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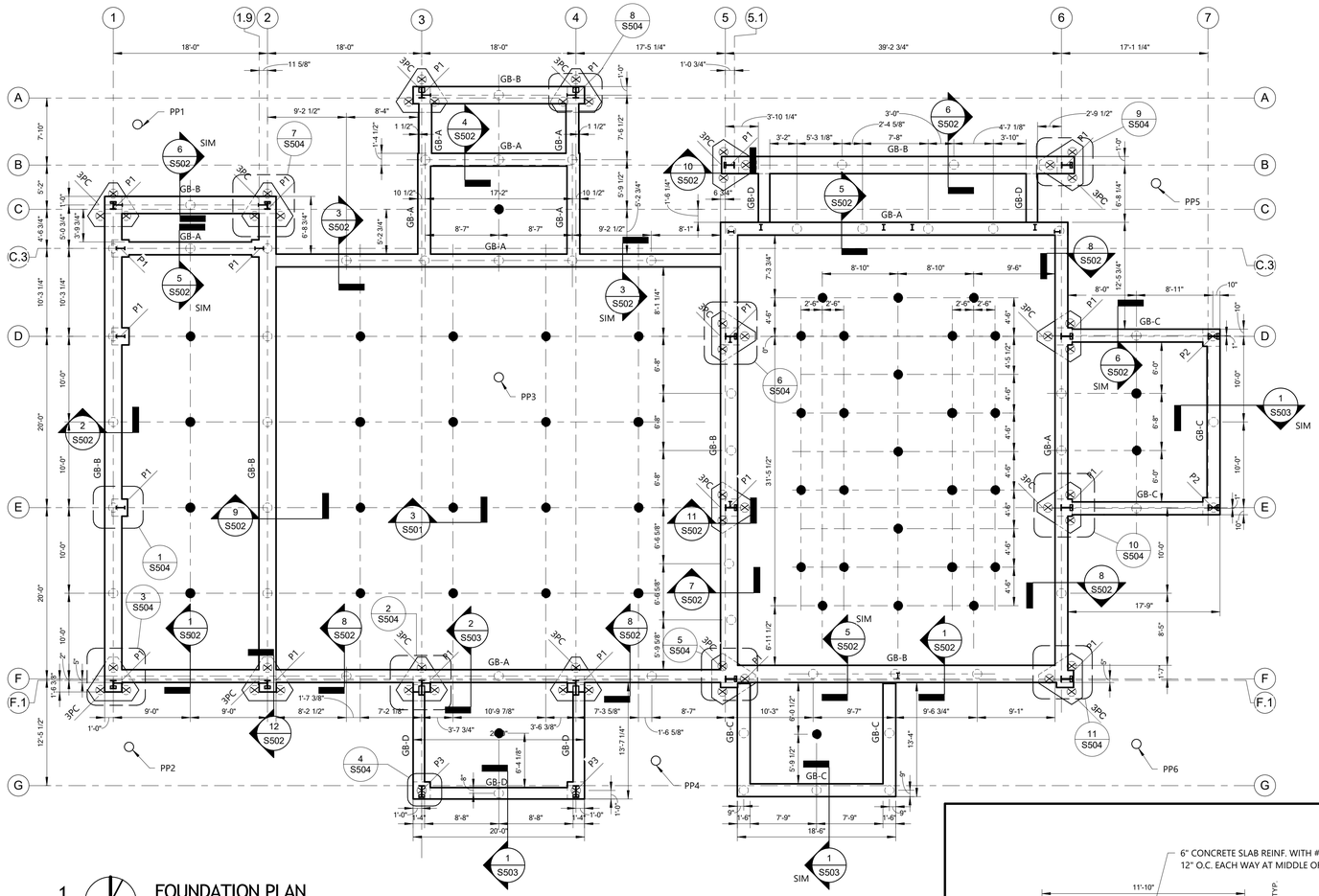


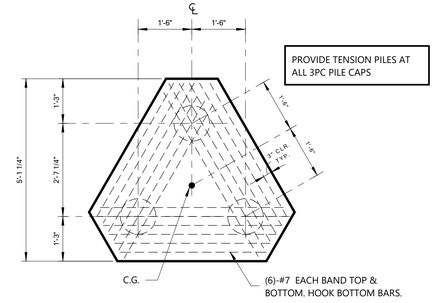
1 S101 FOUNDATION PLAN
1/8" = 1'-0"

GRADE BEAM SCHEDULE

Mark	Width	Depth	Top Bars	Bottom Bars	Ties
GB-A	1'-6"	2'-0"	(3)-#7 CONTINUOUS	(3)-#7 CONTINUOUS	#4 TIES AT 10" O.C.
GB-B	2'-0"	2'-0"	(3)-#7 CONTINUOUS	(3)-#7 CONTINUOUS	#4 TIES AT 10" O.C.
GB-C	1'-6"	1'-9"	(2)-#7 CONTINUOUS	(2)-#7 CONTINUOUS	#4 TIES AT 10" O.C.
GB-D	1'-4"	2'-0"	(2)-#7 CONTINUOUS	(2)-#7 CONTINUOUS	#4 TIES AT 10" O.C.

PEDESTAL SCHEDULE

Mark	Length	Width	Thickness	Reinforcement
P1	2' - 0"	2' - 0"	2'-0"	(8)-#6 VERTICAL BARS AND #4 TIES AT 6" O.C. (2 AT TOP OF PEDESTAL)
P2	2' - 0"	2' - 0"	1'-9"	(8)-#6 VERTICAL BARS AND #4 TIES AT 6" O.C. (2 AT TOP OF PEDESTAL)
P3	2' - 0"	2' - 0"	1'-7"	(8)-#6 VERTICAL BARS AND #4 TIES AT 6" O.C. (2 AT TOP OF PEDESTAL)

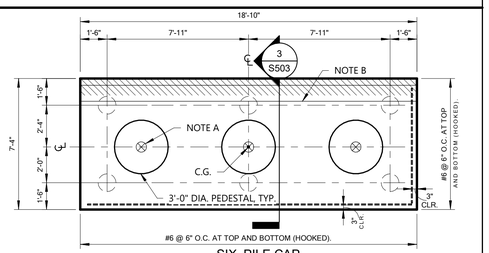


THREE PILE CAP
THICKNESS = 30"

5 S101 3 Pile Cap (3PC)
1/2" = 1'-0"

NOTE:
SEE ARCH. SITE PLAN FOR LOCATION.

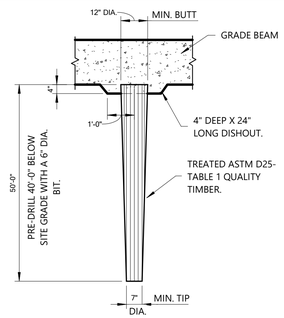
6 S101 Generator Pad
1/4" = 1'-0"



NOTE:
SEE ARCH. SITE PLAN FOR LOCATION.

SIX PILE CAP
THICKNESS = 30"

4 S101 Sign And Flagpole Foundation Plan
1/4" = 1'-0"



AT GRADE BEAM

TIMBER PILE NOTES:

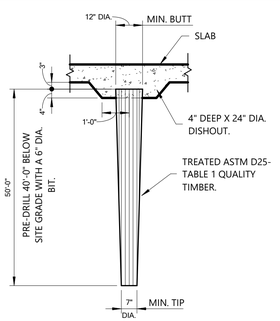
TIMBER PILES SHALL BE TREATED WITH A PRESSURE PRESERVATION TREATMENT IN ACCORDANCE WITH AWPA STANDARD C3 FOR FOUNDATION PILES. TREAT FIELD CUTS PER AWPA.

PILE DESIGN LOAD (AT CAPS) = 21 TONS. (FS=2.0)

PILE DESIGN LOAD (AT SLAB AND GRADE BEAM) = 21 TONS (FS=2.0)

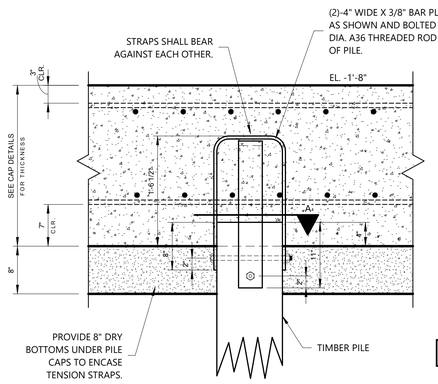
PILE ORDER LENGTHS WILL BE VERIFIED BY ENGINEER ONCE PROBE PILE INVESTIGATION AND TEST RESULTS ARE COMPLETED.

ALL PILES SHALL BE DRIVEN TO REFUSAL OR FULL PILE LENGTH. SEE SPECIFICATIONS FOR REFUSAL CRITERIA.



AT SLAB
Marked (●)

2 S101 Timber Pile Elevations
3/8" = 1'-0"



SECTION A

PROVIDE TENSION PILES AT ALL 3PC PILE CAPS

DENOTES TENSION PILE, TYP.

NOTE: BOLTS AND STRAPS TO BE HOT DIP GALVANIZED

3 S101 Pile Tension Strap Detail With Plates
1" = 1'-0"

FOUNDATION PLAN NOTES AND LEGEND:

THE TOP OF ALL GRADE BEAMS AND PEDESTALS SHALL BE AT EL. 0'-4", UNLESS NOTED OTHERWISE.

THE TOP OF ALL PILE CAPS SHALL BE AT EL. -1'-8".

THE TOP OF ALL INTERIOR SLAB PILES SHALL BE AT EL. 0'-2", UNLESS NOTED OTHERWISE.

THE TOP OF ALL PILES SHOWN UNDERNEATH GRADE BEAMS OR PEDESTALS SHALL BE AT EL. -1'-8", UNLESS NOTED OTHERWISE.

THE CENTER OF GRAVITY OF ALL PILES IS AT THE INTERSECTION OF COLUMN GRIDLINES OR CENTERED ON GRADE BEAM IF NO COLUMN IS PRESENT, UNLESS NOTED OTHERWISE.

ALL PILES UNDERNEATH GRADE BEAM SHALL BE CENTERED ON GRADE BEAMS, UNLESS NOTED OTHERWISE.

PROVIDE #4 L-BAR (a= 12", b= 26") DOWELS AT 20" O.C. ALONG TOP OF ALL GRADE BEAMS. SEE FOUNDATIONS DETAILS.

SEE GENERAL NOTES FOR FORMING REQUIREMENTS OF FOUNDATION ELEMENTS.

PROVIDE PROBE PILES AT LOCATIONS INDICATED ON THE PLANS. INSTALL USING SAME TECHNIQUES AND EQUIPMENT AS PRODUCTION PILES. A STATIC LOAD TEST WILL BE PERFORMED ON ONE OF THE PROBE PILES IN ACCORDANCE WITH ASTM D1143. TESTING SHALL BE PERFORMED A MINIMUM OF FOURTEEN (14) DAYS AFTER PROBE PILE INSTALLATION. SUBMIT STATIC TEST PILE RESULTS TO ARCHITECT/ENGINEER FOR REVIEW. WEAKEST PROBE PILE WILL BE TESTED. PRODUCTION PILES MAY NOT BE DRIVEN UNTIL THREE (3) DAYS AFTER RECEIPT OF CERTIFIED TEST RESULTS BY ARCHITECT/ENGINEER, PENDING VERIFICATION OF DESIGN CAPACITY. SEE SPECIFICATIONS FOR MORE INFORMATION.

NOTE A:

FLAGPOLE MOUNT ASSEMBLY CAST INTO PILE CAP. COORDINATE LIGHTNING PROTECTION WITH MEP.

NOTE B:

MONUMENTAL SIGN RE: ARCH.

NOTE:

PILE LOAD TEST MUST BE PERFORMED AND APPROVED PRIOR TO ORDER OF FOUNDATION MATERIALS INCLUDING TIMBER PILES AND REINFORCING STEEL. GENERAL CONTRACTOR TO COORDINATE.

LEGEND:

PPx - PROBE PILE

PROBE PILE DRIVING CRITERIA:

PROBE PILE		PRE-DRILL DEPTH
PP1	L=55FT	10'-0"
PP2	L=55FT	30'-0"
PP3	L=55FT	40'-0"
PP4	L=55FT	10'-0"
PP5	L=55FT	30'-0"
PP6	L=55FT	40'-0"

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

FOUNDATION PLAN

seal: STATE OF LOUISIANA · JOHN P. GUIDRY · License No. 36314 · PROFESSIONAL ENGINEER · CIVIL ENGINEERING

project number	drawing number
21238.00	S101
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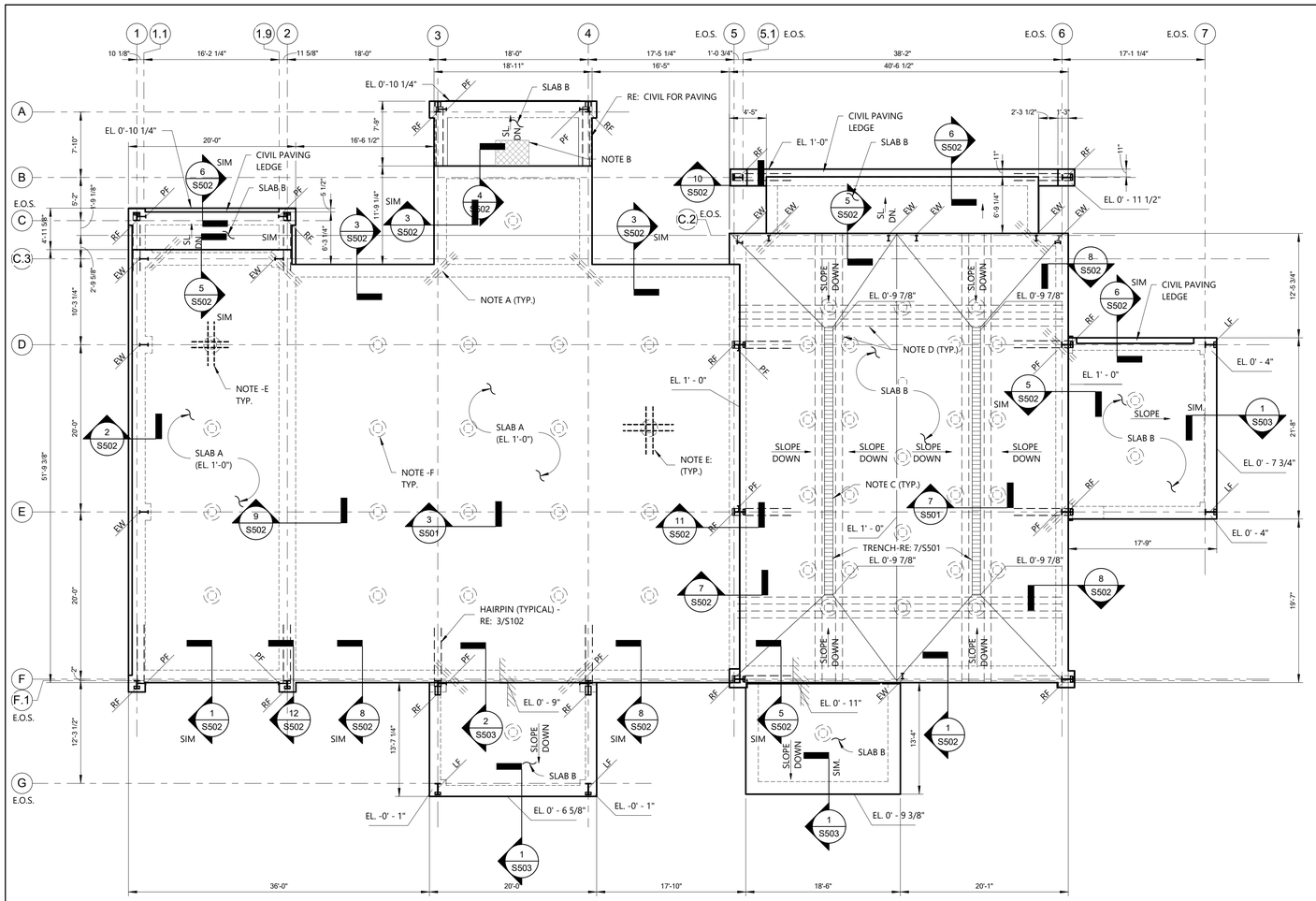


1 S102 SLAB PLAN
1/8" = 1'-0"

NOTE:

ALL PEMB COLUMNS TO BE RECESSED -6 1/2" BELOW SLAB. (i.e. EL. 0'-5 1/2").

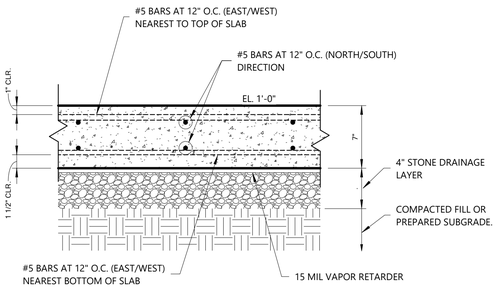
PROVIDE NON-SHRINK GROUT BELOW BASE PLATES.

METAL BUILDING COLUMN SCHEDULE

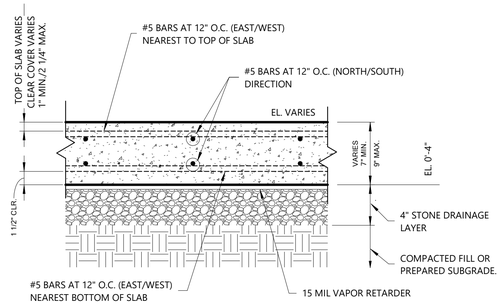
MARK	COLUMN DESCRIPTION	SHAPE	PROFILE (OR SIZE)	BASE CONNECTION	TOP CONNECTION	REMARKS
R.F.	RIGID FRAME	I	TAPERED	PINNED	FIXED	RE: NOTE 2
P.F.	PORTAL FRAME	I	STRAIGHT	PINNED	FIXED	RE: NOTE 1
E.W.	END WALL	I	STRAIGHT	PINNED	PINNED	RE: NOTE 4
L.F.	LEAN-TO FRAME	I	TAPERED	PINNED	PINNED	

NOTES:
1. PROVIDE PORTAL FRAME COLUMNS NESTED WITHIN THE RIGID FRAME COLUMN. BOLT FLANGE OF PORTAL FRAME COLUMN TO WEB OF RIGID FRAME COLUMN. PORTAL FRAME COLUMNS SHALL HAVE A MAX. DEPTH OF 14 INCHES. PORTAL FRAME COLUMNS AND BEAMS SHALL HAVE A MAXIMUM WIDTH OF 10 INCHES. PORTAL FRAMES SHALL NOT BEAR ON FOUNDATION. ALL LOAD SHALL BE TRANSFERRED THROUGH RIGID FRAME COLUMN.
2. MAXIMUM FLANGE WIDTH OF RIGID FRAME BEAMS AND COLUMNS SHALL BE 12 INCHES. MAXIMUM FRAME DEPTH SHALL BE AS INDICATED ON FRAME ELEVATION.
3. SEE SHEET S-601 FOR ADDITIONAL METAL BUILDING REQUIREMENTS.
4. MAXIMUM FLANGE WIDTH OF END WALL COLUMNS SHALL BE 8 INCHES. MAXIMUM COLUMN DEPTH SHALL BE 10 INCHES.

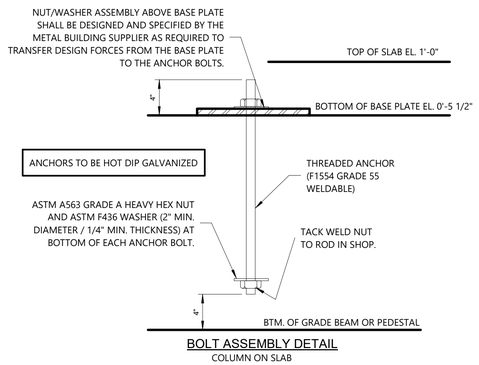
* COLUMN TAPER TO OCCUR TOWARDS EXTERIOR OF THE BUILDING FRAME. SEE FRAME ELEVATIONS AND REFERENCE ARCHITECTURAL DRAWINGS FOR REQUIRED FRAME CONFIGURATIONS.



4 S102 Slab A Section
1 1/2" = 1'-0"



5 S102 Slab B Section
1 1/2" = 1'-0"

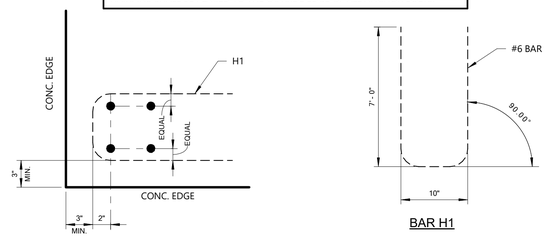


2 S102 Metal Bldg. Anchor Bolt Assembly
1 1/2" = 1'-0"

NOTES:

ALL HAIRPINS SHALL BE SET WITH 2" VERTICAL CLEARANCE FROM TOP OF SLAB.

HAIRPINS SHALL BE PLACED TO THE OUTSIDE EDGE OF ALL ANCHOR BOLTS.



3 S102 Hairpin Detail
1 1/2" = 1'-0"

ABBREVIATION & SLAB LEGEND

SLAB A = 7" THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" THICK GRAVEL ON COMPACTED FILL. REINFORCE WITH #5 BARS AT 12" O.C. EACH WAY TOP AND BOTTOM CONTINUOUS. RE: DETAIL 4/S102.

SLAB B = 7" MIN. - 8" MAX. THICK CONCRETE SLAB ON 15 MIL VAPOR RETARDER WITH TAPED JOINTS ON 4" THICK GRAVEL ON COMPACTED FILL. REINFORCE WITH #5 BARS AT 12" O.C. EACH WAY TOP AND BOTTOM CONTINUOUS. RE: DETAIL 5/S102.

SLDN = SLOPE DOWN.

TYP. = TYPICAL.

NOTE:

ALL HORIZONTAL PIPE AND CONDUIT RUNS LARGER THAN 3/4" DIAMETER SHALL OCCUR BELOW SLAB. CROSSING OF ANY CONDUITS IN SLAB IS PROHIBITED. CONDUITS IN SLAB MUST BE AT LEAST 8" APART.

NOTE:

CONTRACTOR TO CONSULT WITH ENGINEER FOR LOCATION OF SLAB CONSTRUCTION JOINTS.

NOTE:

COORDINATE WITH CIVIL DRAWINGS FOR SITE PAVING.

NOTE A:

(3)-#4x5'-0" LONG (TYP.) AT ALL RE-ENTRANT CORNERS.

NOTE B:

PROVIDE 4'-0"x3'-0"x3" DEEP SLAB DEPRESSION FOR WALK-OFF MAT. RE: ARCH. DRAWINGS.

NOTE C:

FORMED IN PLACE TRENCH DRAIN. SEE DETAIL 7/S501.

NOTE D:

PROVIDE (4) ADDITIONAL #5 BARS BETWEEN TYPICAL TOP BARS FOR AN EFFECTIVE SPACING OF 6" O.C. AT LOCATIONS SHOWN ON PLAN.

NOTE E:

PROVIDE (2)-#6 BARS x 8FT EACH WAY CENTERED OVER TOP OF PILES-TYP.

NOTE F:

PROVIDE 24" DIA. DISHOUT AROUND AT SLAB PILES.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

SLAB PLAN

seal: STATE OF LOUISIANA — JOHN P. GUIDRY — License No. 36314 — PROFESSIONAL ENGINEER — CIVIL ENGINEERING

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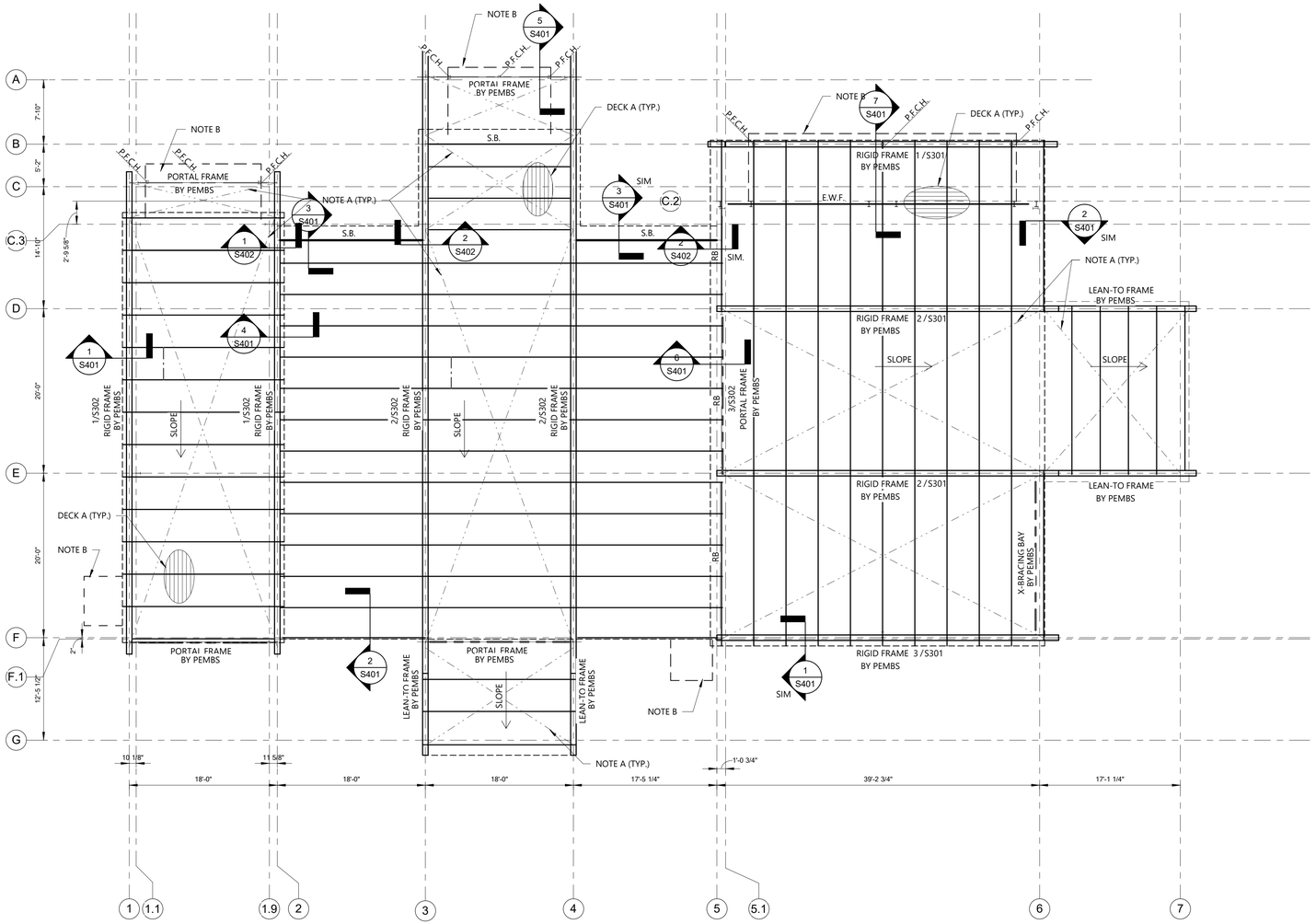

1 S201 ROOF FRAMING PLAN

1/8" = 1'-0"

ABBREVIATION & SLAB LEGEND

DECK A =	PRE-ENGINEERED METAL BUILDING ROOF DECK OVER 8" DEEP PEMB PURLINS SPACED AT 4'-0" O.C. MAXIMUM.
S.B.=	WALL LATERAL SPANDREL BEAM BY P.E.M.B.S.
TYP. =	TYPICAL.
E.W.F. =	END WALL FRAMING SUPPORT BEAM BELOW PURLINS BY P.E.M.B.S.
P.F.C.H. =	HSS4X4X3/8 PRE-FAB CANOPY HANGER COLUMN TO SUPPORT PRE-FAB CANOPY DESIGNED BY C.F.M.F. DESIGNER.
R.B. =	PURLIN SUPPORT ROOF BEAM AT LOW ROOF BY P.E.M.B.S.

NOTE A:

DIAPHRAGM BRACING BY METAL BUILDING SUPPLIER. METAL BUILDING SUPPLIER SHALL COORDINATE LOCATIONS OF BRACING RODS WITH LOCATIONS OF MECHANICAL PENETRATIONS THROUGH ROOF TO AVOID CONFLICTS. METAL BUILDING SUPPLIER SHALL ACCURATELY SHOW ALL FINAL ROOF MECHANICAL AND ARCHITECTURAL PENETRATIONS OF BUILDING FRAMING PLANS TO ASSURE COORDINATION. GC TO COORNDINATE PENETRATIONS.

NOTE B:

PREFAB CANOPY, RE: ARCH C.F.M.F. DESIGNER TO COORDINATE WITH CANOPY MANUFACTURER AND PROVIDE FRAMING AND CONNECTIONS TO SUPPORT PREFAB CANOPY HANGERS.

NOTE:

AT LOCATIONS OF ROOF HEIGHT CHANGE, PROVIDE A HIGH ROOF AND LOW ROOF SUPPORT BEAM ON THE RIGID FRAME BY THE P.E.M.B.S.

NOTE:

P.E.M.B.S. TO DESIGN ROOF PURLINS TO SUPPORT THE WEIGHT OF THE EXTERIOR WALL SUPPORTED ON THE LOW ROOF AND EXTENDING UP TO THE HIGH ROOF.

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ROOF FRAMING PLAN

seal

STATE OF LOUISIANA
JOHN P. GUIDRY
License No. 36314
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

project number 21238.00

date 10-15-2018

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drawing number S201

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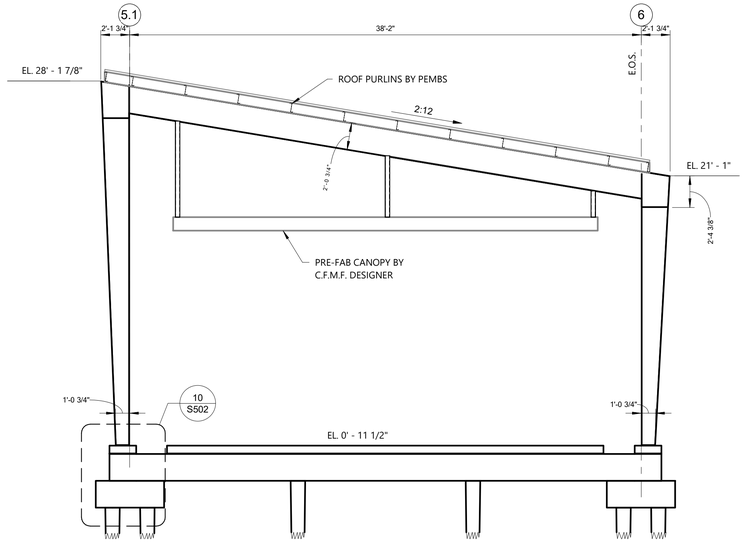
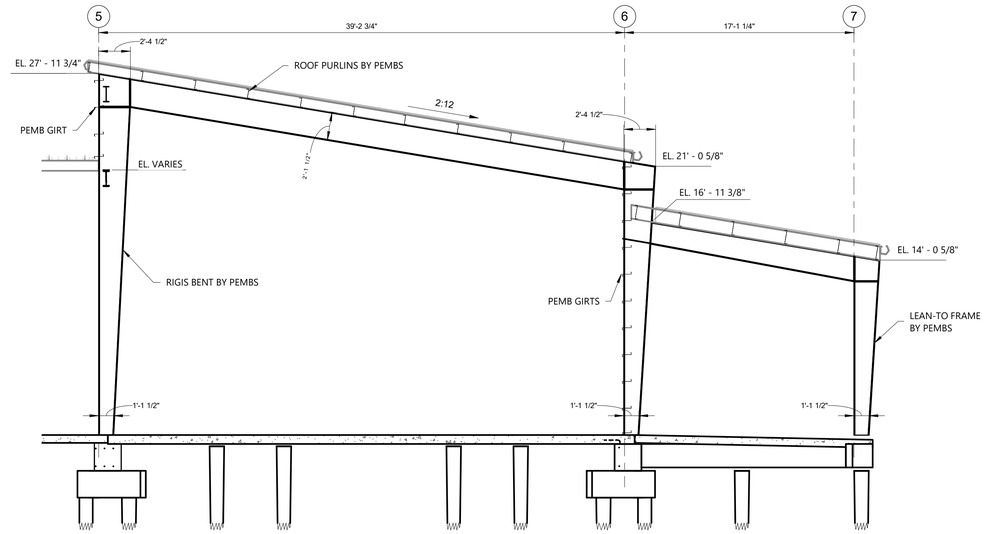
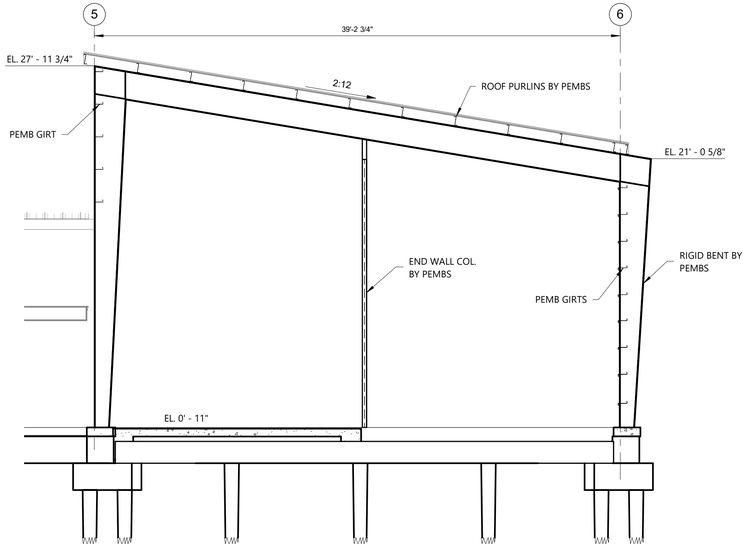


1 S301 RIGID BENT FRAME 'B'
3/16" = 1'-0"



2 S301 RIGID BENT FRAME 'D' AND 'E'
3/16" = 1'-0"



3 S301 RIGID BENT FRAME 'F'
3/16" = 1'-0"

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BUILDING SECTIONS

seal
STATE OF LOUISIANA
JOHN P. GUIDRY
License No. 36314
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

project number	21238.00
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phase	BID DOCUMENTS

drawing number
S301

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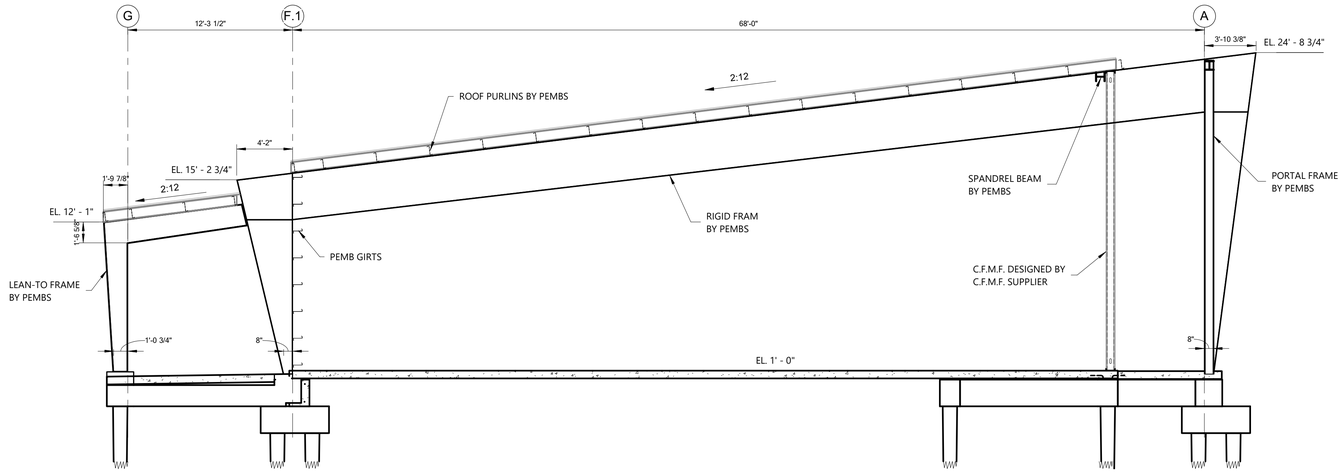
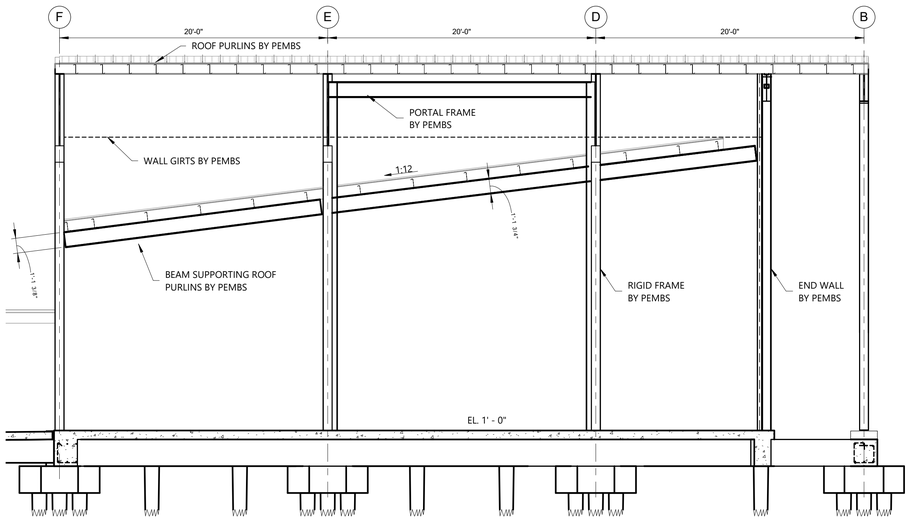
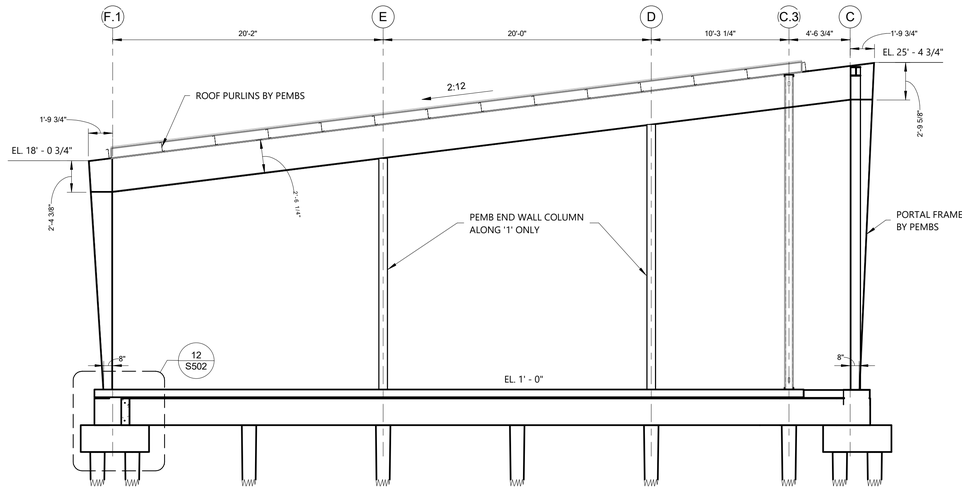


2 S302 RIGID BENT FRAME '3' AND '4'
3/16" = 1'-0"



3 S302 FRAME ELEVATION ALONG GRID '5'
3/16" = 1'-0"



1 S302 RIGID BENT FRAME '1' AND '2'
3/16" = 1'-0"

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phase BID DOCUMENTS

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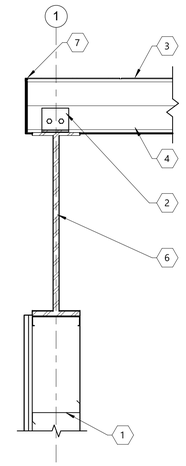
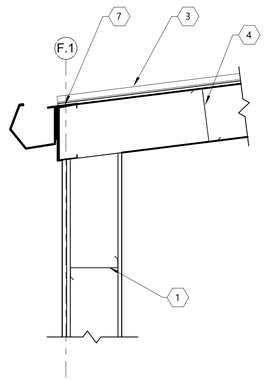
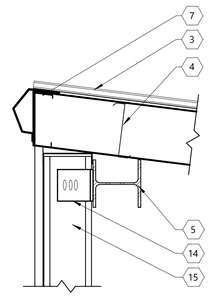


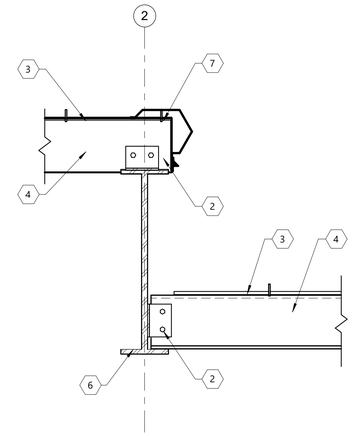
1 S401 Roof Edge Detail
1" = 1'-0"



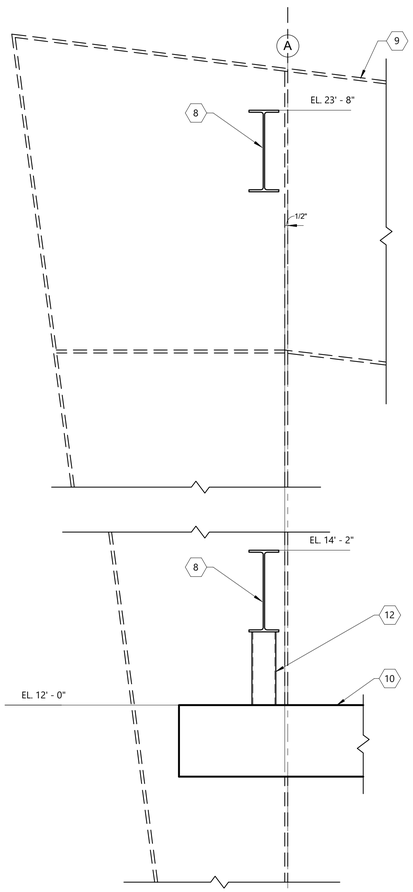
2 S401 Rear Roof Eave Detail
1" = 1'-0"



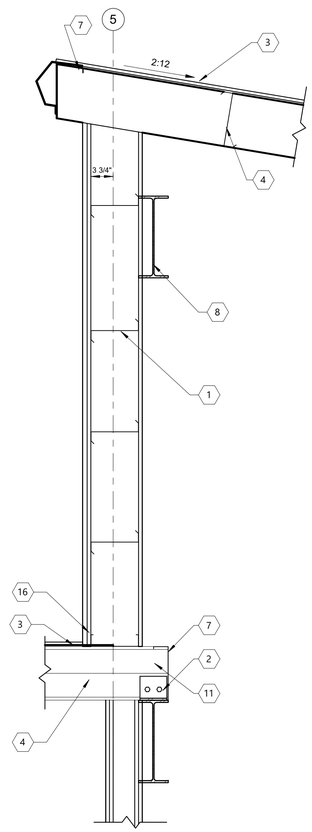
3 S401 Detail At CFMF Wall
1" = 1'-0"



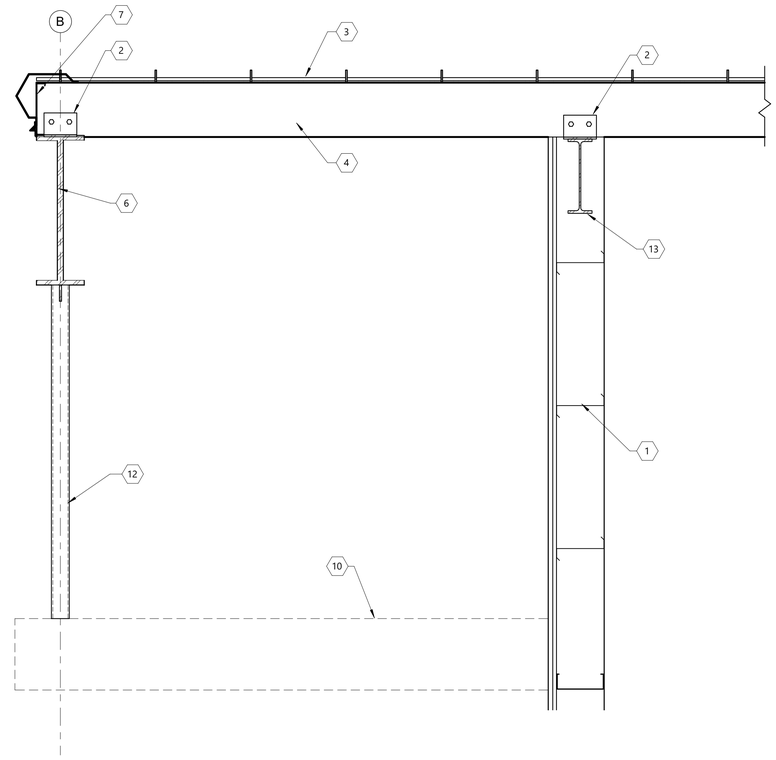
4 S401 Detail At Roof Transition
1" = 1'-0"



5 S401 Detail At Entry Way
1" = 1'-0"



6 S401 Detail At Roof Transition
1" = 1'-0"



7 S401 Detail At Appartus Bay Entry
1" = 1'-0"

Keynote Legend

1 8" PEMB GIRT BY PEMBS.
2 PEMB CLIP CONNECTION BY PEMBS.
3 PRE-ENGINEERED METAL ROOF.
4 PRE-ENGINEERED METAL BUILDING ROOF PURLINS - SEE PLAN FOR DEPTH AND SPACING.
5 PEMB SPANDREL BEAM BY PEMBS.
6 PEMB RIGID FRAME BY PEMB.
7 EAVE STRUT BY PRE-ENGINEERED METAL BUILDING SUPPLIER.
8 PEMB PORTAL FRAME BY PEMB SUPPLIER.
9 PEMB FRAME BEYOND.
10 PRE-FAB CANOPY BY C.F.M.F. DESIGNER TO PROVIDE CANOPY DESIGN AND ATTACHMENT TO HSS HANGER AND PEMB. PROVIDE ATTACHMENT LOADS TO PEMB SUPPLIER FOR DESIGN AND COORDINATION.
11 ROOF PURLIN SUPPORT BEAM BY PEMB SUPPLIER.
12 HSS4X4X3/8 ATTACHED TO PEMB FRAME. PEMB SUPPLIER TO ACCOUNT FOR 2500 LBS. AT EACH HSS IN PEMB DESIGN.
13 P.E.M.B. END WALL FRAME BY P.E.M.B. SUPPLIER.
14 C.F.M.F. CLIP FROM STUD TO PEMB DESIGNED BY C.F.M.F. SUPPLIER.
15 8" C.F.M.F. EXTERIOR STUD WALL DESIGNED BY C.F.M.F. SUPPLIER.
16 PEMB C-GIRT AT BASE OF WALL BY PEMB SUPPLIER.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

FRAMING DETAILS

seal: STATE OF LOUISIANA · JOHN P. GUIDRY · License No. 36314 · PROFESSIONAL ENGINEER · CIVIL ENGINEER

project number: 21238.00
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phase: BID DOCUMENTS

drawing number: S401

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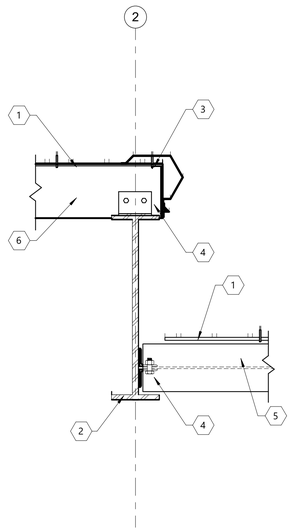
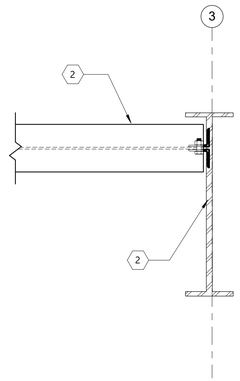


1 S402 Detail At Roof Transition
1" = 1'-0"



2 S402 Detail At Spandrel
1" = 1'-0"

Keynote Legend

1 PRE-ENGINEERED METAL ROOF.
2 PEMB RIGID FRAME BY PEMB.
3 EAVE STRUT BY PRE-ENGINEERED METAL BUILDING SUPPLIER.
4 PEMB CLIP CONNECTION BY PEMBS.
5 PRE-ENGINEERED SPANDREL BEAM BY METAL BUILDING SUPPLIER TO SUPPORT METAL STUD WALL AND SPAN BETWEEN METAL BUILDING FRAMES.
6 PRE-ENGINEERED METAL BUILDING ROOF PURLINS - SEE PLAN FOR DEPTH AND SPACING.

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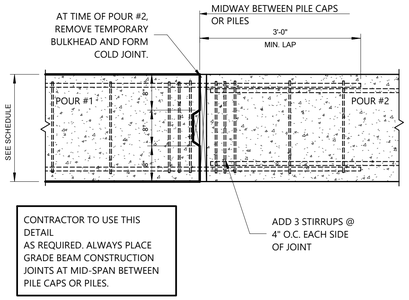
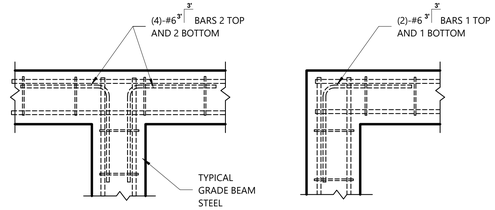
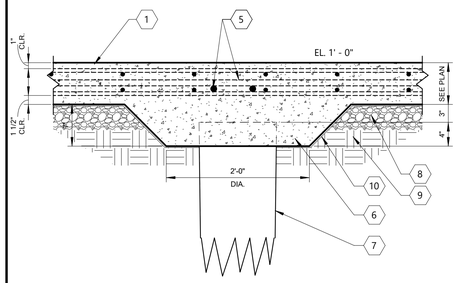


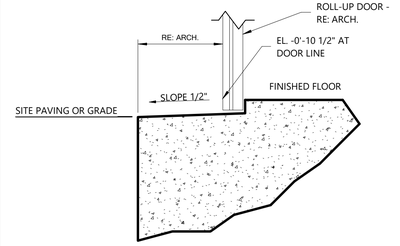
1 S501 Grade Beam Construction Joint
3/4" = 1'-0"



2 S501 Grade Beam Intersection Details
3/4" = 1'-0"



3 S501 Typ. Slab Pile Detail
1" = 1'-0"



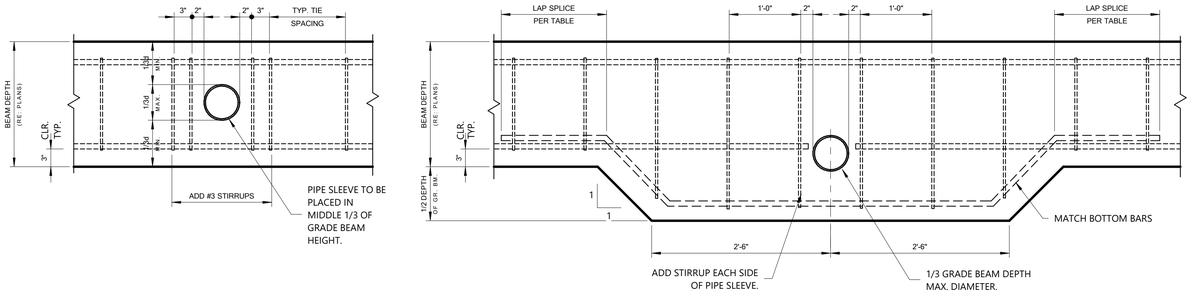
4 S501 Detail At Roll-up Door Slab
1 1/2" = 1'-0"

Keynote Legend

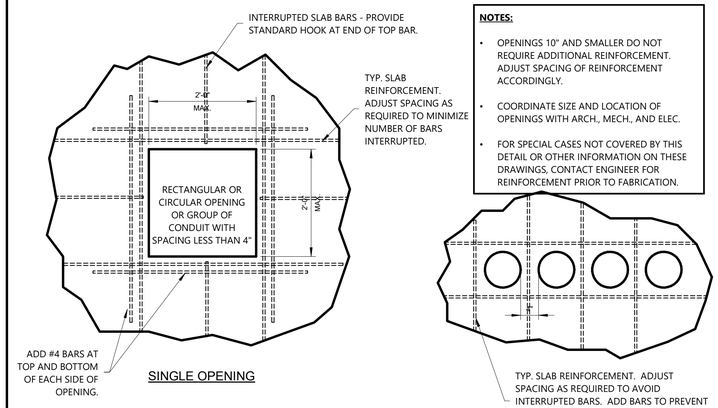
1 CONCRETE SLAB - SEE PLAN FOR MORE INFORMATION.
2 TURNDOWN SLAB UNDER TRENCH DRAIN, REINFORCE WITH (3)-#5 CONTINUOUS AS SHOWN.
3 PROVIDE #5 BENT BAR DOWELS WITH 12" LONG HORIZONTAL LEGS.
4 ADDITIONAL SLAB REINFORCEMENT PER NOTE ON SLAB PLAN.
5 PROVIDE (2)-#6 BARS CONTINUOUS CENTERED OVER TOP OF ALL SLAB PILES EACH DIRECTION. PLACE BARS ON TOP OF BOTTOM SLAB REINFORCEMENT.
6 PROVIDE 4" DEEP X 24" DIA. CONCRETE TURN-DOWN UNDER ALL SLAB PILES.
7 TIMBER PILES - SEE PLAN FOR INFORMATION.
8 4" GRAVEL LAYER.
9 COMPACTED EARTH FILL.
10 15 MIL VAPOR BARRIER - ASTM E 1745 CLASS A.

NOTE:

PLACE SLEEVES A MINIMUM OF 36" APART. PIPE SLEEVES SHALL ONLY OCCUR IN LOCATION ALLOWED BY THIS DETAIL. CONTACT ENGINEER FOR SOLUTION PRIOR TO SUBMITTAL OF REBAR SHOP DRAWINGS, IF THERE ARE CONFLICTS WITH THE ABOVE REQUIREMENT.



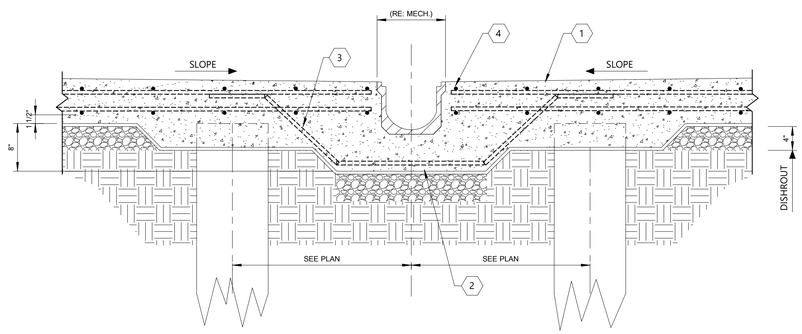
5 S501 Typical Sleeve Detail in Grade Beam
1" = 1'-0"



NOTES:

- OPENINGS 10" AND SMALLER DO NOT REQUIRE ADDITIONAL REINFORCEMENT. ADJUST SPACING OF REINFORCEMENT ACCORDINGLY.
- COORDINATE SIZE AND LOCATION OF OPENINGS WITH ARCH., MECH., AND ELEC.
- FOR SPECIAL CASES NOT COVERED BY THIS DETAIL OR OTHER INFORMATION ON THESE DRAWINGS, CONTACT ENGINEER FOR REINFORCEMENT PRIOR TO FABRICATION.

6 S501 Typical Openings In Concrete Slab
3/4" = 1'-0"

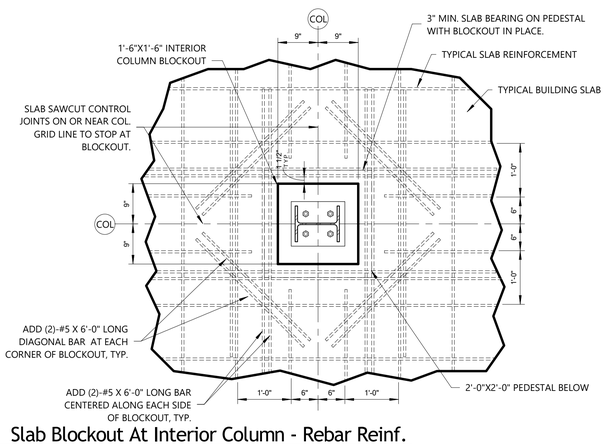


7 S501 Section At Trench Drain
1" = 1'-0"

COLUMN BLOCKOUTS IN SLAB:

SLAB BLOCKOUTS SHALL BE USED AT COLUMNS. SEE DETAIL BELOW FOR INTERIOR CASE. ALONG BUILDING EDGES, BLOCKOUTS SHALL INTERSECT SLAB EDGES TO FORM 90 DEGREE CORNER IN ORDER TO AVOID POURING OF A FRAGILE CONCRETE SLIVER.

EDGE CASE CORNER CASE



8 S501 Slab Blockout At Interior Column - Rebar Reinf.
3/4" = 1'-0"

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drawing number S501

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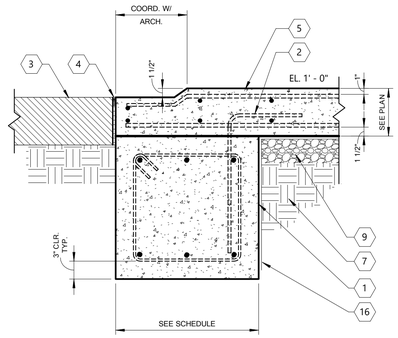
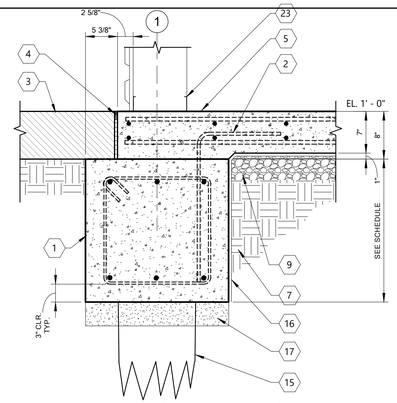
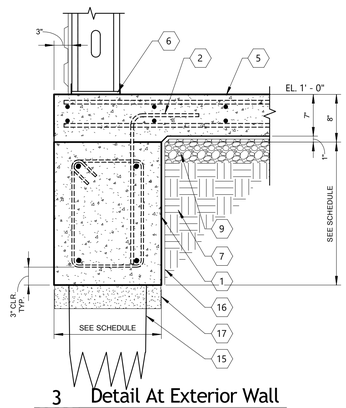


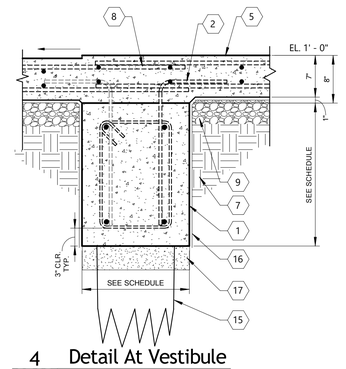
1 Exterior Grade Beam
S502 1" = 1'-0"



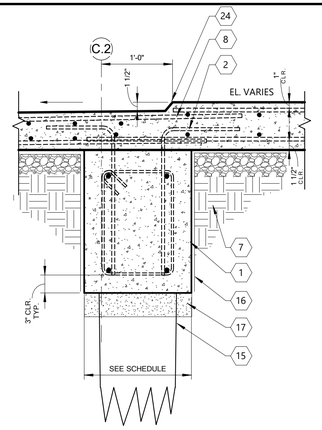
2 Exterior Grade Beam Detail
S502 1" = 1'-0"



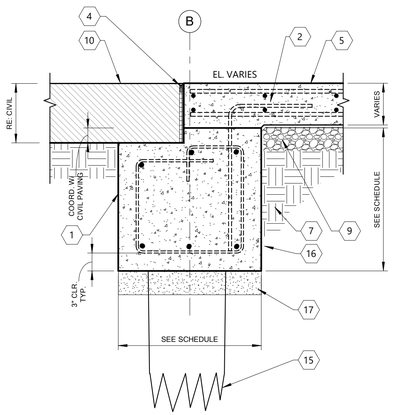
3 Detail At Exterior Wall
S502 1" = 1'-0"



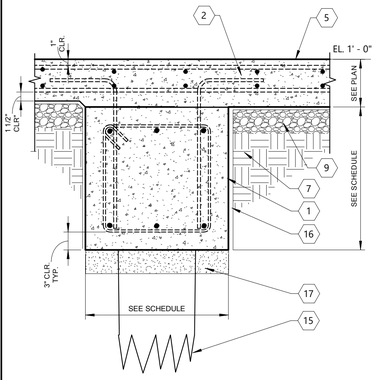
4 Detail At Vestibule
S502 1" = 1'-0"



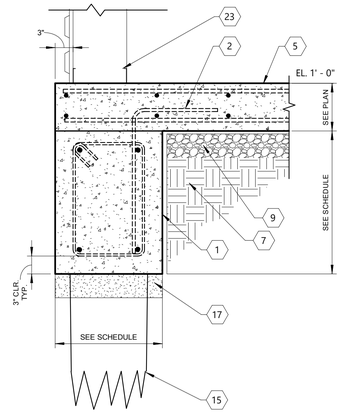
5 Detail At Appartus Bay Entry
S502 1" = 1'-0"



6 Detail At Appartus Driveway
S502 1" = 1'-0"



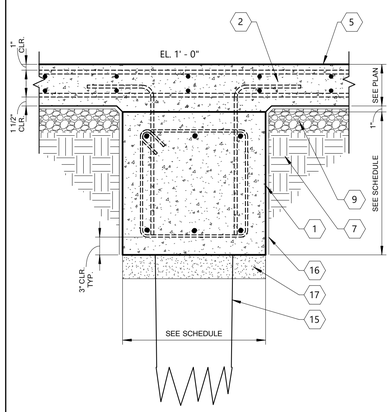
7 Detail At Slab Transition
S502 1" = 1'-0"



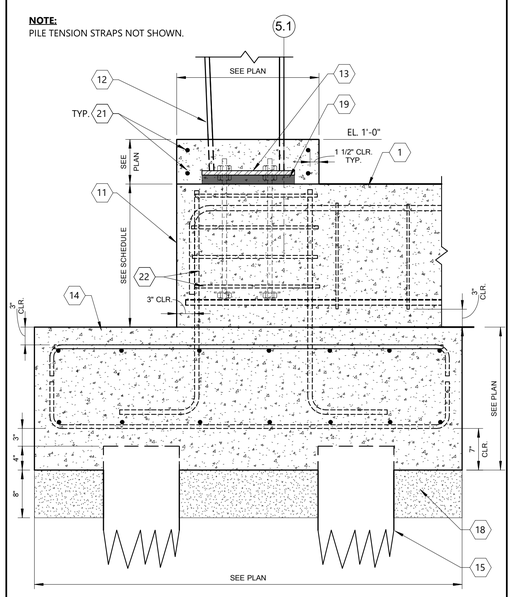
8 Detail At Ext. Apparatus Bay Wall
S502 1" = 1'-0"

Keynote Legend

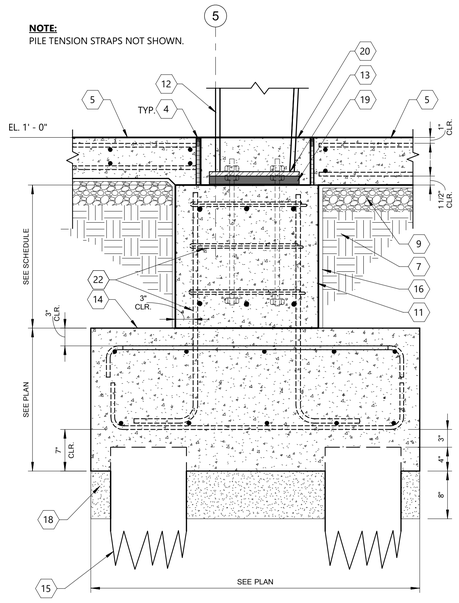
1 GRADE BEAM - SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
2 PROVIDE #4 L - BAR (A=12", B=26") SLAB TO GRADE BEAM DOWELS AT 20" O.C. ALONG GRADE BEAMS, STAGGER SIDE TO SIDE ON INTERIOR GRADE BEAMS.
3 SITE PAVING - RE: CIVIL.
4 1/2" THICK JOINT FILLER. SEE SPECIFICATION 03 3000 FOR MORE INFORMATION.
5 CONCRETE SLAB - SEE PLAN FOR MORE INFORMATION.
6 PEMB METAL STUD AT BASE OF WALL BY PEMB SUPPLIER.
7 COMPACTED EARTH FILL.
8 LAP REBAR OVER GRADE BEAM.
9 4" GRAVEL LAYER.
10 SITE PAVING. RE: CIVIL DRAWINGS.
11 CONCRETE PEDESTAL - SEE PLAN AND SCHEDULE.
12 PEMB RIGID FRAME BY PEMB.
13 PEMB BASE PLATE BY PEMBS.
14 CONCRETE PILE CAP - SEE PLANS AND DETAILS FOR INFORMATION.
15 TIMBER PILES - SEE PLAN FOR INFORMATION.
16 15 MIL VAPOR BARRIER - ASTM E 1745 CLASS A.
17 PROVIDE 4" DEEP CONCRETE TURN-DOWN 2;-0" LONG AT ALL TIMBER PILES BELOW GRADE BEAMS.
18 PROVIDE 8" DEEP CONCRETE TURN-DOWN AT PILE.
19 1 1/2" NON-SHRINK GROUT.
20 PROVIDE 8" DEEP SLAB BLOCKOUT AT ALL P.E.M.B. COLUMNS. FILL SOLID WITH CONCRETE AFTER P.E.M.B. AND GROUT INSTALLATION. REINFORCING WITH TWO LAYERS OF #4 BARS EA. WAY.
21 (2)-#4 BARS CONTINUOUS.
22 PEDESTAL REINFORCEMENT-SEE PLAN AND SCHEDULE.
23 PEMB C-GIRT AT BASE OF WALL BY PEMB SUPPLIER.
24 ROLL-UP DOOR SILL. SEE DETAIL 4/S501 AND ARCH. DETAIL 8/A904 FOR ADDITIONAL INFORMATION.



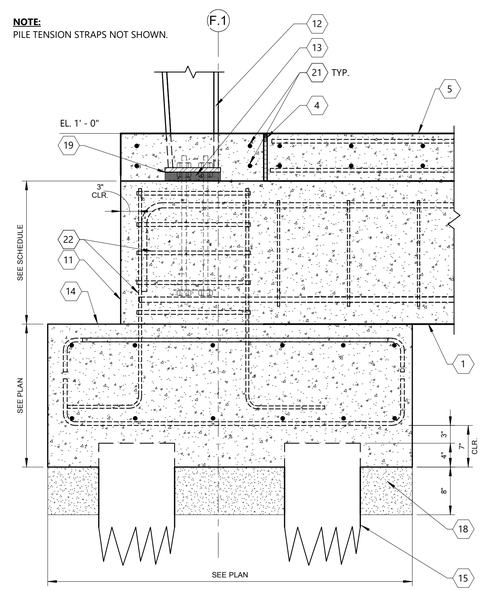
9 Interior Grade Beam Detail
S502 1" = 1'-0"



10 Detail At Exterior Canopy Column
S502 1" = 1'-0"



11 Detail At Slab Transition At Pile Cap
S502 1" = 1'-0"



12 Detail At Exterior Column Pedestal
S502 1" = 1'-0"

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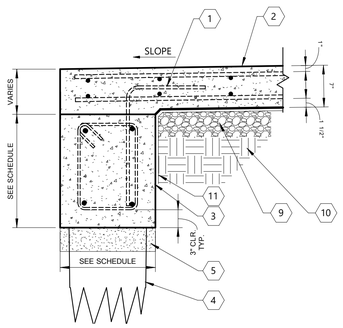
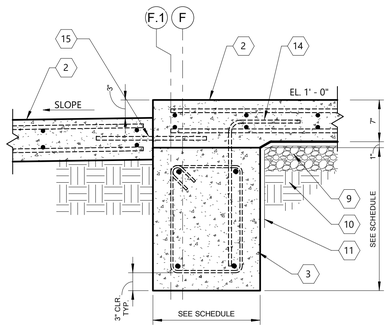
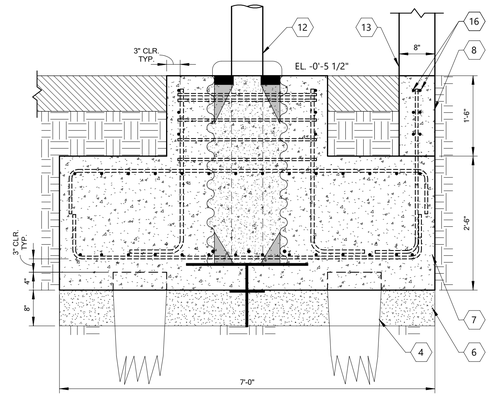


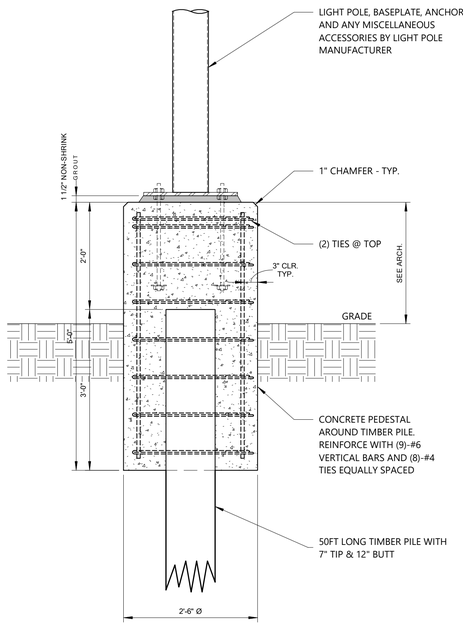
1 S503 Detail At Sloping Slab Edge
1" = 1'-0"



2 S503 Detail At Lower Slab
1" = 1'-0"



3 S503 Flagpole Foundation Section
3/4" = 1'-0"



4 S503 Light Pole Foundation Detail
3/4" = 1'-0"

Keynote Legend

1 PROVIDE #4 L - BAR (A=12", B=20") SLAB TO GRADE BEAM DOWELS AT 20" O.C. ALONG GRADE BEAMS. STAGGER SIDE TO SIDE ON INTERIOR GRADE BEAMS.
2 7" THICK CONCRETE STRUCTURAL SLAB. SEE PLAN FOR REINFORCEMENT.
3 GRADE BEAM - SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
4 TIMBER PILE - SEE PLAN FOR INFORMATION.
5 PROVIDE 4" DEEP CONCRETE TURN-DOWN 2;-0" LONG AT ALL TIMBER PILES BELOW GRADE BEAMS.
6 PROVIDE 8" DEEP CONCRETE TURN-DOWN AT PILE.
7 CONCRETE PILE CAP - SEE PLANS AND DETAILS FOR INFORMATION.
8 8" THICK CONCRETE CURB WITH #5 L-BARS (A=12", B=36") AT 12" O.C. CENTERED IN CURB.
9 4" GRAVEL LAYER.
10 COMPACTED EARTH FILL.
11 15 MIL VAPOR BARRIER - ASTM E 1745 CLASS A.
12 FLAGPOLE, RE: ARCH.
13 SIGNAGE, RE: ARCH.
14 PROVIDE #4 L - BAR (A=12", B=26") SLAB TO GRADE BEAM DOWELS AT 20" O.C. ALONG GRADE BEAMS. STAGGER SIDE TO SIDE ON INTERIOR GRADE BEAMS.
15 #7 DOWELS X24" @ 12" O.C.
16 (2)-#4 CONTINUOUS.

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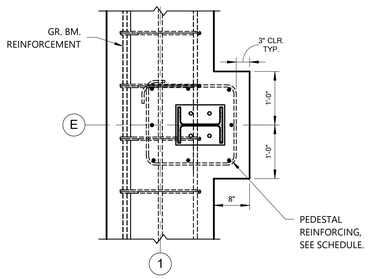
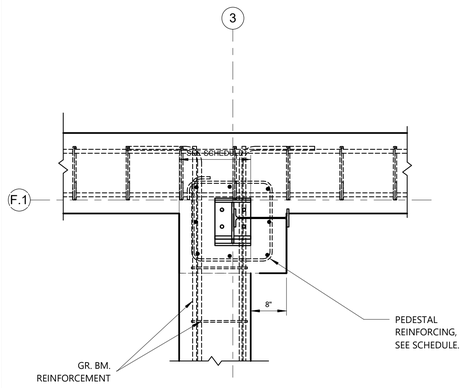
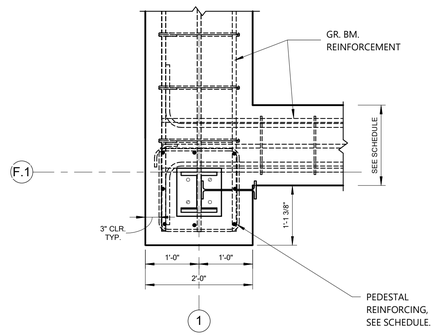


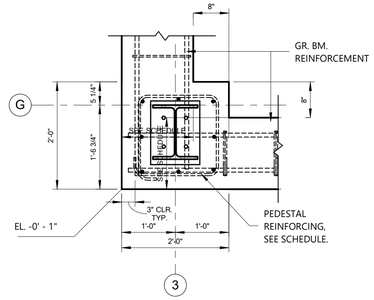
1 S504 Pedestal Detail 1
3/4" = 1'-0"



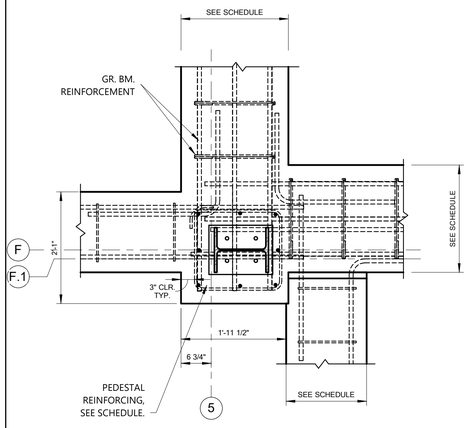
2 S504 Pedestal Detail 2
3/4" = 1'-0"



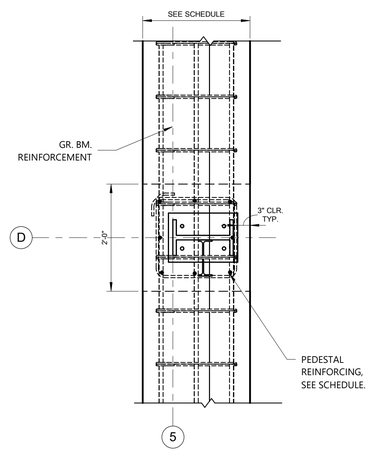
3 S504 Pedestal Detail 3
3/4" = 1'-0"



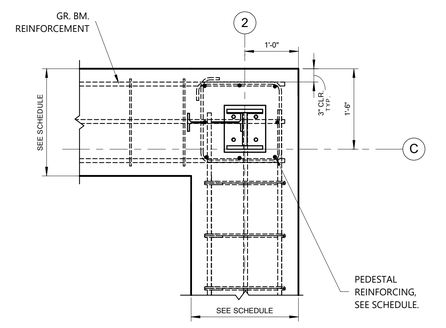
4 S504 Pedestal Detail 4
3/4" = 1'-0"



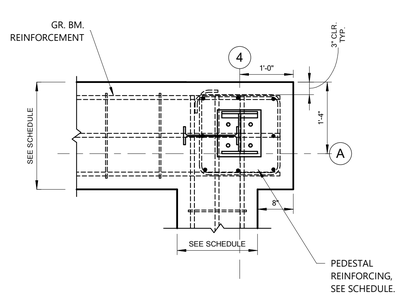
5 S504 Pedestal Detail 5
3/4" = 1'-0"



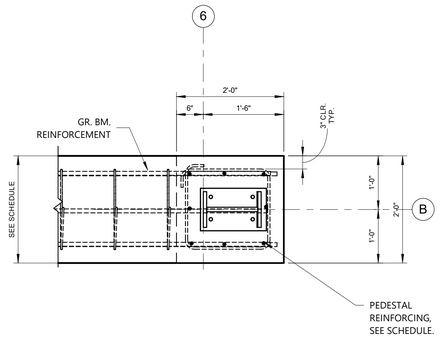
6 S504 Pedestal Detail 6
3/4" = 1'-0"



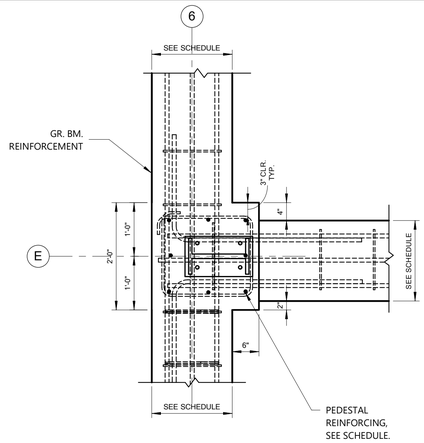
7 S504 Pedestal Detail 7
3/4" = 1'-0"



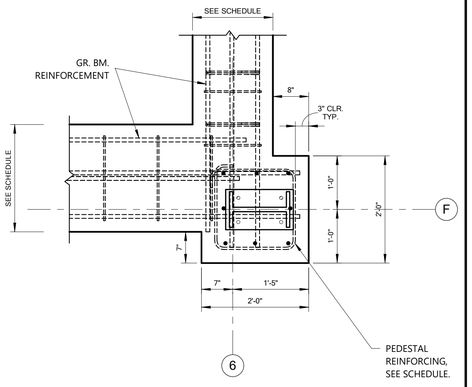
8 S504 Pedestal Detail 8
3/4" = 1'-0"



9 S504 Pedestal Detail 9
3/4" = 1'-0"



10 S504 Pedestal Detail 10
3/4" = 1'-0"



11 S504 Pedestal Detail 11
3/4" = 1'-0"

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

PEDESTAL DETAILS

seal

STATE OF LOUISIANA
JOHN P. GUIDRY
License No. 36314
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

project number	drawing number
21238.00	S504
date: 10-15-2018	
phase: BID DOCUMENTS	

10/30/2018 2:29:46 PM

A. APPLICABLE DESIGN CODES & MISCELLANEOUS

INTERNATIONAL BUILDING CODE 2015
AMERICAN CONCRETE INSTITUTE 318
AMERICAN INSTITUTE OF STEEL CONSTRUCTION

IBC CHAPTER 17 SPECIAL INSPECTIONS:
THE OWNER OR THE OWNER'S REPRESENTATIVE IS REQUIRED TO PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF IBC 2015. THE GENERAL CONTRACTOR IS REQUIRED TO ENGAGE AND ACCOMMODATE THE REQUIRED SPECIAL INSPECTIONS BY PROVIDING ACCESS TO ELEMENTS REQUIRED FOR INSPECTION AND BY NOTIFYING THE TESTING AGENCY 48 HOURS PRIOR TO A REQUIRED INSPECTION EVENT. THE CONTRACTOR SHALL PROVIDE REPORTS FROM THE TESTING AGENCY INDICATING COMPLIANCE WITH THE IBC REQUIREMENTS FOR:

- STEEL CONSTRUCTION (IBC 1705.2)
- CONCRETE CONSTRUCTION (IBC 1705.3)
- SOILS (IBC 1705.6)
- TIMBER PILES (IBC 1705.7)
- DRILLED SHAFTS (IBC 1705.8)
- SPRAYED FIRE-RESISTANT MATERIALS (IBC 1705.13)
- MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC 1705.14)
- WIND RESISTANCE (IBC 1705.16)

STRUCTURAL OBSERVATIONS:
STRUCTURAL OBSERVATIONS SHALL BE CONDUCTED BY THE ENGINEER OF RECORD TO ASSURE GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS. THESE OBSERVATIONS WILL NOT TAKE THE PLACE OF THE CODE REQUIRED SPECIAL INSPECTIONS LISTED ABOVE OR ANY OTHER INSPECTIONS REQUIRED BY THE LOCAL BUILDING OFFICIAL. NOTIFY ENGINEER OF RECORD AND ARCHITECT FOR STRUCTURAL OBSERVATION VIA EMAIL A MINIMUM OF 72 HOURS PRIOR TO ANY OF THE FOLLOWING EVENTS:

- INSTALLATION OF PILES AND /OR DRILLED SHAFTS
- ALL CONCRETE/GROUT POURS
- NEAR COMPLETION OF STRUCTURAL STEEL ERECTION.
- PLACEMENT OF ROOFING COVERING ROOF DECK.

FAILURE TO NOTIFY MAY REQUIRE REMOVAL OF COMPLETED WORK.

PROVIDE COMPREHENSIVE ELECTRONICALLY TRANSMITTED PHOTOS OF ANY REQUESTED WORK TO ENGINEER PRIOR TO ANY OF THE ABOVE EVENTS IN LIEU OF OBSERVATION IF DEEMED ACCEPTABLE BY ENGINEER.

B. DESIGN LOADS AND REQUIREMENTS SECTION

(1) ROOF DESIGN LOADS
LIVE LOAD ----------20 PSF (REDUCIBLE)
GROUND SNOW LOAD ---------- 0 PSF

(2) FLOOR DESIGN LOADS
STORAGE LIVE LOAD ----------100 PSF
OFFICE LIVE LOAD ---------- 80 PSF
APPARATUS BAY LIVE LOAD ---------- 250 PSF

(3) LATERAL DESIGN - WIND
ASCE 7-10
ULTIMATE DESIGN WIND SPEED (V_{ult})------- 143 MPH
NOMINAL DESIGN WIND SPEED (V_{asd})------- 111 MPH
EXPOSURE CATEGORY ---------- C
RISK CATEGORY ---------- IV
INTERNAL PRESSURE COEFFICIENT ---------- +/-0.18
MWFRS - DIRECTIONAL PROCEDURE

(4) LATERAL DESIGN -SEISMIC
ASCE 7-10
IMPORTANCE FACTOR ---------- 1.0
S_s ---------- 0.101g
S_1 ---------- 0.053g
SITE CLASS ---------- D
S_{ds} ---------- 0.108g
S_{d1} ---------- 0.084g
SEISMIC DESIGN CATEGORY-------- B
C_s ---------- 0.0540
DESIGN BASE SHEAR ---------- 0.0540*W
R ---------- 3
EQUIVALENT LATERAL-FORCE ANALYSIS METHOD.
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

C. GEOTECHNICAL

THE FOUNDATION AND SLAB DESIGN WAS BASED ON THE GEOTECHNICAL INVESTIGATION BY THE BETA GROUP, LLC DATED 07/27/2018. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE GEOTECHNICAL REPORT PRIOR TO BIDDING. A COPY OF THE GEOTECHNICAL REPORT IS AVAILABLE AT THE ARCHITECT'S OFFICE FOR REVIEW.

D. CONCRETE AND GROUT

CONCRETE MIXING, HANDLING, PLACING, AND CURING SHALL BE IN ACCORDANCE WITH ACI 301.

SEE THE "CONCRETE MIX REQUIREMENTS" TABLE FOR DESCRIPTIONS AND REQUIREMENTS OF CONCRETE TYPES.

FLY ASH IS NOT PERMITTED IN ANY CONCRETE FOR THIS PROJECT.

SLAG IS NOT PERMITTED IN ANY CONCRETE FOR THIS PROJECT.

ALL GROUT SHALL BE NON-SHRINK GROUT. THERE SHALL BE 2" NON-SHRINK GROUT BENEATH ALL COLUMN BASE PLATES.

ALL FLOOR DRAINS, DROPS, CURBS, ETC. SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

ALL PILE CAPS SHALL BE FULLY PLYWOOD FORMED.

THE TOP 5" OF BOTH SIDES OF ALL GRADE BEAMS SHALL BE WOOD FORMED-UNLESS NOTED OTHERWISE.

ALL EXPOSED SURFACES OF CONCRETE WALLS, FOUNDATION EDGES, AND SLAB EDGES SHALL BE PLYWOOD FORMED AND COATED WITH A REPAIR MORTAR.

RANDOM TRAFFIC FLOOR FINISH TOLERANCES (F_F AND F_L) FOR SLAB ON GRADE ARE TO MEET SPECIFIED OVERALL FLATNESS OF SOF_F = 35 AND SPECIFIED OVERALL LEVELNESS OF SOF_L = 25 WITH MINIMUM LOCAL VALUES OF MLF_L = 21 AND MLF_F = 15, AS EXPRESSED IN ACI 117, SECTION 4, AND MEASURED WITHIN 72 HOURS IN ACCORDANCE WITH ASTM E 115.

THE CONTRACTOR SHALL INCLUDE IN THE BID THE COMPLETE COST OF AN ADDITIONAL 10 CUBIC YARDS OF UNSCHEDULED 4000 PSI STRUCTURAL FOUNDATION/SLAB CONCRETE FOR MISCELLANEOUS USE TO BE DELIVERED, PLACED, FORMED, AND FINISHED AS DIRECTED BY STRUCTURAL ENGINEER.

E. CONCRETE REINFORCEMENT

ALL REBARS SHALL BE GRADE 60 (FY = 60,000 PSI MIN.)

VAPOR RETARDER AT GROUND FLOOR SLABS TO BE 15 MIL. WITH TAPED JOINTS. REFERENCE SPECIFICATIONS FOR CAST-IN-PLACE CONCRETE FOR ADDITIONAL INFORMATION.

HOOK ALL GRADE BEAM TOP BARS AT THE END OF THE GRADE BEAM.

PROVIDE (2)-#6 L BARS (a=36",b=36") ONE TOP AND ONE BOTTOM AT THE OUTSIDE FACE OF ALL GRADE BEAM CORNERS.

PROVIDE (4)-#6 L BARS (a=36",b=36") TWO TOP AND TWO BOTTOM AT ALL GRADE BEAM INTERSECTIONS.

ALL WELDED WIRE MESH SHALL HAVE 8" MIN. LAP BETWEEN SHEETS.

PLACE AND SECURE ALL EMBEDDED ITEMS INCLUDING REINFORCING DOWELS, ANCHOR BOLTS, FORM SAVER DOWELS AND EMBED PLATES PRIOR TO PLACING OF CONCRETE. DO NOT WET STICK ANY OF THESE ITEMS. UNLESS NOTED OTHERWISE HEREIN OR PERMITTED BY ENGINEER OF RECORD IN WRITING. THIS DOES NOT APPLY TO SINGLE-BAR REINFORCEMENT IN DRILLED SHAFTS.

F. STRUCTURAL STEEL

STRUCTURAL STEEL MEMBERS SHALL BE MADE USING THE FOLLOWING GRADES:

WIDE FLANGE SHAPES ----------	ASTM A-992
TUBES ----------	ASTM A500, GRADE B
PIPES ----------	ASTM A53, TYPE E OR S
PLATE, BARS, & ANGLES ----------	ASTM A36

ALL STRUCTURAL STEEL SHALL BE FABRICATED, COATED, AND ERECTED AS PER THE AISC SPECIFICATIONS.

ALL WELDS SHALL BE WITH E70XX ELECTRODES AND IN ACCORDANCE WITH AWS STANDARDS. MINIMUM FILLET WELD SIZE SHALL BE 1/4" - U.N.O. FOULING ELEMENTS SUCH AS PAINT, OIL, GREASE, OR OTHER CONTAMINANTS SHALL BE REMOVED AT ALL WELDED CONNECTIONS PRIOR TO WELDING.

ALL FRAMING CONNECTIONS SHALL BE MADE WITH THE MAXIMUM NUMBER OF ROWS OF 3/4" A325-N TENSION CONTROL BOLTS FOR GIVEN BEAM DEPTH. - U.N.O.

ALL TUBULAR STEEL COLUMNS SHALL HAVE 1/2" CAP PLATES - U.N.O.

THE CONTRACTOR SHALL ASSURE THAT THE STRUCTURE HAS BEEN ERECTED TRUE AND SUITABLE TEMPORARY BRACING AND GUYS SHALL BE INSTALLED TO MAINTAIN SAID TRUENESS. THE STRUCTURAL STEEL FRAMEWORK SHALL BE BRACED OR GUYED UNTIL FINAL ERECTION IS COMPLETE AND DECKING AND PERMANENT BRACES HAVE BEEN ERECTED.

G. POST-INSTALLED ANCHORS

THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED BELOW MAY BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD FOR REVIEW. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A CODE REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT.

CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR PRODUCT INSTALLATION TRAINING AND A LETTER SHALL BE SUBMITTED TO THE ENGINEER OF RECORD INDICATING TRAINING HAS TAKEN PLACE. SPECIAL INSPECTIONS ARE REQUIRED PER THE IBC AND ICC-ES REPORTS.

A. FOR ANCHORING INTO CONCRETE

A1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI-355.2 AND ICC-ES AC193. PRE-APPROVED ANCHORS INCLUDE:
(a) SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
(b) SIMPSON STRONG-TIE "STRONG-BOLT-2" (ICC-ES ESR-3037)

A2. ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308. PRE-APPROVED ANCHORS INCLUDE:
(a) SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
(b) SIMPSON STRONG-TIE "STRONG-BOLT-2" (ICC-ES ESR-3037)

H. POST-INSTALLED ANCHORS

THE FOLLOWING POST-INSTALLED ANCHORS OR ADHESIVE SHALL BE USED FOR THIS PROJECT UNLESS EQUAL SUBSTITUTIONS ARE SUBMITTED AND APPROVED.

EXPANSION ANCHORS
- STRONG BOLT 2 BY SIMPSON STRONG TIE
- KWIK BOLT-TZ BY HILTI
- DEWALT STUD SD1

CONCRETE OR MASONRY SCREWS
- TITEN BY SIMPSON STRONG TIE
- DEWALT TAPPER BY
- KWIK-CON II BY HILTI

EPOXY ADHESIVE
- SET-XP BY SIMPSON STRONG TIE
- HIT-RE 500v3 BY HILTI
- DEWALT PURE110+
- DEWALT AC200+

HEAVY DUTY SCREW ANCHORS
- TITEN HD BY SIMPSON STRONG-TIE
- KH-EZ BY HILTI
- DEWALT SCREW BOLT+

ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED WITH STRICT ADHERENCE TO THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

FOR ALL POST INSTALLED ANCHOR APPLICATIONS, HOLES SHALL BE DRILLED WITH A HAMMER DRILL, U.N.O.

ALL DRILLED HOLES FOR ADHESIVE ANCHORS SHALL BE BRUSHED AND BLOWN CLEAN WITH COMPRESSED AIR AS SPECIFIED BY THE MANUFACTURER.

ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, U.N.O.

I. COLD-FORMED METAL FRAMING

COLD-FORMED METAL FRAMING SUPPLIER MUST BE A MEMBER OF AND PROVIDE SECTIONS MEETING THE PRODUCT STANDARDS AND QUALITY STANDARDS SET BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

COLD-FORMED METAL FRAMING MEMBER SIZING DESIGNATIONS ARE PER THE NOMENCLATURE ESTABLISHED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). SEE THE FOLLOWING EXAMPLE:

800S200-43

800 = MEMBER DEPTH TO TWO DECIMAL PLACES = 8.00"
S = MEMBER TYPE, STUD OR JOIST
200 = FLANGE WIDTH TO TWO DECIMAL PLACES = 2.00"
43 = MINIMUM DESIGN THICKNESS OF THE METAL IN MILS

ALL COLD-FORMED METAL FRAMING MEMBERS SHALL HAVE MINIMUM THICKNESS OF 43 MILS, U.N.O.

PROVIDE CONTINUOUS 12 GAGE BENT PLATE (2"x2" MIN. U.N.O.) AROUND PERIMETER OF ROOF FORMED BY PRE-ENGINEERED ROOF TRUSSES AND COLD-FORMED METAL FRAMING ROOF JOISTS INCLUDING MECH. PENETRATIONS, ROOF EDGES, ETC.

PROVIDE BRIDGING AND END BLOCKING FOR ALL JOIST SPANS. SIZE AND SPACING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

ALL CONDUIT AND OTHER PENETRATIONS IN WALL STUDS SHALL BE MADE THRU THE TYPICAL OVAL PUNCHOUT IN THE STUD. IF LARGER OPENINGS ARE REQUIRED, THE GENERAL CONTRACTOR SHALL COORDINATE BETWEEN MECHANICAL/ELECTRICAL SUBCONTRACTORS AND THE COLD-FORMED METAL FRAMING ENGINEER TO ENSURE THAT THE OPENINGS ARE PROPERLY CONSIDERED IN DESIGN.

COLD-FORMED METAL FRAMING SUPPLIER SHALL DESIGN AND PROVIDE STUD FRAMING AS REQUIRED TO SUPPORT PRE-MANUFACTURED ALUMINUM CANOPIES AT EXTERIOR. GENERAL CONTRACTOR TO COORDINATE WITH CANOPY SUPPLIER TO PROVIDE LOADING AND ASSURE PROPER CONNECTIVITY. CONNECTION OF CANOPIES TO COLD-FORMED METAL FRAMING SHALL BE SHOWN ON BOTH ALUMINUM CANOPY SHOP DRAWINGS AND COLD-FORMED METAL FRAMING SHOP DRAWINGS.

NO SPLICES IN STUDS, JOISTS, BEAMS, HEADERS, OR OTHER LOAD CARRYING MEMBERS MAY BE MADE WITHOUT PRIOR ENGINEERING REVIEW AND SPECIFIC DETAILS FOR ANY SUCH REVISION TO THE ORIGINAL DESIGN.

ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS. STUD ENDS MUST SEAT TIGHTLY INTO TRACKS IN ALL BEARING APPLICATIONS.

J. PRE-ENGINEERED METAL BUILDING STRUCTURAL DESIGN REQUIREMENTS

DESIGN CRITERIA:

A. BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, WITH ALL LOCAL AMENDMENTS.

B. ROOF LIVE LOAD:----------20 PSF
- REDUCIBLE ACCORDING TO BUILDING CODE

C. COLLATERAL DEAD LOAD:

1. OFFICE BUILDING ROOF
TYPICAL CEILING/MEP/MISC.----------10 PSF(*)
(*) = PLUS ANY ADDITIONAL EQUIPMENT, PIPING ETC. LOADS GREATER THAN THE TYPICAL LOADING

D. ROOF SNOW LOAD: SEE SECTION B DESIGN LOADS & REQUIREMENTS.

E. WIND DESIGN DATA: SEE SECTION B DESIGN LOADS & REQUIREMENTS.

F. SEISMIC DESIGN DATA: SEE SECTION B DESIGN LOADS & REQUIREMENTS.

K. METAL BUILDING NOTES

COLUMN LEGEND:

SEE SLAB PLAN.

SUBMITTALS:

- METAL BUILDING DRAWINGS AND CALCULATIONS SHALL BE PROVIDED TO A/E FOR REVIEW AND APPROVAL PRIOR TO FOUNDATION REINFORCING STEEL BAR SUBMITTAL BEING REVIEWED. GENERAL CONTRACTOR TO COORDINATE.
- DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED CIVIL ENGINEER LICENSED IN LOUISIANA - NO EXCEPTIONS.
- DRAWINGS MUST CLEARLY ILLUSTRATE THE EDGE OF CONCRETE SLAB TO ASSURE CORRECT PLACEMENT OF ANCHOR BOLTS.

ANCHOR BOLT REQUIREMENTS:

- COORDINATE ALL ANCHOR BOLT REQUIREMENTS WITH METAL BUILDING MANUFACTURER'S SHOP DRAWINGS.
- PROVIDE ANCHOR BOLT SHOP DRAWINGS TO A/E FOR REVIEW AND APPROVAL.
- ANCHOR BOLTS TO CONTAIN 5" OF THREADS AND 5" OF PROJECTION ABOVE SLAB.
- ANCHOR BOLT LENGTH = BASED ON DETAIL PROVIDED HEREIN.
- ANCHOR BOLT SHALL CONTAIN THREE NUTS AND THREE WASHERS. NUT AT BOTTOM END SHALL BE FULLY ENGAGED AND TACK WELDED TO ANCHOR ROD.
- ANCHOR BOLT MATERIAL SHALL BE ASTM F1554 GRADE 36.
- ANCHOR BOLT DIAMETER SHALL BE DETERMINED BY METAL BUILDING SUPPLIER BASED ON CONTROLLING COLUMN BASE REACTIONS. IT SHALL BE CLEARLY SHOWN ON METAL BUILDING DRAWINGS.
- SEE BOLT ASSEMBLY DETAIL FOR ADDITIONAL REQUIREMENTS.

L. CONTINUED

DRIFT AND DEFLECTION CRITERIA:

A. PORTAL FRAME, WALL X-BRACE AND RIGID FRAME LATERAL DRIFT SHALL BE H/360 OR STIFFER IN TERMS OF THE BUILDING EAVE HEIGHT (H).
B. DRIFT REQUIREMENTS FOR WIND SHALL BE BASED ON A 10 YEAR MEAN RECURRENCE INTERVAL (MRI): 78 MPH WIND.
C. ROOF PURLINS SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITS AS SPECIFIED IN IBC 2015. REFER TO IBC 2015 TABLE 1604.3 FOR ADDITIONAL NOTES AND REQUIREMENTS.
   1. ROOF MEMBER SUPPORTING PLASTER CEILING:
      i. L = SPAN/360
      ii. W = SPAN/360
      iii. D+COLL+ L = SPAN/240
   2. ROOF MEMBER SUPPORTING NONPLASTER CEILING:
      i. L = SPAN/240
      ii. W = SPAN/240
      iii. D+COLL+L = SPAN/180
   3. ROOF MEMBER NOT SUPPORTING CEILING:
      i. L = SPAN/180
      ii. W = SPAN/180
      iii. D+COLL+L = SPAN/120

D. WALL GIRTS AND OTHER WALL FRAMING MEMBERS PROVIDED AND DESIGNED BY THE BUILDING SUPPLIER SHALL BE DESIGNED FOR THE FOLLOWING DEFLECTION LIMITS AS SPECIFIED IN IBC 2015. REFER TO IBC 2015 TABLE 1604.3 FOR ADDITIONAL NOTES AND REQUIREMENTS.
   1. EXTERIOR WALLS WITH BRITTLE FINISHES INCLUDING ALL WALLS WITH INTERIOR GYPSUM ATTACHED
      i. W = SPAN/240
   2. EXTERIOR WALL WITH FLEXIBLE FINISHES
      i. W = SPAN/120

FRAMING REQUIREMENTS:

A. ALL COLUMN BASE CONNECTIONS TO THE SLAB / FOUNDATION SHALL BE DESIGNED BY THE BUILDING SUPPLIER AS PINNED; MOMENT TRANSFER FROM COLUMN TO THE FOUNDATION IS NOT ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD (FOX-NESBIT ENGINEERING).
B. METAL BUILDING SHOP DRAWINGS SHALL ILLUSTRATE THE CONNECTION OF ANY CUSTOM STEEL FRAMING ELEMENTS TO ANY BUILDING COLUMNS AND METAL BUILDING ELEMENTS/MEMBERS. DETAILS FOR THESE CONNECTIONS SHALL BE SHOWN EVEN IF THE CUSTOM ELEMENT AND/OR CONNECTION IS SUPPLIED BY OTHERS.
C. THE LOCATION OF ALL COLUMNS, PORTAL FRAMES AND X-BRACING IN THE LONGITUDINAL BUILDING DIRECTION (I.E. DIRECTION PARALLEL TO ROOF RIDGE) MUST BE COORDINATED WITH THE STRUCTURAL ENGINEER OF RECORD PRIOR TO PREPARING SHOP DRAWINGS.

MISCELLANEOUS INFORMATION:

A. ALL INFORMATION IN THE METAL BUILDING SPECIFICATION SHALL ALSO BE APPLICABLE. IN THE EVENT OF A CONFLICT BETWEEN THESE REQUIREMENTS, THE CONTRACT DRAWINGS AND / OR PROJECT SPECIFICATIONS THAT HAVE NOT BEEN CLARIFIED BY THE A/E, THE MORE STRINGENT REQUIREMENT SHALL APPLY AND BE FOLLOWED BY THE BUILDING SUPPLIER, UNLESS SPECIFICALLY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR CLARIFICATION AND/OR FURTHER INSTRUCTION.

M. NOTICE

THE USE OF REPRODUCTION OF THESE CONTRACT DRAWINGS BY THE CONTRACTOR, SUB-CONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARED SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING FROM ANY ERRORS THAT MAY BE PRESENT HEREON.

IN THE EVENT OF CONFLICTING OR DIFFERING REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS THAT HAVE NOT BEEN CLARIFIED OR CHANGED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY, GREATER QUANTITY, OR MORE STRINGENT UNLESS DIRECTED OTHERWISE BY ARCHITECT/ENGINEER.

N. DRIVEN TIMBER PILES

ALL PILES SHALL BE AS PER DETAILS PER ASTM D25-91 TABLE 1 WITH MINIMUM TIP DIAMETER OF 7" AND MINIMUM BUTT DIAMETER OF 12".

ADJACENT STRUCTURES SHALL BE PHOTOGRAPHED BEFORE AND AFTER PILE DRIVING OPERATIONS TO VERIFY THAT NO DAMAGE HAS OCCURRED TO THESE BUILDINGS. CONTRACTOR SHALL REPAIR ALL SUCH DAMAGES AT NO COST TO THE OWNER.

A VULCAN NO. 1 HAMMER PROVIDING 15,000 FOOT - POUNDS OF ENERGY SHALL BE USED UNLESS OTHERWISE APPROVED BY ENGINEER. DRIVE PILES TO WITHIN 1' OF SPECIFIED CUT-OFF ELEVATION. REFUSAL WILL BE WHEN PILE HAS TWO CONSECUTIVE FEET OF A BLOW COUNT OF AT LEAST 25 BLOWS PER FOOT. IMMEDIATELY USE FOLLOWER AS REQUIRED TO DRIVE PILE TO SPECIFIED CUT-OFF ELEVATION PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE NEXT PILE.

CONTRACTOR TO ASSUME A PREDRILL OF 45FT WITH A 5" DIAMETER WET ROTARY DRILL FOR BIDDING PURPOSES. ACTUAL PRE-DRILL DEPTHS WILL BE DETERMINED DURING THE PROBE PILE PROGRAM.

PILES SHALL BE DRIVEN TO WITHIN 3" OF INDICATED PLAN LOCATION AND SHALL MAINTAIN A PLUMBNESS OF 1" IN 10' OR 4" MAXIMUM UNLESS SPECIFIED TO BE BATTERED.

REPLACE ANY MIS-DRIVEN OR DAMAGED PILES AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.

A TOTAL OF SIX (6) PROBE PILES ARE TO BE DRIVEN AT THE LOCATIONS NOTED ON THE FOUNDATION PLAN. PROBE PILES SHALL NOT BE PRODUCTION PILES.

TREATED TIMBER PILE DESIGN LOAD IS 21 TONS. CONTRACTOR SHALL PAY FOR AND CONDUCT ONE STATIC LOAD TESTS TO FAILURE ON THE PROBE PILE IN ACCORDANCE WITH ASTM D1143 - SEE SPECIFICATIONS. OWNER SHALL PAY FOR A TESTING LAB TO SET UP AND MONITOR A SEISMOGRAPH MACHINE AT ANY STRUCTURE WITHIN 200' TO MONITOR VIBRATIONS DURING PILE INSTALLATION. SUBMIT RESULTS IMMEDIATELY TO ARCHITECT AND ENGINEER. SEISMOGRAPH MONITORING WILL NOT BE REQUIRED IF THERE ARE NO EXISTING STRUCTURES WITHIN 200' OF PILE DRIVING OPERATIONS.

ABBREVIATIONS

@ ---------- AT
A/E ---------- ARCHITECT/ENGINEER
A.F.F. ---------- ABOVE FINISHED FLOOR
ARCH. ---------- ARCHITECTURAL
BM. ---------- BEAM
B.O.C. ---------- BEAM ON COLUMN
B.O.S. ---------- BOTTOM OF STEEL
BOT. ---------- BOTTOM
BTM. ---------- BOTTOM
C.F.M.F. OR CFMF --- COLD-FORMED METAL FRAMING
C.G OR CG ---------- CENTER OF GRAVITY
C.L. OR CL ---------- CENTER LINE
C.O.B. ---------- COLUMN ON BEAM
COL. ---------- COLUMN
CONT. ---------- CONTINUOUS
CONNX. ---------- CONNECTION
D.B. ---------- DIAGONAL BRACE
EL. ---------- ELEVATION
ELEV.---------- ELEVATION
ELEC. ---------- ELECTRICAL
E.O.A. ---------- EDGE OF ANGLE
E.O.R. ---------- ENGINEER OF RECORD
E.O.S. ---------- EDGE OF SLAB
F.F. ---------- FINISH FLOOR
FIN. FLR. ---------- FINISH FLOOR
GA. ---------- GAGE
GR. BM. ---------- GRADE BEAM
H.S.A. OR HSA ------- HEADED STUD ANCHOR
H.S.A.S.---------- HEADED STUD ANCHORS
L.G.---------- LIGHT GAGE
M.B.S.---------- METAL BUILDING SUPPLIER
MECH. ---------- MECHANICAL
MEP---------- MECHANICAL, ELECTRICAL, PLUMBING
O.C. ---------- ON CENTER
O.C.E.W. ---------- ON CENTER EACH WAY
PEMBS ---------- PRE-ENGINEERED METAL BUILDING SUPPLIER
PL. ---------- PLATE
P.T. ---------- POST TENSION OR POST-TENSIONED
POST-TENS ---------- POST TENSION OR POST-TENSIONED
SIM. ---------- SIMILAR
T.O. ---------- TOP OF
T.O.C. ---------- TOP OF CONCRETE
T.O.J. ---------- TOP OF JOIST
T.O.S. ----------TOP OF SLAB
U.N.O. ----------UNLESS NOTED OTHERWISE
V.O.J. ----------VERIFY ON JOBSITE
W/ ---------- WITH
WWF ---------- WELDED WIRE FABRIC

FIELD VERIFICATIONS

CONTRACTOR TO FIELD MEASURE ALL NEEDED DIMENSIONS PRIOR TO ORDERING MATERIAL.

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DETAILS, GEOMETRY, DIMENSIONS, AND ELEVATIONS PRIOR TO ORDERING/FABRICATION OF MATERIALS. CONTACT ARCHITECT AND ENGINEER IMMEDIATELY IF ANY DIMENSIONS, DETAILS, OR ELEVATIONS ARE NOT FOUND TO MATCH THOSE SHOWN ON THE PLANS.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

GENERAL NOTES

seal: STATE OF LOUISIANA — JOHN P. GUIDRY — License No. 36314 — PROFESSIONAL ENGINEER — CIVIL ENGINEERING

project number	21238.00
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phase	BID DOCUMENTS

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CONCRETE MIX REQUIREMENTS

USAGE	AGGREGATE	MIN. CEMENT (lb/yd)	SLUMP (inches)	7 DAY STR. (psi)	28 DAY STR. (psi)	WATER REDUCER	REMARKS
PILE CAPS	(1)	583	4	3300	5000	(B)	
GRADE BEAMS	(1)	489	4	2000	3000	(B)	
SLAB	(1)	545	7	2700	4000	(A)	
DRY BOTTOMS					500		
ALL OTHERS	(1)	545	7	2700	4000	(A)	

(1) REGULAR SAND AND GRAVEL (145 pcf)

(A) MID-RANGE WATER REDUCER

(B) CONTRACTOR'S OPTION - IF WATER REDUCER IS USED, THEN SLUMP SHALL BE 7".

(C) SUPER PLASTICIZER

WARNING: DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING CONCRETE PLACEMENT.

NOTES:

THE SLUMP IN THE TABLE ABOVE IS GIVEN AT POINT OF PLACEMENT. THE ALLOWABLE TOLERANCE FOR SLUMP IS PLUS OR MINUS ONE INCH FROM THE VALUES GIVEN IN THE TABLE.

IF SUPER PLASTICIZER IS USED, THE SLUMP SHALL BE 3" PRIOR TO ADDITION OF THE SUPER PLASTICIZER.

CONCRETE NOT MEETING THE SPECIFIED SEVEN DAY STRENGTH SHALL EITHER BE REMOVED OR CONSTRUCTION MUST BE STOPPED IN THE QUESTIONABLE AREA UNTIL THE 28 DAY TEST VALUES HAVE BEEN APPROVED.

SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

REFERENCE SPECIFICATION SECTION 03 3000- FOR PROPORTIONING AND DESIGN OF MIXES.

REBAR LAP SPLICE REQUIREMENTS (MIN.)

LOCATION	BEAMS AND FOUNDATIONS		WALLS AND SLABS	
BAR \ f'c	3000 PSI	4000 PSI	3000 PSI	4000 PSI
#3	22"	19"	16"	16"
#4	29"	25"	17"	16"
#5	36"	31"	26"	22"
#6	36"	36"	36"	36"
#7	42"	42"	42"	42"
#8	42"	42"	42"	42"

GENERAL NOTES:

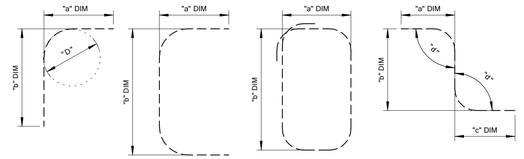
LAP SPLICE LENGTHS ABOVE APPLY TO ALL REINFORCING BARS FOR THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE PLANS.

ALL LAP SPLICES PROVIDED ABOVE ARE FOR NORMAL WEIGHT CONCRETE AND GRADE 60 REINFORCING BARS IN TENSION. SPLICES FOR WALL AND SLAB BARS ARE BASED ON A MINIMUM OF 1" CLEAR COVER.

FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.

LAP SPLICES FOR GRADE BEAM TOP BARS SHALL BE PLACED IN THE CENTER OF THE SPAN BETWEEN DRILLED SHAFTS (OR PILES). LAP SPLICES FOR GRADE BEAM BOTTOM BARS SHALL BE PLACED DIRECTLY ABOVE A DRILLED SHAFT (OR PILE).

STANDARD BAR BEND DIAGRAMS



L BAR U BAR TIES AND HOOPS Z BAR ("d" = 90 DEGREES IF NOT PROVIDED)

NOTES:

SEE DETAILS AND KEYNOTES FOR DIMENSIONS OF ALL BARS AND TIES.

WHERE "a" AND "b" DIMENSIONS ARE NOT GIVEN, BASE DIMENSIONS ON CLEAR COVER DIMENSIONS FROM OUTER EDGE OF CONCRETE.

UNLESS NOTED OTHERWISE, ALL BAR BEND DIAMETERS ("D") SHALL BE IN ACCORDANCE WITH LATEST VERSION OF ACI 318.

COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF)

ZONE / EWA (FT^2)	ROOF						WALLS				OVERHANG			
	1		2		3		4		5		2		3	
< 10	-54	20	-62	20	-83	20	-49	45	-61	45	-75	20	-116	20
20	-54	19	-61	19	-76	19	-47	45	-57	45	-73	19	-104	19
50	-54	16	-59	16	-66	16.0	-45	41	-51	41	-72	16	-87	16
100	-54	16	-58	16	-58	16.0	-43	39	-47	39	-71	16	-75	16
200	-54	16	-58	16	-58	16.0	-41	37	-43	37	-71	16	-75	16
>500	-54	16	-58	16	-58	16.0	-38	34	-38	34	-71	16	-75	16

NOTES:

1. EWA IS EFFECTIVE WIND AREA OF A STRUCTURAL COMPONENT.
2. FOR ZONE DEFINITIONS, SEE ASCE 7-10 FIGURES 30.4 - (AS APPLICABLE)
3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACE RESPECTIVELY.
4. EDGE WIDTH DIMENSION "a" = 9'.
5. LINEAR INTERPOLATION MAY BE USED BETWEEN EWA VALUES PROVIDED IN TABLE ABOVE.
6. PRESSURES IN TABLE ABOVE ARE BASED ON LATERAL DESIGN-WIND PARAMETER IN GENERAL NOTES.

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Revisions

No.	Description	Date

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WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

SCHEDULES

seal: STATE OF LOUISIANA — JOHN P. GUIDRY — License No. 36314 — PROFESSIONAL ENGINEER — CIVIL ENGINEERING

project number: 21238.00

date: 10-15-2018

phase: BID DOCUMENTS

drawing number: S602

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MECHANICAL ABBREVIATIONS

ABBREVIATIONS		ABBREVIATED TERM
(E)	-	EXISTING
(F)	-	FUTURE
(N)	-	NEW
A/C	-	AIR COOLED CHILLER
ABV	-	ABOVE
AFF	-	ABOVE FINISHED FLOOR
AFMS	-	AIRFLOW MEASURING STATION
AFR	-	ABOVE FINISHED ROOF
AHU	-	AIR HANDLING UNIT
AP	-	ACCESS PANEL
APPROX	-	APPROXIMATE
ARCH	-	ARCHITECTURAL
ATC	-	AUTOMATIC TEMPERATURE CONTROL PANEL
AVG	-	AVERAGE
BHP	-	BRAKE HORSEPOWER
BI	-	BACKWARD INCLINE
BO	-	BLANK OFF
BTU	-	BRITISH THERMAL UNIT
BTUH	-	BRITISH THERMAL UNITS PER HOUR
CAV	-	CONSTANT AIR VOLUME
CC	-	COOLING COIL
CD	-	CEILING DIFFUSER
CE	-	CEILING EXHAUST
CFF	-	CAP FOR FUTURE
CFH	-	CUBIC FEET PER HOUR
CFM	-	CUBIC FEET PER MINUTE
CG	-	CEILING GRILLE
CHR	-	CHILLED WATER RETURN
CHS	-	CHILLED WATER SUPPLY
CHWR	-	CHILLED WATER RETURN
CHWS	-	CHILLED WATER SUPPLY
CO	-	CLEANOUT (DOOR)
COEFF	-	COEFFICIENT
COND	-	CONDENSATE
CONT	-	CONTINUATION
COP	-	COEFFICIENT OF PERFORMANCE
CP	-	CONDENSATE PUMP
CR	-	CEILING REGISTER
CU	-	CONDENSING UNIT
CWR	-	CONDENSER WATER SUPPLY
CWS	-	CONDENSER WATER RETURN
DB	-	DRY BULB TEMPERATURE
dB	-	DECIBLES
DDC	-	DIRECT DIGITAL CONTROLS
DN	-	DOWN
DWG	-	DRAWING
DX	-	DIRECT EXPANSION
EA	-	EXHAUST AIR
EAD	-	EXHAUST AIR DUCT OR DAMPER
EAT	-	ENTERING AIR TEMPERATURE
EAV	-	EHAUST AIR VALVE
EDB	-	ENTERING DRY BULB TEMPERATURE
EF	-	EXHAUST FAN
EFF	-	EFFICIENCY
EG	-	EXHAUST GRILLE
EWB	-	ENTERING WET BULB TEMPERATURE (°F)
EWT	-	ENTERING WATER TEMPERATURE (°F)
EXH	-	EXHAUST
EXP	-	EXPANSION
F/SD	-	COMBINATION FIRE/SMOKE DAMPER
FA	-	FIRE ALARM
FC	-	FLEXIBLE CONNECTION
FCU	-	FAN COIL UNIT
FD	-	FIRE DAMPER
FLA	-	FULL LOAD AMPS
FLR	-	FLOOR
FPM	-	FEET PER MINUTE
FPS	-	FEET PER SECOND
FT	-	FEET
GPH	-	GALLONS PER HOUR
GPM	-	GALLONS PER MINUTE
HC	-	HEATING COIL
HD	-	HEAD
HGT	-	HEIGHT
HP	-	HORSEPOWER
HVAC	-	HEATING, VENTILATION, AND AIR CONDITIONING
HWR	-	HOT WATER RETURN
HWS	-	HOT WATER SUPPLY
HX	-	HEAT EXCHANGER

MECHANICAL ABBREVIATIONS

ABBREVIATIONS		ABBREVIATED TERM
KEF	-	KITCHEN EXHAUST FAN
KSF	-	KITCHEN SUPPLY FAN
KW	-	KILOWATT
KWH	-	KILOWATT HOUR
LAT	-	LEAVING AIR TEMPERATURE
LD	-	LINEAR DIFFUSER
LS	-	LINEAR SLOT DIFFUSER
LVR	-	LOUVER
LWT	-	LEAVING WATER TEMPERATURE
MAT	-	MIXED AIR TEMPERATURE
MAU	-	MAKEUP AIR UNIT
MBD	-	MANUAL BALANCE DAMPER
MBH	-	THOUSANDS OF BTU PER HOUR
MCA	-	MINIMUM CIRCUIT AMPS
MFG	-	MANUFACTURER
MIN	-	MINIMUM
MVD	-	MANUAL VOLUME DAMPER
N/A	-	NOT APPLICABLE
NC	-	NORMALLY CLOSED
NIC	-	NOT IN CONTRACT
NK	-	NECK
NO	-	NORMALLY OPEN or NUMBER
NTS	-	NOT TO SCALE
OA	-	OUTSIDE AIR
OAV	-	OUDSIDE AIR VALVE
PH	-	PHASE (ELECTRICAL)
POC	-	POINT OF CONNECTION
PRESS	-	PRESSURE
PRV	-	PRESSURE REDUCING VALVE
PSI	-	POUNDS PER SQUARE INCH
PSIG	-	POUNDS PER SQUARE INCH GAUGE
RA	-	RETURN AIR
RAD	-	RETURN AIR DUCT
RAF	-	RETURN AIR FAN
RCVR	-	RECEIVER
RF	-	RETURN FAN
RG	-	RETURN GRILLE
RH	-	RELATIVE HUMIDITY
RPM	-	ROTATIONS PER MINUTE
SA	-	SUPPLY AIR
SAD	-	SUPPLY AIR DUCT
SAF	-	SUPPLY AIR FAN
SCD	-	SMOKE CONTROL DAMPER
SD	-	SMOKE DAMPER
SP	-	STATIC PRESSURE
SPEC	-	SPECIFICATION
SQ	-	STATIC PRESSURE
SR	-	SIDEWALL REGISTER
SS	-	STAINLESS STEEL
STD	-	STANDARD
SWE	-	SIDEWALL EXHAUST GRILLE
SWR	-	SIDEWALL RETURN GRILLE
SWS	-	SIDEWALL SUPPLY GRILLE
SYM	-	SYMBOL
SYS	-	SYSTEM
TEMP	-	TEMPERATURE
TOT	-	TOTAL
TT	-	TEMPERATURE TRANSMITTER
TYP	-	TYPICAL
U.C.	-	UNDERCUT
UH	-	UNIT HEATER
UON	-	UNLESS OTHERWISE NOTED
V	-	VOLTAGE
VA	-	VALVE
VAV	-	VARIABLE AIR VOLUME
VERT	-	VERTICAL
VFD	-	VARIABLE FREQUENCY DRIVE
VOL	-	VOLUME
W	-	WATTS
W/O	-	WITHOUT
WB	-	WET BULB TEMPERATURE (°F)
WR	-	WALL RETURN
WS	-	WALL SUPPLY
WT	-	WEIGHT
WTR	-	WATER
°F	-	DEGREES FAHRENHEIT
ΔP	-	PRESSURE DROP or DIFFERENTIAL
ΔT	-	TEMPERATURE DIFFERENTIAL

GENERAL MECHANICAL NOTES

1. GENERAL NOTES SHALL APPLY TO ALL HVAC DRAWINGS.
2. ALL SHEET REFERENCE NOTES INDICATED ON THE DRAWINGS AS "TYPICAL" ARE TO BE CONSIDERED AS SHOWN AT ALL OTHER SIMILAR CONDITIONS WHETHER NOTED OR NOT.
3. ALL HVAC WORK SHALL BE COMPLETE AND READY FOR SATISFACTORY SERVICE.
4. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING STATE AND LOCAL FIRE AND BUILDING CODES, AND NFPA CODE 101/99. THESE CODES SHALL BE FOLLOWED AS A MINIMUM, PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION, AND LOCAL REGULATOR CODES.
5. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE GENERAL ARRANGEMENT OF THE WORK.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, AND WORK SCHEDULING ASSOCIATED WITH THE INSTALLATION OF THE HVAC SYSTEMS. CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF JOB-SITE SAFETY.
7. EXAMINE THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR OMISSIONS RESULTING FROM THE FAILURE TO COMPLETELY EXAMINE THE SITE.
8. VERIFY THE SIZE AND LOCATION OF ALL EXISTING SERVICES. NOTIFY THE ENGINEER OF ALL DISCREPANCIES THAT EXIST BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING SERVICES BEFORE MAKING ANY CONNECTIONS TO THE EXISTING SERVICES.
9. COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS AND FLASHING REQUIREMENTS WITH THE WORK OF OTHER TRADES.
10. ROUTE PIPING AND DUCT SYSTEMS PARALLEL AND PERPENDICULAR TO THE BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED. MOUNT AS CLOSE AS POSSIBLE TO THE UNDERSIDE OF THE BUILDING STRUCTURE.
11. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PARTITIONS, WALLS, PLUMBING FIXTURES, AND GENERAL CONSTRUCTION. INSTALL ALL PIPING AND DUCTWORK TO AVOID ARCHITECTURAL FRAMING, STRUCTURAL MEMBERS, AND OTHER OBSTRUCTIONS. COORDINATE PIPING AND DUCTWORK LOCATION WITH ALL APPLICABLE CONTRACT DRAWINGS PRIOR TO PLACING SLEEVES IN FLOORS OR WALLS.
12. MECHANICAL DUCTWORK TAKES PRECEDENT OVER ALL OTHER SYSTEMS INSTALLED IN CEILING. COORDINATE THE INSTALLATION OF THE HVAC SYSTEMS WITH THE WORK OF OTHER TRADES. PROVIDE OFFSETS IN PIPING AND DUCTWORK AS REQUIRED AT NO ADDITIONAL COST TO AVOID OBSTRUCTIONS AND ENSURE ALL SYSTEMS FIT IN ALLOCATED SPACE. PROVIDE COORDINATED SHOP DRAWINGS PER SPECIFICATION FOR REVIEW PRIOR TO INSTALLATION.
13. CONTRACTOR IS CAUTIONED NOT TO FABRICATE OR INSTALL ANY DUCTWORK UNTIL DUCTWORK SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY ARCHITECT. REPRODUCTION OF CONTRACT DOCUMENTS IS NOT ACCEPTABLE.
14. MOUNT ROOM SENSORS AND SWITCHES AT 4'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
15. SUPPORT ALL EQUIPMENT FROM THE BUILDING STRUCTURE TO PROVIDE A VIBRATION-FREE INSTALLATION. PROVIDE ALL CONCRETE PADS, SPECIAL SUPPORTS AND ANCHORING FOR ALL MECHANICAL EQUIPMENT REQUIRING SUCH.
16. THE CONTRACTOR SHALL WARRANT ALL WORK FOR A PERIOD OF ONE (1) YEAR FOLLOWING ACCEPTANCE OF THE WORK BY THE BUILDING OWNER/BUILDING MANAGEMENT OR AS DEFINED IN THE SPECIFICATIONS, WHICHEVER IS GREATER.
17. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INTERNAL AIRFLOW DIMENSIONS. INCREASE THE SHEET METAL DUCTWORK DIMENSIONS BY 2" TO ACCOMMODATE 1" DUCT LINER WHERE REQUIRED. INCREASE THE SAME DIMENSIONS BY 4" WHEN INSTALLING DUCT WORK WITH EXTERIOR WRAP INSULATION.
18. MAX FLEXIBLE DUCT RUN TO DIFFUSERS SHALL NOT EXCEED 6'-0". PROVIDE SHEET METAL RUN-OUTS AS REQUIRED TO ENSURE THIS REQUIREMENT IS MET. PROVIDE "FLEX-FLOW ELBOWS" AT ALL CEILING DIFFUSERS TO LIMIT LOW AIRFLOW ISSUES ASSOCIATED WITH FLEXIBLE DUCT KINKAGE.
19. RUN-OUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK SIZE. PROVIDE TAKE-OFF FITTING WITH MANUAL DAMPER (FLEXMASTER STOD OR EQUAL) AT TRUNK DUCT FOR ALL DIFFUSER BRANCH CONNECTIONS.
20. COORDINATE LOCATIONS OF ALL DEVICES IN CEILING WITH ARCHITECTURAL RCP. LOCATIONS OF ALL DEVICES IN CEILING SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
21. FIRESTOP ALL PENETRATIONS THROUGH FIRE-RESISTANCE-RATED WALLS, FLOORS, OR ASSEMBLIES IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS.
22. PROVIDE 1/2" MESH ALUMINUM SCREEN OVER THE OPENING OF ALL OPEN-ENDED DUCTWORK.
23. PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE. SEAL ENDS OF OPEN DUCTWORK AND PIPING DURING CONSTRUCTION TO PREVENT ENTRY OF MOISTURE, DUST, DEBRIS, ETC. REPLACE INSULATION THAT HAS GOTTEN WET AT ANY TIME DURING CONSTRUCTION. DRYING INSULATION IS NOT ACCEPTABLE.
24. SEAL ALL PENETRATIONS THROUGH WATER PROOF CONSTRUCTION IN ACCORDANCE WITH THE WATERPROOFING MANUFACTURER'S INSTRUCTIONS. ALL WORK SHALL BE PERFORMED BY APPROVED CONTRACTORS IF REQUIRED BY THE MANUFACTURER TO MAINTAIN THE WARRANTY OF THE MATERIAL.
25. PROVIDE SLEEVES AND PATCH ALL DUCT PENETRATIONS THROUGH WALLS AND FLOORS TO MATCH THE EXISTING CONSTRUCTION. SLEEVE DIMENSIONS SHALL BE 1" LARGER THAT INSULATED DUCT DIMENSIONS. THE SPACE BETWEEN THE DUCT AND THE SLEEVE SHALL BE PACKED WITH MINERAL FIBER AND CAULKED.
26. ENSURE THAT ADEQUATE CLEARANCE EXISTS FOR THE INSTALLATION AND MAINTENANCE OF ALL WORK SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
27. PROVIDE ACCESS PANELS (INSTALLED IN WALLS OR CEILINGS) AND/OR ACCESS DOORS (INSTALLED IN DUCTWORK) THAT ARE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED HVAC DEVICES THAT MAY REQUIRE FUTURE INSPECTION, REPAIR, OR ADJUSTMENT. SIZE AND LOCATION TO BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR TO COORDINATE WITH ARCHITECTS CEILING ACCESS PANELS FOR ALL FIRE, SMOKE, AND VOLUME DAMPERS IN INACCESSIBLE CEILINGS AS REQUIRED.
28. IDENTIFY ALL HVAC PIPING AND EQUIPMENT AS TO ITS FUNCTION AND EQUIPMENT NUMBER INDICATED ON THE DRAWINGS.
29. IDENTIFY ALL PIPING-SYSTEMS WITH CYLINDRICAL SELF-COILING PLASTIC SHEET THAT SNAPS OVER PIPING INSULATION AND IS HELD TIGHTLY IN PLACE WITHOUT THE USE OF ADHESIVE TAPE OR STRAPS. PIPE IDENTIFICATION SHALL BE PROVIDED WITH FLOW ARROWS AND LETTERING THAT IS AT LEAST 1" HIGH.
30. IDENTIFY ALL HVAC EQUIPMENT WITH ENGRAVED, COLOR-CODED LAMINATED PLASTIC MARKERS WITH CONTACT-TYPE, PERMANENT ADHESIVE. MATCH EQUIPMENT SCHEDULES ON THE DRAWINGS AS CLOSELY AS POSSIBLE FOR EQUIPMENT DESIGNATIONS.
31. PROVIDE SLEEVES AND CAULK ALL PIPING PENETRATIONS THROUGH WALLS AND FLOORS AND PATCH TO MATCH THE ADJACENT CONSTRUCTION. PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL PIPING PENETRATIONS IN EXPOSED LOCATIONS.

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP OR DOWN	RL	REFRIGERANT LIQUID LINE
	RETURN DUCT UP OR DOWN	D	DRAIN LINE
	EXHAUST DUCT UP OR DOWN		PIPE ELBOW TURNED UP
	INSULATED FLEXIBLE DUCT		PIPE ELBOW TURNED DOWN
	LINED DUCTWORK		TEE OFF BOTTOM
	SQUARE TO ROUND TRANSITION		TEE OFF TOP
	ELBOW WITH TURNING VANES.		DIRECTION OF FLOW
	RADIUS ELBOW		PIPE SLOPES DOWN IN DIRECTION INDICATED
	SPLITTER DAMPER IN DUCT		UNION
	FLEXIBLE DUCT CONNECTION		PRESSURE GUAGE WITH COCK
	CEILING DIFFUSER		GLASS THERMOMETER
	RETURN AIR GRILLE		PRESS/TEMP TEST PORT
	EXHAUST AIR GRILLE WITH SQUARE OR ROUND NECK		THERMOMETER WELL
	SLOT DIFFUSER	FS	FLOW SWITCH
MD	MANUAL DAMPER	FM	FLOW METER
AD	AUTOMATIC DAMPER		STRAINER
SD	SMOKE DAMPER		GATE VALVE
FD	FIRE DAMPER (VERTICAL)		2-WAY CONTROL VALVE
FD	FIRE DAMPER (HORIZONTAL)		3-WAY CONTROL VALVE
FS	COMBINATION FIRE/SMOKE DAMPER (VERTICAL)		BALL VALVE
FS	COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)		CIRCUIT SETTER
	POINT BETWEEN DEMO & EXISTING TO REMAIN		PLUG VALVE
	POINT BETWEEN NEW & EXISTING WORK		GLOBE VALVE
C (CFM)	CUBIC FEET PER MINUTE		SELENOID VALVE
U	UNDERCUT IN DOOR		CHECK VALVE
T	TEMPERATURE SENSOR		BUTTERFLY VALVE
H	HUMIDITY SENSOR		BALANCING VALVE
TH	COMBINATION TEMP/HUMIDITY SENSOR		SIGHT GLASS
CO2	CARBON DIOXIDE SENSOR		REFRIGERANT EXPANSION VALVE
CO	CARBON MONOXIDE SENSOR		REFRIGERANT ANGLE AND GLOBE VALVE
CTL	EQUIPMENT CONTROLLER		PRESSURE REDUCING VALVE
MS	MANUAL SWITCH WITH SPRING WOUND TIMER		PRESSURE REGULATING VALVE
SP	STATIC PRESSURE SENSOR		PRESSURE RELIEF VALVE
DP	DIFFERENTIAL PRESSURE SENSOR		TEMP-PRESSURE RELIEF VALVE
CHS	CHILLED WATER SUPPLY		GUAGE COCK
CHR	CHILLED WATER RETURN		PET COCK (AIR VENT)
CWS	CONDENSER WATER SUPPLY		DRAIN COCK
CWR	CONDENSER WATER RETURN		EXPANSION JOINT
HWS	HOT WATER SUPPLY		FLEXIBLE PIPE CONNECTION
HWR	HOT WATER RETURN		CONCENTRIC REDUCER
PHWS	PRIMARY HOT WATER SUPPLY		ECCENTRIC REDUCER
PHWR	PRIMARY HOT WATER RETURN	ø	DIAMETER AND FLAT OVAL
RS	REFRIGERANT SUCTION LINE		

THIS IS A TYPICAL SCHEDULE. NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
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HVAC SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN — REG. NO. 38045 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEER

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: M001

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Dx SPLIT SYSTEM SCHEDULE - INDOOR UNIT

REMARKS:

1. PROVIDE SINGLE POINT POWER CONNECTION.
2. INDOOR UNIT SHALL BE POWERED THROUGH THE OUTDOOR UNIT.
3. PROVIDE CONDENSATE TRAP KIT

MARK	LOCATION	OUTDOOR UNIT	SUPPLY FAN DATA				COOLING CAPACITY				HEATING CAPACITY				ELECTRICAL					BASIS OF DESIGN		WEIGHT	REMARKS
			SUPPLY (CFM)	OA/MIN (CFM)	ESP (IWC)	MOTOR (HP)	TOT (MBH)	SENS (MBH)	EAT DB (°F)	EAT WB (°F)	EAT (°F)	LAT (°F)	ELEC AUX HEAT		VOLTAGE (V)	PHASE (φ)	FREQUENCY (Hz)	MCA	MOCP	MANUFACTURER	MODEL		
													CAP (kW)	STAGES									
DU-1	IT/DATA 121	CU-6	160	0		0.02	9.7	6.5	75.2	62.6					115	1	60			CARRIER	40MFC009---3	16	1., 2.
FC-1	CORRIDOR 112	CU-1	800	70	0.6	0.5	23.5	20.4	77.2	66.1	67	95	7.5	2	208	1	60	36.2	60	CARRIER	FE4ANF002	135	1., 3.
FC-2	STORAGE 107	CU-2	1200	200	0.6	0.5	34.9	25.5	78.5	67.5	64	95	11.3	3	208	1	60	54.2	80	CARRIER	FE4ANF003	150	1., 3.
FC-3	STORAGE 107	CU-3	1400	120	0.6	0.5	39.3	31.6	77.1	66.2	67	95	11.3	3	208	1	60	54.2	80	CARRIER	FE4ANF005	172	1., 3.
FC-4	STORAGE 107	CU-4	1400	0	0.6	0.5	41.1	36.7	76.1	65.1					208	1	60	5.4	15	CARRIER	FE4ANF005	172	1., 3.
FC-5	STORAGE 107	CU-5	1400	0	0.6	0.5	41.1	36.7	76.1	65.1					208	1	60	5.4	15	CARRIER	FE4ANF005	172	1., 3.

HVAC FANS SCHEDULE

REMARKS:

1. PROVIDE VIBRATION ISOLATION HANGING KIT.
2. DISCONNECT TO BE PROVIDED BY UNIT MANUFACTURER.
3. PROVIDE SOLID STATE SPEED CONTROLLER.
4. . FAN SHALL BE SWITCHED THROUGH LIGHT SWITCH IN THE BATHROOM.
5. FAN SHALL BE SWITCHED INDIVIDUALLY.

MARK	LOCATION	SYSTEM	TYPE	FAN DATA					SOUND DATA	ELECTRICAL DATA			BASIS OF DESIGN		WEIGHT (lbs)	REMARKS
				EA (CFM)	EXT SP (IWC)	FAN RPM	MOTOR (HP)	MOTOR (W)	SONES	VOLTAGE (V)	PHASE (φ)	FREQ (Hz)	MANUFACTURER	MODEL		
EF-1	REST. 108	RESTROOM EXHAUST	CEILING	70	0.5	950		80	3.5	120	1	60	GREENHECK	SP-B110	10	1., 2., 3., 4.
EF-2	MEN'S SHWR. 113	RESTROOM EXHAUST	CEILING	70	0.5	950		80	3.5	120	1	60	GREENHECK	SP-B110	10	1., 2., 3., 4.
EF-3	MEN'S SHWR. 113	RESTROOM EXHAUST	CEILING	70	0.5	950		80	3.5	120	1	60	GREENHECK	SP-B110	10	1., 2., 3., 4.
EF-4	MEN 104	RESTROOM EXHAUST	CEILING	70	0.5	950		80	3.5	120	1	60	GREENHECK	SP-B110	10	1., 2., 3., 4.
EF-5	WOMEN 103	RESTROOM EXHAUST	CEILING	70	0.5	950		80	3.5	120	1	60	GREENHECK	SP-B110	10	1., 2., 3., 4.
EF-6	WOMEN'S SHWR. 114	RESTROOM EXHAUST	CEILING	70	0.5	950		80	3.5	120	1	60	GREENHECK	SP-B110	10	1., 2., 3., 4.
EF-7	WOMEN'S SHWR. 114	RESTROOM EXHAUST	CEILING	70	0.5	950		80	3.5	120	1	60	GREENHECK	SP-B110	10	1., 2., 3., 4.
EF-8	APPARATUS BAYS 106	GENERAL EXHAUST	INLINE	4500	0.375	395	0.75		10.1	208	3	60	GREENHECK	BSQ-300-7	460	1., 2., 3., 4.
EF-9	APPARATUS BAYS 106	GENERAL EXHAUST	INLINE	4500	0.375	395	0.75		10.1	208	3	60	GREENHECK	BSQ-300-7	460	1., 2., 3., 4.
EF-10	APPARATUS BAYS 106	PLYMOVENT SYS	INLINE	2250	7	3500	5		10.1	208	3	60	PLYMOVENT	TEV-559-60	460	1., 2., 3., 4.

Dx SPLIT SYSTEM SCHEDULE - OUTDOOR UNIT

REMARKS:

1. PROVIDE LOW AMBIENT COOLING CONTROLS.
2. POWER INDOOR UNIT THROUGH OUTDOOR UNIT.

MARK	LOCATION	SERVICE	TONS	REFRIGERANT	ELECTRICAL					BASIS OF DESIGN		WEIGHT	REMARKS
					VOLTAGE (V)	PHASE (φ)	FREQUENCY (Hz)	MCA	MOCP	MANUFACTURER	MODEL		
CU-1	EQUIPMENT YARD	FC-1	2	R-410A	208	1	60	14.5	20	CARRIER	24ANB1624A0030	203	1.
CU-2	EQUIPMENT YARD	FC-2	3	R-410A	208	1	60	19.8	35	CARRIER	24ANB1636A0030	236	1.
CU-3	EQUIPMENT YARD	FC-3	3.5	R-410A	208	1	60	27.8	40	CARRIER	24ANB1648A0030	310	1.
CU-4	EQUIPMENT YARD	FC-4	3.5	R-410A	208	1	60	27.8	40	CARRIER	24ANB1648A0030	310	1.
CU-5	EQUIPMENT YARD	FC-5	3.5	R-410A	208	1	60	27.8	40	CARRIER	24ANB1648A0030	310	1.
CU-6	EQUIPMENT YARD	DU-1	0.75	R-410A	115	1	60	19	30	CARRIER	38MFC009-1	60	1., 2.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

REMARKS:

1. PROVIDE ACCESS PANEL AT MANUAL VOLUME DAMPER FOR DIFFUSERS MOUNTED IN GYPSUM BOARD CEILINGS WHERE BRANCH DUCT SERVING THE DIFFUSER IS ALSO ABOVE INACCESSIBLE CEILING.
2. ALL DIFFUSERS IN THE SAME ROOM OR SPACE SHALL HAVE THE SAME FACE/MODULE SIZE USING THE LARGEST SIZE OF THE SCHEDULED DIFFUSERS IN THAT SPACE.
3. FURNISH AND INSTALL BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE NOTED ON PLANS.
4. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
5. 4-WAY THROW PATTERN UNLESS OTHERWISE NOTED BY FLOW ARROWS ON DRAWINGS.

MARK	SERVICE	LOCATION	TYPE	AIRFLOW RANGE		NECK SIZE (INCH)			FACE		FINISH	MANUFACTURER	MODEL	REMARKS
				MIN. (CFM)	MAX (CFM)	DIA (ø)	L	W	LENGTH	WIDTH				
1S	SUPPLY	CEILING	THREE CONE DIFFUSER	0	120	6			12	12	BAKED ENAMEL	TITUS	TMS-AA	1., 2., 3., 4., 5.
2R	RETURN	CEILING	EGGCRATE	0	120	8			24	24	BAKED ENAMEL	TITUS	50F	1., 2., 3., 4.
2S	SUPPLY	CEILING	THREE CONE DIFFUSER	121	234	8			24	24	BAKED ENAMEL	TITUS	TMS-AA	1., 2., 3., 4., 5.
3R	RETURN	CEILING	EGGCRATE	121	234	10			24	24	BAKED ENAMEL	TITUS	50F	1., 2., 3., 4.
3S	SUPPLY	SIDEWALL	LOUVER	240	350		14	6			BAKED ENAMEL	TITUS	300FS	2., 3., 4.
4R	RETURN	CEILING	EGGCRATE	341	400	12			24	24	BAKED ENAMEL	TITUS	50F	1., 2., 3., 4., 5.
5R	RETURN	SIDEWALL	LOUVER	1250	1560		30	16			BAKED ENAMEL	TITUS	350FL	2., 3., 4.

GAS UNIT HEATER SCHEDULE

REMARKS:

1.
2.
3.
4.
5.

ACCESSORIES:

1. OSHA FAN GUARD.
2. LOUVER DIFFUSER.
3. WALL MOUNTED ROOM THERMOSTAT
4. WALL MOUNTED DISCONNECT SWITCH
5. HANGING KIT.

MARK	AIRFLOW DATA		HEATING DATA			ELECTRICAL CAPACITY				BASIS OF DESIGN		WEIGHT (LBS)	ACCESSORIES	REMARKS
	HEATING (CFM)	MOTOR (HP)	INPUT CAP (MBH)	OUTPUT CAP (MBH)	INLET GAS PRESS (IWC)	VOLTAGE (V)	PHASE (φ)	FREQUENCY (Hz)	FLA (A)	MANUFACTURER	MODEL			
UH-1	380	1/50	25	20	5 - 14	115	1	60	0.8	REZNOR	F	72	1., 2., 3., 4.,5.	
UH-2	380	1/50	25	20	5 - 14	115	1	60	0.8	REZNOR	F	72	1., 2., 3., 4.,5.	
UH-3	650	1/35	50	40	5 - 14	115	1	60	1.3	REZNOR	F	79	1., 2., 3., 4.,5.	

LOUVER SCHEDULE

REMARKS:

1. COORDINATE FINISH WITH ARCHITECT.
2. PROVIDE INSECT SCREEN.
3. COORDINATE FRAMING WITH EXTERIOR WALL CONSTRUCTION.

MARK	AIRFLOW (CFM)	FREE AREA (SF)	SIZE (INCH)		REMARKS
			L	W	
L1	4500	8.4	48	48	1., 2., 3.
L2	490	0.5	18	12	1., 2., 3.
L3	4500	1.6	32	18	1., 2., 3.
L4	390	0.6	20	12	1., 2., 3.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
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MECHANICAL SCHEDULES

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN — REG. NO. 38045 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEER

project number: 21238.00

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phase: BID DOCUMENTS

drawing number: M002

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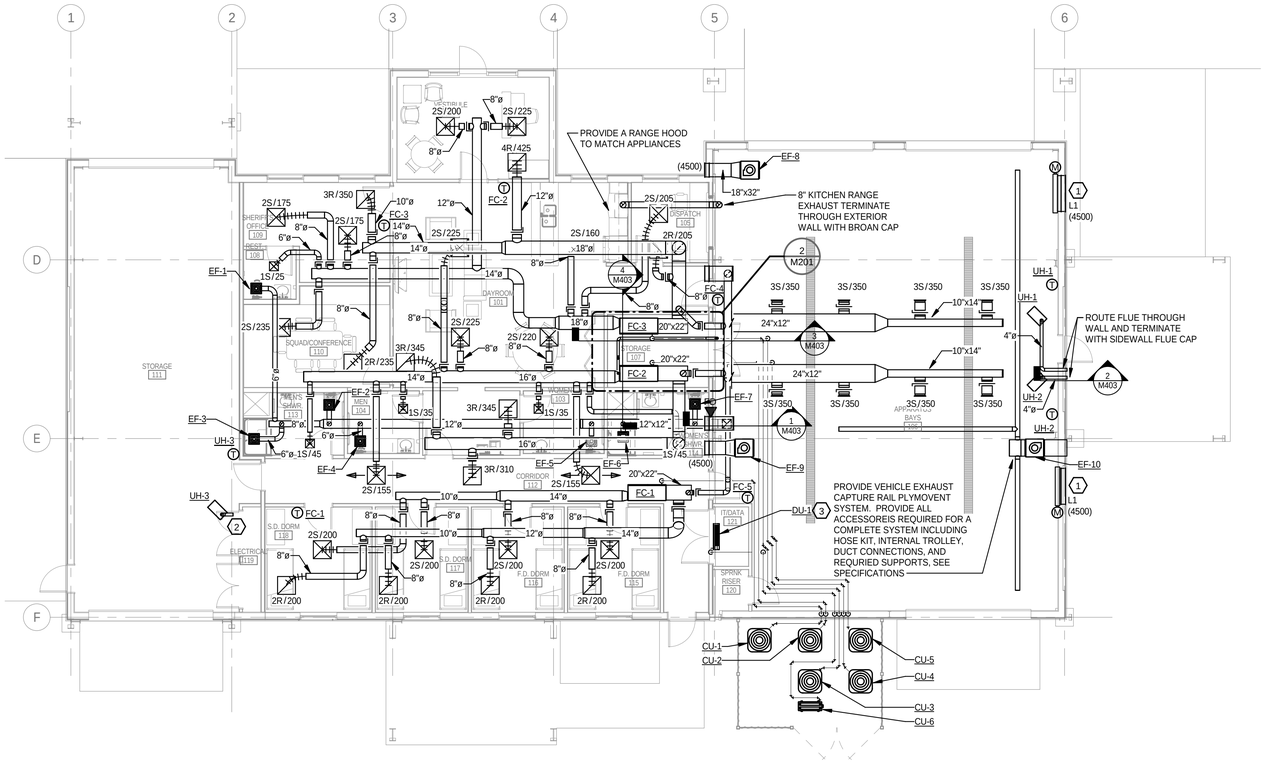
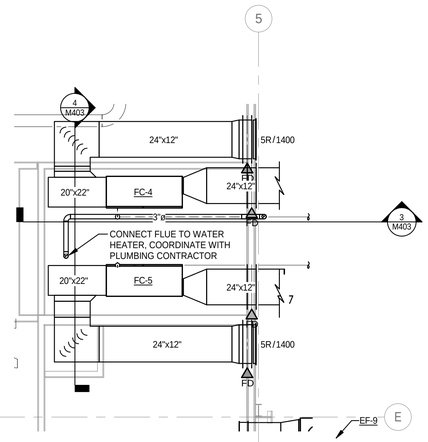


1 M201 HVAC PLAN
1/8" = 1'-0"



2 M201 HVAC PLAN - STACKED FAN COIL UNITS
1/4" = 1'-0"

SHEET REFERENCE NOTES

1. PROVIDE 48"x48" INTAKE LOUVER. PROVIDE SLEEVE WITH MOTORIZED DAMPER IN THE SLEEVE. THE DAMPER SHALL BE INTERLOCKED WITH EF-8 AND EF-9. LOUVER SHALL OPEN WHEN FAN IS ENGERGIZED. PROVIDE REQUIRED RELAYS TO CONTROL LOUVER DAMPER ACTUATOR. DAMPER ACTUATOR SHALL BE 120V.
2. ROUTE FLUE THROUGH EXTERIOR WALL ABOVE THE LOW ROOF.
3. COORDINATE LOCATION WITH IT EQUIPMENT. PUMP CONDENSATE TO NEAREST DRAIN.

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MECHANICAL PLAN

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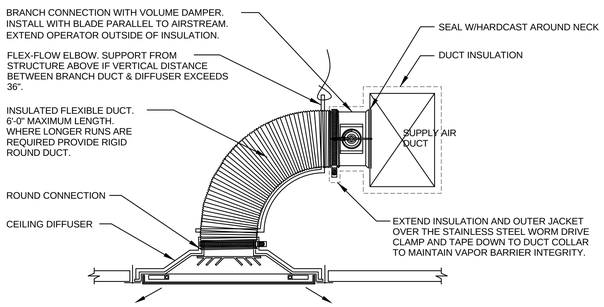
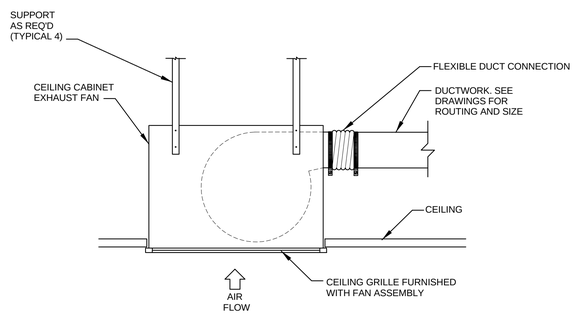


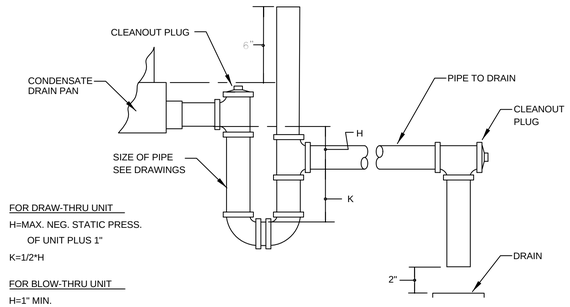
NOTES:

1. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
2. PROVIDE REGULATORS WHERE VOLUME DAMPER IS INACCESSIBLE. SEE DETAIL FOR ADDITIONAL INFORMATION.
3. IN UNCONDITIONED CEILING PLENUMS, INSULATE BACK OF DIFFUSER WITH 1" DUCT WRAP AND SEAL WITH VAPOR BARRIER TAPE.

1 CEILING DIFFUSER
M401 N.T.S.



2 CEILING EXHAUST FAN
M401 N.T.S.



FOR DRAW-THRU UNIT

H=MAX. NEG. STATIC PRESS. OF UNIT PLUS 1"

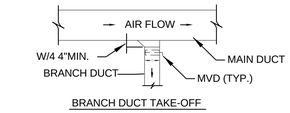
K=1/2*H

FOR BLOW-THRU UNIT

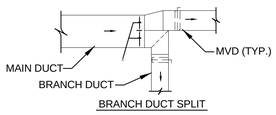
H=1" MIN.

K=1/2" PLUS MAX. TOTAL STATIC PRESSURE OF UNIT

3 CONDENSATE TRAP
M401 N.T.S.



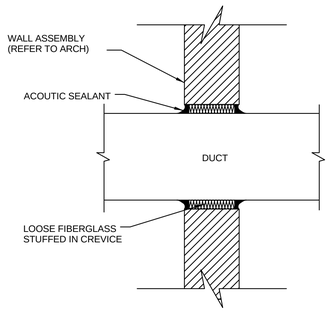
BRANCH DUCT TAKE-OFF



BRANCH DUCT SPLIT

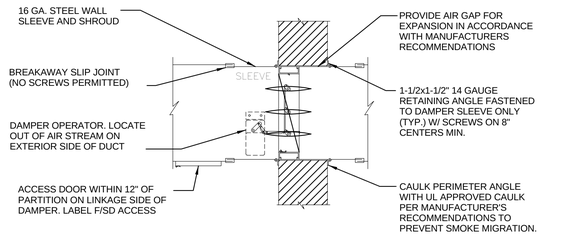
" DIMENSIONS /DRAWINGS

4 DUCT TAKE-OFF
M401 N.T.S.



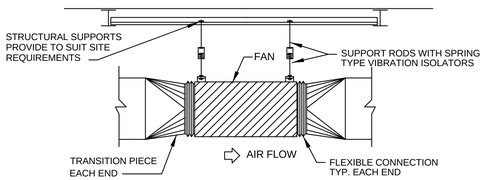
UTILIZE DETAIL FOR ALL NON-RATED WALLS AND PARTITIONS.

5 DUCT THRU WALL PENETRATION
M401 N.T.S.

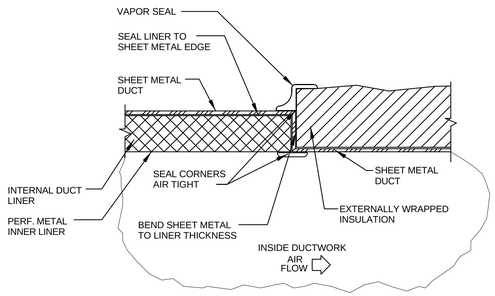


INSTALL DAMPER IN ACCORDANCE W/ MFRS. UL APPROVED INSTRUCTIONS.

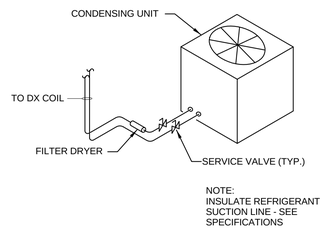
6 FIRE & SMOKE DAMPER
M401 N.T.S.



7 INLINE FAN
M401 N.T.S.



8 INTERNAL-EXTERNAL
M401 N.T.S.



NOTE:
INSULATE REFRIGERANT SUCTION LINE - SEE SPECIFICATIONS

9 CONDENSER COIL PIPING DETAIL
M401 N.T.S.

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MECHANICAL DETAILS

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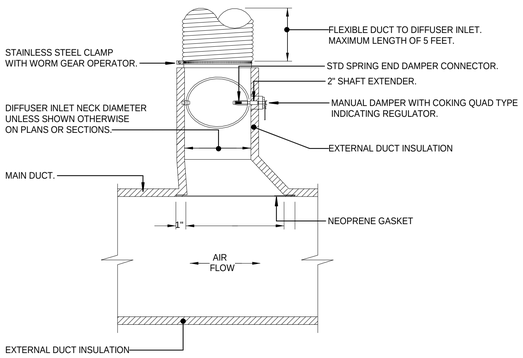
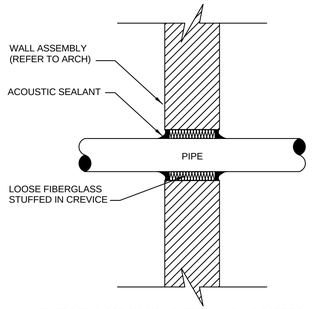
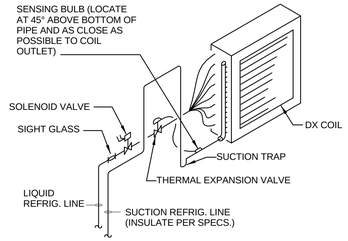


1 M402 LOW PRESSURE TAKE-OFF
N.T.S.

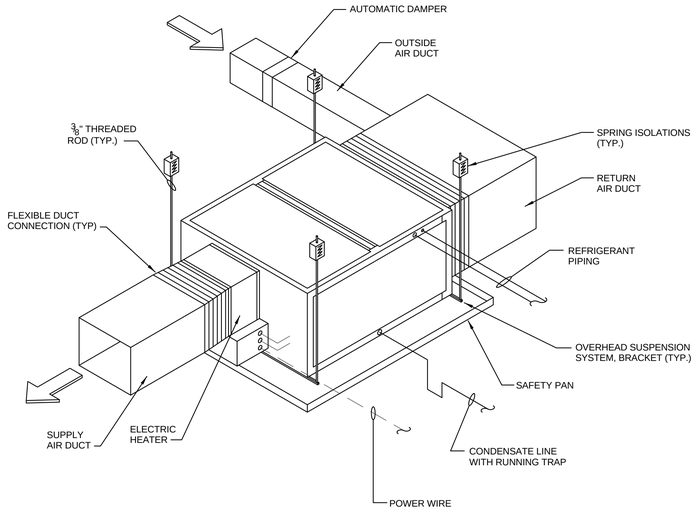


UTILIZE DETAIL FOR ALL NON-RATED WALLS AND PARTITIONS.

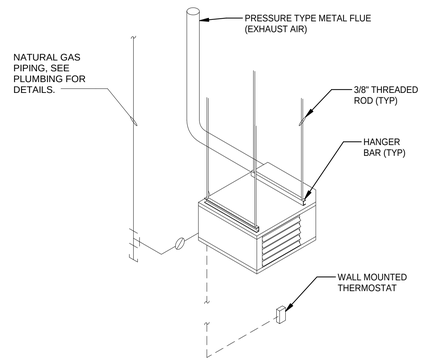
2 M402 PIPE THRU WALL ACOUSTIC PENETRATION
N.T.S.



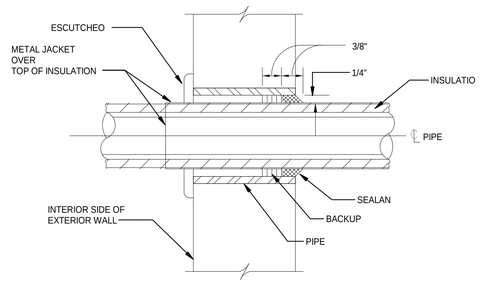
3 M402 REFRIGERANT COIL PIPING
N.T.S.



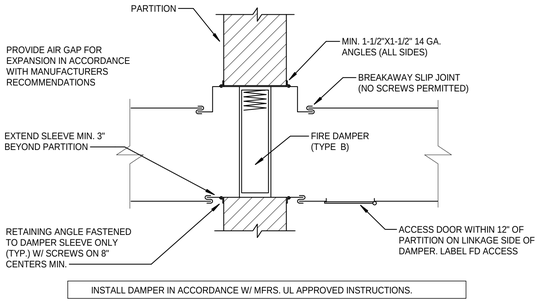
4 M402 TYPICAL HORIZONTAL AC UNIT CONNECTION DETAIL
N.T.S.



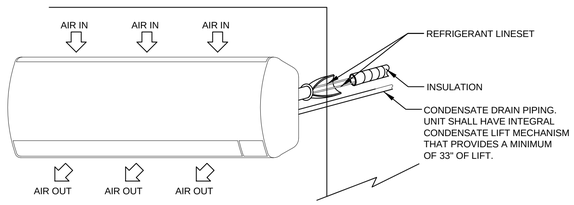
5 M402 GAS UNIT HEATER
N.T.S.



6 M402 PIPE THRU EXTERIOR WALL
N.T.S.

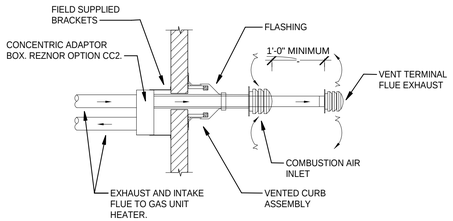


7 M402 WALL FIRE DAMPER DETAIL
N.T.S.



NOTES:
1. MOUNT INDOOR UNIT PER MANUFACTURER SPECIFICATIONS.
2. REFER TO MANUFACTURER SPECS FOR MIN. INSTALLATION CLEARANCES.

8 M402 WALL MOUNTED DUCTLESS SPLIT SYSTEM DETAIL
N.T.S.



9 M402 SEPARATED COMBUSTION AIR VENTING SYSTEM
N.T.S.

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MECHANICAL DETAILS

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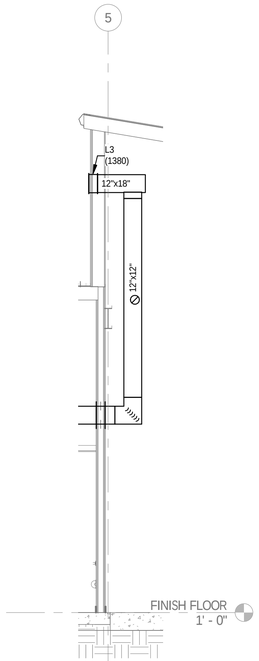
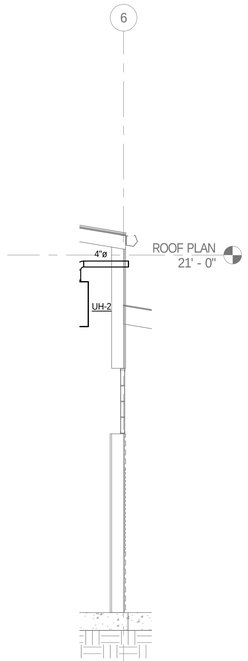
drawing number: M402

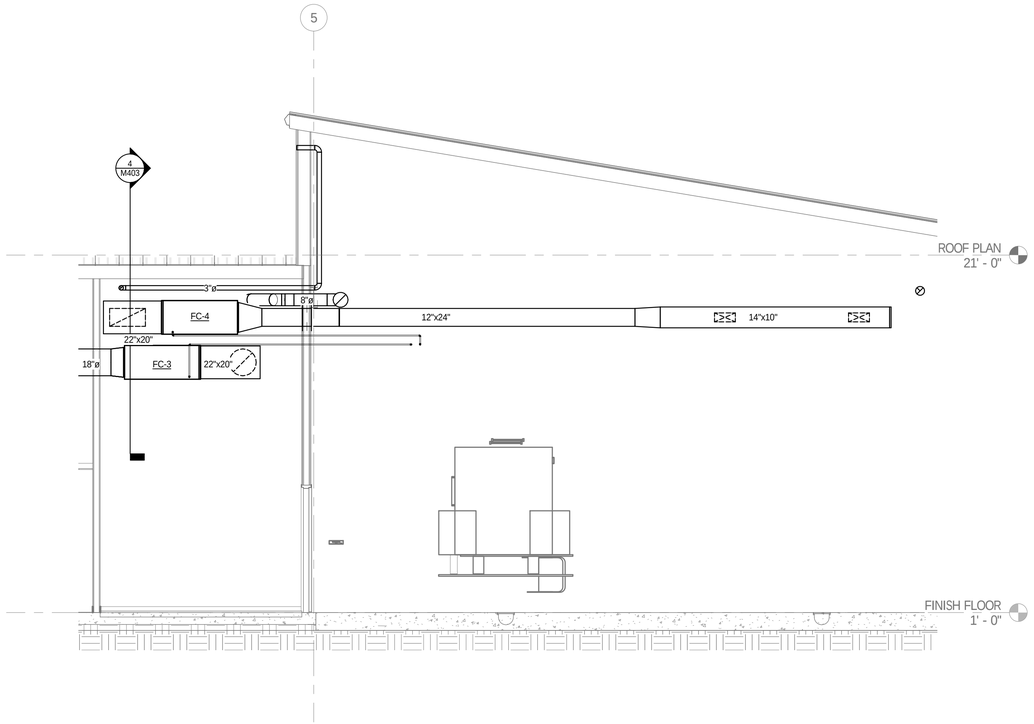
10/29/2018 3:49:42 PM



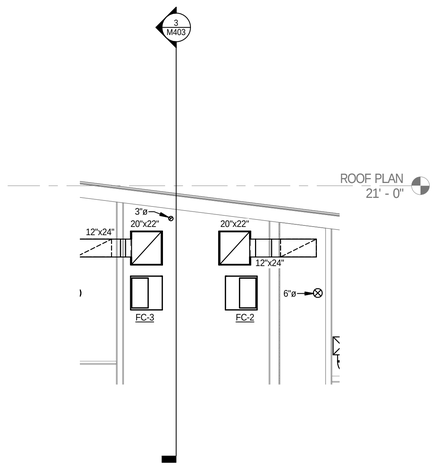


1 M403 SECTION A-A
1/4" = 1'-0"

2 M403 SECTION B-B
1/4" = 1'-0"



3 M403 SECTION C-C
1/4" = 1'-0"



4 M403 SECTION D-D
1/4" = 1'-0"

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
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MECHANICAL SECTIONS

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN — REG. NO. 38045 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEER

project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

drawing number: M403

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PUMP SCHEDULE

MARK	FLOW (GPM)	HEAD (FT)	MOTOR (HP)	MOTOR (RPM)	VOLT (V)	PHASE (φ)	MFR	MODEL
RP-1	8	12	0.50	3450	120	1	TACO	2400-40S

GAS-FIRED WATER HEATER SCHEDULE

REMARKS:
1.
2.
3.

MARK	TYPE	LOCATION	STORAGE (GAL)	RECOVERY (GAL/HR) 90°F RISE	THERMAL EFFICIENCY	INPUT (MBH)	OUTLET TEMP. (°F)	EXHAUST DIA. IN.	VOLTAGE (V)	PHASE (φ)	FREQUENCY (Hz)	MANUFACTURER	MODEL	REMARKS
GWH-1	TANK	STORAGE `07	50	95	94%	80	120	5	120	1	60	AO SMITH	BTX-80	

GENERAL PLUMBING NOTES

1. SET ALL FLOOR SINKS, OPEN SITE DRAINS, AND HUB DRAINS WITH THEIR RIM 1" HIGHER THAN THE SURROUNDING FLOOR. REFER TO DETAILS FOR FLOOR SINKS AND OPEN SITE DRAINS.
2. PLUMBING FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY FITTINGS, ANGLES STOPS, CARRIERS, ETC AS REQUIRED FOR A COMPLETE SERVICE. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FIXTURE LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED FIXTURES.
3. ALL PLUMBING WORK SHALL BE COMPLETE AND READY FOR SATISFACTORY SERVICE.
4. PROVIDE A SHUT OFF VALVE ON EACH DOMESTIC HOT & COLD WATER BRANCH FROM MAIN. NO FIXTURE OR GROUP OF FIXTURES SHALL BE CONNECTED TO MAIN WITHOUT MEANS OF ISOLATION. THESE VALVES SHALL BE PROVIDED WHETHER SHOWN ON DRAWINGS OR NOT. LOCATE VALVES, WATER HAMMER ARRESTERS AND TRAP-SEAL PRIMER VALVES FOR EASY ACCESS. IF EASY ACCESS IS NOT AVAILABLE, INSTALL METAL ACCESS PANEL. COORDINATE ACCESS PANELS WITH ARCHITECT.
5. ATTACH SELF ADHESIVE LABEL AT CEILING GRID OR ACCESS PANEL TO INDICATE LOCATION OF ALL ABOVE CEILING PLUMBING EQUIPMENT SUCH AS SHUT-OFF VALVES, WATER HEATERS, PUMPS, ETC.
6. PROTECTIVE SHEILD PIPE COVERS COMPLAINT WITH ADA REQUIREMENTS OR PROTECTIVE SHIELDING PIPING ENCLOSURE COMPLIANT WITH ADA REQUIREMENTS SHALL BE PROVIDED FOR ALL ACCESSIBLE SINKS AND LAVATORIES THAT CAN BE APPROACHED AND USED BY PEOPLE WITH DISABILITIES.
7. THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO DEPICT THE GENERAL LOCATION OF THE PLUMBING SYSTEM COMPONENTS. THE CONTRACTOR SHALL MAKE ADJUSTMENTS FOR SPACE REQUIREMENTS AND CONFLICTS WITH OTHER TRADES AND SHALL OBTAIN APPROVAL FROM THE ARCHITECT FOR ANY VARIATION FROM THE INDICATED LOCATIONS.
8. ALL PLUMBING MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

PLUMBING SHEET INDEX

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	CW CONNECTION	HW CONNECTION	WASTE CONNECTION	VENT CONNECTION	BASIS OF DESIGN		ACCESSORIES	REMARKS
						MANUFACTURER	MODEL		
CO	CLEAN OUT			4"		ZURN	Z-1400-VP		
EWC-1	ELECTRIC WATER COOLER	3/4"		2"	2"	SEE SPECIFICATIONS			
FD-1	FLOOR DRAIN					ZURN	ZN-415-P-VP-B		
FD-2	FLOOR DRAIN WITH FUNNEL					ZURN	Z-415-P-VP-E		
IMB-1	ICE MAKER BOX	3/4"				IPS CORPERATION	SSIB1AB		
L-1	LAVATORY	3/4"	3/4"	2"	2"	SEE SPECIFICATIONS			
SH-1	SHOWER	3/4"	3/4"	2"	2"	SEE SPECIFICATIONS			
TD-1	TRENCH DRAIN					NDS	PRO SERIES 12" CAST IRON HEAVY TRAFFIC CHANNEL GRATE		
WC-1	WATER CLOSET	1 1/2"		4"	3"	SEE SPECIFICATIONS			
WH-1	WALL HYDRANT	3/4"				JR SMITH	5519		

PLUMBING ABBREVIATIONS

(E)	-	EXISTING
(N)	-	NEW
AD	-	AREA DRAIN
AFF	-	ABOVE FINISHED FLOOR
AP	-	ACCESS PANEL
ARCH	-	ARCHITECTURAL
AS	-	AUTOMATIC FIRE SPRINKLER
AV	-	ACID VENT
AW	-	ACID WASTE
BFF	-	BELOW FINISHED FLOOR
BFG	-	BELOW FINISHED GRADE
BHP	-	BRAKE HORSEPOWER
BV	-	BALANCING VALVE
CD	-	CONDENSATE DRAIN
CFF	-	CAPPED FOR FUTURE CONNECTION
CFM	-	CUBIC FEET PER MINUTE
CHV	-	CHECK VALVE
COND	-	CONDENSATE
CONN	-	CONNECTION
CONT	-	CONTINUATION
CTE	-	CONNECT TO EXISTING
CU. FT.	-	CUBIC FEET
CU. IN.	-	CUBIC INCHES
CW	-	COLD WATER
DCW	-	DOMESTIC COLD WATER
DFU	-	DRAINAGE FIXTURE UNITS
DHW	-	DOMESTIC HOT WATER
DIA	-	DIAMETER
DW	-	DISHWASHER
EL	-	ELEVATION
FCO	-	FLOOR CLEANOUT
FD	-	FLOOR DRAIN
FHC	-	FIRE HOSE CABINET
FHV	-	FIRE HOSE VALVE
FIN. FLR.	-	FINISHED FLOOR
FS	-	FLOOR SINK
FT	-	FEET
GAL	-	GALLON
GCO	-	GRADE CLEANOUT
GPM	-	GALLONS PER MINUTE
GV	-	GATE VALVE
HB	-	HOSE BIBB
HD	-	HUB DRAIN
HP or hp	-	HORSEPOWER
HW	-	HOT WATER
HWR	-	HOT WATER RETURN
IN	-	INCH
kW	-	KILOWATT
LAV	-	LAVATORY
LB or lb	-	POUND
MAX	-	MAXIMUM
MBH	-	THOUSAND BRITISH THERMAL UNITS PER HOUR
MIN	-	MINIMUM
NC	-	NORMALLY CLOSED
NO	-	NORMALLY OPENED
NO.	-	NUMBER
OD or OFD	-	OVERFLOW DRAIN
OS&Y	-	OUTSIDE SCREW AND YOKE
OSD	-	OPEN SITE DRAIN
PD	-	PUMPED DISCHARGE
PG	-	PRESSURE GUAGE
POC	-	POINT OF CONNECTION
PRV	-	PRESSURE REDUCING VALVE
PSI	-	POUNDS PER SQUARE INCH
RD	-	ROOF DRAIN
RPBP	-	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	-	REVOLUTIONS PER MINUTE
SD	-	STORM DRAIN
SOV	-	SHUT-OFF VALVE
SQ. FT.	-	SQUARE FEET
TP	-	TRAP PRIMER
TS	-	TAMPER SWITCH
TW	-	TEPID WATER
TYP	-	TYPICAL
UR	-	URINAL
V	-	VENT
VTR	-	VENT THRU ROOF
W	-	WASTE
WC	-	WATER CLOSET
WCO	-	WALL CLEANOUT
WH	-	WATER HEATER
WHA	-	WATER HAMMER ARRESTER
WSFU	-	WATER SUPPLY FIXTURE UNITS

PLUMBING SYMBOLS

THIS IS A TYPICAL SCHEDULE. NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.

	PIPE ELBOW TURNED UP
	PIPE ELBOW TURNED DOWN
	TEE OFF BOTTOM
	TEE OFF TOP
	SOIL OR WASTE
V	SANITARY VENT
	DOMESTIC COLD WATER (CW)
	120° DOMESTIC HOT WATER (HW)
	120° DOMESTIC HOT WATER RETURN (HWR)
140°	140° DOMESTIC HOT WATER
	140° DOMESTIC HOT WATER RETURN
A	COMPRESSED AIR
AV	ACID VENT
AW	ACID WASTE
GW	GREASE WASTE
D	DRAIN
HPG	HIGH PRESSURE NATURAL GAS
G	LOW PRESSURE NATURAL GAS
ST	STORM DRAIN
LO	LUBE OIL
MO	MOTOR OIL
	DIRECTION OF FLOW IN PIPE
	PIPE SLOPES DOWN IN DIRECTION INDICATED
	POINT BETWEEN NEW AND EXISTING WORK
	POINT BETWEEN DEMO AND EXIST TO REMAIN
P NO.	WASTE AND VENT RISER NO.
DW NO.	DOMESTIC WATER RISER NO.
	GATE VALVE
	GLOBE VALVE
	STRAINER
	CHECK VALVE
	BALL VALVE
	PLUG COCK OR VALVE
	TEMPERATURE-PRESSURE RELIEF VALVE
HB	HOSE BIBB
FD FD	FLOOR DRAIN (PLAN & ELEVATION)
CO CO	CLEANOUT (PLAN & ELEVATION)
OSD OSD	OPEN SIGHT DRAIN (PLAN & ELEVATION)
DS	DOWN SPOUT
HB	HOSE BIBB
OSD	OPEN SIGHT DRAIN
RD	ROOF DRAIN
V	VENT
W	WASTE
VTR	VENT THRU ROOF
TP	TRAP PRIMER
	CIRCUIT SETTER
T	PLUMBING FIXTURE 120V TO 24V TRANSFORMER
	GAS PRESSURE REGULATING VALVE
	SOLENOID VALVE
	PRESSURE REGULATING VALVE

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Revisions

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WESTBANK PUBLIC SAFETY COMPLEX
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PLUMBING SYMBOLS, SCHEDULES, AND NOTES

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN — REG. NO. 38045 — REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

project number: 21238.00

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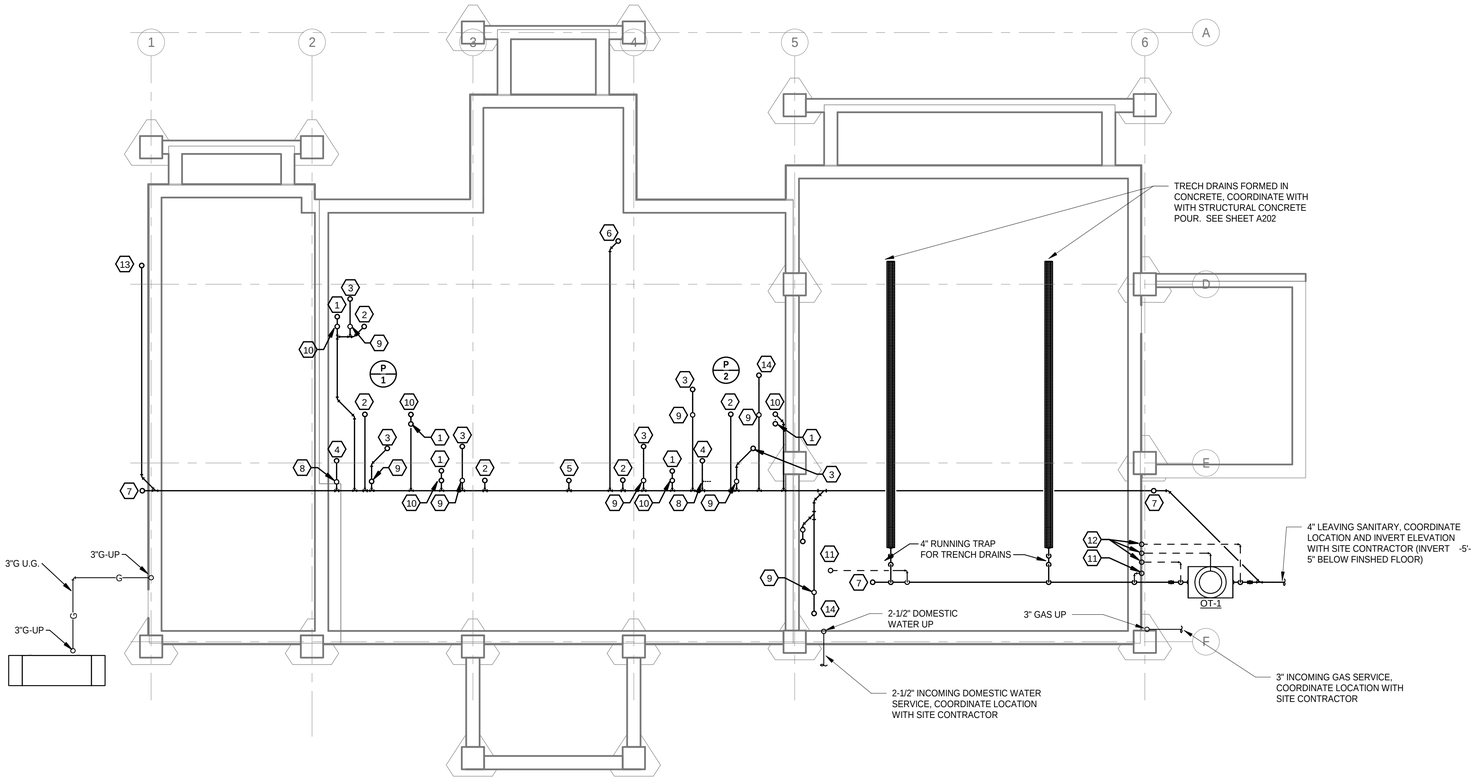

1 P201 UNDERGROUND PLUMBING PLAN

1/8" = 1'-0"

SHEET REFERENCE NOTES

1 4" SANITARY UP TO WATER CLOSET.

2 2" SANITARY UP TO LAVATORY.

3 3" SANITARY UP TO FLOOR DRAIN.

4 2" SANITARY UP TO SHOWER DRAIN.

5 2" SANITARY UP TO DRINKING FOUNTAIN DRAIN.

6 3" SANITARY UP TO KITCHEN SINK DRAIN.

7 4" SANITARY UP TO CLEANOUT.

8 2" VENT UP FROM SHOWER DRAIN.

9 2" VENT UP FROM FLOOR DRAIN.

10 4" SANITARY UP FROM WATER CLOSET, REDUCE TO 3" VENT ABOVE FLOOD RIM OF FIXTURE.

11 2" VENT UP FROM CIRUIT VENT FROM TRECH DRAINS.

12 2" VENT FROM OIL INTERCEPTER.

13 4" SANITARY UP TO DRAIN FOR TEMPORARY RV CONNECTION.

14 4" SANITARY UP TO FLOOR DRAIN.

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UNDERGROUND PLUMBING PLAN

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN, REG. NO. 38045, REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEER

project number: 21238.00

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drawing number: P201

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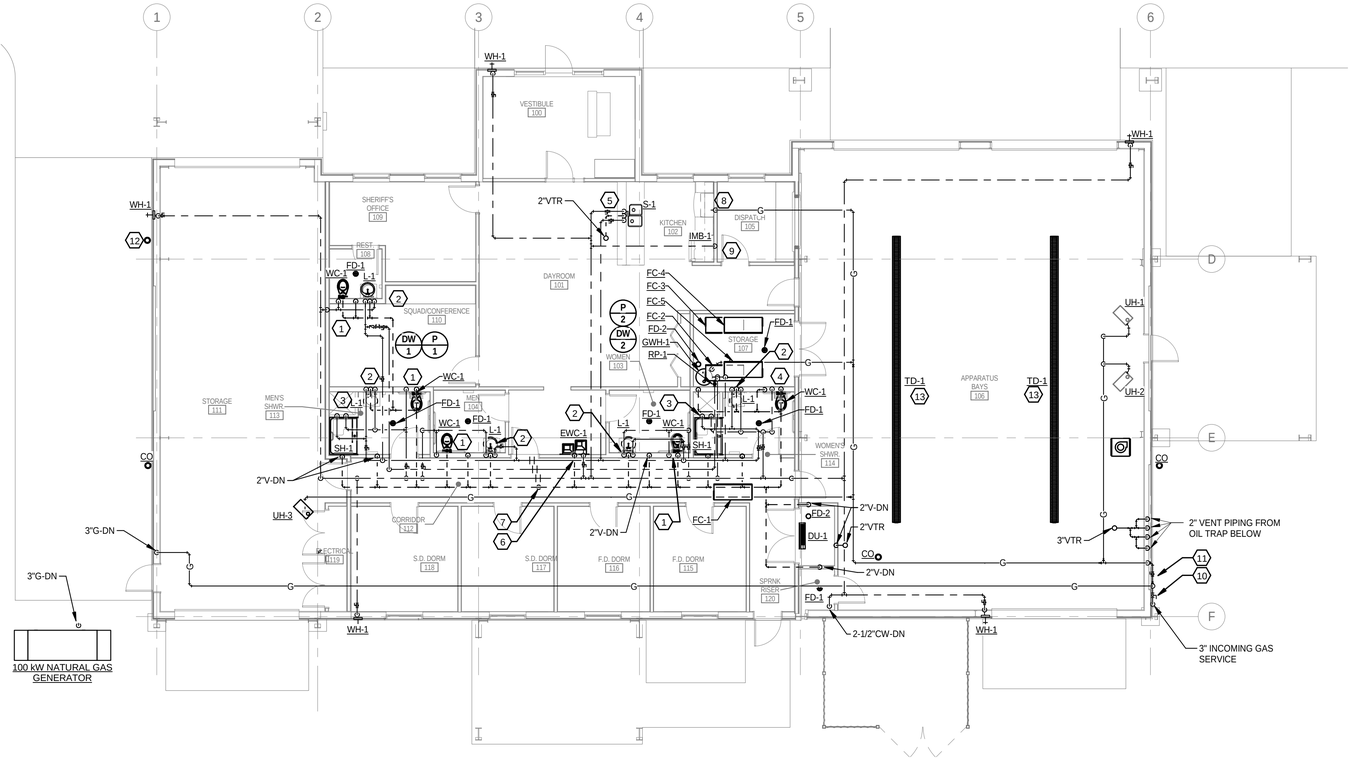

1 P202 PLUMBING PLAN

1/8" = 1'-0"

SHEET GENERAL NOTES

1. GAS PIPING ABOVE CEILING SHALL BE PLENUM RATED PER INTERNATIONAL BUILDING CODE 2016 EDITION.

2. PROVIDE TRAP GUARDS FOR ALL DRAINS EXCEPT FLOOR DRAIN SERVING RESTROOMS AND TOILET ROOM.

SHEET REFERENCE NOTES

1 3" VENT AND 1-1/2" CW DOWN TO WATER CLOSET.

2 2" VENT, 3/4" CW AND HW DOWN TO LAVATORY.

3 3/4" CW AND HW DOWN TO SHOWER VALVE.

4 3" VENT AND 1-1/2" CW DOWN TO WATER CLOSET. 2"VENT DOWN TO FLOOR DRAIN

5 2" VENT, 3/4" CW AND HW DOWN TO KITCHEN SINK.

6 2" VENT, 3/4" CW DOWN TO ELECTRIC WATER COOLER.

7 4"VENT UP TO 4" VTR

8 3/4" GAS DOWN TO STOVE. PROVIDE WITH SHUT-OFF, DRIP LEG & FLEXIBLE CONNECTION. FLEXIBLE CONNECTION SHALL BE FULL SIZE AS LINE SIZE

9 3/4"CW DOWN TO ICE MAKER BOX.

10 PROVIDE 3" SHUTT-OFF VALVE WITH METAL JPLACARD STATING "EMERGENCY GENERATOR GAS SUPPLY SHUT-OFF."

11 PROVIDE 1-1/2" SHUT-OFF VALVE WITH METAL PLACARD STATING "BUILDING SUPPLY SHUT-OFF."

12 CLEANOUT PLUG FOR "RV" SANITARY CONNECTION.

13 COORDINATE FINAL WIDTH AND LENGTH WITH STRUCTURAL OPENING.

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PLUMBING PLAN

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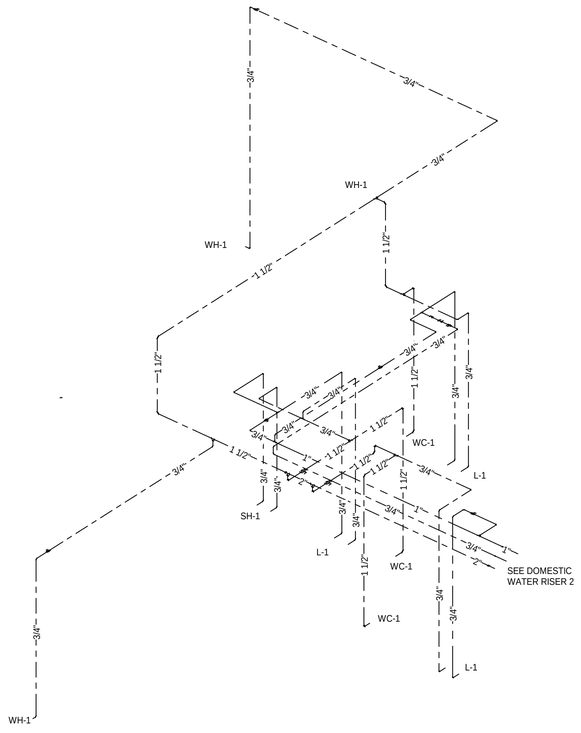
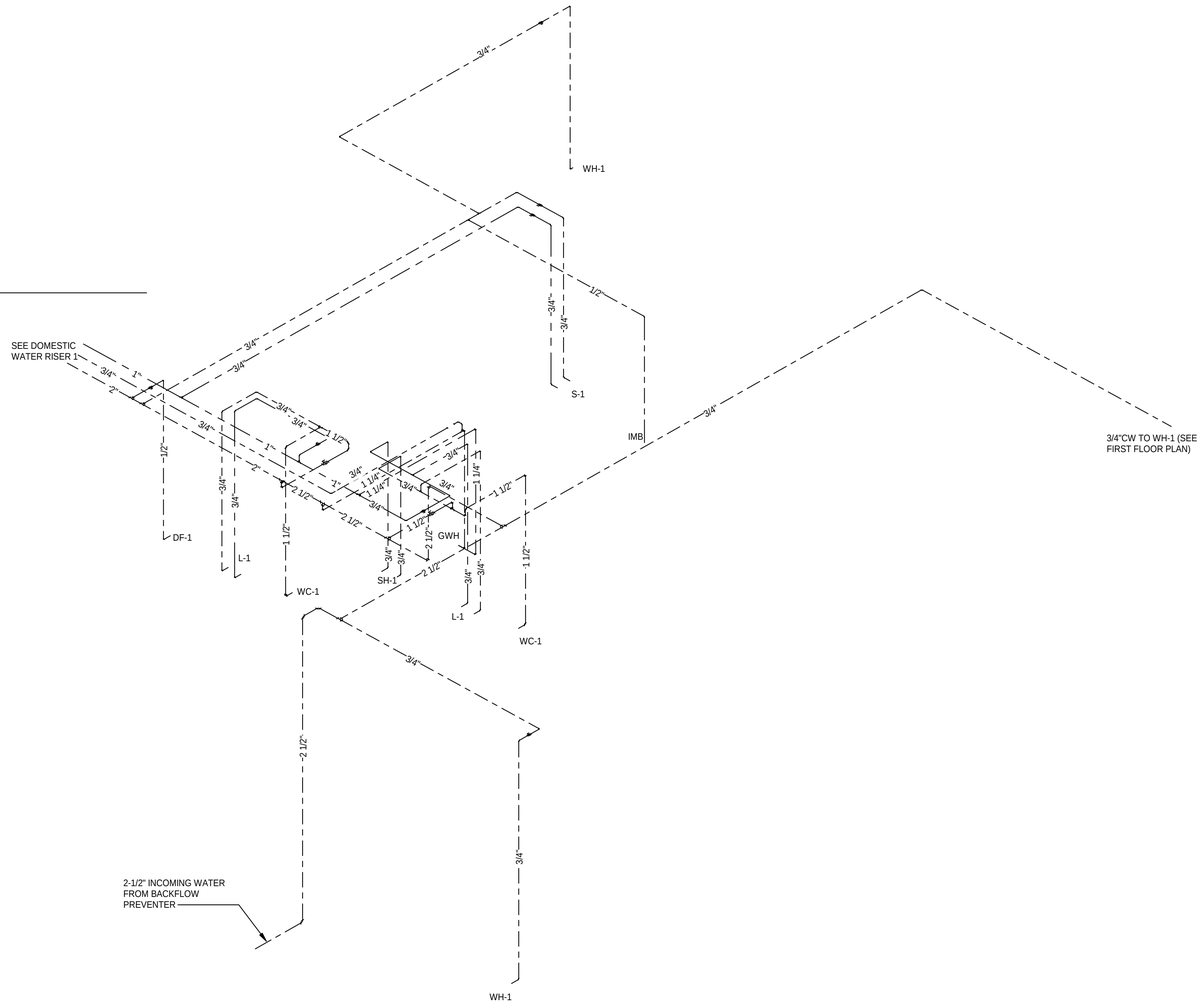
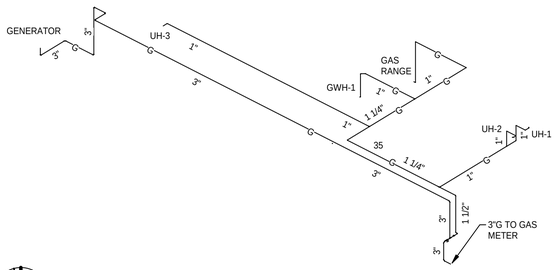


1 DOMESTIC WATER RISER 1
P401 N.T.S.



2 DOMESTIC WATER RISER 2
P401



3 NATURAL GAS RISER DIAGRAM
P401

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RISER DIAGRAMS - DOMESTIC WATER & NATURAL GAS DIAGRAM

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN — REG. NO. 38045 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEER

project number	drawing number
21238.00	P401
date: OCTOBER 15, 2018	
phase: BID DOCUMENTS	

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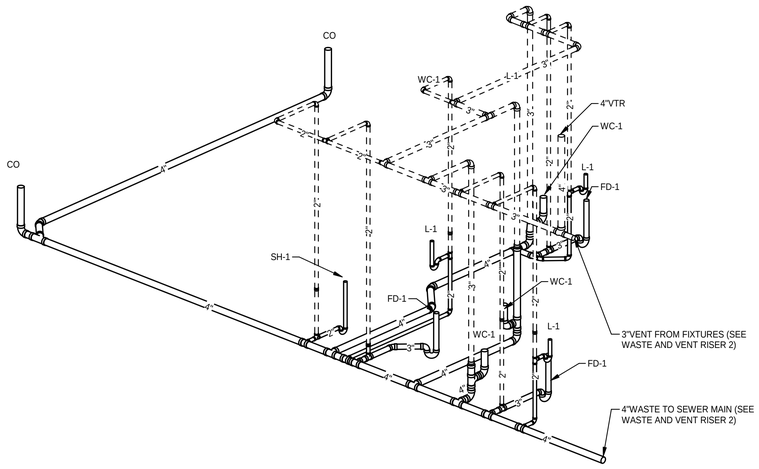
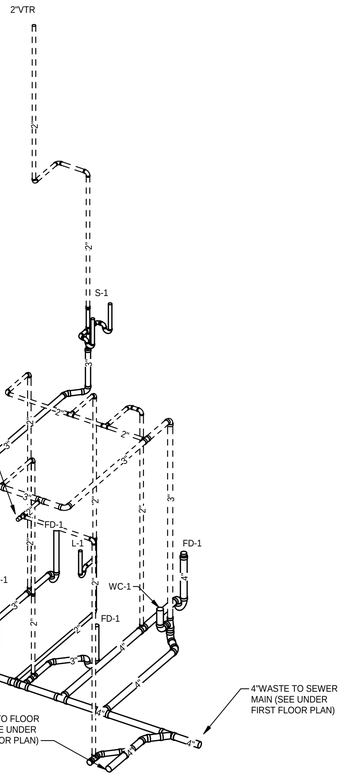


1 P402 WASTE & VENT RISER DIAGRAM 1



2 P402 WASTE & VENT RISER DIAGRAM 2

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RISER DIAGRAMS - WASTE AND VENT

seal
STATE OF LOUISIANA
CHRISTOPHER DAVID CHAUVIN
REG. NO. 38045
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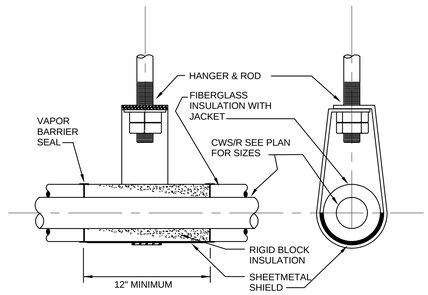
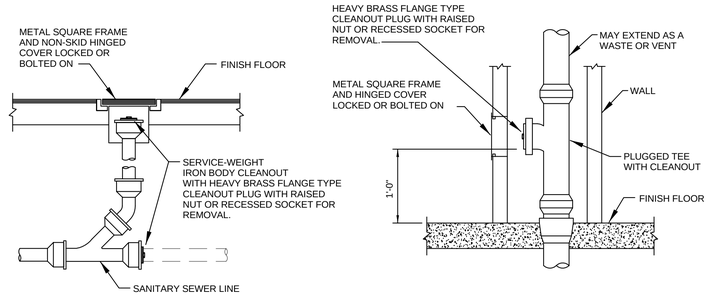


1 INSULATED PIPE HANGER
P500 N.T.S.



2 INTERIOR CLEANOUT
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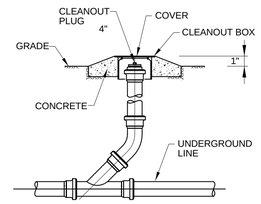

3 OUTDOOR CLEANOUT
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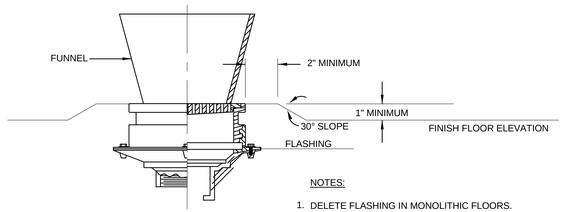

4 OPEN SITE DRAIN
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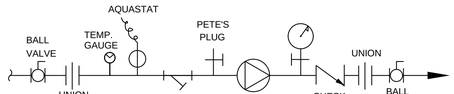
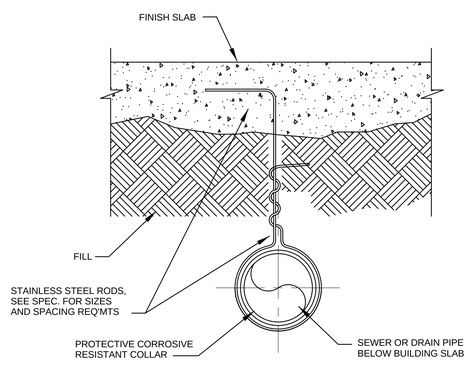
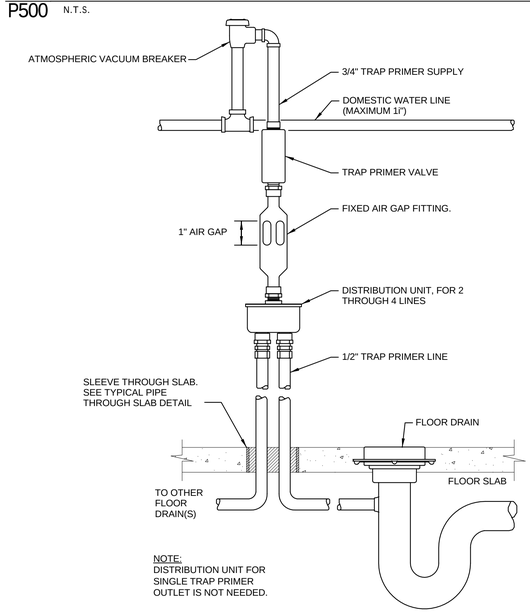


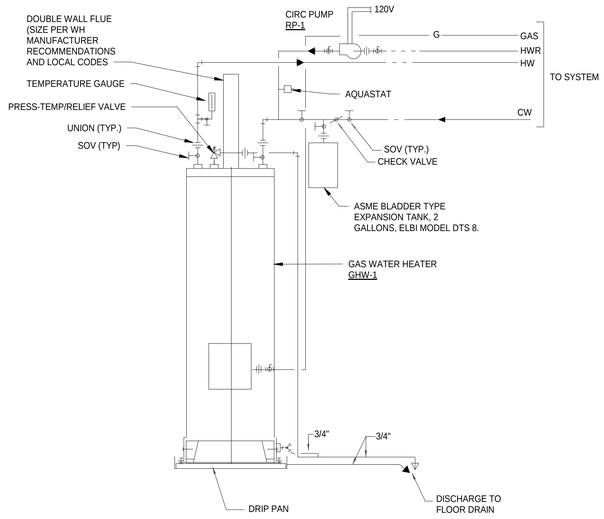
5 RECIRCULATING PUMP
P500 N.T.S.



6 UNDERGROUND PIPE HANGER
P500 N.T.S.



7 TYPICAL TRAP SEAL PRIMER
P500 N.T.S.



8 GAS WATER HEATER DETAIL
P500 N.T.S.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

DETAILS - PLUMBING

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN, REG. NO. 38045, REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEER

project number: 21238.00
date: OCTOBER 15, 2018
phase: BID DOCUMENTS
drawing number: P500

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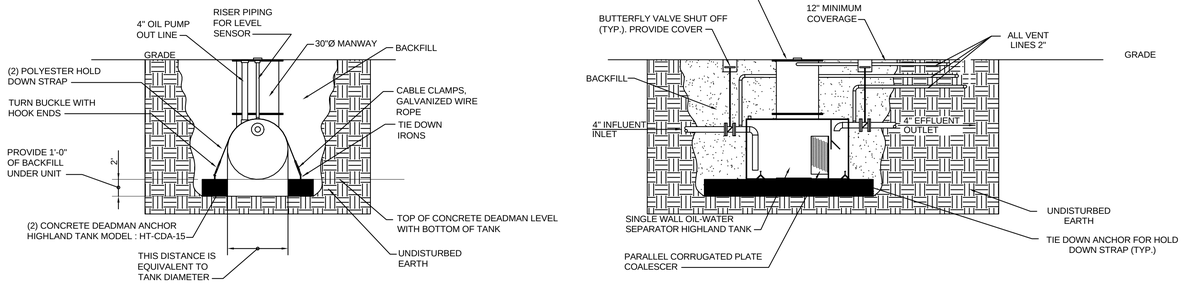

NOTE:

1. BEDDING AND BACKFLILL MUST BE HOMOGENEOUS MATERIAL (COMPACTED CLEAN SAND, PEA GRAVEL, NO. 8 CRUSHED STONE, OR EQUIVALENT).
2. COORDINATE INSTALLATION AND LOCATION OF OIL WATER SEPARATOR WITH CIVIL AND ARCHITECT. INSTALLATION TO COMPLY WITH MANUFACTURER'S GUIDELINES.
3. BEFORE ORDERING, APPROVAL BY THE PLUMBING INSPECTION SUPERVISOR FOR THE CITY OF KENNER WILL BE REQUIRED FOR EACH INSTALLATION. OIL/WATER SEPARATOR AND INSTALLATION TO COMPLY WITH CITY OF KENNER STANDARDS.

1 OIL WATER SEPARATOR DETAIL
P501 N.T.S.

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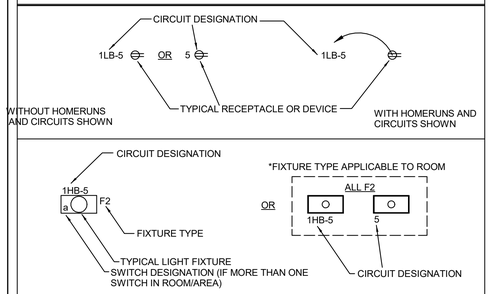
STANDARD ABBREVIATIONS

A	AMPERES	JB, J-BOX	JUNCTION BOX
AC	ABOVE COUNTER	KCM	THOUSAND CIRCULAR MILS
AFF	ABOVE FINISHED FLOOR	KV	KILOVOLT
AFG	ABOVE FINISHED GRADE	KVA	KILO VOLT-AMPERE
AHJ	AUTHORITY HAVING JURISDICITION	LCP	LIGHTING CONTROL PANEL
AHU	AIR HANDLING UNIT	MCB	MAIN CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH	MCC	MOTOR CONTROL CENTER
AWG	AMERICAN WIRE GAUGE	MDS	MAIN DISTRIBUTION SYSTEM
BAS	BUILDING AUTOMATION SYSTEM	MLO	MAIN LUGS ONLY
C	CONDUIT	MW	MICROWAVE
CATV	CABLE TELEVISION	N	NEUTRAL
cd	CANDELA RATING	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT TELEVISION	NL	NIGHT LIGHT
CKT	CIRCUIT	NO	NORMALLY OPEN
CU	COPPER	NTS	NOT TO SCALE
CLG	CEILING	Ø, PH	PHASE
dBA	DECIBEL LEVEL	P	POLE OR PHASE
DW	DISHWASHER	PB	PULLBOX
DWG	DRAWING	PNL	PANEL
EC	ELECTRICAL CONTRACTOR	RECEPT	RECEPTACLE
EF	EXHAUST FAN	REF	REFRIGERATOR
EM	EMERGENCY	TTB	TELECOMMUNICATIONS TERMINAL BOARD
EUH	ELECTRIC UNIT HEATER	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	UC	UNDER COUNTER
FA	FIRE ALARM	UH	UNIT HEATER
FAA	FIRE ALARM ANNUNCIATOR	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
FCU	FAN COIL UNIT	V	VOLTS
G	GROUND	VAV	VARIABLE AIR VOLUME BOX
GFI	GROUND FAULT INTERRUPTER	VFD	VARIABLE FREQUENCY DRIVE
HOA	HAND-OFF-AUTOMATIC	W	WATTS, WIRES
HP	HORSEPOWER	WH	WATER HEATER
IG	ISOLATED GROUND	WAP	WIRELESS ACCESS POINT
		WP	WEATHERPROOF

NOTE: SOME ABBREVIATIONS MAY NOT BE USED.

CIRCUIT AND TYPE DESIGNATIONS



ELECTRICAL SYMBOLS (CONTINUED)

NOTES:
1. THIS IS A TYPICAL SCHEDULE, SOME SYMBOLS MAY NOT BE USED.
2. ALL OUTLETS AND ELECTRICAL EQUIPMENT ARE SHOWN APPROXIMATELY LOCATED. FOR ALL MEASUREMENTS USE ARCHITECTURAL PLANS.
3. REGARDING ALL LIGHTING FIXTURES, REFER TO LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.

SYMBOL	DESCRIPTION
LIGHTING	
	SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO NORMAL BRANCH CIRCUIT
	SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE WITH BATTERY PACK CONNECTED TO NORMAL BRANCH CIRCUIT AHEAD OF SWITCHING OR CONNECTED TO LIFE SAFETY BRANCH CIRCUIT
	CEILING MOUNTED, WALL WASHER
CEILING / WALL	CEILING OR WALL MOUNTED EXIT SIGN, SHADED AREA INDICATES FACE, ARROWS INDICATE EXIT DIRECTION
	TRACK LIGHTING, LENGTH AS SHOWN ON DRAWINGS, QUANTITY OF HEADS AS SHOWN ON DRAWINGS
	EXTERIOR POLE MOUNTED LIGHTING FIXTURE
	EXTERIOR POLE MOUNTED LIGHTING FIXTURE (WITH DUAL HEADS)
	EXTERIOR LIGHTING FIXTURE, POST TOP MOUNTED OR BOLLARD
	EMERGENCY BATTERY PACK UNIT
	COMBINATION EXIT/ EMERGENCY BATTERY PACK UNIT
LIGHT FIXTURE MODIFIERS	
Fxx	DESIGNATOR BEGINNING WITH THE LETTER 'F' INDICATES FIXTURE TYPE - SEE SCHEDULE
a,b,c,d	LOWERCASE LETTER DESIGNATES FIXTURE CONTROL OR SWITCHING GROUP
EM	EMERGENCY FIXTURE
NL	NIGHT LIGHT FIXTURE - TO REMAIN ON ALWAYS
PE	PHOTOELECTRIC SWITCH
DS	DAYLIGHT DIMMING SENSOR
	MOTION DETECTING AUTOMATIC WALL SWITCH, SINGLE POLE
$_2$	MOTION DETECTING AUTOMATIC WALL SWITCH, DUAL RELAYS FOR SWITCHING TWO LOADS INDEPENDENTLY
	WALL MOUNTED MOTION SENSOR - LOW VOLTAGE W/ POWER PACK
	CEILING-CORNER MOUNTED MOTION SENSOR LOW VOLTAGE W/ POWER PACK
OS	CEILING MOUNTED MOTION SENSOR - LOW VOLTAGE W/ POWER PACK
$ S	SINGLE POLE SNAP SWITCH
LC	MULTI-POLE LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
SWITCH MODIFIERS	
2 DOUBLE POLE - CENTER OFF; 3 THREE WAY; 4 FOUR WAY; K KEY OPERATED; P PILOT LIGHT; MC MOMENTARY CONTACT	M MANUAL MOTOR STARTER; LV LOW VOLTAGE CONTROL SWITCH; AC ABOVE COUNTER; UC UNDER COUNTER; D DIMMER SWITCH; WP WEATHER PROOF
POWER	
	EXISTING UTILITY POLE
	NEW UTILITY POLE
	DISTRIBUTION PANELBOARD OR SWITCHBOARD
RECESSED / SURFACE	PANELBOARD
RECESSED / SURFACE	SPECIAL CABINET
	MULTI-OUTLET ASSEMBLY
	GROUND
M	MOTOR
J	COMBINATION MOTOR STARTER & DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
B	ENCLOSED CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH
J	DISCONNECT SWITCH
60/3/40F/N3R	DISCONNECT SWITCH: RATING / POLES / FUSE RATING / NEMA TYPE (NF = NON-FUSED)

ELECTRICAL SYMBOLS (CONTINUED)

SYMBOL	DESCRIPTION
POWER (CONT'D.)	
J	JUNCTION BOX WITH COVER, MOUNTED ABOVE CEILING OR FLUSH IN FINISHED CEILING UNLESS INDICATED OTHERWISE. SIZE PER NEC
J	WALL MOUNTED JUNCTION BOX WITH COVER, MOUNTED FLUSH IN FINISHED SPACES OR SURFACE IN UNFINISHED SPACES, UNLESS INDICATED OTHERWISE. SIZE PER NEC
	FLOOR SURFACE/PEDESTAL MOUNTED JUNCTION BOX. SEE DETAIL.
	SIMPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE
	SIMPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE CEILING MOUNTED
	SIMPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE, FLOOR MOUNTED
	DUPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE
	DUPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE, CEILING MOUNTED
	DUPLEX RECEPTACLE 20 AMP, 120V, GROUNDING TYPE, FLOOR MOUNTED
	QUADRAPLEX RECEPTACLE 20A, 120V, GROUNDING TYPE
	QUADRAPLEX RECEPTACLE, 20A, 120V, GROUNDING TYPE, CEILING MOUNTED
	QUADRAPLEX RECEPTACLE, 20A, 120V, GROUNDING TYPE, FLOOR MOUNTED
	RECEPTACLE & COMMUNICATIONS COMBINATION FLOOR BOX - TYPICAL
	RECEPTACLE, 250V, GROUNDING TYPE (SUBSCRIPT INDICATES AMPERAGE)
	RECEPTACLE, 120V, GROUNDING TYPE (SUBSCRIPT INDICATES AMPERAGE)
	DUPLEX RECEPTACLE, 20 AMP, 120V GFI TYPE (GROUND FAULT INTERRUPTER)
RECEPTACLE AND JUNCTION BOX MODIFIERS	
AC ABOVE COUNTER; UC UNDER COUNTER; IG ISOLATED GROUNDING TYPE; EWC ELECTRIC WATER COOLER; WP WEATHER PROOF - WET-WHILE-IN-USE; ##A DESIGNATES AMPERE RATING REQUIRED; TR TAMPER RESISTANT; HD ELECTRIC HAND DRYER; AV AV SYSTEM JUNCTION BOX	TV MOUNTED AT TELEVISION ELEVATION; U RECEPTACLE WITH INTEGRAL USB CHARGING PORT; MW MICROWAVE RECEPTACLE; SD SINK DISPOSAL; DW DISHWASHER; REF REFRIGERATOR; FSD FIRE SMOKE DAMPER; OH OVERHEAD DOOR
	DATA OUTLET - WALL MOUNTED
	VOICE/DATA OUTLET - WALL MOUNTED
	VOICE (TELEPHONE) OUTLET
	CEILING MOUNTED COMMUNICATIONS OUTLET
	FLOOR MOUNTED COMMUNICATIONS OUTLET
WAP	WIRELESS ACCESS POINT, PROVIDE TWO RJ45 CONNECTIONS
	POWER/ DATA POLE
	CABLE T.V. OUTLET
	TELECOMMUNICATIONS BACKBOARD
NR	NETWORK RACK
TELECOMMUNICATIONS OUTLET MODIFIERS	
# PROVIDE QUANTITY OF RJ45 CONNECTIONS INDICATED BY #. DEFAULT OF (1) RJ-45 CONNECTION.	UC UNDER COUNTER; AV AV DATA OUTLET, DEFAULT OF (2) RJ-45 CONNECTIONS.
AC ABOVE COUNTER	
FIRE ALARM	
FACP	FIRE ALARM CONTROL PANEL
ANN	FIRE ALARM ANNUNCIATOR PANEL
F	MANUAL PULL STATION
	SMOKE DETECTOR
	WALL MOUNTED SMOKE DETECTOR
T	THERMAL / HEAT DETECTOR
T	WALL MOUNTED THERMAL / HEAT DETECTOR
D	DUCT MOUNTED SMOKE DETECTOR
CM	CARBON MONOXIDE DETECTOR
S	SMOKE DETECTOR WITH SOUNDER BASE - RESIDENTIAL USE
C/S	SMOKE & CARBON MONOXIDE DETECTOR
C/S S	SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER BASE

ELECTRICAL SYMBOLS (CONTINUED)

SYMBOL	DESCRIPTION
FIRE ALARM (CONT'D.)	
F WALL / F CEILING	AUDIBLE/VISUAL NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING), CANDELA OF STROBE, AS NOTED IN cd.
F cd WALL / F cd CEILING	VISUAL NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING), CANDELA OF STROBE, AS NOTED IN cd.
WALL / CEILING	AUDIO NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING).
R	REMOTE INDICATOR
M	MONITOR MODULE
PIV	POST INDICATOR VALVE
	MAGNETIC DOOR HOLDER
FL	SPRINKLER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
C	CONTROL MODULE
ARMS / ARRS	AREA OF REFUGE MASTER / REMOTE STATION
2WM / 2WR	EMERGENCY 2-WAY COMMUNICATION MASTER / REMOTE STATION
GRA	GENERATOR REMOTE ANNUNCIATOR CONTROL PANEL
MISCELLANEOUS	
	CCTV CAMERA - CEILING MOUNT
	CCTV CAMERA - WALL MOUNT
WP	CCTV CAMERA - WALL MOUNT EXTERIOR
	INTRUSION SYSTEM MOTION DETECTOR, CEILING MUONTED
	INTRUSION MOTION DETECTOR/PIR - CEILING CORNER/WALL MOUNT
K	INTRUSION SYSTEM CONTROL KEYPAD
	INTRUSION SYSTEM. GLASS BREAK DETECTOR
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL
R	DOOR ACCESS SYSTEM CARD READER
DC	DOOR CONTACT
EL	ELECTRIFIED DOOR STRIKE
MS	DOOR ACCESS SYSTEM MOTION SENSOR
	DOOR ACCESS SYSTEM PUSH BUTTON
DAP	DOOR ACCESS SYSTEM CONTROL PANEL
	ADA AUTOMATIC DOOR OPENER PUSH BUTTON
DCC	MOTORIZED OVERHEAD DOOR CONTROLLER CONSOLE
D	MOTORIZED DOOR CONTROL SYSTEM NOTIFICATION STROBE
E	EMERGENCY ALARM INITIATING DEVICE
IC	MAIN INTERCOM EQUIPMENT RACK
$ IC	CALL-IN SWITCH, PUSHBUTTON
IC	INTERCOM TELEPHONE OUTLET
S	SOUND REINFORCEMENT SYSTEM CEILING RECESSED SPEAKER
S	SOUND REINFORCEMENT SYSTEM WALL LOUDSPEAKER
P	INTERCOM/PAGING SYSTEM SPEAKER CEILING RECESSED SPEAKER
P	INTERCOM/PAGING SPEAKER SYSTEM WALL LOUDSPEAKER
V	INTERCOM SPEAKER VOLUME CONTROL
MIC	MICROPHONE JACK
CIRCUITRY	
	HOMERUN TO PANELBOARD, QUANTITY OF ARROWS INDICATES NUMBER OF CIRCUITS.
	CONDUIT CONCEALED OVERHEAD IN FURRED CEILING, IN CEILING SLAB OR IN WALLS
	CONDUIT EXPOSED
	CONDUIT BELOW GRADE OR CONCEALED IN SLAB
OH	OVERHEAD WIRING IN CONDUIT - SITE WORK
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT STUB OUT
1,3 or 1,3,5	GROUPED HOMERUN WITH SHARED NEUTRAL
2/4, 2/4/6	MULTIPOLE HOMERUN, CONDUCTORS AS REQUIRED BY EQUIPMENT
	TICKS MARK: NUMBERS OF HOT WIRE AND ONE NEUTRAL

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ELECTRICAL SYMBOLS

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172, PROFESSIONAL ENGINEER

project number	21238.00
date	OCTOBER 15, 2018
phase	BID DOCUMENTS
drawing number	E001

ELECTRICAL GENERAL NOTES

1. WORK PERFORMED SHALL AT A MINIMUM BE IN ACCORDANCE WITH THE LATEST APPLICABLE EDITION ADOPTED BY THE AUTHORITY HAVING JURISDICTION OF THE STANDARDS LISTED BELOW. WHERE THESE SPECIFICATIONS, PLANS, AND NOTES ARE MORE STRINGENT THAN ADOPTED CODE, THEY SHALL TAKE PRECEDENCE. IN CASE OF CONFLICT, OBTAIN A DECISION FROM THE ARCHITECT AND ENGINEER.
   a. THE NATIONAL ELECTRICAL CODE - NFPA 70 (NEC)
   b. ENTERGY (OR RESPECTIVE UTILITY PROVIDER) -CUSTOMER INSTALLATION STANDARDS FOR ELECTRIC SERVICE.
   c. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION NFPA-101, LIFE SAFETY CODE
   d. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION NFPA-72, FIRE ALARM CODE
   e. NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS
   f. NFPA 90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS
   g. NFPA 92A STANDARD FOR SMOKE CONTROL SYSTEMS
   h. ASHRAE STANDARD 90.1
   i. ANSI HANDICAPPED CODE-A117.1
   j. APPLICABLE STATE AND LOCAL CODES/ORDINANCES
   k. IES - ILLUMINATING ENGINEERING SOCIETY
   l. APPLICABLE HEALTH CODES
   m. OSHA 1926 SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION
   n. NECA 1 - STANDARD PRACTICE OF GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION
   o. INTERNATIONAL BUILDING CODE - 2012 EDITION (IBC)
2. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL.
3. ELECTRICAL EQUIPMENT AND COMPONENTS SHALL BE LOCATED AT OR ABOVE BASE FLOOD ELEVATION OR GRADE ELEVATION, WHICHEVER IS HIGHER AS DETERMINED BY IBC 1612.
4. PANELS, SWITCHBOARDS, ETC. ARE TO BE FULLY RATED. - NO SERIES RATED EQUIPMENT IS ALLOWED.
5. COMPLETELY BOND AND GROUND ENTIRE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE CURRENT NEC ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION ARTICLE 250 IN IT'S ENTIRETY.
6. CONTRACTOR TO COORDINATE ALL UTILITY SERVICE REQUIREMENTS WITH LOCAL UTILITY SERVICE PROVIDER FOR ALL UTILITIES REQUIRED BY OWNER/CLIENT (ELECTRICAL, PHONE, CABLE, DATA. ETC.) AND PROVIDE A FULL INSTALL INCLUDING CONDUIT IN ACCORDANCE WITH RESPECTIVE UTILITY'S REQUIREMENTS.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GENERAL CONTRACTOR ON THE APPLICATION FOR PERMIT AND REMITTANCE OF ALL FEES. IN ADDITION, CONTRACTOR TO PROVIDE FINAL INSPECTION CERTIFICATE.
8. INCLUDE THE COSTS TO INCORPORATE ALL CODES AND ORDINANCE REQUIREMENTS INTO THE BASE BID AND INSTALLATION OF WORK FOR THIS PROJECT. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK TO CONFORM TO REGULATIONS AND REQUIREMENTS AND/OR TO OBTAIN APPROVAL OF WORK.
9. WORKMANSHIP TO MEET NECA - 1 GUIDELINES. PUT INTO OPERATION AND TEST ALL ELECTRICAL EQUIPMENT. ALL CIRCUITS SHALL BE TESTED BY CONTRACTOR FOR PROPER VOLTAGE AND PHASE ROTATION; CONTINUITY; PROPER POLARITY; PROPERLY FUNCTIONING GROUND FAULT INTERRUPTERS AND OTHER OUTLETS AND EQUIPMENT; AND FOR ELECTRICAL ISOLATION OF ALL UNGROUNDED CONDUCTORS FROM GROUND AND FROM THE CONDUIT SYSTEM. CONTRACTOR SHALL BALANCE THE LOADS ON EACH PANEL TO WITHIN 15% BETWEEN MAXIMUM AND MINIMUM CURRENTS.
10. PROVIDE GROUND FAULT CIRCUIT INTERRUPTERS TYPE RECEPTACLES FOR ALL 15 AND 20 AMPERE, 120 VOLT, CONVENIENCE RECEPTACLES IN BATHROOMS, KITCHEN AREAS, ROOF TOPS, EXTERIOR AND WITHIN 6 FOOT OF ALL SINKS.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY TESTING EQUIPMENT (INCLUDING 24VDC SYSTEM) AND PERSONNEL FOR MAKING TEST. ALL TEST SHALL BE MADE IN THE PRESENCE OF THE OWNER OR A REPRESENTATIVE THEREOF. WHEN TEST RESULTS ARE NOT SATISFACTORY, THE CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS AND/OR CHANGES AND SHALL NOTIFY OWNER THAT HE IS READY FOR ANOTHER TEST. CONTRACTOR SHALL REPEAT TEST OR TESTS WHICH DISCLOSED FAULTY OR DEFECTIVE WORK OR EQUIPMENT AND SHALL MAKE SUCH ADDITIONAL TESTS AS OWNER DEEMS NECESSARY.
12. PROVIDE COMPLETE INSTALLATION, INCLUDING ALL MINOR ITEMS. THIS INCLUDES ELECTRICAL AS WELL AS ANY OTHER SYSTEMS SHOWN IN THESE DRAWINGS. PROVIDE ALL MOUNTING HARDWARE FOR LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT REQUIRED FOR A COMPLETE INSTALL.
13. DRAWINGS ARE DIAGRAMMATICAL. ALL ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. FOR ALL MEASUREMENTS, USE ARCHITECTURAL, MECHANICAL OR OTHER RESPECTIVE DIVISION'S PLANS AND FIELD SURVEYS. COORDINATE WITH AIR CONDITIONING WORK, CABINET WORK, PARTITION WORK, ETC., WHEN REQUIRED. LAYOUT OF EQUIPMENT, ACCESSORIES, SPECIALTIES, WIRING AND CONDUIT SYSTEMS ARE STRICTLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED, AND DO NOT INDICATE EVERY REQUIRED FITTING, ELBOW, TRANSITION, JUNCTION BOX OR SIMILAR ITEMS THAT ARE REQUIRED FOR A COMPLETE INSTALLATION.
14. PROVIDE ALL REQUIRED MOTOR STARTERS, OVERCURRENT AND DISCONNECTION MEANS FOR EQUIPMENT SPECIFIED BY OTHER DISCIPLINES, WHETHER SPECIFICALLY INDICATED ON THESE DRAWINGS OR NOT. DEVICE WILL HAVE APPROPRIATE SIZE, NUMBER OF POLES AND NEMA RATING FOR INTENDED APPLICATION.
15. IF A CONFLICT OCCURS BETWEEN DRAWINGS AND/OR SPECIFICATIONS, BID THE GREATER QUANTITY AND/OR QUALITY.
16. COORDINATE ELECTRICAL WORK WITH OTHER TRADES PRIOR TO SUBMITTING A BID.
17. INSTALL EQUIPMENT SO THAT CLEAR WORKING SPACE REQUIREMENTS OF THE NEC ARE MET. REFER TO NEC 110.26.
18. RACEWAYS AND CABLES SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.
19. ALL WORK SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE IN AN APPROVED MANNER AND FASTENED TO BUILDING CONSTRUCTION WITH APPROVED SUPPORTS.
20. ALL ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE OF THE SAME MANUFACTURER, INCLUDING: PANELBOARDS, TRANSFORMERS, DISTRIBUTION PANELS, SWITCHBOARDS, DISCONNECTS, MOTOR STARTERS, ETC.
21. ALL FLOOR MOUNTED ELECTRICAL DISTRIBUTION EQUIPMENT SHALL HAVE A 4" HIGH HOUSEKEEPING PAD EXTENDING 4" OUTSIDE THE EQUIPMENT FOOTPRINT IN ALL DIRECTIONS.
22. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF THE DRAWINGS USED STRICTLY FOR MARK-UPS WHICH SHALL INCLUDE ALL REVISIONS, SKETCHES, ETC., REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL INSURE THAT ALL CIRCUITRY IS SHOWN AS WIRED IN THE FIELD AND HAS ACCURATE HOMERUN DESIGNATIONS. THE CONTRACTOR SHALL MARK THESE DRAWINGS RED FOR ADDITIONS AND GREEN FOR DELETIONS TO INDICATE EXACT, AS INSTALLED CONDITIONS.

ELECTRICAL GENERAL NOTES (CONT'D)

23. UPON DOCUMENTED APPROVAL OF THE ARCHITECT, MOUNTING HEIGHTS MAY BE ADJUSTED. LENGTH OF RECEPTACLES SHALL RUN VERTICALLY. DO NOT MOUNT OUTLETS BACK TO BACK ON OPPOSITE SIDES OF PARTITIONS.
24. SIZING OF MOTOR-RELATED ELECTRICAL COMPONENTS, INCLUDING FEEDERS, BRANCH CIRCUITS AND OVERCURRENT PROTECTION ARE BASED ON RATINGS INDICATED. VERIFY "ACTUALLY INSTALLED" MOTOR AND APPLIANCE RATINGS AND LOADS AND PROVIDE CORRECTLY SIZED MOTOR-RELATED ELECTRICAL COMPONENTS. REFLECT ALL CHANGES IN THE RECORD DRAWINGS. COORDINATE WITH ELECTRICAL ENGINEER IF NECESSARY.
25. PROVIDE HACR TYPE CIRCUIT BREAKERS FOR HVAC EQUIPMENT. VERIFY SIZE WITH MECHANICAL EQUIPMENT SUPPLIER AND/OR MANUFACTURER.
26. PROVIDE INTEGRAL CONTROL TRANSFORMERS WITH OVERCURRENT PROTECTION AS REQUIRED FOR MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
27. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO ARCHITECT PRIOR TO CONSTRUCTION FOR PANELBOARDS, CIRCUIT BREAKERS, LIGHT FIXTURES, TRANSFORMERS, DISCONNECT SWITCHES, CONTROL DEVICES, WIRING DEVICES AND SPEAKER/BACK BOXES CORD SETS FOR ELECTRICAL EQUIPMENT (DRYER, KITCHEN EQUIPMENT). OPERATION AND MAINTENANCE MANUALS SHALL BE SUBMITTED FOR PANELBOARDS, TRANSFORMERS, LIGHT FIXTURES WITH EMERGENCY BATTERY PACKS AND ANY OTHER EQUIPMENT UNDER THIS CONTRACT REQUIRING REGULAR OPERATION OR MAINTENANCE.
28. A WARRANTY PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF FINAL COMPLETION OF THE PROJECT SHALL APPLY TO ALL ELECTRICAL EQUIPMENT FURNISHED AND TO ANY ELECTRICAL WORK FURNISHED UNDER THESE SPECIFICATIONS. CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECTS IN WORKMANSHIP, DESIGN OR MATERIALS AT HIS OWN EXPENSE. WARRANTY WORK SHALL BE PERFORMED WITHIN A REASONABLE TIMEFRAME AS SOON AS POSSIBLE AFTER THE DISCREPANCY IS NOTICED.
29. CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF STORED MATERIALS AND INSTALLED WORK. ALL FIXTURES AND EQUIPMENT SHALL BE TIGHTLY COVERED WITH SHEET POLYETHYLENE OR WATERPROOF TARPAULIN AND PROTECTED AGAINST DIRT, RUST, MOISTURE, CHEMICAL AND MECHANICAL INJURY REGARDLESS OF LOCATION. MATERIALS SHALL NOT BE STORED DIRECTLY ON EARTH ON IN AREAS WHERE THEY WILL BE SUBJECT TO PHYSICAL INJURY FROM VEHICLE TRAFFIC OR CONSTRUCTION EQUIPMENT. CONDUIT OPENINGS SHALL BE CAPPED OR PLUGGED DURING INSTALLATION. KEEP STOCK OF MATERIAL AND EQUIPMENT STORED ON THE PREMISES IN A NEAT AND ORDERLY MANNER.
30. PROVIDE TYPEWRITTEN PANELBOARD SCHEDULES TO PANELBOARD DOORS DEPICTING THE FINAL AS-BUILT CONDITIONS AT PROJECT COMPLETION. INDICATE DEVICE AND ROOM NAME LOCATION.
31. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL REMOVE ALL DEBRIS, SURPLUS MATERIALS OR FOREIGN MATTER CAUSED BY THE PERFORMANCE OF ELECTRICAL WORK ON THE PREMISES. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE PREMISES IN A CLEAN CONDITION.
32. NO INSTALLATION WILL BE CONSIDERED COMPLETE UNTIL THE PROPER OPERATION OF ALL ELECTRICAL EQUIPMENT HAS BEEN DEMONSTRATED TO THE SATISFACTORY OF THE OWNER OR ITS AUTHORIZED REPRESENTATIVE. ALSO, ANY RECORD DRAWINGS, BOOKS NECESSARY TO MAINTAIN OR REPLACE ANY CONTRACTOR SUPPLIED MATERIAL SHALL BE COMPILED AND PRESENTED TO THE OWNER IN A FORM SUITABLE FOR REPRODUCTION.
33. THESE DRAWINGS HAVE BEEN COORDINATED WITH MECHANICAL AND PLUMBING DRAWINGS. ELECTRICAL CONTRACTOR TO COORDINATE FUSE, CIRCUIT BREAKER, WIRE, CONDUIT, DISCONNECT, ETC. SIZES WITH MANUFACTURERS' RECOMMENDATIONS OF EQUIPMENT AND UNITS ACTUALLY INSTALLED AND MODIFY AS NECESSARY TO ACCOMMODATE.
34. ALL TERMINATIONS SHALL BE LISTED FOR 75 DEGREES C UNLESS OTHERWISE NOTED.
35. ALL CABLE SHALL BE COPPER UNLESS OTHERWISE NOTED.
36. CONTRACTOR TO COORDINATE ALL UTILITY SERVICE REQUIREMENTS WITH LOCAL UTILITY SERVICE PROVIDER. (ELECTRICAL, PHONE, CATV, ECT.)
37. PRIOR TO ROUGHING-IN ANY WIRING OR DEVICES, CONFIRM EXACT LOCATIONS WITH ARCHITECT/OWNER.
38. ALL BRANCH CIRCUITRY INSTALLATION AND LOADING SHALL COMPLY WITH CURRENT NEC.
39. ARCHITECT BASE DRAWINGS HAVE PREFERENCE. ALL DISCREPANCIES WITH BASE DRAWINGS IN ELECTRICAL SET TO BE CLARIFIED WITH CONTRACTOR, ARCHITECT AND ELECTRICAL ENGINEER.

GENERAL NOTES - LIGHTING

1. ALL EXIT SIGNS SHALL BE ON UNSWITCHED "HOT" LEG SERVING THE AREA, CONNECTED AHEAD OF SWITCH SERVING AREA/ROOM.
2. ALL EXIT SIGNS SHALL BE WALL MOUNTED, WHERE POSSIBLE (UNLESS INDICATED OTHERWISE). WHERE WALL MOUNTING AFFECTS FIRE RATING OF THE AREA (SUCH AS STAIR ENCLOSURES), EXIT SIGN SHALL BE CEILING MOUNTED.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING TYPES. VERIFY CEILING TYPES WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES TO ENSURE COMPATIBLE FIXTURE TRIMS AND MOUNTING HARDWARE.
4. ALL ADJUSTABLE FIXTURES SHALL BE LOCATED AND PROPERLY AIMED AS DIRECTED BY THE ARCHITECT OR LIGHTING DESIGNER. ALL AIMING OF BUILDING FACADE LIGHTING SHALL BE PERFORMED BY CONTRACTOR AT NIGHT. ADJUSTABLE SUSPENDED FIXTURES HUNG WITH CHAIN OR CABLE SHALL HAVE SLACK IN THE SUPPORT AVAILABLE TO MOVE THE FIXTURE AS DIRECTED BY ARCHITECT OR LIGHTING DESIGNER.
5. RECESSED FIXTURES IN FIRE RATED CEILINGS AND RETURN AIR PLENUMS SHALL BE RATED FOR THE FIRE RATING OF THE CEILING OR SHALL BE FULLY ENCLOSED IN A FIRE RATED HOUSING ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
6. ALL OCCUPANCY SENSOR LOCATIONS ARE APPROXIMATE REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PRIOR TO INSTALLATION.
7. OCCUPANCY SENSOR COVERAGE AREAS AND PATTERNS VARY BY MANUFACTURER. CONTRACTOR SHALL VERIFY SENSOR LAYOUT WITH CHOSEN MANUFACTURER'S COVERAGE PATTERNS PRIOR TO INSTALLATION.
8. ADJUST OCCUPANCY SENSOR LOCATIONS TO ALLOW FOR PROPER OPERATION WHERE THERE ARE OBSTRUCTIONS THAT AFFECT OPERATION OF SENSORS. CONTRACTOR SHALL VERIFY THE REQUIRED NUMBER OF POWER PACKS; ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
9. ALL MOTIONS SENSORS ARE TO BE OF THE DUAL-TECHNOLOGY TYPE UNLESS NOTED OTHERWISE WITH ADJUSTABLE TIME DELAY SETTINGS AND ADAPTIVE TECHNOLOGY.
10. PROVIDE OCCUPANCY SENSORS AS FOLLOWS (OR APPROVED EQUAL):
    a. CEILING-CORNER TYPE - WATTSTOPPER DT-200
    b. CEILING (360-DEGREE) TYPE - WATTSTOPPER DT-300
    c. CEILING OCCUPANCY IN CORRIDORS - WATTSTOPPER WT-2250
    d. AUTOMATIC WALL SWITCHES - WATTSTOPPER WS-200

WIRING METHODS GENERAL NOTES

1. UNLESS OTHERWISE INDICATED, WIRING FOR ALL SYSTEMS CALLED FOR IN THESE SPECIFICATIONS AND SHOWN ON DRAWINGS SHALL CONSIST OF SINGLE INSULATED INDIVIDUAL COPPER CONDUCTORS IN METALLIC RIGID RACEWAY.
2. ALL WIRES SHALL BE COLOR CODED TO COMPLY WITH NEC AND PANELS SHALL BE LABELED TO PROVIDE IDENTIFICATION AS TO CONDUCTOR COLOR CODING.
3. PROVIDE SEPARATE GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CIRCUITS.
4. ALL CONDUCTORS SHALL BE COPPER THWN OR THHN UNLESS OTHERWISE NOTED. #6 AWG AND SMALLER SHALL BE SOLID AND #8 AWG SHALL BE STRANDED. COLOR-CODE CONDUCTORS PER NEC.
5. CIRCUITS WITH UNMARKED CONDUCTOR AMOUNTS AND SIZES SHALL DEFAULT TO 2#12, #12G, 1/2"C.
6. ALL POWER TERMINATIONS SHALL BE LISTED FOR 75 DEGREES C UNLESS OTHERWISE NOTED.
7. RIGID STEEL CONDUIT (GRC) SHALL BE HOT DIPPED GALVANIZED, THREADED, WITH THREADED FITTINGS, INSULATED THROAT CONNECTORS AND BUSHINGS.
8. ELECTRICAL METALLIC TUBING (EMT) SHALL BE GALVANIZED STEEL "THINWALL" TERMINATED WITH INSULATED THROAT BUSHINGS. TUBING FITTINGS SHALL BE STEEL-RING COMPRESSION TYPE FITTINGS FOR SIZES UP TO 2" IN DIAMETER AND SET SCREW TYPE FITTINGS FOR 2-1/2" AND LARGER. SUPPORT TUBING WITH ONE-HOLE MALLEABLE OR TWO-HOLE GALVANIZED SHEET STEEL CLAMPS.
9. FLEXIBLE CONDUIT SHALL BE CONTINUOUS LENGTH SPIRALLY WOUND, GALVANIZED, INTERLOCKING STEEL WITH COMPRESSION FITTINGS, INSULATED-THROAT CONNECTORS, ANTI-SHORT BUSHINGS, AND SUPPORTED WITH GALVANIZED TWO-HOLE SHEET STEEL CLAMPS. LIQUID-TIGHT FLEXIBLE CONDUIT SHALL HAVE CONTINUOUS PLASTIC COATING AND GLAND-TYPE SEALED FITTINGS. UTILIZE .
10. RIGID NON-METALLIC CONDUIT SHALL BE SCHEDULE 40 PVC, NEMA TC 2.
11. USE CONDUIT AND TUBING FOR RACEWAYS IN THE FOLLOWING LOCATIONS:
    a. UNDERGROUND, HORIZONTAL RUNS .... PVC
    b. VERTICAL RISES FROM UNDERGROUND........ GRC (INCLUDING 90 DEGREE ELBOW)
    c. INSTALLATIONS IN CONCRETE......................... PVC
    d. EXPOSED EXTERIOR LOCATIONS.................... GRC
    e. WET INTERIOR LOCATIONS............................... GRC
    f. WHERE SUBJECT TO DAMAGE......................... GRC
    g. DRY INTERIOR LOCATIONS.............................. EMT
    h. FEEDERS LARGER THAN 2" (INTERIOR).......... GRC
12. LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) AND FLEXIBLE METAL CONDUIT (FMC) IS ONLY PERMITTED TO BE INSTALLED FOR CONNECTIONS TO VIBRATING EQUIPMENT AND SHALL HAVE A MAXIMUM LENGTH 72 INCHES. USE ANTI-SHORT BUSHINGS ON FLEXIBLE CONDUIT.
13. THE MINIMUM RACEWAY SIZE SHALL BE 1/2 INCH.
14. KEEP RACEWAYS AND ENCLOSURES PLUGGED AND CAPPED, OR COVERED UNTIL WIRING IS INSTALLED AND FINAL TRIM/COVER IS IN PLACE.
15. MC CABLE OR FMC SHALL NOT BE EXPOSED TO PHYSICAL DAMAGE. MC CABLE SHALL NOT BE IMBEDDED IN CONCRETE OR EXPOSED TO CINDER FILLS. FMC SHALL NOT BE IMBEDDED IN CONCRETE OR EXPOSED TO AGGREGATE. (NEC 330.12 & 348.12)
16. RACEWAYS AND CABLES MUST BE SECURELY FASTED AND SUPPORTED FROM THE STRUCTURE. ZIP TIES CANNOT BE USED TO SUPPORT RACEWAYS OR CABLES; THEY MAY BE USED TO BUNDLE OR HOLD RACEWAYS OR CABLES ONLY. RACEWAYS AND CABLES MUST BE SUPPORTED AND SECURED BY STAPLES, CABLE TIES, STRAPS, HANGERS, OR SIMILAR FITTINGS, UL LISTED FOR THIS PURPOSE. (NEC 300.11)
17. BENDS TO FMC SHALL BE MADE AS TO NOT SIGNIFICANTLY REDUCE THE INTERNAL DIAMETER (NEC 348.24).
18. EMT SHALL BE SUPPORTED IN 10 FT INTERVALS AND FASTENED WITHIN 3 FT OF EVERY TERMINATION POINT (NEC 358.30)
19. FMC SHALL BE SUPPORTED AT 4.5 FT INTERVALS AND SECURED WITHIN 12 INCHES OF EVERY BOX, CABINET, FITTING OR OTHER CABLE TERMINATION (NEC 348.30)
20. RACEWAYS MUST NOT BE USED AS A MEANS OF SUPPORT FOR OTHER RACEWAYS, CABLES (NEC 300.11)
21. GROUND CONDUITS, BOXES, MOTOR FRAMES, FIXTURE BODIES AND RECEPTACLE GROUND TERMINALS. MAINTAIN GROUND CONTINUITY THROUGH CONDUITS. PROVIDE SEPARATE GROUND CONDUCTORS IN ALL CIRCUITRY.
22. RACEWAYS AND OUTLETS PASSING THROUGH OR INSTALLED IN FIRE RATED CONSTRUCTION SHALL BE SEALED WITH U.L LISTED FIRE RATED SEALANT SYSTEM IN ACCORDANCE WITH SEALANT MANUFACTURERS' RECOMMENDATIONS. WHERE ELECTRICAL RACEWAYS ARE INSTALLED THROUGH RATED FLOORS OR WALLS, THE CONTRACTOR SHALL PROVIDE APPROPRIATE FIRE RATED DEVICES APPROVED BY ALL REQUIRED LOCAL AUTHORITIES FOR THE INTENDED APPLICATION.
23. RACEWAYS PENETRATING THROUGH ANY ROOF SHALL HAVE ROOF PITCH POCKETS AND FLASHING WITH CAULKING AND PIPE SLEEVE. INSTALLATION SHALL BE WATERTIGHT. ROOF MOUNTED CONDUIT SYSTEMS SHALL BE INSTALLED ON SYNTHIC RECYCLED RUBBER SUPPORT BASES SPACED TO MEET NEC REQUIREMENTS FOR THE SIZE OF THE CONDUIT.
24. MAINTAIN FIRE RATING OF WALLS, FLOORS, AND CEILINGS WHEN PERFORMING WORK AND INSTALLING DEVICES, BOXES, ETC. USE FIRE CAULK, "PUTTY PADS," AND OTHER APPROVED AND APPROPRIATE METHODS TO MAINTAIN RATING.
25. PROVIDE CONDUIT SEALING FITTINGS ON THE EXTERIOR SIDE OF THE CONDUIT ENTRIES INTO ALL COOLERS, FREEZERS AND REFRIGERATED SPACES TO PREVENT CONDENSATION FROM FORMING IN ELECTRICAL CONDUITS AT THE THERMAL TRANSITION BOUNDARIES.
26. ALL WORK SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE IN AN APPROVED MANNER AND FASTENED TO BUILDING CONSTRUCTION WITH LISTED AND CODE COMPLIANT SUPPORTS.
27. RACEWAYS AND CABLES SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.
28. PROVIDE EXPANSION AND DEFLECTION FITTINGS FOR CONDUITS CROSSING EXPANSION JOINTS. PROVIDE BONDING JUMPERS FOR ALL EXPANSION FITTINGS.
29. MULTI-WIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH A COMMON DISCONNECT AT THE SOURCE. THE DISCONNECT SHALL BE EITHER A MULTI-POLE CIRCUIT BREAKER OR INDIVIDUAL CIRCUIT BREAKERS WITH LISTED HANDLE TIES. ALL CIRCUIT CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED AND TIED TOGETHER IN AT LEAST ONE LOCATION IN THE PANEL. MULTI-WIRE BRANCH CIRCUITS SHALL ONLY SERVE SINGLE POLE LINE-TO-NEUTRAL LOADS.
30. OUTLET BOXES SHALL BE 4" SQUARE BY 2 1/8" DEEP (OR LARGER) RING AND COVER FOR GENERAL INTERIOR USE AND CAST METAL TYPE FS OR FD WITH MATCHING WEATHER PROOF SCREW-COVERS FOR EXTERIOR LOCATIONS (GASKETED IN DAMP OR WET LOCATIONS).
31. JUNCTION BOXES SHALL BE SAME AS OUTLET BOXES UP TO 42 CU IN. AND CODE-GAGE STEEL IN LARGER SIZES WITH SURFACE OR FLUSH-TYPE SCREW-MOUNTED TRIM/COVERS; BOTH BOXES AND COVERS INHIBITOR-PRIMED AND PAINTED INSIDE AND OUT.
32. PULL BOXES SHALL BE SAME AS JUNCTION BOXES UNLESS INDICATED OTHERWISE ON THE DRAWINGS, WITH COVERS.
33. BOXES SHALL BE SIZED PER NEC AND SUITABLE FOR THE USE INTENDED.
34. OUTLETS: MOUNTING HEIGHTS AND PLAN LOCATIONS OF OUTLETS, UNLESS DIMENSIONED EXPLICITLY, SHALL BE VERIFIED WITH THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION. PROVIDE BRACKETS, BAR-HANGERS, CLIPS, FASTENERS. BLOCKING AND OTHER SUPPORTS REQUIRED TO MOUNT AND RIGIDLY FIX OUTLETS. STRUCTURAL MEMBERS BY MEANS OF APPROVED BLOCKING, HANGER-BARS.

FIRE ALARM GENERAL NOTES

1. CONTRACTOR SHALL ENGAGE THE SERVICES OF A LOUISIANA LICENSED FIRE ALARM CONTRACTOR AND/OR MANUFACTURER TO PROVIDE A COMPLETE AND OPERABLE FIRE ALARM SYSTEM APPROVED BY THE AUTHORITY HAVING JURISDICTION UNDER THE BASE BID. CONTRACTOR SHALL BE RESPONSIBLE FOR AND INCLUDE IN BID ALL PLAN REVIEW AND PERMIT FEES, WHICH MAY BE APPLICABLE. COORDINATE WITH FIRE ALARM CONTRACTOR ANY ADDITIONAL DEVICES, OUTLETS OR CONNECTIONS REQUIRED FOR THE FIRE ALARM SYSTEM PRIOR TO BID. CONTRACTOR IS RESPONSIBLE TO ADD ANY ADDITIONAL ITEMS REQUIRED BUT NOT SHOWN ON THE DRAWINGS TO MEET THE AUTHORITY HAVING JURISDICTION REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL PROVIDE COMPLETE SYSTEM WIRING DIAGRAMS INCLUDING BUILDING FLOOR PLANS, SYSTEM COMPONENT SPECIFICATIONS, DEVICE LOCATIONS, ETC. FOR REVIEW AND APPROVAL BY AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR TO INCLUDE THE STATE FIRE MARSHAL'S FIRE ALARM SYSTEM CHECKLIST & FEE SCHEDULE AS PART OF FIRE ALARM SYSTEM SUBMITTAL.
3. PROVIDE ALL NECESSARY ELECTRICAL FEEDS ASSOCIATED WITH THE FIRE ALARM SYSTEM TO BOOSTER POWER SUPPLIES, FACP, ETC. WHETHER SPECIFICALLY SHOWN ON THESE DRAWINGS OR NOT. ELECTRICAL CONTRACTOR TO COORDINATE WITH THE FIRE ALARM CONTRACTOR AND PROVIDE THESE FEEDS IN THE BASE BID.
4. PROVIDE ALL NECESSARY LINE VOLTAGE FEEDS FROM NEAREST HOUSE RECEPTACLE CIRCUIT TO FIRE (IF REQUIRED) AND SMOKE DAMPERS (PROVIDE LOW VOLTAGE FROM FIRE ALARM IF LOW VOLTAGE DAMPER). CONNECT TO FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM AND HVAC CONTRACTOR.
5. WHERE DUCT DETECTORS ARE REQUIRED IN SUPPLY DUCTS, SHOULD DUCT BE DIVIDED PRIOR TO REACHING SIX STRAIGHT DUCT WIDTH DIMENSIONS, ADDITIONAL DUCT DETECTORS SHALL BE INSTALLED.
6. NFPA 72:10.15 IN AREAS NOT CONTINUOUSLY OCCUPIED, AUTOMATIC SMOKE DETECTION SHALL BE PROVIDED FOR EACH FIRE ALARM CONTROL UNIT, NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER, AND SUPERVISING STATION TRANSMITTING EQUIPMENT TO PROVIDE NOTIFICATION OF FIRE AT THAT LOCATION.
7. NFPA 72:12.2.4.3 THE INSTALLATION OF ALL WIRING, CABLE, AND EQUIPMENT SHALL BE IN ACCORDANCE WITH NFPA 70, NATIONAL ELECTRICAL CODE; AND, SPECIFICALLY WITH ARTICLE 760. CABLES SHALL BE PROTECTED AGAINST MECHANICAL INJURY IN ACCORDANCE WITH ARTICLE 760.
8. NFPA 72:17.12.2 WATERFLOW IN SPRINKLER SYSTEMS SHALL BE INDICATED WITHIN 90 SECONDS.
9. NFPA 72:10.7.2 FIRE ALARM SIGNALS SHALL BE DISTINCTIVE IN SOUND FROM OTHER SIGNALS AND THIS SOUND SHALL NOT BE USED FOR ANY OTHER PURPOSE.
10. NFPA 72:10.5.5 CONNECTIONS TO THE LIGHT AND POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
    10.1. NFPA 72:23.4.2 FIRE ALARM CIRCUITS SHALL COMPLY WITH SECTIONS 23.5 THROUGH 23.7.
11. NFPA 72:17.14.4 THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 3.5 FT. AND NOT MORE THAN 4 FT. ABOVE FLOOR LEVEL.
12. NFPA 72:17.7.1.11 SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEANUP OF ALL TRADES IS COMPLETE AND FINAL. FAILURE TO COMPLY WITH THIS REQUIREMENT COULD RESULT WITH NUMEROUS FALSE ALARMS AND UNNECESSARY REPLACEMENT COSTS.
13. NFPA 72:17.7.3.2.1 SIDEWALL MOUNTED SPOT-TYPE DETECTORS SHALL NOT BE LOCATED MORE THAN 12" DOWN FROM THE CEILING TO THE TOP OF THE DETECTOR.
14. LOCATION OF CEILING MOUNTED SMOKE/HEAT DETECTORS SHALL BE FIELD COORDINATED PRIOR TO ROUGH-IN.
    14.1. THE DETECTOR SHALL BE A MINIMUM OF 2' AWAY FROM LIGHT FIXTURES
    14.2. NFPA 72:A.17.7.4.1 DETECTORS SHALL NOT BE LOCATED WITHIN 3 FT. OF AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
15. NFPA 72:18.5.5.1 VISUAL NOTIFICATION APPLIANCES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS AT LEAST 80" AND NOT MORE THAN 96" ABOVE THE FINISHED FLOOR. (MOUNTING IN SLEEPING AREAS SHALL BE IN ACCORDANCE WITH SECTION 18.5.4.6).
    15.1. A) NFPA 72:18.5.4.3.2 VISIBLE NOTIFICATION DEVICES SHALL FLASH IN SYNCHRONIZATION, WHERE MORE THAN TWO ARE LOCATED WITHIN THE FIELD OF VIEW IN THE SAME ROOM OR ADJACENT SPACE.
16. 101:9.6.3.7 AUDIBLE ALARM INDICATING APPLIANCES SHALL BE EFFECTIVELY HEARD ABOVE THE AVERAGE AMBIENT SOUND LEVEL OCCURRING UNDER NORMAL CONDITIONS OF OCCUPANCY. THE MINIMUM AUDIBLE SOUND LEVEL REQUIRED FOR OCCUPANT NOTIFICATION SHALL BE WITHIN THE MINIMUM AUDIBLE LEVEL REQUIRED BY NFPA 72:7.18.4.3. SEE 72:A.18.4.3 FOR GUIDELINES. ACTUAL AMBIENT SOUND LEVEL MEASUREMENTS SHALL BE USED FOR COMPLIANCE VERIFICATION.
17. WHERE VISUAL NOTIFICATION APPLIANCES OR AUDIBLE/VISUAL NOTIFICATION APPLIANCES ARE LOCATED IN THE CEILING, LOCATE AS CLOSE TO THE CENTER OF THE ROOM AS POSSIBLE. COORDINATE FINAL LOCATION WITH ARCHITECT.
18. NFPA 72:26.6.3.2.1.4 A DIGITAL ALARM COMMUNICATOR TRANSMITTER, WHEN INSTALLED, SHALL BE CONNECTED TO TWO (2) SEPARATE MEANS OF TRANSMISSION AT THE PROTECTED PREMISES.
    18.1. NFPA 72:26.6.3.2.1.3 A DIGITAL ALARM COMMUNICATOR TRANSMITTER SHALL BE CAPABLE OF DISCONNECTING AN OUTGOING OR INCOMING TELEPHONE CALL.
19. NFPA 72:10.5.6 PROVIDE BATTERIES WITH SUFFICIENT CAPACITY TO ACCOMMODATE THE CALCULATED LOADS.
20. NFPA 72:10.18.2.3 THE OWNER'S MANUAL, THE INSTALLATION INSTRUCTIONS AND AS-BUILT RECORD DRAWINGS SHALL BE GIVEN TO THE OWNER UPON FINAL ACCEPTANCE OF THE SYSTEM.
21. ALL WIRING ASSOCIATED WITH FIRE ALARM SYSTEM REGARDLESS OF VOLTAGE SHALL BE RUN IN CONDUIT.
22. ALL MAGNETIC DOOR HOLDERS SHALL BE POWERED BY 24-VOLT POWER DERIVED FROM THE FIRE ALARM SYSTEM.
23. SMOKE DETECTORS SHALL NOT BE LOCATED LESS THAN 36 INCHES FROM CEILING PADDLE FAN BLADES.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
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ELECTRICAL NOTES

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LIGHTNING PROTECTION **GENERAL NOTES**

1. CONTRACTOR SHALL PROVIDE COMPLETE BUILDING LIGHTNING PROTECTION SYSTEM PER SECTION 265113 OF THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR NECESSARY FOR A COMPLETE INSTALLATION INCLUDING ALL NECESSARY AND REQUIRED HARDWARE, RACEWAY SYSTEMS, CABLING, CIRCUITRY, BONDING, GROUNDING, ETC.
2. THE LIGHTNING PROTECTION SYSTEM INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS, IN PARTICULAR:
   a. UNDERWRITERS LABORATORIES STANDARD 96A,
   b. NFPA 780,STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS,
   c. UL 96A, STANDARD FOR SAFETY INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEM
   d. LIGHTNING PROTECTION INSTITUTE 175, STANDARD FOR THE DESIGN, INSTALLATION,INSPECTION OF LIGHTNING PROTECTION SYSTEMS
3. IN GENERAL MOUNT AIR TERMINALS WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, AND RIDGE ENDS. AIR TERMINAL SHOULD PROJECT 10" ABOVE OBJECT PROTECTED.
4. AIR TERMINALS SHALL BE SPACED NO MORE THAN 20'-0" ALONG THE ROOF PERIMETER.
5. MAINTAIN DOWNWARD AND HORIZONTAL COURSING OF MAIN CONDUCTOR CABLE, NO BEND OF A CONDUCTOR SHALL FORM A FINAL INCLUDED ANGLE OF LESS THAN 90° NOR SHALL HAVE A RADIUS OF LESS THAN 8".
6. INTERCONNECT LIGHTNING PROTECTION GROUND WITH OTHER BUILDING GROUND SYSTEMS AS REQUIRED BY CODES. ELECTRIC SERVICE ENTRANCE GROUNDING SHALL BE INTERCONNECTED TO THE LIGHTNING PROTECTION GROUND CONNECTION SYSTEM.
7. GROUND ELECTRODES SHALL IN NO INSTANCE BE INSTALLED LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL. ELECTRODES SHALL PENETRATE EARTH AT LEAST 10'-0".
8. CONNECTIONS TO GROUND ROD SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW GRADE.
9. GROUND ALL METAL EQUIPMENT/COMPONENTS LOCATED ON THE ROOF, SUCH AS ROOF DRAINS, EXHAUST FANS,LADDERS, CABLE TRAY, ETC., AND ROOF FLASHING. ALL SUCH COMPONENTS TO BE BONDED TO THE LIGHTNING CONDUCTOR SYSTEM, IN PARTICULAR BOND ALL GUTTERS, FLASHING, ETC. TO PREVENT SIDE FLASH.
10. BOND ALL METALLIC PIPES INCLUDING DOMESTIC WATER, FIREWATER, GAS, SEWER, ETC. AT THE SERVCIE ENTRANCE TO THE BUILDING, TO THE NEAREST DOWN LEAD.
11. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT, WORKMANLIKE AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND WITH THE GENERAL LINES AND APPEARANCE OF THE BUILDING.
12. IN GENERAL, ALL CONDUCTORS TO BE INTERCONNECTED TO FORM A TWO-WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
13. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE ATTACHED WITH A MAXIMUM ATTACHMENT SPACING OF 36".
14. BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM SURFACES. CONTRACTOR IS RESPONSIBLE TO ASSURE THAT ALL LIGHTNING PROTECTION MATERIALS ARE COMPATIBLE WITH EACH OTHER AND SURFACES ATTACHED TO.
15. LIGHTNING ARRESTERS TO BE PROVIDED ON ELECTRICAL AND COMMUNICATION SYSTEMS SERVICE ENTRANCE EQUIPMENT.
16. DOWN LEAD CONDUCTORS SHALL NOT BE LOCATED EXPOSED OR ON EXTERIOR OF BUILDING.

TELECOMMUNICATION GENERAL NOTES

1. SEE IT SPECIFICATIONS FOR DETAILS OF THE IT INFRASTRUCTURE.
2. WORK TO INCLUDE (BUT NOT BE LIMITED TO) ALL CABLING, TERMINATIONS, TESTING & CERTIFICATION, CABLE TRAY SYSTEM, IT ROOMS, COPPER AND FIBER CABLES.
3. ALL COPPER DATA LINES SHALL BE TERMINATED ON ONE END IN A RJ-45 TYPE RECEPTACLE AS SHOWN ON DRAWINGS AND THE OTHER END SHALL BE IN A RACK-MOUNTED PATCH PANEL LOCATED IN THE NEAREST IT ROOMS. LENGTHS & MATERIALS SHALL ADHERE TO SPECIFICATIONS. DATA CABLING SHALL BE CAT6A TYPE. IN NO CASE SHALL ANY DATA CABLE LENGTH FROM PATCH PANEL TO RJ45 RECEPTACLE EXCEED 295 FEET.
4. ALL FIBER CABLING SHALL RUN FROM THE COMMUNICATIONS DEMARC ROOM TO THE RACK(S) INDICATED ON DRAWINGS AND SHALL BE PROPERLY TERMINATED IN FIBER PATCH PANELS ON BOTH ENDS. ALL MATERIALS SHALL ADHERE TO SPECIFICATIONS.
5. ALL PATCH PANELS & RACKS SHALL HAVE ENOUGH CAPACITY TO ALLOW FOR 50% FACTOR.
6. RACKS & CABLE TRAY SYSTEMS SHALL BE MOUNTED IN ALL IT ROOMS AS SHOWN ON PLANS.
7. ALL LOW-VOLTAGE CABLES TO BE RUN IN CONDUIT TO ABOVE ACCESSIBLE CEILINGS THEN SUPPORTED VIA J-HOOKS AT 4 FT INTERVALS (EIA/TIA 569) TO NEAREST CABLE TRAY OR TELECOMM ROOM AS APPLICABLE.
8. ALL CABLE TRAYS TO BE LOCATED ABOVE ACCESSIBLE CEILING WITH MAXIMUM OF 10' DISTANCE BETWEEN ACCESS POINTS. COORDINATE WITH ARCHITECT AND REFLECTED CEILING PLANS. PROVIDE CONDUIT SLEEVES THROUGH RATED PARTITIONS.
9. RUN CAT6 CABLES IN MINIMUM 3/4" CONDUIT TO THE NEAREST CABLE TRAY:
   - FOR 8 CABLES, USE 1-1/4" CONDUIT.
   - FOR 4 CABLES, USE 1" CONDUIT.
   - FOR 2 CABLES, USE 3/4" CONDUIT.
10. THE MINIMUM DATA RECEPTACLE INCLUDING WIRELESS ACCESS-POINTS (WAP'S) AND CAMERA LOCATIONS IS A DUAL RJ-45 WITH (2) CAT6 CABLES RUNNING TO THE NEAREST TR.
11. ALL WIRELESS ACCESS POINT TERMINATIONS TO BE INSTALLED ABOVE CEILING WHERE POSSIBLE. COORDINATE WITH OWNER/ARCHITECT.
12. ALL WIRELESS ACCESS POINTS (WAP'S) AND CAMERA LOCATIONS TO BE POWER OVER ETHERNET (POE).

SPECIAL SYSTEMS GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE RACEWAY SYSTEMS, CABLING AND GROUNDING NECESSARY FOR A COMPLETE INSTALLATION OF THE PAGING/INTERCOM. REFER TO PLANS FOR QUANTITIES, LOCATIONS AND CABLING DETAILS.
2. ROUTE ALL CABLING IN ¾" EMT (MIN.) UNLESS STATED OTHERWISE.
3. PROVIDE DEDICATED PATCH PANELS AND/OR DISTRIBUTION TERMINAL BLOCKS TO ESTABLISH CLEAR SEPARATION FROM OTHER SYSTEMS.
4. VERIFY MOUNTING HEIGHTS WITH ARCHITECT.

TYPICAL MOUNTING HEIGHTS

THE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHT OF ALL FIXTURES, DEVICES, AND OUTLETS WITH ALL DRAWINGS. SPECIAL MOUNTING HEIGHTS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THOSE GIVEN BELOW. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.

SWITCHES	WALL SWITCHES AND DIMMERS MANUAL MOTOR STARTERS	4'-0" 4'-0"
RECEPTACLES	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	1'-6" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH
MULTIOUTLET RACEWAY	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	3'-0" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH
TELEPHONE	DESK/TABLE WALL TELEPHONE ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	1'-6" 4'-8" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH
DATA OUTLETS	WALL ABOVE COUNTER WITHOUT BACKSPLASH ABOVE COUNTER WITH BACKSPLASH	1'-6" 0'-8" ABOVE TOP OF COUNTER 0'-4" ABOVE TOP OF BACKSPLASH
ELECTRICAL EQUIPMENT	SAFETY SWITCH MOTOR STARTER PANELBOARD COMMUNICATIONS CABINET	6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE 6'-6" TO TOP OF ENCLOSURE
TV CABLE OUTLET	WALL WALL BRACKET	1'-6" CENTERLINE OF BRACKET
CONTROL/ SECURITY	DOOR ALARM PUSHBUTTON DOOR ACCESS KEYPAD	4'-0" 4'-0" 4'-0"

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	LAMP	
					WATTS	TYPE
F1	METALUX	22CZ-LD4-39-UNV-L835-CD1-U	2'x2' VOLUMETRIC LED TROFFER, HIGH PERFORMANCE, LOW GLARE OPTICS, 0-10V DIMMING DRIVER	CEILING RECESSED	40W	LED, 3500K, 4000 LUMENS
F2	METALUX	24CZ-LD4-75-S-UNV-L835-CD1-U	2'x4' VOLUMETRIC LED TROFFER, HIGH PERFORMANCE, LOW GLARE OPTICS, 0-10V DIMMING DRIVER	CEILING RECESSED	75W	LED, 3500K, 7500 LUMENS
F3	HALO	LA4069351EWH, H245ICAT	4" LED ADJUSTABLE DOWNLIGHT, MEDIUM BEAM, WHITE REFLECTOR, ELV DIMMABLE	CEILING RECESSED	8W	LED, 3500K, 600 LUMENS
F4	HALO	SMD6R12935WH	6" SURFACE MOUNTED DOWNLIGHT, LOW-GLARE LENS, WHITE HOUSING	CEIILING SURACE	15W	LED, 3500K, 1200 LUM
F5	HALO	PD620ED010 PDM6835 64VW	6" LED DOWNLIGHT, 1500 LUMEN, MEDIUM BEAM, SPECULAR CLEAR REFLECTOR, 0-10V DIM	CEILING RECESSED	15W	LED, 3500K, 1500 LUMENS
F6	HALO	PD630ED010 PDM6835 64VW	6" LED DOWNLIGHT, 3000 LUMEN, MEDIUM BEAM, SPECULAR CLEAR REFLECTOR, 0-10V DIM	CEILING RECESSED	30W	LED, 3500K, 3000 LUM
F7	METALUX	8LBLED-LD4-22-SYMW-UNV-L840-CD4-SCF-U	8' LED HIGHBAY STRIP LIGHT, WHITE PAINTED STEEL HOUSING, FROSTED LENS	SUSPENDED	174W	LED, 4000K
F8	METALUX	8LBLED-LD4-16-ASYMW-UNV-L840-CD3-SCF-U	8' LED HIGHBAY STRIP LIGHT, WHITE PAINTED STEEL HOUSING, FROSTED LENS, ASYMMETRIC OPTICS	SUSPENDED	127W	LED, 4000K
F9	METALUX	4ILED-LD4-16-W-FL/UPL-UNV-L835-CD2-U	4' LED HIGHBAY, WHITE PAINTED STEEL HOUSING, FROSTED LENS, UPLIGHT	SUSPENDED	140W	LED, 4000K
F12	METALUX	4APVTLD-40L840	4' LED VAPORTIGHT, FIGERGLASS HOUSING WITH THREADED HUBS, FROSTED ACRYLIC LENS	SURFACE/ SUSPENDED	40W	LED, 4000K, 4000 LUMENS
F13	HALO	HU1048D940MB	4' LONG ULTRA LOW-PROFILE TASK LIGHT, INTEGRAL DIMMABLE DRIVER	CABINET SURFACE	10W	LED, 3500K
F14	METALUX	4SLSTP4040DD-UNV	4' LENSED LED, PAINTED STEEL HOUSING, FROSTED ACRYLIC LENS	SURFACE/ SUSPENDED	40W	LED, 4000K, 4000 LUMENS
F14 (W)	METALUX	SAME AS F14, WALL-MOUNTED				
F15	AMERICAN LINEAR LIGHTING	3S-12-MD-35-T1-WH	12' x 3" WIDE LINEAR SUSPENDED FIXTURE, DIRECT/INDIRECT DISTRIBUTION, 0-10V DIMMING DRIVER	RECESSED	96W	LED, 3500K, 9000 LUM
F16	AMERICAN LINEAR LIGHTING	3R-08-MD-35-OF	8' x 3" WIDE LINEAR RECESSED FIXTURE, DRYWALL FLANGE TRIM, FROSTED LENS, 0-10V DIMMING DRIVER	CEILING RECESSED	64W	LED, 3500K
F17	METALUX	2BCLED-LD4-20SL-F-UNV-L830	2' LUMINOUS SQUARE VANITY LIGHT, MATT WHITE ACRYLIC DIFFUSER	WALL	20W	LED, 3500K
F18	CANARM	CF52PRE5BN	52" CEILING FAN WITH LIGHT KIT, OPAL GLASS DIFFUSER, BRUSHED NICKEL, 4500 CFM	CEILING	87W	LED, 3000K, 100W EQUIV. A21
F19	CANARM	CP60HPWP WITH FRMC5 CONTROLLER	60" HIGH PERFORMANCE INDUSTRIAL CEILING FAN, REVERSIBLE MOTOR, 16" DOWNROD, WITH SPEED CONTROLLER	SUSPENDED	100W	N/A
F20	AMERLUX	FL1-MFL-[FINISH]	SMALL LED FLOOD LIGHT, WITH MEDIUM FLOOD OPTICS, GLARE SHIELD, INTERNAL LOUVERS,	WALL ARM	40W	LED, 4000K
F21	DIODE LED	BOXA-SW	FLEXIBLE TUBE LIGHT, FULLY ENCAPSULATED LEDS, WET LISTED WITH MOUNTING HARDWARE, CORDS/CONNECTORS, AND POWER SUPPLY	SURACE	3.3W PER FT	LED, 4000K
F22	TRACE LITE	TLED-NFL-79-VS-40K	MEDIUM WEDGE SHAPED, LOW-PROFILE WALL FIXTURE, CAST ALUMINUM CONSTRUCTION, DIRECT DISTRIBUTION	WALL SURFACE	80W	LED, 4000K, 7800 LUMENS
F23	BARTCO	BSW214-4-40-IN-H-SM-SN-[FINISH]	4' LINEAR LED WITH LENS, ROUGH-SURFACE, VANDAL RESISTENT, SIDE CONDUIT ENTRY	CANOPY SURFACE	30W	LED, 4000K, 2000 LUMENS
F24	AMERLUX	FL1-HWF-[FINISH]	SMALL LED FLOOD LIGHT, WITH WIDE HORIZONTAL OPTICS, GLARE SHIELD, INTERNAL LOUVERS,	WALL ARM	40W	LED, 4000K
F25	MCGRAW EDISON	GLEON-AE-10-LED-T3	LOW-PROFILE LED AREA/SITE LIGHT, 38 FT TAPERED STEEL POLE, T3 DISTRIBUTION	POLE	530W	LED, 4000K
F26	MCGRAW EDISON	GLEON-AE-10-LED-T3, GLEON-AE-10-LED-T3	DUAL LOW-PROFILE LED AREA/SITE LIGHT FXITURES MOUNTED ON 180 DEGREES OPPOSITE ON 38 FT TAPERED STEEL POLE, T3 DISTRIBUTION (BOTH)	POLE	1060W	LED, 4000K
X1	EXITRONIX	GCLED-1-WH-G2	WHITE THERMOPLASTIC LED EXIT SIGN, NUMBER OF FACES AND DIRECTIONAL ARROWS AS PER DRAWINGS OR AS REQUIRED, UNIVERSAL MOUNTING, SELF-POWERED, GREEN LETTERING, INTEGRAL LINEAR EMERGENCY LIGHT, REMOTE HEAD (AS SHOWN)	WALL/CEILING SURFACE		GREEN LED
X2	EXITRONIX	S902-WB-SR-GC-AG-G2	CLEAR ACRYLIC EDGELIT LED EXIT SIGN, BRUSHED ALUMINUM TRIM FINISH, NUMBER OF FACES AND DIRECTIONAL ARROWS AS PER DRAWINGS OR AS REQUIRED, UNIVERSAL MOUNTING, SELF-POWERED, GREENLETTERING	WALL/CEILING SURFACE		GREEN LED
	EXITRONIX	NFT-W-G2		WALL/CEILING SURFACE	8W	LED
E1	EXITRONIX	NFT-W-G2	LED EMERGENCY LIGHT, TWO ADJUSTABLE HEADS, WHITE PLASTIC CONSTRUCTION	WALL/CEILING SURFACE	8W	LED
E2	EXITRONIX	CP-EMW	LED EMERGENCY LIGHT, TWO ADJUSTABLE HEADS, VANDAL RESISTENT, POLYCARBONATE CONSTRUCTION	WALL/CEILING SURFACE	8W	LED
E3	EXITRONIX	MLED1	EMERGENCY REMOTE HEAD	WALL	4W	LED

FOOTNOTES:

A. COLOR TEMPERATURE OF ALL INTERIOR LIGHT FIXTURES SHALL BE 3500K, UNLESS INDICATED OTHERWISE.

B. COLOR TEMPERATURE OF ALL EXTERIOR LIGHT FIXTURES SHALL BE 4000K, UNLESS INDICATED OTHERWISE. ARCHITECT TO VERIFY ALL FINISHES.

C. ALL BALLASTS, DRIVERS, AND POWER SUPPLIES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.

D. COORDINATE AND PROVIDE ALL REQUIRED ACCESSORIES FOR MOUNTING CONNECTIONS AT ALL CEILING TYPES (REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES). PROVIDE FLANGE TYPE TRIMS, NUTS FOR TEGULAR TILE INSTALLATIONS, ETC. AS REQUIRED.

E. PROVIDE ALL MOUNTING HARDWARE AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. VERIFY LOCATIONS AND MOUNTING HEIGHTS OF WALL MOUNTED AND SUSPENDED FIXTURES WITH ARCHITECTURAL PLANS, SECTION, AND ELEVATIONS PRIOR TO ROUGH-IN.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
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5739 HIGHWAY 18
EDGARD, LA 70049

ELECTRICAL NOTES AND SCHEDULES

seal: STATE OF LOUISIANA — JEFFERY LAMBERT, License No. 37172 — PROFESSIONAL ENGINEER

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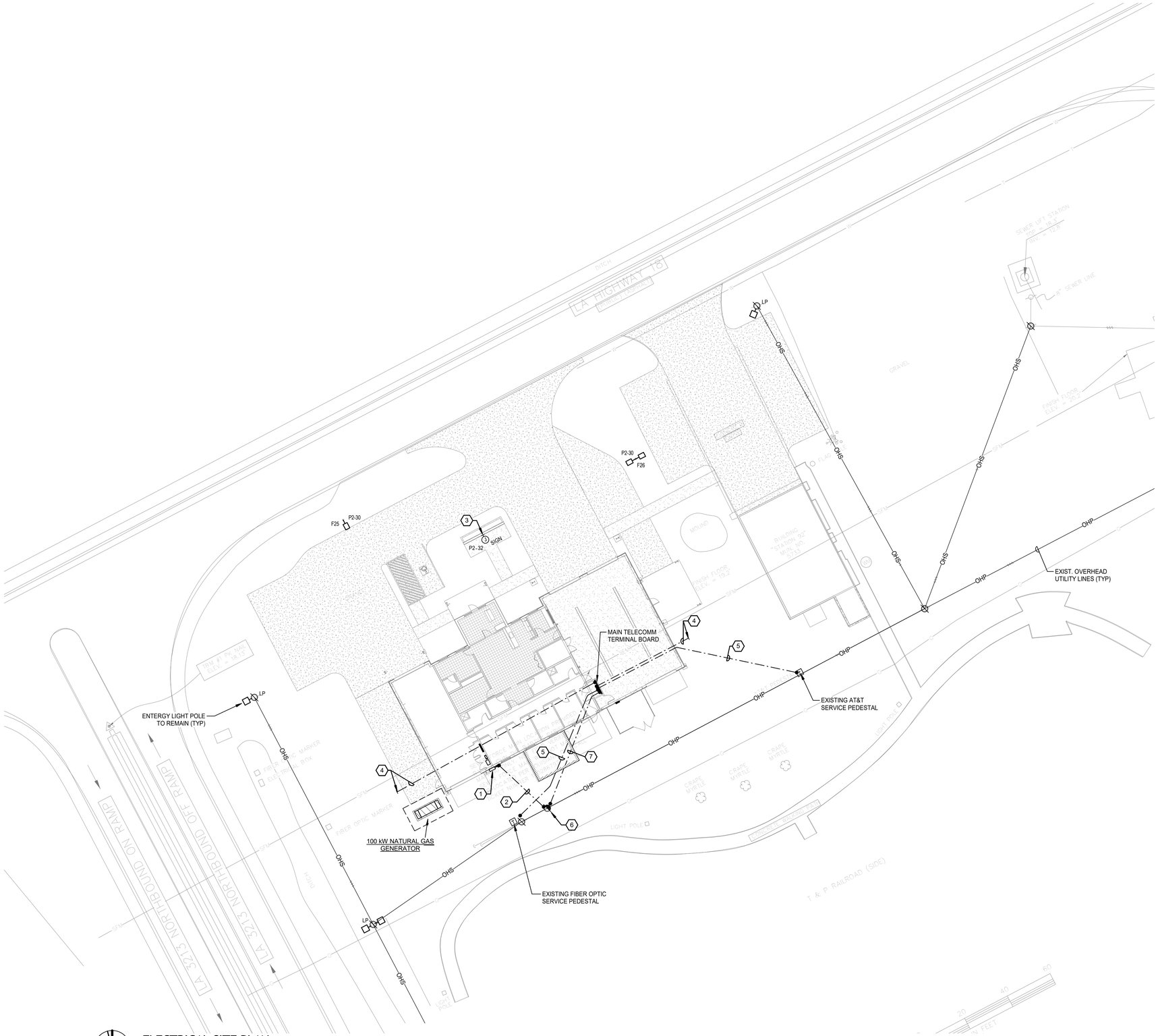

1 E101 ELECTRICAL SITE PLAN
1" = 20'-0"

SHEET GENERAL NOTES

A. ALL EXTERIOR LIGHTING CIRCUITS SHALL BE RUN THROUGH LIGHTING CONTACTOR. SEE EXTERIOR LIGHTING CONTROL DIAGRAM.

SHEET REFERENCE NOTES

1 ENTERGY METER AND MAIN SERVICE DISCONNECT. SEE POWER RISER DIAGRAM.

2 UNDERGROUND SERVICE LATERAL FROM SERVICE POLE TO BUILDING ENTERGY METER. INSTALL PER ENTERGY REQUIREMENTS. SEE POWER RISER DIAGRAM.

3 JUNCTION BOX RECESSED IN WALL FOR BACKLIT LETTERS SIGNAGE. SIZE BOX AS REQUIRED TO HOUSE ASSOCIATED POWER SUPPLY(S) AND OTHER ELECTRICAL DEVICES PER SIGN MANUFACTURER'S RECOMMENDATIONS. RUN WIRING AND CONDUIT CONCEALED THRU WALL WALL TO MAKE CONNECTION.

4 (1) 2" CONDUIT WITH TRACER WIRE RUN 36" (MIN) BELOW GRADE FROM MDF TO OUTSIDE THE BUILDING FOR FUTURE USE. STUB AND CAP BELOW GRADE.

5 CONDUIT WITH PULLCORD RUN UNDERGROUND FROM TELECOMM BACKBOARD TO AT&T PEDESTAL FOR VOICE-DATA TELEPHONE/FIBER SERVICE. SEE COMMUNICATIONS RISER DIAGRAM. VERIFY REQUIREMENTS WITH SERVICE PROVIDER.

6 NEW 208V-3PH TRANSFORMER BANK POLE BY ENTERGY. CONDUT A MEETING WITH ENTERGY TO VERIFY LOCATION AND REQUIREMENTS PRIOR TO TRENCHING. ADJUST WORK ACCORDINGLY.

7 CONDUIT WITH PULLCORD RUN UNDERGROUND FROM MAIN TELECOMM TERMINAL BOARD TO UTILITY POLE FOR CATV SERVICE. SEE COMMUNICATIONS RISER DIAGRAM. VERIFY REQUIREMENTS WITH SERVICE PROVIDER.

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Revisions

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ELECTRICAL SITE PLAN

seal: STATE OF LOUISIANA — JEFFERY LAMBERT License No. 37172 — PROFESSIONAL ENGINEER

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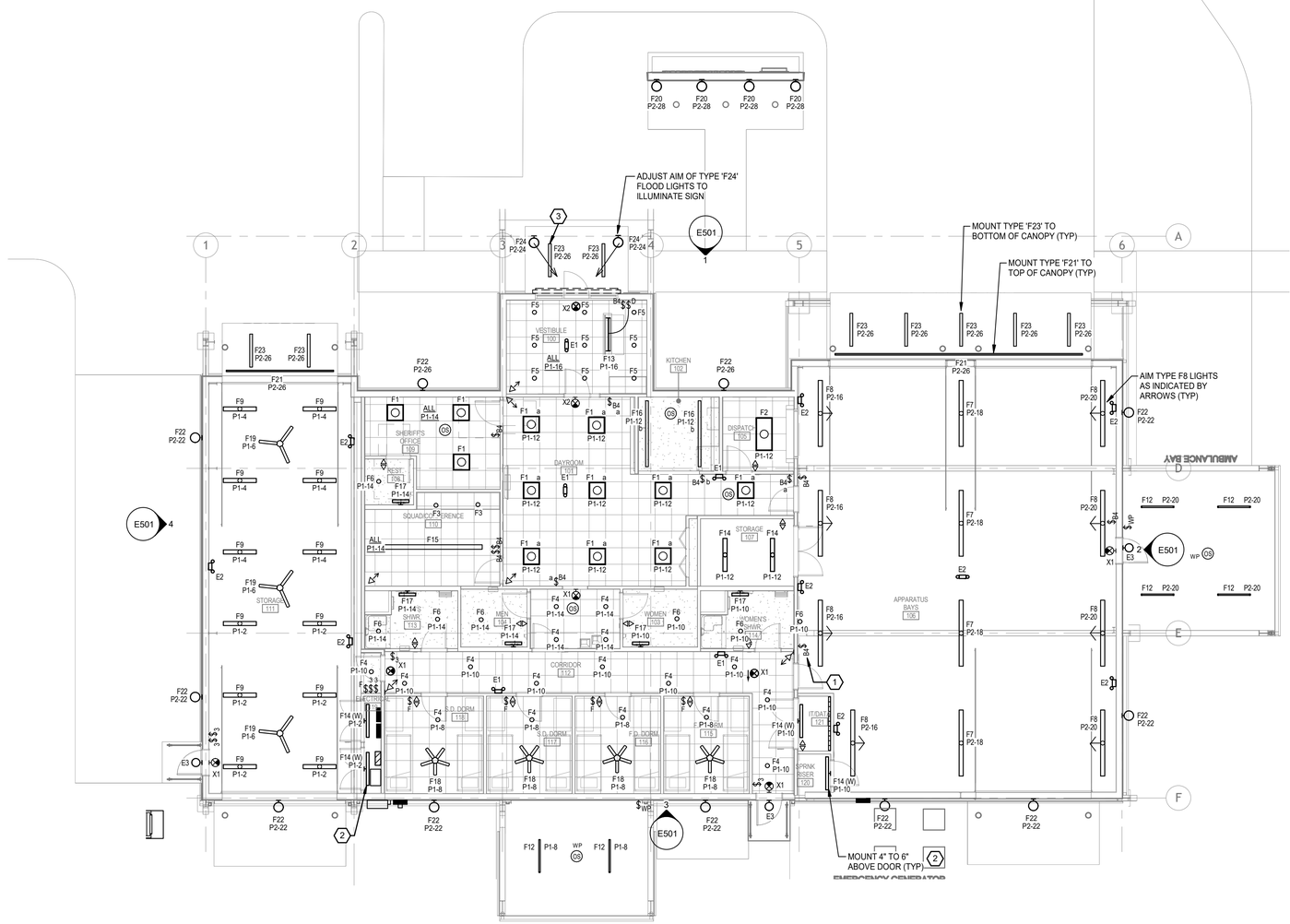

1 E201 LIGHTING PLAN
1/8" = 1'-0"

SHEET GENERAL NOTES

A. WALL SWITCHES SHOWN GROUPED SHALL BE INSTALLED IN MULTI-GANG BOXES WITH SINGLE FACEPLATE AS APPICALBLE.

B. RUN EXTERIOR LIGHTING CIRCUITS THRU LIGHTING CONTACTOR. SEE EXTERIOR LIGHTING CONTROL DIAGRAM.

C. CONNECT EXIT SIGNS AND EMERGENCY BATTERY PACKS TO UNSWITCHED HOT LEG OF THE LIGHTING BRANCH CIRUIT IN THE AREA THAT THEY ARE LOCATED.

(#) SHEET REFERENCE NOTES

1 'B4' TYPE SWITCHES: 4-BUTTON LOW-VOLTAGE SWITCH (WATTSTOPPER LMSW SERIES OR APPROVED EQUAL); SHALL CONTROL INDICATED SWITCHING GROUP/ZONE WITH THE FOLLOWING BUTTON PRESETS: "HIGH" - 100% LIGHT OUTPUT, "MED" - DIM TO 50% LIGHT OUPUT, "LOW" - DIM TO 5% LIGHT OUTPUT, "OFF" - TURN LIGHTS OFF. PROVIDE LOAD CONTROLLERS/RELAY PACKS AS REQUIRED. (TYPICAL)

2 PROVIDE 120V DOOR JAMB SWITCH (TORK TA502 OR APPROVED EQUAL) FOR CONROL OF LIGHT FIXTURE IN CLOSET.

3 PROVIDE UL 924 RATED, 30W, 120V REMOTE NICAD BATTERY EMERGENCY BACKUP POWER SUPPY WITH TEST SWITCH FOR 'F23' FIXTURE THAT WILL PROVIDE 90 (MIN) RUN TIME UPON LOSS OF NORMAL POWER. INSTALL IN CEILING OF ADJACENT VESTIBULE.

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Revisions

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EDGARD, LA 70049

LIGHTING PLAN

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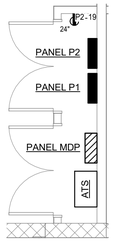
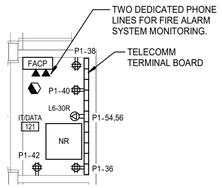
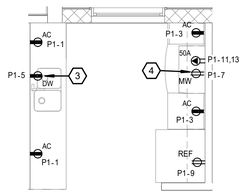


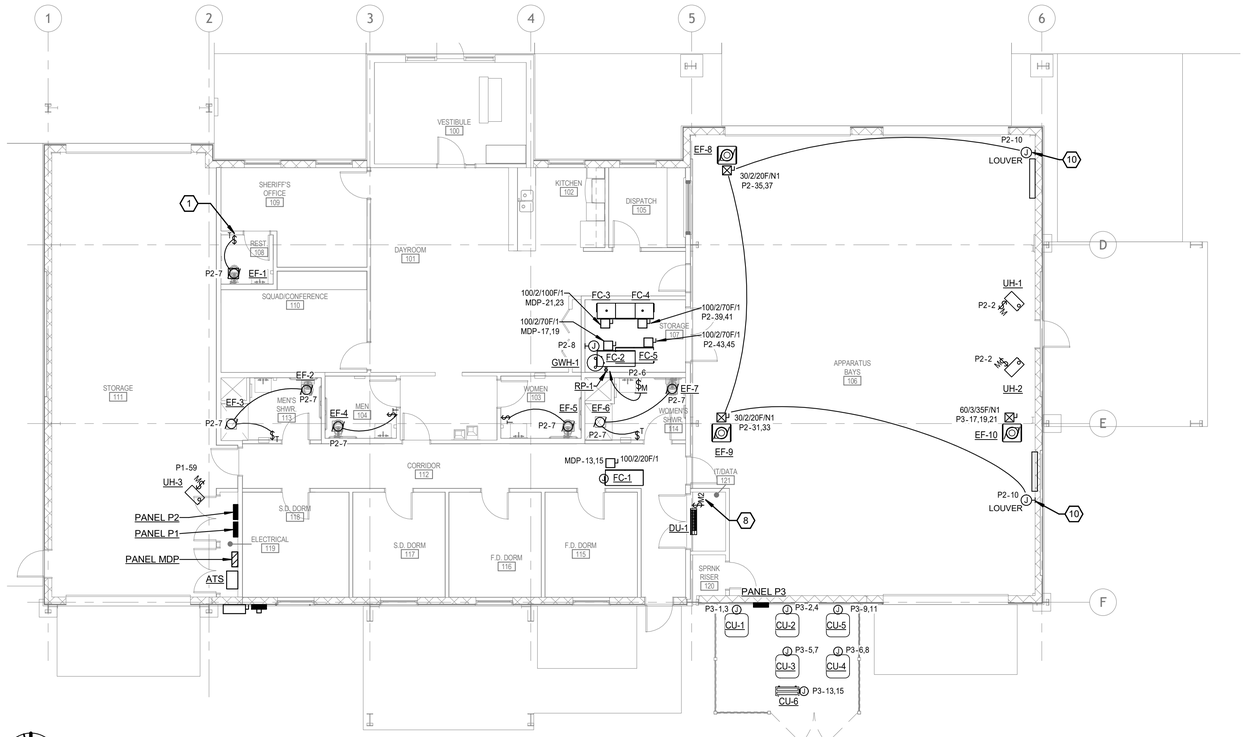
5 ENLARGED ELEC PLAN - ELECTRICAL 119
E301 1/4" = 1'-0"



3 ENLARGED ELEC PLAN - IT/DATA 121
E301 1/4" = 1'-0"



4 ENLARGED ELEC PLAN - KITCHEN
E301 1/4" = 1'-0"



2 MECHANICAL EQUIPMENT POWER PLAN
E301 1/8" = 1'-0"

1 POWER PLAN
E301 1/8" = 1'-0"

SHEET REFERENCE NOTES

1.1 NONE.xL TIMED SWITCH FOR CONTROL OF EXHAUST FAN - WATTSTOPPER RT-100 OR APPROVED EQUAL (TYP).

2 ENTERGY METER AND MAIN SERVICE DISCONNECT. SEE POWER RISER DIAGRAM.

3 GFCI RECEPTACLE FOR DISHWASHER BELOW COUNTER OF ADJACENT CABINET 24" AFF. PROVIDE 2#10, 1#10G SOOW CORD AND PLUG FOR DISHWASHER DISCONNECTING MEANS.

4 RECEPTACLE FOR MICROWAVE AND HOOD POWER. PROVIDE HARDWIRED ELECTRICAL CONNECTION IN LIEU OF RECEPTACLE AS APPLICABLE PER HOOD MANUFACTURER'S REQUIREMENTS. COORDINATE WITH ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN.

5 RUN CONTROL WIRING IN CONDUIT(S) AS REQUIRED FROM A.T.S. TO GENERATOR CONTROL PANEL. INSTALL TWO(2) ADDITIONAL 1" SPARE CONDUITS W/PULLCORD FOR FUTURE USE.

6 RUN 1"C WITH CABLING AS REQUIRED FROM GENERATOR TO REMOTE ANNUCIATOR PANEL LOCATED IN VESTIBULE.

7 INSTALL TWO (2) 1" SPARE CONDUITS W/PULLCORD FROM GENERATOR CONTROL PANEL TO PANEL P2.

8 POWER SHALL BE SUPPLIED BY ASSOCIATED OUTDOOR CONDENSING UNIT. RUN 2#12, 1#12(G) IN 3/4" C TO ASSOCIATED OUTDOOR CONDENSING UNIT.

9 J-BOX AND POWER CIRCUIT FOR FUTURE DOOR ACCESS POWER SUPPLY (TYP)

10 120V POWER FOR MOTORIZED DAMPER. INTERLOCK MOTORIZED DAMPER WITH EXHAUST FANS EF-8 AND EF-9 STARTER. REFER TO MECH PLANS.

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Revisions

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POWER PLANS

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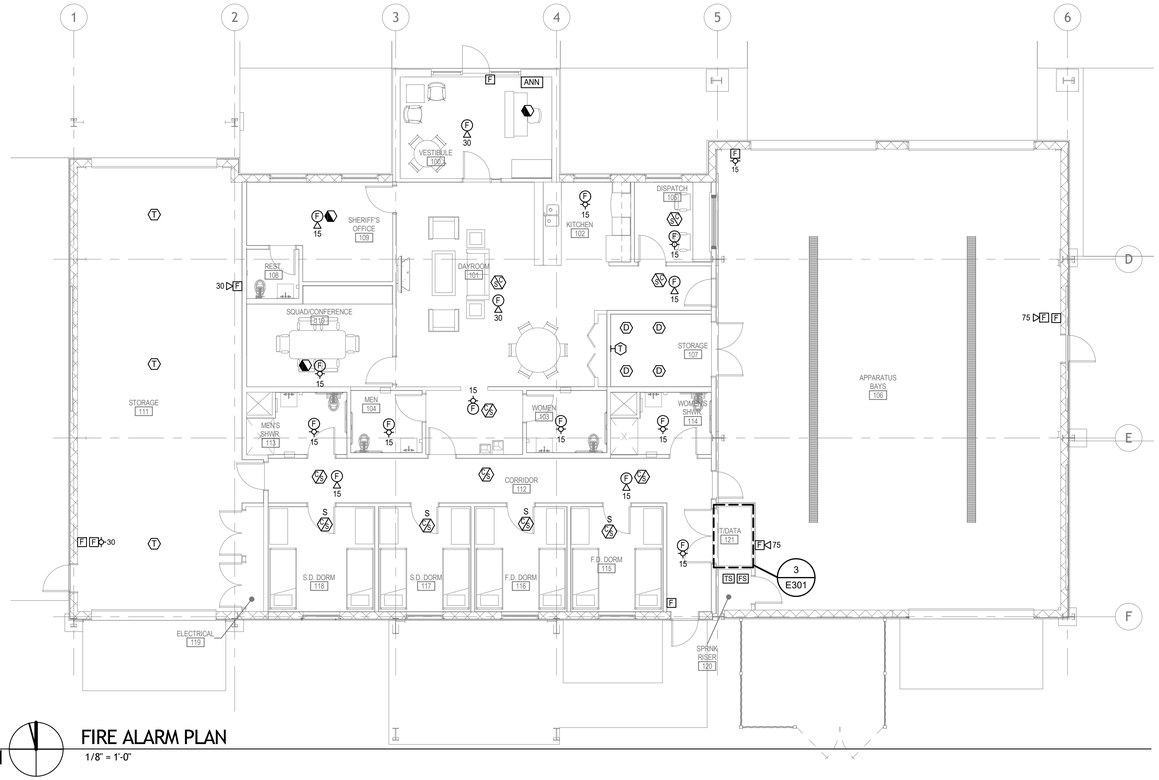
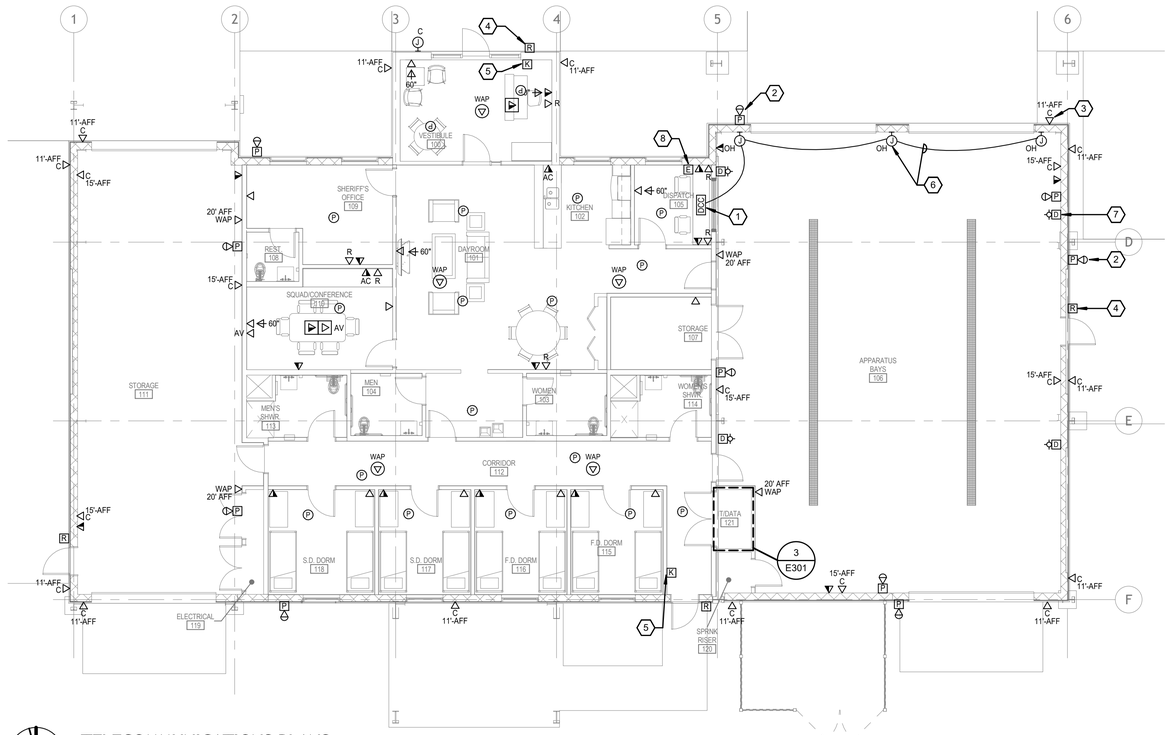


2 E401 **FIRE ALARM PLAN**
1/8" = 1'-0"



1 E401 **TELECOMMUNICATIONS PLANS**
1/8" = 1'-0"

SHEET REFERENCE NOTES

1 DUAL-FUNCTION DOOR ATTENDANT CONTROLLER CONSOLE, FOR AUDIO/VISUAL ANNUNCIATION AND DOOR RELEASE OF BOTH DOORS: QUANTOMETRIX OMNIPORT Q-9 OR APPROVED EQUAL. SYSTEM ACTIVATION SHALL BE TRIGGERABLE BY PUSH BUTTON. CONSOLE SHALL HAVE KEY OPERATED SWITCH TO DISABLE ANNUNCIATOR AND TO OVERRIDE DOOR RELEASE ALLOWING DOORS TO REMAIN OPEN. PROVIDE (4) STROBE LIGHTS IN APPARATUS BAY AS INDICATED. INTERLOCK STROBES, AND DOOR RELEASES TO CONTROLLER CONSOLE. COORDINATE EXACT HEIGHT ASSOCIATED JUNCTION BOX WITH ARCHITECT.

2 PAGING SYSTEM WALL LOUDSPEAKER 12' AFF. COORDINATE MOUNTING AND LOCATION ON BUILDING FA?ADE WITH ARCHITECT PRIOR TO ROUGH-IN. (TYPICAL)

3 J-BOX AND DATA CABLES FOR FUTURE CCTV CAMERA: 4" SQUARE x 2" DEEP RECESSED FLUSH IN WALL WITH TRIM RING AND BLANK WEATHERPROOF COVERPLATE. RUN (2) CAT6 FROM J-BOX TO MDF. COIL 12" (MIN) CABLE IN J-BOX. RUN CABLES IN 3/4" EMT IN EXPOSED AREAS TILL ABOVE ACCESSIBLE CEILINGS. PROVIDE LABEL ON COVERPLATE READING, "CAMERA". MOUNTING HEIGHTS PER OWNER'S DIRECTION. TYPICAL FOR TYPE 'C' DATA OUTLETS.

4 J-BOX FOR FUTURE P ACCESS CONTROL SYSTEM CARD READER: 4" SQUARE x 2" DEEP RECESSED J-BOX FLUSH IN WALL 48" AFF WITH TRIM RING AND BLANK COVERPLATE. RUN 3/4" C WIPULLCORD FROM BOX TO ABOVE NEAREST ACCESSIBLE CEILING. TERMINATE CONDUIT IN INSULATION BUSHING. (TYPICAL)

5 J-BOX FOR FUTURE INTRUSION DETECTION SYSTEM SECURITY KEYPAD: 4" SQUARE x 2" DEEP RECESSED FLUSH IN WALL 48" AFF WITH TRIM RING AND BLANK COVERPLATE. RUN 3/4" EMT WITH PULLCORD FROM J-BOX TO ABOVE NEAREST ACCESSIBLE CEILING. TERMINATE CONDUIT IN INSULATION BUSHING. PROVIDE LABEL ON COVERPLATE READING, "SECURITY SYSTEM KEYPAD". (TYPICAL)

6 PROVIDE CONTROL WIRING AS REQUIRED FROM DOOR CONTROLLER CONSOLE TO DOOR OPERATOR.

7 MOTORIZED ROLLUP DOOR SYSTEM STROBE. CONNECT TO DOOR ATTENDANT CONSOLE IN DISPATCH OFFICE AS REQUIRED. RUN CABLES IN 1/2" (MIN) EMT.

8 PROVIDE PUSHBUTTON INITIATING DEVICE CONNECTED TO THE PAGING SYSTEM. DEVICE SHALL INITIATE AUDIBLE ALARM TONE OVER PAGING SYSTEM SPEAKERS THROUGHOUT FACILITY. DEVICE SHALL BE RED AND HAVE WHITE LETTERS READING "EMERGENCY" AND SHALL BE PROVIDED WITH A CLEAR POLYCARBONATE COVER. PROVIDE ALL CABLING, RELAYS, CONNECTIONS, PROGRAMMING, ETC. REQUIRED FOR COMPLETE INSTALLATION.

MOSES ENGINEERS
CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
Fax 855-327-4815

SIZELER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
(504) 523-6472 FAX (504) 529-1181

Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

COMMUNICATIONS PLANS PLAN

seal: STATE OF LOUISIANA — JEFFERY LAMBERT — License No. 37172 — PROFESSIONAL ENGINEER

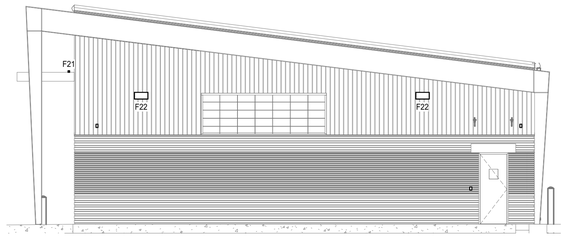
project number: 21238.00

date: OCTOBER 15, 2018

phase: BID DOCUMENTS

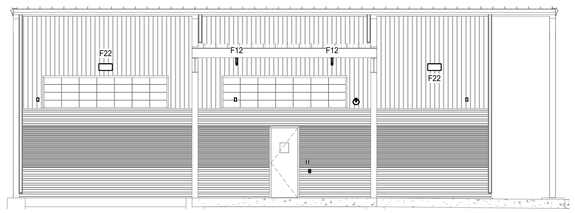
drawing number: E401

10/31/2018 9:45:31 AM



4 EXTERIOR LIGHTING ELEVATION - WEST
E501 1/8" = 1'-0"

3 EXTERIOR LIGHTING ELEVATION - SOUTH
E501 1/8" = 1'-0"



2 EXTERIOR LIGHTING ELEVATION - EAST
E501 1/8" = 1'-0"

1 EXTERIOR LIGHTING ELEVATION - NORTH
E501 1/8" = 1'-0"

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(504) 523-6472 FAX (504) 529-1181

Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

ELECTRICAL ENLARGED PLANS, SECTIONS, AND ELEVATIONS

seal
STATE OF LOUISIANA
JEFFERY LAMBERT
License No. 37172
PROFESSIONAL ENGINEER

project number 21238.00
date OCTOBER 15, 2018
phase BID DOCUMENTS

drawing number E501

10/17/2018 9:49:32 AM

PANEL P1

LOCATION: ELECTRICAL 119
SUPPLY SOURCE: MDP
VOLTAGE: 120/208 Wye
BUS: 225 A
MAINS RATING: 225 A
MAINS TYPE: MLO

BRANCHES: BOLT-ON
POLES: 60
MOUNTING: Surface
ENCLOSURE: NEMA 1
ACCESSORIE...

___ SHUNT TRIP MAIN CB
___ SERVICE ENTRANCE RATED
___ UL LISTED FEED-THROUGH LUGS
X UL LISTED SUB-FEED LUGS
___ ISOLATED GROUND BAR

AVAILABLE AIC: 5,625
AIC RATING: 10,000

___ SERIES RATED
X FULLY RATED

CKT#	DESCRIPTION	WIRE SIZE	TRIP	POLES	A		B		C		POLES	TRIP	WIRE SIZE	DESCRIPTION	CKT#
1	KITCHEN COUNTER RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	360	954					1	20 A	1-#12, 1-#12, 1-#12	LIGHTING - STORAGE 111	2
3	KITCHEN COUNTER RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			360	870			1	20 A	1-#12, 1-#12, 1-#12	LIGHTING - STORAGE 111	4
5	DISHWASHER	1-#12, 1-#12, 1-#12	20 A	1					1200	300	1	20 A	1-#12, 1-#12, 1-#12	CEILING FANS - STORAGE 111	6
7	MICROWAVE	1-#12, 1-#12, 1-#12	20 A	1	1200	516					1	20 A	1-#12, 1-#12, 1-#12	LIGHTING - DORMS	8
9	REFRIGERATOR	1-#12, 1-#12, 1-#12	20 A	1			720	458			1	20 A	1-#12, 1-#12, 1-#12	LIGHTING - CORRIDOR 112,...	10
11	RANGE	2-#8, 1-#8, 1-#10	50 A	2					500	660	1	20 A	1-#10, 1-#10, 1-#10	LIGHTING - DAYROOM, DISPATCH,...	12
13	--	--	--	--	500	497					1	20 A	1-#12, 1-#12, 1-#12	LIGHTING - CONFERENCE, SHERIFF	14
15	DAYROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			900	395			1	20 A	1-#12, 1-#12, 1-#12	LIGHTING FRONT VESTIBULE	16
17	DAYROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					720	0	1	20 A	--	SPARE	18
19	DORM ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	900	0					1	20 A	--	SPARE	20
21	DORM ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			1080	0			1	20 A	--	SPARE	22
23	DORM ROOM TV RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					720	0	1	20 A	--	SPARE	24
25	DORM ROOM TV RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	720	0					1	20 A	--	SPARE	26
27	DORM ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			900	0			1	20 A	--	SPARE	28
29	MENS SHWR/RR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					360	0	1	20 A	--	SPARE	30
31	WOMENS SHWR/RR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	360	0					1	20 A	--	SPARE	32
33	CORRIDOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			540	100			1	20 A	1-#12, 1-#12, 1-#12	DOOR ACCESS CONTROLLER	34
35	DISPATCH ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					360	360	1	20 A	1-#12, 1-#12, 1-#12	I.T./DATA RECEPTACLES	36
37	DISPATCH ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	720	360					1	20 A	1-#12, 1-#12, 1-#12	I.T./DATA RECEPTACLES	38
39	SHERIFFS OFFICE RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			1250	360			1	20 A	1-#12, 1-#12, 1-#12	I.T./DATA RECEPTACLES	40
41	SQUAD/CONF ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					360	360	1	20 A	1-#12, 1-#12, 1-#12	I.T./DATA RECEPTACLES	42
43	SQUAD/CONF ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	180	0					--	--	--	PROVISIONS	44
45	SQUAD/CONF ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			540	0			--	--	--	PROVISIONS	46
47	SQUAD/CONF ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					540	0	--	--	--	PROVISIONS	48
49	VESTIBULE RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	720	0					--	--	--	PROVISIONS	50
51	VESTIBULE RECEPTACLES	1-#10, 1-#10, 1-#10	20 A	1			900	0			--	--	--	PROVISIONS	52
53	EWC	1-#12, 1-#12, 1-#12	20 A	1					720	1250	2	30 A	2-#10, 1-#10, 1-#10	UPS RECEPTACLE	54
55	GENERATOR CONTROL CONSOLE	1-#12, 1-#12, 1-#12	20 A	1	0	1250					--	--	--	--	56
57	GENERATOR BATTERY CHARGER	1-#12, 1-#12, 1-#12	20 A	1			0	0			2	30 A	2-#10, 1-#10, 1-#10	GENERATOR BLOCK HEATER	58
59	UNIT HEATER UH-3	1-#12, 1-#12, 1-#12	20 A	1					180	0	--	--	--	--	60
		TOTAL LOAD (VA):			9237		9373		8590						
		TOTAL CURRENT (A):			78		79		72						

TOTAL CONNECTED LOAD: 27200 VA
TOTAL CONNECTED CURRENT: 75 A
ESTIMATED DEMAND LOAD: 24628 VA
ESTIMATED DEMAND CURRENT: 68 A

NOTES:

PANEL P2

LOCATION: ELECTRICAL 119
SUPPLY SOURCE: MDP
VOLTAGE: 120/208 Wye
BUS: 225 A
MAINS RATING: 225 A
MAINS TYPE: MLO

BRANCHES: BOLT-ON
POLES: 60
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
ACCESSORIE...

___ SHUNT TRIP MAIN CB
___ SERVICE ENTRANCE RATED
___ UL LISTED FEED-THROUGH LUGS
___ UL LISTED SUB-FEED LUGS
___ ISOLATED GROUND BAR

AVAILABLE AIC: 4,811
AIC RATING: 10,000

___ SERIES RATED
X FULLY RATED

CKT#	DESCRIPTION	WIRE SIZE	TRIP	POLES	A		B		C		POLES	TRIP	WIRE SIZE	DESCRIPTION	CKT#
1	APARATUS BAY CORD REELS	1-#10, 1-#10, 1-#10	20 A	1	1080	360					1	20 A	1-#12, 1-#12, 1-#12	APPARATUS BAY GAS HEATERS	2
3	APARATUS STOR RM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			360	120			1	20 A	1-#12, 1-#12, 1-#12	DOOR ACCESS CONTROLLER	4
5	APARATUS BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					540	180	1	20 A	1-#12, 1-#12, 1-#12	PUMP RP-1	6
7	BATHROOM EXHAUST FANS	1-#12, 1-#12, 1-#12	20 A	1	700	300					1	20 A	1-#12, 1-#12, 1-#12	WATER HEATER GWH-1	8
9	APARATUS BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			360	600			1	20 A	1-#12, 1-#12, 1-#12	MOTORIZED DAMPERS	10
11	APARATUS BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					540	0	1	20 A	--	SPARE	12
13	APARATUS BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	540	0					1	20 A	--	SPARE	14
15	APARATUS BAY OH DOOR	1-#10, 1-#10, 1-#10	20 A	1			1176	580			1	20 A	1-#12, 1-#12, 1-#12	LIGHTING - APPARATUS BAYS 106	16
17	APARATUS BAY OH DOOR	1-#10, 1-#10, 1-#10	20 A	1					1176	580	1	20 A	1-#12, 1-#12, 1-#12	LIGHTING - APPARATUS BAYS 106	18
19	STORAGE BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	540	820					1	20 A	1-#10, 1-#10, 1-#10	LIGHTING - APPARATUS BAYS 106	20
21	APARATUS BAY OH DOOR	1-#12, 1-#12, 1-#12	20 A	1			1176	450			1	20 A	1-#10, 1-#10, 1-#10	LIGHTING	22
23	STORAGE BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					360	80	1	20 A	1-#12, 1-#12, 1-#12	SIGNAGE LIGHTS	24
25	STORAGE BAY OH DOOR	1-#12, 1-#12, 1-#12	20 A	1	1176	645					1	20 A	1-#10, 1-#10, 1-#10	FRONT EXTERIOR LIGHTING	26
27	STORAGE BAY OH DOOR	1-#12, 1-#12, 1-#12	20 A	1			1176	160			1	20 A	1-#12, 1-#12, 1-#12	FLAG LIGHTS	28
29	STORAGE BAY COORD REELS	1-#12, 1-#12, 1-#12	20 A	1					720	1590	1	20 A	1-#6, 1-#6, 1-#6	EXTERIOR POLE LIGHTS	30
31	EXHAUST FAN EF-9	2-#12, 1-#12, 1-#12	20 A	2	606	120					1	20 A	1-#12, 1-#12, 1-#12	FRONT SIGN LETTERS	32
33	--	--	--	--	--		606	0			1	20 A	--	SPARE	34
35	EXHAUST FAN EF-8	2-#12, 1-#12, 1-#12	20 A	2					606	0	1	20 A	--	SPARE	36
37	--	--	--	--	606	0					1	20 A	--	SPARE	38
39	HVAC UNIT FC-4	2-#12, 1-#12, 1-#12	20 A	2			520	0			1	20 A	--	SPARE	40
41	--	--	--	--					520	0	1	20 A	--	SPARE	42
43	HVAC UNIT FC-5	2-#12, 1-#12, 1-#12	20 A	2	520	0					1	20 A	--	SPARE	44
45	--	--	--	--			520	0			1	20 A	--	SPARE	46
47	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					540	0	1	20 A	--	SPARE	48
49	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	360	0					2	20 A	--	SPARE	50
51	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			540	0			--	--	--	--	52
53	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1					720	0	2	20 A	--	SPARE	54
55	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	360	0					--	--	--	--	56
57	SPARE	--	20 A	1			0	0			2	30 A	--	SPARE	58
59	SPARE	--	20 A	1					0	0	--	--	--	--	60
		TOTAL LOAD (VA):			8430		8231		7943						
		TOTAL CURRENT (A):			71		69		66						

TOTAL CONNECTED LOAD: 24581 VA
TOTAL CONNECTED CURRENT: 68 A
ESTIMATED DEMAND LOAD: 25809 VA
ESTIMATED DEMAND CURRENT: 72 A

NOTES:

PANEL MDP

LOCATION: ELECTRICAL 119
SUPPLY SOURCE: UTILITY METER
VOLTAGE: 120/208 Wye
BUS: 400 A
MAINS RATING: 400 A
MAINS TYPE: MLO

BRANCHES: BOLT-ON
POLES: 30
MOUNTING: Surface
ENCLOSURE: NEMA 1
ACCESSORIE...

___ SHUNT TRIP MAIN CB
___ SERVICE ENTRANCE RATED
___ UL LISTED FEED-THROUGH LUGS
___ UL LISTED SUB-FEED LUGS
___ ISOLATED GROUND BAR

AVAILABLE AIC: 5,660
AIC RATING: 10,000

___ SERIES RATED
X FULLY RATED

CKT#	DESCRIPTION	WIRE SIZE	TRIP	POLES	A		B		C		POLES	TRIP	WIRE SIZE	DESCRIPTION	CKT#
1	PANEL P1	3-#4/0, 1-#4/0, 1-#4	225 A	3	9237	8430					3	225 A	3-#4/0, 1-#4/0, 1-#4	PANELS P2	2
3	--	--	--	--			9373	8231			--	--	--	--	4
5	--	--	--	--					8590	7943	--	--	--	--	6
7	PROVISION (200A FRAME)	--	200 A	3	0	12230					3	225 A	3-#4/0, 1-#4/0, 1-#4	PANEL P3	8
9	--	--	--	--			0	9339			--	--	--	--	10
11	--	--	--	--					0	8674	--	--	--	--	12
13	HVAC UNIT FC-1	2-#4, 1-#4, 1-#8	70 A	2	5020	0					3	100 A	--	PROVISION (100A FRAME)	14
15	--	--	--	--			5020	0			--	--	--	--	16
17	HVAC UNIT FC-2	2-#4, 1-#4, 1-#8	70 A	2					5520	0	--	--	--	--	18
19	--	--	--	--	5520	0					2	100 A	--	PROVISION (100A FRAME)	20
21	HVAC UNIT FC-3	2-#3, 1-#3, 1-#8	100 A	2			8020	0			--	--	--	--	22
23	--	--	--	--					8020	0	2	100 A	--	PROVISION (100A FRAME)	24
25	PROVISION (100A FRAME)	--	100 A	3	0	0					--	--	--	--	26
27	--	--	--	--			0	0			2	100 A	--	PROVISION (100A FRAME)	28
29	--	--	--	--					0	0	--	--	--	--	30
		TOTAL LOAD (VA):			40375		39977		38690						
		TOTAL CURRENT (A):			338		335		322						

TOTAL CONNECTED LOAD: 119037 VA
TOTAL CONNECTED CURRENT: 330 A
ESTIMATED DEMAND LOAD: 109593 VA
ESTIMATED DEMAND CURRENT: 304 A

NOTES:

PANEL P3

LOCATION:
SUPPLY SOURCE: MDP
VOLTAGE: 120/208 Wye
BUS: 225 A
MAINS RATING: 225 A
MAINS TYPE: MLO

BRANCHES: BOLT-ON
POLES: 24
MOUNTING: Surface
ENCLOSURE: NEMA 3R
ACCESSORIE...

___ SHUNT TRIP MAIN CB
___ SERVICE ENTRANCE RATED
___ UL LISTED FEED-THROUGH LUGS
___ UL LISTED SUB-FEED LUGS
___ ISOLATED GROUND BAR

AVAILABLE AIC: 4,398
AIC RATING: 10,000

___ SERIES RATED
X FULLY RATED

CKT#	DESCRIPTION	WIRE SIZE	TRIP	POLES	A		B		C		POLES	TRIP	WIRE SIZE	DESCRIPTION	CKT#
1	HVAC UNIT CU-1	2-#12, 1-#12, 1-#12	20 A	2	1508	2028					2	35 A	2-#8, 1-#8, 1-#10	HVAC UNIT CU-2	2
3	--	--	--	--			1508	2028			--	--	--	--	4
5	HVAC UNIT CU-3	2-#8, 1-#8, 1-#10	40 A	2					2891	2891	2	40 A	2-#8, 1-#8, 1-#10	HVAC UNIT CU-4	6
7	--	--	--	--	2891	2891					--	--	--	--	8
9	HVAC UNIT CU-5	2-#8, 1-#8, 1-#10	40 A	2			2891								10
11	--	--	--	--					2891						12
13	HVAC UNIT CU-7	2-#8, 1-#8, 1-#10	40 A	2	2912	0					--	--	--	PROVISIONS	14
15	--	--	--	--			2912	0			--	--	--	PROVISIONS	16
17	APPARATUS BAY EXHAUST FAN EF-10	3-#8, 1-#8, 1-#10	35 A	3					0	0	--	--	--	PROVISIONS	18
19	--	--	--	--	0	0					--	--	--	PROVISIONS	20
21	--	--	--	--			0	0			--	--	--	PROVISIONS	22
23	SPARE	--	20 A	1					0	0	--	--	--	PROVISIONS	24
		TOTAL LOAD (VA):			12230		9339		8674						
		TOTAL CURRENT (A):			103		79		72						

TOTAL CONNECTED LOAD: 30243 VA
TOTAL CONNECTED CURRENT: 84 A
ESTIMATED DEMAND LOAD: 30243 VA
ESTIMATED DEMAND CURRENT: 84 A

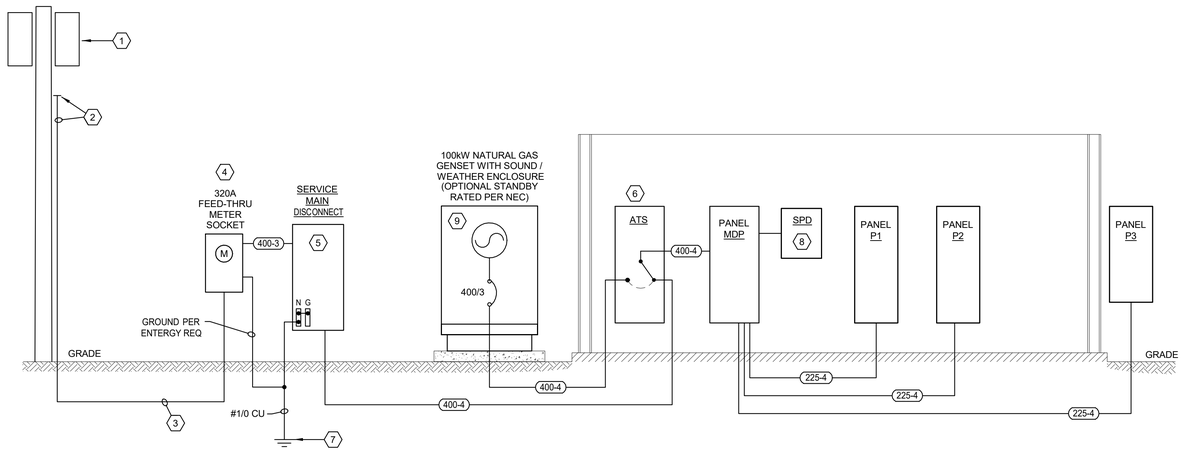
NOTES:

FEEDER SCHEDULE 3-PHASE, 4-WIRE

TYPE	COPPER CONDUCTORS	ALUMINUM CONDUCTORS
15-4	4#12, 1#12(G), 3/4" C	N/A
20-4	4#12, 1#12(G), 3/4" C	N/A
25-4	4#10, 1#10(G), 3/4" C	N/A
30-4	4#10, 1#10(G), 3/4" C	N/A
35-4	4#8, 1#10(G), 3/4" C	N/A
40-4	4#8, 1#10(G), 3/4" C	N/A
45-4	4#8, 1#10(G), 3/4" C	N/A
50-4	4#8, 1#10(G), 3/4" C	N/A
60-4	4#6, 1#10(G), 1" C	N/A
70-4	4#4,1#8(G), 1-1/4" C	N/A
80-4	4#4,1#8(G), 1-1/4" C	N/A
90-4	4#3,1#8(G), 1-1/4" C	N/A
100-4	4#3,1#8(G), 1-1/4" C	N/A
110-4	4#2,1#6(G), 1-1/4" C	N/A
125-4	4#1, 1#6(G), 1-1/2" C	N/A
150-4	4#1/0, 1#6(G), 2" C	4#3/0, 1#6(G), 2" C
175-4	4#2/0, 1#6(G), 2" C	4#4/0, 1#6(G), 2-1/2" C
200-4	4#3/0, 1#6(G), 2" C	4#250, 1#6(G), 2-1/2"C
225-4	4#4/0, 1#4(G), 2-1/2" C	4#300, 1#4(G), 2-1/2"C
250-4	4#250, 1#4(G), 2-1/2" C	4#350, 1#4(G), 3" C
300-4	4#350, 1#4(G), 3" C	4#500, 1#4(G), 3-1/2" C
350-4	4#400, 1#3(G), 3" C	2 SETS OF 4#4/0, 1#3(G), 2-1/2"C
400-4	4#500, 1#3(G), 3-1/2" C	2 SETS OF 4#250, 1#3(G), 2-1/2"C
500-4	2 SETS OF 4#250, 1#2(G), 2-1/2" C	2 SETS OF 4#350, 1#2(G), 3" C
600-4	2 SETS OF 4#350, 1#1(G), 3" C	2 SETS OF 4#500, 1#1(G), 3-1/2" C
700-4	2 SETS OF 4#400, 1#1/0(G), 3" C	3 SETS OF 4#300, 1#1/0(G), 2-1/2"C
800-4	2 SETS OF 4#500, 1#1/0(G), 3-1/2" C	3 SETS OF 4#400, 1#1/0(G), 3"C

FEEDER SCHEDULE 3-PHASE, 3-WIRE (NO NEUTRAL) AND 1-PHASE, 3-WIRE

TYPE	COPPER CONDUCTORS	ALUMINUM CONDUCTORS
15-3	3#12, 1#12(G), 3/4" C	N/A
20-3	3#12, 1#12(G), 3/4" C	N/A
25-3	3#10, 1#10(G), 3/4" C	N/A
30-3	3#10, 1#10(G), 3/4" C	N/A
35-3	3#8, 1#10(G), 3/4" C	N/A
40-3	3#8, 1#10(G), 3/4" C	N/A
45-3	3#8, 1#10(G), 3/4" C	N/A
50-3	3#8, 1#10(G), 3/4" C	N/A
60-3	3#6, 1#10(G), 1" C	N/A
70-3	3#4,1#8(G), 1-1/4" C	N/A
80-3	3#4,1#8(G), 1-1/4" C	N/A
90-3	3#3,1#8(G), 1-1/4" C	N/A
100-3	3#3,1#8(G), 1-1/4" C	N/A
110-3	3#2,1#6(G), 1-1/4" C	N/A
125-3	3#1, 1#6(G), 1-1/2" C	N/A
150-3	3#1/0, 1#6(G), 2" C	3#3/0, 1#6(G), 2" C
175-3	3#2/0, 1#6(G), 2" C	3#4/0, 1#6(G), 2-1/2" C
200-3	3#3/0, 1#6(G), 2" C	3#250, 1#6(G), 2-1/2"C
225-3	3#4/0, 1#4(G), 2-1/2" C	3#300, 1#4(G), 2-1/2"C
250-3	3#250, 1#4(G), 2-1/2" C	3#350, 1#4(G), 3" C
300-3	3#350, 1#4(G), 3" C	3#500, 1#4(G), 3-1/2" C
350-3	3#400, 1#3(G), 3" C	2 SETS OF 3#4/0, 1#3(G), 2-1/2"C
400-3	3#500, 1#3(G), 3-1/2" C	2 SETS OF 3#250, 1#3(G), 2-1/2"C
500-3	2 SETS OF 3#250, 1#2(G), 2-1/2" C	2 SETS OF 3#350, 1#2(G), 3" C
600-3	2 SETS OF 3#350, 1#1(G), 3" C	2 SETS OF 3#500, 1#1(G), 3-1/2" C
700-3	2 SETS OF 3#400, 1#1/0(G), 3" C	3 SETS OF 3#300, 1#1/0(G), 2-1/2"C
800-3	2 SETS OF 3#500, 1#1/0(G), 3-1/2" C	3 SETS OF 3#400, 1#1/0(G), 3"C



1 POWER RISER DIAGRAM
E601 N.T.S.

SHEET REFERENCE NOTES

1. NEW 208Y/120V, 3-PHASE TRANSFORMER BANK POLE BY ENTERGY. COORDINATE WITH ENTERGY FOR ALL REQUIREMENTS RELATED TO ESTABLISHING SERVICE AND ADJUST WORK ACCORDINGLY.
2. RISE AND TERMINATE ON POLE PER UTILITY REQUIREMENTS.
3. 2-4" EMPTY CONDUITS WITH PULL STRINGS. INSTALL PER ENTERGY REQUIREMENTS. CONFIRM CONDUIT SIZE AND QUANTITY WITH ENTERGY.
4. PROVIDE UTILITY METERING AS REQUIRED BY ENTERGY INCLUDING METER SOCKET, ENLOSURES, CABINETS, ETC.
5. 400A/3P, 100% RATED, 208Y/120V 3-PH, 4W, NEMA 3R ENCLOSED CIRCUIT BREAKER. SERVICE ENTRANCE RATED GROUND PER NEC ARTICLE 250.32.
6. 400A/3P, 208Y/120V 3-PH, 4W AUTOMATIC TRANSFER SWITCH. 3-POLE, CLOSED TRANSITION, WITH NEMA 1 ENLOSURE.
7. GROUNDING ELECTRODE CONDUCTOR. SEE GROUNDING SYSTEM DETAIL
8. 200kAIC SURGE PROTECTIVE DEVICE. PROVIDE CIRCUIT BREAKER IN PANEL MDP TO FEED SPD PER MANUFACTURER'S REQUIREMENTS.

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Revisions

No.	Description	Date

ST JOHN THE BAPTIST PARISH
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POWER RISER DIAGRAM AND PANEL SCHEDULES

seal: STATE OF LOUISIANA — JEFFERY LAMBERT — License No. 37172 — PROFESSIONAL ENGINEER

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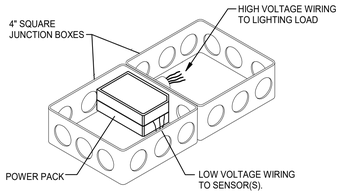
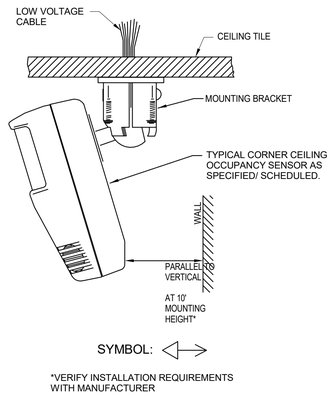
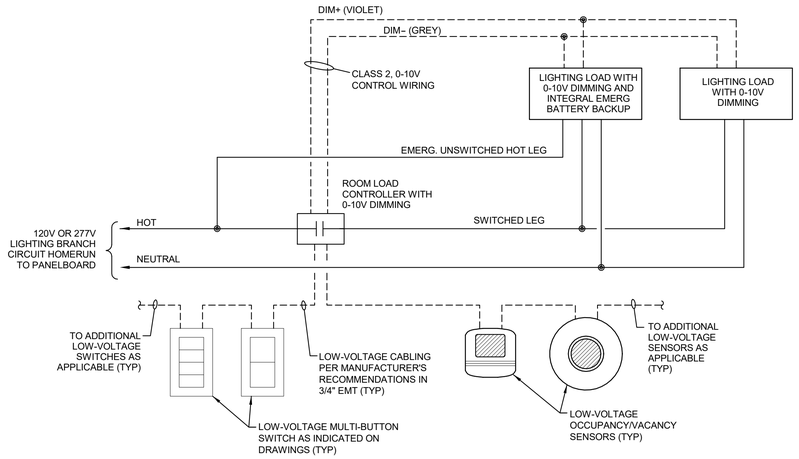


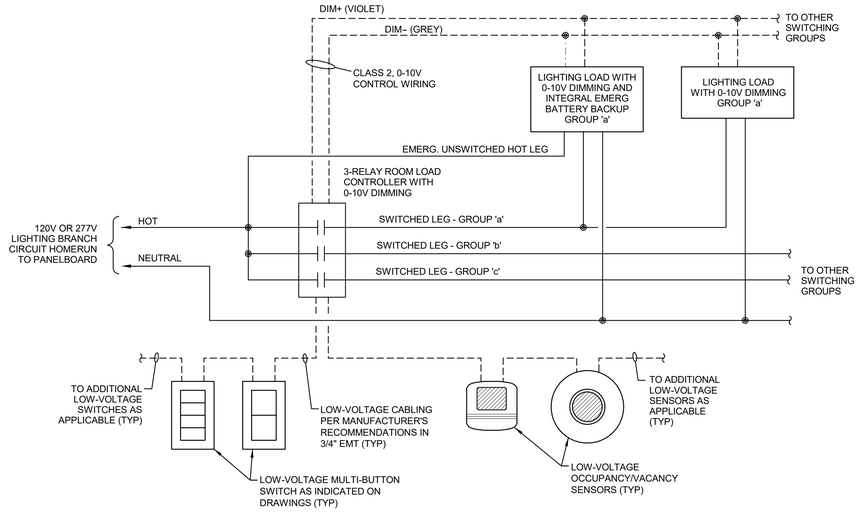
1 E801 OCCUPANCY SENSOR POWER PACK DETAIL
N.T.S.



2 E801 CORNER CEILING OCCUPANCY SENSOR DETAIL
N.T.S.



SINGLE-RELAY ROOM CONTROLLER



MULTI-RELAY ROOM CONTROLLER

3 E801 OCCUPANCY/VACANCY SENSOR LIGHTING CONTROL SCHEMATICS WITH DIMMING
N.T.S.

GENERAL NOTES - OCC / VAC SENSORS

1. ALL SENSOR LOCATIONS ARE APPROXIMATE REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PRIOR TO INSTALLATION.
2. SENSOR COVERAGE AREAS AND PATTERNS VARY BY MANUFACTURER. CONTRACTOR SHALL VERIFY SENSOR LAYOUT WITH CHOSEN MANUFACTURER'S COVERAGE PATTERNS PRIOR TO INSTALLATION.
3. ADJUST SENSOR LOCATIONS TO ALLOW FOR PROPER OPERATION WHERE THERE ARE OBSTRUCTIONS THAT AFFECT OPERATION OF SENSORS. CONTRACTOR SHALL VERIFY THE REQUIRED NUMBER OF POWER PACKS; ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.

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ELECTRICAL DETAILS

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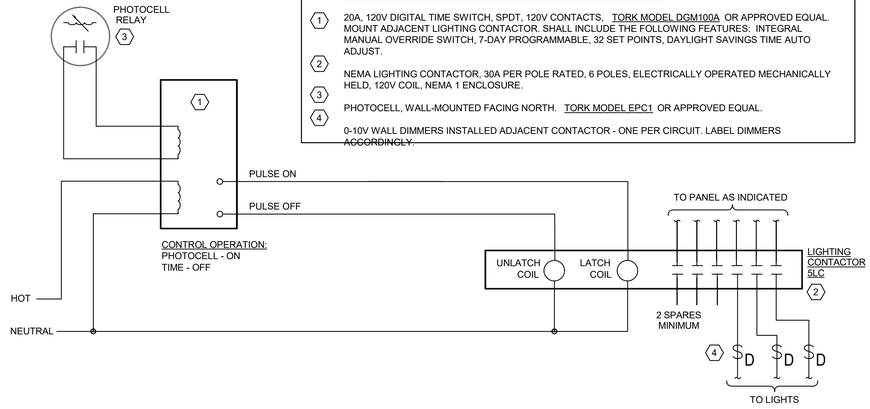
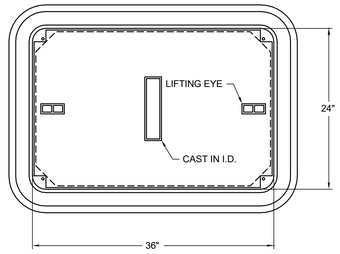
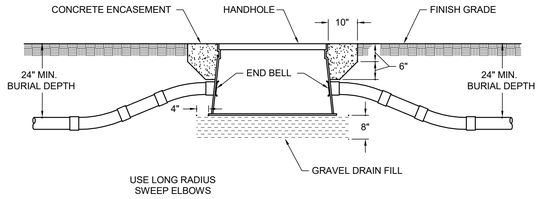


REFERENCE NOTES: (APPLICABLE TO LIGHTING CONTROL DIAGRAM)

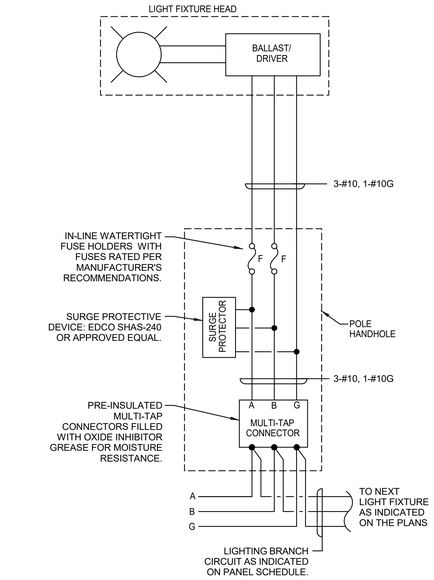
1. 20A, 120V DIGITAL TIME SWITCH, SPDT, 120V CONTACTS, TORK MODEL DGM100A OR APPROVED EQUAL. MOUNT ADJACENT LIGHTING CONTACTOR. SHALL INCLUDE THE FOLLOWING FEATURES: INTEGRAL MANUAL OVERRIDE SWITCH, 7-DAY PROGRAMMABLE, 32 SET POINTS, DAYLIGHT SAVINGS TIME AUTO ADJUST.
2. NEMA LIGHTING CONTACTOR, 30A PER POLE RATED, 6 POLES, ELECTRICALLY OPERATED MECHANICALLY HELD, 120V COIL, NEMA 1 ENCLOSURE.
3. PHOTOCELL, WALL-MOUNTED FACING NORTH. TORK MODEL EPC1 OR APPROVED EQUAL.
4. 0-10V WALL DIMMERS INSTALLED ADJACENT CONTACTOR - ONE PER CIRCUIT. LABEL DIMMERS ~~ACCORDINGLY~~.

1 LIGHTING CONTROL SCHEMATIC - EXTERIOR LIGHTING
E802 N.T.S.

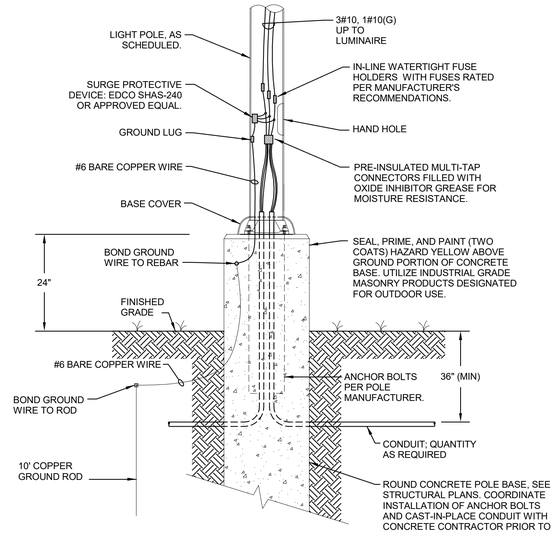




2 TYPICAL UNDERGROUND PULLBOX INSTALLATION DETAIL
E802 N.T.S.



3 POLE BASE WIRING DIAGRAM
E802 N.T.S.



LIGHT POLE FOUNDATION GENERAL NOTES:

1. POLE SHAFT SHALL MEET AASHTO LTS SPECIFICATION FOR 140mph BASIC WIND SPEED, 25 YEAR RECURRENCE INTERVAL, SUPPORTING ARMS AND LUMINAIRES AS SCHEDULED.
2. REFER TO STRUCTURAL AND CIVIL PLANS FOR ADDITIONAL CONDUIT INSTALLATION DETAILS AND INFORMATION.

4 LIGHT POLE BASE DETAIL
E802 N.T.S.

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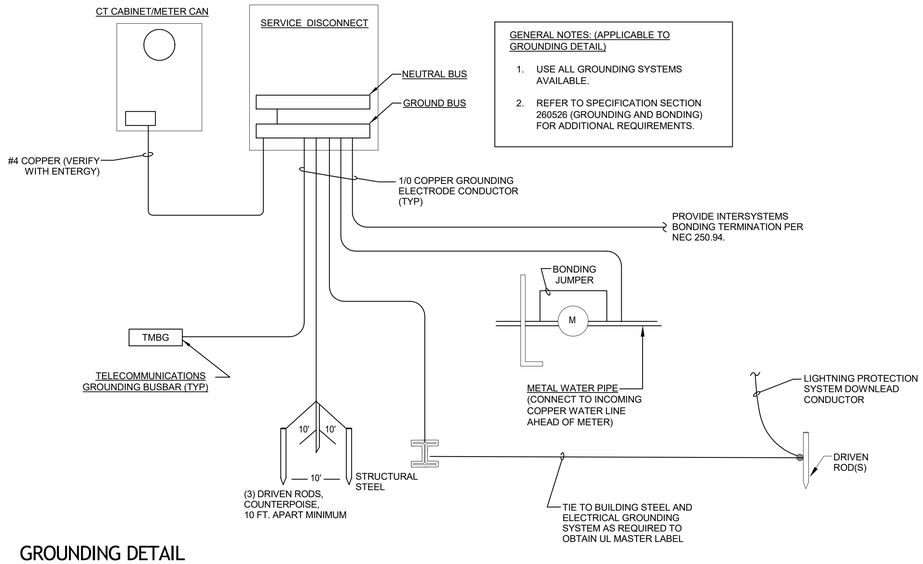
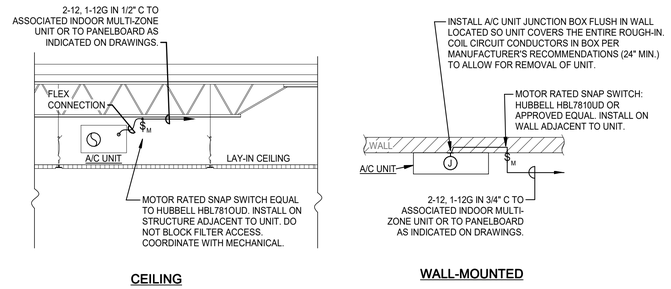


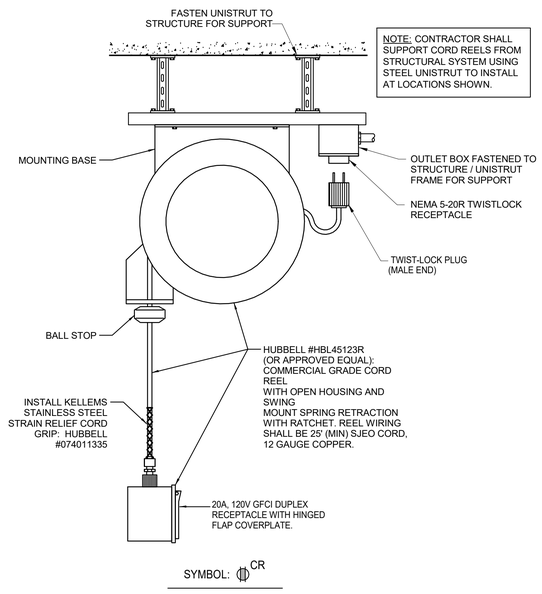
GENERAL NOTES: (APPLICABLE TO GROUNDING DETAIL)

1. USE ALL GROUNDING SYSTEMS AVAILABLE.
2. REFER TO SPECIFICATION SECTION 260526 (GROUNDING AND BONDING) FOR ADDITIONAL REQUIREMENTS.

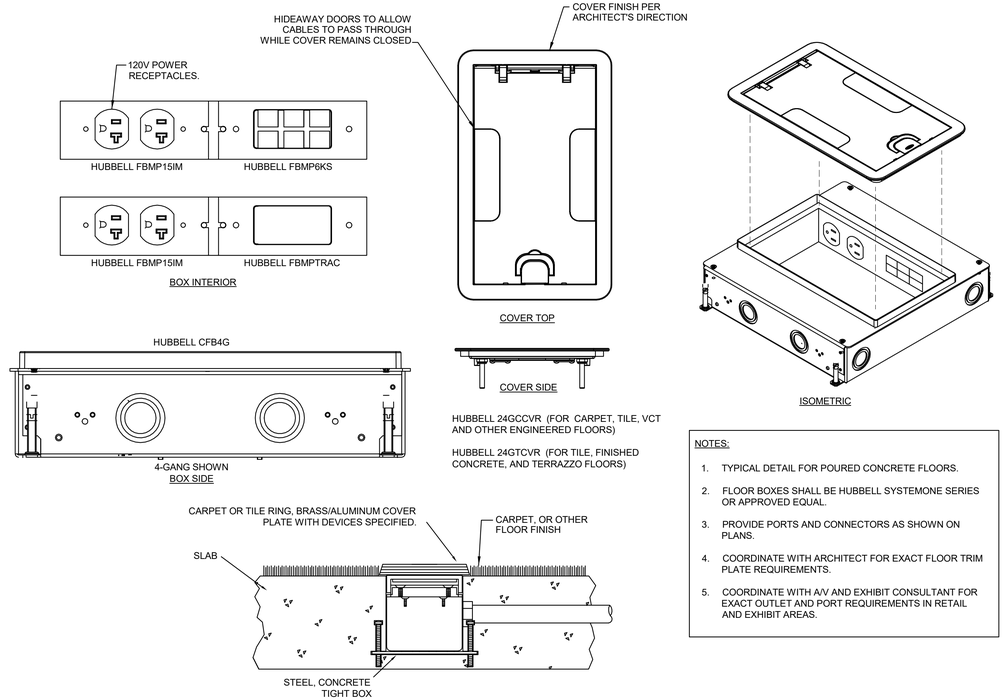
1 GROUNDING DETAIL
E803 N.T.S.



2 DUCTLESS HEAT PUMP INDOOR HVAC UNIT INSTALLATION DETAILS
E803 N.T.S.



3 RECEPTACLE CORD REEL DETAIL
E803 N.T.S.



NOTES:

1. TYPICAL DETAIL FOR POURED CONCRETE FLOORS.
2. FLOOR BOXES SHALL BE HUBBELL SYSTEMONE SERIES OR APPROVED EQUAL.
3. PROVIDE PORTS AND CONNECTORS AS SHOWN ON PLANS.
4. COORDINATE WITH ARCHITECT FOR EXACT FLOOR TRIM PLATE REQUIREMENTS.
5. COORDINATE WITH A/V AND EXHIBIT CONSULTANT FOR EXACT OUTLET AND PORT REQUIREMENTS IN RETAIL AND EXHIBIT AREAS.

4 TYPICAL FLOOR BOX CONDUIT INSTALLATION
E803 N.T.S.

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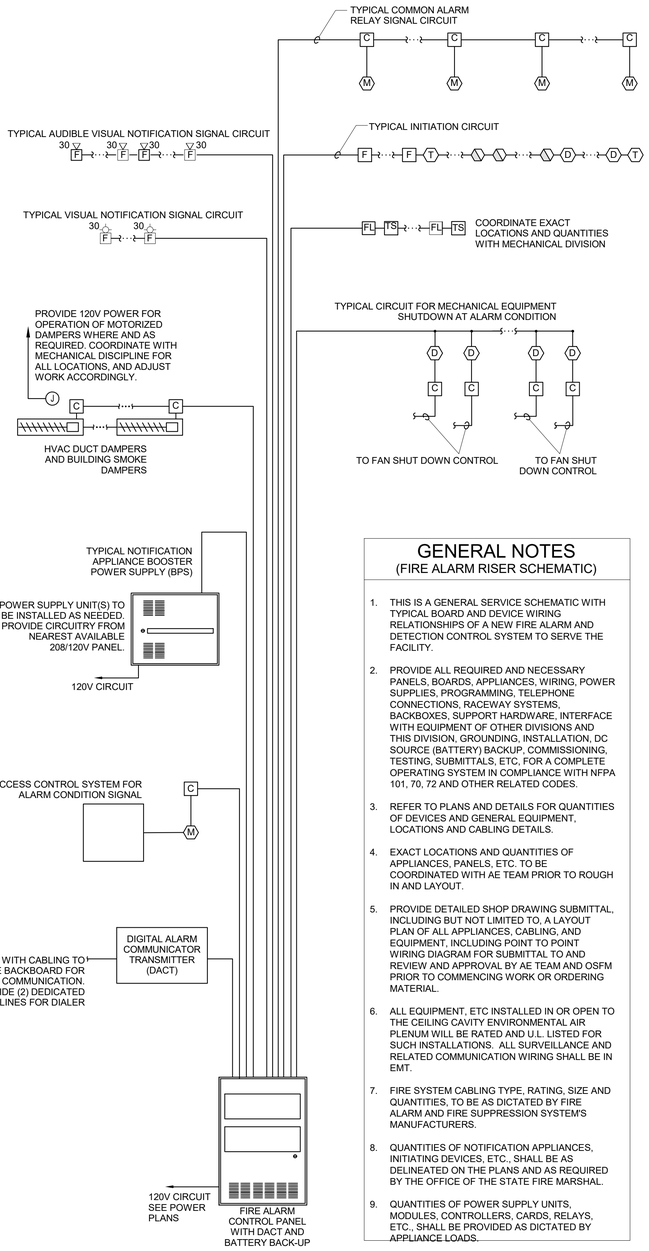
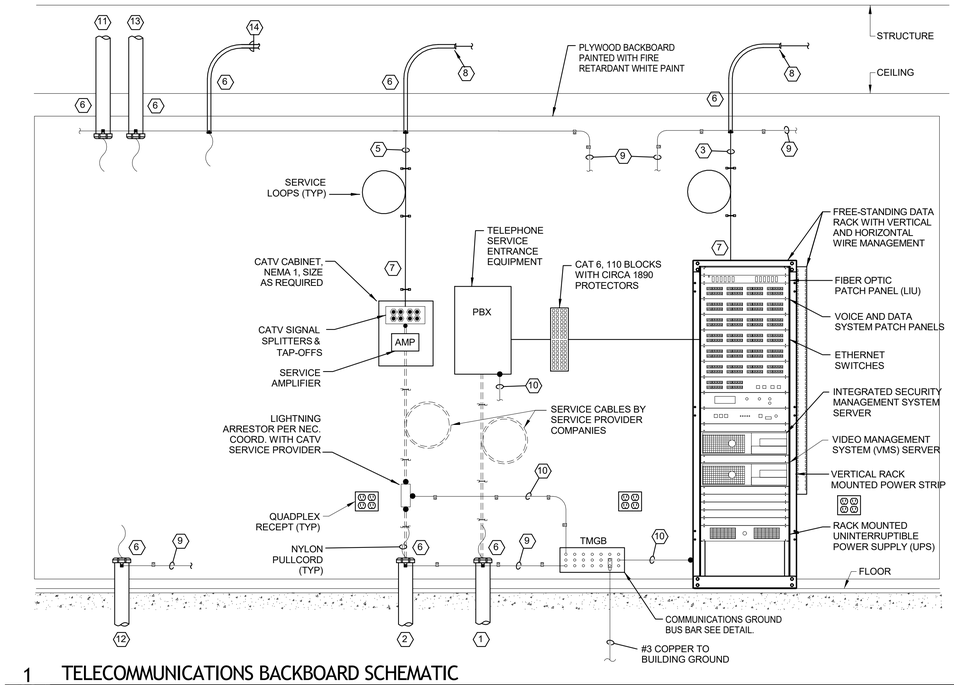


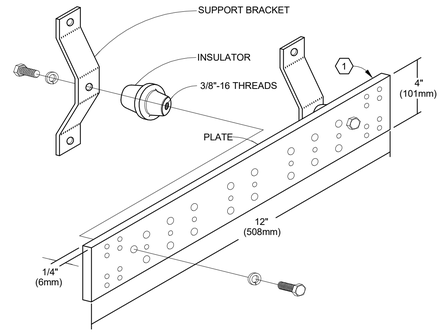
GENERAL NOTES
(FIRE ALARM RISER SCHEMATIC)

1. THIS IS A GENERAL SERVICE SCHEMATIC WITH TYPICAL BOARD AND DEVICE WIRING RELATIONSHIPS OF A NEW FIRE ALARM AND DETECTION CONTROL SYSTEM TO SERVE THE FACILITY.
2. PROVIDE ALL REQUIRED AND NECESSARY PANELS, BOARDS, APPLIANCES, WIRING, POWER SUPPLIES, PROGRAMMING, TELEPHONE CONNECTIONS, RACEWAY SYSTEMS, BACKBOXES, SUPPORT HARDWARE, INTERFACE WITH EQUIPMENT OF OTHER DIVISIONS AND THIS DIVISION, GROUNDING, INSTALLATION, DC SOURCE (BATTERY) BACKUP, COMMISSIONING, TESTING, SUBMITTALS, ETC, FOR A COMPLETE OPERATING SYSTEM IN COMPLIANCE WITH NFPA 101, 70, 72 AND OTHER RELATED CODES.
3. REFER TO PLANS AND DETAILS FOR QUANTITIES OF DEVICES AND GENERAL EQUIPMENT, LOCATIONS AND CABLING DETAILS.
4. EXACT LOCATIONS AND QUANTITIES OF APPLIANCES, PANELS, ETC. TO BE COORDINATED WITH AE TEAM PRIOR TO ROUGH IN AND LAYOUT.
5. PROVIDE DETAILED SHOP DRAWING SUBMITTAL, INCLUDING BUT NOT LIMITED TO, A LAYOUT PLAN OF ALL APPLIANCES, CABLING, AND EQUIPMENT, INCLUDING POINT TO POINT WIRING DIAGRAM FOR SUBMITTAL TO AND REVIEW AND APPROVAL BY AE TEAM AND OSFM PRIOR TO COMMENCING WORK OR ORDERING MATERIAL.
6. ALL EQUIPMENT, ETC INSTALLED IN OR OPEN TO THE CEILING CAVITY ENVIRONMENTAL AIR PLENUM WILL BE RATED AND U.L. LISTED FOR SUCH INSTALLATIONS. ALL SURVEILLANCE AND RELATED COMMUNICATION WIRING SHALL BE IN EMT.
7. FIRE SYSTEM CABLING TYPE, RATING, SIZE AND QUANTITIES, TO BE AS DICTATED BY FIRE ALARM AND FIRE SUPPRESSION SYSTEM'S MANUFACTURERS.
8. QUANTITIES OF NOTIFICATION APPLIANCES, INITIATING DEVICES, ETC., SHALL BE AS DELINEATED ON THE PLANS AND AS REQUIRED BY THE OFFICE OF THE STATE FIRE MARSHAL.
9. QUANTITIES OF POWER SUPPLY UNITS, MODULES, CONTROLLERS, CARDS, RELAYS, ETC., SHALL BE PROVIDED AS DICTATED BY APPLIANCE LOADS.

3 FIRE ALARM RISER SCHEMATIC
E804 N.T.S.



1 TELECOMMUNICATIONS BACKBOARD SCHEMATIC
E804 N.T.S.



2 TELECOMM MAIN GROUND BUSBAR (TMGB) DETAIL
E804 N.T.S.

GENERAL NOTES
(TELECOMMUNICATIONS BACKBOARD SCHEMATIC)

A. THIS BACKBOARD ELEVATION DETAIL IS GENERIC IN NATURE AND REFLECTS POSSIBLE SYSTEM FIELD ARRANGEMENTS. COORDINATE WITH OWNER'S IT TECHNICHIAN(S) PRIOR TO COMMENCING WORK. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B. BACKBOARD ELEVATION DETAIL MAY NOT SHOW ALL REQUIRED EQUIPMENT. REFER TO OTHER PLANS HEREIN AND THE SPECIFICATIONS FOR ADDITIONAL WORK.

REFERENCE NOTES
(TELECOMM BACKBOARD SCHEMATIC)

1. INCOMING CONDUIT(S) WITH PULLCORD FOR TELEPHONE SERVICE; SEE COMM RISER DIAGRAM AND SITE PLAN.
2. INCOMING CONDUIT(S) WITH PULLCORD FOR CATV SERVICE; SEE COMM RISER DIAGRAM AND SITE PLAN.
3. TYPICAL CAT 6 VOICE AND DATA STATION CABLES TO WORKSTATION JACKS.
4. NOT USED.
5. TYPICAL RG-6 COAXIAL CABLE TO TV OUTLET.
6. STUB CONDUITS 6" ABV. FINISH FLOOR & 12" BELOW CEILING AT COMMUNICATIONS BOARD AS INDICATED. PROVIDE GROUNDING BUSHINGS WITH SEALING FITTINGS ON ALL RACEWAYS. ROUTE RACEWAYS INTO SPACE WITH SWEEPING BENDS IN DIRECTION OF CABLE PULL TO REDUCE PULLING TENSIONS.
7. LABEL CABLES INCOMING TO THE COMMUNICATIONS BOARD WITH THEIR T.O. IDENTIFIER, UTILIZE TIE ON CABLE LABELS OR SELF-LAMINATING WRAP-AROUND LABELS; TYPEWRITTEN OR MACHINE PRINTED; POSITIONED NO MORE THAN 12 INCHES FROM THE CONNECTOR END, NEATLY ALIGNED, AND PARALLEL TO THE CABLE.
8. STUB CONDUIT 18" ABV. LAY-IN CEILING. TERMINATE IN NYLON BUSHING OR INSULATED THROAT.
9. BOND ALL INCOMING RACEWAY GROUND BUSHINGS TO TMGB WITH #6 COPPER WIRE.
10. #6 COPPER ENCLOSURE GROUND WIRE TO NEAREST TMGB OR TBG.
11. RACEWAY(S) TO ROOF FOR FUTURE RADIO SYSTEM. SEE COMMUNICATIONS RISER DIAGRAM.
12. SPARE TELECOMM CONDUITS FROM OUTSIDE BUILDING, SEE ELECTRICAL SITE PLAN.
13. CONDUIT RUN TO ROOF FOR FUTURE SATV SATELLITE SERVICE. SEE COMMUNICATIONS RISER DIAGRAM.
14. TYPICAL 3/4" EMT WITH PULLCORD RUNNING TO TYPE 'R' COMMUNICATIONS OUTLETS FOR FUTURE RADIO SYSTEM CABLES.

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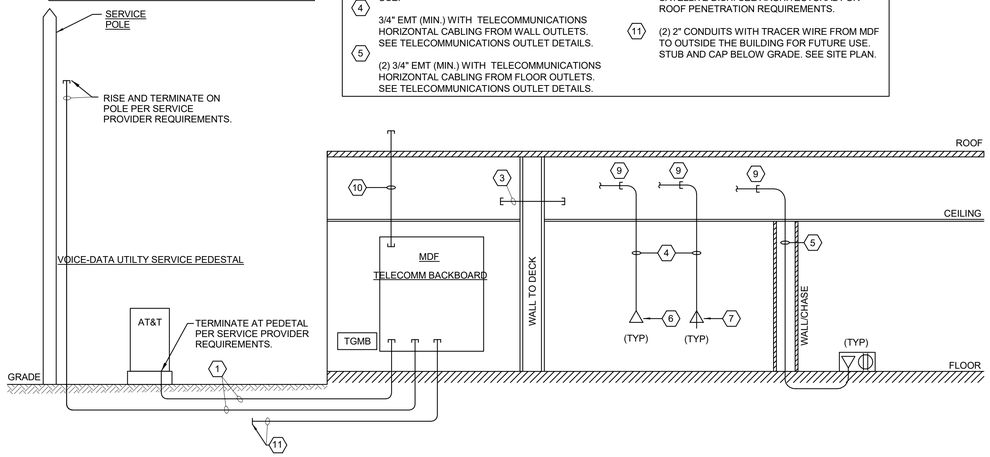
GENERAL NOTES
(COMMUNICATIONS RISER DIAGRAM)

1. CONDUIT RUNS SHALL NOT EXCEED 295 FEET FROM OUTLET BOX TO BACKBOARD.
2. UTILIZE SWEEPING GRC BENDS ON 90'S OF VOICE-DATA AND CATV SERVICE RACEWAYS.
3. COORDINATE VOICE-DATA AND CATV SERVICE RACEWAY TERMINATION LOCATIONS AND INSTALLATION REQUIREMENTS WITH SERVICE PROVIDERS PRIOR TO ROUGH-IN.
2. COORDINATE WITH VOICE-DATA AND CATV SERVICE PROVIDERS THRU OWNER FOR INSTALLATION OF SERVICE CABLES.

REFERENCE NOTES
(COMMUNICATIONS RISER DIAGRAM)

1. (1) 2" CONDUIT FOR CATV SERVICE. RUN CONDUITS 48" (MIN.) BELOW GRADE FROM FROM MDF TO TELCOMMUNICATIONS UTILITY POLE.
2. (1) 4" CONDUIT FOR VOICE-DATA FIBER SERVICE. RUN CONDUITS 48" (MIN.) BELOW GRADE FROM FROM MDF TO TELCOMMUNICATIONS UTILITY PEDESTAL.
3. 4" SLEEVES THROUGH WALLS AS REQUIRED TO ALLOW PASSAGE OF CABLES THROUGH WALLS THAT GO UP TO CEILING DECK. INSTALL (2) TWO ADDITIONAL 4" SPARE SLEEVES FOR FUTURE USE.
4. 3/4" EMT (MIN.) WITH TELECOMMUNICATIONS HORIZONTAL CABLING FROM WALL OUTLETS. SEE TELECOMMUNICATIONS OUTLET DETAILS.
5. (2) 3/4" EMT (MIN.) WITH TELECOMMUNICATIONS HORIZONTAL CABLING FROM FLOOR OUTLETS. SEE TELECOMMUNICATIONS OUTLET DETAILS.
6. TYPICAL COMMUNICATIONS OUTLET. SEE TELECOMM. OUTLET DETAIL.
7. TYPICAL TV OUTLET. SEE TELECOMM. OUTLET DETAIL.
8. TYPICAL FLOOR POWER / COMMUNICATIONS COMBO OUTLET.
9. RUN CONDUIT TO NEAREST ACCESSIBLE CEILING AND TERMINATE IN NYLON BUSHINGS OR INSULATED THROAT.
10. (2) 2" CONDUITS TO ROOF FOR FUTURE SATELLITE DISH. SEE ARCHITECTURAL FOR ROOF PENETRATION REQUIREMENTS.
11. (2) 2" CONDUITS WITH TRACER WIRE FROM MDF TO OUTSIDE THE BUILDING FOR FUTURE USE. STUB AND CAP BELOW GRADE. SEE SITE PLAN.



1 TELECOMMUNICATIONS RISER DIAGRAM
E805 N.T.S.

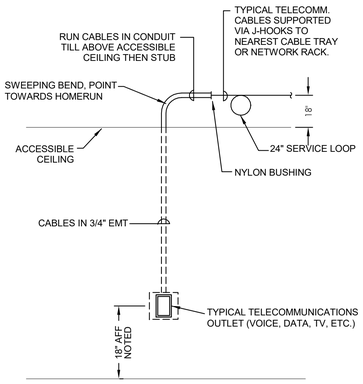
COMMUNICATIONS OUTLET (CO) NOMENCLATURE*

PPA - 105 - A
- PPA: SOURCE PATCH PANEL IDENTIFIER
- 105: OUTLET ROOM NUMBER
- A: OUTLET IDENTIFIER (ROOMS WITH TWO OR MORE OUTLETS ONLY)

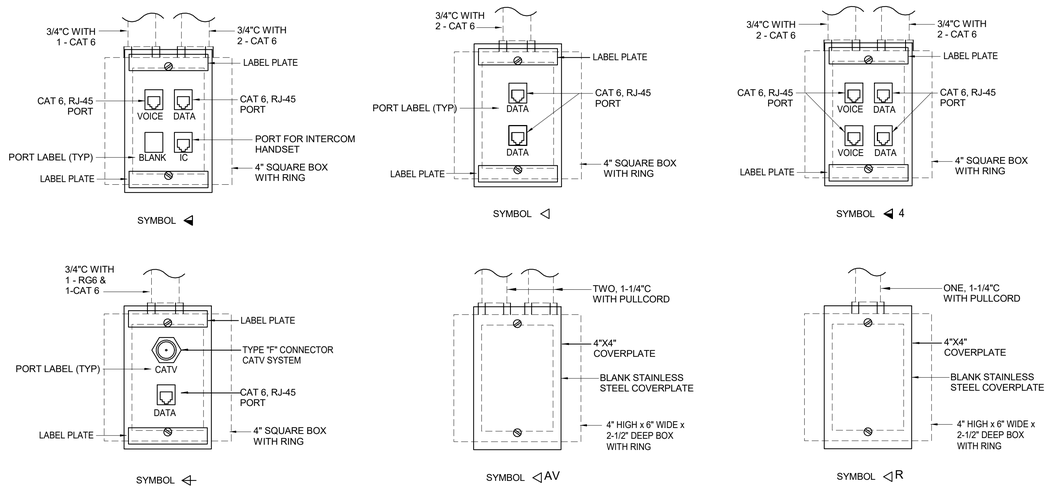
EXAMPLE

PPA-105-A INDICATES OUTLET "A" LOCATED IN ROOM 105 AND SERVED BY PATCH PANEL PPA

*COORDINATE WITH OWNER'S IT TECHNICHIAN(S) PRIOR TO COMMENCING WORK FOR EXACT LABELING NOMENCLATURE REQUIREMENTS.



2 TELECOMMUNICATIONS OUTLET INSTALLATION DETAIL
E805 N.T.S.



3 TELECOMMUNICATIONS OUTLET DETAIL
E805 N.T.S.

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Revisions

No.	Description	Date

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ELECTRICAL DETAILS

seal: STATE OF LOUISIANA — JEFFERY LAMBERT — License No. 37172 — PROFESSIONAL ENGINEER

project number	drawing number
21238.00	E805
date: OCTOBER 15, 2018	
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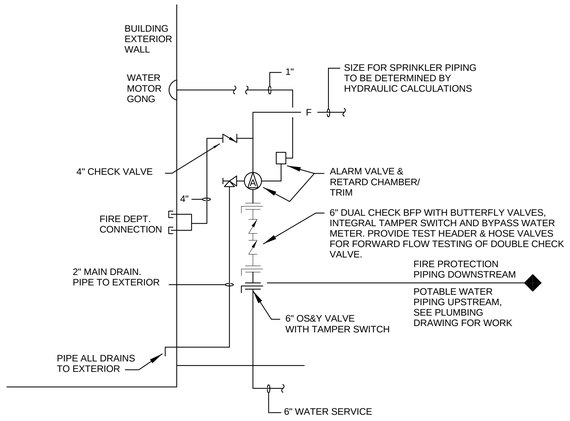
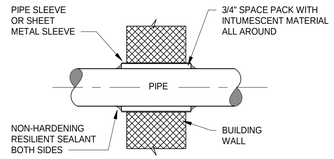


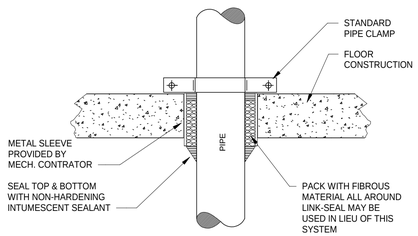
NOTE:

1. DUAL CHECK BFP TO BE PROVIDED BY THE SPRINKLER CONTRACTOR AND INSTALLED/CERTIFIED BY THE PLUMBING CONTRACTOR

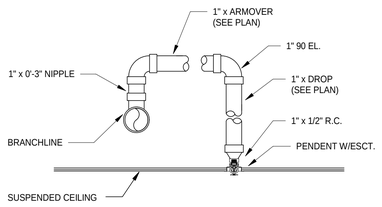
1 SPRINKLER SERVICE ENTRANCE DETAIL
F001 N.T.S.



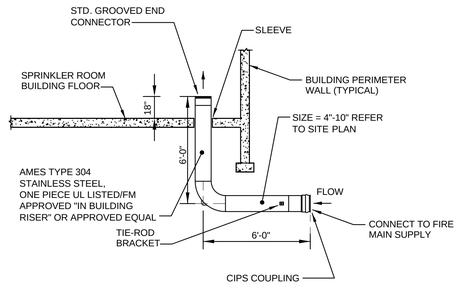
2 TYPICAL PIPE PENETRATION AT FIRE PARTITION
F001 N.T.S.



3 TYPICAL PIPE PENETRATION AT FLOOR DETAIL
F001 N.T.S.



4 RETURN BEND DETAIL
F001 N.T.S.



5 FIRE LINE ENTRY DETAIL
F001 N.T.S.

GENERAL FIRE PROTECTION NOTES

A. PROVIDE A 100% DESIGNED BUILD, FIRE SPRINKLER SYSTEM THROUGOUT. SYSTEM SHALL BE INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR. THE COMPLETE FIRE SUPPRESSION SYSTEM INCLUDES MULTIPLE ZONES AS WET AND "TRIMPAC" PRE-ACTION. CONTRACTOR SHALL PROVIDE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH 2010 IBC STANDARD 9-1, 2010 NFPA 13 AND 14. ALL LOCAL CODES AND INSURANCE UNDERWRITERS REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACE TO FIRE ALARM SYSTEM, FIRE SPRINKLER HEADS PRESSURE TESTING, SEISMIC SUPPORT, ETC. CONTRACTOR SHALL SUBMIT STAMPED "APPROVED" PLANS FOR REVIEW PRIOR TO INSTALLATION OR FABRICATION.

B. AUTOMATIC SPRINKLERS DENSITIES FOR VARIOUS STORAGE AREAS SHALL BE AS DIRECTED BY THE INSURANCE AGENCY AND NFPA 13. U.N.O., DESIGNED TO PROVIDE 0.20 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ. FT. USING QUICK RESPONSE, 165F RATED, 1/2 OR 17/32 IN ORIFICE HEADS WITH 130 SQ.FT. MAXIMUM SPACING.

C. WET SPRINKLER SYSTEM: BUILDING IS ORDINARY HAZARD GROUP 1 OCCUPANCY: DENSITY 0.15 GPM/SQ. FT, OVER MOST HYDRAULICALLY REMOTE 1500 SQUARE FEET. MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQ. FT.

D. ADDITIONAL SPRINKLER HEADS SHALL BE INSTALLED UNDER ANY HVAC DUCT MORE THAN 4'-0" WIDE.

E. COORDINATE LOCATIONS OF ALL SPRINKLER HEADS WITH REFLECTED CEILING PLAN COMPONENTS SUCH AS ELECTRICAL LIGHTING, DIFFUSERS, SMOKE DETECTORS, ETC. PRIOR TO FABRICATION, SUBMIT LAYOUT DRAWINGS FOR ACCEPTANCE. COORDINATE LOCATIONS OF ALL SPRINKLER MAINS, BRANCH PIPING, WITH ALL OTHER TRADES TO AVOID LIGHTS, DUCTS, ETC.

F. THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE CITY OF NEW ORLEANS, LA FOR ALL PERMITS AND APPROVALS.

G. THE SPACING AND DETAILS OF THE SUPPORT AND BRACING OF THE FIRE SPRINKLER PIPING SHALL COMPLY WITH THE 2007 EDITION OF NFPA 13. PROVIDE ANCHORAGE DETAILS AND CALCULATIONS FOR THE CONNECTION OF SWAY BRACING TO THE STRUCTURE. DESIGN LOADS FOR THE ANCHORAGE MAY BE COMPUTED PER NFPA 13, 2010 EDITION. BC 2010. ALL SHOP DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL, PRIOR TO INSTALLATION.

H. PENETRATIONS OF RATED ASSEMBLIES SHALL BE AN APPROVED MATERIAL. INSTALLATION SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE ENFORCING AGENCY.

I. SPRINKLER HEAD TOLERANCE IN CEILING TILES IS +1" FROM CENTER OF TILE.

J MINIMUM PRESSURE AT SPRINKLER HEAD 15 PSI.

K. A 500 GPM OUTSIDE HOSE ALLOWANCE SHALL BE ADDED AT THE CONNECTION OF THE FIRE SERVICE TO THE CITY WATER MAIN.

L. ROLL GROOVED CONNECTIONS ARE NOT PERMITTED FOR PRE-ACTION SYSTEMS. ROLL GROOVED CONNECTIONS ARE USED FOR WET SYSTEMS ONLY, ALLOWANCE FOR ADDITIONAL PRESSURE LOSS AT GROOVES SHALL BE MADE AS FOLLOWS:

A. FOR EACH COUPLING ON STRAIGHT RUN INCLUDING STRAIGHT FLOW THROUGH TEE OR CROSS: ADD 1 EQUIVALENT FOOT OF PIPE.

B. FOR EACH COUPLING AT ELBOW, TEE OR CROSS WHERE DIRECTION OF FLOW CHANGES: ADD 2 EQUIVALENT FEET OF PIPE.

M. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13.

A. SCHEDULE 10 AND/OR LIGHTWALL PIPE ARE NOT PERMITTED.

N. DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA STANDARD NO. 13.

O. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY.

P. RESULT OF HYDRAULIC CALCULATIONS SHALL INDICATE MINIMUM 10% PRESSURE SAFETY MARGIN. I.E. EXCESS OF PRESSURE AVAILABLE OVER PRESSURE REQUIRED.

Q. THE CONTRACTOR IS RESPONSIBLE FOR UTILIZING LATEST INDUSTRY KNOWN MIC PREVENTION PRACTICES. THE PRACTICE, AS A MINIMUM, SHALL PROVIDE BUT NOT TO BE LIMITED TO: SCHEDULE 40 BLACK STEEL PIPING MIC TREATED AND THREADED AND GROOVED CONNECTIONS; AIR COMPRESSOR; ETC.

R. ALL FIRE ALARM DEVICES SHALL BE AS INDICATED ON THE ELECTRICAL DRAWINGS AND HEREWITH SPECIFIED IN THE SEQUENCE OF OPERATIONS.

S. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COMPLETE COORDINATION WITH ALL OTHER TRADES. THE SYSTEMS SHALL BE INSTALLED IN COMPLIANCE WITH ALL GOVERNING CODES AND REGULATIONS AND THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

T. ALL SPRINKLER HEADS IN THE ADMINISTRATION PORTION OF THE BUILDING SHALL BE QUICK RESPONSE TYPE AS REQUIRED BY NFPA-13.

FIRE PROTECTION ABBREVIATIONS

AD	-	AREA DRAIN
AFF	-	ABOVE FINISHED FLOOR
AP	-	ACCESS PANEL
ARCH	-	ARCHITECTURAL
AS	-	AUTOMATIC FIRE SPRINKLER
BFF	-	BELOW FINISHED FLOOR
BHP	-	BRAKE HORSEPOWER
BSMT	-	BASEMENT
BV	-	BALANCING VALVE
CA	-	COMPRESSED AIR
CFF	-	CAPPED FOR FUTURE
C.G.	-	CENTER OF GRAVITY
CHV	-	CHECK VALVE
CNTR. LN.	-	CENTER LINE
CONC. EQUP.	-	CONCRETE EQUIPMENT
CONN	-	CONNECTION
CONT	-	CONTINUATION
CP	-	CONTROL PANEL
CSP	-	COMBINATION STANDPIPE
CTE	-	CONNECT TO EXISTING
CU. FT	-	CUBIC FEET
CU IN	-	CUBIC INCHES
CW	-	COLD WATER
DIA	-	DIAMETER
DR	-	DRAIN
(E)	-	EXISTING
EL	-	ELEVATION
F	-	FIRE MAIN
FCV	-	FLOW CONTROL VALVE
FD	-	FLOOR DRAIN
FDC	-	FIRE DEPARTMENT CONNECTION
FHC	-	FIRE HOSE CABINET
FHV	-	FIRE HOSE VALVE
FIN. FLR.	-	FINISHED FLOOR
FS	-	FLOW SWITCH
FT	-	FEET
GAL	-	GALLONS
GPM	-	GALLONS PER MINUTE
GRVT.	-	GRAVITY
GV	-	GATE VALVE
HP or hp	-	HORSEPOWER
HV	-	HOSE VALVE
IN	-	INCHES
KW or Kw	-	KILOWATTS
LB or lb	-	POUND
MAX	-	MAXINUM
MIN	-	MINIMUM
(N)	-	NEW
NC	-	NORMALLY CLOSED
NO	-	NORMALLY OPENED
OS&Y	-	OUTSIDE STEM AND YOKE
PA	-	PRE-ACTION AUTOMATIC FIRE SPRINKLER PIPING
PG	-	PRESSURE GAUGE
POC	-	POINT OF CONNECTION
PRV	-	PRESSURE REDUCING VALVE ASSEMBLY
PSI	-	POUNDS PER SQUARE INCH
PTH	-	PUMP TEST HEADER
R	-	RELOCATE OR RELOCATED
RPBP	-	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	-	REVOLUTIONS PER MINUTE
S	-	SOIL
SOV	-	SHUT-OFF VALVE IN RISER
SP	-	STANDPIPE
SPD	-	SPRINKLER DRAIN
SPR	-	SPRINKLER
SQ. FT.	-	SQUARE FEET
TS	-	TAMPER SWITCH
TYP	-	TYPICAL
V.I.F.	-	VERIFY IN FIELD
WT	-	WEIGHT

FIRE PROTECTION SYMBOLS

THIS IS A TYPICAL SCHEDULE. NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.

	FLOW SWITCH
	FIRE HOSE CONNECTION
	TEST AND DRAIN VALVE
	SUPERVISED INDICATING BUTTERFLY VALVE
	OS & Y VALVE
	SUPERVISED OS & Y VALVE
	POST INDICATING VALVE
	DRY PIPE VALVE
	ALARM CHECK VALVE
RM	ROOF MANIFOLD
	FIRE HOSE ANGLE VALVE
	SOLENOID VALVE
	SUPERVISED BALL VALVE
LH	LIGHT HAZARD
LH,US	LIGHT HAZARD, UNFINISHED SPACE
OH-1	ORDINARY HAZARD, GROUP 1
OH-2	ORDINARY HAZARD, GROUP 2
	TEE OFF BOTTOM
	TEE OFF TOP
D	DRAIN
	CONCEALED SPRINKLER
	UPRIGHT SPRINKLER
	CONCENTRIC PIPE REDUCER
	ECCENTRIC PIPE REDUCER
	SLEEVE OR CORE THRU WALL
	2-WAY ROOF MANIFOLD
F	FIRE PROTECTION PIPING
	SPRINKLER WITH GUARD
FHC	FIRE HOSE CONNECTION
	FIRE HOSE VALVE CABINET
FDP	DRY-PIPE FIRE PROTECTION PIPING
FDC	FIRE DEPARTMENT CONNECTION
	GATE VALVE
	GLOBE VALVE
	STRAINER
	CHECK VALVE
	BALL VALVE
	COMPANION FLANGES
	FLEXIBLE PIPE CONNECTION
	PIPE ELBOW TURNED DOWN
	PIPE ELBOW TURNED UP
	PRESSURE GAUGE WITH COCK
	SIDEWALL SPRINKLER
	EXISTING CONCEALED SPRINKLER
XXX YYY	DEMARCATION FOR DISCIPLINES

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Revisions

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FIRE PROTECTION GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND DETAILS

seal: STATE OF LOUISIANA — CHRISTOPHER DAVID CHAUVIN — REG. NO. 38045 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEER

project number	21238.00
date	OCTOBER 15, 2018
phase	BID DOCUMENTS
drawing number	F001

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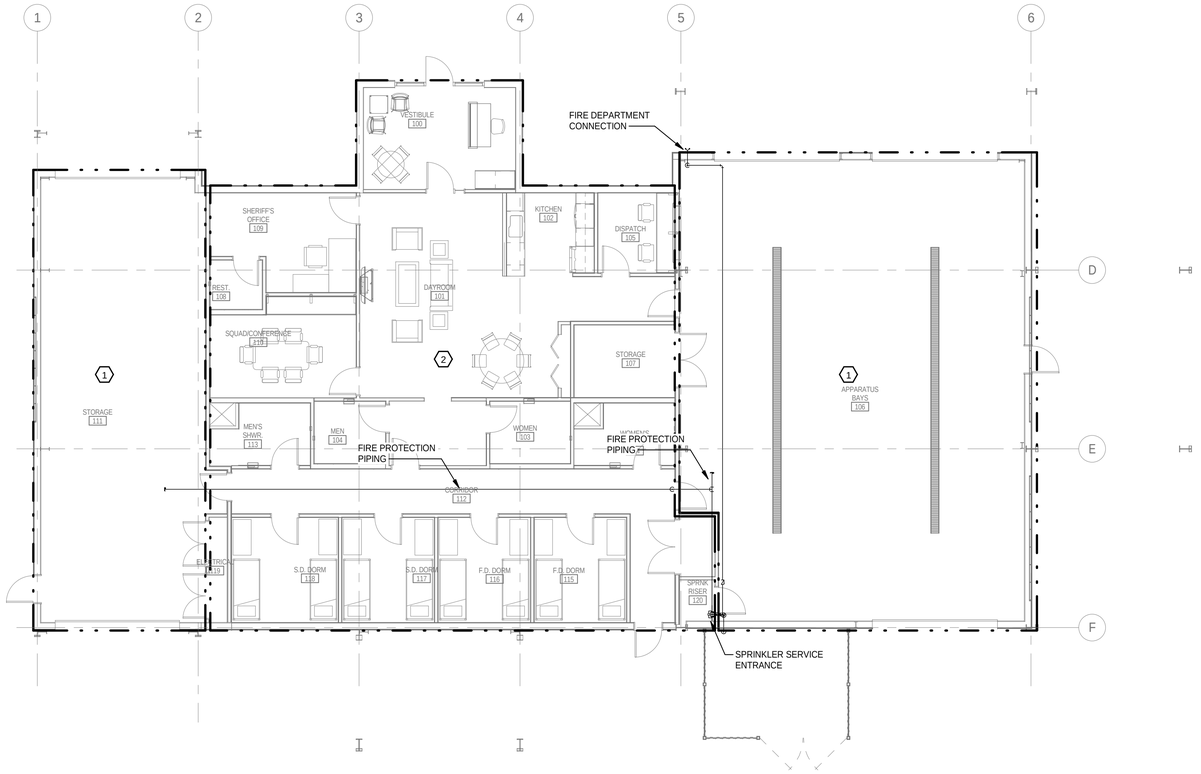

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F201

FIRE PROTECTION PLAN

1/8" = 1'-0"

SHEET GENERAL NOTES

SHEET REFERENCE NOTES

1 SPACES IN THIS ARE ARE ORDINARY HAZARD GROUP 1. VERIFY HAZARD CLASSIFICATION IN SPRINKLER DESIGN.

2 THIS AREA SHALL BE LIGHT HAZARD OCCUPANCY. VERIFY HAZARD CLASSIFICATION IN SPRINKLER DESIGN.

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FIRE PROTECTION PLAN

seal

STATE OF LOUISIANA
CHRISTOPHER DAVID CHAUVIN
REG. NO. 38045
REGISTERED
PROFESSIONAL ENGINEER
MECHANICAL ENGINEER

project number 21238.00

date OCTOBER 15, 2018

phase BID DOCUMENTS

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