ITEM #	DESCRIPTION	MANUFACTURER and MODEL #	ELECTRIC	GAS	WATER	WASTE	COMMENTS
1A	WALK-IN FREEZER	KOLPAK	208V/3PH 12.3 AMPS 208V/1PH 9.8 AMPS			FD	PLUMBING CONTRACTOR FURNISH AND INSTALL CONDENSATE LINES ELECTRICIAN PROVIDES AND INSTALLS HEAT TAPE FOR DRAIN LINES
1B	WALK-IN BEER COOLER	KOLPAK	208V/3PH 7.2 AMPS 208V/1PH 9.8 AMPS			FD	
1C	WALK-IN PRODUCTION COOLER	KOLPAK	208V/3PH 11.1 AMPS 115V/1PH 1.6 AMPS			FD	
1D	WALK-IN MEAT COOLER	KOLPAK	208V/3PH 9.4 AMPS 115V/1PH 1.2 AMPS			FD	SEE SHOP DRAWINGS FOR EXACT ELECTRICAL REQUIREMENTS
2	PLASTIC STRIP CURTAINS	CURTRON M108PR-408D					
3	GRIDDLE	ACCUTEMP EGF2083836550-T1	208V/3PH 39.56 AMPS				
4	CHAR BROILER	VULCAN VACB36		3/4" 102,000 BTU			
5	CHAR BROILER	VULCAN VACB47		3/4" 136,000 BTU			
5A	REFRIGERATED EQUIPMENT STAND	[illegible]					SPECIAL TEXAS ROADHOUSE CONFIGURATION (PANS SIDE X SIDE)
6B	REFRIGERATED EQUIPMENT STAND	SILVER KING SKRCB50HC13	120V 3.1 AMPS				SPECIAL TEXAS ROADHOUSE CONFIGURATION (PANS SIDE X SIDE)
6C	REFRIGERATED EQUIPMENT STAND	SILVER KING SKRCB75HC13	120V 3.1 AMPS				SPECIAL TEXAS ROADHOUSE CONFIGURATION (PANS SIDE X SIDE)
7	GRIDDLE COUNTER TOP 24"	STAR MFG. 524TGF-DIV	208V/1PH 28.9 AMPS				SPECIAL TEXAS ROADHOUSE MODEL ELECTRICIAN TO SUPPLY CORD AND PLUG
8	MECHANICAL COLD PAN	APW CTCW-43	120V 3 AMPS				ON CASTERS
9	14" DEEP FRYER W/CASTERS	PITCO SG-14S		3/4" 110,000 BTUh			
10	18" DEEP FRYER W/CASTERS	PITCO SG-18S		3/4" 140,000 BTUh			
10A	FRYER FILTER W/CASTERS	ARMADILLO ARM-90	120V 10 AMPS				
11	ONION BREADING STATION	CUSTOM STAINLESS STEEL					
11A	REFRIGERATED STAND	SILVER KING SKRCB50HC11	120V 3.1 AMPS				ON CASTERS
12	UPRIGHT REACH-IN FREEZER	TRAULSEN TR1G-12000	120V 9.7 AMPS				ON CASTERS
13	SALAD PASS THROUGH PICK-UP SHELF	CUSTOM					
14	MICROWAVE OVENS	SHARP RCD1200M	120V 16 AMPS				
15	REACH-IN REFRIGERATOR W/COLD TOP	TRAULSEN UST7230-ZTR01-LR	120V 7.5 AMPS				MODIFIED WITH WORK TOP
16	UNDERCOUNTER REACH-IN FREEZER	TRAULSEN ULT27	120V 5 AMPS				PROVIDE WALL MOUNTING BRACKET
17	LETTUCE CRISPER	GLASTENDER LC					
18	CROUTON SHELF	CUSTOM STAINLESS STEEL					ON CASTERS
19	REFRIGERATOR W/COLD TOP	TRAULSEN UST279-ZTR01	120V 7.5 AMPS				
20	MONKEY DISH SHELF	CUSTOM STAINLESS STEEL					
21	PASS THROUGH PICK-UP SHELF	CUSTOM STAINLESS STEEL					SEE 21A-21D FOR HEAT LAMP SPECS
21A	ASSEMBLY COUNTER HEAT LAMPS	HATCO GRAL-96	(2) 208V/120V/1PH 18.9A				VERIFY CONFIGURATION WITH EQUIPMENT SUPPLIER
21B	ASSEMBLY COUNTER HEAT LAMPS	HATCO GRAL-48D6	(4) 208V/120V/1PH 9.9A				VERIFY CONFIGURATION WITH EQUIPMENT SUPPLIER
21C	ASSEMBLY COUNTER HEAT LAMPS	HATCO GRAHL-42D3	208V/120V/1PH 10A				VERIFY CONFIGURATION WITH EQUIPMENT SUPPLIER
21D	PLATE SHELF HEAT LAMP	HATCO GRAH-36D3	115V/1PH 800 WATTS				SS KEMP TO PROVIDE S/S INSULATED PANEL BEHIND HEAT LAMP. GC TO COORDINATE LOCATION OF ELECTRICAL OUTLETS WITH S/S PANEL.
21E	LIGHT BOX	HATCO HL-24	115V/1PH 120 WATTS				GC TO COORDINATE LOCATION OF ELECTRICAL OUTLETS WITH S/S PANEL.
22	10 BUTTON MERIDIAN TIMER		120V				
22A	8 BUTTON ZAP TIMER		120V				
22B	4 BUTTON ZAP TIMER		120V				
22C	12 BUTTON ZAP TIMER		120V				
23	TRIPLE HOT WELLS W/DRAIN	WELLS MOD-300TDM 1PH	208V/1PH 18 AMPS			FS	INDIRECT CONNECTION TO FLOOR SINK - COPPER PIPING ONLY!! DRAIN LINE AND BALL VALVE BY PLUMBING CONTRACTOR CORD BY ELECTRICIAN
24	STEAM TABLE COUNTER W/FAUCET	CUSTOM STAINLESS SPECIALTIES T&S B-0208			1/2"HW	1-1/2"OD	EXTEND TO FLOOR SINK - COPPER PIPING ONLY!!
25	POTATO WARMER	CUSTOM W/HATCO GRSBF-30-I & HATCO GRA-30D3	120V 900 WATTS 120V 900 WATTS				
26	MECHANICAL COLD WELL (DROP-IN)	RANDELL RCP-1	115V 5.5 AMPS			FS	PLUMBER TO PROVIDE DRAIN LINE W/ BALL VALVE FOR INDIRECT CONNECTION TO FLOOR DRAIN - COPPER PIPING ONLY!
27	HOT WELL W/DRAIN	WELLS MOD-100TD	120V 13.8 AMPS			FS	INDIRECT CONNECTION TO FLOOR SINK - COPPER PIPING ONLY!! DRAIN LINE AND BALL VALVE BY PLUMBING CONTRACTOR
28	DIPPER WELL	COMPONENT HARDWARE K30-1010			1/2"HW	FS	PC TO PROVIDE INDIRECT CONNECTION TO FLOOR DRAIN
29	S/S ASSEMBLY TABLE	CUSTOM					
30	TABLETOP KETTLE	GROEN TDB-40	208V 3PH 30A		1/2" HW		ELECTRICIAN TO SUPPLY CORD AND PLUG
30A	TABLETOP KETTLE CART W/ DRAIN	GROEN TS/9-124700 TS/9-124704				FS	
31	CHEESE MELTER	VULCAN HART 1036C	208V/1PH 17.3 AMPS				ELECTRICIAN TO SUPPLY CORD AND PLUG
32	COOK AND HOLD OVEN ON CASTERS	ALTO SHAM 750-TH-111	208V 1PH 14.5 AMPS				ON CASTERS WITH POLY CUTTING BOARD TOP
33	BUN TOASTER	STAR BQ-3	120V 14.6 AMPS				
34	S/S SALAD PICK-UP TABLE	CUSTOM			1/2"CW 1/2"HW	1-1/2"IPS	TUBULAR SUPPORTS IN ALL LOCATIONS INCLUDES SIDE SPLASHES FOR BOTH SIDES-ALL LOCATIONS
35	HAND SINK W/ KNEE PEDAL	COMPONENT HARDWARE FS17D-10145AK2			1/2"HW		ATTACH TO HAND SINK FAUCET
35A	EYE WASH ATTACHMENT	FRONT LINE 5179			1/2"CW 1/2"HW		TUBULAR SUPPORTS IN ALL LOCATIONS
35B	HAND SINK	ADVANCE TABCO 7-PS-66, T&S 5F-4WLX03				1-1/2"IPS	INCLUDES SIDE SPLASHES FOR BOTH SIDES-ALL LOCATIONS
36	S/S PICK-UP TABLE	CUSTOM					
37	HOT WELL (SINGLE W/DRAIN)	WELLS MOD-100TD	120V 13.8 AMPS				DRAIN LINE AND BALL VALVE BY PLUMBER - COPPER PIPING ONLY!!
38	REACH-IN REFRIGERATOR W/COLD TOP	BEV AIR SPE60HC-16	120V 9.9 AMPS				
39	S/S PICK-UP TABLE	CUSTOM					
40	CONVECTION OVENS (DOUBLE STACKED)	BLODGETT SHO-G TRH DBL	120V 6 AMPS	3/4" 50,000 BTU X2			
41	PROOFING CABINET	PIPER PRODUCTS CUSTOM RIP-1-TXR-MANUAL FILL	208V/1PH 16 AMPS			TRENCH DRAIN	
42	UC HOT CABINET	CRESCOR H-339-SBS-1210C	120V 7.5 AMPS				
43	S/S WORK TABLE W/ DOUBLE OVERSHELF	CUSTOM					ON CASTERS
44	S/S EQUIPMENT STAND	ADVANCE TABCO ES-304					
45	6 BURNER RANGE	VULCAN HART VHP848-0100J		3/4" 240,000 BTU			OPEN BASE ON SIDE FOR CAN RACK
46	S/S WORK TABLE	ADVANCE TABCO TKSS-306					
47							
48	MIXER	HOBART HL400	208V/3PH 5.6 AMPS				
49	TILT SKILLET	MARKET FORGE 1200	208V/3PH 25AMPS		1/2" HW		ELECTRICIAN TO SUPPLY CORD AND PLUG
49A	TILT SKILLET FAUCET	COMPONENT HARDWARE KL69-2000-VB			1/2" HW		
50	EXHAUST HOOD (PREP/BAKERY)	LC SYSTEMS/ HALTON	SEE LC DWGS			FD	INDIRECT CONNECTION TO FLOOR SINK USE COPPER PIPE ONLY!!! SEE HOOD DRAWINGS FOR DETAILS
51	EXHAUST HOOD (COOKLINE)	LC SYSTEMS/ HALTON	SEE LC DWGS				SEE HOOD DRAWINGS FOR DETAILS
52	EXHAUST HOOD (DISH)	LC SYSTEMS/ HALTON	SEE LC DWGS				
53							SEE HOOD DRAWINGS FOR DETAILS
54	BREAD PICK-UP SHELF	CUSTOM - SEE ARCHITECTURAL WINDOW DETAILS FOR SIZING					ELECTRICIAN TO SUPPLY CORD AND PLUG.
55	REFRIGERATED DISPLAY CASE	McCRAY SC-CMS35-4-S5KSD	120V 6 AMPS				
56	BREAD WARMING CABINET	CRESCOR H-339-X12SCLTR	120V 7.5 AMPS				
57	BAKER'S TABLE	JOHN BOOS DSB09-X					ELECTRICIAN TO VERIFY PROPER ROTATION DIRECTION
58	MIXER	HOBART HL600-1	208V/3PH 10 AMPS				ON/OFF SWITCH PART OF HEAT LAMP ASSEMBLY
59	HANGING HEAT LAMPS	HATCO DL-760CL	120V 250 WATTS				
60	MEAT GRINDER	UNIVEX PM81 W/ ATTACHMENTS	120V 1HP.				
61	MEAT CUTTING TABLE	ADVANCE TABCO KSS-306					
62	MEAT TENDERIZER	LUMAR IDEAL II MT-M5-TR					
63	S/S WORK TABLE	ADVANCE TABCO KSS-246					MODIFIED TO 42"L
64	S/S WORK TABLE	ADVANCE TABCO KSS-304					NO LIP
65	2 COMPARTMENT PREP SINK	ADVANCE TABCO FS-2-2424-24R			1/2"CW 1/2"HW	1-1/2"OD	PLUMBER TO SUPPLY STAND-OFF SUPPORTS FOR DRAIN LINES
66							
67							NO LIP
68	2 COMPARTMENT PREP SINK	ADVANCE TABCO FS-3-2424-24L			1/2"CW 1/2"HW	1-1/2"OD	PLUMBER TO SUPPLY STAND-OFF SUPPORTS FOR DRAIN LINES
69	SALAD SPINNER W/CASTERS	HOBART SDPS-11	120V 2.5 AMPS				
70	DIRTY DISH TABLE	CUSTOM - TRASH SLOT INSTEAD OF CUTOUT			1/2"CW 1/2"HW	FS	SILVERWARE CATCHER ON TRASH CAN LID RATHER THAN MOUNTED TO TABLE PLUMBER TO PROVIDE AND INSTALL STAND-OFF SUPPORTS FOR DRAIN LINES
71	PRE-RINSE SPRAYER	BK RESOURCES BKF-IMFOR-WB-G					
72	DISH MACHINE	ECOLAB ECOTEMP EC44PH	208V/3PH 48.75 AMPS		3/4"HW	FS	BACK SIPHON PROTECTION ON WATER LINE ELECTRICIAN TO PROVIDE DISCONNECT IF REQUIRED BY CODE
72A	BOOSTER HEATER	ECOLAB C24	208V 3 PH 66.7A		3/4"HW	FS	P.C. TO PROVIDE 3/4" COPPER ROUGH IN CONNECTION TO BOOSTER, ISOLATION VALVES AND 3/4" FEED TO DISH MACHINE INLET

ITEM #	DESCRIPTION	MANUFACTURER and MODEL #	ELECTRIC	GAS	WATER	WASTE	COMMENTS
73	CLEAN DISH TABLE/ 3 COMPARTMENT SINK	CUSTOM			1/2" CW 1/2" HW	FS	PLUMBER TO PROVIDE AND INSTALL STAND-OFF SUPPORTS FOR DRAIN LINES
74	ICE MACHINES	SCOTSMAN EH430SL-1	120V 15AMP BREAKER		1/2"CW SOFT	FS	ELECTRICIAN & PLUMBER TO CONNECT PC TO RUN DRAIN LINE
74A	REMOTE CONDENSING UNITS	SCOTSMAN ECC1800-3	208V/3PH 19 AMPS				REMOTE CONDENSER REQUIREMENTS SEPARATE
75	ICE BIN	KLOPPENBURG 3080				FS TROUGH DRAIN	
76	VEGGIE SLICER ATTACHMENTS	HOBART VS9-12	120V 1 HP				
77	BAG-IN-BOX RACKS	COCA-COLA / CORNELIUS					SODA LINES RUN OVERHEAD AND THRU BACK BAR CHASE TO BAR GUN
78	CARBONATOR	COCA-COLA McCANNSES 30097	120V 7 AMPS, 120V 6.3 AMPS		1/2"CW (FROM FILTER)		VERIFY ALL DRINK SYSTEM REQUIREMENTS WITH COCA-COLA REPRESENTATIVE
78A	S/S CARBONATOR SHELF	COCA-COLA McCANNS #16-1446					
79	WATER FILTRATION SYSTEM	EVERPURE CB2O-312 (FOR SODA SYSTEM)			3/4"CW		
80	SHELVING PACKAGE	MILTHOUSE WALK-INS - REFRIGERATED CAPACITY SYSTEM					11" WIDE SHELVING (BEHIND COATER)
81	DUNNAGE RACKS	NEW AGE MODEL 20XX					
82	STEAM TABLE PAN RACKS	NEW AGE 1505					
83	SHEET PAN RACKS	NEW AGE #7331 W/CASTERS					
83A	COUNTER HEIGHT SHEET PAN RACK W/WORK TOP	NEW AGE #1313 W/CASTERS					
84	DECARBONIZING TANK	CLEAN X-PRESS CLEANTANK CXP006	120V 8.3 AMPS				
85	BEER KEG DOLLIES & STACKERS	MICROMATIC KD300, KS200			1/2" HW-CW		
86	POT FILLER	T&S B-0599-CR					
87							BEER LINES RUN THROUGH UNDERGROUND CHASE FROM INSIDE BEER WALK-IN
88	GLYCOL BEER CHILLING SYSTEM	CHILL-RITE MLN-33	120V 12 AMPS				TO DESIGNATED AREA INSIDE BACK BAR.
88A	BEER CHILLING SYSTEM SHELF	CHILL-RITE					
89							
90	S/S DRINK COUNTER	CUSTOM					
91	GLASSWARE RACKS						
93	ICED TEA BREWERS	BUNN TBQ-3	120V 15 AMPS		1/2"CW FILTERED		FOR ALL DRINK EQUIPMENT
94	S/S DRINK COUNTER	CUSTOM					
95	SODA DISPENSERS	COCA COLA BEV-OLUTION DROP-IN W/FS CABINET #44510	120V 12 AMPS			FS	PLUMBING CONTRACTOR TO PROVIDE BACK FLOW PREVENTORS
96	S/S DRINK COUNTER	CUSTOM					
97	COFFEE MAKERS	BUNN CWTF-TC	120V 11.4 AMPS		1/2"CW FILTERED		
98	ALUMINUM OVERSHELF W/UTENSIL RACK	NEW AGE 1127PR					
99	ALUMINUM WALL SHELVES	NEW AGE 9728"					SPECIAL INVERTED BRACKETS
100	S/S POS STAND	ADVANCE TABCO EK-SS-244M					
101	S/S WALL SHELVING						
101A	S/S WALL SHELVING W/ TICKET RAILS						
102	CORNER STAINLESS 18X18	CUSTOM					
103	UNDER COUNTER REFRIGERATOR	TRAULSEN UHT27	120V 7.5 AMPS				
104	U/C REFRIG	TRAULSEN UHT27	120V 7.5 AMPS				
105	FLY FAN	BERNER SHO27-1046AA-P	120V/1PH 3/4 HP				
106	UTENSIL WALL GRID W/ ACCESSORIES						
107	WALL MOUNT REFRIGERATOR	GLASTENDER WMR24X-L	120V 3 AMPS (SEPARATE 15 AMP CIRCUIT)				FOR ALL KITCHEN CORNERS AND GAPS BETWEEN WALK-INS AND WALLS
108	S/S CORNER GUARDS AND TRIM PIECES	CUSTOM					
109							
110	POS TERMINALS	OWNER SUPPLIED	120V 2 AMPS (ISOLATED GROUND)				
111	POS PRINTERS	OWNER SUPPLIED	120V 2 AMPS (ISOLATED GROUND)				
112	CASH DRAWERS	OWNER SUPPLIED					
118	POT RACK	ADVANCE TABCO SW1-36 MOD					
128	EXTERIOR METAL BENCH	WABASH VALLEY KE1422S-T					
129	POT RACK	ADVANCE TABCO SW1-60					
A	18" DRAIN BOARD	ADVANCE TABCO CRD-18C-SS				1" IPS	USE ONLY COPPER DRAIN LINES 1 FURNISHED & INSTALLED BY PC ATTACH TO ADJACENT UNIT (ONE SET OF LEGS)
B	ICE BIN W/ CIRCUIT COLD PLATE	ADVANCE TABCO CRI-16-36-7				1/2" IPS	USE ONLY CONDENSER LINES 1 FURNISHED & INSTALLED BY PC
C	S/S SERVICE BAR TOP W/DRAIN PAN	CUSTOM				1/2" IPS	SPECIAL CONFIGURATION BETWEEN ICE BIN AND DRAIN BOARD
D	30" DRAIN BOARD W/DOUBLE UNDER SHELVES	ADVANCE TABCO CRD-30BM				1" IPS	USE ONLY COPPER DRAIN LINES 1 FURNISHED & INSTALLED BY PLUMBING CONTRACTOR
E	60" MUG FROSTER	PERLICK FR60	120V 7.1 AMPS				USE ONLY COPPER DRAIN LINES 1 FURNISHED & INSTALLED BY PC ATTACH TO ADJACENT UNIT (ONE SET OF LEGS)
F							
G	GLASS WASHER	BAR MAID A-200	120V 15 AMPS				
H	BAR HAND SINK W/SIDE SPLASHES	ADVANCE TABCO SC-12-TS-SS-S			1/2"CW 1/2"HW	1-1/2" IPS	FAUCET INCLUDED
I							
J	BOTTLE COOLER	PERLICK BC24	120V 3.2 AMPS				
K	4 COMPARTMENT BAR SINK	ADVANCE TABCO CUSTOM TEXASSINK-(L or R)			1/2"CW 1/2"HW	1-1/2"IPS to FS	USE ONLY COPPER DRAIN LINES 1 FURNISHED & INSTALLED BY PC
L	SODA GUNS	COCA-COLA					CONTACT COKE REPRESENTATIVE FOR ANY SPECIAL REQUIREMENTS
M	FROZEN COCKTAIL MACHINE	TAYLOR 428	120V 13 AMPS				SELF CONTAINED COUNTER TOP UNIT
N	CHILLED BEVERAGE MACHINE	GRINDMASTER-CECILWARE D25-3	120V 5.5 AMPS				
O	UNDERCOUNTER BEER TOWER (9 SPIGOT)	CHILLRITE CUSTOM				FS	CUSTOM S/S DRIP PAN MUST BE SEALED WATER TIGHT TO BAR TOP BY INSTALLER USE ONLY COPPER DRAIN LINES 1 FURNISHED & INSTALLED BY PC
P	COUNTER TOP LIQUOR DISPLAY	CUSTOM MILLWORK	120V 1PH				ELECTRICAL CONNECTION FOR INTERNAL LIGHTING
Q							
R	UNDER COUNTER REFRIGERATOR	TRAULSEN UHT27	120V 7.5 AMPS				S/S EXTERIOR
R1	UNDER COUNTER REFRIGERATOR	TRAULSEN UHG48-LR-0100-ZTR01	120V 7.5 AMPS				S/S EXTERIOR
S	BACK BAR ASSEMBLY (S/S)	CUSTOM					
T							
U							
V	SPEED RAILS	ADVANCE TABCO SRK-3					
W							
X							
Y	BAR TOP	CUSTOM MILLWORK PACKAGE					
Z	BAR OVERSTRUCTURE	CUSTOM MILLWORK PACKAGE					

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SEAL

ADAM T. POWELL LICENSE No. 73853 STATE OF FLORIDA PROFESSIONAL ENGINEER

Engineer of Record:
ADAM T. POWELL, PE
FL. REG. NO. PE73853

ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	
DATE:	09/19/2019
DRAWN BY:	
CHECKED BY:	

SHEET TITLE

ELECTRICAL KITCHEN EQUIPMENT SCHEDULE

SHEET NUMBER

E602

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DIVISION 16 – ELECTRICAL

SECTION 16050 – GENERAL NOTES AND SPECIFICATIONS

1. GENERAL

A) CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, LABOR, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND RELATED ITEMS TO INSTALL A COMPLETE AND FULLY OPERATIVE INTERIOR AND EXTERIOR ELECTRICAL SYSTEM AS SPECIFIED HEREIN, SHOWN ON THE DRAWINGS AND ELSEWHERE REQUIRED.

B) ALL OUTLETS, FIXTURES AND EQUIPMENTS SHALL BE FULLY CONNECTED TO PROPER SOURCES OF POWER SUPPLY AND LEFT READY TO USE.

C) PROVIDE ALL EXCAVATION AND TAMP–BACKFILL AS REQUIRED TO COMPLETE WORK. CORRECT ANY SETTING DURING GUARANTEE PERIOD TO OWNER'S SATISFACTION.

D) PROVIDE ALL NECESSARY CUTTING AND PATCHING AS REQUIRED TO COMPLETE WORK. PATCHING SHALL BE DONE BY MECHANICS SKILLED AT THEIR WORK. ALL OPENINGS SHALL BE FILLED AND PATCHED TO CONFORM WITH FIRE REGULATIONS.

E) COOPERATE WITH OTHER TRADES: MAKE KNOWN TO OTHER TRADES ARRANGEMENT OF ELECTRICAL WORK AND EXAMINE WORK OF OTHER TRADES TO AVOID CONFLICTS. EXAMINE DRAWINGS OF OTHER TRADES TO DETERMINE EXACT EQUIPMENT LOCATIONS. EXAMINE MANUFACTURER'S SHOP DRAWINGS TO DETERMINE ROUGHING–IN REQUIREMENTS.

F) PERMITS – FEES–CODES: PAY ALL COST FOR PERMITS, FEES AND INSPECTIONS REQUIRED BY AUTHORIZED AGENCIES HAVING JURISDICTION OVER ELECTRICAL WORK. ELECTRICAL SYSTEM SHALL CONFORM TO REQUIREMENTS OF NATIONAL, STATE AND LOCAL ELECTRIC CODES, LOCAL AUTHORITIES AND UTILITY COMPANY.

G) EQUIPMENT MANUFACTURERS LISTED ARE TO INDICATE PRODUCT QUALITY; OTHER MANUFACTURERS OF EQUAL QUALITY WILL BE ACCEPTABLE UPON WRITTEN APPROVAL OF OWNER. ALL ELECTRICAL MATERIALS SHALL BE NEW, LISTED AND LABELED BY UL AND SHALL CONFORM TO INDUSTRY STANDARDS, PARTICULARLY NEMA, NFPA, N.E.C. & OTHERS.

H) PROVIDE TYPEWRITTEN DIRECTORIES IN PANELBOARDS WITH CLEAR PLASTIC SHIELDS. PROVIDE ENGRAVED PLASTIC LOAD NAMEPLATES ON ALL DISCONNECT SWITCHES, MOTOR STARTERS AND CONTROL DEVICES.

I) TESTS: ENTIRE ELECTRICAL SYSTEM SHALL BE FULLY TESTED AND CORRECTED OF ANY SHORT CIRCUITS, OPEN GROUNDS, FAULTY WIRING AND INCORRECT CONNECTIONS.

J) GUARANTEE: COMPLETE ELECTRICAL SYSTEM INCLUDING ALL MATERIALS, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BEGINNING WITH DATE OF ACCEPTANCE OF BUILDING BY OWNER.

K) EACH BIDDER SHALL, BEFORE SUBMITTING A PROPOSAL, VISIT AND EXAMINE THE SITE IN ACCORDANCE WITH DIVISION 1 TO SATISFY HIMSELF AS TO MATERIALS AND SCOPE OF THE NEW CONSTRUCTION AND ANY DIFFICULTY ATTENDING THE PERFORMANCE OF THE WORK.

L) THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUCTED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. CLAIMS MADE SUBSEQUENT TO THE TIME OF SUBMISSION OF THE PROPOSAL FOR LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAS AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

M) WORKMANSHIP: ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN NEAT, WORKMANLIKE MANNER. UNSIGHTLY INSTALLATIONS SHALL BE REMOVED OR REWORKED AT NO ADDITIONAL EXPENSE TO THE OWNER.

SECTION 16121 – BASIC MATERIALS AND METHODS

1. GENERAL

A) SECTION 16A APPLIES TO ALL WORK HEREUNDER AND SHALL INCLUDE CONDUIT, BOXES, WIRE, WIRING DEVICES, LIGHTING FIXTURES AND RELATED MATERIALS.

2. MATERIALS

A) CONDUIT

1) CONNECTIONS TO EQUIPMENT WHICH SHALL BE MADE WITH THREE FEET FLEXIBLE LIQUIDTIGHT CONDUIT WITH LIQUIDTIGHT CONNECTORS.

2) CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH SIX FEET OF FLEXIBLE CONDUIT FROM A BOX. LOCATE BOX TO PROVIDE RELOCATION OF FIXTURES.

3) INTERMEDIATE GRADE CONDUIT WITH THREADED FITTINGS SHALL BE PROVIDED IN SLAB–ON–GRADE, OUTSIDE BUILDING, BURIED BELOW GRADE AND IN WET LOCATIONS.

4) "MC" CABLE MAY BE USED IN NON–VISIBLE LOCATIONS.

5) RIGID GALVANIZED CONDUIT MUST BE USED IN EXPOSED AREAS OF THE DINING ROOM.

6) ALL OTHER CONDUIT SHALL BE ELECTRIC METALLIC TUBING WITH COMPRESSION TYPE FITTINGS. EXCEPT EXTERIOR EXPOSED CONDUIT SHALL BE RIGID GALVANIZED CONDUIT.

B) BOXES

1) CONCEALED BOXES SHALL BE 4 INCH SQUARE GALVANIZED STEEL WITH GALVANIZED EXTENSION RINGS, TOTAL DEPTH OF NOT LESS THAN 2–1/2 INCHES.

2) SURFACE MOUNTED BOXES SHALL BE PRESSED GALVANIZED STEEL, UTILITY TYPE.

C) WIRE & CABLE (600V AND LESS)

1) THE WIRE MEETING REQUIREMENTS BELOW SHALL BE SUITABLE FOR SECONDARY POWER AND LIGHT CIRCUITS AND CONTROL CIRCUITS WITHIN THE LIMITATIONS OF THESE SPECIFICATIONS.

2) INSULATED WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED.

3) ALL WIRE SHALL BE BROUGHT TO THE JOB IN UNBROKEN PACKAGES, AND SHALL BEAR THE DATE OF MANUFACTURING AND SHALL NOT BE OLDER THAN TWELVE MONTHS.

4) TYPE OF WIRE SHALL BE AS FOLLOWS:

A. UNLESS OTHERWISE SPECIFIED OR INDICATED OTHERWISE ON DRAWINGS, ALL #12 AND #10 WIRE SHALL BE THW OR THHN AND ALL WIRE #8 AND LARGER SHALL BE THWN–THWN TYPE.

B. WIRING ADJACENT TO HEAT PRODUCING EQUIPMENT SHALL BE TYPE AVA.

C. NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED, EXCEPT FOR SIGNAL OR CONTROL SYSTEMS, OR WHERE OTHERWISE INDICATED. WIRE SHALL BE COPPER, 600 VOLT MINIMUM RATING, EXCEPT FOR SPECIAL SYSTEMS. HIGHER VOLTAGE RATING SHALL BE PROVIDED WHEN REQUIRED BY MANUFACTURES SUCH AS WIRING BETWEEN A LIGHT FIXTURE AND REMOTE BALLAST.

D. LOW VOLTAGE WIRING USED IN UNDERGROUND CONDUIT AND OTHER AREAS SUBJECT TO EXTREME DAMPNESS SHALL BE RHW OR XHHW TYPE INSULATION.

E. UNLESS NOTED OTHERWISE, ALL CONDUCTORS SHALL BE SOFT DRAWN COPPER CONFORMING TO THE LATEST ASTM SPECIFICATIONS AND THE LATEST REQUIREMENTS OF NEC. UNLESS OTHERWISE NOTED OR SPECIFIED, ALL INSULATION SHALL BE RATED 600 VOLT.

F. ALL WIRE SHALL BE AS MANUFACTURED BY GENERAL CABLE CO., PHELP DODGE, ANACONDA, OR A CABLE EQUIVALENT.

G. ALL WIRE SHALL BE INSTALLED IN CONDUIT AND COLOR CODED. ALL WIRE SHALL BE SIZE CONDUCTIVE COPPER, RATED FOR MAXIMUM OF 600 VOLTS. ELECTRICAL WIRE TYPE SHALL BE COPPER, UNLESS OTHERWISE SPECIFIED ON THE RISER DIAGRAM SHOWN ON E3 AND IS ACCEPTABLE BY LOCAL CODES.

H. ALL EXTERIOR WIRE SHALL BE INSTALLED IN CONDUIT AND COLOR CODED. ALL WIRE SHALL BE ALUMINUM, RATED FOR MAXIMUM OF 600 VOLTS. ELECTRICAL WIRE TYPE SHALL BE ALUMINUM, UNLESS OTHERWISE SPECIFIED ON THE RISER DIAGRAM SHOWN ON E3 AND IS ACCEPTABLE BY LOCAL CODES.

D) WIRE CONNECTORS

1) WIRE CONNECTORS FOR SIZED #10 AWG AND LESS SHALL BE "PRESS–SNURE", IDEAL "WIRM–CAP", T & B "STAKONS" OR 3M "SCOTCHLOK". CONNECTORS FOR WIRE SIZE #8 AND LARGER SHALL BE T & B OR BURNDY METHODS USING HYDRAULIC PRESSES.

E) ELECTRIC TAPE SHALL BE JOHNS–MANVILLE "DUCH–BRAND" 3M "SCOTCH BRANCH" OR PLYMOUTH "SLIPKNOT BRAND".

F) CEILING FAN AND NEON SWITCHES SHALL BE BLACK. REMAINING WALL SWITCHES SHALL BE WHITE OR BROWN AND SHALL BE AS FOLLOWS OR APPROVED EQUAL:

1) 20A, SP, 125/277V. HUBBELL #1221.

2) 20A, 3W, 125/277V. HUBBELL #1223.

3) 20A, 4W, 125/277V. HUBBELL #1224.

4) 20A, SP, 125/277V. WITH PILOT LIGHT – HUBBELL #1221–PL.

5) 20A, SP, 125/277V. WEATHERPROOF – HUBBEL #1281/1795.

6) 20A, SP, 125/277V. KEY SWITCH, HUBBELL #1221–L.

G) RECEPTACLES SHALL BE WHITE WITH STAINLESS COVERS, (i.e. KITCHEN) EXCEPT BROWN SHALL BE INSTALLED TO MATCH FINISHES (BLACK AS ALTERNATE) AND SHALL BE AS FOLLOWS OR APPROVED EQUAL. PROVIDE OTHER RECEPTACLES AS INDICATED ON THE DRAWINGS.

1) 20A, 125V., DUPLEX – HUBBELL #5362 ().

2) 20A, 250V., 2W+G – HUBBELL #5461.

3) 50A, 250V., 3W+G – ARROW–HART #5700, BRYANT #9630FR OR P & S #5950.

4) GROUND FAULT CIRCUIT INTRUPTIOPN FOR PERSONEL (20A/125V) – HUBBELL #GF–5362 WHERE PERMITTED, PROVIDE WEATHERPROOF COVERS HUBBELL #WP26M AND WEATHER RESTANT GFI RECEPTACLES HUBBELL #GFTR20 FOR DAMP AND WET LOCATIONS, IG–GFI RECEPTACLES SHALL BE LEGRAND #1595–IGTRO OR APPROVED EQUAL. PROVIDE GFI OUTLETS (GFI CIRCUIT BREAKERS IN THE PANELBOARD) WHERE RECEPTACLE'S TEST AND RESET BUTTONS ARE NOT LOCATED IN THE READILY ACCESSIBLE LOCATION. FIELD VERIFY PRIOR TO BID.

5) CLOCK AND SIGN HANGER – ARROW–HART #5708, BRYANT #3228–GS OR HUBBELL.

H) PLATES

1) PROVIDE FACE PLATES FOR ALL DEVICES INCLUDING WALL SWITCHES, RECEPTACLES, TELEPHONE OUTLETS AND ALL WALL OUTLETS CEILING FAN AND NEON FACE PLATES SHALL BE BLACK. FACE PLATES SHALL BE SATIN FINISHED STAINLESS STEEL IN ALL FOOD PREPARATION AREAS AND COMMERCIAL GRADE SMOOTH UNBREAKABLE PLASTIC IN LOBBY/DINING, OR DARK BROWN OR WHITE TO MATCH DEVICES AND WALLS.

I) LIGHTING FIXTURES

1) LIGHTING FIXTURES SHALL BE FURNISHED BY CONTRACTOR AS SCHEDULED ON DRAWINGS EXCEPT FOR THOSE INDICATED TO BE FURNISHED BY OWNER. CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES. PROVIDE NECESSARY MOUNTING HARDWARE. ALL RECESSED LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED AS REQUIRED BY CODE.

J) LAMPS

1) OWNER SHALL FURNISH AND CONTRACTOR SHALL INSTALL ONE COMPLETE SET OF LAMPS FOR ALL LIGHTING FIXTURES. PROVIDE LABEL IN EACH FIXTURE INDICATING SIZE AND TYPE OF LAMP CORRESPONDING WITH SCHEDULE ON DRAWING. SIZE SHALL BE MARKED "MAXIMUM WATTAGE".

2) FLUORESCENT LAMPS SHALL BE STANDARD COOL WHITE, ENERGY EFFICIENT.

3) INCANDESCENT LAMPS SHALL BE INSIDE FROSTED WITH 2500 HOUR LAMP LIFE RATED 130 VOLTS.

K) FLUORESCENT BALLASTS SHALL BE ENERGY EFFICIENT, CLASS "P".

3. EXECUTION

A) RACEWAY SYSTEM

1) ALL WIRE SHALL BE (INSTALLED IN A METAL RACEWAY AND SHALL BE) CONCEALED WHERE POSSIBLE. WHERE NECESSARY TO EXPOSE THE WIRING THE RACEWAY SHALL BE INSTALLED AS INCONSPICUOUSLY AS POSSIBLE AND IN STRAIGHT LINES WITH 90–DEGREE BENDS, PARALLEL WITH BUILDING LINES. RACEWAYS SQUARE, REAM SMOOTH AND MAKE–UP TIGHT. PLUG ENDS OF RACEWAYS FURRING CONSTRUCTION AND SWAB CLEAN BEFORE PULLING WIRE OR CABLE. SUPPORT RACEWAYS FROM BUILDING STRUCTURE MEMBERS ONLY WITH APPROVED FASTENERS DESIGNED FOR THE PURPOSE.

2) RACEWAY SYSTEM SHALL BE INSTALLED TO MAINTAIN THE MAXIMUM HEADROOM WITH REQUIRED SUPPORTS FOR THE LOAD. ALL ANCHORS, STRAPS AND CLIPS SHALL BE THE TYPE DESIGNED FOR THE PURPOSE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. COMMON SUPPORTS SHALL BE USED FOR MECHANICAL AND ELECTRICAL EQUIPMENT BY COORDINATING THE WORK WITH ALL TRADES.

3) ALL ELECTRICAL BOXES SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS INDEPENDENTLY OF THE CONDUIT RACEWAYS, MECHANICAL SYSTEMS OR SUSPENDED CEILING SUPPORTS. RECESSED BOXES SHALL BE FLUSH WITH SURROUNDING SURFACES. ALL BOXES AND CABINETS SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE CLEANED BEFORE PULLING WIRE AND INSTALLING DEVICES.

4) SIZE OF CONDUIT SHALL NOT BE LESS THAN 3/4" AND NOT LESS THAN REQUIRED BY THE NATIONAL ELECTRICAL CODE. SUBCONTRACTOR SHALL INSTALL LARGER SIZE CONDUITS THAN DETAILED WHERE THERE IS AN EXCESSIVE LENGTH OF UNBROKEN RUN OR AN EXCESSIVE NUMBER OF BENDS.

B) WIRE

1) USE ONLY APPROVED TYPE WIRE–PULLING LUBRICANTS FOR WIRE #4 AWG OR LARGER. SPLICE WIRE ONLY IN ACCESSIBLE BOXES. MAKE WIRE JOINTS MECHANICALLY STRONG BEFORE APPLYING THE CONNECTOR AND WHERE TAPE IS USED, WRAP EACH JOINT TO THE THICKNESS OF THE ORIGINAL INSULATION. CLEAN AND POLISH METALLIC SURFACES BEFORE INSTALLING CONDUCTORS. APPLY PRESSURE TYPE LUGS ON STRANDED CONDUCTORS CONNECTED TO SCREW OR BOLT TYPE CONNECTIONS.

C) WIRING DEVICES

1) UNLESS NOTED OTHERWISE, RECEPTACLES SHALL BE INSTALLED 18" ABOVE THE FINISHED FLOOR. SWITCHES SHALL BE 48" AND CLOCK HANGERS 8'–0". RECEPTACLES NOTED ABOVE WORK COUNTERS AND CABINETS (AC) SHALL BE MOUNTED ABOVE THE SPLASH BACK. WEATHERPROOF RECEPTACLES SHALL BE INSTALLED SO THAT THE COVER PROTECTS THE DEVICE IN THE OPEN POSITION. PROVIDE A BONDING JUMPER BETWEEN THE BOX AND ALL RECEPTACLES.

D) EQUIPMENT CONNECTIONS

1) PROVIDE ALL NECESSARY MOTOR STARTERS (VERIFY HOOD FANS WITH SUPPLIER), DISCONNECT SWITCHES, CONTROLS, CONDUIT, BOXES, WIRE, ETC. AND CONNECT COMPLETE TO EACH PIECE OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS INDICATED ON THE DRAWINGS. WHERE EQUIPMENT RATINGS DIFFER FROM THAT INDICATED, CONSULT OWNER. CONSULT WITH EQUIPMENT SUPPLIER TO DETERMINE ROUGH–IN REQUIREMENTS. WHERE EQUIPMENT IS NOTED AS FUTURE, TERMINATE CIRCUIT IN JUNCTION BOX AND TAPE ENDS OF THE CONDUCTORS.

E) LIGHTING FIXTURES

1) PROVIDE ALL NECESSARY MOUNTING HARDWARE AND RELATED ITEMS TO PROPERLY INSTALL THE LIGHTING FIXTURES. FIXTURES SUPPORTED IN EXPOSED GRID CEILINGS SHALL BE PROVIDED WITH CLIPS. FIXTURES MOUNTED IN OR ON TILE CEILINGS SHALL BE ALIGNED WITH TILES. LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL MEMBERS EXCEPT FOR EXPOSED GRID CEILINGS WHERE A CEILING SUPPORTING WIRE SHALL BE PROVIDED AT EACH FIXTURE CORNER.

F) CLEANING

1) ALL EQUIPMENT INCLUDING PANELBOARDS, SWITCHES, WIRING DEVICES, LIGHTING FIXTURES, WALL PLATES, ETC. SHALL BE FREE OF CORROSION, DIRT, PAINT SPLATTER OR DAMAGE OF ANY SORT AT FINAL ACCEPTANCE OF THE WORK. CONTRACTOR SHALL CLEAN, REPAIR OR REPLACE SAME AS INSTRUCTED BY THE OWNER BEFORE FINAL PAYMENT.

G) POWER AND LIGHTING PANELS

1) POWER DISTRIBUTION PANEL "MDP" SHALL BE SQUARE D TYPE I–LINE, CUTLER HAMMER, GENERAL ELECTRIC HAVING 3–POINT CATCH WITH LOCKABLE HANDLE. THE SERVICE ENTRANCE EQUIPMENT SHALL BE UL LISTED AND LABELED FOR THAT APPLICATION. BUSSING SHALL BE ALUMINUM, TIN–PLATED. BRACE BUSSING FOR 100,000 A.I.C.

2) LIGHTING AND POWER PANELBOARDS SHALL BE SQUARE D TYPE NQOD, CUTLER HAMMER, GENERAL ELECTRIC WITH LOCKING DOOR AND FLUSH TRIM. BUSSING SHALL BE ALUMINUM, WITH BRACING TO SUIT INTERRUPTING RATING.

3) BREAKERS SHALL BE INDIVIDUAL MOLDED CASE, BOLT–IN STYLE, SIZED AS SCHEDULED. [illegible] WITH HANDLETIES ARE NOT ACCEPTABLE.

4) PANELS SHALL BE FLUSH–MOUNTED AS SHOWN ON PLANS.

5) CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY COMPANY FOR PROPER PANEL ASYMMETRICAL INTERRUPTING RATING. SUBMIT THIS INFORMATION WITH SHOP DRAWINGS ON PANELS, ALONG WITH LETTER FROM POWER COMPANY.

6) METER, C.T. CABINET, SERVICE CONDUCTORS AND CONDUIT, TRANSFORMER, ETC. SHALL BE PER LOCAL UTILITY REQUIREMENTS. COORDINATE SERVICE INSTALLATION WITH LOCAL UTILITY COMPANY, PROVIDING ALL NEEDED EQUIPMENT AND LABOR.

7) THE PRECEDING SECTIONS ARE FOR SITUATIONS IN WHICH THE OWNER IS NOT USING THE ELECTRICAL PACKAGE FURNISHED BY W.R. CONTROLS (SEE SHEET E3).

H) DIMMERS

1) FURNISH WHEN REQUIRED EQUAL TO LUTRON ROTARY DIMMERS. SIZE AS SHOWN ON PLANES. UL LISTED. FURNISH WITH SWITCH PLATE. DO NOT CUT OR REDUCE HEAT FINS ON DIMMERS.

I) GROUNDING

1) EQUIPMENT GROUNDING:

A. THE EQUIPMENT GROUNDING SYSTEM SHALL BE SUCH THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS ASSOCIATED WITH ELECTRICAL CIRCUITS OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE A LAW IMPEDANCE PATH FOR POSSIBLE GROUND FAULT CURRENTS.

B. WIREWAYS, SWITCHGEAR, PANELBOARDS AND MOTOR CONTROL PANELS SHALL BE PROVIDED WITH AN EQUIPMENT GROUND BUS (INCLUDING LUG OR SCREW TERMINALS) SECURELY BONDED TO THE ENCLOSURE. JUNCTION BOXES AND OTHER ENCLOSURES (SIZES ABOVE 5" X 5") SHALL UTILIZE AN EQUIPMENT GROUND BUS OR LUG AS REQUIRED TO SECURELY BOND THE EQUIPMENT GROUND CONDUCTOR TO THE ENCLOSURE.

C. ALL BRANCH CIRCUITS FOR POWER AND LIGHT SHALL INCLUDE A GREEN INSULATED GROUNDING CONDUCTOR. THE EQUIPMENT GROUND CONDUCTOR SHALL BE ELECTRICALLY AND MECHANICALLY CONTINUOUS FROM THE SOURCE OF SUPPLY TO THE EQUIPMENT TO BE GROUNDED.

D. LIGHTING FIXTURES SHALL BE SECURELY CONNECTED TO THE EQUIPMENT GROUND CONDUCTOR. A CONTINUOUS ROW OF FLUORESCENT FIXTURES MECHANICALLY JOINED TO PROVIDE A GOOD ELECTRICAL CONTACT MAY BE CONSIDERED AS ONE FIXTURE WITH THE EQUIPMENT GROUND CONDUCTOR CONNECTED AT ONLY ONE POINT.

E. MOTORS SHALL BE CONNECTED TO THE EQUIPMENT GROUND CONDUCTOR WITH A CONDUIT GROUNDING BUSHING AND WITH A BOLTED SOLDERLESS LUG CONNECTION ON THE METAL FRAME. BOLTS, NUTS AND WASHERS SHALL BE BRONZE, CADMIUM PLATED STEEL, OR OTHER NON–CORROSIVE MATERIAL.

F. ALL CONDUIT SHALL BE CONNECTED TO THE EQUIPMENT GROUND BUS BY MEANS OF A GROUNDING BUSHING.

G. E.C. SHALL COORDINATE WITH CASH REGISTER SYSTEM SUPPLIER TO CLARIFY ANY GROUNDING AND/OR WIRING REQUIREMENTS.

2) SYSTEM GROUND:

A. THE SERVICE GROUND SHALL BE SOLIDLY CONNECTED TO THE NEUTRAL BUS AND GROUND BUS AND ROUTED VIA GROUNDING ELECTRODE CONDUCTOR TO THE INCOMING BUILDING WATER SERVICE AHEAD OF THE MAIN CUTOFF VALVE.

B. THE SERVICE GROUND SHALL BE MADE AT THE SERVICE OVER CURRENT MAIN SWITCH.

C. TRANSFORMER GROUND (XO TERMINAL) SHALL BE CONNECTED TO THE NEAREST METALLIC COLD WATER PIPE OR BUILDING STEEL.

3) INSTALLATION:

A. ALL GROUNDING CONDUCTORS SHALL BE SIZED AS PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.

B. GROUND RODS: GROUND RODS SHALL BE THE COPPER CLAD STEEL TYPE AND SHALL BE A MINIMUM OF 8 FEET IN LENGTH AND 3/4 INCH IN DIAMETER. GROUND RODS SHALL BE AS MANUFACTURED BY COPPERWELD STEEL COMPANY, OR AND ACCEPTABLE EQUIVALENT.

C. GROUNDING ELECTRODE CONDUCTORS SHALL BE BARE STRAND COPPER. EQUIPMENT GROUND WIRE SHALL BE THW INSULATED AND SHALL BE GREEN IN COLOR.

D. CONNECTIONS TO WATER SERVICE SHALL BE MADE WITH SUITABLE GROUND CLAMP OF LUG CONNECTION AHEAD OF THE BUILDING METER OR CUTOFF VALVE.

E. CONNECTIONS TO GROUND RODS SHALL BE MADE BY A THERMAL WELD OF MECHANICAL COMPRESSION CLAMP.

F. GROUNDING CABLES EMBEDDED IN THE FLOOR SHALL BE MADE IN RIGID CONDUIT.

G. GROUND RODS SHALL BE DRIVEN FULL LENGTH DIAGONALLY INTO THE EARTH AND HAVE A ONE (1) FOOT MINIMUM COVER.

H. ALL CONDUCTOR CONNECTIONS SHALL BE MADE UP TIGHT TO PROVIDE CONTINUITY OF METALLIC GROUND.

I. GROUND WIRES NOT IN CONDUIT SHALL NE SUPPORTED EVERY FIVE (5) FEET.

4) TEST:

A. THE CONTRACTOR SHALL RUN A GROUND RESISTANCE TEST AND IF THE RESISTANCE TO GROUND IS GREATER THAN 25 OHMS, ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED. THE TEST SHALL NOT BE MADE WITHIN FIVE (5) DAYS AFTER A RAIN.

B. THE CONTRACTOR SHALL PROVIDE OWNER WITH A COPY OF THE TEST PROCEDURE AND RESULTS OF THE TEST.

C. THE GROUND TEST SHALL BE MEASURED IN THE PRESENCE OF AN AUTHORIZED REPRESENTATIVE OF THE ARCHITECT. NO EQUIPMENT SHALL BE OPERATED UNTIL GROUND POTENTIAL IS VERIFIED.

1. WORKMANSHIP

A) ALL WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THEIR TRADES AND SHALL BE TYPICAL OF THE BEST TRADE PRACTICES.

SECTION 16163 – SERVICE AND DISTRIBUTION

1. GENERAL

A) SCOPE: SECTION 16163 APPLIES TO ALL WORK HEREUNDER AND SHALL INCLUDE SERVICE, METERING AND DISTRIBUTION.

B) SERVICE: THE ELECTRICAL DISTRIBUTION IS 120/208 VOLTS, 3 PHASE, 4 WIRE 60 CYCLE. CONTRACTOR SHALL VERIFY SERVICE VOLTAGE WITH UTILITY COMPANY AND PROVIDE NECESSARY REVISIONS AND MODIFICATIONS REQUIRED. SERVICE ENTERS SPACE UNDERGROUND.

C) METERING: CONTRACTOR SHALL PROVIDE MODIFICATIONS NECESSARY METERING FACILITIES INCLUDING METER SOCKET, CURRENT TRANSFORMER CABINET CONDUIT AND OTHER WORK FOR METERING REQUIRED BY THE LOCAL UTILITY COMPANY.

2. MATERIALS

A) DISCONNECT SWITCHES: SHALL BE (HEAVY–DUTY TYPE, NEMA HD) (NORMAL DUTY TYPE, NEMA HD) FUSED UNLESS NOTED OTHERWISE, DESIGNED TO ACCEPT ONLY REJECTION TYPE FUSES AND OPERATOR INTERLOCKED WITH THE DOOR IN THE "OFF" POSITION. SWITCHES SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SQUARE D OF CUTLER–HAMMER.

B) FUSES: SHALL BE CURRENT LIMITING WITH 200,000 APWERES INTERRUPTING CAPACITY, UL INC. CLASS RK1 AND SHALL BE DUAL ELEMENT, TIME DELAY, CLASS R REJECTION TYPE. ONE WET OF SPARE FUSES SHALL BE PROVIDED FOR EACH SIZE AND MOUNTED IN "SPARE FUSE CABINET" LOCATED AT THE SERVICE ENTRANCE. FUSE IDENTIFICATION LABELS SHALL BE MANUFACTURED BY BUSSMAN OR SHAWMUT.

3. EXECUTION

A) DISCONNECT SWITCHES SHALL BE INSTALLED 4'–0" ABOVE FINISHED FLOOR. ALL CABINETS SHALL BE VACUUM CLEANED BEFORE PULLING WIRE.

4. INSTALLATION OF EQUIPMENT AND FIXTURES

A) INSTALL ALL EQUIPMENT AND FIXTURES FORMING PART OF THE WORK OF THIS SECTION IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL PERTINENT CODES AND REGULATIONS. MAKE ALL FINAL CONNECTIONS TO BAR AND KITCHEN EQUIPMENT.

5. [illegible]

A) LAMP ALL FIXTURES WITH LAMPS OF THE DESIGNED RATING AND PATTERN.

6. TESTING

A) GENERAL: UPON COMPLETION OF THIS PORTION OF THE WORK, FURNISH ALL EQUIPMENT AND PERSONNEL AND CONDUCT ALL TEST REQUIRED TO SECURE APPROVAL OF THE INSTALLATION FROM ALL AGENCIES HAVING JURISDICTION.

B) CRITERIA:

1) ALL SYSTEMS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS SHALL BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS AND SHALL SHOW AN INSULATION RESISTANCE BETWEEN PHASE CONDUCTORS AND GROUND OF NOT LESS THAN THAT REQUIRED BY THE NATIONAL ELECTRICAL CODE.

2) ALL SYSTEMS SHALL SHOW PROPER NEUTRAL CONNECTIONS.

7. CLEAN UP

A) ALL EQUIPMENT AND EXPOSED SURFACES SHALL BE LEFT SMOOTH AND CLEAN. ALL PLATE WORK SHALL BE POLISHED AND THE ENTIRE PREMISES SHALL BE CLEANED OF UNUSED MATERIALS, RUBBISH, DEBRIS AND GREASE SPOTS.

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ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	
DATE:	09/19/2019
DRAWN BY:	
CHECKED BY:	

SHEET TITLE

ELECTRICAL SPECIFICATIONS

SHEET NUMBER

E701

M:\PROJECTS\2019\08 TRH LAKE CITY FL\DRAWINGS\ELECTRICAL WORK–PLAN SHEETS.DWG | Owner | Sep 19,2019 – 12:32pm

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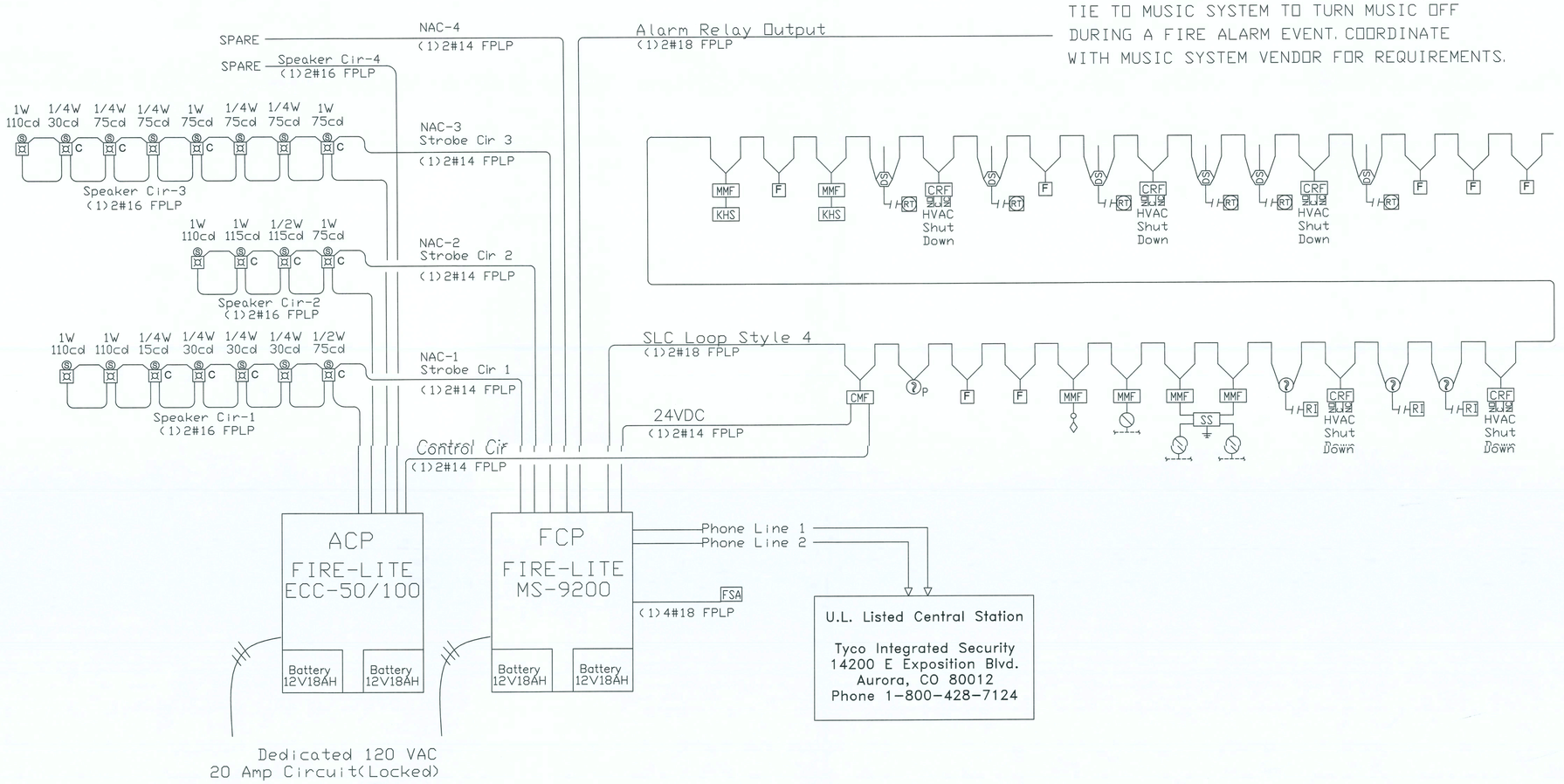

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FL. REG. NO. PE73853

ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	
DATE:	09/19/2019
DRAWN BY:	
CHECKED BY:	

SHEET TITLE

FIRE ALARM RISER DIAGRAM

SHEET NUMBER

FA002

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GENERAL NOTES

1. THESE FIRE ALARM SYSTEM DRAWINGS PROVIDED BY EMERALD ENGINEERING INC. ARE TO BE CONSIDERED PERFORMANCE SPECIFICATIONS ONLY AND NOT ENGINEER OF RECORD DRAWINGS. FIRE ALARM CONTRACTOR TO BE DESIGNER AND ENGINEER OF RECORD, PROVIDE SIGNED AND SEAL DOCUMENTS, AND SUBMIT FOR PERMIT.
2. SPEAKER STROBES ARE TO BE MOUNTED 80" AFF TO BOTTOM OF UNIT OR 6" FROM TOP OF CEILING, WHICH EVER IS LOWER.
3. MANUAL PULL STATIONS ARE TO BE MOUNTED 48" AFF, TO TOP OF UNIT.
4. ALL DEVICES ARE TO BE MOUNTED ON BACK BOXES.
5. ALL WIRING IS TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. ALL WIRE IS TO BE POWER LIMITED TYPE FPLP UNLESS OTHERWISE NOTED.
6. CONNECTIONS TO THE POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT. THE CIRCUIT AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. THE POWER CIRCUIT SHALL BE IDENTIFIED AS "FIRE ALARM CONTROL" THE LOCATION OF THE DISCONNECTION MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
7. SPRINKLER SYSTEM TO BE MONITORED THROUGH THE FIRE ALARM SYSTEM.
8. KITCHEN FIRE SUPPRESSION SYSTEMS TO BE MONITORED THROUGH THE FIRE ALARM SYSTEM.
9. DUCT MOUNTED SMOKE DETECTORS ARE TO BE INSTALLED IN THE SUPPLY AIR DUCT FOR UNIT SHUT DOWN AS REQUIRED BY LOCAL CODE. TYPICAL DUCT SMOKE REMOTE INDICATORS ARE TO BE LOCATED IN THE MANAGER'S OFFICE NEAR THE FIRE ALARM PANEL.
10. COORDINATE EXACT QUANTITY, LOCATION, AND MOUNTING HEIGHT OF ALL FIRE ALARM DEVICES WITH PLAN DRAWINGS, OWNER, AND THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
11. FIRE ALARM SYSTEM SHALL FEATURE AUTOMATIC PRE-RECORDED MESSAGE VOICE EVACUATION SYSTEM. OFF SITE MONITORING SHALL BE PROVIDED BY A U.L. LISTED MONITORING SERVICE.

FIRE ALARM LEGEND

SYMBOL	QTY	DESCRIPTION	MANUFACTURER PART NUMBER	MOUNTING REQUIREMENTS
FACP	1	FIRE ALARM CONTROL PANEL	FIRE-LITE MS-9200UDLS	SURFACE MOUNTED ENCLOSURE PROVIDED TOP 72" AFF CONDUIT TO CEILING
ACP	1	FIRE ALARM AUDIO CONTROL PANEL	FIRE-LITE ECC-50/100	SURFACE MOUNTED ENCLOSURE PROVIDED TOP 72" AFF CONDUIT TO CEILING
FARA	1	FIRE ALARM REMOTE AUTHENTICATOR	FIRE-LITE ANN-80	SINGLE GANG BOX 60" AFF CONDUIT TO CEILING
S P	2	SMOKE DETECTOR PHOTO ELECTRIC	FIRE-LITE SD355	SINGLE GANG, 3.5" OCTAGON OR 4" SQUARE BOX IN CEILING
F	6	MANUAL PULL STATION ADDRESSABLE	FIRE-LITE BG-12LX	SINGLE GANG BOX 38" TO CENTER, CONDUIT TO CEILING
MMF	6	ADDRESSABLE MONITOR MODULE	FIRE-LITE MMF-300 OR MMF-301	4" DEEP SQUARE BOX
DS	9	DUCT SMOKE DETECTOR	FIRE-LITE D355-PL	1/2" FLEX TO 4" SQUARE BOX
R	9	REMOTE INDICATOR TEST / RESET	SYSTEM SENSOR RTS-151	SINGLE GANG BOX
CRF	5	ADDRESSABLE RELAY MODULE	CRF-300	4" DEEP SQUARE BOX
KHS	2	KITCHEN HOOD SYSTEM	SUPPLIED BY OTHERS	1/2" FLEX TO 4" SQUARE BOX
WF	1	WATER FLOW SWITCH	SUPPLIED BY OTHERS	1/2" FLEX TO 4" SQUARE BOX, CONDUIT TO CEILING
TS	1	SPRINKLER VALVE TAMPER SWITCH	SUPPLIED BY OTHERS	1/2" FLEX TO 4" SQUARE BOX, CONDUIT TO CEILING
H	5	WALL SPEAKER STROBE CANDELA INDICATED	SYSTEM SENSOR SPSR MULTI CANDELA	4"X4"X2-1/8" DEEP SQUARE BOX 80" AFF TO BOTTOM OF UNIT
H C	11	CEILING SPEAKER STROBE CANDELA INDICATED	SYSTEM SENSOR SPCSR MULTI CANDELA	4"X4"X2-1/8" DEEP SQUARE BOX 80" AFF TO TOP OF UNIT
H WP	2	WALL SPEAKER STROBE OUTDOOR RATED	SYSTEM SENSOR SPSRK MULTI CANDELA	CUSTOM BACK BOX PROVIDED 80" AFF TO BOTTOM OF UNIT
CMF	1	ADDRESSABLE CONTROL MODULE	ADT CMF-300	4" DEEP SQUARE BOX
KB	1	KNOX BOX	CONSULT LOCAL FIRE DEPT. FOR TYPE	CONSULT LOCAL FIRE DEPARTMENT FOR MOUNTING REQUIREMENTS

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SEAL

ADAM T. POWELL LICENSE No. 73853 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SHEET TITLE

FIRE ALARM PLAN

SHEET NUMBER

FA201

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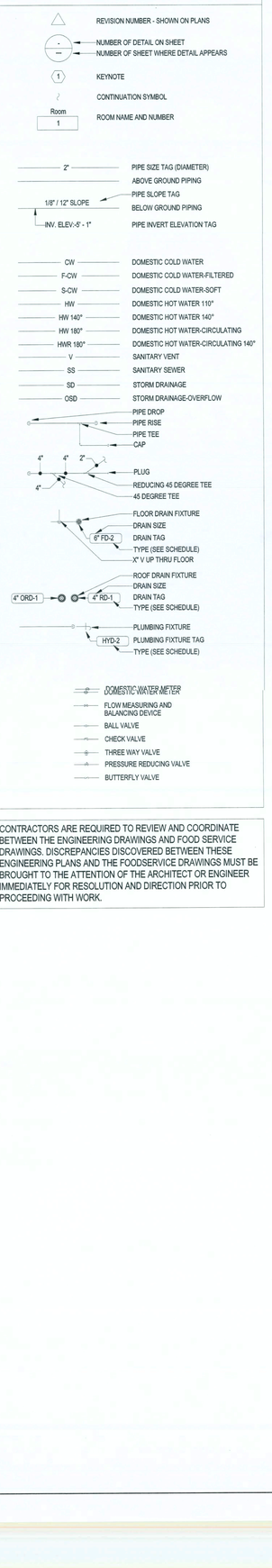
PLUMBING ABBREVIATIONS

ABV	ABOVE
ACOUS	ACOUSTICAL
ADD	ADDENDUM
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AUTO	AUTOMATIC
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BTU	BRITISH THERMAL UNITS
CAP	CAPACITY
CLG	CEILING
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECT
CONST	CONSTRUCTION
CONTR	CONTRACT/CONTRACTOR
COORD	COORDINATE
CTR	CENTER
CV	CHECK VALVE
CW	COLD WATER
CW	CLOCKWISE
DET	DETAIL
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DBP	DOMESTIC WATER BOOSTER PUMP
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXPJT	EXPANSION JOINT
EXT	EXTERIOR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FL	FLOOR
FLG	FLANGE
FS	FLOOR SINK
FT	FOOT/FEET
FUT	FUTURE
GA	GAGE/GAUGE
GC	GENERAL CONTRACTOR
GENL	GENERAL
GPH	GALLONS PER MINUTE
HB	HOSE BIB
HD	HEAD
HORZ	HORIZONTAL
HP	HORSE POWER
HTG	HEATING
HW	HOT WATER
HYD	HYDRANT
ID	INDIRECT
IN	INCH
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JT	JOINT
LB	POUND
LB/HR	POUNDS PER HOUR
LF	LINEAL FOOT
LOC	LOCATION
MAN	MANUAL
MATL	MATERIAL
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
O	OXYGEN
OF	OVERFLOW
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
PD	PRESSURE DROP
PLBG	PLUMBING
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RD	ROOF DRAIN
REC	RECESSED
RED	REDUCER
REQD	REQUIRED
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
SF	SQUARE FOOT
SAN	SANITARY
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SLV	SLEEVE
SM	SURFACE MOUNT
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STRUCT	STRUCTURAL
SUCT	SUCTION
SUSP	SUSPENDED
TDR	TRENCH DRAIN
TEMP	TEMPERATURE
TYP	TYPICAL
UG	UNDERGROUND
VC	VACUUM
VEL	VELOCITY
VERT	VERTICAL
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEAN OUT
WH	WALL HYDRANT

PLUMBING SYMBOLS



CONTRACTORS ARE REQUIRED TO REVIEW AND COORDINATE BETWEEN THE ENGINEERING DRAWINGS AND FOOD SERVICE DRAWINGS. DISCREPANCIES DISCOVERED BETWEEN THESE ENGINEERING PLANS AND THE FOODSERVICE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IMMEDIATELY FOR RESOLUTION AND DIRECTION PRIOR TO PROCEEDING WITH WORK.

PLUMBING GENERAL NOTES

NO EXCLUSIONS FROM OR LIMITATIONS IN THE LANGUAGE USED IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS MEANING THAT THE EQUIPMENT, APPURTENANCES, AND/OR ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM ARE NOT TO BE PROVIDED AS REQUIRED. THE SEPARATE DIVISIONAL CONTRACT DOCUMENTS DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DIVISIONAL CONTRACT DOCUMENTS. REVIEW AND COORDINATE THE SCOPE OF WORK WITH ALL DOCUMENTS AND TRADES TO ASSURE A COMPLETE AND FUNCTIONAL SYSTEM IS BID AND INSTALLED.

REFER TO PLUMBING BOOK SPECIFICATIONS FOR MORE PROJECT REQUIREMENTS AND INFORMATION.

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED TO COMMENCE AND COMPLETE PLUMBING WORK.

SUBMIT FULL SUBMITTALS OF ALL PLUMBING EQUIPMENT AND MATERIALS TO THE ENGINEER FORE REVIEW WHETHER IT IS EXACTLY AS SPECIFIED OR NOT. WHERE ALTERNATE MANUFACTURERS ARE LISTED IN THE BOOK SPECIFICATIONS, ONE OF THOSE MANUFACTURERS SHALL BE PROVIDED UNLESS A REQUEST FOR SUBSTITUTION HAS BEEN SUBMITTED PRIOR TO BID AND THE MANUFACTURER SUBSEQUENTLY IS LISTED AS AN ACCEPTABLE MANUFACTURER IN AN ADDENDUM. FOR ALL EQUIPMENT WHICH HAS BEEN SCHEDULED DIRECTLY ON THE DESIGN DRAWINGS, PROVIDE WITHIN THE SUBMITTAL A PERFORMANCE SCHEDULE FOR THE PROPOSED EQUIPMENT IN THE SAME FORMAT AS INCLUDED ON THE DRAWINGS. FAILURE TO PROVIDE REQUIRED PERFORMANCE SCHEDULE WILL RESULT IN REJECTION OF THE ENTIRE SUBMITTAL.

BIND COMPLETE SUBMITTALS IN A THREE RING BINDER(S) WITH A TITLE SHEET AND IDENTIFICATION ON FRONT AND SIDE OF THE BINDER. CONTACT ENGINEER FOR PRIOR APPROVAL TO SUBMIT PDF EMAILED SUBMITTALS. SUBMIT ALL HVAC PRODUCTS SUBMITTALS ALL AT ONE TIME. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED FOR REVIEW AND APPROVAL. INDEX ALL ITEMS AS APPLICABLE. SUBMITTALS THAT DEVIATE FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL LIST ALL DIFFERENCES IN A COVER LETTER ATTACHED TO FRONT OF THE SUBMITTAL. ANY UNLISTED DEVIATIONS FOUND DURING REVIEW WILL RESULT IN THE REJECTION OF THE ENTIRE SUBMITTAL. FOR ITEMS REVIEWED AND MARKED "REVISE AND RESUBMIT" OR "REVISE AND RESUBMIT", ONLY ONE ADDITIONAL RE-SUBMITTAL WILL BE REVIEWED TO VERIFY PRODUCT COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOULD FURTHER SUBMITTALS BE REQUIRED BY THE ENGINEER TO VERIFY THE SUBMITTAL WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE HOURLY RATE OF $150.00 WILL BE BILLED TO THE CONTRACTOR FOR THE ENGINEER'S TIME SPENT ON THE REVIEW.

THE CONTRACT DOCUMENTS AND SUBMITTALS OF ALL TRADES SHALL BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION AND INSTALLATION OF ALL DEVICES AND EQUIPMENT. MAKE PARTICULAR NOTE OF LOCATIONS AND DIMENSIONS SHOWN ON THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.

PLUMBING DRAWINGS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE PLUMBING SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR IN COORDINATION WITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SUBMITTALS, AND SIMILAR CERTIFIED DATA.

ALL PLUMBING EQUIPMENT INSTALLED OUTDOORS SHALL BE SECURED TO ITS SUPPORT AS DETAILED BY THE STRUCTURAL ENGINEER FOR THE REQUIRED WIND LOAD DESIGN.

ALL EXPOSED MATERIALS SHALL BE CONSTRUCTED OF NON-FERROUS MATERIALS AND BE PAINTED WITH TWO COATS OF RUST INHIBITOR PAINT.

INSTALL AND TEST ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN ADEQUATE SERVICE SPACE AS REQUIRED. SERVICE SPACE SHALL BE CLEAR OF DUCTS, PIPES, CONDUITS, WALL STUDS, CEILING HANGERS, AND ANY OTHER CONSTRUCTION APPURTENANCE.

CONTRACTOR SHALL COORDINATE AND PROVIDE ALL CEILING/FLOOR/WALL ACCESS PANELS THAT MAY BE REQUIRED FOR THE INSTALLATION, INSPECTION, AND SERVICE OF PLUMBING EQUIPMENT WHETHER OR NOT IT IS SHOWN. ACCESS PANELS TO BE SELECTED BY THE ARCHITECT.

ALL PLUMBING EQUIPMENT SHALL BE LABELED WITH ENGRAVED, LAMINATED, PLASTIC SIGNS. SIGNS SHALL BE 1/8" THICK AND A MINIMUM OF 1-3/4" HIGH WITH 1" HIGH LETTERS. LENGTH OF THE SIGN SHALL BE THE SUM OF THE LETTERS/NUMBERS PLUS 3/4" ON EACH END. EXTERIOR SIGNS SHALL BE UV RATED, DESIGNATED AND MANUFACTURED TO BE EXPOSED TO THE ELEMENTS.

AT PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 40 HOURS OF TRAINING ON THE OPERATION AND MAINTENANCE OF THE PLUMBING EQUIPMENT.

CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON PARTS AND LABOR FROM THE DATE OF SUBSTANTIAL COMPLETION.

HANGERS, ANCHORS AND SUPPORTS SHALL SUPPORT THE PIPING AND THE CONTENTS OF THE PIPING. HANGERS AND STRAPPING MATERIALS SHALL BE OF APPROVED MATERIALS THAT WILL NOT PROMOTE GALVANIC ACTION. PROVIDE PIPE SADDLES BELOW INSULATED PIPES.

HANGERS AND ANCHORS SHALL BE ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.

RIGID SUPPORT SWAY BRACING SHALL BE PROVIDED AT CHANGES IN DIRECTION GREATER THAN 45° FOR PIPE SIZES 4" AND LARGER.

ANCHORAGE SHALL BE PROVIDED TO RESTRAIN DRAINAGE PIPING FROM AXIAL MOVEMENT. FOR PIPE SIZES GREATER THAN 4", RESTRAINTS SHALL BE PROVIDED FOR DRAIN PIPES AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING AND OTHER SUITABLE METHODS AS SPECIFIED BY THE COUPLING MANUFACTURER SHALL BE UTILIZED.

PROVIDE ALL OFFSETS AND FITTINGS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. MAKE CONNECTION TO SITE UTILITIES. COORDINATE WITH SITE UTILITY CONTRACTOR AS REQUIRED.

CONCEAL PIPING ABOVE CEILING, WITHIN WALL OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.

PROVIDE AN AIR GAP WHEN WASTE CONNECTION IS REQUIRED TO BE INDIRECT, SERVICING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.

ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREAS SHALL BE CHROME PLATED. IF PIPING IS NOT AVAILABLE CHROME PLATED, PIPING SHALL BE PAINTED WITH CHROME COLORED PAINT.

PROVIDE CLEANOUTS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE - PLUMBING. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE. WHEN OUTDOORS, PROVIDE CONCRETE ADJACENT TO CLEANOUT AS SHOWN ON THE DETAIL ON THE DRAWINGS.

COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL DEVICES. PROVIDE INSULATED DRAIN PAN UNDER PIPING WHERE ABSOLUTELY NOT POSSIBLE TO AVOID.

ALL WALL MOUNTED LAVATORIES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIERS DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF FIXTURE. ALL WALL HUNG WATER CLOSET BOWLS SHALL BE SUPPORTED BY A CONCEALED METAL CARRIER THAT IS ATTACHED TO THE BUILDING STRUCTURAL MEMBERS. THE CARRIER SHALL CONFORM TO ASME A112.6.1M OR ASME 112.6.2.A. WALL HUNG WATER CLOSET MUST BE CAPABLE OF SUPPORTING A LOAD OF 500 POUNDS AT THE END OF THE WATER CLOSET. ALL WALL HUNG URINALS SHALL BE SUPPORTED BY A CONCEALED METAL CARRIER THAT TRANSFERS THE WEIGHT OF THE URINAL TO THE FLOOR.

PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY TO USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.

SECURE THE BASE OF ALL WATER COOLERS TO THE WALL. CAULK ALONG TOP OF WATER COOLER TO WALL.

FOLLOW ADA GUIDELINES FOR ACCESSIBILITY TO PLACES OF PUBLIC ACCOMMODATION AND COMMERCIAL FACILITIES BY INDIVIDUALS WITH DISABILITIES. THESE GUIDELINES ARE TO BE APPLIED DURING DESIGN, CONSTRUCTION AND ALTERATION OF SUCH BUILDING AND FACILITIES TO THE EXTENT REQUIRED BY REGULATIONS ISSUED BY FEDERAL AGENCIES, INCLUDING THE DEPARTMENT OF JUSTICE, UNDER THE AMERICANS WITH DISABILITIES ACT (ADA), LATEST EDITION.

THE LOCATIONS OF ALL CLEANOUTS, VALVES, GAUGES, ETC. SHALL BE LOCATED FOR ACCESS AND/OR SERVICE IN REFERENCE TO THE FINISHED BUILDING. WALL CLEANOUT SHALL BE 18" A.F.F. AND FLOOR CLEANOUTS SHALL BE LOCATED WITHIN 12" OF AN ADJACENT WALL.

WHERE PLUMBING SERVICES ARE REQUIRED FOR EQUIPMENT FURNISHED UNDER OTHER TRADES OR PROVIDED BY THE OWNER (OFCI), THE CONTRACTOR SHALL DETERMINE ACCURATE ROUGHING REQUIREMENTS IN ADVANCE OF WORK, SET EQUIPMENT IN PLACE AND MAKE NECESSARY SERVICE CONNECTIONS. PROVIDE ACCESSORIES AS REQUIRED.

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND ROUGHING DIMENSIONS OF ALL PLUMBING FIXTURES, DRAINS, ETC.

ALL FLOOR DRAINS SHALL BE SERVED BY AN APPROVED TRAP PRIMER VALVE & DISTRIBUTION SYSTEM.

PROVIDE 1/2" TYPE K SOFT COPPER SUPPLY LINE FROM TRAP PRIMER TO FLOOR DRAIN. PROVIDE CORROSION PROTECTION WHERE UNDERGROUND.

ALL HOSE BIBBS, WALL HYDRANTS AND HOSE END CONNECTIONS SHALL BE EQUIPPED WITH AN APPROVED INTEGRAL VACUUM BREAKER AND SHUT OFF VALVE LOCATED ABOVE THE CEILING. UNLESS OTHERWISE NOTED, ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE INSTALLED 24" ABOVE FINISHED FLOOR OR GRADE.

DIELECTRIC UNIONS SHALL BE INSTALLED AT ALL CONNECTIONS OF DISSIMILAR METALS (SUCH AS COPPER TO GALVANIZED STEEL).

ALL VENT PENETRATIONS THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKES, DOORS, WINDOWS AND OTHER BUILDING OPENINGS. WHERE POSSIBLE, EXTEND VENT PIPE TO THE BACK SIDE OF BUILDINGS WITH SLOPED ROOFS.

PROVIDE VALVES WHERE INDICATED ON PLAN AND NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. PROVIDE VALVES RATED FOR 125 PSI OR GREATER WORKING PRESSURE IN WATER PIPING. BALL VALVES: NIBCO S-585-70; GATE VALVES: NIBCO S-113; CHECK VALVES: NIBCO S-413; DRAIN VALVES: NIBCO S-585-70-HC; BALANCING VALVES: NIBCO S-1710.

VERIFY SIZES, LOCATION, INVERTS AND ELEVATIONS PRIOR TO INSTALLING ANY PIPING.

COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND FURNISH EQUIPMENT WIRED FOR THE VOLTAGE SHOWN HEREIN. PROVIDE STATEMENT INDICATING THIS HAS OCCURRED WITH THE SHOP DRAWING SUBMITTALS.

SLOPE ALL STORM AND SANITARY PIPING 8" AND LARGER AT A MINIMUM SLOPE OF 1/16" PER FOOT. SLOPE ALL SANITARY PIPING 3" TO 6" AT A MINIMUM SLOPE OF 1/8" PER FOOT. ALL SANITARY PIPING 2-1/2" AND SMALLER SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT.

ALL EXPOSED PIPING UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED WITH PROTECTIVE UNDER-SINK PIPE COVERS AND PLUMBING ENCLOSURES AS MANUFACTURED BY TRUEBRO.

ALL SANITARY, VENT AND WATER PIPING SHALL BE TESTED BEFORE BEING CONCEALED IN ANY WAY. ALL JOINTS SHALL BE MADE DRIP TIGHT BEFORE BEING CONCEALED. DOMESTIC WATER PIPING SHALL BE TESTED AT 1-1/2 TIMES OPERATING PRESSURE OR 100 PSI, WHICHEVER IS GREATER.

DISINFECT POTABLE WATER SYSTEM PER THE FLORIDA BUILDING CODE. PROVIDE DOCUMENTATION IN THE CLOSE OUT DOCUMENTS.

COLD WATER, HOT WATER, HOT WATER RETURN, AND SOFT WATER PIPING SHALL BE SEAMLESS TYPE "L" COPPER TUBE (UNDERGROUND TO BE TYPE K) AND SHALL CONFORM TO NSF 61 AND ASTM B 75, ASTM B 88, ASTM B 251 OR ASTM B 447. FITTINGS SHALL BE COPPER OR COPPER ALLOY AND SHALL CONFORM TO NSF 61 AND ASME B16.15, ASME B16.18, ASME B16.22, ASME B16.23, ASME B16.26 OR ASME B16.29. SOLDERED JOINTS SHALL BE MADE IN ACCORDANCE WITH THE METHODS OF ASTM B828. THE JOINING OF WATER SUPPLY SHALL BE 95/5 LEAD FREE SOLDER AND THE SOLDER SHALL CONFORM TO ASTM B 32.

SANITARY, VENT, AND STORM WATER PIPING SHALL BE PVC TYPE DWV AND SHALL CONFORM TO ONE OF THE FOLLOWING STANDARDS: ASTM D 2665, ASTM D 2949 OR CSA B181.2. FITTINGS SHALL BE PVC AND SHALL CONFORM TO ONE OF THE FOLLOWING STANDARDS: ASTM D 2665, ASTM D 3311 OR ASTM F 1866. JOINTS SHALL BE SOLVENT CEMENTING. A PURPLE PRIMER THAT CONFORMS TO ASTM F 656 SHALL BE APPLIED TO JOINT SURFACES (CLEAN AND FREE FROM MOISTURE). SOLVENT CEMENT NOT PURPLE IN COLOR AND CONFORMING TO ASTM D 2564, CSA B137.3, CSA B181.2 OR CSA B162.1 SHALL BE APPLIED TO ALL JOINT SURFACES. JOINTS SHALL BE IN ACCORDANCE WITH ASTM D 2855.

INSULATE ALL DOMESTIC COLD, HOT, HOT RETURN, AND SOFT WATER PIPING WITH 1" THICK ARMAFLEX AND 25/50 FIRE/SMOKE RATING.

INSULATE ALL STORM WATER PIPING WITH 1" THICK FIBERGLASS WITH "ASJ" VAPOR BARRIER JACKET AND 25/50 FIRE/SMOKE RATING.

INSULATE ALL STORM WATER PIPING WITH 1" THICK FIBERGLASS WITH "ASJ" VAPOR BARRIER JACKET AND 25/50 FIRE/SMOKE RATING.

GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDINGS CODE 6TH EDITION (2017) - GAS CODE, OR NFPA-54 WHERE REQUIREMENTS ARE MORE STRINGENT. ALL GAS EQUIPMENT SHALL BE AGA APPROVED. THE INSTALLATION SHALL BE FOR NATURAL GAS. THE INSTALLING SUBCONTRACTOR SHALL BE LICENSED FOR THE INSTALLATION OF NATURAL GAS.

GAS PIPING SHALL BE SCHEDULE 40, WROUGHT STEEL PIPE, WELDED AND SEAMLESS (ASME B36.10), WITH THREADED CONNECTIONS. GAS PIPING OUTSIDE OF THE BUILDING SHALL BE PAINTED WITH BLACK "RUSTOLEUM" PAINT. GAS PIPING SHALL BE HUNG TIGHT TO THE ROOF STRUCTURE, AS ON THE PLAN, AND SUPPORTED WITH HANGERS BY GRINNELL OR EQUAL. BRANCH TAPS SHALL BE MADE OFF OF THE TOP OF THE PIPING. CONNECTION AT EACH GAS APPLIANCE SHALL INCLUDE; AN INVERTED TRAP, A GAS COCK, A UNION, AND A DIRT LEG.

PLUMBING CODE CRITERIA

THE FOLLOWING IS A LIST OF ALL CODES ADOPTED DECEMBER 31, 2017 BY THE STATE FIRE MARSHALL'S RULE 69A3.012 F.A.C.:

- FLORIDA BUILDING CODE 6TH EDITION (2017) - ALL SECTIONS
- FLORIDA ENERGY EFFICIENCY CODE (FBC 2017), FLORIDA ENERGY CODE SOFTWARE: ENERGYGAUGE SUMMIT VERSION 6.0
- FLORIDA FIRE PREVENTION CODE 6TH EDITION (2017)

69A-3.012 STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION ADOPTED.
(1) EXCEPT AS SPECIFICALLY MODIFIED BY STATUTE OR BY THE STATE FIRE MARSHAL'S RULES, THE "FLORIDA FIRE PREVENTION CODE, 6TH EDITION (2017)," WHICH IS COMPRISED OF THE FLORIDA SPECIFIC EDITION OF NFPA 101, THE LIFE SAFETY CODE (2015 EDITION) AND THE FLORIDA SPECIFIC EDITION OF NFPA 1, THE FIRE CODE (2012 EDITION), ARE HEREBY ADOPTED AND INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THOSE BUILDINGS AND STRUCTURES SPECIFIED IN PARAGRAPHS (A) AND (B) OF SUBSECTION (1) OF SECTION 633.206, F.S. IN ADDITION, THE FOLLOWING STANDARDS, EXCEPT AS SPECIFICALLY MODIFIED IN THE RULE CHAPTERS IN RULE TITLE 69A, ARE HEREBY ADOPTED AND INCORPORATED BY REFERENCE AND SHALL TAKE EFFECT ON THE EFFECTIVE DATE OF THIS RULE, AS A PART OF THE UNIFORM FIRE SAFETY STANDARDS ADOPTED BY RULE BY THE STATE FIRE MARSHAL AND ARE APPLICABLE TO THOSE BUILDINGS AND STRUCTURES SPECIFIED IN PARAGRAPHS (A) AND (B) OF SUBSECTION (1) OF SECTION 633.206, F.S.:

- NFPA 13, 2013 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- NFPA 70, 2014 EDITION, NATIONAL ELECTRIC CODE
- NFPA 72, 2013 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE

OTHER:

- LOCAL CODES AND ORDINANCES

NOTE: TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THESE PLUMBING DESIGN DRAWINGS COMPLY WITH THE ABOVE CODE CRITERIA. WHEN TWO OR MORE CODES OR STANDARDS ARE IN CONFLICT, THE MORE STRINGENT SHALL APPLY.

Sheet List - Plumbing

Sheet Number	Sheet Name
P000	PLUMBING LEGENDS AND NOTES
P101	LEVEL 1 UNDERGROUND PLUMBING PLAN
P102	LEVEL 1 ABOVE GROUND PLUMBING PLAN
P103	ROOF PLUMBING PLAN
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P901	PLUMBING RISER DIAGRAMS
P902	PLUMBING RISER DIAGRAMS

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MICHAEL A. COSTELLO
PE0081436

MECHANICAL SEAL 9/16/2019 12:13:10 PM

ISSUE	BY	DATE	DESCRIPTION
1			

PROJECT INFORMATION BLOCK

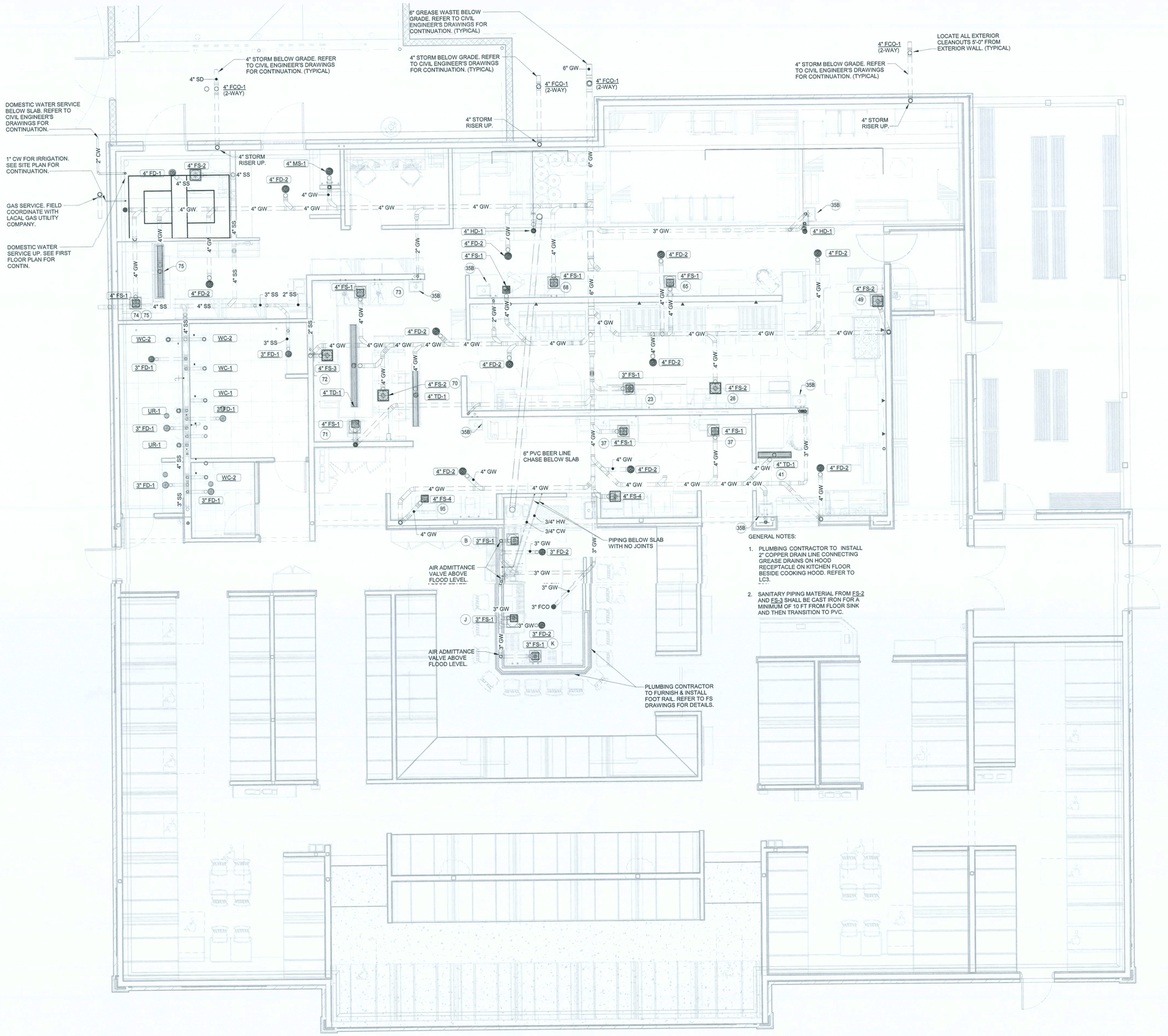
JOB #	188014
DATE:	09/19/2019
DRAWN BY:	SC
CHECKED BY:	MC

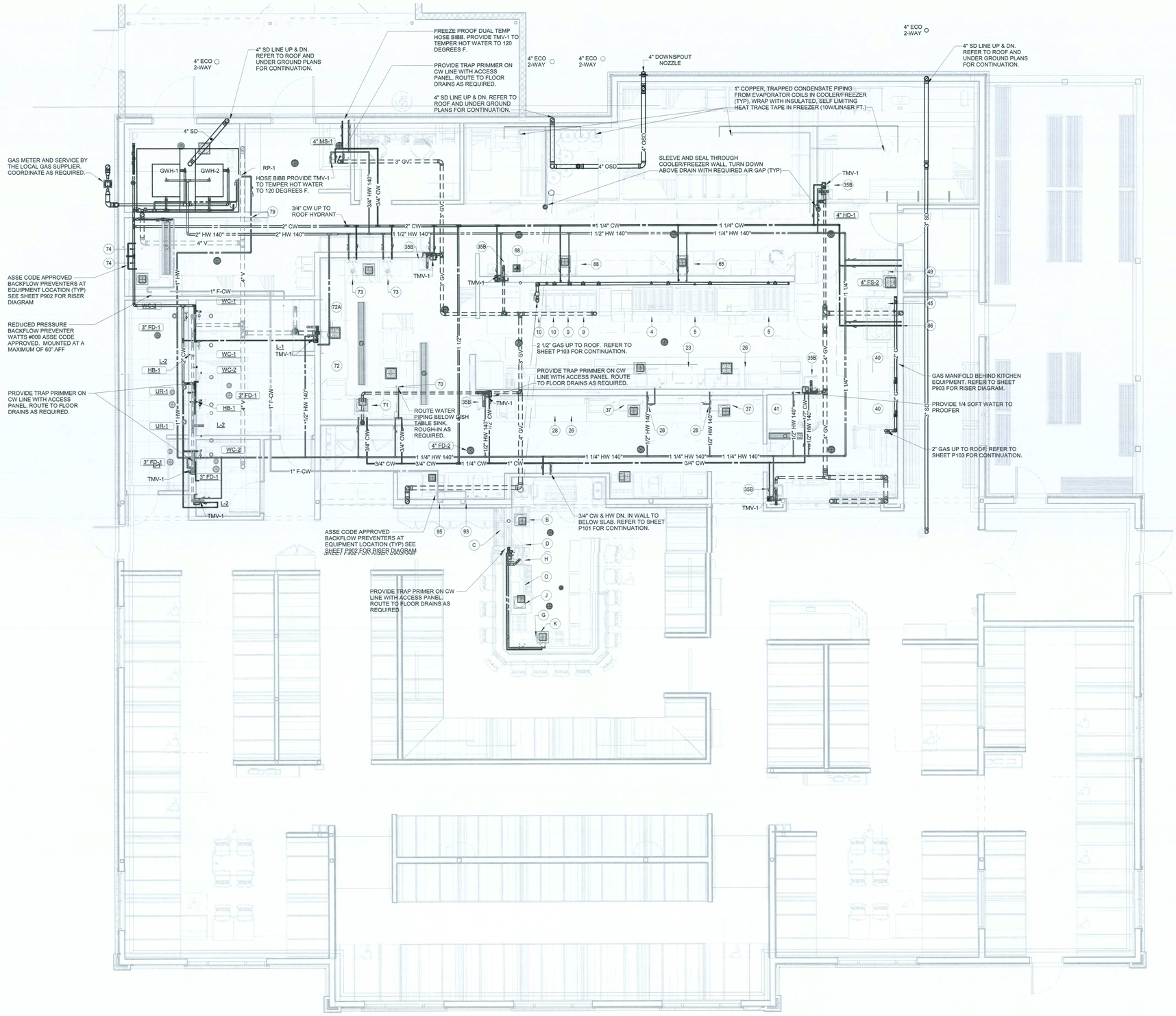
SHEET TITLE

PLUMBING LEGENDS AND NOTES

SHEET NUMBER

P000


6" GREASE WASTE BELOW GRADE. REFER TO CIVIL ENGINEER'S DRAWINGS FOR CONTINUATION. (TYPICAL)
4" STORM BELOW GRADE. REFER TO CIVIL ENGINEER'S DRAWINGS FOR CONTINUATION. (TYPICAL)
4" SD
4" FCO-1 (2-WAY)
4" STORM BELOW GRADE. REFER TO CIVIL ENGINEER'S DRAWINGS FOR CONTINUATION. (TYPICAL)
6" GW
4" FCO-1 (2-WAY)
4" FCO-1 (2-WAY)
LOCATE ALL EXTERIOR CLEANOUTS 5'-0" FROM EXTERIOR WALL. (TYPICAL)
4" STORM BELOW GRADE. REFER TO CIVIL ENGINEER'S DRAWINGS FOR CONTINUATION. (TYPICAL)
4" STORM RISER UP.
4" STORM RISER UP.
DOMESTIC WATER SERVICE BELOW SLAB. REFER TO CIVIL ENGINEER'S DRAWINGS FOR CONTINUATION.
1" CW FOR IRRIGATION. SEE SITE PLAN FOR CONTINUATION.
GAS SERVICE. FIELD COORDINATE WITH LACAL GAS UTILITY COMPANY.
DOMESTIC WATER SERVICE UP. SEE FIRST FLOOR PLAN FOR CONTIN.
2" CW
4" STORM RISER UP.
4" FD-1
4" FS-2
4" SS
4" MS-1
4" FD-2
4" GW
4" GW
4" GW
4" GW
4" GW
4" GW
4" SS
4" GW
4" GW
4" GW
4" GW
4" GW
4" GW



1 / P102 LEVEL 1 ABOVE GROUND PLUMBING PLAN
1/4" = 1'-0"
0 4' 8' 16'

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MICHAEL A. COSTELLO
PE0081436

MICHAEL A. COSTELLO LICENSE NO. 81436 STATE OF FLORIDA PROFESSIONAL ENGINEER
9/16/19

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ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

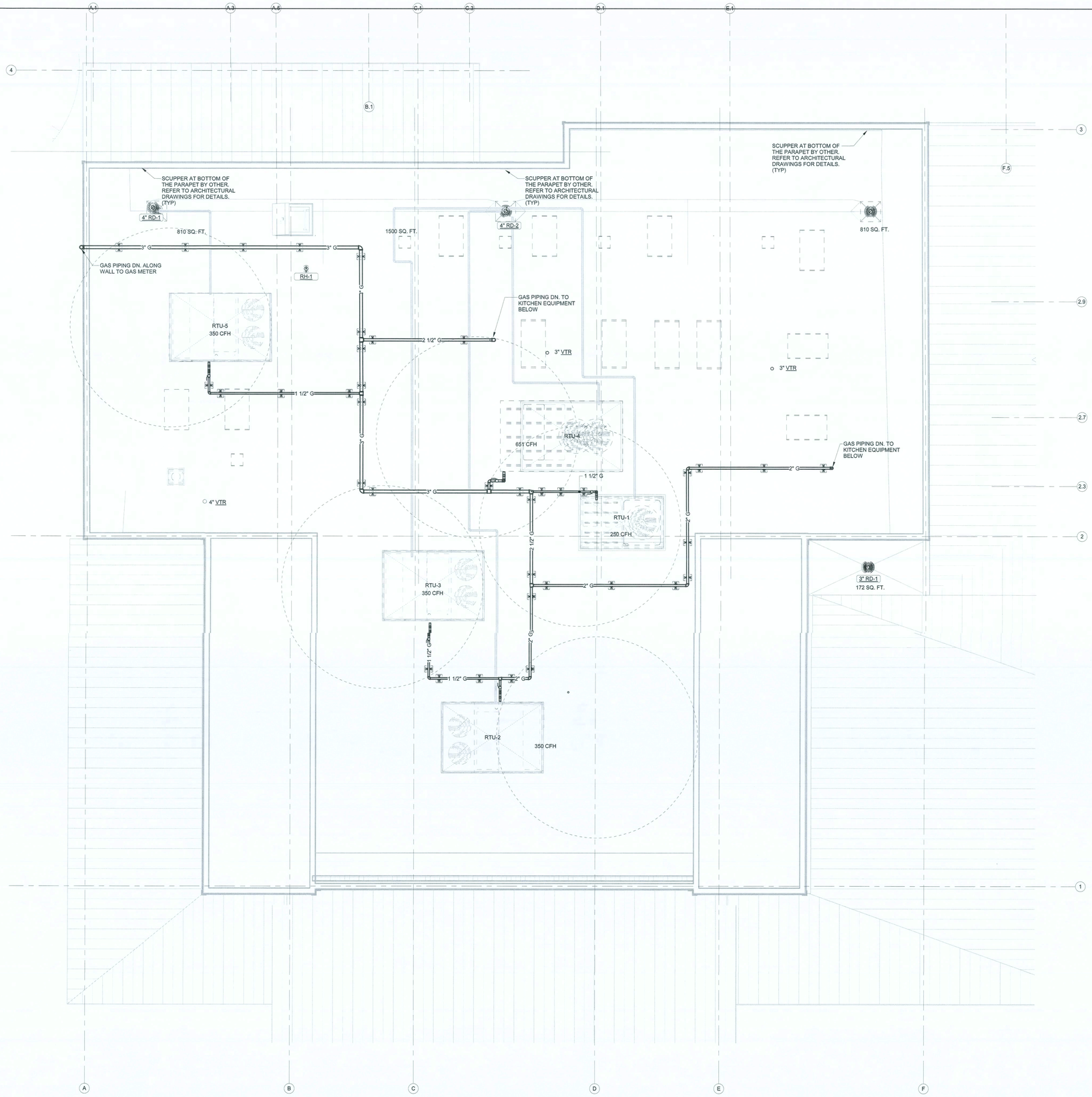
JOB #	188014
DATE:	09/19/2019
DRAWN BY:	SC
CHECKED BY:	MC

SHEET TITLE

LEVEL 1 ABOVE GROUND PLUMBING PLAN

SHEET NUMBER

P102



1 P103 ROOF PLUMBING PLAN
1/4" = 1'-0"
0 4' 8' 16'

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MICHAEL A. COSTELLO
PE0081436

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PROJECT INFORMATION BLOCK

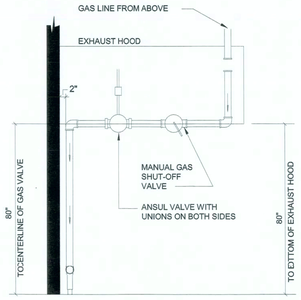
JOB #	188014
DATE:	09/19/2019
DRAWN BY:	SC
CHECKED BY:	MC

SHEET TITLE

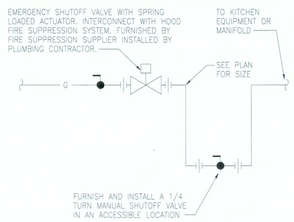
ROOF PLUMBING PLAN

SHEET NUMBER

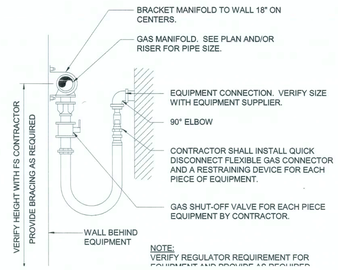
P103



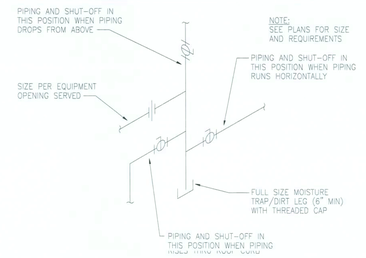
HOOD GAS PIPING DETAIL
SCALE: NONE



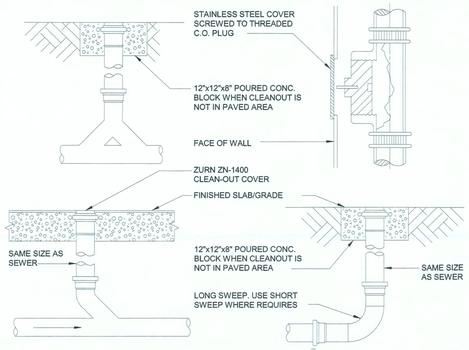
GAS SHUT-OFF VALVE DETAIL
SCALE: NONE



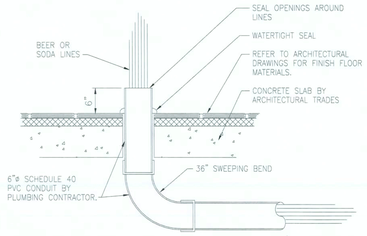
TYPICAL KITCHEN EQUIPMENT GAS CONNECTION DETAIL
SCALE: NONE



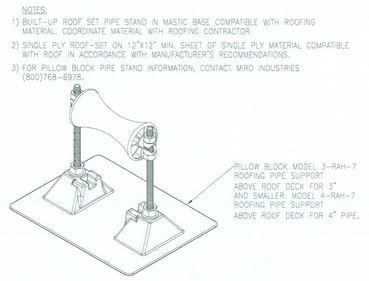
GAS MOISTURE TRAP DETAIL
SCALE: NONE



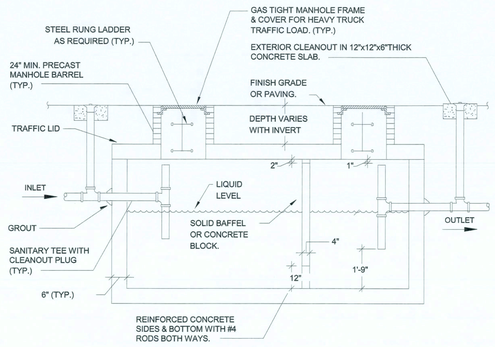
CLEANOUT DETAILS
SCALE: NONE



BEER AND SODA CONDUIT DETAIL
SCALE: NONE

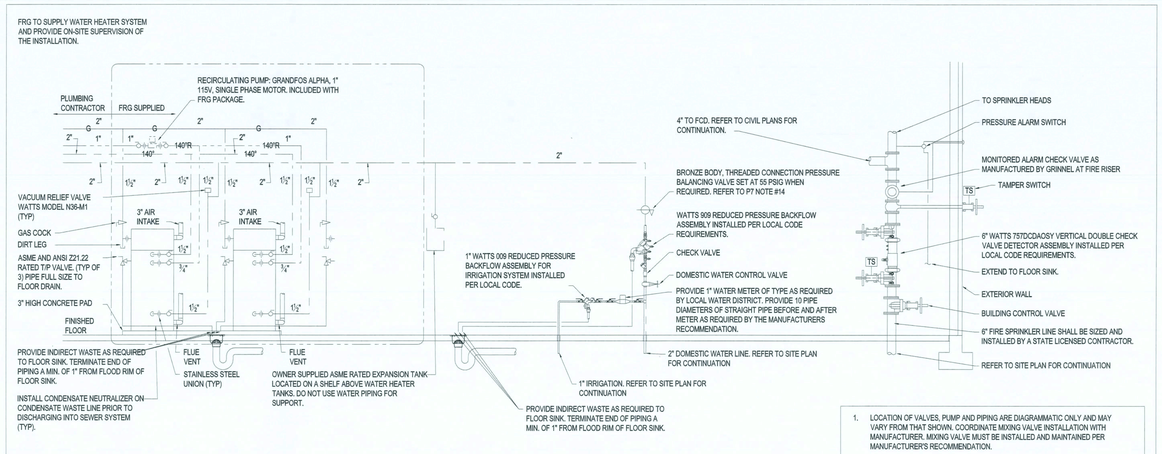


ROOFTOP GAS PIPING SUPPORT DETAIL
SCALE: NONE



NOTE:
1. STRUCTURE SHALL BE IN ACCORDANCE WITH TENNESSEE TDOT DESIGN STANDARDS. PROVIDE FOR MINIMUM H-20 LOADING.
2. LIDS SHALL BE LABELED "GREASE".
3. GREASE TRAP SHALL BE TWO COMPARTMENT TYPE.
4. PROVIDE CORNER BARS AT ALL CORNER WALL INTERSECTIONS.
5. F'c = 4000 PSI MINIMUM
6. CONTRACTOR SHALL PROVIDE ONE 3,000 GALLON INTERCEPTOR.

3,000 GALLON GREASE INTERCEPTOR DETAIL
SCALE: NONE



1. LOCATION OF VALVES, PUMP AND PIPING ARE DIAGRAMMATIC ONLY AND MAY VARY FROM THAT SHOWN. COORDINATE MIXING VALVE INSTALLATION WITH MANUFACTURER. MIXING VALVE MUST BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION.
2. VALVES AND DEVICES SHALL BE UL LISTED AND APPROVED.
3. SEE CIVIL FOR FDC LOCATION.

MECHANICAL ROOM SERVICE ENTRANCE AND WATER HEATER PIPING SCHEMATIC
SCALE: NONE

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MICHAEL A. COSTELLO
PE0061436

MECHANICAL SEAL 9/16/2019 12:13:30 PM

ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	188014
DATE:	09/19/2019
DRAWN BY:	SC
CHECKED BY:	MC

SHEET TITLE

PLUMBING DETAILS

SHEET NUMBER

P501

FOOD SERVICE PLUMBING CONNECTION SCHEDULE

EQUIPMENT SPECIFIED IN THIS SCHEDULE IS SUBJECT TO CHANGE VERIFY ALL UTILITY CONNECTIONS WITH EQUIPMENT SUPPLIER AND CONFIRM COMPLIANCE WITH LOCAL BUILDING CODES PRIOR TO DOING ROUGH-INS

ITEM #	DESCRIPTION	GAS		WATER		DRAIN	COMMENT
		SIZE	LOAD	CW	HW		
1A	WAL-IN FREEZER					FD	
1B	WALK-IN BEER COOLER					FD	
1C	WALK-IN PRODUCTION COOLER					FD	
1D	WALK-IN MEAT COOLER					FD	
4	CHAR BROILER	3/4"	102,000				
5	CHAR BROILER	3/4"	136,000				
9	14" DEP FRYER W/CASTERS	3/4"	110,000				
10	18" DEP FRYER W/CASTERS	3/4"	140,000				
23	TRIPLE HOT WELLS W/DRAIN					FS	INDIRECT CONNECTION TO FLOOR SINK - COPPER PIPING ONLY!! DRAIN LINE AND BALLL VALVE BY PLUMBING CONTRACTOR CORD BY ELECTRICIAN.
24	STEAM TABLE COUNTER W/FAUCET				1/2"	1-1/2" OD	EXTEND TO FLOOR SINK - COPPER PIPING ONLY!!!
26	COLD WELL (DROP-IN)					FS	PLUMBER TO PROVIDE DRAIN LINE FOR INDIRECT CONNECTION TO FLOOR DRAIN - COPPER PIPING ONLY!!!
27	HOT WELL W/DRAIN					FS	INDIRECT CONNECTION TO FLOOR SINK - COPPER PIPING ONLY!! DRAIN LINE AND BALLL VALVE BY PLUMBING CONTRACTOR CORD BY ELECTRICIAN.
28	DIPPER WELL				1/2"	FS	PLUMBER TO PROVIDE INDIRECT CONNECTION TO FLOOR SINK
35	HAND SINK			1/2"	1/2"	1-1/2" IPS	TUBULAR SUPPORTS IN ALL LOCATIONS INCLUDES SIDE SPLASHES FOR BATH SIDES-ALL LOCATIONS
35A	EYEWASH ATTACHMENT			1/2"	1/2"		ATTACH TO HAND SINK FAUCET
35B	HAND SINK W/KNEE PEDAL			1/2"	1/2"	1-1/2" IPS	TUBULAR SUPPORTS IN ALL LOCATIONS INCLUDES SIDE SPLASHES FOR BATH SIDES-ALL LOCATIONS
35C	HAND SINKS			1/2"	1/2"	1-1/2" IPS	INCLUDES SIDE SPLASHES FOR BATH SIDES-ALL LOCATIONS
37	HOT WELL SINGLE W/DRAIN						CORD BY ELECTRICIAN DRAIN LINE & BALL VALVE BY PLUMBER - COPPER PIPING ONLY!!!
40	CONVECTION OVENS (DOUBLE STACKED)	3/4"	50,000 X2			TD	
41	PROOFING CABINET						FILTER FURNISHED W/UNIT, INSTALLED BY PC (FLUIA+SH WATER LINE PRIOR TO CONNECTION)
45	4 BURNER RANGE	3/4"	120,000				
45A	8 BURNER RANGE	3/4"	240,000				
51	EXHAUST HOOD (COOKLINE)					FD	INDIRECT CONNECTION TO FLOOR SINK - COPPER PIPING ONLY!! SEE HOOD DRAWINGS FOR DETAILS
65	2 COMPARTMENT PREP SINKW/DRAIN BOARD			1/2"	1/2"	1-1/2" OD	PLUMBER TO SUPPLY & INSTALL STAND OFF SUPPORT FOR DRAIN LINES
68	3 COMPARTMENT PREP SINKW/DRAIN BOARD			1/2"	1/2"	1-1/2" OD	PLUMBER TO SUPPLY & INSTALL STAND OFF SUPPORT FOR DRAIN LINES
70	DIRTY DISH TABLE			1/2"	1/2"	FS	PLUMBER TO SUPPLY & INSTALL STAND OFF SUPPORT FOR DRAIN LINES
72	DISH MACHINE				3/4"	FS	BACK SIPHON PROTECTION ON WATER LINE
72A	BOOSTER HEATER			1/2"	1/2"	FS	PLUMBER TO PROVIDE 3/4" COPPER ROUGH-IN CONNECTION ON BOOSTER HEATER, ISOLATION VALVES & 3/4" FEED TO DISH MACHINE INLET.
73	CLEAN DISH TABLE/ 3 COMPARTMENT SINK			1/2"	1/2"	FS	PLUMBER TO SUPPLY & INSTALL STAND OFF SUPPORT FOR DRAIN LINES
74	ICE MACHINES			1/2"		OD	PLUMBER TO RUN DRAIN LINE. REMOTE CONDENSER REQUIREMENTS SEPARATE
75	ICE BIN					FS TROUGH DRAIN	
78	CARBONATOR			1/2"			1/2" CW FROM FILTER.
79	WATER FILTRATION SYSTEM			3/4"			
86	POT FILLER			1/2"	1/2"		
93	ICED TEA BREWERS			1/2"			FOR ALL DRINK EQUIPMENT
95	SODA DISPENSERS			1/2"		FS	1/2" CW FILTERED. PLUMBER TO PROVIDE BACK FLOW PREVENTORS
97	COFFEE MAKERS			1/2"			
114	5/5 FLOOR TROUGH 98"X8" GRATE					4" OD	PLUMBER TO FURNISHED & INSTALL
115	5/5 FLOOR TROUGH 72"X8" GRATE					4" OD	PLUMBER TO FURNISHED & INSTALL
116	5/5 FLOOR TROUGH 36"X4" GRATE					4" OD	PLUMBER TO FURNISHED & INSTALL
117	5/5 FLOOR TROUGH 60"X8" GRATE					4" OD	PLUMBER TO FURNISHED & INSTALL
						1" IPS	USE COPPER LINES ONLY!!! FURNISHED & INSTALLED BY PLUMBER ATTACH TO ADJACENT UNIT (ONE SET OF LEGS)
						1/2" IPS	USE COPPER LINES ONLY!!! FURNISHED & INSTALLED BY PLUMBER. SPEED RAIL CONTINUOUS BETWEEN ICE BIN & DRAIN BOARD
						1/2" IPS	USE COPPER LINES ONLY!!! FURNISHED & INSTALLED BY PLUMBER.
						1" IPS	USE COPPER LINES ONLY!!! FURNISHED & INSTALLED BY PLUMBER ATTACH TO ADJACENT UNIT (ONE SET OF LEGS)
H	BAR HAND SINK W/SIDE SPLASHES			1/2"	1/2"	1-1/2" IPS	FAUCET INCLUDED
K	DUMP SINK W/BOARD DRAINS			1/2"	1/2"	1-1/2" IPS TO FS	USE COPPER LINES ONLY!!! FURNISHED & INSTALLED BY PLUMBER.
X	GLASS WASHER				1/2" 140 F	1" IPS	USE COPPER LINES ONLY!!! FURNISHED & INSTALLED BY PLUMBER.

NOTE:
PLUMBING CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS TO MAKE FINAL CONNECTIONS BETWEEN EQUIPMENT TO WATER LINES AND DRAINS. STAND-OFF SUPPORTS MUST BE INSTALLED ON ALL INDIRECT CONNECTION DRAIN LINES.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	WASTE	VENT	CW	HW	MANUFACTURER/MODEL		REMARKS
WC-1	WATER CLOSET LOW CONPSUMPTION	3"	2"	1/2"	-	AMERICAN STANDARD #2234.015 CHURCH #255 SLOAN #G2 8111	RIM 14.5"	VITREOUS CHINA, FLOOR MOUNTED FLUSH VALVE WATER CLOSET, SIPHON-JET ACTION ELONGATED BOWL, 1-1/2" TOP INLET SPUD AND 2" WIDE TRAPWAY SOLID PLASTIC TOILET SEAT, ELONGATED OPEN FRONT LESS COVER. EXPOSED QUIET DIAPHRAM-TYPE, 1.6GPF, FLUSH VALVE WITH 1-1/2" SPUD CONNECTION, HIGH BACK PRESSURE VACUUM BREAKER IN CHROME FINISH. ADA COMPLIANT. PROVIDE BOLTS, CAPS, SUPPLY TUBE & ANGLE STOP VALVE.
WC-2	WATER CLOSET LOW CONPSUMPTION ADA	3"	2"	1/2"	-	AMERICAN STANDARD #3461.001 CHURCH #255 SLOAN G2 #8111	RIM 17"	VITREOUS CHINA, FLOOR MOUNTED FLUSH VALVE WATER CLOSET, SIPHON-JET ACTION ELONGATED BOWL, 1-1/2" TOP INLET SPUD AND 2" WIDE TRAPWAY SOLID PLASTIC TOILET SEAT, ELONGATED OPEN FRONT LESS COVER. EXPOSED QUIET DIAPHRAM-TYPE, 1.6GPF, FLUSH VALVE WITH 1-1/2" SPUD CONNECTION, HIGH BACK PRESSURE VACUUM BREAKER IN CHROME FINISH. ADA COMPLIANT. PROVIDE BOLTS, CAPS, SUPPLY TUBE & ANGLE STOP VALVE.
U-1	URINAL	2"	1-1/2"	3/4"	-	AMERICAN STANDARD #6400.014 SLOAN #18601 SFSM	RIM 17"	VITREOUS CHINA STALL URINAL WITH SIPHON JET FLUSH ACTION AND 3/4" TOP SPUD. SENSOR OPERATED BATTERY FLUSH VALVE WITH 3/4" URINAL SPUD CONNECTION, 1.0 GPF, BATTERY POWERED, LOW CONSUMPTION.
L-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	TROUGH SINK BY OTHERS - SEE ARCHITECTURAL DRAWINGS FOR DETAILS MIDEN B215F05	RIM 34"	CUSTOM CORIAN SURFACE TROUGH SINK. PLUMBING CONTRACTOR SHALL PROVIDE & INSTALL GRID STRAINER DRAIN AND FAUCETS. DUAL LEVER LAVATORY FAUCET WITH GRID STRAINER DRAIN CHROME FINISH, VANDAL PROOF AERATOR. PROVIDE P-TRAP, SUPPLY TUBES AND ANGLE STOP VALVES PROVIDE P-TRAP, SUPPLY TUBES AND ANGLE STOP VALVES.
L-2	LAVATORY ADA	1-1/2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD [illegible] AMERICAN STANDARD #5502.170.002 TRUEBRO #102	RIM 34"	VITREOUS CHINA WALL MOUNT LAVATORY W/ 4" CENTERSET FAUCET HOLES & [illegible] DUAL LEVER LAVATORY FAUCET WITH GRID STRAINER DRAIN CHROME FINISH, VANDAL PROOF AERATOR INSULATION KIT. PROVIDE P-TRAP, SUPPLY TUBES AND ANGLE STOP VALVES.
MS-1	MOP SINK	3"	1-1/2"	1/2"	1/2"	ZURN #ZB-415-BSH-Y CHICAGO #897-CP	FLOOR	CAST IRON BODY FLOOR DRAIN WITH INVERTIBLE MEMBRANE CLAMP, HINGED POLISHED BRONZE TOP, AND SEDIMENT BUCKET. WALL MOUNTED, DUAL LEVER FAUCET WITH TOP BRACE, VACUUM BREAKER AND HOSE THREADED OUTLET IN CHROME FINISH. PROVIDE MOP HANGER BRACKET. PROVIDE P-TRAP.
WH-1	WALL HYDRANT	-	-	1/2"	1/2"	WOODFORD #HC67		HOT & COLD WALL FAUCET, FREEZELESS, WITH HOSE CONNECTION ANTI-SIPHON VACUUM BREAKER, TEE KEY.
WH-2	WALL HYDRANT	-	-	3/4"		WOODFORD #65	30"	BACKFLOW PROTECTED FREEZELESS WALL HYDRANT, AUTO-MATIC DRAINING, WITH HOSE CONNECTION ANTI-SIPHON VACUUM BREAKERS.
RH-1	ROOF HYDRANT	-	-	3/4"		FREEZE FLOW #2131R	ROOF	DRAINLESS ROOF DRAIN WITH 1011 BACKFLOW PREVENTER, REMOVABLE WAGON WHEEL WITH LOCK SHIELD, PAIL HOOK, AND HOSE TREAD OUTLET.
FD-1	FLOOR DRAIN RESTROOMS/UTILITY	SIZE/ DWG.	SIZE/ DWG.	-	-	ZURN ZLC #FD-2280-PB-R6-P	FLOOR	PVC BODY FLOOR DRAIN WITH SCHD 40 HUB CONNECTION, ADJUSTABLE 6" ROUND POLISHED BRASS STRAINER AND TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN KITCHEN	SIZE/ DWG.	SIZE/ DWG.	-	-	ZURN ZLC #FD-2280-PB-R6-P	FLOOR	PVC BODY FLOOR DRAIN WITH SCHD 40 HUB CONNECTION, ADJUSTABLE 6" ROUND POLISHED BRASS STRAINER AND TRAP PRIMER CONNECTION.
HD-1	HUB DRAIN FUNNEL	SIZE/ DWG.	SIZE/ DWG.	-	-	ZURN ZLC #FD-2280-R6-P/ZB-328-4	FLOOR	PVC BODY FLOOR DRAIN WITH SCHD 40 HUB CONNECTION, ADJUSTABLE 6" ROUND POLISHED BRASS FUNNEL STRAINER AND TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK GENERAL	SIZE/ DWG.	SIZE/ DWG.	-	-	ZURN ZLC #FD-2370 T OR H	FLOOR	PVC BODY 14" FLOOR SINK WITH SCHD 40 HUB CONNECTION, 12" ROUND TOP BRASS GRATE, SECONDARY STRAINER, AND TRAP PRIMER CONNECTION. SEE FS PLANS FOR GRATE OPTIONS.
FS-2	FLOOR SINK	SIZE/ DWG.	SIZE/ DWG.	-	-	ZURN #ZN-1901	FLOOR	12" SQUARE TOP 8" DEEP DEEP CAST IRON BODY AND 1/2 GRATE, WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.
FS-3	FLOOR SINK DISHWASHER	SIZE/ DWG.	SIZE/ DWG.	-	-	ZURN #ZN-1901	FLOOR	12" SQUARE TOP 8" DEEP DEEP CAST IRON BODY AND NO GRATE, WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.
FS-4	FLOOR SINK COKE MACHINE	SIZE/ DWG.	SIZE/ DWG.	-	-	MIFAB #FS524-30	FLOOR	8" SQUARE TOP 6" DEEP DEEP PVC BODY AND NO GRATE, WITH WHITE CHEMICAL RESISTING INTERIOR AND TOP, COMPLETE WITH ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.
RD-1	ROOF DRAIN	SIZE/ DWG.	-	-	-	ZURN ZLC #Z121	ROOF	DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE CAST IRON DOME.
RD-2	ROOF DRAIN	SIZE/ DWG.	-	-	-	ZURN ZLC #Z103-45	ROOF	DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILHOUETTE CAST IRON DOME. PROVIDE WITH DUAL OUTLET FOR PRIMARY AND OVERFLOW DRAINS.
TD-1	FLOOR TROUGH	SIZE/ DWG.	SIZE/ DWG.	-	-	STAINLESSDRAINS.COM	FLOOR	304 STAINLESS STEEL HIMED TRENCH DRAINS. 24", 36", 72", & 96" LONG. FURNISHED & INSTALLED BY P.C. WITH 12 GA. PERFORATED GRATE & SEDIEMENT BASKET. CONTACT SUPPLIER AT (888) 785-2345.
GWH-1	GAS WATER HEATER	-	-	1-1/2"	1-1/2"	HTP #SHP320-119 ~~#SHP320-110~~ #PHP320-119		CONDENSING HIGH EFFICIENCY WATER HEATERS WITH AQUAPLEX TANK. 320,000 BTU/HR. DIRECT VENT. SET TEMPERATURE AT 140 DEG. F. OWNER FURNISHED, CONTRACTOR INSTALLED. INSTALL AS PER MANUFACTURER'S RECOMMENDATION. SYSTEM SHALL BE PURCHASED THROUGH FRG/HTP NATIONAL ACCOUNTS BY OWNER. CONTRACTOR SHALL CONTACT BEN WIRICK FRG/HTP AT (877) 554.0004 OR (616) 406.0004 BWIRICK@WEBFRG.COM FOR DELIVERY INFORMATION.
TMV-1	THERMOSTATIC MIXING VALVE			3/4"	3/4"	WILKINS #2W38TOALT	BELOW FIXTURE	SET AT 110 DEG. F. OUTLET TEMPERATURE. INTEGRAL CHECK VALVES, LEAD FREE. ASSE 1017, ASSE 1069 & ASSE 1070. INSTALL PER MANUFACTURER'S RECOMMENDATION.
WS-1	WATER SOFTENER	-	-	-	-	OWNER FURNISHED, CONTRACTOR INSTALLED.		WATER SOFTERNER COMPLET WITH BRINE TANK. OWNER FURNISHED, CONTRACTOR INSTALLED. BRINE TANK SHALL BE SET ON 4"X4" REDWOOD BLOCK.
Y	POINT OF USE TREATMENT SYSTEM				1/4"	ANOVA RESOURCES		SCALE SLAYER MULTI-PORPOSE POINT OF USE TREATMENT SYSTEM WITH OPTIONAL MOUNTING BRACKET.
ECO-1	EXTERIOR CLEAN-OUT	SIZE/ DWG.	-	-	-	ZURN #C02450		PROVIDE CLEAN-OUT WITH 2-WAY CLEAN-OUT TEE. (LAWN, IN FLUSH 12"x12"x4" CONCRETE PAD.)
FCO-1	FLOOR CLEAN-OUT	SIZE/ DWG.	-	-	-	ZURN #C02450		FLOOR CLEANOUT, GAS & WATER TIGHT PLUG, ROUND SCORIATED TOP ADJUSTABLE TO FINISHED FLOOR. REFER TO PLANS AND DIAGRAMS FOR LOCATIONS.
	OVERFLOW NOZZLE	SIZE/ DWG.				ZURN #Z199		NICKLE BRONZE DOWNSPOUT NOZZLE WITH THREADED CONNECTION. PROVIDE WITH REMOVABLE STAINLESS STEEL SCREEN.

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MICHAEL A. COSTELLO
PE0081436

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ISSUE	BY	DATE	DESCRIPTION
1			

PROJECT INFORMATION BLOCK

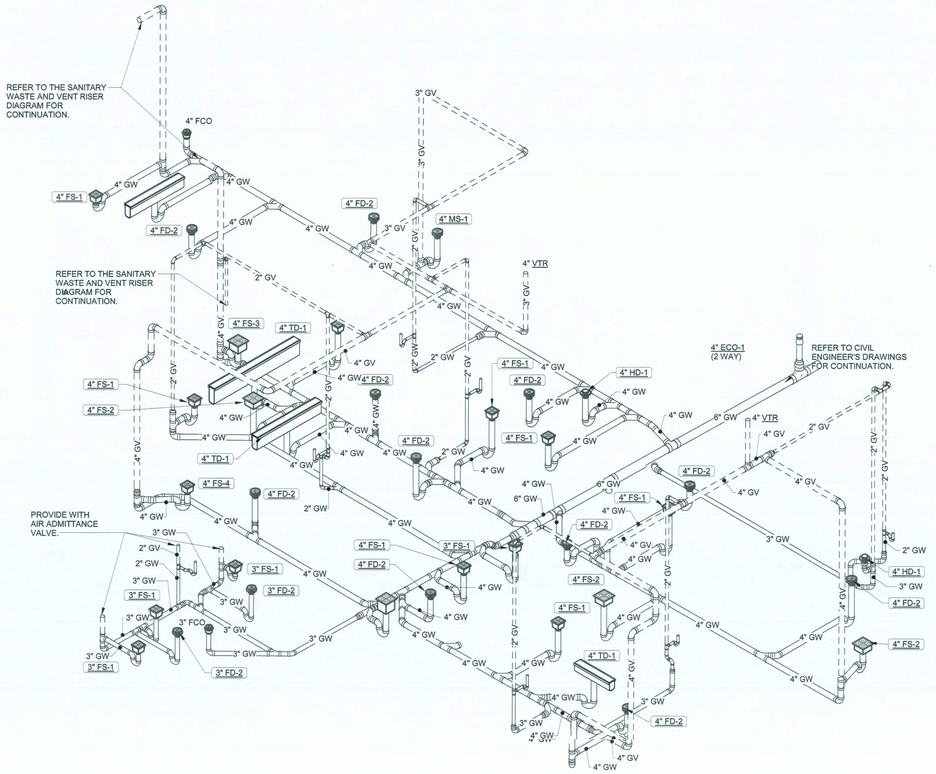
JOB #	188014
DATE:	09/19/2019
DRAWN BY:	SC
CHECKED BY:	MC

SHEET TITLE

PLUMBING SCHEDULES

SHEET NUMBER

P601

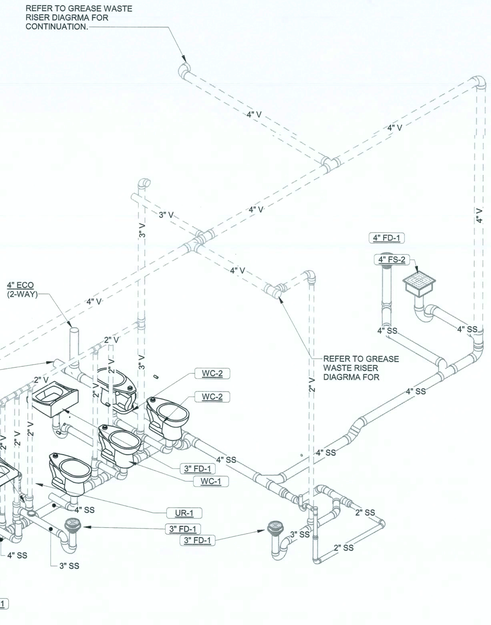


1 P901 WASTE & VENT RISER DIAGRAM
NO SCALE

GREASE INTERCEPTOR CALCULATIONS

MARK	LENGTH (IN)	WIDTH (IN)	DEPTH (IN)	# OF BOWLS	TOTAL CU. IN /SINK
65	24	24	16.5	2	19008
68	24	24	16.5	2	19008
73	24	24	16.5	3	28512
35	15	17	5	5	6375
TOTAL CU. IN					72,903 CU. IN.
CAPACITY IN GALLONS (1-Gallon=231 Cubic Inches)					315.60 Gallons
DRAINAGE LOAD. The fixture is normally filled about 75% of the capacity with water. The items washed displace about 25% of the fixture content, thus the actual drainage load = 75% of the fixture capacity.					236.70 Gallons
FLOW RATE. Time required to drain the fixture. In general, a 1 minute drain period is used . However, where conditions permit a 2 minute drain period may be use. Flow Rate =Drain Load /Drainage Period					**236.70 GPM @ 1 Minute**
OTHER FIXTURES	QTY	GPM			
HAND SINKS	5	1.875			9.38 GPM
FLOOR DRAINS/SINKS	38	0.75			28.50 GPM
PRE-RINSE	1	3.75			3.75 GPM
DISHWASHER	1	9			9.00 GPM
TOTAL FLOW IN GPM (1 MINUTE DRAIN TIME)					**287.32 GPM**

ASME A112.14.3, PDI-G101 CERTIFIED HYDROMECHANICAL GREASE INTERCEPTOR PER FBC-PLUMBING SECTION 1003.3.4. SEE DETAIL SHEET FOR MORE INFORMATION.



2 P901 RESTROOM WASTE AND VENT RISER DIAGRAM
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PE0081436

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ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	188014
DATE:	09/19/2019
DRAWN BY:	SC
CHECKED BY:	MC

SHEET TITLE

PLUMBING RISER DIAGRAMS

SHEET NUMBER

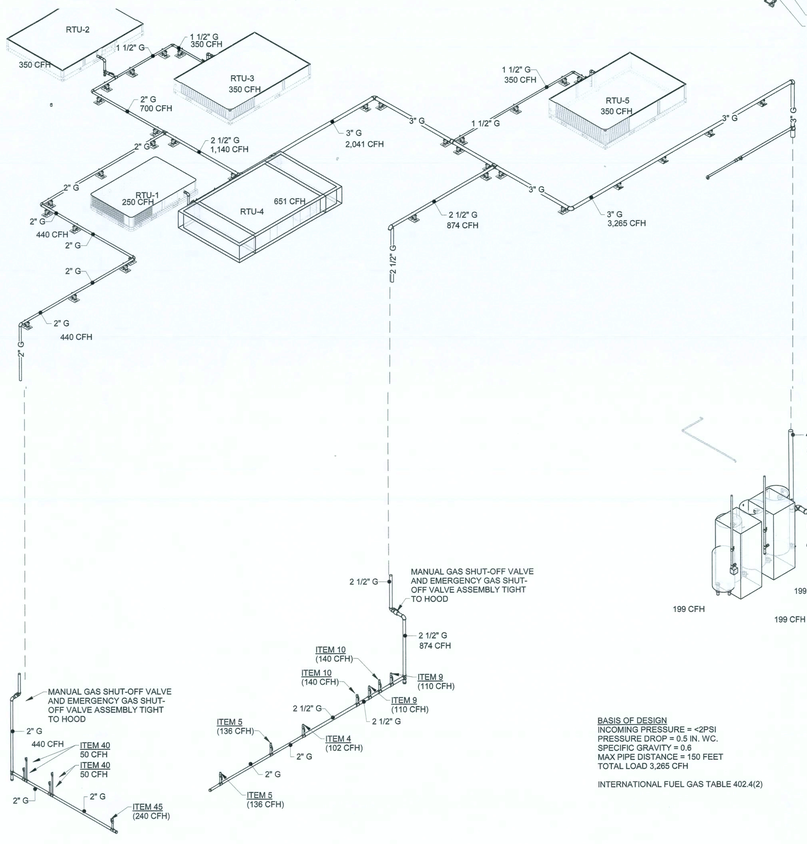
P901

FOOD SERVICE GAS CONNECTION SCHEDULE

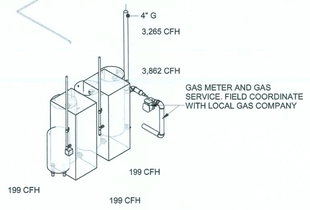
EQUIPMENT SPECIFIED IN THIS SCHEDULE IS SUBJECT TO CHANGE VERIFY ALL UTILITY CONNECTIONS WITH EQUIPMENT SUPPLIER AND CONFIRM COMPLIANCE WITH LOCAL BUILDING CODES PRIOR TO DOING ROUGH-INS

ITEM #	DESCRIPTION	GAS		COMMENT
		SIZE	LOAD	
4	CHAR BROILER	3/4"	102,000	
5	CHAR BROILER	3/4"	136,000	
9	14" DEP FRYER W/CASTERS	3/4"	110,000	
10	18" DEP FRYER W/CASTERS	3/4"	140,000	
40	CONVECTION OVENS (DOUBLE STACKED)	3/4"	50,000 X2	
45	8 BURNER RANGE	3/4"	240,000	

NOTE:
PLUMBING CONTRACTOR IS REQUIRED TO PROVIDE ALL MATERIALS TO MAKE FINAL CONNECTIONS BETWEEN EQUIPMENT TO WATER LINES AND DRAINS. STAND-OFF SUPPORTS MUST BE INSTALLED ON ALL INDIRECT CONNECTION DRAIN LINES.

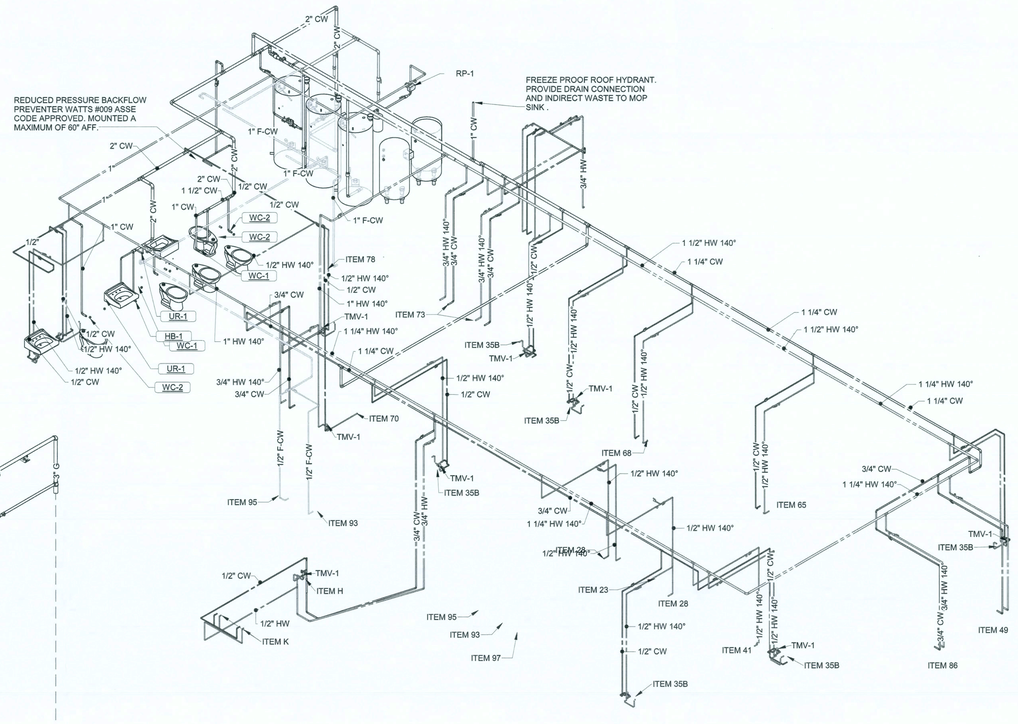


2 P902 OVERALL BUILDING GAS RISER DIAGRAM
NO SCALE



BASIS OF DESIGN
INCOMING PRESSURE = <2PSI
PRESSURE DROP = 0.5 IN. WC.
SPECIFIC GRAVITY = 0.6
MAX PIPE DISTANCE = 150 FEET
TOTAL LOAD 3,265 CFH

INTERNATIONAL FUEL GAS TABLE 402.4(2)



3 P902 RESTROOM DOMESTIC WATER RISER DIAGRAM
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PE0081436

MECHANICAL SEAL 9/16/2019 12:13:40 PM

ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

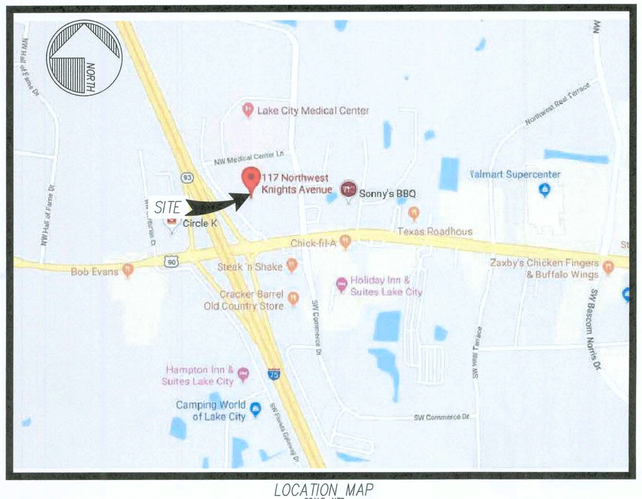
JOB #	188014
DATE:	09/19/2019
DRAWN BY:	SC
CHECKED BY:	MC

SHEET TITLE

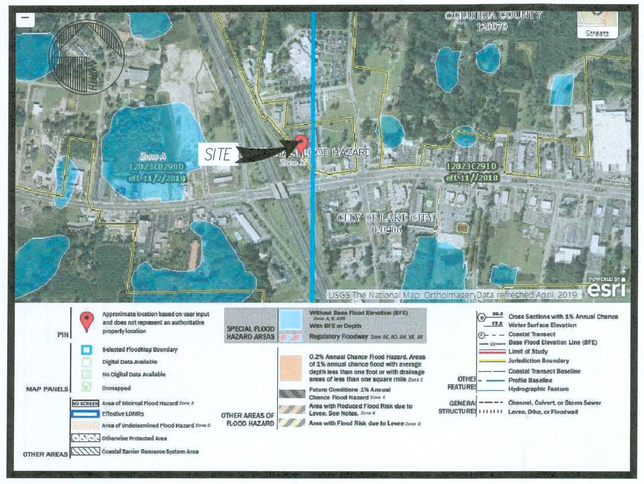
PLUMBING RISER DIAGRAMS

SHEET NUMBER

P902



LOCATION MAP
SCALE: NTS



FEMA MAP
SCALE: NTS

THIS TRACT OF LAND DOES NOT LIE WITHIN THE 100 YEAR INTERMEDIATE REGION FLOOD ZONE AS PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY AS SHOW ON COMMUNITY-PANEL NO. 12023C0290D LAST REVISED NOVEMBER 2, 2018.

TEXAS ROADHOUSE

117 NW KNIGHTS AVENUE
LAKE CITY, FLORIDA
LAND LOT 35
16 DISTRICT, SECTION 3S
COLUMBIA COUNTY, FLORIDA 32055

ZONED: CHI – COMMERCIAL, HIGHWAY INTERCHANGE
PARCEL ID# 35-3S-16-02545-000
TOTAL SITE ACREAGE: 1.995 ACRES
TOTAL DISTURBED ACREAGE: 2.19 ACRES

OWNER/DEVELOPER
TEXAS ROADHOUSE, LLC.
6040 DUTCHMANS LANE
LOUISVILLE, KENTUCKY 40205

24 HOUR CONTACT:
CAITI KINCAID
REAL ESTATE PROJECT MANAGER
PHONE: 502.855.5556
EMAIL: CAITLIN.KINCAID@TEXASROADHOUSE.COM

DESIGNED BY:
RIDGE PLANNING AND ENGINEERING
1290 KENNESTONE CIRCLE-BLDG A, SUITE 200
MARIETTA, GA 30066
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APPROVED (Subject to Revisions)
Life Safety Services
Columbia County Fire Rescue
Florida Fire Inspector # 136448
By: _____ Date: 10-1-19

ENGINEER OF RECORD –
KEVIN M. DAVENPORT, PE
FLORIDA PE NO. 48894

KEVIN DAVENPORT DESIGN CONSULTANTS, LLC
670 A1A BEACH BOULEVARD, UNIT B
ST. AUGUSTINE, FL 32080
PHONE – 904.759.7829

CERTIFICATE OF AUTHORIZATION NO. 31457

SIGNATURE DATE

48 HOURS BEFORE YOU DIG
CALL SUNSHINE STATE
ONE CALL OF FLORIDA, INC.
1-800-432-4770
IT'S THE LAW IN FLORIDA
FL STATUTE 556 REQUIRES A MINIMUM OF 2 DAYS AND MAX. OF 5 DAYS NOTICE BEFORE YOU EXCAVATE.

CAUTION
THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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TEXAS ROADHOUSE

TEXAS ROADHOUSE
117 NW KNIGHTS AVE.
LAKE CITY, FLORIDA

APPROVED - GATEWAY PLANNING - COLUMBIA COUNTY - BUILDING DEPARTMENT

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SEAL

Architect of Record
Gregg A. Hildsworth, AIA, LEED AP
FL License # AR0017869

ISSUE	BY	DATE	DESCRIPTION

PROJECT NFORMATION BLOCK

JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

COVER

SHEET NUMBER

G000

6/27/2019 4:53:36 PM

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE COMMENCEMENT OF CONSTRUCTION. ENGINEER AND ITS ASSOCIATES SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY INACCURACIES. ANY DEVIATION IN PLAN INFORMATION SHALL BE REPORTED TO ENGINEER IMMEDIATELY.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A DEWATERING PERMIT FROM THE WATER MANAGEMENT DISTRICT AS REQUIRED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS AND DRIVEWAYS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH FDOT MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS.
4. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER. CONTRACTOR SHALL NOT REMOVE AND/OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL BY ENGINEER.
5. ALL UNDERGROUND UTILITIES AND INFRASTRUCTURE LOCATED BENEATH THE STABILIZED PORTION OF THE ROAD BED SHALL BE INSTALLED BEFORE COMPACTION OF THE SUBGRADE OR AS OTHERWISE DIRECTED BY THE ENGINEER.
6. A PRECONSTRUCTION MEETING SHALL TAKE PLACE WITH OWNER, ENGINEER, ARCHITECT AND UTILITY COMPANIES BEFORE THE START OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE WITH ENGINEER FOR SIDEWALK AND SCORING PATTERN. SIDEWALK CONSTRUCTION SHALL ALLOW FOR CONTOURING AROUND EXISTING AND/OR CONSTRUCTED CONDITIONS.
8. THE CONTRACTOR IS ALSO RESPONSIBLE FOR CREATING, IMPLEMENTING AND MAINTAINING A STORM WATER POLLUTION PREVENTION PLAN AS PER THE REQUIREMENTS OF THE NPDES GENERAL PERMIT.
9. TESTING: ALL TESTS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, SPECIFICALLY FDOT SPEC 160, 200, 330, AND
A. THE PROPOSED STABILIZED SUBGRADE SHALL HAVE MIN. L.B.R. OF 40 AND SHALL BE COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 THE PROPOSED LIMEROCK BASE SHALL BE PLACED IN TWO (2) LIFTS WITH EACH LIFT COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
B. ONE (1) FIELD DENSITY TEST SHALL BE REQUIRED EVERY 300 LF OR PART THEREOF BOTH ON THE FINISHED SUBGRADE MATERIAL AND ON EACH LIFT OF LIMEROCK BASE MATERIAL. TWO (2) COPIES OF EACH L.B.R., PROCTOR AND DENSITY TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.
10. AREAS DISTURBED BY CONSTRUCTION THAT ARE NOT INDICATED TO BE SODDED SHALL BE SEEDED.
11. NOTIFICATION TO OWNER AND ENGINEER IS REQUIRED 72 HOURS BEFORE CONSTRUCTION COMMENCEMENT, ALSO FOR PERFORMANCE OF DENSITY TESTING AND ASPHALTIC APPLICATION.
12. CONTRACTOR TO GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR.
13. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE BASED UPON BEST AVAILABLE INFORMATION REVIEWED AT THE TIME OF DOCUMENT PREPARATION. THIS INFORMATION MAY NOT BE OF SUITABLE ACCURACY OR CORRECTNESS OR THE CONTRACTOR'S CONSTRUCTION NEEDS. THEREFORE, THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING THE WORK BEFORE CONSTRUCTION.
14. REFERENCE GEOTECHNICAL EXPLORATION REPORT FOR SUBSURFACE INFORMATION AND SITE PREPARATION REQUIREMENTS.
15. THE CONTRACTOR WILL ENGAGE THE SERVICES OF A RECOGNIZED SOILS AND MATERIALS TESTING LABORATORY FOR COMPLIANCE TESTING AT THE CONTRACTORS EXPENSE. INSPECTIONS OR OTHER SERVICES DEEMED NECESSARY OR DESIRABLE BY THE OWNER WILL BE PAID FOR BY THE OWNER. THE COST OF ANY RE-TESTING REQUIRED, OR IMPACTS OF TIME DELAYS CAUSED, BY WORK OR MATERIALS NOT MEETING STATED CONTRACT REQUIREMENTS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SCHEDULE TESTING SO THAT CONSTRUCTION ACTIVITIES ARE NOT DISRUPTED. MISCELLANEOUS TESTING ABOVE AND BEYOND NORMALLY SCHEDULED TESTING MAY BE REQUESTED BY THE OWNER AT ANY TIME. THE CONTRACTOR SHALL COOPERATE WITH SUCH ACTIVITIES.
16. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL AFFECTED FEDERAL, STATE, LOCAL, AND PRIVATE ENTITIES POTENTIALLY AFFECTED. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS NOTICE OF WHEN CONSTRUCTION WILL COMMENCE IN THE AREA IN ORDER TO PERMIT FIELD LOCATION OF UTILITY LINES BEFORE CONSTRUCTION. A TOLL FREE NUMBER 1-800-432-4770 IS AVAILABLE TO ASSIST IN SUCH COORDINATION EFFORTS. THIS NUMBER IS PART OF THE UTILITY NOTIFICATION PROGRAM , COMMONLY REFERRED TO AS "ONE CALL", BUT DOES NOT TOTALLY REPRESENT ALL UTILITIES POTENTIALLY AFFECTED. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTORS ACTIVITIES, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE A REVIEW OF THE SITE TO DETERMINE EXISTING CONDITIONS AND ANYTHING NOT COVERED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND SHALL NOT CONSTITUTE AN EXTRA, UNLESS APPROVED IN WRITING BY THE OWNER.
18. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH DRIVEWAYS, SIDEWALKS, CURBS, FENCING, ETC., DAMAGED DURING CONSTRUCTION, WITH THE SAME TYPE AND QUALITY OF MATERIALS AND WORKMANSHIP AS PREVIOUSLY EXISTED.
19. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE OWNER'S REPRESENTATIVE UPON DISCOVERY OF CONFLICTS BETWEEN THE CONTRACT REQUIREMENTS AND ACTUAL CONSTRUCTION CONDITIONS, AND SHALL NOT PROCEED WITH ANY WORK FOR WHICH THE CONFLICT HAS ARISEN UNTIL CONFLICT IS RESOLVED WITH THE OWNER'S REPRESENTATIVE.
20. ALL BURIED PIPELINES, CONDUITS, CABLES, ETC. SHALL HAVE A MINIMUM COVER OF 30 INCHES BELOW FINISHED GRADE UNLESS OTHERWISE CALLED FOR. ALL FACILITIES AND ACCESSORIES SHALL BE INSTALLED IN COMPLIANCE WITH APPLICABLE LOCAL CODES AND REQUIREMENTS PLUS THESE CONTRACT DOCUMENTS.
21. CONSTRUCTION SHALL BE CARRIED OUT 'IN THE DRY'. THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR TIME REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.
22. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, COUNTY AND/OR CITY CODES, ORDINANCES, STANDARDS, AND PERMIT CONDITIONS.
23. CONTRACTOR SHALL EXPLORE POSSIBLE CONFLICTS WITH EXISTING UTILITIES (INCLUDING UNDERGROUND PHONE AND POWER) AT LEAST 72 HOURS BEFORE ACTUAL PIPE LAYING AND/OR INSTALLING STRUCTURES. ANY CONFIRMED CONFLICT SHALL BE REPORTED TO THE ENGINEER.
24. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND PIPING WHICH MIGHT INTERFERE WITH DEMOLITION. ANY DAMAGES TO UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
26. AT LOCATIONS TO RECEIVE NEW SIDEWALK, ASPHALT OR CURB & GUTTER, CONTRACTOR WILL SAW-CUT AND REMOVE EXISTING MATERIAL FROM SITE. CONTRACTOR WILL PREPARE SUBGRADE FOR INSTALLATION OF NEW MATERIAL.
27. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOW.
28. SUB-GRADE SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AND TEST RESULTS SHALL BE PROVIDED BEFORE INSTALLATION OF NEW STRUCTURES.
29. ALL NEW FINISH ELEVATIONS SHALL MATCH EXISTING ADJACENT CONCRETE AND ASPHALT ELEVATIONS.
30. TREE(S) TO BE DEMOLISHED SHALL BE CLEARED AND GRUBBED. NO BURNING SHALL BE ALLOWED ON OWNER'S PROPERTY.
31. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
32. CONTRACTOR SHALL ERECT A 4' ORANGE CONSTRUCTION FENCE OR FLAGGING AROUND THE CONSTRUCTION AREA. ALL WORK, INCLUDING MATERIAL STORAGE, SHALL BE KEPT WITHIN THIS AREA. CONTRACTOR SHALL RESTORE THE CONSTRUCTION AREA TO A CONDITION ACCEPTABLE TO OWNER.

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL ACCURATELY LOCATE ALL UNDERGROUND PIPES, CABLES AND UTILITIES IN THE AREAS OF CONTRUCTION. THIS SHALL BE DONE SEVEN DAYS PRIOR TO EXCAVATION TO AVOID AMAGE TO THESE FACILITIES. ALL DAMAGE RESULTING FROM CONTRACTOR'S FAURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S XPENSE.
2. THE CONTRACTOR SHALL NOTIFY FDT 24 HOURS IN ADVANCE OF CONSTRUCTION WITHIN THEIR RIGHT-OF-WAY IN ACCORDANCE WITH THE DRIVEWAY CONNECTION PERMIT FOR THIS SITE.
3. THE CONTRACTOR SHALL EMPLOY A AND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTRE PROPERTY CORNERS AND LAND MARKERS WHICH MAY BE DISTURBED BY CONSTRCTION.
4. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT AND/OR BRACING TO MAINTAIN THE STRUCTURAL INTEGRITYOF ALL POWER POLES AND SUPPORTS LOCATED WITHIN THE IMMEDIATE VICINITY OF TRENCH EXCAVATIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE POWER COMPANY TO PROVIDE TEMPORARY SUPPORT AND/OR BRACING IN \CCORDANCE WITH THE POWER COMPANY REQUIREMENTS.
5. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN BASEDON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE RAWINGS BUT ARE NOT PURPORTED TO BE ABSOLUTELY CORRECT. THERE MAY E OTHER IMPROVEMENTS, UTILILES, ETC. WHICH ARE WITHIN THE PROPOSED PROJECI AREA. CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION THE LOCATIONS, ELVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER EATURES (WHETHER OR NOT SHOWN ON THE DRAWINGS) AFFECTING HIS WORK.
6. THE CONTRACTOR SHALL NOTE THAI OVERHEAD UTILITIES MAY NOT BE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL FIELD LOCATE AND INCLUDE CONSIDERATION OF SUCH UTILITIES IN PLANNING AND XECUTING HIS WORK.
7. THE CONTRACTOR SHALL SHALL 'OLLOW ALL STATE, LOCAL AND FEDERAL REGULATIONS AND PROPERLY DISPOS OF ALL DEMOLITION DEBRIS AT AN APPROVED OFF-SITE LOCATION.
8. SILT FENCING SHALL BE INSTALLED RIOR TO COMMENCEMENT OF CONSTRUCTION TO INTERCEPT AND DETAIN SMALL AMUNTS OF SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION ACTIVITES IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE AND TO DESCREASE THE VLOCITY OF SHEET FLOWS. SILT FENCING SHALL BE INSPECTED IMMEDIATELY FOLLOWIN EACH RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED PERIODS OF RINFALL. SEDIMENT DEPOSITS ACCUMULATED DURING RAINFALL SHALL BE REMOED AFTER EACH RAINFALL EVENT AND ANY REPAIRS SHALL BE MADE IMMEDIA'LY. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE INTEGRITY OF THE SIT FENCING SYSTEM DURING THE LIFE OF THE PROJECT AND SHALL REPLACE IF NECSSARY.
9. THE CONTRACTOR SHALL INSTALL 'ORM DRAIN INLET PROTECTION TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AEA. THE INLET PROTECTION DEVICE SHALL BE INSTALLED IN A MANNER THAT WL FACILITATE CLEAN OUT AND DISPOSAL OF TRAPPED SEDIMENT AND MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES. THE STRUCTURES SHALL BE INSPECTED ATER EACH RAINFALL EVENT AND REPAIRED AS NECESSARY.

ENVIRONMENTAL NOTES:

1. SYNTHETIC HAY BALES OR FABRIC FECE (SILT TYPE) SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONSHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEIMENT FROM REACHING WATER BODIES OR WETLAND AREAS (REFERENCE STORM ATER POLLUTION PREVENTION PLANS). THESE BARRIERS SHALL BE INSTALLED BEFOR COMMENCING WITH ANY CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL SILT BARRIERS AN FENCING INCLUDING DAILY INSPECTIONS TO CHECK THEIR INTEGRITY. ANY LOOSE R DAMAGED SILT BARRIERS AND FENCING SHALL BE IMMEDIATELY REPAIRED OR REPLACD AS NECESSARY. ONCE CONSTRUCTION IS COMPLETED AND FINISHED GRADING AD STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS AND FENCING SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE ENGINEER AND BEFORE FINALACCEPTANCE.
2. ALL WATER COLLECTED AND PUMPED URING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS W'O DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 5 FEET FROM THE NEAREST WATER BODY OR WETLAND AREA TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES. EXCAVATION ACROSS ALL WETLANDS 'HALL BE ACCOMPLISHED BY STRIPPING THE TOP 10 INCHES OF SURFICIAL SOILS FROM THE FULL WIDTH OF THE AREA TO BE DISTURBED. SURFICIAL SOILS SHALL E REPLACED LAST AND SHALL BE SPREAD ACROSS THE ENTIRE DISTURBED WETLEN AREA TO HELP PROMOTE NATIVE VEGETABLE GROWTH. SURFICIAL SOILS SHALL NO BE STOCKPILED IN EXCESS OF TWO WEEKS. FURTHER, ALL ASPECTS OF BACKILLING, GRADING AND MULCHING SHALL BE COMPLETE WITHIN 30 DAYS OF INITIALWETLAND IMPACT FOR EACH JURISDICTIONAL AREA.
3. TEMPORARY STOCKPILES SHALL NOT E LOCATED ADJACENT TO WETLANDS WHERE SEDIMENTATION FROM STOCKPILES MA CAUSE DAMAGE TO WETLAND. ADDITIONALLY, SILT BARRIERS AND FENCING SHALL ONTINUOUSLY AND FULLY ENCIRCLE ALL STOCKPILES WHICH WILL REMAIN FOR LONGER THAN 24 HOURS TO CONTAIN MATERIALS WITHIN A REASONABLY COFINED AREA.
4. BANKS SHALL BE PROTECTED FROM EOSION OR COLLAPSE DURING CONSTRUCTION. BANK PROTECTION MATERIAL SHALL B CAREFULLY PLACED FROM THE BANK AND NOT DUMPED FROM ABOVE IN AN UNCONTROLLED MANNER. SANDBAGS SHALL BE USED FOR PROTECTING THE BANKS. UON COMPLETION OF CONSTRUCTION, BANKS AND WATERWAYS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONFIGURATION AND PROTECTED FROM EROSION.

GENERAL PIPING NOTES:

1. ALL ABOVE GROUND PIPING, UNLESS 'ECIFICALLY EXEMPTED SHALL HAVE FLANGED, WELDED, SCREWED, OR OTHER RIGID CINNECTIONS.
2. ALL BURIED PIPING, UNLESS SPECIFICLLY EXEMPTED, SHALL HAVE PUSH-ON JOINTS.
3. LAY PIPE AT UNIFORM GRADE BETWEI INDICATED POINTS.
4. SIZE OF FITTINGS SHOWN ON THE PLAIS SHALL CORRESPOND TO THE ADJACENT STRAIGHT RUN OF PIPE UNLESS OTHEWISE CALLED FOR.
5. LOCATION AND NUMBER OF PIPE HANERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. FINAL SUPPORT REQUIEMENTS SHALL BE DETERMINED IN THE FIELD AND APPROVED BEFORE INSTALLATION MAXIMUM SPACING SHALL BE AS INDICATED.
6. ALL JOINTS SHALL BE WATERTIGHT. TANDARD WALL PIPE DETAIL SHALL BE USED WHEREVER PIPING PASSES FROM A STUCTURE TO BACKFILL.
7. ALL FLEXIBLE CONNECTORS OR FLANGD COUPLING ADAPTERS SHALL BE WITH HRUST TIES, BLOCKS, OR ANCHORS, UNLESSOTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR THE TEST PRESSURES SPECIFIED MINIMUM TEST PRESSURE OF 150 PSI.
8. ALL BURIED PIPING SPECIFIED TO BE RESSURE TESTED, EXCEPT FLANGED, WELDED, OR SCREWED PIPING, SHALL BE PROVED WITH THRUST RESTRAINT AT ALL DIRECTION CHANGES, UNLESS OTHERWISE NOTED. EE THRUST DETAILS AND NOTES WHERE PROVIDED.
9. ALL TEES, CROSSES, PLUGS, BENDS (ORIZONTAL AND VERTICAL), DEFLECTING 11.25 DEGREES OR MORE, SHALL BE INSTALLD WITH RESTRAINED JOINTS.
10. SPECIAL PIPE FOUNDATIONS, IF REQUIED, SHALL BE DETERMINED IN THE FIELD AND THE TYPE REQUIRED SHALL BE REVIEWD BY THE OWNER'S REPRESENTATIVE.
11. BURIED FORCE MAINS, REUSE, AND WER LINES SHALL HAVE A MIMIMUM COVER OF 36 INCHES UNLESS OTHERWISE INDICA'D.
12. DEWATERING FOR COSTS FOR PIPE AN STRUCTURE INSTALLATIONS SHALL BE INCLUDED IN THE PIPE AND STRUCTUR UNIT PRICE COSTS.
13. ALL PVC WATER PIPE SHALL BE LAID 1TH METAL SOLID COPPER WIRE (14-THIN) ONE (1) FOOT ABOVE AND PARALLEL) THE PIPE CENTERLINE. A 6' PIECE OF 14 Ga. WIRE SHALL BE WRAPPED AROUND EAD VALVE NUT & EXTENDED TO GRADE.
14. WATER LINES 4"-12" SHALL BE PVC PE IN ACCORDANCE WITH A.W.W.A. C-900, DR18 AND HAVE A MINIMUM PRESSURECLASS OF 150 psi.
15. SANITARY GRAVITY SEWER MAINS SHAL BE PVC SDR 26 UNLESS OTHERWISE SPECIFIED FOR IN THE PROJECT SPECIACTIONS OR CONSTRUCTION PLANS.
16. SANITARY GRAVITY SEWER PIPE DISTANCES ARE FROM CENTER TO CENTER OF MANHOLES.

GENERAL WATER/SEWER CLEARANCE REQUIREMENTS:

1. SEWERS CROSSING WATER MAINS:

GRAVITY SEWERS OR FORCE MAINS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS AND WATER JOINTS WILL BE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 10 FEET BETWEEN ANY TWO JOINTS. WHERE THE MINIMUM 18 INCH SEPARATION CANNOT BE MAINTAINED, THE SEWER SHALL BE PLAGED IN A SLEEVE OR ENCASED IN CONCRETE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN. WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER WATER MAINS, THE PIPES SHALL BE CENTERED AT THE CROSSING AS DESCRIBED ABOVE, AND THE WATER MAIN SHALL BE PLACED IN A SLEEVE OR ENCASED IN CONCRETE FOR 20 FEET CENTERED ON THE POINT OF CROSSING. ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO THE WATER MAIN.

2. SEWERS PARALLELING WATER MAINS:

SEWERS SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAINS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT SEPARATION, THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF. FORCE MAINS SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.

PUBLIC ACCESS RECLAIMED WATER LINE CLEARANCES:

MAXIMUM OBTAINABLE SEPARATION OF RECLAIMED WATER LINES AND DOMESTIC WATER LINES SHALL BE PRACTICED. A MINIMUM HORIZONTAL SEPARATION OF 5 FEET (CENTER TO CENTER) OR 3 FEET (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN RECLAIMED WATER LINES AND EITHER POTABLE WATER OR SEWAGE COLLECTION LINES. AN 18 INCH VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS.

GENERAL TRAFFIC CONTROL NOTES:

1. THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) INCLUDING PART VI REVISION 3 AND THE FDOT BOOKLET ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 600 THROUGH 660 AS APPLICABLE.
2. THE COST OF ALL TRAFFIC CONTROL DEVICES INCLUDING PAVEMENT MARKINGS SHALL BE INCLUDED IN THE LUMP SUM COSTS .
3. WHERE THE PLACEMENT OF A CONSTRUCTION SIGN SPECIFIED IN THE TRAFFIC CONTROL PLAN IS IN CONFLICT WITH AN EXISTING SIGN, THE EXISTING SIGN SHALL BE COVERED OR RELOCATED AS APPLICABLE. SIGNS SPECIFIED IN THE INDEXES THAT ARE REFERRED TO IN THE TRAFFIC CONTROL PLAN SHALL BE PLACED IN ADDITION TO THE SIGNS SPECIFIED IN THE CONSTRUCTION DETAILS SHOWN IN THE PLAN. IN THE CASE OF CONFLICT BETWEEI TWO SETS OF SIGNS, THE SIGN SPECIFIED IN THE INDEX SHALL TAKE PRECEDENCE OVER THE SIGN SPECIFIED IN THE CONSTRUCTION SIGN DETAIL.
4. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE BY WATER BLASTING OR OTHERWISE APPROVED METHOD BY ENGINEER.

GENERAL SIGNING AND MARKING NOTES:

1. ALL STRIPING SHALL CONFORM TO THE SPECIFICATIONS.
2. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND ENDING OF PROJECT AND ALL SIDE STREETS.

A. SIGNS SHALL BE PLACED IN ACCORDANCE WITH INDEX NO. 17302.

B. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, CURB CUTS, ETC. SHALL BE ADJUSTED AS DIRECTED BY ENGINEER.

C. EXISTING SIGNS TO BE REMOVED SHALL BE DELIVERED AND STOCKPILED ON SITE IN THE MATERIALS STORAGE AREA, AND RETURNED TO THE OWNER.

3. COST FOR SIGNING AND MARKING, IF ANY, SHALL BE INCLUDED IN THE COSTS FOR PAVEMENT.

GENERAL SITEWORK REQUIREMENTS:

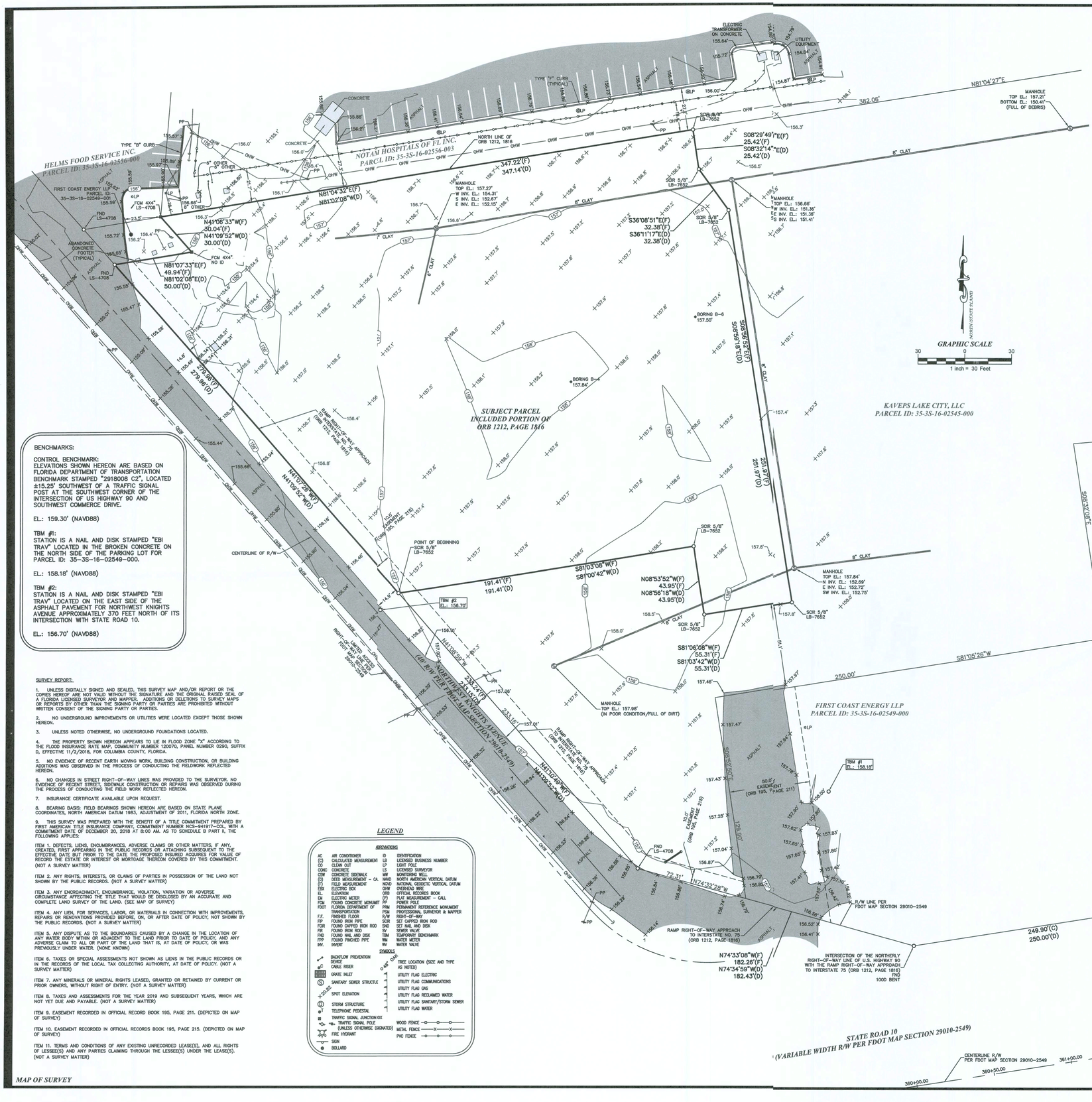
CLEARING NOTES:

1. REFERENCE GOVERNING MUNICIPAL LDC FOR NATIVE VEGETATION REQUIREMENTS.
2. BEFORE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING (ENHROFENCE) BEYOND THE DRIPLINES OF RETAINED VEGETATION AND ALONG THE LIMITS OF CLEARING. THIS FENCE SHALL REMAIN ERECTED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
3. ADDITIONAL WELLS AND/OR SEPTIC SYSTEMS OTHER THAN WHAT IS SHOWN ON PLANS MAY EXIST.
4. CONTRACTOR TO CONSTRUCT AND/OR ABANDON WELLS PER CHAPTER 62-555
5. THE CONTRACTOR SHALL NOT DISTURB OR RELOCATE ANY EXISTING UTILITY WITHOUT WRITTEN PERMISSION FROM THE UTILITY OWNER.
6. AREAS WITHIN THE RIGHT-OF-WAY AND EASEMENTS SHALL BE CLEARED OF ALL TREES, ROOTS, VEGETATION, AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE. AREAS OF EXCLUSION SUCH AS TREES OR DESIGNATED BUFFERS SHALL BE ADEQUATELY MARKED FOR PROTECTION.
7. AREAS TO RECEIVE FILL OR TO BE EXCAVATED FOR FILL MATERIAL SHALL HAVE ALL ORGANIC MATERIAL AND TOPSOIL REMOVED TO A DEPTH OF NO LESS THAN ONE FOOT.
8. STOCKPILES OF WASTE OR EXCESS MATERIAL SHALL NOT REMAIN WITHIN THE RIGHT-OF-WAY OR EASEMENTS AND SHALL BE REMOVED FROM THE BOUNDS OF THE PROJECT PRIOR TO CITY ENGINEER APPROVAL OF ROADWAY SUBGRADE.
9. STOCKPILES OF EXCAVATED TOPSOIL OR FILL MATERIAL SHALL BE LOCATED SUCH THAT SITE DRAINAGE OR WATERWAYS ARE NOT OBSTRUCTED. THE OWNER OF PROPERTY MAY TEMPORARILY STOCKPILE TOPSOIL OR ROCKS, OUTSIDE OF ALL RIGHTS-OF-WAY AND EASEMENTS, TO REMAIN FOR FUTURE LANDSCAPING. STOCKPILES OF EXCESS SUITABLE MATERIAL MUST BE REMOVED PRIOR TO FINAL INSPECTION OR APPROPRIATELY PERMITTED TO REMAIN ON SITE. A STOCKPILE LOCATION APPROVAL MUST BE OBTAINED THROUGH THE DEVELOPMENT REVIEW STAFF AND A PERMIT MUST BE OBTAINED.
10. APPROPRIATE PERMITS SHALL BE OBTAINED PRIOR TO THE BURNING OF DEBRIS OR OFF-SITE DISPOSAL OF MATERIALS. BURNING SHALL BE CONDUCTED IN A MANNER WHICH WILL NOT HARM ADJACENT TREES, SHRUBS OR PROPERTY, OR CREATE A PUBLIC NUISANCE.
11. EROSION CONTROL MEASURES IN ACCORDANCE WITH FDOT DESIGN STANDARDS, INDEX NUMBERS 102 AND 103 SHALL BE IN PLACE PRIOR TO EXPOSING ERODIBLE EARTH ON SUCH GRADES AS EROSION MAY BE DETRIMENTAL TO ADJOINING PROPERTIES, RIGHTS-OF-WAY, WATERWAYS, OR STORMWATER MANAGEMENT FACILITIES.

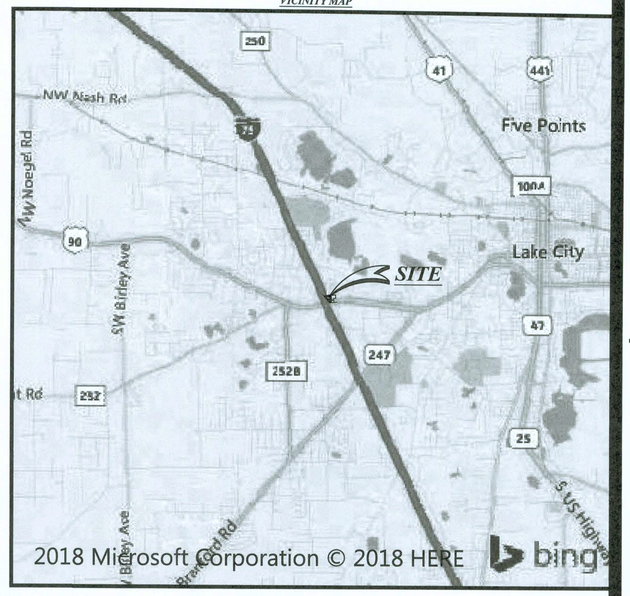
EARTHWORK NOTES:

1. EXCAVATION SHALL INCLUDE REMOVAL OF ALL MATERIALS AND STRUCTURES NECESSARY TO CONSTRUCT ROADWAY AND DRAINAGE FACILITIES TO THE APPROPRIATE LINE AND GRADE.
2. ROADWAY EXCAVATION SHALL BE MAINTAINED AND WELL DRAINED AT ALL TIMES. APPROPRIATE EROSION CONTROL MEASURES SHALL PREVENT LOSS OF MATERIALS DUE TO ACTION OF WIND OR WATER.
3. MATERIAL REMOVED SHALL BE DISPOSED OF OFF-SITE OR STOCKPILED AS APPROPRIATE IN ACCORDANCE WITH GOVERNING MUNICIPAL LDC.
4. SUBSOIL EXCAVATION SHALL INCLUDE REMOVAL OF ALL MUCK, ROCK, CLAY OR UNSUITABLE MATERIALS WITHIN THE ROADWAY.
5. FILL PLACED FOR ROADWAY EMBANKMENT OR REPLACEMENT OF SUB SOIL EXCAVATION SHALL BE PLACED IN A MAXIMUM OF 12" LIFTS, AND COMPACTED TO MINIMUM DENSITY SPECIFIED ON THE DESIGN DRAWINGS. FILL PLACED IN EXCESS OF FOUR FEET IN TOTAL DEPTH MAY BE PLACED AT A MINIMUM COMPACTION OF 95% OF MAXIMUM AS DETERMINED BY AASHTO METHOD T-180, EXCEPT THAT THE TOP FOUR-FOOT OF FILL SHALL MEET THE SPECIFIED COMPACTION REQUIREMENTS FOR SUBGRADE.
6. MATERIALS PLACED IN STORM SEWERS, SANITARY SEWERS AND OTHER UTILITY EXCAVATIONS UNDER THE ROADWAY, SHALL CONFORM TO COMPACTION REQUIREMENTS FOR EMBANKMENT FILL FOR THE FULL DEPTH OF THE EXCAVATION. LIFT THICKNESS OF FILL MATERIAL MAY BE REDUCED AS NECESSARY DUE TO TYPE OF COMPACTION EQUIPMENT, AND MATERIAL CLASSIFICATION, IN ORDER TO OBTAIN THE REQUIRED COMPACTION.
7. PLACEMENT AND COMPACTION OF FILL SECTIONS SHALL BE CONSTRUCTED TO FULL WIDTH REQUIRED, IN SECTIONS NOT LESS THAN 300 FEET IN LENGTH OR FULL LENGTH OF THE EMBANKMENT. DENSITY WILL BE VERIFIED IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION REPORT.
8. MATERIALS PLACED FOR STORMWATER MANAGEMENT BASIN EMBANKMENTS SHALL BE PLACED IN MAXIMUM12" LIFTS AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO METHOD T-99.
9. SUBGRADE PREPARATION WORK SHALL CONSIST OF BRINGING THE BOTTOM OF EXCAVATIONS AND TOP OF EMBANKMENTS OF THE ROADWAY TO A SURFACE CONFORMING TO THE GRADES, LINES, AND CROSS SECTIONS SHOWN ON THE PLANS.
10. ALL STUMPS, RO

MAP OF SURVEY



VICINITY MAP



SITE PHOTOGRAPH

BENCHMARKS:

CONTROL BENCHMARK:
ELEVATIONS SHOWN HEREON ARE BASED ON FLORIDA DEPARTMENT OF TRANSPORTATION BENCHMARK STAMPED "2918008 C2", LOCATED ±15.25' SOUTHWEST OF A TRAFFIC SIGNAL POST AT THE SOUTHWEST CORNER OF THE INTERSECTION OF US HIGHWAY 90 AND SOUTHWEST COMMERCE DRIVE.

EL.: 159.30' (NAVD88)

TBM #1:
STATION IS A NAIL AND DISK STAMPED "EBI TRAV" LOCATED IN THE BROKEN CONCRETE ON THE NORTH SIDE OF THE PARKING LOT FOR PARCEL ID: 35-3S-16-02549-000.

EL.: 158.18' (NAVD88)

TBM #2:
STATION IS A NAIL AND DISK STAMPED "EBI TRAV" LOCATED ON THE EAST SIDE OF THE ASPHALT PAVEMENT FOR NORTHWEST KNIGHTS AVENUE APPROXIMATELY 370 FEET NORTH OF ITS INTERSECTION WITH STATE ROAD 10.

EL.: 156.70' (NAVD88)

SURVEY REPORT:

1. UNLESS DIGITALLY SIGNED AND SEALED, THIS SURVEY MAP AND/OR REPORT OR THE COPIES HEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

2. NO UNDERGROUND IMPROVEMENTS OR UTILITIES WERE LOCATED EXCEPT THOSE SHOWN HEREON.

3. UNLESS NOTED OTHERWISE, NO UNDERGROUND FOUNDATIONS LOCATED.

4. THE PROPERTY SHOWN HEREON APPEARS TO LIE IN FLOOD ZONE "X" ACCORDING TO THE FLOOD INSURANCE RATE MAP, COMMUNITY NUMBER 120070, PANEL NUMBER 0290, SUFFIX D, EFFECTIVE 11/2/2018, FOR COLUMBIA COUNTY, FLORIDA.

5. NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS WAS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK REFLECTED HEREON.

6. NO CHANGES IN STREET RIGHT-OF-WAY LINES WAS PROVIDED TO THE SURVEYOR. NO EVIDENCE OF RECENT STREET, SIDEWALK CONSTRUCTION OR REPAIRS WAS OBSERVED DURING THE PROCESS OF CONDUCTING THE FIELD WORK REFLECTED HEREON.

7. INSURANCE CERTIFICATE AVAILABLE UPON REQUEST.

8. BEARING BASIS: FIELD BEARINGS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES, NORTH AMERICAN DATUM 1983, ADJUSTMENT OF 2011, FLORIDA NORTH ZONE.

9. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A TITLE COMMITMENT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NUMBER NCS-941917--COL, WITH A COMMITMENT DATE OF DECEMBER 20, 2018 AT 8:00 AM. AS TO SCHEDULE B PART II, THE FOLLOWING APPLIES:

ITEM 1. DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR MORTGAGE THEREON COVERED BY THIS COMMITMENT. (NOT A SURVEY MATTER)

ITEM 2. ANY RIGHTS, INTERESTS, OR CLAIMS OF PARTIES IN POSSESSION OF THE LAND NOT SHOWN BY THE PUBLIC RECORDS. (NOT A SURVEY MATTER)

ITEM 3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND. (SEE MAP OF SURVEY)

ITEM 4. ANY LIEN, FOR SERVICES, LABOR, OR MATERIALS IN CONNECTION WITH IMPROVEMENTS, REPAIRS OR RENOVATIONS PROVIDED BEFORE, ON, OR AFTER DATE OF POLICY, NOT SHOWN BY THE PUBLIC RECORDS. (NOT A SURVEY MATTER)

ITEM 5. ANY DISPUTE AS TO THE BOUNDARIES CAUSED BY A CHANGE IN THE LOCATION OF ANY WATER BODY WITHIN OR ADJACENT TO THE LAND PRIOR TO DATE OF POLICY, AND ANY ADVERSE CLAIM TO ALL OR PART OF THE LAND THAT IS, AT DATE OF POLICY, OR WAS PREVIOUSLY UNDER WATER. (NONE KNOWN)

ITEM 6. TAXES OR SPECIAL ASSESSMENTS NOT SHOWN AS LIENS IN THE PUBLIC RECORDS OR IN THE RECORDS OF THE LOCAL TAX COLLECTING AUTHORITY, AT DATE OF POLICY. (NOT A SURVEY MATTER)

ITEM 7. ANY MINERALS OR MINERAL RIGHTS LEASED, GRANTED OR RETAINED BY CURRENT OR PRIOR OWNERS, WITHOUT RIGHT OF ENTRY. (NOT A SURVEY MATTER)

ITEM 8. TAXES AND ASSESSMENTS FOR THE YEAR 2019 AND SUBSEQUENT YEARS, WHICH ARE NOT YET DUE AND PAYABLE. (NOT A SURVEY MATTER)

ITEM 9. EASEMENT RECORDED IN OFFICIAL RECORD BOOK 195, PAGE 211. (DEPICTED ON MAP OF SURVEY)

ITEM 10. EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 195, PAGE 215. (DEPICTED ON MAP OF SURVEY)

ITEM 11. TERMS AND CONDITIONS OF ANY EXISTING UNRECORDED LEASE(S), AND ALL RIGHTS OF LESSEE(S) AND ANY PARTIES CLAIMING THROUGH THE LESSEE(S) UNDER THE LEASE(S). (NOT A SURVEY MATTER)

LEGEND

ABBREVIATIONS

AC	AIR CONDITIONER	ID	IDENTIFICATION
(C)	CALCULATED MEASUREMENT	LB	LICENSED BUSINESS NUMBER
CO	CLEAN OUT	LP	LIGHT POLE
CONC	CONCRETE	LS	LICENSED SURVEYOR
CSW	CONCRETE SIDEWALK	MW	MONITORING WELL
(D)	DEED MEASUREMENT – CA	NAVD	NORTH AMERICAN VERTICAL DATUM
(F)	FIELD MEASUREMENT	NGVD	NATIONAL GEODETIC VERTICAL DATUM
EBX	ELECTRIC BOX	OHW	OVERHEAD WIRE
EL.	ELEVATION	ORB	OFFICIAL RECORDS BOOK
EM	ELECTRIC METER	(P)	PLAT MEASUREMENT – CALL
FCM	FOUND CONCRETE MONUMENT	PP	POWER POLE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	PRM	PERMANENT REFERENCE MONUMENT
		PSM	PROFESSIONAL SURVEYOR & MAPPER
F.F.	FINISHED FLOOR	R/W	RIGHT-OF-WAY
FIP	FOUND IRON PIPE	SCIR	SET CAPPED IRON ROD
FCIR	FOUND CAPPED IRON ROD	SND	SET NAIL AND DISK
FIR	FOUND IRON ROD	SV	SEWER VALVE
FND	FOUND NAIL AND DISK	TBM	TEMPORARY BENCHMARK
FPP	FOUND PINCHED PIPE	WM	WATER METER
INV.	INVERT	WV	WATER VALVE

SYMBOLS

BACKFLOW PREVENTION DEVICE; CABLE RISER; GRATE INLET; SANITARY SEWER STRUCTURE; SPOT ELEVATION; STORM STRUCTURE; TELEPHONE PEDESTAL; TRAFFIC SIGNAL JUNCTION BOX; TRAFFIC SIGNAL POLE (UNLESS OTHERWISE DESIGNATED); FIRE HYDRANT; SIGN; BOLLARD; TREE LOCATION (SIZE AND TYPE AS NOTED); UTILITY FLAG ELECTRIC; UTILITY FLAG COMMUNICATIONS; UTILITY FLAG GAS; UTILITY FLAG RECLAIMED WATER; UTILITY FLAG SANITARY/STORM SEWER; UTILITY FLAG WATER; WOOD FENCE; METAL FENCE; PVC FENCE

LEGAL DESCRIPTION: (BY SURVEYOR)

A PORTION OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1212, PAGE 1816, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, LYING IN THE WEST 1/2 OF SECTION 35, TOWNSHIP 3 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE INTERSECTION OF THE NORTHERLY RIGHT-OF-WAY LINE OF U.S. HIGHWAY 90 (A 100 FOOT RIGHT-OF-WAY PER SAID OFFICIAL RECORDS BOOK 1212, PAGE 1816) AND A LINE BEING 330 FEET, MORE OR LESS, WEST OF THE EASTERLY LINE OF THE WEST 1/2 OF SAID SECTION 35; THENCE S0.96 FEET ALONG SAID NORTHERLY RIGHT-OF-WAY LINE AND THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 2,919.79 FEET AND A CENTRAL ANGLE OF 01°00'00", (CHORD BEARING S81°32'08"W, A DISTANCE OF 50.96 FEET); THENCE CONTINUE ALONG SAID NORTHERLY LINE S81°02'08"W, A DISTANCE OF 47.30 FEET; THENCE N08°57'52"E, A DISTANCE OF 10.00 FEET; THENCE S81°02'08"W, A DISTANCE OF 250.00 FEET TO THE INTERSECTION OF SAID NORTHERLY RIGHT-OF-WAY LINE OF U.S. HIGHWAY 90 WITH THE RAMP RIGHT-OF-WAY APPROACH TO INTERSTATE 75; THENCE N74°34'59"W, ALONG SAID RAMP RIGHT-OF-WAY LINE, A DISTANCE OF 182.43 FEET; THENCE N41°09'52"W, ALONG SAID RAMP RIGHT-OF-WAY LINE, A DISTANCE OF 233.15 FEET FOR A POINT OF BEGINNING; THENCE CONTINUE N41°09'52"W, A DISTANCE OF 278.96 FEET; THENCE, DEPARTING SAID RAMP RIGHT-OF-WAY LINE, N81°02'08"E, A DISTANCE OF 50.00 FEET; THENCE N41°09'52"W, A DISTANCE OF 30.00 FEET TO THE NORTH LINE OF SAID LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1212, PAGE 1816; THENCE N81°02'08"E, ALONG SAID NORTH LINE, A DISTANCE OF 347.14 FEET; THENCE S08°32'14"E, A DISTANCE OF 25.42 FEET; THENCE S36°11'17"E, A DISTANCE OF 32.38 FEET; THENCE S08°56'18"E, A DISTANCE OF 251.97 FEET; THENCE S81°03'42"W, A DISTANCE OF 55.31 FEET; THENCE N08°56'18"W, A DISTANCE OF 43.95 FEET; THENCE S81°00'42"W, A DISTANCE OF 191.41 FEET TO SAID RAMP RIGHT-OF-WAY APPROACH TO INTERSTATE 75 AND THE POINT OF BEGINNING.

CONTAINING 86,910 SQUARE FEET OR 1.995 ACRES, MORE OR LESS.

TO INTEGRATED SCIENCE AND ENGINEERING:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(A) (IF PROVIDED), 7(A), 8, 9, 13, 14, 16, 17, AND 20 OF TABLE A THEREOF.

THE FIELDWORK WAS COMPLETED ON 02/22/2019.

AND

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECTION AND MEETS THE STANDARDS OF PRACTICE REQUIREMENTS OF CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE.

2/28/2019
DATE SIGNED

HENRY A. KILBURN, PSM
SURVEYOR AND MAPPER NUMBER: LS-6661
EWB@EBISURVEY.COM

POINT OF COMMENCEMENT INTERSECTION OF THE NORTHERLY RIGHT-OF-WAY LINE OF U.S. HIGHWAY 90 WITH THE EASTERLY LINE BEING 330'± WEST OF THE EASTERLY LINE OF THE WEST 1/2 OF SECTION 35, TOWNSHIP 3 SOUTH, RANGE 16 EAST (ORB 1212, PAGE 1816)

NORTHERLY RIGHT-OF-WAY LINE OF U.S. HIGHWAY NO. 90 (ORB 1212, PAGE 1816)

DELTA: 1°00'00"(C)
CHORD: S81°34'34"W, 50.96'(C)
S81°32'08"W, 50.96'(D)
RADIUS: 2,919.79'(C)(D)
ARC: 50.96'(C)
50.96'(D)

EBI Surveying
641 b Sunstate Street
Tampa, Florida 33634
Phone: (813) 886-6080 / Fax: (813) 886-6081
Certificate of Authorization Number: LB-7652

ALTA/NSPS LAND TITLE BOUNDARY AND TOPOGRAPHIC SURVEY

117 KNIGHTS AVENUE
SECTION 35
TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA, FLORIDA

APPROVED COLUMBIA COUNTY PLANNING & DEVELOPMENT DEPARTMENT

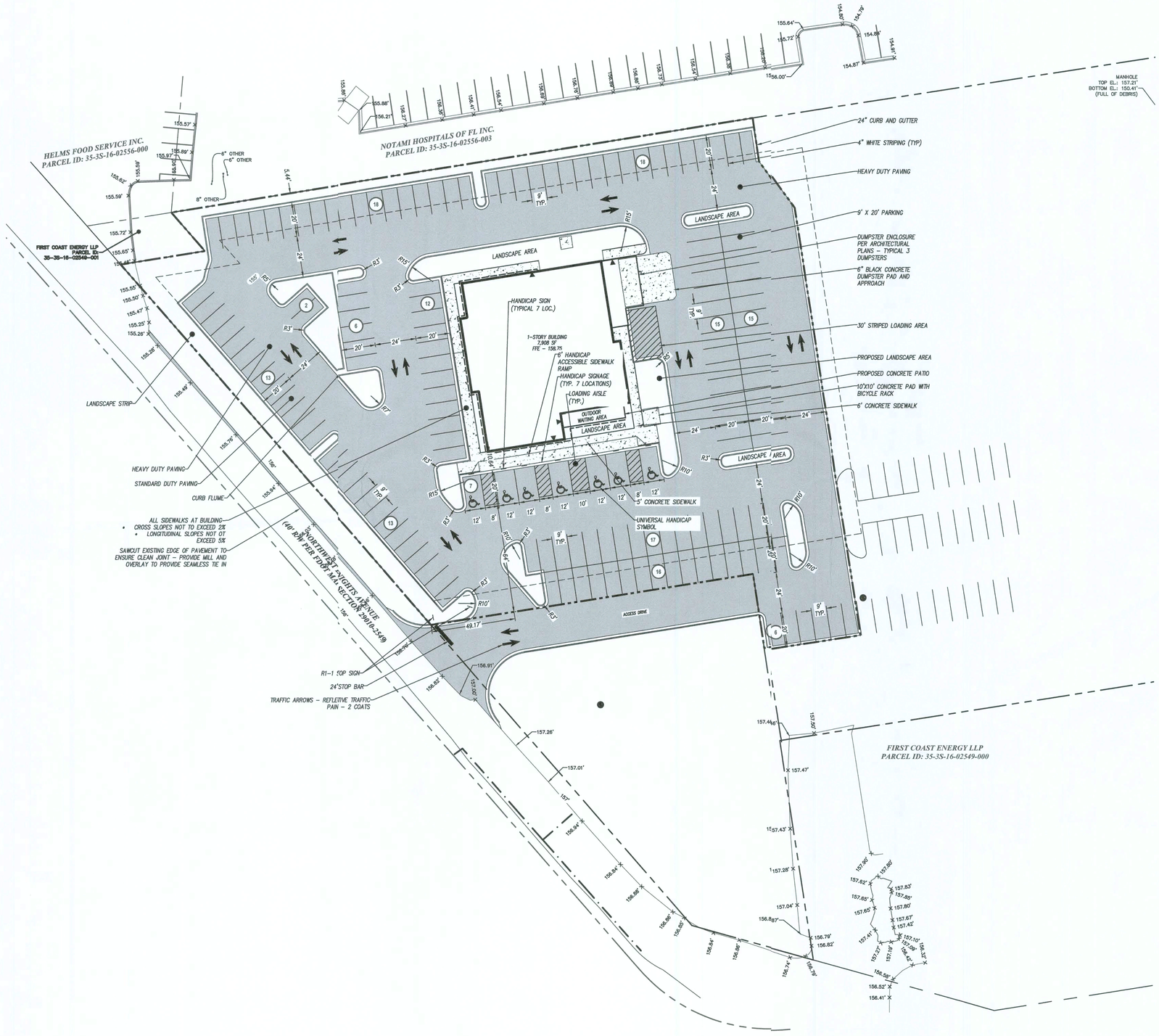
REVISIONS:	APPD.

DATE OF SURVEY: 02/22/2019
DRAWN FRV
CHECKED: HAK
REVISION:
FILE: IN02ALTAX.dwg

PROJECT NUMBER: IN5E0012

SHEET NO. 1 OF 1

MAP OF SURVEY



SITE PLAN NOTES

SITE ADDRESS: 117 NW KNIGHTS AVE, LAKE CITY, FL

ZONING: CHI – COMMERCIAL, HIGHWAY INTERCHANGE

SITE: TOTAL SITE AREA = 1.995 ACRES
TOTAL DISTURBED AREA: 2.0 ACRES

ZONING SETBACKS:
MINIMUM FRONT SETBACK = 20 FT
MINIMUM REAR SETBACK = 15 FT
MINIMUM SIDE SETBACK = 0 FT
MAXIMUM BUILDING HEIGHT = 70 FT

BUILDING SUMMARY:
FREESTANDING SIT DOWN RESTAURANT – 7,908 SQ.FT.

PARKING SUMMARY:
REQUIRED:
MINIMUM: 1 SPACE PER 3 SEATS – 324 SEATS
TOTAL REQUIRED/ PROVIDED: 108 SPACES /158 SPACES (151 REGULAR + 7 HANDICAPPED)

IMPERVIOUS SURFACE CALCULATIONS:
TOTAL SITE AREA: 86,902 SF (1.995 ACS.)
PROVIDED: 76,292 SF (1.75 ACS.)
PROVIDED: 87.8%

BUILDING HEIGHT: 25'-11"

SITE NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SITE WORK SPECIFICATIONS AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
2. TOPOGRAPHIC BOUNDARY SURVEY, PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY:
EBI SURVEYING
8415 SUNSTATE STREET
TAMPA, FLORIDA 33634
PHONE: 813.886.6080
3. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN TO BUILDINGS ARE TO OUTSIDE FACE OF BUILDING.
4. ALL HANDICAP ACCESSIBLE PARKING SIGNS AND STRIPING SHALL BE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS AND STATE CODE.
5. ALL TRAFFIC SIGNS SHALL CONFORM TO THE UNIFORM TRAFFIC CONTROL MANUAL AND THE LOCAL DEPARTMENT OF TRANSPORTATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO ANY EXISTING IMPROVEMENTS, ONSITE OR OFF SITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, ETC. THE REPAIR MUST BE APPROVED BY THE ENGINEER AND BE EQUAL OR BETTER THAN EXISTING CONDITIONS.
7. SITE LIGHTING SHALL BE INCLUDED IN THE GENERAL CONTRACTOR'S SCOPE OF WORK. ALL LIGHTING POLES, BASES AND FIXTURES WITH LAMPS SHALL BE INSTALLED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR AND SHALL SUPPLY A ONE YEAR WARRANTY CERTIFICATE.
8. CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
9. SITE CONTRACTOR SHALL SUPPLY AS–BUILT PLANS INDICATING ALL CHANGES AND DEVIATIONS.
10. ANY DEVIATION FROM THESE PLANS MAY CAUSE THE WORK TO BE UNACCEPTABLE.
11. ANY UNANTICIPATED CONDITIONS ENCOUNTERED DURING THE CONSTRUCTION PROCESS SHALL BE IDENTIFIED TO THE ENGINEER IMMEDIATELY.
12. ALL CONCRETE SHALL BE 3,000 PSI 28 DAY COMPRESSIVE STRENGTH UNLESS NOTED OTHERWISE.
13. PROJECT SIGNAGE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
14. ALL CURB AND GUTTER SHALL BE 24" UNLESS NOTED OTHERWISE.
15. PARKING LOT STRIPING, IF SHOWN IN THESE PLANS, SHALL BE INCLUDED IN PAVING CONTRACTOR'S SCOPE OF WORK. STRIPING WILL BE ACCORDING TO OWNER'S SPECIFICATIONS UNLESS NOTED OTHERWISE. ALL STRIPING IS TO HAVE TWO (2) COATS OF PAINT (MIN).
16. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDANCE OF ALL WETLANDS AREAS AS ILLUSTRATED IN THE WETLANDS DELINEATION PACKAGE.

30 15 0 30 60

(IN FEET)
1 inch = 30 ft.

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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P: 813 - 323 - 9233
Lic. #: AA - 0003590
W: www.bdgllp.com

TEXAS ROADHOUSE

TEXAS ROADHOUSE
117 NW KNIGHTS AVE.
LAKE CITY, FLORIDA

APPROVED - GATEWAY OVERLAY DISTRICT - PUBLIC WORKS DEPARTMENT - COUNTY - ZONING DEPARTMENT

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SEAL

Arcilitect of Record
Gregg A. Holdsworth, AIA, LEED AP
Fl. Licese # AR0017669

ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

SITE PLAN

SHEET NUMBER

C200

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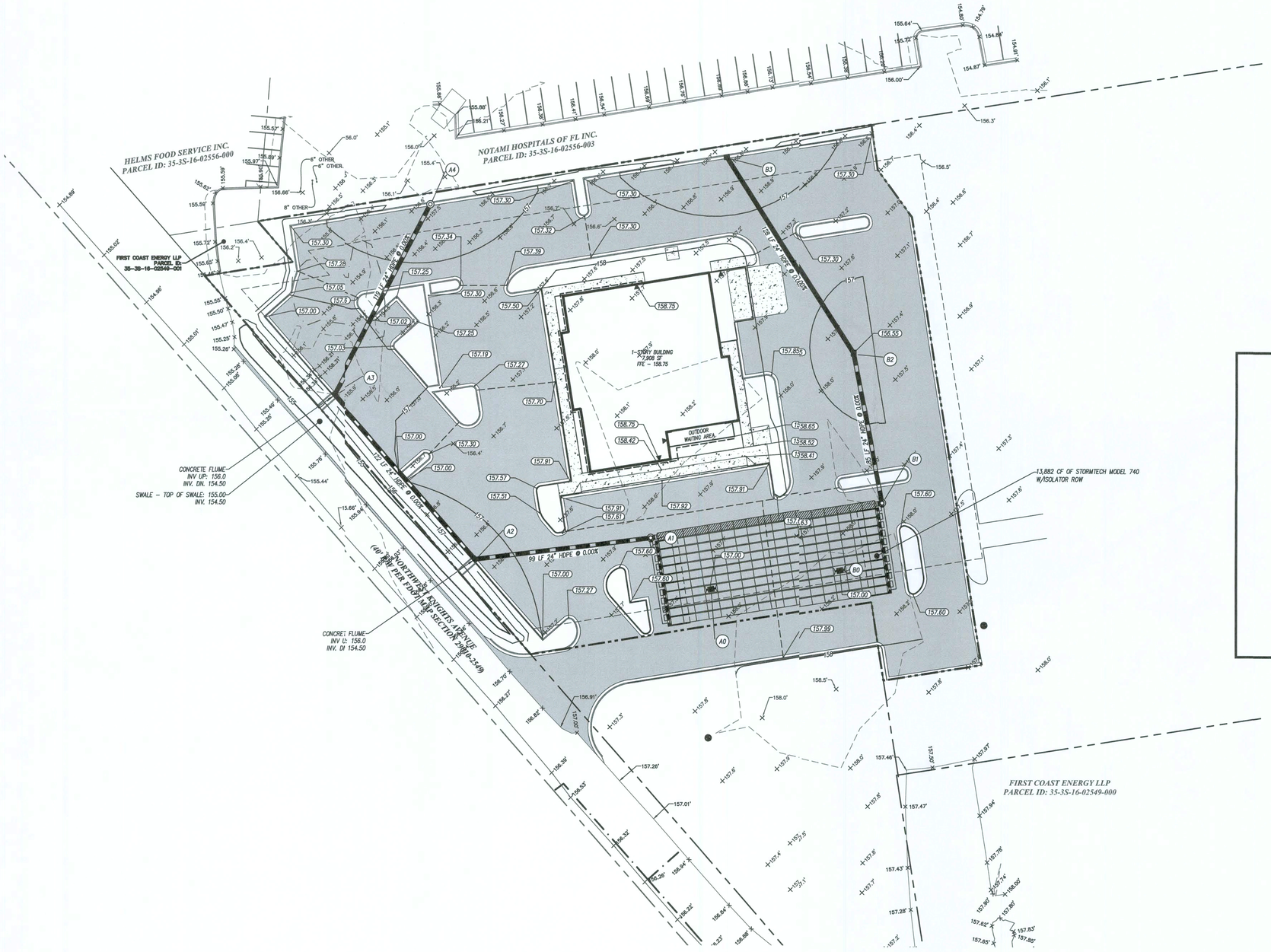
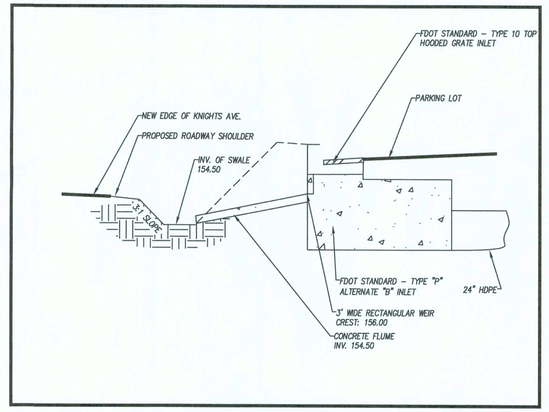
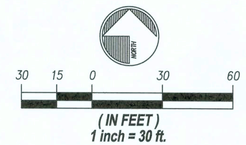


GRADING NOTES:

1. INFORMATION CONCERNING SITE SOIL CONDITIONS WAS PROVIDED BY THE OWNER. PLEASE REFER TO GEOTECHNICAL REPORT PREPARED BY TERRACON CONSULTANTS, REF. NO. E0185120, DATED NOVEMBER 13, 2018.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
3. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR OWN EXPENSE AND SUBMIT IT TO THE OWNER FOR REVIEW.
4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
5. CONTRACTOR SHALL PROVIDE DRAINAGE AWAY FROM THE BUILDINGS.
6. PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
8. IN ALL AREAS WHERE NEW CURB AND GUTTER ARE INSTALLED, REMOVE ALL OLD CURB AND GUTTER AND SAW CUT A STRAIGHT EDGE ALONG ASPHALT.
9. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS.
10. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
11. ALL SLOPES AND DISTURBED AREAS NOT COVERED BY BUILDING OR PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SEEDED, MULCHED, FERTILIZED AND WATERED TO PROVIDE A HEARTY MOWABLE STAND OF GRASS. SMALL ROCKS MUST BE REMOVED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
12. SPOIL FROM FOOTINGS IS THE SITE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR IS TO USE THE SOIL ON SITE OR REMOVE IT FROM THE SITE.
13. EARTHWORK SHALL BE ON AN UNCLASSIFIED BASIS.
14. ANY FILL USED TO INCREASE THE ELEVATION OF THE FLOOR SLAB OR ANY FILL TO BE USED AS BACKFILL, SHALL BE CLEAN, GRANULAR MATERIAL. PRIOR TO THE USE OF ANY GRANULAR FILL, GRADATION ANALYSIS SHALL BE PERFORMED ON REPRESENTATIVE SAMPLES OF THE FILL MATERIAL TO DETERMINE WHETHER THE MATERIAL IS SUITABLE AS FILL. COMPACTED FILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN EIGHT INCHES IN THICKNESS, AT MOISTURE CONTENTS WITHIN THREE PERCENT OPTIMUM, AND COMPACTED TO MINIMUM DENSITY OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD, ASTM D-1557.
15. ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
16. ALL SYSTEM MANHOLES AND PIPES TO BE FLUSHED CLEAN PRIOR TO TURNING OVER TO THE OWNER.
17. ALL PIPE LENGTHS LISTED ARE BASED ON THE HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE AND USED FOR DESIGN. CONTRACTOR TO ENSURE POSITIVE DRAINAGE ACROSS ALL MANHOLES.
18. THE CONTRACTOR IS RESPONSIBLE FOR COMPARING THE STORM SEWER AND SANITARY SEWER CHARTS WITH THE PROFILES FOR THE STORM SEWER AND SANITARY SEWER LINES AND INFORMING THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
19. MAXIMUM CUT OR FILL SLOPES ARE 2 HORIZONTAL : 1 VERTICAL.



STRUCTURES A2 AND A3 – NTS



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APPROVED ZONING DEPARTMENT COLUMBIA COUNTY FLORIDA

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CHECKED BY	Checker

SHEET TITLE

GRADING AND DRAINAGE PLAN

SHEET NUMBIR

C300

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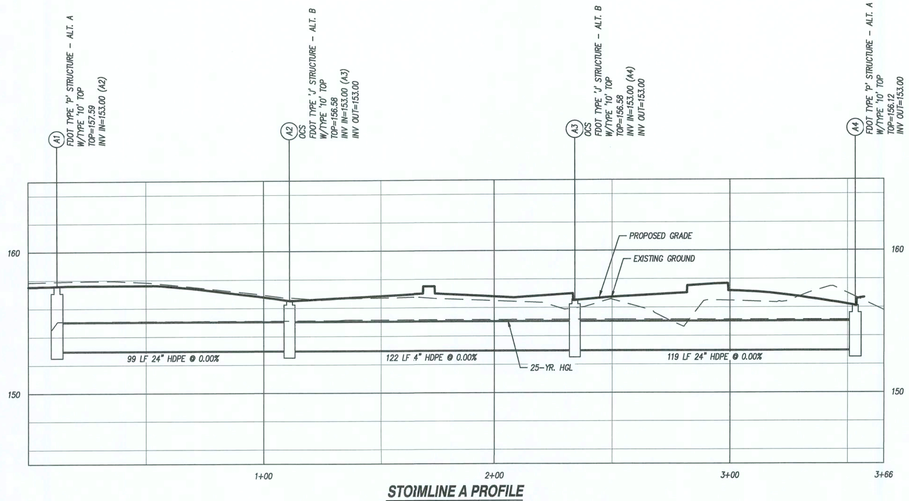
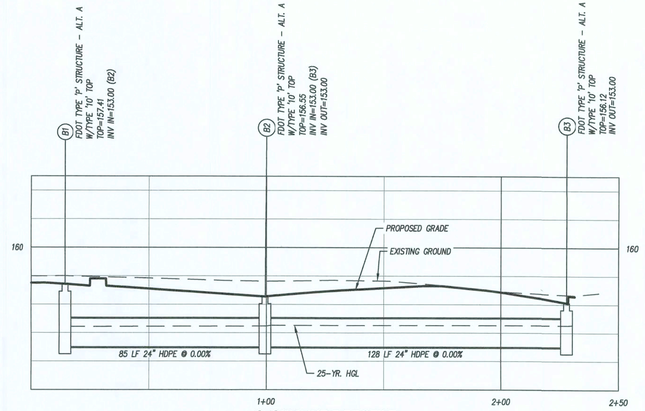


STOIMLINE A PROFILE

HOIZONTAL SCALE: 1"=30'
VRTICAL SCALE: 1"=5'



STORMLINE B PROFILE

HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=5'

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Ttal flw	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr	Total		Incr	Total	Inlet	Syst					Size	Slope	Dn	Up	Dn	Up	Dn	Up	
		(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1	End	85	0.36	0.61	0.95	0.34	0.58	5.0	7.5	9.8	56	0.00	1.80	24	0.00	153.00	153.00	155.00	155.03	157.41	156.55	B2-B1
2	1	128	0.25	0.25	0.95	0.24	0.24	5.0	5.0	11.3	39	0.00	0.86	24	0.00	153.00	153.00	155.06	155.07	156.55	156.12	B3-B2
3	End	2	0.19	0.64	0.95	0.18	0.61	5.0	8.7	9.2	1.67	0.00	4.35	24	0.00	153.00	153.00	155.00	155.00	157.59	156.52	A2-A1
4	3	122	0.20	0.45	0.95	0.19	0.43	5.0	7.3	9.9	4.21	0.00	1.34	24	0.00	153.00	153.00	155.38	155.41	156.52	156.51	A3-A2
5	4	119	0.25	0.25	0.95	0.24	0.24	5.0	5.0	11.3	39	0.00	0.86	24	0.00	153.00	153.00	155.45	155.46	156.51	156.12	A4-A3

Project File: 25-yr.storm.stm | Number of lines: 5 | Run Date: 7/5/2019

NOTES:Intensity = 50.81 / (Inlet time + 4.80) ^ 0.66; Return period =Yrs. 25 ; c = cir e =ellip b = box

Storm Sewers v12.00

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APPROVED - ZONING DEPARTMENT - COLUMBIA COUNTY - FLORIDA - SUBJECT TO FIELD INSPECTION

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Fl. License # AR0017669

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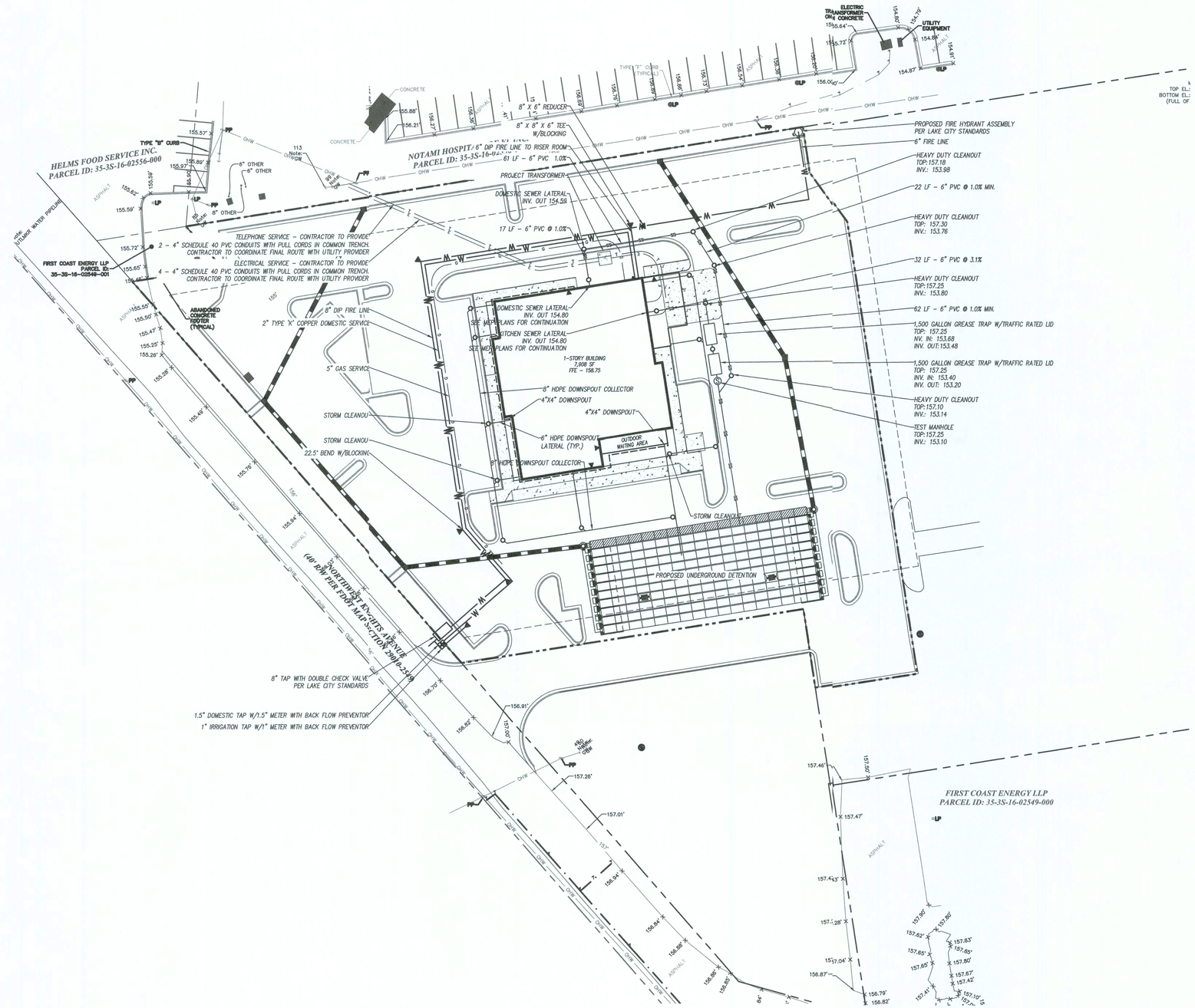
SHEET TITLE

DRAINAGE PROFILES

SHEET NUMBER

C350



UTILITY DIRECTORY

UTILITY	PROVIDER	CONTACT	PHONE
WATER	LAKE CITY PUBLIC UTILITIES	SHASTA PELHAM	(386) 719-5786
SEWER	LAKE CITY PUBLIC UTILITIES	SHASTA PELHAM	(386) 719-5786
GAS	LAKE CITY PUBLIC UTILITIES	SHASTA PELHAM	(386) 719-5786
ELECTRIC	FPL		(800) 226-3545
TELEPHONE/CABLE	COMCAST		(866) 683-1995

UTILITY NOTES

1. STANDARD SPECIFICATIONS AND DETAILS SHALL GOVERN ALL WATER AND SANITARY SEWER MAIN CONSTRUCTION.
2. THE BUILDING CONTRACTOR IS RESPONSIBLE FOR LOCATION, SIZE AND SPECIFICATIONS OF ALL ELECTRICAL TRANSFORMER PADS FROM THE LOCAL POWER COMPANY AND PROVIDING SERVICE FROM THE TRANSFORMER TO THE BUILDING.
3. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS AND IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
4. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OR OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
5. SANITARY SEWER PIPE SHALL BE PVC SDR 26 ASTM 3034 FOR PIPES LESS THAN 18' DEEP. PVC PIPE SHALL BE BELL & SPIGOT TYPE WITH INTEGRAL BELL AND RUBBER GASKETS.
6. SANITARY SEWER PIPE SHALL HAVE A MINIMUM COVER OF 6' FEET. PERCENTAGE OF GRADES LISTED FOR SANITARY SEWER LINES WERE CALCULATED FROM THE CENTERLINE OF ONE MANHOLE TO THE CENTERLINE OF THE NEXT MANHOLE. CONTRACTOR TO ENSURE 0.2' DROP ACROSS MANHOLES, UNLESS NOTED OTHERWISE.
7. SEWER SERVICE LATERALS SHALL BE COORDINATED WITH BUILDING PLANS, ANY DISCREPANCIES SHOULD BE CLARIFIED BEFORE INSTALLATION. SEWER SERVICE LATERALS ARE TO BE PERMANENTLY MARKED ON THE CURB.
8. ALL MANHOLES REQUIRE KOR-N-SEAL OR EQUAL RUBBER BOOTS.
9. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN PAVED AREAS SHALL MATCH FINISH GRADE, AND SHALL HAVE TRAFFIC BEARING LIDS. THE TOP ELEVATION OF MANHOLES CONSTRUCTED IN GRASSED AREAS MUST MATCH FINISHED GRADE (UNLESS OTHERWISE NOTED). ALL EXISTING MANHOLES & UTILITY BOXES SHALL BE ADJUSTED AS NECESSARY TO MATCH PROPOSED GRADING.
10. ALL WATER PIPE 4" DIAMETER AND LARGER SHALL BE DUCTILE IRON PIPE. FITTINGS 4" AND LARGER SHALL BE CAST IRON OR DUCTILE IRON CONFORM WITH AWA STANDARD SPECIFICATIONS.
11. ALL WATER PIPE 3" AND SMALLER SHALL BE TYPE K COPPER OR SDR 21 PER ANSI 16.22.
12. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 36" MINIMUM OVER ALL WATER LINES.
13. CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER SERVICE WITH WATER DEPARTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, PURCHASE AND/OR FEES ASSOCIATED WITH ALL APPARATUS INCLUDING: WATER METERS, BACK FLOW PREVENTERS, POST INDICATOR VALVES, AND ENCLOSURES.
14. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF WATER AND SEWER LINE IS (10') TEN FEET. THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINES IS (18") EIGHTEEN INCHES.
15. ALL FIRE HYDRANTS SHALL CONFORM TO LOCAL REQUIREMENTS.
16. ALL DOMESTIC WATER LEADS SHALL HAVE REDUCED PRESSURE VALVES AS DIRECTED BY THE OWNER'S ARCHITECT, TO BE INSTALLED BY BUILDER DURING HOME CONSTRUCTION.
17. EXISTING UTILITIES LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED FOR LOCATION AND NUMBER BY THE CONTRACTOR.
18. ALL ELECTRIC, TELEPHONE AND GAS LINES, INCLUDING SERVICE LINES, ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANIES SPECIFICATIONS.
19. CONTRACTOR TO COORDINATE INSTALLATION OF ALL UTILITIES BY OTHERS WITH HIS WORK.
20. PRIMARY ELECTRIC SERVICE IS PROVIDED BY THE POWER COMPANY. THIS INCLUDES THE TRANSFORMER AND PAD, TRENCHING, BACKFILL AND COMPACTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND FEES ASSOCIATED WITH POWER SERVICE AS WELL AS SECONDARY SERVICE.
21. GAS LINES ARE INDICATED FOR COORDINATION ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND FEES ASSOCIATED WITH GAS SERVICE.
22. GAS AND UNDERGROUND ELECTRIC LINES ARE SHOWN FOR COORDINATION ONLY. EXACT LOCATION WILL BE FIELD DETERMINED DURING CONSTRUCTION.
23. ALL SANITARY MANHOLES AND PIPE TO BE FLUSHED CLEAN OF DEBRIS PRIOR TO TURN OVER OF SYSTEM TO OWNER.
24. ANY UTILITIES NOT SHOWN THAT REQUIRE RELOCATION OR REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS TO REPORT ALL DISCREPANCIES TO THE ENGINEER IMMEDIATELY UPON DISCOVERY

UTILITY SERVICE NOTES:

SANITARY SEWER LATERALS (DOMESTIC AND KITCHEN) TO BE 6" PVC SDR 26.

DOMESTIC WATER TO BE 2" TYPE "K" COPPER WITH 1.5" METER AND BACKFLOW PREVENTER.

FIRE MAIN TO BE 6" DUCTILE IRON TO RISER ROOM.

GAS LINE TO BE 5" HIGH PRESSURE TO METER. CONTRACTOR TO COORDINATE SERVICE ROUTE WITH LAKE CITY PUBLIC UTILITIES.

ELECTRICAL SERVICE ROUTE TO BE COORDINATED WITH FLORIDA POWER AND LIGHT BY CONTRACTOR. CONTRACTOR TO PROVIDE 4 – 4" SCHEDULE 40 PVC CONDUITS WITH PULL CORDS FROM THE TRANSFORMER TO THE BUILDING.

PHONE/CABLE SERVICE ROUTE TO BE COORDINATED WITH COMCAST BY CONTRACTOR. CONTRACTOR TO PROVIDE 2 – 2" SCHEDULE 40 PVC CONDUITS WITH PULL CORDS FROM THE PEDISTAL/POLE TO THE BUILDING.

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C400

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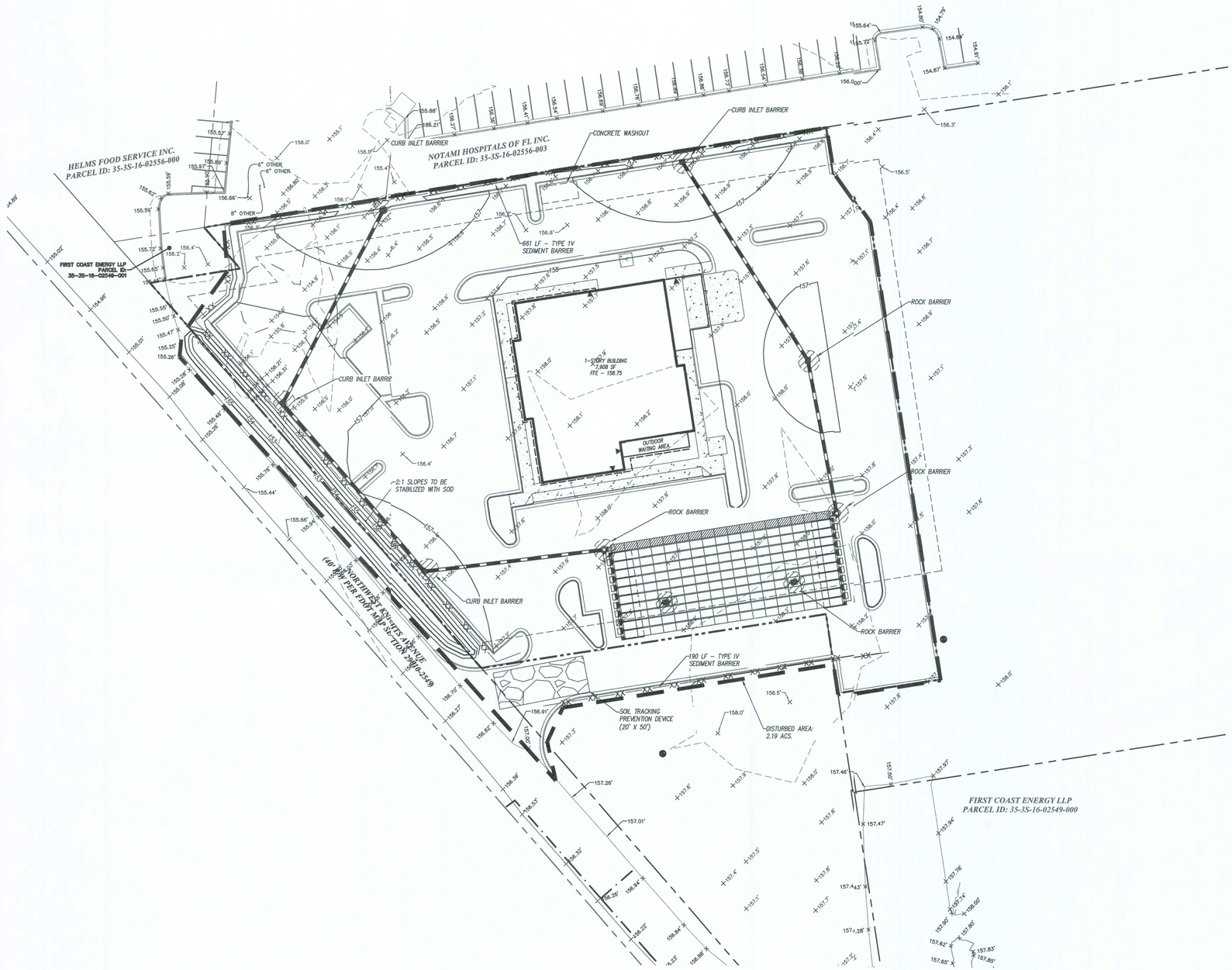

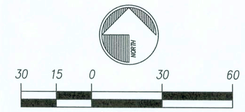

GENERAL NOTES:

1. *THE STORMWATER SYSTEM SHALL BE CONSTRUCTED FIRST. THE CONTRACTOR IS REQUIRED TO FOLLOW THE EROSION CONTROL PLAN FROM BEFORE CONSTRUCTION BEGINS UNTIL AS-BUILTS HAVE BEEN SUBMITTED. IF THE DESIGNED EROSION AND SEDIMENT CONTROL PLAN DOES NOT WORK OR BECOMES INEFFFECTIVE, THE CONTRACTOR SHALL USE THE FLORIDA STORMWATER, EROSION AND SEDIMENT CONTROL INSPERCTOR'S MANUAL TO IMPLEMENT CHANGES THAT WILL WORK.*
2. *CONTRACTOR IS REQUIRED TO PREVENT ANY SEDIMENT TRANSPORT FROM THE PROJECT SITE ONTO ADJACENT PROPERTY. INSTALLATION OF EITHER BALED HAY OR FABRIC FENCE TYPE SILT BARRIER IS ACCEPTABLE. THE BARRIER MUST REMAIN IN PLACE UNTIL UPLAND VEGETATION IS ESTABLISHED.*
3. *BEFORE REMOVING SILT BARRIER, CONTRACTOR SHALL COLLECT AND DISPOSE OF ANY ACCUMULATED SILT.*

ENVIRONMENTAL NOTES:

1. *CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND OR NATIVE VEGETATION AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED IN ACCORDANCE WITH APPLICABLE PLAN DETAIL AND SPECIFICATION SECTIONS.*
2. *BEFORE COMMENCING CONSTRUCTION ACROSS OR ADJACENT TO WETLANDS JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT FENCING SHALL BE CONSIDERED AS THE LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS. WETLAND JURISDICTIONAL AREAS SHOWN ON THE PLANS WHICH ARE ADJACENT TO THE WORK AND NOT PROTECTED BY SILT FENCING SHALL BE CLEARLY DELINEATED ON THE SITE AND ENDURE THROUGHOUT CONSTRUCTION AND BE DISCERNABLE TO CONSTRUCTION PERSONNEL.*
3. *STAKED OR FLOATING SILT SCREENS OR HAY BALES SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING WATER BODIES OR WETLAND AREAS. THESE BARRIERS SHALL BE INSTALLED BEFORE COMMENCING WITH ANY CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL SILT BARRIERS AND FENCING INCLUDING DAILY INSPECTIONS TO CHECK THEIR INTEGRITY. ANY LOOSE OR DAMAGED SILT BARRIERS AND FENCING SHALL BE IMMEDIATELY REPAIRED OR REPLACED AS NECESSARY. ONCE CONSTRUCTION IS COMPLETED AND FINISHED GRADING AND STABILIZATION OF ALL SIDE SLOPES HAS BEEN ACHIEVED, SILT BARRIERS AND FENCING SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE ENGINEER AND BEFORE FINAL ACCEPTANCE.*
4. *ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DOUBLE STAKED SYNTHETIC BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST WATER BODY OR WETLAND AREA TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES. ANY DEWATERING DISCHARGES SHALL MEET STATE WATER QUALITY STANDARDS. EXCAVATION ACROSS ALL WETLANDS SHALL BE ACCOMPLISHED BY STRIPPING THE TOP 10 INCHES OF SURFICIAL SOILS FROM THE FULL WIDTH OF THE AREA TO BE DISTURBED. SURFICIAL SOILS SHALL BE REPLACED LAST AND SHALL BE SPREAD ACROSS THE ENTIRE DISTURBED WETLAND AREA TO HELP PROMOTE NATIVE VEGETABLE GROWTH. SURFICIAL SOILS SHALL NOT BE STOCKPILED IN EXCESS OF TWO WEEKS. FURTHER, ALL ASPECTS OF BACKFILLING, GRADING AND MULCHING SHALL BE COMPLETE WITHIN 30 DAYS OF INITIAL WETLAND IMPACT FOR EACH JURISDICTIONAL AREA.*
5. *TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO WETLANDS ADDITIONALLY, SILT BARRIERS AND FENCING SHALL CONTINUOUSLY AND FULLY ENCIRCLE ALL STOCKPILES WHICH WILL REMAIN FOR LONGER THAN 24 HOURS TO CONTAIN MATERIALS WITHIN A REASONABLY CONFINED AREA.*
6. *BANKS SHALL BE PROTECTED FROM EROSION OR COLLAPSE DURING CONSTRUCTION. BANK PROTECTION MATERIAL SHALL BE CAREFULLY PLACED FROM THE BANK AND NOT DUMPED FROM ABOVE IN AN UNCONTROLLED MANNER. SANDBAGS SHALL BE USED FOR PROTECTING THE BANKS. UPON COMPLETION OF CONSTRUCTION, BANKS AND WATERWAYS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONFIGURATION AND PROTECTED FROM EROSION.*
7. *ALL DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF PAVEMENT OR VEGETATION. WATERING, APPLICATION OF CALCIUM CHLORIDE OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT PAVEMENT, GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INCORPORATED AS SOON AS POSSIBLE.*
8. *THE CONTRACTOR SHALL NOT REMOVE ANY TREES WITHOUT COORDINATING SUCH REMOVAL WITH THE ENGINEER. IF ANY TREES ARE REMOVED IN WETLAND JURISDICTIONAL, OR NATIVE VEGETATION AREAS WITHOUT PROPER AUTHORIZATION, CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A DETAILED RESTORATION AND/OR MITIGATION PLAN, SUBMITTING PLAN TO AND OBTAINING APPROVAL FROM FDEP, WATER MANAGEMENT DISTRICT, COUNTY, OWNER AND ENGINEER, AND COMPLETING ANY MONITORING AND MAINTENANCE REQUIREMENTS IMPOSED AS A RESULT OF TREE REMOVAL.*
9. *CONTRACTOR IS RESPONSIBLE FOR COORDINATING VEGETATION REMOVAL PERMITS WITH FDEP, WATER MANAGEMENT DISTRICT, CITY, OWNER AND ENGINEER BEFORE CONSTRUCTION.*
10. *SELECTIVE CLEARING AND GRUBBING INCLUDES REMOVAL OF VEGETATION AND PAVEMENT ONLY WHEN REQUIRED FOR INSTALLATION OF NEW UTILITIES OR TO ACCOMMODATE SUBSTANTIAL GRADE CHANGES.*
11. *UPON COMPLETION OF ROUGH GRADING OF THE DRAINAGE DETENTION AREA, ALL BACKSLOPES SHALL BE IMMEDIATELY STABILIZED WITH SOD TO PREVENT SILTATION INTO THE WETLANDS FROM THE OUTSIDE SLOPES.*

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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APPROVED ZONING DEPARTMENT COLUMBIA COUNTY FLORIDA

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SEAL

Architect of Record
Gregg A. Holdsworth, AIA, LEED AP
FL License# AR0017669

ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN

SHEET NUMBER

C500

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OWNER'S REQUIREMENTS

SITE DESCRIPTION

COUNTY:	COLUMBIA		
SECTION/TOWNSHIP/RANGE:	35 3S 16E		
COUNTY PARCEL NO.:	35-3S-16-020545-000		
LATITUDE & LONGITUDE:	30.181111 & 82.687500		
STREET ADDRESS:	117 NW KNIGHTS AVENUE		
PROJECT AREA:	1.995 ACRES		
SITE LOCATION MAP:	SEE COVER SHEET		
SITE DEVELOPMENT DATA:			
TOTAL PARCEL AREA:	86,902 S.F.	1.995 ACRES	
TOTAL DRAINAGE BASIN BOUNDARY:	86,902 S.F.	1.995 ACRES	100.00%
PROPOSED IMPERVIOUS AREA:	76,292 S.F.	1.75 ACRES	87.72%
PROPOSED PERVIOUS AREA:	36,628 S.F.	0.84 ACRES	12.30%
PROPOSED DETENTION POND AREA: (UNDERGROUND)	12,500 S.F.	0.29 ACRES	N/A

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND HAY BALED AS REQUIRED
3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN
4. CONSTRUCT SEDIMENTATION BASIN
5. CONTINUE CLEARING AND GRUBBING
6. STOCK PILE TOP SOIL IF REQUIRED
7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED
8. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.
10. APPLY BASE TO PAVEMENT AREAS
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING
12. COMPLETE FINAL PAVING
13. REMOVE ACCUMULATED SEDIMENT FROM BASINS
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.

NOTE VERTICAL CONSTRUCTION OF THE BUILDING WILL BE TAKING PLACE DURING ALL THE SEQUENCE STEPS LISTED ABOVE.

TIMING OF CONTROLS

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. DRAWING SWPP-1 HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

STORM WATER MANAGEMENT

STORM WATER DRAINAGE WILL BE PROVIDED BY CURB AND GUTTER STORM SEWER, CURB INLETS AND CATCH BASINS FOR THE DEVELOPED AREAS, AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE. WHEN WHERE PRACTICAL, THE TEMPORARY SEDIMENT BASIN WILL BE IN THE LOCATION OF THE PERMANENT RETENTION BASIN. WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM SEDIMENT BASIN, AND THE AREAS ON THE SIDE OF THE BASIN WILL BE PLANTED WITH VEGETATION. THE WET DETENTION SYSTEM IS DESIGNED WITH A 21 DAY RESIDENCY. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING.

REFER TO "CONTRACTORS REQUIREMENTS" FOR THE TIMING OF CONTROL / MEASURES.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

D.E.P. DREDGE/FILL PERMIT _____
C.O.E. DREDGE/FILL PERMIT _____
S.J.R.W.M.D. M.S.S.W. PERMIT _____

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: _____

TITLE: _____
CORPORATE OFFICER, GENERAL PARTNER, PROPRIETOR, EXECUTIVE OFFICER, OR RANKING ELECTED OFFICIAL.

DATE: _____

CONTRACTOR'S REQUIREMENTS

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN OF THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURED OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES

1. STRAW BALE BARRIER: STRAW BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
   C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
   D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
2. FILER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLOWING LIMITATIONS:
   A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
   B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
3. BRISH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL LIP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO AN ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.
10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED) OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
11. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP IS USUALLY INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATION:
   A. THE SEDIMENT TRAP MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF FLOW AT DESIGN CAPACITY OF THE OUTLET WILL EXCEED THE PERMISSIBLE VELOCITY OF THE RECEIVING CHANNEL OR AREA.
4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED AREAS AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

Concrete Fertilizers Wood
Asphalt Petroleum Based Products Masonry Blocks
Tar Cleaning Solvents Roofing Materials
Detergents Paints Metal Studs

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURE.
* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
* MANUFACTURER'S RECOMMENDATION FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESALABLE.
* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ADSORBENT (i.e. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE / INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.
* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM SHALL BE COMPLETED BY THE INSPECTOR. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND ANY EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.
* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

* IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:
* WATER FROM WATER LINE FLUSHING
* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZED THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE	BUSINESS NAME AND ADDRESS OF CONTRACTOR AND ALL SUBS	RESPONSIBLE FOR / DUTIES
		GENERAL CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR

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architect of Record
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PROJECT INFORMATION BLOCK

JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

S.W.P.P.P. NOTES

SHEET NUMBER

C501

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STORM WATER POLLUTION PRVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF

A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR: _____ DATE:

INSPECTOR'S QUALIFICATIONS:

_____
_____
_____
_____
_____

DAYS SINCE LAST RAINFALL:_____ AMOUNT OF LAST RAINFALL _____ INCHES

STABILIZATIONS MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED:

_____
_____
_____
_____
_____

TO BE PERFORMED BY:_____ ON OR BEFORE:_____

STORM WATER POLLUTION PRVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

STRUCTURAL CONTROLS

DATE: _____

EARTH DIKES / SWALES

DIKE OR SWALE	FROM	TO	IS DIKE / SWALE STABILIZED ?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE / SWALE:

_____
_____
_____
_____
_____

TO BE PERFORMED BY: _____ ON OR BEFORE:_____

CATCH BASIN / CURB INLET / OUTFALL TURBIDITY CONTROLS

STRUCTURE / OUTFALL	ARE TURBIDITY CONTROLS IN PLACE?	ANY EVIDENCE OF CLOGGING / WASHOUT OR BYPASSING?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING?	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL?

MAINTENANCE REQUIRED FOR CATCH BASIN / CURB INLETS / OUTFALLS TURBIDITY CONTROLS:

_____
_____
_____
_____
_____

STORM WATER POLLUTION PRVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT?	CONDITION OF OUTFALL FORM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN:

_____
_____
_____
_____
_____

TO BE PERFORMED BY: _____ ON OR BEFORE:_____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

_____
_____
_____
_____
_____

TO BE PERFORMED BY: _____ ON OR BEFORE:_____

STORM WATER POLLUTION PRVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:

_____
_____
_____
_____
_____
_____
_____
_____
_____

REASONS FOR CHANGES:

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE:_____

DATE:_____

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APPROVED - COLUMBIA COUNTY - PLANNING & ZONING DEPARTMENT

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CHECKED BY:	Checker

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S.W.P.P.P.
NOTES

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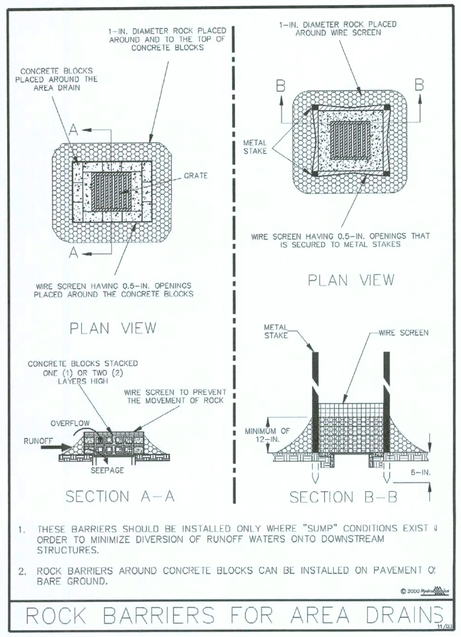


Figure V-13: Illustration of Rock Barriers around Area Drains

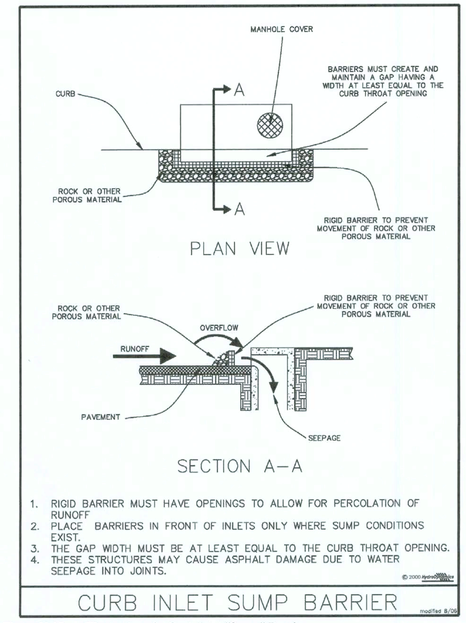


Figure V-15: Illustration of a Curb Inlet "Sump" Barrier

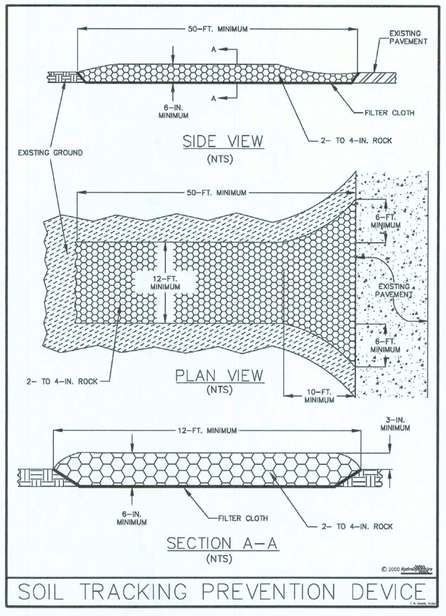


Figure V-19: Illustration of a Soil Tracking Prevention Device

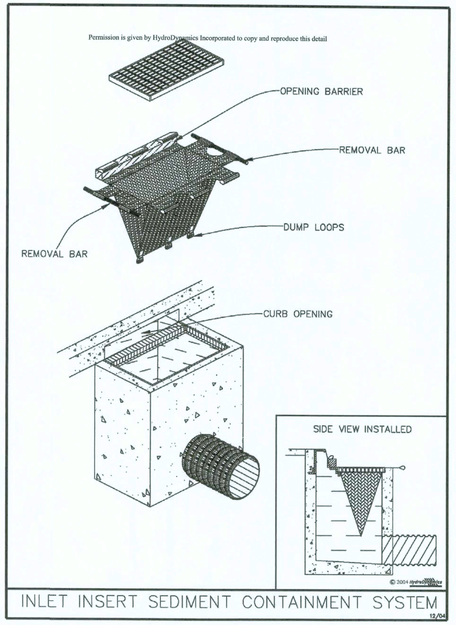


Figure V-18: Illustration of an Inlet Insert Sediment Containment System

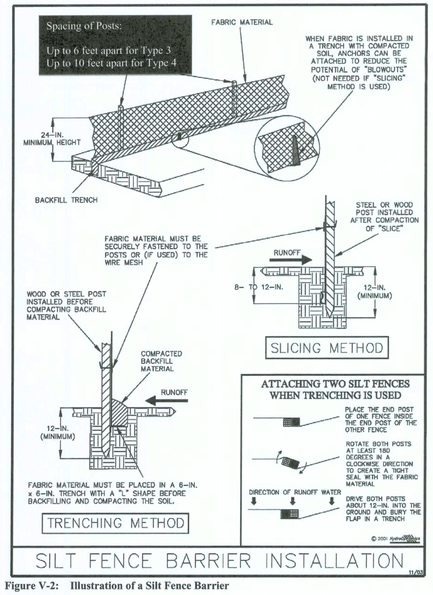


Figure V-2: Illustration of a Silt Fence Barrier

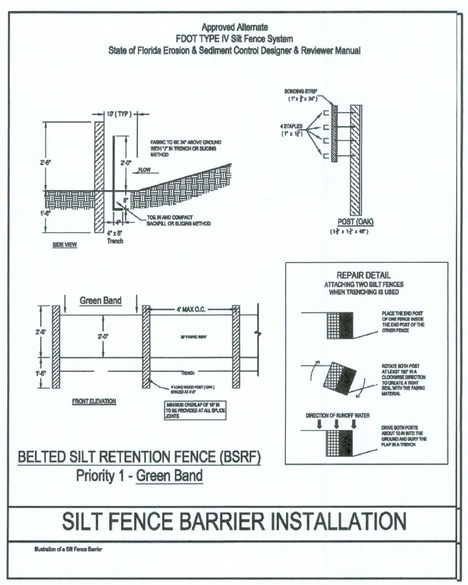
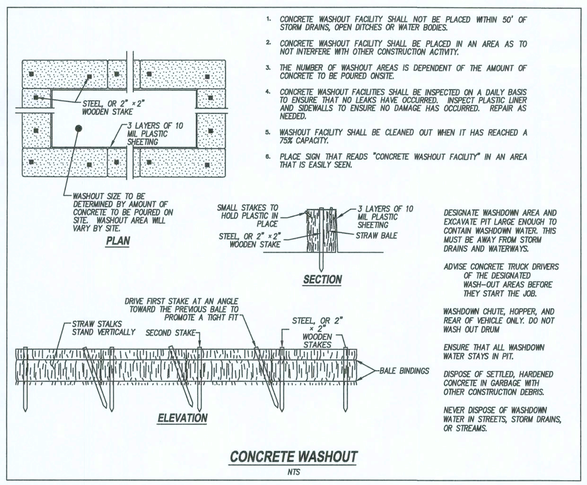


Figure V-4: Illustration of Belted Silt Retention Fence – Type IV Priority 1



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SHEET TITLE

EROSION CONTROL DETAILS

SHEET NUMBER

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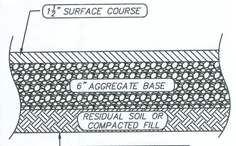
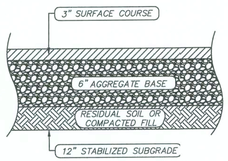


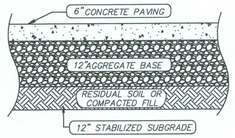
STANDARD DUTY PAVING

N.T.S.



HEAVY DUTY PAVING

N.T.S.

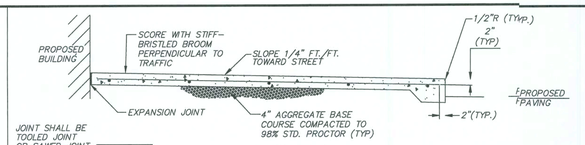


STANDARD DUTY CONCRETE PAVING

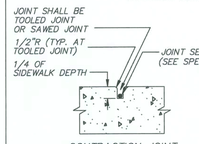
N.T.S.

- CRUSHED CONCRETE OR LIMESTONE BASE SHOULD BE COMPACTED TO 100 PERCENT OF THE MAXIMM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPACTION TEST (ASTM 1557, METHOD D).
- ASPHALT SURFACE COURSE SHALL BE SP 9.5 MM MEET OR EXCEED THE REQUIREMENTS OF ASPHALTIC CONCRETE.
- PAVEMENT DESIGN IS BASED ON A 20 YEAR PAVEMENT LIFE, CALIFORNIA BEARING RATIO (CBR) VALUE OF 30, AND SUBGRADE MODULUS (k) OF 125 PSI/INCH. SUBGRADE SHOULD MEET THESE REQUIREMENTS AS A MINIMUM.
- THIS PAVEMENT DETAIL IS BASED ON THE GEOTECHNICAL REPORT FOR TEXAS ROADHOUSE – LAKE CITY, FL, BY TERRACON, DATED NOVEMBER 13, 2018. THE CONTRACTOR SHOULD CLARIFY ANY DISCREPENCY BETWEEN THE GEOTECHNICAL REPORT AND THIS DETAIL PRIOR TO BIDDING OR CONSTUCTING.

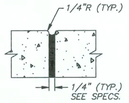
PAVING SPECIFICATION



SECTION A–A



CONTRACTION JOINT



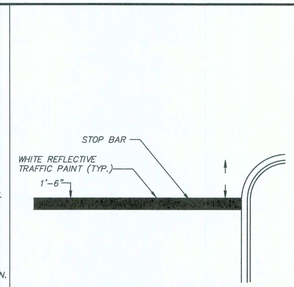
EXPANSION JOINT

NOTES:

1. WHERE REQUIRED REINFORCEMENT WILL BE No. 3 BARS 24" O.C. EACH WAY (MAX. SPACING), OR 6 X 6 –W1.4 X W1.4 WWF CONCRETE TO BE 4", 2500 P.S.I. P.C. CONCRETE.
2. TOOLED CONTRACTION JOINT IN FRESH CONCRETE TO BE GROOVED JOINT 1/4 OF CONCRETE DEPTH MIN. WITH 1/2" MIN. RADIUS ON EXPOSED EDGES. SEE SECTION 02520–3.03 AND 02520–3.03 OF SPECIFICATIONS.
3. SAWED CONTRACTION JOINT TO BE 1/4 OF CONCRETE DEPTH MIN. AND FILLED WITH CONTINUOUS LENGTHS OF JOINT SEALANT AS SPECIFIED IN SECTION 02520–2.01 OF THE SPECIFICATIONS.
4. PATHFINDER DETECTABLE WARNING SURFACE AVAILABLE FROM CARSONITE INTERNATIONAL, CARSON CITY, NV (800) 648–7974 3' WIDE – DOT 12"x12"x1/4" OVERLAY
5. CONTRACTION JOINT TYPICAL EXCEPT WHERE NOTED AS EXPANSION JOINT.

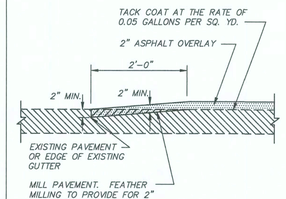
CONCRETE SIDEWALK @ BUILDING

N.T.S.



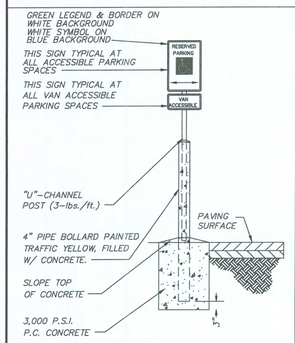
STOP BAR

N.T.S.



ASPHALT OVERLAY

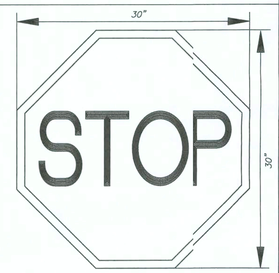
N.T.S.



CONCRETE BOLLARD AROUND POST IS NECESSARY WHERE SIGN IS TO BE WITHIN 2' OF TRAVEL LANE OR PARKING SPACE.

VAN ACCESSIBLE PARKING SIGN

N.T.S.

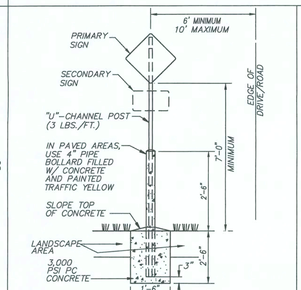


R1–1

SIGN CRITERIA
BACKGROUND: RED
LETTERING: WHITE
BORDER: WHITE
REFERENCE: MUTCD

"STOP" SIGN

N.T.S.



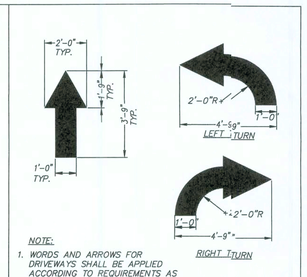
NOTES:
SIGN SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND ALL FEDERAL, STATE, AND LOCAL CODES.

CONCRETE BOLLARD AROUND POST IS NECESSARY WHERE SIGN IS TO BE WITHIN 2' OF TRAVEL LANE OR PARKING SPACE.

SIGN BASE IN LANDSCAPE AREA

N.T.S.

S4B

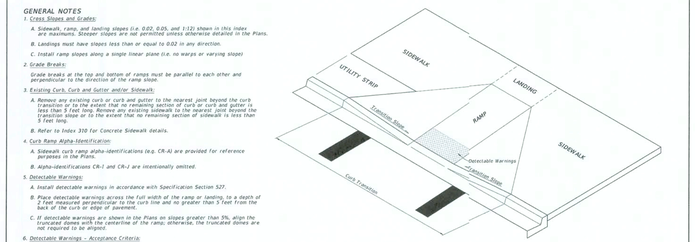


NOTE:

1. WORDS AND ARROWS FOR DRIVEWAYS SHALL BE APPLIED ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B–20 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS
2. ALL TRAFFIC FLOW ARROWS TO BE SOLID WHITE REFLECTIVE TRAFFIC PAINT OR MEET LOCAL REQUIREMENTS.

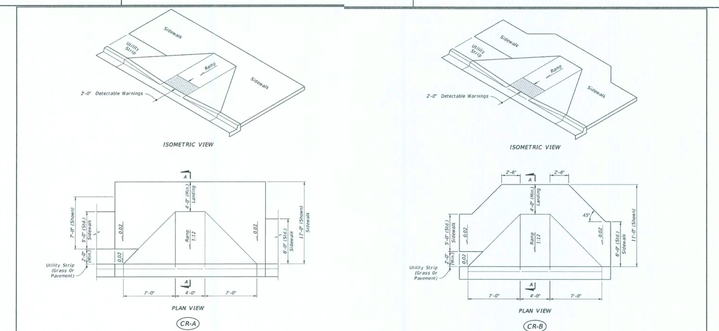
PARKING LOT FLOW ARROW

N.T.S.



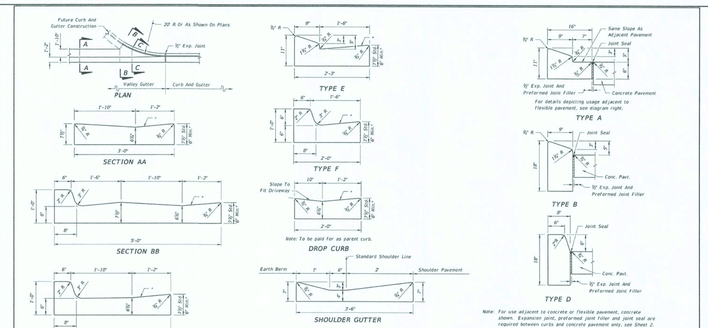
CURB RAMPNOMENCLATURE

LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	DETECTABLE WARNINGSAND SIDEWALK CURB RAMPS	INDEX NO. 304	SHEET NO. 1 of 8



SIDEWALK CURB RAMPS CR–A AND CR–B

LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX NO. 304	SHEET NO. 2 of 8



* When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The thickness at the lip shall be 6", unless otherwise shown on plans.

Rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.

For use adjacent to concrete or flexible pavement. For details depicting slope adjacent to flexible pavement, see Sheet 2. Expansion joint, preformed joint filler and joint seal are required between curb & gutter and concrete pavement only, see Sheet 2.

CONCRETE CURB AND GUTTER

LAST REVISION 07/01/00	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	CURB & CURB AND GUTTER	INDEX NO. 300	SHEET NO. 1 of 2

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bdg architects

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Lic. #: AA - 0003590
W: www.bdgllp.com

TEXAS ROADHOUSE

117 NW KNIGHTS AVE.
LAKE CITY, FLORIDA

ZONING DEPARTMENT APPROVED – PENDING COUNTY APPROVAL

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SEAL

Architect of Record
Gregg A. Hildsworth, AIA, LEED AP
FL License # AR0017669

ISSUE	BY	DATE	DESCRIPTION

PROJECT NFORMATION BLOCK

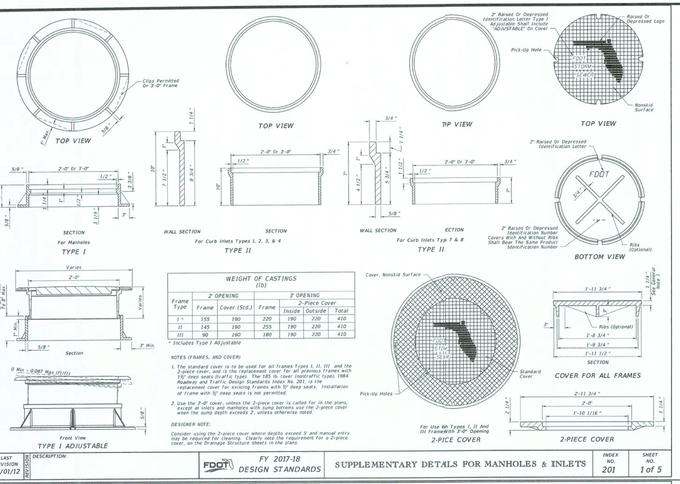
JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

C901



WEIGHT OF CASTINGS (lb)

Frame Type	2" OPENING Frame	2" OPENING Cover (Solid)	2" OPENING 2-Piece Cover Frame	2" OPENING 2-Piece Cover Inside	2" OPENING 2-Piece Cover Outside	2" OPENING 2-Piece Cover Total
I *	155	190	220	190	220	410
II	145	190	255	190	220	410
III	90	190	180	190	220	410

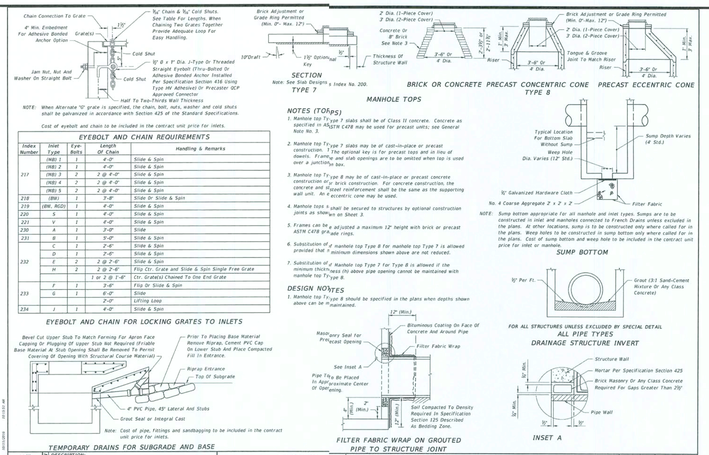
* Includes Type I Adjustable

NOTES (FRAMES, AND COVER)

1. The standard cover is to be used for all frames Types I, II, III, and the 2-piece cover, and is the replacement cover for all previous frames with a 2" opening. The design is in accordance with the current AASHTO, 1994 Roadway and Traffic Design Standards Index No. 201, is the replacement cover for existing frames with 5" deep seats. Installation at frame with 5" deep seats is not permitted.
2. Use the 2-0" cover, unless the 2-piece cover is called for in the plans, except at inlets and manholes with sump bottoms use the 2-piece cover when the sump depth exceeds 2', unless otherwise noted.

DESIGNER NOTE:

Consider using the 2-piece cover where depths exceed 5' and manual entry may be required for cleaning. Clearly note the requirement for a 2-piece cover, on the Drainage Structure sheets in the plans.



NOTE: When Alternate "G" grate is specified, the chain, bolt, nuts, washer and cold shots shall be galvanize in accordance with Section 425 of the Standard Specifications.

Cost of eyebolt and chain to be included in the contract unit price for inlets.

EYEBOLT AND CHAIN REQUIREMENTS

Index Number	Inlet Type	Eyes Bolts	Length Of Chain	Handling & Remarks
211	(NB) 1	1	4'-0"	Slide & Spin
	(NB) 2	1	4'-0"	Slide & Spin
	(NB) 3	2	2 @ 4'-0"	Slide & Spin
	(NB) 4	2	2 @ 4'-0"	Slide & Spin
	(NB) 5	2	2 @ 4'-0"	Slide & Spin
218	(BB)	1	7'-0"	Slide, Or Slide & Spin
219	(BW, RCD)	1	4'-0"	Slide & Spin
220	S	1	4'-0"	Slide & Spin
221	V	1	4'-0"	Slide & Spin
230	A	2	2'-0"	Slide
231	B	1	5'-0"	Slide & Spin
	C	1	3'-0"	Slide & Spin
	D	1	7'-0"	Slide & Spin
232	E	2	2 @ 2'-0"	Slide & Spin
	H	2	2 @ 2'-0"	Slip On, Grate and Slide & Spin Single Free Grate
		1	1 or 2 @ 1'-6"	Ctr. Grate(s) Chained To One End Grate
233	F	1	3'-0"	Slip Or Slide & Spin
	G	1	6'-0"	Slide
234	I	1	2'-0"	Lifting Loop
	J	1	4'-0"	Slide & Spin

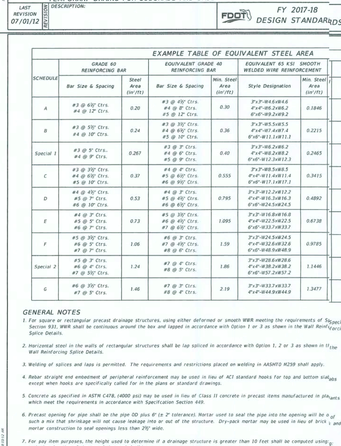
EYEBOLT AND CHAIN FOR LOCKING GRATES TO INLETS

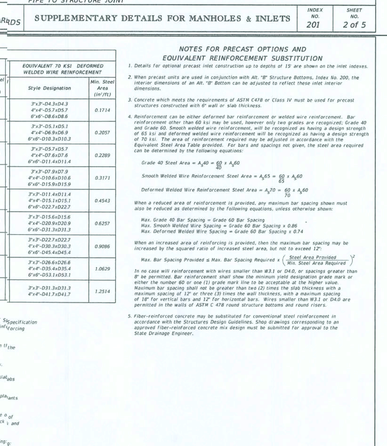
NOTES (TOPS)

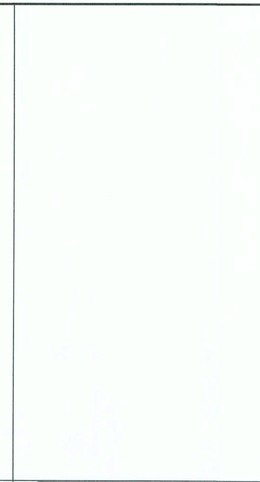
1. Manhole top Type 1 and Type 7 slabs shall be of Class II concrete. Concrete as specified in ASTM C478 may be used for precast units, see General Note No. 3.
2. Manhole top Type 1 and Type 7 slabs may be of cast-in-place or precast construction. The optional key is for precast tops and in lieu of dowels. Frame and slab openings are to be omitted when top is used over a junction box.
3. Manhole top Type 8 may be of cast-in-place or precast concrete construction or of brick construction. For concrete construction, the concrete and required reinforcement shall be the same as the supporting wall unit. An eccentric cone may be used.
4. Manhole tops shall be structured by sufficient construction joints as shown on Sheet 3.
5. Frames can be adjusted a maximum 12" height with brick or precast ASTM C478 grade rings.
6. Substitution of a manhole top Type 8 for manhole top Type 7 is allowed provided that minimum dimensions shown above are not reduced.
7. Substitution of a manhole top Type 7 for Type 8 is allowed if the minimum thickness shown in the above pipe opening cannot be maintained with manhole top Type 8.

DESIGN NOTES

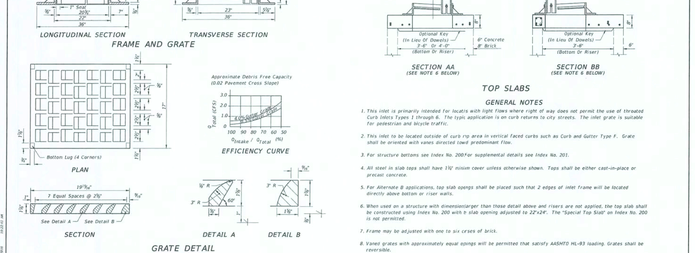
1. Manhole top Type 8 should be specified in the plans when depths shown above can be maintained.







NOTE: Sump bottom appropriate for all manhole and inlet types. Sumps are to be constructed in inlet and manholes connected to French Drains unless excluded in the plans. At other locations, sump is to be constructed only where called for in the plans. Weep holes to be constructed in sump bottom only where called for in the plans. Cost of sump bottom and weep hole to be included in the contract unit price for inlet or manhole.



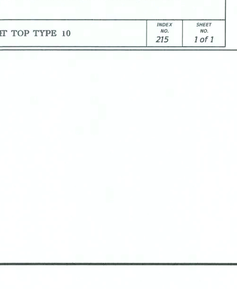
1. One or more types of joints may be used in a single structure, except brick wall structure. Brick wall construction is permitted at circular units only.
2. All grouted joints are to have a maximum thickness of 1".
3. Keyways are to be a minimum of 1½" deep.
4. Joint dowels are to be #4 bars, 12" long with a minimum of 6 bars per joint. Dowels are permitted in lieu of keyways for joints in walls or slabs, spacing for rectangular structures. Bars may be either Adhesive Bonded Dowels in accordance with Specification Section 416, or placed approximately 6" into fresh concrete leaving sufficient projection for the joint and bonded with epoxy grout. Dowels may be substituted for the dowel bar in accordance with the equivalent steel area table on Sheet 4.
5. Minimum cover on dowel reinforcing bars is 2" to outside face of structure.
6. Joints between wall segments and between wall segments and top or bottom slabs may be sealed either by preformed plastic gasket material using the procedures given in Section 430 of the Specifications or by non-shrink grout, in accordance with Section 934 of the Specifications.
7. Insert products approved by the Engineer may be used in lieu of dowel embedment.

OPTIONAL CONSTRUCTION JOINTS

NOTE: h may be less than 6" when applied to the bottom, but not for inset segments at finish grade elevation.

COPARATIVE SIDE VIEWS

MINIMUM DIMENSIGIS FOR BOX AND RISER SEGMENTS



EXAMPLE TABLE OF EQUIVALENT STEEL AREA

SCHEDULE	GRADE 40 REINFORCING BAR Bar Size & Spacing	Steel Area (in²/ft)	EQUIVALENT GRADE 40 REINFORCING BAR Bar Size & Spacing	Min. Steel (in²/ft)	EQUIVALENT 45 KSI SMOOTH WELDED WIRE REINFORCEMENT Style Designation	Min. Steel (in²/ft)	EQUIVALENT 70 KSI DEFORMED WELDED WIRE REINFORCEMENT Style Designation	Min. Steel Area (in²/ft)
A	#3 @ 6½" Ctrs. #4 @ 12" Ctrs.	0.20	#3 @ 6½" Ctrs. #4 @ 8" Ctrs. #5 @ 12" Ctrs.	0.30	3"x3"-W4.6xW4.6 4"x4"-W6.2xW6.2 4"x6"-W9.2xW9.2	0.1846	3"x3"-D4.5xD4.5 4"x4"-D5.7xD5.7 4"x6"-D8.6xD8.6	0.1714
B	#3 @ 5½" Ctrs. #4 @ 10" Ctrs.	0.24	#3 @ 5½" Ctrs. #4 @ 6½" Ctrs. #5 @ 10" Ctrs.	0.36	3"x3"-W5.5xW5.5 4"x4"-W7.4xW7.4 6"x6"-W11.1xW11.1	0.2215	3"x3"-D5.1xD5.1 4"x4"-D6.9xD6.9 6"x6"-D10.3xD10.3	0.2057
Special 1	#3 @ 5" Ctrs., #4 @ 9" Ctrs.	0.267	#3 @ 5" Ctrs. #4 @ 6" Ctrs. #5 @ 9" Ctrs.	0.40	3"x3"-W6.2xW6.2 4"x4"-W8.2xW8.2 6"x6"-W12.3xW12.3	0.2465	3"x3"-D5.7xD5.7 4"x4"-D7.6xD7.6 6"x6"-D11.4xD11.4	0.2289
C	#3 @ 3½" Ctrs. #4 @ 6½" Ctrs. #5 @ 10" Ctrs.	0.37	#3 @ 3" Ctrs. #4 @ 4" Ctrs. #5 @ 6½" Ctrs. #6 @ 9" Ctrs.	0.555	3"x3"-W8.5xW8.5 4"x4"-W11.4xW11.4 6"x6"-W17.1xW17.1	0.3413	3"x3"-D7.0xD7.0 4"x4"-D10.6xD10.6 6"x6"-D15.9xD15.9	0.3171
D	#4 @ 6½" Ctrs. #5 @ 9" Ctrs. #6 @ 12" Ctrs.	0.53	#4 @ 3" Ctrs. #5 @ 4½" Ctrs. #6 @ 6½" Ctrs.	0.795	3"x3"-W12.2xW12.2 4"x4"-W16.3xW16.3 6"x6"-W24.5xW24.5	0.4892	3"x3"-D10.1xD10.1 4"x4"-D15.1xD15.1 6"x6"-D22.7xD22.7	0.4543
E	#4 @ 5" Ctrs. #5 @ 7" Ctrs. #6 @ 9" Ctrs.	0.73	#5 @ 3½" Ctrs. #6 @ 4½" Ctrs. #7 @ 6½" Ctrs.	1.095	3"x3"-W16.8xW16.8 4"x4"-W22.5xW22.5 6"x6"-W33.7xW33.7	0.6738	3"x3"-D13.9xD13.9 4"x4"-D20.9xD20.9 6"x6"-D31.3xD31.3	0.6257
F	#5 @ 7½" Ctrs. #6 @ 9" Ctrs. #7 @ 7" Ctrs.	1.06	#6 @ 3" Ctrs. #7 @ 4½" Ctrs. #8 @ 6" Ctrs.	1.59	3"x3"-W24.5xW24.5 4"x4"-W32.6xW32.6 6"x6"-W48.9xW48.9	0.9795	3"x3"-D22.7xD22.7 4"x4"-D30.3xD30.3 6"x6"-D45.4xD45.4	0.9086
Special 2	#5 @ 7" Ctrs. #6 @ 8½" Ctrs. #7 @ 10½" Ctrs.	1.24	#6 @ 2½" Ctrs. #7 @ 4" Ctrs. #8 @ 5½" Ctrs.	1.86	3"x3"-W28.6xW28.6 4"x4"-W38.2xW38.2 6"x6"-W57.2xW57.2	1.1446	3"x3"-D26.4xD26.4 4"x4"-D35.4xD35.4 6"x6"-D53.1xD53.1	1.0629
G	#6 @ 7½" Ctrs. #7 @ 9" Ctrs.	1.46	#7 @ 3" Ctrs. #8 @ 4" Ctrs.	2.19	3"x3"-W33.7xW33.7 4"x4"-W44.9xW44.9	1.3477	3"x3"-D31.3xD31.3 4"x4"-D41.7xD41.7	1.2514

GENERAL NOTES

1. For square or rectangular precast drainage structures, using either deformed or smooth WWR meeting the requirements of Specification Section 931, WWR shall be continuous around the box and lapped in accordance with Option 1 or 3 as shown in the Wall Reinforcing Splice Details.
2. Horizontal steel in the walls of rectangular structures shall be lap spliced in accordance with Option 1, 2 or 3 as shown in the Wall Reinforcing Splice Details.
3. Welding of splices and laps is permitted. The requirements and restrictions placed on welding in AASHTO M259 shall apply.
4. Rebar straight end embedment at perforated reinforcement may be used in lieu of ACI standard hooks for top and bottom slab rebar except when hooks are specifically called for in the plans or standard drawings.
5. Concrete as specified in ASTM C478, (4000 psi) may be used in lieu of Class II concrete in precast items manufactured in plants which meet the requirements in accordance with Specification Section 449.
6. Precast opening for pipe shall be the pipe OD plus 8" (± 2" tolerance). Mortar used to seal the pipe into the opening will be of such a mix that shrinkage will not cause leakage into or out of the structure. Dry-pack mortar may be used in lieu of brick and mortar construction to seal openings less than 2½" wide.
7. For pay item purposes, the height used to determine if a drainage structure is greater than 10 feet shall be computed using
   A. the elevation of the top of the manhole lid,
   B. the grade elevation or the theoretical gutter grade elevation of an inlet, or
   C. the outside top elevation of a junction box less the flow line elevation of the lowest pipe or to top of sump floor.

NOTES FOR PRECAST OPTIONS AND EQUIVALENT REINFORCEMENT SUBSTITUTION

1. Details for optional precast pipe inlet construction up to depths of 15' are shown on the inlet indexes.
2. When precast units are used in conjunction with Alt. "B" Structure Bottoms, Index No. 200, the inside dimensions of an Alt. "B" Bottom can be adjusted to reflect these inlet interior dimensions.
3. Concrete which meets the requirements of ASTM C478 or Class IV must be used for precast structures constructed with 6" wall or slab thickness.
4. Reinforcement can be either deformed bar reinforcement or welded wire reinforcement. Bar reinforcement other than 60 ksi may be used, however only two grades are recognized, Grade 40 and Grade 60. Smooth welded wire reinforcement will be recognized as having a design strength of 65 ksi and deformed welded wire reinforcement will be recognized as having a design strength of 70 ksi. The 65 ksi and 70 ksi strengths may be reduced to adjusted in accordance with the Equivalent Steel Area Table provided. For bar size and spacings not given, the steel area required can be determined by the following equations:

   Grade 40 Steel Area = $A_s@ = \frac{40}{60} \times A_s60$

   Smooth Welded Wire Reinforcement Steel Area = $A_s@ = \frac{65}{60} \times A_s60$

   Deformed Welded Wire Reinforcement Steel Area = $A_s@ = \frac{70}{60} \times A_s60$

   When a reduced area of reinforcement is provided, any maximum bar spacing shown must also be reduced as determined by the following equations, unless otherwise shown:

   Max. Grade 40 Bar Spacing = Grade 60 Bar Spacing
   Max. Smooth Welded Wire Spacing = Grade 60 Bar Spacing x 0.86
   Max. Deformed Welded Wire Spacing = Grade 60 Bar Spacing x 0.74

   When an increased area of reinforcing is provided, then the maximum bar spacing may be increased by the squared ratio of increased steel area, but not to exceed 12":

   Max. Bar Spacing Provided x Max. Bar Spacing Required = $\left(\frac{\text{Steel Area Provided}}{\text{Min. Steel Area Required}}\right)^2$

   In no case will reinforcement with wires smaller than W3.1 or D40, or spacings greater than 8" be permitted. Bar reinforcement shall show the minimum yield designation grade mark or either the number 60 or size (1) grade mark line to be acceptable at the higher value. Maximum bar spacing shall not be greater than two (2) times the slab thickness with a maximum spacing of 12". Bars shall be placed in two directions with a minimum spacing of 18" for vertical bars and 12" for horizontal bars. Wires smaller than W3.1 or D40 are permitted in the walls of ASTM C 478 round structure bottoms and round risers.
5. Fiber-reinforced concrete may be substituted for conventional steel reinforcement in accordance with the Structures Design Guidelines. Shop drawings corresponding to an approved fiber-reinforced concrete mix design must be submitted for approval to the State Drainage Engineer.

DESIGNER NOTE: Use only when round structures are not practical, engineer of record approval required.

NOTE: 1. Submit Shop Drawings of corner openings for approval by the Engineer of Record.

2. ½ sq in less than 1'-0" when a minimum 1'-0" deep segment, 9" slab or curb inlet is provided above the corner opening.
3. For inlet segments at finish grade elevation substitute a #6 Bar for the top corner bar when 1'-0" ≤ h, < 2'-0".

DETAILS FOR SKEWED PIPES IN RECTANGULAR STRUCTURES

GENERAL NOTES

1. This inlet is primarily intended for locatis with right flows where right of way does not permit the use of threated Curb Inlets Types 1 through 6. The typic application is on curb returns to city streets. The inlet grate is suitable for pedestrian and bicycle traffic.
2. This inlet to be located outside of curb rip area in vertical faced curbs such as Curb and Gutter Type F. Grate shall be oriented with vanes directed toward predominant flow.
3. For structure bottoms see Index No. 200 For supplemental details see Index No. 201.
4. All steel in slab tops shall have 1½' ninium cover unless otherwise shown. Tops shall be either cast-in-place or precast concrete.
5. For Alternate B applications, top slab openings shall be placed such that 2 edges of inlet frame will be located directly above bottom or riser walls.
6. When used on a structure with dimensionslarger than those detail above and risers are not applied, the top slab shall be constructed using Index No. 200 with a slab opening adjusted to 22"x24". The "Special Top Slab" on Index No. 200 is not permitted.
7. Frame may be adjusted with one to six cxses of brick.
8. Vanet grates with approximately equal openings will be permitted that satisfy AASHTO HL-93 loading. Grates shall be reversible.

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SEAL

Architect of Record
Gregg A. Foldsworth, AIA, LEED AP
FL license # AR0017688

ISSUE	BY	DATE	DESCRIPTION

PROJECTINFORMATION BLOCK

JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
CHECKED BY	Checker

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBIR

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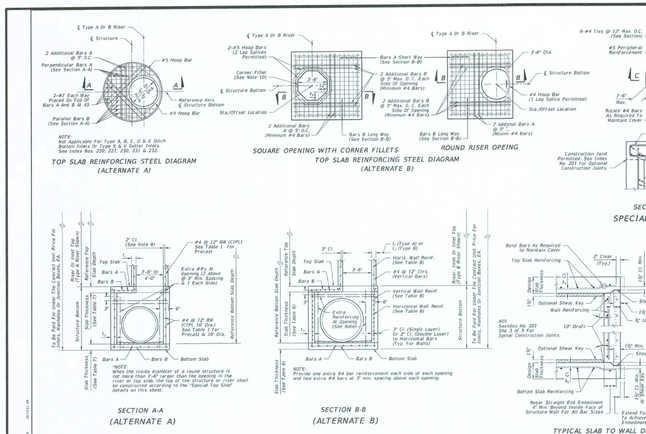

*When the inside diameter of a round structure is 10'-0" or greater, or the top slab opening of a square or top slab, the top of the structure or riser shall be constructed according to the "Special Top Slab" details on this sheet.

**Provide one extra #4 bar reinforcement each side of each opening and one extra #4 bars at 3" min. spacing above each opening.

NOTE: Not Applicable For Type A, B, C, D & E Ditch Bottom Inlets Or Type S & V Gutter Inlets. See Index Nos. 200, 231, 232, 233 & 234.

LAST REVISION	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	STRUCTURE BOTTOIS TYPE J AND P	INDEX NO. 200	SHEET NO. 1 of 5
11/01/16					

ROUND STRUCTURE BOTTOMS (ALTERNATE A) & ROUND RISERS- TABLE 1

Wall Thickness (t, & t1) and Vertical & Horizontal Areas of Reinforcement (As)

Type	Structure/Riser Diameter (ft)	Cast-in-Place Inside Class II Concrete			Precast Items				
		t;	t1	As	t;	t1	As		
		Riser (in.)	Bottom (in.)	Reference (in.²/ft.)	Riser (in.)	Bottom (in.)	Reference (in.²/ft.)	ASTM C478	
								t; or t1 (in.)	As ***
P	3'-0"	6	8	0.20	6	8	0.20	4**	0.105
P	6'-0"	6	8	0.20	6	8	0.20	5**	0.120
P	9'-0"	-	8	0.20	-	8	0.20	6	0.150
J	6'-0"	-	8	0.20	-	8	0.20	6	0.180
J	7'-0"	-	8	0.20	-	8	0.20	7	0.210
J	8'-0"	-	8	0.20	-	8	0.20	8	0.240
J	10'-0"	-	10	0.40/#	-	10	0.40/#	10	0.300
J	12'-0"	-	10	0.40/#	-	12	0.40/#	12	0.360

TABLE 1 NOTES:
#Provide 0.20 sq. in/ft. at each face, 12" max. bar spacing.
**Radial bar reinforcement required.
***Min. total circumferential reinforcement for continuous steel hoops.
As = 0.60 sq. in. for riser section height less than 2'-0" (2 hoop min.)
As = 0.40 sq. in. for riser section height more than 2'-0" up to 4'-0" (3 hoop min.)
Areas of reinforcing for precast items are based on Grade 60 reinforcing;
No reduction in the area of reinforcement is allowed for welded wire fabric in Table 1;
Area of vertical reinforcing may be reduced in accordance with ASTM C478.

SQUARE & RECTANGULAR STRUCTURES (ALTERNATE B) - TABLE 2

Type	Wall Length (ft)	Max. Depth (ft)	Wall Thickness (t)		
			CIP (in.)	Precast (in.)	
P	≤ 3'-6"	40	8	6	
J	5'-0"	22	-	6	
J	6'-0"	15	-	6	
J	5'-0" to 9'-0"	40	8	8	
J	10'-0"	26	8	8	
J	10'-0" to 12'-0"	40	10	9	
J	10'-0"	35	-	9	
J	14'-0"	40	10	10	
J	20'-0"	25	-	9	
J	20'-0"	30	10	10	

TABLE 2 NOTES:
See Table B for Reinforcing Schedule.

GENERAL NOTES

1. Standard structure bottoms 4'-0" diameter and smaller (dd, A) and 3'-0" square (dd, B) are designated Type P. Larger standard structure bottoms are designated Type J. Risers are permitted for all structures. Round risers are designated Type A, square risers are designated Type B.
2. Walls of circular structures (Alt. A) constructed in place may be of brick or reinforced concrete. Precast and rectangular structures (Alt. B) shall be constructed of reinforced concrete only.
3. Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with walls in accordance with ASTM C478 (see modified wall thicknesses in Table 1).
4. Top and bottom slab thickness and reinforcement are for precast and cast-in-place construction. All concrete shall be of Class II, concrete, except use Class IV concrete when shown in the Plans, for special applications of structures located in extremely aggressive environments. Concrete as specified in ASTM C478 (4000 psi) may be used in lieu of Class II concrete for precast items manufactured in accordance with Specifications Section 449.
5. All reinforcement shown is Grade 60 steel, deformed bar. Equivalent area Grade 40 steel or equivalent area smooth or deformed welded wire reinforcement in accordance with Specification Section 931 may be substituted according to Index No. 201, unless otherwise noted.
6. Alt. A or Alt. B structure bottoms may be used in conjunction with curb inlet tops Types 1, 2, 3, 4, 5, 6, 8, and 10, and any manhole or junction box unless otherwise shown in the plans or other standard drawings. Alt. B structure bottoms may be used in conjunction with curb inlet tops Types 7 & 9, or any ditch bottom inlet unless otherwise shown in the plans or other standard drawings.
7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and storm sewer pipes.
8. Except when ACI hooks are specifically required, reinforcement in top and bottom slab shall be straight embedment.
9. All reinforcement must have 2" minimum cover except for 3/4" diameter precast circular units manufactured under ASTM C478, keyed construction otherwise shown. Additional bars used to restrain tube fixtures for precast structures with grouted pipe connections may be left flush with the hole surface. Cut or bend reinforcement at pipe openings to maintain cover. Exposed ends of reinforcing at precast pipe openings and grouted joints must be removed to 1" below the concrete surface and sealed with a Type F epoxy in accordance with Specification Section 926. Horizontal steel in rectangular structures shall be lapped a minimum of 30 bar diameters or by standard hooks at corners.
10. The corner fillets shown are necessary for rectangular structures used with circular risers and inlet throats and when used on skew with rectangular risers, inlets and inlet throats. Fillets will be required in the top slab of all box structure bottoms when used with the Alt. B risers. Each fillet shall be reinforced with two #5 bars.
11. Inlet walls, throats, risers or manhole tops shall be secured to structures as shown on Index No. 201 (Sheet 3 of 5) Optional Construction Joints.
12. Structures with depths over 14' below the mean high water table are to be checked for flotation by the designer of the drainage project.
13. Units larger than specified standards may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Such larger units shall be furnished at no additional cost to the Department. Larger Alt. A units cannot replace Alt. B units without approval of the Engineer. This note applies to Index Nos. 200 and 201 only.
14. For manhole and junction box tops, for frames and covers, and, for supplementary details and notes see Index No. 201.
15. Type J structure bottoms must have a minimum 6'-0" wall height when possible, for maintenance access.

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TABLE 3-MINIMUM STRUCTURE SIZES FOR SINGLE PIPE CONNECTION PER SIDE

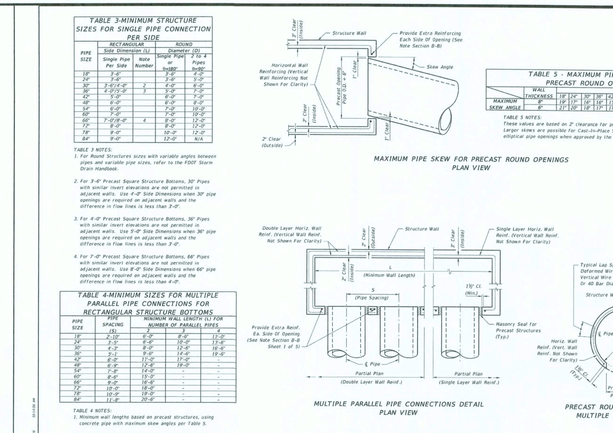
PIPE SIZE	RECTANGULAR		ROUND	
	Side Dimension (s)		Diameter (D)	
	Single Pipe Per Side	Max. Number	Single Pipe Per Side	2 To 4 Pipes Per Side*
12"	3'-0"	-	3'-0"	5'-0"
18"	3'-6"	-	3'-6"	5'-0"
24"	4'-0"/3'-0"	2	4'-0"	6'-0"
30"	4'-0"/3'-0"	2	5'-0"	7'-0"
36"	4'-0"/3'-0"	3	5'-0"	7'-0"
42"	5'-0"	-	6'-0"	8'-0"
48"	6'-0"	-	6'-0"	9'-0"
54"	7'-0"	-	7'-0"	10'-0"
60"	7'-0"/6'-0"	4	8'-0"	11'-0"
72"	8'-0"	-	9'-0"	12'-0"
78"	9'-0"	-	10'-0"	12'-0"
84"	10'-0"	-	10'-0"	12'-0"

TABLE 3 NOTES:
1. For Round Structures sizes with variable angles between pipes and variable pipe sizes, refer to the FDOT Storm Drain Handbook.
2. For 3'-0" Precast Square Structure Bottoms, 30" Pipes with similar invert elevations are not permitted in adjacent walls. Use 4'-0" Side Dimensions when 30" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
3. For 4'-0" Precast Square Structure Bottoms, 36" Pipes with similar invert elevations are not permitted in adjacent walls. Use 5'-0" Side Dimensions when 36" pipe openings are required on adjacent walls and the difference in flow lines is less than 3'-0".
4. For 7'-0" Precast Square Structure Bottoms, 60" Pipes with similar invert elevations are not permitted in adjacent walls. Use 8'-0" Side Dimensions when 60" pipe openings are required on adjacent walls and the difference in flow lines is less than 4'-0".

TABLE 4-MINIMUM SIZES FOR MULTIPLE PARALLEL PIPE CONNECTIONS FOR RECTANGULAR STRUCTURE BOTTOMS

PIPE SIZE	SPACING (S)	NUMBER OF PARALLEL PIPES		
		2	3	4
12"	3'-0"	8'-0"	9'-0"	10'-0"
18"	3'-6"	8'-0"	9'-0"	10'-0"
24"	4'-0"	9'-0"	11'-0"	13'-0"
30"	5'-0"	10'-0"	13'-0"	16'-0"
36"	6'-0"	11'-0"	15'-0"	19'-0"
42"	7'-0"	12'-0"	17'-0"	-
48"	8'-0"	13'-0"	19'-0"	-
54"	9'-0"	14'-0"	-	-
60"	10'-0"	15'-0"	-	-
66"	11'-0"	16'-0"	-	-
72"	12'-0"	17'-0"	-	-
78"	13'-0"	18'-0"	-	-
84"	14'-0"	20'-0"	-	-

TABLE 4 NOTES:
1. Minimum wall lengths based on precast structures, using concrete pipe with maximum skew angles per Table 5.
2. Wall lengths exceeding 20'-0" require special designs.



STRUCTURE SIZES FOR PIPE CONNECTIONS

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07/01/07					

SLAB DESIGNS - SQUARE AND RECTANGULAR STRUCTURES (TABLE 6)
(ALL SLABS 8" THICK EXCEPT AS NOTED - REINFORCING PARALLEL TO SHORT WAY AND LONG WAY)

SHORT-WAY		LONG-WAY	
SLAB DEPTH (Bars A)	SCHEDULE (Bars A)	SLAB DEPTH (Bars B)	SCHEDULE (Bars B)
SIZE: 3'-6" x UNLIMITED			
w3'-6" < ℓ ≤ 13	D5.5 @ 12"	w3'-6" < ℓ ≤ 24'	B10 @ 12"
13 < ℓ ≤ 17	D6.5 @ 12"	24' < ℓ ≤ 27'	B5.5 @ 12"
17' < ℓ ≤ 20'	D7 @ 12"	27' < ℓ ≤ 30'	B7 @ 12"
SIZE: 4' x UNLIMITED			
w3'-6" < ℓ ≤ 7'	D5.5 @ 12"	w3'-6" < ℓ ≤ 15'	B10 @ 12"
7' < ℓ ≤ 10'	D6.5 @ 12"	15' < ℓ ≤ 17'	B5.5 @ 12"
10' < ℓ ≤ 12'	D7 @ 12"	17' < ℓ ≤ 20'	B7 @ 12"
12' < ℓ ≤ 14'	D7 @ 6"	20' < ℓ ≤ 30'	B7 @ 6"
SIZE: 5' x 5'			
w3'-6" < ℓ ≤ 5'	D5.5 @ 12"	w3'-6" < ℓ ≤ 5'	D5.5 @ 12"
5' < ℓ ≤ 7'	D6.5 @ 12"	5' < ℓ ≤ 7'	D6.5 @ 12"
7' < ℓ ≤ 10'	D7 @ 12"	7' < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 6' x UNLIMITED			
w3'-6" < ℓ ≤ 6'	D5.5 @ 12"	w3'-6" < ℓ ≤ 6'	D5.5 @ 12"
6' < ℓ ≤ 8'	D6.5 @ 12"	6' < ℓ ≤ 8'	D6.5 @ 12"
8' < ℓ ≤ 10'	D7 @ 12"	8' < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 7' x 7'			
w3'-6" < ℓ ≤ 7'	D6.5 @ 12"	w3'-6" < ℓ ≤ 7'	D6.5 @ 12"
7' < ℓ ≤ 8'	D7 @ 12"	7' < ℓ ≤ 8'	D7 @ 12"
8' < ℓ ≤ 10'	D7 @ 6"	8' < ℓ ≤ 10'	D7 @ 6"
SIZE: 8' x 8'			
w3'-6" < ℓ ≤ 8'	D6.5 @ 12"	w3'-6" < ℓ ≤ 8'	D6.5 @ 12"
8' < ℓ ≤ 10'	D7 @ 12"	8' < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 9' x 9'			
w3'-6" < ℓ ≤ 9'	D6.5 @ 12"	w3'-6" < ℓ ≤ 9'	D6.5 @ 12"
9' < ℓ ≤ 10'	D7 @ 12"	9' < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 10' x 10'			
w3'-6" < ℓ ≤ 10'	D7 @ 12"	w3'-6" < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 12' x 12'			
w3'-6" < ℓ ≤ 12'	D7 @ 6"	w3'-6" < ℓ ≤ 12'	D7 @ 6"

SHORT-WAY		LONG-WAY	
SLAB DEPTH (Bars A)	SCHEDULE (Bars A)	SLAB DEPTH (Bars B)	SCHEDULE (Bars B)
SIZE: 3'-6" x UNLIMITED			
7'-3" < ℓ ≤ 13'	D7 @ 12"	w3'-6" < ℓ ≤ 13'	C3.5 @ 12"
13' < ℓ ≤ 17'	D8.5 @ 12"	13' < ℓ ≤ 17'	D4.5 @ 12"
17' < ℓ ≤ 20'	D9 @ 12"	17' < ℓ ≤ 20'	F5 @ 12"
		20' < ℓ ≤ 27'-30"	G3.5 @ 12"
SIZE: 4' x UNLIMITED			
w3'-6" < ℓ ≤ 7'	D5.5 @ 12"	w3'-6" < ℓ ≤ 10'	C3.5 @ 12"
7' < ℓ ≤ 10'	D7 @ 12"	10' < ℓ ≤ 13'	D4.5 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	13' < ℓ ≤ 17'	F5 @ 12"
		17' < ℓ ≤ 20'	G3.5 @ 12"
SIZE: 5' x 5'			
w3'-6" < ℓ ≤ 5'	D5.5 @ 12"	w3'-6" < ℓ ≤ 5'	D5.5 @ 12"
5' < ℓ ≤ 7'	D6.5 @ 12"	5' < ℓ ≤ 7'	D6.5 @ 12"
7' < ℓ ≤ 10'	D7 @ 12"	7' < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 6' x UNLIMITED			
w3'-6" < ℓ ≤ 6'	D5.5 @ 12"	w3'-6" < ℓ ≤ 6'	D5.5 @ 12"
6' < ℓ ≤ 8'	D6.5 @ 12"	6' < ℓ ≤ 8'	D6.5 @ 12"
8' < ℓ ≤ 10'	D7 @ 12"	8' < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 7' x 7'			
w3'-6" < ℓ ≤ 7'	D6.5 @ 12"	w3'-6" < ℓ ≤ 7'	D6.5 @ 12"
7' < ℓ ≤ 8'	D7 @ 12"	7' < ℓ ≤ 8'	D7 @ 12"
8' < ℓ ≤ 10'	D7 @ 6"	8' < ℓ ≤ 10'	D7 @ 6"
SIZE: 8' x 8'			
w3'-6" < ℓ ≤ 8'	D6.5 @ 12"	w3'-6" < ℓ ≤ 8'	D6.5 @ 12"
8' < ℓ ≤ 10'	D7 @ 12"	8' < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 9' x 9'			
w3'-6" < ℓ ≤ 9'	D6.5 @ 12"	w3'-6" < ℓ ≤ 9'	D6.5 @ 12"
9' < ℓ ≤ 10'	D7 @ 12"	9' < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 10' x 10'			
w3'-6" < ℓ ≤ 10'	D7 @ 12"	w3'-6" < ℓ ≤ 10'	D7 @ 12"
10' < ℓ ≤ 12'	D7 @ 6"	10' < ℓ ≤ 12'	D7 @ 6"
SIZE: 12' x 12'			
w3'-6" < ℓ ≤ 12'	D7 @ 6"	w3'-6" < ℓ ≤ 12'	D7 @ 6"

SLAB DESIGNS - ROUND STRUCTURES (TABLE 7)

SLAB DEPTH	SLAB THICKNESS	REINF. (SHORT) SCHEDULE
SIZE: 3'-6" DIAMETER		
0.5' < ℓ ≤ 20'	8"	#6 @ 6"
20' < ℓ ≤ 30'	8"	#5 @ 6"
SIZE: 4'-0" DIAMETER		
0.5' < ℓ ≤ 20'	8"	#6 @ 6"
20' < ℓ ≤ 30'	8"	#5 @ 6"
SIZE: 5'-0" DIAMETER		
w3.17' < ℓ ≤ 9'	8"	D6.5 @ 12"
9' < ℓ ≤ 15'	8"	D6.5 @ 6"
15' < ℓ ≤ 22'	8"	D7 @ 6"
22' < ℓ ≤ 30'	8"	D7 @ 3"
SIZE: 6'-0" DIAMETER		
w3.17' < ℓ ≤ 9'	8"	D6.5 @ 12"
9' < ℓ ≤ 15'	8"	D6.5 @ 6"
15' < ℓ ≤ 22'	8"	D7 @ 6"
22' < ℓ ≤ 30'	8"	D7 @ 3"
SIZE: 7'-0" DIAMETER		
w3.17' < ℓ ≤ 9'	8"	D7 @ 12"
9' < ℓ ≤ 15'	8"	D7 @ 6"
15' < ℓ ≤ 22'	8"	D7 @ 3"
22' < ℓ ≤ 30'	8"	F5 @ 3"
SIZE: 8'-0" DIAMETER		
w3.17' < ℓ ≤ 9'	8"	D7 @ 12"
9' < ℓ ≤ 15'	8"	D7 @ 6"
15' < ℓ ≤ 22'	8"	F5 @ 6"
22' < ℓ ≤ 30'	8"	F5 @ 3"
SIZE: 9'-0" DIAMETER		
w3'-6" < ℓ ≤ 12'	10"	D4.5 @ 12"
12' < ℓ ≤ 20'	10"	F5 @ 12"
20' < ℓ ≤ 30'	10"	F5 @ 6"
SIZE: 10'-0" DIAMETER		
w3'-6" < ℓ ≤ 12'	10"	D4.5 @ 12"
12' < ℓ ≤ 20'	10"	F5 @ 12"
20' < ℓ ≤ 30'	10"	F5 @ 6"
SIZE: 12'-0" DIAMETER		
w3'-6" < ℓ ≤ 12'	10"	D4.5 @ 12"
12' < ℓ ≤ 20'	10"	F5 @ 12"
20' < ℓ ≤ 30'	10"	F5 @ 6"

SLAB AND WALL DESIGN TABLE NOES

1. Size is the inside dimension(s) of a structure.
2. Slab reinforcement is appropriate for top, intermedio, and bottom slabs.
3. Bottom Slabs for precast 3'-6" x 3'-6" rectangular structures at 15 depth or less, may be 6" thick.
4. Slab depth is measured from finished grade to top slab.
5. Wall depth is measured from the top of the bottom slabor bases and to the top of the intermediate slab for rick.
6. Wall height is the distance between top of lower slabs bottom of upper slab. Maximum wall height is 12' for wall lengths exceeding 5', or 10' for wall lengths exceed-12.
7. Wall lengths exceeding 6'-0" require two layers of reinforcing that Table B1 with 2" of cover from the horizontal bars to the inside and outside faces for each layer.
8. Wall lengths exceeding the dimensions or depths shown in Table B, or 12'-0" diameter require a special design.
9. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.
10. Reinforcing schedules with larger areas of steel may be substituted for schedules with smaller bar or wire spacing, except that Schedule B10 may not be substituted for Schedule A6. See Index 201, Sheet 4 For allowable bar spacing adjustments when larger areas of reinforcing are substituted.

LAST REVISION	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	STRUCTURE BOTTOIS TYPE J AND P	INDEX NO. 200	SHEET NO. 4 of 5
11/01/16					

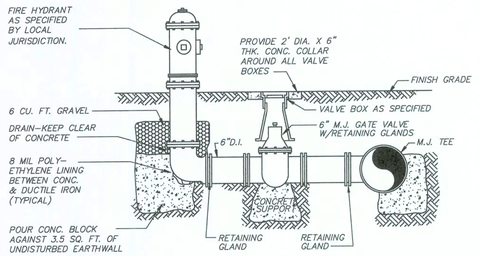
WALL DESIGNS - RECTANGULAR STRUCTURES (TABLE 8)

VERTICAL REINFORCING		HORIZONTAL REINFORCING		WALL THICKNESS
WALL DEPTH	SCHEDULE (Inside)	WALL DEPTH	SCHEDULE	
SIZE: 3'-6" & RISERS				
s1.17' < ℓ ≤ 10'	B10	s1.17' < ℓ ≤ 10'	B10	6"/8"
10' < ℓ ≤ 14'	B10	10' < ℓ ≤ 14'	B5.5	6"/8"
14' < ℓ ≤ 29'	B5.5	14' < ℓ ≤ 29'	B7	6"/8"
29' < ℓ ≤ 40'	C3.5			6"/8"
SIZE: 4'-0" DIAMETER				
s1.17' < ℓ ≤ 10'	B10	s1.17' < ℓ ≤ 10'	B10	6"/8"
6' < ℓ ≤ 10'	B5.5	10' < ℓ ≤ 14'	B5.5	6"/8"
10' < ℓ ≤ 29'	C6.5	14' < ℓ ≤ 29'	B7	6"/8"
29' < ℓ ≤ 40'	C3.5			6"/8"
SIZE: 5'-0" DIAMETER				
s1.17' < ℓ ≤ 15'	C6.5	s1.17' < ℓ ≤ 15'	C6.5	6"/8"
15' < ℓ ≤ 29'	B7	15' < ℓ ≤ 29'	C6.5	6"/8"
29' < ℓ ≤ 40'	C3.5			6"/8"
SIZE: 6'-0" DIAMETER				
s1.17' < ℓ ≤ 9'	B10	s1.17' < ℓ ≤ 9'	B10	6"/8"
9' < ℓ ≤ 15'	B5.5	9' < ℓ ≤ 15'	B5.5	6"/8"
15' < ℓ ≤ 22'	B7	15' < ℓ ≤ 22'	B7	6"/8"
22' < ℓ ≤ 40'	C3.5			6"/8"
SIZE: 7'-0" DIAMETER				
s1.17' < ℓ ≤ 9'	B10	s1.17' < ℓ ≤ 9'	B10	6"/8"
9' < ℓ ≤ 15'	B5.5	9' < ℓ ≤ 15'	B5.5	6"/8"
15' < ℓ ≤ 22'	B7	15' < ℓ ≤ 22'	B7	6"/8"
22' < ℓ ≤ 40'	C3.5			6"/8"
SIZE: 8'-0" DIAMETER				
s1.17' < ℓ ≤ 9'	B10	s1.17' < ℓ ≤ 9'	B10	6"/8"
9' < ℓ ≤ 15'	B5.5	9' < ℓ ≤ 15'	B5.5	6"/8"
15' < ℓ ≤ 22'	B7	15' < ℓ ≤ 22'	B7	6"/8"
22' < ℓ ≤ 40'	C3.5			6"/8"
SIZE: 9'-0" DIAMETER				
s1.17' < ℓ ≤ 9'	B10	s1.17' < ℓ ≤ 9'	B10	6"/8"
9' < ℓ ≤ 15'	B5.5	9' < ℓ ≤ 15'	B5.5	6"/8"
15' < ℓ ≤ 22'	B7	15' < ℓ ≤ 22'	B7	6"/8"
22' < ℓ ≤ 40'	C3.5			6"/8"
SIZE: 10'-0" DIAMETER				
s1.17' < ℓ ≤ 9'	B10	s1.17' < ℓ ≤ 9'	B10	6"/8"
9' < ℓ ≤ 15'	B5.5	9' < ℓ ≤ 15'	B5.5	6"/8"
15' < ℓ ≤ 22'	B7	15' < ℓ ≤ 22'	B7	6"/8"
22' < ℓ ≤ 40'	C3.5			6"/8"
SIZE: 12'-0" DIAMETER				
s1.17' < ℓ ≤ 9'	B10	s1.17' < ℓ ≤ 9'	B10	6"/8"
9' < ℓ ≤ 15'	B5.5	9' < ℓ ≤ 15'	B5.5	6"/8"
15' < ℓ ≤ 22'	B7	15' < ℓ ≤ 22'	B7	6"/8"
22' < ℓ ≤ 40'	C3.5			6"/8"

VERTICAL REINFORCING		HORIZONTAL REINFORCING		WALL THICKNESS
WALL DEPTH	SCHEDULE (Outside)	WALL DEPTH	SCHEDULE	
SIZE: 10'-0" (Precast Only)				
26' – 40'	D7	26' – 40'	F5	9"
	Inside&Outside		Inside&Outside	
s1.17' < ℓ ≤ 14'	B10	s1.17' < ℓ ≤ 10'	C6.5	10"
14' < ℓ ≤ 26'	C6.5	10' < ℓ ≤ 17'	D7	10"
26' – 40'	D7	17' < ℓ ≤ 26'	F5	10"
		26' – 40'	G5	10"
SIZE: 12'-0" (Precast Only)				
s1.17' < ℓ ≤ 12'	B10	s1.17' < ℓ ≤ 10'	D7	9"
12' < ℓ ≤ 24'	C6.5	10' < ℓ ≤ 24.5'	D7	9"
24' – 40'	D7	24.5' < ℓ ≤ 27'	F5	9"
		27' – 40'	G5	9"
SIZE: 16'-0" (Precast Only)				
s1.17' < ℓ ≤ 11'	C6.5	s1.17' < ℓ ≤ 17'	D7	10"
11' < ℓ ≤ 20'	D7	17' < ℓ ≤ 20'	F5	10"
20' < ℓ ≤ 28'	F5	20' < ℓ ≤ 28'	F5	10"
28' – 40'	F5	28' – 40'	G5	10"
SIZE: 20'-0" (Precast Only)				
s1.17' < ℓ ≤ 11'	C6.5	s1.17' < ℓ ≤ 17'	D7	10"
11' < ℓ ≤ 17'	D7	17' < ℓ ≤ 20'	F5	10"
17' – 30'	F5	20' – 30'	G5	10"
SIZE: 24'-0" (Precast Only)				
s1.17' < ℓ ≤ 8'	C6.5	s1.17' < ℓ ≤ 8'	D7	10"
8' < ℓ ≤ 17'	D7	8' < ℓ ≤ 17'	F5	10"
17' – 29'	F5	17' – 29'	G5	10"

REINFORCING STEEL SCHEDULE		
SCHEDULE	GRADE 60 BARS OR 65 KSI WELDED WIRE REINFORCING	
	AREA (in.²/ft.)	SPACING GR 60 BARS (in.)
A12	0.20	12
A6	0.20	6
B10	0.24	10
B5.5	0.24	5½
C6.5	0.37	6½
C3.5	0.37	3½
D7	0.44	7
D4.5	0.53	4½
E5	0.73	5
E3	0.73	3
F5	1.06	5
F3.5	1.06	3½
G5	1.45	5
G3.5	1.45	3½
H4	1.75	4

REINFORCING STEEL SCHEDULE		
SCHEDULE	GRADE 60 BARS OR 65 KSI WELDED WIRE REINFORCING	
	MAXIMUM SPACING WWR EQUIV. AREA*	
	65 KSI (in.)	70 KSI (in.)
A12	12	8
A6	6	5
B10	10	8
B5.5	5½	4
C6.5	6½	5
C3.5	3½	3
D7	7	5
D4.5	4½	4
E5	5	4
E3	3	3
F5	5	4
F

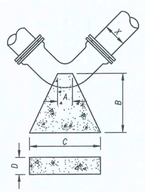


NOTES:

1. ALL HYDRANTS TO BE SET PLUMB W/ NOZZLE FACING STREET UNLESS OTHERWISE SPECIFIED BY FIRE DEPARTMENT
2. ALL CONCRETE TO BE 2500 PSI CONCRETE
3. FIRE HYDRANT ASSEMBLY INCLUDES GATE VALVE AND APPURTENANCES

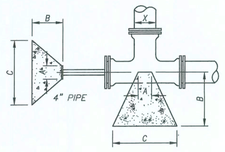
FIRE HYDRANT ASSEMBLY

N.T.S.



BLOCKING DIMENSIONS				
X	A	B	C	D
TEES 16" RUN				
16	12"	3'-0"	3'-8"	3'-8"
12	10"	2'-6"	2'-9"	2'-9"
10	10"	2'-6"	2'-6"	2'-3"
8	10"	2'-0"	1'-9"	2'-0"
6	8"	2'-0"	1'-4"	1'-6"
TEES 12" RUN				
12	10"	2'-6"	2'-9"	2'-9"
10	10"	2'-6"	2'-6"	2'-3"
8	10"	2'-0"	1'-9"	2'-0"
6	8"	2'-0"	1'-4"	1'-6"
TEES 10" RUN				
10	10"	2'-6"	2'-8"	2'-3"
8	10"	2'-0"	1'-9"	2'-0"
6	8"	2'-0"	1'-4"	1'-6"

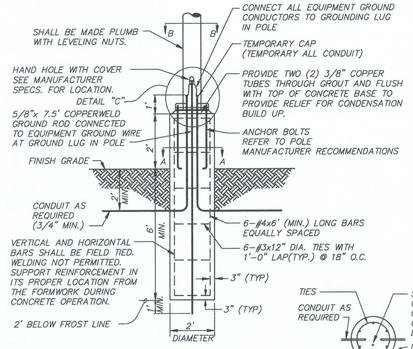
BLOCKING DIMENSIONS				
X	A	B	C	D
90° BENDS				
16	14"	3'-0"	4'-6"	4'-3"
12	12"	2'-6"	3'-4"	3'-4"
10	8"	2'-6"	3'-0"	2'-6"
8	8"	2'-0"	2'-6"	2'-0"
6	6"	2'-0"	1'-10"	1'-6"
45° BENDS				
16	14"	3'-0"	3'-6"	4'-3"
12	12"	2'-6"	2'-6"	3'-4"
10	8"	2'-6"	2'-3"	2'-6"
8	8"	2'-0"	1'-8"	2'-0"
6	6"	2'-0"	1'-3"	1'-6"
22.5° BENDS				
16	12"	2'-6"	2'-4"	2'-4"
12	8"	2'-0"	1'-9"	1'-9"
10	8"	2'-0"	1'-6"	1'-6"
8	6"	2'-0"	1'-3"	1'-3"
6	6"	1'-6"	1'-0"	1'-0"
11.25° BENDS				
16	8"	2'-0"	1'-8"	1'-8"
12	6"	2'-0"	1'-3"	1'-3"
10	6"	1'-6"	1'-0"	1'-0"
8	6"	1'-6"	1'-0"	1'-0"
6	6"	1'-6"	1'-0"	1'-0"
TEES 8" RUN				
8	10"	2'-0"	1'-9"	2'-0"
6	8"	2'-0"	1'-4"	1'-6"
TEES 6" RUN				
6	8"	2'-0"	1'-4"	1'-6"



WATER MAIN BLOCKING

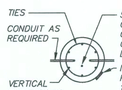
N.T.S.

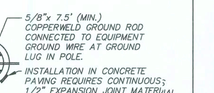
U1P



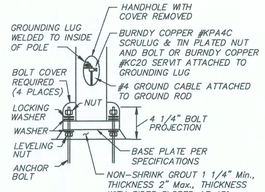
REFER TO POLE MANUFACTURER RECOMMENDATIONS

TYPICAL ANCHOR BOLT SPACING

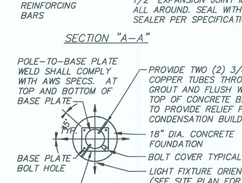




SECTION "A-A"



DETAIL "C"



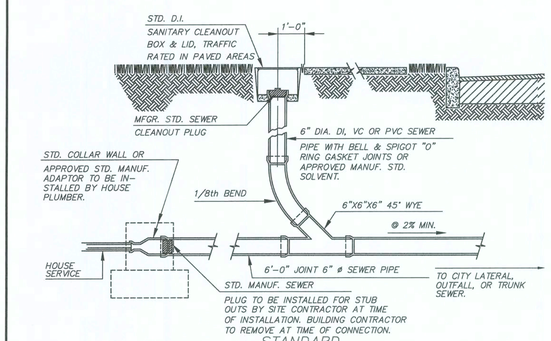
SECTION "B-B"

NOTES:

1. 3500 PSI MIN. 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 REINFORCING STEEL
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE. FOUNDATION EXCAVATION SHALL BE BY 24" AUGER IN UNDISTURBED OR PROPERLY COMPACTED FILL PER SPECIFICATIONS.
4. FOUNDATION SHALL HAVE A MINIMUM ALLOWABLE END BEARING OF 2000 PSF.
5. FOUNDATION HAS BEEN DESIGNED FOR A COHESIVE SOIL BASED ON A MINIMUM COHESIVE VALUE OF 1000 PSF.
6. FOUNDATION HAS BEEN DESIGNED FOR A GRANULAR SOIL BASED ON A MINIMUM LATERAL SOIL PRESSURE OF 1000 PSF, UTILIZING AASHTO FIGURE 1.8.2C(4) OF "EMBEDMENT OF POSTS WITH OVERTURNING LOADS".
7. EXPOSED CONCRETE AND GROUT SHALL BE PAINTED TRAFFIC YELLOW.
8. DETAIL FOR 39' POLE WITH MAX. FIXTURE EPA 4.6 SQ.FT.
9. FOR CONDITIONS OTHER THAN SPECIFIED NOTIFY ENGINEER.

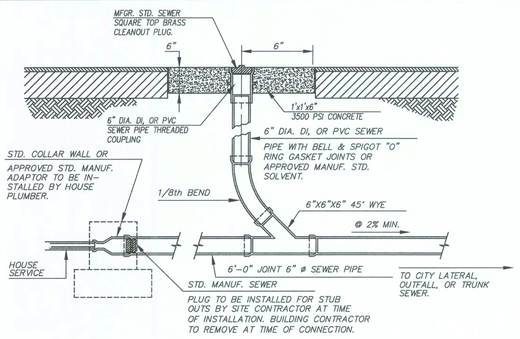
TYPICAL LIGHTING POLE BASE DETAIL

N.T.S. 18' POLE



STANDARD SANITARY CLEAN-OUT

N.T.S.



HEAVY DUTY SANITARY CLEAN-OUT IN ROADWAY SECTION

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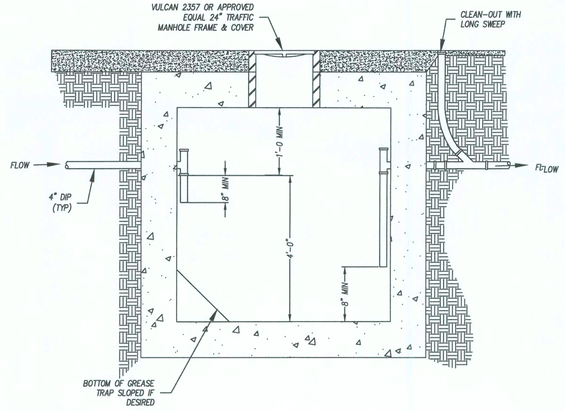


GREASE TRAP

N.T.S.

6/27/2019 4:53:36 PM

ZURN

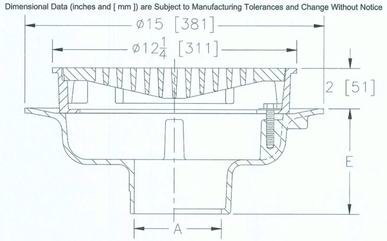
Z505

12-1/4 [311] HEAVY DUTY DRAIN

SPECIFICATION SHEET

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



A Pipe Size In.[mm]	Approx. Wt. Lbs.[kg]	Grate Open Area Sq. In. [cm²]
2,3,4,6 [51,76,102,152]	38 [17]	30 [194]
8 [203]	40 [18]	

ENGINEERING SPECIFICATION: ZURN Z505
12-1/4" [311mm] Diameter top drain. Dura-Coated cast iron body with bottom outlet, seepage pan and combination membrane flashing clamp and frame for heavy duty deep flange slotted grate.

OPTIONS (Check/specify appropriate options)

PIPE SIZE
3,4,6 [76,102,152]
3,4,6 [76,102,152]
2,3,4,6,8 [51,76,102,152,203]
2,3,4,6,8 [51,76,102,152,203]
2,3,4 [51,76,102]

(Specify size/type) **OUTLET**
____ IC Inside Caulk
____ IG Inside Gasket
____ IP Threaded
____ NH No-Hub
____ NL Neo-Loc

'E' BODY HT. DIM.
5-1/4 [133]
5-1/4 [133]
3-3/4 [95]
5-1/4 [133]
4-5/8 [117]

PREFIXES
____ Z D.C.C.I. Body and Top*
____ ZB D.C.C.I. Body with Polished Bronze Top (Add 3/16 [5] to 2 [51] Dim. and 3/4 [20] to 12-1/4 [311] Dim.)
____ ZN D.C.C.I. Body with Polished Nickel Bronze Top (Add 3/16 [5] to 2 [51] Dim. and 3/4 [20] to 12-1/4 [311] Dim.)

SUFFIXES
____ -AR Acid Resisting Epoxy Coated Cast Iron
____ -D Dome Grate
____ -DG Duresist Grate
____ -F Extension Frame (Specify Total Height Req'd.)
____ -G Galvanized Cast Iron
____ -HP Heel-Proof Grate
____ -HT Square Hinged Grate
____ -P Trap Primer Connection
____ -S Secondary Strainer
____ -SA Stablizer Assembly (See Z1036)
____ -SC Solid Cover
____ -SS Stainless Mesh Liner for Bucket
____ -T Square Top
____ -TC Neo-Loc Test Cap Gasket (2,3,4 [51,76,102] NL Bottom Outlet Only)
____ -TS Top Secured with Slotted Screws
____ -V Backwater Valve (See Z1099)
____ -VP Vandal-Proof Secured Top
____ -Y Sediment Bucket
____ -90 90° Threaded Side Outlet Body (2,3,4,6 [51,76,102,152] Only)

* Regularly furnished unless otherwise specified.

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA U.S.A. 16502 - Ph. 855-663-9876, Fax 814-454-7929
In Canada | **Zurn Industries Limited**
3544 Nashua Drive, Mississauga, Ontario L4V 1L2 - Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

Rev. F
Date: 10/04/2017
C.N. No. 138392
Prod. | Dwg. No. Z505

bdg architects
400 N. Ashley Dr., Ste. 600 Tampa, FL 33602
P: 813 - 323 - 9233
Lic. #: AA - 0003590
W: www.bdgllp.com

TEXAS ROADHOUSE

TEXAS ROADHOUSE
117 NW KNIGHTS AVE.
LAKE CITY, FLORIDA

APPROVED - PASCO COUNTY - DEVELOPMENT SERVICES DEPARTMENT - ZONING

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SEAL

Architect of record
Gregg A. Holdsworth, AA, LEED AP
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ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

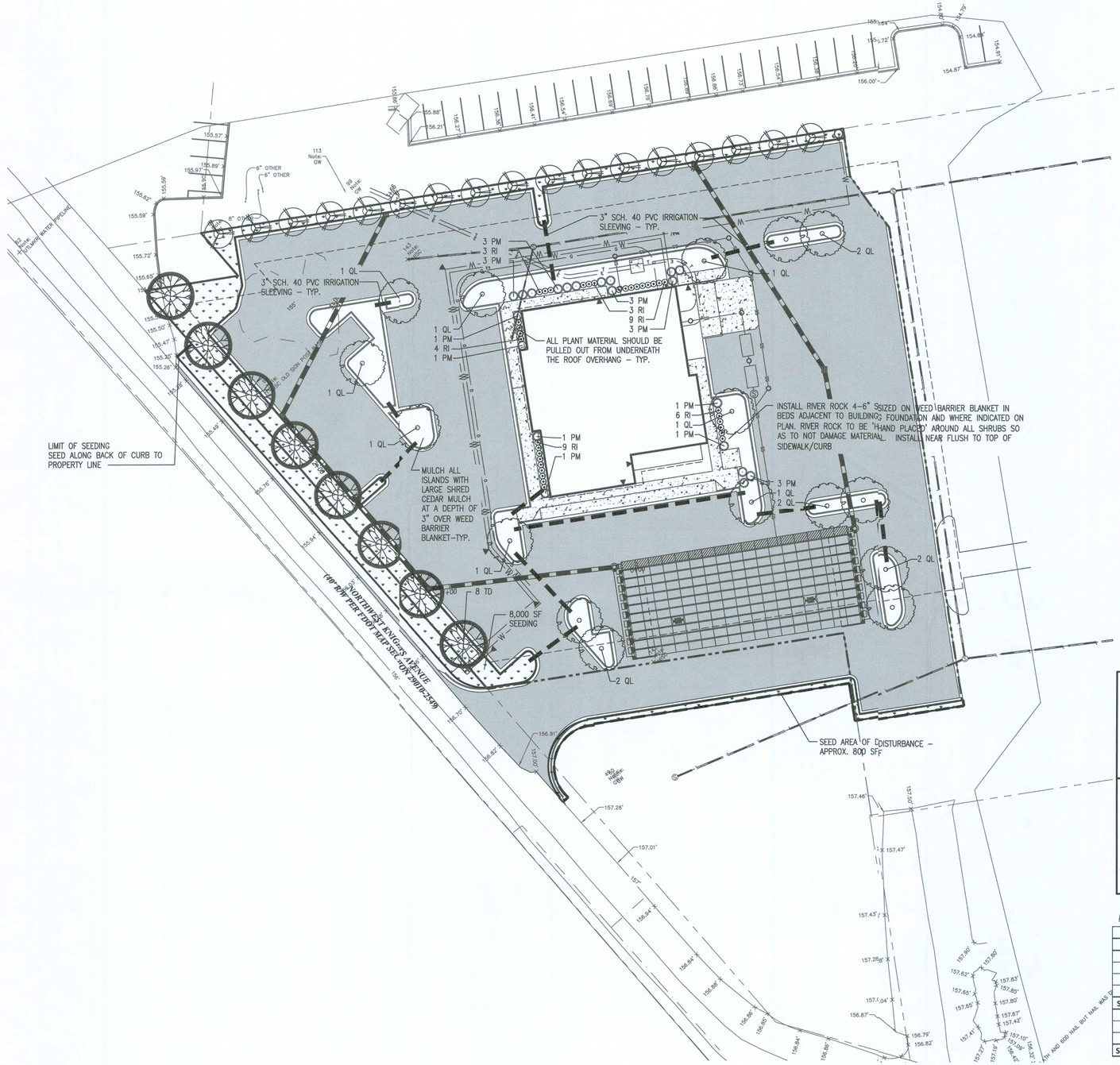
JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
CHECKED BY:	Checker

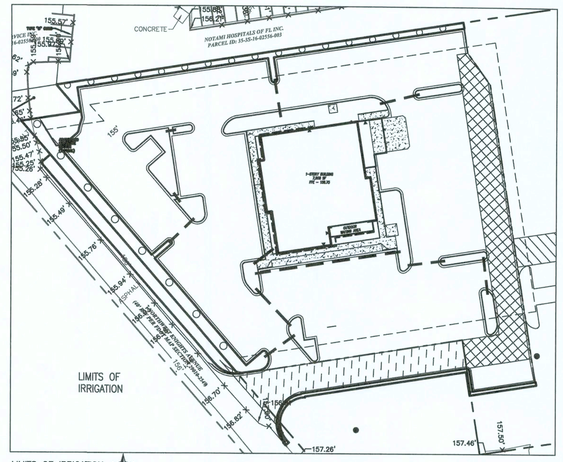
SHEET TITLE

CONSTRJCTION DETAILS

SHEET NUMBER

C904





LIMITS OF IRRIGATION

SCALE 1" = 60'–0"

LANDSCAPE REQUIREMENTS:

OFF STREET PARKING LANDSCAPE REQUIREMENTS:

A MINIMUM OF 10% OF ANY OFF STREET PARKING AREA SHALL BE LANDSCAPE WITH GRASS, PLANTS, SHRUBS AND/OR TREES.

PARKING LOT AREA = 81,146.8 SF
10% REQUIRED AREA = 8,115 SF
LANDSCAPE AREA PROVIDED = 10,580 SF

TOTAL NUMBER OF TREES SHALL NOT BE LESS THAN ONE FOR EACH 200 SF OR FRACTION THEREOF OF REQUIRED LANDSCAPE AREA.
LANDSCAPE ARE REQUIRED= 8,115 SF/200 SF = 41 TREES REQUIRED

TREES PROVIDED:
(17) NATCHEZ CRAPE MYRTLE
(16) LAUREL OAK
(8) BALD CYPRESS
TOTAL: 41 TREES

NOTES:

1. GRAPHIC SYMBOLS TAKE PRECEDENCE OVER WRITTEN QUANTITIES AND KEYS ON PLANS.
2. TWO WEEKS PRIOR TO PLANTING, THE CONTRACTOR SHALL SUBMIT TO THE OWNER/OWNER'S REPRESENTATIVE A PLANT PHOTO SUBMITTAL FOR APPROVAL. IF REQUESTED, THE OWNER, THE LANDSCAPE ARCHITECT WILL TAG THE MATERIAL.
3. EACH PHOTO SHALL CLEARLY SHOW THE SIZE, FORM AND BRANCHING STRUCTURE AND QUALITY OF THE PLANT.
4. EACH PHOTO SHALL HAVE THE PLANT NAME, SIZE AND SPECIFICATIONS LABELED ON THE PHOTO.
5. ANY PHOTO SHOWING A GROUP OF PLANTS CLOSE TOGETHER WILL NOT BE ACCEPTED.
6. NO PARTIAL OR INCOMPLETE SUBMITTAL WILL BE ACCEPTED FOR REVIEW. ANY REJECTED SPECIES WILL BE SUBJECT TO RESUBMITTAL.
7. SAMPLES OF RIVER ROCK COBBLESTONE ARE TO BE PROVIDED TO THE OWNER/TENANT FOR REVIEW AND APPROVAL TWO WEEKS PRIOR TO CONSTRUCTION. NO COBBLESTONE IS TO BE INSTALLED WITHOUT PRIOR APPROVAL FROM TEXAS ROADHOUSE.
8. CONTRACTOR TO PROVIDE SITE IRRIGATION FOR LANDSCAPE AREAS AROUND BUILDING PERIMETER ONLY. IRRIGATION FOR THIS AREA TO PROVIDE 100% COVERAGE OF ALL PLANTED AREAS. SHRUB AREA TO BE WATERED WITH SUBSURFACE IRRIGATION. LAWN AREAS TO BE KEPT ON SEPARATE ZONES FROM SHRUB BEDS, DO NOT SPRAY ONTO BUILDING. IRRIGATION SYSTEM TO BE DESIGNED INSTALLED PER LOCAL, STATE, AND FEDERAL CODES.
9. IN AREAS OF THE SITE WHERE THERE IS NO IRRIGATION SYSTEM, THE CONTRACTOR SHALL BE REQUIRED TO HAND WATER ALL PLANT MATERIAL FOR THE DURATION OF THE ENTIRE GROWING SEASON UNTIL PLANT MATERIAL IS ESTABLISHED.
10. ALL PLANT MATERIAL SHALL MEET OF EXCEED SIZE AND SHAPE RELATIONSHIPS SPECIFIED IN THE LATEST EDITION OF FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
11. ALL SIZES SPECIFIED REFER TO THE SIZE AT THE TIME OF PLANTING, AND SHALL BE 'FLORIDA FANCY' GRADE..

REGISTERED LANDSCAPE ARCHITECT
LINDA J. BRADY
LA6667264
STATE OF FLORIDA
7-4-19

ENGINEER OF RECORD –
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CERTIFICATE OF AUTHORIZATION NO. 31457

SIGNATURE DATE

PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
TREES						
LI	17	LAGERSTROMIA INDICA 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	5-6' HT.	20' O.C.	3-5 CANES MIN. TREE FORM, MATCHED
QL	16	QUERCUS LAURIFOLIA	LAUREL OAK	2" CAL., 12-14' HT.	AS SHOWN	WELL BALANCED HEAD
TD	8	TAXODIUM DISTICHUM	BALD CYPRESS	2" CAL., 12-14' HT.	35' O.C.	WELL BALANCED HEAD
	41	**TOTAL TREES**				
SHRUBS						
PM	21	PODOCARPUS MACROPHYLLUS var. MAKI	MAKI PODOCARPUS	7' HT. MIN.	AS SHOWN	FULL TO GROUND, MATCHED SPECIMEN
RI	30	RHAPIOLEPIS INDICA 'ELEANOR TABOR'	ELEANOR TABOR INDIAN HAWTHORN	24-30" HT.	3' O.C.	FULL, WELL BALANCED, MATCHED
SEEDING	8,800 SF	EREMOCHLOA OPHIUROIDES	CENTEPEDE GRASS			1-2 LBS PER 1000 SF, SEASON PERMITTING

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SEAL

Architect of Record
Gregg A. Holdsworth AIA, LEED AP
FL License # /R0017669

ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
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SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

L100

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LANDSCAPE NOTES:

LANDSCAPE PLANTING:

1. THE LANDSCAPE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS AND VERIFY THEM TO HIS SATISFACTION. THE LANDSCAPE CONTRACTOR SHALL ACCEPT THE SITE CONDITIONS AND DO THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION FOR POSSIBLE VARIATION FROM GRADES AND CONDITIONS SHOWN

2. PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING CONSTRUCTION. SHOULD THE LANDSCAPE CONTRACTOR CAUSE DAMAGE TO ANY UTILITIES, HE SHALL MAKE NECESSARY REPAIRS AS QUICKLY AS POSSIBLE WITHOUT ADDITIONAL COMPENSATION.

3. ALL PLANT MATERIAL SIZES AND MEASUREMENTS, INCLUDING TRUNK, HEAD, AND SPREAD SIZES, CONTAINER AND ROOTBALL SIZES, QUALITY AND CONDITION SHALL CONFORM TO THE STANDARDS SET FORTH IN THE CURRENT ISSUE OF FLORIDA GRADES AND STANDARDS FOR NURSERY STOCK FOR NURSERY PLANTS.

4. ALL PLANT MATERIAL IS SUBJECT TO THE APPROVAL BY THE OWNER, AND MAY BE INSPECTED AT THE PLACE OF GROWTH OR ON SITE PRIOR TO PLANTING. LANDSCAPE ARCHITECT RETAINS THE RIGHT TO REJECT ANY PLANT MATERIAL WHICH IS NOT TO HER SATISFACTION.

5. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, IN FULL, ALL LANDSCAPE PLANTING WORK (INCLUDING WATERING, SPRAYING FOR INSECT OR DISEASE, MULCHING, MOWING, FERTILIZING, CULTIVATION, EDGING OR WEEDING) FOR A PERIOD OF 90 DAYS AFTER ACCEPTANCE BY THE OWNER.

6. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANTING WORK AND MATERIALS FOR PERIOD OF ONE (1) FULL YEAR FROM THE DATE THE WORK HAS BEEN APPROVED BY THE OWNER AS INSTALLED. ALL PLANT MATERIALS NOT HEALTHY GROWING CONDITION SHALL BE REMOVED IMMEDIATELY AND REPLACED AS SOON AS POSSIBLE WITH LIKE AND KIND AND SIZE AT NO CHARGE TO THE OWNER.

7. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING SOIL SAMPLES FROM SOIL AND NATIVE OR FILL SOILS AT THE SITE AND SUBMITTING THEM TO AN APPROVED SOIL TESTING LABORATORY, AND OBTAIN ANALYSES AND RECOMMENDATIONS FOR AMENDING THESE SOILS AND FERTILIZATION OF SPECIFIED PLANT MATERIAL. AT A MINIMUM ALL PLANTING AREAS SHALL BE FERTILIZED WITH 12LBS /1000 SF OF 10-10-10 FERTILIZER.

8. ALL PLANTING AREAS, SHRUB BEDS AND TREES SHALL BE MULCHED WITH A MINIMUM COMPACTED DEPTH OF THREE (3) INCHES OF MULCH AS SPECIFIED. PRIOR TO MULCHING, APPLY A PRE-EMERGENT HERBICIDE (APPROVED BY OWNER) AS RECOMMENDED BY THE MANUFACTURER, TO PREVENT REOCCURRING WEED AND GRASS GROWTH.

9. PLANT BEDS ADJACENT TO TEXAS ROADHOUSE BUILDING ARE TO HAVE 4-6" LENGTH COBBLESTONE INSTALLED ON WEED BARRIER. STONES TO BE HAND PLACED AS TO NOT DAMAGE PLANT MATERIAL DURING INSTALLATION.
ALL PLANTING AND PLANT MATERIALS REQUIRED BY THIS CONTRACT SHALL BE IN A SATISFACTORY AND ACCEPTABLE CONDITION WHEN THE CONTRACTOR APPLIES FOR PAYMENT.
INSTALL TREE PLUMB. DO NOT DEPEND ON STAKING TO PULL PLANT TO A PLUMB POSITION. STAKING SHALL BE ON AN AS NEEDED BASIS.

10. CONTRACTOR IS TO TAKE SPECIAL CARE WHEN INSTALLING NEW PLANT MATERIAL SO AS NOT TO DISTURB ANY EXISTING PLANTINGS DESIGNATED TO REMAIN. ANY EXISTING PLANT MATERIAL DAMAGED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIAL OF SIMILAR SPECIES AND SIZE AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.

TURF AND LAWNS

1. ALL DISTURBED AREAS SHALL RECEIVE 4" MINIMUM OF TOPSOIL (COMPACTED) AND GRASSED WITH SOD OR SEED AS INDICATED ON PLAN. LANDSCAPE CONTRACTOR TO COORDINATE HIS/HER WORK WITH OTHER TRADES REGARDING FINISH GRADING. IF AVAILABLE, CONTRACTOR IS TO USE STOCKPILED TOPSOIL ON SITE. IF NOT AVAILABLE, THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR IMPORTING THE TOPSOIL NECESSARY TO MEET FINISH GRADE.

2. TOPSOIL SHALL BE FERTILE, FRIABLE AND REPRESENTATIVE OF LOCAL PRODUCTIVE SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH AND FREE OF CLAY LUMPS, SUBSOIL, NOXIOUS WEEDS OR OTHER FOREIGN MATTER SUCH AS STONES, ROOTS, STICKS AND OTHER EXTRANEOUS MATERIALS. NOT FROZEN OR MUDDY. Ph OF TOPSOIL TO RANGE BETWEEN 5.5 AND 7.5.

3. SODDED AREAS SHALL BE GRASSED WITH SOD AS SPECIFIED ON PLANS. SOD SHALL BE LAID WITH CLOSE, TIGHT FITTING JOINTS, WHICH SHALL BE LAID IN ROWS PARALLEL TO THE CONTOUR LINES. ALL SODDED AREAS SHALL BE ROLLED TO ACHIEVE A SMOOTH, UNIFORM LAWN.

4. SEEDED AREAS SHALL BE GRASSED AS SPECIFIED PER PLAN AT THE RATE INDICATED. SEED MAY BE APPLIED EITHER BY A MECHANICAL SPREADER OR BY HYDROSEEDING. WHICHEVER METHOD IS CHOSEN, A THICK STAND OF GRASS SHALL BE ACHIEVED WITHIN 21 DAYS OR A SECOND OVERSEEDING WILL BE REQUIRED.

5. FERTILIZATION AND SOIL AMENDMENTS FOR ALL GRASSED AREAS SHALL BE AS PER LABORATORY ANALYSIS. HYDROSEEDING MAY BE SUBSTITUTED FOR MECHANICAL SEEDING BY MIXING SEED, FERTILIZER, AND PULVERIZED MULCH IN WATER, USING EQUIPMENT SPECIFICALLY DESIGNED FOR HYDROSEED APPLICATION. MIX UNTIL UNIFORMLY BLENDED INTO AN HOMOGENEOUS SLURRY SUITABLE FOR HYDRAULIC APPLICATION. APPLY UNIFORMLY AT A RATE AS REQUIRED TO OBTAIN SPECIFIED SEEDING RATE.

6. ANY EXISTING LAWN AREA DISTURBED BY CONSTRUCTION IS TO BE REPAIRED TO ITS ORIGINAL CONDITION BY SEEDING.

TREES AND SHRUBS:

1. ALL TREES LOCATED IN GRASSED AREAS SHALL BE PLANTED AS PER DETAIL AND MULCHED WITH AT LEAST A FOUR (4) FOOT DIAMETER OF SHREDDED BARK MULCH, TO A MINIMUM 3" DEPTH.

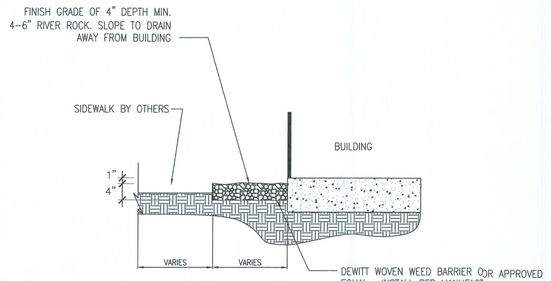
2. SHRUB BEDS SHALL BE MOUNDED WITH TOPSOIL A MINIMUM OF 6" ABOVE TOP OF CURB AND SHALL BE MULCHED WITH A 3" DEPTH OF SHREDDED BARK MULCH.

3. TREES SHALL BE PLANTED NO CLOSER THAN FIVE (5) FEET FROM BACK OF SIDEWALK OR BUILDING STRUCTURE.

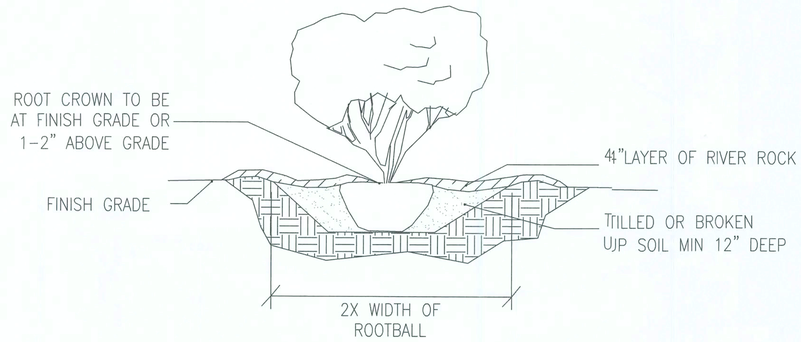
4. LOCATION AND LAYOUT IF ALL SHRUBS AND TREES SHALL BE APPROVED BY LANDSCAPE ARCHITECT.

5. ALL TREE PROTECTION DEVICES ARE TO BE INSTALLED PRIOR TO START OF LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED.

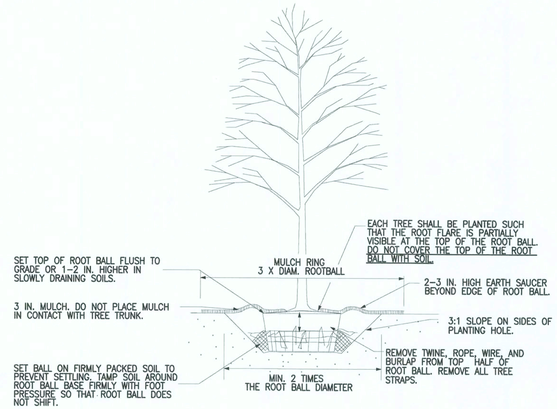
6. ALL TREES ARE TO BE STAKED AND GUYED PER PLANTING DETAILS.



4-6" DEPTH RIVER ROCK AT BUILDING
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE



NOTES
1. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. ALL PRUNING SHALL CONFORM TO ANSI A300 STANDARDS. IMPROPERLY PRUNED TREES MAY BE REJECTED BY THE CITY.

TREE PLANTING
NOT TO SCALE

NOTE:
-SELECT DEADMAN, ANCHORS, OR STAKES TO SECURE TREE

NOTES
1. STAKE ALL TREES. STAKES SHALL BE REMOVED 6 MONTHS AFTER PLANTING.
2. TREES LARGER THAN 2" CALIPER SHOULD BE STAKED BY THREE GUY STRAPS WHEN NECESSARY.

TREE STAKING
NOT TO SCALE

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ISSUE	BY	DATE	DESCRIPTION

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STATE OF FLORIDA
7-2-19

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CERTIFICATE OF AUTHORIZATION NO. 31457

SIGNATURE DATE

PROJECT INFORMATION BLOCK

JOB #	188014
DATE:	09-19-2019
DRAWN BY:	Author
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SHEET TITLE

LANDSCAPE DETAILS

SHEET NUMBER

L101

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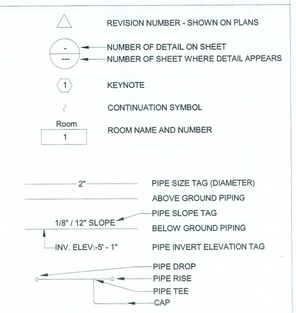
FIRE PROTECTION ABBREVIATIONS

&	AND
AB	ABOVE BASE
ABV	ABOVE
ACOUS	ACOUSTICAL
ADD	ADDENDUM
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GROUND
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AUTO	AUTOMATIC
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BO	BY OTHER
BOT	BOTTOM
BTWN	BETWEEN
CAP	CAPACITY
COW	COUNTER CLOCKWISE
CLG	CEILING
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECT
CONST	CONSTRUCTION
CONT	CONTINUE/CONTINUATION
CONTR	CONTRACT/CONTRACTOR
COORD	COORDINATE
CTR	CENTER
CUFT	CUBIC FEET
CW	COLD WATER
[illegible]	[illegible]
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EL	ELBOW
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXPJT	EXPANSION JOINT
EXT	EXTERIOR
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FL	FLOOR
FLG	FLANGE
FP	FIRE PUMP
FPM	FEET PER MINUTE
FS	FULL SIZE
FT	FOOT/FEET
FTG	FOOTING
FUT	FUTURE
GA	GAGE/GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GENL	GENERAL
GPM	GALLONS PER MINUTE
GR	GRADE
HD	HEAD
HP	HORSE POWER
HYD	HYDRANT
ID	INDIRECT
IN	INCH
INL	INLET
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
INWG	INCHES WATER GAUGE
JST SPC	JOIST SPACE
JT	JOINT
LF	LINEAL FOOT
LOC	LOCATION
LP	LOW PRESSURE
MAN	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OF	OVERFLOW
OPNG	OPENING
PD	PRESSURE DROP
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PR	PAIR
PREL	PRELIMINARY
PRESS	PRESSURE
PRIM	PRIMARY
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
REC	RECESSED
RED	REDUCER
REQD	REQUIRED
REV	REVERSE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FOOT
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SLV	SLEEVE
SM	SURFACE MOUNT
SP	STANDPIPE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPS	STATIC PRESSURE STATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STRUCT	STRUCTURAL
SUCT	SUCTION
SUSP	SUSPENDED
TYP	TYPICAL
UG	UNDERGROUND
VEL	VELOCITY
VERT	VERTICAL
VOL	VOLUME

FIRE PROTECTION SYMBOLS



FIRE PROTECTION GENERAL NOTES

NO EXCLUSIONS FROM OR LIMITATIONS IN THE LANGUAGE USED IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS MEANING THAT THE EQUIPMENT, APPURTENANCES, AND/OR ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM ARE NOT TO BE PROVIDED AS REQUIRED. THE SEPARATE DIVISIONAL CONTRACT DOCUMENTS DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DIVISIONAL CONTRACT DOCUMENTS. REVIEW AND COORDINATE THE SCOPE OF WORK WITH ALL DOCUMENTS AND TRADES TO ASSURE A COMPLETE AND FUNCTIONAL SYSTEM IS BID AND INSTALLED.

REFER TO FIRE PROTECTION BOOK SPECIFICATIONS FOR MORE PROJECT REQUIREMENTS AND INFORMATION.

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED TO COMMENCE AND COMPLETE FIRE PROTECTION WORK.

SUBMIT FULL SUBMITTALS OF ALL FIRE PROTECTION EQUIPMENT AND MATERIALS TO THE ENGINEER FORE REVIEW WHETHER IT IS EXACTLY AS SPECIFIED OR NOT. WHERE ALTERNATE MANUFACTURERS ARE LISTED IN THE BOOK SPECIFICATIONS, ONE OF THOSE MANUFACTURERS SHALL BE PROVIDED UNLESS A REQUEST FOR SUBSTITUTION HAS BEEN SUBMITTED PRIOR TO BID AND THE MANUFACTURER SUBSEQUENTLY IS LISTED AS AN ACCEPTABLE MANUFACTURER IN AN ADDENDUM. FOR ALL EQUIPMENT WHICH HAS BEEN SCHEDULED DIRECTLY ON THE DESIGN DRAWINGS, PROVIDE WITHIN THE SUBMITTAL A PERFORMANCE SCHEDULE FOR THE PROPOSED EQUIPMENT IN THE SAME FORMAT AS INCLUDED ON THE DRAWINGS. FAILURE TO PROVIDE REQUIRED PERFORMANCE SCHEDULE WILL RESULT IN REJECTION OF THE ENTIRE SUBMITTAL.

BIND COMPLETE SUBMITTALS IN A THREE RING BINDER(S) WITH A TITLE SHEET AND IDENTIFICATION ON FRONT AND SIDE OF THE BINDER. CONTACT ENGINEER FOR PRIOR APPROVAL TO SUBMIT PDF EMAILED SUBMITTALS. SUBMIT ALL HVAC PRODUCTS SUBMITTALS ALL AT ONE TIME. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED FOR REVIEW AND APPROVAL. INDEX ALL ITEMS AS APPLICABLE. SUBMITTALS THAT DEVIATE FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL LIST ALL DIFFERENCES IN A COVER LETTER ATTACHED TO FRONT OF THE SUBMITTAL. ANY UNLISTED DEVIATIONS FOUND DURING REVIEW WILL RESULT IN THE REJECTION OF THE ENTIRE SUBMITTAL. FOR ITEMS REVIEWED AND MARKED "REJECTED" OR "REVISE AND RESUBMIT", ONLY ONE ADDITIONAL RE-SUBMITTAL WILL BE REVIEWED TO VERIFY PRODUCT COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOULD FURTHER SUBMITTALS BE REQUIRED BY THE ENGINEER TO VERIFY THE SUBMITTAL WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE HOURLY RATE OF $150.00 WILL BE BILLED TO THE CONTRACTOR FOR THE ENGINEER'S TIME SPENT ON THE REVIEW.

THE CONTRACT DOCUMENTS AND SUBMITTALS OF ALL TRADES SHALL BE COORDINATED AND BE VIEWED IN CONNECTION AND CONJUNCTION WITH EACH OTHER TO INSURE THE PROPER LOCATION AND INSTALLATION OF ALL DEVICES AND EQUIPMENT. MAKE PARTICULAR NOTE OF LOCATIONS AND DIMENSIONS SHOWN ON THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.6 FIRE PROTECTION DRAWINGS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE FIRE PROTECTION SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR IN COORDINATION WITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SUBMITTALS, AND SIMILAR CERTIFIED DATA.

ALL FIRE PROTECTION EQUIPMENT INSTALLED OUTDOORS SHALL BE SECURED TO ITS SUPPORT AS DETAILED BY THE STRUCTURAL ENGINEER FOR THE REQUIRED WIND LOAD DESIGN.

ALL EXPOSED MATERIALS SHALL BE CONSTRUCTED OF NON-FERROUS MATERIALS AND BE PAINTED WITH TWO COATS OF RUST INHIBITOR PAINT.

INSTALL AND TEST ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN ADEQUATE SERVICE SPACE AS REQUIRED. SERVICE SPACE SHALL BE CLEAR OF DUCTS, PIPES, CONDUITS, WALL STUDS, CEILING HANGERS, AND ANY OTHER CONSTRUCTION APPURTENANCE.

CONTRACTOR SHALL COORDINATE AND PROVIDE ALL CEILING/FLOOR/WALL ACCESS PANELS THAT MAY BE REQUIRED FOR THE INSTALLATION, INSPECTION, AND SERVICE OF FIRE PROTECTION EQUIPMENT WHETHER OR NOT IT IS SHOWN. ACCESS PANELS TO BE SELECTED BY THE ARCHITECT.

ALL FIRE PROTECTION EQUIPMENT SHALL BE LABELED WITH ENGRAVED, LAMINATED, PLASTIC SIGNS. SIGNS SHALL BE 1/8" THICK AND A MINIMUM OF 1-3/4" HIGH WITH 1" HIGH LETTERS. LENGTH OF THE SIGN SHALL BE THE SUM OF THE LETTERS/NUMBERS PLUS 3/4" ON EACH END. EXTERIOR SIGNS SHALL BE UV RATED, DESIGNATED AND MANUFACTURED TO BE EXPOSED TO THE ELEMENTS.

AT PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 40 HOURS OF TRAINING ON THE OPERATION AND MAINTENANCE OF THE FIRE PROTECTION EQUIPMENT.

CONTRACTOR SHALL PROVIDE A ONE YEAR WARRANTY ON PARTS AND LABOR FROM THE DATE OF SUBSTANTIAL COMPLETION.

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.

SPRINKLERS SHALL BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, FIRE ALARM DEVICES, AND CEILING SYSTEMS. SPACING OF SPRINKLERS SHALL BE IN ACCORDANCE WITH NFPA 13 AND THE LISTING OF THE SPRINKLER.

SPRINKLERS SHALL BE CENTERED IN THE CEILING TILE AS INDICATED ON THE DRAWINGS. PROVIDE RETURN BENDS OR SWING JOINTS AS REQUIRED.

SPRINKLER PIPING IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF THE SPACE.

A MINIMUM OF EIGHTEEN INCHES (18") CLEARANCE SHALL BE MAINTAINED BETWEEN TOP OF STORAGE AND CEILING SPRINKLER DEFLECTORS.

THE DISTANCE FROM WALLS TO SPRINKLERS SHALL NOT EXCEED ONE-HALF OF THE ALLOWABLE DISTANCE BETWEEN SPRINKLERS. SPRINKLERS SHALL BE LOCATED A MINIMUM OF SIX INCHES (6") FROM WALLS, SOFFITS, SURFACE MOUNTED LIGHTS, ETC OR OBSTRUCTION RULES PER NFPA 13.

THE SUPPORT SYSTEMS OF THE BUILDING HAVE ADEQUATE LOAD CARRYING CAPACITY FOR A 5 PSF DEAD LOAD WHICH WILL BE CONTRIBUTED BY THE FIRE SPRINKLER, PLUMBING, HVAC, AND ELECTRICAL SYSTEMS. COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL PENETRATIONS.

ANY DUCTILE IRON PIPING (DIP) USED EXCLUSIVELY FOR FIRE PROTECTION SYSTEMS SHALL NOT COME INTO CONTACT WITH ANY MASONRY; PIPING SHALL BE SLEEVED WITH AN APPROVED MATERIAL.

PROVIDE A PERMANENTLY ATTACHED NAME TAG ATTACHED TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.

PROVIDE SPRINKLERS UNDER ALL EXPOSED DUCTWORK OVER 48" WIDE AND SPACE SPRINKLERS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. SPRINKLERS UNDER DUCTWORK ARE NOT INDICATED ON THE DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS OF THE DUCT OR OBSTRUCTION.10 PROVIDE SPRINKLER CAGES ON ALL SPRINKLERS IN ELECTRIC ROOMS, DATA ROOMS, MECHANICAL ROOMS, AND ON ANY SPRINKLER LESS THAN 7'-0" ABOVE FLOOR.

COORDINATE SPRINKLER PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY SPRINKLER PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY SPRINKLER PIPING RUN OVER ELECTRICAL PANELS/EQUIPMENT SHALL BE REROUTED AT NO ADDITIONAL COST TO THE OWNER.

THE FLOW SWITCHES SHALL BE WIRED TO THE BUILDING FIRE ALARM SYSTEM. THE TAMPER SWITCHES LOCATED ON THE FLOOR CONTROL VALVE, FIRE PUMP ASSEMBLY, ELEVATOR CONTROL VALVES, AND BACKFLOW PREVENTER SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM. REFER TO THE ELECTRICAL DRAWINGS FOR THE FIRE ALARM SYSTEM.

COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND FURNISH EQUIPMENT WIRED FOR THE REQUIRED VOLTAGE. PROVIDE STATEMENT INDICATING THIS HAS OCCURRED WITH THE SHOP DRAWING SUBMITTALS.14

FIRE PROTECTION CODE CRITERIA

THE FOLLOWING IS A LIST OF ALL CODES ADOPTED DECEMBER 31, 2017 BY THE STATE FIRE MARSHALL'S RULE 69A3.012 F.A.C.:

- FLORIDA BUILDING CODE 6TH EDITION (2017) - ALL SECTIONS
- FLORIDA ENERGY EFFICIENCY CODE (FBC 2017), FLORIDA ENERGY CODE SOFTWARE: ENERGYGAUGE USA VERSION 6.00
- FLORIDA FIRE PREVENTION CODE 6TH EDITION (2017)

69A-3.012 STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION ADOPTED.
(1) EXCEPT AS SPECIFICALLY MODIFIED BY STATUTE OR BY THE STATE FIRE MARSHAL'S RULES, THE "FLORIDA FIRE PREVENTION CODE, 6TH EDITION (2017)," WHICH IS COMPRISED OF THE FLORIDA SPECIFIC EDITION OF NFPA 101, THE LIFE SAFETY CODE (2015 EDITION) AND THE FLORIDA SPECIFIC EDITION OF NFPA 1, THE FIRE CODE (2015 EDITION), ARE HEREBY ADOPTED AND INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THOSE BUILDINGS AND STRUCTURES SPECIFIED IN PARAGRAPHS (A) AND (B) OF SUBSECTION (1) OF SECTION 633.206, F.S. IN ADDITION, THE FOLLOWING STANDARDS, EXCEPT AS SPECIFICALLY MODIFIED IN THE RULE CHAPTERS IN RULE TITLE 69A, ARE HEREBY ADOPTED AND INCORPORATED BY REFERENCE AND SHALL TAKE EFFECT ON THE EFFECTIVE DATE OF THIS RULE, AS A PART OF THE UNIFORM FIRE SAFETY STANDARDS ADOPTED BY RULE BY THE STATE FIRE MARSHAL AND ARE APPLICABLE TO THOSE BUILDINGS AND STRUCTURES SPECIFIED IN PARAGRAPHS (A) AND (B) OF SUBSECTION (1) OF SECTION 633.206, F.S.:

- NFPA 13, 2013 EDITION, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- NFPA 70, 2014 EDITION, NATIONAL ELECTRIC CODE
- NFPA 72, 2013 EDITION, NATIONAL FIRE ALARM AND SIGNALING CODE
- NFPA 241, 2013 EDITION, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS

OTHER:

- LOCAL CODES AND ORDINANCES

NOTE: TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THESE FIRE PROTECTION DESIGN DRAWINGS COMPLY WITH THE ABOVE CODE CRITERIA. WHEN TWO OR MORE CODES OR STANDARDS ARE IN CONFLICT, THE MORE STRINGENT SHALL APPLY.

FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32 NOTES

1) THESE FIRE PROTECTION DRAWINGS AND BOOK SPECIFICATIONS PROVIDED BY EMERALD ENGINEERING, INC. ARE TO BE CONSIDERED PERFORMANCE SPECIFICATIONS ONLY AND NOT ENGINEER OF RECORD DRAWINGS. FIRE PROTECTION CONTRACTOR TO BE DESIGNER AND ENGINEER OF RECORD PER FLORIDA ADMINISTRATIVE CODE CHAPTER 61G15-32, PROVIDE SIGNED AND SEALED DOCUMENTS, AND SUBMIT FOR PERMIT.

2) THE FIRE PROTECTION CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE THE PREPARATION AND DESIGN OF THE FIRE PROTECTION SYSTEM ENGINEERING/LAYOUT DOCUMENTS. PROVIDE ALL EQUIPMENT, MATERIALS, COMPONENTS, ASSEMBLES, AND SUPPORT SYSTEM REQUIRED, AS REQUIRED BY APPLICABLE CODES. THE FIRE PROTECTION CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST AND PERFORM HYDRAULIC CALCULATIONS FOR DESIGN OF THE FIRE PROTECTIONS SYSTEM.

3) THESE FIRE PROTECTION DRAWINGS AND BOOK SPECIFICATIONS INDICATE GENERAL ARRANGEMENT OF THE FIRE PROTECTION SYSTEM AND COMPONENTS AND AREA DESIGN OCCUPANCIES.

4) FINAL DESIGN, APPROVAL, AND INSPECTION OF THE FIRE PROTECTION SYSTEM SHALL BE BY THE LOCAL FIRE MARSHAL (AHJ) AND ARCHITECT/ENGINEER.

FIRE PROTECTION DESIGN CRITERIA

1) THE BUILDING SHALL BE PROTECTED BY AN AUTOMATIC-WET PIPE SPRINKLER SYSTEM WITH DRY PIPE AREAS (WHERE INDICATED).

2) THE OCCUPANCY CLASSIFICATIONS OF THIS BUILDING, PER NFPA 13, SHALL BE: LOBBIES, CORRIDORS, DINING, OFFICES, RESTROOMS, AND SIMILAR AREAS SHALL BE DESIGNED PER LIGHT HAZARD OCCUPANCY, WITH A MINIMUM DENSITY OF 0.10 GPM OVER THE HYDRAULICALLY MOST DEMANDING 1500 SQUARE FEET OR PER NFPA 13, 11.2.3.2.3. TEMPERATURE RATING OF THE SPRINKLERS SHALL BE 155º OR AS INDICATED ON DRAWINGS. SPACING BETWEEN STANDARD COVERAGE SPRINKLERS SHALL BE A MINIMUM OF 6' AND A MAXIMUM OF 15' (SPRINKLERS 225 SQUARE FEET) AND PER MANUFACTURER'S LITERATURE FOR EXTENDED COVERAGE SPRINKLERS.

KITCHENS, ELECTRICAL ROOMS, AND SIMILAR AREAS SHALL BE DESIGNED PER ORDINARY HAZARD GROUP I OCCUPANCY, WITH A MINIMUM DENSITY OF 0.15 GPM OVER THE HYDRAULICALLY MOST DEMANDING 1500 SQUARE FEET OR PER NFPA 13, 11.2.3.2.3. TEMPERATURE RATING OF THE SPRINKLERS SHALL BE 155º OR AS INDICATED ON DRAWINGS. SPACING BETWEEN STANDARD COVERAGE SPRINKLERS SHALL BE A MINIMUM OF 6' AND A MAXIMUM OF 15' (130 SQUARE FEET) AND PER MANUFACTURER'S LITERATURE FOR EXTENDED COVERAGE SPRINKLERS.

COOLERS, STORAGE ROOMS, AND SIMILAR AREAS SHALL BE DESIGNED PER ORDINARY HAZARD GROUP II OCCUPANCY, WITH A MINIMUM DENSITY OF 0.20 GPM OVER THE HYDRAULICALLY MOST DEMANDING 1500 SQUARE FEET OR PER NFPA 13, 11.2.3.2.3. TEMPERATURE RATING OF THE SPRINKLERS SHALL BE 155º OR AS INDICATED ON DRAWINGS. SPACING BETWEEN STANDARD COVERAGE SPRINKLERS SHALL BE A MINIMUM OF 6' AND A MAXIMUM OF 18' (130 SQUARE FEET) AND PER MANUFACTURER'S LITERATURE FOR EXTENDED COVERAGE SPRINKLERS.

3) MAIN PIPING SHALL BE GROOVED SCHEDULE 10 BLACK STEEL WITH GROOVED FITTINGS, BRANCH PIPING SHALL BE THREADED SCHEDULE 40 WITH THREADED CAST IRON FITTINGS OR GROOVED SCHEDULE 10 BLACK STEEL WITH GROOVED FITTINGS.

4) ALL EXPOSED SPRINKLER PIPING AND HEADS TO BE BLACK.

5) CEILING MOUNTED SPRINKLER HEADS IN PUBLIC AREAS SHALL BE SEMI-RECESSED WITH 1/2" DISCHARGE ORIFICE. CEILING MOUNTED SPRINKLER HEADS IN BACK OF HOUSE AREAS TO BE STANDARD CHROME PENDENT SPRINKLERS WITH SHORT ESCUTCHEON AND 1/2" DISCHARGE ORIFICE. DRY PIPE HEADS SHALL BE USED IN COOLERS.

6) CONCEALED WOOD TRUSS SPACE ABOVE CEILINGS SHALL BE FULLY SPRINKLERED.

7) ALL FIRE PROTECTION COMPONENTS SHALL BE LISTED AND TESTED FOR FIRE PROTECTION USE AND BE UL LISTED AND FM APPROVED.

8) THERE ARE NO KNOWN CONDITIONS THAT WOULD INDICATE MICROBIAL INDUCED CORROSION IS PRESENT IN THE WATER SYSTEMS OF THIS JURISDICTION AS UNUSUAL PIPE FAILURES HAVE NOT BEEN KNOWN TO OCCUR.

9) THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION(S) OF SPRINKLERS, PIPING, VALVES, ETC. TO ACCOMMODATE CONDITIONS WHICH MAY ARISE WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR FOR SUCH CHANGES, PROVIDED SUCH CHANGES ARE REQUESTED PRIOR TO THE INSTALLATION OF THE CONTRACTOR'S WORK. COORDINATE WITH ALL OTHER TRADES.

APPROVED (Subject to Revisions)
Life Safety Services
Code Hillsborough County Fire Rescue
Florida State Fire Inspector # 13846
By: _____ Date: 10-1-19

Sheet List - Fire Protection

Sheet Number	Sheet Name
F000	FIRE PROTECTION LEGENDS AND SYMBOLS
F001	FIRE PROTECTION SITE PLAN
F101	LEVEL 1 FIRE PROTECTION PLAN
F501	FIRE PROTECTION DETAILS

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THESE DRAWINGS ARE FIRE PROTECTION PERFORMANCE SPECIFICATIONS ONLY. FIRE PROTECTION CONTRACTOR TO BE DESIGNER AND ENGINEER OF RECORD. SEE SHEET F000 FOR MORE INFORMATION.

ISSUE	BY	DATE	DESCRIPTION
1			

PROJECT INFORMATION BLOCK

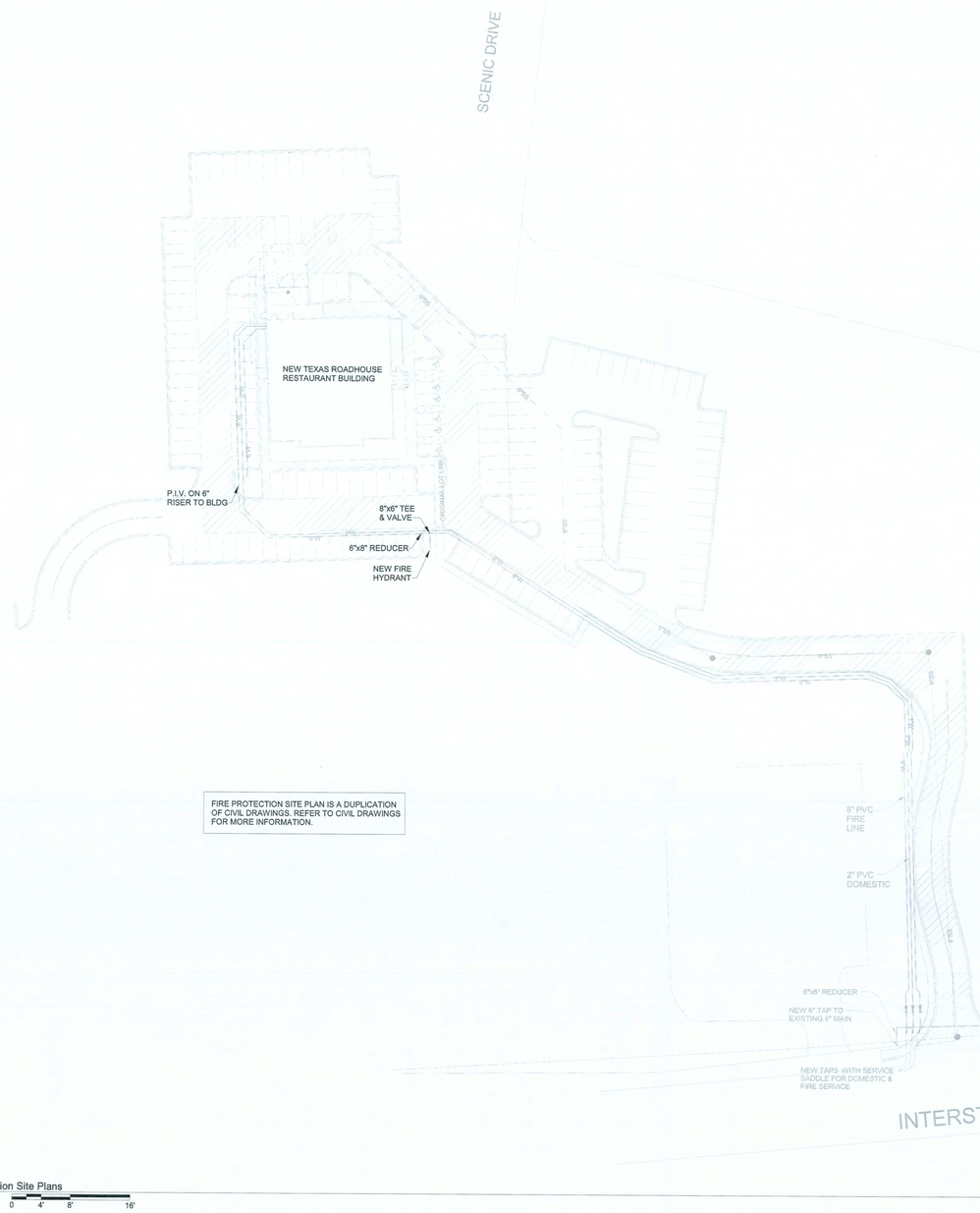
JOB #	188014
DATE:	09/19/2019
DRAWN BY:	KH
CHECKED BY:	MC

SHEET TITLE

FIRE PROTECTION LEGENDS AND SYMBOLS

SHEET NUMBER

F000



FIRE PROTECTION SITE PLAN IS A DUPLICATION OF CIVIL DRAWINGS. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION.

1 / F001 Fire Protection Site Plans
1" = 40'-0"
0 4' 8' 16'

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ISSUE	BY	DATE	DESCRIPTION
1			

PROJECT INFORMATION BLOCK

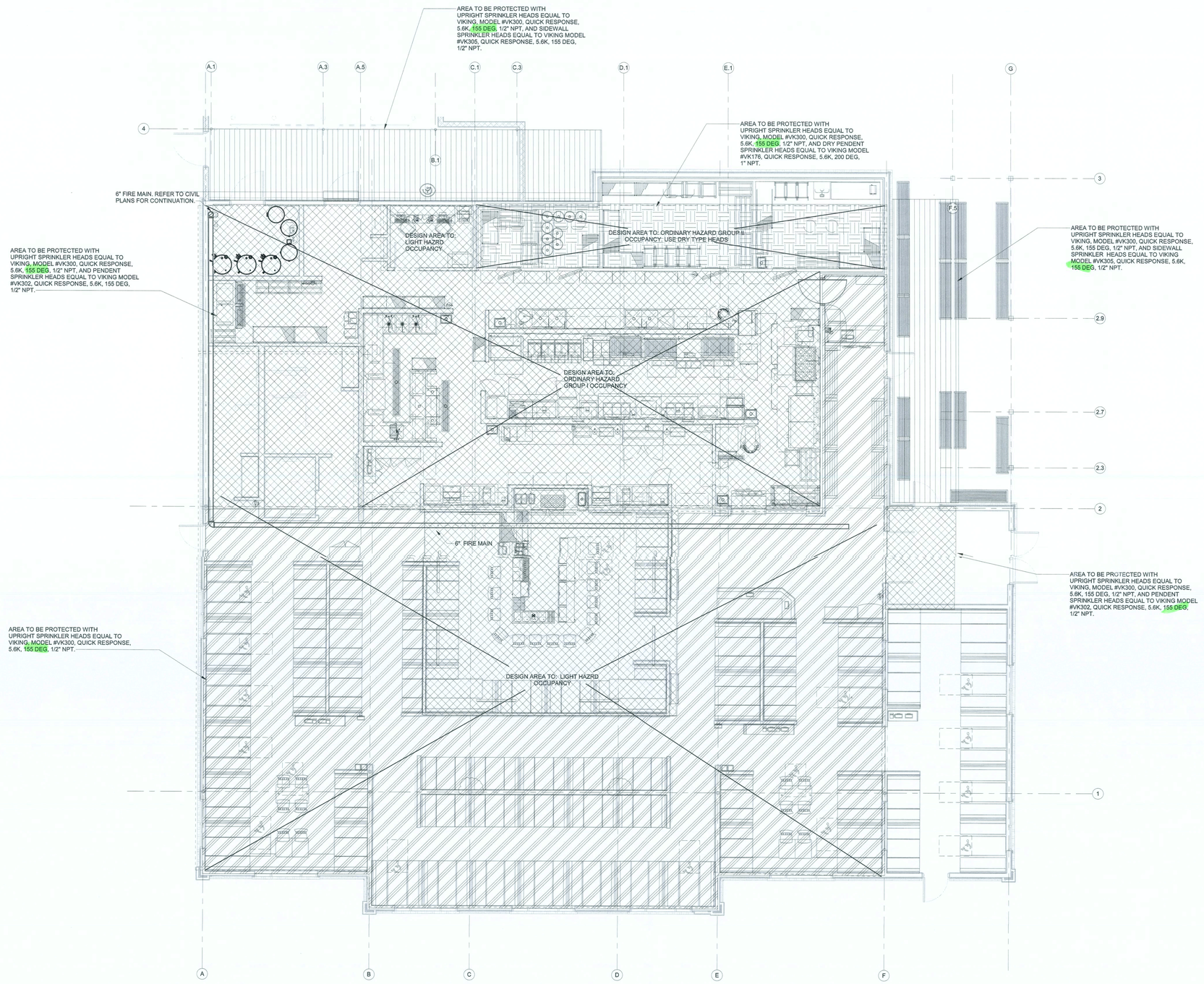
JOB #	188014
DATE:	09/19/2019
DRAWN BY:	KH
CHECKED BY:	MC

SHEET TITLE

FIRE PROTECTION SITE PLAN

SHEET NUMBER

F001



1 F101 LEVEL 1 FIRE PROTECTION PLAN
3/16" = 1'-0"
0 2' 4' 8'

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ISSUE	BY	DATE	DESCRIPTION
1			

PROJECT INFORMATION BLOCK

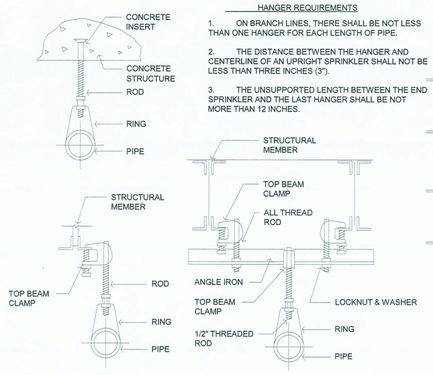
JOB #	188014
DATE:	09/19/2019
DRAWN BY:	KH
CHECKED BY:	MC

SHEET TITLE

LEVEL 1 FIRE PROTECTION PLAN

SHEET NUMBER

F101



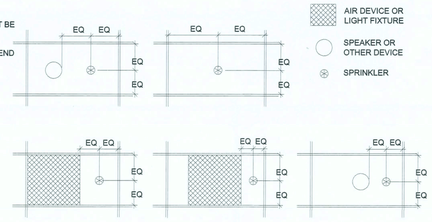
HANGER REQUIREMENTS

1. ON BRANCH LINES, THERE SHALL BE NOT LESS THAN ONE HANGER FOR EACH LENGTH OF PIPE.

2. THE DISTANCE BETWEEN THE HANGER AND CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN THREE INCHES (3").

3. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER SHALL BE NOT MORE THAN 12 INCHES.

4 F501 SPRINKLER PIPING SUPPORT
NO SCALE

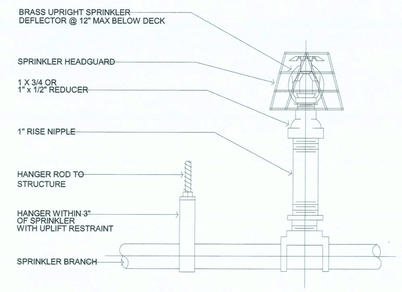


CEILING LEGEND

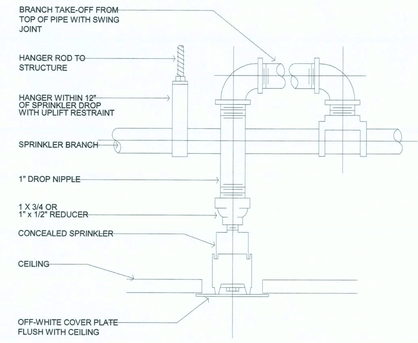
- AIR DEVICE OR LIGHT FIXTURE
- SPEAKER OR OTHER DEVICE
- SPRINKLER

SPRINKLERS IN GRID CEILING SYSTEMS SHALL BE LOCATED AT THE MIDPOINT OR QUARTERPOINT OF THE FOUR FOOT (4') DIMENSION AND THE MIDPOINT OF THE TWO FOOT (2') DIMENSION. WHERE A CONFLICT OCCURS, SYMMETRY ABOUT THE AXIS SHALL BE MAINTAINED.

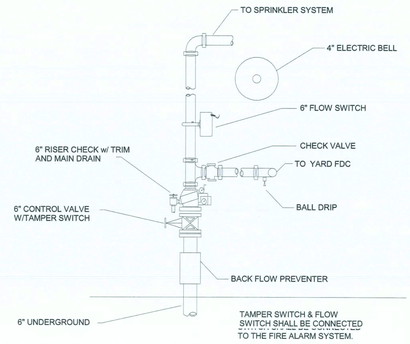
3 F501 SPRINKLER HEAD CEILING MOUNTING
NO SCALE



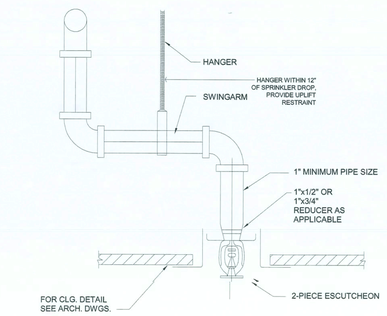
2 F501 UPRIGHT SPRINKLER HEAD
NO SCALE



1 F501 CONCEALED SPRINKLER HEAD
NO SCALE



6 F501 FIRE RISER
NO SCALE



5 F501 DRY SIDEWALL SPRINKLER HEAD
NO SCALE

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ISSUE	BY	DATE	DESCRIPTION

PROJECT INFORMATION BLOCK

JOB #	188014
DATE:	09/19/2019
DRAWN BY:	KH
CHECKED BY:	MC

SHEET TITLE

FIRE PROTECTION DETAILS

SHEET NUMBER

F501