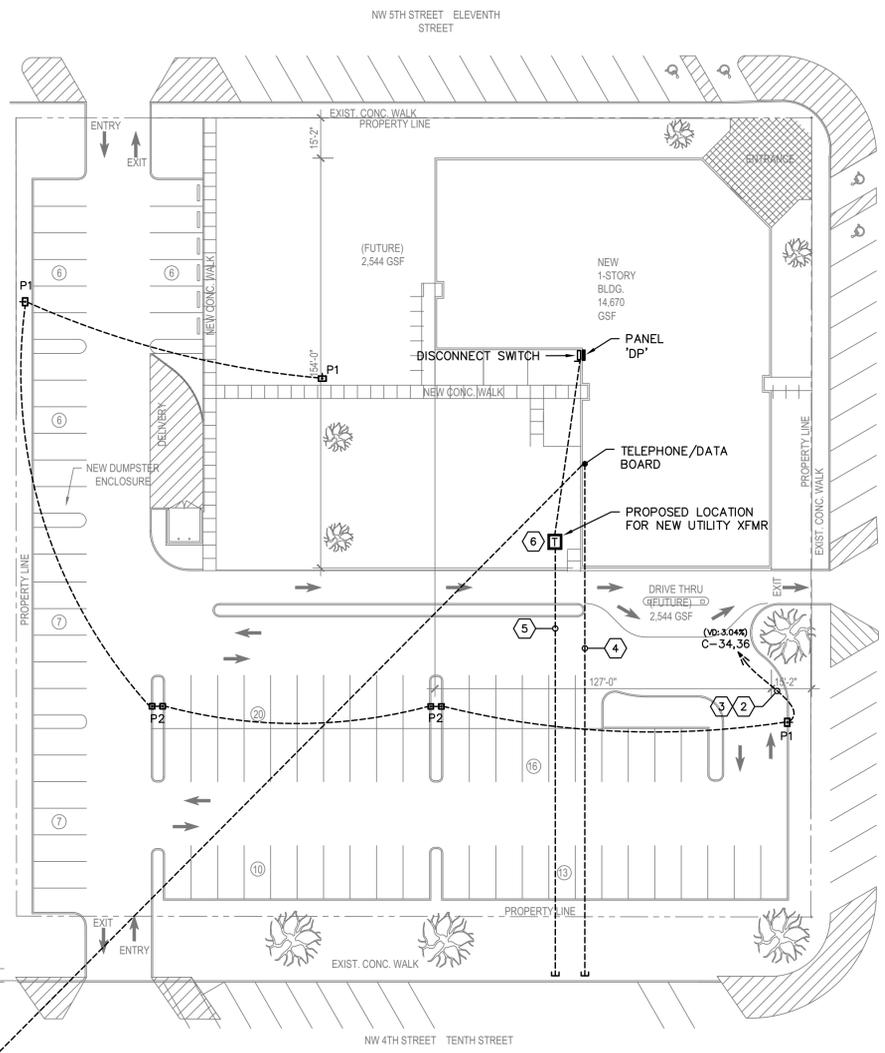


**SITE FIXTURE POLE DETAIL**  
NOT TO SCALE

- GENERAL NOTES:**
- CONTRACTOR TO SUBMIT DESIGN WIND LOAD CALCULATIONS CERTIFYING CONFORMANCE OF POLE ASSEMBLY AS DICTATED BY THE FLORIDA BUILDING CODE (1606-1) AND ASCE (7-98). EACH CALCULATION SHALL BE SIGNED AND SEALED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER.
  - PROVIDE MANUFACTURER'S HOUSE SIDE SHIELDS OR FIELD FABRICATED EXTERNAL SHIELDS ON ALL FIXTURES BORDERING PROPERTY LINE. LIGHT TRESPASS NOT TO EXCEED 1.0 FOOTCANDLE MEASURED ON A VERTICAL PLANE AT 3' A.F.G. AT THE PROPERTY LINE.
  - POLE TO BE EQUIPPED WITH FACTORY INSTALLED GROUND STUD. BOND EQUIPMENT GROUND CONDUCTORS TO THE GROUND STUD.
  - LOCATE FUSES IN HANDHOLE. USE BUSSMAN WEATHERPROOF TYPE 'HEB' FUSE HOLDERS. FUSE AT 3.2 AMPS TYPE FNM FUSES (2) PER FIXTURE.
  - COORDINATE ALL WORK WITH CIVIL SITE PLANS.



**ELECTRICAL SITE PLAN**  
SCALE: 1/32" = 1'-0"

FIXTURE TYPE 'P2'  
FIXTURE TYPE 'P1'

Symbol	Qty	Type	Fixture	Arrangement	LLF	Lamp Lumens	Fixture Lumens	Watts
[Symbol]	2	G245W	MCGRAW-EDISON #GLEON-AF-04-LED-E1-5WQ-208V	D180	0.912	N.A.	25291	450
[Symbol]	2	G144S	MCGRAW-EDISON #GLEON-AF-05-LED-E1-SL4-HSS-208V	SINGLE	0.912	N.A.	24145	279

Label	Avg	Max	Min	Max/Min	Avg/Min	Units	CalcType	Grid Z	PtSpcLr	PtSpcTb
Parking and Drive	2.42	5.2	0.5	10.40	4.84	Fc	Illuminance	0	10	10

- GENERAL NOTES:**
- ROUTE ALL SITE CONDUIT 36" BELOW GRADE. COORDINATE PRIMARY CONDUIT DEPTH WITH DUKE ENERGY.
  - COORDINATE EXACT LOCATION OF BACKFLOW PREVENTER CIVIL DRAWINGS AND PROVIDE FIRE ALARM MONITORING CONNECTION AS SHOWN ON FIRE ALARM RISER, SHEET E501.
- DRAWING NOTES:**
- UNDERGROUND SECONDARY. SEE POWER RISER ON SHEET E701 FOR SPECIFICATION.
  - USE NO 10. AWG WIRE THIS ENTIRE CIRCUIT.
  - ROUTE CIRCUIT VIA POWER/LIGHTING CONTROL PANEL. SEE LOCATION ON SHEET E401 (NOTE #2).
  - (2) 4" CONDUITS FOR TELEPHONE/DATA SERVICE. COORDINATE EXACT ROUTING WITH LOCAL TELEPHONE/DATA TV PROVIDER.
  - PRIMARY CONDUITS BY CONTRACTOR. COORDINATE EXACT REQUIREMENT AND ROUTING LOCATION WITH FP&L. JACK & BORE WILL BE REQUIRED UNDER NW 4TH STREET.
  - TRANSFORMER PAD PER FP&L SPECIFICATIONS BY CONTRACTOR.
  - DIRECTIONAL BORE 4" CONDUIT, 36" BELOW GRADE OR AS REQUIRED TO AVOID EXISTING UNDERGROUND UTILITIES. CONDUIT SHALL HAVE (3) 1" INNERDUCTS AND (1) 12-STRAND SINGLE MODE FIBER CABLE ROUTED IN ONE OF THE INNER-DUCTS. FIBER TRAYS SHALL BE INSTALLED AND TERMINATIONS MADE AT EACH END.

- FIBER EQUIPMENT:**
- FIBER OPTIC CABLE: STRAND (STRAND QUANTITY AS NOTED) TIGHT BUFFER 82.5/125 FIBER OPTIC SINGLE MODE CABLE OFNR RATED FOR INDOOR/OUTDOOR. SHOULD BE INSTALLED HOME RUN, WITH NO SPLICES, FROM THE IDF TO IDF. DESIGN SELECTION: OPTICAL FIBER CORPORATION. EACH STRAND MUST BE USABLE AND CAPABLE OF SUPPORTING IEEE 802.3Z 1000BASE-SX AND LX 10 GIGABIT DATA TRANSMISSION. FIBER SHOULD BE TERMINATED INTO A 36 PORT FIBER OPTIC PATCH PANEL ON EACH END WITH ST STYLE CONNECTORS. CABLES SHOULD BE PERMANENTLY IDENTIFIED AT EACH END. FIBER PATCH PANELS WILL BE EQUIPPED WITH ST STYLE CONNECTORS IN AN EASILY ENTERED 18" RACK MOUNTABLE ENCLOSURE 36 POSITION RIC. EACH FIBER CABINET SHALL BE FULLY LOADED WITH 36 ST ADAPTERS 10 GIGABIT. HUBBELL PREMISE WIRING: # F0R3505P36. INNERDUCT: PYRAMID # 4404-04R-5000 OR EQUIVALENT.
- FIBER TESTING:**
- CONTRACTOR SHALL TEST EACH FIBER STRAND OF EACH CABLE. THE OWNER RESERVES THE RIGHT TO HAVE A REPRESENTATIVE PRESENT DURING ALL OR PORTION OF TESTING. ALL TESTING SHALL BE FOR 10 GIGABIT.
  - EACH FIBER IN EVERY BACKBONE CABLE RUN SHALL BE TESTED WITH AN OPTICAL LIGHT SOURCE AND POWER METER AS MANUFACTURED BY NOYES FIBER SYSTEMS OR HP/AGILENT TECHNOLOGIES. SINGLE MODE FIBER TESTING SHALL BE I.A.W. TIA/EIA-526-144; METHOD B. EACH SINGLE MODE FIBER SHALL BE TESTED AT BOTH 850 AND 1300NM IN BOTH DIRECTIONS. MAXIMUM FIBER STRAND ATTENUATION SHALL BE DETERMINED USING THE FOLLOWING LINK ATTENUATION EQUATION:
  - MAXIMUM LINK ATTENUATION= CONNECTOR ATTENUATION + CABLE ATTENUATION + SPLICE ATTENUATION\*
  - MAXIMUM ATTENUATION PER COMPONENT:  
CONNECTOR ATTENUATION = 0.75DB/1 MATED CONNECTOR PAIR  
CABLE ATTENUATION = 3.00DB/KM @ 850NM AND 1.00DB @ 1300NM  
SPLICE ATTENUATION = 0.30DB/SPLICE  
\* NO SPLICES ARE PERMITTED BETWEEN ANY IDF AND IDF.
  - CONTRACTOR SHALL CALCULATE THE ACCEPTANCE VALUES FOR EACH FIBER STRAND BASED ON THE ABOVE CRITERIA. THE ACCEPTANCE VALUES SHALL BE SUBMITTED IN A SPREADSHEET FORMAT LISTING THE ACCEPTANCE DB VALUE, THE MEASURED DB LOSS, AND THE DB MARGIN OF EACH MEASURED FIBER STRAND TO THE ACCEPTANCE VALUES.
  - BACKBONE LENGTHS SHALL BE VERIFIED WITH AN OTRD AS MANUFACTURED BY NOYES FIBER SYSTEMS OR HP/AGILENT TECHNOLOGIES.
  - OPTICAL POWER METER AND OTRD RESULTS SHALL BE IN THE FORM OF TESTER REPORT PRINT OUTS. PHOTOCOPIES OF TEST RESULTS WILL NOT BE ACCEPTED. ONLY ORIGINAL SIGNED PRINT OUTS WILL BE ACCEPTED. TEST RESULTS SHALL BE SUBMITTED TO THE OWNER IT DEPARTMENT. TEST RESULTS SHALL BE I.A.W. IEEE 802.3Z (1000 BASE-SX) TEST PARAMETERS.
  - FIBER OPTIC BACKBONE TEST RESULTS SHALL INCLUDE THE FOLLOWING FOR EACH STRAND:
    - WAVELENGTH
    - FIBER TYPE
    - MEASURED DB LOSS
    - CALCULATED DB TO MEASURED DB MARGIN
    - CABLE LENGTH
    - TEST EQUIPMENT MODEL AND SERIAL #S
    - DATE
    - OPERATOR

**NEW PROPERTY APPRAISER,  
TAX COLLECTOR & DRIVER'S LICENSE  
BUILDING for OKEECHOBEE BOCC  
OKEECHOBEE, FLORIDA 34972**

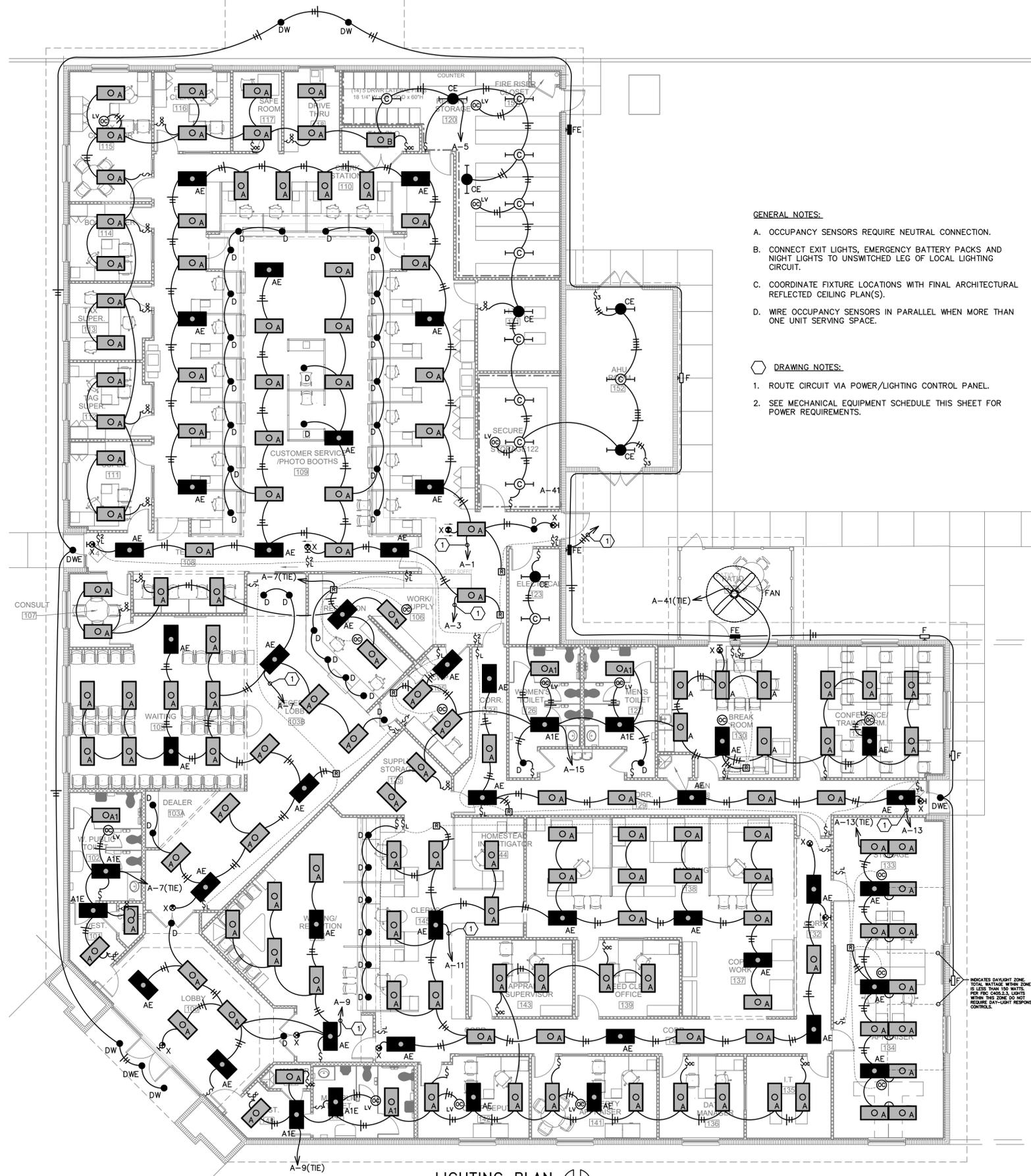
STA PROJECT #: 1804

PROJECT MGR.: DN

#	DATE	ISSUED AS
1	08.30.18	SD DOCS.
2	09.06.18	SD DOCS. REV.
3	09.18.18	SD DOCS. REV.
4	09.18.18	SITE PLAN REV.
5	11.07.18	DD DOCS.
6	02.12.19	90% CD'S
7	03.26.19	100% CD'S
8	04.19.19	PERMIT SET

**ELECTRICAL  
SITE  
PLAN**

**E201**



**LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"

**POWER/LIGHTING CONTROL PANEL**

LIGHTING CONTROL DEVICES SCHEDULE					
DOUGLAS	DESCRIPTION	QTY	DOUGLAS CONTROL WIRING	CONTROL WIRING	MOUNTING
WLCP-CP32/32 (32 Relays)	CONTROL PANEL W/ (32) RELAYS	AS REQ	2 x #18 AWG	CAT5	SURFACE
WSW-3511	PUSH-BUTTON SWITCH, 1 CHANNEL	AS REQ	2 x #18 AWG	CAT5	ELECTRICAL BOX
WSW-3512	PUSH-BUTTON SWITCH, 2 CHANNEL	AS REQ	2 x #18 AWG	CAT5	ELECTRICAL BOX
1 x WRC-3280 for every 2 x n(P)	POWER PACK 1-CIRCUIT, NON-DIMMING, 16A MAX	AS REQ	2 x #18 AWG	CAT5	ELECTRICAL BOX
WVSSDU1-P-VW	COMBINATION OCCUPANCY SENSOR/SINGLE BUTTON SWITCH	AS REQ	120/277 LINE VOLTAGE	120/277 LINE VOLTAGE	ELECTRICAL BOX
WORXDD2-R-N	EXTENDED RANGE OCCUPANCY SENSOR, DUAL TECH, CEILING MOUNT	AS REQ	24VAC (Requires Douglas Power Pack)	24VDC	CEILING
WORSDU1-P-N	OCCUPANCY SENSOR, DUAL TECH, CEILING MOUNT	AS REQ	120/277 LINE VOLTAGE	120/277 LINE VOLTAGE	CEILING

**GENERAL NOTES:**

- A. OCCUPANCY SENSORS REQUIRE NEUTRAL CONNECTION.
- B. CONNECT EXIT LIGHTS, EMERGENCY BATTERY PACKS AND NIGHT LIGHTS TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.
- C. COORDINATE FIXTURE LOCATIONS WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN(S).
- D. WIRE OCCUPANCY SENSORS IN PARALLEL WHEN MORE THAN ONE UNIT SERVING SPACE.

**DRAWING NOTES:**

- 1. ROUTE CIRCUIT VIA POWER/LIGHTING CONTROL PANEL.
- 2. SEE MECHANICAL EQUIPMENT SCHEDULE THIS SHEET FOR POWER REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER	CATALOG NO.	MOUNTING	VOLT	LAMP	REMARKS	INPUT WATTS
A	METALUX	24RTC-48-UNV-L835-CD-U	LAY-IN GRID	UNV	LED	2X4 LED FIXTURE	37
AE	METALUX	24RTC-48-UNV-EL14W-L835-CD-U	LAY-IN GRID	UNV	LED	2X4 LED FIXTURE WITH EMERGENCY DRIVER	37
A1	METALUX	24RTC-48-UNV-L835-CD-U-DF-24-WU	RECESSED	UNV	LED	2X4 LED FIXTURE WITH DRYWALL FRAMING KIT	37
A1E	METALUX	24RTC-48-UNV-EL14W-L835-CD-U-DF-24-WU	RECESSED	UNV	LED	2X4 LED FIXTURE WITH EMERGENCY DRIVER AND DRYWALL FRAMING KIT	37
B	METALUX	24GR-LD5-64-F1-UNV-L835-CD1-U	LAY-IN GRID	UNV	LED	2X4 LED FLAT PANEL FIXTURE	48
C	METALUX	4WSNLED-LD4-56HL-F-UNV-L840-CD1-U	SURFACE CEILING	UNV	LED	4' LED WRAP FIXTURE	59
CE	METALUX	4WSNLED-LD4-56HL-F-UNV-EL14W-L840-CD1-U	SURFACE CEILING	UNV	LED	4' LED WRAP FIXTURE WITH EMERGENCY DRIVER	59
D	HALO COMM	PD610D010B-PDM6B830-61VC	RECESSED	120	LED	6" LED DOWNLIGHT (FINISH BY ARCHITECT/OWNER)	12
DW	EATON	LDA6A15935DE1010-61V-C	RECESSED	120	LED	6" EXTERIOR RATED LED DOWNLIGHT (COLOR/FINISH BY ARCHITECT/OWNER)	15
DWE	EATON	LDA6A15935DE1010-61V-C-EM7	RECESSED	120	LED	6" EXTERIOR RATED LED DOWNLIGHT WITH EMERGENCY DRIVER (FINISH BY ARCHITECT/OWNER)	15
F	EATON	ENC-E01-LED-E1-BL4-8030	SURFACE WALL	120	LED	EXTERIOR RATED WALL PACK (COLOR/FINISH BY ARCHITECT)	25
FE	EATON	ENC-E01-LED-E1-BL4-8030-BBB	SURFACE WALL	120	LED	EXTERIOR RATED WALL PACK WITH EMERGENCY DRIVER (COLOR/FINISH BY ARCHITECT)	25
X	SURE-LITES	EUR70R	SURFACE WALL OR CEILING	120	LED	EXIT SIGN WITH EMERGENCY DRIVER	

**NEW PROPERTY APPRAISER,  
TAX COLLECTOR & DRIVER'S LICENSE  
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OKEECHOBEE, FLORIDA 34972**

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**LIGHTING PLAN**

**E301**

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ENGINEERING

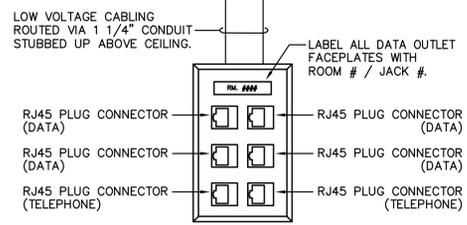
DONALD J. NEWMAN P.E. 82387

**STRAUGHN TROUT ARCHITECTS**  
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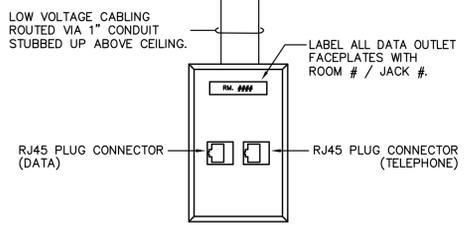
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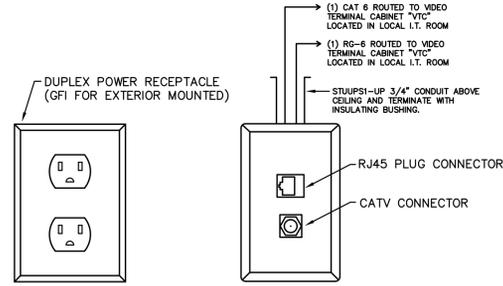
**TYPICAL 6-JACK TELEPHONE/DATA OUTLET**

NOT TO SCALE  
TYPICAL FOR ALL ▼ SHOWN ON DRAWINGS.



**TYPICAL 2-JACK TELEPHONE/DATA OUTLET**

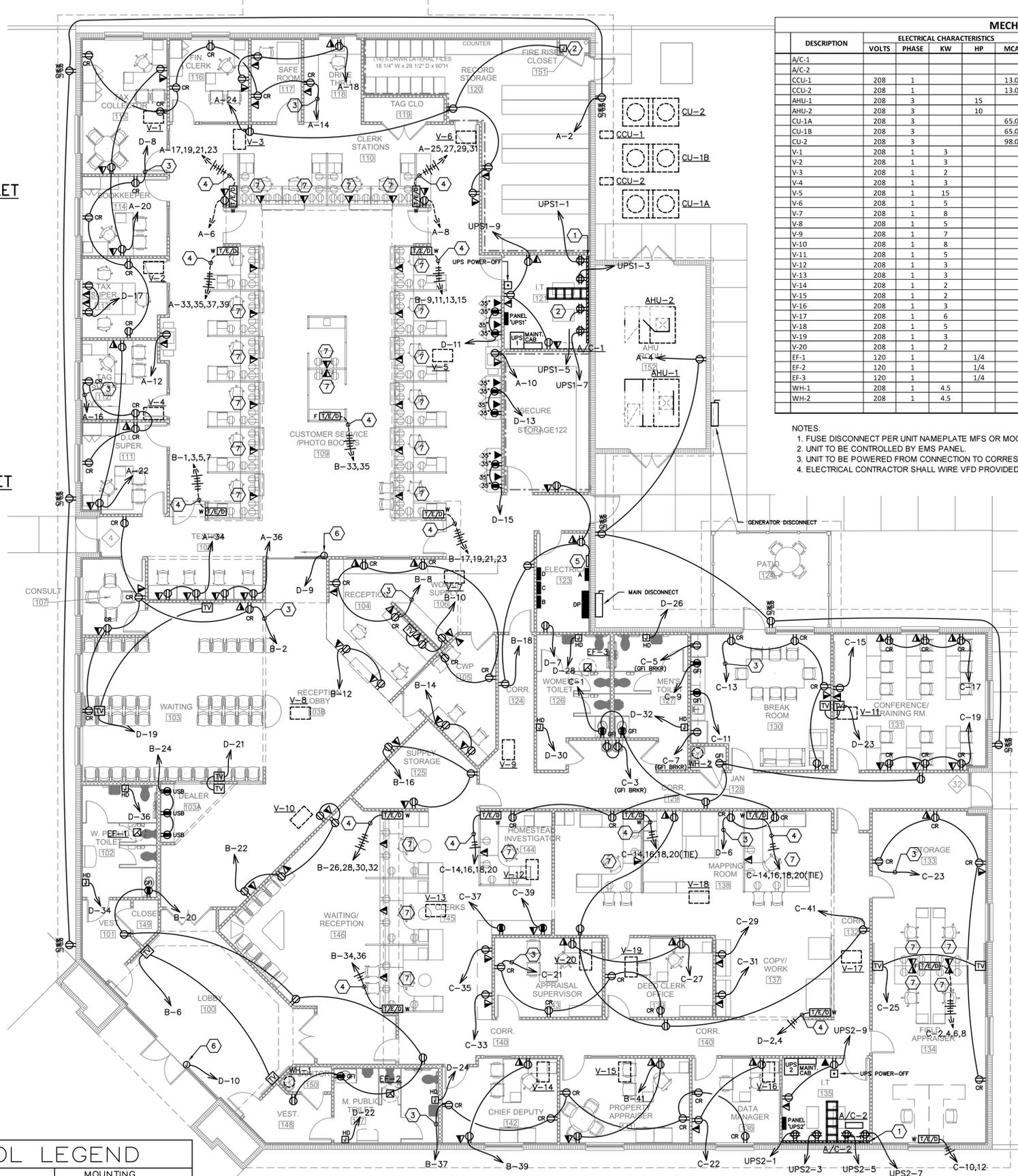
NOT TO SCALE  
TYPICAL FOR ALL ▼ SHOWN ON DRAWINGS.



**TYPICAL TV OUTLET/RECEPTACLE DETAIL**

NOT TO SCALE  
SYMBOL REPRESENTS POWER DUPLEX RECEPTACLE AND T.V. OUTLET.  
TYPICAL FOR ALL ▼ SHOWN ON DRAWINGS.

**NOTES:**  
1. FIELD VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.



MECHANICAL EQUIPMENT													
DESCRIPTION	VOLTS	PHASE	KW	HP	MCA	CIRCUIT DESIGNATION	BREAKER AMPS	POLES	FEEDER	EQUIP. GROUND	CONDUIT	DISCONNECT SWITCH	REMARKS
A/C-1						NOTE #3			(2) #12	#12	1/2"	30A/3P/NF/NEMA-1	
A/C-2						NOTE #3			(2) #12	#12	1/2"	30A/3P/NF/NEMA-1	
CCU-1	208	1			13.0	DP-33,35	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-3R	NOTE #1
CCU-2	208	1			13.0	DP-37,39	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-3R	NOTE #1
AHU-1	208	3		15		DP-32,34,36	100	3	(3) #6	#10	1 1/4"	100A/3P/NF/NEMA-1	NOTE #4
AHU-2	208	3		10		DP-38,40,42	70	3	(3) #6	#10	1 1/4"	100A/3P/NF/NEMA-1	NOTE #4
CU-1A	208	3				DP-44,46,48	80	3	(3) #4	#8	1 1/4"	100A/3P/NF/NEMA-3R	NOTE #1
CU-1B	208	3			65.0	DP-50,52,54	80	3	(3) #4	#8	1 1/4"	100A/3P/NF/NEMA-3R	NOTE #1
CU-2	208	3			98.0	DP-56,58,60	125	3	(3) #1	#6	1 1/2"	100A/3P/NF/NEMA-3R	NOTE #1
V-1	208	1	3			ME-2,4	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-2	208	1	3			ME-6,8	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-3	208	1	2			ME-10,12	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-4	208	1	3			ME-14,16	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-5	208	1	15			ME-18,20	30	2	(2) #3	#8	1 1/4"	100A/2P/NF/NEMA-1	
V-6	208	1	5			ME-22,24	90	2	(2) #10	#10	1/2"	30A/2P/NF/NEMA-1	
V-7	208	1	8			ME-26,28	50	2	(2) #6	#10	1"	60A/2P/NF/NEMA-1	
V-8	208	1	5			ME-30,32	30	2	(2) #10	#10	1/2"	30A/2P/NF/NEMA-1	
V-9	208	1	7			ME-34,36	50	2	(2) #6	#10	1"	60A/2P/NF/NEMA-1	
V-10	208	1	8			ME-38,40	50	2	(2) #6	#10	1"	60A/2P/NF/NEMA-1	
V-11	208	1	5			ME-1,3	30	2	(2) #10	#10	1/2"	30A/2P/NF/NEMA-1	
V-12	208	1	3			ME-5,7	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-13	208	1	3			ME-9,11	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-14	208	1	2			ME-13,15	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-15	208	1	2			ME-17,19	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-16	208	1	3			ME-21,23	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-17	208	1	6			ME-25,27	40	2	(2) #8	#10	3/4"	60A/2P/NF/NEMA-1	
V-18	208	1	5			ME-29,31	30	2	(2) #10	#10	1/2"	30A/2P/NF/NEMA-1	
V-19	208	1	3			ME-33,35	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
V-20	208	1	2			ME-37,39	20	2	(2) #12	#12	1/2"	30A/2P/NF/NEMA-1	
EF-1	120	1		1/4		D-1	20	1	(2) #12	#12	1/2"	TOGGLE DISCONNECT	NOTE #2
EF-2	120	1		1/4		D-3	20	1	(2) #12	#12	1/2"	TOGGLE DISCONNECT	NOTE #2
EF-3	120	1		1/4		D-5	20	1	(2) #12	#12	1/2"	TOGGLE DISCONNECT	NOTE #2
WH-1	208	1	4.5			D-35,37	30	2	(2) #10	#10	1/2"	30A/2P/NF/NEMA-1	
WH-2	208	1	4.5			D-39,41	30	2	(2) #10	#10	1/2"	30A/2P/NF/NEMA-1	

**NOTES:**  
1. FUSE DISCONNECT PER UNIT NAMEPLATE MFS OR MOCF.  
2. UNIT TO BE CONTROLLED BY EMS PANEL.  
3. UNIT TO BE POWERED FROM CONNECTION TO CORRESPONDING CCU.  
4. ELECTRICAL CONTRACTOR SHALL WIRE VFD PROVIDED BY MECHANICAL CONTRACTOR.

**GENERAL NOTES:**  
A. SEE MECHANICAL EQUIPMENT SCHEDULE THIS SHEET FOR AIR HANDLERS, CONDENSING UNITS, VAVs AND WATER HEATER POWER REQUIREMENTS.  
B. ALL CONDUIT ROUTED BELOW SLAB SHALL BE A MINIMUM OF 3/4".  
C. SEE LOW VOLTAGE PLAN SHEET E501 FOR FIRE ALARM, DATA, TELEPHONE, SYSTEMS REQUIREMENTS.

**DRAWING NOTES:**  
1. 4' X 12' X 3/4" PLYWOOD TELEPHONE TERMINAL BOARD (TTB). MOUNT ON WALL @ 24" A.F.F. AND PAINT WITH (2) COATS OF FIRE RETARDANT PAINT ON ALL SIX (6) SIDES COLOR TO MATCH WALLS. MOUNT 1 NO. 6 SOLID COPPER GROUND WIRE TO SIDE OF BOARD AND ROUTE TO MAIN SERVICE ENTRANCE GROUND. PROVIDE 6'-0" OF SLACK AT BOARD. SEE GROUND BAR DETAIL ON SHEET E601.  
2. OUTLET BOX AND CONNECTION TO FIRE ALARM BELL.  
3. ROUTE CIRCUIT VIA POWER/LIGHTING CONTROL PANEL.  
4. MODULAR FURNITURE CONVENIENCE CIRCUIT SHALL BE ROUTED VIA POWER/LIGHTING CONTROL PANEL.  
5. 32 RELAY POWER/LIGHTING CONTROL PANEL.  
6. RECESSED OUTLET BOX AND CONNECTION TO POWERED DOOR.  
7. TELEPHONE/DATA OUTLETS AND CONDUCTORS IN MODULAR FURNITURE SHALL BE SUPPLIED/INSTALLED BY CONTRACTOR. MODULAR FURNITURE RECEPTACLES, WIRING AND POWER WHIP ARE SUPPLIED/INSTALLED BY MANUFACTURER. SEE TELEPHONE/DATA SYMBOL LEGEND AND TELEPHONE/DATA OUTLET DETAILS THIS SHEET FOR REQUIREMENTS.

TELEPHONE/DATA SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
▼	RECESSED TELE./DATA OUTLET BOX WITH (6) CAT 6 CABLES AND (6) RJ45 PLUG CONNECTIONS. EXTEND 1 1/4" CONDUIT INTO CEILING SPACE AND TERMINATE WITH INSULATING BUSHING. SEE DETAIL THIS SHEET AND SPECIFICATIONS FOR REQUIREMENTS.	M.H. 18" TO CENTERLINE OR AS NOTED
▼	RECESSED TELE./DATA OUTLET BOX WITH (2) CAT 6 CABLES AND (2) RJ45 PLUG CONNECTIONS. EXTEND 1" CONDUIT INTO CEILING SPACE AND TERMINATE WITH INSULATING BUSHING. SEE DETAIL THIS SHEET AND SPECIFICATIONS FOR REQUIREMENTS.	M.H. 18" TO CENTERLINE OR AS NOTED

**POWER PLAN**  
SCALE: 1/8" = 1'-0"

**NEWPOWER**  
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15520 HIGH BELL BL., BRADENTON FL 34212  
PH: 813.489.9850, COA# 32011  
ENGINEERING

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**NEW PROPERTY APPRAISER,  
TAX COLLECTOR & DRIVER'S LICENSE  
BUILDING for OKEECHOBEE BOCC  
OKEECHOBEE, FLORIDA 34972**

STA PROJECT #: 1804

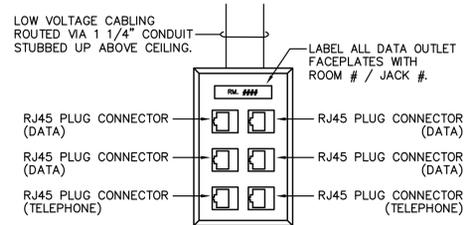
PROJECT MGR.: DN

#	DATE	ISSUED AS
1	08.30.18	SD DOCS.
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8	04.19.19	PERMIT SET

**POWER & SYSTEMS PLAN**

**E401**

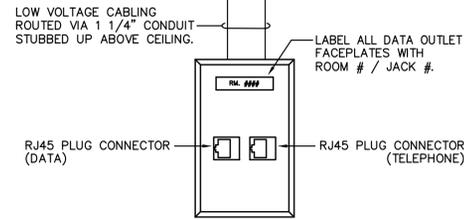




**TYPICAL TELEPHONE/DATA OUTLET**

NOT TO SCALE

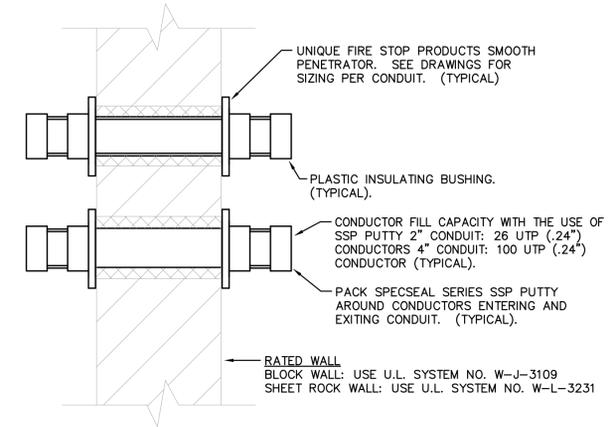
TYPICAL FOR ALL ▼ SHOWN ON DRAWINGS.



**TYPICAL TELEPHONE/DATA OUTLET**

NOT TO SCALE

TYPICAL FOR ALL ▼ SHOWN ON DRAWINGS.

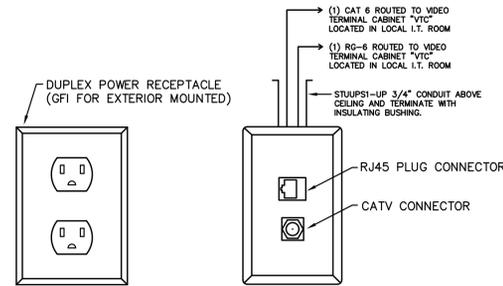


**CONDUIT PENETRATION OF RATED WALL**

NOT TO SCALE

**GENERAL NOTE:**

1. PENETRATIONS SHALL BE NO MORE THAN 2'-0" ABOVE CEILING. TYPICAL AT ALL PENETRATION LOCATIONS.



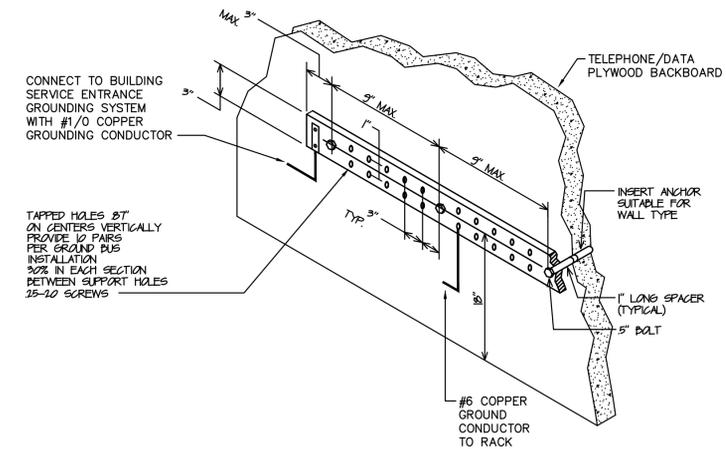
**TYPICAL TV OUTLET/RECEPTACLE DETAIL**

NOT TO SCALE

SYMBOL REPRESENTS POWER DUPLEX RECEPTACLE AND T.V. OUTLET. TYPICAL FOR ALL ▼ SHOWN ON DRAWINGS.

**NOTES:**

1. FIELD VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.



**GROUND BAR DETAIL**

NOT TO SCALE



**STRAUGHN TROUT ARCHITECTS**  
 2005 E. Edgewood Drive  
 Lakeland, Florida USA 33803-9001  
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 FX: (803) 865-6206  
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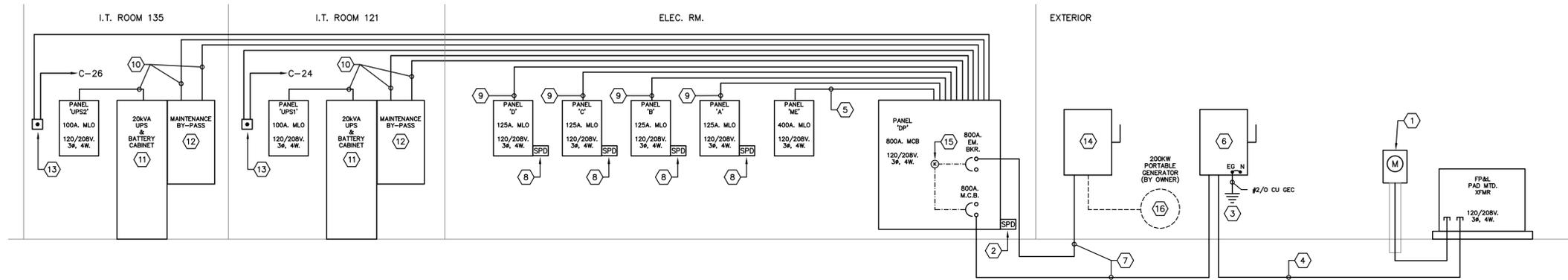
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**ELECTRICAL  
 DETAILS**

**E601**

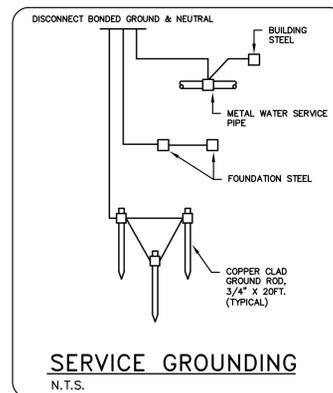
**NEWPOWER**  
 consulting, inc  
 15520 HIGH BELL PL., BRADENTON, FL 34212  
 PH: 813.489.9850, COA# 32011  
 ENGINEERING



**POWER RISER DIAGRAM**  
NOT TO SCALE

**FAULT STUDY**

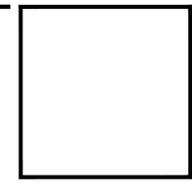
XFMR AFC VOLTAGE	65058										
NODES	D/C	DP	A	B	C	D	UPS1 BY-PASS	UPS2 BY-PASS	ME		
I <sub>SCA</sub>	65058	38064	37399	37399	37399	37399	37399	37399	37399	37399	
length	70	3	3	5	6	7	45	75	5		
wire size	500	500	1	1	1	1	2	2	1		
C VALUE	26706	26706	7293	7293	7293	7293	5907	5907	22185		
sets	2	2	1	1	1	1	1	1	1		
f	0.7092	0.0178	0.1280	0.2133	0.2559	0.2986	2.3697	3.9495	0.0701		
M	0.5851	0.9825	0.8866	0.8242	0.7962	0.7701	0.2968	0.2020	0.9345		
FAULT	38064	37399	33157	30825	29779	28801	11099	7556	34949		



**SERVICE GROUNDING**  
N.T.S.

**POWER RISER DIAGRAM NOTES:**

- INSTALL METER ON POST PER FP&L REQUIREMENTS.
- SURGE PROTECTION DEVICE, PQ PROTECTION #PQC200.
- CONNECT GROUNDING ELECTRODE CONDUCTOR (GEC) TO GROUND RODS, BUILDING STEEL, METAL WATER SERVICE PIPE AND FOOTER STEEL. SEE DETAIL THIS SHEET.
- (2) PARALLEL RUNS OF 4 NO. 500 KCMIL - 3 1/2" C.
- 4 NO. 500 KCMIL AND 1 NO. 2 E.G. - 3 1/2" C.
- NEMA 3R, 800A-3P. SERVICE ENTRANCE RATED DISCONNECT SWITCH FUSED (DUAL ELEMENT) AT 800 AMPS.
- (2) PARALLEL RUNS OF 4 NO. 500 KCMIL AND 1 NO. 2 E.G. - 3 1/2" C.
- SURGE PROTECTION DEVICE, PQ PROTECTION #PQC100.
- 4 NO. 1 AND 1 NO. 8 E.G. - 2" C.
- 4 NO. 4 AND 1 NO. 8 E.G. - 1 1/4" C.
- 20kVA UPS (TOSHIBA #4400F3F300XA) WITH 20 MINUTE RUNTIME BATTERY CABINET (TOSHIBA #441B300027ER111). CONTACT: POWER LOGICS, INC. (813) 262-8167.
- (3) BREAKER DESIGN (22kA), MAKE BEFORE BREAK, MAINTENANCE BY-PASS SWITCH (TOSHIBA #MBSWH-500-F3-KK).
- UPS EMERGENCY POWER OFF BUTTON (RED) WITH CLEAR COVER. OPERATION OF BUTTON SHALL OPEN NORMAL UPS AND BY-PASS CIRCUIT BREAKERS.
- NEMA-3R, 800A-3P. DISCONNECT SWITCH. LABEL, "EMERGENCY GENERATOR DISCONNECT".
- SUPPLY/INSTALL KEY INTERLOCKING SYSTEM FOR MAIN CIRCUIT BREAKER AND EMERGENCY CIRCUIT BREAKER TO PREVENT DEVICES FROM BEING CLOSED SIMULTANEOUSLY. TO CLOSE ANY ONE DEVICE THE KEY IS INSERTED AND TURNED IN THAT PARTICULAR LOCK, THE KEY IS HELD IN THIS LOCK UNTIL THE DEVICE IS AGAIN LOCKED OPEN. ONLY ONE KEY IS REQUIRED FOR THIS SYSTEM AND ONE LOCK PER DEVICE. SEE LOAD SHED OPERATING INSTRUCTIONS THIS SHEET.
- AT PROJECT COMPLETION, CONTRACTOR SHALL ARRANGE A TEST OF THE EMERGENCY POWER SYSTEM WITH A 200KW PORTABLE GENERATOR. CONTRACTOR SHALL PROVIDE ANY NECESSARY CABLE ADAPTORS FOR GENERATOR CONNECTION AND TURN OVER TO OWNER AT COMPLETION OF TEST. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE PORTABLE GENERATOR FOR THE TEST AND THE SCHEDULING OF THE TEST.



3005 E. Edgewood Drive  
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33803-9001

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FX: (883) 865-6206  
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7	03.26.19	100% CD'S
8	04.19.19	PERMIT SET

**POWER  
RISER**

**E701**



DONALD J. NEWMAN P.E. 82387



PANEL		ME		VOLTAGE		120 / 208 V		SIZE		400A. MLO		CABINET		SURFACE		NEMA-1			
		PHASE		3		PH		4		W		RATING		42,000		AIC RATED			
NOTES	REMARKS	CKT.BKR.	VA PHASE LOAD			BUS	#	VA PHASE LOAD			CKT.BKR.	REMARKS	NOTES						
			AMPS	P	A			B	C	A				B	C	AMPS	P		
	V-11	30	2	2500			1	X			2	1500							
	V-12	20	2		2500		3	X			4	1500		1500					
	V-13	20	2	1500			5	X			6	1500		1500					
	V-14	20	2		1500		7	X			8	1500		1000					
	V-15	20	2	1000			9	X			10	1500		1000					
	V-16	20	2		1000		11	X			12	1500		7500					
	V-17	20	2	1000			13	X			14	1500		2500					
	V-18	20	2		1500		15	X			16	2500		2500					
	V-19	20	2	3000			17	X			18	4000		4000					
	V-20	20	2		3000		19	X			20	7500		2500					
	SPACE	1					21	X			22			2500					
	SPACE	1					23	X			24			2500					
	SPACE	1					25	X			26	4000							
	SPACE	1					27	X			28	4000							
	SPACE	1					29	X			30	2500		2500					
	SPACE	1					31	X			32	2500							
	SPACE	1					33	X			34	3500		3500					
	SPACE	1					35	X			36	4000		4000					
	SPACE	1					37	X			38	4000		4000					
	SPACE	1					39	X			40								
	SPACE	1					41	X			42								
	SPACE	1					43	X			44								
	SPACE	1					45	X			46								
	SPACE	1					47	X			48								
	SPACE	1					49	X			50								
	SPACE	1					51	X			52								
	SPACE	1					53	X			54								
	TOTAL			12500								22500		18000			18500		TOTAL

TABULATION	TOTAL LOAD	DEMAND FACTOR	DEMAND LOAD
MEASURED			
LIGHTING			
COOLING			
HEATING			
RECEPTACLE	93000	1.00	93000
MISCELLANEOUS			
KITCHEN EQUIP			
LARGEST MOTOR			
TOTAL DEMAND LOAD	93000 VA		
TOTAL DEMAND AMPS	258.1 A		

PANEL		UPS1		VOLTAGE		120 / 208 V		SIZE		100A. MLO		CABINET		SURFACE		NEMA-1		
		PHASE		3		PH		4		W		RATING		22,000		AIC RATED		
NOTES	REMARKS	CKT.BKR.	VA PHASE LOAD			BUS	#	VA PHASE LOAD			CKT.BKR.	REMARKS	NOTES					
			AMPS	P	A			B	C	A				B	C	AMPS	P	
	I.T. RECEPT.	20	1	800			1	X			2	1	SPACE					
	I.T. RECEPT.	20	1		800		3	X			4	1	SPACE					
	I.T. RECEPT.	20	1			800	5	X			6	1	SPACE					
	I.T. RECEPT.	20	1	800			7	X			8	1	SPACE					
	I.T. RECEPTS.	20	1		360		9	X			10	1	SPACE					
	SPARE	20	1				11	X			12	1	SPACE					
	SPARE	20	1				13	X			14	1	SPACE					
	SPARE	20	1				15	X			16	1	SPACE					
	SPARE	20	1				17	X			18	1	SPACE					
	SPARE	20	1				19	X			20	1	SPACE					
	SPARE	20	1				21	X			22	1	SPACE					
	SPARE	20	1				23	X			24	1	SPACE					
	SPARE	20	1				25	X			26	1	SPACE					
	SPARE	20	1				27	X			28	1	SPACE					
	SPARE	20	1				29	X			30	1	SPACE					
	SPARE	20	1				31	X			32	1	SPACE					
	SPARE	20	1				33	X			34	1	SPACE					
	SPARE	20	1				35	X			36	1	SPACE					
	SPARE	20	1				37	X			38	1	SPACE					
	SPARE	20	1				39	X			40	1	SPACE					
	SPARE	20	1				41	X			42	1	SPACE					
	TOTAL			1600								800						TOTAL

TABULATION	TOTAL LOAD	DEMAND FACTOR	DEMAND LOAD
MEASURED			
LIGHTING			
COOLING			
HEATING			
RECEPTACLE	3740	1.00	3740
MISCELLANEOUS			
KITCHEN EQUIP			
LARGEST MOTOR			
TOTAL DEMAND LOAD	3740 VA		
TOTAL DEMAND AMPS	10.4 A		

PANEL		UPS2		VOLTAGE		120 / 208 V		SIZE		100A. MLO		CABINET		SURFACE		NEMA-1		
		PHASE		3		PH		4		W		RATING		10,000		AIC RATED		
NOTES	REMARKS	CKT.BKR.	VA PHASE LOAD			BUS	#	VA PHASE LOAD			CKT.BKR.	REMARKS	NOTES					
			AMPS	P	A			B	C	A				B	C	AMPS	P	
	I.T. RECEPT.	20	1	800			1	X			2	1	SPACE					
	I.T. RECEPT.	20	1		800		3	X			4	1	SPACE					
	I.T. RECEPT.	20	1			800	5	X			6	1	SPACE					
	I.T. RECEPT.	20	1	800			7	X			8	1	SPACE					
	I.T. RECEPTS.	20	1		360		9	X			10	1	SPACE					
	SPARE	20	1				11	X			12	1	SPACE					
	SPARE	20	1				13	X			14	1	SPACE					
	SPARE	20	1				15	X			16	1	SPACE					
	SPARE	20	1				17	X			18	1	SPACE					
	SPARE	20	1				19	X			20	1	SPACE					
	SPARE	20	1				21	X			22	1	SPACE					
	SPARE	20	1				23	X			24	1	SPACE					
	SPARE	20	1				25	X			26	1	SPACE					
	SPARE	20	1				27	X			28	1	SPACE					
	SPARE	20	1				29	X			30	1	SPACE					
	SPARE	20	1				31	X			32	1	SPACE					
	SPARE	20	1				33	X			34	1	SPACE					
	SPARE	20	1				35	X			36	1	SPACE					
	SPARE	20	1				37	X			38	1	SPACE					
	SPARE	20	1				39	X			40	1	SPACE					
	SPARE	20	1				41	X			42	1	SPACE					
	TOTAL			1600								1160						TOTAL

TABULATION	TOTAL LOAD	DEMAND FACTOR	DEMAND LOAD
MEASURED			
LIGHTING			
COOLING			
HEATING			
RECEPTACLE	3560	1.00	3560
MISCELLANEOUS			
KITCHEN EQUIP			
LARGEST MOTOR			
TOTAL DEMAND LOAD	3560 VA		
TOTAL DEMAND AMPS	9.9 A		

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PANEL SCHEDULES

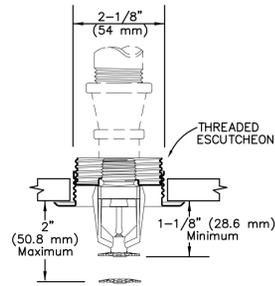
E802



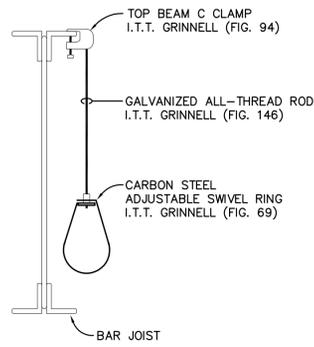
3005 E. Edgewood Drive  
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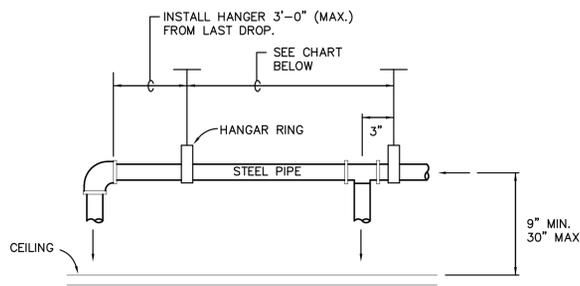
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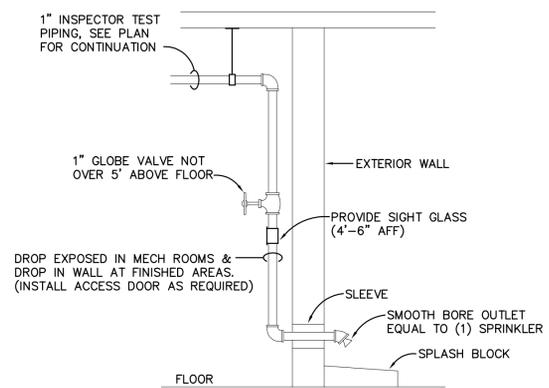
**RECESSED SPRINKLER HEAD DETAIL**  
NOT TO SCALE



**PIPE HANGER DETAIL**  
NOT TO SCALE

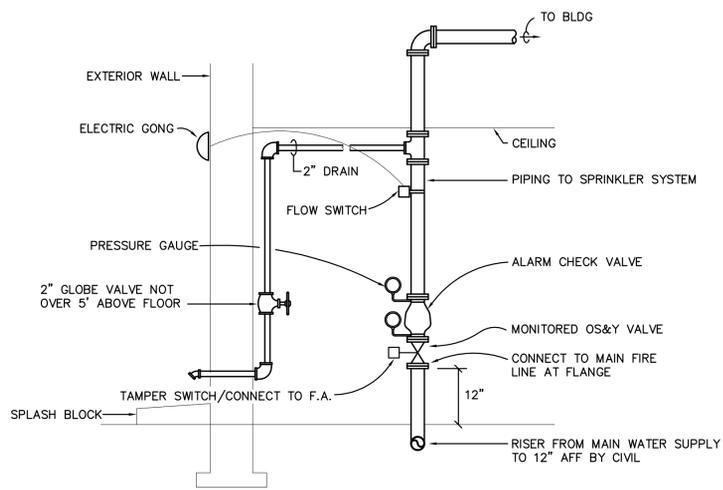


**PIPE HANGAR DETAIL**  
NOT TO SCALE



**INSPECTORS TEST**  
NOT TO SCALE

NOTE:  
1. DO NOT INSTALL SPLASH BLOCK AT SIDEWALK.



**SPRINKLER RISER**  
NOT TO SCALE

NOTES:  
1. THE FIRE DEPARTMENT CONNECTION LOCATION SHALL BE DETERMINED BY THE FIRE MARSHAL.  
2. DO NOT INSTALL SPLASH BLOCK AT SIDEWALK.

**FIRE PROTECTION DESIGN CRITERIA**

- LIGHT HAZARD OCCUPANCY.
- 200 SQUARE FEET – MAXIMUM SPRINKLER SPACING.
- PIPING SIZE: PIPE SCHEDULE METHOD NFPA 13 HYDRAULICALLY CALCULATED

**GENERAL NOTES: (FIRE SPRINKLERS)**

- SCOPE OF WORK: INCLUDE ALL COSTS TO PROVIDE A NEW FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE FLOOR PLAN; PROVIDE INSTALLATION DRAWINGS AND HYDRAULIC CALCULATIONS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
- SPRINKLER HEADS ARE TO BE LOCATED IN CENTER OF EACH CEILING TILE & 12" IN FROM THE END.
- THE SPACING OF SPRINKLER HEADS: THE SPACING AND SIZES OF PIPES SHALL CONFORM TO THE REQUIREMENTS OF N.F.P.A. PAMPHLET NO. 13 OR MANUFACTURER'S SPECIFICATIONS. SPRINKLERS SHALL BE INSTALLED BY PERSONNEL WHO HAVE ENGINEERING FACILITIES AND EXPERIENCE IN SUCH WORK AND WHO ARE REGULARLY EMPLOYED TO DO SUCH WORK.
- IN LOCATING SPRINKLER HEADS AND PIPING, CONTRACTOR SHALL COORDINATE THE SPRINKLER LAYOUT WITH THE LIGHTING AND AIR CONDITIONING LAYOUT.
- ALL MATERIAL SHALL BE OF APPROVED QUALITY AND THE WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER. THE WORK, MATERIALS AND TEST SHALL BE IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF NFPA PAMPHLET NO. 13 AND 14, LATEST EDITION.
- PIPING: 2 INCH OR SMALLER AND ALL THREADED PIPE SHALL BE BLACK STEEL SCHEDULE 40, ASTM A-795.
- FITTINGS: SCHEDULE 40 PIPE SHALL BE JOINED BY MECHANICAL COUPLINGS, THREADED FITTINGS.
- PIPE SUPPORTS: HANGERS, CLAMPS, RODS AND OTHER ACCESSORIES OF AN APPROVED TYPE AND IN SUFFICIENT NUMBER TO PROPERLY SUPPORT ALL PIPING SHALL BE FURNISHED AND INSTALLED. PIPING SHALL BE SUPPORTED BY ROUND WROUGHT U-TYPE APPROVED ADJUSTABLE HANGERS.
- SPRINKLER HEADS SHALL BE 1/2" ORIFICE TYPE OF ORDINARY DEGREE RATING EXCEPT WHERE EXCESSIVE TEMPERATURES ARE ANTICIPATED. IN THESE LOCATIONS HIGH TEMPERATURE HEADS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA NO. 13.
- PROVIDE AND MAINTAIN A MINIMUM OF 18 INCHES CLEARANCE BETWEEN THE BOTTOM OF THE SPRINKLER DEFLECTORS AND THE TOP OF STORAGE, FILES, ETC.
- REFER TO ARCHITECTURAL DOCUMENTS FOR LOCATIONS OF ALL SMOKE AND/OR FIRE WALLS WHICH FIRE PROTECTION PIPING PENETRATES AND PENETRATION DETAILS SHOWING THE MAINTAINING OF THE INTEGRITY OF THE SMOKE/FIRE RATINGS. FIRE PROTECTION PIPING SHALL BE SMOKE/FIRE SAFED IN AN APPROVED MANNER WHEN PENETRATING WALLS AND FLOOR.
- NEW SPRINKLERS MAY BE SUPPLIED BY THE TEES CUT INTO EXISTING DROPS.
- WHERE ABOVE GROUND WATER-FILLED SUPPLY PIPES, RISERS, SYSTEM RISERS, OR FEED MAINS PASS THROUGH OPEN AREAS, COLD ROOMS, PASSAGEWAYS, OR OTHER AREAS EXPOSED TO TEMPERATURES BELOW 40°F (4°C), THE PIPE SHALL BE PERMITTED TO BE PROTECTED AGAINST FREEZING BY INSULATING COVERINGS, FROST PROOF CASINGS, OR OTHER MEANS OF MAINTAINING A MINIMUM TEMPERATURE BETWEEN 40°F AND 120°F (4°C AND 48.9°C).

**FIRE SPRINKLER HEAD LEGEND**

- U UPRIGHT PENDANT FIRE SPRINKLER HEAD
- R NEW RECESSED TYPE SPRINKLER HEAD

**HANGER SPACING FOR STEEL FIRE SPRINKLER PIPING**

SIZE	PIPE TYPE	MAXIMUM SUPPORT SPACING
1"	40	12'-0"
1 1/4"	40	12'-0"
1 1/2"	40	15'-0"
2"	40	15'-0"
2 1/2"	10	15'-0"
3"	10	15'-0"
4"	10	15'-0"
6"	10	15'-0"

\* INFORMATION PER:  
NFPA 13 2007 EDITION (TABLE 9.2.2.1.a)  
MAX. DISTANCE BETWEEN HANGERS

MICHAEL CURKAN P.E. 45846



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NEW PROPERTY APPRAISER,  
TAX COLLECTOR & DRIVER'S LICENSE  
BUILDING for OKEECHOBEE BOCC  
OKEECHOBEE, FLORIDA 34972

STA PROJECT #: 1804

PROJECT MGR.: KM

#	DATE	ISSUED AS
1	08.30.18	SD DOCS.
2	09.06.18	SD DOCS, REV.
3	09.18.18	SD DOCS, REV.
4	09.18.18	SITE PLAN REV
5	11.07.18	DD DOCS.
6	02.12.19	90% CD'S
7	03.26.19	100% CD'S
8	04.19.19	PERMIT SET

FIRE PROTECTION  
NOTES, SCHEDULES,  
DETAILS AND  
LEGEND

FP100

**PYRAMID ENGINEERING**  
CONSULTING ENGINEERS

5596 Rio Vista Drive  
Clearwater, Florida 33760  
(727)531-2989 • Reg. No. EB6890  
pyramid@pyramidengineering.org



FIRE RISER WITH FIRE DEPARTMENT CONNECTION

INSPECTOR'S TEST

**FLOOR PLAN – FIRE PROTECTION**  
 SCALE: 1/8"=1'-0" /4127-FP200



MICHAEL CURKAN P.E. 45846

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**NEW PROPERTY APPRAISER,  
 TAX COLLECTOR & DRIVER'S LICENSE  
 BUILDING for OKEECHOBEE BOCC  
 OKEECHOBEE, FLORIDA 34972**

STA PROJECT #: 1804

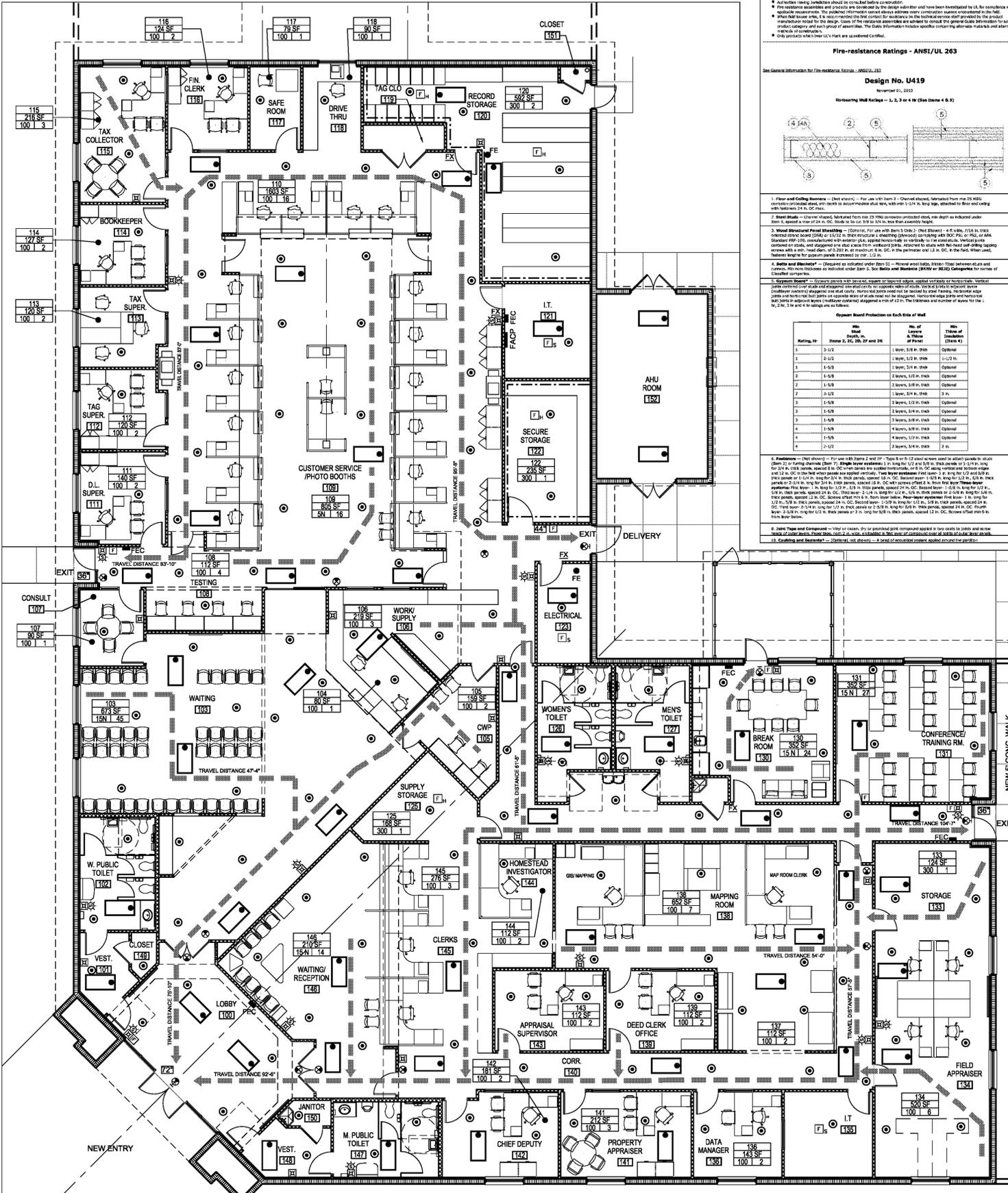
PROJECT MGR.: KM

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6	02.12.19	90% CD'S
7	03.26.19	100% CD'S
8	04.19.19	PERMIT SET

FIRE PROTECTION FLOOR PLAN

**PYRAMID ENGINEERING**  
 CONSULTING ENGINEERS  
 5596 Rio Vista Drive  
 Clearwater, Florida 33760  
 (727)531-2989 • Reg. No. EB6890  
 pyramid@pyramidengineering.org

**FP200**



**Design No. U419**  
 BKUV U419  
 Fire Resistance Ratings - ANSI/UL 263

**Design/System/Construction/Assembly Usage Disclaimer**

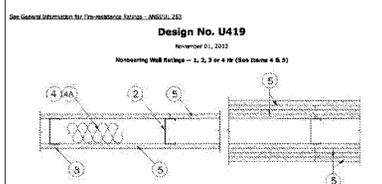
1. Fire-resistance ratings are based on the test results of the assemblies as shown on the drawings and are not intended to be used for any other purpose.

2. Fire-resistance ratings are based on the test results of the assemblies as shown on the drawings and are not intended to be used for any other purpose.

3. Fire-resistance ratings are based on the test results of the assemblies as shown on the drawings and are not intended to be used for any other purpose.

4. Fire-resistance ratings are based on the test results of the assemblies as shown on the drawings and are not intended to be used for any other purpose.

5. Fire-resistance ratings are based on the test results of the assemblies as shown on the drawings and are not intended to be used for any other purpose.



**Design No. U419**  
 November 01, 2012  
 Nonbearing Wall Ratings - 1, 2, 3, 4 & 5 (See Items 4 & 5)

**Fire-resistance Ratings - ANSI/UL 263**

The General Information for Fire-resistance Ratings - ANSI/UL 263

**Design No. U419**  
 November 01, 2012  
 Nonbearing Wall Ratings - 1, 2, 3, 4 & 5 (See Items 4 & 5)

**Fire-resistance Ratings - ANSI/UL 263**

The General Information for Fire-resistance Ratings - ANSI/UL 263

**Design No. U419**  
 November 01, 2012  
 Nonbearing Wall Ratings - 1, 2, 3, 4 & 5 (See Items 4 & 5)

Rating	Min. Thickness	Min. Depth	Min. Spacing	Min. Truss Depth	Min. Truss Spacing
1	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
2	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"
3	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3-1/2"
4	4-1/2"	4-1/2"	4-1/2"	4-1/2"	4-1/2"
5	5-1/2"	5-1/2"	5-1/2"	5-1/2"	5-1/2"

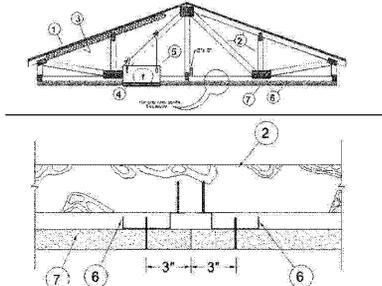
**Design No. P631**  
 January 07, 2019

**Unrestrained Assembly Rating - 1 Hr.**

**Finish Rating - 25 Min.** (See Items 3 or 3A and 7), **20 Min.** (See Items 3B and 7A)

**This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method).** For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used - See Guide BKUV or BKUV7

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



1. Floor and Ceiling Assemblies - (Not Shown) - For use with Item 3 - Channel studs, fabricated from min 25 MSQ steel, spaced 16 in. on center, with 1-1/2" gypsum board attached to floor and ceiling with min 1/4" thick screws.

2. Steel Beams - (Not Shown) - Fabricated from min 25 MSQ steel, spaced 16 in. on center, with 1-1/2" gypsum board attached to floor and ceiling with min 1/4" thick screws.

3. Wood Structural Framing - (Not Shown) - For use with Item 3 - Channel studs, fabricated from min 25 MSQ steel, spaced 16 in. on center, with 1-1/2" gypsum board attached to floor and ceiling with min 1/4" thick screws.

4. Beams and Brackets - (Not Shown) - For use with Item 3 - Channel studs, fabricated from min 25 MSQ steel, spaced 16 in. on center, with 1-1/2" gypsum board attached to floor and ceiling with min 1/4" thick screws.

5. Gypsum Board - (Not Shown) - For use with Item 3 - Channel studs, fabricated from min 25 MSQ steel, spaced 16 in. on center, with 1-1/2" gypsum board attached to floor and ceiling with min 1/4" thick screws.

6. Resilient Channels - (Not Shown) - For use with Item 3 - Channel studs, fabricated from min 25 MSQ steel, spaced 16 in. on center, with 1-1/2" gypsum board attached to floor and ceiling with min 1/4" thick screws.

7. Gypsum Board - (Not Shown) - For use with Item 3 - Channel studs, fabricated from min 25 MSQ steel, spaced 16 in. on center, with 1-1/2" gypsum board attached to floor and ceiling with min 1/4" thick screws.

8. Finishing System - (Not Shown) - Vinyl, dry or preformed joint compound, applied in two coats to joints and screwheads, paper tape 2 in. wide, embedded in first layer of compound over all joints. As an alternate, non 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

**BUILDING CODE DATA**

LOCATION: SECTION 15, TOWNSHIP 37 SOUTH, RANGE 35 EAST  
 OKEECHOBEE COUNTY, FLORIDA 34972

THIS BUILDING IS DESIGNED UNDER THE FOLLOWING CODES:  
 2017 FLORIDA BUILDING CODE - 8th EDITION  
 2017 FLORIDA ACCESSIBILITY CODE - 8th EDITION  
 FLORIDA FIRE PREVENTION CODE - 8th EDITION (2015 NFPA 1 UNIFORM FIRE CODE & 2015 NFPA 101 LIFE SAFETY CODE)

AHJ: CITY OF OKEECHOBEE BUILDING DEPARTMENT  
 OKEECHOBEE FIRE DEPARTMENT  
 SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD)

CODE ITEM:	PROVISION:
USE GROUP:	FEC 3 & 4 (BUSINESS)
OCCUPANCY SEPARATION:	NO SEPARATION REQUIRED
FBC TABLE 508.4	
CONSTRUCTION TYPE:	TYPE IIB
FBC TABLE 501	
AREA LIMITS: (FBC 506.2)	76,000 G.S.F. (WITH SPRINKLER INCREASE)
ALLOWABLE:	14,870 G.S.F.
OCCUPANT LOAD:	
FBC TBL 1004.1.2	
NEW BUSINESS:	202 OCC.
TOTAL:	202 OCC.

EGRESS WIDTH: (FBC 1005.5)	40.4' REQ'D / 216' PROVIDED
# OF EXITS (FBC TBL 1006.3.1.1)	2 REQ'D / 5 PROVIDED
EXIST ACCESS TRAVEL DISTANCE: (FBC TBL 1017.2)	116' PROVIDED / 300' MAX.
COMMON PATH OF TRAVEL: (FBC TBL 1006.2.1)	35' PROVIDED / 100' MAX.

FIRE SPRINKLER SYSTEM:	REQ'D / PROVIDED
SECTION 903	REQ'D / PROVIDED

EXIT ACCESS CORR RATING:	NOT REQ'D / NOT PROVIDED
TABLE 1020.1 & NFPA 308.3.6	NOT REQ'D / NOT PROVIDED

WIND LOAD DATA:	150 M.P.H. B
ULTIMATE WIND SPEED EXPOSURE CATEGORY	150 M.P.H. B

**PLUMBING FIXTURES COUNT (PER TABLE 403.1 FBC PLUMBING)**

BUSINESS	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
BUSINESS	3	5	3	5	5	8

**LIFE SAFETY LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL	FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET	FATC	FIRE ALARM TERMINAL CABINET
STC	SECURITY TERMINAL CABINET	STC	SECURITY TERMINAL CABINET
PIC	PICTOGRAPH BIN	PIC	PICTOGRAPH BIN
EW	EXIT WIDTH	EW	EXIT WIDTH
FD	FIRE DAMPER	FD	FIRE DAMPER
FM	FIRE SPRINKLER HEAD (SEE FIRE PROTECTION DETAILS)	FM	FIRE SPRINKLER HEAD (SEE FIRE PROTECTION DETAILS)
FSD	FIRE ALARM SMOKE DETECTOR	FSD	FIRE ALARM SMOKE DETECTOR
FMS </tr			

101 ROOM NUMBER  
 840 SF ROOM SQUARE FOOTAGE  
 20 42 ROOM OCCUPANT CAPACITY SQ FT per OCCUPANT



**FIRE EXTINGUISHER CABINET ELEVATION**  
 SCALE: 1/4"=1'-0"

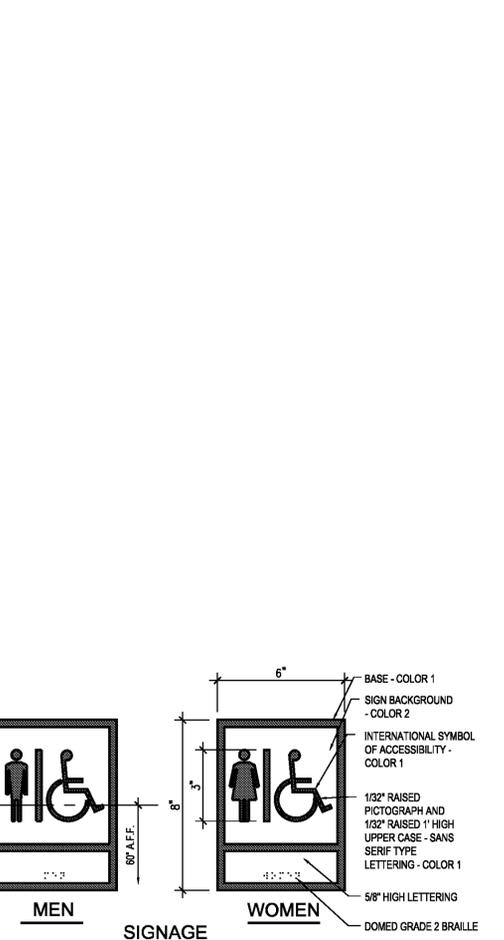
**LIFE SAFETY PLAN**  
 SCALE: 1/8"=1'-0"

**NEW PROPERTY APPRAISER, TAX COLLECTOR & DRIVER'S LICENSE BUILDING FOR OKEECHOBEE BOCC OKEECHOBEE, FLORIDA 34972**

STA PROJECT #: 1804

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**STRAUGHT TROUT ARCHITECTS**

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**LIFE SAFETY PLAN**

**G110**





**MECHANICAL GENERAL NOTES:**

- IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
- INTENT OF THESE NOTES AND MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT CONTRACTOR OF EXISTING CONDITIONS. CONTRACTOR TO VISIT SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE PROTECTION SUBCONTRACTOR BEFORE ANY CONSTRUCTION WORK.
- BIDDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS INVOLVING THE WORK.
- SHOULD ANY CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE CONFLICT BEFORE ANY CHANGES ARE MADE. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING WITH ANY CHANGES.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES INSTALLATION SCHEDULES. FIXED WORK SUCH AS DUCTWORK AND PLUMBING SHALL BE INSTALLED PRIOR TO ANY TRADE WORK THAT CAN BE EASILY RELOCATED OR OFFSET SUCH AS ELECTRICAL CONDUITS AND SMALL WATER LINES ETC.
- ALL AIR CONDITIONING WORK SHALL NOT INTERFERE WITH CLEARANCES REQUIRED FOR GENERAL AND MECHANICAL CONSTRUCTION. SHOULD AIR CONDITIONING WORK BE INSTALLED WHICH INTERFERES WITH THE WORK OF OTHER CONTRACTORS, SUCH WORK SHALL BE CHANGED AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK COVERED IN THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST PUBLISHED STANDARDS OF ASHRAE, AND NFPA.
- ALL MECHANICAL WORK SHALL MEET ALL THE REQUIREMENTS OF THE "FLORIDA BUILDING CODE 2017", 6TH EDITION.
- THE MECHANICAL CONTRACTOR SHALL CHECK ALL EQUIPMENT FOR CORRECT VOLTAGE RATING BEFORE INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR FOR THE ADVANCE ORDERING OF LONG LEAD ITEMS SO AS NOT TO DELAY OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT SPECIFIED AS SHOWN ON THE PLANS.
- ALL STRUCTURAL CUTTING AND PATCHING SHALL BE DONE BY THE GENERAL CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL ARRANGE TO PAY FOR ALL NECESSARY PERMITS, LICENSES AND INSPECTIONS AS REQUIRED BY THE CITY.
- ALL NEW MECHANICAL EQUIPMENT, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE.
- TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.
- TURNING VANES SHALL BE PROVIDED IN ALL SUPPLY AND RETURN DUCT RECTANGULAR ELBOWS WITH ANGLES BETWEEN 15 DEGREES AND LESS THAN 90 DEGREES PER FIG. 2-5 OF THE SMACNA MANUAL.
- DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED SHEET METAL CONSTRUCTION IN ACCORDANCE WITH LATEST SMACNA STANDARDS. ALL JOINTS & SEAMS SHALL BE SEALED WITH RCD CORPORATION #7 DUCT MASTIC.
- DUCT WRAP INSULATION SHALL BE 2.2" THICK FLEXIBLE FIBERGLASS, 0.75 PCF DENSITY.
- UNLESS OTHERWISE NOTED, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO BOTTOM OF STRUCTURE. COORDINATE DUCT ELEVATION WITH RAIN LEADERS, WATER PIPING, SANITARY DRAINS AND MAJOR ELECTRICAL CONDUITS.
- PROVIDE AND INSTALL MOTORIZED DAMPERS IN ALL OUTSIDE AIR DUCTS.
- MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 8'-0".
- VOLUME DAMPERS WITH LOCKING QUADRANTS SHALL BE INSTALLED IN ALL DUCT BRANCHES.
- FLEXIBLE DUCTWORK SHALL BE LOW PRESSURE FACTORY FABRICATED CONSISTING OF A ZINC-COATED SPRING STEEL HELIX, NON-PERFORATED INNER LINER AND 1" THICK FIBERGLASS INSULATION WITH METALIZED VAPOR BARRIER.
- COORDINATE AIR DEVICE LOCATIONS WITH LIGHTING FIXTURES AND FIRE SPRINKLER HEADS.
- ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.
- AT ALL INSPECTIONS MADE EITHER BY A REPRESENTATIVE OF THE AGENCY HAVING JURISDICTION OR BY THE ARCHITECT OR ENGINEER, THE MECHANICAL CONTRACTOR SHALL PROVIDE A LADDER OF SUFFICIENT SIZE IN ORDER TO BE INSPECTED. THE LADDER SHALL BE IN GOOD REPAIR AND BE POSITIONED IN PLACE BY THE MECHANICAL CONTRACTOR TO MEET ALL OSHA REQUIREMENTS. THE MECHANICAL CONTRACTOR SHALL ALSO PROVIDE A COMPLETE SET OF CONTRACT DOCUMENTS, AVAILABLE AT THE JOB SITE, AT THE TIME OF INSPECTION. THE CONTRACT DOCUMENTS SHALL INCLUDE:
  - WORKING DRAWINGS.
  - SPECIFICATIONS.
  - ALL APPROVED SHOP DRAWINGS.
  - ALL ADDENDA, CHANGE ORDER AND CORRESPONDENCE.
- AT THE CONCLUSION OF THE INSTALLATION THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A COMPLETE CERTIFIED TEST AND BALANCE REPORT FROM AN AGENCY HAVING A MINIMUM OF THREE YEARS EXPERIENCE. REPORT SHALL ITEMIZE THE PERFORMANCE OF EACH AIR DEVICE AND A/C UNIT WITH REGARD TO CFM, STATIC PRESSURE AND TEMPERATURE.
- MAINTAIN AS-BUILT DRAWINGS, DAILY. SUBMIT TO ARCHITECT/OWNER AFTER COMPLETION OF ALL WORK.

VARIABLE VOLUME BOX SCHEDULE											
MARK	-	V-1	V-2	V-3	V-4	V-5	V-6	V-7	V-8	V-9	V-10
CFM RANGE	MAX/MIN	500/175	520/175	225/80	520/175	3020/1050	935/330	1575/550	880/310	1200/420	1455/510
HEAT AIRFLOW	CFM	210	210	140	210	1050	350	560	350	490	560
INLET SIZE	INCHES	8	8	5	8	16	10	12	10	12	12
HEATER CAPACITY	KW	3	3	2	3	15	5	8	5	7	8
HEATER ELEC.	V/ø/HZ	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
NOISE CRITERIA (MAX)	NC	20	20	20	20	20	20	20	20	20	20
SIZE	-	8	8	5	8	16	10	12	10	12	12
MANUFACTURER	-	JCI	JCI	JCI	JCI	JCI	JCI	JCI	JCI	JCI	JCI
MODEL	-	SDR-EH	SDR-EH	SDR-EH	SDR-EH	SDR-EH	SDR-EH	SDR-EH	SDR-EH	SDR-EH	SDR-EH
NOTES	①	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤

MARK	-	V-11	V-12	V-13	V-14	V-15	V-16	V-17	V-18	V-19	V-20
CFM RANGE	MAX/MIN	1000/350	550/200	600/210	270/100	300/105	440/155	1125/400	700/250	395/140	170/60
HEAT AIRFLOW	CFM	350	210	210	140	140	210	420	350	210	140
INLET SIZE	INCHES	10	8	8	6	6	8	10	10	8	5
HEATER CAPACITY	KW	5	3	3	2	2	3	6	5	3	2
HEATER ELEC.	V/ø/HZ	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
NOISE CRITERIA (MAX)	NC	20	20	20	20	20	20	20	20	20	20
SIZE	-	10	8	8	6	6	8	10	10	8	5
MANUFACTURER	-	JCI									
MODEL	-	SDR-EH									
NOTES	①	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤	①③④⑤

- PROVIDE HEATER WITH FUSED, DOOR INTERLOCKED DISCONNECT SWITCH, THERMAL SAFETY CUT-OUTS, AIR FLOW SWITCH AND MAGNETIC CONTACTORS. ALL HEATERS 4.0 KW AND SMALLER ARE SINGLE STAGE; HEATERS 5.0KW AND LARGER SHALL BE 2-STAGE.
  - NC VALVE IS AT MINIMUM WORKING STATIC PRESSURE, MAXIMUM RATED AIRFLOW, AND AT UNIT DISCHARGE. NOTE: BLANK SPACE (--) INDICATES NC LEVEL LESS THAN 20.
  - PROVIDE PRESSURE INDEPENDENT CONTROL PACKAGE BY CONTROLS MANUFACTURER. CONTROLS MANUFACTURER SHALL PROVIDE CONTROL VOLTAGE TRANSFORMER AS REQUIRED. AIR FLOW SENSOR BY TERMINAL MANUFACTURER.
  - MINIMUM AIRFLOW FOR ELEC HEATER - 70 CFM/KW.
  - PROVIDE 1" THICK, 4.0 PCF THERMAL INSULATION WITH SOLID INNER LINER.
- \* APPROVED EQUALS: PRICE, METALAIRE AND TITUS.

**SPLIT SYSTEM A/C SCHEDULE**

AIR HANDLING UNIT DATA			
MARK	-	AHU-1	AHU-2
AREA SERVED	-	PROP. APPRAIS. TAX COLLECTOR	
TOTAL CAPACITY	BTUH	362,000	227,000
SENSIBLE CAPACITY	BTUH	262,700	158,200
SUPPLY AIR	CFM	10,135	5720
OUTSIDE AIR	CFM	1525	850
ENTERING AIR TEMP DB/WB	F/F	78.0/65.5	78.0/65.5
EXT. STATIC PRESSURE	IN. H <sub>2</sub> O	1.5	1.5
MOTOR	H.P.	15.0	10.0
ELECTRICAL	V/ø/HZ	208/3/60	208/3/60
HEATER	KW/STAGES	N/A	N/A
FILTER TYPE	-	2"-MERV 8	2"-MERV 8
WEIGHT	LBS.	2209	1506
MANUFACTURER	-	TRANE	TRANE
MODEL NO.	-	CSAA021	CSAA012
CONDENSING UNIT DATA			
MARK	-	CU-1A,1B	CU-2
OUTDOOR TEMP.	F	95	95
LIQUID LINE (SIZE)	IN. O.D.	③	③
SUCTION LINE (SIZE)	IN. O.D.	③	③
ELECTRICAL	V/ø/HZ	208/3/60	208/3/60
EER	-	12.8	12.0
M.C.A.	A	65 EACH	98
WEIGHT	LBS.	648	762
MANUFACTURER	-	TRANE	TRANE
MODEL NO.	-	TTA18043D	TTA24043D
NOTES	①	①②③④	①②③④

- VERTICAL DRAW THRU UNIT WITH FAN SECTION, VERTICAL COIL SECTION AND ANGLE FILTER SECTION. ALL SECTIONS SHALL BE DOUBLE WALL CONSTRUCTION WITH SOLID INNER LINER.
- PROVIDE WITH STAINLESS STEEL DRAIN PAN.
- PROVIDE WITH VFD (ABB OR APPROVED EQUAL).
- PROVIDE DUAL CIRCUIT COIL. PROVIDE HOT GAS BYPASS ON LEAD COIL.

**FAN SCHEDULE**

MARK	-	EF-1	EF-2	EF-3
SERVICE	-	EXHAUST	EXHAUST	EXHAUST
AREA SERVED	-	PUBLIC TOILETS	PUBLIC TOILETS	STAFF TOILETS
AIR QUANTITY	CFM	280	340	560
EXT. STATIC PRESS.	IN. H <sub>2</sub> O	0.50	0.50	0.50
FAN TYPE	-	PRV	PRV	PRV
DRIVE	-	DIRECT	DIRECT	DIRECT
SONES	-	7.6	7.6	7.5
MOTOR	H.P.	1/4	1/4	1/4
MOTOR SPEED	RPM	1500	1500	1300
ELECTRICAL	V/ø/HZ	120/1/60	120/1/60	120/1/60
CONTROL	-	EMS	EMS	EMS
MANUFACTURER	-	GREENHECK	GREENHECK	GREENHECK
MODEL	-	G085	G085	G095
NOTES	①	① ②	① ②	① ②

- PROVIDE AND INSTALL WITH DISCONNECT, BACKDRAFT DAMPER, INSULATED ROOF CURB AND BIRD SCREEN.
  - PROVIDE WITH VARI-GREEN MOTOR OPTION.
- \* APPROVED EQUALS SHALL BE COOK AND PENN.

**MECHANICAL LEGEND**

SYMBOL	DESCRIPTION
	NEW DUCTWORK, PIPING, OR EQUIPMENT
	FLEXIBLE DUCT
	SUPPLY OR OUTSIDE AIR DUCT SECTION
	RETURN DUCT SECTION
	EXHAUST DUCT SECTION
	DUCTWORK TRANSITION
	MANUAL AIR VOLUME CONTROL DAMPER
	SUPPLY AIR DEVICE. CLEAR TRIANGLE SIDES INDICATE AIR FLOW PATTERN
	RETURN AIR DEVICE
	EXHAUST AIR DEVICE OR FAN
	UNDERCUT DOOR 3/4"
	WALL MOUNTED THERMOSTAT
	FIRE DAMPER
	MOTORIZED DAMPER
	DUCT DETECTOR

**AIR DEVICE SCHEDULE**

MARK	TYPE	MATERIAL	FINISH	MANUFACTURER AND MODEL	REMARKS
AD-1	CEILING DIFFUSER	STEEL	WHITE BAKED ENAMEL	TITUS 350RL	①
AD-2	CEILING DIFFUSER	STEEL	WHITE BAKED ENAMEL	TITUS TMS	③
AD-3	CEILING RET./EXH.	STEEL	WHITE BAKED ENAMEL	TITUS 350RL	②
AD-4	CEILING RET./EXH.	STEEL	WHITE BAKED ENAMEL	TITUS 350RL	④

- PROVIDE 24x24 MODULE WITH ROUND DUCT TRANSITION. SEE FLOOR PLAN FOR NECK SIZES.
  - PROVIDE 24x24 MODULE WITH 22x22 NECK.
  - PROVIDE 12x12 MODULE WITH 6"ø ROUND NECK.
  - PROVIDE A 12x12 MODULE WITH 10x10 NECK.
- \* APPROVED EQUALS SHALL BE METALAIRE, PRICE, KRUEGER AND NAILOR.

**MINI-SPLIT SYSTEM A/C SCHEDULE**

AIR HANDLING UNIT DATA			
MARK	-	A/C-1	A/C-2
AREA SERVED	-	IT ROOM	IT ROOM
TOTAL CAPACITY	BTUH	12,000	12,000
SUPPLY AIR	CFM	370	370
ELECTRICAL	V/ø/HZ	208/1/60	208/1/60
FILTER TYPE	-	WASHABLE	WASHABLE
WEIGHT	LBS.	29	29
MANUFACTURER	-	MITSUBISHI	MITSUBISHI
MODEL NO.	-	PKA-A12HA4	PKA-A12HA4
CONDENSING UNIT DATA			
MARK	-	CCU-1	CCU-2
OUTDOOR TEMP.	F	95	95
LIQUID LINE (SIZE)	IN. O.D.	③	③
SUCTION LINE (SIZE)	IN. O.D.	③	③
ELECTRICAL	V/ø/HZ	208/1/60	208/1/60
SEER	-	15.2	15.2
M.C.A.	A	13	13
WEIGHT	LBS.	82	82
MANUFACTURER	-	MITSUBISHI	MITSUBISHI
MODEL NO.	-	PUY-A12NHA4	PUY-A12NHA4
NOTES	①	① ②	① ②

- PROVIDE AND INSTALL IN WALL MOUNTED CONFIGURATION.
  - PROVIDE WITH FACTORY THERMOSTAT AND CONDENSATE PUMP.
  - VERIFY WITH UNIT MANUFACTURER.
- \* APPROVED EQUALS SHALL BE DAIKIN AND SANYO.

MICHAEL CURKAN P.E. 45846



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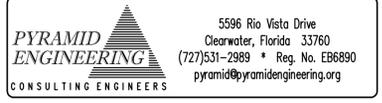
NEW PROPERTY APPRAISER,  
 TAX COLLECTOR & DRIVER'S LICENSE  
 BUILDING FOR OKEECHOBEE BOCC  
 OKEECHOBEE, FLORIDA 34972

STA PROJECT #: 1804

PROJECT MGR.: KM

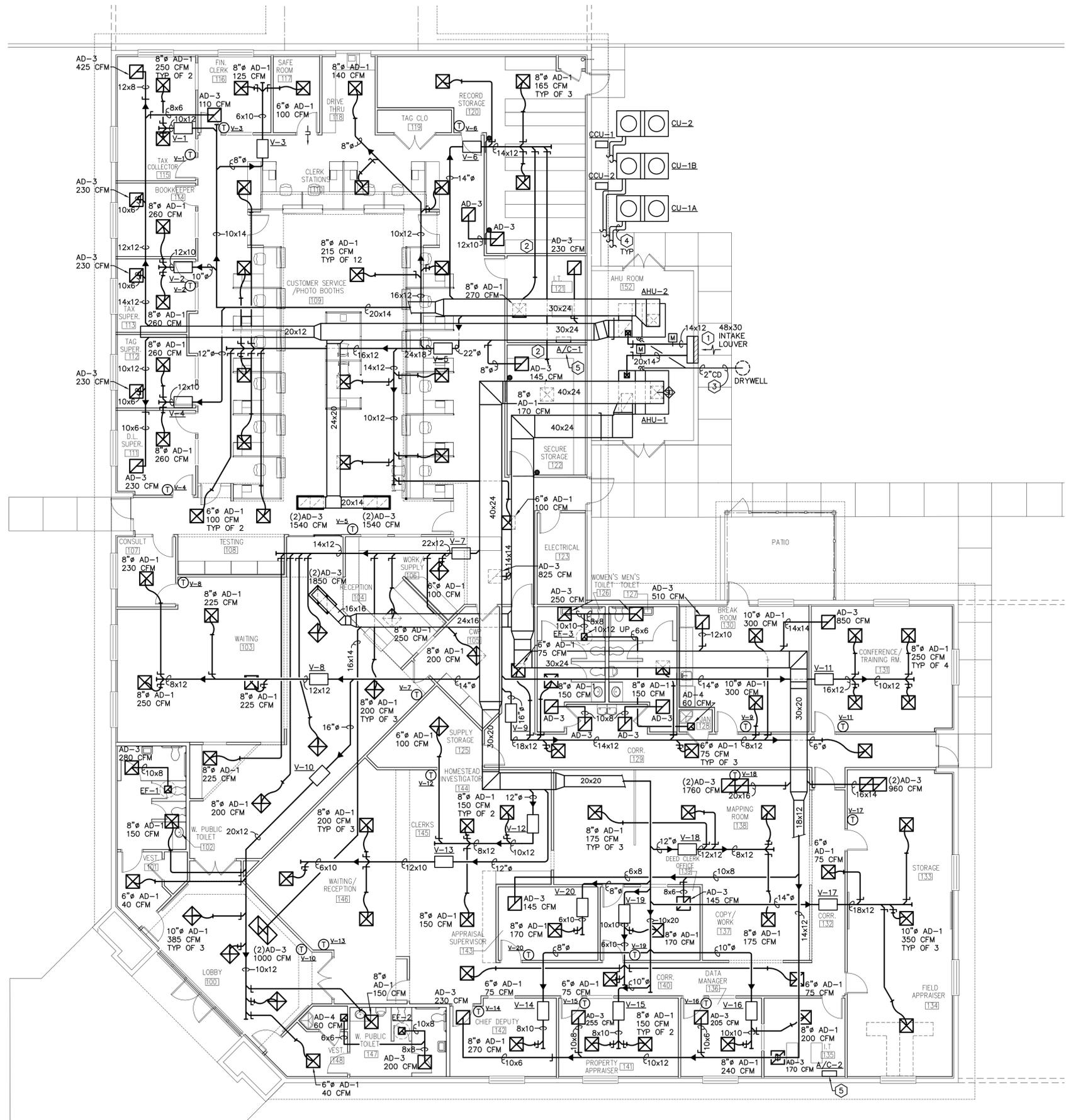
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3	09.18.18	SD DOCS, REV.
4	09.18.18	SITE PLAN REV
5	11.07.18	DD DOCS.
6	02.12.19	90% CD'S
7	03.26.19	100% CD'S
8	04.19.19	PERMIT SET

MECHANICAL NOTES, SCHEDULES AND LEGEND



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 Clearwater, Florida 33780  
 (727)531-2989 • Reg. No. EB6890  
 pyramid@pyramidengineering.org

M100



**HVAC CONTROLS SCOPE OF WORK**

PROVIDE AND INSTALL A COMPLETE, TURN-KEY WEB-BASED, DDC HVAC CONTROL SYSTEM TO CONTROL ALL HVAC UNITS ASSOCIATED WITH THIS PROJECT. THIS WORK WILL INCLUDE ALL:

CONTROLLERS  
 SENSORS, BOTH DUCT MOUNTED AND ROOM MOUNTED  
 ACTUATORS  
 HEAD-IN HARDWARE  
 WIRING AND CONDUIT  
 PROGRAMMING AND GRAPHICS  
 AND TWO (2) 8 HOUR TRAINING SESSIONS

ACCEPTABLE MANUFACTURERS TO PROVIDE THIS WORK ARE:

1. TRANE
2. SIEMENS

**FLOOR PLAN - MECHANICAL**

SCALE: 1/8"=1'-0" /4127-M200

- MECHANICAL NOTES:**
- 1 INTAKE LOUVER SHALL BE GREENHECK MODEL EVH-501D (OR APPROVED EQUAL). PROVIDE WITH BIRD SCREEN AND FULL SIZE, 12" DEEP PLENUM. VERIFY COLOR WITH PROJECT ARCHITECT.
  - 2 DUCTS LESS THAN 100 SQUARE INCHES MAY PENETRATE A RATED WALL IF ITS IN COMPLIANCE WITH SECTION 607.5.3.3 OF THE FLORIDA MECHANICAL CODE.
  - 3 ROUTE CONDENSATE TO BUILDING EXTERIOR, BELOW SIDEWALK AND DRAIN TO DRYWELL.
  - 4 ROUTE REFRIGERANT LINES ABOVE GRADE TO AIR HANDLERS.
  - 5 ROUTE CONDENSATE TO BUILDING EXTERIOR AND DRAIN TO GRADE.

MICHAEL CURKAN P.E. 45846

**STRAUGHN TROUT ARCHITECTS**

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 Lakeland, Florida USA 33803-9001

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 OKEECHOBEE, FLORIDA 34972**

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PROJECT MGR.: KM

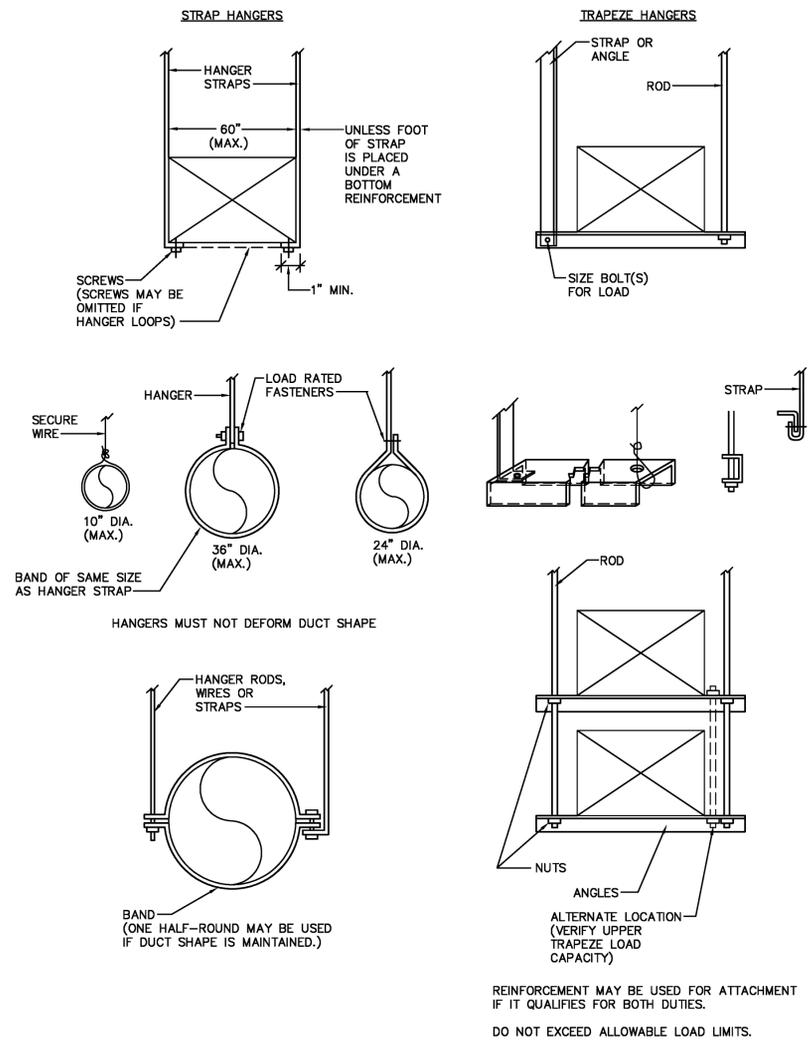
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MECHANICAL FLOOR PLAN

**PYRAMID ENGINEERING**  
 CONSULTING ENGINEERS

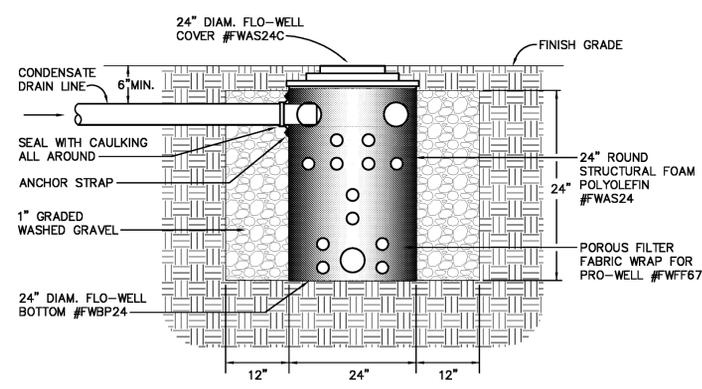
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**M200**



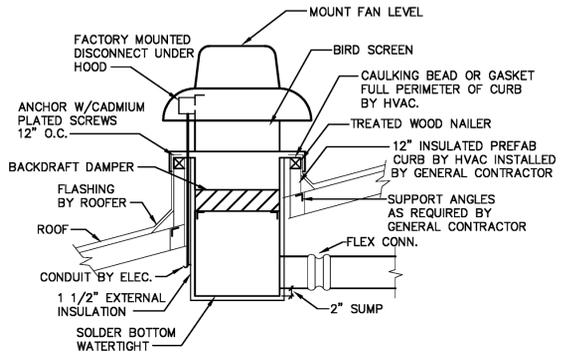
**NOTE:**  
REFER TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS MANUAL, CHAPTER 4.

**LOWER HANGER ATTACHMENTS**  
NOT TO SCALE

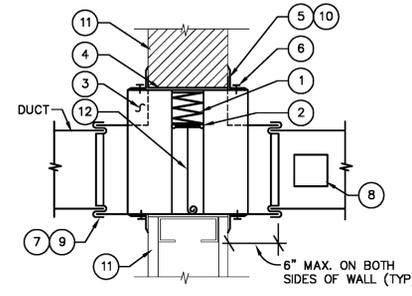


**DRYWELL DETAIL**  
NOT TO SCALE

**NOTE:**  
LID SHALL HAVE HOLE IN TOP FOR VENTING & ACCESS PURPOSES. SOLID COVER WILL NOT BE ACCEPTABLE.

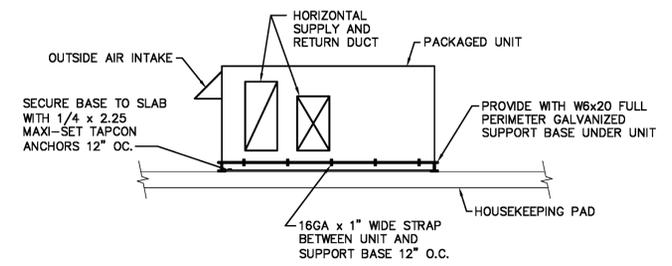


**ROOF EXHAUST FAN DETAIL**  
NOT TO SCALE

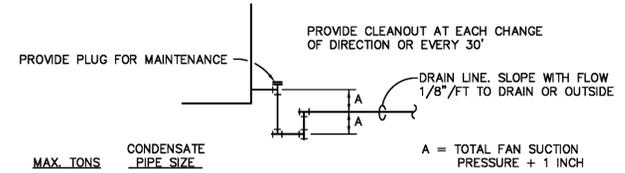


**AUTOMATIC FIRE DAMPER DETAIL**  
NOT TO SCALE

- NOTES:**
- THE FIRE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L. MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.
  - FUSIBLE LINK, REFER TO SPECIFICATIONS.
  - REFER TO SMACNA, NFPA 90A AND MANUFACTURER'S RECOMMENDATIONS FOR SLEEVE GAUGES.
  - CLEARANCE REQUIREMENTS FOR DAMPER SLEEVES WITHIN A WALL OPENING ARE BASED ON 1/8" PER FOOT OF WIDTH (OR HEIGHT) UNLESS OTHERWISE STATED IN THE ASSEMBLY. COORDINATE WITH CONTRACTOR THE PICTURE FRAME OPENINGS IN STUD FRAME RATED WALLS PRIOR TO INSTALLATION DAMPER AND SLEEVE.
  - RETAINING ANGLES, MINIMUM 1-1/2"x1-1/2"x16 GAUGE, MUST OVERLAP THE STRUCTURAL OPENING ON ALL FOUR SIDES OF SLEEVE AND DAMPER BY A MINIMUM OF ONE INCH, AND COVER THE CORNERS OF THE OPENINGS. REPEAT THIS ON BOTH SIDES OF RATED WALL.
  - SECURE RETAINING ANGLES TO THE SLEEVE ON 8" CENTERS WITH ONE OF THE FOLLOWING METHODS: 1/4" BOLTS AND NUTS, OR NO. 10 STEEL SCREWS, OR 1/2" LONG WELDS OR 3/16" STEEL RIVETS.
  - CONNECT DUCT TO SLEEVE IN AN APPROVED BREAKAWAY TYPE CONNECTION.
  - ACCESS DOOR OR PANEL SHALL BE INSTALLED FOR THE PRESSURE CLASSIFICATIONS AND CONSTRUCTION STANDARDS REQUIRED AND LARGE ENOUGH TO USE TWO HANDS TO PERMIT MAINTENANCE AND RESETTING OF THE DEVICES. PROVIDE TWO ACCESS DOORS IF NECESSARY. THE ACCESS DOOR LOCATION SHALL BE FREE OF OBSTRUCTION AND FULLY ACCESSIBLE.
  - AFTER THE SLEEVE HAS BEEN CONNECTED TO THE DUCTWORK WITH THE BREAKAWAY CONNECTIONS AS LISTED ABOVE, AND THE DUCTWORK IS PROPERLY SUPPORTED, REMOVE THE CONSTRUCTION SCREWS FROM THE BREAKAWAY CONNECTIONS. SEAL DUCTWORK AND INSULATE WHERE REQUIRED.
  - MULTIPLE DUCTS PENETRATING A SECTION OF RATED WALL SHALL HAVE A MINIMUM CLEARANCE OF SIX (6") INCHES BETWEEN DUCTS.
  - REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION AND RATING.
  - CLOSURE SPRING

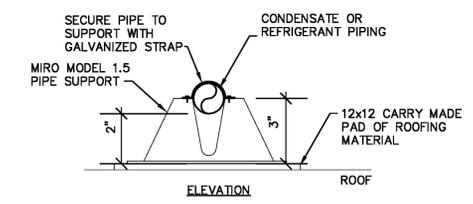


**PACKAGE UNIT MOUNTING DETAIL**  
NOT TO SCALE

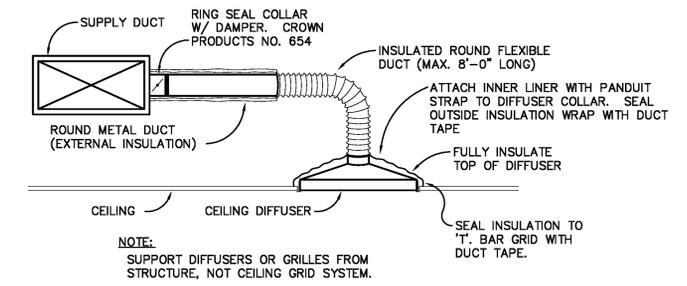


MAX. TONS	CONDENSATE PIPE SIZE
2	3/4"
5	1"
30	1 1/4"
50	1 1/2"

**CONDENSATE DRAIN TRAP DETAIL**  
NOT TO SCALE



**CONDENSATE PIPE SUPPORT DETAIL**  
NOT TO SCALE



**NOTE:**  
SUPPORT DIFFUSERS OR GRILLES FROM STRUCTURE, NOT CEILING GRID SYSTEM.

**CEILING DIFFUSER RUNOUT DETAIL**  
NOT TO SCALE

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BUILDING for OKEECHOBEE BOCC  
OKEECHOBEE, FLORIDA 34972

STA PROJECT #: 1804

PROJECT MGR.: KM

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1	08.30.18	SD DOCS.
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MECHANICAL  
DETAILS

**PYRAMID ENGINEERING**  
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**M300**

PLUMBING FIXTURE AND PIPE SIZING SCHEDULE						
MARK	FIXTURE	TRAP	VENT	COLD	HOT	DESCRIPTION
P-1	WATER CLOSET BARRIER FREE	INTEGRAL	AS SHOWN ON PLANS	1"	----	<p><b>WATER CLOSET:</b> FLOOR MOUNTED, FLUSH VALVE, ELONGATED, WHITE VITREOUS CHINA, SIPHON JET, 1 1/2" TOP SPUD, BOLT CAPS, 1.28 GPF, 16 1/2" HIGH (MIN.)</p> <p><b>FLUSH VALVE:</b> NON-HOLD OPEN, LOW FORCE, ADA COMPLIANT HANDLE, EXPOSED DIAPHRAGM, 1" IPS SCREWDRIVER ANGLE STOP WITH PROTECTIVE CAP, VACUUM BREAKER FLUSH CONN., ADJUSTABLE TAILPIECE, 1 1/2" TOP SPUD, CAST WALL FLANGE WITH SET SCREW AND SWEAT SOLDER ADAPTER CONTROLS FOR FLUSH VALVE SHALL BE MOUNTED ON WIDE SIDE OF TOILET AREAS.</p> <p><b>SEAT:</b> FINISH WHITE, EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT LESS COVER, SELF-SUSTAINING STAINLESS STEEL CHECK HINGE, TOP OF SEAT 17 1/2" (MIN.)</p> <p><b>AMERICAN STANDARD</b> MADERA NO. 3043.001 KOHLER HIGHLINE NO. K-4405</p> <p><b>SLOAN-ROYAL</b> NO. 111-1.28 ZURN AQUAVANTAGE NO. 26000AV-HET</p> <p><b>OLSONITE</b> NO. 955SCT BEMIS NO. 1655SSC</p>
P-2	WATER CLOSET	INTEGRAL		1"	----	<p><b>WATER CLOSET:</b> FLOOR MOUNTED, FLUSH VALVE, ELONGATED, WHITE VITREOUS CHINA, SIPHON JET, 1 1/2" TOP SPUD, BOLT CAPS, 1.28 GPF, 15" HIGH</p> <p><b>FLUSH VALVE:</b> NON-HOLD OPEN, EXPOSED DIAPHRAGM, 1" IPS SCREWDRIVER ANGLE STOP WITH PROTECTIVE CAP, VACUUM BREAKER FLUSH CONN., ADJUSTABLE TAILPIECE, 1 1/2" TOP SPUD, CAST WALL FLANGE WITH SET SCREW AND SWEAT SOLDER ADAPTER</p> <p><b>SEAT:</b> FINISH WHITE, EXTRA HEAVY DUTY PLASTIC FOR ELONGATED BOWL, OPEN FRONT LESS COVER, SELF-SUSTAINING STAINLESS STEEL CHECK HINGE, TOP OF SEAT 16" AFF</p> <p><b>AMERICAN STANDARD</b> MADERA NO. 2234.001 KOHLER WELLWORTH NO. K-4406</p> <p><b>SLOAN-ROYAL</b> NO. 111-1.28 ZURN AQUAVANTAGE NO. 26000AV-HET</p> <p><b>OLSONITE</b> NO. 955SCT BEMIS NO. 1655SSC</p>
P-3	URINAL BARRIER FREE	INTEGRAL		3/4"	----	<p><b>URINAL:</b> WALL MOUNTED, WHITE VITREOUS CHINA, SIPHON JET WITH FLUSHING RIM, 0.5 GPF, 3/4" INLET SPUD, MOUNT RIM AT 16 1/2" A.F.F.</p> <p><b>FLUSH VALVE:</b> NON-HOLD OPEN HANDLE, EXPOSED DIAPHRAGM, 3/4" IPS SCREWDRIVER ANGLE STOP WITH PROTECTIVE CAP, VACUUM BREAKER FLUSH CONN., ADJUSTABLE TAILPIECE, 3/4" TOP SPUD, SWEAT SOLDER ADAPTER</p> <p><b>CARRIER:</b> DURA-COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES AND MOUNTING FASTENERS</p> <p><b>AMERICAN STANDARD</b> WASHBROOK NO. 6590.001 KOHLER BARDON NO. K-4991-ET</p> <p><b>SLOAN-ROYAL</b> NO. 186-0.5 ZURN AQUAVANTAGE NO. 26003AV-EWS</p> <p><b>STUD WALLS</b> ZURN NO. Z-1222 WATTS NO. CA-321 J. R. SMITH NO. 637</p> <p><b>BLOCK WALLS</b> ZURN NO. Z-1259 WATTS NO. CA-481</p>
P-4	LAVATORY BARRIER FREE	1 1/4"		1/2"	1/2"	<p><b>LAVATORY:</b> WALL HUNG, 20x18, WHITE VITREOUS CHINA, FRONT OVERFLOW AND HOLES ON 4" CENTERS, RIM 33 1/2" AFF</p> <p><b>TRIM:</b> LAVATORY FAUCET, WITH 4" CENTERS, 5" SPOUT, SINGLE LEVER HANDLE PERFORATED GRID DRAIN WITH OFFSET 1 1/4" TAIL PIECE, PROVIDE STOPS, SUPPLIES, TRAP, ETC. TO MAKE A COMPLETE INSTALLATION. PROVIDE WITH 0.5 GPM FLOW CONTROL AERATOR.</p> <p><b>CARRIER:</b> DURA-COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE TOP SUPPORT PLATE, MOUNTING FASTENERS, CONCEALED ARMS, STEEL SLEEVES &amp; ALIGNMENT TRUSS</p> <p><b>AMERICAN STANDARD</b> LUCERNE NO. 0355.012 KOHLER KINGSTON NO. K-2005</p> <p><b>CHICAGO</b> NO. 2200-4ABCP DELTA NO. 501LF-HDF</p> <p><b>STUD WALLS</b> ZURN NO. Z-1231 WATTS NO. TCA-411 J. R. SMITH NO. 700</p> <p><b>BLOCK WALLS</b> ZURN NO. Z-1251 WATTS NO. CA-462</p>
P-5	LAVATORY	1 1/4"		1/2"	1/2"	<p><b>LAVATORY:</b> COUNTERTOP, 20"x17", OVAL, WHITE VITREOUS CHINA, FRONT OVERFLOW, SELF-RIMMING, AND HOLES ON 4" CENTERS</p> <p><b>TRIM:</b> LAVATORY FAUCET, WITH 4" CENTERS, 4" BLADE HANDLES, PERFORATED GRID DRAIN WITH 1 1/4" TAIL PIECE, PROVIDE STOPS, SUPPLIES, TRAP, ETC. TO MAKE A COMPLETE INSTALLATION. PROVIDE WITH 0.5 GPM FLOW CONTROL AERATOR.</p> <p><b>AMERICAN STANDARD</b> AQUALYN NO. 0476.028 TOTO NO. LT401.4</p> <p><b>DELTA</b> NO. 21C152 CHICAGO NO. 802-V317CP</p>
P-6	SINK	1 1/2"		1/2"	1/2"	<p><b>SINK:</b> COUNTER MOUNTED, SINGLE COMPARTMENT 18 GAUGE TYPE 304 STAINLESS STEEL, 22"x22"x7 1/2" SELF-RIMMING, HOLES ON 8" CENTERS</p> <p><b>TRIM:</b> SINK FAUCET, 8" SWIVEL SPOUT W/AERATOR, METAL LEVER HANDLE, INSTALL STAINLESS STEEL DRAIN WITH REMOVABLE CRUMB CUP STRAINER, PROVIDE STOPS, SUPPLIES, TRAP, ETC. TO MAKE A COMPLETE INSTALLATION.</p> <p><b>JUST</b> NO. SL-2222-A-CR ELKAY NO. LR2222</p> <p><b>CHICAGO</b> NO. 2300-8CP DELTA NO. 100LF-HDF</p>

PLUMBING FIXTURE AND PIPE SIZING SCHEDULE						
MARK	FIXTURE	TRAP	VENT	COLD	HOT	DESCRIPTION
P-7	SERVICE SINK	3"	AS SHOWN ON PLANS	1/2"	1/2"	<p><b>SINK:</b> FLOOR MOUNTED, CORNER 24"x24"x12" WITH 6" DROP FRONT, PEARL GREY MARBLE CHIPS AND WHITE PORTLAND CEMENT GROUND SMOOTH, STAINLESS STEEL CAP ON THRESHOLD, PROVIDE 3/8" RUBBER HOSE, WITH STAINLESS STEEL WALL CLIP, AND 24"x3" STAINLESS STEEL, MOP HOLDER, SILICONE SEALANT.</p> <p><b>TRIM:</b> SINK FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS AND ROUGH CHROME FINISH, SEAL WALL WITH SILICONE SEALANT. INSTALL FAUCET 36" AFF</p> <p><b>STERN-WILLIAMS</b> NO. SBC-1700 FIAT NO. TSBC-1610</p> <p><b>CHICAGO</b> NO. 897-RCF DELTA NO. 28C2383</p>
P-8	ELECTRIC WATER COOLER BI-LEVEL	1 1/4"		1/2"	----	<p><b>EW-C:</b> 8.1 GPH - BASED ON 80" INLET AND 50" DRINKING WATER TEMP. 1/6 HP COMPRESSOR @ 120V. LIGHT TOUCH PRESSBAR, OPERABLE FROM BOTH SIDES OR FRONT, POLISHED CHROME PLATED BRASS, COLOR OF CABINET AS DIRECTED BY ARCHITECT. PROVIDE TRAP, DRAIN, SUPPLIES, ETC. TO MAKE A COMPLETE INSTALLATION</p> <p><b>CARRIER:</b> DURA-COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, ADJUSTABLE SUPPORT PLATES, MOUNTING FASTENERS, AND BI-LEVEL CONFIGURATION</p> <p><b>ELKAY</b> NO. EZSTL8C OASIS NO. PBMSL (VERSACOOLER SPLT-LEVEL)</p> <p>INSTALL WITH THE LEFT SIDE UNIT LOW.</p> <p><b>ZURN</b> NO. Z-1225-BL WATTS NO. CA-321 J. R. SMITH NO. 0832</p>
P-11	ICE MAKER HOOK-UP	----		1/2" (3/8" OUT)	----	<p><b>ICE MAKER HOOK-UP</b> 4.25"Wx4.75"Hx2"D METAL ICE MAKER OUTLET BOX</p> <p><b>GUY GRAY</b> NO. MDWB5AB</p>
P-12	HOSE BIBB (OUTSIDE)	----		1/2"	----	<p><b>HOSE BIBB:</b> ANTI-SILL BILL FAUCET, VACUUM BREAKER, 3/4" HOSE OUTLET, LOCK SHIELD CAP, REMOVABLE T-HANDLE, 1/2" FLANGED FEMALE INLET WITH ROUGH CHROME FINISH</p> <p><b>WOODFORD</b> NO. 24-RB</p>

WATER HEATER SCHEDULE				
MARK	FIXTURE	COLD	HOT	DESCRIPTION
WH-1	ELECTRIC WATER HEATER	3/4"	3/4"	<p><b>WATER HEATER:</b> ELECTRIC HEATER, 208V-1Ø, 4.5 KW, 20 GALLON TANK CAPACITY, ANODE ROD, BRASS DRAIN VALVE AND ASME T&amp;P RELIEF VALVE SET TEMPERATURE AT 120°F.</p> <p><b>A. O. SMITH</b> NO. DEL-20S-4.5 RHEEM/RUUD STATE</p>

PLUMBING ACCESSORY SCHEDULE			
MARK	FIXTURE	DESCRIPTION	APPROVED MANUFACTURERS
WCO	WALL CLEANOUT	<p><b>WALL CLEANOUT:</b> CAST IRON BODY, GAS AND WATERTIGHT THREAD PLUG, 6"Ø SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW</p> <p><b>ZURN</b> NO. Z1445 (CLEANOUT TEE) NO. Z1469 (COVER) WADE J.R. SMITH</p>	
ECO	EXTERIOR CLEANOUT	<p><b>EXTERIOR CLEANOUT:</b> HEAVY DUTY DURA-COATED CAST IRON BODY WITH ROUND CAST IRON SCORIATED TOP, ADJUSTABLE GAS AND WATER TIGHT BRONZE THREADED PLUG</p> <p><b>ZURN-LC</b> NO. C02510-P04 WATTS NO. C05-2-NH</p>	
RP	HOT WATER RECIRCULATION PUMP	<p><b>RECIRCULATION PUMP:</b> INLINE CENTRIFUGAL, ALL BRONZE CONSTRUCTION, 1/12 HP, 120V-1Ø, 5 GPM AT 17 FEET OF HEAD</p> <p><b>GRUNDFOS</b> NO. UP25-64-SU</p>	

MIXING VALVE SCHEDULE				
MANUFACTURER	MODEL SERIES	TEMP. SETTING	ASSE LISTING	SERVES
WATTS	LMMV	110°F	1070	BREAK ROOM SINK (LOCATE BELOW SINK IN CABINET)
WATTS	LMMV	104°F	1070	LAVATORIES (LOCATE BELOW LAV'S WITH ACCESS PANEL)

\*APPROVED EQUALS SHALL BE ZURN, SYMMONS AND BRADLEY

**PLUMBING FIXTURE NOTES:**

- MOUNTING HEIGHT AS SCHEDULED OR DETAILED.
- TRAPS, SUPPLIES AND ALL OTHER EXPOSED PIPING SHALL BE CAST BRASS WITH A POLISHED CHROME FINISH. ACCEPTABLE MANUFACTURERS INCLUDE MCGUIRE OR APPROVED EQUAL.
- ALL EXPOSED PIPING BELOW WALL MOUNTED LAVATORIES SHALL BE INSTALLED WITH ADA COMPLIANT PIPE WRAP KIT. SYSTEM SHALL BE PVC RESIN SEAMLESS CONSTRUCTION MFG BY PRO-WRAP OR APPROVED EQUAL.
- MAINTAIN 1 1/2" (MIN) CLEAR FROM THE BOTTOM OF GRAB BAR AND TOP OF FLUSH VALVE.
- FAUCETS WITH WRIST BLADE HANDLES SHALL PROVIDE 1/4 TURN FULL OPEN TO FULL CLOSED OPERATION.
- WALL MOUNTED LAVATORIES, AND WATER COOLERS SHALL BE INSTALLED WITH FLOOR MOUNTED CARRIERS AT ALL LOCATIONS.
- PROVIDE FLUSH CONTROLS ON THE WIDE SIDE OF TOILETS.

**PLUMBING GENERAL NOTES:**

- CONTRACTOR SHALL PROVIDE COMPLETE PLUMBING SYSTEMS AS DETAILED. WORK CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT, AND SERVICES REQUIRED FOR COMPLETE SYSTEMS.
- CONTRACTOR SHALL COORDINATE ALL PIPING LOCATIONS AND INVERT ELEVATIONS WITH FOOTINGS AND FOUNDATIONS BEFORE INSTALLING AND ADJUST AS REQUIRED.
- ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER PLUMBING DRAWINGS WITH REFERENCE TO BUILDING CONSTRUCTION. PLUMBING DRAWINGS (PLANS, DIAGRAMS, ETC.) ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED. THE CONTRACTOR SHALL COORDINATE ALL WORK UNDER THIS CONTRACT.
- IF ANY DISCREPANCIES SHOULD EXIST THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO BIDDING.
- COORDINATE WORK WITH OTHER TRADES TO AVOID CONFLICTS.
- NECESSARY REQUIRED PLUMBING ITEMS THAT ARE NOT SHOWN ON THE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO INSTALL A COMPLETE OPERATING PLUMBING SYSTEM.
- ALL NEW PLUMBING EQUIPMENT, MATERIALS, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.
- WATER PIPING BELOW GRADE SHALL BE: TYPE-K COPPER WITH SOLDERED FITTINGS AND JOINTS.
- WATER PIPING ABOVE GRADE SHALL BE: TYPE-L COPPER WITH SOLDERED FITTINGS AND JOINTS, OR CHLORINATED POLYVINYL CHLORIDE (CPVC), SDR 11, ASTM D-2846, RATED AT A CONTINUOUS WORKING PRESSURE OF 100 PSI AT 180°F. FITTING SHALL SOLVENT WELDED WITH AN ASTM APPROVED SOLVENT SYSTEM. PROVIDE MANUFACTURED ELBOWS AT ALL CHANGES IN DIRECTION.
- COPPER PIPING INSTALLED WITHIN BLOCK WALLS OR IN CONTACT WITH CONCRETE SHALL BE INSTALLED WITH 4 MIL POLYETHYLENE PIPE GUARD. BLUE FOR COLD WATER AND RED FOR HOT WATER.
- UNLESS OTHERWISE NOTED ALL PIPING SHALL BE RUN IN CONCEALED SPACES.
- INSULATE ALL HOT WATER AND HOT WATER RETURN PIPING WITH 1" THICK HIGH DENSITY FIBERGLASS INSULATION WITH, FACTORY APPLIED VAPOR BARRIER ALL SERVICE JACKET.
- ALL WATER PIPING UNDERGROUND SHALL BE A MINIMUM OF 3 FEET BELOW GRADE UNLESS OTHERWISE NOTED.
- FINAL WATER PIPING ROUTING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
- ALL SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC.
- ALL HORIZONTAL SOIL AND WASTE PIPING 2 1/2" IN DIAMETER AND LESS SHALL HAVE A MINIMUM SLOPE OF 1/4" PER ONE FOOT LENGTH OF PIPE. ALL PIPING 3" IN DIAMETER AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER ONE FOOT LENGTH OF PIPE.
- CHROME PLATED ESCUTCHEONS AND NIPPLES ARE REQUIRED AT ALL FLOOR AND WALL PENETRATIONS.
- NO COMBUSTIBLE MATERIALS SHALL BE PLACED IN RETURN AIR CAVITY PLENUMS.
- PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE SEALED IN AN APPROVED MANNER WHICH MAINTAINS THE REQUIRED FIRE RATING OF THE ASSEMBLY.
  - WHERE HOLES ARE CIRCULAR, THE PENETRATION SHALL BE PROTECTED WITH FIRE-SEAL SMOKE AND FIRE STOP FITTINGS MANUFACTURED BY O.Z. GEDNEY, LINK SEAL BY THUNDER LINE OR APPROVED EQUAL.
  - WHERE HOLES ARE RECTANGULAR, THE PENETRATION SHALL BE PROTECTED WITH DOW CORNING 3-6548, SILICONE RTV FOAM, 3M FIRE BARRIER PENETRATION SEAL SYSTEM, OR APPROVED EQUAL.
- ALL FIXTURES AND EQUIPMENT SHALL HAVE SHUT-OFF VALVES AT OR NEAR EQUIPMENT.
- GATE VALVES SHALL BE #125 BRONZE WITH UNION BONNET.
- PROVIDE AND INSTALL HAMMER ARRESTORS AT FIXTURE GROUPS. INSTALL AIR CHAMBERS AT INDIVIDUAL FIXTURES.
- MAINTAIN AS-BUILT DRAWINGS, DAILY. SUBMIT TO ARCHITECT/OWNER AFTER COMPLETION OF ALL WORK.
- PLUMBING CONTRACTOR SHALL ARRANGE TO PAY FOR ALL NECESSARY PERMITS, LICENSES, AND INSPECTIONS AS REQUIRED BY THE CITY.
- ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES, INCLUDING THE 2017 FLORIDA BUILDING CODE, PLUMBING - 6TH EDITION.
- TO THE BEST OF THE ARCHITECT'S OR ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE MINIMUM BUILDING CODES.

PLUMBING LEGEND		
DESCRIPTION	ABBREV.	SYMBOL
SANITARY PIPING	SS	_____
VENT PIPING	V	-----
COLD WATER PIPING	CW	_____
HOT WATER PIPING	HW	_____
HOT WATER RETURN PIPING	HWR	-----
VENT THRU ROOF	VTR	_____
WALL CLEAN OUT	WCO	
FLOOR/EXTERIOR CLEAN OUT	FCO/ECO	
BALANCING VALVE	-	
SHUT-OFF VALVE	-	

MICHAEL CURKAN P.E. 45846



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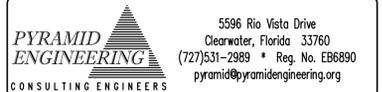
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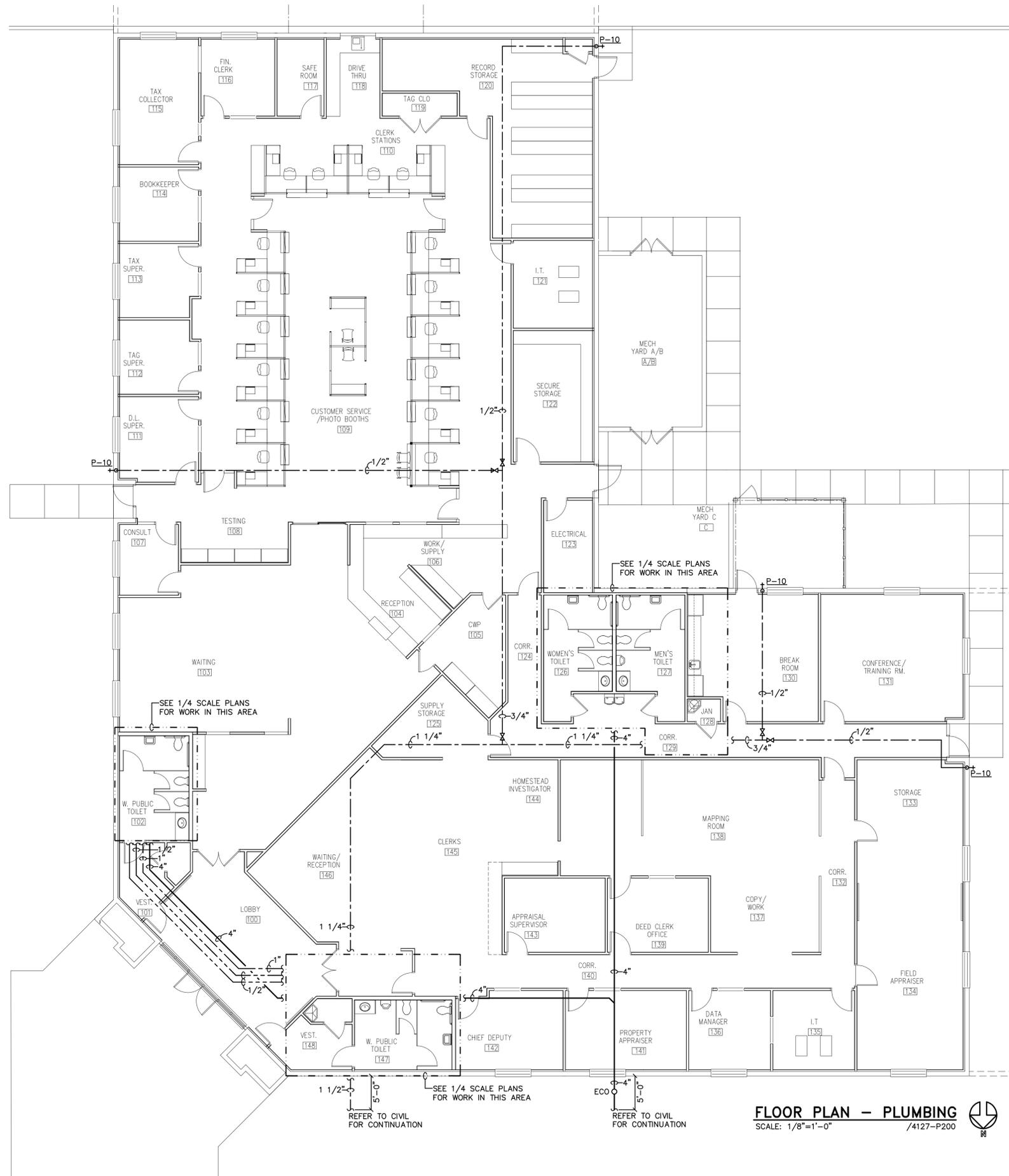
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PLUMBING NOTES, SCHEDULES AND LEGEND



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P100



**FLOOR PLAN - PLUMBING**  
 SCALE: 1/8"=1'-0" /4127-P200

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 OKEECHOBEE, FLORIDA 34972**

STA PROJECT #: 1804

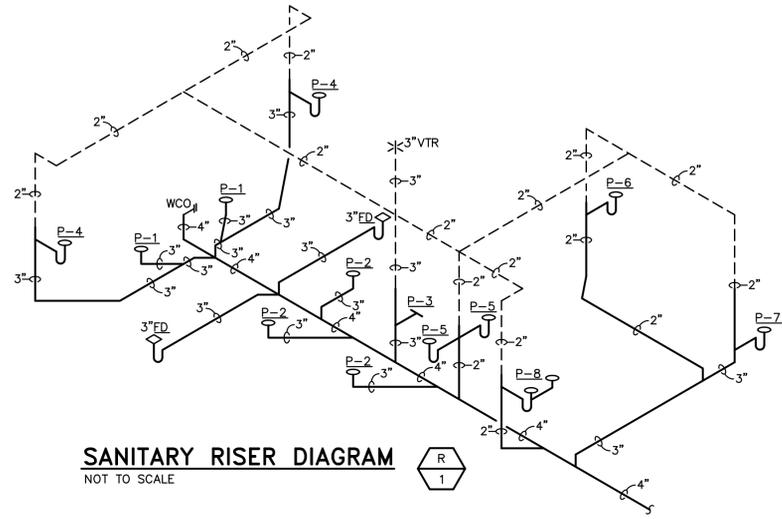
PROJECT MGR.: KM

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1	08.30.18	SD DOCS.
2	09.06.18	SD DOCS, REV.
3	09.18.18	SD DOCS, REV.
4	09.18.18	SITE PLAN REV
5	11.07.18	DD DOCS.
6	02.12.19	90% CD'S
7	03.26.19	100% CD'S
8	04.19.19	PERMIT SET

PLUMBING FLOOR PLAN

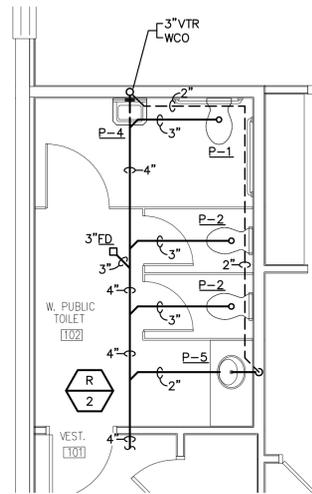
**P200**

**PYRAMID ENGINEERING**  
 CONSULTING ENGINEERS  
 5596 Rio Vista Drive  
 Clearwater, Florida 33760  
 (727)531-2989 • Reg. No. EB6890  
 pyramid@pyramidengineering.org

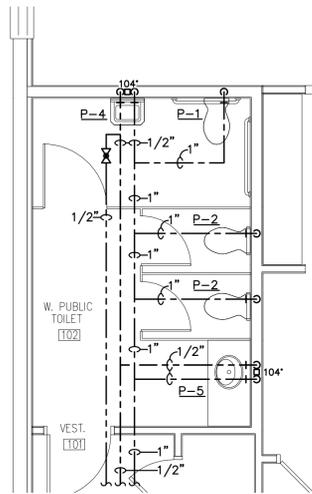


**SANITARY RISER DIAGRAM**  
NOT TO SCALE

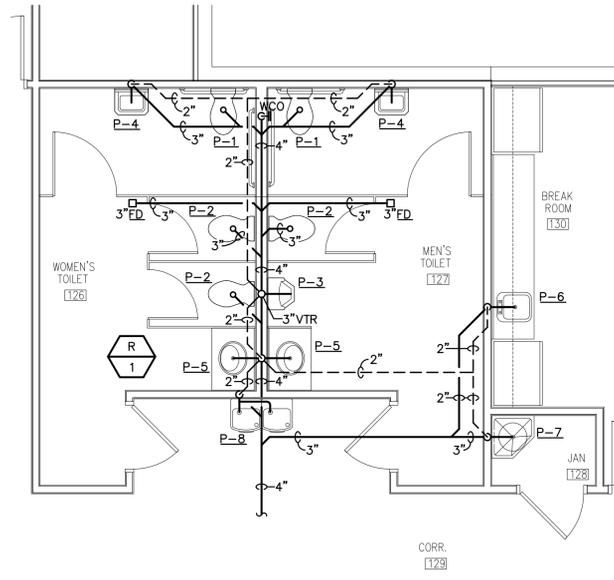
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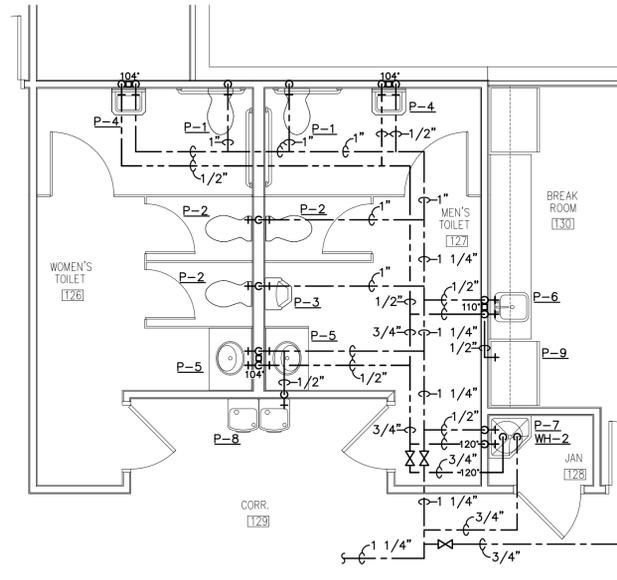
**PARTIAL FLOOR PLAN - SANITARY**  
SCALE: 1/4"=1'-0"



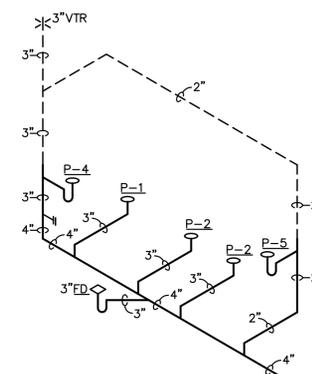
**PARTIAL FLOOR PLAN - WATER**  
SCALE: 1/4"=1'-0"



**PARTIAL FLOOR PLAN - SANITARY**  
SCALE: 1/4"=1'-0"

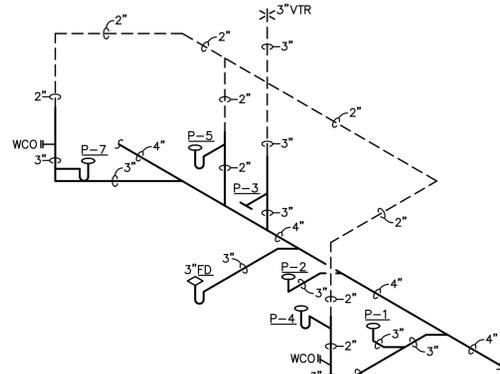


**PARTIAL FLOOR PLAN - WATER**  
SCALE: 1/4"=1'-0"



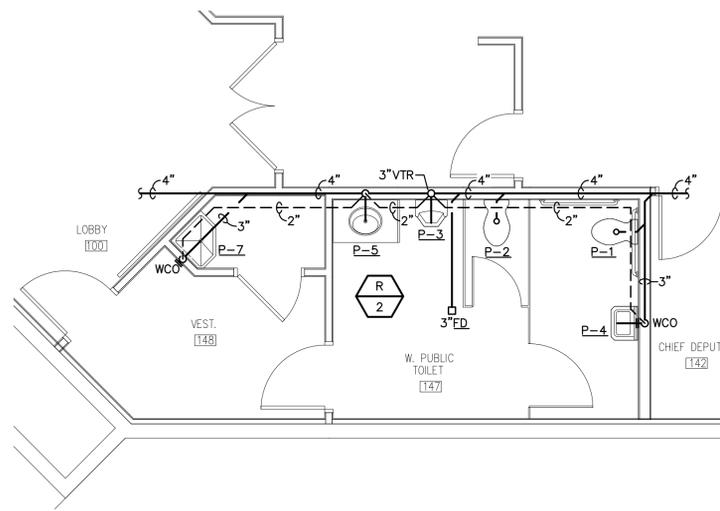
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R 2

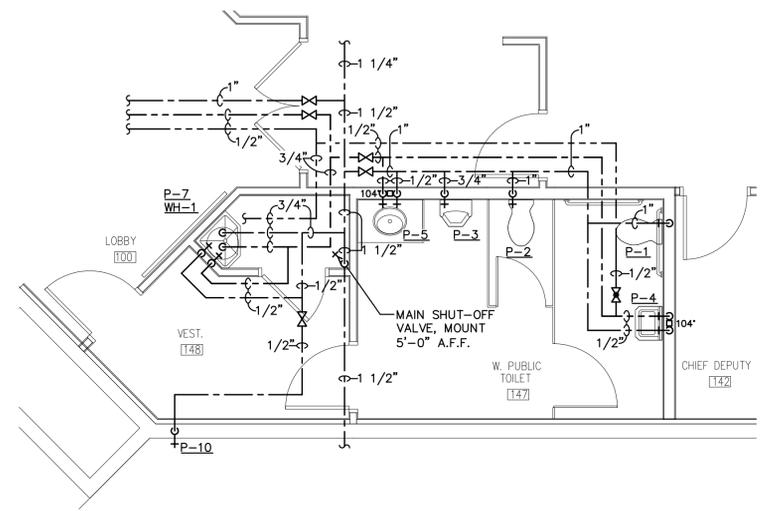


**SANITARY RISER DIAGRAM**  
NOT TO SCALE

R 3



**PARTIAL FLOOR PLAN - SANITARY**  
SCALE: 1/4"=1'-0"



**PARTIAL FLOOR PLAN - WATER**  
SCALE: 1/4"=1'-0"



MICHAEL CURKAN P.E. 45846

**STRAUGHN TROUT**  
ARCHITECTS  
2300 E. Edgewood Drive  
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33803-9001  
PH: (883) 663-0000  
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stroughn@trout.com

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NEW PROPERTY APPRAISER,  
TAX COLLECTOR & DRIVER'S LICENSE  
BUILDING for OKEECHOBEE BOCC  
OKEECHOBEE, FLORIDA 34972

STA PROJECT #: 1804

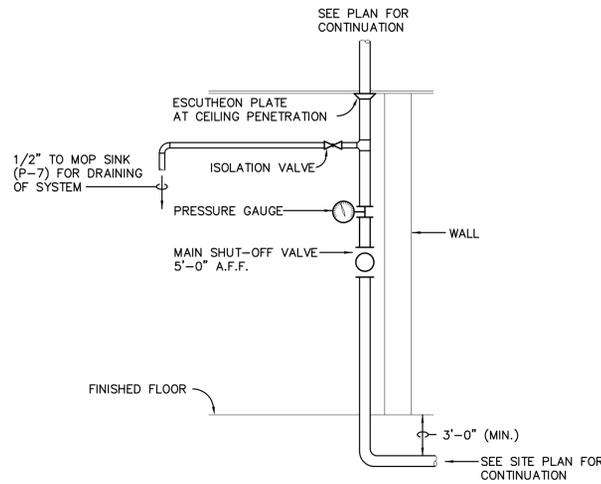
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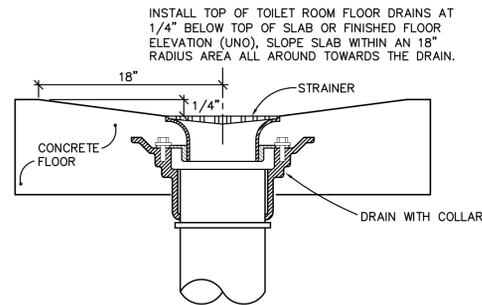
PLUMBING  
FLOOR PLANS

**PYRAMID**  
ENGINEERING  
CONSULTING ENGINEERS  
5596 Rio Visto Drive  
Clearwater, Florida 33760  
(727)531-2989 • Reg. No. EB6890  
pyramid@pyramidengineering.org

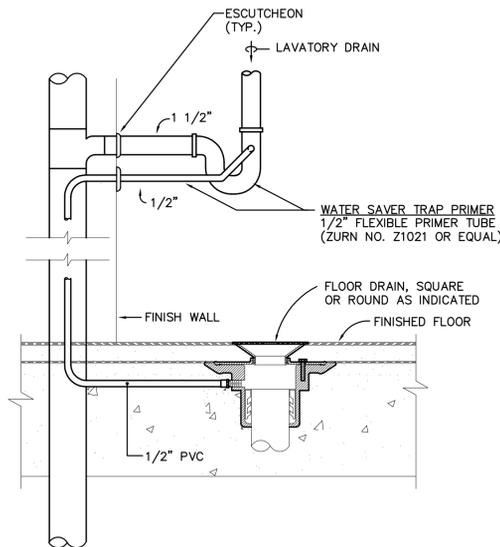
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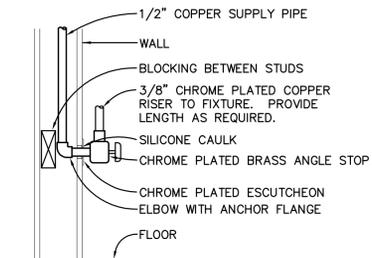
**DOMESTIC WATER BUILDING ENTRANCE DETAIL**  
NOT TO SCALE



**FLOOR DRAIN DETAIL**  
NOT TO SCALE

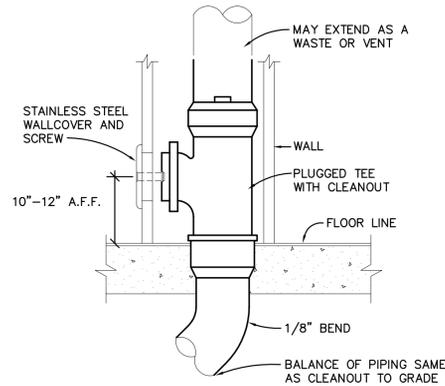


**TRAP PRIMER CONNECTION DETAIL**  
NOT TO SCALE

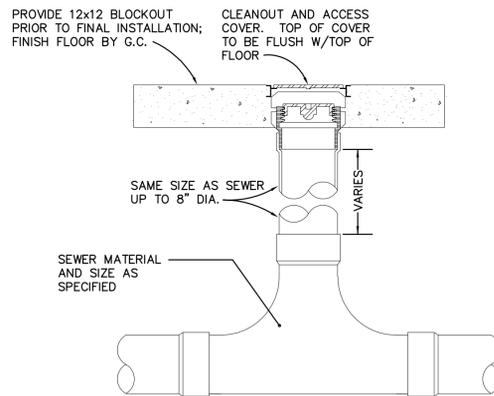


NOTE: THE ENTIRE SUPPLY ASSEMBLY SHALL HAVE A CHROME PLATED FINISH. (McGUIRE #2165 OR APPROVED EQUAL)

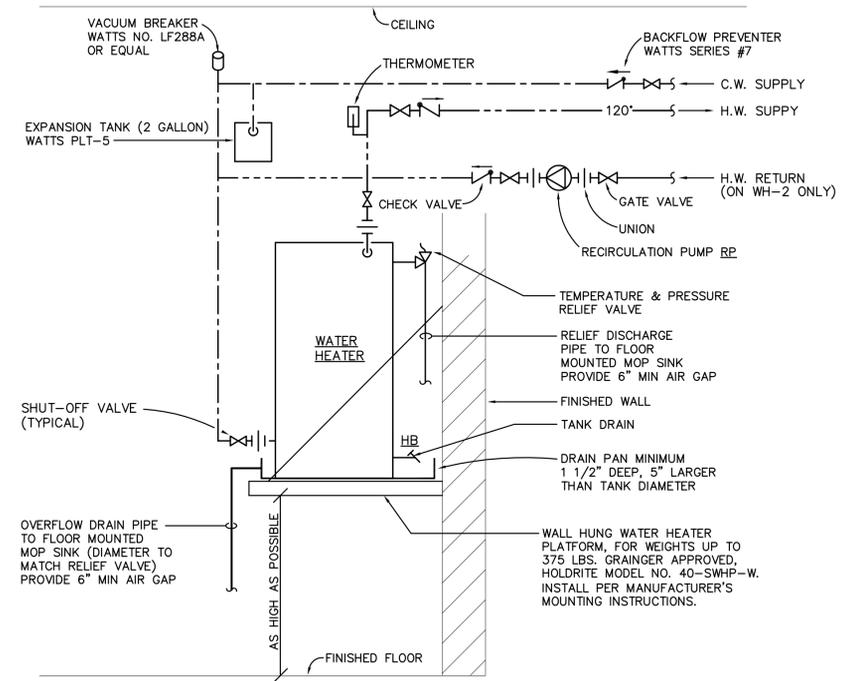
**SHUT-OFF VALVE DETAIL**  
NOT TO SCALE



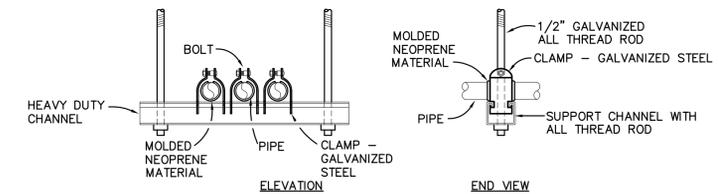
**WALL CLEANOUT DETAIL**  
NOT TO SCALE



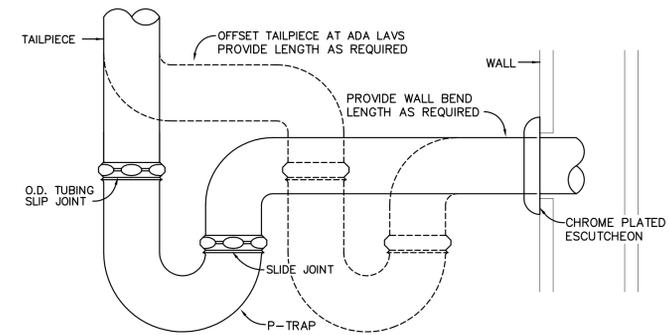
NOTE: PROVIDE 6" THICK x 18" DIA. CONCRETE COLLAR AT ALL CLEANOUTS IN FINISH GRADE.  
**'P'-TRAP DETAIL**  
NOT TO SCALE



**WATER HEATER DETAIL**  
NOT TO SCALE



**PIPE HANGER DETAIL**  
NOT TO SCALE



NOTE:  
1. THE ENTIRE P-TRAP ASSEMBLY, INCLUDING SLIP JOINT NUTS, SHALL BE 17 GAUGE, HEAVY CAST BRASS WITH A POLISHED CHROME PLATED FINISH. (McGUIRE #8902 1 1/4" x 1 1/2"-17 GA. OR APPROVED EQUAL)

**'P'-TRAP DETAIL**  
NOT TO SCALE

MICHAEL CURKAN P.E. 45846

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sttraughn@tcom.com

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**NEW PROPERTY APPRAISER,  
TAX COLLECTOR & DRIVER'S LICENSE  
BUILDING for OKEECHOBEE BOCC  
OKEECHOBEE, FLORIDA 34972**

STA PROJECT #: 1804

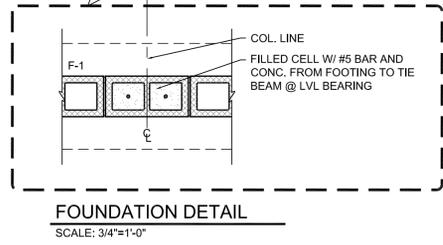
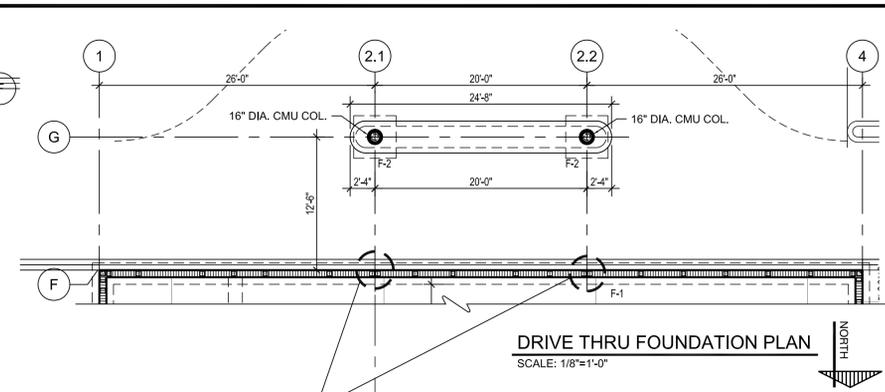
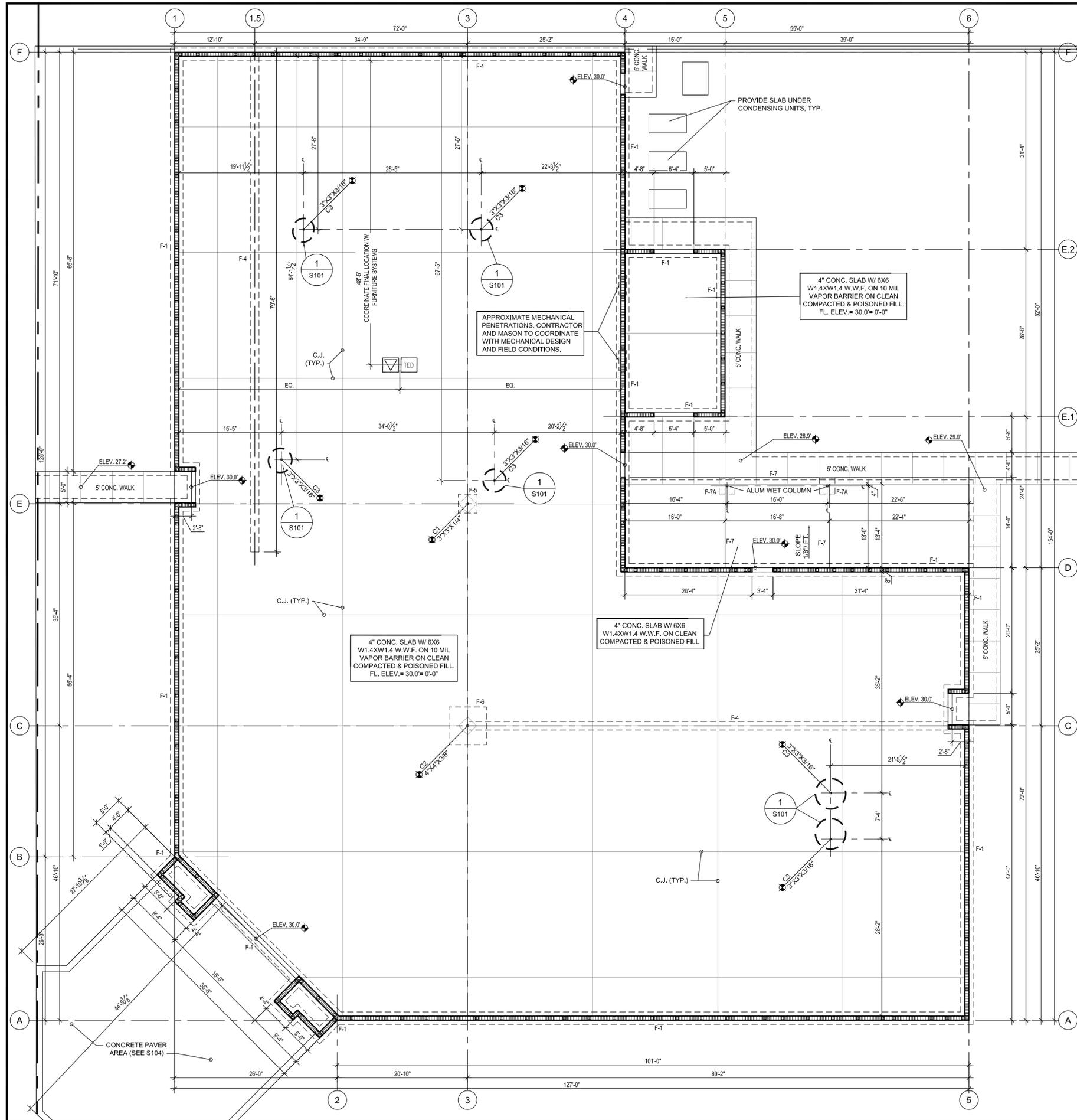
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#	DATE	ISSUED AS
1	08.30.18	SD DOCS.
2	09.06.18	SD DOCS, REV.
3	09.18.18	SD DOCS, REV.
4	09.18.18	SITE PLAN REV
5	11.07.18	DD DOCS.
6	02.12.19	90% CD'S
7	03.26.19	100% CD'S
8	04.19.19	PERMIT SET

PLUMBING  
DETAILS

**P300**

**PYRAMID ENGINEERING**  
CONSULTING ENGINEERS  
5596 Rio Vista Drive  
Clearwater, Florida 33760  
(727)531-2989 • Reg. No. EB6890  
pyramid@pyramidengineering.org



CONTRACTOR TO COORDINATE FLOOR ELEVATIONS WITH CIVIL DRAWINGS

- LEGEND**
- FLOOR MOUNTED POWER OUTLET (SEE ELECTRICAL)
  - TELEPHONE, ELECTRICAL, AND DATA FLOOR OUTLET (SEE ELECTRICAL)

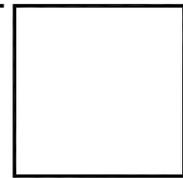
- WALL LEGEND**
- EXTERIOR WALLS**
- NEW 8" CMU WALL W/ FILLED (1) #5 CELL AS NOTED
  - INDICATES #5 BAR VERT. IN FILLED CELL @ ALL CORNERS, OPENINGS, AND 48" O.C. MAX
- INTERIOR BEARING WALLS**
- NEW STEEL STUD BEARING WALL 362516254(33) 16 GA. 33K<sub>sl</sub> SEE S103 FOR HEADER DETAIL

**FOOTING SCHEDULE** (SEE S101 FOR DETAILS)

FOOTING MARK	SIZE	REINFORCEMENT
F-1	2'-0" W x 1'-0" D x CONT.	(3) #5 $\phi$ CONT. W/ #3 @ 48" O.C. TRANSVERSE
F-2	3'-0" SQ. x 1'-0" D	(3) #5 $\phi$ CONT. W/ #3 @ 48" O.C. TRANSVERSE
F-3	2'-0" W x 1'-0" D x CONT.	(3) #5 $\phi$ CONT. W/ #3 @ 48" O.C. TRANSVERSE
F-3A	2'-0" W x 1'-0" D x CONT.	(3) #5 $\phi$ CONT. W/ #3 @ 48" O.C. TRANSVERSE
F-4	1'-4" W x 1'-0" D x CONT.	(3) #5 $\phi$ CONT.
F-5	3'-0" SQ. x 1'-0" D	(5) #5 $\phi$ EA. WAY
F-6	6'-0" SQ. x 1'-4" D	(8) #5 $\phi$ EA. WAY
F-7	0'-8" W x 0'-8" D x CONT.	(1) #5 $\phi$ CONT.
F-7A	2'-6" X 2'-6"	REINF. W/ FIBER MESH

**NOTE:**  
 1) COORDINATE EXTERIOR IMPROVEMENTS WITH CIVIL ENGINEERING INCLUDING NEW WALKWAYS AND GRADES.  
 2) COORDINATE STUB UP LOCATIONS AND PIPING REQUIRED FOR FLOOR JUNCTIONS WITH LOW VOLTAGE WORK.

**FOUNDATION PLAN**  
 SCALE: 1/8"=1'-0"



2005 E. Edgewood Drive  
 Lakeland, Florida USA  
 33803-2001

PH: (803) 665-6205  
 FX: (803) 665-6206  
 StraughnTrout.com

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NEW PROPERTY APPRAISER,  
 TAX COLLECTOR & DRIVER'S LICENSE  
 BUILDING for OKEECHOBEE BOCC  
 OKEECHOBEE, FLORIDA 34972

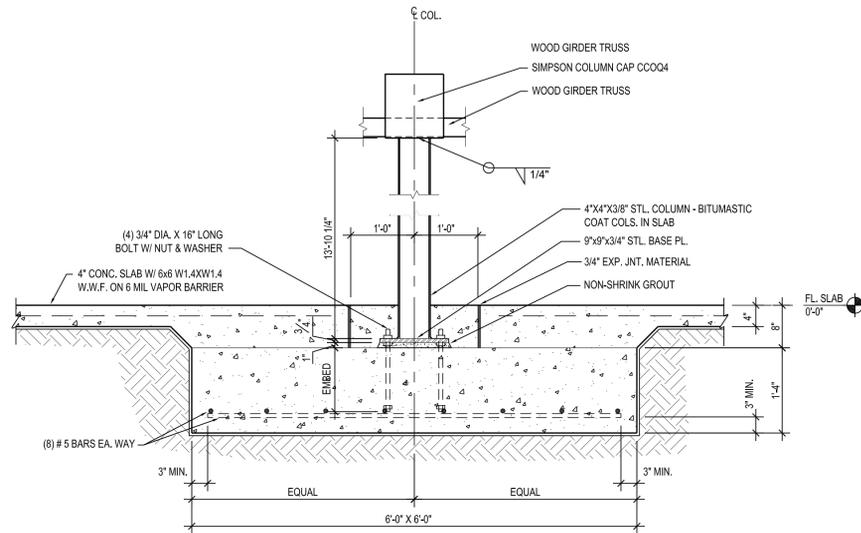
STA PROJECT #: 1804

PROJECT MGR.: KM

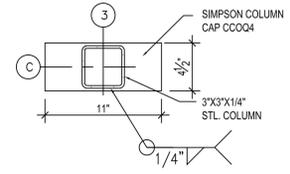
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4	09.18.18	SITE PLAN REV.
5	11.07.18	DD DOCS.
6	02.12.19	90% CD'S
7	03.26.19	100% CD'S
8	04.19.19	PERMIT SET

**FOUNDATION PLAN**

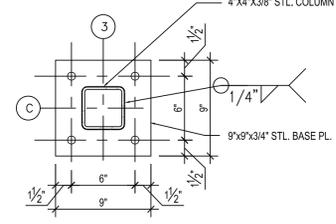
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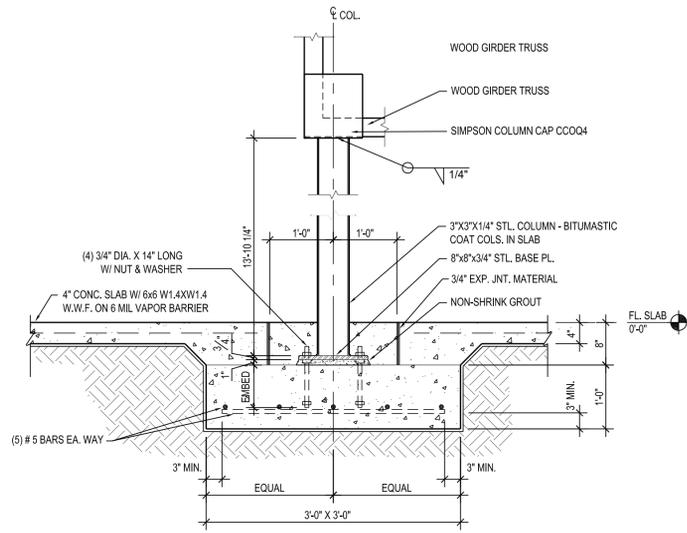
**FOOTING (F-6)**  
SCALE: 3/4"=1'-0"



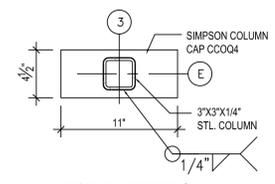
**TOP PLATE DETAIL**  
SCALE: 1-1/2"=1'-0"



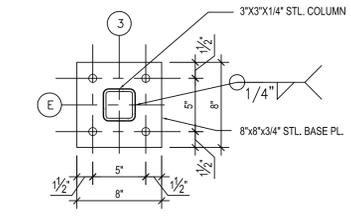
**BOTTOM PLATE DETAIL**  
SCALE: 1-1/2"=1'-0"



**FOOTING (F-5)**  
SCALE: 3/4"=1'-0"

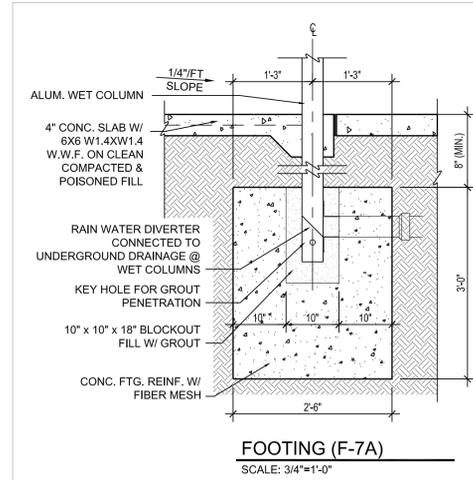


**TOP PLATE DETAIL**  
SCALE: 1-1/2"=1'-0"

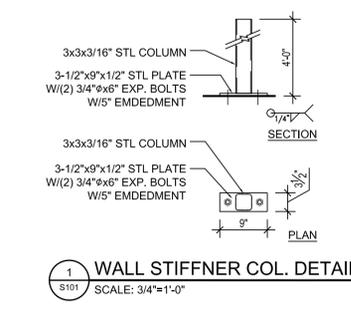


**BOTTOM PLATE DETAIL**  
SCALE: 1-1/2"=1'-0"

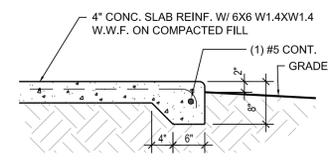
COLUMN SCHEDULE (SEE S101 FOR DETAILS)	
COLUMN MARK	SIZE
C1	3" x 3" x 1/4" X 13'-10 1/4" HIGH
C2	3" x 3" x 3/8" X 13'-10 1/4" HIGH
C3	3" x 3" x 1/4" X 13'-10 3/16" HIGH



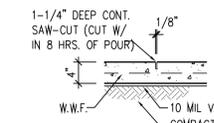
**FOOTING (F-7A)**  
SCALE: 3/4"=1'-0"



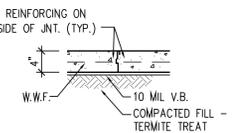
**WALL STIFFNER COL. DETAIL**  
SCALE: 3/4"=1'-0"



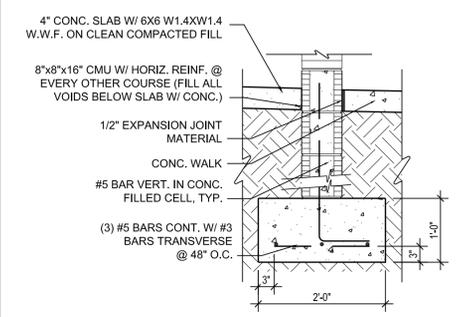
**TYP. CONC. EDGE DETAIL**  
SCALE: 3/4"=1'-0"



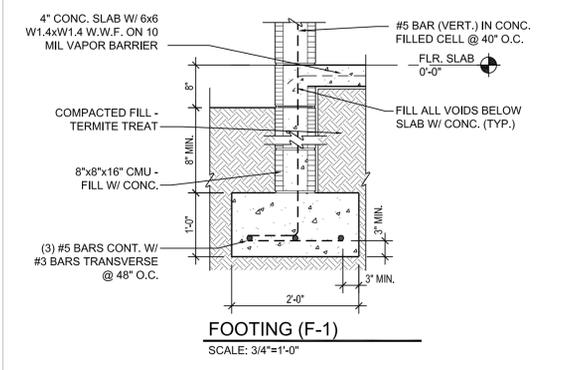
**TYP. CONTROL JNT. (C.J.)**  
SCALE: 3/4"=1'-0"



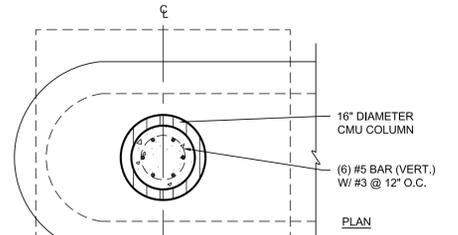
**TYP. CONSTRUCTION JNT. (C.J.)**  
SCALE: 3/4"=1'-0"



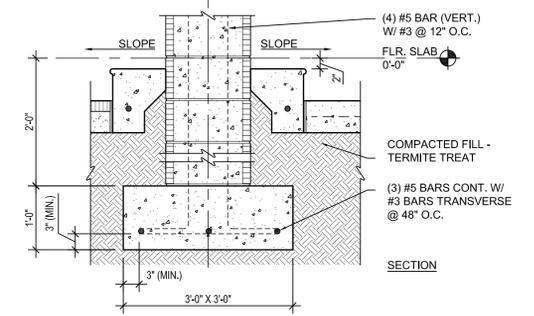
**FOOTING (F-3A)**  
SCALE: 3/4"=1'-0"



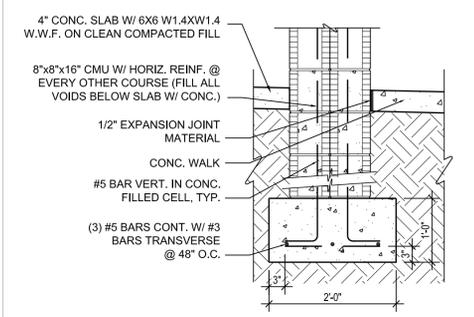
**FOOTING (F-1)**  
SCALE: 3/4"=1'-0"



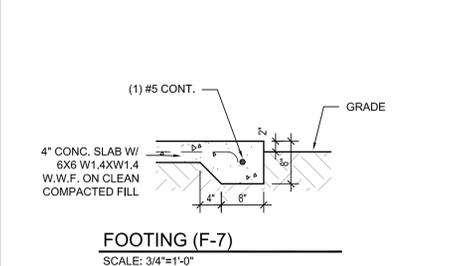
**PLAN**



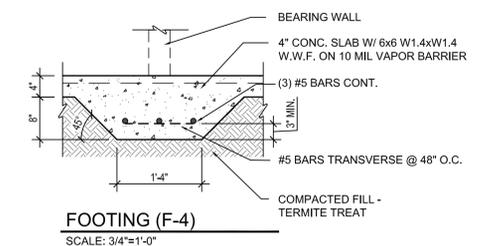
**FOOTING (F-2)**  
SCALE: 3/4"=1'-0"



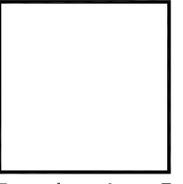
**FOOTING (F-3)**  
SCALE: 3/4"=1'-0"



**FOOTING (F-7)**  
SCALE: 3/4"=1'-0"



**FOOTING (F-4)**  
SCALE: 3/4"=1'-0"



2055 E. Edgewood Drive  
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33803-2001

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OKEECHOBEE, FLORIDA 34972

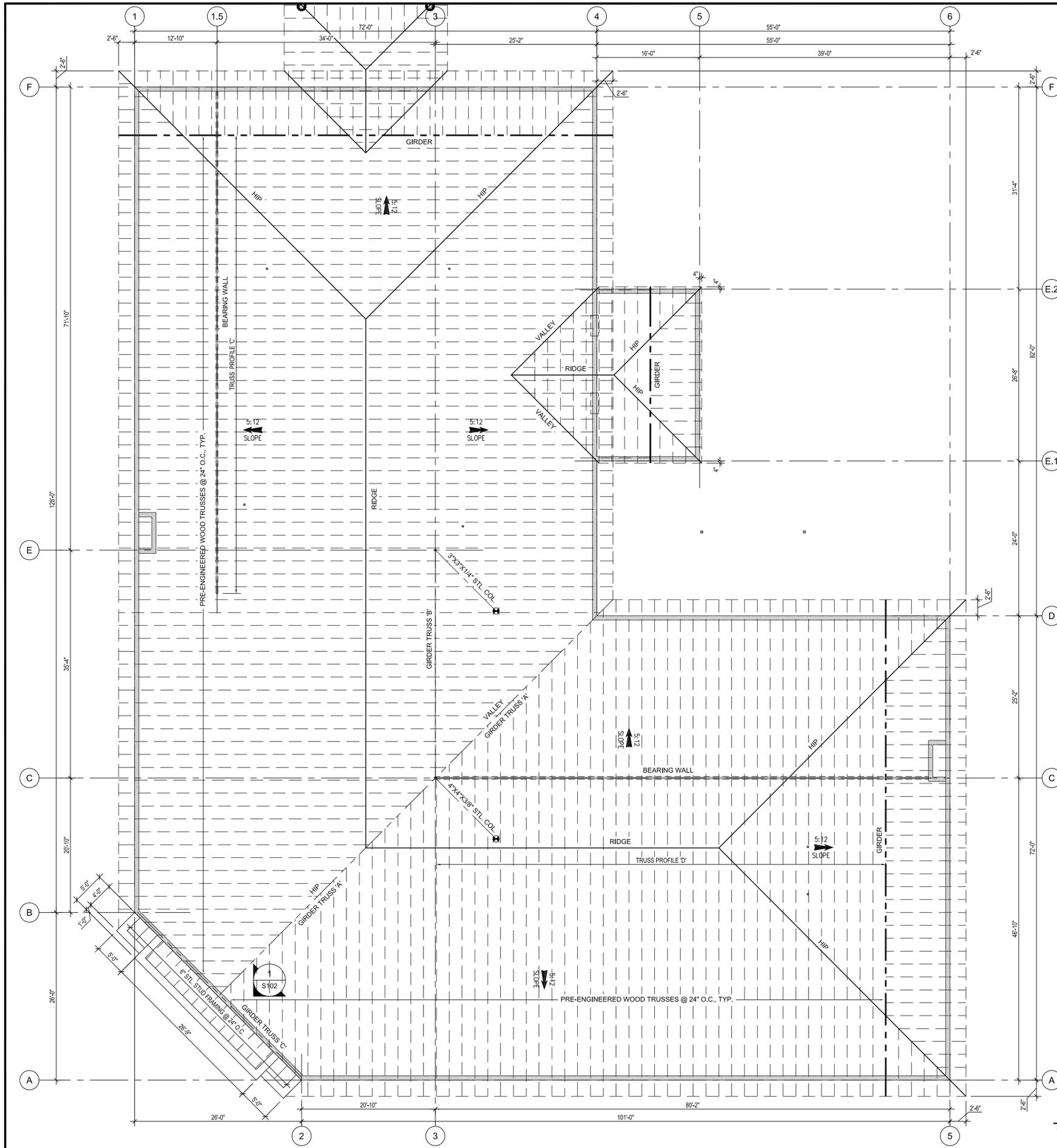
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PROJECT MGR.: KM

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FOUNDATION  
DETAILS

**S101**



**DESIGN LOADS:**

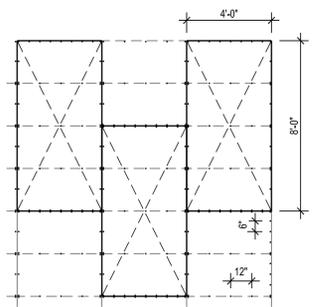
CONCRETE:  
 $f_c = 3000$  P.S.I.

REINFORCING STEEL:  
 $f_y = 60$  K.S.I.

RISK CATEGORY: II  
 EXPOSURE: B  
 ULTIMATE WIND SPEED 150 MPH

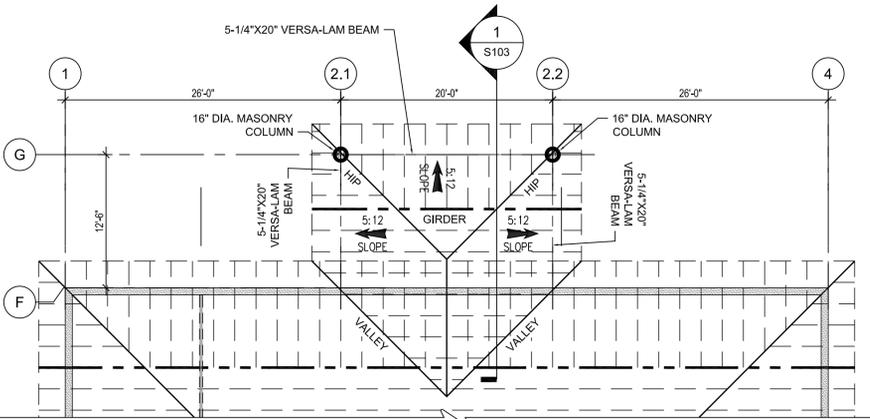
ROOF DESIGN LOAD:  
 TOP CORD: 10 PSF  
 BOTTOM CORD: 15 PSF  
 TRUSS LIVE LOAD: 20 PSF  
 TOTAL LOAD: 45 PSF

- STRUCTURAL NOTES:**
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
  - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL STRUCTURAL COMPONENTS SIGNED & SEALED BY FLORIDA REGISTERED ENGINEER
  - TYPICAL MAIN ROOF DECK SHALL BE 5/8\" CDX PLYWOOD



NOTE: BY THE FLORIDA BUILDING CODE -  
 USE 8d RINGSHANK NAILS W/ A MIN.  
 SPACING OF 6\" O.C. AT EDGES AND 12\"  
 O.C. AT INTERMEDIATE AREAS. (TYP.)

**SHEATHING NAILING PATTERN**  
 SCALE: 1/4\"=1'-0"



**DRIVE THRU ROOF FRAMING PLAN**  
 SCALE: 1/8\"=1'-0"

**WALL LEGEND**

**EXTERIOR WALLS**  
 - NEW 8\" CMU WALL (2)K.O. BLOCK BOND BEAM

**INTERIOR BEARING WALLS**  
 - NEW STEEL STUD BEARING WALL  
 362516254(33) 16 GA. 33Ksi  
 SEE S105 FOR HEADER DETAIL

**FOUND. WIND PRESSURES FOR PLAT TO 6/12 ROOF LESS 60' IN HEIGHT AND ENCLOSED RISK CATEGORY II w/ ULTIMATE WIND SPEED WS=100 EXPOSURE B <= 30'**

WIND STAGNATION PRESSURE  $P_C = 1.0$   $V_P = .00256 \cdot 0.1 \cdot W^2 \cdot P_C$   $V_P = 34.56$  psf

ROOF AREA	100sqft	100sqft	OVERHANG AREA	100sqft	100sqft
RF=	20.045 -31.56 14.17 -31.795	ZONE 1			
	20.045 -56.061 14.17 -40.435	ZONE 2			
	20.045 -87.437 14.17 -63.936	ZONE 3			

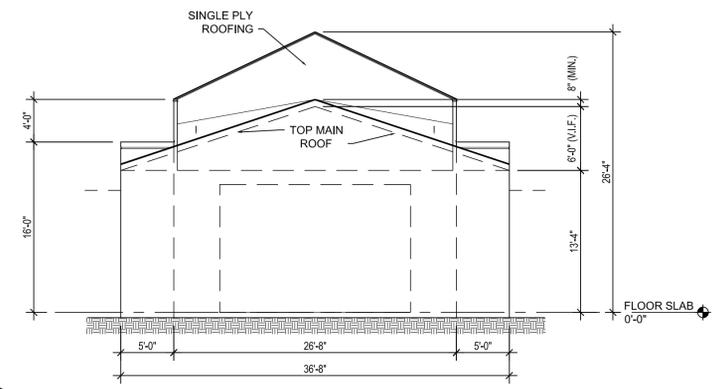
WALL AREA	100sqft	500sqft	PARAPET AREA	100sqft	500sqft
WP=	31.795 -31.795 22.81 -25.92	ZONE 4			
	34.56 -40.31 20.92 -28.685	ZONE 5			

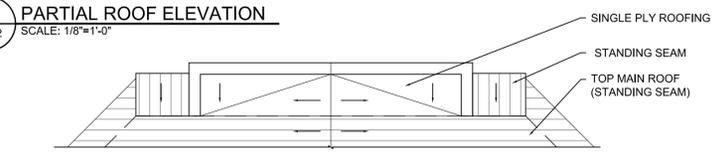
BUILDING DIMENSION	MIN. WIDTH	MW = 72 + $\frac{D}{12}$	EAVE HEIGHT	H = 13 + $\frac{H}{12}$
ROOF PITCH	RP=5	RR = MW - $\frac{RP}{48}$	H	BH = 20.833

$a = \text{IF} \{ (1 \cdot MW \leq 4 \cdot BH, 1 \cdot MW), \text{IF} \{ (4 \cdot BH < 0.4 \cdot MW, 0.4 \cdot MW), \text{IF} \{ (0.4 \cdot MW < 3, 3, 0.4 \cdot MW) \} \}$

$a = 7.2$

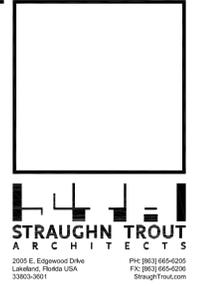


**1 PARTIAL ROOF ELEVATION**  
 S102 SCALE: 1/8\"=1'-0"



**PARTIAL ROOF PLAN**  
 SCALE: 1/8\"=1'-0"

**ROOF FRAMING PLAN**  
 SCALE: 1/8\"=1'-0"



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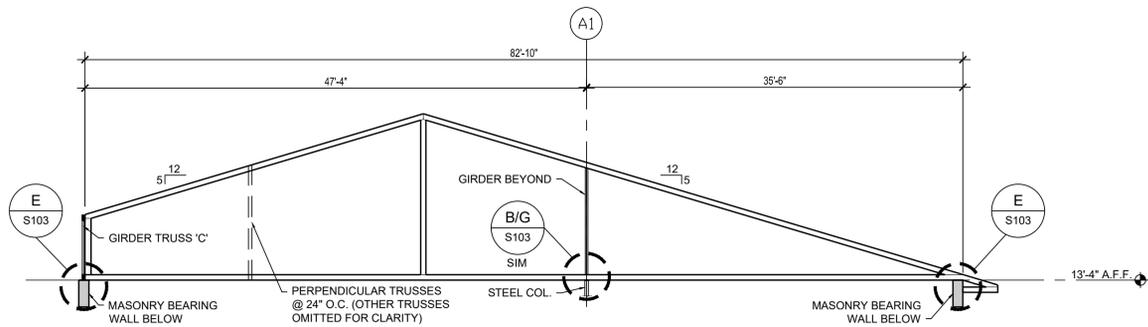
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7	03.26.19	100% CD'S
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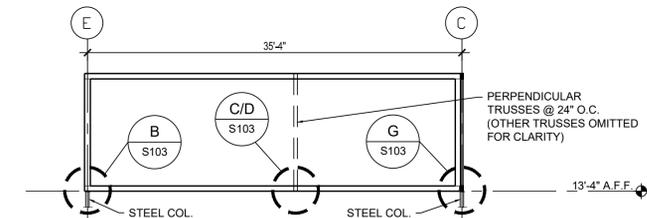
**ROOF FRAMING PLAN**

**S102**



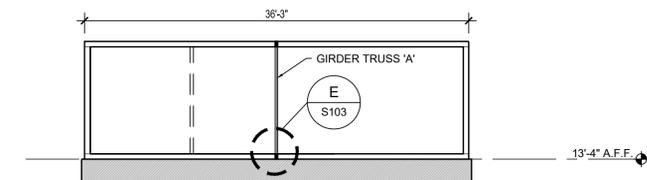
**GIRDER TRUSS 'A' PROFILE**

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



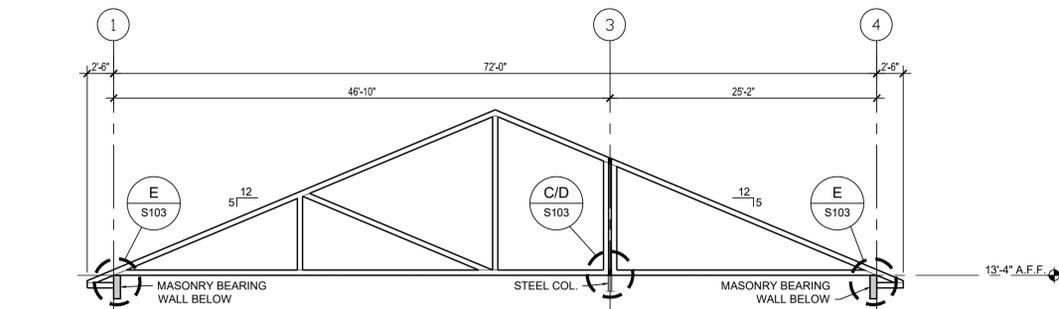
**GIRDER TRUSS 'B' PROFILE**

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



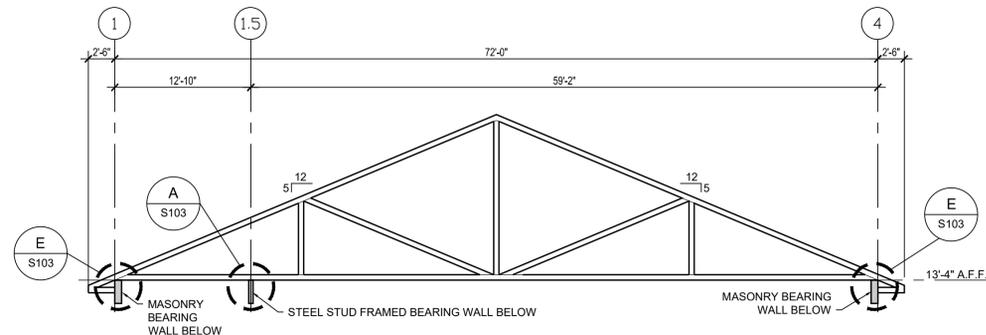
**GIRDER TRUSS 'C' PROFILE**

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



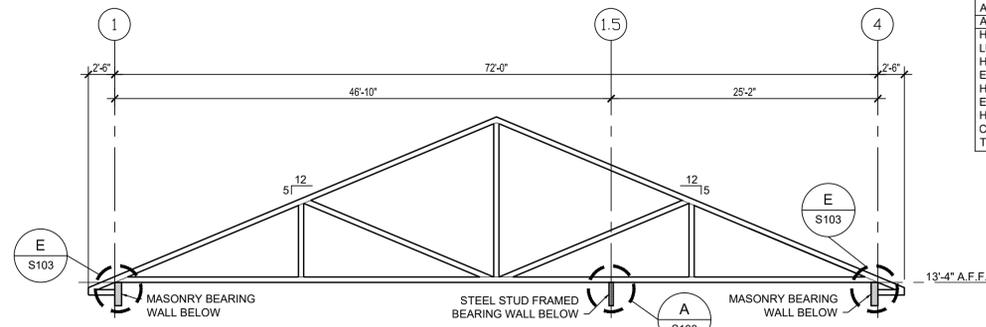
**TRUSS PROFILE @ GIRDER TRUSS 'B'**

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



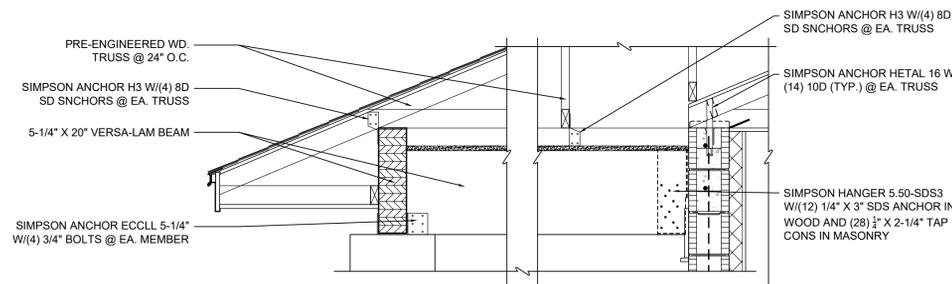
**TYP. TRUSS 'C' PROFILE**

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



**TYP. TRUSS 'D' PROFILE**

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

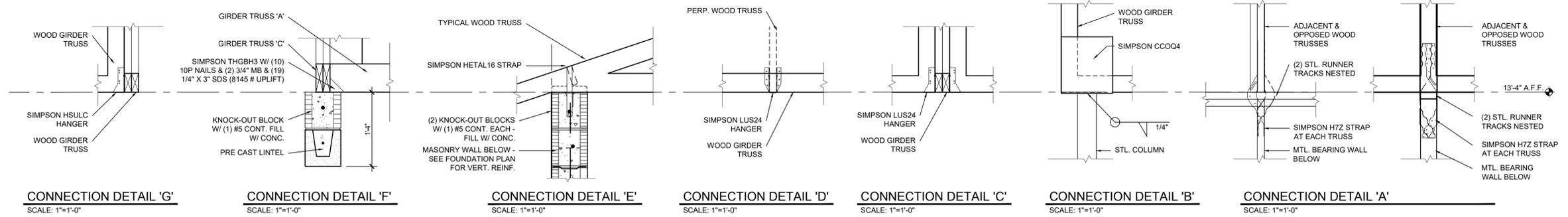


**1 TRUSS TO BEAM DETAIL @ TELLER ROOF**

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

**NOTE:**  
SIMPSON CONNECTIONS TO BE VERIFIED BY ENGINEER OF RECORD

ANCHOR	UPLIFT	NOTES
HETAL 16	1810	MASONRY TO TRUSS CONNECTIONS
LUS24	490	GIRDER CONNECTIONS
H7Z	985	INTERIOR BEARING WALL TO TRUSS
EGQ 5.50	6365	VERSA-LAM TO MASONRY
H3	455	VERSA-LAM TO TRUSS
ECCL 5 1/4"	2835	COVERED PARKING COLUMN TO VERSA-LAM
HSULC	815	GIRDER CONNECTION
CCOQ4	7145	COLUMN TO GIRDER CONNECTION
THGBH3	9700	GIRDER CONNECTION



**CONNECTION DETAIL 'G'** SCALE: 1"=1'-0"  
**CONNECTION DETAIL 'F'** SCALE: 1"=1'-0"  
**CONNECTION DETAIL 'E'** SCALE: 1"=1'-0"  
**CONNECTION DETAIL 'D'** SCALE: 1"=1'-0"  
**CONNECTION DETAIL 'C'** SCALE: 1"=1'-0"  
**CONNECTION DETAIL 'B'** SCALE: 1"=1'-0"  
**CONNECTION DETAIL 'A'** SCALE: 1"=1'-0"

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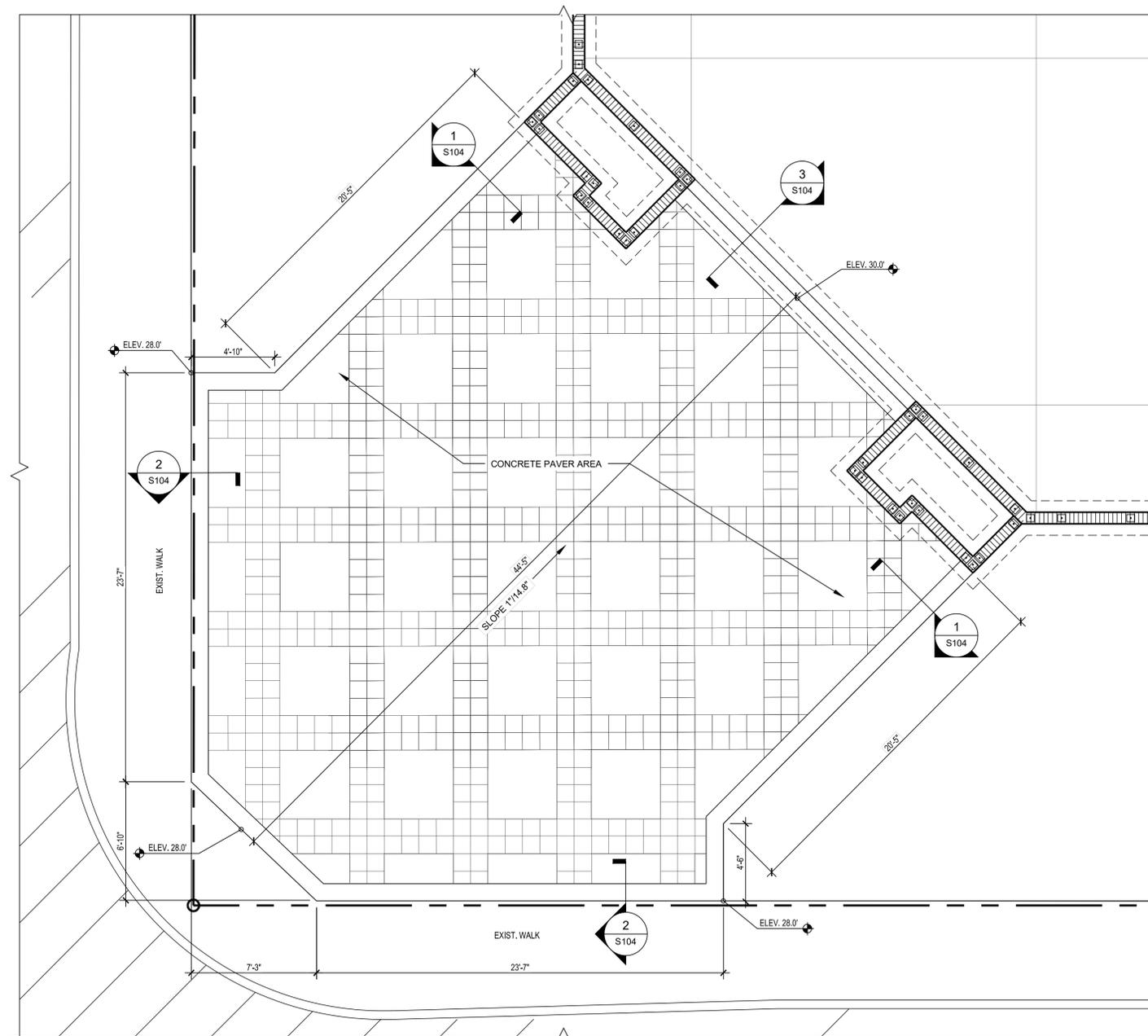
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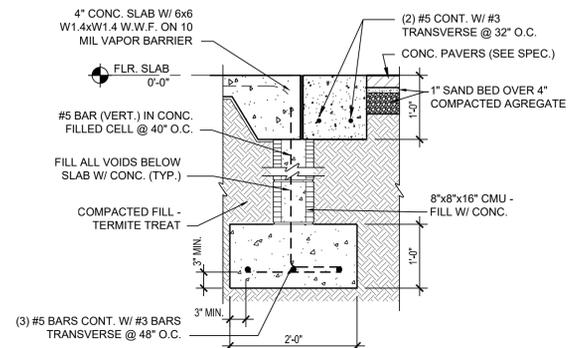
**TRUSS PROFILES**

**S103**

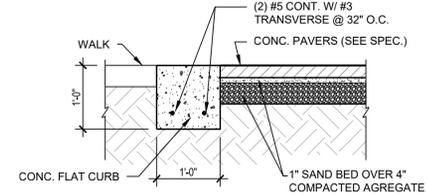


**CONCRETE PAVER PLAN**  
SCALE: 1/4"=1'-0"

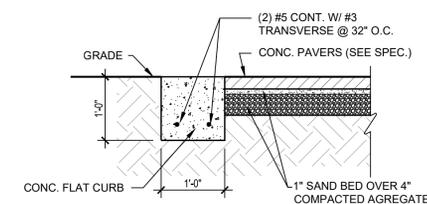
NOTE:  
COORDINATE WITH CIVIL  
DRAWINGS



**3 CONC. PAVER DETAIL @ ENTRANCE**  
SCALE: 3/4"=1'-0"



**2 CONC. PAVER DETAIL @ WALK**  
SCALE: 3/4"=1'-0"



**1 CONC. PAVER DETAIL @ GRADE**  
SCALE: 3/4"=1'-0"



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**CONCRETE  
PAVER  
DETAILS**

**S104**