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WESTBANK PUBLIC SAFETY COMPLEX

5739 HIGHWAY 18
EDGARD, LA 70049



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Revisions		
No.	Description	Date
1		

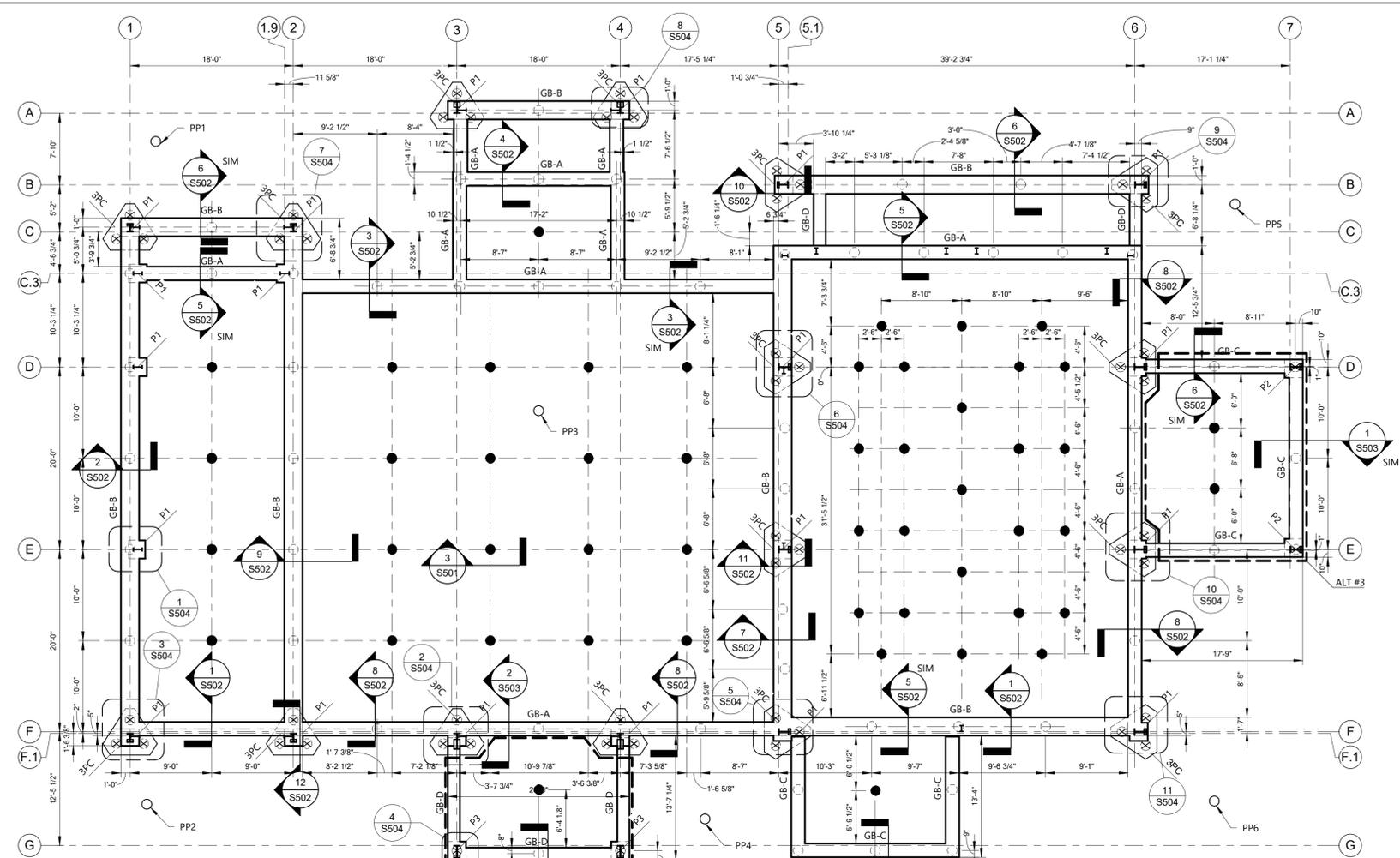
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VOLUME 2 OF 2
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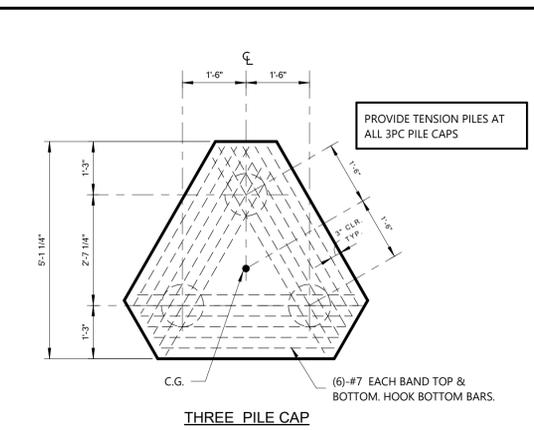
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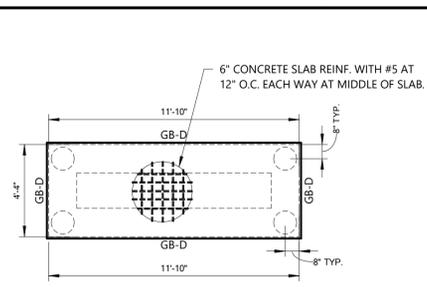
1 FOUNDATION PLAN
S101 1/8" = 1'-0"

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

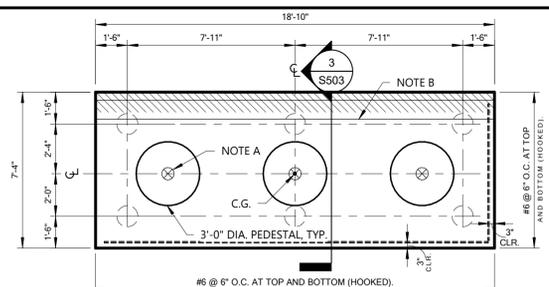
PEDESTAL SCHEDULE				
Mark	Length	Width	Thickness	Reinforcement
P1	2'-0"	2'-0"	2'-0"	(8)-#6 VERTICAL BARS AND #4 TIES AT 6" O.C. (2 AT TOP OF PEDESTAL)
P2	2'-0"	2'-0"	1'-9"	(8)-#6 VERTICAL BARS AND #4 TIES AT 6" O.C. (2 AT TOP OF PEDESTAL)
P3	2'-0"	2'-0"	1'-7"	(8)-#6 VERTICAL BARS AND #4 TIES AT 6" O.C.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



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



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



4 Sign And Flagpole Foundation Plan
S101 1/4" = 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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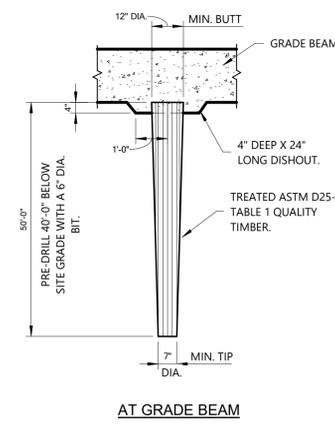
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2 Timber Pile Elevations
S101 3/8" = 1'-0"

TIMBER PILE NOTES:

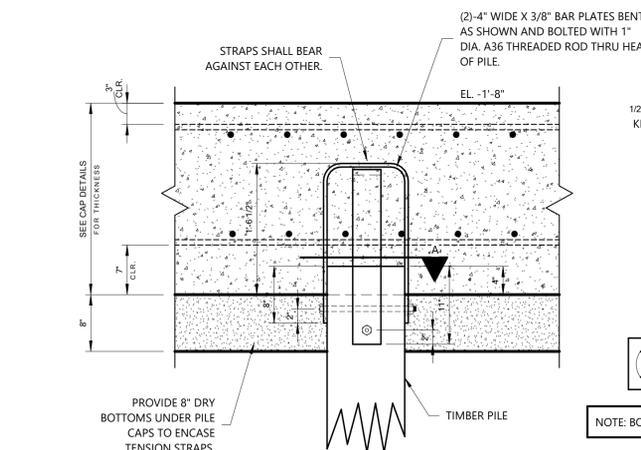
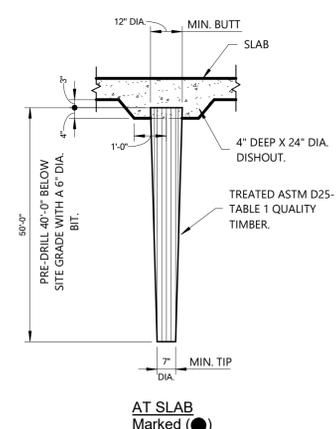
TIMBER PILES SHALL BE TREATED WITH A PRESURE PRESERVATION TREATMENT IN ACCORDANCE WITH AWPA STANDARD C3 FOR FOUNDATION PILES. TREAT FIELD CUTS PER AWPA.

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

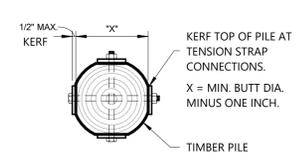
PILE DESIGN LOAD (AT SLAB AND GRADE BEAM) = 21 TONS (FS=2.0)

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.



3 Pile Tension Strap Detail With Plates
S101 1" = 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

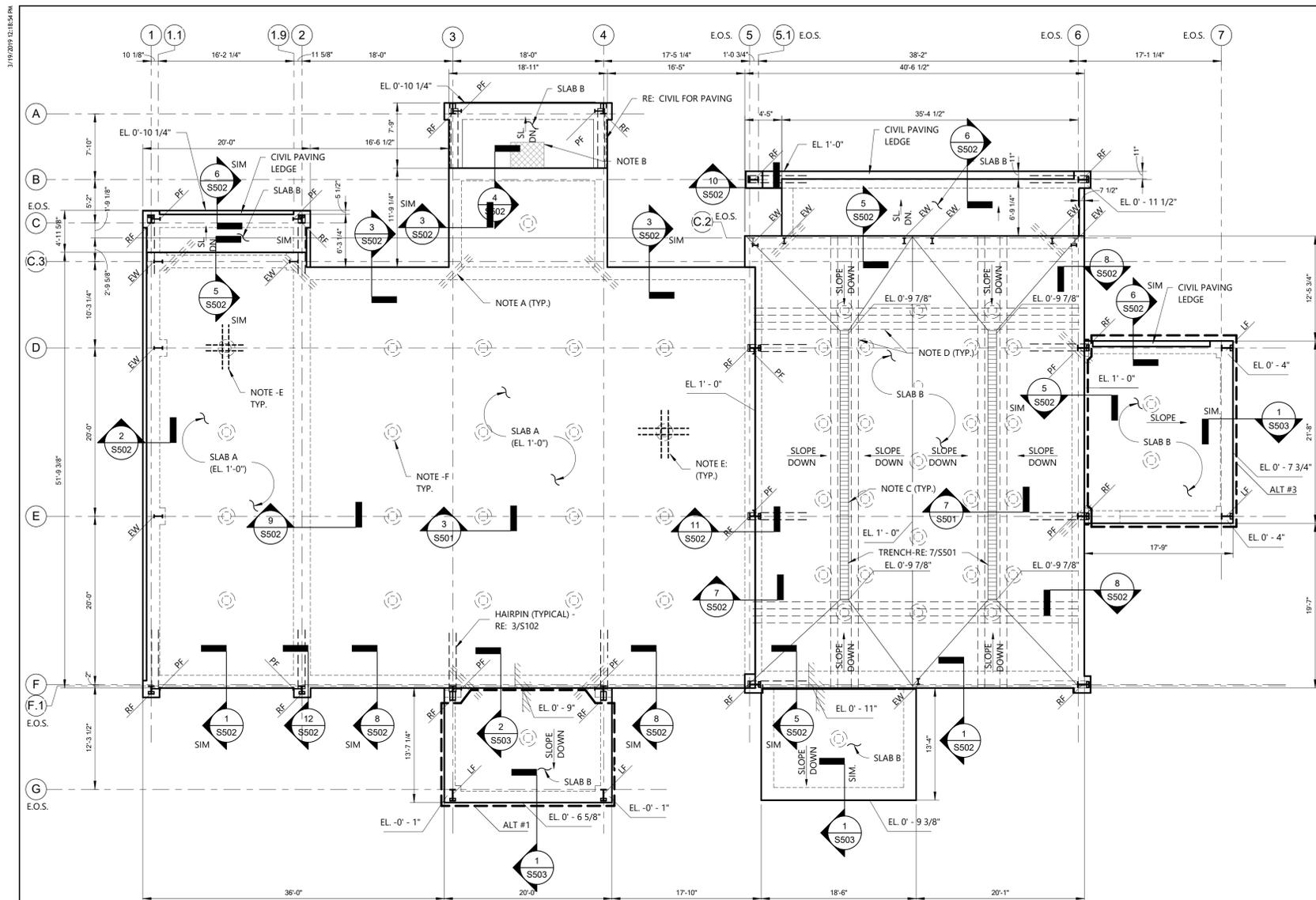
Revisions		
No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX

5739 HIGHWAY 18
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FOUNDATION PLAN

project number	21238.00	drawing number	S101
date	03-19-2019	phase	
phase	BID DOCUMENTS		



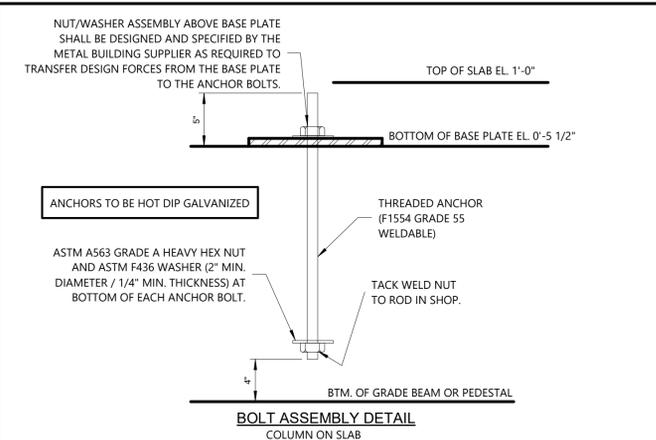
1 Slab Plan
1/8" = 1'-0"

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.

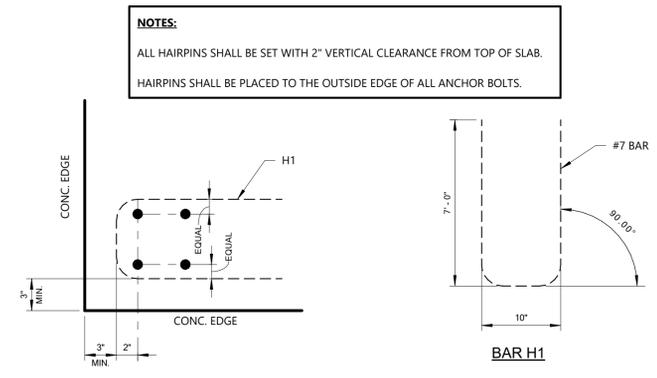
METAL BUILDING COLUMN SCHEDULE

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	

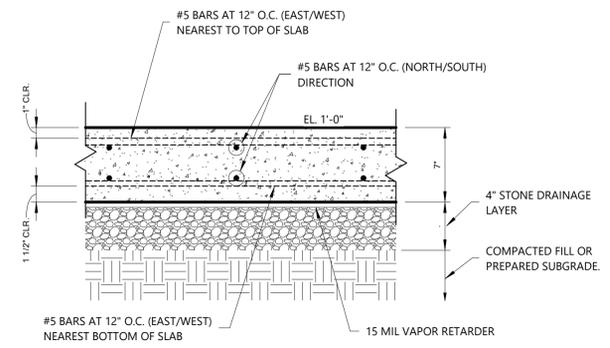
NOTES:
1. PROVIDE PORTAL FRAME COLUMNS NESTED WITHIN THE RIGID FRAME COLUMN. BOLT FLANGE OF PORTAL FRAME COLUMN TO WEB OF RIGID FRAME COLUMN. PORTAL FRAME COLUMNS SHALL HAVE A MAX. DEPTH OF 14 INCHES. PORTAL FRAME COLUMNS AND BEAMS SHALL HAVE A MAXIMUM WIDTH OF 10 INCHES. PORTAL FRAMES SHALL NOT BEAR 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 5-601 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.



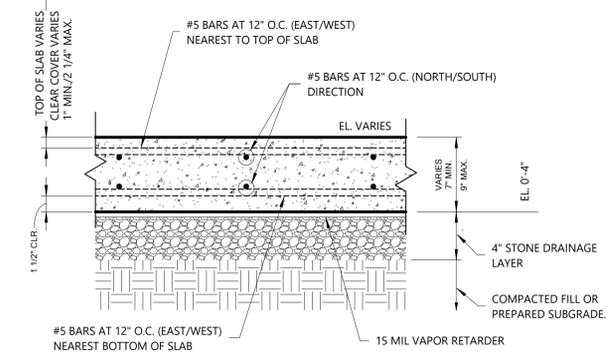
2 Metal Bldg. Anchor Bolt Assembly
S102 1 1/2" = 1'-0"



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



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



5 Slab B Section
S102 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 IN TOP MAT REINFORCING.

NOTE F:
PROVIDE 24" DIA. DISHOUT AROUND AT SLAB PILES.

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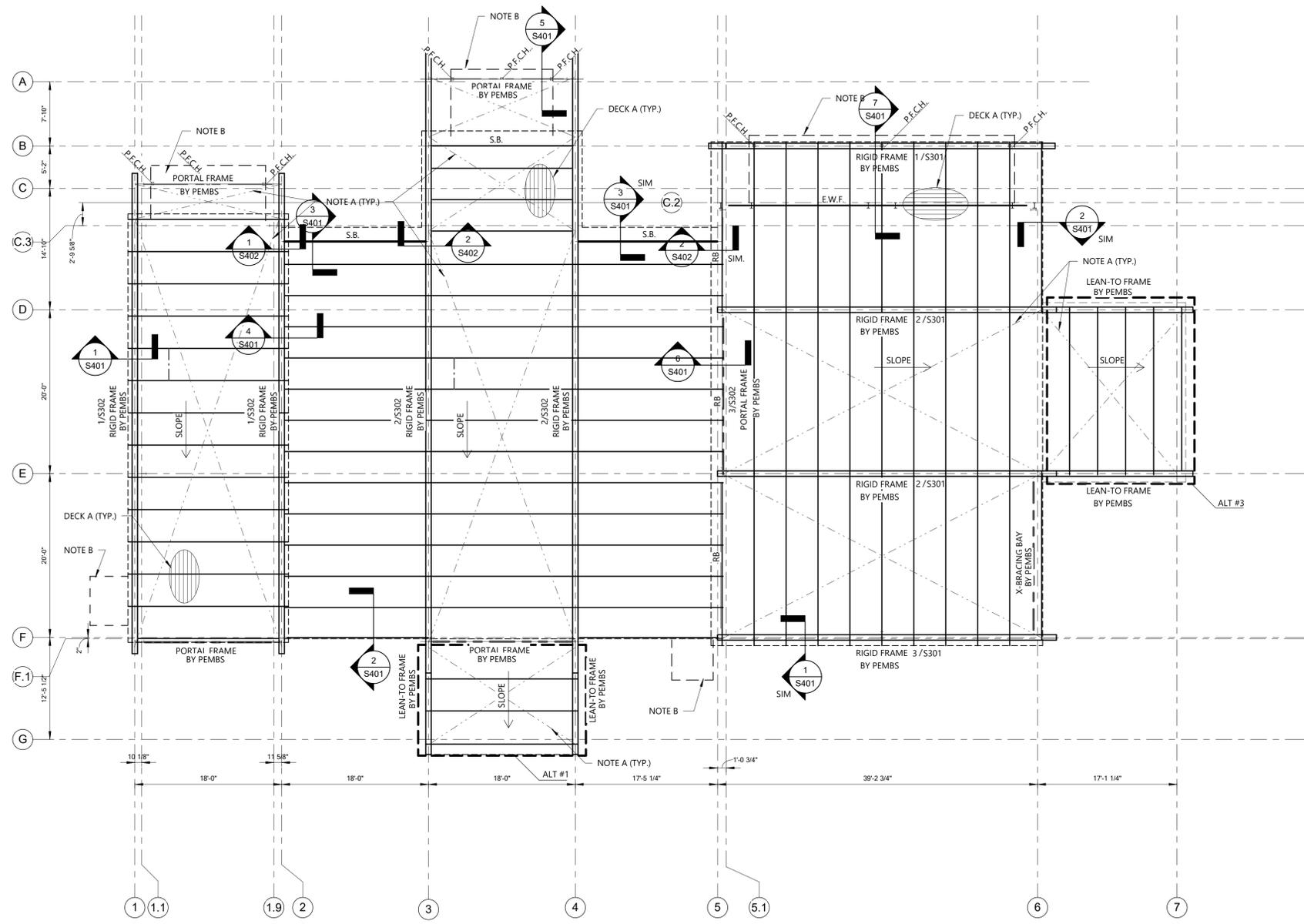
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SLAB PLAN

project number	21238.00	drawing number	S102
date	03-19-2019		
phase	BID DOCUMENTS		



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 COORDINATE 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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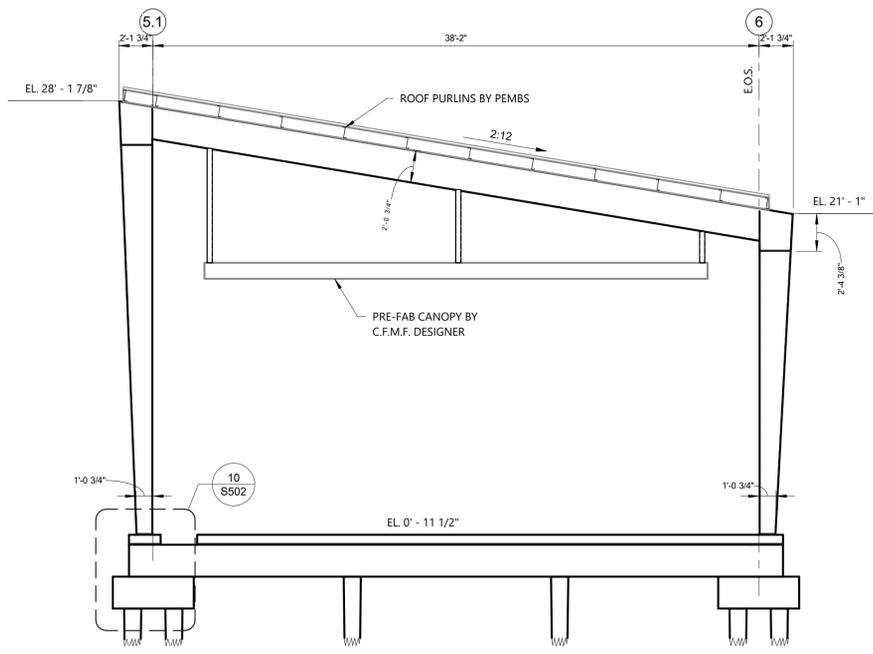
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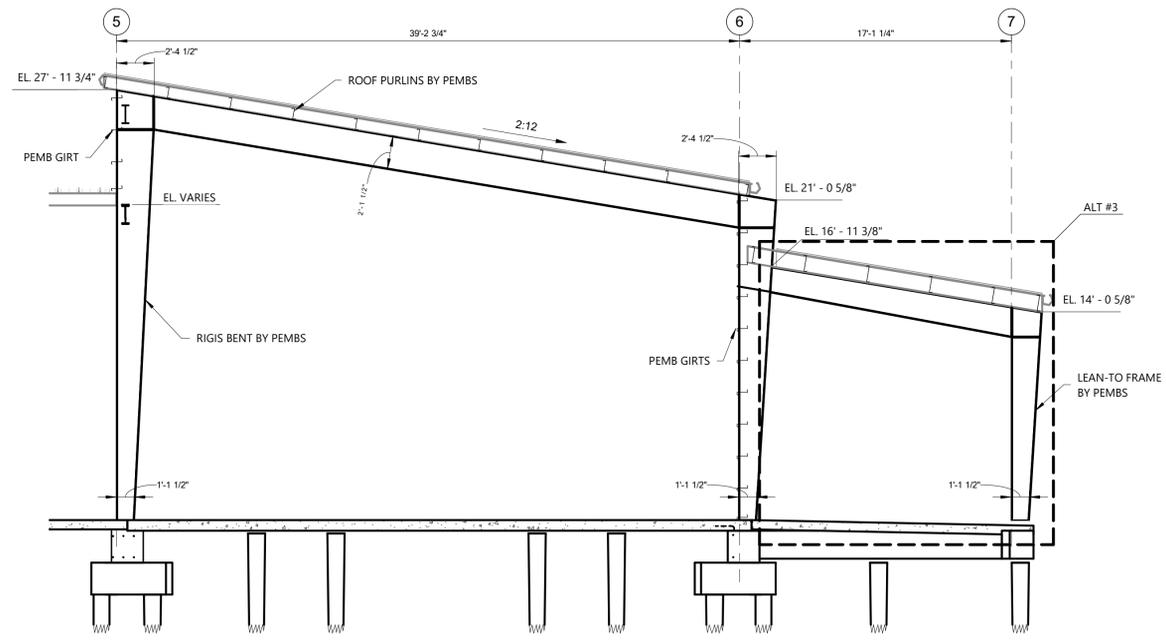
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ROOF FRAMING PLAN

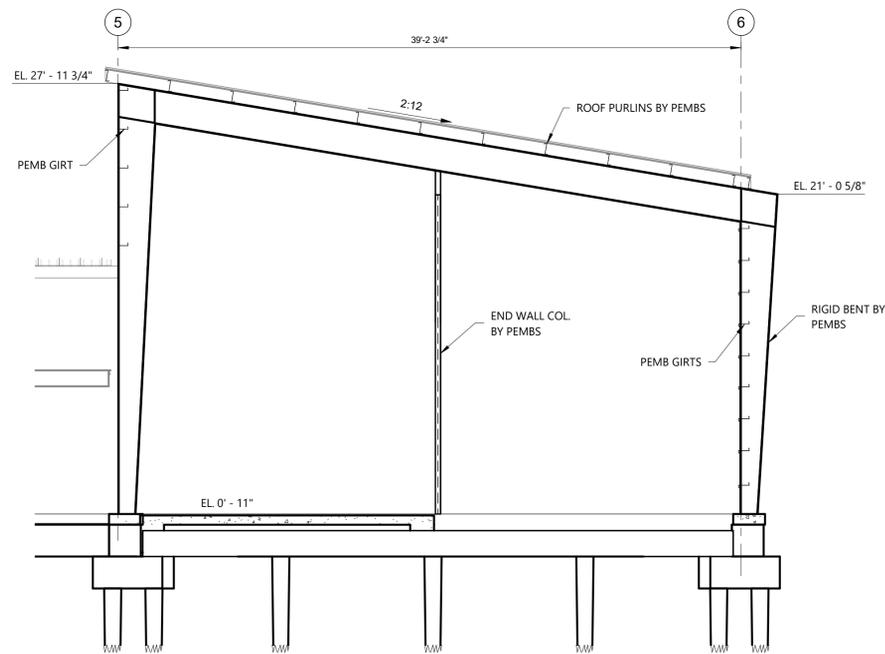
	project number	21238.00	drawing number S201
	date	03-19-2019	
	phase	BID DOCUMENTS	



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



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



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

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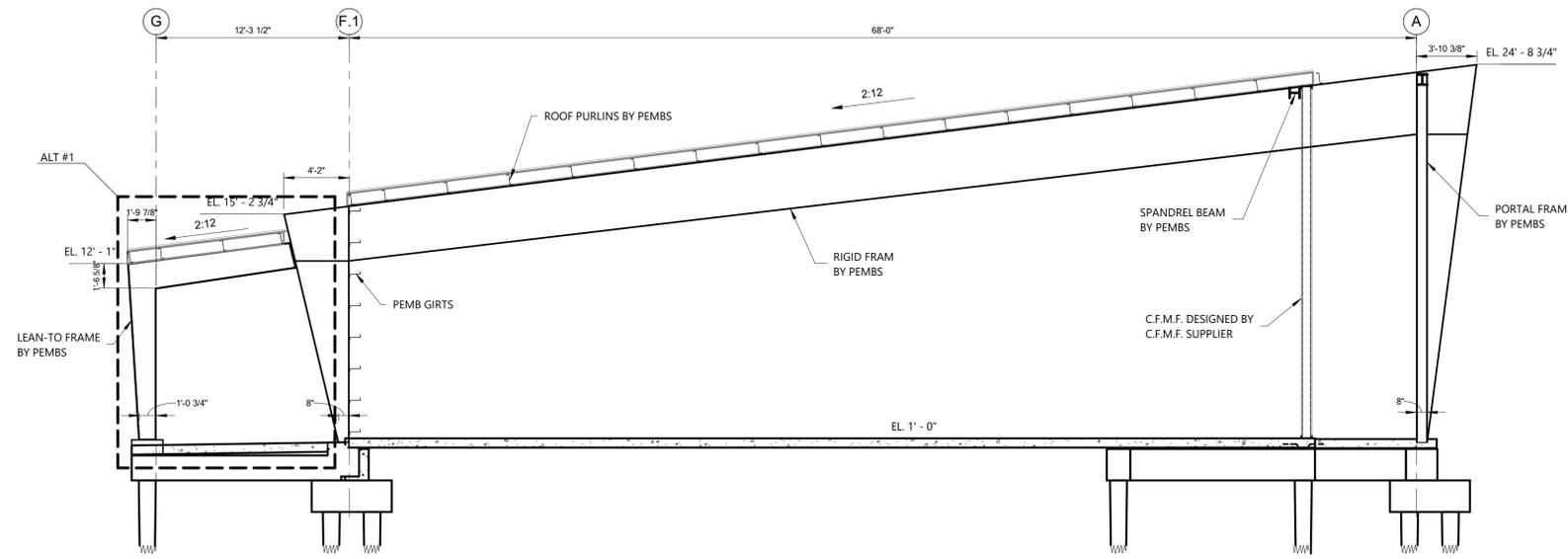
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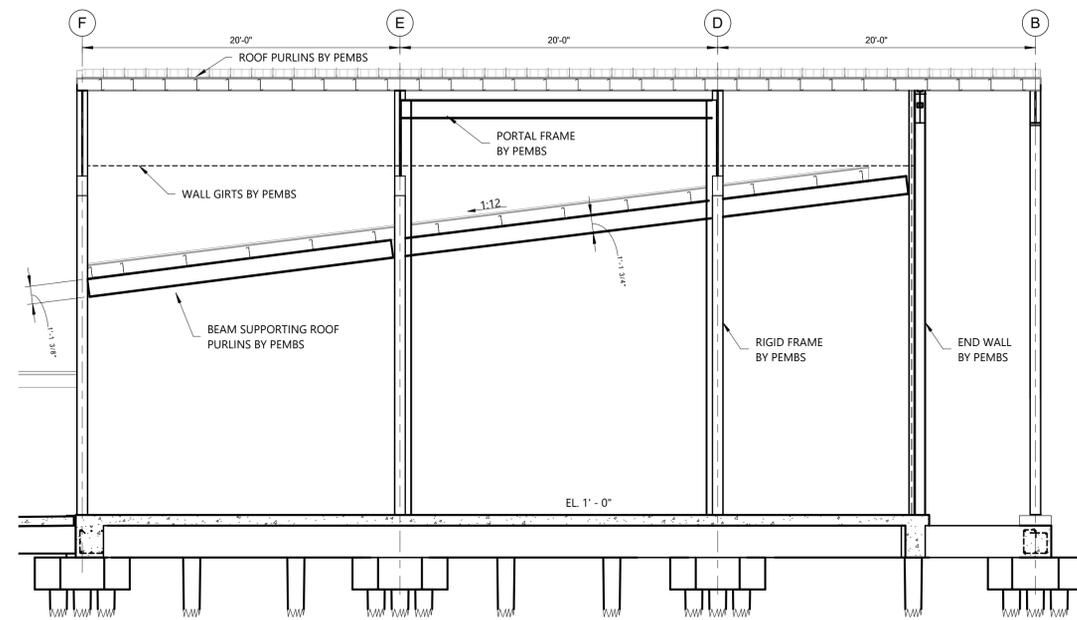
BUILDING SECTIONS

	project number	21238.00	drawing number
	date	03-19-2019	S301
	phase	BID DOCUMENTS	

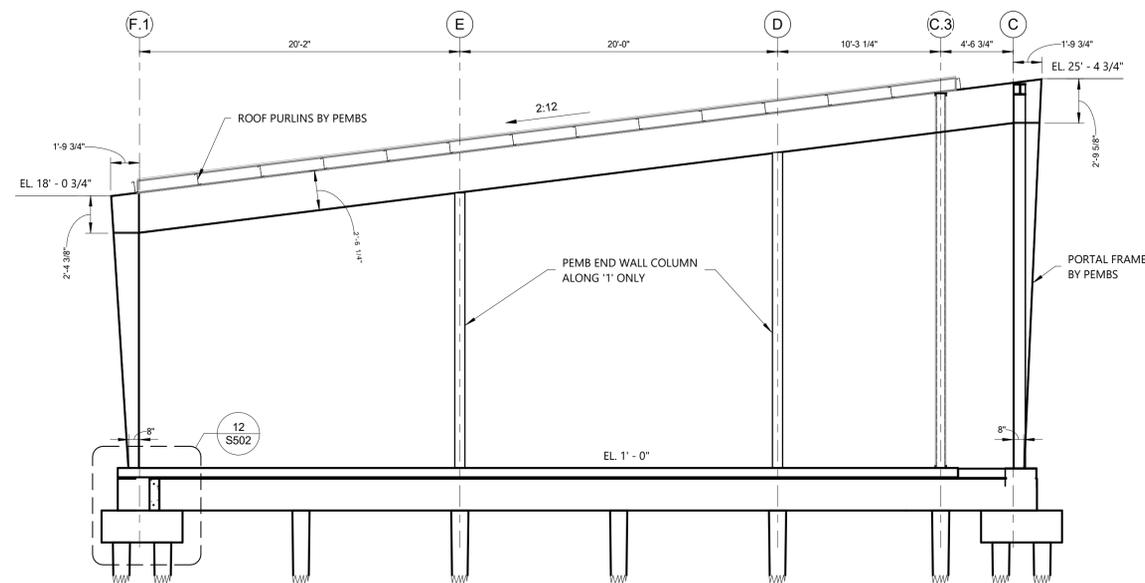
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2 RIGID BENT FRAME '3' AND '4'
S302 3/16" = 1'-0"



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



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

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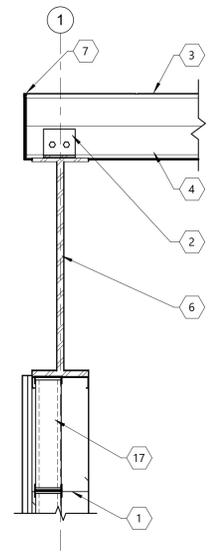
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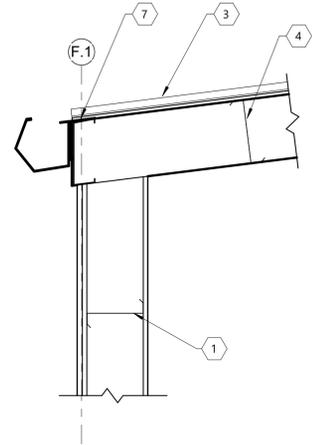
BUILDING SECTIONS

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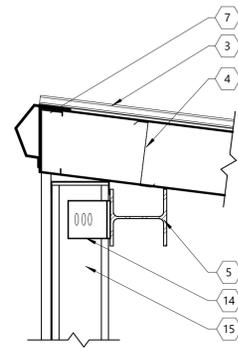
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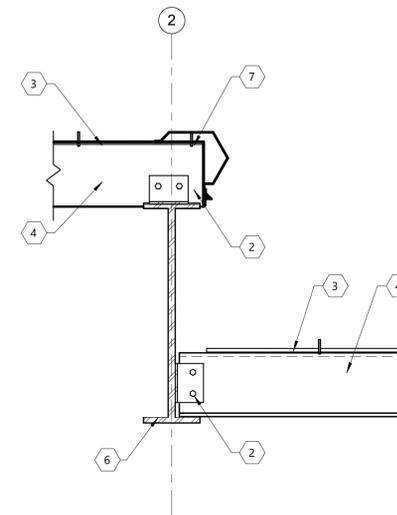
1 Roof Edge Detail
S401 1" = 1'-0"



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



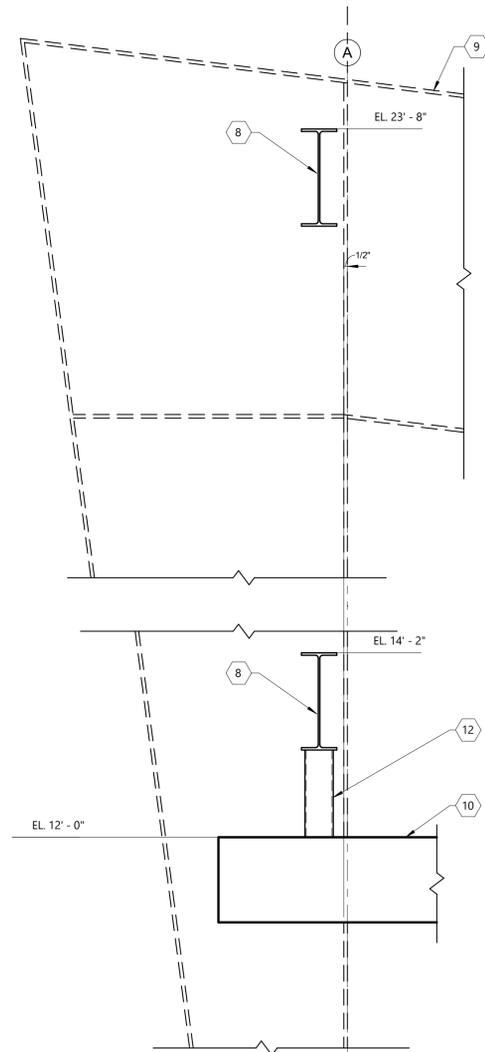
3 Detail At CFMF Wall
S401 1" = 1'-0"



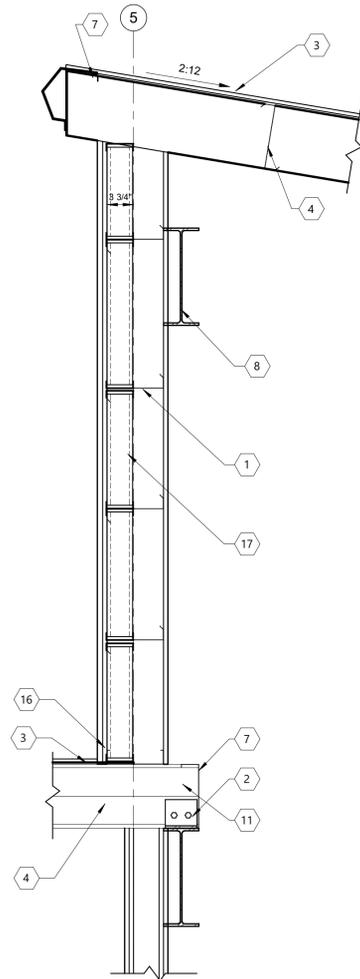
4 Detail At Roof Transition
S401 1" = 1'-0"

Keynote Legend

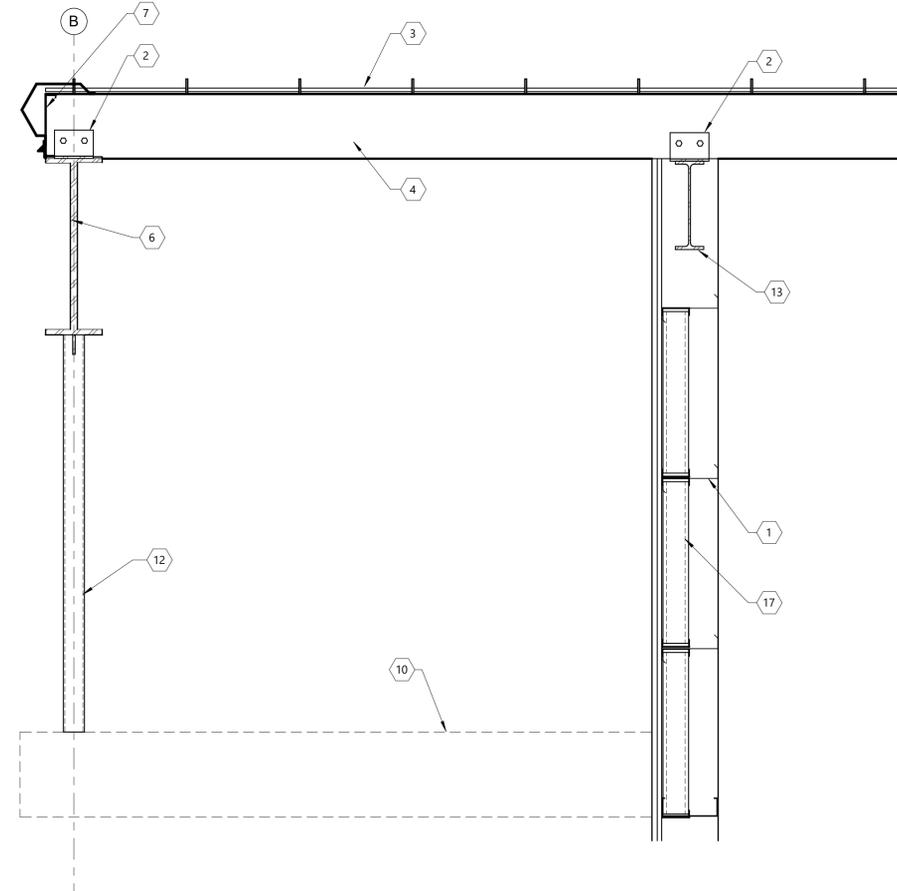
- 1 8" PEMB GIRT BY PEMBS.
- 2 PEMB CLIP CONNECTION BY PEMBS.
- 3 PRE-ENGINEERED METAL ROOF.
- 4 PRE-ENGINEERED METAL BUILDING ROOF PURLINS - SEE PLAN FOR DEPTH AND SPACING.
- 5 PEMB SPANDREL BEAM BY PEMBS.
- 6 PEMB RIGID FRAME BY PEMB.
- 7 EAVE STRUT BY PRE-ENGINEERED METAL BUILDING SUPPLIER.
- 8 PEMB 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" DEEP COLD-FORMED METAL WALL STUDS DESIGNED BY COLD-FORMED METAL FRAMING SUPPLIER. SEE SPECIFICATIONS 05 4000 FOR MORE INFORMATION.
- 16 PEMB C-GIRT AT BASE OF WALL BY PEMB SUPPLIER.
- 17 COLD-FORMED METAL INFILL STUD FRAMING AND CONNECTIONS TO BE DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. COORDINATE WITH P.E.M.B.S. FOR GIRT SPACING PRIOR TO DESIGN OR CONSTRUCTION. RE: ARCH. FOR ADDITIONAL WALL REQUIREMENTS.



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



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



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



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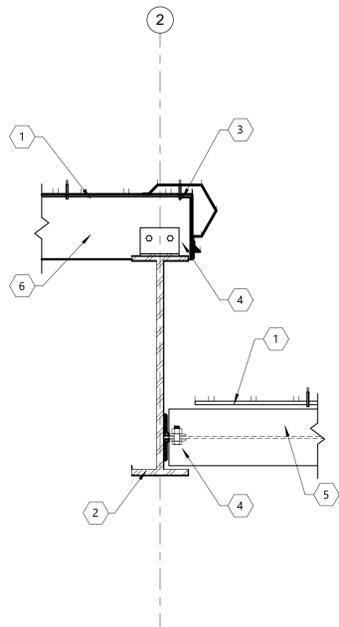
Revisions		
No.	Description	Date

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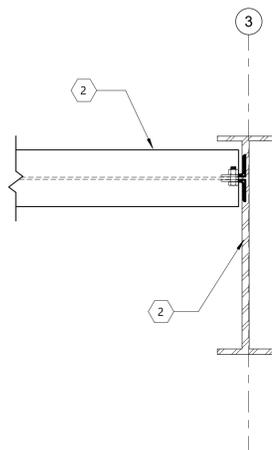
FRAMING DETAILS

	project number	21238.00	drawing number	S401
	date	03-19-2019		
	phase	BID DOCUMENTS		

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



2 Detail At Spandrel
S402 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 PEMB.
- 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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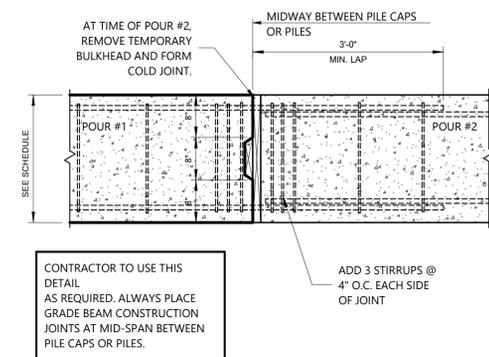
Revisions		
No.	Description	Date

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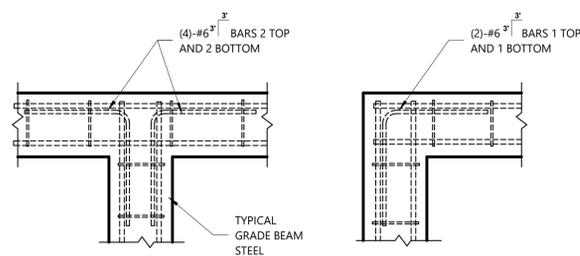
FRAMING DETAILS

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	date	03-19-2019	
	phase	BID DOCUMENTS	

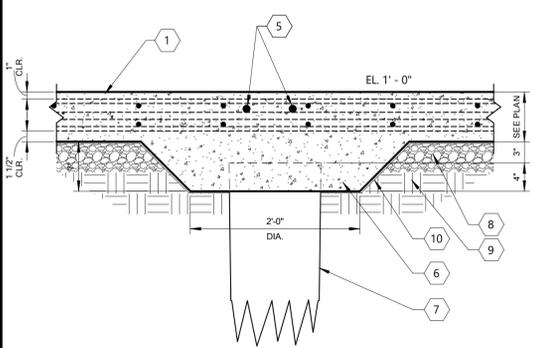
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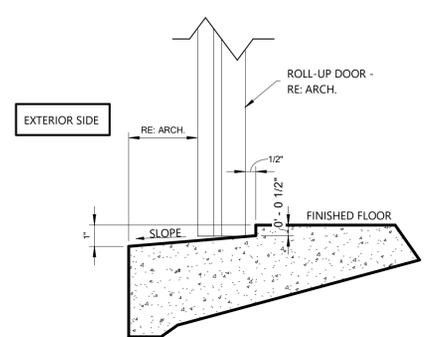
1 Grade Beam Construction Joint
S501 3/4" = 1'-0"



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



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

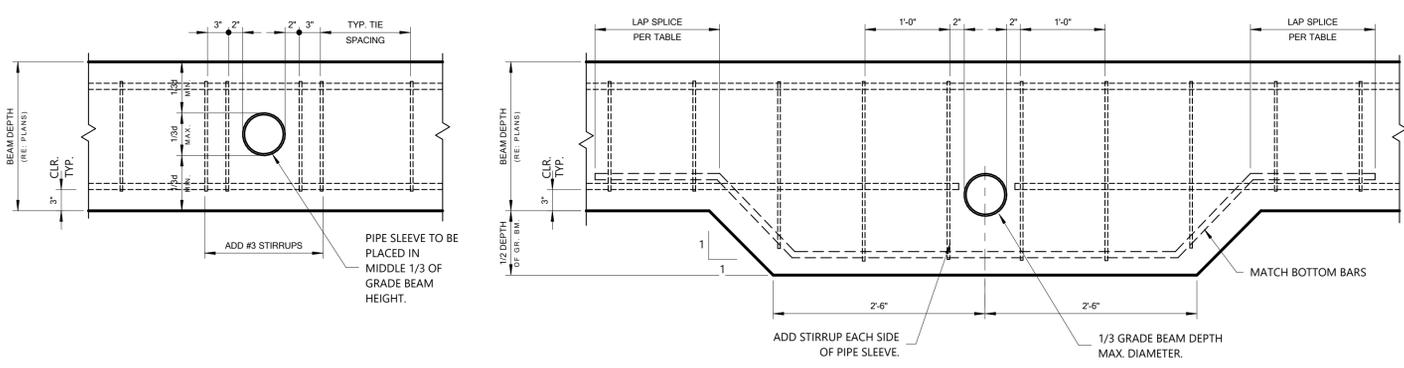


4 Slab Edge Detail At Roll-Up Door
S501 3" = 1'-0"

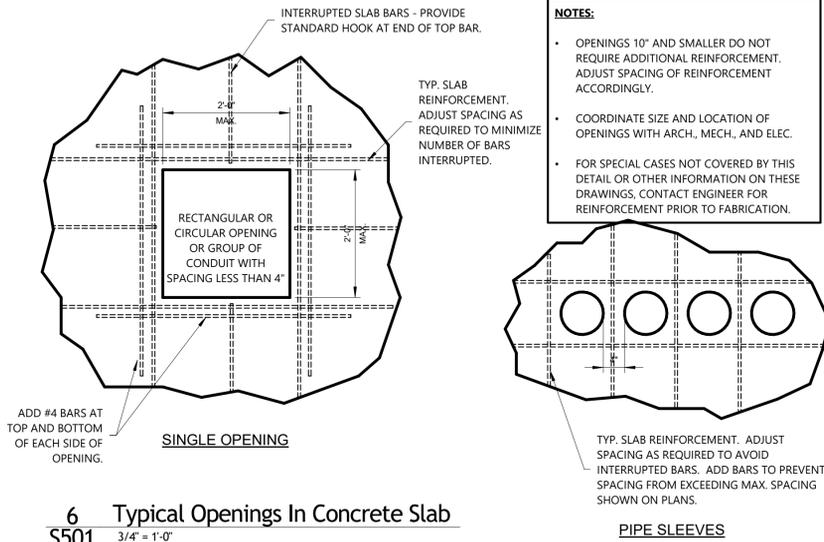
Keynote Legend

- 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.

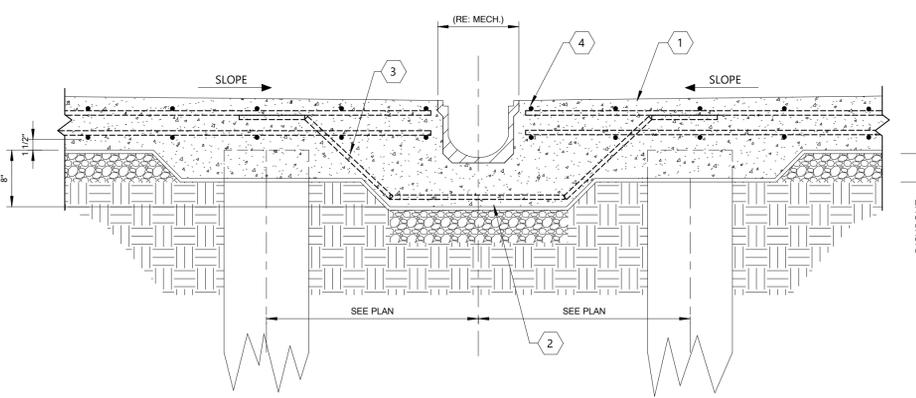


5 Typical Sleeve Detail in Grade Beam
S501 1" = 1'-0"



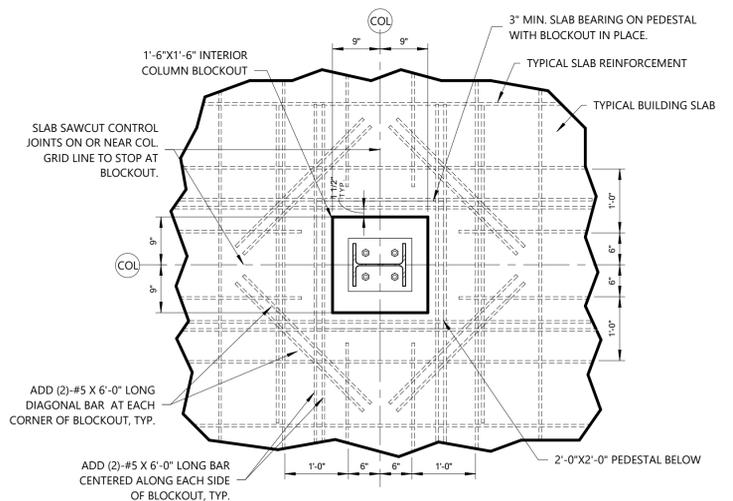
6 Typical Openings In Concrete Slab
S501 3/4" = 1'-0"

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7 Section At Trench Drain
S501 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.



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

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No.	Description	Date

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FOUNDATION DETAILS

project number	21238.00	drawing number	S501	
date	03-19-2019	phase		BID DOCUMENTS

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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 8" DEEP COLD-FORMED METAL WALL STUDS DESIGNED BY COLD-FORMED METAL FRAMING SUPPLIER. SEE SPECIFICATIONS 05 4000 FOR MORE INFORMATION.
- 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 PEMB.
- 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.
- 25 COLD-FORMED METAL INFILL STUD FRAMING AND CONNECTIONS TO BE DESIGNED AND PROVIDED BY COLD-FORMED METAL FRAMING SUPPLIER. COORDINATE WITH P.E.M.B.S. FOR GIRT SPACING PRIOR TO DESIGN OR CONSTRUCTION. RE: ARCH. FOR ADDITIONAL WALL REQUIREMENTS.

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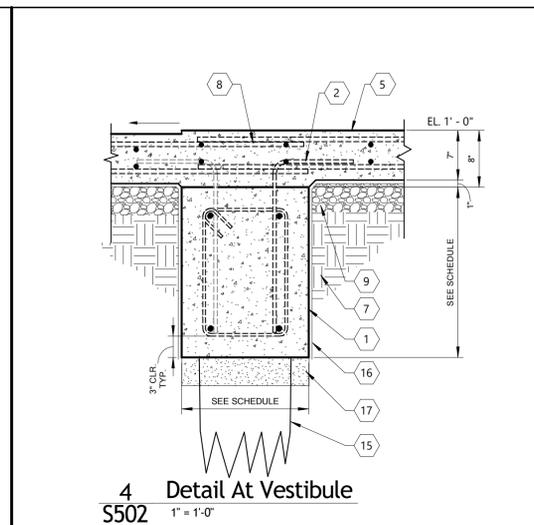
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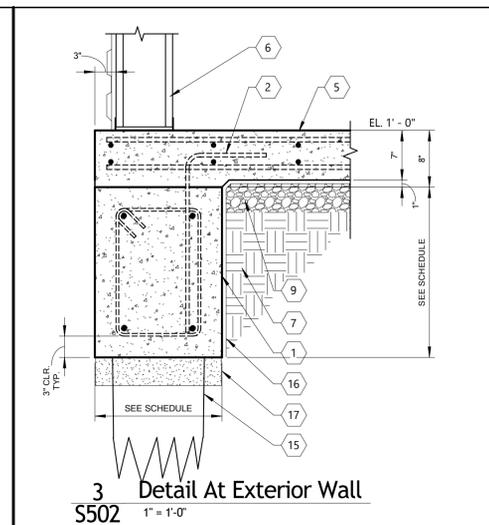
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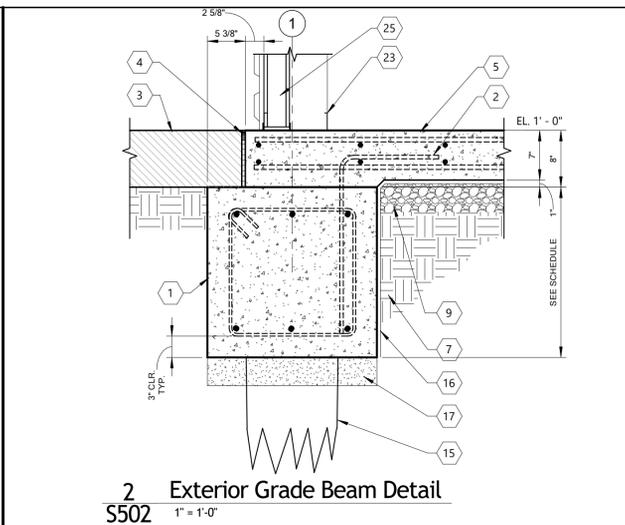
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	date	03-19-2019		
	phase	BID DOCUMENTS		



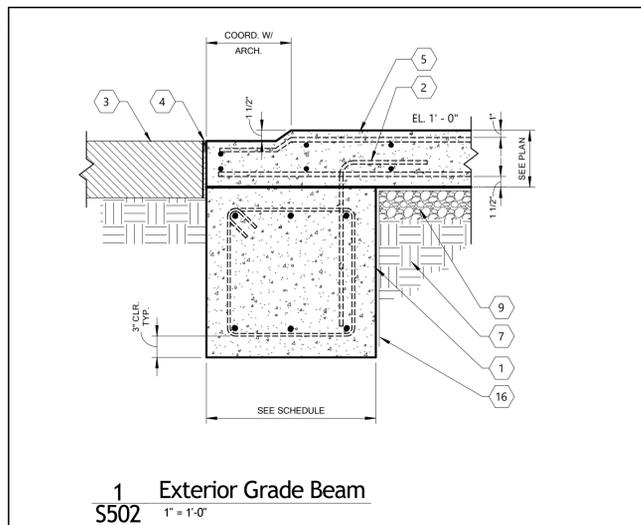
4 Detail At Vestibule
S502 1" = 1'-0"



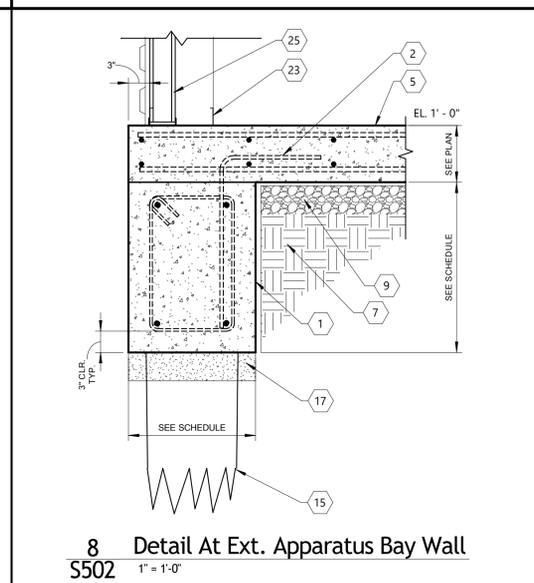
3 Detail At Exterior Wall
S502 1" = 1'-0"



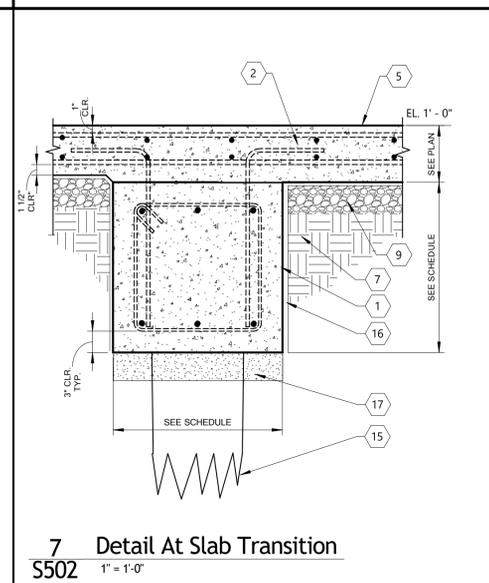
2 Exterior Grade Beam Detail
S502 1" = 1'-0"



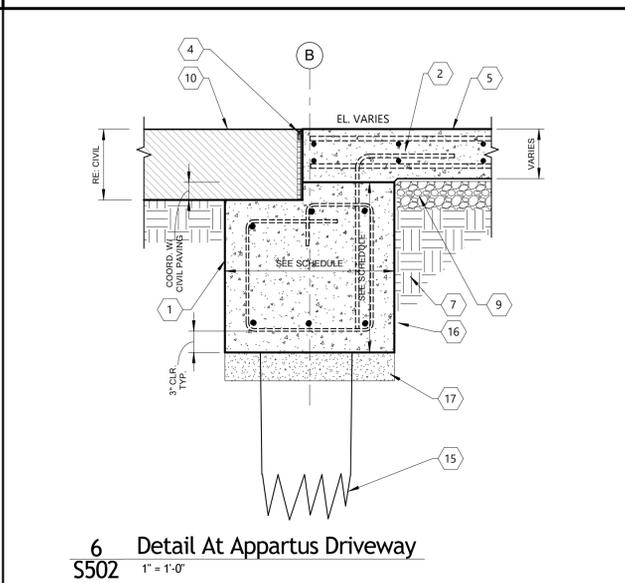
1 Exterior Grade Beam
S502 1" = 1'-0"



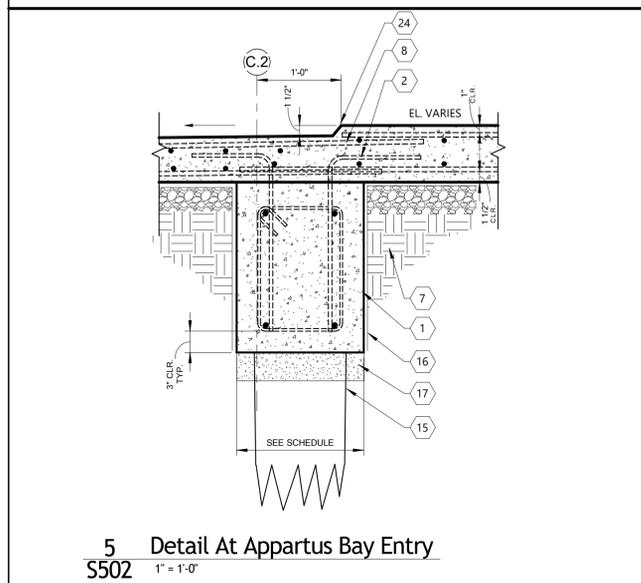
8 Detail At Ext. Apparatus Bay Wall
S502 1" = 1'-0"



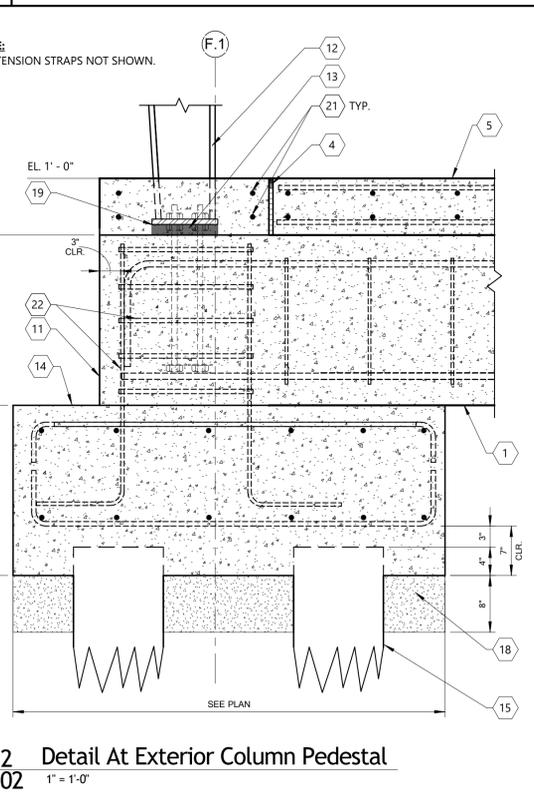
7 Detail At Slab Transition
S502 1" = 1'-0"



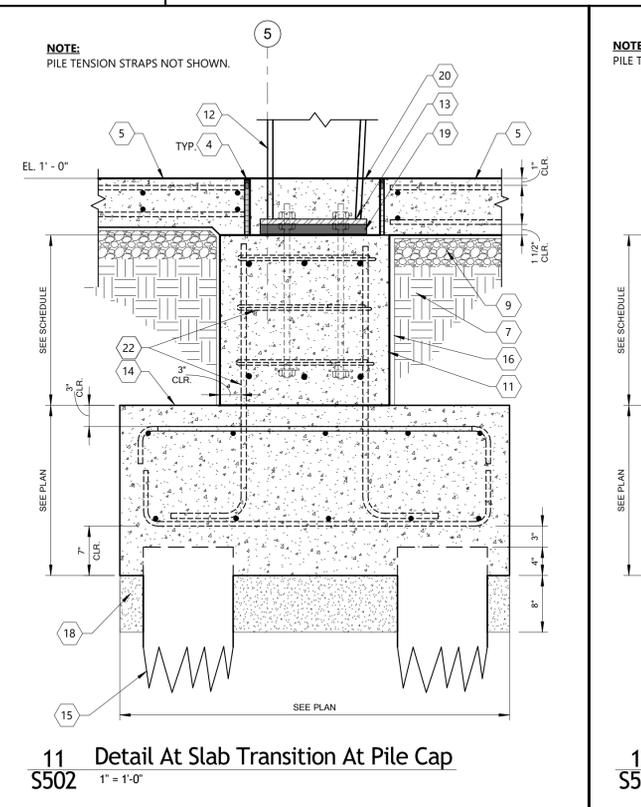
6 Detail At Apparatus Driveway
S502 1" = 1'-0"



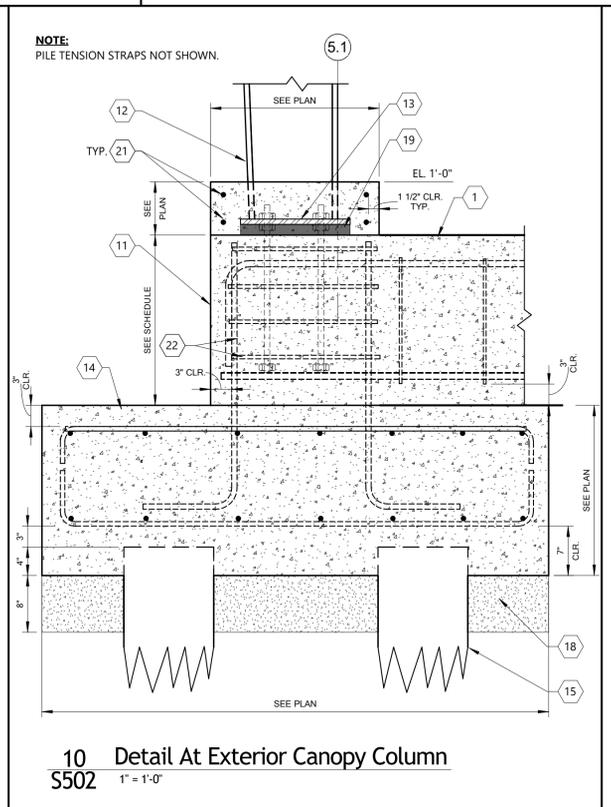
5 Detail At Appartus Bay Entry
S502 1" = 1'-0"



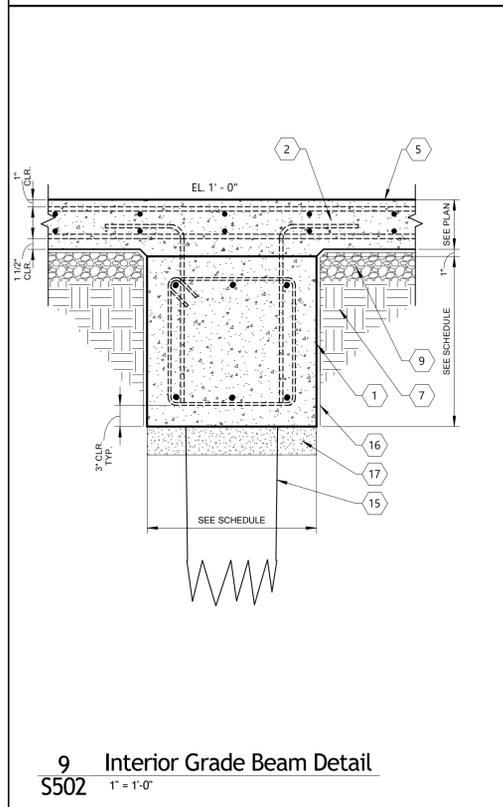
12 Detail At Exterior Column Pedestal
S502 1" = 1'-0"



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



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



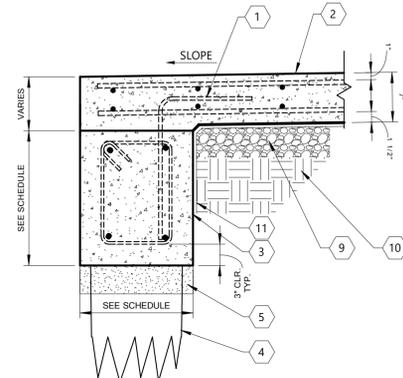
9 Interior Grade Beam Detail
S502 1" = 1'-0"

NOTE:
PILE TENSION STRAPS NOT SHOWN.

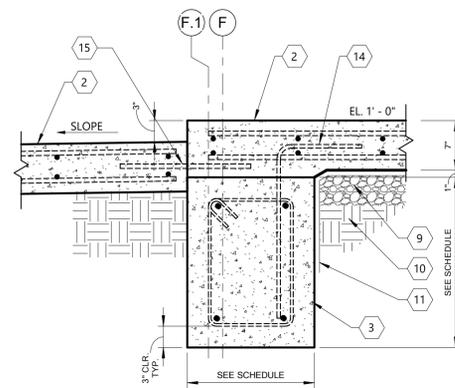
NOTE:
PILE TENSION STRAPS NOT SHOWN.

NOTE:
PILE TENSION STRAPS NOT SHOWN.

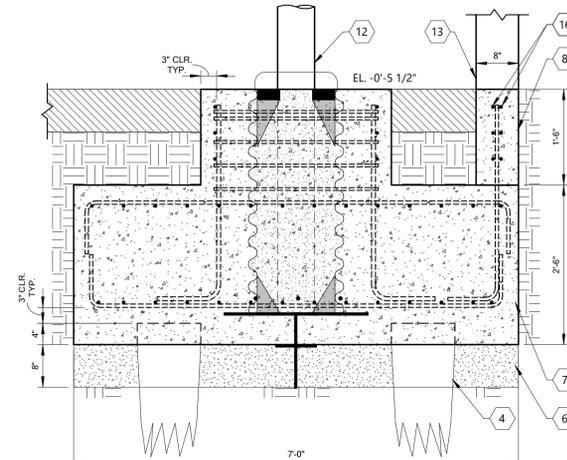
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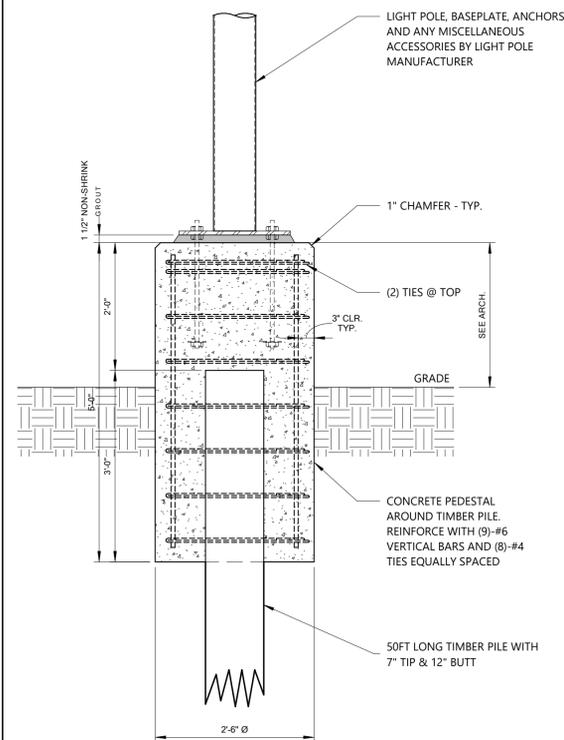
1 Detail At Sloping Slab Edge
S503 1" = 1'-0"



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



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



4 Light Pole Foundation Detail
S503 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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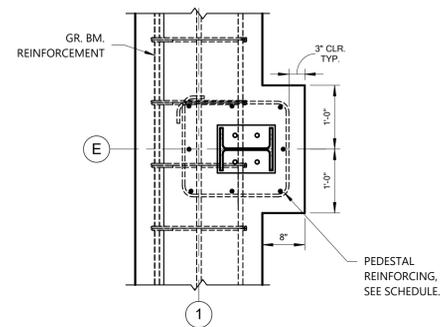
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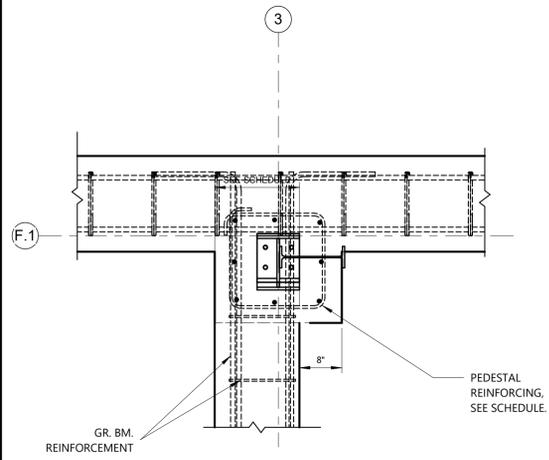
FOUNDATION DETAILS

	project number	21238.00	drawing number S503
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	phase	BID DOCUMENTS	

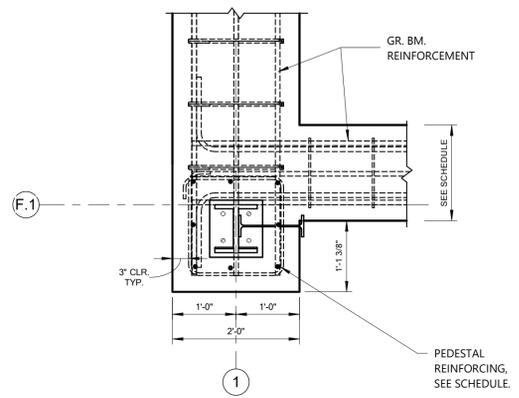
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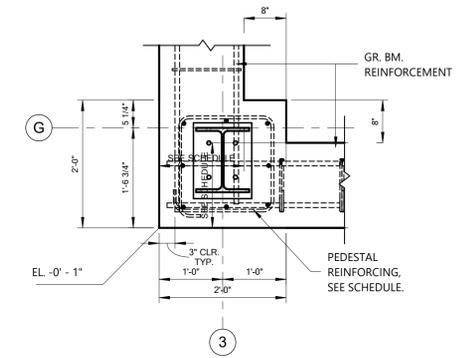
1 Pedestal Detail 1
S504 3/4" = 1'-0"



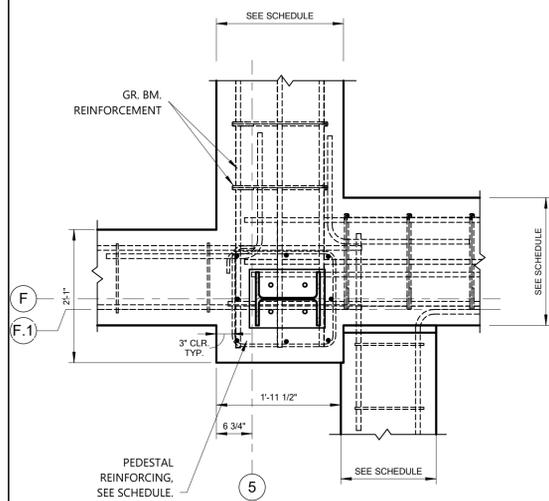
2 Pedestal Detail 2
S504 3/4" = 1'-0"



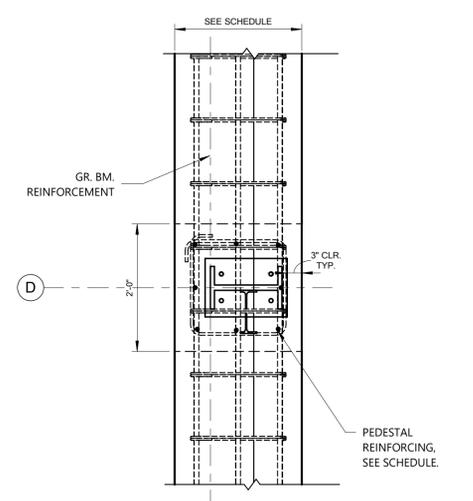
3 Pedestal Detail 3
S504 3/4" = 1'-0"



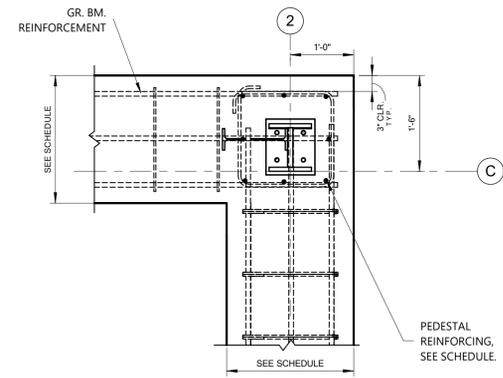
4 Pedestal Detail 4
S504 3/4" = 1'-0"



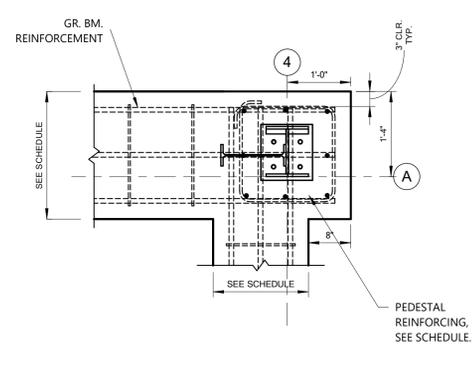
5 Pedestal Detail 5
S504 3/4" = 1'-0"



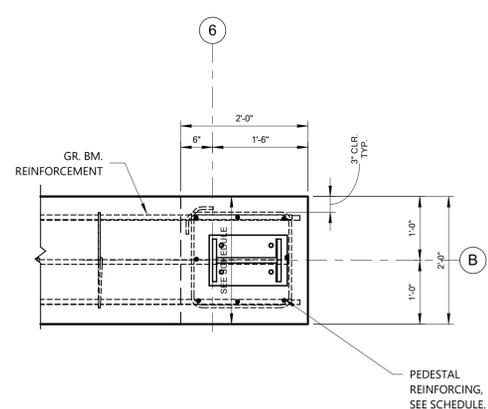
6 Pedestal Detail 6
S504 3/4" = 1'-0"



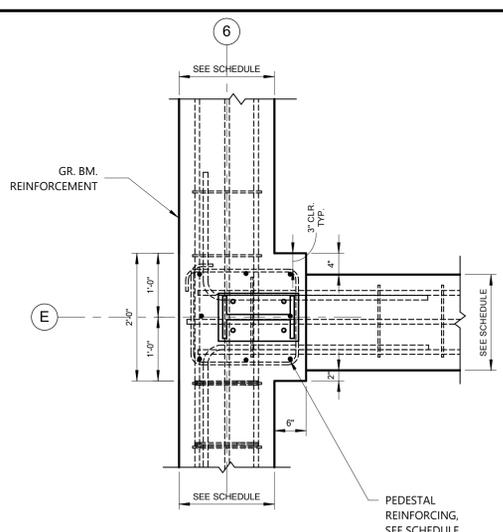
7 Pedestal Detail 7
S504 3/4" = 1'-0"



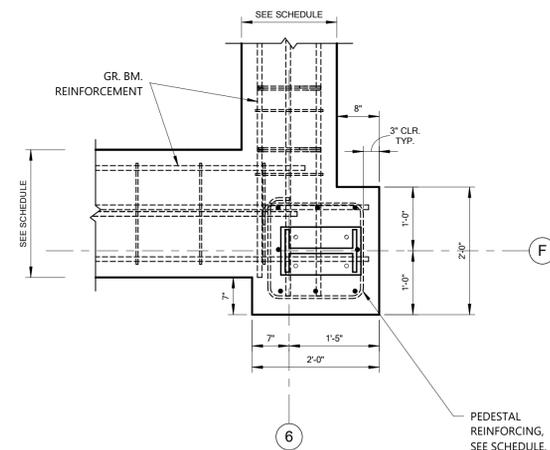
8 Pedestal Detail 8
S504 3/4" = 1'-0"



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



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



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

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Revisions		
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PEDESTAL DETAILS

	project number	21238.00	drawing number	S504
	date	03-19-2019		
	phase	BID DOCUMENTS		

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_{nom})----- 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
 S₁ ----- 0.101g
 S₂ ----- 0.053g
 SITE CLASS ----- D
 S_{as} ----- 0.108g
 S_{ds} ----- 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_r AND F_l) FOR SLAB ON GRADE ARE TO MEET SPECIFIED OVERALL FLATNESS OF SOF_r = 35 AND SPECIFIED OVERALL LEVELNESS OF SOF_l = 25 WITH MINIMUM LOCAL VALUES OF MLF_r = 21 AND MLF_l = 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)

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 AC208+

- 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 BASEPLATE.
- 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 55.
- 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+COL+L = SPAN/240
 2. ROOF MEMBER SUPPORTING NONPLASTER CEILING:
 - i. L = SPAN/240
 - ii. W = SPAN/240
 - iii. D+COL+L = SPAN/180
 3. ROOF MEMBER NOT SUPPORTING CEILING:
 - i. L = SPAN/180
 - ii. W = SPAN/180
 - iii. D+COL+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.
- D. ALL METAL BUILDING FRAMING TO BE PRIMED AND COATED WITH HIGH PERFORMANCE COATING. RE: ARCH. FOR COATING REQUIREMENTS.

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		
	project number	21238.00
	date	03-19-2019
	phase	BID DOCUMENTS
		S601

CONCRETE MIX REQUIREMENTS

USAGE	AGGREGATE	MIN. CEMENT (lb/yc)	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

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	
	3000 PSI	4000 PSI	3000 PSI	4000 PSI
BAR #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:

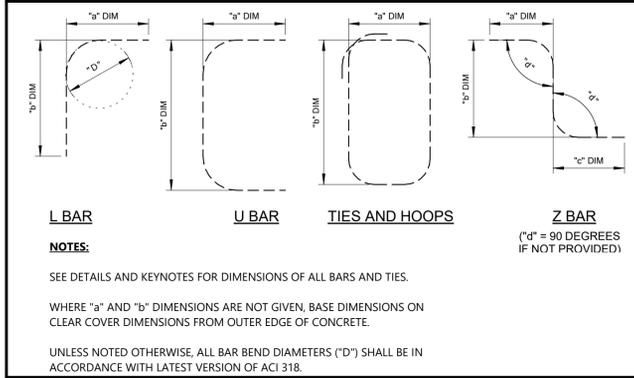
LAP SPLICE LENGTHS ABOVE APPLY TO ALL REINFORCING BARS FOR THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE PLANS.

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



COMPONENTS AND CLADDING DESIGN WIND PRESSURES (PSF)

EWA (FT ²)	ZONE	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:

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



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Revisions		
No.	Description	Date

ST JOHN THE BAPTIST PARISH
WESTBANK PUBLIC SAFETY COMPLEX
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SCHEDULES

	project number	21238.00	drawing number	S602
	date	03-19-2019		
	phase	BID DOCUMENTS		

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
CFE	- 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
CWS	- CONDENSER WATER SUPPLY
CWR	- CONDENSER WATER RETURN
DB	- DRY BULB TEMPERATURE
DB	- DECIBELS
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	- EXHAUST AIR VALVE
EDB	- ENTERING DRY BULB TEMPERATURE
EF	- EXHAUST FAN
EFF	- EFFICIENCY
EGS	- 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 SLOTT 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	- OUTSIDE 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
SO	- 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
UNO	- 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

- GENERAL NOTES SHALL APPLY TO ALL HVAC DRAWINGS.
- 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.
- ALL HVAC WORK SHALL BE COMPLETE AND READY FOR SATISFACTORY SERVICE.
- 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.
- THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE GENERAL ARRANGEMENT OF THE WORK.
- 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.
- 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.
- 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.
- COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS AND FLASHING REQUIREMENTS WITH THE WORK OF OTHER TRADES.
- 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.
- 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.
- MECHANICAL DUCTWORK TAKES PRECEDENCE 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.
- 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.
- MOUNT ROOM SENSORS AND SWITCHES AT 4'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- 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.
- 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.
- 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.
- 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.
- 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.
- COORDINATE LOCATIONS OF ALL DEVICES IN CEILING WITH ARCHITECTURAL RCP. LOCATIONS OF ALL DEVICES IN CEILING SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- FIRESTOP ALL PENETRATIONS THROUGH FIRE-RESISTANCE-RATED WALLS, FLOORS, OR ASSEMBLIES IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS.
- PROVIDE 1/2" MESH ALUMINUM SCREEN OVER THE OPENING OF ALL OPEN-ENDED DUCTWORK.
- 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.
- 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.
- PROVIDE SLEEVES AND PATCH ALL DUCT PENETRATIONS THROUGH WALLS AND FLOORS TO MATCH THE EXISTING CONSTRUCTION. SLEEVE DIMENSIONS SHALL BE 1" LARGER THAN INSULATED DUCT DIMENSIONS. THE SPACE BETWEEN THE DUCT AND THE SLEEVE SHALL BE PACKED WITH MINERAL FIBER AND CAULKED. ENSURE THAT ADEQUATE CLEARANCE EXISTS FOR THE INSTALLATION AND MAINTENANCE OF ALL WORK SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.
- 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 ARCHITECT'S CEILING ACCESS PANELS FOR ALL FIRE, SMOKE, AND VOLUME DAMPERS IN INACCESSIBLE CEILINGS AS REQUIRED.
- IDENTIFY ALL HVAC PIPING AND EQUIPMENT AS TO ITS FUNCTION AND EQUIPMENT NUMBER INDICATED ON THE DRAWINGS.
- 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.
- 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.
- 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		REFRIGERANT LIQUID LINE
	RETURN DUCT UP OR DOWN		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 GAUGE 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		FLOW SWITCH
	MANUAL DAMPER		FLOW METER
	AUTOMATIC DAMPER		STRAINER
	SMOKE DAMPER		GATE VALVE
	FIRE DAMPER (VERTICAL)		2-WAY CONTROL VALVE
	FIRE DAMPER (HORIZONTAL)		3-WAY CONTROL VALVE
	COMBINATION FIRE/SMOKE DAMPER (VERTICAL)		BALL VALVE
	COMBINATION FIRE/SMOKE DAMPER (HORIZONTAL)		CIRCUIT SETTER
	POINT BETWEEN DEMO & EXISTING WORK		PLUG VALVE
	POINT BETWEEN NEW & EXISTING WORK		GLOBE VALVE
	CUBIC FEET PER MINUTE		SOLENOID VALVE
	UNDERCUT IN DOOR		CHECK VALVE
	TEMPERATURE SENSOR		BUTTERFLY VALVE
	HUMIDITY SENSOR		BALANCING VALVE
	COMBINATION TEMP/HUMIDITY SENSOR		SIGHT GLASS
	CARBON DIOXIDE SENSOR		REFRIGERANT EXPANSION VALVE
	CARBON MONOXIDE SENSOR		REFRIGERANT ANGLE AND GLOBE VALVE
	EQUIPMENT CONTROLLER		PRESSURE REDUCING VALVE
	MANUAL SWITCH WITH SPRING WOUND TIMER		PRESSURE REGULATING VALVE
	STATIC PRESSURE SENSOR		PRESSURE RELIEF VALVE
	DIFFERENTIAL PRESSURE SENSOR		TEMP-PRESSURE RELIEF VALVE
	CHILLED WATER SUPPLY		GAUGE COCK
	CHILLED WATER RETURN		PET COCK (AIR VENT)
	CONDENSER WATER SUPPLY		DRAIN COCK
	CONDENSER WATER RETURN		EXPANSION JOINT
	HOT WATER SUPPLY		FLEXIBLE PIPE CONNECTION
	HOT WATER RETURN		CONCENTRIC REDUCER
	PRIMARY HOT WATER SUPPLY		ECCENTRIC REDUCER
	PRIMARY HOT WATER RETURN		DIAMETER AND FLAT OVAL
	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
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HVAC SYMBOLS, GENERAL NOTES, AND ABBREVIATIONS

	project number	21238.00	drawing number	M001
	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

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 CAP (KW)	STAGES	VOLTAGE (V)	PHASE (φ)	FREQUENCY (Hz)	MCA	MOCP	MANUFACTURER			MODEL		
DU-1	IT/DATA 121	CU-6	160	0	0.6	0.02	9.7	6.5	75.2	62.6			67	95	7.5	2	115	1	60	36.2	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	11.3	3	208	1	60	54.2	80	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.
6. EF-1 IS NOT USED.

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-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	VEHICLE EXHAUST	UTILITY	2100	6	3450	3			208	3	60	MAGNAGRIP	CF-363-3		1, 2	

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 (φ)	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			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	WEIGHT (LBS)		
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 (SQ IN)		REMARKS
			WIDTH	HEIGHT	
L1	4500	8.4	48	48	1, 2, 3
L2	4500	8.4	48	48	1, 2, 3
L3	4500	1.6	18	32	1, 2, 3
L4	390	0.6	20	12	1, 2, 3
L5	490	0.5	18	12	1, 2, 3
L6	4500	1.6	18	32	1, 2, 3

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Revisions		
No.	Description	Date

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

MECHANICAL SCHEDULES

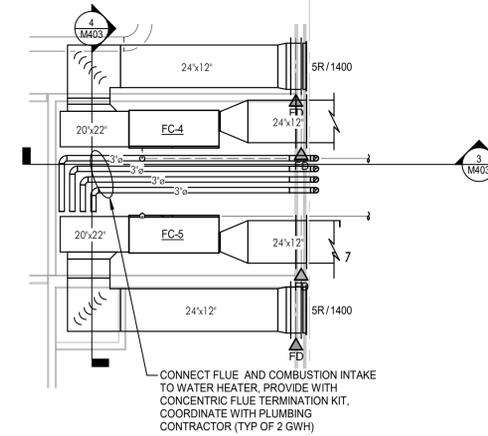
	project number	21238.00	drawing number	M002
	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

SHEET GENERAL NOTES

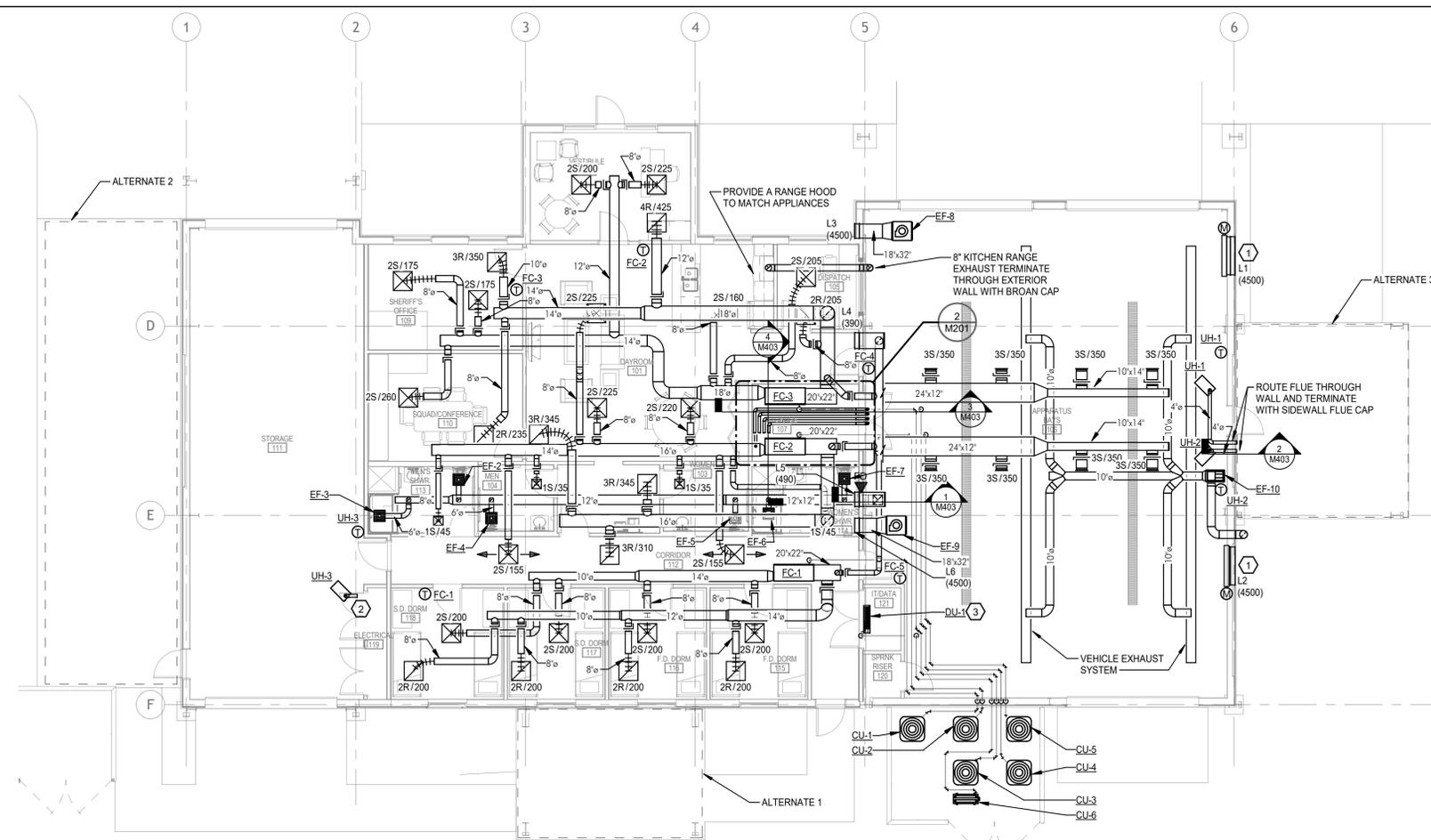
- ALTERNATE NO. 1: ALL MECHANICAL WORK ASSOCIATED WITH THE COVERED PATIO ON THE SOUTH SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 1, UNLESS NOTED OTHERWISE.
- ALTERNATE NO. 2: ALL MECHANICAL WORK ASSOCIATED WITH MOBILE COMMAND CENTER PARKING ON WEST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 2, UNLESS NOTED OTHERWISE.
- ALTERNATE NO. 3: ALL MECHANICAL WORK ASSOCIATED WITH COVERED AMBULANCE BAY ON EAST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 3, UNLESS NOTED OTHERWISE.

SHEET REFERENCE NOTES

- 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 ENGAGED. PROVIDE REQUIRED RELAYS TO CONTROL LOUVER DAMPER ACTUATOR. DAMPER ACTUATOR SHALL BE 120V.
- ROUTE FLUE THROUGH EXTERIOR WALL ABOVE THE LOW ROOF.
- COORDINATE LOCATION WITH IT EQUIPMENT. PUMP CONDENSATE TO NEAREST DRAIN.



CONNECT FLUE AND COMBUSTION INTAKE TO WATER HEATER, PROVIDE WITH CONCENTRIC FLUE TERMINATION KIT, COORDINATE WITH PLUMBING CONTRACTOR (TYP OF 2 GWH)



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

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

GENERAL CONSTRUCTION NOTES:

- FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY DRAWINGS ARE DIAGRAMMATIC AND DESIGN INTENT ONLY. CONTRACTOR MUST VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT BEFORE BEGINNING ANY FABRICATION OR CONSTRUCTION.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES IN ACCORDANCE WITH THE 2009 ICC (IBC, IMC).
- ALL NEW MATERIAL METHODS, AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AS APPROVED BY THE OWNER.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- COORDINATE EXACT LOCATION OF EXHAUST FANS, DUCTWORK, AND EXHAUST DROPS WITH OWNER'S EQUIPMENT, LIGHTING, AND ALL EXISTING CONDITIONS.
- ALL EXHAUST DUCTWORK SHALL BE SPIRAL SEAM GALVANIZED STEEL FABRICATED AND INSTALLED IN ACCORDANCE WITH CHAPTER 6 08BC MC AND SMACNA STANDARD MANUAL.
- SHEETMETAL DUCT DIMENSIONS SHOWN ARE AIR WAY DIMENSIONS.
- BALANCE EXHAUST SYSTEM AND EACH EXHAUST DROP MEET AIR QUANTITIES AS REQUIRED FOR 600 CFM PER DROP.
- CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR OWNER PRIOR TO ANY ROOF PENETRATION OR CUTTING ROOF.

FAN SCHEDULE

FAN TYPE	ID#	AIRFLOW (CFM)	RPM	STATIC PRESSURE (IN. W.G.)	/PHASE	HP	QTY
MAGNEGRIP	CF-303-3	2100	3450	6 SP	3 PH	3	1

REMARKS:

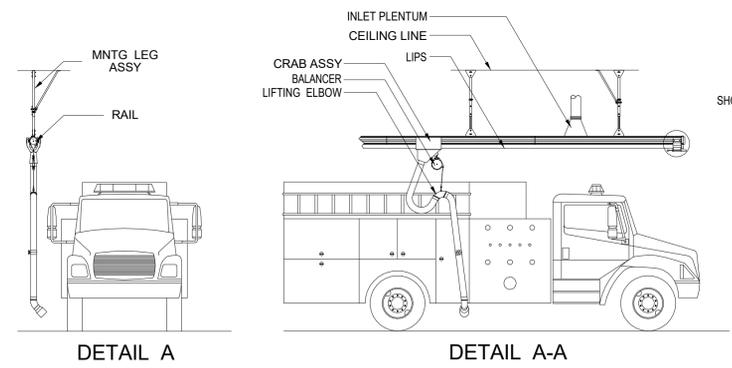
- ITEM HAS BEEN SPECIFIED FOR QUALITY AND PERFORMANCE ANY APPROVED SUBSTITUTION IS AT THE RISK OF THE OWNER.
- FAN SHALL BE UL LISTED AND AMCA CERTIFIED.
- FAN SHALL BE CONTROLLED BY VES CONTROL PANEL. PROVIDE SENSORS, TRANSMITTERS, RECEIVERS, AND OTHER ITEMS REQUIRED FOR ALL FULLY AUTOMATIC SYSTEM.
- PROVIDE RAIN CAP, BACKDRAFT DAMPER AND OTHER ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
- ELECTRICAL INFORMATION SHALL BE VERIFIED BY HANGPLATE RATINGS. COORDINATE WITH EXISTING ELECTRICAL SERVICE FOR THE BUILDING.

VEHICLE EXHAUST SYSTEM

DESCRIPTION	PART #	QTY	REMARKS
CONTROL PANEL	90177-08	1	
RAIN CAP	90107-10	1	
SUCTION RAIL	88RM501	2	
AUTO START	94053-01	X	X

REMARKS:

- ITEM HAS BEEN SPECIFIED FOR QUALITY AND PERFORMANCE ANY APPROVED SUBSTITUTION IS AT THE RISK OF THE OWNER.
- PROVIDE TRACK OR RAIL SYSTEM, TRANSITION ELBOW, HIGH TEMPERATURE HOSE, HOSE CLAMP, HOSE IN, TAIL PIPE CONNECTION, FRESH AIR INTAKE, AND OTHER ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
- PROVIDE WIRELESS CONTROL PANEL, ACTIVATION, PRESSURE SENSORS, WIRELESS TRANSMITTERS, AND ADDITIONAL COMPONENTS IF REQUIRED FOR AUTOMATIC FAN CONTROL.
- VEHICLE EXHAUST SYSTEM DESIGN AND DRAWING IS THE SOLE PROPERTY OF THE DESIGNER. CLEAR AIR CONCEPTS.
- DETAILS MAY NOT REPRESENT THE SAME KIND OF VEHICLE IN PLAN VIEW.
- DETAILS ARE MEANT TO ILLUSTRATE "TYPICAL" ELEVATION VIEWS.



3
M201
MAGNEGRIP INSTALLATION DETAILS
N.T.S.

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Revisions

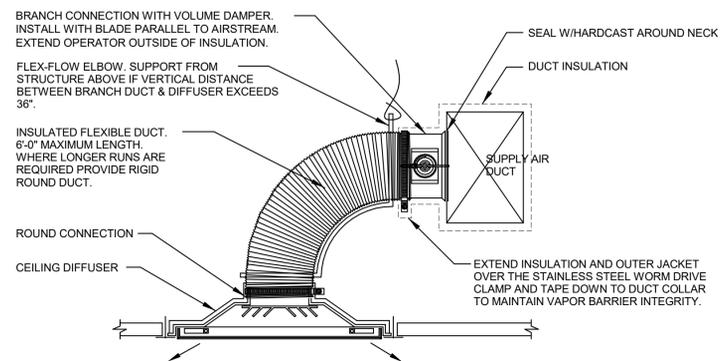
No.	Description	Date

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

MECHANICAL PLAN

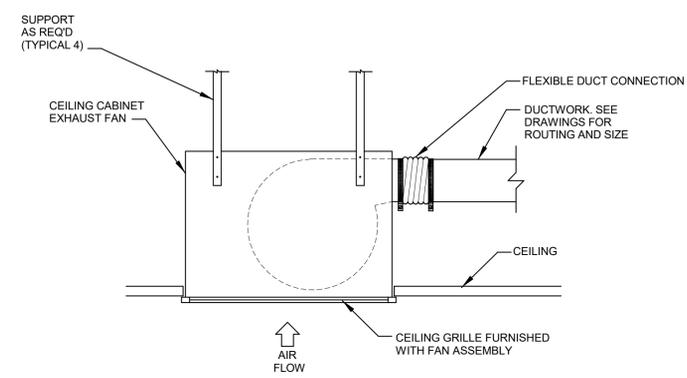
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	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

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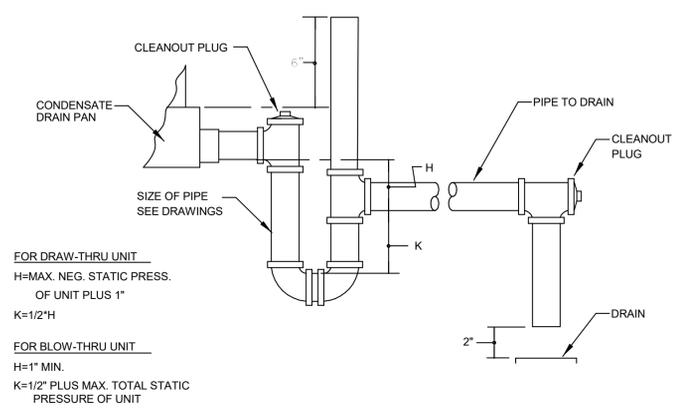


NOTES:
 1. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.
 2. PROVIDE REGULATORS WHERE VOLUME DAMPER IS INACCESSIBLE. SEE DETAIL FOR ADDITIONAL INFORMATION.
 3. IN UNCONDITIONED CEILING PLENUMS, INSULATE BACK OF DIFFUSER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

1 CEILING DIFFUSER
 M401 N.T.S.

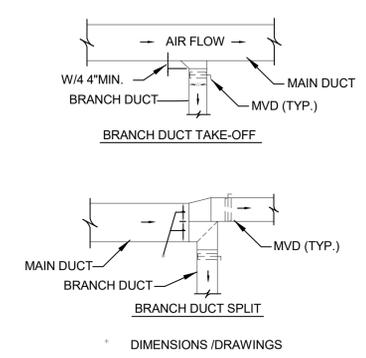


2 CEILING EXHAUST FAN
 M401 N.T.S.

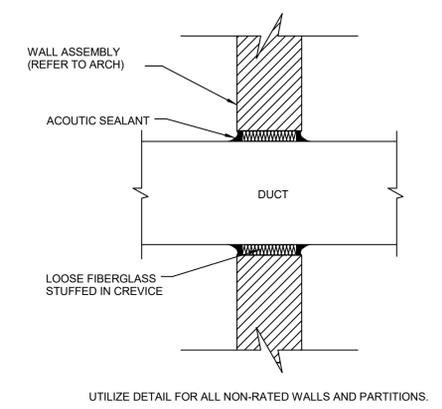


FOR DRAW-THRU UNIT
 H=MAX. NEG. STATIC PRESS. OF UNIT PLUS 1"
 K=1/2"H
 FOR BLOW-THRU UNIT
 H=1" MIN.
 K=1/2" PLUS MAX. TOTAL STATIC PRESSURE OF UNIT

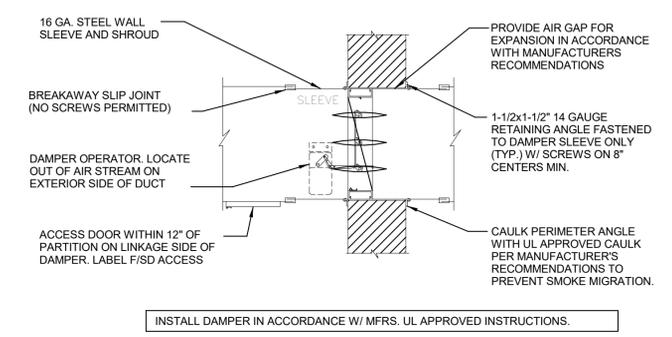
3 CONDENSATE TRAP
 M401 N.T.S.



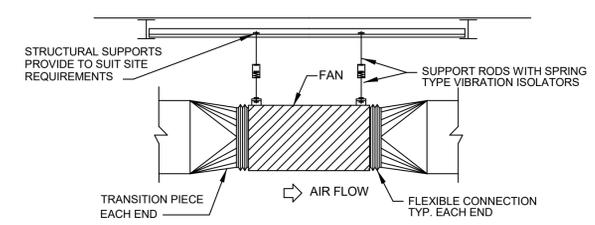
4 DUCT TAKE-OFF
 M401 N.T.S.



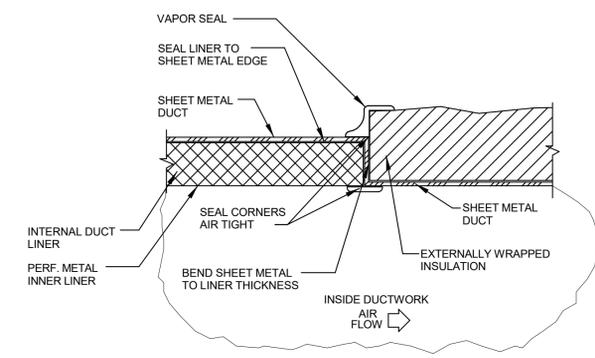
5 DUCT THRU WALL PENETRATION
 M401 N.T.S.



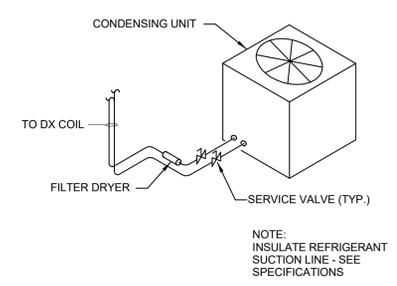
6 FIRE & SMOKE DAMPER
 M401 N.T.S.



7 INLINE FAN
 M401 N.T.S.



8 INTERNAL-EXTERNAL
 M401 N.T.S.



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

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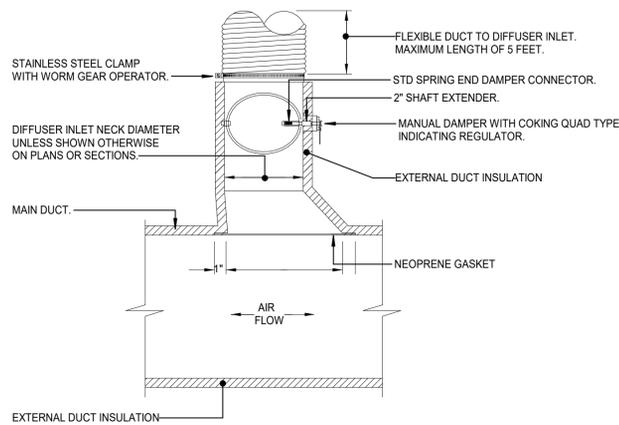
Revisions		
No.	Description	Date

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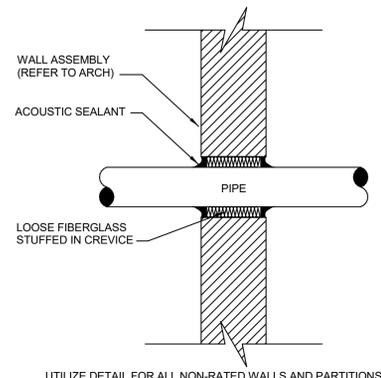
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	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

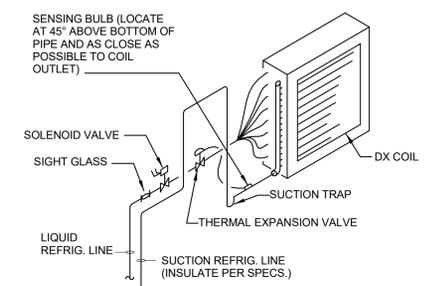
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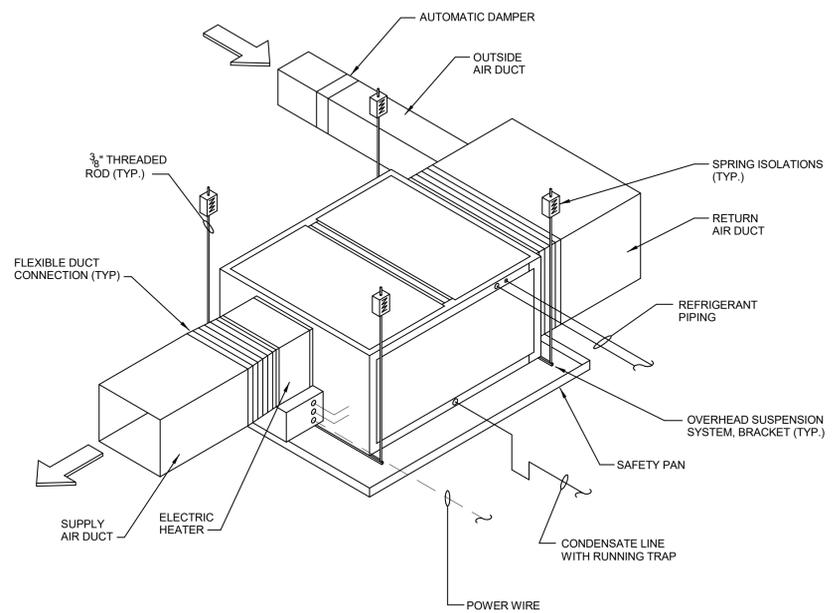
1 LOW PRESSURE TAKE-OFF
M402 N.T.S.



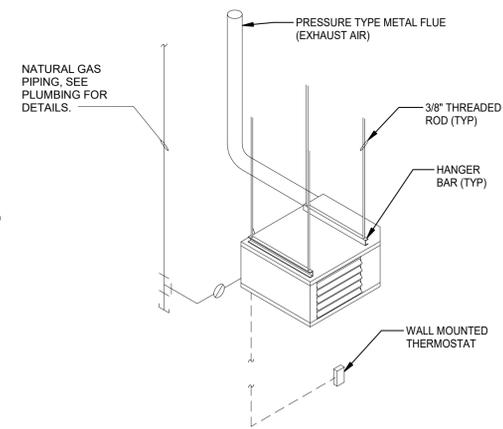
2 PIPE THRU WALL ACOUSTIC PENETRATION
M402 N.T.S.



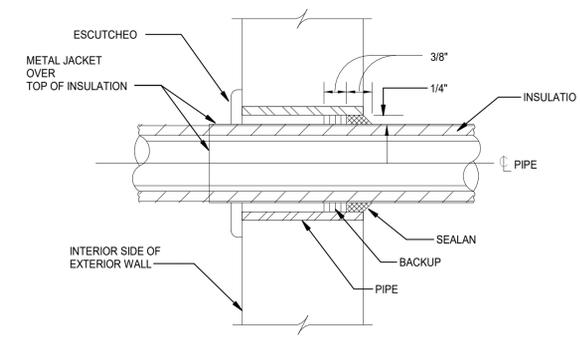
3 REFRIGERANT COIL PIPING
M402 N.T.S.



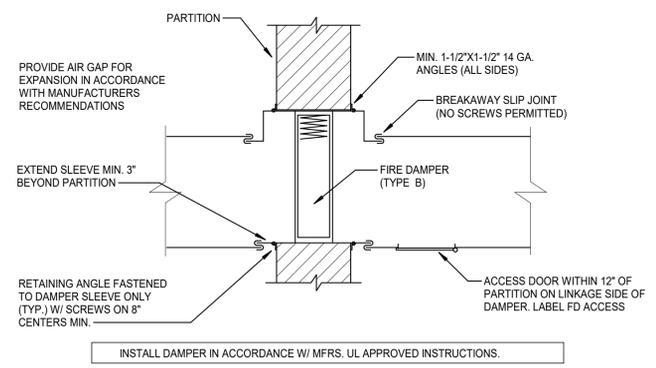
4 TYPICAL HORIZONTAL AC UNIT CONNECTION DETAIL
M402 N.T.S.



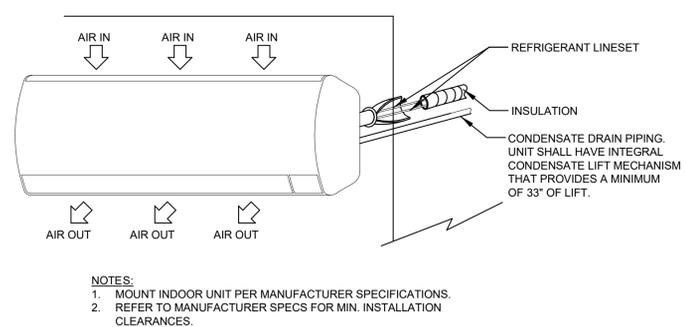
5 GAS UNIT HEATER
M402 N.T.S.



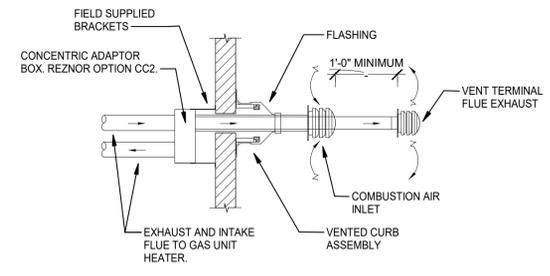
6 PIPE THRU EXTERIOR WALL
M402 N.T.S.



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



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



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

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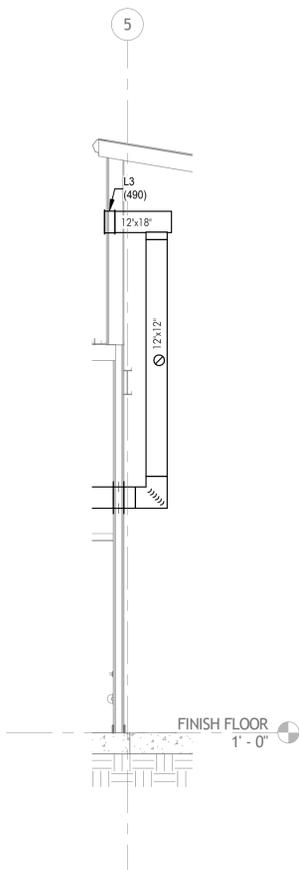
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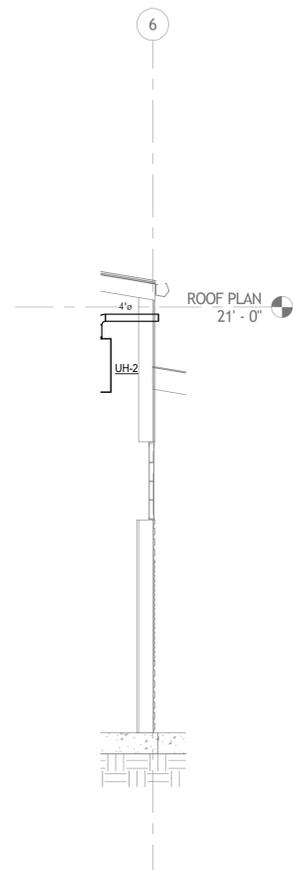
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project number	21238.00	drawing number
date	MARCH 19, 2019	M402
phase	BID DOCUMENTS	

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STATE OF LOUISIANA
CHRISTOPHER DAVID CHAVIN
REG. NO. 38045
PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING

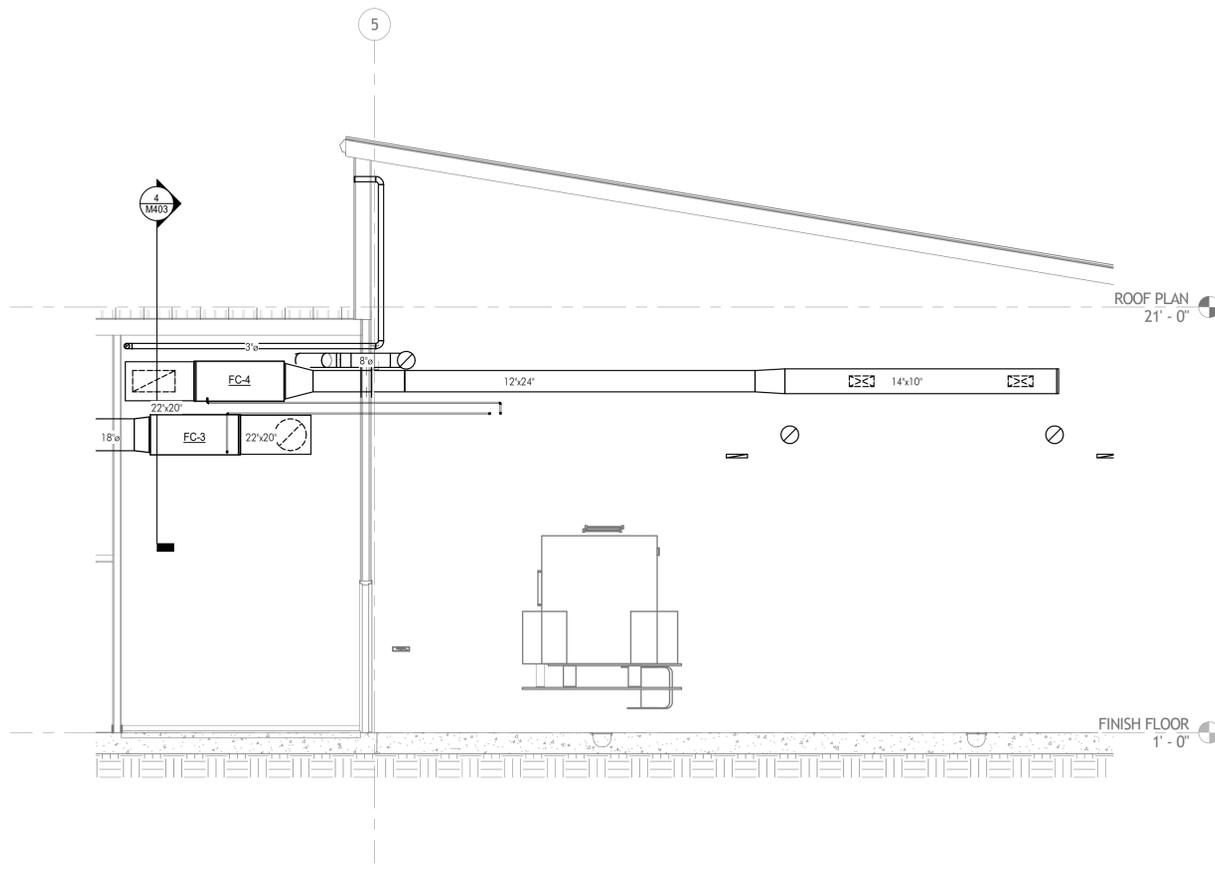
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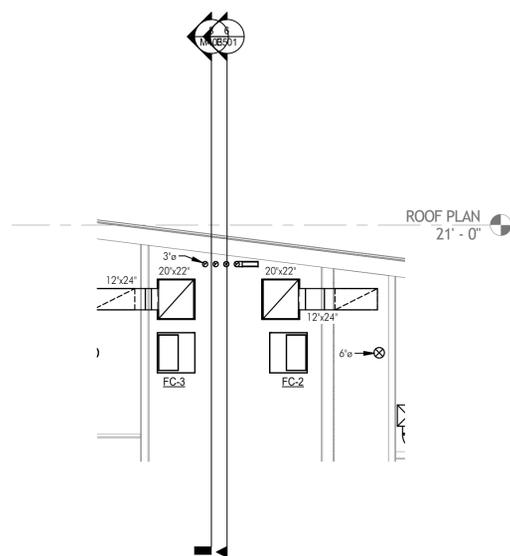
1 SECTION A-A
M403 1/4" = 1'-0"



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



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



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

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Revisions		
No.	Description	Date

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MECHANICAL SECTIONS

	project number	21238.00	drawing number	M403
	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

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PUMP SCHEDULE

MARK	FLOW (GPM)	HEAD (FT)	MOTOR (HP)	MOTOR (RPM)	VOLT (V)	PHASE (φ)	MFR	MODEL

GAS-FIRED WATER HEATER SCHEDULE

REMARKS:

-
-
-

MARK	TYPE	LOCATION	GPM	TEMP °F RISE	THERMAL EFFICIENCY	INPUT (MBH)	INTAKE	EXHAUST DIA. IN.	VOLTAGE (V)	PHASE (φ)	FREQUENCY (Hz)	MANUFACTURER	MODEL
GWH-1	TANKLESS	STORAGE '07	9.5	70	93%	199	3	3	120	1	60	AO SMITH	CT-199
GWH-2	TANKLESS	STORAGE '07	9.5	70	93%	199	3	3	120	1	60	AO SMITH	CT-199

GENERAL PLUMBING NOTES

- 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.
- 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.
- ALL PLUMBING WORK SHALL BE COMPLETE AND READY FOR SATISFACTORY SERVICE.
- 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.
- 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.
- PROTECTIVE SHIELD PIPE COVERS COMPLIANT 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.
- 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.
- ALL PLUMBING MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

PLUMBING SHEET INDEX

SHEET NUMBER	SHEET TITLE
P001	PLUMBING SYMBOLS, SCHEDULES, AND NOTES
P201	UNDERGROUND PLUMBING PLAN
P202	PLUMBING PLAN
P401	RISER DIAGRAMS - DOMESTIC WATER & NATURAL GAS DIAGRAM
P402	RISER DIAGRAMS - WASTE AND VENT
P500	DETAILS - PLUMBING
P501	DETAILS - PLUMBING

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
ADF	- 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
CFP	- 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 GAUGE
POC	- POINT OF CONNECTION
PRV	- PRESSURE REDUCING VALVE
PSI	- POUNDS PER SQUARE INCH
RD	- ROOF DRAIN
RP&P	- 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
	SANITARY VENT
	DOMESTIC COLD WATER (CW)
	120° DOMESTIC HOT WATER (HW)
	120° DOMESTIC HOT WATER RETURN (HWR)
	140° DOMESTIC HOT WATER
	140° DOMESTIC HOT WATER RETURN
	COMPRESSED AIR
	ACID VENT
	ACID WASTE
	GREASE WASTE
	DRAIN
	HIGH PRESSURE NATURAL GAS
	LOW PRESSURE NATURAL GAS
	STORM DRAIN
	LUBE OIL
	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
	WASTE AND VENT RISER NO.
	DOMESTIC WATER RISER NO.
	GATE VALVE
	GLOBE VALVE
	STRAINER
	CHECK VALVE
	BALL VALVE
	PLUG COCK OR VALVE
	TEMPERATURE-PRESSURE RELIEF VALVE
	HOSE BIBB
	FLOOR DRAIN (PLAN & ELEVATION)
	CLEANOUT (PLAN & ELEVATION)
	OPEN SIGHT DRAIN (PLAN & ELEVATION)
	DOWN SPOUT
	HOSE BIBB
	OPEN SIGHT DRAIN
	ROOF DRAIN
	VENT
	WASTE
	VENT THRU ROOF
	TRAP PRIMER
	CIRCUIT SETTER
	PLUMBING FIXTURE 120V TO 24V TRANSFORMER
	GAS PRESSURE REGULATING VALVE
	SOLENOID VALVE
	PRESSURE REGULATING VALVE

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Revisions		
No.	Description	Date

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 5739 HIGHWAY 18
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PLUMBING SYMBOLS, SCHEDULES, AND NOTES

	project number	21238.00	drawing number	P001
	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

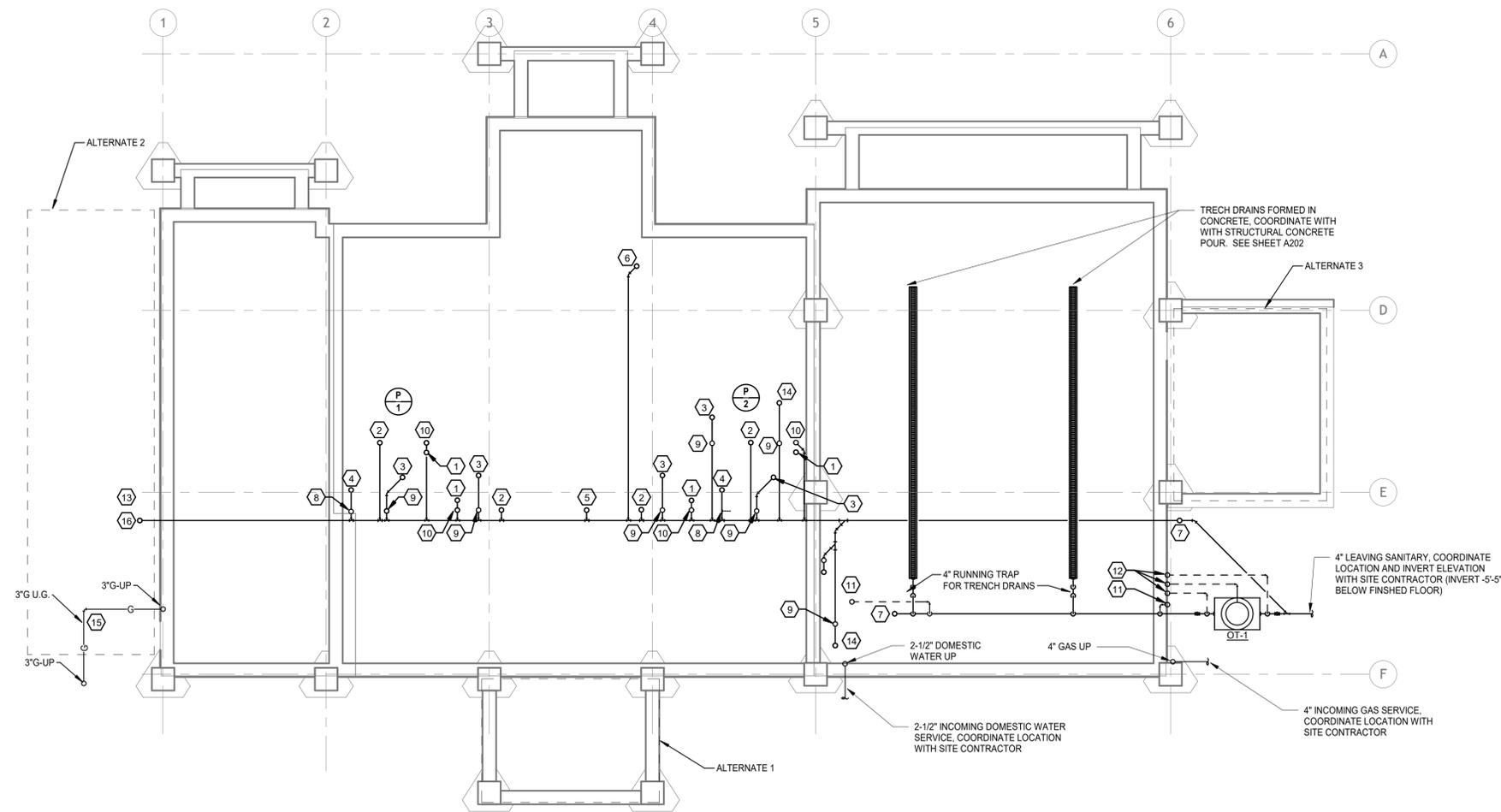
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SHEET GENERAL NOTES

1. ALTERNATE NO. 1: ALL PLUMBING WORK ASSOCIATED WITH THE COVERED PATIO ON THE SOUTH SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 1, UNLESS NOTED OTHERWISE.
2. ALTERNATE NO. 2: ALL PLUMBING WORK ASSOCIATED WITH MOBILE COMMAND CENTER PARKING ON WEST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 2, UNLESS NOTED OTHERWISE.
3. ALTERNATE NO. 3: ALL PLUMBING WORK ASSOCIATED WITH COVERED AMBULANCE BAY ON EAST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 3, UNLESS NOTED OTHERWISE.

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 FLOOR 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 CIRCUIT VENT FROM TRENCH DRAINS.
- 12 2" VENT FROM OIL INTERCEPTER.
- 13 PROVIDE 24"x24"x6" CONCRETE PAD AROUND GROUND CLEANOUT. WORK IS PART OF BASE BID AND NOT ALTERNATE.
- 14 4" SANITARY UP TO FLOOR DRAIN.
- 15 ALL WORK ASSOCIATED WITH NATURAL GAS LINE SHALL BE PART OF BASE BID AND NOT ALTERNATE.
- 16 4" SANITARY UP TO CLEANOUT. WORK IS PART OF BASE BID AND NOT ALTERNATE.



1 P201  UNDERGROUND PLUMBING PLAN
1/8" = 1'-0"

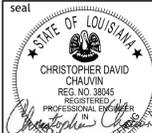
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UNDERGROUND PLUMBING PLAN

	project number	21238.00	drawing number P201
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

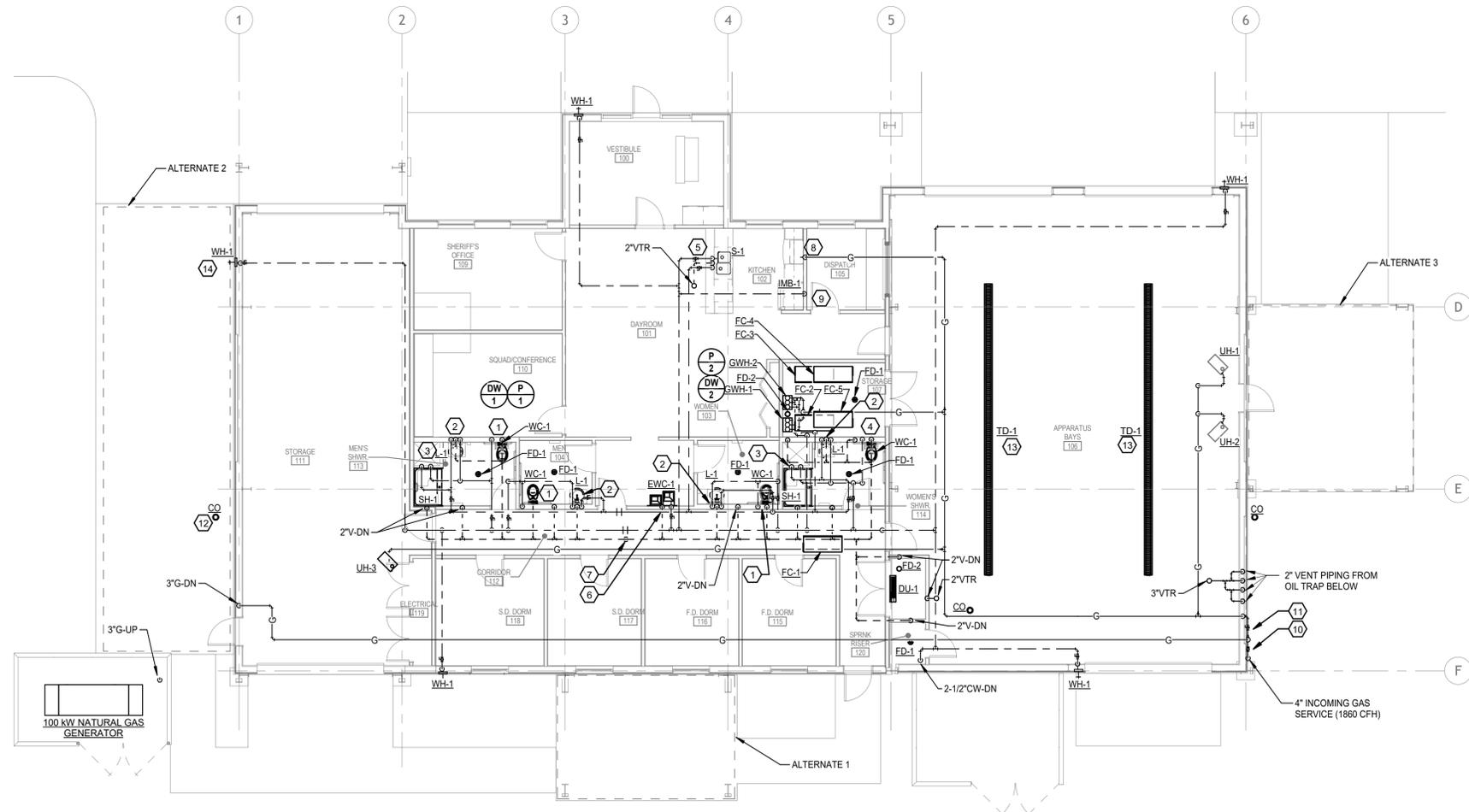
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SHEET GENERAL NOTES

1. ALTERNATE NO. 1: ALL PLUMBING WORK ASSOCIATED WITH THE COVERED PATIO ON THE SOUTH SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 1, UNLESS NOTED OTHERWISE.
2. ALTERNATE NO. 2: ALL PLUMBING WORK ASSOCIATED WITH MOBILE COMMAND CENTER PARKING ON WEST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 2, UNLESS NOTED OTHERWISE.
3. ALTERNATE NO. 3: ALL PLUMBING WORK ASSOCIATED WITH COVERED AMBULANCE BAY ON EAST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 3, UNLESS NOTED OTHERWISE.
4. GAS PIPING ABOVE CEILING SHALL BE PLENUM RATED PER INTERNATIONAL BUILDING CODE 2016 EDITION.
5. 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" SHUT-OFF VALVE WITH METAL PLACARD STATING "EMERGENCY GENERATOR GAS SUPPLY SHUT-OFF."
- 11 PROVIDE 1-1/2" SHUT-OFF VALVE WITH METAL PLACARD STATING "BUILDING SUPPLY SHUT-OFF."
- 12 PROVIDE 24"x24"x6" CONCRETE PAD AROUND GROUND CLEANOUT. WORK IS PART OF BASE BID AND NOT ALTERNATE.
- 13 COORDINATE FINAL WIDTH AND LENGTH WITH STRUCTURAL OPENING.
- 14 ALL WORK ASSOCIATED WITH WALL HYDRANT SHALL BE PART OF BASE BID AND NOT ALTERNATE.



1
P202  PLUMBING PLAN
1/8" = 1'-0"

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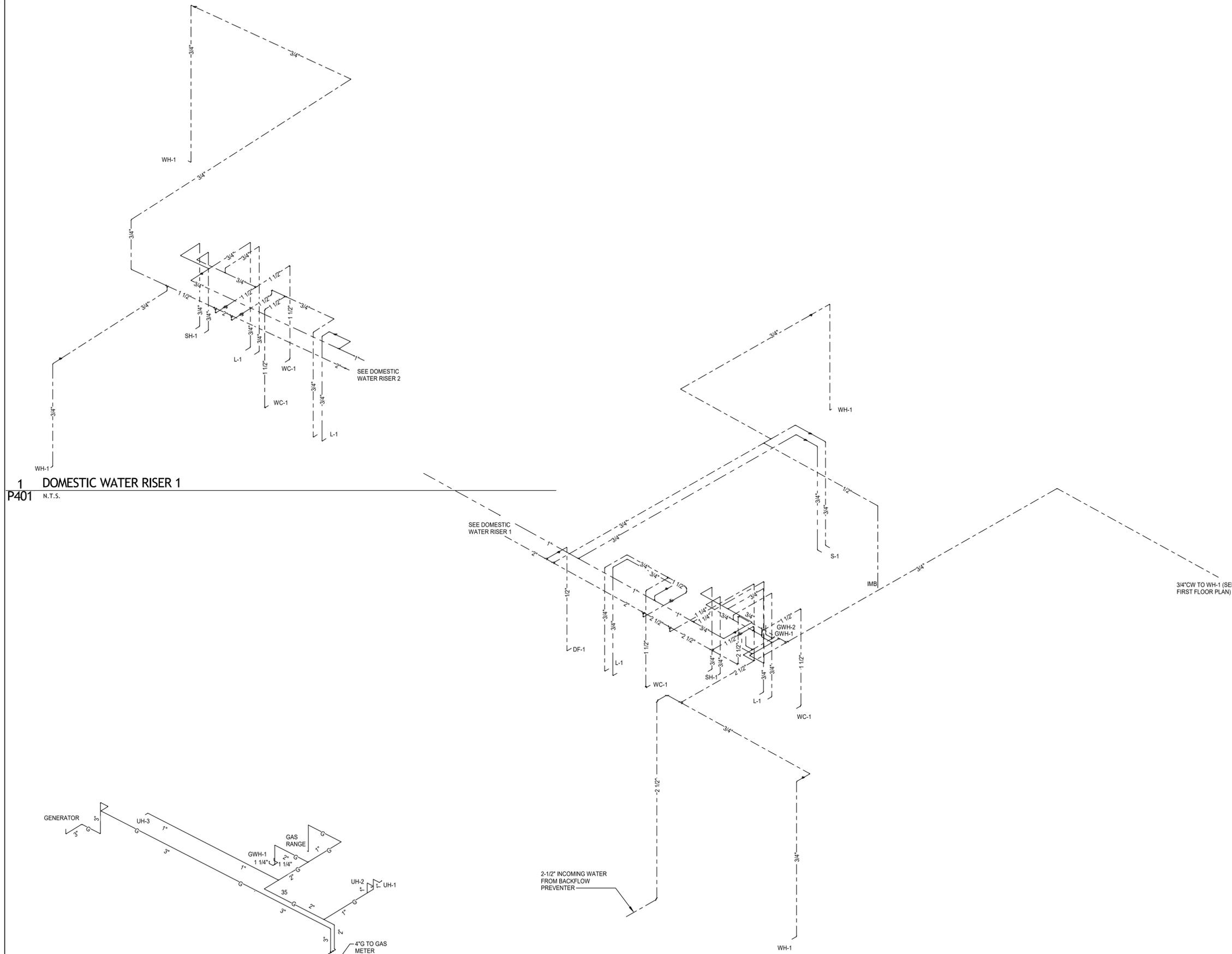
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PLUMBING PLAN

	project number	21238.00	drawing number P202
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

SHEET GENERAL NOTES

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2. ALTERNATE NO. 2: ALL PLUMBING WORK ASSOCIATED WITH MOBILE COMMAND CENTER PARKING ON WEST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 2, UNLESS NOTED OTHERWISE.
3. ALTERNATE NO. 3: ALL PLUMBING WORK ASSOCIATED WITH COVERED AMBULANCE BAY ON EAST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 3, UNLESS NOTED OTHERWISE.



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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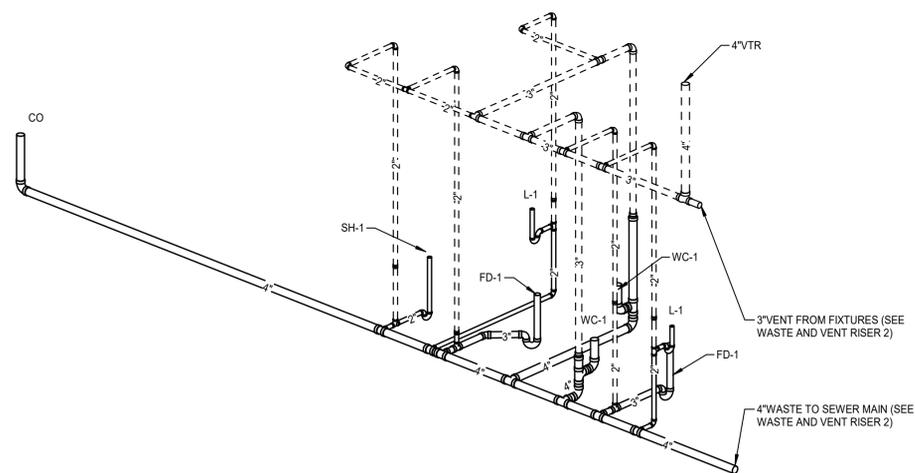
RISER DIAGRAMS - DOMESTIC WATER & NATURAL GAS DIAGRAM

	project number	21238.00	drawing number P401
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

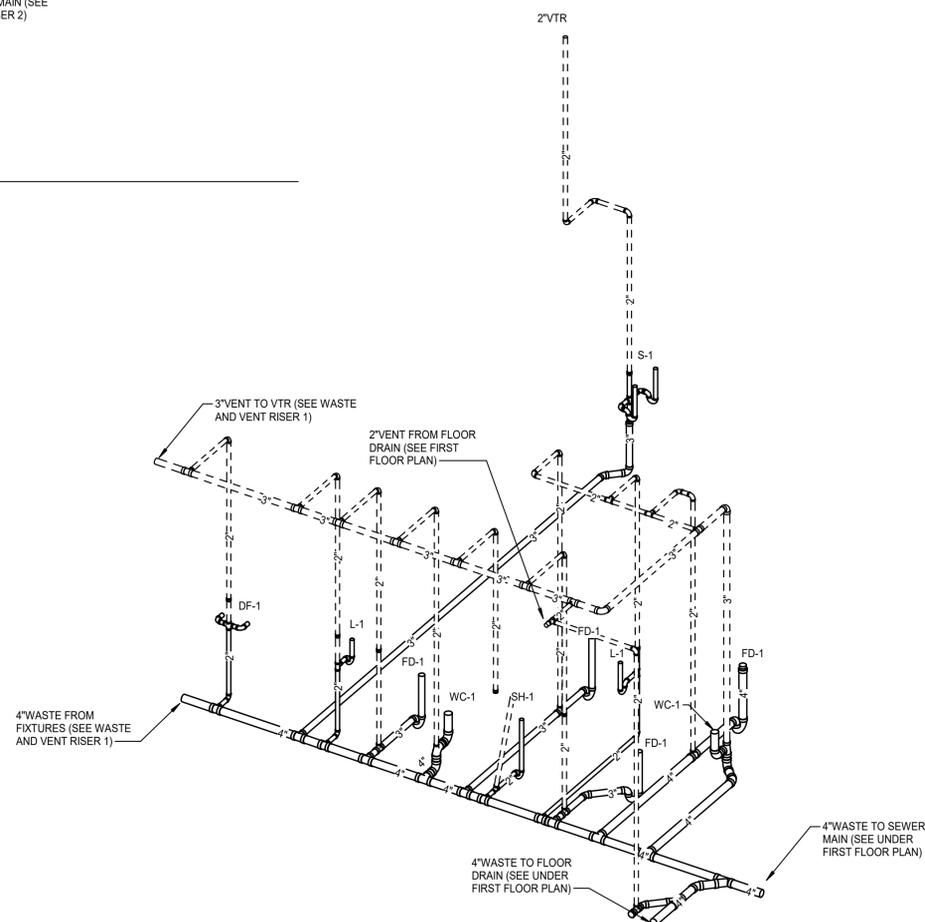
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SHEET GENERAL NOTES

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3. ALTERNATE NO.3: ALL PLUMBING WORK ASSOCIATED WITH COVERED AMBULANCE BAY ON EAST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 3, UNLESS NOTED OTHERWISE.



1
P402 WASTE & VENT RISER DIAGRAM 1



2
P402 WASTE & VENT RISER DIAGRAM 2

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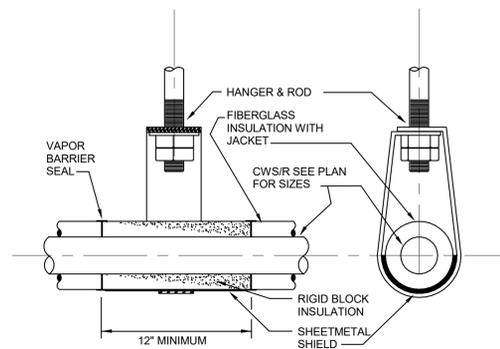
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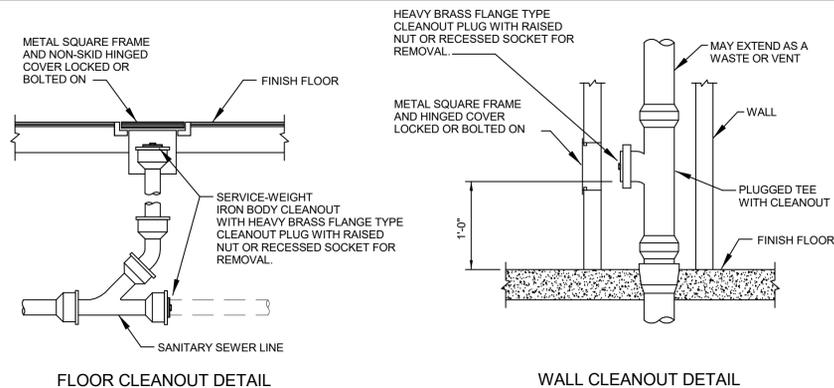
RISER DIAGRAMS - WASTE AND VENT

	project number	21238.00	drawing number
	date	MARCH 19, 2019	P402
	phase	BID DOCUMENTS	

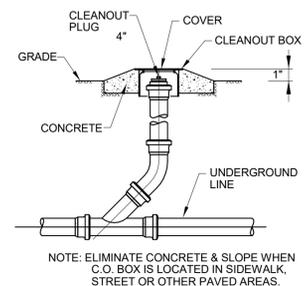
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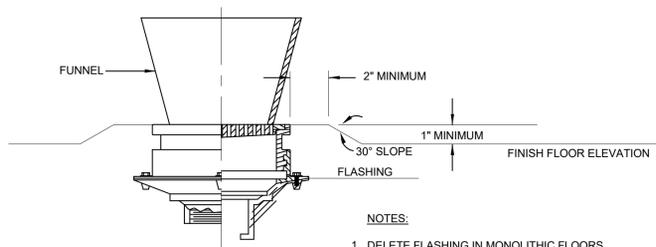
1 INSULATED PIPE HANGER
P500 N.T.S.



2 INTERIOR CLEANOUT
P500 N.T.S.

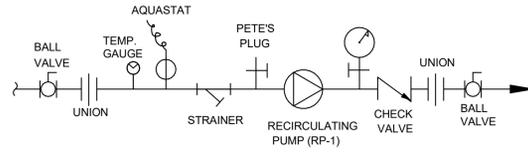


3 OUTDOOR CLEANOUT
P500 N.T.S.

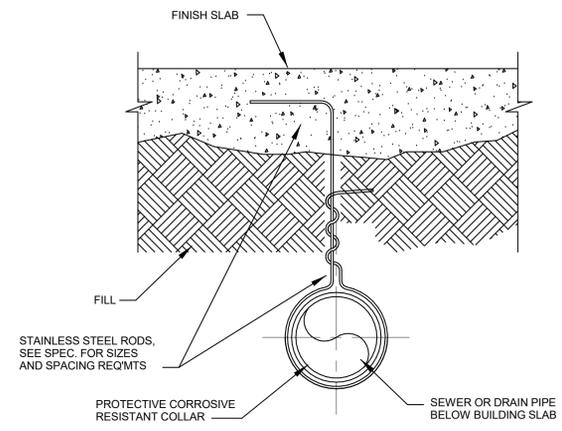


NOTES:
1. DELETE FLASHING IN MONOLITHIC FLOORS.
2. INSTALL FLASH WITH FINISH FLOOR IN MECHANICAL ROOMS.

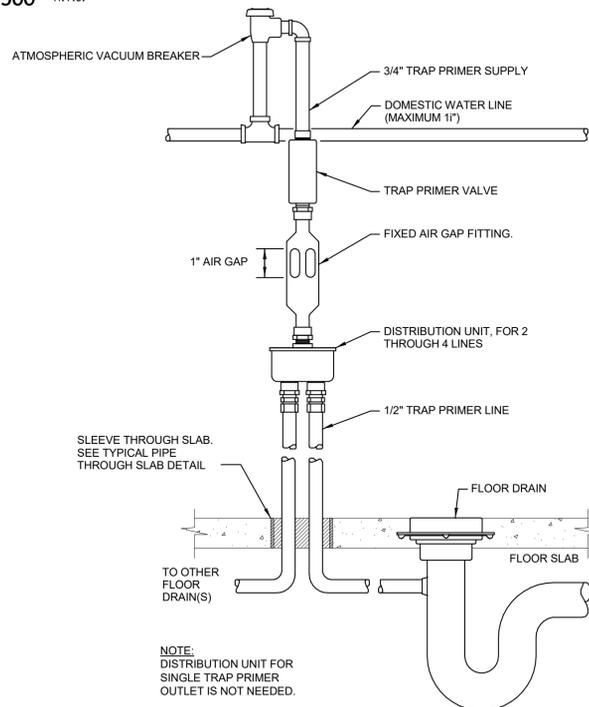
4 OPEN SITE DRAIN
P500 N.T.S.



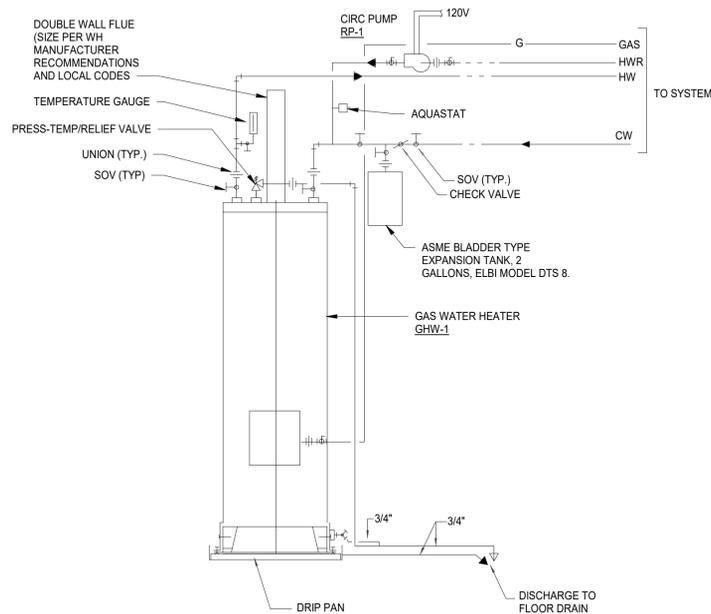
5 RECIRCULATING PUMP
P500 N.T.S.



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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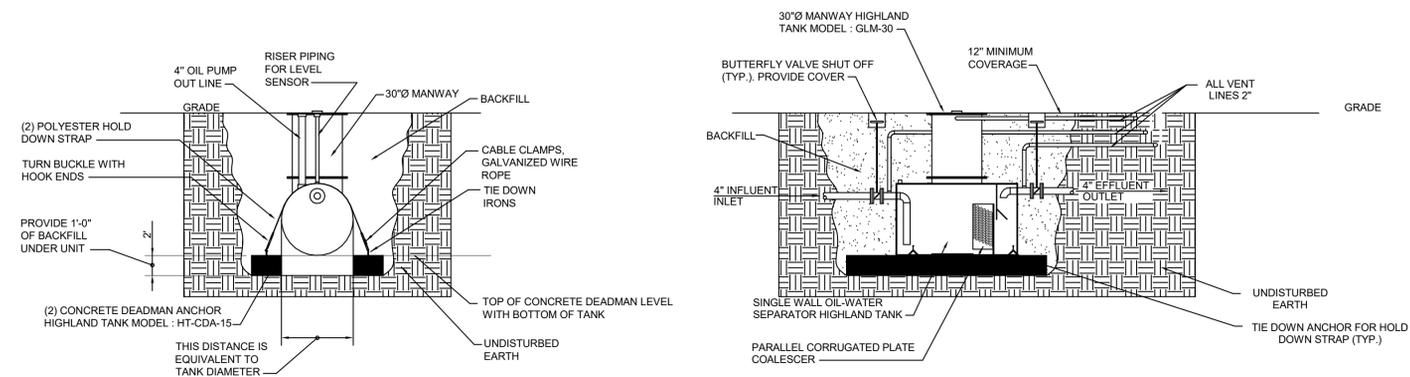
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DETAILS - PLUMBING

	project number	21238.00	drawing number P500
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

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NOTE:

1. BEDDING AND BACKFILL 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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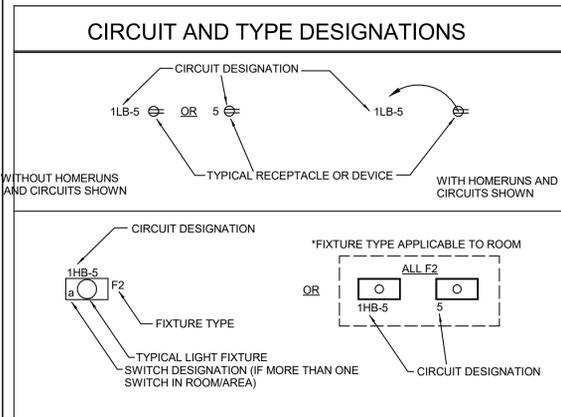
DETAILS - PLUMBING

	project number	21238.00	drawing number P501
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

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STANDARD ABBREVIATIONS		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 JURISDICTION	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	PH	PHASE
dB	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.



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 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
	PHOTOELECTRIC SWITCH
	DAYLIGHT DIMMING SENSOR
	MOTION DETECTING AUTOMATIC WALL SWITCH, SINGLE POLE
	MOTION DETECTING AUTOMATIC WALL SWITCH, DUAL RELAYS FOR SWITCHING TWO LOADS INDEPENDENTLY
	MOTION DETECTING AUTOMATIC WALL DIMMER SWITCH
	WALL MOUNTED MOTION SENSOR - LOW VOLTAGE W/ POWER PACK
	CEILING-CORNER MOUNTED MOTION SENSOR LOW VOLTAGE W/ POWER PACK
	CEILING MOUNTED MOTION SENSOR - LOW VOLTAGE W/ POWER PACK
	SINGLE POLE SNAP SWITCH
	MULTI-POLE LIGHTING CONTACTOR
	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
	PANELBOARD
	SPECIAL CABINET
	MULTI-OUTLET ASSEMBLY
	GROUND
	MOTOR
	COMBINATION MOTOR STARTER & DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER
	AUTOMATIC TRANSFER SWITCH
	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.)	
	JUNCTION BOX WITH COVER, MOUNTED ABOVE CEILING OR FLUSH IN FINISHED CEILING UNLESS INDICATED OTHERWISE. SIZE PER NEC
	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
	QUADRUPLEX RECEPTACLE 20A, 120V, GROUNDING TYPE
	QUADRUPLEX RECEPTACLE, 20A, 120V, GROUNDING TYPE, CEILING MOUNTED
	QUADRUPLEX 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
AV	ELECTRIC HAND DRYER
CR	AV SYSTEM JUNCTION BOX
DOOR	CORD REEL WITH RECEPT AS INDICATED DOOR ACCESS CONTROLLER
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	OVER-HEAD DOOR
TELECOMMUNICATIONS	
	DATA OUTLET - WALL MOUNTED
	VOICE/DATA OUTLET - WALL MOUNTED
	VOICE (TELEPHONE) OUTLET
	CEILING MOUNTED COMMUNICATIONS OUTLET
	FLOOR MOUNTED COMMUNICATIONS OUTLET
	WIRELESS ACCESS POINT, PROVIDE TWO RJ45 CONNECTIONS
	POWER/DATA POLE
	CABLE T.V. OUTLET
	TELECOMMUNICATIONS BACKBOARD
	NETWORK RACK
TELECOMMUNICATIONS OUTLET MODIFIERS	
#	PROVIDE QUANTITY OF RJ45 CONNECTIONS INDICATED BY #. DEFAULT OF (1) RJ-45 CONNECTION, REFER TO TELECOMMUNICATIONS OUTLET DETAILS
UC	UNDER COUNTER
AV	AV DATA OUTLET, DEFAULT OF (1) RJ-45 CONNECTION
AVI	AUDIO/VIDEO INPUT STATION
AVO	AUDIO/VIDEO OUTPUT STATION
AC	ABOVE COUNTER
C	FOR FUTURE CAMERA
FIRE ALARM	
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	MANUAL PULL STATION
	SMOKE DETECTOR
	WALL MOUNTED SMOKE DETECTOR
	THERMAL / HEAT DETECTOR
	WALL MOUNTED THERMAL / HEAT DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	CARBON MONOXIDE DETECTOR
	SMOKE DETECTOR WITH SOUNDER BASE - RESIDENTIAL USE
	SMOKE & CARBON MONOXIDE DETECTOR
	SMOKE & CARBON MONOXIDE DETECTOR WITH SOUNDER BASE

ELECTRICAL SYMBOLS (CONTINUED)

SYMBOL	DESCRIPTION
FIRE ALARM (CONT'D.)	
	AUDIBLE/VISUAL NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING), CANDELA OF STROBE, AS NOTED IN CD.
	VISUAL NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING), CANDELA OF STROBE, AS NOTED IN CD.
	AUDIO NOTIFICATION APPLIANCE (4" SQUARE BOX WITH 2-GANG RING).
	REMOTE INDICATOR
	MONITOR MODULE
	POST INDICATOR VALVE
	MAGNETIC DOOR HOLDER
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	CONTROL MODULE
	AREA OF REFUGE MASTER / REMOTE STATION
	EMERGENCY 2-WAY COMMUNICATION MASTER / REMOTE STATION
	GENERATOR REMOTE ANNUNCIATOR CONTROL PANEL
MISCELLANEOUS	
	CCTV CAMERA - CEILING MOUNT
	CCTV CAMERA - WALL MOUNT
	CCTV CAMERA - WALL MOUNT EXTERIOR
	INTRUSION SYSTEM MOTION DETECTOR, CEILING MOUNTED
	INTRUSION MOTION DETECTOR/PIR - CEILING CORNER/WALL MOUNT
	INTRUSION SYSTEM CONTROL KEYPAD
	INTRUSION SYSTEM GLASS BREAK DETECTOR
	INTRUSION DETECTION SYSTEM CONTROL PANEL
	DOOR ACCESS SYSTEM CARD READER
	DOOR CONTACT
	ELECTRIFIED DOOR STRIKE
	DOOR ACCESS SYSTEM MOTION SENSOR
	DOOR ACCESS SYSTEM PUSH BUTTON
	DOOR ACCESS SYSTEM CONTROL PANEL
	ADA AUTOMATIC DOOR OPENER PUSH BUTTON
	MOTORIZED OVERHEAD DOOR CONTROLLER CONSOLE
	MOTORIZED DOOR CONTROL SYSTEM NOTIFICATION STROBE
	EMERGENCY ALARM INITIATING DEVICE
	MAIN INTERCOM EQUIPMENT RACK
	CALL-IN SWITCH, PUSHBUTTON
	INTERCOM TELEPHONE OUTLET
	SOUND REINFORCEMENT SYSTEM CEILING RECESSED SPEAKER
	SOUND REINFORCEMENT SYSTEM WALL LOUDSPEAKER
	INTERCOM/PAGING SYSTEM SPEAKER CEILING RECESSED SPEAKER
	INTERCOM/PAGING SPEAKER SYSTEM WALL LOUDSPEAKER
	INTERCOM SPEAKER VOLUME CONTROL
	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
	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	MULTI-POLE HOMERUN, CONDUCTORS AS REQUIRED BY EQUIPMENT
	TICKS MARK: NUMBERS OF HOT WIRE AND ONE NEUTRAL

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Revisions		
No.	Description	Date

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

ELECTRICAL SYMBOLS

	project number	21238.00	drawing number	E001
	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

ELECTRICAL GENERAL NOTES

- 1. WORK PERFORMED SHALL AT A MINIMUM BE IN ACCORDANCE WITH THE LATEST APPLICABLE EDITION... THE NATIONAL ELECTRICAL CODE - NFPA 70 (NEC)...

ELECTRICAL GENERAL NOTES (CONT'D)

- 23. UPON DOCUMENTED APPROVAL OF THE ARCHITECT, MOUNTING HEIGHTS MAY BE ADJUSTED... 24. SIZING OF MOTOR-RELATED ELECTRICAL COMPONENTS, INCLUDING FEEDERS...

GENERAL NOTES - LIGHTING

- 1. ALL EXIT SIGNS SHALL BE ON UNSWITCHED "HOT" LEG SERVING THE AREA... 2. ALL EXIT SIGNS SHALL BE WALL MOUNTED, WHERE POSSIBLE...

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...

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...

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Table with 3 columns: No., Description, Date. Contains revision information.

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

ELECTRICAL NOTES seal project number 21238.00 date MARCH 19, 2019 phase BID DOCUMENTS drawing number E002

LIGHTNING PROTECTION GENERAL NOTES

- 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.
- THE LIGHTNING PROTECTION SYSTEM INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS, IN PARTICULAR:
 - UNDERWRITERS LABORATORIES STANDARD 96A,
 - NFPA 780, STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS
 - UL 96A, STANDARD FOR SAFETY INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEM
 - LIGHTNING PROTECTION INSTITUTE 175, STANDARD FOR THE DESIGN, INSTALLATION, INSPECTION OF LIGHTNING PROTECTION SYSTEMS
- IN GENERAL MOUNT AIR TERMINALS WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, AND RIDGE ENDS. AIR TERMINAL SHOULD PROJECT 10" ABOVE OBJECT PROTECTED.
- AIR TERMINALS SHALL BE SPACED NO MORE THAN 20'-0" ALONG THE ROOF PERIMETER.
- 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".
- 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.
- 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".
- CONNECTIONS TO GROUND ROD SHALL BE MADE AT A POINT NOT LESS THAN 1'-0" BELOW GRADE.
- 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.
- BOND ALL METALLIC PIPES INCLUDING DOMESTIC WATER, FIREWATER, GAS, SEWER, ETC. AT THE SERVICE ENTRANCE TO THE BUILDING, TO THE NEAREST DOWN LEAD.
- 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.
- 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.
- ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE ATTACHED WITH A MAXIMUM ATTACHMENT SPACING OF 36".
- 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.
- LIGHTNING ARRESTERS TO BE PROVIDED ON ELECTRICAL AND COMMUNICATION SYSTEMS SERVICE ENTRANCE EQUIPMENT.
- DOWN LEAD CONDUCTORS SHALL NOT BE LOCATED EXPOSED OR ON EXTERIOR OF BUILDING.

TELECOMMUNICATION GENERAL NOTES

- SEE IT SPECIFICATIONS FOR DETAILS OF THE IT INFRASTRUCTURE.
- WORK TO INCLUDE (BUT NOT BE LIMITED TO) ALL CABLING, TERMINATIONS, TESTING & CERTIFICATION, CABLE TRAY SYSTEM, IT ROOMS, COPPER AND FIBER CABLES.
- 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.
- 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.
- ALL PATCH PANELS & RACKS SHALL HAVE ENOUGH CAPACITY TO ALLOW FOR 50% FACTOR.
- RACKS & CABLE TRAY SYSTEMS SHALL BE MOUNTED IN ALL IT ROOMS AS SHOWN ON PLANS.
- 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.
- 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.
- 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.
- 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.
- ALL WIRELESS ACCESS POINT TERMINATIONS TO BE INSTALLED ABOVE CEILING WHERE POSSIBLE. COORDINATE WITH OWNER/ARCHITECT.
- ALL WIRELESS ACCESS POINTS (WAP'S) AND CAMERA LOCATIONS TO BE POWER OVER ETHERNET (POE).

SPECIAL SYSTEMS GENERAL NOTES

- 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.
- ROUTE ALL CABLING IN 3/4" EMT (MIN.) UNLESS STATED OTHERWISE.
- PROVIDE DEDICATED PATCH PANELS AND/OR DISTRIBUTION TERMINAL BLOCKS TO ESTABLISH CLEAR SEPARATION FROM OTHER SYSTEMS.
- 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	CEILING SURFACE	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	8LBLE-LD4-22-SYMM-UNV-L840-CD4-SCF-U	8' LED HIGHBAY STRIP LIGHT, WHITE PAINTED STEEL HOUSING, FROSTED LENS	SUSPENDED	174W	LED, 4000K
F8	METALUX	8LBLE-LD4-16-ASYM-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-FUJPL-UNV-L835-CD2-U	4' LED HIGHBAY, WHITE PAINTED STEEL HOUSING, FROSTED LENS, UPLIGHT	SUSPENDED	140W	LED, 4000K
F12	METALUX	4APVTD-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-3S-T1-WH	8' 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-3S-OF	8' x 3' WIDE LINEAR RECESSED FIXTURE, DRYWALL FLANGE TRIM, FROSTED LENS, 0-10V DIMMING DRIVER	CEILING RECESSED	64W	LED, 3500K
F17	METALUX	2BCLD-LD4-20SLK-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 FRMCS 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	SURFACE	3.3W PER FT	LED, 4000K
F22	TRACE LITE	TLED-NFL-78-VS-40K	MEDIUM WEDGE SHAPED, LOW-PROFILE WALL FIXTURE, CAST ALUMINUM CONSTRUCTION, DIRECT DISTRIBUTION	WALL SURFACE	80W	LED, 4000K, 7800 LUMENS
F23	LUMINAIRE LED	VPF44-40W-4000K-DIM-120-277-OP-[FINISH]-WET	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-T2	MCGRAW EDISON	GLEON-AE-05-LED-T2	LOW-PROFILE LED AREA/SITE LIGHT, 25 FT TAPERED STEEL POLE, T2 DISTRIBUTION	POLE	320W	LED, 4000K
F26	MCGRAW EDISON	GLEON-AE-05-LED-T3, GLEON-AE-05-LED-T3	DUAL LOW-PROFILE LED AREA/SITE LIGHT FIXTURES MOUNTED ON 180 DEGREES OPPOSITE ON 38 FT TAPERED STEEL POLE, T3 DISTRIBUTION (BOTH)	POLE	640W	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 EDGE/IT LED EXIT SIGN, BRUSHED ALUMINUM TRIM FINISH, NUMBER OF FACES AND DIRECTIONAL ARROWS AS PER DRAWINGS OR AS REQUIRED, UNIVERSAL MOUNTING, SELF-POWERED, GREEN LETTERING	WALL/CEILING SURFACE		GREEN LED
E1	EXITRONIX	NFT-W-G2	LED EMERGENCY LIGHT, TWO ADJUSTABLE HEADS, WHITE PLASTIC CONSTRUCTION	WALL/CEILING SURFACE	8W	LED
E2	EXITRONIX	CP-EMW		WALL/CEILING SURFACE	8W	LED
E3	EXITRONIX	MLED1	EMERGENCY REMOTE HEAD	WALL	4W	LED
F25-T4	MCGRAW EDISON	GLEON-AE-05-LED-T4FT	LOW-PROFILE LED AREA/SITE LIGHT, 25 FT TAPERED STEEL POLE, T4 FORWARD THROW DISTRIBUTION		320W	LED, 4000K

FOOTNOTES:

- COLOR TEMPERATURE OF ALL INTERIOR LIGHT FIXTURES SHALL BE 3500K, UNLESS INDICATED OTHERWISE.
- COLOR TEMPERATURE OF ALL EXTERIOR LIGHT FIXTURES SHALL BE 4000K, UNLESS INDICATED OTHERWISE. ARCHITECT TO VERIFY ALL FINISHES.
- ALL BALLASTS, DRIVERS, AND POWER SUPPLIES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE.
- 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 REGULAR TILE INSTALLATIONS, ETC. AS REQUIRED.
- 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
WESTBANK PUBLIC SAFETY COMPLEX
 5739 HIGHWAY 18
 EDGARD, LA 70049

ELECTRICAL NOTES AND SCHEDULES

	project number	21238.00	drawing number E003
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

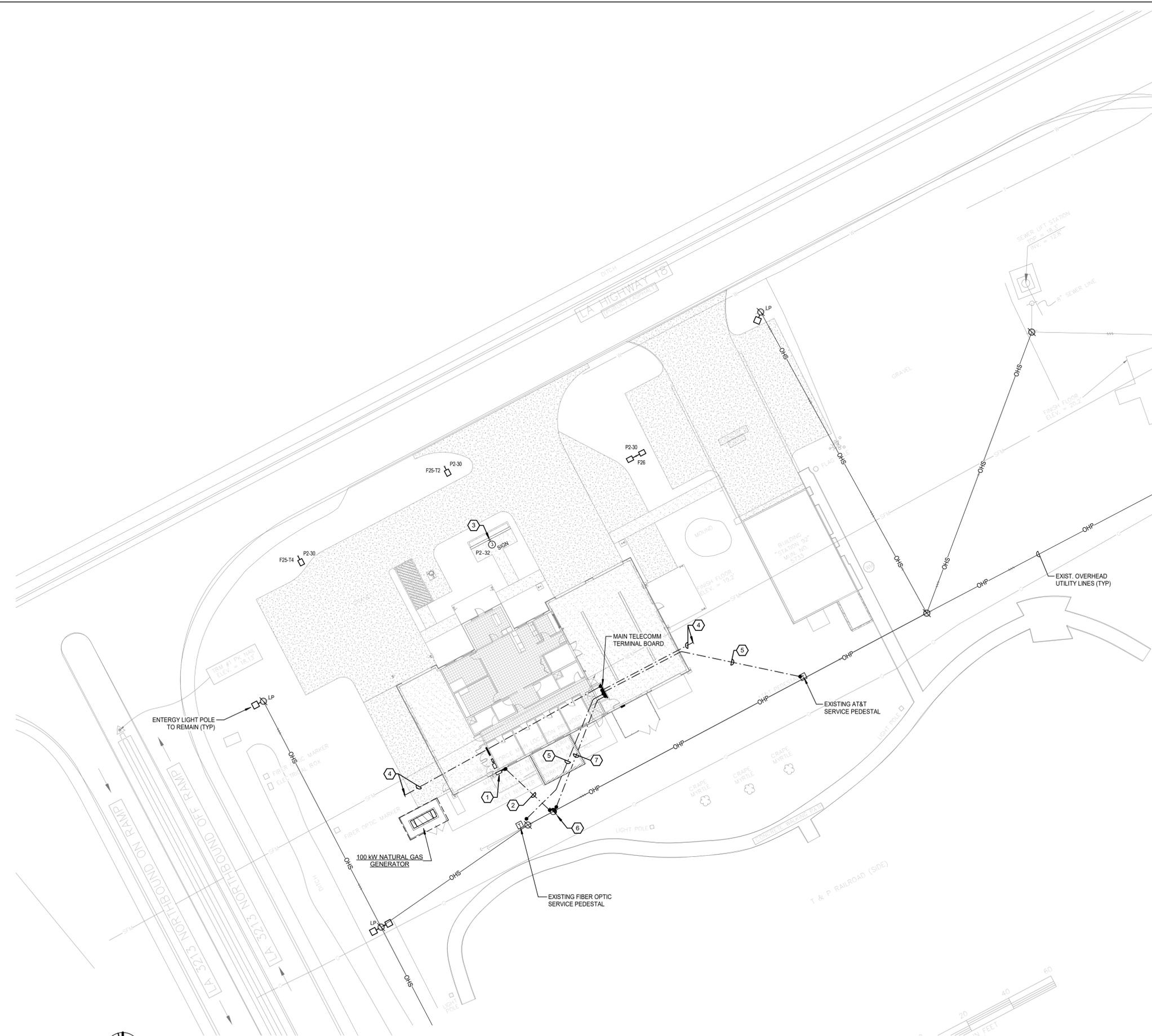
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SHEET GENERAL NOTES

- 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. CONDUIT 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.



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

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Revisions		
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ELECTRICAL SITE PLAN

	project number	21238.00	drawing number	E101
	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

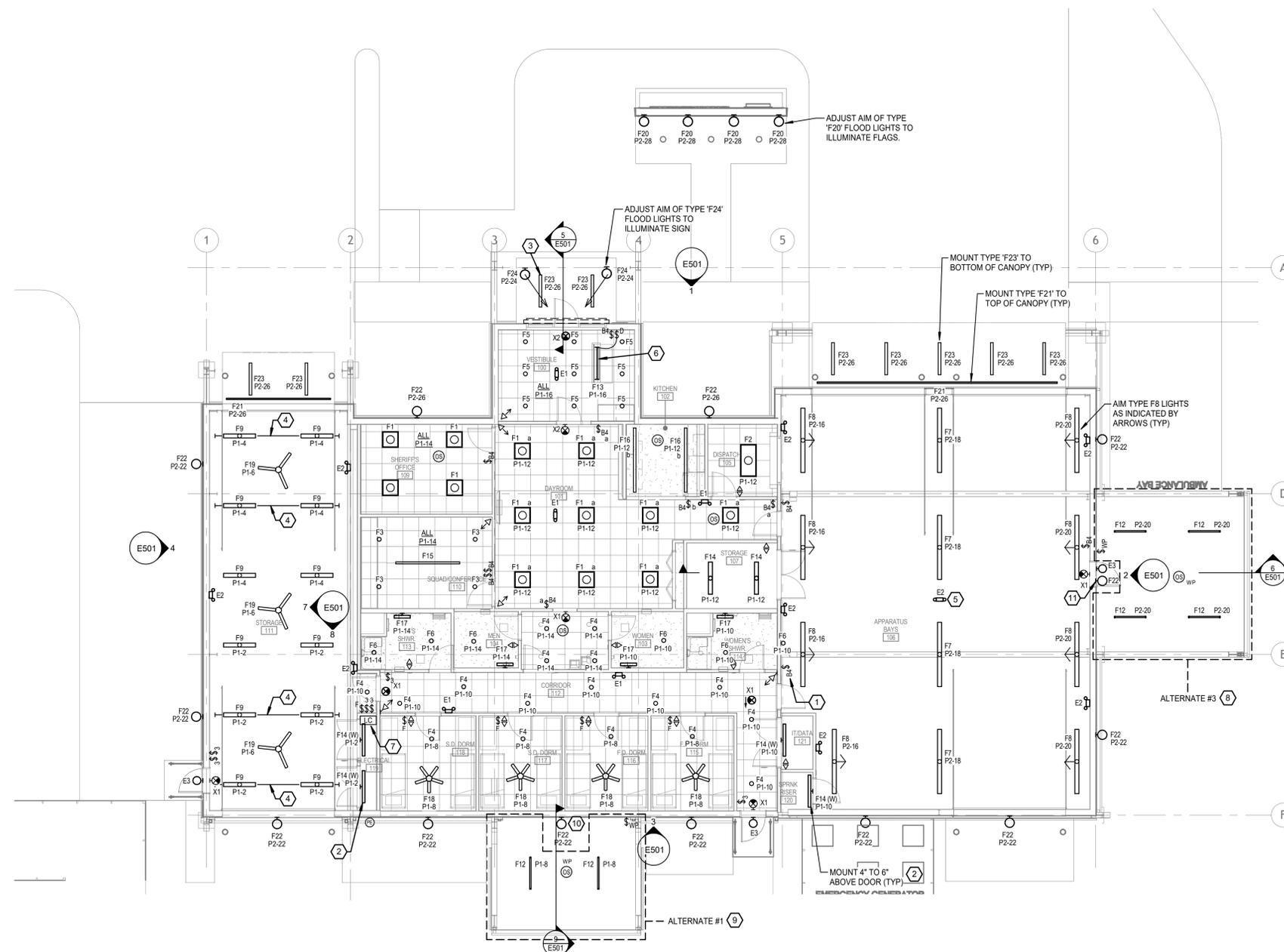
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SHEET GENERAL NOTES

- A. WALL SWITCHES SHOWN GROUPED SHALL BE INSTALLED IN MULTI-GANG BOXES WITH SINGLE FACEPLATE AS APPLICABLE.
- 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 CIRCUIT 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 OUTPUT, "LOW" - DIM TO 5% LIGHT OUTPUT, "OFF" - TURN LIGHTS OFF. PROVIDE LOAD CONTROLLER/RELAY PACKS AS REQUIRED. (TYPICAL)
- 2 PROVIDE 120V DOOR JAMB SWITCH (TORK TA502 OR APPROVED EQUAL) FOR CONTROL OF LIGHT FIXTURE IN CLOSET.
- 3 PROVIDE UL 924 RATED, 30W, 120V REMOTE, NICAD BATTERY EMERGENCY BACKUP POWER SUPPLY WITH TEST SWITCH FOR 'F23' FIXTURE THAT WILL PROVIDE 90 (MIN) RUN TIME UPON LOSS OF NORMAL POWER. INSTALL IN CEILING OF ADJACENT VESTIBULE.
- 4 MOUNT FIXTURES TO 16" (MIN) SPAN OF UNISTRUT SUSPENDED BELOW ROLLUP DOOR TRACK SYSTEM. UNISTRUT SHALL HAVE SUSPENSION POINTS ON EACH END ONLY TO CLEAR ROLLUP DOOR. SIZE STRUT AS REQUIRED TO SUPPORT WEIGHT.
- 5 SUSPEND EMERGENCY LIGHT(S) AS REQUIRED SUCH THAT THEY ARE EVEN WITH BOTTOM OF ADJACENT LIGHT FIXTURES.
- 6 UNDERCOUNTER LIGHT INSTALLED ON RECEPTIONIST DESK. COORD WITH ARCHITECT.
- 7 MULTIPOLE LIGHTING CONTACTOR AND TIMESWITCH FOR EXTERIOR LIGHTING CIRCUITS, ELECTRONICALLY OPERATED MECHANICALLY HELD, 120V COIL, NEMA 1 ENCLOSURE. SEE EXTERIOR LIGHTING CONTROL DIAGRAM.
- 8 (4) TYPE F12 FIXTURES MOUNTED TO CANOPY IN THIS AREA AND ALL ASSOCIATED ELECTRICAL (CONTROLS, CIRCUITS, ETC.) SHALL BE PROVIDED UNDER ALTERNATE #3.
- 9 (2) TYPE F12 FIXTURES MOUNTED TO CANOPY IN THIS AREA AND ALL ASSOCIATED ELECTRICAL (CONTROLS, CIRCUITS, ETC.) SHALL BE PROVIDED UNDER ALTERNATE #1.
- 10 PROVIDE F22 FIXTURE CONNECTED TO CIRCUIT 'P2-22' IF ALTERNATE #1 IS NOT TAKEN.
- 11 PROVIDE F22 FIXTURE CONNECTED TO CIRCUIT 'P2-22' IF ALTERNATE #3 IS NOT TAKEN.



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

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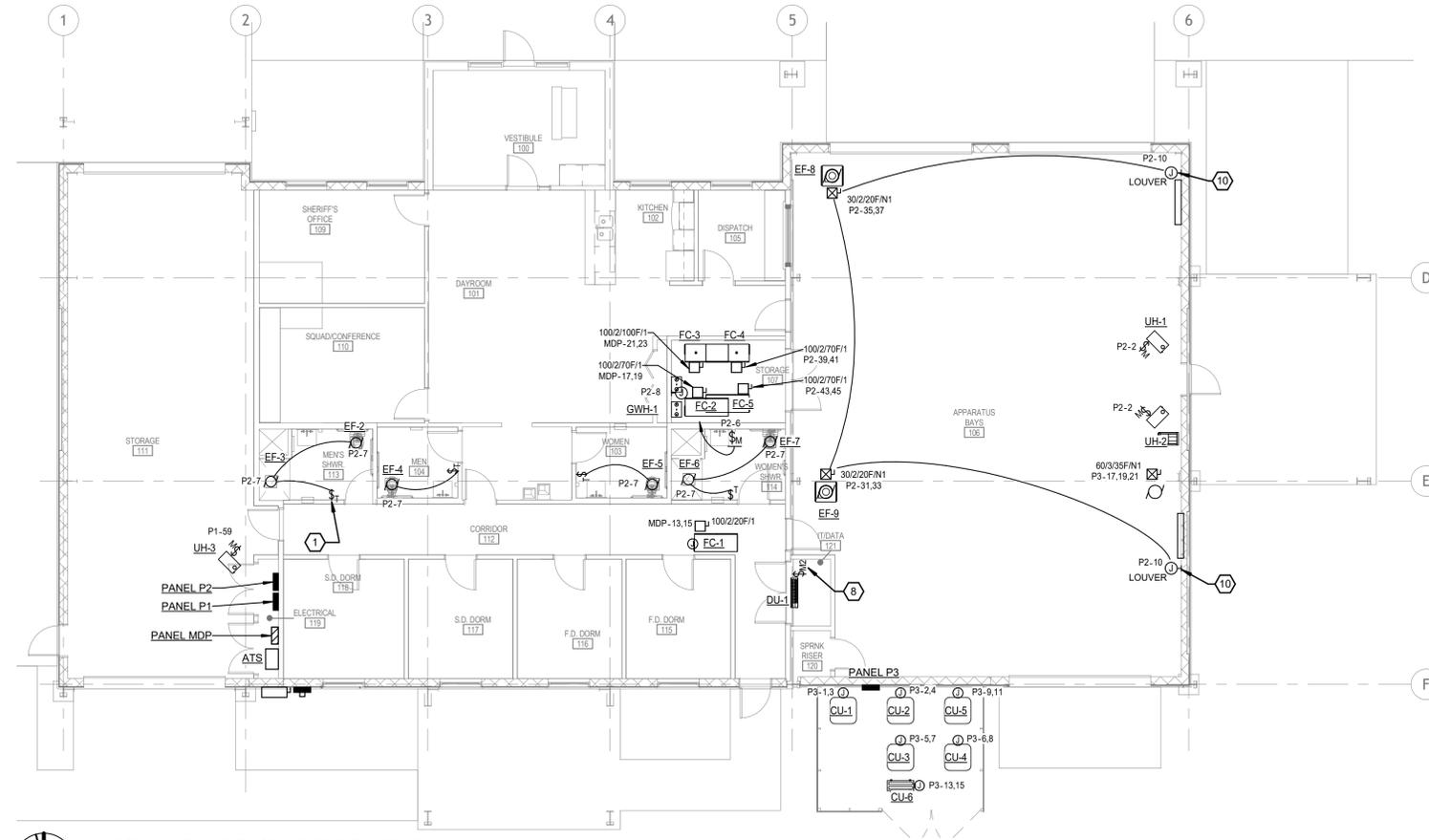
Revisions		
No.	Description	Date

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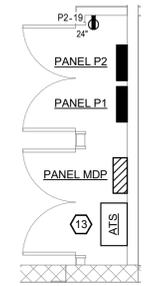
LIGHTING PLAN

	project number	21238.00	drawing number E201
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

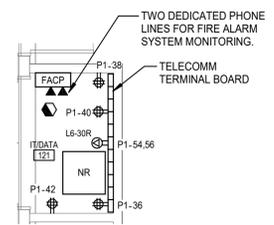
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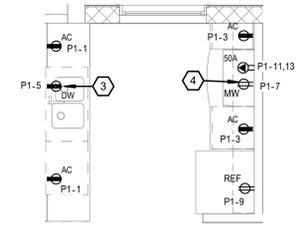
2 MECHANICAL EQUIPMENT POWER PLAN
E301 1/8" = 1'-0"



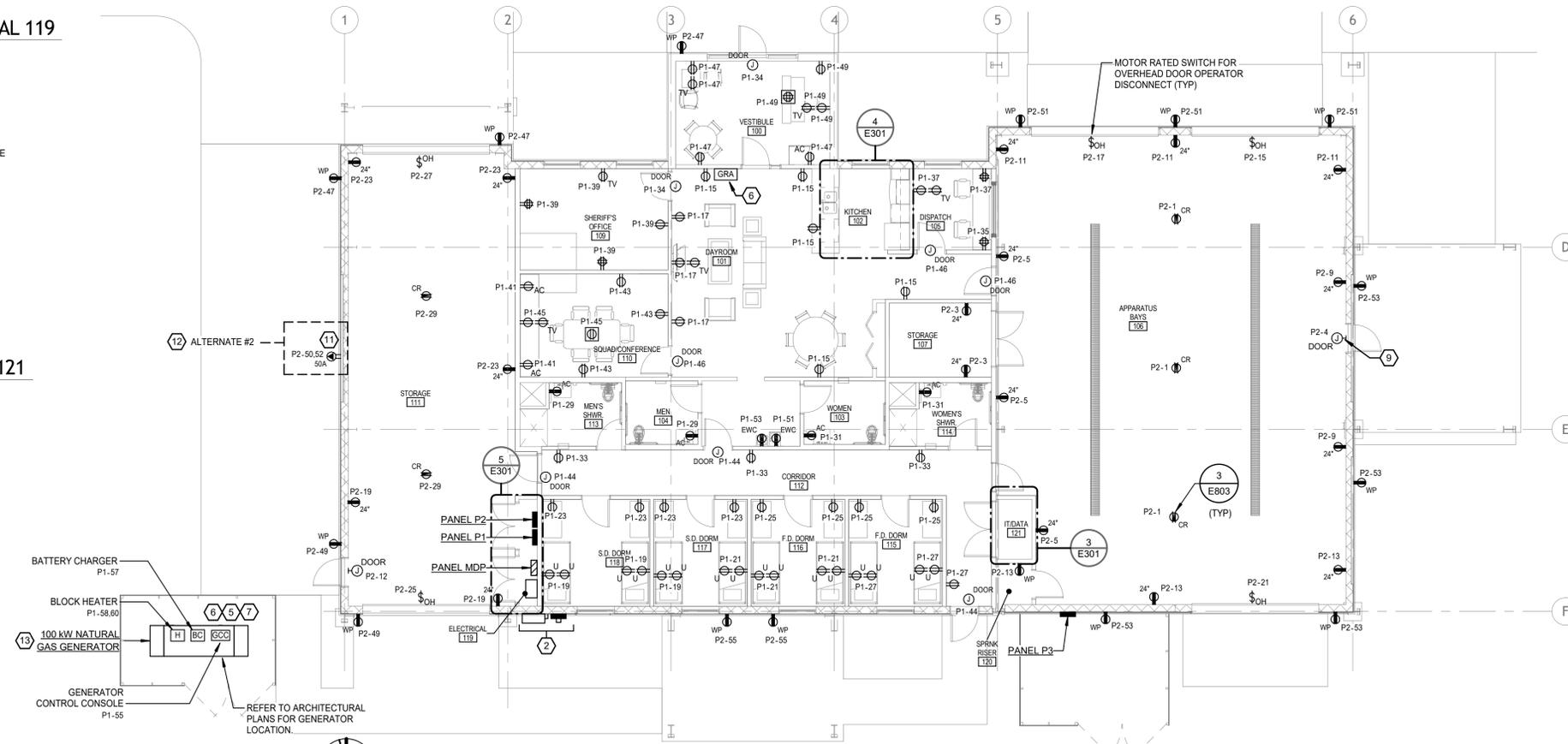
5 ENLARGED ELEC PLAN - ELECTRICAL 119
E301 1/4" = 1'-0"



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



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



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

SHEET REFERENCE NOTES

- 1 DIGITAL TIMED SWITCH FOR CONTROL OF EXHAUST FAN - WATTSTOPPER RT-100 OR APPROVED EQUAL (TYP).
- 2 ENERGY 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" CW WITH CABLES AS REQUIRED FROM GENERATOR TO REMOTE ANNUNCIATOR PANEL LOCATED IN VESTIBULE.
- 7 INSTALL TWO (2) 1" SPARE CONDUITS W/PULLCORD FROM GENERATOR CONTROL PANEL TO PANEL P1.
- 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.
- 11 50A, 125/250V, 3P, 4W TWISTLOCK RECEPTACLE. MARINE GRADE, CORROSION RESISTANT STAINLESS STEEL (HUBBELL HBL63CM69 OR APPROVED EQUAL) WITH WATERPROOF COVER PLATE (HUBBELL HBL774WO OR APPROVED EQUAL) AND CORD BOOT (HUBBELL HBL77CM16W OR APPROVED EQUAL).
- 12 MOBILE COMMAND CENTER RECEPTACLE AND ALL ASSOCIATED ELECTRICAL WORK (CIRCUIT, CIRCUIT BREAKER, ETC.) ARE TO BE PROVIDED UNDER ALTERNATE #3.
- 13 GENERATOR ASSEMBLY AND ASSOCIATED AUTOMATIC TRANSFER SWITCH ARE TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

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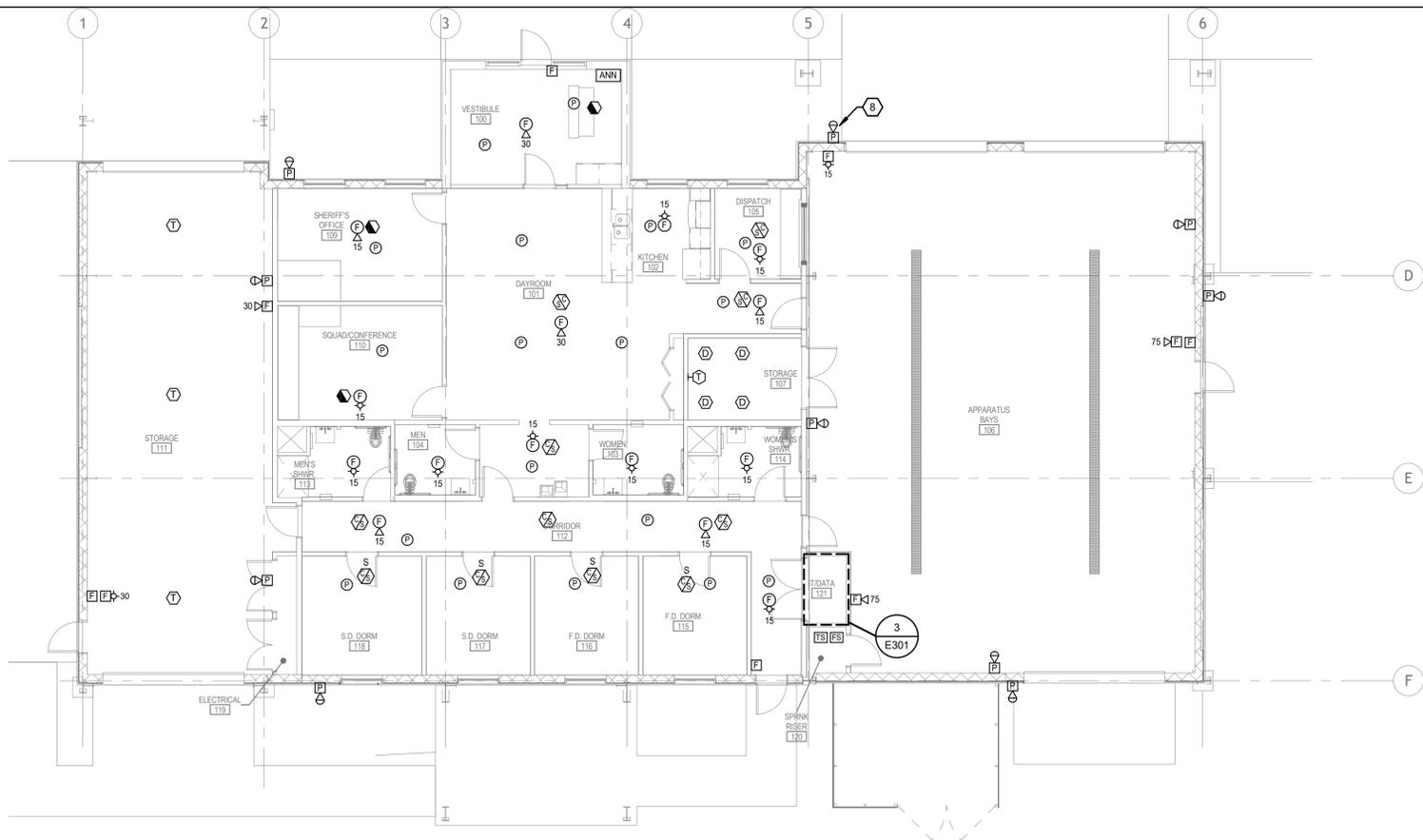
Revisions		
No.	Description	Date

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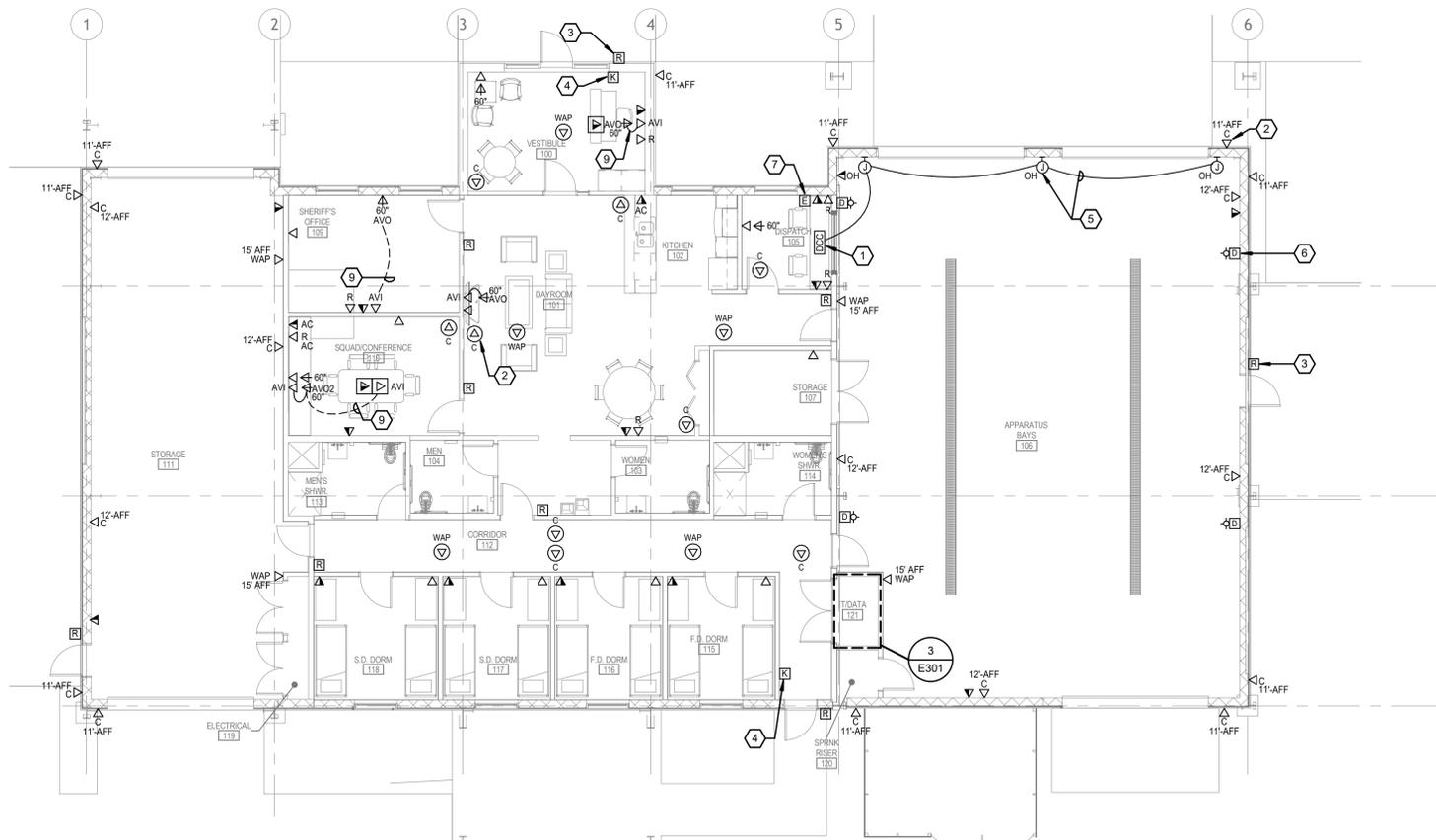
POWER PLANS

	project number	21238.00	<p style="font-size: 2em; font-weight: bold;">E301</p>
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

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3
E401 FIRE ALARM AND INTERCOM SYSTEM 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 OMNIPOINT 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 J-BOX AND DATA CABLES FOR FUTURE CCTV CAMERA: 4" SQUARE x 2" DEEP RECESSED FLUSH IN WALL/CEILING WITH TRIM RING AND BLANK COVERPLATE. RUN (1) CAT6 CABLE AND (1) ANALOG CAMERA CABLE FROM J-BOX TO MDF. COIL 12" (MIN) CABLE IN J-BOX. ANALOG CAMERA CABLE SHALL BE RG6 COAXIAL AND 2#18 AWG (SOLID COPPER) SIAMESE CABLE. PLENUM RATED. RG6 SHALL BE TERMINATED WITH 75 OHM TYPE BNC CONNECTORS ON BOTH ENDS. RUN CABLES IN 3/4" EMT IN EXPOSED AREAS TILL ABOVE ACCESSIBLE CEILINGS. SUPPORT CABLE VIA J-HOOKS ABOVE ACCESSIBLE CEILING. PROVIDE LABEL ON COVERPLATE READING, "CAMERA". MOUNTING HEIGHTS PER OWNER'S DIRECTION. TYPICAL FOR TYPE 'C' DATA OUTLETS.
- 3 J-BOX FOR FUTURE P ACCESS CONTROL SYSTEM CARD READER: 4" SQUARE x 2" DEEP RECESSED FLUSH IN WALL 48" AFF WITH TRIM RING AND BLANK COVERPLATE. RUN 3/4" C W/PULLCORD FROM BOX TO ABOVE NEAREST ACCESSIBLE CEILING. TERMINATE CONDUIT IN INSULATION BUSHING. (TYPICAL)
- 4 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)
- 5 PROVIDE CONTROL WIRING AS REQUIRED FROM DOOR CONTROLLER CONSOLE TO DOOR OPERATOR.
- 6 MOTORIZED ROLLUP DOOR SYSTEM STROBE. CONNECT TO DOOR ATTENDANT CONSOLE IN DISPATCH OFFICE AS REQUIRED. RUN CABLES IN 1/2" (MIN) EMT.
- 7 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.
- 8 PAGING SYSTEM WALL LOUDSPEAKER 12" AFF. COORDINATE MOUNTING AND LOCATION ON BUILDING FACADE WITH ARCHITECT PRIOR TO ROUGH-IN. (TYPICAL)
- 9 1-1/4" C WITH 4# CABLES INTERCONNECTING 'AV1' AND 'AV0' OUTLETS. SEE TELECOMMUNICATIONS OUTLET DETAIL ON SHEET E805.

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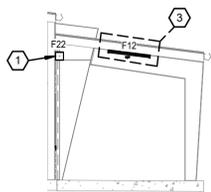
Revisions		
No.	Description	Date

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5739 HIGHWAY 18
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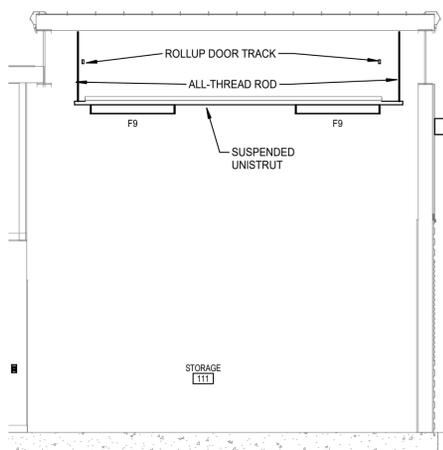
COMMUNICATIONS PLANS PLAN

	project number	21238.00	drawing number E401
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

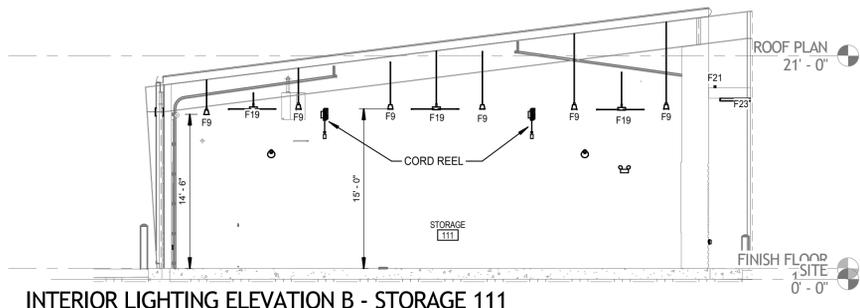
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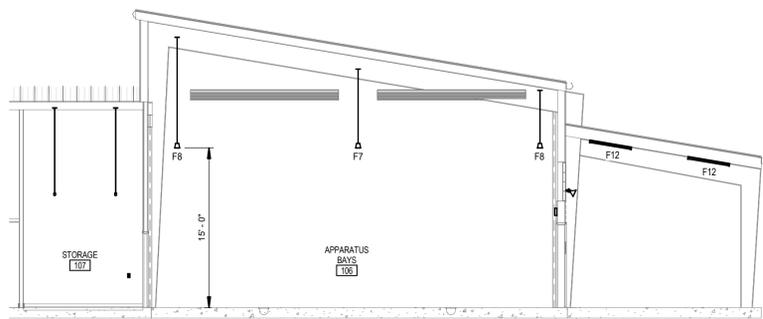
9 LIGHTING SECTION - REAR CANOPY
E501 1/8" = 1'-0"



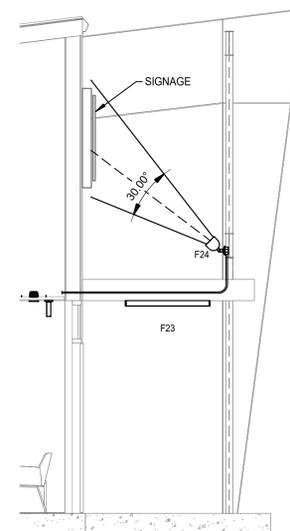
8 INTERIOR LIGHTING ELEVATION A - STORAGE 111
E501 1/4" = 1'-0"



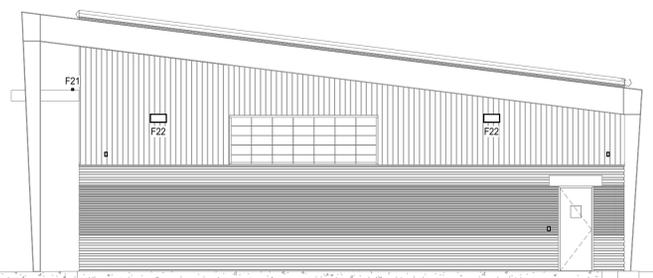
7 INTERIOR LIGHTING ELEVATION B - STORAGE 111
E501 1/8" = 1'-0"



6 INTERIOR LIGHTING SECTION - APPARATUS BAY
E501 1/8" = 1'-0"



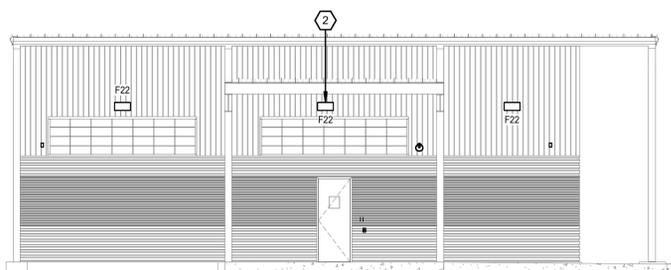
5 EXTERIOR LIGHTING SECTION - FRONT SIGN
E501 1/4" = 1'-0"



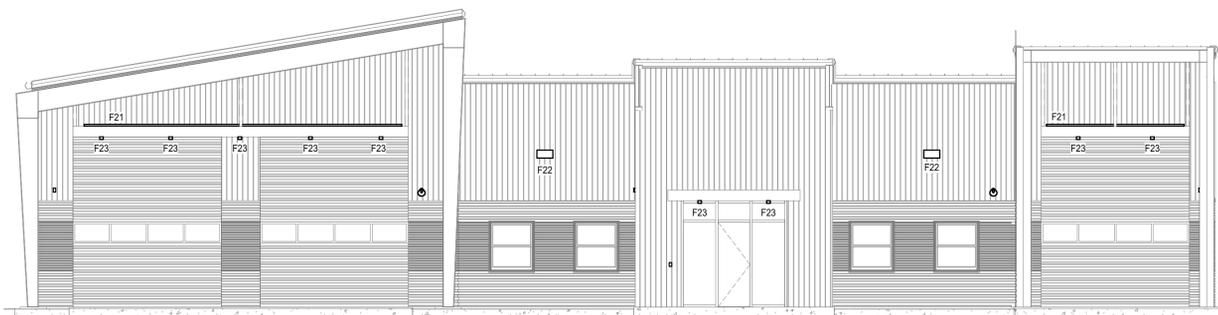
4 EXTERIOR LIGHTING ELEVATION - WEST
E501 1/8" = 1'-0"



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"

SHEET REFERENCE NOTES

- 1 PROVIDE F22 FIXTURE CONNECTED TO CIRCUIT 'P2-22' IF ALTERNATE #1 IS NOT TAKEN.
- 2 PROVIDE F22 FIXTURE CONNECTED TO CIRCUIT 'P2-22' IF ALTERNATE #3 IS NOT TAKEN.
- 3 (2) TYPE F12 FIXTURES MOUNTED TO CANOPY IN THIS AREA AND ALL ASSOCIATED ELECTRICAL (CONTROLS, CIRCUITS, ETC.) SHALL BE PROVIDED UNDER ALTERNATE #1.

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ELECTRICAL ENLARGED PLANS, SECTIONS, AND ELEVATIONS

	project number	21238.00	drawing number
	date	MARCH 19, 2019	E501
	phase	BID DOCUMENTS	

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 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	920			1	20 A	1-#12, 1-#12, 1-#12	2		
3	KITCHEN COUNTER RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1		360	840		1	20 A	1-#12, 1-#12, 1-#12	4		
5	DISHWASHER	1-#12, 1-#12, 1-#12	20 A	1			1200	300	1	20 A	1-#12, 1-#12, 1-#12	6		
7	MICROWAVE	1-#12, 1-#12, 1-#12	20 A	1	1200	548			1	20 A	1-#12, 1-#12, 1-#12	8		
9	REFRIGERATOR	1-#12, 1-#12, 1-#12	20 A	1		720	480		1	20 A	1-#12, 1-#12, 1-#12	10		
11	RANGE	2-#6, 1-#8, 1-#10	50 A	2				500	643	1	20 A	1-#10, 1-#10, 1-#10	12	
13					500	498				1	20 A	1-#12, 1-#12, 1-#12	14	
15	DAYROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1		900	170		1	20 A	1-#12, 1-#12, 1-#12	16		
17	DAYROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1				720	0	1	20 A	--	18	
19	DORM ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	900	0				1	20 A	--	20	
21	DORM ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1		1080	0			1	20 A	--	22	
23	DORM ROOM TV RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			720	0	1	20 A	--	24		
25	DORM ROOM TV RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	720	0				1	20 A	--	26	
27	DORM ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1		900	0			1	20 A	--	28	
29	MENS SHWR/RRR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1				360	0	1	20 A	--	30	
31	WOMENS SHWR/RRR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	360	0				1	20 A	--	32	
33	CORRIDOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1		540	200			1	20 A	1-#12, 1-#12, 1-#12	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	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	38	
39	SHERIFFS OFFICE RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1		1080	360			1	20 A	1-#12, 1-#12, 1-#12	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	42	
43	SQUAD/CONF ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	540	300				1	20 A	1-#12, 1-#12, 1-#12	44	
45	SQUAD/CONF ROOM RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1		540	300			1	20 A	1-#12, 1-#12, 1-#12	46	
47	VESTIBULE RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			720	0	--	--	--	PROVISIONS	48	
49	VESTIBULE RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	720	0			--	--	--	PROVISIONS	50	
51	WATER FOUNTAIN	1-#12, 1-#12, 1-#12	20 A	1		720	0			--	--	PROVISIONS	52	
53	WATER FOUNTAIN	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				2	30 A	GENERATOR BLOCK HEATER	56	
57	GENERATOR BATTERY CHARGER	1-#12, 1-#12, 1-#12	20 A	1		0	0			2	30 A	GENERATOR BLOCK HEATER	58	
59	UNIT HEATER UH-3	1-#12, 1-#12, 1-#12	20 A	1				180	0	--	--	--	60	
TOTAL LOAD (VA):					9896	9190	8753							
TOTAL CURRENT (A):					83	77	73							
TOTAL CONNECTED LOAD: 27839 VA										NOTES:				
TOTAL CONNECTED CURRENT: 77 A														
ESTIMATED DEMAND LOAD: 24844 VA														
ESTIMATED DEMAND CURRENT: 69 A														

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	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	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	6	
7	BATHROOM EXHAUST FANS	1-#12, 1-#12, 1-#12	20 A	1	600	300				1	20 A	1-#12, 1-#12, 1-#12	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	10	
11	APARATUS BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			540	120		1	20 A	1-#12, 1-#12, 1-#12	12	
13	APARATUS BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	540	0				1	20 A	--	14	
15	APARATUS BAY OH DOOR	1-#10, 1-#10, 1-#10	20 A	1		1176	508			1	20 A	1-#12, 1-#12, 1-#12	16	
17	APARATUS BAY OH DOOR	1-#10, 1-#10, 1-#10	20 A	1			1176	696		1	20 A	1-#12, 1-#12, 1-#12	18	
19	STORAGE BAY OH DOOR	1-#12, 1-#12, 1-#12	20 A	1	540	668				1	20 A	1-#10, 1-#10, 1-#10	20	
21	APARATUS BAY OH DOOR	1-#12, 1-#12, 1-#12	20 A	1		1176	880			1	20 A	1-#6, 1-#6, 1-#6	22	
23	STORAGE BAY RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			540	80		1	20 A	1-#12, 1-#12, 1-#12	24	
25	STORAGE BAY OH DOOR	1-#12, 1-#12, 1-#12	20 A	1	1176	705				1	20 A	1-#10, 1-#10, 1-#10	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	28	
29	STORAGE BAY CORD REELS	1-#12, 1-#12, 1-#12	20 A	1			720	1260		1	20 A	1-#4, 1-#4, 1-#4	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	32	
33						606	0			1	20 A	--	34	
35	EXHAUST FAN EF-8	2-#12, 1-#12, 1-#12	20 A	2			606	0		1	20 A	--	36	
37					606	0				1	20 A	--	38	
39	HVAC UNIT FC-4	2-#12, 1-#12, 1-#12	20 A	2			520	0		1	20 A	--	40	
41							520	0		1	20 A	--	42	
43	HVAC UNIT FC-5	2-#12, 1-#12, 1-#12	20 A	2	520	0				1	20 A	--	44	
45							520	0		1	20 A	--	46	
47	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			540	0		1	20 A	--	48	
49	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	360	2500				2	50 A	2-#8, 1-#8, 1-#10	50	
51	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			540	2500				MOBILE COMMAND CENTER RECEPT	52	
53	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1			720	0		2	20 A	--	54	
55	EXTERIOR RECEPTACLES	1-#12, 1-#12, 1-#12	20 A	1	360	0				2	30 A	--	56	
57	SPARE				0	0				2	30 A	--	58	
59	SPARE				0	0				2	30 A	--	60	
TOTAL LOAD (VA):					10734	11087	8043							
TOTAL CURRENT (A):					93	96	67							
TOTAL CONNECTED LOAD: 29845 VA										NOTES:				
TOTAL CONNECTED CURRENT: 83 A														
ESTIMATED DEMAND LOAD: 24821 VA														
ESTIMATED DEMAND CURRENT: 65 A														

PANEL MDP

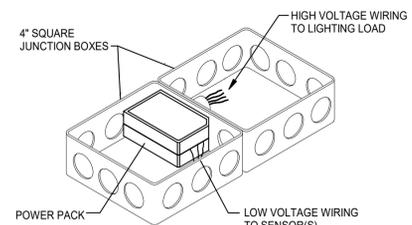
LOCATION: ELECTRICAL 119 SUPPLY SOURCE: UTILITY METER VOLTAGE: 120/208 Wye BUS: 400 A MAINS RATING: 400 A MAINS TYPE: MLO		BRANCHES: BOLT-ON POLES: 30 MOUNTING: Surface ENCLOSURE: NEMA 1 ACCESSORIE...		SHUNT TRIP MAIN CB SERVICE ENTRANCE RATED UL LISTED FEED-THROUGH LUGS UL LISTED SUB-FEED LUGS ISOLATED 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	9896	10734					PANELS P2	2		
3						9190	11087					4		
5							8753	8043				6		
7	PROVISION (200A FRAME)		200 A	3	0	12230			3	225 A	3-#4/0, 1-#4/0, 1-#4	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):					43359	42652	38968							
TOTAL CURRENT (A):					366	360	325							
TOTAL CONNECTED LOAD: 124976 VA										NOTES:				
TOTAL CONNECTED CURRENT: 347 A														
ESTIMATED DEMAND LOAD: 112539 VA														
ESTIMATED DEMAND CURRENT: 312 A														

PANEL P3

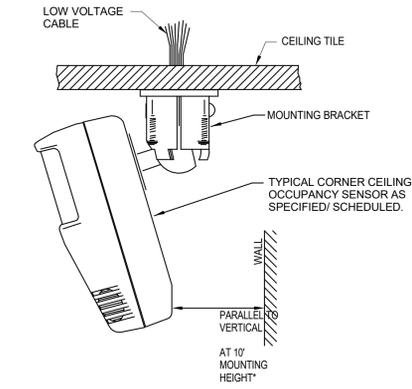
LOCATION: ELECTRICAL 119 SUPPLY SOURCE: MDP VOLTAGE: 120/208 Wye BUS: 225 A MAINS RATING: 225 A MAINS TYPE: MLO		BRANCHES: BOLT-ON POLES: 24 MOUNTING: Surface ENCLOSURE: NEMA 3R ACCESSORIE...		SHUNT TRIP MAIN CB SERVICE ENTRANCE RATED UL LISTED FEED-THROUGH LUGS UL LISTED SUB-FEED LUGS ISOLATED GROUND 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	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	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	APARATUS BAY EXHAUST FAN EF-10	3-#8, 1-#8, 1-#10	35 A	3			0	0				PROVISIONS	18
19							0	0					

GENERAL NOTES - OCC / VAC SENSORS

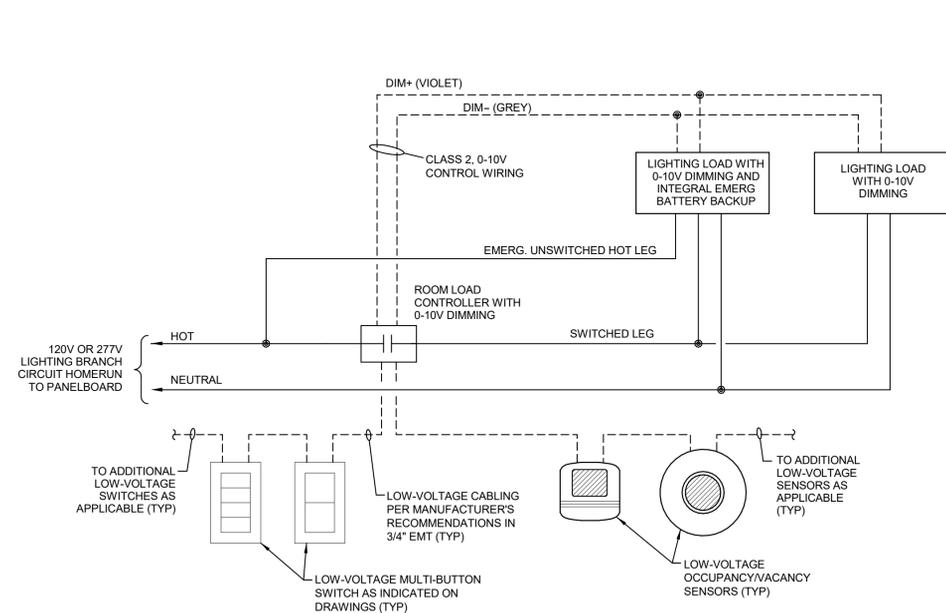
1. ALL SENSOR LOCATIONS ARE APPROXIMATE REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PRIOR TO INSTALLATION.
2. SENSOR COVERAGE AREAS AND PATTERNS VARY BY MANUFACTURER. CONTRACTOR SHALL VERIFY SENSOR LAYOUT WITH CHOSEN MANUFACTURER'S COVERAGE PATTERNS PRIOR TO INSTALLATION.
3. ADJUST SENSOR LOCATIONS 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.



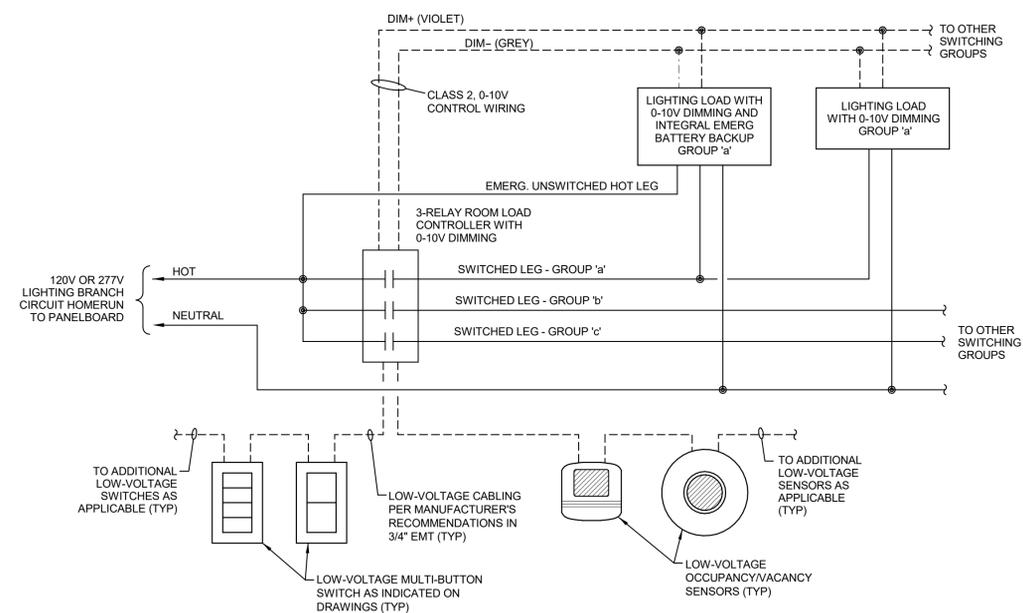
1 OCCUPANCY SENSOR POWER PACK DETAIL
E801 N.T.S.



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



SINGLE-RELAY ROOM CONTROLLER



MULTI-RELAY ROOM CONTROLLER

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

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

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

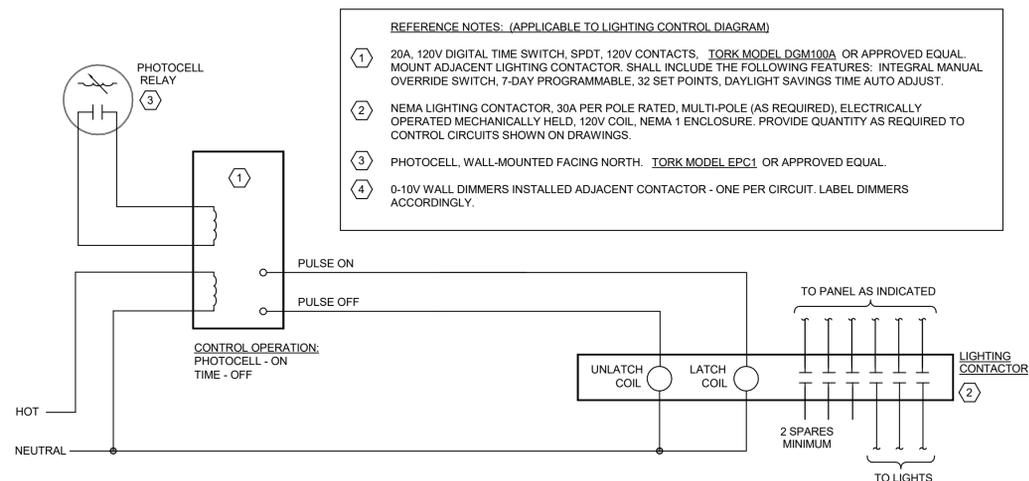
Revisions		
No.	Description	Date

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

ELECTRICAL DETAILS

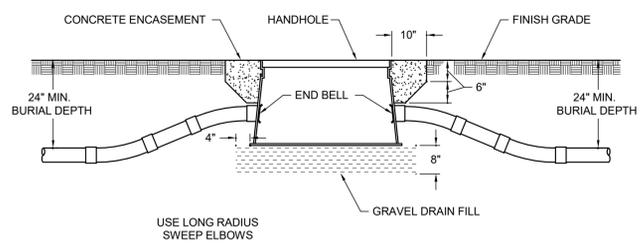
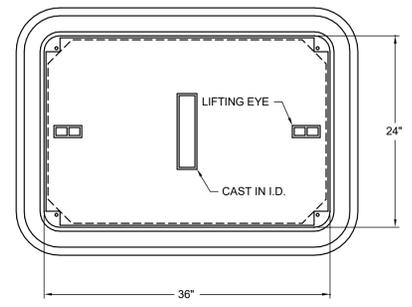
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	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

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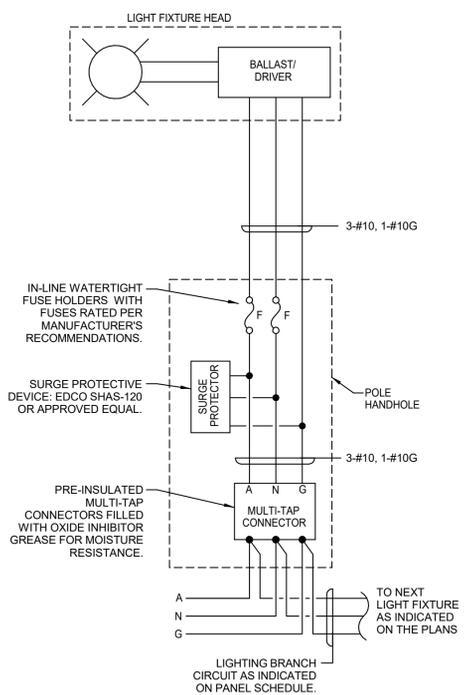


- REFERENCE NOTES: (APPLICABLE TO LIGHTING CONTROL DIAGRAM)**
- ① 20A, 120V DIGITAL TIME SWITCH, SPDT, 120V CONTACTS. TORQ MODEL DGM100A OR APPROVED EQUAL. MOUNT ADJACENT LIGHTING CONTACTOR. SHALL INCLUDE THE FOLLOWING FEATURES: INTEGRAL MANUAL OVERRIDE SWITCH, 7-DAY PROGRAMMABLE, 32 SET POINTS, DAYLIGHT SAVINGS TIME AUTO ADJUST.
 - ② NEMA LIGHTING CONTACTOR, 30A PER POLE RATED, MULTI-POLE (AS REQUIRED), ELECTRICALLY OPERATED MECHANICALLY HELD, 120V COIL, NEMA 1 ENCLOSURE. PROVIDE QUANTITY AS REQUIRED TO CONTROL CIRCUITS SHOWN ON DRAWINGS.
 - ③ PHOTOCELL, WALL-MOUNTED FACING NORTH. TORQ MODEL EPC1 OR APPROVED EQUAL.
 - ④ 0-10V WALL DIMMERS INSTALLED ADJACENT CONTACTOR - ONE PER CIRCUIT. LABEL DIMMERS ACCORDINGLY.

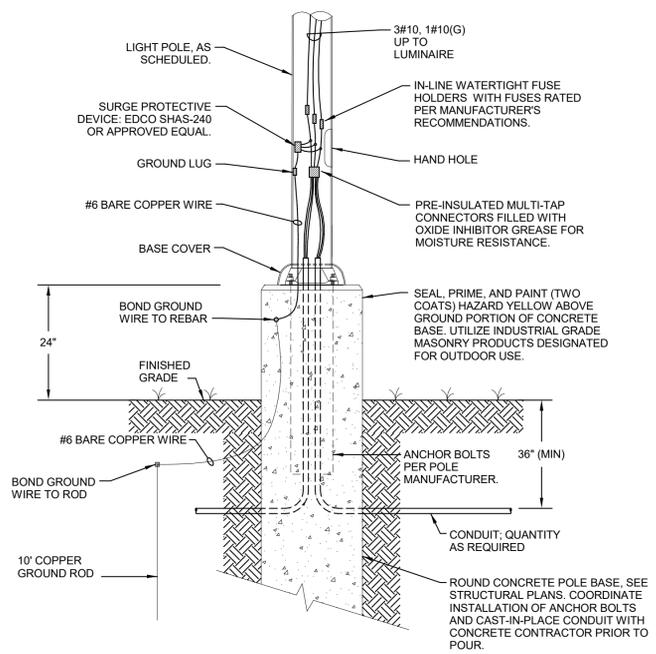
1 LIGHTING CONTROL SCHEMATIC - EXTERIOR LIGHTING
E802 N.T.S.



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.

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

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

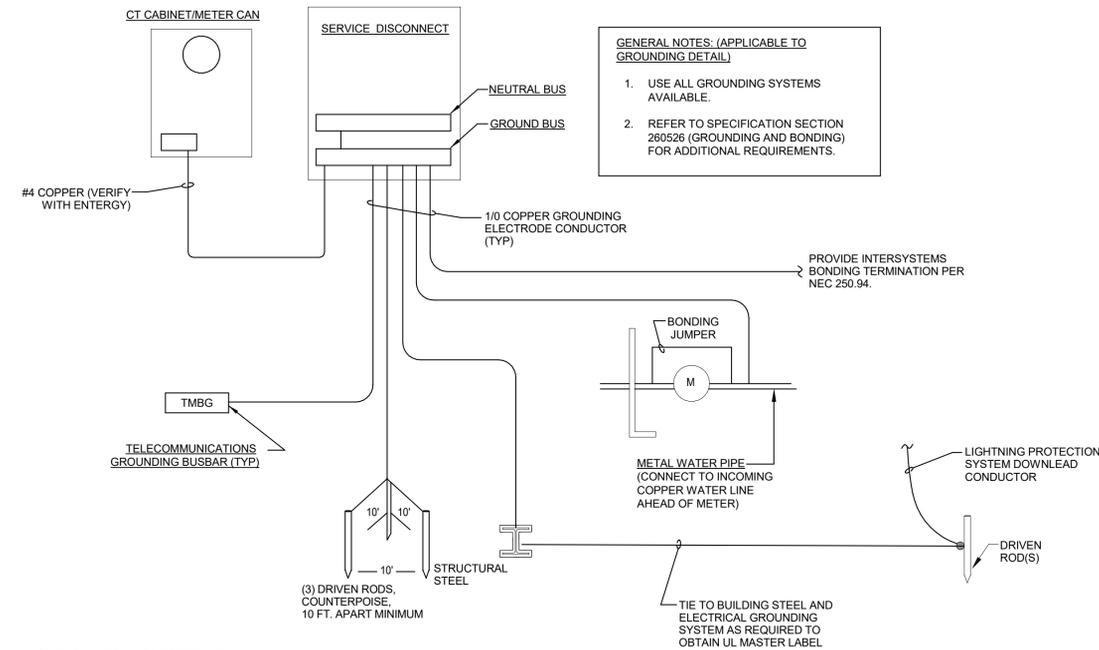
Revisions		
No.	Description	Date

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WESTBANK PUBLIC SAFETY COMPLEX
5739 HIGHWAY 18
EDGARD, LA 70049

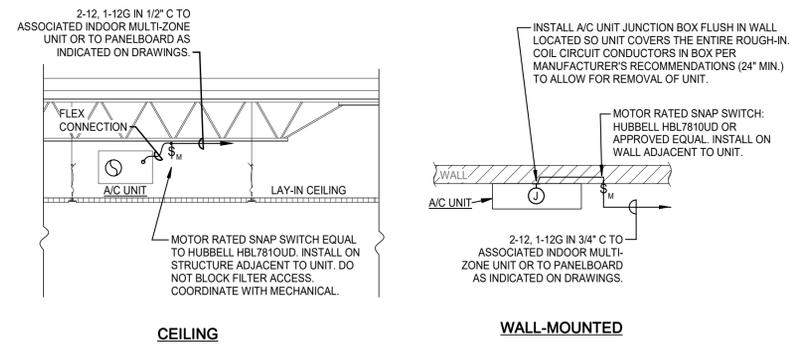
ELECTRICAL DETAILS

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	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

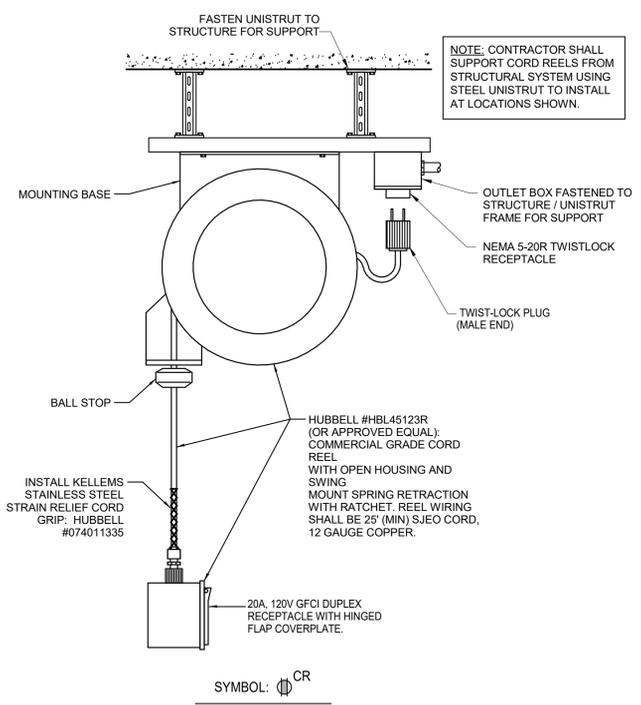
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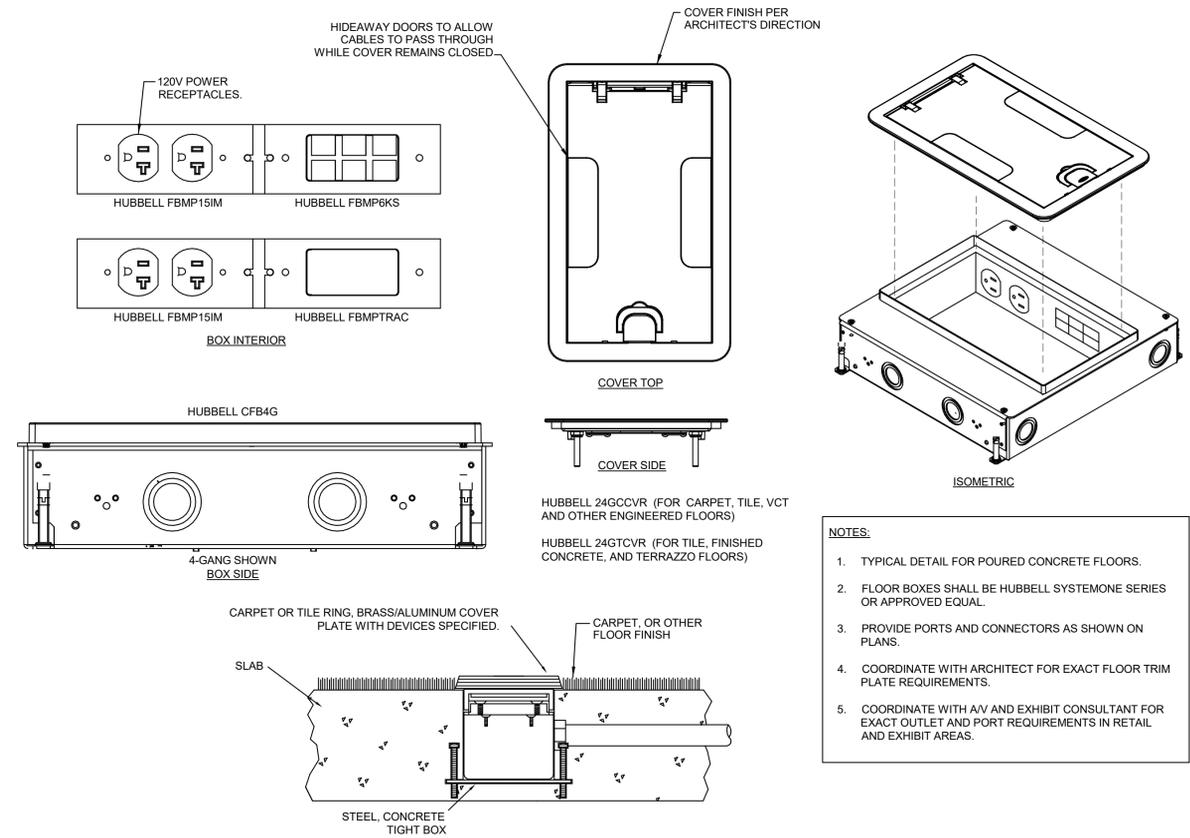
1 GROUNDING DETAIL
E803 N.T.S.



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



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



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

MOSES ENGINEERS CONSULTING ENGINEERS
909 Poydras Street, Suite 2150
New Orleans, Louisiana 70112-1034
Tel. 504-586-1725
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SIZLER THOMPSON BROWN ARCHITECTS
REGIONAL DESIGN GROUP, LLC
SIZLER THOMPSON BROWN ARCHITECTS
300 LAFAYETTE STREET, SUITE 200
NEW ORLEANS, LOUISIANA 70130
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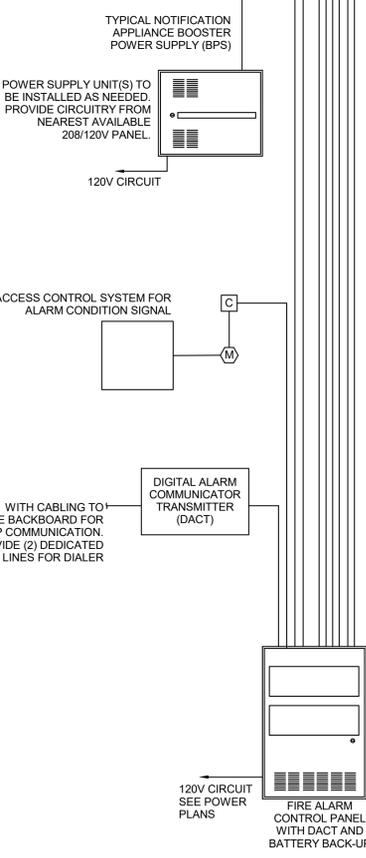
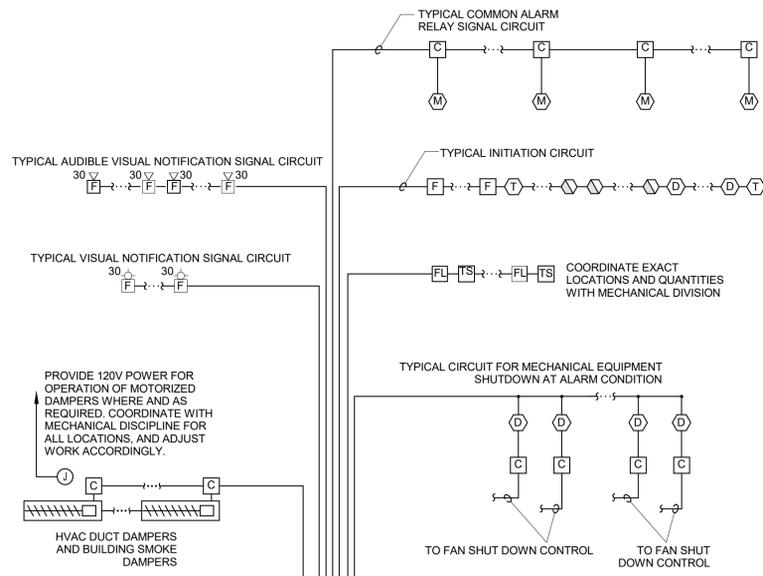
Revisions		
No.	Description	Date

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

ELECTRICAL DETAILS

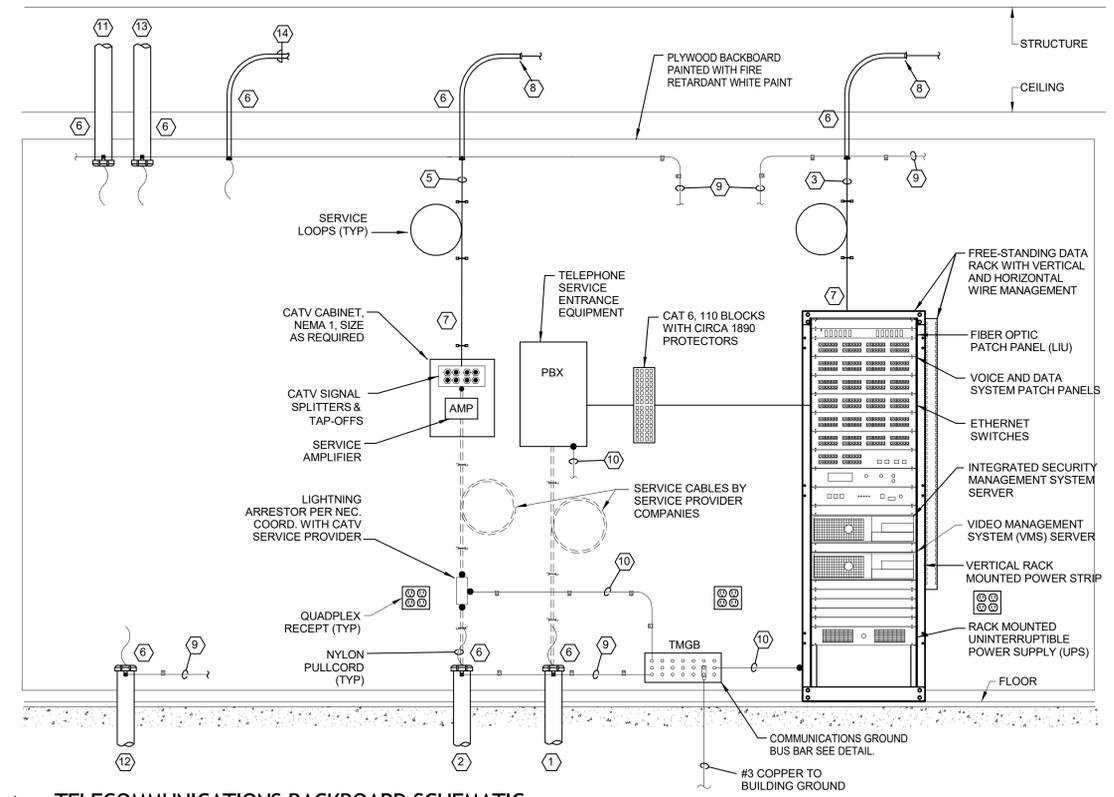
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	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		

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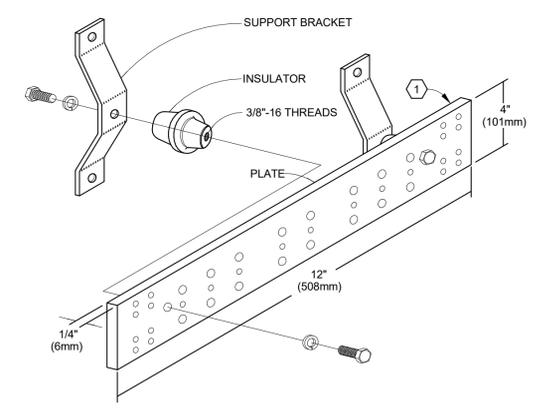


- GENERAL NOTES (FIRE ALARM RISER SCHEMATIC)**
- THIS IS A GENERAL SERVICE SCHEMATIC WITH TYPICAL BOARD AND DEVICE WIRING RELATIONSHIPS OF A NEW FIRE ALARM AND DETECTION CONTROL SYSTEM TO SERVE THE FACILITY.
 - PROVIDE ALL REQUIRED AND NECESSARY PANELS, BOARDS, APPLIANCES, WIRING, POWER SUPPLIES, PROGRAMMING, 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.
 - REFER TO PLANS AND DETAILS FOR QUANTITIES OF DEVICES AND GENERAL EQUIPMENT, LOCATIONS AND CABLING DETAILS.
 - EXACT LOCATIONS AND QUANTITIES OF APPLIANCES, PANELS, ETC. TO BE COORDINATED WITH AE TEAM PRIOR TO ROUGH IN AND LAYOUT.
 - 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.
 - 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.
 - FIRE SYSTEM CABLING TYPE, RATING, SIZE AND QUANTITIES, TO BE AS DICTATED BY FIRE ALARM AND FIRE SUPPRESSION SYSTEMS MANUFACTURERS.
 - 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.
 - 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)

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

- INCOMING CONDUIT(S) WITH PULLCORD FOR TELEPHONE SERVICE. SEE COMM RISER DIAGRAM AND SITE PLAN.
- INCOMING CONDUIT(S) WITH PULLCORD FOR CATV SERVICE. SEE COMM RISER DIAGRAM AND SITE PLAN.
- TYPICAL CAT 6 VOICE AND DATA STATION CABLES TO WORKSTATION JACKS.
- NOT USED.
- TYPICAL RG-6 COAXIAL CABLE TO TV OUTLET.
- 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.
- 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.
- STUB CONDUIT 18" ABV. LAY-IN CEILING. TERMINATE IN NYLON BUSHING OR INSULATED THROAT.
- BOND ALL INCOMING RACEWAY GROUND BUSHINGS TO TMGB WITH #6 COPPER WIRE.
- #6 COPPER ENCLOSURE GROUND WIRE TO NEAREST TMGB OR TBG.
- RACEWAY(S) TO ROOF FOR FUTURE RADIO SYSTEM. SEE COMMUNICATIONS RISER DIAGRAM.
- SPARE TELECOMM CONDUITS FROM OUTSIDE BUILDING. SEE ELECTRICAL SITE PLAN.
- CONDUIT RUN TO ROOF FOR FUTURE SATV SATELLITE SERVICE. SEE COMMUNICATIONS RISER DIAGRAM.
- TYPICAL 3/4" EMT WITH PULLCORD RUNNING TO TYPE 'R' COMMUNICATIONS OUTLETS FOR FUTURE RADIO SYSTEM CABLES.

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Revisions		
No.	Description	Date

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

ELECTRICAL DETAILS	
project number	21238.00
date	MARCH 19, 2019
phase	BID DOCUMENTS
drawing number	E804

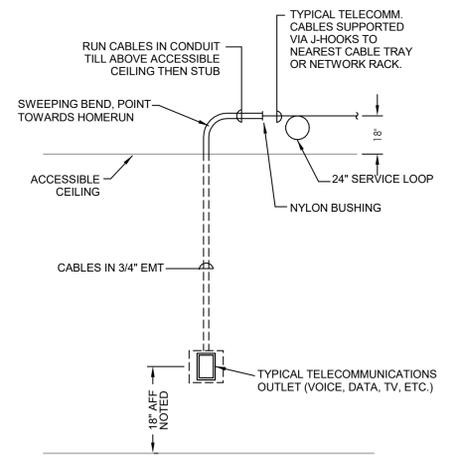
seal
 STATE OF LOUISIANA
 JEFFERY LAMBERT
 License No. 37172
 Professional Engineer

GENERAL NOTES
(COMMUNICATIONS RISER DIAGRAM)

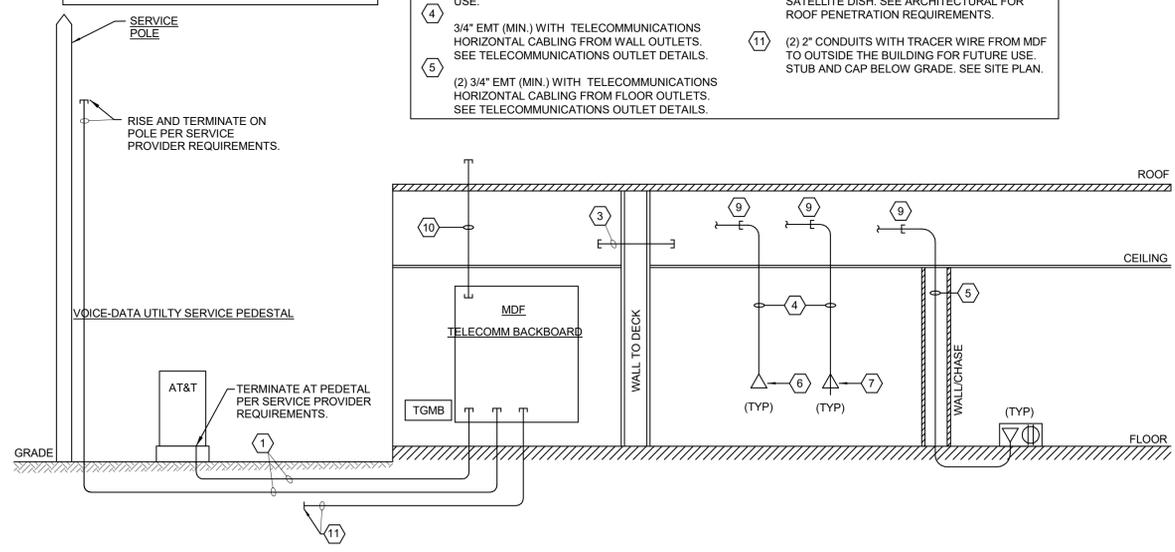
- CONDUIT RUNS SHALL NOT EXCEED 295 FEET FROM OUTLET BOX TO BACKBOARD.
- UTILIZE SWEEPING GRC BENDS ON 90'S OF VOICE-DATA AND CATV SERVICE RACEWAYS.
- COORDINATE VOICE-DATA AND CATV SERVICE RACEWAY TERMINATION LOCATIONS AND INSTALLATION REQUIREMENTS WITH SERVICE PROVIDERS PRIOR TO ROUGH-IN.
- COORDINATE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

REFERENCE NOTES
(COMMUNICATIONS RISER DIAGRAM)

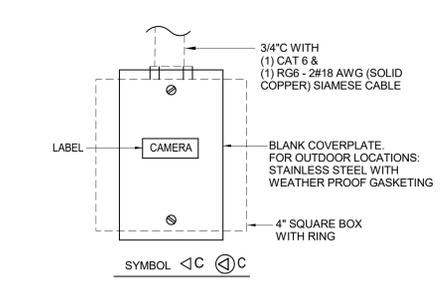
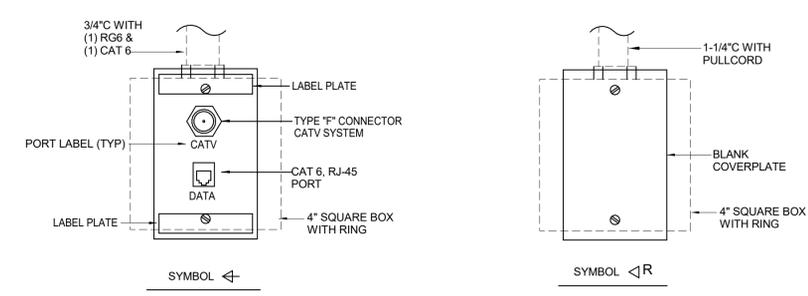
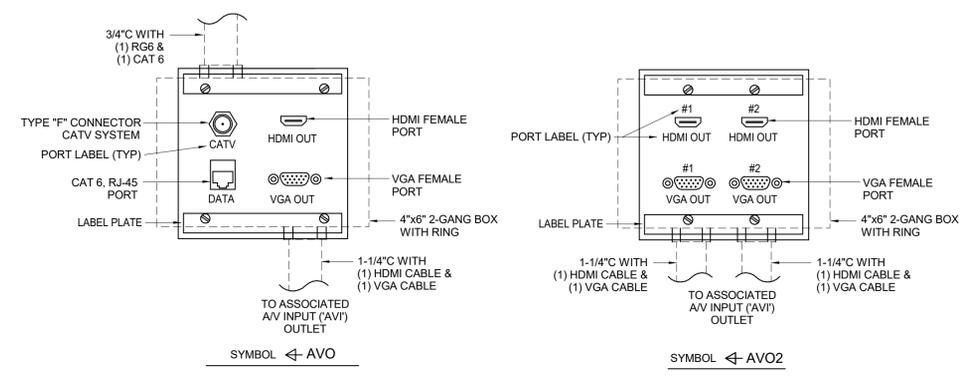
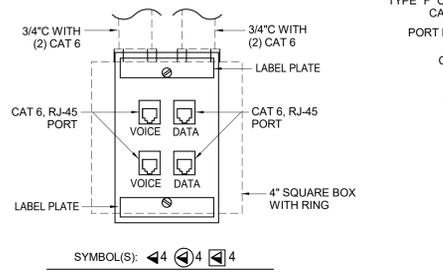
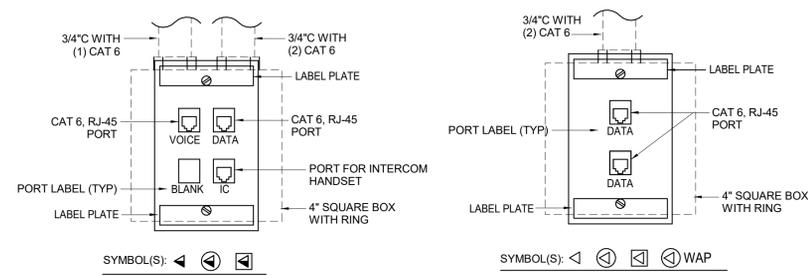
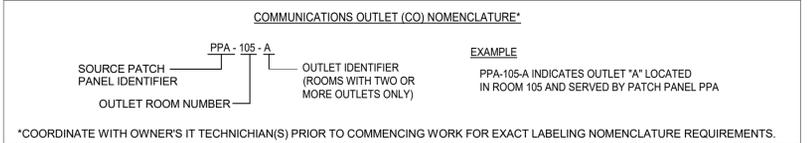
- (1) 2" CONDUIT FOR CATV SERVICE. RUN CONDUITS 48" (MIN.) BELOW GRADE FROM FROM MDF TO TELECOMMUNICATIONS UTILITY POLE.
- (1) 4" CONDUIT FOR VOICE-DATA FIBER SERVICE. RUN CONDUITS 48" (MIN.) BELOW GRADE FROM FROM MDF TO TELECOMMUNICATIONS UTILITY PEDESTAL.
- 4" SLEEVES THROUGH WALLS AS REQUIRED TO ALLOW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



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



1 TELECOMMUNICATIONS RISER DIAGRAM
E805 N.T.S.



3 TELECOMMUNICATIONS OUTLET DETAILS
E805 N.T.S.

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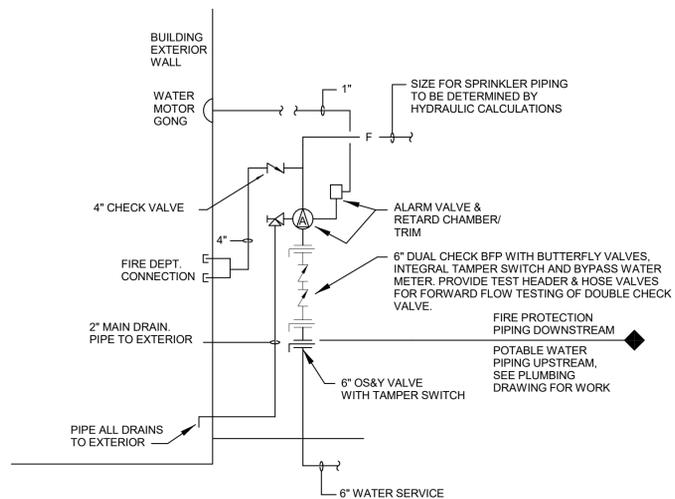
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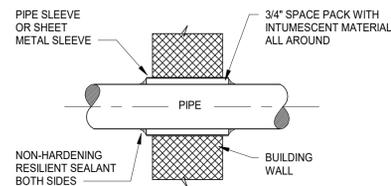
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ELECTRICAL DETAILS

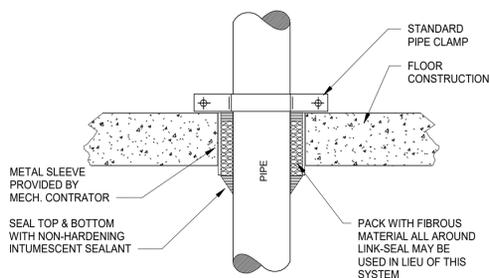
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	date	MARCH 19, 2019		
	phase	BID DOCUMENTS		



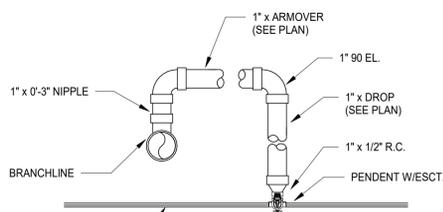
1 SPRINKLER SERVICE ENTRANCE DETAIL
F001 N.T.S.



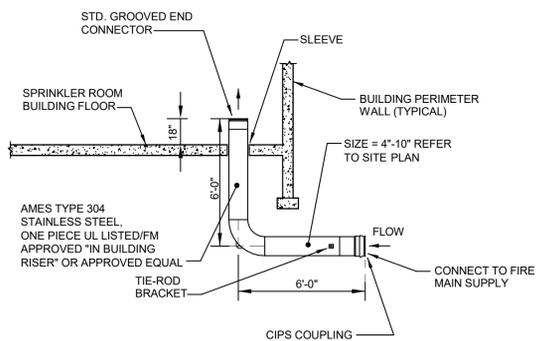
2 TYPICAL PIPE PENETRATION AT FIRE PARTITION
F001 N.T.S.



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 THROUGHOUT. 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 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
BMT	-	BASEMENT
BV	-	BALANCING VALVE
CA	-	COMPRESSED AIR
CAF	-	CAPPED FOR FUTURE
C.G.	-	CENTER OF GRAVITY
CHV	-	CHECK VALVE
CNTR. LN.	-	CENTER LINE
CONC. EQUIP.	-	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
GRV.T.	-	GRAVITY
GV	-	GATE VALVE
HP or hp	-	HORSEPOWER
HV	-	HOSE VALVE
IN	-	INCHES
KW or Kw	-	KILOWATTS
LB or lb	-	POUND
MAX	-	MAXIMUM
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
	ROOF MANIFOLD
	FIRE HOSE ANGLE VALVE
	SOLENOID VALVE
	SUPERVISED BALL VALVE
	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
	DRAIN
	CONCEALED SPRINKLER
	UPRIGHT SPRINKLER
	CONCENTRIC PIPE REDUCER
	ECCENTRIC PIPE REDUCER
	SLEEVE OR CORE THRU WALL
	2-WAY ROOF MANIFOLD
	FIRE PROTECTION PIPING
	SPRINKLER WITH GUARD
	FIRE HOSE CONNECTION
	FIRE HOSE VALVE CABINET
	DRY-PIPE FIRE PROTECTION PIPING
	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
	DEMARCATION FOR DISCIPLINES

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FIRE PROTECTION GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND DETAILS

	project number	21238.00	drawing number F001
	date	MARCH 19, 2019	
	phase	BID DOCUMENTS	

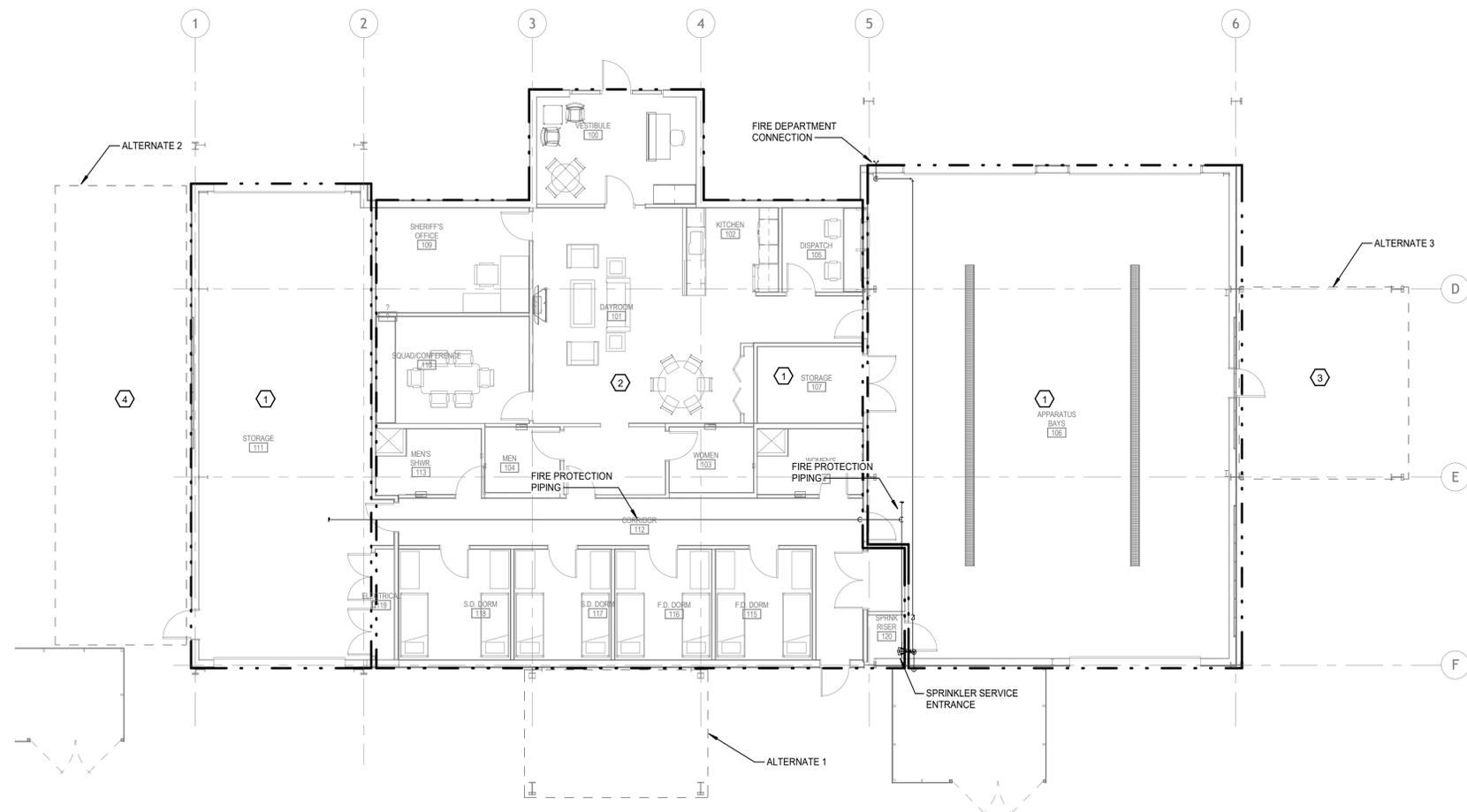
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SHEET GENERAL NOTES

1. ALTERNATE NO.1: ALL FIRE PROTECTION WORK ASSOCIATED WITH THE COVERED PATIO ON THE SOUTH SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 1, UNLESS NOTED OTHERWISE.
2. ALTERNATE NO.2: ALL FIRE PROTECTION WORK ASSOCIATED WITH MOBILE COMMAND CENTER PARKING ON WEST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 2, UNLESS NOTED OTHERWISE.
3. ALTERNATE NO.3: ALL FIRE PROTECTION WORK ASSOCIATED WITH COVERED AMBULANCE BAY ON EAST SIDE OF BUILDING SHALL BE ITEMIZED UNDER ALTERNATE 3, UNLESS NOTED OTHERWISE.

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.
- 3 ALTERNATE NO.3: INSTALL DRY HORIZONTAL SIDEWALL SPRINKLERS TO PROTECT COVERED PARKING AREA. SPRINKLER HEADS SHALL BE SUPPLIED FROM BUILDING'S WET SYSTEM IN ADJACENT HEATED AREA. AREA COVERS PARKED AMBULANCE.
- 4 ALTERNATE NO.2: INSTALL DRY HORIZONTAL SIDEWALL SPRINKLERS TO PROTECT COVERED PARKING AREA. SPRINKLER HEADS SHALL BE SUPPLIED FROM BUILDING'S WET SYSTEM IN ADJACENT HEATED AREA. AREA COVERS PARKED MOBILE COMMAND CENTER.



1
F201 **FIRE PROTECTION PLAN**
1/8" = 1'-0"

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