St. Tammany Fire Protection District No.1

NEW FIRE STATION & HEADQUARTERS BUILDING

(FIRE STATION - PROJECT NO. AR-7-001985)

FEBRUARY 23, 2017

522 Robert Blvd. Slidell
LA, 70458

COVER



REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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GENERAL SCOPE OF WORK NOTES

1. OWNER WILL BE PROVIDING ACCESS CONTROL FOR THE BUILDING AND DOORS THROUGH A SEPERATE CONTRACT. CONTRACTOR SHALL ALLOW OWNERS PROVIDED CONTRACTOR TO WORK SIMULTANIOUSLY WITHIN UILDING TO COMPLETE THEIR WIRING AND FINISH OUT AT APPROPRIATE STAGES DURING CONSTRUCTION. A PRECONSTRUCTION MEETING WILL BE HELD PRIOR TO THE ACCESS CONTROL CONTRACTOR BEING ALLOWED ON SITE SO THAT WORK CAN BE COORDINATED.
2. TESTING REFERENCED IN THE SPECIFICATIONS AND DRAWINGS FOR CONCRETE WORK AND SITE/SOIL COMPACTION SHALL BE COORDINATED WITH THE OWNERS PROVIDED TESTING AGENCY, STRATUM ENGINEERING. FEES ASSOCIATE FOR SERVICE SHALL BE PAID FOR BY THE CONTRACTOR.
3. ALL EXTERIOR STOREFRONT SYSTEMS AND GLAZING TO BE IMPACT RESISTANT.
4. ALL APPLIANCES, INCLUDING GENERATORS, TO BE OWNER PROVIDED AND CONTRACTOR INSTALLED, EXCLUDING THE HOOD AT THE FIRE STATION. CONTRACTOR TO SUPPLY HOOD IN KITCHEN 103 AT STATION; OWNER TO SUPPLY "ALL INCLUSIVE" HOOD IN BREAK 108 AT HEADQUARTERS BUILDING.
5. CONTRACTOR TO VERIFY SIZE AN LOCATION OF CONCRETE PAD REQUIRED FOR GENERATORS LOCATED AT BOTH FIRE STATION AND HEADQUARTERS BUILDING; VERIFY MINIMUM CLEAR SPACE REQUIRED AROUND GENERATOR.
6. THE DURATION OF THE PROJECT TO BE 365 CALENDAR DAYS.
7. THE PROJECT SHALL BE A TAX EXEMPT PROJECT.
8. BUILDING PERMITS SHALL BE PAID FOR BY THE CONTRACTOR.
9. CONSTRUCTION SITE IS NOT REQUIRED TO BE "FENCED" BY OWNER; CONTRACTOR SHALL DETERMINE IF THEY WOULD LIKE THE SITE "FENCED."
10. CLEARING OF THE SITE SHALL BE IN CONTRACT. SITE SHALL BE CLEARED WITH EXEPTION OF 20' OFF REAR PROPERTY LINE.
11. **Brick selection** - Brick shall be a modulor, warm-grey color
    - Henry Brick – Traditional - Hartford
    - Acme – Architectural Blend (Slate)
    - Belden Brick - Landmark
    - St. Joe Brick
    - Brickcraft
    - Boral America
    - Columbus
    - Sioux City Brick
    - Forterra Brick
    - Kansas Brick

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FLOOR PLAN LEGEND

- 0' - 0" ELEVATION — ELEVATION DATUM HEIGHT DESIGNATION
- 808-1 — DOOR DESIGNATION TAG
- PT-1 — FINISH / MATERIAL DESIGNATION TAG
- 88 — REVISION DESIGNATION TAG
- W1 — WINDOW DESIGNATION TAG
- A1 — WALL DESIGNATION TAG
- ROOM NAME 812 — ROOM DESIGNATION TAG
- 88A12.18 SIM — DETAIL DESIGNATION TAG
- A10.11 SIM 2 — INTERIOR ELEVATION DESIGNATION TAG
- A6.01 4 — EXTERIOR ELEVATION DESIGNATION TAG
- 8 A10.12 SIM — BUILDING / WALL / DETAIL SECTION DESIGNATION TAG

CEILING PLAN LEGEND

- A 9' - 0" PT-1 — CEILING TYPE; CEILING HEIGHT ABOVE FINISH FLOOR; CEILING FINISH
- ROOM NAME 812 — ROOM DESIGNATION TAG

	PENDANT LIGHT		PENDANT LIGHT
	CEILING FAN		EXIT SIGN
	2X4 TROFFER LIGHT		2X2 TROFFER LIGHT
	LINEAR SURFACE MOUNT FLOURECENT		
	WALL MOUNT FLOURECENT		
	6" RECESSED CAN LIGHT		
VP	RECESSED CAN FOR WET LOCATION		
E	EXTERIOR RECESSED CAN		
	UNDER COUNTER LIGHT		
	ACCENT LIGHT		
	LINEAR PENDANT		

CEILING PLAN LEGEND

NOTE: REFER TO FINISH LEGEND & SCHEDULE FOR FURTHER INFORMATION

A	PAINTED GYPSUM BARD *MOISTURE RESISTANT @ SHOWER/BATH/TOILET/LAV
B	2 X 2 SUSPENDED ACOUSTICAL TILE CEILING *MOISTURE RESISTANT @ SHOWER/BATH/TOILET/LAV
C	PORTLAND CEMENT PLASTER SYSTEM
D	PREFINISHED METAL CANOPY SYSTEM

FINISH PLAN LEGEND

- ROOM NAME 812 — ROOM DESIGNATION TAG
- PT-1 — FINISH / MATERIAL DESIGNATION TAG

NOTE: REFER TO FINISH LEGEND & SCHEDULE FOR FURTHER INFORMATION

FINISH FLOOR TYPES

CPT-1	CARPET
TL-1	CERAMIC TILE
LVT-1	LUXURY VINYL TILE
EPOX-1	POURED EPOXY
EPOX-2	POURED EPOXY
CON-1	CONCRETE

LIFE SAFETY LEGEND

- 75 (50 / 25) — NUMBER OF OCCUPANTS ALONG PATH OF EGRESS; DIRECTION OF EGRESS; OCCUPANT LOAD
- DOOR: 72 REQUIRED / 888 PROVIDED — NUMBER OF OCCUPANTS EXITING; MAX. NUMBER OF OCCUPANTS ALLOWED
- STAIR: 72 REQUIRED / 888 PROVIDED — NUMBER OF OCCUPANTS EXITING; MAX. NUMBER OF OCCUPANTS ALLOWED
- 90 — REQUIRED OPENING RATING (min.)
- EXIT SIGN (DIRECTION & ILLUMINATION SIDE)
- FE-1 — FIRE EXTINGUISHER: SEMI-RECESSED CABINET
- FE-2 — FIRE EXTINGUISHER: SURFACE MOUNTED CABINET
- FE-3 — FIRE EXTINGUISHER: FULLY RECESSED CABINET
- FE-4 — FIRE EXTINGUISHER: SURFACE MOUNTED BRACKET
- FE-5 — FIRE EXTINGUISHER: UNDER COUNTER WITH BRACKET
- SMOKE PARTITION
- 1 - HOUR RATED WALL
- 2 - HOUR RATED WALL
- 3 - HOUR RATED WALL
- 4 - HOUR RATED WALL

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Scales stated hereon are valid on the original drawings only. Contractor shall carefully review all dimensions and conditions shown and report to the architect any errors, inconsistencies, or omissions discovered.

These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

St. Tammany Fire Protection District No.1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

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landscape, civil, and structural engineer:
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revisions

No.	Description	Date

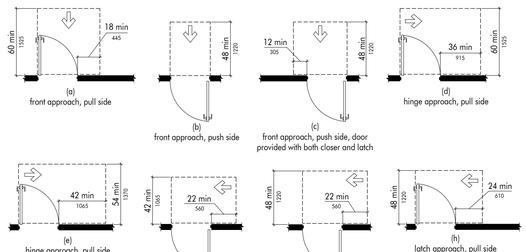
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date
FEBRUARY 23, 2017

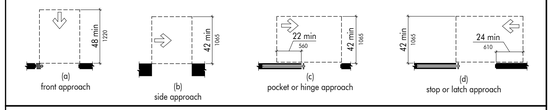
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I1.01

FEBRUARY 23, 2017

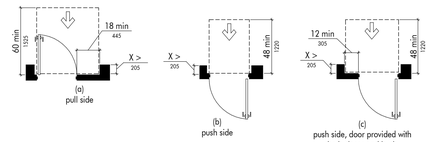
404.2.4.1 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS AND GATES



404.2.4.2 MANUEVERING CLEARANCE AT SLIDING AND FOLDING DOORS



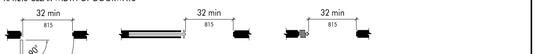
404.2.4.3 MANEUVERING CLEARANCE AT RECESSED DOORS AND GATES



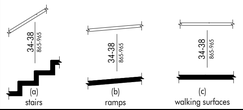
404.2.6 DOORS IN SERIES AND GATES IN SERIES



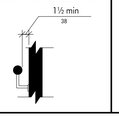
404.2.3 CLEAR WIDTH OF DOORWAYS



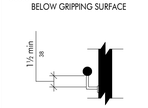
505.4 HANDRAIL HEIGHT



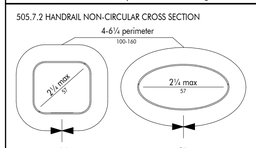
505.5 HANDRAIL CLEARANCE



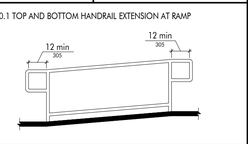
505.6 HORIZONTAL PROJECTION BELOW GRIPPING SURFACE



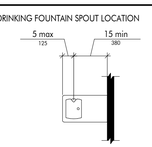
505.7.2 HANDRAIL NON-CIRCULAR CROSS SECTION



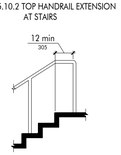
505.10.1 TOP AND BOTTOM HANDRAIL EXTENSION AT RAMP



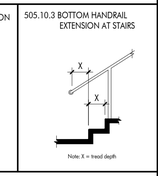
602.5 DRINKING FOUNTAIN SPOUT LOCATION



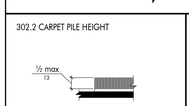
505.10.2 TOP HANDRAIL EXTENSION AT STAIRS



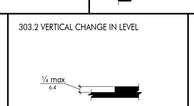
505.10.3 BOTTOM HANDRAIL EXTENSION AT STAIRS



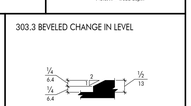
302.2 CARPET PILE HEIGHT



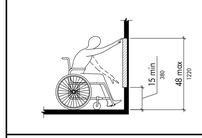
303.2 VERTICAL CHANGE IN LEVEL



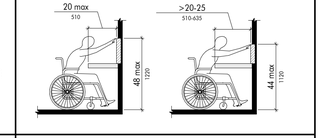
303.3 BEVELED CHANGE IN LEVEL



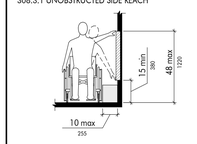
308.2.1 UNOBSTRUCTED FORWARD REACH



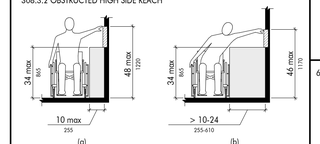
308.2.2 OBSTRUCTED HIGH FORWARD REACH



308.3.1 UNOBSTRUCTED SIDE REACH



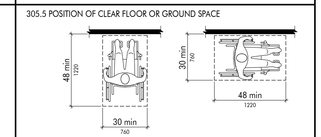
308.3.2 OBSTRUCTED HIGH SIDE REACH



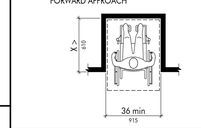
305.3 CLEAR FLOOR OR GROUND SPACE



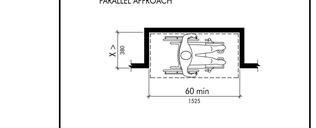
305.5 POSITION OF CLEAR FLOOR OR GROUND SPACE



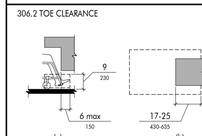
305.7.1 MANUEVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH



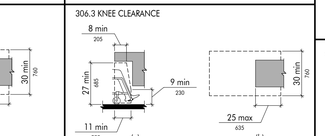
305.7.2 MANUEVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH



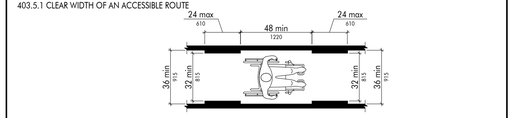
306.2 TOE CLEARANCE



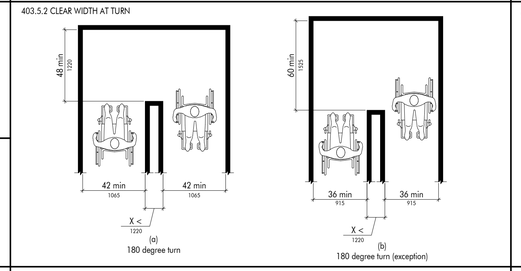
306.3 KNEE CLEARANCE



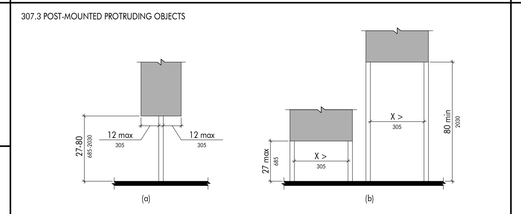
403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE



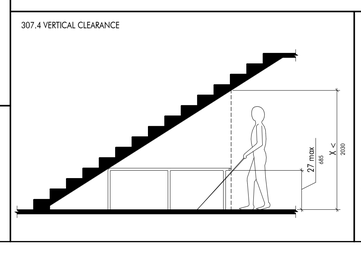
403.5.2 CLEAR WIDTH AT TURN



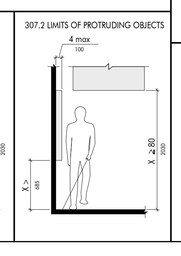
307.3 POST-MOUNTED PROTRUDING OBJECTS



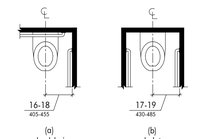
307.4 VERTICAL CLEARANCE



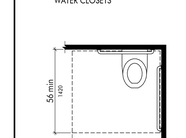
307.2 LIMITS OF PROTRUDING OBJECTS



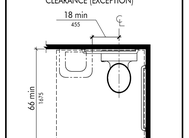
604.2 WATER CLOSET LOCATION



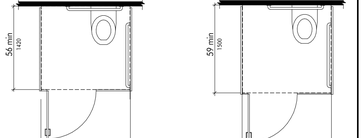
604.3.1 SIZE AND CLEARANCE AT WATER CLOSETS



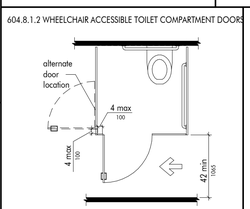
304.3.2 OVERLAP OF WATER CLOSET CLEARANCE (EXCEPTION)



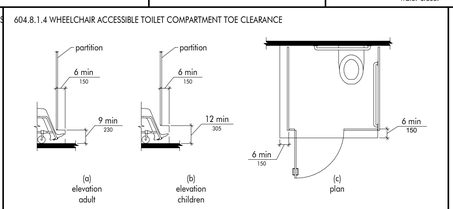
604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT



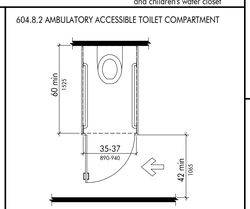
604.8.1.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS



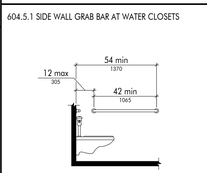
604.8.1.4 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE



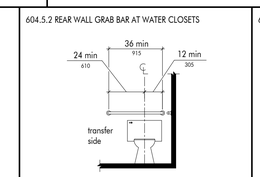
604.8.2 AMBULATORY ACCESSIBLE TOILET COMPARTMENT



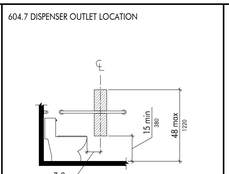
604.5.1 SIDE WALL GRAB BAR AT WATER CLOSETS



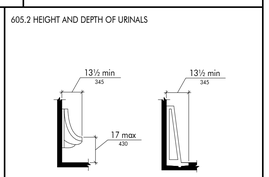
604.5.2 REAR WALL GRAB BAR AT WATER CLOSETS



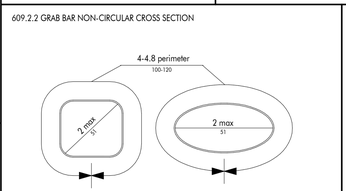
604.7 DISPENSER OUTLET LOCATION



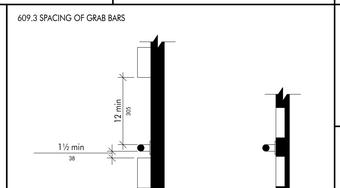
605.2 HEIGHT AND DEPTH OF URINALS



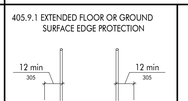
609.2.2 GRAB BAR NON-CIRCULAR CROSS SECTION



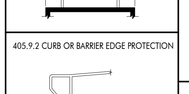
609.3 SPACING OF GRAB BARS



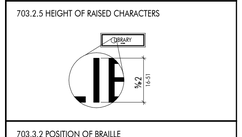
405.9.1 EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION



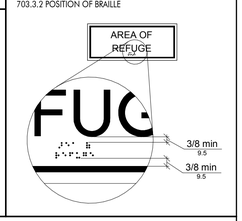
405.9.2 CURB OR BARRIER EDGE PROTECTION



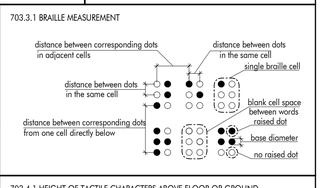
703.2.5 HEIGHT OF RAISED CHARACTERS



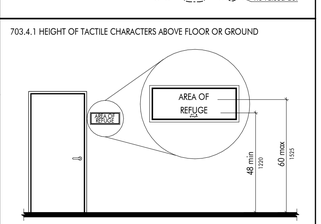
703.3.2 POSITION OF BRAILLE



703.3.1 BRAILLE MEASUREMENT



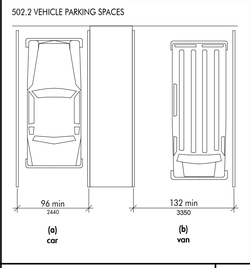
703.4.1 HEIGHT OF TACTILE CHARACTERS ABOVE FLOOR OR GROUND



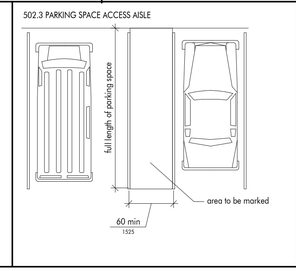
703.4.2 LOCATION OF TACTILE SIGNS AT DOORS



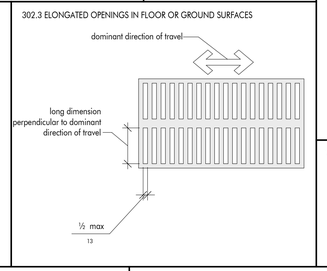
502.2 VEHICLE PARKING SPACES



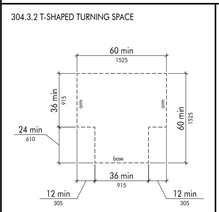
502.3 PARKING SPACE ACCESS AISLE



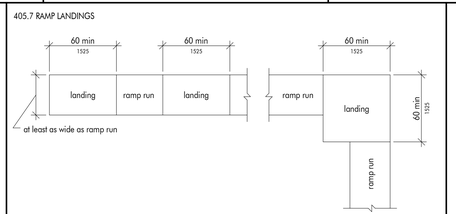
302.3 ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

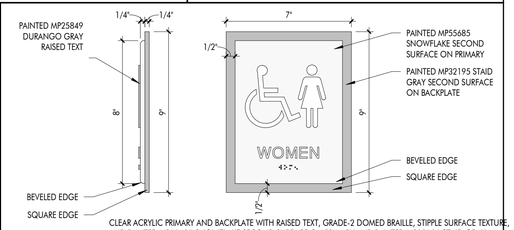


304.3.2 T-SHAPED TURNING SPACE



405.7 RAMP LANDINGS





CLEAR ACRYLIC PRIMARY AND BACKPLATE WITH RAISED TEXT, GRADE-2 DOMED BRAILLE, STIPPLE SURFACE TEXTURE, AND PAINTED **MP55685 SNOWFLAKE** SECOND SURFACE ON PRIMARY AND PAINTED **MP32195 STAID GRAY** SECOND SURFACE ON BACKPLATE. PRIMARY TO HAVE BEVELED EDGES AND BACKPLATE TO HAVE SQUARE EDGES.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

Convention	Description
36 915	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
6 150	dimension for small measurements
33-36 840-915	dimension showing a range with minimum - maximum
min	minimum
max	maximum
>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
	boundary of clear floor space or maneuvering clearance
	centerline
	a permitted element or its extension
	direction of travel or approach
	a wall, floor, ceiling or other element cut in section or plan
	a highlighted element in elevation or plan
	location zone of element, control or feature

DOMAIN APAC ARCHITECTURE
8316 kelwood avenue
baton rouge, la 70806
225.216.3770 ph

- JOINT VENTURE -

greenleaf architects
215 st. ann drive #5
mandeville, la 70471
985.778.2080 ph

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Scales stated hereon are valid on the original drawings only. Contractor shall carefully review all dimensions and conditions shown and report to the architect any errors, inconsistencies, or omissions discovered.

These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

St. Tammany Fire Protection District No.1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
CRUMB ENGINEERING LLC
4609 FAIRFIELD STREET
METAIRIE, LA 70006
504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
638 VILLAGE LANE NORTH
MANDEVILLE, LA 70471
985.727.9377

revisions

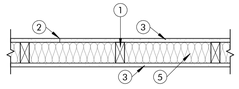
No.	Description	Date

PROJ. #: C16-0058

date
FEBRUARY 23, 2017

sheet
I1.02

FEBRUARY 23, 2017



UL DESIGN NO. U305
BEARING WALL RATINGS — 1HR
FINISH RATING - SEE ITEM 2
STC RATING - 56 (SEE ITEM 8)

1. Wood Studs— Nom 2 by 4 in. spaced 16" OC, effectively firestopped.

2. Joints and Nailheads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. Gypsum Board — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

6. Steel Frame Members — (Optional, Not Shown) Furring channels and Steel Framing Members

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:
A. Item 2, above — Nailheads Shall be covered with joint compound.
B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.
C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.
D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.
E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.
F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

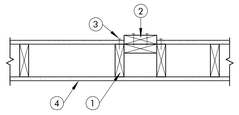
10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.

12. Non-Bearing Wall Partition Intersection — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.



UL DESIGN NO. U379
BEARING WALL RATINGS — 1HR

1. Wood Studs— Nom 2 by 4 in. spaced 16" OC, effectively firestopped.

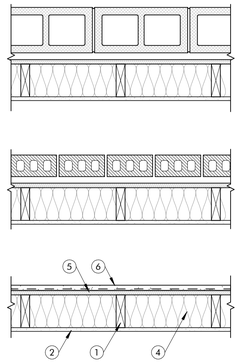
2. Non-Bearing Wall Partition Intersection — Minimum nominal 2 by 4 in. studs nailed together and fastened to one side of the minimum 2 by 6 in. stud. Intersection between 2 by 4 in. studs to be flush with 2 by 6 in. stud. 2 by 4 in. double stud framed with a second 2 by 6 in. stud. Maximum one non-bearing intersection per stud cavity. Non-bearing wall partition stud depth shall be at least equal to the depth of the bearing wall.

3. Fasteners — (For non-bearing wall intersection) Nom. 2 by 4 in. studs nailed together with two 3 in. long, 10d nails spaced 16 in. OC vertically. Nom. 2 by 4 in. studs nailed to 2 by 6 in. studs with 3 in. long, 10d nails spaced 16 in. OC vertically.

4. Gypsum Board* — 5/8 in. thick paper, glass mat or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. When used in widths other than 48 in., gypsum panels are to be installed horizontally. Gypsum panels nailed 7 in. OC with 6d nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. As an alternate to nails, gypsum panels may be fastened to studs with 1-5/8 in. long wallboard screws spaced 8 in. OC max, with last screw 1 in. from edge of board.

5. Joint Compound — (Not Shown) Joints covered with one layer of tape and two coats of joint compound. Fastener heads covered with two coats of joint compound.

6. Batts and Blankets* — (Optional, Not Shown) Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities.



UL DESIGN NO. U356
(EXPOSED TO FIRE ON INTERIOR FACE ONLY)
BEARING WALL RATING - 1HR
FINISH RATING - 23 MIN.

1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. bottom plates. Studs laterally-braced by wood structural panel sheathing (Item 5). When Mineral and Fiber Boards* (Item 5A) are considered as bracing for the studs, the load is restricted to 76% of allowable axial load. Walls effectively fire stopped at top and bottom of wall.

2. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.

When Item 7, Steel Framing Members*, is used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 7A, 7B, or 7C Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers.

3. Joints and Fastener Heads — (Not Shown) — Gypsum board joints covered with tape and joint compound. Fastener heads covered with joint compound.

4. Batts and Blankets* — Mineral fiber or glass fiber insulation, 3-1/2 in. thick, pressure fit to fill wall cavities between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).
See Batts and Blankets* (BKNV) Category in the Building Materials Directory and Batts and Blankets* (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.

5. Wood Structural Panel Sheathing — Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs.

5A. Mineral and Fiber Boards* — As an alternate to Item 5 - Min 1/2 in. thick, 4 ft wide sheathing, installed vertically to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 1-1/2 in. long galvanized roofing nails spaced 6 in. OC at perimeter of panels and 12 in. OC along interior studs. As an option a weather resistive barrier may be applied over the Mineral and Fiber Boards.

6. Exterior Facings — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:
A. Vinyl Siding — Molded Plastic* — Contoured rigid vinyl siding having a flame spread value of 20 or less.
See Molded Plastic (BTAT) category in the Building Materials Directory for names of manufacturers.

B. Particle Board Siding — Hardboard exterior sidings including patterned panel or lap siding.

C. Wood Structural Panel or Lap Siding — APA Rated Siding, Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.

D. Cementitious Stucco — Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.

E. Brick Veneer — Any type on nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 8d nail per tie: ties spaced not more than each sixth course of brick and max 32 in. OC horizontally. One in. air space provided between brick veneer and sheathing.

F. Exterior Insulation and Finish System (EIFS) — Nom 1 in. Foamed Plastic* insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See Foamed Plastic (BRYX and CCVW) categories for names of Classified companies.

G. Siding — Aluminum or steel siding attached over sheathing to studs.

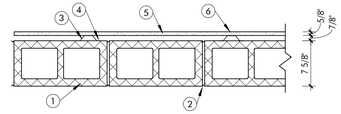
H. Fiber-Cement Siding — Fiber-cement exterior sidings including smooth and patterned panel or lap siding.

I. Wall and Partition Facings and Accessories* — Stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier applied to sheathing, installed in accordance with the manufacturers installation instructions, and meeting the requirements of local code agencies.

ELDORADO STONE OPERATIONS L L C — Type Eldorado Stone

7. Steel Framing Members* — (Optional, Not Shown) — Furring Channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
b. Steel Framing Members* — Used to attach furring channels (Item 7A) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

8. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.



UL DESIGN NO. U914
Bearing Wall Rating — 3 HR.
Nonbearing Wall Rating — 3 HR.

1. Concrete Blocks* — Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers.

2. Mortar — Blocks laid in full bed of mortar, nom 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. Furring Channels — Min 0.019 in. thick (25 gauge) galv steel, 1-3/8 in. wide on top and 2-9/16 in. or 2-3/4 in. or 2-23/32 in. wide at bottom by 7/8 in. deep. Spaced 24 in. OC perpendicular to floor with a channel parallel to and approximately 3 in. above floor and 3 in. below ceiling. Clearance between vertical and horizontal channels 1/2 in.

4. Channel Fasteners — 1-1/4 in. long masonry screws with 3/16 in. body and 5/16 in. diameter head. Fasteners spaced 24 in. O.C. with the fasteners staggered on each long leg of the furring channel.

4A. Steel Framing Members* — Alternate method used to attach furring channels (Item 3) to concrete blocks (Item 1). Clips spaced 48 in. OC., and secured to blocks with 1/4 in. dia. By 3 in. long concrete expansion anchor (Item 4B) through the center grommet. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

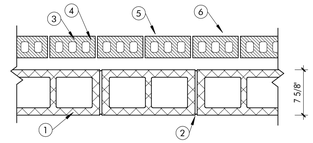
4B. Concrete Expansion Anchor — (Not Shown) — 1/4 in. dia. by 3 in. long carbon steel, pre-assembled, nail drive expansion anchor with mushroom head driven into the web of the concrete block. Min. embedment in concrete block of 1-3/8 in. and evaluated in accordance with ASTM E 488 to have ultimate load capacities of 980 lbs (tension) and 1400 lbs (shear) when used in 2000 psi concrete.

4C. Steel Framing Members* — (Not Shown) — Alternate method used to attach furring channels (Item 3) to concrete blocks (Item 1). Clips spaced 24 in. OC., and secured to blocks with 1/4 in. dia. by 3 in. long concrete expansion anchor (Item 4B) through the center hole. Ends of adjoining channels are overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Furring channels are friction fitted into clips. Side joint furring channels shall be attached to concrete block with RESILMOUNT Sound Isolation Clips - Type A237R located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

5. Gypsum Board* — 1/2 in. thick, 4 ft wide, secured to furring channels with wallboard fasteners (Item 6). Gypsum plaster not more than 1/16 in. thick may be applied to wallboard in addition to joint treatment.

6. Wallboard Fasteners — 1 in. long, self-drilling, self-tapping steel screws with bugle heads. Fasteners attached to each furring channel and spaced 8 in. OC at butt joints and 12 in. OC in the field of the board parallel with furring channels. Clearance between fasteners and edges of wallboard 3/4 in.

7. Joint System — (Not shown) — Paper tape embedded in cementitious compound over joints. Paper tape and exposed screw heads covered with two layers of compound. Edges of compound feathered out.



UL DESIGN NO. U902
Bearing Wall Rating — 2 HR.
Nonbearing Wall Rating — 2 HR.

1. Clay Face Brick — 3-5/8 in. wide by 2-1/4 in. high by 8 in. long.

1A. Concrete Blocks* — Various designs, Classification D-2 (2 h).
See Concrete Blocks category for list of eligible manufacturers.

2. Brick Ties — 3/4 in. wide, 7 in. long corrugated 26 MSG galv steel. Spaced one to each brick in every second course of blocks.

3. Mortar — Bricks and blocks laid in full bed of mortar nom. 3/8 in. thick of not less than 2-1/4 and not more than 3-1/2 parts clean sharp sand to 1 part Portland cement (proportioned by vol) and not more than 50 percent hydrated lime (by cement vol). Vertical joints staggered.

4. Reinforcement — Parallel and diagonal rods, 0.150 in. min diam with welded joints a max 16 in. OC. Placed the width of concrete block wall in every second course of blocks alternately with brick ties.

4A. Masonry Reinforcement — Prefabricated steel reinforcement, truss or ladder type, used for embedment in every second horizontal mortar joint. Placed the full width of wall assembly. Side and cross rods No. 9 (0.150 in.) min diam with welded joints a max 16 in. OC.

5. Concrete Blocks* — Various designs Classification D-2 (2 h). See Concrete Blocks category for list of eligible manufacturers.

6. Foamed Plastic* — (Optional — Not shown with clay face brick detail) Rigid polystyrene insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick max having 1 in. min air space with face brick or blocks.

6A. Foamed Plastic* — (Optional-Not shown with clay face brick detail). Rigid polyisocyanurate insulation for use between brick and/or concrete blocks. One or more layers of rigid extruded polystyrene insulation, 4 in. thick max having 1 in. min air space with face brick or blocks.

6B. Foamed Plastic* — (Optional-Not shown with clay face brick detail). Two-component foamed plastic formed from NCFI 11-001, NCFI 11-002, NCFI 11-015, NCFI 11-016 or NCFI11-017 spray applied between brick and/or concrete blocks at a nominal density of 2.1 pcf, 4 in. thick max, having a 1 in. min air space with face brick or blocks.

6C. Foamed Plastic* — (Optional-Not shown with clay face brick detail). Spray applied, foamed plastic insulation spray applied between brick and/or concrete blocks, having a 1 in. min air space with face brick or blocks.

6D. Building Unit* — (Optional-Not shown with clay face brick detail). Rigid polyisocyanurate composite insulation for use between brick and/or concrete blocks.

7. Wall and Partition Facing and Accessories — (Not Shown) Installed in accordance with the manufacturers installation instructions. Min. 0.25 in. (6 mm) thick panel fastened to the exterior surface.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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Scales stated hereon are valid on the original drawings only. Contractor shall carefully review all dimensions and conditions shown and report to the architect any errors, inconsistencies, or omissions discovered.

These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

St. Tammany Fire Protection District No.1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
CRUMB ENGINEERING LLC
4609 FAIRFIELD STREET
METAIRIE, LA 70006
504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
638 VILLAGE LANE NORTH
MANDEVILLE, LA 70471
985.727.9377

revisions

No.	Description	Date

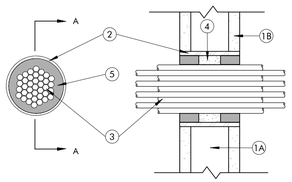
PROJ. #: C16-0058

date
FEBRUARY 23, 2017

sheet
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FEBRUARY 23, 2017

1 UL DESIGN WALL ASSEMBLIES
1" = 1'-0"



SECTION A - A

UL SYSTEM No. W-L-3046

ANSI/UL1479 (ASTM E814)

F Rating -- 1 Hr
T Rating -- 1/2 Hr

1. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — One layer of 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 6 in. (152 mm).

2. Metallic Sleeve — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surface.

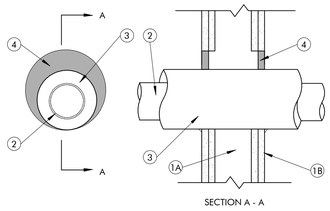
3. Cables — Max 7/C No. 12 AWG cables with polyvinyl chloride jacket and insulation. Aggregate cross-sectional area of tightly bundled cable group to be 33 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of wall assembly.

4. Packing Material — Min 2-3/4 in. (70 mm) thickness of min 4.0 (64 kg/m3) pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.

5. Fill, Void or Cavity Material* — Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



SECTION A - A

UL SYSTEM No. W-L-5017

F Rating - 1 and 2 Hr (See Item 1)

FT Rating - 1 Hr

FH Ratings - 1 and 2 Hr (See Item 1)

FTH Rating - 1 Hr

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 51 mm by 102 mm (2 by 4 in.) lumber spaced 406 mm (16 in.) OC. Steel studs to be min 92 mm (3-5/8 in.) wide and spaced max 610 mm (24 in.) OC.

B. Gypsum Board* — Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 305 mm (12 in.).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrant — One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used:

A. Steel Pipe — Nom 152 mm (6 in.) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. Iron Pipe — Nom 152 mm (6 in.) diam (or smaller) cast or ductile iron pipe.

C. Copper Pipe — Nom 102 mm (4 in.) diam (or smaller) Regular (or heavier) copper pipe.

D. Copper Tube — Nom 102 mm (4 in.) diam (or smaller) Type L (or heavier) copper tube.

3. Pipe Coverings — One of the following types of pipe coverings shall be used:

A. Pipe and Equipment Covering Materials* — Nom 51 mm (2 in.) thick hollow cylindrical heavy density (min 56 kg/m3 or 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or butt tape supplied with the product. The annular space between the insulated through penetrant and periphery opening shall be min 0 mm (0 in., point contact) to max 38 mm (1-1/2 in.).

See **Pipe and Equipment Covering Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. Pipe Covering Materials* — Nom 51 mm (2 in.) thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube. Pipe insulation secured with min No. 8 AWG steel wire spaced max 305 mm (12 in.) OC. The annular space between the insulated through penetrant and periphery opening shall be min 0 mm (0 in., point contact) to max 38 mm (1-1/2 in.).

IIG MINWOOL L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc.

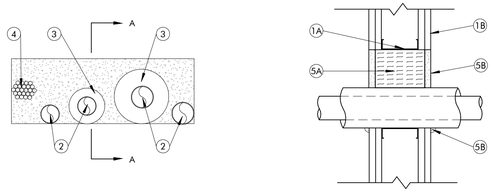
C. Sheathing Material* — Used in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or butt tape.

See **Sheathing Materials** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Fill, Void or Cavity Material* — Sealant — Min 16 mm (5/8 in.) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 6 mm (1/4 in.) diam bead of fill material applied at insulated metallic pipe/gypsum board interface on both surfaces of wall.

SPECIFIED TECHNOLOGIES INC — SpecSeal LCI Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



SECTION A - A

UL SYSTEM No. W-L-8065

ANSI/UL1479 (ASTM E814)

F Rating -- 1 and 2 Hr (See Item 1)
T-Rating -- 0

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or channel shaped steel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be installed in stud cavity containing through-penetrating item to form a rectangular box around the penetrants.

B. Gypsum Board* — 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. If the through penetrants are installed in a wood stud/gypsum board assembly, the max area of opening is 116 in.2 (748 cm2). with max dimension of 14-1/2 in. (368 mm). If the through penetrants are installed in a steel stud/gypsum board assembly, max area of opening is 182 in2. (1174 cm2) with max dimension of 22-3/4 in. (578 mm) wide.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrant — One or more pipes, conduit or tubes to be installed within the opening. The total number of through-penetrants is dependent on the size of the opening and the types and sizes of the penetrants. Any combination of the penetrants described below may be used provided that the following parameters relative to the annular spaces and the spacing between the through penetrants are maintained. The separation between the penetrants shall be min 1 in. (25 mm) to max 22 in. (560 mm). The annular space between penetrants and the periphery of opening shall be min 0 in. (0 mm, point contact) to max 22 in. (560 mm). Pipes, conduit or tubes to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduit or tubes may be used.

A. Copper Tubing — Nom 3 in. (76 mm) diam (or smaller) Type L (or heavier) copper tube.

B. Copper Pipe — Nom 3 in. (76 mm) diam (or smaller) Regular (or heavier) copper pipe.

C. Steel Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

D. Iron Pipe — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

E. Conduit — Nom 3 in. (76 mm) diam (or smaller) electric metallic tubing (EMT) or rigid steel conduit.

F. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.

G. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.

H. Rigid Nonmetallic Conduit (RNC)+ — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Articles 347 and 710 of the National Electrical Code (NFPA No. 70).

I. Cross Linked Polyethylene Tubing — Nom 1 in. (25 mm) diam (or smaller) cross-linked polyethylene tubing for use in closed (process or supply) piping systems.

3. Pipe Insulation — One or more metallic penetrants (pipe or tubing) may be insulated with the following types of pipe coverings:

A. Pipe Covering* — Min 1 in. (25 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density min 3.5 pcf (56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.

See **Pipe and Equipment Covering - Materials** (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. Tube Insulation-Plastics+ — Min 1/2 in. (13 mm) to max 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.

See **Plastics+** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

C. Pipe Covering Materials* — Min 1 in. (25 mm) to max 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (56 kg/m3) or heavier and sized to fit the outside diam of pipe or tube. Pipe insulation secured with min 18 SWG steel wire spaced 12 in. (305 mm) OC.

IIG MINWOOL L L C — High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc

C1. Sheathing Material — (Not shown) — Optional, used in conjunction with Item 3C. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe covering material (Item 3B) with the kraft side exposed. Longitudinal joints sealed with metal fasteners.

See **Sheathing Materials** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread value of 25 or less and a Smoke Developed value of 50 or less may be used.

The annular space between the insulated penetrants and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 5 in. (127 mm). The separation between the insulated penetrants and the other penetrants shall be a min 1 in. (25 mm) to max 22 in. (560 mm).

4. Cables — One max 3 in. (76 mm) diam bundle of cables installed within the opening and rigidly supported on both surfaces of wall. The annular space between the tightly-bundled cables and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 5 in. (127 mm). The separation between the cable bundle and the other penetrants shall be min 1 in. (25 mm) to max 22 in. (560 mm). Any combination of the following types and sizes of cables may be used:

A. Max 25 pair No. 24 AWG telephone cable with polyvinyl chloride (PVC) insulation and jacket.

B. Max 7/C No. 12 AWG copper conductor power and control cable with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket.

C. Multiple fiber optical communication cable jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).

D. Max 3/C No. 8 AWG with bare aluminum ground, PVC insulated steel Metal-Clad+ Cable currently Classified under the **Through Penetrating Product*** (XHLY) category.

E. Max 3/C (with ground) No. 12 AWG (or smaller) nonmetallic sheathed (Romex) cable with PVC insulation and jacket materials.

F. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diam of 1/2 in. (13 mm).

5. **Firestop System --** the firestop system shall consist of the following:

A. Packing Material — In 2 hr fire rated wall assemblies, min 4-3/4 in. (121 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. In 1 hr fire rated wall assemblies, min 3-1/2 in. (89 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material recessed from both surfaces of the wall to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrants and gypsum board, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

\+ Bearing the UL Listing Mark

\# Bearing the UL Recognized Component Mark

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

FEBRUARY 23, 2017

1 UL DESIGN ASSEMBLIES - PENETRATION DETAILS
1" = 1'-0"

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St. Tammany Fire Protection District No.1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
CRUMB ENGINEERING LLC
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504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
638 VILLAGE LANE NORTH
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revisions

No.	Description	Date

PROJ. #: C16-0058

date
FEBRUARY 23, 2017

sheet
LS1.02

BUILDING CODE: INTERNATIONAL BUILDING CODE, 2012 EDITION
LIFE SAFETY CODE: NFPA 100, 2012 EDITION
OTHER CODES: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

IBC

BUILDING OCCUPANCY:	MIXED OCCUPANCY, BUSINESS (B) / STORAGE (S-2)
CONSTUCTION TYPE AS PER TABLE 601:	TYPE VB
OCCUPANT LOAD AS PER TABLE 1004.1.2:	- (B) 1/6 OCCUPANTS - (S-2) 6 OCCUPANTS
MAXIMUM ALLOWABLE HEIGHT:	45'-0"
ACTUAL HEIGHT:	25'-0"
MAXIMUM ALLOWABLE AREA:	9,000 SF (PRIOR TO HEIGHT / AREA INCREASE)
ACTUAL AREA:	6,177 SF
SEPERATION REQUIREMENTS AS PER TABLE 302.3.2:	1 HOUR FIRE RATED SEPERATION BETWEEN (B) & (S-2) WHEN BUILDING EQUIPPED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM.
FIRE PROTECTION PROVIDED:	- 1 HOUR FIRE RATED PARTITION BETWEEN (B) & (S-2) REQUIRED, 2 HOUR PROTECTION PROVIDED WITH UL WALL ASSEMBLY 905 - 45 MIN. FIRE RATED DOOR REQUIRED WITHIN FIRE RATED WALL ASSEMBLY - SMOKE PARTITION LOCATED AROUND BUNKROOM AND OFFICES
MEANS OF EGRESS REQUIREMENTS:	REFER TO LIFE SAFETLY PLANS FOR EGRESS WIDTHS AND OCCUPANT LOADS

AUTOMATIC SPRINKLER SYSTEM THROUGHOUT BUILDING REFER TO

NFPA 101

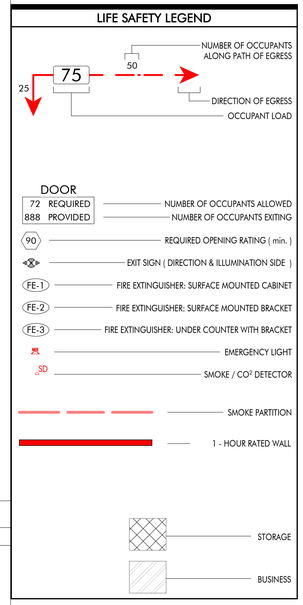
CLASSIFICATION OF OCCUPANCY:	MULTIPLE OCCUPANCY - BUSINESS & STORAGE (LOW HAZARD)
REQUIRED SEPERATION AS PER TABLE 6.1.14.4.1:	- 2 HOUR FIRE RATING WITH 1 HOUR REDUCTION WITH PROTECTION OF AUTOMATIC SPRINKLER SYSTEM THROUGHOUT.
MEANS OF EGRESS	- REFER TO LIFE SAFETY PLAN FOR - CAPACITY / NUMBER OF EGRESS REQUIRED & PROVIDED - ARRANGEMENT OF EGRESS REQUIRED - DEAD END CORRIDOR NOT TO EXSEED 20' - COMMON PATH OF TRAVEL NOT TO EXCEED 100' - TRAVEL DISTANCE NOT TO EXCEED 300' - AS PER TABLE 42.2.5, COMMON PATH OF TRAVEL NOT LIMITED IN STORAGE BY AUTOMATIC SPRINKLER SYSTEM
OCCUPANCY WHEN PROTECTED	

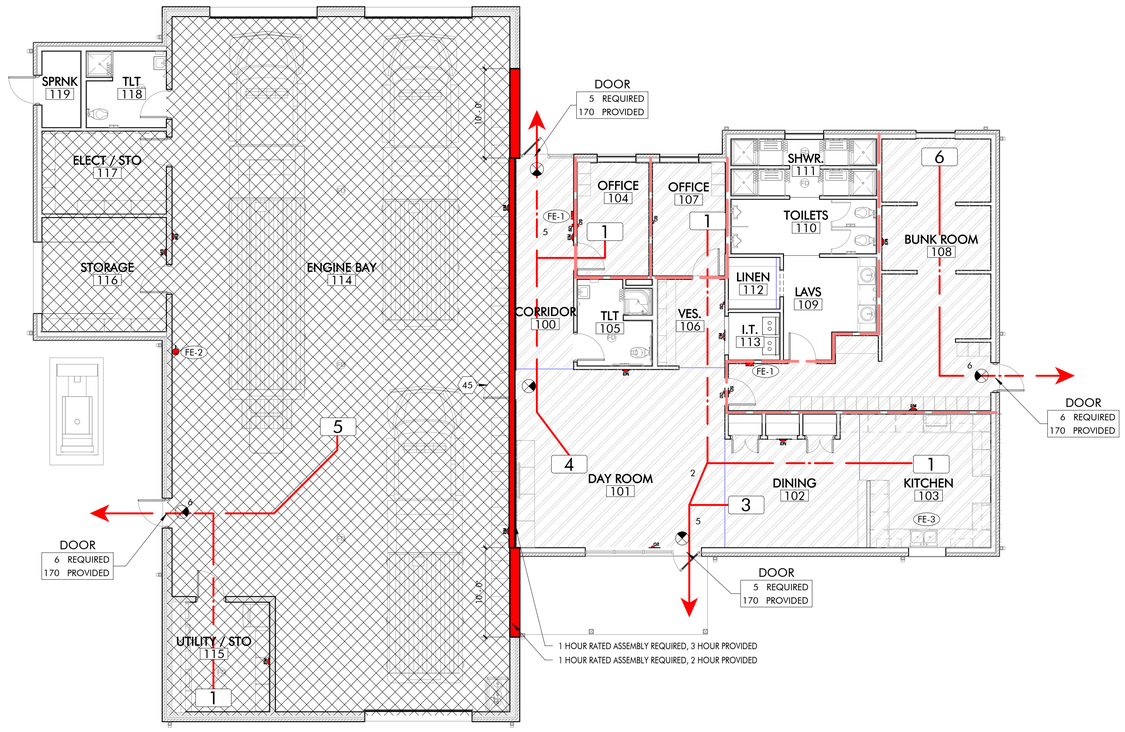
ADA

	REFER TO 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
SPECIAL REQUIREMENTS:	NONE

1 BUILDING CODE AND LIFE SAFETY INFO.

LIFE SAFETY LEGEND





2 1ST FLOOR - LIFE SAFETY

1/8" = 1'-0"

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

FEBURARY 23, 2017

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landscape, civil, and structural engineer:
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revisions

No.	Description	Date

PROJ. #: C16-0058

date
FEBURARY 23, 2017

sheet
LS2.20

BUILDING CODE: INTERNATIONAL BUILDING CODE, 2012 EDITION
LIFE SAFETY CODE: NFPA 100, 2012 EDITION
OTHER CODES: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

IBC

BUILDING OCCUPANCY:	MIXED OCCUPANCY, BUSINESS (B) / STORAGE (S-2)
CONSTUCTION TYPE AS PER TABLE 601:	TYPE VB
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MEANS OF EGRESS REQUIREMENTS:	REFER TO LIFE SAFETLY PLANS FOR EGRESS WIDTHS AND OCCUPANT LOADS

AUTOMATIC SPRINKLER SYSTEM THROUGHOUT BUILDING REFER TO

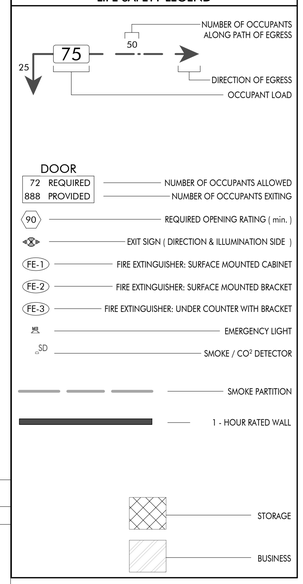
NFPA 101

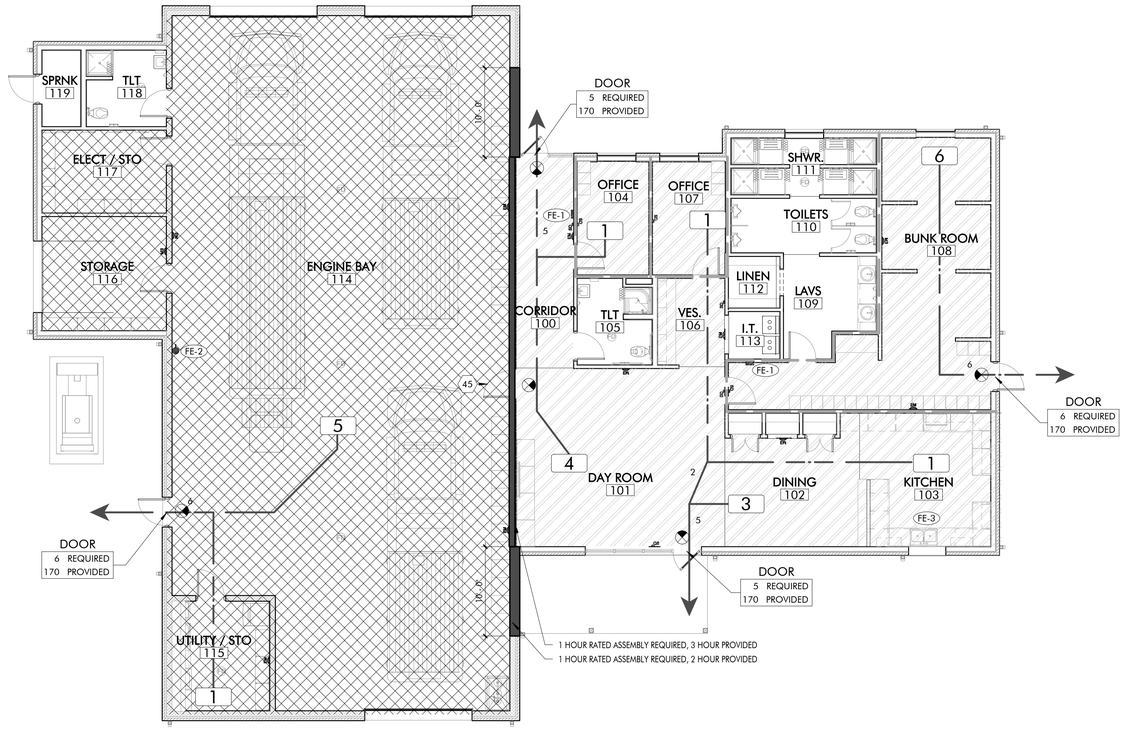
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OCCUPANCY WHEN PROTECTED	

ADA

	REFER TO 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
SPECIAL REQUIREMENTS:	NONE

LIFE SAFETY LEGEND





1 BUILDING CODE AND LIFE SAFETY INFO.

2 1ST FLOOR - LIFE SAFETY

1/8" = 1'-0"

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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date
FEBURARY 23, 2017

sheet
LS2.20

GENERAL NOTES

1. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF CITY OF SLIDELL AND THE LA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (LATEST EDITION) (LSSRB) AND ALL OTHER AGENCIES AS APPLICABLE.
2. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL CAREFULLY VERIFY SAME AND TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL CONTACT LA ONE CALL TO HAVE ALL EXISTING UTILITIES LOCATED.
3. CONTRACTOR SHALL VERIFY TOP-CASTING AND INVERT ELEVATIONS PRIOR TO ORDERING MANHOLES/CATCH BASINS.
4. DAMAGES TO EXISTING STREETS, DRAINAGE, OTHER UTILITY STRUCTURES, AND RESIDENT PROPERTIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR TO ORIGINAL AND/OR BETTER CONDITIONS TO THE SATISFACTION OF THE OWNERS.
5. CONTRACTOR SHALL NOT DAMAGE TREES TO REMAIN. IF DAMAGED, CONTRACTOR SHALL REPLACE AT HIS OWN COST. THE CONTRACTOR SHALL PROVIDE A LOUISIANA LICENSED ARBORIST TO PERFORM NECESSARY TREE TRIMMING, ROOT PRUNING, OR RECOMMENDATION OF REMOVAL OF ANY TREE GREATER THAN 12" CALIPER PRIOR TO BEGINNING EXCAVATION. CONTRACTOR SHALL USE A CHAIN SAW TO CUT ROOTS OF TREES EXPOSED DURING EXCAVATION AND COORDINATE WITH OWNER. CONTRACTOR SHALL NOT BREAK ROOTS BY PULLING THEM WITH DIGGING MACHINES. ROOTS AND BRANCH PROTECTANT SHALL BE SPRAYED OR PAINTED ON BRANCHES OR ROOTS WHICH HAVE BEEN CUT.
6. PROTECT ALL EXISTING TREES, PLANTING AND LAWNS FROM DAMAGE. ALL STREET SIGNS, FENCES, SHRUBBERY, ETC. RELOCATED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL LOCATION AND IN ORIGINAL CONDITIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. STATE AND PARISH RIGHTS-OF-WAY AND ALL SERVITUDE SHALL BE CLEARED OF TREES AND OBSTRUCTIONS THAT INTERFERE WITH CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN SERVICES, SUPPLYING MATERIALS, AND LABOR NECESSARY TO PROVIDE SHEETING, SHORING, AND BRACING OR SUPPORTS AS REQUIRED TO PROVIDE SAFE WORKING CONDITIONS FOR CONTRACTOR'S PERSONNEL AND TO PROVIDE FOR PROTECTION OF UTILITIES, BUILDINGS, LEVEES, AND STRUCTURES. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THESE REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE SYSTEM TO WITHSTAND LATERAL PRESSURE. SHEET DESIGN AND INSTALLATION SHALL BE INCLUDED IN THE COST OF THE PIPE OR STRUCTURAL INSTALLATION.
8. CONTRACTOR SHALL RE-GRADE ALL AREAS AFFECTED BY CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE. WORK SHALL BE IN A WORKMAN LIKE MANNER AND IN ACCORDANCE WITH A/E REQUIREMENTS. IF CONTRACTOR DETERMINES THAT ANY AREAS AFFECTED BY CONSTRUCTION CANNOT BE RE-GRADED TO DRAIN, CONTRACTOR SHALL DOCUMENT (I.E., TAKE ELEVATIONS, PICTURES, ETC.) EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
9. ALL DRIVEWAYS DISRUPTED BY EXCAVATION SHALL BE RESTORED USING LIKE MATERIAL TO ORIGINAL OR BETTER CONDITION.
10. CONTRACTOR SHALL GIVE THOSE AFFECTED BY CONSTRUCTION 24 HOURS NOTICE PRIOR TO DISRUPTION OF DRIVEWAYS. DRIVEWAYS AND STREETS SHALL NOT REMAIN CLOSED OVERNIGHT.
11. CONTRACTOR SHALL NOTIFY THOSE AFFECTED BY CONSTRUCTION 24 HOURS PRIOR TO DISRUPTION OF WATER, SEWER OF OTHER UTILITY SERVICE. UTILITY SERVICES SHALL BE PROMPTLY REPAIRED AND NOT REMAIN OUT OF SERVICE OVERNIGHT.
12. CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS OPERATIONS AS TO ENSURE THE LEAST INCONVENIENCE TO THE GENERAL PUBLIC AND ADJACENT PROPERTY OWNERS.
    A. CONTRACTOR SHALL PROVIDE ACCESS TO COMMERCIAL/INDUSTRIAL PROPERTIES AT ALL TIMES.
    B. CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. VEHICULAR ACCESS SHALL BE PROVIDED AS DIRECTED BY ENGINEER. UPON APPROVAL BY ENGINEER, VEHICULAR ACCESS MAY BE LIMITED DURING PAVING OF DRIVEWAYS. CONTRACTOR SHALL CONTACT AND ADVISE ALL AFFECTED PROPERTY OWNERS.
13. CONTRACTOR SHALL COORDINATE AND PAY FOR THE DE-ENERGIZING AND RE-ENERGIZING OF POWER LINES FOR CONSTRUCTION PURPOSES AS REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES.
14. CONTRACTOR SHALL BRACE UTILITY POLES ADJACENT TO EXCAVATION. BRACING SHALL REMAIN IN PLACE AFTER BACKFILLING UNTIL COMPACTION STANDARDS HAVE BEEN MET. COMPLETE WORK PROMPTLY ONCE EXCAVATION HAS BEGUN ADJACENT TO POLES.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DIRECTLY WITH THE APPROPRIATE UTILITY COMPANIES TO HAVE THE UTILITIES RELOCATED.
16. BACKFILL ALL UTILITY CROSSINGS, EXCAVATION UNDER THE ROADWAY AND SHOULDER WITH GRANULAR MATERIAL.
17. PRIOR TO PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL VERIFY EXISTING INVERTS AND TIE-INS. IF DISCREPANCIES ARE FOUND, NOTIFY CIVIL ENGINEER IMMEDIATELY TO DETERMINE ANY REQUIRED ADJUSTMENTS.
18. ALL ELEVATIONS REFER TO OWNER-PROVIDED SURVEY.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND ABIDING BY REQUIRED LA DEQ STORMWATER DISCHARGE PERMIT FOR CONSTRUCTION ACTIVITIES.

1 CIVIL CONSTRUCTION NOTES
NOT TO SCALE

February 20, 2017

DRAINAGE NOTES

1. ALL PLASTIC PIPE (A2000 PVC OR EQUAL) SHALL CONFORM TO SECTION 1006.07 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION.
2. ALL JOINTS FOR PVC PIPE SHALL BE TYPE 3 AND CONFORM TO SECTION 1006.05 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION.
3. ALL PIPE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 701 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION.
4. PIPE SHALL BE INSTALLED BEGINNING AT THE DOWNSTREAM END. THE BELLS SHALL BE FACING UPSTREAM. PIPE SHALL BE LAID IN CONTACT WITH THE FOUNDATION ALONG THE ENTIRE LENGTH OF THE PIPE.
5. PIPE JOINTS SHALL BE WRAPPED WITH A GEOTEXTILE FABRIC A MINIMUM OF 12" ON EACH SIDE OF THE JOINT FOR PIPE 36" AND SMALLER AND 18" ON EACH SIDE OF THE JOINT FOR LARGER PIPE. THE ENDS OF THE FABRIC SHALL BE LAPPED A MINIMUM OF 10" AND FABRIC SHALL BE FIRMLY SECURED TO PIPE.
6. PVC DRAIN PIPES BENEATH PROPOSED ROADWAY SHALL HAVE A MINIMUM DEPTH OF COVER OF TWO (2) FEET DURING CONSTRUCTION. MATERIAL SHALL BE ADDED AS REQUIRED TO MAINTAIN THE MIN. OF TWO (2) FEET OF COVER PRIOR TO PLACEMENT OF CONCRETE.
7. CONTRACTOR SHALL SUPPLY THE ENGINEER WITH AS-BUILT DRAWINGS UPON COMPLETION OF DRAINAGE WORK.
8. PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF CATCH BASIN.
9. ALL DITCHES AND CANAL SIDE SLOPES SHALL BE HYDRO-SEEDED, SODDED OR APPROVED EQUAL.
10. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE HYDRO-SEEDED UNLESS RECEIVING NEW LANDSCAPING.
11. ALL DOWNSPOUTS FROM BUILDINGS, CANOPIES, ETC. SHALL TIE INTO PROPOSED SUBSURFACE DRAINAGE SYSTEM. CONTRACTOR SHALL USE 6" PVC PIPE (S=0.1% MIN.) UNLESS OTHERWISE NOTED. CONTRACTOR SHALL USE PVC SADDLES, TEES, BENDS, ETC. AS NECESSARY TO TIE DOWNSPOUTS INTO SUBSURFACE DRAINAGE SYSTEM. COORDINATE WITH ARCHITECT AND CIVIL ENGINEER TO ENSURE THAT ALL DOWNSPOUTS ARE TIED INTO DRAINAGE SYSTEM.
12. ALL DRAIN PIPE AND FITTINGS SHALL BE PVC SCHEDULE 40 SOLID WALL PIPE, IPS, PER ASTM D1785 AND ASTM D2665.
13. PVC CATCH BASINS SHALL BE 18"x18" ONE-PIECE TAPERED CATCH BASINS, STRUCTURAL FOAM POLYOLEFIN BY NDS OR APPROVED EQUAL. ADDITIONAL RISERS SHALL BE UTILIZED AS NECESSARY TO ACHIEVE ELEVATIONS INDICATED ON PLANS. GRATES SHALL BE 18" SQUARE STRUCTURAL FOAM POLYOLEFIN GRATE WITH UV INHIBITOR. COLOR SHALL BE SELECTED BY ARCHITECT FROM STANDARD AVAILABLE COLORS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
14. ALL CATCH BASINS IN PARKING AREAS SHALL BE PRECAST CONCRETE COMPLYING WITH SEC 702 OF LOUISIANA STANDARDS FOR ROADS AND BRIDGES, 2006 EDITION.

PAVEMENT NOTES

1. IN AREAS TO RECEIVE PAVEMENTS, THE SUBGRADE SHALL BE EXCAVATED AND HAULED OFF TO A DEPTH NECESSARY TO REMOVE NON-STRUCTURAL FILL, ROOTS, ORGANICS AND OTHER DELETERIOUS MATERIALS. ALL EXCAVATION AND BACKFILL FOR PAVEMENT WORK SHALL EXTEND AT LEAST ONE (1) FOOT BEYOND FOOTPRINT OF PAVEMENT. THE AREA SHALL THEN BE PROOF ROLLED TO IDENTIFY ANY WEAK SPOTS PRIOR TO PLACING BASE COURSE. PROOF ROLLING SHALL OCCUR WITHIN 48 HOURS OF THE PLACEMENT OF FILL OVER EXISTING SUBGRADE.
2. ALL SUBGRADE MATERIAL WHICH WILL NOT SATISFACTORILY COMPACT SHALL BE REMOVED AND REPLACE WITH STRUCTURAL FILL THAT WILL COMPACT SATISFACTORILY. TOP 12 INCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR. WHERE THE SUBGRADE IS OF NON-UNIFORM COMPACTED NATURE, IT SHALL BE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES FOR ITS FULL WIDTH AND THE MATERIAL SPREAD AND BROUGHT TO LINE AND GRADE AND COMPACTED AS SPECIFIED ABOVE.
3. THE SAND BASE UNDER THE RIGID PAVEMENT SHALL MEET THE REQUIREMENTS OF LSSRB, SECTION 1003.07. THE SAND BASE SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D698 (STANDARD PROCTOR) WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
4. BASE COURSE FOR CONCRETE PAVEMENT SHALL CONSIST OF 12 INCHES (MIN.) OF CLEAN RIVER SAND AS ADDITIONAL BASE COURSE OVER THE MINIMUM MAY BE REQUIRED TO BRING PAVEMENT UP TO REQUIRED GRADES. BASE COURSE FOR CONCRETE SIDEWALKS SHALL CONSIST OF 6 INCHES (MIN.) OF STRUCTURAL FILL AS DESCRIBED ABOVE.
5. BASE COURSE SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 6 INCHES IN THICKNESS AND COMPACTED TO 95% OF ITS MAX. DRY DENSITY NEAR ±2% OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
6. PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE LSSRB FOR TYPE B CONCRETE AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI FOR 28 DAYS. CONCRETE FOR SIDEWALKS SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI FOR 28 DAYS.
7. CONCRETE PAVEMENT FOR PARKING AND DRIVES SHALL HAVE A MEDIUM-TO-FINE-TEXTURED BROOM TYPE FINISH. CONCRETE SIDEWALKS SHALL HAVE A LIGHT BROOM-TEXTURED FINISH.
8. JOINT LAYOUT SHOWN ON DRAWINGS IS SUGGESTED. ALL JOINTS ARE TO BE USED WHERE SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONCRETE PANELS SHALL NOT EXCEED TWELVE (12) FEET IN ANY DIRECTION AS SHOWN ON THE PLANS.
9. PAVEMENT SHALL NOT BE OPENED TO TRAFFIC AFTER PLACEMENT UNTIL DESIGN STRENGTH IS MET WITHOUT THE APPROVAL OF THE ENGINEER.
10. ALL DRAINAGE AND SEWER STRUCTURES WITHIN THE PAVEMENT AREA SHALL BE BOXED OUT WITH EXPANSION JOINTS.
11. NO CONCRETE SHALL BE POURED WITHOUT THE SERVICES OF THE TESTING LAB TECHNICIAN TO WITNESS THE POUR, MAKE SLUMP TESTS AND MAKE TEST CYLINDERS.
12. IMMEDIATELY AFTER COMPLETION OF FINISHING OPERATIONS AND AS SOON AS MARRING OF CONCRETE WILL NOT OCCUR, THE PAVEMENT SURFACE SHALL BE CURED BY COVERING WITH A WHITE PIGMENTED CURING COMPOUND IN CONFORMANCE WITH DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES LATEST EDITION.
13. JOINT SEALER SHALL BE IN ACCORDANCE WITH SECTION 1005.02 OF DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (LATEST EDITION). THE SEALANT AND BACKER MATERIALS SHALL BE APPROVED PRODUCTS LISTED IN DOTD'S QUALIFIED PRODUCT LIST 67.
14. JOINTS ENDING AT CURVES SHALL BE CARRIED ONTO THE CURB AND PAVEMENT AT RIGHT ANGLES TO THE TANGENT AT THAT POINT.
15. AN APPROVED TESTING LABORATORY, SELECTED BY THE OWNER AND SHALL PROVIDE ALL REQUIRED TESTING. TEST REPORTS MUST BE FURNISHED TO THE ENGINEER AND CONTRACTOR.
16. CONTRACTOR SHALL PROVIDE MEANS FOR TEMPORARY DRAINAGE DURING CONSTRUCTION.
17. CONTRACTOR SHALL INSTALL CONCRETE SIDEWALK AT GRADES SHOWN AND SHALL COMPLY WITH ALL APPLICABLE ADA STANDARDS.
18. CONTRACTOR SHALL ADJUST GRADE BREAK LOCATIONS OF SIDEWALKS TO COINCIDE WITH NECESSARY JOINT SPACING AS LONG AS ADA REQUIREMENTS ARE MET.
19. CONTRACTOR SHALL BACKFILL AND GRADE BEHIND CONCRETE SIDEWALKS TO ALLOW FOR POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS.

WATER SYSTEM NOTES

1. PVC WATERLINES SHALL BE BLUE IN COLOR, (CITY OF SLIDELL STANDARD); CLASS 150 POLYVINYL CHLORIDE PIPE MANUFACTURED IN ACCORDANCE WITH AWWA C900 (LATEST EDITION) AND SHALL BE U.L. LISTED. PIPE SHALL BE FURNISHED IN STANDARD LENGTHS (MINIMUM 20 FEET) WITH INTEGRALLY CAST BELLS OR COUPLINGS USING ELASTOMERIC GASKETS WHICH MEET THE REQUIREMENTS OF ASTM D1869 AND F477. ALL NECESSARY ADAPTERS AND RETAINING GLANDS FOR CONNECTION TO FITTINGS SHALL BE PROVIDED.
2. CONTRACTOR SHALL USE TRANSITIONAL COUPLING FOR PE TO PVC CONNECTIONS.
3. PARALLEL WATERLINES AND SEWERS (INCLUDING GRAVITY AND FORCE MAINS) SHALL BE LAID IN SEPARATE TRENCHES NOT LESS THAN 10 FEET APART HORIZONTALLY. CROSSING WATER AND SEWER LINES SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18 INCHES. THE WATER LINE SHALL BE LAID HIGHER IN ELEVATION THAN THE SEWER LINE.
4. FITTINGS SHALL BE RESTRAINED JOINT DUCTILE IRON WITH MEGALUG AND TEFLON COATED CORE-TEN BOLTS AND NUTS. THRUST BLOCKS SHALL BE USED WITH ALL FITTINGS. FITTINGS SHALL BE FURNISHED WITH FUSION BONDED EPOXY COATING CONFORMING TO AWWA C116 AND AWWAC213.
5. CONTRACTOR SHALL INSTALL RESTRAINED JOINT PIPE (20' MIN.) ON EACH SIDE OF ALL FITTINGS FOR WATERLINE.
6. WATER VALVES 3 INCHES OR LARGER SHALL BE AWWA C-509 RESILIENT-SEATED GATE VALVES FOR WATER SUPPLY SERVICE. VALVES SHALL BE MUELLER SERIES 2360, M & H OR APPROVED EQUAL RESTRAINED JOINT WITH MEGALUG AND TEFLON COATED CORE-TEN BOLTS AND NUTS.
7. BURIED VALVES, INCLUDING 2 INCH VALVES, SHALL HAVE A THREE PIECE CAST IRON VALVE BOX INSTALLED AND ADJUSTED TO FINISHED GRADE. BURIED VALVES SHALL HAVE AN AWWA OPERATING NUT AND A BOX COVER LABELED "WATER". EACH VALVE BOX SHALL HAVE A 24 INCH SQUARE OR 24 INCH ROUND BY 4 INCH THICK CONCRETE PAD, EITHER CAST IN PLACE OR PREFABRICATED AND ADJUSTED TO FINISHED GRADE.
8. FURNISH AND INSTALL FIRE HYDRANT - 5 ¼", 3-WAY: NEW FIRE HYDRANTS SHALL BE A THREE-WAY MUELLER CENTURION NO. A 423, KENNEDY GUARDIAN, AMERICAN DARLING B-84-B, OR APPROVED EQUAL WITH 5 ¼" VALVE OPENING. THE LENGTH OF THE LOWER SECTION OF EACH HYDRANT SHALL BE APPROPRIATE FOR THE DEPTH OF THE WATER MAIN. ALL NEW HYDRANTS SHALL BE PAINTED CHROME YELLOW. NO EXISTING FIRE HYDRANT IN THE VICINITY OF A NEW HYDRANT SHALL BE REMOVED FROM SERVICE UNTIL THE NEW HYDRANT HAS BEEN INSTALLED, TESTED AND WATER SYSTEM PRESSURE IS ON THE HYDRANT. LUBRICATE CAPS AND THREADS WITH APPROVED LUBRICANT.
9. THE BARREL OF EACH FIRE HYDRANT SHALL BE PAINTED CHROME YELLOW AND THE TOP AND NOZZLE CAPS OF EACH FIRE HYDRANT SHALL BE PAINTED TO SIGNIFY THE CLASSIFICATION OF ITS RELATIVE WATER FLOW CAPACITY ACCORDING TO THE UNIFORM COLOR SCHEME BY CITY OF SLIDELL. VERIFY WITH CITY AND FIRE DEPARTMENT PRIOR TO PAINTING.
10. WATER LINES SHALL BE TESTED IN ACCORDANCE WITH SECTION 02665 OF THE SPECIFICATIONS.
11. WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH LAC 51:XII.353.A AND APPROVED BY THE LOUISIANA DEPARTMENT OF HEALTH AND HOSPITALS BEFORE BEING PLACED INTO SERVICE.
12. BRASS FITTINGS SHALL BE MUELLER.
13. BLUE IDENTIFICATION TAPE AND TRACER WIRE SHALL BE USED ON ALL BURIED SERVICE WATERLINES PROVIDING POTABLE WATER. RED IDENTIFICATION TAPE AND TRACER WIRE SHALL BE USED ON ALL BURIED FIRE PROTECTION WATERLINE. IN ADDITION, ALL FIRE PROTECTION WATERLINE ABOVE GROUND SHALL BE PAINTED RED TO DISTINGUISH IT FROM POTABLE WATERLINE.
14. "AS-BUILT" DRAWINGS SHOWING THE LOCATION OF THE VALVES, HYDRANTS, TEES, BENDS, ETC., AND, DISTANCES BETWEEN AND TO PROPERTY LINES AND BUILDINGS SHALL BE FURNISHED TO THE UTILITY COMPANY. DRAWINGS SHALL BE FURNISHED IN ELECTRONIC MEDIA, IN BOTH AUTOCAD FORMAT AND PDF FORMAT.
15. CONTRACTOR SHALL INSTALL DOUBLE - CHECK BACK FLOW PREVENTERS IN ACCORDANCE WITH AWWA C510 AND AS SHOWN ON DRAWINGS.
16. SEE SHEET C4.0 FOR LOCATIONS OF ALL WATER SERVICE LINES, METERS, ETC.
17. WATER SERVICE LINES SHALL BE PE-3408 BLACK TUBING OF NOMINAL SIZES FROM ¾" THROUGH 2", ALL WITH CTS (COPPER TUBING SIZE) OUTSIDE DIAMETER AND A 200 PSI RATING AT 73.4° F. ALL WATER SERVICE TUBING SHALL COMPLY WITH ASTM D2737, SDR 9. INSTALLATION OF TUBING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. CARE SHALL BE EXERCISED AND PROPER PROCEDURES FOLLOWED IN TUBING TERMINATIONS, WITH TOOLS APPROVED BY THE MANUFACTURER FOR THIS PURPOSE. C-900 WATER PIPE WILL BE ACCEPTABLE FOR PIPE SIZES 2 INCHES AND GREATER. CORPORATION STOPS AT A MAIN AND WATER METER SHALL BE FORD OR APPROVED EQUAL OF THE APPROPRIATE TYPE AND SIZE. THE STOPS SHALL BE INSTALLED IN THE MAIN IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATIONS. CARE SHOULD BE TAKEN TO NOT OVER OR UNDER TIGHTEN THE STOPS AT POINTS WHERE THEY ENTER THE MAIN.
18. SUPPLY CITY OF SLIDELL WITH AS-BUILT OF WATER LINE.

REQUIRED TESTING SERVICES

THE FOLLOWING TESTING SERVICES SHALL BE PERFORMED BY AN INDEPENDENT TESTING COMPANY AS SELECTED BY THE ENGINEER/OWNER TO ENSURE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. ALL FEES ASSOCIATED WITH REQUIRED TESTING SHALL BE PAID FOR DIRECTLY BY THE OWNER.

1. BASE COURSE/STRUCTURAL FILL:
    A. PICK-UP OF SAMPLES OF PROPOSED BASE COURSE MATERIALS, INCLUDING BEDDING AND BACKFILL MATERIAL FOR DRAINAGE PIPE AND STRUCTURES.
    B. IN-LAB GRADATION AND PROCTOR TESTING OF SAMPLES FOR CONFORMANCE WITH SPECIFICATIONS.
    C. IN-FIELD NUCLEAR DENSITY TESTING OF FILL (MIN. 4 TESTS PER 200 SQ. YDS. PER LIFT OF SECTION TO BE POURED).
    D. IN-FIELD NUCLEAR DENSITY TESTING OF DRAINAGE PIPE/STRUCTURE BEDDING AND BACKFILL (MIN. 1 TEST PER 250 LINEAR FEET PER LIFT OF EACH MATERIAL).
2. CONCRETE PAVEMENT:
    A. REVIEW OF ALL CONCRETE MIX DESIGNS PROPOSED FOR USE ON PROJECT.
    B. OBTAINING AND TESTING ONE (1) SET OF CYLINDERS (4 PER SET) FOR EACH 50 CU. YDS. OR PORTION THEREOF PER DAY. ONE (1) CYLINDER SHALL BE BROKEN AT SEVEN (7) DAYS AND THE OTHER TWO (2) SHALL BE BROKEN AT TWENTY-EIGHT (28) DAYS. ONE (1) CYLINDER SHALL BE KEPT IN RESERVE.
3. ANY OTHER TESTS SPECIFIED ON DRAWINGS OR SPECIFICATIONS AND AS DIRECTED BY ENGINEER TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS.

SEWER SYSTEM NOTES

1. GRAVITY SEWER PIPE (INCLUDING HOUSE CONNECTIONS) SHALL BE POLYVINYL CHLORIDE GASKET JOINT CONFORMING TO SECTION 02800 OF THE SPECIFICATIONS.
2. FORCE MAIN FOR HDD SHALL BE HDPE DR11 AND CONFORM TO ASTM B3350 & ASTM F714.
3. FORCE MAIN PIPE SHALL BE POLYVINYL CHLORIDE GASKET JOINT CLASS 160 (SDR-26) TYPE 1, GRADE 1, ASTM D2241, WITH "FLUID TITE" COUPLINGS CONFORMING TO ASTM D1784. RUBBER GASKETS SHALL BE ASTM F477.
4. FITTINGS FOR FORCE MAIN PIPE SHALL BE RESTRAINED JOINT DUCTILE IRON WITH MEGALUG AND TEFLON COATED CORE-TEN BOLTS AND NUTS. CONCRETE THRUST BLOCKS SHALL BE USED WITH ALL FITTINGS. ALL FITTING SHALL BE FURNISHED WITH FUSION BONDED EPOXY COATING.
5. CONTRACTOR SHALL INSTALL RESTRAINED JOINT PIPE (20' MIN.) ON EACH SIDE OF ALL FITTINGS FOR SEWER FORCE MAIN.
6. IDENTIFICATION TAPE OR TRACER WIRE SHALL BE BURIED IN THE TRENCH ABOVE THE FORCE MAIN PIPE.
7. FORCE MAINS SHALL PASS A HYDROSTATIC PRESSURE TEST OF 100 POUNDS PER SQUARE INCH FOR TWO HOURS. AN INDEPENDENT TESTING LAB OR THE UTILITY COMPANY SHALL VIEW THE TEST.
8. PUMP STATIONS SHALL BE FURNISHED WITH 208 VOLT, 3 PHASE ELECTRICAL POWER SERVICE. VERIFY WITH PUMP STATION DRAWINGS.
9. THE CITY OF SLIDELL SHALL BE FURNISHED WITH "AS-BUILT" DRAWINGS SHOWING THE ENTIRE SEWER SYSTEM INCLUDING ALL PIPELINES AND AS FOLLOWS:
    - LOCATION AND DEPTH OF SFM IN R.O.W.
    -LOCATION OF TIE-IN TO EXISTING S.F.M.
    -LOCATION OF ANY VALVES.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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REGISTERED
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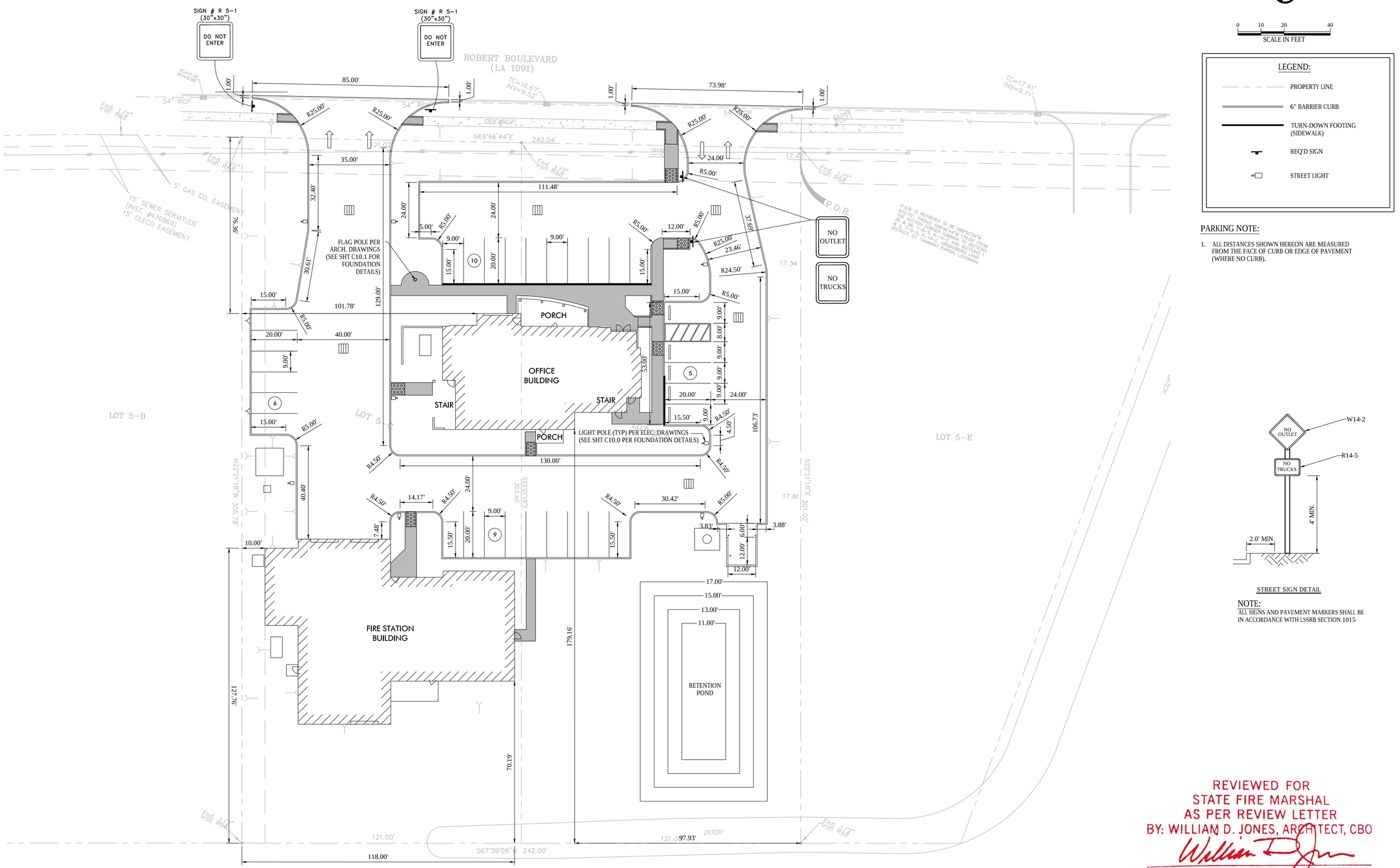
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No.	Description	Date

PROJ. #. C16-0058

date
FEBRUARY 23, 2017

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0 10 20 40
SCALE IN FEET

LEGEND:

- PROPERTY LINE
- 6" BARRIER CURB
- TURN-DOWN FOOTING (SIDEWALK)
- REQ'D SIGN
- STREET LIGHT

PARKING NOTE:

1. ALL DISTANCES SHOWN HEREON ARE MEASURED FROM THE FACE OF CURB OR EDGE OF PAVEMENT (WHERE NO CURB).

STREET SIGN DETAIL

NOTE:
ALL SIGNS AND PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH LSSRB SECTION 1015

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1 GEOMETRIC & SIGNAGE PLAN
1" = 20'-0"

February 20, 2017

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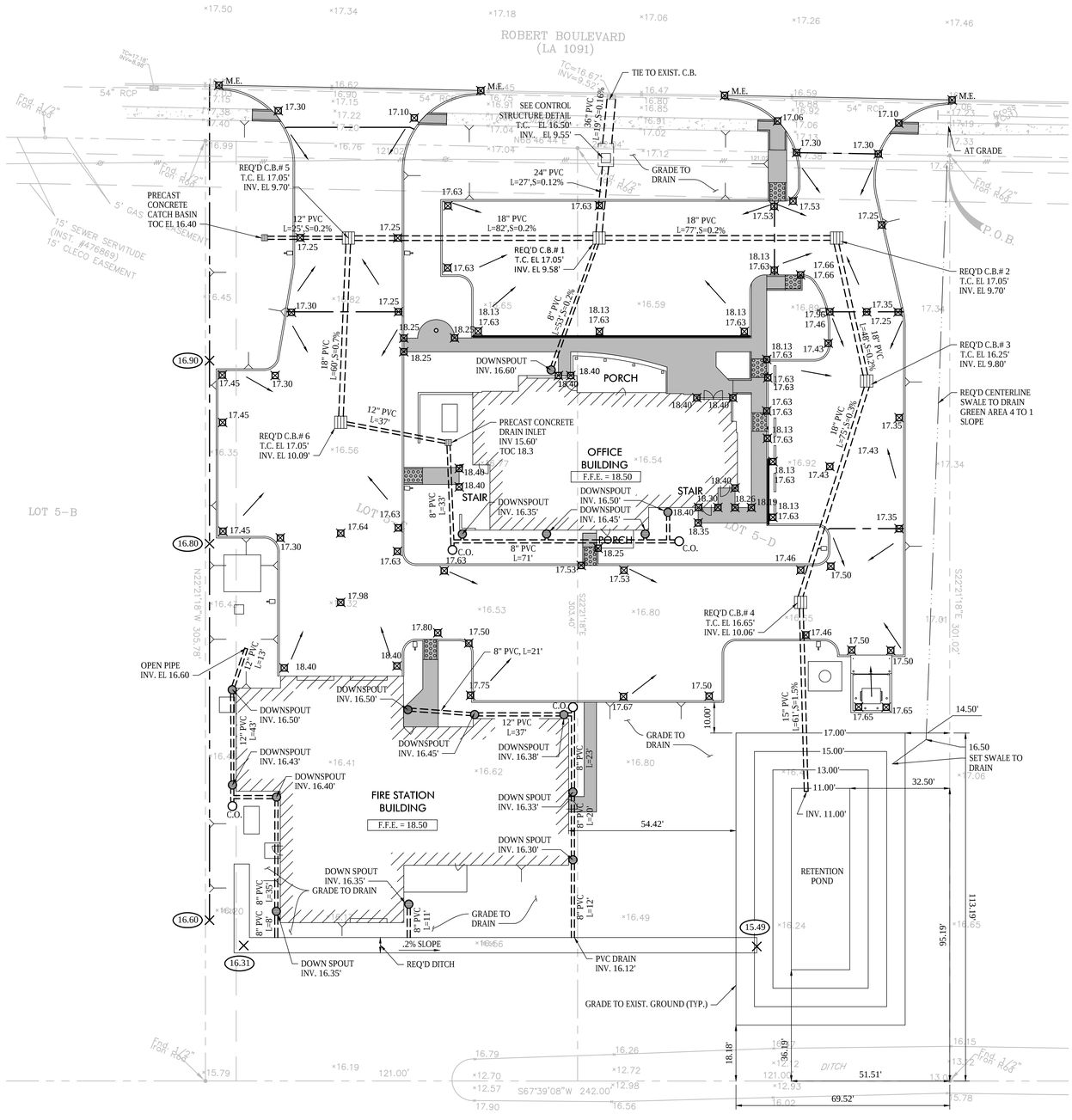
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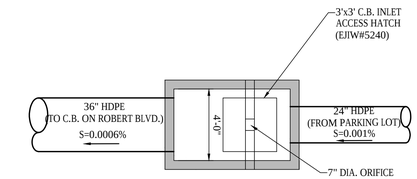
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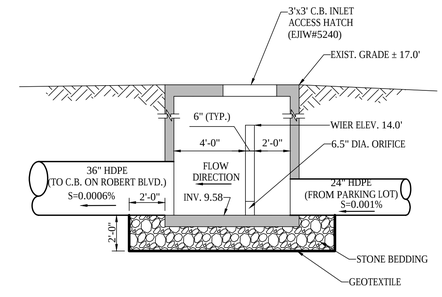
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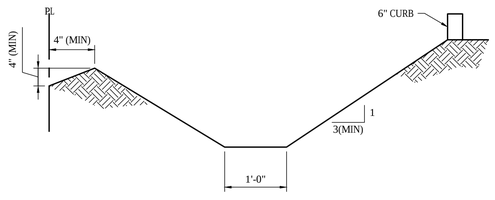
PLAN VIEW

SCALE: 1" = 4'-0"



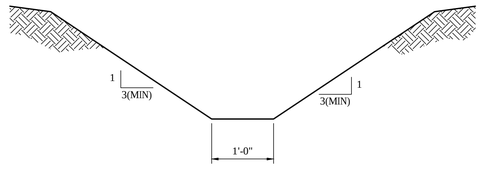
ELEVATION VIEW

SCALE: 1" = 4'-0"



TYPICAL GRADING AT PROPERTY LINE

SCALE: NTS



TYPICAL DITCH SECTION

SCALE: NTS



LEGEND:

- PROPERTY LINE
- REQ'D DRAIN LINE
- CROWN / RIDGE
- SWALE/DITCH
- REQ'D CATCH BASIN
- TIE DOWNSPOUT INTO SUBSURFACE DRAINAGE
- SPLASH PAD WITH DOWNSPOUT
- C.O. REQ'D CLEANOUT
- FLOW ARROW
- REQ'D PVC CATCH BASIN ASSEMBLY (CAST IRON GRATE)
- 21.19 PROPOSED GRADE (TOP OF SIDEWALK/PAVEMENT)
- 21.19 TOP OF SIDEWALK
- 20.69 TOP OF PAVEMENT
- 5.25 FINISHED GRADE
- ×16.55 EXISTING GRADES
- M.E. MATCH EXISTING GRADE
- V.I.F. VERIFY IN FIELD

NOTES:

1. UTILITIES SHOWN FOR GENERAL COORDINATION. SEE UTILITY PLAN FOR SPECIFIC INFORMATION (SHEET C4.0).
2. CONTRACTOR SHALL VERIFY ELEVATIONS OF EXISTING SIDEWALKS AND ADJUST PROPOSED GRADES AS NECESSARY TO ABIDE BY ALL APPLICABLE ADA GUIDELINES. COORDINATE WITH CIVIL ENGINEER IN FIELD.
3. COORDINATE WITH ARCHITECTURAL/MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF DOWNSPOUTS. ADJUST LOCATIONS OF PVC CATCH BASIN ASSEMBLIES AS NECESSARY.
4. CONTRACTOR SHALL CONFIRM EXIST. DITCH AND SIDEWALK ELEVATIONS PRIOR TO CONSTRUCTION. COORDINATE WITH ENGINEER ON ANY REQUIRED ADJUSTMENTS.
5. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL/STRUCTURAL DRAWINGS FOR EXACT LIMITS OF STAIR PLATFORMS AND SIDEWALKS.
6. POND BOTTOM AND SIDES TO BE HYDRO SEEDED , REFER TO LANDSCAPE DRAWINGS .

REVIEWED FOR
STATE FIRE MARSHAL
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1 GRADING & DRAINAGE PLAN
1" = 20'-0"

February 20, 2017

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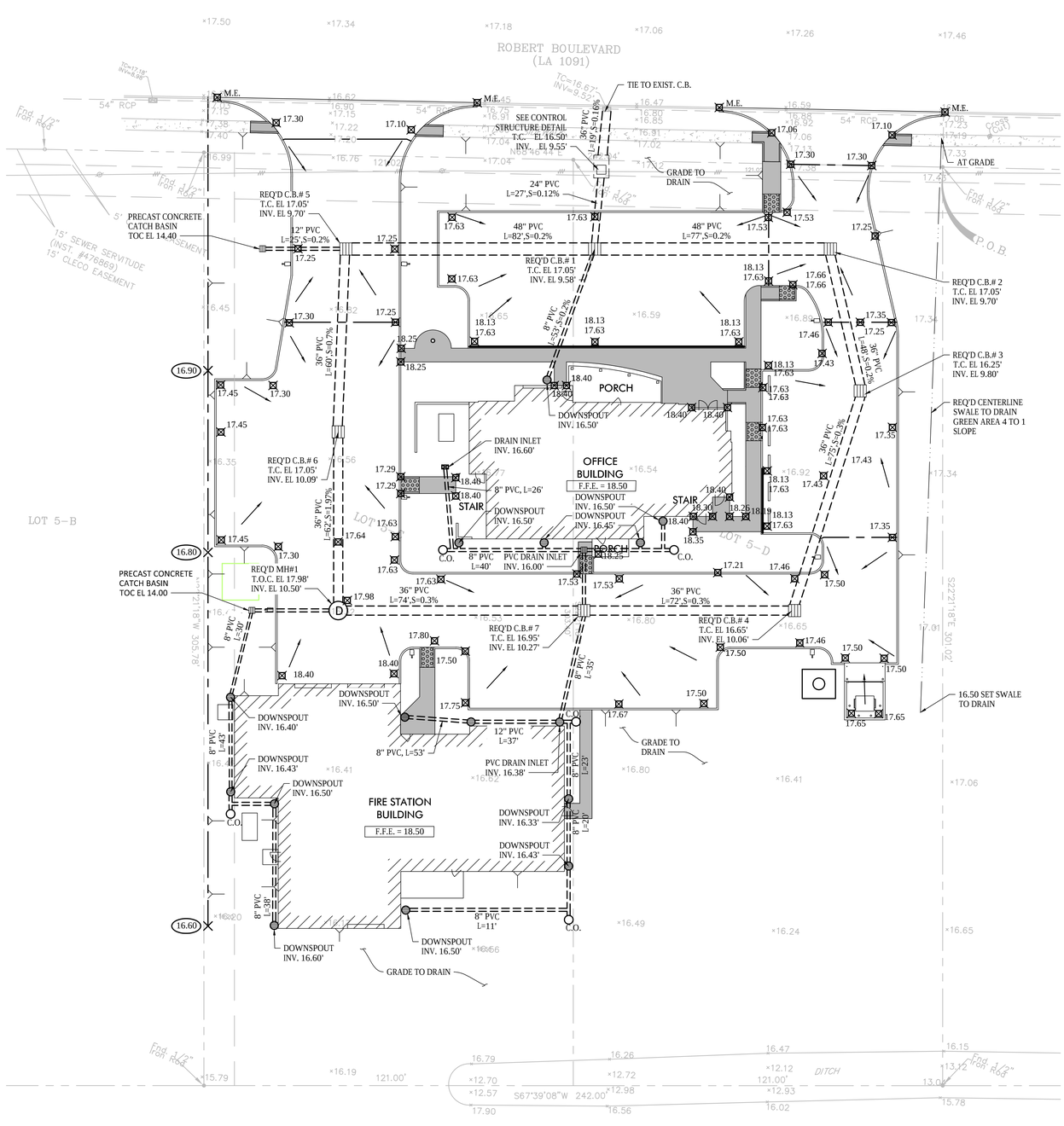
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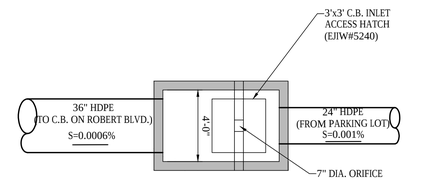
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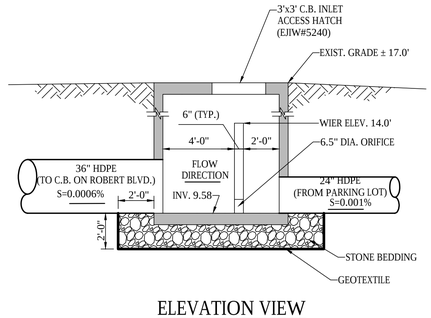
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PLAN VIEW

SCALE: 1" = 4'-0"



ELEVATION VIEW

SCALE: 1" = 4'-0"



LEGEND:

- PROPERTY LINE
- REQ'D DRAIN LINE
- CROWN / RIDGE
- SWALE/DITCH
- REQ'D CATCH BASIN
- TIE DOWNSPOUT INTO SUBSURFACE DRAINAGE
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3. COORDINATE WITH ARCHITECTURAL/MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF DOWNSPOUTS. ADJUST LOCATIONS OF PVC CATCH BASIN ASSEMBLIES AS NECESSARY.
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REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
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GRADING & DRAINAGE PLAN
ALTERNATE 1, PIPE STORAGE

1

1" = 20'-0"

February 20, 2017

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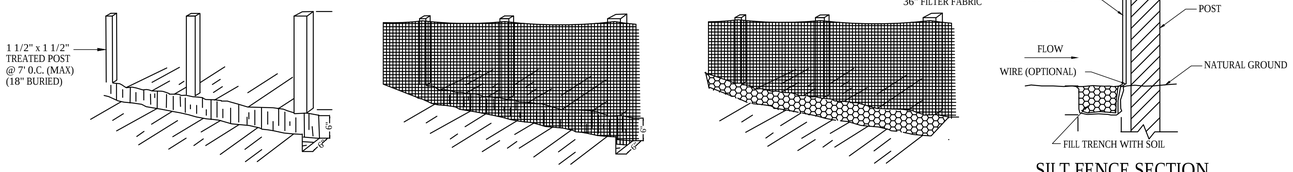
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1. SET POSTS AND EXCAVATE A 6" X 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS

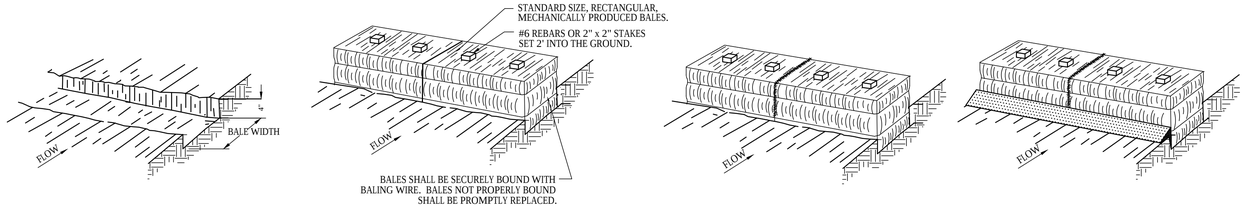
2. ATTACH THE FILTER FABRIC TO TREATED POSTS AND EXTEND IT INTO THE TRENCH. FILTER FABRIC SHALL BE IN ACCORDANCE WITH CONTRACT SPECIFICATIONS.

3. BACKFILL TRENCH WITH SOIL.



SILT FENCE
N.T.S.

SILT FENCE SECTION
N.T.S.



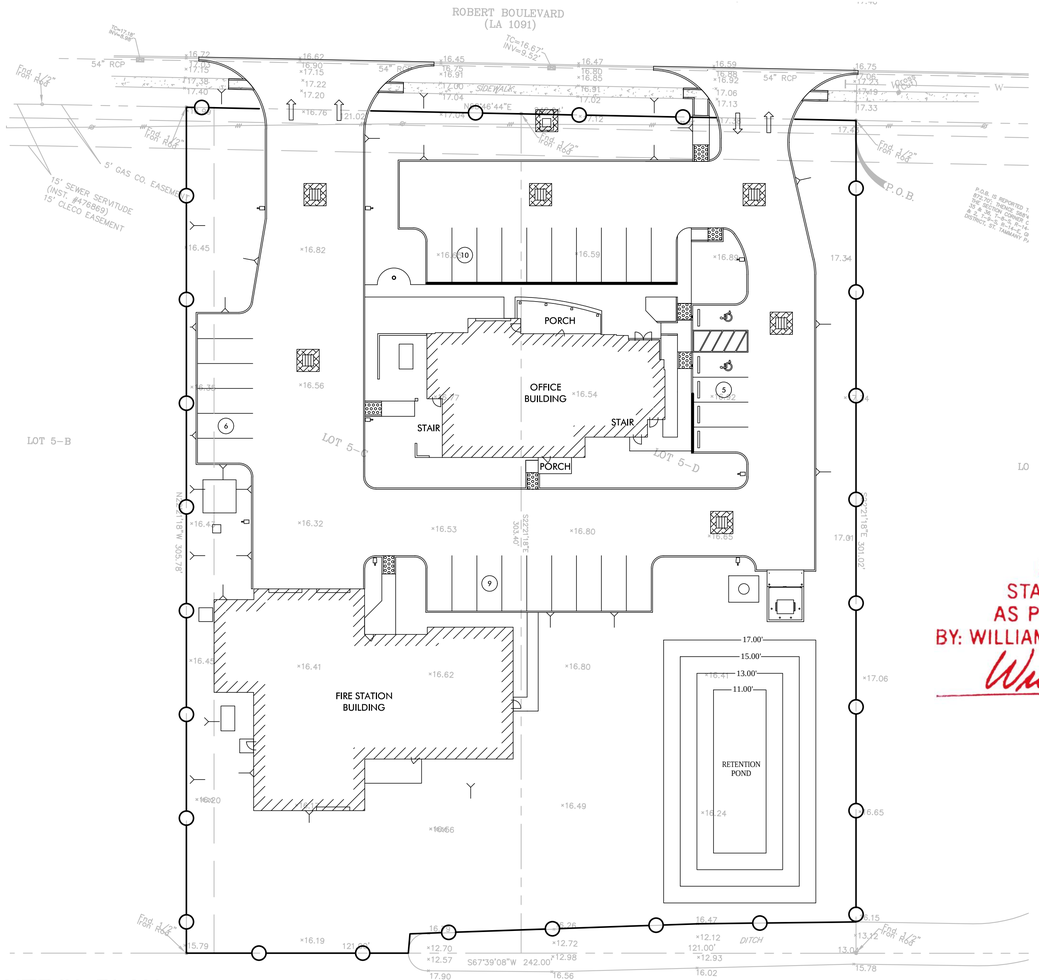
1. EXCAVATE THE TRENCH

2. PLACE AND STAKE STRAW BALES.

3. WEDGE LOOSE STRAW BETWEEN BALES.

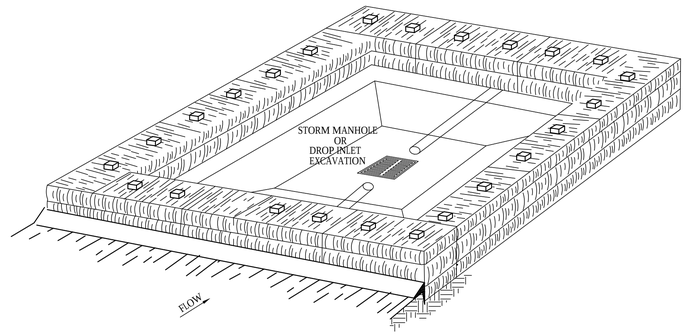
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

HAY BALE BARRIER
N.T.S.



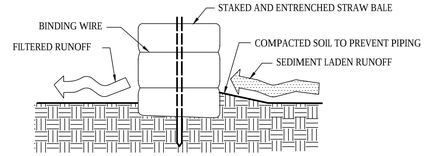
REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

N.T.S.



DETAIL OF INLET BARRIER *

*CONTRACTOR MAY USE 6 OZ. FILTER FABRIC WRAPPED AROUND DROP INLET GRATE IN LIEU OF STRAW BALES AFTER DROP INLETS ARE IN PLACE. CONTRACTOR SHALL MAINTAIN FABRIC FREE OF MUD AND TRASH.



HAY BALE SECTION
N.T.S.

EROSION CONTROL NOTES

1. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE.
2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SUCH AS PONDS, SILT FENCING, HAY BALES, ETC. SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
3. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. THE LOCATIONS OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.
5. EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RAIN AND REPAIRED BY GENERAL CONTRACTOR.
6. EROSION CONTROL DEVICES SHALL BE CLEANED WHEN SILT EXCEEDS 12" IN DEPTH AND FURTHER REPAIRED AS NECESSARY TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.
7. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED AND THEN REMOVED WHEN DIRECTED BY THE CIVIL ENGINEER.
8. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
9. ALL DISTURBED AREAS WITH SLOPES 2:1 OR FLATTER WHICH ARE NOT STABILIZED BY OTHER MEASURES SHALL BE SEEDED.
10. ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY THE CIVIL ENGINEER.
11. CONTRACTOR SHALL REMOVE ALL DIRT AND TRASH FOR NEW AND EXISTING PIPES WHICH MAY BE DISPOSED DURING CONSTRUCTION.

LEGEND:
- PROPERTY LINE
- SILT FENCE
- HAY BALES
- INLET BARRIER
- PVC INLET BARRIER

1 EROSION CONTROL PLAN
1" = 20'-0"

February 20, 2017

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985.778.2080 ph

STATE OF LOUISIANA
JEFFREY D. WILSON
No. 21945
PROFESSIONAL ENGINEER
7-23
CIVIL ENGINEERING

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St. Tammany Fire Protection District No.1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
CRUMB ENGINEERING LLC
4609 FAIRFIELD STREET
METAIRIE, LA 70006
504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
638 VILLAGE LANE NORTH
MANDEVILLE, LA 70471
985.727.9377

revisions

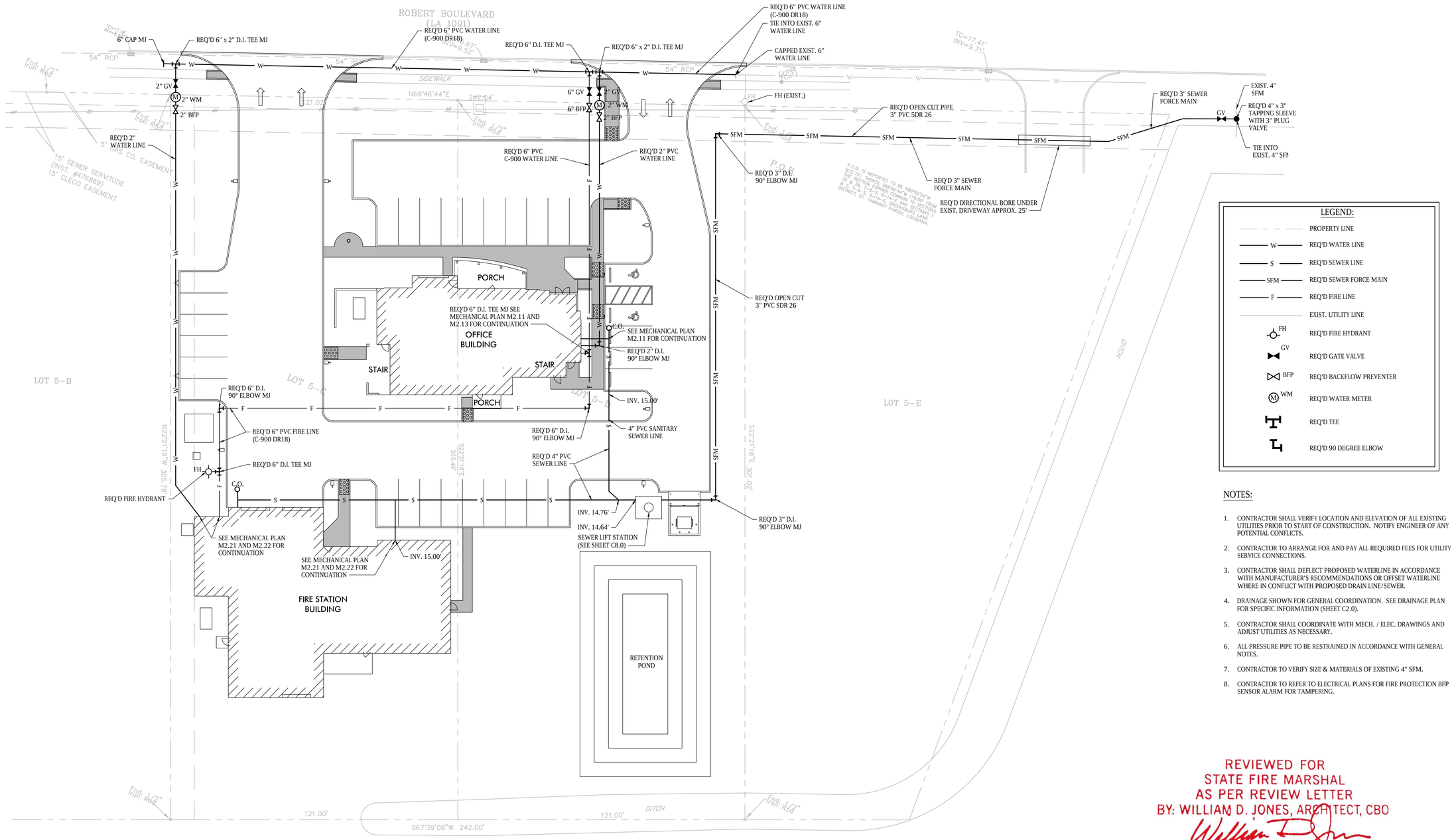
No.	Description	Date

PROJ. #. C16-0058

date
FEBRUARY 23, 2017

sheet
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LEGEND:

- PROPERTY LINE
- W — REQ'D WATER LINE
- S — REQ'D SEWER LINE
- SFM — REQ'D SEWER FORCE MAIN
- F — REQ'D FIRE LINE
- EXIST. UTILITY LINE
- FH — REQ'D FIRE HYDRANT
- GV — REQ'D GATE VALVE
- BFP — REQ'D BACKFLOW PREVENTER
- WM — REQ'D WATER METER
- REQ'D TEE
- REQ'D 90 DEGREE ELBOW

NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. NOTIFY ENGINEER OF ANY POTENTIAL CONFLICTS.
2. CONTRACTOR TO ARRANGE FOR AND PAY ALL REQUIRED FEES FOR UTILITY SERVICE CONNECTIONS.
3. CONTRACTOR SHALL DEFLECT PROPOSED WATERLINE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR OFFSET WATERLINE WHERE IN CONFLICT WITH PROPOSED DRAIN LINE/SEWER.
4. DRAINAGE SHOWN FOR GENERAL COORDINATION. SEE DRAINAGE PLAN FOR SPECIFIC INFORMATION (SHEET C2.0).
5. CONTRACTOR SHALL COORDINATE WITH MECH. / ELEC. DRAWINGS AND ADJUST UTILITIES AS NECESSARY.
6. ALL PRESSURE PIPE TO BE RESTRAINED IN ACCORDANCE WITH GENERAL NOTES.
7. CONTRACTOR TO VERIFY SIZE & MATERIALS OF EXISTING 4" SFM.
8. CONTRACTOR TO REFER TO ELECTRICAL PLANS FOR FIRE PROTECTION BFP SENSOR ALARM FOR TAMPERING.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 UTILITY PLAN
1" = 20'-0"

February 20, 2017

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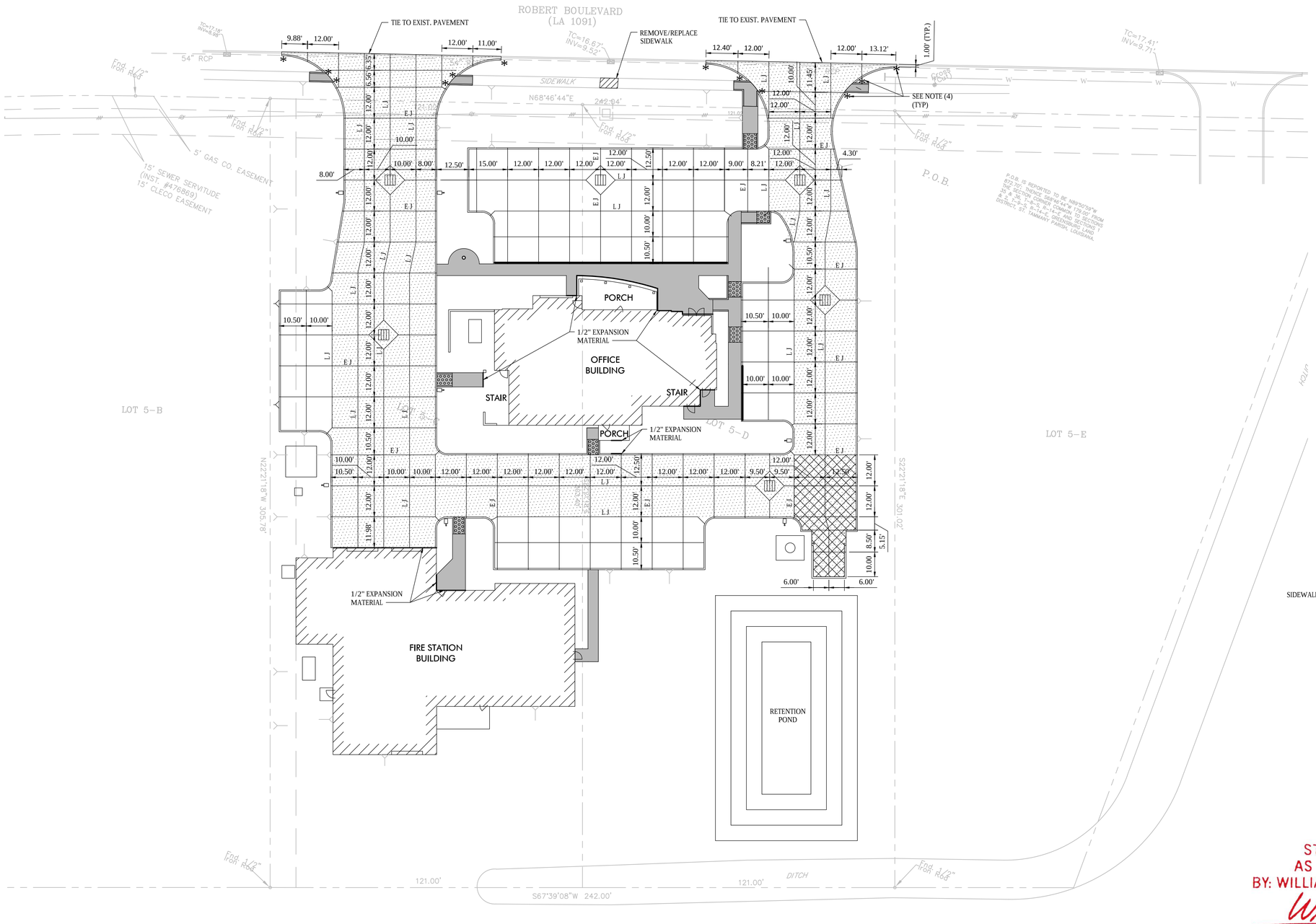
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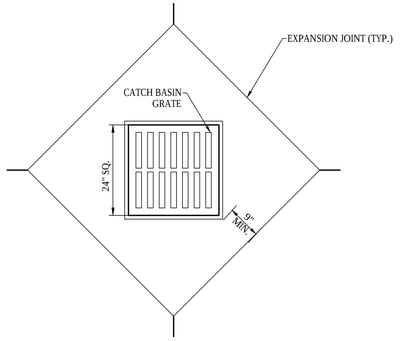
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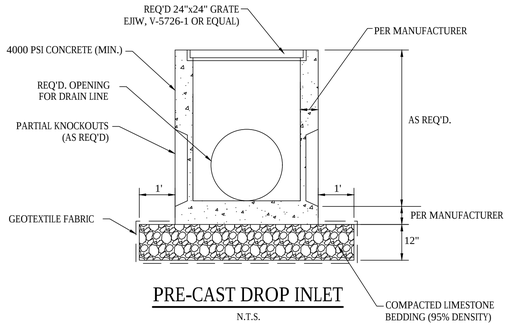

ROBERT BOULEVARD
(LA 1091)
TIE TO EXIST. PAVEMENT
REMOVE/REPLACE SIDEWALK
TIE TO EXIST. PAVEMENT
SEE NOTE (4) (TYP)
1.00' (TYP.)
SIDEWALK
N68°46'44"E 242.94'
54" RCP
Fnd 1/2" IRON ROD
5' GAS CO. EASEMENT
15' SEWER SERVITUDE (INST #476869)
15' CLECO EASEMENT
P.O.B.
P.O.B. IS REPORTED TO BE N89°50'39"W 1312.70' FROM THE FOUND MONUMENT AT THE INTERSECTION OF R. R. R/W & S-B-S, SEC. 24, T-6-S, R-11-E, U.S. SURVEY DISTRICT, ST. TAMMANY PARISH, LOUISIANA.
LOT 5-B
LOT 5-D
LOT 5-E
PORCH
1/2" EXPANSION MATERIAL
OFFICE BUILDING
STAIR
STAIR
PORCH
1/2" EXPANSION MATERIAL
1/2" EXPANSION MATERIAL
FIRE STATION BUILDING
RETENTION POND
N22°21'18"W 305.78'
S22°21'18"E 300.02'
121.00'
DITCH
121.00'
S67°39'08"W 242.00'
Fnd 1/2" IRON ROD
Fnd 1/2" IRON ROD
Fnd 1/2" IRON ROD
Fnd 1/2" IRON ROD
TC=17.18' INV=8.68'
TC=16.67' INV=9.52'
TC=17.41' INV=9.71'
CASE CURVE
9.88' 12.00' 12.00' 11.00' 12.40' 12.00' 12.00' 13.12'
6.56' 6.35' 10.00' 11.45' 4.30'
12.00' 15.00' 12.00' 12.00' 12.00' 12.50' 12.00' 12.00' 9.00' 8.21' 8.00'
10.50' 10.00' 10.00' 8.00' 10.50' 10.00' 10.00' 10.00



BLOCK-OUT DETAIL
N.T.S.

NOTE:

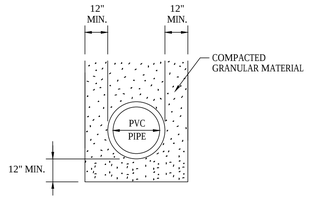
BLOCK-OUT DETAIL APPLIES TO ALL STRUCTURES LOCATED WITHIN PAVEMENT, INCLUDING CATCH BASINS, DRAINAGE MANHOLES, SEWER MANHOLES, ETC.



PRE-CAST DROP INLET
N.T.S.

NOTES:

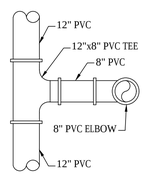
1. MATERIALS & FEATURES
   - CONCRETE: 4,000 PSI IN 28 DAYS.
   - REINFORCING STEEL: PER ASTM A-615, GRADE 60.
   - REINFORCING TO MEET AASHTO HS 20-44 LOADING.
   - PRECAST STRUCTURE TO MEET ASTM C-857-92
   - JOINT SEALANT: RAM-NEK GASKET MATERIAL.
2. PRE-CAST CATCH BASINS SHALL BE AS MANUFACTURED BY HANSON OR EQUAL.
3. CONTRACTOR SHALL USE 24" ROUND SOLID TOP MARKED "DRAIN" WITH FRAME IN ACCORDANCE WITH ASTM A-48, CLASS 30 FOR GRAY CASTINGS FOR REQUIRED DRAINAGE MANHOLE.



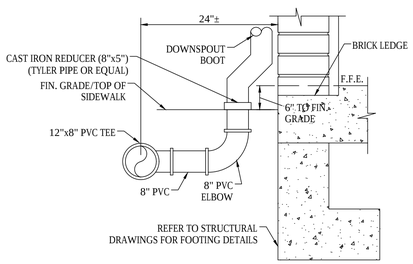
DRAIN LINE BEDDING DETAILS
N.T.S.

NOTE:

BEDDING AND BACKFILL MATERIAL SHALL BE INSTALLED IN 6-INCH LIFTS AND COMPACTED TO 95% MAX DRY DENSITY, IN ACCORDANCE WITH ASTM D698.

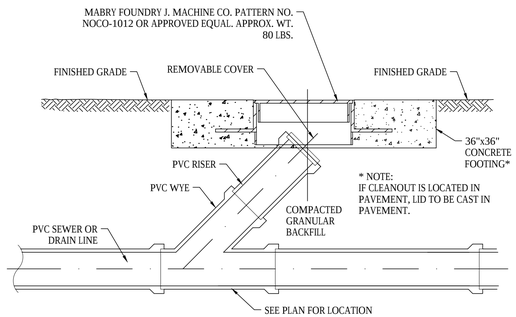


PLAN
N.T.S.

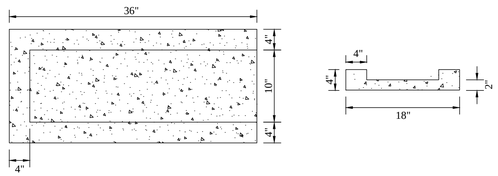


SECTION
N.T.S.

DOWNSPOUT TIE-IN DETAILS
N.T.S.



TYPICAL CLEANOUT DETAIL
N.T.S.



CONCRETE SPLASH BLOCK
N.T.S.

NOTES:

1. ALL CORNERS TO BE ROUNDED WITH 3/16" RADIUS.
2. CONCRETE TO BE MINIMUM 4000 PSI AFTER 28 DAYS.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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1 DRAINAGE DETAILS
NOT TO SCALE

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STATE OF LOUISIANA
JEFFREY D. HANSON
11/30/2016
PROFESSIONAL ENGINEER
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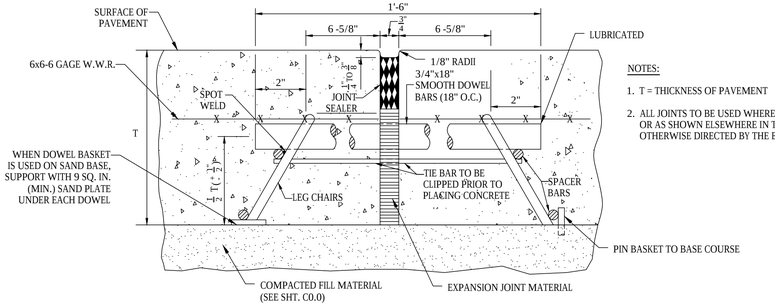
revisions

No.	Description	Date

PROJ. #: C16-0058

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C6.0

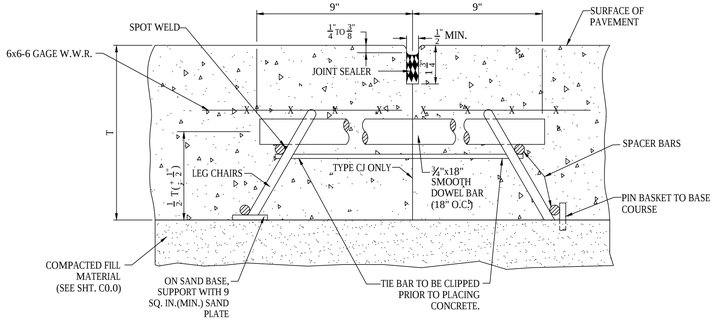


NOTES:

1. T = THICKNESS OF PAVEMENT
2. ALL JOINTS TO BE USED WHERE SHOWN ON THIS SHEET OR AS SHOWN ELSEWHERE IN THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.

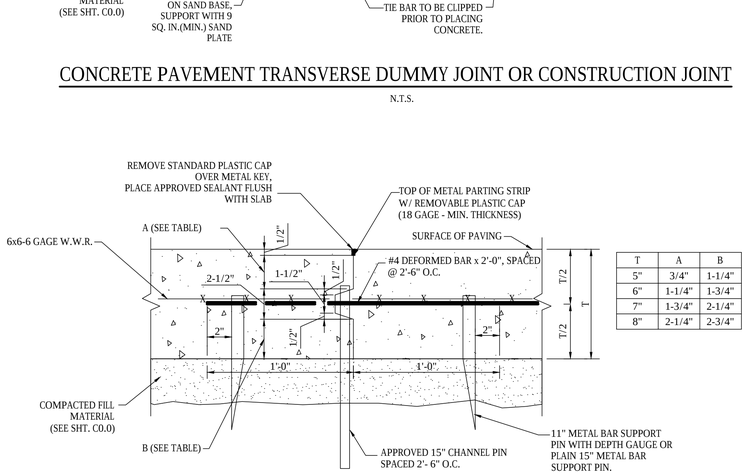
CONCRETE PAVEMENT TRANSVERSE EXPANSION JOINT

N.T.S.



CONCRETE PAVEMENT TRANSVERSE DUMMY JOINT OR CONSTRUCTION JOINT

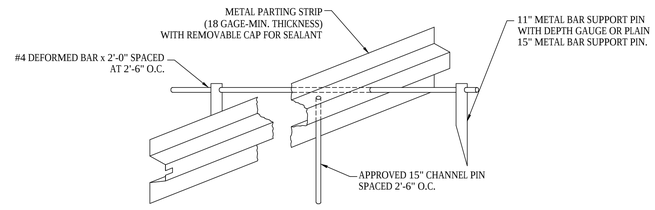
N.T.S.



T	A	B
5"	3/4"	1-1/4"
6"	1-1/4"	1-3/4"
7"	1-3/4"	2-1/4"
8"	2-1/4"	2-3/4"

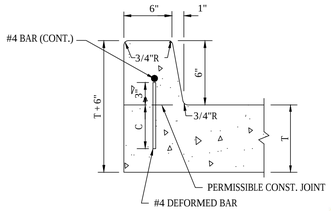
DEFORMED LONGITUDINAL JOINT

N.T.S.



OBLIQUE VIEW METAL PARTING STRIP FOR LONGITUDINAL JOINT

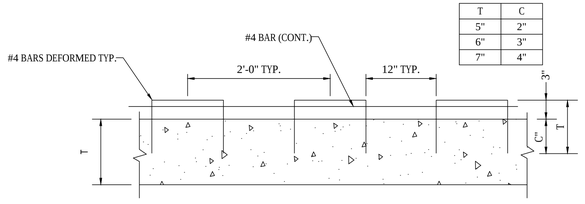
N.T.S.



BARRIER CURB DETAIL

N.T.S.

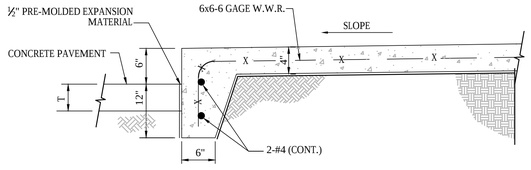
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BY: WILLIAM D. JONES, ARCHITECT, CBO



T	C
5"	2"
6"	3"
7"	4"

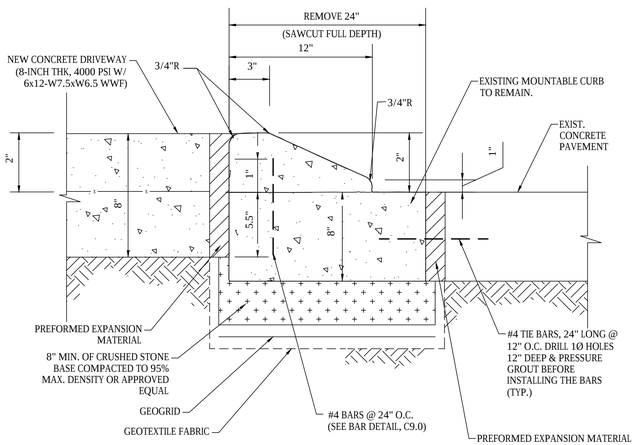
CONCRETE CURB STEEL BARS DETAIL

N.T.S.



SIDEWALK SECTION-TURNDOWN FOOTING

N.T.S.

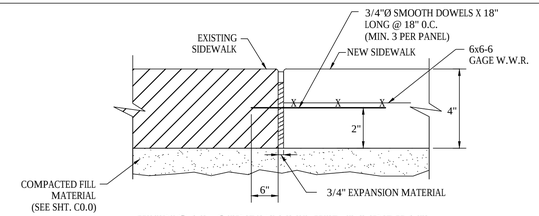


NOTES:

1. CONCRETE DRIVEWAY WITHIN EXISTING RIGHT-OF-WAY SHALL BE EIGHT (8) INCHES THICK WITH 6x12-W7.5xW6.5 WWF TO THE NEAREST JOINT PER SHEET C6.0.
2. CONTRACTOR SHALL COORDINATE WORK WITH CITY OF NEW ORLEANS - DEPT. OF PUBLIC WORKS.

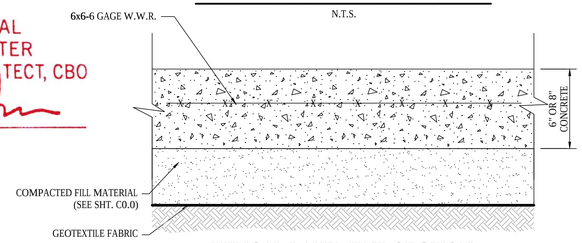
DRIVEWAY TIE-IN DETAIL TYPICAL

N.T.S.



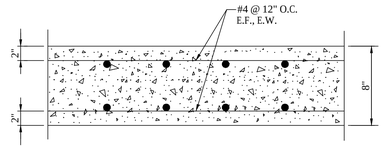
TYPICAL SIDEWALK TIE-IN DETAIL

N.T.S.



TYPICAL PAVEMENT SECTION

N.T.S.

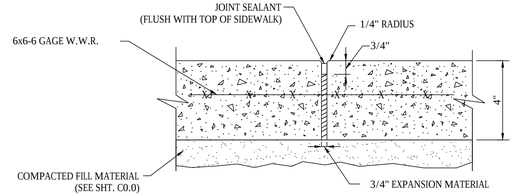


REINFORCED PAVEMENT SECTION

N.T.S.

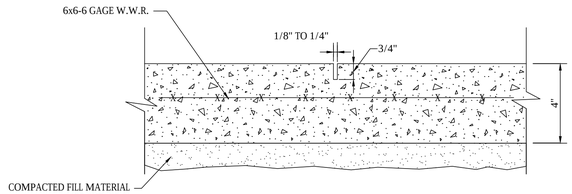
NOTE:

JOINTS FOR DUMPSTER PAD SHALL NOT EXCEED 20 FT. BY 20 FT.



SIDEWALK EXPANSION JOINT (20' O.C.)

N.T.S.



SIDEWALK SAWED CONTROL JOINT (5' O.C.)

N.T.S.

NOTE:

CONCRETE RESTORATION ON ALL STREETS WITH CONCRETE BASE OR CONCRETE PAVING UNDER FIVE (5) YEARS OF AGE, (AGE DETERMINED BY THE DEPARTMENT OF PUBLIC WORKS AND CITY OFFICIAL RECORDS), SHALL BE REQUIRED THAT ALL CUTS, REGARDLESS OF THE SIZE, BE RESTORED BY REPLACEMENT OF THE FULL CONCRETE PANEL IN WHICH THE CUT OR PART OF THE CUT WAS MADE. A PANEL IS DEFINED AS A HOMOGENEOUS SECTION BOUND BY FULL ORIGINAL CONSTRUCTION JOINTS. ALL MATERIAL AND WORKMANSHIP MUST MEET THE GENERAL SPECIFICATIONS FOR STREET PAVING. ROADWAYS OLDER THAN FIVE (5) YEARS OF AGE MAY HAVE AN OPTION TO DEVIATE FROM THIS, SHOULD A REPLACEMENT OF THE ROADWAY BE SCHEDULED TO BEGIN AND OR PRE APPROVED BY THE CURRENT DIRECTOR OR HIS DESIGNEE.

Kyle Associates, LLC
Planning, Engineering, and Landscape Architecture
638 Village Lane N. • Mandeville, LA 70471 • 985.727.9377

1 PAVING DETAILS
NOT TO SCALE

February 20, 2017

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JEFFREY D. WILSON
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CIVIL ENGINEERING

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landscape, civil, and structural engineer:
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MANDEVILLE, LA 70471
985.727.9377

revisions

No.	Description	Date

PROJ. #. C16-0058

date
FEBRUARY 23, 2017

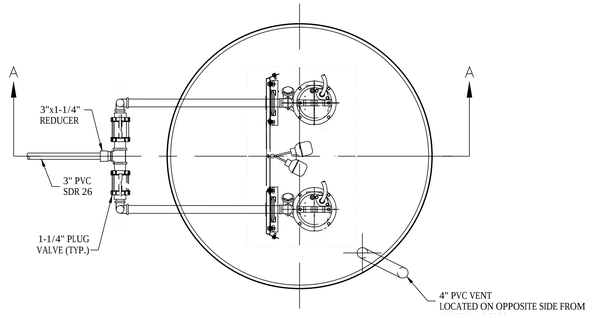
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PUMP STATION DATA TABLE

PUMP MODEL NUMBER: BARNES, OR EQUAL	TBD
NUMBER OF PUMPS	2
DESIGN CAPACITY PER PUMP GPM	25
TOTAL DYNAMIC HEAD, FT.	92
DESIGN SPEED, MAXIMUM RPM	3450
HORSEPOWER PER PUMP	2
SIZE SOLIDS PASSED, INCHES	N/A
DISCHARGE SIZE, INCHES	1.25"
IMPELLER DIA., INCHES	5.13
FORCE MAIN DIA., INCHES	3"
FORCE MAIN LENGTH, FEET	380
POWER	208V 3PH

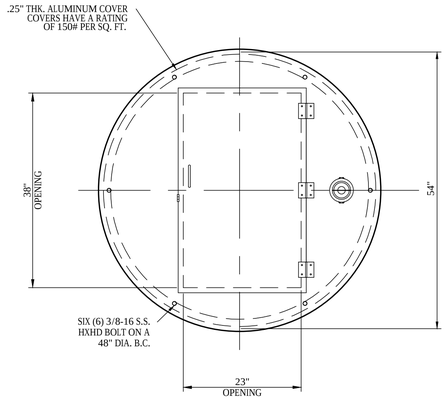
ELEVATIONS

A	B	C	D	E	F	G
10.27	11.77	13.64	14.14	14.64	14.64	17.50



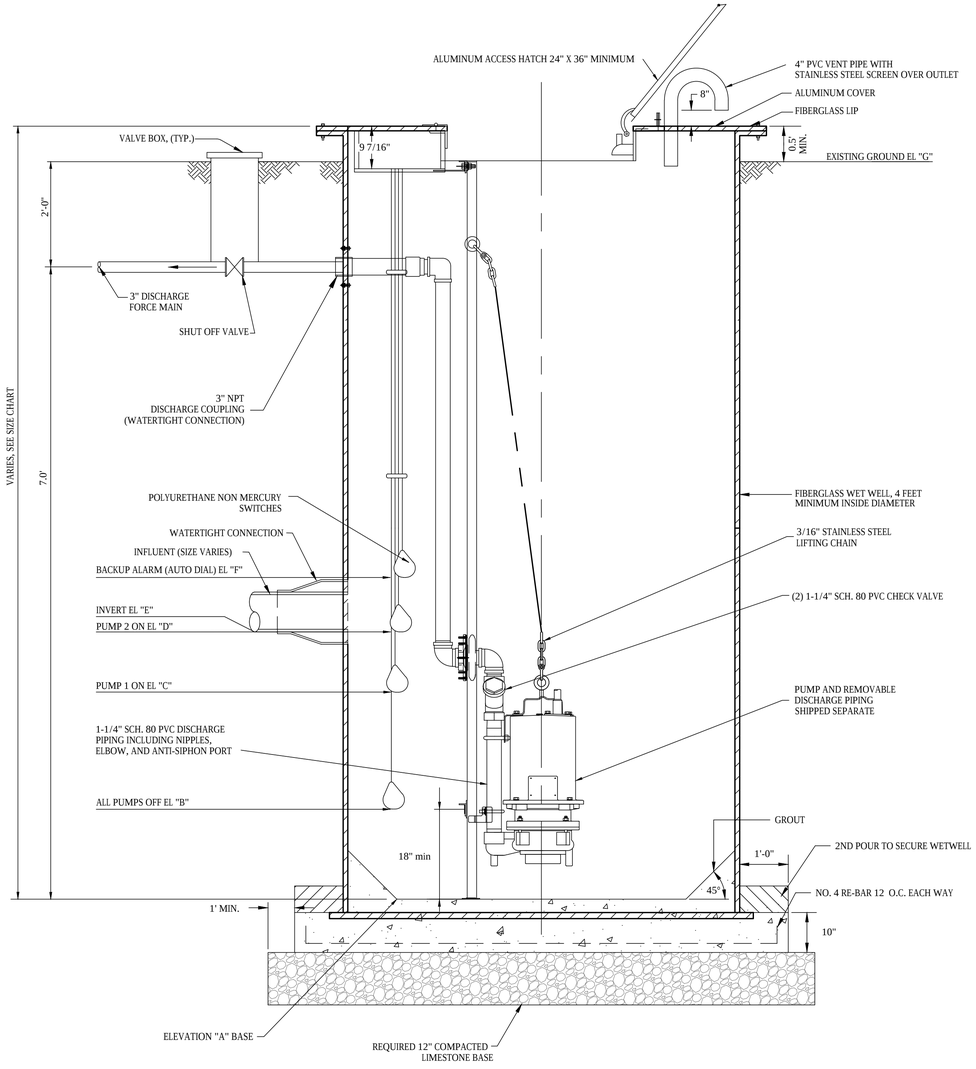
PLAN VIEW OF WET WELL

N.T.S.



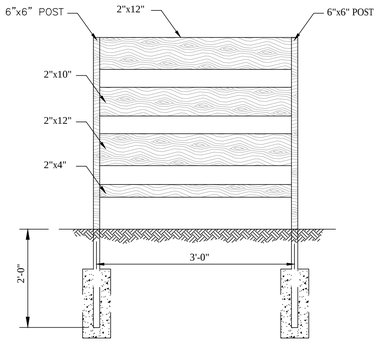
PLAN VIEW OF ALUMINUM COVER

N.T.S.



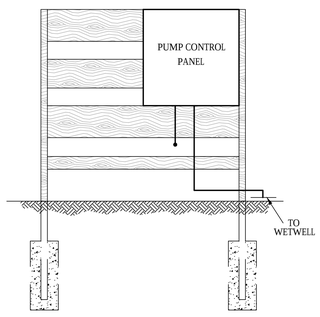
SECTION A-A ELEVATION

N.T.S.



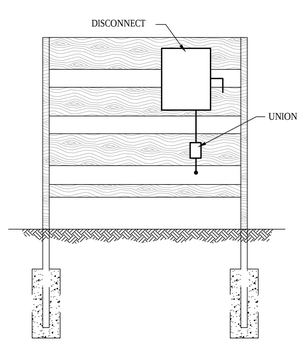
ELECTRICAL PANEL SUPPORT

N.T.S.



FRONT VIEW

N.T.S.



REAR VIEW

N.T.S.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 LIFT STATION (FIBERGLASS)
NOT TO SCALE

February 20, 2017

NOTES:

1. POWER SUPPLY TO PUMP STATION SHALL BE 208 3 PHASE.
2. FLOAT CONTROL ELEVATIONS SHALL BE MINIMUM NON MERCURY SWITCHES.
3. PUMPS AND CONTROL PANEL TO BE SUPPLIED BY ONE SUPPIER.
4. CONTRACTOR TO VERIFY INVERT OF GRAVITY SEWER PRIOR TO SUBMITTING LIFT STATION DRAWINGS.

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CERTIFICATE NO. 21945
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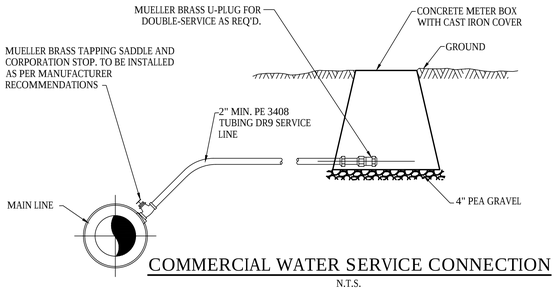
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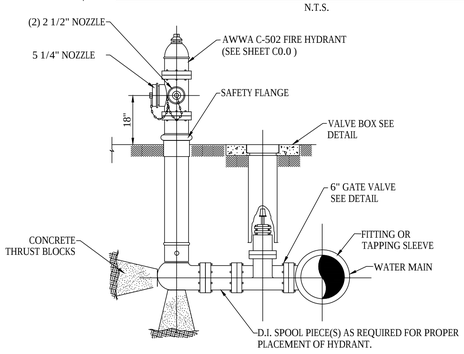
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COMMERCIAL WATER SERVICE CONNECTION

N.T.S.

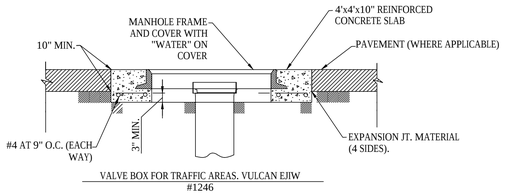


FIRE HYDRANT DETAIL

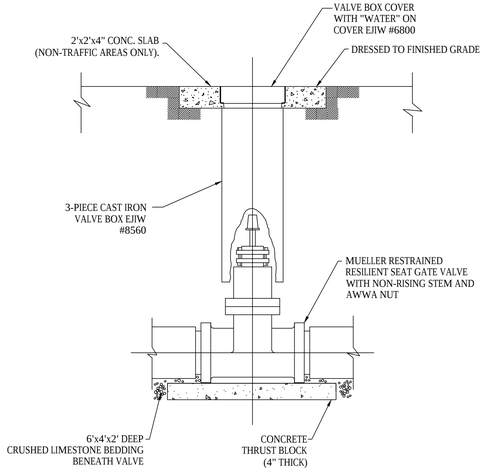
N.T.S.

NOTES:

1. ALL JOINTS SHALL BE FLANGED OR RESTRAINED.
2. FACE 5 1/4" NOZZLE TOWARDS STREET.

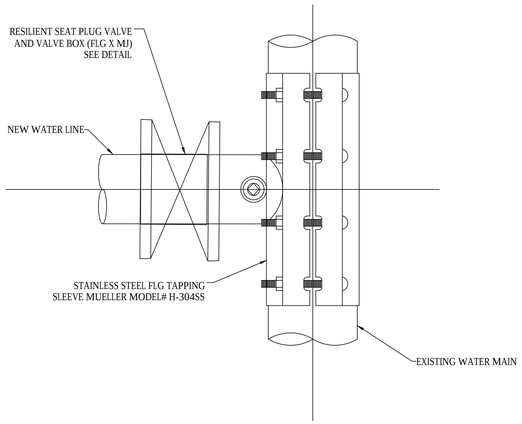


VALVE BOX FOR TRAFFIC AREAS. VULCAN EJIW #1246



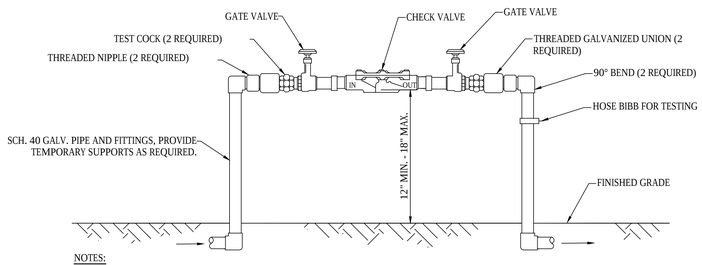
WATER VALVE AND VALVE BOX DETAIL

N.T.S.



DETAIL-SEWER CONNECTION TO EXISTING SEWER FORCEMAIN

N.T.S.

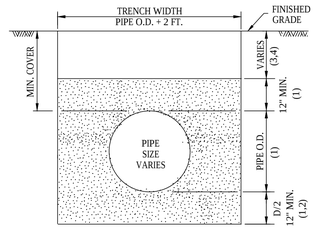


NOTES:

1. ALL BACKFLOW PREVENTERS SHALL BE INSPECTED BY UTILITY COMPANY AND NEED LICENSED / STATE CERTIFIED TESTER TO TEST AT INSTALLATION AND A CERTIFICATE SENT TO THE UTILITY COMPANY. TESTS WILL BE REQUIRED ANNUALLY THEREAFTER BY OWNER AND SENT TO THE UTILITY COMPANY.
2. CONTRACTOR SHALL INSTALL DOUBLE-CHECK VALVE BACKFLOW PREVENTER (AWWA C510) WITH THE APPROPRIATE SIZE AS SHOWN ON SHEET C4.0 OF THE PLANS (WATTS WATER TECHNOLOGIES, SERIES 709 OR EQUAL). BACKFLOW PREVENTER SHALL BE WRAPPED WITH INSULATION TO PROTECT AGAINST FREEZING, INSTALLED BETWEEN 12-18 INCHES ABOVE FINISHED GRADE AND EQUIPPED WITH A TAMPER BAR OR CHAIN/LOCK TO PREVENT UNAUTHORIZED OPERATION OF THE GATE VALVES.
3. TAMPER SWITCH FOR 6" BFP SHALL BE INCLUDED WITH BFP. SEE ELECTRICAL FOR DETAILS.

BACK-FLOW PREVENTER DETAIL

N.T.S.



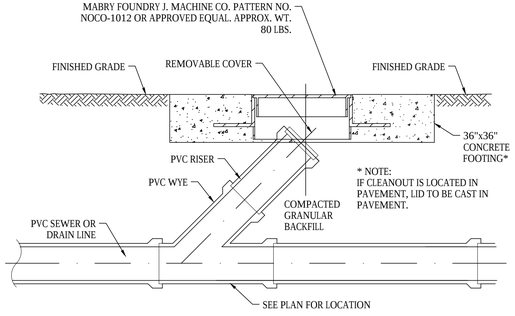
MIN. COVER	PIPE SIZE (IN.)
3 FT.	LESS THAN 12
4 FT.	12 AND GREATER

NOTES:

1. COMPACTED GRANULAR MATERIAL MIN. DENSITY 95% STANDARD PROCTOR (ASTM D698) 6" MAX. LAYERS.
2. PROVIDE BELL HOLES AT EACH JOINT.
3. SELECT EXCAVATED MATERIAL FREE OF STUMPS, DEBRIS AND VOIDS FOR NON-PAVED AREA.
4. COMPACTED GRANULAR MATERIAL WITHIN THE STREETS RIGHT-OF-WAY MIN. DENSITY 95% STANDARD PROCTOR (ASTM D698) 6" MAX. LAYERS.
5. WHERE GROUND WATER OR UNSTABLE TRENCH BOTTOM EXISTS, TRENCH BOTTOM SHALL BE STABILIZED (ASTM D2321) TO PROVIDE A WORKING PLATFORM.
6. TRENCH DETAIL SHOWN SHALL BE MINIMUM REQUIREMENTS TO SAFEGUARD THE INTEGRITY OF THE UTILITY LINE INSTALLATION AT REQUIRED DEPTHS. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND BRACING TO PROVIDE SAFE WORKING CONDITION FOR HIS WORKERS.

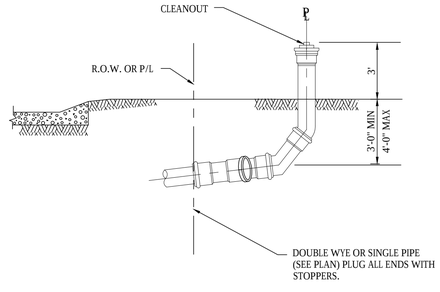
STANDARD UTILITY TRENCH DETAIL

N.T.S.



TYPICAL CLEANOUT DETAIL

N.T.S.



SEWER SERVICE CONNECTION

N.T.S.

* ENGINEER MAY GIVE SPECIAL CONSIDERATION TO AVOID SIPHON

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
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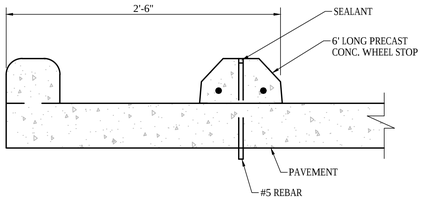
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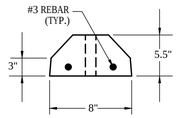
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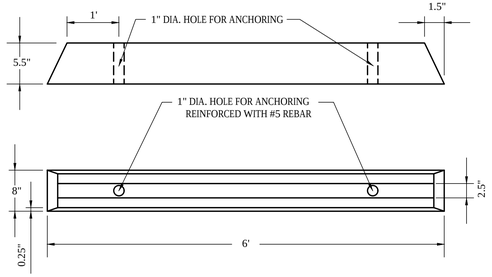
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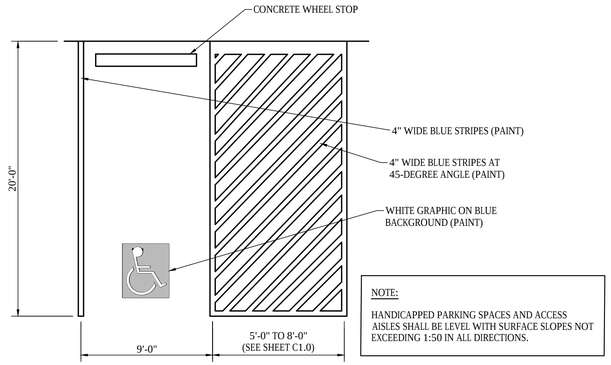


PRECAST CONCRETE WHEEL STOP

N.T.S.

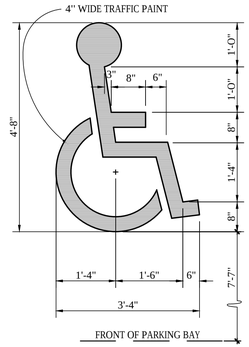
NOTES:

1. WHEEL STOPS ARE TO BE DELIVERED AND INSTALLED FREE OF VISIBLE CRACKS AND BLEMISHES.
2. CONCRETE WHEEL STOPS SHALL BE 4,200 P.S.I CONCRETE AT 28 DAYS (MIN.) FIBER REINFORCED, INSTALLED WITH 2 EA. 5/8"x16" PINS, 1/2" BELOW TOP OF WHEEL STOP.



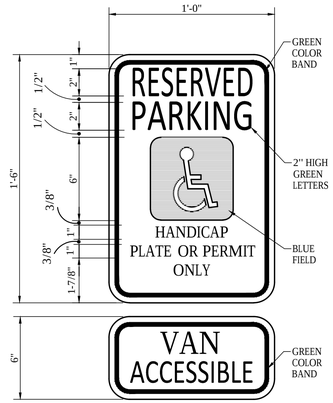
NOTE:

HANDICAPPED PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.



TYPICAL HANDICAP STRIPING DETAIL

N.T.S.



NOTES:

1. THE BOTTOM OF THE SIGN SHOULD BE NO LESS THAN 72 INCHES ABOVE FINISH GRADE.
2. SIGNS SHALL BE PROPERLY CENTERED WITHIN THE PARKING SPACE AND POLE MOUNTED.
3. THE SIGN FACE SHOULD BE LOCATED NO FARTHER THAN 6 FEET FROM THE FRONT OF EACH PARKING SPACE.
4. ALL LETTERING SERIES 'C', GREEN COLOR.
5. INTERNATIONAL SYMBOL OF ACCESSIBILITY SHOWN WHITE ON 6"x6" BLUE FIELD WITH 1/2 RADIUS CORNERS.
6. THE VAN ACCESSIBLE SIGN SHALL BE CENTERED UNDER THE ACCESSIBLE PARKING SIGN AS SHOWN (IF APPLICABLE).
7. THE SIGN SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
8. A "RESERVED PARKING" SIGN SHALL BE REQUIRED BEHIND THE SIDEWALK AT EACH HANDICAP ACCESSIBLE PARKING SPOT.
9. ALL HANDICAP SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH APPLICABLE ADA STANDARDS.

TYPICAL HANDICAP SIGNAGE DETAIL

N.T.S.

TYPICAL HANDICAP RAMP DETAILS

N.T.S.

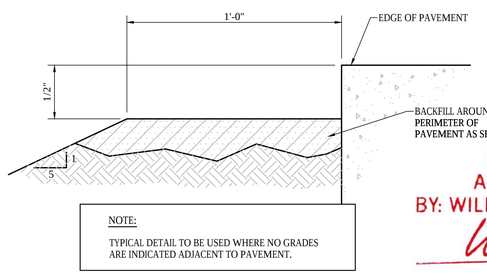
DETECTABLE WARNING SURFACES:

1. PROVIDE IN PEDESTRIAN CIRCULATION AREAS WHERE INDICATED ON DRAWINGS.
2. COMPLY WITH STATE FIRE MARSHAL'S CURRENT GUIDELINES, AND MEET SPECIFIC REQUIREMENTS OF ADAAG FOR DETECTABLE WARNING.
3. SPECIALLY DESIGNED FORMS SHALL BE USED TO CAST INTO AREAS OF COLORED CONCRETE THE FOLLOWING:

A. THE ONLY ACCEPTABLE FORM OF DETECTABLE WARNING IS THE "RAISED TRUNCATED DOME". THE DOMES SHALL BE 0.9" NOM. DIAMETER, 0.2" NOM. HEIGHT, AND CENTERED 2.35" APART.

B. THE AREA HAVING A DETECTABLE WARNING SHALL VISUALLY CONTRAST IN COLOR WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE THE CONTRASTING COLOR SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.

4. SCORED LINES, SCORED CROSS-HATCHES, AND OTHER SURFACE TREATMENTS ARE NOT ACCEPTABLE DETECTABLE WARNINGS.
5. PRE-MANUFACTURED PRODUCTS TO PROVIDE THE DETECTABLE WARNING MAY ONLY BE USED UPON PRIOR APPROVAL BY THE ENGINEER/ARCHITECT. PRODUCT AND INSTALLATION METHODS MUST BE ADAAG REVIEWED AND APPROVED.



NOTE:

TYPICAL DETAIL TO BE USED WHERE NO GRADES ARE INDICATED ADJACENT TO PAVEMENT.

TYPICAL DETAIL - BACKFILL AROUND PAVEMENT

N.T.S.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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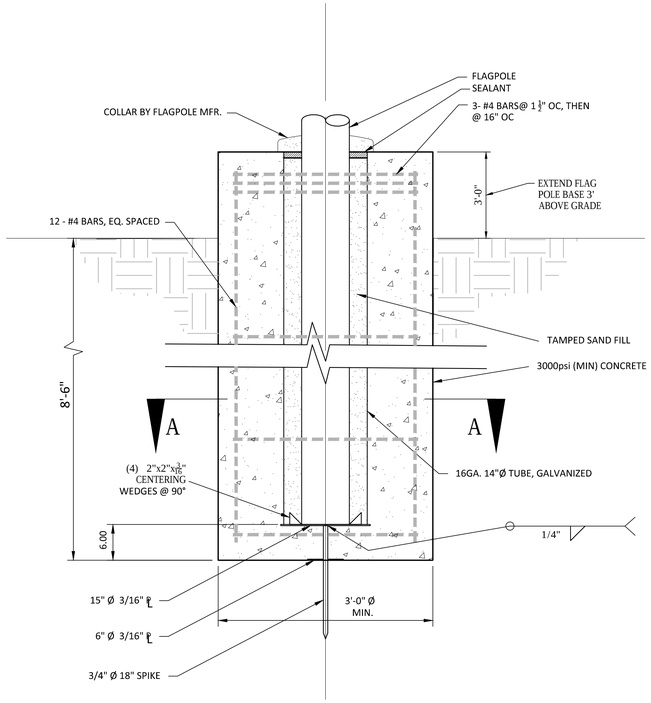
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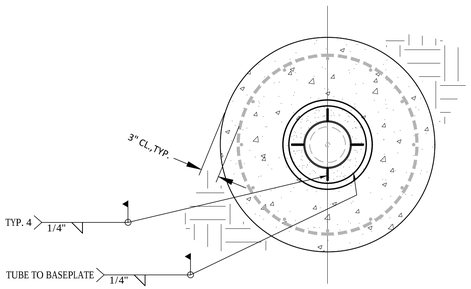
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FLAGPOLE FOUNDATION

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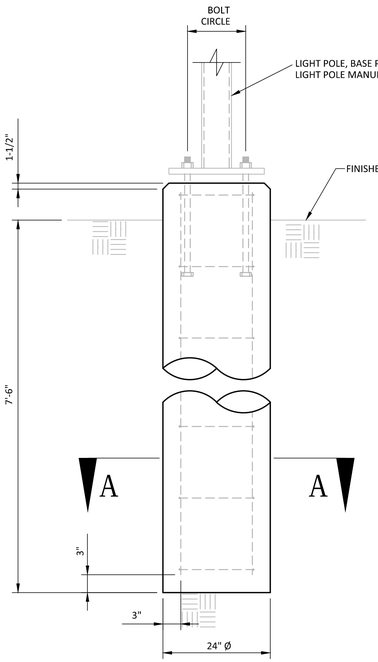
NOTE:
POUR CONCRETE AGAINST UNDISTURBED SOIL



SECTION A-A

N.T.S.

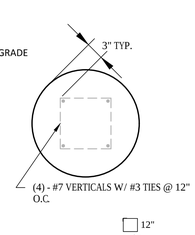
NOTE:
ADVISE STRUCTURAL ENGINEER IF MANUFACTURER'S RECOMMENDED INSTALLATION DIFFERS FROM THIS DRAWING.



30' TALL LIGHT POLE FOUNDATION

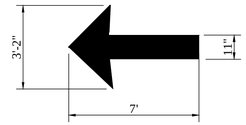
N.T.S.

NOTE:
POUR CONCRETE AGAINST UNDISTURBED SOIL



SECTION A-A

N.T.S.

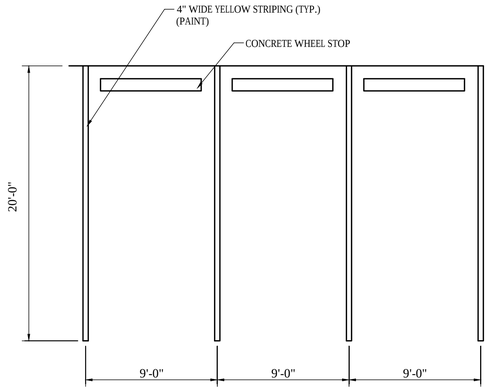


THRU LANE ARROW (YELLOW)

N.T.S.

NOTE:

ALL SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (LATEST EDITION), AS WELL AS THE MANUAL ON UNIFORM TRAFFICE CONTROL DEVICES (LATEST EDITION).



TYPICAL PARKING STRIPING DETAIL

N.T.S.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 PARKING DETAILS
NOT TO SCALE

February 20, 2017

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JEFFREY W. MASON
LICENSED
PROFESSIONAL ENGINEER
STATE OF LOUISIANA
CIVIL
No. 31945

Kyle Associates, LLC
Planning, Engineering, and Landscape Architecture
638 Village Lane N. • Mandeville, LA 70471 • 985.727.9377

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These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

St. Tammany Fire Protection District No.1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
CRUMB ENGINEERING LLC
4609 FAIRFIELD STREET
METAIRIE, LA 70006
504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
638 VILLAGE LANE NORTH
MANDEVILLE, LA 70471
985.727.9377

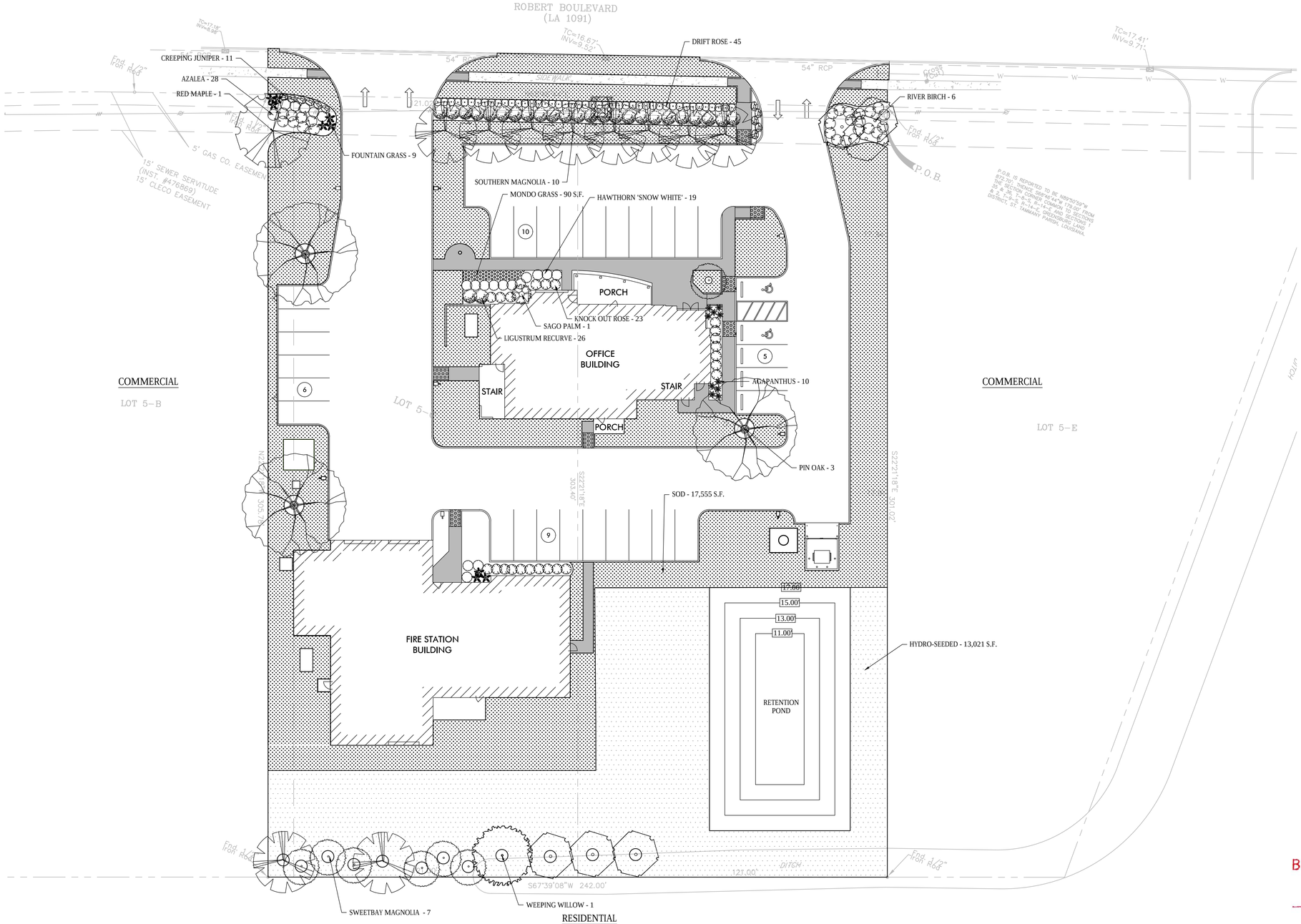
revisions

No.	Description	Date

PROJ. #: C16-0058

date
FEBRUARY 23, 2017

sheet
C10.1



0 10 20 40

PEDESTRIAN ACCESS PLANTING
(200 S.F. OF OPEN SPACE PER 50 L.F. OF BUILDING FACE)

OFFICE BUILDING:

NORTHERN 85.14 L.F.
REQUIRED - 340 S.F.
PROPOSED - 521 S.F.

EASTERN 44 L.F.
REQUIRED - 176 S.F.
PROPOSED - 203.75 S.F.

FIRE BUILDING:

NORTHERN 110 L.F.
REQUIRED - 440 S.F.
PROPOSED - 440 S.F.

ROBERT BLVD LANDSCAPE BUFFER
(242.04 L.F. OF FRONTAGE AND 10' WIDE)

CLASS "A" TREES REQUIRED - 12
CLASS "A" TREE PROPOSED - 12

SHRUBS REQUIRED - 120
SHRUBS PROPOSED - 120

SOUTHERN REAR LANDSCAPE BUFFER
(242.00 L.F. OF FRONTAGE AND 10' WIDE)

CLASS "A" TREES REQUIRED - 12
CLASS "A" TREE PROPOSED - 12

PARKING LOT PLANTING REQUIREMENTS
(1 TREE PER 12 SPACES)

30 PARKING SPACES PROVIDED

TREES REQUIRED - 3
TREE PROPOSED - 3

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 LANDSCAPE PLAN
1" = 20'-0"

February 20, 2017

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STATE OF LOUISIANA
Lic. No. K-1
LICENSED LANDSCAPE ARCHITECT

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date
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sheet
L1.0

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PLANT MATERIAL NOTES

1. UPON APPROVAL OF THE PLANTING BED SHAPES AND TREE LOCATIONS, ALL EXISTING VEGETATION IN THESE AREAS IS TO BE CHEMICALLY ERADICATED USING A NON-SELECTIVE HERBICIDE (ROUND-UP OR EQUAL) APPLIED PER MANUFACTURER'S INSTRUCTIONS. BEDDING MATERIAL/PLANTING MEDIUM IS NOT TO BE PLACED IN THESE AREAS UNTIL THE CHEMICAL APPLICATION HAS SATISFACTORILY ELIMINATED THIS VEGETATION.
2. WHERE EXCAVATION REVEALS UNSUITABLE SOILS FOR PROPER TREE GROWTH, THE PLANTING HOLE IS TO BE DUG TWO TIMES THE SIZE OF THE ROOT BALL SPECIFIED, AND ALL BACKFILL IS TO BE TOPSOIL OR GARDEN MIX. UNSUITABLE MATERIAL IS TO BE REMOVED FROM THE SITE.
3. UPON INSTALLATION OF PLANT MATERIAL, ALL TREE WELLS AND BEDDING AREAS ARE TO BE MULCHED WITH PINE STRAW MULCH, AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER. MULCH SHALL BE A MINIMUM OF 4" THICK.
4. ALL PLANT MATERIAL SPECIFIED IS TO BE FREE OF ALL PESTS, DISEASE, AND OTHER FOREIGN MATTER UPON DELIVERY TO THE SITE. MATERIAL SHOULD COME FROM A REPUTABLE AND LICENSED NURSERY WITHIN THE REGION WHERE THE PROJECT EXISTS. ANY PLANT THAT DOES NOT MEET THESE REQUIREMENTS OR IS NOT IN EXCELLENT HEALTH WILL BE REJECTED.
5. ALL PLANT MATERIAL WILL MEET OR EXCEED THE MINIMUM SIZES INDICATED IN THE PLANT MATERIAL SCHEDULE. ADDITIONALLY, ALL CONTAINER PLANT MATERIAL IS TO HAVE BEEN IN THE CONTAINER SIZE SPECIFIED FOR A MINIMUM OF ONE FULL GROWING SEASON. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE MATERIAL IN THE EVENT THESE MINIMUM STANDARDS ARE NOT MET.
6. PLANT MATERIAL DELIVERED TO THE PROJECT SITE IS NOT TO BE STOCKPILED FOR MORE THAN THREE DAYS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE HEALTH AND WELL BEING OF ALL LANDSCAPE MATERIAL STAGED ON SITE.
7. ALL PLANT MATERIAL IS TO BE FERTILIZED AT THE TIME OF PLANTING WITH A BALANCED, TIME RELEASED FERTILIZER SUITABLE FOR THE SPECIFIC PLANT MATERIAL INSTALLED. FERTILIZATION FOR MATERIAL IN PLANTING BEDS MAY BE INCORPORATED INTO THE SOIL MIX OR APPLIED AT EACH PLANT LOCATION.
8. THE LANDSCAPE CONTRACTOR IS TO APPLY A WEED INHIBITOR ON THE SURFACE OF ALL BED AREAS PRIOR TO MULCHING, OR AS PER MANUFACTURER'S INSTRUCTIONS.
9. THE SCOPE OF THIS PROJECT INCLUDES THE PRUNING AND MAINTENANCE OF ALL MATERIAL (IMMEDIATELY AFTER PLANTING). PLANT MATERIAL IS TO HAVE THE HIGHEST QUALITY APPEARANCE AT THE TIME OF FINAL PRODUCT ACCEPTANCE.
10. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO WATER ALL MATERIAL THOROUGHLY UPON INSTALLATION, EVERY DAY FOR THE FIRST THREE DAYS FROM PLANTING, THEN EVERY OTHER DAY FOR THE NEXT TEN DAYS. THIS REQUIREMENT WILL BE WAIVED ONCE AN IRRIGATION SYSTEM IS INSTALLED AND OPERATIONAL.
11. CONTRACTOR IS TO WARRANT THE SURVIVABILITY OF ALL PLANT MATERIAL FOR ONE YEAR AFTER ACCEPTANCE, WITH EXCEPTIONS BEING MADE FOR FREEZE, WIND DAMAGE, AND VEHICULAR DAMAGE. DROUGHT IS EXCLUDED.
12. SOIL FOR LAWN AREAS IS TO BE A SANDY LOAM TYPE SOIL, FREE OF STICKS, ROOTS, EXISTING VEGETATION, AND ROCKS, AND IS TO HAVE A MINIMUM DEPTH OF 6" TO 8". BEDDING AREA SOILS ARE TO BE A GARDEN MIX OF SANDY LOAM, FINELY CHOPPED BARK MULCH, AND A NUTRIENT BASE EITHER FROM FERTILIZERS OR NATURAL SOIL AMENDMENTS. ALL BEDDING AREAS ARE TO HAVE A MINIMUM PLANTING DEPTH OF 12". EXISTING MATERIAL MAY BE AMENDED PROVIDED THE QUALITY SPECIFIED ABOVE IS MET.
13. ALL LAWN AREAS THAT ARE TO BE SODDED SHALL BE FREE OF NOXIOUS WEEDS AND PESTS, AND SOURCED FROM A LICENSED AND REPUTABLE SOD GROWER LOCATED WITHIN THE REGION. NO "PASTURE GRASS" SOD IS ALLOWED.
14. ALL GRADING OF LAWN AND BED AREAS ARE TO BE AWAY FROM STRUCTURES AND WALKS. FINAL LAWN GRADES ARE TO BE ESTABLISHED AS PART OF THE OVERALL DRAINAGE SYSTEM. GUTTER DOWNSPOUTS ARE NOT TO FLOW DIRECTLY INTO BEDDING AREAS. RETRACTABLE DOWNSPOUT EXTENSIONS, SPLASH BLOCKS, OR CONNECTION TO SUBSURFACE DRAINAGE SYSTEMS IS REQUIRED.
15. CONTRACTOR SHALL INSTALL A GEOTEXTILE FABRIC BELOW PLANTING BEDS IN THE IMMEDIATE VICINITY OF ANY STRUCTURE TO PREVENT WATER INFILTRATION INTO SUBSOIL AROUND STRUCTURAL FOUNDATIONS.
16. ALL NON-PAVED AREAS SHALL BE SODDED. SOD IS TO BE INSTALLED USING A 6" CREST AT THE CENTER OF ALL ISLANDS & SLOPING TO EDGE OF CURB ON BOTH SIDES TO INSURE PROPER DRAINAGE OF ISLAND.ALL HYDRO-SEEDING APPLICATIONS ARE TO BE APPLIED IN A SWEEPING MOTION TO FORM A UNIFORM APPLICATION AND FORM A MAT AT THE SPECIFIC RATES.
17. UNUSED LOADS: IF MIXTURE REMAINS IN TANK FOR MORE THAN 8 HOURS IT SHALL BE REMOVED FORM THE JOB SITE AT CONTRACTOR'S EXPANSE.
18. HYDRO-SEEDING OVERSPRAY: INSTALLING CONTRACTOR IS RESPONSIBLE FOR WASHING OR OTHERWISE CLEANING EXCESS MATERIAL OFF ALL NON-INTENDED TO RECEIVE TREATMENT.
19. RE-SEEDING: AFTER "FINAL ACCEPTANCE", RE-SEEDING WILL BE DONE AT THE REQUEST OF THE OWNER AND SHALL BE CONSIDERED EXTRA.
20. ALL DITCHES AND CANAL SIDE SLOPES SHALL BE HYDRO-SEEDED, SODDED OR APPROVED EQUAL.

GENERAL NOTES

1. THE WORK PERFORMED UNDER THE DIRECTION OF THESE DOCUMENTS IS TO BE OF THE HIGHEST WORKMANSHIP AND QUALITY FOR WORK OF THIS TYPE. BEST INDUSTRY STANDARDS ARE TO BE APPLIED FOR ALL WORK DEFINED IN THESE DOCUMENTS.
2. THIS SET OF PLANS HAS BEEN DEVELOPED USING A SURVEY OR BASE INFORMATION PROVIDED BY THE OWNER. CONTRACTOR IS TO IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES THAT EXIST BETWEEN THE SURVEY/BASE INFORMATION AND THE ACTUAL FIELD CONDITIONS.
3. THE PLAN REFLECTS A PROGRAM SET FORTH BY THE PROJECT OWNER. VARIATION IN PLANT SPECIES, SIZE, OR ARRANGEMENTS WILL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT. ALL CORRESPONDENCE, ADDITIONS, SUBTRACTIONS, OR OTHER INSTANCES WHERE VARIATIONS IN THE PLAN MAY BE SUITABLE SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
4. ALL WORK PERFORMED UNDER THESE DOCUMENTS IS TO BE DONE IN ACCORDANCE WITH THE LAWS AND REGULATIONS OF THE JURISDICTION IN WHICH THE PROJECT IS LOCATED. LOCAL, STATE, AND FEDERAL LAWS APPLY.
5. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND THE COST OF ALL PERMITS AND APPROVALS REQUIRED FOR THIS WORK. ONLY LICENSED AND INSURED LANDSCAPE CONTRACTORS WILL BE PERMITTED TO PERFORM THE WORK INDICATED ON THESE PLANS.
6. THE CONTRACTOR IS TO CONTACT THE LOCAL UTILITY LOCATION SERVICE PRIOR TO THE COMMENCEMENT OF WORK AND HAVE ALL SUBSURFACE UTILITIES MARKED ON THE GROUND SURFACE, INCLUDING BUT NOT LIMITED TO TELEPHONE, NATURAL GAS, CABLE, WATER, SEWER, DRAINAGE, AND FIBER OPTIC. DEPTH OF THE UTILITIES SHALL BE A CONSIDERATION IN THIS EVALUATION. ADJUSTMENTS REQUIRED TO THE LANDSCAPE PLAN OR IRRIGATION DESIGN AS A RESULT OF UTILITY CONFLICTS ARE TO BE MADE PRIOR TO THE COMMENCEMENT OF WORK.
7. ALL EXISTING UTILITIES ARE TO BE PROTECTED AND MAINTAINED. REPAIRS ON UTILITIES DAMAGED BY THE CONTRACTOR WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. ALL EXISTING TREES AND OTHER LANDSCAPING THAT IS TO REMAIN, IS TO BE PROTECTED BY INSTALLING 4'ORANGE CONSTRUCTION SAFETY FENCING AROUND THE TREE AT THE DRIP LINE AND AROUND OTHER PLANTINGS AT THE EDGE OF THE PLANTED AREA.
9. EXISTING TREES AND SHRUBS THAT ARE INDICATED "TO BE REMOVED" ON THE PLANS SHALL BE CUT AND DISPOSED OF OFF SITE. THIS INCLUDES THE REMOVAL OF ALL ROOT SYSTEMS AND STUMPS (WHICH MAY BE GROUND) SO THAT THIS MATERIAL DOES NOT INTERFERE WITH THE NEW LANDSCAPE PROGRAM.
10. ALL CONSTRUCTION DEBRIS, INCLUDING BUT NOT LIMITED TO ROCKS, CONCRETE, BATTER BOARDS, PIPE, AND FOUNDATION BASE MATERIAL IS TO BE REMOVED FROM AREAS TO BE PLANTED PRIOR TO THE INSTALLATION OF BEDDING SOIL OR BASE PREPARATION FOR SOD.
11. UPON COMPLETION OF ALL BED PREPARATION, PLANTS ARE TO BE FULLY ARRANGED IN THE BED PRIOR TO INSTALLATION. THE LANDSCAPE ARCHITECT AND/OR THE OWNER ARE TO APPROVE THE ARRANGEMENT PRIOR TO PLANT INSTALLATION. THE LANDSCAPE CONTRACTOR IS TO ROTATE ALL TREE AND LARGE SHRUB MATERIAL AS TO MAXIMIZE THE BENEFIT OF THE BRANCHING STRUCTURE TOWARDS THE OUTWARD APPEARANCE. FAILURE TO OBTAIN SUCH APPROVAL MAY RESULT IN THE RELOCATION OF MATERIAL.
12. ALL TREES ARE TO BE STAKED USING WOOD STAKES, THREE PER TREE. GUY WIRES ARE TO BE GALVANIZED WITH PLASTIC SHEATHING AT ALL TREE CONTACT POINTS. GUY WIRES ARE TO BE SET WITH 2" SLACK TO ALLOW FOR TREE MOVEMENT. ALL WIRES ARE TO BE FLAGGED WITH HIGH VISIBILITY TAPE.

IRRIGATION NOTES

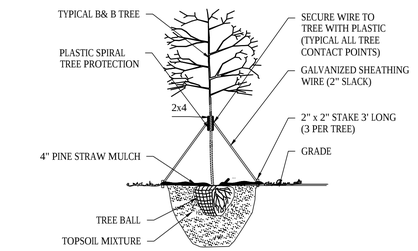
1. ALL LANDSCAPE INSTALLATION WORK IS TO BE COORDINATED WITH THE IRRIGATION SYSTEM. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE ADJUSTMENT OF SPRAY HEADS AND NOZZLES TO FIT THE PLANT MATERIAL FOR THE PROJECT.
2. THE WATER SOURCE FOR THIS PROJECT IS TO BE THE MUNICIPAL WATER SYSTEM SERVING THE SITE. ALL CONNECTIONS TO THE SYSTEM ARE TO BE IN CONFORMANCE WITH THE RULES AND REGULATIONS GOVERNING WATER CONNECTIONS FOR IRRIGATION SYSTEMS IN THE JURISDICTION IN WHICH THIS PROJECT EXISTS. A BACKFLOW PREVENTER IS TO BE INSTALLED AT THE POINT OF WATER SOURCE CONNECTION, PER LOCAL CODES.
3. IRRIGATION COVERAGE FOR LAWN AREAS IS TO BE 90%, AND COVERAGE OF ALL BED AREAS IS TO BE 95% (MINIMUM). THE IRRIGATION/LANDSCAPE CONTRACTOR IS TO ENSURE THAT DIRECT OR OVERSPRAY FROM IRRIGATION HEADS IS TO PERMITTED TO WET WALKWAYS OR BE A DETRIMENT TO ADJACENT STREETS OR DRIVES.
4. ONLY TORO, RAIN BIRD, OR HUNTER IRRIGATION PRODUCTS (OR APPROVED EQUAL) WILL BE PERMITTED. THE LANDSCAPE CONTRACTOR IS TO PROVIDE SUBMITTALS ON ALL PRODUCTS TO BE USED IN THE IRRIGATION SYSTEM.
5. THE IRRIGATION SYSTEM MAY MAKE USE OF SPRAY HEADS, DRIP EMITTERS, SOAKER HOSES, OR ANY COMBINATION THEREOF. THE SYSTEM WILL BE A FULLY AUTOMATED SYSTEM WITH INITIAL SET-UP MADE BY THE LANDSCAPE/IRRIGATION CONTRACTOR.
6. IRRIGATION SYSTEM ZONES ARE TO BE HYDRAULICALLY DESIGNED FOR A WATER SOURCE WITH AN OPERATING PRESSURE OF 55 PSI AND A FLOW RATE OF 40 GALLONS PER MINUTE. SYSTEM SHALL BE CONFIGURED TO HAVE NO MORE THAN TWO ZONES OPERATING AT ONE TIME. FOR LARGE SYSTEMS WHERE THESE PARAMETERS ARE NOT ADEQUATE, THE CONTRACTOR WILL REQUEST FROM THE LANDSCAPE ARCHITECT PARAMETER VARIANCES.
7. THE IRRIGATION SYSTEM CONTROLLER IS TO BE LOCATED WITHIN THE BUILDING OR SITE IN AN INCONSPICUOUS LOCATION, AS DIRECTED BY THE OWNER. REFERENCE SHOULD BE MADE TO THE ELECTRICAL PLANS PRIOR TO ENSURE A POWER SUPPLY IS ACCESSIBLE FOR THE LOCATION SELECTED.
8. ALL PIPING IS TO BE PVC CLASS 200 FOR LATERAL, SYSTEM, AND ZONES LINES. ALL MAIN LINE (CONTINUALLY CHARGED) PIPING IS TO BE PVC SCHEDULE 40. SLEEVES ARE TO BE BURIED A MINIMUM OF 16" DEEP. ALL LINES ARE TO BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS.
9. AT LOCATIONS WHERE THE SYSTEM EXTENDS BENEATH PAVEMENT, LINES ARE TO BE INSERTED INTO PVC SCHEDULE 40 SLEEVES. LOCATION OF SLEEVES IS TO BE COORDINATED WITH THE SITE CONTRACTOR PRIOR TO THE INSTALLATION OF ANY PAVEMENT. FOR ALL LOCATIONS THAT EXTEND BENEATH PAVED SURFACES THAT WILL BE USED BY A VEHICULAR TRAFFIC, THE MINIMUM DEPTH OF SLEEVES WILL BE 24", AND THE MINIMUM DEPTH FOR LINES EXTENDING BENEATH PUBLIC ROADWAYS IS TO BE 36" OR PER LOCAL CODE.
10. THE IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN SENSOR AND AUTOMATIC SHUT-OFF FOR THOSE TIMES WHEN ADEQUATE RAINFALL HAS OCCURRED FOR THE LANDSCAPE.
11. PROVIDED AN IRRIGATION PLAN IS NOT INCLUDED IN THE CONSTRUCTION DOCUMENTS, THE LANDSCAPE CONTRACTOR IS TO PROVIDE A SCHEMATIC IRRIGATION SYSTEM DESIGN WHICH INDICATES THE HEAD LOCATIONS, PIPING DIAGRAM, PIPE SIZES, VALVE LOCATIONS, AND WATER SOURCE CONNECTION. THIS PLAN IS TO REFLECT THE LANDSCAPE PLANTING PLAN INCLUDED AS A PART OF THIS SET. THE IRRIGATION PLAN IS TO BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ANY WORK BEING COMMENCED.

MASTER LANDSCAPE PLAN MATERIALS SCHEDULE

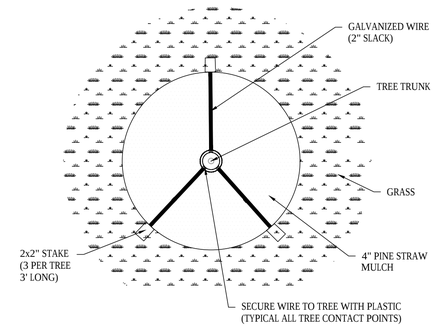
QUANTITY	BOTANICAL NAME	DESCRIPTION	ROOT (MIN.)	HEIGHT (MIN.)	SPREAD (MIN.)	CALIPER (MIN.)	NOTES
TREE							
1	ACER RUBRUM	RED MAPLE	B&B	8-10'	5-7'	-	WELL BRANCHED
6	BETULA NIGRA	RIVER BIRCH	B&B	8-10'	4-6'	-	WELL BRANCHED
10	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	B&B	8-10'	6-8'	-	TREE FORM
7	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	B&B	8-10'	4-6'	-	WELL BRANCHED
3	QUERCUS PALUSTRIS	PIN OAK	B&B	8-10'	5-7'	-	WELL BRANCHED
1	SALIX BABYLONICA	WEEPING WILLOW	B&B	8-10'	5-7'	-	WELL BRANCHED
SHRUBS							
19	RHAPHIOLEPOS INDICA	HAWTHORN 'SNOW WHITE'	3 GAL	-	-	-	FULL MATERIAL
23	ROSA RADRAZZ	DOUBLE KNOCKOUT ROSE RED	3 GAL	-	-	-	FULL MATERIAL
45	ROSA MEIGALPIO	RED DRIFT ROSE	7 GAL	-	-	-	FULL MATERIAL
26	LIGUSTRUM JAPONICUM	LIGUSTRUM RECURVE	3 GAL	-	-	-	FULL MATERIAL
1	CYCAS REVOLUTE	SAGO PALM	3 GAL	-	-	-	FULL MATERIAL
11	JUNIPERUS HORIZONTALIS	CREEPING JUNIPER	3 GAL	-	-	-	FULL MATERIAL
9	PENNISETUM SETACEUM	FOUNTAIN GRASS	3 GAL	-	-	-	FULL MATERIAL
28	RHODENDRON INDICUM	AZALEA 'ENCORE MOONLIGHT'	3 GAL	-	-	-	FULL MATERIAL
10	AGAPANTHUS AFERIANUS	AGAPANTHUS 'LILY OF THE NILE'	3 GAL	-	-	-	FULL MATERIAL
GROUNDCOVER							
90 S.F.	OPHIOPOGON JAPONICUS	MONDO GRASS	1 POT	-	-	-	5" SPACING
17,555 S.F.	EREMOCHLOA OPHIUROIDES	CENTIPEDE SOD	-	-	-	-	-
13,021 S.F.	EREMOCHLOA OPHIUROIDES	CENTIPEDE SEED	-	-	-	-	HYDROSEED

NOTE:
ALL TREES SHOULD BE PRUNED ONLY AFTER INSTALL-IN THE THE TREE - PRUNE TO GROWERS SPECIFICATIONS

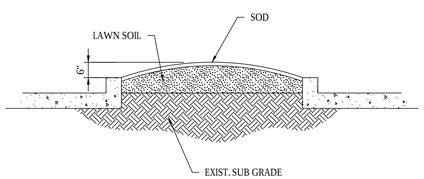
NOTE:
ALL TREES SHALL COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK - INCLUDING TREE PIT DEPTH AND WIDTH



1 TREE STAKING (8' HEIGHT & GREATER)
N.T.S.

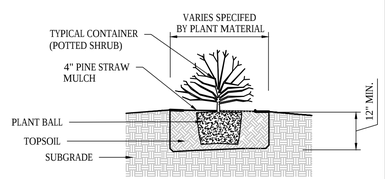


2 TREE STAKING PLAN (8' HEIGHT & GREATER)
N.T.S.

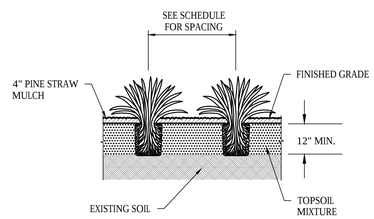


3 SOD PLANTING DETAIL
N.T.S.

NOTE:
PRUNE SHRUB AS RECOMMENDED BY GROWER ONLY AFTER THE PLANT HAS BEEN WATERED IN TO THE PLANTING SOIL.



4 CONTAINER SHRUB PLANTING DETAIL
N.T.S.



5 DECORATIVE GRASS PLANTING DETAIL
N.T.S.

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AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 LANDSCAPE NOTES & DETAILS
1" = 20'-0"

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NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
CRUMB ENGINEERING LLC
4609 FAIRFIELD STREET
METAIRIE, LA 70006
504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
638 VILLAGE LANE NORTH
MANDEVILLE, LA 70471
985.727.9377

revisions

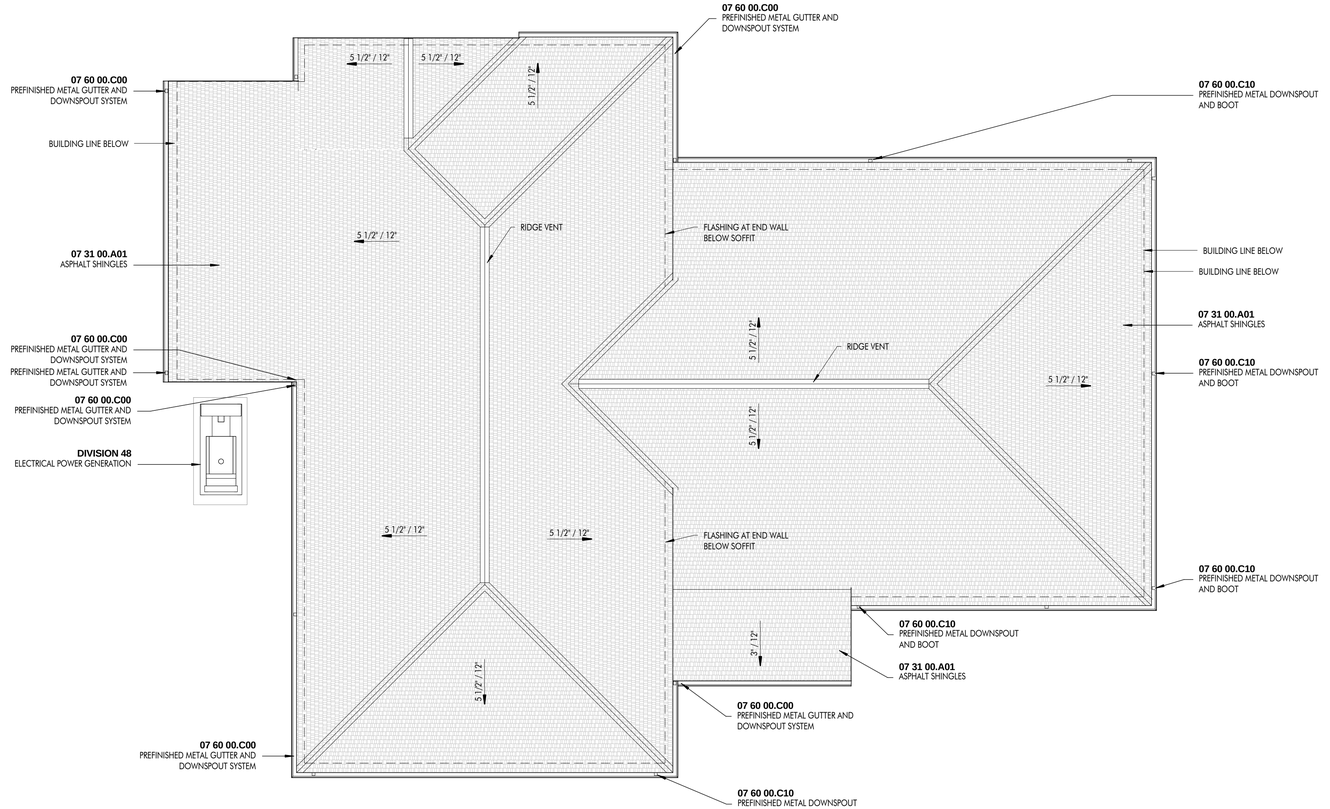
No.	Description	Date

PROJ. #: C16-0058

date
FEBRUARY 23, 2017

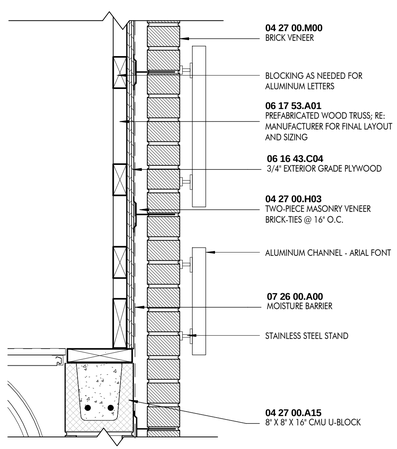
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Kyle Associates, LLC
Planning, Engineering, and Landscape Architecture
638 Village Lane N. • Mandeville, LA 70471 • 985.727.9377



1 ROOF PLAN

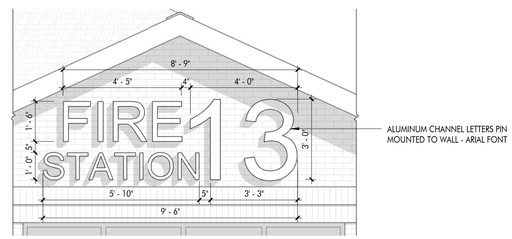
1/8" = 1'-0"



2 SECTION - WALL LETTERING

1 1/2" = 1'-0"

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STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO



3 ELEVATION - WALL LETTERING

3/8" = 1'-0"

DOMAIN APAC
ARCHITECTURE
8316 kelwood avenue
baton rouge, la 70806
225.216.3770 ph

- JOINT VENTURE -

greenleaf architects
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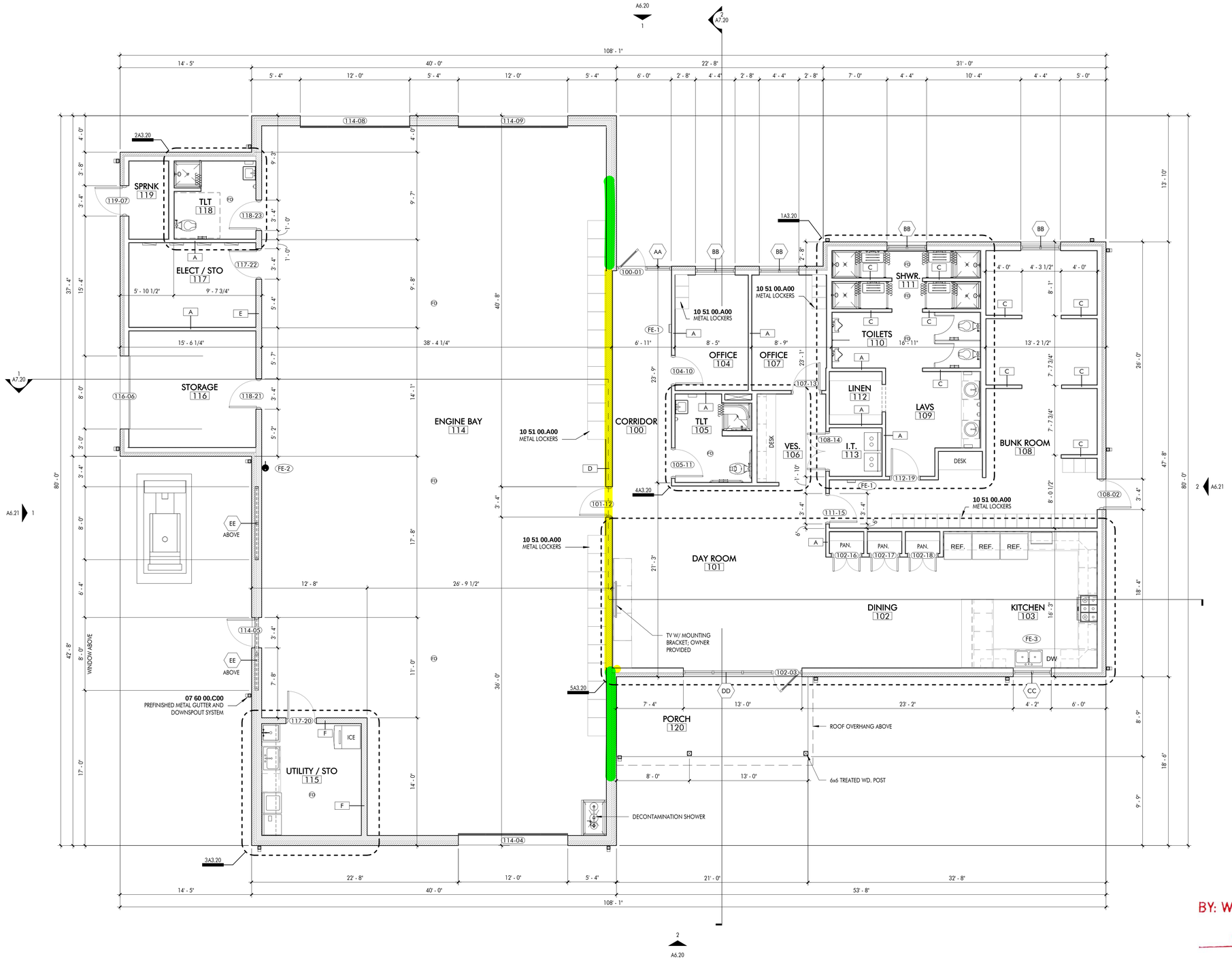
date
FEBURARY 23, 2017

sheet
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FEBURARY 23, 2017

LEGEND

- FE-1 — FIRE EXTINGUISHER: SURFACE MOUNTED CABINET
- FE-2 — FIRE EXTINGUISHER: SURFACE MOUNTED BRACKET
- FE-3 — FIRE EXTINGUISHER: UNDER COUNTER WITH BRACKET
- FD — FLOOR DRAIN



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1 FLOOR PLAN - STATION
3/16" = 1'-0"

FEBURARY 23, 2017

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225.216.3770 ph

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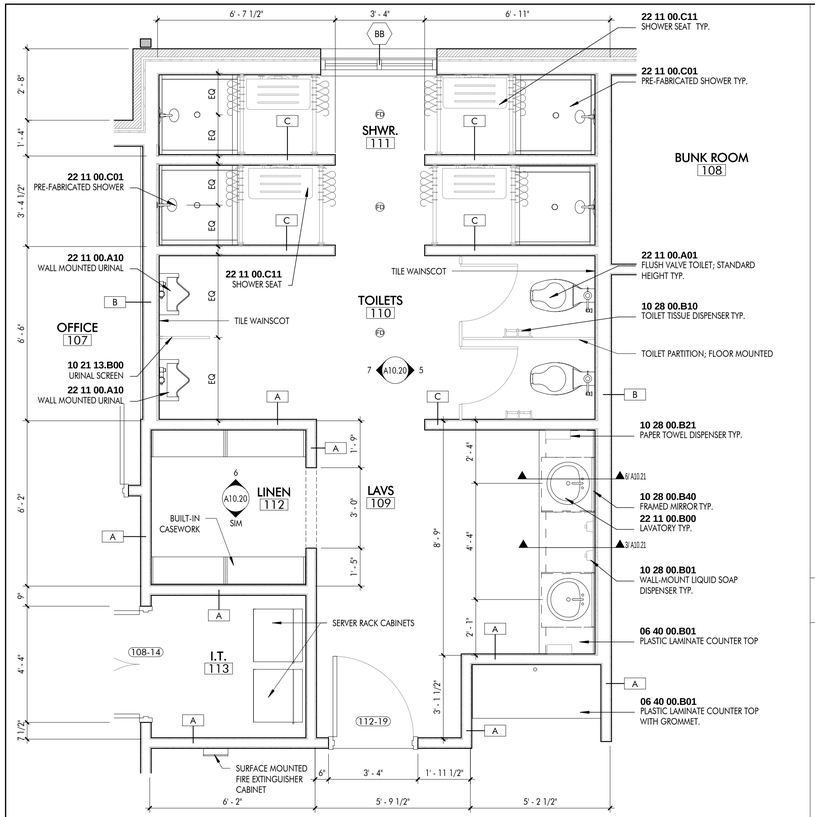
revisions

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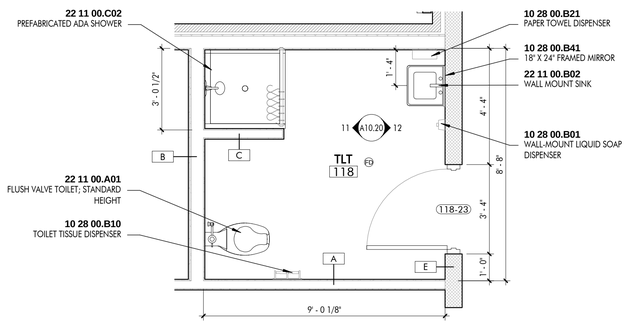
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FEBURARY 23, 2017

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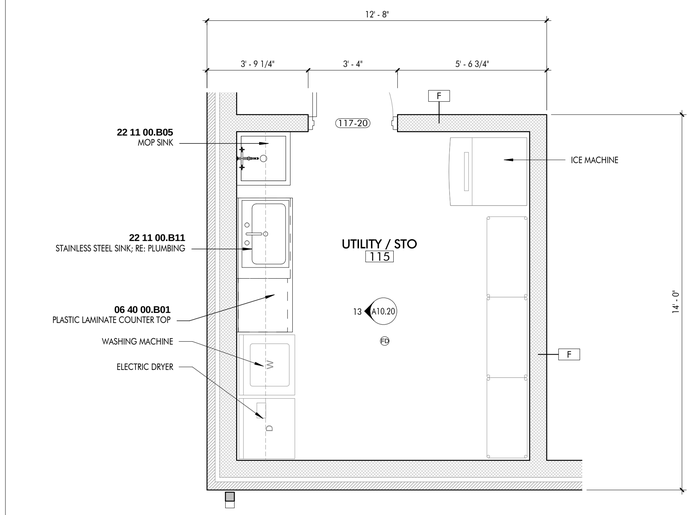
1 ENLG PLAN - SHOWERS/LAV.

3/8" = 1'-0"



2 ENLG PLAN - TOILET ROOM 118

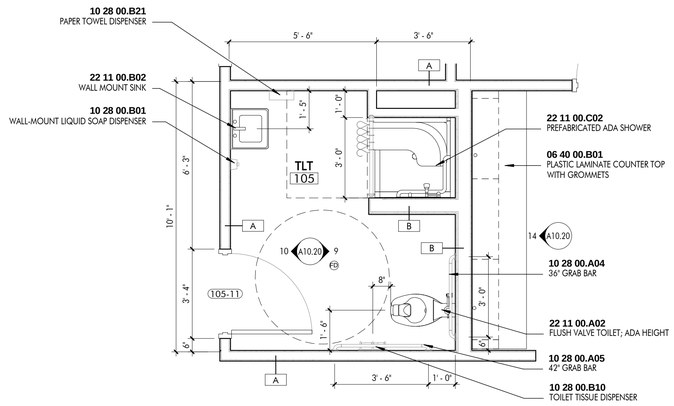
3/8" = 1'-0"



3 ENLG PLAN - UTILITY

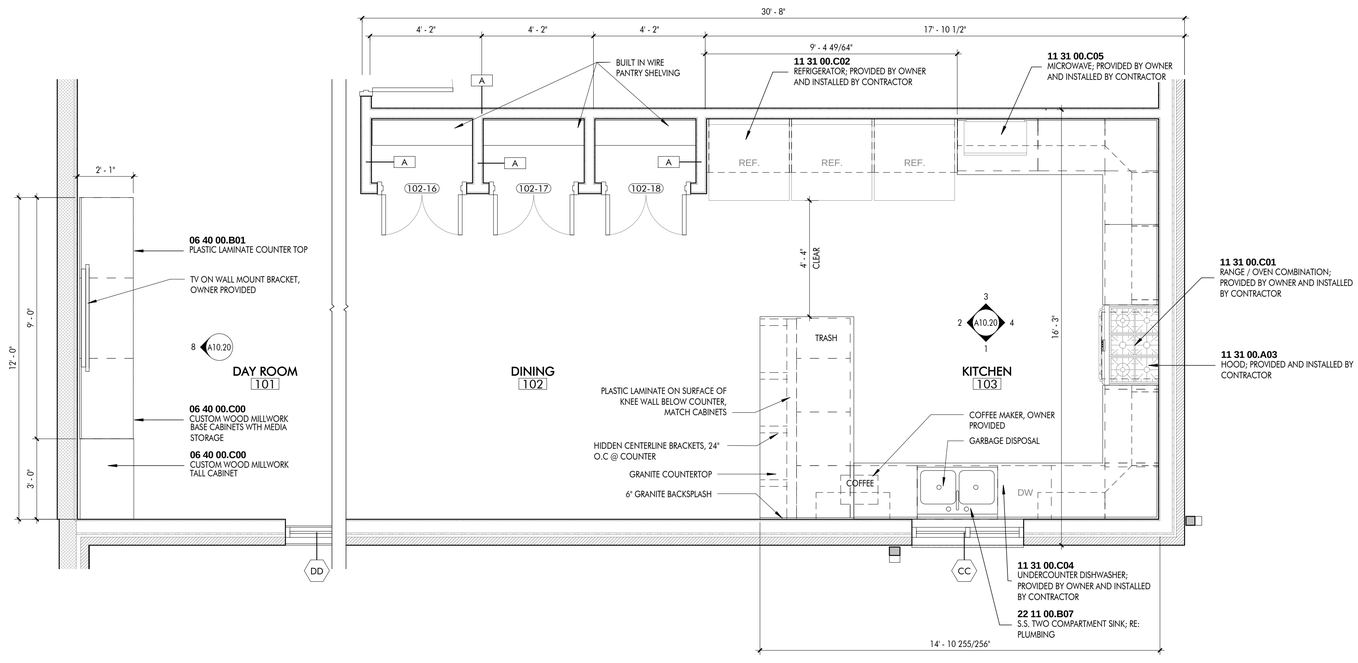
3/8" = 1'-0"

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4 ENLG PLAN - TOILET 105

3/8" = 1'-0"



5 ENLG PLAN - KITCHEN

3/8" = 1'-0"

FEBURARY 23, 2017

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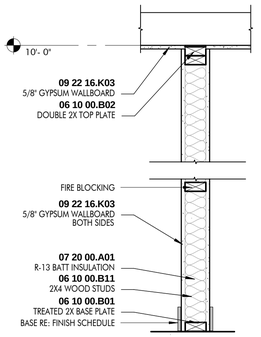
revisions

No.	Description	Date

PROJ. #: C16-0058

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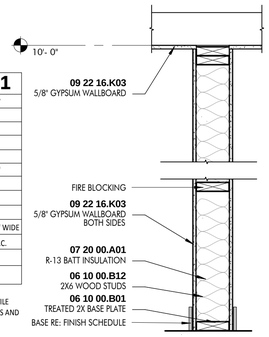
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PARTITION IDENTIFICATION PLAN SYMBOL		A	A1
BASIC PARTITION THICKNESS		4 3/4"	4 3/4"
FIRE RATING (HRS)		N/A	N/A
FIRE TEST NUMBER		N/A	N/A
ACOUSTICAL RATING (STC)		-	-
ACOUSTICAL TEST NUMBER		-	-
INSULATION THICKNESS		3 1/2"	3 1/2"
GWB THICKNESS		5/8"	5/8"
ACOUSTICAL JOINTS		-	-
FIRE-RESISTIVE JOINTS		N/A	N/A
STUD SIZE		3 1/2" WIDE	3 1/2" WIDE
STUD SPACING (O.C.)		16" O.C.	16" O.C.
PARTITION TO STRUCTURE ABOVE	STUD TO STRUCT ABOVE	YES	YES
	GYP. TO STRUCT ABOVE	YES	YES

REMARKS:
*INSTALL CONCRETE BOARD BEHIND ALL SHOWER UNITS AND TILE
*INSTALL MOISTURE RESISTANT GYP BOARD IN ALL BATHROOMS AND SHOWER AREAS
* 4" TILE WAINSCOT RE: FINISH PLAN / INTERIOR ELEVATIONS
*WALLS ENCLOSING BUNK ROOM 108, OFFICE 104, AND OFFICE 107 SHALL BE A SMOKE PARTITION SIMILAR TO PARTITION TYPE A; HOWEVER, THE HEAD, SILL AND PERIMETER OF PARTITION SHALL BE CAULKED AND SEALED TO PREVENT THE TRANSFER OF SMOKE, INCLUDING ALL PENETRATIONS.

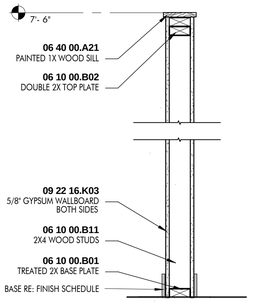
A NON-RATED 2x4 WOOD STUD WALL
NOT TO SCALE



PARTITION IDENTIFICATION PLAN SYMBOL		B
BASIC PARTITION THICKNESS		6 3/4"
FIRE RATING (HRS)		N/A
FIRE TEST NUMBER		N/A
ACOUSTICAL RATING (STC)		-
ACOUSTICAL TEST NUMBER		-
INSULATION THICKNESS		5 1/2"
GWB THICKNESS		5/8"
ACOUSTICAL JOINTS		-
FIRE-RESISTIVE JOINTS		N/A
STUD SIZE		5 1/2" WIDE
STUD SPACING (O.C.)		16" O.C.
PARTITION TO STRUCTURE ABOVE	STUD TO STRUCT ABOVE	YES
	GYP. TO STRUCT ABOVE	YES

REMARKS:
*INSTALL CONCRETE BOARD BEHIND ALL SHOWER UNITS AND TILE
*INSTALL MOISTURE RESISTANT GYP BOARD IN ALL BATHROOMS AND SHOWER AREAS
* 4" TILE WAINSCOT RE: FINISH PLAN / INTERIOR ELEVATIONS

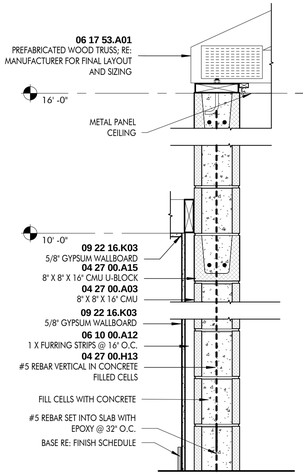
B NON-RATED 2x6 WOOD STUD WALL
NOT TO SCALE



PARTITION IDENTIFICATION PLAN SYMBOL		C
BASIC PARTITION THICKNESS		4 3/4"
FIRE RATING (HRS)		N/A
FIRE TEST NUMBER		N/A
ACOUSTICAL RATING (STC)		-
ACOUSTICAL TEST NUMBER		-
INSULATION THICKNESS		None
GWB THICKNESS		5/8"
ACOUSTICAL JOINTS		-
FIRE-RESISTIVE JOINTS		N/A
STUD SIZE		3 1/2" WIDE
STUD SPACING (O.C.)		16" O.C.
PARTITION TO STRUCTURE ABOVE	STUD TO STRUCT ABOVE	NO
	GYP. TO STRUCT ABOVE	NO

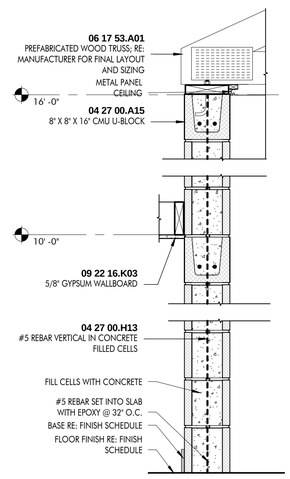
REMARKS:

C NON-RATED 2x4 WOOD STUD WALL-PARTIAL HEIGHT
NOT TO SCALE



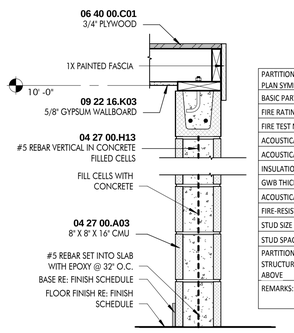
PARTITION IDENTIFICATION PLAN SYMBOL		D
BASIC PARTITION THICKNESS		9"
FIRE RATING (HRS)		2 HR
FIRE TEST NUMBER		U905
ACOUSTICAL RATING (STC)		-
ACOUSTICAL TEST NUMBER		-
INSULATION THICKNESS		-
GWB THICKNESS		5/8"
ACOUSTICAL JOINTS		-
FIRE-RESISTIVE JOINTS		N/A
STUD SIZE		7 5/8" WIDE
STUD SPACING (O.C.)		N/A
PARTITION TO STRUCTURE ABOVE	STUD TO STRUCT ABOVE	YES
	GYP. TO STRUCT ABOVE	YES
REMARKS:		

D RATED BLOCK WALL WITH FURRING AND GYP
NOT TO SCALE



PARTITION IDENTIFICATION PLAN SYMBOL		E
BASIC PARTITION THICKNESS		7 -5/8"
FIRE RATING (HRS)		N/A
FIRE TEST NUMBER		N/A
ACOUSTICAL RATING (STC)		-
ACOUSTICAL TEST NUMBER		-
INSULATION THICKNESS		-
GWB THICKNESS		-
ACOUSTICAL JOINTS		-
FIRE-RESISTIVE JOINTS		N/A
STUD SIZE		7 5/8" WIDE
STUD SPACING (O.C.)		N/A
PARTITION TO STRUCTURE ABOVE	STUD TO STRUCT ABOVE	YES
	GYP. TO STRUCT ABOVE	YES
REMARKS:		

E LOAD BEARING BLOCK WALL
NOT TO SCALE



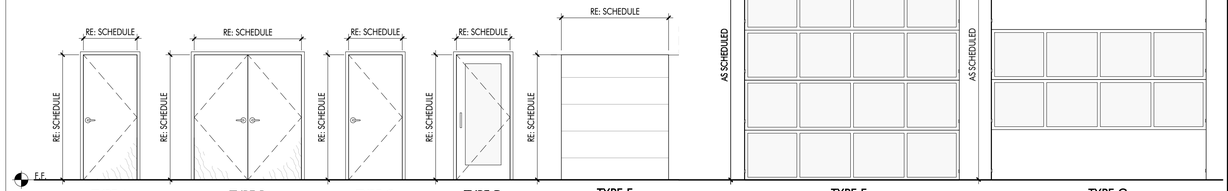
PARTITION IDENTIFICATION PLAN SYMBOL		F
BASIC PARTITION THICKNESS		7 - 5/8"
FIRE RATING (HRS)		N/A
FIRE TEST NUMBER		N/A
ACOUSTICAL RATING (STC)		-
ACOUSTICAL TEST NUMBER		-
INSULATION THICKNESS		-
GWB THICKNESS		-
ACOUSTICAL JOINTS		-
FIRE-RESISTIVE JOINTS		N/A
STUD SIZE		7 5/8" WIDE
STUD SPACING (O.C.)		N/A
PARTITION TO STRUCTURE ABOVE	STUD TO STRUCT ABOVE	YES
	GYP. TO STRUCT ABOVE	YES
REMARKS:		

F PARTIAL HEIGHT CMU BLOCK WALL
NOT TO SCALE

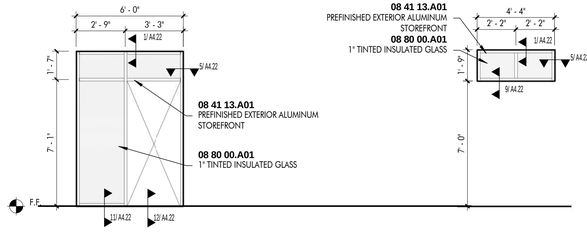
1 PARTITION TYPES
1" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	DOOR TYPE	FIRE RATING	DOOR					DOOR NUMBER	FRAME		HARDWARE SET	KEY SET	DETAILS			DOOR NUMBER	REMARKS
			WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH		MATERIAL	FINISH			HEAD	JAMB	THRESHOLD		
100-01	D		3' - 0"	7' - 0"	1 3/4"	ALUM./GLASS	CLR. ANOD.	100-01	ALUM.	CLR. ANOD			1/4.22	5/4.22	11/4.22, 12/4.22	100-01	
108-02	C		3' - 0"	7' - 0"	1 3/4"	H.M.	PT-4	108-02	H.M.	PT-4			4/4.21	8/4.21		108-02	
102-03	D		3' - 0"	7' - 0"	1 3/4"	ALUM./GLASS	CLR. ANOD.	102-03	ALUM.	CLR. ANOD			1/4.22	5/4.22	11/4.22, 12/4.22	102-03	
114-04	G		12' - 0"	14' - 0"	1 3/4"	ALUM./GLASS	PRE-FIN.	114-04					10/4.21	7/4.22		114-04	
114-05	C		3' - 0"	7' - 0"	1 3/4"	H.M.	STAIN	114-05	H.M.	PT-4			3/4.22	7/4.21		114-05	
116-06	E		8' - 0"	8' - 0"	1 3/8"	STEEL	PRE-FIN.	116-06					11/4.21	7/4.22		116-06	
119-07	C		3' - 0"	7' - 0"	1 3/4"	H.M.	PT-4	119-07	H.M.	PT-4			4/4.21	8/4.21		119-07	
114-08	F		12' - 0"	14' - 0"	1 3/4"	ALUM./GLASS	PRE-FIN.	114-08					10/4.21	7/4.22		114-08	
114-09	F		12' - 0"	14' - 0"	1 3/4"	ALUM./GLASS	PRE-FIN.	114-09					10/4.21	7/4.22		114-09	
104-10	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	104-10	H.M.	PT-4			2/4.21	6/4.21	4/4.21	104-10	
105-11	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	105-11	H.M.	PT-4			2/4.21	6/4.21	4/4.21	105-11	
101-12	C	45	3' - 0"	7' - 0"	1 3/4"	H.M.	PT-4	101-12	H.M.	PT-4			4/4.22	8/4.22	4/4.21	101-12	
107-13	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	107-13	H.M.	PT-4			2/4.21	6/4.21	4/4.21	107-13	
108-14	B		4' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	108-14	H.M.	PT-4			2/4.21	6/4.21	4/4.21	108-14	
111-15	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	111-15	H.M.	PT-4			2/4.21	6/4.21	4/4.21	111-15	
102-16	B		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	102-16	H.M.	PT-4			2/4.21	6/4.21	4/4.21	102-16	
102-17	B		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	102-17	H.M.	PT-4			2/4.21	6/4.21	4/4.21	102-17	
102-18	B		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	102-18	H.M.	PT-4			2/4.21	6/4.21	4/4.21	102-18	
112-19	A		3' - 0"	7' - 0"	1 3/4"	WOOD	STAIN	112-19	H.M.	PT-4			2/4.21	6/4.21	4/4.21	112-19	
117-20	C		3' - 0"	7' - 0"	1 3/4"	H.M.	PT-4	117-20	H.M.	PT-4			1/4.21	5/4.21	4/4.21	117-20	
118-21	C		3' - 0"	7' - 0"	1 3/4"	H.M.	PT-4	118-21	H.M.	PT-4			1/4.21	5/4.21	4/4.21	118-21	
117-22	C		3' - 0"	7' - 0"	1 3/4"	H.M.	PT-4	117-22	H.M.	PT-4			1/4.21	5/4.21	4/4.21	117-22	
118-23	C		3' - 0"	7' - 0"	1 3/4"	H.M.	PT-4	118-23	H.M.	PT-4			1/4.21	5/4.21	4/4.21	118-23	



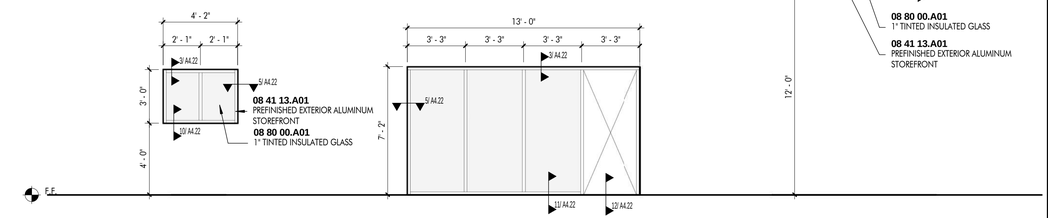
2 *** DOOR TYPES ***
1/4" = 1'-0"



STOREFRONT TYPE AA
CLEAR ANODIZED EXTERIOR ALUMINUM STOREFRONT SYSTEM WITH INSULATED AND TINTED GLAZING

STOREFRONT TYPE BB
CLEAR ANODIZED EXTERIOR ALUMINUM STOREFRONT SYSTEM WITH INSULATED AND TINTED GLAZING
**BLACK OUT ROLLER SHADES INSTALLED ON INTERIOR

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO



STOREFRONT TYPE CC
CLEAR ANODIZED EXTERIOR ALUMINUM STOREFRONT SYSTEM WITH INSULATED AND TINTED GLAZING

STOREFRONT TYPE DD
CLEAR ANODIZED EXTERIOR ALUMINUM STOREFRONT SYSTEM WITH INSULATED AND TINTED GLAZING

STOREFRONT TYPE EE
CLEAR ANODIZED EXTERIOR ALUMINUM STOREFRONT SYSTEM WITH INSULATED AND TINTED GLAZING

3 STORE FRONT WINDOW TYPES
1/4" = 1'-0"

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landscape, civil, and structural engineer:
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638 VILLAGE LANE NORTH
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985.727.9377

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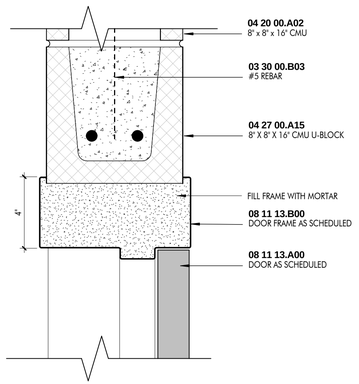
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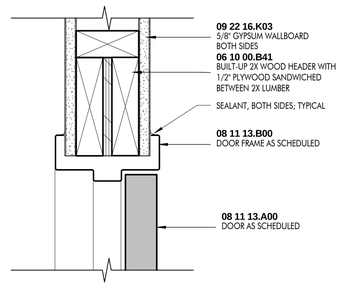
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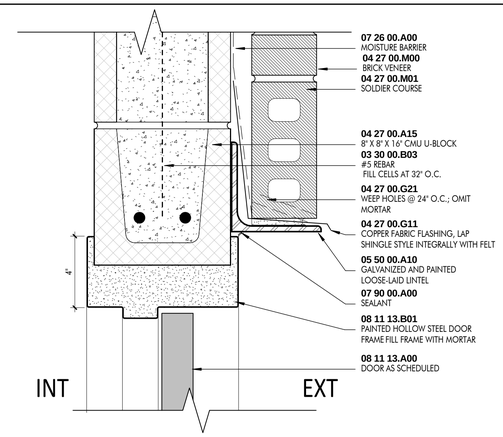
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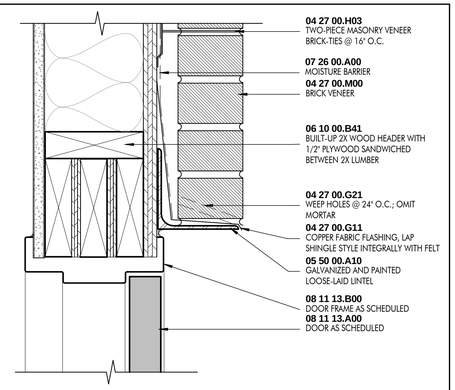
1 HEAD - HM DOOR CMU
3" = 1'-0"



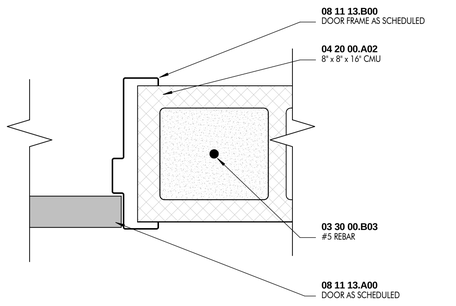
2 HEAD - 2X4 INT HM DOOR
3" = 1'-0"



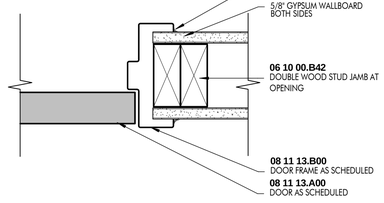
3 HEAD-HM CMU W/ BRICK VENEER
3" = 1'-0"



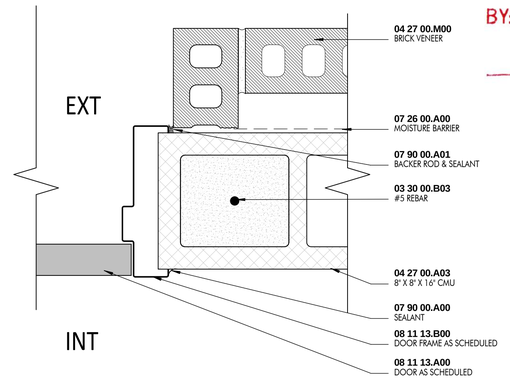
4 HEAD - HM DOOR W/ BRICK VENNER
3" = 1'-0"



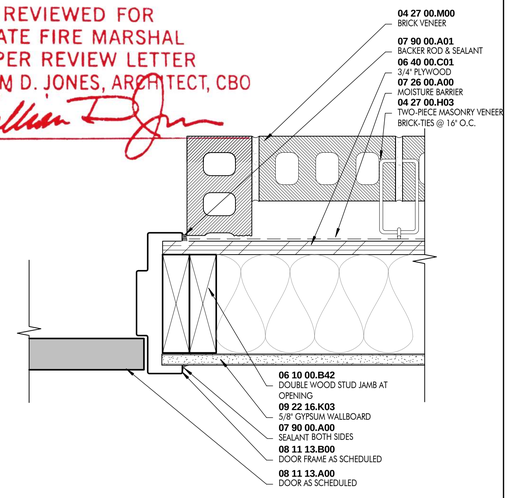
5 JAMB-HM DOOR CMU
3" = 1'-0"



6 JAMB - 2X4 INT HM DOOR
3" = 1'-0"

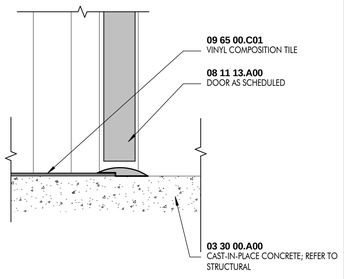


7 JAMB-HM CMU W/ BRICK VENEER
3" = 1'-0"

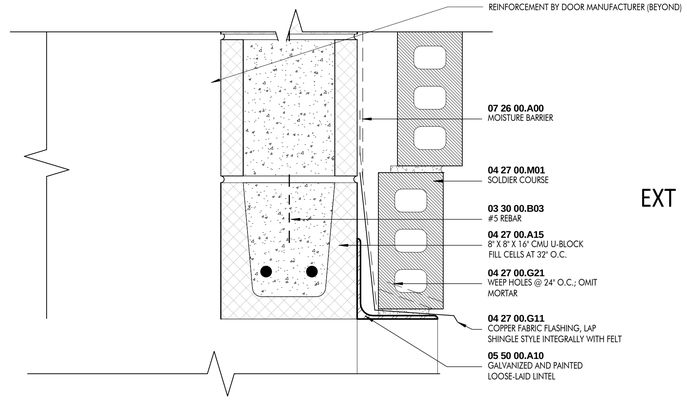


8 JAMB - HM DOOR W/ BRICK VENEER
3" = 1'-0"

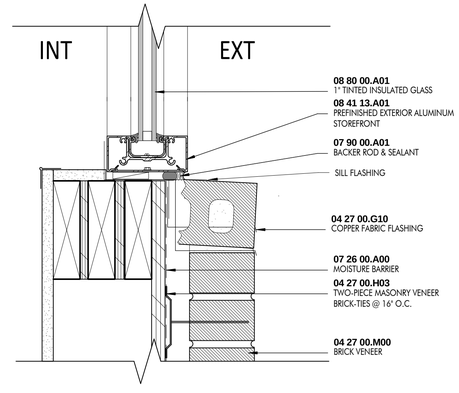
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STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO



9 SILL-INT HM DOOR
3" = 1'-0"



10 HEAD-OVD CMU W/ BRICK VENEER
3" = 1'-0"



11 SILL - WINDOW WOOD STUD W/ BRICK
3" = 1'-0"

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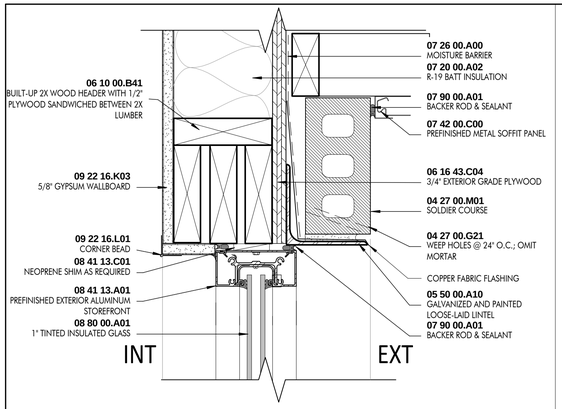
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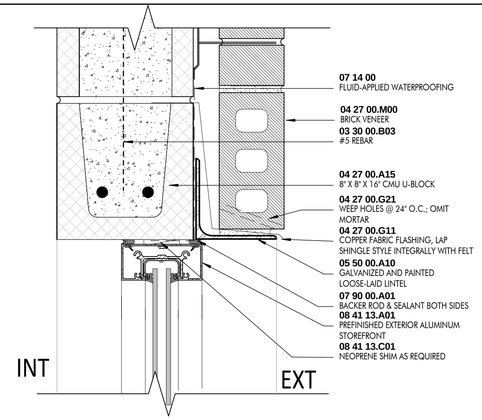
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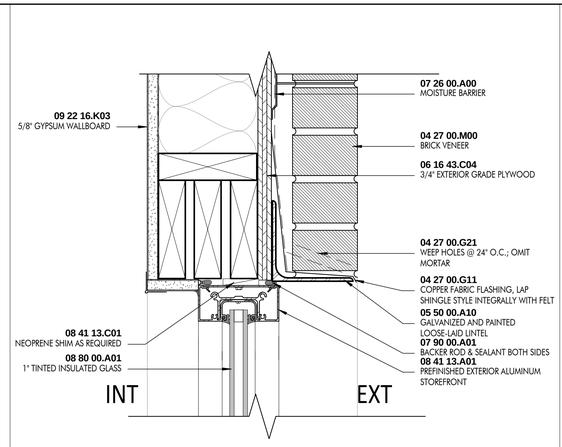
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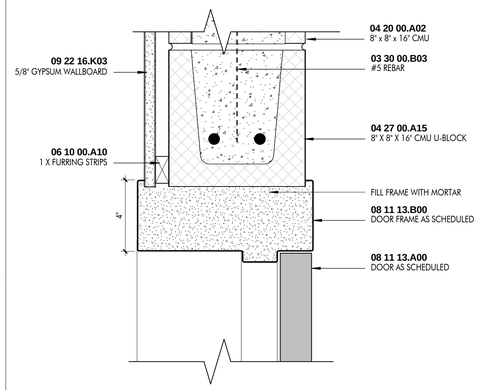
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3" = 1'-0"



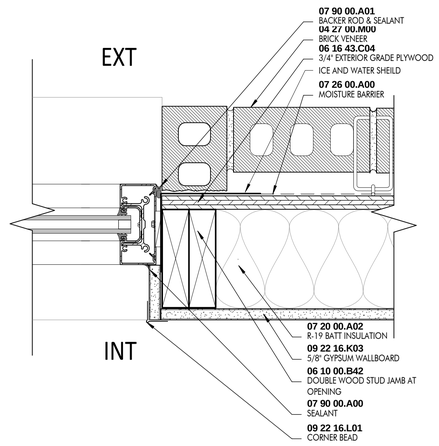
2 HEAD - STOREFRONT CMU W/ BRICK
3" = 1'-0"



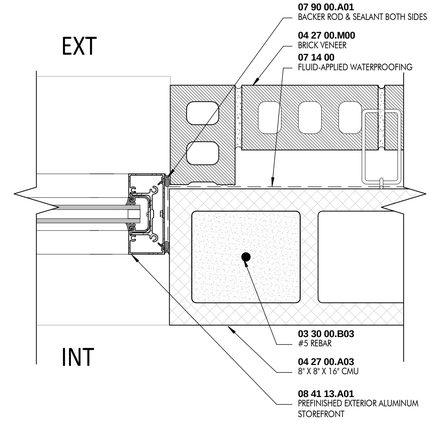
3 HEAD - SF STUD WALL / BRICK VENEER
3" = 1'-0"



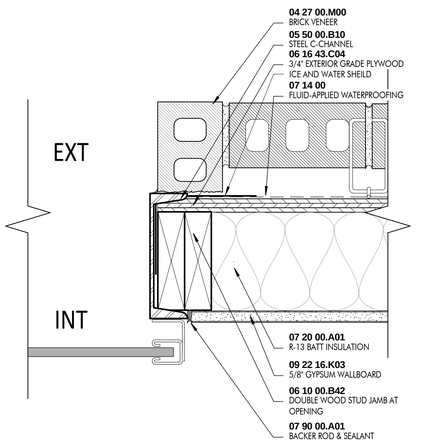
4 HEAD - HM DOOR FIRE RATED CMU
3" = 1'-0"



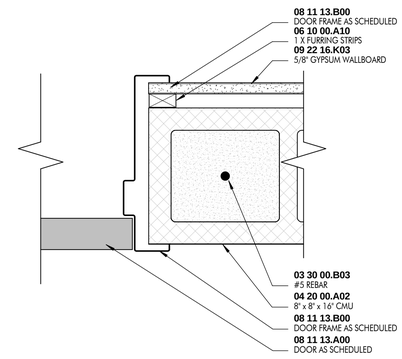
5 JAMB - STOREFRONT WOOD W/ BRICK
3" = 1'-0"



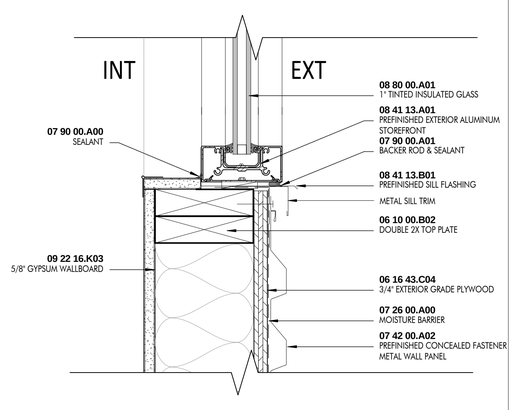
6 JAMB - STOREFRONT CMU W/ BRICK
3" = 1'-0"



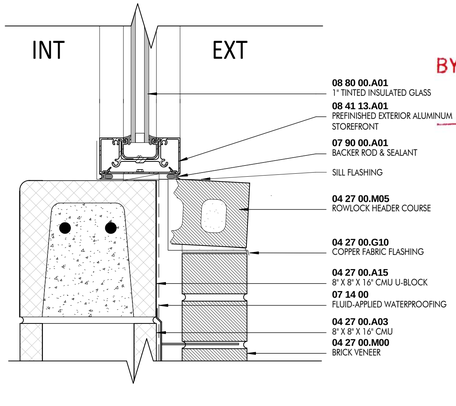
7 JAMB - COILING DOOR
3" = 1'-0"



8 JAMB-HM DOOR FIRE RATED CMU
3" = 1'-0"

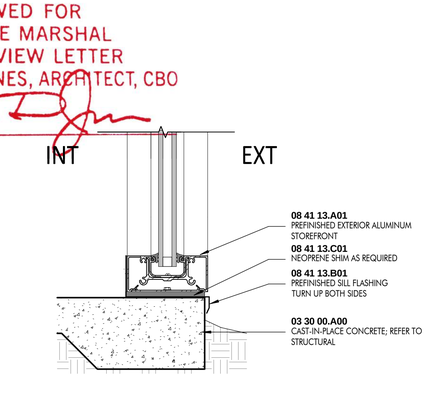


9 SILL - STOREFRONT HARDI
3" = 1'-0"

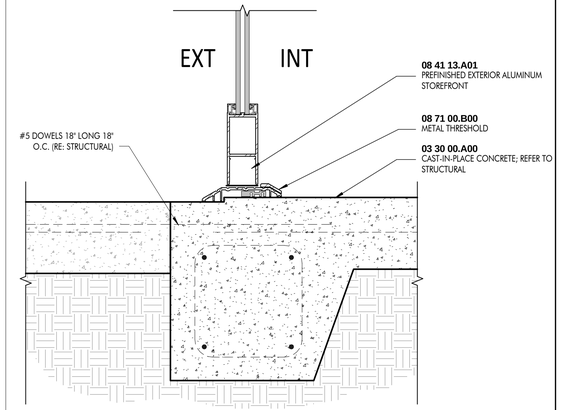


10 SILL - WINDOW CMU W/ BRICK
3" = 1'-0"

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO



11 SILL - STOREFRONT
3" = 1'-0"



12 SILL - STOREFRONT DOOR
3" = 1'-0"

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225.216.3770 ph

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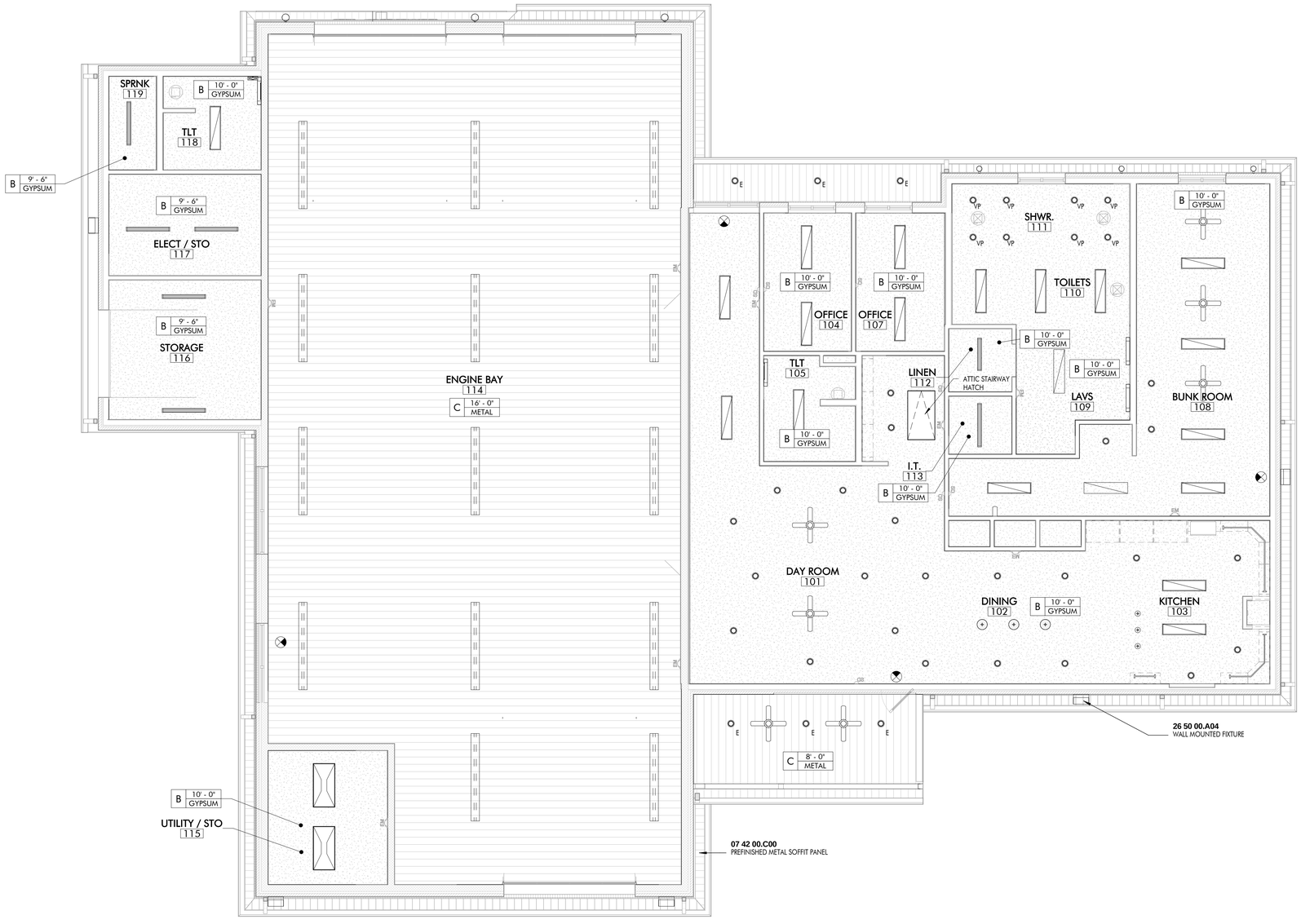
revisions

No.	Description	Date

PROJ. #: C16-0058

date
FEBURARY 23, 2017

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A4.22



CEILING PLAN LEGEND

- CEILING TYPE
- A / 9' - 0" / PT-1 — CEILING HEIGHT ABOVE FINISH FLOOR
- CEILING FINISH
- ROOM NAME 812 — ROOM DESIGNATION TAG
- PENDANT LIGHT
- LINEAR SHOP LIGHT
- CEILING FAN
- FLUORESCENT SHOP LIGHT
- 1X4 TROFFER LIGHT
- SD — SMOKE DETECTOR
- 6" RECESSED CAN LIGHT
- FLUORESCENT SURFACE MOUNT
- VP — RECESSED CAN FOR WET LOCATION
- HEATER/VENT/LIGHT
- UNDER COUNTER LIGHT
- E — EXTERIOR RECESSED CAN
- EXIT SIGN
- EMERGENCY LIGHT
- HEATER/VENT
- EXTERIOR WALL PACK
- EXTERIOR WALL MOUNTED FIXTURE

CEILING PLAN LEGEND

NOTE: REFER TO FINISH LEGEND & SCHEDULE FOR FURTHER INFORMATION

A	EXPOSED TO STRUCTURE
B	PAINTED GYPSUM BARD *MOISTURE RESISTANT @ SHOWER/BATH/TOILET/LAV
C	PRE-FINISHED METAL CEILINGS/SOFFIT PANELS

REVIEWED FOR
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1 STATION - RCP
3/16" = 1'-0"

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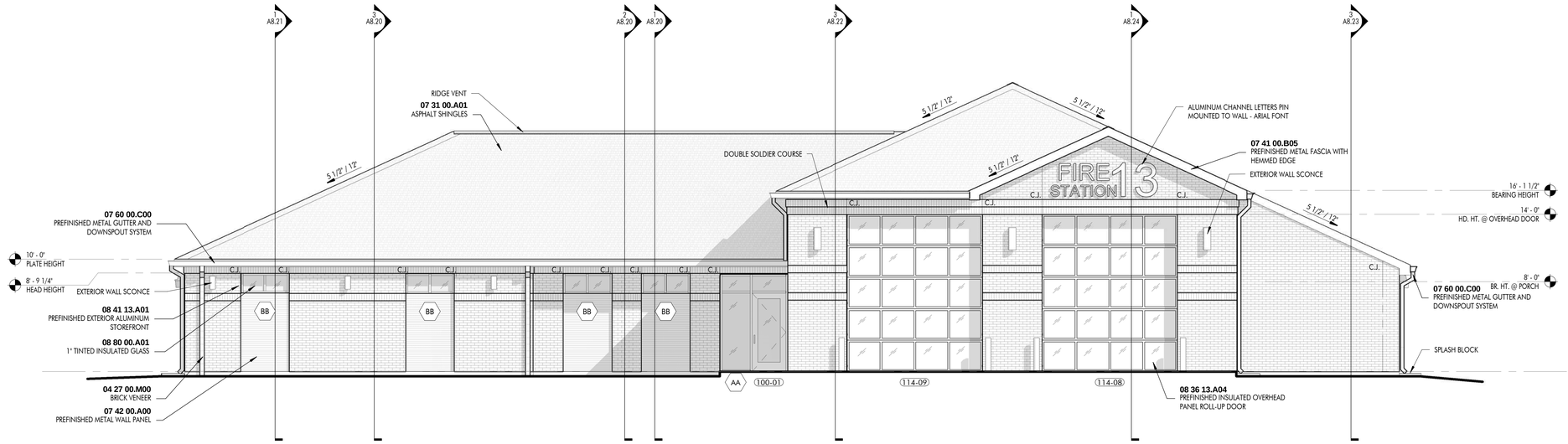
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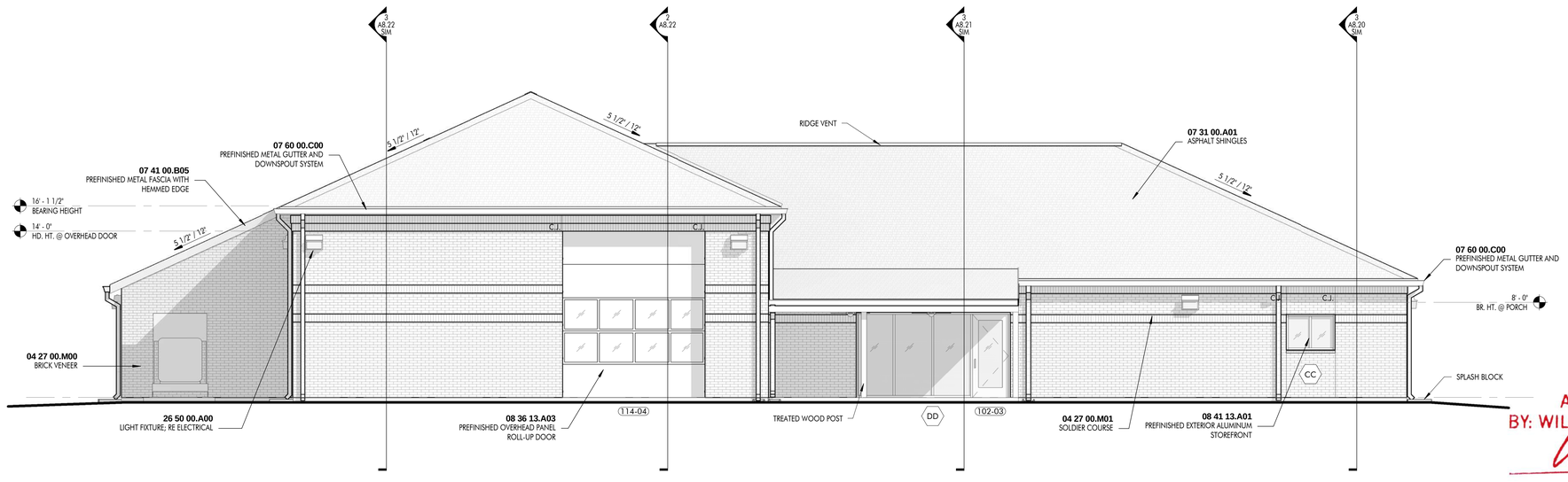
date
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sheet
A5.20



1 NORTH ELEVATION

3/16" = 1'-0"



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2 SOUTH ELEVATION

3/16" = 1'-0"

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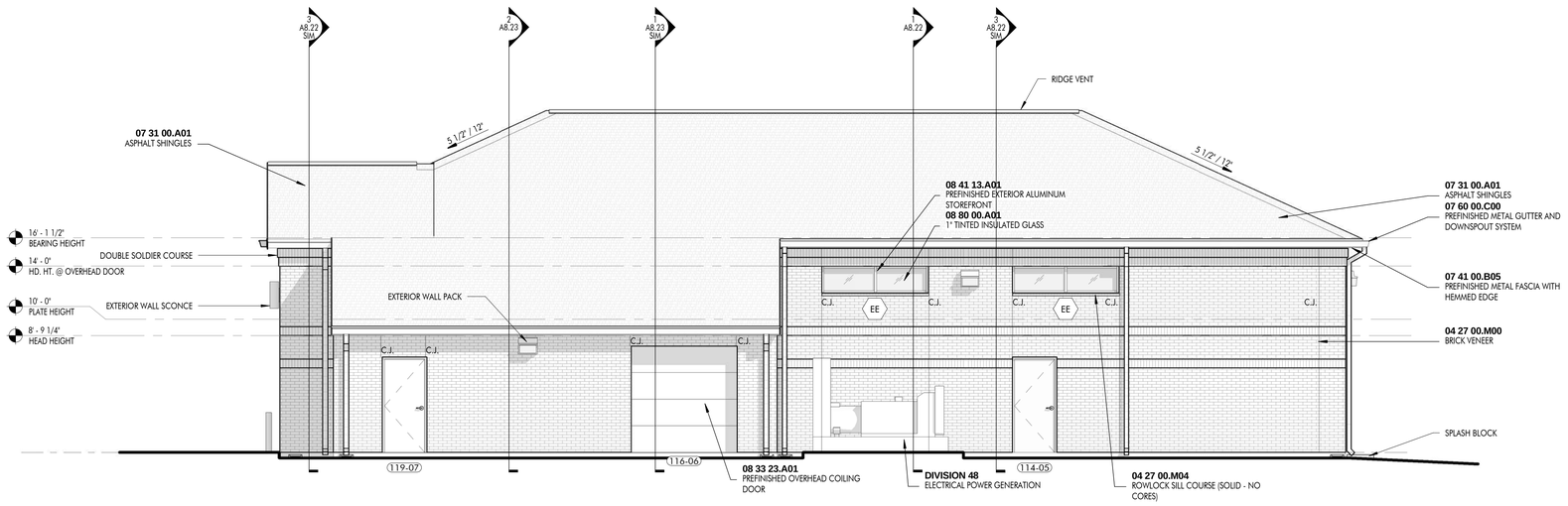
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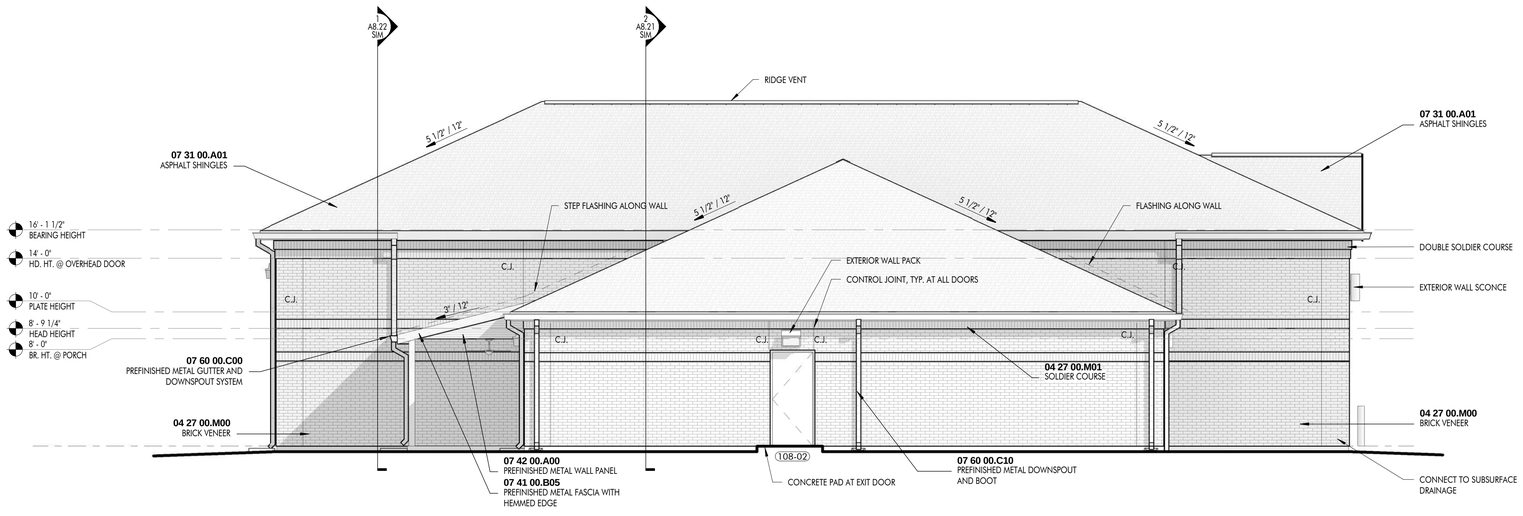
date
FEBURARY 23, 2017

sheet
A6.20



1 EAST ELEVATION

3/16" = 1'-0"



2 WEST ELEVATION

3/16" = 1'-0"

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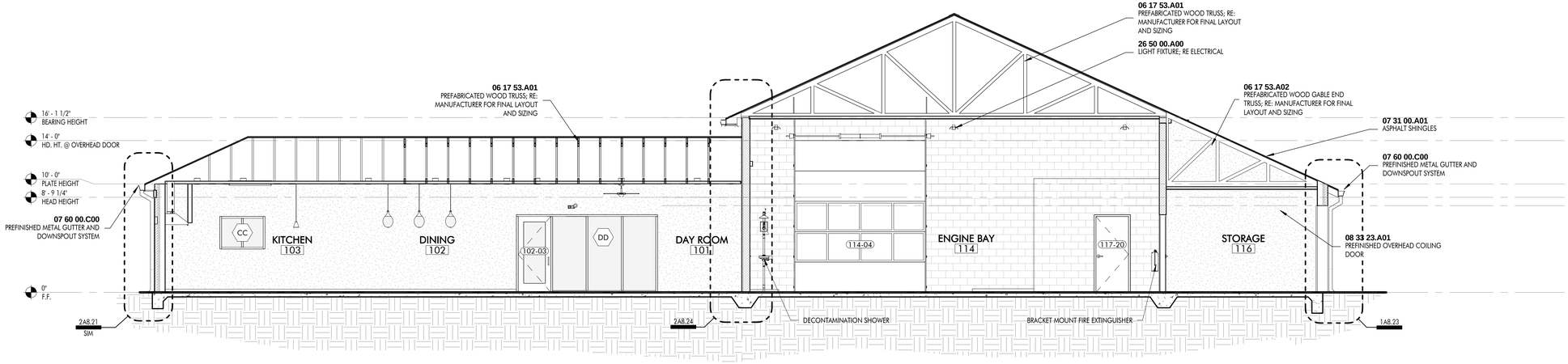
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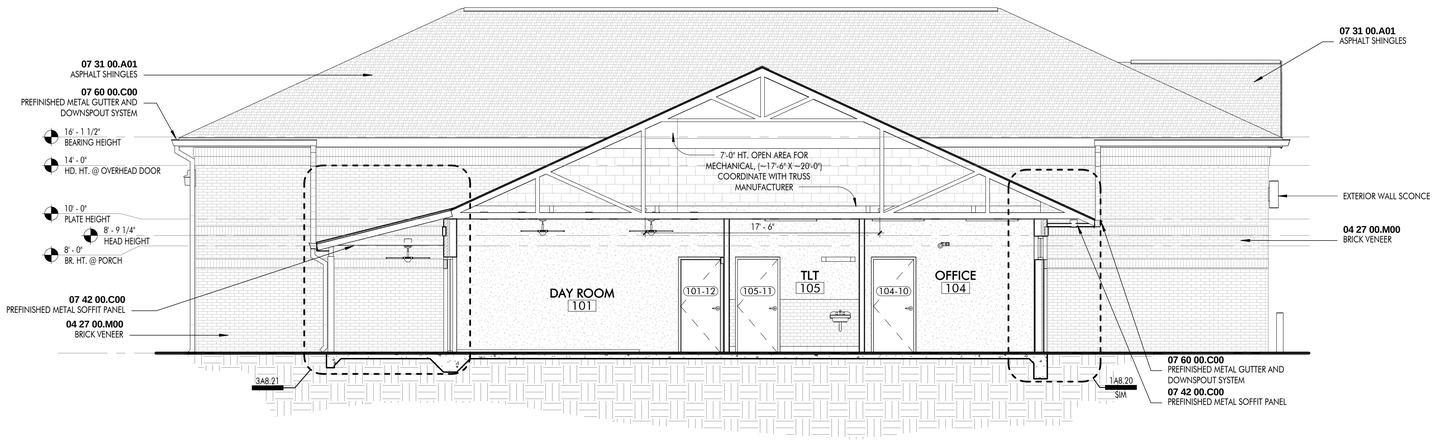
date
FEBURARY 23, 2017

sheet
A6.21



1 BUILDING SECTION A-A

3/16" = 1'-0"



2 BUILDING SECTION B-B

3/16" = 1'-0"

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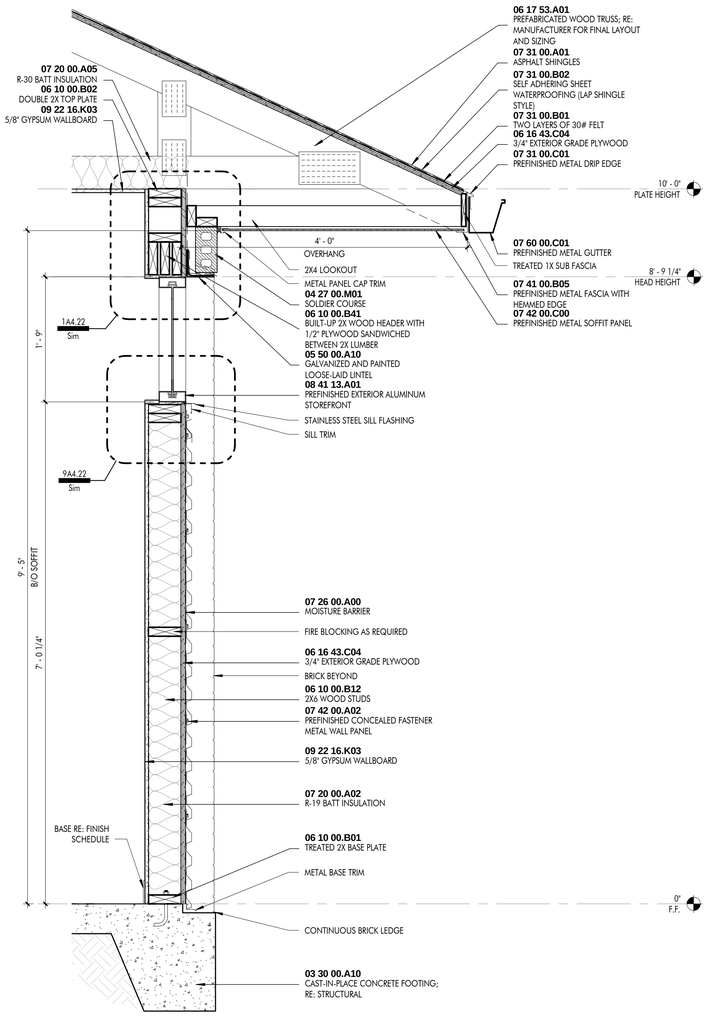
No.	Description	Date

PROJ. #: C16-0058

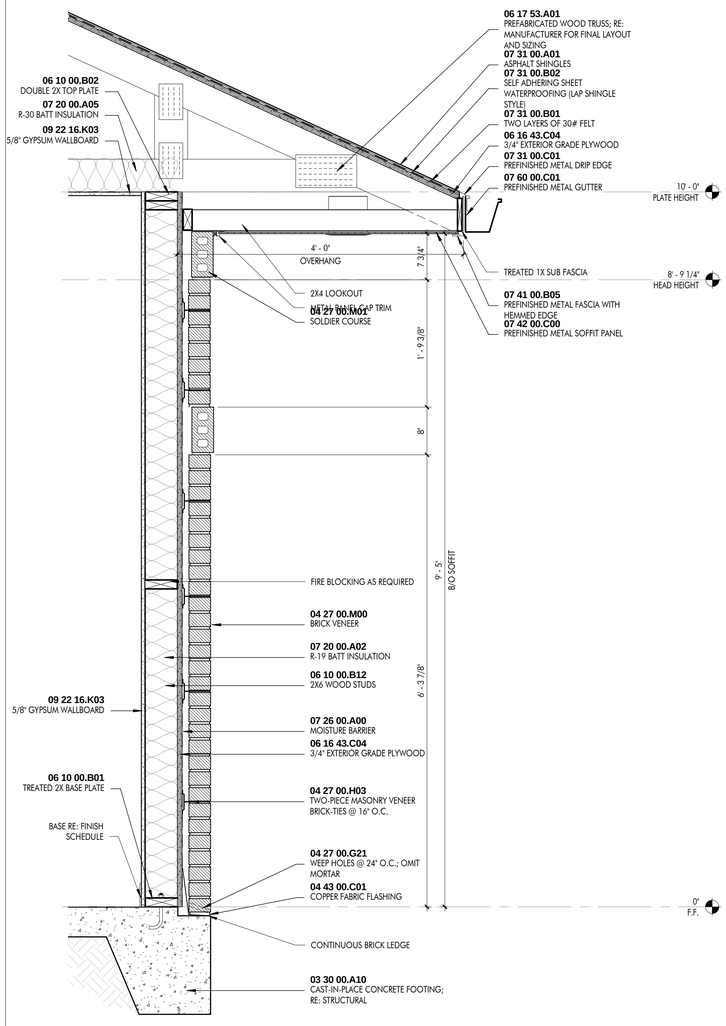
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FEBURARY 23, 2017

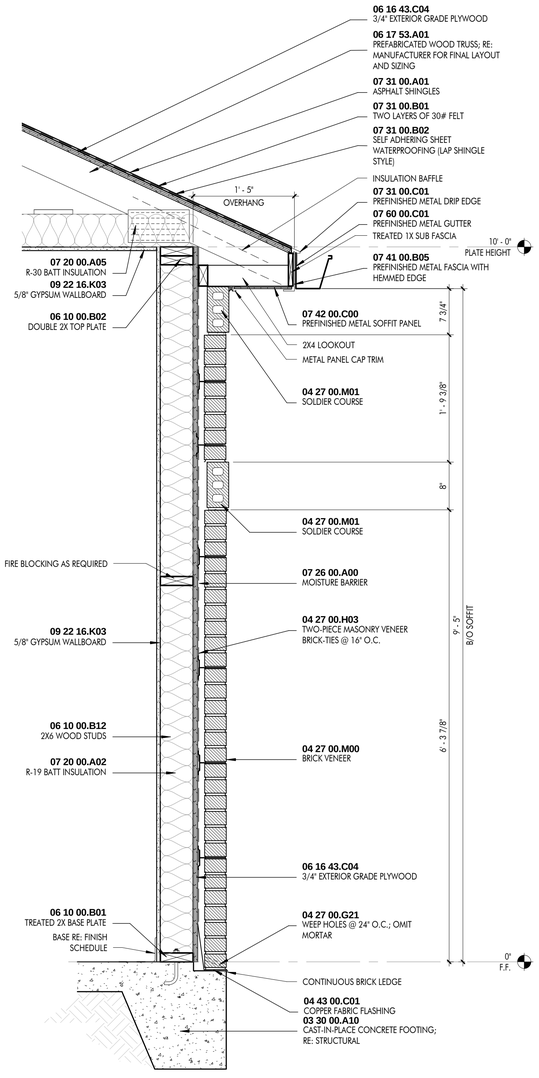


1 WALL SECTION
1" = 1'-0"



2 WALL SECTION
1" = 1'-0"

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STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO



3 WALL SECTION
1" = 1'-0"

FEBURARY 23, 2017

DOMAIN APAC
ARCHITECTURE
8316 kelwood avenue
baton rouge, la 70806
225.216.3770 ph

- JOINT VENTURE -

greenleaf architects
215 st. ann drive #5
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985.778.2080 ph

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mep engineer:
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4609 FAIRFIELD STREET
METAIRIE, LA 70006
504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
638 VILLAGE LANE NORTH
MANDEVILLE, LA 70471
985.727.9377

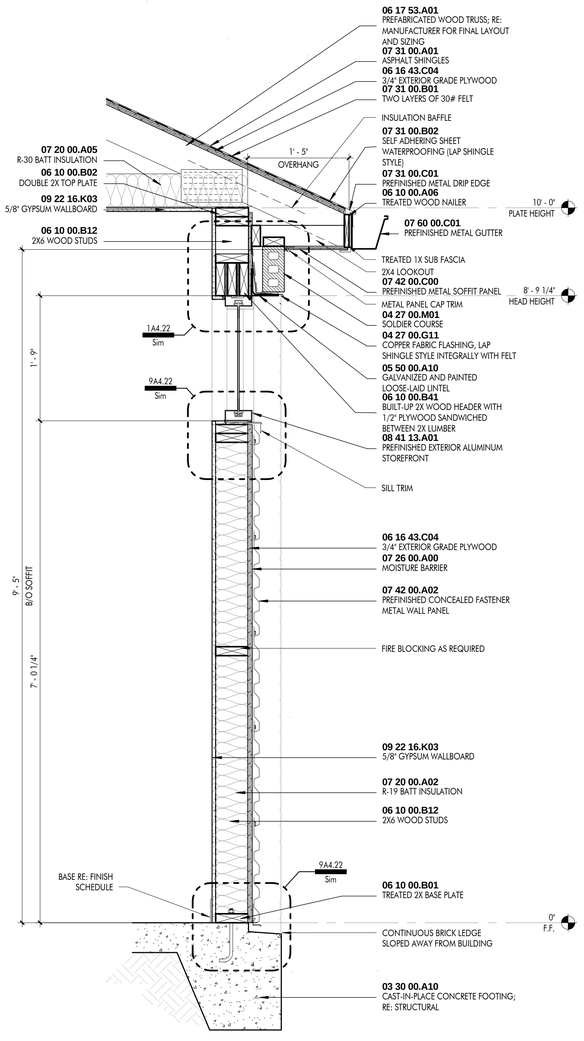
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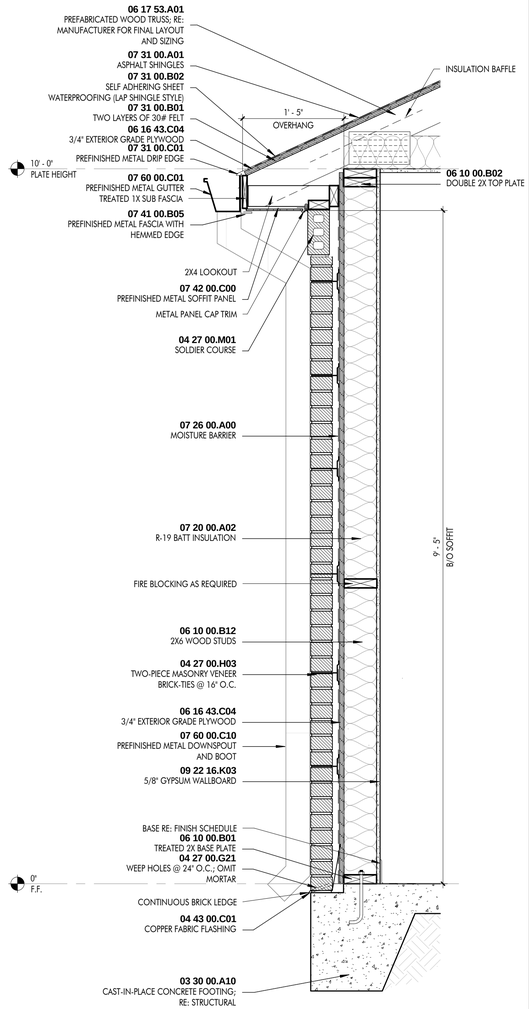
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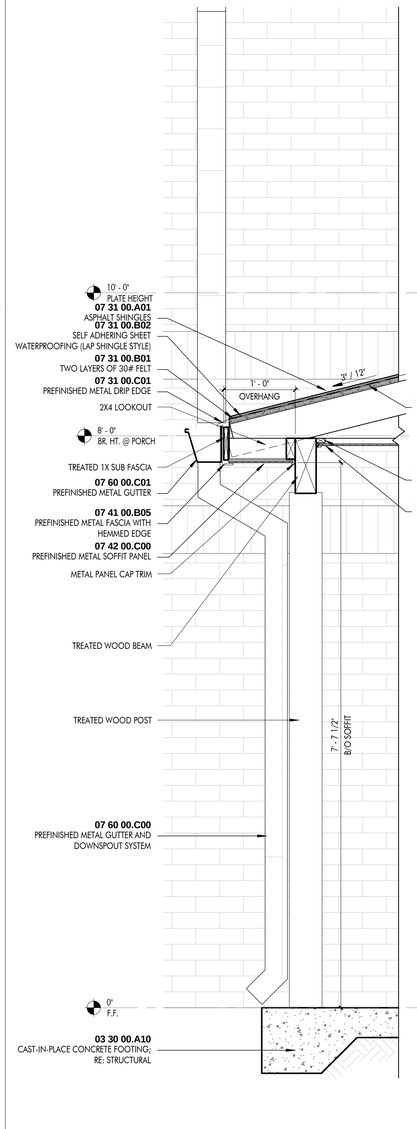
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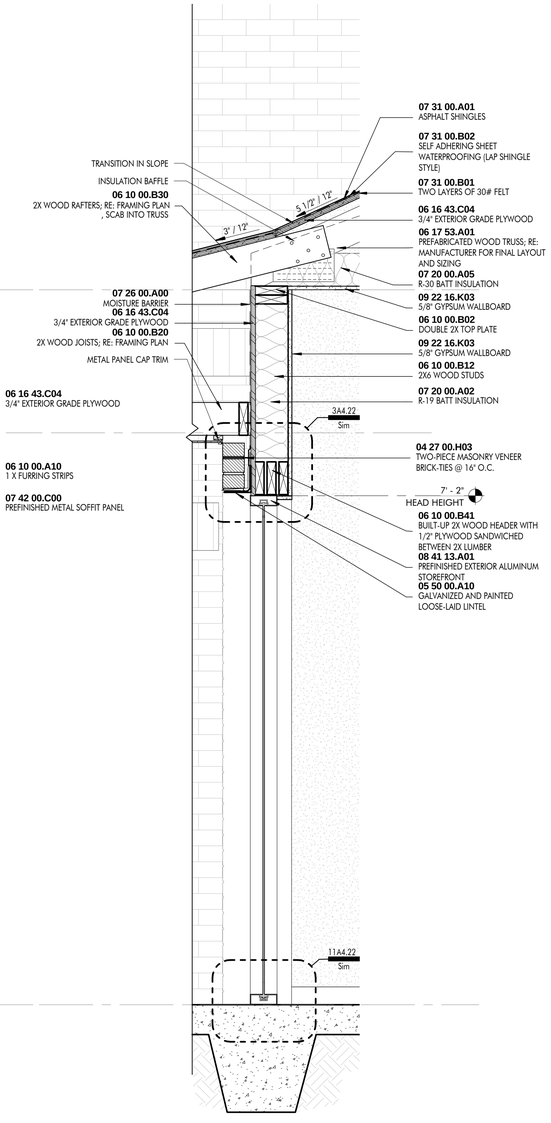


1 WALL SECTION
1" = 1'-0"



2 WALL SECTION
1" = 1'-0"





3 WALL SECTION
1" = 1'-0"

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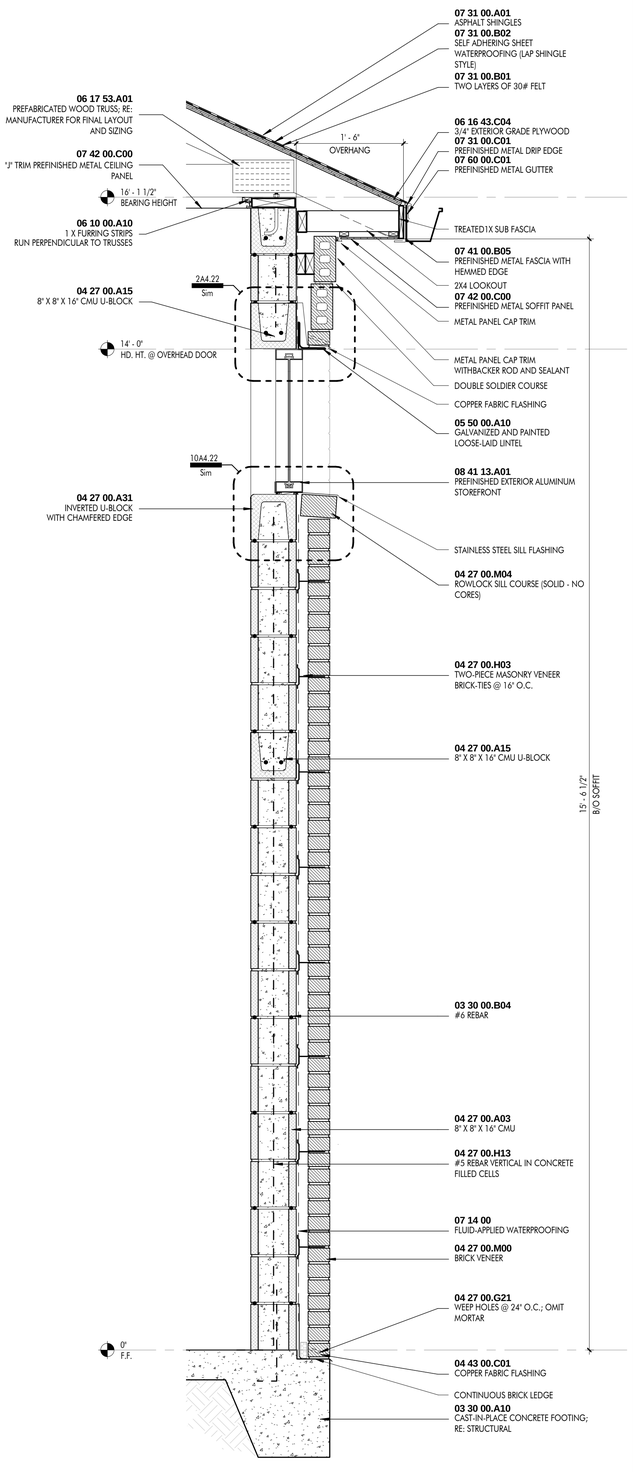
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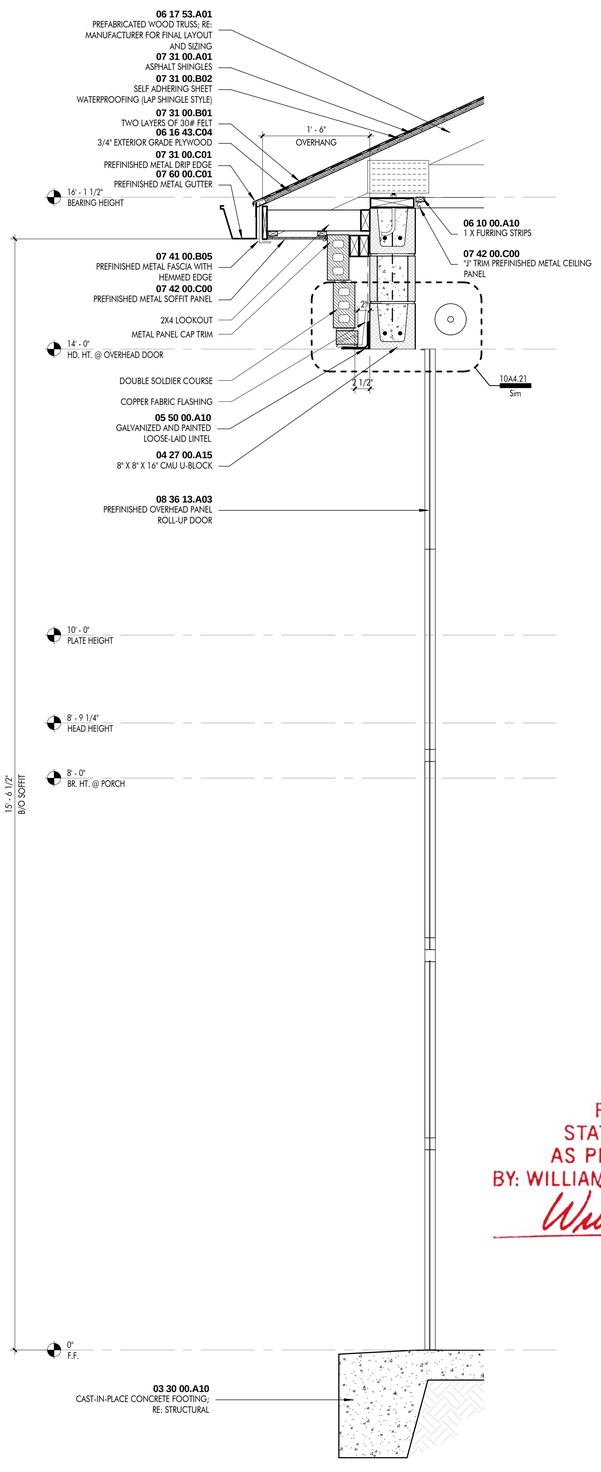
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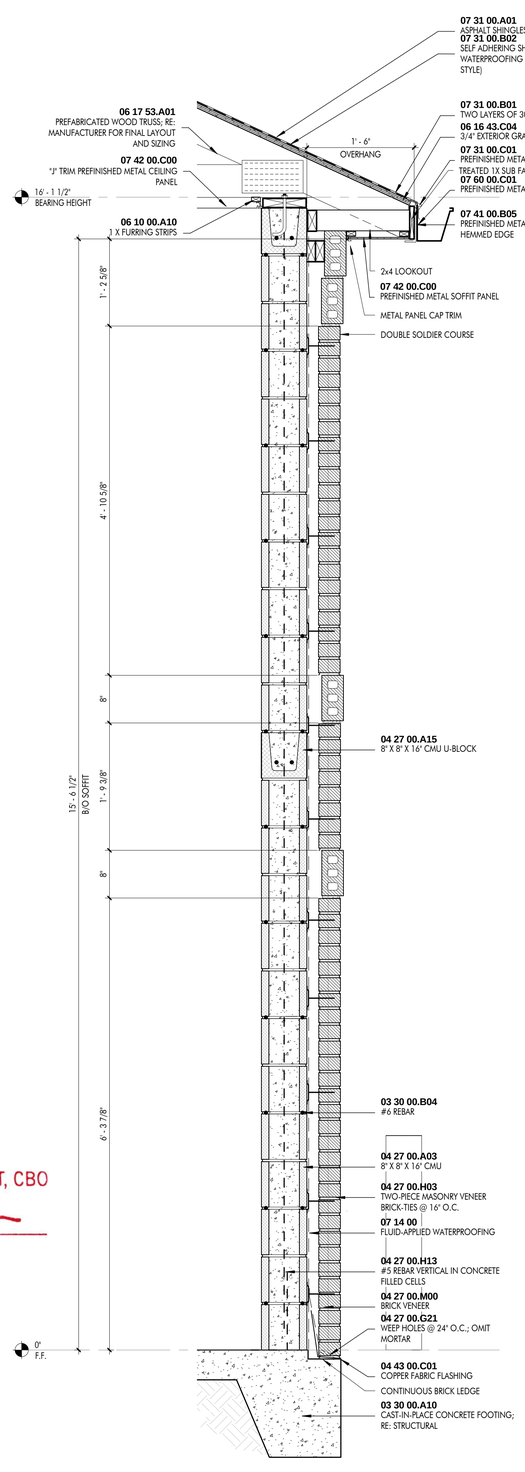


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1" = 1'-0"



2 WALL SECTION
1" = 1'-0"

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3 WALL SECTION
1" = 1'-0"

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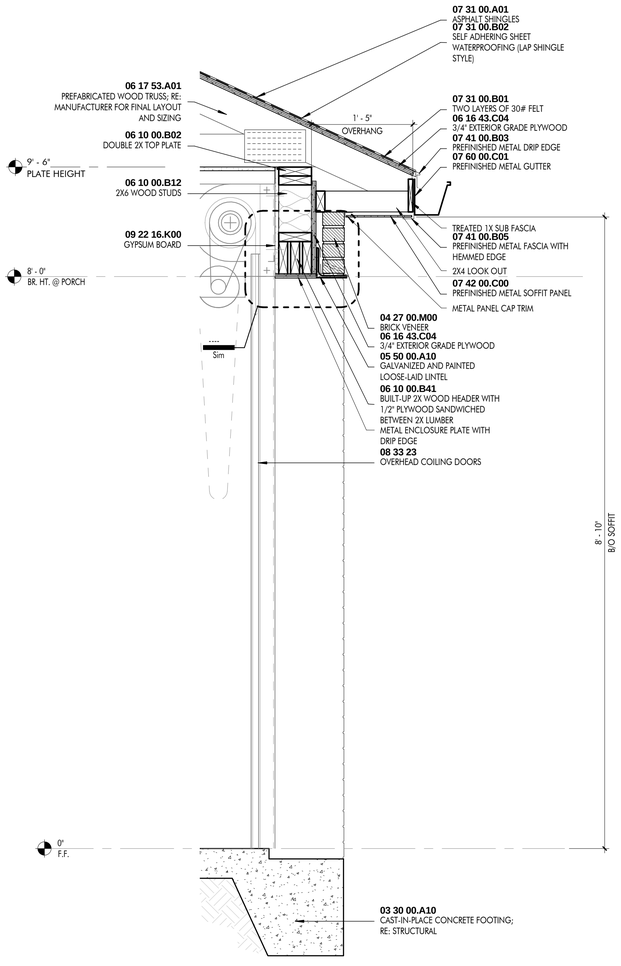
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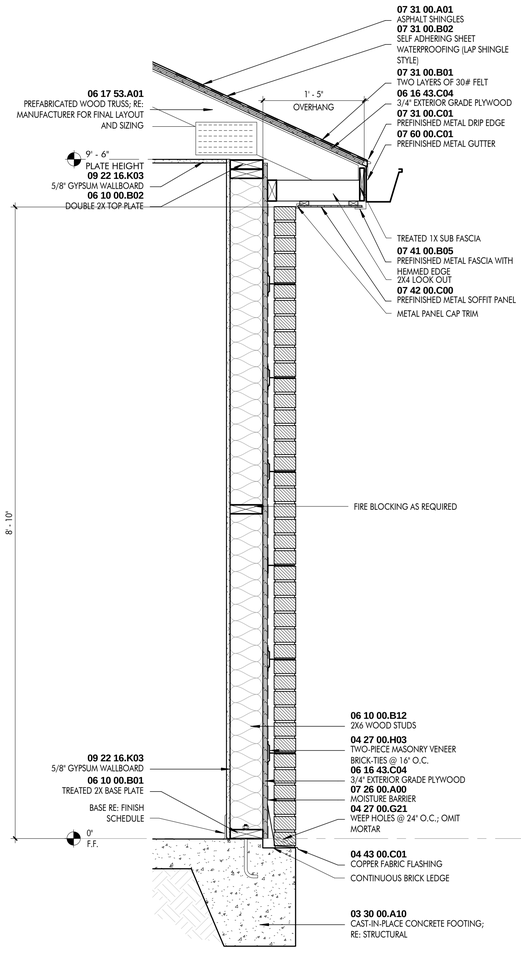
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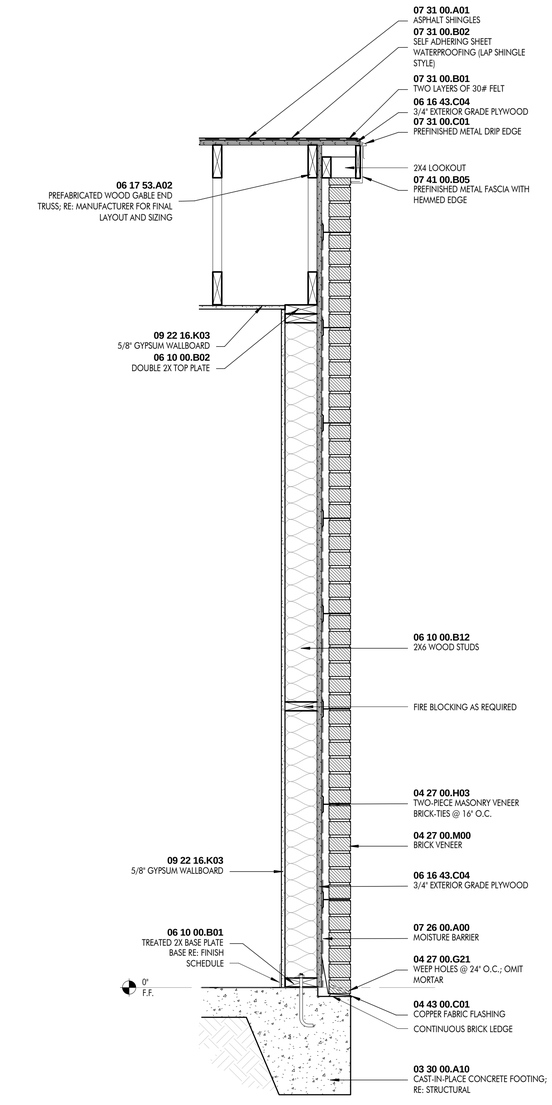


1 WALL SECTION
1" = 1'-0"



2 WALL SECTION
1" = 1'-0"

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3 WALL SECTION
1" = 1'-0"

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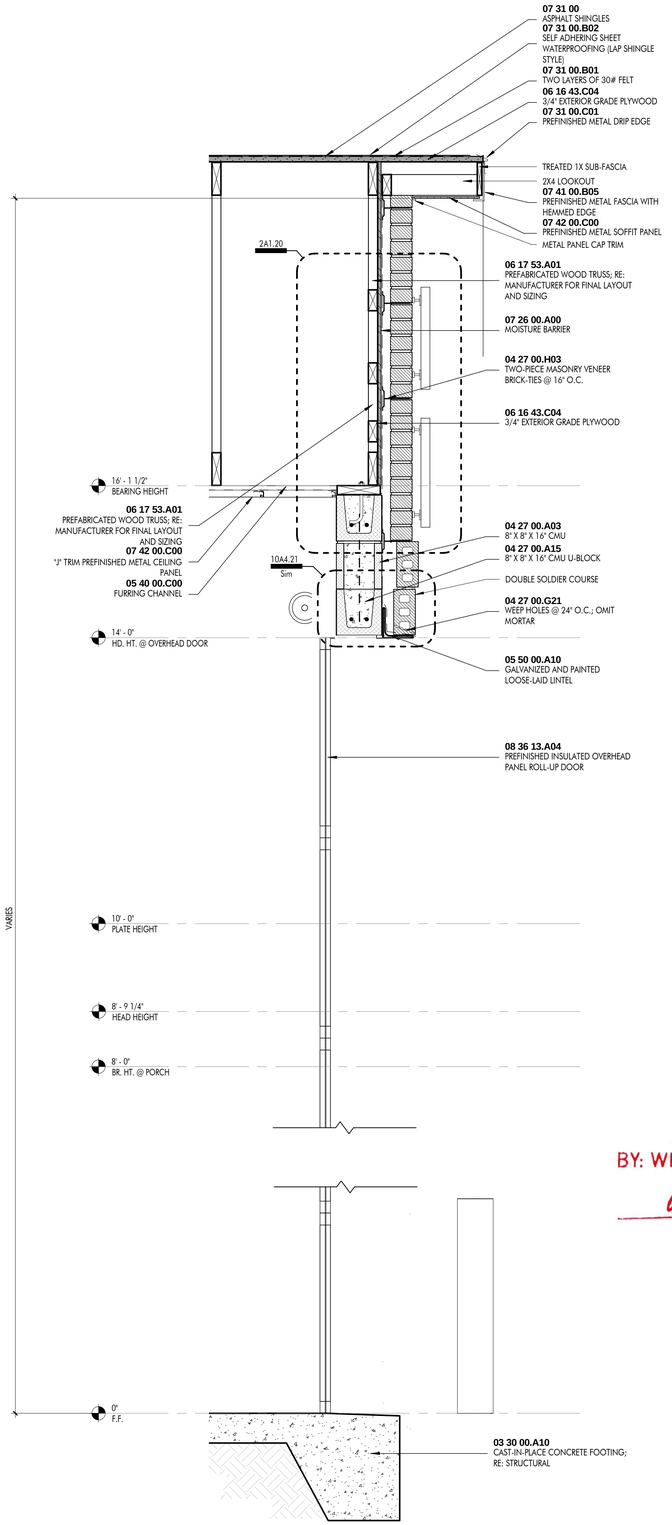
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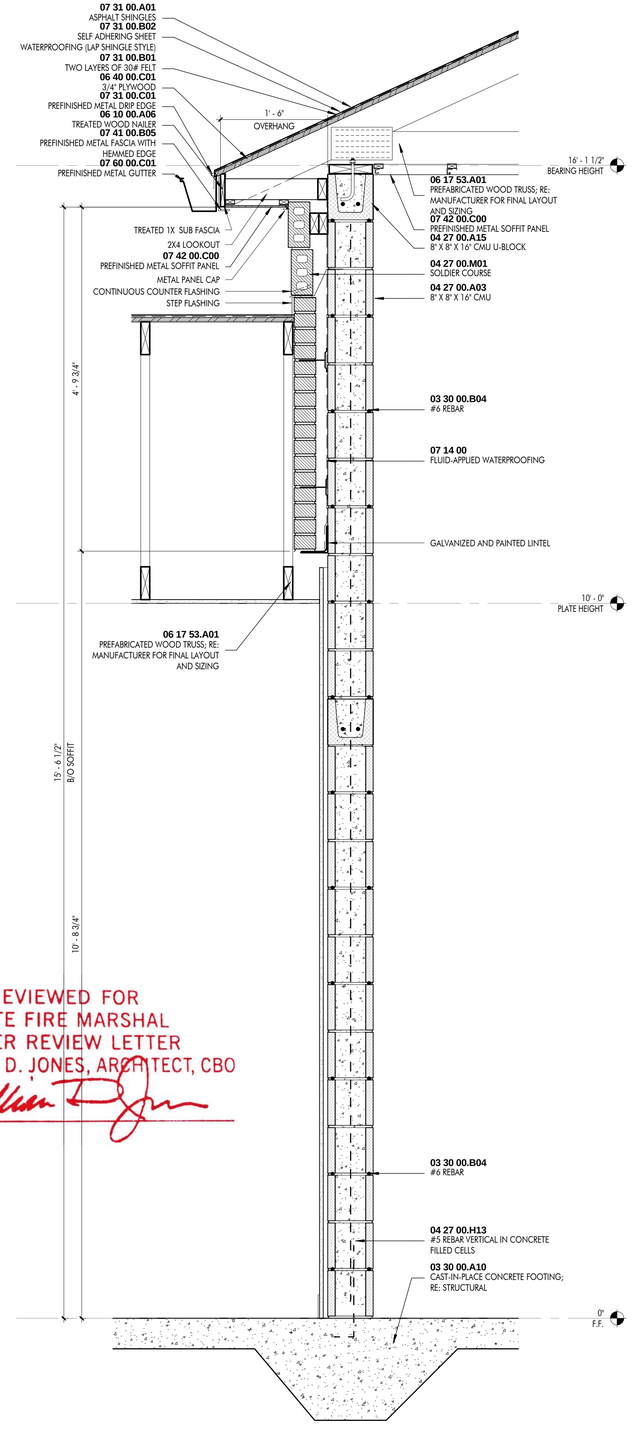
PROJ. #: C16-0058

date
FEBURARY 23, 2017

sheet
A8.23



1 WALL SECTION
1" = 1'-0"



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2 WALL SECTION
1" = 1'-0"

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PROJ. #: C16-0058

date
FEBURARY 23, 2017

sheet
A8.24



FINISH SCHEDULE - By Room

ROOM NUMBER	ROOM NAME	FINISH				CEILING HEIGHT	COMMENTS
		FLOOR	BASE	WALL	CEILING		
100	CORRIDOR	LVT-1	RB-1	PT-1	CLG-1	10' - 0"	
101	DAY ROOM	LVT-1	RB-1	PT-1	CLG-1	10' - 0"	
102	DINING	LVT-1	RB-1	PT-1	CLG-1	10' - 0"	
103	KITCHEN	LVT-1	RB-1	PT-1	CLG-1	10' - 0"	
104	OFFICE	LVT-1	RB-1	PT-1	CLG-1	10' - 0"	
105	TLT	CT-1	TB-1	PT-1	CLG-1	10' - 0"	4' TILE (TL-1) WAINSCOT ON ALL PLUMBING WALLS (PT-1) ABOVE
106	VES.	LVT-1	RB-1	PT-3	CLG-1	10' - 0"	
107	OFFICE	LVT-1	RB-1	PT-1	CLG-1	10' - 0"	
108	BUNK ROOM	LVT-1	RB-1	PT-2	CLG-1	10' - 0"	
109	LAVS	CT-1	TB-1	PT-1	CLG-1	10' - 0"	4' TILE (TL-1) WAINSCOT ON ALL PLUMBING WALLS (PT-1) ABOVE
110	TOILETS	CT-1	TB-1	PT-1	CLG-1	10' - 0"	4' TILE (TL-1) WAINSCOT ON ALL PLUMBING WALLS (PT-1) ABOVE
111	SHWR.	CT-1	TB-1	PT-1	CLG-1	10' - 0"	4' TILE (TL-1) WAINSCOT ON ALL PLUMBING WALLS (PT-1) ABOVE
112	LINEN	CT-1	RB-1	PT-1	CLG-1	10' - 0"	
113	I.T.	LVT-1	RB-1	PT-1	CLG-1	10' - 0"	
114	ENGINE BAY	CON-1	-	-	MTL-1	16' - 0"	
115	UTILITY / STO	CON-1	RB-1	PT-1	CLG-1	10' - 0"	
116	STORAGE	CON-1	RB-1	PT-1	CLG-1	10' - 0"	
117	ELECT / STO	CON-1	RB-1	PT-1	CLG-1	10' - 0"	
118	TLT	CON-1	TB-1	PT-1	CLG-1	10' - 0"	4' TILE (TL-1) WAINSCOT ON ALL PLUMBING WALLS (PT-1) ABOVE
119	SPRNK	CON-1	RB-1	PT-1	CLG-1	10' - 0"	
120	PORCH						

FINISH TYPES

NOTE: REFER TO FINISH LEGEND & SCHEDULE FOR FURTHER INFORMATION

CT-1	CERAMIC TILE
CON-1	SEALED CONCRETE WITH BROOM FINISH
VCT-1	VINYL COMPOSITION TILE

FINISH SCHEDULE LEGEND

FLOORING

LUXURY VINYL TILE:

MANNINGTON NATURES PATH RESILIENT LVT

(LVT-1) MANNINGTON NATURES PATH RESILIENT LVT, WINDSOR OAK CHESTNUT

PORCELAIN TILE:

ATLAS CONCORDE PORCELAIN TILE

(TL-1) PORCELAIN: ATLAS CONCORDE FRAY – COLOR: SMOKE, 12X24 FLOOR TILE (50% RUNNING BOND INSTALL)

FLOOR BASE

RUBBER BASE

ROPPE RUBBER COVE BASE OR APPROVED EQUAL

(RB-1) 4" RUBBER COVE BASE, COLOR: CHARCOAL. PROVIDE SEALANT AT JOINT BETWEEN FLOOR AND BASE, BASE AND WALL SURFACE.

TILE BASE

ATLAS CONCORDE PORCELAIN TILE

(TB-1) PORCELAIN: ATLAS CONCORDE FRAY – COLOR: PEARL, 12X24 TILE 6" X 12 COVE NOSE

WALL

INTERIOR PAINT ** ALL WALLS TO BE PT-1 UNLESS NOTED OTHERWISE

BENJAMIN MOORE;

(PT-1) BENJAMIN MOORE LIGHT PEWTER (1464) EGGSHELL

(PT-2) BENJAMIN MOORE SILVER SPRING (2120-50) EGGSHELL

(PT-3) BENJAMIN MOORE SPANISH RED (1301) EGGSHELL

PORCELAIN TILE:

ATLAS CONCORDE PORCELAIN TILE

(TL-2) PORCELAIN: ATLAS CONCORDE FRAY – COLOR: PEARL, 12X24 FLOOR TILE (50% RUNNING BOND INSTALL) SCHLUTER QUADEC TRIM AT TOP

CEILING

DRYWALL

PAINTED DRYWALL

(CLG-1) PAINTED DRYWALL

METAL PANEL

BERRIDGE "L" PANEL OR APPROVED EQUAL

(MTL-1) BERRIDGE NO GROOVE "L" PANEL OR APPROVED EQUAL

COUNTERTOPS

PLASTIC LAMINATE:

STANDARD DESIGNS OR APPROVED EQUAL

(PL-2) LUNA NIGHT 1854K-35 HD LAMINATE

GRANITE:

STANDARD DESIGNS OR APPROVED EQUAL

(GC-1) BASIC TYPE OR APPROVED EQUAL

MILLWORK

PLASTIC LAMINATE:

WILSONART - HIGH PRESSURE LAMINATE, STANDARD DESIGNS OR APPROVED EQUAL

(PL-1) WILSONART HIGH IINE 7970K-18 PREMIUM LAMINATE

(PL-3) PEWTER MESH 4878-38 STANDARD LAMINATE

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1 1ST FLOOR - FINISH PLAN

3/16" = 1'-0"

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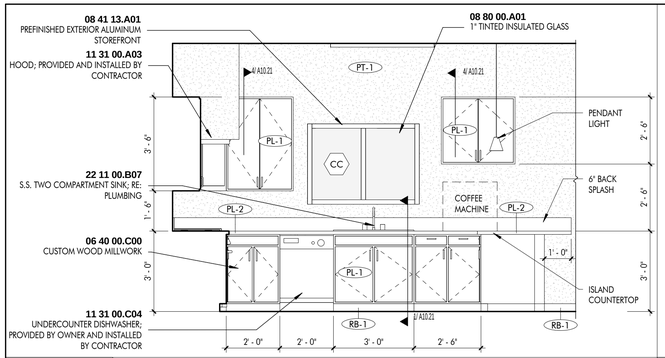
revisions

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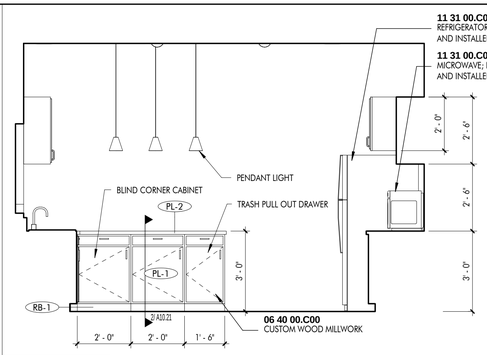
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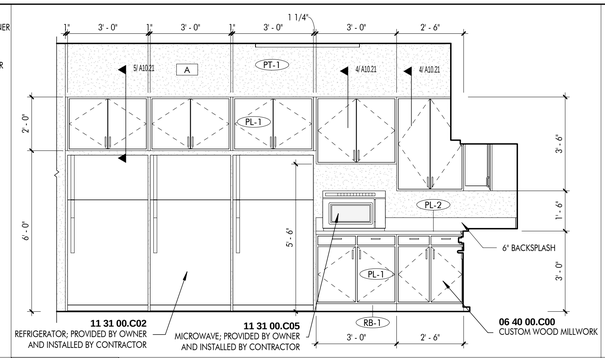
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A9.20



1 ELEVATION - KITCHEN SOUTH
3/8" = 1'-0"



2 ELEVATION - KITCHEN WEST
3/8" = 1'-0"

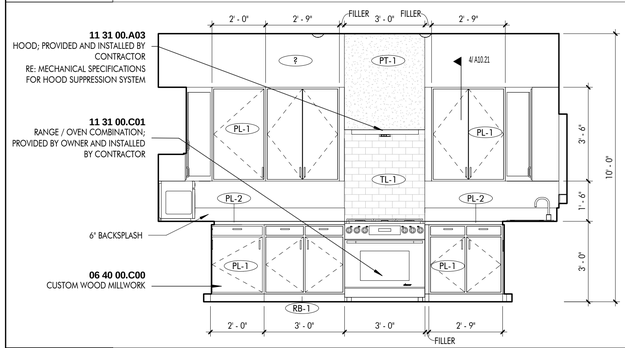


3 ELEVATION - KITCHEN NORTH
3/8" = 1'-0"

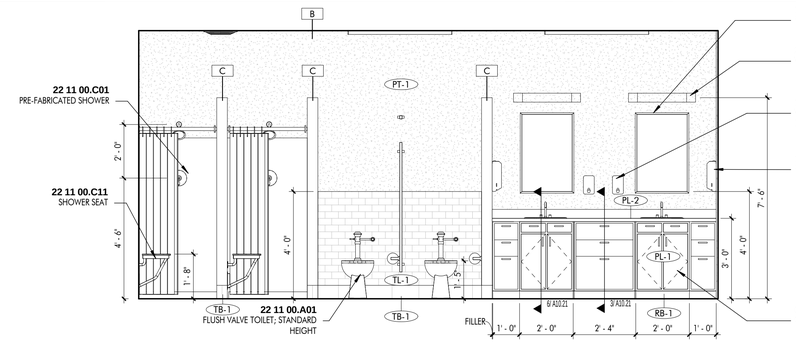
LEGEND

PL-1	PLASTIC LAMINATE
RB-1	RUBBER BASE
TB-1	TILE BASE
PT-1	PAINT
GC-1	GRANITE COUNTERTOP

NOTE: REFER TO FINISH PLAN FOR ALL FINISHES.

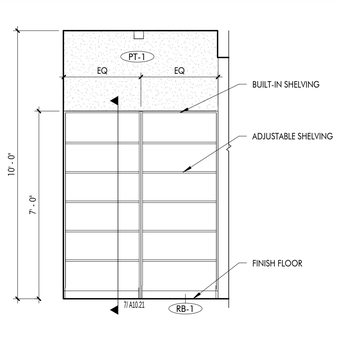


4 ELEVATION - KITCHEN EAST
3/8" = 1'-0"

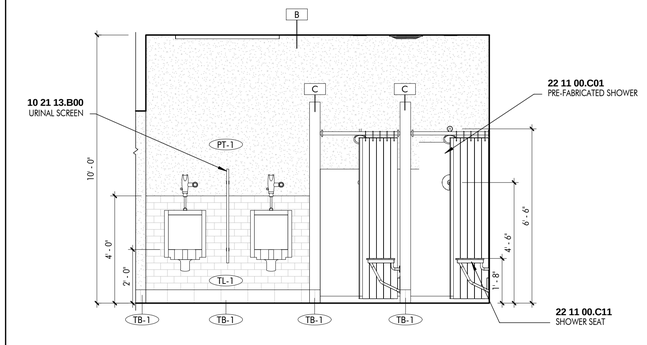


5 ELEVATION - SHOWERS EAST
3/8" = 1'-0"

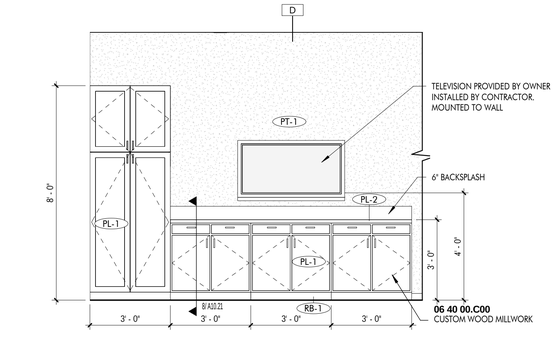
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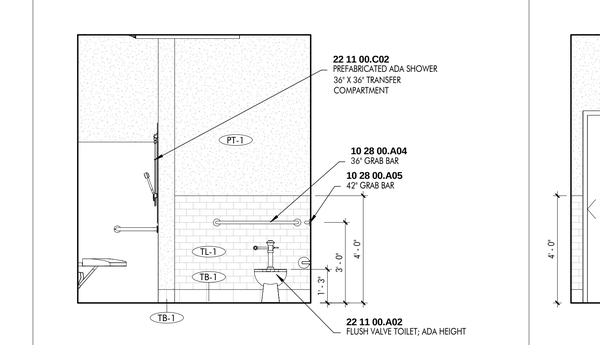
6 ELEVATION - LINEN NORTH
3/8" = 1'-0"



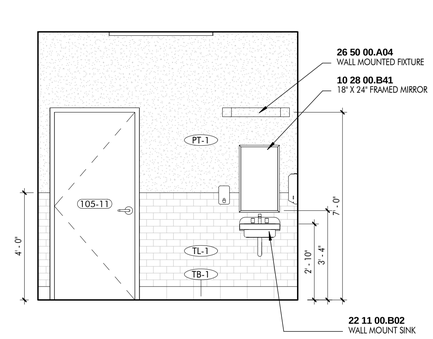
7 ELEVATION - SHOWERS WEST
3/8" = 1'-0"



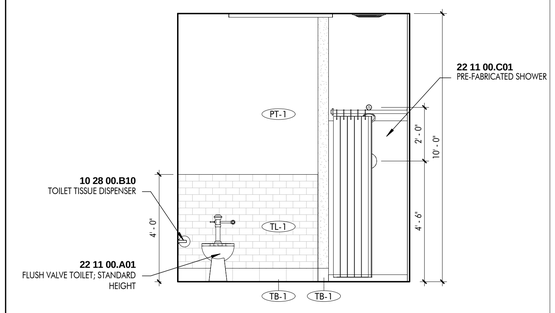
8 ELEVATION - DAY ROOM WEST
3/8" = 1'-0"



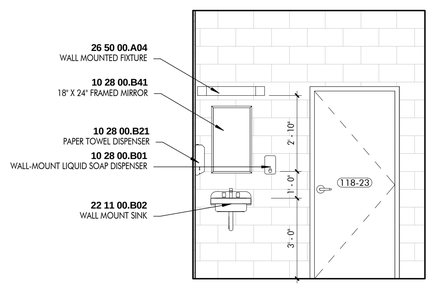
9 ELEVATION - TOILET 105 EAST
3/8" = 1'-0"



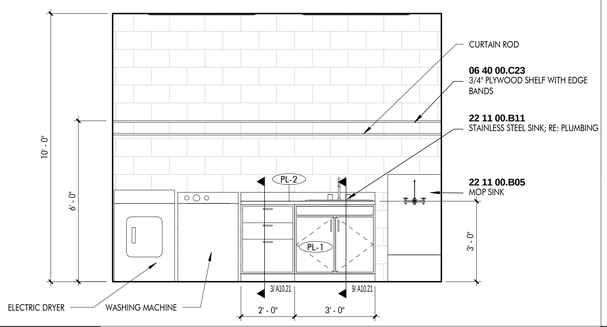
10 ELEVATION - TOILET 105 WEST
3/8" = 1'-0"



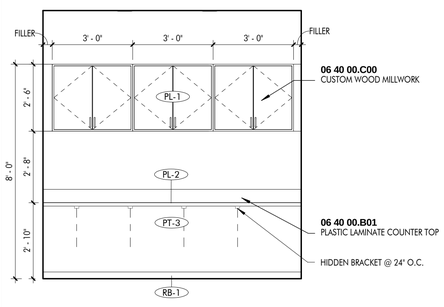
11 ELEVATION - TOILET 120 WEST
3/8" = 1'-0"



12 ELEVATION - TOILET 120 EAST
3/8" = 1'-0"



13 ELEVATION - UTILITY SOUTH
3/8" = 1'-0"



14 ELEVATION - VESTIBULE DESK
3/8" = 1'-0"

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Scales stated hereon are valid on the original drawings only. Contractor shall carefully review all dimensions and conditions shown and report to the architect any errors, inconsistencies, or omissions discovered.

These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

St. Tammany Fire Protection District No. 1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
CRUMB ENGINEERING LLC
4609 FAIRFIELD STREET
METAIRIE, LA 70006
504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
638 VILLAGE LANE NORTH
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revisions

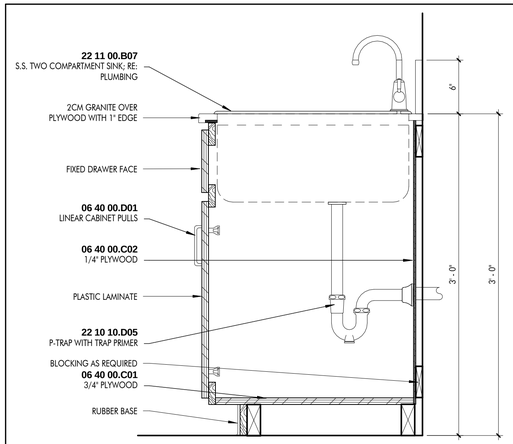
No.	Description	Date

PROJ. #: C16-0058

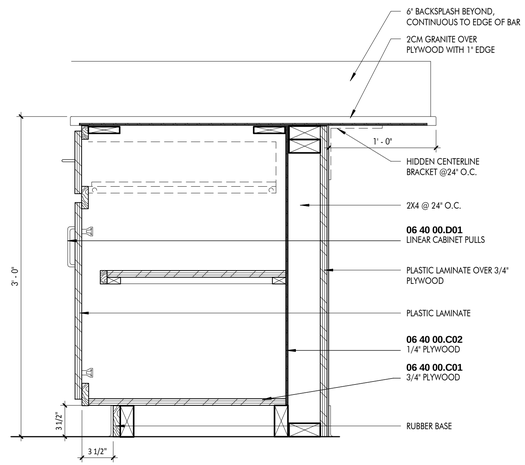
date
FEBURARY 23, 2017

sheet
A10.20

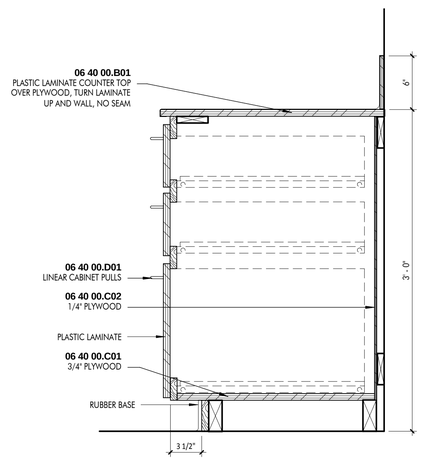
FEBURARY 23, 2017



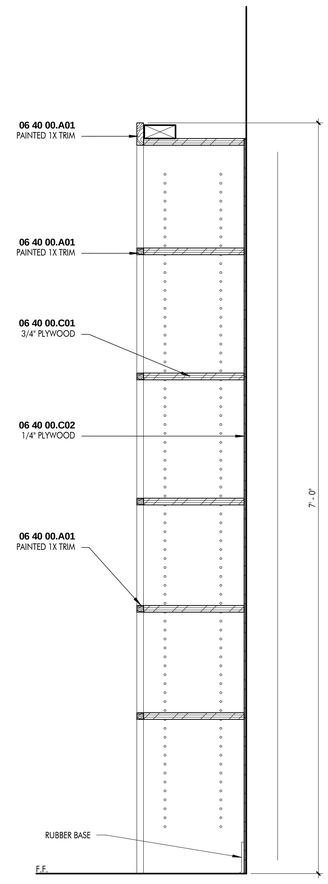
1 SECTION - KITCHEN SINK TYP.
1 1/2" = 1'-0"



2 SECTION - KITCHEN BAR CABINET
1 1/2" = 1'-0"



3 SECTION - LAV @ DRAWERS
1 1/2" = 1'-0"

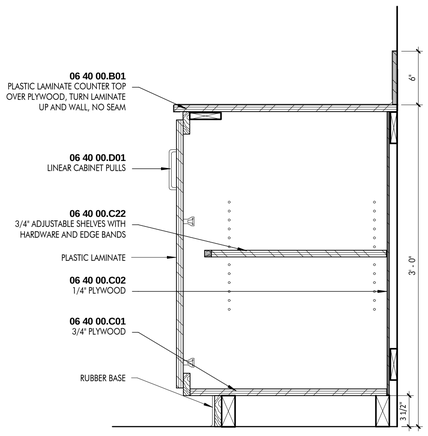


4 SECTION - OVERALL CABINET TYP.
1 1/2" = 1'-0"

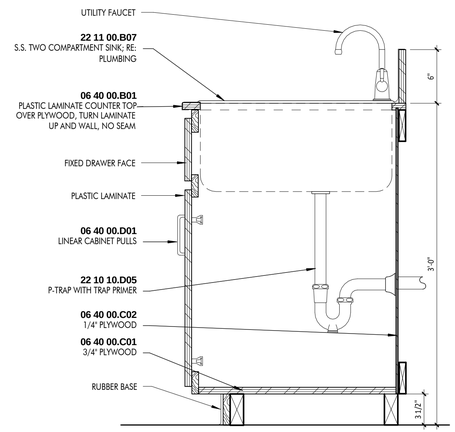
5 SECTION - OVER FRIDGE CABINET
1 1/2" = 1'-0"

6 SECTION - ADA BATHROOM SINK
1 1/2" = 1'-0"

7 SECTION - SHELVING MILLWORK
1 1/2" = 1'-0"



8 SECTION - UTILITY CABINET TYP.
1 1/2" = 1'-0"



9 SECTION - UTILITY SINK TYP.
1 1/2" = 1'-0"

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

FEBURARY 23, 2017

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sheet
A10.21

STRUCTURAL- GENERAL NOTES

A. GENERAL

1. THESE NOTES SUPPLEMENT THE SPECIFICATIONS, WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS.
2. DO NOT SCALE CONTRACT DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL DIMENSIONS AND FIT-UP OF THE STRUCTURE, INCLUDING VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE COMMENCING WORK OR FABRICATING MATERIALS.
4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.
5. CHECK ALL DIMENSIONS ON STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL DRAWINGS.
6. COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS AND VERIFY THE EXACT LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS, SLOPES, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS, BEFORE COMMENCING ANY WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. .
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, PLACEMENT, MAINTENANCE, ETC. OF ANY AND ALL SHORING, BRACING, TIE BACKS, ETC. NEEDED TO SUPPORT ANY PART OF THE NEW OR EXISTING CONSTRUCTION DURING THE ENTIRE CONSTRUCTION PROCESS TO ENSURE THE SAFETY AND INTEGRITY OF THE STRUCTURE UNTIL THE NECESSARY PERMANENT ELEMENTS ARE IN PLACE.

B. GOVERNING BUILDING CODE AND REFERENCES:

1. INTERNATIONAL BUILDING CODE 2012.
   A. STRUCTURAL MEMBERS ARE DESIGNED USING LOAD COMBINATIONS IN ACCORDANCE WITH THE ADOPTED BUILDING CODE.
2. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10.

C. DESIGN CRITERIA AND LIVE LOADS

1. SEISMIC DESIGN DATA

A.	RISK CATEGORY	IV
B.	SEISMIC IMPORTANCE FACTOR, Ie	1.5
C.	MAPPED SPECTRAL RESPONSE ACCELERATIONS:	
	I. SHORT PERIOD, Ss	0.101g
	II. ONE SECOND PERIOD, S1.	0.055g
D.	SITE CLASS	D
E.	SPECTRAL RESPONSE COEFFICIENTS:	
	I. SHORT PERIOD, SDS	0.108g
	II. ONE SECOND PERIOD, SD1	0.089g
F.	SEISMIC DESIGN CATEGORY	
G.	BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)	
H.	DESIGN BASE SHEAR	
I.	SEISMIC RESPONSE COEFFICIENT(S), Cs	
J.	RESPONSE MODIFICATION FACTOR(S), R	
K.	ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE

2. WIND DESIGN DATA

A.	ULTIMATE DESIGN WIND SPEED , Vult (3 SEC GUST)	153 MPH
B.	NOMINAL DESIGN WIND SPEED ,Vasd	119 MPH
C.	RISK CATEGORY	IV
D.	WIND EXPOSURE	B
E.	INTERNAL PRESSURE COEFFICIENT	+/- 0.18
F.	COMPONENTS AND CLADDING	SEE TABLE ON THIS SHEET

3. LIVE LOADS

A.	OFFICES	50 PSF
B.	HALLWAYS	100 PSF
C.	ROOF	20 PSF

D. SUBMITTALS

1. DEFERRED SUBMITTALS: THE FOLLOWING ITEMS ARE ENGINEERED BY OTHERS. ENGINEERING AND DOCUMENTATION OF THESE ITEMS ARE TO BE PROVIDED BY OTHERS FOR REVIEW BY THE STRUCTURAL ENGINEER. AFTER REVIEW, THESE DEFERRED SUBMITTAL ITEMS WILL BE SUBMITTED TO THE BUILDING OFFICIAL.

* MISCELLANEOUS HANGERS, METAL FRAMES, LADDERS, RIGGING, HANGING WALLS, METAL RAILINGS, GLAZING FRAMES, CLADDING SUCH AS STONE, PRECAST, ALUMINUM, METAL PANELS, CABLE BARRIER SYSTEMS, ETC. OR ANY OTHER MISCELLANEOUS PRODUCT REQUIRED BY THE ARCHITECTURAL OR MECHANICAL CONSTRUCTION DOCUMENTS.

* WOOD TRUSSES.

* OPEN WEB WOOD JOISTS

2. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PROPER SUBMISSION OF THESE DEFERRED SUBMITTALS WHICH SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF LOUISIANA. IT IS THE RESPONSIBILITY TO ASSURE THAT THE SPECIALTY ENGINEERED SHOP DRAWINGS AS SUBMITTED IN A TIMELY MANNER SO AS TO ALLOW REVIEWS AND RESUBMISSION AS REQUIRED. ALL SPECIALTY ENGINEERED PRODUCTS SHALL BE DESIGNED FOR THE APPROPRIATE GRAVITY LOADS AND WIND LOADS INCLUDING UPLIFT AND LATERAL LOADS.
3. FURNISH ONE PRINT OF SHOP AND ERECTION DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMIT IN A TIMELY MANNER TO PERMIT 10 WORKING DAYS FOR REVIEW BY STRUCTURAL ENGINEER.
4. FURNISH TWO SETS OF CONCRETE, GROUT AND MORTAR MIX DESIGNS INCLUDING STRENGTH TEST DATA AND MANUFACTURER'S LITERATURE ON ADMIXTURES FOR REVIEW BY STRUCTURAL ENGINEER NO LATER THAN 2 WEEKS PRIOR TO ON-SITE USE OF THESE MATERIALS.
5. GENERAL AND SUB-CONTRACTOR NOTES:
   C. THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMITTALS PRIOR TO SUBMITTAL FOR REVIEW BY THE STRUCTURAL ENGINEER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
   D. THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS BACKGROUNDS FOR SHOP OR ERECTION DRAWINGS. DRAWINGS PREPARED IN THIS MANNER AND SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER WILL BE RETURNED REJECTED AND CONSIDERED AS NOT BEING IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.

E. FOUNDATIONS

1. THE SUBGRADE INFORMATION AND FOUNDATION DESIGN ARE BASED UPON A GEOTECHNICAL REPORT, NO. G16-077, PREPARED BY STRATUM ENGINEERING, LLC , DATED NOVEMBER 30, 2016. REFERENCE THIS REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE SOIL REPORT IS AVAILABLE AT THE ENGINEER'S OFFICE.
2. PREPARE SITE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. STRIP EXISTING GRADE OF ALL TOPSOIL, VEGETATION, AND OTHER UNDESIRABLE MATERIALS.
3. ALL ELEVATIONS REFER TO FIRST FLOOR = 100'-0" = EL. 18.5.N.A.V.D BASED ON THE TOPOGRAPHIC SURVEY DRAWING BY NOBLES & ASSOCIATES, L.L.C DATED AUGUST 30, 2016.
3. ALL SLABS, BEAMS, AND FOOTINGS NOT PILE-SUPPORTED SHALL BE SUPPORTED ON EXISTING UNDISTURBED SOIL OR ON NON-EXPANSIVE TYPE FILL COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. DESIGN SOIL PRESSURE = 2000 LBS. PER SQ. FT. FOR SHALLOW STRIP FOOTINGS AND 2500 LBS. PER SQ. FT. FOR SQUARE FOOTINGS, AS ESTABLISHED BY THE GEOTECHNICAL INVESTIGATION.

F. CAST-IN-PLACE CONCRETE (NON-PRESTRESSED)

1. STRUCTURAL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-08.
2. WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-LATEST EDITION, "SPECIFICATIONS FOR STRUCTURAL CONCRETE", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
3. TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF ACI 117-LATEST EDITION, "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
4. WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305.1-LATEST EDITION, "SPECIFICATIONS FOR HOT WEATHER CONCRETING", PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
5. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, UNIT WEIGHT APPROXIMATELY 145 PCF, UNLESS OTHERWISE NOTED.CLEARLY IDENTIFY INTENDED USE FOR EACH MIX DESIGN SUBMITTED FOR APPROVAL.
6. CONCRETE SHALL CONFORM TO THE FOLLOWING:

	W/C RATIO
A. FOUNDATION 4,000 PSI @ 28 DAYS (NORMAL WEIGHT)	0.45

7. ALL CONCRETE IN CONTACT WITH SOILS SHALL USE TYPE I-II CEMENT.
8. MIXING WATER SHALL BE POTABLE. THE USE OF WASH WATER AS A PORTION OF THE MIXING WATER SHALL NOT BE PERMITTED.
9. CLEAN ALL CONSTRUCTION JOINTS THOROUGHLY AND PURPOSELY ROUGHEN THE SURFACE TO 1/4" AMPLITUDE USING A ROTARY HAMMER PRIOR TO PLACING ADJACENT CONCRETE.
10. CAREFULLY COORDINATE THE PLACEMENT OF ALL CAST-IN-PLACE EMBEDS AND ANCHOR RODS. ANCHOR RODS SHALL BE SET WITH A TEMPLATE. ALL EMBED ITEMS SHALL BE SECURELY ATTACHED TO FORM WORK OR REINFORCING.
11. PLACE SURE VOID FORMS OR APPROVED EQUAL, UNDER GRADE BEAMS AND SLABS AS SHOWN ON THE FOUNDATION DETAILS.

G. REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615, GRADE 60.
2. CONCRETE CLEAR COVER OVER REINFORCING AND PLACING TOLERANCES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-LATEST EDITION.
3. PROVIDE CLASS "B" REINFORCING SPLICES. PROVIDE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE. STAGGER SPLICES UNLESS SPECIFICALLY NOTED.
4. WELDED WIRE FABRIC (WWF) SHALL BE IN ACCORDANCE WITH ASTM A-185. WIRE SHALL CONFORM TO ASTM A82. LAP ALL FABRIC ONE WIRE SPACING PLUS 2 INCHES.
5. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66, AND "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," ACI 318, LATEST EDITIONS. PROVIDE DETAILS INDICATING REINFORCING CONTINUITY AT CONSTRUCTION JOINTS.
6. REINFORCING BARS SHALL BE FREE OF ALL DELETERIOUS COATINGS WHEN CONCRETE IS PLACED AND THE LENGTH, SIZE, AND LOCATION SHALL BE AS SHOWN ON THE PROJECT PLANS.
7. WHERE REQUIRED, PROVIDE DOWELS MATCHING SIZE AND SPACING OF MAIN REINFORCEMENT.
8. PROVIDE A 90 DEGREE HOOK ON ALL TOP AND SIDE REINFORCING BARS IN ALL BEAMS AT DISCONTINUOUS ENDS.
9. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS AND DETAILS. REINFORCING SHALL BE CHAIRED WITH 3000 PSI CONCRETE BRICKETTES SPACED TO ADEQUATELY SUPPORT THE REINFORCING BUT NO GREATER THAN 3'-0" O.C. EACH WAY.
10. PROVIDE STIRRUPS WITH 2-#4 TOP SUPPORT BARS FOR LENGTH OF STIRRUP SPACING WHERE TOP BARS NOT OTHERWISE PROVIDED.
11. ALL WELDING TO REINFORCING WILL CONFORM TO THE AWS STRUCTURAL WELDING CODE-REINFORCING STEEL, D1.4-2005.
12. DO NOT RE-BEND ANY BARS.
13. INSTALL CORNER BARS IN THE OUTSIDE FACE OF EDGE BEAMS AT EVERY CORNER ONCE TOP AND BOTTOM. BAR SHALL BE THE SAME SIZE AS THE LARGEST BEAM BAR.
14. PROVIDE A 90 DEGREE HOOK ON ALL TOP REINFORCEMENT IN ALL BEAMS AT DISCONTINUOUS ENDS.

H. MASONRY

1. ALL FILLED VERTICAL CELLS OR CAVITIES IN MASONRY UNITS SHALL BE FILLED CONTINUOUSLY WITH COURSE GROUT IN ACCORDANCE WITH ACI 530-95 AND ASTM C476. NO VOIDS, HONEYCOMBS, OR GAPS WILL BE ALLOWED.
2. ALL MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 530.
3. ALL MASONRY WALLS SHALL BE SUPPORTED EITHER ALONG THE TOP AT EACH FLOOR LEVEL OR BY VERTICAL PILASTERS ALL AS SHOWN ON THE ARCHITECTURAL DRAWINGS OR AS APPROVED BY THE ARCHITECT.
4. ALL HORIZONTAL U-BLOCK BOND BEAMS OR LINTELS MAY BE FILLED WITH EITHER GROUT OR PEA GRAVEL CONCRETE.
5. PLACE CONTINUOUS "DUR-O-WALL" JOINT REINFORCING IN EVERY OTHER HORIZONTAL JOINT (16" O.C. VERTICALLY) IN ALL CMU WALLS.

I. STEEL

1. ALL STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
2. UNLESS NOTED OTHERWISE ALL W STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992 OR ASTM A572 GRADE 50. C, S, RODS, PLATES, AND ANGLES SHALL BE IN ACCORDANCE WITH ASTM A36.
3. PIPE SECTIONS SHALL BE ASTM A53 TYPE S, GRADE B (35 KSI YIELD).
5. SPLICES IN STRUCTURAL STEEL NOT SHOWN ON THE STRUCTURAL DRAWINGS WILL NOT BE ACCEPTED WITHOUT SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER.
6. UNLESS NOTED OTHERWISE ALL ANCHOR BOLTS SHALL BE 3/4" DIAMETER ASTM A307. ALL ANCHOR BOLTS SHALL BE HOOKED OR HEADED AT THE UNTHREADED END.
7. UNLESS NOTED OTHERWISE EVERY WELD SHALL DEVELOP THE FULL STRENGTH OF THE LESSER OF THE MEMBERS IT JOINS. ALL BUTT, GROOVE, OR BEVEL WELDS SHALL BE COMPLETE, FULL PENETRATION.
8. WHERE POSSIBLE, ALL BOLT HOLES IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED IN THE SHOP. ANY HOLES REQUIRED TO BE MADE AT THE PROJECT SITE SHALL BE MECHANICALLY DRILLED OR PUNCHED. NO BURNING OF HOLES SHALL BE ALLOWED.
9. UNLESS SHOWN OTHERWISE ALL CAP AND BASE PLATES SHALL BE WELDED TO THE COLUMNS CONTINUOUSLY ALL AROUND WITH A 1/4" FILLET WELD.

J. WOOD

1. ALL WOOD FRAMING WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL RESIDENTIAL CODE.
2. FRAMING LUMBER SHALL BE SOUTHERN PINE GRADE MARKED AND KILN DRIED, NO. 2. ALL MEMBER PIECE ENDS, JOINTS, OR SPLICES SHALL BE OVER SUPPORTS UNLESS NOTED OTHERWISE.
3. UNLESS NOTED OTHERWISE MULTIPLE PIECES OF LUMBER OR MANUFACTURED WOOD PRODUCTS USED TO FORM BEAM OR HEADER MEMBERS SHALL BE ATTACHED TOGETHER WITH 4 ROWS OF 16d NAILS SPACED AT 16" FOR PIECES UP TO 12" DEEP, 5 ROWS OF 16d NAILS AT 16" FOR PIECES 14" AND 16" DEEP AND 6 ROWS OF 16d NAILS SPACED AT 16" FOR PIECES 18" DEEP.
4. ALL OPENINGS IN EXTERIOR WOOD-FRAMED WALLS SHALL HAVE THE FOLLOWING MINIMUM NUMBER OF STUDS AT EACH JAMB:

   OPENINGS LESS THAN 4'-0" ..... 2 STUDS
   OPENINGS 4'-0" TO 6'-0" ..... 3 STUDS
   OPENINGS 6'-0" TO 10'-0" ..... 4 STUDS
   OPENINGS LARGER THAN 10'-0" ... SEE PLAN OR CONSULT STRUCT. ENG.

   ALL MULTIPLE STUDS SHALL BE CONNECTED TOGETHER WITH TWO ROWS OF 12 d NAILS SPACED AT 8 INCHES ON CENTER.
5. UNLESS SHOWN OTHERWISE ALL OPENINGS IN WALLS SHALL HAVE HEADERS CONSISTING OF A MINIMUM OF TWO 2X12'S.
6. ALL LUMBER, PLYWOOD, PSL OR OTHER STRUCTURAL WOOD ELEMENTS IN CONTACT WITH MASONRY OR EXPOSED TO EARTH OR WEATHER SHALL BE PRESSURE TREATED WITH CCA OR MCQ TO A MINIMUM RETENTION OF 0.40 LBS/CU. FT. IN ACCORDANCE WITH AWPA. ACQ TREATMENT IS NOT ALLOWED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
7. ALL TREATED WOOD MEMBERS SHALL BE CONNECTED OR FASTENED WITH GALVANIZED NAILS, SCREWS, OR BOLTS. THE COATING MUST BE HOT-DIPPED TO AN EQUIVALENT OF G-90 RATING OR GREATER.
8. JOIST AND BEAM HANGERS, HURRICANE CLIPS, AND OTHER TIES, ANCHORS, OR CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE CO., INC. AND SHALL BE ATTACHED WITH NAILS OF THE SIZE AND TYPE RECOMMENDED BY THE MANUFACTURER. ROOFING NAILS MAY NOT BE USED. ALL HANGERS, CLIPS, CONNECTORS, ANCHORS, TIES, ETC. SHALL BE GALVANIZED OR STAINLESS STEEL. ALL SUCH UNITS THAT WILL BE EXPOSED TO WEATHER, IN CONTACT WITH EARTH OR WATER, OR BELOW THE FIRST FLOOR LEVEL SHALL BE STAINLESS OR MEET G-185 RATING.
9. UNLESS SHOWN OTHERWISE ALL PLYWOOD SHEATHING SHALL BE FASTENED WITH 8D RING SHANK NAILS (.131" MIN. DIAMETER) OR #10 SCREWS (.19" NOMINAL DIAMETER) SPACED AT 6" O.C. MAXIMUM ALONG SUPPORTING MEMBERS ON THE INTERIOR OF EACH SHEET AND SPACED AT 4" O.C. MAXIMUM ALONG SUPPORTING MEMBERS AT THE EDGES OF EACH SHEET. THE USE OF STAPLES WILL NOT BE ALLOWED.
10. ALL PLYWOOD WALL SHEATHING SHALL HAVE SOLID BLOCKING AT ALL HORIZONTAL JOINTS. VERTICAL JOINTS OF PLYWOOD ROOF SHEATHING SHALL BE STAGGERED EVERY FOUR FEET OR LESS.
11. ALL MEMBERS DESIGNATED AS "LVL" SHALL BE LAMINATED VENEER LUMBER HAVING PROPERTIES AND STRENGTHS EQUAL TO THE TRUSS JOIST MACMILLAN COMPANY'S "MICROLLAM".
12. WOOD TRUSS AND TRUSS JOIST NOTES:
   A. ATTACH TRUSSES TO SUPPORTS WITH SPECIFIED GALVANIZED METAL CONNECTORS.
   B. ALL WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND IN ACCORDANCE WITH THE AMERICAN FOREST & PAPER ASSOCIATION'S "NATIONAL DESIGN SPECIFICATION".
   C. EVERY TRUSS MEMBER SHALL BE SIZED AND BRACED SO THAT THE RATIOS OF ITS LENGTH TO ITS DEPTH AND ITS THICKNESS (L/D) ARE LESS THAN 50. MANY OF THE CEILINGS WILL NOT BE RIGIDLY ATTACHED TO THE TRUSS BOTTOM CHORDS. WHERE THIS OCCURS LATERAL BRACING MUST BE DESIGNED AND INSTALLED ON THE BOTTOM CHORDS TO MEET THE L/D LESS THAN 50 REQUIREMENT.
   D. THE DESIGN, CONFIGURATION, LAYOUT, SPACING, ETC. OF ALL TRUSSES SHALL BE COORDINATED BY THE CONTRACTOR AND TRUSS DESIGNER WITH THE MECHANICAL EQUIPMENT, DUCTWORK, AND ALL ARCHITECTURAL DRAWINGS.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

COMPONENT AND CLADDING WIND PRESSURES

153 MPH, WIND EXPOSURE B
RISK CATEGORY IV

WIND ZONE	10FT2		20FT2		50FT2		100FT2	
	POS	NEG	POS	NEG	POS	NEG	POS	NEG
ROOF 1	11.40	-38.51	9.25	-38.51	6.41	-38.51	4.26	-38.51
ROOF 2	11.40	-84.83	9.25	-76.23	6.41	-64.87	4.26	-56.27
ROOF 3	11.40	-84.83	9.25	-76.23	6.41	-64.87	4.26	-56.27
WALL 4	42.07	-45.63	40.16	-43.73	37.64	-41.21	35.74	-39.30
WALL 5	42.07	-56.32	40.16	-52.51	37.64	-47.47	35.74	-43.66

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STATE OF LOUISIANA
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IN
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2-23-2017

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PROJ. # C16-0058

date
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sheet
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February 20, 2017

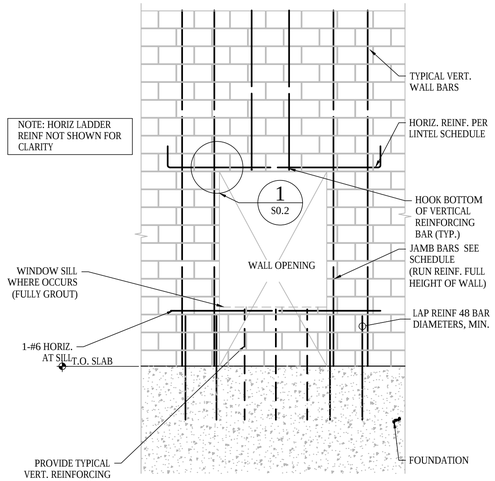
NOTE:

THE FOLLOWING TESTING SERVICES SHALL BE PERFORMED BY AN INDEPENDENT TESTING COMPANY AS SELECTED BY THE OWNER TO ENSURE CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.

CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH TESTING COMPANY FOR ALL REQUIRED INSPECTIONS.

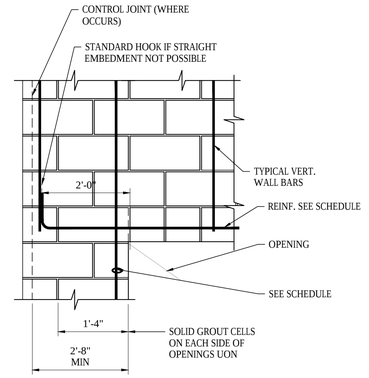
IBC 2012/TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318:3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2,2, ITEM 2b.	-	-	AWS D1.4 ACI 318:3.5.2	-
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	-	X	ACI 318 : 8.1.3, 21.1.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	-	X	ACI 318: 3.8.6,8.1.3, 21.1.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI318: Ch.4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7 INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318:5.9,5.10	1910.6, 1910.7, 1910.8
8. INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318:5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	-	ACI 318:18.20 ACI 318: 18.18.4	-
10. ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: CH.16	-
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENTIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318:6.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318:6.1.1	-



TYPICAL CMU WALL OPENING

N.T.S.



SECTION

N.T.S.

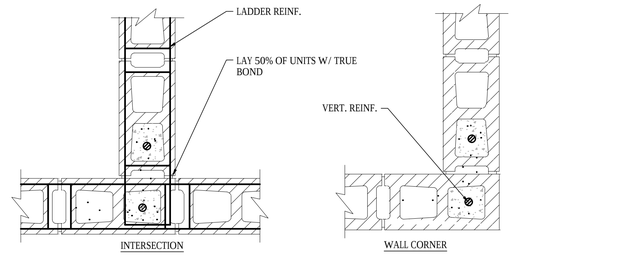
LINTEL SCHEDULE CONCRETE MASONRY UNITS		
OPENING SIZE (UP TO & INCLUDING)	LINTEL "U"-BLOCK SIZE AND REINFORCING	JAMBS AT EACH END
4'-0"	8"x8" "U"-BLOCK 1-#5 CONT. BOT.	8x8 COL. REINF. W/1-#5
6'-0"	8"x8" "U"-BLOCK 1-#6 CONT. BOT.	8x16 COL. REINF. W/2-#5
8'-0"	8"x16" "U"-BLOCK 1-#6 CONT. BOT.	8x16 COL. REINF. W/2-#5
12'-0"	2-8"x16" "U" BLOCK 1-#6 CONT. BOT. EA. BLOCK	8x16 COL. REINF. W/2-#6
> 12'-0"	SEE SPECIFIC DETAILS CUT ON PLAN	12x16 COL. REINF. W/2-#8

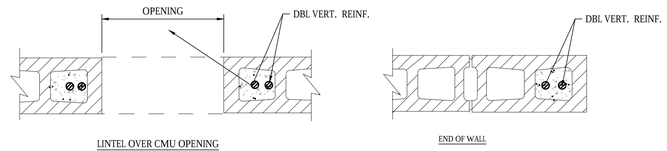
NOTE: EXTERIOR ANGLES SHALL BE GALVANIZED

LINTEL SCHEDULE FOR SINGLE WYTHE OF BRICK	
SPAN (FT).	ANGLE SIZE
TO 4'-0"	L 3 1/2X3 1/2X1/4
TO 6'-0"	L 3 1/2X3 1/2 X3/8
TO 8'-0"	L 5X 3 1/2 X3/8
TO 10'-0"	L 6X 3 1/2 X 3/8
TO 13'-0"	L 8X 4 X 1/2

JOIST HANGER SCHEDULE	
JOIST SIZE	SIMPSON JOIST HANGER
2x4	LUS24
(3)2x4	LUS24-3
2x6	LUS26
(2)-2X6	LUS26-2
2X8	LUS28
(2)-2X8	LUS28-2
2X10	LUS210
(2)-2X10	LUS210-2
2X12	LUS212
(2)-2X12	LUS212-2

* NOTE USE BLOCKING AS REQUIRED.





NOTE:

TYPICAL CMU WALL REINFORCEMENT TO BE AS SHOWN ON PLAN OR WITHIN REINF. MASONRY NOTES IN ADDITION TO THE CONDITIONS SHOWN ABOVE.

TYPICAL REINFORCED CMU WALL DETAILS

N.T.S.

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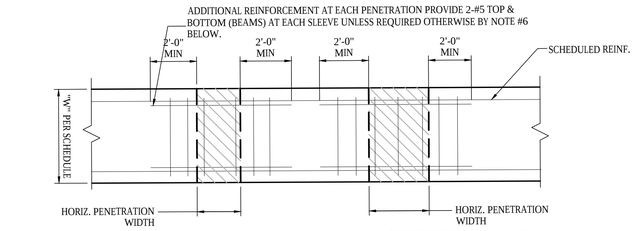
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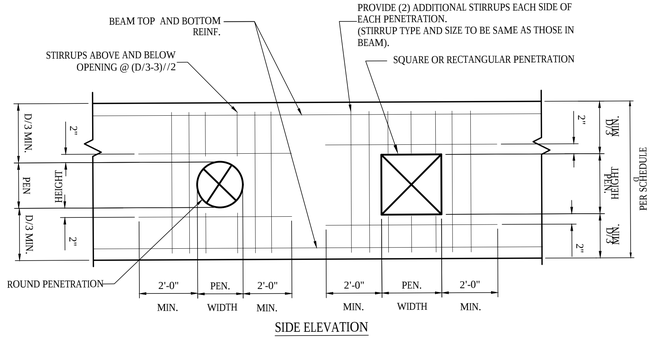
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PLAN

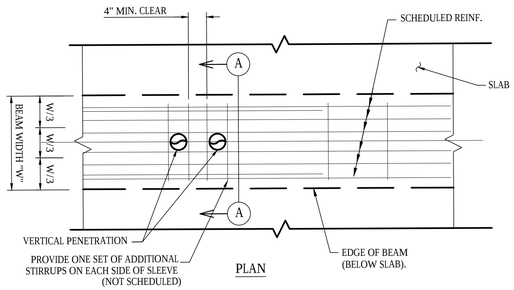
NOTE: SCHEDULED STIRRUPS NOT SHOWN FOR CLARITY.



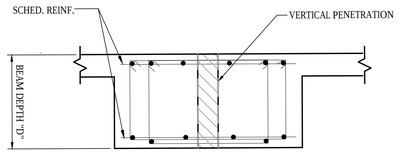
SIDE ELEVATION

HORIZONTAL PENETRATIONS IN GRADE BEAMS

SCALE: N.T.S



PLAN



SECTION - A

VERTICAL PENETRATIONS IN GRADE BEAMS

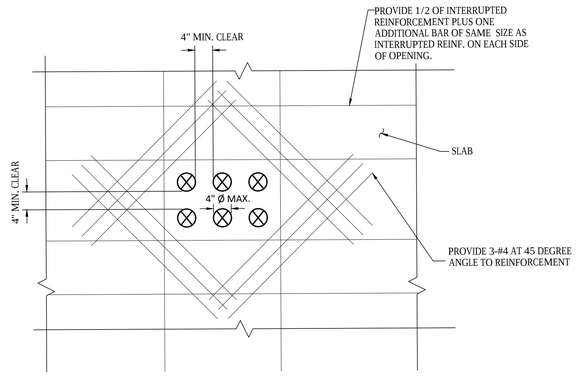
SCALE: N.T.S

HORIZONTAL PENETRATIONS IN GRADE BEAMS ADDITIONAL NOTES

1. REQUIRED BEAM SLEEVES FOR BOTH HORIZONTAL AND VERTICAL PENETRATIONS ARE TO BE COORDINATED BY CONTRACTOR. REQUIRED SLEEVES MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORM WORK SHOP DRAWING SUBMITTAL.
2. SLEEVES SHALL BE LOCATED ON THE BEAM CENTERLINE OR AT LEAST WITHIN THE MIDDLE THIRD OF THE SCHEDULED BEAM WIDTH.
3. CONTINUOUS BEAM REINFORCING MAY BE SLIGHTLY DISPLACED (3"MAX.) OR ADJACENT BARS BUNDLED (2 BARS BUNDLES MAX.) TO FACILITATE SLEEVE INSTALLATION, DO NOT CUT, OFFSET, OR BEND REINFORCING.
4. SLEEVES OCCURRING ON OPPOSITE SIDES OF A COLUMN MUST BE IN LINE.
5. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 15% OF THE SCHEDULE WIDTH OF THE BEAM THROUGH WHICH IT MUST PASS.
6. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR DIRECTIONS WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE CONDITIONS ESTABLISHED ABOVE.

VERTICAL PENETRATIONS IN GRADE BEAMS ADDITIONAL NOTES

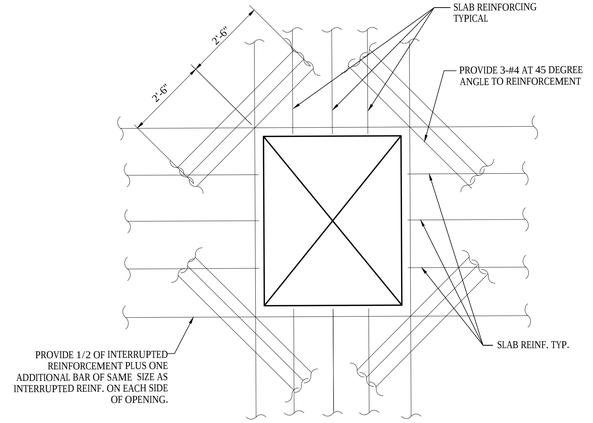
1. GENERAL CONTRACTOR TO COORDINATE LOCATION, SIZE AND ELEVATION AND INCLUDE IN HIS CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS AND JOISTS, WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. WHERE BEAM PENETRATIONS ARE REQUIRED, BUT ARE NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS, SUBMIT DRAWINGS SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS, FOR REVIEW AND APPROVAL.
3. "D" DENOTES THE DEPTH OF BEAM OR JOIST.
4. CLEAR SPACING BETWEEN PENETRATIONS, SHALL BE 24" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.
5. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
   A. FOR BEAMS (AND JOIST) NOT SUPPORTING INTERSECTING BEAMS (OR JOISTS): PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
   B. FOR BEAMS (AND JOIST) SUPPORTING INTERSECTING BEAMS (OR JOISTS): CHECK WITH STRUCTURAL ENGINEER.
6. FOR LOCATIONS AND/OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE THE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.

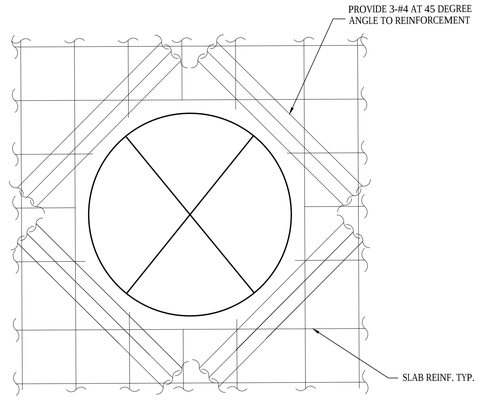


TYPICAL ELECTRICAL CONDUIT OPENING IN SLAB DETAIL

SCALE: N.T.S

GENERAL SHEET NOTES





TYPICAL SINGLE OPENING IN SLAB DETAILS

SCALE: N.T.S

PENETRATIONS IN SLAB ADDITIONAL NOTES

1. GENERAL CONTRACTOR TO COORDINATE LOCATION, SIZE AND ELEVATION AND INCLUDE IN HIS CONTRACT PRICE ALL REQUIRED VERTICAL PENETRATIONS THROUGH CONCRETE SLABS, WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.
2. WHERE SLAB PENETRATIONS ARE REQUIRED, BUT ARE NOT SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS, SUBMIT DRAWINGS SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED VERTICAL PENETRATIONS, FOR REVIEW AND APPROVAL.
3. CLEAR SPACING BETWEEN VERTICAL PENETRATIONS, SHALL BE 4" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.
4. FOR LOCATIONS AND/OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE THE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.
5. NO CONDUITS/PIPES ARE ALLOWED TO RUN HORIZONTALLY IN THE SLAB.

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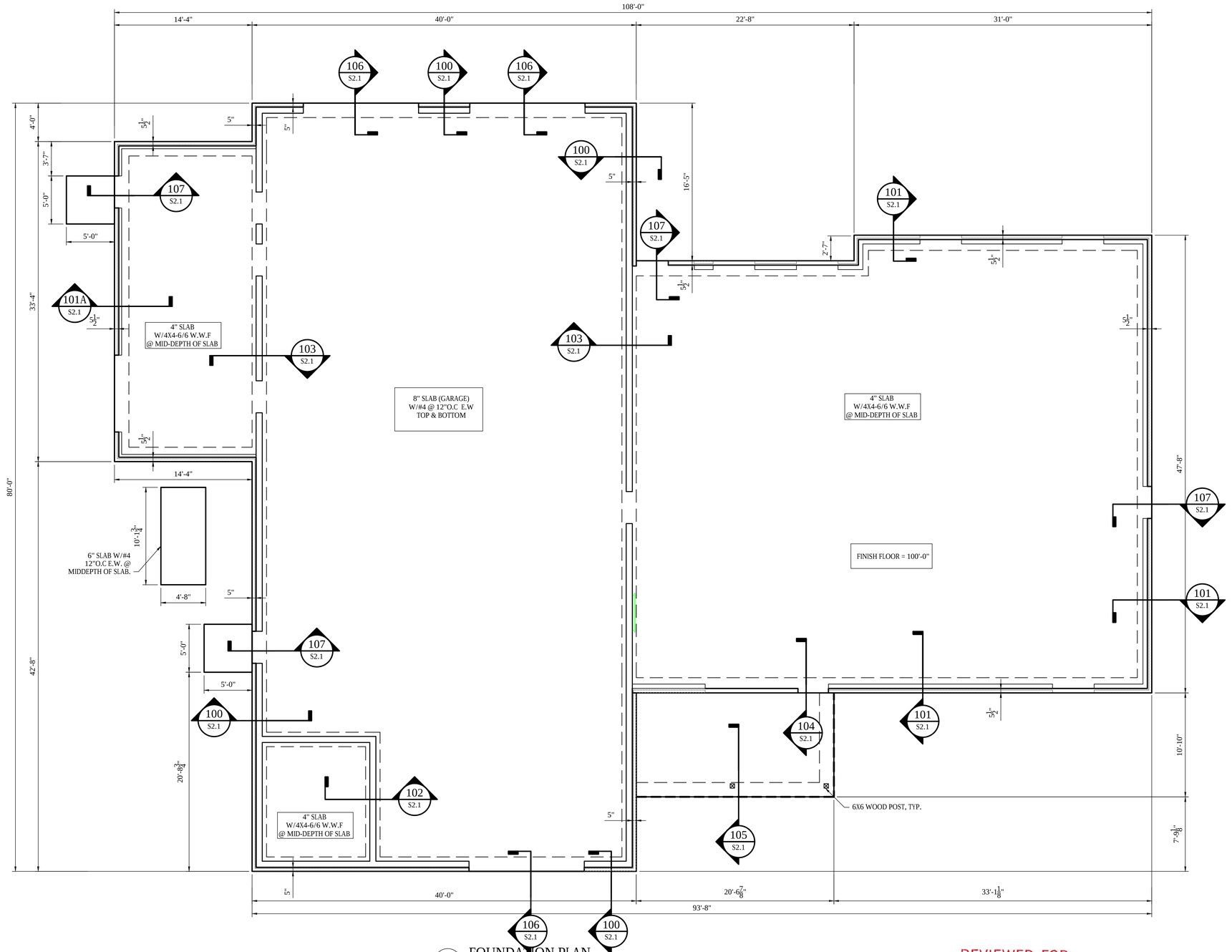
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1 FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

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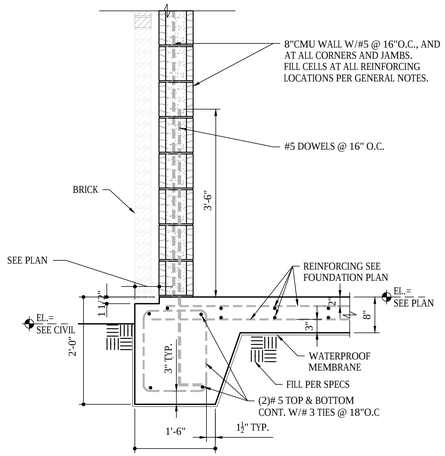
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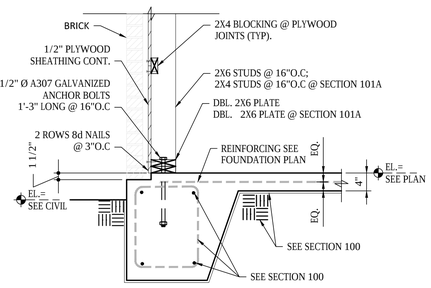
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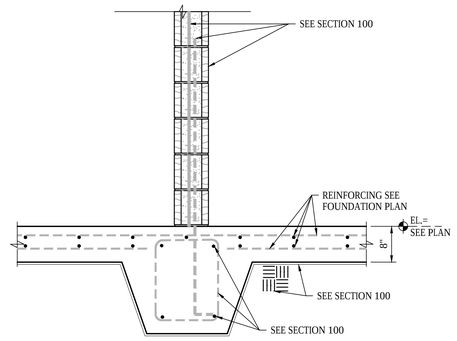
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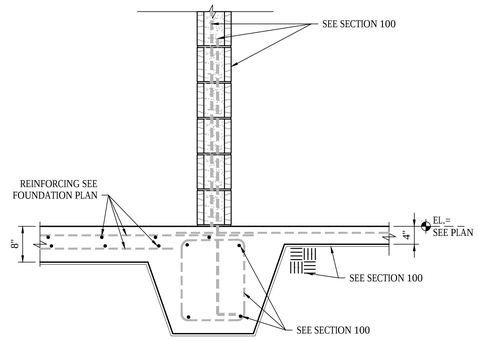
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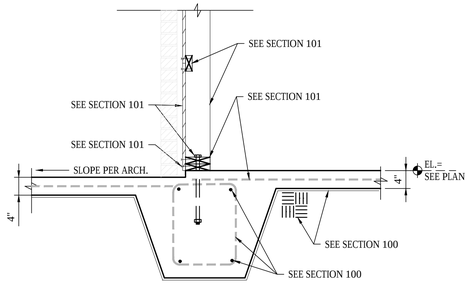
101 S2.0 101A S2.0 SECTION 3/4"=1'-0"



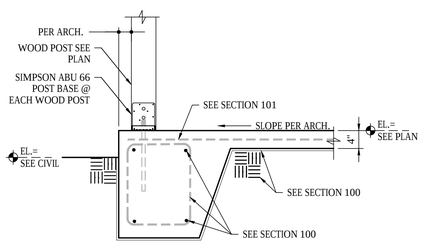
102 S2.0 SECTION 3/4"=1'-0"



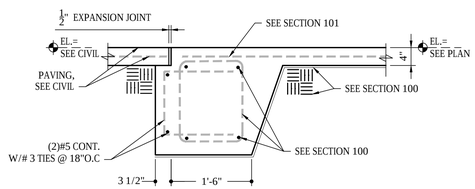
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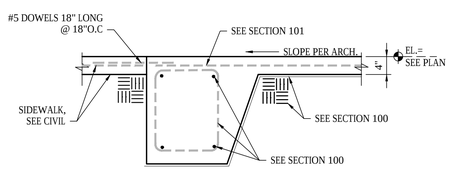
104 S2.0 SECTION 3/4"=1'-0"



105 S2.0 SECTION 3/4"=1'-0"



106 S2.0 SECTION 3/4"=1'-0"



107 S2.0 SECTION 3/4"=1'-0"

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STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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February 20, 2017

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DWAYNE A. MARLBOROUGH
LICENSED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
2-23-2017

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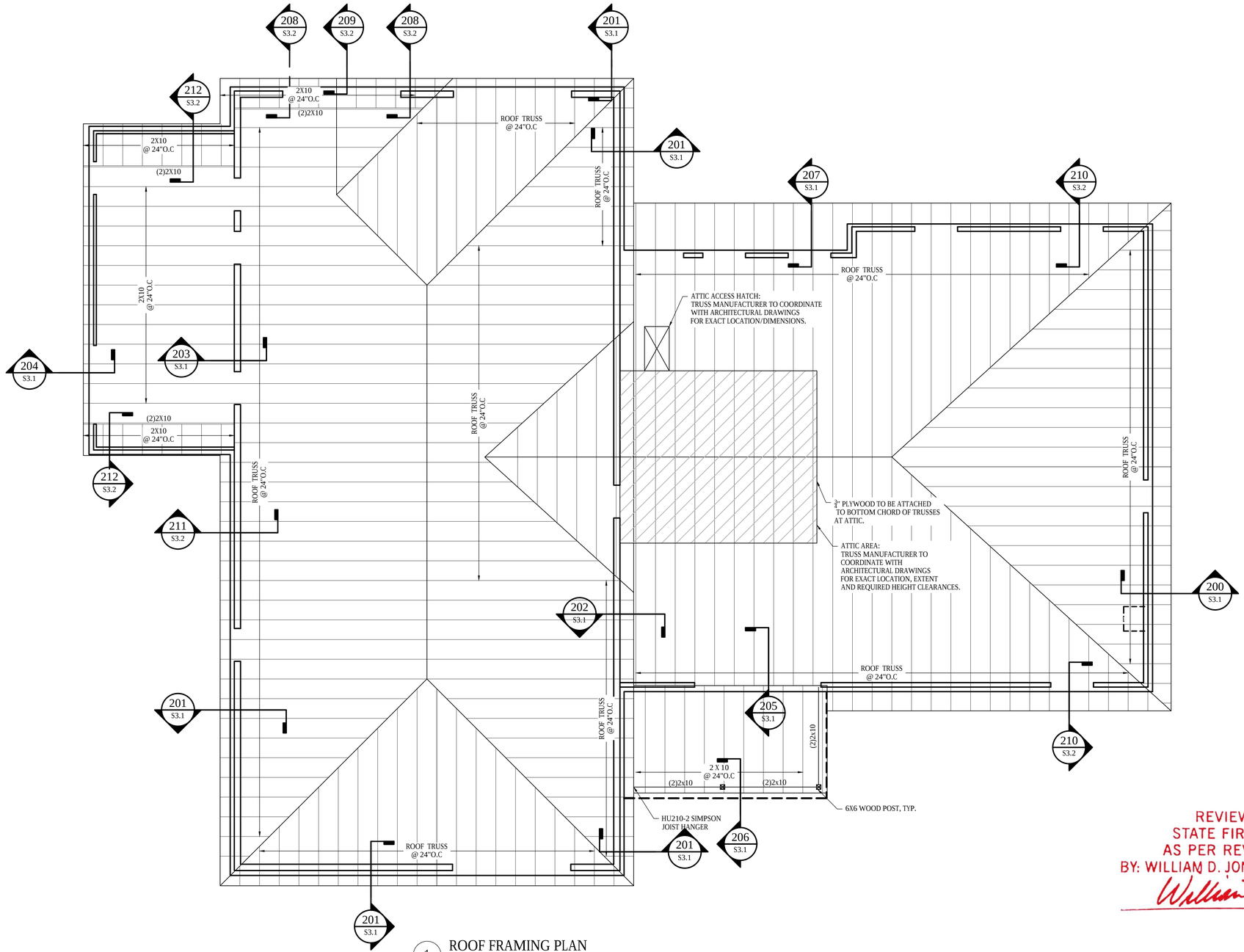
revisions

No.	Description	Date

PROJ. #: C16-0058

date
FEBRUARY 23, 2017

sheet
S 2.1



1 ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"

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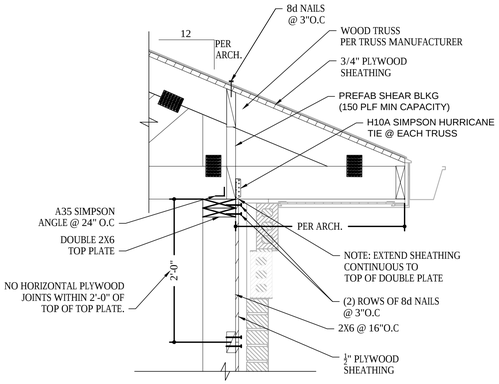
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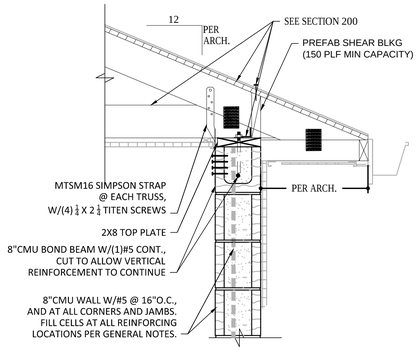
PROJ. # : C16-0058

date
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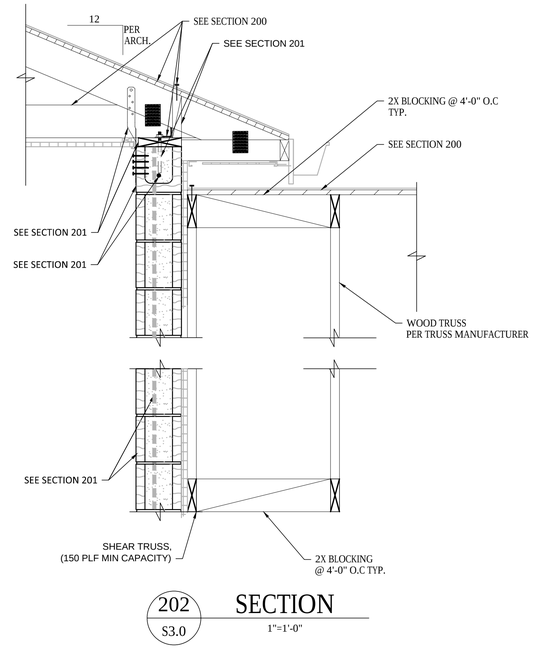
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S 3.0



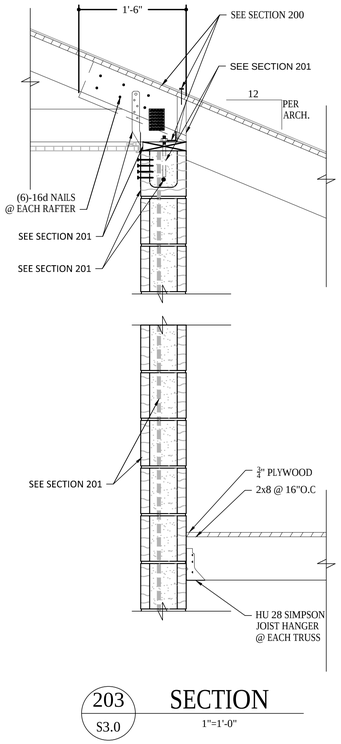
200 SECTION
S3.0 1"=1'-0"



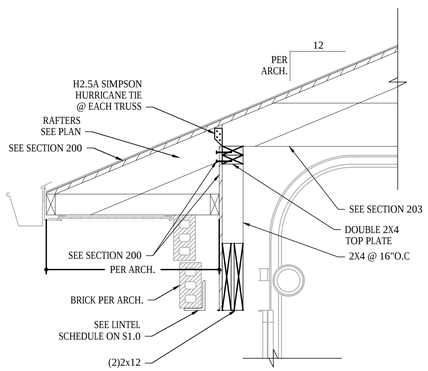
201 SECTION
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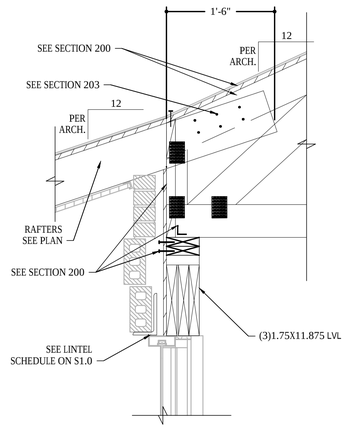
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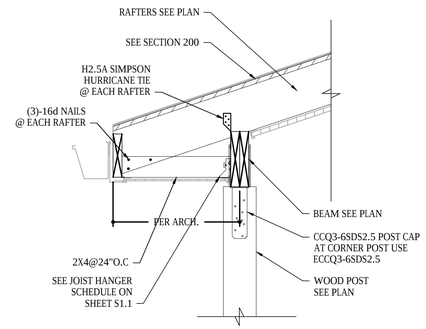
203 SECTION
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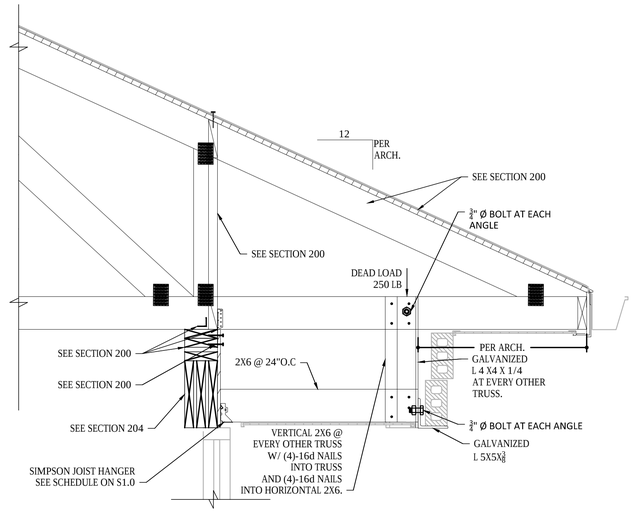
204 SECTION
S3.0 1"=1'-0"



205 SECTION
S3.0 1"=1'-0"



206 SECTION
S3.0 1"=1'-0"



207 SECTION
S3.0 1"=1'-0"

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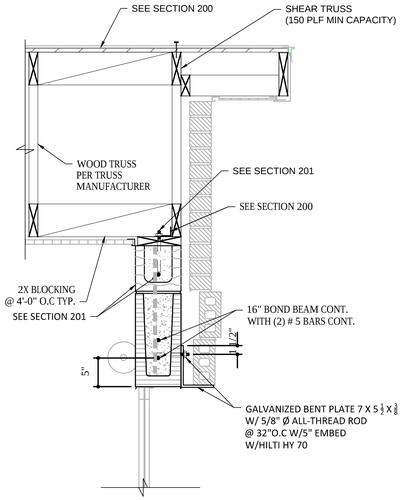
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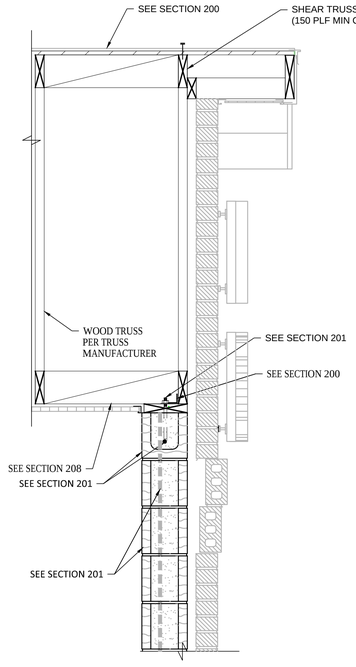
PROJ. #: C16-0058

date
FEBRUARY 23, 2017

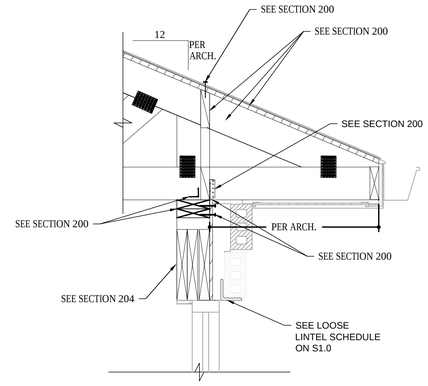
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S 3.1



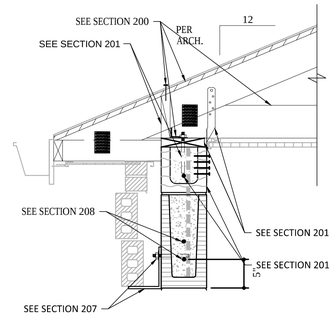
208 S3.0 SECTION
1"=1'-0"



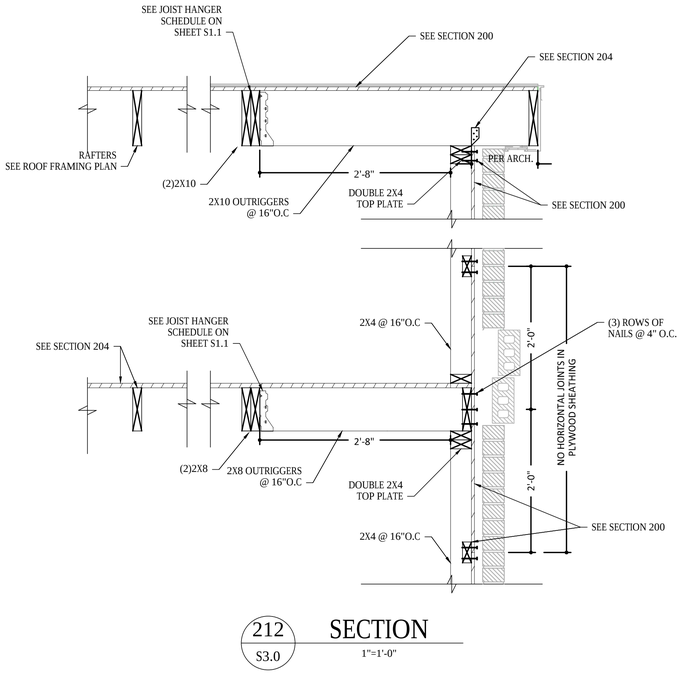
209 S3.0 SECTION
1"=1'-0"



210 S3.0 SECTION
1"=1'-0"



211 S3.0 SECTION
1"=1'-0"



212 S3.0 SECTION
1"=1'-0"

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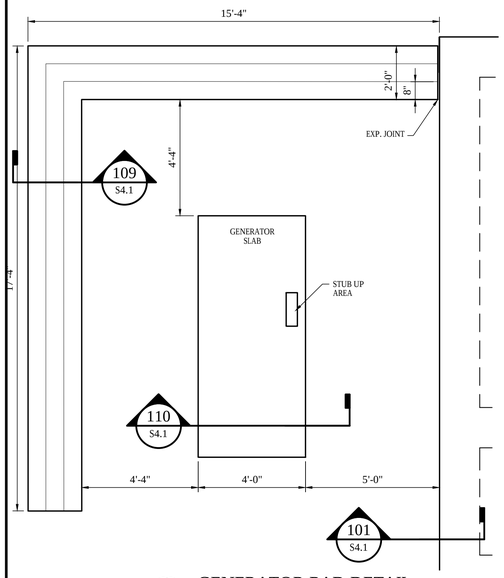
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No.	Description	Date

PROJ. #: C16-0058

date
FEBRUARY 23, 2017

sheet
S 3.2

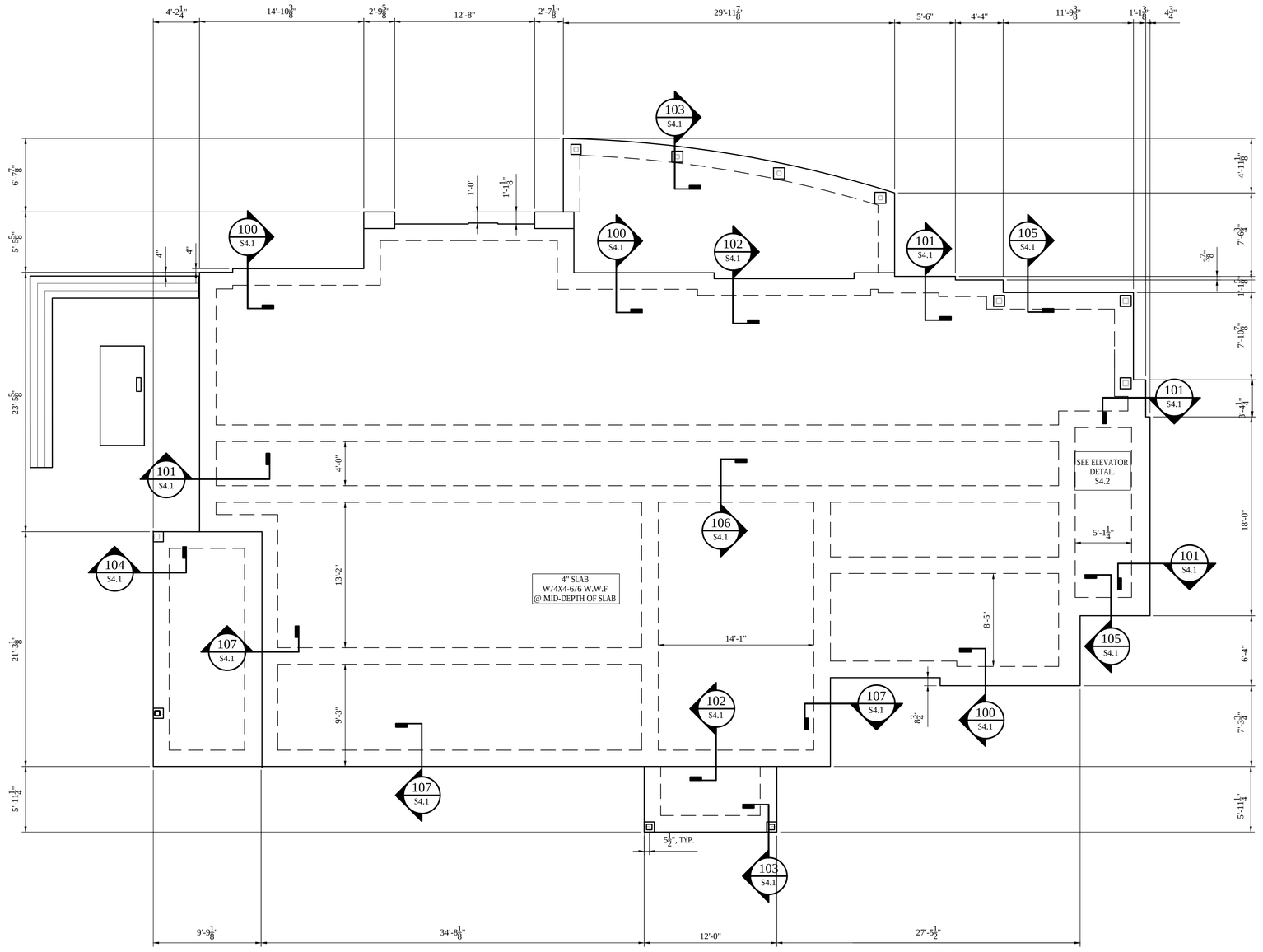


1 GENERATOR PAD DETAIL

SCALE: 3/8" = 1'-0"

NOTE:

VERIFY ALL SLAB DIMENSIONS VS ARCHITECT DRAWINGS. IN THE EVENT OF A DISCREPANCY, ARCHITECT'S DIMENSIONS SHALL GOVERN



1 FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

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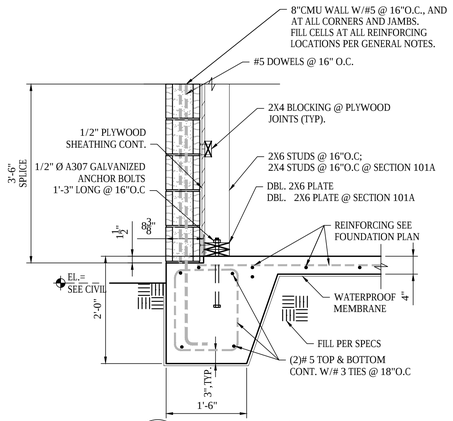
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date: FEBRUARY 23, 2017

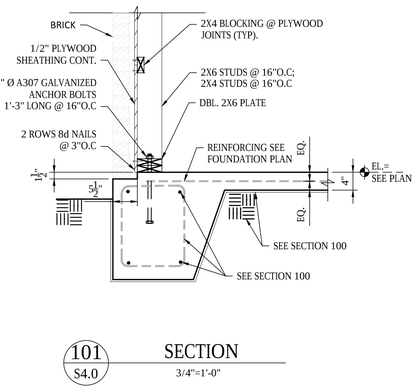
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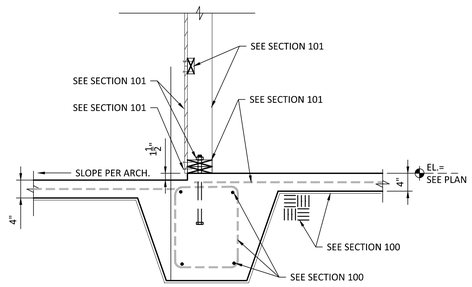
February 20, 2017



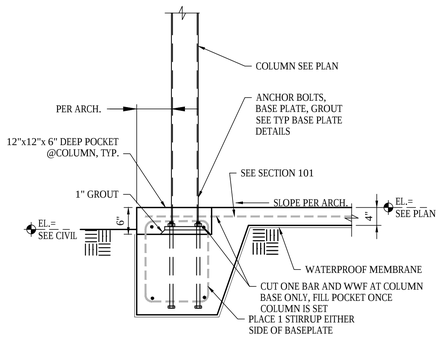
100 S4.0 SECTION 3/4"=1'-0"



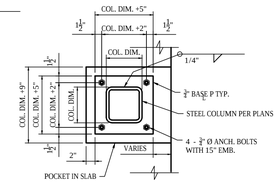
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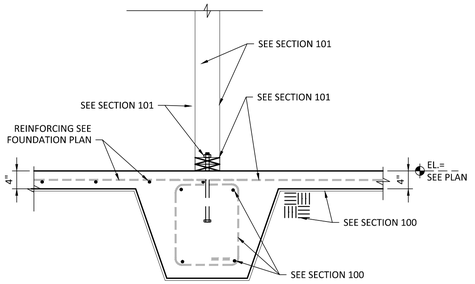
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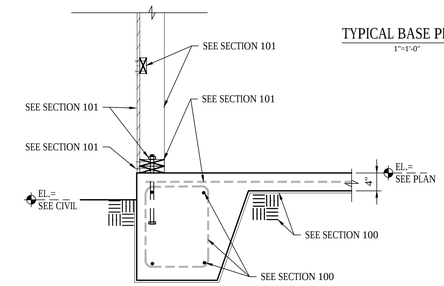
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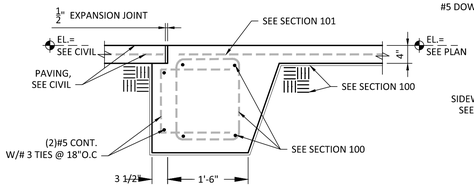
TYPICAL BASE PLATE
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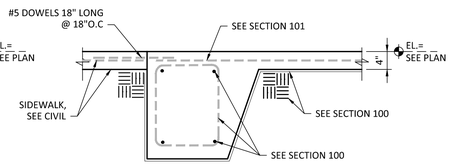
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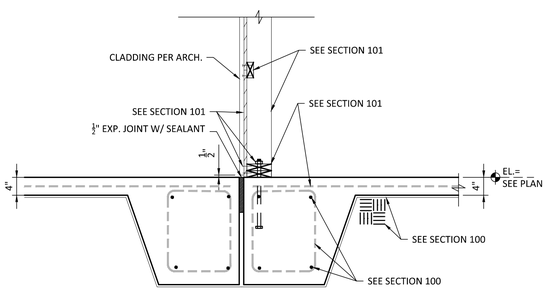
107 S4.0 SECTION 3/4"=1'-0"



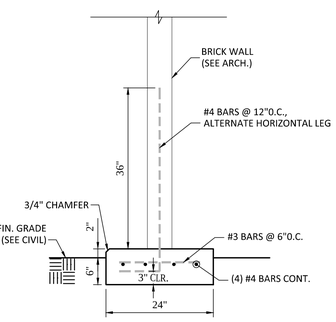
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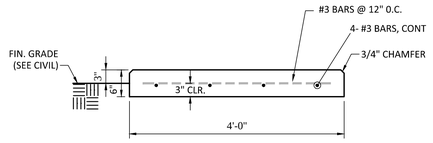
105 S4.0 SECTION 3/4"=1'-0"



108 S4.0 SECTION 3/4"=1'-0"



109 S4.0 SECTION 3/4"=1'-0"



110 S4.0 SECTION 3/4"=1'-0"

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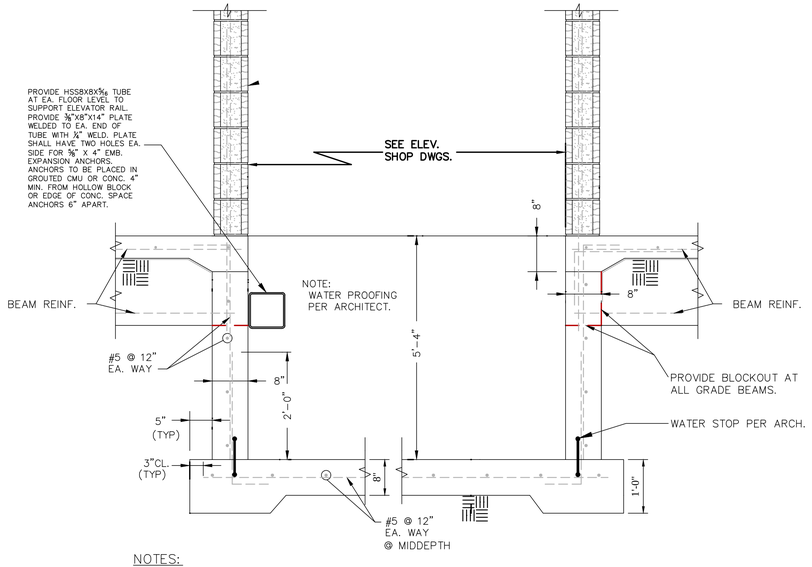
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No.	Description	Date

PROJ. #: C16-0058

date
FEBRUARY 23, 2017

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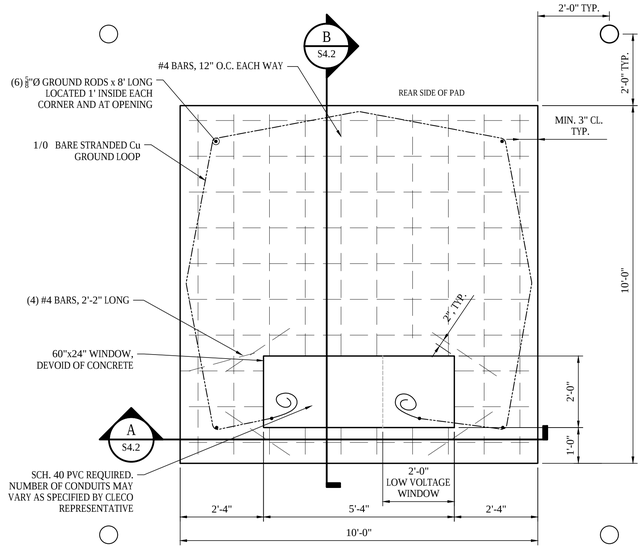


NOTES:

1. PROVIDE 1'-0" SQ. X 1'-0" DEEP SUMP PIT W/ 1" W.P. 6" WALLS & BOTT. SLAB, REINF. W/ #5 @ 12" E.W.
2. SEE ELEVATOR DWGS. FOR BLOCKOUT FOR JACK. PROVIDE 1-#5 T&B X6'-0" LONG ADDIT. REINF. 4-SIDES OF OPENING.

ELEVATOR DETAIL

3/4"=1'-0"



TRANSFORMER FOUNDATION PLAN

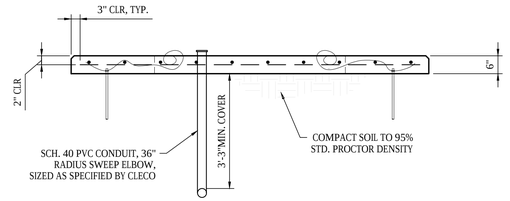
1/2" = 1'-0"

NOTES:

1. THE SECTIONS OF CONDUIT FOR CLECO'S PRIMARY CONDUCTORS ARE TO BE POSITIONED IN THE HIGH VOLTAGE WINDOW OPENING AS SPECIFIED BY THE LOCAL CLECO ENGINEERING REPRESENTATIVE. THE PRIMARY CONDUIT SHALL UTILIZE 36" RADIUS SWEEP ELBOWS.
2. CONDUIT FOR SERVICE CONDUCTORS SHOULD BE POSITIONED AS REQUIRED IN THE 24" x 18" LOW VOLTAGE WINDOW OPENING AS SHOWN ON THE DRAWING. IF CLECO IS RESPONSIBLE FOR THE SERVICE CONDUCTORS REFER TO THE FOLLOWING CHART FOR DETERMINING THE MINIMUM RADIUS ELBOWS THAT CAN BE USED BASED ON THE SIZE CONDUIT SPECIFIED BY THE LOCAL CLECO ENGINEERING REPRESENTATIVE.

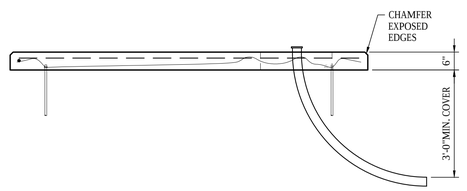
CONDUIT SIZE	MIN. BEND RADIUS
2" - 2.5"	24"
3" - 5"	36"
6" - 8"	48"

3. GROUND LOOP CONDUCTOR IS TO BE CONTINUOUS WITH 36" TAILS EXPOSED ABOVE THE SLAB. INTERWEAVE THE CONDUCTOR WITH THE SLAB REINFORCEMENT.
4. HAVE A CLECO REPRESENTATIVE INSPECT AFTER FORMING BUT BEFORE PLACING THE CONCRETE SLAB.
5. ALL CONCRETE SHALL BE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
6. PROVIDE A MINIMUM OF TEN FEET CLEAR SPACE BETWEEN THE SIDES AND REAR OF THE CONCRETE PAD AND ANY FENCE OR STRUCTURE OPENING OR STRUCTURE NOT HAVING A THREE HOUR FIRE RATING.
7. PROVIDE A MINIMUM OF FIVE FEET CLEAR SPACE BETWEEN THE SIDES AND REAR OF THE CONCRETE PAD AND ANY FENCE OR STRUCTURE HAVING A THREE HOUR RATING.
8. PROVIDE A MINIMUM OF FIFTEEN FEET CLEAR SPACE ON THE FRONT SIDE OF THE PAD SO CLECO PERSONNEL CAN INSTALL, OPERATE AND MAINTAIN THE TRANSFORMER FROM THE FRONT OF THE PAD.
9. WHEN THE PAD IS IN AN AREA EXPOSED TO VEHICULAR TRAFFIC, PROVIDE FOUR, 6-INCH CONCRETE FILLER STEEL PIPE BOLLARDS LOCATED AS SHOWN ON THE DRAWING. BOLLARDS ARE TO BE TEEN FEEL IN TOTAL LENGTH WITH A SIX FEET BURIAL DEPTH.



A S4.2 SECTION

1/2" = 1'-0"



B S4.2 SECTION

1/2" = 1'-0"

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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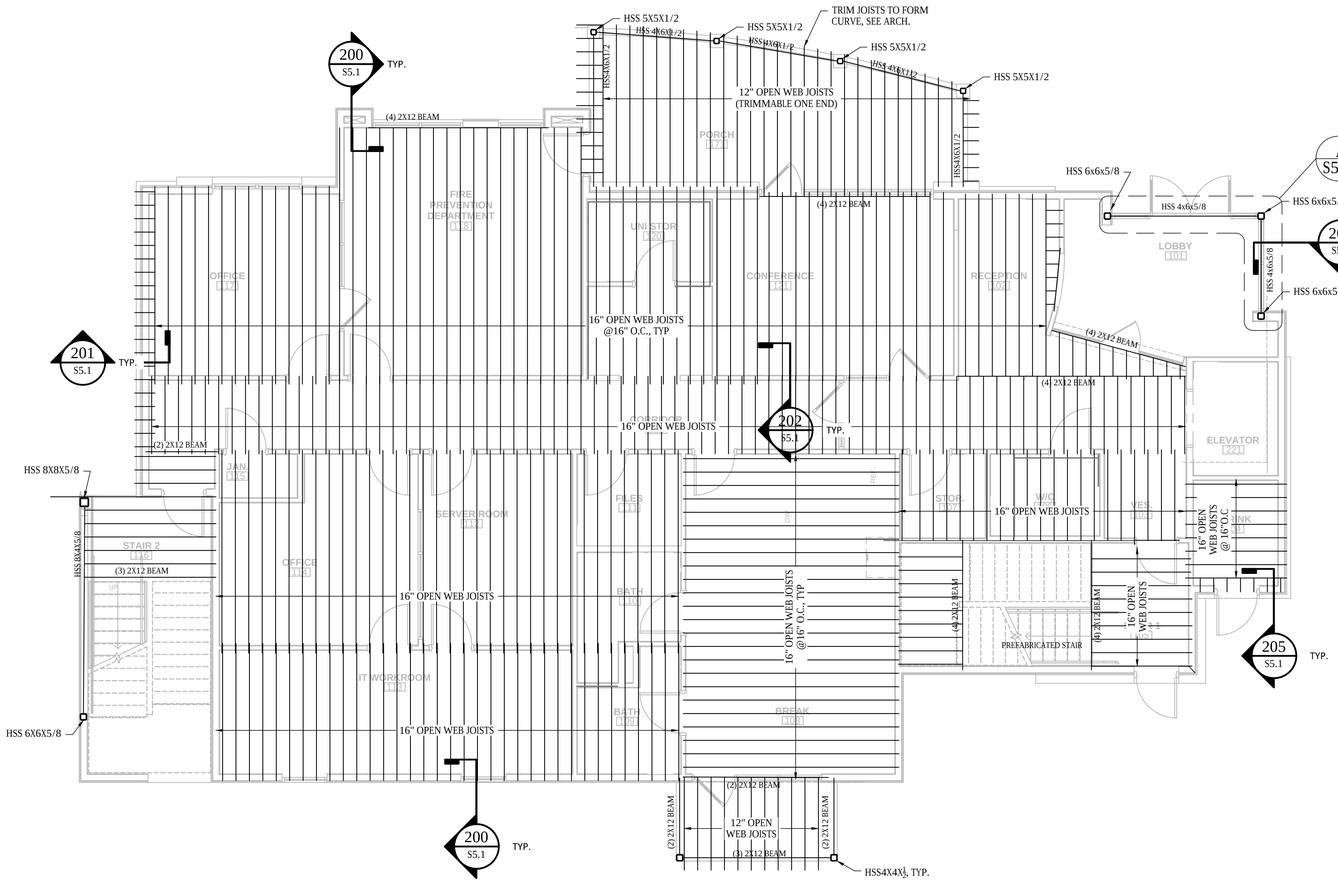
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1 SECOND FLOOR FRAMING PLAN

SCALE: 3/16" = 1'-0"

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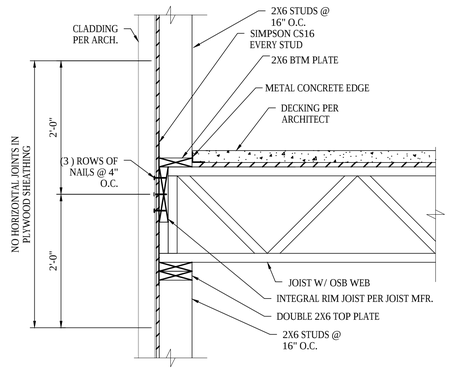
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date
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sheet
S 5.0

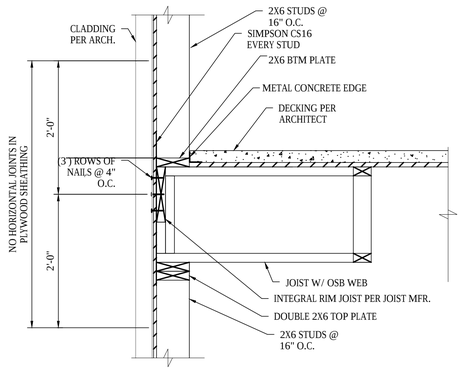
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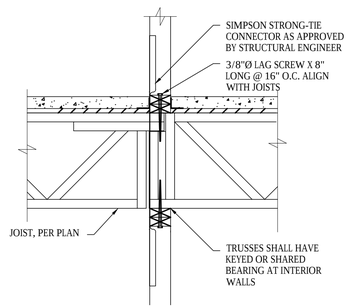
200 S5.0 SECTION

1"=1'-0"



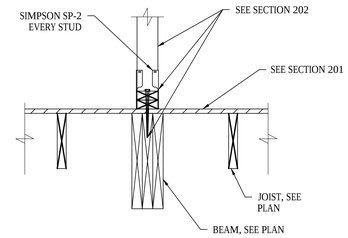
201 S5.0 SECTION

1"=1'-0"



202 S5.0 SECTION

1"=1'-0"

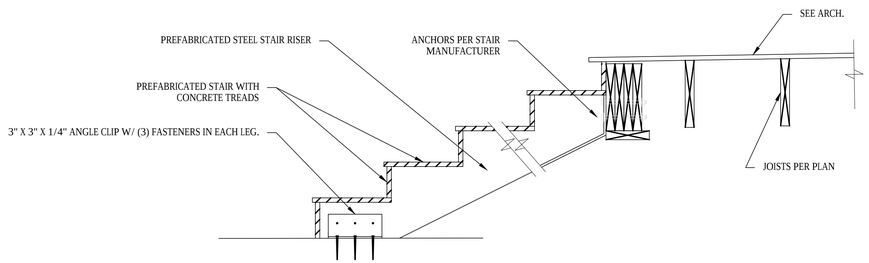


TYPICAL BEAM UNDER LOAD BEARING WALL

1"=1'-0"

JOIST HANGER SCHEDULE	
JOIST SIZE	SIMPSON JOIST HANGER
2x4	LUS24
2x6	LUS26
(2)-2X6	LUS26-2
2X8	LUS26
(2)-2X8	LUS26-2
2X10	LUS28
(2)-2X10	LUS210-2
(3)-2X10	HU210-3(MAX)
2X12	LUS210
(2)-2X12	LUS210-2
(3)-2X12	HU212-3(MAX)
16" OPEN WEB TRUSS	LBV3.12/16, HWU 3.16
BEAM SIZE	SIMPSON JOIST HANGER
3"X 16"LVL	LBV3.12/16
16" OPEN WEB TRUSS	LBV3.12/16

✻ NOTE USE BLOCKING AS REQUIRED.



TYPICAL STAIR DETAIL

1"=1'-0"

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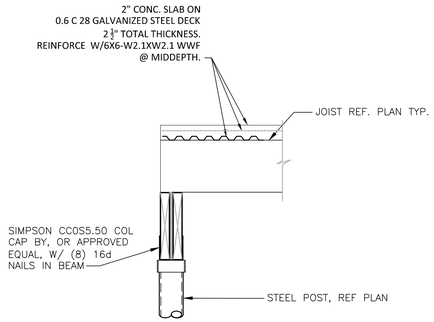
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sheet

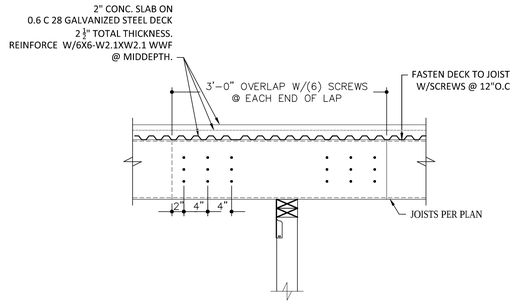
S 5.1

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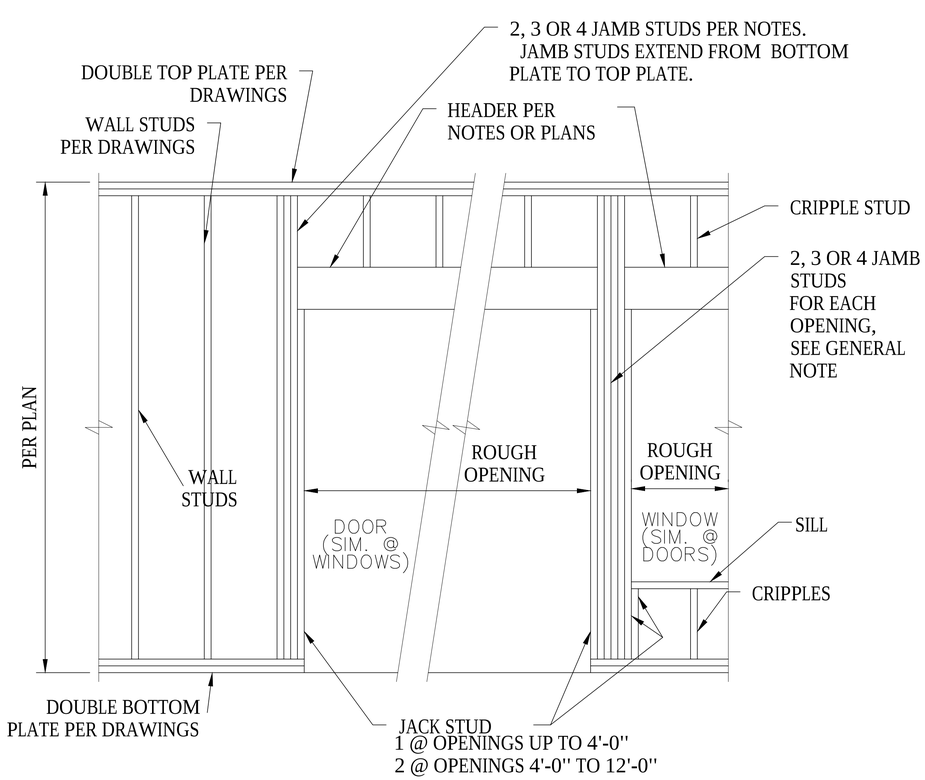
TYPICAL PORCH DETAIL

1"=1'-0"



TYPICAL ROOF FRAMING
LOAD BEARING WALL

1"=1'-0"



INT. JAMB @ MULTIPLE
OPENINGS TYP. JAMB

N.T.S

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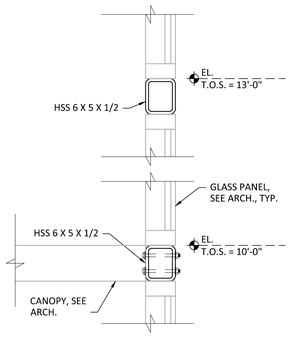
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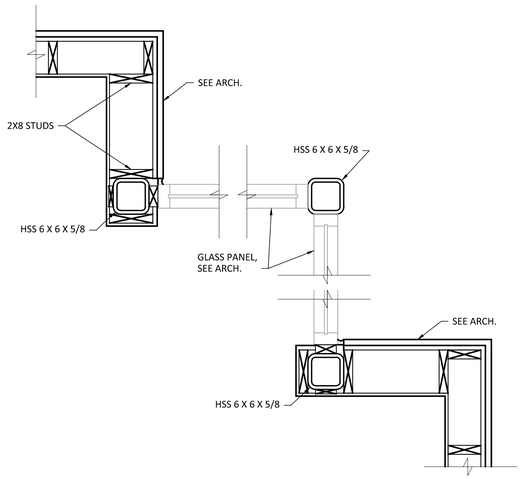
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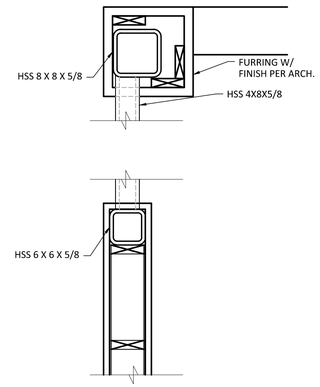
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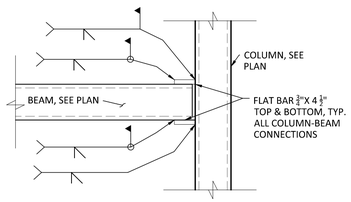
205 / S5.0 SECTION
1"=1'-0"



A / S5.0 DETAIL
1"=1'-0"



B / S5.0 DETAIL
1"=1'-0"



TYPICAL STEEL BEAM- COLUMN CONNECTION
1"=1'-0"

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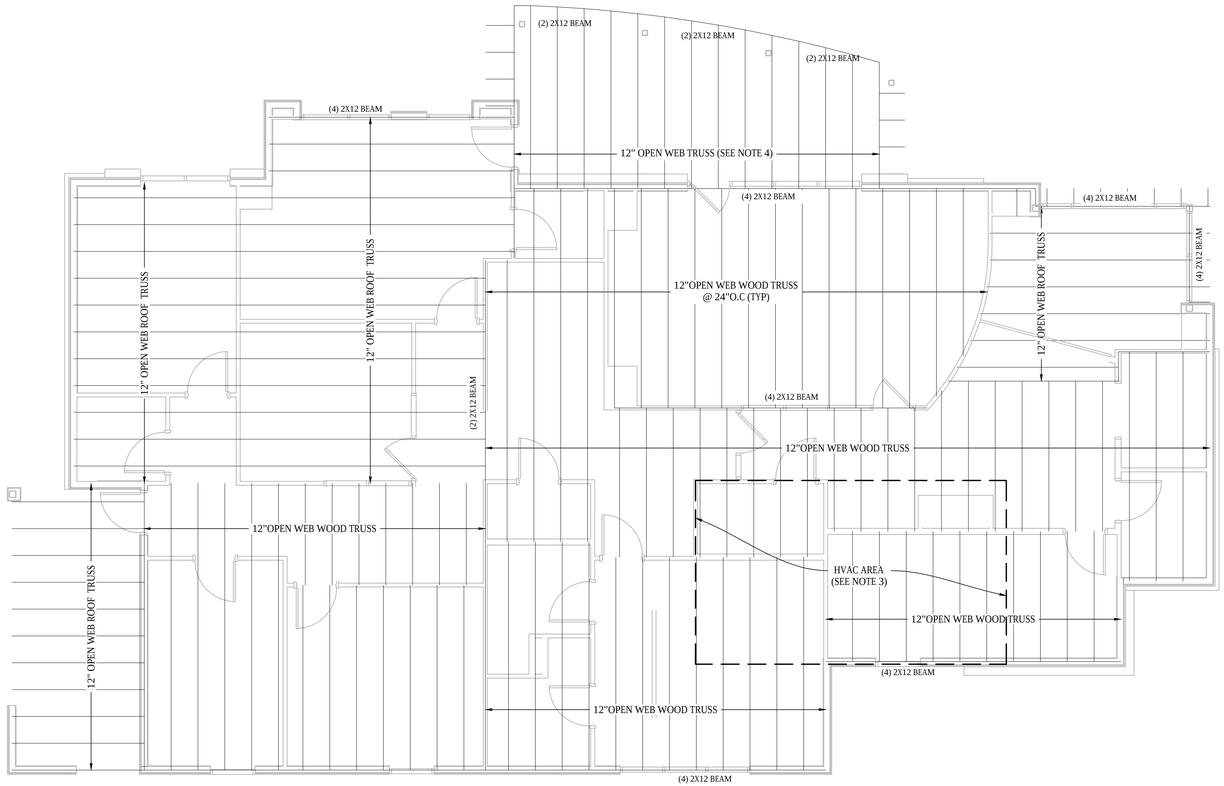
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February 20, 2017

NOTES:

1. ALL ROOF JOIST SPACING SHALL BE 16" O.C., UNLESS NOTED OTHERWISE.
2. ROOF DECK SHALL BE VULCRAFT 22GA 1.5" TYPE "F" GALVANIZED WITH A G-90 FINISH, SCREWED TO JOISTS WITH #12 TEK SCREWS AT A 36/4 PATTERN WITH (4) #12 TEK SCREWS AT SIDELAP PER SPAN U.N.O. EQUIVALENT "SHOT" FASTENERS ARE ALLOWED, ENGINEER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS.
3. ROOF JOISTS SHALL BE DESIGNED TO SUPPORT EITHER OF THE FOLLOWING ADDITIONAL DEAD LOADS IN THE HVAC AREA:
   A. 20 PSF APPLIED OVER THE ENTIRE AREA, OR
   B. 2 POINT LOADS OF 260# SPACED 6' APART, PARALLEL TO THE JOIST DIRECTION.
4. USE TRIMMABLE TRUSS JOISTS WITH 24" SOLID WEB AT ONE END. TRIM TO MATCH CURVE PER ARCHITECTURAL.



1 ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

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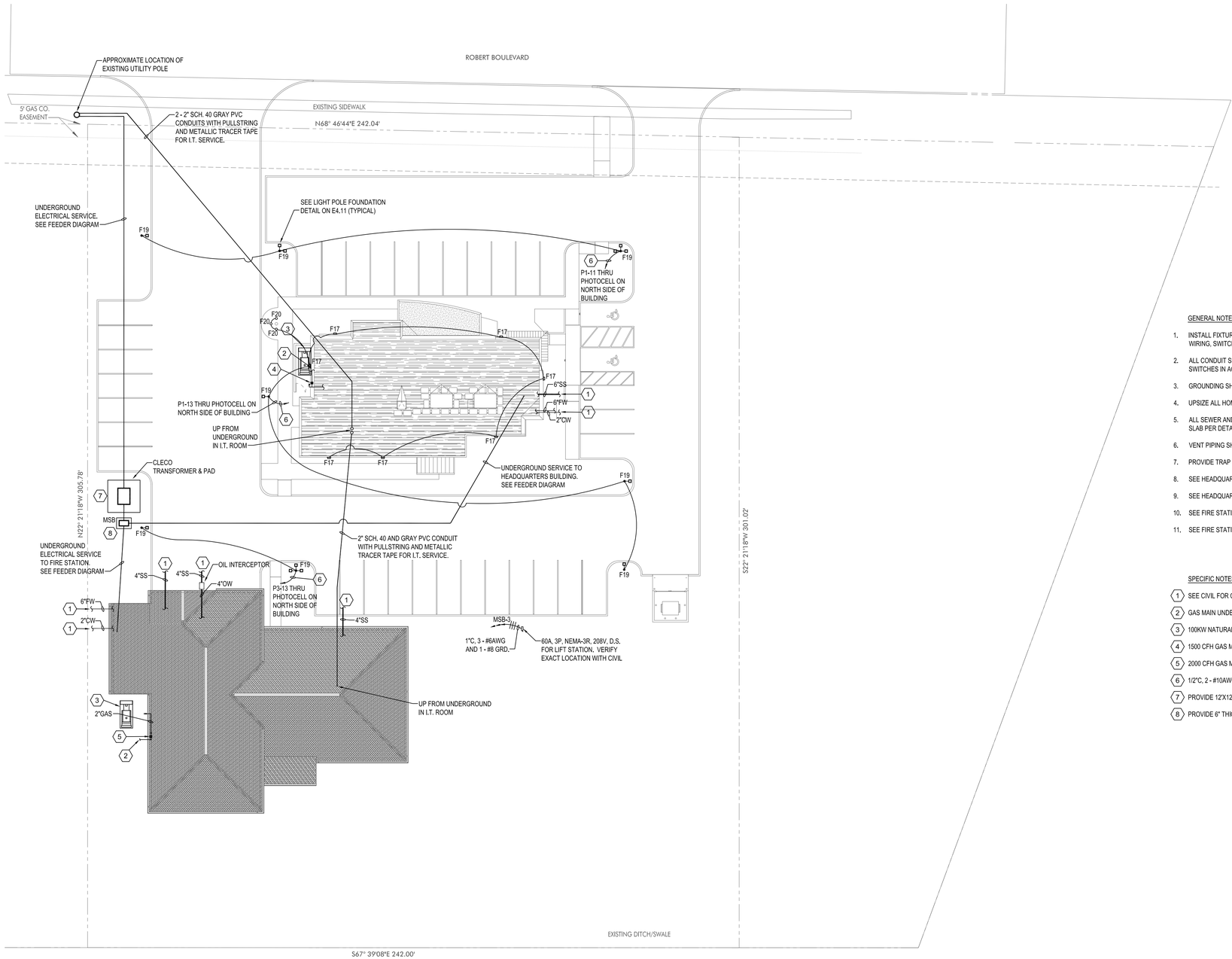
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No.	Description	Date

PROJ. # : C16-0058

date
FEBRUARY 23, 2017

sheet
S 6.0



GENERAL NOTES THIS SHEET:

1. INSTALL FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY WIRING, SWITCHES AND MOUNTING HARDWARE.
2. ALL CONDUIT SHALL BE 1/2" WITH 2#12 AWG & 1#12 GRD UNLESS NOTED OTHERWISE. WIRE MULTI-WAY SWITCHES IN ACCORDANCE WITH THE PRODUCT LITERATURE.
3. GROUNDING SHALL BE IN ACCORDANCE WITH NEC ART. 250.
4. UPSIZE ALL HOMERUNS OVER 75' TO #10 AWG. TYPICAL INTERIOR & EXTERIOR.
5. ALL SEWER AND STORM DRAIN PIPING SHALL BE RUN BELOW SLAB UNLESS NOTED OTHERWISE. HANG FROM SLAB PER DETAIL.
6. VENT PIPING SHALL BE RUN ABOVE CEILING OR TIGHT TO STRUCTURE.
7. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS.
8. SEE HEADQUARTERS PLUMBING FLOOR PLAN ON SHEET M2.11 FOR CONTINUATION IN BUILDING.
9. SEE HEADQUARTERS FIRE PROTECTION FLOOR PLAN ON SHEET M2.13 FOR CONTINUATION IN BUILDING.
10. SEE FIRE STATION PLUMBING FLOOR PLAN ON SHEET M2.21 FOR CONTINUATION IN BUILDING.
11. SEE FIRE STATION PLUMBING FLOOR PLAN ON SHEET M2.22 FOR CONTINUATION IN BUILDING.

SPECIFIC NOTES THIS SHEET:

1. SEE CIVIL FOR CONTINUATION.
2. GAS MAIN UNDER GROUND TO UTILITY SERVICE. COORDINATE SERVICE WITH UTILITY PROVIDER.
3. 100KW NATURAL GAS GENERATOR. OWNER FURNISHED, CONTRACTOR INSTALLED.
4. 1500 CFH GAS METER AT 1/2 PSI DISCHARGE PRESSURE.
5. 2000 CFH GAS METER AT 1/2 PSI DISCHARGE PRESSURE.
6. 1/2"C, 2 - #10AWG AND 1 - #10GRD.
7. PROVIDE 12'X12' CONCRETE PAD PER CLECO DETAILS.
8. PROVIDE 6" THICK REINFORCED CONCRETE PAD 12" LARGER THAN MSB ON ALL SIDES.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 SITE PLAN - NEW FIRE STATION AND HEADQUARTERS - MECHANICAL AND ELECTRICAL
1" = 20'-0"

NOVEMBER 3, 2016

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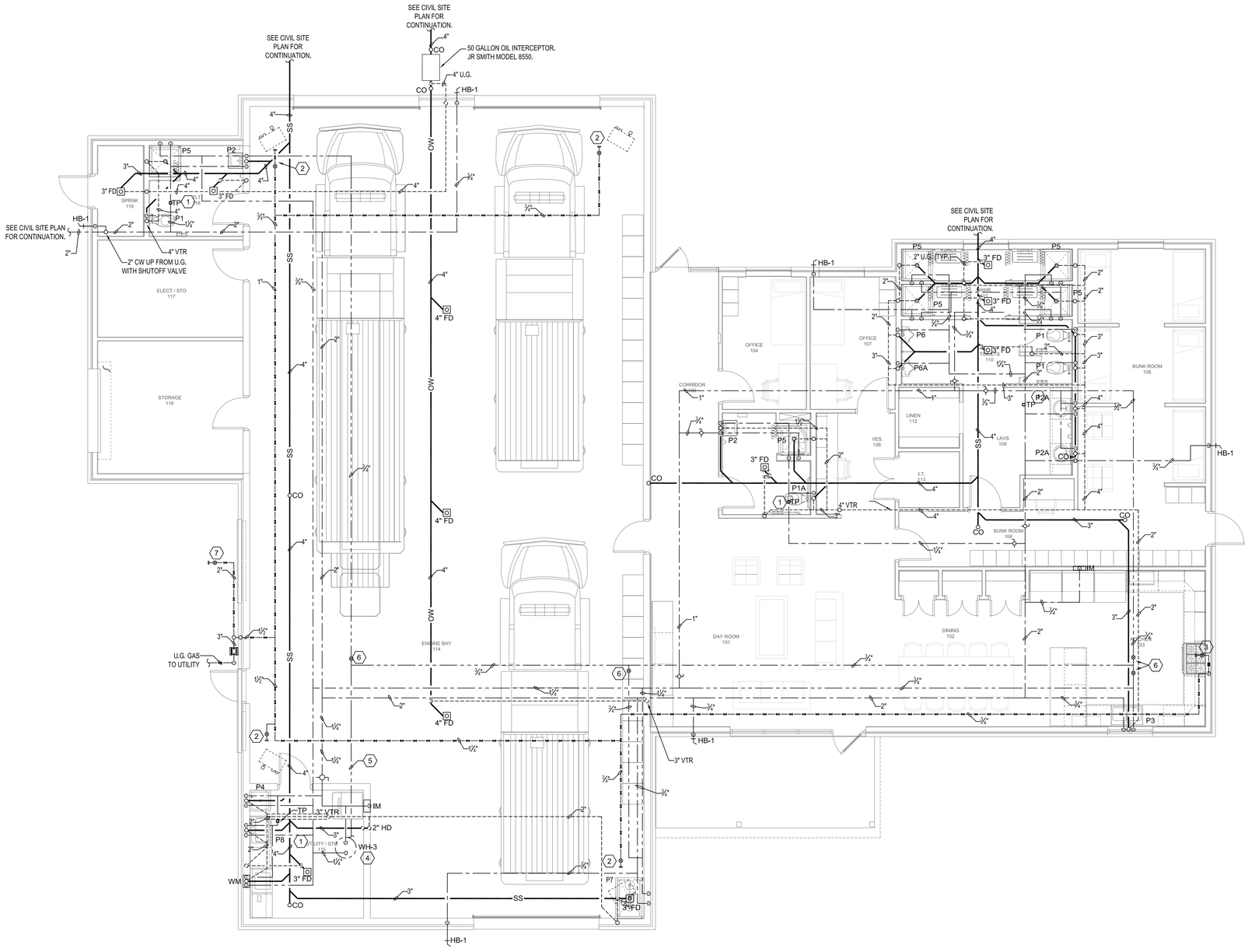
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February 23, 2017

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GENERAL NOTES THIS SHEET:

1. ALL SEWER AND STORM DRAIN PIPING SHALL BE RUN BELOW SLAB UNLESS NOTED OTHERWISE. HANG FROM SLAB PER DETAIL.
2. VENT PIPING SHALL BE RUN ABOVE CEILING OR TIGHT TO STRUCTURE.
3. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS.
4. INSULATE HORIZONTAL RUN OF WASTE PIPING RECEIVING A/C CONDENSATE.
5. INSULATE ROOF DRAINS AND HORIZONTAL STORM DRAIN PIPING RUNS ABOVE GRADE.
6. ALL COLD WATER, HOT WATER AND HOT WATER RE-CIRCULATING PIPING SHALL BE RUN ABOVE CEILING OR TIGHT TO STRUCTURE. STORM DRAIN PIPING ABOVE GRADE SHALL BE RUN ABOVE CEILING OR TIGHT TO STRUCTURE.
7. ALL WATER PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.
8. PROVIDE AIR CHAMBERS ON ALL DOMESTIC WATER BRANCH PIPING SERVING FIXTURES.
9. PROVIDE ISOLATION VALVES IN THE HOT AND COLD WATER PIPING TO ALL FIXTURE GROUPS.
10. MINIMUM VENT THRU ROOF SHALL BE 2".
11. ALL FIXTURES SHALL BE INSTALLED LEVEL AND TRUE. CENTER FIXTURES WHERE APPLICABLE, FOR INSTANCE WATER CLOSETS IN NON-ADA STALLS.
12. ALL ADA FIXTURES SHALL BE INSTALLED PER ADA GUIDELINES.
13. FLOOR DRAINS IN TOILET ROOMS SHALL BE COORDINATED AND LOCATED PER ARCHITECTURAL FLOOR PLANS.
14. FLOOR DRAINS USED FOR AIR UNITS SHALL BE LOCATED AS CLOSE TO EDGE OF UNIT AS POSSIBLE. COORDINATE LOCATION WITH SUBMITTED UNIT DIMENSIONAL DATA.
15. PLUMBING SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE.
16. ALL LAVATORIES SHALL BE PROVIDED WITH A THERMOSTATIC MIXING VALVE LOCATED ABOVE THE CEILING WITH THE HW PIPED TO THE LAVATORY FIXTURE GROUP HW INLET(S). FOR 1 TO 6 LAVATORIES, USE LEONARD MODEL LF-370 OR LAWLER MODEL 570 WITH 3/4" FITTINGS.

SPECIFIC NOTES THIS SHEET:

1. TRAP PRIMER ABOVE CEILING. RUN ½" TRAP PRIMER LINE DOWN WALL U.G. TO FLOOR DRAIN(S). SEE DETAIL ON M4.12.
2. ¾" GAS TO GAS UNIT HEATER WITH GAS COCK, DRIPLEG, AND UNION.
3. ¾" GAS TO RANGE. INSTALL GAS SOLENOID VALVE AND WIRE TO HOOD. PROVIDE GAS COCK, UNION AND DRIPLEG.
4. ELECTRIC WATER HEATER. SEE DETAIL ON M4.12.
5. ¾" HWC RUN TO WATER HEATER.
6. HWC BALANCE COCK. SET AT 1.0 GPM.
7. 2" GAS TO GENERATOR, 1260CFH. PROVIDE GAS COCK, UNION, AND DRIPLEG.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 FLOOR PLAN FIRE STATION - PLUMBING
3/16" = 1'-0"

NOVEMBER 3, 2016

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FIRE PROTECTION GENERAL NOTES:

THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13, 24 AND 101 REQUIREMENTS.

THE CONTRACTOR SHALL COORDINATE PIPE ROUTING WITH ALL DISCIPLINES TO IDENTIFY INTERFERENCES PRIOR TO PREPARATION OF FINAL LAYOUT OF DESIGN AND SHOP DRAWINGS.

THE CONTRACTOR SHALL SIZE ALL PIPES HYDRAULICALLY IN ACCORDANCE WITH NFPA-13 BASED ON ACTUAL ROUTING OF THE SYSTEM AND SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE SPRINKLER SYSTEM COMPONENTS, PIPE LAYOUT DRAWINGS, PIPE SIZES AND HYDRAULIC CALCULATIONS.

THE CONTRACTOR SHALL PERFORM THE FINAL DESIGNS, PREPARE LAYOUT AND FABRICATION DRAWINGS AND DETAILS FOR THE SPRINKLER SYSTEM IN ACCORDANCE WITH APPLICABLE NFPA CODES, AND MEET THE REQUIREMENTS OF THE STATE FIRE MARSHAL, PROPERTY INSURANCE ASSOCIATION OF LOUISIANA AND ALL OTHER AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY OF DESIGN AND OPERATION OF THE SPRINKLER SYSTEM.

PIPE RACKS, CONDUIT BANKS, OVERHANGS, UNDER HANGS, AND DUCTWORK OVER 4' IN WIDTH SHALL REQUIRE SPRINKLER HEADS TO BE INSTALLED BOTH ABOVE AND BELOW. CONTRACTOR SHALL CONFORM TO NFPA-13 REQUIREMENTS.

WHERE PIPING IS EXPOSED, PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE.

THE SPRINKLER SYSTEM SHALL BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSS MAINS. ALL BRANCH LINES SHALL BE ARRANGED TO FACILITATE FLUSHING. ALL VALVES ON CONNECTIONS TO WATER SUPPLIES AND IN SUPPLY PIPES TO SPRINKLERS SHALL BE LISTED INDICATING VALVES.

ALL SPRINKLER WATER CONTROL VALVES AND SUPPLY PIPES SHALL BE PROTECTED AGAINST FREEZING AND MECHANICAL INJURY. TAG AND IDENTIFY ALL SPRINKLER VALVES.

ALL EXPOSED PIPING SHALL BE PAINTED PER DIVISION 9 - FINISHES.

ALL PIPING SHALL BE CONCEALED UNLESS OTHERWISE NOTED ON PLANS.

ALL HEADS SHALL BE QUICK RESPONSE TYPE.

ALL AREAS SHALL BE LIGHT HAZARD OCCUPANCY EXCEPT FOR EQUIPMENT ROOMS, STORAGE ROOMS, MECHANICAL ROOMS, ELECTRICAL ROOMS, KITCHENS AND JANITOR'S CLOSETS WHICH SHALL BE ORDINARY HAZARD GROUP 1.

IN ROOMS WITH ACOUSTICAL TILE CEILINGS, ALL SPRINKLERS SHALL BE CENTERED BOTH WAYS WITHIN CEILING TILES.

PROVIDE HEADS AS REQUIRED FOR COMPLIANCE WITH NFPA-13.

PROVIDE SPRINKLER COVERAGE FPR FIRE STATION ATTIC PER NFPA-13 REQUIREMENTS. THE ATTIC IS INSULATED AT THE ROOF, SUPPLEMENTAL HEAT IS NOT REQUIRED.

SPECIFIC NOTES THIS SHEET:

1. KITCHEN HOOD WITH BUILT IN HOOD SUPPRESSION SYSTEM. SEE 233000.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 FLOOR PLAN FIRE STATION - FIRE PROTECTION
3/16" = 1'-0"

NOVEMBER 3, 2016

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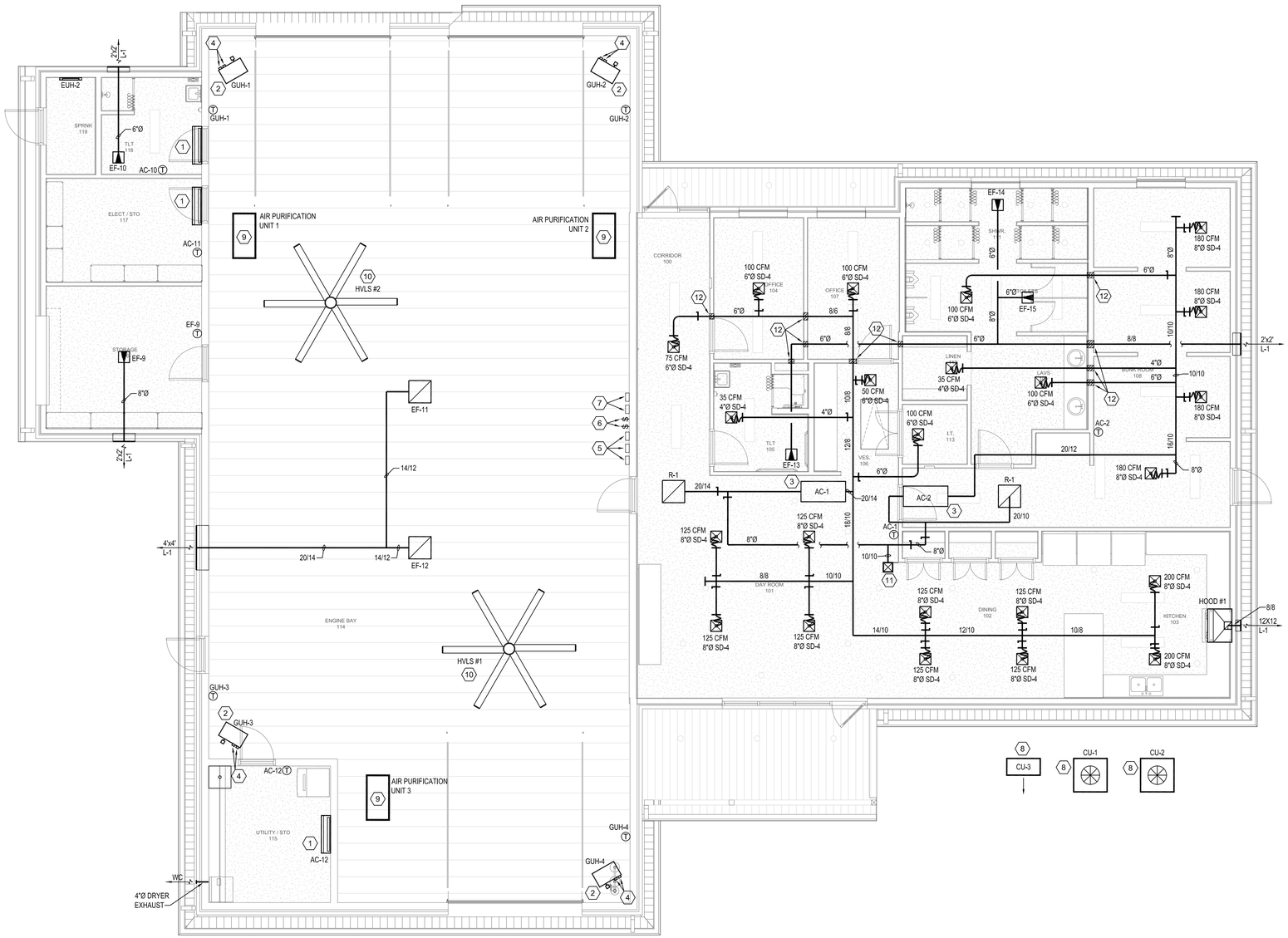
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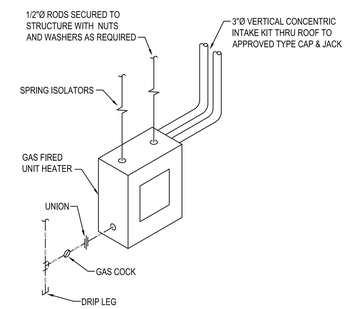


GENERAL NOTES THIS SHEET:

1. DUCT SIZES SHOWN ARE FREE AREA SIZES. SEE SPECIFICATIONS FOR DUCT MATERIALS AND INSULATION.
2. ALL DUCTWORK SHALL BE EXTERNALLY WRAPPED UNLESS NOTED OTHERWISE. INTERNALLY LINE ALL DUCTWORK FOR FIRST 10' OF SUPPLY AND RETURN FROM UNIT.
3. PROVIDE VOLUME DAMPERS AT ALL TAPS INTO MAIN DUCT RUNS.
4. INSULATE THE BACK OF ALL DIFFUSERS. SEE DETAIL.
5. NO FLEX DUCT RUN SHALL EXCEED 8 FEET.
6. FLEX DUCT RUN OUTS TO DIFFUSERS SHALL BE SIZED SAME AS DIFFUSER NECK SIZE. FASTEN THE INNER HELIX AND OUTER JACKET OF FLEX DUCTS TO DIFFUSERS AND DUCTS WITH NYLON TIE WRAPS.
7. PROVIDE FLEXIBLE CONNECTIONS AT SUPPLY AND RETURN CONNECTIONS TO AC UNITS.
8. TOILET EXHAUST FANS TO BE INTERLOCKED WITH ROOM LIGHT SWITCH.
9. ALL NEW DUCTWORK SHALL BE RUN ABOVE CEILINGS AND TIGHT TO STRUCTURE. COORDINATE WITH OTHER TRADES AND MAKE OFFSETS WHERE REQUIRED.
10. PROVIDE ACCESS TO ALL EQUIPMENT, INCLUDING ACCESS PANELS WHERE REQUIRED.
11. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
12. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE WALLS AND PROVIDE FIRE DAMPERS IN ALL RATED WALLS AND FLOORS. PROVIDE FIRE DAMPERS IN ALL OUTSIDE AIR INTAKES.

SPECIFIC NOTES THIS SHEET:

1. WALL MOUNT HEAT PUMP. RUN 1" CONDENSATE TO NEAREST VENT STACK. SEE DETAIL ON SHEET M4.12.
2. GAS FIRED UNIT HEATER. SEE DETAIL ON THIS SHEET.
3. HORIZONTAL AC UNIT IN ATTIC. SEE DETAIL ON SHEET M4.13.
4. 3"Ø INTAKE AIR AND FLUE THRU ROOF TO CONCENTRIC INTAKE KIT.
5. AIR PURIFICATION UNIT CONTROL PANEL.
6. EF-11 & 12 CONTROL SWITCHES.
7. HVLS FAN CONTROLLER.
8. RUN REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. SET UNIT ON PAD. SEE DETAIL ON SHEET M4.13.
9. SUPPORT FROM STRUCTURE WITH 4 1/2" THREADED RODS.
10. SUPPORT PER MANUFACTURER'S RECOMMENDATIONS. BRACE FOR ROTATIONAL INERTIA.
11. 10/10 OUTSIDE AIR INTAKE ON ROOF, GREENHECK FABRA HOOD WITH BIRD SCREEN. PROVIDE FIRE DAMPER AT ROOF PENETRATION AND BACK DRAFT DAMPER IN DUCT.
12. 1 1/2 HOUR FIRE DAMPER AT WALL.



GAS FIRED UNIT HEATER DETAIL
NOT TO SCALE

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

1 FLOOR PLAN FIRE STATION - HVAC
3/16" = 1'-0"

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PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	WASTE	H.W.	C.W.	DESCRIPTION
P1	WC	4"	-	1"	FLOOR MOUNTED FLUSH VALVE WATER CLOSET
P1A	WC	4"	-	1"	ADA FLOOR MOUNTED FLUSH VALVE WATER CLOSET
P2	LAV	1 1/2"	1/2"	1/2"	ADA WALL HUNG LAVATORY
P2A	LAV	1 1/2"	1/2"	1/2"	ADA WALL HUNG LAVATORY
P3	SINK	1 1/2"	1/2"	1/2"	ADA COUNTERTOP LAY-IN LAVATORY
P3A	SINK	1 1/2"	1/2"	1/2"	ADA 1-COMP SS LAY-IN SINK
P4	SS	3"	1/2"	1/2"	2x2 MOLDED PLASTIC FLOOR MOP SINK
P5	SHOWER	2"	1/2"	1/2"	3x3 PRE-FABRICATED SHOWER STALL
P6	UR	1 1/2"	-	3/4"	WALL HUNG FLUSH VALVE URINAL
P6A	UR	1 1/2"	-	3/4"	ADA WALL HUNG FLUSH VALVE URINAL
P8	EYE WASH SAFETY SHOWER	-	1"	1"	COMBINATION EYE WASH & SAFETY SHOWER WITH MIXING VALVE
P8	SINK	1 1/2"	1/2"	1/2"	COUNTER MOUNT UTILITY SINK
P9	DF	1 1/2"	-	1/2"	ELECTRIC BI-LEVEL ADA WATER COOLER

ELECTRIC WATER HEATER SCHEDULE

MARK	GAL.	RECOVERY 80°F RISE	KW	VOLT	PH	MOUNTING	PIPE SIZE	REMARKS
WH-1,2	*47	61	12	208	1	FLOOR	1"	RHEEM ELDS-52
WH-3	120	61	12	208	1	FLOOR	1-1/4"	RHEEM ELDS-120

* PROVIDE HOLDRITE 50-SWHP-W WALL MOUNT KIT. MOUNT 6'-8" A.F.F.

HVLS FAN SCHEDULE

MARK	LOCATION	DIAMETER FT	RPM	ELEC. DATA HP	VOLTS	PH	DESCRIPTION
HVLS 1,2	ENGINE ROOM	8	191	1	208	1	HVLS 8' DIAMETER FAN WITH VFD AND WALL MOUNTED CONTROL PANEL BIG ASS FANS POWERFOIL 8-08

A/C UNIT SCHEDULE

MARK	NOMINAL COOLING/ HEATING BTUH	AUXILLIARY HEATING CAP. KW	OUTSIDE AIR CFM	EXT. S.P. IN W.C.	EVAP. CFM	EVAP. H.P.	EVAP. VOLTS	EVAP. PH.	COND. FLA.	COND. VOLTS	UNIT PH.	DESCRIPTION
AC-1 CU-1	76,000	11.2 50A FUSE	250	0.5	2000	1.5	208	3	23.6 40A FUSE	208	3	R410, DX SPLIT HEAT PUMP WITH HORIZONTAL INDOOR UNIT, AUXILLIARY ELECTRIC HEAT AND OUTDOOR 2-SPEED UNIT. TRANE TWA 073E/ TWE 073E3
AC-2 CU-2	36,000	7.2 40A FUSE	150	0.5	1200	0.5	208	1	17.4 35A FUSE	208	1	R410, DX SPLIT HEAT PUMP WITH HORIZONTAL INDOOR UNIT, AUXILLIARY ELECTRIC HEAT AND OUTDOOR 2-SPEED UNIT. TRANE 4TWWR036/TAM7A0C36

NOTES:
1. REFRIGERANT PIPE SIZES (INSULATE PIPING WITH ¾" ARMAFLEX)
   2 SETS OF 7/8" S : 1/2" L
2. PROVIDE LOW AMBIENT KIT, RUBBER ISOLATORS ON CONDENSING UNIT.
3. SINGLE POINT POWER FOR INDOOR UNITS.

RTU UNIT SCHEDULE

MARK	TOTAL COOLING MBTUH	SENSIBLE COOLING MBTUH	TOTAL CFM	OUTSIDE AIR CFM	HEATING CAP. KW	ENT AIR DB/ WB	LVG AIR DB/ WB	EXT SD IN W.C.	EVAP. H.P.	EVAP. VOLTS	EVAP. PH.	TOTAL UNIT MCA/FUSE	TOTAL UNIT VOLTS	TOTAL UNIT PH.	EER	DESCRIPTION
RTU-1,2	98.1	77.9	3400	400	27	80/67	-	0.5	3.75	208	3	104/110	208	3	12.6	R-410A ROOFTOP UNIT WITH ELECTRIC HEAT, ROOF CURB, VFD, MOTORIZED OUTSIDE AIR DAMPER, 2 STAGE COOLING, HOT GAS REHEAT WITH DEHUMIDIFICATION CYCLE AND HUMIDISTAT, GFI OUTLET, MAIN DISCONNECT. TRANE THC102E

NOTES:
1. CARIER, YORK EQUAL MANUFACTURERS.
2. ALL UNITS SHALL HAVE MODULATING OUTSIDE AIR DAMPERS. DAMPER SHALL CLOSE WHEN UNIT IS DE-ENERGIZED.
3. PROVIDE MERV 13 FILTERS FOR ALL UNITS.

VRF INDOOR UNIT SCHEDULE

MARK	NOMINAL COOLING BTUH	HEATING CAP. BTUH OUT	OUTSIDE AIR CFM	EXT. S.P. IN W.C.	EVAP. CFM	EVAP. WATTS	EVAP. VOLTS	EVAP. PH.	DESCRIPTION
AC- 3,4	12000	12000	0	0	-	40	208	1	WALL MOUNTED HEAT PUMP WITH CONDENSATE PUMP
AC- 12	12000	12000	0	0	-	40	208	1	WALL MOUNTED HEAT PUMP WITH CONDENSATE PUMP POWERED FROM CU-3
AC- 10,11	6000	6000	0	0	-	40	208	1	WALL MOUNTED HEAT PUMP WITH CONDENSATE PUMP POWERED FROM CU-3
AC- 6,7	12000	12000	0	0	-	40	208	1	2'x2' CEILING CASSETTE VRF HEAT PUMP WITH CONDENSATE PUMP
AC- 5,8	18000	18000			-				2'x2' CEILING CASSETTE VRF HEAT PUMP WITH CONDENSATE PUMP
AC- 9	24000	24000			-				3'x3' CEILING CASSETTE VRF HEAT PUMP WITH CONDENSATE PUMP

DIFFUSER GRILLE & REGISTER SCHEDULE

MARK	DESCRIPTION
D	ARCHITECTURAL PLAQUE ALUMINUM CEILING DIFFUSER WITH 4-WAY PATTERN, 24"X24" LAY-IN FRAME, ROUND NECK AND OFF WHITE FINISH. TITUS OMNI
R-1	2' X 2' PERFORATED ALUMINUM RETURN AIR GRILLE WITH 18"X18" SQUARE NECK FOR LAY-IN CEILING TITUS MODEL PAR
SD	ARCHITECTURAL PLAQUE ALUMINUM CEILING DIFFUSER WITH 4-WAY PATTERN, 12"x12" SURFACE MOUNT, ROUND NECK AND OFF WHITE FINISH. TITUS OMNI
L-1	EXTRUDED ALUMINUM LOUVER WITH KYNAR FINISH. RUSKIN ELF6375 DK
TD	THERMAL DIFFUSER WITH 75 DEGREE COOLING AND 68 DEGREE HEATING SET POINT. 2'x2' MODULE LAY-IN CEILING ACCUTHERM THERMAFUSER ST
LD-1	ALUMINUM LINEAR SLOT DIFFUSER WITH 1 -1" SLOT , VOLUME DAMPER AND INSULATED PLENUM TITUS FLOWBAR FL-10

NOTES:
1. PROVIDE PLASTER FRAME FOR DIFFUSERS/GRILLES IN SHEETROCK CEILINGS.
2. PROVIDE PLENUM BOX AT REAR OF ALL RETURN GRILLES SIZED FOR GRILLE NECK FOR CONNECTION OF RETURN DUCTS.
3. INSULATE BACK OF ALL DIFFUSERS. SEE DETAIL ON DRAWINGS OR AT CONTRACTOR'S OPTION PROVIDE FACTORY BACK PAN INSULATION.
4. ADJUST LOCATION OF DIFFUSERS AS REQUIRED FOR ANY LIGHT CONFLICTS.

EXHAUST FAN SCHEDULE

MARK	CFM	EXT. S.P.	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	DATA RPM	DESCRIPTION
EF-1,2,3,4,5,6,7,8,10,13	75	.375	54	120	1	1400	DIRECT DRIVE CEILING MOUNTED EXHAUST FAN WITH, SOLID STATE SPEED CONTROL GREENHECK SP-A190
EF-14,15	150	.375	56	120	1	900	DIRECT DRIVE CEILING MOUNTED EXHAUST FAN WITH, SOLID STATE SPEED CONTROL GREENHECK SP-A200
EF-9	250	.375	67	120	1	1000	DIRECT DRIVE CEILING MOUNTED EXHAUST FAN WITH, SOLID STATE SPEED CONTROL GREENHECK SP-A250
EF-11,12	1000	.25	786	120	1	1450	DIRECT DRIVE CEILING MOUNTED EXHAUST FAN WITH, SOLID STATE SPEED CONTROL GREENHECK SP-A1410

NOTES:
1. TRANSFORMER AND SPEED CONTROLLERS SHALL BE PROVIDED FOR ALL FANS UNLESS NOTED OTHERWISE. MOUNT ON UNIT IN FIIELD.
2. USE THE SPEED CONTROLLER TO BALANCE THE FAN CFM.

GAS FIRED UNIT HEATER SCHEDULE

MARK	SERVICE	BTUH INPUT	CFM	MOTOR H.P.	MOTOR VOLTS	MOTOR PH	DATA RPM	FLUE DIA.	DESCRIPTION
GUH-1,2,3,4	TRUCK BAY	85000	1650	1/8	120	1	1550	3"	93% EFFICIENT CONDENSING FURNANCE GAS UNIT HEATER WITH SEPERATE COMBUSTION, POWERED EXHAUST AND CONCENTRIC COMBUSTION/ EXHAUST KIT PROVIDE OPTONIC 409 SS HEAT EXCHANGER. MODINE PTC-85-SS-01

ELECTRIC UNIT HEATER SCHEDULE

MARK	LOCATION	CFM	MOTOR WT	MOTOR FAN H.P.	DATA VOLTS	DATA PH	DESCRIPTION
EUH-1,2	SPRINKLER	NA	500	-	120	1	WALL MOUNTED BASEBOARD HEATER QMARK 250026NW

OUTDOOR VRF HEAT PUMP

MARK	NOMINAL COOLING BTUH	HEATING CAP. BTUH OUT	COND. UNIT FLA	COND. UNIT VOLTS	COND. UNIT PH.	DESCRIPTION
CU-3	24000	24000	- -	208	1	VRF OUTDOOR TRI-ZONE HEAT PUMP UNIT LG LMU24CHV
CU-4	72000	72000	-	208	3	VRF OUTDOOR HEAT PUMP UNIT LG ARUN072BTE4

NOTES:
1. INSTALL INDOOR AND OUTDOOR AC UNITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. INSULATE ALL REFRIGERANT LINES.
3. ALL PIPING SHALL BE CONCEALED INSIDE THE BUILDING.
4. PROVIDE UNIT DDC CONTROLS AND REMOTE THERMOSTATS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. APPROVED MANUFACTURERS: LG, MITSUBISHI & DAIKIN.
6. RUN REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
7. SEE VRF SYSTEM DETAILS ON M4.12.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—— - ——	COLD WATER	RAG	RETURN AIR GRILLE
—— — — ——	HOT WATER	RD	ROOF DRAIN
—— - - - ——	HOT WATER CIRCULATING	(TYP)	TYPICAL
- - - - - - -	VENT	VTR	VENT THRU ROOF
—— SS ——	SANITARY SEWER	VD	VAMP DAMPER
—— SD ——	STORM DRAIN	DF	DRINKING FOUNTAIN
CO	CLEAN OUT	CONN.	CONNECTION
CFM	CUBIC FEET PER MINUTE	O/A	OUTSIDE AIR
CW	COLD WATER	P-1	PLUMBING RISER DIAGRAM
HW	HOT WATER		GATE VALVE
CLG.	CEILING		CHECK VALVE
DN	DOWN		VALVE IN VERTICAL RISE
EF	EXHAUST FAN		UNION
FD	FLOOR DRAIN		FLOOR DRAIN
HB	HOSE BIBB		HOSE BIBB
RA	RETURN AIR		AIR CHAMBER (10" HIGH PIPE)

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

NOVEMBER 3, 2016

MECHANICAL SCHEDULES
NOT TO SCALE

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STATE OF LOUISIANA
JASON T. CRUMB
License No. 27554
PROFESSIONAL ENGINEER

February 23, 2017

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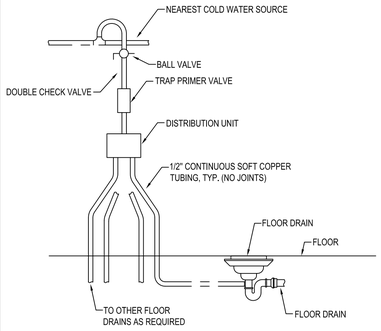
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No.	Description	Date

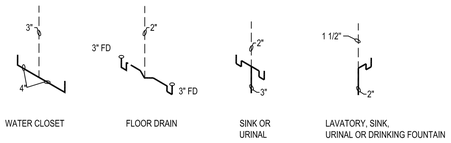
PROJ. #: C16-0058

date
February 23, 2017

sheet
M4.11



TRAP PRIMER DETAIL
NO SCALE



TYPICAL PLUMBING FIXTURE RISERS
NO SCALE

WATER PIPE SIZING TABLE:

WATER CLOSETS

#	PIPE SIZE
1	1"
2	1½"
3-4	1½"
5-10	2"
11-15	2½"

LAVATORIES, SINKS OR SHOWERS

#	PIPE SIZE
1-4	¾"
5-8	1"
9-12	1½"

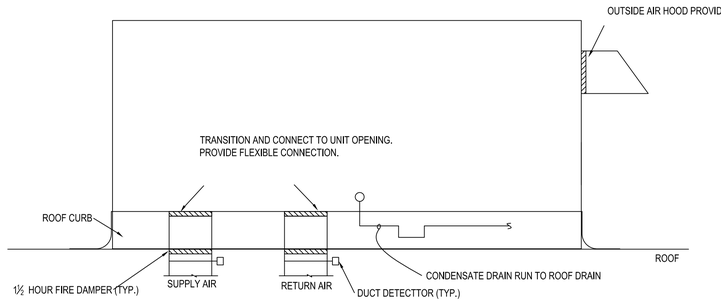
DRINKING FOUNTAINS

#	PIPE SIZE
1-4	¾"

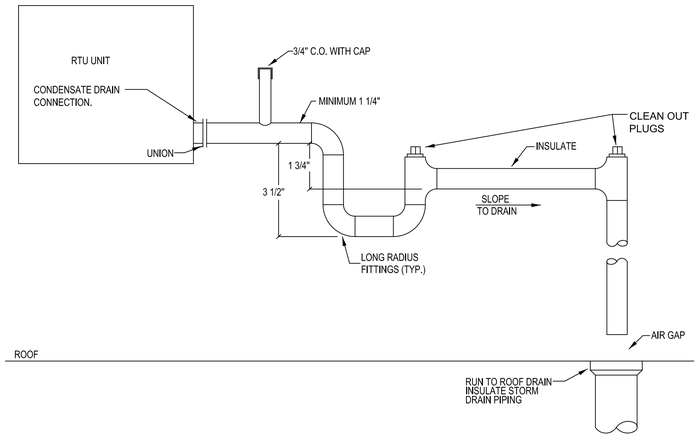
URINALS

#	PIPE SIZE
1-4	¾"
2	1"
3-4	1½"

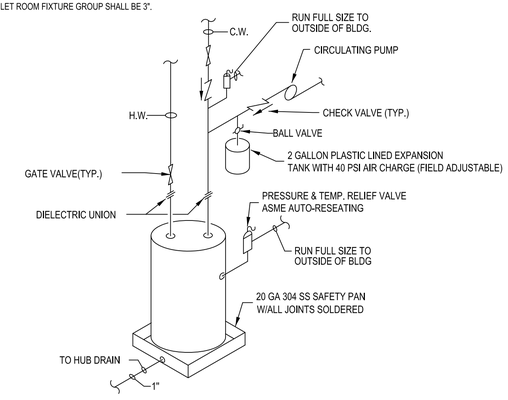
NOTES:
1. ALL WORK SHALL CONFORM TO THE INTERNATIONAL PLUMBING CODE.
2. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS.
3. PROVIDE ACCESS PANELS IN WALLS FOR ALL CLEANOUTS.
4. SIZE WATER PIPING FOR EACH FIXTURE GROUP PER TABLE BELOW.
5. PROVIDE BALL VALVES AT ALL FIXTURE GROUPS TO ISOLATE WATER SUPPLIES.
6. PROVIDE AIR CHAMBERS ON HW & CW AT EACH FIXTURE GROUP.
7. SIZE SEWER AND VENT PIPING PER PLUMBING FIXTURES TABLES.
8. MINIMUM VENT THRU ROOF SHALL BE 2".
9. PROVIDE 3/4" CW TO EACH ICE MACHINE, COFFEE MACHINE AND DRINK MACHINE WITH WALL BOX AND SHUTOFF VALVE.
10. MINIMUM WATER PIPING SIZE TO SAFETY SHOWER IS 1 1/4".
11. MINIMUM WATER PIPING SIZE SHALL BE 3/4".
12. MINIMUM SEWER FOR WATER CLOSET OR TOILET ROOM FIXTURE GROUP SHALL BE 4".
13. MINIMUM VENT FOR WATER CLOSET OR TOILET ROOM FIXTURE GROUP SHALL BE 3".



TYPICAL DOWN DISCHARGE ROOF TOP AIR HANDLING UNIT DETAIL
NO SCALE

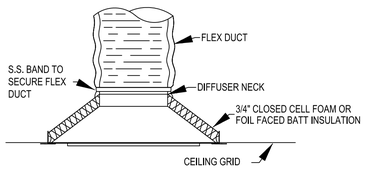


RTU UNIT CONDENSATE DRAIN DETAIL (DRAW-THRU)
NO SCALE



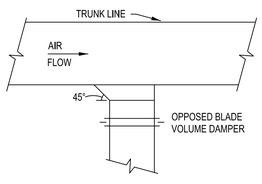
TYPICAL WATER HEATER DETAIL
NO SCALE

NOTES:
1. TYPICAL FOR WH- 1, 2, 3.
2. CIRCULATING PUMP SHALL BE ALL BRONZE 4GPM @3FT. HEAD, 55 WATTS, 120 V WITH AQUASTAT & TIMER. GRUNFUS MODEL UPS 15-10.

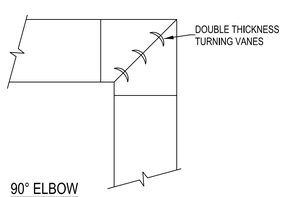


NOTE: ALL SEEMS SHALL BE PROPERLY SEALED AND INSULATION GLUED TO BACK OF DIFFUSER. INSULATION SHALL COVER ENTIRE DIFFUSER AND NECK.

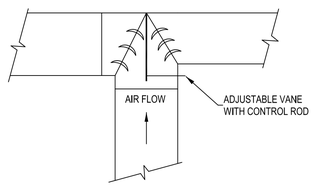
DIFFUSER INSULATION DETAIL
NO SCALE



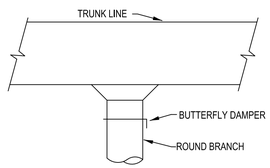
RECTANGULAR BRANCH DUCT TAKE-OFF



90° ELBOW

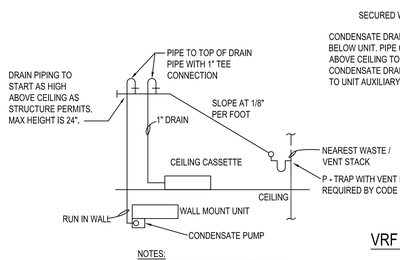


SPLITTER DAMPER



ROUND BRANCH DUCT TAKE-OFF

DUCT DETAILS



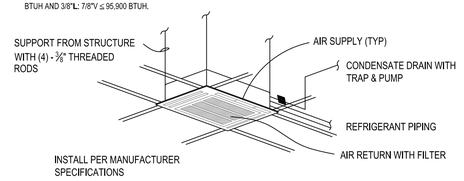
WALL MOUNTED CASSETTE UNIT
NO SCALE

NOTES:
1. MINIMUM 1" DRAIN SIZE PER UNIT.
2. INSULATE ALL CONDENSATE DRAIN LINES.
3. PIPE SIZING: 1-4 AC UNITS 1" PIPE
   5-10 AC UNITS 1 1/4" PIPE
   11-20 AC UNITS 1 1/2" PIPE
   21-50 AC UNITS 2" PIPE

CONDENSATE DRAIN PIPING
NO SCALE

VRF HEAT PUMP INSTALLATION NOTES:

1. INSTALL INDOOR AND OUTDOOR UNITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. INSULATE ALL REFRIGERANT AND CONDENSATE DRAIN PIPING. ALL INDOOR UNITS SHALL HAVE A MINIMUM 1" DRAIN.
3. PROVIDE UNIT DDC CONTROLS AND REMOTE THERMOSTATS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. RUN REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. UTILIZE MANUFACTURER'S COMPUTER SIZING PROGRAM AND INPUT ALL DISTANCES, ELEVATIONS, UNIT CAPACITIES, ETC. FOLLOW THE MANUFACTURER'S PIPING SYSTEM DESIGN LIMITATIONS.
5. TYPE ACR COPPER SHALL BE USED FOR ALL REFRIGERANT PIPING. SOFT COPPER TUBING MAY USED FOR SIZE ⅞" AND BELOW. HARD DRAWN COPPER SHALL BE USED FOR SIZES ABOVE 1/2". PROVIDE EXPANSION LOOPS AND OFFSETS PER MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE BALL VALVES AT EACH ZONE VALVE BOX PORT AND AT INLET PIPING.
7. PROVIDE ADEQUATE CLEARANCE AND MAINTENANCE ACCESS FOR ALL EQUIPMENT ITEMS.
8. INDOOR UNIT PIPING BRANCHES SHALL BE 1/4"**L** : 1/2"V ≤ 19,100 BTUH; 3/8"**L** : 5/8"V ≤ 54,600 BTUH; 3/8"**L**: 3/4"V ≤ 76,400 BTUH AND 3/8"**L**: 7/8"V ≤ 95,900 BTUH.



CASSETTE UNIT

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

MECHANICAL DETAILS
NOT TO SCALE

NOVEMBER 3, 2016

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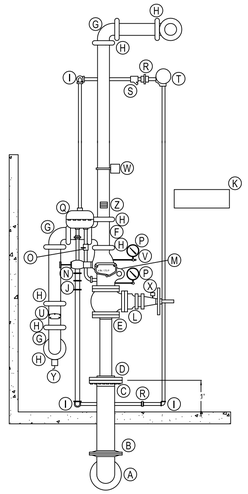
revisions

No.	Description	Date

PROJ. #: C16-0058

date
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sheet
M4.12

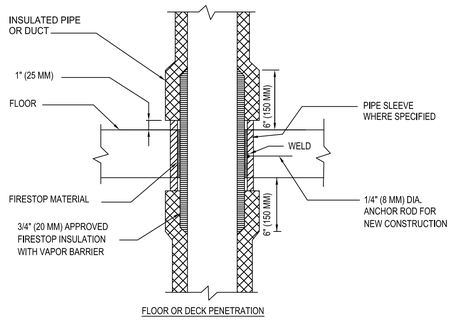


SPRINKLER RISER LEGEND

- (A) MECHANICAL JOINT 90
- (B) MECH. JOINT RETAINER GLAND
- (C) UNIFLANGE
- (D) 6 x 11 SCREWED FLANGE
- (E) 6 x 9 WELDED FLANGE
- (F) GROOVED TEE
- (G) GROOVED ELL 90
- (H) GROOVED COUPLING
- (I) SCREWED ELL 90
- (J) SCREWED TEE
- (K) SPRINKLER CABINET
- (L) 6" O. S. & Y. GATE VALVE
- (M) 6" ALARM CHECK VALVE
- (N) 2" ANGLE VALVE
- (O) 1/2" BALL VALVE
- (P) PRESSURE GAUGE
- (Q) RETARD CHAMBER
- (R) SCREWED UNION
- (S) STRAINER
- (T) WATER MOTOR GONG
- (U) 6" CHECK VALVE
- (V) 1/4" RELIEF VALVE
- (W) WATER FLOW SWITCH
- (X) SUPERVISORY SWITCH
- (Y) 1/2" BALL DRIP VALVE
- (Z) HYDRAULIC NAMEPLATE

TYPICAL SPRINKLER SERVICE ENTRANCE

NO SCALE

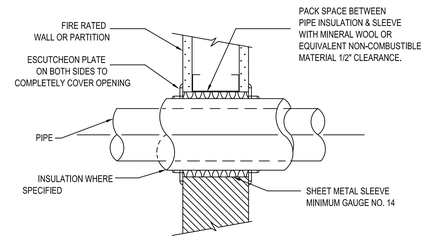


FLOOR OR DECK PENETRATION

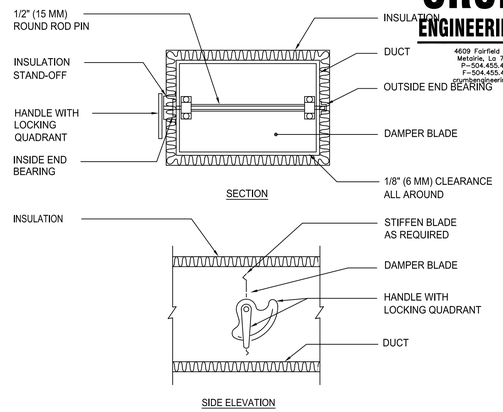
PIPE/DUCT PENETRATION OF FIRE/SMOKE BARRIERS

NOTE:

1. APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION 078413, FIRE STOPPING SYSTEMS.



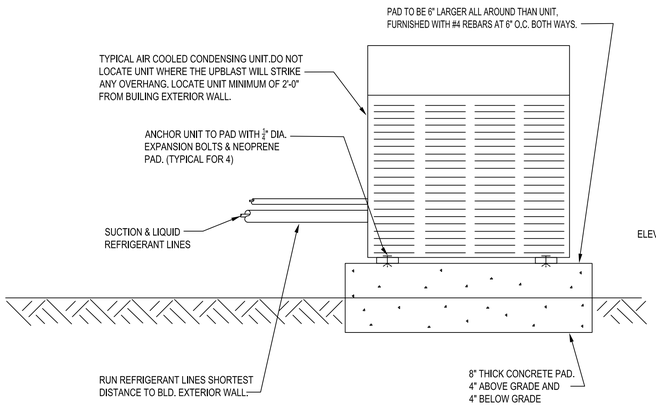
PIPE SLEEVE THRU WALL



VOLUME DAMPER DETAIL

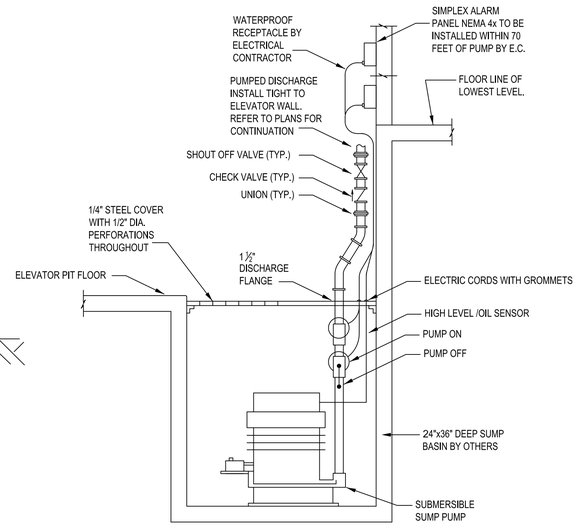
NOTES:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.



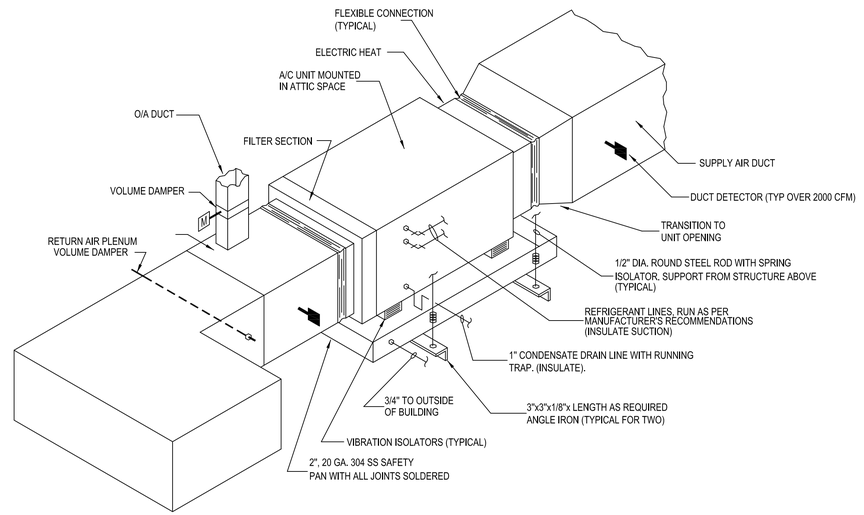
AIR COOLED CONDENSING UNIT

NOT TO SCALE



HYDRAULIC ELEVATOR SUMP PUMP DETAIL

NO SCALE



A/C UNIT INSTALLATION DETAIL

NO SCALE

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

MECHANICAL DETAILS

NOT TO SCALE

NOVEMBER 3, 2016

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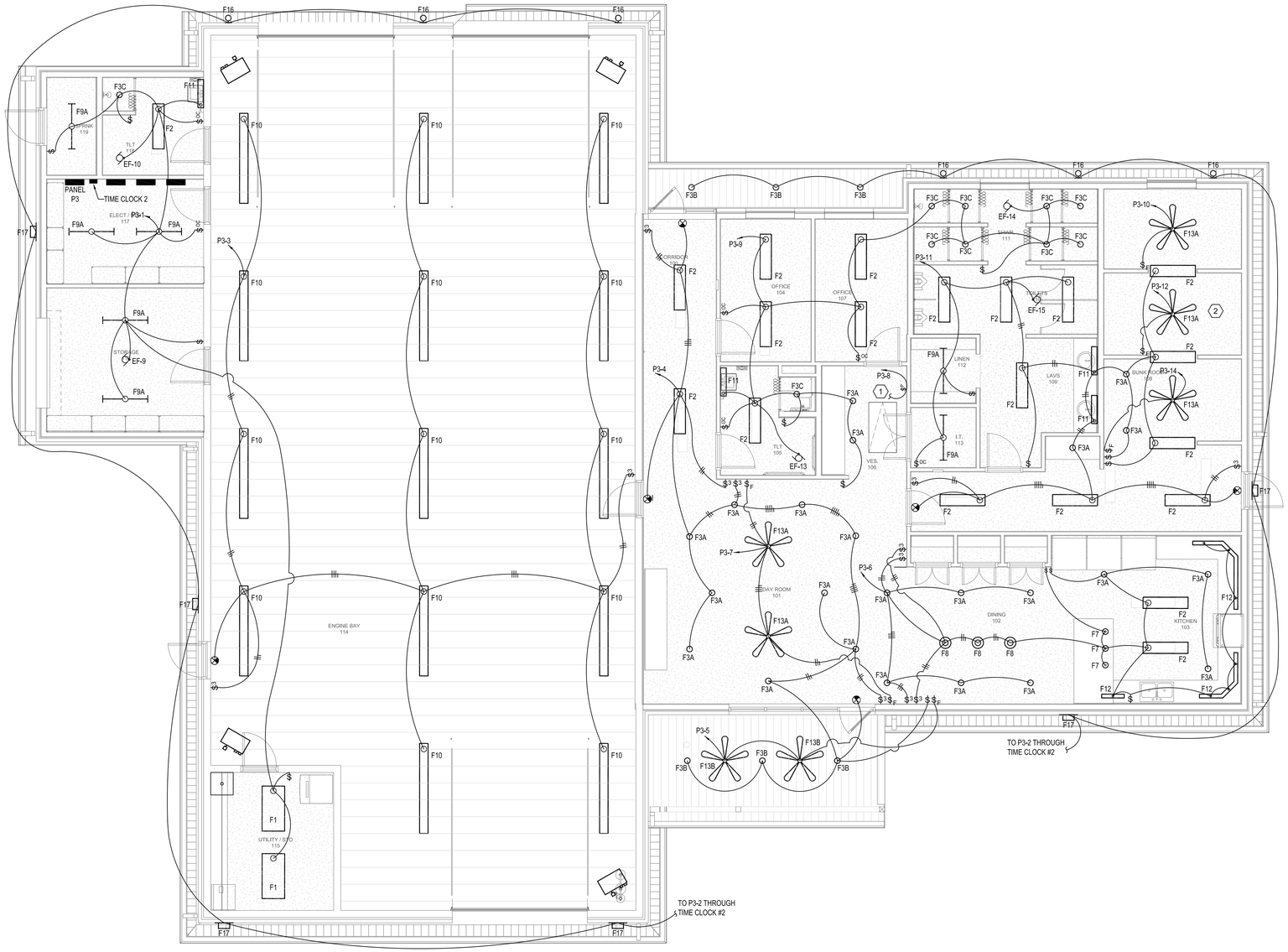
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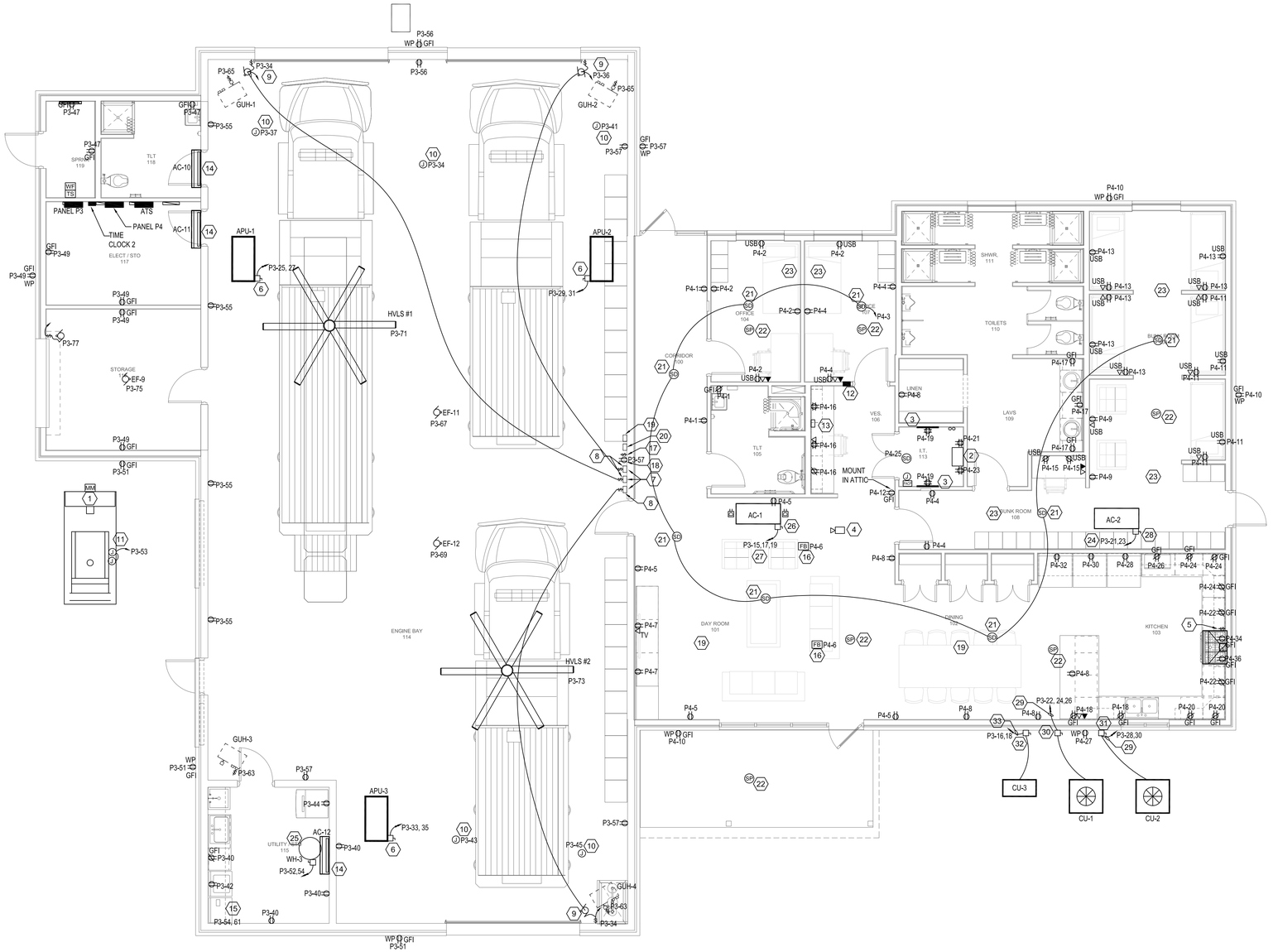
No.	Description	Date

PROJ. # C16-0058

date
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sheet
M4.13


F16
F17
F10
F3C
F11
F9A
SINK
119
TLT
118
EF-10
PANEL
P3
TIME CLOCK 2
ELECT / P3-1
117
F9A
F9A
P3-3
F9A
STORAGE
EF-9
F9A
ENGINE BAY
114
UTILITY / STO
116
F1
F1
TO P3-2 THROUGH
TIME CLOCK #2
F3B
F3B
F3B
CORRIDOR
F2
P3-9
OFFICE
104
OFFICE
107
P3-4
F11
F3C
TLT
105
EF-13
P3-8
F3A
VES.
106
F3A
F3A
F13A
P3-7
F3A
F3A
F3A
DAY ROOM
101
F13A
F3A
F3A
P3-6
F3A
F3A
F3A
F3A
F3A
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P3-5
F13B
F3B
F13B
F3B
F3B
F3C
EF-14
SHWR
111
P3-11
LAVS
EF-15
F9A
LINEN
112
I.T.
113
F9A
LAVS
109
F11
F3A
F3A
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DINING
102
F3A
F3A
F3A
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F3A



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GENERAL NOTES THIS SHEET:

1. REFER TO ARCHITECT'S FLOOR PLANS AND ARCHITECT'S ELEVATIONS FOR RECEPTACLE AND OUTLET LOCATIONS.
2. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT. DO NOT SHARE NEUTRAL CONDUCTORS.
3. ALL CONDUIT SHALL BE 1/2" WITH 2#12 AWG & 1#12 GRD UNLESS NOTED OTHERWISE.
4. GROUNDING SHALL BE IN ACCORDANCE WITH NEC ART. 250.
5. PROVIDE POWER FOR ALL EQUIPMENT SHOWN ON MECHANICAL AND ARCHITECTURAL FLOOR PLANS.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE NEC.

SPECIFIC NOTES THIS SHEET:

1. 100 KW NATURAL GAS GENERATOR. OWNER FURNISHED. CONTRACTOR INSTALLED.
2. IT RACK. ROUTE ALL WIRING FROM OUTLETS TO RACK.
3. 4x8 PLYWOOD BACK BOARD.
4. WIFI ACCESS POINT. NETGEAR WNDAP660 OR EQUAL.
5. SWITCH FOR GARBAGE DISPOSAL.
6. AIR PURIFICATION UNIT, 1HP, 208V, 1Ø, PROVIDE 30A, 2P, DS. WIRE TO REMOTE SENSOR AND CONTROLLER.
7. APU CONTROLLER.
8. OVERHEAD DOOR CONTROLLER.
9. 120V, 1Ø, 1HP MOTOR FOR OVERHEAD DOOR. PROVIDE TOGGLE DISCONNECT SWITCH. WIRE DOOR CONTROLLER AND SENSOR.
10. DUPLEX RECEPTACLE FOR BATTERY CHARGING MOUNTED ON CONDUIT. EXACT LOCATION AND HEIGHT TO BE DETERMINED IN FIELD. ASSUME 12' A.F.F.
11. 120V POWER FOR GENERATOR CHARGER AND CONTROLS.
12. GENERATOR REMOTE ANNUNCIATOR.
13. CABINET FOR RADIO SYSTEM. VERIFY EXACT LOCATION. RUN LMR 400 ANTENNA CABLE (3 CABLES EACH) FROM STATION ALERT TO ANTENNA.
14. PROVIDE MULTI-CONDUCTOR CABLE - 4-16 GA. FROM OUTDOOR UNIT TO INDOOR UNIT.
15. ELECTRIC DRYER, 3⁄C, 2 #10 AWG & 1 #10 GRD.PROVIDE RECEPTACLE TO MATCH CORD.
16. FLOOR BOX WITH DATA & POWER OUTLETS. RUN THROUGH SLAB TO FLOOR BOX.
17. EF-11 POWER SWITCH. WIRE TO FAN.
18. EF-12 POWER SWITCH. WIRE TO FAN.
19. HVLS #1 CONTROLLER. WIRE TO FAN.
20. HVLS #2 CONTROLLER. WIRE TO FAN.
21. 120V SMOKE DETECTOR.
22. SPEAKER FOR STATION ALERT. RUN WIRE BACK TO AMPLIFIER.
23. PROVIDE AFCI BREAKER FOR ALL RECEPTACLES THIS ROOM.
24. NOT USED
25. 1"C, 2 #4 AWG & 1 #8 GRD. RUN THROUGH 100A, 2P, 208V, NEMA-1 DS. PROVIDE RECEPTACLE FOR CIRCULATING PUMP FROM CIRCUIT P3-40.
26. 60A, 3P, 208V, NEMA-1 DS.
27. ¾"C 3 #8 AWG & 1 #10 GRD.
28. 60A, 2P 208V, NEMA-1 DS.
29. ¾"C, 2 #8 AWG & 1 # 10 GRD.
30. 60A, 3P, 208V, NEMA-3R DS.
31. 60A, 2P, 208V, NEMA-3R DS.
32. 30A, 2P 208V, NEMA-3R DS
33. ½"C, 2 #12 AWG & 1 #12 GRD.

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

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STATE OF LOUISIANA
JASON T. CRUMB
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PROFESSIONAL ENGINEER

February 23, 2017

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Scales stated hereon are valid on the original drawings only. Contractor shall carefully review all dimensions and conditions shown and report to the architect any errors, inconsistencies, or omissions discovered.

These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

St. Tammany Fire Protection District No.1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
CRUMB ENGINEERING LLC
4609 FAIRFIELD STREET
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revisions

No.	Description	Date

PROJ. #: C16-0058

date
February 23, 2017

sheet
E3.21

NOVEMBER 3, 2016

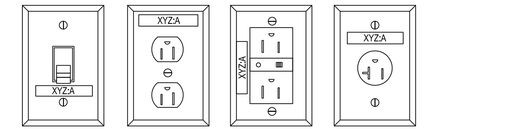
1 FLOOR PLAN FIRE STATION - POWER AND SPECIAL SYSTEMS
3/16" = 1'-0"

ELECTRICAL/TELECOM LEGEND

SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION
S_a	SINGLE POLE SWITCH	LETTER DENOTES FIXTURE CONTROL		DUPLEX RECEPTACLE MTD. 18" ABOVE FLOOR
S^3_a	THREE WAY SWITCH			DUPLEX RECEPTACLE MTD. ABOVE WORK SURFACE
S^{WP}	WEATHERPROOF TOGGLE SWITCH		WP	DUPLEX RECEPTACLE, WEATHERPROOF
S^3_D	DIMMER SWITCH			FLOOR OUTLET
S_F	CEILING FAN SWITCH			CEILING OUTLET
S^{OC}	OCCUPANCY SENSOR SWITCH			SPECIAL OUTLET
S^T_a	TIMER SWITCH	LETTER DENOTES FIXTURE CONTROL	GFI	DUPLEX RECEPTACLE W/GROUND FAULT INTERRUPTER
	HOME RUN TO PANEL	CROSS LINES DENOTE NUMBER OF CONDUCTORS WHEN MORE THAN TWO		QUADRAPLEX RECEPTACLE MTD. 18" ABOVE FLOOR
	CONCEALED WIRING			DATA/CABLE OUTLET (WALL)
J	DISCONNECT SWITCH W/VISIBLE BLADES			TELEPHONE OUTLET (WALL)
M S	ELECTRIC MOTOR W/APPROVED DISCONNECT SWITCH			TELEPHONE OUTLET (FLOOR)
J	JUNCTION BOX			TELEPHONE/DATA OUTLET (WALL)
S^P	PILOT LIGHT SWITCH		USB	RECEPTACLE WITH USB CHARGER

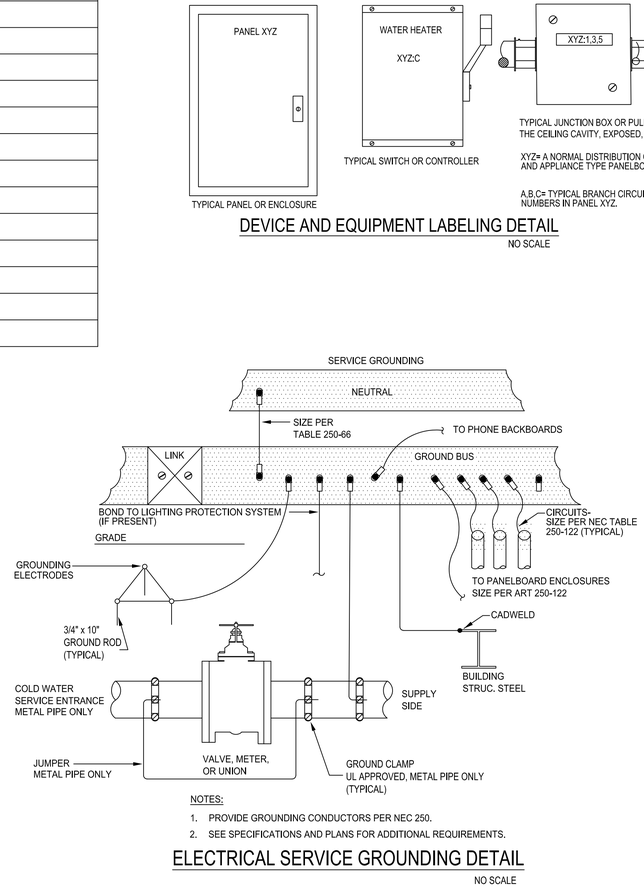
FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION, MOUNT 48" A.F.F.
F	STROBE, MOUNT 80" A.F.F.
F	SPEAKER/STROBE, MOUNT 80" A.F.F.
H	HEAT DETECTOR
SD	SMOKE DETECTOR
SP	SPEAKER
C OR CM	CONTROL MODULE
D	DUCT DETECTOR
R	RELAY
H	HORN/STROBE
FACP	FIRE ALARM CONTROL PANEL
ANN	REMOTE ANNUNCIATOR
MM	MONITOR MODULE
GRA	GENERATOR REMOTE ANNUNCIATOR
WF	WATERFLOW SWITCH
TS	TAMPER SWITCH
	ELECTROMAGNETIC DOOR HOLD



DEVICE AND EQUIPMENT LABELING DETAIL

NO SCALE

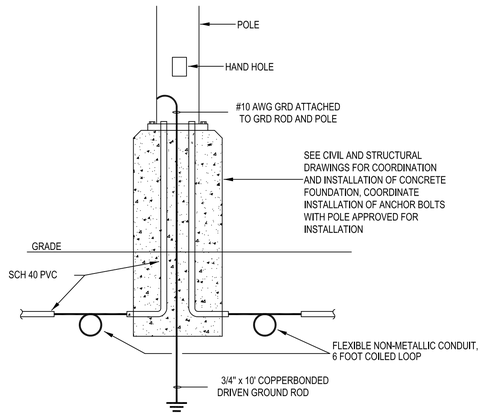


NOTES:

1. PROVIDE GROUNDING CONDUCTORS PER NEC 250.
2. SEE SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS.

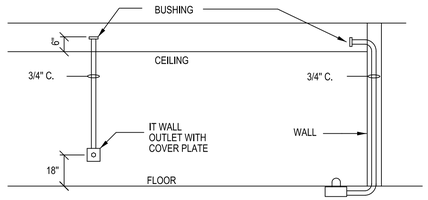
ELECTRICAL SERVICE GROUNDING DETAIL

NO SCALE



LIGHTING POLE FOUNDATION DETAIL

NO SCALE



TELEPHONE OUTLET DETAIL

NO SCALE

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	LAMP
F1	2'x4' RECESSED LED TROFFER WITH UNIVERSAL BALLAST. COOPER 24GR-LD4-38-A125-UNV-L835-1	35W LED 120V
F2	1'x4' LENSED LED TROFFER WITH UNIVERSAL BALLAST COOPER 14GR-LD4-28-A125-UNV-L835-1	28W LED 120V
F3A	RECESSED 6" LED DOWN LIGHT HALO PD6-12-ED010-PDM6-935-61V-H-WF	23W LED 120V
F3B	RECESSED 6" LED DOWNLIGHT EXTERIOR HALO SLD612-8-35-WH-UNV	23W LED 120V
F3C	RECESSED 6" LED DOWNLIGHT WET LOCATION LENSED SHOWERLIGHT. HALO SLD612-8-35-WH-UNV	15W LED 120V
F4	RECESSED 4" LED ADJUSTABLE DOWNLIGHT. HALO LDA4A-13-9-35-LAR25NF-4LAO-H-WF	22W LED 120V
F5	48" LED LINEAR PENDANT NEORAY S145-DP-1-35-SC48-ETG-0048-1-D-1-DD-1-S	LED 120V
F6	4'x36" SUSPENDED LED PENDANT VISA LIGHTING CP2022-L35K-MVOLT-L35K-WIDE-BSIL-56" VISA LIGHTING CP2022-L35K-MVOLT-L35K-WIDE-BSIL-64" VISA LIGHTING CP2022-L35K-MVOLT-L35K-WIDE-BSIL-72" VISA LIGHTING CP2022-L35K-MVOLT-L35K-WIDE-BSIL-80" ***FOUR FIXTURES ARE ALL THE SAME EXCEPT DIFFERENT MOUNTING HEIGHTS. ARCHITECT TO COORDINATE LOCATION OF DIFFERENT HEIGHTS IN FIELD.	120V
F7	9" DIAMETER LED "TRISHA" PENDANT TMS LIGHTING TRI+9-15LED-C36-35K+120-BR	15W LED 120V
F8	16" DIAMETER LED "CALVIN" PENDANT TMS LIGHTING CAL-I-16-17LED-C36-35K-120-BR	LED 120V
F9A	4' LED UTILITY STRIP. METALUX 4SNLED-LD4-30SL-LC-UNV-L835-CD1-U	25W LED 120V
F9B	3' LED UTILITY STRIP. METALUX 2SNLED-LD4-22SL-LC-UNV-L835-CD1-U	22W LED 120V
F10	8' LED SHOP LIGHT WITH CHAIN HANGING KIT AND WIRE GUARD. METALUX 8TSNLED-LD4-88SL-UNV-L835-CD1-U-AYC-WG4	73W LED 120V
F11	LED VANITY AND STAIR LIGHT (USE2' AT VANITY AND 4' AT STAIR) METALUX 2SWLED-LD4-20SL-LW-UNV-L835-CD1-SVPD2-U METALUX 4SWLED-LD4-28SL-LW-UNV-L8XX-CD1-SVPD2-U	26W LED 120V
F12	UNDER CABINET LIGHT. LIGHTOLIER LP100	18W LED 120V
F13A	42" CEILING FAN, CONTRACTOR SERIES, BRUSHED STEEL MINKA AIRE F546-BS **STYLE TO MATCH CEILING FAN F13C	77.01W LED 120V
F13B	52" SIMPLE OUTDOOR CEILING FAN, SILVER MINKA AIRE F787-SL	120V
F13C	52" CEILING FAN, CONTRACTOR SERIES, BRUSHED STEEL MINKA AIRE F546-BS **STYLE TO MATCH CEILING FAN F13A	120V
F14	LED SURFACE MOUNTED ELEVATOR PIT LIGHT KILLARK VSL-16-30-V1-H-G	16W LED 120V
F15	EXTERIOR VERTICAL WALL SCONCE. VISA OW1221-L35K-L-BSIL-BSIL	15W LED 120V
F16	EXTERIOR VERTICAL WALL SCONCE VISA OW1335-L35K-L-BSIL-BSIL	19W LED 120V
F17	WALL MOUNTED LED WALL PACK LUMARK LD-WP-GL-4A-120V-ED-BK	40W LED 120V
F18	LED SURFACE MOUNT WALL FORM KIM WF20-S-93KLUV-CC	LED 120V
F19	25' ALUMINUM TAPERED6"Ø POLE WITH # OF FIXTURES AS SHOWN ON PLANS. FIXTURES TO BE LED SHOEBOX STYLE WITH TYPE III DISTRIBUTION AND CUSTOM COLOR BY ARCHITECT. KIM LTRA25-6188-CC/ARX16-3-3-45-UV-CC-SST-A30-FGL	138W LED 120V
F20	INGROUND LED UPLIGHT WITH 15° DIRECTIONAL ADJUSTMENT AND SLIP RESISTANT LENS GREENLEE XIG-B-LED-19-350-WW-UE-NFL25-NA-TR-SRL	22W LED 120V
⊗	LED EDGE LIT EXIT SIGN. COOPER ES7-70-R-120V-C	LED 120V

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February 23, 2017

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These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

St. Tammany Fire Protection District No.1
NEW FIRE STATION & HEADQUARTERS BUILDING
522 Robert Blvd. Slidell LA, 70458

mep engineer:
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METAIRIE, LA 70006
504.455.4450

landscape, civil, and structural engineer:
KYLE ASSOCIATES LLC
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revisions

No.	Description	Date

PROJ. #: C16-0058

date
February 23, 2017

sheet
E4.11

NOVEMBER 3, 2016

ELECTRICAL SCHEDULES AND DETAILS

NOT TO SCALE

PROJECT NAME: SLIDELL FIRE STATION DATE: 1/20/2017

CE JOB #:

PANEL: P1 LOCATION: HQ-EQP. ROOM

VOLTAGE: 120/208 PHASE: 3, 4 WIRE MOUNTING: SURFACE MOUNT

BUS AMPS: 600

MAIN OVERCURRENT DEVICE TYPE: CB

MAIN OVERCURRENT AMPS: 600

REMARKS: WITH GROUND BUS, 10000 AIC, TVSS, 100A SUBFEED BKR

E= HVAC EQUIP. LOAD COOLING
L= LIGHTING LOAD
R= RECEPTACLE LOAD
W= WATER HEATER
K= KITCHEN EQ.
M= MISC EQ.
S= SPARES
H = HVAC EQUIP LOAD HEATING

CKT NO.	CIRCUIT NAME	BREAKER AMP	BREAKER POLE	LOAD VA	USE	PH	USE	LOAD VA	BREAKER AMP	BREAKER POLE	CIRCUIT NAME	CKT NO.
1	EXT LTS	20	1	1050	L	A	L	300	20	1	LTS	2
3	LTS	20	1	900	L	B	L	1250	20	1	LTS	4
5	LTS	20	1	1300	L	C	L	1000	20	1	LTS	6
7	FANS	20	1	750	L	A	L	300	20	1	LTS	8
9	LTS	20	1	700	L	B	L	1200	20	1	LTS	10
11	EXT LTS	20	1	1500	L	C	E	9000	110	3	RTU-1	12
13	EXT LTS	20	1	1000	L	A	E	9000				14
15	CU-4	40	3	2500	E	B	E	9000				16
17				2500	E	C	E	9000	110	3	RTU-3	18
19				2500	E	A	E	9000				20
21	RECEPTACLES	20	1	1000	R	B	E	9000				22
23	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	24
25	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	26
27	RECEPTACLES	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	28
29	RECEPTACLES	20	1	1000	R	C	R	500	20	1	ELEVATOR 120V	30
31	RECEPTACLES	20	1	1000	R	A	M	6000	125	3	ELEVATOR-SHUNT TRP BKR	32
33	GENERATOR	20	1	500	R	B	M	6000				34
35	WATER HEATER	80	2	6000	W	C	M	6000				36
37				6000	W	A	R	500	20	1	RECEPTACLES	38
39	RECEPTACLES	20	1	1000	R	B	E	100	20	2	AC UNITS	40
41	RECEPTACLES	20	1	1000	R	C	E	100				42
43	RECEPTACLES	20	1	1500	R	A	R	1000	20	1	RECEPTACLES	44
45	RECEPTACLES	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	46
47	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	48
49	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	50
51	RECEPTACLES	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	52
53	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	54
55	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	56
57	RECEPTACLES	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	58
59	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	60
61	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	62
63	REF	20	1	1000	R	B	R	1,000	20	1	RECEPTACLES	64
65	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	66
67	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	68
69	RANGE-SHUNT TRIP BKR	20	1	50C	R	B	R	1000	20	1	RECEPTACLES	70
71	HOOD	20	1	75C	S	C	R	1000	20	1	RECEPTACLES	72
73	WATER HEATER	80	2	6000	W	A	R	1000	20	1	RECEPTACLES	74
75				6000	W	B	R	1000	20	1	RECEPTACLES	76
77	DF	20	1	50C	M	C	R	1000	20	1	RECEPTACLES	78
79	DF	20	1	50C	M	A	S	20C	20	1	SPARE	80
81	SPARE	20	1	20C	S	B	S	20C	20	1	SPARE	82
83	SPARE	20	1	20C	S	C	S	20C	20	1	SPARE	84

	PHASE A	PHASE B	PHASE C	OT CONN.
TOTAL LOAD (VA)	58500	51,550	64550	174300

TOTAL CONNECTED LOAD KW 174.3

PROJECT NAME: SLIDELL FIRE STATION DATE: 1/20/2017

CE JOB #:

PANEL: P3 LOCATION: FS-ELECTRICAL ROOM

VOLTAGE: 120/208 PHASE: 3, 4 WIRE MOUNTING: SURFACE MOUNT

BUS AMPS: 600

MAIN OVERCURRENT DEVICE TYPE: CB

MAIN OVERCURRENT AMPS: 500

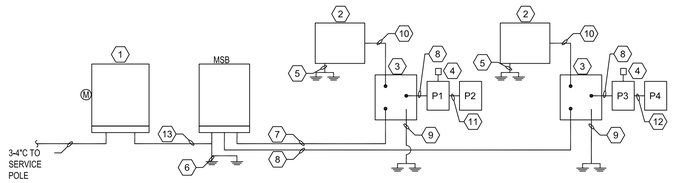
REMARKS: WITH GROUND BUS, 10000 AIC, TVSS

E= HVAC EQUIP. LOAD COOLING
L= LIGHTING LOAD
R= RECEPTACLE LOAD
W= WATER HEATER
K= KITCHEN EQ.
M= MISC EQ.
S= SPARES
H = HVAC EQUIP LOAD HEATING

CKT NO.	CIRCUIT NAME	BREAKER AMP	BREAKER POLE	LOAD VA	USE	PH	USE	LOAD VA	BREAKER AMP	BREAKER POLE	CIRCUIT NAME	CKT NO.
1	LTS	20	1	500	L	A	L	800	20	1	EXT LTS	2
3	LTS	20	1	1500	L	B	L	700	20	1	LTS	4
5	FANS	20	1	750	L	C	L	1300	20	1	LTS	6
7	FANS	20	1	750	L	A	L	500	20	1	ATTIC LTS	8
9	LTS	20	1	600	L	B	L	375	20	1	FAN	10
11	LTS	20	1	1000	L	C	E	375	20	1	FAN	12
13	EXT LTS	20	1	1000	L	A	E	375	20	1	FAN	14
15	AC-1	50	3	4000	E	B	E	2000	40	3	CU-3	16
17				4000	E	C	E	2000				18
19				4000	E	A	E	2000				20
21	AC-2	40	2	3500	E	B	E	2800	40	3	CU-1	22
23				3500	E	C	R	2800				24
25	AFU	20	2	1000	V	A	R	2800				26
27				1000	V	B	R	1800	35	2	CU-2	28
29	AFU	20	2	1000	V	C	R	1800				30
31				1000	V	A	M	200	20	1	SPARE	32
33	AFU	20	2	1000	V	B	M	750	20	1	DOOR	34
35				1000	V	C	M	750	20	1	DOOR	36
37	TRUCK CHARGER	20	1	500	V	A	M	750	20	1	DOOR	38
39	TRUCK CHARGER	20	1	500	V	B	R	1000	20	1	RECEPTACLES	40
41	TRUCK CHARGER	20	1	500	V	C	R	500	20	1	WASHER	42
43	TRUCK CHARGER	20	1	500	V	A	R	1000	20	1	ICE MACHINE	44
45	TRUCK CHARGER	20	1	500	V	B	M	10800	150	3	PANEL P4	46
47	RECEPTACLES	20	1	1000	R	C	M	11100				48
49	RECEPTACLES	20	1	1000	R	A	M	10550				50
51	RECEPTACLES	20	1	1000	R	B	W	6000	90	2	WATER HEATER	52
53	GENERATOR	20	1	250	V	C	W	6000				54
55	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	56
57	RECEPTACLES	20	1	1000	R	B	S	200	20	1	SPARE	58
59	DRYER	30	2	1250	V	C	S	200	20	1	SPARE	60
61				1250	V	A	S	200	20	1	SPARE	62
63	UNIT HEATER	20	1	200	H	B	S	200	20	1	SPARE	64
65	UNIT HEATER	20	1	200	H	C	S	200	20	1	SPARE	66
67	EF	20	1	500	E	A	S	200	20	1	SPARE	68
69	EF	20	1	500	E	B	S	200	20	1	SPARE	70
71	HVLS	20	1	1200	E	C	S	200	20	1	SPARE	72
73	HVLS	20	1	1200	E	A	S	200	20	1	SPARE	74
75	SPARE	20	1	200	S	B	S	200	20	1	SPARE	76
77	SPARE	20	1	200	S	C	S	200	20	1	SPARE	78
79	SPARE	20	1	200	S	A	S	200	20	1	SPARE	80
81	SPARE	20	1	200	S	B	S	200	20	1	SPARE	82
83	SPARE	20	1	200	S	C	S	200	20	1	SPARE	84

	PHASE A	PHASE B	PHASE C	OT CONN.
TOTAL LOAD (VA)	35175	45,125	46C75	128375

TOTAL CONNECTED LOAD KW 126.375



FEEDER DIAGRAM NOTES:

1. ENTERGY SERVICE TRANSFORMER, ESTIMATED 300KW, 208V, 3Ø, 4W SERVICE
2. 100KW NATURAL GAS GENERATOR WITH 400A BREAKER.
3. 600A, 4-POLE ATS.
4. 20A, 1P ELECTRONIC PROGRAMMABLE TIME CLOCK.
5. #2 GRD TO 2x ¾" x10' COPPER BONDED GROUND ROD.
6. #2/0 GRD TO 2x ¾" x10' COPPER BONDED GROUND ROD.
7. 2 SETS OF 3"C, 4-350KCMIL & 1 #1/0 GRD IN EACH.
8. 2 SETS OF 2½"C, 4-250KCAIL & 1 #1/0 GRD IN EACH.
9. #1/0 GRD TO 2x ¾" x10' COPPER BONDED GROUND ROD.
10. 2 SETS OF 2"C, 4-3/0 AWG & 4 GRD IN EACH.
11. 1½"C, 4 #3 AWG & 1 #8 GRD.
12. 2"C, 5 #1/0 AWG & 1 #6 GRD.
13. 3 SETS OF 4"C, 4-600KCMIL & 1 #2/0 GRD IN EACH.

ELECTRICAL FEEDER DIAGRAM
NOT TO SCALE

REVIEWED FOR
STATE FIRE MARSHAL
AS PER REVIEW LETTER
BY: WILLIAM D. JONES, ARCHITECT, CBO

PROJECT NAME: SLIDELL FIRE STATION DATE: 1/20/2017

CE JOB #:

PANEL: P2 LOCATION: SERVER ROOM

VOLTAGE: 120/208 PHASE: 3, 4 WIRE MOUNTING: SURFACE MOUNT

BUS AMPS: 200

MAIN OVERCURRENT DEVICE TYPE: CB

MAIN OVERCURRENT AMPS: 100

REMARKS: WITH GROUND BUS, 10000 A.C, TVSS, 200% NEUTRAL

E= HVAC EQUIP. LOAD COOLING
L= LIGHTING LOAD
R= RECEPTACLE LOAD
W= WATER HEATER
K= KITCHEN EQ.
M= MISC EQ.
S= SPARES
H = HVAC EQUIP LOAD HEATING

CKT NO.	CIRCUIT NAME	BREAKER AMP	BREAKER POLE	LOAD VA	USE	PH	USE	LOAD VA	BREAKER AMP	BREAKER POLE	CIRCUIT NAME	CKT NO.
1	RECEPTACLES	20	1	1008	R	A	E	100	20	2	AC UNITS	2
3	RECEPTACLES	20	1	1008	R	B	E	100				4
5	RECEPTACLES	20	1	1008	R	C	S	200	20	1	SPARE	6
7	RECEPTACLES	20	1	1008	R	A	S	200	20	1	SPARE	8
9	RECEPTACLES	20	1	1008	R	B	S	200	20	1	SPARE	10
11	RECEPTACLES	20	1	1008	R	C	S	200	20	1	SPARE	12
13	RECEPTACLES	20	1	1008	R	A	S	200	20	1	SPARE	14
15	RECEPTACLES	20	1	1008	R	B	S	200	20	1	SPARE	16
17	SPARE	20	1	200	S	C	S	200	20	1	SPARE	18
19	SPARE	20	1	200	S	A	S	200	20	1	SPARE	20
21	SPARE	20	1	200	S	B	S	200	20	1	SPARE	22
23	SPARE	20	1	200	S	C	S	200	20	1	SPARE	24
25	SPARE	20	1	200	S	A	S	200	20	1	SPARE	26
27	SPARE	20	1	200	S	B	S	200	20	1	SPARE	28
29	SPARE	20	1	200	S	C	S	200	20	1	SPARE	30
31	SPARE	20	1	200	S	A	S	200	20	1	SPARE	32
33	SPARE	20	1	200	S	B	S	200	20	1	SPARE	34
35	SPARE	20	1	200	S	C	S	200	20	1	SPARE	36
37	SPARE	20	1	200	S	A	S	200	20	1	SPARE	38
39	SPARE	20	1	200	S	B	S	200	20	1	SPARE	40
41	SPARE	20	1	200	S	C	S	200	20	1	SPARE	42

	PHASE A	PHASE B	PHASE C	OT CONN	DEMAND	DEM. LOAD
HVAC COOLING LOAD (VA)	100	100	0	200	1	200
LIGHTING LOAD (VA)	0	0	0	0	1	0
RECEPTACLE LOAD (VA)	3000	3000	2000	8000	1	8000
WATER HEATER LOAD (VA)	0	0	0	0	1	0
KITCHEN EQ. LOAD (VA)	0	0	0	0	1	0
MISC EQ. LOAD (VA)	0	0	0	0	1	0
SPARES (VA)	2000	2000	2400	6400	1	6400
HVAC HEATING LOAD (VA)	0	0	0	0	1	0
TOTAL LOAD (VA)	5100	5100	4400	14600		14600

TOTAL CONNECTED LOAD KW 14.6 TOTAL DEMAND LOAD KW 14.6

PROJECT NAME: SLIDELL FIRE STATION DATE: 1/20/2017

CE JOB #:

PANEL: P4 LOCATION: FS-ELECTRICAL ROOM

VOLTAGE: 120/208 PHASE: 3, 4 WIRE MOUNTING: SURFACE MOUNT

BUS AMPS: 200

MAIN OVERCURRENT DEVICE TYPE: CB

MAIN OVERCURRENT AMPS: 150

REMARKS: WITH GROUND BUS, 10000 A.C

E= HVAC EQUIP. LOAD COOLING
L= LIGHTING LOAD
R= RECEPTACLE LOAD
W= WATER HEATER
K= KITCHEN EQ.
M= MISC EQ.
S= SPARES
H = HVAC EQUIP LOAD HEATING

CKT NO.	CIRCUIT NAME	BREAKER AMP	BREAKER POLE	LOAD VA	USE	PH	USE	LOAD VA	BREAKER AMP	BREAKER POLE	CIRCUIT NAME	CKT NO.
1	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	2
3	120V SMOKE DET	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	4
5	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	6
7	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	8
9	RECEPTACLES	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	10
11	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	12
13	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	14
15	RECEPTACLES	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	16
17	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	18
19	RECEPTACLES	20	1	1000	R	A	R	1000	20	1	RECEPTACLES	20
21	RECEPTACLES	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	22
23	RECEPTACLES	20	1	1000	R	C	R	1000	20	1	RECEPTACLES	24
25	FIRE ALARM	20	1	200	M	A	R	1000	20	1	RECEPTACLES	26
27	RECEPTACLES	20	1	1000	R	B	R	1000	20	1	RECEPTACLES	28
29	SPARE	20	1	200	S	C	R	1000	20	1	RECEPTACLES	30
31	SPARE	20	1	200	S	A	R	1000	20	1	RECEPTACLES	32
33	SPARE	20	1	200	S	B	M	500	20	1	RANGE - SHUNT TRIP BKR	34
35	SPARE	20	1	200	S	C	M	750	20	1	HOOD	36
37	SPARE	20	1	200	S	A	S	200	20	1	SPARE	38
39	SPARE	20	1	200	S	B	S	200	20	1	SPARE	40
41	SPARE	20	1	200	S	C	S	200	20	1	SPARE	42

	PHASE A	PHASE B	PHASE C	OT CONN	DEMAND	DEM. LOAD
HVAC COOLING LOAD (VA)	0	0	0	0	1	0
LIGHTING LOAD (VA)	0	0	0	0	1	0
RECEPTACLE LOAD (VA)	10000	10000	9000	29000	1	29000
WATER HEATER LOAD (VA)	0	0	0	0	1	0
KITCHEN EQ. LOAD (VA)	0	0	0	0	1	0
MISC EQ. LOAD (VA)	200	500	750	1450	1	1450
SPARES (VA)	600	600	800	2000	1	2000
HVAC HEATING LOAD (VA)	0	0	0	0	1	0
TOTAL LOAD (VA)	10800	11100	10550	32450		32450

TOTAL CONNECTED LOAD KW 32.45 TOTAL DEMAND LOAD KW 32.5

SWITCHBOARD: MSB ENCLOSURE: NEMA-3R

VOLTAGE: 120/208 MOUNTING: FREE STANDING

PHASE: 3 LOCATION: EXTERIOR

WIRE: 4 MAIN O.C. DEVICE: 1200 A CB

BUS AMPS: 1200 A.I.C.: 22,000

OPTIONS: GROUND BUS, TVSS, 100% RATED MAIN BREAKER

CKT. NO.	DESCRIPTION	CONN LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)	O. C. DEVICE POLES	O. C. DEVICE AMP TRIP
1	ATS HQ	174.2	1.0	174.2	3	600
2	ATS FS	128.4	1.0	128.4	3	500
3	LIFT STATION	6	1.0	6	2	60
4	SPARE	-	-	-	3	200
5	SPARE	-	-	-	3	60
6	-	-	-	-	-	-
7	-	-	-	-	-	-
8	-	-	-	-	-	-
9	-	-	-	-	-	-
10	-	-	-	-	-	-
11	-	-	-	-	-	-
12	-	-	-	-	-	-
13	-	-	-	-	-	-
14	-	-	-	-	-	-

DESIGN KVA: 308.6 DEMAND KVA: 308.6

DESIGN FLA: 1072 DEMAND FLA: 1072

ELECTRICAL SCHEDULES AND DETAILS
NOT TO SCALE

NOVEMBER 3, 2016

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February 23, 2017

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Scales stated hereon are valid on the original drawings only. Contractor shall carefully review all dimensions and conditions shown and report to the architect any errors, inconsistencies, or omissions discovered.

These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

St. Tammany Fire Protection District No.1
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revisions

No.	Description	Date

PROJ. #: C16-0058

date
February 23, 2017

sheet
E4.12