

Renovations to:

OLD WOODBRIDGE FIRE STATION

4 NEWTON ROAD,
WOODBRIDGE, CT 06525



SILVER / PETRUCELLI + ASSOCIATES

Architects/Engineers/Interior Designers

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100% CD's
May 18, 2018

ABBREVIATIONS

| | | |
|--------------------------------|---------------------------------|---------------------------------|
| A.B. ANCHOR BOLT | FDN. FOUNDATION | P.C.B. PAINTED CONCRETE BLOCK |
| A.C.P. ASBESTOS CEMENT PIPE | F.F. FINISHED FLOOR | P.G.B. PAINTED GYPSUM BOARD |
| ADJ. ADJUSTABLE | FIN. FINISHED | PL. PLATE |
| A.F.F. ABOVE FINISH FLOOR | FIXT. FIXTURE | PLUMB. PLUMBING |
| A.C.T. ACOUSTICAL CEILING TILE | FLOOR. FLOOR | PLYWD. PLYWOOD |
| ALUM. ALUMINUM | FL. FOOT | PREP. PREPARATION |
| APPROX. APPROXIMATE | F.S. FAR SIDE | P.T. PRESSURE TREATED |
| ARCH. ARCHITECTURAL | FTG. FOOTING | PTD. PAINTED |
| ASPH. ASPHALT | | P.V.C. POLYVINYL CHLORIDE |
| AVG. AVERAGE | | |
| | G. GAS | R. RISER |
| | GA. GAGE | RAD. RADIUS |
| | GEN. GENERAL | R.C.P. REINFORCED CONCRETE PIPE |
| | G.C. GENERAL CONTRACTOR | R.D. ROOF DRAIN |
| | GYP. GYPSUM | REIN. REINFORCEMENT |
| | GYP. BD. GYPSUM BOARD | REQD. REQUIRED |
| | | R.H. ROOF HATCH |
| | | R.L. ROOF LEADER |
| | | RM. ROOM |
| | H.C. HANDICAPPED | S. SANITARY |
| | HD. HEADED | SAN. SANITARY |
| | HDWR. HARDWARE | S.C. SEALED CONCRETE |
| | HGT. HEIGHT | SCHED. SCHEDULE |
| | H.P. HIGH POINT | SECT. SECTION |
| | H.M. HOLLOW METAL | S.F. SIMILAR |
| | HORIZ. HORIZONTAL, HORIZONTALLY | S.O.G. SLAB ON GRADE |
| | H.B. HOSE BIBB | SPEC. SPECIFICATIONS |
| | HR. HOUR | SQ. SQUARE |
| | HYD. HYDRANT | SQ. FT. SQUARE FEET |
| | | STL. STEEL |
| | | STRUCT. STRUCTURAL |
| | INSUL. INSULATION, INSULATED | SUSP. SUSPENDED, SUSPENSION |
| | INT. INTERIOR | S.W. SHEAR WALL |
| | INV. INVERT | S.W.F. SHEAR WALL FOOTING |
| | JAN. JANITOR | T. TELEPHONE |
| | K.P. KICK PLATE | TEB. TOP & BOTTOM |
| | | TECH. TECHNOLOGY |
| | | TO. TOP OF |
| | | T.O.F. TOP OF FRAME |
| | | T.O.S. TOP OF STEEL |
| | | T/S. TOP OF SLAB |
| | | T/W. TOP OF WALL |
| | | TYP. TYPICAL |
| | | U.O.N. UNLESS OTHERWISE NOTED |
| | | V.B. VINYL BASE |
| | | V.C.T. VINYL COMPOSITE TILE |
| | | VERT. VERTICAL |
| | | V.I.F. VERIFY IN FIELD |
| | | W. WATER |
| | | W/ WITH |
| | | WCJ WALL CONTROL JOINT |
| | | WD. WOOD |
| | | WF. WIDE FLANGE |
| | | W/W.F. WELDED WIRE FABRIC |
| | | W.W.M. WELDED WIRE MESH |
| | | Ø AT |
| | | Φ DIAMETER |
| | L.A.M. LAMINATE | |
| | L.F. LINEAL FOOT | |
| | L.G. LONG | |
| | L.O.C. LOCATION | |
| | L.P. LOW POINT | |
| | L.T.G. LIGHTING | |
| | M.A.S. MASONRY | |
| | MAX. MAXIMUM | |
| | MECH. MECHANICAL | |
| | M.H. MANHOLE | |
| | MIN. MINIMUM | |
| | MISC. MISCELLANEOUS | |
| | M.O. MASONRY OPENING | |
| | MTD. MOUNTED | |
| | N.A. NOT APPLICABLE | |
| | N.I.C. NOT IN CONTRACT | |
| | NO. NUMBER | |
| | NOM. NOMINAL | |
| | N.S. NEAR SIDE | |
| | N.T.S. NOT TO SCALE | |
| | O.C. ON CENTER | |
| | O.C.C. OCCUPANT | |
| | O.D. OUTSIDE DIAMETER | |
| | OPNG. OPENING | |

SYMBOL LEGEND

| | |
|---------|---|
| (XXX) | ROOM NUMBER |
| (XX) | DOOR NUMBER |
| (XX) | DEMOLITION NOTE |
| (XX) | WINDOW TYPE |
| (XX/XX) | DETAIL NUMBER DRAWING NUMBER |
| (X) | CONSTRUCTION NOTE |
| (X) | SECTION / DETAIL DRAWING NUMBER |
| (XX/XX) | WALL SECTION DRAWING NUMBER |
| (XX/XX) | INTERIOR / EXT. ELEVATION DRAWING NUMBER |
| (X) | REFERENCE POINT |
| (XX) | WALL TYPE |
| (X) | REVISION MARK |

GRAPHIC LEGEND

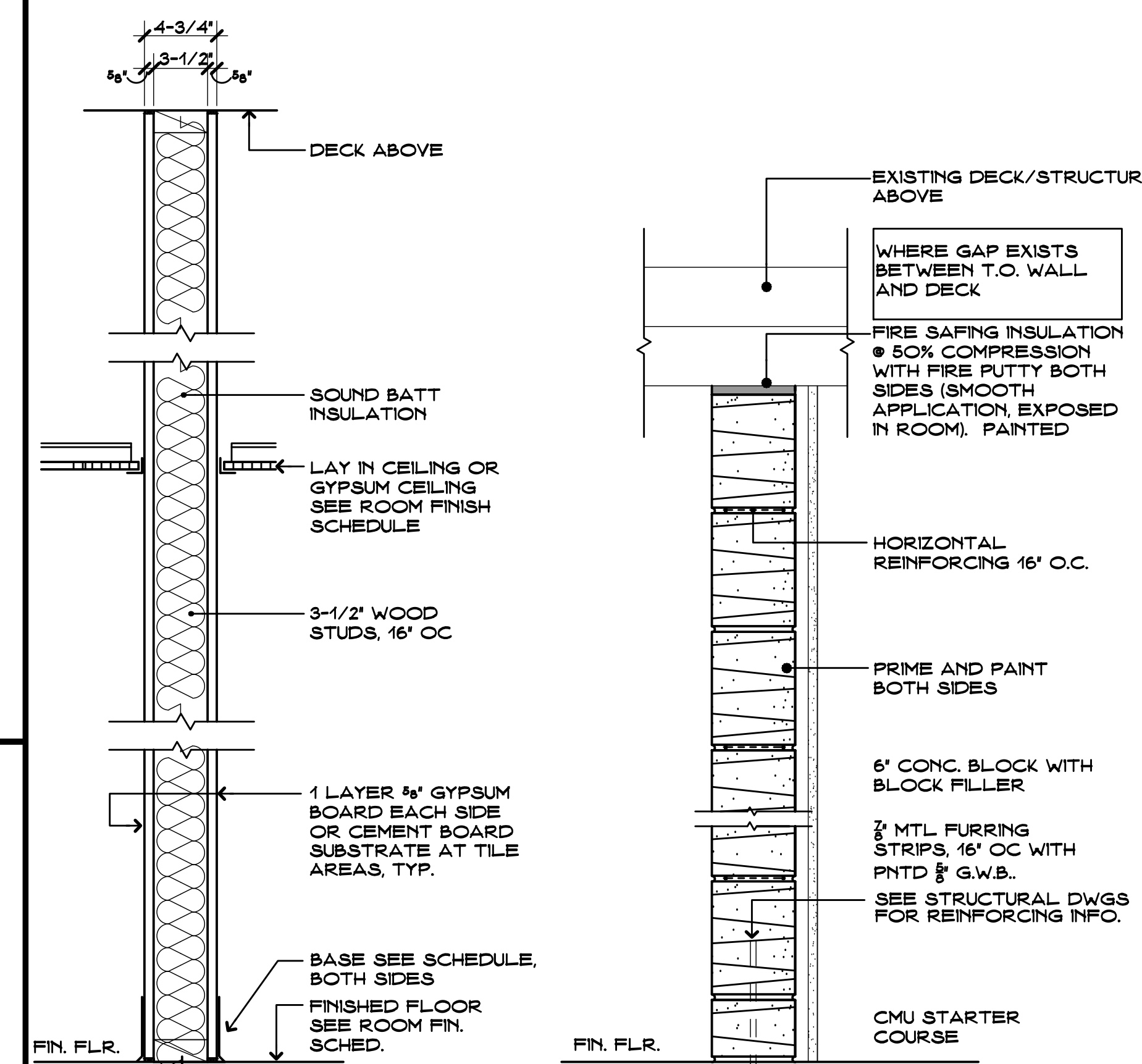
| | |
|--|-----------------------------------|
| | CONCRETE |
| | CONCRETE MASONRY UNITS |
| | BRICK |
| | STONE |
| | METALS |
| | COMPACTED GRAVEL |
| | EARTH |
| | PLYWOOD |
| | ACOUSTICAL TILE |
| | WOOD FRAMING - THROUGH MEMBER |
| | WOOD FRAMING - INTERRUPTED MEMBER |
| | FINISHED WOOD |
| | BATT INSULATION |
| | RIGID INSULATION |
| | GYPSUM BOARD |

GENERAL NOTES

- FOR SPECIFIC WALL DESIGNATIONS AND RATED DESIGNS, SEE THIS DWG A1.
- GENERAL NOTES FOUND ANYWHERE IN THE CONTRACT DOCUMENTS RELATE TO ALL DRAWINGS AND SPECIFICATIONS.
- ALL MATERIALS & EQUIPMENT ARE NEW UNLESS OTHERWISE NOTED AS 'EXISTING'.
- ALL EXISTING UTILITIES & EQUIPMENT LOCATIONS ARE APPROXIMATE - CONTRACTOR TO FIELD VERIFY.
- ALL MATERIALS USED IN THE SCOPE OF WORK MUST NOT CONTAIN ANY ASBESTOS AND THE CONTRACTOR MUST CERTIFY THAT TO THE BEST OF HIS/HER KNOWLEDGE THAT MATERIALS USED IN THE SCOPE OF WORK ARE ASBESTOS FREE.
- PROVIDE ALL TEMPORARY PARTITIONS AND PROTECTION METHODS TO INSURE THAT THE OWNERS MATERIALS, EQUIPMENT AND OPERATIONS ARE PROTECTED AND REMAIN OPERATIONAL DURING CONSTRUCTION.
- THE DRAWINGS AND THE SPECIFICATIONS ARE COMPLEMENTARY - WHAT IS REQUIRED BY ONE IS REQUIRED BY BOTH.

LIST OF DRAWINGS

| | |
|------------------------|---|
| COVER SHEET | |
| ARCHITECTURAL | |
| A1 | GENERAL INFORMATION |
| A2 | CODE PLAN & CODE INFORMATION |
| A3 | DEMOLITION PLAN |
| A4 | FIRST FLOOR PLAN, ROOM FINISH SCHEDULES & DOOR SCHEDULE |
| A5 | SECOND FLOOR PLAN & DOOR SCHEDULES |
| A6 | REFLECTED CEILING PLAN & DETAILS |
| A7 | BUILDING & WALL SECTIONS |
| A8 | INTERIOR & EXTERIOR ELEVATIONS |
| A9 | KITCHENETTE ELEVATIONS & CASEWORK DETAILS |
| STRUCTURAL | |
| S1 | FOUNDATION & FLOOR FRAMING PLANS |
| S2 | ROOF FRAMING PLAN |
| S3 | SECTIONS & DETAILS |
| S4 | TYPICAL DETAILS |
| S5 | GENERAL NOTES |
| FIRE PROTECTION | |
| FP1 | FIRE PROTECTION FLOOR PLANS |
| FP2 | FIRE PROTECTION LEGENDS, NOTES & DETAILS |
| PLUMBING | |
| PD1 | PLUMBING DEMOLITION PLANS |
| P1 | PLUMBING FLOOR PLANS & RISER DIAGRAMS |
| PIA | PLUMBING PART PLANS - ALTERNATES |
| P2 | PLUMBING LEGENDS, SCHEDULES & NOTES |
| P3 | PLUMBING DETAILS |
| MECHANICAL | |
| M1 | MECHANICAL NOTES, LEGEND & ABBREVIATIONS |
| M2 | MECHANICAL DEMOLITION PLANS |
| M3 | MECHANICAL FLOOR PLANS |
| M4 | MECHANICAL SECTIONS |
| M5 | MECHANICAL SCHEDULES |
| M6 | MECHANICAL DETAILS |
| ELECTRICAL | |
| E1 | ELECTRICAL DEMOLITION PLAN |
| E2 | ELECTRICAL LIGHTING FLOOR PLAN |
| E3 | ELECTRICAL POWER FLOOR PLANS |
| E4 | ELECTRICAL RISER, WIRING DIAGRAMS & DETAILS |
| E5 | ELECTRICAL SCHEDULES |
| E6 | ELECTRICAL LEGEND, GENERAL NOTES & SCHEDULES |



- TYPE 1**
3-1/2" WOOD STUDS @ 16" O.C.
W/ NEW 5/8" G.W.B. BOTH SIDES, PAINTED.
- TYPE 1.1**
3-1/2" WOOD STUDS @ 16" O.C.
(1) HOUR RATED CONSTRUCTION UL # 465
- TYPE 1.2**
SIM TO TYPE 1 W/ G.W.B. ONE SIDE ONLY
- TYPE 1.3**
EXISTING WOOD 2X4 STUDS, 16" O.C. W/ NEW 5/8" G.W.B. BOTH SIDES, PAINTED.
- TYPE 1.4**
EXISTING WOOD 2X4 STUDS, 16" O.C. W/ NEW 5/8" TYPE X G.W.B. BOTH SIDES, PAINTED.
(1) HOUR FIRE RATED EQUIVALENCY
- TYPE 1.5**
EXISTING WOOD 2X4 STUDS, 16" O.C. W/ NEW 5/8" TYPE X G.W.B. ONE SIDE, PAINTED.
(1) HR FIRE RATED EQUIVALENCY

PARTITION TYPES 1 A1
SCALE: 1/2" = 1'-0"

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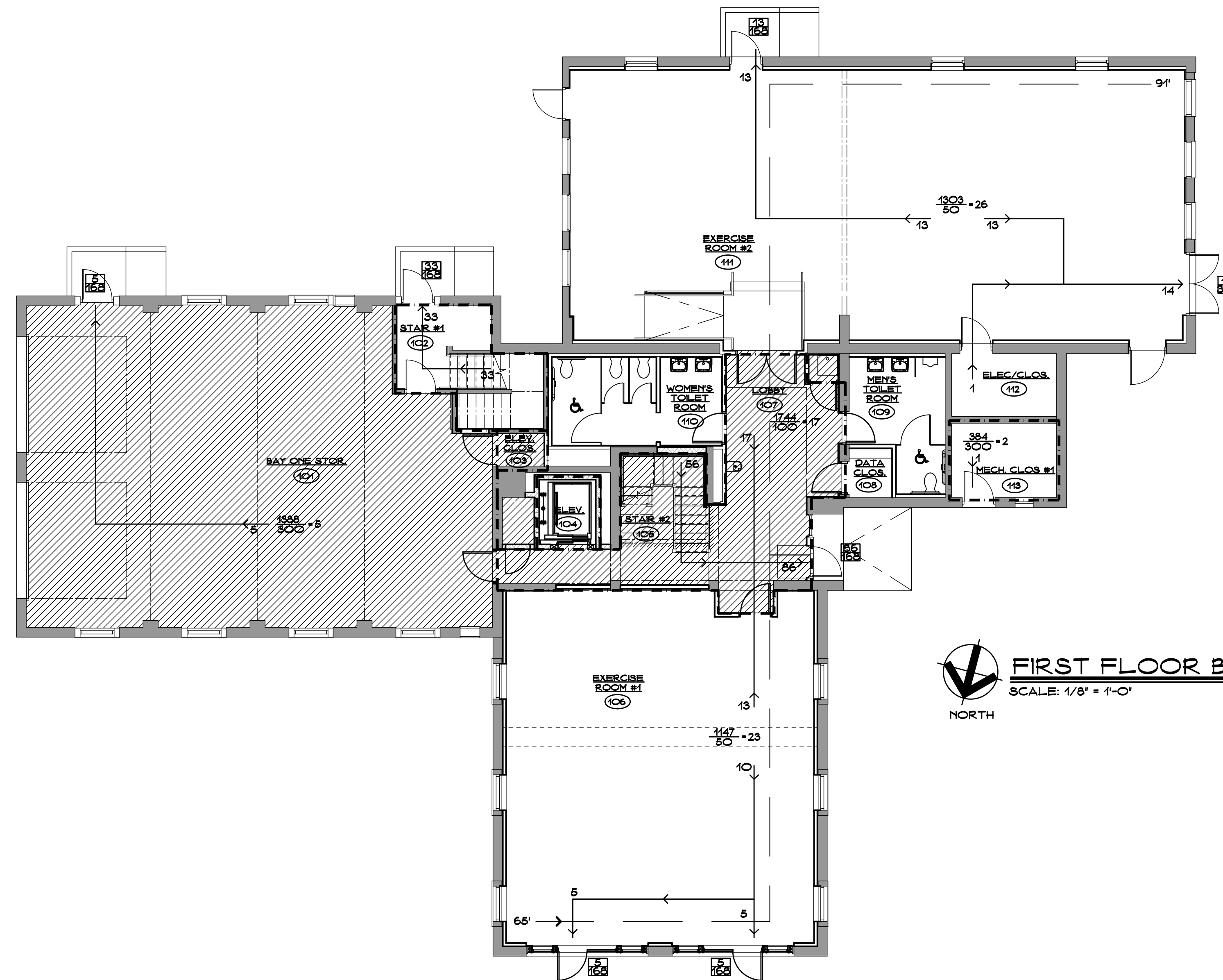
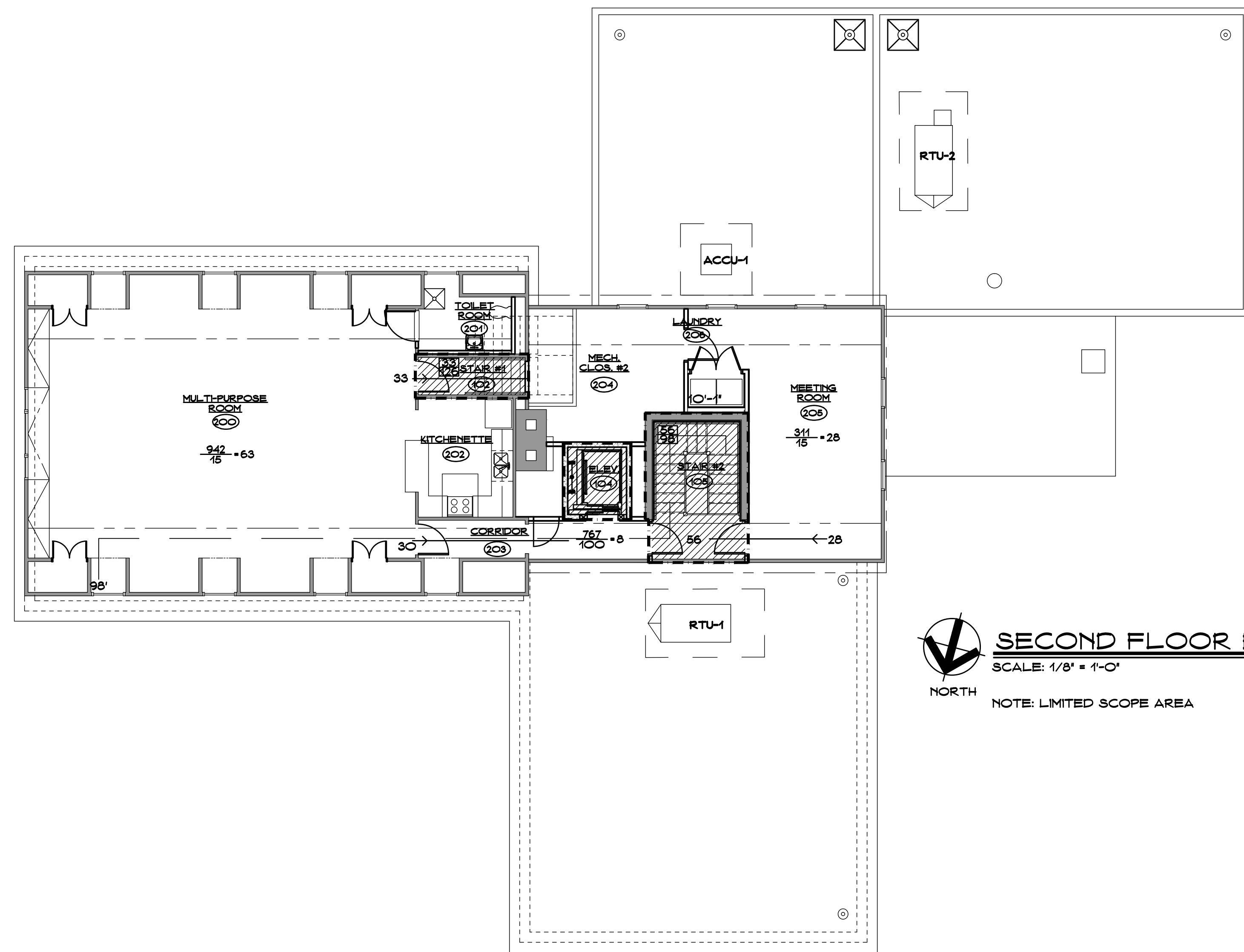
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| Revision: | Description: | Date: | Revised By: |
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Drawing Title:
GENERAL INFORMATION

Date:
5.18.16
Scale:
AS NOTED
Drawn By:
DW
Project Number:
11.147

A1



SYMBOL LEGEND FOR CODE INFORMATION

- ACCESSIBLE AREA OR EXIT
- $\frac{840}{20} = 42$ - AREA IN S.F. OCC. LOAD FACTOR
- $\frac{42}{168}$ - ACTUAL EGRESS OCC. OF DOOR
- $\frac{168}{168}$ - MAX. ALLOWABLE EGRESS OCC. OF DOOR
- - 1 HOUR FIRE RATED WALL AND SMOKE BARRIER
- - 2 HOUR FIRE RATED WALL AND SMOKE BARRIER
- - SMOKE BARRIER CORRIDOR WALLS
- XXX--- - MAXIMUM TRAVEL DISTANCE
- XXX--- - DIRECTION OF TRAVEL
- EXISTING WOOD FLOOR JOISTS FORTIFIED WITH A (1) HOUR FIRE RATED EQUIVALENCY.
- EXISTING WALLS REMAINING

BUILDING CODE INFORMATION

| | |
|---|---|
| DATE OF ORIGINAL CONSTRUCTION | 1937 |
| 1. USE GROUP CLASSIFICATION (Chapter 3) | A3 |
| (Primary) | |
| (Incidental) | |
| 2. CONSTRUCTION TYPE (Chapter 6) | III-B |
| Minimum Type Required | III-B |
| Actual Type Provided (existing) | III-B |
| (new) | III-B |
| 3. BUILDING HEIGHT (Chapter 5) | 2 ST / 55' |
| Allowable Height (story/feet) | 2 ST / 39' |
| Actual Height (story/feet) | 2 |
| 4. BUILDING AREA (Chapter 5) | |
| a) Building Area (first floor) | |
| Existing construction | 8,283 sq.ft. |
| Renovated extg. area | 0 sq.ft. |
| New construction area | 0 sq.ft. |
| Total Floor | 8,283 sq.ft. |
| 5. AREA MODIFICATIONS TO TABLE 503 | |
| Total Perimeter = | 120' ft. 92' ft. 120' ft. 92' ft. |
| Open Perimeter = | 120' ft. 92' ft. 120' ft. 92' ft. |
| | N E W S |
| Total Frontage (F) = | 438' ft. |
| Perimeter (P) = | 438' ft. |
| (building perimeter which fronts on a public way or open space) | (perimeter of the entire building) |
| Having 20 feet open into open space (10) = | 30 |
| IF=100(F/P-0.25)/30 | |
| 100(438' / 438' -0.25) / 30 = | 75 |
| % Frontage Increase (IF) = | 75 |
| % of Allowable Tabular Area, At (table 503) | 100 % |
| % of Increase for frontage, IF (506.2) | 75 % |
| % of Increase for automatic sprinklers, IS (506.3) | 200 % |
| TOTAL percentage factor | 375 % |
| Conversion factor | 3.75 |
| (Total percentage factor 100) | |
| 6. CASE 1 - SINGLE OCCUPANCY OR NONSEPARATED USES (302.3.1) | (Allowable Area 506.4) |
| USE GROUP A-3 | |
| a) ALLOWABLE AREA per floor (A3) | |
| (conversion factor) x (tabular area, Table 503) | 35,625 sq. ft. |
| b) TOTAL FLOOR AREA (all stories) | 8,283 sq. ft. |
| c) ALLOWABLE FLOOR AREA (all stories) | |
| 35,625 x 2 = | 71,250 sq. ft. |
| Allowable area x number of stories (maximum 3) | |
| 7. CASE 2 - MIXED OCCUPANCY UNSEPARATED USES (302.3.2) | not applicable |
| 8. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS | TABLE 302.11 - not applicable |
| 1) Structural Frame | 0 Hr(s) |
| 2) Bearing Walls Exterior | 2 Hr(s) |
| Interior | 0 Hr(s) |
| 3) Non-Bearing Walls/Partitions Exterior | 0 Hr(s) |
| 4) Non-Bearing Walls/Partitions Interior | 0 Hr(s) |
| 5) Floor Construction Including Beams | 0 Hr(s) |
| 6) Roof Construction Including Beams | 0 Hr(s) |
| 9. OCCUPANCY LOAD | |
| Design Total for Building | 163 |
| Total Exit Capacity for Building | 546 |
| 10. ACCESSIBLE BUILDING | YES Designated |
| Non Designated | |
| 11. MINIMUM PLUMBING FIXTURE COUNT (I.B.C. Chapter 29) | For each use group and staff, per entire facility |
| Building Total | Required Provided |
| V/C Male | 2 3 |
| V/C Female | 3 3 |
| Lavs | 3 5 |
| D/F | 1 1 |
| 12. SPRINKLER PROTECTION | YES Entire Building |
| Limited Area | |
| 13. CODES TO WHICH THIS PROJECT WAS DESIGNED | |
| State Building Code w/Supplement | 2012 IBC |
| State Fire Code w/Supplement | 2012 CFSC |
| State Health Code | MOST CURRENT |
| ISHA | MOST CURRENT |
| Section 504 | N.A. |
| ADA | MOST CURRENT |
| Yes No | |
| 14. THRESHOLD BUILDING CONDITIONS | Yes No |
| | X |

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Drawing Title:
CODE PLAN & CODE INFORMATION

Date:
5.18.16
Scale:
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A2

DEMOLITION NOTES

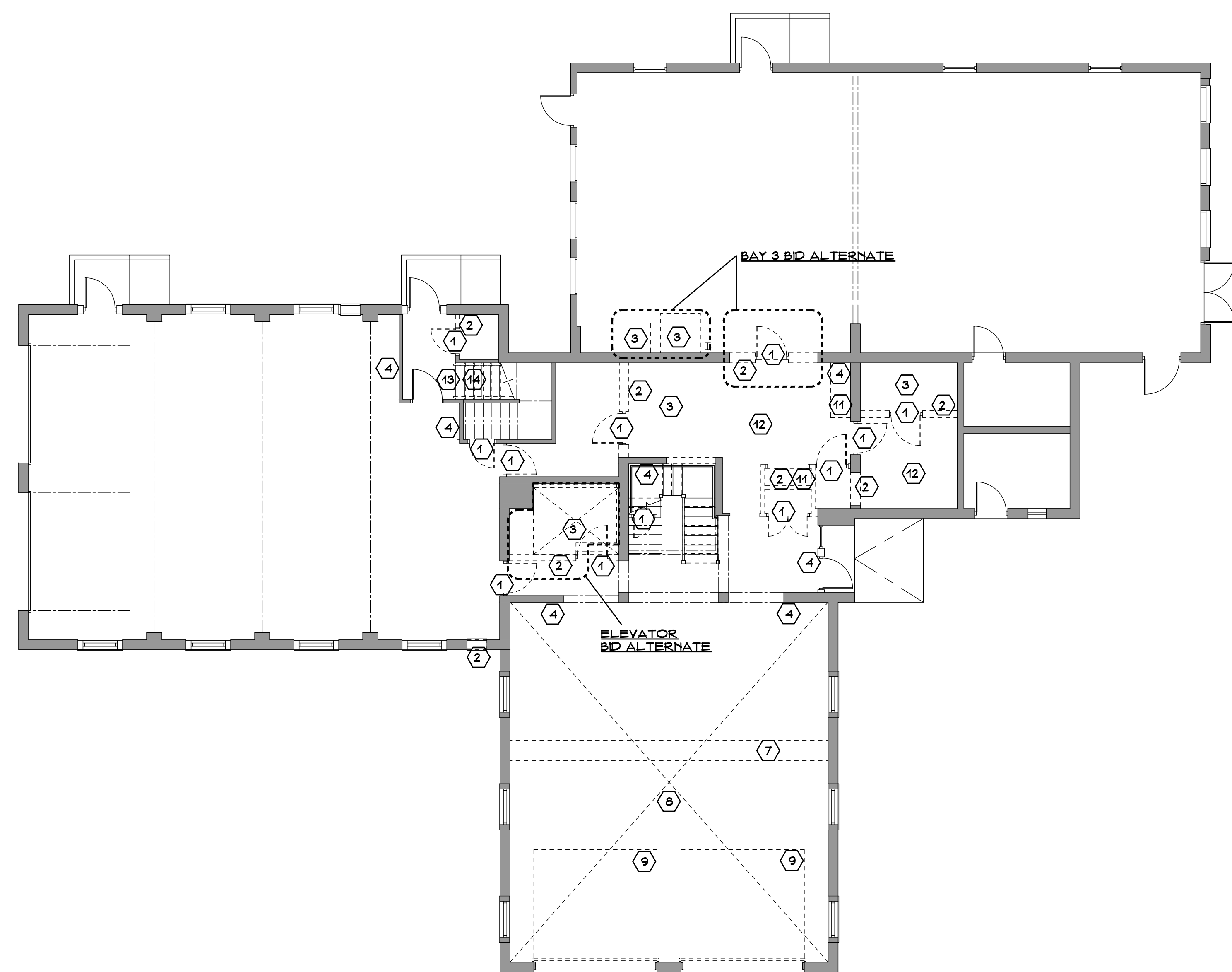
GENERAL DEMOLITION NOTES

- A. THE DEMOLITION DRAWINGS AND NOTES ARE PROVIDED AS A GUIDE TO THE SCOPE OF DEMOLITION WORK REQUIRED FOR THIS PROJECT. IT IS NOT THE INTENT OF THE DOCUMENT DRAWINGS AND NOTES TO DESCRIBE EVERY DEMOLITION CONDITION.
- B. DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CODES, REGULATIONS AND ORDINANCES OF LOCAL, STATE AND FEDERAL AUTHORITIES. DEMOLITION WORK SHALL BE PERFORMED IN COOPERATION AND ACCORDANCE WITH THE REQUIREMENTS OF UTILITY COMPANIES PROVIDING SERVICES TO THE PROJECT SITE.
- C. PROVIDE ALL NECESSARY AND REQUIRED GUARD FENCES, CATCH PLATFORMS, AND PROTECTION DEVICES FOR ADJACENT PROPERTIES AND PUBLIC WAYS IN ACCORDANCE WITH THE LATEST STATE BASIC BUILDING AND DEMO CODES.
- D. EACH CONTRACTOR IS RESPONSIBLE FOR THE DEMO ITEMS PERTAINING TO HIS TRADE, UNLESS OTHERWISE AGREED UPON.
- E. PROVIDE ALL NECESSARY BARRIERS AND STRUCTURES REQUIRED TO KEEP PROJECT SITE AND ADJACENT PROPERTIES SAFE AND DEBRIS FREE.
- G. PROVIDE PROPER PROTECTION FOR FOUNDATION WALLS AND MISC. ITEMS TO REMAIN DURING DEMOLITION AND CONSTRUCTION PERIODS.
- H. MAINTAIN ALL REQUIRED FIRE DEPARTMENT VEHICLE AND EQUIPMENT ACCESS.

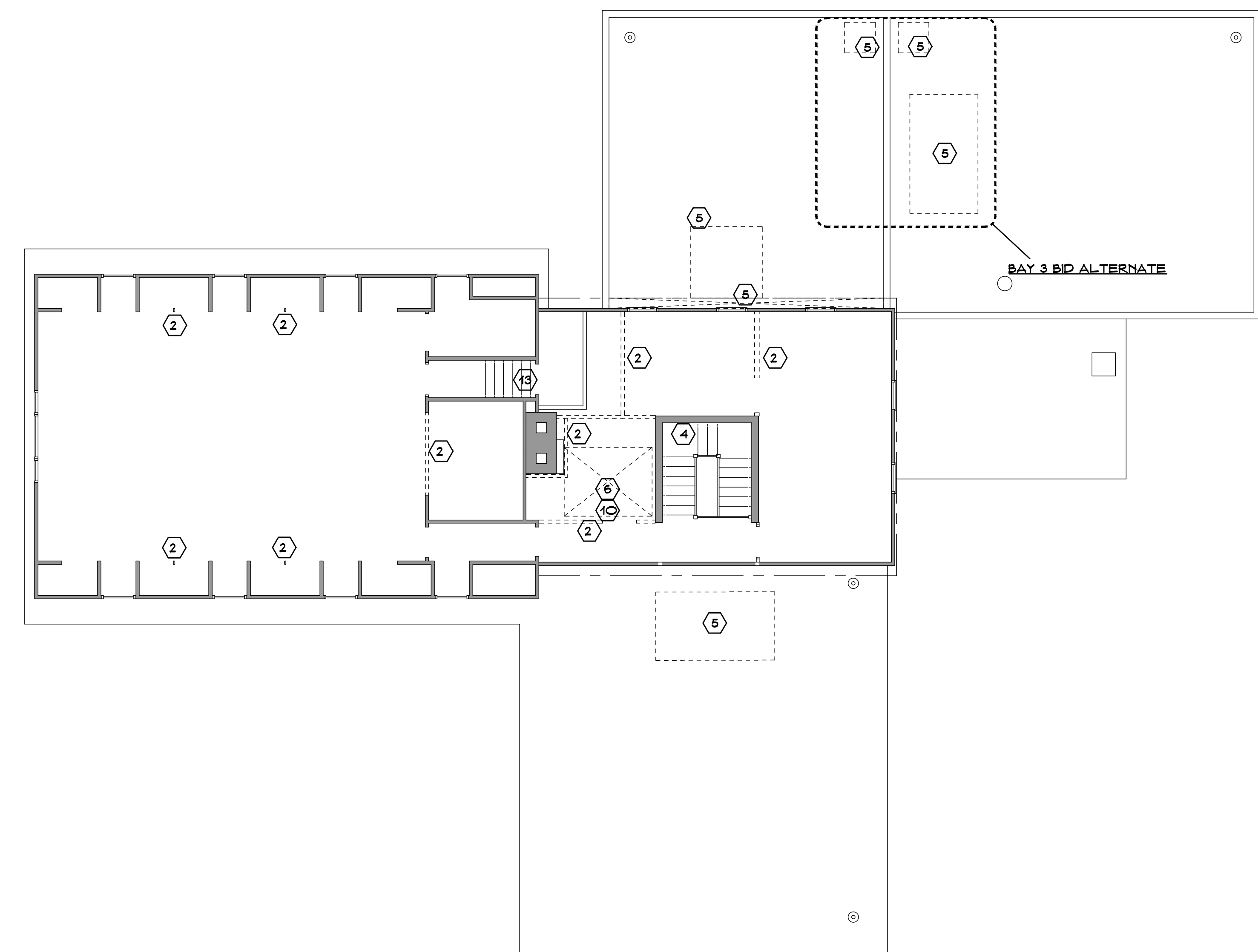
SPECIFIC DEMOLITION NOTES

NOTE: COORDINATE ALL DEMOLITION W/ NEW WORK.

- (1) REMOVE EXISTING DOOR, FRAME, CASING & DOOR HDWR.
- (2) REMOVE EXISTING WALL OR PORTION. COORDINATE WITH STRUCTURAL.
- (3) REMOVE EXISTING SLAB. COORDINATE WITH STRUCTURAL AND PLUMBING SCOPE.
- (4) REMOVE EXISTING GWB WALL FINISH DOWN TO EXISTING FRAMING & FURRING. COORD W/NEW WORK.
- (5) REMOVE PORTION OF EXISTING ROOFING FOR NEW SCOPE.
- (6) REMOVE PORTION OF EXISTING FLOOR CONSTRUCTION, COORD. W/STRUCTURAL.
- (7) REMOVE EXISTING TRENCH DRAIN GRATING AND ASSOCIATED SUPPORT ANGLES. PREP FOR NEW CONC. INFILL.
- (8) SCARIFY EXISTING CONCRETE FINISH IN PREPARATION OF NEW SLAB LEVELING.
- (9) REMOVE EXISTING BAY DOORS, GUIDE RAILS. RETURN OPERATORS TO OWNER.
- (10) REMOVE EXISTING PORTION OF EXISTING ROOF CONST., ROOFING, AND SUBSTRATE. COORD. WITH STRUCTURAL.
- (11) REMOVE EXISTING CASEWORK.
- (12) REMOVE EXISTING FLOORING. COORD. W/ENVIRONMENTAL ABATEMENT.
- (13) REMOVE EXISTING WOOD PANELING THROUGHOUT EXISTING STAIR & EXIT WAY.
- (14) REMOVE EXISTING WOOD HANDRAILS.



FIRST FLOOR DEMOLITION PLAN 1/A3
SCALE: 1/8" = 1'-0"
NORTH



SECOND FLOOR DEMOLITION PLAN 2/A3
SCALE: 1/8" = 1'-0"
NORTH

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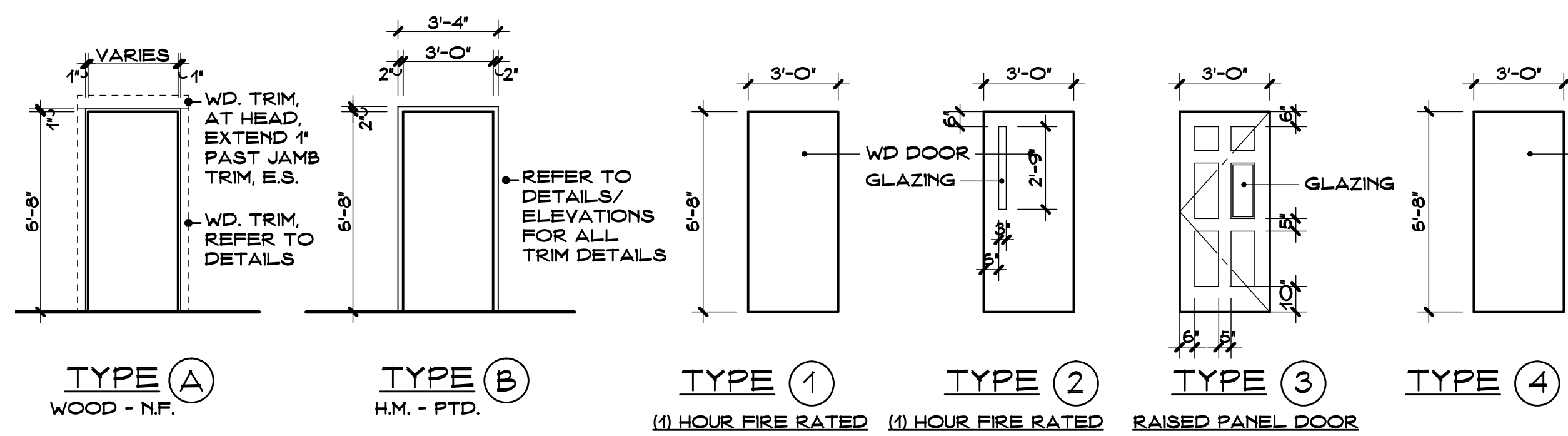
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DEMOLITION PLAN

Date:
5.18.16
Scale:
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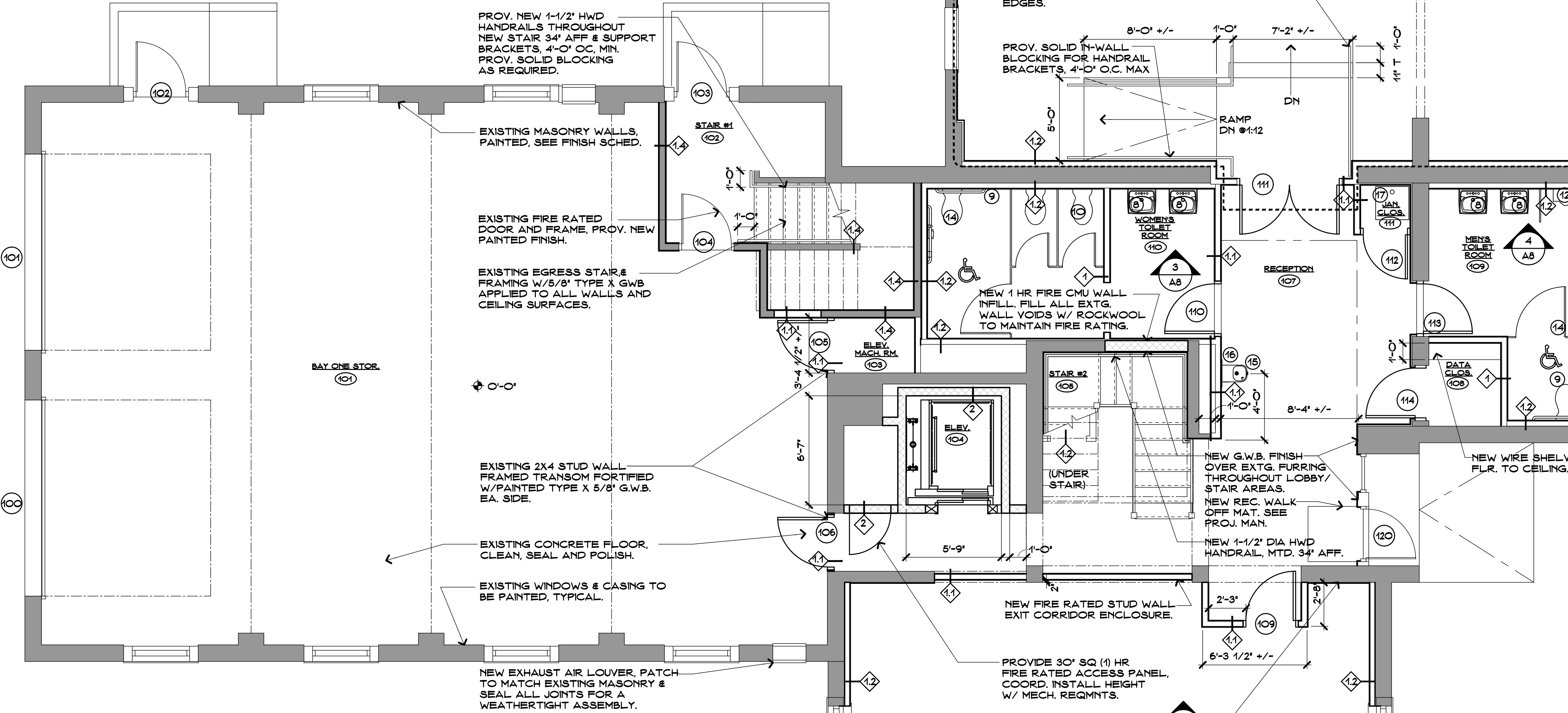
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A3

TOILET ACCESSORY LEGEND

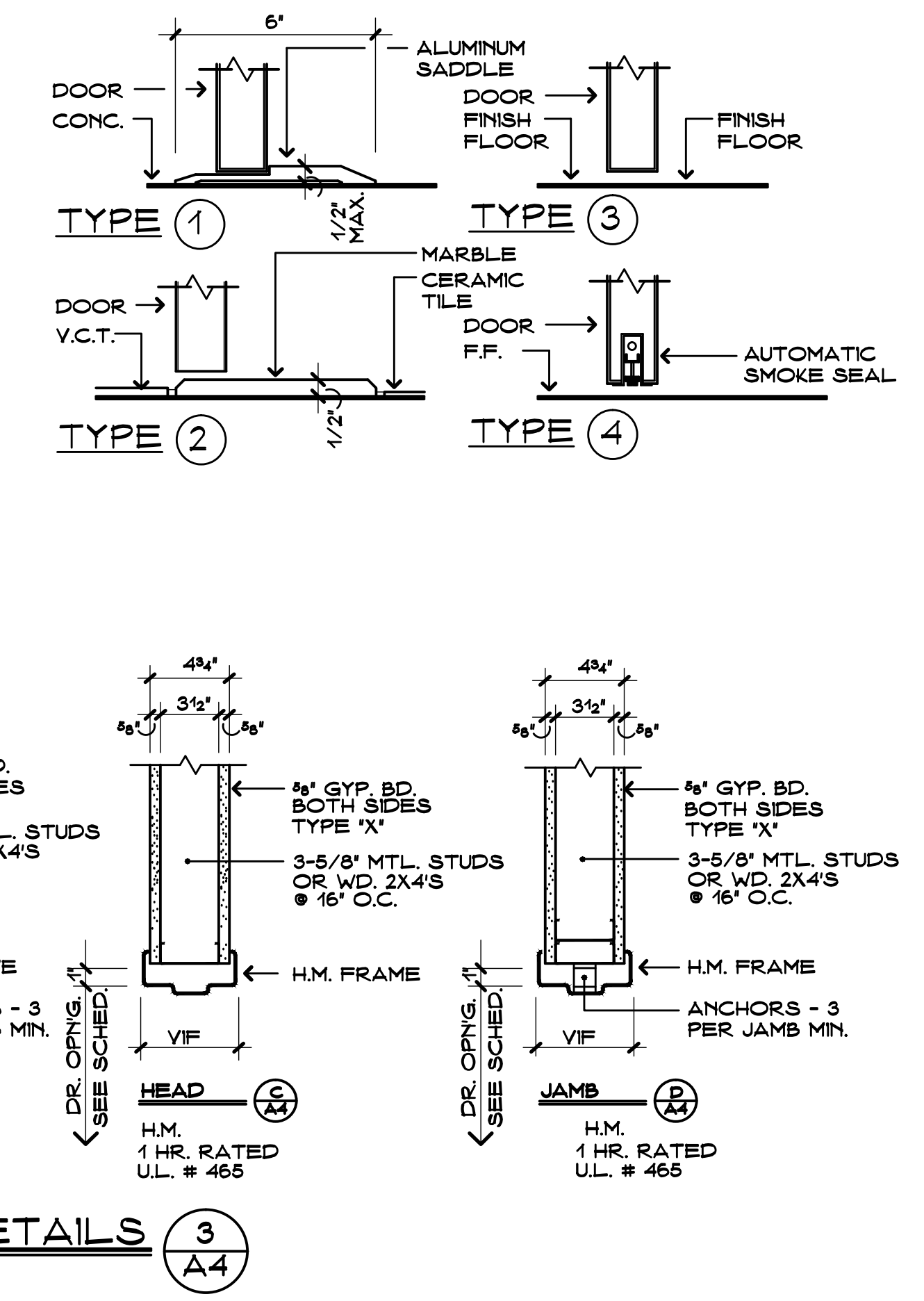
- 2X3 MIRROR - MOUNTED 3'-4" AFF. TO BOTTOM OF MIRROR
 - NOT USED
 - 42" GRAB BAR - MOUNTED 36" ABOVE FINISH FLOOR
 - 36" GRAB BAR - MOUNTED 39" ABOVE FINISH FLOOR
 - H.C. PAPER TOWEL DISPENSER - SURFACE MTD. 48" AFF.
 - H.C. SOAP DISPENSER - SURFACE MTD - MTD
 - TOILET PAPER DISPENSER - SURFACE MTD. - MTD. 4'-7" A.F.F.
 - WALL MOUNTED H.C. LAVATORY - MTD. 2'-10" ABOVE FIN. FL. AND AS INDICATED IN THE ELEVATIONS.
 - H.C. WATER CLOSET - MTD. 4'-6" ABOVE FINISH FLOOR
 - WALL MOUNTED STD. WATER CLOSET
 - 48" VERTICAL GRAB BAR - BOTTOM MOUNTED 39" A.F.F.
 - WALL MOUNTED URINAL
 - CALL-FOR-AID PULL STRING IN SINGLE OCCUPANT ROOMS. SEE ALSO ELECT. DRAWINGS.
 - METAL PARTITIONS AND DOOR
 - ADA COMPLIANT DRINKING FOUNTAIN MOUNTED 34" AFF AT BOWL RIM.
 - DEFIBRILLATOR DEVICE BY OWNER. COORD. W/OWNER ON LOCATION.
 - JANITOR'S MOP SINK.
- STANDARD MOUNTING HEIGHTS SHALL CONFORM TO THE MOST RESTRICTIVE CODE FOR ALL TOILET ACCESSORIES



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



TYPICAL HEAD & JAMB DETAILS 3
SCALE: 1-1/2" = 1'-0"



| ROOM FINISH SCHEDULE | | | | | | |
|---------------------------|-------------|------------------------------------|---------|---|--|--|
| ROOM | FLOOR | WALL FINISH | CEILING | NOTES | | |
| 101 BAY ONE | EX. NA | P.M. P.M. P.M. P.M. | E.S. | PANT ALL NEW G.W.B. AT STAR ENCLOSURE | | |
| 102 STAIR #1 | EX. RB, EX. | G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | EXTG. PANELS TO REMAIN ON NON RATED WALLS | | |
| 103 ELEVATOR MACHINE ROOM | EX. R.B. | G.W.B. G.W.B. PM | P.M. | G.W.B. | | |
| 104 ELEVATOR | R.F. | | | CAB FINISHES BY MANUF STANDARD RANGE | | |
| 106 STAR #2 | EX. EX. | G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | ONE HR FIRE RATED CEILING EQUIVALENCY | | |
| 107 EXERCISE ROOM #1 | EX. COIC | R.B. G.W.B. G.W.B. G.W.B. G.W.B. | E.S. | PAINTED STRUCTURE & DECK | | |
| 107 RECEPTION | EX. COIC | R.B. G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | | | |
| 108 DATA CLOSET | EX. R.B. | P.M. G.W.B. G.W.B. P.M. | A.C.T. | | | |
| 109 MENS TOILET ROOM | EX. COIC | F.R.P. F.R.P. F.R.P. F.R.P. F.R.P. | A.C.T. | EXTEND FRP PANELS UP 6'-0" WITH G.W.B. TO CEILING | | |
| 110 WOMENS TOILET ROOM | EX. COIC | F.R.P. F.R.P. F.R.P. F.R.P. F.R.P. | A.C.T. | EXTEND FRP PANELS UP 6'-0" WITH G.W.B. TO CEILING | | |
| 111 JANITOR'S CLOSET | EX. COIC | R.B. G.W.B. G.W.B. G.W.B. G.W.B. | E.S. | | | |
| 112 EXERCISE ROOM #2 | EX. COIC | R.B. G.W.B. G.W.B. G.W.B. G.W.B. | E.S. | PAINTED STRUCTURE & DECK | | |
| 113 ELECTRICAL CLOSET | EX. EX. | P.M. P.M. P.M. P.M. | E.S. | PAINTED STRUCTURE & DECK | | |
| 114 MECHANICAL CLOSET #1 | EX. EX. | P.M. P.M. P.M. P.M. | E.S. | PAINTED STRUCTURE & DECK | | |
| 200 MULT-PURPOSE ROOM | EX. W.D. | G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | | | |
| 201 UNISEX TOILET ROOM | R.F. R.B. | G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | | | |
| 202 KITCHENETTE | R.F. R.B. | G.W.B. G.W.B. G.W.B. FRP | A.C.T. | | | |
| 203 CORRIDOR | EX. R.B. | G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | | | |
| 204 MECHANICAL ROOM | EX. R.B. | G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | | | |
| 205 LAUNDRY ROOM | EX. R.B. | G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | | | |
| 206 MEETING ROOM | EX. W.D. | G.W.B. G.W.B. G.W.B. G.W.B. | G.W.B. | | | |

| LEGEND | | NOTES | |
|--------|-------------------------------|-------|---|
| A.C.T. | - ACOUSTICAL CEILING TILE | 1. | ALL EXISTING DOORS & FRAMES TO BE PAINTED. |
| G.W.B. | - GYPSUM WALL BOARD, PAINTED. | 2. | ALL EXISTING FINISHED WALLS TO BE PAINTED. |
| E.S. | - EXPOSED STRUCTURE | 3. | ALL EXISTING AND NEW CONCRETE FLOORS SHALL BE SEALED. |
| P.M. | - PAINTED MASONRY | 4. | ALL MULT-PURPOSE ROOMS CLOSETS SHALL BE FINISHED W/ PAINTED G.W.B & RUBBER BASE. ALL M.P. ALCOVES SHALL HAVE PAINTED G.W.B & WOOD BASE. |
| R.F. | - RESILIENT FLOORING | | |
| R.B. | - RUBBER BASE | | |
| C.T. | - CERAMIC TILE | | |
| EX. | - EXTG. TO REMAIN | | |
| NA | - NOT APPLICABLE | | |
| F.R.P. | - FIBER REINFORCED PANELS | | |

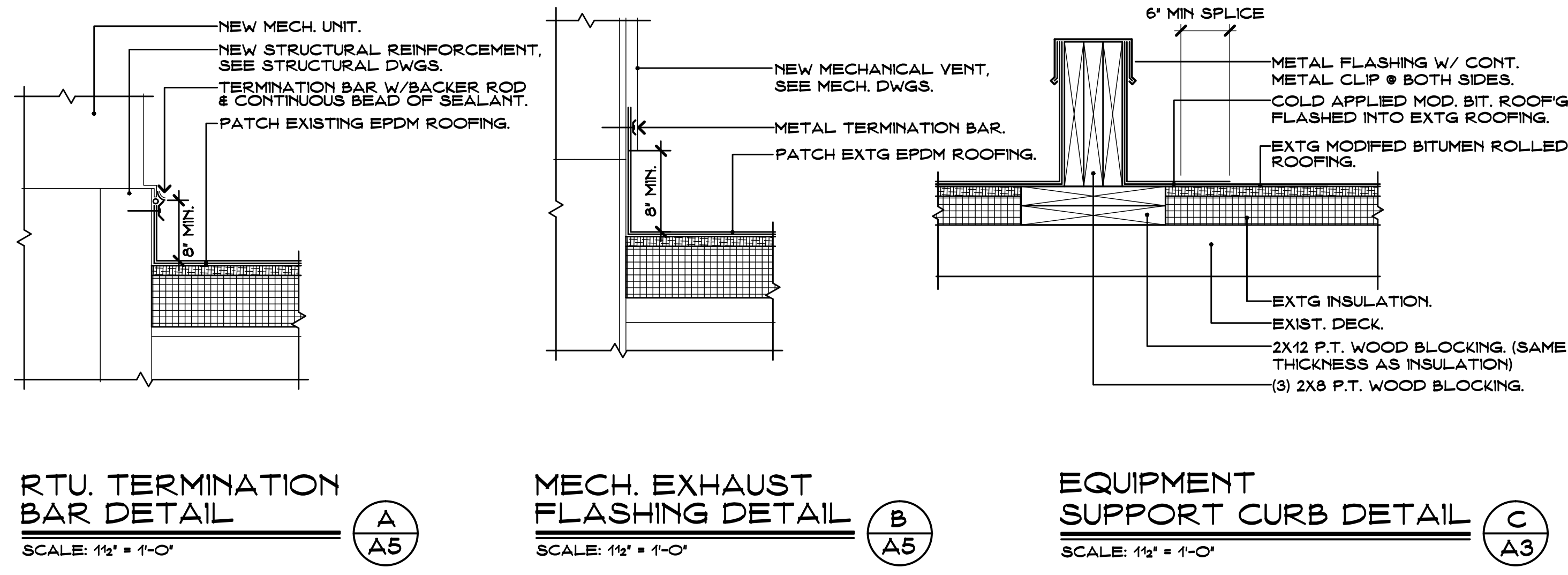
| FIRST FLOOR DOOR SCHEDULE | | | | | | | | | | | | |
|---------------------------|-------------------|---------|------------------|----------|-------------|-------------|-------------------------------|---------------|-----------|-----------------------|---------|--|
| DOOR NUMBER | DOOR | | FRAME | | | FIRE RATING | HARDWARE - SEE PROJECT MANUAL | | | | | REMARKS |
| | SIZE | GLAZING | DETAIL/SHEET NO. | MATERIAL | HEAD DETAIL | | JAMB DETAIL | SADDLE DETAIL | FIRE CODE | DISABLED REQUIREMENTS | SIGNAGE | |
| 100 | 9'-0" X 6'-8" | | | | | | | | | | | |
| 101 | 6'-0" X 6'-8" | | | | | | | | | | | |
| 102 | 5'-7" X 8'-0" +/- | | | | | | | | | | | |
| 103 | 8'-3" X 8'-0" +/- | | | | | | | | | | | |
| 104 | | | | | | | | | | | | |
| 105 | 1 | WD | A HM | C A4 | D A4 | 4 | | | | | | EXTG. DOOR/NEW HARDWARE SET |
| 106 | 1 | WD | A HM | C A4 | D A4 | 4 | | | | | | |
| 107 | 3 | WC | - WC | 1 A7 | 2 A7 | 1 | | | | | | |
| 108 | 3 | WC | - WC | 1 A7 | 2 A7 | 1 | | | | | | |
| 109 | 2 | WD | A HM | C A4 | D A4 | 4 | | | | | | |
| 110 | 1 | WD | A HM | C A4 | D A4 | 2 | | | | | | |
| 111 | 2 | WD | A HM | C A4 | D A4 | 4 | | | | | | BD ALTERNATE |
| 112 | 1 | WD | A HM | C A4 | D A4 | 4 | | | | | | |
| 113 | 1 | WD | A HM | C A4 | D A4 | 2 | | | | | | |
| 114 | 1 | WD | A HM | C A4 | D A4 | 4 | | | | | | |
| 115 | | | | | | | | | | | | |
| 116 | | | | | | | | | | | | |
| 117 | | | | | | | | | | | | |
| 118 | | | | | | | | | | | | |
| 119 | | | | | | | | | | | | |
| 120 | | | | | | | | | | | | PREP FRAME FOR NEW MAG LOCK & POWER TRANSFER FOR CARD READER |
| 121 | | | | | | | | | | | | |

FIRST FLOOR PLAN 2
SCALE: 1/4" = 1'-0"

Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

FIRST FLOOR PLAN, ROOM FINISH SCHEDULE & DOOR SCHEDULE
Date: 5.18.18
Scale: AS NOTED
Drawn By: DW
Project Number: 11.147

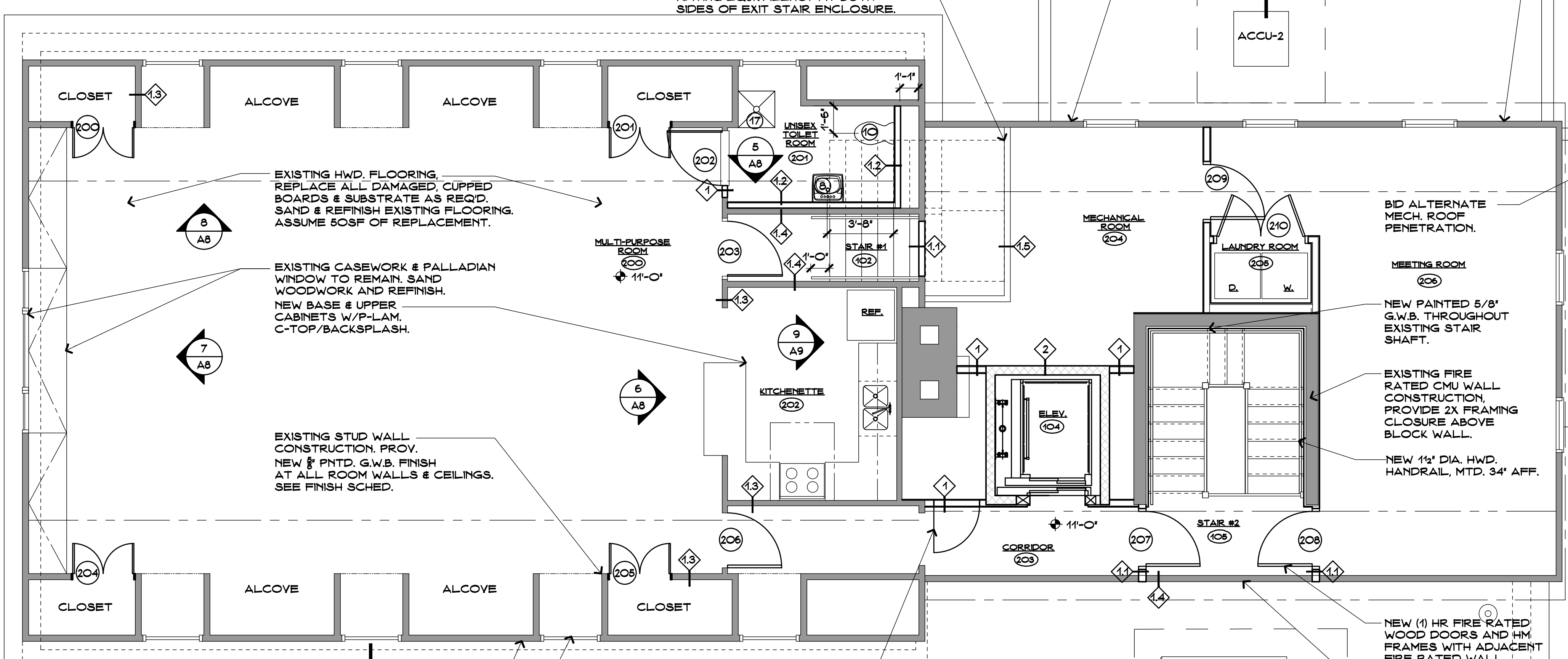


NEW SECONDARY ROOF DRAINS, RE-ROOF ALL AFFECTED AREAS IN KIND FOR A POSITIVE SLOPE.

EXISTING ROLLED ROOFING. CONTRACTOR TO REMOVE PORTION OF ROOFING ALONG WALL INTERSECTION AND CONFIRM WATER INFILTRATION TO BAY 3 BELOW. REMOVE PORTION OF EXTERIOR WALL. SHAKES AS REQUIRED TO ACHIEVE 3" MIN. FLASHING UP TURN TO WALL. PROVIDE PEEL AND STICK FLASHING OVER EXISTING METAL FLASHING AT ROOF/WALL AREAS & BELOW METAL COPING/WALL INTERSECTION. CORRECT ROOF PONDING ISSUE AT WALL. W/TAPERED INSULATION, RE-ROOF AND PATCH ALL AREAS AFFECTED W/ MOD. BIT. ROOFING.

NEW ROOFTOP MECHANICAL UNIT, SEE MECH. DWGS. FOR MORE INFO. RE-ROOF EXTG. EPDM ROOFING IN AREAS AFFECTED. TYP. OF (2) AREAS. ASSUME MIN 3" FROM FACE OF NEW MECH. UNIT. TYPICAL FOR ALL NEW ROOF MECH. EQUIPMENT.

BID ALTERNATE MECHANICAL SCREEN ENCLOSURE. SEE MECH & SPECS FOR MORE INFO. TYP OF (2) UNITS.

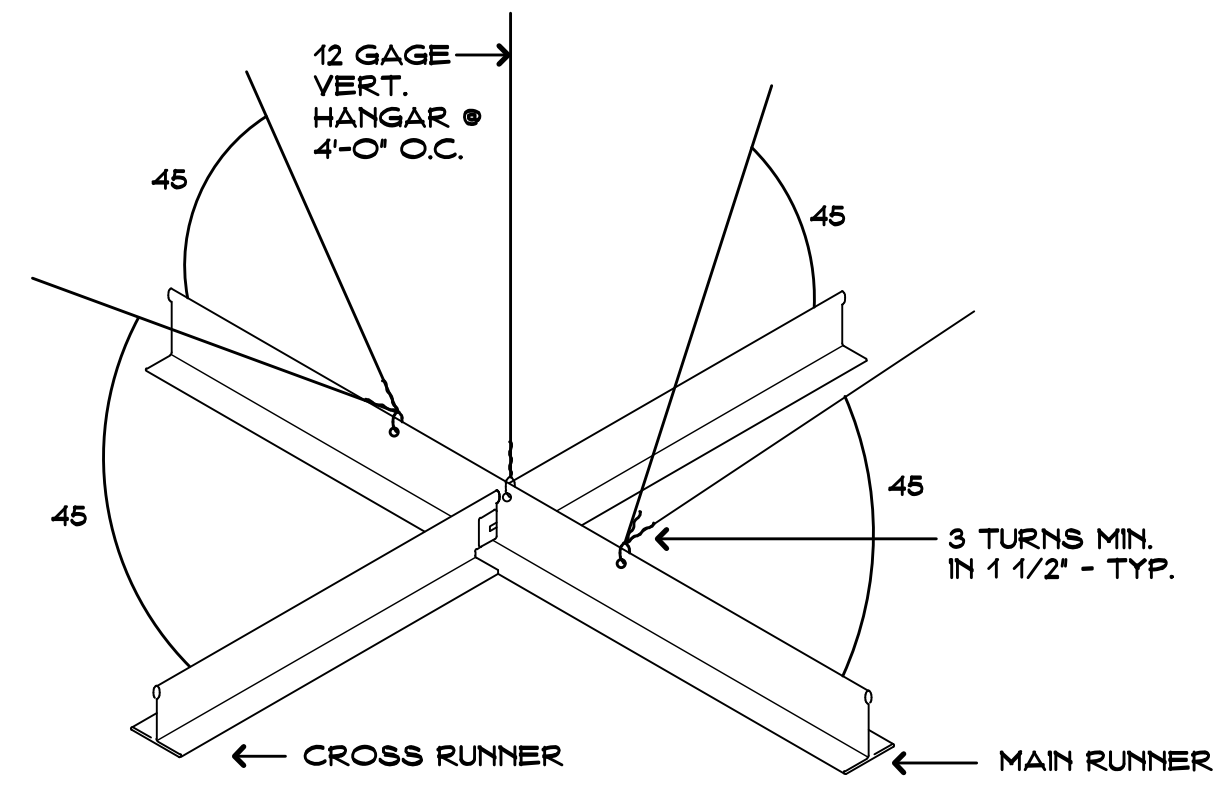


| DOOR | | FRAME | | | FIRE RATING | | HARDWARE - SEE PROJECT MANUAL | | | | REMARKS | | | | | | | | | | | |
|-------------|---------------|----------|---------|------------------------|------------------|---------------------------|-------------------------------|-------------------------|-------------------------|-------------------------|---------------------|-------------------|----------------------|-----------------------|-----------|-------------|--------------------|-----------------|----------------------|---------|---------|-------------|
| DOOR NUMBER | SIZE | MATERIAL | GLAZING | TYPE - SEE FRAME ELEV. | DETAIL/SHEET NO. | RESIST'S PASSAGE OF SMOKE | 'A' LABELED (90 MINUTE) | 'B' LABELED (60 MINUTE) | 'C' LABELED (45 MINUTE) | 'D' LABELED (20 MINUTE) | PANIC RELEASE LATCH | LATCHING/LOCKABLE | ELECTRO-MECH. CLOSER | DELAYED ACTION CLOSER | PUSH/PULL | KICK PLATES | LEVER HANDLES/LOCK | TACTILE WARNING | ACCESSIBLE THRESHOLD | SIGNAGE | REMARKS | |
| 200 | 3'-0" X 6'-9" | WD | | A | WD A A4 B A4 | | | | | | | | | | | | | | | | | |
| 201 | 6'-0" X 6'-9" | WD | | A | WD A A4 B A4 | | | | | | | | | | | | | | | | | |
| 202 | 4'-0" X 6'-9" | WD | | A | WD A A4 B A4 | | | | | | | | | | | | | | | | | TOILET ROOM |
| 203 | 1'-5" X 6'-9" | WD | GL-13 | B | HM C A4 D A4 | | | | | | | | | | | | | | | | | EXIT STAIR |
| 204 | 5'-4" X 5'-6" | WD | | A | WD A A4 B A4 | | | | | | | | | | | | | | | | | |
| 205 | 4'-0" X 6'-9" | WD | | A | WD A A4 B A4 | | | | | | | | | | | | | | | | | |
| 206 | 4'-0" X 6'-9" | WD | | A | WD A A4 B A4 | | | | | | | | | | | | | | | | | |
| 207 | 2'-0" X 6'-9" | WD | GL-13 | B | HM C A4 D A4 | | | | | | | | | | | | | | | | | EXIT STAIR |
| 208 | 2'-0" X 6'-9" | WD | GL-13 | B | HM C A4 D A4 | | | | | | | | | | | | | | | | | EXIT STAIR |
| 209 | 4'-0" X 6'-9" | WD | GL-13 | A | WD A A4 B A4 | | | | | | | | | | | | | | | | | |
| 210 | 4'-0" X 6'-9" | WD | | A | WD A A4 B A4 | | | | | | | | | | | | | | | | | |

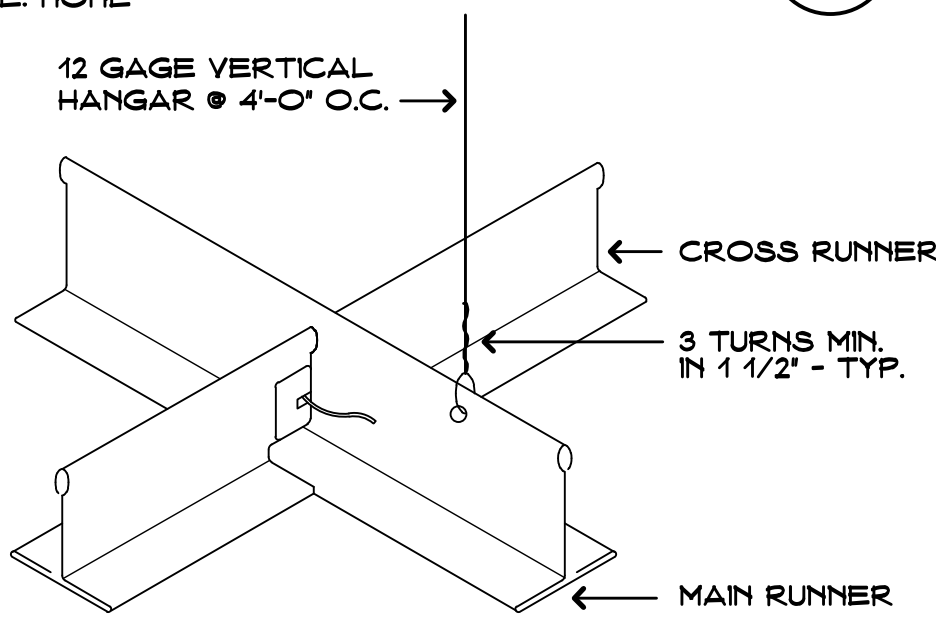
LEGEND
HM - HOLLOW METAL
TEMP - TEMPERED
WD - WOOD

NOTE: PROVIDE HARDWOOD CASING AT ALL DOORS PER INTERIOR ELEVATIONS. CASING SHALL BE 5/4 X 4 JAMB AND HEADS AT HM. FRAMES. ROUT OUT MATERIAL AT NEW HM. FRAMES WITH A 1/4" REVEAL FROM FINISH OPENING.

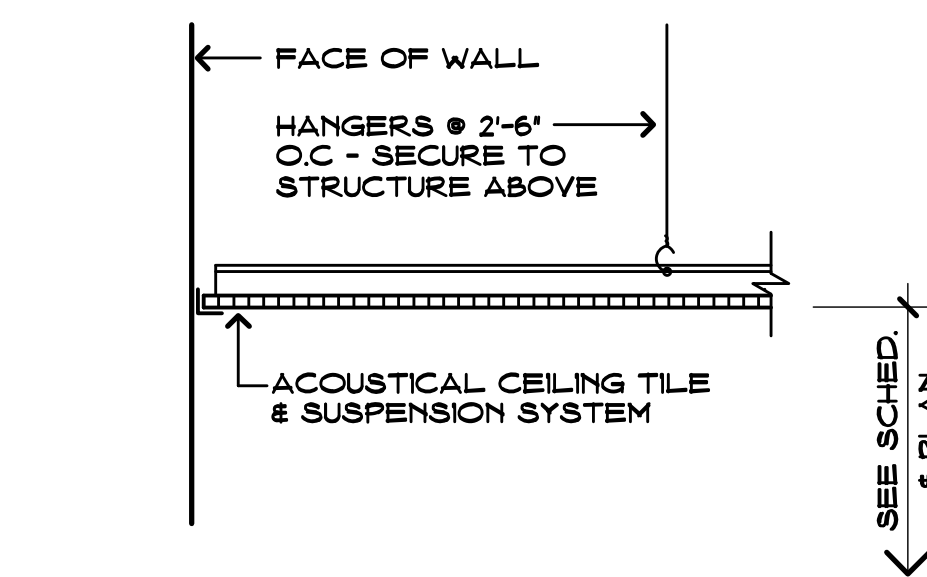
SECOND FLOOR PLAN 1/A5
SCALE: 1/8" = 1'-0"



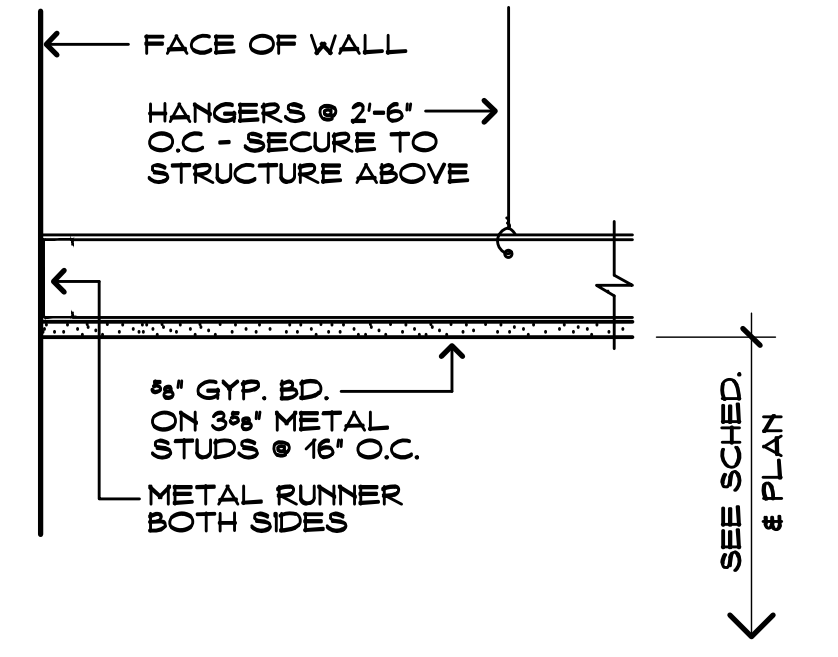
SEISMIC BRACING DETAIL A
SCALE: NONE



NOTE:
BRACING TO OCCUR
@ 4'-0" O.C. - TYP.



TYP. CEILING DETAIL B
SCALE: 1 1/2" = 1'-0"



TYP. CEILING DETAIL C
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES

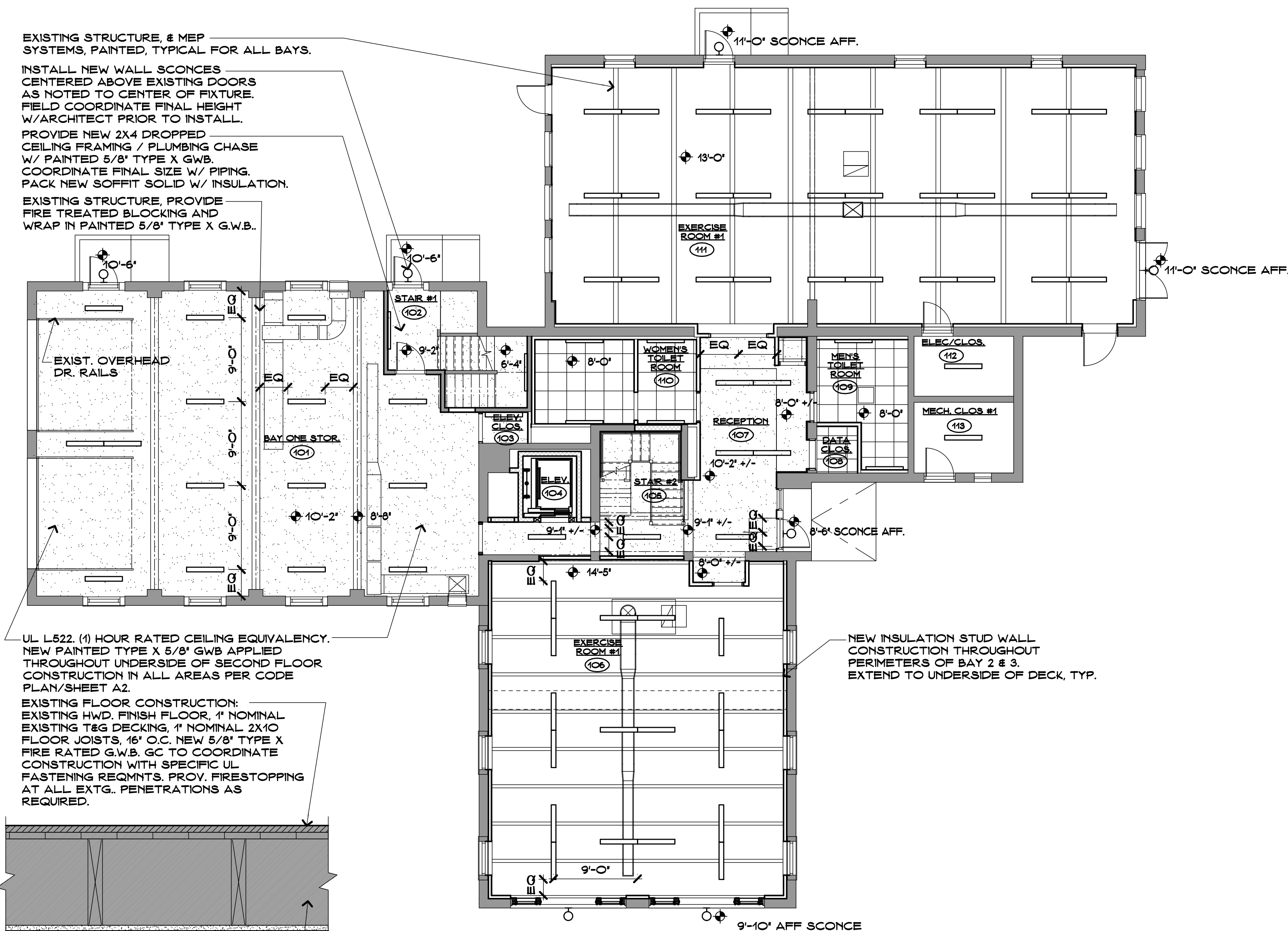
1. SEAL ALL DUCT & PIPE PENETRATIONS THROUGH SMOKE & FIRE RATED WALLS WITH SAFING INSULATION - SEE CODE PLAN DRAWING FOR LOCATIONS OF ALL FIRE RATED PARTITIONS.
2. FOR ADDITIONAL LIGHTING INFORMATION - SEE ELECTRICAL DRAWINGS
3. FOR ADDITIONAL MECHANICAL INFORMATION - SEE MECHANICAL DRAWINGS
4. FOR ADDITIONAL PLUMBING & FIRE PROTECTION INFORMATION - SEE PLUMBING AND FIRE PROTECTION DRAWINGS
5. FOR CEILING HEIGHTS - SEE ROOM FIN. SCHEDULE & PLANS

RCP SYMBOL LEGEND

- 2X2 ACOUSTICAL CEILING TILE WITH SUPPORT SYSTEM SEE DETAIL A/A6
- PAINTED GYPSUM BOARD (P.G.B.)
- SUPPLY GRILLE SEE MECHANICAL DWGS.
- RETURN GRILLE SEE MECHANICAL DWGS.
- RECESSED DOWNLIGHT FIXT. SEE ELEC. DWGS.
- 2' X 4' FLUORESCENT RECESSED FIXTURE SEE ELEC. DWGS.
- 1' X 4' FLUORESCENT STRIP LIGHT FIXTURE SEE ELEC. DWGS.
- 4' X 4' FLUORESCENT STRIP LIGHT FIXTURE SEE ELEC. DWGS.
- WALL SCOTCH
- CEILING HEIGHT
- ACCESS PANEL (REF. MECH. DWGS)

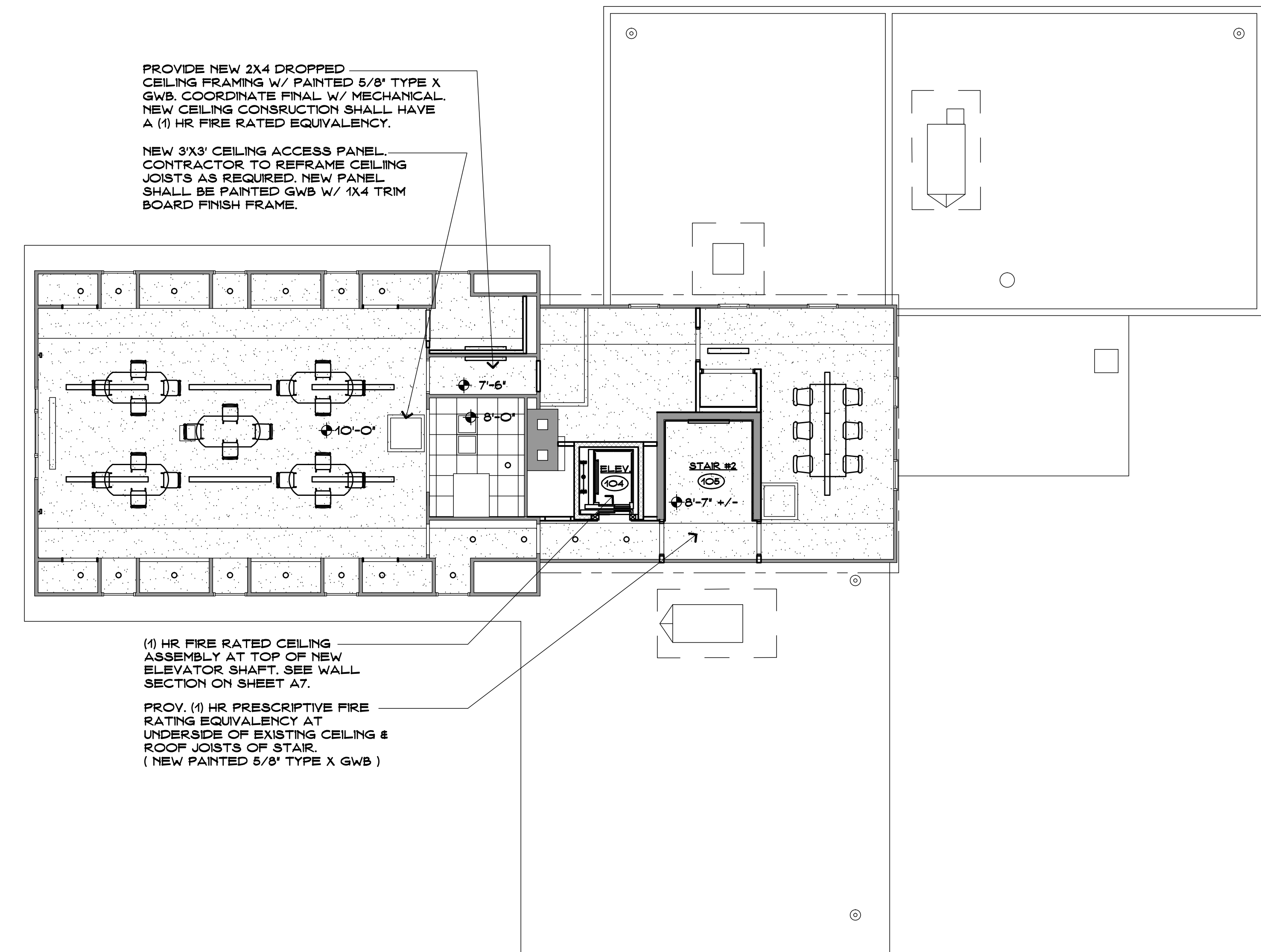
SYMBOL LEGEND

- EXISTING WALLS TO REMAIN.
- EXISTING TO BE REMOVED.
- NEW WALL TOOTHED INTO EXISTING ADJACENT WALL (SEE PARTITION TYPE)
- INDICATES CONSTRUCTION NOTE - SEE NOTES BELOW
- INDICATES DOOR NUMBER.
- ELEVATION OR SECTION NUMBER - DRAWING NUMBER.
- PLAN, SECTION, DETAIL OR ELEV. NUMBER.
- INDICATES DEMOLITION NOTE.
- INDICATES WINDOW TYPE.
- INDICATES WALL TYPE. (SEE DETAIL A/A27)
- NEW LIGHT FIXTURE (SEE ELECTRICAL DWGS)
- NEW 2X2 METAL CEILING PLATE W/ NEW MECHANICAL CEILING GRILL. (SEE MECHANICAL DWGS FOR GRILL SIZES)
- DEMO EXISTING ACOUSTICAL CEILING TILE AND EXISTING LIGHT FIXTURES (SEE ELECTRICAL DWGS FOR MORE INFO)
- DEMO EXISTING GYPSUM CEILING AND EXISTING LIGHT FIXTURES (SEE ELECTRICAL DWGS FOR MORE INFO)
- DEMO EXISTING ACOUSTICAL CEILING TILES, HARD CEILING AND EXISTING LIGHT FIXTURES (WOOD FRAMING ABOVE HARD CEILING TO REMAIN) (SEE ELECTRICAL DWGS FOR MORE INFO)
- NEW 2X2 ACOUSTICAL CEILING TILE (SEE ROOM FINISH SCHEDULE FOR TYPE) (SEE PROJ. MAN)
- NEW PAINTED GYPSUM WALL BOARD (SEE ROOM FINISH SCHEDULE) (SEE PROJ. MAN)
- AREA OF REFUGE (SEE ELECTRICAL DWGS) (SEE SIGNAGE PLANS)



TYPICAL FLOOR RATING DETAIL E
SCALE: 1/8" = 1'-0"

FIRST FLOOR PLAN RCP 1
SCALE: 1/8" = 1'-0"



SECOND FLOOR PLAN RCP 2
SCALE: 1/8" = 1'-0"



| Revision | Description | Date | Revised By |
|----------|-------------|------|------------|
| | | | |
| | | | |
| | | | |

EXISTING MASONRY OPENING BEYOND

PAINTED PVC BRICK MOLDING CASING.

NEW ROOF ASSEMBLY:
 2x8 WOOD JOISTS, 16' O.C.
 5/8" SHEATHING
 ICE & WATER SHIELD ALL NEW & EXTG. (TIE-IN AREAS)
 CONTINUOUS RIDGE VENTING
 NEW ASPHALT SHINGLES TO MATCH EXTG.
 R38 CLOSED CELL SPRAY FOAM INSULATION.
 COPPER DRIP EDGE & FLASHINGS.

NEW WOOD STUD INFILL CONSTRUCTION:
 2x6 WOOD STUDS, 16' O.C.
 1/2" CDX SHEATHING AND/OR
 1/2" PVC FINISH PANEL PAINTED
 1/2" PVC TRIM W/1/2" PVC QTR. RND.

COPPER HALF ROUND GUTTER & ROUND DNSPOUT TO MATCH EXTG.

5/8" PVC FASCIA W/1/2" PVC SOFFIT & CONT. CORRUGATED VENTING. MATCH EXTG. GABLE ROOF RAKE PROFILE.

1HR. RATED FLOOR/CEILING CONSTRUCTION GA. FC 4802. FILL CAVITY WITH R-38 SPRAY FOAM INSULATION.

EXTERIOR WALL CONSTRUCTION:
 CEMENT BOARD SHINGLE SIDING MATCH EXTG. EXPOSURE & MITERED CORNERS. PAINTED.
 WEATHER BARRIER
 1/2" CDX SUBSTRATE
 R-15 KRAFT FACED HIGH DENS. INS.
 2x4 WOOD STUDS, 16' O.C.
 5-5/8" CMU SHAFTWALL, UL 263.

METAL CLAD WOOD WINDOW & DOOR. SEE SPECIFICATIONS.

PATCH TO MATCH ALL AFFECTED EXISTING ROOFING. PROV. NEW COPPER FLASHINGS AT ALL NEW WALL/EXTG. ROOF INTERSECTIONS.

REFER TO STRUCTURAL DWGS. FOR SCOPE.

FURR OUT NEW HEADERS AS REQUIRED FOR NEW INTERIOR G.W.B. FINISH.

NEW 5/8" TYPE X FIRE RATED. PNTD. G.W.B. FINISH.

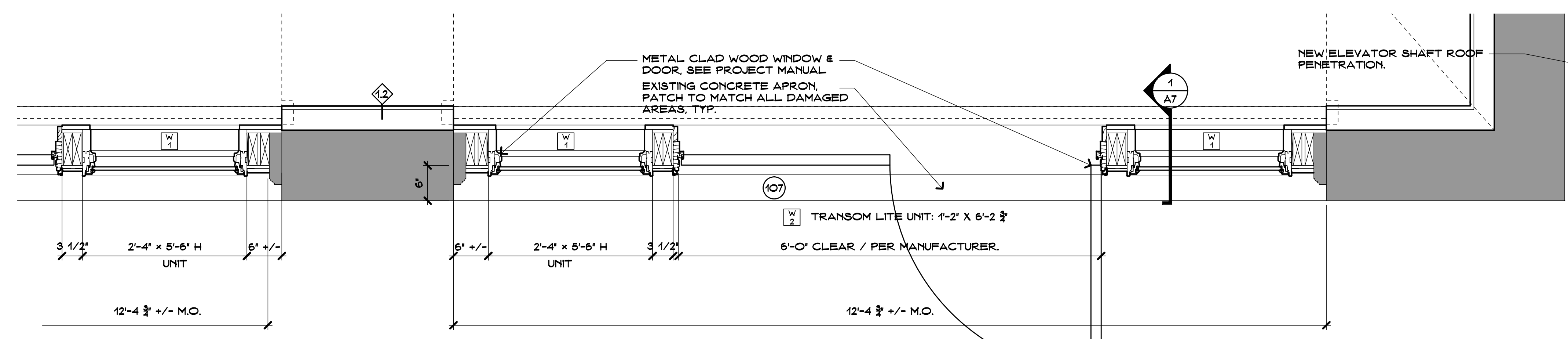
NEW ELEVATOR FRAME/OPNG. FLUSH TO NEW G.W.B. FINISH. WALL TYPE 2.

NEW PERIMETER STUD WALL BEYOND. SEE PLAN FOR SCOPE.

ACCESSIBLE DOOR THRESHOLD.

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

WALL SECTION 2
 SCALE: 1" = 1'-0"



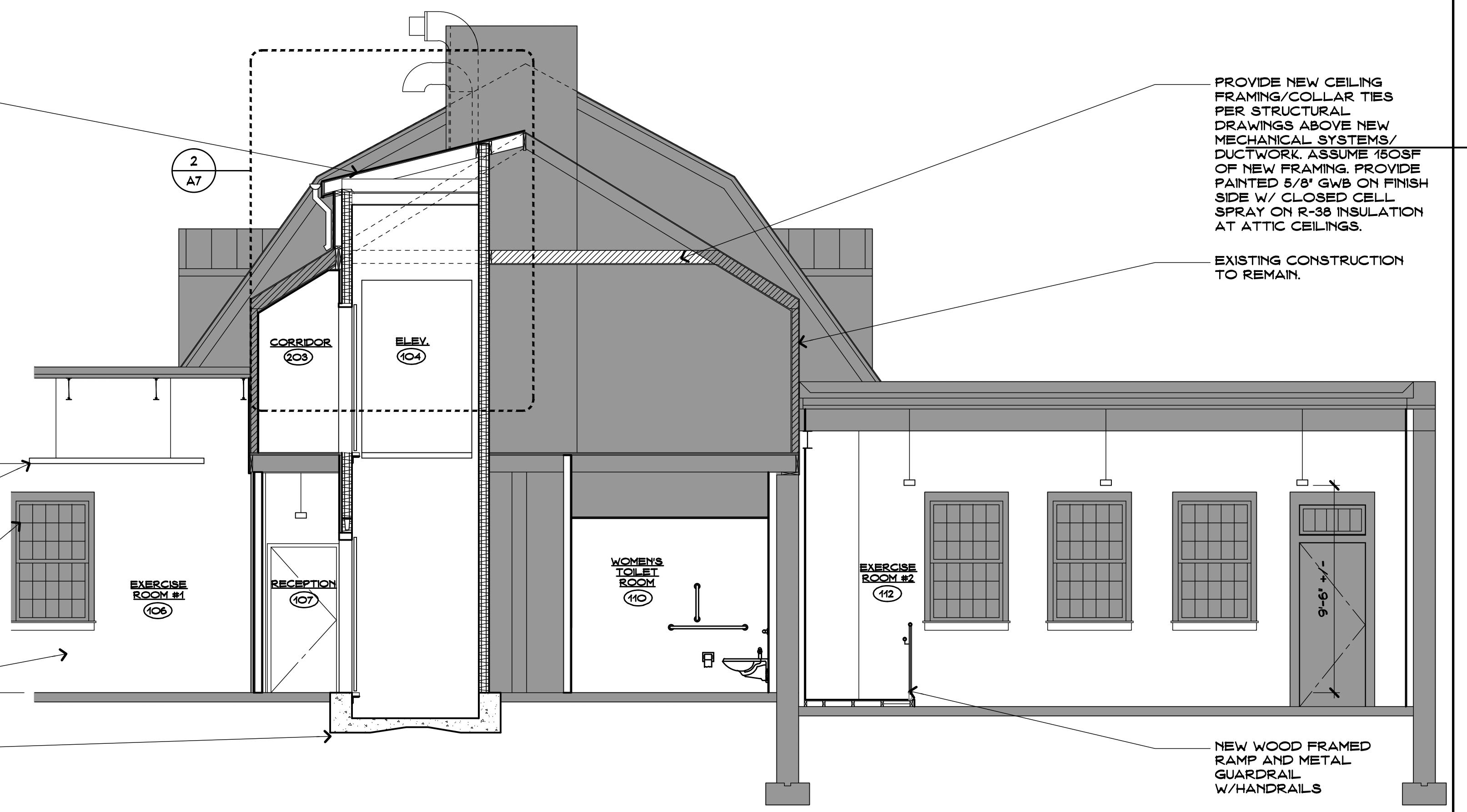
PLAN DETAIL 3
 SCALE: 1/4" = 1'-0"

NEW SUSPENDED LIGHTING. SEE ELECTRICAL DWGS.

EXTG. WINDOW CASINGS PAINTED & NEW STOOL EXTENSIONS. TYPICAL FOR BAYS 2 & 3 WINDOWS.

NEW INSULATED STUD WALL CONSTRUCTION W/PAINTED G.W.B.

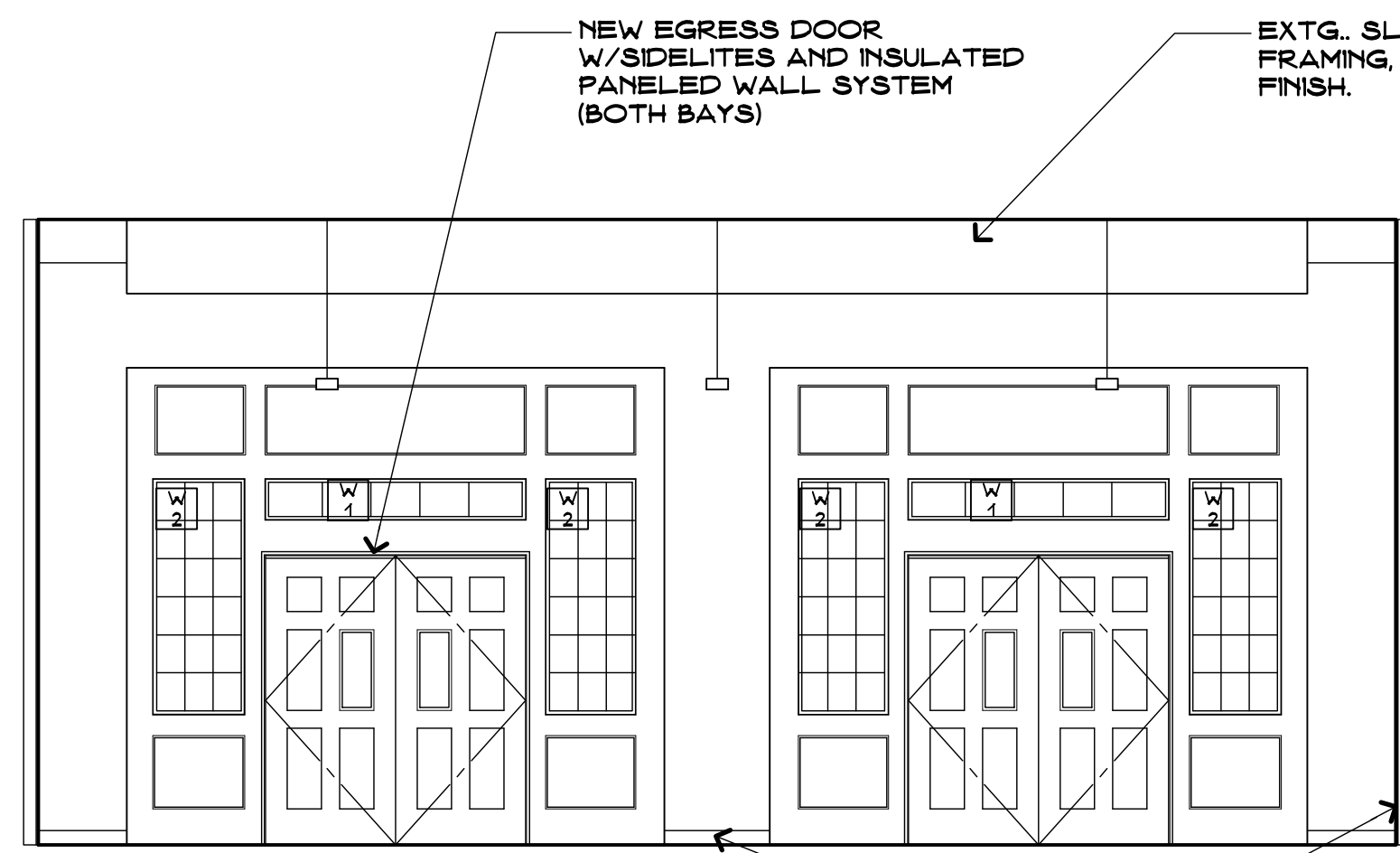
NEW ELEVATOR FOUNDATION/PIT CONSTRUCTION. SEE STRUCT. DWGS FOR DETAILS. PROVIDE BENTONITE W.P. SHEETING AROUND PERIMETER OF FOUNDATION.



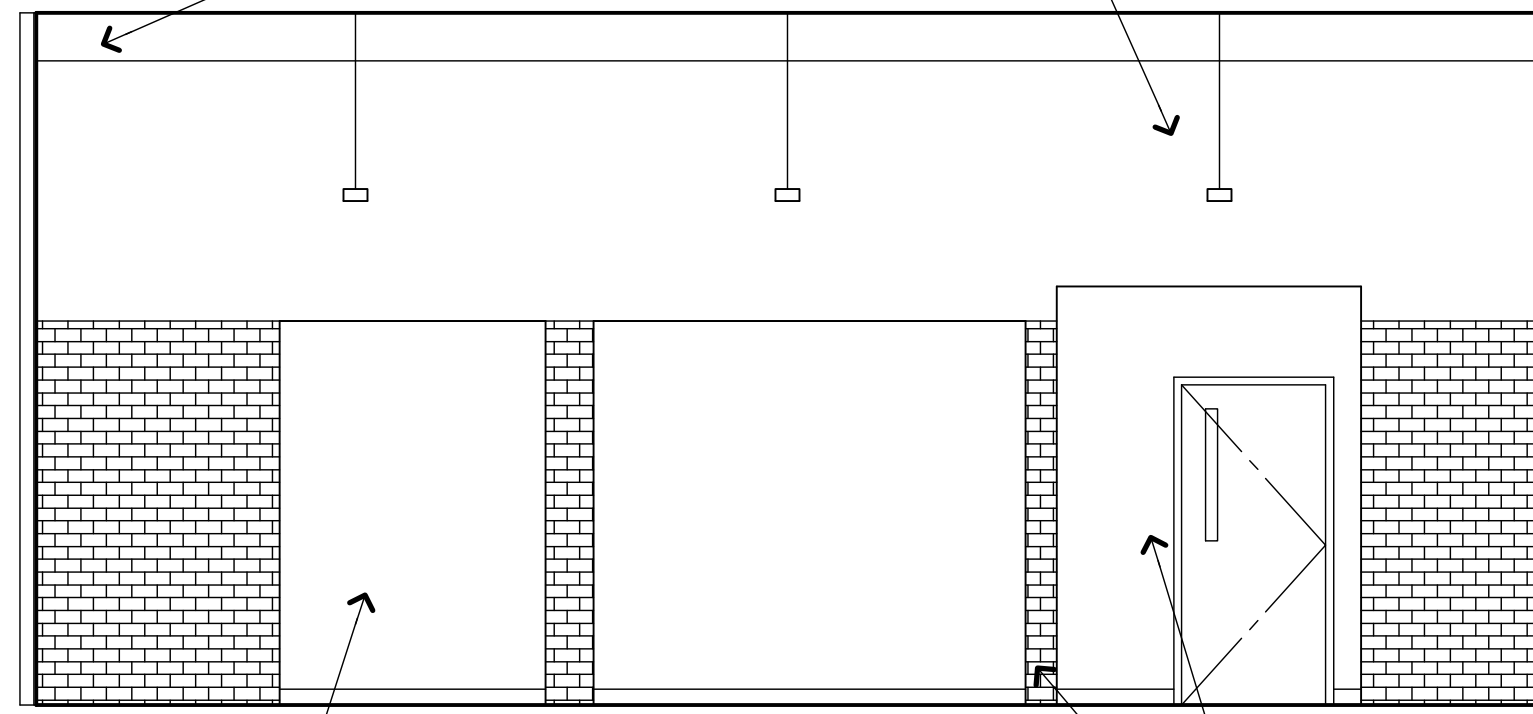
BUILDING SECTION 4
 SCALE: 1/4" = 1'-0"



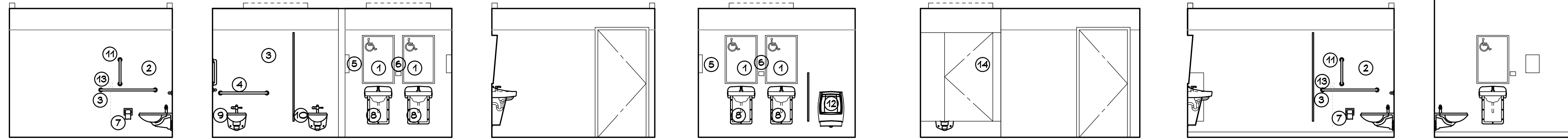
| Revision: | Description: | Date: | Revised By: |
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| | | | |
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| | | | |



BAY 2 ELEVATION 1
SCALE: 1/4" = 1'-0"



BAY 2 ELEVATION 2
SCALE: 1/4" = 1'-0"



GENERAL NOTES

1. SEAL ALL DUCT & PIPE PENETRATIONS THROUGH SMOKE & FIRE RATED WALLS WITH SAFING INSULATION - SEE CODE PLAN DRAWING FOR LOCATIONS OF ALL FIRE RATED PARTITIONS.
2. FOR ADDITIONAL LIGHTING INFORMATION - SEE ELECTRICAL DRAWINGS
3. FOR ADDITIONAL MECHANICAL INFORMATION - SEE MECHANICAL DRAWINGS
4. FOR ADDITIONAL PLUMBING & FIRE PROTECTION INFORMATION - SEE PLUMBING AND FIRE PROTECTION DRAWINGS
5. FOR CEILING HEIGHTS - SEE REFLECTED CEILING PLANS

TOILET ACCESSORY LEGEND

1. 2'X3' ADA TILT MIRROR - MOUNTED 3'-4" A.F.F. TO BOTTOM OF MIRROR
2. NOT USED
3. 42" GRAB BAR - MOUNTED 36" ABOVE FINISH FLOOR
4. 36" GRAB BAR - MOUNTED 33" ABOVE FINISH FLOOR
5. H.C. PAPER TOWEL DISPENSER, SURFACE MTD. 48" AFF.
6. H.C. SOAP DISPENSER - SURFACE MTD - MTD.
7. TOILET PAPER DISPENSER - SURFACE MTD - MTD. 1'-7" A.F.F.
8. WALL MOUNTED H.C. LAVATORY - MTD. 2'-10" ABOVE FIN. FL. AND AS INDICATED IN THE ELEVATIONS.
9. H.C. WATER CLOSET - MTD. 1'-6" ABOVE FINISHED FLOOR
10. WALL MOUNTED STD. WATER CLOSET
11. 48" VERTICAL GRAB BAR - BOTTOM MOUNTED 39" A.F.F.
12. WALL MOUNTED URINAL
13. CALL-FOR-AID PULL STRING IN SINGLE OCCUPANT ROOMS. SEE ALSO ELEC. DRAWINGS.
14. METAL PARTITIONS AND DOOR
15. ADA COMPLIANT DRINKING FOUNTAIN MOUNTED 34" AFF AT BOWL RM.
16. DEFBRILLATOR DEVICE BY OWNER. COORD. W/ OWNER ON LOCATION.
17. JANITOR'S MOP SINK

STANDARD MOUNTING HEIGHTS SHALL CONFORM TO THE MOST RESTRICTIVE CODE FOR ALL TOILET ACCESSORIES

RCP SYMBOL LEGEND

- TYPE 1 2'X2' ACOUSTICAL CEILING TILE WITH SUPPORT SYSTEM SEE DETAIL A/A8
- PAINTED GYPSUM BOARD (P.G.B.)
- SUPPLY GRILLE SEE MECHANICAL DWGS.
- RETURN GRILLE SEE MECHANICAL DWGS.
- RECESSED DOWNLIGHT FIXT. SEE ELEC. DWGS.
- 2' X 2' FLUORESCENT RECESSED FIXTURE SEE ELEC. DWGS.
- 1' X 4' FLUORESCENT STRIP LIGHT FIXTURE SEE ELEC. DWGS.
- 4' X 4' FLUORESCENT STRIP LIGHT FIXTURE SEE ELEC. DWGS.
- WALL SCONCE
- CEILING HEIGHT
- ACCESS PANEL (REF. MECH. DWGS)

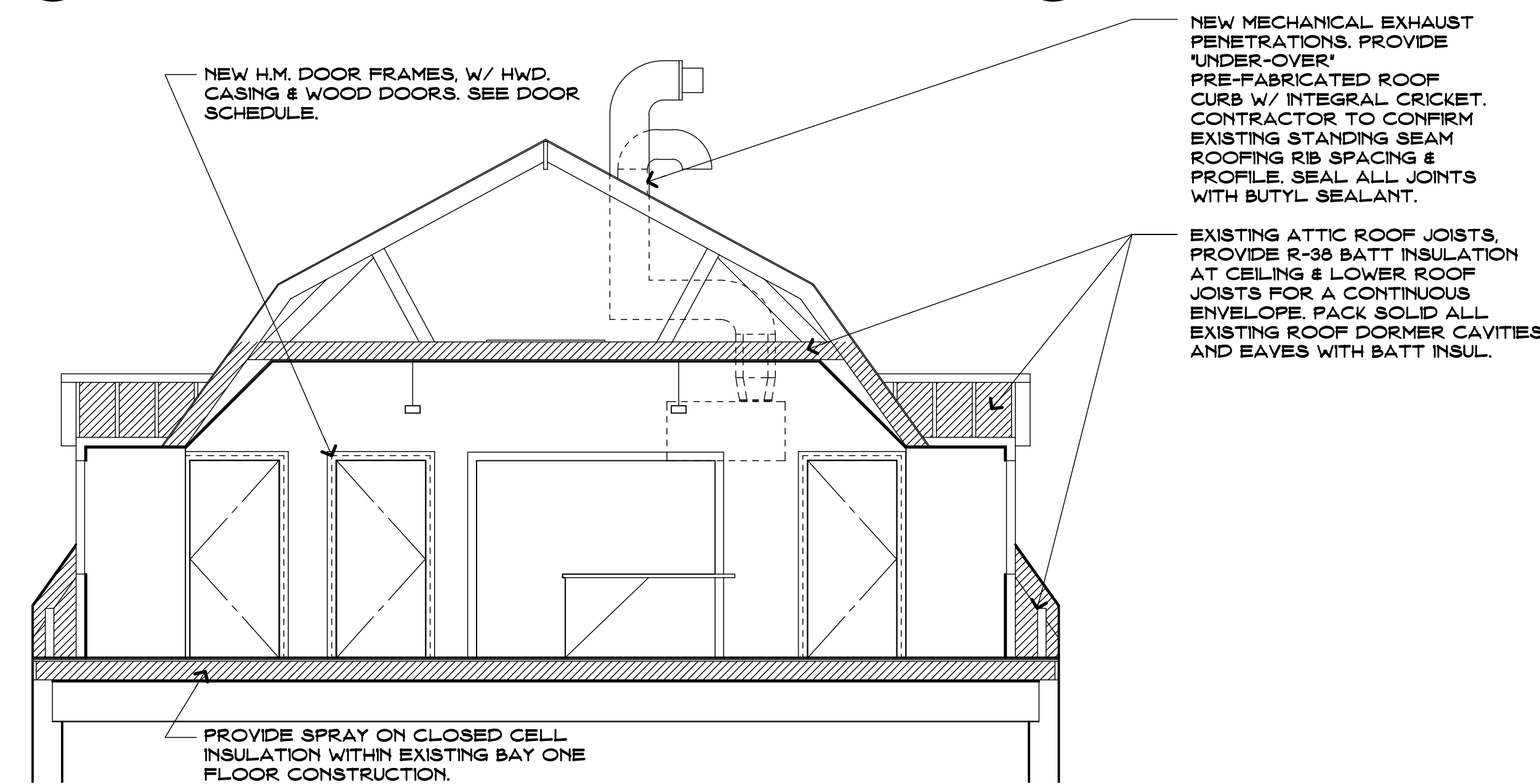
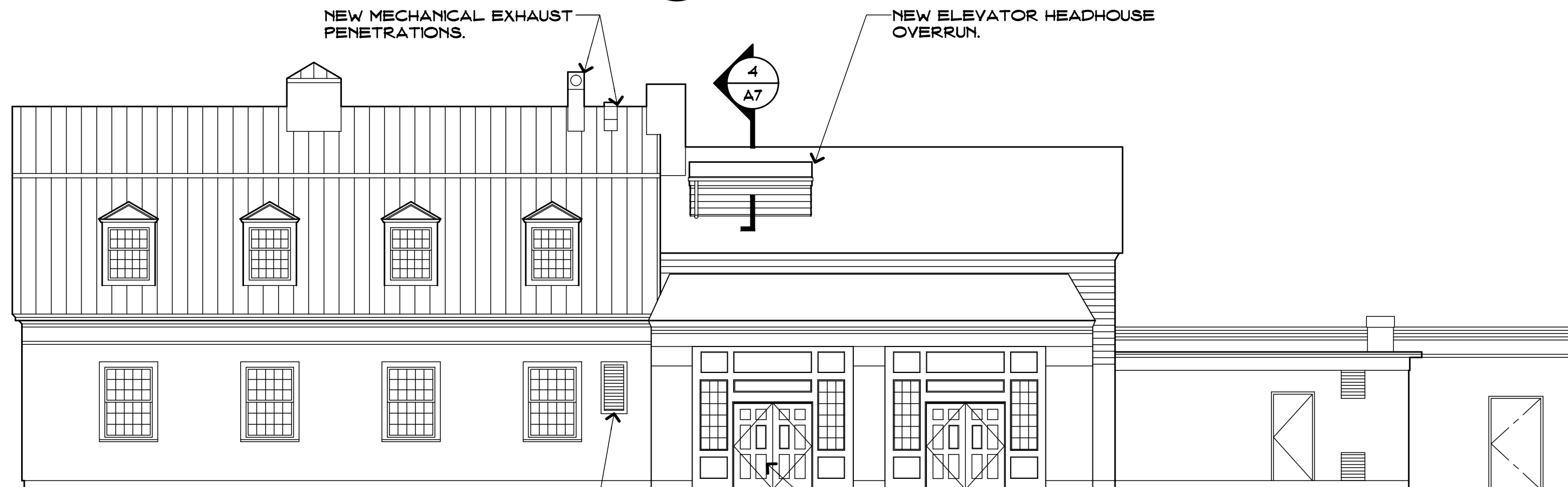
SYMBOL LEGEND

- EXISTING WALLS TO REMAIN.
- EXISTING TO BE REMOVED.
- NEW WALL TOOTHED INTO EXISTING ADJACENT WALL (SEE PARTITION TYPE)
- INDICATES CONSTRUCTION NOTE. - SEE NOTES BELOW
- INDICATES DOOR NUMBER.
- ELEVATION OR SECTION NUMBER. - DRAWING NUMBER.
- PLAN, SECTION, DETAIL OR ELEV. NUMBER.
- INDICATES DEMOLITION NOTE.
- INDICATES WINDOW TYPE.
- INDICATES WALL TYPE. (SEE DETAIL A/A27)
- NEW LIGHT FIXTURE (SEE ELECTRICAL DWGS)
- NEW 2'X2' METAL CEILING PLATE W/ NEW MECHANICAL CEILING GRILL. (SEE MECHANICAL DWGS FOR GRILL SIZES)
- DEMO EXISTING ACOUSTICAL CEILING TILE AND EXISTING LIGHT FIXTURES (SEE ELECTRICAL DWGS FOR MORE INFO)
- DEMO EXISTING GYPSUM CEILING AND EXISTING LIGHT FIXTURES (SEE ELECTRICAL DWGS FOR MORE INFO)
- DEMO EXISTING ACOUSTICAL CEILING TILES, HARD CEILING AND EXISTING LIGHT FIXTURES (WOOD FRAMING ABOVE HARD CEILING TO REMAIN) (SEE ELECTRICAL DWGS FOR MORE INFO)
- NEW 2'X2' ACOUSTICAL CEILING TILE (SEE ROOM FINISH SCHEDULE FOR TYPE) (SEE PROJ. MAN)
- NEW PAINTED GYPSUM WALL BOARD (SEE ROOM FINISH SCHEDULE) (SEE PROJ. MAN)
- AREA OF REFUGE (SEE ELECTRICAL DWGS) (SEE SIGNAGE PLANS)

WOMEN'S TOILET ROOM 3
SCALE: 1/4" = 1'-0"

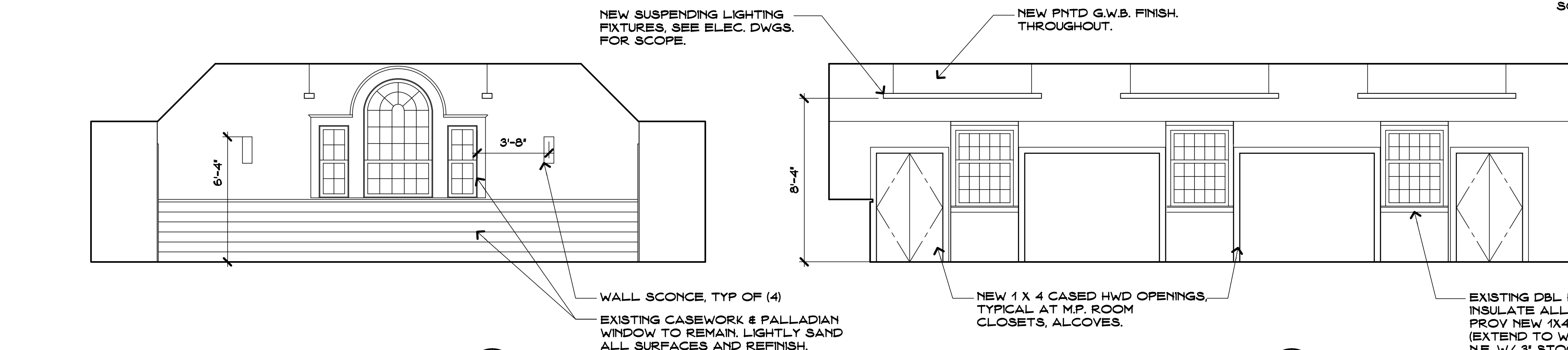
MEN'S TOILET ROOM 4
SCALE: 1/4" = 1'-0"

UNI-SEX TOILET ROOM 5
SCALE: 1/4" = 1'-0"



NORTH ELEVATION 5
SCALE: 1/8" = 1'-0"

MULTI-PURPOSE ROOM 6
SCALE: 1/4" = 1'-0"

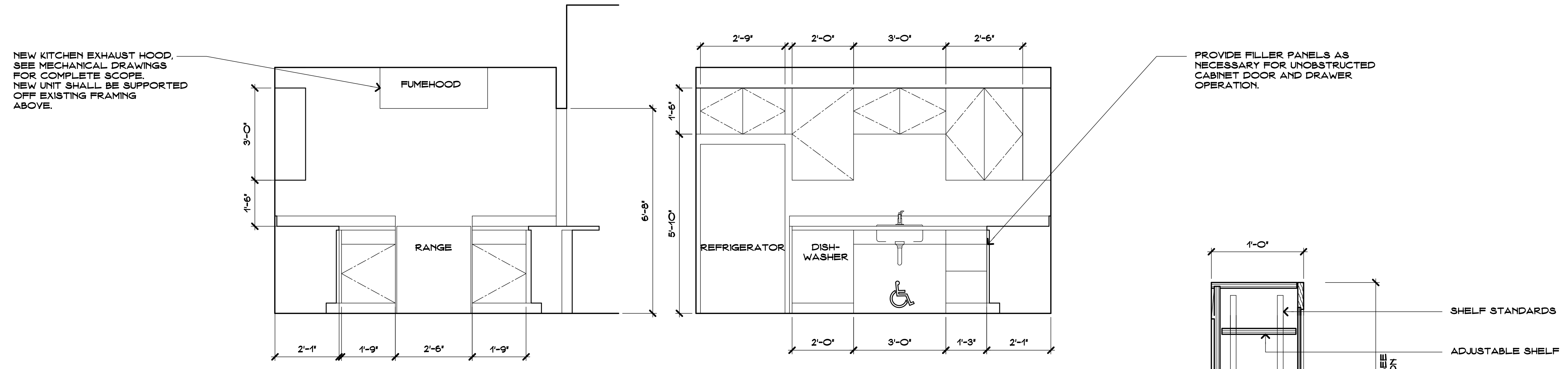


MULTI-PURPOSE ROOM 7
SCALE: 1/4" = 1'-0"

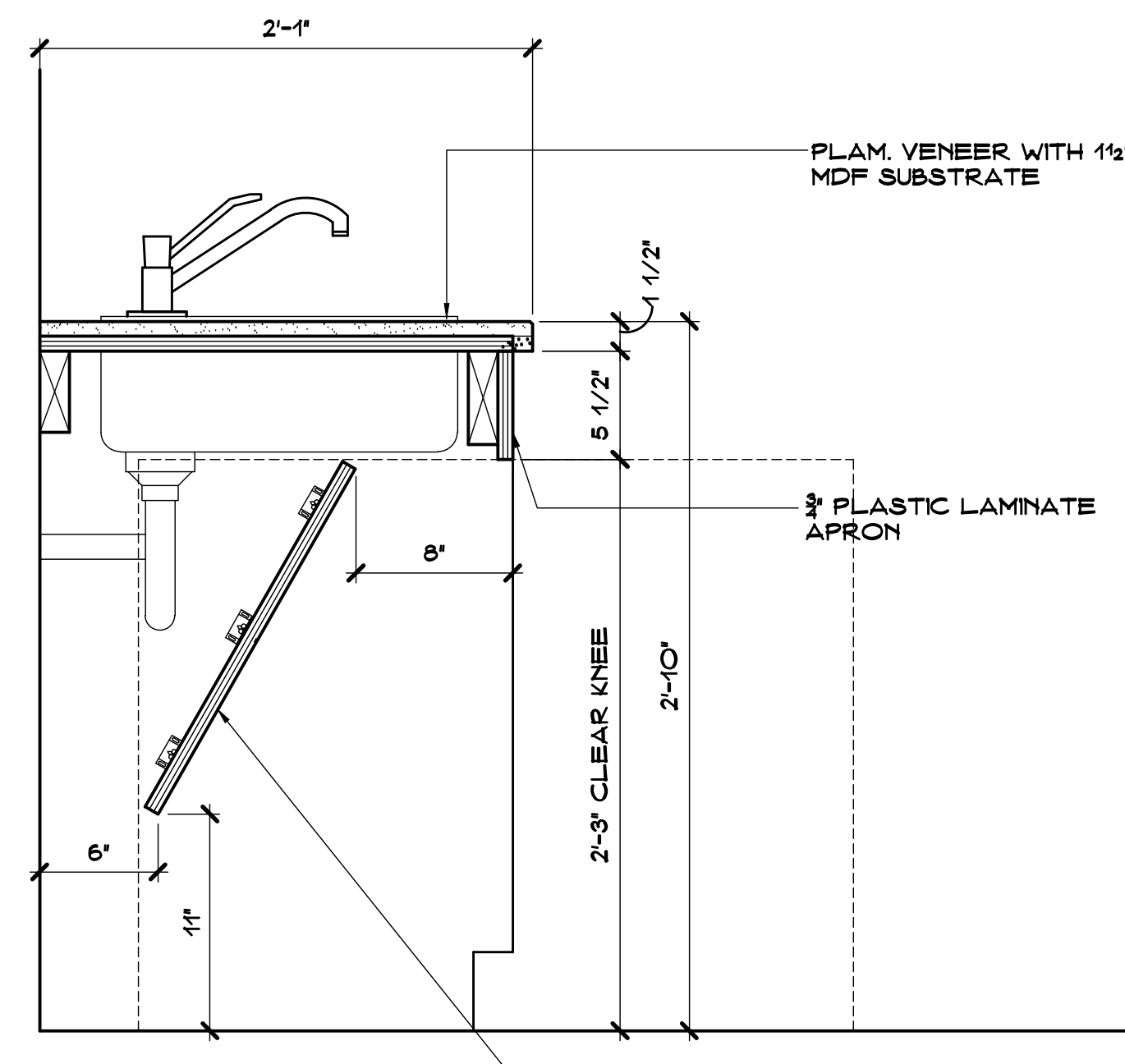
MULTI-PURPOSE ROOM 8
SCALE: 1/4" = 1'-0"



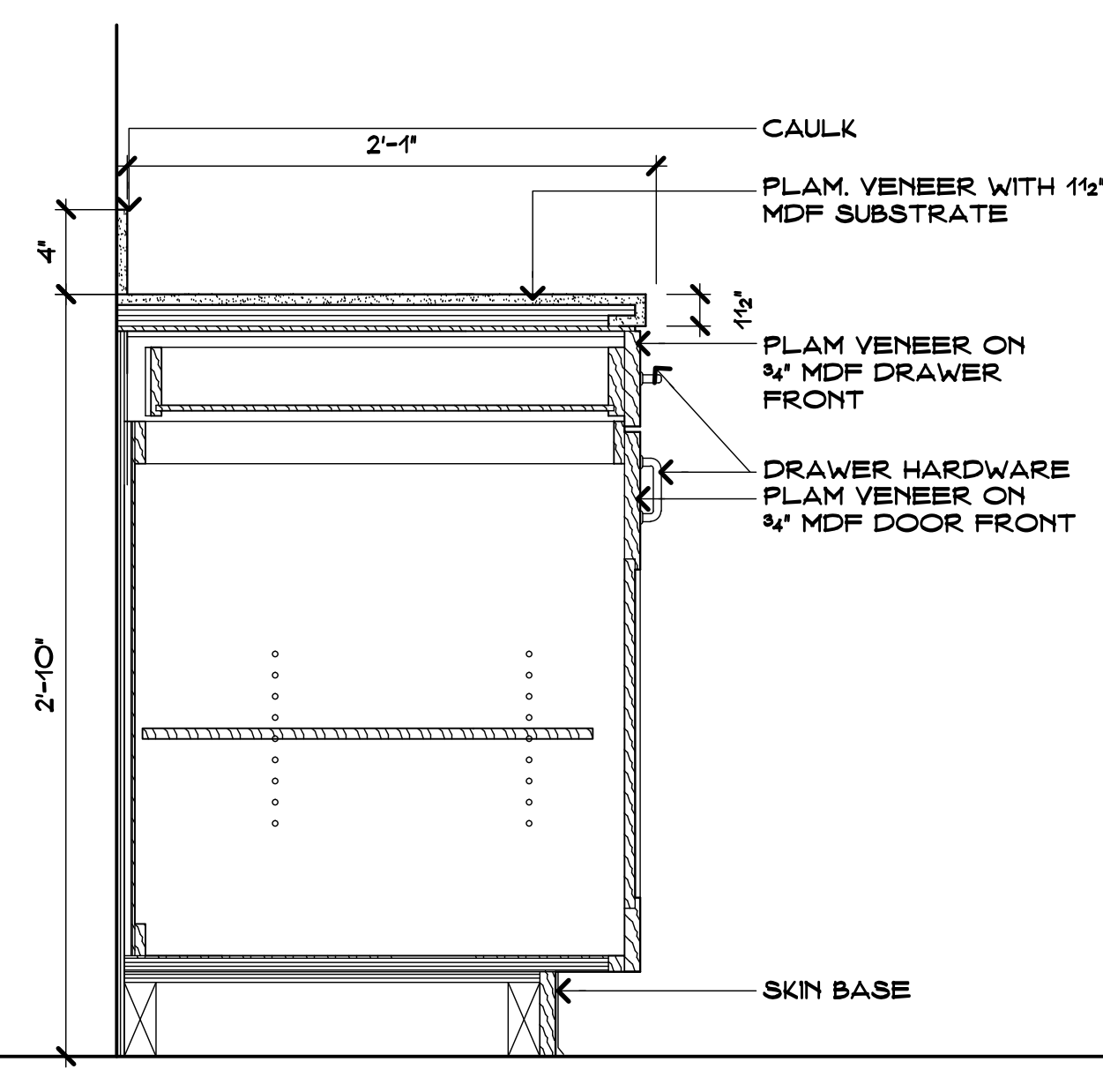
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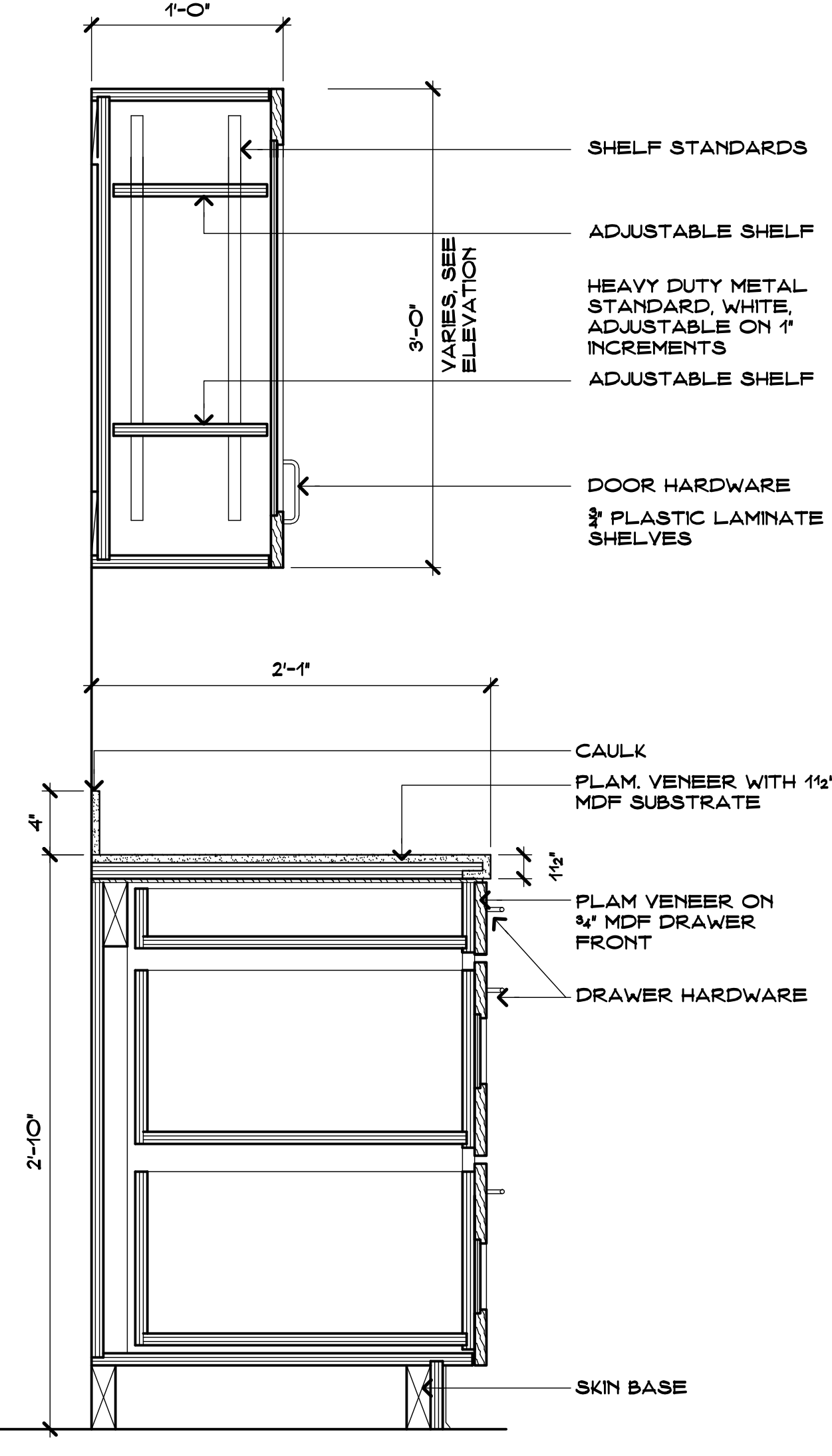
KITCHENETTE ELEVATIONS 1
SCALE: 1/2" = 1'-0"



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



BASE CABINET DETAIL 3
SCALE: 1 1/2" = 1'-0"



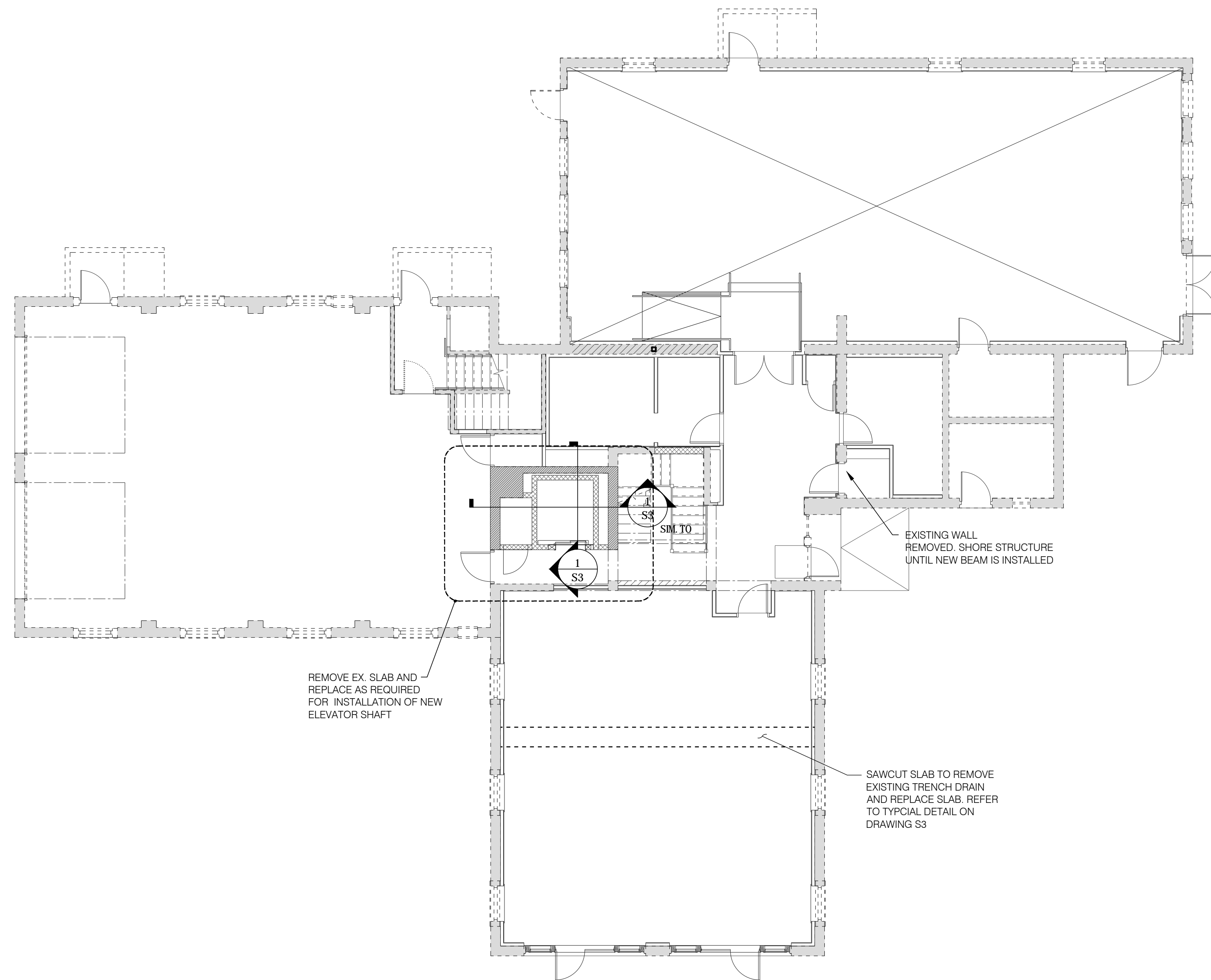
BASE & UPPER CABINET DETAILS 4
SCALE: 1 1/2" = 1'-0"

RCP SYMBOL LEGEND

- [Grid Symbol] - TYPE 1 2X2' ACOUSTICAL CEILING TILE WITH SUPPORT SYSTEM SEE DETAIL A/A8
- [P.G.B. Symbol] - PAINTED GYPSUM BOARD (P.G.B.)
- [Square with X] - SUPPLY GRILLE SEE MECHANICAL DWGS.
- [Square with diagonal line] - RETURN GRILLE SEE MECHANICAL DWGS.
- [Circle with dot] - RECESSED DOWNLIGHT FIXT. SEE ELEC. DWGS.
- [Square with diagonal line] - 2 X 2' FLUORESCENT RECESSED FIXTURE SEE ELEC. DWGS.
- [Line with arrow] - 1 X 4' FLUORESCENT STRIP LIGHT FIXTURE SEE ELEC. DWGS.
- [Line with arrow] - 4' X 4' FLUORESCENT STRIP LIGHT FIXTURE SEE ELEC. DWGS.
- [Square with vertical line] - WALL SCONCE
- [XXX] - CEILING HEIGHT
- [Square with X] - ACCESS PANEL (REF. MECH. DWGS)

SYMBOL LEGEND

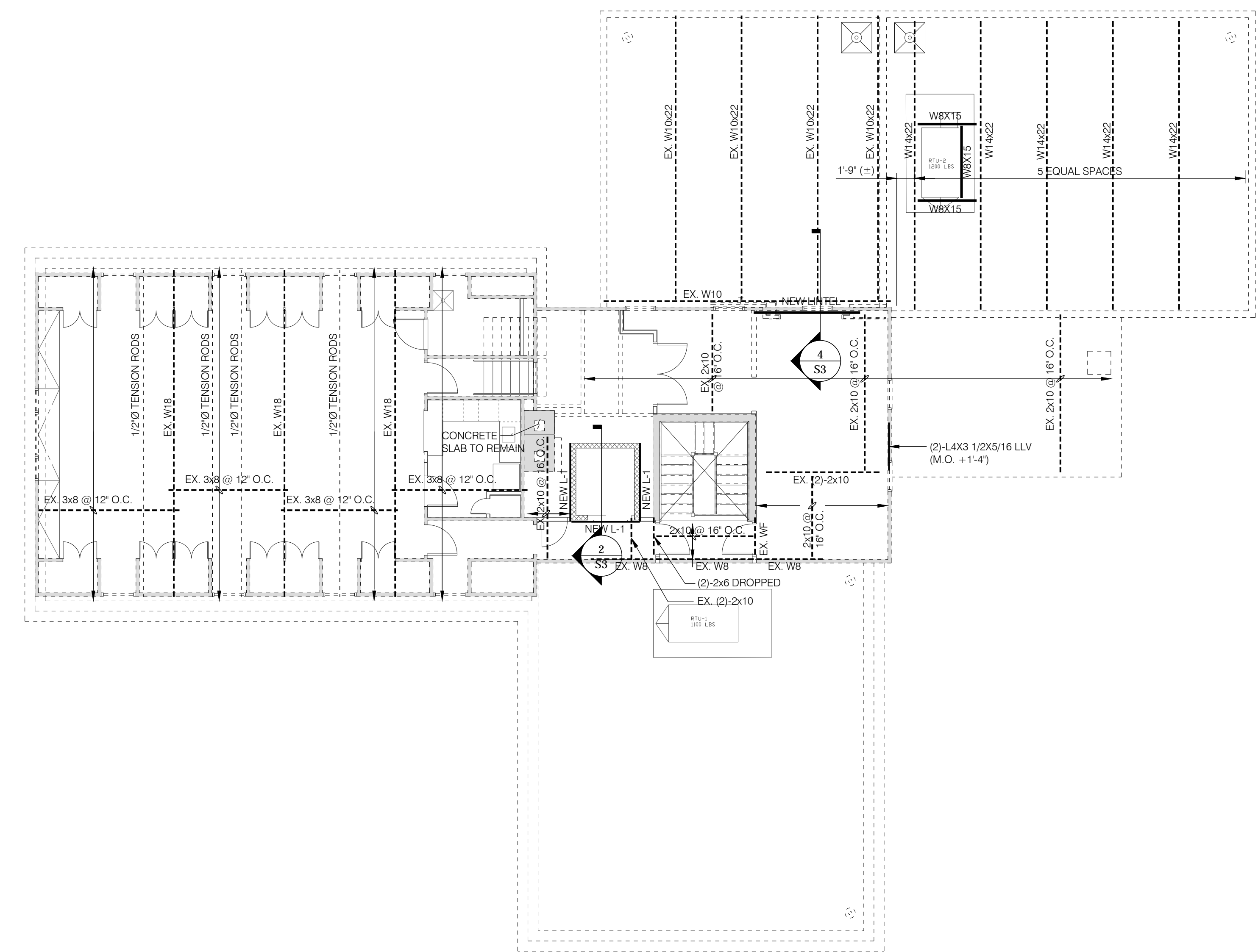
- [Solid line] - EXISTING WALLS TO REMAIN.
- [Dashed line] - EXISTING TO BE REMOVED.
- [Dotted line] - NEW WALL TOOTHED INTO EXISTING ADJACENT WALL (SEE PARTITION TYPE)
- [X in circle] - INDICATES CONSTRUCTION NOTE. - SEE NOTES BELOW
- [XXX in circle] - INDICATES DOOR NUMBER.
- [X in circle with diagonal line] - ELEVATION OR SECTION NUMBER. - DRAWING NUMBER.
- [X in circle with horizontal line] - PLAN, SECTION, DETAIL OR ELEV. NUMBER.
- [X in circle with vertical line] - INDICATES DEMOLITION NOTE.
- [X in square] - INDICATES WINDOW TYPE.
- [X in diamond] - INDICATES WALL TYPE. (SEE DETAIL A/A27)
- [Square with diagonal line] - NEW LIGHT FIXTURE (SEE ELECTRICAL DWGS)
- [Square with diagonal line] - NEW 2X2 METAL CEILING PLATE W/ NEW MECHANICAL CEILING GRILL. (SEE MECHANICAL DWGS FOR GRILL SIZES)
- [Square with diagonal line] - DEMO EXISTING ACOUSTICAL CEILING TILE AND EXISTING LIGHT FIXTURES (SEE ELECTRICAL DWGS FOR MORE INFO)
- [Square with diagonal line] - DEMO EXISTING GYPSUM CEILING AND EXISTING LIGHT FIXTURES (SEE ELECTRICAL DWGS FOR MORE INFO)
- [Square with diagonal line] - DEMO EXISTING ACOUSTICAL CEILING TILES, HARD CEILING AND EXISTING LIGHT FIXTURES (WOOD FRAMING ABOVE HARD CEILING TO REMAIN) (SEE ELECTRICAL DWGS FOR MORE INFO)
- [Grid Symbol] - NEW 2X2 ACOUSTICAL CEILING TILE (SEE ROOM FINISH SCHEDULE FOR TYPE) (SEE PROJ. MAN)
- [Grid Symbol] - NEW PAINTED GYPSUM WALL BOARD (SEE ROOM FINISH SCHEDULE) (SEE PROJ. MAN)
- [Square with X] - AREA OF REFUGE (SEE ELECTRICAL DWGS) (SEE SIGNAGE PLANS)



FIRST FLOOR AND FOUNDATION PLAN

- SCALE: 1/8" = 1'-0"
- EXISTING FINISH FLOOR EL. 0'-0" UNLESS OTHERWISE NOTED.
 - SLAB CONSTRUCTION: 5" CONCRETE SLAB, REINFORCED WITH 6X6-W2 9XW2.9 W.W.F. (CHAIR), OVER A 10 MIL. VAPOR RETARDER ON A 12" LAYER OF COMPACTED FREE DRAINING STRUCTURAL FILL ON COMPACTED SUBGRADE.

1
S1



SECOND FLOOR FRAMING PLAN

- SCALE: 1/8" = 1'-0"
- FIELD VERIFY ALL EXISTING FRAMING.
 - "L" INDICATES NEW 1.34X9 1/2" LVL LEDGER.

2
S1

Project Title:
Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525



SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucci.com

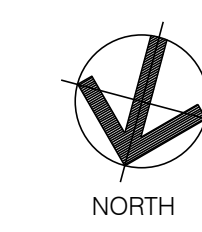
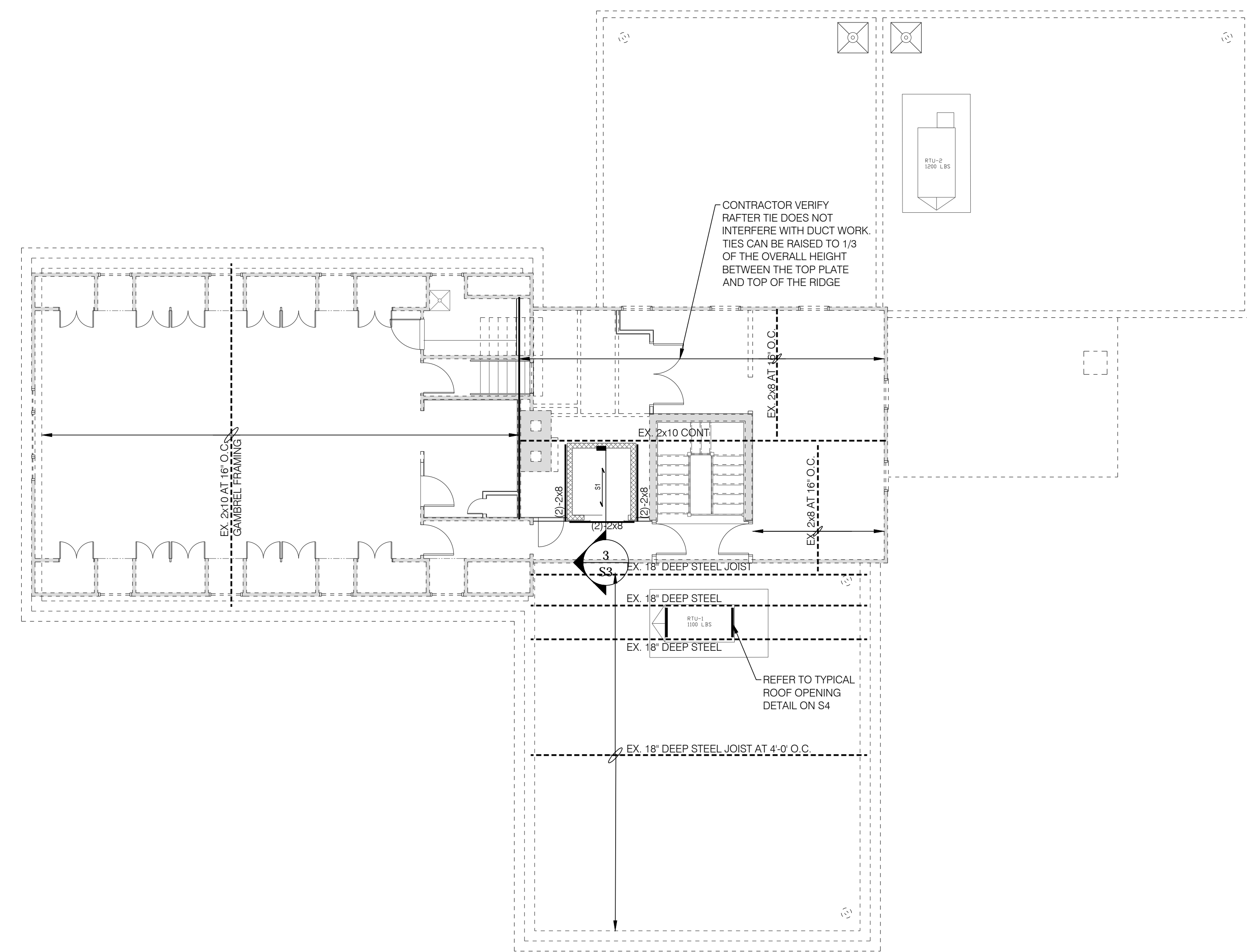
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MHAI
Michael Horton
Associates Inc.
Consulting Structural Engineers
151 Meadow Street
Branford, Connecticut 06405
203-481-8600 mha-eng.com

Drawing Title:
FOUNDATION & FLOOR FRAMING PLANS

Date:
5.18.16
Scale:
AS NOTED
Drawn By:
AC
Project Number:
11.147

Drawing Number:
S1



NORTH

ROOF FRAMING PLAN

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

1
S2

1. ELEVATOR SLAB 8" NORMAL WEIGHT CONCRETE ON 2"-20GA LOK GALV. COMPOSITE FLOOR DECK (8" TOTAL THICKNESS) REINFORCED WITH #16-W2.9KW2.9 WELDED WIRE FABRIC (CHAIR).
2. TOP OF SLAB ELEVATION: REFER TO ARCH'L DRAWINGS
3. PROVIDE TEMPORARY SHORING AS REQUIRED TO INSTAL NEW STRUCTURAL MEMBERS.

Project Title:
Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525



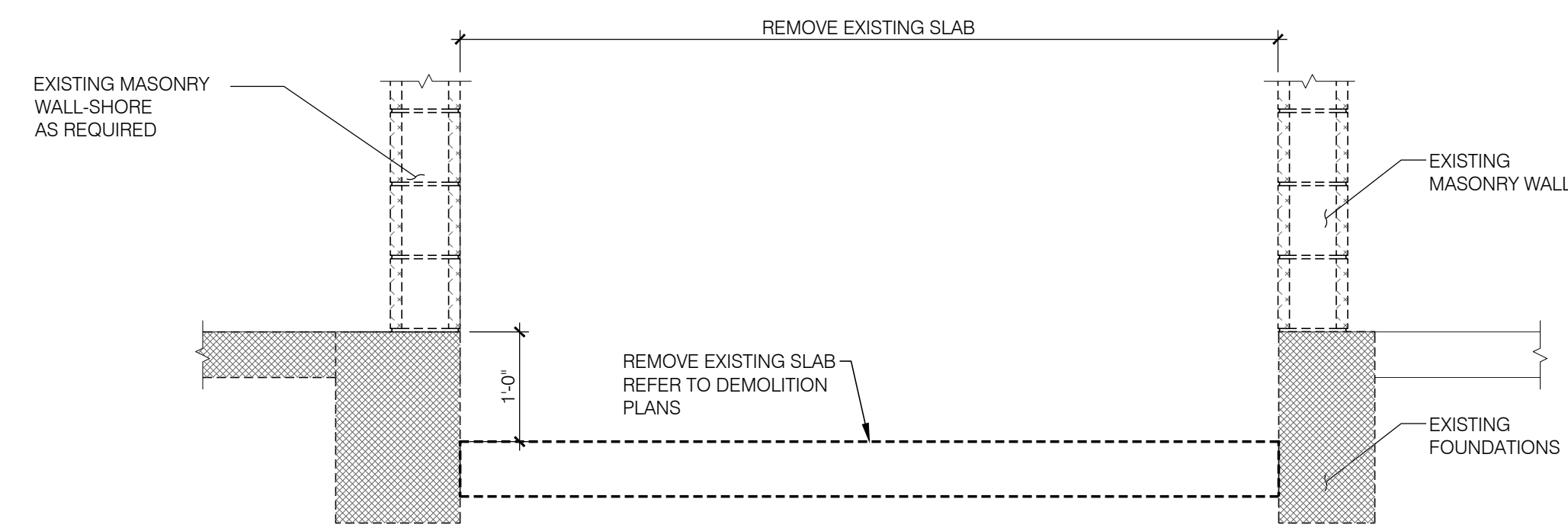
SILVER / PETRUCCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

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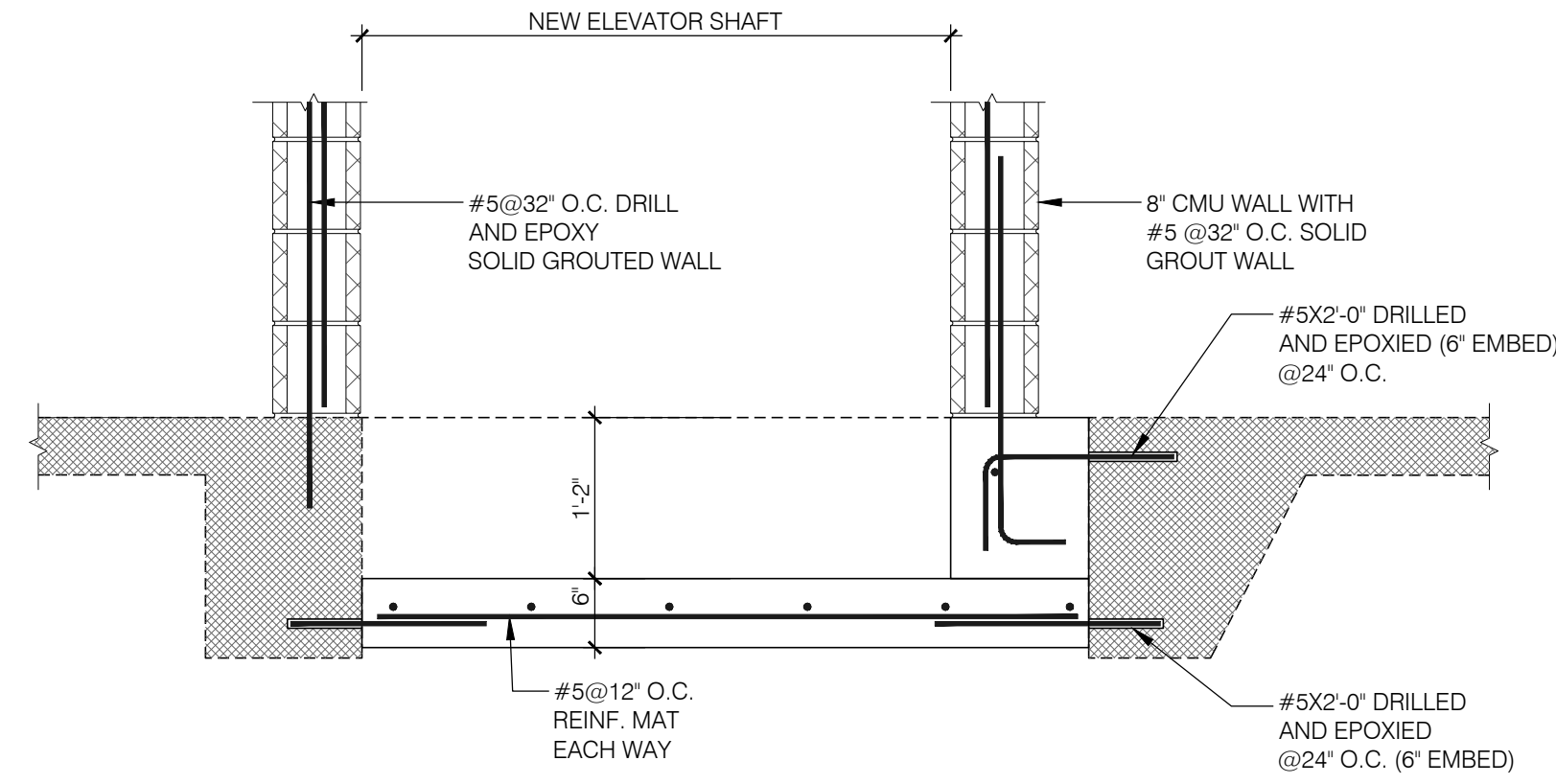
MHAI
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203-481-8600 mha-eng.com

Drawing Title:
ROOF FRAMING PLAN

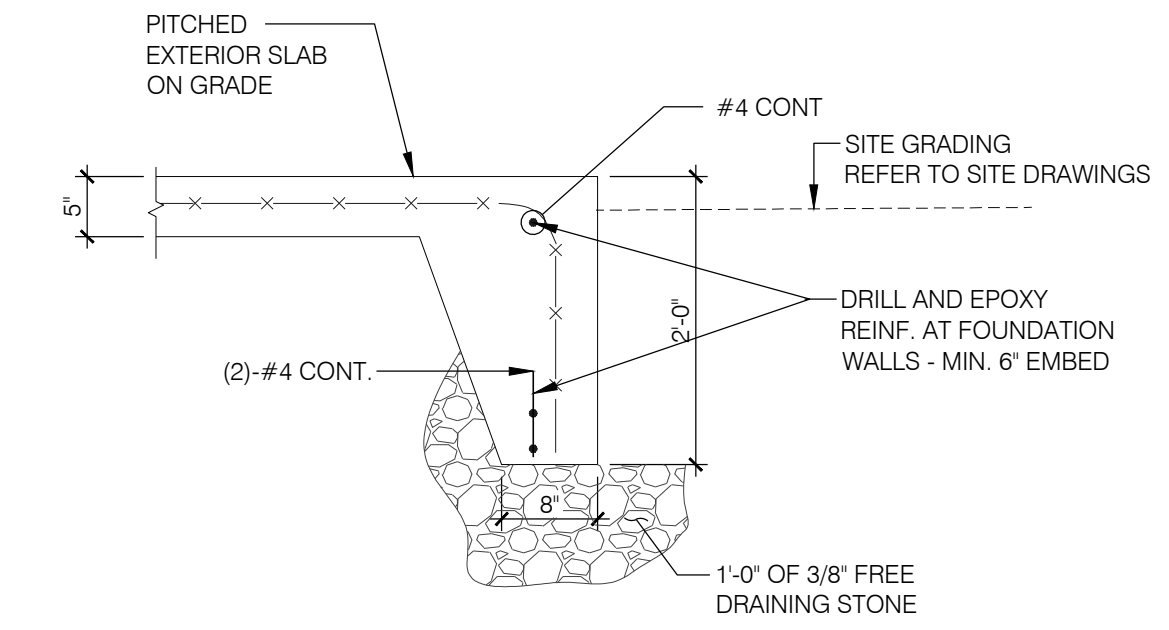
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5.18.16
Scale:
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Drawn By:
AC
Project Number:
11.147
Drawing Number:
S2



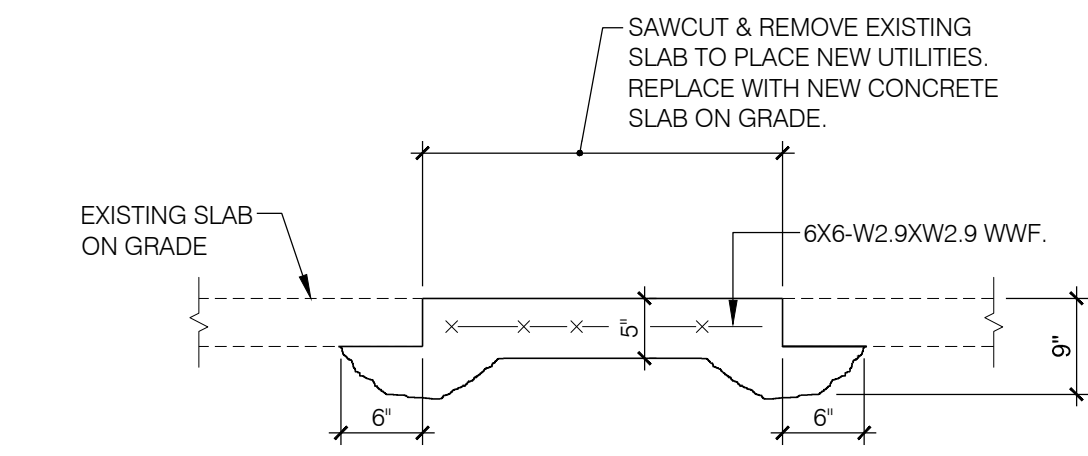
EXISTING CONDITION



NEW CONDITION



TYPICAL HAUNCHED SLAB DETAIL

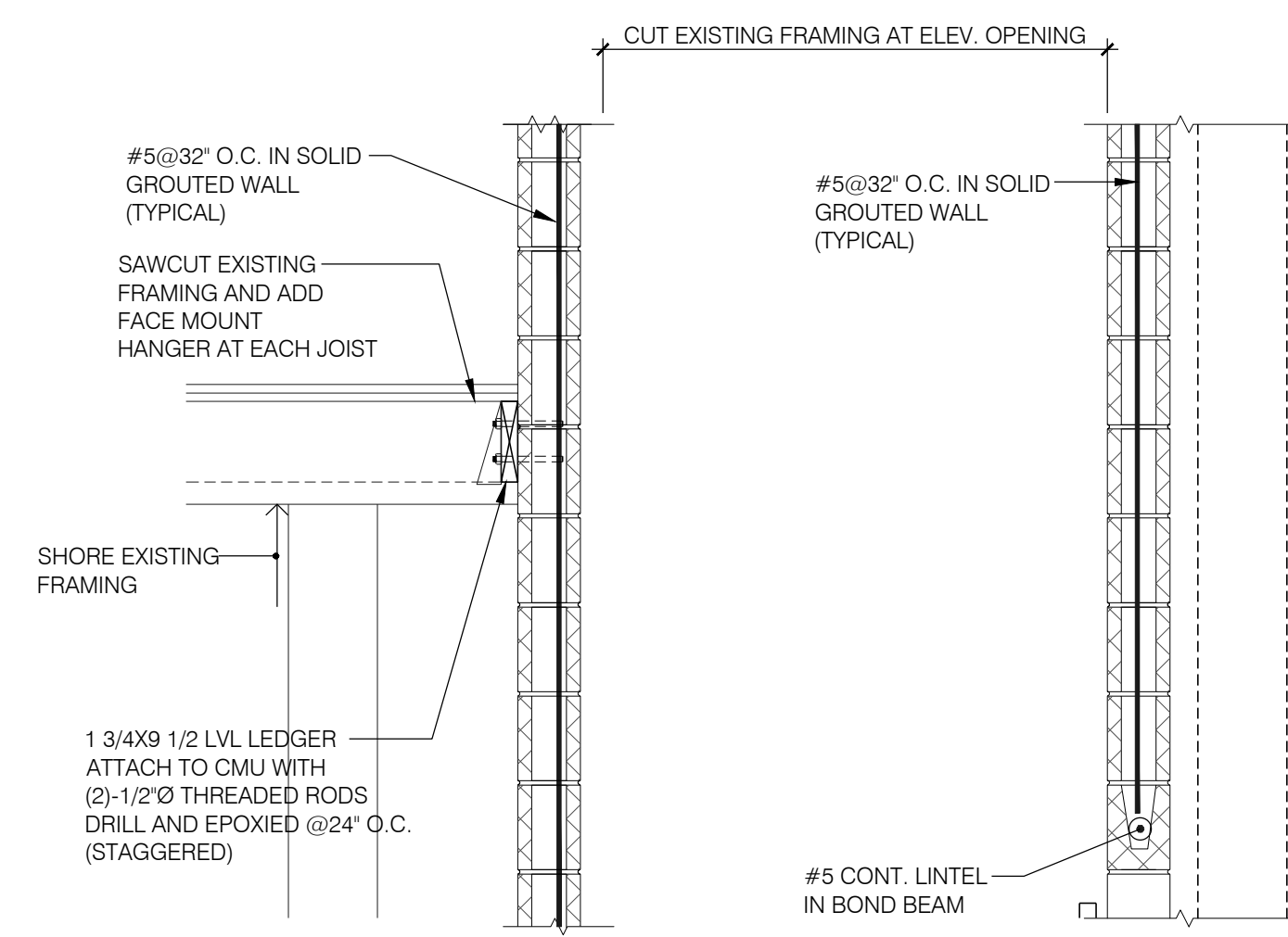


TYPICAL DETAIL FOR TRENCH DRAIN INFILL

SECTION

Scale: 3/4"=1'-0"

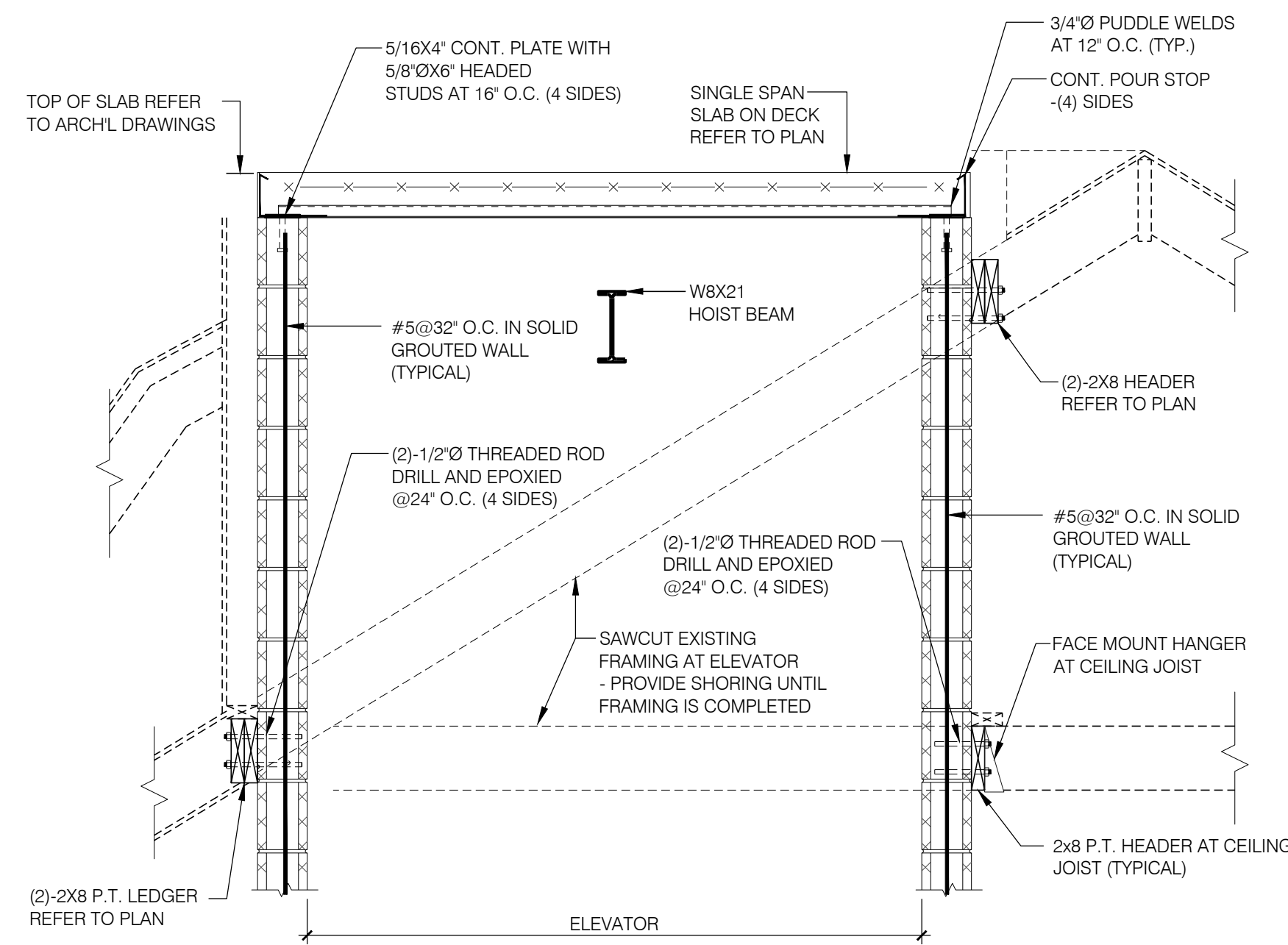
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SECTION

Scale: 3/4"=1'-0"

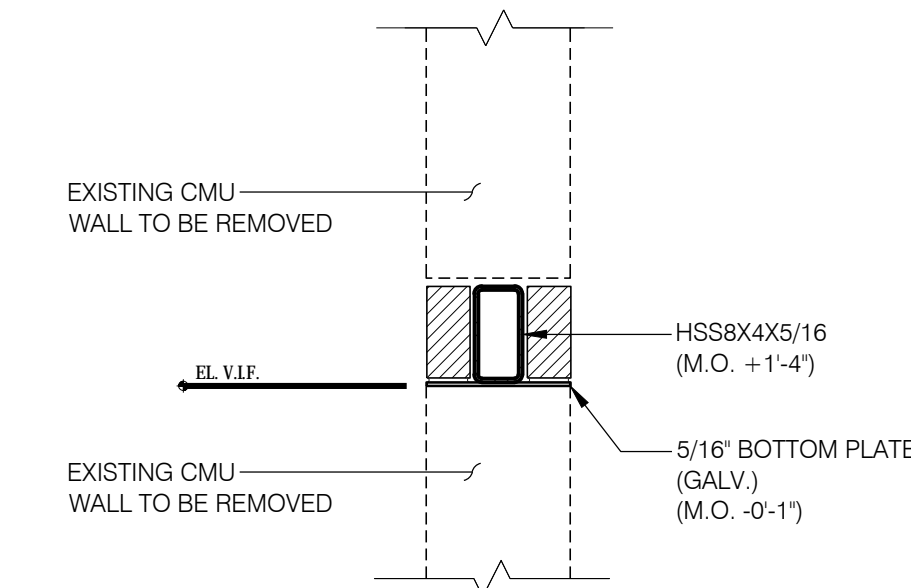
2



SECTION

Scale: 3/4"=1'-0"

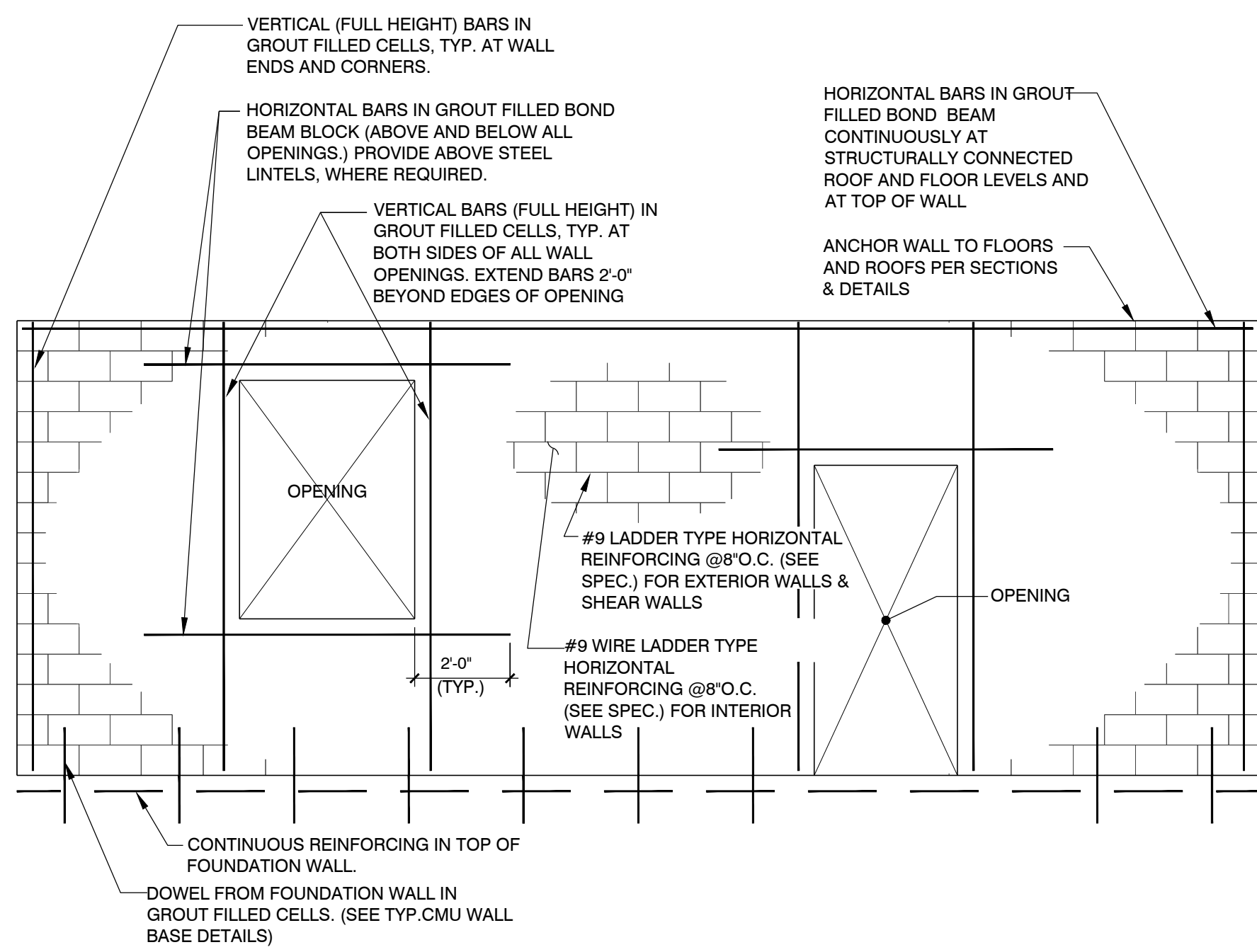
3



SECTION

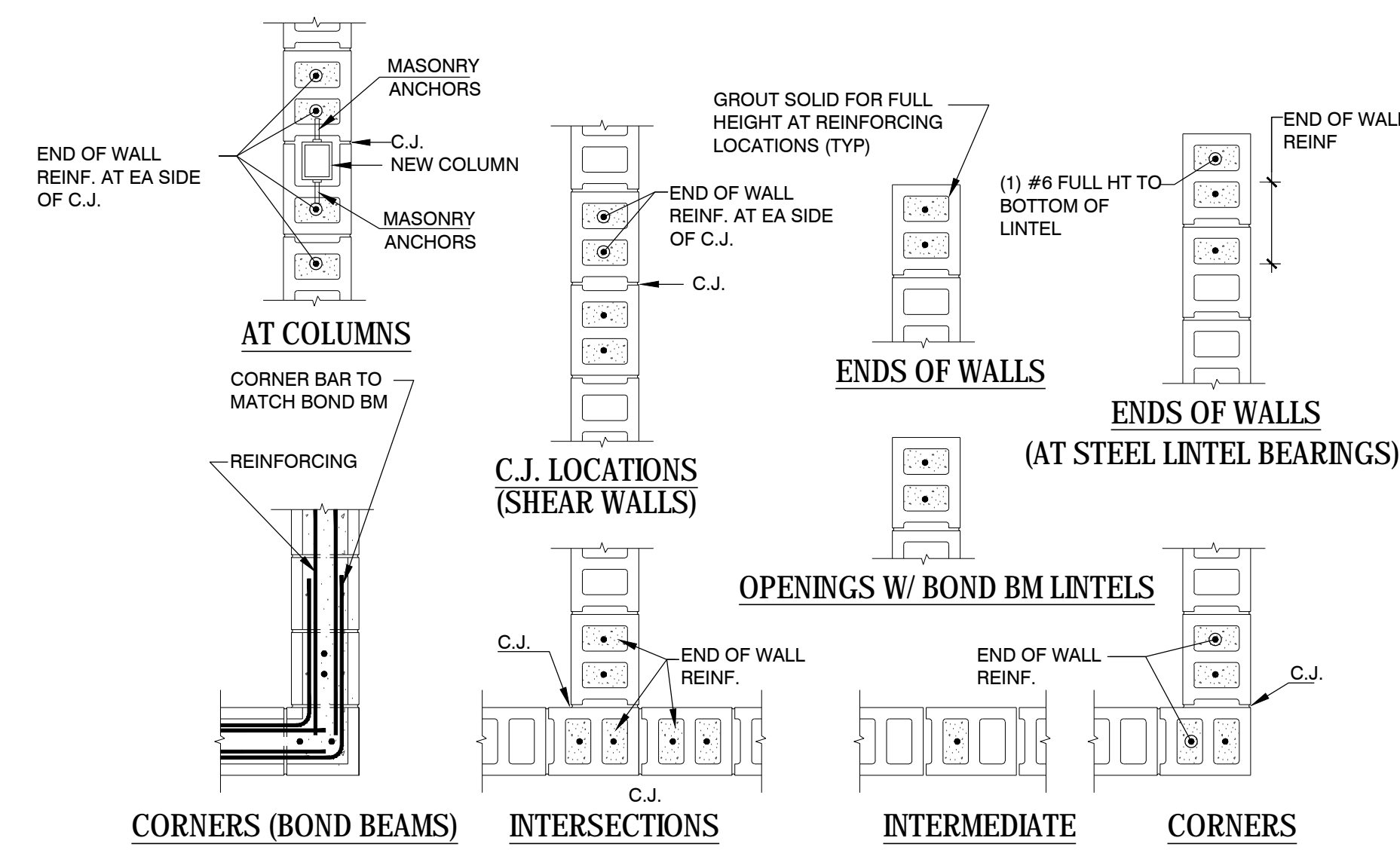
Scale: 3/4"=1'-0"

4



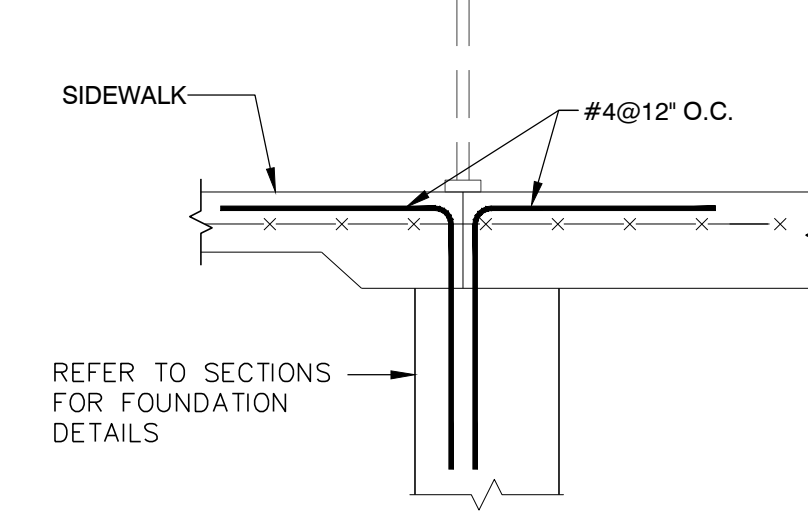
TYPICAL CMU WALL REINFORCEMENT DETAIL

NOTE: REFER TO CONCRETE MASONRY GENERAL NOTES ON DRAWING FOR WALL REINFORCING REQUIREMENTS.

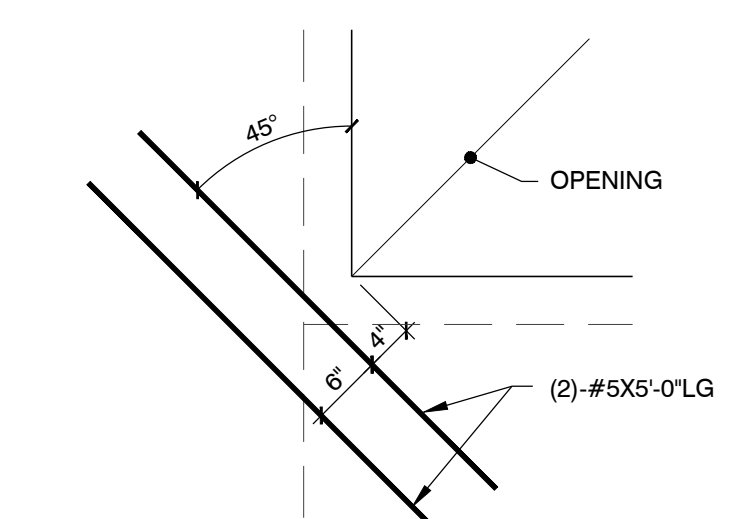


TYPICAL CMU REINFORCING PLAN DETAILS

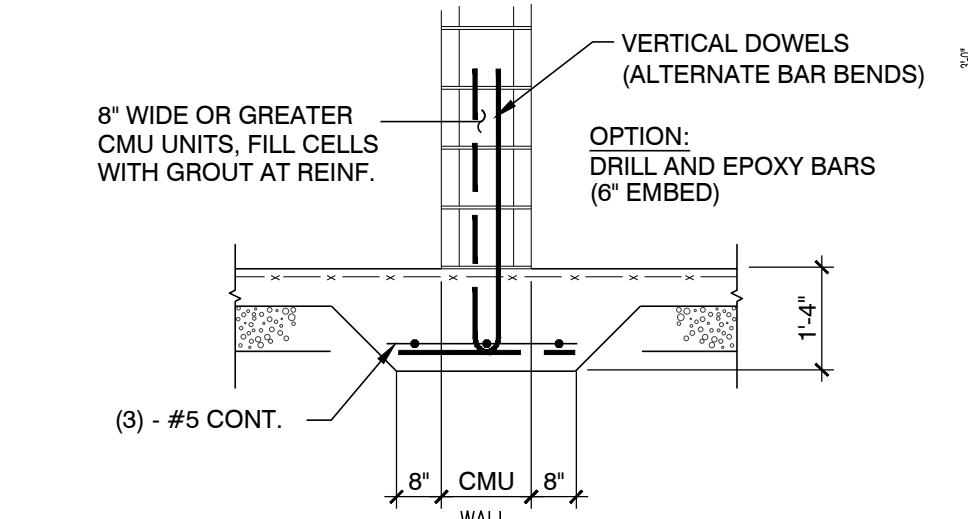
NOTES:
1. REINFORCING DETAILS APPLY TO ALL CMU WALLS. FOR ACTUAL REINFORCING REQUIREMENTS, REFER TO GENERAL NOTES ON DRAWINGS.
2. PROVIDE DOWELS FROM CONCRETE FOUNDATIONS TO CMU WALL ABOVE. SIZE AND NUMBER TO MATCH WALL REINFORCING.



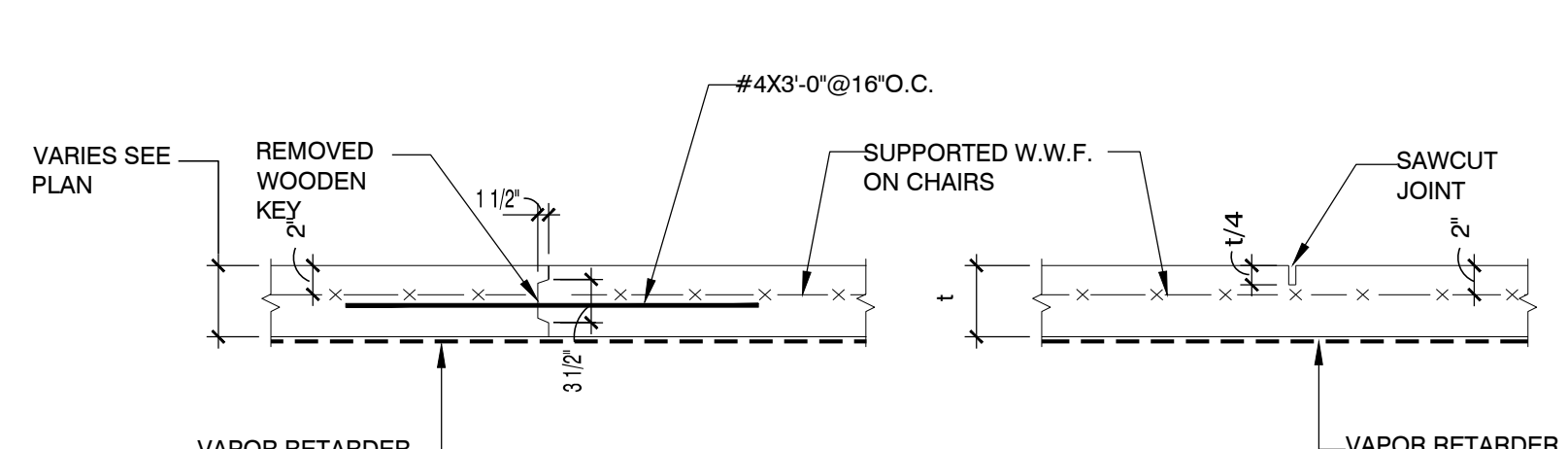
TYPICAL FOUNDATION AT DOORS



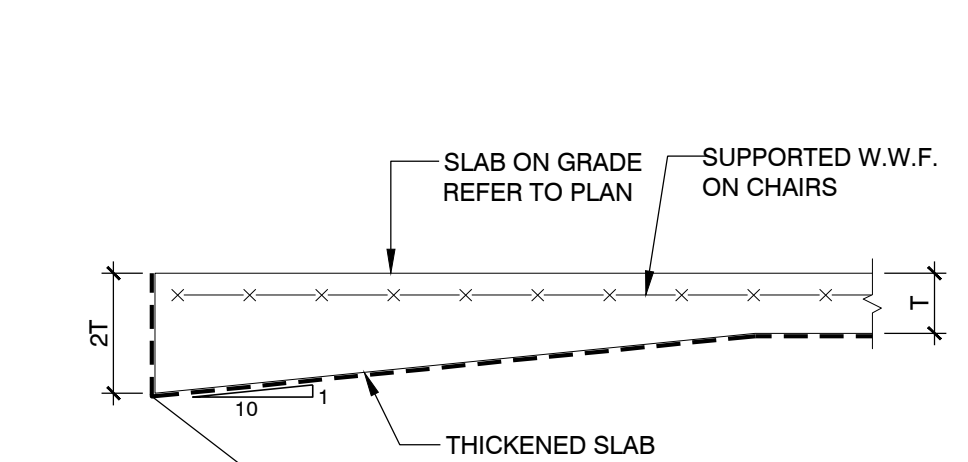
TYPICAL AT REENTRANT SLAB CORNERS



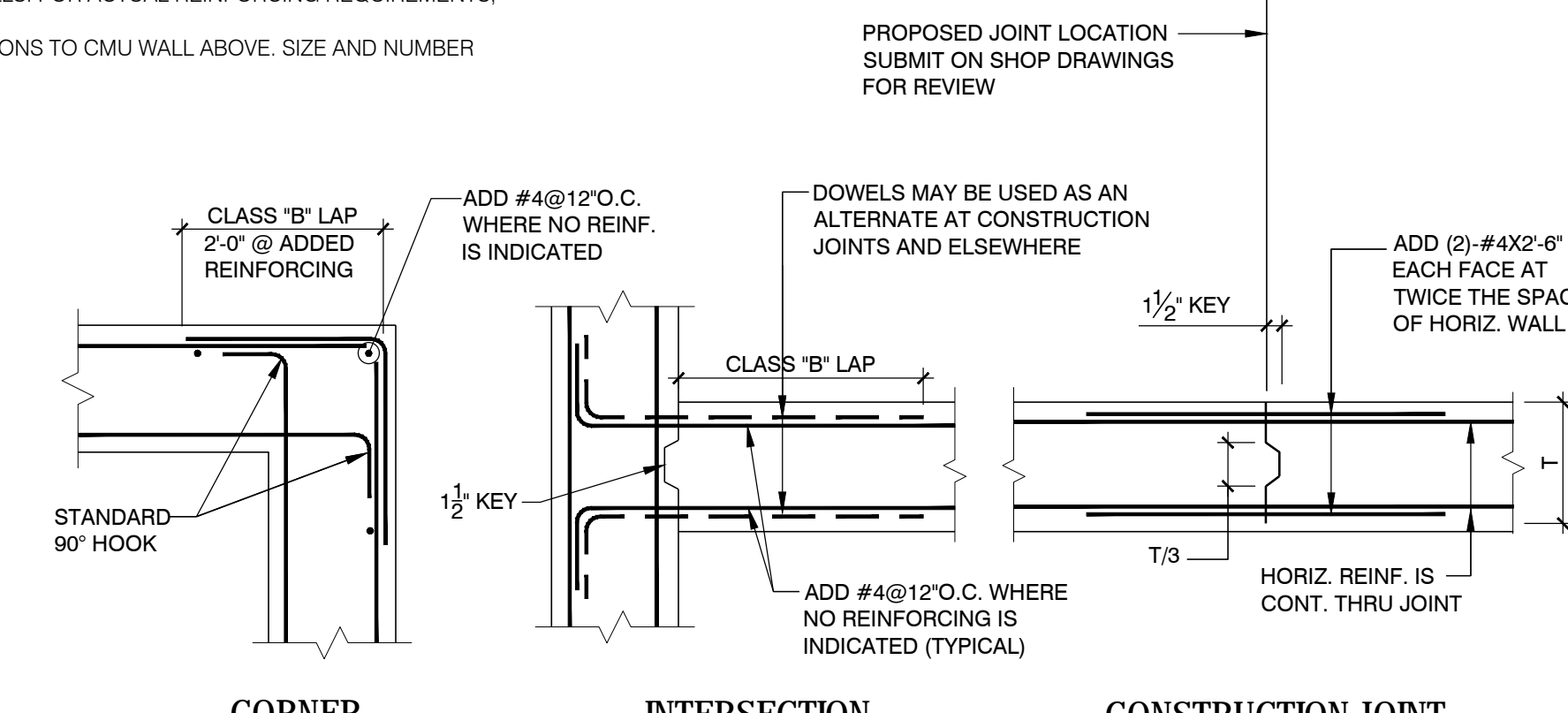
TYPICAL THICKENED SLAB DETAIL
(NOTED T.S. ON PLAN.)



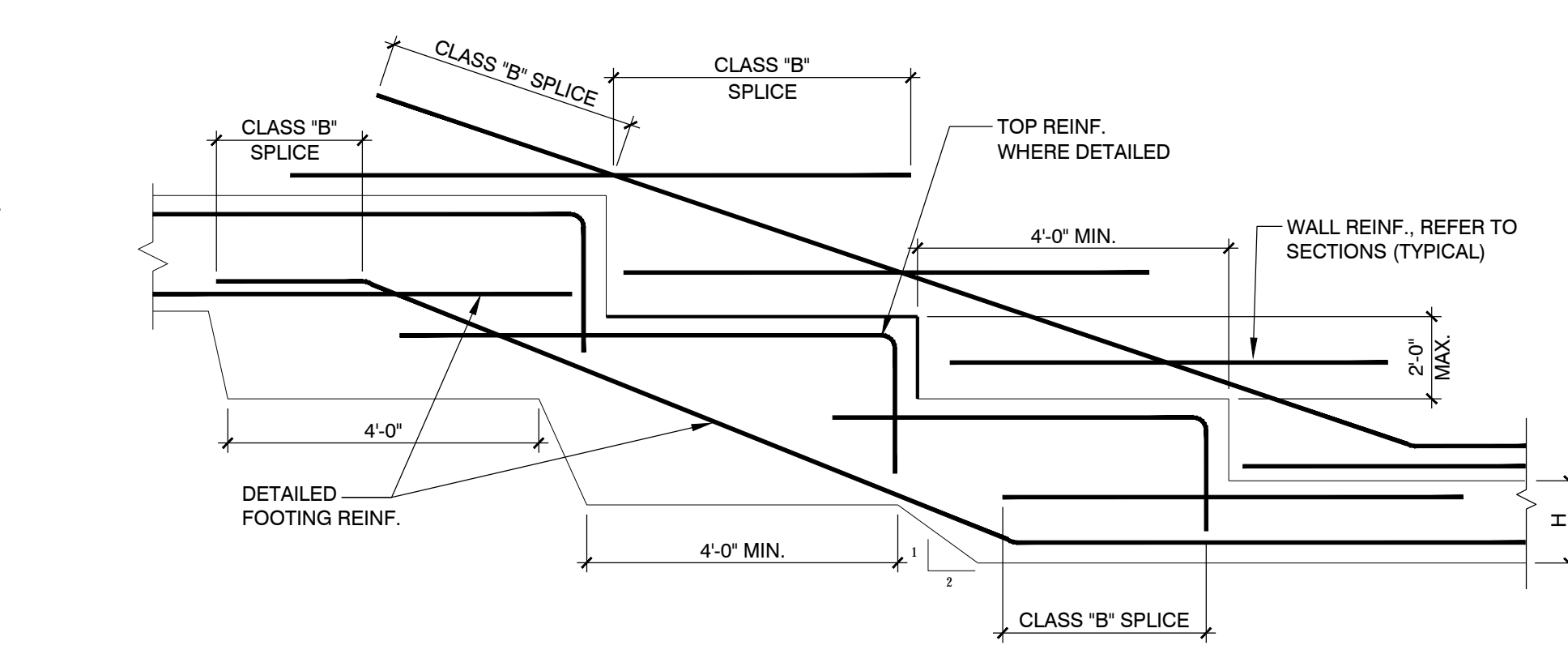
CONSTRUCTION JOINT
(NOTED 'C.J.' ON PLAN)



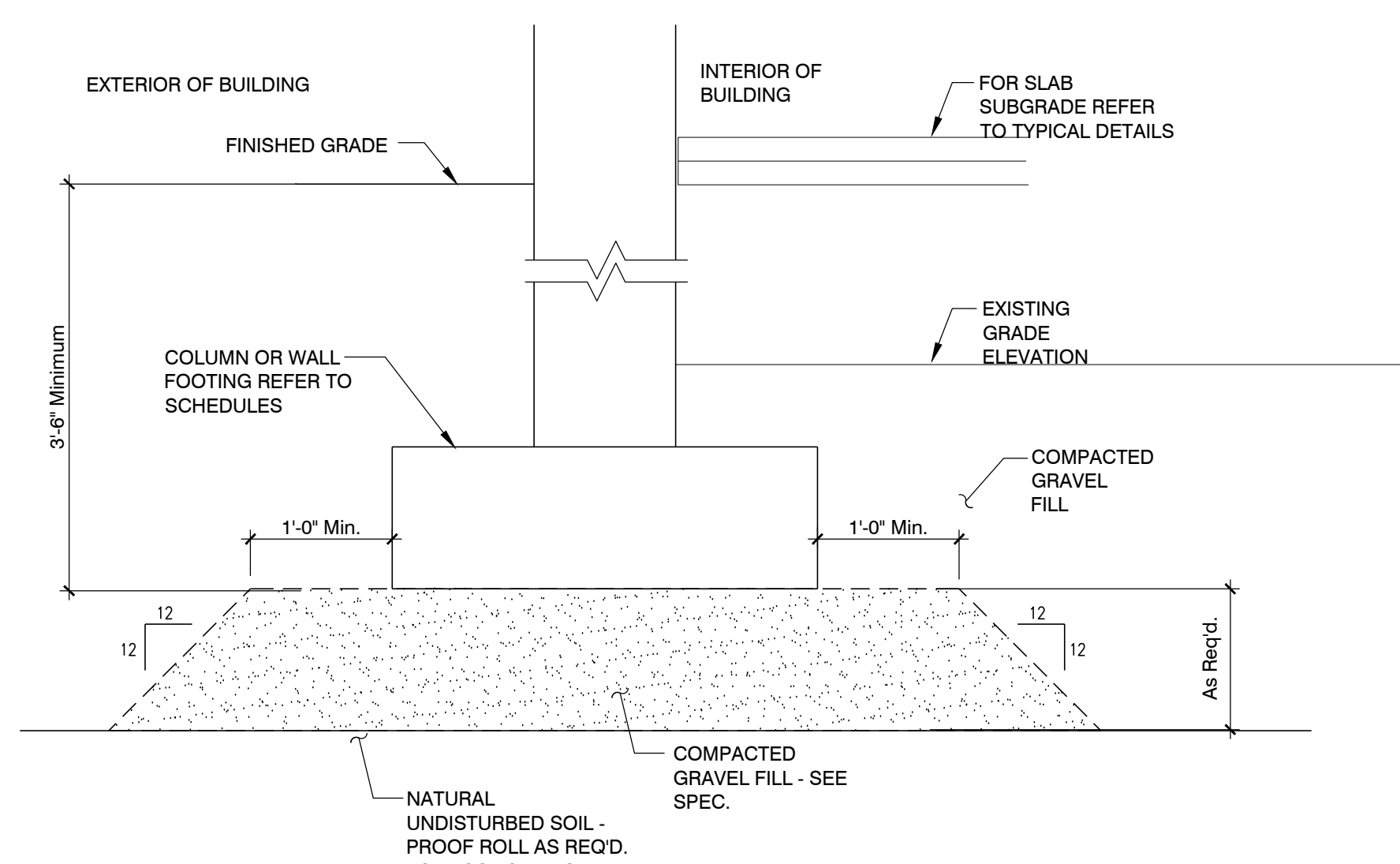
SAWCUT SLAB JOINT
(NOTED 'S.J.' ON PLAN)



TYPICAL WALL REINFORCING DETAILS

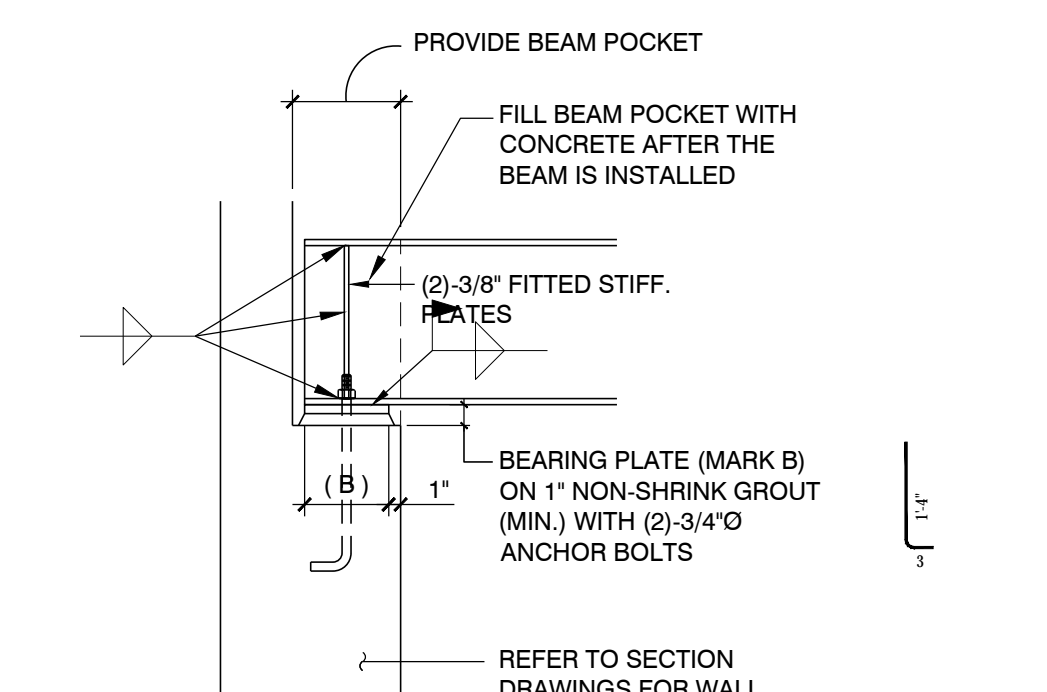


TYPICAL STEPPED FOOTING DETAIL



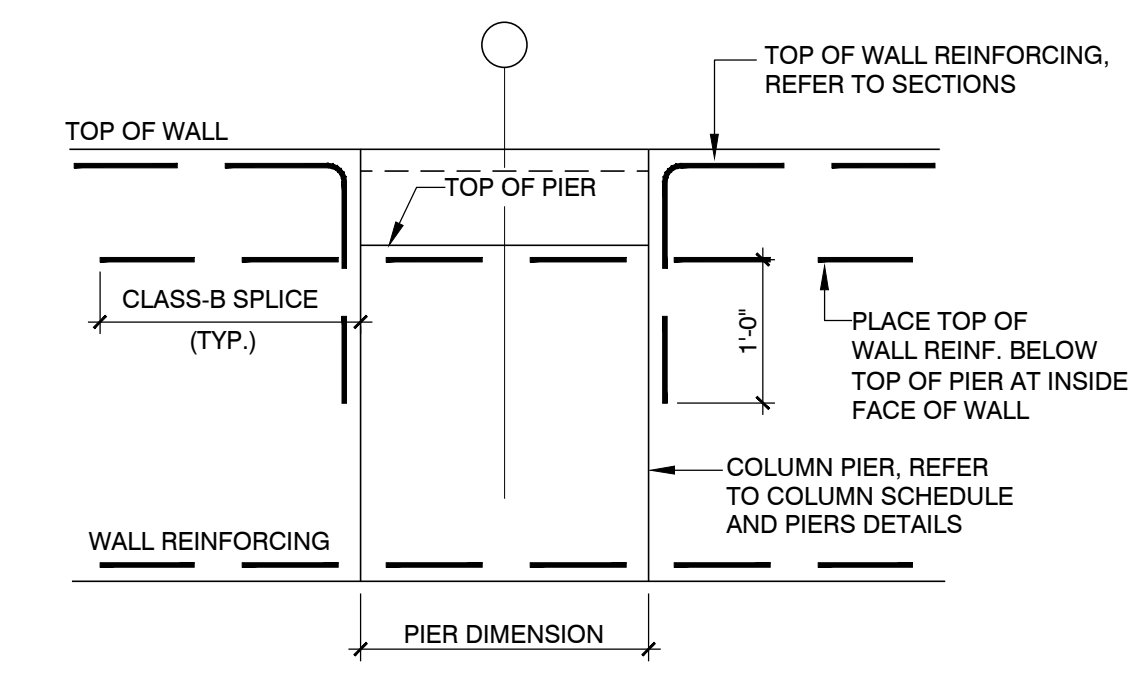
TYPICAL FOOTING DETAIL ON COMPACTED GRAVEL FILL

Not to scale



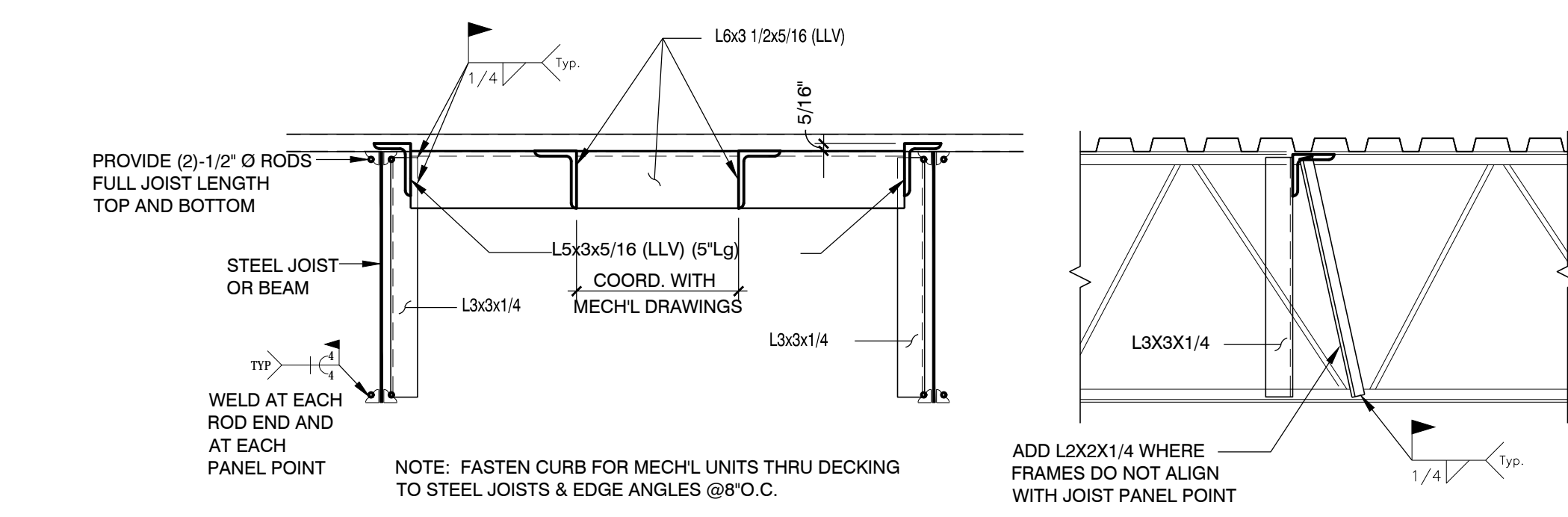
TYPICAL BEAM BEARING PLATE DETAIL

Scale: 3/4"=1'-0"



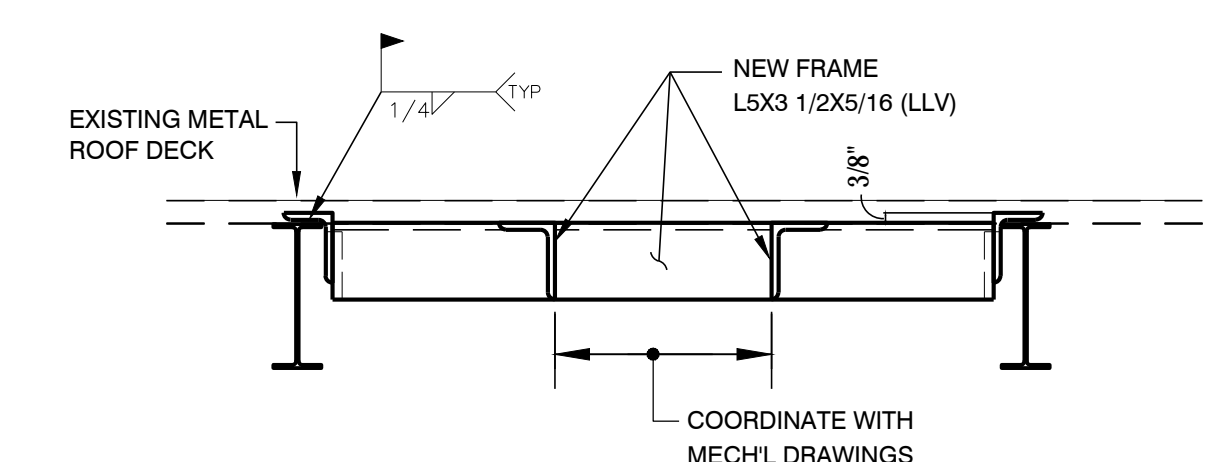
TYPICAL DETAIL OF WALL REINFORCING AT COLUMN PIERS

NOTE: REFER TO SECTIONS FOR REINFORCING.



TYPICAL ROOF OPENING DETAIL WITH JOISTS & TYPICAL JOIST REINF. DETAIL-SIMILAR AT WF BEAMS

1. TYPICAL FOR ALL OPENINGS 4'-0"X4'-0" OR LESS. FOR LARGER OPENINGS SEE SPECIFIC DETAILS.
2. SIMILAR FRAMES FOR ROOF DRAIN OPENINGS.
3. FRAMES TO BE SHOP-WELDED ASSEMBLY.
4. FOR LOCATION, SIZE AND QUANTITY REQUIRED SEE ARCHL. AND MECHL. DRAWINGS.
5. FOR FRAMES ON JOISTS, PROVIDE JOIST REINFORCING AT BEARING LOCATIONS.



TYPICAL ROOF FRAME OPENING DETAIL

SCALE: 3/4"=1'-0"
1. TYPICAL FOR ALL OPENINGS 4'-0"X4'-0" OR LESS. FOR LARGER OPENINGS SEE SPECIFIC DETAILS.
2. SIMILAR FRAMES FOR ROOF DRAIN OPENINGS.
3. FRAMES TO BE SHOP-WELDED ASSEMBLY.
4. FOR LOCATION, SIZE AND QUANTITY REQUIRED SEE ARCHL. AND MECHL. DRAWINGS.

GENERAL NOTES

GENERAL

GOVERNING CODE: 2016 CONNECTICUT STATE BUILDING CODE, (2012 INTERNATIONAL BUILDING CODE).

DESIGN LOADS: TOWN OF WOODBRIDGE

ROOF LOAD:

ROOF SNOW LOAD CRITERIA: Pg = 30 PSF, Ce = 0.9 and Is = 1.2, Ct = 1.0 WITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2012 IBC).

MINIMUM ROOF LIVE LOAD = 30 PSF

ROOF DEAD LOAD = 20 PSF

WIND LOAD CRITERIA: SECTION 1609 (2012 IBC)

ULTIMATE WIND SPEED Vt = 130 MPH
NOMINAL DESIGN WIND VASD = 101 MPH
RISK CATEGORY IV, Iw = 1.15
EXPOSURE CLASSIFICATION 'B'.

MINIMUM WIND LOAD ON PRIMARY STRUCTURE = 15 PSF

WIND LOADS ON SECONDARY ELEMENTS SHALL CONFORM WITH ASCE 7-10.

SEISMIC LOAD CRITERIA: AS PER SECTION 1613 (2012 IBC) WITH:
RISK CATEGORY = IV
SEISMIC IMPORTANCE FACTOR, Ie = 1.5
Ss = 0.191g, S1 = 0.063g
SOIL SITE CLASS = D
SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.204g, Sd1 = 0.101g
SEISMIC DESIGN CATEGORY, B
BASIC SEISMIC-FORCE-RESISTING SYSTEM: EXISTING BUILDING

ASSUMED BEARING PRESSURE ON UNDISTURBED SOIL: 4000 PSF
ASSUMED BEARING PRESSURE ON COMPACTED FILL: 4000 PSF

1. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

2. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

THE CONTRACTOR SHALL PROVIDE SHORING CALCULATIONS AND SHORING DRAWINGS, INDICATING THE WORK TO BE PROVIDED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

3. LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.

4. MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.

5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

6. SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKERS INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.

7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.

8. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.

9. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING THEIR BID FOR REFERENCE TO ALL NOTES ON ARCHITECTURAL DRAWINGS REFERRING TO SEE STRUCTURAL DRAWINGS. IF THE SIZE OF ELEMENTS AND DETAILING OF MEMBERS IS NOT INDICATED, THE CONTRACTOR SHALL CONTACT THE ARCHITECT TO REQUEST THE MISSING INFORMATION IN PREPARATION OF THEIR BID. THESE REFERENCED ITEMS SHALL BE PART OF THE BASE BID.

IN CASES OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SUBMITTED SHOP DRAWINGS, THE CONTRACT DOCUMENTS SHALL GOVERN INSTALLATION OF MATERIALS.

FOUNDATIONS

1. BACKFILLING SHALL BE ACCOMPLISHED TO EQUAL HEIGHTS ON BOTH SIDES OF FOUNDATION WALLS TO PREVENT MOVEMENTS DUE TO UNBALANCED EARTH PRESSURE. WHERE EARTH IS ON ONE SIDE ONLY, BACKFILLING AND COMPACTION SHALL NOT START UNTIL FLOOR SLAB OR ADEQUATE BRACING IS PROVIDED FOR WALL SUPPORT (EXCEPT AT RETAINING WALLS).

2. ALL FOOTINGS ARE TO REST ON UNDISTURBED NATURAL SOIL, AS DEFINED IN THE SPECIFICATIONS, OR CONTROLLED COMPACTED FILL, REGARDLESS OF ELEVATIONS SHOWN ON DRAWINGS. FOOTING BOTTOM ELEVATIONS SHALL NOT BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN, NOR LESS THAN 3'-6" BELOW FINISH GRADES.

3. IF FILL MATERIALS ARE ENCOUNTERED AT FOOTING BEARING ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF FOOTING ELEVATION AS REQUIRED.

4. ALL CONTROLLED COMPACTED BACKFILL UNDER FOOTINGS AND WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

5. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF FINISH GRADES AND BOTTOM OF EXTERIOR FOOTING ELEVATIONS TO MAINTAIN THE 3'-6" FROST PROTECTION.

6. ALL SOIL SURROUNDING AND UNDER ALL FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION.

7. FOOTING BOTTOMS SHALL STEP AT THE RATE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 1'-4".

8. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF THE FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS.

9. WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SUBSURFACE PIPING OR CONDUIT, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8" BELOW INVERT ELEVATION OF PIPING OR CONDUITS.

10. KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.

11. USE LEAN CONCRETE (fc = 1500) OR CONTROLLED COMPACTED FILL FOR OVER EXCAVATION OF FOOTINGS.

12. PLACEMENT OF ALL COMPACTED FILL MATERIALS MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY (SEE SPECIFICATIONS). CONCRETE FOUNDATIONS SHALL NOT BE PLACED UNTIL SUBGRADE HAS BEEN CHECKED IN PLACE AND APPROVED BY TESTING LABORATORY.

13. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING FOUNDATIONS, SLABS ON GRADE, OR FOR BACKFILLING OF FOUNDATION WALLS, OR WITHIN 2 FEET OF PAVEMENT GRADES.

14. CONTROL JOINT SPACING IN FOUNDATION WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTEND THROUGH JOINT AND HAVE A CLASS 'B' SPLICE (PER ACI 318-09).

15. WHERE REQUIRED, CONSTRUCTION JOINTS SHALL BE KEVED AND OCCUR AT CONTROL JOINT INTERVALS. PROVIDE BENTONITE WATERSTOP FULL HEIGHT IN ALL WALL CONSTRUCTION JOINTS BELOW GRADE.

16. FOUNDATION DESIGN SITE PREPARATION: THE FOUNDATION DESIGN AS INDICATED ON THE STRUCTURAL DRAWINGS HAS BEEN BASED ON THE FOLLOWING SITE PREPARATION. THE SITE HAS BEEN PREPARED BY THE EXCAVATION AND REMOVAL FROM THE SITE OF ALL EXISTING FILL AND CONTAMINATED SOILS. THE FOUNDATION DESIGN IS BASED ON THE CONTROLLED BACKFILLING OF THE SITE EXCAVATION WITH CONTROLLED FILL COMPACTED TO AT LEAST 95% OF THE MODIFIED OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

SLAB ON GRADE

1. ALL SLABS ON GRADE SHALL BEAR ON A 15 MIL CLASS A, VAPOR RETARDER OVER A MINIMUM OF 6 INCHES OF 3/4" COMPACTED PROCESSED AGGREGATE FILL, OVER A MINIMUM OF 6 INCHES OF COMPACTED GRAVEL FILL.

ALL JOINTS OF THE VAPOR RETARDER SHALL BE SEALED WITH TAPE. TURN THE VAPOR BARRIER UP AT ALL TERMINATIONS AGAINST FOUNDATION WALLS AND SEAL JOINT BY CONTINUOUSLY TAPING.

2. IF FILL MATERIALS ARE ENCOUNTERED AT SLAB SUBGRADE ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF THE SLAB SUBGRADE AS REQUIRED. ALL CONTROLLED COMPACTED BACKFILL UNDER SLABS WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

3. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING SLABS ON GRADE.

4. CONTROL JOINTS ARE TO BE CREATED IN SLABS ON GRADE. JOINTS SHALL BE SAW CUT 1/8" WIDE AND TO A DEPTH EQUAL TO 1/4 OF THE SLAB THICKNESS. LOCATE JOINTS A MAXIMUM OF 15'-0" ON CENTER IN EACH DIRECTION, IN ADDITION TO THOSE LOCATIONS INDICATED ON PLAN.

5. CONSTRUCTION JOINTS AS REQUIRED SHALL BE KEVED AND DOWELED AND LOCATED AT INTERVALS OF A MAXIMUM OF 75 FEET ON CENTER.

6. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF DEPRESSED AREAS IN CONCRETE SLABS AND FOR CONCRETE PADS. MAINTAIN FULL SLAB THICKNESS IN DEPRESSED AREAS, UNLESS OTHERWISE SHOWN.

7. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY WALLS FOR WHICH NO FOOTING IS SHOWN. SEE DETAILS FOR SLAB REINFORCING REQUIREMENTS AT ALL WALL LOCATIONS.

8. CONTRACTOR SHALL CONSOLIDATE ALL SLAB CONCRETE USING VIBRATIONAL METHODS IN CONFORMANCE WITH ACI 309, GUIDE FOR CONSOLIDATION OF CONCRETE.

CONCRETE

MATERIALS:

CONCRETE SHALL DEVELOP STRENGTH IN 28 DAYS AS FOLLOWS:

Table with 2 columns: LOCATION, STRENGTH (PSI). Rows include FOUNDATIONS (3000), WALLS (3000), SLABS ON GRADE (3500), SLABS ON METAL DECK (3500).

1. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW THE LATEST ACI CODE AND THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

2. REINFORCING STEEL SHALL BE 60,000 PSI YIELD.

3. NO TACK WELDING OF REINFORCING WILL BE PERMITTED.

4. UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-02.

5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

6. WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER.

7. WELDED WIRE FABRIC SIZE LAPS SHALL BE STAGGERED TO AVOID FOUR MESH THICKNESS AT COINCIDING END LAP AND SIDE LAP LOCATION.

8. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE.

9. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING FORMWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF BOTTOM OF EXTERIOR FOOTING ELEVATIONS WITH THE FINISH GRADES AND MAINTAINING THE 3'-6" FROST PROTECTION. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS. PIPING OR CONDUITS SHALL NOT PASS THROUGH COLUMNS OR PIERS.

10. CONTRACTOR SHALL ANTICIPATE DEFLECTION OF STEEL AT SUPPORTED ELEVATED SLABS, AND PROVIDE ADDITIONAL CONCRETE AS REQUIRED.

11. ALL HORIZONTAL STEEL SHOWN IN SECTIONS AND DETAILS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED. ALL LAPS SHALL BE CLASS B SPLICES IN ACCORDANCE WITH ACI 318.

12. AT INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING. DOWELS SHALL HAVE A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION.

13. PROVIDE DRILLED AND EPOXIED DOWELS OF SAME SIZE TO MATCH NEW REINFORCING WHERE NEW CONSTRUCTION ADJUTS EXISTING CONCRETE CONSTRUCTION. LENGTH SHALL BE THE REQUIRED EMBEDMENT DEPTH PER THE ANCHOR BOLT/EPOXY MANUFACTURER PLUS A CLASS B LAP SPLICE FOR THE SIZE OF BAR.

14. PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION.

15. ALL KEYS IN CONCRETE WALLS SHALL BE 2 X 4 UNLESS NOTED OTHERWISE.

16. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE, SITE UTILITY AND EQUIPMENT DRAWINGS FOR CONCRETE PADS, SLEEVES, OPENINGS, RECESSES, AND BUILT-IN WORK IN CONCRETE ELEMENTS.

17. THE CONTRACTOR SHALL FURNISH, LOCATE AND INSTALL ALL ACCESSORIES FOR PROPER ANCHORAGE OF WOOD AND METAL FRAMING, WOOD BLOCKING, BRICK WORK AND MASONRY UNITS. HE SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, LOCATING AND ENSURING PROPER QUANTITY OF ALL FASTENING DEVICES.

18. ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH (SEE SPECIFICATIONS).

19. ALL CONCRETE CORNERS WITH BOTH SIDES EXPOSED TO VIEW SHALL BE SQUARE UNLESS OTHERWISE SHOWN OR NOTED. THE EDGE SHALL BE RUBBED, PRODUCING A SMOOTH, DENSE SURFACE WITHOUT PITS OR IRREGULARITIES.

20. PROVIDE CONTINUOUS VERTICAL DOVETAIL SLOTS AT 16 INCH CENTERS HORIZONTALLY FOR ALL CONCRETE WALLS ABUTTING A MASONRY WALL OR MASONRY VENEER, UNLESS OTHERWISE NOTED.

21. PROVIDE CLEARANCE FROM EDGE OF REINFORCING TO EDGE OF CONCRETE AS FOLLOWS:

Table with 2 columns: FOOTINGS (AGAINST EARTH) WALLS, INTERIOR FACE (3/4"), WALLS, EXTERIOR FACE (#6 AND SMALLER) WALLS, EXTERIOR FACE (#6 AND LARGER) SLABS (INTERIOR) SLABS (EXTERIOR) SLABS ON GRADE (W.F.F.) TOP SURFACE.

22. REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE THE SEQUENCE IN WHICH LAYERS OF CROSSING REINFORCING SHOULD BE PLACED, IN ORDER TO PRODUCE THE CORRECT OUTERMOST LAYER AS INDICATED ON THE DRAWINGS.

23. SHOP DRAWINGS SHALL INDICATE LOCATIONS OF ALL WALL CONTROL AND CONSTRUCTION JOINTS.

STRUCTURAL STEEL

MATERIALS:

Table with 2 columns: STRUCTURAL STEEL ALL W SHAPES, STRUCTURAL STEEL TUBING, STRUCTURAL STEEL PIPE, BOLTS, ANCHOR BOLTS, WELDING ELECTRODE.

1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO CURRENT AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION.

2. WELDING SHALL CONFORM TO THE CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY.

3. ALL LOOSE BEAM LINTELS SHALL HAVE 8" MINIMUM BEARING. SEE ARCHITECTURAL JAMB DETAILS FOR LENGTHS.

4. FOR MISCELLANEOUS STEEL REFER TO ARCHITECTURAL DRAWINGS.

5. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. STANDARDS.

6. PROVIDE LEVELING NUTS FOR ALL COLUMN BASE PLATES WITH FOUR (4) ANCHOR BOLTS AND PROVIDE 1 1/2" MINIMUM, 5000 PSI NON-SHRINK GROUT.

7. CONNECTIONS:

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION UNLESS OTHERWISE DETAILED.

CONNECTIONS SHALL BE DESIGNED TO ACCOMMODATE THE REACTIONS RESULTING FROM THE ALLOWABLE UNIFORM LOAD BEAM TABLES, PER THE AISC MANUAL, FOR THE SPAN INDICATED ON THE DRAWINGS.

MINIMUM CONNECTION ANGLE THICKNESS SHALL BE 5/16". USE DOUBLE FRAMING ANGLE CONNECTIONS.

CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER ASTM A325 BOLTS (SNUG TIGHT OR SLIP CRITICAL) OR WELDS, UNLESS NOTED OTHERWISE. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES USING CLASS A FAYING SURFACE.

PROVIDE SLOTTED BOLTED CONNECTIONS WHERE SHOWN WITH 13/16" X 1 7/8" SLOTTED HOLES USING ASTM A 325 BOLTS WITH WASHERS. NUTS SHALL BE FASTENED SNUG TIGHT, THEN UNTIGHTENED BY ONE-HALF TURN. PEEN THREADS TO PREVENT FURTHER LOOSENING OF NUT.

USE LARGER OF 1/4" FILLET WELDS OR MINIMUM SIZE PER AISC REQUIREMENTS WHERE NO WELD SIZE IS SHOWN ON DRAWINGS.

WELDS IN EXCESS OF 24" IN LENGTH SHALL BE 3" STITCH WELDS AT 8" ON CENTERS, UNLESS SPECIFICALLY SHOWN ON DRAWINGS TO BE CONTINUOUS.

8. NO WELDING OR FINAL BOLTING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE THAT WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

9. SEQUENCE OF PLACING WELDS SHALL BE SUCH AS TO AVOID DISTORTION OF MEMBERS.

10. SUBSTITUTION OF STRUCTURAL STEEL MEMBERS IS PERMITTED TO FACILITATE DELIVERY AT NO ADDITIONAL COST TO THE OWNER. SUBSTITUTED MEMBERS MUST BE OF THE SAME NOMINAL DEPTH AS THE MEMBER ORIGINALLY INDICATED AND HAVE A WEIGHT GREATER THAN THAT INDICATED. BEAM FLANGES MUST NOT INFRINGE ON ADJACENT ARCHITECTURAL ELEMENTS.

11. PROVIDE DEFORMED BAR ANCHORS ON THE TOP OF ALL BEAMS SUPPORTING CONCRETE MASONRY UNIT WALLS OR MULTI-WYTHE BRICK WALLS. THE ANCHORS SHALL BE WELDED AT 24" ON CENTER AND SHALL BE THE SAME SIZE AS THE WALL REINFORCING. DEFORMED BAR ANCHORS SHALL BE PLACED BY A TIMED STUD WELDING MACHINE.

12. STEEL MEMBERS SHOWN CONNECTED TO MASONRY WITH EXPANSION ANCHORS SHALL HAVE 3/4" DIAMETER EXPANSION ANCHORS AT 2'-0" ON CENTERS IN VERTICALLY SLOTTED HOLES, UNLESS OTHERWISE INDICATED.

13. PROVIDE 9/16" DIAMETER HOLES FOR WOOD NAILERS AS REQUIRED BY ARCHITECTURAL DRAWINGS.

14. BEAMS BEARING ON MASONRY SHALL HAVE ANGLE WALL ANCHORS WELDED TO THE BEAM, AS DETAILED IN THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION.

15. PROVIDE 8" X 8" X 5/8" BEARING PLATES FOR ALL WALL BEARING BEAMS UNLESS NOTED OTHERWISE. ALL PLATES SHALL HAVE A MINIMUM OF (2)-3/4" DIAMETER X 9" LONG WELDED STUDS ON THE BOTTOM TO SET IN CONCRETE OR MASONRY WALLS.

16. EXISTING STEEL SURFACES TO RECEIVE FIELD WELDS SHALL BE THOROUGHLY CLEANED UNTIL FREE FROM PAINT, RUST, GREASE, ETC.

17. PROVIDE AN ELEVATOR HOIST BEAM AT EACH ELEVATOR. THE BEAM SHALL BE A W8X21 MINIMUM COORDINATE WITH THE ARCHITECTURAL DRAWINGS. THE BEARING PLATE ON MASONRY WALLS SHALL BE A PLATE 3/4"X6"X12" MINIMUM WITH (2)-3/4" DIAMETER ANCHOR BOLTS SET INTO GROUTED MASONRY.

METAL ROOF DECK

MATERIALS:

TYPICAL METAL DECK SHALL BE 1 1/2" GALVANIZED WIDE RIB TYPE WITH NESTING SIDE SEAMS OF GAGE INDICATED ON THE DRAWINGS.

DECK SHALL CONFORM TO 'BASIC DESIGN SPECIFICATION' AS ADOPTED BY THE STEEL DECK INSTITUTE.

METAL ROOF DECK SHALL BE FURNISHED IN SHEET LENGTHS SUFFICIENT TO EXTEND OVER FOUR SUPPORTS (3 SPANS) WHEREVER POSSIBLE.

ATTACHMENT:

METAL DECK SHALL BE SCREWED TO SUPPORTING STEEL WITH #12 SELF TAPPING SCREWS SPACED NOT MORE THAN 12" ON CENTER WITH A 36/4 FASTENING PATTERN, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

SCREW METAL ROOF DECK TO STEEL MEMBERS PARALLEL TO SPAN OF DECK USING #12 SELF TAPPING SCREWS SPACED AT 12" ON CENTER. WELDING OF THE ROOF DECK IS PROHIBITED.

INTERMEDIATE SIDE CONNECTIONS SHALL BE MADE WITH #10 SELF TAPPING SCREWS. THE MAXIMUM SPACING OF SIDE LAP CONNECTIONS SHALL BE 1'-6" WITH A MINIMUM OF (4) SCREWS PER SPAN. FOR 3' DECK USE A MINIMUM OF (8) SCREWS PER SPAN.

LONG SPAN ROOF DECK SHALL HAVE BUTTON PUNCHED SIDELAPS SPACED AT 3'-0" MAX.

CONCRETE MASONRY

MATERIALS:

HOLLOW LOAD BEARING UNITS: ASTM C 90 MORTAR (TYPE S) ASTM C 270 (COMPRESSIVE STRENGTH OF MASONRY: fm = 1500 PSI) GROUT FOR REINFORCED MASONRY: ASTM C 476 (COMPRESSIVE STRENGTH AT 28 DAYS = 2500 PSI) GROUT FOR REINFORCED MASONRY: ASTM C 476 SOLID LOAD BEARING UNITS: GRADE N-1/1 ASTM C 145 CONCRETE BRICK: GRADE N-1 ASTM C 65

1. WALLS INDICATED ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, THICKNESS AND COMPOSITION OF MASONRY WALLS.

2. ALL MASONRY WALLS SHALL CONTAIN THE FOLLOWING REINFORCING:

1-#5 VERTICAL BAR AT 32" ON CENTER. 2-#6 VERTICAL BARS AT BOTH SIDES OF DOOR, WINDOW AND MECHANICAL OPENINGS.

2-#5 HORIZONTAL BAR MINIMUM ABOVE AND BELOW ALL WINDOW AND MECHANICAL OPENINGS AND ABOVE ALL DOOR OPENINGS. PROVIDE ADDITIONAL BARS ABOVE DOORS, WINDOWS AND MECHANICAL OPENINGS AS REQUIRED IN ACCORDANCE WITH LINTEL SCHEDULE ON ARCHITECTURAL DRAWINGS.

2-#5 HORIZONTAL AT TOP OF ALL WALLS, AND AT BOND BEAMS CONNECTED TO FLOORS AND ROOFS, UNLESS OTHERWISE INDICATED.

2-#6 VERTICAL BARS AT ENDS OF ALL WALLS, AND EACH SIDE OF CONTROL JOINTS. STANDARD LADUR TYPE DESIGN DUR_O_VAL HORIZONTAL REINFORCING @ 16" O.C. VERTICAL. SIDE WIRE SIZE SHALL BE #9 GAGE WIRE.

3. PROVIDE VERTICAL DOWELS FROM CONCRETE WALLS INTO ALL CMU WALLS. SIZE AND SPACING OF THE DOWELS SHALL MATCH THE VERTICAL REINFORCING AS SPECIFIED IN THESE GENERAL NOTES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. DOWEL LENGTHS SHALL BE THE REQUIRED CONCRETE DEVELOPMENT LENGTH PLUS THE REQUIRED BAR LAP SPICE LENGTH FOR MASONRY AS SPECIFIED IN THESE GENERAL NOTES.

4. ALL VERTICAL WALL REINFORCING SHALL BE CONTINUOUS FOR THE FULL HEIGHT OF MASONRY WALLS, INCLUDING THROUGH CONTINUOUS MASONRY BOND BEAMS UNLESS OTHERWISE INDICATED.

5. ALL GROUTING OF MASONRY WALLS SHALL BE ASSUMED TO BE COMPLETED BY LOW LIFT GROUTING METHODS. IF THE CONTRACTOR PROPOSES TO UTILIZE HIGH LIFT GROUTING METHODS THEY SHALL SUBMIT THEIR PROPOSED HIGH LIFT GROUTING PROCEDURE FOR REVIEW PRIOR TO STARTING ANY GROUTING ON THE PROJECT SITE.

6. REINFORCING ABOVE WINDOWS, DOORS AND MECHANICAL OPENINGS IN THE EXTERIOR WALLS SHALL BE IN A BOND BEAM COURSE ABOVE THE STEEL LINTELS PROVIDED AT THESE OPENINGS. BOND BEAMS SHALL EXTEND 2'-0" BEYOND THE OPENING.

7. CELLS CONTAINING REINFORCING BARS AND ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID. ALL OTHER CELLS SHALL REMAIN HOLLOW EXCEPT WHERE NOTED. THE CONTRACTOR SHALL NOT RUN CONDUIT OR PIPE IN CELLS CONTAINING REINFORCING.

8. ALL BOLTS OR ANCHORS SHALL BE SOLIDLY EMBEDDED IN MORTAR OR GROUT; IF BOND BEAM IS NOT LOCATED AT BOLT OR ANCHOR ELEVATION, PROVIDE LATH AND FILL CELL LOCALLY TO PROVIDE SUBSTRATE FOR BOLT OR ANCHOR. GROUT CELL ABOVE ALL MASONRY ANCHORS.

9. USE 2 COURSES (16") OF SOLID MASONRY OR GROUTED SOLID MASONRY BELOW EACH BEAM OR LINTEL BEARING EXCEPT AS NOTED.

10. PROVIDE CONTINUOUS GROUTED BOND BEAM WHERE MASONRY ANCHORS CONNECT CONCRETE MASONRY TO STEEL FRAMING. GROUT CELL ABOVE ANCHOR.

11. HOLLOW UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS, EXCEPT THAT WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF BEARING AND SHEAR WALLS, PIERS, COLUMNS AND PLASTERS, AND IN THE STARTING COURSE ON FOOTINGS AND SOLID FOUNDATION WALLS, AND WHERE ADJACENT TO CELLS OR CAVITIES WHICH ARE TO BE REINFORCED AND/OR FILLED WITH GROUT.

12. MORTAR PROTRUSIONS EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND/OR GROUTED SHALL BE REMOVED.

13. ALL MASONRY WALLS SHALL BE BRACED AT THE TOP WHERE MASONRY ENDS AT THE UNDERSIDE OF FLOOR OR ROOF CONSTRUCTION. REFER TO TYPICAL DETAILS.

14. ALL MASONRY WALLS THAT DO NOT EXTEND TO BOTTOM OF FLOOR OR ROOF STRUCTURE ABOVE SHALL BE BRACED AT THE TOP, UNLESS BRACED HORIZONTALLY BY COLUMNS OR INTERSECTING WALLS AT A MAXIMUM SPACING OF 11 FEET FOR 4' WALLS, 17 FEET FOR 6' WALLS, 23 FEET FOR 8' WALLS, AND 33 FEET FOR 12' WALLS. THE ENDS OF THE WALLS MUST BE ANCHORED TO INTERSECTING WALLS BY EITHER TOOTHING OR MECHANICAL ANCHORS. THERE SHALL BE NO VERTICAL CONTROL JOINTS WITHIN THE HORIZONTAL SPAN OF THE WALL BETWEEN THE INTERSECTING WALLS.

15. IN MASONRY WALLS, NO CHASES, RISERS, CONDUITS, OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 17" OF CENTERLINE OF BEAM BEARING OR LOAD CONCENTRATION.

16. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS.

17. COLLAR (VERTICAL LONGITUDINAL) JOINTS BETWEEN THE FACING AND BACKING WYTHES IN WALLS SHALL BE COMPLETELY FILLED WITH MORTAR OR GROUT AND WORKED IN WITH A TROWEL.

18. ALL INTERSECTING LOAD BEARING WALLS SHALL BE TIED TOGETHER IN MASONRY BOND UNLESS NOTED OTHERWISE.

19. MINIMUM DEVELOPMENT LENGTH AND SPLICE LENGTH OF MASONRY REINFORCING SHALL BE AS FOLLOWS:

Table with 3 columns: BAR SIZE, DEVELOPMENT LENGTH, SPLICE LENGTH. Rows include 1. BAR SIZE, 2. JOINT REINFORCING, 3. #4, 4. #5, 5. #6, 6. #7.

20. SUBMIT SHOP DRAWINGS INDICATING THE PLACEMENT OF ALL REINFORCING REQUIRED IN MASONRY WALLS. REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. SHOP DRAWINGS SHALL INDICATE THE LOCATION OF ALL CONTROL JOINTS, AND THE REQUIRED LAP SPLICES FOR ALL REINFORCING.

WOOD FRAMING

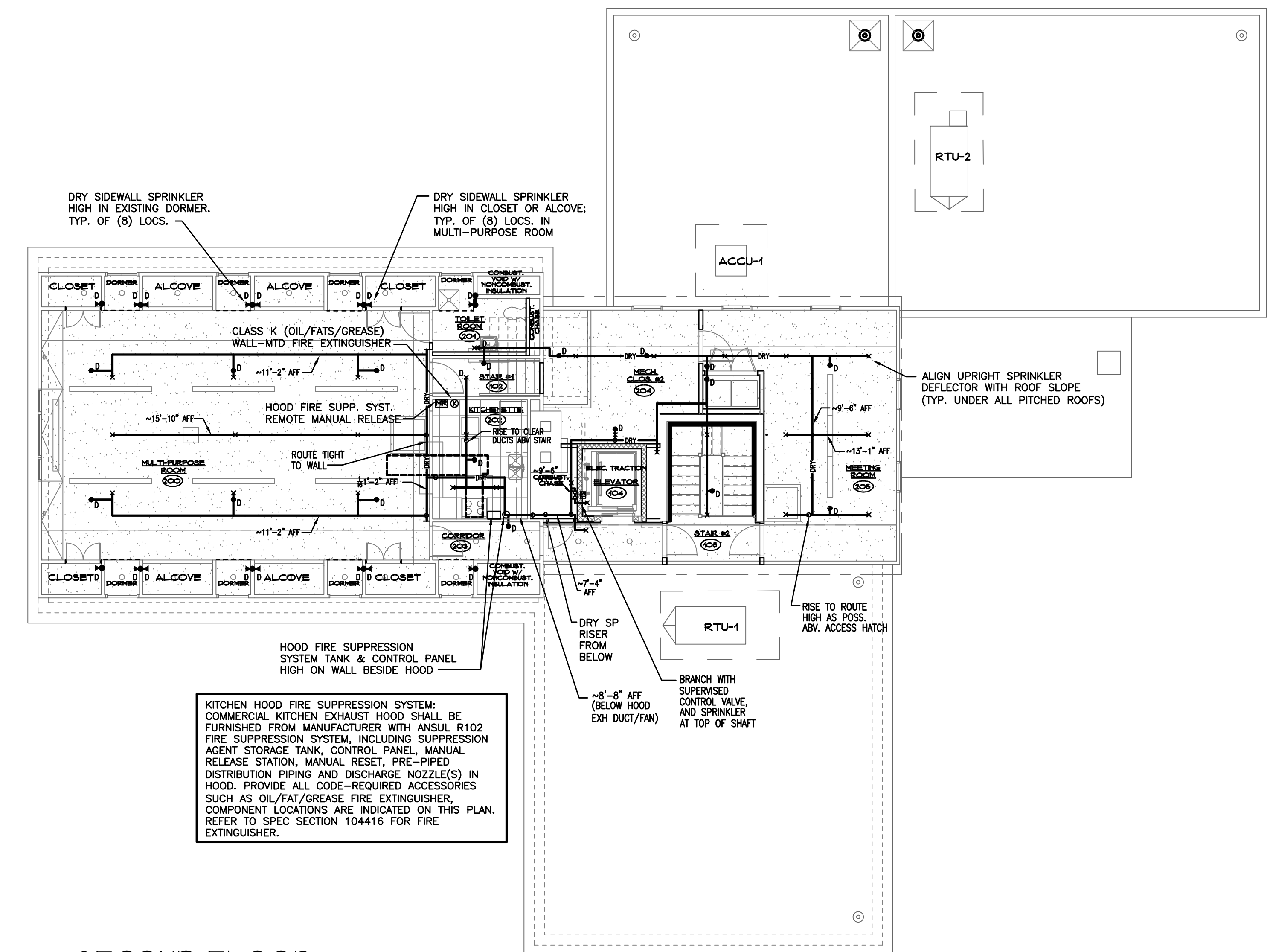
1. LUMBER FOR WOOD JOISTS, RAFTERS AND BEAMS SHALL BE DOUG-FIR, NUMBER 2 GRADE, WITH 19% MAXIMUM MOISTURE CONTENT AND MINIMUM SAFE STRENGTH CAPACITY OF:

Fb = 875 PSI FOR BENDING
Fc (perp.) = 625 PSI FOR COMPRESSION PERP. TO GRAIN
Fc (par.) = 1300 PSI FOR COMPRESSION PARALLEL TO GRAIN
Fv = 95 PSI FOR HORIZONTAL SHEAR
E = 1,600,000 PSI MODULUS OF ELASTICITY

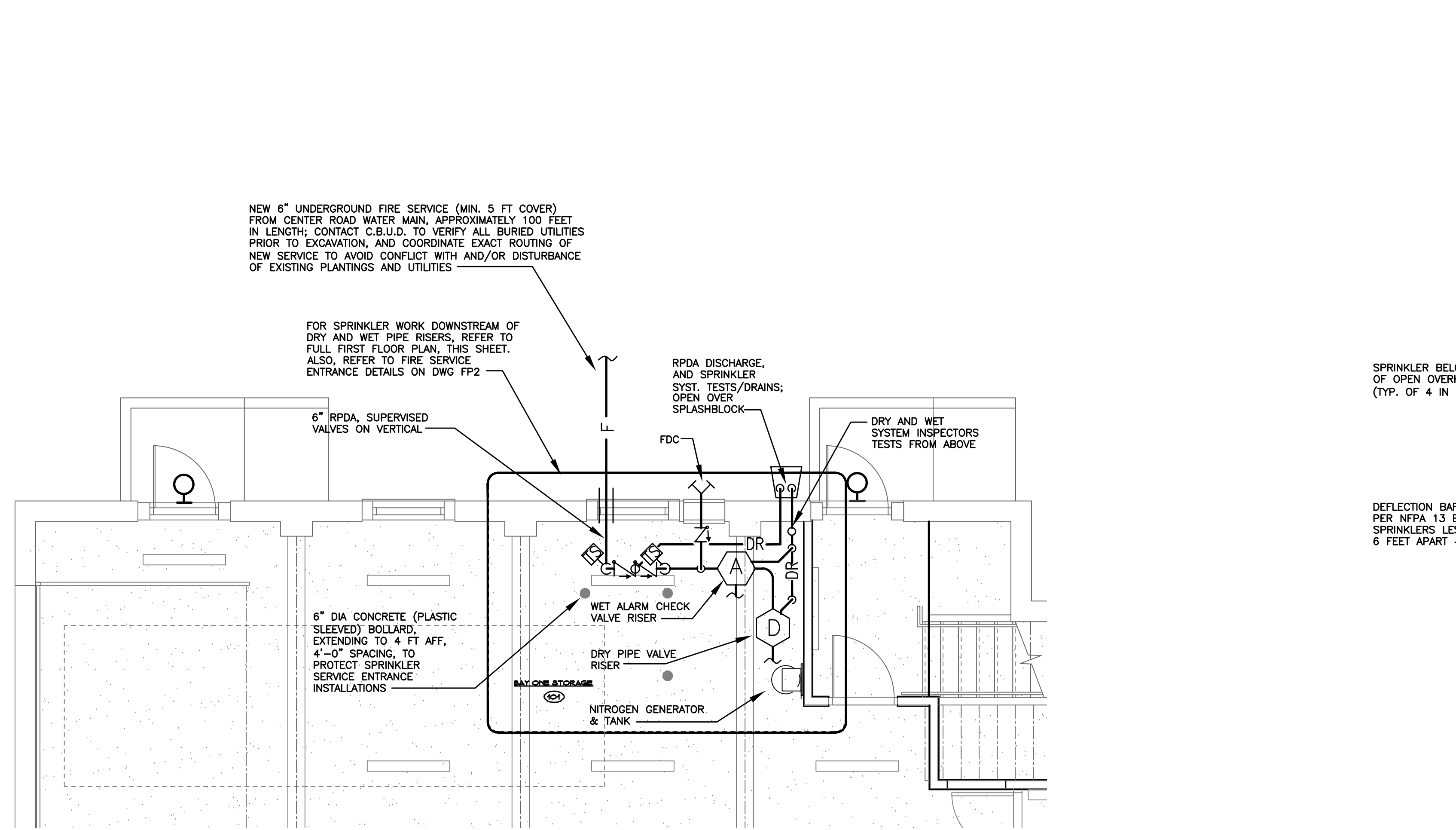
2. LUMBER FOR WOOD STUDS SHALL BE DOUG-FIR, NUMBER 2 GRADE, WITH 19% MAXIMUM MOISTURE CONTENT AND MINIMUM SAFE CAPACITY OF:

Fb = 875 PSI FOR BENDING
Fc (perp.) = 625 PSI FOR COMPRESSION PERP. TO GRAIN
Fc (par.) = 1300 PSI FOR COMPRESSION PARALLEL TO GRAIN
Fv = 95 PSI FOR HORIZONTAL SHEAR
E = 1,600,000 PSI MODULUS OF ELASTICITY

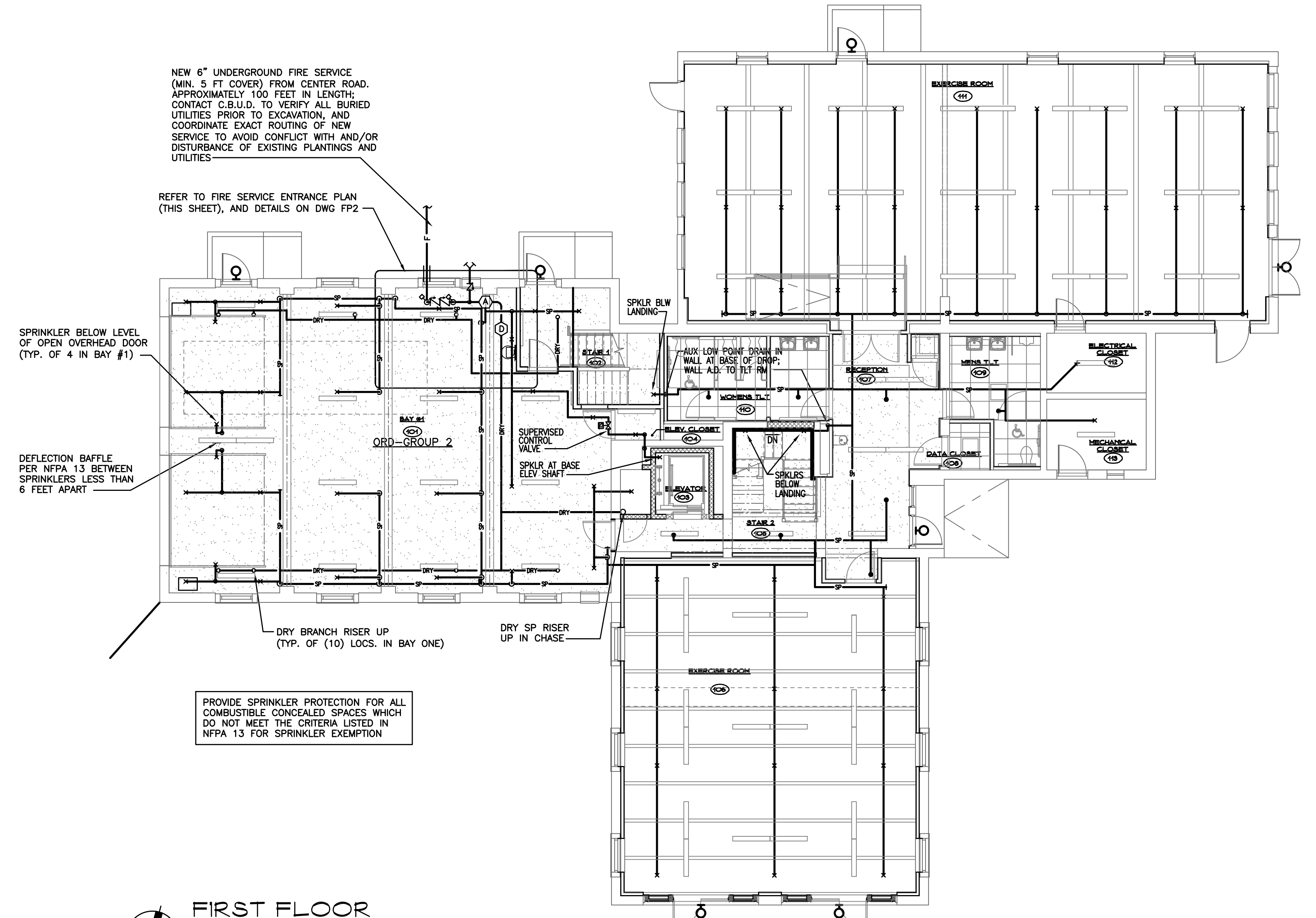
3. ALL LUM



SECOND FLOOR - FIRE PROTECTION PLAN 2
 SCALE: 1/8" = 1'-0"
 NORTH



ENLARGED PART FIRST FLOOR PLAN AT FIRE SERVICE ENTRANCE 3
 SCALE: 1/4" = 1'-0"
 NORTH



FIRST FLOOR FIRE PROTECTION PLAN 1
 SCALE: 1/8" = 1'-0"
 NORTH

Project Title:
 Renovations to:
 Old Woodbridge Fire Station
 4 Newton Road
 Woodbridge, Connecticut 06525

SILVER / PETRUCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucelli.com

| Revision | Description | Date | Revised By |
|----------|-------------|------|------------|
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Drawing Title:
FIRE PROTECTION FLOOR PLANS

Date:
 5.18.18

Scale:
 AS NOTED

Drawn By:
 MBQ

Project Number:
 11,147

Drawing Number:
FP1

FIRE PROTECTION NOTES

- INSTALL SPRINKLER SYSTEMS IN ACCORDANCE WITH MINIMUM STANDARDS OF NFPA 13, CURRENT ADOPTED EDITION IN STATE PROJECT IS LOCATED. USE ONLY NEW APPROVED (UL/FM) SPRINKLERS, MATERIALS AND DEVICES. ADHERE TO SPRINKLER SPACING RULES.
- ALL SYSTEM COMPONENTS SHALL BE CAPABLE OF WITHSTANDING A WORKING PRESSURE OF 175 PSI.
- SUPPORT SPRINKLER PIPING IN A SUBSTANTIAL MANNER FROM BUILDING STRUCTURE, AND INDEPENDENT OF THE CEILING MATERIAL. DO NOT USE SPRINKLER PIPING OR HANGERS TO SUPPORT NON-SYSTEM COMPONENTS.
- MAKE REDUCTIONS IN PIPE SIZES WITH ONE-PIECE REDUCING FITTINGS. DO NOT USE BUSHINGS.
- PROVIDE CLEARANCE AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS AND FOUNDATIONS.
- ARRANGE PIPING TO FACILITATE FLUSHING. PROVIDE READILY REMOVABLE FITTINGS AT ENDS OF ALL CROSS AND FEED MAINS.
- INSTALL ALL PIPING WITH PROVISIONS FOR COMPLETE DRAINAGE. WET-PIPE SPRINKLER SYSTEMS MAY BE INSTALLED LEVEL, AND NOT SLOPED. DRY PIPE SYSTEMS SHALL BE PITCHED PER NFPA 13.
- DO NOT SCALE DRAWINGS. CHECK SPACE CONDITIONS AT THE JOB SITE.
- SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, FLOW TESTS, INSPECTIONS AND APPROVALS.
- SUBMIT: (1) SHOP DRAWINGS AND HYDRAULIC CALCULATIONS, STAMPED/SIGNED BY PROFESSIONAL ENGINEER OR OTHER STATE AND LOCAL-APPROVED DESIGNER, LICENSED IN STATE WHERE PROJECT IS LOCATED, (2) SPRINKLER SYSTEM PRODUCT DATA AND (3) CONTRACTOR-SIGNED AND AHJ-WITNESSED COPY OF "CONTRACTOR'S MATERIAL AND TEST CERTIFICATE" TO FIRE MARSHAL HAVING JURISDICTION, TO ENGINEER, AND TO OWNER'S INSURANCE CARRIER FOR APPROVAL.
- PROVIDE WET AND DRY SPRINKLER SYSTEMS WITH TEST CONNECTIONS. INSPECTOR'S TEST VALVE SHOULD BE READILY ACCESSIBLE AND INSTALLED NOT OVER 7 FEET ABOVE THE FLOOR.
- INSTALL SPRINKLERS BENEATH DUCTS AND OTHER OBSTRUCTIONS TO SPRINKLER DISCHARGE WHICH ARE MORE THAN 4 FEET WIDE.
- PROVIDE ALL CONTROL, DRAIN AND TEST VALVES WITH IDENTIFICATION SIGNS AND SUPERVISORY SWITCHES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL SPRINKLER HEADS, DIFFUSERS, LIGHTS, GRILLES, ETC.

SPRINKLER SYSTEM NOTES

- CONTRACTOR SHALL RUN PIPING TO ALL SPRINKLER HEADS. COORDINATE EXACT LOCATION OF PIPING, SIZE ALL PIPING, COORDINATE WITH OTHER TRADES, PRODUCE SHOP DRAWINGS AND HYDRAULIC CALCULATIONS AS LISTED THROUGHOUT.
- THE CONTRACTOR SHALL NOT REVISE OR DEVIATE FROM THE MAIN PIPING LAYOUT, VALVES, EQUIPMENT, ACCESSORIES, DEVICES OR SPRINKLER HEADS SHOWN ON THESE DRAWINGS AND ITEMS LISTED IN THE SPECIFICATIONS.
- THE SPRINKLER HEAD LAYOUT INDICATED ON THE PLANS IS SHOWN ONLY FOR GENERAL REFERENCE AND COORDINATION WITH OTHER TRADES. DO NOT COUNT THE SPRINKLER HEADS INDICATED FOR BIDDING PURPOSES. THE ACTUAL NUMBER OF SPRINKLERS REQUIRED SHALL BE BASED ON FINAL COORDINATED SPRINKLER SHOP DRAWINGS.
- PROVIDE AND INSTALL WHETHER SHOWN OR NOT, INSIDE THE BUILDING, A 1" INSPECTOR'S TEST CONNECTION, INCLUDING A 1" SHUTOFF VALVE AND SIGHT GLASS, FOR WET SPRINKLER SYSTEM AND A 1" DRY INSPECTOR'S TEST CONNECTION FOR DRY SPRINKLER SYSTEM.
- FURNISH AND INSTALL, WHERE DIRECTED BY THE OWNER, A SPARE HEAD CABINET INCLUDING A WRENCH AND SPRINKLER HEAD SPARES OF ALL TYPES, DEGREE RATING AND ORIFICE SIZES INSTALLED.
- BEFORE ACTUAL INSTALLATION, THIS CONTRACTOR SHALL PREPARE AND SUBMIT ACTUAL DETAILED WORKING DRAWINGS TO THE TOWN OF WOODBRIDGE FIRE MARSHAL AND INSURANCE UNDERWRITER TO OBTAIN STAMPED FINAL APPROVAL.
- A STANDARD INSTALLATION OF AUTOMATIC SPRINKLERS ARRANGED AS A WET PIPE SYSTEM AND A NITROGEN-CHARGED DRY PIPE SYSTEM IS REQUIRED. THE SPRINKLER CONTRACTOR SHALL HYDRAULICALLY DESIGN THE SPRINKLER SYSTEMS STARTING AT THE BASE OF THE ALARM CHECK VALVE AND DRY PIPE VALVE RISERS. THE SYSTEM SHALL BE DESIGNED TO PROVIDE DENSITIES AS NOTED OVER THE HYDRAULICALLY MOST REMOTE AREAS. ALLOWANCE FOR INSIDE AND OUTSIDE HOSE TO BE INCLUDED.
- AT EACH SYSTEM RISER (WET AND DRY) SHALL HANG A HYDRAULIC CALCULATION POSTER SIGN EQUAL TO "VIKING" #03573C, PROVIDING CALCULATION DATA FOR THAT RISER'S HYDRAULICALLY MOST REMOTE AREA.
- CAUTION SIGNS SHALL BE ATTACHED TO ALL CONTROLLING SPRINKLER VALVES AS PER NFPA 13.
- WHERE PIPING IS TO BE RUN THROUGH EXPANSION JOINTS, CONTRACTOR SHALL INSTALL EXPANSION LOOPS AT THAT POINT.
- ALL DRY OR NORMALLY DRY PIPING NOT CHARGED WITH NITROGEN SHALL BE GALVANIZED STEEL SCHEDULE 40; THIS INCLUDES FIRE DEPARTMENT CONNECTION, TEST AND DRAIN PIPING.
- SPRINKLER FEED MAINS AND SP ZONE PIPE SIZES SHALL BE DETERMINED FROM FIRE PROTECTION CONTRACTOR SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.
- SUBMITTALS FOR APPROVAL - THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR APPROVAL:
 - A COMPLETE SET OF DETAILED CONTRACTOR'S INSTALLATION DRAWINGS TO INCLUDE: A FULL HEIGHT CROSS SECTION, LOCATIONS OF ALL WALLS, PARTITIONS, LIGHTS, DIFFUSERS, GRIDS, MAJOR EQUIPMENT AND DUCTWORK, SIZE OF SITE WATER MAIN AND PRESSURE, NOMINAL PIPE SIZES, CUTTING LENGTHS AND FINISHED FLOOR TO PIPE ELEVATION LENGTH, LOCATION OF ALL VALVES, MAINS, BRANCH PIPING AND SPRINKLER HEADS HYDRAULIC NAMEPLATE DATA AND ALL PERTINENT INFORMATION. SUBMITTAL INFORMATION OUTLINED IN NFPA 13.
 - A COMPLETE SET OF DETAILED HYDRAULIC CALCULATIONS FOR EACH SYSTEM WITH HYDRAULIC REFERENCE POINTS, AS PER NFPA 13. SUBMITTAL INFORMATION OUTLINED IN NFPA 13.
 - A COMPLETE SET OF DETAILED PRODUCT SUBMITTALS. FOR ALL PRODUCTS REQUIRED BY NFPA 13 TO BE LISTED FOR THE INTENDED USE, SUCH LISTING SHALL BE CLEARLY INDICATED ON THE SUBMITTAL.
- ALL NEW PIPING PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED WITH LISTED FIREPROOFING MATERIALS. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND SPEC SECTION 078413 "PENETRATION FIRESTOPPING".
- PROVIDE SEISMIC SUPPORTS PER NFPA 13 REQUIREMENTS AND THE CONNECTICUT STATE BUILDING CODE.
- ALL PIPING IS TO BE RUN CONCEALED ABOVE CEILINGS OR IN WALLS. PIPING IS TO BE EXPOSED ONLY WHERE NOTED ON DRAWINGS. IF CONTRACTOR CANNOT RUN PIPING CONCEALED, NOTIFY ENGINEER IMMEDIATELY TO RESOLVE CONFLICT.
- IN SMALL ROOMS OR CLOSETS WHERE SURFACE MOUNTED LIGHTS OR OTHER OBSTRUCTIONS EXIST, THE CONTRACTOR SHALL INSTALL STANDARD PENDENT HEADS WITH DEFLECTOR BELOW THE LEVEL OF THE OBSTRUCTION, OR MAINTAIN CLEARANCE FROM THE OBSTRUCTION PER OBSTRUCTION DEPTH ACCORDING TO RULES SET BY NFPA 13. DEEP CHROME ESCUTCHEONS MAY BE USED IF ABSOLUTELY NECESSARY. THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY IF THESE ESCUTCHEONS ARE REQUIRED DUE TO THE CONCERN OF AESTHETICS OF THE SPRINKLER SYSTEM. SEE NFPA 13 FOR OBSTRUCTION CLEARANCE RULES.
- PIPING MAINS ARE SHOWN ONLY TO CLARIFY WHERE THE ENGINEER INTENDS THE PIPING TO BE LOCATED. THE CONTRACTOR SHALL NOT DEVIATE FROM THE LOCATIONS SHOWN UNLESS IT IS PHYSICALLY IMPOSSIBLE TO INSTALL PIPING IN THOSE LOCATIONS. SPRINKLER CONTRACTOR SHALL RUN ALL OTHER REQUIRED PIPING TO SPRINKLER HEADS, TEST, DRAINS, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELBOWS, TEES, DROPS, AND MISCELLANEOUS PIPING REQUIRED DUE TO ELEVATION CHANGES, OBSTRUCTIONS, ETC. TO INSTALL A COMPLETE AND FULLY FUNCTIONAL SPRINKLER SYSTEM.
- AT ALL LOCATIONS WHERE PIPING IS ATTACHED TO BEAMS, A GALVANIZED BEAM RESTRAINING STRAP MUST BE USED IN CONJUNCTION WITH GALVANIZED BEAM CLAMP.
- CONCEALED SPACES ENCLOSED IN COMBUSTIBLE CONSTRUCTION. IN ADDITION TO THE CEILING SPACES AND ATTIC SPACES INDICATED ON THE DRAWINGS TO BE SPRINKLERED, MAY EXIST OR BE CREATED AS PART OF THE RENOVATION. IDENTIFY LOCATIONS OF SUCH SPACES AND PROVIDE SPRINKLER PROTECTION PER NFPA 13 FOR SAME.

| FIRE PROTECTION LEGEND (NOT ALL SYMBOLS ARE USED) | | |
|--|--------------|---|
| SYMBOL | ABBREVIATION | DESCRIPTION |
| | F | FIRE MAIN PIPING |
| | SP, SPK | WET SYSTEM SPRINKLER PIPING |
| | DRY | DRY SPRINKLER PIPING |
| | FDC | FIRE DEPARTMENT CONNECTION PIPING |
| | DR | DRAIN PIPING |
| | N2 | NITROGEN PIPING |
| | | DRY RECESSED PENDENT SPRINKLER HEAD (QUICK RESPONSE) |
| | | RECESSED PENDENT SPRINKLER HEAD (QUICK RESPONSE) |
| | | UPRIGHT SPRINKLER HEAD (QUICK RESPONSE) |
| | | UPRIGHT SPRINKLER HEAD (QUICK RESPONSE) WITH HEAD GUARD |
| | | UPRIGHT SPRINKLER HEAD (QUICK RESPONSE) WITH BAFFLE PLATE |
| | | SIDEWALL SPRINKLER HEAD (QUICK RESPONSE) (NORMAL 14x14" THROW) |
| | | SIDEWALL SPRINKLER HEAD (QUICK RESPONSE) (DRY) |
| | OSY W/TS | OUTSIDE SCREW & YOKE VALVE WITH TAMPER SWITCH |
| | CV | CHECK VALVE |
| | FS | FLOW SWITCH |
| | | TEST & DRAIN VALVE |
| | | FIRE DEPARTMENT CONNECTION (REFER TO SPECIFICATIONS FOR EXACT TYPE) |
| | RPD | REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY |
| | | PIPING DOWN |
| | | PIPING UP |
| | | PRESSURE GAUGE |
| | ACV | ALARM CHECK VALVE ASSEMBLY |
| | DPV | DRY PIPE VALVE ASSEMBLY |

FIRE PROTECTION DESIGN CRITERIA

NOTE: ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.

FIRST FLOOR (WET SYSTEM):
 OFFICE, CONFERENCE, FITNESS, TOILET, AND PUBLIC ACCESS AREAS (NOT INCLUDING STORAGE AREAS) - INSTALL A HYDRAULICALLY BALANCED WET SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1500 SQUARE FOOT AREA WITH A 100 GPM ALLOWANCE FOR HOSE STREAMS. SPRINKLER HEAD SPACING SHALL BE 225 SQUARE FT. PER HEAD MAX. FOR UPRIGHT AND PENDENT SPRINKLER HEADS; PROVIDE RECESSED PENDENT IN FINISHED CEILINGS, UPRIGHT IN AREAS WITHOUT CEILINGS.

MECHANICAL/ELECTRICAL EQUIPMENT ROOMS, ELEVATOR MACHINE ROOM - INSTALL A HYDRAULICALLY BALANCED WET SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.15 GPM PER SQUARE FOOT OVER THE MOST REMOTE AREA UP TO A MAXIMUM OF 1500 SQUARE FOOT AREA WITH A 250 GPM ALLOWANCE FOR HOSE STREAMS. SPRINKLER HEAD SPACING: 130 SQUARE FT. PER HEAD MAX. SPRINKLER HEADS; PROVIDE RECESSED PENDENT IN FINISHED CEILINGS, UPRIGHT IN AREAS WITHOUT CEILINGS.

STORAGE ROOMS (INCLUDING BAY ONE AND JANITOR'S CLOSETS) - INSTALL A HYDRAULICALLY BALANCED WET SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.20 GPM PER SQUARE FOOT OVER THE MOST REMOTE AREA UP TO A MAXIMUM OF 1500 SQUARE FOOT AREA WITH A 250 GPM ALLOWANCE FOR HOSE STREAMS. SPRINKLER HEAD SPACING: 130 SQUARE FT. PER HEAD MAX. SPRINKLER HEADS; PROVIDE RECESSED PENDENT IN FINISHED CEILINGS, UPRIGHT IN AREAS WITHOUT CEILINGS.

CEILING SPACES ENCLOSED BY LIMITED COMBUSTIBLE OR COMBUSTIBLE CONSTRUCTION - UNLESS EXEMPTED BY NFPA 13 FOR CONDITIONS ENCOUNTERED, SPRINKLER PROTECTION IS REQUIRED IN THESE CEILING SPACES. CEILING SPACES SHALL NOT BE USED FOR STORAGE. INSTALL A HYDRAULICALLY BALANCED WET SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER THE MOST REMOTE AREA UP TO A MAXIMUM OF 1500 SQUARE FOOT AREA WITH A 100 GPM ALLOWANCE FOR HOSE STREAMS. PROVIDE UPRIGHT SPRINKLER HEADS; SPRINKLER HEAD SPACING SHALL BE ACCORDING TO THE REQUIREMENTS OF NFPA 13, CHAPTER 8 FOR THE TYPE OF CONSTRUCTION ENCOUNTERED.

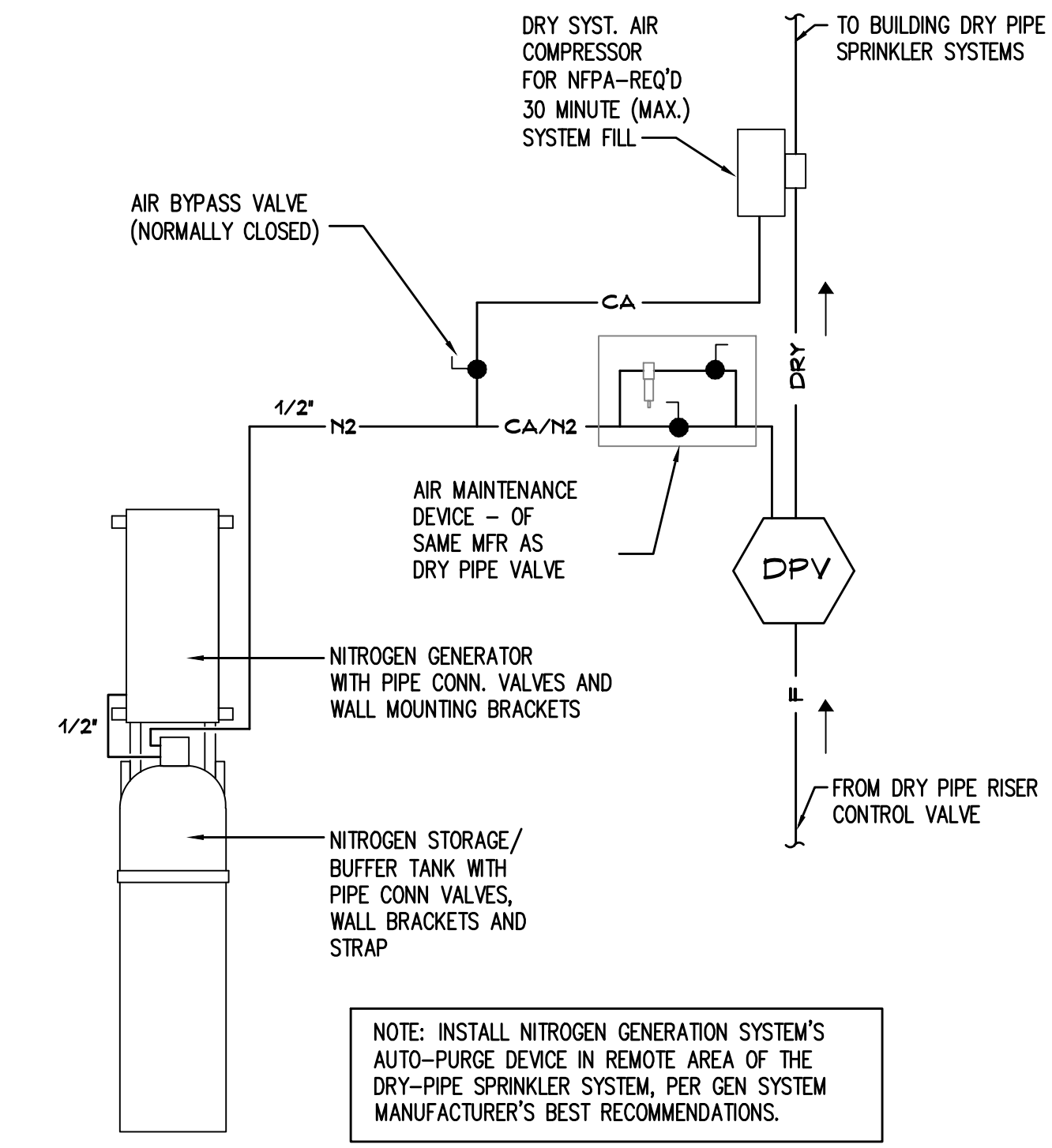
SECOND FLOOR (DRY SYSTEM):
 OFFICES, MULTI-PURPOSE ROOM, TOILET ROOM AND PUBLIC ACCESS AREAS (NOT INCLUDING STORAGE AREAS) - INSTALL A HYDRAULICALLY BALANCED DRY SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER THE MOST REMOTE AREA UP TO A MAXIMUM OF 1950 SQUARE FOOT AREA WITH A 100 GPM ALLOWANCE FOR HOSE STREAMS. PROVIDE DRY RECESSED PENDENT OR DRY SIDEWALL SPRINKLER HEADS. SPRINKLER HEAD SPACING SHALL BE ACCORDING TO NFPA 13 FOR THE TYPE OF CONSTRUCTION ENCOUNTERED.

MECHANICAL CLOSET, KITCHEN; INSTALL A HYDRAULICALLY BALANCED DRY SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER THE MOST REMOTE AREA UP TO A MAXIMUM OF 1950 SQUARE FOOT AREA WITH A 250 GPM ALLOWANCE FOR HOSE STREAMS. PROVIDE DRY RECESSED PENDENT OR DRY SIDEWALL SPRINKLER HEADS. SPRINKLER HEAD SPACING SHALL BE ACCORDING TO NFPA 13 FOR THE TYPE OF CONSTRUCTION ENCOUNTERED.

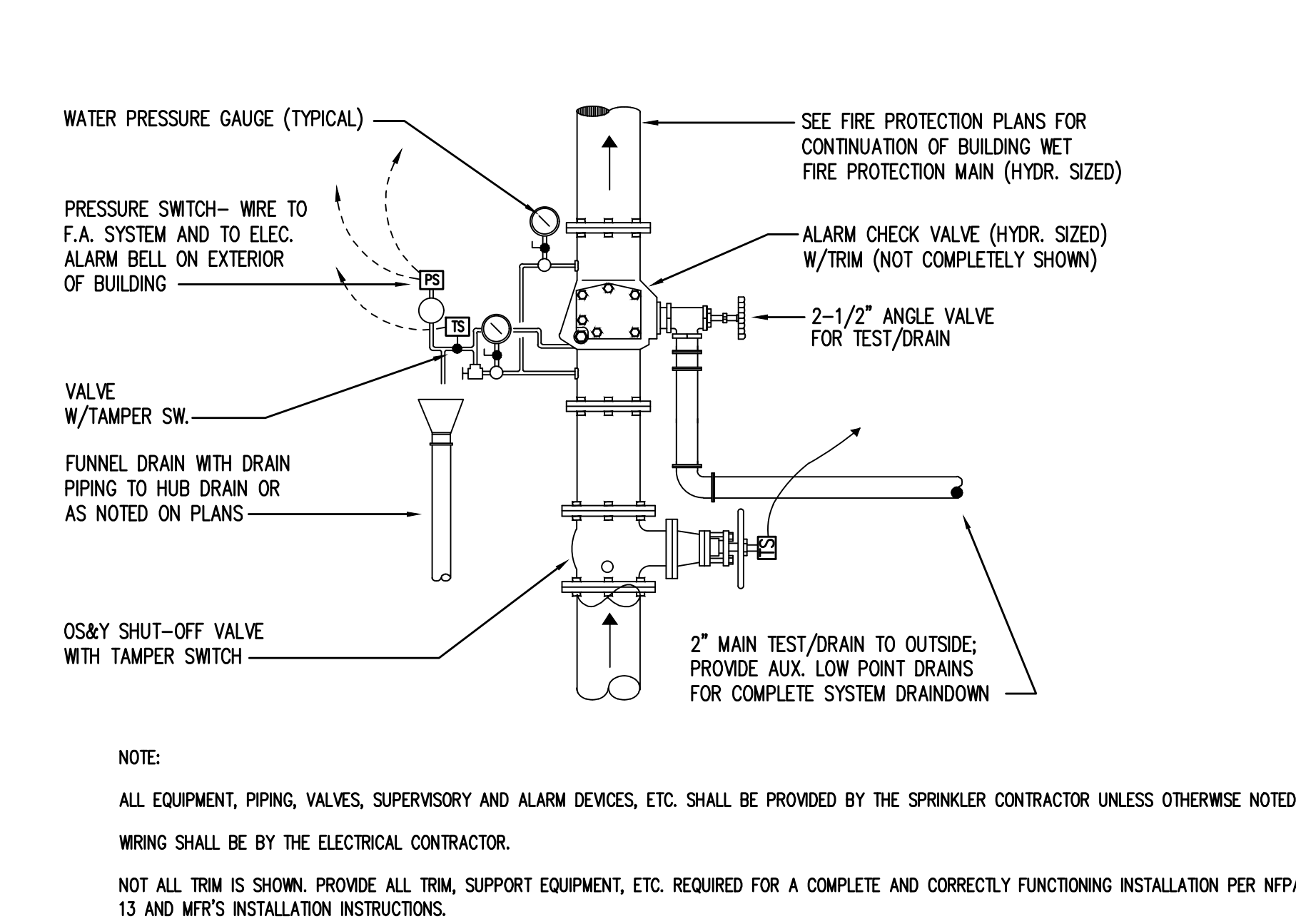
STORAGE AREAS; INSTALL A HYDRAULICALLY BALANCED DRY SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.20 GPM PER SQUARE FOOT OVER THE MOST REMOTE AREA UP TO A MAXIMUM OF 1950 SQUARE FOOT AREA WITH A 250 GPM ALLOWANCE FOR HOSE STREAMS. PROVIDE UPRIGHT SPRINKLER HEADS. SPRINKLER HEAD SPACING SHALL BE ACCORDING TO THE REQUIREMENTS OF NFPA 13, TABLE 8.6.2.2.1(f) FOR UNOCCUPIED ATTICS HAVING COMBUSTIBLE WOOD JOIST OR WOOD TRUSS CONSTRUCTION WITH MEMBERS LESS THAN 3 FEET ON CENTER WITH SLOPES HAVING A PITCH OF 4 IN 12 OR GREATER, AND FOR MINIMUM RESIDUAL PRESSURE REQUIREMENT (APPROXIMATELY 7 PSI OR 0.48 BAR) AT THE SPRINKLER HEAD.

2ND FLOOR ATTIC SPACES; INSTALL A HYDRAULICALLY BALANCED DRY SPRINKLER SYSTEM TO PROVIDE A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER THE MOST REMOTE AREA UP TO A MAXIMUM OF 1950 SQUARE FOOT AREA WITH A 100 GPM ALLOWANCE FOR HOSE STREAMS. PROVIDE UPRIGHT SPRINKLER HEADS. SPRINKLER HEAD SPACING; PER NFPA 13, TABLE 8.6.2.2.1(f) FOR UNOCCUPIED ATTICS HAVING COMBUSTIBLE WOOD JOIST OR WOOD TRUSS CONSTRUCTION WITH MEMBERS LESS THAN 3 FEET ON CENTER WITH SLOPES HAVING A PITCH OF 4 IN 12 OR GREATER, AND FOR MINIMUM RESIDUAL PRESSURE REQUIREMENT (APPROXIMATELY 7 PSI OR 0.48 BAR) AT THE SPRINKLER HEAD.

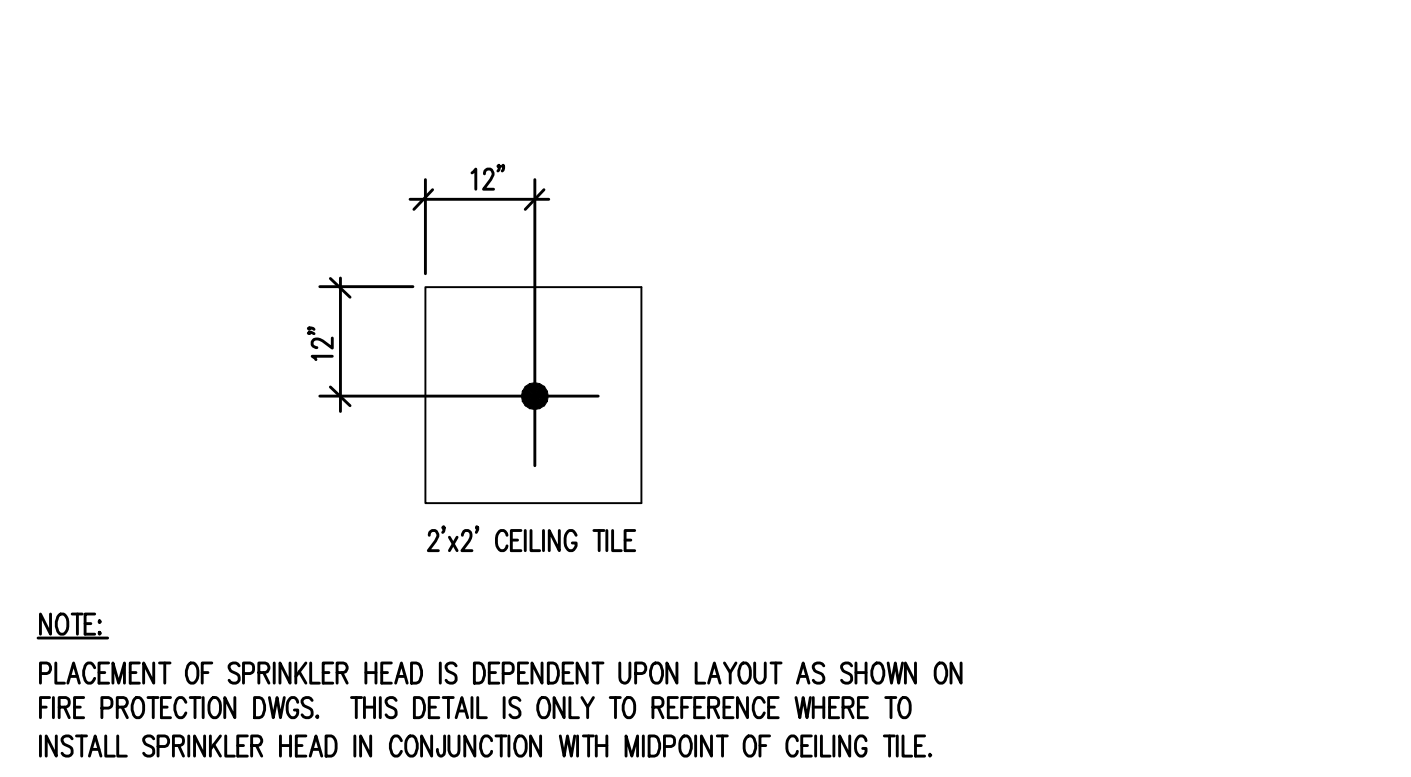
FIRE PROTECTION CONTRACTOR SHALL ARRANGE WITH THE WATER UTILITY FOR A NEW WATER



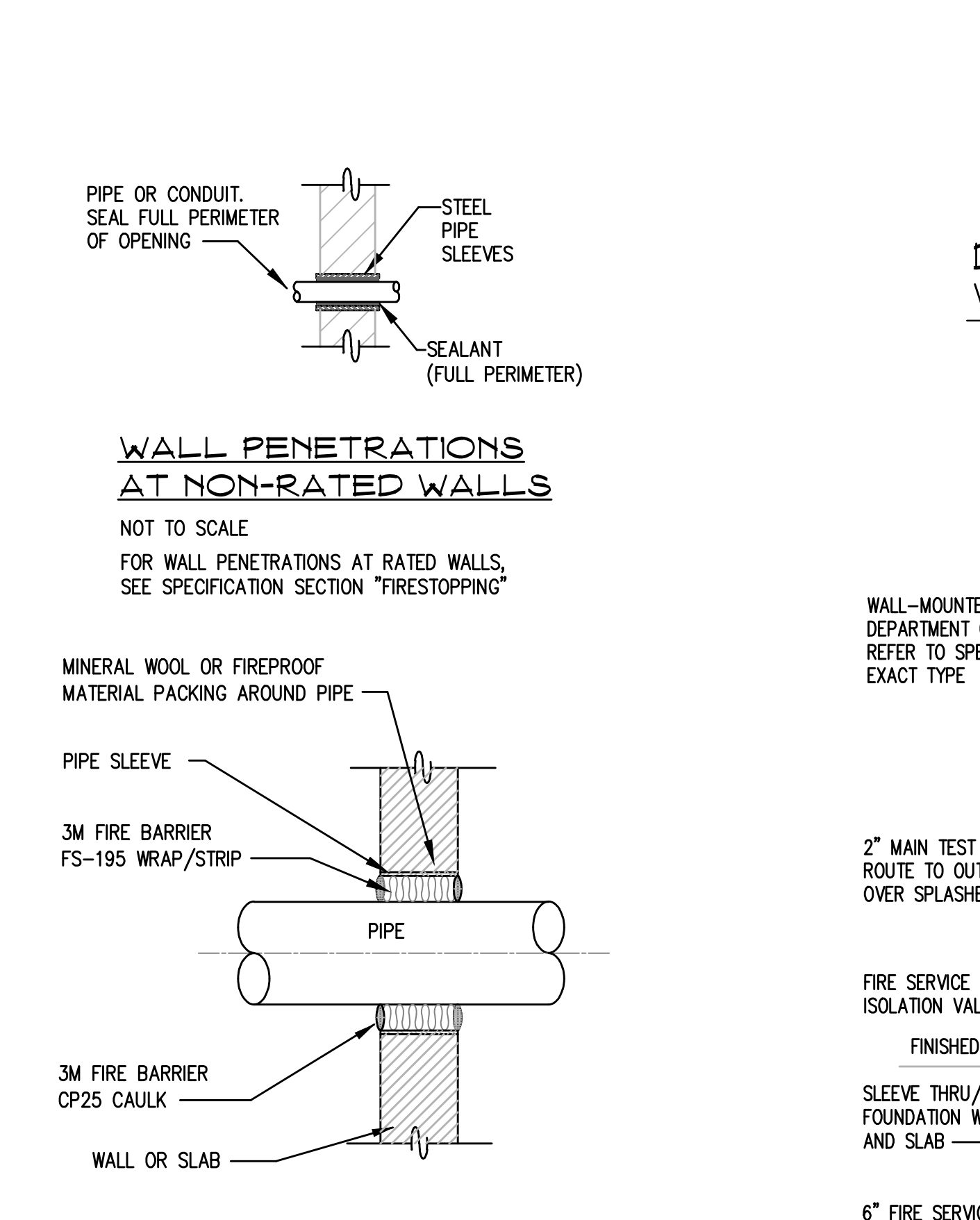
DETAIL OF DRY PIPE RISER AND DRY PIPE VALVE ASSEMBLY
SCALE: NONE



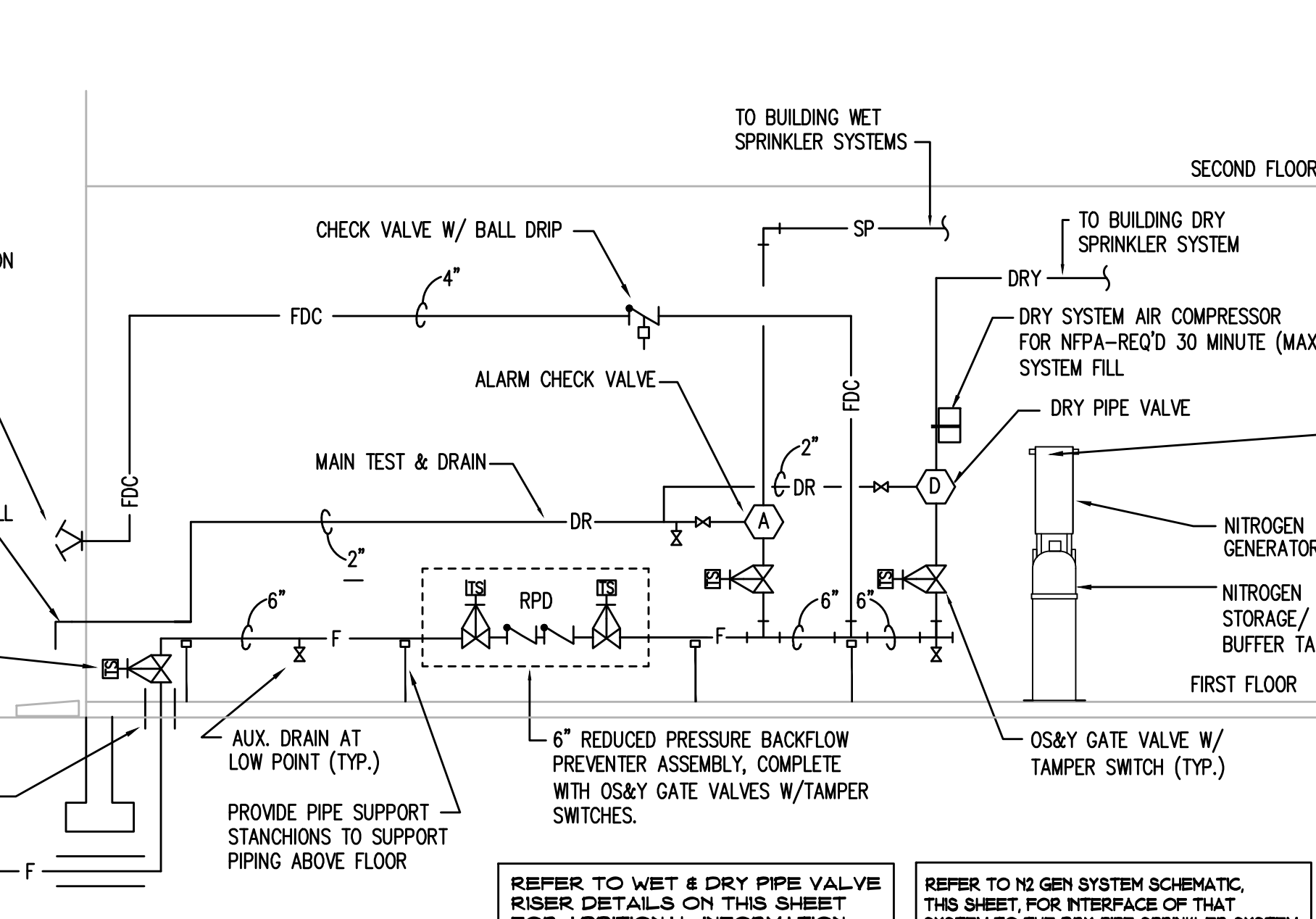
DETAIL OF SPRINKLER HEAD IN CEILING TILE AT MIDPOINT
SCALE: NONE



DETAIL OF FIREPROOFING OF PIPES PIERCING WALLS, SLABS, SHAFT WALLS
SCALE: NONE



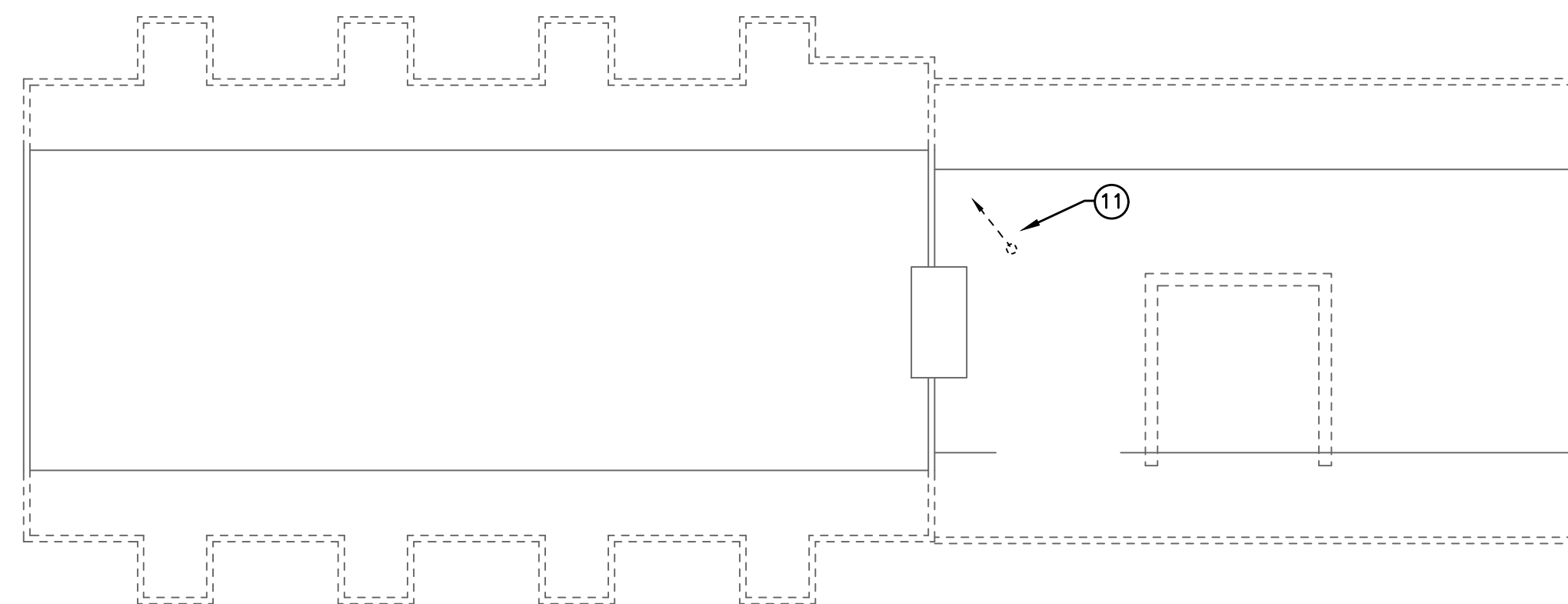
DETAIL OF FIRE SERVICE ENTRANCE AND DRY/WET PIPE RISER DIAGRAM
SCALE: NONE



DETAIL OF SPRINKLER CONNECTION FOR CENTER OF TILE INSTALLATION
SCALE: NONE

DETAIL OF SPRINKLER CONNECTION FOR CENTER OF TILE INSTALLATION
SCALE: NONE

FIRE PROTECTION CONTRACTOR SHALL ARRANGE WITH THE WATER UTILITY FOR A NEW WATER



3
PD1 ATTIC PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

DEMOLITION LEGEND

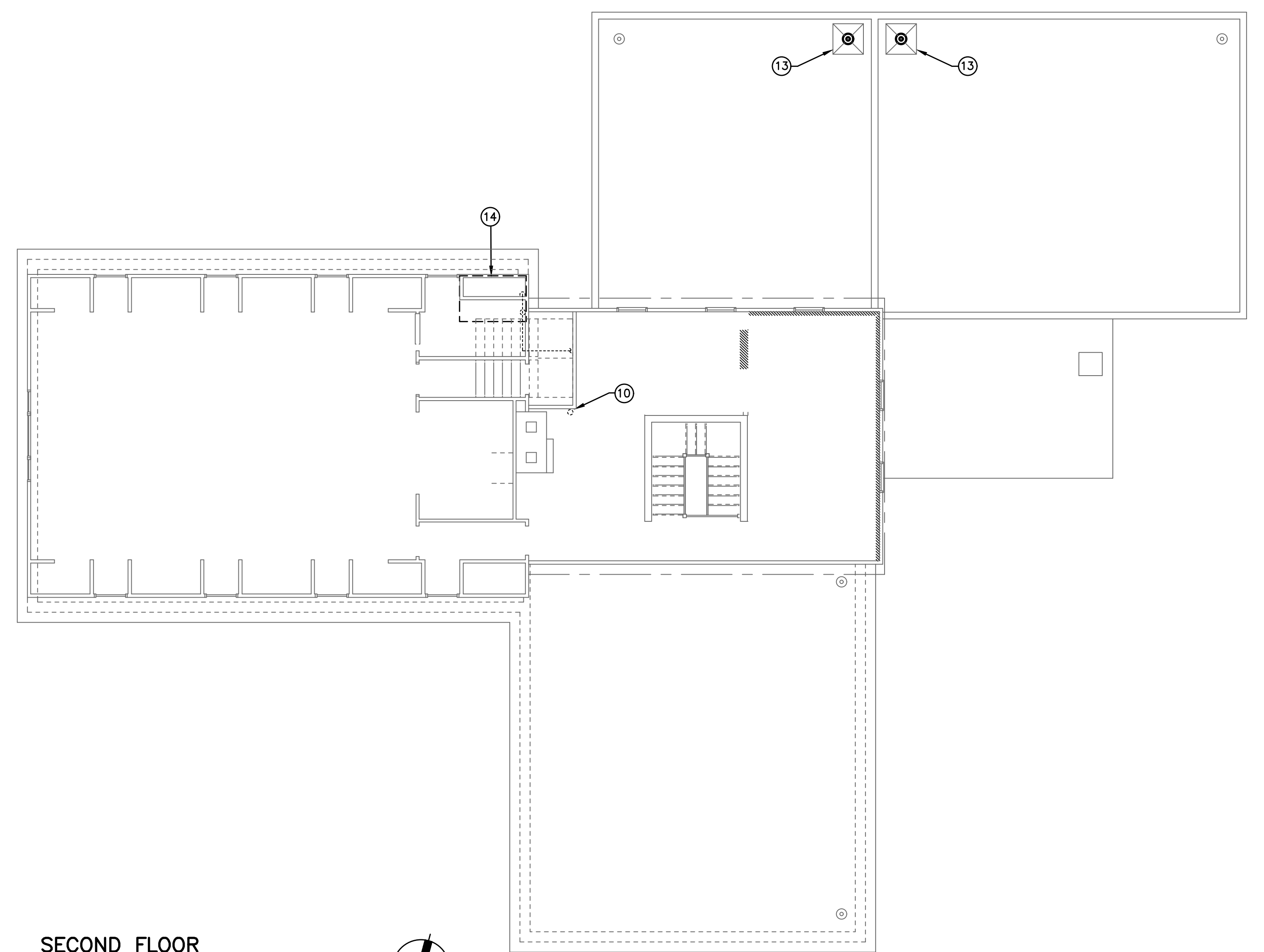
| SYMBOL | DESCRIPTION |
|--------|---|
| | EXISTING PIPING OR FIXTURES TO BE REMOVED |
| | EXISTING PIPING OR FIXTURES TO REMAIN |

GENERAL DEMOLITION NOTES

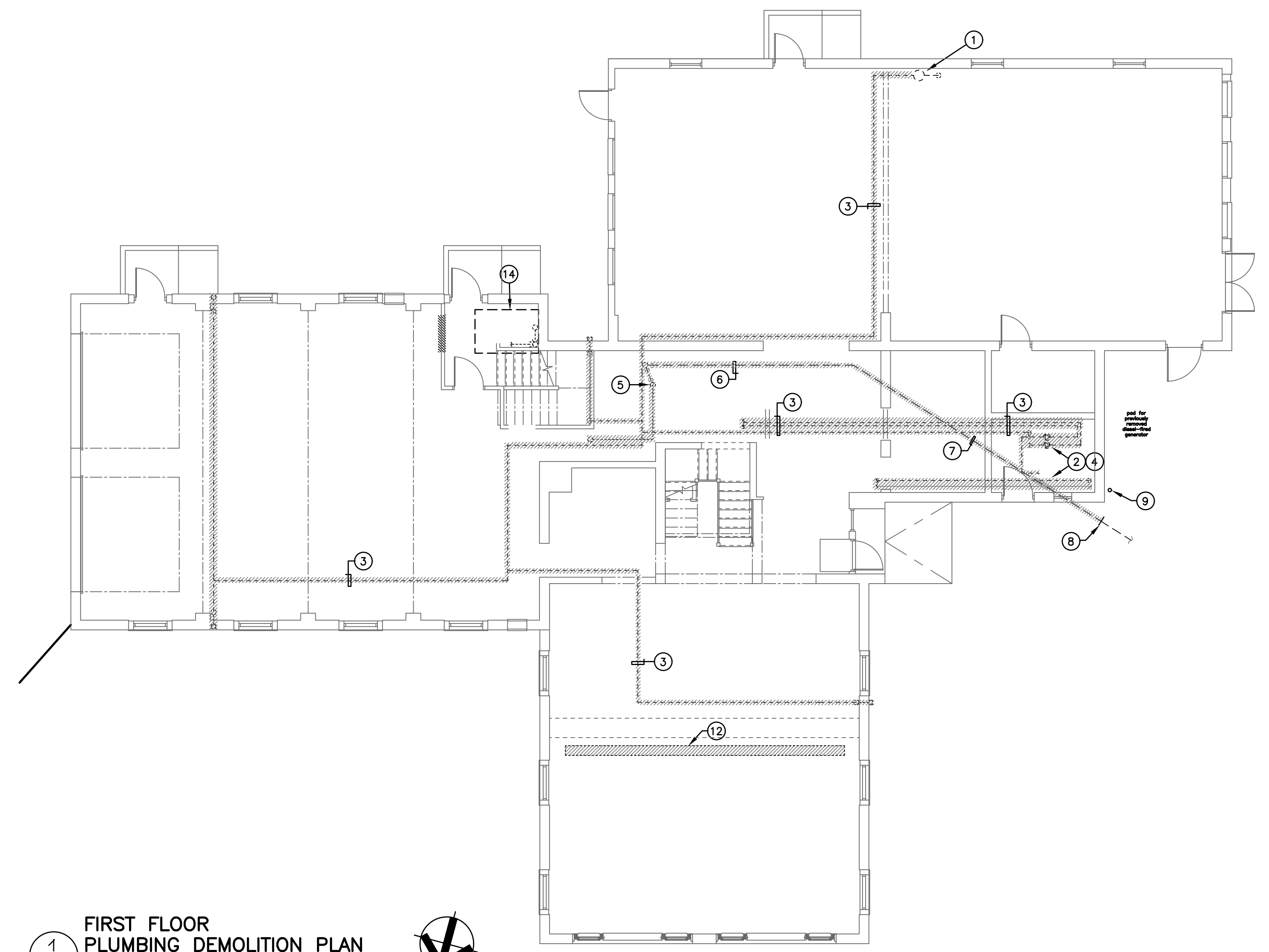
1. MAINTAIN SYSTEMS AND BUILDING SERVICES AS REQUIRED DURING CONSTRUCTION. REVIEW AND COORDINATE WITH G.C.'S APPROVED SEQUENCING PLAN.
2. PATCH, REPAIR AND SEAL ALL WALL AND ROOF OPENINGS RESULTING FROM MECHANICAL/ELECTRICAL DEMOLITION. RESTORE FINISHES WITH MATERIALS MATCHING EXISTING. PROVIDE PROTECTION FROM WEATHER DURING CONSTRUCTION.
3. ENSURE THAT POWER IS SECURED OFF PRIOR TO COMMENCING EQUIPMENT REMOVAL. SECURE POWER BACK TO PANEL FOR EQUIPMENT BEING REMOVED.
4. PROVIDE TEMPORARY CAPS OR COVERS FOR ALL OPENED PIPE, DUCT AND CONDUIT TO PREVENT INTRODUCTION OF FOREIGN MATERIAL.
5. ALL WASTE MATERIALS AND EQUIPMENT SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
6. THE DEMOLITION NOTES ARE FOR DESCRIPTIVE GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL ITEMS INDICATED AND/OR NOTED ON THE DRAWINGS. INCLUSION OF THESE EXISTING CONDITIONS HEREON SHALL IN NO WAY ALLEVIATE THE CONTRACTOR(S) OF HIS/HER RESPONSIBILITY TO VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS.
7. THE CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS AND MATERIALS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES MINIMUM ONE WEEK PRIOR TO BID OPENING.
8. LOCATION OF ALL EXISTING PIPING, ETC. IS APPROXIMATE. THE PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND EXTENT OF WORK IN THE FIELD.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL TRADES.
10. THE EXISTING CONDITIONS REPRESENTED HEREON ARE BASED ON LYONS, MATHER, LECHNER ARCHITECTS CONSTRUCTION DRAWING P-5 DATED FEBRUARY 10, 1971 AND ARE INCLUDED FOR CONTRACTORS REFERENCE ONLY. ACTUAL LOCATION OF PIPING AND UTILITIES MAY VARY IN FIELD. PIPING CONTRACTOR SHALL VERIFY LOCATIONS IN FIELD AND MAKE ALLOWANCE IN BID FOR LOCATIONS AND ARRANGEMENTS OTHER THAN SHOWN.
11. NO WORK SHALL BE LEFT INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION.
12. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND PIPING SYSTEM, CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON.
13. COORDINATE SHUTDOWN OF EXISTING SERVICES AND TAPPING OF EXISTING PIPING WITH OWNER'S MAINTENANCE PERSONNEL. NO WORK SHALL TAKE PLACE UNTIL DOING SO.

DEMOLITION NOTES

1. EXISTING DOMESTIC WATER SERVICE ENTRANCE THROUGH FLOOR SLAB, AND WATER METER INSTALLATION TO REMAIN. FIELD VERIFY IF METER MUST BE RAISED TO ACCOMMODATE NEW HIGHER FLOOR SLAB; IF VERIFIED RAISING IS NECESSARY, COORDINATE METER-RAISING WITH THE WATER UTILITY (REGIONAL WATER AUTHORITY).
2. DISCONNECT, REMOVE AND DISPOSE OF EXISTING DOMESTIC HOT WATER CIRCULATORS AND ASSOCIATED PLUMBING SPECIALTIES (DOMESTIC HOT WATER IS PRESENTLY GENERATED VIA TANKLESS HEAT EXCHANGER IN THE EXISTING SPACE-HEATING BOILER - REFER TO MECHANICAL DEMOLITION PLANS)
3. DISCONNECT, REMOVE AND DISPOSE OF ALL EXISTING DOMESTIC WATER PIPING AND ASSOCIATED INSULATION AND HANGERS, WALL HYDRANT, ETC. DOWNSTREAM OF WATER METER.
4. DISCONNECT, REMOVE AND DISPOSE OF EXISTING DOMESTIC HOT WATER EXPANSION TANK AND ASSOCIATED SPECIALTIES
5. DISCONNECT AND REMOVE 4" EXISTING SANITARY VENT RISER, FROM BELOW GROUND FLOOR SLAB TO JUST BELOW EX. VTR.
6. ALL EXISTING SAN/WASTE/VENT PIPING UNDERSLAB SHALL BE DISCONNECTED AND ABANDONED (OR REMOVED IF IN CONFLICT WITH NEW WORK). CUT AND CAP ALL OPEN PIPE ENDS SO AS NOT TO BE EXPOSED AFTER PROJECT COMPLETION. (PROVIDE ALL NEW UNDERSLAB SAN/WASTE/VENT PIPING FOR NEW WORK - REFER TO DRAWING P1.)
7. NEW UNDERSLAB SAN MAIN TO BE INSTALLED HERE IN APPROX SAME ELEVATION AND ROUTING AS EXISTING; CUT SLAB, EXCAVATE AND REMOVE EX. SAN MAIN AS REQUIRED TO INSTALL NEW UNDERSLAB SAN MAIN - REFER TO DRAWING P1.
8. EXISTING SITE SANITARY DOWNSTREAM OF APPROXIMATELY HERE SHALL REMAIN; VERIFY EX. INVERT AT BLDG EXIT AND COORDINATE PITCH AND ELEVATION OF NEW UNDERSLAB SAN PIPING WITHIN BUILDING TO MAKE PITCH TO CONNECT TO EXISTING INVERT.
9. AREA OF EXISTING GAS SERVICE RISER WITH METER AND REGULATOR (LABELS INDICATE PSI AFTER METER/REGULATOR). CONFIRM AVAILABLE BUILDING DISTRIBUTION PRESSURE. REFER TO DWG P1.
10. REMOVE EXISTING 4" VENT UP & DN THROUGH 2ND FLOOR TO BASE OF VENT THRU ROOF.
11. EXISTING 4" VENT THROUGH ROOF TO REMAIN.
12. EXISTING TRENCH DRAIN TO BE FILLED IN. VERIFY ROUTING OF WASTE PIPING, DISCONNECT AND CAP ALL OPEN PIPE ENDS SO AS NOT TO (1) CONFLICT WITH OR BE EXPOSED AFTER PROJECT COMPLETION, AND (2) LEAVE DEAD END PIPING.
13. EXISTING ROOF DRAIN WITH INTERIOR LEADER DISCHARGING TO OUTSIDE JUST ABOVE GRADE. DISCONNECT AND REMOVE ROOF DRAIN. REFER TO DWG P1 FOR NEW WORK.
14. AREA OF EXISTING ROUGH-IN FOR 2ND FLOOR FIXTURES. DISCONNECT AND REMOVE ALL PIPING PROVISIONS FOR FUTURE FIXTURES, INCLUDING SAN DROP IN CORNER OF 1ST FLOOR CLOSET IN STAIR ENCLOSURE. CUT/CAP SAN CONTINUATION UNDERSLAB. DO NOT CONNECT TO NEW WORK.



2
PD1 SECOND FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH



1
PD1 FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

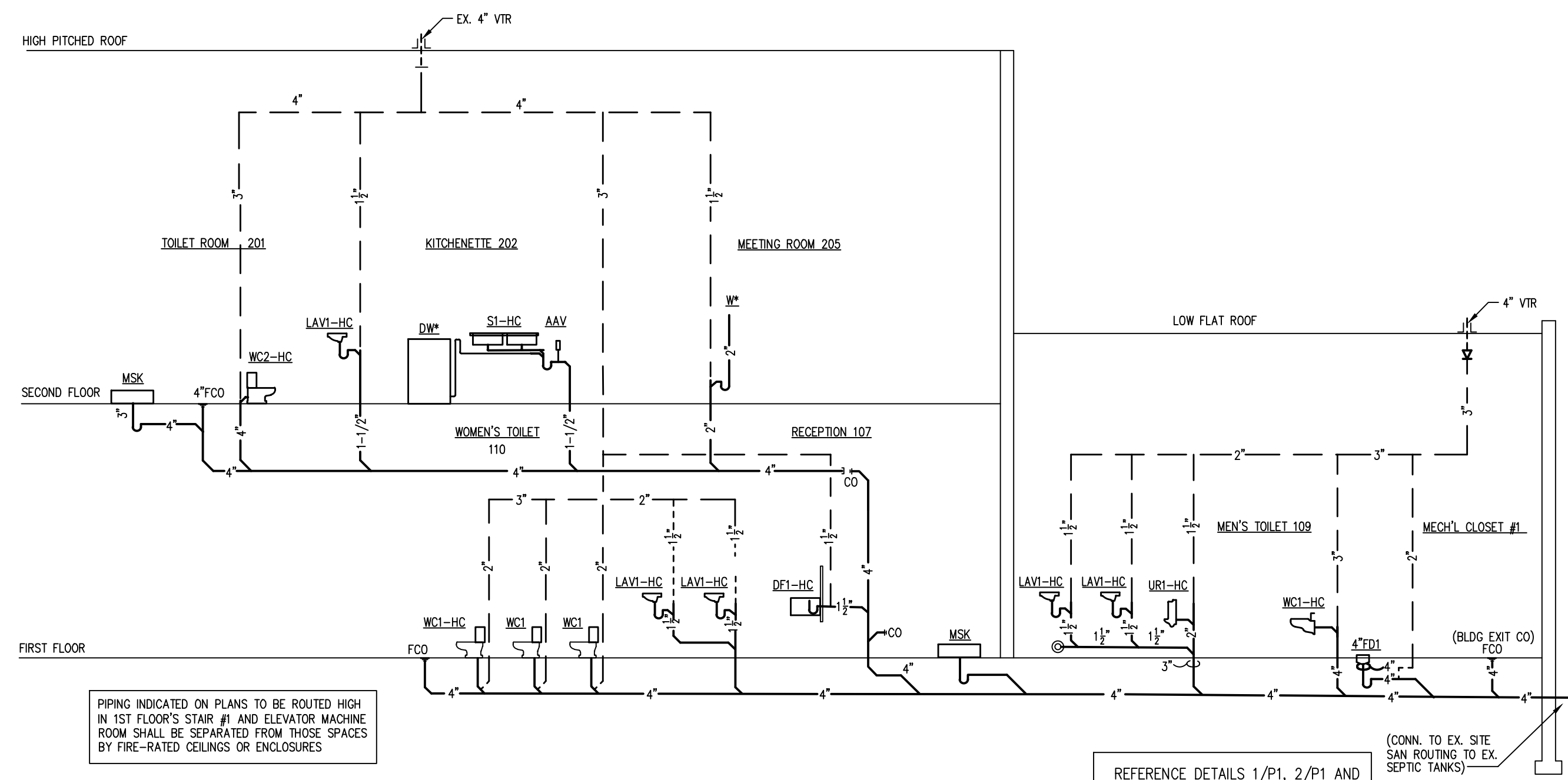
Project Title:
Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

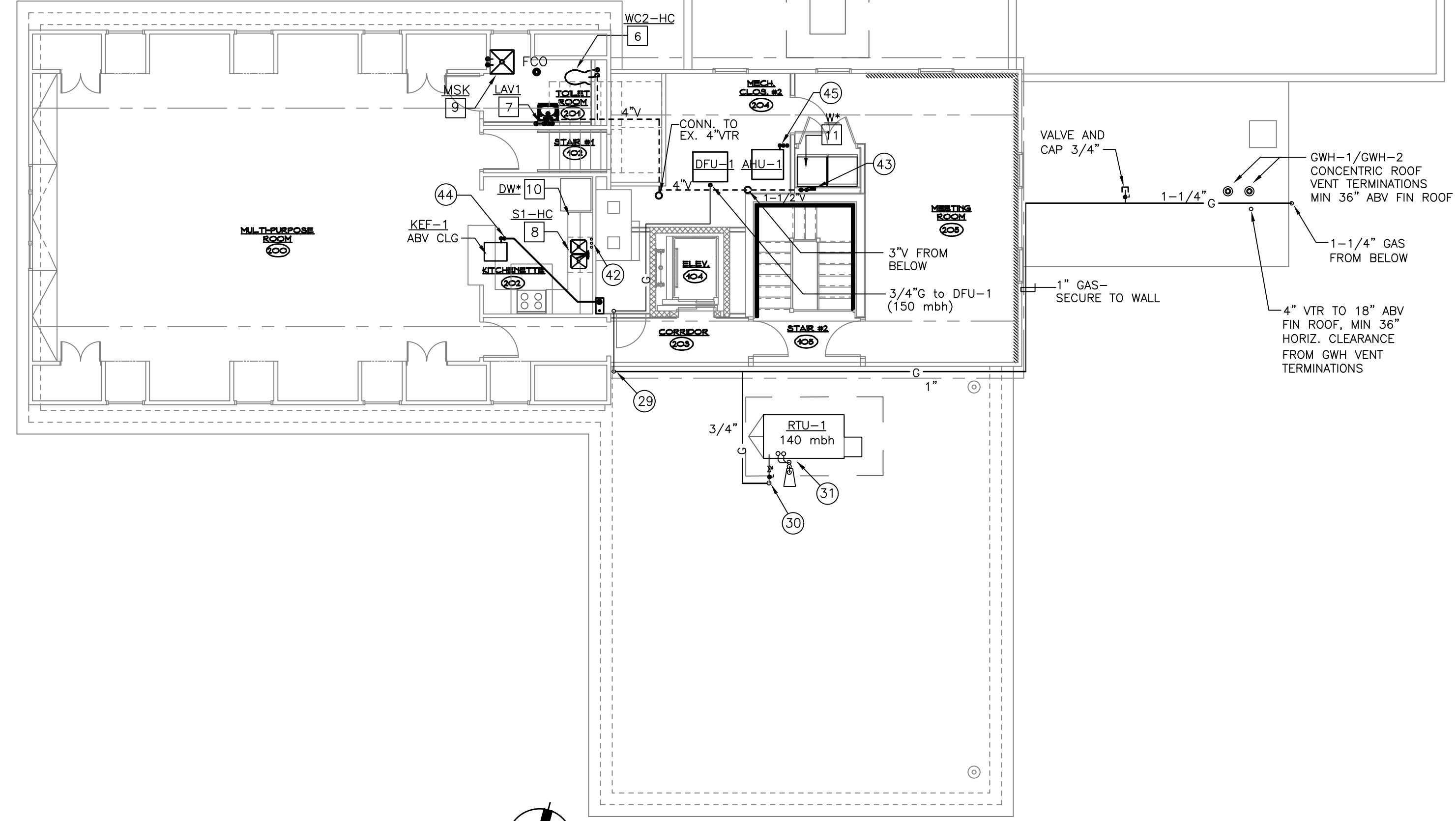
| Revision | Description | Date | Revised By |
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Drawing Title:
PLUMBING DEMOLITION PLANS

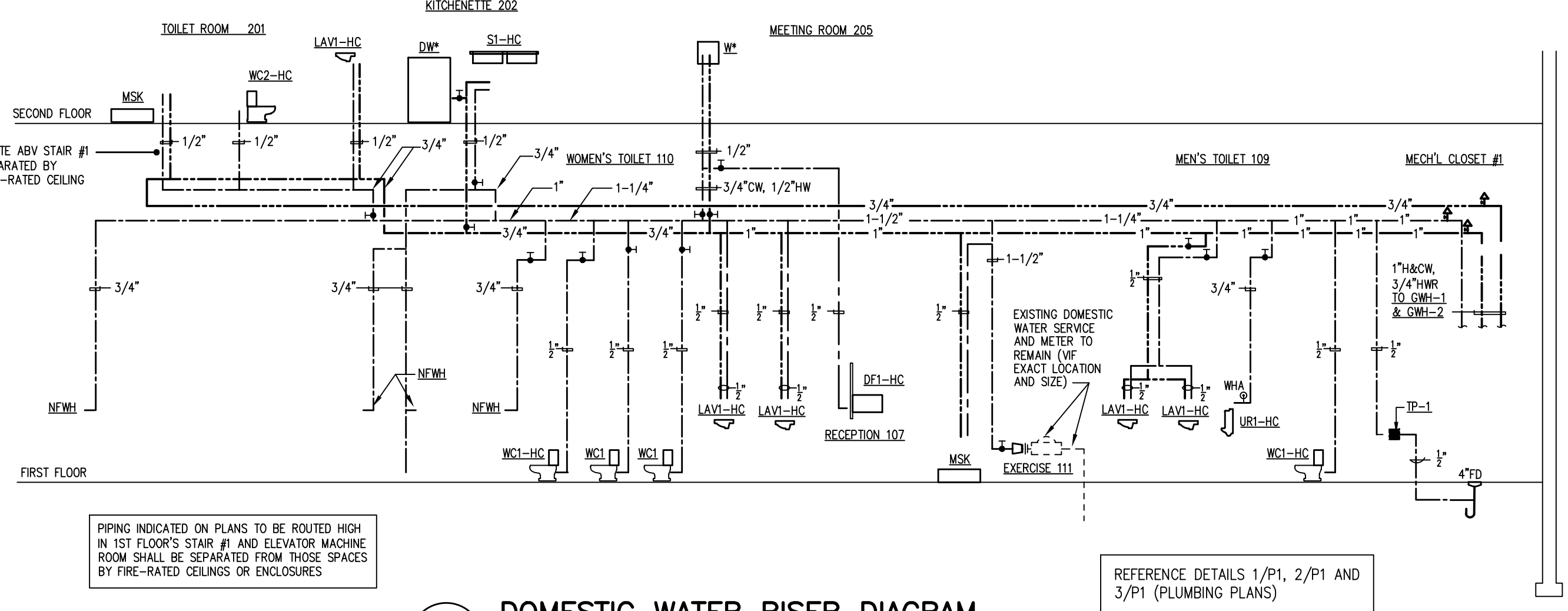
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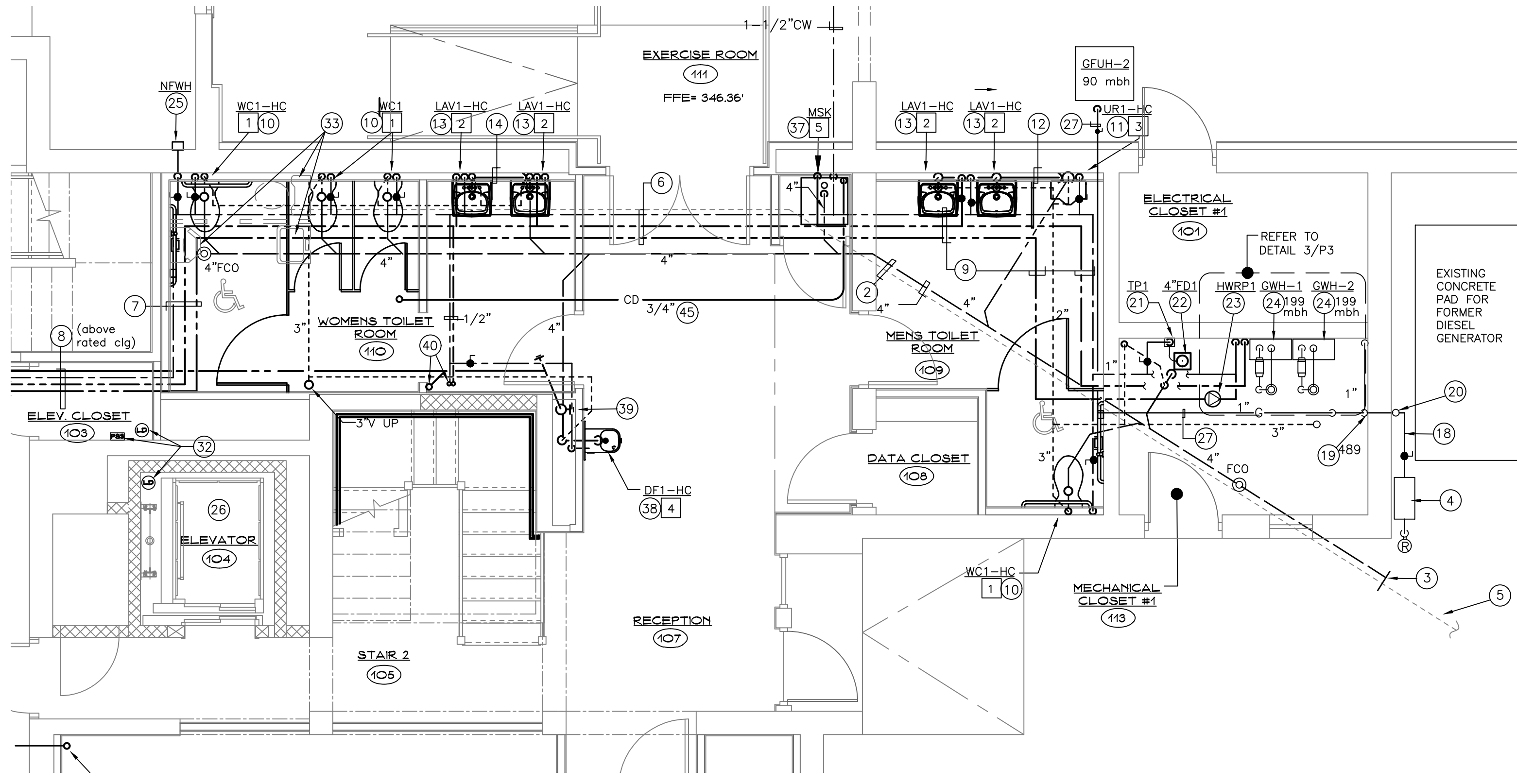
5 SANITARY/WASTE/VENT RISER DIAGRAM
SCALE: NONE



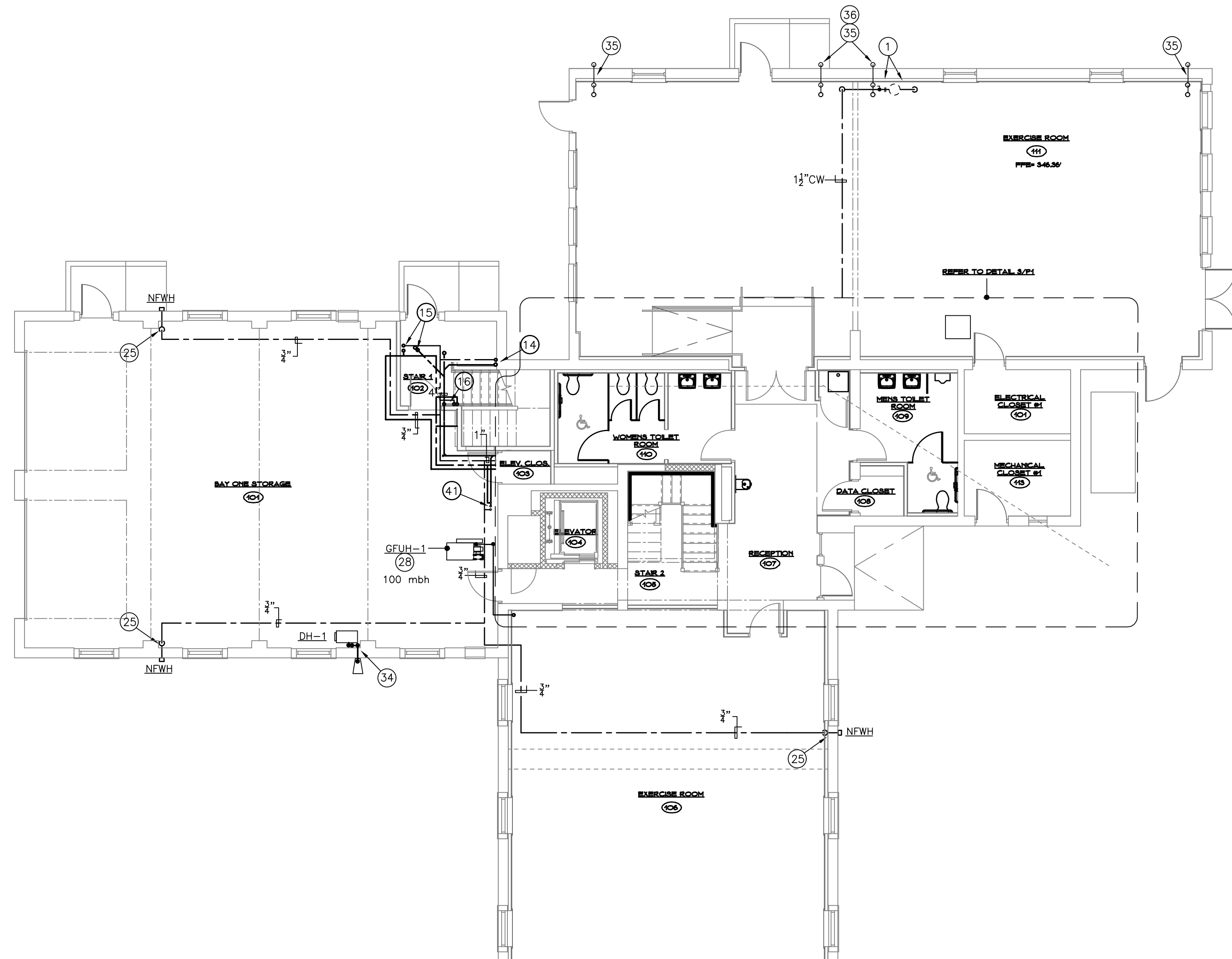
2 SECOND FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



4 DOMESTIC WATER RISER DIAGRAM
SCALE: NONE



3 ENLARGED PARTIAL FIRST FLOOR PLUMBING PLAN
SCALE: 1/4" = 1'-0"



1 FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"

KEY PLAN NOTES

- 1 EXISTING DOMESTIC WATER SERVICE ENTRANCE AND METER TO REMAIN. VERIFY EXACT LOCATION IN FIELD. CONNECT TO METER ASSEMBLY DISCHARGE, PROVIDE NEW SHUTOFF, INCREASE TO 1 1/2" AND ROUTE ALL NEW CW IN BUILDING.
- 2 ALL UNDERSLAB SAN/WASTE IN BUILDING REQUIRED TO BE ACTIVE AFTER RENOVATION SHALL BE NEW. DISUSED UNDERSLAB SAN/WASTE SHALL BE DISCONNECTED, CAPPED AND ABANDONED. (REMOVE ANY DISUSED PIPING WHICH CONFLICTS WITH NEW WORK.)
- 3 ALL UNDERSLAB SAN/WASTE IN BUILDING REQUIRED TO BE ACTIVE AFTER RENOVATION SHALL BE NEW. PROVIDE NEW BUILDING SANI EXIT AND CONNECT APPROXIMATELY HERE TO SITE SANITARY ROUTING TO EXISTING SITE SEWAGE DISPOSAL SYSTEM. COORDINATE SAN ROUTING CLOSELY WITH GAS UTILITY'S GAS SERVICE/METER INSTALLATION REQMTS.
- 4 EXISTING RECENTLY INSTALLED GAS SERVICE METER/REGULATOR INSTALLATION. VERIFY FIELD-INDICATED 2 PSI REGULATOR DISCHARGE/METERING PRESSURE WITH GAS CO.
- 5 APPROX ROUTING OF EXISTING BUILDING SANITARY EXIT TO EXISTING SEPTIC TANKS. VERIFY EXACT SIZE AND LOCATION OF SAN EXIT, LEAVING INVERT, AND ROUTING DIRECTION IN THE FIELD, AND ADJUST NEW UNDERSLAB SAN/WASTE PIPING (INCLUDING STARTING INVERT) TO CONNECT TO SAME.
- 6 1 1/2" CW, 1" HW, 3" HW; ROUTE IN MECH'L SOFFIT WITH DUCTWORK (REFER TO ARCH'L AND MECH'L PLANS)
- 7 1" CW, 3" HW, 3" HW
- 8 OVERHEAD 3" HW, 3" HW, 1" CW AND 4" SAN MAINS. PROVIDE HIGHEST POSSIBLE SAN MAIN ROUTING ELEVATIONS REQUIRED TO SERVE ALL 2ND FLOOR FIXTURE INSTALLATIONS INDICATED ON THE DWGS. REFER TO DETAIL 1/P1 FOR CONTINUATION.
- 9 1 1/2" CW, 3" HW, 3" HW
- 10 3" CW DROP, 2" V RISE IN WALL; 4" SAN DN (AT 1ST FLR MEN'S ROOM WC1-HC, PROVIDE 3" V IN LIEU OF 2" FOR MAIN BUILDING VENT.)
- 11 3" CW DROP, 1 1/2" V RISE IN WALL; 2" SAN DN
- 12 COLLECT LAV WASTES IN WALL WITH 1 1/2" CONN. INTO 2" URINAL SAN DN
- 13 1 1/2" HW&CW DROPS IN WALL; 3" HW&CW TO EACH LAV; 1 1/2" W/TRAP (TYP. EACH LAV)
- 14 COLLECT LAV WASTES IN WALL TO 2" W DOWN
- 15 3" H&CW, 3" W UP (MSK)
- 16 3" H&CW, 1-1/2" W UP (LAV)
- 17 1" CW, 4" SAN UP (WC)
- 18 1-1/2" W FROM SERVICE METER/REGULATOR (CONTRACTOR'S WORK BEGINS AT DISCHARGE OF GAS CO'S SERVICE METER/REGULATOR INSTALLATION). TOTAL CONN. BUILDING LOAD: 789.8 MBH. NOTIFY GAS UTILITY OF 200 MBH ALLOWANCE FOR ALTERNATE WORK/FUTURE BLDG CONN. LOAD FOR USE IN SERVICE METER SIZING
- 19 1-1/4" GAS WITH SHUTOFF VALVE. ROUTE INTO MECH'L CLOSET #1 AND RISE; RUN HIGH AS POSSIBLE. 399.8 MBH + 40 MBH FUTURE.
- 20 1-1/4" GAS WITH SHUTOFF VALVE. RISE ON WALL TO ROUTE ON ROOF; 390 MBH + 160 MBH ALTERNATE/FUTURE.
- 21 1" CW DROP TO TP1 AT (MIN.) 24" AFF ON WALL; 3" PRIMER FEED BELOW SLAB FROM PRIMER TO FD PRIMER CONN.
- 22 4" W WITH TRAP AND 2" V FROM FD1; 2" V RISE IN CORNER
- 23 DOMESTIC HOT WATER CIRCULATION PUMP; REFER TO SPECS ON DWG P2 AND DETAILS ON DWG P3/SCHEDULES AND DETAIL 3/P3; 3" CONNECTIONS
- 24 3" CW, 3" GAS TO, 3" HW FROM GWH (TANKLESS CONDENSING GAS-FIRED DOMESTIC WATER HEATER) - TYPICAL OF 2; REFER TO SPECS ON DWG P2 AND DETAILS ON DWG P3
- 25 3/4" CW DROP TO NON-FREEZE WALL HYDRANT (COMPACT LENGTH), AT APPROX 24" AFF
- 26 HYDRAULIC "LULA" ELEVATOR IN SHAFT WITH 14" PIT RECESS. PROVIDE OIL DETECTION/ALERT SYSTEM; REFER TO SPECS - NOTE 32.
- 27 3" VALVED GAS TO BASE BID GFUH-2 (90 MBH). IF BAY 3 ALTERNATE IS ACCEPTED DELETE WORK ASSOCIATED WITH GFUH-2 AND ADD WORK ASSOCIATED WITH RTU-2.
- 28 3" GAS DROP TO GFUH-1, WITH SHUTOFF, DIRTLEG AND VENT LIMITING PRESSURE REGULATOR.
- 29 3" GAS DN THRU ROOF IN WEATHERTIGHT ROOF PENETRATION, AND 3" GAS UP ON PITCHED ROOF TO CROSS RATED STAIR AREA; DROP INTO 2ND FLR MECH'L CLOSET.
- 30 3/4" GAS TO RTU, WITH SHUTOFF AND LINE PRESSURE REGULATOR; TERMINATE REGULATOR VENT WITH OPENENDED DOWNTURNED ELBOW.
- 31 1" CONDENSATE FROM RTU (COLLECT HEAT EXCHANGER AND COOLING COIL CONDENSATES); PROVIDE TRAP WITH DEPTH AT LEAST THE MINIMUM RECOMMENDED BY RTU MFR; ROUTE TO OPEN OVER ROOF (PROVIDE SPLASHBLOCK).
- 32 DORLEN PRODUCTS OIL-ALERT LIQUID LEAK DETECTION SYSTEM MODEL QA-5, WITH (2) LIQUID DETECTORS (LD), PS-3 POWER SUPPLY, LOCAL AUDIBLE ALARM, AND RELAY CONTACTS FOR REMOTE ALARM; CONNECT TO BUILDING ALARM/SECURITY SYSTEM.
- 33 APPROX LOCATIONS OF PREVIOUSLY DEMOLISHED PLUMBING FIXTURES - FOR DEMOLITION COORDINATION
- 34 3/4" CONDENSATE FROM DEHUMIDIFIER DH-1; PROVIDE TRAP WITH DEPTH AT LEAST THE MINIMUM RECOMMENDED BY DH-1 MFR; ROUTE DOWN ON COLUMN AND THROUGH EXTERIOR WALL AT 24" PROVIDE AND DISCHARGE OVER CONCRETE SPLASHBLOCK.
- 35 EXISTING INTERIOR ROOF DRAIN LEADER IS ROUTED DOWN TO EXIT THRU WALL AT APPROX 12" AFF, AND LEFT OPENENDED ABOVE GRADE. VIF PIPE SIZE
- 36 REMOVE EXISTING ROOF DRAIN AND PROVIDE ENTIRELY NEW EMERGENCY/OVERFLOW ROOF DRAIN WITH OUTLET SIZED TO MATCH EXISTING INTERIOR ROOF DRAIN LEADER (ESTIMATED 4"). CONNECT ROOF DRAIN INTO EXISTING INTERIOR ROOF DRAIN LEADER; REMOVE ROOF DRAIN LEADER BACK TO 3 FT AFF; ROUTE THROUGH WALL AND PROVIDE DOWNSPOUT NOZZLE WITH STAINLESS STEEL BIRDSCREEN, AND EMERGENCY SIGNAGE ABOVE. PATCH DISUSED WALL PENETRATION TO CLOSELY MATCH EXISTING ADJACENT EXTERIOR WALL
- 37 1/2" H&CW DROPS, 3" W WITH TRAP, 4" W TO SAN MAIN
- 38 1/2" CW, 1-1/2" W ABV CEILING; 1-1/2" W IN CHASE TO 4" SAN STACK (DF1-HC)
- 39 4" SAN DROP IN CHASE TO BELOW SLAB, WITH WCO AT 18" AFF
- 40 1/2" H&CW, 2" W UP (CLOTHES WASHER)
- 41 1/2" H&CW, 1-1/2" W UP (S1-HC AND DW*)
- 42 1/2" H&CW, 1-1/2" W FROM BELOW, 1" H&CW TO SINK, 1" HW WITH SEPARATE SHUTOFF TO DW*; 1-1/2" DRAIN/TAILPIECE FOR EACH SINK COMPARTMENT, COLLECT TO SINGLE P-TRAP/CO; CONNECT DW WASTE TO COLLECTED SINK WASTE UPSTREAM OF TRAP; PROVIDE AWV DOWNSTREAM OF TRAP
- 43 1/2" H&CW FROM BELOW TO WALLBOX, 2" W FROM BELOW; PROVIDE 2" W STANDPIPE WITH TOP CONNECTED INTO WALLBOX. PROVIDE TRAP AND 1-1/2" W RISE FOR WASTE STANDPIPE
- 44 PROVIDE CARY CO. # 57W70N 5 GAL. HDPE CONTAINER WITH VENT/CAP AND 2" TOP INLET WITH SCREW CAP, ON FLOOR IN CLOSET. PROVIDE 3/4" DRAIN WITH TRAP FROM KEF-1 HOUSING DRAIN CONN. TO CONTAINER INLET (REMOVE SCREEN CAP.)
- 45 3/4" CD FROM 2ND FLR AHU-1, WITH TRAP (OF MINIMUM DEPTH RECOMMENDED BY AHU-1 MFR); ROUTE DOWN TO OPEN OVER 1ST FLOOR MSK, 6" ABOVE MSK FLOOR RM.

PLUMBING FIXTURE NOTES

- 1 PROVIDE ADA FLOOR MOUNTED, FLOOR OUTLET PRESSURE ASSIST TANK TYPE WATER CLOSET.
- 2 PROVIDE ADA WALL-MOUNTED LAVATORY FOR CONCEALED ARM SUPPORT, WITH FLOOR-MOUNTED WALL CARRIER.
- 3 PROVIDE ADA WALL MOUNTED FLUSH VALVE URINAL WITH FLOOR-MOUNTED WALL CARRIER.
- 4 PROVIDE ADA WALL-MOUNTED DRINKING FOUNTAIN AND WALL PLATE.
- 5 PROVIDE ADA FLOOR-MOUNTED MOP SERVICE SINK, WITH WALL-BRACED FAUCET AT 30" AFF.
- 6 PROVIDE ADA FLOOR-MOUNTED, BACK OUTLET PRESSURE ASSIST TANK TYPE WATER CLOSET.
- 7 PROVIDE ADA WALL-MOUNTED LAVATORY FOR CONCEALED ARM SUPPORT, WITH FLOOR-MOUNTED WALL CARRIER.
- 8 PROVIDE ADA COUNTER-MOUNTED SELF-RIMMING SINK.
- 9 PROVIDE FLOOR-MOUNTED MOP SERVICE SINK, WITH WALL-BRACED FAUCET AT 30" AFF.
- 10 RESIDENTIAL STYLE UNDERCOUNTER DISHWASHER (DW*); REFER TO ARCH'L DWGS AND SPEC DIVISION 11. PROVIDE HW SUPPLY FROM, AND WASTE TO ADJACENT SINK SERVICES
- 11 CLOTHES WASHER (W*); REFER TO ARCH'L DWGS AND SPEC DIVISION 11. PROVIDE WASHER WALL BOX WITH WASTE AND H&CW SUPPLIES WITH SHUTOFF AND HAMMER ARRESTORS.

Project Title:
Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525

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| Revision | Description | Date | Revised By |
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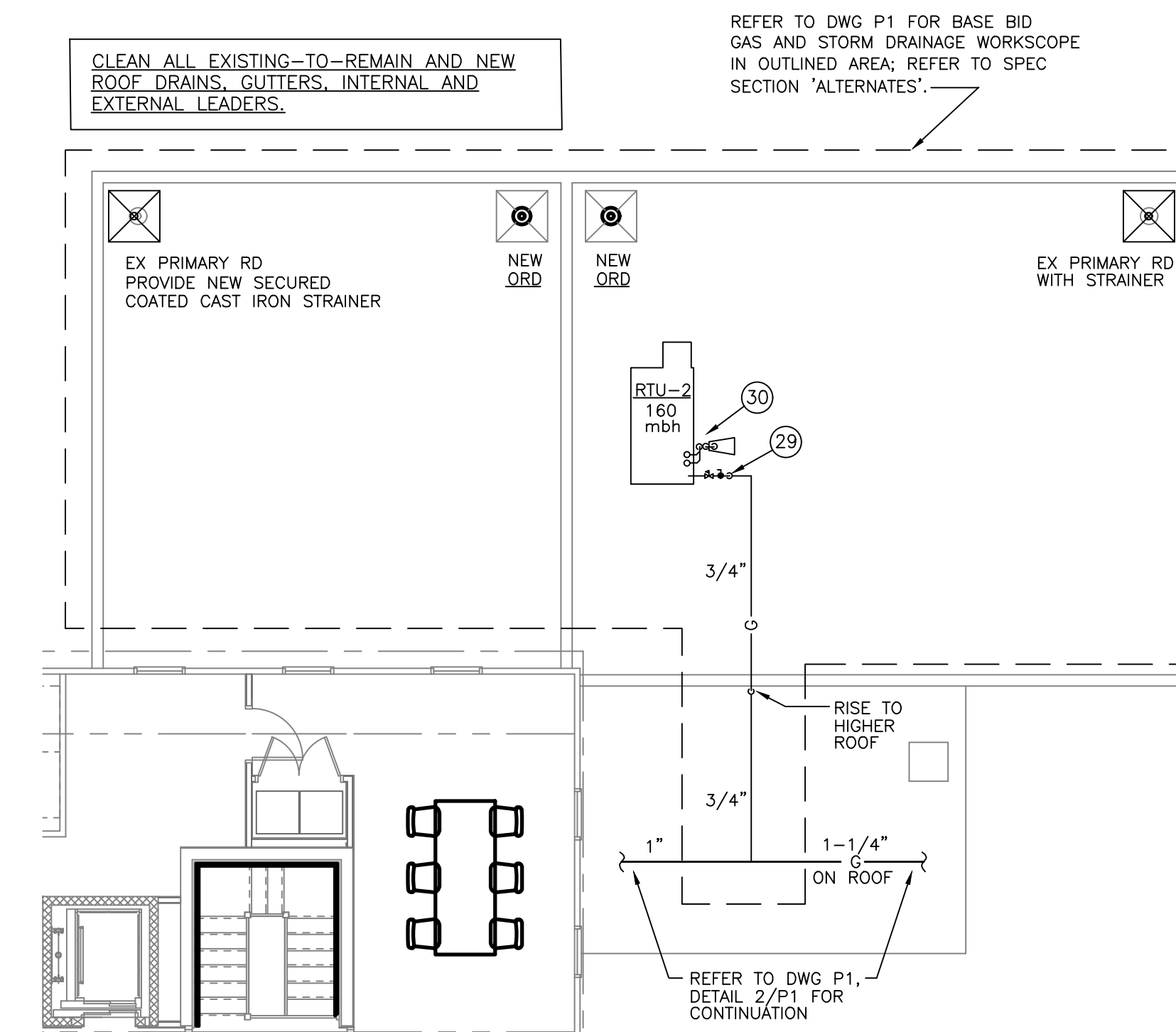
Drawing Title:
PLUMBING FLOOR PLANS AND RISER DIAGRAMS
Scale:
AS NOTED
Drawn By:
MBQ
Project Number:
11.447

Date:
5.18.18
Scale:
AS NOTED
Drawn By:
MBQ
Project Number:
11.447

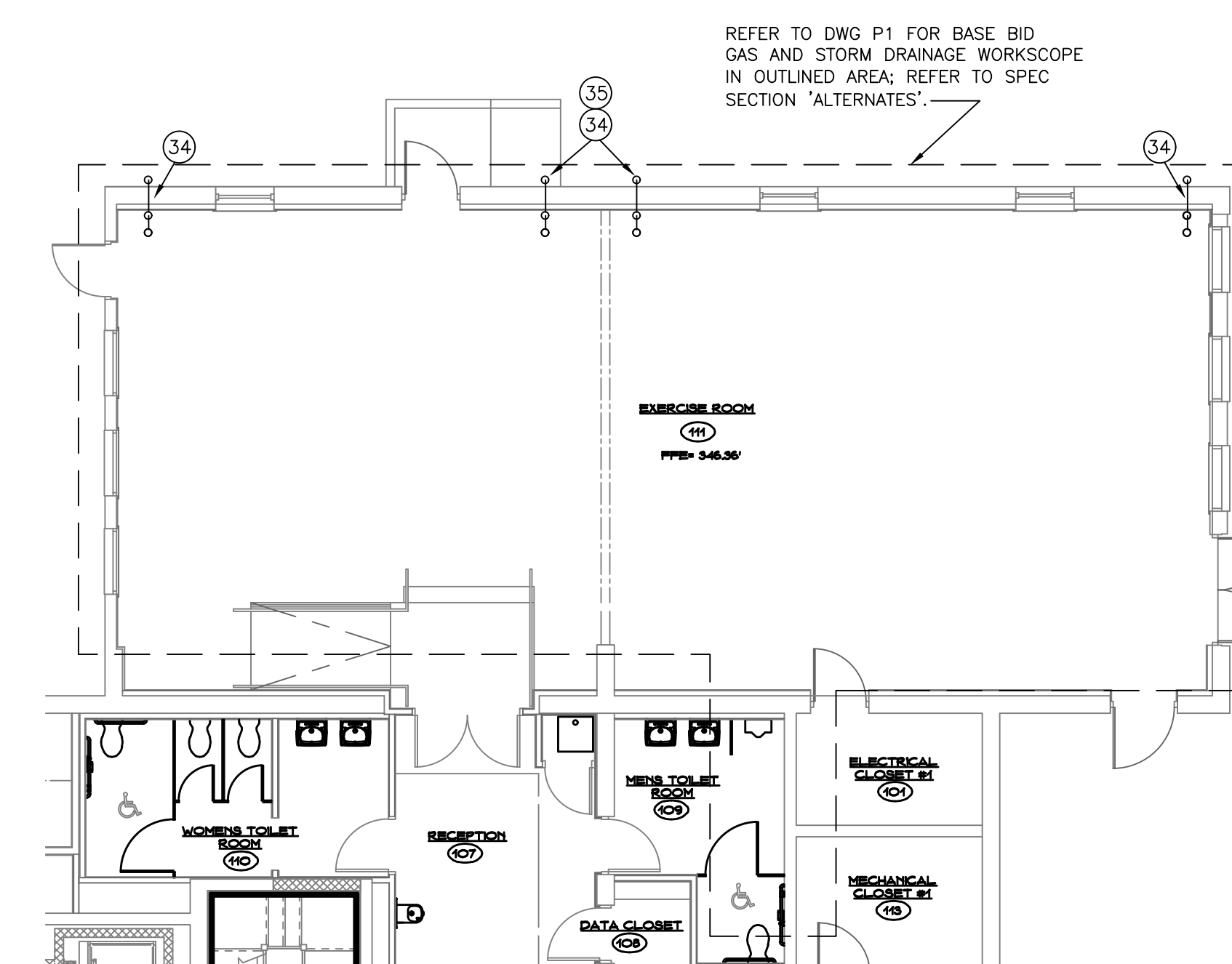
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P1

KEY PLAN NOTES

- 1 EXISTING DOMESTIC WATER SERVICE ENTRANCE AND METER TO REMAIN. VERIFY EXACT LOCATION IN FIELD. CONNECT TO METER ASSEMBLY DISCHARGE. PROVIDE NEW SHUTOFF, INCREASE TO 1 1/2" AND ROUTE ALL NEW CW IN BUILDING.
- 2 ALL UNDERSLAB SAN/WASTE IN BUILDING REQUIRED TO BE ACTIVE AFTER RENOVATION. ALL NEW DISUSED UNDERSLAB SAN/WASTE SHALL BE DISCONNECTED, CAPPED AND ABANDONED. (REMOVE ANY DISUSED PIPING WHICH CONFLICTS WITH NEW WORK.)
- 3 ALL UNDERSLAB SAN/WASTE IN BUILDING REQUIRED TO BE ACTIVE AFTER RENOVATION. PROVIDE NEW BUILDING SAN EXIT AND CONNECT APPROXIMATELY HERE TO SITE SANITARY ROUTING TO EXISTING SITE SEWAGE DISPOSAL SYSTEM. COORDINATE SAN ROUTING CLOSELY WITH GAS UTILITY'S GAS METER INSTALLATION REQUIREMENTS.
- 4 EXISTING RECENTLY INSTALLED GAS SERVICE METER/REGULATOR INSTALLATION. 2 PSI REGULATOR DISCHARGE/METERING PRESSURE.
- 5 APPROX ROUTING OF EXISTING BUILDING SANITARY EXIT TO EXISTING SEPTIC TANK. VERIFY EXACT SIZE AND LOCATION OF SAN EXIT, LEAVING INVERT, AND ROUTING DIRECTION IN FIELD. ADJUST NEW UNDERSLAB SAN/WASTE PIPING (INCLUDING STARTING INVERT) TO CONNECT TO SAME.
- 6 1 1/2" CW, 3/4" HW, 3/4" HWR; ROUTE IN MECH'L SOFFIT WITH DUCTWORK (REFER TO ARCH'L AND MECH'L PLANS)
- 7 1" CW, 3/4" HW, 3/4" HWR
- 8 EXTEND OVERHEAD 3/4" HW&R AND 4" SAN MAINS TO BEYOND ELEV. MACHINE ROOM. CAP FOR FUTURE AND CONNECT HW AND HWR MAINS WITH VALVED BRANCH. CALCULATE AND PROVIDE HIGHEST POSSIBLE SAN MAIN ROUTING ELEVATIONS REQUIRED TO SERVE ALL FUTURE 2ND FLOOR FIXTURE INSTALLATIONS INDICATED ON THE DWGS.
- 9 1 1/2" CW, 3/4" HW, 3/4" HWR
- 10 3/4" CW DROP, 2" V RISE IN WALL; 4" SAN DN
- 11 3/4" CW DROP, 1 1/2" V RISE IN WALL; 2" SAN DN
- 12 COLLECT LAV WASTES IN WALL WITH 1 1/2"; CONN. INTO 2" URINAL SAN DN
- 13 3/4" HW&CW DROPS IN WALL; 3/4" HW&CW TO EACH LAV; 1 1/2" W W/TRAP (TYP. EACH LAV)
- 14 COLLECT LAV WASTES IN WALL TO 2" W DOWN
- 15 3/4" CW DROP, 1 1/2" V RISE IN CHASE; 1 1/2" W TO 4" SAN STACK
- 16 4" SAN DOWN TO BELOW SLAB; PROVIDE WCD AT BASE OF DROP; STUB TOP OUT OF CHASE AND PROVIDE CO ABOVE CEILING
- 17 1-1/2" GAS (2 PSI) FROM SERVICE METER/REGULATOR (CONTRACTOR'S WORK BEGINS AT DISCHARGE OF GAS CO'S SERVICE METER/REGULATOR INSTALLATION). FOR USE IN SERVICE METER/REG. SIZING, NOTIFY GAS UTILITY OF TOTAL CONN. LOAD FOR THIS PROJECT AND INCLUDE 160 MBH ALLOWANCE FOR FUTURE BLDG CONN. LOAD.
- 18 1" GAS WITH SHUTOFF VALVE; ROUTE INTO MECH'L ROOM AND RISE; RUN HIGH AS POSSIBLE.
- 19 1-1/4" GAS WITH SHUTOFF VALVE; RISE ON WALL TO ROUTE ON ROOF.
- 20 3/4" CW DROP TO TP1 AT (MIN.) 24" AFF ON WALL; 3/4" PRIMER FEED BELOW SLAB FROM PRIMER TO FD PRIMER CONN.
- 21 4" W WITH TRAP AND 2" V FROM FD1; 2" V RISE IN CORNER
- 22 DOMESTIC HOT WATER CIRCULATION PUMP; REFER TO SPECS ON DWG P2 AND DETAILS ON DWG P3 SCHEDULES AND DETAIL 3/P3; 3/4" CONNECTIONS
- 23 3/4" CW, 3/4" GAS TO, 3/4" HW FROM GWH1 (TANKLESS CONDENSING GAS-FIRED DOMESTIC WATER HEATER) - REFER TO SPECS ON DWG P2 AND DETAILS ON DWG P3
- 24 3/4" CW DROP TO NON-FREEZE WALL HYDRANT (COMPACT LENGTH), AT APPROX 24" AFF
- 25 HYDRAULIC "LULA" ELEVATOR IN SHAFT WITH 14" PIT RECESS. PROVIDE OIL DETECTION/ALERT SYSTEM; REFER TO SPECS - NOTE 31.
- 26 3/4" VALVED GAS STUB WITH CAP FOR FUTURE EQUIPMENT (40 MBH)
- 27 3/4" GAS DROP TO GFUH-1, WITH SHUTOFF, DIRTLEG AND VENT LIMITING PRESSURE REGULATOR.
- 28 3/4" GAS DN THRU ROOF IN WEATHERTIGHT ROOF PENETRATION, AND 3/4" GAS UP ON PITCHED ROOF TO CROSS RATED STAIR AREA; DROP INTO 2ND FLR MECH'L CLOSET.
- 29 3/4" GAS TO RTU, WITH SHUTOFF AND LINE PRESSURE REGULATOR; TERMINATE REGULATOR VENT WITH OPENENDED DOWNTURNED ELBOW.
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- 34 EXISTING INTERIOR ROOF DRAIN LEADER IS ROUTED DOWN TO EXIT THRU WALL AT APPROX 12" AFF, AND LEFT OPENENDED ABOVE GRADE. VIF PIPE SIZE
- 35 REMOVE EXISTING ROOF DRAIN AND PROVIDE ENTIRELY NEW EMERGENCY/OVERFLOW ROOF DRAIN WITH OUTLET SIZED TO MATCH EXISTING INTERIOR ROOF DRAIN LEADER (ESTIMATED 4"). CONNECT ROOF DRAIN INTO EXISTING INTERIOR ROOF DRAIN LEADER. REMOVE ROOF DRAIN LEADER BACK TO 3 FT AFF; ROUTE THROUGH WALL AND PROVIDE DOWNSPOUT NOZZLE WITH STAINLESS STEEL BIRDSREEN, AND EMERGENCY SIGNAGE ABOVE. PATCH DISUSED WALL PENETRATION TO CLOSELY MATCH EXISTING ADJACENT EXTERIOR WALL.
- 36 3/4" GAS DROP TO GFUH-2, WITH SHUTOFF, DIRTLEG AND VENT LIMITING PRESSURE REGULATOR.



2 PARTIAL SECOND FLOOR PLUMBING PLAN - ALTERNATE
SCALE: 1/8" = 1'-0"



1 PARTIAL FIRST FLOOR PLUMBING PLAN - ALTERNATE
SCALE: 1/8" = 1'-0"

NOTE: ALL PLUMBING SYSTEMS IN ALTERNATE WORKSCOPE AREAS SHALL BE AS PER BASE BID (AS SHOWN ON DWGS P1, P2 AND P3) UNLESS SPECIFICALLY SHOWN ALTERED FROM BASE BID ON DWG P1A.

REFER TO SPECIFICATION SECTION 'ALTERNATES'

Project Title:
Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525



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| Revision | Description | Date | Revised By |
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Drawing Title:
PLUMBING PART PLANS - ALTERNATES

Date:
5.18.18

Scale:
AS NOTED

Drawn By:
MBQ

Project Number:
11.147

P1A

GENERAL

- THE INTENT OF THESE CONTRACT DOCUMENTS IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS, OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID.
- ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO FORM A TOTAL DESIGN PACKAGE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.
- ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY THE STATE OF CONNECTICUT BUILDING CODE.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF FIXTURES, ETC. COLORS SHALL BE COORDINATED WITH THE ARCHITECT. CONTACT ARCHITECT FOR CLARIFICATION OF MOUNTING REQUIREMENTS IF INFORMATION IS NOT CONTAINED IN THE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION.
- ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS, WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. THESE SHALL BE COORDINATED WITH THE ARCHITECT.
- WHEN CONFLICTS OCCUR BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, THE CONTRACTOR SHALL CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL EQUIPMENT FURNISHED BY OWNER OR OTHER TRADES, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.
- CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH FIRE STOPPING SEALANT WHERE REQUIRED. PENETRATIONS OF FINISHED CONSTRUCTION SHALL USE LISTED COMPONENTS AND U.L.-APPROVED METHODS.
- LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP/DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER FOR ACCURACY.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE VALVES, AND OTHER CONCEALED DEVICES.
- ALL EQUIPMENT, PIPING, FIXTURES, ETC. SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND/OR REQUIRED TO PROVIDE A SECURE AND VIBRATION FREE INSTALLATION.
- LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- COORDINATE THE TERMINATIONS OF ALL EXHAUST PIPING, PLUMBING VENTS, ETC. TO MAINTAIN 25 FOOT MINIMUM HORIZONTAL SEPARATION FROM ALL FRESH AIR INTAKES AND OPERABLE WINDOWS AND DOORS. IF EXHAUST OR VENT TERMINATION MUST BE LOCATED WITHIN 25 HORIZONTAL FEET OF SUCH AN OPENING OR INTAKE, TERMINATION MUST BE LOCATED AT LEAST 2 FEET ABOVE TOP OF ALL OPENINGS/INTAKES WITHIN 25 HORIZONTAL FEET.

PLUMBING GENERAL INTENT - DEMOLITION AND COORDINATION WITH EXISTING SYSTEMS

- THIS PROJECT IS PRIMARILY A RENOVATION OF AN EXISTING FACILITY. IT IS GENERALLY THE INTENT OF THE PLUMBING DRAWINGS TO MAINTAIN EXISTING SITE UTILITIES AND SERVICES, DEMOLISH ALL EXISTING PLUMBING FIXTURES, EQUIPMENT AND ABOVE SLAB PIPING AND TO PROVIDE ALL NEW PLUMBING FIXTURES, EQUIPMENT AND PIPING WITHIN THE BUILDING.
- BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS.
- IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIECE OF EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT INDICATED TO BE REMOVED SHALL BE REMOVED INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES AND CONTROLS BACK TO THE POINT OF ORIGIN.
- NO EQUIPMENT, PIPING OR CONDUIT SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED. NO DEADENDS ARE ALLOWED ON ACTIVE SANITARY AND WASTE PIPING. REMOVE EXISTING SAN/WASTE/VENT PIPING TO BELOW SLAB AND CAP. DISCONNECT EX. BLDG SAN EXIT FROM EX. SITE SANITARY AND CAP. REMOVE EX. BUILDING DOMESTIC CW/HW/HWR WATER COMPLETELY. BACK TO EX. WATER METER DISCHARGE; PROVIDE NEW SHUTOFF VALVE AT METER DISCHARGE.
- PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT AND MATERIALS IN COMPLIANCE WITH CODES AND REGULATIONS.
- PROVIDE TEMPORARY CONNECTIONS AND SYSTEM MODIFICATIONS AS REQUIRED FOR CONSTRUCTION.
- INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY. COORDINATE WITH GENERAL CONTRACTOR/CONSTRUCTION MANAGER FOR PHASING REQUIREMENTS.
- FIELD VERIFY FOR EXACT LOCATIONS AND QUANTITY OF ITEMS BEING REMOVED. COORDINATE WITH ARCHITECTURAL PLANS FOR SCOPE AREA OF DEMOLITION AND CONSTRUCTION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR PATCHING, REPAIRING, CAPPING, ETC. RELATED TO DEMOLITION AND CONSTRUCTION.

PLUMBING

- IT IS NOT NECESSARILY THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE. ONLY BRANCH PIPING TO GROUPS OF FIXTURES MAY BE INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE AND VENT PIPING SYSTEMS. FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE, REFER TO THE PLUMBING FIXTURE SCHEDULE.
- PIPING LAYOUTS AS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL FITTINGS AND OFFSETS AS REQUIRED FOR COORDINATION WITH BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES.
- PROVIDE TRAP PRIMER FOR EACH NEW FLOOR DRAIN. CONNECT TRAP PRIMER TO NEAREST COLD WATER MAIN. PROVIDE ISOLATION VALVE AND EXTEND TO FLOOR DRAIN AS REQUIRED.
- PROVIDE CONDENSATE DRAINS FOR ALL COOLING COILS; PIPE BY GRAVITY TO INDIRECT WASTE OR IF GRAVITY DRAINAGE IS NOT POSSIBLE, AND NOT PROVIDED INTEGRAL TO UNIT GENERATING CONDENSATE, PROVIDE A CONDENSATE REMOVAL PUMP, WIRED TO LOCAL POWER CIRCUIT AND PIPED TO OUTSIDE (AND NOT POSING HAZARD TO PEDESTRIAN OR VEHICULAR TRAFFIC) OR VIA INDIRECT WASTE CONNECTION TO BLDG SANITARY PIPING DRAINAGE SYSTEM.
- COORDINATE MOUNTING HEIGHTS OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.
- PROVIDE SHUT OFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.
- ALL WATER PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE AND DRAIN VALVES AT THE BOTTOM OF ALL WATER SYSTEM RISERS AND LOW POINTS.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS ABOVE FLOOR SLAB (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
- PROVIDE CLEANOUPS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 50 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED.
- ALL CLEANOUPS SHALL BE FULL SIZE OF PIPE FOR PIPE 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.
- ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRED VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.

PLUMBING ABBREVIATIONS

(NOT ALL SYMBOLS ARE USED)

| | | | |
|------------|------------------------------|--------|------------------------------|
| AAV | AIR ADMITTANCE VALVE | LAV | LAVATORY |
| ABV | ABOVE | LB | POUND |
| AD | ACCESS DOOR | LF | LINEAL FEET |
| AFF | ABOVE FINISHED FLOOR | LP | LIQUID PROPANE |
| AFG | ABOVE FINISHED (LOCAL) GRADE | LVG | LEAVING |
| BLW | BELOW | MAX | MAXIMUM |
| C | CONDENSATE | MIN | MINIMUM |
| CLG | CEILING | MHH | BTU PER HOUR (THOUSANDS) |
| CO | CLEANOUT | NFWH | NON-FREEZE WALL HYDRANT |
| CONN | CONNECT, CONNECTION | NTS | NOT TO SCALE |
| C.P. | CHROME PLATED | OST | OVERFLOW (EMERGENCY) STORM |
| CIE | CONNECT TO EXISTING | PH | PHASE |
| CW | COLD WATER | PRV | PRESSURE REDUCING VALVE |
| CUST. | CUSTOMER'S (JANITOR'S) | RD | ROOF DRAIN |
| DF | DRAINING FOUNTAIN | RZ | REDUCED PRESSURE ZONE |
| EWG | ELECTRIC WATER COOLER | RTU | ROOF TOP UNIT |
| EX, EXISTG | EXISTING | RVL | VERTICAL RAINWATER CONDUCTOR |
| EXH | EXHAUST (GAS WATER HEATER) | S, SAN | SANITARY WASTE |
| FD | FLOOR DRAIN | ST | STORM |
| FS | FLOOR SINK | START | STARTING |
| FT | FEET | SWS | SOLAR WATER SUPPLY |
| G | GAS | SWR | SOLAR WATER RETURN |
| GPF | GALLONS PER FLUSH | TD | TRENCH DRAIN |
| GPH | GALLONS PER HOUR | TWV | THERMOSTATIC MIXING VALVE |
| GPM | GALLONS PER MINUTE | TP | TRAP PRIMER |
| GT | GREASE TRAP | TW | TWIND WATER (85 DEG F) |
| HW | HOT WATER | UR | URINAL |
| HWB | HOT/COLD HOSE BIBB | V | VENT |
| HD | HEAD | VTR | VENT THRU ROOF |
| HP | HORSEPOWER | W | WASTE |
| HW | HOT WATER | WC | WATER CLOSET |
| HWR | HOT WATER RECIRCULATING | WCD | WALL CLEAN OUT |
| I.W. | INDIRECT WASTE | WHA | WATER HAMMER ARRESTOR |
| JAN. | JANITOR'S (CUSTOMER'S) | YDD | YARD CLEANOUT |

PLUMBING LEGEND

(NOT ALL SYMBOLS ARE USED)

| | | | |
|--|---|--|---|
| | EXISTG PIPING/EQUIPMENT TO BE REMOVED | | BALANCING VALVE |
| | EXISTG COLD WATER | | CHECK VALVE |
| | EXISTG HOT WATER (140°F) | | PRESSURE REDUCING VALVE |
| | EXISTG HOT WATER (TEMPERED TO 110°F) | | THERMOSTATIC MIXING VALVE |
| | EXISTG HOT WATER (TEMPERED TO 99°F) | | T & P RELIEF VALVE |
| | EXISTG SANITARY OR WASTE BELOW SLAB | | PRESSURE GAUGE |
| | EXISTG SANITARY OR WASTE ABOVE GRADE/SLAB | | BACKFLOW PREVENTER |
| | EXISTG VENT | | UNION |
| | COLD WATER | | STRAINER |
| | HOT WATER (TEMPERED TO 110°F) | | BUTTERFLY VALVE |
| | HOT WATER (TEMPERED TO 109°F) | | WATER HAMMER ARRESTOR |
| | HOT WATER (TEMPERED TO 99°F) | | THERMOMETER |
| | SANITARY OR WASTE BELOW SLAB | | EXPOSED OR WALL CLEANOUT |
| | SOIL OR WASTE ABOVE GRADE/SLAB | | FLOOR CLEANOUT |
| | VENT | | FLOOR DRAIN |
| | CONDENSATE | | ROOF DRAIN |
| | TRAP & DRAIN | | WALL HYDRANT OR HOSE BIB |
| | PIPE ELBOW UP | | MANUAL AIR VENT |
| | PIPE ELBOW DOWN | | CIRCULATING PUMP |
| | VALVE ON RISE OR DROP | | CONNECT TO EXISTING |
| | SHUTOFF VALVE (GATE OR BALL TYPE) | | TRAP PRIMER VALVE FOR SINGLE TRAP SERVICE |
| | GATE VALVE | | |
| | BALL VALVE | | |
| | ELECTRIC/ELECTRONIC (SOLENOID) VALVE | | |

PLUMBING FIXTURE SCHEDULE

| FIXTURE DESIGNATION | DESCRIPTION | MANUFACTURER | MODEL NUMBER | NOTES | SAN/WASTE | VENT | COLD | HOT |
|---------------------|---|-------------------|---|---|-----------|--------|------|------|
| WC1 | FLOOR-MOUNT/FLOOR OUTLET PRESSURE-ASSISTED TANK TYPE WATER CLOSET | AMERICAN STANDARD | CADET RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED TOILET 1.6 GPF #2467.016 | ADA/UFAS-COMPLIANT, WHITE VITREOUS CHINA, 1.6 GPF, FLOOR-MOUNT, ELONGATED PRESSURE-ASSISTED, CLOSE-COUPLED TANK TYPE TOILET WITH OLSONITE # 95 ELONGATED OPEN FRONT PLASTIC SEAT WITH CHECK HINGE, 12" ROUGH, 16-1/2" RIM HEIGHT. | 4" | 2" | 1/2" | --- |
| WC1-HC | ADA FLOOR-MOUNT/FLOOR OUTLET PRESSURE-ASSISTED TANK TYPE WATER CLOSET | AMERICAN STANDARD | CADET RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED TOILET 1.6 GPF #2467.016 | ADA/UFAS-COMPLIANT, WHITE VITREOUS CHINA, 1.6 GPF, FLOOR-MOUNT, ELONGATED PRESSURE-ASSISTED, CLOSE-COUPLED TANK TYPE TOILET WITH OLSONITE # 95 ELONGATED OPEN FRONT PLASTIC SEAT WITH CHECK HINGE, 12" ROUGH, 16-1/2" RIM HEIGHT. | 4" | 2" | 1/2" | --- |
| WC2-HC | ADA FLOOR-MOUNT/FLOOR OUTLET PRESSURE-ASSISTED TANK TYPE WATER CLOSET | AMERICAN STANDARD | YORKVILLE RIGHT-HEIGHT ELONGATED PRESSURE-ASSISTED TOILET 1.6 GPF #2878.020 | ADA/UFAS-COMPLIANT, WHITE VITREOUS CHINA, 1.6 GPF, FLOOR-MOUNT, BACK OUTLET ELONGATED, PRESSURE-ASSISTED, CLOSE-COUPLED TANK TYPE TOILET WITH OLSONITE # 95 ELONGATED OPEN FRONT PLASTIC SEAT WITH CHECK HINGE, 16-1/2" RIM HEIGHT. | 4" | 2" | 1/2" | --- |
| UR1-HC | ADA WALL-MOUNT URINAL | AMERICAN STANDARD | WASHBROOK FLOW96 0.125 GPF #6590.503 URINAL SYSTEM | ADA/UFAS-COMPLIANT, WHITE VITREOUS CHINA, WASHOUT ACTION, 0.125 GPF, WALL MOUNT, WITH AMERICAN STANDARD #6045.013 0.125 GPF PISTON TYPE MANUAL FLUSH VALVE, AND MFR'S WALL HANGER. PROVIDE ADDITIONAL WALL BLOCKING AS REQUIRED FOR RIGID HANGER MOUNTING. | 2" | 1-1/2" | 3/4" | --- |
| LAV1 | WALL-MOUNT LAVATORY | AMERICAN STANDARD | LUCERNE # 0355.012 | WALL-MOUNT, VITREOUS CHINA, CONCEALED ARMS; 20.5" X 18.25" O.A., FRONT OVERFLOW, SELF-DRAINING DECK AREA, BACK/SIDE SPLASH SHIELDS, FAUCET LEDGE; 4" CENTERS. PROVIDE (ALL CHROME-PLATED): BRASS TAILPIECE WITH BRASS TRAP/CLEANOUT, NEW BRASS ANGLE STOPS, COPPER SUPPLIES, PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE ON HW SUPPLY. FAUCET: SYMONS S-20-2-G-W SINGLE LEVER FAUCET WITH GRID STRAINER AND 0.5 GPM FLOW CONTROL. PROVIDE FLOOR-MOUNTED CONCEALED ARM SUPPORT BY WADE, JOSAM, JAY R. SMITH. PROVIDE TRUBERO LAV-SHIELD ENCLOSURE TO COVER EXPOSED WATER/WASTE PIPING BELOW LAV; FOR LAV MOUNTING HEIGHTS LOWER THAN 34" AFF, CUT TOP OF ENCLOSURE TO MAINTAIN/MATCH REQUIRED ADA CLEARANCES AT THAT MOUNTING HT. | 1-1/2" | 1-1/2" | 1/2" | 1/2" |
| LAV1-HC | ADA WALL-MOUNT LAVATORY | AMERICAN STANDARD | LUCERNE # 0355.012 | ADA WALL-MOUNT, VITREOUS CHINA, CONCEALED ARMS; 20.5" X 18.25" O.A., FRONT OVERFLOW, SELF-DRAINING DECK AREA, BACK/SIDE SPLASH SHIELDS, FAUCET LEDGE; 4" CENTERS. PROVIDE (ALL CHROME-PLATED): BRASS TAILPIECE WITH BRASS TRAP/CLEANOUT, NEW BRASS ANGLE STOPS, COPPER SUPPLIES, PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE ON HW SUPPLY. FAUCET: SYMONS S-20-2-G-W EXTRA LONG SINGLE LEVER FAUCET WITH GRID STRAINER AND 0.5 GPM FLOW CONTROL. PROVIDE FLOOR MOUNTED CONCEALED ARM SUPPORT BY WADE, JOSAM, JAY R. SMITH. PROVIDE TRUBERO LAV-SHIELD ENCLOSURE TO COVER EXPOSED WATER/WASTE PIPING BELOW LAV; FOR LAV MOUNTING HEIGHTS LOWER THAN 34" AFF, CUT TOP OF ENCLOSURE TO MAINTAIN/MATCH REQUIRED ADA CLEARANCES AT THAT MOUNTING HT. | 1-1/2" | 1-1/2" | 1/2" | 1/2" |
| S1-HC | ADA COUNTER MOUNT DOUBLE COMPARTMENT SINK | ELKAY | LRAD3319 | ADA-COMPLIANT, COUNTER MOUNT 18 GA. TYPE 304 STAINLESS STEEL SINK, 33" X 19.5" OVERALL, EACH COMPARTMENT 14" X 14" X 5.0" DEEP. FAUCET HOLE PROVISIONS: (4) ON 4" CENTERS. PROVIDE C.P. METAL TAILPIECE/TRAP/CLEANOUT, C.P. METAL ANGLE STOPS AND SUPPLIES. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE ON HW SUPPLY. PROVIDE TRUBERO BASIN GUARD ENCLOSURE ACROSS ENTIRE WIDTH OF UNDER-SINK OPENING BETWEEN BASE CABINETRY. FAUCET: ELKAY # LK-4101 SINGLE LEVER WITH HOSE SPRAY, DRAIN: ELKAY # LK-35 STRAINER DRAIN. NOTE: # LK-35L DRAIN WITH 90 DEGREE ELBOW MAY BE USED IN LIEU OF # LK-35 | 1-1/2" | 1-1/2" | 1/2" | 1/2" |
| MSK | MOP SERVICE BASIN | FIAT | # USB-2424 | MOLDED STONE MOP SERVICE BASIN, 24"x24"x10"H, WITH MFR'S: VANDALPROOF DRAIN, 3" QDC DRAIN CONN., 832 AA HOSE AND HOSE BRACKET, 830 AA SERVICE FAUCET (INTEGRAL STOPS, VACUUM BREAKER, PAUL HOOK, HOSE THREAD, 8" CENTERS); 889 CC MOP BRACKET; E-88-4A STAINLESS STEEL BUMPER GUARD. PROVIDE 1.5 GPM FLOW CONTROL FITTING ON FAUCET. | 3" | 1-1/2" | 1/2" | 1/2" |
| DF1-HC | ADA DRINKING FOUNTAIN | ELKAY | # ECDFFW314C | ADA NO-LEAD STAINLESS STEEL DRINKING FOUNTAIN WITH STAINLESS STEEL WALL PLATE, FLEXIBLE ANTI-MICROBIAL BUBBLER, FRONT PUSHBUTTON. PROVIDE WITH MFR'S FILTER ON INLET, INTEGRAL P-TRAP, BOTTOM COVER PLATE. | 1-1/2" | 1-1/2" | --- | 1/2" |
| DW* | UNDERCOUNTER DISHWASHER | REFER TO ARCH'L | REFER TO ARCH'L | 1/2"HW FROM ADJACENT SINK SERVICES WITH INDIVIDUAL SHUTOFF VALVE; 3/4" HOSE DRAIN TO SINK WASTE VIA AIR GAP FITTING AS REQUIRED; CONNECT UPSTREAM OF TRAP; DO NOT OBSTRUCT ADA CLEARANCES BELOW SINK. DISHWASHER DISCHARGE HOSE, SINK WASTE TAILPIECE, TRAP AND WASTE PIPING SHALL BE PRODUCT MANUFACTURER-APPROVED FOR THE DWS MAXIMUM DISCHARGE TEMPERATURE (DO NOT INSTALL PVC FOR MAX. TEMP. EXCEEDING 140 DEG F.) | | | --- | 1/2" |
| W* | CLOTHES WASHER | REFER TO ARCH'L | REFER TO ARCH'L | PROVIDE WASHER WALL BOX: IPS CORP/GUY GRAY MODEL WMOB, WHITE POWDER COATED Z6A, COLD-ROLLED STEEL WATER/WASTE LAUNDRY BOX WITH SINGLE LEVER SHUTOFF FOR HW/OW SUPPLIES, INTEGRAL WATER HAMMER ARRESTOR, AND 2" DRAIN CONN. PROVIDE HW, CW, 2" WASTE STANDPIPE TO WALL BOX; PROVIDE STANDPIPE TRAP AND VENT. | 2" | 1-1/2" | 1/2" | 1/2" |

ALL FIXTURES SHALL HAVE FIXTURE STOPS; ALL EQUIPMENT SHALL HAVE ISOLATION BALL VALVES. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR TOILET ROOM FIXTURE MOUNTING HEIGHTS.

GAS-FIRED DOMESTIC WATER HEATER SCHEDULE

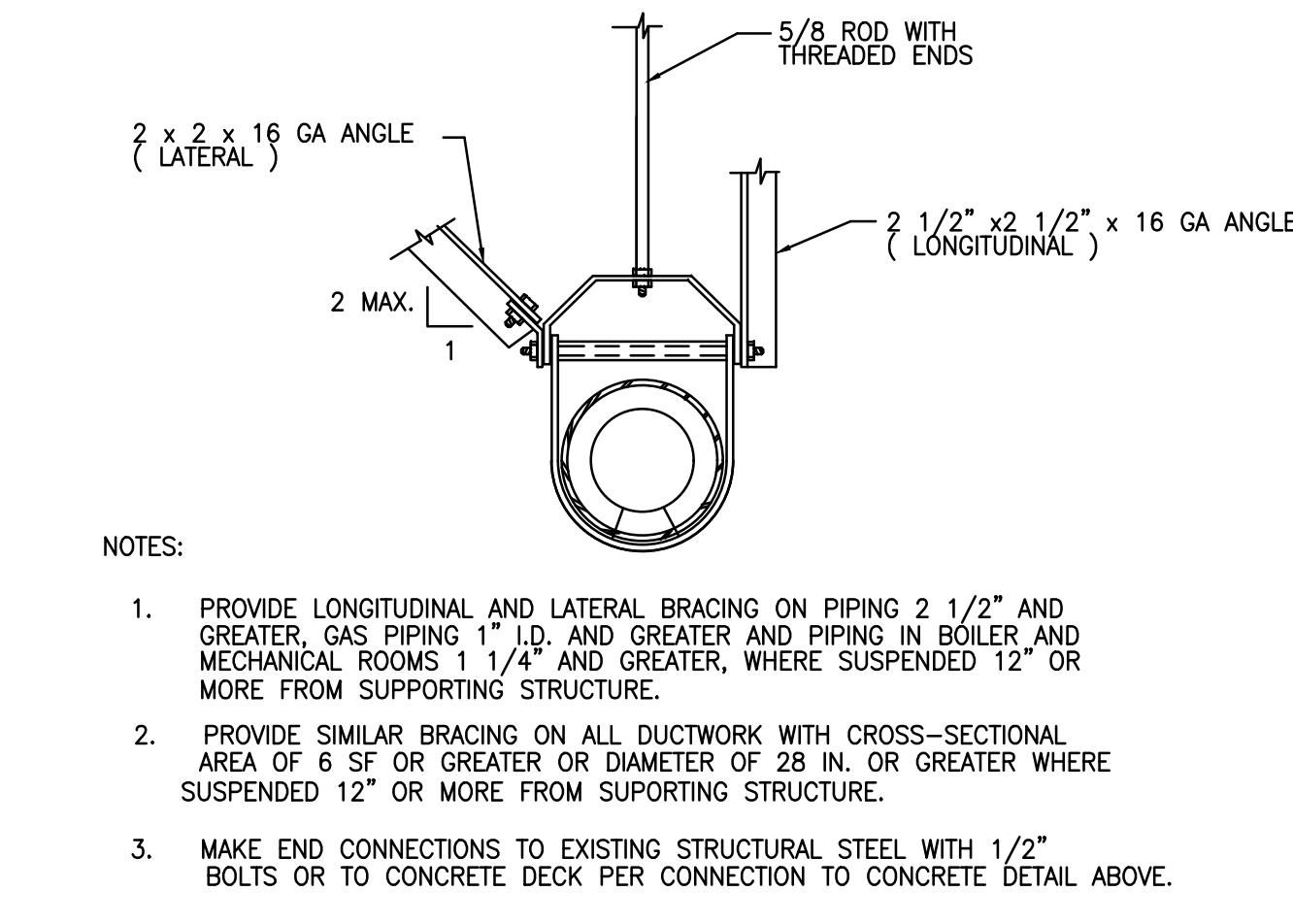
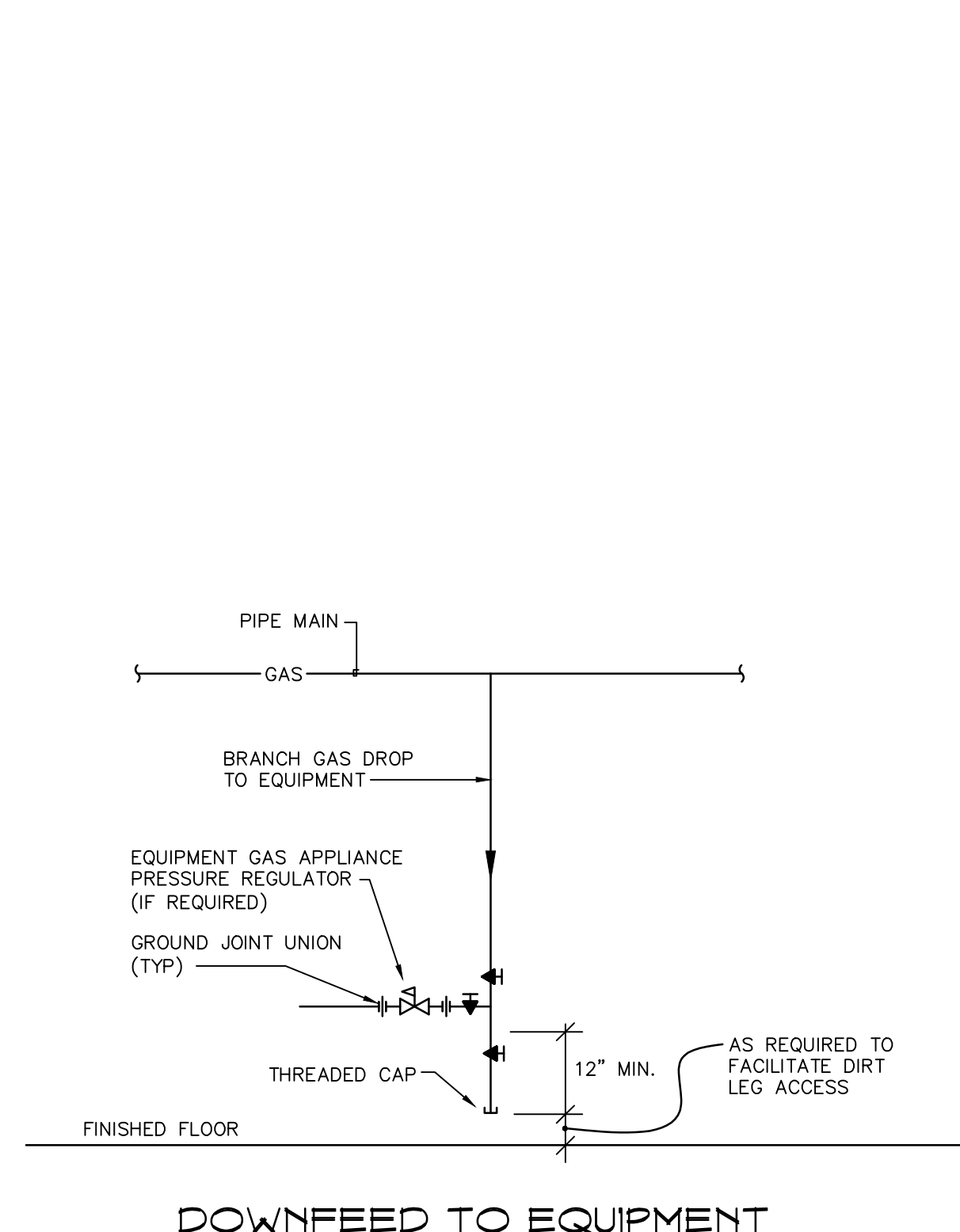
| EQUIPMENT NUMBER | MANUFACTURER | MODEL NUMBER | NOTES |
|---|--------------|---------------|--|
| QWH1, QWH2 | HEEM (1) | RGTH-CM95DLVN | COMMERCIAL, FULLY MODULATING, ON-DEMAND, CONDENSING NATURAL GAS-FIRED TANKLESS MANIFOLD-READY WATER HEATER, U.L. LISTED; ENERGY STAR QUALIFIED, NSF STANDARD 3-CERTIFIED; DIRECT VENT, ELECTRONIC IGNITER COIL, STEEL JACKET WITH BAKED POWDER COAT FINISH. FACTORY-INSTALLED POWER CORD, GAS AND WATER SERVICE SHUTOFF VALVES, AND TEMPERATURE REMOTE. TEMPERATURE REMOTE SHALL PROVIDE DIAGNOSTIC INFORMATION, FAULT HISTORY, AND HEATER SET TEMPERATURE WITH MINIMUM SETTING OF 85°F AND MAXIMUM SETTING OF 185°F. ON HW DISCHARGE, REPLACE FACTORY-INSTALLED PRESSURE RELIEF VALVE WITH COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE, PER CT CODE, AND ALSO PROVIDE DRAIN VALVE. PROVIDE MANIFOLDED CENTROTERM PPS VENT AND INTAKE PIPING SYSTEMS TO A SINGLE CONCENTRIC ROOF TERMINATION, ALL SIZED PER MANUFACTURER'S INSTRUCTIONS, BASED ON TWO CONNECTED HEATERS; EQUIVALENT LENGTH OF PIPE AND NUMBER/TYPE OF FITTINGS. PROVIDE CONDENSATE TRAP ON AIR INTAKE, INSTALLED HORIZONTALLY, WITH BOTTOM DRAIN CONNECTION PIPED TO NEAREST FLOOR DRAIN. PROVIDE MANUFACTURER'S INTEGRATED CONDENSATE NEUTRALIZER, PIPED TO OPEN OVER LOCAL FD. PROVIDE FACTORY-INSTALLED MANIFOLD CONTROL MODULE AND CONTROL CABLE. THE MANIFOLD HEATER CONTROLS SHALL MODULATE THE TWO-HEATER SYSTEM FOR THE MOST EFFICIENT PERFORMANCE, AND ALTERNATE THE INITIAL HEATER FOR BALANCED DUTY/CYCLE OPERATION. HEATERS SHALL HAVE MINIMUM 98% THERMAL EFFICIENCY, MEET THE ENERGY EFFICIENCY REQUIREMENTS OF THE US DEPT OF ENERGY AND ASHRAE 90.1-2007, AND COMPLY WITH ULTRA-LOW NOX EMISSIONS OF 14 ng/J OR 20 ppm. PERFORMANCE (EACH HEATER): MAX/MIN. INPUT: 11 MBH/199.9 MBH NATURAL GAS; MIN ACTIVATION FLOW RATE OF 0.4 GPM, MAX FLOW RATE 9.6 GPM, RATED 3.75 GPM AT 100°F RISE. INSTALL HEATERS AND VENTING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, EXCEPT DO NOT USE PVC OR CPVC FOR VENT/INTAKE PIPING. HEATERS SHALL BE WALL-MOUNTED; PROVIDE ADDITIONAL WALL BRACING AS REQUIRED. CONTRACTOR SHALL HAVE THE ENTIRE HEATER INSTALLATION INSPECTED BY THE STATE BOILER INSPECTOR. SIGNED CERTIFICATES SHALL BE FORWARDED TO THE OWNER WITH COPIES OF THE ENGINEER. PROVIDE FACTORY START-UP AND 3 HOURS OF OPERATION/CONTROL TRAINING TO OWNER'S STAFF. SET CONTROLLER FOR 120°F. MANUFACTURER'S WARRANTIES: 5 YEAR HEAT EXCHANGER/5 YEAR PARTS/1 YEAR LABOR (AT MINIMUM) FOR PROJECT'S COMMERCIAL APPLICATION. |
| (1) OR APPROVED EQUAL BY TAKAGI; RINNAI | | | |

DOMESTIC WATER HEATING SYSTEM ACCESSORY SCHEDULE

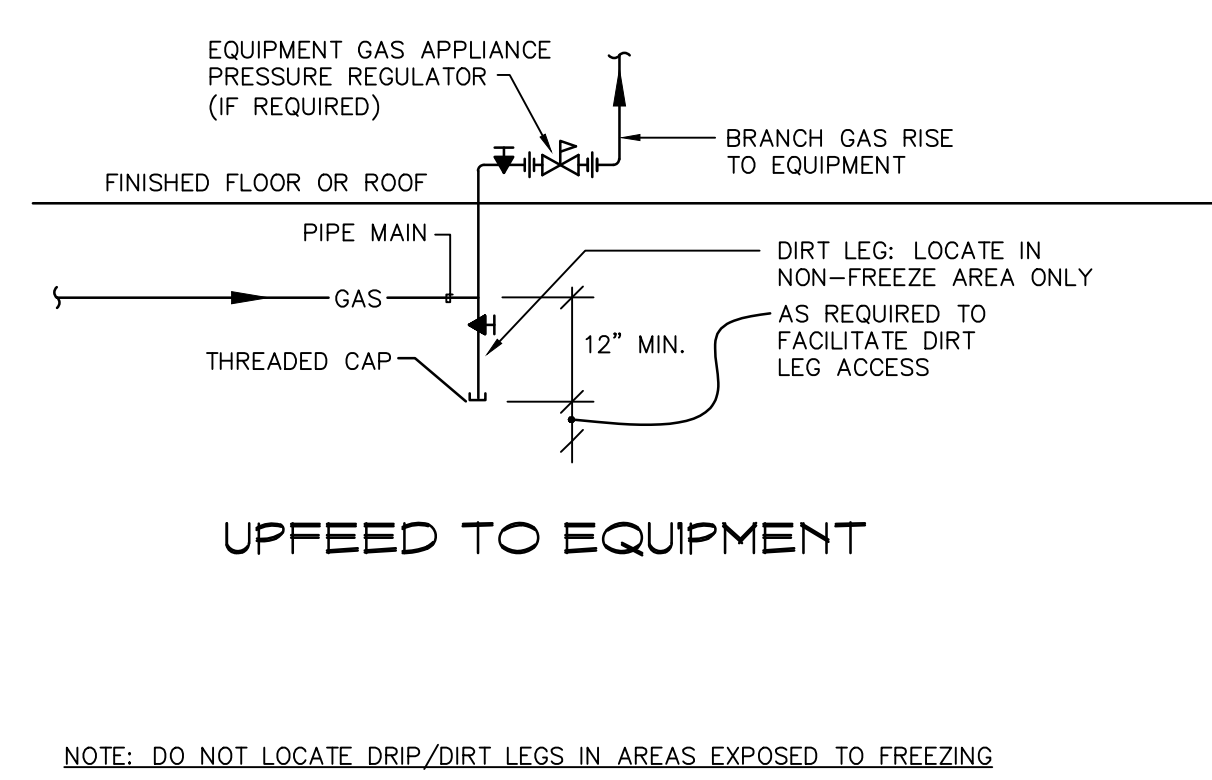
| EQUIPMENT NUMBER | MANUFACTURER | MODEL NUMBER | NOTES |
|--|--------------|--------------|---|
| ET1 | AMTROL | ST-5-C-DD | ASME-RATED 150 PSI THERMAL EXPANSION TANK; 2.0 GALLONS TOTAL VOLUME, 0.9 GALLONS MAX. ACCEPTANCE; 3/4" NPT CONNECTION |
| INDIVIDUAL TMS AT LAVS AND KITCHENETTE SINKS | | | |
| ACORN (1) ST70 | | | |
| (1) OR APPROVED EQUAL BY POWERS, LEONARD. | | | |

PLUMBING PUMP SCHEDULE

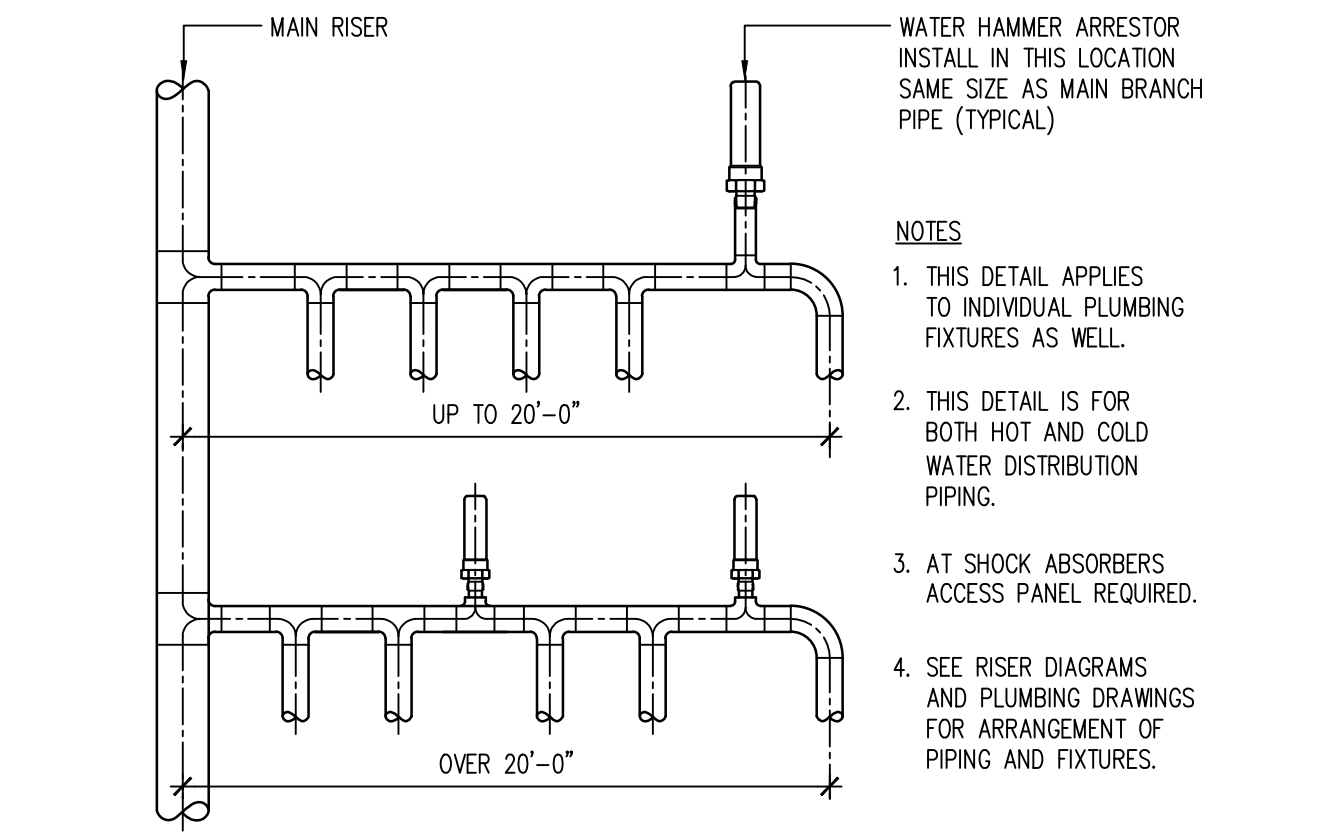
| EQUIPMENT NUMBER | MANUFACTURER | MODEL NUMBER | NOTES |
|--------------------------------|--------------------|--------------|--|
| HWRP1 | BELL & GOSSETT (1) | NBF-22 | BRONZE DOMESTIC HOT WATER RECIRCULATING PUMP; 15 FT SHUTOFF HEAD; RATED 2.5 GPM AT 12 FT HEAD; 115 VOLTS/1 PH, 1/25 HP; 3/4" NPT FLANGE. PUMP SHALL OPERATE VIA AQUASTAT CONTROLLED THROUGH 7-DAY TIMELOCK, CAPABLE OF 6 ON/OFF OPERATIONS EACH DAY; INTERMATIC #1200S, SPDT, 120VAC, 3 WATTS, 20 AMP RESISTIVE, CONTROLLING UP TO 1/2 HP MOTOR AT 120V. LOCATE THE TIME CLOCK ON WALL NEAR HWRP1 IN MECHANICAL ROOM, COORDINATING WITH ALL OTHER INSTALLATIONS. |
| (1) OR APPROVED EQUAL BY TACO. | | | |



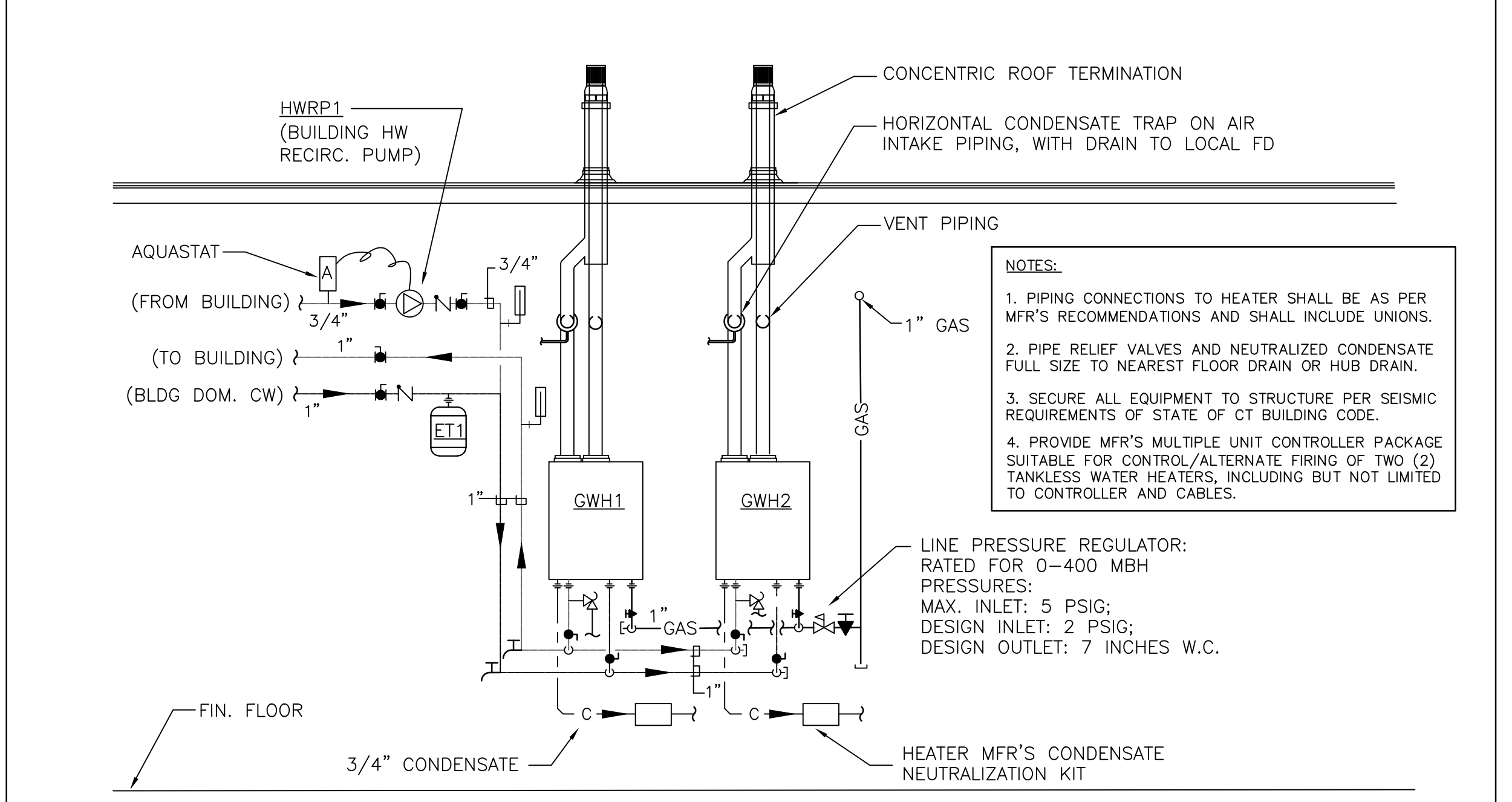
6 SEISMIC PIPE SUPPORT
SCALE: NONE



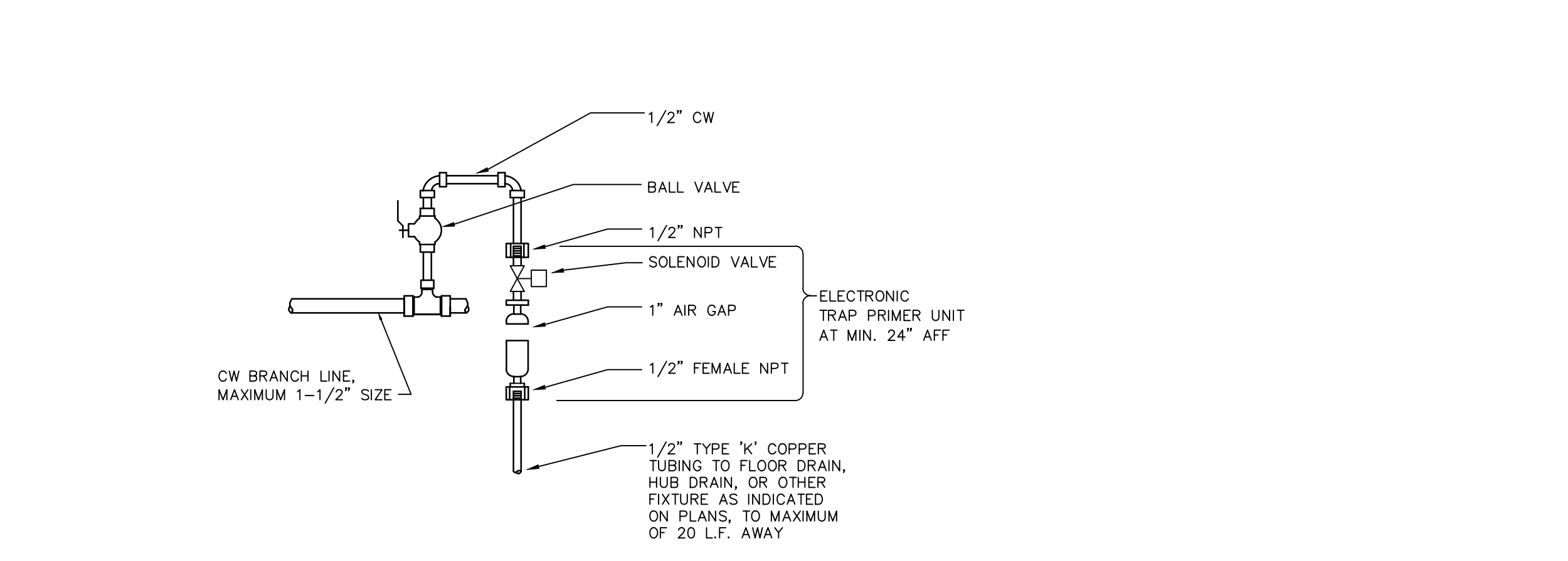
8 GAS CONNECTIONS TO EQUIPMENT
SCALE: NONE



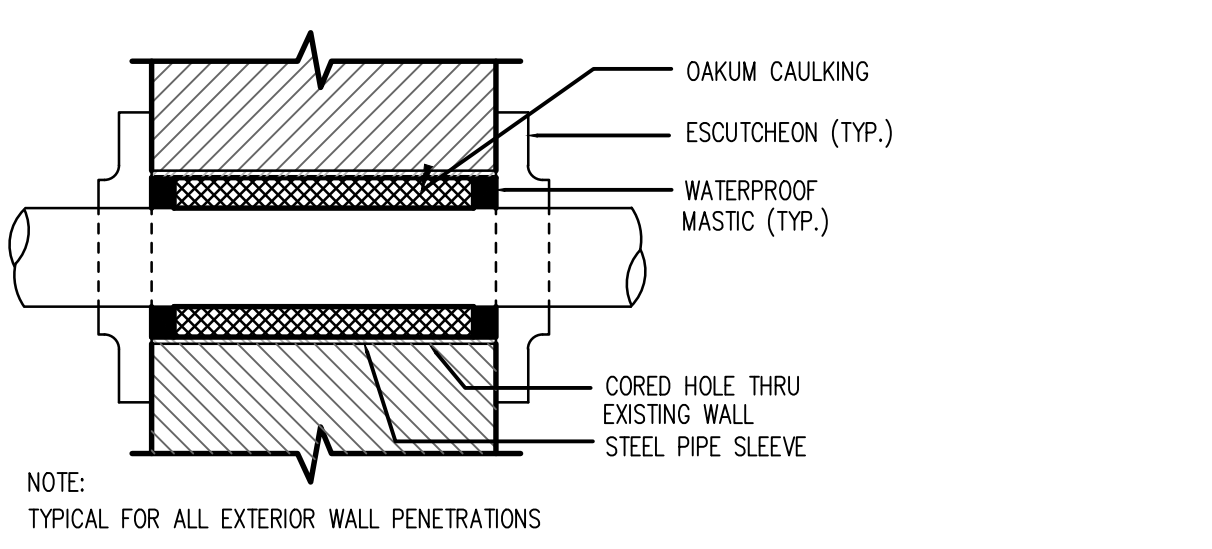
5 AIR CHAMBER AND SHOCK ABSORBER LOCATIONS
SCALE: NONE



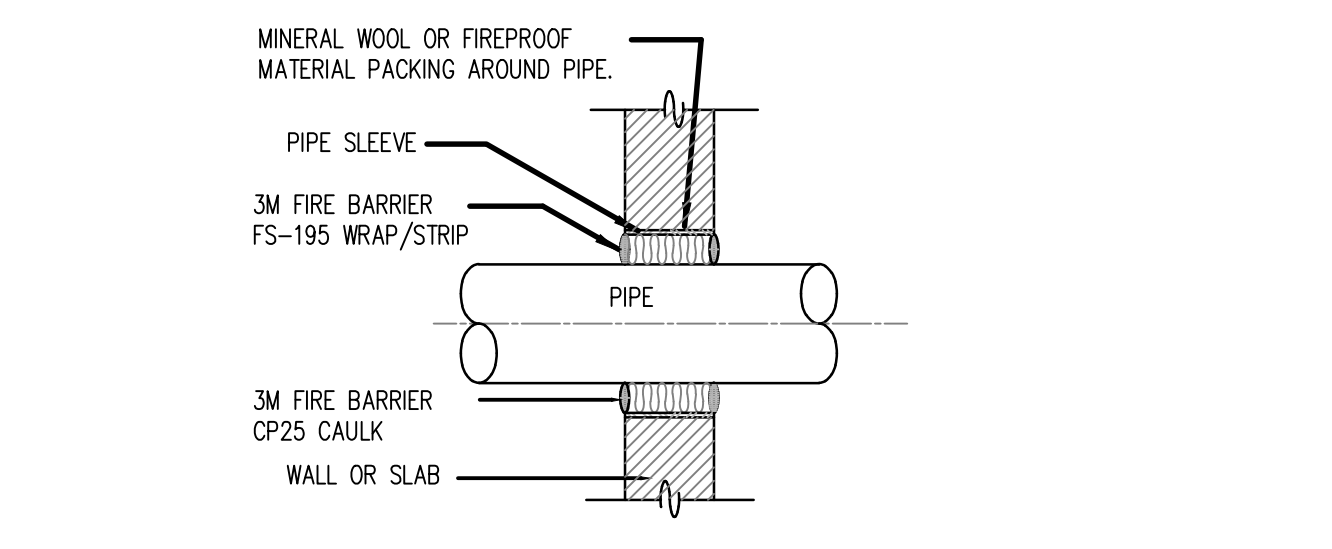
3 GAS-FIRED TANKLESS WATER HEATER MANIFOLD PIPING DETAIL
SCALE: NONE



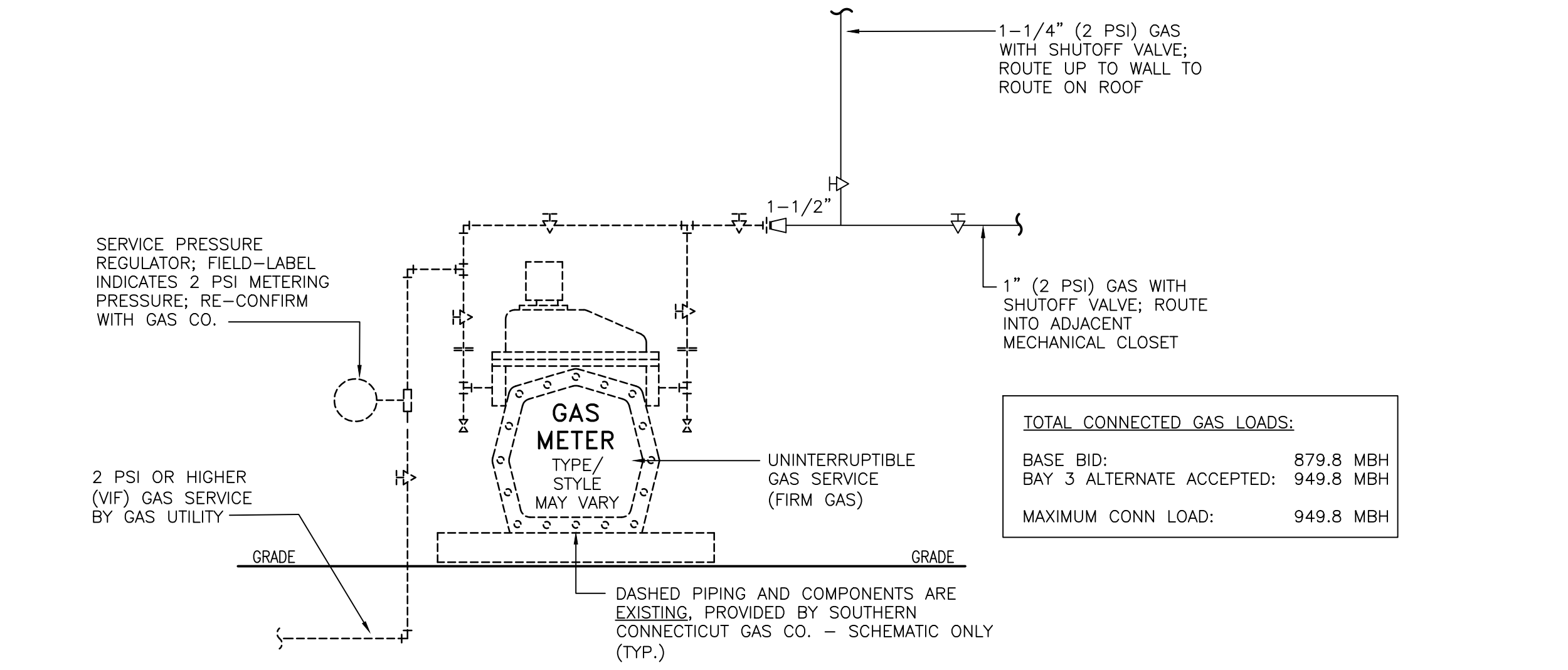
2 TP-1 TRAP PRIMER DETAIL
SCALE: NONE



7 PIPE THROUGH WALL
SCALE: NONE



4 DETAIL OF FIREPROOFING OF PIPES PIERCING WALLS, SHAFT WALLS, ETC
SCALE: NONE



1 PROPOSED GAS SERVICE ARRANGEMENT DETAIL
SCALE: NONE

| ABBREVIATIONS | | | |
|----------------------------|------------------------------------|--------|---|
| (NOT ALL SYMBOLS ARE USED) | | | |
| (###) | CFM | FC | FORWARD CURVE |
| AD | ACCESS DOOR | FD | FIRE DAMPER WITH ACCESS DOOR |
| AFF | ABOVE FINISHED FLOOR | FF | FINAL FILTER |
| APD | AIR PRESSURE DROP | FBO | FURNISHED AND INSTALLED BY OTHERS |
| BTU | BRITISH THERMAL UNIT | FIN FL | FINISH FLOOR |
| CAP | CAPACITY | FL | FLOOR |
| CC-# | COOLING COIL | FLA | FULL LOAD AMPERES |
| CD | CEILING DIFFUSER | FLEX | FLEXIBLE |
| CFM | CUBIC FEET PER MINUTE | FPF | FINS PER FOOT |
| CG | CEILING GRILLE | FPV | FAN POWERED VAV BOX |
| CLG | CEILING | FT | FEET |
| CR | CEILING REGISTER | FV | FACE VELOCITY |
| CTD | CEILING TRANSFER DUCT | GC | GENERAL CONTRACTOR |
| DBA | DECIBELS | GRUH | GAS FIRED UNIT HEATER |
| DB | DRY BULB | H-O-A | HAND-OFF-AUTOMATIC |
| DD | DIRECT DRIVE | HP | HORSEPOWER |
| DDC | DIRECT DIGITAL CONTROL | HTG | HEATING |
| DIFF | DIFFUSER | HTR | HEATER |
| DH | DEHUMIDIFIER | HVAC | HEATING, VENTILATING & AIR CONDITIONING |
| DP | DEWPOINT TEMPERATURE | HX | HEAT EXCHANGER |
| DX | DIRECT EXPANSION | ID | INSIDE DIMENSION |
| E-# | EXHAUST FAN | IN | INCHES |
| EAT | ENTERING AIR TEMPERATURE | KW | KILOWATT |
| EER | ENERGY EFFICIENCY RATIO | KWH | KILOWATT HOUR |
| EG | EXHAUST GRILLE | LAT | LEAVING AIR TEMPERATURE |
| ENT | ENTERING | LRA | LOCKED ROTOR AMPERES |
| HEPA | HIGH EFFICIENCY PARTICULATE FILTER | LVG | LEAVING |
| ESP | EXTERNAL STATIC PRESSURE | MAT | MIXED AIR TEMPERATURE |
| EUH | ELECTRIC UNIT HEATER | MAX | MAXIMUM |
| EWH | ELECTRIC WALL HEATER | MBH | 1000 BTUS |
| EX | EXISTING | MCA | MINIMUM CIRCUIT AMPACITY |
| EXH | EXHAUST | MD | MOTORIZED DAMPER |
| F | DEGREES FAHRENHEIT | MFS | MAXIMUM FUSE SIZE |
| FA | FACE AREA | MIN | MINIMUM |
| FBO | FURNISHED BY OTHERS | NC | NORMALLY CLOSED |
| | INSTALLED BY HVAC SUBCONTRACTOR | NC | NOISE CRITERIA |
| | | NFA | NET FREE AREA |
| | | NC | NOT IN THIS CONTRACT |
| | | NO | NORMALLY OPEN |
| | | NTS | NOT TO SCALE |
| | | OA | OUTSIDE AIR |
| | | OAT | OUTDOOR AIR TEMPERATURE |
| | | OAI | OUTDOOR AIR INTAKE |
| | | OBD | OPPOSED BLADE DAMPER |
| | | OD | OUTSIDE DIMENSION |
| | | PD | PRESSURE DROP |
| | | PH | PHASE |
| | | PSI | POUND PER SQUARE INCH |
| | | RA | RETURN AIR |
| | | RAT | RETURN AIR TEMPERATURE |
| | | REG | REGISTER |
| | | RH | RELATIVE HUMIDITY |
| | | RM | ROOM |
| | | RPM | REVOLUTIONS PER MINUTE |
| | | RTU-# | ROOFTOP AIR CONDITIONING UNIT |
| | | SA | SUPPLY AIR |
| | | SF-# | SUPPLY AIR FAN |
| | | SAT | SUPPLY AIR TEMPERATURE |
| | | SD | SMOKE DAMPER |
| | | SG | SUPPLY GRILLE |
| | | SP | STATIC PRESSURE |
| | | SQ FT | SQUARE FOOT (AREA) |
| | | SWR | SIDE WALL REGISTER |
| | | TSTAT | THERMOSTAT |
| | | TD | TEMPERATURE DIFFERENCE |
| | | TEMP | TEMPERATURE |
| | | TG | AIR TRANSFER GRILLE |
| | | TRD | TRANSFER DUCT TYPICAL |
| | | VD | VOLUME DAMPER |
| | | VE | VOLUME EXTRACTOR |
| | | VSP | VARIABLE SPEED FAN SWITCH |
| | | W/ | WITH |
| | | WB | WET BULB |
| | | WMS | WIRE MESH SCREEN |
| | | WT | WEIGHT (LBS) |

| SYMBOL LEGEND | | | |
|----------------------------|--|--|---|
| (NOT ALL SYMBOLS ARE USED) | | | |
| | RETURN GRILLE | | MECHANICAL NOTE REFERENCE NUMBER INDICATES NOTE |
| | THERMOSTAT/SENSOR | | VOLUME DAMPER |
| | PRESSURE SENSOR | | DUCT STATIC PRESSURE SENSOR |
| | DIRECTION OF FLOW | | MOTORIZED DAMPER |
| | POINT OF CONNECTION | | SUPPLY OR OUTSIDE AIR DUCT UP OR CSD |
| | RETURN OR EXHAUST DUCT UP | | SUPPLY OR OUTSIDE AIR DUCT DOWN |
| | SUPPLY OR OUTSIDE AIR DUCT UP | | RETURN OR EXHAUST DUCT UP OR CRG/CRR |
| | SMOKE DAMPER | | RETURN OR EXHAUST DUCT DOWN |
| | COMBINATION FIRE AND SMOKE DAMPER | | RECTANGULAR TO ROUND TRANSITION |
| | WALL MOUNTED SENSOR | | TRANSITION |
| | DUCT MOUNTED HUMIDITY SENSOR | | DUCT WORK, DIRECTION OF FLOW |
| | DUCT MOUNTED CARBON DIOXIDE SENSOR | | POSITIVE PRESSURE DUCT |
| | WALL MOUNTED HUMIDITY SENSOR | | NEGATIVE PRESSURE DUCT |
| | WALL MOUNTED COMBINATION HUMIDITY & TEMPERATURE SENSOR | | CHANGE OF ELEVATION, RISE (R) DROP (D) |
| | CARBON MONOXIDE SENSOR | | DOUBLE LINE LINED DUCT WORK |
| | NITROUS OXIDE SENSOR | | SINGLE LINE LINED DUCT WORK |
| | SMOKE DETECTOR | | DIRECTION OF SUPPLY OR OUTSIDE AIR |
| | FIRE DAMPER W/ ACCESS DOOR | | DIRECTION OF RETURN OR EXHAUST AIR |
| | DUCT ACCESS DOOR | | BACK DRAFT DAMPER |

GENERAL

- THE INTENT OF THESE CONTRACT DOCUMENTS IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THESE MECHANICAL AND ELECTRICAL SYSTEMS INCLUDE PLUMBING, FIRE PROTECTION, HVAC, ELECTRICAL AND ALL ASSOCIATED SPECIAL SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS, OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS PROJECT MANUAL AND PLANS INCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID.
- ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO FORM A TOTAL DESIGN PACKAGE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.
- ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY CODE.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF LIGHT FIXTURES AND MOUNTING HEIGHTS OF EQUIPMENT, INCLUSIVE OF RECEPTACLES, SWITCHES, THERMOSTATS, ETC. ALL SUCH EQUIPMENT AND COLORS SHALL BE COORDINATED WITH THE ARCHITECT. CONTACT ARCHITECT FOR CLARIFICATION OF MOUNTING REQUIREMENTS, IF INFORMATION IS NOT CONTAINED IN THE DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY AGENCIES HAVING JURISDICTION.
- ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN UNACCESSIBLE CEILING OR WALL, THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. THESE SHALL BE COORDINATED WITH THE ARCHITECT.
- WHEN CONFLICTS OCCUR BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR SHALL CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEMS.
- CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.
- CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH FIRE STOPPING SEALANT WHERE REQUIRED.
- ELECTRICAL CONDUITS & BOXES TO BE CONCEALED IN WALLS OR ABOVE CEILING WHEREVER POSSIBLE.
- COORDINATE ALL PIPING AND CONDUITS LEAVING THE BUILDING WITH THE SITE CONTRACTOR(S) BEFORE INSTALLATION.
- PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT.
- PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
- LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP/DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS AND OTHER CONCEALED MECHANICAL EQUIPMENT.
- ALL EQUIPMENT, PIPING, DUCT WORK SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- LOCATION AND SIZES OF ALL FLOOR, WALL, AND ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- INSTALL COMPLETE OPERATING SYSTEMS. PROVIDE ALL COMPONENTS, DEVICES, CONTROLS, RELAYS, TRANSFORMERS, ETC., WHETHER INDICATED OR NOT, FOR COMPLETE SYSTEMS AS INTENDED BY THE CONSTRUCTION DOCUMENTS.
- SOME PART OF THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION. REFER TO PHASING PLAN FOR MORE INFORMATION. MAINTAIN EXISTING SERVICES TO OCCUPIED AREAS. SEAL ALL DUCTWORK AND VENTILATION OPENINGS COMMUNICATING CONSTRUCTION AREAS WITH OCCUPIED AREAS TO PREVENT THE TRANSFER OF AIR CONTAMINATED BY CONSTRUCTION ACTIVITIES.
- ALL PENETRATIONS THRU RATED WALLS, FLOORS & CEILINGS SHALL BE SEALED USING UL LISTED METHODS APPROPRIATE FOR INDICATED RATING.

HVAC

- PIPING AND DUCT WORK LAYOUTS AS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS AS REQUIRED FOR COORDINATION WITH BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES.
- PROVIDE VOLUME DAMPERS, THROTTLING VALVES AND ISOLATION VALVES AS SPECIFIED AND AS INDICATED ON THE DRAWINGS.
- PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS OF FIRE RATED PARTITIONS.
- PROVIDE SMOKE DETECTORS ON THE SUPPLY AND RETURN SIDE OF ALL AIR HANDLING EQUIPMENT 2000 CFM AND OVER.
- THE TEMPERATURE CONTROL SYSTEM SHALL BE COMPLETE IN ALL REGARDS, TESTED AND CAPABLE OF ACHIEVING THE SEQUENCES OF OPERATION. ALL DEVICES SHALL BE UNDER SYSTEM CONTROL. ALL ZONES SHALL BE THERMOSTATICALLY CONTROLLED WHETHER OR NOT A THERMOSTAT, SENSOR OR CONTROLLER IS INDICATED.
- MAINTAIN MANUFACTURER'S RECOMMENDED MINIMUM CLEARANCES FOR INSTALLATION OF EQUIPMENT.
- FLEX DUCT RUNS SHALL NOT BE LONGER THAN 5 FT.
- PROVIDE VOLUME DAMPERS AT ALL SUPPLY DIFFUSERS, RETURN GRILLES, AND EXHAUST GRILLES.
- PROVIDE VANDAL RESISTANT COVERS THERMOSTATS, AS NOTED.
- ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS.
- PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS SHALL BE UNVANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
- COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING AND OTHER CEILING ITEMS.
- PROVIDE INSULATED FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO AIR HANDLING UNITS, FANS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, COILS AND OTHER ITEMS LOCATED IN DUCTWORK WHICH REQUIRE SERVICE OR INSPECTION.
- PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL FANS, VALVES AND MECHANICAL EQUIPMENT.
- DUCTWORK SHALL BE PRESSURE TESTED AND SEALED FOR LEAKAGE.
- THE SUPPLY AIR SYSTEM SHALL BE PURGED TO ENSURE ALL FOREIGN PARTICLES ARE REMOVED PRIOR TO FINAL CONNECTION OF SUPPLY AIR DIFFUSERS.
- ALL DUCTWORK SHALL BE PROVIDED WITH INSULATION IN ACCORDANCE WITH THE 2012 INTERNATIONAL ENERGY CONSERVATION CODE.

RENOVATION

- THIS PROJECT IS AN EXISTING FACILITY RENOVATION.
- BEFORE SUBMITTING HIS/HER BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT ON HIS FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS.
- IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY PIECE OF EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING USED SHALL BE REMOVED INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES AND CONTROLS BACK TO THE POINT OF ORIGIN.
- NO EQUIPMENT, PIPING OR CONDUIT SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED.
- PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT AND MATERIALS IN COMPLIANCE WITH CODES AND REGULATIONS.
- RELOCATE EXISTING EQUIPMENT, PIPING, WIRING AND RELATED SYSTEMS TO REMAIN AS REQUIRED FOR CONSTRUCTION. EXTEND FEEDER/CONDUIT AND PROVIDE RECONNECTIONS FOR SYSTEM TO BE FULLY OPERATIONAL. ALL RELOCATED EQUIPMENT SHALL BE PROTECTED DURING CONSTRUCTION.
- PROVIDE TEMPORARY CONNECTIONS AND SYSTEM MODIFICATIONS AS REQUIRED FOR CONSTRUCTION.
- GENERAL CONTRACTOR IS RESPONSIBLE OF PATCHING, REPAIRING, CAPPING, ETC. PER DEMOLITION AND CONSTRUCTION.

Project Title:

Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525



SILVER / PETRUCCI + ASSOCIATES
Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340
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Revision: Description: Date: Revised By:

| Revision | Description | Date | Revised By |
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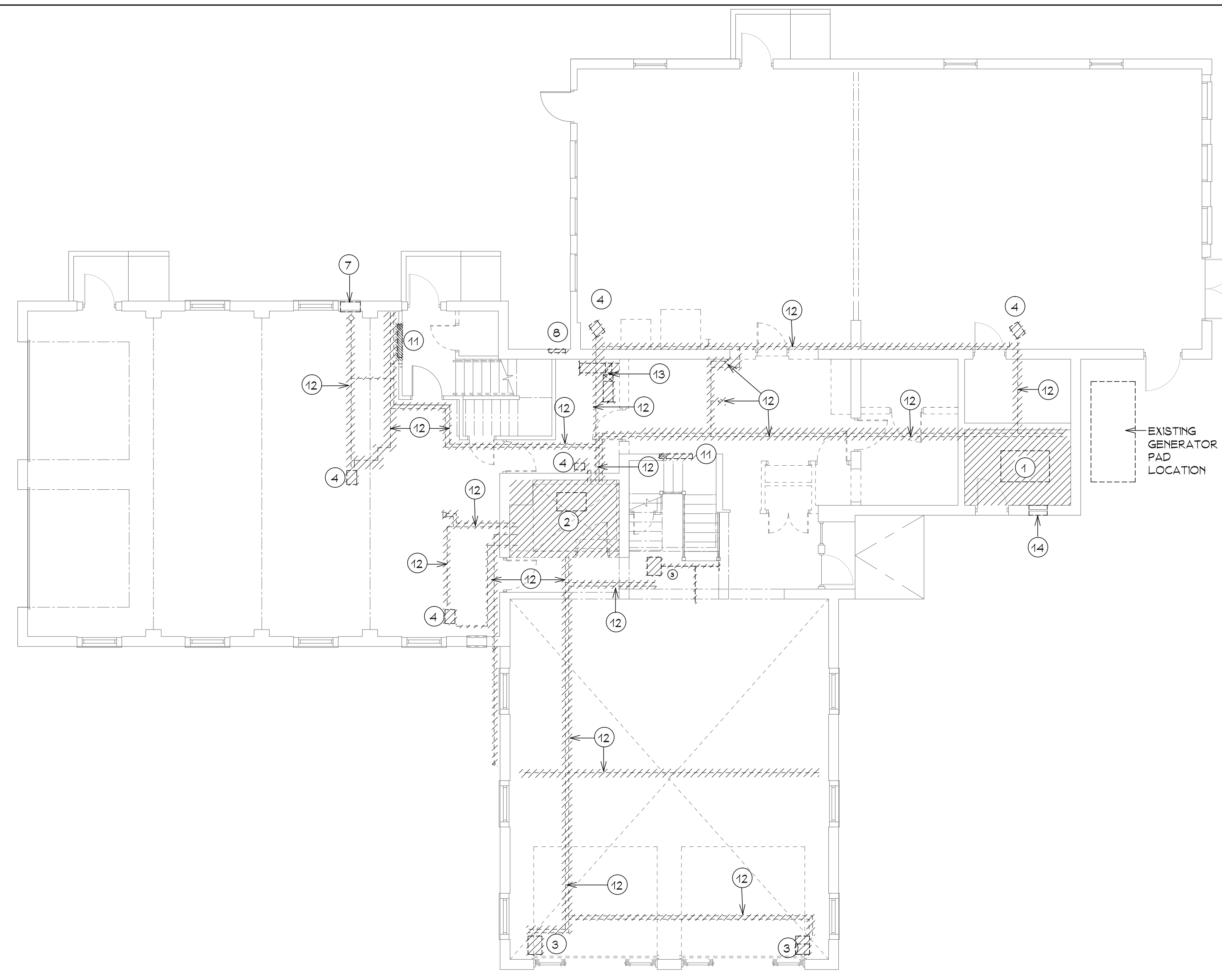
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MECHANICAL NOTES, LEGEND
AND ABBREVIATIONS

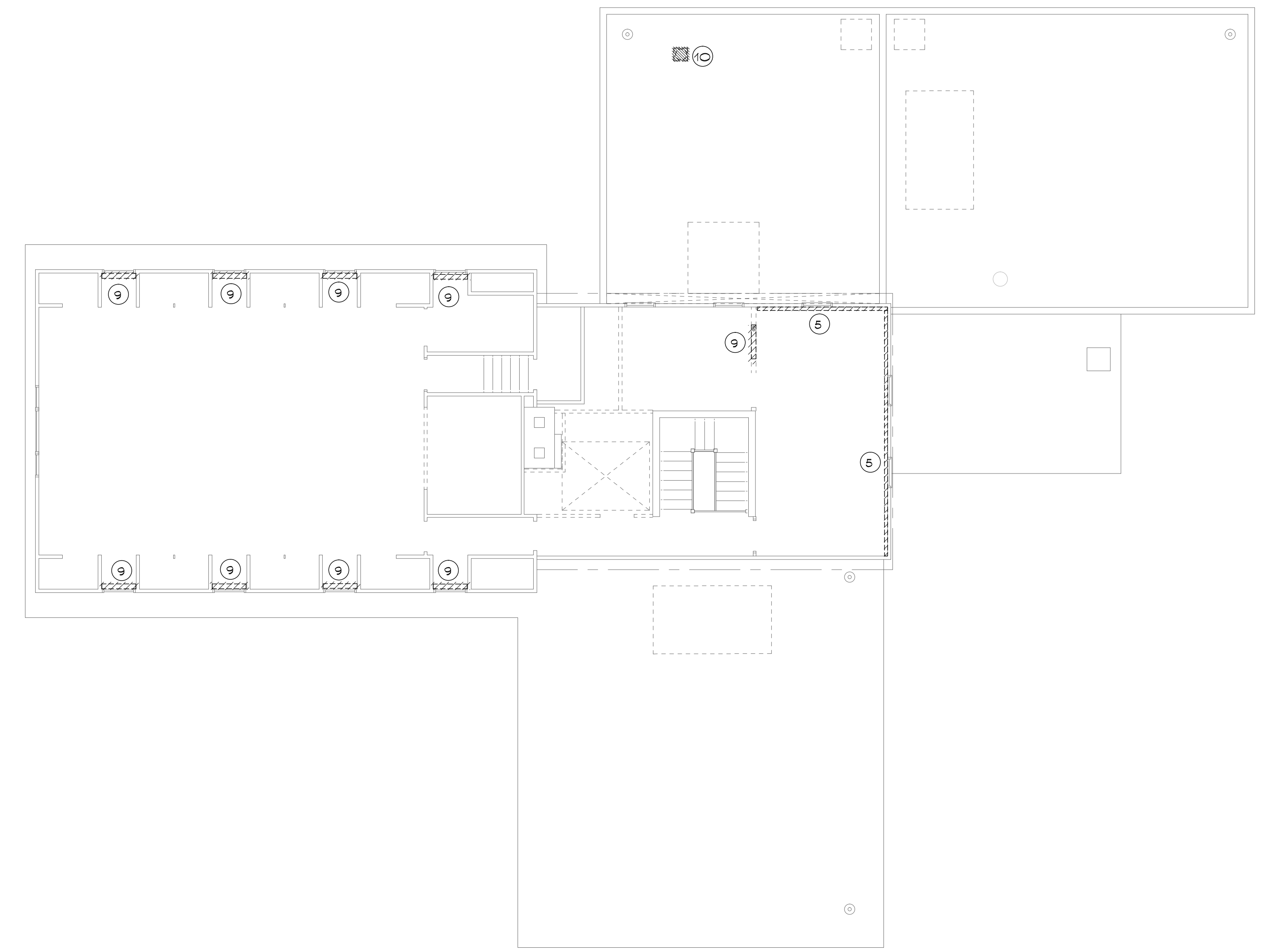
Date: Drawing Number:

5.19.16
Scale: NONE
Drawn By: AMG
Project Number: 11.147

M1



FIRST FLOOR MECHANICAL DEMOLITION PLAN 1
 SCALE: 1/8" = 1'-0"
 NORTH



SECOND FLOOR MECHANICAL DEMOLITION PLAN 2
 SCALE: 1/8" = 1'-0"
 NORTH

DEMOLITION LEGEND

| SYMBOL | DESCRIPTION |
|--------|--|
| | EXISTING EQUIPMENT TO BE REMOVED |
| | EXISTING PIPING OR EQUIPMENT TO BE REMOVED |
| | EXISTING PIPING OR EQUIPMENT TO REMAIN |
| | EXISTING DIFFUSER TO BE REMOVED |
| | EXISTING GRILLE TO BE REMOVED |

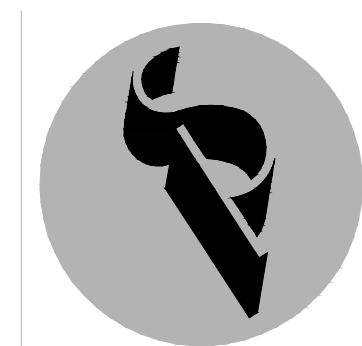
GENERAL DEMOLITION NOTES

1. THE INTENT OF THIS DEMOLITION PLAN IS TO DISCONNECT, REMOVE AND DISPOSE ALL EXISTING MECHANICAL EQUIPMENT, PIPING AND PIPING SPECIALTIES, EXISTING DUCTWORK AND ALL ASSOCIATED HANGER, SUPPORT AND INSULATION. THE EXISTING CONDITIONS REPRESENTED HEREON ARE BASED ON GENERAL LOCATIONS OF EXISTING COMPONENTS IN THE FIELD AND ARE SHOWN ON THIS DRAWING FOR CONTRACTORS REFERENCE ONLY. ACTUAL LOCATION OF EQUIPMENT, DUCTWORK AND EXTENT OF DUCTWORK ROUTING, PIPING AND EXTENT OF PIPING LENGTH AND ROUTING AND UTILITIES MAY VARY IN FIELD. MECHANICAL CONTRACTOR SHALL VERIFY LOCATIONS IN FIELD AND MAKE ALLOWANCE IN BID FOR LOCATIONS AND ARRANGEMENTS OTHER THAN SHOWN.
2. THE DEMOLITION NOTES ARE FOR DESCRIPTIVE GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL ITEMS WHETHER OR NOT INDICATED AND/OR NOTED ON THE DRAWINGS. INCLUSION OF THESE EXISTING CONDITIONS HEREON SHALL IN NO WAY ALLEVIATE THE CONTRACTOR(S) OF HIS RESPONSIBILITY TO VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS.
3. ALL WASTE MATERIALS AND EQUIPMENT SHALL BE REMOVED FROM SITE AND SHALL BE LEGALLY DISPOSED BY THE CONTRACTOR.
4. NO WORK SHALL BE LEFT INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUTOFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION.
5. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND PIPING SYSTEM, CONFERENCE WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON.
6. COORDINATE SHUTDOWN OF EXISTING SERVICES AND TAPPING OF EXISTING PIPING WITH OWNER'S MAINTENANCE PERSONNEL. NO WORK SHALL TAKE PLACE UNTIL DONE SO.
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL TRADES.
8. ENSURE THAT POWER IS SECURED OFF PRIOR TO COMMENCING EQUIPMENT REMOVAL. SECURE POWER BACK TO PANEL FOR EQUIPMENT BEING REMOVED.
9. COORDINATE PATCHING OF ALL FLOORS AND WALLS OPENINGS AFTER REMOVAL OF EXISTING PIPING AND DUCTWORK.

PLAN DEMOLITION NOTES

1. EXISTING BOILER AND ALL NEAR BOILER PIPING IN THIS ROOM TO BE REMOVED. BOILER AND ASSOCIATED PIPING AND SPECIALTIES AND INSULATION SHALL BE DISPOSED PROPERLY BY THIS CONTRACTOR. REMOVE EXISTING FLUE PIPING CONNECTION TO CHIMNEY. PATCH HOLE OPENING AT CHIMNEY CONNECTION.
2. EXISTING STEAM CONDENSATE PUMP AND ALL ASSOCIATED STEAM, STEAM CONDENSATE DRAIN AND CONTROLS LOCATED IN THIS ROOM TO BE REMOVED.
3. EXISTING RECESSED STEAM CABINET UNIT VENTILATOR AND ALL ASSOCIATED DUCTWORK, HANGERS, CONTROLS, STEAM AND STEAM CONDENSATE PIPING AND SPECIALTIES TO BE REMOVED.
4. EXISTING STEAM UNIT HEATER AND ALL ASSOCIATED CONTROLS, STEAM AND STEAM CONDENSATE PIPING AND SPECIALTIES TO BE REMOVED.
5. EXISTING FINNED TUBE RADIATION AND ALL ASSOCIATED PIPING AND CONTROLS TO BE REMOVED.
6. EXISTING PIPING AND ALL ASSOCIATED INSULATION AND HANGERS, AND ALL BRANCH FEED TO SECOND FLOOR TO BE REMOVED.
7. EXISTING LOUVER TO REMAIN
8. EXISTING EXHAUST AIR WALL CAP TERMINATION TO BE REMOVED
9. EXISTING CONVECTOR AND ALL ASSOCIATED PIPING AND CONTROLS TO BE REMOVED.
10. EXISTING ROOF MOUNTED SIREN AND/OR ANNUNCIATOR. COORDINATE WITH OWNER IF THE EQUIPMENT STAYS OR TO BE RELOCATED. PATCHING OF ROOF BY DIVISION 7
11. EXISTING RECESSED STEAM CABINET UNIT HEATER AND ALL ASSOCIATED CONTROLS, STEAM AND STEAM CONDENSATE PIPING AND SPECIALTIES TO BE REMOVED.
12. EXISTING PIPING, PIPING STUB UPS, PIPING SPECIALTIES AND ALL ASSOCIATED INSULATION AND HANGERS TO BE REMOVED.
13. EXISTING DUCTWORK AND HANGER TO BE REMOVED
14. EXISTING LOW INTAKE AND HIGH RELIEF LOUVERS TO REMAIN

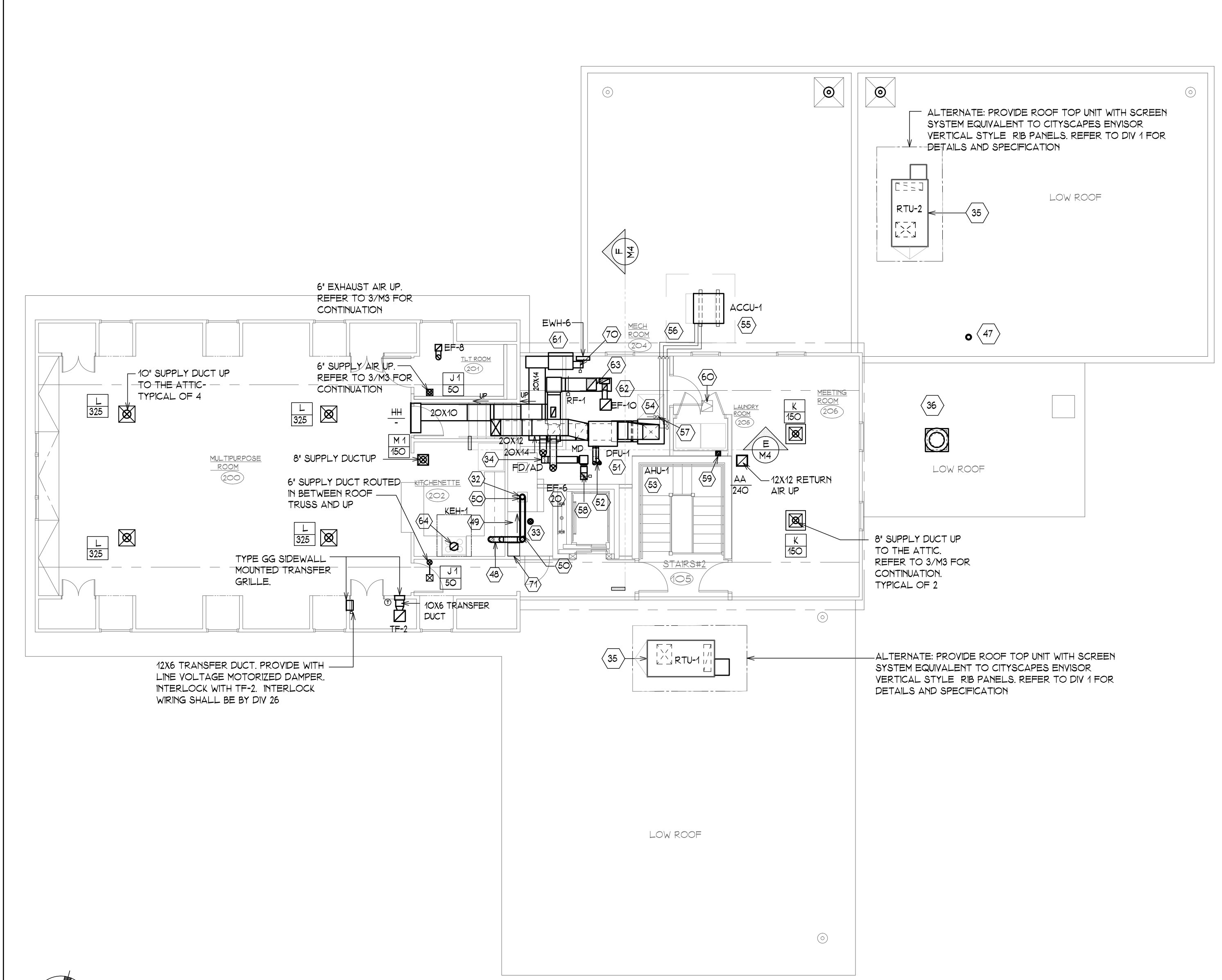
Project Title:
 Renovations to:
 Old Woodbridge Fire Station
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 Woodbridge, Connecticut 06525



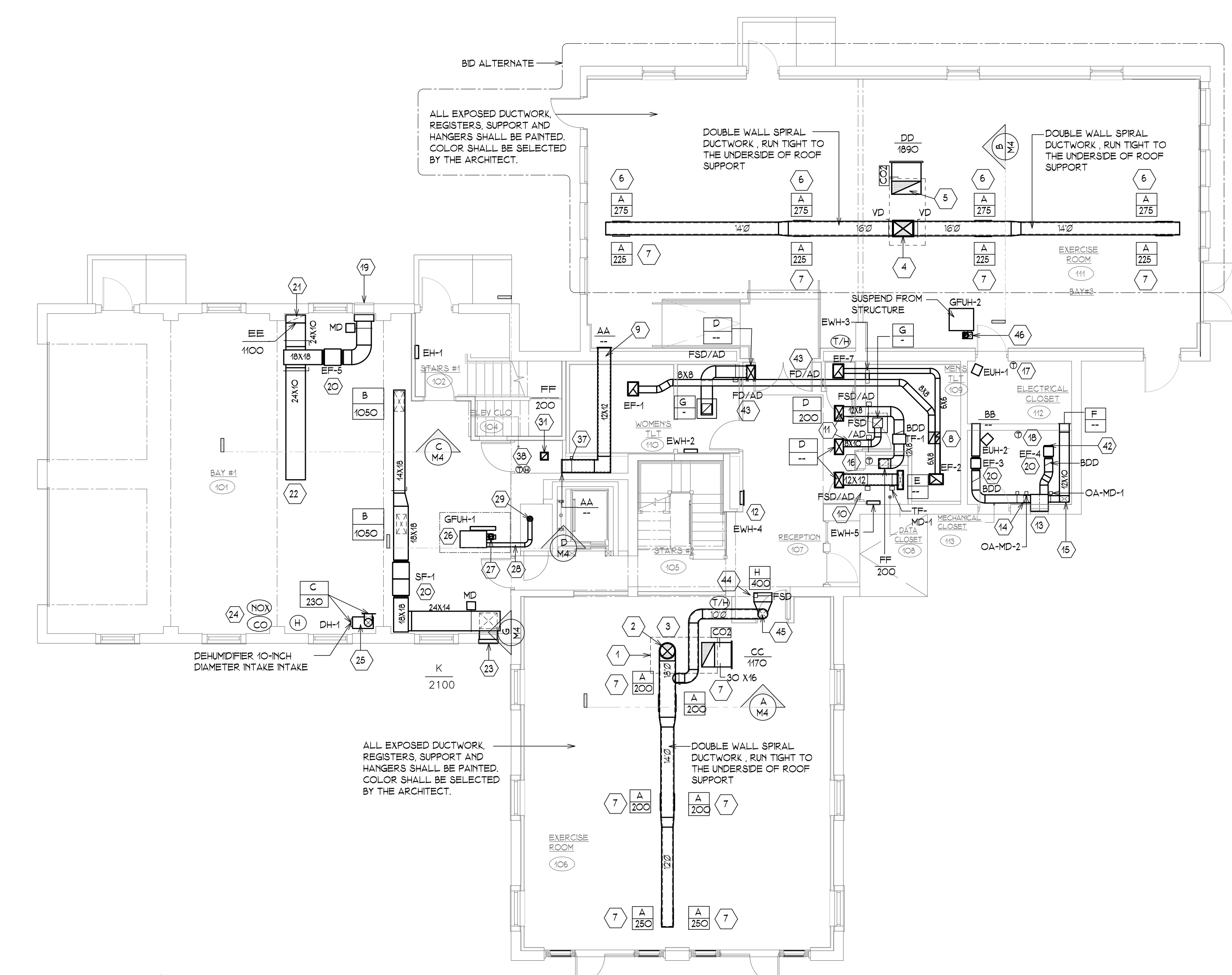
SILVER / PETRUCCELLI + ASSOCIATES
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 3190 Whitney Avenue, Hamden, CT 06518-2340
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| Revision: | Description: | Date: | Revised By: |
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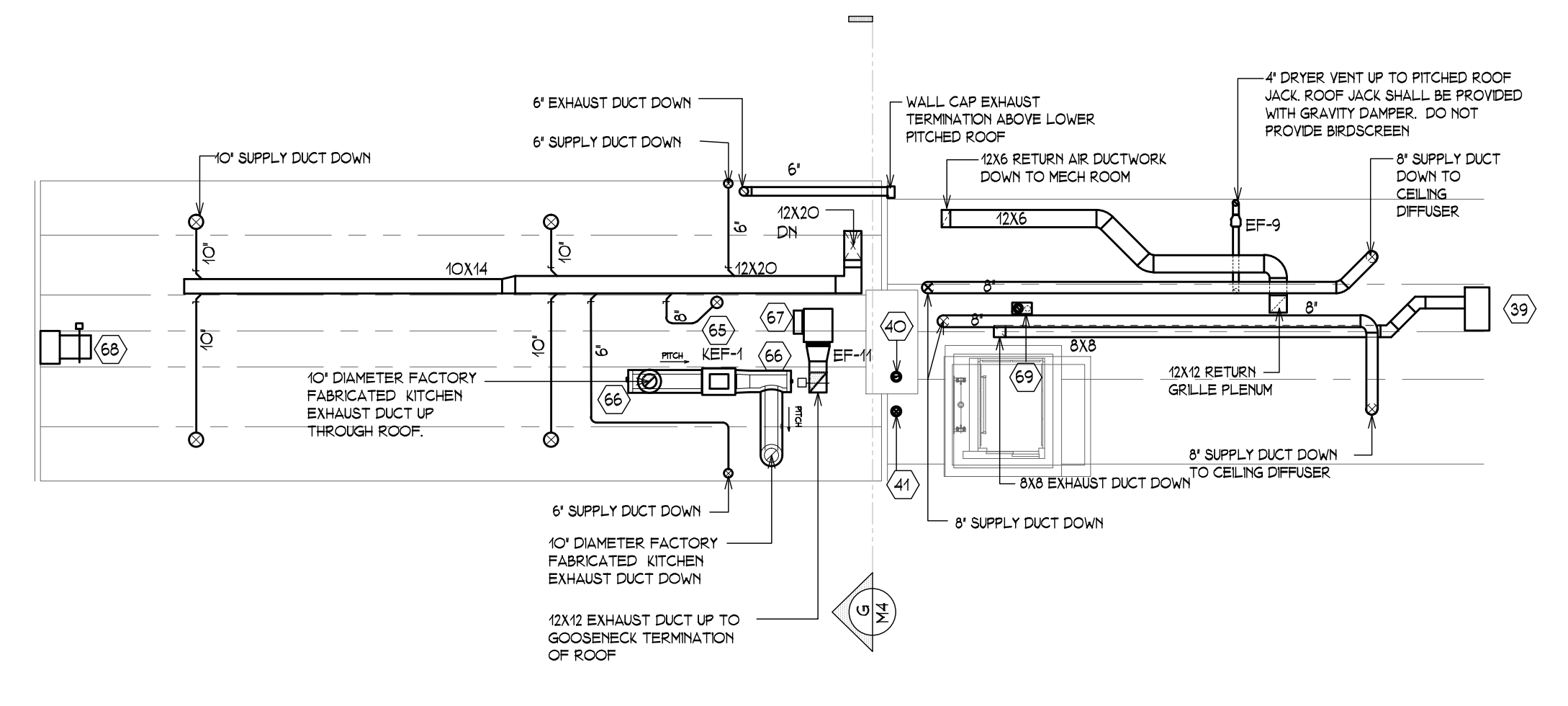
Project Title:
MECHANICAL DEMOLITION PLANS
 Date: 5/18/18
 Scale: AS NOTED
 Drawn By: AMG
 Project Number: 11,147
M2



SECOND FLOOR MECHANICAL PLAN 2
SCALE: 1/8" = 1'-0"



FIRST FLOOR MECHANICAL PLAN 1
SCALE: 1/8" = 1'-0"



MECHANICAL ATTIC PLAN 3
SCALE: 1/8" = 1'-0"

PLAN NOTES

1. OUTLINE OF ROOFTOP UNIT ABOVE
2. DOUBLE WALL SPIRAL SUPPLY AIR DUCTWORK UP TO RTU-1 ON ROOF. RUN DUCTWORK IN BETWEEN ROOF JOIST. COORDINATE EXACT LOCATION OF ROOF PENETRATION IN FIELD. FRAMING OF OPENING SHALL BE UNDER DIVISION 5 AND 7.
3. 30x6 EXPOSED RETURN AIR DUCTWORK UP TO RTU-1 ON ROOF. RUN DUCTWORK IN BETWEEN ROOF JOIST. COORDINATE EXACT LOCATION OF ROOF PENETRATION IN FIELD. FRAMING OF OPENING SHALL BE UNDER DIVISION 5 AND 7. TERMINATE RETURN AIR HIGH IN THE STRUCTURE. PROVIDE TERMINATION WITH GRILLE SECURED PROPERLY IN DUCTWORK. PROVIDE RIGID INSULATION WITH PAINTABLE JACKET.
4. 24x20 EXPOSED SUPPLY AIR DUCTWORK UP TO RTU-2 ON ROOF. RUN DUCTWORK IN BETWEEN ROOF JOIST. COORDINATE EXACT LOCATION OF ROOF PENETRATION IN FIELD. FRAMING OF OPENING SHALL BE UNDER DIVISION 5 AND 7. PROVIDE WITH RIGID INSULATION WITH PAINTABLE JACKET.
5. 30x6 EXPOSED RETURN AIR DUCTWORK UP TO RTU-2 ON ROOF. RUN DUCTWORK IN BETWEEN ROOF JOIST. COORDINATE EXACT LOCATION OF ROOF PENETRATION IN FIELD. FRAMING OF OPENING SHALL BE UNDER DIVISION 5 AND 7. TERMINATE RETURN AIR HIGH IN THE STRUCTURE. PROVIDE TERMINATION WITH GRILLE SECURED PROPERLY IN DUCTWORK. PROVIDE RIGID INSULATION WITH PAINTABLE JACKET.
6. MOUNT REGISTER AT 25 DEGREES BELOW THE HORIZONTAL AXIS
7. MOUNT REGISTER AT 30 DEGREES BELOW THE HORIZONTAL AXIS
8. 8x14 EXHAUST FROM EF-1 6x6 EXHAUST DUCT FROM EF-2 AND 6x6 EXHAUST DUCT FROM EF-7 UP TO ROOF MOUNTED EXHAUST VENTILATOR. ROUTE EXHAUST DUCTWORK INSIDE RELIEF VENTILATOR ROOF CURB. TERMINATE EACH DUCTWORK AT THE TOP OF THE ROOF CURB. TOP OF THE CURB SHALL BE PROVIDED WITH SHEETMETAL WITH OPENINGS TO ACCOMMODATE EXHAUST DUCT TERMINATIONS TO PREVENT EXHAUST FROM SPILLING INTO ADJACENT EXHAUST TERMINATIONS AND/OR SPILLING INTO THE CURB CAVITY.
9. 12x12 LINED TRANSFER DUCT. CONNECT TO 12x12 CEILING N TUBING AND TO 12x12 SIDE WALL GRILLE IN EXERCISE ROOM #11
10. 12x12 LINED TRANSFER DUCT. CONNECT TO CEILING GRILLE IN DATA CLOSET AND TO 12x12 CEILING GRILLE IN RECEPTION #7
11. PROVIDE COMBINATION FIRE AND SMOKE DAMPER AT WALL PENETRATION PROVIDE DUCT MOUNTED ACCESS DOOR ABOVE ACCESSIBLE CEILING. COMBINATION FIRE AND SMOKE DAMPER AND LINE VOLTAGE DAMPER ACTUATOR SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. SMOKE DETECTOR SHALL BE BY DIVISION 28. WIRING TO ACTUATOR AND FIRE ALARM SHALL BE BY DIVISION 28 AND DIVISION 28.
12. TRANSFER DUCT. PROVIDE COMBINATION FIRE AND SMOKE DAMPER AT WALL PENETRATION. PROVIDE DUCT MOUNTED ACCESS DOOR ABOVE ACCESSIBLE CEILING. COMBINATION FIRE AND SMOKE DAMPER AND LINE VOLTAGE DAMPER ACTUATOR SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. SMOKE DETECTOR SHALL BE BY DIVISION 28. WIRING TO ACTUATOR AND FIRE ALARM SHALL BE BY DIVISION 28 AND DIVISION 28.
13. SSM-1 RECESSED ELECTRIC WALL HEATER
14. EXISTING HIGH EXHAUST AIR LOUVER AND EXISTING LOW OUTSIDE AIR TAKE LOUVER. EXHAUST AND INTAKE LOUVER SHALL BE PROVIDED WITH A MINIMUM OF 2-INCH DEEP INSULATED PLENUM. PROVIDE PLENUM WITH SHEETMETAL DIVIDER. COORDINATE EXACT LOUVER SIZE IN FIELD.
15. 12x12 OUTSIDE AIR. TERMINATE IN MECHANICAL ROOM WITH WIRE MESH SCREEN. PROVIDE WITH MOTORIZED AIR DAMPER WITH LINE VOLTAGE ACTUATOR. OA-MD-2 INTERLOCK WITH EF-4 LINE VOLTAGE INTERLOCK WIRING SHALL BE BY DIVISION 28. COORDINATE
16. 12x12 OUTSIDE AIR DROP IN CORNER AND CONNECT TO OUTSIDE AIR PLENUM. PROVIDE WITH MOTORIZED AIR DAMPER WITH LINE VOLTAGE ACTUATOR. OA-MD-1 INTERLOCK WITH EF-3 LINE VOLTAGE INTERLOCK WIRING SHALL BE BY DIVISION 28. COORDINATE LINE VOLTAGE REVERSE ACTING THERMOSTAT. INTERLOCK WITH TP-1 AND LINE VOLTAGE TRANSFER AIR MOTORIZED AIR DAMPER ACTUATOR. OA-MD-2. ALL LINE VOLTAGE INTERLOCK WIRING SHALL BE PROVIDED BY DIVISION 28
17. LINE VOLTAGE REVERSE ACTING THERMOSTAT. INTERLOCK WITH EF-3 AND LINE VOLTAGE OUTSIDE AIR MOTORIZED AIR DAMPER ACTUATOR. OA-MD-1. ALL LINE VOLTAGE INTERLOCK WIRING SHALL BE PROVIDED BY DIVISION 28
18. LINE VOLTAGE REVERSE ACTING THERMOSTAT. INTERLOCK WITH EF-4 AND LINE VOLTAGE OUTSIDE AIR MOTORIZED AIR DAMPER ACTUATOR. OA-MD-2. ALL LINE VOLTAGE INTERLOCK WIRING SHALL BE PROVIDED BY DIVISION 28
19. EXISTING EXHAUST AIR LOUVER TO PROVIDED WITH 20" DEEP INSULATED PLENUM. COORDINATE EXACT LOUVER SIZE IN FIELD. PLENUM SHALL BE EXTENDED UP HIGH EXHAUST CONNECTION SHALL BE NEAR THE TOP OF PLENUM. COORDINATE EXACT ELEVATION IN FIELD.
20. IN-LINE FAN SUSPENDED FROM THE STRUCTURE. PROVIDE VIBRATION ISOLATOR. MOUNT BOTTOM OF FAN AT 6'-8" AFF
21. 24x10 EXHAUST AIR DOWN TO 6" ABOVE FINISHED FLOOR. PROVIDE LOW DUCT MOUNTED EXHAUST GRILLE. DUCT AND GRILLE SHALL BE FIELD PAINTED PER ARCHITECT'S SELECTED COLOR.
22. 24x10 EXHAUST AIR. TERMINATE HIGH WITH WIRE MESH SCREEN BALANCE AT 1100 CFM
23. OUTSIDE AIR LOUVER. GREENHECK MODEL ESD-45S OR EQUIVALENT. 25 SF FREE AREA WITH BRDSCREEN. PROVIDE WITH INSULATED PLENUM. EXTEND PLENUM TO CONNECT TO OUTSIDE AIR DUCTWORK.
24. HONEYWELL ESPORT STANDAONE DUAL GAS MONITOR. 120VAC WITH ONBOARD TRANSFORMER. CO WALL. SENSOR WITH REMOTE NO2 SENSOR. MOUNT CO SENSOR AT 4'-0" AFF AND NO2 SENSOR AT 2'-0" INCHES BELOW CEILING. POWER WIRING TO MONITOR SHALL BE BY DIVISION 28. ALL LOW VOLTAGE WIRING TO SENSORS SHALL BE BY MECHANICAL CONTRACTOR. COORDINATE IN FIELD.
25. DEHUMIDIFIER MOUNTED ON A 24-INCH HIGH STEEL PLATFORM. ROTATE COLLAR TO POSITION DISCHARGE UPWARDS. MECHANICAL CONTRACTOR TO PROVIDE ALL REQUIRED RELAY AND LOW VOLTAGE WIRING TO HUMIDISTAT. CONDENSATE PUMP AND CONDENSATE DRAIN SHALL BE PROVIDED BY DIVISION 22. COORDINATE WITH THE MANUFACTURER.
26. GAS FIRED UNIT HEATER SUSPENDED FROM THE STRUCTURE. PROVIDE WITH VIBRATION ISOLATOR. PROVIDE UNIT WITH OSHA COMPLIANT FAN GUARD. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S CLEARANCE REQUIREMENTS. MOUNT BOTTOM OF UNIT AT 6'-8" AFF. MECHANICAL CONTRACTOR SHALL PAINT A VISIBLE WARNING SIGN USING HIGH HEAT PAINT. AT THE BOTTOM OF UNIT HEATER. MECHANICAL CONTRACTOR TO PROVIDE ALL VOLTAGE WIRING REQUIRED TO INTERLOCK UNIT TO FACTORY PROVIDE CONTROLS AND THERMOSTAT. COORDINATE REQUIREMENTS
27. 8" FLUE PIPING FROM UNIT HEATER CONNECTION UP TO SECOND FLOOR. FLUE PIPING SHALL BE UL-175B AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S CLEARANCE REQUIREMENTS TO COMBUSTIBLE. SUPPORT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
28. 8" COMBUSTION AIR PIPING. HORIZONTAL AIR PIPING SHALL BE SINGLE WALL. FITCH HORIZONTAL PIPE DOWNWARD 1/4-INCH PER FOOT TOWARDS THE DOUBLE WALL INSULATED TEE LOCATED AT THE BOTTOM OF THE STACK. SUPPORT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
29. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. PROVIDE TEE WITH DRIP LEG AND CLEANOUT CAP AT THE BOTTOM OF THE STACK. GENERAL CONTRACTOR TO PROVIDE ACCESS PANEL AT THE GENERAL LOCATION OF THE TEE WITH DRIP LEG AND CLEANOUT CAP FOR ACCESS. COORDINATE LOCATION
30. 8" INSULATED DOUBLE WALL UL-175B FLUE PIPING UP AND INTO THE EXISTING CHIMNEY CAVITY. PROVIDE WITH 45 DEGREE ELBOWS AT ALL CHANGE OF DIRECTION. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. GENERAL CONTRACTOR SHALL PROVIDE OPENING FOR EXISTING CHIMNEY FOR SUPPORT ACCESS AND INSTALLATION. COORDINATE LOCATION
31. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
32. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
33. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
34. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
35. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
36. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
37. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
38. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
39. 8" INSULATED DOUBLE WALL COMBUSTION AIR PIPING UP THROUGH THE ROOF AND DOWN. SUPPORT VERTICAL PIPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
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GENERAL NOTES

1. REFER TO M1 FOR ABBREVIATIONS AND M6 FOR DETAILS
2. PROVIDE DAMPER AT EVERY BRANCH TAKE-OFF WHETHER OR NOT INDICATED IN PLANS
3. RATED WALL PENETRATIONS SHALL BE PROVIDED WITH THE REQUIRED FIRE STOP SYSTEM
4. DELIVER ALL DUCT SECTIONS WITH SEALED ENDS TO PREVENT DEBRIS FROM GETTING INSIDE. SEAL OPEN ENDS AS WORK PROGRESS UNTIL ALL DIFFUSERS, REGISTERS AND GRILLES ARE INSTALLED.
5. ALL DIFFUSER BOOTS, DIFFUSER BACKPANS, RETURN AIR GRILLE PLENUM BOX SHALL BE PROVIDED WITH INSULATION WITH MINIMUM INSTALLED R VALUE AS FOLLOWS:
 - R8 WHEN INSTALLED INSIDE THE BUILDING ENVELOPE
 - R9 WHEN INSTALLED IN THE ATTIC OUTSIDE OF THE BUILDING ENVELOPE
6. ALL EXPOSED SPIRAL DUCTWORK SHALL BE DOUBLE WALL AND SHALL BE FIELD PAINTED PER ARCHITECT'S SELECTED COLOR.
7. ALL EXPOSED DUCT MOUNTED DIFFUSERS IN EXERCISE ROOMS SHALL BE FIELD PAINTED PER ARCHITECT'S SELECTED COLOR.
8. ALL EXPOSED RECTANGULAR DUCTWORK SHALL BE PROVIDED WITH RIGID INSULATION AND PAINTABLE JACKET AND SHALL BE FIELD PAINTED PER ARCHITECT'S SELECTED COLOR.
9. ALL EXPOSED EQUIPMENT SHALL BE FIELD PAINTED PER ARCHITECT'S SELECTED COLOR.
10. INSIDE SURFACES OF ALL DIFFUSER BOOTS AND RETURN AIR GRILLE PLENUM THAT ARE VISIBLE FROM THE DIFFUSER/GRILLE SHALL BE PAINTED FLAT BLACK.

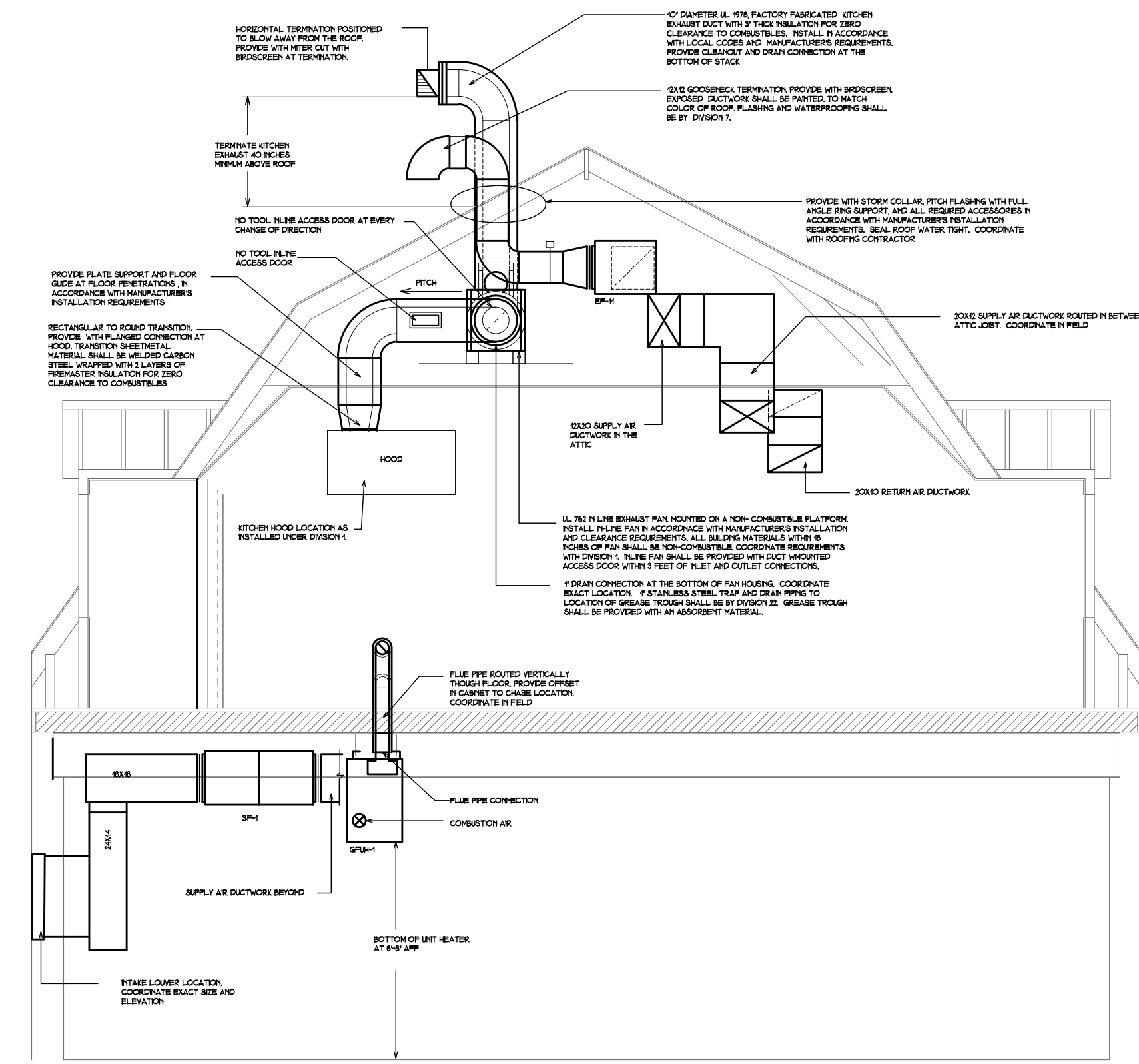
Project Title:
Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525

SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

| Revision | Description | Date | Revised By |
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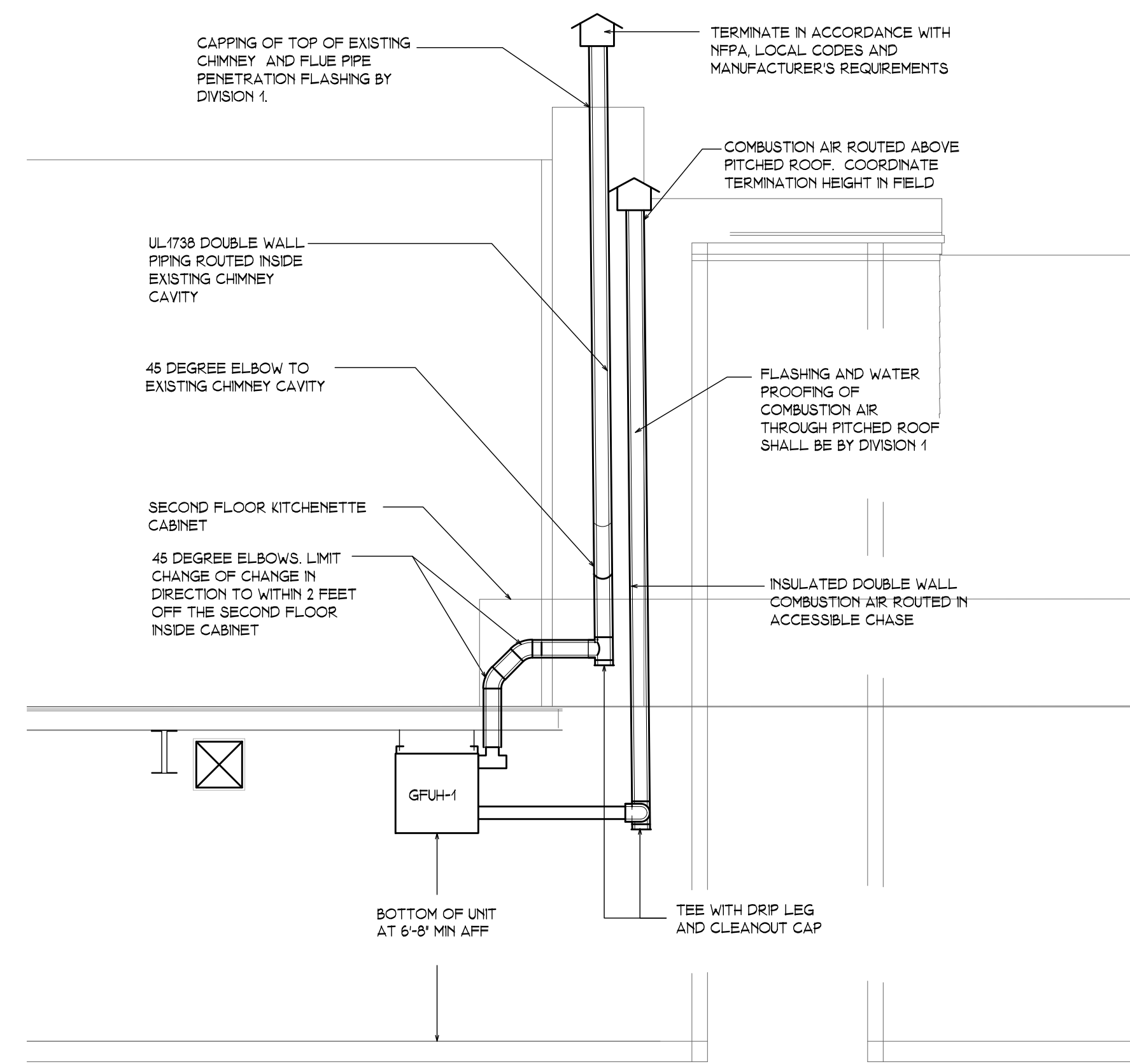
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Date:
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Drawn By:
AMG
Project Number:
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M3



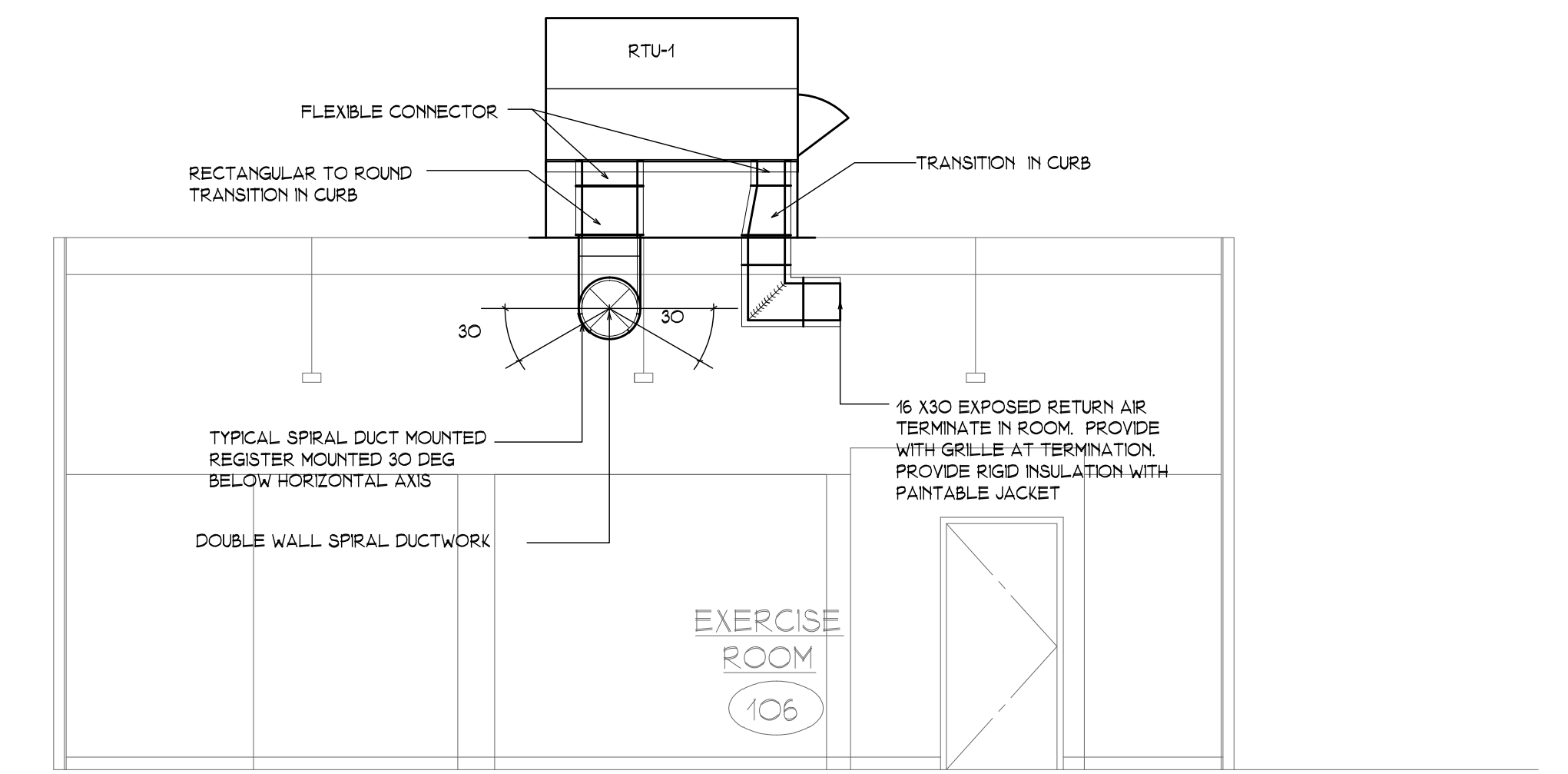
SECTION THRU BAY #1, SECOND FLOOR KITCHENETTE AND ATTIC

NTS G M4



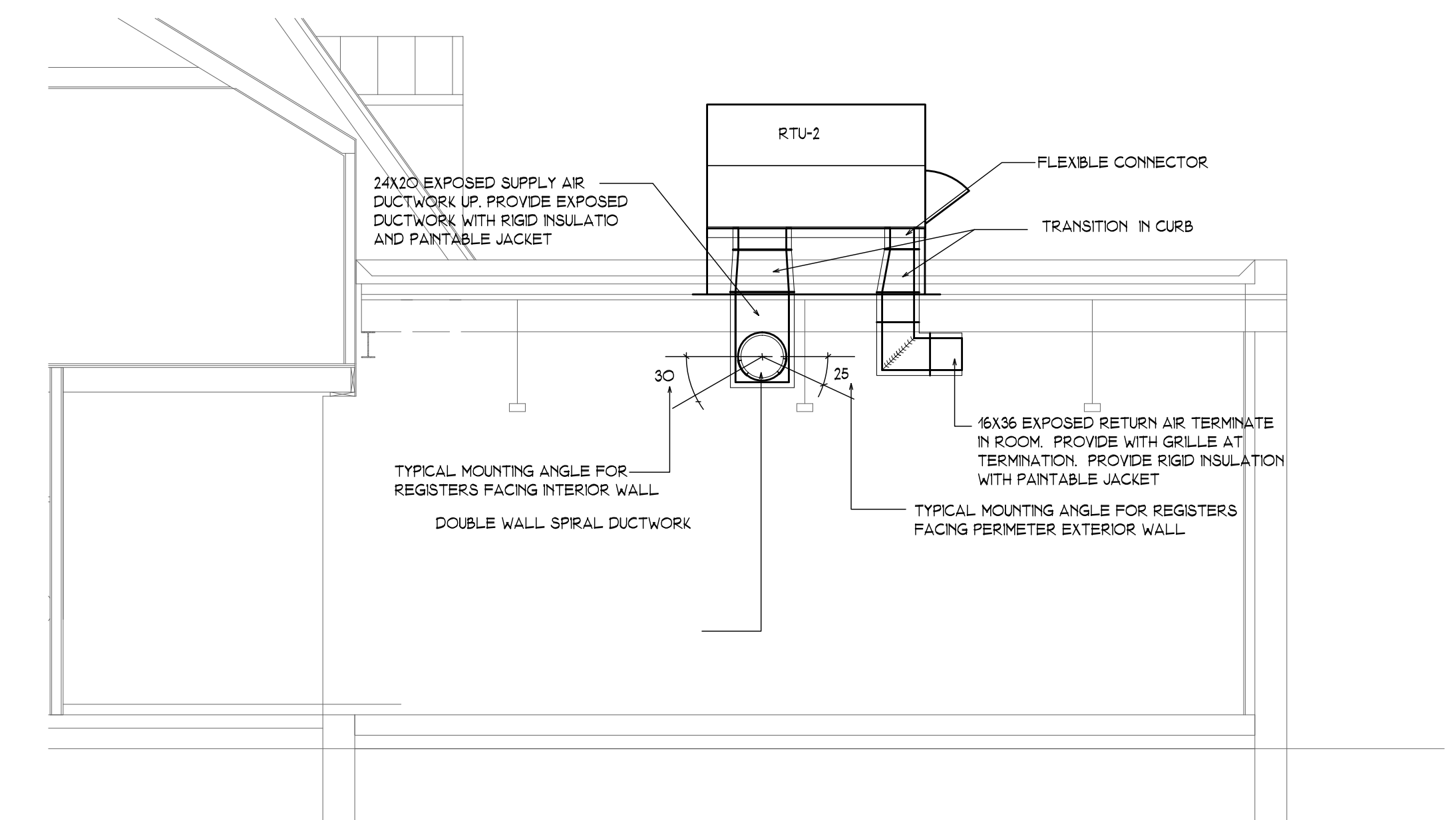
BAY #1 SECTION THRU GFUH

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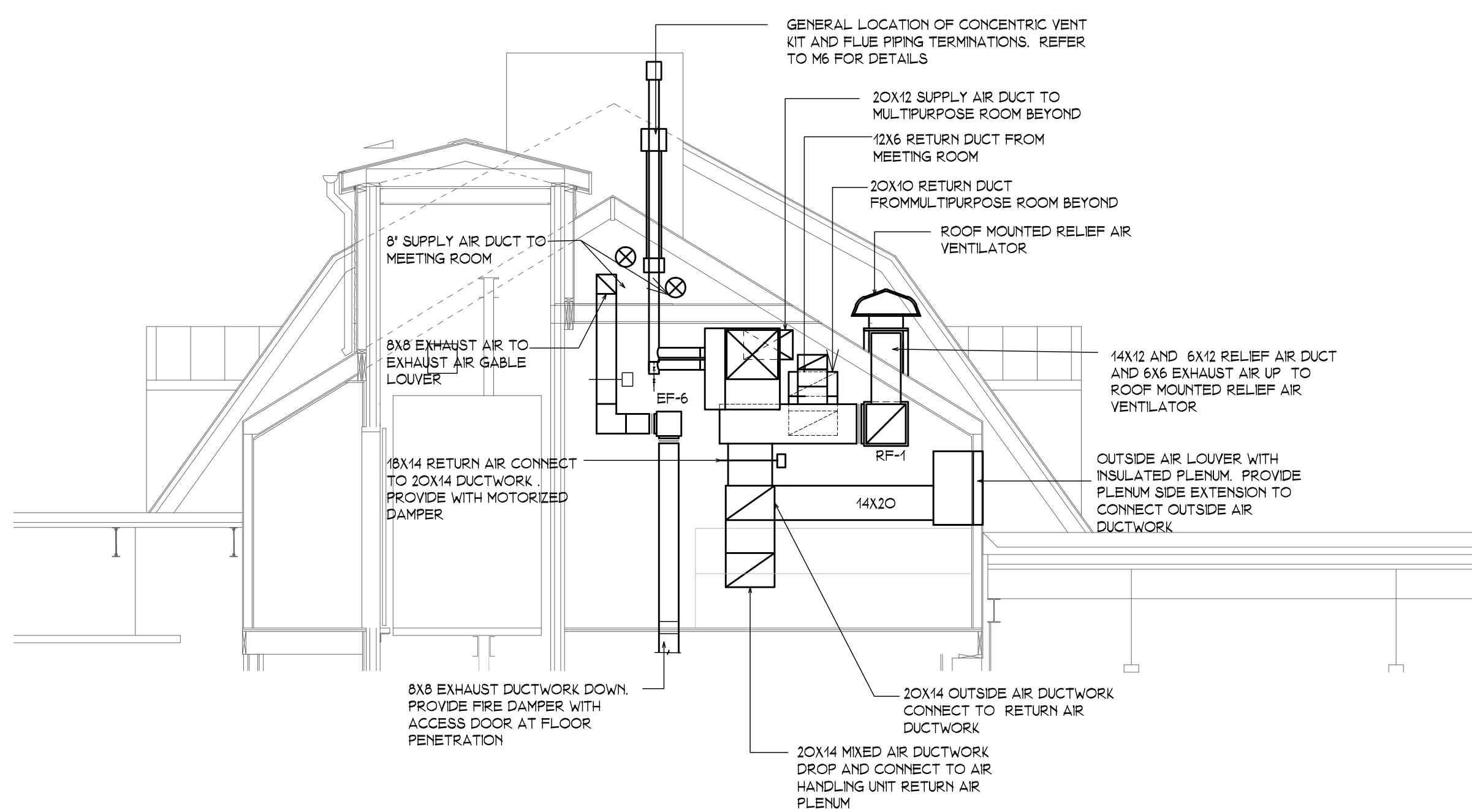
SECTION THRU RTU-1

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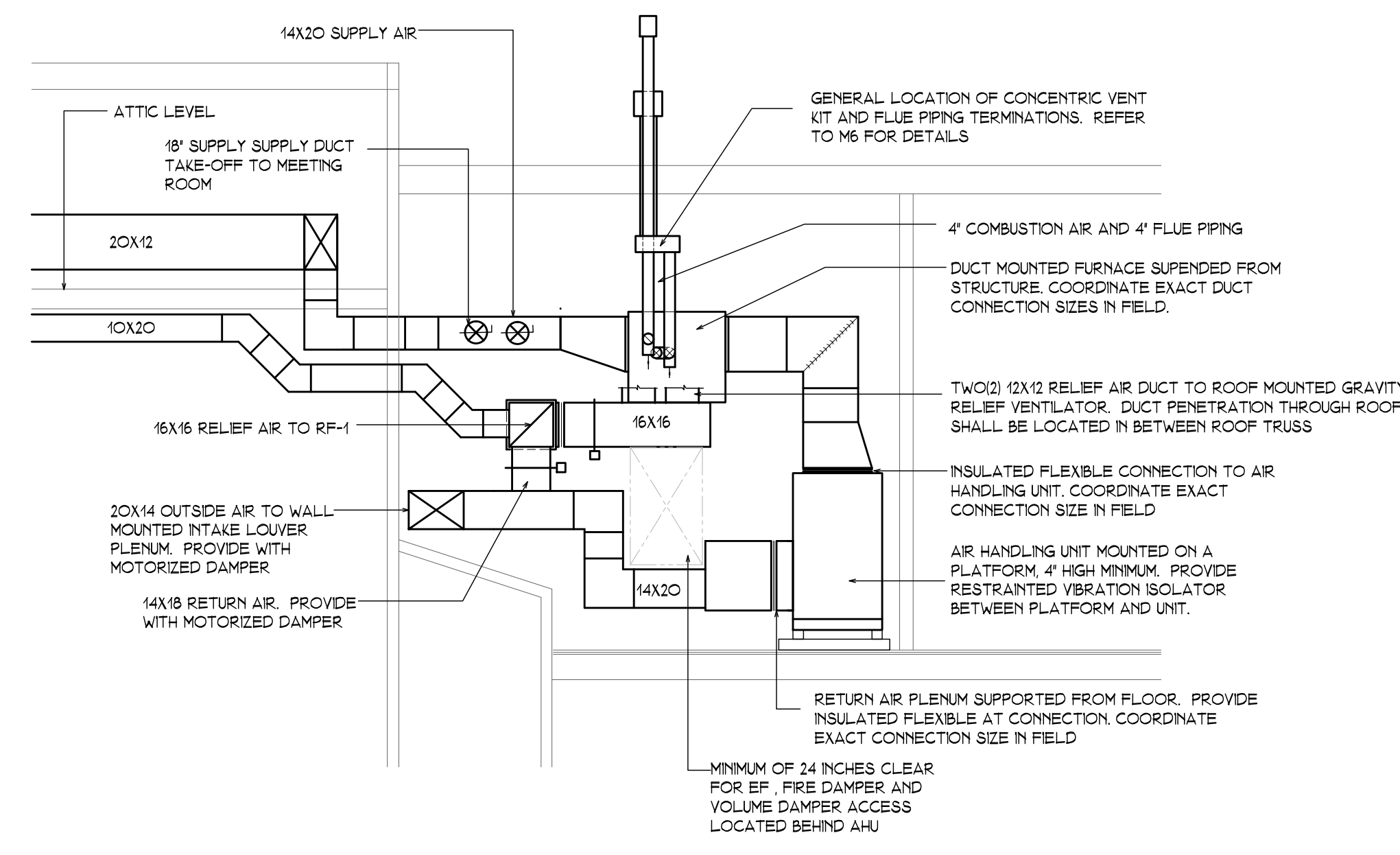
SECTION THRU RTU-2

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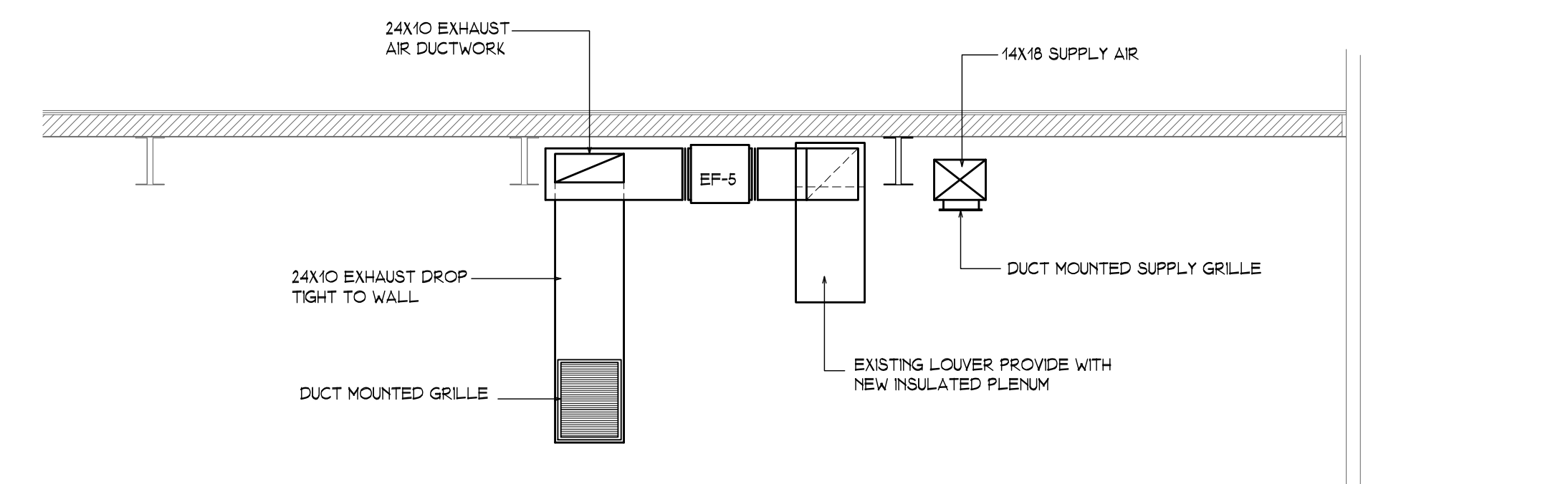
SECTION THRU MECH ROOM 204

NTS F M4



SECTION THRU MECH ROOM 204

NTS E M4



BAY #1 SECTION

NTS C M4



| TAG | UNIT SERVED | MANUFACTURER AND MODEL | DIMENSION | WEIGHT (LBS) | ELECTRICAL V-PH/Hz | INPUT CAPACITY | REMARKS |
|-------|-------------|------------------------|----------------------|--------------|--------------------|----------------|---------|
| DFU-1 | AHU-1 | MOORE DFS150 | 28.7L X 17.8W X 3.4H | 206 | 115/1/60 | 150 MBH | 1 TO 5 |

REMARKS:
 1. SUSPEND FROM STRUCTURE
 2. ELECTRONIC MODULATING GAS CONTROL WITH EXTERNAL 0-10 VDC INPUT
 3. 409 STAINLESS STEEL HEAT EXCHANGER
 4. REFER TO SECTION 230993 FOR SEQUENCE OF OPERATION
 5. PROVIDE WITH CONCENTRIC VENT BOX

| TAG | MANUFACTURER AND MODEL | ELECTRICAL | | | OUTSIDE AIR | | | SUPPLY AIR FAN | | | | COOLING PERFORMANCE | | | | HOT GAS REHEAT PERFORMANCE | | | NATURAL GAS HEATING | | | | OUTSIDE AIR FILTER | DIMENSION | UNIT WEIGHT W/O CURB WT | AREA SERVED | REMARKS | | | | | | | | | | | |
|-------|------------------------|------------|---------|----------|-------------|-------------------------------|--------------------------------|----------------------|-------------|---------|---------------|---------------------|------|------|----------------------|----------------------------|-----------|---------------|---------------------|-----------|------------------|--------------------|--------------------|-----------|-------------------------|-------------|----------|-------|-------|-----------------|------------------------|------------|------------|---------|------------------------|---------|-------------------|----------------|
| | | V-PH/Hz | MCA AMP | MOCF AMP | FLA AMP | FIRST MN POSITION (BALANCING) | SECOND MN AT MAXIMUM OCCUPANCY | MAXIMUM (ECONOMIZER) | NOMINAL CFM | SP N WG | FAN SPEED RPM | BHP | HP | TYPE | COOLING TOTAL BTU/HR | CAPACITY SENSIBLE BTU/HR | EAT DB/WB | COL LAT DB/WB | NO OF ROWS | AMBIENT F | CAPACITY CONTROL | QTY | | | | | | REFNT | EER | CAPACITY BTU/HR | REHEAT COL LAT F DB/WB | INPUT MBH | OUTPUT MBH | EAT (F) | LAT RANGE (F) | CONTROL | PRESSURE IN WC | |
| RTU-1 | AAON MODEL RQ-005 | 208/60/1 | 48 | 70 | 41 | 170 | 1000 | 1700 | 1700 | 163 | 0.75 | 1348 | 0.79 | 1.0 | ECM | 69300 | 42170 | 81/70 | 57.46/57.20 | 4 | 95 | DIGITAL MODULATING | 1 | R410A | 12.4 | 22000 | 72/62.52 | 140 | 113.4 | 24 | 90-95 | MODULATING | 6-14 | MERV 13 | 82.5L X 44.25W X 50.5H | 1100 | EXERCISE ROOM 106 | 1 TO 4, 6 TO 9 |
| RTU-2 | AAON MODEL RQ-005 | 208/60/1 | 48 | 70 | 41 | 210 | 1420 | 2100 | 2100 | 213 | 0.75 | 1569 | 1.33 | 2.0 | ECM | 76760 | 49150 | 81/70 | 58.96/58.43 | 6 | 95 | DIGITAL MODULATING | 1 | R410A | 12.7 | 30000 | 72/63.12 | 160 | 129.6 | 24 | 90-95 | MODULATING | 6-14 | MERV 13 | 82.5L X 44.25W X 50.5H | 1200 | EXERCISE ROOM 111 | 1 TO 9 |

REMARKS:
 1. MANUFACTURER SHALL PROVIDE STANDALONE CONTROLLER AND ALL REQUIRED SENSORS TO PERFORM THE REQUIRED SEQUENCE OF OPERATION REFER TO SECTION 230993. ALL LOW VOLTAGE WIRING SHALL BE BY DIVISION 23
 2. SEISMICALLY SUPPORT. PROVIDE INSULATED, SPRING ISOLATED SEISMIC CURB, 24" HIGH, CAMBRIDGEPORT OR EQUIVALENT.
 3. SINGLE POINT CONNECTION. MANUFACTURER SHALL PROVIDE DISCONNECT SWITCH. FACTORY WIRED GFI RECEPTACLE POWERED BY AN INDEPENDENT 120VOLT POWER SOURCE BY DIV 26.
 4. UNIT TO HAVE GFI RECEPTACLE POWERED BY AN INDEPENDENT 120VOLT POWER SOURCE. COORDINATE WITH DIV 26
 5. SMOKE DETECTORS AT SUPPLY DUCTWORK AS PROVIDED BY DIV. 28. INSTALL BY DIV. 23. CONNECTION TO FIRE ALARM SYSTEM BY DIV. 28
 6. UNIT SHALL BE PROVIDED WITH FULLY MODULATING HOT GAS REHEAT
 7. PROVIDE WITH DUAL ENTHALPY ECONOMIZER.
 8. UNIT MANUFACTURER TO PROVIDE CONDENSATE OVERFLOW SENSOR AT DRAIN PAN.
 9. REFER TO SPECIFICATION SECTION FOR MORE INFORMATION

| TAG | UNIT SERVED | MODEL | NOMINAL TONS | AMBIENT TEMP DB (F) | EER | VOLTS/PH/Hz | MOCF | MCA | FLA | NUMBER OF COMPRESSORS | RATED LOAD (AMP) | CAPACITY CONTROL | QTY | HP | FLA | RPM | DIMENSION | WEIGHT (LBS) | REMARKS |
|--------|-------------|--------------|--------------|---------------------|------|-------------|------|-----|-----|-----------------------|------------------|-------------------|-----|------|-----|------|-----------------------|--------------|---------|
| ACCU-1 | AHU-1 | AAON C86-060 | 5.0 | 95 | 10.6 | 208/1/60 | 60 | 35 | 29 | 1 | 26 | VARIABLE CAPACITY | 1 | 0.33 | 2.8 | 1075 | 36.44L X 37W X 42.52H | 300 | 1 TO 5 |

REMARKS:
 1. MOUNT ON ROOF MOUNTED SUPPORT RAIL AS PROVIDED BY DIVISION 23 AND INSTALLED UNDER DIVISION 7
 2. DISCONNECT SWITCH BY DIVISION 26
 3. COMPRESSOR WITH INTERNAL OVER TEMPERATURE AND PRESSURE PROTECTION. HERMETIC MOTOR. PROVIDE WITH SOUND BURNET
 4. PROVIDE WITH MODULATING HT GAS REHEAT OPTION
 5. PROVIDE INTERCONNECTING REFRIGERANT LIQUID SUCTION AND HOT GAS REHEAT PIPING. REFER TO MANUFACTURER'S MANUAL FOR SIZES BASED ON ROUTING SHOWN ON DRAWINGS

| SYMBOL | AREA SERVED | MANUFACTURER AND MODEL | ELECTRICAL | | | OUTSIDE AIR (CFM) | | SUPPLY FAN | | | | DIRECT EXPANSION COIL | | | | HOT GAS REHEAT COIL | | FILTER | DIMENSION | WEIGHT (LBS) | UNIT ORIENTATION | REMARKS | | | | |
|--------|--------------|------------------------|------------|---------|----------|-------------------|----------------------|--------------------------|-------------|-----------|-----------|-----------------------|----------|-----|------|---------------------|----------|-----------|-------------|--------------|------------------|---------|-------------------|-------------|---|-------------|
| | | | V-PH/Hz | MCA AMP | MOCF AMP | FLA AMP | MIN AT MAX OCCUPANCY | MIN WHEN LEAF IS RUNNING | NOMINAL CFM | TSP IN WG | ESP IN WG | RPM | MOTOR HP | BHP | TYPE | TC (MBH) | SC (MBH) | | | | | | EAT F DB/WB | LAT F DB/WB | CAPACITY (MBH) | LAT F DB/WB |
| AHU-1 | SECOND FLOOR | AAON V3-BRB-9 | 208/1/60 | 8 | 15 | 7 | 455 | 700 | 1850 | 3.12 | 2.0 | 2326 | 23 | 159 | ECM | 60.41 | 37.95 | 78.9/68.1 | 56.97/56.55 | 30 | 72/62.1 | MERV 13 | 62.6L X 63W X 70H | 931 | LEFT HAND CONNECTIONS. TOP DISCHARGE. BACK INTAKE | 1 TO 5 |

REMARKS:
 1. MOUNT ON A HOUSEKEEPING PLATFORM. PROVIDE WITH VIBRATION ISOLATION BETWEEN UNIT AND PLATFORM
 2. DISCONNECT SWITCH SHALL BE PROVIDED BY DIVISION 26
 3. SMOKE DETECTOR AT SUPPLY DUCTWORK AS PROVIDED BY DIV 28. INSTALLED BY DIVISION 23. CONNECTION TO FIRE ALARM SYSTEM BY DIVISION 28
 4. MANUFACTURER SHALL PROVIDE STANDALONE VARIABLE VOLUME CONTROLLER AND ALL REQUIRED SENSORS TO PERFORM THE REQUIRED SEQUENCE OF OPERATION REFER TO SECTION 230993. ALL LOW VOLTAGE WIRING SHALL BE BY DIVISION 23
 5. REFER TO SPECIFICATION SECTION FOR MORE INFORMATION

| TAG | LOCATION | CFM | AIR TEMP RISE (F) | WATTS | CAPACITY (BTUH) | VOLT/PH | TOTAL AMPS | MODEL | REMARKS |
|-------|-----------------------|-----|-------------------|-------|-----------------|---------|------------|------------|---------|
| EWH-1 | STAR#1 | 160 | 30 | 1500 | 5100 | 208/1 | 7.6 | WAI SERIES | 12.36 |
| EWH-2 | WOMEN'S TL110 | 160 | 30 | 1500 | 5100 | 208V/1 | 7.6 | WAI SERIES | 12.36 |
| EWH-3 | MENS TOILET 109 | 160 | 30 | 1500 | 5100 | 208/1 | 7.6 | WAI SERIES | 12.36 |
| EWH-4 | ENTRANCE | 160 | 45 | 2250 | 7600 | 208V/1 | 11.2 | WAI SERIES | 12.56 |
| EWH-5 | DATA CLOSET 108 | 160 | 30 | 1125 | 3800 | 208/1 | 5.8 | WAI SERIES | 12.36 |
| EWH-6 | MECHANICAL CLOSET 204 | 160 | 30 | 1125 | 3800 | 208/1 | 5.8 | WAI SERIES | 12.36 |
| ELH-1 | ELECTRICAL CLOSET 112 | 300 | 24 | 2250 | 7600 | 208/1 | 11.2 | ULI SERIES | 12.4 |
| ELH-2 | MECHANICAL CLOSET 118 | 300 | 24 | 2250 | 7600 | 208/1 | 11.2 | ULI SERIES | 12.4 |

REMARKS:
 1. DISCONNECT SWITCH BY MANUFACTURER
 2. MANUFACTURER TO PROVIDE UNIT MOUNTED THERMOSTAT
 3. MANUFACTURER TO PROVIDE SURFACE MOUNTING FRAME
 4. MANUFACTURER TO PROVIDE BRACKETS
 5. MANUFACTURER TO PROVIDE 2" SEMI RECESSED TRIM KIT.
 6. COLOR TO BE SELECTED BY THE ARCHITECT

| TAG | TYPE | OVERALL DIMENSION (IN) | | | VOLUME (CFM) | SP (IN WG) | EXHAUST DUCT SIZE (IN) | WEIGHT | REMARKS |
|-------|--|------------------------|-------|--------|--------------|------------|------------------------|---------|---------|
| | | LENGTH | WIDTH | HEIGHT | | | | | |
| KEH-1 | TYPE 1 BAFFLE FILTER EXHAUST ONLY WALL CANOPY. GREENECK MODEL GHEW | 42 | 48 | 24 | 700 | 0.423 | 9 X 7 | 124 LBS | 1 TO 5 |

REMARKS:
 1. UL LISTED
 2. 18 GA STAINLESS STEEL
 3. PROVIDE WITH ALUMINUM FILTERS
 4. REFER TO MANUFACTURER'S RECOMMENDATION FOR MOUNTING HEIGHT
 5. PROVIDE WITH GREASE CUP MOUNTED ON RIGHT END OF THE HOOD
 6. PROVIDE WITH INTEGRAL 3" AIR SPACE ON BACK OF HOOD
 7. PROVIDE WITH PREWIRED MANUFACTURER PROVIDED KITCHEN FAN CONTROL CENTER
 8. PROVIDE WITH ANSUL R-102 HOOD FIRE SUPPRESSION SYSTEM. REFER TO PLUMBING DRAWING FOR MORE INFORMATION

| TAG | TYPE | VOLUME (CFM) | TSP (IN WG) | FAN RPM | ELECTRICAL VOLTS/ HP | MOTOR RPM | MANUFACTURER/ MODEL | WEIGHT | REMARKS |
|-------|-------------------------|--------------|-------------|---------|----------------------|-----------|-------------------------|---------|---------|
| KEF-1 | IN-LINE CENTRIFUGAL FAN | 700 | 125 | 2145 | 208/3 1/2 | 1725 | GREENECK MODEL TCB 1-09 | 170 LBS | 1 TO 7 |

REMARKS:
 1. UL 762
 2. CONTINUOUSLY WELDED STEEL
 3. PROVIDE MOTOR WITH GLASS F OR HIGHER INSULATION
 4. FACTORY PROVIDED DISCONNECT SWITCH
 5. MECHANICAL CONTRACTOR TO PROVIDE WITH VFD
 6. PROVIDE FAN WITH 1" DRAIN CONNECTION
 7. PROVIDE GREASE TRAP WITH DRAIN CONNECTION AND ABSORBENT MATERIAL, FOR REMOTE MOUNTING

| TAG | LOCATION | MANUFACTURER/ MODEL | ELECTRICAL RATING | BLOWER | CAPACITY AT 80F 60WRH (PINTS/DAY) | FILTER | DRAIN CONNECTION | WEIGHT (LBS) | REMARKS |
|------|--------------------|---------------------|-----------------------|-----------------------|-----------------------------------|----------------|------------------|--------------|---------|
| DH-1 | BAY#1 STORAGE ROOM | HONEYWELL TRUEDRY90 | 120V/60HZ/1PH 6.3 AMP | 230 CFM AT 0.2 W5 ESP | 90 | MERV 8 MINIMUM | 3/4 | 100 | 1 TO 5 |

REMARKS:
 1. 115VAC GFI OUTLET BY DIVISION 26
 2. PROVIDE WITH HUMIDISTAT
 3. PROVIDE WITH POWER CORD, PLUG TYPE
 4. INLET AIR OPERATING CONDITION: 50 F-104F, 40F DEW POINT MINIMUM
 5. CONDENSATE DRAIN SHALL BE BY DIVISION 22. COORDINATE REQUIREMENTS

| TAG | LOCATION | FREE AIR DELIVERY (CFM) | INPUT CAPACITY (BTUH) | OUTPUT CAPACITY (BTUH) | TEMP RISE (F) | PRESSURE IN WC | ELECTRICAL CONTROL VOLTAGE | MOTOR HP | MODEL | DIMENSION (INCHES) OVERALL HEIGHT OVERALL WIDTH OVERALL DEPTH | WEIGHT (LBS) | NOTES | |
|-------|--------------------|-------------------------|-----------------------|------------------------|---------------|----------------|----------------------------|----------|-------|---|----------------------|-------|---------------|
| GRU-1 | BAY 1 STORAGE ROOM | 1600 | 100,000 | 83,000 | 47 | 6-7 | 115V/60/1 | 24V | 1/10 | SP100 | 33-3/4 25-1/4 43-1/2 | 135 | 1 TO 5 |
| GRU-2 | BAY #3 | 920 | 90,000 | 73,800 | 60 | 6-7 | 115V/60/1 | 24V | 1/12 | GG75 | 16-13/16 30 26-3/16 | 85 | 1, 2, 4, 6, 7 |

REMARKS:
 1. SEISMICALLY SUPPORT
 2. SEPARATED COMBUSTION. TUBULAR PROPELLER
 3. PROVIDE WITH 2-STAGE GAS CONTROLS WITH A 2-STAGE COMBINATION GAS CONTROL AND A 2-STAGE LOW VOLTAGE THERMOSTAT
 4. DISCONNECT SWITCH SHALL BE PROVIDED BY DIVISION 26
 5. 8" DIAMETER COMBUSTION AIR INLET, 8" FULLE SIZE DIAMETER
 6. CATEGORY II VENTING
 7. LOW PROFILE. SEPARATED COMBUSTION. PROVIDE WITH SINGLE STAGE GAS CONTROLS WITH A SINGLE STAGE COMBINATION GAS CONTROL AND A SINGLE STAGE LOW VOLTAGE THERMOSTAT. CONCENTRIC VENT KIT

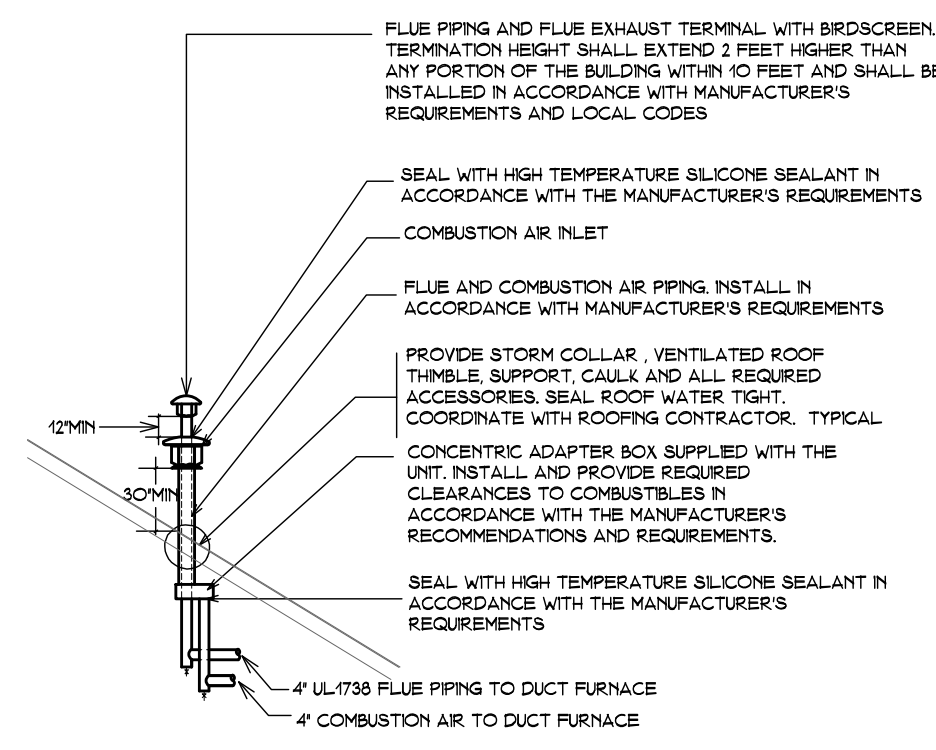
| TAG | MODULE SIZE | SIZE | NECK SIZE | TYPE | CFM | MAX TOTAL PRESSURE (IN WG) | MAX NC | MAX NECK VEL (FPM) | MANUFACTURER # MODEL NO | REMARKS |
|-----|-------------|---------|-----------|-------------------------------------|--------------|----------------------------|--------|--------------------|-------------------------|-----------|
| A | - | 18 X 6 | 18 X 6 | SPRAL DUCT MOUNTED REGISTER | UP TO 300 | 0.177 | 15 | 400 | TITUS MODEL S3COFS | 1.2 |
| B | - | 30 X 12 | 30 X 12 | SURFACE MOUNT SUPPLY GRILLE | 900-1100 | 0.033 | 20 | 400 | TITUS MODEL 30OFL | 1.3 |
| C | - | 10 | 10 | ROUND DUCT MOUNTED | UP TO 300 | 0.096 | 15 | 400 | SEHO MODEL RHV | 1.4 |
| D | - | 18 X 10 | 18 X 10 | CEILING GRILLE- SURFACE MOUNTED | 200-250 | 0.018 | 12 | 300 | TITUS MODEL 30FLL | 1.5 |
| E | 24 X 8 | 22 X 6 | 22 X 6 | CEILING GRILLE- LAY IN | 200-250 | 0.018 | 12 | 300 | TITUS MODEL 30FLL | 1.6 |
| F | - | 12 X 10 | 12 X 10 | SURFACE MOUNT SIDEWALL GRILLE | UP TO 200 | 0.018 | 12 | 300 | TITUS MODEL 30FLL | 1.5 |
| G | 24 X 24 | 12 X 12 | 12 X 12 | LAY-IN CEILING GRILLE | UP TO 250 | 0.018 | 12 | 300 | TITUS MODEL 30FLL | 1.9 |
| H | - | 22 X 8 | 22 X 8 | REVERSIBLE CORE NARROW BLADE GRILLE | UP TO 400 | 0.018 | 12 | 500 | TITUS MODEL 1700L | 1.0 |
| J | 6 X 6 | 6 X 6 | 6" | SURFACE MOUNT CEILING DIFFUSER | UP TO 100 | 0.018 | 16 | 400 | TITUS MODEL TDC-AA | 1.11, 1.2 |
| K | 12 X 12 | 12 X 12 | 8" | SQUARE CEILING DIFFUSER | 99-200 | 0.030 | 15 | 450 | TITUS MODEL TMS-AA | 1.13 |
| L | 20 X 20 | 20 X 20 | 10" | SQUARE CEILING DIFFUSER | 220-327 | 0.045 | 17 | 600 | TITUS MODEL TMS-AA | 1.13 |
| M | 9 X 9 | 9 X 9 | 8" | SURFACE MOUNT CEILING DIFFUSER | 101 TO 175 | 0.104 | 16 | 400 | TITUS MODEL TDC-AA | 1.11, 1.2 |
| AA | - | 12 X 12 | 12 X 12 | SURFACE MOUNTED GRILLE | 150- 250 | 0.019 | 15 | 300 | TITUS MODEL 35OFL | 1.7 |
| BB | - | 12 X 10 | 12 X 10 | SURFACE MOUNTED GRILLE | UP TO 200 | 0.018 | 12 | 300 | TITUS MODEL 35OFL | 1.7 |
| CC | - | 30 X 16 | 30 X 16 | SURFACE MOUNTED GRILLE | 1000 - 1300 | 0.071 | 15 | 400 | TITUS MODEL 35OZFL | 1.8 |
| DD | - | 36 X 16 | 36 X 16 | SURFACE MOUNTED GRILLE | 1501 - 3000 | 0.071 | 15 | 450 | TITUS MODEL 35OZFL | 1.8 |
| EE | - | 22 X 24 | 22 X 24 | SURFACE MOUNTED GRILLE | 1000 TO 1200 | 0.045 | 15 | 400 | TITUS MODEL 35OFS | 1.7 |
| FF | - | 8 X 8 | 8 X 8 | CEILING GRILLE | 150- 200 | 0.019 | 15 | 300 | TITUS MODEL 35OFL | 1.7 |
| GG | - | 12 X 6 | 12 X 6 | SURFACE MOUNTED GRILLE | - | - | - | - | TITUS MODEL 35OFL | 1.7 |
| HH | - | 36X12 | 36X12 | SURFACE MOUNTED GRILLE | 800 TO 1200 | 0.045 | 15 | 400 | TITUS MODEL 35OFS | 1.7 |

REMARKS:
 1. ALUMINUM CONSTRUCTION
 2. 22.5 DEGREE DOUBLE DEFLECTION ADJUSTABLE BLADES WITH FRONT BLADES PARALLEL TO THE SHORT DIMENSION OF THE REGISTER. RADIUS END CAPS. TO BE USED FOR DOUBLE WALL SPIRAL DUCTWORK WITH 1-INCH THICK INSULATION. PROVIDE WITH AIR SCOOP DAMPER/EXTRACTOR.
 3. 22.5 DEGREE DEFLECTION. PROVIDE WITH OPPOSED BLADE DAMPER. PROVIDE SHORT TAKEOFF FOR DUCT MOUNTED REGISTER
 4. DUCT MOUNTED DOUBLE DEFLECTION
 5. SINGLE DEFLECTION. SURFACE MOUNTED. MECHANICAL CONTRACTOR ADJUST BLADES TO BLOW TOWARDS CORRIDOR
 6. SINGLE DEFLECTION. LAY-IN.
 7. 35 DEGREE FIXED DEFLECTION. SURFACE MOUNT
 8. ZERO DEGREE FIXED DEFLECTION. DUCT MOUNTED
 9. LAY-IN
 10. SURFACE MOUNT, ZERO DEGREE DEFLECTION
 11. BEVEL DROP FACE. PROVIDE BORDER FOR SURFACE MOUNT. COORDINATE LOCATION WITH ARCHITECTURAL PLAN
 12. DIFFUSER AIR PATTERN AS INDICATED ON DRAWING
 13. PROVIDE BORDER FOR SURFACE MOUNT. PROVIDE WITH INSULATED BACK PANEL. COORDINATE LOCATION WITH ARCHITECTURAL PLAN

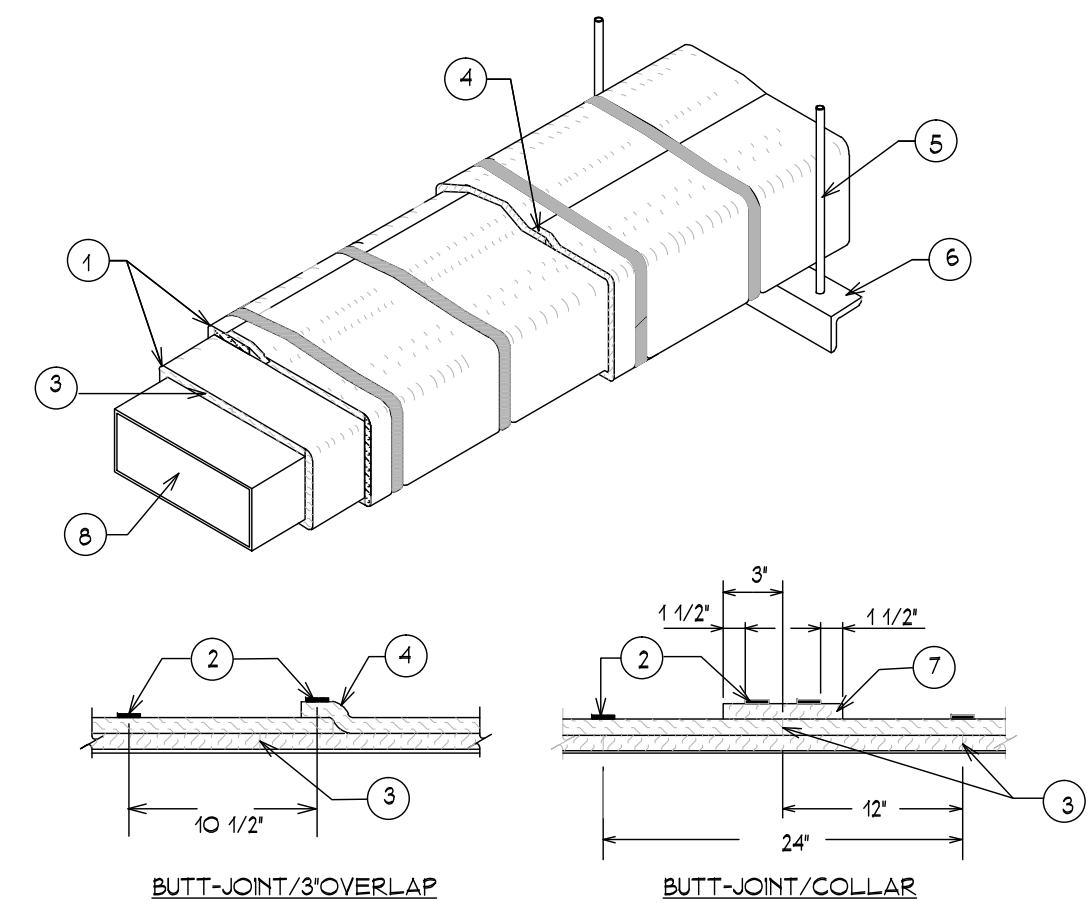
LEGEND: SUPPLY TAG — [X] — PATTERN:
 1-WAY
 2-WAY
 3-WAY
 4-WAY
 C-CORNER
 RETURN TAG — X — CFM

| TAG | AREA SERVED | TYPE | CFM | STATIC PRESS (IN WG) | FAN RPM | ELECTRICAL VOLTS/ HP | POWER | MOTOR RPM | MODEL | SONES INLET/OUTLET | NOTES | |
|-------|---------------------|-----------------|------|----------------------|---------|----------------------|-------|-----------|----------------------|--------------------|-----------|---------|
| EF-1 | WOMEN'S TOILET 110 | CEILING | 225 | 0.375 | 1331 | 115/1 | 77.6W | - | GC-422 | 3.0 | 1.2 | |
| EF-2 | MENS TOILET 109 | CEILING | 150 | 0.375 | 874 | 115/1 | 69W | - | GC-186 | 3.0 | 1.2 | |
| EF-3 | ELECTRICAL CLOSET | IN-LINE | 200 | 0.375 | 1254 | 115/1 | 1/6 | 83W | 1050 | 90SQIN/2D | 3.9/4.8 | 1.3 |
| EF-4 | MECHANICAL CLOSET | IN-LINE | 200 | 0.375 | 1254 | 115/1 | 1/6 | 83W | 1050 | 90SQIN/2D | 3.9/4.8 | 1.3 |
| EF-5 | BAY 101 | IN-LINE | 2200 | 0.50 | 1717 | 208/1 | 3/4 | 581W | 1725 | 185SQIN/7DEC | 15.6/16.2 | 1.4 |
| EF-6 | ELEVATOR CLOSET 104 | IN-LINE | 200 | 0.375 | 900 | 115/1 | 1/6 | 83W | 1050 | 90SQIN/2D | 3.9/4.8 | 1.5 |
| EF-7 | JAN CLOSET | CEILING | 75 | 0.375 | 1404 | 115/1 | 33.1W | - | GC-146 | 1.5 | 1.9 | |
| EF-8 | TOILET ROOM 201 | CEILING | 75 | 0.375 | 1404 | 115/1 | 33.1W | - | GC-146 | 1.5 | 1.10 | |
| EF-9 | DRYER BOOSTER | IN-LINE | 150 | 0.20 | 1201 | 83 W | - | - | FANTECH DBF-HALT-705 | - | 1.11 | |
| EF-10 | MECH ROOM 204 | CEILING | 150 | 0.375 | 874 | 115/1 | 69W | - | GC-186 | 3.0 | 1.17 | |
| EF-11 | ATTIC | IN-LINE | 950 | 0.375 | 1222 | 208/1 | 0.5 | - | 1725 | 120SQIN/7DEC | 7.7/7.7 | 1.5/1.6 |
| EF-12 | BAY 101 | IN-LINE | 2100 | 0.50 | 1659 | 208/1 | 3/4 | 527W | 1725 | 185SQIN/7DEC | 14.7/15 | 16.7 |
| EF-13 | DATA CLOSET 108 | CABINET IN-LINE | 250 | 0.25 | 1359 | 115/1 | 86.6W | - | GN-422 | 3.5 | 1.8 | |
| EF-14 | DATA CLOSET | CABINET IN-LINE | 200 | 0.25 | 1030 | 115/1 | 76.1W | - | GC-186 | 4.5 | 1.8 | |
| EF-15 | AHU-1 | IN-LINE | 1100 | 0.50 | 1413 | 208/1 | 1/2 | 198W | 1725 | 120SQIN/7DEC | 8.4/9.2 | 1.13 |

REMARKS:
 1. SUPPORT FROM STRUCTURE
 2. PROVIDE CEILING FANS WITH DISCONNECT SWITCH. WHITE ALUMINUM INTAKE GRILLE. VIBRATION ISOLATION BACKDRAFT DAMPER. SOLID STATE SPEED CONTROLLER. INTERLOCK WIRING OF EXHAUST FAN WITH OCCUPANCY SENSOR BY DIVISION 26. OCCUPANCY SENSOR TO BE PROVIDED BY DIVISION 26
 3. EXHAUST AIR DIRECT DRIVE IN-LINE FAN. PROVIDE WITH DISCONNECT SWITCH. FAN HOUSING WITH 0.5-INCH THICK INSULATION. SOLID STATE FAN SPEED CONTROLLER. DUCT MOUNTED GRAVITY BACKDRAFT DAMPER. INTERLOCK WITH REVERSE ACTING LINE VOLTAGE THERMOSTAT AND 2-POSITION LINE VOLTAGE OUTSIDE AIR MOTORIZED DAMPER ACTUATOR WITH END SWITCH. ALL LINE VOLTAGE WIRING INTERLOCK SHALL BE BY DIVISION 26
 4. EXHAUST AIR DIRECT DRIVE IN-LINE FAN. PROVIDE WITH DISCONNECT SWITCH. FAN HOUSING WITH 0.5-INCH THICK INSULATION. ELECTRONIC COMMUTATION DRIVE MOTOR WITH 0-10V WIRE INPUT WITH FACTORY MOUNTED CONTROL. TRANSFORMER. DUCT MOUNTED MOTORIZED DAMPER. ACTUATOR VOLTAGE SHALL BE THE SAME AS THE FAN VOLTAGE. FAN MANUFACTURER PROVIDED TEMPERATURE CONTROLLER. INTERLOCK WITH SUPPLY FAN. SP-1 ALL LINE VOLTAGE WIRING SHALL BE BY DIVISION 26. LOW VOLTAGE WIRING FROM TRANSFORMERS AND RELAYS SHALL BE BY DIVISION 23
 5. EXHAUST AIR DIRECT DRIVE IN-LINE FAN. PROVIDE WITH DISCONNECT SWITCH. FAN HOUSING WITH 0.5-INCH THICK INSULATION. SOLID STATE F

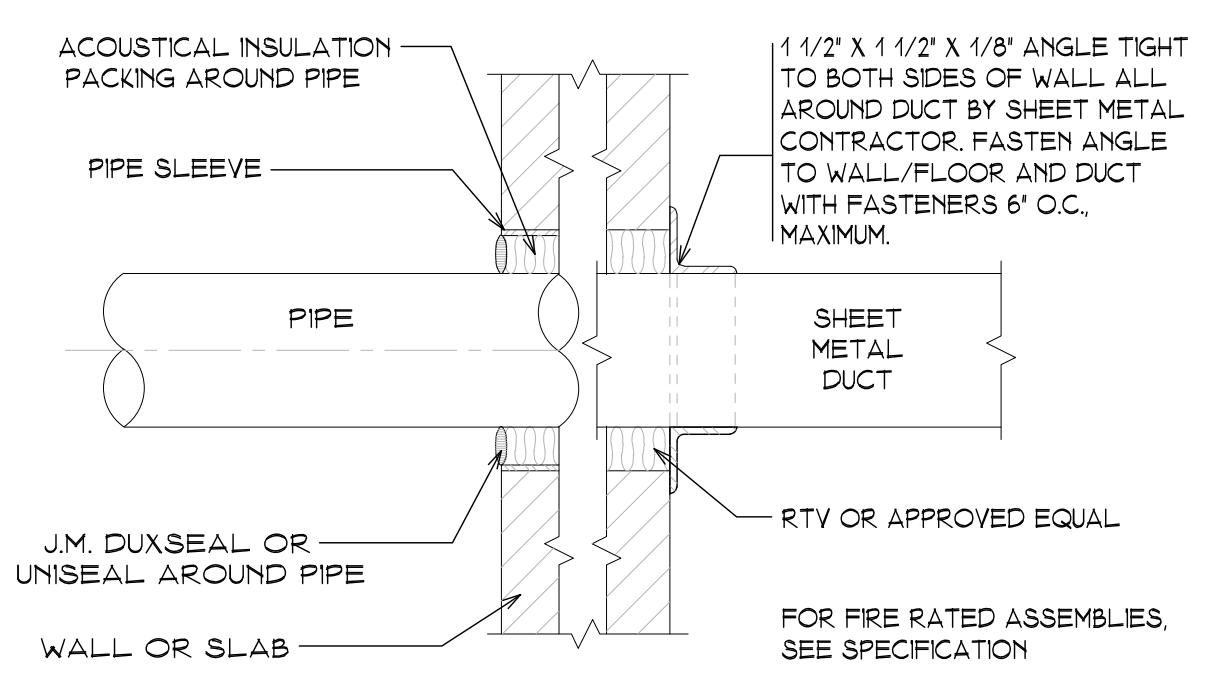


9 CONCENTRIC VENT PIPE TERMINATION
M6 NOT TO SCALE

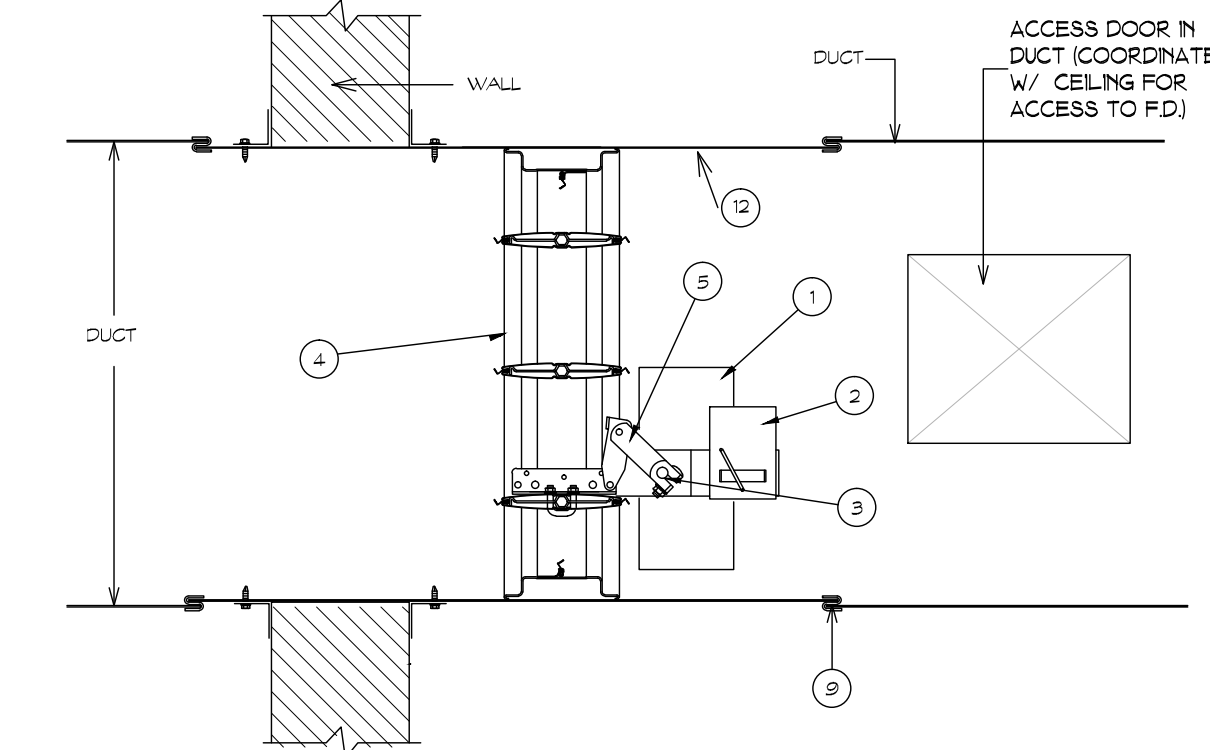


| LEGEND | |
|--------|--|
| 1 | TWO LAYERS OF FREMASTER FASTWRAP XL BLANKET FOR GREASE DUCT ENCLOSURES |
| 2 | STEEL BANDING MINIMUM 1/2\"/> |

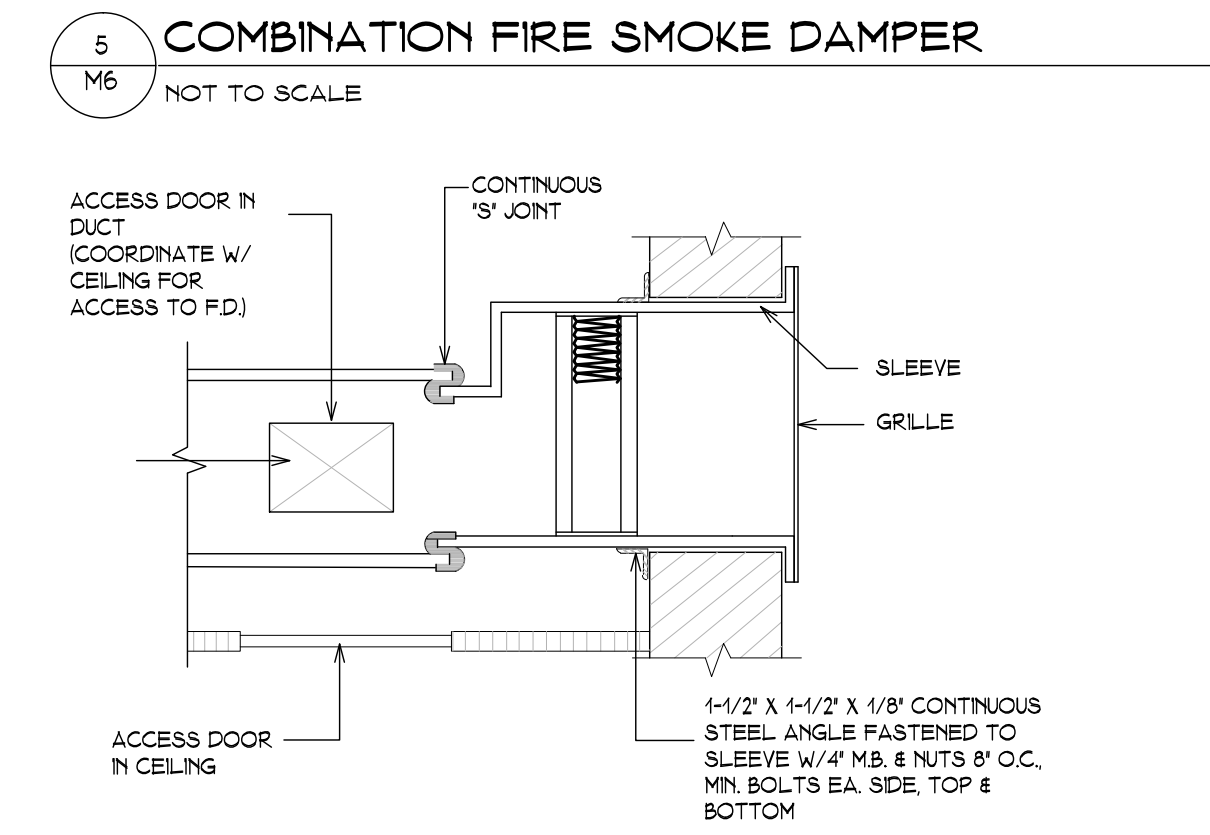
10 GREASE DUCT ENCLOSURE SYSTEM
M6 NOT TO SCALE



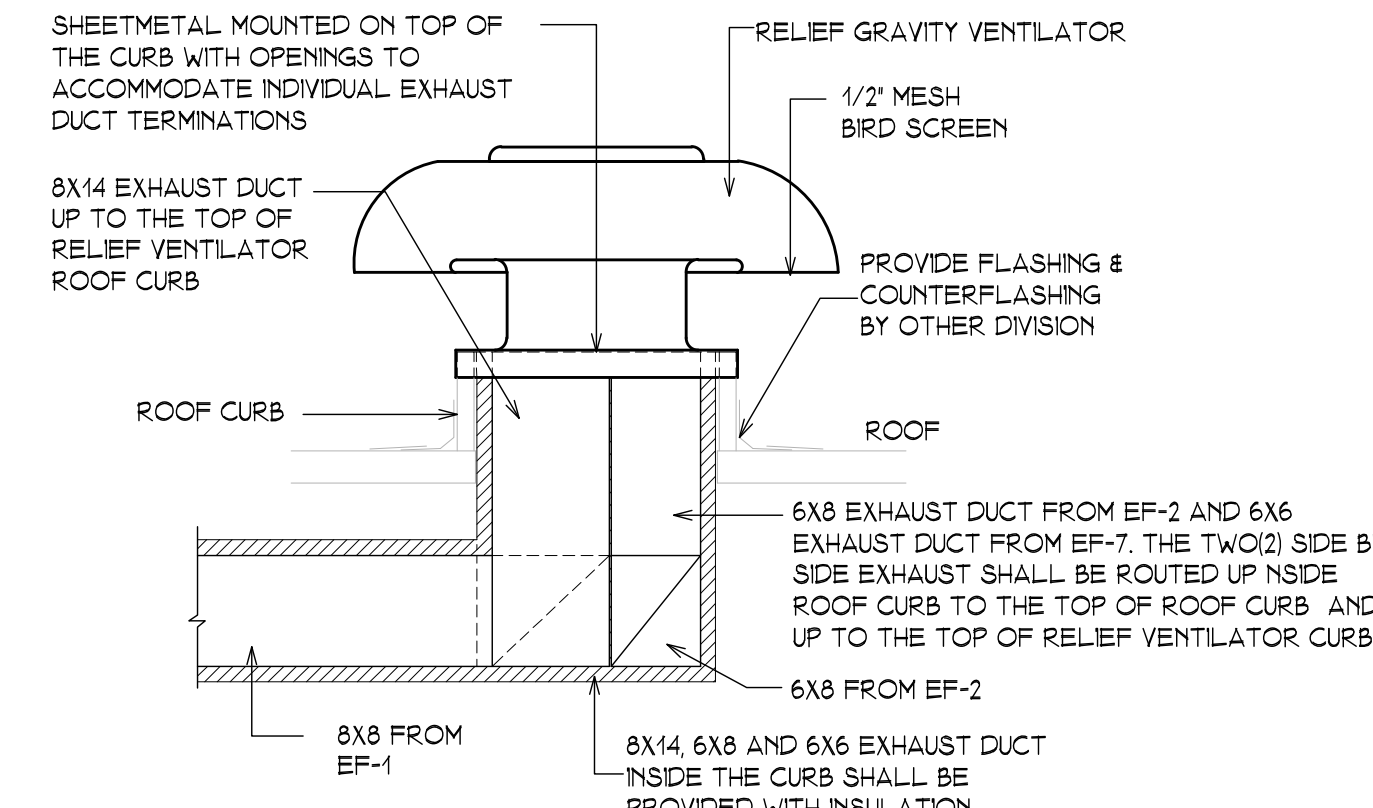
11 WALL AND FLOOR PENETRATIONS
M6 NOT TO SCALE



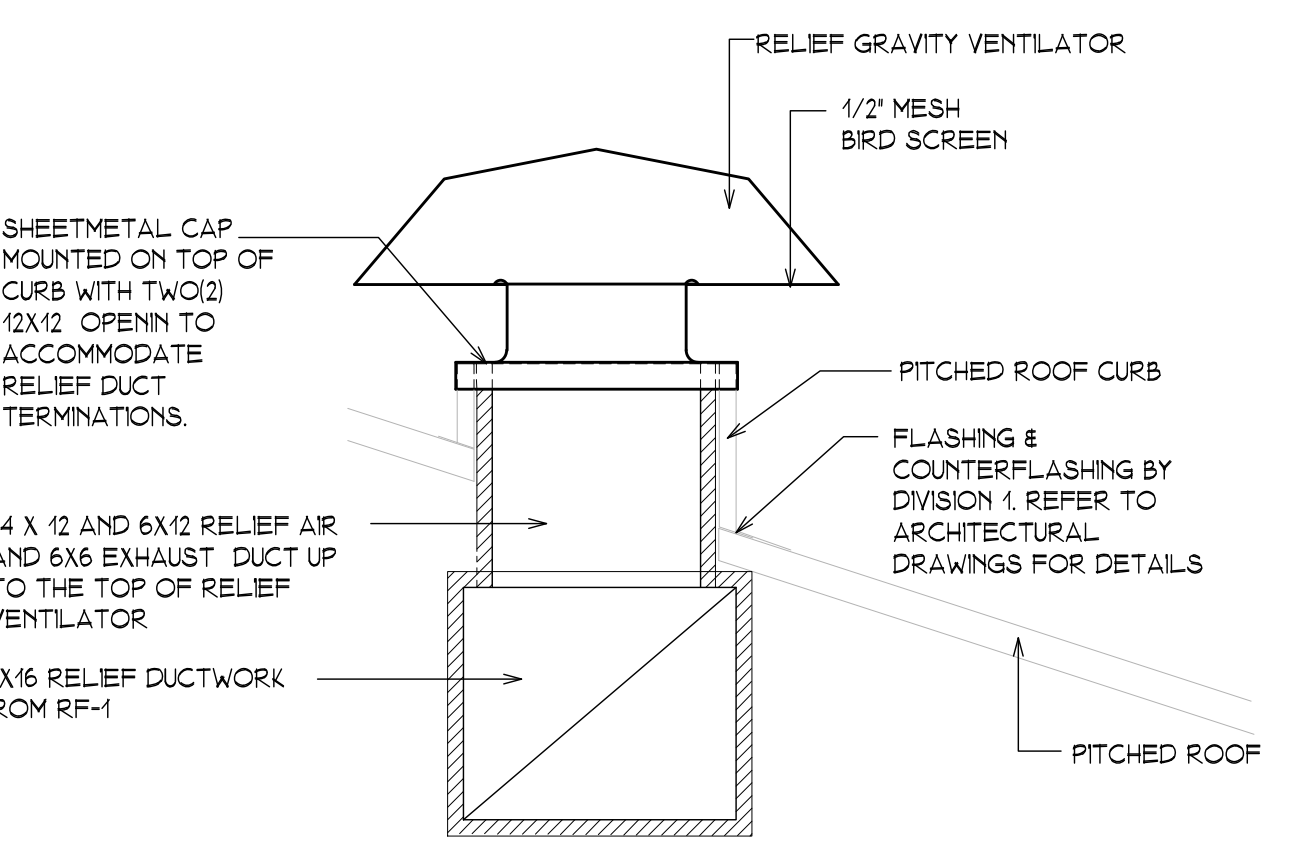
5 COMBINATION FIRE SMOKE DAMPER
M6 NOT TO SCALE



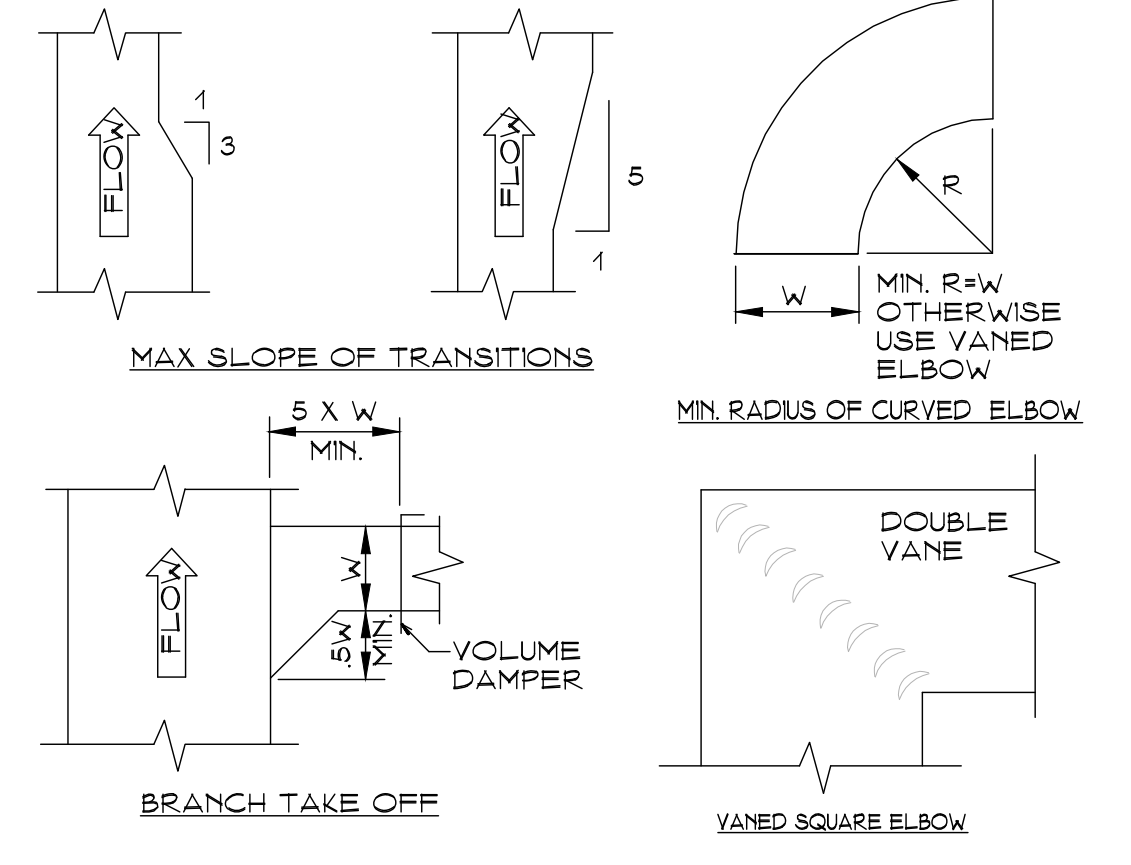
6 OUT OF THE WALL FIRE DAMPER DETAIL
M6 NOT TO SCALE



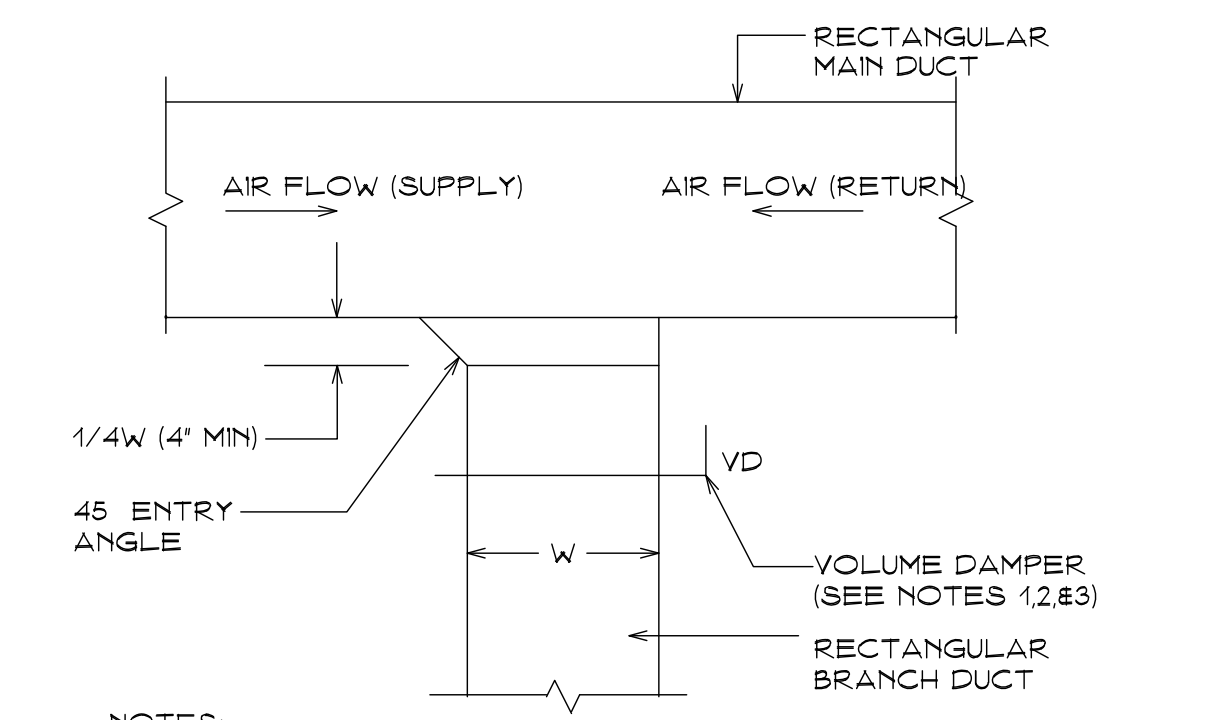
7 RELIEF GRAVITY VENTILATOR DETAIL
M6 NOT TO SCALE



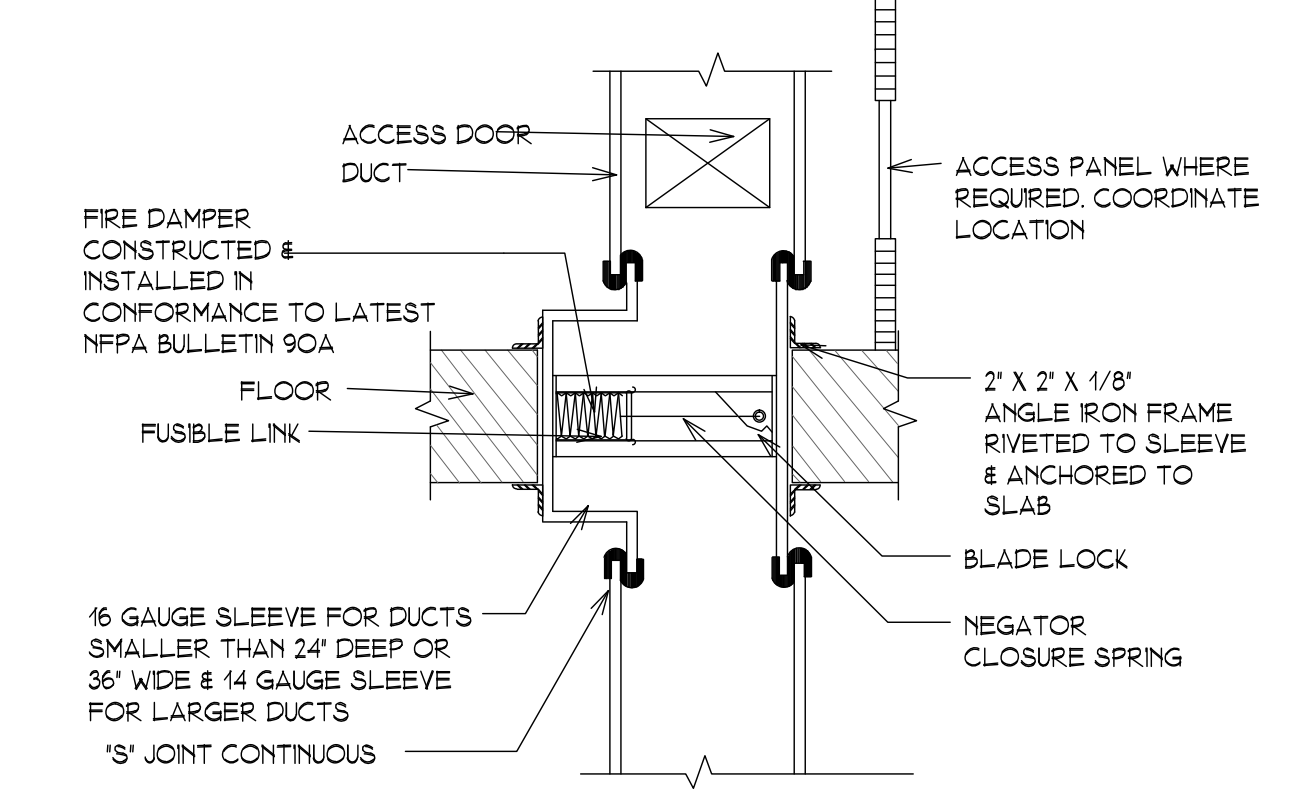
8 RELIEF GRAVITY VENTILATOR DETAIL
M6 NOT TO SCALE



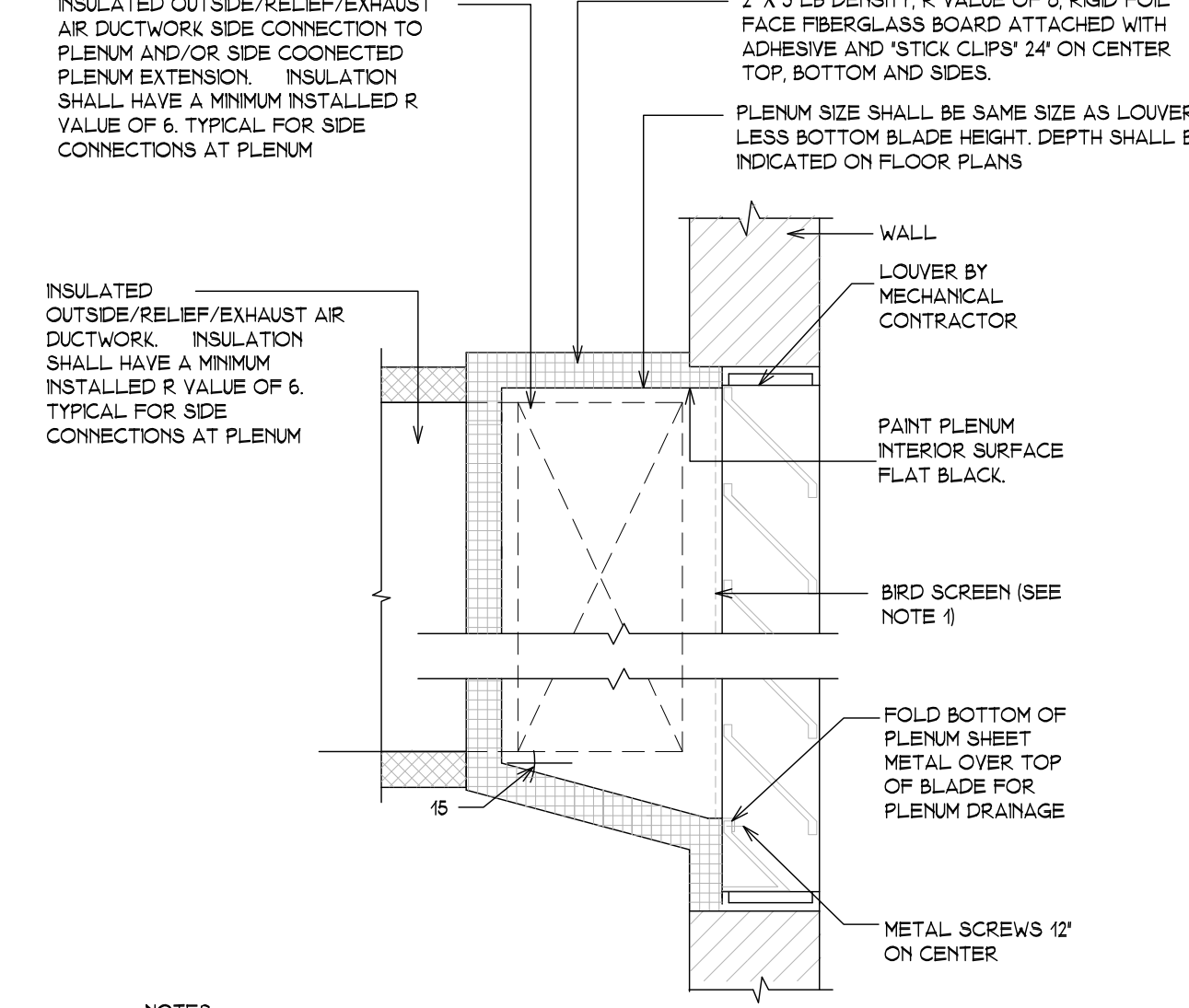
1 DUCT CONSTRUCTION DETAIL
M6 NOT TO SCALE



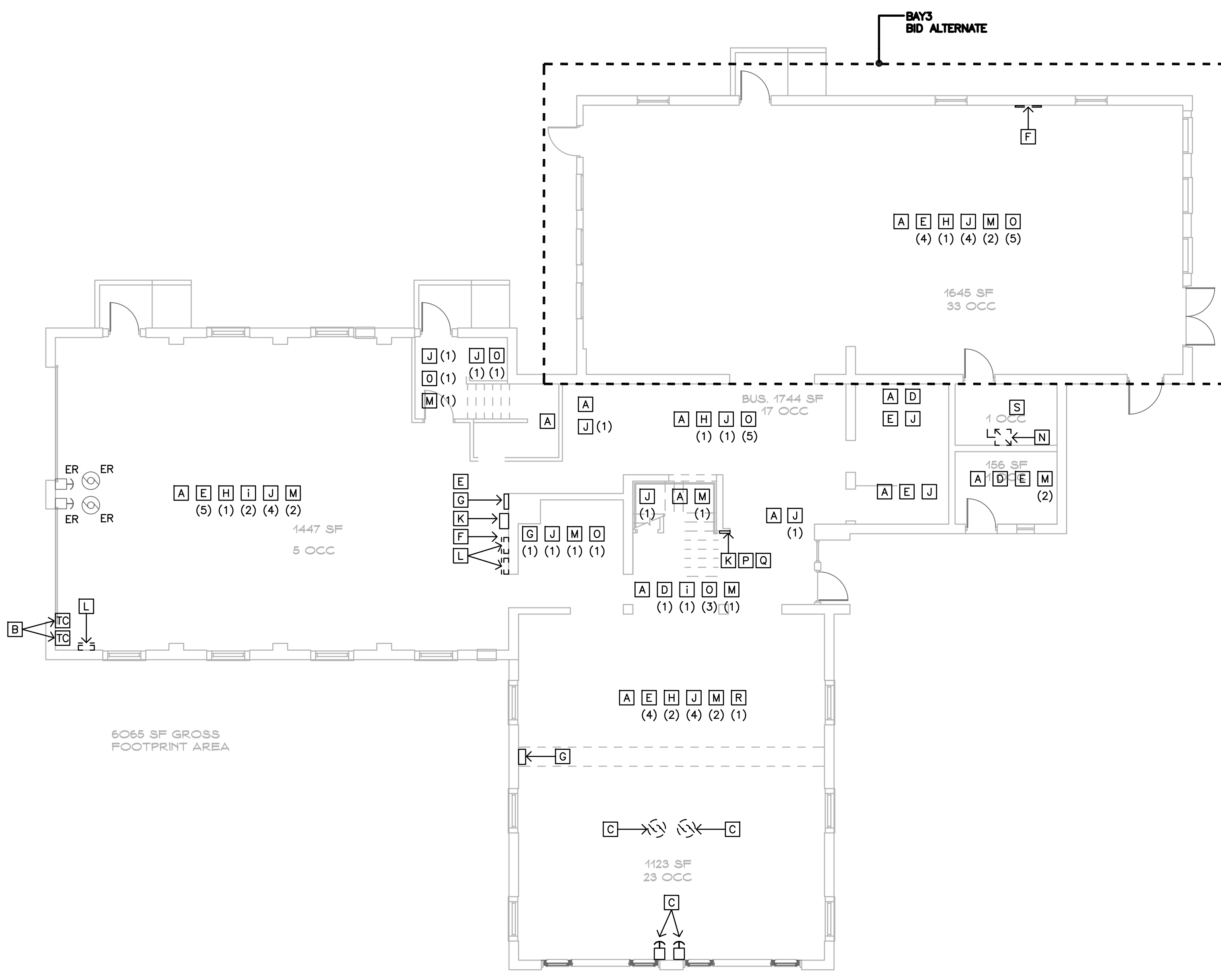
2 TYPICAL RECTANGULAR SUPPLY/RETURN DUCT TAKEOFF
M6 NOT TO SCALE



3 HORIZONTAL FIRE DAMPER DETAIL
M6 NOT TO SCALE

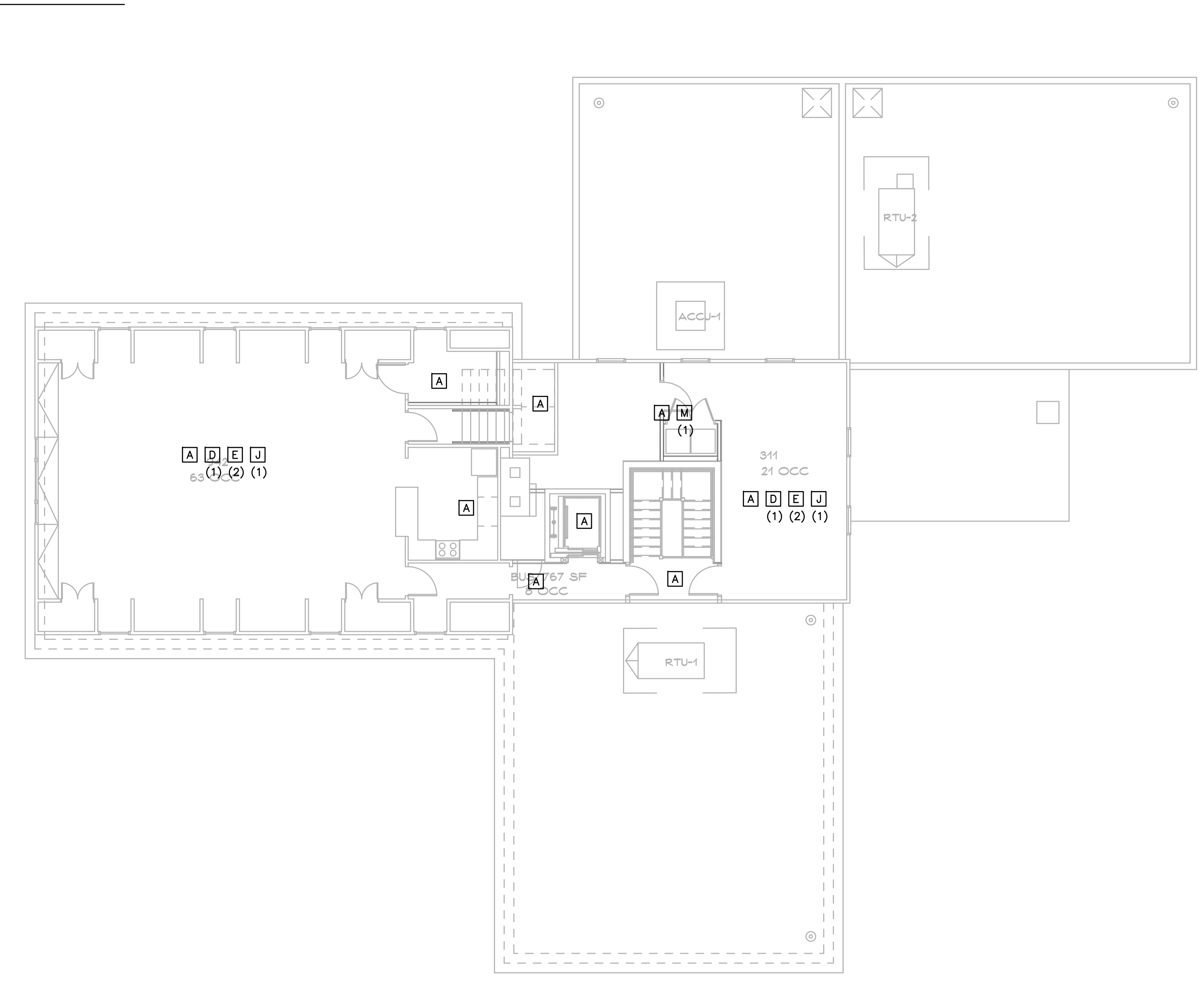


4 INTAKE AND EXHAUST/RELIEF LOUVER INSTALLATION DETAIL
M6 NOT TO SCALE



(#) = QUANTITY OF ELECTRICAL ITEMS TO BE REMOVED.

ELECTRICAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH



(#) = QUANTITY OF ELECTRICAL ITEMS TO BE REMOVED.

ELECTRICAL SECOND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

- DEMOLITION KEY NOTES**
- DISCONNECT & REMOVE (UNLESS OTHERWISE INDICATED) THE FOLLOWING:
- A TEMPORARY LIGHTING ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
 - B LIGHTING TIME CLOCK ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
 - C OVERHEAD DOOR ASSOCIATED CONTROL, WIRING AND CONDUIT BACK TO SOURCE.
 - D TOGGLE SWITCH ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
 - E RECEPTACLES ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
 - F TELEPHONE TERMINATION SYSTEM AND ASSOCIATED WIRING.
 - G CONTROLLERS ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
 - H FIRE ALARM HORN/STROBE DEVICES ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
 - I FIRE ALARM PULL STATION ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
 - J HEAT DETECTOR ASSOCIATED WIRING BACK TO SOURCE.
 - K FIRE ALARM CONTROL PANEL, REMOTE ANNUNCIATOR ASSOCIATED WIRING AND CONDUIT BACK TO SOURCE.
 - L ELECTRICAL PANELBOARD ASSOCIATED FEEDER AND CONDUIT BACK TO SOURCE.
 - M ALL HVAC/PLUMBING ELECTRICAL CONNECTION INCLUDED BUT NOT LIMITED TO SAFETY DISCONNECT SWITCH, WIRING, AND CONDUIT OF MECHANICAL AND PLUMBING EQUIPMENT WITHIN ROOM. REFER TO MECHANICAL DRAWINGS FOR EXISTING LOCATION OF EQUIPMENT TO BE REMOVED.
 - N ENCLOSURE CIRCUIT BREAKER ASSOCIATED FEEDER AND CONDUIT BACK TO SOURCE.
 - O WALL RECESSED BACK BOX AND ASSOCIATED CONDUIT.
 - P EXISTING GENERATOR REMOTE ANNUNCIATOR TO BE REMOVED AND RELOCATED. REFER TO NEW WORK FOR NEW LOCATION. CONTRACTOR TO EXTEND WIRING AND CONDUIT AS REQUIRED.
 - Q SECURITY KEYPAD ASSOCIATED WIRING BACK TO SOURCE.
 - R CLOCK ASSOCIATED WIRING BACK TO SOURCE.
 - S REFER TO ONE LINE RISER DIAGRAM - DEMOLITION ON SHEET E-4 FOR ADDITIONAL INFORMATION.

- DEMOLITION GENERAL NOTES**
1. ELECTRICAL DEMOLITION TO BE SUPERVISED BY LICENSED ELECTRICAL CONTRACTOR. EACH CIRCUIT SHALL BE VERIFIED "COLD" & DISCONNECTED FROM ELECTRICAL SERVICE PRIOR TO COMMENCING REMOVAL.
 2. REMOVE EXISTING ELECTRICAL EQUIPMENT & MATERIALS AS REQUIRED TO ACCOMMODATE ARCHITECTURAL WORK AND AS SPECIFICALLY NOTED ON THE DEMOLITION DRAWINGS.
 3. ALL MATERIALS BEING REMOVED SHALL BE HANDLED IN A MANNER COMPLYING WITH ALL PERTINENT LAWS, CODES AND ENVIRONMENTAL REGULATIONS.
 4. WHERE ELECTRICAL EQUIPMENT & DEVICES ARE BEING REMOVED, COORDINATE AND FIELD VERIFY IF BRANCH CIRCUIT FEEDS THROUGH TO EQUIPMENT/DEVICES TO REMAIN. BRANCH CIRCUITS SHALL BE SPLICED OR RELOCATED TO MAINTAIN CONTINUATION OF SERVICES.
 5. WHERE EXISTING DEVICES ARE REMOVED & NO NEW DEVICES ARE INSTALLED IN THE SAME LOCATION, REMOVE ALL WIRING FROM BOX & PROVIDE PROPERLY SIZED BLANK COVER PLATE.
 6. CONTRACTOR SHALL REMOVE ALL FLUORESCENT LIGHT FIXTURE BALLASTS & IDENTIFY THOSE CONTAINING PCB'S. THESE SHALL BE TURNED OVER TO THE OWNER FOR DISPOSAL.
 7. ALL REMOVED COMPONENTS SHALL BE LEGALLY DISPOSED OF BY CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
 8. ELECTRICAL COMPONENTS SHOWN ON THE DEMOLITION DRAWINGS, AND THE ASSOCIATED CONDUIT, WIRE & BOXES ARE TO BE REMOVED AND DISPOSED OF UNLESS SPECIFICALLY NOTED OTHERWISE.

Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525

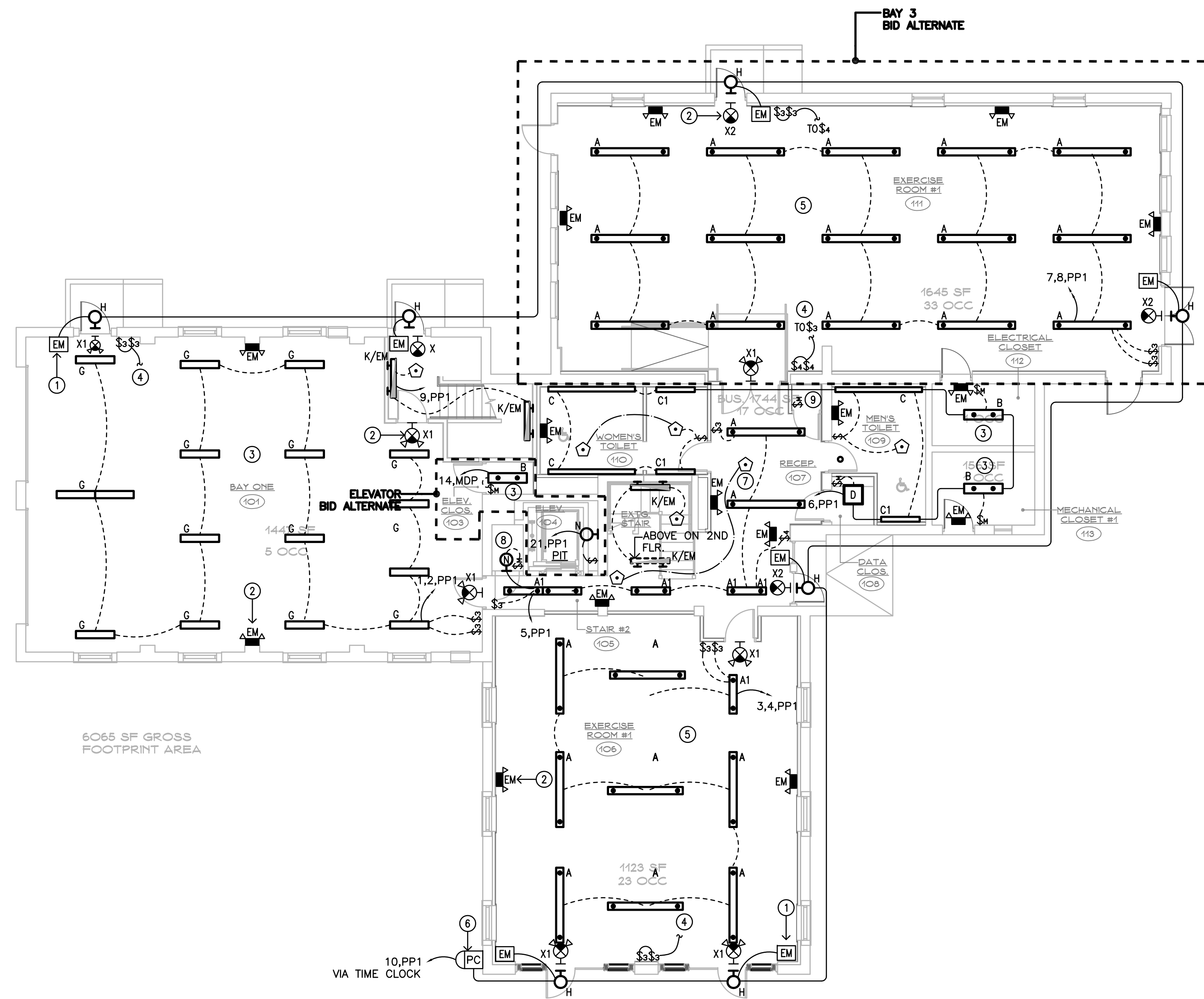
SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucci.com

| Revision | Description | Date | Revised By |
|----------|-------------|------|------------|
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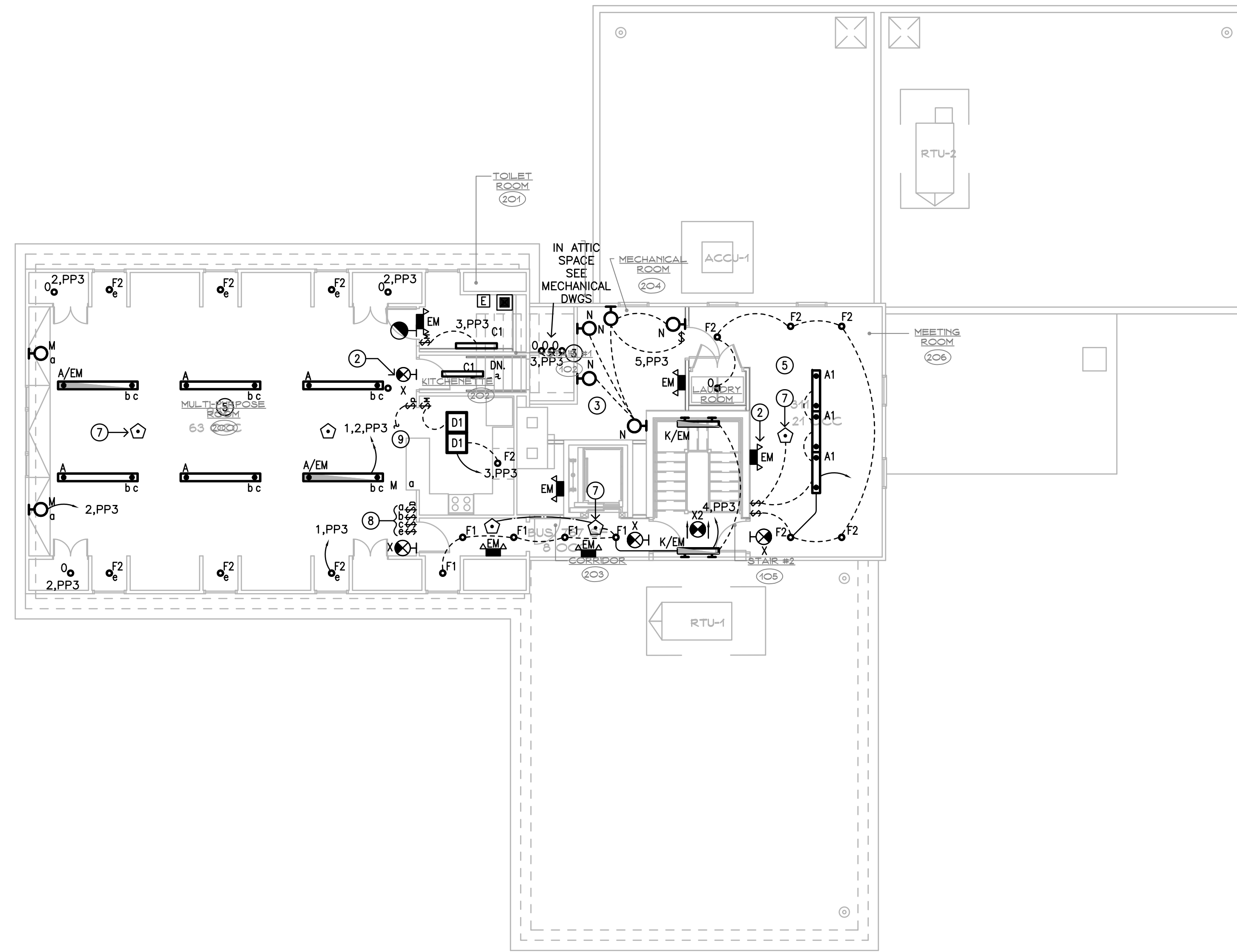
ELECTRICAL DEMOLITION PLAN

Date: 5.18.18
Scale: AS NOTED
Drawn By: JRP/PJE LC
Project Number: 11.147

E-1



ELECTRICAL FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH



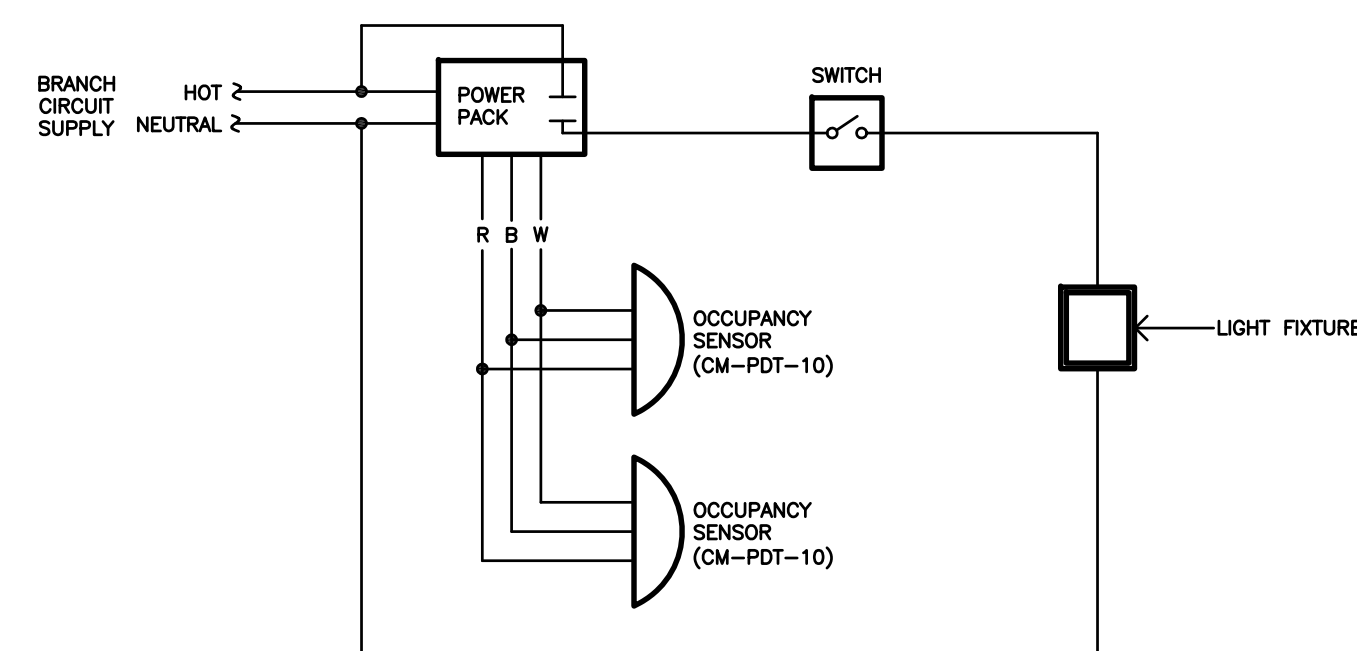
ELECTRICAL SECOND FLOOR LIGHTING PLAN

KEY NOTES

1. REMOTE EMERGENCY BATTERY PACK TO SUIT EXTERIOR EMERGENCY LIGHT. COORDINATE MOUNTING LOCATION IN THE FIELD. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION. REFER TO LIGHTING SCHEDULE TYPE-H FOR UNIT PART NUMBER. TYPICAL.
2. CONTRACTOR SHALL CONNECT EXIT SIGN AND EMERGENCY WALL PACK TO LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF SWITCHING DEVICE. TYPICAL.
3. CONTRACTOR SHALL COORDINATE ALL LUMINAIRE LOCATION WITH ARCHITECTURAL STRUCTURE AND MECHANICAL/PLUMBING SYSTEM IN THE FIELD. VERIFY LUMINAIRE MOUNTING REQUIREMENTS FOR CEILING TYPE AND ORDER APPROPRIATE HARDWARE. REFER TO LIGHTING SCHEDULE FOR ADDITIONAL INFORMATION.
4. 3/4" C, 2#12, 1#12G. FROM EACH THREE WAY SWITCH TO CORRESPONDING THREE WAY SWITCH AT OPPOSITE END OF ROOM.
5. CONTRACTOR SHALL COORDINATE ALL LUMINAIRE LOCATION WITH ARCHITECTURAL/STRUCTURE AND MECHANICAL/PLUMBING SYSTEM IN THE FIELD. LUMINAIRE SHALL BE INSTALL AT 8'-0" FROM FINISH FLOOR TO THE BOTTOM OF LUMINAIRE. VERIFY LUMINAIRE MOUNTING REQUIREMENTS FOR CEILING TYPE AND ORDER APPROPRIATE HARDWARE. REFER TO LIGHTING SCHEDULE FOR ADDITIONAL INFORMATION.
6. PHOTOCELL TO BE LOCATED ON SOUTHERN EXPOSURE. MOUNT ON WALL JUST BELOW ROOF. CONTRACTOR SHALL VERIFY CONSTRUCTION AND EXACT CONDITIONS IN FIELD. REFER TO CONTACT DIAGRAM FOR ADDITIONAL INFORMATION.
7. CEILING MOUNTED OCCUPANCY SENSOR. CONTRACTOR TO COORDINATE LOCATION IN THE FIELD. WIRE AND MOUNT AS PER MANUFACTURER REQUIREMENTS. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION. REFER TO WIRING DIAGRAM DETAIL FOR ADDITIONAL INFORMATION. (TYPICAL).
8. CONTRACTOR TO PROVIDE ADDITIONAL LIGHT FIXTURE "TYPE-N" AND WALL MOTION SENSOR SWITCH IN SECOND FLOOR AT SAME LOCATION. INTERCONNECT WITH SAME LIGHTING BRANCH CIRCUIT.
9. CONTRACTOR TO INTERCONNECT WALL MOTION SENSOR SWITCH WITH EXHAUST FAN EF-7. COORDINATE CONNECTION WITH EQUIPMENT AND PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED/OPERATIONAL INSTALLATION.

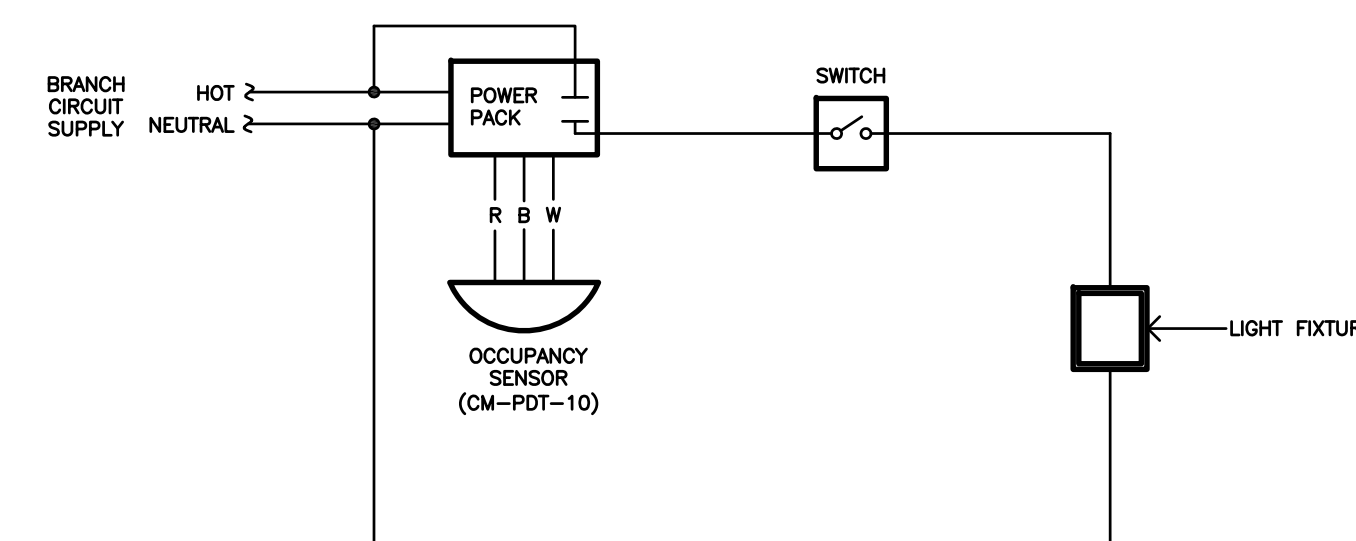
GENERAL NOTES - ELECTRICAL

1. SPECIFICATION SECTIONS, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS AND DRAWINGS ARE INTEGRAL PARTS OF CONTRACT DOCUMENTS.
2. SYSTEM COMPONENTS ARE LOCATED APPROXIMATELY ON DRAWINGS. BASE ACTUAL LOCATIONS ON FIELD VERIFICATION OF EXISTING BUILDING CHARACTERISTICS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL & ARCHITECTURAL COMPONENTS.
3. ALL WORK AND ACTION DEPICTED AND DESCRIBED IN CONTRACT DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
4. REFERENCE TO SPECIFIC SUB-CONTRACTORS SUCH AS "MECHANICAL", "ELECTRICAL", ETC. ARE INTENDED TO SUGGEST POSSIBLE DIVISION OF RESPONSIBILITY. PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND EXECUTION OF ALL WORK.
5. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
6. ALL EQUIPMENT, MATERIALS AND RELATED SYSTEM COMPONENTS SHALL BE NEW UNLESS NOTED OTHERWISE.
7. REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
8. CIRCUITING DEPICTED FOR LIGHTING FIXTURES DEFINES GROUPING OF FIXTURES, DEVICES AND COMPONENTS AND REQUIRED CONDUCTORS. CIRCUITING IS NOT INTENDED TO DEFINE CONDUIT LOCATIONS.
9. STUDY THE PROJECT MANUAL & DRAWINGS OF OTHER DISCIPLINES INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL & MECHANICAL.
10. ELECTRICAL CONDUITS & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE.
11. ALL PENETRATIONS THRU RATED WALLS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR INDICATED RATING.
12. NO PENETRATIONS ARE ALLOWED INTO STAIR ENCLOSURES EXCEPT AS REQUIRED FOR SERVICES UTILIZED IN THE STAIR.
13. ALL INSTALLATIONS ON NEW WALLS SHALL BE FULLY RECESSED. INSTALLATIONS ON EXISTING MASONRY WALLS SHALL BE RUN WITH SURFACE RACEWAY PAINTED TO MATCH WALL FINISH AND SURFACE BOXES. INSTALLATIONS ON EXISTING STUD WALLS SHALL CUT IN OLD-WORK STYLE BOXES AND FISH WIRING IN WALL CAVITY.



CEILING MULTIPLE OCCUPANCY SENSOR DETAIL
SCALE: NONE

NOTE:
EXACT QUANTITY OF DEVICES MAY DIFFER FROM THIS DETAIL CONTRACTOR SHALL PROVIDE ACTUAL QUANTITY REQUIRED. REFER TO LIGHTING FLOOR PLAN.



CEILING OCCUPANCY SENSOR DETAIL
SCALE: NONE

NOTE:
EXACT QUANTITY OF DEVICES MAY DIFFER FROM THIS DETAIL CONTRACTOR SHALL PROVIDE ACTUAL QUANTITY REQUIRED. REFER TO LIGHTING FLOOR PLAN.

Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525



SILVER / PETRUCCELLI + ASSOCIATES
Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucci.com

| Revision | Description | Date | Revised By |
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ELECTRICAL LIGHTING FLOOR PLAN

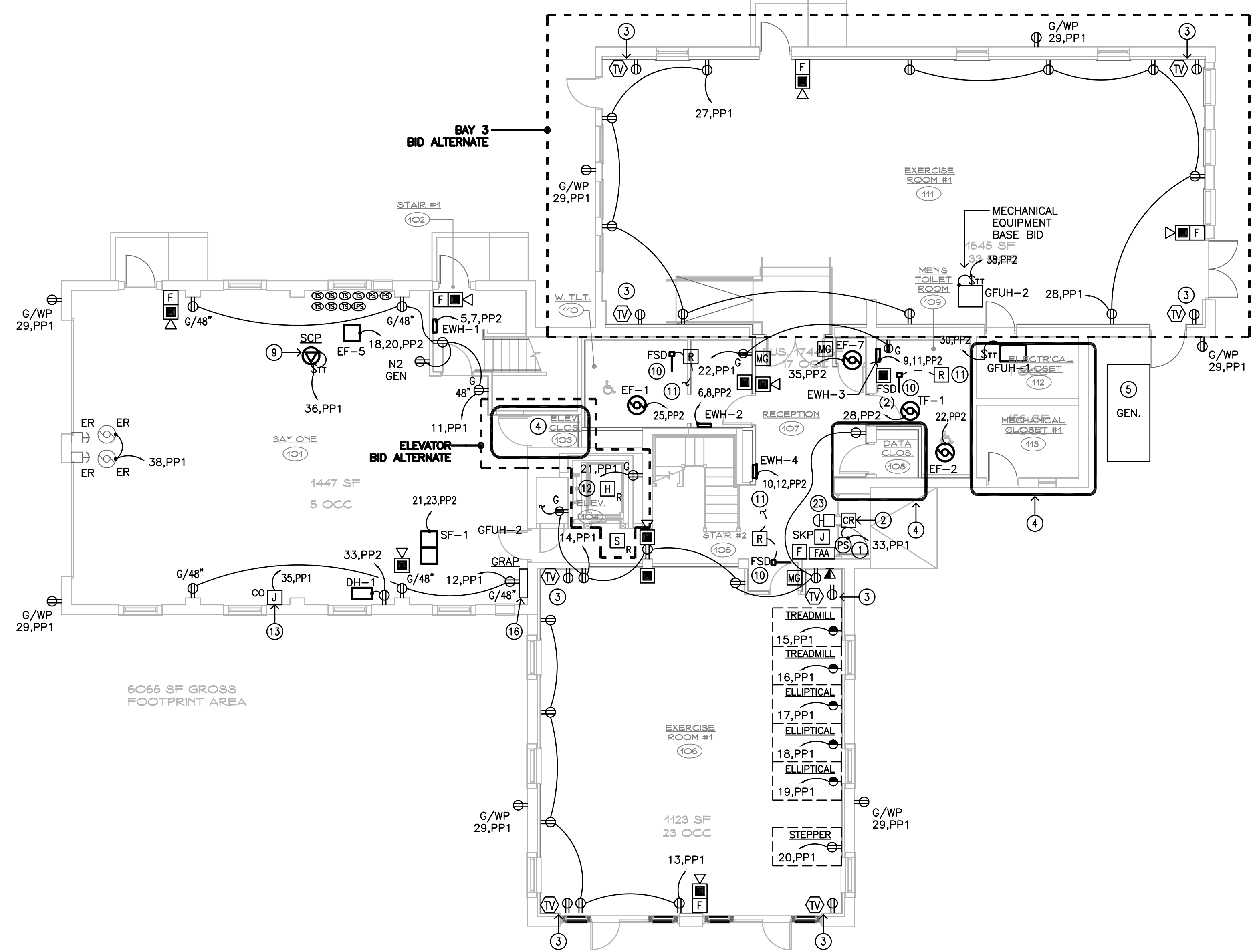
Date: 5.18.16
Scale: AS NOTED
Drawn By: JRP/PJE LC
Project Number: 11.147

DRAWING KEY NOTES

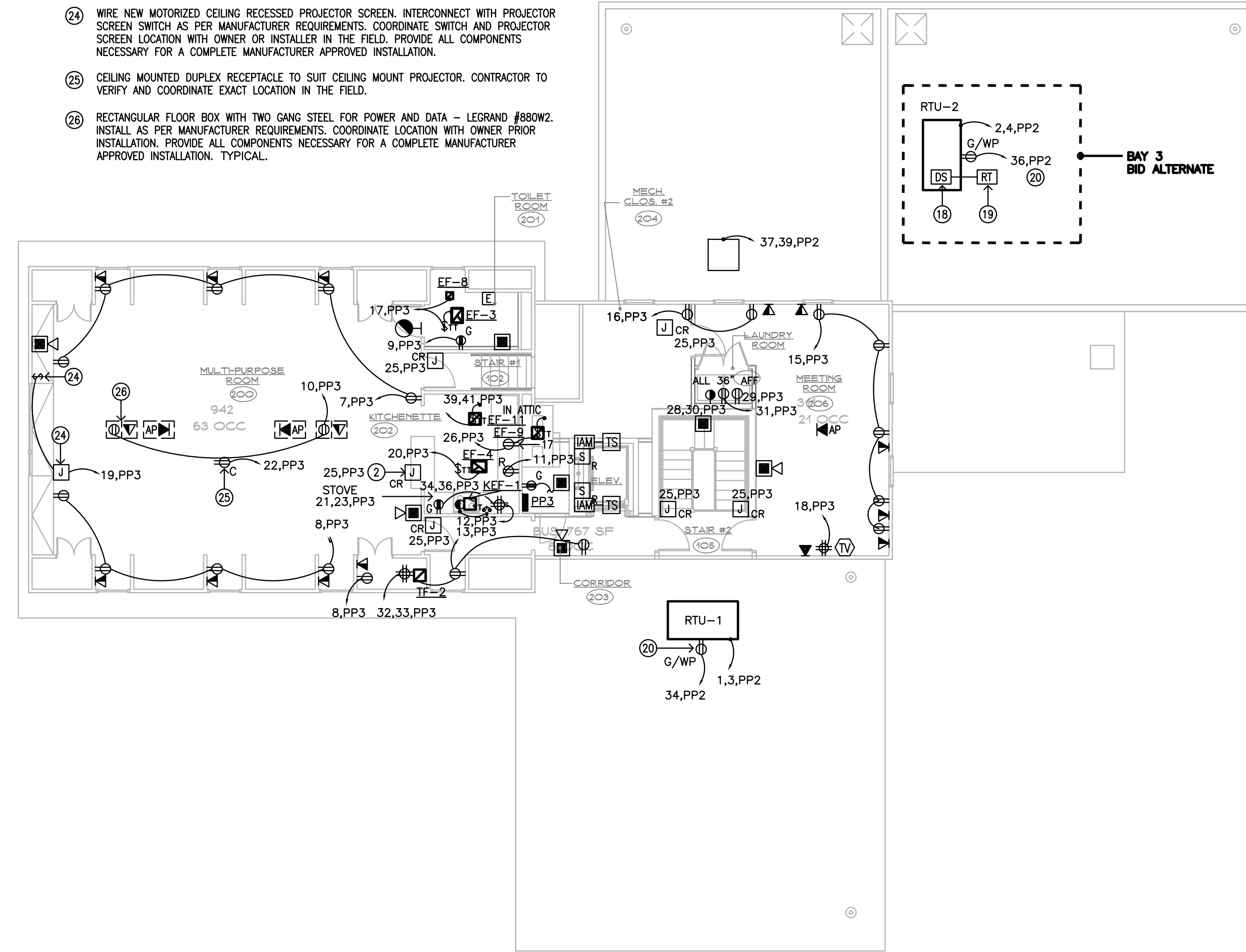
- 1 PROVIDE 120V POWER SUPPLY TO SUIT ELECTRIC STRIKES HARDWARE OR DOOR CONTACTS SPECIFIED WITHIN DOOR HARDWARE. COORDINATE LOCATION IN THE FIELD AND INTERCONNECT AS PER MANUFACTURER REQUIREMENT AND PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE APPROVED INSTALLATION TO BE FULLY OPERATIONAL-TYPICAL.
- 2 PROPOSED LOCATION FOR NEW PROXIMITY CARD READER KANTECH: #P600-IOPROX OR APPROVED EQUAL. PROVIDE SURFACE MOUNT BOX (FOR INSTALLATION ON EXISTING CONCRETE WALL) AND MOUNT 48" MAX. ABOVE FINISHED FLOOR TO TOP UNIT. READER TO BE INTERCONNECTED WITH NEW ACCESS CONTROL CABINET. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION TO BE FULLY OPERATIONAL-TYPICAL.
- 3 DEDICATED TV COAXIAL AND POWER RECEPTACLE OUTLET WITH PULL STRING FOR FUTURE TV LOCATION. COORDINATE MOUNTING HEIGHT WITH OWNER. PROVIDE METALLIC MOUNTING PLATE BRACKET, 3/4" CONDUIT FROM OUTLET LOCATION TO ACCESSIBLE LOCATION ABOVE CEILING CAVITY. TERMINATE BOTH ENDS OF CONDUIT WITH CONNECTOR AND INSULATING BUSHING-TYPICAL.
- 4 REFER TO CORRESPONDING PART PLAN ON THIS DRAWING FOR ANY WORK WITHIN THIS AREA.
- 5 APPROXIMATE LOCATION OF EXISTING 150KW DIESEL GENERATOR (CUMMINS MANUFACTURER) RATED FOR 120/208V, 3Ø, 4 WIRE. EXTEND EXISTING HEATER BLOCK AND BATTERY CHARGER CIRCUITS TO NEW MAIN DISTRIBUTION PANEL "MDP".
- 6 REFER TO ONE LINE POWER RISER DIAGRAM AND PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION ON ALL ELECTRICAL PANELBOARDS.
- 7 3/4" PLYWOOD BACKBOARD SHALL BE FIRE RETARDANT 3/4" TYPE. PAINT ALL SIDE WITH TWO COATS OF FIRE RETARDANT GRAY PAINT-TYPICAL.
- 8 ADDRESSABLE FIRE ALARM CONTROL PANEL. MOUNT AND WIRE EQUIPMENT AS PER MANUFACTURER REQUIREMENTS AND IN ACCORDANCE WITH THE FIRE SAFETY AND NATIONAL ELECTRICAL CODES. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- 9 SPRINKLER DRY SYSTEM COMPRESSOR. COORDINATE LOCATION WITH FIRE PROTECTION DRAWING AND DETAILS.
- 10 PROVIDE AND INSTALL DUCT SMOKE DETECTOR WITHIN FIRE DAMPER. INTERCONNECT UNIT WITH FIRE ALARM PROGRAMMABLE RELAY AS PER MANUFACTURER REQUIREMENTS. COORDINATE EXACT LOCATION WITH HVAC DRAWINGS. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE CODE APPROVED INSTALLATION-TYPICAL.
- 11 PROVIDE FIRE ALARM PROGRAMMABLE RELAY TO BE INTERCONNECTED WITH DUCT SMOKE DAMPER AND FIRE ALARM CONTROL PANEL AS PER MANUFACTURER REQUIREMENTS. PROVIDE 20A-1P, 3/4"C, 2#12, 1#12G FROM PANELBOARD "PP1". COORDINATE MOUNTING AND LOCATION IN THE FIELD-TYPICAL.
- 12 PROVIDE (2) 20A-1P, 3/4"C, 2#12, 1#12G UP TO ELEVATOR SHAFT TO SUIT USP BATTERY AND ELEVATOR CONTROLLER. COORDINATE LOCATION WITH ELEVATOR INSTALLER IN THE FIELD.
- 13 PROVIDE ELECTRICAL JUNCTION BOX TO SUIT CO WALL SENSOR. COORDINATE MOUNTING LOCATION WITH MECHANICAL CONTRACTOR IN THE FIELD. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION.
- 14 MAIN FUSED SAFETY DISCONNECT SWITCH TO SUIT ELEVATOR. COORDINATE REQUIREMENT AND LOCATION WITH ELEVATOR INSTALLER. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION.
- 15 NON FUSED SAFETY DISCONNECT SWITCH TO SUIT ELEVATOR CAR LIGHT. COORDINATE REQUIREMENT AND LOCATION WITH ELEVATOR INSTALLER. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION.
- 16 EXISTING RELOCATED GENERATOR REMOTE ANNUNCIATOR PANEL.
- 17 DEDICATED RECEPTACLE FOR TRAP PRIMER SENSOR. COORDINATE LOCATION WITH PLUMBING CONTRACTOR IN THE FIELD.
- 18 FIRE ALARM DUCT SMOKE DETECTOR. CONTRACTOR SHALL INTERCONNECT UNIT WITH FIRE ALARM CONTROL PANEL AND WIRE AS PER MANUFACTURER REQUIREMENTS. CONTRACTOR TO VERIFY SETTINGS, ETC. TO INSURE COMPATIBILITY OF EQUIPMENT PRIOR TO INSTALLATION. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION.
- 19 FIRE ALARM REMOTE TEST SWITCH. CONTRACTOR TO COORDINATE MOUNTING LOCATION IN THE FIELD WITH MECHANICAL CONTRACTOR. WIRE AS PER MANUFACTURER REQUIREMENTS. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION.
- 20 POWER RECEPTACLE TO BE PROVIDED WITH UNIT AND WIRED BY ELECTRICAL CONTRACTOR
- 21 PROVIDE NEW ACCESS CONTROL CABINET KANTECH: KT300. PROVIDE ALL COMPONENTS NECESSARY INCLUDED BUT NOT LIMITED TO POWER SUPPLY CABINET, 12V BATTERY WITH ENCLOSURE, TRANSFORMER, TAMPER SWITCH, CARD READERS, DOOR LOCKING DEVICE, REQUEST TO EXIT DEVICE, DOOR CONTACT, 120W AC/DC ADAPTER, AND ETHERNET CABLE FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION.
- 22 FURNISH & INSTALL A MACURCO CM-12 OR EQUAL LINE VOLTAGE CARBON MONOXIDE DETECTOR, CONTROLLER & TRANSDUCER, WIRE TO ACTIVATE EF-10.
- 23 PROPOSED LOCATION FOR NEW PUSH TO EXIT BUTTON. PROVIDE SURFACE MOUNT BOX AND MOUNT 48" MAX. ABOVE FINISHED FLOOR TO TOP UNIT. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE APPROVED INSTALLATION TO BE FULLY OPERATIONAL.

DRAWING KEY NOTES CONTINUED

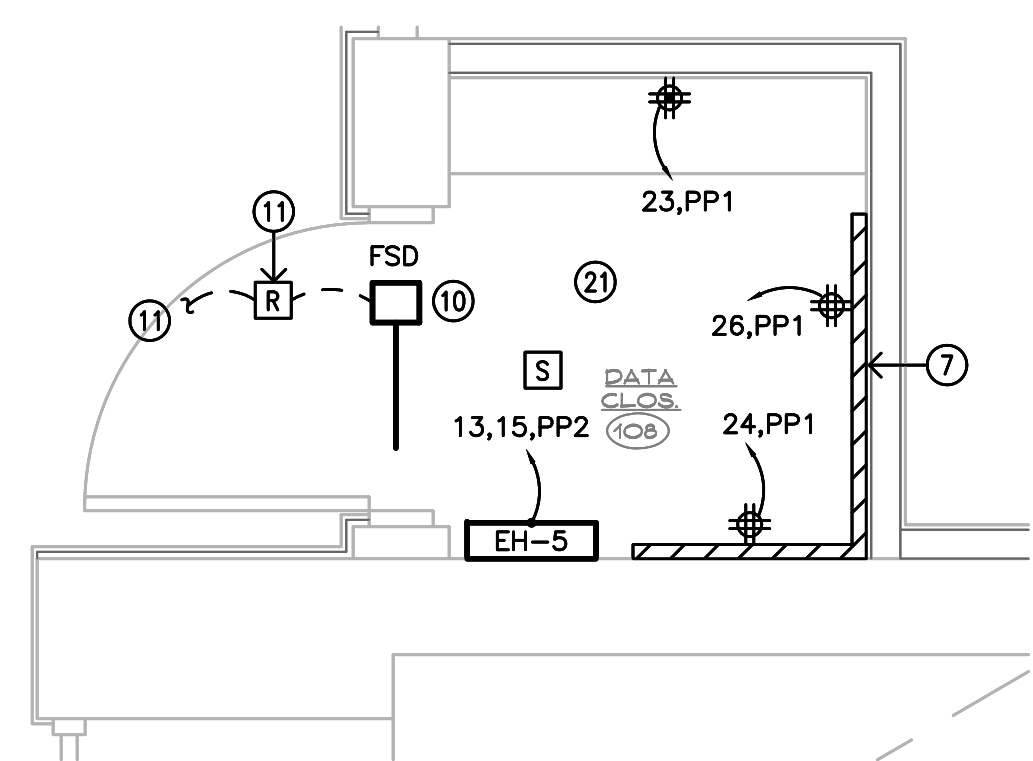
- 24 WIRE NEW MOTORIZED CEILING RECESSED PROJECTOR SCREEN. INTERCONNECT WITH PROJECTOR SCREEN SWITCH AS PER MANUFACTURER REQUIREMENTS. COORDINATE SWITCH AND PROJECTOR SCREEN LOCATION WITH OWNER OR INSTALLER IN THE FIELD. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION.
- 25 CEILING MOUNTED DUPLEX RECEPTACLE TO SUIT CEILING MOUNT PROJECTOR. CONTRACTOR TO VERIFY AND COORDINATE EXACT LOCATION IN THE FIELD.
- 26 RECTANGULAR FLOOR BOX WITH TWO GANG STEEL FOR POWER AND DATA - LEGRAND #880W2. INSTALL AS PER MANUFACTURER REQUIREMENTS. COORDINATE LOCATION WITH OWNER PRIOR INSTALLATION. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE MANUFACTURER APPROVED INSTALLATION-TYPICAL.



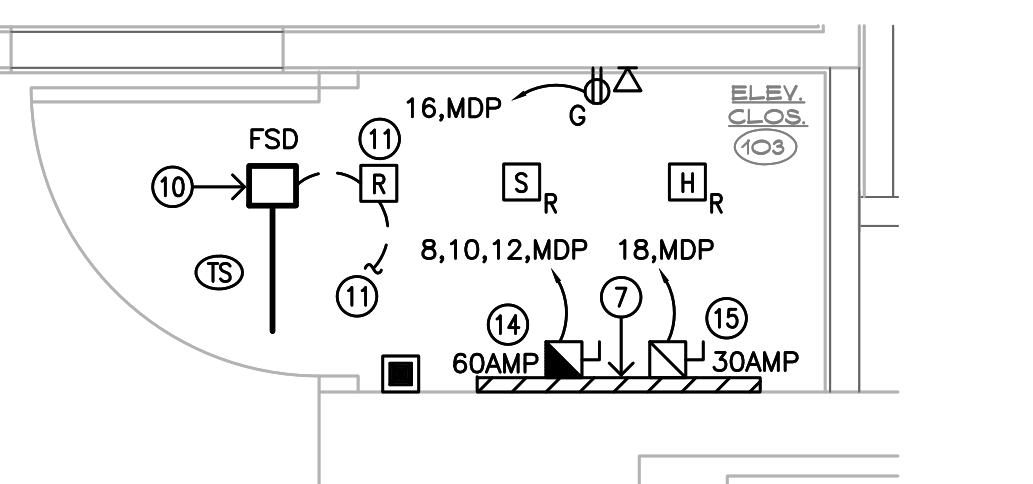
ELECTRICAL FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
NORTH



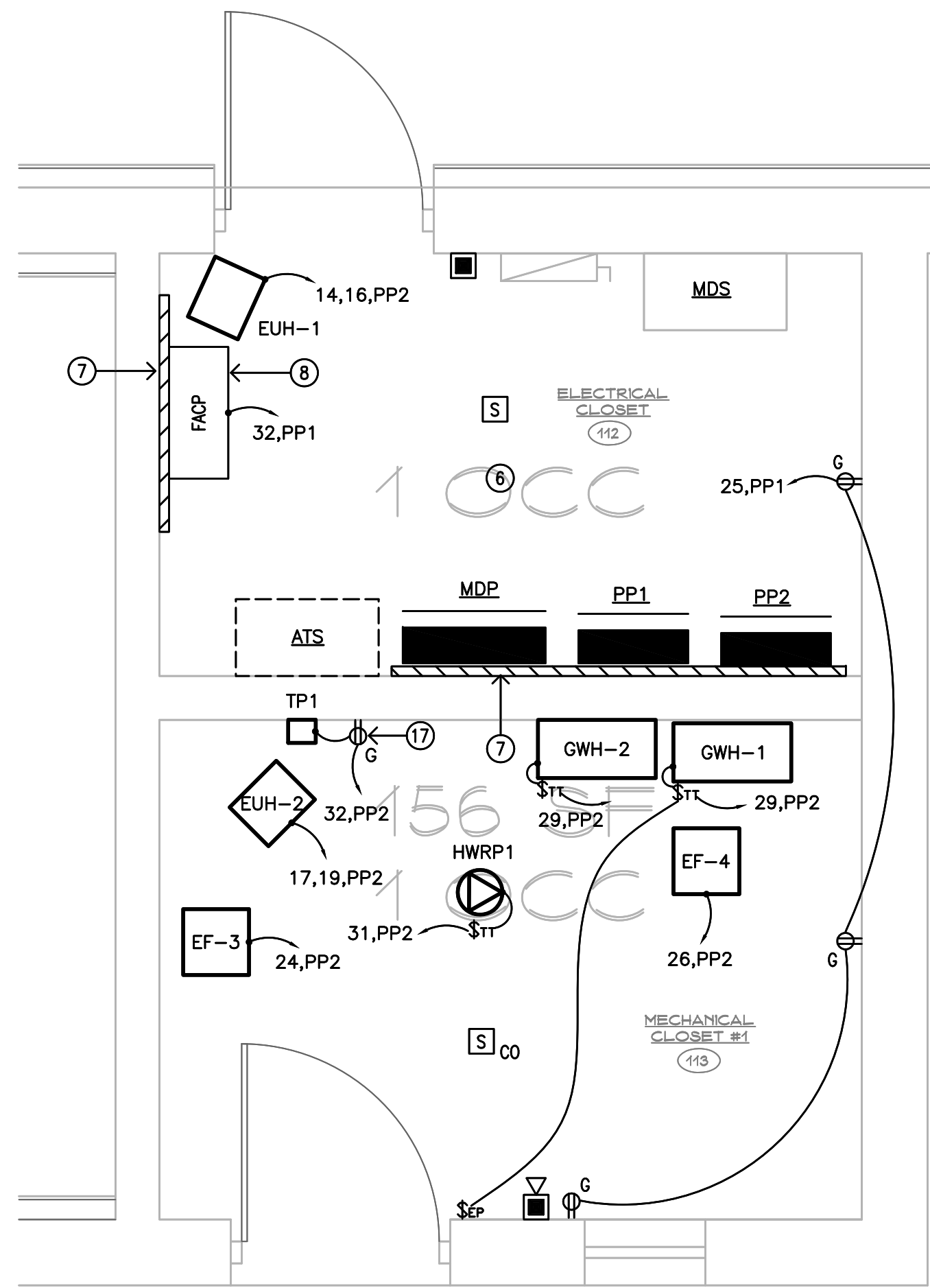
ELECTRICAL SECOND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
NORTH



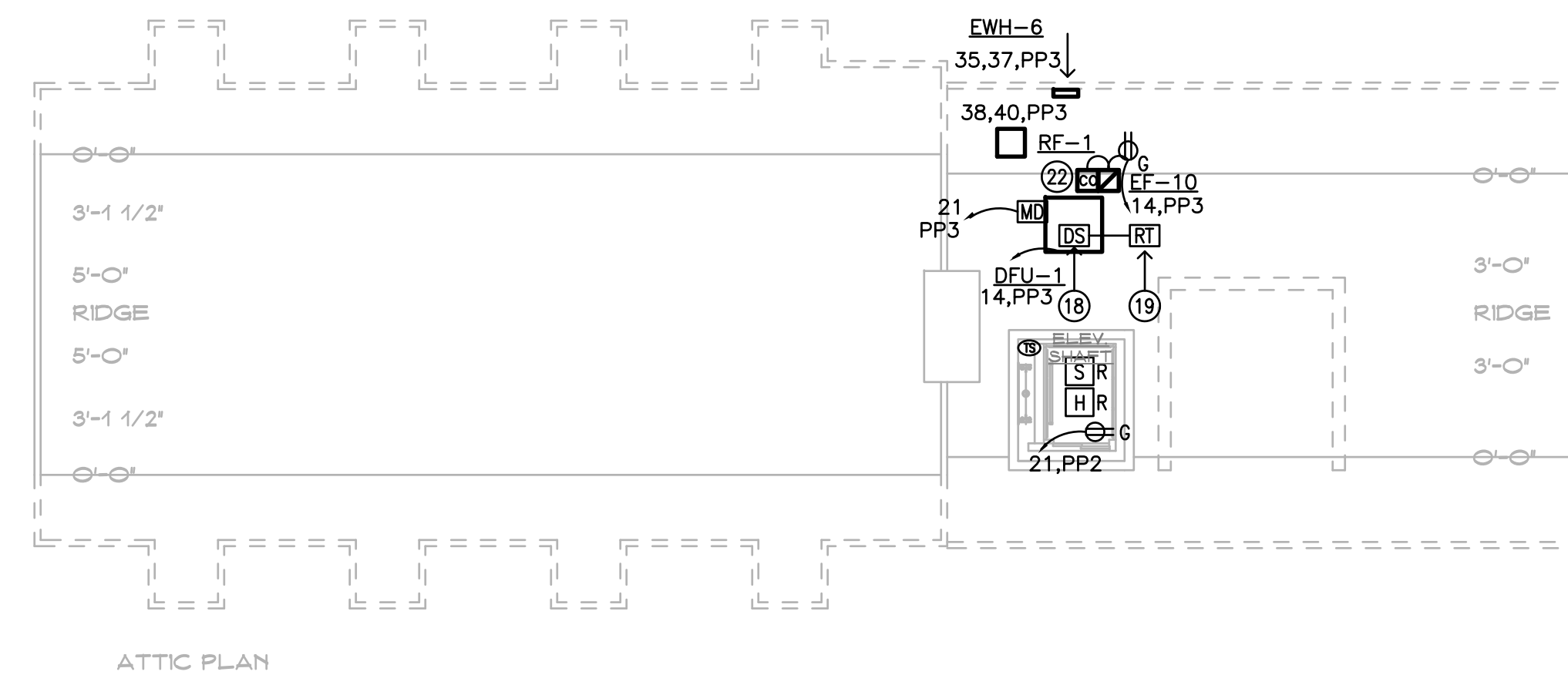
ELECTRICAL DATA CLOSET PART PLAN
SCALE: 1/2" = 4'-0"
NORTH



ELEVATOR CLOSET PART PLAN
SCALE: 1/2" = 4'-0"
NORTH



MECH. & ELECTRICAL PART PLAN
SCALE: 1/2" = 4'-0"
NORTH



ELECTRICAL ATTIC POWER PLAN
SCALE: 1/8" = 1'-0"
NORTH

GENERAL NEW WORK NOTES

1. SPECIFICATION SECTIONS, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS AND DRAWINGS ARE INTEGRAL PARTS OF CONTRACT DOCUMENTS.
2. SYSTEM COMPONENTS ARE LOCATED APPROXIMATELY ON DRAWINGS. BASE ACTUAL LOCATIONS ON FIELD VERIFICATION OF EXISTING BUILDING CHARACTERISTICS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL & ARCHITECTURAL COMPONENTS.
3. ALL WORK AND ACTION DEPICTED AND DESCRIBED IN CONTRACT DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
4. REFERENCE TO SPECIFIC SUB-CONTRACTORS SUCH AS "MECHANICAL", "ELECTRICAL", ETC. ARE INTENDED TO SUGGEST POSSIBLE DIVISION OF RESPONSIBILITY. PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND EXECUTION OF ALL WORK.
5. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
6. ALL EQUIPMENT, MATERIALS AND RELATED SYSTEM COMPONENTS SHALL BE NEW UNLESS NOTED OTHERWISE.
7. REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
8. CIRCUITING DEPICTED FOR RECEPTACLES DEFINES GROUPING OF DEVICES AND COMPONENTS AND REQUIRED CONDUCTORS. CIRCUITING IS NOT INTENDED TO DEFINE CONDUIT LOCATIONS.
9. STUDY THE PROJECT MANUAL & DRAWINGS OF OTHER DISCIPLINES INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL & MECHANICAL.
10. ELECTRICAL CONDUITS & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE.
11. FURNISH & INSTALL GFCI RECEPTACLES IN ALL WET LOCATIONS.
12. ALL PENETRATIONS THRU RATED WALLS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR INDICATED RATINGS.
13. NO PENETRATIONS ARE ALLOWED INTO STAIR ENCLOSURES EXCEPT AS REQUIRED FOR SERVICES UTILIZED IN THE STAIR.
14. ALL INSTALLATIONS ON NEW WALLS SHALL BE FULLY RECESSED. INSTALLATIONS ON EXISTING MASONRY WALLS SHALL BE RUN WITH SURFACE RACEWAY PAINTED TO MATCH WALL FINISH AND SURFACE BOXES. INSTALLATIONS ON EXISTING STUD WALLS SHALL CUT IN OLD-WORK STYLE BOXES AND FISH WIRING IN WALL CAVITY.

Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525

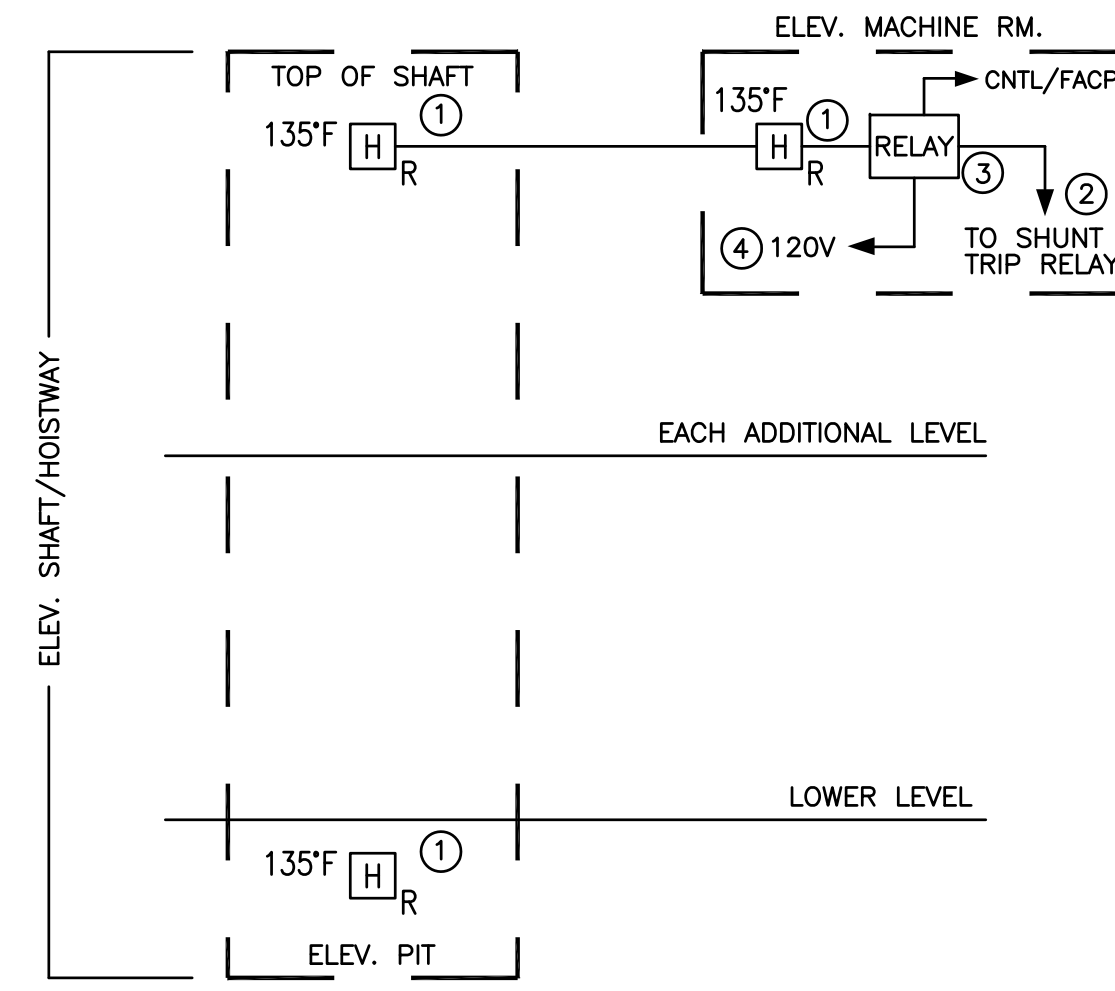


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| Revision | Description | Date | Revised By |
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ELECTRICAL POWER FLOOR PLANS

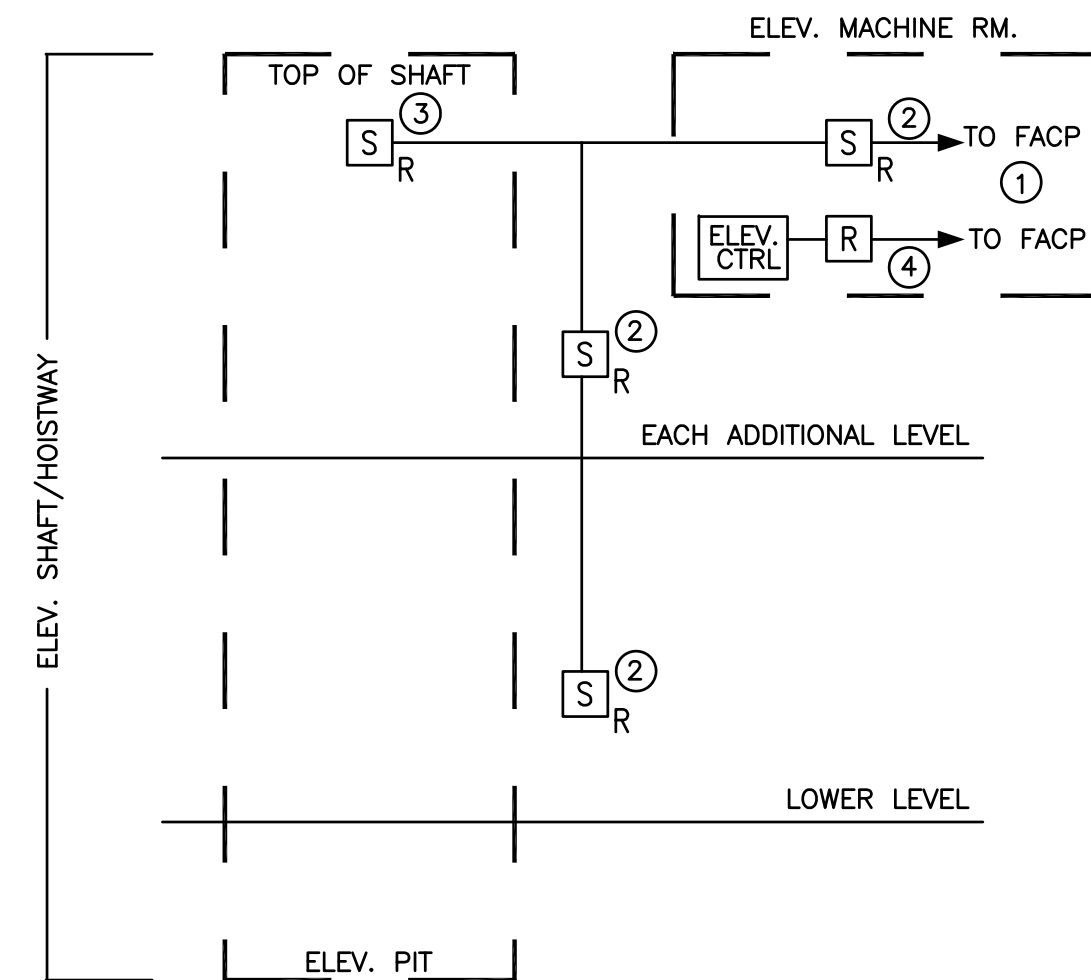
Date: 5.18.18
Scale: AS NOTED
Drawn By: JRP/PJE LC
Project Number: 11.447



**SCHEMATIC WIRING DIAGRAM
ELEVATOR SHUNT-TRIP HEAT DETECTORS**

NTS

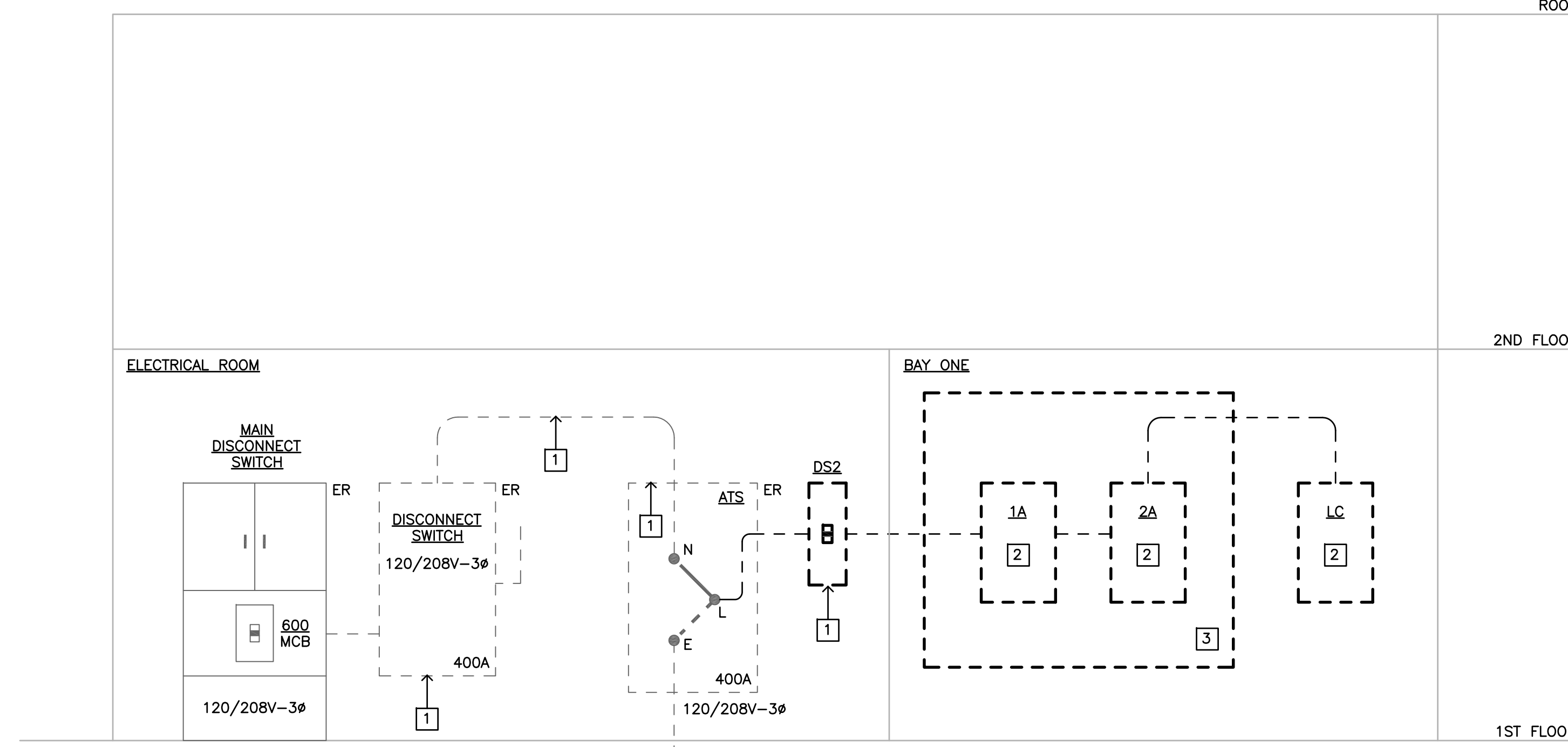
- ELEV. SHUNT TRIP HEAT DETECTORS TO BE INSTALLED IN ELEV. MACHINE RM, TOP OF SHAFT AND IN PIT. REFER TO SPRINKLER AND FIRE PROTECTION DRAWINGS, QUANTITY OF DETECTORS SHALL MATCH THE NUMBER OF SPRINKLER HEADS IN ELEV. MACHINE RM AND SHAFT/HOISTWAY. DETECTORS SHALL BE INSTALLED WITHIN 24" OF SPRINKLER HEAD. DETECTORS SHALL ALSO BE WIRED TO THE FIRE ALARM CONTROL PANEL. PIT DETECTOR MAY BE OMITTED IF SPRINKLER HEAD IS LESS THAN 24" AFF.
- PROVIDE SHUNT TRIP CIRCUIT BREAKER AT PANELBOARD.
- PROVIDE RELAY IF REQUIRED FOR HEAT DETECTOR CONTACTS TO ACTIVATE SHUNT TRIP BREAKER.
- PROVIDE DEDICATED 120V BRANCH CIRCUIT.
- ALL WIRING PER FIRE ALARM SYSTEM MANUFACTURER'S REQUIREMENTS.
- COORDINATE ADDITIONAL REQUIREMENTS WITH ELEVATOR AND FIRE ALARM MANUFACTURERS AND CONTRACTORS.



**SCHEMATIC WIRING DIAGRAM
ELEVATOR RECALL SMOKE DETECTORS**

NTS

- TIE INTO FIRE ALARM CONTROL PANEL.
- PROVIDE ELEV. RECALL SMOKE DETECTORS IN ELEV. MACHINE RM AND AT EACH ELEV. DOOR OPENING ON EACH LEVEL.
- IF ELEV. SHAFT/HOISTWAY IS SPRINKLERED, PROVIDE ELEV. RECALL SMOKE DETECTOR AT TOP OF SHAFT/HOISTWAY.
- PROVIDE ADDRESSABLE RELAYS AS REQUIRED TO PRODUCE THREE SEPARATE "SIGNALS":
 - ONE (1) FOR TYPICAL LOBBY DETECTOR(S)
 - ONE (1) FOR DESIGNATED LEVEL LOBBY DETECTOR(S)
 - ONE (1) FOR THE ELEV. MACHINE RM AND SHAFT/HOISTWAY DETECTOR(S)
- TYPICAL DEVICES SHOWN. REFER TO DWGS FOR QUANTITY.
- COORDINATE ADDITIONAL REQUIREMENTS WITH ELEV. AND FIRE ALARM MANUFACTURERS AND CONTRACTORS.
- ALL WIRING PER FIRE ALARM SYSTEM MANUFACTURER'S REQUIREMENTS.



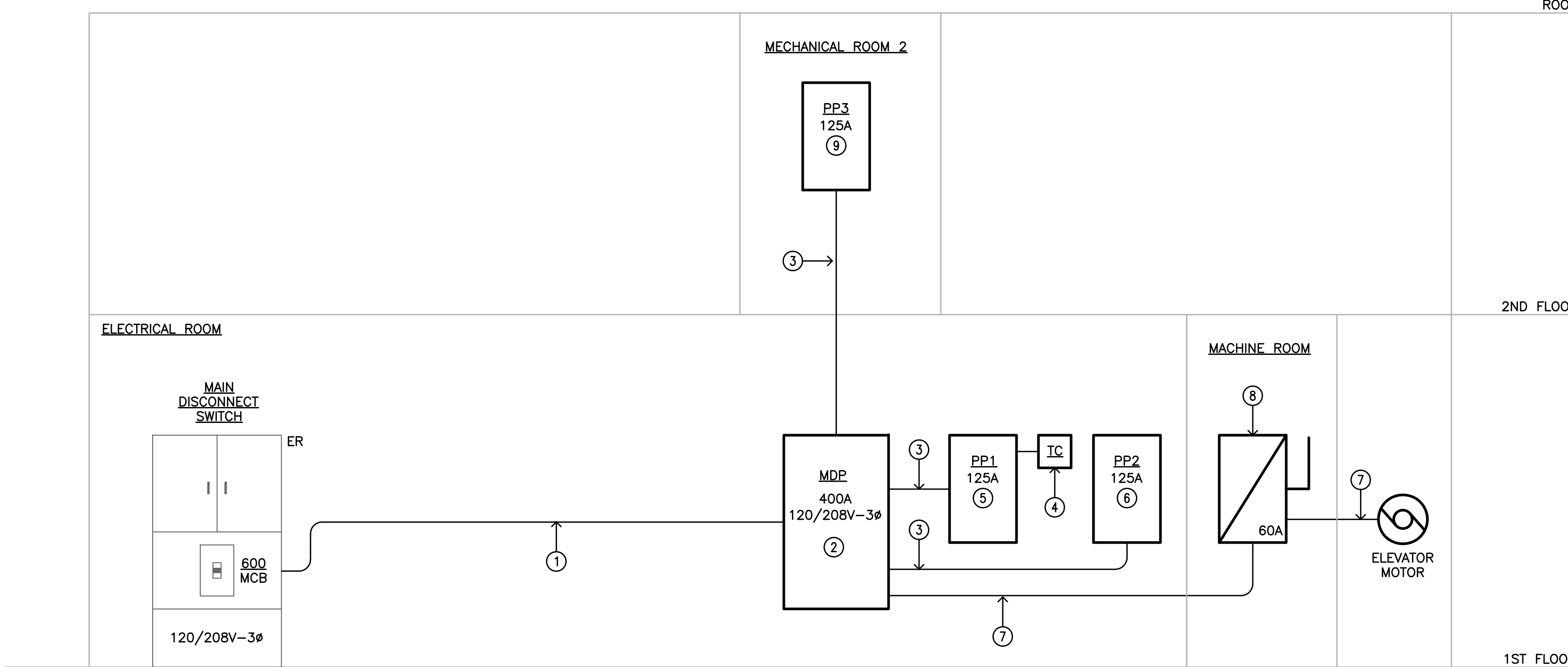
LEGEND

- TO BE REMOVED
- EXISTING TO REMAIN

ONE-LINE RISER DIAGRAM - DEMOLITION

SCALE: NONE

- DISCONNECT AND REMOVE THE 400 AMP ATS / DISCONNECT SWITCH AND DS2 CIRCUIT BREAKER BACK TO SOURCE. MAKE SAFE ALL WIRING TO / FROM THE EXISTING ATS MAIN SERVICE PANEL.
- DISCONNECT AND REMOVE EXISTING ELECTRICAL PANELBOARD, ASSOCIATED CONDUIT AND FEEDER BACK TO SOURCE.
- REMOVE EXISTING PLYWOOD BACKBOARD AND ASSOCIATED EQUIPMENT/PANELS ATTACHED.



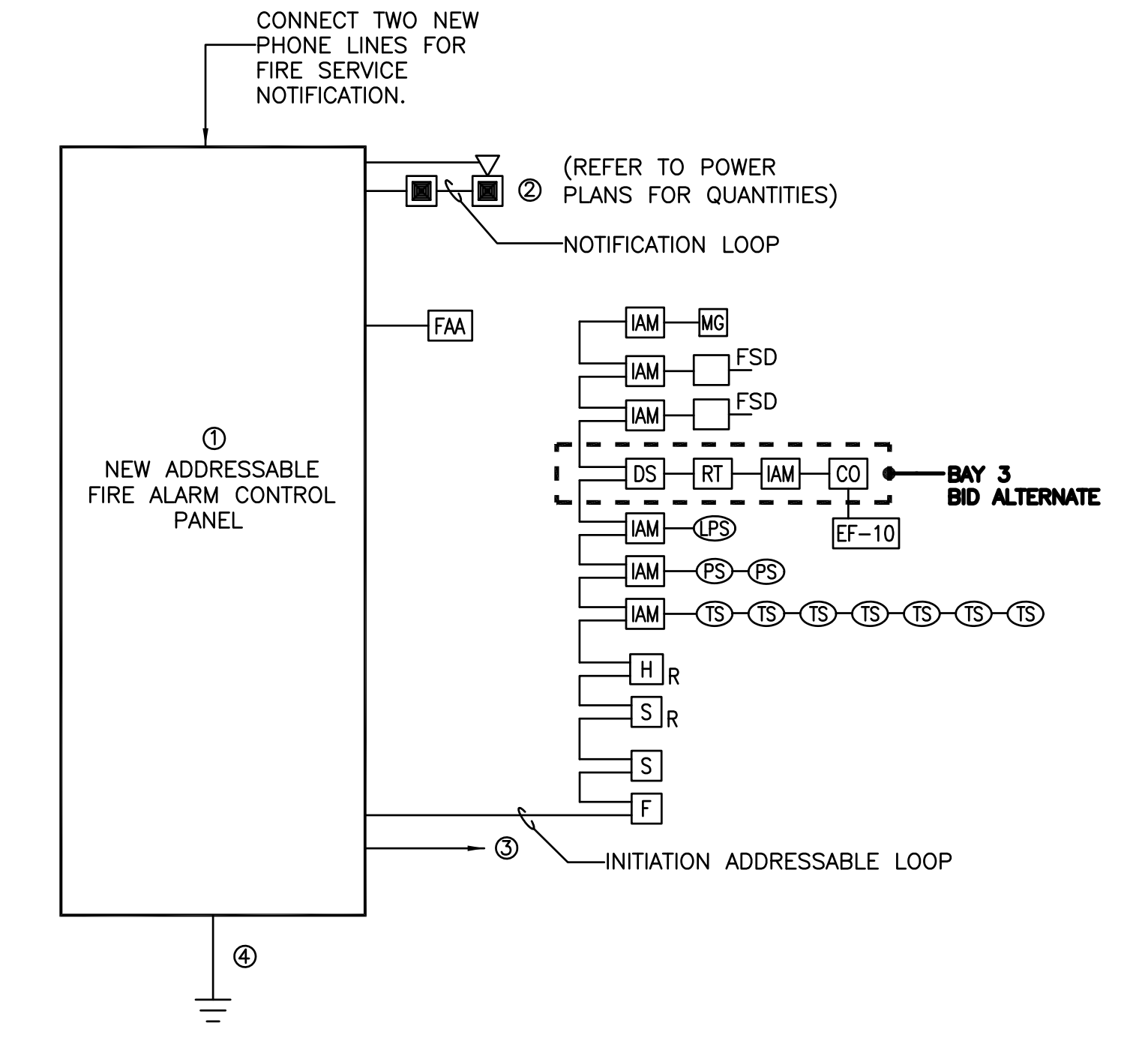
LEGEND

- NEW WORK
- EXISTING TO REMAIN

ONE-LINE RISER DIAGRAM -NEW WORK

SCALE: NONE

- PROVIDE 4°C, 4#600KCMILL, 1#3G.
- NEW ELECTRICAL MAIN DISTRIBUTION PANEL RATED FOR 120/208V, 400A, 3Ø, 4 WIRE. REFER TO PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.
- PROVIDE 2°C, 4#1, 1#6G.
- DIGITAL PROGRAMMABLE TIME CLOCK INTERCONNECT WITH PHOTOCELL AS PER MANUFACTURER REQUIREMENT. REFER TO CONTACTOR DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW ELECTRICAL PANELBOARD "PP-1" RATED FOR 120/208V, 125A, 3Ø, 4 WIRE. REFER TO PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.
- NEW ELECTRICAL PANELBOARD "PP-2" RATED FOR 120/208V, 125A, 3Ø, 4 WIRE. REFER TO PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.
- PROVIDE 1°C, 4#8, 1#10G.
- 60 AMP, 3 POLE HEAVY DUTY SAFETY SWITCH WITH (3) CLASS RK5 FUSES, NEMA TYPE 1 ENCLOSURE; COORDINATE EXACT REQUIREMENTS WITH THE ELEVATOR MANUFACTURER AND INSTALLER. PROVIDE WITH AUXILIARY CONTACT FOR BATTERY SYSTEM.
-

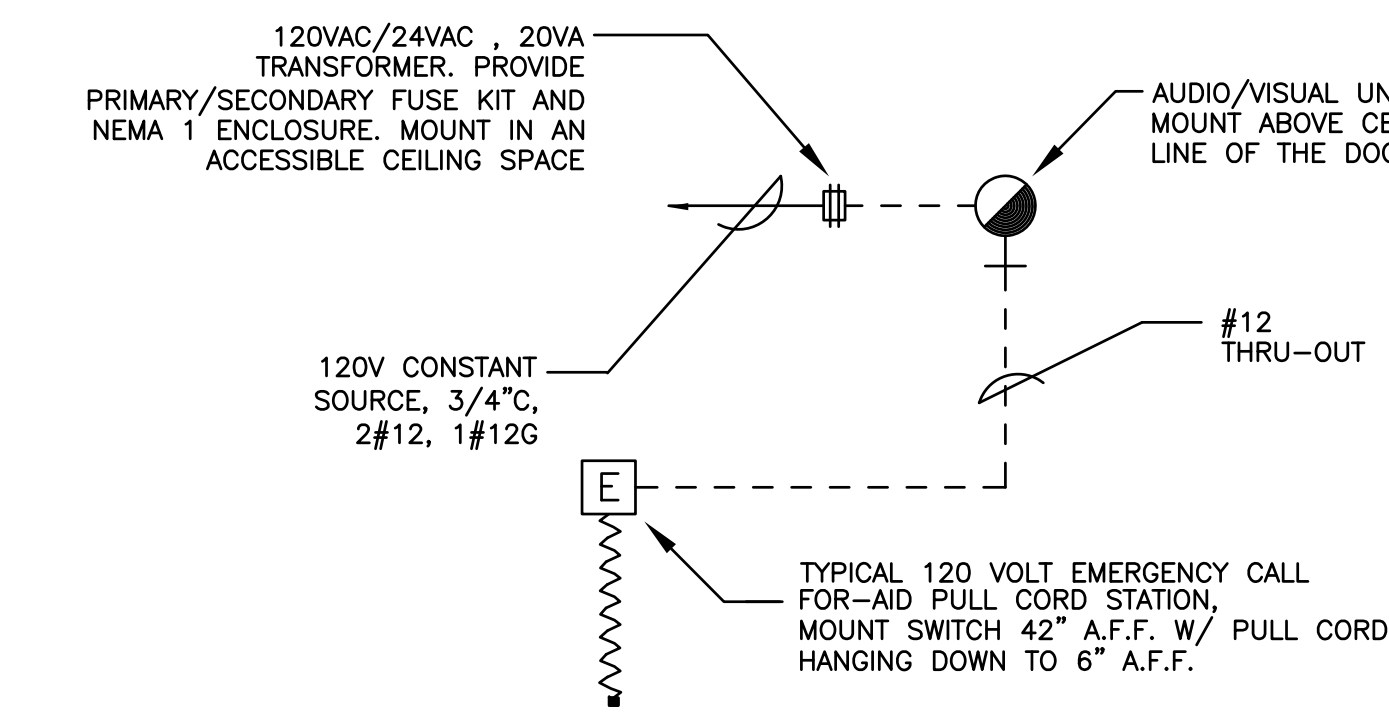


FIRE ALARM RISER DIAGRAM

SCALE: NONE

- NEW ADDRESSABLE FIRE ALARM CONTROL PANEL LOCATED IN ELECTRICAL CLOSET 112. FIRE ALARM CONTROL PANEL SHALL BE FURNISHED WITH ALL COMPONENTS REQUIRED TO SERVE NEW DEVICES SHOWN ON DRAWINGS.
 - ALL STROBES SHALL BE SYNCHRONIZED.
 - PROVIDE 120VAC, 3/4°C, 2#12, 1#12G, CONNECT TO DEDICATED 1P, 20A BRANCH CIRCUIT BREAKER. PROVIDE CIRCUIT BREAKER TAB LOCK.
 - 3/4°C, #6 CONNECT TO EXISTING MAIN GROUND SOURCE. CONTRACTOR SHALL VERIFY THE EXISTING GROUND CONNECTION IN THE FIELD.
- GEN. ALL WIRING TO BE PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
 GEN. FURNISH DEVICES WITH ALL NECESSARY MATERIALS AND ACCESSORIES FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.
 GEN. MOUNT NOTIFICATION DEVICES 80" AFF OR 6" BELOW CEILING, WHICH EVER IS LOWER. MOUNT PULL STATIONS AT 48" AFF.
 GEN. PROVIDE FRAMED BUILDING LAYOUT ADJACENT TO CONTROL PANEL & REMOTE ANNUNCIATOR.
 GEN. ALARM WORK SHALL BE INCLUDED IN THE BASE BID.
 GEN. COORDINATE EXACT LOCATION OF FIRE ALARM CONTROL PANEL WITH FIRE MARSHAL.
 GEN. FIRE ALARM DEVICES MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS.
 GEN. NO SMOKE DETECTOR SHALL BE LOCATED WITHIN 3 FEET OF A SUPPLY AIR OUTLET.

| FIRE ALARM LEGEND | |
|-------------------|---|
| [FACP] | NEW ADDRESSABLE FIRE ALARM CONTROL PANEL |
| [FAA] | NEW LCD REMOTE ANNUNCIATOR WITH SILENCE AND RESET FUNCTION |
| [S] | ADA WALL MOUNT SPEAKER/STROBE |
| [S] | ADA WALL MOUNT STROBE LIGHT |
| [F] | ADDRESSABLE DUAL ACTION PULL STATION W/ KEY RESET & ARMED COVER |
| [S] | ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR |
| [H]R | ADDRESSABLE 135° FIXED TEMP RECALL HEAT DETECTOR |
| [S]R | ADDRESSABLE PHOTOELECTRIC RECALL SMOKE DETECTOR |
| [DS] | ADDRESSABLE DUCT SMOKE DETECTOR |
| [RT] | REMOTE TEST SWITCH |
| [MG] | FIRE ALARM ELECTROMAGNETIC DOOR HOLDER/RELEASES |
| [IAM] | ADDRESSABLE MODULE FOR MONITORING OF FLOW/TAMPER/PRESSURE SWITCH. SWITCHES ARE BY SPRINKLER CONTRACTOR. CONFIRM QUANTITY IN FIELD. |
| [TS] | SPRINKLER TAMPER SWITCH |
| [PS] | SPRINKLER PRESSURE SWITCH |
| [LPS] | SPRINKLER LOW PRESSURE SWITCH |
| [FSD] | FIRE SMOKE DAMPER |
| [CO] | CARBON MONOXIDE DETECTOR. PROVIDE SYSTEM TYPE DEVICE OR AC/DC UNIT WITH AUX CONTACT AND ADDRESSABLE MODULE FOR MONITORING. SEE NOTE 22 ON E3. |



HANDICAPPED CALL-FOR-AID SYSTEM

SCALE: NONE

Renovations to:
Old Woodbridge Fire Station
4 Newton Road
Woodbridge, Connecticut 06525



SILVER / PETRUCCI + ASSOCIATES
Architects / Engineers / Interior Designers

3190 Whitney Avenue, Hamden, CT 06518-2340
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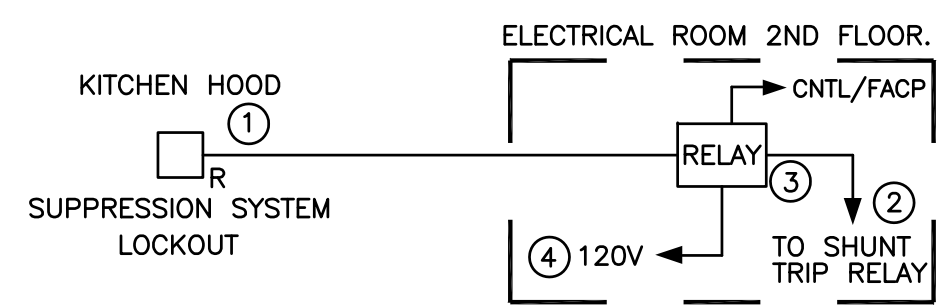
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Electrical Riser, Wiring Diagrams,
AND DETAILS

Date: 5.18.16
Scale: AS NOTED
Drawn By: JRP/PJE LC
Project Number: 11.147

| EQUIPMENT SCHEDULE | | | | | | | | | | |
|--------------------|---------|-------|--------------|-----------------------------|---------|---------------|---------------|---------------------------|---------------------|-------|
| SYMBOL | VOLTAGE | PHASE | CIRCUIT AMPS | DISCONNECT SWITCH | BREAKER | PANEL CIRCUIT | WIRE | CONNECTION | LOCATION | NOTES |
| RTU-1 | 208 | 1 | 31 | BY MFR. | 50A/2P | PP2 | 1" C, 3#8 | HARDWIRE TO DISC. | ROOF | ① |
| RTU-2 | 208 | 1 | 41 | BY MFR. | 70A/2P | PP2 | 1-1/4" C, 3#4 | HARDWIRE TO DISC. | ROOF | ① |
| EF-1 | 115 | 1 | 1.0 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | WOMEN'S TOILET | ①② |
| EF-2 | 115 | 1 | 1.0 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | MEN'S TOILET | ①② |
| EF-3 | 115 | 1 | 2.0 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | ELECTRICAL ROOM | ①④ |
| EF-4 | 115 | 1 | 2.0 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | MECHANICAL ROOM | ①④ |
| EF-5 | 208 | 1 | 7.6 | BY M.C. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | BAY 101 | ①④ |
| EF-6 | 115 | 1 | 6.0 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | ELEVATOR CONTROLLER | ①④ |
| EF-7 | 115 | 1 | 1 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | JANITOR CLOSET | ①② |
| EF-8 | 208 | 1 | 7.6 | BY M.C. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | BAY 101 | 1 4 |
| EF-9 | 115 | 1 | 6.0 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | ELEVATOR CONTROLLER | ①④ |
| EF-10 | 115 | 1 | 1 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | JANITOR CLOSET | ①② |
| SF-1 | 208 | 1 | 6.0 | BY M.C. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | BAY 101 | ①④ |
| TF-1 | 115 | 1 | 2.0 | BY M.C. | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO DISC. | DATA CLOSET | ①④ |
| EW-1 | 208 | 1 | 7.6 | BY MFR. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | STAIR #1 | ③ |
| EW-2 | 208 | 1 | 7.6 | BY MFR. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | WOMEN'S TOILET | ③ |
| EW-3 | 208 | 1 | 7.6 | BY MFR. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | MEN'S TOILET | ③ |
| EW-4 | 208 | 1 | 11.2 | BY MFR. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | ENTRANCE | ③ |
| EW-5 | 208 | 1 | 5.8 | BY MFR. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | DATA CLOSET | ③ |
| EW-6 | 208 | 1 | 5.8 | BY MFR. | 20A/2P | PP3 | 3/4" C, 3#12 | HARDWIRE TO DISC. | MECH CLOSET 204 | ③ |
| EUH-1 | 208 | 1 | 11.2 | BY MFR. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | ELECTRICAL ROOM | ③ |
| EUH-2 | 208 | 1 | 11.2 | BY MFR. | 20A/2P | PP2 | 3/4" C, 3#12 | HARDWIRE TO DISC. | MECHANICAL ROOM | ③ |
| GWH-1 | 120 | 1 | 5.0 | THERMOPLASTIC TOGGLE SWITCH | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO TOGGLE SWITCH | MECHANICAL ROOM | |
| HWRP1 | 115 | 1 | 2.0 | THERMOPLASTIC TOGGLE SWITCH | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO TOGGLE SWITCH | MECHANICAL ROOM | |
| GFUH-1,2 | 115 | 1 | 2.0 | THERMOPLASTIC TOGGLE SWITCH | 20A/1P | PP2 | 3/4" C, 2#12 | HARDWIRE TO TOGGLE SWITCH | BAY 101 | |
| DH-1 | 120 | 1 | 5.9 | 125V POWER RECEPTACLE | 20A/1P | PP2 | 3/4" C, 2#12 | - | BAY 101 | |
| KEF-1 | 208 | 1 | 2.4 | BY MFR. | 15A/2P | PP3 | 3/4" C, 3#12 | HARDWIRE TO TOGGLE SWITCH | KITCHEN 2ND FL. | ③ |

- NOTES:
- SAFETY DISCONNECT SWITCH TO BE PROVIDED BY MECHANICAL AND WIRED BY ELECTRICAL.
 - INTERLOCK WITH LIGHTS OCCUPANCY SENSOR.
 - SAFETY DISCONNECT SWITCH TO BE PROVIDED BY MANUFACTURER WITHIN UNIT AND WIRED BY ELECTRICAL.
 - EQUIPMENT TO BE INTERCONNECTED WITH LINE VOLTAGE THERMOSTAT OR CONTROLLER. THERMOSTAT OR CONTROLLER TO BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL. COORDINATE CONTROLLER LOCATION WITH MECHANICAL DRAWINGS.
 - DISCONNECT SWITCHES & MOTOR STARTERS LISTED SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. COORDINATE SAFETY DISCONNECT PROVISION WITH MECHANICAL DRAWINGS PRIOR BIDDING/ORDER UNITS.
 - PROVIDE ANY 120V WIRING REQUIRED TO INTERLOCK EQUIPMENT WITH HVAC CONTROLS.



**KITCHEN HOOD SUPPRESSION SHUTDOWN
ELECTRIC STOVE SHUNT-TRIP**

- NOTES:
- ELEV. SHUNT TRIP HEAT DETECTORS TO BE INSTALLED IN ELEV. MACHINE RM, TOP OF SHAFT AND IN PIT. REFER TO SPRINKLER AND FIRE PROTECTION DRAWINGS. QUANTITY OF DETECTORS SHALL MATCH THE NUMBER OF SPRINKLER HEADS IN ELEV. MACHINE RM AND SHAFT/HOISTWAY. DETECTORS SHALL BE INSTALLED WITHIN 24" OF SPRINKLER HEAD. DETECTORS SHALL ALSO BE WIRED TO THE FIRE ALARM CONTROL PANEL. PIT DETECTOR MAY BE OMITTED IF SPRINKLER HEAD IS LESS THAN 24" AFF.
 - PROVIDE SHUNT TRIP CIRCUIT BREAKER AT PANELBOARD.
 - PROVIDE RELAY IF REQUIRED FOR HEAT DETECTOR CONTACTS TO ACTIVATE SHUNT TRIP BREAKER CIRCUITS 21,23 PP3.
 - PROVIDE DEDICATED 120V BRANCH CIRCUIT.
 - ALL WIRING PER FIRE ALARM SYSTEM MANUFACTURER'S REQUIREMENTS.
 - COORDINATE ADDITIONAL REQUIREMENTS WITH ELEVATOR AND FIRE ALARM MANUFACTURERS AND CONTRACTORS.

| RATINGS: 240V/400A MCB 42,000 AIC SERVICE: 208 Y/120V, 3 PHS/4-WIRE | | | | | | | | | | | | | PANEL "MDP" | | | LOCATION: ELEC. CLOSET 112 MOUNTING: SURFACE | | |
|---|------|------|----------|------|-----------|----------|---|---|---|----------|-----------|------|-------------|------|------|---|--|--|
| DESCRIPTION | NOTE | AMPS | TRIP AMP | POLE | CKT. TYP. | CKT. NO. | A | B | C | CKT. NO. | CKT. TYP. | POLE | TRIP AMP | AMPS | NOTE | DESCRIPTION | | |
| PANELBOARD "PP-1" | | 80 | | | | 1 | | | | 2 | | | 144 | | | PANELBOARD "PP-2" | | |
| | | 75 | 125 | 3 | C | 3 | | | | 4 | C | 3 | 125 | 146 | | | | |
| | | 91 | | | | 5 | | | | 6 | | | | 72 | | | | |
| | | 51 | | | | 7 | | | | 8 | | | | 32 | | | | |
| PANELBOARD "PP-3" | | 48 | | | | 9 | | | | 10 | C | 3 | 40 | 32 | ② | ELEVATOR | | |
| | | 56 | 125 | 3 | C | 11 | | | | 12 | | | | 32 | | | | |
| EXISTING GEN. BLOCK HTR. | | 16 | 30 | 1 | A | 13 | | | | 14 | A | 1 | 20 | 2.0 | | ELEV. MACH. RM LIGHTING | | |
| EXIST. GEN. BATTERY CHGR. | | 5.0 | 20 | 1 | A | 15 | | | | 16 | A | 1 | 20 | 2.0 | | ELEVATOR RECEPTACLE | | |
| EXIST. TEMPORARY LIGHT | | 6.0 | 20 | 1 | A | 17 | | | | 18 | A | 1 | 20 | 5.0 | | ELEVATOR GAR LIGHT | | |
| EXIST. TEMPORARY LIGHT | | 6.0 | 20 | 1 | A | 19 | | | | 20 | A | 1 | 20 | 4.0 | | EXISTING RECEPTACLES | | |
| ELEVATOR CONTROLLER | | 5.0 | 20 | 1 | A | 21 | | | | 22 | A | 1 | 20 | 0.0 | | SPARE | | |
| ELEVATOR BATTERY (USP) | | 5.0 | 20 | 1 | A | 23 | | | | 24 | A | 1 | 20 | 0.0 | | SPARE | | |
| EXISTING FLAG POLE LIGHT | | 0.0 | 20 | 1 | A | 25 | | | | 26 | A | 1 | 20 | 0.0 | | SPARE | | |
| SPARE | | - | - | 1 | - | 27 | | | | 28 | - | 1 | - | - | | SPARE | | |
| SPARE | | - | - | 1 | - | 29 | | | | 30 | - | 1 | - | - | | SPARE | | |
| SPARE | | - | - | 1 | - | 31 | | | | 32 | - | 1 | - | - | | SPARE | | |
| SPACE | | - | - | 1 | - | 33 | | | | 34 | - | 1 | - | - | | SPACE | | |
| SPACE | | - | - | 1 | - | 35 | | | | 36 | - | 1 | - | - | | SPACE | | |
| SPACE | | - | - | 1 | - | 37 | | | | 38 | - | 1 | - | - | | SPACE | | |
| SPACE | | - | - | 1 | - | 39 | | | | 40 | - | 1 | - | - | | SPACE | | |
| SPACE | | - | - | 1 | - | 41 | | | | 42 | - | 1 | - | - | | SPACE | | |

NOTES:

- PANELBOARD SHALL BE CUTLER-HAMMER POW-R-LINE 1 OR EQUAL WITH MAIN CIRCUIT BREAKER.
- PROVIDE SHUNT TRIP BREAKER WITH CB LOCK.
- PROVIDE HACR BREAKER.
- UPGRADE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP.
- TOTAL CONNECTED LOAD: PHASE A - 335
PHASE B - 313
PHASE C - 267 } 110.2 KVA BASED ON 305 AMPS/PHASE
- CIRCUIT TYPE A: 120V, 3 WIRE IN CONDUIT OR MC CABLE.
- CIRCUIT TYPE B: 208V, 1Ø, 4 WIRE IN CONDUIT OR MC CABLE.
- CIRCUIT TYPE C: 208V, 3Ø, 5 WIRE IN CONDUIT OR MC CABLE.

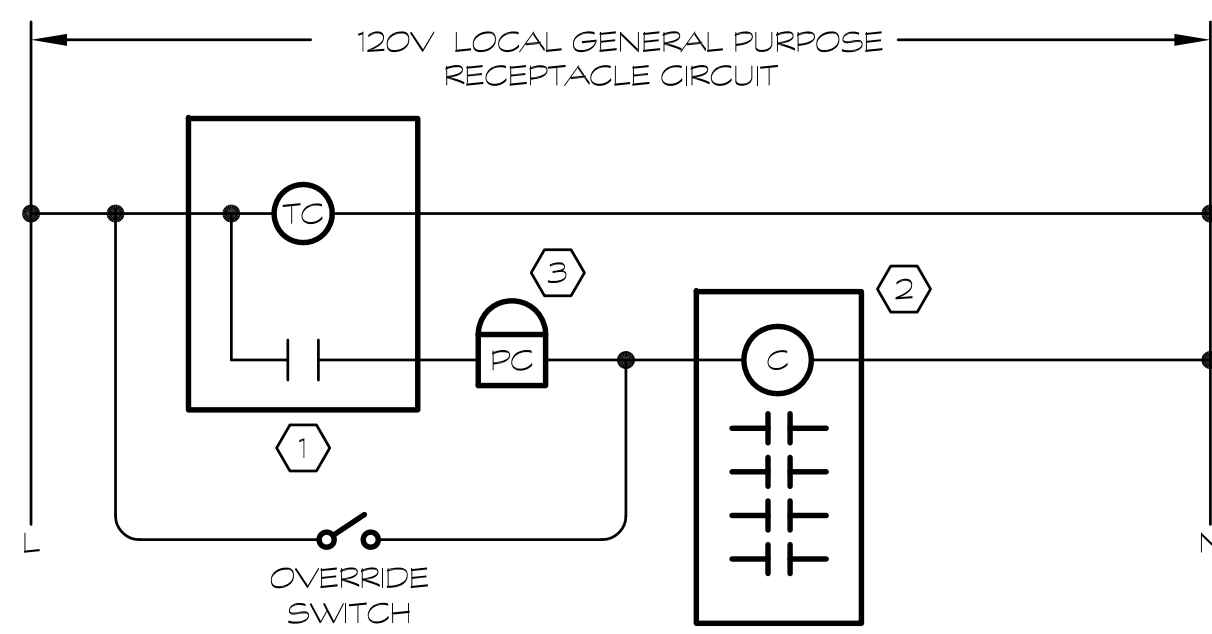
| RATINGS: 240V/125A MLO 22,000 AIC SERVICE: 208 Y/120V, 3 PHS/4-WIRE | | | | | | | | | | | | | PANEL "PP2" | | | LOCATION: ELEC. CLOSET 112 MOUNTING: SURFACE | | |
|---|------|------|----------|------|-----------|----------|---|---|---|----------|-----------|------|-------------|------|------|---|--|--|
| DESCRIPTION | NOTE | AMPS | TRIP AMP | POLE | CKT. TYP. | CKT. NO. | A | B | C | CKT. NO. | CKT. TYP. | POLE | TRIP AMP | AMPS | NOTE | DESCRIPTION | | |
| RTU-1 | | 41 | | | | 2 | B | | | 2 | B | 2 | 70 | 41 | | RTU-2 | | |
| | | 41 | 70 | 2 | B | 3 | | | | 4 | B | 2 | 70 | 41 | | | | |
| EW-1 | | 7.6 | 20 | 2 | B | 5 | | | | 6 | B | 2 | 20 | 7.6 | | EW-2 | | |
| | | 7.6 | 20 | 2 | B | 7 | | | | 8 | B | 2 | 20 | 7.6 | | | | |
| EW-3 | | 7.6 | 20 | 2 | B | 9 | | | | 10 | B | 2 | 20 | 11.2 | | EW-4 | | |
| | | 7.6 | 20 | 2 | B | 11 | | | | 12 | B | 2 | 20 | 11.2 | | | | |
| EW-5 | | 5.8 | 20 | 2 | B | 13 | | | | 14 | B | 2 | 20 | 11.2 | | EW-6 | | |
| | | 5.8 | 20 | 2 | B | 15 | | | | 16 | B | 2 | 20 | 11.2 | | | | |
| EUH-2 | | 11.2 | 20 | 2 | B | 17 | | | | 18 | B | 2 | 20 | 7.6 | | EF-5 | | |
| | | 11.2 | 20 | 2 | B | 19 | | | | 20 | B | 2 | 20 | 7.6 | | | | |
| MOTORIZED DAMPER | | 1 | 20 | 1 | A | 21 | | | | 22 | A | 1 | 20 | 1.0 | | EF-2 | | |
| SPARE | | 2.0 | 20 | 1 | A | 23 | | | | 24 | A | 1 | 20 | 2.0 | | EF-3 | | |
| EF-1 | | 1.0 | 20 | 1 | A | 25 | | | | 26 | A | 1 | 20 | 2.0 | | EF-4 | | |
| EF-6 | | 6.0 | 20 | 1 | A | 27 | | | | 28 | A | 1 | 20 | 7.6 | | TF-1 | | |
| GWH-1, 2 | | 5.0 | 20 | 1 | A | 29 | | | | 30 | A | 1 | 20 | 2.0 | | GFUH-1, 2 | | |
| HWRP1 | | 2.0 | 20 | 1 | A | 31 | | | | 32 | A | 1 | 20 | 4.0 | | TRAP PRIMER SENSOR | | |
| DH-1 RECEPTACLE | | 5.9 | 20 | 1 | A | 33 | | | | 34 | A | 1 | 20 | 2.0 | | ROOF TOP POWER RECEPT. | | |
| EF-7 | | 2.0 | 20 | 1 | A | 35 | | | | 36 | A | 1 | 20 | 2.0 | | ROOF TOP POWER RECEPT. | | |
| ACCU-1 | | 6.0 | 20 | 2 | B | 37 | | | | 38 | A | 1 | 20 | 2.0 | | GFUH-2 | | |
| | | 6.0 | 20 | 2 | B | 39 | | | | 40 | A | 1 | 20 | - | | SPARE | | |
| SPARE | | - | 20 | 1 | A | 41 | | | | 42 | A | 1 | 20 | - | | SPARE | | |

NOTES:

- PANELBOARD SHALL BE CUTLER-HAMMER POW-R-LINE 1 OR EQUAL WITH MAIN LUGS.
- PROVIDE CB LOCK.
- PROVIDE HACR BREAKER.
- UPGRADE WIRE SIZE AS REQUIRED TO MAINTAIN 3% MAXIMUM VOLTAGE DROP.
- TOTAL CONNECTED LOAD: PHASE A - 144
PHASE B - 146
PHASE C - 72 } 43.7 KVA BASED ON 121 AMPS/PHASE
- CIRCUIT TYPE A: 120V, 3 WIRE IN CONDUIT OR MC CABLE.
- CIRCUIT TYPE B: 208V, 1Ø, 4 WIRE IN CONDUIT OR MC CABLE.
- CIRCUIT TYPE C: 208V, 3Ø, 5 WIRE IN CONDUIT OR MC CABLE.

* = BAY 3 BID ALTERNATE

| RATINGS: 240V/125A MLO 22,000 AIC SERVICE: 208 Y/120V, 3 PHS/4-WIRE | | | | | | | | | | | | | PANEL "PP1" | | | LOCATION: ELEC. CLOSET 112 MOUNTING: SURFACE | | |
|---|------|------|----------|------|-----------|----------|---|---|---|----------|-----------|------|-------------|------|------|---|--|--|
| DESCRIPTION | NOTE | AMPS | TRIP AMP | POLE | CKT. TYP. | CKT. NO. | A | B | C | CKT. NO. | CKT. TYP. | POLE | TRIP AMP | AMPS | NOTE | DESCRIPTION | | |
| LIGHTING BAY ONE | | 4 | 20 | 1 | A | 1 | | | | 2 | A | 1 | 20 | 4 | | LIGHTING BAY ONE | | |
| LIGHTING EXERCISE 106 | | 5 | 20 | 1 | A | 3 | | | | 4 | A | 1 | 20 | 5 | | LIGHTING EXERCISE 106 | | |
| LIGHTING CORRIDOR | | 4 | 20 | 1 | A | 5 | | | | 6 | A | 1 | 20 | 5 | | LIGHTING MECH. TOILET RM. | | |
| LIGHTING EXERCISE 111 | | 9 | 20 | 1 | A | 7 | | | | 8 | A | 1 | 20 | 9 | | LIGHTING EXERCISE 111 | | |
| LIGHTING STAIRCASE 102 | | 2 | 20 | 1 | A | 9 | | | | 10 | A | 1 | 20 | 5 | | EXTERIOR LIGHTING | | |
| RECEPTACLES BAY ONE | | 10 | 20 | 1 | A | 11 | | | | 12 | A | 1 | 20 | 8 | | RECEPTACLES BAY ONE | | |
| RECEPTACLES RM.106 | | 8 | 20 | 1 | A | 13 | | | | 14 | A | 1 | 20 | 8 | | RECEPTAC. EXERCISE106 | | |
| DEDICATED TREADMILL | | 14 | 20 | 1 | A | 15 | | | | 16 | A | 1 | 20 | 14 | | DEDICATED TREADMILL | | |
| DEDICATED ELLIPTICAL | | 14 | 20 | 1 | A | 17 | | | | 18 | A | 1 | 20 | 14 | | DEDICATED ELLIPTICAL | | |
| DEDICATED ELLIPTICAL | | 14 | 20 | 1 | A | 19 | | | | 20 | A | 1 | 20 | 14 | | DEDICATED STEPPER | | |
| ELEVATOR PIT RECEPTACLE | | 2 | 20 | 1 | A | 21 | | | | 22 | A | 1 | 20 | 3 | | RECEPTACLES TOILET | | |
| RECEPTACLES DATA CLOSET | | 7 | 20 | 1 | A | 23 | | | | 24 | A | 1 | 20 | 3 | | RECEPTACLES DATA CLOSET | | |
| RECEPTAC. MECH. CLOSET | | 3 | 20 | 1 | A | 25 | | | | 26 | A | 1 | 20 | | | | | |



| CONTACTOR SCHEDULE | | | |
|--------------------|--|---|---------|
| IAG | DESCRIPTION | MODEL NO. | REMARKS |
| ① | DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7 DAY 35SDAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT. | TORK D2S100A OR EQUIVALENT INTERMATIC OR SQUARE D | 1,2 |
| ② | CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR, CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT. | ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARE D | |
| ③ | PHOTOCELL 180W, 15A, -40 DEG. TO 140 DEG., SOLID STATE SPST, DRY CONTACT, LIGHT LEVEL RANGE 1.5 TO 10FC WITH ADJUSTMENT, TIME DELAY 15 SEC. MINIMUM. | TORK 2100 SERIES OR EQUIVALENT INTERMATIC OR SQUARE D | 3 |

NOTES:
 1. TIMECLOCK SHALL BE PROGRAMMED TO TURN SITE LIGHTING ON AT DUSK (VIA PHOTOCELL) AND OFF AT 10PM DAILY AS PER TOWN ZONING REQUIREMENTS.
 2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL.
 3. PHOTOCELL TO BE LOCATED ON SOUTHERN EXPOSURE.

LIGHTING TIME CLOCK AND CONTACTOR DIAGRAM
 NOT TO SCALE

| GENERATOR MAINTENANCE | |
|-----------------------|--|
| 1. | CONTRACTOR SHALL ARRANGE AND PAY FOR A CUMMINGS GENERATOR OEM CERTIFIED TECHNICIAN TO PERFORM THE WORK INDICATED BELOW. |
| 2. | TEST & REPLACE BATTERIES A/R. |
| 3. | REPLACE BELTS & HOSES. |
| 4. | ANALYZE COOLANT, FUEL & OIL. PROVIDE REPORT ON FINDINGS. REPLACE COOLANT. |
| 5. | REPLACE BLOCK HEATER. |
| 6. | PERFORM LOAD BANK TEST. PROVIDE REPORT ON FINDINGS. |
| 7. | PERFORM LEVEL II PREVENTATIVE MAINTENANCE SERVICE. REFER TO SPECIFICATION 16660 FOR LIST OF APPLICABLE WORK. |
| 8. | IF INTERRUPTION OF POWER TO ANY BUILDING LOADS IS REQUIRED FOR GENERATOR WORK, THIS WILL NEED TO TAKE PLACE BETWEEN THE HOURS OF 12:00 AM AND 6:00 AM ON A SATURDAY OR SUNDAY. |

GENERATOR MAINTENANCE
 NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

| DESIGNATION | DESCRIPTION | MANUFACTURER/ MODEL NUMBER | LAMP | | | ELECTRICAL | | | NOTES |
|-------------|--|---|------|------------|----|------------|---------|-------|-------|
| | | | TYPE | COLOR TEMP | NO | BALLAST | VOLTAGE | WATTS | |
| A | 8' LENGTH PENDANT WITH PARABOLIC LOUVER LUMINAIRE | FINELITE S12-ID-PLV-8"-2E-H-840-FTO-120-DC-FA-FE-C4 | LED | 4K | 1 | ELECTRONIC | 120 | 57 | ① ⑥ |
| A1 | 4' LENGTH PENDANT WITH PARABOLIC LOUVER LUMINAIRE | FINELITE S12-ID-PLV-4"-2E-H-840-FTO-120-DC-FA-FE-C4 | LED | 4K | 1 | ELECTRONIC | 120 | 39 | ① ⑥ |
| B | 4' INDUSTRIAL CHAIN HUNG LUMINAIRE | DAY-BRITE LBX-SSL-840-UNV-W-UP-LBX-HANGER BRKT | LED | 4K | 1 | ELECTRONIC | 120/277 | 41 | ① |
| C | 9' LENGTH LED HIGH PERFORMANCE 4" APERTURE RECESSED | FINELITE HP4R-9-H-4000K-120-SC-C1 | LED | 4K | 1 | ELECTRONIC | 120 | 74 | ① |
| C1 | 4' LENGTH LED HIGH PERFORMANCE 4" APERTURE RECESSED | FINELITE HP4R-4-H-4000K-120-SC-C1 | LED | 4K | 1 | ELECTRONIC | 120 | 37 | ① |
| D | 2'X2' RECESSED TROFFER WITH .125 DIFFUSED LENS | DAY-BRITE 2-TG-3BL-840-R-2-FA-Q2F-UNV-DIM-2W | LED | 4K | 1 | ELECTRONIC | 120 | 62 | ① |
| EM | EMERGENCY LIGHTING UNIT, LED | CHLORIDE VLU2 | LED | - | 1 | ELECTRONIC | 120 | 1 | ② |
| F | 6 INCH RECESSED DOWNLIGHT | PATHWAY 6VLED-2800-4K-E1 / 6VLEDICE6 | LED | - | 1 | ELECTRONIC | 120 | 50 | ⑤ |
| F1 | 6 INCH RECESSED DOWNLIGHT FOR SLOPE CEILING | PATHWAY 6VLED-2800-4K-E1 / 6SCA-SCLPF | LED | - | 1 | ELECTRONIC | 120 | 50 | ⑤ |
| F | 6 INCH RECESSED DOWNLIGHT FOR SLOPE CEILING | PATHWAY 6VLED-1100-4K-E1 / 6SCA-SCLPF | LED | - | 1 | ELECTRONIC | 120 | 50 | ⑤ |
| G | 4' LENGTH SURFACE MOUNT WRAPAROUND, SUPPLY SPARE LENSES | DAY-BRITE OWL-40L 840 UNV-DIM-OWLED848 | LED | 4K | 1 | ELECTRONIC | 120 | 56 | ⑤ |
| H | EXTERIOR HALF CYLINDER SCONCE WITH REMOTE EMERGENCY BATTERY | GARCO 104L-16-530-NW/G1-3-EBPC-120-LLC3W-WH | LED | 4K | 2 | ELECTRONIC | 120 | 28 | ① |
| K/EM | 4' LENGTH ADA WALL MOUNT LUMINAIRE WITH INTEGRATED ULTRASONIC OCCUPANCY SENSOR | LAMAR BAL 24 H PF TB 40 EM OS | LED | 4K | 2 | ELECTRONIC | 120 | 56 | ① ② |
| M | LUMINOUS SCONCE | LAMAR LIGHTING VESCL 1550 55 40 | LED | 4K | 1 | ELECTRONIC | 120 | 17 | ① |
| N | LED VAPORTIGHT SCONCE | BARN LIGHT BLE-W-000-LED | LED | 4K | 1 | ELECTRONIC | 120 | 26 | ① |
| O | CLOSET LIGHT WITH ON BOARD SENSOR - LED | LEVITON 9854-LED | LED | 4K | 1 | ELECTRONIC | 120 | 9 | ① |
| X | EXIT SIGN LED SINGLE FACE, SELF DIAGNOSTIC/SELF TEST UNIVERSAL MOUNT | CHLORIDE TPC-D-N-R-W-IC (TPECK WHERE REQUIRED) | LED | - | - | UNIVERSAL | 120 | - | ③ |
| X1 | EXIT SIGN / EMERGENCY LIGHT COMBO | CHLORIDE TPC-D-R-R-W-IC (TPECK WHERE REQUIRED) | LED | - | - | UNIVERSAL | 120 | - | ③ |
| X2 | ADA EXIT SIGN SINGLE FACE, WITH DYNAMIC HANDICAP SYMBOL & DIAGNOSTIC/SELF TEST | ISOLITE LP-CT-EM-R-S-WW-UN-SD | LED | - | - | UNIVERSAL | 120 | - | ③ |

LIGHT FIXTURE SCHEDULE NOTES:

- FURNISH WITH ALL REQUIRED MOUNTING HARDWARE, REMOTE POWER SUPPLY AND CONNECTING CABLE.
- FURNISH W/ BATTERY FOR 90 MINUTE EMERGENCY LIGHTING OPERATION.
- PROVIDE W/ FEATURES & ACCESSORIES NECESSARY FOR UNIVERSAL (TOP, BACK, & END) MOUNTING AND UNIVERSAL DIRECTIONAL ARROW KNOCKOUTS. ARROWS ON PLANS INDICATE DIRECTION OF CHEVRONS. SHADING INDICATES FIXTURE FACE. CHEVRON & LETTERING SHALL COMPLY W/ BUILDING CODE. COORDINATE NEED FOR CEILING MOUNT CANOPY PRIOR TO SUBMITTING. PROVIDE SELF-DIAGNOSTICS.
- COMPLY W/ BUILDING CODE. COORDINATE NEED FOR CEILING MOUNT CANOPY PRIOR TO SUBMITTING. PROVIDE SELF-DIAGNOSTICS.
- BUILD HOUSING ENCLOSURE TO PROTECT LUMINAIRE FROM INSULATION CONTACT. COORDINATE WITH ARCHITECTURAL STRUCTURE IN THE FIELD. ENCLOSURE SHALL BE BUILT IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS. SUPPLY 4 EXTRA LENSES, TURN OVER TO CLIENT.
- LUMINAIRE SHALL BE MOUNT AT 8"-0" FROM FINISH FLOOR TO THE BOTTOM OF THE LUMINAIRE UNLESS OTHERWISE SPECIFIED. COORDINATE MOUNTING LOCATION OF LUMINAIRE WITH EXPOSED STEEL BEAMS IN THE FIELD.
- ELECTRONIC BALLAST SHALL HAVE MAXIMUM TOTAL HARMONIC DISTORTION OF TEN PERCENT (10%)
- FURNISH ALL FIXTURES WITH REQUIRED LAMPS. FLUORESCENT LAMPS SHALL PASS THE FEDERAL TCLP TEST FOR MERCURY TOXICITY AND SHALL BE CLASSIFIED AS NON-HAZARDOUS WASTE.

ELECTRICAL LEGEND
 (NOT ALL SYMBOLS ARE USED)

| | |
|---|---|
| | SURFACE OR RECESSED ELECTRICAL PANEL, 120/208 VOLT. |
| | EXISTING ELECTRICAL PANEL |
| | PLYWOOD BACKBOARD. |
| | NON-FUSED DISCONNECT SWITCH. |
| | COMBINATION DISCONNECT/MOTOR STARTER. COORDINATE EXACT REQUIREMENTS WITH MOTOR FURNISHED. |
| | FUSED DISCONNECT SWITCH. |
| | JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS. |
| | JUNCTION BOX, TO SUIT SECURITY KEYPAD. INSTALL 3/4" C. W/ NYLON PULL STRING UP TO ACCESSIBLE CEILING. |
| | JUNCTION BOX, TO SUIT CO SENSOR. INSTALL 3/4" C. W/ NYLON PULL STRING UP TO ACCESSIBLE CEILING. |
| | CARD READER. INSTALL 3/4" C AND WIRING FROM ACCESS CONTROL PANEL. |
| | POWER SUPPLY TO SUIT DOOR STRIKE HARDWARE. |
| | MOTOR |
| | RECESSED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE. |
| | WALL MOUNTED LIGHT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE. |
| | TYPICAL RECESSED FLUORESCENT TROFFER; SUBLETTER INDICATES FIXTURE TYPE & SIZE. |
| | TYPICAL SURFACE, UNDERCABINET, OR RECESSED MOUNTED FLUORESCENT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE. |
| | TYPICAL PENDANT MOUNTED FLUORESCENT FIXTURE; SUBLETTER INDICATES FIXTURE TYPE. |
| | TYPICAL PENDANT MOUNTED FIXTURE WITH INTEGRAL BATTERY PACK FOR 90 MINUTE EMERGENCY LIGHTING. |
| | WALL MOUNTED FIXTURE; SUBLETTER INDICATES FIXTURE TYPE. |
| | CEILING MOUNTED EXIT SIGN. SHADING INDICATES DIRECTION OF FIXTURE FACE. ARROW INDICATES DIRECTION OF CHEVRON. PROVIDE UNSWITCHED POWER FROM AREA LIGHTING CIRCUIT. |
| | WALL MOUNTED EXIT SIGN. INSTALL AT 7'-7" AFF OR ON EXISTING LOCATION. |
| | COMBO EXIST SIGN / EMERGENCY LIGHT |
| | DOUBLE FACE EXIT SIGN. |
| | TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY FOR 90 MINUTE EMERGENCY LIGHTING. |
| | REMOTE EMERGENCY BATTERY. |
| | SINGLE-POLE SWITCH; MOUNT AT 48" AFF. |
| | 3-WAY SWITCH; MOUNT AT 48" AFF. |
| | SINGLE-POLE, MOTION SENSOR SWITCH; MOUNT AT 48" AFF. |
| | THERMO PLASTIC DISCONNECT TOGGLE SWITCH. |
| | DIMMING TOGGLE SWITCH. |
| | EMERGENCY POWER SHUT-OFF TOGGLE SWITCH WITH RED COVER. |
| | CEILING MOUNTED OCCUPANCY SENSOR. REFER TO SPECIFICATION 16500 FOR DETAILS. |
| | SPECIAL DEDICATED RECEPTACLE, COORDINATE NEMA TYPE WITH EQUIPMENT. |
| | DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER, UNLESS OTHERWISE SPECIFIED. |
| | DUPLEX GROUND FAULT RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED. |
| | QUAD RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED. |
| | QUAD RECEPTACLE; MOUNTED ABOVE COUNTER, UNLESS OTHERWISE SPECIFIED. |
| | CEILING MOUNTED POWER RECEPTACLE SHOWN ON POWER PLANS. |
| | DUPLEX GROUND FAULT RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED. |
| | RECEPTACLE WITH OUTDOOR RATED COVER PLATE. PROVIDE FLUSH MOUNTED BOX. |
| | FLOOR BOX OUTLET FOR POWER AND DATA |
| | COMPUTER NETWORK WORKSTATION PORT. MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. DX = NUMBER OF DATA OUTLETS. PROVIDE CAT 6 CABLE (4 PAIR UTP) ON EACH LOCATION. |
| | TELEPHONE JACK LOCATION. PROVIDE 4" SQUARE BOX, PHONE LINE, 1-GANG RING & 3/4" CONDUIT TO CEILING SPACE. |
| | VOICE/DATA OUTLET. 4" X 4" OUTLET BOX WITH A 1 GANG COVER 18 INCHES ABOVE FINISHED FLOOR OR AS NOTED WITH 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. VX/DX = NUMBER OF VOICE/DATA PORTS |
| | WIRELESS ACCESS POINT (CABLE AND JACK ONLY IN THIS SCOPE). |
| | TV COAXIAL JACK LOCATION. PROVIDE NEW JACK & COAXIAL CABLE TO HEADEND EQUIPMENT. COORDINATE REQUIREMENTS OF JACK & CABLE WITH OWNER & SYSTEM INSTALLER. |
| | GARAGE DOOR OPERATOR PUSH BUTTON. |
| | TIME CLOCK. |
| | PHOTOCELL |
| | MECHANICAL / PLUMBING PUMP |
| | DUAL BRANCH CIRCUIT HOMERUNS. |
| | BRANCH CIRCUIT HOMERUN. |
| | CONDUIT AND WIRE |
| | CONDUIT AND WIRE, SWITCHED |
| | LOW VOLTAGE WIRE, SWITCHED |
| REFER TO FIRE ALARM LEGEND IN THIS DRAWING FOR ADDITIONAL SYMBOLS | |

ABBREVIATION

| | |
|------|--------------------------|
| AFF | ABOVE FINISHED FLOOR |
| C | CEILING MOUNTED |
| CH | CABINET HEATER |
| CLH | CEILING MOUNTED HEATER |
| CR | CARD READER |
| D | DATA |
| ED | ELECTRICAL DRYER |
| EH | ELECTRICAL UNIT HEATER |
| EM | EMERGENCY |
| EPH | ELECTRIC WALL HEATER |
| G | GROUND FAULT INTERRUPTER |
| GUWH | GASS FIRED WATER HEATER |
| ER | EXISTING TO REMAIN |
| M | MICROWAVE |
| R | REFRIGERATOR |
| V | VOICE |
| W | WASHER |
| WP | WEATHERPROOF |

Renovations to:
 Old Woodbridge Fire Station
 4 Newton Road
 Woodbridge, Connecticut 06525

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| Revised | Description | Date | Revised By: |
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ELECTRICAL LEGEND, GENERAL NOTES, AND SCHEDULES

Date: **5.18.18**
 Scale: **AS NOTED**
 Drawn By: **JRP/PJE LC**
 Project Number: **11.147**