

FT. WALTON BEACH FIRE & RESCUE

FIRE TRAINING BUILDING

FT. WALTON BEACH • FLORIDA

THE REMOVAL OF AN ARCHITECT'S SEAL OR STAMP, AND/OR USE OF AN ARCHITECT'S PLANS, UNLESS OTHERWISE PROVIDED BY LAW, OR BY WRITTEN APPROVAL OF THE ARCHITECT, SHALL BE A VIOLATION OF LAW (R.S. 37-152)



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project
 2016

date
 June 23, 2017

set

TRAINING & GARAGE BUILDING

1. PROJECT NOTES

SCALE: NONE

SCOPE OF WORK:

- This project consists of a new metal building to be used for vehicle storage and office space.
- The plans as submitted include the architectural drawings for the building interior and exterior skin, the structural drawings will be by the metal building manufacturer.
- The plans do not include the following:
 - Sprinkler Plan - not required.
 - Landscape plans by others.
- The building is to be type V-B construction on the metal bldg. frame. Walls to be constructed with wood stud framing and finished with metal siding. Roof system is existing and to be repaired as required.
- As per FBC 2014 with supplements, this building lies within the 145 mph wind zone and shall be structurally designed accordingly.

ALARM SYSTEM NOTES:

- Alarm system to be submitted by owners, it is not part of this contract, but must meet the following:
 - Provide a fire alarm system in accordance with IOL: 7-6.
 - Visual alarm system required (ADA-AG), appliance shall be spaced in accordance with Figure 6-4.4.1 and Table 6-4.4.1(a) and (b), of the Life Safety Code.
- Fire Department notification shall be accompanied in accordance with 7-6.4.
- When central control equipment is located in areas that are not continuously occupied, automatic fire detectors shall be provided at each central equipment location to provide warning of fire at these locations.
- Occupant notification shall be by means of either voice or prerecorded message announcement initiated by the person in the constantly attended receiving station. Horns and bells are not allowed in assembly occupancies.

COMMERCIAL CONSTRUCTION NOTES:

GENERAL:

- AIA Document A201, General Conditions of the Contract for Construction, 1997 Edition shall be part of contract for any work included in these plans and specifications.
- All work shall be performed in accordance with all applicable national, state, and local codes and regulations.
- Contractor shall obtain all local and state permits as required before start of construction.
- The contractor shall provide any surveys, testing or engineering required to insure safe and complete construction.
- Contractor shall pass all inspections and approvals as required by local authorities during course of construction.
- Contractor shall verify all existing conditions before commencing work.
- Contractor shall verify all dimensions before construction begins. Any discrepancies shall be brought to the Architect's attention.
- Contractor shall ask for details whenever uncertain about methods of installation. Lack of details not requested shall not excuse improper installation and correction shall be responsibility of contractor.
- Contractor shall keep an accurate record of all changes marked in ink on the contract documents during construction, including location of all underground utilities. Contractor shall furnish owner and architect a copy of this record before acceptance is recorded.
- Contractor shall secure and obtain the certificate of occupancy from local authorities before final payment will be issued.
- These drawings have been drawn and checked to insure a reasonable and normally acceptable degree of accuracy. However, the contractor is responsible for checking all dimensions, details and requirements of these plans and specifications prior to start of work.
- The sheets in these construction documents are complementary to each other; what is called for by one shall be binding as if called for by all.

SITE:

- All existing asphalt paving and remaining trees to be removed as per Civil drawings, 2'-0" beyond the footprint of the new building. Verify with Architect prior to starting construction.
- Utility location and connections to be coordinated with Civil Engineer.

EGRESS:

- A doorway in a means of egress shall provide at least 32" clear (consider a 3'-0" door). Where a pair of doors is provided, at least one leaf shall comply.
- Hollow metal frames shall conform with Steel Door Institute recommended specifications, SDI-100.
- Doors shall be readily opened from the side of the exit travel at all times the building is occupied.
- Locks on doors in means of egress shall not require the use of a key, special device, or special knowledge to open in the direction of egress.
- All doors in a required means of egress may be provided with a latch or lock only if it is equipped with panic hardware.
- Exit discharge shall provide occupants safe access to a public way.
- Egress shall not be through a room subject to locking in the direction of egress.
- Provide landings outside exterior doors level with the floor.
- The floor shall be level on both sides of a door.
- Exterior hardware to be satin chrome finish, Baldwin, Schlage Plymouth or Knikset Standard, verify with Owner.
- Final hardware selection to be made by owner and Architect, contractor to submit information for selections.

DRAFT STOPS:

- Draft stops shall be installed as per Section 2305.2.3 of Florida Building Code 2014.
- Provide signage above ceiling line 15" from end walls and 30" apart on all smoke or fire rated walls, note to read:
 - * Fire and/or smoke barrier - protect all openings*
- Draft stop attics into areas not exceeding 3000 sq. ft. (if applicable).

INSULATION:

- Insulation in the walls to be R-19 batt insul., Floor to be R-19 foam insul., & the rafters are to be R-30 foam insulation.
 - Insulation and insulation assemblies shall meet the requirements of Section 710, FBC 2014.
 - Concealed insulation shall have a flame spread of 0-25 and a smoke development factor of 0-450, in accordance with Section 710, FBC 2014.
- Exposed insulation shall have a flame spread of 0-25 and a smoke development factor of 0-450.

GLAZING:

- Provide safety glazing in hazardous locations as defined by Section 2405.2, Florida Building Code.
- Window Wall Recommendations published by AAMA in the "Metal Curtain Wall, Window Storefront, and Entrance Guide Specifications Manual" applies to this project.

CORRIDOR:

- The minimum corridor width shall be as determined in Section 1005.1, FBC 2014, but shall not be less than 44 inches.
- Where corridors must be separated from use areas, a 1 hour fire wall and self-closing 45 minute labeled door/frame assemblies are required, refer to plan for locations and partition types for U. file number and details.

LIFE SAFETY:

- Enclose or otherwise protect penetrations if systems are serving more than one floor or fire area to maintain the fire integrity required for vertical openings, IOL:6-3.2.
- Separate areas of use of the building (between the garage area and office) by one hour fire resistant construction using self-closing 45 minute labeled doors and frames, IOL:26-3.2.
- Protect vertical openings in accordance with IOL:6-2-4.

FIRE EXTINGUISHER:

- Fire extinguisher and cabinet shall comply with applicable UL Standards and one labeled by UL. Multi-purpose Dry Chemical Type (4A-60BC-Fla), cabinet to be semi-recessed type with bubble type door.
- Provide hand-operated fire extinguishers in accordance with NFPA-10.
- All work and inspections of fire alarm, fire suppression, automatic sprinkler and fire extinguishing systems or portable fire extinguishers shall be performed by a State of Louisiana certified agent.
- Travel distance to a fire extinguisher shall not exceed 75 feet.
- Top of fire extinguisher, having a gross weight less than 40 lbs., shall be not more than 5 feet above the floor; 3-1/2 feet if gross weight 40 lbs or greater.

MISCELLANEOUS:

- Fireblocking must be installed in wood framed construction as outlined in Section 2305.1.4 of Florida Building Code.
- Fire caulking to be FIRESEAL 3500, single part Acrylic Latex Intumescent Fire Stop Sealant, or approved equal.

COMMERCIAL FRAMING NOTES:

GENERAL:

- As per Section 2303.6, FBC 2014 nails and staples shall conform to requirements of ASTM F 1667.
- Fasteners for wood framing shall be as per Section 2304.9, FBC 2014.
- The framing of exterior and interior walls shall be in accordance with the provisions specified in Section 2308, FBC 2014, unless otherwise noted.
- Structural roof sheathing shall be designed in accordance with the general provisions of Section 2304.12, FBC 2014.
- Wood shear walls shall be designed in accordance with the general provisions of Section 2305.3 FBC 2014.
- All dimensions should be read and calculated and never scaled.
- All wall dimensions are taken to the face edge of the stud, unless noted otherwise.
- All exterior and load bearing walls shall be 2x6 wood studs at 16" o.c., with 2x4 wood studs at 16" o.c. at interior walls unless otherwise noted.
- All wood framing to be #2 Southern Yellow Pine, kiln dried.
- All exposed framing to be treated.
- All sole plates to be pressure treated lumber.
- Sill plate to be treated #2 SYP, and anchored to floor framing w/ 5/8" dia. anchor thru bolts as called for in Simpson Strong Tie System. And nailed in between ties.
- 1/2" continuous bead caulking shall be applied under all exterior plates.
- 5/8" drywall to be used on all walls and ceilings.
- Each corner to have minimum of three studs.
- Provide 5/8" green board drywall in wet areas.
- Headers shall be provided over each opening and shall be designed in accordance with the general provisions of Section 2308.9, FBC 2014, min. 2-2x10, unless otherwise noted.
- Gypsum drywall shall be screwed not nailed to framing shall be in accordance with the general provisions of Section 2306.4.5.1 FBC 2014.

GENERAL HANDICAP NOTES:

- Provide handicapped accessibility in accordance with ANSI A117.1 (1980), and ADA-AG (July 2014). This project shall include, but not be limited to the following requirements:

EGRESS:

- The accessible route shall, to the maximum extent feasible, coincide with the route for the general public.
- Provide signage at accessible entrance(s) and directional signage at all accessible entrances.
- Ground and floor surfaces shall be firm, stable and slip-resistant.
- A doorway in means of egress shall provide at least 32" clear (consider a 3'-0" door). Where a pair of doors is provided, at least one leaf shall comply.

- Thresholds shall comply with requirements of this section 4.5.2 regarding changes in level. (maximum threshold height to be 1/2" and beveled if over 1/4", 3/4" at exterior sliding doors).
- Provide landing outside exterior doors level with the floor.
- The floor shall be level on both sides of a door.
- Handles, pulls, latches, and other operating devices shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate. Lever-operated mechanisms are acceptable designs.

- Provide maneuvering clearance at doors in accordance with figure 45(a)(b).
- Handrails required on both sides of all stairs, height to be 34" - 38", measured from stair nosing, 1-1/2" clear space between rail and wall.
- Ramps that exceed 6" in rise, or 12" in run, shall have handrails on both sides. Height to be 34" to 38" above ramp surface, and extend at least 12" beyond top and bottom of ramp, parallel to ramp surface.

MISCELLANEOUS:

- Provide accessible service/information counter(s) in accordance with section 7.2(2).
- Accessible counter height shall be from 28" to 34" above the finished floor at reception counter.
- Employee work areas shall be designed and constructed as that individuals with disabilities can approach, enter and exit.
- Minimum clear headroom to be 84".
- Objects projecting from wall with their leading edges between 21" and 80" above the finished floor shall protrude no more than 4" into the walls or corridors.
- Openings for areas less than 24" in depth shall have clear opening of 20" min.

SIGNAGE:

- Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door mounting height shall be 60" above finished floor to the centerline of the sign.
- All interior signage to be in letter and Braille form, style, color, design and location to be supplied by Architect, one size for each door to be supplied, size to be 4" x 4" maximum.
- Letters and numbers on signs shall have a width to height ratio between 3:5 and 1:1, and a stroke - width - to - height ratio between 1:5 and 1:10.
- Letters and numerals shall be raised 1/32" and shall be accompanied by grade 2 Braille. Raised character height: 5/8" minimum, 2" high maximum.
- The characters and background of signs shall be eggshell, matte or other non-gloss finish. Character and symbols shall contrast with their background.
- Provide low level mounted exit signage in accordance with 4.30.1, 4.30.4, 4.30.5 and 4.30.6 (raised character, letter size, mounting) at all required exits.

MECHANICAL & ELECTRICAL GENERAL NOTES:

- All materials shall be new except where otherwise noted and shall conform with the standards of Underwriter's Laboratory in every case where such a standard has been established for the particular type of material in question.
- The installation shall comply with all laws applying to work in effect with the regulations of the NEC. The contractor shall obtain and pay all necessary permits, and after completion, furnish owner certifications of final inspections and approval as issued by the inspection department of the County. The contractor shall be responsible for obtaining all necessary certificates of inspection, both at rough-in and completion.
- All tests shall be made in accordance with latest standards of IPCEA and the NEC. All tests shall be made in the presence of the owner or his representative.
- The contractor is urged to visit and to examine the job site in order to become more familiar with all existing conditions pertinent to work to be performed thereon. No additional compensation will be allowed for failure to be so informed.

MECHANICAL NOTES:

GENERAL:

- Refer to mechanical plans for full design, notes, schedules, and details.
- All HVAC systems shall be constructed in accordance with IOL: 4.2, Life Safety Code.
- Utilities shall comply with the provisions of Section 9.1, Life Safety Code 2014.
- Execute all work according to all codes and ordinances. Pay for all permits and provide for inspections.

FIRE SAFETY:

- Install smoke detectors to automatically stop the fan in HVAC duct systems over 2000 cfm in accordance with NFPA 90A: 4-4.2(1) (2006). As per 90A-5.1. Duct detectors shall be connected to building alarm system.
- Provide manual reset firestat in return air stream of A/C system, setting not to exceed 136 degree F.

ELECTRICAL NOTES:

GENERAL:

- Refer to Electrical plans for full design, notes, schedules, and details.
- Contractor to make necessary arrangements with the local power company for temporary power and permanent meter.
- Contractor shall provide a source of construction electrical power.
- Contractor shall confirm with the telephone company that the service location, size, etc. meets their requirements and with their approval.
- All electrical work shall have a one year warranty.
- All electrical work shall be performed by a licensed electrician.
- Electrical work shall comply with NFPA 70 (2014), National Electrical Code, for all proposed electrical work in this submittal.

PLUMBING NOTES:

GENERAL:

- Refer to Plumbing plans for full design, notes, schedules, and details.
- All Plumbing work and material shall conform to the latest adopted Code in effect in the location of the Project.

METAL BUILDING SYSTEMS

GENERAL:

- Metal Building Systems to include:
 - Structural steel framing system.
 - Metal roof system.
 - Metal wall panels.
 - Roof and wall insulation.
- Metal building to meet American Institute of Steel Construction (AISC) standards, American Iron and Steel Institute (AISI) standards, American Welding Society (AWS) standards, Association for Iron & Steel Technology (AISE) ASTM standards and testing standards.
- Metal Building System to meet all current FBC 2014 codes and standards.
- All submittals and shop drawings to have a certificate of design and manufacturing conformance, prepared and sealed by a Professional Engineer.
- Provide all Manufacturer's warranties and dealer's certifications.
- Metal building manufacturer shall provide a written weather-tightness warranty for a max. of 25 years against leaks in standing seam roof panels.

MANUFACTURER:

Butler Manufacturing, Star Building Systems, or approved equal.

BUILDING:

- Structure to be designed to meet all the requirements of the FBC 2014 and meet the wind load of 145 mph designed for a B zone.
- Wind Pressure Coefficients and the design pressures shall be applied in accordance with the FBC 2014.
- Roof system to be designed to meet a live load to be 25 lb/sf.

STRUCTURAL STEEL FRAMING SYSTEM:

- Design of Structural System: Clear or multi-span rigid frame with straight columns and roof beams with gable roof.
- Roof slope to be 1.5 inches in 12 inches.
- Structural Mill Sections or Welded-up Plate Sections: Designed in accordance w/ AISC.
- Cold-formed Steel Structural members to be designed in accordance w/ AISI n American specifications.
- Structural System: Designed in accordance w/ FBC 2014 and related county requirements.
- Primary Framing:
 - Rigid Frames: Welded-up plate section columns & roof beams, complete w/ necessary splice plates for bolted field assembly.
 - Endwall Structural members: Cold-formed channel members designed in accordance w/ AISI n, American Specifications.
- Secondary Structural Members:
 - Purlins & truss purlins
 - Eave Members
 - Girts
 - Bracing
- Welding: Welding procedures, operator qualifications, 4 quality standards as per AWS D11 Structural Welding Code.
- Painting of Structural Steel Framing System: All steel members to be clean in accordance w/ SSPC-SP2 and factory primed w/ manufacturer's requirements.
- Supply all materials, fasteners, and end caps necessary to complete to job as required by the manufacturer.

METAL ROOF SYSTEM:

- Metal Roof System to be Butler Mfr "MR24" roof panel or approved equal.
- Panel Material & Finish to be 24 gauge galvanized steel coated both sides w/ layer of acrylic-coated Galvalume aluminum-zinc alloy applied by continuous hot-dip method. Apply clear acrylic film for additional protection.
- Installation of metal roof panel as per manufacturer's recommendations.
- Supply all materials, fasteners, and end caps necessary to complete to job as required by the manufacturer.

METAL WALL PANELS:

- Metal wall panels to be Butler Mfr "Fluted Stykball II" wall panel or approved equal.
- Wall panel design in accordance w/ AISI n American Specifications for the design of Cold-Formed Steel Structural Members.
- Wall Panels:
 - 16 inches wide w/ interlocking joints.
 - 24 gauge galvanized steel, ASTM A653, G40.
 - Embossed finish.
 - Panel exterior: Pre-finished w/ Butler-cote finish system, full-strength, 70% "Kynar 500" or "Tylar 5000" fluoropolymer (PVDF) coating.
 - PVDF coating warranty to be 25 years standard warranty from the b metal building MFR.
- Color to be selected by the Owner from the standard colors by the Mfr.
- Supply all materials, fasteners, and end caps necessary to complete to job as required by the manufacturer.

ROOF & WALL INSULATION:

- Laminated Fiberglass: Owens-Corning Fiberglass, NAIMA 202 "Certified R" metal bldg. Insul.
- Back-Fill Insulation: Owens-Corning Fiberglass unfaced/Pink Mt. Bldg. Insulation Plus".
- Roof Insulation: Nominal thickness - 8 inches, w/ R-Value = 30.
- Wall Insulation: Nominal thickness 5 1/2 inches, w/ R-Value 14.
- MR-24 roof system height 8" lower layer: R-19 (6") Upper layer: R-11 (3.5") = total R-30.
- Install all insulation in accordance with manufacturer's recommendations and requirements.

SITE NOTES:

- CONTRACTOR TO MARK LOCATION OF NEW BUILDING AS PER CIVIL DRAWINGS.
- REMOVE ALL ASPHALT AND SUB-BASE A DISTANCE OF 3'-0" AROUND THE FOOTPRINT OF THE NEW BUILDING. ASPHALT CUT OUT TO BE APPROXIMATELY 46'-0" X 106'-0".
- PROVIDE COMPACTED SAND FILL AS REQUIRED FOR FOUNDATION OF BUILDING.

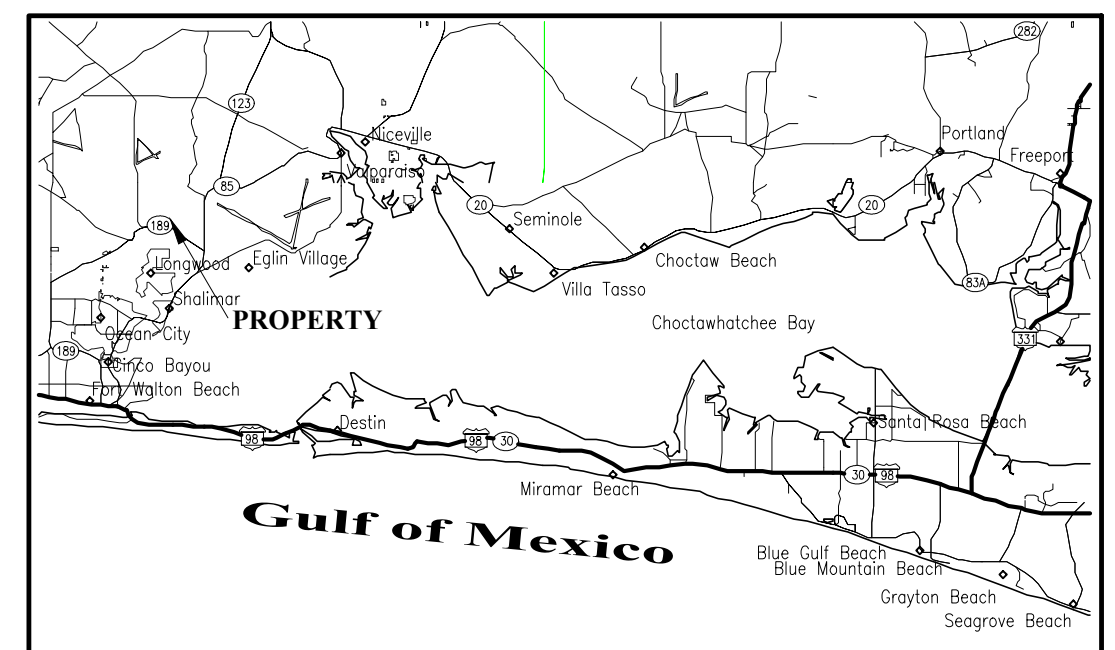
2. INDEX

SCALE: NONE

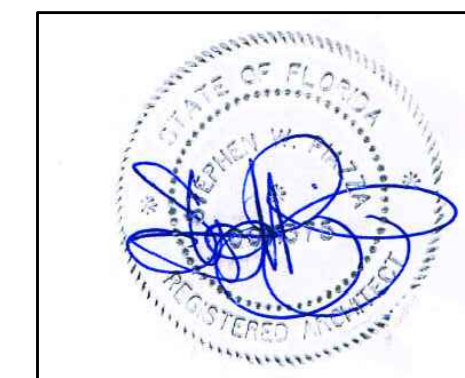
COVER SHEET	
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3. VICINITY MAP

SCALE: NONE



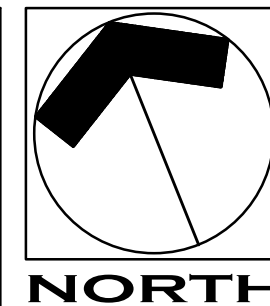
VICINITY MAP
NOT TO SCALE



project: 2016
date: 6/23/17
revisions: REV 1

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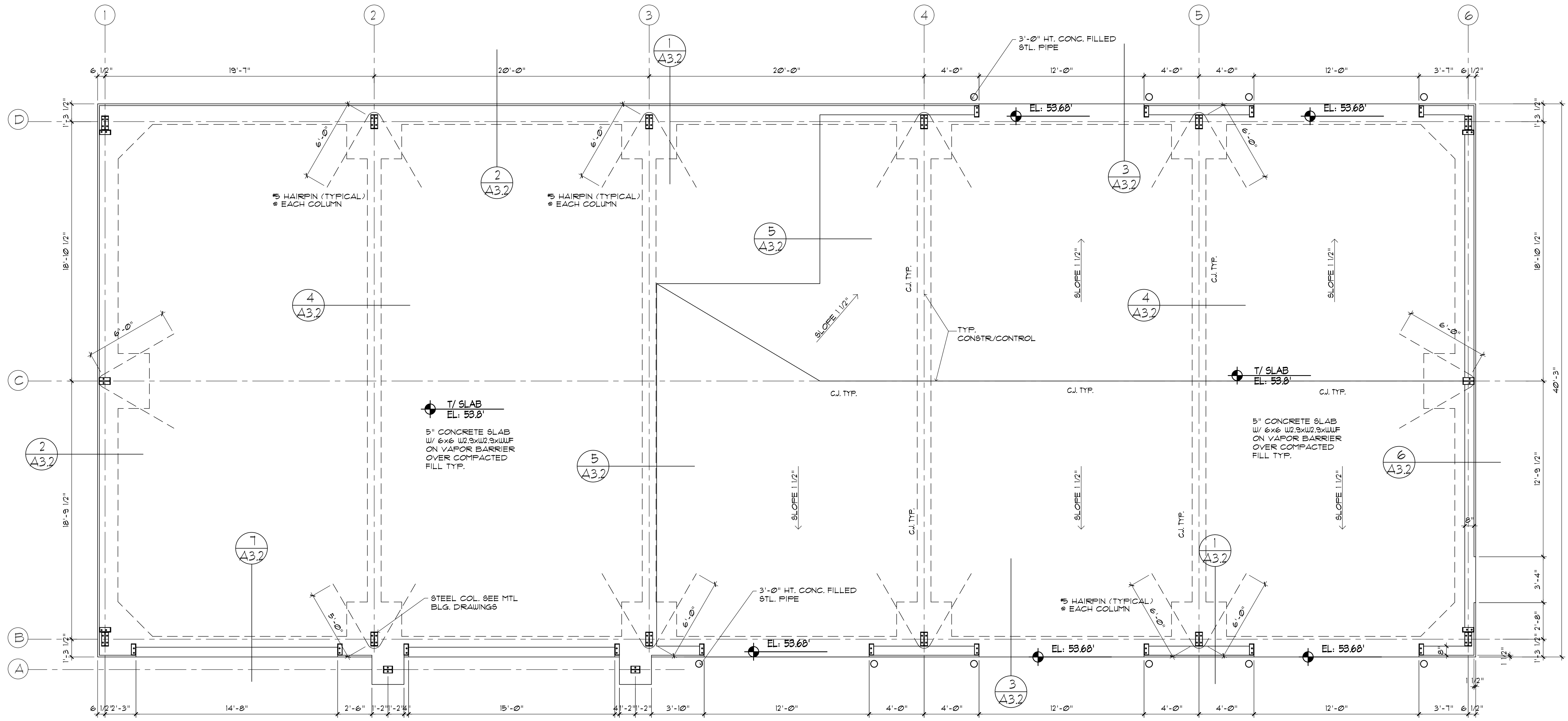


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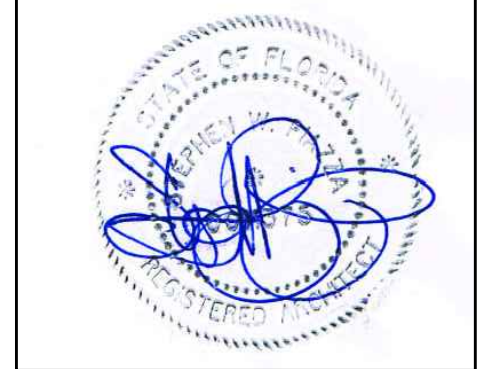
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1. FOUNDATION PLAN

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

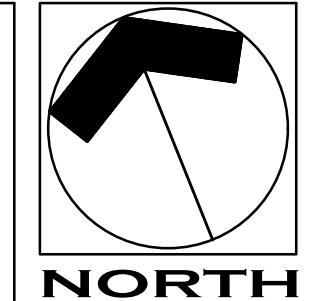
- SITE NOTES:
1. CONTRACTOR TO MARK LOCATION OF NEW BUILDING AS PER CIVIL DRAWING.
 2. REMOVE ALL ASPHALT AND SUB-BASE A DISTANCE OF 3'-0" AROUND THE FOOTPRINT OF THE NEW BUILDING. ASPHALT CUT OUT TO BE APPROXIMATELY 46'-0" X 106'-0".
 3. PROVIDE COMPACTED SAND FILL AS REQUIRED FOR FOUNDATION OF BUILDING.



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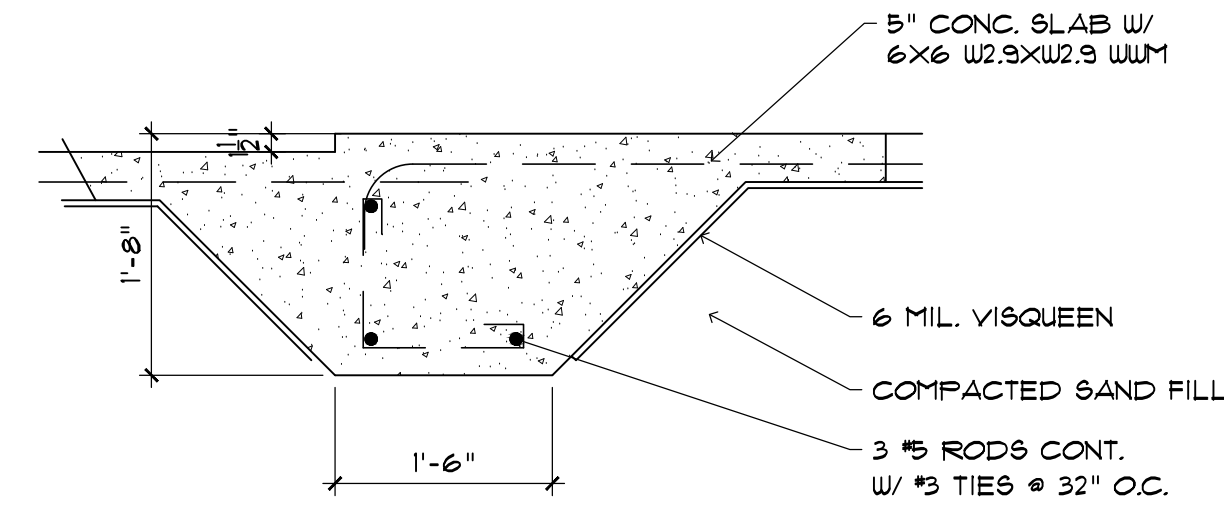
GENERAL ENGINEERING NOTES:

I. DESIGN CRITERIA:

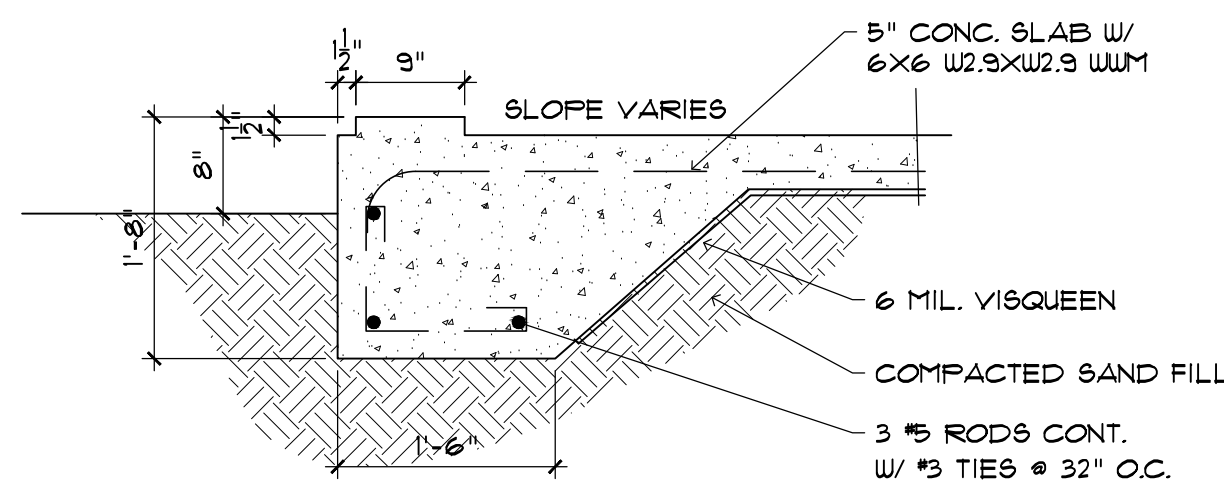
- A. **CODES:**
 FLORIDA BUILDING CODE, 2014; 5th EDITION
 AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (TIMBER CONSTRUCTION MANUAL, LATEST EDITION).
 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (A.C.I. 318).
 BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (A.C.I. 531).
 - B. **DESIGN LIVE LOADS:**
 ROOF..... 20 PSF.
 FLOORS..... 40 PSF.
 LATERAL FORCES..... 146 MPH.
 - C. **MINIMUM SOIL BEARING PRESSURE: CONT. WALL FOOTING:**
 2000 PSF.
- 2. CONCRETE SPECIFICATIONS:**
- A. ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS.
 - B. CONCRETE OPERATIONS SHALL COMPLY WITH A.C.I. STANDARDS.
 - C. CONCRETE COMPRESSIVE STRENGTH: 3000 PSI MINIMUM AT 28 DAYS.
 - D. REINFORCING BARS: ASTM A615 GRADE 60.
 - E. WELDED WIRE FABRIC (W.W.F.): ASTM A185
 - F. REINFORCING BAR PLACING ACCESSORIES: IN ACCORDANCE WITH CRSI SPECIFICATIONS.
 - G. MINIMUM CONCRETE COVERAGE OF REINFORCEMENT: FOOTINGS..... 3" BOTTOM AND SIDE.
 - H. EARTH SUPPORTED SLAB: 4 INCHES THICK REINFORCED WITH 66-W1.4 X W1.4 W.W.F. THE SLAB AND THE CONCRETE PERIMETER BEAM SHALL BE PLACED OVER POLYETHYLENE VAPOR BARRIER OF NOT LESS THAN 0.006 INCH NOMINAL THICKNESS.
 - I. ANCHOR BOLTS SHALL CONFORM TO ASTM A36 AND SHALL BE SEE METAL BUILDING MFR. FOR DIA. & ENBED DEPTH IN CONCRETE.
 - J. DETAIL REINFORCING IN ACCORDANCE TO A.C.I. 315. REINFORCING SHALL NOT BE WELDED, EXCEPT AS SHOWN WHERE ASTM A706 BARS ARE USED.

FOUNDATION NOTES:

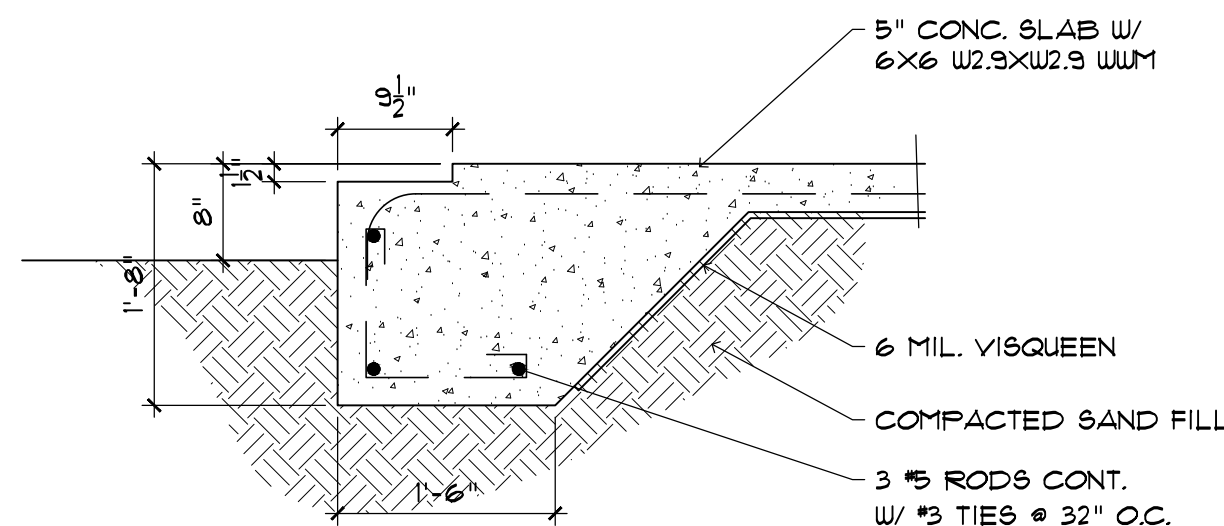
- 1. All concrete to be 3,000 PSI at 28 days.
- 2. Wire mesh reinforcing shall be electrically welded steel wire fabric - (min. overlap of 12").
- 3. Reinforcing bars shall be as shown on plans.
- 4. Slab shall be light broom finish at exterior slabs, provide positive gentle slope away from building at all exterior slabs.
- 5. Concrete shall not be poured when the temperature is below 32 degrees F or shall reach that point within 12 hours.
- 6. Contractor to provide an owner approved, bonded termite treatment, including materials and methods, under and around entire structure, include a 1 year warranty.
- 7. Support slab reinf. steel on chairs with plates @ 24" o.c. grid to maintain proper location in slab.
- 8. Remove all organic soil, roots, and debris from under the building area.
- 9. All grade beams to be placed on undisturbed, dry natural ground or on fill compacted to 95% of maximum density - ASTM D 698.



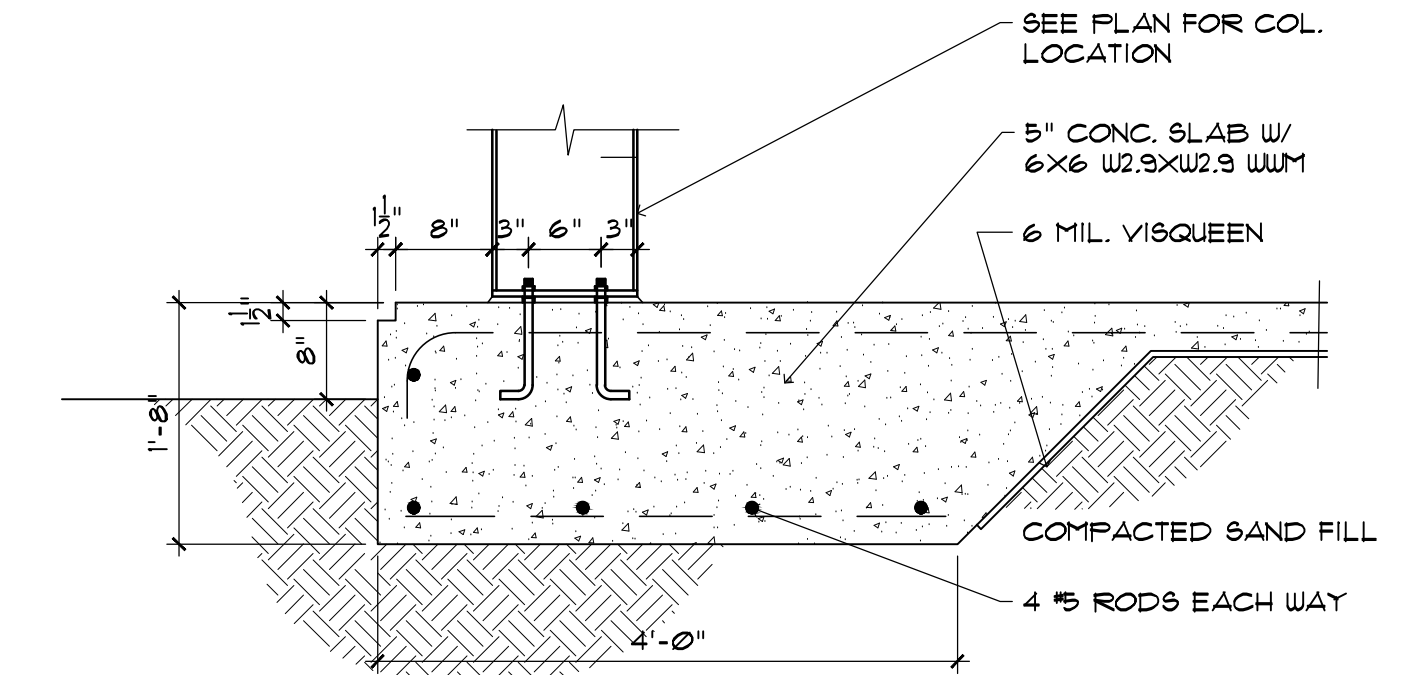
5. FOOTING DETAIL
SCALE: 3/4" = 1'-0"



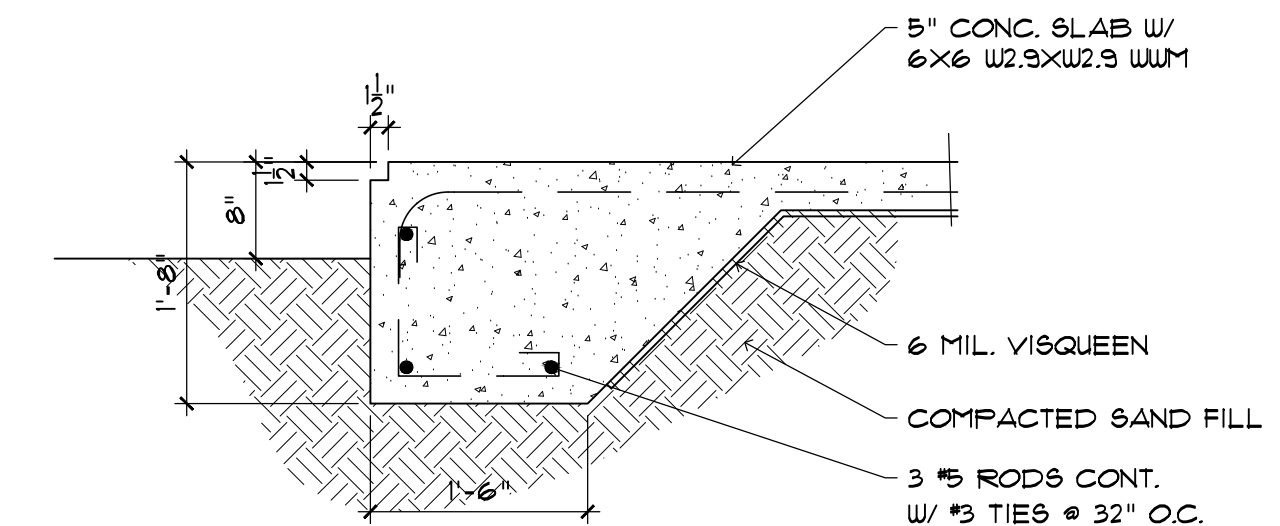
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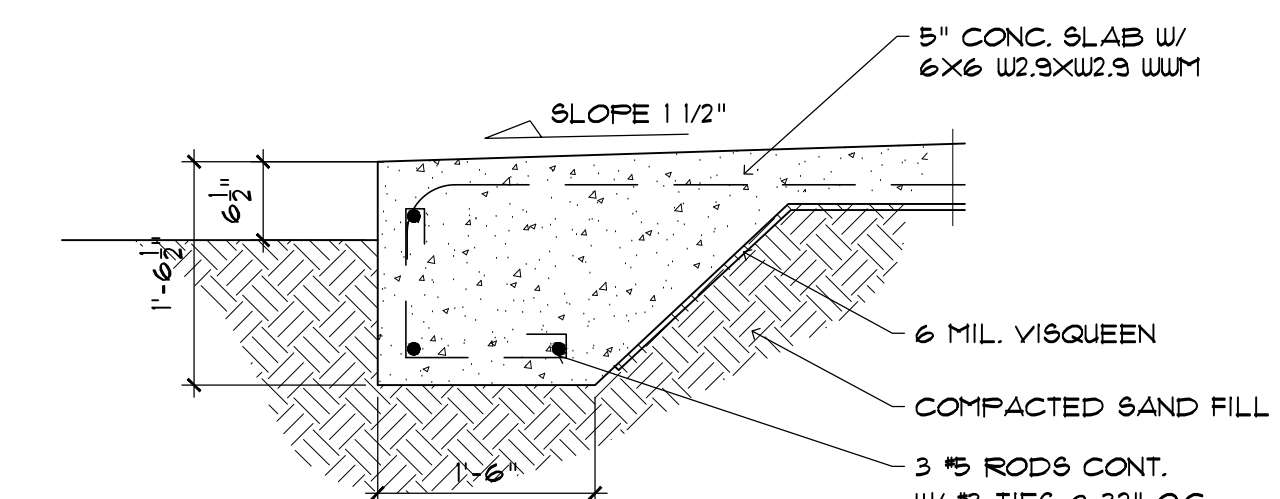
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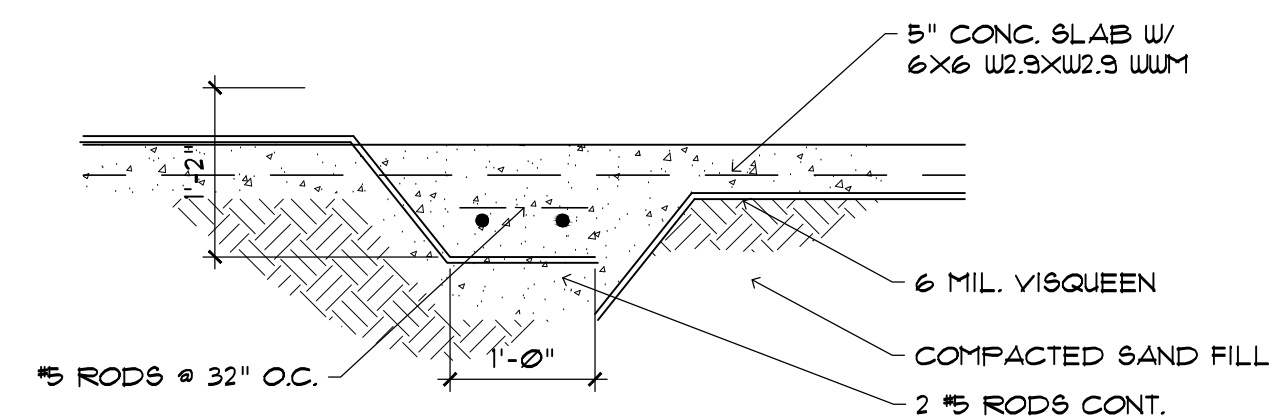
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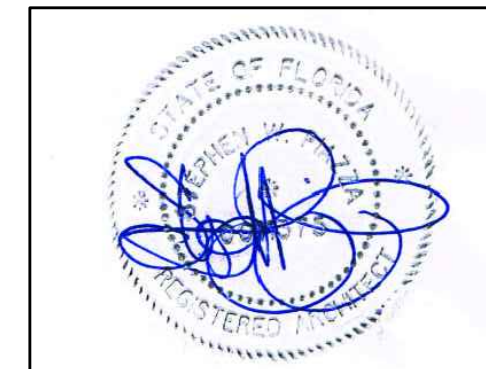
2. FOOTING DETAIL
SCALE: 3/4" = 1'-0"



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



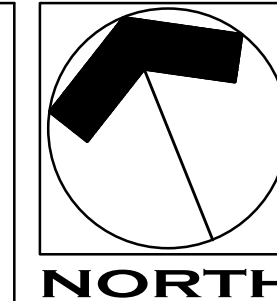
4. FOOTING DETAIL
SCALE: 3/4" = 1'-0"



TRAINING & GARAGE BUILDING

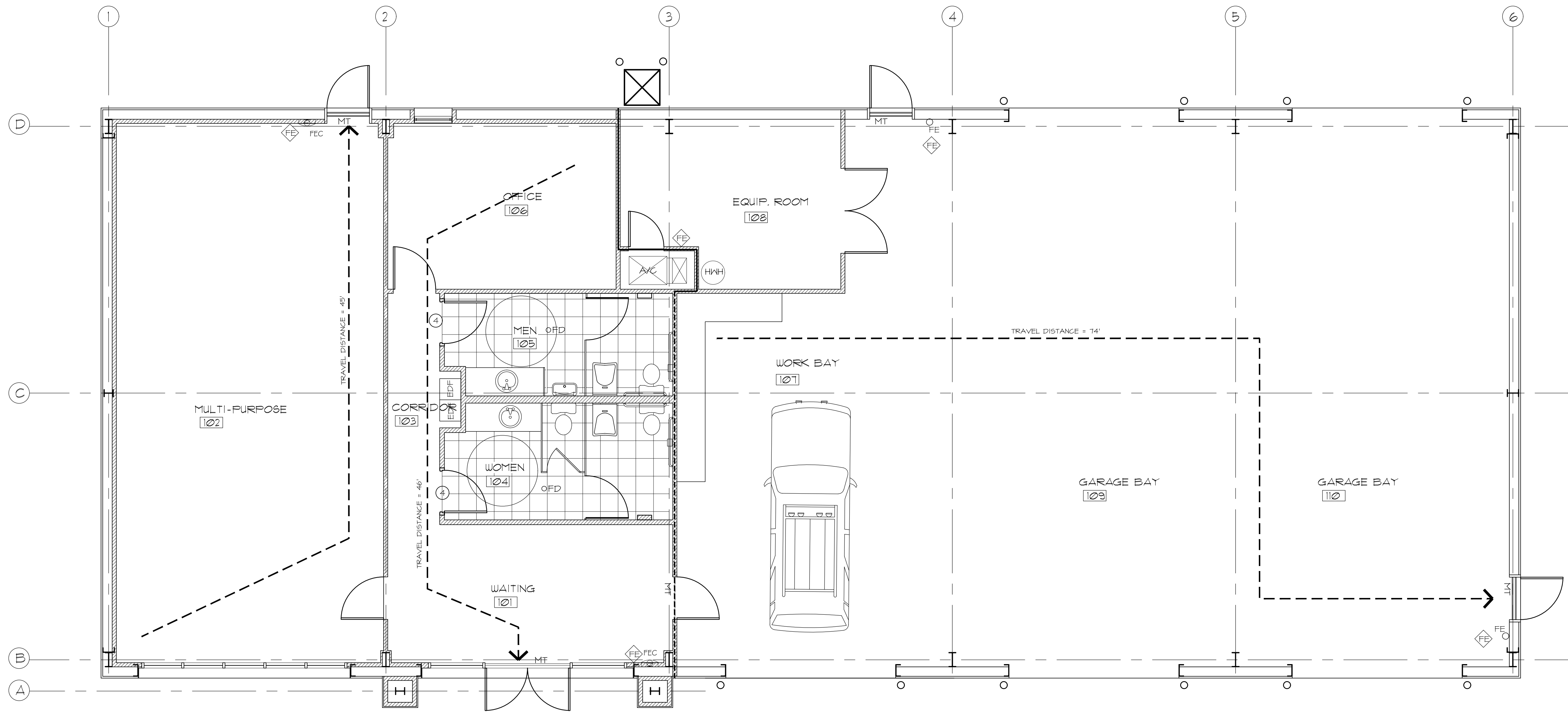
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FT. WALTON BEACH FIRE & RESCUE
 FIRE TRAINING BUILDING
 FT. WALTON BEACH • FLORIDA

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N.F.P.A. 101 - 2014 EDITION

OCCUPANCY:
 MIXED OCCUPANCY, MOST RESTRICTIVE APPLIES
 BUSINESS, GROUP "B"
 AUTOMOTIVE, GROUP "F-1"

CONSTRUCTION TYPE:
 TYPE VB, NON-COMBUSTIBLE (FBC 2014)

OCCUPANT LOAD:
 BUSINESS
 TRAINING & OFFICE AREA 1/100 GROSS AREA,
 1/100 X 800SF = 8 PEOPLE
 TRAINING ROOM 1/15 X 800SF = 53 PEOPLE

AUTOMOTIVE & GARAGE
 PARKING GARAGE & STORAGE 1/200 GROSS AREA
 1/200 X 2430SF = 12 PEOPLE
 TOTAL = 73 PEOPLE

MINIMUM NUMBER OF EXITS:
 PER SECTION 1021
 4 REQUIRED
 4 PROVIDED

DEAD END CORRIDOR:
 PER SECTION 1018.4
 20'-0" - NON SPRINKLERED

TRAVEL DISTANCE TO EXIT:
 PER SECTION 1016 TABLE 1016.1
 200'-0" - NON-SPRINKLERED

EXIT CAPACITY:
 PER SECTION 1027
 73 PEOPLE X .3 = 21.9" REQUIRED
 144" PROVIDED

EXIT WIDTH:
 MINIMUM WIDTH REQUIRED = 44"
 MINIMUM WIDTH PROVIDED = 44"

SEPERATION and PROTECTION FROM HAZARDS:

STORAGE ROOM
 REQUIRES 1HR SEPERATION
 SEPERATION BETWEEN OCCUPANCY
 BETWEEN Group "B" & "F"
 REQUIRES 1HR SEPERATION

ILLUMINATION OF MEANS OF EGRESS:
 PER SECTION 1006 FBC 2014

EMERGENCY LIGHTING:
 PER SECTION 1006.2

INTERIOR FINISHES WALL AND CEILING:
 PER SECTION 102.2
 EXIT AND EXIT CORRIDORS: CLASS A or B
 OTHER AREAS: CLASS A, B or C

INTERIOR FINISHES AT FLOOR:
 PER SECTION 102.2
 EXITS - CLASS 1 OR 2
 CORRIDORS AND LOBBIES - CLASS 1 OR 2

DETECTION, ALARM AND COMMUNICATIONS SYSTEMS:
 ALARM SYSTEM IS NOT REQUIRED AS PER FBC 2010, SECTION 907

EXTINGUISHMENT REQUIREMENTS:
 AUTOMATIC SPRINKLER SYSTEM IS
 SECTION 909 NOT REQUIRED PER FBC 2010
 FIRE EXTINGUISHER CABINETS ARE REQUIRED

DOOR THRESHOLDS
 THRESHOLDS TO BE AS PER FBGA 404.25

1. LIFE SAFETY PLAN

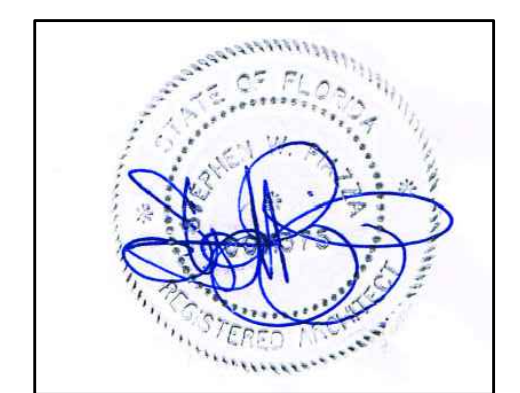
SCALE : 1/8" = 1'-0"

RATED WALLS

RE: PARTITION TYPES

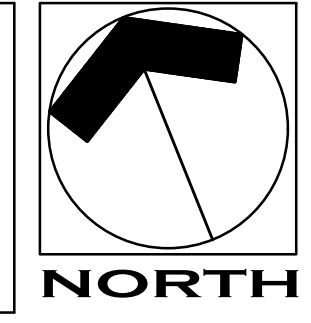
1 HOUR RATED WALL

FIRE EXTINGUISHER



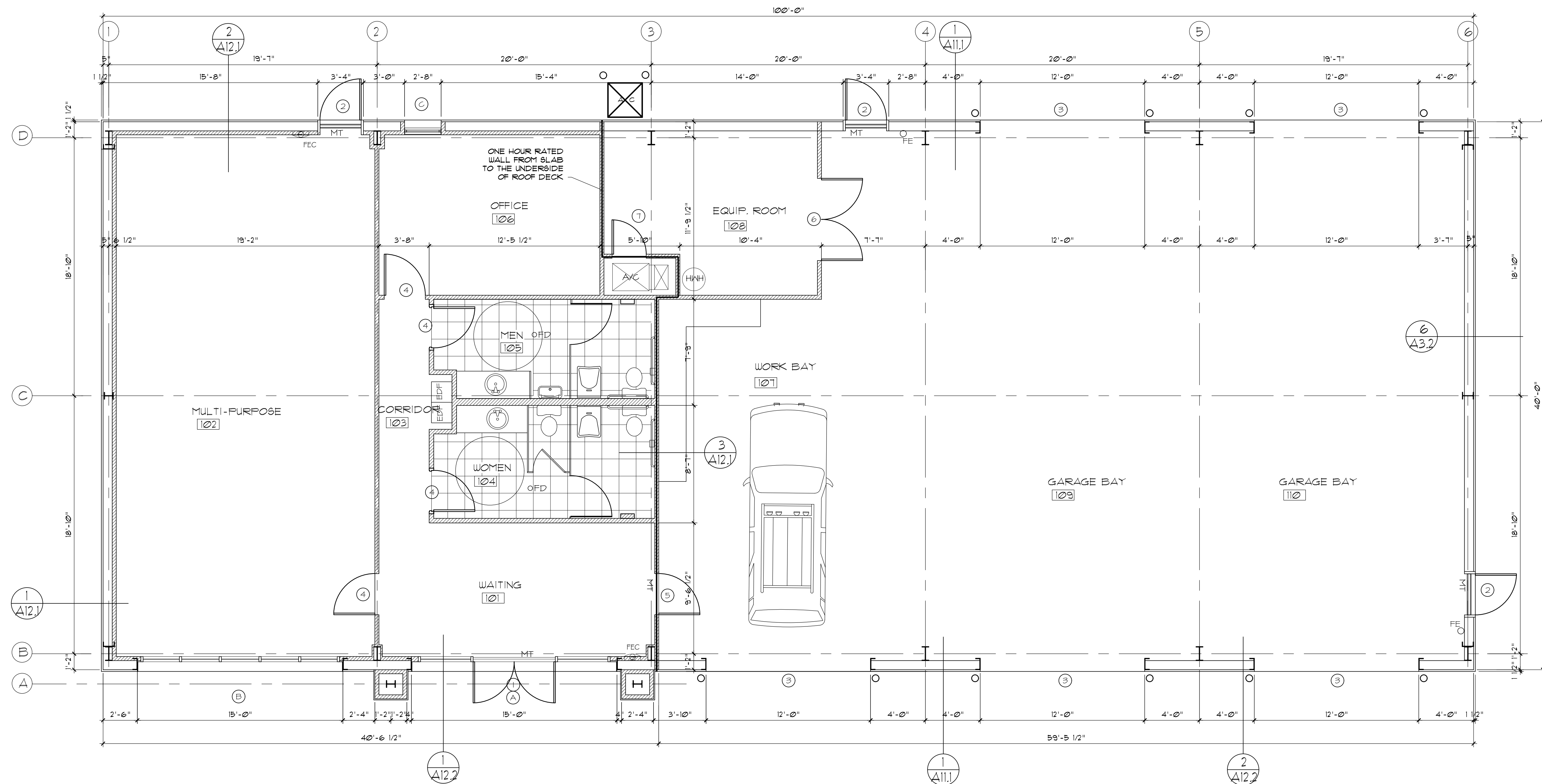
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1. FLOOR PLAN

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

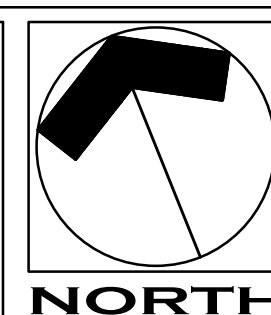
TOTAL OFFICE & TRAINING AREA	=	1,600 SF
AUTOMOTIVE & GARAGE	=	2,430 SF
TOTAL AREA	=	4,030 SF



TRAINING & GARAGE BUILDING

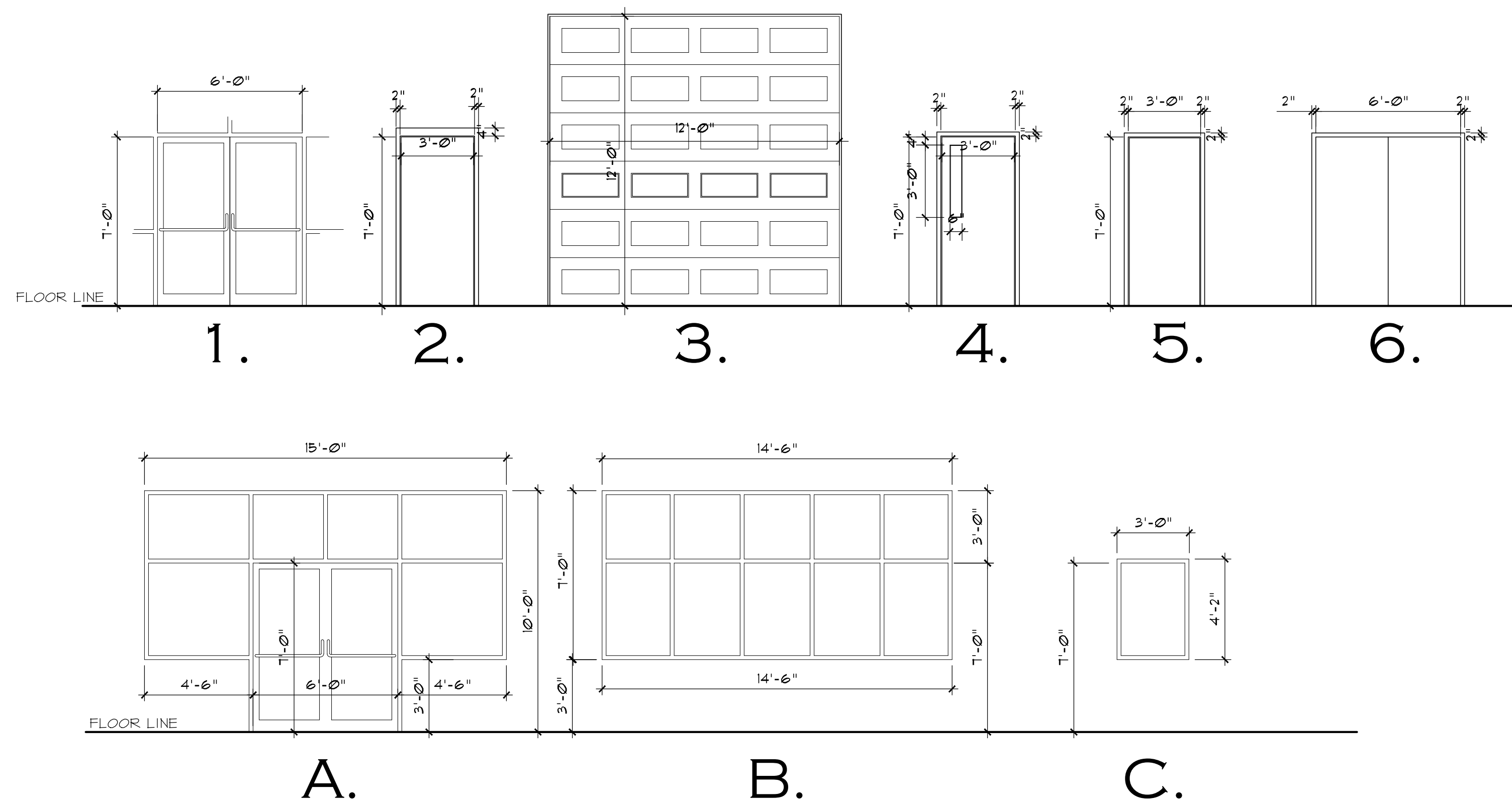
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DOOR/WINDOW ELEVATIONS

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

PROJECT NOTES

SCALE: NONE

GENERAL NOTES:

- All work shall be performed in accordance with all applicable national, state & local codes & regulations.
- All dimensions should be read and calculated and never scaled.
- Contractor shall verify all existing conditions before commencing work.
- Contractor shall verify all dimensions before construction begins. Any discrepancies shall be brought to Architects attention.
- Contractor shall pass all inspections and approvals as required by local authorities during course of const.
- Contractor shall obtain all local and state permits as required before start of construction.
- Contractor shall secure and obtain the certificate of occupancy from local authorities before final payment
- Contractor shall ask for details whenever uncertain about methods of installation. Lack of details not requested shall not excuse improper installation and correction shall be responsibility of contractor.
- The contractor shall provide any surveys, testing or engineering required to insure safe and complete const.
- Provide all blocking & draft stops as per Florida Building Code 2010.
 - Provide safety glazing in hazardous locations as defined by Section 2103.2, Florida Building Code. Impact resistant glazing required by Florida Building Code.
 - Insulation and insulation assemblies shall meet the requirements of the Florida Building Code 2010,
 - Concealed insulation shall have a flame spread of 0-75 and a smoke development factor of 0-450.
 - The new construction shall meet FBC 2014 requirements and meet a 146 MPH wind load as per ASCE 7-05.

1. DOOR SCHEDULE

SCALE: NONE

MARK	DESCRIPTION	ELEV.	FRAME	GLAZING	DESIGN PRESSURE		REMARKS		
					ZONE 4	ZONE 5			
1.	(2) 3'-0" X 7'-0" X 1-3/4" ENTRY DR. IN UNIT "A"	1A5.1	ALUM	NSUL SAFETY	32.2	-35.4	37.9	-50.1	IN WINDOW UNIT "A"
2.	3'-0" X 7'-0" EXTERIOR METAL DOOR	2A5.1	METAL	-NONE-	39.4	-41.2	36.2	-44.8	
3.	12'-0" X 12'-8" MTL GARAGE DOOR	3A5.1	METAL	NSUL SAFETY	28.1	-32.1			GARAGE DOOR
4.	3'-0" X 7'-0" X 1-3/8" INT WD FLUSH PANEL DOOR	4A5.1	METAL	-NONE-					
5.	3'-0" X 7'-0" X 1-3/8" RATED FLUSH PANEL DOOR	5A5.1	METAL	-NONE-					45 MIN. RATED
6.	(2) 3'-0" X 7'-0" X 1-3/8" EXT FLUSH PANEL DOOR	6A5.1	METAL	-NONE-					
7.	2'-6" X 7'-0" X 1-3/8" INT FLUSH PANEL DOOR	7A5.1	METAL	-NONE-					45 MIN. RATED
8.									
9.									

NOTES: GARAGE DOOR TO MEET FL-22 REQUIREMENTS 14' X 14' (+ 28.1 PSF -32.1 PSF)

PROVIDE IMPACT WINDOWS WITH LOW "E" INSULATED GLAZING ON ALL WINDOWS AND DOORS.
WINDLOADS BASED ON 145 MPH PER FIGURE 1609A FBC 2014.

2. WINDOW SCHEDULE

SCALE: NONE

MARK	DESCRIPTION	ELEV.	FRAME	GLAZING	DESIGN PRESSURE		REMARKS		
					ZONE 4	ZONE 5			
A.	7'-0" X 14'-6" CURTAIN WALL UNIT	AA5.1	ALUM.	INSULATED	32.2	-35.4	37.9	-50.1	DOOR #1 IN UNIT
B.	7'-0" X 15'-0" CURTAIN WALL UNIT	BA5.1	ALUM.	INSULATED	32.2	-35.4	37.9	-50.1	
C.	3'-0" X 4'-2" FIXED GLASS	CA5.1	ALUM.	INSULATED	39.4	-41.2			
D.									

NOTES: PROVIDE IMPACT WINDOWS WITH LOW "E" INSULATED GLAZING ON ALL WINDOWS AND DOORS.

ALL UNITS TO HAVE CLEAR ANODIZED FINISH

SEE EXTERIOR ELEVATIONS FOR DIVIDED LITE CONFIG.

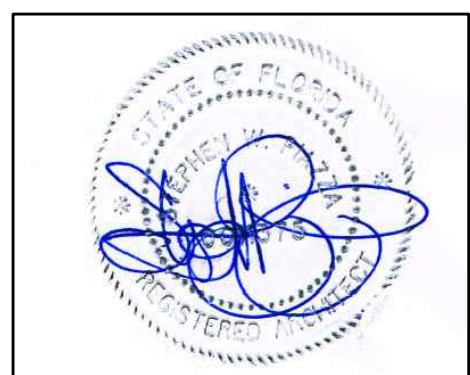
SEE GLASS SHOP DRAWINGS FOR TESTED DESIGN PRESSURES FOR EXTERIOR WINDOWS.

ALL ALUMINUM WINDOWS A SERIES TO EXCEED REQUIRED DESIGN PRESSURES. SEE NOA FOR TESTED DESIGN PRESSURES

3. ROOM FINISH SCHEDULE

SCALE: NONE

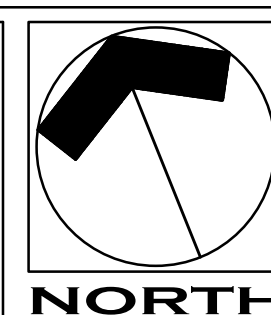
RM. NO.	ROOM NAME	FLOOR:	BASE	WALLS	CEILING	CLG. HGT.	REMARKS	RM. NO.
		TILE	WOOD BASE	CERAMIC TILE	GYP. BD. - PAINT			
		1	2	1	2			
		2	3	2	3			
		3	1	1	1			
		1	1	1	1			
		2	3	1	3			
		3	1	1	1			
101	WAITING ROOM	1	1	1	3	10'-0"		101
102	MULTI-PURPOSE ROOM	1	3	1	3	12'-0"		102
103	CORRIDOR	1	1	1	3	10'-0"		103
104	WOMEN	1	2	1	2	9'-0"	WAINSCOT 4'-6" HT @ WET WALL	104
105	MEN	1	2	1	2	9'-0"	WAINSCOT 4'-6" HT @ WET WALL	105
106	OFFICE	1	3	1	3	10'-0"		106
107	WORK BAY	2	3	1	3	VARIES		107
108	EQUIP. ROOM	2	3	1	3	VARIES		108
109	GARAGE BAY	2	3	3	4	VARIES		109



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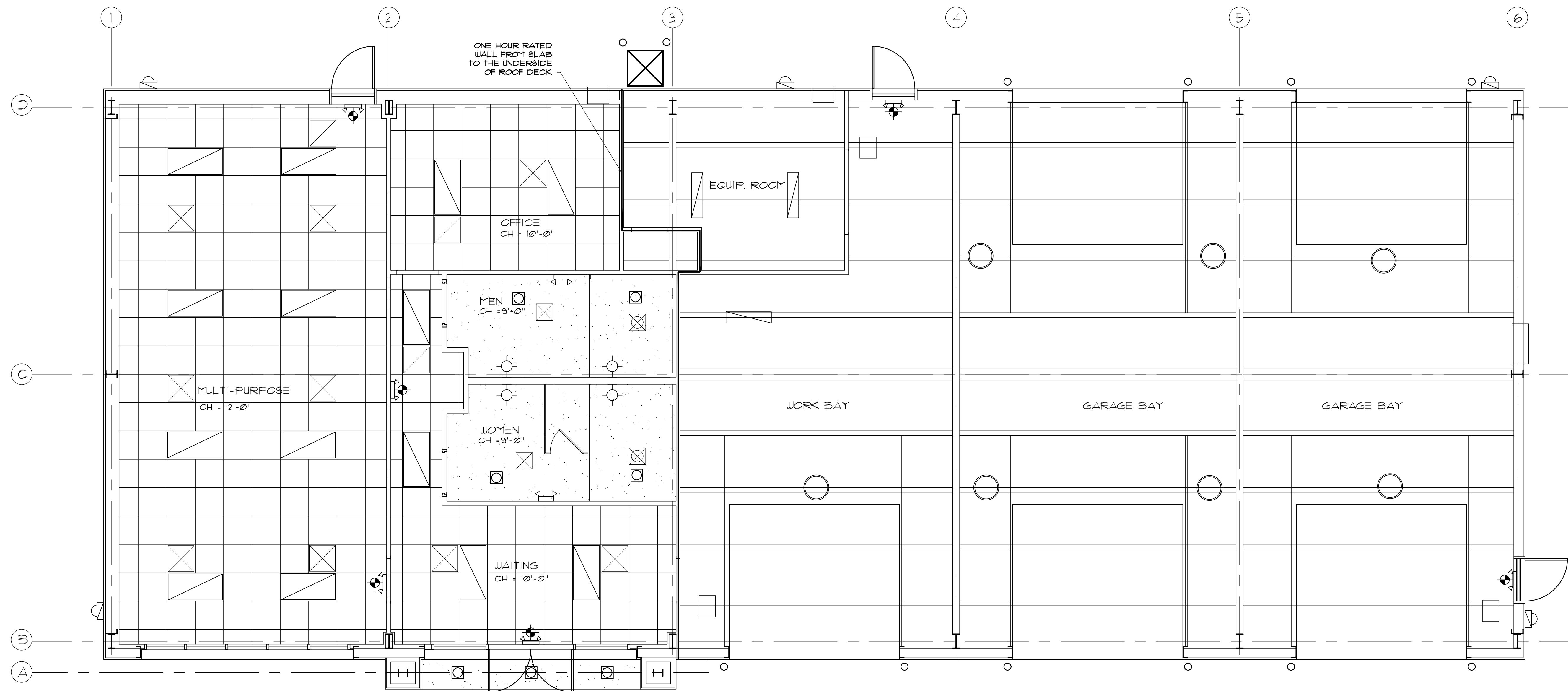


FT. WALTON BEACH FIRE & RESCUE
FIRE TRAINING BUILDING
FT. WALTON BEACH • FLORIDA

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1. REFLECTED CLG PLAN

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

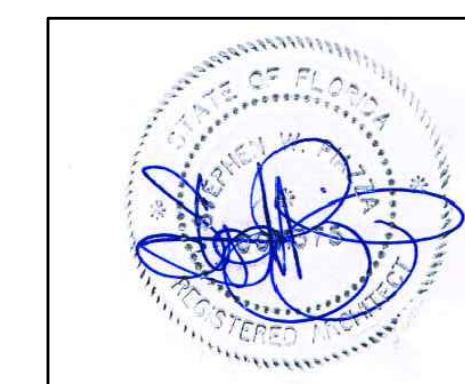
GENERAL NOTES:

1. Ceiling tile to be 24x24x1" Armstrong "Optima" acoustical tile square lay-in with beveled edges, or approved equal.
2. Suspended metal grid factory painted white.
3. Suspended gypsum wallboard to be 5/8" moisture resistant type, on metal grid.
4. Contractor shall provide additional hanging wires at all light fixtures as called for by code.
5. Draft stops shall be installed as per county and state codes.
6. Concealed Insulation shall have a flame spread of 0-75 and a smoke development factor of 0-450.

2. CEILING LEGEND

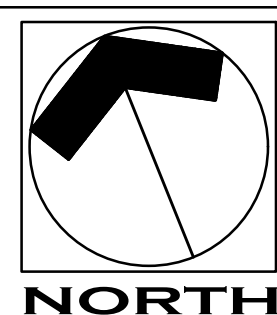
SCALE: NONE

- 2x4' LAY-IN T-8 FLUORESCENT LIGHT FIXTURE WITH PRISMATIC LENS.
- 1x4' HANGING FLUORESCENT LIGHT FIXTURE WITH SHIELDED LENS.
- LED DOWN LIGHT, 75 WATT MAX.
- SURFACE MOUNT HALIGEN LIGHT FIXTURE
- LED WALL SCONCE, 75 WATT MAX.
- EXIT LIGHT, WITH BATTERY BACK-UP, ON EMERGENCY CIRCUIT.
- EMERGENCY LIGHT, WITH BATTERY BACK-UP, ON EMERGENCY CIRCUIT.



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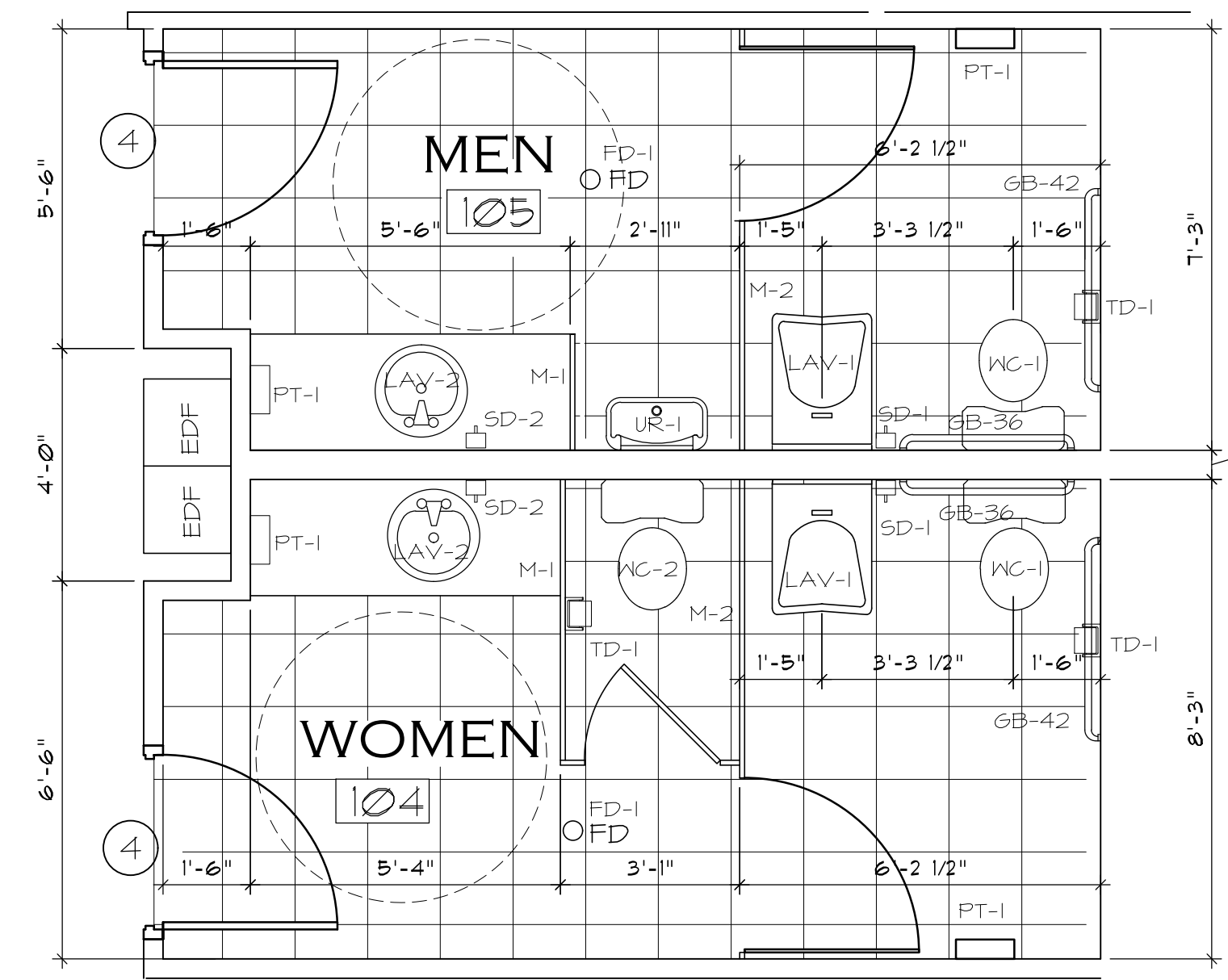
sheet :
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PLUMBING FIXTURE LEGEND:

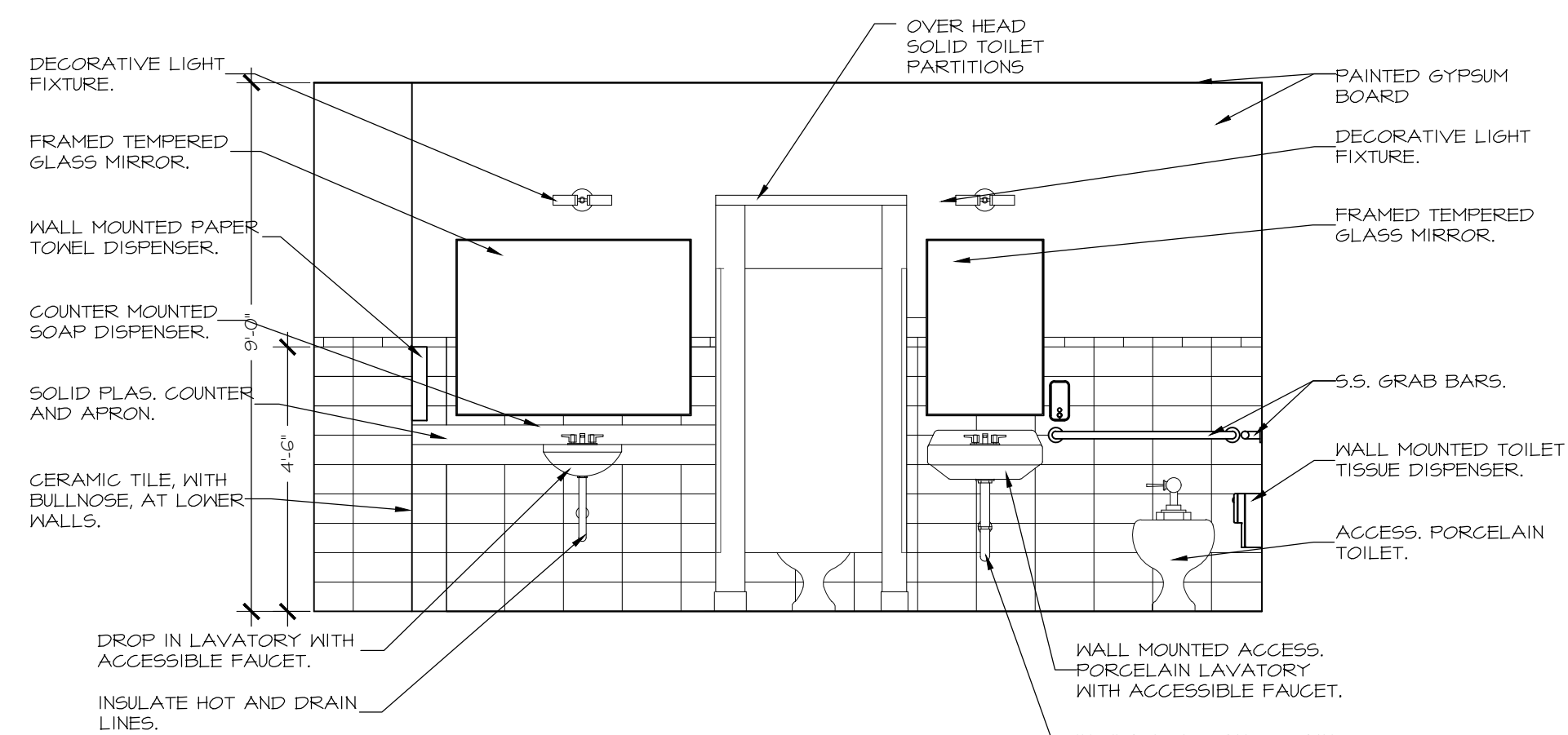
- FD-1, FLOOR DRAIN TO BE SIZED BY ENGINEER, TRIM RING TO BE SELECTED BY ENGINEER
- GB-36, STAINLESS STEEL 36" GRAB BAR, BOBRICK B-6806 OR APPROVED EQUAL
- GB-42, STAINLESS STEEL 42" GRAB BAR, BOBRICK B-6806 OR APPROVED EQUAL
- LAV-1, PORCELAIN WALL MOUNTED LAVATORY WITH FAUCET "ACCESSIBLE", TO BE SELECTED BY ENGINEER
- LAV-2, PORCELAIN DROP-IN LAVATORY WITH FAUCET "ACCESSIBLE", TO BE SELECTED BY ENGINEER
- M-1, 48" x 36" FRAMED TEMPERED GLASS MIRROR, BOBRICK B-2408-4836 OR APPROVED EQUAL
- M-2, 24" x 36" FRAMED TEMPERED GLASS MIRROR, BOBRICK B-2408-2436 OR APPROVED EQUAL
- PT-1, PAPER TOWEL DISPENSER, BOBRICK MODEL B-262 OR APPROVED EQUAL
- SD-1, WALL MOUNTED SOAP DISPENSER, BOBRICK B2111 OR APPROVED EQUAL
- SD-2, COUNTER MOUNTED SOAP DISPENSER, BOBRICK B822 OR APPROVED EQUAL
- TD-1, TOILET PAPER DISPENSER, BOBRICK B-2888 OR APPROVED EQUAL
- UR-1, WALL MOUNTED URINAL "ACCESSIBLE", TO BE SELECTED BY ENGINEER
- WC-1, PORCELAIN FLOOR MOUNTED TOILET "ACCESSIBLE", TO BE SELECTED BY ENGINEER
- WC-2, PORCELAIN FLOOR MOUNTED TOILET, TO BE SELECTED BY ENGINEER

NOTE:

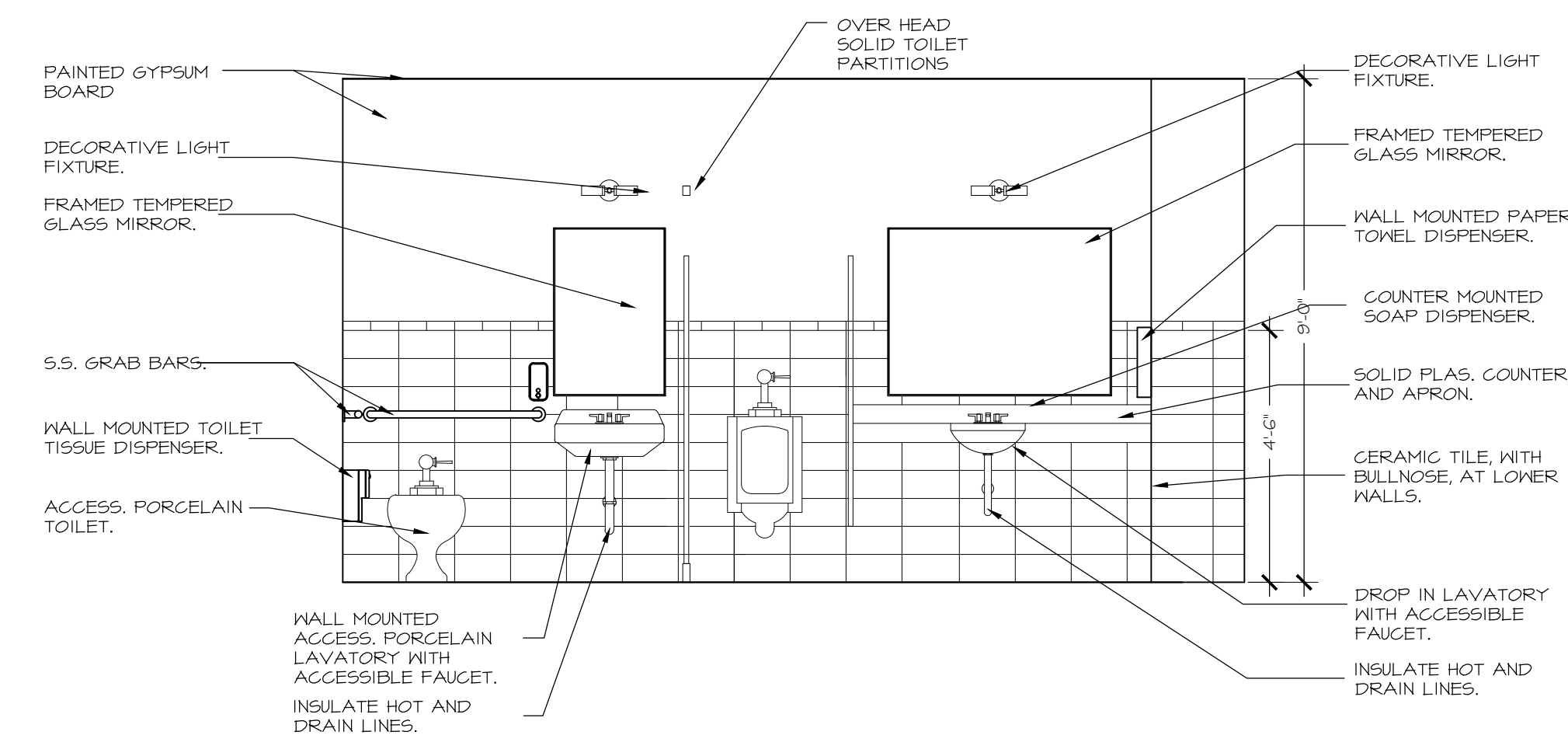
PROVIDE SOLID 2X BLOCKING IN WALLS FOR ATTACHMENT OF TOILET PARTITIONS, URINAL SCREENS, AND GRAB BARS. NOTIFY ARCHITECT FOR BLOCKING INSPECTION PRIOR TO INSTALLATION OF WALL FINISHES.



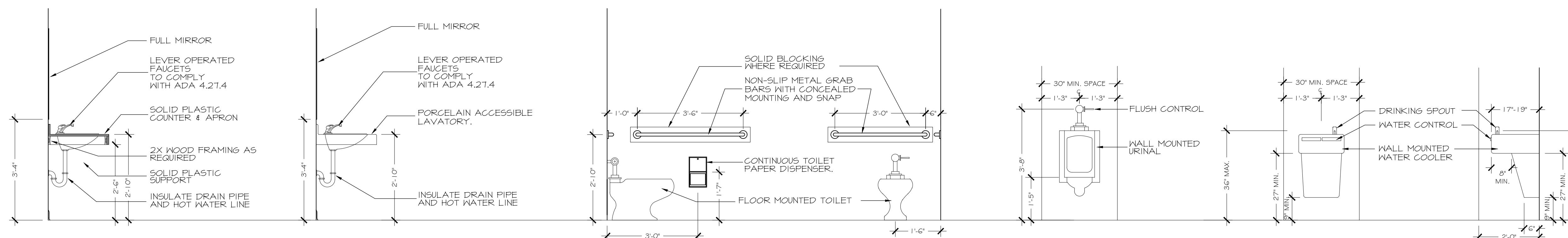
1. RESTROOM PLAN
SCALE: 3/8" = 1'-0"



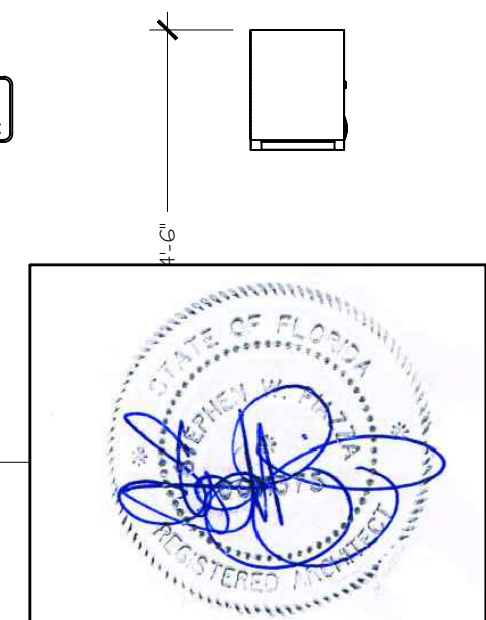
2. WOMEN'S RESTROOM ELEVATION
SCALE: 3/8" = 1'-0"



3. MEN'S RESTROOM ELEVATION
SCALE: 3/8" = 1'-0"

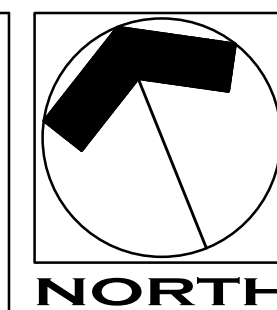


4. ACCESSIBLE DETAILS
SCALE: 3/8" = 1'-0"



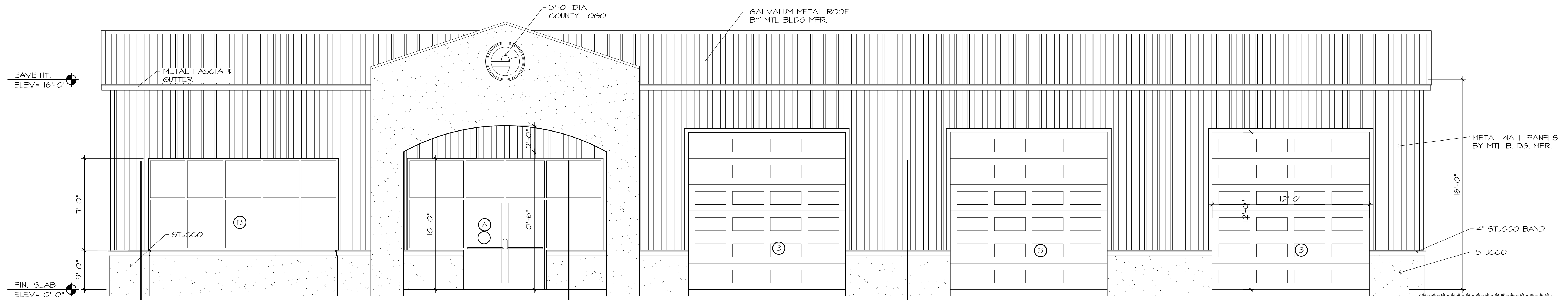
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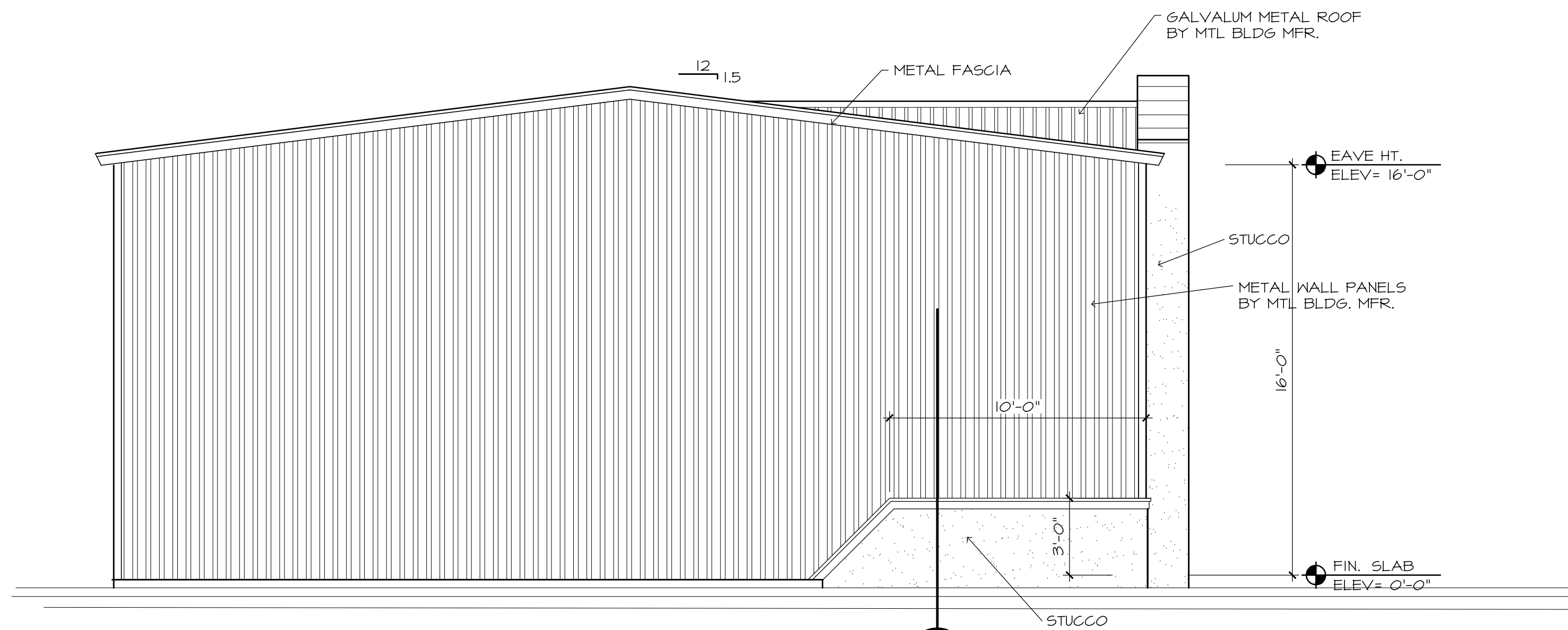


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FIRE TRAINING BUILDING
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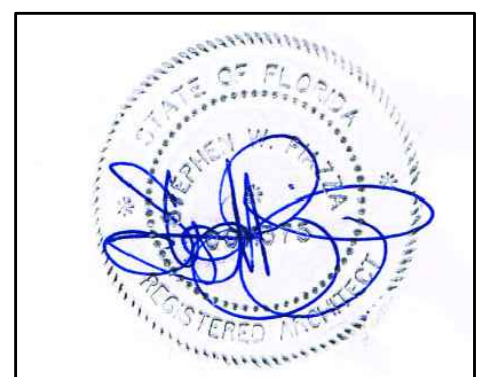


1. FRONT ELEVATION
SCALE: 1/4" = 1'-0"



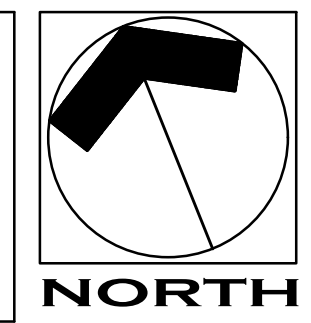
2. SIDE ELEVATION
SCALE: 1/4" = 1'-0"

TRAINING & GARAGE BUILDING



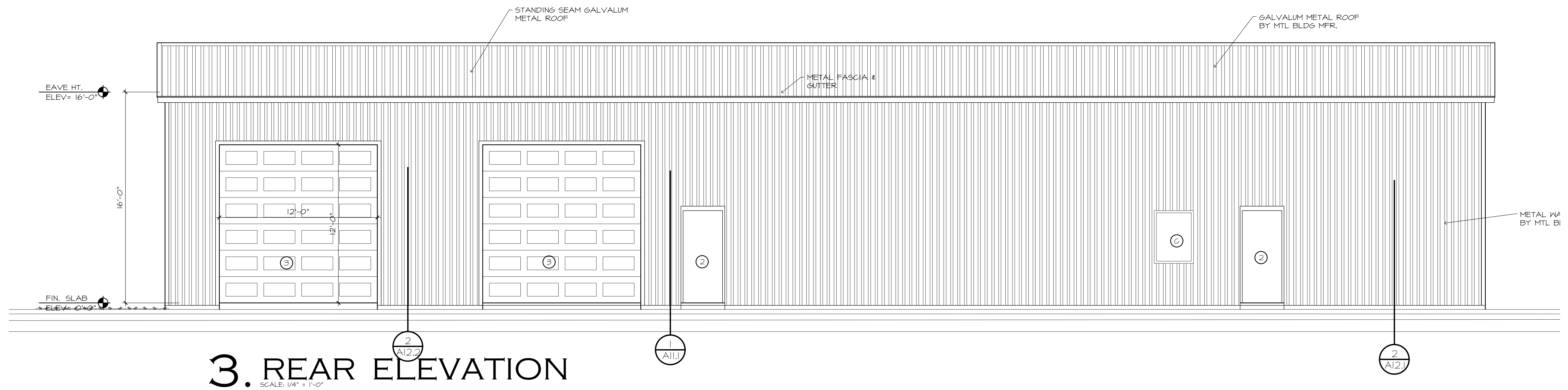
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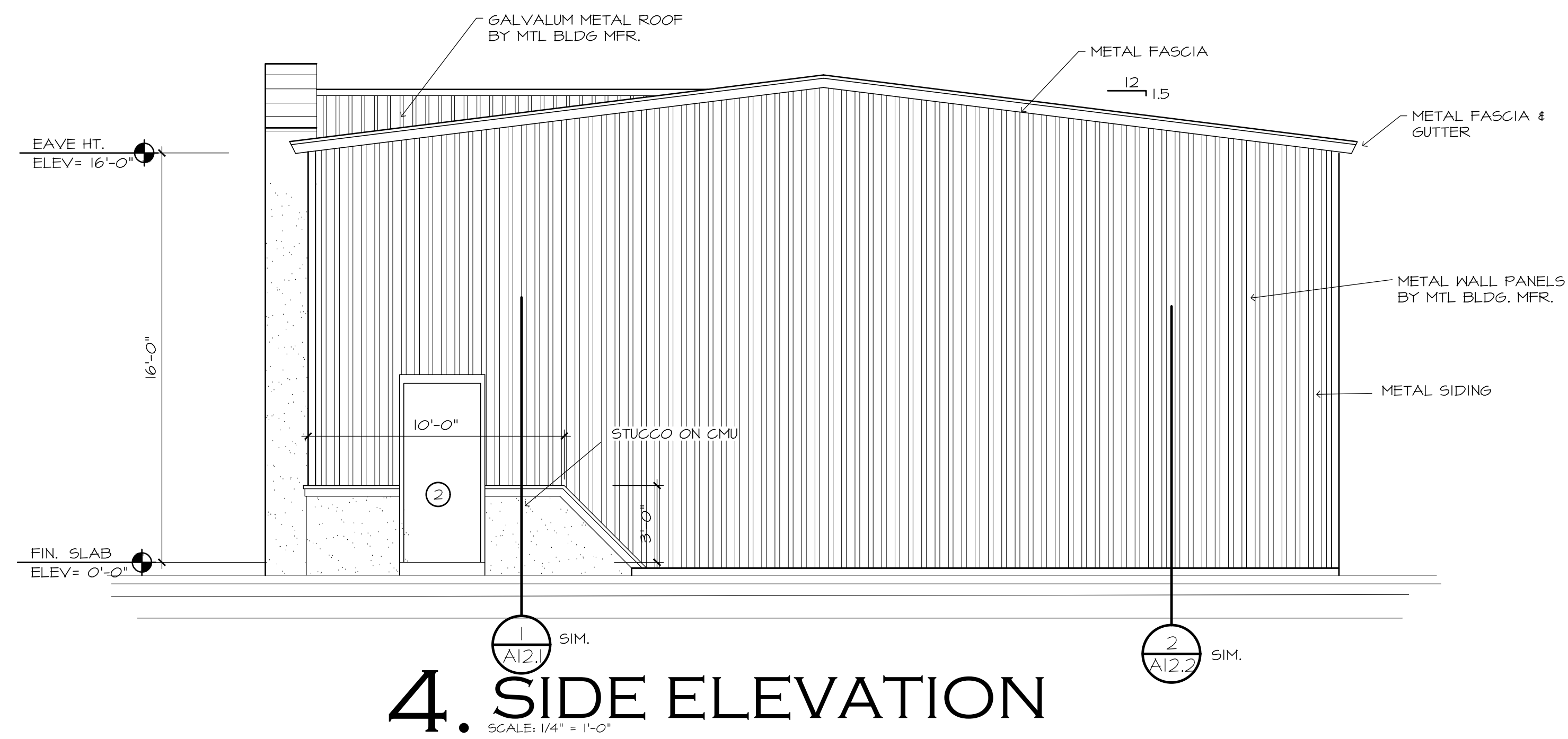


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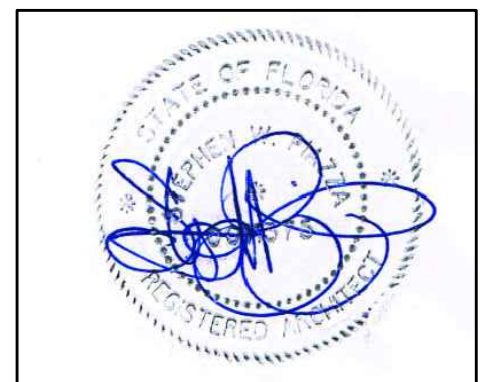


3. REAR ELEVATION
SCALE: 1/4" = 1'-0"



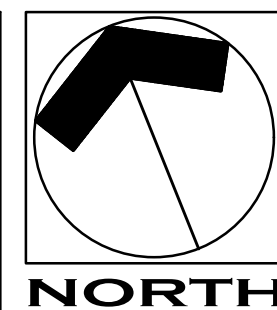
4. SIDE ELEVATION
SCALE: 1/4" = 1'-0"

TRAINING & GARAGE BUILDING



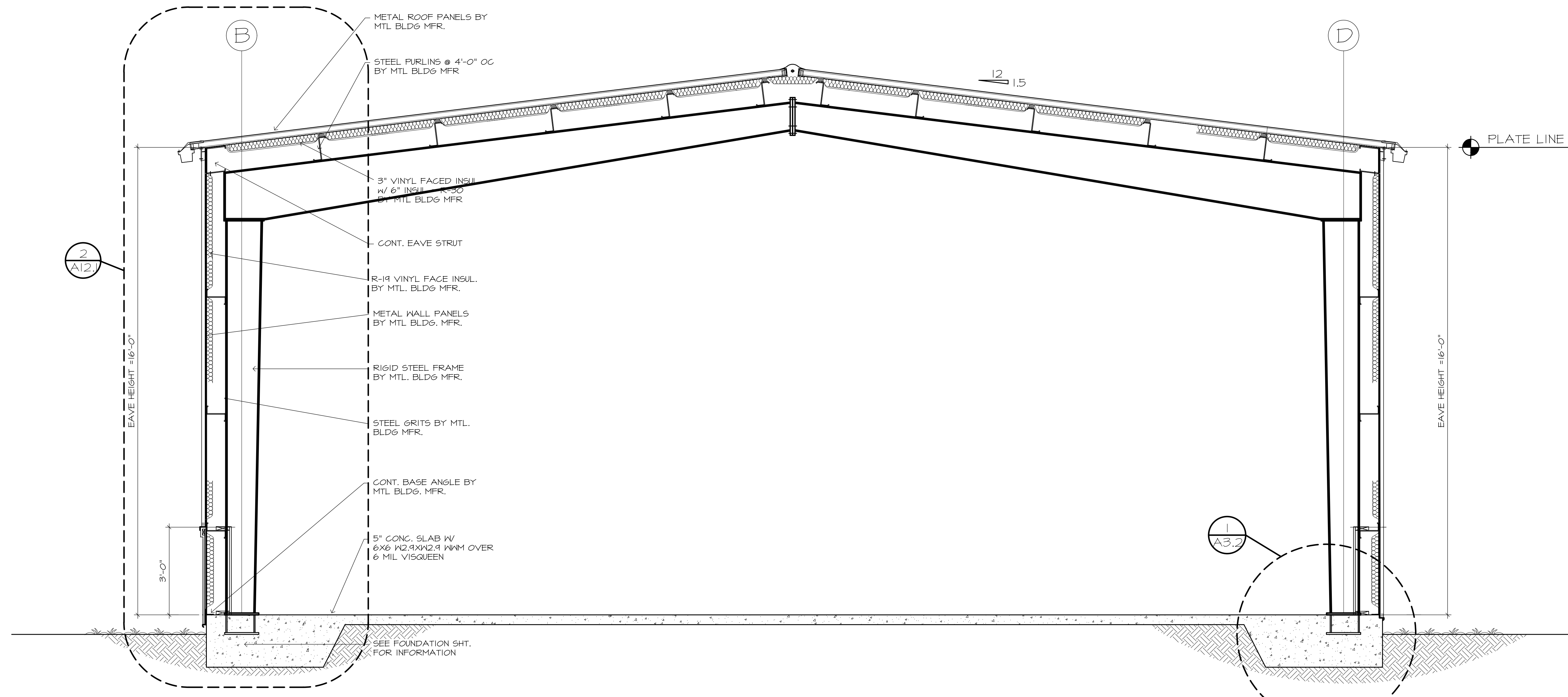
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1. FLOOR PLAN

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

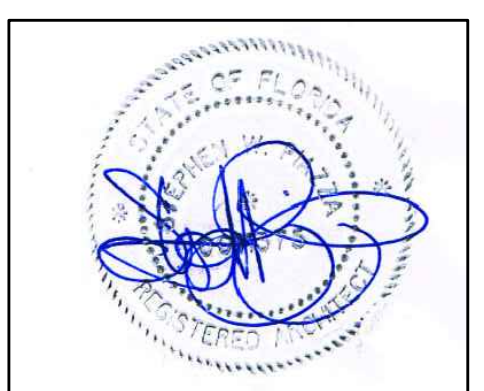
DESIGN CRITERIA:

- A. CODES:
 FLORIDA BUILDING CODE, 2014 5th EDITION, W/ SUPPLEMENTS.
 AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (TIMBER CONSTRUCTION MANUAL, LATEST EDITION).
 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (A.C.I. 318).
 BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES (A.C.I. 531).
- B. DESIGN LIVE LOADS:
 ROOF..... 20 PSF.
 FLOORS..... 40 PSF.
 LATERAL FORCES..... 145 MPH.

WIND LOAD INFORMATION:

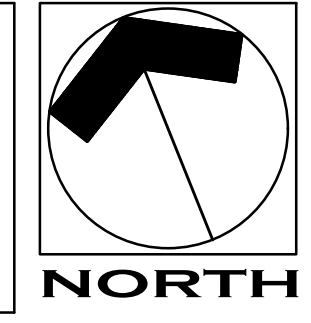
- BASIC WIND SPEED = 145 MPH
- WIND IMPORTANCE FACTOR = 1
- WIND EXPOSURE "B"
 HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT = 1.00
- GUST FACTOR SUMMARY = 0.85
 INTRENAL PRESSURE COEFFICIENTS GCPI = 0.18 / - 0.18
- VELOCITY PRESSURE $q = 0.00256 (Kz)(Kzt)(145)^2 (1.0)$
 $q = 0.00256 (0.85)(21,000)(1.0) = 45.69 \text{ PSF}$
 INTRENAL PRESSURE $P = 45.7(1.08)(+0.8) - 45.7(-0.30) = 53.21 \text{ PSF}$
- COMPONENTS & CLADDING
 MINIMUM PRESSURE REQUIREMENTS ON BUILDING SURFACE.
 WALLS:
 ZONE 5 CORNERS (4'-0") +37.4 -50.7 PSF
 ZONE 4 INTERIOR SURFACE +32.2 -35.4 PSF
 ROOF:
 ZONE 3 CROSSED END (3'x3') +15.4 -45.6 PSF
 ZONE 2 END (3'-0") +12.2 -41.1 PSF
 ZONE 1 INTERIOR +12.2 -34.7 PSF
- STRUCTURE CATAGORY = 2

TRAINING & GARAGE BUILDING



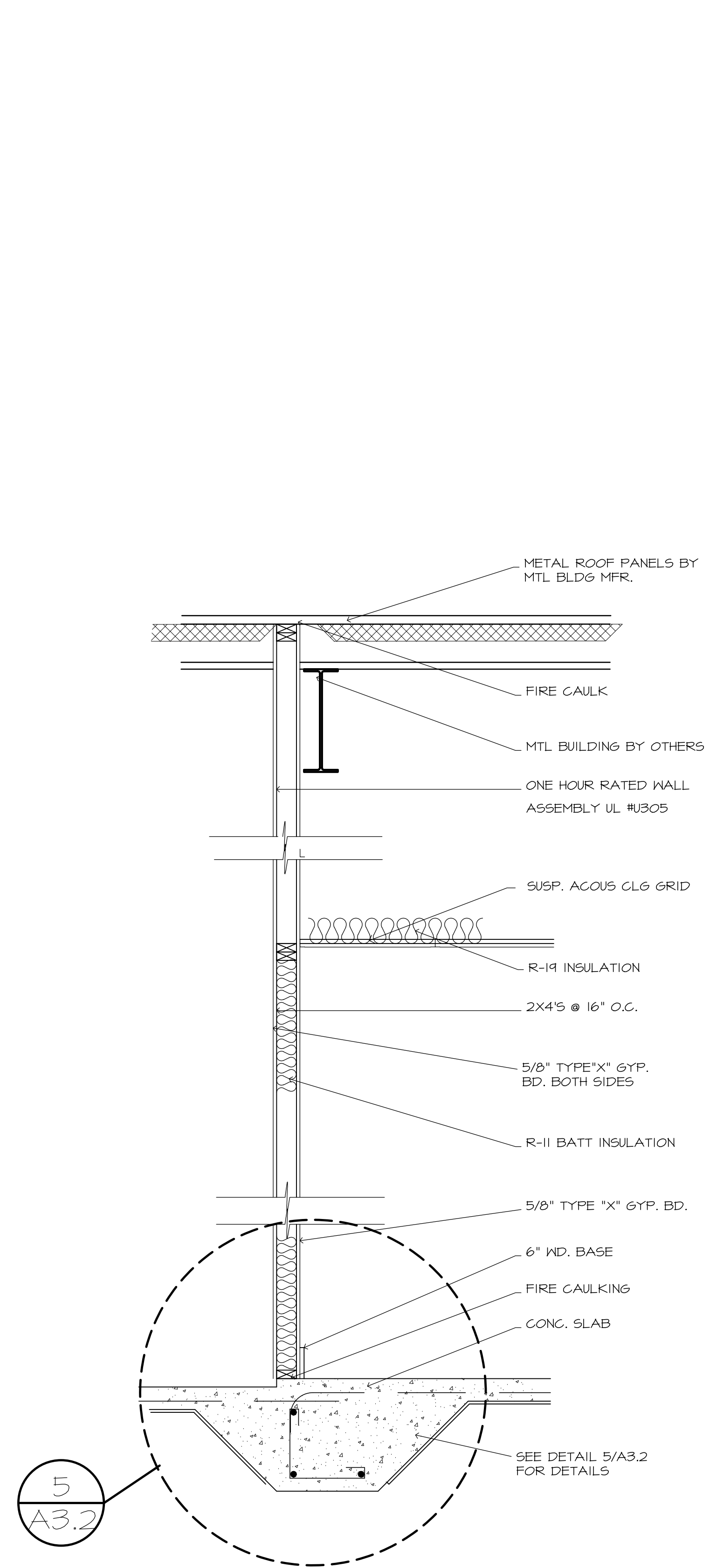
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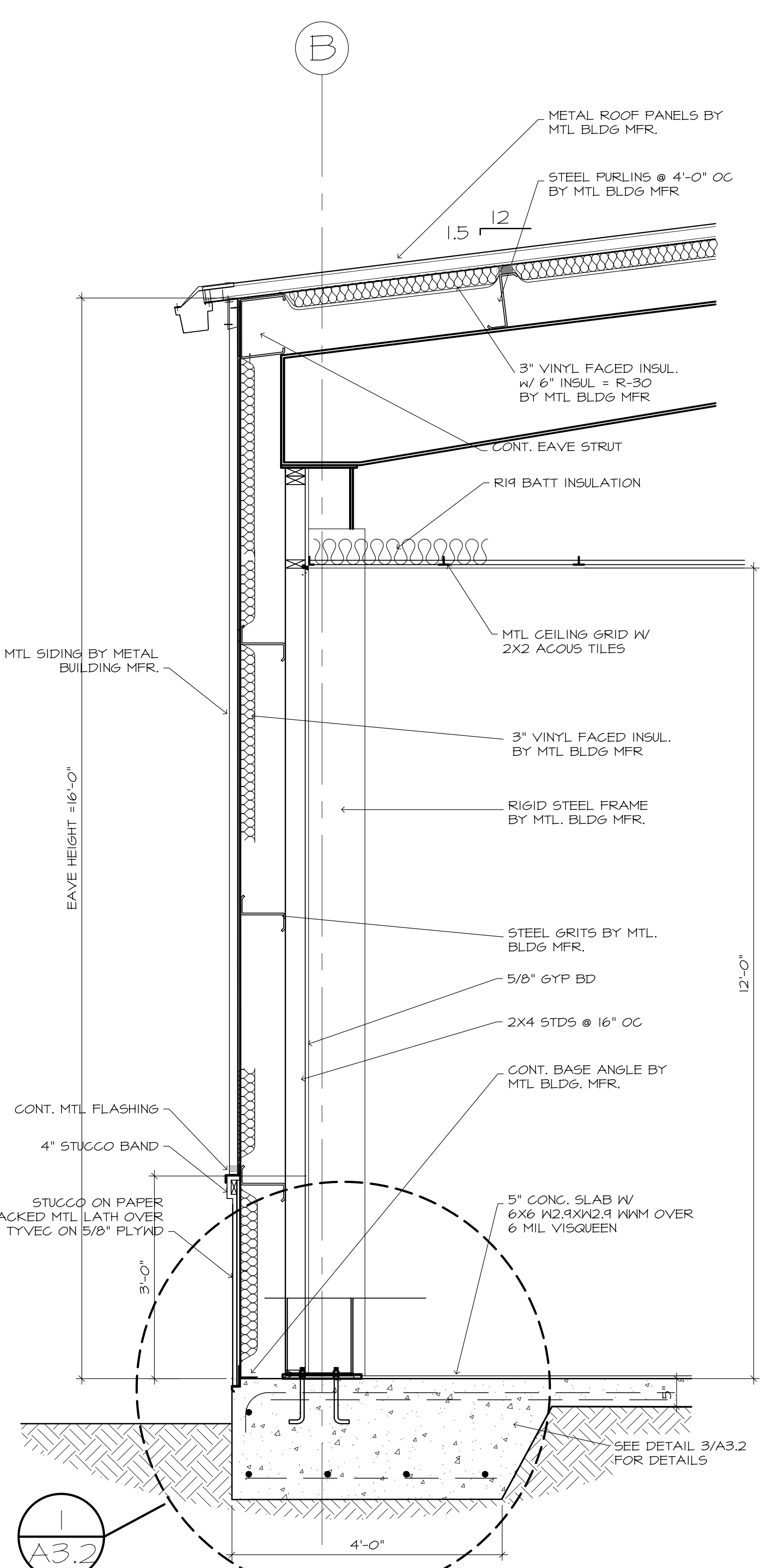


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 FIRE TRAINING BUILDING
 FT. WALTON BEACH • FLORIDA

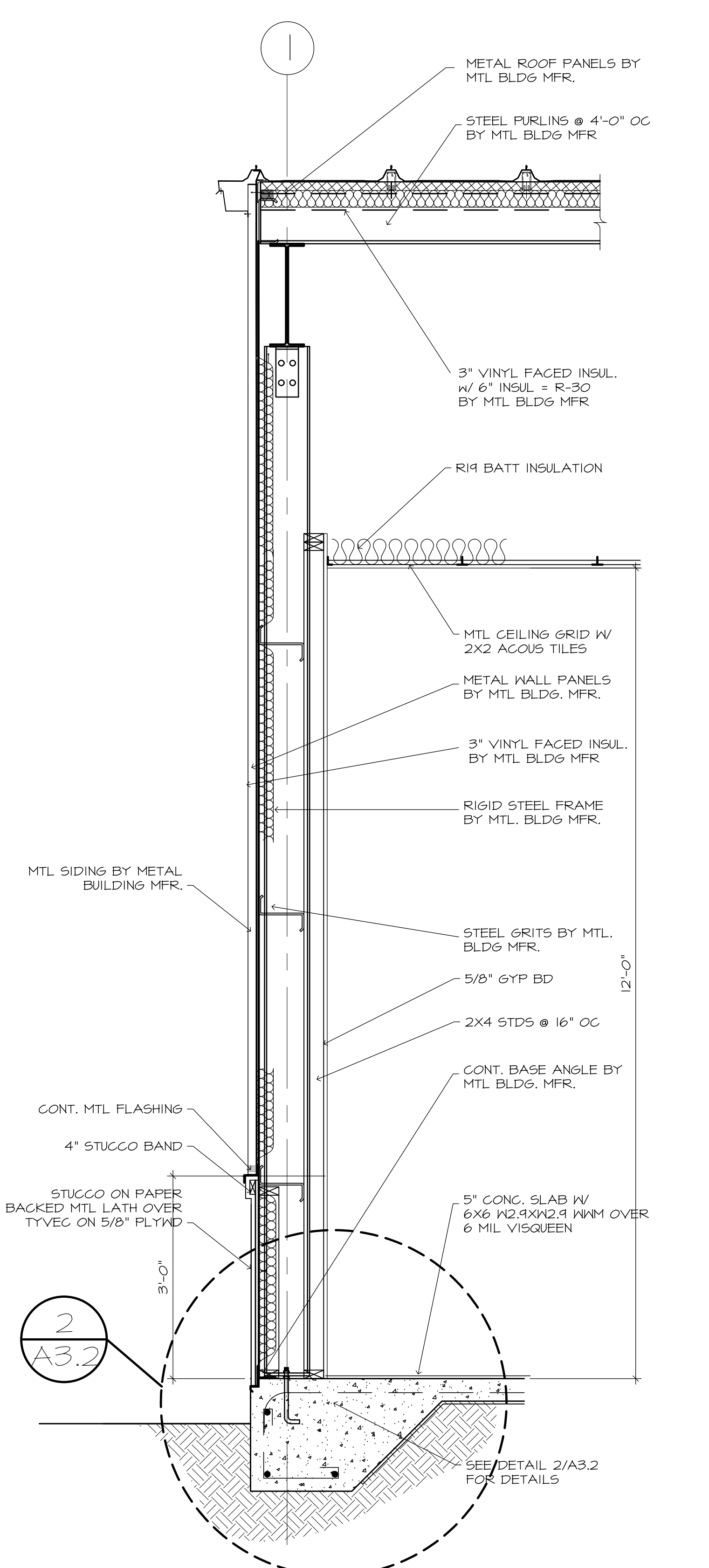
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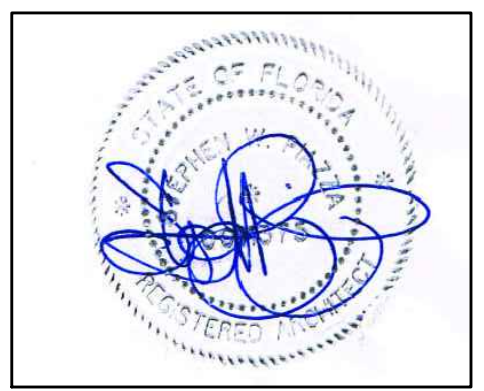
3. 1 HR RATED WALL SEC.
SCALE: 3/4" = 1'-0"



2. WALL SECTION
SCALE: 3/4" = 1'-0"

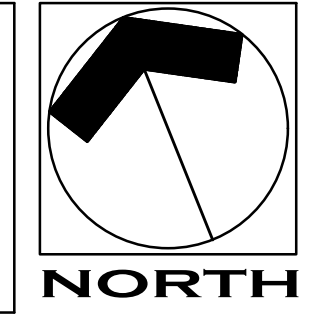


1. WALL SECTION
SCALE: 3/4" = 1'-0"



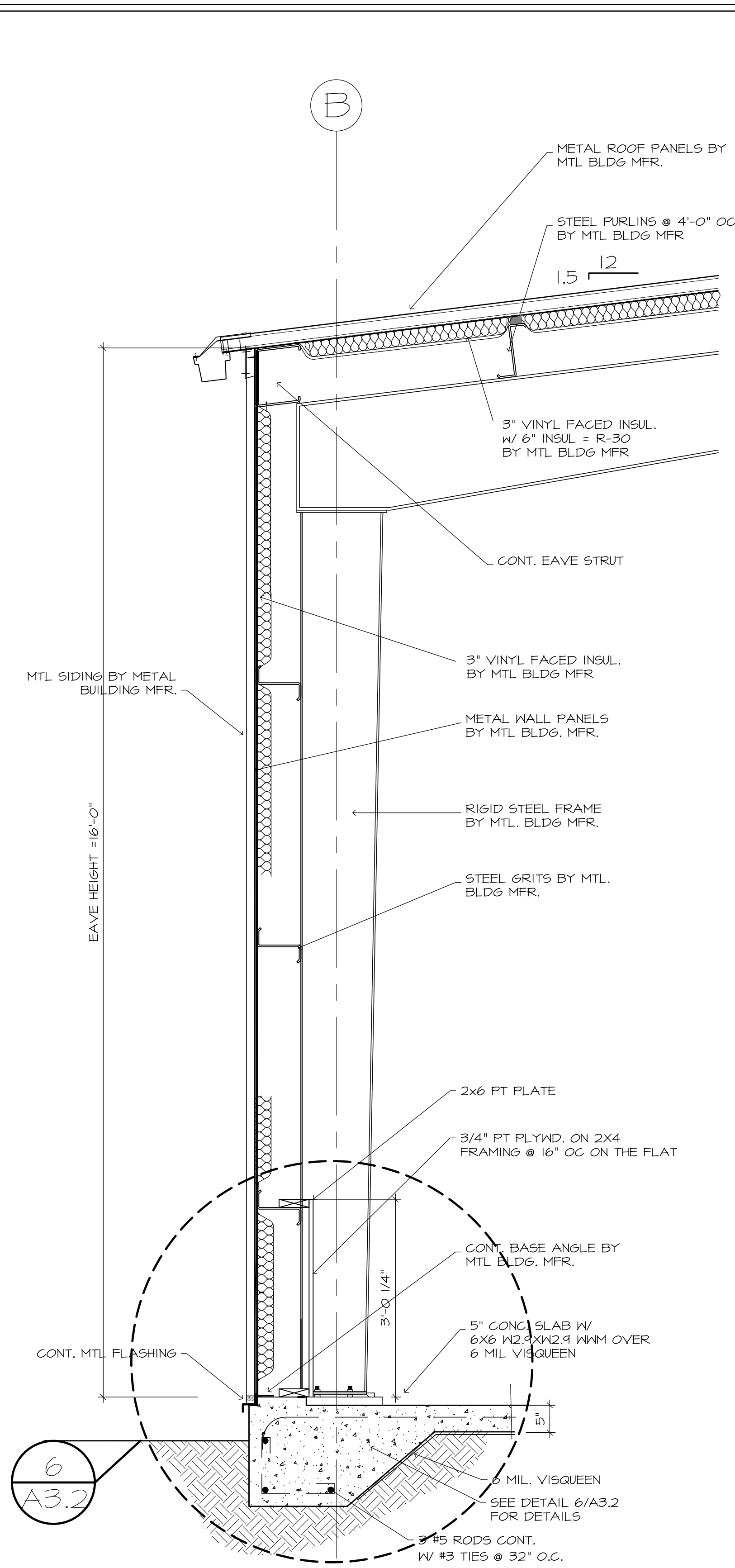
project: 2016
date: 6/23/17
revisions: REV 1
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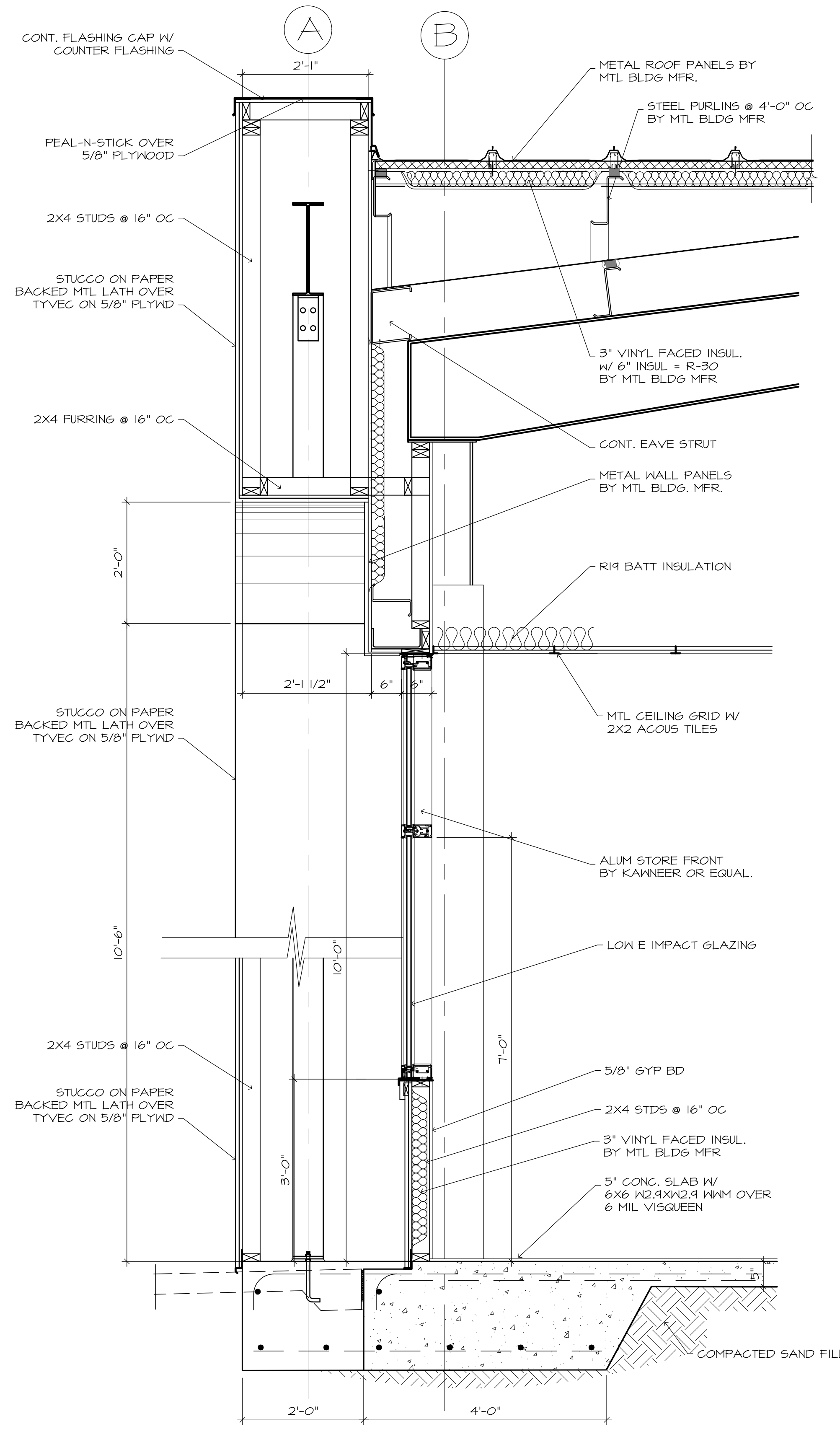


FT. WALTON BEACH FIRE & RESCUE
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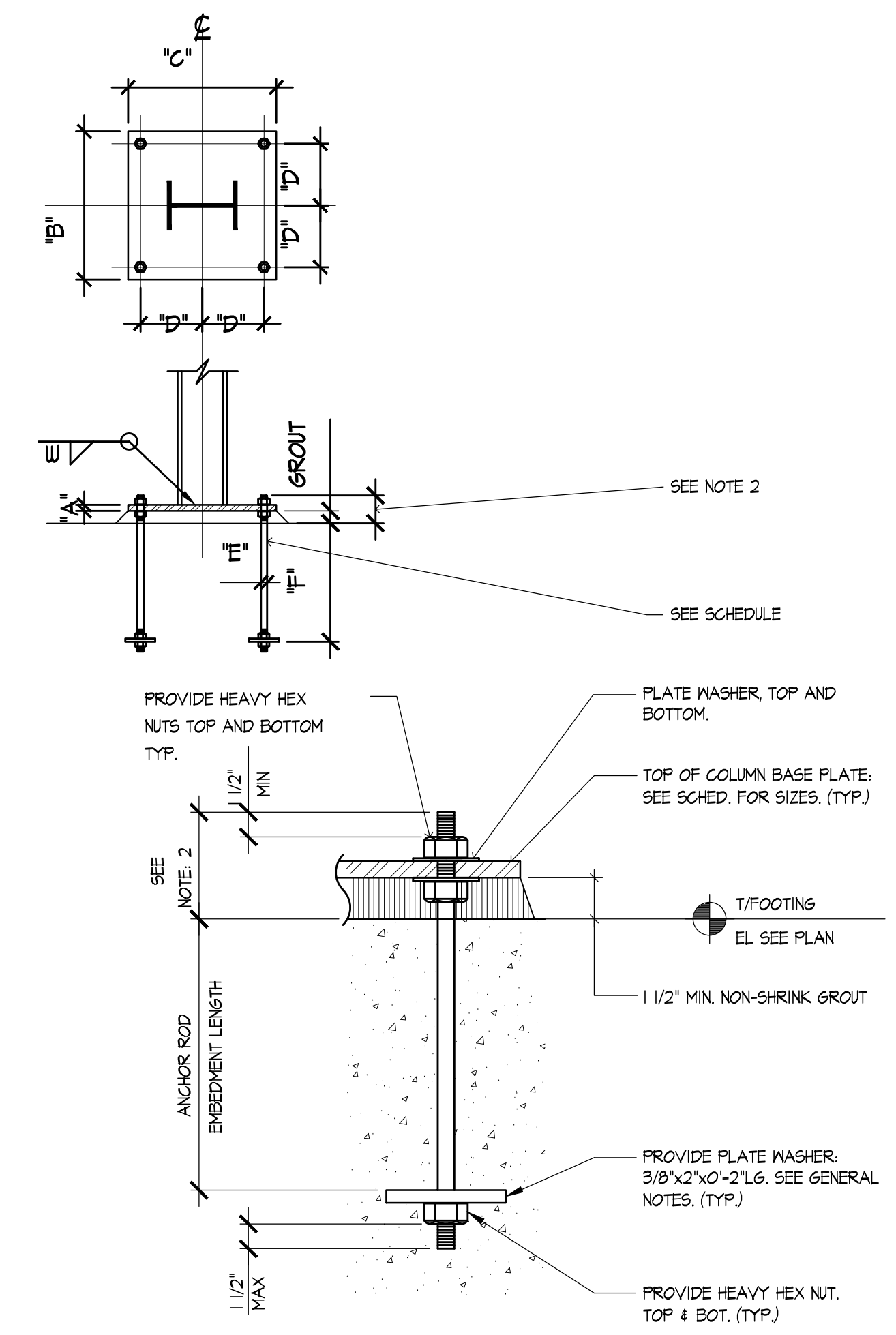
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2. WALL SECTION
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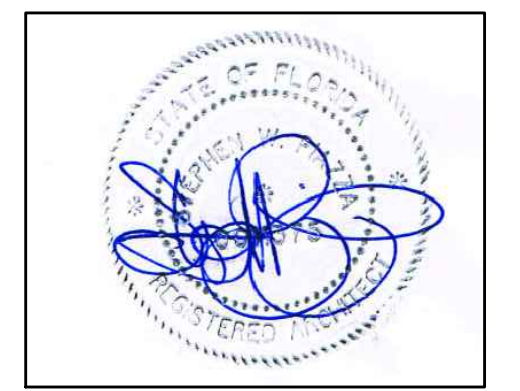


1. WALL SECTION
SCALE: 3/4" = 1'-0"



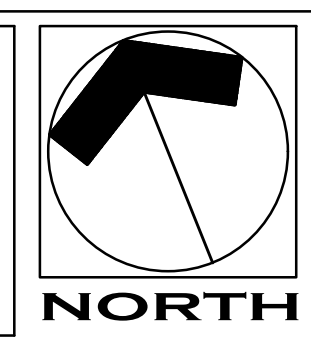
- ANCHOR ROD NOTES:**
1. INFORMATION SHOWN IN THIS DETAIL, IS FOR USE WITH ANCHOR RODS - 3/4" DIA. AND LARGER.
 2. ANCHOR ROD PROJECTION: MINIMUM LENGTH AS REQUIRED TO ACCOUNT FOR NON-SHRINK GROUT, COLUMN BASE PLATE THICKNESS, WASHERS / NUT, PLUS 1/2" MIN. (THREADED LENGTH ABOVE NUT)
 3. HOLES IN PLATE WASHERS SHALL BE SIZED 1/16" OVER THAT OF ANCHOR ROD DIAMETER.
 4. ALL ANCHOR ROD NUTS SHALL BE "SNUG TIGHTENED" AS DEFINED BY "AISC" AFTER THE FOOTING CONCRETE HAS A MINIMUM OF 14 (FOURTEEN) DAYS TO CURE. (TYPICAL UNLESS NOTED OTHERWISE)
 5. ALL STEEL SIZES, ANCHORS, FITTINGS, AND CONNECTIONS ARE TO BE AS PER THE MANUFACTURER DESIGN AND ENGINEERING.

3. TYP. ANCHOR DETAILS
SCALE: NOT TO SCALE



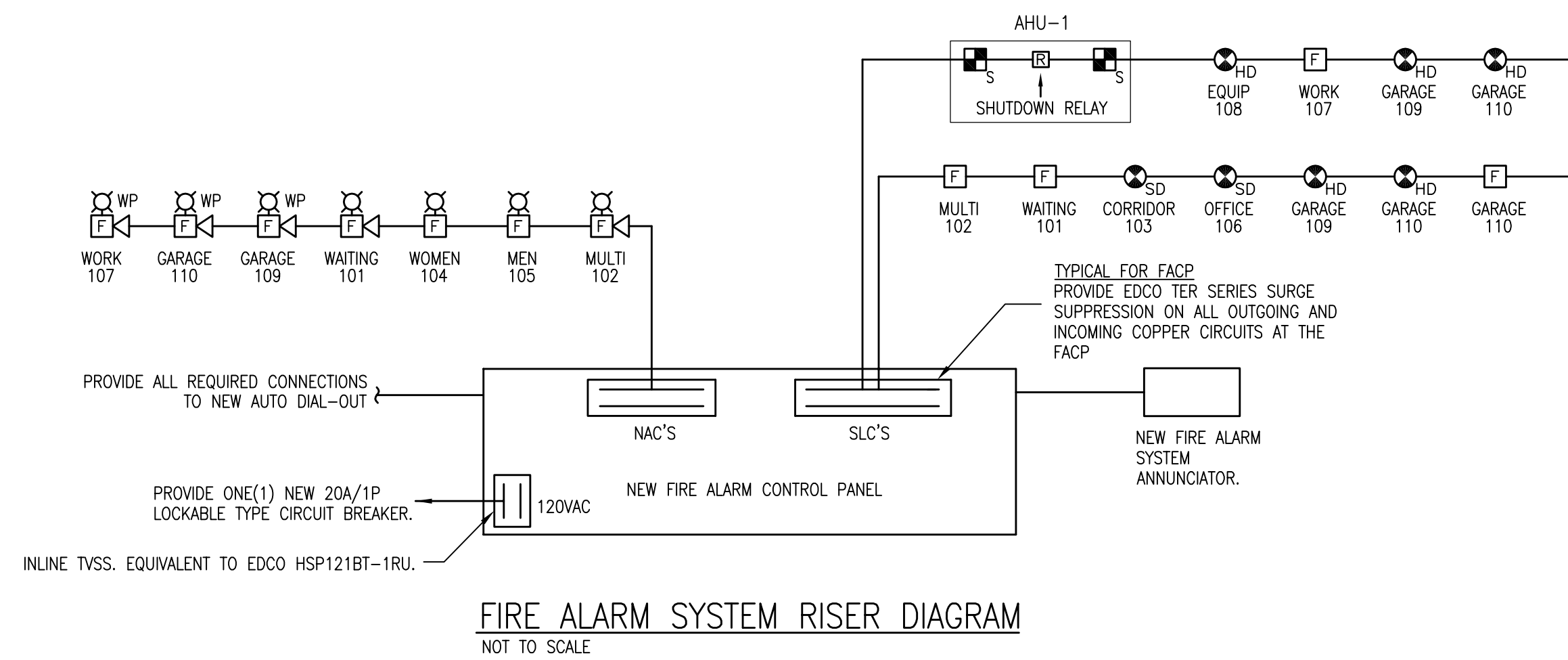
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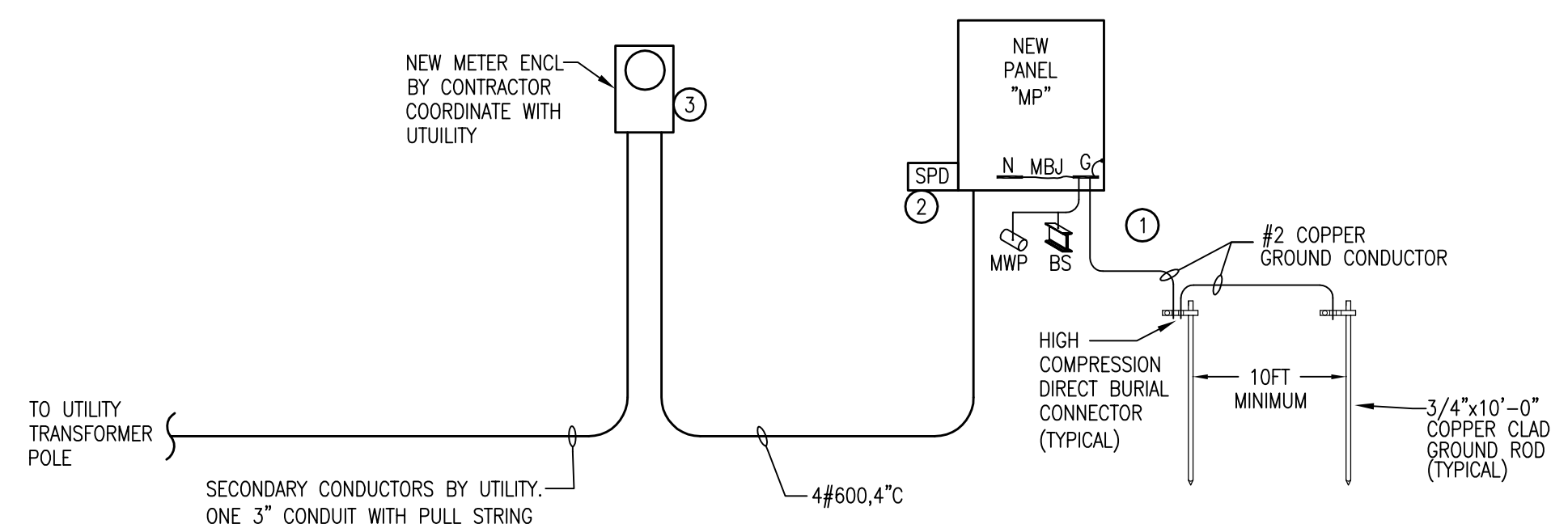
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of: 21



FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE

SINGLE LINE DIAGRAM KEYNOTES:

- GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC 2011 ARTICLE 250.
- PROVIDE EXTERNAL, SERVICE ENTRANCE RATED, CATEGORY-C SURGE PROTECTION DEVICE, 10-MODE, 240KA PER PHASE.
- PROVIDING GROUNDING AND BONDING AT THE UTILITY METER IN ACCORDANCE WITH NEC 2011 ARTICLE 250.



ELECTRICAL SINGLE LINE
SCALE: NOT TO SCALE

"PANEL MP"										
NEMA 1, SURFACE MOUNT SPLIT BUS		400A M.C.B. 240V/120V 3ø 4W						9,623 SCA 10,000 AIC		
CKT NO.	LOAD DESCRIPTION	BREAKER POLE AMP	KVA	BREAKER AMP POLE	LOAD DESCRIPTION	CKT NO.				
1	AHU#1	3 40	12.3	8.0	40 3	HPU#1	2			
3	PREPARED SPACE "3-PHASE LOADS ONLY"	3			3	PREPARED SPACE "3-PHASE LOADS ONLY"	4			
225A M.L.O. 240/120V 1ø 3W										
5	LTS GARAGE BAY, EQUIP RM	1 20	0.8	1.5	20 1	LTS CORR,OFFICE,WAITING,MEN,WOMEN	6			
7	LTS EXTERIOR	1 20	0.6	0.4	20 1	REC GARAGE BAY EAST	8			
9	REC GARAGE BAY WEST	1 20	0.9	0.5	20 1	REC EQUIPMENT ROOM	10			
11	REC OFFICE	1 20	0.7	0.9	20 1	REC MULTI PURPOSE	12			
13	REC MULTI PURPOSE	1 20	0.9	0.7	20 1	REC WAITING, CORR, MEN, WOMEN	14			
15	FACP	1 20	0.4	1.2	20 1	TBB	16			
17	CASCADE SYSTEM	2 40	5.5	5.3	40 2	TWO STAGE AIR COMPRESSOR	18			
19							20			
21	EUH#1	1 20	1.5	4.3	25 2	EUH#2	22			
23	EUH#3	2 25	4.3	4.3	25 2	EUH#4	24			
25							26			
27	VF#1	1 20	1.6	4.3	25 2		28			
29	DOOR OPERATOR	1 20	1.6	1.6	20 1	DOOR OPERATOR	30			
31	DOOR OPERATOR	1 20	1.6	1.6	20 1	DOOR OPERATOR	32			
33	DOOR OPERATOR	1 20	1.6	4.5	25 2	WH#1	34			
35							36			
37	AHU#1	2 40	11.4	8.1	40 2	HPU#1	38			
39							40			
41	BATTERY CHARGING STATION	1 20	1.0		20 1	SPARE	42			
43	SPARE	1 20			20 1	SPARE	44			
45	SPARE	1 20			20 1	SPARE	46			
47	SPARE	1 20				SPARE	48			
49	SPARE	1 20				SPARE	50			
51	SPACE					SPACE	52			
54	SPACE					SPACE	54			

CONNECTED 90.6 KVA
317.08 AMPS PHASE A
56.4 AMPS PHASE B
282.08 AMPS PHASE C

* PROVIDE LOCKABLE BREAKER

LIGHTING FIXTURE SCHEDULE						
MARK	LAMPS		MOUNTING	MANUFACTURER AND CATALOG NUMBER	NOTES	
	#	WATTS				
BPS	2	1.5W	LED	UNIVERSAL	HE WILLIAMS EMER/LED-WHT-HL-SOT	
DL3	1	32W	CFL	RECESSED FLANGE	HE WILLIAMS PH75-132T-CS-EB1-F	
DL4	2	42W	CFL	RECESSED FLANGE	HE WILLIAMS PH75-242T-CS-EB2	
EXEM	2	1W	LED	UNIVERSAL	HE WILLIAMS EXIT/EM/LED-R-WHT-SOT	ARROW AS PER PLANS, SINGLE/DOUBLE FACE AS PER PLANS.
F2A	2	32W	F32T8 35K	RECESSED GRID	DAYBRITE 2T08232-FA-12-120-1/2-EB10R	
F2I	2	32W	F32T8 35K	SUSPENDED 9'0" AFF	DAYBRITE 2F-232-PP-120-1/2-EB10R-FL173	
F3A	3	32W	F32T8 35K	RECESSED GRID	DAYBRITE 2T08332-FA-12-120-1/2-EB10R	
FS	2	25W	F25T8 35K	SURFACE WALL ABOVE DOOR	DAYBRITE CSW-236-20-120-1/2-EB10R	
FW	3	32W	F32T8 35K	SUSPENDED 9'0" AFF	HE WILLIAMS 92-4-332-A-EB3-120	
HB	FURNISHED W/FIXTURE	100W	LED	SUSPENDED 15'0" AFF	HE WILLIAMS GC-L120/850-W-DIM-120-PM2	
VL				SURFACE WALL ABOVE MIRROR	SELECTED BY ARCHITECT \$150 ALLOWANCE	
WS	FURNISHED W/FIXTURE	107W	LED	40K	GARCOO 101L-32L-1000-NWG1-3-120-F1-BZ	

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	FLUORESCENT LIGHTING FIXTURE. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE.
[Symbol]	INCANDESCENT, COMPACT FLUORESCENT, OR HID LIGHTING FIXTURE. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE.
[Symbol]	EXIT LIGHT, DARKENED QUADRANTS INDICATE ILLUMINATED FACES, ARROWS AS INDICATED. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE.
[Symbol]	PANELBOARD - SEE RESPECTIVE PANELBOARD SCHEDULE. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL.
[Symbol]	BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. ARROW INDICATES CIRCUIT HOMERUN. HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT, "I" INDICATES CIRCUIT BREAKER SPACE IN PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CIRCUIT SIZE = 2#12, 1#12G, 3/4" CONDUIT. SHARING OF NEUTRAL CONDUCTORS IS NOT PERMITTED.
[Symbol]	HEAVY DUTY SAFETY SWITCH - SIZE AND TYPE AS NOTED. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL.
[Symbol]	ELECTRIC MOTOR
[Symbol]	20 AMP, 120/277 VAC SINGLE POLE TOGGLE SWITCH - FLUSH WALL MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS: 3 - 20 AMP, 120/277 VAC THREE WAY TOGGLE SWITCH 4 - 20 AMP, 120/277 VAC FOUR WAY TOGGLE SWITCH. M - FRACTIONAL HP SWITCH 30 AMP EQUAL TO HUBBELL HBL7832D OR HBL7810D, AS REQUIRED. PROVIDE PHENOLIC LABEL. DT - DUAL TECHNOLOGY WALL SWITCH WATSTOPPER DSW-100 OR EQUAL.
[Symbol]	INDICATES WIRING DEVICE WITH WEATHER PROOF COVER PLATE.
[Symbol]	INDICATES DEVICE FLUSH MOUNTED HORIZONTALLY 42" AFF OR 6" ABOVE COUNTERTOP OR IN BACKSPASH. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.
[Symbol]	20 AMP, 125 VAC, 2-POLE, 3-WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE.
[Symbol]	20 AMP, 125 VAC, 2-POLE, 3-WIRE, GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED DIRECTLY ADJACENT TO CATV OUTLET.
[Symbol]	20 AMP, 125 VAC, 2-POLE, 3-WIRE, GROUND FAULT CIRCUIT INTERRUPTED TYPE DUPLEX RECEPTACLE FLUSH WALL-MOUNTED 18" A.F.F. UNLESS NOTED OTHERWISE.
[Symbol]	SPECIAL NEMA TYPE RECEPTACLE. PLUG TO MATCH EQUIPMENT BEING PROVIDED.
[Symbol]	RETRACTABLE PLUG REEL.
[Symbol]	JUNCTION BOX.
[Symbol]	POWER RELAY. PROVIDE WITH NEMA 1 ENCLOSURE. MOUNT IN ACCESSIBLE SPACE. SEE MECHANICAL SCHEDULES FOR INTERLOCK REQUIREMENTS.
[Symbol]	MOTORIZED LOUVER / DAMPER COORDINATE WITH MECHANICAL.
[Symbol]	DUPLEX VOICE/DATA OUTLET IN A 4" SQUARE BOX WITH 2 GANG EXTENSION RING. DEVICE MOUNTED 18" AFF UNLESS NOTED OTHERWISE WITH 3/4" CONDUIT UP IN WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE CONDUIT BUSHINGS. PROVIDE 2-CATSE VOICE/DATA CABLES BACK TO COMMUNICATIONS BACKBOARD. PROVIDE 2-PORT COVER PLATE EQUAL TO COOPER CAT# 5520. PROVIDE TERMINATION AT OUTLET AND COMMUNICATION BACKBOARD.
[Symbol]	CABLE TV OUTLET. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ANY ROUGH-IN. PROVIDE SINGLE-GANG JUNCTION BOX. PROVIDE 3/4" CONDUIT UP IN WALL TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE CONDUIT BUSHINGS. PROVIDE 1-CATV COAX CABLE BACK TO COMMUNICATIONS BACKBOARD. PROVIDE TERMINATION AT OUTLET AND COMMUNICATION BACKBOARD.
[Symbol]	16 GAUGE WIRE, BELDEN 8471, 2 CONDUCTOR LOUD SPEAKER WIRE OR EQUAL AS APPROVED BY OWNER.
[Symbol]	CEILING MOUNTED SPEAKER BOGEN MODEL SB6T72SPGBWRVK OR EQUAL AS APPROVED BY OWNER.
[Symbol]	WALL-MOUNTED VOLUME CONTROL BOGEN MODEL AT-10A WITH J-BOX OR EQUAL AS APPROVED BY OWNER.
[Symbol]	WALL-MOUNTED SPEAKER BOGEN MODEL WB1EZ WALL BAFFLE SPEAKER OR EQUAL AS APPROVED BY OWNER.
[Symbol]	WALL-MOUNTED SPEAKER BOGAN MODEL SPT15A OR EQUAL AS APPROVED BY OWNER.
[Symbol]	FIRE ALARM SYSTEM PULL STATION - SEMI FLUSH MOUNTED 48" A.F.F. TO CENTER UNLESS NOTED OTHERWISE. PROVIDE CLEAR PULL STATION LIFT COVER GUARD WITH STOPPER I.
[Symbol]	FIRE ALARM SYSTEM AUDIO / VISUAL DEVICE SEMI FLUSH WALL MOUNTED 80" A.F.F. OR 6" FROM BOTTOM OF CEILING WHICHEVER IS LOWER. STROBES SHALL BE 75cd UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON AREAS OR CORRIDORS SHALL BE SYNCHRONIZED.
[Symbol]	FIRE ALARM SYSTEM VISUAL DEVICE SEMI FLUSH WALL MOUNTED 80" A.F.F. OR 6" FROM BOTTOM OF CEILING WHICHEVER IS LOWER. STROBES SHALL BE 75cd UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON AREAS OR CORRIDORS SHALL BE SYNCHRONIZED.
[Symbol]	CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE DETECTOR.
[Symbol]	FIRE ALARM SYSTEM DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR COMPLETE WITH HOUSING AND AIR SAMPLING TUBES. "S" DENOTES DETECTOR IN SUPPLY DUCT, "R" DENOTES DETECTOR IN RETURN DUCT.
[Symbol]	FIRE ALARM SYSTEM FAN SHUTDOWN RELAY - MOUNTED AT EQUIPMENT.
[Symbol]	FIRE ALARM CONTROL PANEL.
[Symbol]	FIRE ALARM REMOTE ANNUNCIATOR.

SYMBOLS NOTES:

- ALL OUTLETS ARE TO BE FLUSH MOUNTED.
- MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
- ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING.
- ALL MULTI-GANG DEVICES SHALL USE A COMMON COVER PLATE
- ALL DEVICES (i.e. SWITCHES, RECEPTACLES, ETC.) SHALL BE INORY AND THEIR COVER PLATES SHALL BE 302 STAINLESS.
- AFF INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.
- AFG INDICATES MOUNTING HEIGHT ABOVE FINISHED GRADE.

H.M. YONGE & ASSOCIATES, INC.
-CONSULTING ENGINEERS-

FORT WALTON BEACH FIRE & RESCUE
FIRE TRAINING BUILDING
FT. WALTON BEACH, FLORIDA

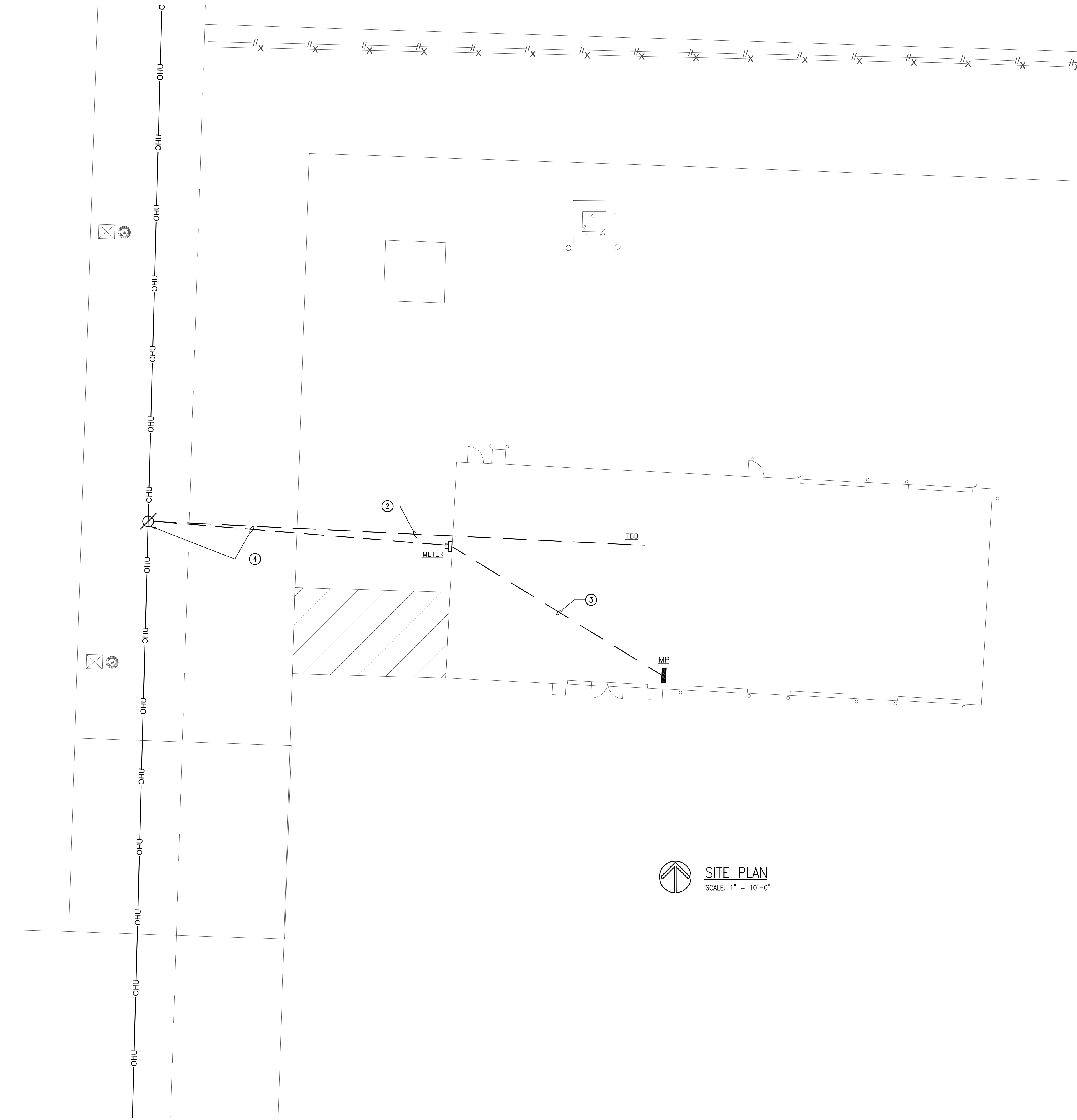
LEGEND, SCHEDULES, SINGLE LINE

REVISIONS:
NO. DATE DESCRIPTION

SCALE: 1/4" = 1'-0"
DRAWN BY: R. THOMAS
CHECKED BY: P. HUNGER
DATE: 06/22/17
PROJECT NO. 17-055

CONSULTANTS SEAL
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No. 1387
P. HUNGER

SHEET NO. **E0.1**



SITE PLAN KEY NOTES:

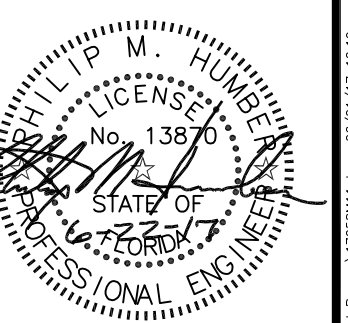
- ① NEW RISER POLE AND GUY PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE OVERHEAD CONNECTION WITH LOCAL UTILITY PRIOR TO RISER POLE INSTALLATION OR SERVICE CONDUIT ROUGH-IN.
- ② PROVIDE TWO(2) 2-1/2" CONDUITS WITH PULL STRING FROM UTILITY POLE FOR NEW CATV/TELEPHONE SERVICE. ROUTE CONDUITS UNDERGROUND TO COMMUNICATIONS BACK BOARD. STUB CONDUITS 6" AFF. INSTALLATION REQUIREMENTS SHALL BE COORDINATED WITH LOCAL SERVING UTILITY PRIOR TO ANY ROUGH-IN.
- ③ NEW UNDERGROUND ELECTRICAL SERVICE. SEE RISER DIAGRAM.
- ④ NEW TRANSFORMER POLE AND UNDERGROUND SERVICE PROVIDED AND INSTALLED BY LOCAL UTILITY, AT CONTRACTOR'S EXPENSE. SEE SINGLE LINE. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO BEGINNING ANY WORK.


SITE PLAN
 SCALE: 1" = 10'-0"

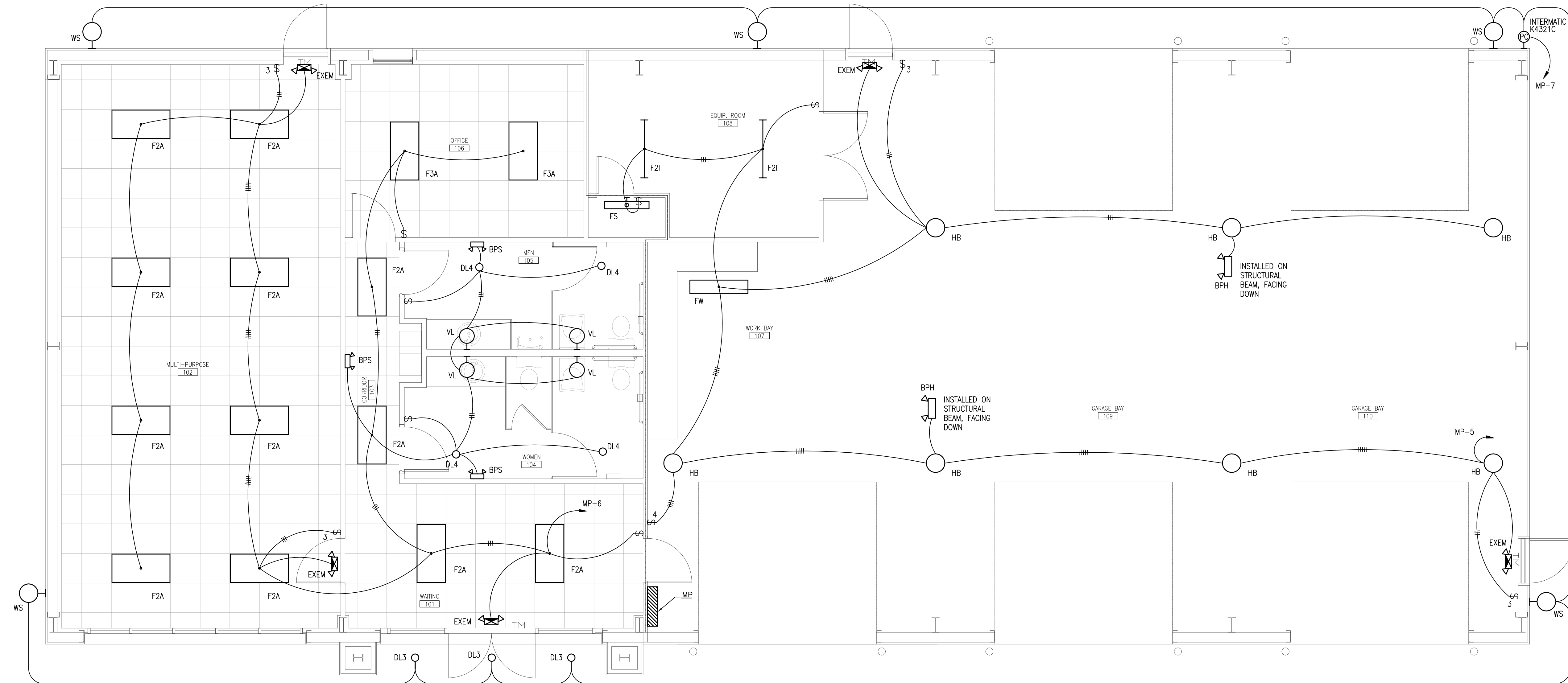
REVISIONS:	
NO.	DESCRIPTION

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 -CONSULTING ENGINEERS-
 102 EAST GARDEN STREET
 PENSACOLA, FLORIDA 32502
 PHONE: (850) 434-2661
REGISTERED PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NO. 13844
 ** MECH. ENG.: HENRIQUE M. YONGE, P.E. - FLA. REG. NO. 25293, 25294, 25295, 25296, 25297, 25298, 25299, 25300, 25301, 25302, 25303, 25304, 25305, 25306, 25307, 25308, 25309, 25310, 25311, 25312, 25313, 25314, 25315, 25316, 25317, 25318, 25319, 25320, 25321, 25322, 25323, 25324, 25325, 25326, 25327, 25328, 25329, 25330, 25331, 25332, 25333, 25334, 25335, 25336, 25337, 25338, 25339, 25340, 25341, 25342, 25343, 25344, 25345, 25346, 25347, 25348, 25349, 25350, 25351, 25352, 25353, 25354, 25355, 25356, 25357, 25358, 25359, 25360, 25361, 25362, 25363, 25364, 25365, 25366, 25367, 25368, 25369, 25370, 25371, 25372, 25373, 25374, 25375, 25376, 25377, 25378, 25379, 25380, 25381, 25382, 25383, 25384, 25385, 25386, 25387, 25388, 25389, 25390, 25391, 25392, 25393, 25394, 25395, 25396, 25397, 25398, 25399, 25400, 25401, 25402, 25403, 25404, 25405, 25406, 25407, 25408, 25409, 25410, 25411, 25412, 25413, 25414, 25415, 25416, 25417, 25418, 25419, 25420, 25421, 25422, 25423, 25424, 25425, 25426, 25427, 25428, 25429, 25430, 25431, 25432, 25433, 25434, 25435, 25436, 25437, 25438, 25439, 25440, 25441, 25442, 25443, 25444, 25445, 25446, 25447, 25448, 25449, 25450, 25451, 25452, 25453, 25454, 25455, 25456, 25457, 25458, 25459, 25460, 25461, 25462, 25463, 25464, 25465, 25466, 25467, 25468, 25469, 25470, 25471, 25472, 25473, 25474, 25475, 25476, 25477, 25478, 25479, 25480, 25481, 25482, 25483, 25484, 25485, 25486, 25487, 25488, 25489, 25490, 25491, 25492, 25493, 25494, 25495, 25496, 25497, 25498, 25499, 25500, 25501, 25502, 25503, 25504, 25505, 25506, 25507, 25508, 25509, 25510, 25511, 25512, 25513, 25514, 25515, 25516, 25517, 25518, 25519, 25520, 25521, 25522, 25523, 25524, 25525, 25526, 25527, 25528, 25529, 25530, 25531, 25532, 25533, 25534, 25535, 25536, 25537, 25538, 25539, 25540, 25541, 25542, 25543, 25544, 25545, 25546, 25547, 25548, 25549, 25550, 25551, 25552, 25553, 25554, 25555, 25556, 25557, 25558, 25559, 25560, 25561, 25562, 25563, 25564, 25565, 25566, 25567, 25568, 25569, 25570, 25571, 25572, 25573, 25574, 25575, 25576, 25577, 25578, 25579, 25580, 25581, 25582, 25583, 25584, 25585, 25586, 25587, 25588, 25589, 25590, 25591, 25592, 25593, 25594, 25595, 25596, 25597, 25598, 25599, 25600, 25601, 25602, 25603, 25604, 25605, 25606, 25607, 25608, 25609, 25610, 25611, 25612, 25613, 25614, 25615, 25616, 25617, 25618, 25619, 25620, 25621, 25622, 25623, 25624, 25625, 25626, 25627, 25628, 25629, 25630, 25631, 25632, 25633, 25634, 25635, 25636, 25637, 25638, 25639, 25640, 25641, 25642, 25643, 25644, 25645, 25646, 25647, 25648, 25649, 25650, 25651, 25652, 25653, 25654, 25655, 25656, 25657, 25658, 25659, 25660, 25661, 25662, 25663, 25664, 25665, 25666, 25667, 25668, 25669, 25670, 25671, 25672, 25673, 25674, 25675, 25676, 25677, 25678, 25679, 25680, 25681, 25682, 25683, 25684, 25685, 25686, 25687, 25688, 25689, 25690, 25691, 25692, 25693, 25694, 25695, 25696, 25697, 25698, 25699, 25700, 25701, 25702, 25703, 25704, 25705, 25706, 25707, 25708, 25709, 25710, 25711, 25712, 25713, 25714, 25715, 25716, 25717, 25718, 25719, 25720, 25721, 25722, 25723, 25724, 25725, 25726, 25727, 25728, 25729, 25730, 25731, 25732, 25733, 25734, 25735, 25736, 25737, 25738, 25739, 25740, 25741, 25742, 25743, 25744, 25745, 25746, 25747, 25748, 25749, 25750, 25751, 25752, 25753, 25754, 25755, 25756, 25757, 25758, 25759, 25760, 25761, 25762, 25763, 25764, 25765, 25766, 25767, 25768, 25769, 25770, 25771, 25772, 25773, 25774, 25775, 25776, 25777, 25778, 25779, 25780, 25781, 25782, 25783, 25784, 25785, 25786, 25787, 25788, 25789, 25790, 25791, 25792, 25793, 25794, 25795, 25796, 25797, 25798, 25799, 25800, 25801, 25802, 25803, 25804, 25805, 25806, 25807, 25808, 25809, 25810, 25811, 25812, 25813, 25814, 25815, 25816, 25817, 25818, 25819, 25820, 25821, 25822, 25823, 25824, 25825, 25826, 25827, 25828, 25829, 25830, 25831, 25832, 25833, 25834, 25835, 25836, 25837, 25838, 25839, 25840, 25841, 25842, 25843, 25844, 25845, 25846, 25847, 25848, 25849, 25850, 25851, 25852, 25853, 25854, 25855, 25856, 25857, 25858, 25859, 25860, 25861, 25862, 25863, 25864, 25865, 25866, 25867, 25868, 25869, 25870, 25871, 25872, 25873, 25874, 25875, 25876, 25877, 25878, 25879, 25880, 25881, 25882, 25883, 25884, 25885, 25886, 25887, 25888, 25889, 25890, 25891, 25892, 25893, 25894, 25895, 25896, 25897, 25898, 25899, 25900, 25901, 25902, 25903, 25904, 25905, 25906, 25907, 25908, 25909, 25910, 25911, 25912, 25913, 25914, 25915, 25916, 25917, 25918, 25919, 25920, 25921, 25922, 25923, 25924, 25925, 25926, 25927, 25928, 25929, 25930, 25931, 25932, 25933, 25934, 25935, 25936, 25937, 25938, 25939, 25940, 25941, 25942, 25943, 25944, 25945, 25946, 25947, 25948, 25949, 25950, 25951, 25952, 25953, 25954, 25955, 25956, 25957, 25958, 25959, 25960, 25961, 25962, 25963, 25964, 25965, 25966, 25967, 25968, 25969, 25970, 25971, 25972, 25973, 25974, 25975, 25976, 25977, 25978, 25979, 25980, 25981, 25982, 25983, 25984, 25985, 25986, 25987, 25988, 25989, 25990, 25991, 25992, 25993, 25994, 25995, 25996, 25997, 25998, 25999, 26000

PROJECT: FORT WALTON BEACH FIRE & RESCUE FIRE TRAINING BUILDING FT. WALTON BEACH, FLORIDA
SHEET TITLE: SITE PLAN
SCALE: 1/4" = 1'-0"
DRAWN BY: R. THOMAS
CHECKED BY: P. HUNGER
DATE: 06/22/17
PROJECT NO.: 17-069

CONSULTANTS SEAL


SHEET NO.
E1.0



LIGHTING CONTROLS GENERAL NOTE
 IN ACCORDANCE WITH THE FECC 2014 C405.2.2 EXCEPTION #4
 THIS FACILITY IS INTENDED FOR CONTINUOUS OPERATION

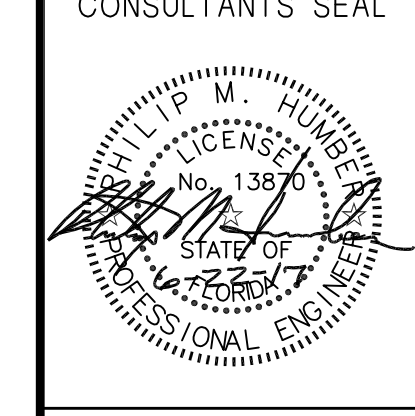
LIGHTING FLOOR PLAN
 SCALE: 1/4" = 1'-0"

NO.	DATE	DESCRIPTION

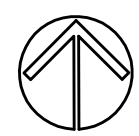
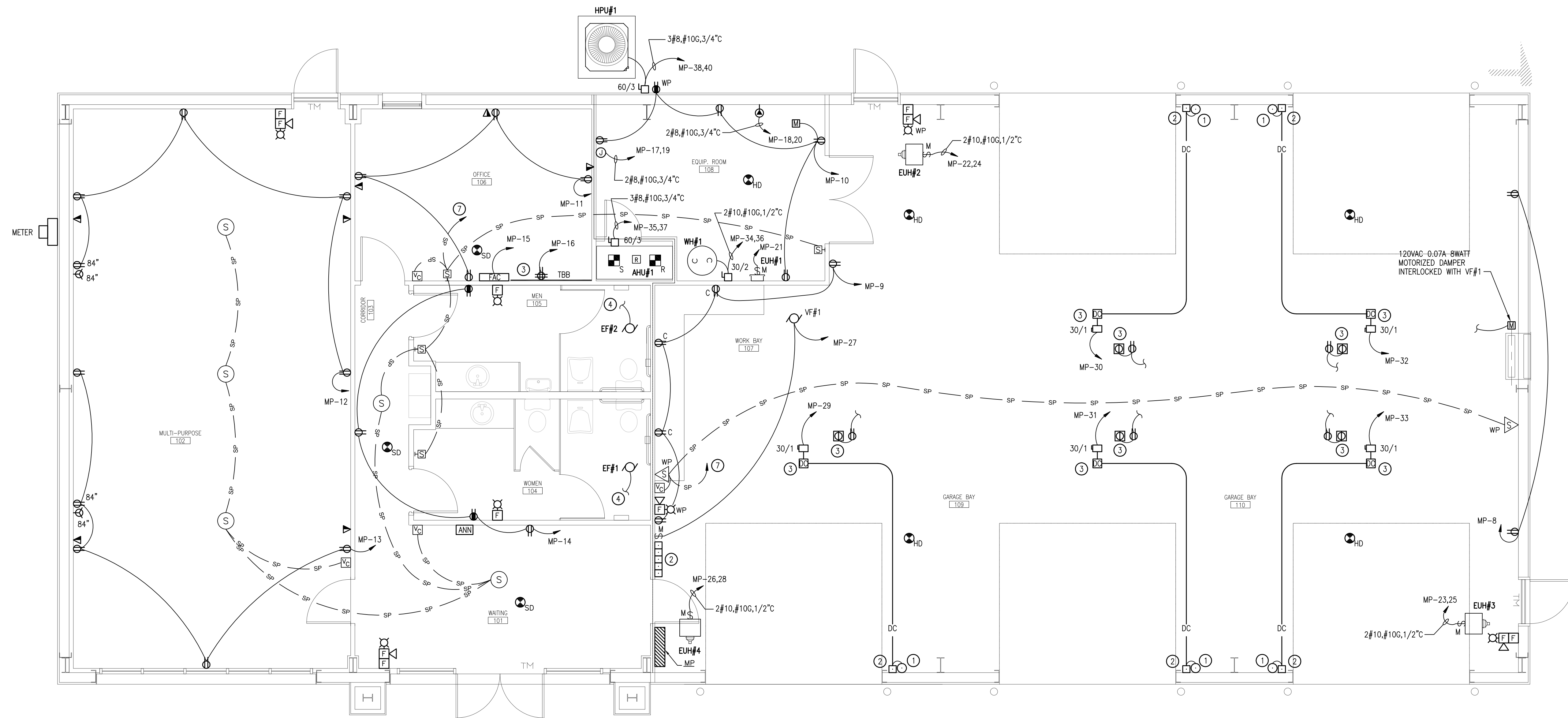
H.M. YONGE & ASSOCIATES, INC.
-CONSULTING ENGINEERS-
 102 EAST GARDEN STREET
 PENSACOLA, FLORIDA 32502
 PHONE: (850) 434-2661
 ** MECH. ENG.: HOWARD M. YONGE, P.E. - FLA. REG. NO. 66922**

PROJECT: FORT WALTON BEACH FIRE & RESCUE
 FIRE TRAINING BUILDING
 FT. WALTON BEACH, FLORIDA
SHEET TITLE: LIGHTING FLOOR PLAN

SCALE:	1/4" = 1'-0"
DRAWN BY:	R. THOMAS
CHECKED BY:	P. HUMBER
DATE:	06/22/17
PROJECT NO.	17-069



CONSULTANTS SEAL
 SHEET NO.
E1.1



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

ELECTRICAL PLAN KEY NOTES:

- ① DOOR SIGNAL LIGHTS (INDICATES WHEN DOOR IS FULLY OPEN) MOUNT AS REQUIRED BY DOOR VENDOR.
- ② BAY DOOR CONTROLLER. COORDINATE EXACT LOCATION PRIOR TO ANY ROUGH-IN.
- ③ BAY DOOR OPERATOR. COORDINATE EXACT LOCATION PRIOR TO ANY ROUGH-IN.
- ④ THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL A 3/4"x8' PLYWOOD BACKBOARD, LENGTH AS REQUIRED BY COMMUNICATIONS CONTRACTOR. PROVIDE 6" CLEARANCE ABOVE FLOOR. ALL POWER AND DATA RECEPTACLES SHALL BE FLUSH WITH BACKBOARD. PROVIDE #6 GROUND IN 3/4" EMT CONDUIT FROM MAIN ELECTRICAL PANEL TO BACKBOARD. COIL 10' SLACK AT BACKBOARD. PROVIDE GROUND BUS BAR (HARGER GBI SERIES) MOUNTED 12" AFF. COORDINATE EXACT LOCATION OF THE GROUND BUS BAR WITH COMMUNICATIONS CONTRACTOR PRIOR TO ANY ROUGH-IN.
- ⑤ AUTO RETRACTABLE PLUG REEL KUSSMAUL L4545-12-33 (OR EQUAL AS APPROVED BY OWNER) AND SERVING DUPLEX RECEPTACLE MOUNTED TO STRUCTURAL BEAM, COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION. PROVIDE ALL REQUIRED CONNECTIONS TO OWNER FURNISHED CHARGING SYSTEM. COORDINATE CHARGING SYSTEM REQUIREMENTS WITH OWNER PRIOR TO ORDERING. COORDINATE LOCATION OF CHARGING SYSTEM WITH OWNER PRIOR TO INSTALLATION.
- ⑥ PROVIDE POWER CONNECTION TO LOCAL LIGHTING CIRCUIT. EXHAUST FAN SHALL BE CONTROLLED VIA LOCAL LIGHTING SWITCH.
- ⑦ TO SPEAKER SYSTEM HEADEND EQUIPMENT. HEADEND EQUIPMENT BY OWNER. COORDINATE REQUIREMENTS WITH OWNER.

REVISIONS:

NO.	DATE	DESCRIPTION

H.M. YONGE & ASSOCIATES, INC.
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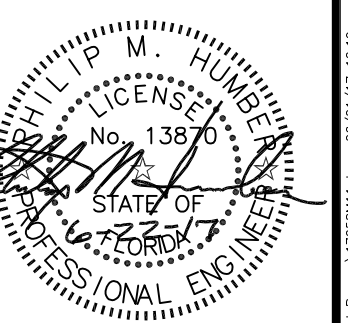
FORT WALTON BEACH FIRE & RESCUE
FIRE TRAINING BUILDING
FT. WALTON BEACH, FLORIDA

ELECTRICAL FLOOR PLAN

PROJECT:

SCALE:	1/4" = 1'-0"
DRAWN BY:	R. THOMAS
CHECKED BY:	P. HUMBER
DATE:	06/22/17
PROJECT NO.:	17-099

CONSULTANTS SEAL

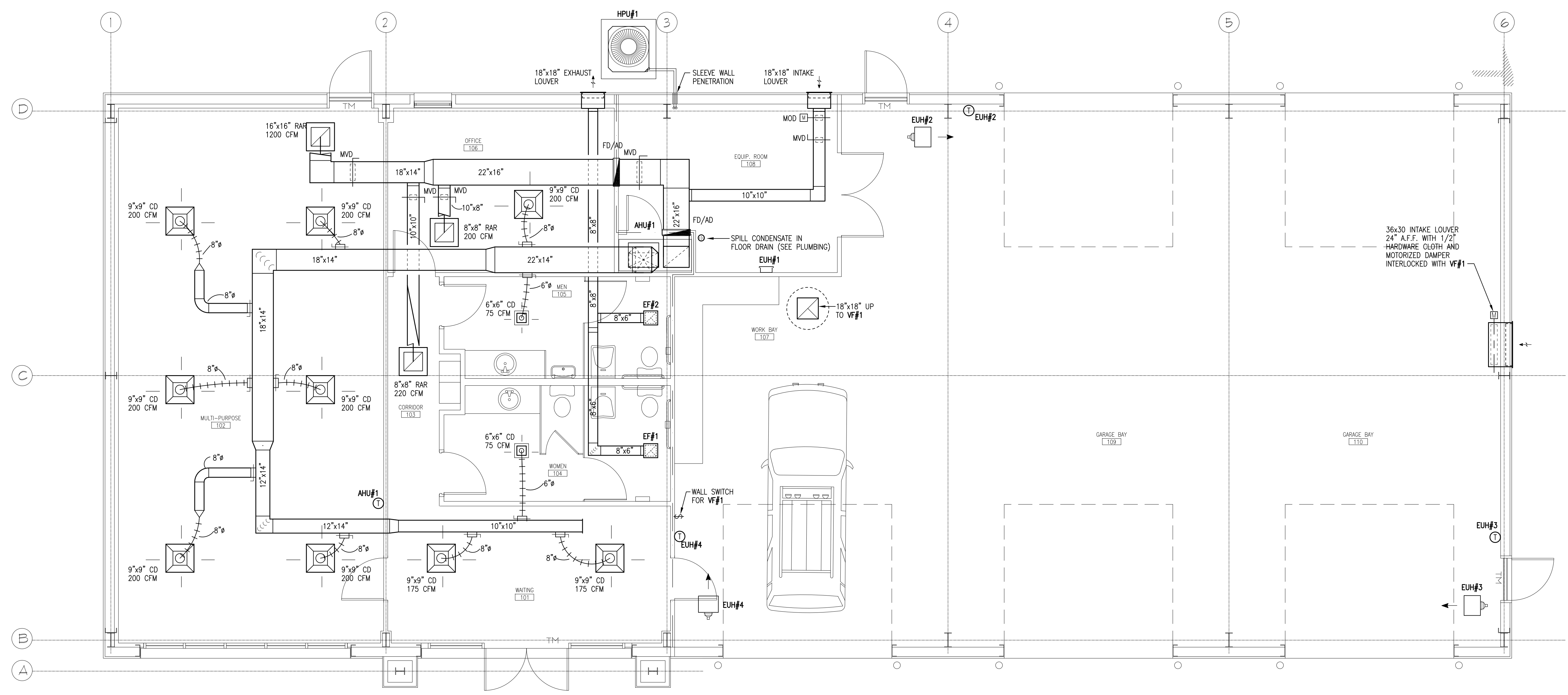


SHEET NO.

E1.2

HVAC GENERAL NOTES

- OUTDOOR HEAT PUMP UNIT SHALL BE INSTALLED ON A 6" HIGH CONCRETE HOUSEKEEPING PAD. INSTALL 1" THICK RUBBER VIBRATION ISOLATION PADS UNDER THE UNIT. BOLT UNIT TO CONCRETE PAD WITH A MINIMUM OF TWO BOLTS PER SIDE.



NO.	DATE	DESCRIPTION

H.M. YONGE & ASSOCIATES, INC.
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 PHONE: (850) 434-2661
REGISTERED PROFESSIONAL ENGINEER LICENSE NO. 58047
 ** MECH. ENG. - HOWARD M. YONGE, P.E. - FA. REG. NO. 52294 - MECH. ENG. - TIMOTHY J. MITCHELL, P.E. - FA. REG. NO. 68792**

PROJECT: FORT WALTON BEACH FIRE & RESCUE
 FIRE TRAINING BUILDING
 FT. WALTON BEACH, FLORIDA
SHEET TITLE: HVAC FLOOR PLAN

SCALE: 1/4" = 1'-0"
 DRAWN BY: T. MITCHELL
 CHECKED BY: T. MITCHELL
 DATE: 06/22/17
 PROJECT NO. 17-089



SHEET NO.
M1.1

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

SPLIT SYSTEM AIR TO AIR HEAT PUMP UNIT SCHEDULE																																
MARK AHU/HPU#	AREA SERVED	NOMINAL TONNAGE	AHU DATA										COOLING CAPACITY @ ARI STANDARD CONDITIONS						HEATING CAPACITY @ ARI STANDARD CONDITIONS						HEAT PUMP ELECTRICAL DATA					REMARKS		
			TOTAL CFM	OA CFM	ESP	MOTOR	HEAT STEPS	HEAT KW	VOLTS	Hz	PHASE	MCA	MOP	EDB	AWB	AMBIENT	TOTAL BTU/HR	SENSIBLE BTU/HR	EDB	AWB	AMBIENT	TOTAL BTU/HR	MIN. SEER	MIN. HSPF	COMPR. RLA	OUTDOOR FAN FLA	REFRIGERANT CLASSIFICATION	VOLTS	Hz		PHASE	MCA
1	TRAINING/OFFICE	5.0	1,900	280	0.5	1.0 HP	1	9.6	240	60	3	37	40	80°F	67°F	95°F	57,500	44,400	70°F	47°F	55,000	14.0	8.2	18.1	1.3	GROUP A1	240	60	3	24	40	NOTES 1, 2

NOTES:
 1. PROVIDE MOTORIZED DAMPER IN THE OUTDOOR AIR DUCT. DAMPER SHALL BE CLOSED DURING UNOCCUPIED HOURS AND OPEN DURING OCCUPIED HOURS.
 2. OUTDOOR HEAT PUMP SHALL OPERATE AS STAGE 1 HEATING. ELECTRIC STRIP HEAT SHALL OPERATE AS STAGE 2 HEATING AND DEFROST CYCLE. DURING STAGE 2 HEATING THE OUTDOOR HEAT PUMP UNIT AND THE ELECTRIC HEAT SHALL OPERATE SIMULTANEOUSLY.

ELECTRIC UNIT HEATER SCHEDULE									
MARK EUH#	AREA SERVED	CFM	HEATING CAPACITY		ELECTRICAL DATA			REMARKS	
			INPUT KW	OUTPUT BTUH	VOLTS	Hz	PHASE		AMPS
1	EQUIPMENT 108	100	1.5 kW	5,120	120	60	1	12.5	NOTES 4, 5
2	GARAGE 109	400	5.0 kW	17,000	240	60	3	18.1	NOTES 1, 2, 3
3	GARAGE 110	400	5.0 kW	17,000	240	60	3	18.1	NOTES 1, 2, 3
4	WORK 107	400	5.0 kW	17,000	240	60	3	18.1	NOTES 1, 2, 3

NOTES:
 1. PROVIDE WITH LOW VOLTAGE REMOTE THERMOSTAT.
 2. PROVIDE WITH MOUNTING BRACKET.
 3. PROVIDE WITH DISCONNECT KIT.
 4. PROVIDE WITH INTEGRAL THERMOSTAT.
 5. PROVIDE WITH INTEGRAL DISCONNECT.

FAN SCHEDULE													
MARK	TOTAL CFM	TSP IN WC	MAX RPM	TYPE DRIVE	TYPE FAN	INTERLOCK WITH	MOTOR HP/WATTS	MAX SONES	ELECTRICAL DATA			FAN SERVICE	REMARKS
									VOLTS	Hz	PHASE		
EF#1	100	0.50	1030	DIRECT	CEILING MOUNTED	LIGHT SWITCH	81 W	3.0	120	60	1	WOMEN'S 104	NOTES 1, 2
EF#2	150	0.50	1030	DIRECT	CEILING MOUNTED	LIGHT SWITCH	81 W	3.0	120	60	1	MEN'S 105	NOTES 1, 2
VF#1	2,500	0.375	785	DIRECT	ROOF MOUNTED	WALL SWITCH	3/4 HP	8.2	120	60	1	WORK/GARAGE 107, 109, 110	NOTES 1, 2, 3

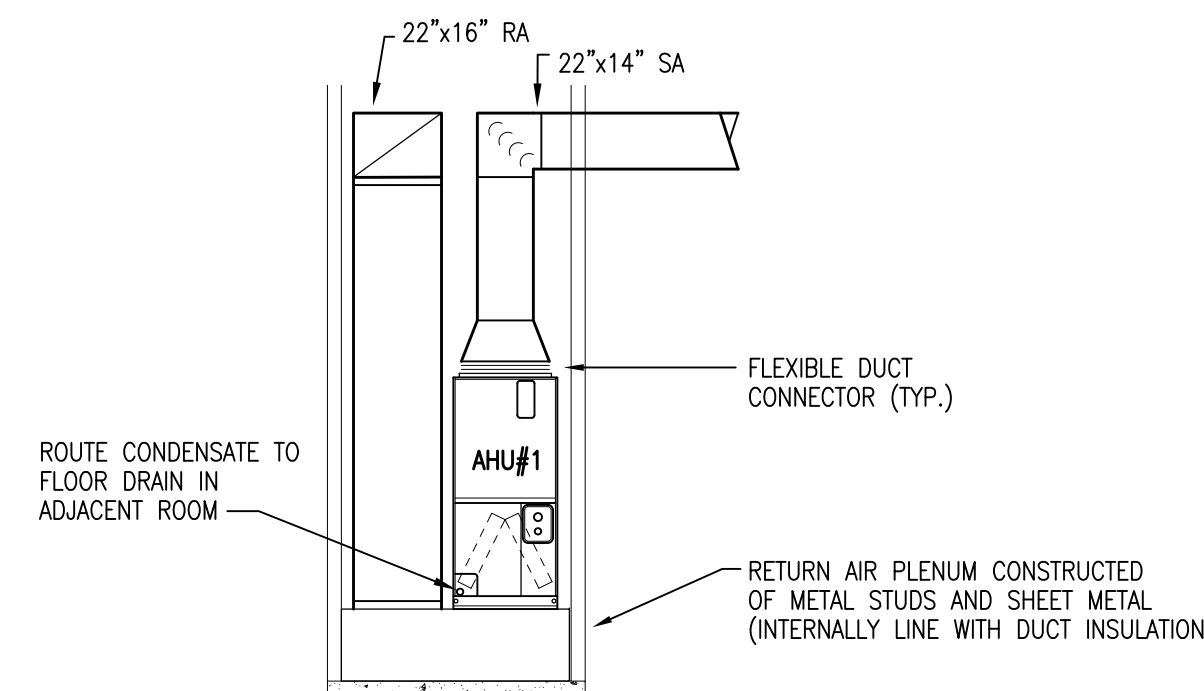
NOTES:
 1. PROVIDE WITH SPEED CONTROLLER.
 2. PROVIDE WITH GRAVITY BACK DRAFT DAMPER.
 3. PROVIDE HIGH WIND RATED FAN.

MECHANICAL LEGEND:

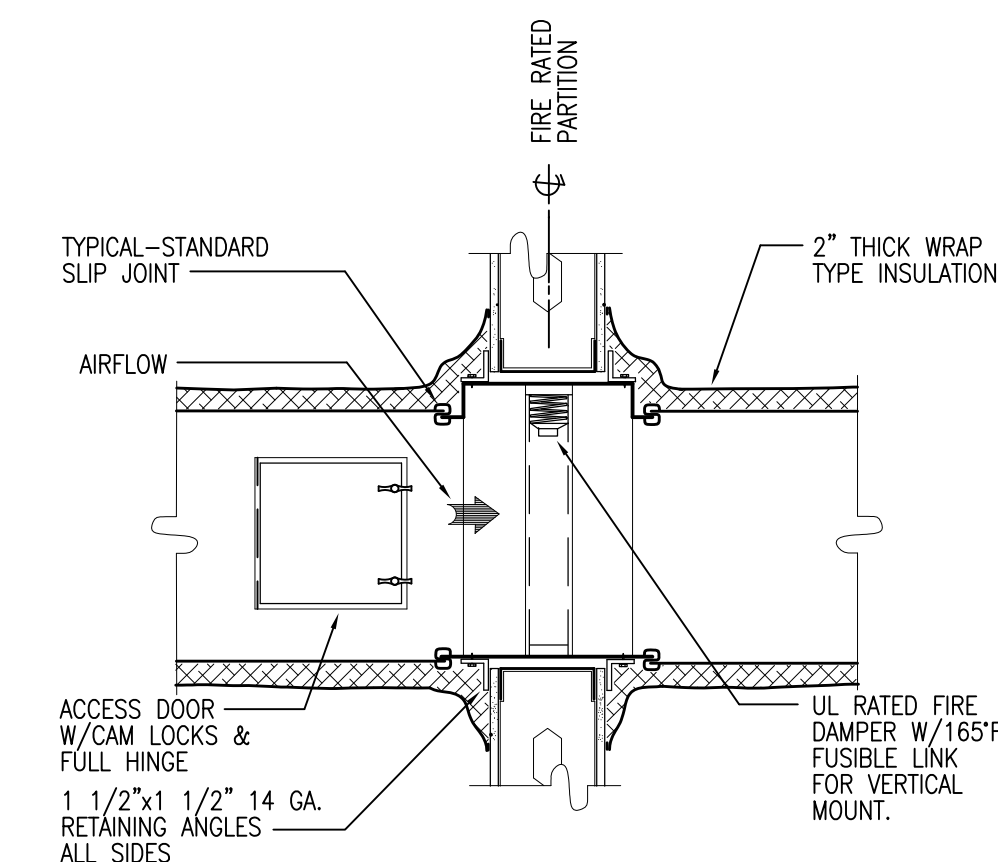
	THERMOSTAT/SENSOR		HPU	HEAT PUMP UNIT	
	90° ELBOW WITH TURNING VANES		MVD	MANUAL VOLUME DAMPER	
	SPIN-IN TAP FITTING W/SCOOP & DAMPER		OA	OUTDOOR AIR	
	METAL DUCT TO FLEX DUCT TRANSITION		OBD	OPPOSED BLADE DAMPER	
	SUPPLY DUCT IN SECTION	AHU	AIR HANDLING UNIT	RA	RETURN AIR
	RETURN AIR DUCT IN SECTION	CD	CEILING DIFFUSER WITH OBD	RAR	RETURN REGISTER WITH OBD
	CEILING DIFFUSER	CRD	CEILING RADIATION DAMPER	SA	SUPPLY AIR
	RETURN AIR REGISTER	CFM	CUBIC FEET PER MINUTE	SWR	SIDEWALL RETURN GRILLE
	EXHAUST AIR REGISTER	CU	CONDENSING UNIT	TC	TRANSFER GRILLE
	CEILING MOUNTED EXHAUST FAN	EA	EXHAUST AIR	VF	VENTILATION FAN
		EF	EXHAUST FAN		

MECHANICAL SPECIFICATIONS

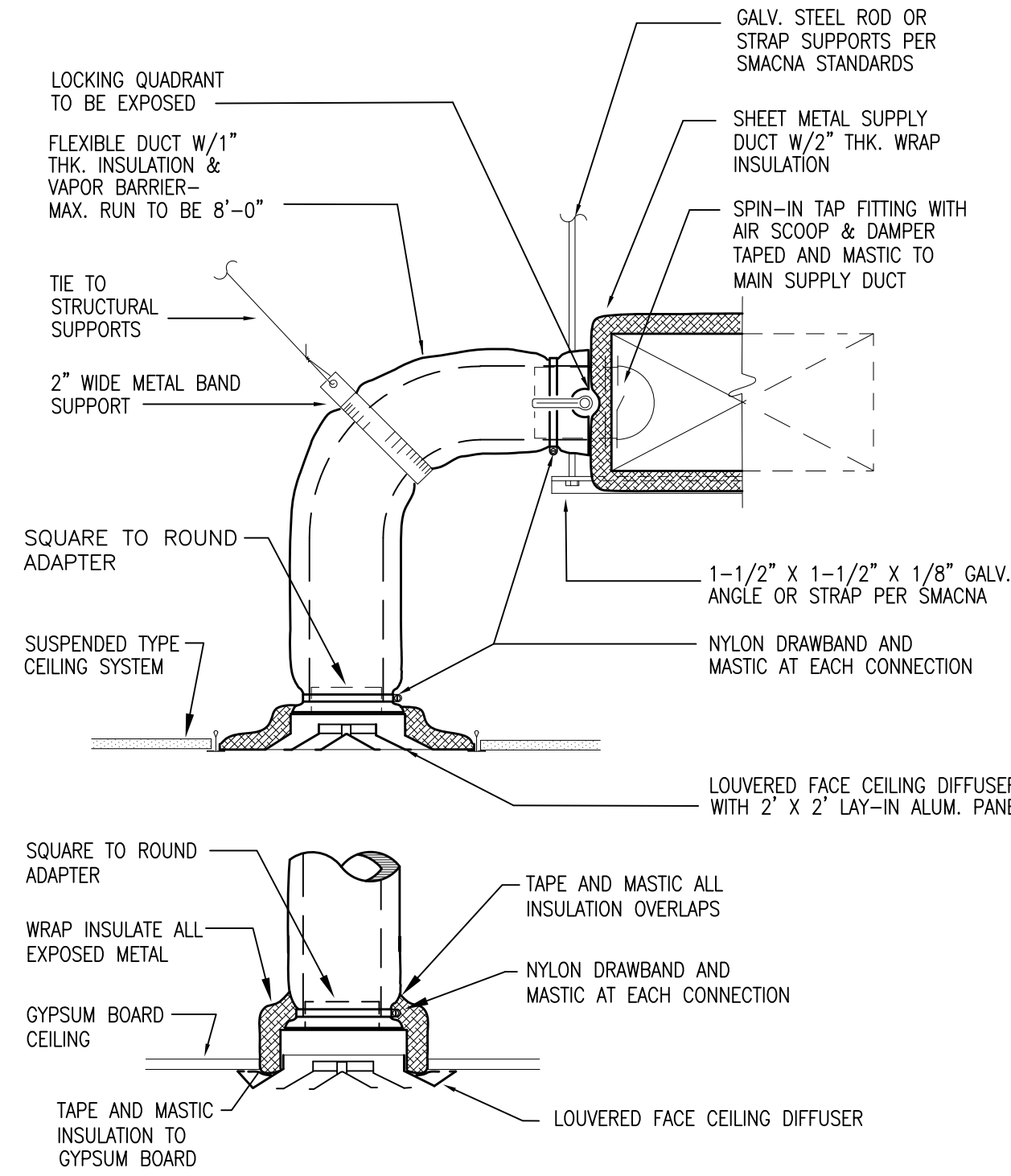
DUCTWORK SHALL BE G90 GALVANIZED STEEL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS.
 SUPPLY, RETURN, AND EXHAUST DUCT SHALL BE INSULATED WITH 2" THICK, 1 LB DENSITY DUCT WRAP (INSTALLED R=6) WITH FOIL FACE. INSULATION SHALL HAVE A MAXIMUM 25/50 FLAME/SMOKE RATING.
 FLEXIBLE DUCTWORK SHALL NOT EXCEED 8' IN LENGTH, BE EQUAL TO 1"-1LB. DENSITY INSULATION WITH METALIZED FILM VAPOR BARRIER, AND CONFORM TO UL-181 AS A CLASS 1 DUCT FOR INSTALLATION IN A RETURN AIR TYPE FLENUM.
 REFRIGERANT PIPING SHALL BE ACR DRIED AND CAPPED COPPER TUBING. INSULATE SUCTION LINE WITH 3/4" WALL FLEXIBLE ELASTOMERIC PIPE COVERING. INSULATION EXPOSED TO WEATHER SHALL BE PAINTED WITH TWO (2) COATS OF ACRYLIC PAINT.
 CONDENSATE DRAIN PIPE SHALL BE SCHEDULE 40 DWV-PVC WITH GLUED JOINTS. INSULATE PIPE WITH 1" FLEXIBLE CLOSED CELL PIPE INSULATION (ARMAFLEX). MAXIMUM HANGER SPACING IS 6 FEET.
 SPLIT SYSTEM HEAT PUMP UNITS SHALL BE EQUAL TO TRANE.
 EXHAUST FANS SHALL BE EQUAL TO GREENHECK.
 ELECTRIC UNIT HEATERS SHALL BE EQUAL TO MARKEL.
 THERMOSTATS SHALL BE WALL MOUNTED (48" A.F.F.) 7-DAY PROGRAMMABLE TYPE.
 CEILING DIFFUSERS SHALL BE LOUVERED FACE TYPE, ALL ALUMINUM EQUAL TO TITUS MODEL TDC-AA.
 RETURN AND TRANSFER AIR GRILLES SHALL BE ALL ALUMINUM EQUAL TO TITUS MODEL 50F.
 LOUVERS SHALL BE RUSKIN EME6325D WIND DRIVEN RAIN RESISTANT (FLORIDA NOA) OR EQUAL. ARCHITECT TO SELECT THE LOUVER COLOR.
 FIRE DAMPERS SHALL BE UL555 TESTED/LABELED AND SHALL BE EQUAL TO RUSKIN, TYPE "B" 1.5 HOUR DAMPERS.
 TEST AND BALANCE OF THE AIR DISTRIBUTION SHALL BE PERFORMED BY AN AGENCY CERTIFIED BY THE AABC OR NEBB. THE REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
 APPLICABLE CODES: FLORIDA MECHANICAL CODE (2014 ED. WITH ALL SUPPLEMENTS) AND THE FLORIDA BUILDING CODE (2014 ED. WITH ALL SUPPLEMENTS).



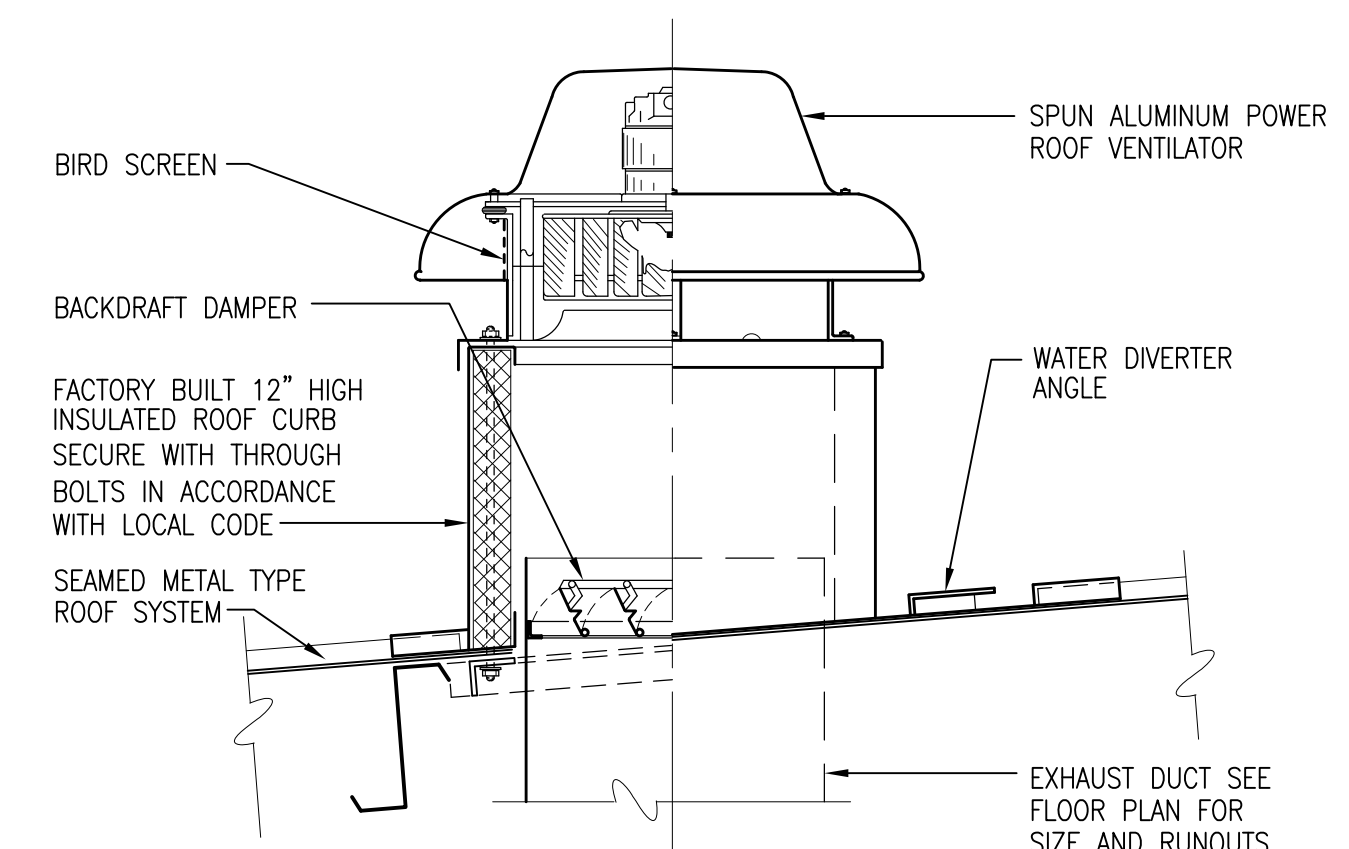
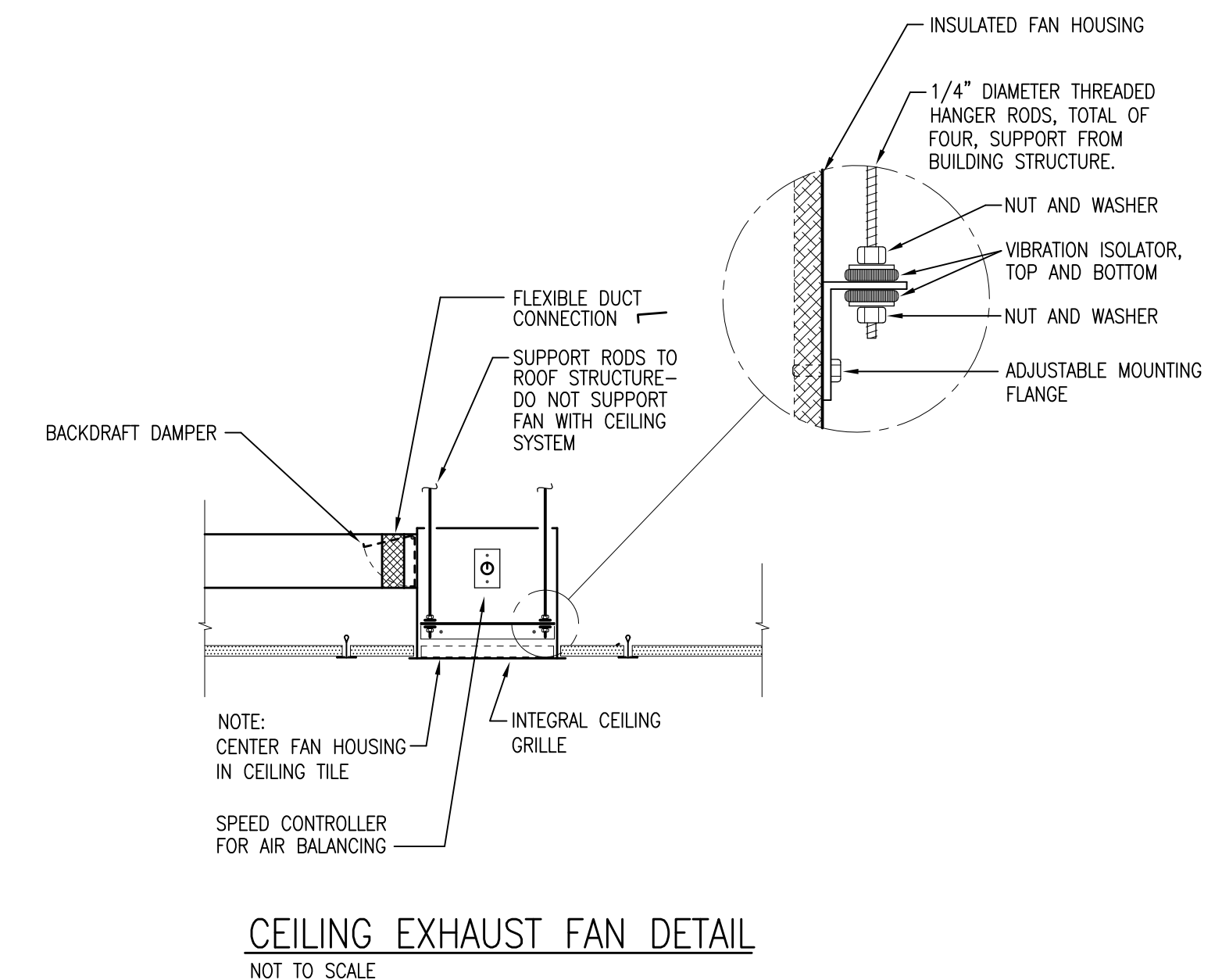
MECHANICAL ROOM SECTION
SCALE: 1/4" = 1'-0"



TYPICAL FIRE DAMPER DETAIL
NOT TO SCALE



TYPICAL CEILING DIFFUSER DETAIL
NO SCALE



NOTE 1: ATTACHMENT OF THE FAN TO THE CURB AND ATTACHMENT OF THE CURB TO THE ROOF DECK SHALL COMPLY WITH THE FAN MANUFACTURERS TESTED ATTACHMENT METHODS FOR THE 160 MPH WIND LOADING CRITERIA.
 NOTE 2: PROVIDE EXPANDED METAL OVER OPEN END OF DUCTWORK WHEN FAN INSTALLED OVER A ROOM WITH NO CEILING.

TYPICAL ROOF MOUNTED EXHAUST FAN DETAIL
NOT TO SCALE

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 ** MECH. ENG. - HOWARD M. YONGE, P.E. - FLA. REG. NO. 68792; TIMOTHY A. MITCHELL, P.E. - FLA. REG. NO. 68792*

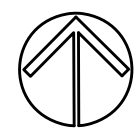
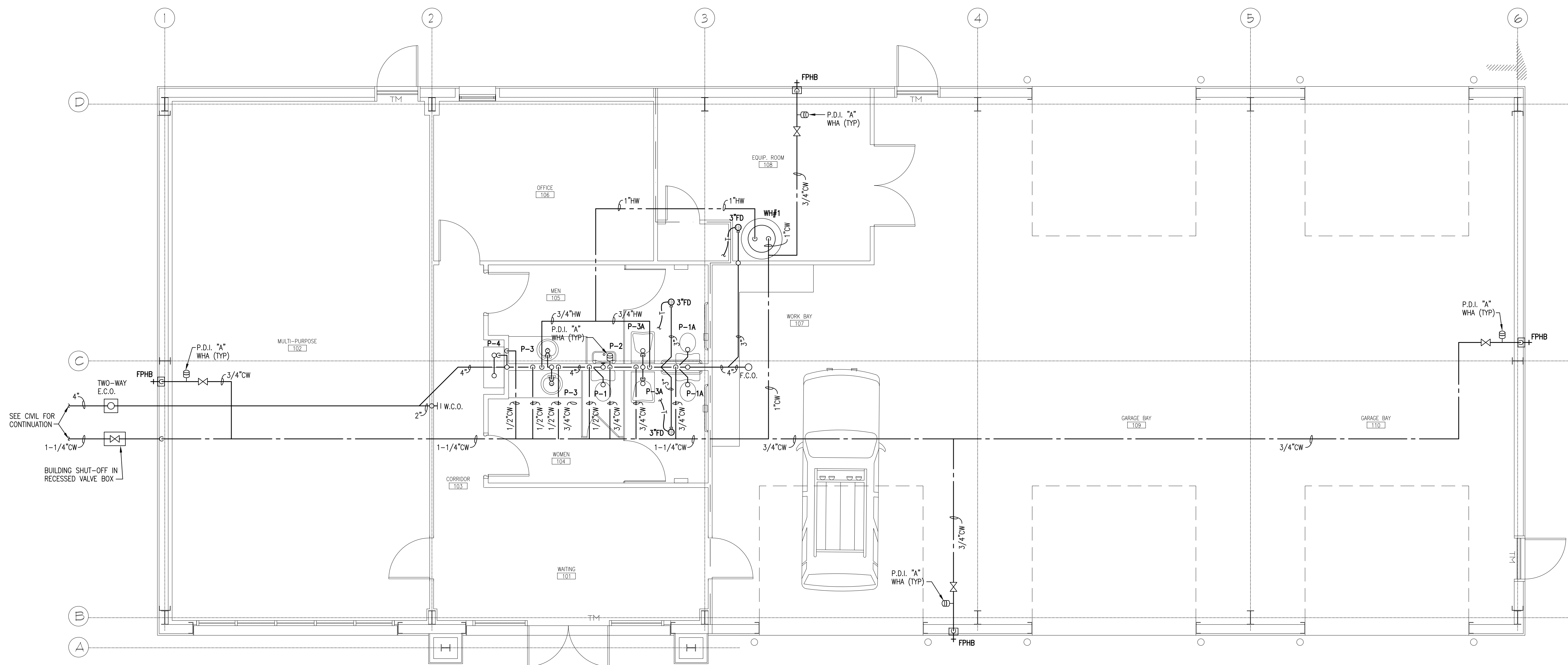
FORT WALTON BEACH FIRE & RESCUE
FIRE TRAINING BUILDING
FT. WALTON BEACH, FLORIDA

PROJECT: 1/4" = 1'-0"
 SCALE: 1/4" = 1'-0"
 DRAWN BY: T. MITCHELL
 CHECKED BY: T. MITCHELL
 DATE: 06/22/17
 PROJECT NO. 17-088

SHEET TITLE: HVAC SCHEDULES, LEGEND AND DETAILS

CONSULTANTS SEAL
 JOHN MITCHELL
 LICENSE No. 68792
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

SHEET NO. **M2.1**



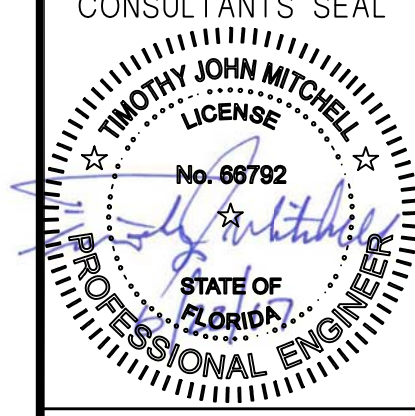
PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"

REVISIONS:	
NO.	DESCRIPTION

H.M. YONGE & ASSOCIATES, INC.
-CONSULTING ENGINEERS-
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PHONE: (850) 434-2661
* MECH. ENG. - HOWARD M. YONGE, P.E. - FL. REG. NO. 25294 * MECH. ENG. - TIMOTHY J. MITCHELL, P.E. - FLA. REG. NO. 66792 **

PROJECT: FORT WALTON BEACH FIRE & RESCUE
FIRE TRAINING BUILDING
FT. WALTON BEACH, FLORIDA
SHEET TITLE: PLUMBING FLOOR PLAN

SCALE: 1/4" = 1'-0"
DRAWN BY: T. MITCHELL
CHECKED BY: T. MITCHELL
DATE: 06/22/17
PROJECT NO. 17-089



SHEET NO.
P1.1

PLUMBING FIXTURE CONNECTION SCHEDULE					
MARK	FIXTURE	CONNECTIONS			DESCRIPTION
		WASTE	CW	HW	
P-1	WATER CLOSET	4"	1/2"	--	KOHLER K-3977, 14" HIGH ELONGATED BOWL WITH FLUSH TANK, OPEN SEAT (LESS COVER), FLEXIBLE SUPPLY AND EASTMAN QUARTER TURN WALL STOP.
P-1A	WATER CLOSET (ADA)	4"	1/2"	--	KOHLER K-3999, 17" HIGH ELONGATED BOWL WITH FLUSH TANK, OPEN SEAT (LESS COVER), FLEXIBLE SUPPLY AND EASTMAN QUARTER TURN WALL STOP.
P-2	URINAL	2	3/4"	--	KOHLER K-4991-ET TOP SPUD URINAL WITH ZURN Z6003 3/4", 0.5 GPF FLUSH VALVE AND ZURN Z1221 FLOOR SUPPORTED CARRIER.
P-3	COUNTER MOUNTED LAVATORY	1-1/4"	1/2"	1/2"	KOHLER K-2907-4, 24"x18" COUNTER MOUNTED OVAL SINK WITH T&S B-0892 RIGID GOOSENECK FAUCET (MINIMUM 5" CLEARANCE FROM DECK TO SPRAY) WITH WRIST BLADES AND GRID STRAINER. PROVIDE 1-1/2", 17-GAUGE CHROME PLATED TAIL PIECE, P-TRAP, FLEXIBLE SUPPLIES, AND EASTMAN QUARTER TURN WALL STOPS.
P-3A	LAVATORY (ADA)	1-1/4"	1/2"	1/2"	KOHLER K-2005, 21"x18" WALL HUNG SINK WITH T&S B-0892 RIGID GOOSENECK FAUCET (MINIMUM 5" CLEARANCE FROM DECK TO SPRAY) WITH WRIST BLADES AND GRID STRAINER. PROVIDE 1-1/4", 17-GAUGE CHROME PLATED TAIL PIECE, P-TRAP, FLEXIBLE SUPPLIES, EASTMAN QUARTER TURN WALL STOPS, TRAP WRAP AND ZURN Z-1231 FLOOR SUPPORTED CARRIER.
P-4	HI/LOW ELECTRIC WATER COOLER	1-1/2"	1/2"	--	BARRIER FREE, SPLIT-LEVEL, ELKAY EZSTL8LC WITH ONE (1) 17-GAUGE P-TRAP, FLEXIBLE SUPPLY, WALL STOP, AND CARRIER EQUAL TO ZURN Z-1225-1. INSTALL PER ADA REQUIREMENTS.

NOTES:
 1. ALL PLUMBING FIXTURES ARE LISTED FOR PRICING ONLY. FINAL FIXTURE SELECTIONS SHALL BE APPROVED BY THE BUILDING OWNER.
 2. PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURES AND ROUGH-IN REQUIREMENTS WITH EQUIPMENT SUPPLIER.

WATER HAMMER ARRESTOR		
PPP SIZE	FIXTURE UNITS	CROSS REF PDI
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1-1/4"	61-113	D
1-1/2"	114-154	E
2"	155-330	F

WATER HEATER SCHEDULE					
MARK	CAPACITY (GALLONS)	ELECTRICAL DATA			REMARKS
		VOLTS	PHASE	Hz KW	
WH#1	40	208	1	60 4.5	NOTES 1, 2, 3

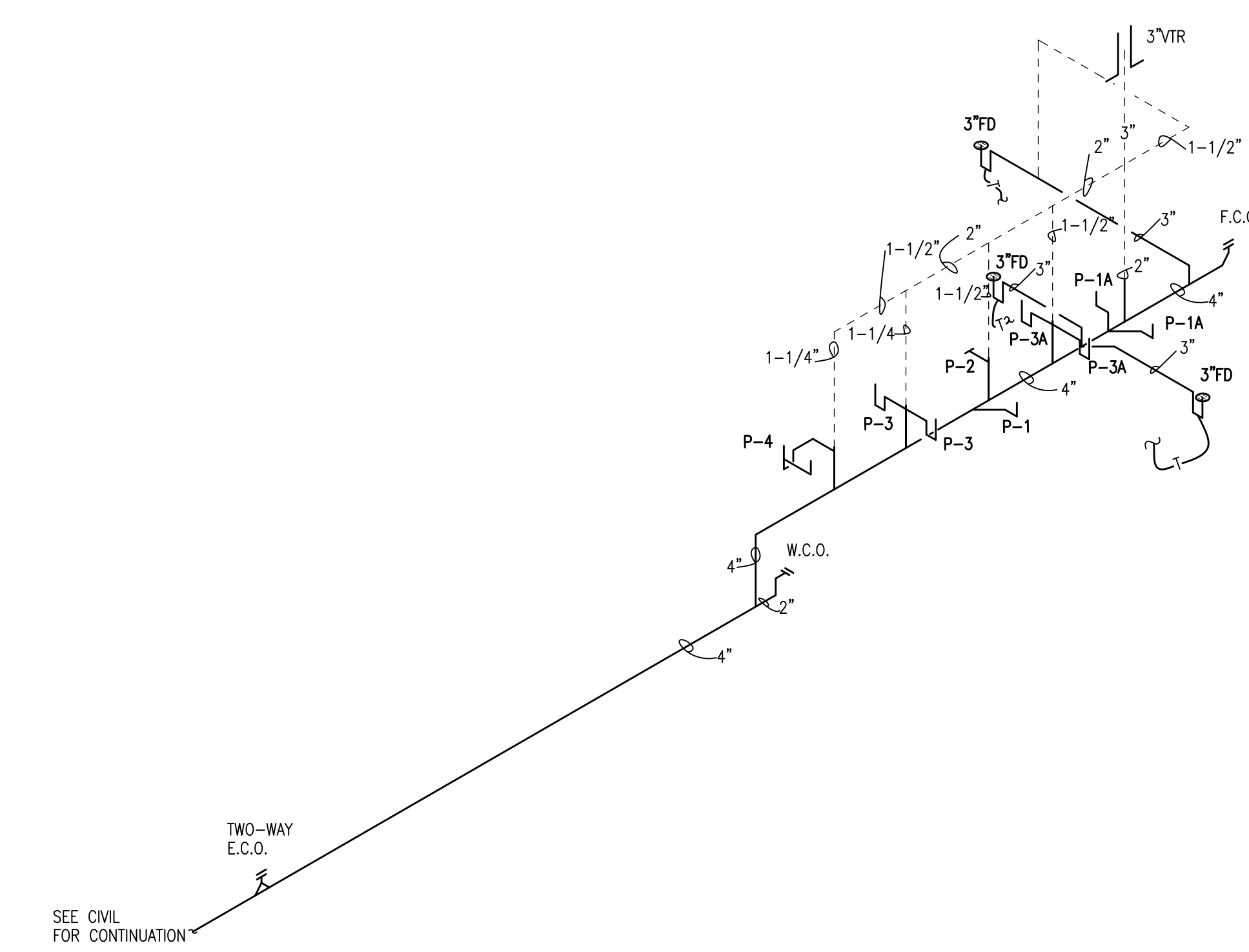
NOTES:
 1. BASIS OF DESIGN - RHEEM E40A.
 2. MINIMUM ENERGY FACTOR 0.95.
 3. SET OUTLET TEMPERATURE TO 120°F.

PLUMBING SPECIFICATIONS:

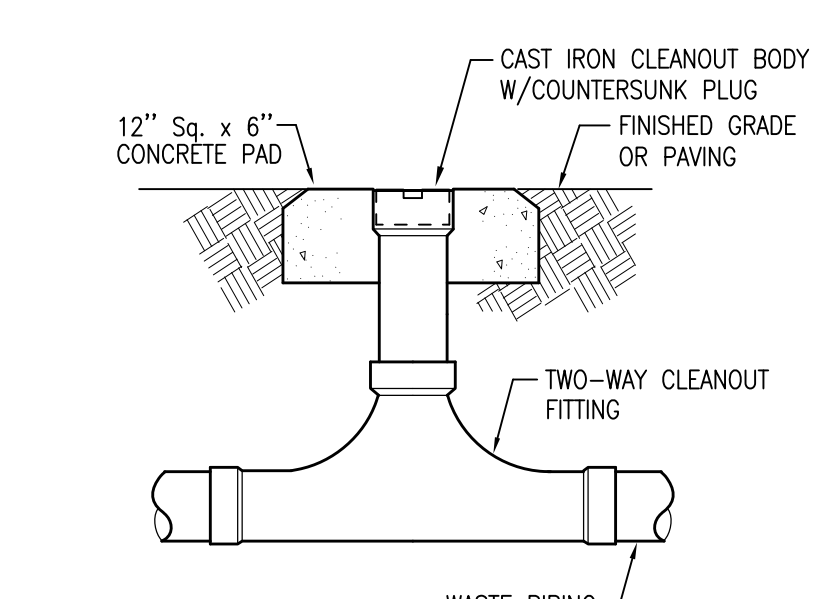
SEE PLUMBING FIXTURE CONNECTION SCHEDULE FOR PLUMBING FIXTURE SPECIFICATIONS.
 HW AND CW PIPING SHALL BE TYPE L HARD COPPER. MAXIMUM HANGER SPACING IS 6 FT.
 WATER PIPING SHALL BE INSULATED WITH 1" THICK HIGH DENSITY FIBERGLASS PIPE INSULATION WITH AN ALL SERVICE JACKET. MAXIMUM FLAME/SMOKE RATING IS 25/50.
 WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV. MAXIMUM HANGER SPACING IS 4 FT.
 TRAP PRIMERS SHALL BE PRECISION PLUMBING PRODUCTS (PPP) OR EQUAL.
 FLOOR DRAINS SHALL BE EQUAL TO ZURN Z415N.
 FLOOR CLEANOUTS SHALL BE EQUAL TO ZURN Z1400K.
 APPLICABLE CODES: FLORIDA BUILDING CODE - PLUMBING (2014 ED. WITH ALL SUPPLEMENTS), FLORIDA BUILDING CODE - BUILDING (2014 ED. WITH ALL SUPPLEMENTS).

PLUMBING LEGEND

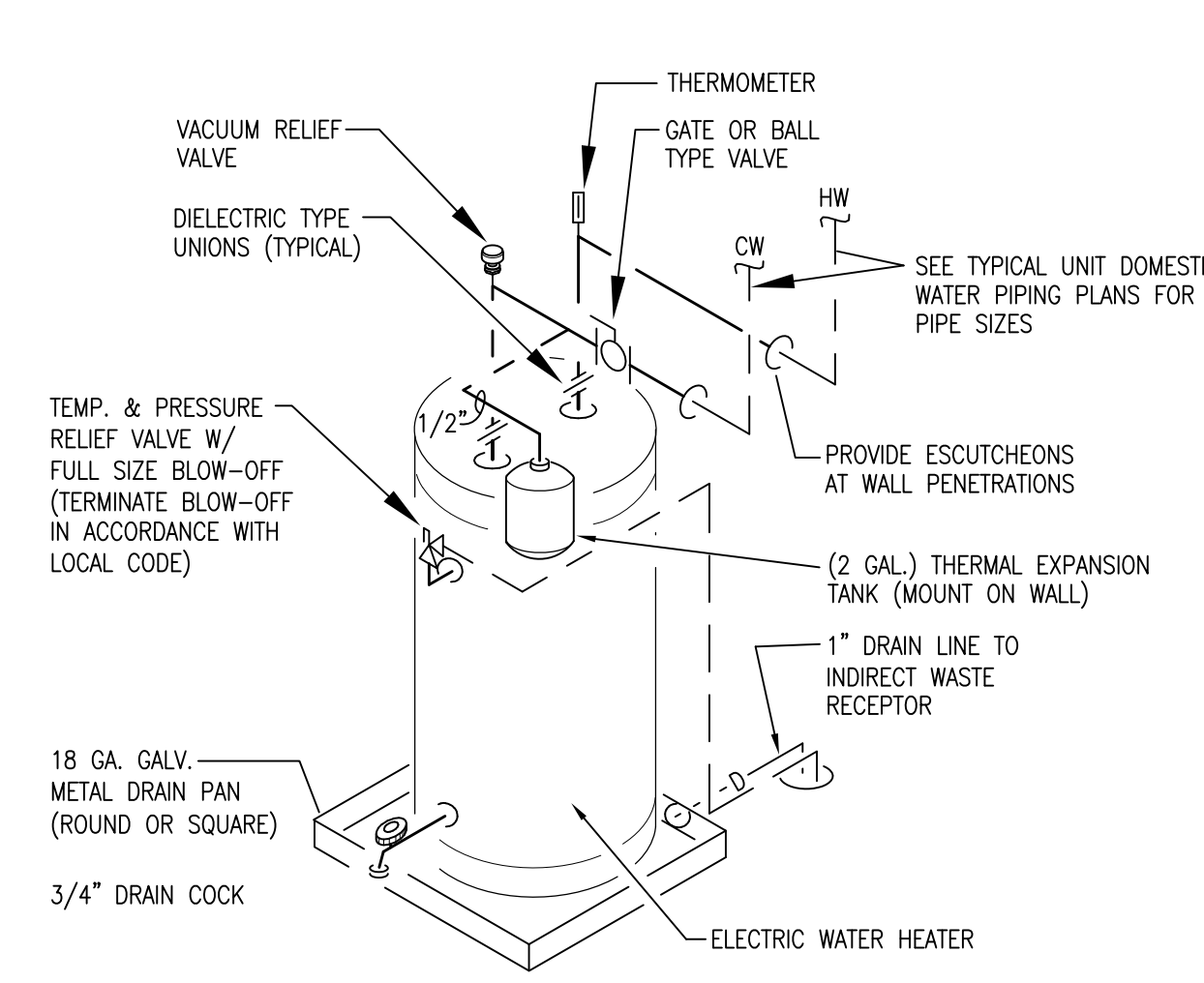
---	COLD WATER PIPING
---	HOT WATER PIPING
---	HOT WATER RETURN PIPING
---	WASTE PIPING
---	VENT PIPING
⊘	BALL VALVE
⊘	CHECK VALVE
⊘	BALANCING VALVE
⊘	P-TRAP
⊘	CONNECT NEW TO EXISTING
CO	CLEANOUT
CW	COLD WATER
EX	EXISTING
FCO	FLOOR CLEANOUT
HW	HOT WATER
HWR	HOT WATER RETURN
WCO	WALL CLEANOUT



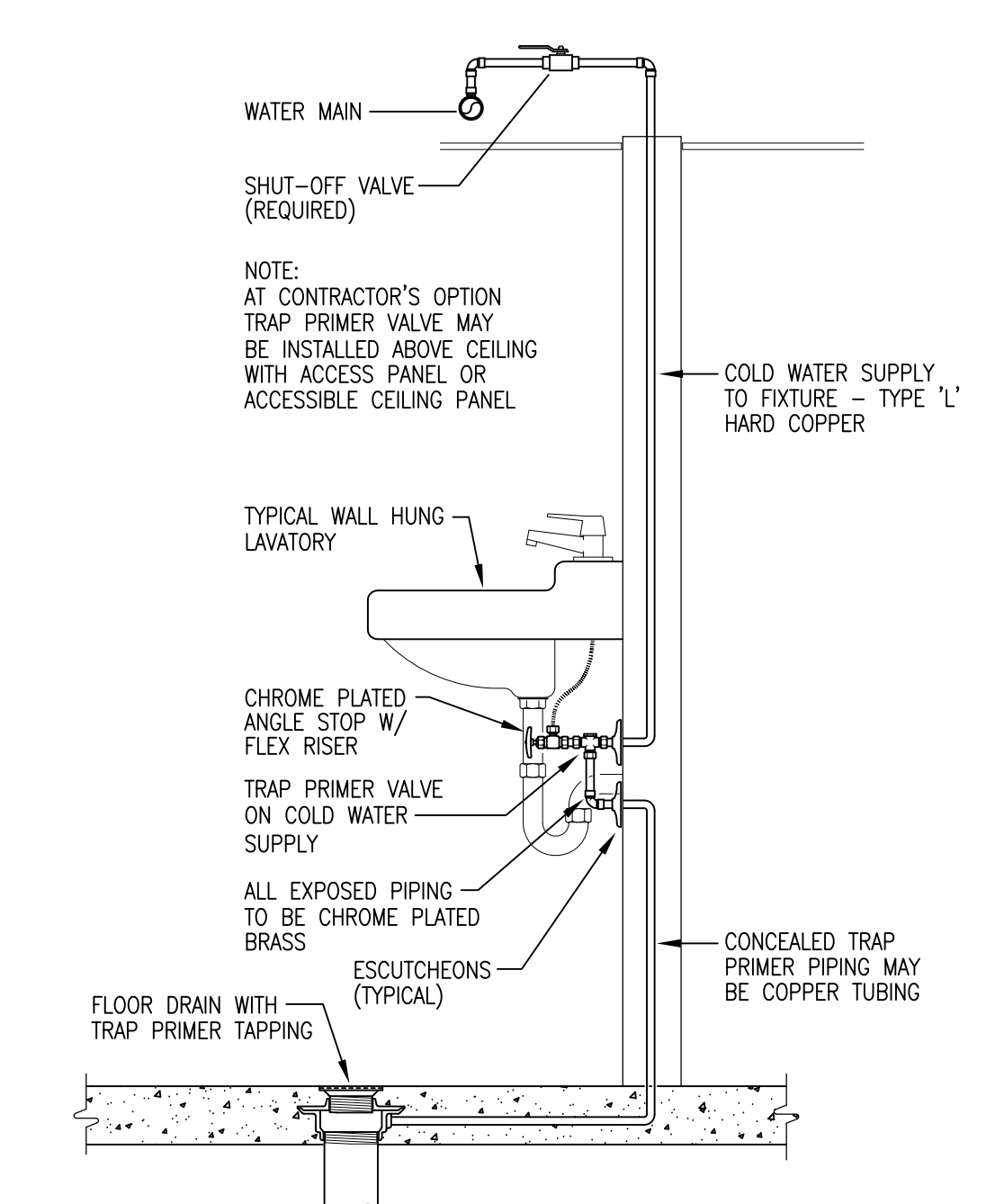
WASTE RISER DIAGRAM
NO SCALE



TWO-WAY EXTERIOR CLEANOUT DETAIL
SCALE: NONE



TYPICAL WATER HEATER DETAIL
NO SCALE



TRAP PRIMER DETAIL
SCALE: NONE

REVISIONS: NO. DATE DESCRIPTION	
H.M. YONGE & ASSOCIATES, INC. -CONSULTING ENGINEERS-	
PROJECT: FORT WALTON BEACH FIRE & RESCUE FIRE TRAINING BUILDING FT. WALTON BEACH, FLORIDA	
SHEET TITLE: PLUMBING SCHEDULES, LEGEND AND DETAILS	
SCALE: 1/4" = 1'-0"	DRAWN BY: T. MITCHELL
CHECKED BY: T. MITCHELL	DATE: 06/22/17
PROJECT NO. 17-088	CONSULTANTS SEAL
SHEET NO.	
P2.1	