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GENERAL NOTES

- A PLUMBING PLANS ARE GENERALIZED AS TO THE OVERALL INTENT OF THE PLUMBING WORK REQUIRED FOR NEW CONSTRUCTION INCLUDING PLUMBING FIXTURES, HANGERS AND SUPPORTS, PIPING, EQUIPMENT, ETC.
- B ALL INFORMATION IS BASED ON EXISTING AS-BUILT DESIGN DRAWINGS, SO IT IS ENTIRELY POSSIBLE THAT EXISTING PIPING, FIXTURES, AND EQUIPMENT LOCATIONS AND ROUTINGS MAY NOT BE ENTIRELY ACCURATE. CONTRACTOR SHALL DO THEIR OWN SITE VISIT PRIOR TO BIDDING TO VERIFY EXISTING FIELD CONDITIONS.
- C PLUMBING CONTRACTOR SHALL COORDINATE ALL CUTTING, REMOVAL, REPLACEMENT, AND PATCHING OF FLOOR SLAB, WALLS, CEILINGS, ETC. TO ACCOMMODATE NEW CONSTRUCTION.

KEYED NOTES

- 1 REMOVE EXISTING CLEAN-OUT AND CONNECT NEW 4" SANITARY SEWER PIPING BELOW GRADE FOR NEW PLUMBING WORK REQUIRED FOR NEW FIXTURE INSTALLATIONS. FIELD VERIFY SIZE, LOCATION, AND INVERT.
- 2 CONNECT NEW 4" OR 3" SANITARY SEWER PIPING TO EXISTING 4" SANITARY SEWER PIPING BELOW GRADE FOR NEW PLUMBING WORK REQUIRED FOR NEW FIXTURE INSTALLATIONS. FIELD VERIFY SIZE, LOCATION, AND INVERTS.
- 3 CONNECT NEW 4" VENT TO EXISTING 4" VENT RISER UP THRU ROOF.



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PROJECT TITLE

**ROOSEVELT COUNTY
FAIRGROUNDS
PAVILLION
MULTI PURPOSE**

**PORTALES
NEW MEXICO**

REVISIONS:

MK	DATE	DESCRIPTION

DRAWN BY: HRM
CHECKED BY: PS

PROJECT NUMBER:
A1816.23

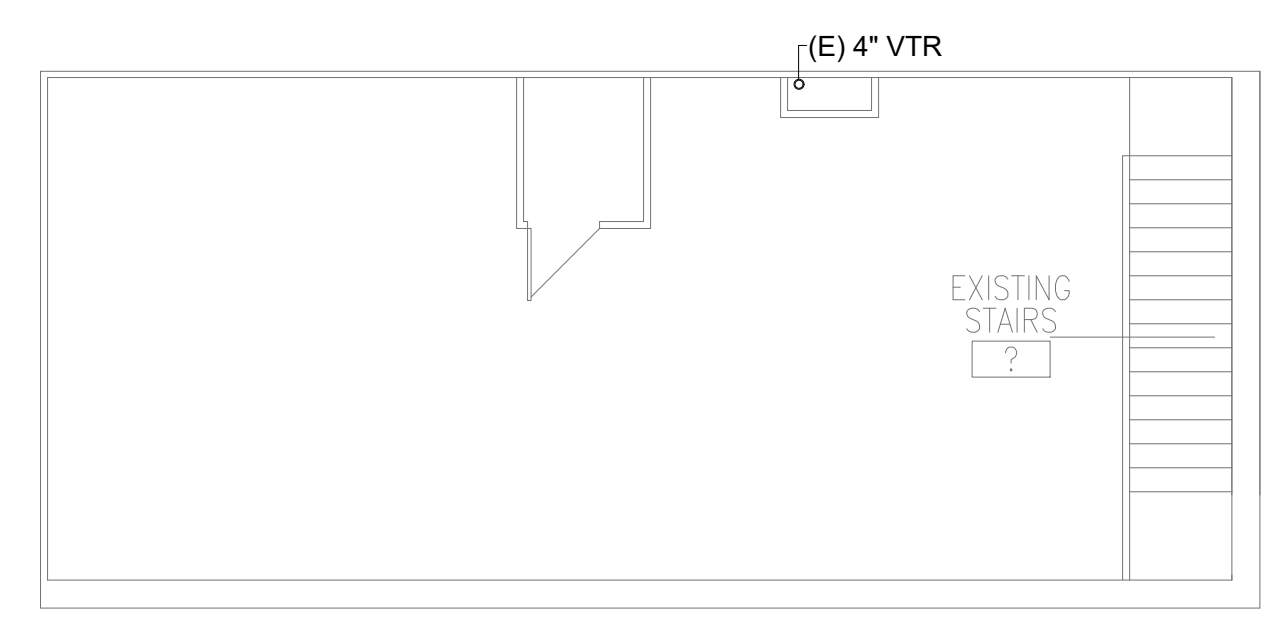
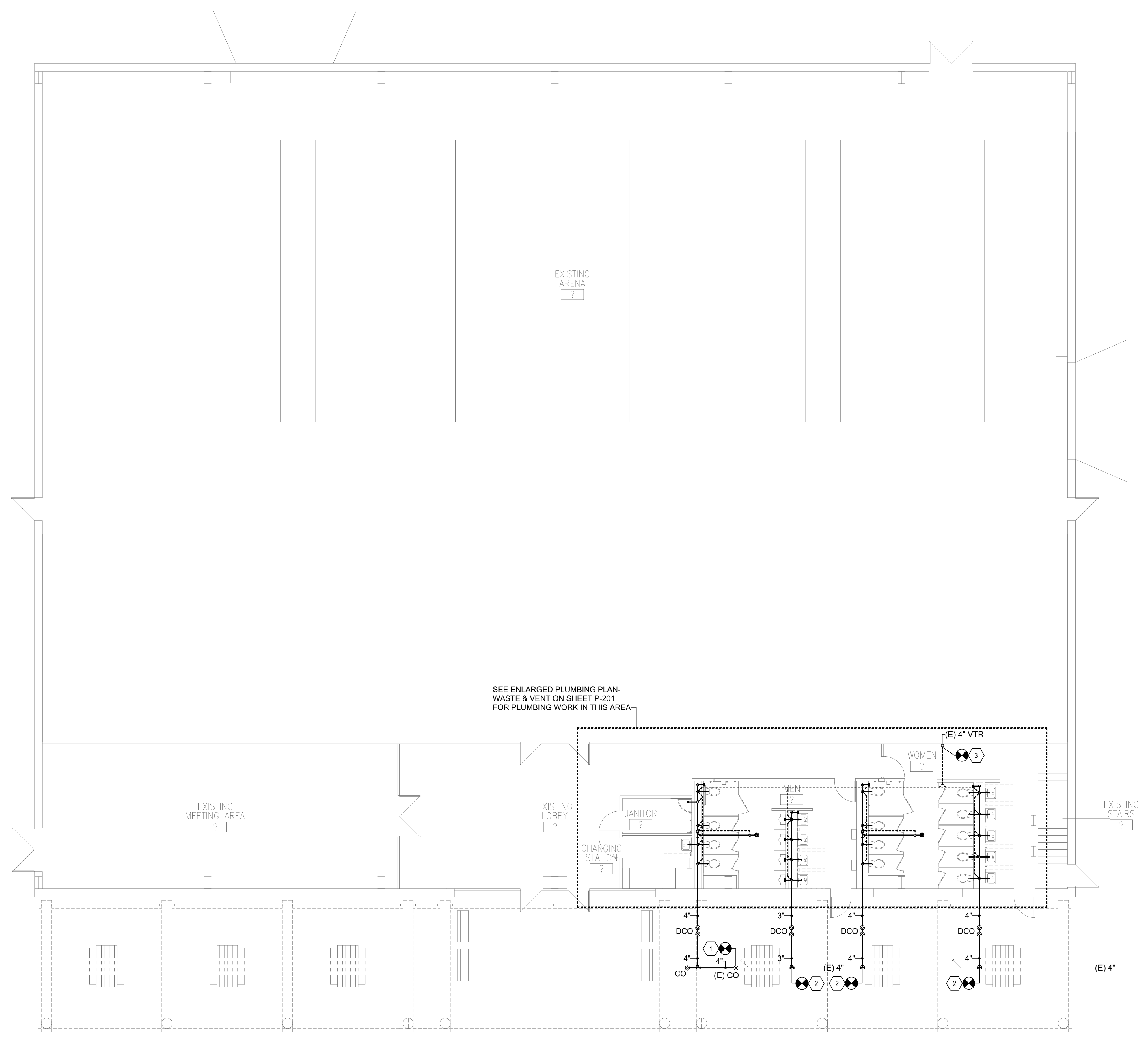
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04/05/24

SHEET TITLE:

**PLUMBING
FLOOR PLANS -
WASTE & VENT**

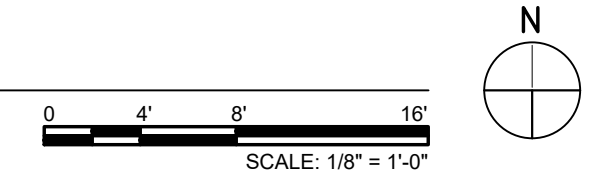
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P-101



A1 PLUMBING FIRST FLOOR PLAN – WASTE & VENT

A4 PLUMBING SECOND FLOOR PLAN



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- C PLUMBING CONTRACTOR SHALL COORDINATE ALL CUTTING, REMOVAL, REPLACEMENT, AND PATCHING OF FLOOR SLAB, WALLS, CEILINGS, ETC. TO ACCOMMODATE NEW CONSTRUCTION.

KEYED NOTES

- 1 CUT INTO EXISTING 2" WATER SUPPLY PIPING BELOW GRADE AND REROUTE TO NEW HOT BOX (HBX-1) AND BACKFLOW PREVENTER (RPBP-1). FIELD VERIFY SIZE AND LOCATION.
- 2 INSTALL NEW PRESSURE REDUCING VALVE (PRV-1) IN CHASE WITH 12"x12" ACCESS PANEL (LOCKABLE).
- 3 CONNECT NEW 2" GAS PIPING TO EXISTING 2" GAS PIPING AND ROUTE TO NEW TANKLESS WATER HEATER (TWH-1).
- 4 ROUTE 4" VENT AND 4" INTAKE TO CONCENTRIC VENT THRU ROOF.



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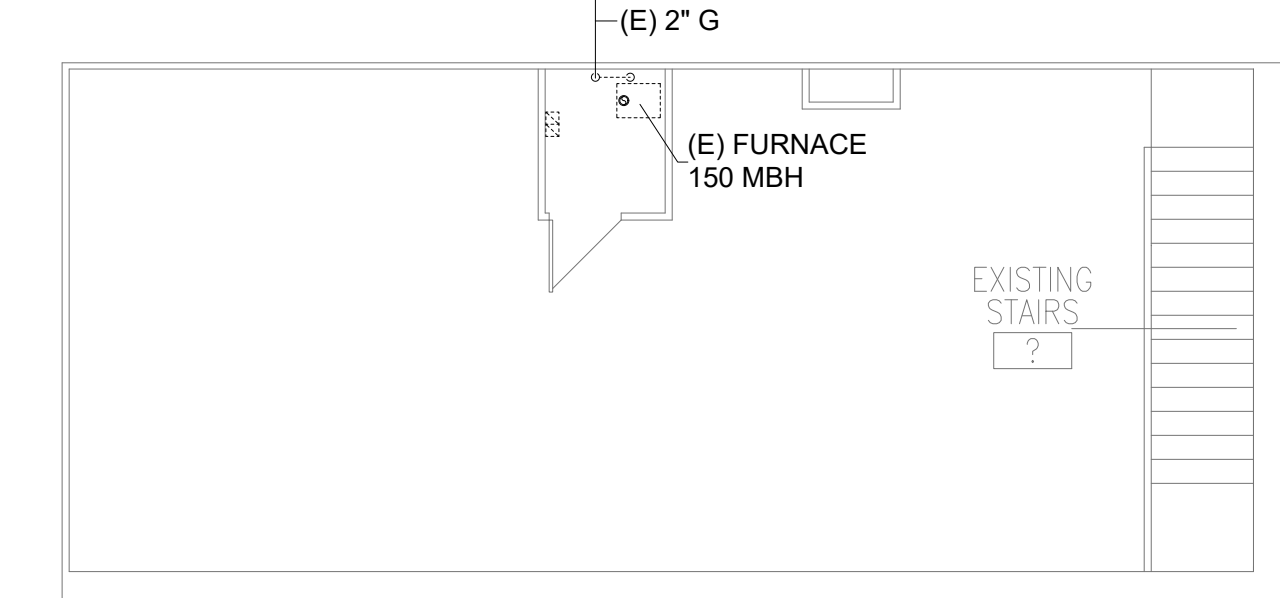
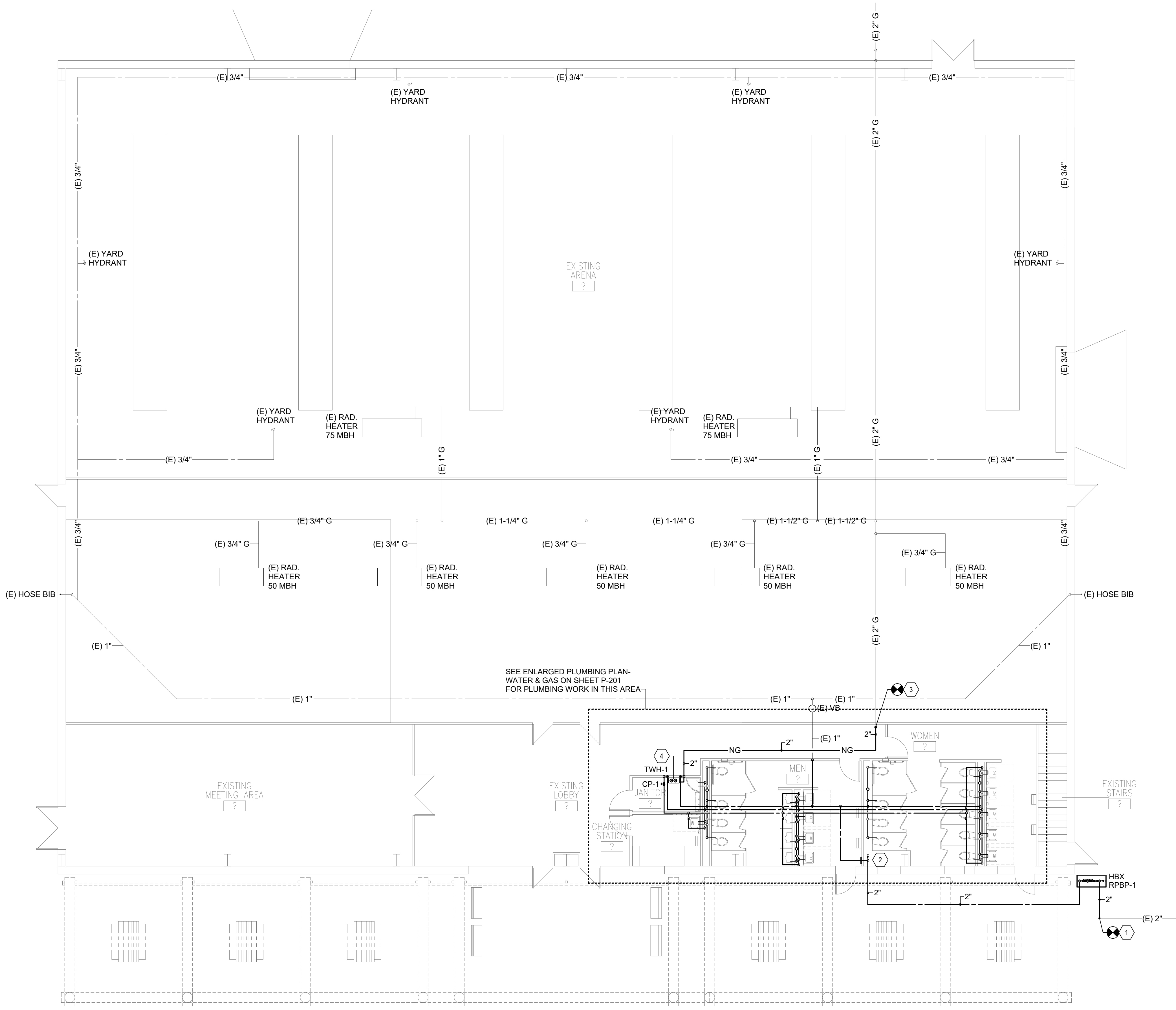
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**PLUMBING
FLOOR PLANS -
WATER & GAS**

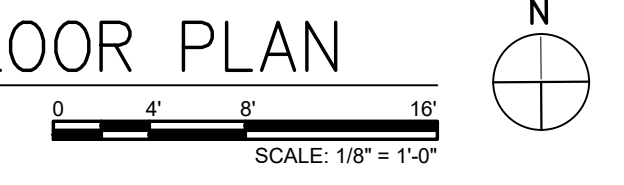
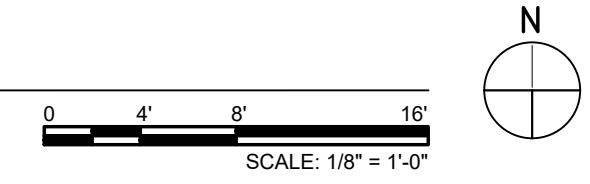
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P-102



A1 PLUMBING FIRST FLOOR PLAN - WATER & GAS

A4 PLUMBING SECOND FLOOR PLAN



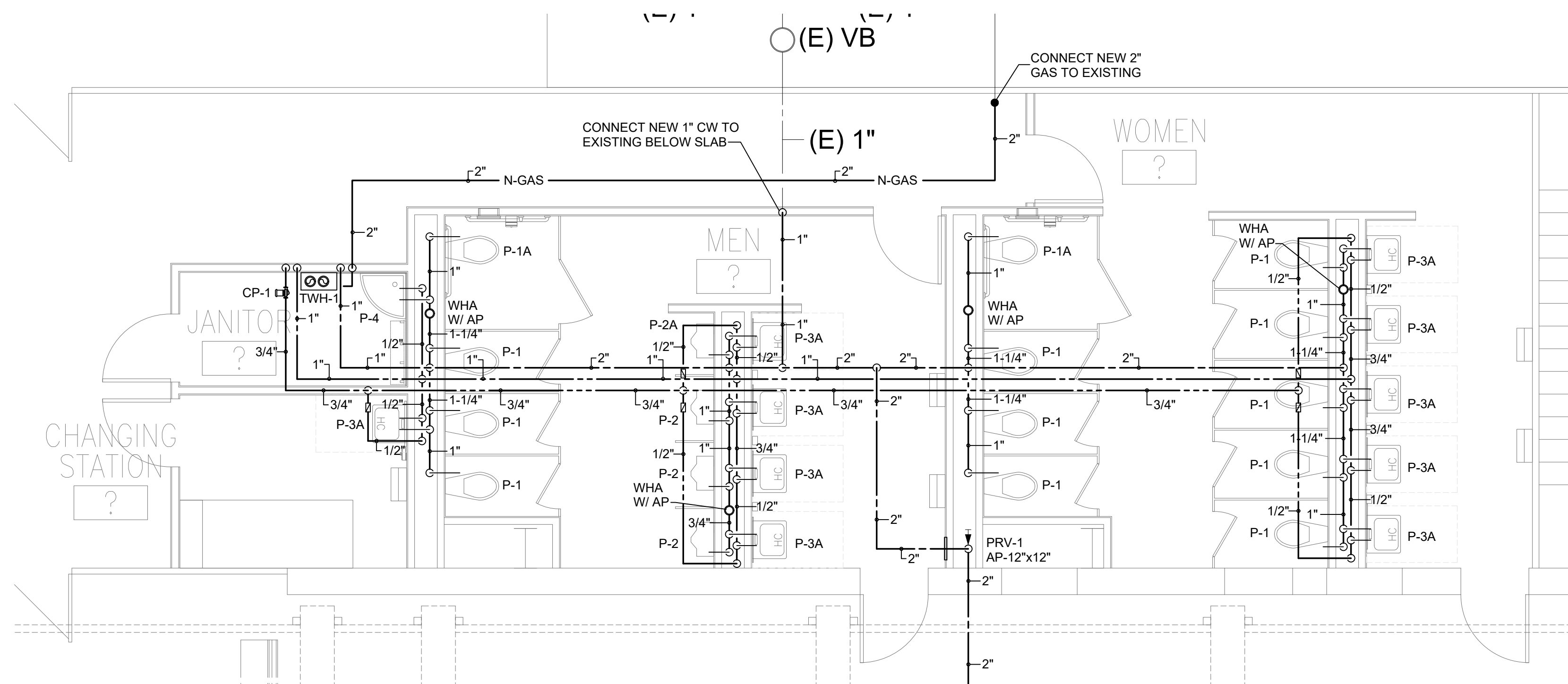
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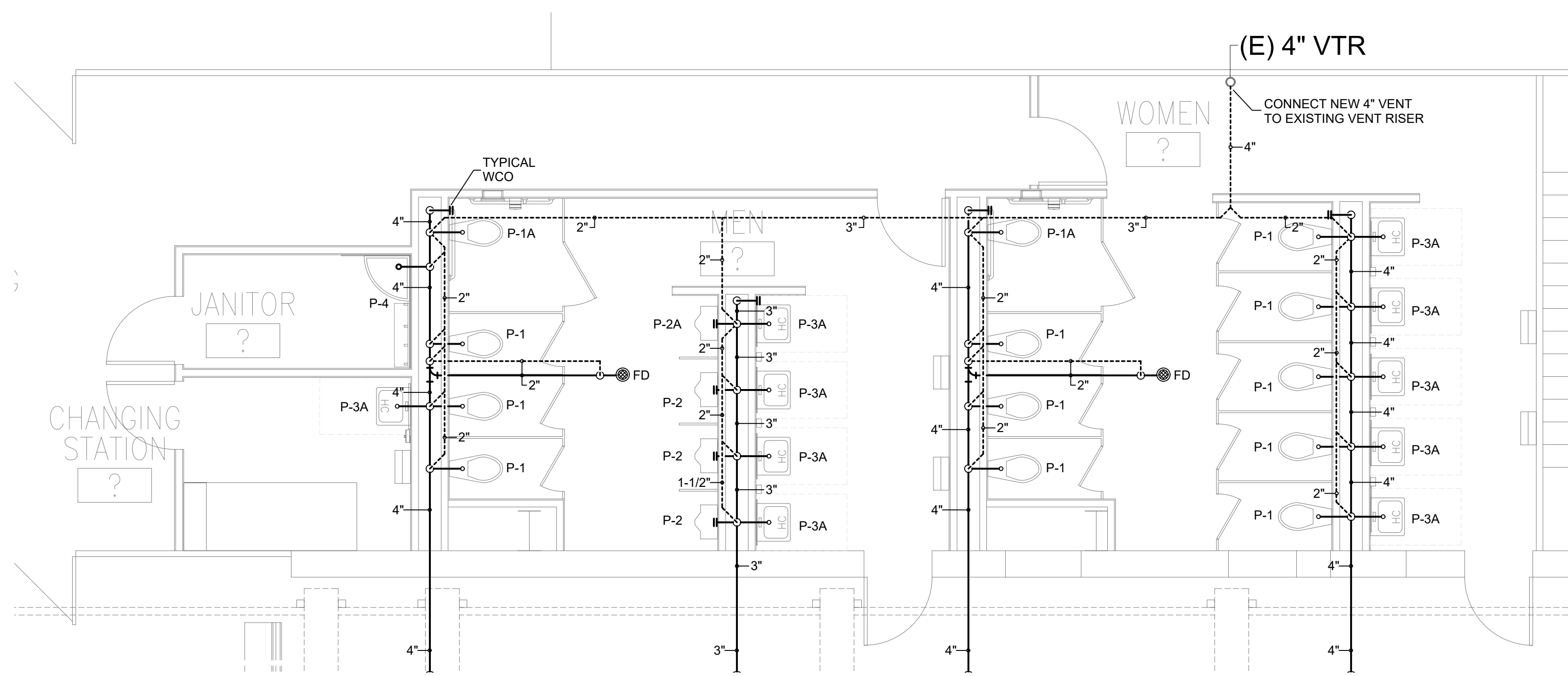
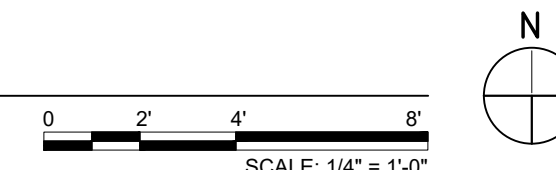
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C1 ENLARGED PLUMBING PLAN – WATER & GAS



A1 ENLARGED PLUMBING PLAN – WASTE & VENT



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COUNTY
FAIRGROUNDS
PAVILLION
MULTI PURPOSE**

**PORTALES
NEW MEXICO**

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HRM PS

PROJECT NUMBER:

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SHEET TITLE:

**ENLARGED
PLUMBING
FLOOR PLANS**

SHEET NO.

P-201



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- C PLUMBING CONTRACTOR SHALL COORDINATE ALL CUTTING, REMOVAL, REPLACEMENT, AND PATCHING OF FLOOR SLAB, WALLS, CEILINGS, ETC. TO ACCOMMODATE NEW CONSTRUCTION.

KEYED NOTES

- 1 EXISTING PLUMBING FIXTURES AND ALL TRIM TO BE DISCONNECTED AND REMOVED. EXISTING WASTE AND VENT PIPING TO BE REMOVED ENTIRELY TO ACCOMMODATE NEW PLUMBING WORK. FIELD VERIFY ALL EXISTING FIXTURES, PIPING, SIZES, LOCATIONS, AND INVERTS.
- 2 EXISTING SANITARY SEWER PIPING BELOW GRADE TO BE CUT, REMOVED, AND SEALED. FIELD VERIFY EXISTING PIPING, SIZES, LOCATIONS, AND INVERTS.
- 3 EXISTING CLEAN-OUT AND CONCRETE COLLAR DISCONNECTED AND REMOVED ACCOMMODATE NEW SANITARY SEWER WORK. FIELD VERIFY EXISTING PIPING, SIZE, LOCATION, AND INVERT.
- 4 EXISTING 4" SANITARY SEWER BELOW GRADE TO REMAIN. SCOPE PIPING TO DETERMINE CONDITION AND REPLACE IF NEEDED. FIELD VERIFY EXISTING CONDITION.
- 5 EXISTING 4" VTR TO REMAIN.



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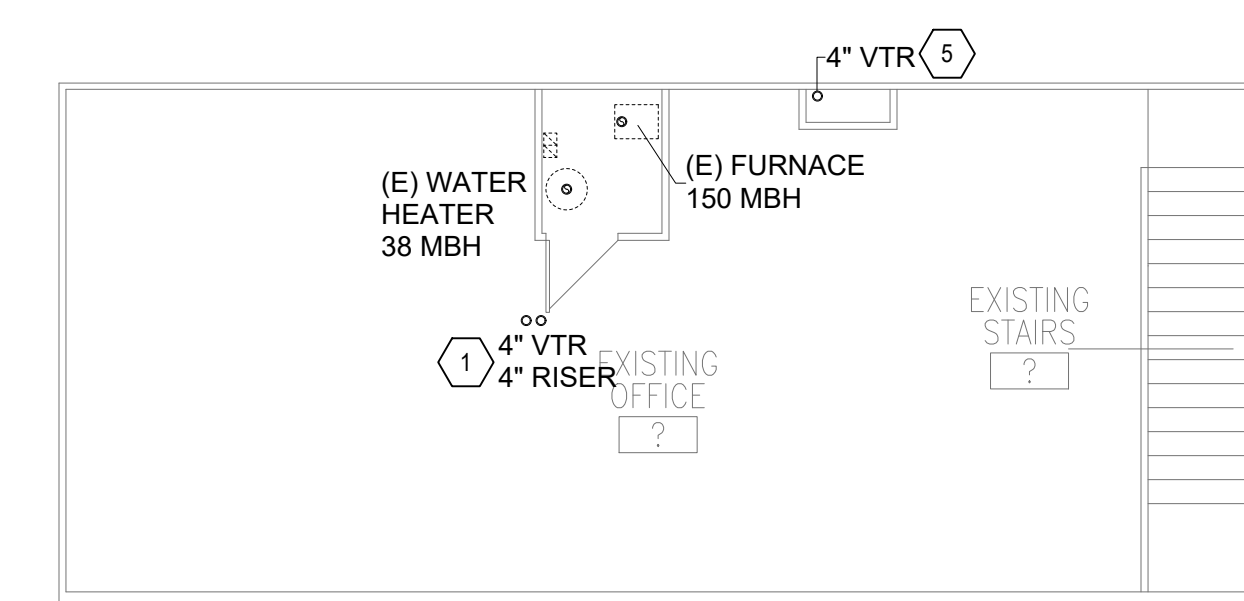
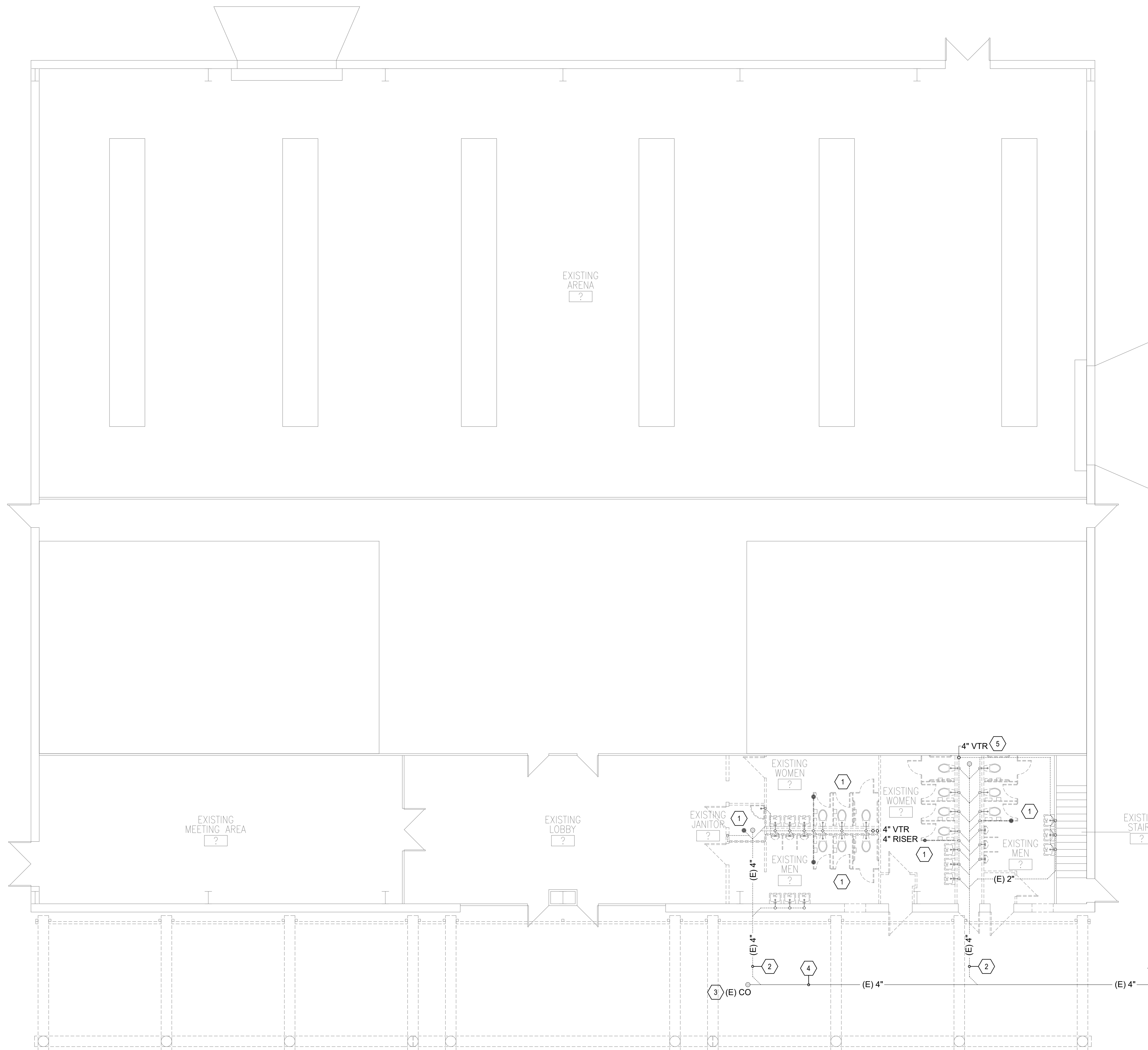
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**PLUMBING
DEMOLITION PLANS
WASTE & VENT**

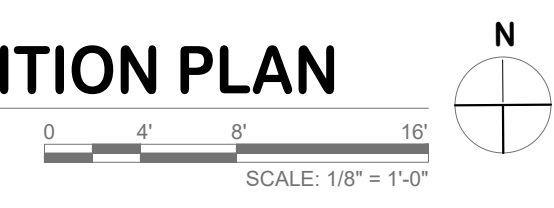
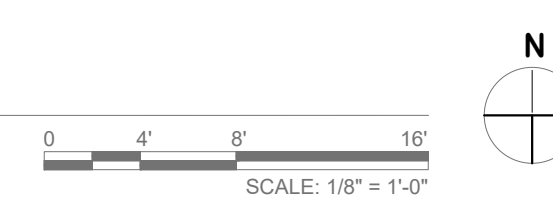
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PD-101



A4 PLUMBING 2ND FLOOR DEMOLITION PLAN

A1 PLUMBING 1ST FLOOR DEMOLITION PLAN - WASTE & VENT



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KEYED NOTES

- 1 EXISTING PLUMBING FIXTURES AND ALL TRIM TO BE DISCONNECTED AND REMOVED. EXISTING WATER PIPING TO BE REMOVED ENTIRELY TO ACCOMMODATE NEW PLUMBING WORK. FIELD VERIFY ALL EXISTING FIXTURES, PIPING, SIZES, AND LOCATIONS.
- 2 EXISTING WATER PIPING BELOW GRADE TO BE CUT, REMOVED, AND CAPPED TO ACCOMMODATE NEW PLUMBING WORK. FIELD VERIFY EXISTING PIPING, SIZES, AND LOCATIONS. EXISTING VALVE IN BOX TO BE CLOSED FOR NEW WATER PIPING INSTALLATIONS.
- 3 EXISTING 2" MAIN DOWNSTREAM OF VALVE BOX TO REMAIN. NEW WATER PIPING TO BE CONNECTED PER NEW PLUMBING WORK.
- 4 EXISTING WATER HEATER AND ACCESSORIES TO BE DISCONNECTED AND REMOVED ENTIRELY. EXISTING WATER AND GAS PIPING TO BE REMOVED ENTIRELY. FIELD VERIFY ALL EXISTING EQUIPMENT, PIPING, SIZES, AND LOCATIONS.
- 5 EXISTING FURNACE TO REMAIN. EXISTING GAS AND POWER TO REMAIN.
- 6 EXISTING GAS PIPING TO REMAIN. FIELD VERIFY SIZE AND LOCATION.



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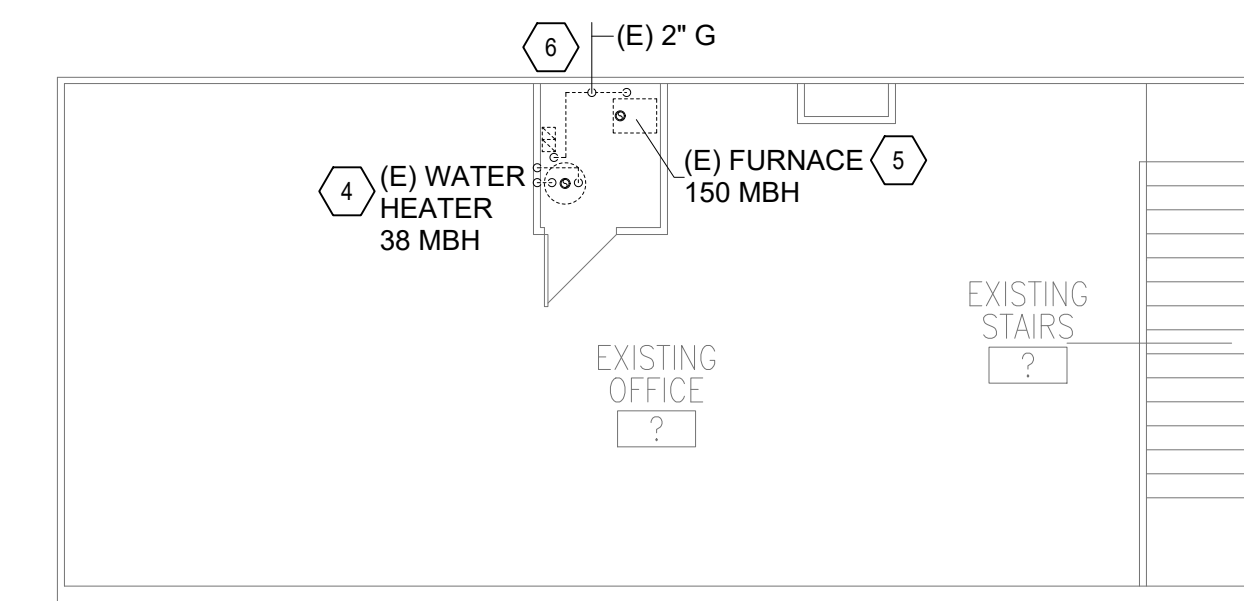
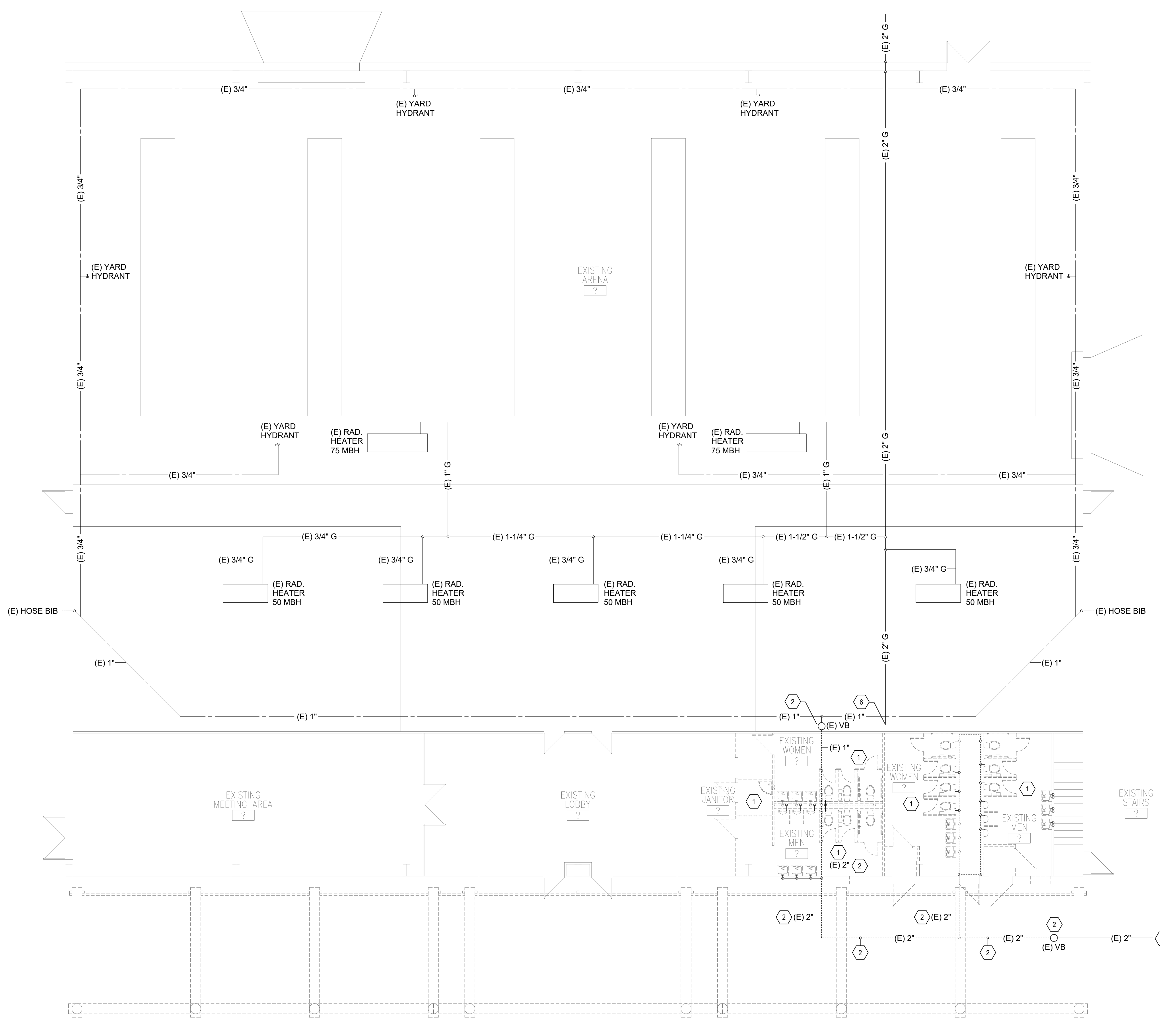
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SHEET TITLE:

**PLUMBING
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WATER & GAS**

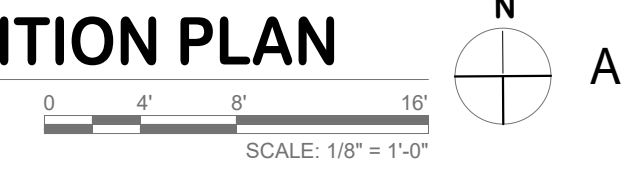
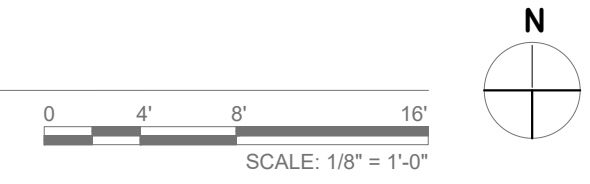
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PD-102



A1 PLUMBING 1ST FLOOR DEMOLITION PLAN - WATER & GAS

A4 PLUMBING 2ND FLOOR DEMOLITION PLAN



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MECHANICAL SPECIFICATIONS

1. GENERAL

A. PROVIDE ALL NECESSARY LABOR, MATERIALS, EQUIPMENT, SERVICES AND INSURANCES TO COMPLETE THE AIR CONDITIONING WORK WITHIN THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS CONTAINED HEREON AND TO THE ENTIRE SATISFACTION OF THE ARCHITECT/ENGINEER.

B. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE FOR OBSERVATIONS REQUIRED ABOVE THE CEILING AND UNDER THE FLOOR.

C. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, RULES AND LOCAL REQUIREMENTS.

D. AIR CONDITIONING WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE BIC, IMC, IPC, IECC- AND ALL APPLICABLE CODES, RULES AND LOCAL REQUIREMENTS.

E. GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR.

F. ALL DIMENSIONS AND MEASUREMENTS SHALL BE VERIFIED AT THE JOB SITE BEFORE FABRICATION AND/OR INSTALLATION OF THE NEW VAV AND DUCTWORK.

2. SUBMITTALS

A. SPECIFICATION SHEETS WILL BE REQUIRED FOR ALL NEW EQUIPMENT TO BE INSTALLED AND SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION. FURNISH SUBMITTALS FOR:

- a. AC W/D CLG. NATURAL-GAS HEATING SPLIT-SYSTEMS.
- b. REFRIGERANT PIPING.
- c. PACKAGED TERMINAL AIR-CONDITIONING UNITS (PTACs).
- d. EXHAUST FANS.
- e. DIFFUSERS, GRILLES, AND REGISTER.
- f. DUCTWORK INSULATION.

B. ALL EQUIPMENT SHALL BE AS SCHEDULED ON DRAWINGS.

C. AT CONTRACTOR'S OPTION EQUIPMENT OF EQUAL QUALITY, CONSTRUCTION AND CAPACITIES CAN BE SUBMITTED FOR APPROVAL AT TIME. CONTRACTOR MUST SUBMIT A ITEM-BY-ITEM LIST OF CAPACITY AND CONSTRUCTION FEATURES TO SHOW THAT SUBSTITUTED EQUIPMENT IS EQUAL OR BETTER THAN THAT SPECIFIED.

D. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED MECHANICAL, ARCHITECTURAL, STRUCTURAL AND ELECTRICAL CHANGES NECESSARY TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.

E. AC W/D CLG. NATURAL-GAS HEATING SPLIT-SYSTEM UNITS

- a. THE CONTRACTOR SHALL PROVIDE AND INSTALL AC W/D CLG. NATURAL-GAS HEATING SPLIT-SYSTEM UNITS AS SPECIFIED AND SHOWN ON THE DRAWINGS.
- b. INSTALL AC W/D CLG. NATURAL-GAS HEATING SPLIT-SYSTEM UNITS PER ALL MANUFACTURER INSTRUCTIONS AND RECOMMENDATIONS.

F. EXHAUST FANS

- a. PROVIDE WHERE INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE EXHAUST FAN SCHEDULE.
- b. EXHAUST FANS SHALL BE PROVIDED WITH ROOF CURBS, BACKDRAFT DAMPERS, BIRD SCREENS, SPEED SWITCHES AND DUCT CONNECTIONS AS INDICATED ON THE DRAWINGS.

3. MECHANICAL WORK

A. DISTRIBUTION DUCT SYSTEM

THIS CONTRACTOR SHALL PROVIDE NEW DUCTWORK AND DUCT CONNECTIONS IN ACCORDANCE WITH CURRENT EDITIONS OF THE ASHRAE GUIDE AND WITH THE S.M.A.C.N.A. DUCT CONSTRUCTION STANDARDS. THE NEW DUCTWORK SHALL BE CONSTRUCTED ESSENTIALLY AS SHOWN ON THE DRAWINGS.

- a. ALL NEW DUCTWORK AND FITTINGS SHALL BE CONSTRUCTED OF 24 GA. GALVANIZED SHEET METAL.
- b. ALL NEW DUCTWORK WILL BE SEALED AIRTIGHT.
- c. ALL DUCT JOINTS TO BE SEALED WITH S.M.A.C.N.A. APPROVED TAPE AND/OR ADHESIVE/MASTIC.

B. DUCTWORK INSULATION

- a. DUCTWORK CONCEALED ABOVE CEILING SHALL BE EXTERNALLY INSULATED WITH 1" THICK, 1.5 LB/CU. FT DENSITY FIBERGLASS BLANKET INSULATION (MIN. R-5) WITH FSK WATER BARRIER JACKET.
- b. ACOUSTIC LINED DUCTWORK 1" THICK, 1.5 LB/CU. FT DENSITY, R-8, BLACK, THERMOPLASTIC RESIN COATED FIBERGLASS DUCT LINER, INSTALLED IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS.
- c. DUCTWORK INSTALLED IN EXPOSED AREAS WILL NOT BE INSULATED.
- d. RETURN AIR DUCTWORK IN EXPOSED AREAS WILL BE LINED WITH 1" THICK, 1.5 LB/CU. FT. DENSITY, BLACK, THERMOPLASTIC RESIN COATED FIBERGLASS DUCT LINER, INSTALLED IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS.
- e. RETURN AIR DUCTWORK IN CONCEALED AREAS WILL BE LINED THE SAME AS EXPOSED DUCTWORK, EXCEPT THE ACOUSTIC LINING IS LIMITED TO TWENTY (20) FEET FROM THE RETURN AIR OPENING AT AIR HANDLING UNIT.

C. FLEXIBLE DUCTWORK TO BE THERMOFLEX OR APPROVED EQUAL. FLEXIBLE DUCT RUNOUTS SHALL NOT EXCEED 8 FEET IN LENGTH.

FLEXIBLE DUCT (R-4 VALUE, MIN.) FLEXIBLE DUCT, TAPES, MASTICS, AND NON-METALLIC CLAMPS SHALL BE UL181 LISTED AND COMPLY WITH NFPA STANDARDS 96A AND 96B. INSTALL PER IMC-2009.

- a. FLEXIBLE DUCT SYSTEMS THAT HAVE INDIVIDUAL RUN LENGTHS GREATER THAN 5' SHALL BE THE INSTALLING CONTRACTOR'S RESPONSIBILITY FOR MEETING THE COMPLETE SYSTEMS DESIGN CRITERIA AND PERFORMANCE.
- b. ALL FLEXIBLE DUCT AND COMPONENTS INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

D. NEW MANUAL, VOLUME DAMPERS SHALL BE "STAMP" FITTING TYPE, REQUIRED TO A STEEL SHAF FULLY PENETRATING DUCT WITH MINIMUM TWO LOAD BEARING POINTS. PROVIDE LOCKING QUADRANT HANDLE. VERIFY LOCATION AND SIZE OF ALL EXISTING EQUIPMENT AND DUCTWORK ABOVE CEILING.

E. ALL DUCT JOINTS TO BE SEALED WITH S.M.A.C.N.A. APPROVED TAPE AND CADOPRENE #725 ADHESIVE. DP 1010 OR MONOKO.

4. REFRIGERANT PIPING

COPPER TUBE: ASTM B 88, TYPE K OR L (ASTM B 88M, TYPE A OR B)

- a. WROUGHT-COPPER FITTINGS: ASME B16.22
- b. WROUGHT-COPPER UNIONS: ASME B16.22
- c. SOLDER FILLER METALS: ASTM B 32, USE 95-5 TIN ANTIMONY OR ALLOY HB SOLDER TO JOIN COPPER SOCKET FITTINGS ON COPPER PIPE.
- d. BRASS FILLER METALS: AMS AS 8.

e. FLEXIBLE CONNECTORS:

- BODY: TIN-BRONZE BELLOWS WITH WOVEN, FLEXIBLE, TINNED-BRONZE-WIRE-REINFORCED PROTECTIVE JACKET.
- END CONNECTIONS: SOCKET ENDS.
- OFFSET PERFORMANCE: CAPABLE OF MINIMUM 3/4-INCH (20-MM) MISALIGNMENT IN MINIMUM 7-INCH-(180-MM) LONG ASSEMBLY.
- PRESSURE RATING: FACTORY TEST AT MINIMUM 500 PSIG (3450 KPA).
- MAXIMUM OPERATING TEMPERATURE: 200 DEG F (121 DEG C).

ALUMINUM TUBE AND FITTINGS: IS NOT ALLOWED TO BE INSTALLED ON THIS PROJECT.

5. OTHER MATERIAL

A. OTHER MATERIAL NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE JOB, SHALL BE NEW AND FIRST QUALITY, FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

6. WORKMANSHIP

A. ALL WORK TO BE PERFORMED BY A QUALIFIED PERSONNEL, NORMALLY ENGAGED IN THE RESPECTIVE LINE OF WORK.

B. PERFORM ALL WORK IN A MANNER NOT TO DISTURB THE NORMAL OPERATION OF THE OPERATION OF ADJACENT AREAS.

C. DEMOLITION WORK SHALL NOT CREATE ANY PROBLEMS IN ADJACENT AREAS. CONTRACTOR SHALL PROVIDE TEMPORARY BOUNDARY MATERIAL AS REQUIRED.

D. COORDINATE DEMOLITION OF SYSTEMS WITH THE GENERAL CONTRACTOR AND OWNER.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A NEAT AND CLEAN WORK SITE DURING CONSTRUCTION.

F. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF OTHER TRADES AND WORK SHALL BE ACCEPTABLE TO THE MECHANICAL ENGINEER AND OWNER.

7. CUTTING, PATCHING, AND PAINTING

A. ALL NECESSARY CUTTING AND PATCHING TO BE PERFORMED BY THE GENERAL CONTRACTOR OR PRIME CONTRACTOR.

B. ALL WORK SHALL BE DONE BY QUALIFIED PERSONNEL, NORMALLY ENGAGED IN THE RESPECTIVE WORK REQUIRED AND SHALL HAVE LICENSE AND INSURANCE FOR SUCH WORK.

C. CUTTING OF ALL OPENINGS SHALL BE COORDINATED WITH THE OWNER'S ENGINEERING REPRESENTATIVE PRIOR TO COMMENCEMENT OF CUTTING.

8. PRODUCT HANDLING

A. ALL MEANS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING, AND AFTER INSTALLATION AND SHALL PROTECT THE MATERIALS AND WORK OF THE OTHER TRADES.

B. REPAIRS: IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ENGINEER AND OWNER AT NO ADDITIONAL COST TO THE OWNER.

9. TEST AND BALANCE OF SYSTEMS

A. AFTER COMPLETION OF THE INSTALLATION WORK, TEST AND ADJUST ALL COMPONENTS OF THE NEW SYSTEMS AND MODIFIED SYSTEMS TO THE SATISFACTION OF THE MECHANICAL ENGINEER AND OWNER.

B. AIRFLOW BALANCE TO BE CONDUCTED BY A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL.

C. TEST AND BALANCE CONTRACTOR WILL WORK WITH CONTROLS CONTRACTOR TO COORDINATE AIRFLOWS AND CONTROLS REQUIREMENTS OF THESE CONTRACT DOCUMENTS ARE SATISFIED.

10. OPERATIONAL TEST AND ADJUSTMENTS

A. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADDITIONAL ITEMS NOTED BELOW.

B. TESTING AND START-UP OF MECHANICAL EQUIPMENT AND SYSTEMS WILL BE REQUIRED UPON PROJECT COMPLETION. ALL PERSONNEL AND INSTRUMENTS REQUIRED SHALL BE FURNISHED BY THE CONTRACTOR. MECHANICAL CONTRACTORS SHALL COOPERATE WITH EACH OTHER AND THE OWNER'S REPRESENTATIVES IN CONDUCTING TESTS.

C. ANY FINAL ADJUSTMENTS FOUND NECESSARY TO BE MADE TO THE EQUIPMENT OR SYSTEMS SO THAT THEY WILL BE PLACED IN ACCEPTABLE OPERATING CONDITIONS AND MEET THE SPECIFIED PERFORMANCE SHALL BE MADE DURING ANY OR ALL OF THE TESTS SPECIFIED HEREIN.

D. ANY EQUIPMENT, SYSTEMS, OR WORK FOUND DEFICIENT DURING ANY TESTS SHALL BE REPLACED OR REVISED AS REQUIRED TO THE ENTIRE SATISFACTION OF THE OWNER, ARCHITECT, OR ENGINEER.

E. BEFORE STARTING OR OPERATING ANY EQUIPMENT OR SYSTEMS, A THOROUGH CHECK SHALL BE MADE TO DETERMINE THAT ALL SYSTEMS HAVE BEEN FLUSHED AND CLEANED AS REQUIRED AND THAT ALL EQUIPMENT HAS BEEN PROPERLY INSTALLED, LUBRICATED AND SERVICED.

F. DURING TEST PERIOD, FINAL ADJUSTMENTS AND BALANCING SHALL BE MADE TO EQUIPMENT, SYSTEMS, CONTROLS, AND CIRCUITS SO THAT ALL ARE PLACED IN FIRST-CLASS OPERATING CONDITION.

SYMBOL	MANUFACTURER	MODEL	USE	TYPE	COMMENT
S2	PRICE (or equal)	SCDA Series Frame 31 WSPF	SUPPLY DIFFUSER	GYP BD	CEILING SUPPLY DIFFUSER, STAMPED FACE, LAY-IN TYPE FRAME FOR GYP BD CEILING MOUNTING, ROUND NECK, ADJUSTABLE PANEL, VANED WITH ADJUSTABLE PATTERN TABS, AND REMOVABLE CORE. DIFFUSER SIZE EQUAL TO BRANCH DUCT SIZE. WHITE POWDER COAT FINISH, OR COLOR AS SELECTED BY ARCHITECT.
E2	PRICE (or equal)	80CH	EXHAUST GRILLE	GYP BD	CEILING EXHAUST GRILLE, ALUMINUM CONSTRUCTION 1/2" X 1/2" X 1/2" (13x13x13) SQUARE EGGRATE CORE WITH SURFACE TYPE FRAME FOR GYP BOARD CEILING MOUNTING AND CONCEALED FASTENING. NOTE COLOR AS SPECIFIED BY ARCHITECT. FURNISH WITH OBD.

SYMBOL	MANUFACTURER	MODEL	TYPE	DRIVE	CFM	ESP IN. W.G.	RPM	MAX. SOUND LEVEL SONES	HP	VOLTAGE	WEIGHT LBS.
EF-101	GREENHECK	GB-101	Roof	Belt	657	0.5	1200	5.7	1/3	120/1/60	100
EF-102	GREENHECK	GB-101	Roof	Belt	526	0.5	1140	5.7	1/3	120/1/60	100

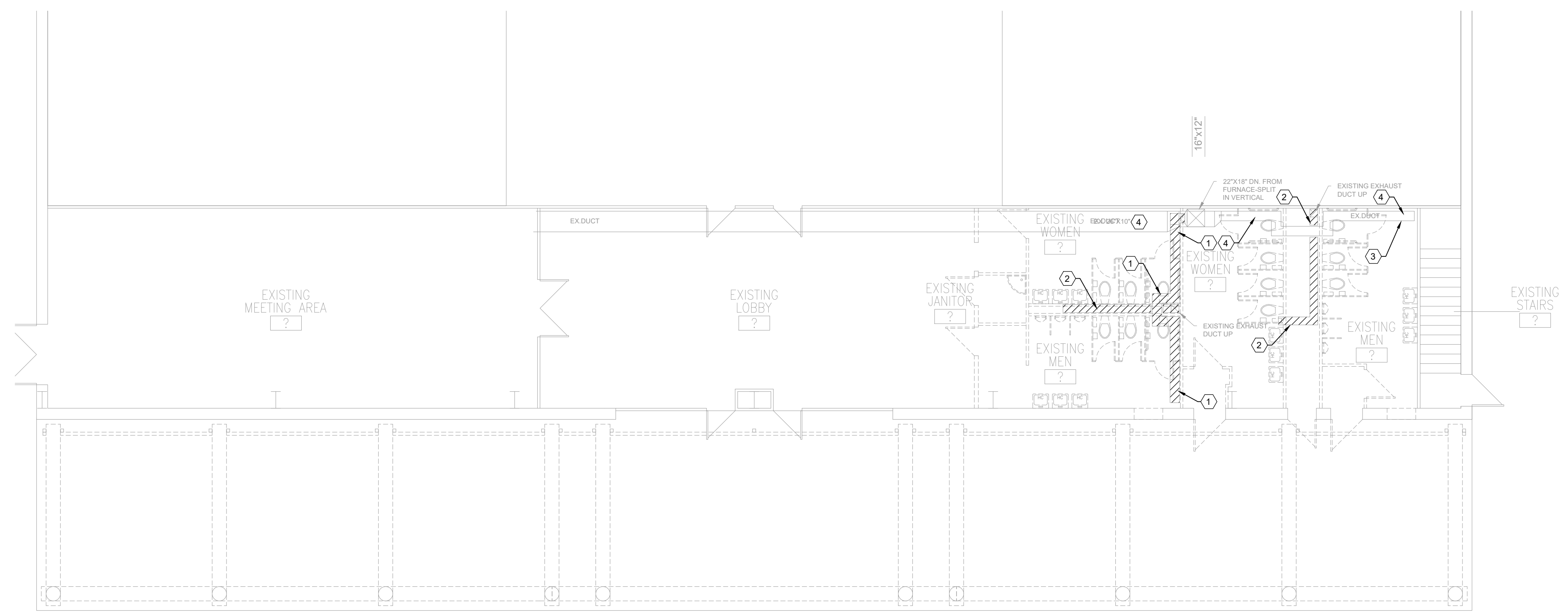
• Backdraft Damper
• Birdscreen
• Vibration Isolation
• Roof Curb

DEMOLITION GENERAL NOTES

- A. THE TERM "REMOVE" MEANS "REMOVE AND FULLY DISPOSE OF" UNLESS OTHERWISE NOTED.
- B. THESE DRAWINGS REFLECT MECHANICAL INFORMATION GATHERED BY SITE INSPECTIONS, PREVIOUS CONSTRUCTION DRAWINGS AND DISCUSSIONS WITH SITE PERSONNEL. IT IS POSSIBLE THAT THE EXACT LOCATION OF SOME EQUIPMENT MAY BE SLIGHTLY DIFFERENT FROM LOCATIONS SHOWN ON THIS DRAWING. PRIOR TO WORK STARTING THE CONTRACTOR SHALL MAKE A SITE VISIT TO REVIEW SITE CONDITIONS AND REQUIREMENTS AS NOTED ON THE DRAWINGS.
- C. ALL EQUIPMENT AND OTHER ITEMS TO BE REMOVED SHALL BE SALVAGED TO TEMPORARILY HOLD AND PROTECT SALVAGED ITEMS UNTIL OWNER IS PREPARED TO TAKE POSSESSION OR REJECT THE UNIT FOR CONTRACTOR DISPOSAL. COVER AND PROTECT ITEMS FROM DETERIORATION DUE TO WEATHER. EQUIPMENT AND MATERIALS NOT SALVAGED BY OWNER SHALL BE REMOVED FROM SITE AND DISPOSED.
- D. CONTRACTOR TO REPAIR OR REPLACE ALL ITEMS DAMAGED AS A RESULT OF CONSTRUCTION DURING COURSE OF WORK. RESTORE ALL ITEMS TO CONSISTENT APPEARANCE AND TO MAINTAIN INTEGRITY OF ALL ITEMS.
- E. ALL ACTIVE PIPING, EQUIPMENT, ETC., SERVING FIXTURES AND EQUIPMENT TO REMAIN SHALL BE RELOCATED AS NECESSARY WHEN CONTAINED IN EXISTING CONSTRUCTION TO BE REMOVED.
- F. ALL PIPING, AND EQUIPMENT FOR MECHANICAL USES WHICH HAVE BEEN, OR ARE TO BE ABANDONED SHALL BE REMOVED AND CAPPED AS NECESSARY TO CONCEAL ALL REMAINING ELEMENTS WITHIN THE CONSTRUCTION TO REMAIN.
- G. CONTRACTOR IS RESPONSIBLE TO PATCH AND REPAIR ALL CEILINGS, WALLS, AND FLOORS AS A RESULT OF MECHANICAL MODIFICATIONS. RESTORE ALL ITEMS TO BE PATCHED AND/OR REPAIRED TO CONSISTENT APPEARANCE AND MAINTAIN INTEGRITY OF ALL ITEMS.
- H. REMOVE ALL MECHANICAL EQUIPMENT COMPLETE, INCLUDING DUCTWORK, PIPING AND CONTROLS.

DEMOLITION KEYED NOTES: (#)

1. REMOVE EXISTING DUCT COMPLETE INCLUDING ALL HANGERS, GRILLES AND REGISTERS. DUCT RISER TO FURNACE TO REMAIN.
2. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCT, GRILLES/REGISTERS COMPLETE.
3. REMOVE EXISTING SUPPLY DIFFUSER COMPLETE. PROVIDE CAP ON EXISTING DUCT AND MAKE AIR TIGHT.
4. EXISTING DUCT TO REMAIN.



A1 MECHANICAL FIRST FLOOR PLAN - DEMOLITION

0 4' 8' 16'
SCALE: 1/8" = 1'-0"



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04/05/2024

PROJECT TITLE

ROOSEVELT COUNTY FAIRGROUNDS PAVILLION MULTI PURPOSE

PORTALES NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

DRAWN BY: CHECKED BY:

JL PS

PROJECT NUMBER:

A1816.23

DATE:

04/05/24

SHEET TITLE:

MECHANICAL SPECIFICATIONS AND DEMOLITION FLOOR PLAN

SHEET NO:

M-100

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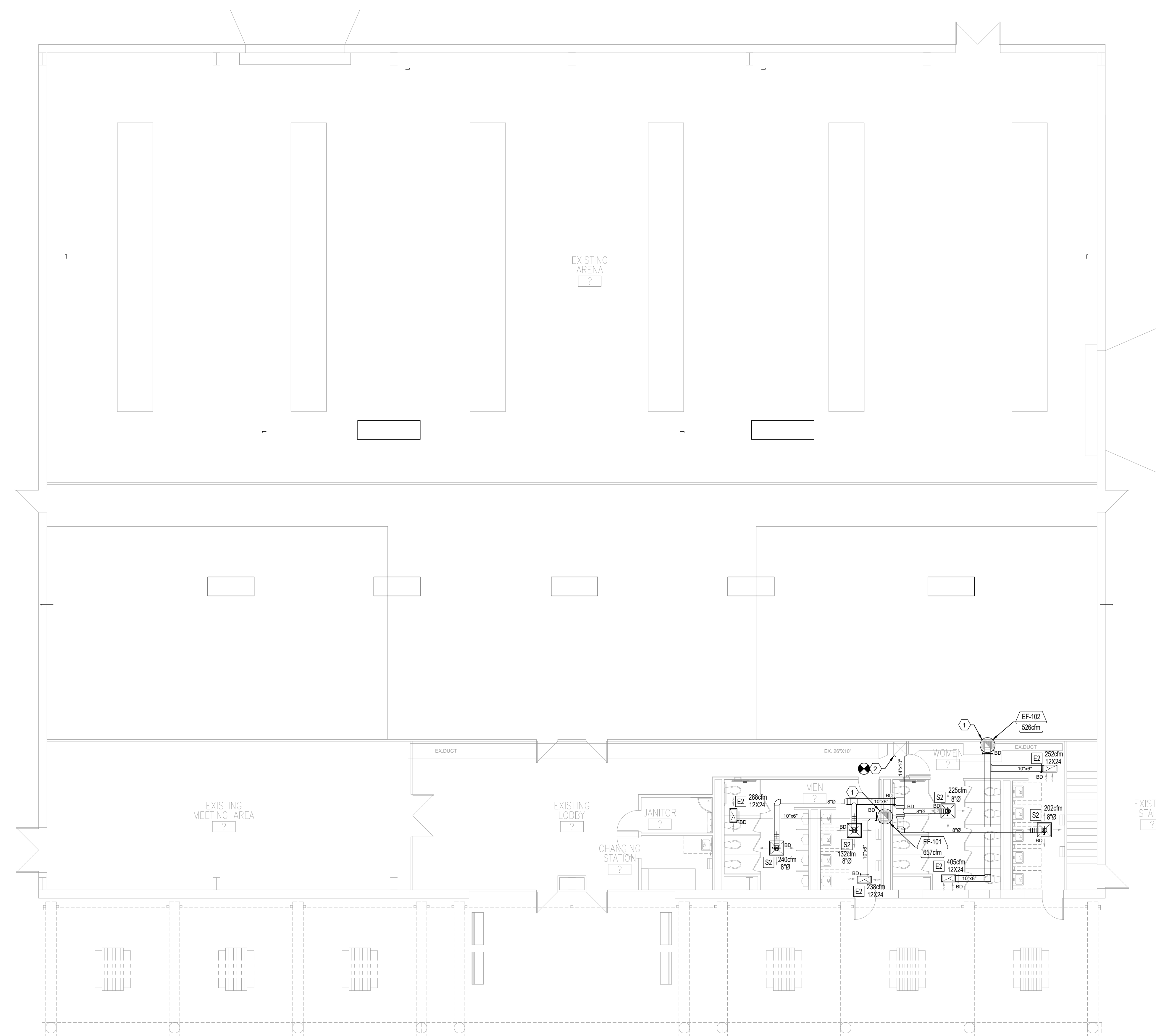
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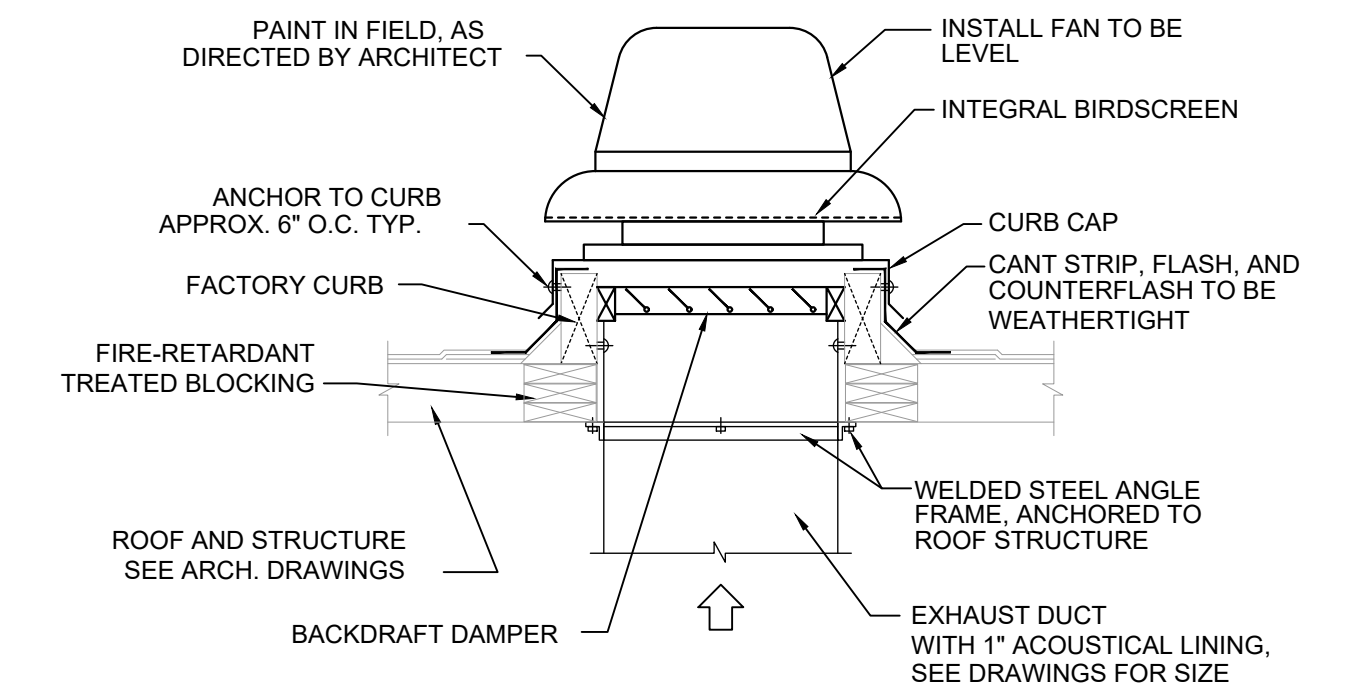
A1 MECHANICAL FIRST FLOOR PLAN - NEW WORK

GENERAL NOTES:

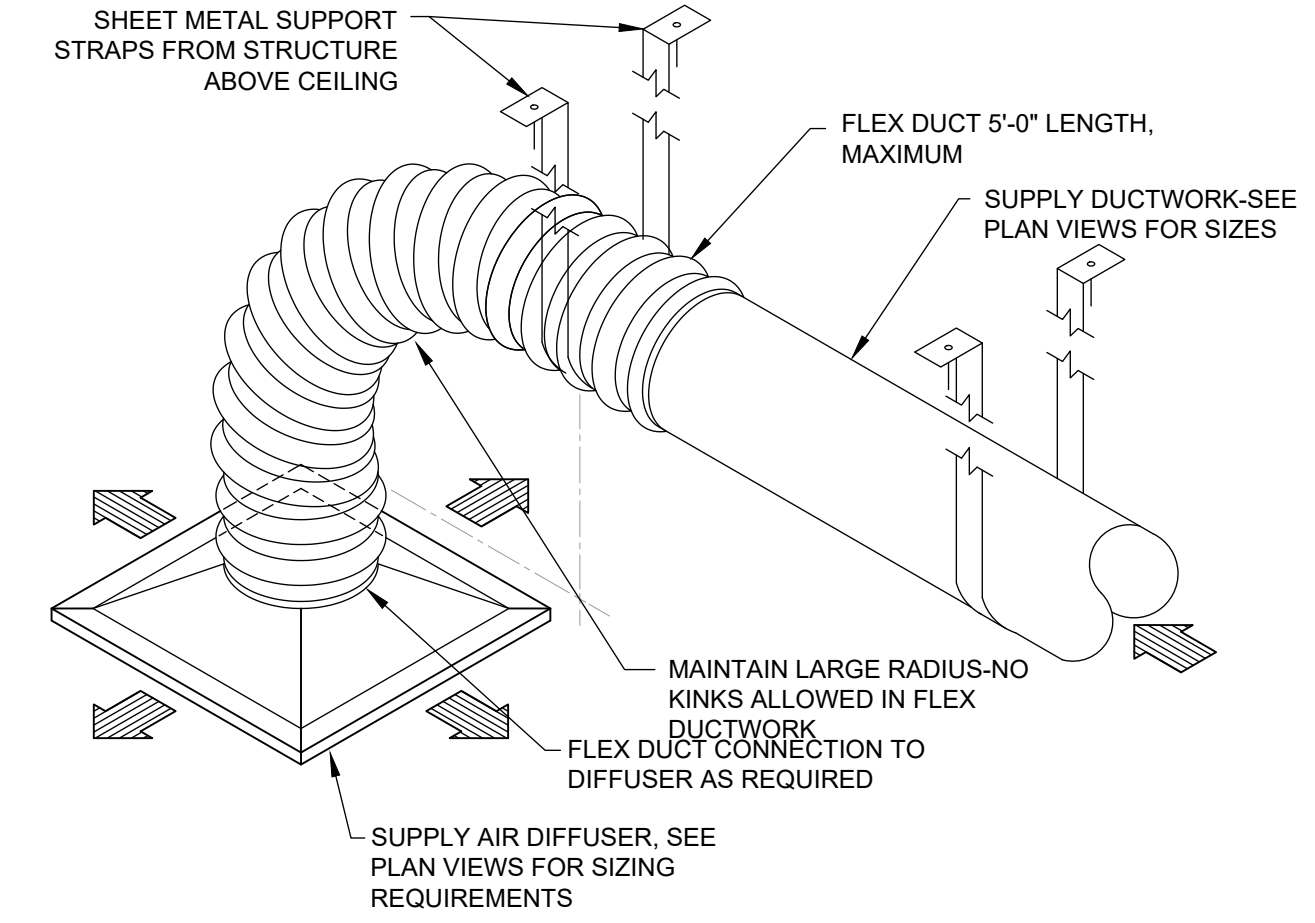
- A. VERIFY EQUIPMENT CONFIGURATION REQUIREMENTS BEFORE INSTALLATION. DUCT CONNECTIONS SHALL BE MADE AS REQUIRED.
- B. GAUGE OF DUCT WORK SHALL BE PER SMACNA'S RECOMMENDATIONS.
- C. WIRING OF SMOKE DETECTORS BY ELECTRICAL CONTRACTOR.
- D. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- E. ALL MATERIALS IN PLENUM SHALL HAVE A FLAME-SPREAD INDEX OF LESS THAN 25 AND SMOKE-DEVELOPED RATING INDEX LESS THAN 50. THEREFOR, PLENUM IS RATED TO ALLOW FOR PLENUM RETURN AIR FLOW IN COMPLIANCE WITH 602.2.
- F. ALL REFRIGERANT PIPING TO BE INSTALLED AND SIZED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- G. PATCH AND REPAIR ANY DAMAGE INSULATION TO MATCH EXISTING, CONSTRUCTION RELATED.

NEW KEYED NOTES:

- 1. APPROXIMATE LOCATION OF NEW EXHAUST FAN LOCATED ON ROOF. EXTEND DUCT AS SHOWN. UNIT TO BE SET LEVEL AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION. PROVIDE FACTORY FURNISHED ROOF CURB.
- 2. CONNECT NEW DUCT TO EXISTING RISER IN APPROXIMATE LOCATION INDICATED, EXTEND DUCT AS SHOWN. CONTRACTOR TO VERIFY POINT OF NEW CONNECTION DURING DEMOLITION. RE-CALIBRATE/RE-BALANCE EXISTING FURNACE FAN TO ACCOMMODATE THE NEW LOAD OF 800cfm.



C4 EXHAUST FAN DETAIL



B4 SUPPLY AIR DIFFUSER DETAIL



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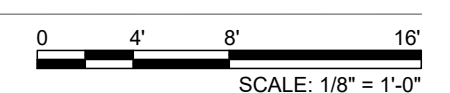
04/05/24

SHEET TITLE:

MECHANICAL FLOOR PLAN

SHEET NO:

M-101



FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION/ LOCATION	LED LAMPING - 4000K CCT			MOUNTING INSTRUCTIONS	REMARKS
				WATTS	LUMENS	CCT		
A	METALUX	#4AWSL-L3C3-UNV	4' LED WRAP	31.7W	4,095	3500K	SURFACE	
B	HALO	#PR6-FS12-D010-REM7 HB128PK	6" RECESSED DOWN LIGHT	20.4W	2,703	3500K	RECESSED	
C	NEO-RAY	#S123DR-S-560D-835-GYP XX-1-U-F-W	3" WIDE 8' LONG LED LINEAR	42.6W	4108	---	RECESSED, GYP BD CEILING	
EM	SURE-LITES	#AP2SQLED	EMERGENCY LIGHT	---	---	---	SURFACE WALL, 8' A.F.F.	

FIXTURE SCHEDULE GENERAL NOTES

- A. THE ARCHITECTURAL REFLECTED CEILING PLANS TAKE PRECEDENCE OVER THE LIGHTING PLANS SHOWN ON THE ELECTRICAL DRAWINGS. COORDINATE WITH ARCHITECTURAL REFLECTED PLANS AND COMPLY AS REQUIRED.
- B. MOUNTING HEIGHTS OF FIXTURES ARE GENERALLY SHOWN ON THE ARCHITECTURAL ELEVATIONS. COORDINATE AND COMPLY AS REQUIRED.
- C. FIXTURE VOLTAGES SHALL BE COORDINATED WITH BUILDING VOLTAGE SYSTEM. ALL LIGHTING DRIVERS SHALL BE 277V, UNLESS OTHERWISE NOTED ON THE PLANS.
- D. FIXTURES SHALL BE COMPATIBLE WITH THE CEILING TYPE INSTALLED WITHIN; PROVIDE GRID TYPE FIXTURES INSTALLED IN LAY-IN GRID CEILINGS.

ELECTRICAL GENERAL NOTES

- A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING ALL WORK INDICATED BY THESE DRAWINGS, INCLUDING; FURNISHING ALL EQUIPMENT, SUPPLIES, MATERIALS AND LABOR, TO PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN/INTENDED. THE CONTRACTOR SHALL PERFORM ALL OPERATIONS INCLUDING; CUTTING, PATCHING, CHANNELING, TRENCHING, COMPACTION AND BACKFILLING THAT ARE NECESSARY FOR THE INSTALLATION OF COMPLETE POWER, LIGHTING, OR OTHER ELECTRICAL SYSTEMS REPRESENTED IN THESE DRAWINGS.
- B. THE CONTRACTOR IS TO PERFORM ALL ELECTRICAL WORK IN NEAT WORKMANLIKE MANNER IN FULL COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, LOCAL CODES; INCLUDING BUT NOT LIMITED TO: THE NATIONAL ELECTRICAL CODE (NEC), ANY APPLICABLE STATE ELECTRICAL CODES, NFPA, NFPA-70E, UBC AND ADA. FAILURE TO COMPLY WITH THESE CODES WILL BE REMEDIATED AT CONTRACTOR EXPENSE.
- C. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING/INSTALLING. NO CLAIM FOR ADDITIONAL MONIES/COST OR TIME EXTENSION WILL BE ALLOWED WITHOUT PROPER NOTICE AND PRIOR DETERMINATION OF TIME AND COST TO THE PROJECT.
- D. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE THOROUGHLY CLEANED, REMOVING ALL FOREIGN MATERIAL, PAINT, DIRT, GREASE AND UNNEEDED LABELS OR STICKERS FROM FIXTURES, DEVICES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS THAT HAS ACCUMULATED DURING INSTALLATION ON THE PREMISES.
- E. ALL PHASES OF THE ELECTRICAL WORK SHALL BE COORDINATED WITH THE ARCHITECT, OWNER AND THE GENERAL CONTRACTOR. WORK SHALL BE PERFORMED TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO THE OWNER.
- F. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE FINAL LOCATIONS OF ALL SINKS AND PLUMBING FIXTURES WITH THE PROJECT PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. ANY ELECTRICAL DEVICES LOCATED BEHIND THE FINAL LOCATIONS OF COUNTERS, SINKS OR OTHER PLUMBING FIXTURES, SHALL BE SHIFTED A MINIMUM OF 8" (INCHES) TO EITHER SIDE OF THE SINK OR OBSTRUCTION. ANY ELECTRICAL DEVICES LEFT BEHIND A COUNTER, SINK OR OTHER PERMANENT PLUMBING FIXTURE AT THE TIME OF FINAL ELECTRICAL WALK-THRU. SHALL BE RELOCATED AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
- G. THE EXACT LOCATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH OTHER TRADES PRIOR TO ANY INSTALLATION. WHERE EXACT LOCATIONS ARE NECESSARY, THEY ARE DIMENSIONED ON THE DRAWINGS. WHERE THERE IS A QUESTION OF ADEQUATE CLEARANCE OR COORDINATION BETWEEN TRADES, THE ELECTRICAL CONTRACTOR SHALL PREPARE "AS-BUILT" DRAWINGS APPLICABLE TO THE SITUATION FOR ENGINEERS REVIEW.
- H. SIZE ALL BOXES AND ENCLOSURES PER THE NATIONAL ELECTRICAL CODE. WORKING SPACE FOR AND AROUND ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE DEFINED BY THE NATIONAL ELECTRICAL CODE.
- I. THE ELECTRICAL CONTRACTOR MUST COORDINATE WITH ALL OTHER TRADES TO INSURE THAT ALL REQUIRED COMPONENTS OF "CONTROL WORK" ARE INCLUDED AND FULLY UNDERSTOOD IN ORDER TO PROVIDE A COMPLETE AND OPERATING SYSTEM. NO ADDITIONAL COST SHALL BE ACCRUED BY THE OWNER AS A RESULT OF LACK OF SUCH COORDINATION.
- J. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS ON THE PROJECT PRIOR TO SUBMITTING A BID. IN ORDER TO ALLOW THE CONTRACTOR TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE PLANS AND SPECIFICATIONS. THE CONTRACTOR, BY SUBMITTING A BID, IMPLIES THAT HE HAS INVESTIGATED THE EXISTING PROJECT CONDITIONS TO HIS/HER SATISFACTION. ANY QUESTIONS ARISING DURING THE BID PERIOD WITH REGARDS TO THE CONTRACTOR'S FUNCTIONS, RESPONSIBILITIES, SCOPE OF WORK, OR ANY OTHER ISSUE RELATING TO THIS PROJECT SHALL BE BROUGHT UP PRIOR TO THE ACTUAL BID WITH THE ENGINEER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- K. ALL NEW MATERIAL INSTALLED ON THIS PROJECT IS TO BE "UL" LISTED, OR LISTED BY ANOTHER AGENCY THAT IS RECOGNIZED BY AUTHORITY HAVING JURISDICTION. SPECIAL OR CUSTOM BUILT DEVICES OR CONTROL PANELS ARE TO BE ASSEMBLED USING "LISTED" COMPONENTS, AND ARE REQUIRED TO BE RE-CERTIFIED TO PERFORM A CERTAIN TASK BY A "NATIONALLY RECOGNIZED TESTING LAB" (NRTL).
- L. ALL WIRING SHALL BE ROUTED IN CONDUIT AND SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS UNLESS OTHERWISE INDICATED. THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATIONS AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS. GENERALLY, CONDUIT SHALL BE "EMT", 1/2" MINIMUM UNLESS NOTED OTHERWISE. WHERE REQUIRED TO PROTECT FROM PHYSICAL DAMAGE, CONDUIT SHALL BE "GALVANIZED RIGID CONDUIT" (GRC) OR "GALVANIZED INTERMEDIATE CONDUIT" (IMC) TYPE. USE "FLEXIBLE METALLIC CONDUIT" ONLY WHERE INDICATED, OR IN FINAL CONNECTION POINT FOR MECHANICAL EQUIPMENT. ALL FINAL CONNECTION TO MECHANICAL EQUIPMENT SHALL BE MADE USING "LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT" USING STRANDED WIRE, OF WHICH THE LENGTH IS TO BE FIVE FEET (5). SURFACE MOUNTED RACEWAY SHALL BE USED ONLY WHERE INDICATED ON DRAWINGS AND SHALL BE "WIREMOLD" TYPE OR EQUAL, OR AS SPECIFIED. SURFACE MOUNTED RACEWAYS SHOULD BE MOUNTED IN CORNER OF THE WALL OR CEILING, UNLESS OTHERWISE SHOWN. ALL EXPOSED RACEWAYS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO ROUGH-IN.
- M. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL WORK TO AVOID LOCATION CONFLICTS. PRIOR TO ROUGH-IN, CONDUIT LOCATIONS SHOULD BE DISCUSSED WITH; THE MECHANICAL SUB-CONTRACTOR, THE CONTROLS SUB-CONTRACTOR, AND THE MECHANICAL AND/OR ELECTRICAL ENGINEER. INSTALL EXTERIOR WIRING IN APPROPRIATE, UTILIZING WEATHERPROOF FITTINGS, BOXES AND COVERS. SUPPORT ALL CONDUIT FROM THE BUILDING STRUCTURE. DO NOT SUPPORT CONDUIT FROM: VENTILATING DUCTS, MECHANICAL PIPING, SUSPENDED CEILING GRIDS, OR THEIR HANGERS. USE ONLY ACCEPTABLE/LISTED MEANS OF SUPPORT. EACH CONDUIT TERMINATION IS TO BE PROVIDED WITH AN INSULATED PLASTIC BUSHING OR A CONNECTOR WITH AN INSULATED THROAT. NO EXCEPTIONS.

- N. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO WALLS, CEILING, ETC. IN A PROFESSIONAL MANNER. ALL REPAIRS SHALL BE MADE USING MATCHING MATERIALS AND SHALL BE PROFESSIONALLY FINISHED TO MATCH THE EXISTING CONDITIONS.
- O. ALL EMT FITTINGS (COUPLING AND CONNECTORS) ARE TO BE "STEEL, COMPRESSION TYPE". THE USE OF "DIE-CAST OR SET SCREW" FITTINGS IS NOT ALLOWED. IN DAMP OR WET LOCATIONS, EMT FITTINGS SHOULD BE "WP" WEATHERPROOF FITTING AND MARKED.
- P. THE INSTALLATION OF ALL ELECTRICAL DEVICES SHALL COMPLY WITH THE "AMERICANS WITH DISABILITIES ACT" (ADA) AS ADOPTED BY THE STATE OF NEW MEXICO.
- Q. INSTALL ELECTRICAL EQUIPMENT AS NECESSARY OR AS INDICATED ON THE DRAWINGS. EXTEND ALL CONDUIT AND CONDUCTORS AND MAKE ALL FINAL CONNECTIONS MECHANICAL AND OWNER FURNISHED EQUIPMENT AS REQUIRED. LEAVE ALL EQUIPMENT OPERABLE CONDITION WITH APPROPRIATE OVERLOAD AND SERVICE DISCONNECT PROTECTION AS REQUIRED BY APPLICABLE CODES. FOLLOW THE MANUFACTURER'S INSTALLATION GUIDELINES WHERE APPLICABLE.
- R. EXPOSED CONDUIT WILL NOT BE ACCEPTED EXCEPT IN "UTILITY AREAS, OR WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- S. IN ADDITION TO RACEWAY BONDING REQUIRED BY THE CODE AND OUTLET BOX BONDING JUMPERS, THE CONTRACTOR SHALL INSTALL A GREEN EQUIPMENT "GROUNDING" CONDUCTOR FOR EACH BRANCH CIRCUIT. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDED AT ALL; JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, STARTERS, VFD'S AND MECHANICAL EQUIPMENT CABINETS, OR OTHER APPLICABLE EQUIPMENT.
- T. PROVIDE A 20 AMP, 120 VOLT "GFCI" PROTECTED RECEPTACLE WITH A THREADED WEATHERPROOF BOX AND WEATHERPROOF COVER, MOUNTED ON A PIECE OF PROPERLY SUPPORTED "IMC" CONDUIT WITHIN TWENTY-FIVE FEET (25) OF EACH ROOFTOP MECHANICAL UNIT.
- U. WIRING DEVICES SHALL BE RATED FOR THE GIVEN APPLICATION AS REQUIRED BY CODE. ALL SWITCHES AND RECEPTACLES SHALL BE RATED A MINIMUM OF 20 AMPS, AND SHALL BE EQUAL TO THE "HUBBELL CR AND CS" SERIES.
- V. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 VOLTS WITH TYPE "THHN/THWN" INSULATION, UNLESS OTHERWISE INDICATED OR SPECIFIED. MINIMUM WIRE SIZE SHALL BE #12 AWG (SOLID OR STRANDED). WIRE SIZED #10 AWG AND LARGER IS TO BE "STRANDED". ALL WIRING, INCLUDING LOW-VOLTAGE AND CONTROL WIRING IS TO BE RUN IN CONDUIT, UNLESS OTHERWISE NOTED.
- W. ALL WIRES SHALL BE TAGGED AT ALL EQUIPMENT BOXES, JUNCTION BOXES, PULL BOXES, AND CABINETS WITH APPROVED PLASTIC TAGS BY "ACTION CRAFT", "BRADY", OR APPROVED EQUAL.
- X. PULL/JUNCTION BOXES ARE TO BE PROVIDED AS SHOWN OR AS REQUIRED BY THE NEC.
- Y. ALL DISCONNECT SWITCHES, STARTERS, VFD'S AND OTHER "CONTROLLING DEVICES" SHALL BE PROVIDED WITH ENGRAVED MICARTA NAMEPLATES INDICATING THE EQUIPMENT CONTROLLED, THE CIRCUIT IT IS INSTALLED ON, AND THE PANEL LOCATION IT IS FED FROM. NAMEPLATES ARE TO BE ATTACHED WITH SCREWS, NOT ADHESIVES.
- Z. INTERIOR EXHAUST FAN SWITCHES SHALL BE 20 AMP-SINGLE POLE TOGGLE TYPE WITH A PILOT LIGHT. LABEL ALL INTERIOR EXHAUST FAN SWITCHES WITH ENGRAVED MICARTA NAMEPLATES READING "EXHAUST FAN". SEE THE SPECIFICATIONS TO DETERMINE IF OTHER LABELING IS REQUIRED, WHICH SHALL TAKE PRECEDENCE.

SYMBOL LEGEND

- CEILING OR WALL BRACKET FIXTURE. SEE FIXTURE SCHEDULE.
- LED OUTLET AND FIXTURE. SEE FIXTURE SCHEDULE.
- 2X4 LED OUTLET AND FIXTURE. SEE FIXTURE SCHEDULE.
- 2X2 SURFACE MOUNTED LED.
- 1X4 WALL MOUNT LED FIXTURE.
- EXIT LIGHT. ARROWS INDICATE DIRECTIONAL ARROW ON FIXTURE.
- EMERGENCY EGRESS LIGHTING FIXTURE WITH BATTERY PACK, SEE LIGHTING FIXTURE SCHEDULE, MH= 7'- 6" TO BOTTOM
- EMERGENCY EXIT LIGHTING FIXTURE WITH BATTERY PACK, SEE LIGHTING FIXTURE SCHEDULE, MH= ABOVE DOOR EXIT.
- SINGLE POLE WALL SWITCH, UP +48" TO TOP OF SWITCH.
- THERMAL O.L. SWITCH
- OCCUPANCY SENSOR SWITCH UP AT STANDARD HEIGHT.
- DIMMER SWITCH. SEE PLANS AND SPECS FOR CHARACTERISTICS
- KEYED SWITCH, UP +48" TO TOP OF SWITCH, SEE PLANS
- THREE WAY SWITCH, UP +48" TO TOP OF SWITCH.
- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
- SINGLE OUTLET, ISOLATED GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
- FOURPLEX CONVENIENCE OUTLET, GROUNDING TYPE, UP +18" UNLESS OTHERWISE INDICATED
- 250V-2P-4W SPECIAL PURPOSE GROUNDING OUTLET. AMPERAGE AS INDICATED.
- JUNCTION BOX FLUSH IN WALL WITH CONNECTION TO EQUIPMENT.
- J-BOX ABOVE LAY-IN CEILING W/ FLEX CONDUIT TO LAY-IN FIXTURES
- DISCONNECT SWITCH. SIZE AND POLES FOR LOAD CONNECTED.NEMA 3R
- SPECIAL SYSTEMS CABINET W/ HINGED DOOR AND KEYED LOCK
- SURFACE MOUNTED PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
- FLUSH MOUNTED PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
- PAD MOUNTED TRANSFORMER
- GROUND
- MOTOR CONNECTION, FRACTIONAL H.P (LESS THAN 1/3 HP)
- MOTOR CONNECTION WITH HP INDICATED.
- BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED. (NEUTRAL, HOT, SWITCHED, AND GROUNDING CONDUCTOR-LEFT TO RIGHT RESPECTIVELY)
- BRANCH CIRCUIT IN WALLS OR UNDER FLOOR, CONDUCTORS INDICATED.
- HOME RUN TO PANEL, WITH BRANCH CIRCUIT NUMBERS INDICATED.
- KEYED NOTE SYMBOL
- MECHANICAL EQUIPMENT SYMBOL



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SHEET TITLE:

FIXTURE SCHEDULE GENERAL NOTES SYMBOL LEGEND

SHEET NO.:

E-001

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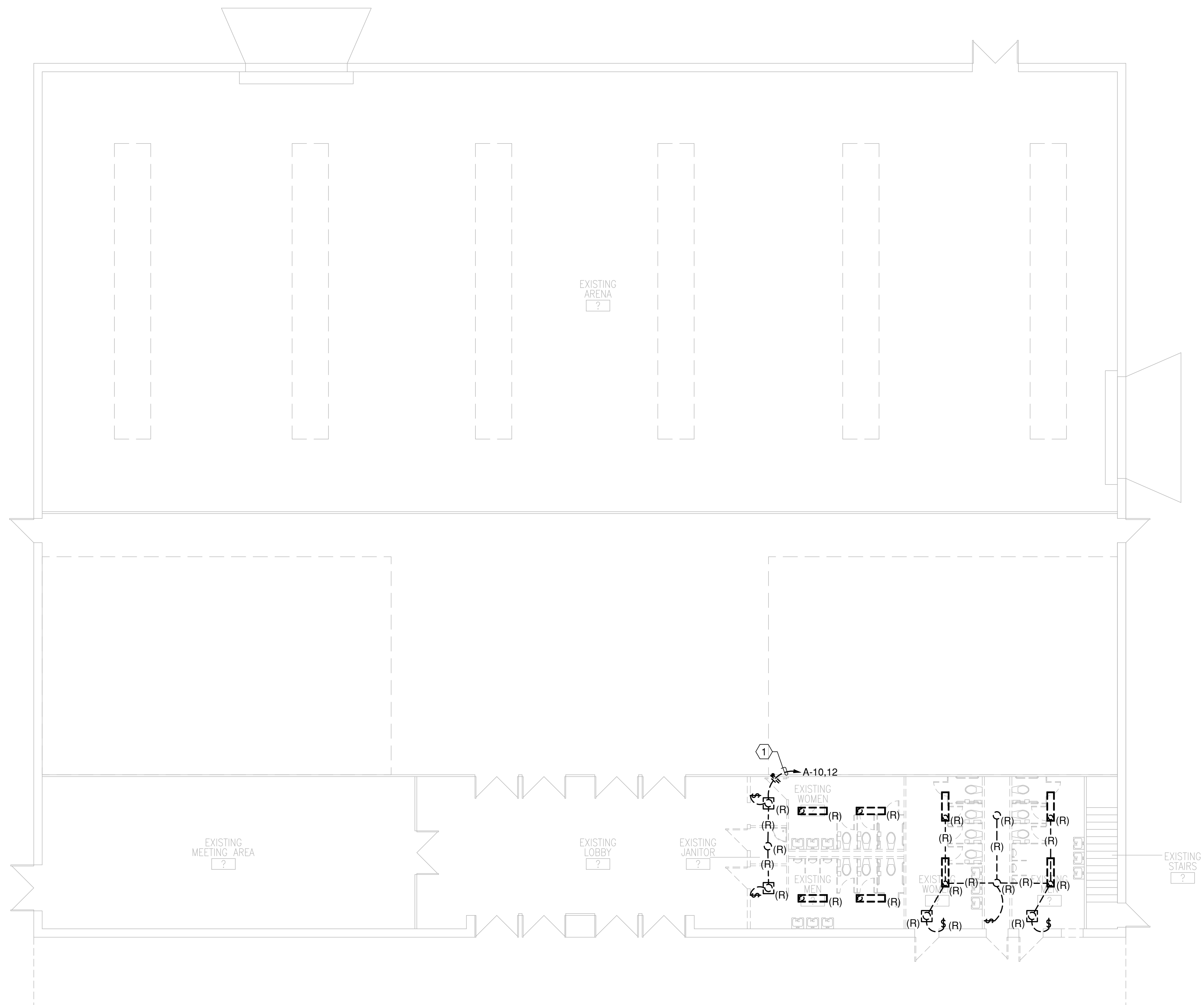
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GENERAL SHEET NOTES

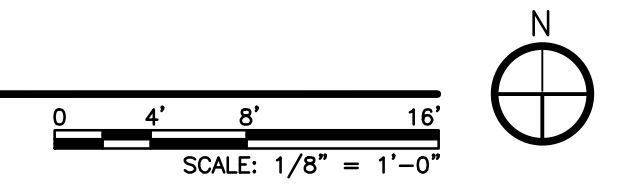
- A. THE CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WITH EXISTING CONDITIONS, PRIOR TO BID, AND SHALL INCLUDE ALL WORK REQUIRED TO COMPLETELY DISCONNECT ASSOCIATED EQUIPMENT AND TO COMPLETELY REMOVE ALL ASSOCIATED BRANCH CIRCUIT WIRING, WHERE REQUIRED.
- B. COMPUTER/DATA/PHONE CABLES SHALL BE REMOVED COMPLETE.
- C. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ELECTRICAL EQUIPMENT TO BE REMOVED.
- D. ALL EQUIPMENT REMOVED, NOT CLAIMED BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY DISPOSE OF ELECTRICAL EQUIPMENT REMOVED.
- F. NOT ALL BUILDING DETAILS AND BRANCH CIRCUIT CONDUIT/WIRING TO BE REMOVED ARE SHOWN ON THE PLANS. THE CONTRACTOR MAY REQUEST, AT HIS DISCRETION, TO REVIEW EXISTING ELECTRICAL, MECHANICAL, AND ARCHITECTURAL PLANS, AT THE OFFICE OF THE ARCHITECT.
- G. THE CONTRACTOR SHALL FIELD SURVEY OUTLETS TO BE REMOVED PRIOR TO BID. NOT ALL OUTLETS/DEVICES TO BE REMOVED ARE SHOWN ON THE PLAN. DURING DEMO PROCESS, COORDINATE REMOVALS WITH ARCHITECT IN THE FIELD.
- H. COORDINATE WITH ARCHITECT/ENGINEER AND FIELD VERIFY STATUS OF DEVICES, OUTLETS, CONDUIT AND WIRE AS A RELOCATION, DEMOLITION, OR TO REMAIN. FIELD VERIFY RE-FEEDING EXISTING DEVICES, RE-ROUTING OR NEW CIRCUITING. FIELD VERIFY CAPACITY OF CIRCUITS TO COMBINE NEW AND EXISTING RECEPTACLES AND INTERCEPTED CIRCUITS. COMPLY AS REQUIRED FOR CODE RESTRICTIONS AND SPECS.
- J. DISCONNECT POWER TO ELECTRICAL CIRCUITS AND EQUIPMENT IN THESE AREAS ENTIRELY BACK TO PANEL CIRCUIT BREAKER. DISCONNECT AND REMOVE ALL EXISTING CONDUIT, CONDUCTORS, CABLE, CONTROLS, AND BOXES, ETC. FOR THIS DEMO.
- K. DASHED WALLS INDICATE REMOVAL OF WALL PARTIAL OR ENTIRELY. REMOVE ALL ELECTRICAL DEVICES SHOWN ON DASHED WALLS BACK TO SOURCE THAT WILL BE ASSOCIATED WITH REMOVAL OF WALL UNLESS NOTED OTHERWISE. COORDINATE WITH ARCHITECTURAL PRIOR TO START OF WORK.
- L. ALL ELECTRICAL SHOWN IS EXISTING. COORDINATE WITH ALL NOTES & WALLS TO BE REMOVED.
- M. DEMOLITION PLANS HAVE BEEN CREATED FROM EXISTING PLANS AND FIELD OBSERVATION. THEY ARE INTENDED TO GIVE THE GENERAL CONTRACTOR A FAIRLY ACCURATE DESCRIPTION AND SCOPE OF WORK INVOLVED. THEY ARE NOT INTENDED TO BE EXACT AND ALL INCLUSIVE. SOME ADDITIONAL WORK MAY BE REQUIRED AT THE CONTRACTOR EXPENSES. AS IS TYPICAL WITH RENOVATION PROJECTS, CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO STARTING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES OR EQUIPMENT SHALL BE RESPONSIBILITY OF THE CONTRACTOR.

SHEET KEYNOTES

- 1. SALVAGE EXISTING LIGHTING BRANCH CIRCUIT HOMERUN AND CONNECT TO THE NEW LIGHTING BRANCH CIRCUIT.



A1 FIRST FLOOR LIGHTING PLAN



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PROJECT TITLE

ROOSEVELT COUNTY FAIRGROUNDS PAVILLION MULTI PURPOSE

PORTALES NEW MEXICO

REVISIONS:

NO.	DATE	DESCRIPTION

MK DATE DESCRIPTION

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ACE FJT

PROJECT NUMBER:

A1816.23

DATE:

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SHEET TITLE:

DEMOLITION ON LIGHTING PLAN

SHEET NO.:

EL-101

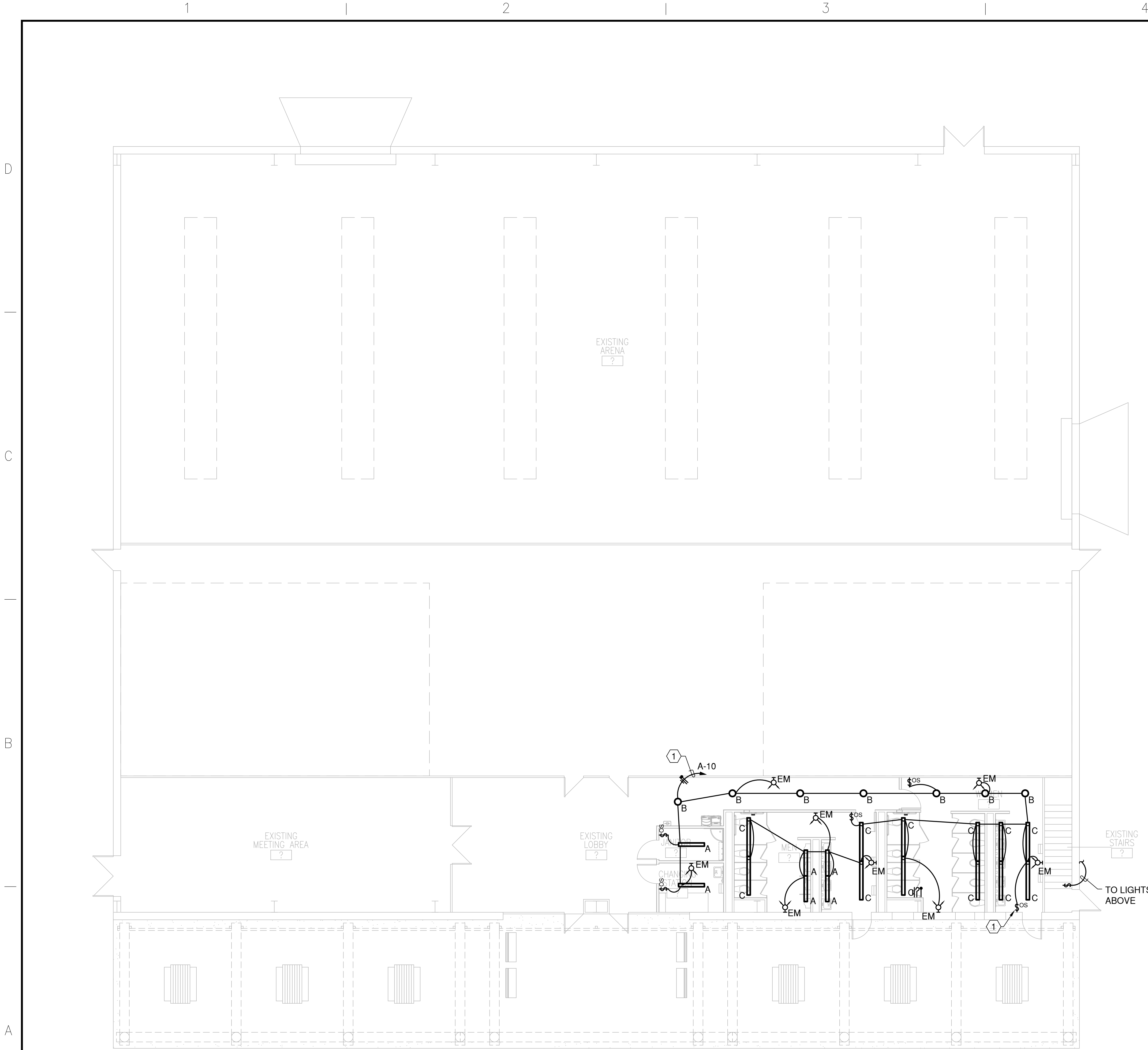
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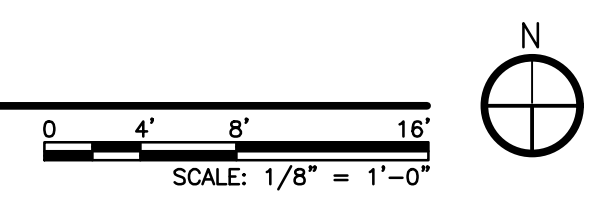
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A1 FIRST FLOOR LIGHTING PLAN

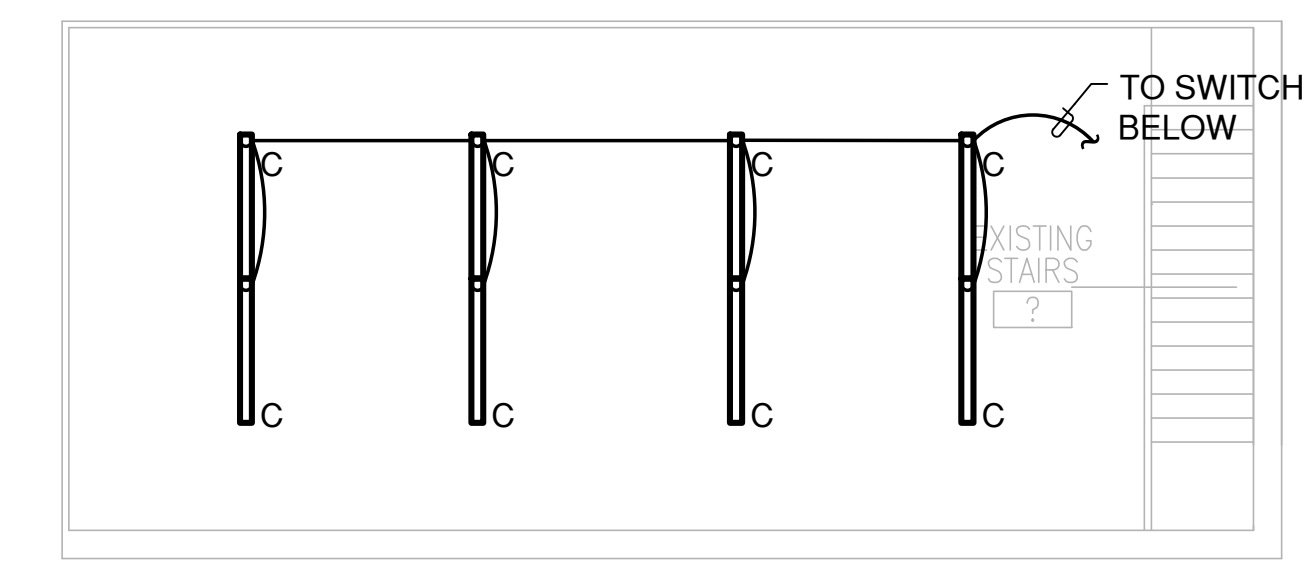


GENERAL SHEET NOTES

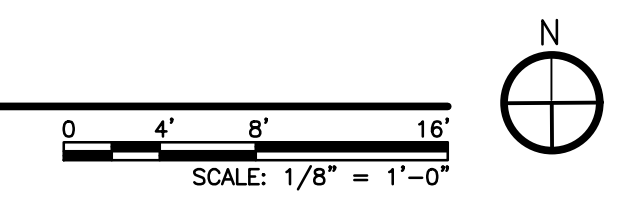
- A. ALL LAY-IN GRID TROFFERS SHALL HAVE FLEXIBLE CONDUIT CONNECTION WITH MINIMUM #12 BRANCH CIRCUITS AND MINIMUM #12 GROUND - NO EXCEPTIONS.
- B. EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED MAXIMUM 8'-0" AFF.
- C. ALL DEVICE PLATES SHALL BE BRUSHED STAINLESS STEEL TYPE. ALL DEVICES SHALL BE WHITE IN COLOR.
- D. COORDINATE THE EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- F. ALL SWITCHES SHALL BE PROVIDED WITH PERMANENT LABELING IDENTIFYING PANEL AND BRANCH CIRCUIT CONNECTED TO.
- G. ALL HOMERUNS OVER 100' TO BE MINIMUM 3/4" C WITH MINIMUM #10 BRANCH CIRCUITS.
- H. ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES SHALL COMPLY WITH NEW MEXICO DARK SKIES ACT. REFER TO THE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATION PRIOR TO ROUGH-IN OF FIXTURES.
- J. ALL LIGHTING BRANCH CIRCUITS SHALL BE MINIMUM 2#12 + 1#12GR IN .5" C UNLESS OTHER INDICATED.

SHEET KEYNOTES

1. EXISTING LIGHTING BRANCH CIRCUIT HOMERUN. CONNECT TO THE NEW LIGHTING BRANCH CIRCUIT PREVIOUSLY REMOVED.



A5 SECOND FLOOR PLAN



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PROJECT TITLE

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PORTALES NEW MEXICO

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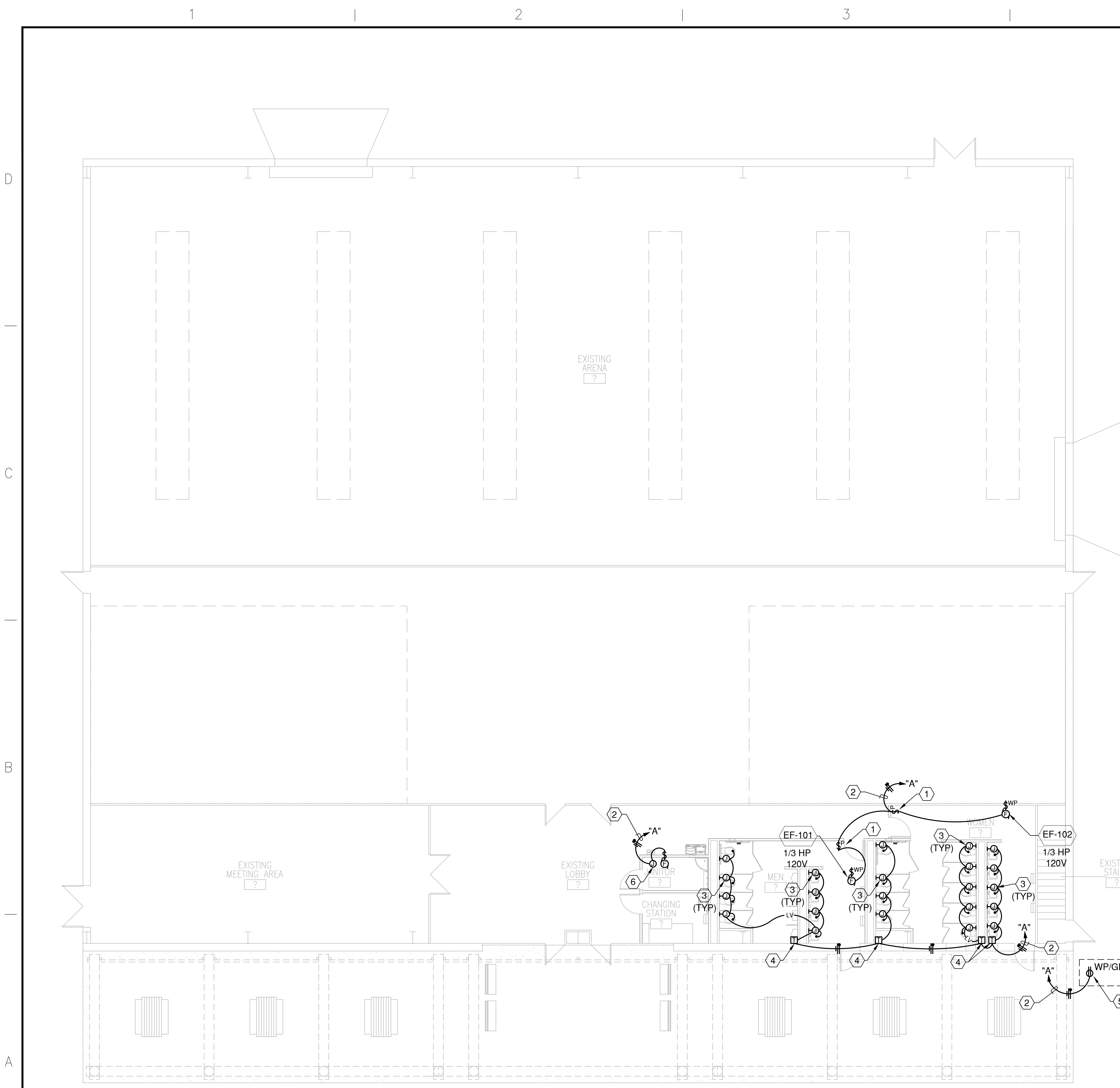
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LIGHTING PLAN

SHEET NO:

EL-101



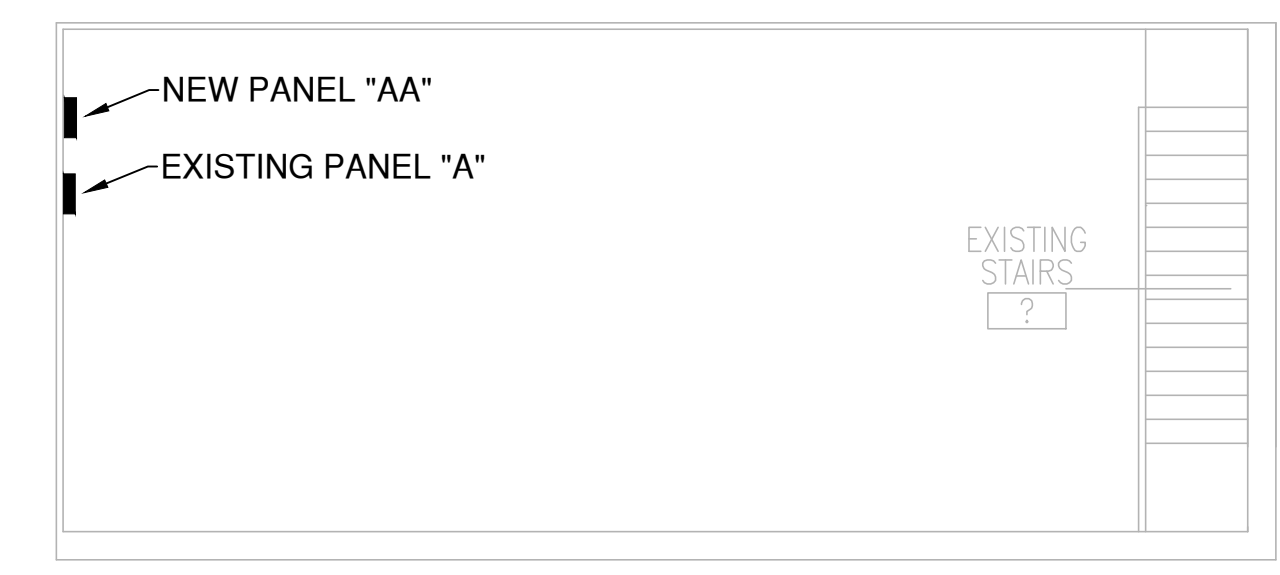
A1 FIRST FLOOR POWER PLAN

GENERAL SHEET NOTES

- A. ALL DEVICE PLATES AND DEVICES SHALL BE WHITE IN COLOR. COORDINATE WITH ARCHITECT.
- B. ALL RECEPTACLES SHALL BE PROVIDED WITH PERMANENT LABELING IDENTIFYING PANEL AND BRANCH CIRCUIT CONNECTED TO.
- C. ALL OUTLETS TO BE MOUNTED IN CONFORMANCE WITH ADA RULES AND REGULATIONS.
- D. COORDINATE OUTLET HEIGHTS AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS (CASEWORK, SINKS, LAVATORIES, ETC.)
- E. ALL DUPLEX OUTLETS LOCATED WITHIN 6' OF ALL SINKS, IN ALL RESTROOMS, IN ALL JANITOR CLOSETS, EXTERIOR OF BUILDING, ON THE ROOF AND, ELSEWHERE AS DICTATED BY NEC, SHALL BE 20A GFI TYPE.
- F. ALL HOMERUNS OVER 100' TO BE MINIMUM 3/4" WITH MINIMUM #10 BRANCH CIRCUITS.
- G. ALL BRANCH CIRCUITS SHALL BE MINIMUM 2#12 + 1#12 GROUND IN .5" CONDUIT, UNLESS OTHERWISE INDICATED.
- H. ALL WEATHERPROOF DUPLEX RECEPTACLES SHALL BE PROVIDED WITH LOCKABLE, UNIVERSAL METAL WEATHERPROOF IN-USE COVER. PLASTIC WILL NOT BE ACCEPTED UNDER ANY CONDITION.
- I. COORDINATE ALL ROUTING OF CONDUIT AND PLACEMENT OF DEVICES WITH OTHER EQUIPMENT AND EXISTING CONDITIONS.
- J. FOR EXACT LOCATIONS OF ALL FLOOR BOXES COORDINATE WITH CASEWORK/ARCHITECT. SHOWN AT GENERAL LOCATION FOR REFERENCE.

KEY SHEET KEYNOTES

- 1. PROVIDE KEYED PILOT LIGHT SWITCH FOR THE NEW TOILET EXHAUST FAN. LABEL "EXHAUST FAN". EXTEND THE SWITCHED CONTROL BRANCH CIRCUIT UP TO THE NEW EXHAUST FAN ON THE ROOF. COORDINATE LOCATION AND REQUIREMENTS WITH MECHANICAL TO AVOID ALL CONFLICTS OF RESPONSIBILITIES.
- 2. EXTEND NEW 120V, 20A BRANCH CIRCUIT TO NEW PANEL "AA" LOCATED IN THE UTILITY ROOM ON THE 2ND FLOOR DIRECTLY ABOVE THE RESTROOMS. THE CONTRACTOR SHALL REMOVE TWO (2) ADJACENT 20A/1P CIRCUIT BREAKERS IN EXISTING PANEL "A". INSTALL NEW 50A/2P CIRCUIT BREAKER. EXTEND NEW 3#6 THHN/THWN (CU) + 1#10 THHN/THWN (CU) GR IN 1.5" FROM THE NEW 50A/2P CIRCUIT BREAKER TO NEW PANEL "AA". RE-FEED THE TWO (2) EXISTING 120V, 20A BRANCH CIRCUIT PREVIOUSLY REMOVED FROM PANEL "A" TO NEW PANEL "AA". PROVIDE NEW PANEL "AA" RATED 120/240V, 1PH, 3W, 100A MAIN LUGS WITH TWELVE (12) 20A/1P CIRCUIT BREAKERS. VERIFY WITH EXISTING FIELD CONDITIONS AND COMPLY AS REQUIRED.
- 3. PROVIDE J-BOX WITH LOW VOLTAGE WIRING TO THE AUTO SENSOR IN THE PLUMBING FIXTURE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL J-BOXES, TRANSFORMERS, LOW VOLTAGE AND 120V WIRING, AS MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. VERIFY WITH MECHANICAL TO AVOID ALL CONFLICTS OF RESPONSIBILITIES.
- 4. AUTO SENSOR TRANSFORMER. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE 120V AND 24V WIRING AND CONNECTIONS. COORDINATE LOCATION WITH MECHANICAL AND PROVIDE IN CONVENIENT AND ACCESSIBLE LOCATION.
- 5. HOT BOX LOCATED ON THE EXTERIOR OF THE BUILDING. COORDINATE LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN. PROVIDE CONNECTION TO THE HEAT TAPE AND VERIFY WITH MECHANICAL WIRING CONNECTIONS AND REQUIREMENTS.
- 6. J-BOX FOR CONNECTION TO THE TANKLESS WATER HEATER AND HW CIRC PUMP. VERIFY LOCATION AND REQUIREMENTS WITH MECHANICAL AND PROVIDE ALL POWER AND CONTROL CONNECTIONS AS MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION.



A5 SECOND FLOOR POWER PLAN



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PROJECT TITLE

ROOSEVELT COUNTY FAIRGROUNDS PAVILLION MULTI PURPOSE

PORTALES NEW MEXICO

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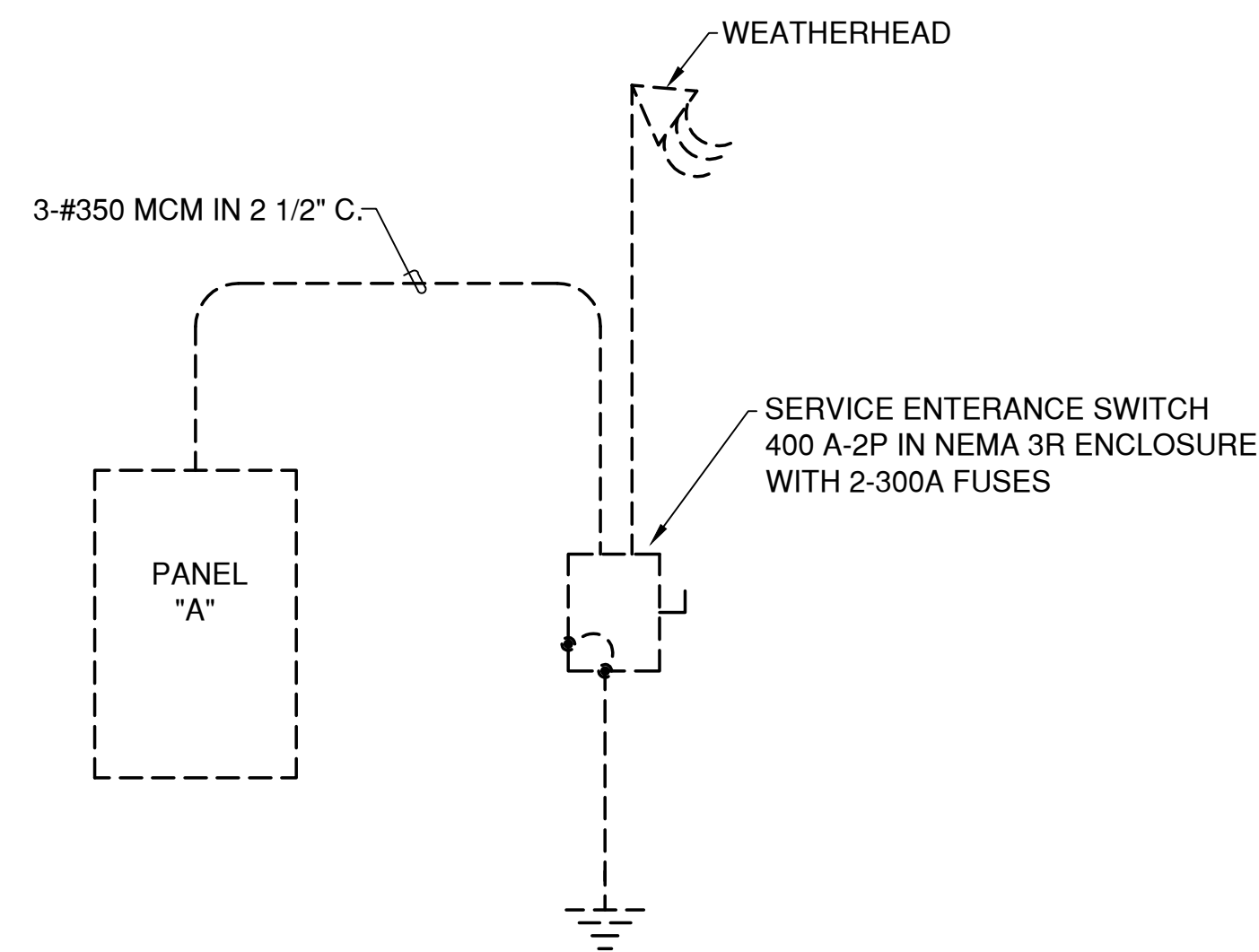
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SHEET NO: EP-101



POWER RISER DIAGRAM

LOAD SUMMARY - 120/208V - 3PH - 4W

LOAD	CONNECTED LOAD	DEMAND LOAD
PANEL "A" PEAK KW	25 KW	25 KW
PLUS 25% PEAK PER NEC	6 KW	6 KW
NEW PANEL "F" LOADS	27 KW	27 KW
TOTAL	58 KW	58 KW = 161 AMPERES
THE EXISTING 200A SERVICE IS ADEQUATELY RATED FOR THE PROPOSED DEMAND LOAD		

SHORT CIRCUIT CALCULATIONS

ASSUME 75 KVA PAD MOUNT TRANSFORMER WITH UNLIMITED PRIMARY SCA AND 2% Z. MAXIMUM LET THROUGH ON SECONDARY SIDE OF TRANSFORMER = 10,417 AMPERES. MAXIMUM CALCULATED FAULT AT MAIN BUILDING DISCONNECT SWITCH = 8,190A. CALCULATED FAULT AT NEW PANEL "F" = 3,332A. NOTE: NEW 120/208V BRANCH CIRCUIT PANELBOARD "F" SHALL BE PROVIDED WITH 10KAIR CIRCUIT BREAKERS.

SHEET KEYNOTES



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POWER RISER DIAGRAM PANEL SCHEDULE

SHEET NO:

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