

Partition Key

existing partition to remain

existing partition to be removed

new partitions
20 gage 3 5/8" metal studs @ 24"
on center with 5/8" drywall each
side.

existing low partition to remain

Door Key

existing doors to remain

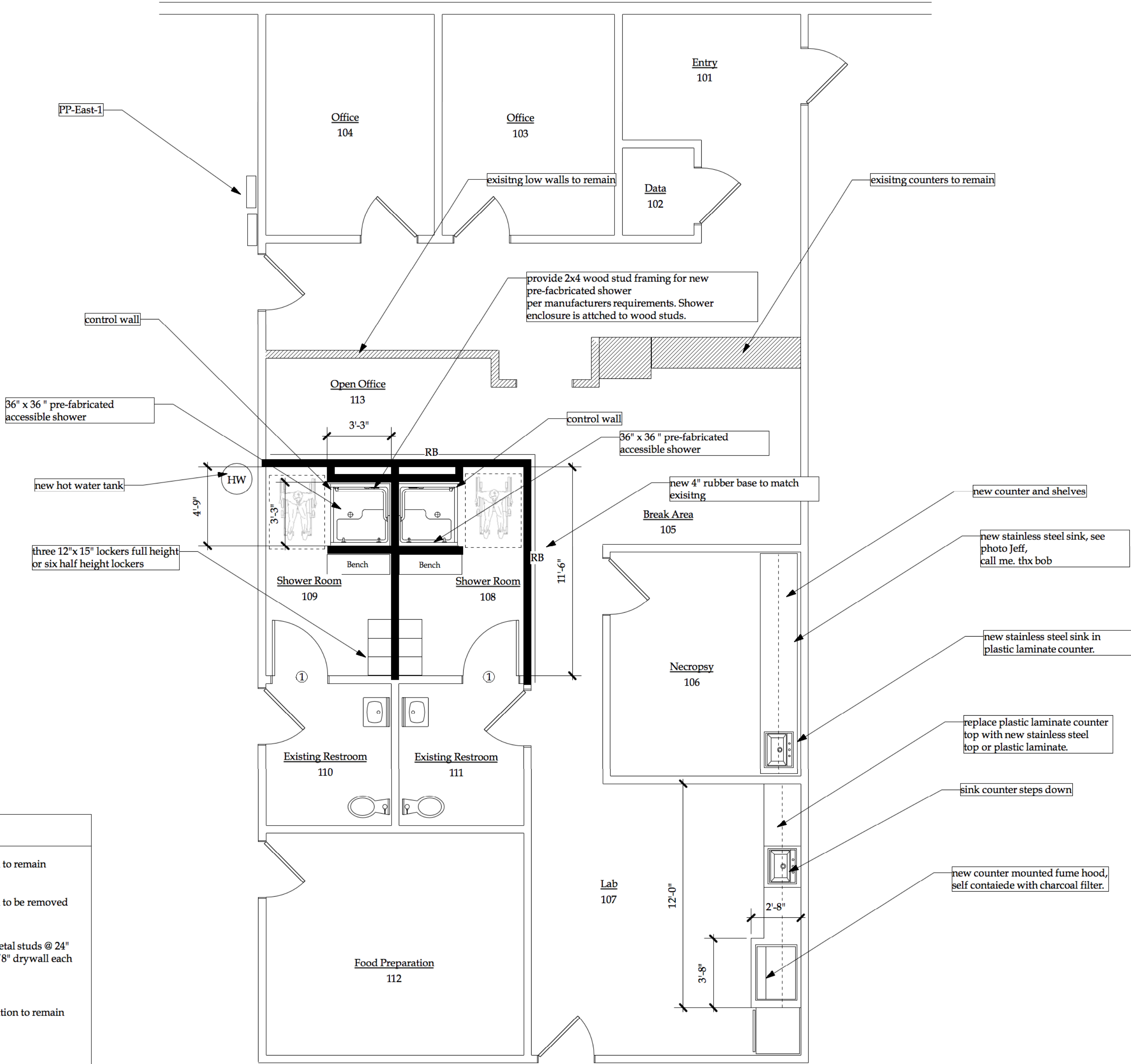
new doors

doors to be removed

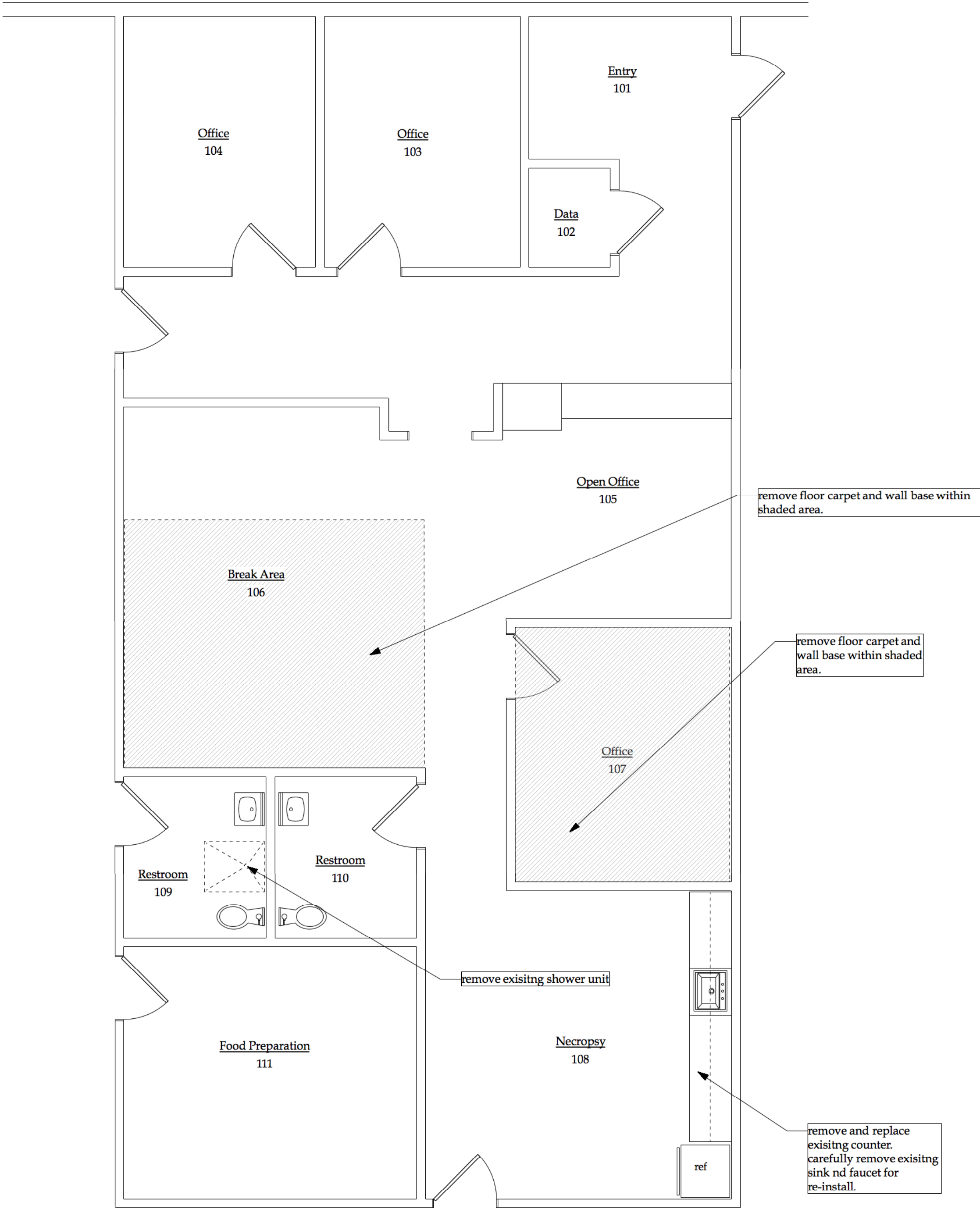
NEW DOORS

1

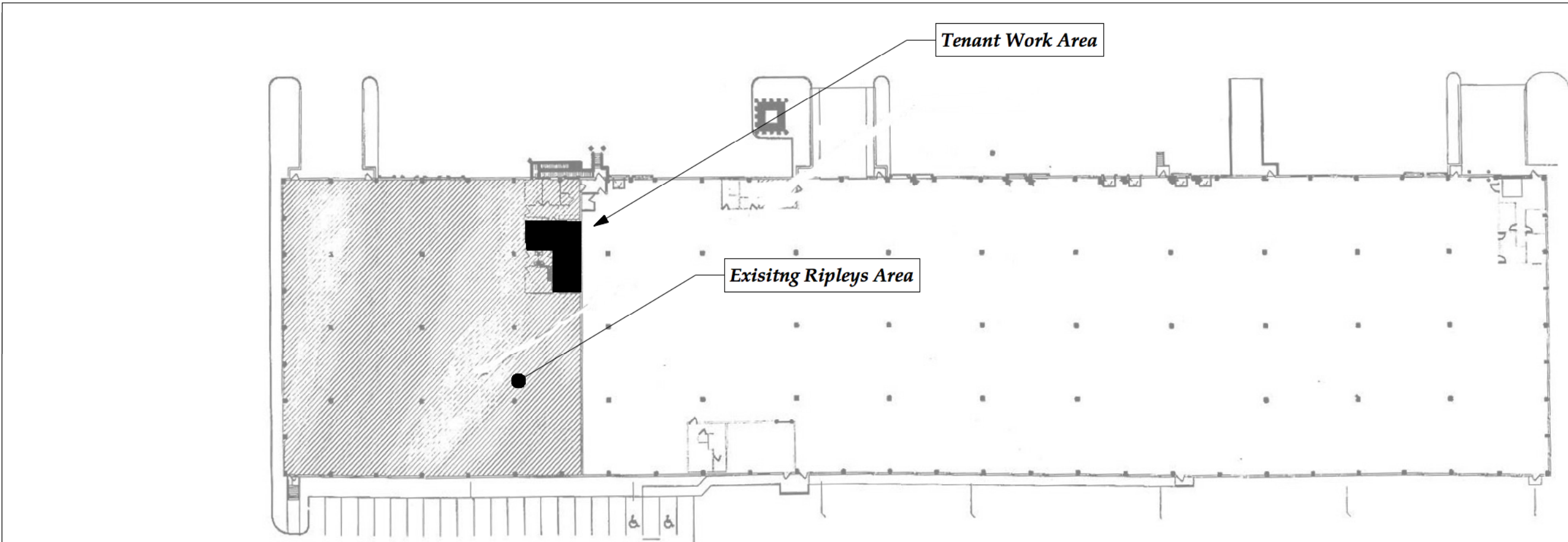
New hollow metal door 3'-0" x 7'-0" with hollow metal wrap around frame . provide privacy room lockset with accessible lever handle hardware. Hardware Finish as selected by tenant. Paint Door and Frame.



2 Proposed Floor Plan
Scale: 1/4" = 1'-0"



1 Existing & Removal Floor Plan
Scale: 1/4" = 1'-0"



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RIPLEYS TEMPORARY AQUARIUM
Interior Renovations
790 Aero Drive, Cheektowaga, NY 14225

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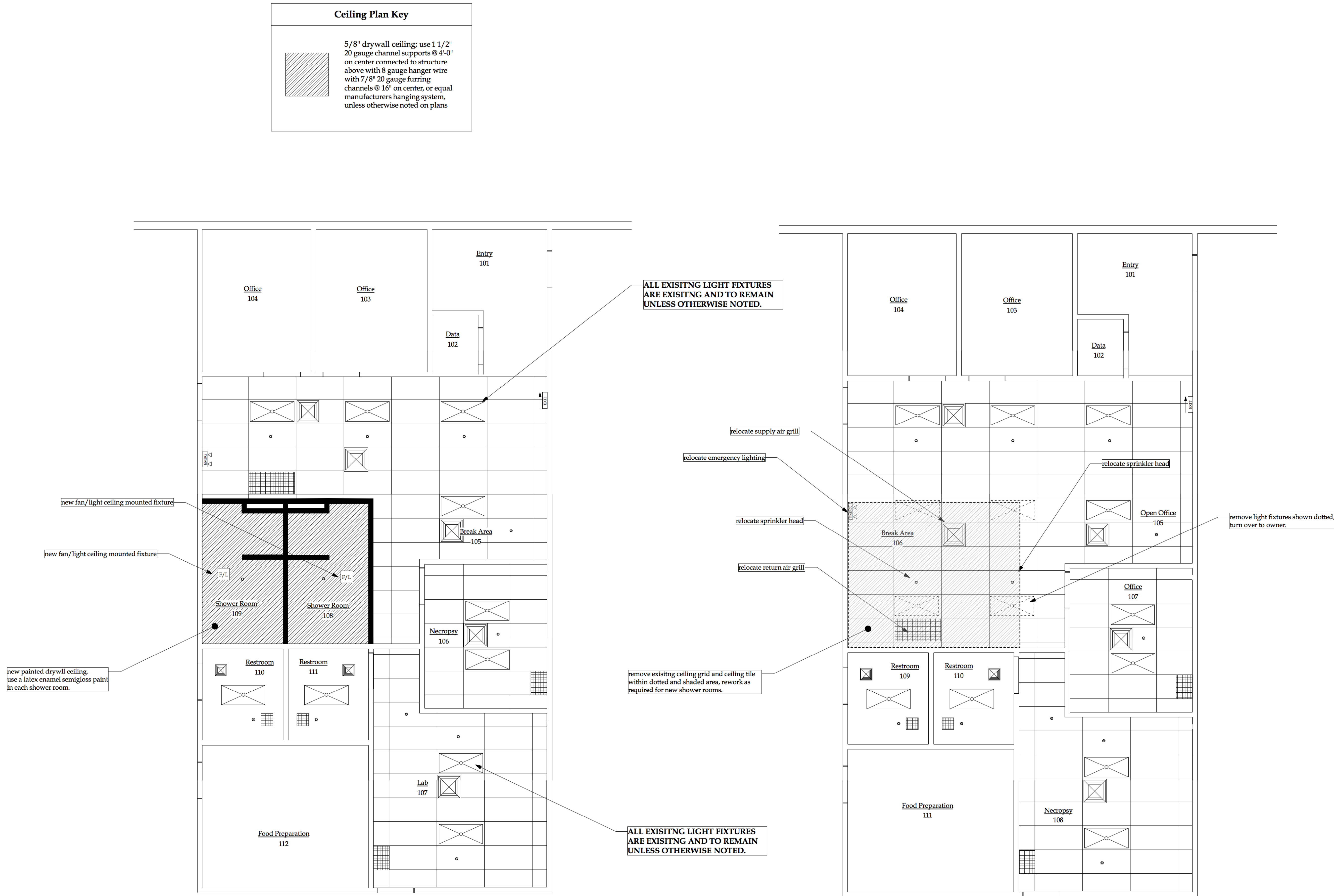
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REVISIONS		DESCRIPTION	DATE
NO			
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CONSTRUCTION
PLANS

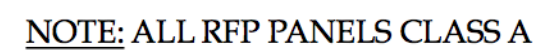
A-1

JOB NO. 19019





NOTE: ALL RFP PANELS CLASS A

[illegible][illegible]

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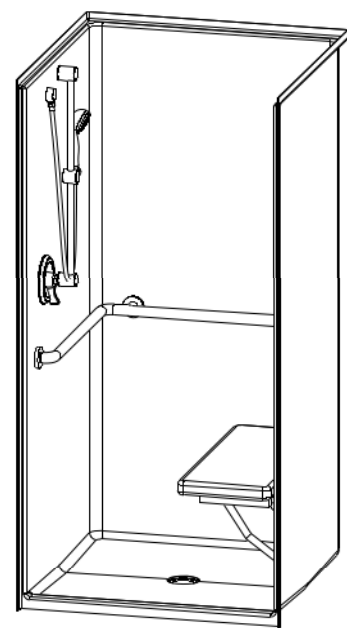
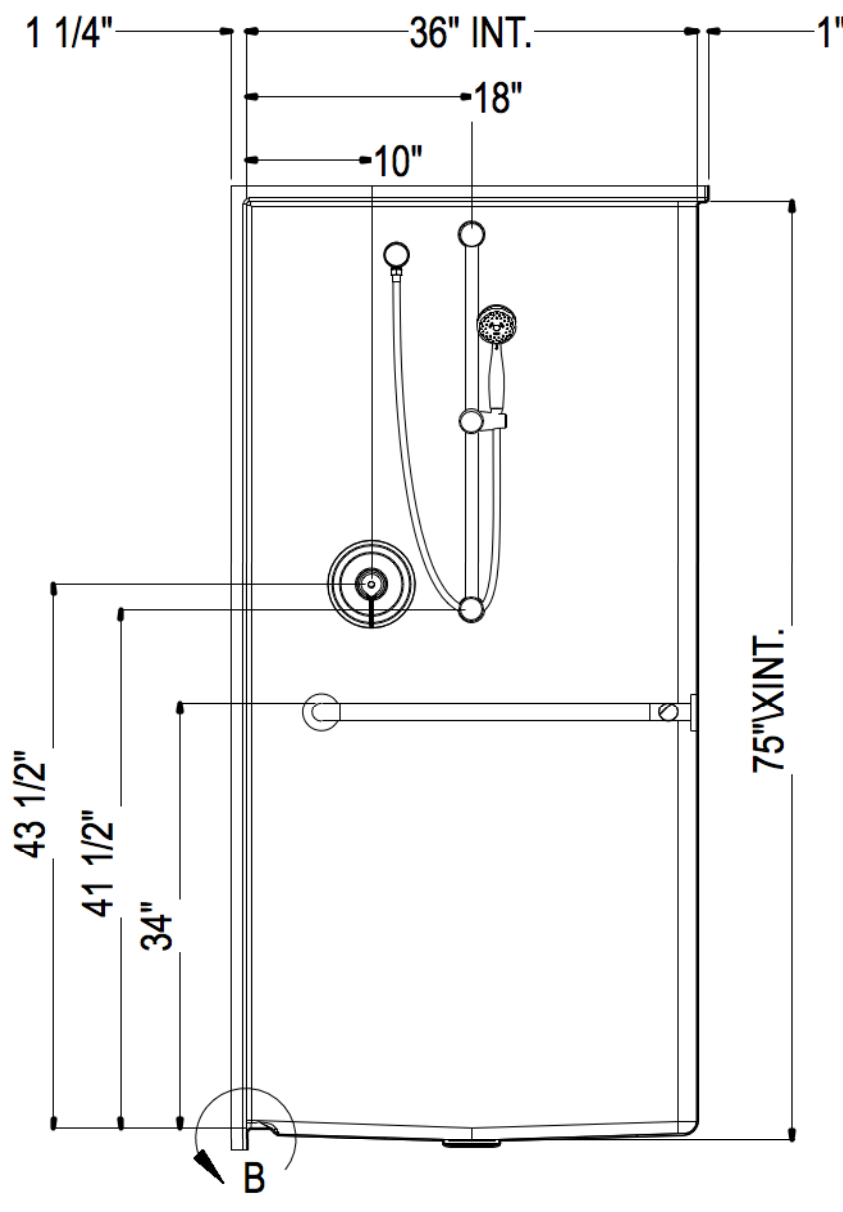
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A-3

JOB NO. 19019

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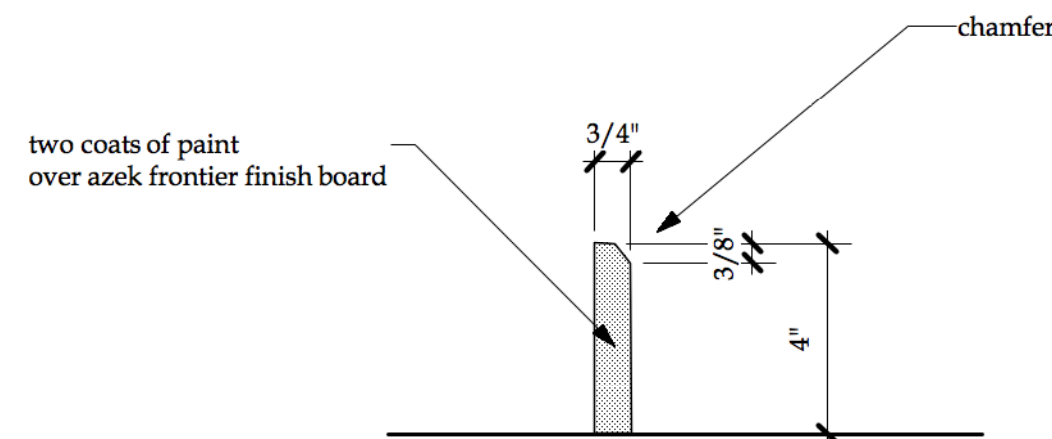
ISOMETRIC

SECTION A-A

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info

1 ADA Shower Details

Scale: NTS



2 Azek Base
Scale: 3" = 1'-0"

ROOM FINISH SCHEDULE

No.	Room Name	Floor		Base		Walls		Ceiling			Remarks
		Material	Finish	Material	Size	Material	Finish	Material	Finish	Height	
101	Entry	---	---	---	---	---	Paint	---	---	---	paint existing walls, 9'-0" ceiling height
102	Data	---	---	---	---	---	Paint	---	---	---	paint existing walls, 9'-0" ceiling height
103	Office	---	---	---	---	---	Paint	---	---	---	paint existing walls, 9'-0" ceiling height
104	Office	---	---	---	---	---	Paint	---	---	---	paint existing walls, 9'-0" ceiling height
105	Break Area	---	---	---	---	---	Paint	---	---	---	paint existing walls, 9'-0" ceiling height
106	Necropsy	RSTM	---	Rubber	4"	---	Paint	---	---	---	paint existing walls, 9'-0" ceiling height
107	Lab	---	---	---	---	---	Paint	---	---	---	paint existing walls, 9'-0" ceiling height
108	Shower Room	RSTM	---	Azek	4"	G.W.B.	FRP	G.W.B.	Paint	8'-0"	
109	Shower Room	RSTM	---	Azek	4"	G.W.B.	FRP	G.W.B.	Paint	8'-0"	
110	Existing Restroom	Carpet	---	Rubber	4"	G.W.B.	Paint	S.A.C.T.	---	---	
111	Existing Restroom	Carpet	---	Rubber	4"	G.W.B.	Paint	S.A.C.T.	---	---	
112	Food Preparation Room	Carpet	---	Rubber	4"	G.W.B.	Paint	S.A.C.T.	---	---	
113	Utility Room	Carpet	---	Rubber	4"	G.W.B.	Paint	G.W.B.	Paint	---	

G.W.B	Gypsum Wall Board
V.C.T	Vinyl Composition Tile
S.A.C.T	Suspended Acoustic Ceiling Tile
RSTM	Rustoleum AS5600 Anti-Slip Floor coating
FRP	Fiber Reinforced Wall Panel, See Elevations

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REVISIONS

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ROOM FINISH

A-4

JOB NO.

19019

PERMIT SET ☐ FINAL FOR CONSTRUCTION

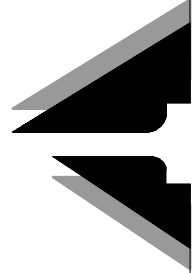
PERMIT SET

BID SET

SCHEMATIC PLANS

DOCUMENT STATUS:

DATE: September 3, 2019



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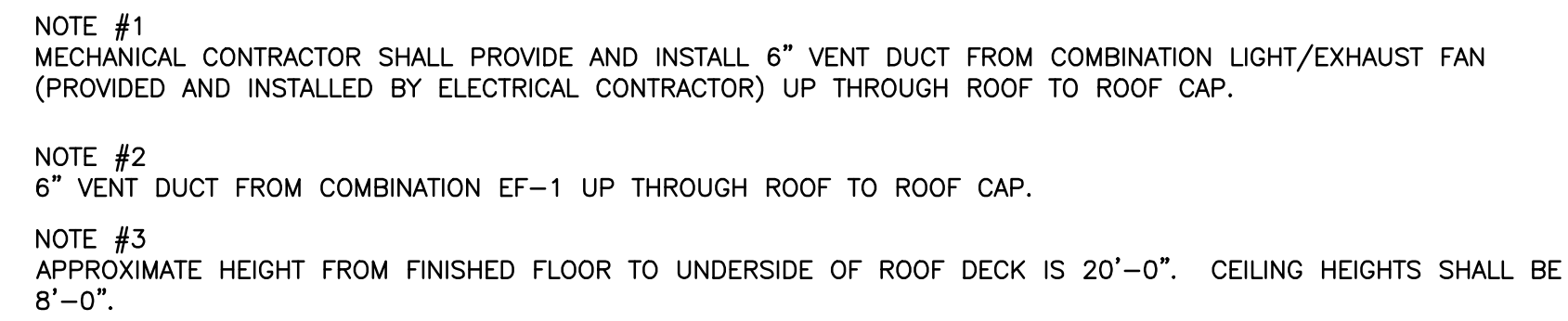
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al
DATE: September 3, 2019

M-1

19019



1 Mechanical Layout

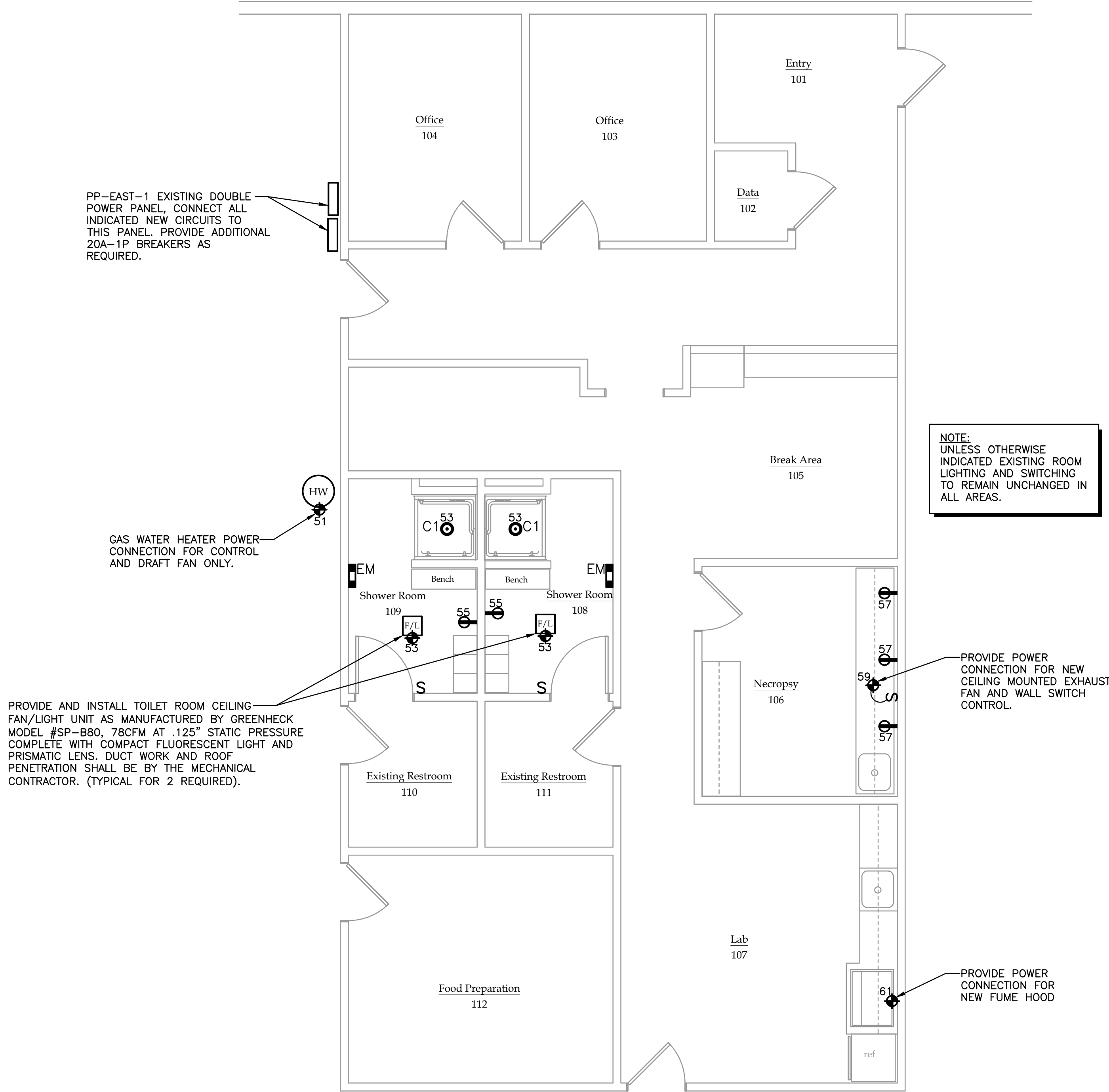
Scale: 1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MOUNTING	LENS AND DIFFUSER	VOLTAGE AND BALLAST	LAMPS	MANUFACTURER & CATALOG NO.
C1	7" DIAMETER L.E.D. DOWNLIGHT SLIM SURFACE ROUND FIXTURE WITH ALUMINUM TRIM RING.	RECESSED CEILING MOUNTED	HIGH TRANSMITTANCE	120-277 VOLT LED DRIVER TOTAL 14 WATTS INPUT	1000 LUMENS, 2700K	LIGHTOLIER/SIGNIFY MODEL #S7R927K10ALZ10U
EM	LOW PROFILE EMERGENCY LIGHT FIXTURE WITH ADJUSTABLE L.E.D. LAMP HEADS. CONNECT TO LOCAL AREA UNSWITCHED LIGHTING CIRCUIT.	SURFACE WALL	N/A	120/277 VOLTS WITH INTEGRAL BATTERY CHARGER	L.E.D. LAMPS/HEAD	BARRON LIGHTING MODEL #LED90

LIGHT FIXTURE SCHEDULE NOTES:

- ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE SUPPLY TO EACH LIGHT FIXTURE PRIOR TO INSTALLING.
- EACH LIGHT FIXTURE SHALL BE SUPPORTED INDEPENDENTLY AS REQUIRED BY CODE.
- LIGHT FIXTURES INSTALLED IN NON-ACCESSIBLE CEILING SYSTEMS (DRYWALL) SHALL BE SUPPORTED INDEPENDENT OF CEILING CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS WITH THE WORK OF OTHER TRADES INCLUDING SPRINKLER HEAD LOCATIONS AND HVAC DIFFUSER/REGISTER LOCATIONS.

ELECTRICAL SYMBOL SCHEDULE	
	POWER PANEL
	CIRCUIT NUMBER(S)
INDICATES POWER PANEL DESIGNATION AND PANEL CIRCUIT NUMBER, PROVIDE CONDUIT AND WIRE AS SPECIFIED TO THE INDICATED PANELBOARD AND CIRCUIT. ALL WIRING SO INDICATED IS MINIMUM SIZE #12 THWN COPPER IN CODE SIZED CONDUIT OR TYPE "MC" CABLE AS ALLOWED BY LOCAL AND NATIONAL CODES.	
	LIGHT FIXTURE TYPE
	CIRCUIT NUMBER
	LOWER CASE LETTER(S) LIGHT FIXTURE SWITCHING
	INDICATES A HOMERUN CIRCUIT TO POWER PANEL AND THE CIRCUIT BREAKER AS INDICATED. MINIMUM WIRE SIZE IS #12 THWN COPPER IN "EMT" CONDUIT OR TYPE "MC" ARMORED CABLE.
	INDICATES SPECIFICATION GRADE TAMPER RESISTANT NEMA 5-20R DUPLEX RECEPTACLE AS SPECIFIED. MOUNTING HEIGHT 18" A.F.F. UNLESS OTHERWISE INDICATED.
	INDICATES SPECIFICATION GRADE G.F.I. TYPE NEMA 5-20R DUPLEX RECEPTACLE AS SPECIFIED. MOUNTING HEIGHT ABOVE COUNTER OR AS OTHERWISE INDICATED. WP INDICATES WEATHERPROOF COVER REQUIRED.
	INDICATES THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL CONNECTION OF EQUIPMENT AS MAY BE REQUIRED BY THE EQUIPMENT INCLUDING CONDUIT, FITTINGS, CONNECTORS, ETC.
	INDICATES A 277 VOLT, 20 AMP RATED, SINGLE POLE WALL SWITCH AS SPECIFIED.



FLOOR PLAN : POWER AND LIGHTING

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

1. GENERAL

- A. ALL ELECTRICAL WORK IS SUBJECT TO THE GENERAL REQUIREMENTS OF THE CONTRACT.

2. INTENT

- A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, MATERIALS, SUPPLIES, EQUIPMENT, TRANSPORTATION, ETC., REQUIRED TO PLACE INTO SATISFACTORY OPERATION THE SYSTEMS DESCRIBED. THE ACCOMPANYING DRAWINGS AND THESE SPECIFICATIONS ARE SCHEMATIC ONLY. THE ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO INSTALL SYSTEMS IN THE BEST WORKMANSHIP MANNER, AND EQUAL TO ACCEPTED STATE OF THE ART PROCEDURES.

3. LAWS, CODES, PERMITS AND INSPECTIONS

- A. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE INCLUDING SUBSEQUENT AMENDMENTS.
- B. AT THE COMPLETION OF THE WORK, THE ELECTRICAL CONTRACTOR SHALL DELIVER TO THE OWNER A CERTIFICATE OF INSPECTION AND ACCEPTANCE OF THE WORK BY THE LOCAL INSPECTION AUTHORITY. A COPY OF THIS DOCUMENT SHALL BE FORWARDED TO THE ARCHITECT AND ENGINEER.

4. EXAMINATION OF PREMISES AND SITE

- A. IN SUBMITTING PROPOSALS FOR THIS WORK, EACH BIDDER WILL BE HELD RESPONSIBLE FOR HAVING PREVIOUSLY EXAMINED THE SITE AND/OR PREMISES AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE, SHOULD HE BE AWARDED THE CONTRACT TO PERFORM THE WORK. NO EXTRA COMPENSATION WILL BE ALLOWED WHERE NEW WORK IS EFFECTED BY EXISTING JOB SITE CONDITIONS.

5. GUARANTEE

- A. THE CONTRACTOR SHALL GIVE A WRITTEN GUARANTEE UPON FINAL ACCEPTANCE OF THE WORK AGAINST DEFECTIVE WORKMANSHIP, MATERIALS, OR OPERATION THAT MAY APPEAR WITHIN ONE (1) YEAR OF FINAL ACCEPTANCE BY THE OWNER. THE CONTRACTOR AGREES TO PROMPTLY CORRECT SUCH DEFECTS WITHOUT COST TO THE OWNER, ARCHITECT, OR ENGINEER.

6. SCHEDULE OF OPERATIONS

- A. THE CONTRACTOR SHALL DO ALL WORK ON AN APPROVED SCHEDULE AND IN A MANNER THAT WILL AVOID UNDUE INTERFERENCE WITH OTHER CONTRACTORS ON THIS PROJECT.

7. SUPERVISION

- A. THE CONTRACTOR SHALL PERSONALLY SUPERVISE THE WORK OR DELEGATE THE RESPONSIBILITY TO A COMPETENT SUPERINTENDENT WHOSE QUALIFICATIONS ARE ACCEPTABLE TO THE OWNER, ARCHITECT, AND ENGINEER.

8. EQUIPMENT AND MATERIALS

- A. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE NEW (UNLESS OTHERWISE SPECIFIED), LISTED BY THE UNDERWRITERS LABORATORIES, AND SHALL BE OF THE SAME MAKE WHERE USED FOR SIMILAR PURPOSES.

9. TESTS AND INSPECTIONS

- A. THE ENTIRE INSTALLATION SHALL BE KEPT FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS.

AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL CONDUCT A TWO (2) HOUR TEST WITH ALL ELECTRICAL UTILIZATION EQUIPMENT ENERGIZED. DURING THIS PERIOD A CLOSE WATCH SHALL BE KEPT ON ALL PANELS AND EQUIPMENT TO LOCATE ANY DEFECTIVE APPARATUS OR WORKMANSHIP. PARTICULAR ATTENTION SHALL BE PAID TO THE LOAD BALANCE ON THE VARIOUS PANELS AND FEEDERS. WIRING DEVICES AND APPLIANCES FOUND TO BE FUNCTIONING IMPROPERLY SHALL BE PROMPTLY REPLACED AT THE CONTRACTOR'S EXPENSE. ANY REQUIRED BALANCING OF CIRCUITS THAT BECOME APPARENT SHALL BE CARRIED OUT IMMEDIATELY.

10. MARKING AND LABELING

- A. PROVIDE ENGRAVED NAMEPLATES FOR ALL DISCONNECTS, STARTERS, PANELBOARDS, TIMERS, CABINETS, ENCLOSURES, ETC. NAMEPLATES SHALL IDENTIFY THE ASSOCIATED EQUIPMENT BEING SERVED. THE NAMEPLATE SHALL BE PLASTIC LAMINATE WITH 3/16" BLACK ENGRAVED LETTERS ON A WHITE BACKGROUND, ATTACHED USING BOLTS, NUTS, AND WASHERS.
- B. MAKE CERTAIN THAT ALL CIRCUIT BREAKERS IN ALL PANELBOARDS ARE IDENTIFIED BY ROOM NUMBER AND/OR NAME, EQUIPMENT SERVED, OR OTHER APPROPRIATE DESIGNATION. PANELS SHALL BE PROVIDED WITH DOOR MOUNTED, TYPE WRITTEN DIRECTORIES UNDER CLEAR PLASTIC.

11. INSTRUCTION

- A. THOROUGHLY INSTRUCT THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.

12. FINAL CLEANING

- A. AFTER TESTS HAVE BEEN MADE AND THE INSTALLATION HAS BEEN FOUND SATISFACTORY BY THE ENGINEER, THOROUGHLY CLEAN THE ENTIRE INSTALLATION, BOTH EXPOSED SURFACES AND INTERIORS. REMOVE ALL DEBRIS CAUSED BY THE WORK UNDER THIS CONTRACT FROM ALL SPACES INSIDE AND OUTSIDE THE BUILDING.

13. CONDUIT AND RACEWAYS

- A. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING WITH SET-SCREW FITTINGS. EMT SHALL BE DELIVERED TO THE JOB SITE IN TEN-FOOT LENGTHS AND SHALL BEAR THE U.L. LABEL AND MANUFACTURER'S NAME OR TRADEMARK.
- B. THE ELECTRICAL RACEWAY SYSTEM SHALL BE INDEPENDENTLY ATTACHED OR SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL RUN PARALLEL WITH OR PERPENDICULAR TO THE STRUCTURAL MEMBERS.
- C. SUPPORTS AND ATTACHMENTS PROVIDED SHALL BE SPECIFICALLY DESIGNED FOR THE INSTALLATION. PERFORATED HANGERS OR WIRE TIE SUPPORTS ARE NOT ACCEPTABLE.
- D. ALL RACEWAYS PASSING THROUGH A FIRE SEPARATION SHALL HAVE A FIRE RATED INSTALLATION.
- E. CONDUIT SHALL BE INSTALLED IN ORDER THAT A CONTINUOUS GROUNDING PATH IS ESTABLISHED.

14. CONDUCTORS

- A. ALL WIRE AND CABLE SHALL BE NEW, WITHIN ONE (1) YEAR OF MANUFACTURE WHEN DELIVERED TO THE JOB SITE AND BEAR THE U.L. LABEL, INSULATION TYPE, VOLTAGE RATING, AND MANUFACTURER'S NAME AT REGULAR INTERVALS ON THE INSULATION JACKET.
- B. ALL SINGLE CONDUCTOR WIRING IN RACEWAYS SHALL BE STRANDED COPPER, 600 VOLT RATED, TYPE THHN/THWN, 90°C.
- C. ALL MULTI-CONDUCTOR CABLE FOR BRANCH CIRCUIT WIRING SHALL BE TYPE "MC" ARMORED CABLE (COPPER) WITH CONTINUOUS, INSULATED GROUNDING CONDUCTOR.
- D. ALL CONTROL CABLE RUN EXPOSED IN THE CEILING SPACE FOR COMMUNICATIONS, TELEPHONE, DATA, ETC. SHALL BE TEFLON JACKETED AND BE LISTED FOR USE IN AN AIR HANDLING PLENUM.
- E. JOINTS, TAPS, AND SPLICES OF WIRE OF SIZE #10 AND SMALLER SHALL BE MADE WITH "SCOTCHLOK" TYPE SPRING CONNECTORS; SIZES #8 AND LARGER SHALL BE MADE WITH COMPRESSION CONNECTORS.

15. OUTLETS AND WIRING DEVICES

- A. BOXES AND FITTINGS FOR CONCEALED WORK SHALL BE PRESSED SHEET STEEL, CADMIUM COATED, OR ZINC GALVANIZED AS MANUFACTURED BY RACO, STEEL CITY, UNIVERSAL, OR EQUAL. IN CONCEALED WORK, INSTALL ALL BOXES SO THAT THE FRONT EDGES DO NOT PROTRUDE BEYOND THE FINISHED WALL SURFACE. OUTLET BOXES SHALL BE 4" SQUARE OR OCTAGONAL AND NOT LESS THAN 1-1/2" DEEP. IN ALL CASES THEY SHALL BE OF A SIZE AND SHAPE ESPECIALLY ADAPTED TO THE PARTICULAR USE TO WHICH THEY ARE PUT. WHERE SPACE LIMITATIONS DICTATE, 2" 4" BOXES MAY BE USED, IF OF PROPER VOLUME AS DICTATED BY THE N.E.C.
- B. RECEPTACLES SHALL BE DUPLEX GROUNDING TYPE, 20A, 120V, SPECIFICATION GRADE, WITH BRUSHED STAINLESS STEEL COVER PLATE. GROUND FAULT INTERRUPTER (GFI) AND ISOLATED GROUND (IG) TYPE RECEPTACLES SHALL BE PROVIDED IN LOCATIONS AS INDICATED. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.
- C. SWITCHES SHALL BE SINGLE POLE, THREE-WAY, OR FOUR-WAY AS INDICATED, 20A, 120-277V, SPECIFICATION GRADE, QUIET TYPE, WITH BRUSHED STAINLESS STEEL COVER. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

16. GROUNDING

- A. ALL EQUIPMENT GROUNDING CONNECTIONS SHALL BE COMPLETELY CONNECTED PRIOR TO ENERGIZING EQUIPMENT. THE ENTIRE RACEWAY SYSTEM SHALL COMPOSE A CONTINUOUS GROUND FROM THE INITIAL GROUND CONNECTION TO THE FURTHEST OUTLET.
- B. ALL RECEPTACLES SHALL HAVE A SEPARATE GROUNDING CONDUCTOR INSTALLED FROM THE GROUND TERMINAL ON THE DEVICE TO THE METALLIC BOX.
- C. ELECTRIC SERVICE GROUNDING SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE N.F.P.A. NATIONAL ELECTRIC CODE.

17. SHOP DRAWINGS AND MANUFACTURER'S DATA

- A. THE CONTRACTOR SHALL SUBMIT WITH SUCH PROMPTNESS AS TO CAUSE NO DELAY IN HIS WORK OR THAT OF OTHER CONTRACTORS. PROVIDE EIGHT (8) COPIES OF ALL SHOP DRAWINGS OR DESCRIPTIVE LITERATURE ON ALL EQUIPMENT TO BE SUPPLIED AND THE ENGINEER SHALL REVIEW THEM WITH REASONABLE PROMPTNESS.

18. AS BUILT DRAWINGS

- A. AT THE COMPLETION OF THE ELECTRICAL WORK, THE CONTRACTOR RESPONSIBLE FOR THE WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE AS-BUILT DRAWINGS.

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REVISIONS		
NO	DESCRIPTION	DATE

Electrical Spec's

E-2

JOB NO. 19019

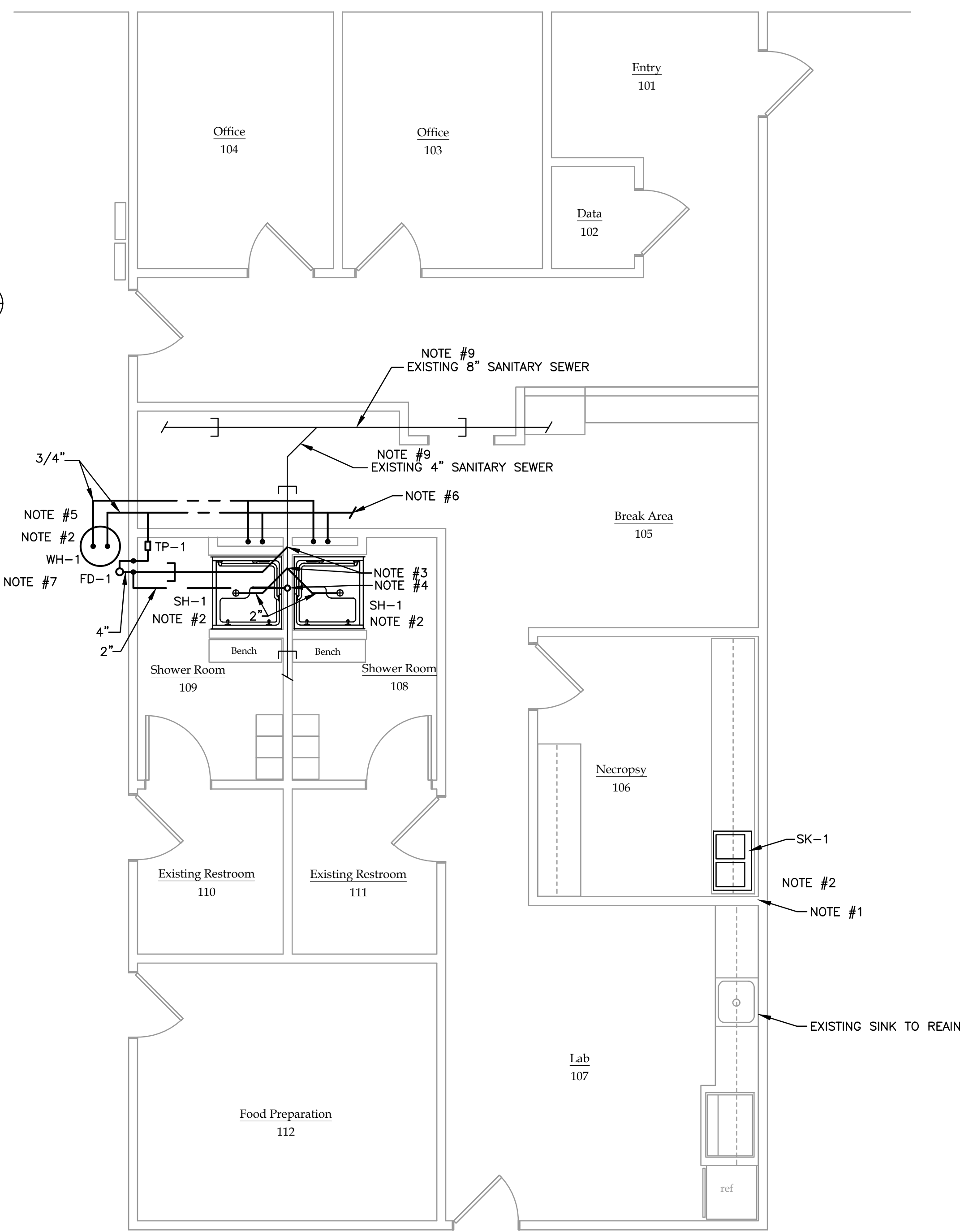
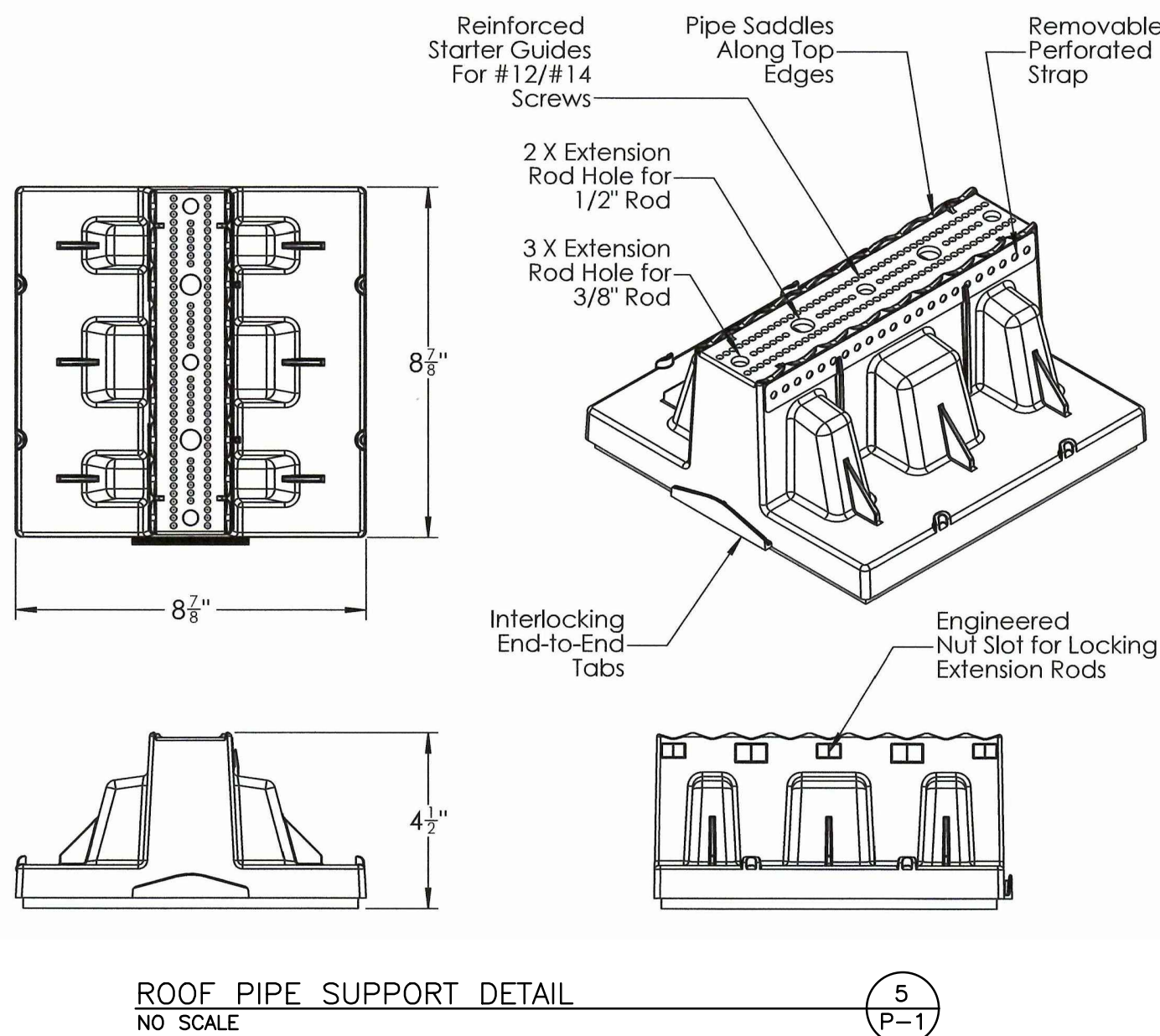
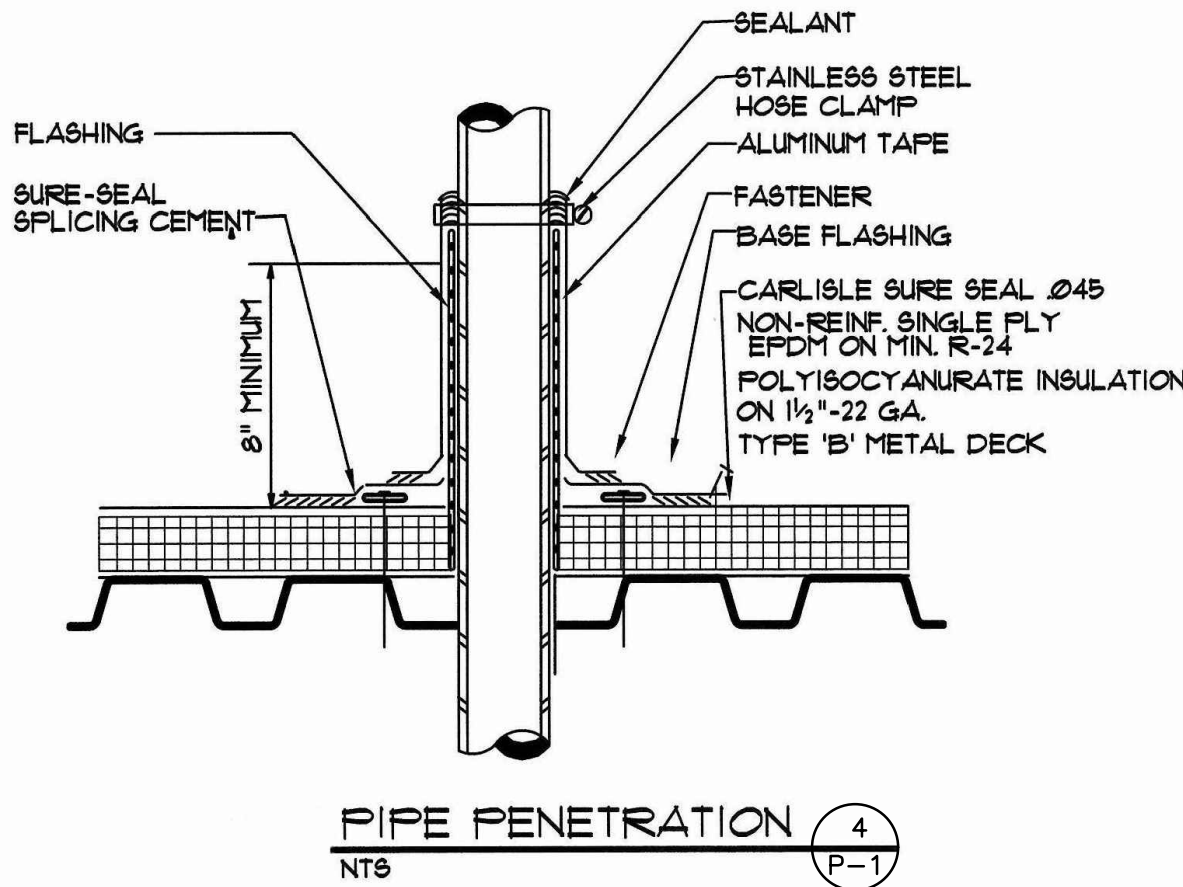
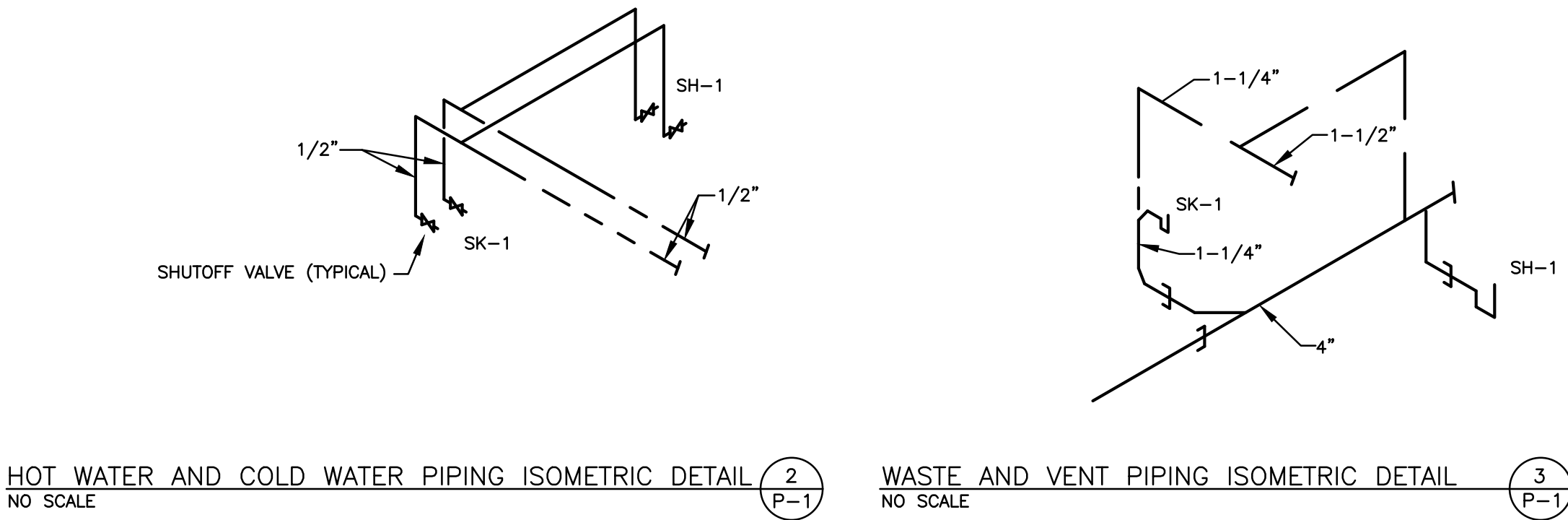
DATE: September 3, 2019

DOCUMENT STATUS: ☐ SCHEMATIC BUDGET

BUDGET PLANS

PERMIT SET

☐ FINAL FOR CONSTRUCTION



NOTE #1
PLUMBING CONTRACTOR SHALL TIE DOMESTIC HOT WATER, DOMESTIC COLD WATER, WASTE AND VENT PIPING INTO EXISTING PIPING THAT SERVES NEARBY EXISTING SINK. PLUMBING CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION, ELEVATION, SIZE, DIRECTION OF FLOW ETC. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW CUTTING, EXCAVATION, BACKFILLING, COMPACTION, AND PATCHING OF CONCRETE SLAB AS REQUIRED TO PERFORM WORK. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENING AND PATCHING OF WALLS AS REQUIRED TO PERFORM WORK.

NOTE #2
PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL SHOWERS, FLOOR DRAIN AND NATURAL GAS WATER HEATER WITHIN SPACE. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL DOMESTIC HOT WATER, COLD WATER, SANITARY AND VENT PIPING. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAWCUTTING, EXCAVATION, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE FLOOR AS REQUIRED TO PERFORM WORK.

NOTE #3
PLUMBING CONTRACTOR SHALL TIE INTO EXISTING SANITARY SEWER PIPING. FIELD VERIFY EXACT LOCATION, INVERT, DIRECTION OF FLOW, PIPING MATERIAL ETC. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW CUTTING, EXCAVATION, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE FLOOR AS REQUIRED TO PERFORM WORK.

NOTE #4
3" VENT THROUGH ROOF.

NOTE #5
PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE VENT AND COMBUSTION AIR INTAKE PIPING FOR WH-1.

NOTE #6
PLUMBING CONTRACTOR SHALL TIE ONTO EXISTING DOMESTIC COLD WATER PIPING. FIELD VERIFY EXACT LOCATION, ELEVATION, DIRECTION OF FLOW, PIPING MATERIAL ETC.

NOTE #7
PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL NATURAL GAS PIPING FOR WATER HEATER WH-1. PLUMBING CONTRACTOR SHALL FIELD VERIFY LOCATION OF TIE IN AND ROUTING OF PIPING THROUGH EXISTING SPACE. PIPE SIZE SHALL BE AS PER FUEL GAS CODE OF NEW YORK STATE.

NOTE #8
APPROXIMATE HEIGHT FROM FINISHED FLOOR TO UNDERSIDE OF ROOF DECK IS 20'-0". CEILING HEIGHTS SHALL BE 8'-0".

NOTE #9
VERIFY EXISTING SANITARY SEWER LINE IN FIELD.

PLUMBING SPECIFICATIONS

1. GENERAL
- A. ALL PLUMBING WORK IS SUBJECT TO THE GENERAL REQUIREMENTS OF THE CONTRACT. ALL ARTICLES EITHER SHOWN ON THE PLANS OR MENTIONED IN THE SPECIFICATIONS, TOGETHER WITH ALL NECESSARY FOR OR INCIDENTAL TO THE COMPLETION OF THE WORK, SHALL BE FURNISHED AND INSTALLED BY THE RESPECTIVE PLUMBING CONTRACTOR, UNLESS OTHERWISE STATED. ALL ADJUSTMENTS SHALL BE MADE AND SYSTEM TURNED OVER TO THE OWNER IN PERFECT WORKING ORDER.
2. INTENT
- A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT THE PLUMBING CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, MATERIALS, SUPPLIES, EQUIPMENT, TRANSPORTATION, ETC., REQUIRED TO PLACE INTO SATISFACTORY OPERATION THE SYSTEMS DESCRIBED. THE ACCOMPANYING DRAWINGS AND THESE SPECIFICATIONS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR SHALL BE REQUIRED TO INSTALL SYSTEMS IN THE BEST WORKMANSHIP MANNER, AND EQUAL TO ACCEPTED STATE OF THE ART PROCEDURES. RUNS ARE SHOWN AS DIAGRAMS AND MAY BE MODIFIED BUT THE GENERAL AGREEMENT SHALL BE AS SHOWN. DEVIATIONS FROM THE ARRANGEMENT SHOWN MUST HAVE THE APPROVAL OF THE ARCHITECT. ARRANGE IN A NEAT MANNER FOR ACCESS TO OTHER WORK INSTALLED BY OTHER TRADES. ALL PIPE AND DUCTS TO BE CONCEALED IN WALLS AND CEILING EXCEPT WHERE OTHERWISE NOTED.
3. LAWS, CODES, PERMITS AND INSPECTIONS
- A. FILE ALL PLANS AND PAY FOR NECESSARY PERMITS AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THIS WORK.
- B. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, ENERGY CONSERVATION AND LOCAL CODES AND ORDINANCES. THIS SHALL INCLUDE ANY SERVICE COMPANY RULES, REGULATIONS OR ORDINANCES HAVING JURISDICTION OVER THIS WORK. THESE CODES SHALL SUPERSEDE THE SPECIFICATIONS AND DRAWINGS.
- C. AT THE COMPLETION OF THE WORK, THE PLUMBING CONTRACTOR SHALL DELIVER TO THE OWNER A CERTIFICATE OF INSPECTION AND ACCEPTANCE OF THE WORK BY THE LOCAL INSPECTION AUTHORITY. A COPY OF THIS DOCUMENT SHALL BE FORWARDED TO THE ARCHITECT AND ENGINEER.
4. EXAMINATION OF PREMISES AND SITE
- A. IN SUBMITTING PROPOSALS FOR THIS WORK, EACH BIDDER WILL BE HELD RESPONSIBLE FOR HAVING PREVIOUSLY EXAMINED THE SITE AND/OR PREMISES AND SATISFIED HIMSELF AS TO THE CONDITIONS UNDER WHICH HE WILL BE OBLIGED TO OPERATE, SHOULD HE BE AWARDED THE CONTRACT TO PERFORM THE WORK. NO EXTRA COMPENSATION WILL BE ALLOWED WHERE NEW WORK IS EFFECTED BY EXISTING JOB SITE CONDITIONS.
5. GUARANTEE
- A. THE CONTRACTOR SHALL GIVE A WRITTEN GUARANTEE UPON FINAL ACCEPTANCE OF THE WORK AGAINST DEFECTIVE WORKMANSHIP, MATERIALS, OR OPERATION THAT MAY APPEAR WITHIN ONE (1) YEAR OF FINAL ACCEPTANCE BY THE OWNER. THE CONTRACTOR AGREES TO PROMPTLY CORRECT SUCH DEFECTS WITHOUT COST TO THE OWNER, ARCHITECT, OR ENGINEER.
6. SCHEDULE OF OPERATIONS
- A. THE CONTRACTOR SHALL DO ALL WORK ON AN APPROVED SCHEDULE AND IN A MANNER THAT WILL AVOID UNDUE INTERFERENCE WITH OTHER CONTRACTORS ON THIS PROJECT.
7. SUPERVISION
- A. THE CONTRACTOR SHALL PERSONALLY SUPERVISE THE WORK OR DELEGATE THE RESPONSIBILITY TO A COMPETENT SUPERINTENDENT WHOSE QUALIFICATIONS ARE ACCEPTABLE TO THE OWNER, ARCHITECT, AND ENGINEER.
8. EQUIPMENT AND MATERIALS
- A. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT SHALL BE NEW (UNLESS OTHERWISE SPECIFIED), LISTED BY THE UNDERWRITERS LABORATORIES, AND SHALL BE OF THE SAME MAKE WHERE USED FOR SIMILAR PURPOSES.
9. MARKING AND LABELING
- A. PROVIDE ENGRAVED NAMEPLATES FOR ALL PLUMBING EQUIPMENT AS WELL AS PLASTIC PIPE MARKERS TO IDENTIFY ALL PIPING SYSTEMS FOR THIS PROJECT.
10. INSTRUCTION
- A. THOROUGHLY INSTRUCT THE OWNER'S REPRESENTATIVE IN THE PROPER OPERATION OF ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.
11. FINAL CLEANING
- A. AFTER TESTS HAVE BEEN MADE AND THE INSTALLATION HAS BEEN FOUND SATISFACTORY BY THE ENGINEER, THOROUGHLY CLEAN THE ENTIRE INSTALLATION, BOTH EXPOSED SURFACES AND INTERIORS. REMOVE ALL DEBRIS CAUSED BY THE WORK UNDER THIS CONTRACT FROM ALL SPACES INSIDE AND OUTSIDE THE BUILDING. AT COMPLETION OF WORK, CLEAN ALL FIXTURES AND METAL WORK AND LEAVE IN POLISHED CONDITION.
12. PLUMBING PIPING
- A. BELOW GRADE DOMESTIC WATER PIPING AND FITTINGS SHALL BE TYPE "K" COPPER WITH 95/5 SOLDER JOINT.
- B. ABOVE GRADE DOMESTIC WATER PIPING AND FITTINGS SHALL BE TYPE "L" COPPER WITH 95/5 SOLDER JOINT.
- NOTE : PEX PIPING OF ANY KIND IS NOT ALLOWED ON THIS PROJECT.
- C. BELOW GRADE SANITARY SEWER, VENT PIPING AND FITTINGS SHALL BE PVC SCHEDULE 40.
- D. ABOVE GRADE SANITARY SEWER, VENT PIPING AND FITTINGS SHALL BE SERVICE WEIGHT CAST IRON HUBLESS WITH STAINLESS STEEL COUPLINGS AND OR TYPE "DWV" COPPER WITH 95/5 SOLDER JOINTS..
- E. ABOVE GRADE NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE. FITTINGS SHALL BE MALLEABLE IRON OR FORGED STEEL WELDING TYPE. JOINTS SHALL BE NFPA THREADED OR WELDED.
13. PLUMBING PIPING INSULATION
- A. LOCATION – COLD WATER PIPING AND HOT WATER (EXCEPT CHROME PLATED IN FINISH ROOMS)
- B. MAKE – OWENS–CORNING, CERTAINTeed ST. GOBAIN, KEENA
- C. TYPE – FIBERGLASS 25 ASJ (ALL SERVICE JACKET) GLASS FIBER ON ALL CONCEALED AND EXPOSED PIPING. GLASS FIBER SHALL BE HEAVY DENSITY RIGID FIBER MOLDED SNAP ON SECTIONS.
- D. APPLICATION – ALL SEAMS, LAPS AND END JOINTS ON GLASS FIBER WILL BE SEALED BY SELF–SEALING LAP ON JACKET OR JOINT SEALING STRIPS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE STAPLES ARE USED, THEY SHALL BE SEALED WITH BENJAMIN FOSTER 30–36 MASTIC.
- E. FITTINGS – INCLUDE VALVES, FLANGES AND ALL OTHER PIPING COMPONENTS INSULATED WITH GLASS FIBER. INSUL–SURE MOLDED FIBERGLASS FITTINGS OR FABRICATED MITERED SEGMENTS SHALL BE COVERED WITH 1/4" COAT HARD SETTING FINISH CEMENT. ALL FITTING SHALL BE COVERED WITH GLASS FIBER LAGGING CLOTH EMBEDDED INTO BENJAMIN–FOSTER 30–35 MASTIC AND GIVEN FLOODING BRUSH COAT OF MASTIC OR ZESTIN'S ONE PIECE PREMOLDED INSULATED FITTINGS WITH JOINTS SEALED WITH Z–TAPE, PER MANUFACTURER'S RECOMMENDATIONS.
- F. SIZE : HOT WATER – 1" THICK FIBER GLASS, COLD WATER – 1/2" THICK FIBER GLASS.

14. SHOP DRAWINGS AND MANUFACTURER'S DATA
- A. THE CONTRACTOR SHALL SUBMIT WITH SUCH PROMPTNESS AS TO CAUSE NO DELAY IN HIS WORK OR THAT OF OTHER CONTRACTORS. PROVIDE EIGHT (8) COPIES OF ALL SHOP DRAWINGS OR DESCRIPTIVE LITERATURE ON ALL EQUIPMENT TO BE SUPPLIED AND THE ENGINEER SHALL REVIEW THEM WITH REASONABLE PROMPTNESS.
15. AS BUILT DRAWINGS
- A. AT THE COMPLETION OF THE PLUMBING WORK, THE CONTRACTOR RESPONSIBLE FOR THE WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE AS–BUILT DRAWINGS.
16. EXCAVATION
- A. DO ALL EXCAVATION REQUIRED FOR THE INSTALLATION WORK IN THIS CONTRACT. EXCAVATION TO PROVIDE SUFFICIENT CLEARANCE FOR INSTALLATION OF WORK AND TO BE KEPT FREE OF WATER.
17. BACK FILLING
- A. BACK FILL IMMEDIATELY UPON INSPECTION TEST AND APPROVAL BY LOCAL AUTHORITIES AND ARCHITECT. NO CINDERS OR OTHER CORROSIVE MATERIAL WILL BE PERMITTED. FILL MUST BE WELL TAMPED AND PUDDLED FOR GREATEST POSSIBLE SETTLEMENT. NO ROCK OR FROZEN GROUND SHALL BE USED.
18. PLUMBING FIXTURES
- A. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED IN SETTING FIXTURES AND ALL ROUGHING TO BE CENTERED. NO PLASTER OF PARIS SHALL BE USED. WALL HUNG FIXTURES, WHERE SPECIFIED, TO BE SUPPORTED BY A CONCEALED CHAIR–TYPE CARRIER OR FOOT SUPPORT BEARING ON THE FLOOR AND TO BE SECURED TO WALL IN ACCORDANCE WITH THE CARRIER MANUFACTURER'S DETAILS AND SPECIFICATIONS. ALL FIXTURES INDICATED ON DRAWINGS OR MENTIONED IN SPECIFICATIONS SHALL BE PROPERLY DRAINED. VENTED AND SUPPLIED WITH COLD AND/OR HOT WATER AS REQUIRED ACCORDING TO LOCAL CODE, WHETHER THESE CONNECTIONS ARE SPECIFICALLY SHOWN OR CALLED FOR OR NOT. PLUMBING CONTRACTOR TO PROVIDE BACKING FOR FIXTURES ON INTERIOR WALL.
19. CHROMIUM WORK
- A. ALL FITTINGS AND EXPOSED PIPE, SCREWS, NUTS, WASHERS, WALL PLATES, RIM GUARDS, ETC. CHROMIUM PLATED BRASS, TEFLON TAPE TO BE USED ON ALL SCREWED JOINTS FOR CHROMIUM PIPE.

MARK	FIXTURE AND TYPE	DRAINAGE		DOMESTIC WATER			MARK
		SAN	VENT	DCW	DHW	DTW	
SH–1	SHOWER (ADA) COLOR SHALL BE WHITE.	1–1/2"	1–1/2"	1/2"	1/2"		SHOWER MANUFACTURE : AQUATIC (ADA), MODEL : 1363BFC2P, SHOWER SHALL BE FULLY EQUIPPED WITH 1–1/2" DIAMETER STAINLESS STEEL L–SHAPED GRAB BAR" 1–1/2" DIAMETER X 18" VERTICAL GRAB BAR; WHITE CUSHIONED, L–SHAPED FOLD UP SEAT; PRESSURE BALANCING MIXING VALVE AND HAND–HELD SHOWER ASSEMBLY. (INSTALLED OPPOSITE SIDE OF SEAT). SHOWER SHALL COME WITH AND BE INSTALLED WITH THE FOLLOWING ACCESSORIES : SOAP DISH, CURTAIN ROD, SHOWER CURTAIN, VINYL FLEXIBLE DAM, REMOVABLE THRESHOLD AND BRASS DRAIN. ONE SHOWER WILL BE LEFT HAND CONFIGURATION, THE OTHER SHOWER SHALL BE RIGHT HAND CONFIGURATION.
SK–1	DOUBLE BOWL SINK (ADA)	1–1/2"	1–1/2"	1/2"	1/2"		SINK MANUFACTURE : ELKAY (ADA), MODEL : LRAD332155. ELKAY MODEL LK35, 3–1/2" DRAIN FITTING TYPE 304 STAINLESS STEEL BODY, STRAINER AND TAILPIECE. FAUCET MANUFACTURE : ELKAY (ADA), MODEL LKD2433C.
WH–1	NATURAL GAS WATER HEATER			1/2"	1/2"		MANUFACTURE : A.O. SMITH, MODEL : GPVL–40, 40 GALLON, 40,000 BTUH INPUT.
TP–1	TRAP PRIMER • TO FLOOR DRAIN			1/2"			MANUFACTURE: MIFAB, MODEL:MI–DU, 1/2" BRONZE TRAP PRIMER VALVE WITH VACUUM BREAKER.
FD–1	FLOOR DRAIN	4"	2"	3/8"			MANUFACTURE: MIFAB, MODEL:F1100–C–S, SQUARE DRAIN, CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, SATIN FINISHED NICKEL BRONZE STRAINER.

- NOTES
1. ROUGH ACCORDING TO ABOVE SCHEDULE UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE PLUMBING INSTALLATION AS SPECIFIED IN SPECIFICATIONS ON DRAWINGS.
3. REFER TO SPECIFICATIONS ON DRAWING FOR ADDITIONAL PLUMBING EQUIPMENT AND INFORMATION.
4. COORDINATE PLUMBING FIXTURE MANUFACTURER WITH BUILDING OWNER. (PROVIDE SPECIFIED OR EQUAL EQUIPMENT