

LOCKER ROOM RENOVATIONS
GLASTONBURY POLICE DEPARTMENT

2108 MAIN ST
GLASTONBURY, CT 06033
GLASTONBURY TRACKING #
GL-2017-26

ISSUED
MARCH 15, 2017
PROJECT DIRECTORY

DRAWING LIST

COVER	
A-110	MEN'S LOCKER ROOM PLANS
A-120	WOMEN'S LOCKER ROOM PLANS
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E-210	ELECTRICAL NOTES, PANELBOARD & SYMBOLS LIST

MEP/FP CONSULTANT

BEMIS ASSOCIATES, LLC

185 MAIN ST
FARMINGTON, CT 06032
860-667-3233

ARCHITECTS &
INTERIOR DESIGN

JCJARCHITECTURE
120 HUYSHOPE AVE, SUITE 400
HARTFORD, CT 06106
860.247.9226

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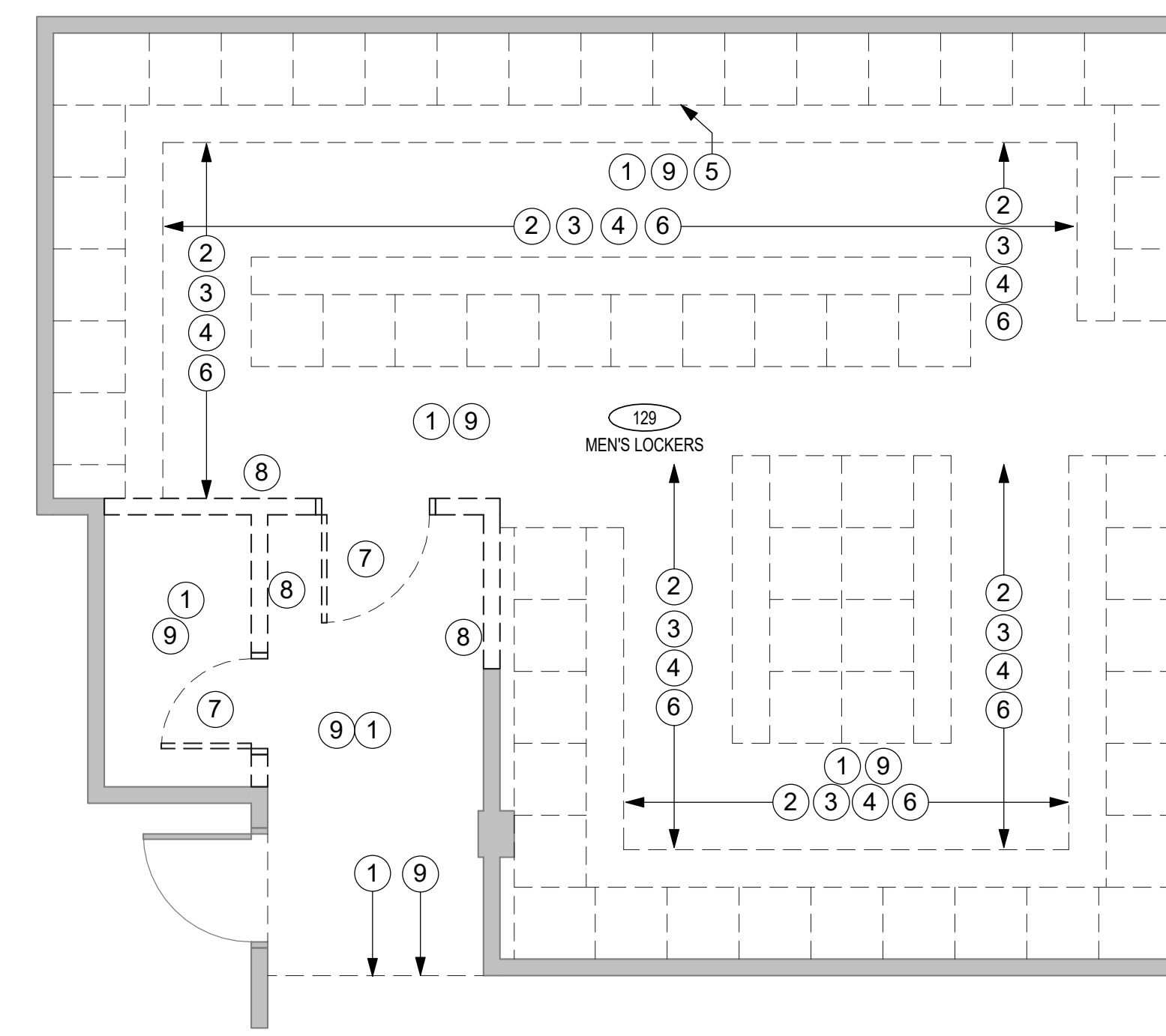
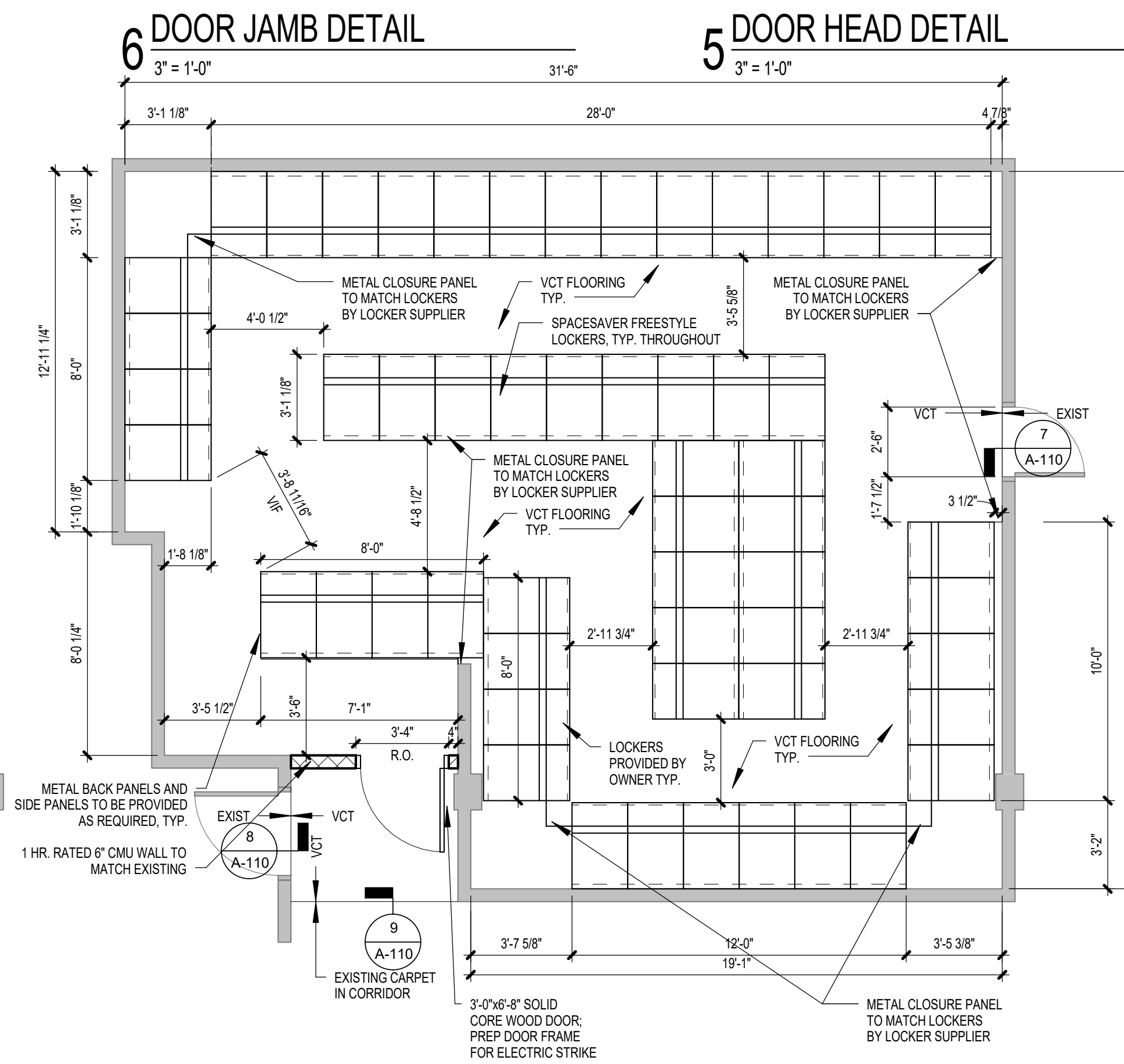
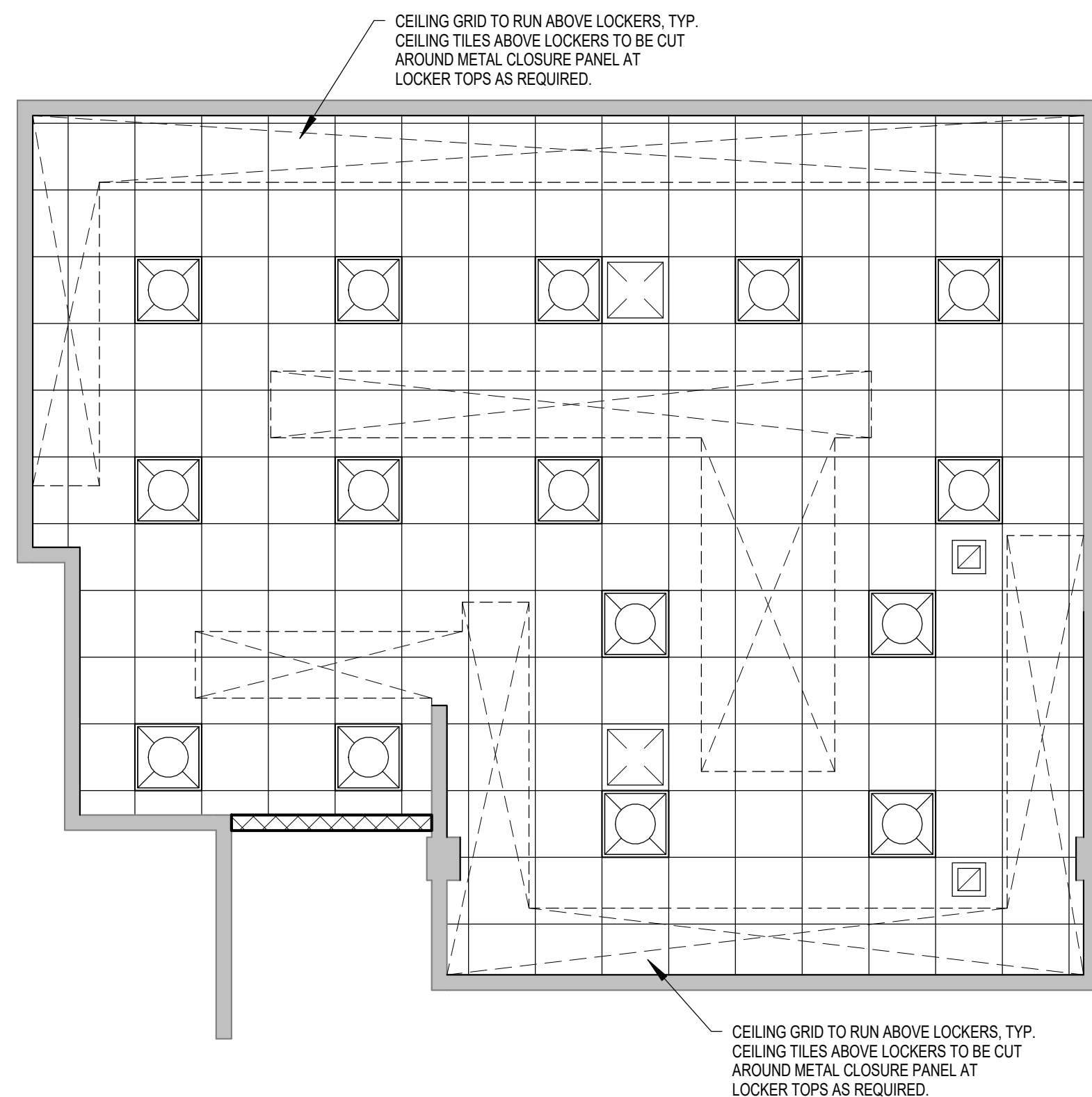
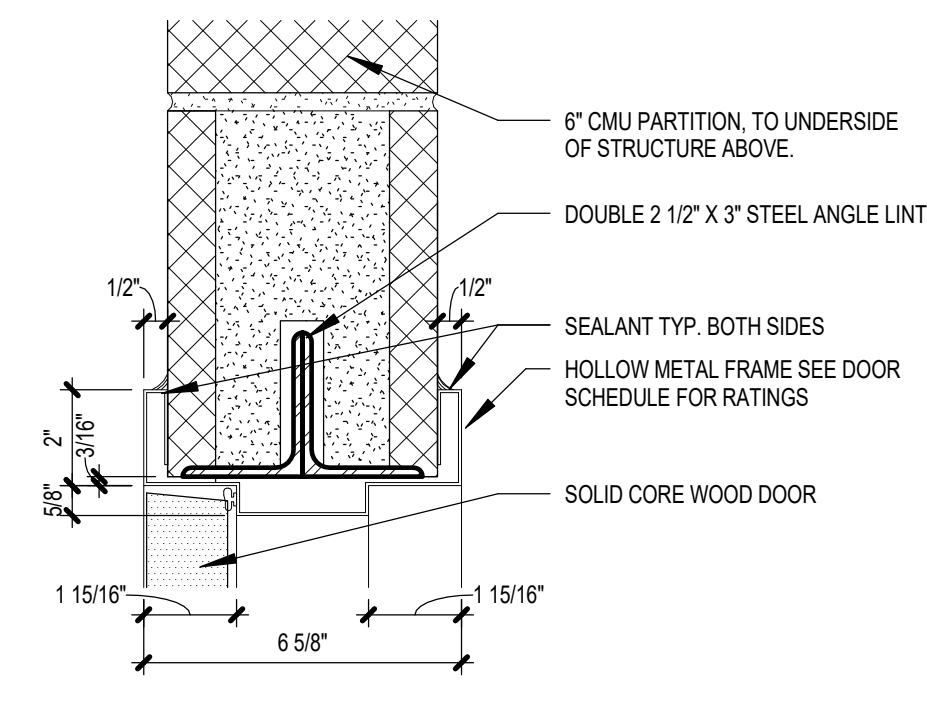
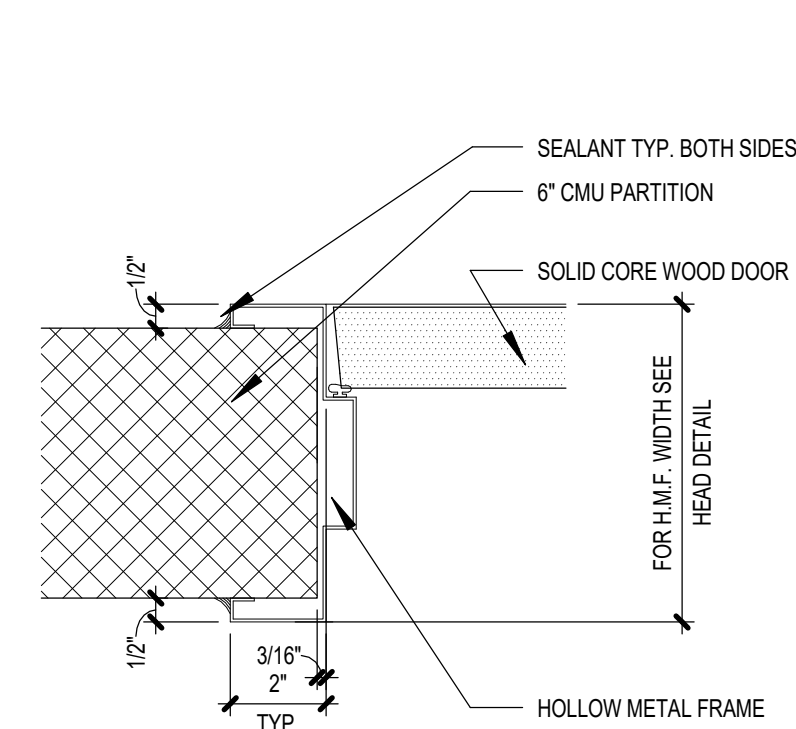
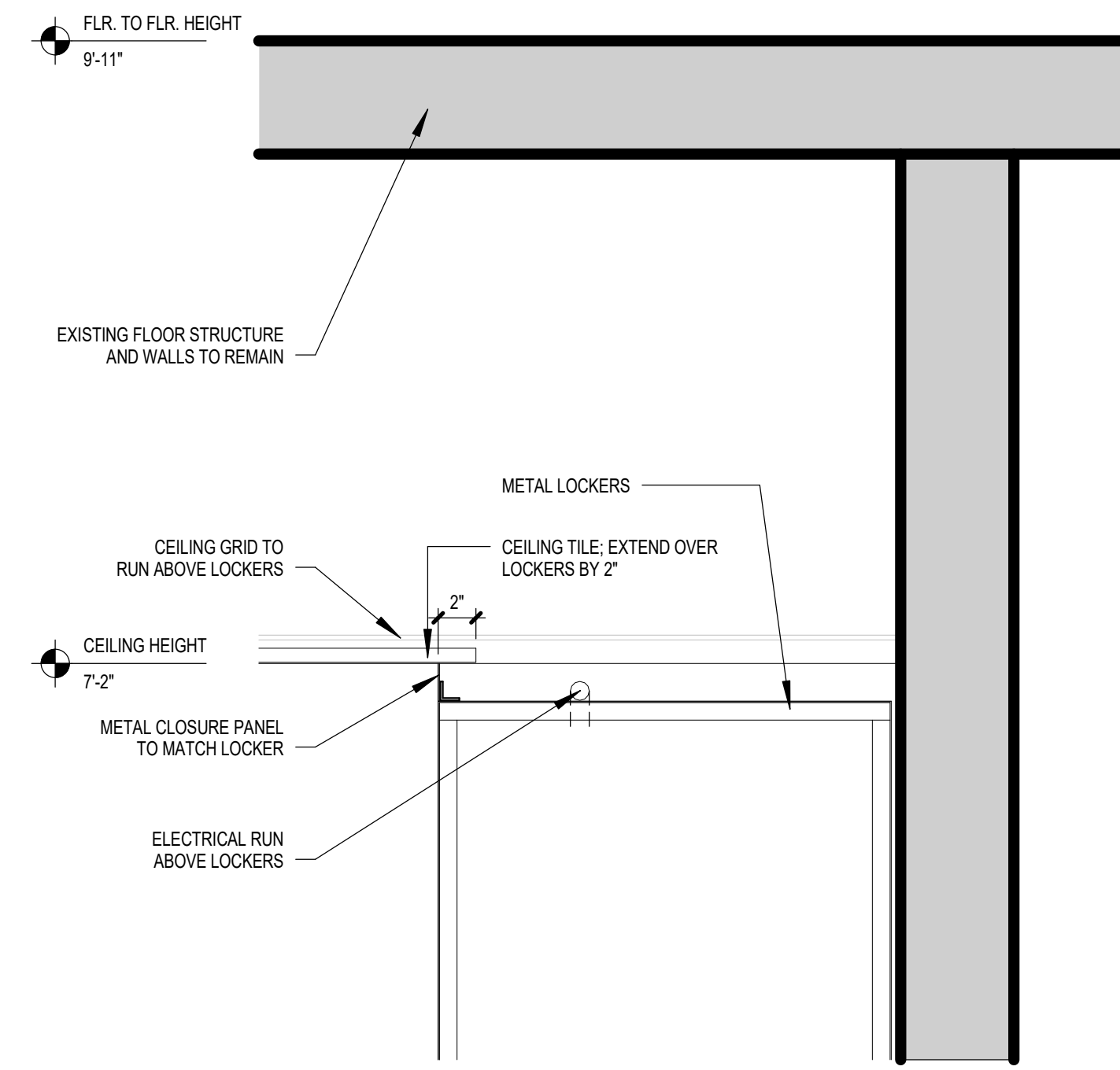
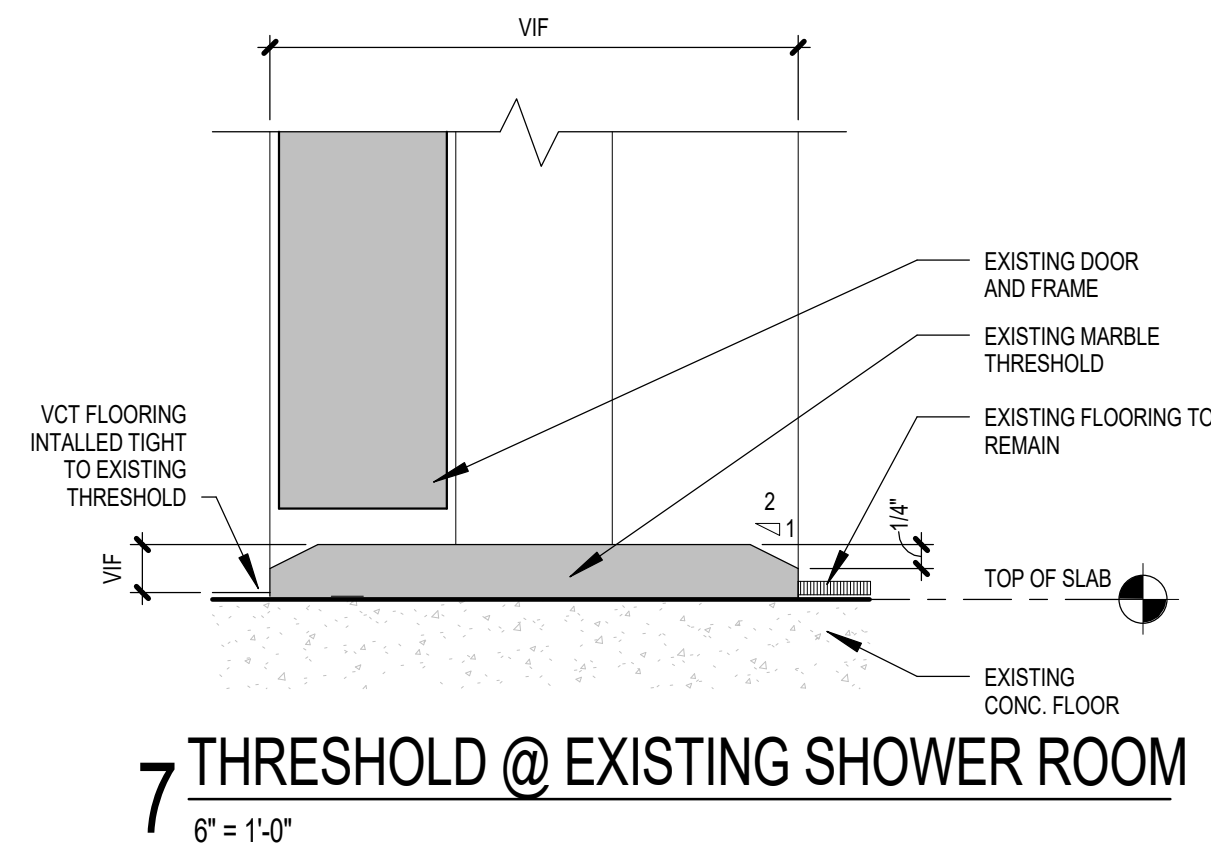
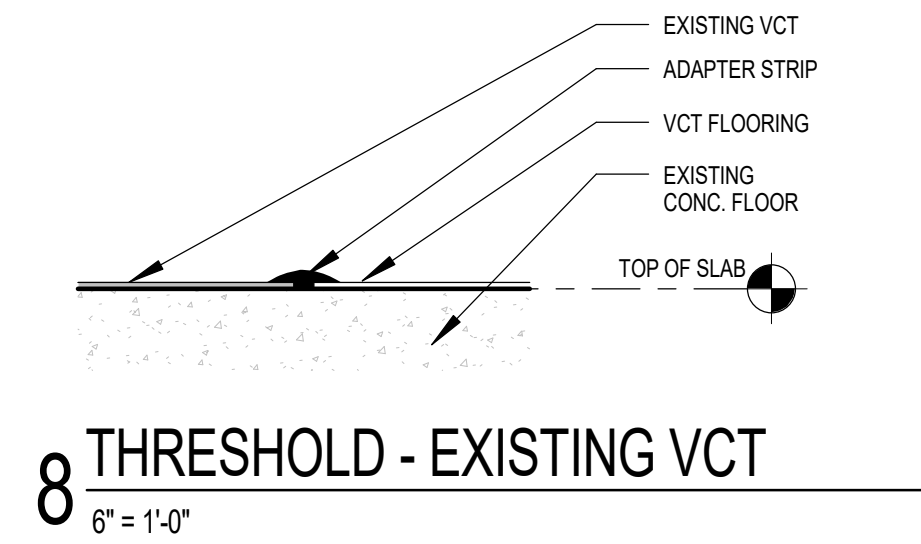
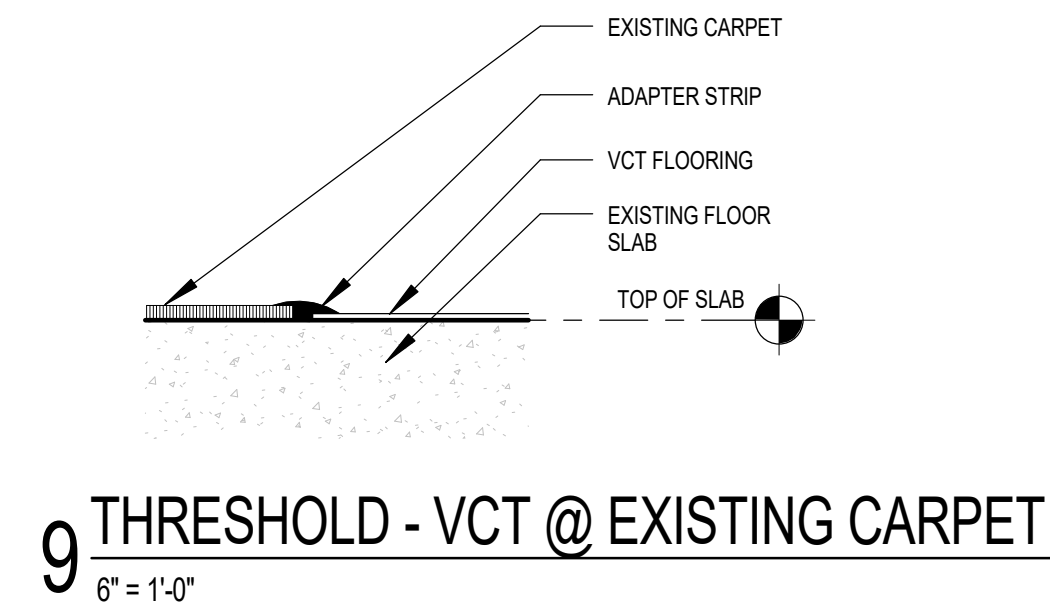
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HARTFORD, CT 06106
860.247.9226

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GENERAL NOTES

- OWNER TO TEST EXISTING FLOORING TO BE REMOVED FOR ASBESTOS CONTAINING MATERIALS (ACM)
- OWNER TO REMOVE ACM BY SEPARATE CONTRACT.
- EXISTING WALLS IN MEN'S LOCKER ROOM AND ALL NEW WALLS TO BE PAINTED WITH EPOXY PAINT.
- REFER TO SPECIFICATIONS FOR NEW SUSPENDED CEILING PANEL SYSTEM INFORMATION
- PATCH AND REPAIR ANY DAMAGE TO EXISTING CONSTRUCTION TO REMAIN AS A RESULT OF DEMOLITION. FINISH TO MATCH.
- PATCH/FILL ALL ABANDONED WALL PENETRATIONS WITH MATERIALS TO MATCH EXISTING.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD.
- AT CORRIDOR, PROVIDE NEW 3'-0" X 8'-0" SOLID CORE WOOD DOOR IN 18GA METAL FRAME TO MATCH EXISTING.
- PROVIDE NEW VCT FLOORING AT LOCKER ROOM.
- LOCKERS TO BE PROVIDED BY OWNER, G.C. TO COORDINATE INSTALLATION.
- ELECTRONIC DOOR LOCK PROVIDED BY OWNER, G.C. TO PREPARE DOOR AND FRAME FOR ELECTRONIC DOOR LOCK, G.C. TO INSTALL ELECTRONIC LOCK PROVIDED BY OWNER.
- OWNER TO HAVE RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ITEMS.
- PROVIDE [VCT-1] AND [VCT-2] IN A CHECKERBOARD PATTERN



DEMOLITION SCHEDULE

1	FLOORING, WALL BASE, AND ADHESIVES TO BE TESTED FOR HAZARDOUS MATERIALS. REMOVE ACCORDINGLY.
2	REMOVE MASONRY LOCKER BASE AND ASSOCIATED CONSTRUCTION
3	REMOVE LOCKERS AND ASSOCIATED CONSTRUCTION
4	REMOVE ELECTRICAL OUTLETS AND CONDUITS
5	REMOVE HEATING ELEMENT AND PIPING; CAP AND ABANDON
6	REMOVE BENCH AND ASSOCIATED CONSTRUCTION
7	REMOVE DOOR AND FRAME
8	REMOVE WALL AND ASSOCIATED CONSTRUCTION
9	REMOVE CEILING AND ASSOCIATED MEP ELEMENTS
10	REMOVE CERAMIC TILE BASE AND PATCH WALL FOR NEW VINYL BASE. FLASH PATCH AND LEVEL EXISTING CERAMIC TILE FLOOR TO PREPARE FOR NEW VCT FLOORING INSTALLATION.

P.I.C. _____ L.D. _____
P.M. _____ P.A. _____
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REVISIONS:

LOCKER ROOM PLANS

A-110

LOCKER ROOM RENOVATIONS GLASTONBURY POLICE DEPARTMENT

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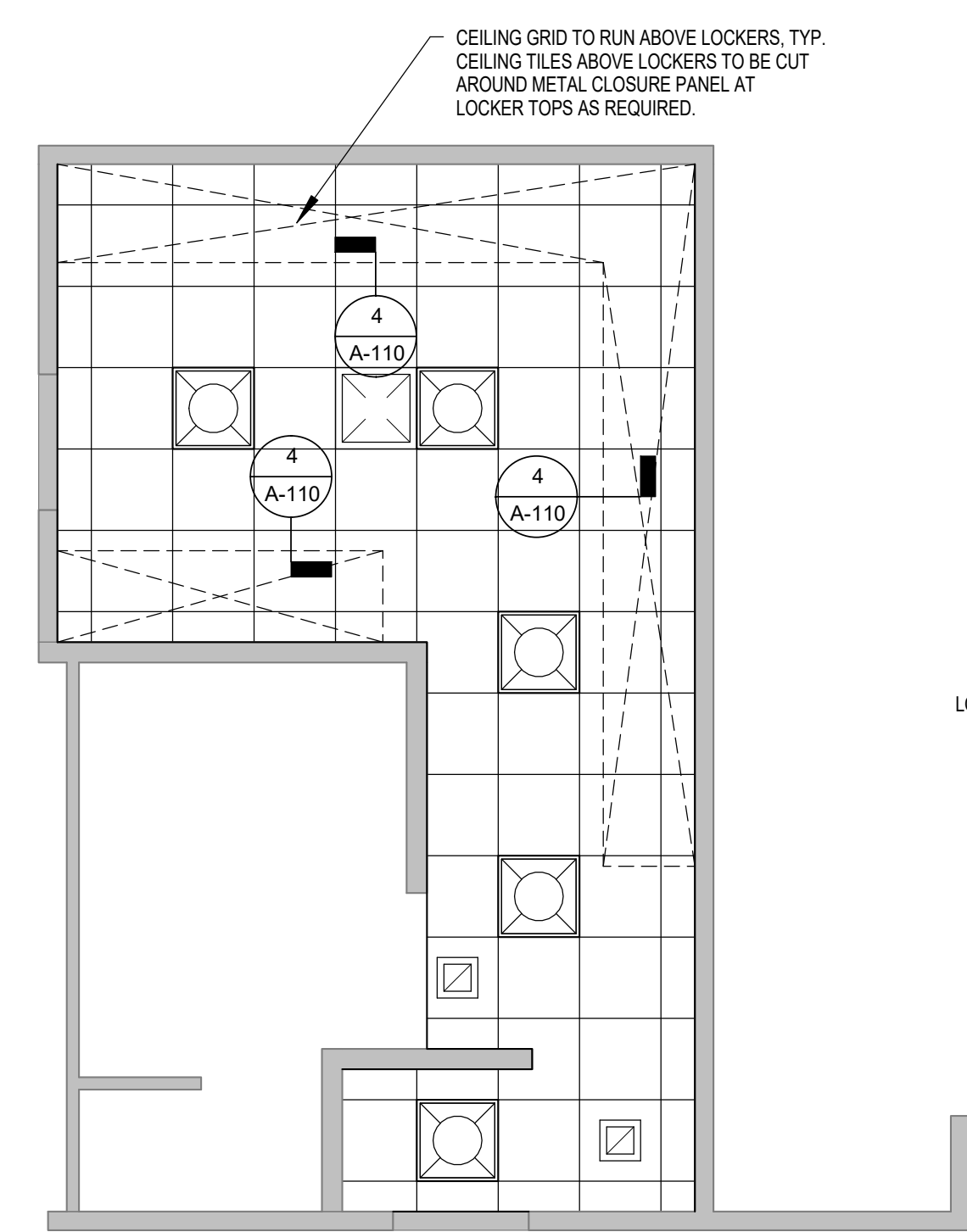
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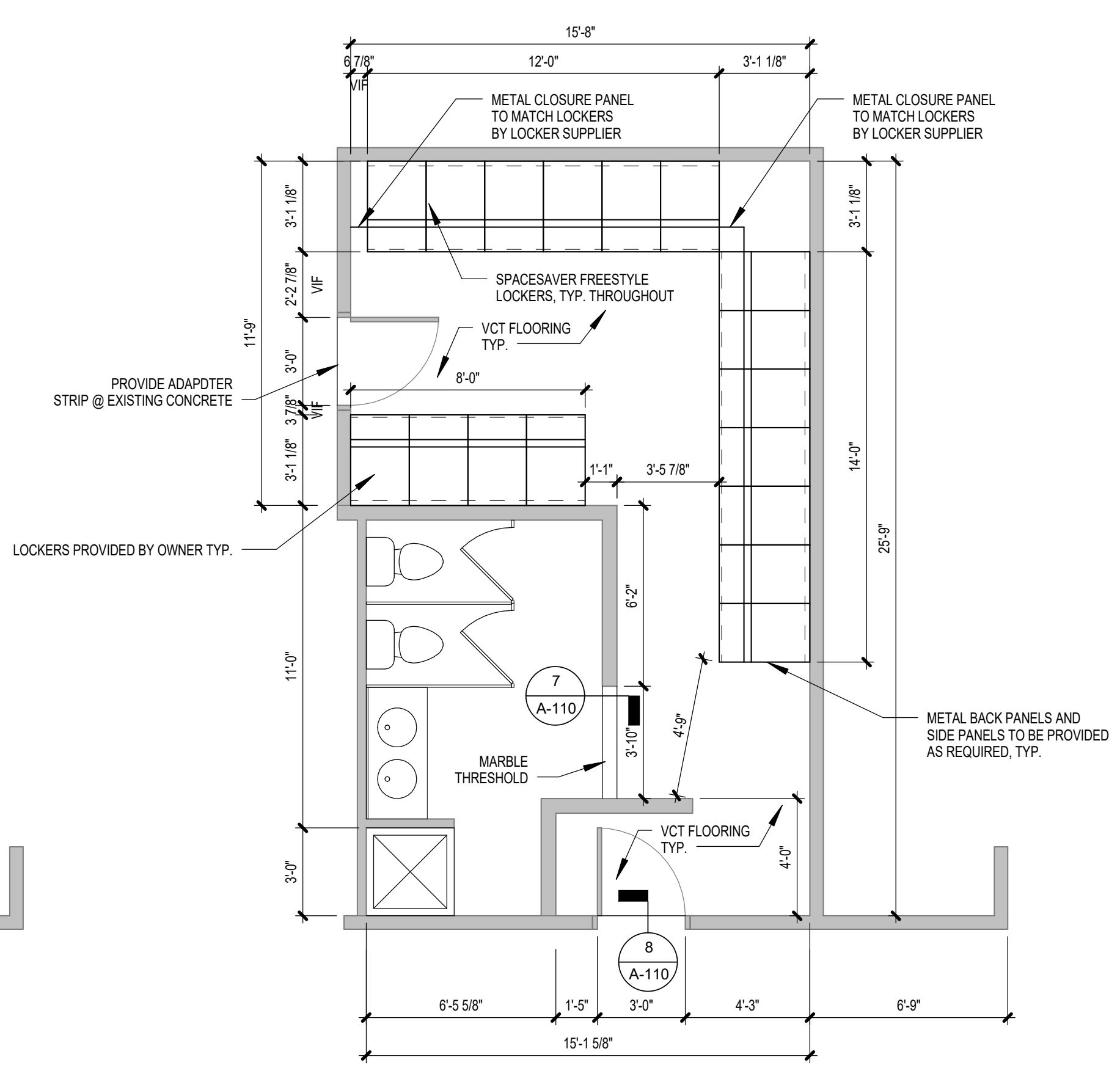
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7. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD.
8. PROVIDE NEW VCT FLOORING AT LOCKER ROOM.
9. LOCKERS PROVIDED BY OWNER. G.C. TO COORDINATE INSTALLATION.
10. OWNER TO HAVE RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ITEMS.
11. PROVIDE [VCT-3] AND [VCT-4] IN A CHECKERBOARD PATTERN

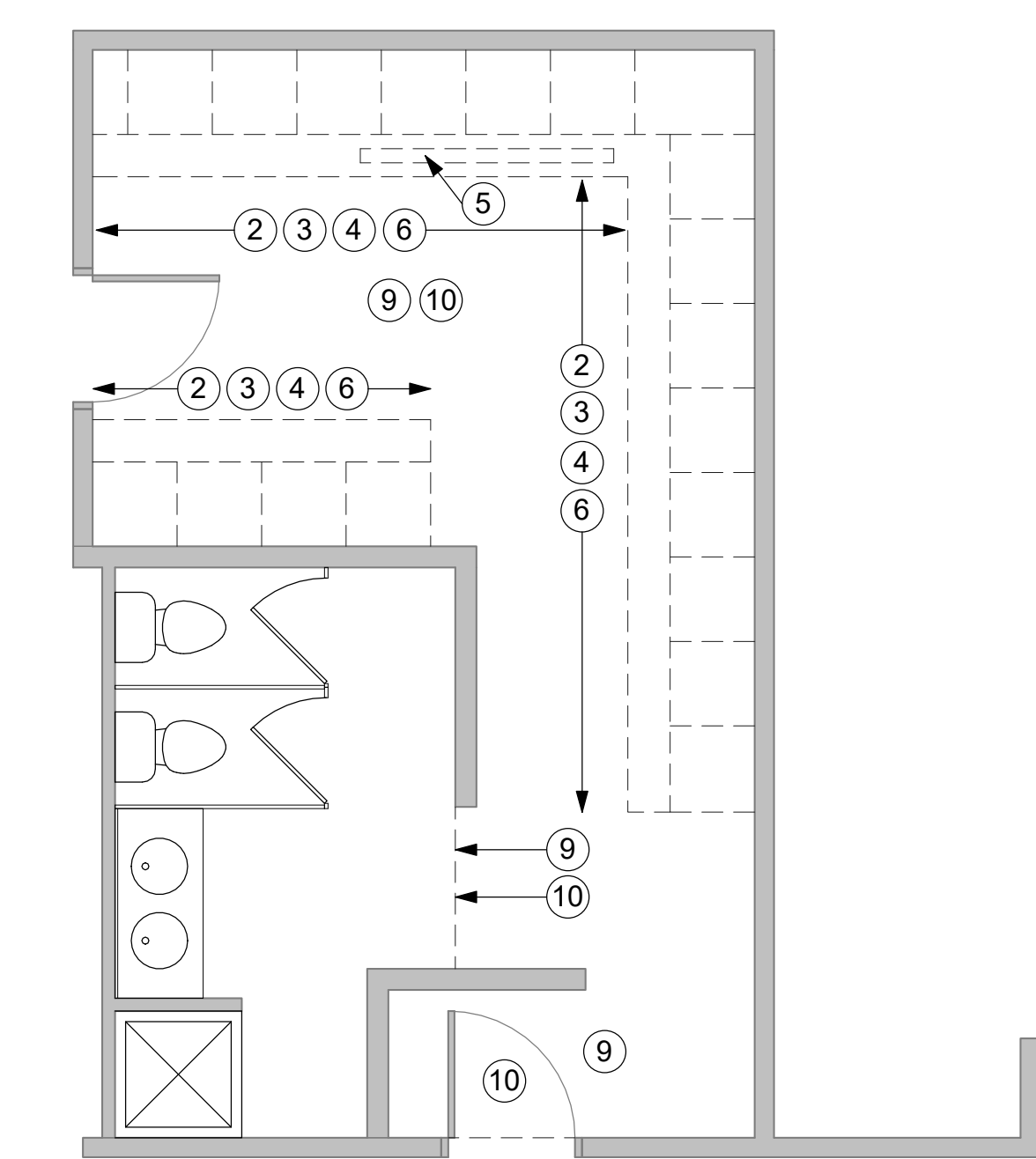


3 WOMENS LOCKER REFLECTED CEILING PLAN
1/4" = 1'-0"



2 WOMENS LOCKER FLOOR PLAN
1/4" = 1'-0"

NOTE: PROVIDE FLOOR LEVELING COMPOUND FOR INSTALLATION OF NEW VCT FLOORING TO BE FLUSH WITH ADJACENT FLOORS.



1 WOMENS LOCKER DEMOLITION PLAN
1/4" = 1'-0"

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LOCKER ROOM PLANS

A-120

GLASTONBURY POLICE DEPARTMENT LOCKER ROOMS

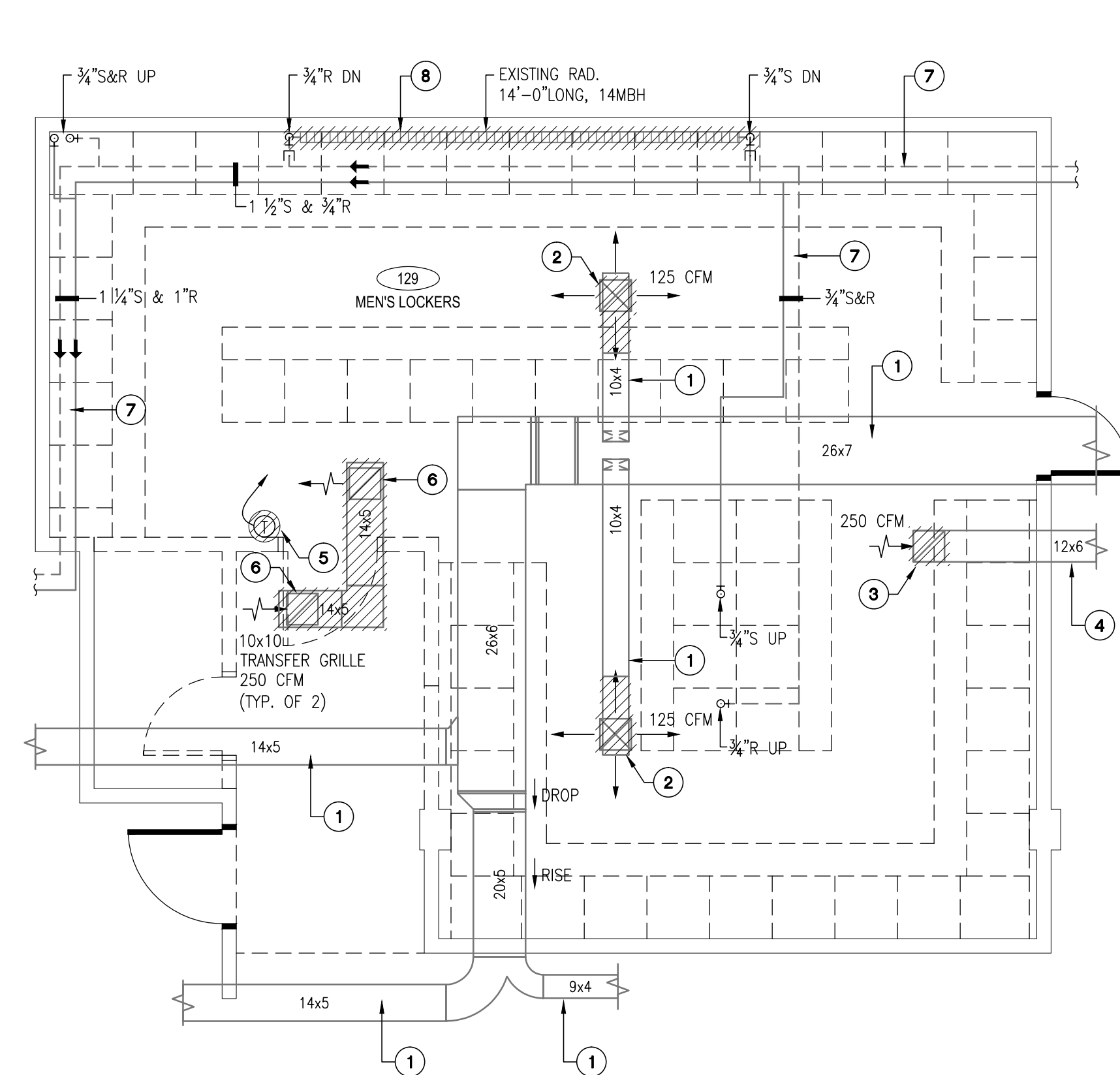
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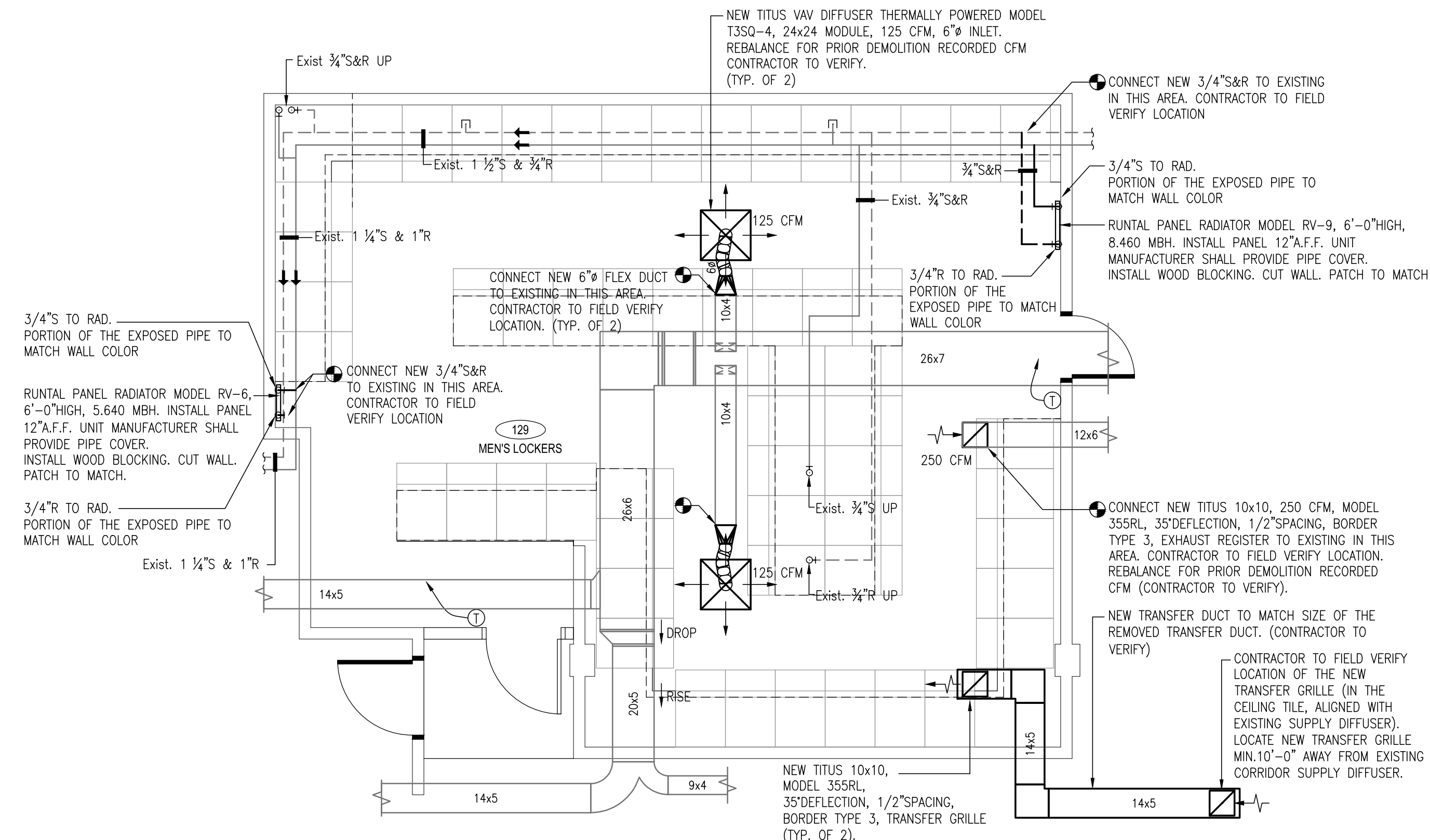
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1 MENS LOCKER DEMOLITION PLAN - MECHANICAL
1/4" = 1'-0"



2 MENS LOCKER FLOOR PLAN - MECHANICAL NEW WORK
1/4" = 1'-0"

GENERAL DEMOLITION NOTES :

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITY LINES INCLUDING ELECTRICAL, SEWER, WATER, GAS, TELEPHONE, ETC. THE DRAWINGS SHOW DIAGRAMMATICALLY THE APPROXIMATE LOCATION OF UTILITIES WHERE INFORMATION IS AVAILABLE, BUT THE DRAWINGS ARE NOT EXACT AS TO THE QUANTITY, EXTENT OR LOCATION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING ALL PHASES OF THE WORK TO LOCATE, IDENTIFY, AND PROTECT EXISTING UTILITIES. THE CONTRACTOR SHALL RECORD LOCATION OF AND REPAIR DAMAGE TO EXISTING UTILITIES WHICH ARE ENCOUNTERED AS A RESULT OF WORK UNDER THIS CONTRACT.

ANY EQUIPMENT REMOVED DURING DEMOLITION WORK MAY BE RETAINED BY THE OWNER AT HIS OPTION. ANY SUCH MATERIAL SHALL BE STORED IN THE BUILDING AT A LOCATION DESIGNATED BY THE OWNER. REMOVAL OF SUCH MATERIAL FROM THE JOB SITE SHALL BE THE OWNER'S RESPONSIBILITY.

COORDINATE ALL DEMOLITION WORK WITH THE REQUIREMENTS OF THE NEW SCOPE OF WORK.

REMOVE AND REPLACE EXISTING DIFFUSERS AND REGISTERS IN AREA WITH NEW CEILING IN CONTRACT AREA. CONTRACTOR SHALL MEASURE, RECORD AND SUBMIT REPORT FOR ALL THE EXISTING AIR DIFFUSERS AND REGISTERS PRIOR TO ANY DEMOLITION.

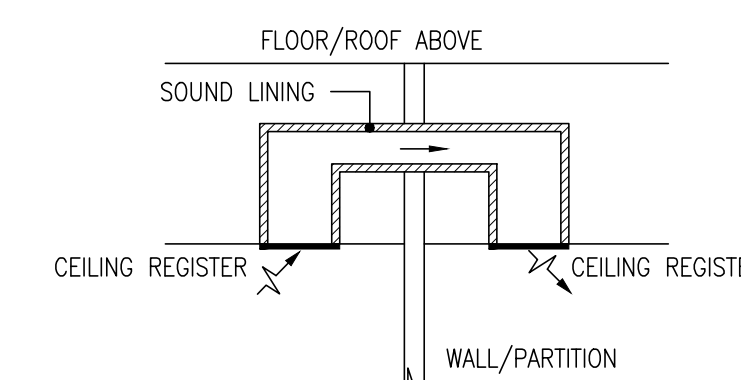
DEMOLITION NOTES :

KEY NOTES DESCRIBE IN GENERAL THE SCOPE OF EQUIPMENT REMOVED. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH NEW WORK PLANS PRIOR TO REMOVING THE ITEM.

- 1 EXISTING SUPPLY DUCTWORK SHALL REMAIN.
- 2 EXISTING VAV SUPPLY DIFFUSER SHALL BE REPLACED. TEMPORARILY CAP REMAINING FOR FUTURE CONNECTION.
- 3 EXISTING EXHAUST REGISTER SHALL BE REPLACED. TEMPORARILY CAP REMAINING FOR FUTURE CONNECTION.
- 4 EXISTING EXHAUST DUCT SHALL REMAIN.
- 5 EXISTING THERMOSTAT SHALL BE REMOVED
- 6 EXISTING TRANSFER DUCT AND ASSOCIATED REGISTERS SHALL BE REMOVED.
- 7 EXISTING S&R PIPES SHALL REMAIN.
- 8 EXISTING RADIATION SHALL BE REMOVED. CAP S&R AT MAIN.
- 9 EXISTING TRANSFER GRILLE SHALL BE REPLACED. TEMPORARILY CAP REMAINING FOR FUTURE CONNECTION
- 10 EXISTING THERMOSTAT SHALL BE REPLACED

GENERAL NOTES :

1. DUCT SIZES ARE CLEAR INSIDE DIMENSION.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK, NOT EXACT EQUIPMENT, DUCTWORK AND PIPING LOCATIONS. MECHANICAL CONTRACTOR SHALL COORDINATE EQUIPMENT, DUCTWORK AND PIPING LOCATIONS WITH OTHER TRADES BEFORE WORK BEGINS. DUCT AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF SHALL BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL PLANS.
3. THE LOCATION OF ALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE COORDINATED WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.



TYPICAL TRANSFER DUCT DETAIL
NO SCALE

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LOCKER ROOM
PLANS

M-110

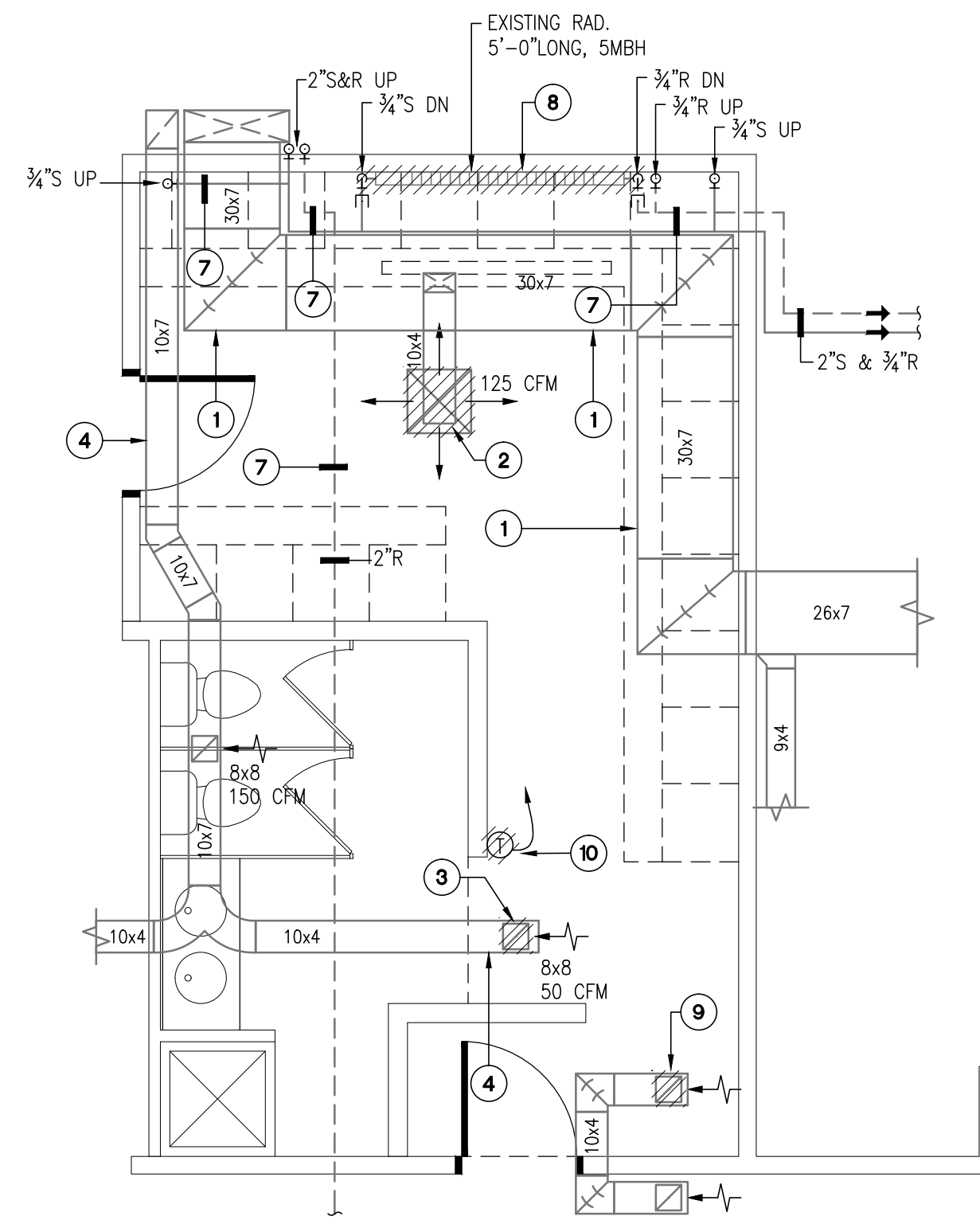
GLASTONBURY POLICE DEPARTMENT LOCKER ROOMS

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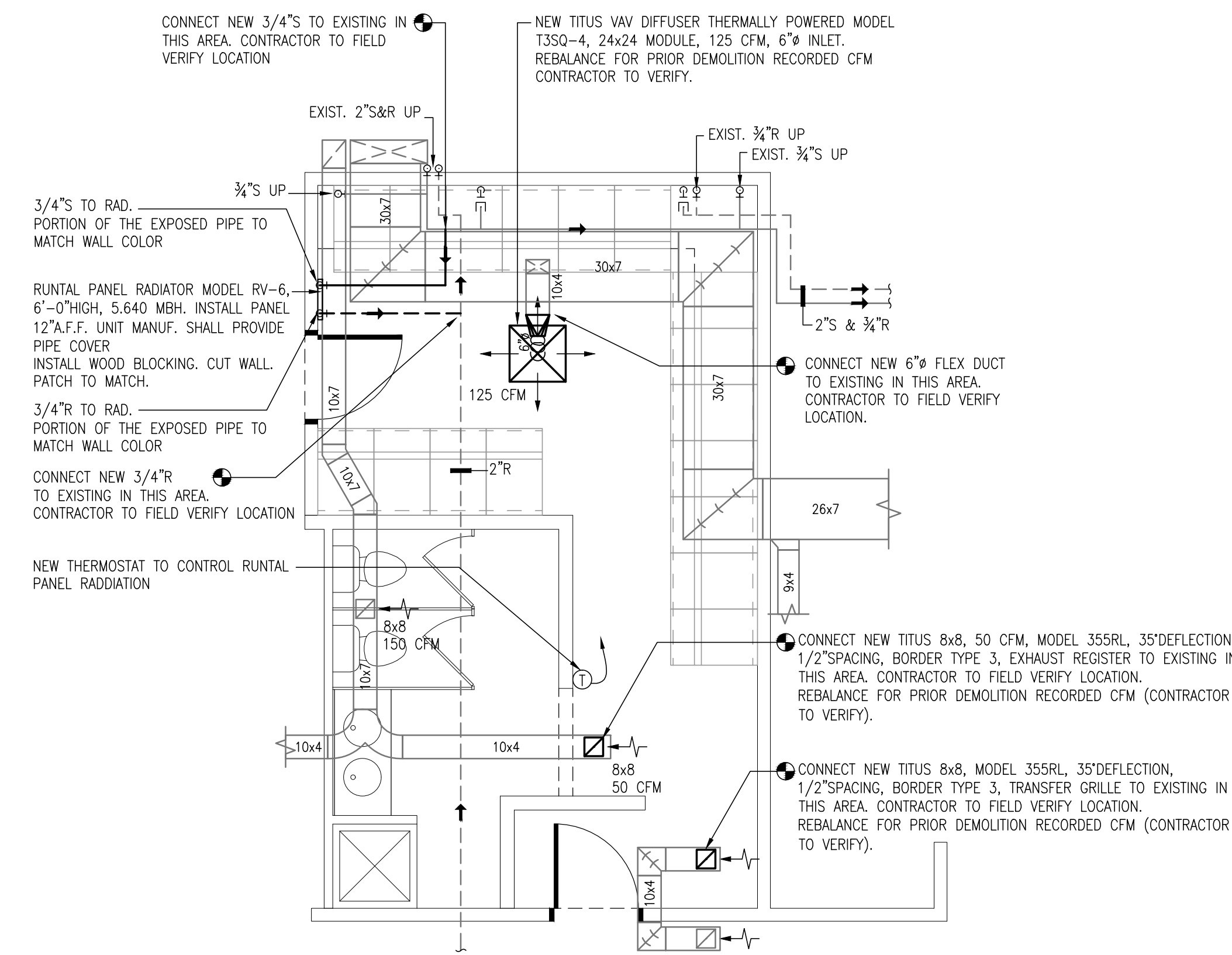
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1 WOMENS LOCKER DEMOLITION PLAN - MECHANICAL
1/4" = 1'-0"



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REVISIONS:

**WOMENS LOCKER ROOM
PLANS**

M-120

**PERFORMANCE SPECIFICATION
SECTION 23 00 00 - HEATING, VENTILATING AND AIR CONDITIONING**

PART 1 - GENERAL REQUIREMENTS

101 SCOPE OF WORK

WORK UNDER THIS SECTION SHALL INCLUDE ALL LABOR, PERMITS, MATERIALS, SERVICES, EQUIPMENT, TRANSPORTATION AND OTHER INCIDENTALS NECESSARY TO FURNISH, INSTALL AND TO CONSTRUCT ALL HVAC SYSTEMS INCLUDING:

- SHEET METAL WORK
- PIPING
- DUCT AND PIPING INSULATION
- AUTOMATIC TEMPERATURE CONTROLS

102 SUBMITTALS

ISSUE ELECTRONIC COPIES OF MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS AND SHOP DRAWINGS FOR ALL ITEMS OF THE HVAC EQUIPMENT FOR APPROVAL.

103 CODES

THE FOLLOWING CODES AND STANDARDS SHALL APPLY TO THIS WORK:

ASTM A120, STEEL PIPE
 ASTM B 88, COPPER TUBING
 ANSI H23.1 STANDARDS FOR COPPER TUBING
 ANSI B31.1 CODE FOR PRESSURE PIPING
 NEMA NC1 MOTOR GENERATOR STANDARDS
 NEMA DC1 STANDARDS FOR TEMPERATURE CONTROLS
 NFPA-90A AIR CONDITIONING AND VENTILATING SYSTEM
 NFPA-91 BLOWER AND EXHAUST SYSTEMS
 2012 IMC MECHANICAL CODE

201 SHEET METAL WORK

DUCTWORK: G90 GALVANIZED STEEL SHEETS.
 DUCTWORK SERVING SHOWER ROOM : ALL ALUMINUM.

DUCTS SHALL CONFORM WITH THE FOLLOWING TABLE:

GAUGE	SIZE	TRANSVERSE JOINTS	BRACING
26	0 THRU 12"	S OR DRIVE @ 7'-10"	NONE
24	13" THRU 30"	STANDING S @ 7'-10"	1"x1"x1/8" @ 4'-0"
22	31" THRU 42"	REINFORCED STANDING OR POCKET @ 7'-10" O.C.	
20	OVER 42"	DRIVE OR POCKET	1"x1"x1/8" @ 2'-0"

MINIMUM DUCT GAUGES FOR DUCTWORK ABOVE SUSPENDED CEILINGS SHALL BE AS FOLLOWS:

- CONDITION A: FLOOR ASSEMBLY WITH SUSPENDED ACOUSTICAL CEILING PANEL
 MINIMUM GAUGE - 22
 CONDITION B: ROOF ASSEMBLY WITH SUSPENDED ACOUSTICAL CEILING PANEL
 MINIMUM GAUGE - 24
 CONDITION C: FLOOR ASSEMBLY WITH SHEETROCK CEILING
 MINIMUM GAUGE - 24
 CONDITION D: ROOF ASSEMBLY WITH SHEETROCK CEILING
 MINIMUM GAUGE - 20

202 DAMPERS

- A. BACKDRAFT DAMPER SHALL BE LOW LEAKAGE WITH 16 GAUGE GALVANIZED STEEL FRAME AND BLADES, PARALLEL BLADE OPERATION AND TWO (2) POSITIONS, SPRING RETURN ACTIVATOR WITH END SWITCHES.
 B. COMBINATION FIRE/SMOKE DAMPER SHALL BE UL555S AND UL555 LISTED AND LABELED WITH ELECTRIC FUSE LINK, DAMPER TEST SWITCH, FACTORY SLEEVES WITH ACCESS DOOR AND 120V UL LISTED AND LABELED ACTIVATOR.
 C. FIRE DAMPER SHALL BE UL555/1/2 HOUR FIRE RESISTANCE RATING WITH DYNAMIC CLOSURE AND FUSIBLE LINK.

203 INSULATION

ALL SUPPLY AND RETURN DUCTWORK OUTDOORS, EXPOSED TO WEATHER, SHALL BE INTERNALLY ONE (1") INCH LINED AND EXTERNALLY INSULATED WITH ONE INCH (1") THICK 6 LB DENSITY RIGID FIBERGLASS BOARD ATTACHED TO DUCT. APPLY 2-1/8 INCH THICK COATS OF BREATHER MASTIC AND, WHILE STILL WET, IMBED A LAYER OF GLASS FABRIC WITH ALL JOINTS LAPPED 2" MINIMUM AND COVER WITH THIRD COAT OF BREATHER MASTIC 1/8" THICK.

SUPPLY AIR DUCTWORK, RETURN AIR, LOCATED ABOVE CEILINGS AND IN ATTICS SHALL BE INSULATED WITH 1-1/2 INCH THICK FLEXIBLE DUCT WRAP WITH FRK VAPOR RETARDER FACING, 0.75 PCF AND R=5.1.

204 AUTOMATIC TEMPERATURE CONTROL

CONTRACTOR SHALL PROVIDE AND INSTALL TEMPERATURE CONTROL SYSTEMS TO ALLOW THE HVAC SYSTEM TO FUNCTION AUTOMATICALLY UNDER WINTER CONDITIONS, SUMMER CONDITIONS, OCCUPIED AND UNOCCUPIED MODES OF OPERATIONS. THE SYSTEM SHALL BE COMPLETE IN ALL RESPECTS.

301 SHEET METAL WORK

DUCTWORK SHALL BE FABRICATED AND ERECTED AS REQUIRED TO COMPLETE THE WORK. IF IT IS DEEMED ADVISABLE BY THE CONTRACTOR TO CHANGE THE LOCATION OF ANY DUCT OR DIMENSION THEREOF FROM THAT SHOWN ON THE DRAWINGS, THE CHANGE SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT, AND HIS APPROVAL RECEIVED. SHEET METAL WORK SHALL BE FABRICATED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS AS SET FORTH BY ASHRAE AND SMACNA. FLEXIBLE CONNECTIONS: ALL DUCT CONNECTIONS TO FAN DRIVEN UNITS SHALL BE MADE WITH A FIREPROOF FLEXIBLE DUCT CONNECTOR. 14" MAXIMUM LENGTH. FLEXIBLE AIR CONNECTOR (METALLIC AND NON-METALLIC) SHALL BE 14" MAX. LENGTH.

302 INSTALLATION

DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE INSTALLED. RUN AND ARRANGEMENT SHALL BE APPROXIMATELY AS INDICATED, SUBJECT TO MODIFICATIONS AS REQUIRED TO SUIT CONDITIONS AT BUILDING, TO AVOID INTERFERENCE WITH WORK OF OTHER TRADES, OR FOR PROPER CONVENIENT AND ACCESSIBLE LOCATION.

RUN DUCTS AND PIPING CONCEALED IN WALL CHASES, RECESSES, PIPE SHAFTS, AND ABOVE CEILINGS. DO NOT PERMANENTLY CLOSE UP, FURR IN, OR COVER WORK BEFORE EXAMINATION AND TEST.

303 EQUIPMENT SUPPORT

THIS CONTRACTOR SHALL PROVIDE METAL AND OTHER BASES AND SUPPORTS NOT PART OF THE BUILDING FOR ALL EQUIPMENT AND ERECT ALL STRUCTURAL SUPPORTS OF PROPER SIZE, TYPE AND STRENGTH THROUGHOUT WHEREVER NECESSARY. THE MATERIAL SHALL BE COMPLETE AND MUST BE APPROVED BY THE ARCHITECT.

304 PROTECTION

THIS CONTRACTOR SHALL TAKE PARTICULAR CARE TO PROTECT ANY FINISHED WORK FROM INJURY OR DEFACEMENT AND MUST REMEDY AT HIS OWN EXPENSE ANY INJURY CAUSED THERETO BY HIS OPERATIONS OR THE OPERATIONS OF ANY OTHER CONTRACTORS.

THIS CONTRACTOR SHALL PROVIDE SUITABLE PROTECTION OF ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT WHILE STORED AT THE JOB SITE AND AFTER INSTALLATION. THIS PROTECTION SHALL BE SUITABLE TO GUARD EQUIPMENT ITEMS AGAINST DAMAGE FROM THE WEATHER OR FROM CONSTRUCTION ACTIVITY. SUCH PROTECTION SHALL NOT BE REMOVED UNTIL DIRECTED BY THE ARCHITECT. THE INTERIOR AND EXTERIOR OF ALL DUCTS, PIPING AND EQUIPMENT, SHALL BE KEPT IN A CLEAN CONDITION, FREE FROM DIRT AND DEBRIS. ALL PIPING, DUCT, AND EQUIPMENT ITEMS SHALL BE THOROUGHLY CLEANED BEFORE THE START-UP OF ANY EQUIPMENT OR SYSTEMS.

305 GUARANTEES

ALL PARTS OF THE INSTALLATION ARE TO BE GUARANTEED IN WRITING BY THIS SUBCONTRACTOR TO BE FREE FROM DEFECTS, MANUFACTURE AND INSTALLATION FOR A PERIOD OF 18 MONTHS FROM THE DATE OF WRITTEN ACCEPTANCE OF THE ENTIRE BUILDING BY THE ARCHITECT. THIS CONTRACTOR SHALL REPLACE, WITHOUT CHARGE TO THE OWNER, ANY PART OR PARTS OF PIPING, DUCTWORK AND EQUIPMENT, AND ALL LABOR AND MATERIALS REQUIRED, WHICH FAILS DUE TO SUCH CAUSE OR CAUSES DURING THE GUARANTEE PERIOD.

THIS CONTRACTOR AND THE MANUFACTURER SUPPLYING EACH UNIT OF EQUIPMENT SHALL GUARANTEE SAME TO BE OF A CAPACITY AND CAPABLE OF PERFORMANCE AS REPRESENTED BY THE MANUFACTURER.

THE MANUFACTURER'S WRITTEN GUARANTEES, WHERE SUCH GUARANTEES EXTEND BEYOND THE 18 MONTHS LIMIT STATED HEREIN SHALL BE DELIVERED TO THE ARCHITECT FOR TRANSMITTAL TO THE OWNER.

306 SLEEVES AND OPENINGS

THIS CONTRACTOR SHALL KEEP HIMSELF FULLY INFORMED AS TO THE SHAPE, SIZE AND LOCATION OF ALL OPENINGS REQUIRED FOR HIS EQUIPMENT AND SHALL OBTAIN FULL INFORMATION TO THE GENERAL CONTRACTOR AND ALL OTHER SUBCONTRACTORS SUFFICIENTLY IN ADVANCE. HE SHALL FURNISH ALL SLEEVES, SUPPORTS, ETC., SO THAT THE GENERAL CONTRACTOR MAY BUILD THE SAME IN PLACE. IN THE CASE OF FAILURE OF THIS CONTRACTOR TO NOTIFY THE GENERAL CONTRACTOR ALL REQUIRED CUTTING AND PATCHING WILL BE DONE BY THE GENERAL CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR.

307 ACCESS PANELS

FURNISH ACCESS PANELS OF SUFFICIENT SIZE TO FACILITATE SERVICING WHERE DAMPERS, OR SHUT-OFF VALVES ARE CONCEALED IN NON-ACCESSIBLE SPACE.

PANEL SHALL BE MILCOR STYLE "AT" FOR PANELS IN ACOUSTICAL TILE AREAS, STYLE "AP" FOR PANELS IN PLASTER WALLS AND CEILINGS, AND STYLE "M" FOR PANELS IN MASONRY OR TILE WALLS AS MANUFACTURED BY INLAND STEEL PRODUCTS CO., L.N. WALSH CO., MIAMI CAREY, OR EQUAL. ALL PANELS SHALL BE FURNISHED WITH A SHOP PRIME COAT OF PAINT.

LOCATIONS OF ALL ACCESS PANELS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

PANELS SHALL BE INSTALLED BY THE CONTRACTOR IN WHOSE SURFACE THE PANELS OCCUR.

308 RUBBISH REMOVAL

AT THE COMPLETION OF EACH DAY'S WORK, THIS CONTRACTOR SHALL REMOVE FROM THE PREMISES, ALL RUBBISH OR WASTE MATERIAL BELONGING TO HIM.

309 TESTING AND ADJUSTING

ALL EQUIPMENT AND APPARATUS NECESSARY FOR TESTS, ADJUSTMENTS, AND RECORDINGS SHALL BE FURNISHED BY THIS CONTRACTOR. ALL DEFECTS DISCLOSED BY TESTS SHALL BE RECTIFIED, WITHOUT ADDITIONAL COST TO THE OWNER.

IN THE CASE OF THE EXHAUST, RETURN AND AIR SUPPLY SYSTEMS, ALL EQUIPMENT, DUCT SECTIONS, AND ACCESSORY APPARATUS SHALL BE TESTED AND BALANCED TO DELIVER AIR WITHIN 5 % OF THE QUANTITIES SPECIFIED ON THE PLANS BY AN APPROVED, EXPERIENCED BALANCING CONTRACTOR WHOSE BUSINESS IS THE BALANCING OF AIR SYSTEMS. ALL TESTS SHALL BE APPROVED BY THE ENGINEER AND SHALL REVEAL THE RECORD INFORMATION IN ACCORDANCE WITH THE FOLLOWING TABLE OF REQUIREMENTS.

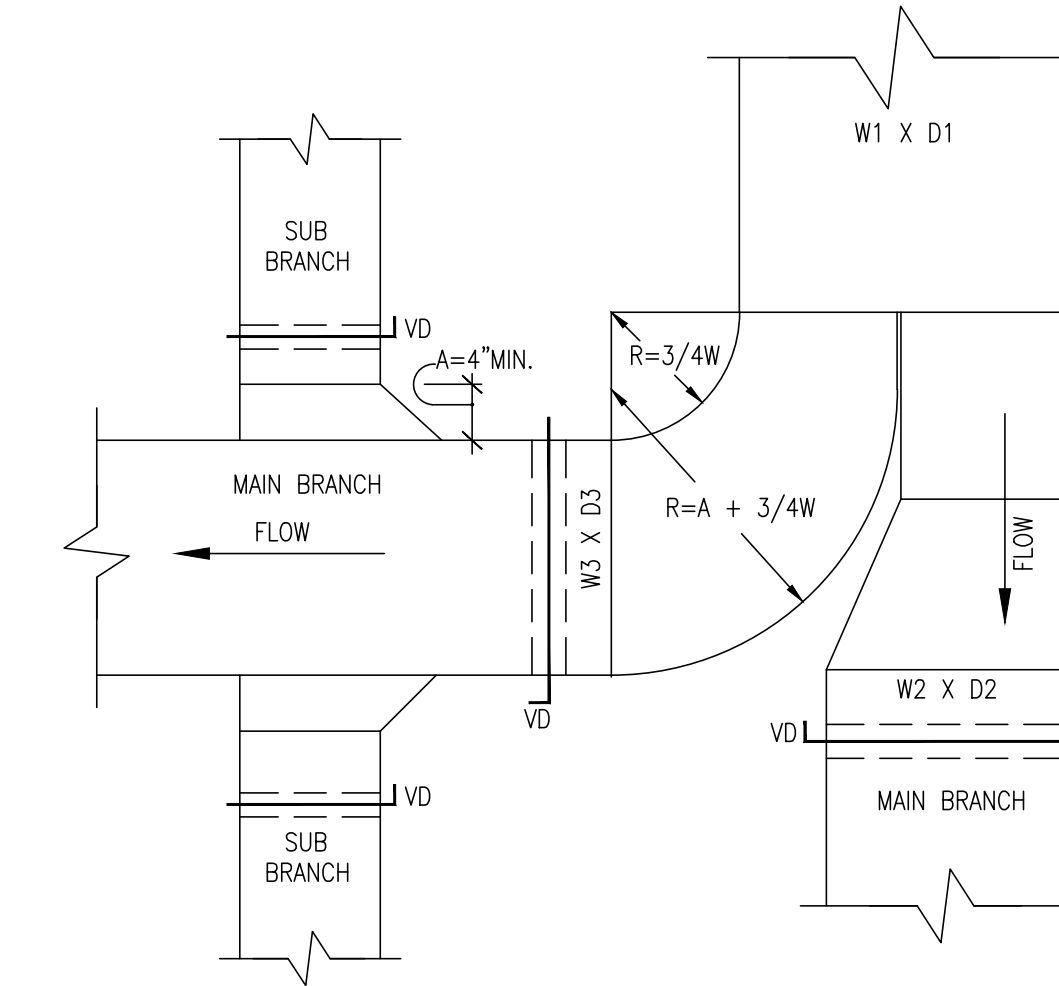
- ACTUAL STATIC PRESSURE
- DESIGN CFM
- ACTUAL CFM
- SIZE OF GRILLE IN INCHES AND SQUARE FEET
- GRILLE VELOCITY IN RPM
- DESIGN CFM PER GRILLE
- ACTUAL CFM PER GRILLE

CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF TEST REPORTS TO THE ENGINEER FOR APPROVAL.

310 OPERATING INSTRUCTIONS AND MAINTENANCE MANUALS

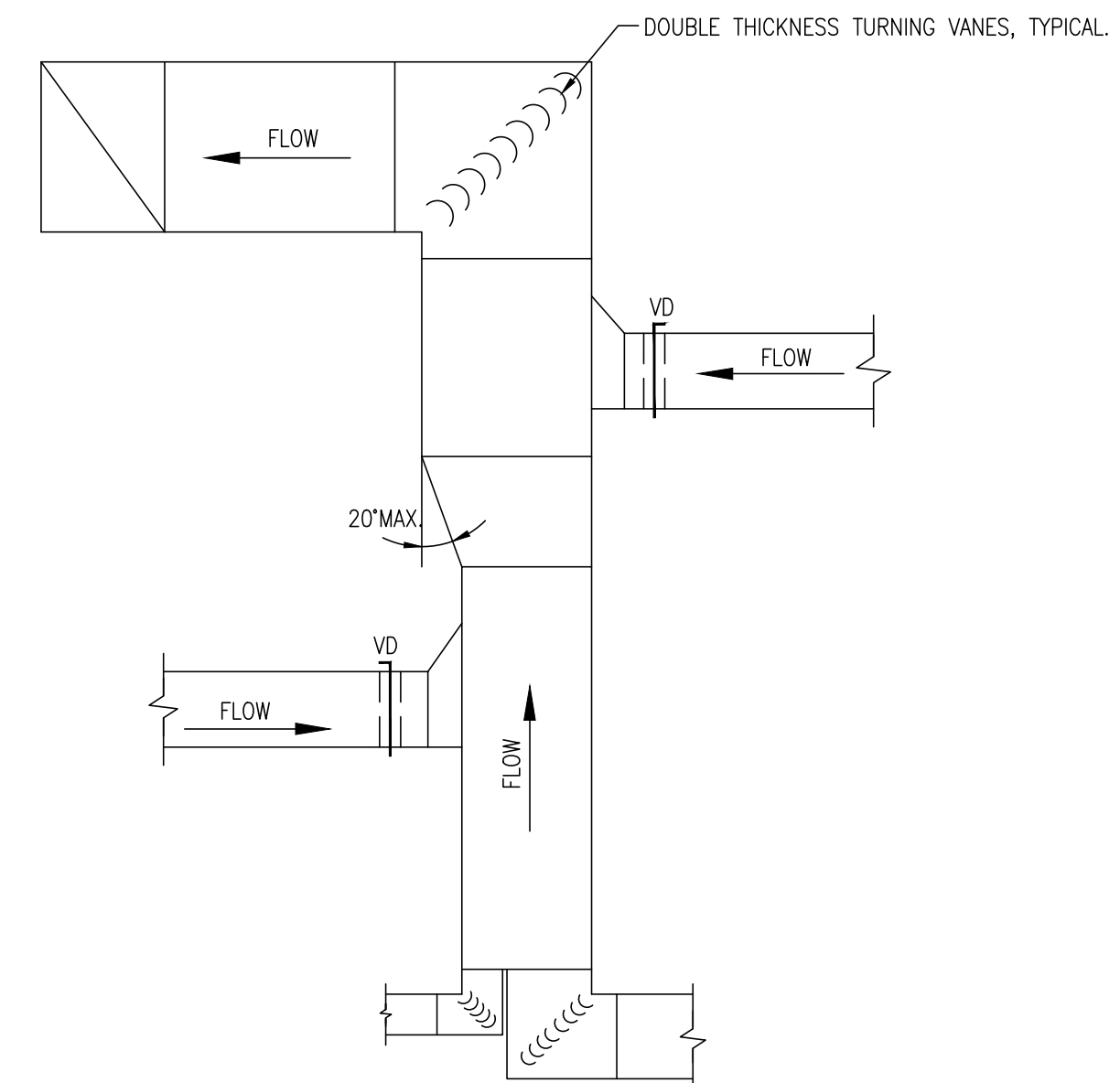
THIS CONTRACTOR SHALL GIVE DETAILED INSTRUCTIONS PRIOR TO THE COMPLETION OF THE WORK, TO THE RESPONSIBLE PERSONNEL DESIGNATED BY THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL WORK INSTALLED UNDER THIS CONTRACT. A LETTER WITH TWO COPIES CONTAINING THE NAME OF THE PERSON OR PERSONS TO WHOM THE INSTRUCTIONS WERE GIVEN AND THE DATES OF THE INSTRUCTION PERIOD SHALL BE SUBMITTED TO THE OWNER NO LATER THAN THE COMPLETION OF THE PROJECT.

IN ADDITION, THIS CONTRACTOR SHALL PREPARE AND SUBMIT TWO SETS OF MANUFACTURER'S CATALOGS, INSTRUCTIONS AND OTHER SIMILAR DATA, INCLUDING THE NECESSARY PHOTOGRAPHIC CUTS, DIAGRAMS, VALVE CHARTS AND THE LIKE, COVERING ALL MECHANICAL AND MANUALLY OPERATED EQUIPMENT AND DEVICES FURNISHED AND/OR INSTALLED UNDER THE HVAC SUBCONTRACT. THIS MANUAL SHALL CONTAIN ONLY THAT INFORMATION WHICH SPECIFICALLY APPLIED TO THIS PROJECT, AND ALL UNRELATED MATERIALS SHALL BE DELETED. DURING THE INSTRUCTION PERIOD, SPECIFIED ABOVE, THE MANUAL SHALL BE USED AND EXPLAINED. THE MATERIALS SHALL BE BOUND IN BOOK FORM AND INDEXED.



TYPICAL SUPPLY DUCT

NO SCALE



TYPICAL EXHAUST OR RETURN DUCT

NO SCALE

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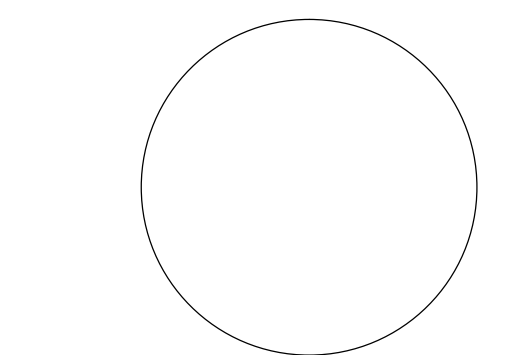
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JCJ ARCHITECTURE

120 HUYSHOPE AVENUE, SUITE 400
HARTFORD, CT 06106
860.247.9226

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CONSULTANTS:
 MEP/FP CONSULTANT
 BEMIS ASSOCIATES, LLC
 185 MAIN ST
 FARMINGTON, CT 06032
 860-667-3233



P.I.C. _____ L.D. _____

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GLASTONBURY, CT 06033

JCJ ARCHITECTURE

120 HUYSHOPE AVENUE, SUITE 400
HARTFORD, CT 06106
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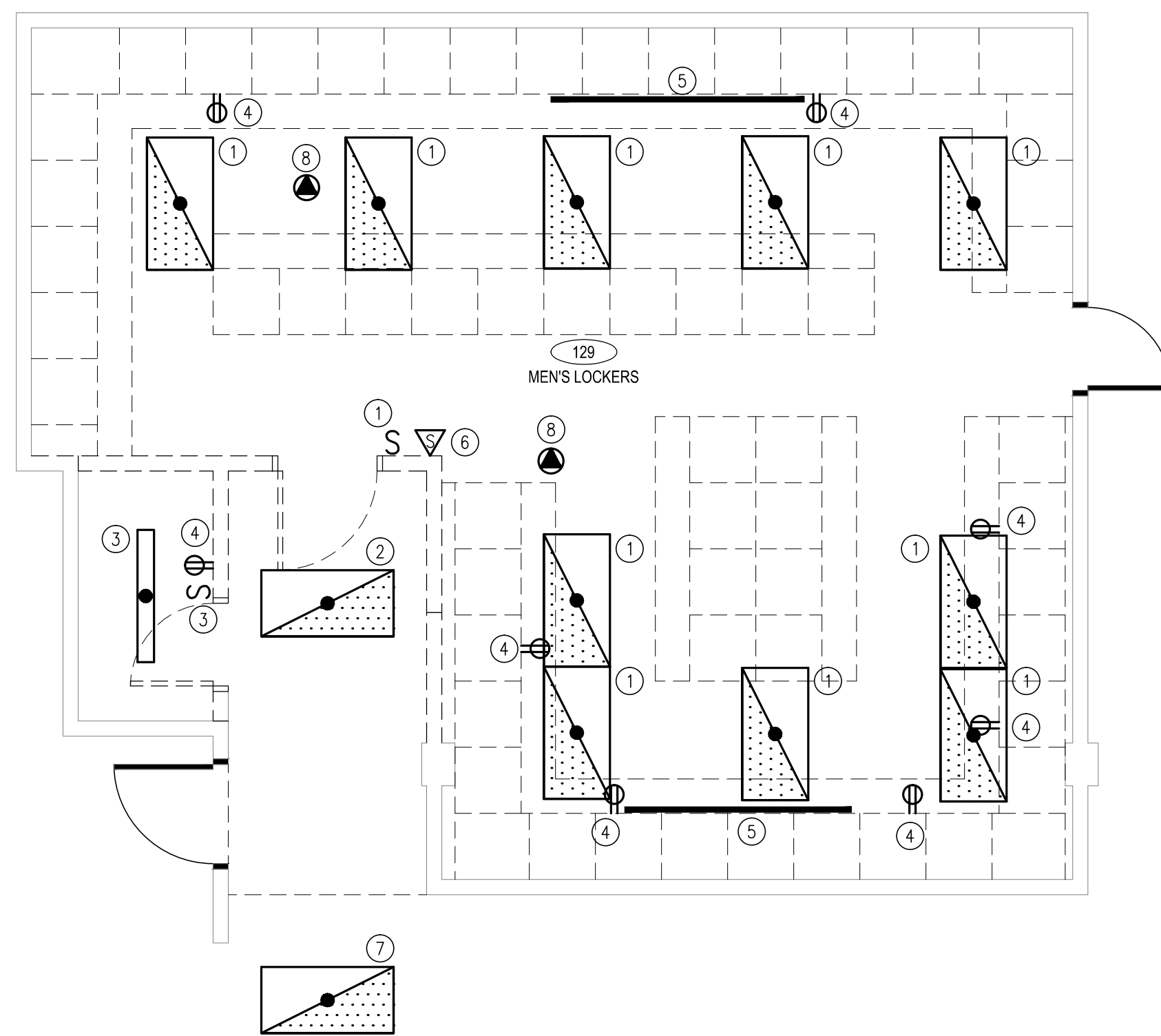
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LOCKER ROOM
ELECTRICAL
PLANS

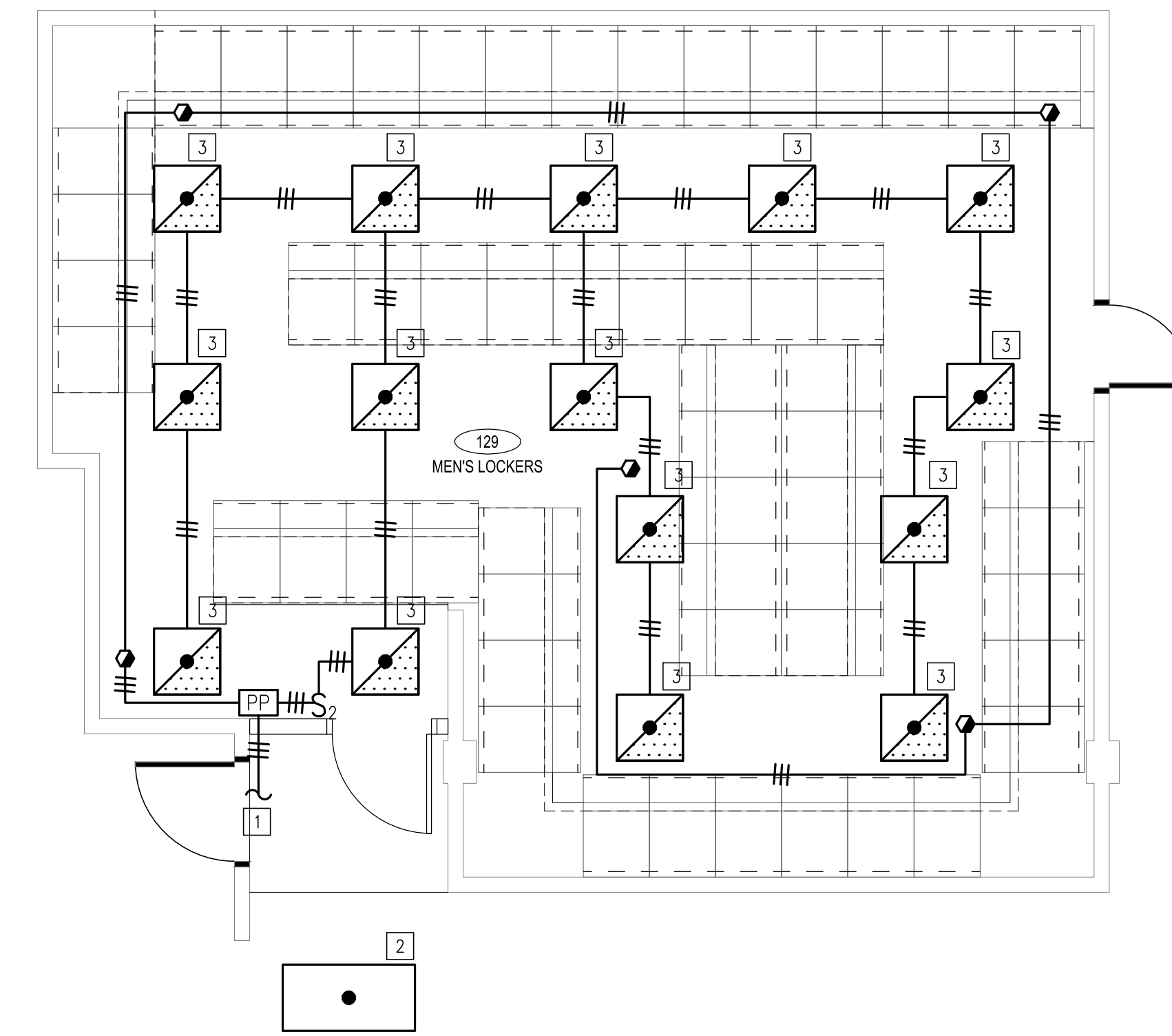
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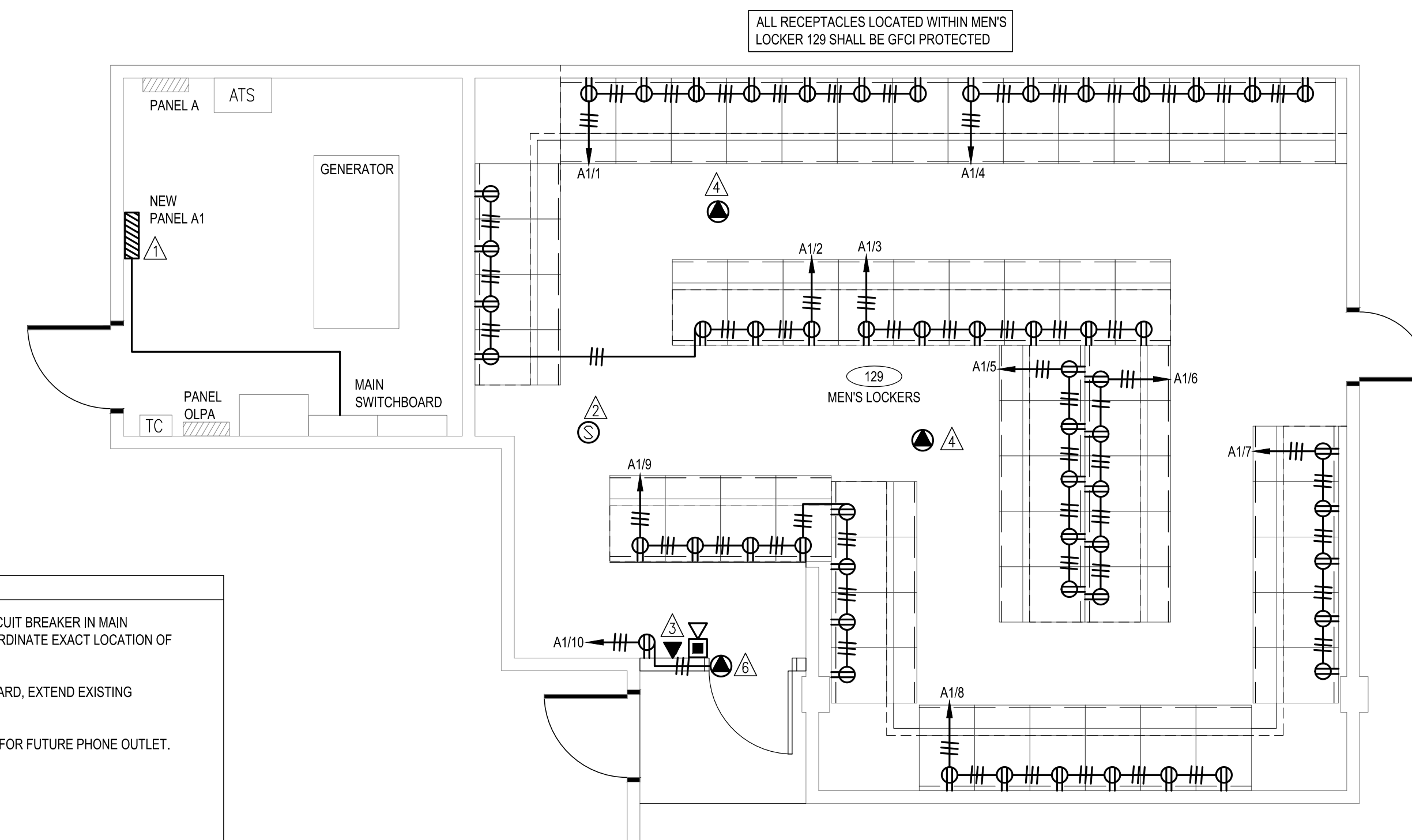
1 MENS LOCKER DEMOLITION PLAN - ELECTRICAL
1/4" = 1'-0"

- DEMOLITION KEY NOTES**
- 1 EXISTING LIGHT FIXTURES AND SWITCH TO BE REMOVED COMPLETELY, MAINTAIN EXISTING CIRCUIT TO REUSED FOR NEW LIGHTING WITHIN AREA.
 - 2 EXISTING LIGHT FIXTURE TO BE REMOVED, REMOVE EXISTING CIRCUIT BACK TO LAST ACTIVE DEVICE.
 - 3 EXISTING LIGHT FIXTURES AND SWITCH TO BE REMOVED COMPLETELY, REMOVE EXISTING CIRCUIT BACK TO LAST ACTIVE DEVICE.
 - 4 EXISTING RECEPTACLES TO BE REMOVED COMPLETELY, REMOVE EXISTING CIRCUIT BACK TO LAST ACTIVE DEVICE OR SOURCE PANEL.
 - 5 EXISTING PLUGMOLD TO BE REMOVED COMPLETELY, REMOVE EXISTING CIRCUIT BACK TO LAST ACTIVE DEVICE OR SOURCE PANEL.
 - 6 EXISTING WALL SPEAKER TO BE REMOVED, MAINTAIN WIRING FOR NEW CEILING MOUNTED SPEAKER.
 - 7 EXISTING LIGHTING FIXTURE TO REMAIN.
 - 8 EXISTING VAV BOXES TO REMAIN
 - 9 EXISTING RECEPTACLE TO REMAIN

- LIGHTING KEY NOTES**
- 1 WIRE TO EXISTING LIGHTING CIRCUIT SERVING THIS AREA.
 - 2 EXISTING LIGHTING FIXTURE TO REMAIN.
 - 3 PROVIDE 2'X2' RECESSED LED LIGHT FIXTURE DAY-BRITE MODEL # 2TG30L840-2-FS-02F-UNV-SDIM



2 MENS LOCKER FLOOR PLAN - ELECTRICAL NEW LIGHTING
1/4" = 1'-0"



- POWER KEY NOTES**
- ▲ PROVIDE A NEW 30 POLE, 200A-30-4W MLO PANEL FEED FROM A NEW 200A-3P CIRCUIT BREAKER IN MAIN SWITCHBOARD, NEW FEEDER SHALL BE 4#3/0 & 1#6G XHHW-2 IN 2" CONDUIT. COORDINATE EXACT LOCATION OF NEW PANEL IN FIELD
 - ▲ PROVIDE NEW CEILING MOUNTED SPEAKER TO MATCH EXISTING BUILDING STANDARD, EXTEND EXISTING SPEAKER WIRING SERVING AREA TO NEW LOCATION.
 - ▲ PROVIDE 4" SQUARE JUNCTION W/IT 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE PHONE OUTLET. MOUNT AT 48" AFF.
 - ▲ EXISTING VAV BOXES TO REMAIN
 - ▲ EXISTING RECEPTACLE TO REMAIN
 - ▲ PROVIDE POWER FOR ELECTRONIC DOOR LOCKERS, COORDINATE WITH SUPPLIED DOOR FRAME.

3 MENS LOCKER FLOOR PLAN - ELECTRICAL NEW POWER
1/4" = 1'-0"

GLASTONBURY POLICE DEPARTMENT LOCKER ROOMS

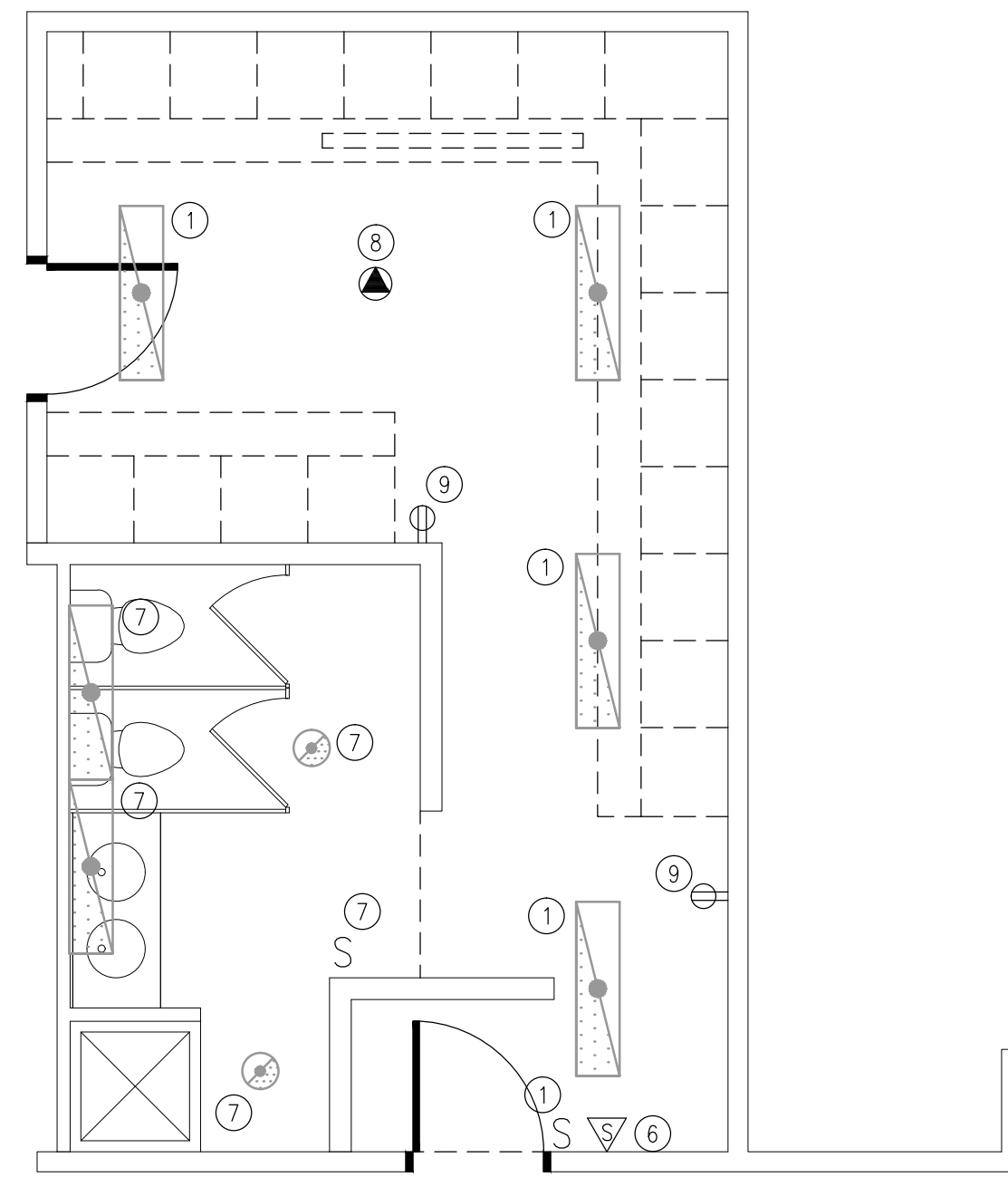
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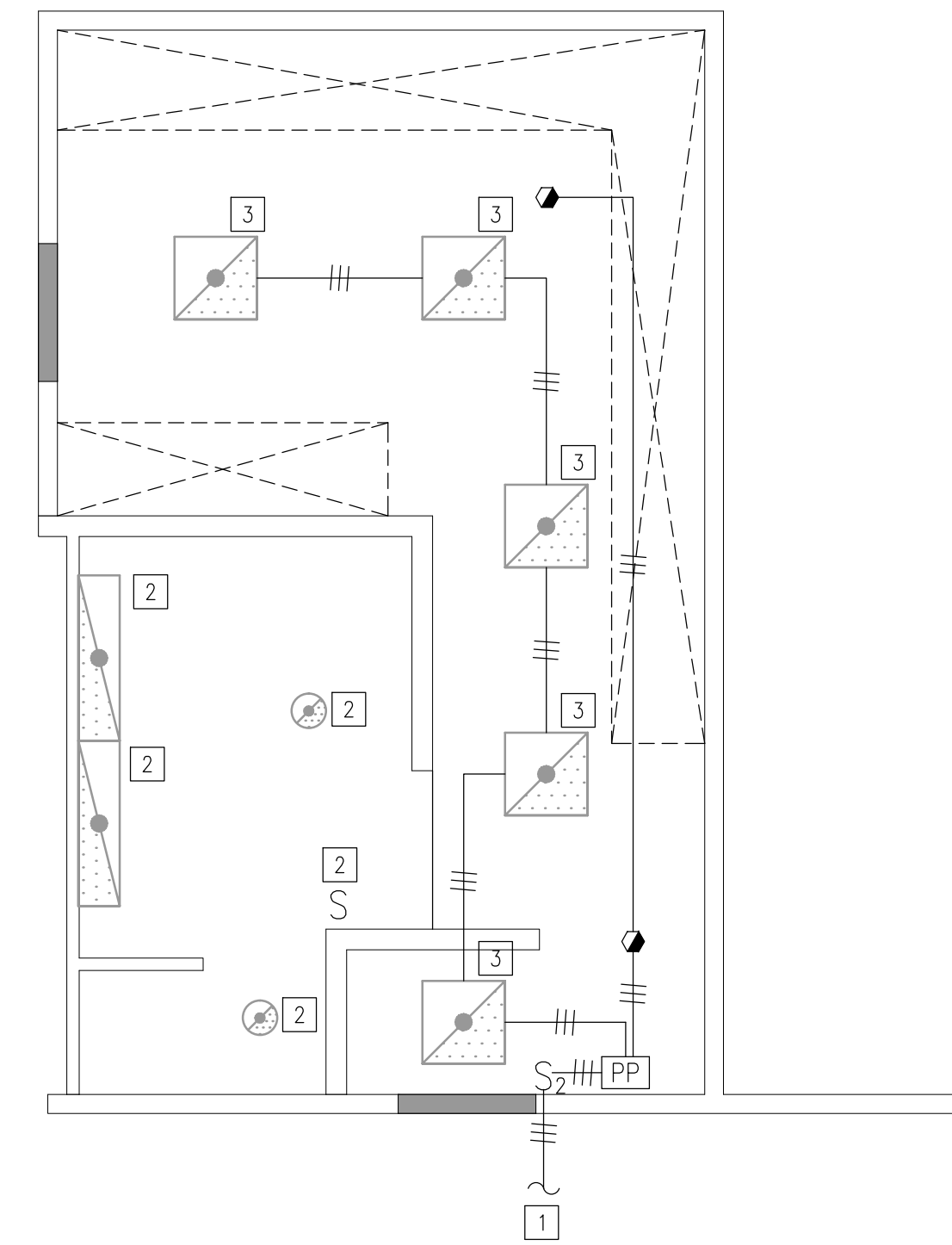
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- DEMOLITION KEY NOTES
- EXISTING LIGHT FIXTURES AND SWITCH TO BE REMOVED COMPLETELY, MAINTAIN EXISTING CIRCUIT TO REUSED FOR NEW LIGHTING WITHIN AREA.
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 - EXISTING VAV BOXES TO REMAIN
 - EXISTING RECEPTACLE TO REMAIN

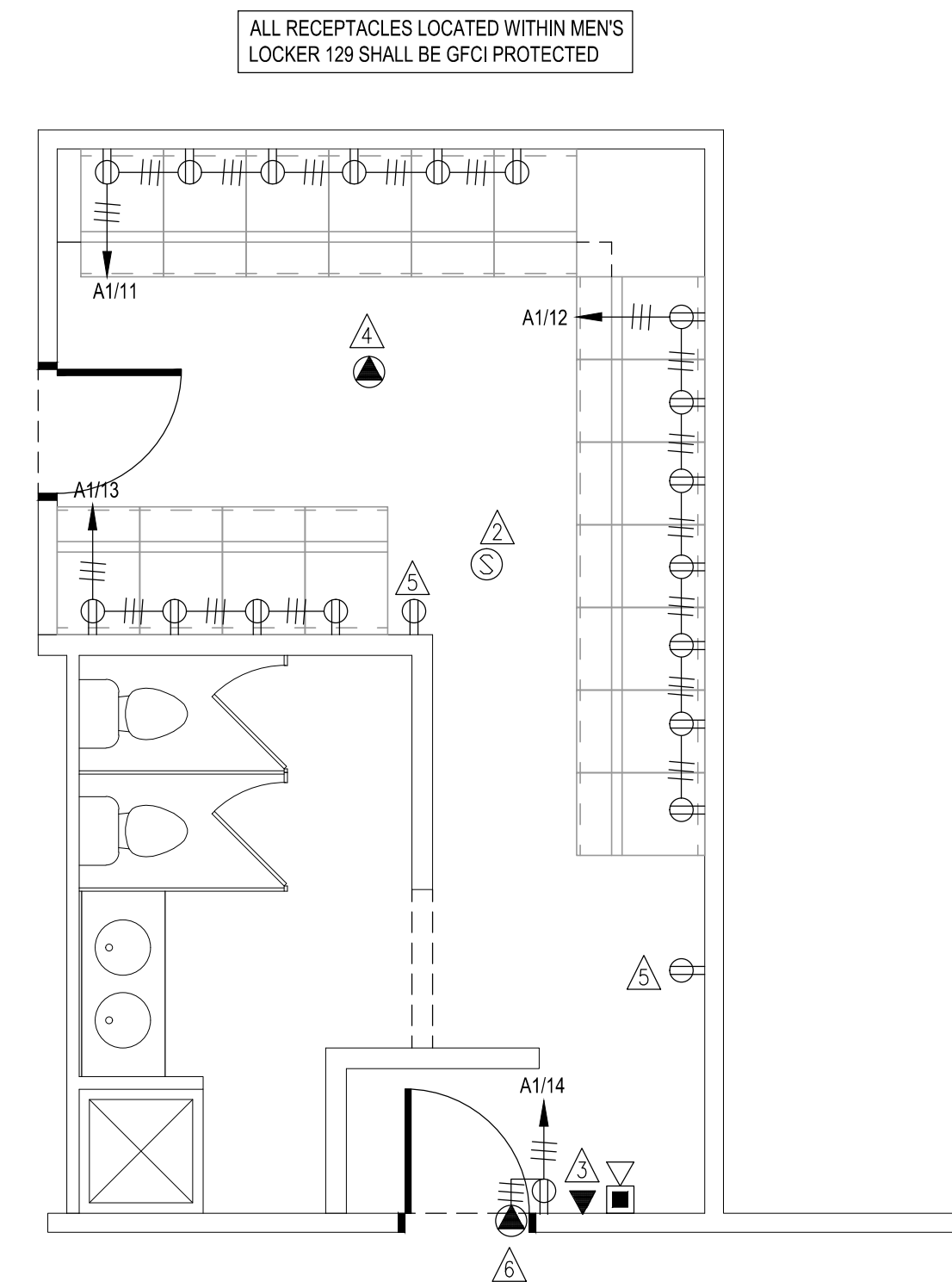
- LIGHTING KEY NOTES
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1 WOMENS LOCKER DEMOLITION PLAN - ELECTRICAL
1/4" = 1'-0"

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- POWER KEY NOTES
- PROVIDE A NEW 30 POLE, 100A-30-4W MLO PANEL FEED FROM A SPARE 100A-3P CIRCUIT BREAKER IN MAIN SWITCHBOARD. NEW FEEDER SHALL BE 4#2 & 1#6G XHHW-2 IN 1 1/2" CONDUIT. COORDIANTE EXACT LOCATION OF NEW PANEL IN FIELD
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 - PROVIDE 4" SQUARE JUNCTION WIT 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR FUTURE PHONE OUTLET. MOUNT AT 48" AFF.
 - EXISTING VAV BOXES TO REMAIN
 - EXISTING RECEPTACLE TO REMAIN
 - PROVIDE POWER FOR ELECTRONIC DOOR LOCKERS. COORDINATE WITH SUPPLIED DOOR FRAME.



3 WOMENS LOCKER FLOOR PLAN - ELECTRICAL NEW POWER
1/4" = 1'-0"

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WOMENS LOCKER ROOM
PLANS

E-120

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HARTFORD, CT 06106
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GENERAL SPECIFICATION NOTES – POWER

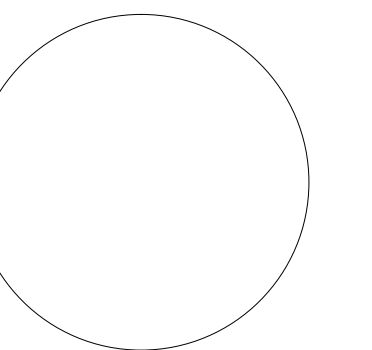
- 1 – THE CONTRACTOR SHALL VERIFY AND OBTAIN ALL NECESSARY DIMENSIONS AT THE BUILDING.
- 2 – FINISHED WORK: THE INTENT OF THE SPECIFICATIONS AND DRAWINGS IS TO CALL FOR FINISHED WORK, COMPLETED, TESTED AND READY FOR OPERATION.
- 3 – GOOD PRACTICE: IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY CONDUIT, JUNCTION BOX, FITTING OR MINOR DETAIL AND IT IS UNDERSTOOD THAT WHILE THE DRAWINGS MUST BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, THE SYSTEMS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
- 4 – ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON DRAWINGS BUT MENTIONED IN SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND PERFECT IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 5 – CODES AND STANDARDS – COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES AND STANDARDS WHEREVER APPLICABLE INCLUDING THE FOLLOWING: 2009 AMENDMENT TO THE 2016 CONNECTICUT STATE BUILDING CODE, SUPPLEMENT, 2012 INTERNATIONAL BUILDING CODE, 2005 CONNECTICUT FIRE SAFETY CODE, 2016 CONNECTICUT FIRE CODE, 2014 NATIONAL ELECTRICAL CODE, ICC/ANSI A117.1-2003 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, ADA, NFPA, UNDERWRITERS LABORATORIES, FACTORY MUTUAL INSURANCE COMPANY, NEMA STANDARDS.
- 6 – NOTE THAT THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF THE ELECTRICAL EQUIPMENT AND SYSTEMS, WITHOUT SHOWING EVERY DETAIL AND FITTING.
- 7 – RACEWAYS: PROVIDE EMT CONDUIT FOR ALL WIRING. EMT CONNECTORS AND COUPLINGS SHALL BE GALVANIZED STEEL SET-SCREW TYPE. PROVIDE GLAND COMPRESSION CONNECTORS AND COUPLINGS WHERE LOCATED IN DAMP AND WET LOCATIONS. PROVIDE FLEXIBLE STEEL CONDUIT FOR FINAL CONNECTIONS TO MOTOR DRIVEN EQUIPMENT. PROVIDE RIGID GALVANIZED STEEL CONDUIT WHERE LOCATED IN DAMP OR WET AREAS.
- 8 – BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, RATED 600 VOLTS, 90 DEG.C., COLOR CODED, TYPE XHHW-2.
- 9 – WIRE SIZE #8 AWG AND LARGER SHALL BE STRANDED. WIRE OF SIZE SMALLER THAN #8 AWG SHALL BE SOLID.
- 10 – MINIMUM SIZE CONDUCTORS FOR POWER AND LIGHTING SHALL BE #12 AWG. PROVIDE MINIMUM #10 AWG SIZE FOR RUNS EXCEEDING 75' IN CONDUCTOR LENGTH, AND #8 AWG SIZE FOR RUNS EXCEEDING 150' IN CONDUCTOR LENGTH. PROVIDE LARGER SIZE CONDUCTORS AS SCHEDULED OR AS NOTED ON THE DRAWINGS.
- 11 – THE NUMBER OF WIRES IN A CONDUIT RUN IS INDICATED ON THE DRAWINGS BY CROSS LINES ON THE CONDUIT RUNS. PROVIDE CODE-SIZED CONDUIT FOR THE NUMBER AND SIZE OF WIRES UNLESS A LARGER SIZE IS SHOWN ON THE DRAWINGS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- 12 – RACEWAYS SHALL BE CONCEALED WHEREVER POSSIBLE IN ALL FINISHED AREAS.
- 13 – RACEWAYS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO WALL LINES.
- 14 – RACEWAYS SHALL BE SUPPORTED FROM THE STRUCTURE BY STRAP HANGERS, ROD HANGERS, OR RACK MOUNTED, OR OTHER APPROVED ELECTRICAL MOUNTING.
- 15 – PROVIDE FIRE STOPPING AT ALL FIRE AND/OR SMOKE RATED WALL OR CEILING PENETRATIONS IN ORDER TO MAINTAIN ITS ORIGINAL INTEGRITY.
- 16 – OUTLET BOXES SHALL BE CODE GAUGE GALVANIZED STEEL AND SHALL BE OF SHAPES AND SIZES TO SUIT THEIR RESPECTIVE LOCATIONS AND INSTALLATIONS, AND SHALL BE PROVIDED WITH COVERS TO SUIT THEIR FUNCTION AND INSTALLATION. MINIMUM BOX SIZE SHALL BE 4" SQ. X 2 1/8" DEEP (2-GANG). PROVIDE CAST BOXES FOR OUTDOOR WORK.
- 17 – OUTLET BOXES SHALL BE EQUIPPED WITH FIXTURE STUD OR STRAPS WHERE REQUIRED.
- 18 – INSTALL BOXES IN ACCESSIBLE LOCATIONS AND AT UNIFORM HEIGHTS.
- 19 – SET BOXES AND COVERS SQUARE AND TRUE WITH BUILDING FINISH.
- 20 – BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS HAS BEEN DESIGNED FOR MAXIMUM ECONOMY CONSISTENT WITH ADEQUATE SIZING FOR VOLTAGE DROPS, CIRCUIT CAPACITIES, AND OTHER CONSIDERATIONS. INSTALL THE WIRING WITH CIRCUITS ARRANGED AS SHOWN ON THE DRAWINGS, EXCEPT AS APPROVED IN ADVANCE BY THE ARCHITECT AND ENGINEER. DO NOT MAKE CHANGES WITHOUT PRIOR APPROVAL.
- 21 – PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH 120V SINGLE PHASE CIRCUIT. DO NOT USE A COMMON NEUTRAL FOR GROUPS OF CIRCUITS. PROVIDE A SEPARATE GROUND WIRE FOR EACH CIRCUIT BACK TO THE RESPECTIVE PANEL GROUND. IF MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE INSTALLED IN ONE CONDUIT THEY SHALL BE DE-RATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. DO NOT INSTALL MORE THAN THREE 30 AMP SINGLE PHASE OR FOUR 20 AMP SINGLE PHASE CIRCUITS IN THE SAME CONDUIT.

LEGEND	
SYMBOL/ABBREVIATION	DESCRIPTION
	SPECIAL EQUIPMENT POWER CONNECTION. EQUIPMENT AS DESIGNATED.
	POWER PACK WITH INTEGRAL RELAYS.
	CEILING MOUNTED OCCUPANCY SENSOR
	SINGLE POLE TOGGLE SWITCH
	CONDUCTORS IN CONDUIT. CROSS LINES INDICATE NUMBER OF CONDUCTORS.
	BRANCH CIRCUIT HOMERUN IN CONDUIT. CROSS LINES INDICATE NUMBER OF CONDUCTORS.
	JUNCTION BOX MOUNTED AT 48" AFF.
	PANELBOARD.
	WALL MOUNTED SPEAKER
	CEILING MOUNTED SPEAKER
	HORN/STROBE.
	DUPLEX RECEPTACLE
	RECESSED LIGHT FIXTURE
	RECESSED DOWNLIGHT FIXTURE
	PLUGMOLD
A	AMPS.
C	CONDUIT.
GND.	GROUND.
P	POLE.
W	WIRE.

NEW PANEL #A1- SQUARE D TYPE NO SERIES, SURFACE, 208Y/120V, 3 PHASE, 4 WIRE, 200 AMP MAIN LUGS, 42K A.I.C. MIN.

CKT	TRIP	POLE	REMARKS	CKT	TRIP	POLE	REMARKS
1	20	1	MEN'S RECEPTACLES	2	20	1	MEN'S RECEPTACLES
3	20	1	MEN'S RECEPTACLES	4	20	1	MEN'S RECEPTACLES
5	20	1	MEN'S RECEPTACLES	6	20	1	MEN'S RECEPTACLES
7	20	1	MEN'S RECEPTACLES	8	20	1	MEN'S RECEPTACLES
9	20	1	MEN'S RECEPTACLES	10	20	1	MEN'S RECEPTACLES
11	20	1	WOMEN'S RECEPTACLES	12	20	1	WOMEN'S RECEPTACLES
13	20	1	WOMEN'S RECEPTACLES	14	20	1	WOMEN'S RECEPTACLES
15	20	1	SPARE	16	20	1	SPARE
17	20	1	SPARE	18	20	1	SPARE
19	20	1	SPARE	20	20	1	SPARE
21	20	1	SPARE	22	20	1	SPARE
23	20	1	SPARE	24	20	1	SPARE
25	20	1	SPARE	26	20	1	SPARE
27	20	1	SPARE	28	20	1	SPARE
29	20	1	SPARE	30	20	1	SPARE

- NOTES:
1. PROVIDE WITH SILVER PLATED COPPER BUS BARS AND COPPER GROUND BAR.
 2. PROVIDE WITH DOOR-IN-DOOR TRIM.
 3. PROVIDE WITH BLACK FACE/WHITE CORE ENGRAVED NAMEPLATE FIXED TO PANEL WITH TWO SCREWS OR RIVETS.
 4. PROVIDE WITH METAL FRAME, PLASTIC COVER CIRCUIT DIRECTORY FRAME.
 5. PROVIDE WITH TYPE WRITTEN CIRCUIT DIRECTORY REPRESENTING CIRCUITS AS ACTUALLY CONNECTED TO PANEL.
 6. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.



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ELECTRICAL
NOTES,
PANELBOARD &
SYMBOL LIST

E-210