBLE TEMPERATURE RISE.
- c. TAPE UNSHULATED CONDUCTORS AND CONNECTORS WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR.
- d. INSTALL SPLIT BOLT CONNECTORS FOR COPPER CONDUCTOR SPLICES AND TAPS, 6 AWG AND LARGER.
- e. INSTALL SOLDERLESS PRESSURE CONNECTORS WITH INSULATING COVERS FOR COPPER CONDUCTOR SPLICES AND TAPS, 8 AWG AND SMALLER.
- f. INSTALL INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR COPPER CONDUCTOR SPLICES AND TAPS, 10 AWG AND SMALLER.
- g. TERMINATE ALUMINUM CONDUCTORS WITH TIN-PLATED, ALUMINUM-BODIED COMPRESSION CONNECTORS ONLY. FILL WITH ANTI-OXIDANT COMPOUND BEFORE INSTALLING CONDUCTOR.
- h. INSTALL SUITABLE REDUCING CONNECTORS OR MECHANICAL CONNECTOR ADAPTORS FOR CONNECTING ALUMINUM CONDUCTORS TO COPPER CONDUCTORS.
- G. INSTALL STRANDED CONDUCTORS FOR BRANCH CIRCUITS TO 10 AWG AND SMALLER. INSTALL CRIMP ON FORK TERMINALS FOR DEVICE TERMINATIONS. DO NOT PLACE BARE STRANDED CONDUCTORS DIRECTLY UNDER DEVICE SCREWS.
- H. INSTALL TERMINAL LUGS ON ENDS OF 600 VOLT WIRES UNLESS LUGS ARE FURNISHED ON CONNECTED DEVICE, SUCH AS CIRCUIT BREAKERS.
- I. UNDERWRITERS LABORATORIES, INC.:
- a. WIRE SIZES. INSTALL 2-HOLE TYPE LUGS TO CONNECT WIRES 4 AWG AND LARGER TO COPPER BUS BARS.
- J. FOR TERMINAL LUGS FASTENED TOGETHER SUCH AS ON MOTORS, TRANSFORMERS, AND OTHER APPARATUS, OR WHEN SPACE BETWEEN STUDS IS SMALL ENOUGH THAT LUGS COLLIDE, TIGHTEN EACH OTHER, INSULATE FOR DIELECTRIC STRENGTH OF 2-1/2 TIMES NORMAL POTENTIAL OF CIRCUIT.

3.05 WIRE COLOR

- A. GENERAL:
1. FOR WIRE SIZES 10 AWG AND SMALLER, INSTALL WIRE COLORS IN ACCORDANCE WITH THE FOLLOWING:
- a. BLACK AND RED FOR SINGLE PHASE CIRCUITS AT 120/240 VOLTS.
- b. BLACK, RED, AND BLUE FOR CIRCUITS AT 120/208 VOLTS SINGLE OR THREE PHASE.
- c. ORANGE, BROWN, AND YELLOW FOR CIRCUITS AT 277/480 VOLTS SINGLE OR THREE PHASE.
2. FOR WIRE SIZES 8 AWG AND LARGER, IDENTIFY WIRE WITH COLORED TAPE AT TERMINALS, SPLICES AND BOXES. COLORS ARE AS FOLLOWS:
- a. BLACK AND RED FOR SINGLE PHASE CIRCUITS AT 120/240 VOLTS.
- b. BLACK, RED, AND BLUE FOR CIRCUITS AT 120/208 VOLTS SINGLE OR THREE PHASE.
- c. ORANGE, BROWN, AND YELLOW FOR CIRCUITS AT 277/480 VOLTS SINGLE OR THREE PHASE.
- B. NEUTRAL CONDUCTORS: WHITE, WHEN TWO OR MORE NEUTRALS ARE LOCATED IN ONE CONDUIT, INDIVIDUALLY IDENTIFY EACH WITH PROPER CIRCUIT NUMBER.
- C. BRANCH CIRCUIT CONDUCTORS: INSTALL THREE OR FOUR WIRE HOME RUNS WITH EACH PHASE UNIQUELY COLOR CODED.
- D. FEEDER CIRCUIT CONDUCTORS: UNIQUELY COLOR CODE EACH PHASE.
- E. GROUNDING CONDUCTORS:
1. FOR 6 AWG AND SMALLER: GREEN.
2. FOR 4 AWG AND LARGER: IDENTIFY WITH GREEN TAPE AT BOTH ENDS AND VISIBLE POINTS INCLUDING JUNCTION BOXES.

262416 PANELBOARDS

1. GENERAL

1.01 SUMMARY

- A. SECTION INCLUDES:
- a. DISTRIBUTION AND BRANCH CIRCUIT PANELBOARDS.
- b. ELECTRONIC GRADE BRANCH CIRCUIT PANELBOARDS.
- c. LOAD CENTERS.

1.02 REFERENCE STANDARDS

- A. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS:
- a. IEEE C82.41 - RECOMMENDED PRACTICE ON SURGE VOLTAGES IN LOW-VOLTAGE AC POWER CIRCUITS.
- B. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION:
- a. NEMA FU 1 - LOW VOLTAGE CARTRIDGE FUSES.
- b. NEMA ICS 2 - INDUSTRIAL CONTROL AND SYSTEMS: CONTROLLERS, CONTACTORS, AND OVERLOAD RELAYS, RATED NOT MORE THAN 2000 VOLTS AC OR 750 VOLTS DC.
- c. NEMA ICS 5 - INDUSTRIAL CONTROL AND SYSTEMS: CONTROL CIRCUIT AND PILOT DEVICES.
- d. NEMA KS 1 - ENCLOSED AND MISCELLANEOUS DISTRIBUTION EQUIPMENT SWITCHES (600 VOLTS MAXIMUM).
- e. NEMA PB 1 - PANELBOARDS.
- f. NEMA PB 1.1 - GENERAL INSTRUCTIONS FOR PROPER INSTALLATION, OPERATION, AND MAINTENANCE OF PANELBOARDS RATED 600 VOLTS OR LESS.
- C. INTERNATIONAL ELECTRICAL TESTING ASSOCIATION:
- a. NETA ATS - ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND SYSTEMS.
- D. NATIONAL FIRE PROTECTION ASSOCIATION:
- a. NEMA 70 - NATIONAL ELECTRICAL CODE.
- E. UNDERWRITERS LABORATORIES, INC.:
- a. UL 50 - CABINETS AND BOXES.
- b. UL 67 - SAFETY FOR PANELBOARDS.
- c. UL 489 - MOLDED-CASE CIRCUIT BREAKERS, MOLDED-CASE SWITCHES, AND CIRCUIT-BREAKER ENCLOSURES.
- d. UL 1283 - ELECTROMAGNETIC INTERFERENCE FILTERS.
- e. UL 1449 - TRANSIENT VOLTAGE SURGE SUPPRESSORS.
- f. UL 1699 - ARC-FAULT CIRCUIT INTERRUPTERS.

1.03 SUBMITTALS

- A. PRODUCT DATA: SUBMIT CATALOG DATA SHOWING SPECIFIED FEATURES OF STANDARD PRODUCTS.
- B. SHOP DRAWINGS: INDICATE OUTLINE AND SUPPORT POINT DIMENSIONS, VOLTAGE, MAIN BUS AMPACITY, INTEGRATED SHORT CIRCUIT AMPERE RATING, CIRCUIT BREAKER AND FUSIBLE SWITCH ARRANGEMENT AND SIZES.
- C. SOURCE QUALITY CONTROL SUBMITTALS: INDICATE RESULTS OF [SHOP] [FACTORY] TESTS AND INSPECTIONS.
- D. FIELD QUALITY CONTROL SUBMITTALS: INDICATE RESULTS OF CONTRACTOR FURNISHED TESTS AND INSPECTIONS.

- A. PRODUCT DATA: SUBMIT MANUFACTURER'S CATALOG INFORMATION SHOWING DIMENSIONS, COLORS, AND CONFIGURATIONS.
- B. SAMPLES: SUBMIT TWO SAMPLES OF EACH WIRING DEVICE AND WALL PLATE ILLUSTRATING MATERIALS, CONSTRUCTION, COLOR, AND FINISH.

1.4 QUALIFICATIONS

- A. MANUFACTURER: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS EXPERIENCE.

1.5 EXTRA MATERIALS

- A. FURNISH TWO OF EACH STYLE, SIZE, AND FINISH WALL PLATE.

3. PRODUCTS

2.1 WALL SWITCHES

- A. PRODUCT DESCRIPTION: NEMA WD 1, GENERAL-DUTY, AC ONLY GENERAL-USE SNAP SWITCH.
- B. RATINGS: MATCH BRANCH CIRCUIT AND LOAD CHARACTERISTICS.

2.2 WALL DIMMERS

- A. PRODUCT DESCRIPTION: NEMA WD 1; SEMICONDUCTOR DIMMER FOR INCANDESCENT LAMPS, TYPE AS INDICATED ON DRAWINGS.
- B. POWER RATING: AS INDICATED ON DRAWINGS.
- C. ACCESSORY WALL SWITCH: MATCH DIMMER APPEARANCE.

2.3 RECEPTACLES

- A. PRODUCT DESCRIPTION: NEMA WD 1, HEAVY-DUTY GENERAL USE RECEPTACLE.
- B. CONFIGURATION: NEMA WD 6, TYPE AS INDICATED ON DRAWINGS.
- C. CONVENIENCE RECEPTACLE: TYPE 5-20.
- D. GFCI RECEPTACLE: CONVENIENCE RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER TO MEET REGULATORY REQUIREMENTS.

2.4 WALL PLATES

- A. AS SELECTED BY THE OWNER.

2.5 MULTIOUTLET ASSEMBLY

- A. MULTI-OUTLET ASSEMBLY: SHEET METAL CHANNEL WITH FITTED COVER, WITH PRE-WIRED RECEPTACLES, SUITABLE FOR USE AS MULTI-OUTLET ASSEMBLY.
- B. RECEPTACLES: FURNISH COVERS AND ACCESSORIES TO ACCEPT CONVENIENCE RECEPTACLES SPECIFIED IN THIS SECTION.

4. EXECUTION

3.1 EXAMINATION

- A. VERIFY OUTLET BOXES ARE INSTALLED AT PROPER HEIGHT.
- B. VERIFY WALL OPENINGS ARE NEATLY CUT AND COMPLETELY COVERED BY WALL PLATES.
- C. VERIFY BRANCH CIRCUIT WIRING INSTALLATION IS COMPLETED, TESTED, AND READY FOR CONNECTION TO WIRING DEVICES.

3.2 PREPARATION

- A. CLEAN DEBRIS FROM OUTLET BOXES.

3.3 EXISTING WORK

- A. DISCONNECT AND REMOVE ABANDONED WIRING DEVICES.
- B. MODIFY INSTALLATION TO MAINTAIN ACCESS TO EXISTING WIRING DEVICES TO REMAIN ACTIVE.
- C. CLEAN AND REPAIR EXISTING WIRING DEVICES TO REMAIN OR TO BE REINSTALLED.

3.4 INSTALLATION

- A. INSTALL DEVICES PLUMB AND LEVEL.
- B. INSTALL SWITCHES WITH OFF POSITION DOWN.
- C. INSTALL WALL DIMMERS TO ACHIEVE FULL RATING SPECIFIED AND INDICATED AFTER DERATING FOR GANGING AS INSTRUCTED BY MANUFACTURER.
- D. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS.
- E. INSTALL RECEPTACLES WITH GROUNDING POLE ON BOTTOM.
- F. INSTALL DECORATIVE PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS.
- G. CONNECT WIRING DEVICES BY WRAPPING SLD CONDUCTOR AROUND SCREW TERMINAL WHEN STRANDED CONDUCTORS ARE USED IN LIEU OF SOLID, USE CRIMP ON FORK TERMINALS FOR DEVICE TERMINATIONS. DO NOT PLACE BARE STRANDED CONDUCTORS DIRECTLY UNDER DEVICE SCREWS.
- H. USE JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.
- I. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE MOUNTED OUTLETS.

3.5 INTERFACE WITH OTHER PRODUCTS

- A. COORDINATE LOCATIONS OF OUTLET BOXES TO OBTAIN MOUNTING HEIGHTS AS SPECIFIED ON DRAWINGS AND AS INDICATED ON DRAWINGS.
- B. INSTALL WALL SWITCH OR DIMMER 48 INCHES ABOVE FINISHED FLOOR.
- C. INSTALL CONVENIENCE RECEPTACLE 18 INCHES ABOVE FINISHED FLOOR.
- D. INSTALL CONVENIENCE RECEPTACLE 6 INCHES ABOVE BACK SPLASH OF COUNTER.
- 3.6 FIELD QUALITY CONTROL
- A. INSPECT EACH WIRING DEVICE FOR DEFECTS.
- B. OPERATE EACH WALL SWITCH WITH CIRCUIT ENERGIZED AND VERIFY PROPER OPERATION.
- C. VERIFY EACH RECEPTACLE DEVICE IS ENERGIZED.
- D. TEST EACH RECEPTACLE DEVICE FOR PROPER POLARITY.
- E. TEST EACH GFCI RECEPTACLE DEVICE FOR PROPER OPERATION.
- 3.7 ADJUSTING
- A. ADJUST DEVICES AND WALL PLATES TO BE FLUSH AND LEVEL.
- 3.8 CLEANING
- A. CLEAN EXPOSED SURFACES TO REMOVE SPLATTERS AND RESTORE FINISH.

1. GENERAL

1.01 SUMMARY

- A. SECTION INCLUDES:
- a. DISTRIBUTION AND BRANCH CIRCUIT PANELBOARDS.
- b. ELECTRONIC GRADE BRANCH CIRCUIT PANELBOARDS.
- c. LOAD CENTERS.

1.02 REFERENCE STANDARDS

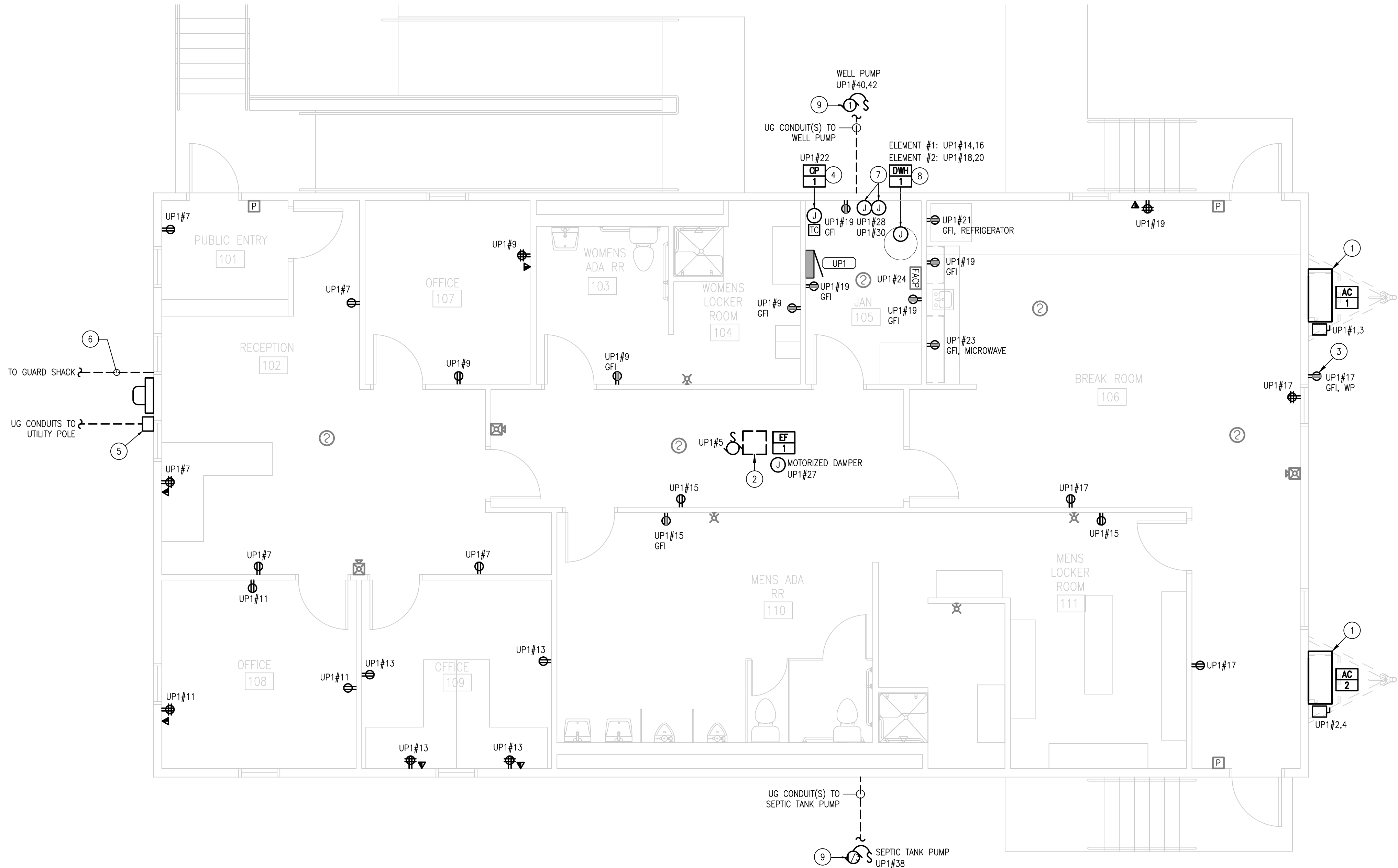
- A. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS:
- a. IEEE C82.41 - RECOMMENDED PRACTICE ON SURGE VOLTAGES IN LOW-VOLTAGE AC POWER CIRCUITS.
- B. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION:
- a. NEMA FU 1 - LOW VOLTAGE CARTRIDGE FUSES.
- b. NEMA ICS 2 - INDUSTRIAL CONTROL AND SYSTEMS: CONTROLLERS, CONTACTORS, AND OVERLOAD RELAYS, RATED NOT MORE THAN 2000 VOLTS AC OR 750 VOLTS DC.
- c. NEMA ICS 5 - INDUSTRIAL CONTROL AND SYSTEMS: CONTROL CIRCUIT AND PILOT DEVICES.
- d. NEMA KS 1 - ENCLOSED AND MISCELLANEOUS DISTRIBUTION EQUIPMENT SWITCHES (600 VOLTS MAXIMUM).
- e. NEMA PB 1 - PANELBOARDS.
- f. NEMA PB 1.1 - GENERAL INSTRUCTIONS FOR PROPER INSTALLATION, OPERATION, AND MAINTENANCE OF PANELBOARDS RATED 600 VOLTS OR LESS.
- C. INTERNATIONAL ELECTRICAL TESTING ASSOCIATION:
- a. NETA ATS - ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND SYSTEMS.
- D. NATIONAL FIRE PROTECTION ASSOCIATION:
- a. NEMA 70 - NATIONAL ELECTRICAL CODE.
- E. UNDERWRITERS LABORATORIES, INC.:
- a. UL 50 - CABINETS AND BOXES.
- b. UL 67 - SAFETY FOR PANELBOARDS.
- c. UL 489 - MOLDED-CASE CIRCUIT BREAKERS, MOLDED-CASE SWITCHES, AND CIRCUIT-BREAKER ENCLOSURES.
- d. UL 1283 - ELECTROMAGNETIC INTERFERENCE FILTERS.
- e. UL 1449 - TRANSIENT VOLTAGE SURGE SUPPRESSORS.
- f. UL 1699 - ARC-FAULT CIRCUIT INTERRUPTERS.

1.03 SUBMITTALS

- A. PRODUCT DATA: SUBMIT CATALOG DATA SHOWING SPECIFIED FEATURES OF STANDARD PRODUCTS.
- B. SHOP DRAWINGS: INDICATE OUTLINE AND SUPPORT POINT DIMENSIONS, VOLTAGE, MAIN BUS AMPACITY, INTEGRATED SHORT CIRCUIT AMPERE RATING, CIRCUIT BREAKER

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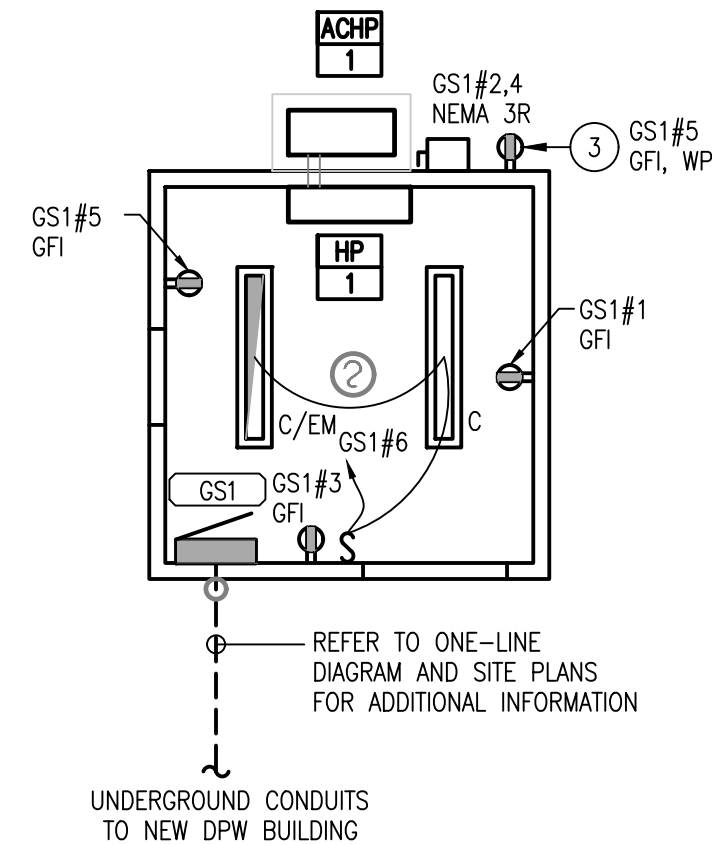
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ELECTRICAL KEY NOTES

SYMBOL = (#)

- EXTERIOR WALL MOUNTED AC UNIT. EC SHALL COORDINATE FINAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
- EXHAUST FAN ON ROOF ABOVE. ELECTRICAL CONTRACTOR SHALL COORDINATE FAN OPERATION INTERLOCKED WITH AC UNITS, MOTORIZED DAMPER, AND ALL PERTINENT CONTROLS AND WIRING.
- FURNISH AND INSTALL WEATHERPROOF RECEPTACLE WITH IN-USE COVER.
- CIRCULATION PUMP. ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO COMMENCEMENT OF WORK INCLUDING BUT NOT LIMITED TO TIMELOCK CONTROLS AND WIRING. MAKE ALL FINAL CONNECTIONS AS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRIC UTILITY COMPANY (ATLANTIC CITY ELECTRIC) TO PROVIDE NEW ELECTRIC SERVICE TO BUILDING. CONFIRM NEMA 3R MAIN ENCLOSED CIRCUIT BREAKER DISCONNECT, 320A IN-LINE METER, AND OTHER REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK. FURNISH AND INSTALL EQUIPMENT IN COMPLIANCE WITH LATEST APPLICABLE NEC REQUIREMENTS.
- UNDERGROUND CONDUIT(S) TO PANEL (GS1) IN GUARD SHACK. REFER TO SITE PLAN AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL HEAT TRACE AT ALL DOMESTIC AND SANITARY PIPING BELOW FLOOR IN CRAWL SPACE PER MANUFACTURER'S RECOMMENDATION. COORDINATE FINAL REQUIREMENTS AND LOCATIONS WITH PLUMBING CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL UTILIZE GFEP (GROUND FAULT EQUIPMENT PROTECTION) CIRCUIT BREAKERS AS REQUIRED.
- HOT WATER HEATER. FURNISH AND INSTALL JUNCTION BOX WITH HEAVY DUTY TERMINAL BLOCK PER MANUFACTURER'S RECOMMENDATION. COORDINATE FINAL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
- COORDINATE FINAL REQUIREMENTS AND EXACT LOCATIONS OF WELL PUMP AND SEPTIC PUMP WITH SITE PLANS AND ALL APPLICABLE TRADES. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION. FURNISH AND INSTALL NEMA 3R DISCONNECT SWITCH AS REQUIRED.



1 ELECTRICAL POWER PLAN

1/4" = 1'-0"

2 ELECTRICAL POWER PLAN - GUARD SHACK

1/4" = 1'-0"

JOB NO: LEHT-01952											
RATING: 240/120V, 3W, 1PH, 350A											
CKT. NO.	CIRCUIT DESCRIPTION	POLE	LOAD KVA	BKR.	UP1 (NEW)		BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	LOCATION: CORRIDOR
1	AC-1	2	5.0	60	2#6 & 1#10GND IN 1"	A	2#6 & 1#10GND IN 1"	60	5.0	2	AC-2
3			5.0			10.0			5.0		
5	EF-1	1	0.5	20	2#12 & 1#12GND IN 3/4"	0.8	2#12 & 1#12GND IN 3/4"	20	0.3	1	LTG - EXIT AND EMERGENCY
7	RCPT - RECEPTION 102	1	1.1	20	2#12 & 1#12GND IN 3/4"	2.0	2#12 & 1#12GND IN 3/4"	20	1.5	1	LTG - MEN'S LOCKER AND RECEPTION
9	RCPT - OFFICE 107 RR 103	1	0.9	20	2#12 & 1#12GND IN 3/4"	2.0	2#12 & 1#12GND IN 3/4"	20	1.1	1	LTG - WOMEN'S LOCKER AND BREAK RM
11	RCPT - OFFICE 108	1	0.7	20	2#12 & 1#12GND IN 3/4"	2.0	2#12 & 1#12GND IN 3/4"	20	0.4	1	LIGHTING - EXTERIOR
13	RCPT - OFFICE 109	1	1.1	20	2#12 & 1#12GND IN 3/4"	7.1	2#12 & 1#12GND IN 3/4"	20	0.4	1	LIGHTING - EXTERIOR
15	RCPT - MEN'S LOCKER RM	1	0.6	20	2#12 & 1#12GND IN 3/4"	6.9	2#12 & 1#12GND IN 3/4"	20	0.0	1	GFCI: DWH-1 (ELEMENT #1)
17	RCPT - BREAK RM 106, EXTERIOR	1	0.9	20	2#12 & 1#12GND IN 3/4"	6.9	2#12 & 1#12GND IN 3/4"	20	6.0	2	GFCI: DWH-1 (ELEMENT #2)
19	RCPT - BREAK RM 106, JAN 105	1	0.5	20	2#12 & 1#12GND IN 3/4"	6.5	2#12 & 1#12GND IN 3/4"	20	6.0	2	GFCI: DWH-1 (ELEMENT #2)
21	RCPT - REFRIGERATOR	1	1.2	20	2#12 & 1#12GND IN 3/4"	1.5	2#12 & 1#12GND IN 3/4"	20	0.3	1	GFCI: CP-1
23	RCPT - MICROWAVE 106	1	1.0	20	2#12 & 1#12GND IN 3/4"	1.6	2#12 & 1#12GND IN 3/4"	20	0.6	1	GFCI: FIRE ALARM CONTROL PANEL
25	HVAC CONTROL PANEL	1	0.5	20	2#12 & 1#12GND IN 3/4"	0.5	2#12 & 1#12GND IN 3/4"	20	0.0	1	SPACE
27	MOTORIZED DAMPER FOR EF-1	1	0.2	20	2#12 & 1#12GND IN 3/4"	2.1	2#12 & 1#12GND IN 3/4"	20	1.9	1	GFEP: HEAT TRACE
29	SPARE	1		20		1.9	2#12 & 1#12GND IN 3/4"	20	1.9	1	GFEP: HEAT TRACE
31	SPARE	1		20		0.0	2#12 & 1#12GND IN 3/4"	20	0.0	1	SPACE
33	SPARE	1		20		0.7	2#12 & 1#12GND IN 3/4"	20	0.7	1	IFCI: SEPTIC SYSTEM PUMP (1/3 HP)
35	LOADCENTER (GS1) - GUARD SHACK	2	2.2	50	3#6 & 1#10GND IN 1"	2.2	2#12 & 1#12GND IN 3/4"	20	0.6	2	LOCKABLE OFF CB: WELL PUMP (1HP)
41			1.6			33.3			0.6		
					TOTAL (PHASE):						
					33.3						

PANEL TYPE: NEMA 1
MOUNTING: FLUSH
MAIN CIRCUIT BREAKER: 350A
INTERRUPTING RATING: 22KA SYM.
FED FROM: MAIN DISCONNECT SWITCH

NOTES

- ALL BUSING TO BE COPPER
- BOLT ON BREAKERS ONLY
- CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING AT THE UTILITY TRANSFORMER AND NOTIFY THE ENGINEER PRIOR TO PURCHASING ANY EQUIPMENT.
- ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE
- FURNISH AND INSTALL GFCI AND GFEP CIRCUIT BREAKERS AS REQUIRED.

TOTAL CONNECTED LOAD: 67.0 KVA
279.0 AMPS

JOB NO: LEHT-01952					GS1 (NEW)							LOCATION: GUARD SHACK				
RATING: 240/120V, 3W, 1PH, 50A					POLE	LOAD KVA	BKR.	BRANCH CIRCUIT	A	B	BRANCH CIRCUIT	BKR.	LOAD KVA	POLE	CIRCUIT DESCRIPTION	CKT. NO.
1	RCPT - GFI 01				1	0.2	20	2#12 & 1#12GND IN 3/4"	1.6		2#12 & 1#12GND IN 3/4"	20	1.4	2	HP-1 & ACHP-1	2
3	RCPT - GFI 02				1	0.2	20	2#12 & 1#12GND IN 3/4"	1.6		2#12 & 1#12GND IN 3/4"	20	1.4			4
5	RCPT - GFI 03				1	0.4	20	2#12 & 1#12GND IN 3/4"	0.6		2#12 & 1#12GND IN 3/4"	20	0.2	1	LIGHTING - GENERAL	6
7	SPARE				1	0.0	20		0.0			20	1		SPARE	8
9	SPARE				1	0.0	20		0.0			20	1		SPARE	10
11	SPARE				1	0.0	20		0.0			20	1		SPARE	12
					TOTAL (PHASE):											
					2.2											

TOTAL CONNECTED LOAD: 3.8 KVA
15.8 AMPS

PANEL TYPE: NEMA 1
MOUNTING: FLUSH
MAIN CIRCUIT BREAKER: 50A
INTERRUPTING RATING: 22KA SYM.
FED FROM: PANEL UP1

NOTES

- ALL BUSING TO BE COPPER
- BOLT ON BREAKERS ONLY
- CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SHORT CIRCUIT RATING AT THE UTILITY TRANSFORMER AND NOTIFY THE ENGINEER PRIOR TO PURCHASING ANY EQUIPMENT.
- ALL WIRE SIZES ARE BASED ON 75 DEGREE WIRE

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

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STATE OF NJ LICENSE No. 24GE05120300

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DEPARTMENT OF PUBLIC WORKS FACILITY
IMPROVEMENTS
LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

ELECTRICAL POWER PLAN

YOUR GOALS. OUR MISSION.
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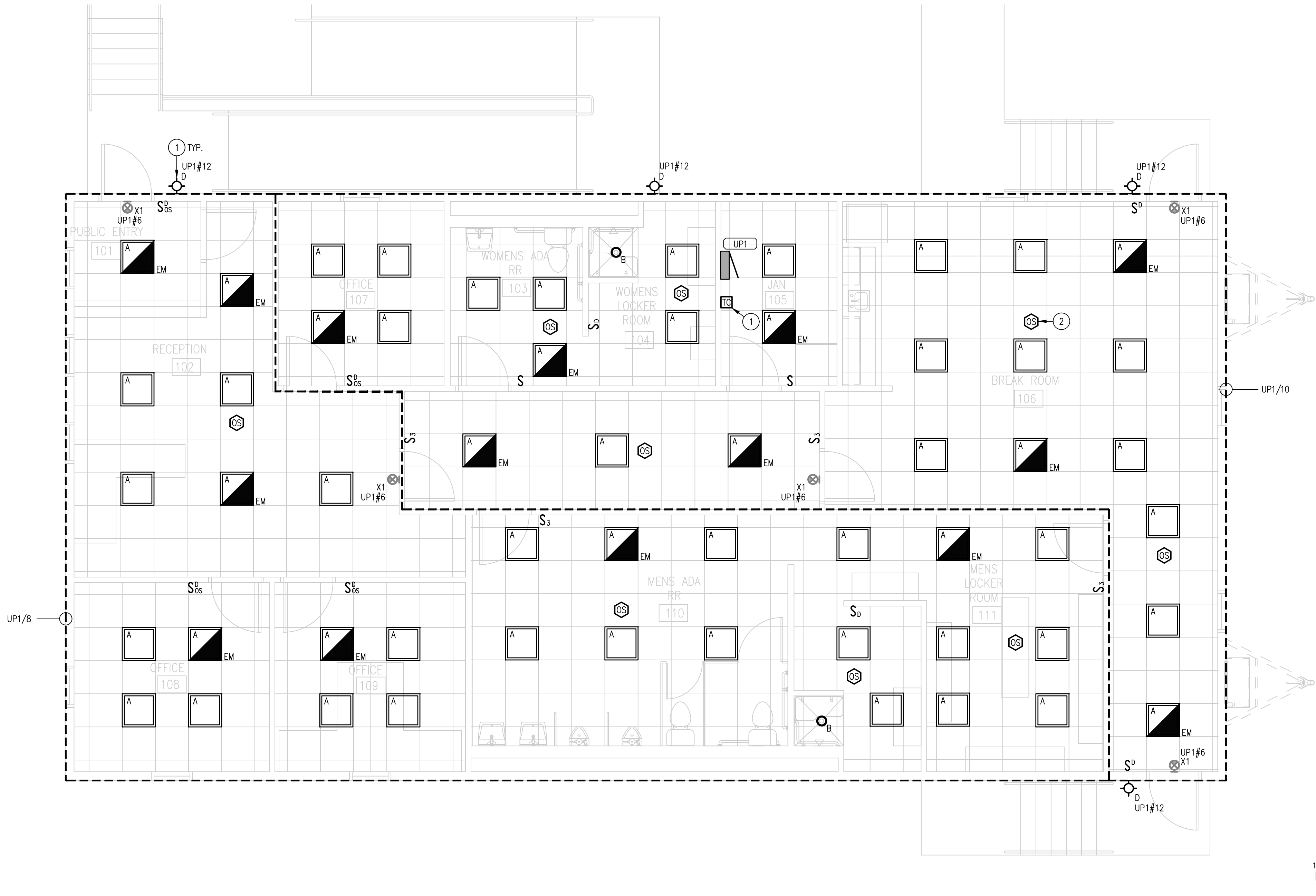
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ELECTRICAL POWER PLAN KEY NOTES

SYMBOL = (#)

1. EXTERIOR LIGHTING SHALL BE CONTROLLED VIA TIMECLOCK. COORDINATE FINAL SCHEDULE WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING CONTROL COMPONENTS AS SHOWN ON PLANS TO COMPLY WITH MINIMUM ASHRAE REQUIREMENTS. COORDINATE EXACT LOCATION OF ALL OCCUPANCY SENSORS, SWITCHES, TIMECLOCKS, ROOM CONTROLLERS, DIMMING MODULES AND APPURTENANCES AS REQUIRED. LIGHTING CONTROL SYSTEM AND INTERCONNECTING CONTROL WIRING SHALL BE SUBMITTED DURING THE SHOP DRAWING REVIEW FOR ENGINEER'S APPROVAL .
3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL EMERGENCY LIGHTING FIXTURES WITH BATTERY PACKS FOR ALL EMERGENCY LIGHTING FIXTURES AS SHOWN ON PLANS. BATTERY PACKS SHALL BE SIZED TO PROVIDE A MINIMUM DURATION OF 90 MINUTES. EMERGENCY LIGHTING CONTROL DEVICES INTERCONNECTING AND CONTROL WIRING SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL DURING THE SHOP DRAWING REVIEW.

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STATE OF NJ LICENSE No. 246E05120300

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ELECTRICAL LIGHTING PLAN

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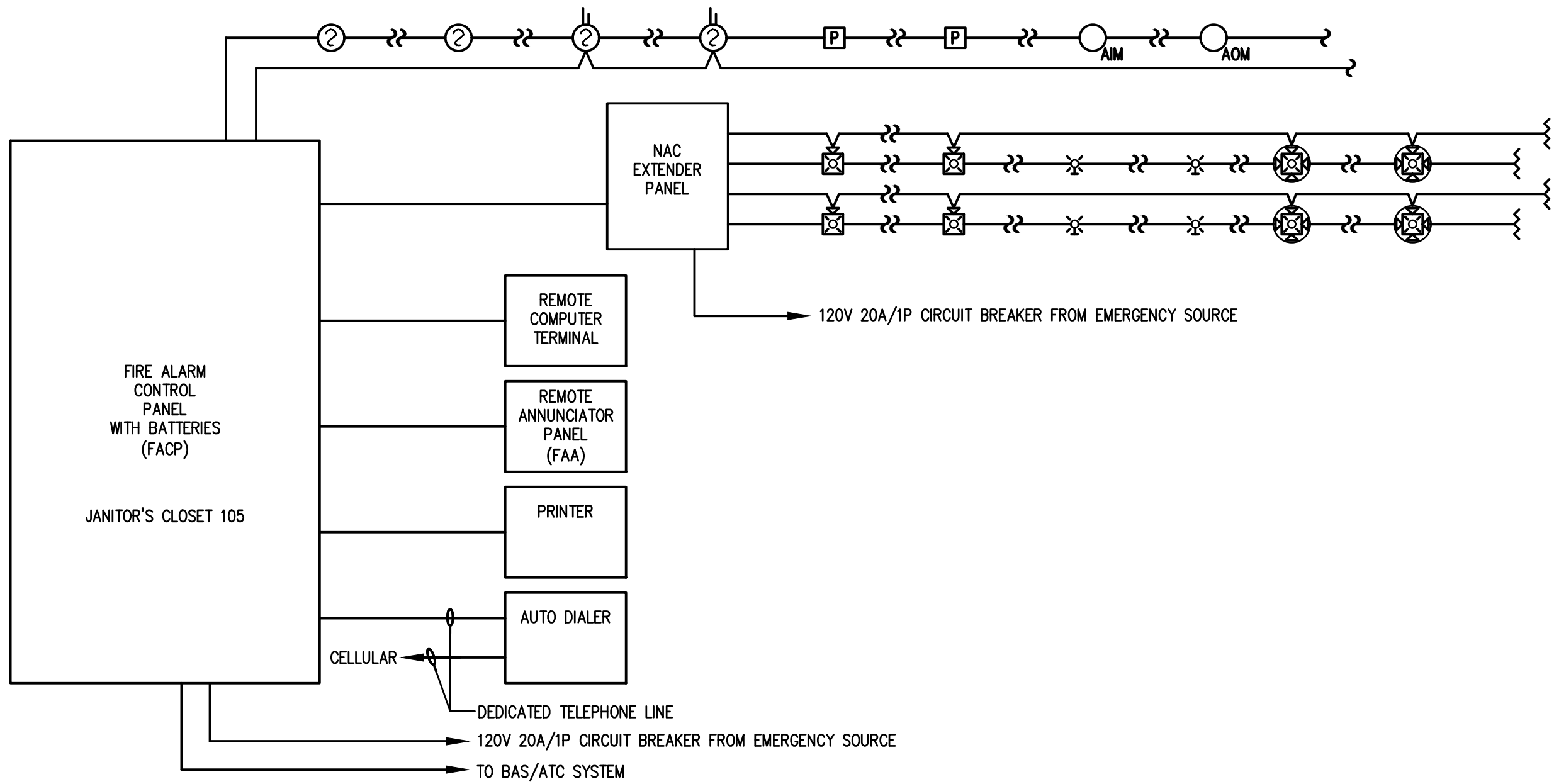
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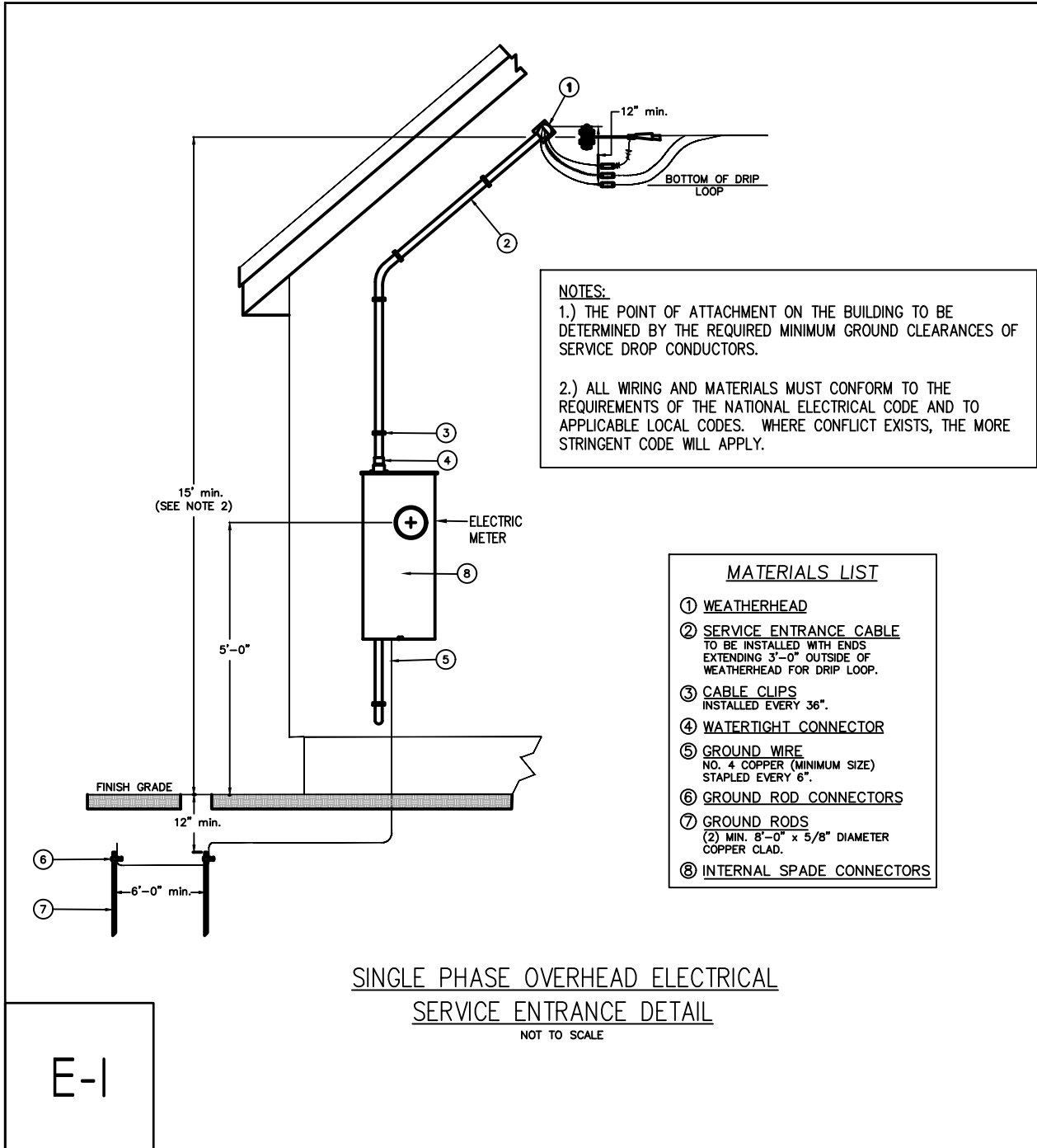


FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE

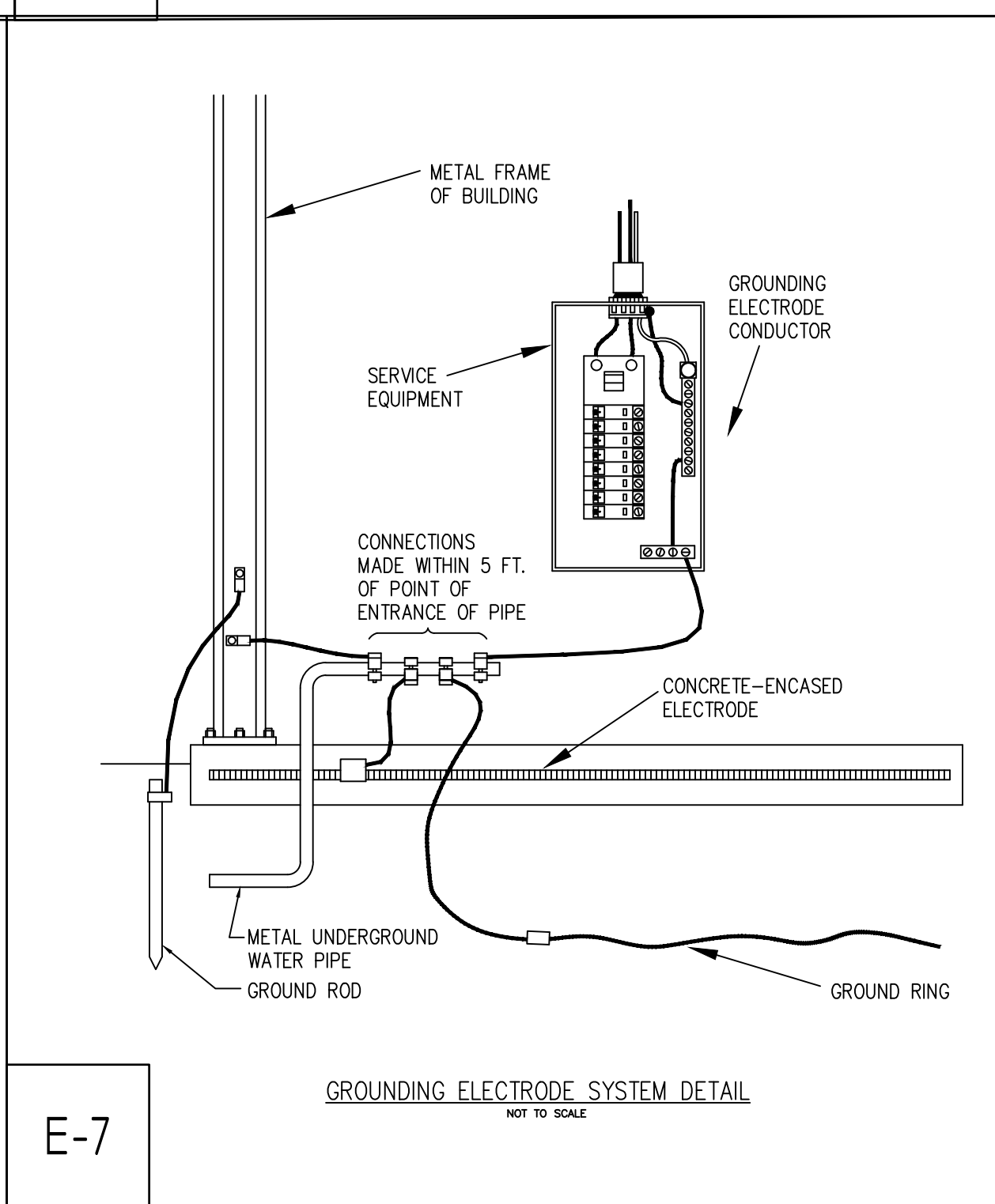
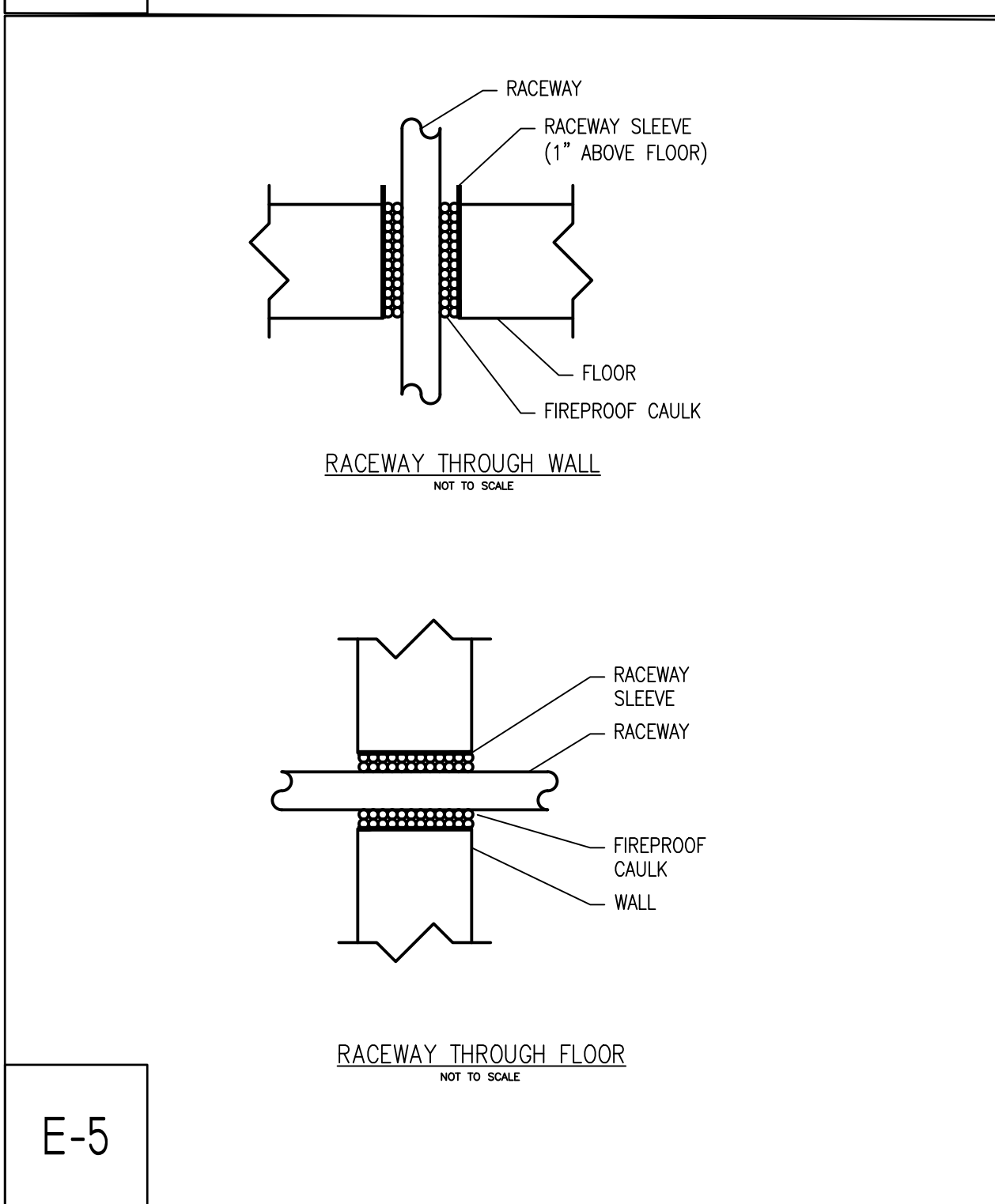
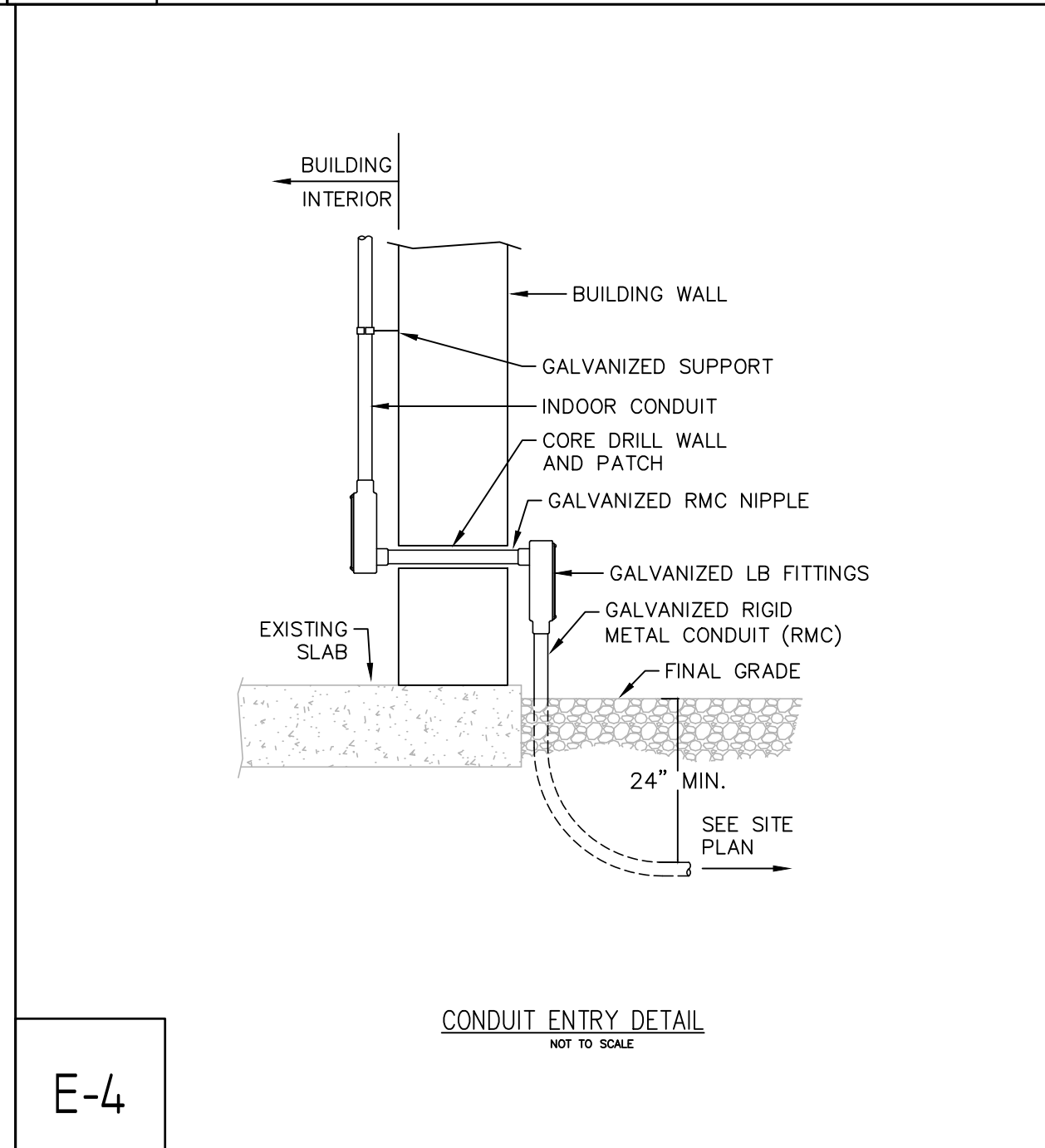
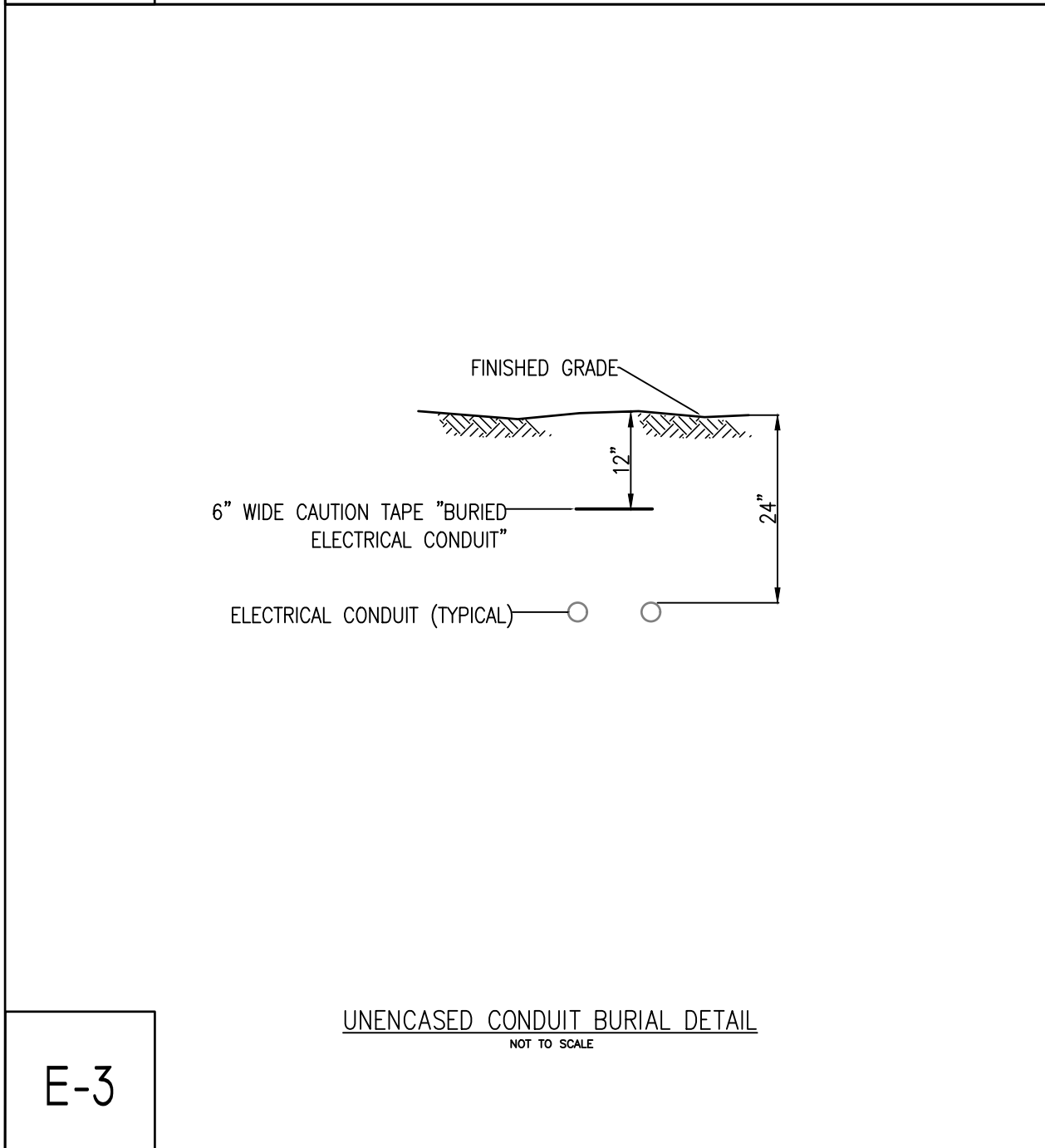
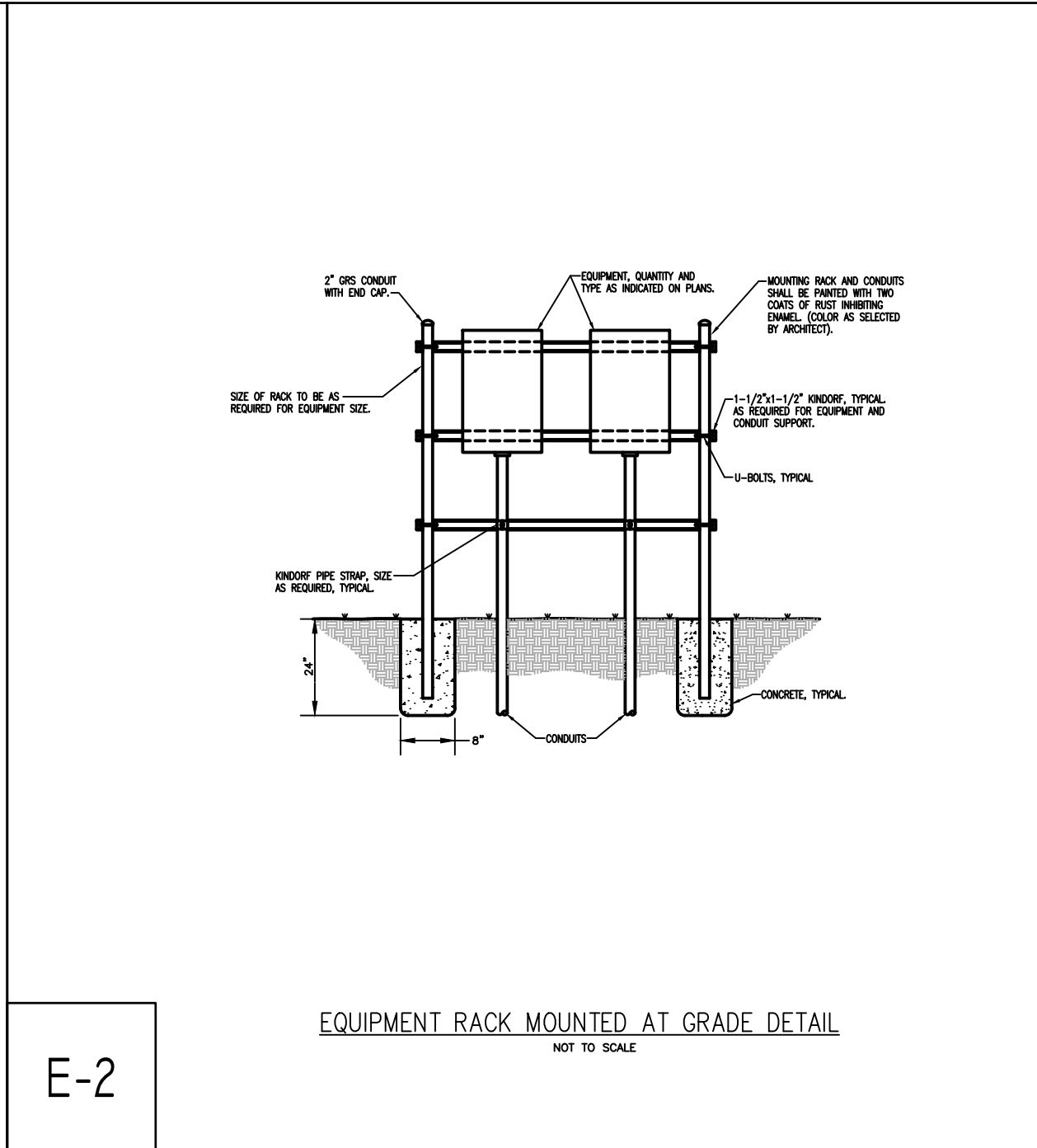
GENERAL FIRE ALARM SYSTEM NOTES:

1. FIRE ALARM RISER DIAGRAM IS DIAGRAMMATIC AND DOES NOT SHOW QUANTITIES OF CIRCUITS, COMPONENTS, AND DEVICES REQUIRED.
2. PROVIDE NAC EXTENDER PANELS AS REQUIRED. PROVIDE ASSOCIATED 120-VOLT POWER FEEDS FROM LOCAL ELECTRICAL BRANCH CIRCUIT PANELBOARD (STANDBY POWER IF AVAILABLE) TO EACH NAC EXTENDER PANEL PROVIDED.
3. WIRE SIZES, TYPES AND QUANTITIES SHALL BE IN ACCORDANCE WITH VOLTAGE DROP CALCULATIONS (DEPENDENT ON SELECTED DEVICE RATINGS AND SETTINGS) AND MANUFACTURER'S RECOMMENDATIONS.
4. EXACT CONDUIT AND WIRING REQUIREMENTS AND ROUTING SHALL BE DETERMINED IN THE FIELD.
5. FIRE ALARM SYSTEM DEVICES AND INSTALLATION SHALL COMPLY WITH GOVERNING EDITIONS OF NFPA 72 AND INTERNATIONAL BUILDING CODE.
6. PROVIDE LOCKABLE CIRCUIT BREAKER FOR 120-VOLT POWER CIRCUITS SERVING FIRE ALARM SYSTEM COMPONENTS. CLEARLY IDENTIFY EACH CIRCUIT BREAKER SERVING FIRE ALARM SYSTEM COMPONENTS AS SUCH.
7. PROVIDE LABELS AT EACH FIRE ALARM DEVICE INDICATING DEVICE NUMBER AND ADDRESS.
8. CONCEAL FIRE ALARM WIRING, CONDUIT, AND OUTLET BOXES IN FINISHED AREAS, UNLESS NOTED OTHERWISE. PROVIDE BOX SKIRTS FOR FIRE ALARM DEVICE BOXES INDICATED AS SURFACE-MOUNTED.
9. FIRE ALARM WIRING IN EXPOSED LOCATIONS (MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.) SHALL BE RUN IN CONDUIT.
10. FIRE ALARM DEVICES LOCATED OUTSIDE SHALL BE WEATHERPROOF.
11. PROVIDE ISOLATION MODULES TO PROTECT FIRE ALARM CIRCUITS. AT A MINIMUM, PROVIDE ONE ISOLATION MODULE PER 25 ADDRESSABLE DEVICES, AND AT EACH TAP LOCATION ON CLASS B CIRCUITS.
12. SUBMIT A LETTER ATTESTING TO 100% ACCEPTANCE TEST OF FIRE ALARM SYSTEM PRIOR TO REQUESTING LOCAL FIRE DEPARTMENT INSPECTION AND ACCEPTANCE TESTING.

SYSTEM INPUTS	SYSTEM OUTPUTS														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
COMMON AREA DETECTORS															
ANY AREA SMOKE DETECTOR	•	•					•	•	•			•	•	•	•
ANY AREA HEAT DETECTOR	•	•					•	•	•			•	•	•	•
ANY RESIDENT SMOKE DETECTOR										•					
DUCT SMOKE DETECTORS															
ANY DUCT SMOKE DETECTOR	•	•					•	•	•			•		•	•
MANUAL PULL STATIONS															
ANY MANUAL PULL STATION	•	•					•	•	•			•	•	•	•
SUB SYSTEM ALARM															
ANY SUBSYSTEM ALARM	•	•					•	•	•			•		•	•
SUB SYSTEM TROUBLE															
ANY SUBSYSTEM TROUBLE			•	•						•					
TROUBLE POINTS															
FIRE ALARM AC POWER FAILURE						•	•					•			
FIRE ALARM SYSTEM LOW BATTERY						•	•					•			
OPEN CIRCUIT						•	•					•			
GROUND FAULT						•	•					•			
NOTIFICATION APPLIANCE CIRCUIT SHORT						•	•					•			



SINGLE PHASE OVERHEAD ELECTRICAL
SERVICE ENTRANCE DETAIL
NOT TO SCALE



CHD

BY

REVISIONS

DATE

NO.

MARY ELAINE DASTI, PE
SENIOR VICE PRESIDENT, MARKET LEADER

LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE No. 24GE05120300

LITTLE EGG HARBOR TOWNSHIP
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ELECTRICAL DETAILS

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PLUMBING ABBREVIATIONS

PLUMBING PIPING SYMBOLS

PLUMBING GENERAL SYMBOLS

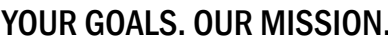
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PLUMBING SPECIFICATIONS (CONT'D)

3. EXECUTION
- A. INSTALL DOMESTIC WATER PIPING ACCORDING TO APPROVED SHOP DRAWINGS AND COORDINATION DRAWINGS.
- B. COMPLY WITH MANUFACTURER'S PRODUCT DATA, INCLUDING PRODUCT TECHNICAL BULLETINS, INSTALLATION INSTRUCTIONS AND DESIGN DRAWINGS, INCLUDING THE FOLLOWING.
- o. INSTALL PEX PIPING SYSTEM IN COMPLIANCE WITH THE UPONOR PLUMBING DESIGN ASSISTANCE MANUAL (PDAM), CURRENT EDITION, AND THE UPONOR PIPING SYSTEMS INSTALLATION GUIDE, CURRENT EDITION.
- b. PEX SHALL NOT BE INSTALLED IN AREAS WITHIN FIVE FEET OF A UV LIGHT SOURCE, SUCH AS LED AND FLUORESCENT LIGHT FIXTURES OR OTHER UV GENERATING DEVICES.
- c. WHITE PEX SHALL NOT BE INSTALLED OUTDOORS WHERE IT IS EXPOSED TO DIRECT SUNLIGHT LIGHT FOR MORE THAN ONE MONTH; RED OR BLUE PEX SHALL NOT BE INSTALLED OUTDOORS WHERE IT IS EXPOSED TO DIRECT SUNLIGHT FOR MORE THAN SIX MONTHS.
- d. PEX PIPING SHALL BE INSTALLED PER ASTM E84 REQUIREMENTS FOR PLENUM APPLICATIONS.
- e. INSTALL PEX-A PIPE SUPPORT AND PROVIDE ALL REQUIRED HANGERS AND SUPPORTING STRAPPING AS REQUIRED BY MANUFACTURER TO PROVIDE A CODE COMPLIANT INSTALLATION.
- f. INSTALL PEX PIPING IN STRAIGHT RUNS FREE OF SAGS AND KINKS AND PROVIDE BEND SUPPORTS AT ALL 1/2 INCH AND 3/4 INCH DROPS.
- g. ALL PEX PIPING PENETRATIONS THROUGH WALL PLATES SHALL BE PROTECTED OR SHIELDED AS REQUIRED TO PREVENT DAMAGE TO PIPING.
- h. PEX TUBING PASSING THROUGH METAL STUDS SHALL USE GROMMETS OR SLEEVES AT THE PENETRATION.
- i. INSTALL PEX PIPING FROM THE MULTIPORT TEE OR MANIFOLD TO EACH FIXTURE AS A HOME RUN.
- j. INSTALL PEX-A PIPE SUPPORT, FIXED ANCHOR POINTS AND HANGERS IN COMPLIANCE WITH UPONOR PLUMBING DESIGN ASSISTANCE MANUAL (PDAM) TO MINIMIZE EXPANSION AND CONTRACTION.
- k. INSTALL PEX PIPING AT EACH FIXTURE WITH OUT OF THE WALL SUPPORT BRACKET TO SECURE PIPING AND PREVENT EXCESS MOVEMENT WHEN WATER STOPS OR SHUT VALVES ARE OPERATED.
- l. INSTALL ALL PEX MANIFOLDS CENTERED IN ACCESS PANELS TO PERMIT SERVING.

221300.DRAINAGE, WASTE AND VENT

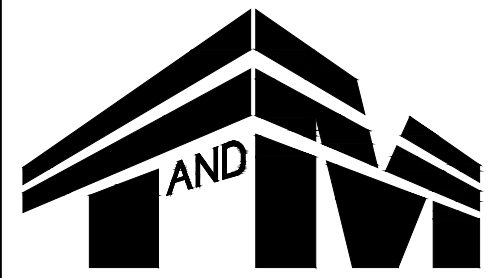
1. GENERAL
- A. THIS SECTION INCLUDES SANITARY SEWER AND VENT SYSTEMS.
- B. EXISTING SANITARY PIPING RECEIVING NEW CONNECTIONS SHALL BE SNAKED AND JET-FLUSHED PRIOR TO NEW CONNECTIONS BEING MADE TO ENSURE UNOBSTRUCTED FLOW.
- C. PRIOR TO INSTALLING ANY NEW SANITARY PIPING, VERIFY INVERT ELEVATIONS ON EXISTING PIPING RECEIVING NEW CONNECTIONS TO ENSURE ADEQUATE ELEVATION OF EXISTING PIPING.
- D. VERIFY SIZE AND SUITABLE CONDITION OF EXISTING PIPING RECEIVING NEW CONNECTIONS.
- E. FOR ALL BELOW GRADE SEWER PIPING PROVIDE OFFSETS TO INDICATED ROUTING WHERE REQUIRED TO COORDINATE WITH STRUCTURAL FOOTINGS AND FOUNDATIONS.
- F. CAST IRON SOIL PIPE AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) STANDARD 301, ASTM A 888 OR ASTM A 74, LATEST EDITIONS.
- G. PVC AND OTHER COMBUSTIBLE PIPING PRODUCTS MAY NOT BE INSTALLED IN ANY CEILING SPACES WHICH FUNCTION AS A RETURN AIR PLENUM.
- H. AT ALL INDIRECT WATER DRAINS, MAINTAIN AIR GAP OR AIR BREAK AS REQUIRED BY CODE.
2. PRODUCTS
- A. CAST IRON SOIL PIPE AND FITTINGS:
- o. HUB-AND-SPIGOT CAST IRON SOIL PIPE AND FITTINGS: ASTM A 74, SERVICE CLASS WITH ASTM C 564 RUBBER COMPRESSION GASKET.
- b. HUBLESS CAST IRON SOIL PIPE AND FITTINGS: ASTM A 888 OR CISPI 301.
- c. CISPI - HUBLESS COUPLINGS: ASTM C 1277 OR CISPI 310, STAINLESS-STEEL SHIELD, BANDS AND TIGHTENING DEVICES WITH ASTM C 564 RUBBER SLEEVE WITH INTEGRAL CENTER PIPE STOP, NSF CERTIFIED.
- d. HEAVY-DUTY HUBLESS COUPLINGS: ASTM C 1277 AND ASTM C 1540, STAINLESS-STEEL SHIELD, BANDS AND TIGHTENING DEVICES WITH ASTM C 564 RUBBER SLEEVE WITH INTEGRAL CENTER PIPE STOP.
- B. ACCEPTABLE MANUFACTURERS OF CAST IRON PIPE AND FITTINGS ARE CHARLOTTE PIPE AND FOUNDRY, TYLER PIPE AND AMERICAN BRASS AND IRON.
- C. ACCEPTABLE MANUFACTURERS OF HUBLESS COUPLINGS ARE TYLER COUPLING, MISSION RUBBER AND IDEAL COUPLING.
- D. PVC PIPE: ASTM D1785, SCHEDULE [40] [80] [120], POLYVINYL CHLORIDE (PVC) MATERIAL, BELL AND SPIGOT STYLE SOLVENT SEALED JOINT ENDS.
- o. FITTINGS: [ASTM D2466, SCHEDULE 40, PVC] [ASTM D2467, SCHEDULE 80, PVC] [ASTM D2464 PVC, THREADED]
- b. JOINTS: ASTM D2855, SOLVENT WELD WITH ASTM D2584 SOLVENT CEMENT.
- c. PVC PIPE IN PLENUM SPACES TO BE WRAPPED WITH PLENUMWRAP TO MEET THE FLAME AND SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT INDEX OF NOT MORE THAN 50.
3. EXECUTION
- A. INSTALL CAST IRON SOIL PIPING IN ACCORDANCE WITH CISPI "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK" CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."
- B. INSTALL HEAVY-DUTY HUBLESS COUPLINGS IN STORM SEWER AND SANITARY SEWER HUBLESS PIPING.
- C. INSTALL CISPI HUBLESS COUPLINGS FOR VENT PIPING.
- D. SANITARY PIPING SHALL BE PITCHED IN THE DIRECTION OF FLOW WITH A SLOPE OF 1/4"PER FOOT OF RUN FOR ALL PIPE BELOW 3" AND 1/8" PER FOOT OF RUN FOR ALL PIPE 3"AND LARGER.
- E. VENT PIPING SHALL BE PITCHED TO DRAIN TO CONNECTED SANITARY PIPING.
- F. UNLESS INDICATED OTHERWISE, STORM WATER PIPING SHALL BE PITCHED IN THE DIRECTION OF FLOW WITH A SLOPE OF 1/8"PER FOOT OF RUN FOR ALL PIPE SIZES.
- G. EXTEND CLEANOUTS TO FLOORS AND GRADES FLUSH WITH SURROUNDING SURFACES.
- H. PROTECT DRAINS THROUGHOUT CONSTRUCTION TO PREVENT DAMAGE AND CLOGGING WITH DIRT AND DEBRIS.
- I. INSTALL HANGERS FOR CAST IRON SOIL PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
- o. NPS 1-1/2 AND NPS 2: 60 INCHES WITH 3/8"ROD.
- b. NPS 3: 60 INCHES WITH 1/2"ROD.
- c. NPS 4 AND NPS 5: 60 INCHES WITH 5/8"ROD.
- d. NPS 6 AND NPS 8: 60 INCHES WITH 3/4"ROD.
- e. NPS 10 TO NPS 12: 60 INCHES WITH 7/8"ROD.
- J. INSTALL SUPPORTS FOR VERTICAL CAST IRON SOIL PIPING EVERY 15 FEET.

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DEPARTMENT OF PUBLIC WORKS FACILITY
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LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

PLUMBING SPECIFICATION SHEET 2



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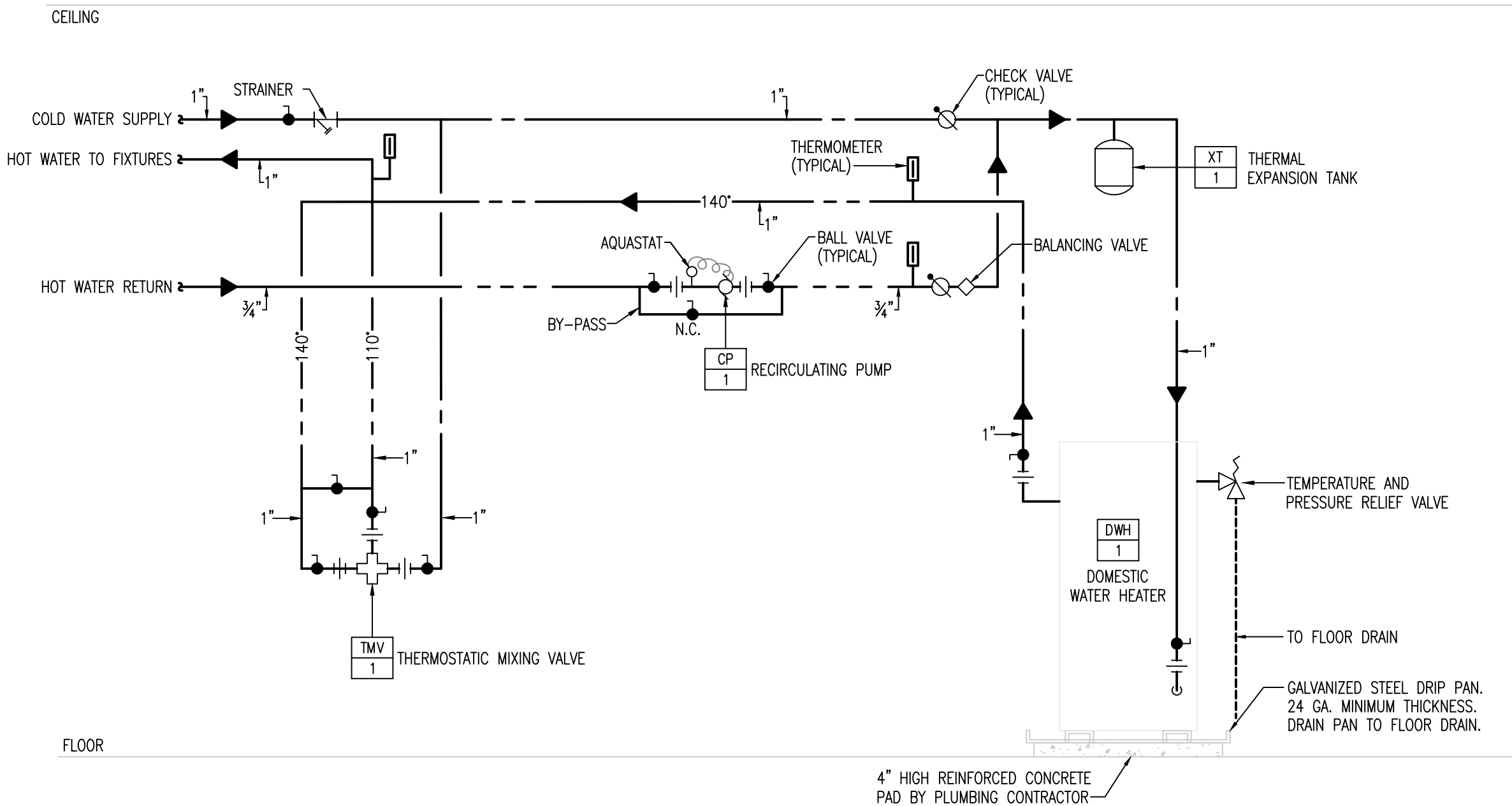
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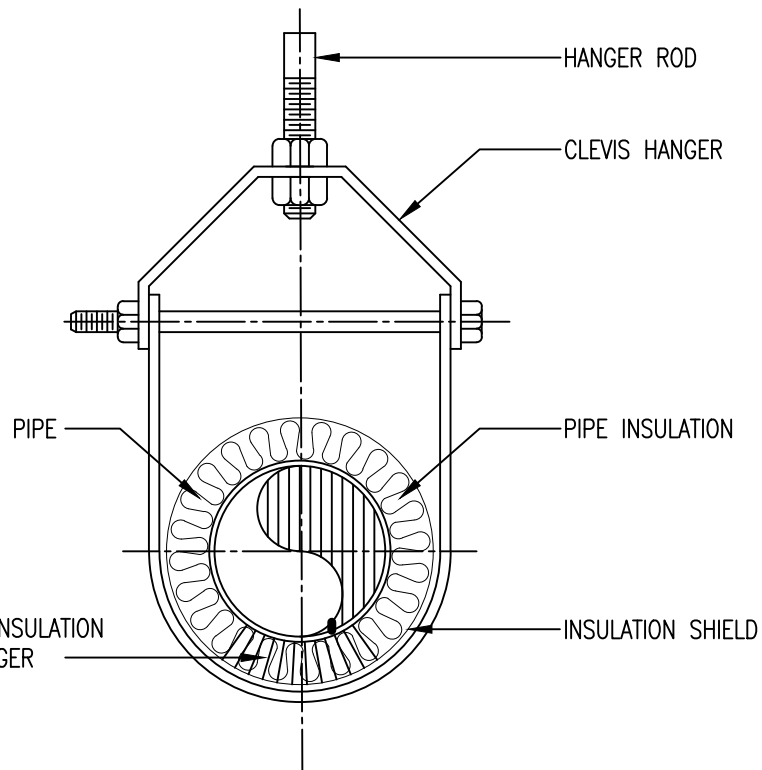
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PLUMBING FIXTURE SCHEDULE

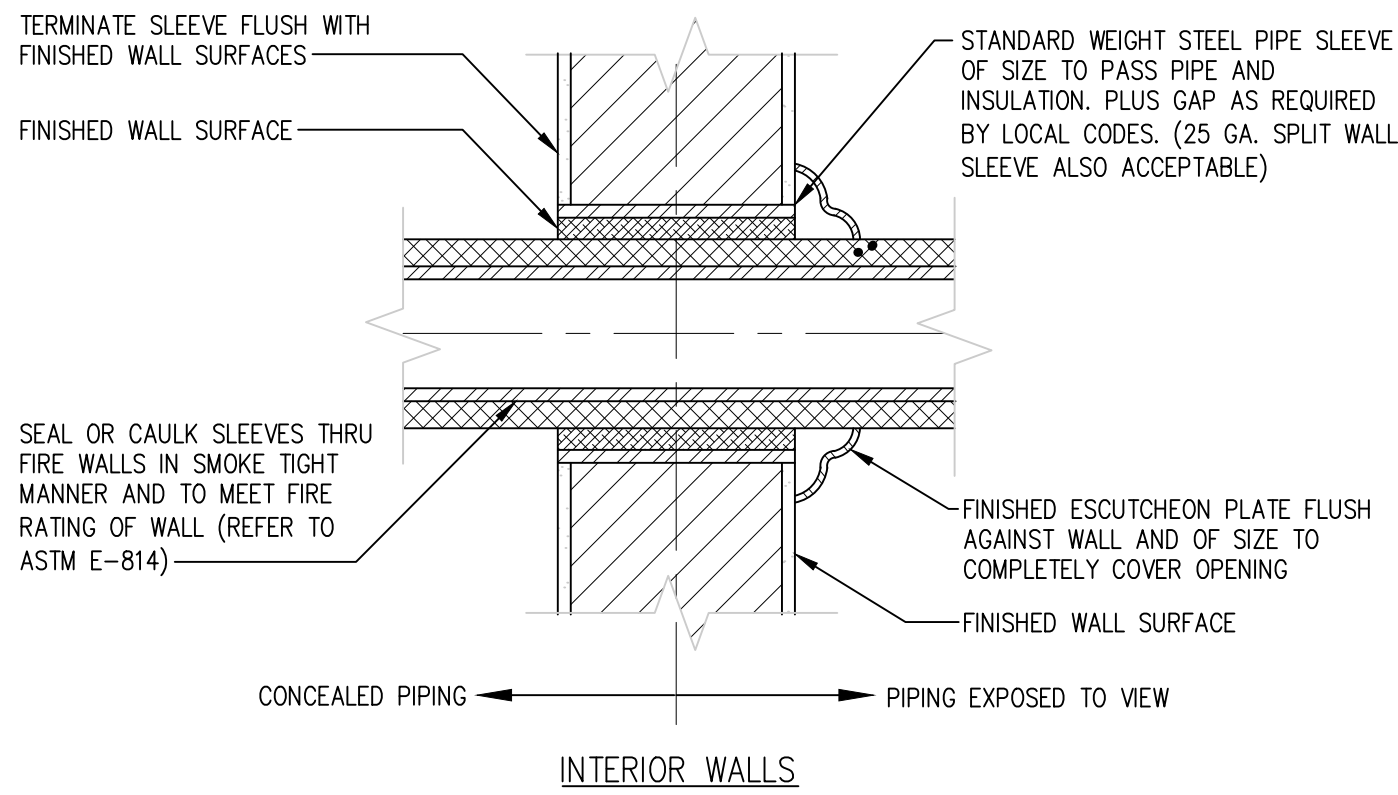
NO.	FIXTURE	MANUFACTURER	TYPE & MODEL NO.	FAUCET/TRIM	SUPPORT	PIPE SIZES					DESCRIPTION	REMARKS
						TRAP	WASTE	VENT	C.W.	H.W.		
P1	WATER CLOSET	AMERICAN STANDARD	CADET 2462.016	----	FLOOR MOUNTED	----	4"	2"	¾"	----	FLOOR MOUNTED, BOTTOM OUTLET VITREOUS CHINA WATER CLOSET WITH 1.6 GPF PRESSURE ASSISTED FLUSH & CHURCH MODEL #295CT 000 OPEN FRONT ELONGATED SEAT.	SEE NOTE 3
P1A	WATER CLOSET (ACCESSIBLE)	AMERICAN STANDARD	CADET 2467.016	----	FLOOR MOUNTED	----	4"	2"	¾"	----	FLOOR MOUNTED, BOTTOM OUTLET VITREOUS CHINA WATER CLOSET WITH 1.6 GPF PRESSURE ASSISTED FLUSH & CHURCH MODEL #295CT 000 OPEN FRONT ELONGATED SEAT. ICC/ANSI 117.1 COMPLIANT.	SEE NOTES 2, 3 & 4
P2	URINAL	AMERICAN STANDARD	WASHBROOK 6590.001	SLOAN 186-1.0	JAY R. SMITH	----	2"	1½"	1½"	----	WALL MOUNTED, BACK OUTLET VITREOUS CHINA URINAL WITH 1.0 GPF FLUSH VALVE.	SEE NOTES 2, 4 & 6
P3	LAVATORY	AMERICAN STANDARD	LUCERNE Q355.012	SPEAKMAN SC-3064-LD-E	JAY R. SMITH	1¼"x 1½"	1½"	1½"	½"	½"	21¾" x 18¼" x 6½" WALL HUNG, VITREOUS CHINA LAVATORY.	
P4	SINK (ACCESSIBLE)	ELKAY	MODEL # LRAD221955	ELKAY MODEL #LK800GN05T6	COUNTER TOP	1¼" x 1½"	1½"	1½"	½"	½"	22" x 19 ⅝" x 5 ⅝" DEEP STAINLESS STEEL COUNTER TOP SINK. COMPLETE WITH GOOSENECK FAUCET AND 6" WRISTBLADE HANDLES. ICC/ANSI 117.1 COMPLIANT.	SEE NOTES 1 & 5
P5	SHOWER (ACCESSIBLE)	FIAT	MODEL # ----	SPEAKMAN MODEL #SLV-3060	WALL MOUNTED	----	----	----	¾"	¾"	SPEAKMAN SENTINAL II TRIM AND SHOWER SYSTEM WITH CPV-PB PRESSURE BALANCE VALVE, S-2272-E2 SHOWER HEAD, S-2500 SHOWER ARM, FLANGE AND VS-100-PC-2.5 GPM HAND HELD SHOWER WITH 69" METAL HOSE.	SEE NOTES 2 & 4
P6	MOP RECEPTOR (ACCESSIBLE)	FIAT	MODEL # MSB2424	FIAT 830-AA	FLOOR MOUNTED	3"	3"	2"	¾"	¾"	24" x 24" x 10" DEEP MOLDED STONE BASIN. FURNISH AND INSTALL FIAT MODEL 832AA HOSE/BRACKET COMBINATION, MODEL 889CC MOP HANGER BRACKET AND MODEL MSG2424 WALL GUARDS.	----
NOTES: 1. PROVIDE MCGUIRE PRO-WRAP INSULATING KIT ON TRAPS AND HOT AND COLD WATER SUPPLIES TO ALL LAVATORIES. 2. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF HANDICAPPED FIXTURES. 3. PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL COORDINATE FIXTURE TYPE AND COLORS WITH THE ARCHITECT. 4. ALL HANDICAPPED FIXTURES SHALL BE INSTALLED PER ANSI A117.1-2009 REQUIREMENTS. 5. INSTALL AN ASSE 1070 COMPLIANT MIXING AT EACH LAVATORY. INSTALLATION SHALL BE CONCEALED. 6. PROVIDE AND INSTALL ALL REQUIRED FIXTURE CARRIERS.												



P-1 DOMESTIC WATER HEATER DETAIL
NOT TO SCALE



P-2 CLEVIS HANGER DETAIL
NOT TO SCALE



P-3 PIPE SLEEVES THRU INTERIOR WALL DETAIL
NOT TO SCALE

PLUMBING DRAIN AND SPECIALTY SCHEDULE

MARK	MANUFACTURER	SERIES	MODEL	DESCRIPTION	VARIATIONS/OPTIONS/ACCESSORIES	COLOR/FINISH	NOTES
FD-1	JAY R. SMITH	2110	2110Y	DUCO CAST IRON BODY AND FLASHING COLLAR WITH CAST IRON SLOTTED ADA GRATE.	----	CAST IRON	----
BTS-1	RECTORSEAL	SURESEAL	----	WATERLESS IN-LINE DRAIN TRAP SEAL	----	RUBBER	SEE NOTE #1
WH-1	JAY R. SMITH	5509	5509QT	BRONZE NICKEL PLATED ¾ TURN SELF DRAINING NON-FREEZE HYDRANT WITH HOSE CONNECTION, INTEGRAL VACUUM BREAKER, TEE HANDLE & STAINLESS STEEL BOX.	----	NICKEL BRONZE	----
NOTES: 1. WATERLESS IN-LINE TRAP SEAL DEVICE CREATES A WATERTIGHT SEAL THAT MINIMIZES EVAPORATION OF WATER IN THE TRAP AND PREVENTS SEWER GAS ODORS.							

PLUMBING EQUIPMENT SCHEDULE

DESIGNATION	NAME	LOCATION	CAP.	HD.	HP.	CURRENT	REMARKS
DWH 1	DOMESTIC WATER HEATER A.O. SMITH, MODEL #DEN-30	JANITOR 105	40 GALLONS	----	----	240V., 1ø, 60Hz.	ELECTRIC DOMESTIC WATER HEATER, 40 GALLONS STORAGE, 24 GALLONS PER HOUR RECOVERY @ 100° TEMP. RISE
XT 1	EXPANSION TANK AMTROL MODEL #ST-5C-DD	JANITOR 105	2.0 GALLONS	----	----	----	2.0 GALLON VOLUME, IN-LINE THERMAL EXPANSION TANK FACTORY CHARGED AT 55psi
CP 1	HOT WATER RECIRCULATING PUMP BELL & GOSSETT - MODEL #PL-30B	JANITOR 105	3 GPM	5 FT.	1/12	115V., 1ø, 60Hz	PUMP SHALL BE OF ALL BRONZE CONSTRUCTION. COMPLETE WITH BELL & GOSSETT MODEL AQS-3/4 AQUASTAT AND MODEL TC-1 TIMER.
TMV 1	THERMOSTATIC MIXING VALVE BRADLEY CORPORATION MODEL #559-2045	JANITOR 105	----	----	----	----	WALL MOUNTED HIGH/LOW THERMOSTATIC MIXING VALVE. 8.0 GPM FLOW RATE @ 2.25 psi PRESSURE DROP.

INSULATION SCHEDULE

SYSTEM	PIPE SIZE	PIPE INSULATION TYPE	PIPE INSULATION THICKNESS	FITTINGS, VALVES, FLANGES INSULATION TYPE	REMARKS
DOMESTIC COLD WATER, HOT WATER DOMESTIC HOT WATER RECIRCULATION	LESS THAN 1½"	MINERAL FIBER, PRE-FORMED	1"	MINERAL FIBER, PRE-FORMED	TYPE 1
DOMESTIC COLD WATER, HOT WATER DOMESTIC HOT WATER RECIRCULATION	1½" & LARGER	MINERAL FIBER, PRE-FORMED	1-1/2"	MINERAL FIBER, PRE-FORMED	TYPE 1
ADA COMPLIANT FIXTURE SUPPLIES, STOP VALVES, DRAIN TAILPIECES, TRAPS & WASTE	ALL	TRUEBRO OR SIMILAR APPROVED	-	-	-
DOMESTIC WATER RISERS AND BRANCHES	LESS THAN 1½"	MINERAL FIBER, PRE-FORMED	1"	MINERAL FIBER, PRE-FORMED	TYPE 1
DOMESTIC WATER RISERS AND BRANCHES	1½" & LARGER	MINERAL FIBER, PRE-FORMED	1-1/2"	MINERAL FIBER, PRE-FORMED	TYPE 1
NOTES: 1. MINERAL FIBER. THERMAL CONDUCTIVITY .22 TO .25 BTU X IN/HR X ° F W/ 100° F MEAN TEMP. THICKNESS BASED ON ASHRAE 90.1, 207, TABLE 6.8.3 2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. AND GENERAL NOTES FOR ADDITIONAL INFORMATION. 3. FULL LENGTH OF BRANCH PIPING MUST ALSO BE INSULATED OFF DOMESTIC HOT WATER RISERS. 4. PIPE SIZES 1" THRU 1½", INSULATION R VALUE SHALL BE R4.6. 5. PIPE SIZES 2" THRU 4", INSULATION R VALUE SHALL BE R6.8. 6. PIPE LABELS SHALL BE ANY OF THE FOLLOWINGS: PRETENSIONED PIPE LABELS - PRECOILED, SEMIRIGID PLASTIC FORMED TO COVER FULL CIRCUMFERENCE OF PIPE AND TO ATTACH TO PIPE WITHOUT FASTENERS OR ADHESIVE. SELF ADHESIVE PIPE LABELS - PRINTED PLASTIC WITH CONTACT-TYPE, PERMANENT-ADHESIVE BACKING. PIPE LABEL CONTENTS SHALL INCLUDE IDENTIFICATION OF PIPING SERVICE USING SAME DESIGNATIONS OR ABBREVIATIONS AS USED ON DRAWINGS. ALSO INCLUDE PIPE SIZE AND AN ARROW INDICATING FLOW DIRECTION. PIPE LABEL SPACING SHALL NOT EXCEED 50'-0" BETWEEN LABELS.					

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LITTLE EGG HARBOR TOWNSHIP, OCEAN COUNTY, NEW JERSEY

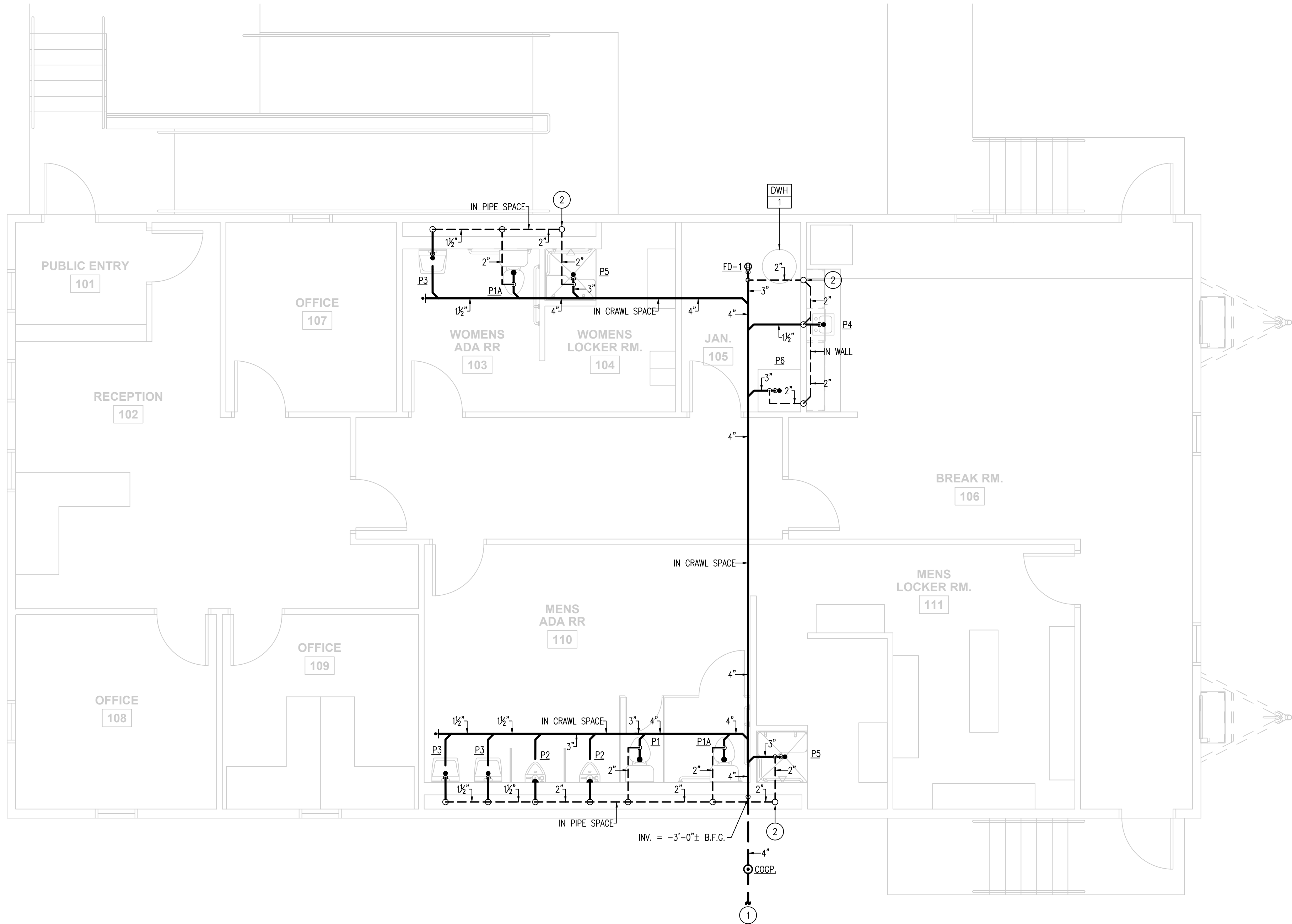
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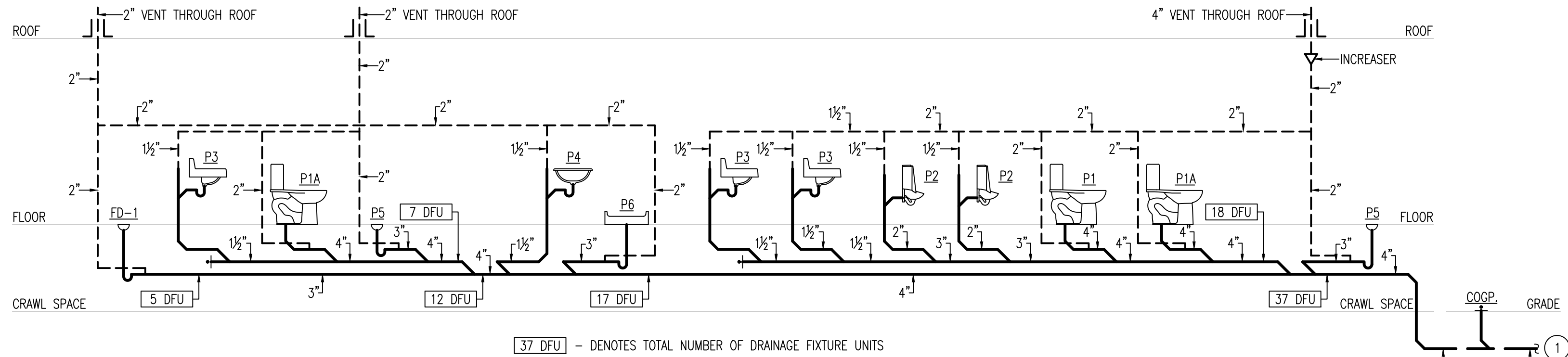
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1 PLUMBING NEW WORK FLOOR PLAN
1/4" = 1'-0"



2 SANITARY RISER DIAGRAM
NOT TO SCALE

NEW WORK PLAN KEYNOTES

SYMBOL =

- 1 SANITARY SEWER PIPING BELOW GRADE. CONTRACTOR SHALL TERMINATE PIPING 5'-0" FROM EDGE OF BUILDING. FOR CONTINUATION, SEE CIVIL ENGINEER'S DRAWINGS.
- 2 NEW VENT PIPING UP AND THROUGH ROOF.

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DEPARTMENT OF PUBLIC WORKS FACILITY
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PLUMBING NEW WORK FLOOR PLAN
SANITARY & VENT

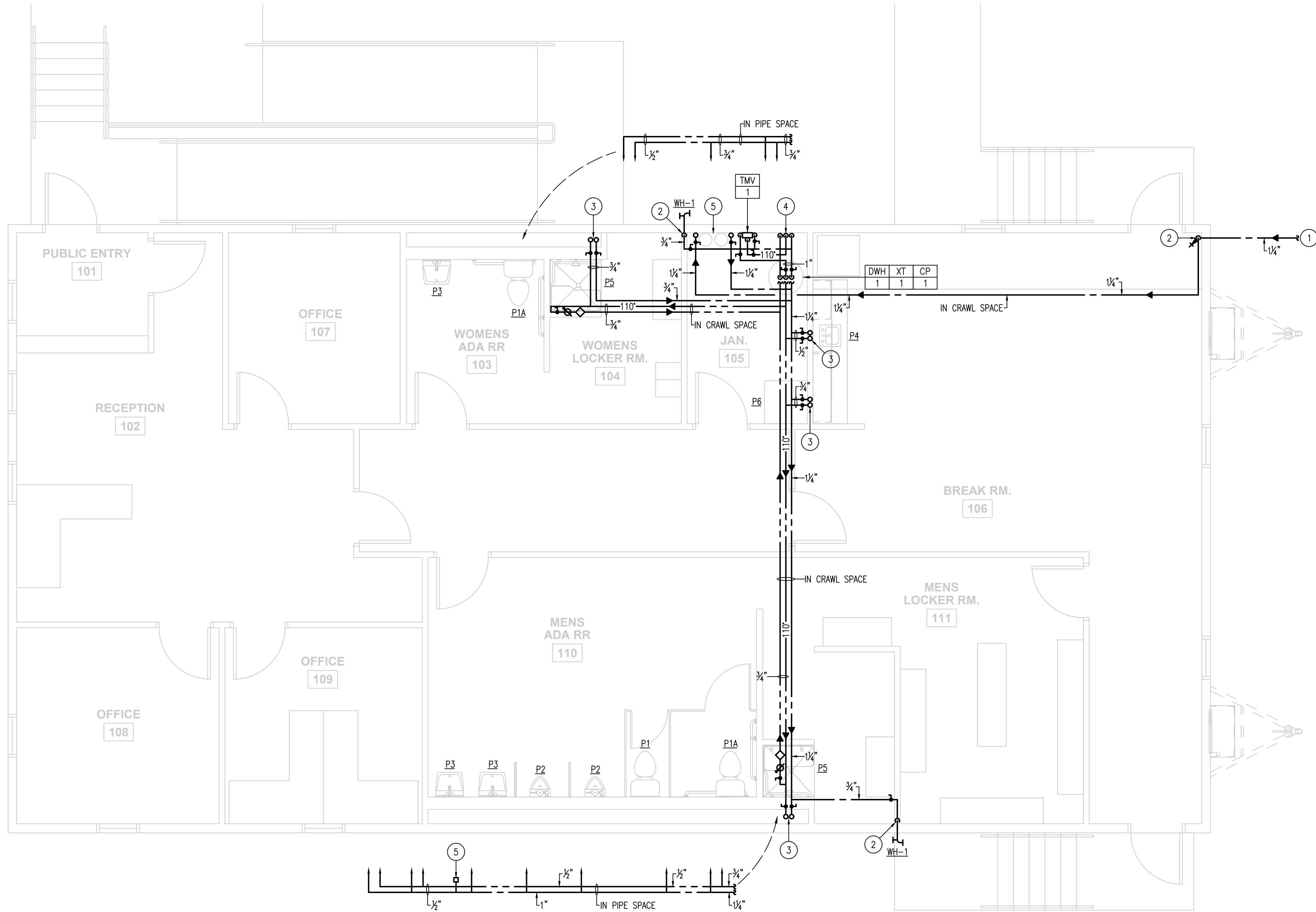


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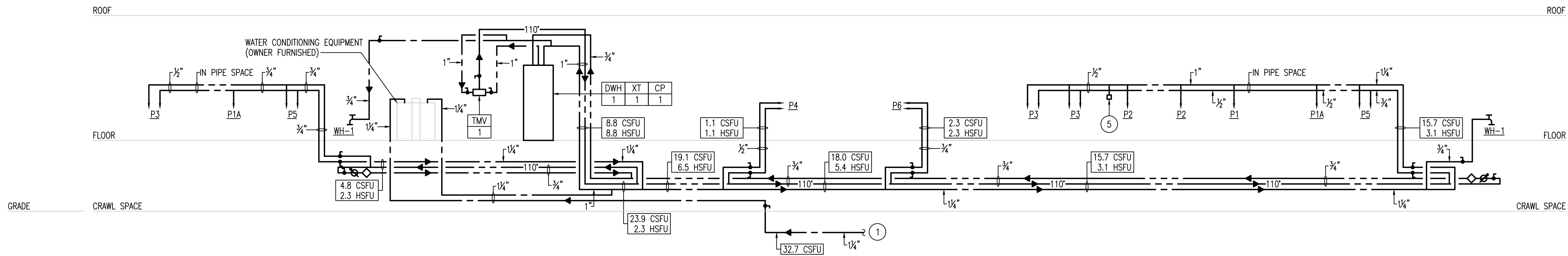
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1 PLUMBING NEW WORK FLOOR PLAN
1/4" = 1'-0"



2 DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE

NEW WORK PLAN KEYNOTES

SYMBOL = #

- 1 DOMESTIC WATER SERVICE. PLUMBING CONTRACTOR SHALL TERMINATE PIPING 5'-0" FROM EDGE OF BUILDING. FOR CONTINUATION, SEE CIVIL ENGINEER'S DRAWINGS.
- 2 COLD WATER PIPING DN.
- 3 HOT AND COLD WATER PIPING DN.
- 4 HOT WATER, COLD WATER AND HOT WATER RETURN PIPING DN.
- 5 WATER CONDITIONING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DOMESTIC WATER CONNECTIONS TO CONDITIONING EQUIPMENT.

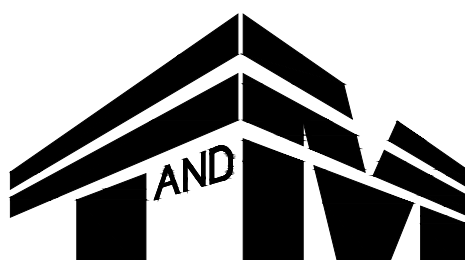
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PLUMBING NEW WORK PLAN
DOMESTIC WATER



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- GENERAL CONTRACTOR NOTES**
1. ALL INSTALLERS OF PRODUCTS THAT ARE NOT TRADITIONAL "STONE AND PIPE" SYSTEMS, INCLUDING GRAVEL, ALTERNATIVE PRODUCTS (INCLUDING CHAMBERS), ADVANCED WASTEWATER PRETREATMENT UNITS INCLUDING AEROBIC TREATMENT UNITS AND DRIP DISPERAL SYSTEMS ARE REQUIRED TO HAVE AN AUTHORIZATION FROM THE MANUFACTURER OF THOSE PRODUCTS, BUT ALSO A CREDENTIAL FROM THE NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION (NEHA). NEHA HAS CERTIFIED ON-SITE INSTALLERS OF WASTEWATER TREATMENT SYSTEMS (COWTS) AT THE ADVANCED LEVEL.
 2. THE SYSTEM AND ALL ITS COMPONENT PARTS SHALL BE CONSTRUCTED AND INSTALLED TO CONFORM IN ALL DETAILS TO THE REQUIREMENTS SET FORTH IN NJAC 7.9A (UNLESS OTHERWISE SPECIFIED) THE MANUFACTURER'S RECOMMENDATIONS AND TO THE ENGINEER'S DESIGN WHICH HAS BEEN APPROVED BY THE ADMINISTRATIVE AUTHORITY. DEPARTURES FROM THE APPROVED DESIGN WHICH BECOME NECESSARY DUE TO CIRCUMSTANCES WHICH ARISE DURING CONSTRUCTION AND INSTALLATION SHALL BE APPROVED BY THE DESIGN ENGINEER AND THE ADMINISTRATIVE AUTHORITY IN ACCORDANCE WITH NJAC 7.9A-3.7.
 3. CONTRACTOR TO HAVE ALL UTILITIES MARKED OUT PRIOR TO START OF CONSTRUCTION.
 4. ALL REQUIRED PERMITS TO BE OBTAINED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
 5. ALL ELECTRICAL WORK TO BE PERFORMED BY A LICENSED ELECTRICIAN.
 6. ANY INTERIOR PLUMBING ALTERATIONS TO BE PERFORMED BY A LICENSED PLUMBER.
 7. CONTRACTOR SHALL NOTIFY HOUSER ENGINEERING, LLC FOR THE FOLLOWING INSPECTIONS:
 - A. 48 HOURS PRIOR TO START OF CONSTRUCTION.
 - B. 24 HOURS PRIOR TO BOTTOM OF EXCAVATION INSPECTION.
 - C. 24 HOURS PRIOR TO SUITABLE FILL INSPECTION (IF APPLICABLE).
 - D. 24 HOURS PRIOR TO DISPOSAL BED LATERAL AND PUMP INSPECTION (IF APPLICABLE).
 - E. 24 HOURS PRIOR TO FINAL GRADING INSPECTION.
 - F. UPON COMPLETION OF INSTALLATION, INCLUDING FINISH GRADING AND SITE CLEAN-UP.
 8. CONTRACTOR MUST PROVIDE SAMPLE AND A QUARRY CERTIFICATE FOR SUITABLE FILL MATERIAL. THE CONTRACTOR ELECTS TO CONTINUE WITH CONSTRUCTION PRIOR TO CONFORMATION OF FAVORABLE SUITABLE FILL TEST RESULTS. THE ENGINEER DOES SO AT THEIR OWN RISK.
 9. ALL EXIST SEPTIC COMPONENTS NOT USED IN PROPOSED SEPTIC SYSTEM MUST BE LOCATED, PUMPED AND REMOVED/ABANDONED PER NJAC 7.9A. MUST BE CONFIRMED BY LOCAL ADMINISTRATIVE AUTHORITY.
 10. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL SEWER DISCHARGE POINTS PRIOR TO INSTALLATION OF ANY COMPONENTS. DIFFERING LOCATION OR ELEVATION MAY NECESSITATE DESIGN REVISIONS.
 11. IF ANY OF THE ABOVE MENTIONED REQUIREMENTS ARE NOT MET, HOUSER ENGINEERING, LLC WILL NOT ISSUE A CERTIFICATION STATEMENT OR AS-BUILT PLAN.

CONSTRUCTION SPECIFICATIONS

TREATMENT TANKS

1. TANKS SHALL BE WATER-TIGHT AND CONSTRUCTED OF SOUND AND DURABLE MATERIALS WHICH ARE RESISTANT TO CORROSION, DECAY, FROST DAMAGE OR TO CRACKING OR BUCKLING DUE TO SETTLEMENT OR BACKFILLING. ALL JOINTS BELOW THE LIQUID LEVEL OF THE TANK OR BELOW DUE TO THE SEASONALLY HIGH WATER TABLE SHALL BE PROVIDED WITH A PERMANENT WATER-TIGHT SEAL.
2. SEPTIC TANKS SHALL BE PLACED UPON A FIRM AND STABLE FOUNDATION SO THAT POTENTIAL FOR UNEVEN SETTLEMENT OR SHIFTING IS MINIMIZED. TANKS SHALL BE CONSTRUCTED OR INSTALLED DIRECTLY ON UNDISTURBED NATURAL SOIL IF THE EXCAVATION IS DUE TO DEEP, IT SHALL BE BACK-FILLED TO THE PROPER ELEVATION WITH SAND OR GRAVEL.
3. PREFABRICATED SEPTIC TANKS THAT MAY BE FLOATED OR SHIFTED BY WATER OR GROUND CAVE-IN SHALL BE FILLED WITH WATER IMMEDIATELY AFTER IT IS SET IN ITS PROPER POSITION.
4. BACKFILL AROUND SEPTIC TANKS SHALL BE FREE OF LARGE STONES, ROOTS OR FOREIGN OBJECTS, SHALL BE PLACED IN THIN LAYERS, NOT TO EXCEED EIGHT INCHES, AND SHALL BE THOROUGHLY TAMPED IN A MANNER THAT WILL NOT PRODUCE UNDUE STRAIN ON THE TANK.
5. CONTRACTOR MAY SUBSTITUTE FOR PROPOSED COMPONENTS PROVIDED WRITTEN APPROVAL FROM THE ENGINEER AND ADMINISTRATIVE AUTHORITY IS PROVIDED.
6. A SEPTIC SOLIDS RETAINER OR SEPTIC EFFLUENT FILTER SHALL BE INSTALLED AND MAINTAINED IN CONJUNCTION ON THE FINAL SEPTIC TANK OR COMPARTMENT PRIOR TO THE EFFLUENT DISTRIBUTION NETWORK AND IN ACCORDANCE WITH ALL MANUFACTURER'S SPECIFICATIONS. SEPTIC SOLIDS RETAINERS AND SEPTIC EFFLUENT FILTERS SHALL BE CERTIFIED BY, AND BEAR THE MARK OF, NSF INTERNATIONAL (NSF) UNDER NSF STANDARD 46.
7. TANKS ARE TO BE TESTED FOR WATER-TIGHTNESS IN ACCORDANCE WITH NJAC 7.9A. CERTIFICATE SHALL BE PROVIDED BY CONTRACTOR.

ACCESS OPENINGS FOR SEPTIC TANKS

1. A PERMANENT, NON-CORROSIVE MARKER A MINIMUM OF SIX SQUARE INCHES IN SIZE CONTAINING THE FOLLOWING INFORMATION SHALL BE ATTACHED TO THE MANHOLE COVER OR RISER IMMEDIATELY BELOW THE COVER:
 - A) THE ADMINISTRATIVE AUTHORITY NAME AND PERMIT NUMBER UNDER WHICH THE SYSTEM WAS INSTALLED.
 - B) THE DATE OF INSTALLATION.
 - C) THE TYPE OF SYSTEM, AND
 - D) THE TOTAL DESIGN CRITERIA IN GALLONS PER DAY.

PUMP TANKS

1. PUMP TANKS SHALL MEET ALL THE REQUIREMENTS OF A SEPTIC TANK, AS MENTIONED ABOVE.
2. PUMP TANKS SHALL BE CONSTRUCTED IN A MANNER THAT WILL ALLOW VENTING OF THE TANK AND, WHERE APPLICABLE, THE DISPOSAL AREA.
3. PUMP TANKS SHALL BE READILY ACCESSIBLE FOR SERVICE AND REPAIR. A WATER-TIGHT RISER WITH A REMOVABLE WATER-TIGHT MANHOLE COVER SHALL BE PROVIDED. MANHOLES AND/OR COVERS SHALL BE LOCATED DIRECTLY OVER THE PUMP.
4. EASY ON/OFF DISCONNECT COUPLINGS SHALL BE PROVIDED TO FACILITATE REMOVAL OF THE PUMP.
5. SWITCHES SHALL BE ABLE TO WITHSTAND THE HUMID AND CORROSIVE ATMOSPHERE IN THE PUMP TANK. MERCURY OR WEIGHTED FLOAT SWITCHES ARE SUITABLE FOR THIS PURPOSE. PRESSURE-DIAPHRAGM TYPE SWITCHES ARE PROHIBITED.
6. THE HIGH-WATER ALARM SWITCH SHALL ACTIVATE VISIBLE AND AUDIBLE ALARMS WHICH CAN BE READILY SEEN AND HEARD BY OCCUPANTS WITHIN THE BUILDING.
7. THE ALARM AND ITS SWITCH SHALL NOT BE ON THE SAME ELECTRICAL CIRCUIT AS THE PUMP AND ITS SWITCHES.
8. ALL ELECTRICAL CONTACTS AND RELAYS SHALL BE LOCATED OUTSIDE OF THE PUMP TANK AND A GAS TIGHT SEAL SHALL BE PROVIDED WHERE ELECTRICAL CONDUITS ENTER THE TANK.
9. ALL ELECTRICAL SERVICE LINES FROM THE HOME OR FACILITY TO THE PUMP CONTROL PANEL AND TO THE PUMP TANK SHALL BE PROTECTED BY ELECTRICAL CONDUIT.

DISPOSAL FIELD EXCAVATION

1. ADEQUATE MEASURES SHALL BE USED TO INSURE THAT THE BOTTOM OF THE DISPOSAL BED OR EACH INDIVIDUAL DISPOSAL TRENCH IS LEVEL.
2. IN SOIL TEXTURES OTHER THAN SANDS OR LOAMY SANDS, EXCAVATION WHICH EXPOSES THE INFILTRATIVE SURFACE OF THE DISPOSAL FIELD SHALL NOT BE CARRIED OUT WHEN THE SOIL MOISTURE CONTENT IS ABOVE THE LOWER PLASTIC LIMIT. THIS MEANS THAT WHEN A SMALL LUMP OF SOIL TAKEN FROM THE DEPTH OF THE PROPOSED EXCAVATION CAN BE ROLLED OUT WITH THE FINGERS TO FORM A WIRE OR ROD, ONE-EIGHTH OF AN INCH IN THICKNESS, AND DOES NOT CRUMBLE WHEN HANDLED, THE SOIL IS TOO WET TO PROCEED WITH THE EXCAVATION.
3. EXCAVATION SHALL BE CARRIED OUT IN A MANNER THAT WILL AVOID UNNECESSARY COMPACTION OF THE DISPOSAL FIELD BOTTOM AND SIDEWALLS. HEAVY EQUIPMENT SUCH AS BULLDOZERS OR FRONT-END LOADERS SHALL NOT BE DRIVEN OVER THE EXPOSED INFILTRATIVE SURFACE OF THE DISPOSAL FIELD. EXCAVATION SHOULD BE CARRIED OUT WITH A BACKHOE OPERATING FROM BETWEEN DISPOSAL TRENCHES OR FROM OUTSIDE THE PERIMETER OF PREVIOUSLY EXCAVATED PORTIONS OF THE DISPOSAL BED.
4. ANY SMEARED OR COMPACTED SOIL SURFACES WHICH HAVE BEEN PRODUCED ON THE BOTTOM OR SIDEWALLS OF THE EXCAVATION SHALL BE REMOVED TO EXPOSE A FRESH SOIL SURFACE WHICH IS ROUGH AND UNEVEN.
5. WORK SHOULD BE SCHEDULED SO THAT THE BOTTOM AND SIDEWALLS OF THE EXCAVATION WILL NOT BE EXPOSED TO RAINFALL OR WIND-BLOWN SILT BETWEEN THE TIME OF EXCAVATION AND THE TIME OF FINAL INSPECTION AND BACKFILLING. ANY LOOSE SOIL OR DEBRIS WHICH IS WASHED OR OTHERWISE DEPOSITED WITHIN THE EXCAVATION.

SUITABLE FILL MATERIAL (OR ENGINEER APPROVED SUBSTITUTE)

1. FILL MATERIAL SHALL BE PLACED AND COMPACTED IN LAYERS ONE FOOT OR LESS IN THICKNESS.
2. COMPACTION TO ACHIEVE DESIRED PERMEABILITY MAY BE ACCOMPLISHED BY TAMING, ROLLING, OR BY DRIVING OVER THE FILLED AREA IN A CONTROLLED PATTERN UNDER THE OBSERVATION OF HOUSER ENGINEERING, LLC.
3. A MINIMUM OF ONE FOOT OF FILL MATERIAL SHALL BE MAINTAINED BELOW THE VEHICLE TRACKS OR WHEELS AND THE INFILTRATIVE SURFACE AT ALL TIMES.
4. ZONE OF TREATMENT REQUIREMENTS PER NJAC 7.9A-10.104:
 - a. COARSE FRAGMENT CONTENT (GREATER THAN NO. 8 SIEVE) LESS THAN 15% BY VOL. OR 20% BY WEIGHT.
 - b. TEXTURAL ANALYSIS (COMPOSITION, BY WEIGHT, OF SIZE FRACTION PASSING THE SIEVE AS STATED):
 - BETWEEN 80% AND 100% MUST PASS A NO. 8 SIEVE (2.36 mm)
 - BETWEEN 50% AND 85% MUST PASS NO. 16 SIEVE (1.18 mm)
 - BETWEEN 25% AND 80% MUST PASS NO. 30 SIEVE (0.6 mm)
 - BETWEEN 10% AND 30% MUST PASS NO. 50 SIEVE (0.3 mm)
 - BETWEEN 2% AND 10% MUST PASS NO. 100 SIEVE (0.15 mm)
 - c. PERMEABILITY RATE GREATER THAN 6 IN/HR.
5. ZONE OF DISPOSAL REQUIREMENTS PER NJAC 7.9A-10.105:
 - a. COARSE FRAGMENT CONTENT LESS THAN 15% BY VOLUME OR LESS THAN 25% BY WEIGHT, AND
 - b. TEXTURAL ANALYSIS (COMPOSITION, BY WEIGHT, OF SIZE FRACTION PASSING THE 2 MILLIMETER SIEVE) 85% OR MORE OF SAND; AND
 - c. PERMEABILITY GREATER THAN 2 INCHES PER HOUR; OR PERCOLATION RATE FASTER THAN 30 MINUTES PER INCH.

PRESSURE DOSED NETWORKING

1. ALL JOINTS AND CONNECTIONS SHALL BE WATER-TIGHT. SOLVENT-WELD JOINTS SHALL BE USED.
2. HOLES SHALL BE SPACED EVENLY, IN A STRAIGHT LINE ALONG THE INVERT OF EACH LATERAL. HOLES IN ADJACENT LATERALS SHALL BE OFFSET BY ONE-HALF THE HOLE SPACING SO THAT THE DISTANCE BETWEEN HOLES IN ADJACENT LATERALS IS MAXIMIZED. ALL HOLES SHALL BE DE-BURRED.
3. THE ENDS OF THE LATERALS SHALL BE CAPED. A SMALL HOLE SHALL BE DRILLED HORIZONTALLY IN THE END-CAP OF EACH LATERAL, NEAR THE CROWN, TO FACILITATE VENTING AT THE BEGINNING OF EACH DOSING CYCLE.
4. EACH INDIVIDUAL DISTRIBUTION LATERAL SHALL BE APPROXIMATELY LEVEL.

FILTER MATERIAL

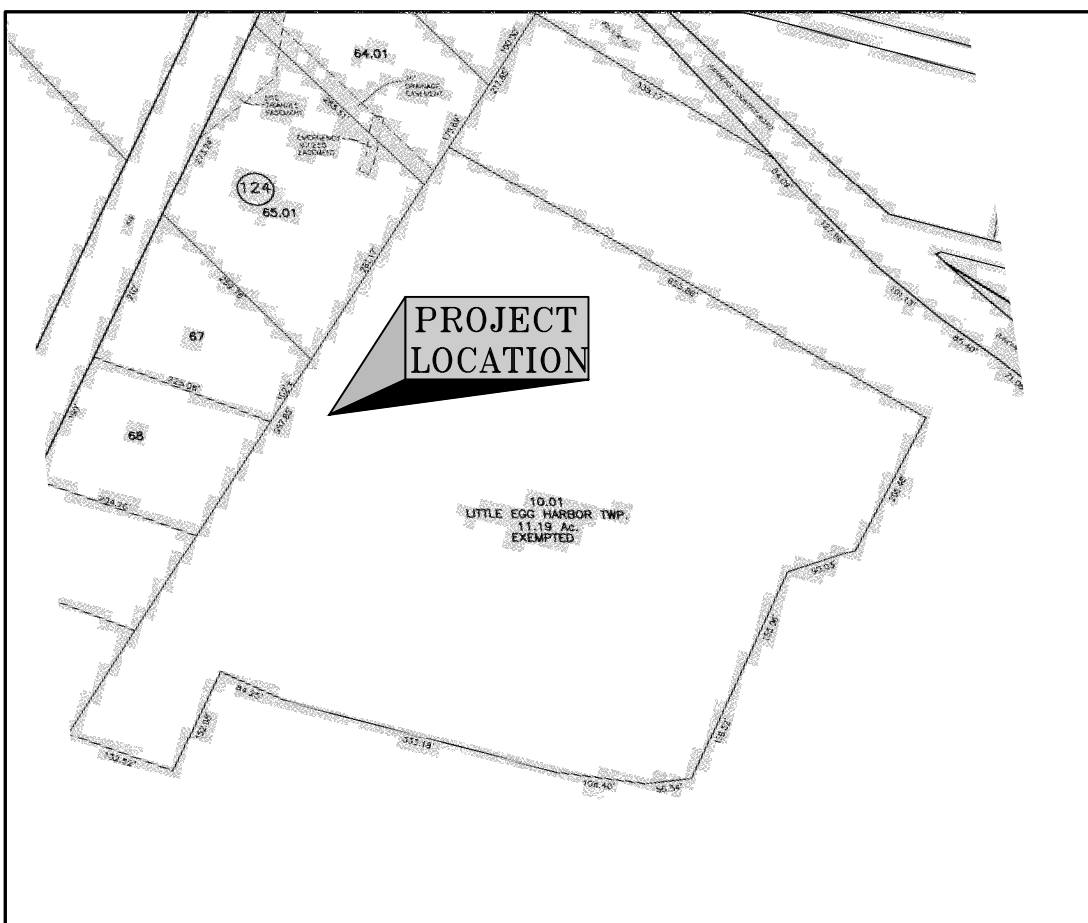
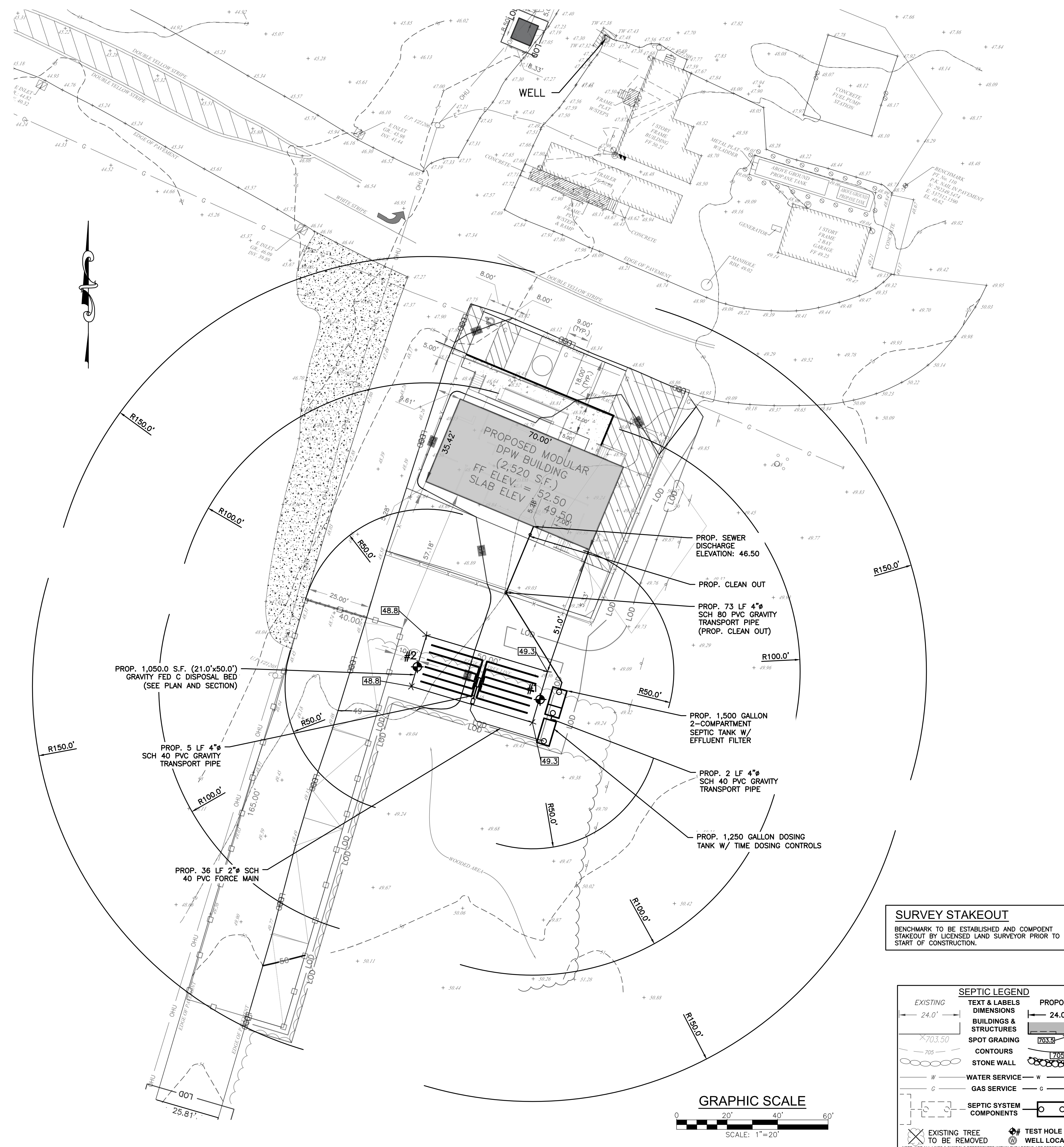
1. THE FILTER MATERIAL TO BE NUDOT STANDARD NUMBER 24, 3, OR 4. IN GENERAL, THIS SHALL BE 3/4 - 2 1/2 INCH WASHED GRAVEL OR CRUSHED STONE, FREE OF FINES, DUST, ASHES OR CLAY.
2. THE FILTER MATERIAL SHALL BE COVERED WITH DRAINAGE FABRIC.
3. DRAINAGE FABRIC SHALL HAVE ADEQUATE TENSILE STRENGTH TO PREVENT RIPPING DURING INSTALLATION AND BACKFILLING. ADEQUATE AIR PERMEABILITY TO ALLOW FREE PASSAGE OF GASES, AND ADEQUATE PARTICLE RETENTION TO PREVENT DOWNWARD MIGRATION OF SOIL PARTICLES INTO THE FILTER MATERIAL.
4. THE EDGES OF ADJACENT SHEETS SHALL BE OVERLAPPED BY A MINIMUM OF SIX INCHES.

PIPING

1. ALL PIPING, INCLUDING TRANSPORT PIPES, TANK INSPECTION PORTS, VENTS, ETC. SHALL BE SCH. 40 PVC.

BACKFILL AND FINAL GRADING

1. A MINIMUM OF 9 INCHES AND NO MORE THAN 18 INCHES OF BACKFILL SHALL BE PLACED OVER THE TOP OF THE FILTER FABRIC UNLESS OTHERWISE SPECIFIED.
2. BACKFILL MATERIAL SHALL BE OF EARTH SIMILAR TO THAT FOUND AT THE SITE AND FREE OF LARGE STONES, TREE STUMPS, BROKEN MASONRY OR OTHER WASTE CONSTRUCTION MATERIAL.
3. IN NO CASE SHALL THE BACKFILL MATERIAL BE MORE PERMEABLE THAN THE SURROUNDING SOIL.
4. BACKFILL SHALL COMPLETELY COVER THE DISPOSAL BED OR EACH OF THE DISPOSAL TRENCHES AND SHALL BE GRADED SMOOTHLY INTO THE SURROUNDING TOPOGRAPHY ON ALL SIDES.
5. THE FOLLOWING PRACTICES SHALL BE FOLLOWED:
 - A. HEAVY MACHINERY, RUBBER-TIRED VEHICLES OR OTHER VEHICLES EXERT A GROUND PRESSURE IN EXCESS OF EIGHT POUNDS PER SQUARE INCH SHALL NOT BE PERMITTED TO PASS OVER THE DISPOSAL FIELD AFTER THE FILTER MATERIAL AND DISTRIBUTION NETWORK HAVE BEEN INSTALLED.
 - B. TRACKED EQUIPMENT MAY BE USED FOR THE PURPOSE OF BACKFILLING AND FINAL GRADING PROVIDED THAT THIS EQUIPMENT DOES NOT EXERT A PRESSURE ON THE UNDERLYING SOIL IN EXCESS OF EIGHT POUNDS PER SQUARE INCH.
 - C. FINAL GRADING SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED ENGINEERING DESIGN AND IN SUCH A MANNER THAT SURFACE WATER WILL NOT COLLECT OVER THE DISPOSAL FIELD OR BE DIRECTED TOWARDS THE DWELLING.
 - D. AFTER COMPLETION OF BACKFILLING AND FINAL GRADING, THE BACKFILLED AREA OVER THE DISPOSAL FIELD SHALL BE SEEDED OR SODDED TO ESTABLISH A VEGETATIVE COVER OR OTHERWISE STABILIZED AGAINST EROSION IN A MANNER ACCEPTABLE TO THE ADMINISTRATIVE AUTHORITY.
6. FINAL COVER SHALL BE TOP SOIL (14 INCHES RECOMMENDED) CAPABLE OF SUPPORTING GRASS GROWTH, SEEDS/SEEDSODDED, AND HAYED AS SOON AS PRACTICAL.
7. SOME SETTLEMENT WITHIN BACKFILLED AREAS MAY OCCUR AND SHOULD BE ADDRESSED BETWEEN THE OWNER AND CONTRACTOR.



KEY MAP

N.T.S.

SOIL LOGS

SOIL LOG#1 - JULY 20, 2026

0\"-7\" TOP SOIL

7\"-28\" 10YR5/4 FINE LOAMY SAND, 0%,0%,0%
SAB, DRY:SOFT

28\"-120\" 7.5YR6/6 SAND, 0%,0%,0%
SINGLE GRAIN, MOIST:LOOSE

SAMPLE: @ 60\"

NO MOTTLES
NO SEEPAGE
NO LEDGE
ROOTS: TO 72\"

SOIL LOG#1 - JULY 20, 2026

0\"-8\" TOP SOIL

8\"-26\" 10YR5/4 FINE LOAMY SAND, 0%,0%,0%
SAB, DRY:SOFT

26\"-120\" 7.5YR6/6 SAND, 0%,0%,0%
SINGLE GRAIN, MOIST:LOOSE

NO MOTTLES
NO SEEPAGE
NO LEDGE
ROOTS: TO 72\"

DESIGN CRITERIA

VOLUME OF SANITARY SEWAGE, Q (DESIGN FLOW)

32 EMPLOYEES X 15 GPD PER EMPLOYEE = 480 GPD
10 SHOWER USERS X 5 GPD PER PERSON = 50 GPD
ONE SINK STATION = 120 GPD

TOTAL DESIGN FLOW: 480 + 50 + 120 = 650 GPD

SEPTIC TANK CAPACITY
- REQUIRED: 1,000 GALLONS
- PROVIDED: 1,500 GALLONS (2-COMPARTMENT)

STANDARD DISPOSAL BED SIZING
- GRAVITY FED: 1.61 S.F./GPD
- 650 GPD X 1.61 FT/GPD = 1,046.5 S.F.

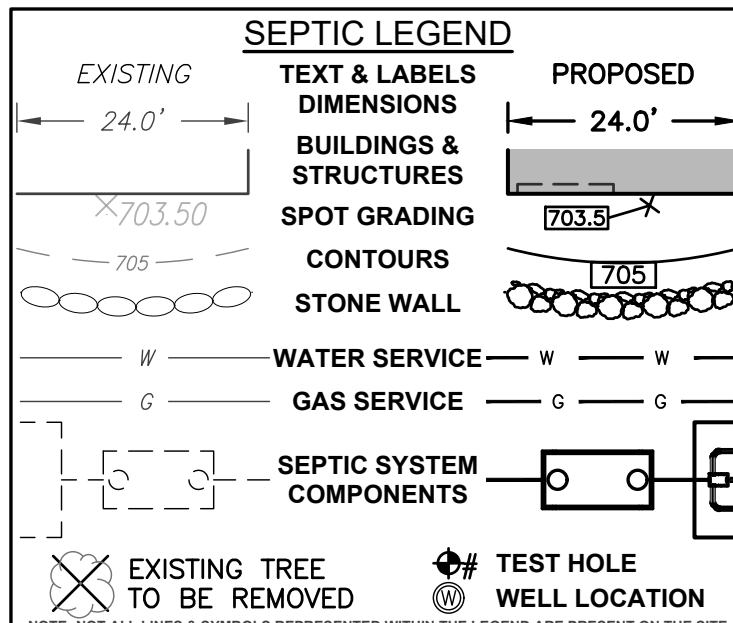
PROPOSED DISPOSAL BED
- 21.0' X 50.0' = 1,050.0 S.F.

GENERAL NOTES

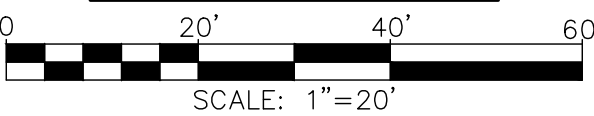
1. THIS DESIGN WAS PREPARED IN ACCORDANCE WITH EXISTING STATE AND LOCAL REGULATIONS. NO GUARANTEE IS MADE OR IMPLIED SINCE SUCCESSFUL OPERATION IS RELIED IN LARGE PART ON PROPER USAGE AND MAINTENANCE OF THE SEPTIC SYSTEM.
2. THIS DESIGN IS BASED ON CONDITIONS WHICH WERE PRESENT AT THE TIME OF SITE EVALUATION AND SOIL LOGS. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR DIFFERING OR UNFORESEEN SITE CONDITIONS. THESE CONDITIONS MAY NECESSITATE REVISIONS TO THE DESIGN INCLUDING RELOCATION OF TANKS OR OTHER SYSTEM ELEMENTS. ANY SUCH CHANGES REQUIRED BY THE ENGINEER OR ADMINISTRATIVE AUTHORITY MAY BE SUBJECT TO ADDITIONAL COSTS AT THE OWNERS EXPENSE.
3. NO CHANGES SHALL BE MADE TO THIS DESIGN WITHOUT THE WRITTEN PERMISSION FROM A LICENSED PROFESSIONAL ENGINEER AND THE ADMINISTRATIVE AUTHORITY.
4. THERE ARE NO ADJACENT WELLS WITHIN 100 FEET OR SEPTIC SYSTEMS WITHIN 50 FEET OF THE PROPOSED SEPTIC SYSTEM OTHER THAN THOSE SHOWN ON THE DRAWINGS.
5. ALL EXISTING TREES WITHIN 10 FEET OF THE SEPTIC SYSTEM ARE RECOMMENDED FOR REMOVAL. CONSTRUCTION OF THE SEPTIC SYSTEM MAY DISTURB THE ROOT STRUCTURE OF THE TREES OR EFFECT THE GROUND WATER CONDITIONS OF SURROUNDING TREES CAUSING THEM TO DIE. IF ANY TREES DIE, IT IS CONSIDERED AN ACT OF NATURE AND NEITHER THE ENGINEER NOR THE CONTRACTOR CAN BE HELD RESPONSIBLE.
6. ALL SEWAGE (GRAY AND BLACK) MUST BE DISPOSED OF IN THE PROPOSED SEPTIC SYSTEM.
7. NO WATER SOFTENER, ROOF, FLOOR, OR ANY OTHER DRAINS SHALL BE CONNECTED TO THE SYSTEM.
8. THIS SEPTIC SYSTEM WAS NOT DESIGNED FOR USE WITH A GARBAGE DISPOSAL SYSTEM OR SEWAGE EJECTOR PUMP.
9. UNDERGROUND IRRIGATION SYSTEMS ARE NOT TO BE INSTALLED WITHIN 10 FEET OF SYSTEM COMPONENTS. ANY EXISTING IRRIGATION PIPING WITHIN 10 FEET OF THE SEPTIC COMPONENTS IS TO BE REMOVED OR RELOCATED.
10. BASED ON A REVIEW OF THE NJ GEOWATER MAP AND FLOOD INSURANCE RATE MAP (FIRM) THE PROPOSED SYSTEM IS NOT LOCATED WITHIN A FRESHWATER WETLAND OR ASSOCIATED TRAIL OR FLOOD HAZARD AREA.
11. TOPOGRAPHIC ELEVATION DATA IS BASED ON APPROXIMATE FIELD MEASUREMENTS AND IS MEANT SOLELY FOR THE CONSTRUCTION OF THE PROPOSED SEPTIC SYSTEM ALTERATION. THE DATA IS BASED ON AN ASSUMED DATUM AND SHOULD NOT BE RELIED ON FOR ANY OTHER PURPOSES.
12. ROOF LEADER AND DOWN SPOUT DRAINS ARE TO BE MODIFIED AS NECESSARY TO DIRECT WATER AWAY FROM THE SEPTIC SYSTEM.
13. REFERENCES:
 - MODULAR BUILDING & SITE IMPROVEMENT PLANS PREPARED BY: T AND M ASSOCIATES DATED SEPTEMBER 28, 2026

SURVEY STAKEOUT

BENCHMARK TO BE ESTABLISHED AND COMPONENT STAKEOUT BY LICENSED LAND SURVEYOR PRIOR TO START OF CONSTRUCTION.



GRAPHIC SCALE



HOUSER Engineering, LLC
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TEL: 973-728-2945 | FAX: 973-506-1524 | www.housereng.com
LANDSCAPE ARCHITECT | RESIDENTIAL SEPTIC RETAINING WALL DESIGN | STORMWATER MANAGEMENT
NJ CERTIFICATE OF AUTHORIZATION NO.: 24GA28163600

J.R. HOUSER
Professional Engineer
MARYLAND LICENSE NO. 46919
NEW JERSEY LICENSE NO. 24G04747700
NEW YORK LICENSE NO. 090129
PENNSYLVANIA LICENSE NO. PE079324

811
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OVERALL SITE

PROJECT:
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

1363 COUNTY ROAD 539
LITTLE EGG HARBOR TOWNSHIP
BLOCK 124, LOT 10.01
OCEAN COUNTY NEW JERSEY

DRAWN BY:
CPH

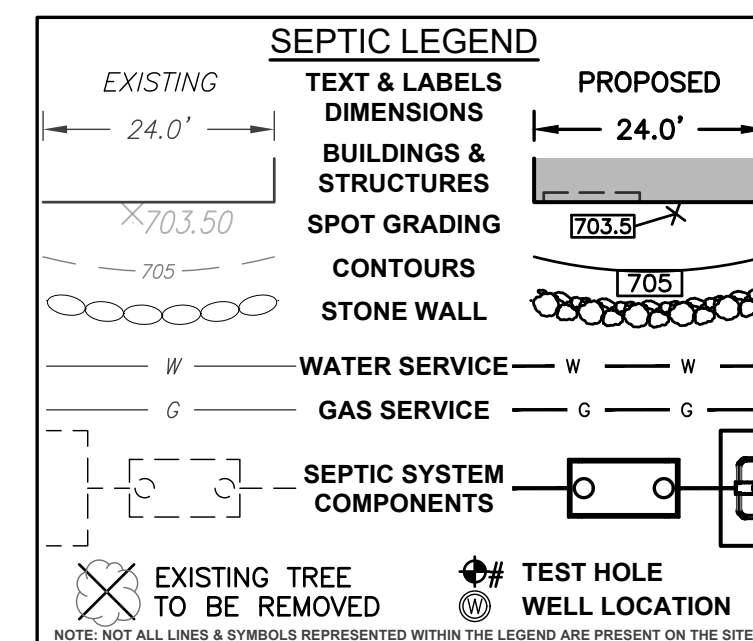
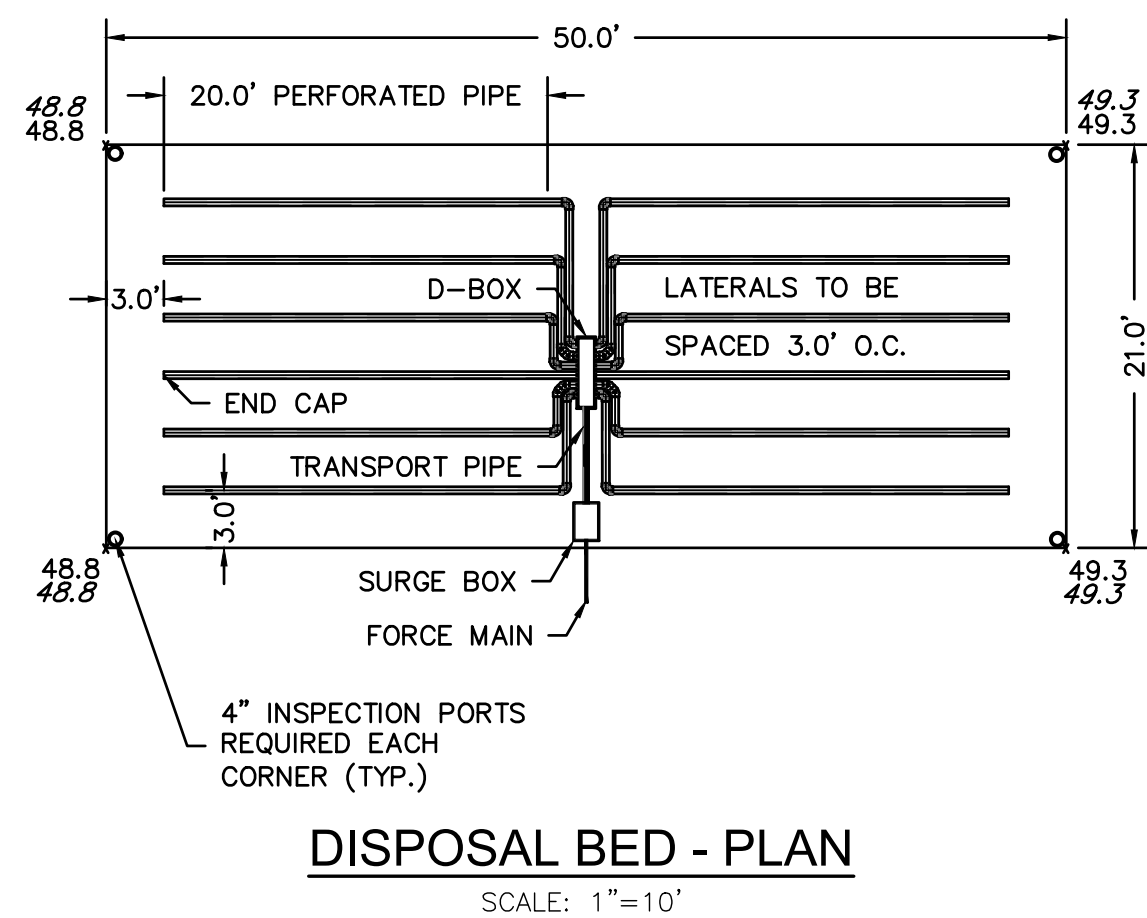
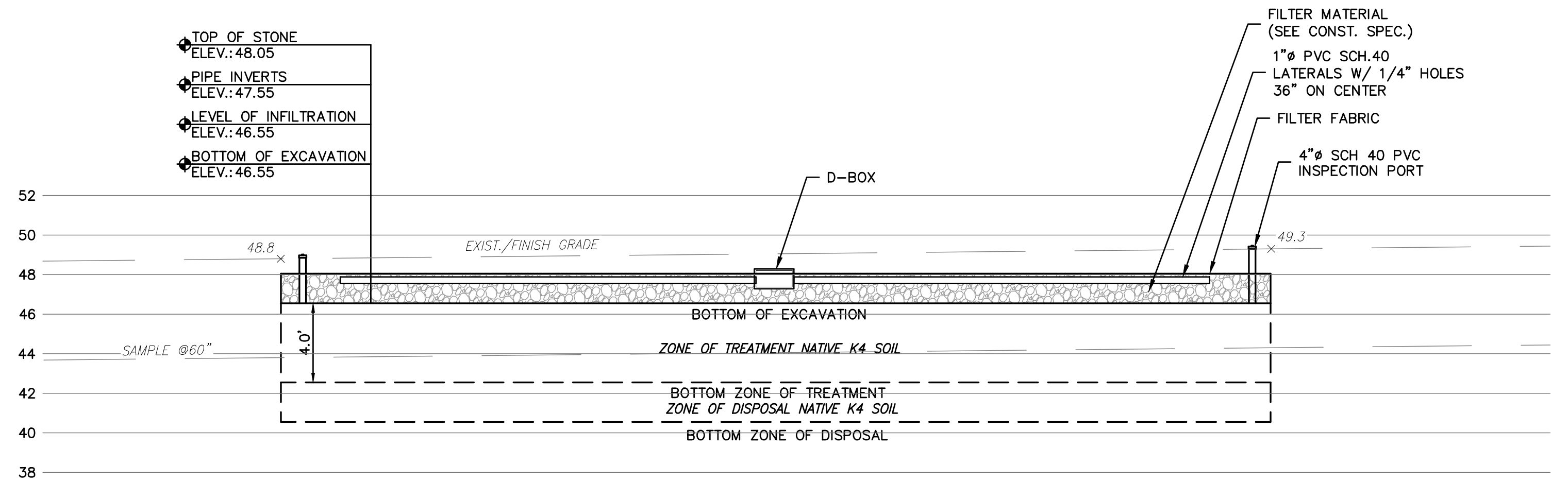
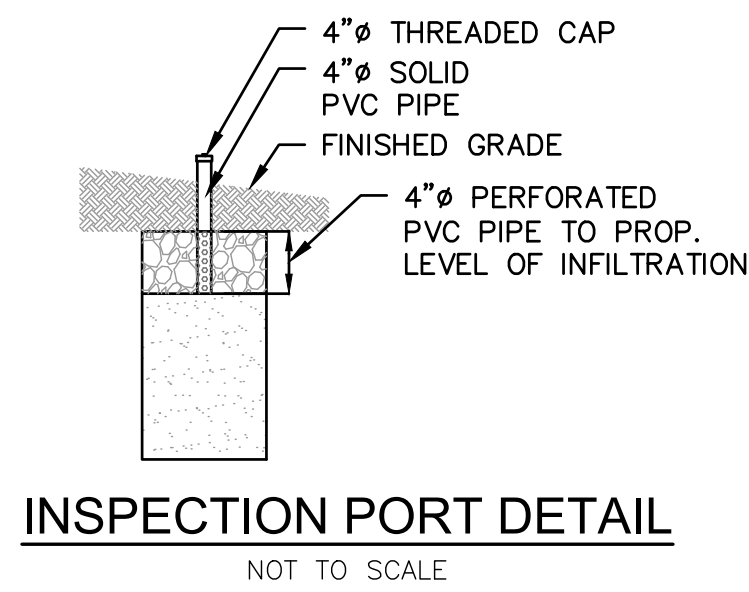
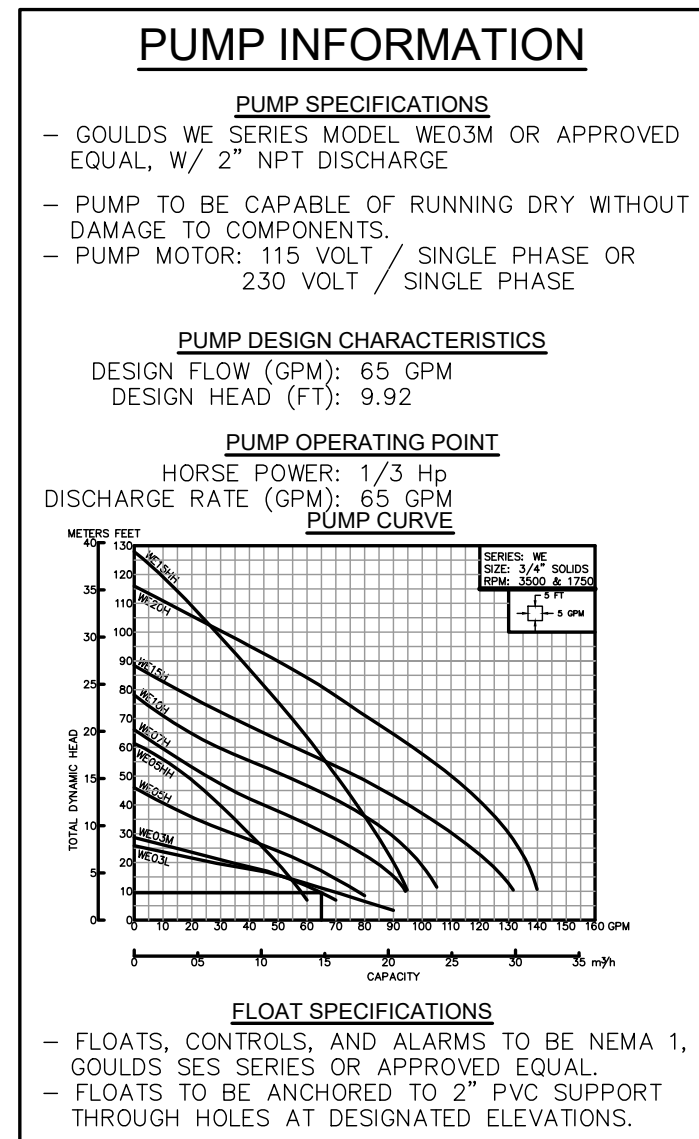
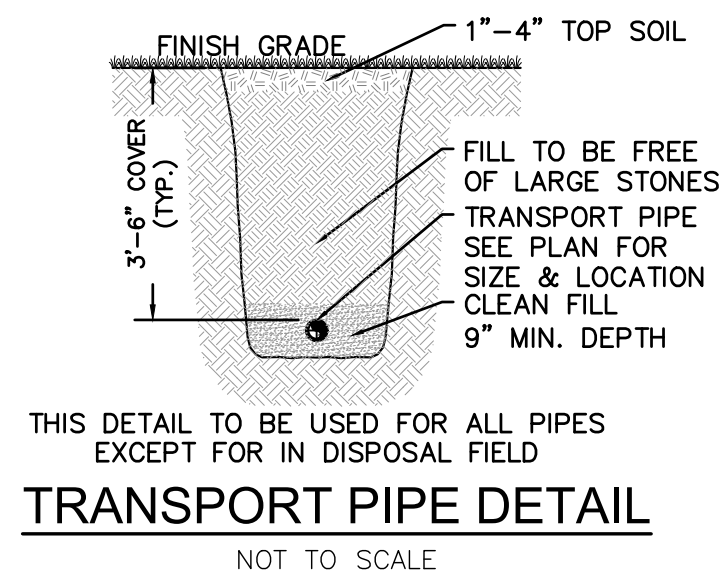
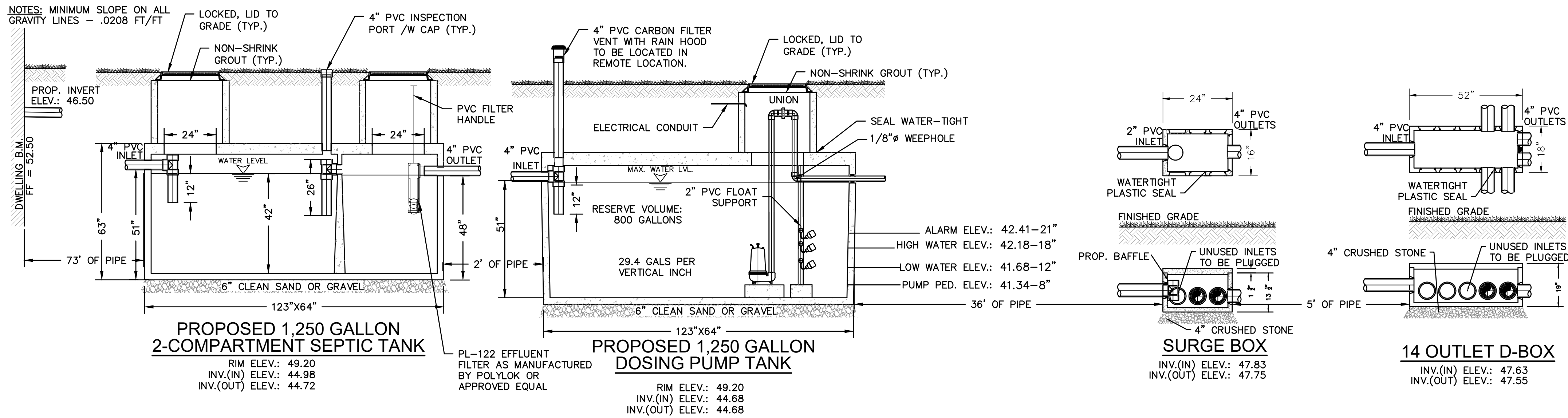
SCALE:
AS SHOWN

DATE:
09/30/26

PROJECT NO.:
5503.26

SHEET:
1

2



REV	COMMENT	DATE

Houser Engineering, LLC

1141 GREENWOOD LAKE TURNPIKE, RINGWOOD, NJ 07456
TEL: 973-728-2945 | FAX: 973-506-1524 | www.housereng.com
LAND DEVELOPMENT | WATERWATER SERVICES | RESIDENTIAL SEPTIC RETAINING WALL DESIGN | STORMWATER MANAGEMENT

NJ CERTIFICATE OF AUTHORIZATION NO.: 24GA28163600

J.R. HOUSER

PROFESSIONAL ENGINEER
MARYLAND LICENSE NO. 46919
NEW JERSEY LICENSE NO. 24GEX747700
NEW YORK LICENSE NO. 050129
PENNSYLVANIA LICENSE NO. PE079324

DETAILS SHEET

OWNER: LITTLE EGG HARBOR TOWNSHIP
666 RADIO ROAD
LITTLE EGG HARBOR, NJ 08087
609-296-7241

PROJECT: **ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM**

**1363 COUNTY ROAD 539
LITTLE EGG HARBOR TOWNSHIP
BLOCK 124, LOT 10.01**

OCEAN COUNTY NEW JERSEY

APPLICANT: LITTLE EGG HARBOR TOWNSHIP
666 RADIO ROAD
LITTLE EGG HARBOR, NJ 08087
609-296-7241

DATE: 09/30/26

PROJECT NO.: 5503.26

SCALE: AS SHOWN

SHEET: 2

