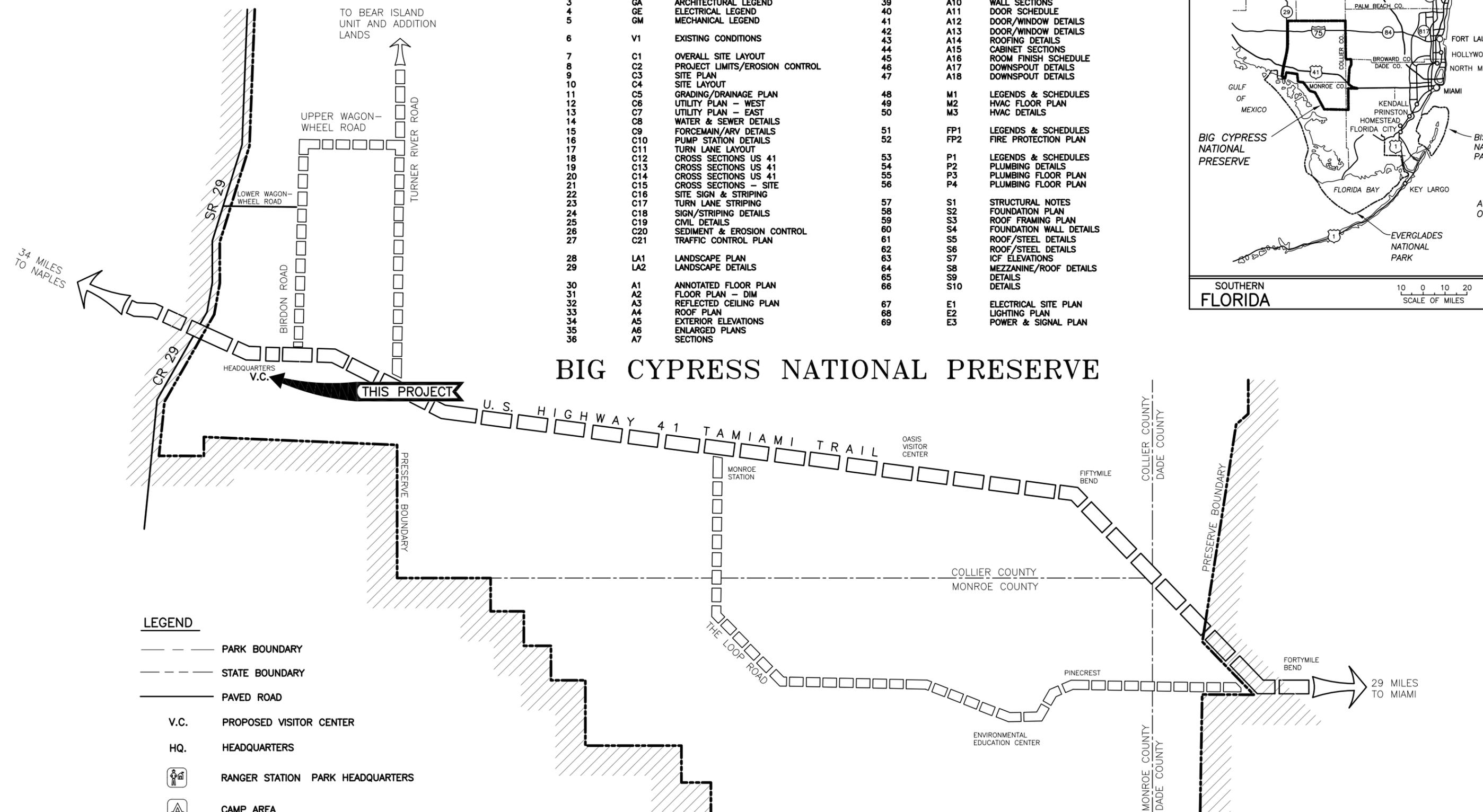
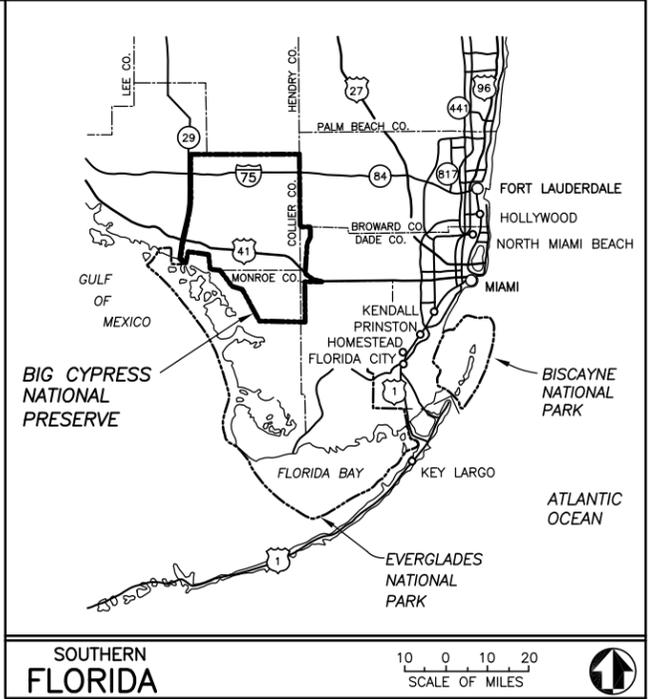


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- LEGEND**
- PARK BOUNDARY
  - STATE BOUNDARY
  - PAVED ROAD
  - V.C. PROPOSED VISITOR CENTER
  - HQ. HEADQUARTERS
  - RANGER STATION PARK HEADQUARTERS
  - CAMP AREA

# BIG CYPRESS NATIONAL PRESERVE

PROJ. NO. BICY 61948 & 110159

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HDR ENGINEERING, INC. 1443C20000		Mark	Sheet	REVISION	Date	Initial	QUALITY DESIGN CERTIFICATION			<b>CONSTRUCTION DRAWINGS</b> UNITED STATES DEPARTMENT OF THE INTERIOR  NATIONAL PARK SERVICE DENVER SERVICE CENTER	TITLE OF DRAWING <b>TAMIAMI TRAIL WELCOME CENTER</b> LOCATION WITHIN PARK <b>TAMIAMI TRAIL WELCOME CENTER</b> NAME OF PARK <b>BIG CYPRESS NATIONAL PRESERVE</b> REGION COUNTY STATE SOUTHEAST COLLIER MONROE FLORIDA		DRAWING NO. <b>176</b> OF <b>41,009</b>
PRIME: HDR ENGINEERING PENSACOLA, FL	ARCH: J. KLEIN ARCHITECTS PENSACOLA, FL STR: KILLAM ENGINEERING PENSACOLA, FL	MECH: MEP ENGINEERING PENSACOLA, FL ELEC: KLOCKE ASSOCIATES PENSACOLA, FL					<input type="checkbox"/> Prepared in Accordance with Design Development (Title I) OR <input type="checkbox"/> Variance from Design Development (Title I) Approved by Superintendent on _____ Date OR <input type="checkbox"/> Construction Drawing Not Preceded by Design Development (Title I)	Project Manager _____ Date _____			PKG. NO. <b>61948</b> 110159	SHEET <b>1</b> OF <b>69</b>	

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SITE PLAN SYMBOLOGY	MATERIALS IN PLAN/SECTION	GENERAL SYMBOLOGY	IDENTIFICATION SYMBOLOGY	SHEET NAMING CONVENTION																																																																																																						
				<p><b>AREA DESIGNATION</b></p> <p>TO BE EDITED ON AN A PROJECT BASIS. TO BE DETERMINED BY THE PROJECT MANAGER, THEN ADDED TO THE GENERAL LEGEND.</p> <p>EXAMPLE: 01 BUILDING OR AREA NAME 02 BUILDING OR AREA NAME 03 BUILDING OR AREA NAME</p> <p><b>DISCIPLINE DESIGNATOR &amp; DISCIPLINE ORDER</b></p> <table border="1"> <tr><td>G</td><td>GENERAL</td></tr> <tr><td>V</td><td>SURVEYING/MAPPING</td></tr> <tr><td>X</td><td>DEMOLITION</td></tr> <tr><td>C</td><td>CIVIL</td></tr> <tr><td>U</td><td>MULTI-DISCIPLINE</td></tr> <tr><td>S</td><td>STRUCTURAL</td></tr> <tr><td>A</td><td>ARCHITECTURAL</td></tr> <tr><td>D</td><td>PROCESS</td></tr> <tr><td>M</td><td>MECHANICAL (HVAC)</td></tr> <tr><td>P</td><td>PLUMBING</td></tr> <tr><td>E</td><td>ELECTRICAL</td></tr> <tr><td>Y</td><td>INSTRUMENTATION</td></tr> </table> <p><b>DRAWING TYPE DESIGNATOR</b></p> <table border="1"> <tr><td>0</td><td>GENERAL (SYMBOLS, LEGENDS)</td></tr> <tr><td>1</td><td>PLANS</td></tr> <tr><td>2</td><td>ELEVATIONS</td></tr> <tr><td>3</td><td>SECTIONS</td></tr> <tr><td>4</td><td>LARGE SCALE VIEWS</td></tr> <tr><td>5</td><td>DETAILS</td></tr> <tr><td>6</td><td>SCHEDULES AND DIAGRAMS</td></tr> <tr><td>8</td><td>PROFILES</td></tr> <tr><td>9</td><td>3D REPRESENTATIONS</td></tr> </table> <p><b>EXAMPLE</b></p> <p>GRAVITY THICKENER ARCHITECTURAL SECTION, DRAWING 01</p> <table border="1"> <tr><td>0</td><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td colspan="6">AREA DESIGNATION</td></tr> <tr><td></td><td></td><td>A</td><td></td><td></td><td></td></tr> <tr><td colspan="6">DISCIPLINE DESIGNATOR</td></tr> <tr><td></td><td></td><td>-</td><td></td><td></td><td></td></tr> <tr><td colspan="6">SPACER</td></tr> <tr><td></td><td></td><td></td><td>3</td><td></td><td></td></tr> <tr><td colspan="6">DRAWING TYPE DESIGNATOR</td></tr> <tr><td></td><td></td><td></td><td></td><td>0</td><td>1</td></tr> <tr><td colspan="6">DRAWING NUMBER</td></tr> </table> <p><b>NOTES:</b></p> <p>1. THIS IS A STANDARD PROCESS. GENERAL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.</p> <p><b>GENERAL NOTES:</b></p> <p>1. THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY; ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.</p> <p>2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.</p>	G	GENERAL	V	SURVEYING/MAPPING	X	DEMOLITION	C	CIVIL	U	MULTI-DISCIPLINE	S	STRUCTURAL	A	ARCHITECTURAL	D	PROCESS	M	MECHANICAL (HVAC)	P	PLUMBING	E	ELECTRICAL	Y	INSTRUMENTATION	0	GENERAL (SYMBOLS, LEGENDS)	1	PLANS	2	ELEVATIONS	3	SECTIONS	4	LARGE SCALE VIEWS	5	DETAILS	6	SCHEDULES AND DIAGRAMS	8	PROFILES	9	3D REPRESENTATIONS	0	5					AREA DESIGNATION								A				DISCIPLINE DESIGNATOR								-				SPACER									3			DRAWING TYPE DESIGNATOR										0	1	DRAWING NUMBER					
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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: <b>GG</b>	SUB SHEET NO. <b>GG</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER GENERAL LEGEND</b>	DRAWING NO. <b>176</b> <b>41,009</b> PMIS/PKG NO. 61948/110159 SHEET <b>2</b> of <b>69</b>
	TECH. REVIEW:		<b>GG</b>	
	DATE: 02/2008		BIG CYPRESS NATIONAL PRESERVE	

## ARCHITECTURAL ABBREVIATIONS

&	AND
ABV.	ABOVE
ABBR.	ABBREVIATIONS
A/C	AIR CONDITIONING UNIT
A.F.F.	ABOVE FINISHED FLOOR
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
BLDG.	BUILDING
CADD	COMPUTER AIDED DRAFTING AND DESIGN
CLG.	CEILING
DWG.	DRAWING
EL.	ELEVATION
EQ.	EQUAL
EXST.	EXISTING
FL.	FLOOR
LF.	LINEAR FOOT
MATL.	MATERIAL
MECH.	MECHANICAL
MPE.	MECHANICAL PLUMBING ELECTRICAL
NO.	NUMBER
PKG.	PACKAGE
REQ.	REQUIRE
SECT.	SECTION
SQ. FT.	SQUARE FOOT
SYMB.	SYMBOL
TECH.	TECHNICAL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD

## ARCHITECTURAL SYMBOLS

	DOOR NUMBER DESIGNATION
	WINDOW DESIGNATION
	ROOM NUMBER DESIGNATION
	BUILDING SECTION/ EXTERIOR ELEVATION DESIGNATION
	INTERIOR ELEVATION MARK DRAWING ON WHICH ELEVATION IS LOCATED
	DETAIL OR SECTION NUMBER OR LETTER DRAWING ON WHICH DETAIL OR SECTION IS LOCATED
	EXTERIOR ELEVATION
	CENTER LINE
	SMOKE DETECTOR
	HEAT DETECTOR
	HANGING LIGHT FIXTURE
	SINGLE BULB FIXTURE
	HANGING SINGLE BULB
	RECESSED LIGHT
	SURFACE MOUNTED 3-BULB FIXTURE
	RECESSED FIXTURE
	EXHAUST REGISTER
	CEILING DIFFUSER
	TRACK LIGHT
	OUTLET
	SWITCH PLATE
	PLEXIGLAS PLATE (SIZE VARIES)
	MOTION DETECTOR
	THERMOSTAT
	FLOOR DRAIN

## ARCHITECTURAL MATERIALS

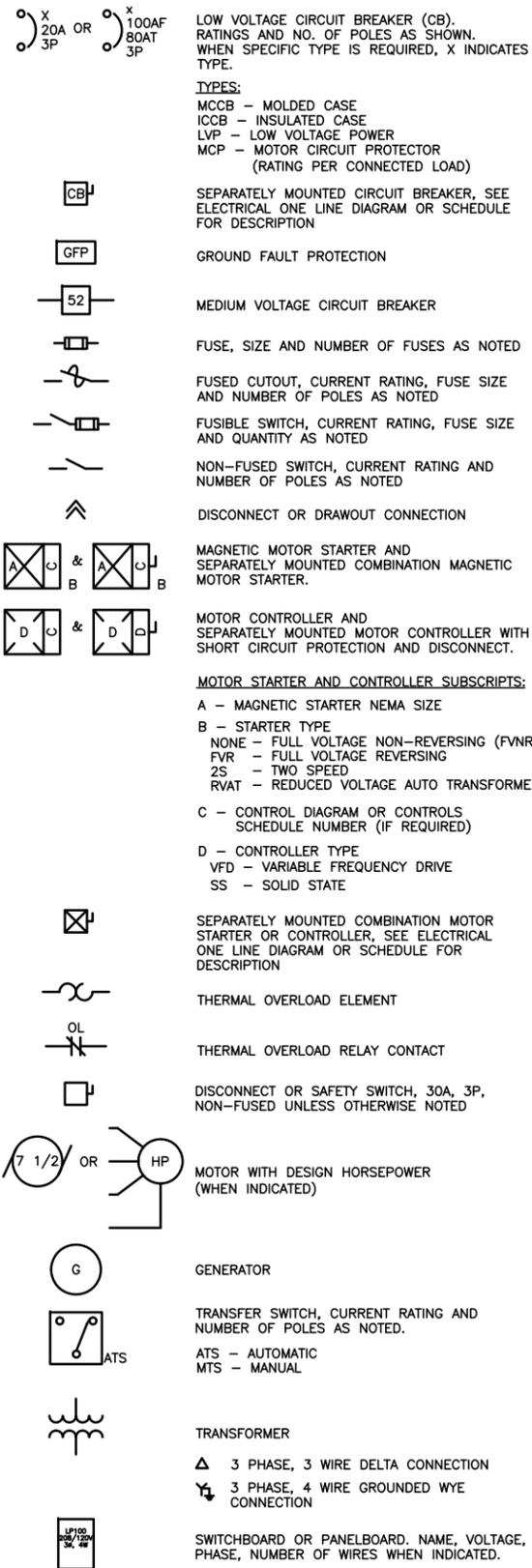
	ROUGH WOOD
	WOOD FLOOR
	PLYWOOD
	FINISHED WOOD
	WOOD ROOF SHINGLES
	WOOD SHINGLES
	BRICK
	PLASTER
	CONCRETE
	STUCCO
	RUBBLE STONEMWORK (REGULAR)
	RUBBLE STONEMWORK (RANDOM)
	MASONRY
	SHEET LINOLEUM FLOORING
	TILE FLOORING
	STANDING SEAM METAL ROOFING
	MARBLE
	PATTERNED WALLPAPER

## BUILDING CODE DATA

### GENERAL NOTES:

1. THIS IS A STANDARD PROCESS, ARCHITECTURAL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GADD	SUB SHEET NO.  GA	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER ARCHITECTURAL LEGEND	DRAWING NO. 176 41,009
	TECH. REVIEW:		BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET 3 of 69



LOW VOLTAGE CIRCUIT BREAKER (CB). RATINGS AND NO. OF POLES AS SHOWN. WHEN SPECIFIC TYPE IS REQUIRED, X INDICATES TYPE.

**TYPES:**  
 MCCB - MOLDED CASE  
 ICCB - INSULATED CASE  
 LVP - LOW VOLTAGE POWER  
 MCP - MOTOR CIRCUIT PROTECTOR (RATING PER CONNECTED LOAD)

SEPARATELY MOUNTED CIRCUIT BREAKER, SEE ELECTRICAL ONE LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

GROUND FAULT PROTECTION

MEDIUM VOLTAGE CIRCUIT BREAKER

FUSE, SIZE AND NUMBER OF FUSES AS NOTED

FUSED CUTOUT, CURRENT RATING, FUSE SIZE AND NUMBER OF POLES AS NOTED

FUSIBLE SWITCH, CURRENT RATING, FUSE SIZE AND QUANTITY AS NOTED

NON-FUSED SWITCH, CURRENT RATING AND NUMBER OF POLES AS NOTED

DISCONNECT OR DRAWOUT CONNECTION

MAGNETIC MOTOR STARTER AND SEPARATELY MOUNTED COMBINATION MAGNETIC MOTOR STARTER.

MOTOR CONTROLLER AND SEPARATELY MOUNTED MOTOR CONTROLLER WITH SHORT CIRCUIT PROTECTION AND DISCONNECT.

**MOTOR STARTER AND CONTROLLER SUBSCRIPTS:**  
 A - MAGNETIC STARTER NEMA SIZE  
 B - STARTER TYPE  
 NONE - FULL VOLTAGE NON-REVERSING (FVNR)  
 FVR - FULL VOLTAGE REVERSING  
 2S - TWO SPEED  
 RVAT - REDUCED VOLTAGE AUTO TRANSFORMER

C - CONTROL DIAGRAM OR CONTROLS SCHEDULE NUMBER (IF REQUIRED)

D - CONTROLLER TYPE  
 VFD - VARIABLE FREQUENCY DRIVE  
 SS - SOLID STATE

SEPARATELY MOUNTED COMBINATION MOTOR STARTER OR CONTROLLER, SEE ELECTRICAL ONE LINE DIAGRAM OR SCHEDULE FOR DESCRIPTION

THERMAL OVERLOAD ELEMENT

THERMAL OVERLOAD RELAY CONTACT

DISCONNECT OR SAFETY SWITCH, 30A, 3P, NON-FUSED UNLESS OTHERWISE NOTED

MOTOR WITH DESIGN HORSEPOWER (WHEN INDICATED)

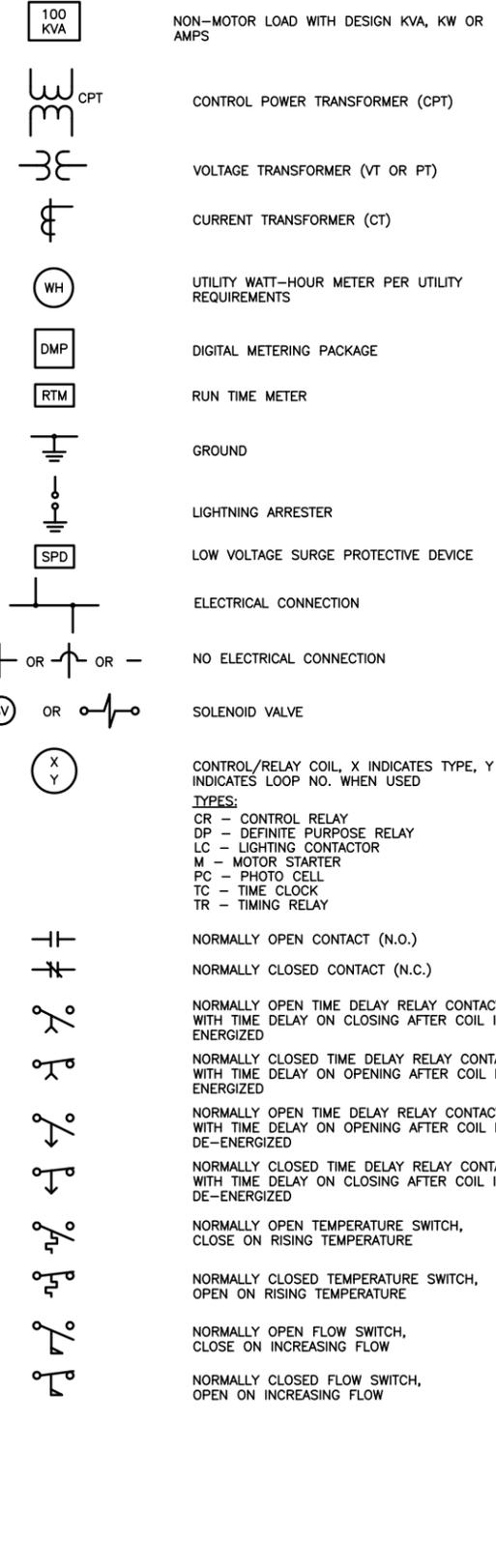
GENERATOR

TRANSFER SWITCH, CURRENT RATING AND NUMBER OF POLES AS NOTED.  
 ATS - AUTOMATIC  
 MTS - MANUAL

TRANSFORMER

3 PHASE, 3 WIRE DELTA CONNECTION  
 3 PHASE, 4 WIRE GROUNDED WYE CONNECTION

SWITCHBOARD OR PANELBOARD. NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED.



NON-MOTOR LOAD WITH DESIGN KVA, KW OR AMPS

CONTROL POWER TRANSFORMER (CPT)

VOLTAGE TRANSFORMER (VT OR PT)

CURRENT TRANSFORMER (CT)

UTILITY WATT-HOUR METER PER UTILITY REQUIREMENTS

DIGITAL METERING PACKAGE

RUN TIME METER

GROUND

LIGHTNING ARRESTER

LOW VOLTAGE SURGE PROTECTIVE DEVICE

ELECTRICAL CONNECTION

NO ELECTRICAL CONNECTION

SOLENOID VALVE

CONTROL/RELAY COIL, X INDICATES TYPE, Y INDICATES LOOP NO. WHEN USED

**TYPES:**  
 CR - CONTROL RELAY  
 DP - DEFINITE PURPOSE RELAY  
 LC - LIGHTING CONTACTOR  
 M - MOTOR STARTER  
 PC - PHOTO CELL  
 TC - TIME CLOCK  
 TR - TIMING RELAY

NORMALLY OPEN CONTACT (N.O.)

NORMALLY CLOSED CONTACT (N.C.)

NORMALLY OPEN TIME DELAY RELAY CONTACT, WITH TIME DELAY ON CLOSING AFTER COIL IS ENERGIZED

NORMALLY CLOSED TIME DELAY RELAY CONTACT, WITH TIME DELAY ON OPENING AFTER COIL IS ENERGIZED

NORMALLY OPEN TIME DELAY RELAY CONTACT, WITH TIME DELAY ON OPENING AFTER COIL IS DE-ENERGIZED

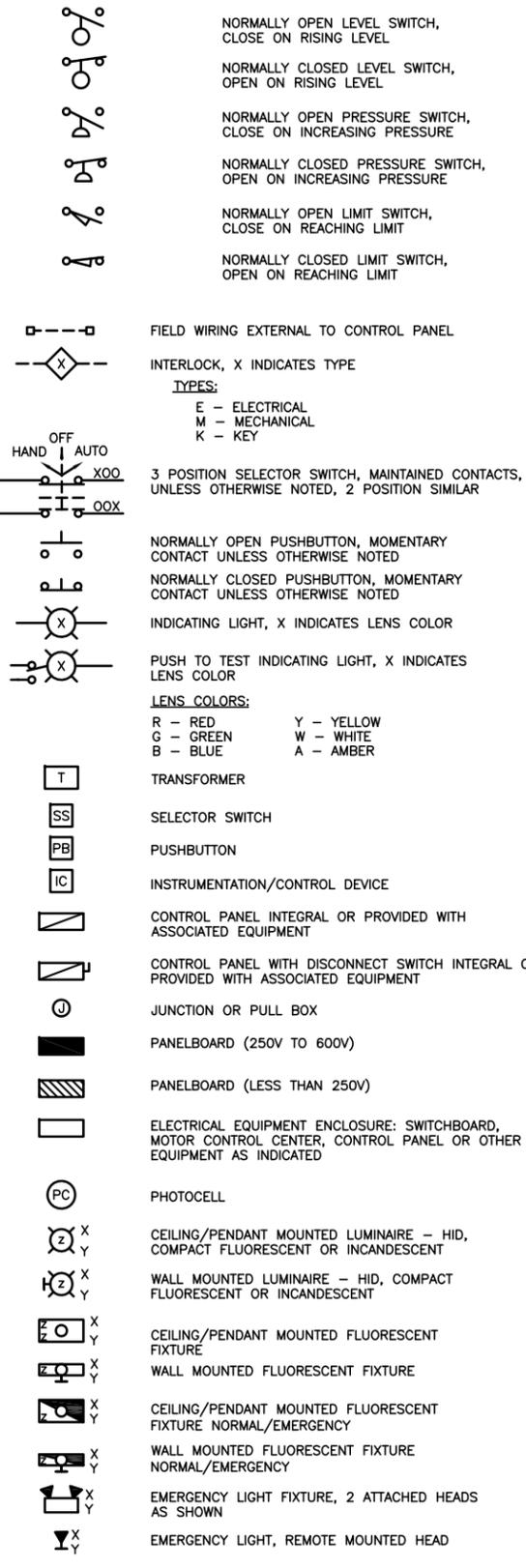
NORMALLY CLOSED TIME DELAY RELAY CONTACT, WITH TIME DELAY ON CLOSING AFTER COIL IS DE-ENERGIZED

NORMALLY OPEN TEMPERATURE SWITCH, CLOSE ON RISING TEMPERATURE

NORMALLY CLOSED TEMPERATURE SWITCH, OPEN ON RISING TEMPERATURE

NORMALLY OPEN FLOW SWITCH, CLOSE ON INCREASING FLOW

NORMALLY CLOSED FLOW SWITCH, OPEN ON INCREASING FLOW



NORMALLY OPEN LEVEL SWITCH, CLOSE ON RISING LEVEL

NORMALLY CLOSED LEVEL SWITCH, OPEN ON RISING LEVEL

NORMALLY OPEN PRESSURE SWITCH, CLOSE ON INCREASING PRESSURE

NORMALLY CLOSED PRESSURE SWITCH, OPEN ON INCREASING PRESSURE

NORMALLY OPEN LIMIT SWITCH, CLOSE ON REACHING LIMIT

NORMALLY CLOSED LIMIT SWITCH, OPEN ON REACHING LIMIT

FIELD WIRING EXTERNAL TO CONTROL PANEL

INTERLOCK, X INDICATES TYPE

**TYPES:**  
 E - ELECTRICAL  
 M - MECHANICAL  
 K - KEY

3 POSITION SELECTOR SWITCH, MAINTAINED CONTACTS, UNLESS OTHERWISE NOTED, 2 POSITION SIMILAR

NORMALLY OPEN PUSHBUTTON, MOMENTARY CONTACT UNLESS OTHERWISE NOTED

NORMALLY CLOSED PUSHBUTTON, MOMENTARY CONTACT UNLESS OTHERWISE NOTED

INDICATING LIGHT, X INDICATES LENS COLOR

PUSH TO TEST INDICATING LIGHT, X INDICATES LENS COLOR

**LENS COLORS:**  
 R - RED Y - YELLOW  
 G - GREEN W - WHITE  
 B - BLUE A - AMBER

TRANSFORMER

SELECTOR SWITCH

PUSHBUTTON

INSTRUMENTATION/CONTROL DEVICE

CONTROL PANEL INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

CONTROL PANEL WITH DISCONNECT SWITCH INTEGRAL OR PROVIDED WITH ASSOCIATED EQUIPMENT

JUNCTION OR PULL BOX

PANELBOARD (250V TO 600V)

PANELBOARD (LESS THAN 250V)

ELECTRICAL EQUIPMENT ENCLOSURE: SWITCHBOARD, MOTOR CONTROL CENTER, CONTROL PANEL OR OTHER EQUIPMENT AS INDICATED

PHOTOCELL

CEILING/PENDANT MOUNTED LUMINAIRE - HID, COMPACT FLUORESCENT OR INCANDESCENT

WALL MOUNTED LUMINAIRE - HID, COMPACT FLUORESCENT OR INCANDESCENT

CEILING/PENDANT MOUNTED FLUORESCENT FIXTURE

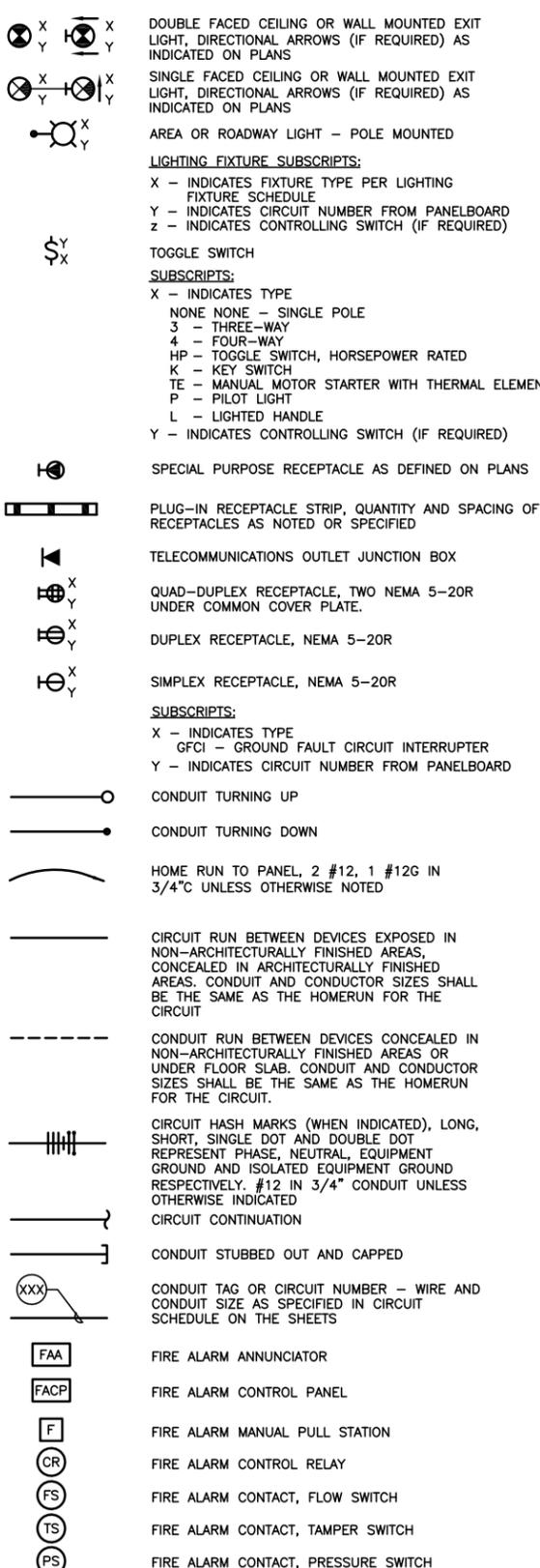
WALL MOUNTED FLUORESCENT FIXTURE

CEILING/PENDANT MOUNTED FLUORESCENT FIXTURE NORMAL/EMERGENCY

WALL MOUNTED FLUORESCENT FIXTURE NORMAL/EMERGENCY

EMERGENCY LIGHT FIXTURE, 2 ATTACHED HEADS AS SHOWN

EMERGENCY LIGHT, REMOTE MOUNTED HEAD



DOUBLE FACED CEILING OR WALL MOUNTED EXIT LIGHT, DIRECTIONAL ARROWS (IF REQUIRED) AS INDICATED ON PLANS

SINGLE FACED CEILING OR WALL MOUNTED EXIT LIGHT, DIRECTIONAL ARROWS (IF REQUIRED) AS INDICATED ON PLANS

AREA OR ROADWAY LIGHT - POLE MOUNTED

**LIGHTING FIXTURE SUBSCRIPTS:**  
 X - INDICATES FIXTURE TYPE PER LIGHTING FIXTURE SCHEDULE  
 Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD  
 z - INDICATES CONTROLLING SWITCH (IF REQUIRED)

TOGGLE SWITCH

**SUBSCRIPTS:**  
 X - INDICATES TYPE  
 NONE NONE - SINGLE POLE  
 3 - THREE-WAY  
 4 - FOUR-WAY  
 HP - TOGGLE SWITCH, HORSEPOWER RATED  
 K - KEY SWITCH  
 TE - MANUAL MOTOR STARTER WITH THERMAL ELEMENT  
 P - PILOT LIGHT  
 L - LIGHTED HANDLE  
 Y - INDICATES CONTROLLING SWITCH (IF REQUIRED)

SPECIAL PURPOSE RECEPTACLE AS DEFINED ON PLANS

PLUG-IN RECEPTACLE STRIP, QUANTITY AND SPACING OF RECEPTACLES AS NOTED OR SPECIFIED

TELECOMMUNICATIONS OUTLET JUNCTION BOX

QUAD-DUPLEX RECEPTACLE, TWO NEMA 5-20R UNDER COMMON COVER PLATE.

DUPLEX RECEPTACLE, NEMA 5-20R

SIMPLEX RECEPTACLE, NEMA 5-20R

**SUBSCRIPTS:**  
 X - INDICATES TYPE  
 GFCI - GROUND FAULT CIRCUIT INTERRUPTER  
 Y - INDICATES CIRCUIT NUMBER FROM PANELBOARD

CONDUIT TURNING UP

CONDUIT TURNING DOWN

HOME RUN TO PANEL, 2 #12, 1 #12G IN 3/4" UNLESS OTHERWISE NOTED

CIRCUIT RUN BETWEEN DEVICES EXPOSED IN NON-ARCHITECTURALLY FINISHED AREAS, CONCEALED IN ARCHITECTURALLY FINISHED AREAS. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT

CONDUIT RUN BETWEEN DEVICES CONCEALED IN NON-ARCHITECTURALLY FINISHED AREAS OR UNDER FLOOR SLAB. CONDUIT AND CONDUCTOR SIZES SHALL BE THE SAME AS THE HOMERUN FOR THE CIRCUIT.

CIRCUIT HASH MARKS (WHEN INDICATED), LONG, SHORT, SINGLE DOT AND DOUBLE DOT REPRESENT PHASE, NEUTRAL, EQUIPMENT GROUND AND ISOLATED EQUIPMENT GROUND RESPECTIVELY. #12 IN 3/4" CONDUIT UNLESS OTHERWISE INDICATED

CIRCUIT CONTINUATION

CONDUIT STUBBED OUT AND CAPPED

CONDUIT TAG OR CIRCUIT NUMBER - WIRE AND CONDUIT SIZE AS SPECIFIED IN CIRCUIT SCHEDULE ON THE SHEETS

FIRE ALARM ANNUNCIATOR

FIRE ALARM CONTROL PANEL

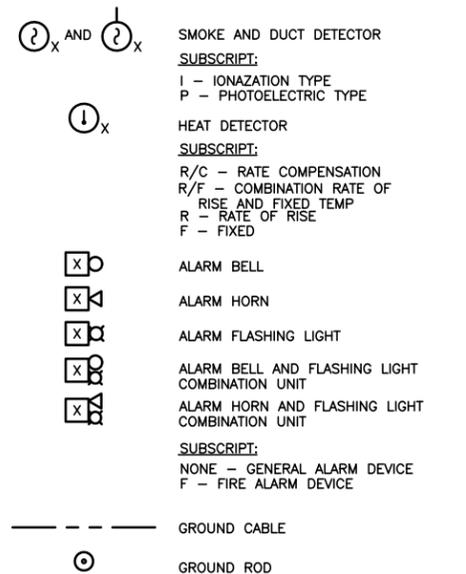
FIRE ALARM MANUAL PULL STATION

FIRE ALARM CONTROL RELAY

FIRE ALARM CONTACT, FLOW SWITCH

FIRE ALARM CONTACT, TAMPER SWITCH

FIRE ALARM CONTACT, PRESSURE SWITCH



SMOKE AND DUCT DETECTOR

**SUBSCRIPT:**  
 I - IONIZATION TYPE  
 P - PHOTOELECTRIC TYPE

HEAT DETECTOR

**SUBSCRIPT:**  
 R/C - RATE COMPENSATION  
 R/F - COMBINATION RATE OF RISE AND FIXED TEMP  
 R - RATE OF RISE  
 F - FIXED

ALARM BELL

ALARM HORN

ALARM FLASHING LIGHT

ALARM BELL AND FLASHING LIGHT COMBINATION UNIT

ALARM HORN AND FLASHING LIGHT COMBINATION UNIT

**SUBSCRIPT:**  
 NONE - GENERAL ALARM DEVICE  
 F - FIRE ALARM DEVICE

GROUND CABLE

GROUND ROD

**GENERAL NOTES:**

- THIS IS A STANDARD ELECTRICAL SYMBOLS SHEET. ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
- SEE P&ID LEGEND SHEET FOR PROJECT SPECIFIC EQUIPMENT SYMBOLS, EQUIPMENT ABBREVIATIONS AND PIPING SYSTEM ABBREVIATIONS.

1/18/08 14:13 MPRICHTT R17 P:\BIC\110159\16CD\GEN\GE.DWG

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: @ADD	TECH. REVIEW:	DATE: 02/2008	SUB SHEET NO.	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER ELECTRICAL LEGEND	DRAWING NO. 176 41,009	PMIS/PKG NO. 61948/110159	SHEET 4 of 69
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GE

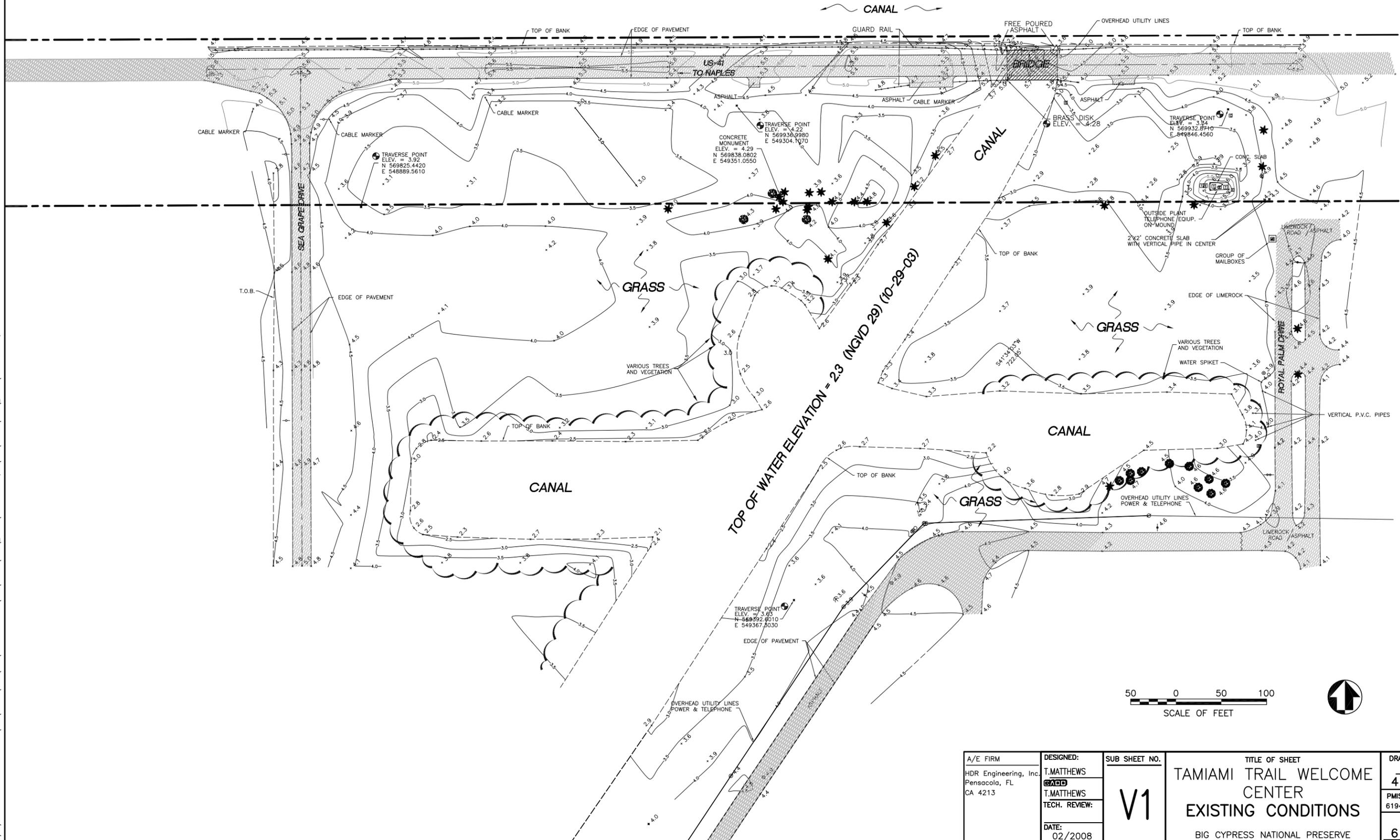
BIG CYPRESS NATIONAL PRESERVE

1/18/08 14:14 MPRITCHETT R17 P:\BIC\110159\16CD\GEN\GM.DWG

HVAC SYMBOLOGY		HVAC CONTROL SYMBOLOGY		PIPING SYMBOLOGY		MISCELLANEOUS SYMBOLOGY																																																																																																																																										
<p>24x18 SUPPLY AIR OR OUTSIDE AIR DUCT (SECTION CUT, FIRST DIMENSION DUCT WIDTH) EXHAUST AIR OR RETURN AIR DUCT (SECTION CUT) SUPPLY AIR OR OUTSIDE AIR DUCT (NO SECTION CUT) EXHAUST AIR OR RETURN AIR DUCT (NO SECTION CUT) TRANSITION - DOUBLE SIDED TRANSITION - ONE SIDED TRANSITION - RECTANGULAR TO ROUND DUCT STANDARD BRANCH - FOR SUPPLY AIR W/EXTRACTOR AND RETURN AIR W/O EXTRACTOR ELBOW - W/TURNING VANE SD SPLITTER DAMPER 18x24 RECTANGULAR DUCT OR OPENING SIZE - FIRST NUMBER INDICATES SIZE OF SIDE SHOWN 18" DIA ROUND DUCT SIZE R OR D RECTANGULAR DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW R OR D ROUND DUCT INCLINE - RISE OR DROP IN RESPECT TO THE AIR FLOW PRESSURE/TEMPERATURE TEST PLUG (PETE PLUG OR EQUAL) FD, VD, BDD, MOD FD = FIRE DAMPER VD = VOLUME DAMPER BDD = BACKDRAFT DAMPER MOD = MOTOR OPERATED DAMPER FLEXIBLE CONNECTION FLEXIBLE DUCT ACOUSTICAL LINING - DUCT DIMENSIONS FOR NET FREE AREA SIZE CFM SUPPLY AIR REGISTER OR GRILLE - W/DUCT-MOUNTED EXTRACTOR SIZE CFM EXHAUST AIR OR RETURN AIR REGISTER OR GRILLE SIZE CFM EXHAUST AIR OR RETURN AIR REGISTER OR GRILLE SIZE CFM SUPPLY AIR ASSEMBLY SQUARE DIFFUSER SIZE CFM SUPPLY AIR ASSEMBLY ROUND DIFFUSER WALL LOUVER ACCESS DOOR UC 3/4" UNDERCUT DOOR 3/4"</p>	<p>INTAKE OR RELIEF HOOD DOOR GRILLE AIR FLOW BACKDRAFT DAMPER EXHAUST ROOF VENTILATOR PROPELLER OR CENTRIFUGAL TYPE PROPELLER WALL FAN ROOM AIR CONDITIONING UNIT INTAKE/EXHAUST LOUVER SUPPLY, RETURN OR EXHAUST FAN AIR FILTER</p>	<p>TC TEMPERATURE CONTROLLER TT TEMPERATURE TRANSMITTER TS TEMPERATURE SWITCH T THERMOSTAT TI TEMPERATURE INDICATOR % PERCENTAGE TIMER RC RECEIVER CONTROLLER HOA HAND-OFF-AUTO MS MOTOR STARTER M DAMPER ACTUATOR PI PRESSURE INDICATOR FRZ FREEZE STAT FS FIRE STAT DPS DIFFERENTIAL PRESSURE SWITCH SD SMOKE DETECTOR - D - TIME DELAY M MINIMUM POSITION RELAY S SIGNAL AO ANALOG OUTPUT AI ANALOG INPUT DO DIGITAL OUTPUT DI DIGITAL INPUT C COMMON PORT S SIGNAL PORT NO NORMALLY OPEN NC NORMALLY CLOSED BALANCING VALVE RHC RESISTANCE HEATING CONTACTOR TA TEST-AUTO TOA TEST-OFF-AUTO - - - - - ELECTRIC SIGNAL PIPING BULB-TYPE THERMOSTAT</p>	<p>VALVES</p> <table border="1"> <thead> <tr> <th>SINGLE LINE</th> <th>DOUBLE LINE</th> <th>ISOLATION</th> </tr> </thead> <tbody> <tr><td></td><td></td><td>BALL VALVE</td></tr> <tr><td></td><td></td><td>BUTTERFLY VALVE</td></tr> <tr><td></td><td></td><td>DIAPHRAGM VALVE</td></tr> <tr><td></td><td></td><td>GATE VALVE</td></tr> <tr><td></td><td></td><td>GLOBE VALVE</td></tr> <tr><td></td><td></td><td>KNIFE GATE VALVE</td></tr> <tr><td></td><td></td><td>NEEDLE VALVE</td></tr> <tr><td></td><td></td><td>PINCH VALVE</td></tr> <tr><td></td><td></td><td>PLUG VALVE</td></tr> <tr><td></td><td></td><td>THREE-WAY BALL VALVE</td></tr> <tr><td></td><td></td><td>THREE-WAY PLUG VALVE</td></tr> </tbody> </table> <p>CONTROL</p> <table border="1"> <tbody> <tr><td></td><td></td><td>BALL CHECK VALVE</td></tr> <tr><td></td><td></td><td>CHECK VALVE</td></tr> <tr><td></td><td></td><td>DOUBLE-DISK CHECK 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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GM	SUB SHEET NO.	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER MECHANICAL LEGEND	DRAWING NO. 176 41,009
	TECH. REVIEW:	GM	BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET 5 of 69

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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS	SUB SHEET NO. <b>V1</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER EXISTING CONDITIONS</b>	DRAWING NO. <b>176 41,009</b>
	TECH. REVIEW: T.MATTHEWS			PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET <b>6 of 69</b>

NOTE:  
SEE SHEET C11 FOR TURN LANE LAYOUT INFORMATION

S.R. 90 / US NO. 41  
TAMIAMI TRAIL EAST

**GENERAL NOTES**  
FOR BIDDING PURPOSES, WORK IS ORGANIZED INTO BASE SCHEDULE WORK AND OPTIONS.

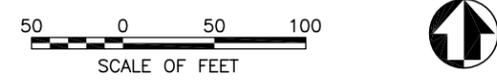
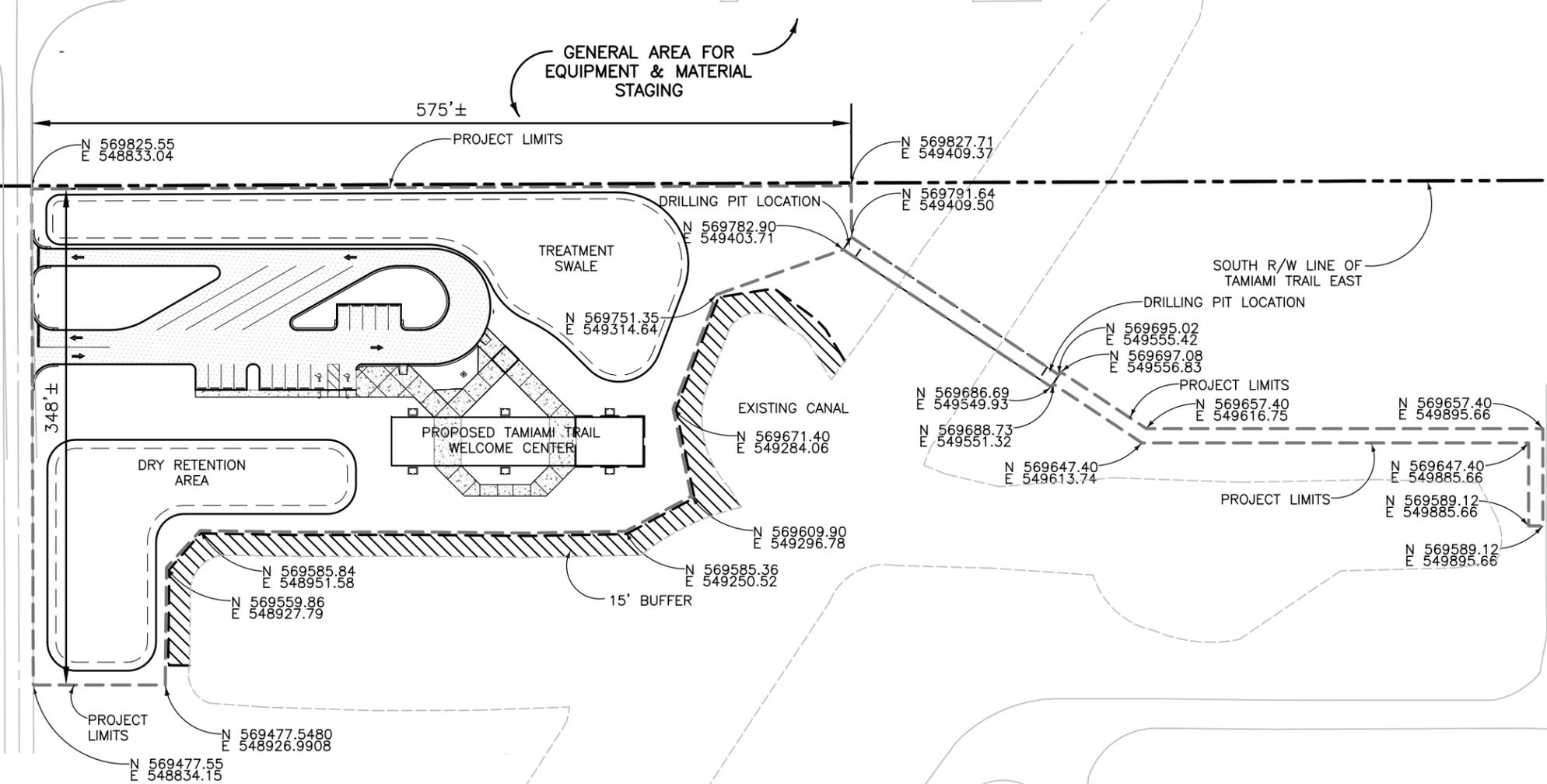
**SCHEDULE A**

- 1.) COMFORT STATION AND VISITOR CONTACT AREA.
- 2.) PARKING AREA AND WALKWAYS (EXCLUDING ASPHALT PAVING AND STRIPING).
- 3.) SEEDING AND MULCHING OF DISTURBED AREAS.
- 4.) SITE GRADING AND DETENTION POND.
- 5.) TURN LANE INCLUDING STRIPING AND SIGNAGE.
- 6.) SITE UTILITIES INCLUDING COMMUNICATIONS AND FORCEMAIN DIRECTIONAL BORES.

**OPTIONS**

- 7.) OPTION 1 - PARKING AREA PAVING AND STRIPING
- 8.) OPTION 2 - MULTIPURPOSE BUILDING
- 9.) OPTION 3 - OUTSIDE PAVILLION
- 10.) OPTION 4 - LANDSCAPING

\*\*FOR LOCATION OF OPTIONS 1, 2 AND 3 WORK, REFER TO SHEET C3.



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS	SUB SHEET NO. <b>C1</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER OVERALL SITE LAYOUT</b>	DRAWING NO. <b>176</b> 41,009
	TECH. REVIEW: T.MATTHEWS			PMIS/PKG NO. 61948/110159
	DATE: 02/2008		SHEET BIG CYPRESS NATIONAL PRESERVE	7 of 69

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NOTE:  
SEE SHEET C11 FOR TURN LANE IMPROVEMENT  
PROJECT LIMITS

S.R. 90 / US NO. 41  
TAMIAMI TRAIL EAST

SOUTH R/W TAMIAMI  
TRAIL

INSTALL SILT  
FENCE

PROJECT LIMITS

INSTALL SILT  
FENCE

END DOUBLE  
SILT FENCE

INSTALL DOUBLE SILT  
FENCE

PROJECT LIMITS

INSTALL SILT  
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FENCE

PROJECT LIMITS

INSTALL DOUBLE SILT  
FENCE

PROJECT LIMITS

BEGIN DOUBLE SILT  
FENCE



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS	SUB SHEET NO. <b>C2</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER PROJECT LIMITS/EROSION CONTROL</b>	DRAWING NO. <b>176 41,009</b>
	TECH. REVIEW: T.MATTHEWS			PMIS/PKG NO. 61948/110159
	DATE: 02/2008		BIG CYPRESS NATIONAL PRESERVE	SHEET <b>8 of 69</b>

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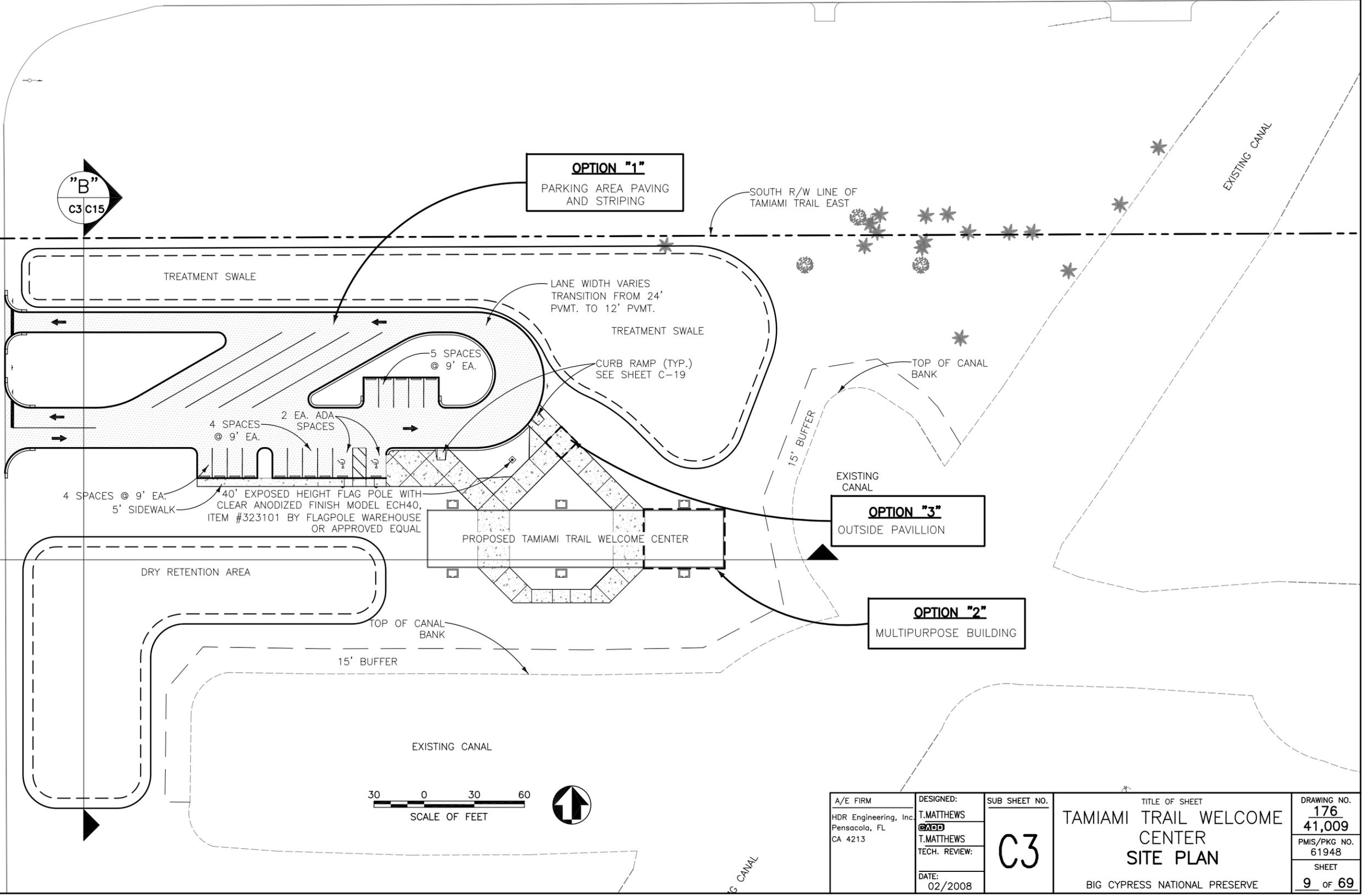
S.R. 90 / US NO. 41  
TAMIAMI TRAIL EAST

NOTE:  
WHEN CONSTRUCTION IS COMPLETE,  
SEA GRAPE DRIVE SHOULD BE  
RETURNED TO EXISTING CONDITION  
OUTSIDE MILLING LIMITS. SEE SHEET  
C11 FOR MILLING LIMITS

"A"  
C3/C15

"B"  
C3/C15

SEA GRAPE DRIVE



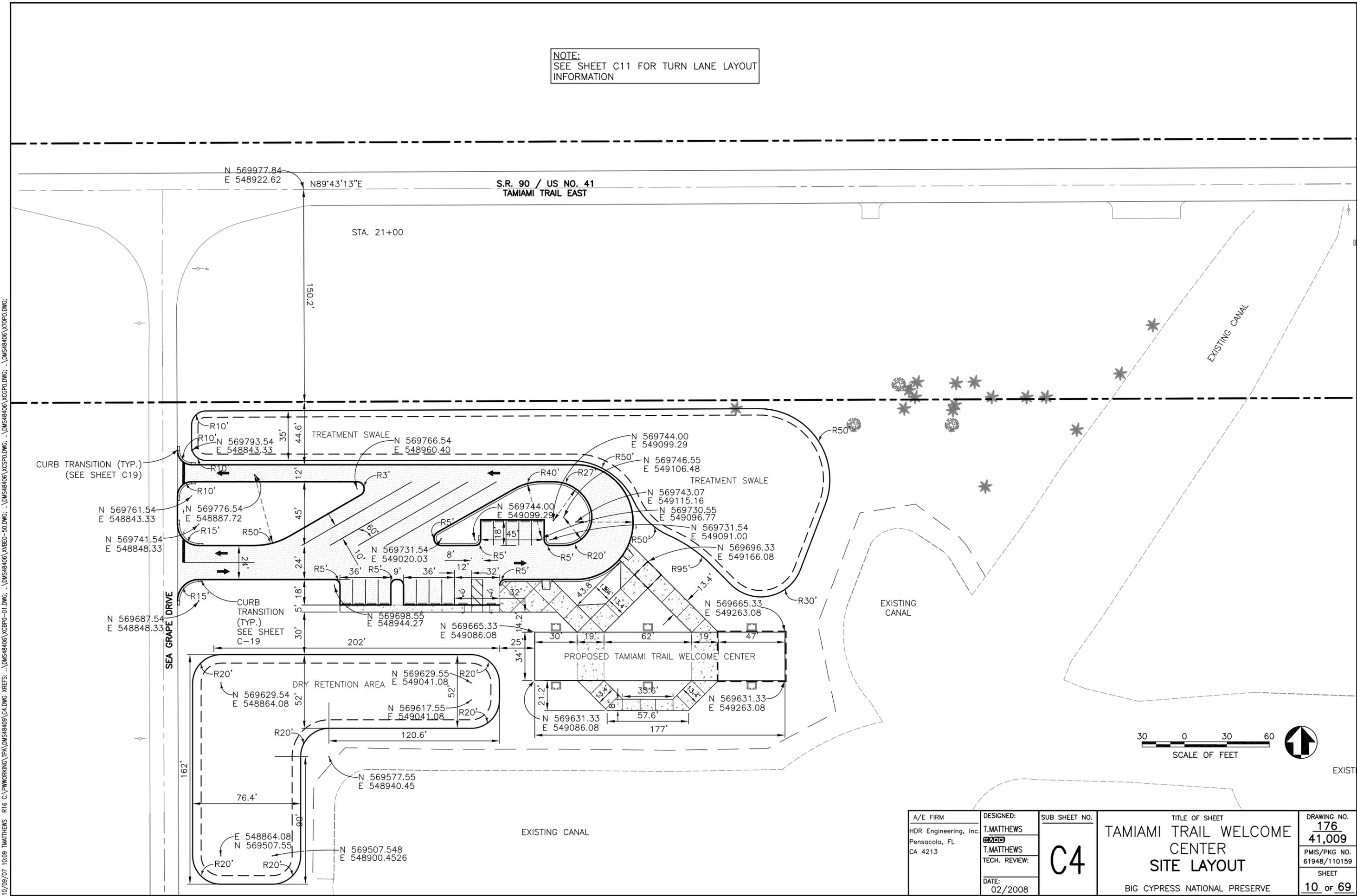
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SCALE OF FEET



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS	SUB SHEET NO. <b>C3</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER SITE PLAN</b>	DRAWING NO. <b>176</b> <b>41,009</b>
	TECH. REVIEW: T.MATTHEWS			PMIS/PKG NO. 61948
DATE: 02/2008			SHEET <b>9</b> OF <b>69</b>	

BIG CYPRESS NATIONAL PRESERVE

NOTE:  
SEE SHEET C11 FOR TURN LANE LAYOUT  
INFORMATION



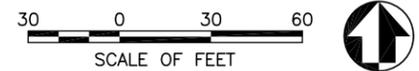
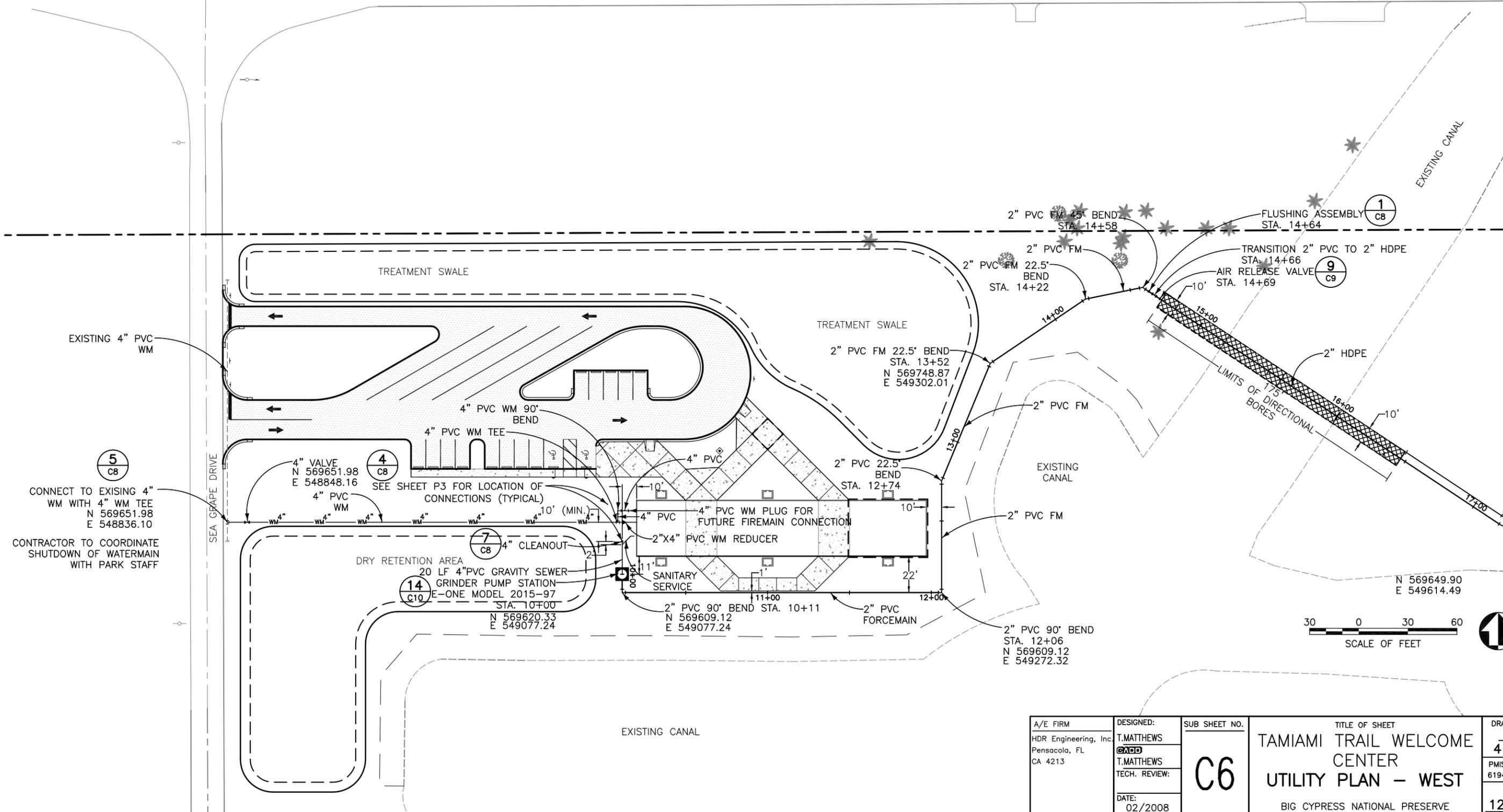
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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS	SUB SHEET NO. <b>C4</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER SITE LAYOUT</b>	DRAWING NO. <b>176</b> <b>41,009</b>
	TECH. REVIEW: T.MATTHEWS			PMIS/PKG NO. 61948/110159
DATE: 02/2008			SHEET <b>10</b> of <b>69</b>	



NOTE:  
SEE SHEET C11 FOR TURN LANE IMPROVEMENT  
PROJECT LIMITS

S.R. 90 / US NO. 41  
TAMIAMI TRAIL EAST

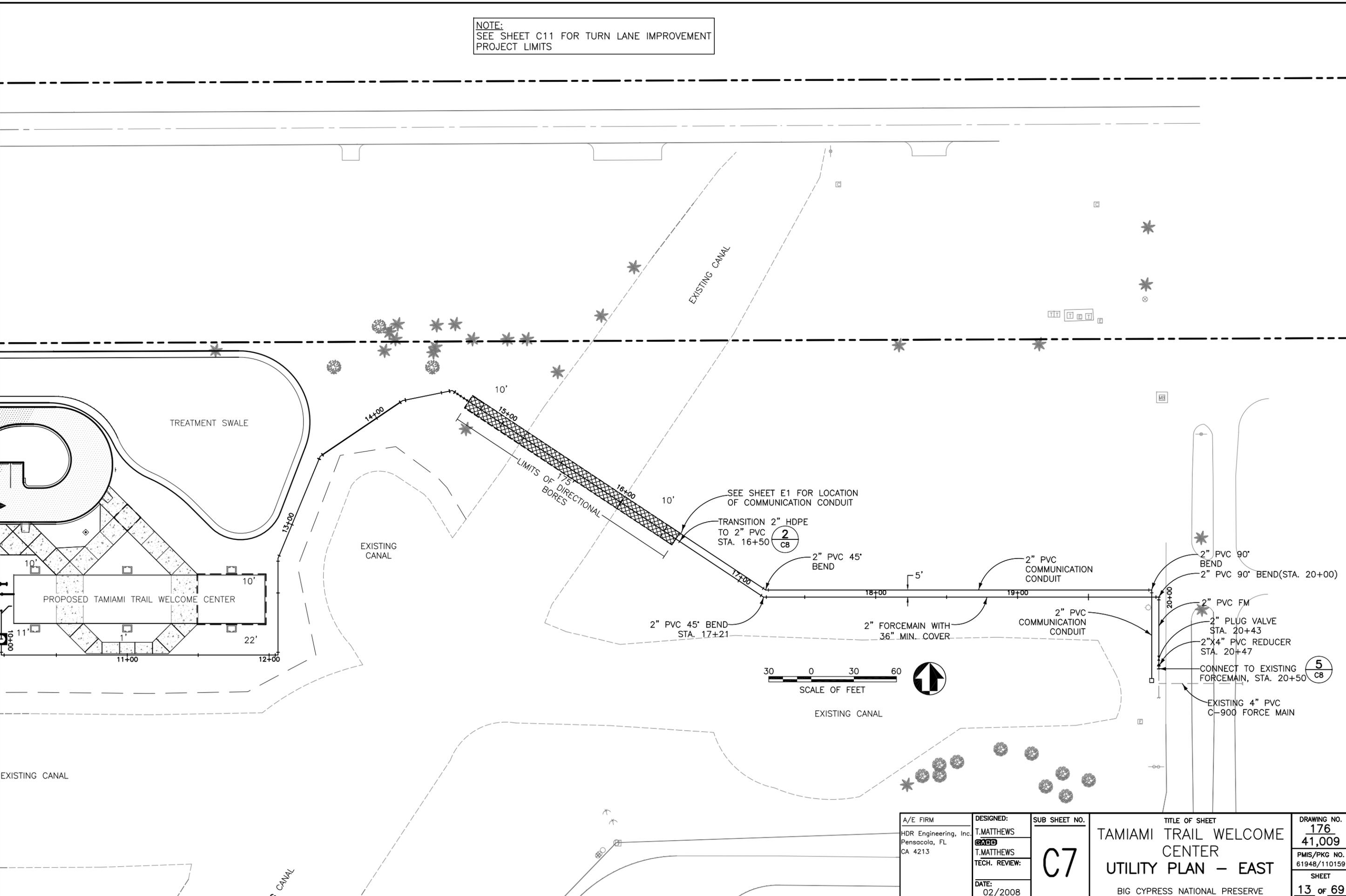


A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS	SUB SHEET NO. <b>C6</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER UTILITY PLAN - WEST</b>	DRAWING NO. <b>176 41,009</b>
	TECH. REVIEW: T.MATTHEWS			PMIS/PKG NO. 61948/110159
DATE: 02/2008			BIG CYPRESS NATIONAL PRESERVE	SHEET <b>12 of 69</b>

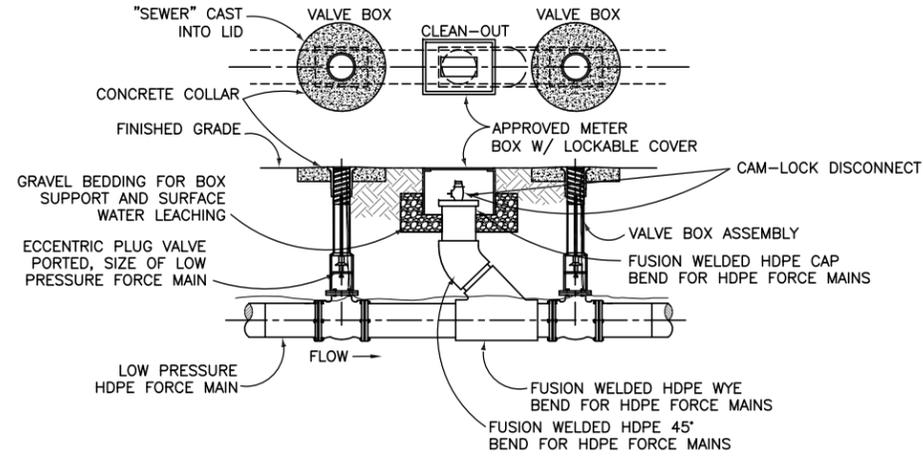
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NOTE:  
SEE SHEET C11 FOR TURN LANE IMPROVEMENT  
PROJECT LIMITS

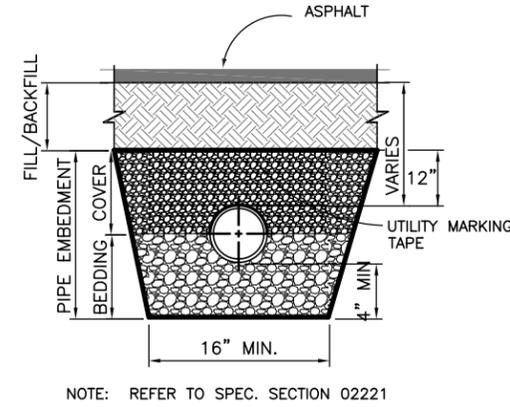
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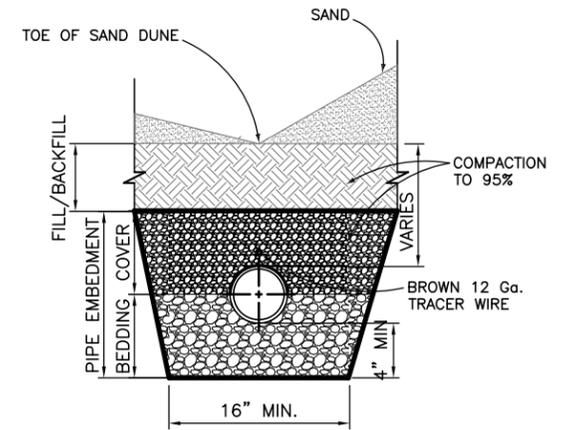
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS	SUB SHEET NO.  <b>C7</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER          UTILITY PLAN - EAST</b>	DRAWING NO. <b>176</b> <b>41,009</b>
	TECH. REVIEW: T.MATTHEWS			PMIS/PKG NO. 61948/110159
	DATE: 02/2008	SHEET <b>13 of 69</b>		
	BIG CYPRESS NATIONAL PRESERVE			



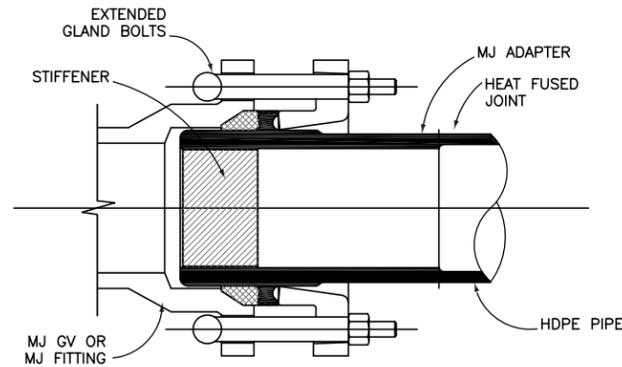
**1** FLUSHING ASSEMBLY DETAIL  
C7/C8 NO SCALE



**3** CLASS C TRENCH BACKFILL (MODIFIED)  
C7/C8 NO SCALE



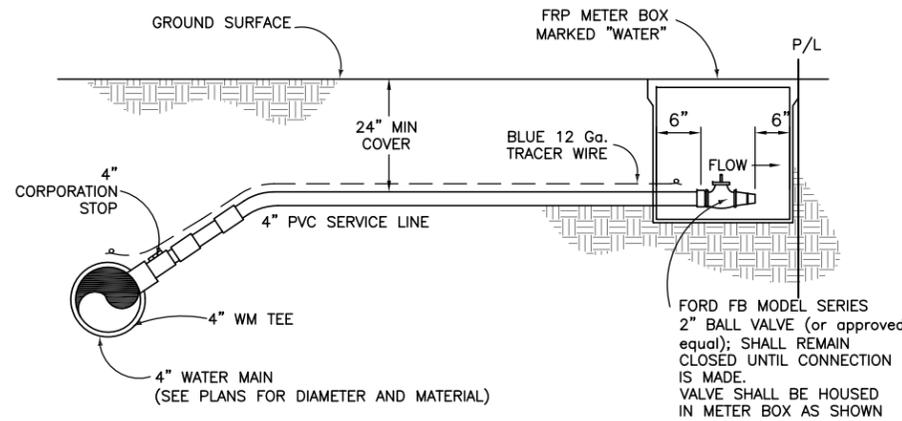
**6** CLASS C TRENCH BACKFILL  
C7/C8 NO SCALE



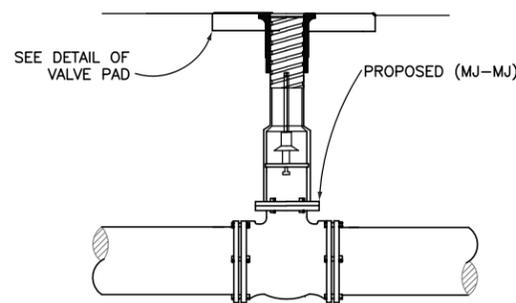
NOTE: 1. PAYMENT OF MJ ADAPTER IS TO BE INCLUDED IN THE UNIT COST OF THE HDPE PIPE.  
2. DRISCOPLEX MJ ADAPTER OR EQUIVALENT

- NOTES:
- SEWER SERVICES SHALL BE LAID SUCH THAT THE LINE RUNS CONTINUOUSLY FROM THE MAIN WITHOUT DIPS.
  - SERVICE LINE CONNECTIONS ACROSS ROADWAY SHALL BE MOLED UNDER ROADWAY.
  - CONTRACTOR SHALL INCLUDE ALL LATERALS IN THE PRESSURE FORCE MAIN.
  - SERVICE LINE CONNECTIONS SHALL HAVE BROWN 12 Ga. TRACER WIRE ATTACHED.
  - CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES ENCOUNTERED DURING SERVICE LINE INSTALLATION.

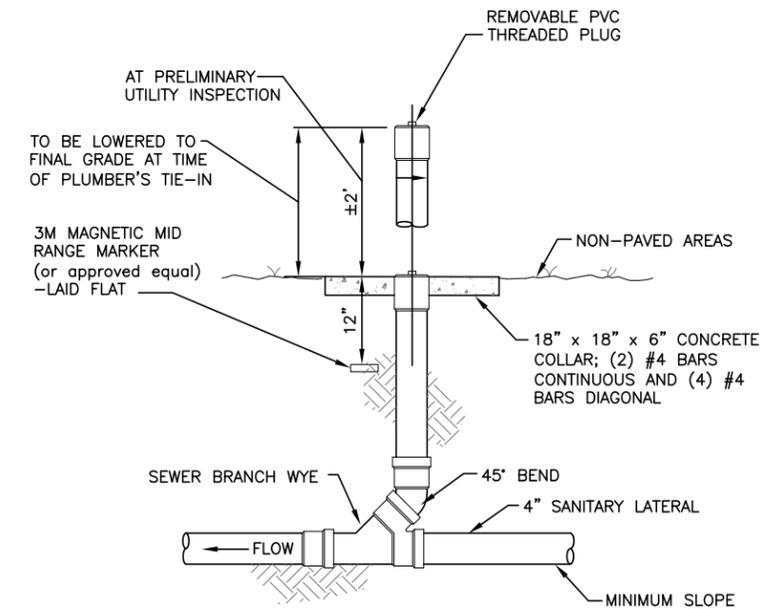
**2** MJ ADAPTER DETAIL  
C7/C8 NO SCALE



**4** WATER SERVICE CONNECTION  
C6/C8 NO SCALE

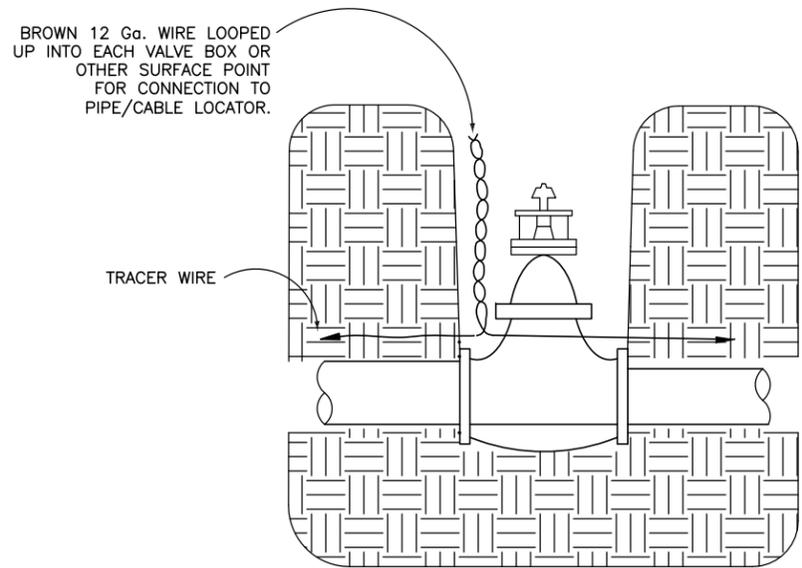


**5** PLUG VALVE (MJ-MJ) CONNECTION DETAIL  
C7/C8 NO SCALE

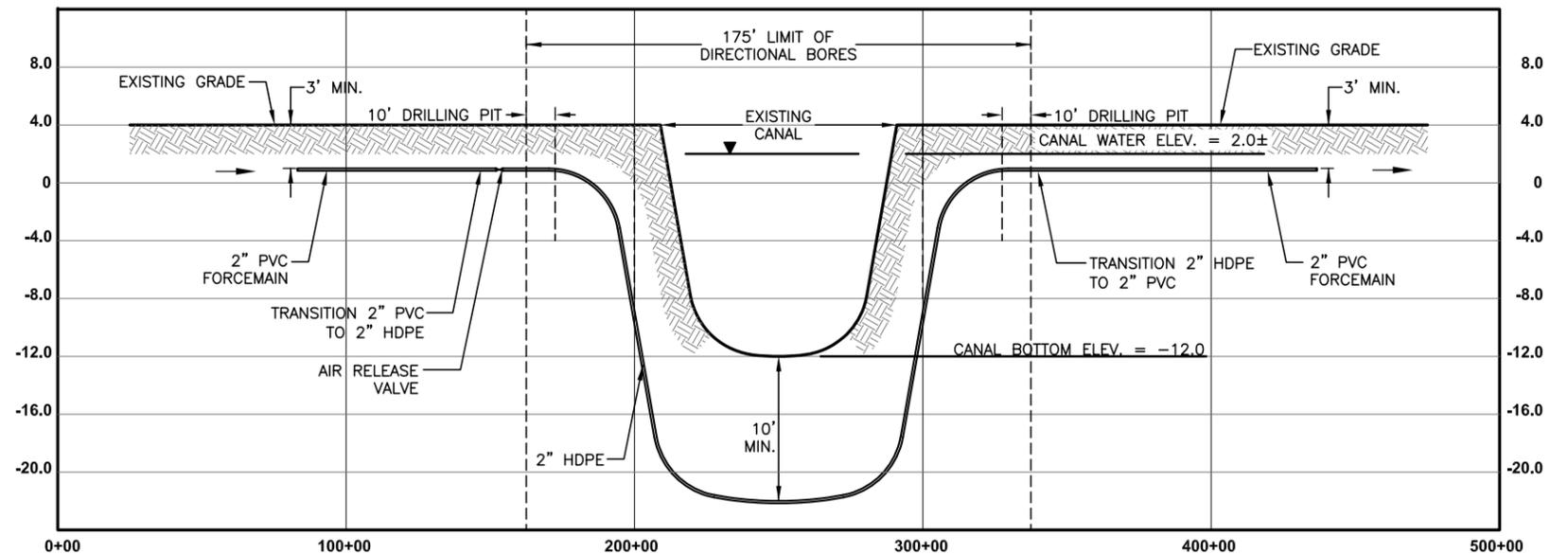


**7** CLEANOUT DETAIL  
C7/C8 NO SCALE

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: CRIGLER BEDWELL TECH. REVIEW:	SUB SHEET NO. <b>C8</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER WATER &amp; SEWER DETAILS</b>	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>14</b> OF <b>69</b>
DATE: 02/2008			BIG CYPRESS NATIONAL PRESERVE	



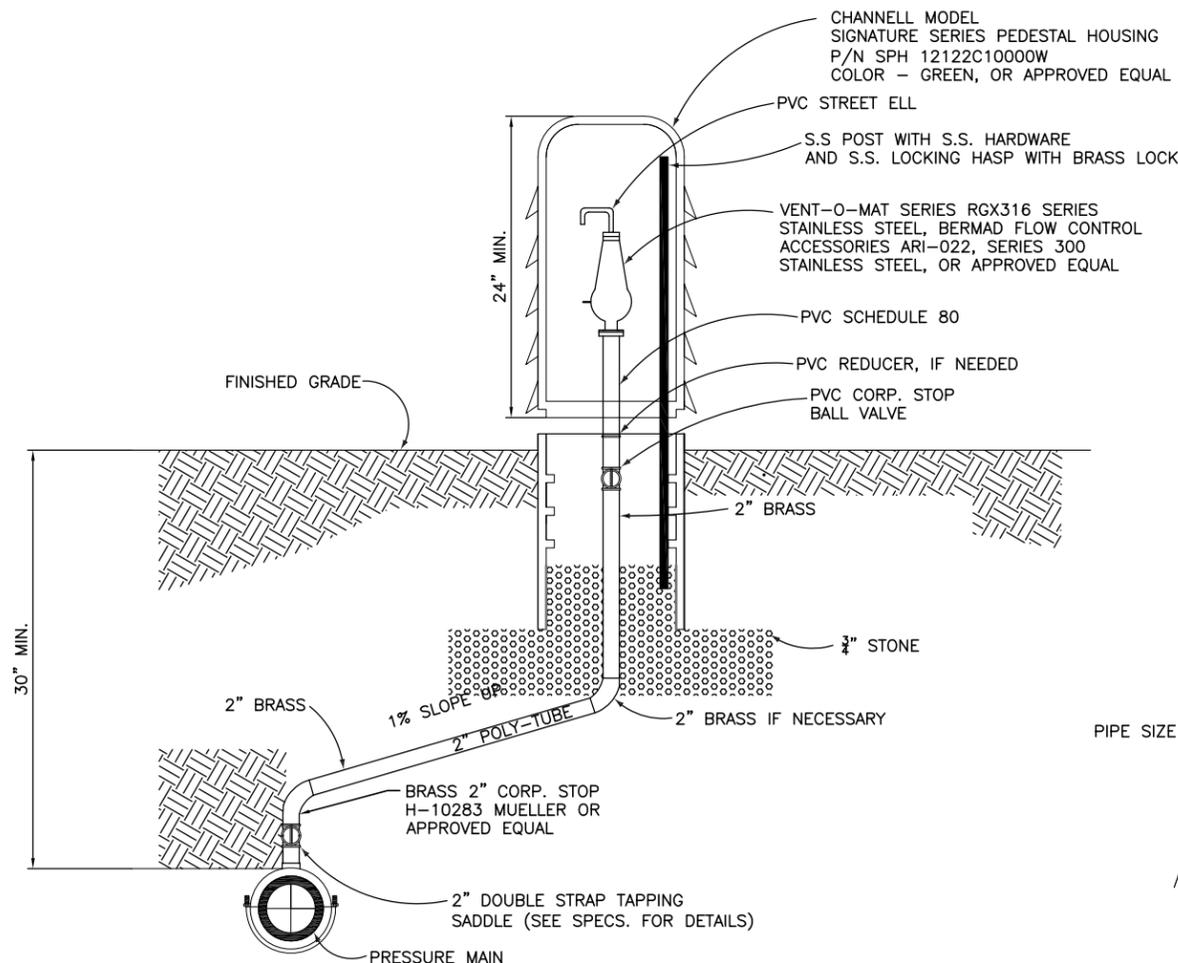
**8** TRACER WIRE DETAIL  
C7|C9 NO SCALE



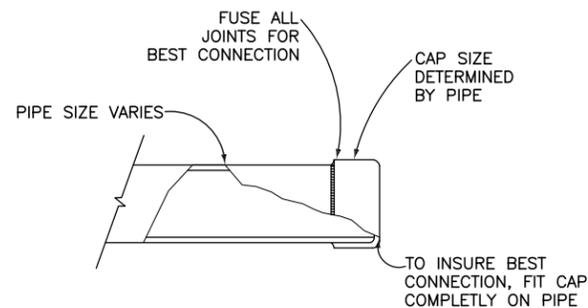
30 0 30 60  
SCALE OF FEET (HORIZONTAL)

**11** 2" FORCEMAIN DIRECTIONAL BORE CANAL CROSSING  
C7|C9

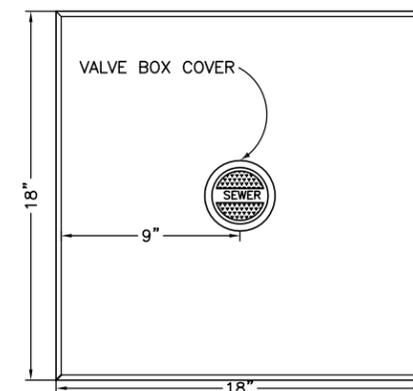
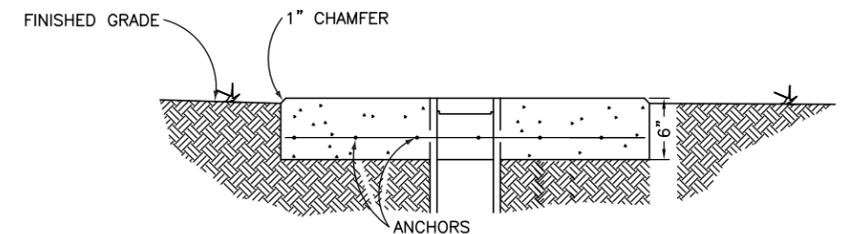
6 0 6 12  
SCALE OF FEET (VERTICAL)



**9** AIR RELEASE VALVE  
C7|C9 NO SCALE



**12** IPS STANDARD END CAP DETAIL  
C7|C9 NO SCALE



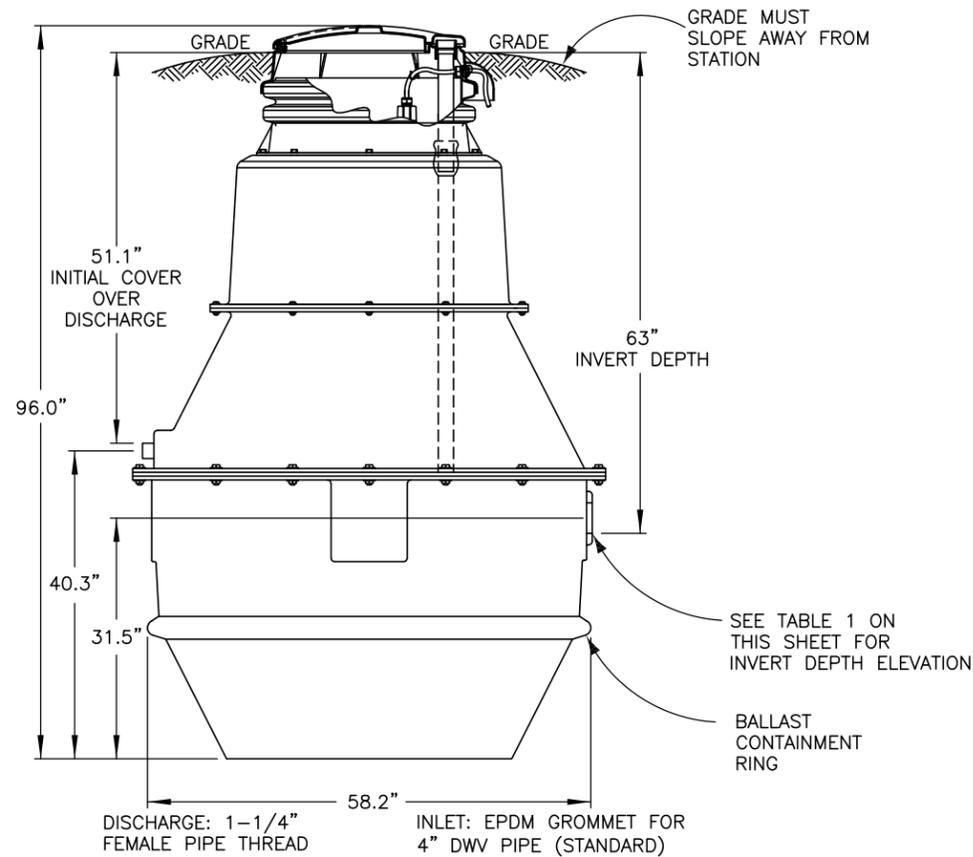
**10** CONCRETE VALVE PAD  
C6|C9 NO SCALE

NOTES:

1. CONCRETE TO BE TYPE I GENERAL PORTLAND CEMENT WITH 3/4" TOP SIZE AGGREGATE AND SHALL DEVELOP A 28-DAY STRENGTH OF 3000 P.S.I.
2. REINFORCING STEEL SHALL BE NO. 6X6 - W10XW10
3. CONCRETE VALVE PAD SHALL BE POURED IN PLACE AND SHALL BE SET 1/4" ABOVE FINISHED GRADE

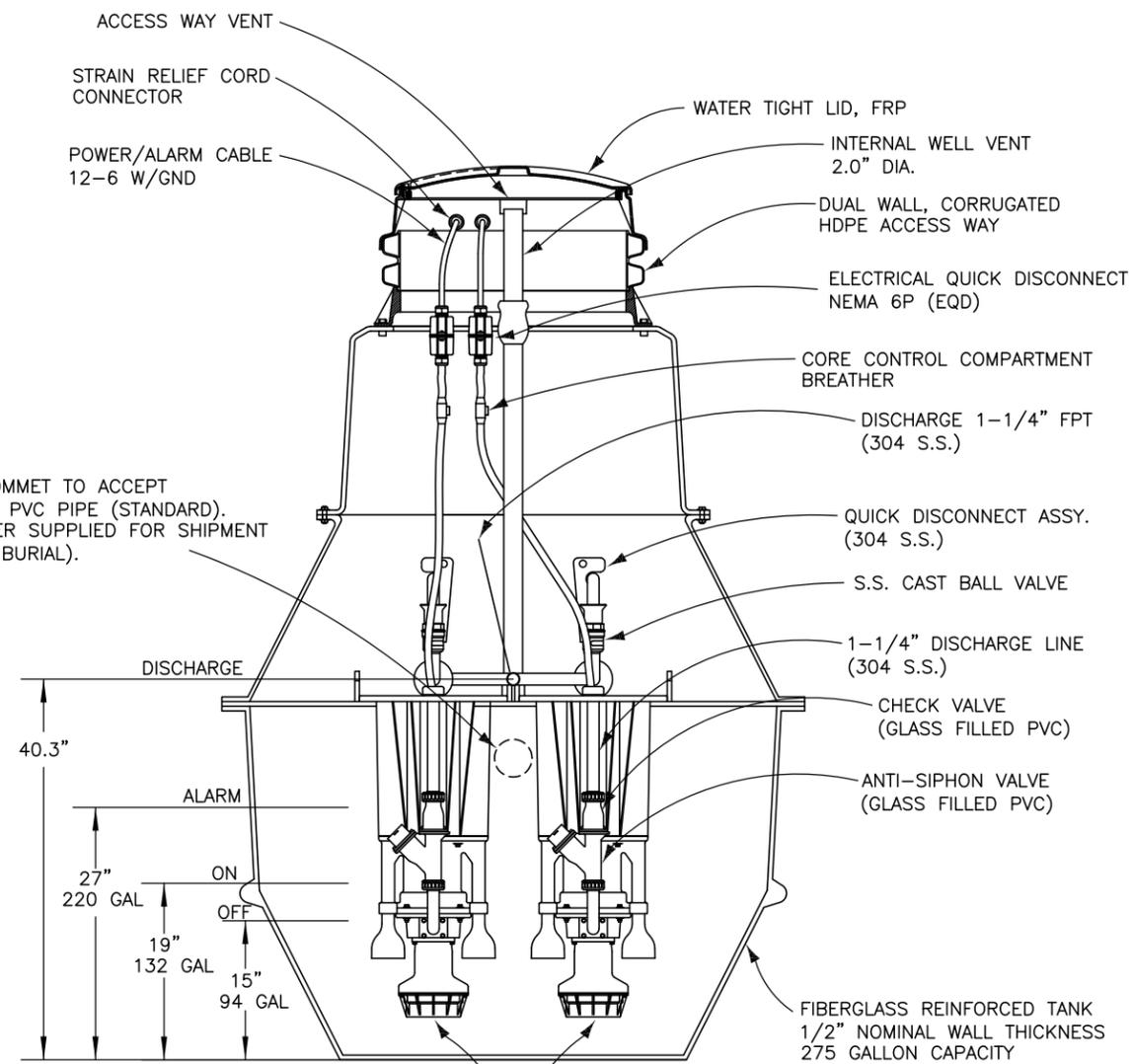
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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: CRIGLER BEDWELL TECH. REVIEW:	SUB SHEET NO. <b>C9</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER FORCEMAIN/ARV DETAILS	DRAWING NO. <b>176</b> 41,009
DATE: 02/2008			BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159 SHEET <b>15</b> OF <b>69</b>



**14 SECTION**  
C6 NO SCALE

INLET, GROMMET TO ACCEPT 4.50" O.D. PVC PIPE (STANDARD). DUST COVER SUPPLIED FOR SHIPMENT (NOT FOR BURIAL).



SEMI-POSITIVE DISPLACEMENT TYPE PUMP. EACH DIRECTLY DRIVEN BY A 1 HP MOTOR CAPABLE OF DELIVERING 9 GPM AT 138' T.D.H.

NOTE: E-ONE MODEL 014-129, OR APPROVED EQUAL

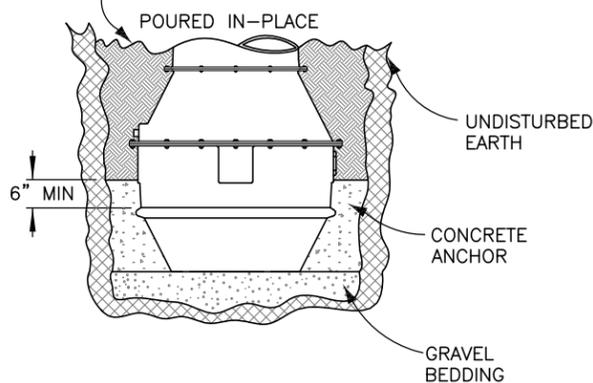
**14 SECTION**  
C6 NO SCALE

TABLE 1		
STATION #	INVERT EL.	FM OUTLET EL.
1	1.75	2.75

**NOTE:**

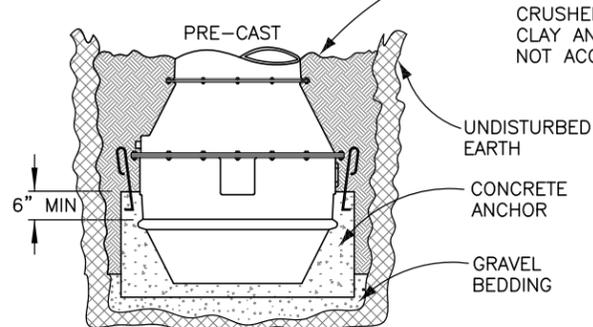
- FORCEMAIN WILL TRANSITION TO 36" MINIMUM COVER AFTER OUTLET FROM LIFT STATION.

FILL TO GRADE WITH CLEAN, COMPACTABLE BACKFILL, SUCH AS PEA GRAVEL OR CRUSHED STONE, 1/8" - 3/4" IN SIZE. CLAY AND SILTS ARE NOT ACCEPTABLE BACKFILL.



**14 SECTION**  
C6 NO SCALE

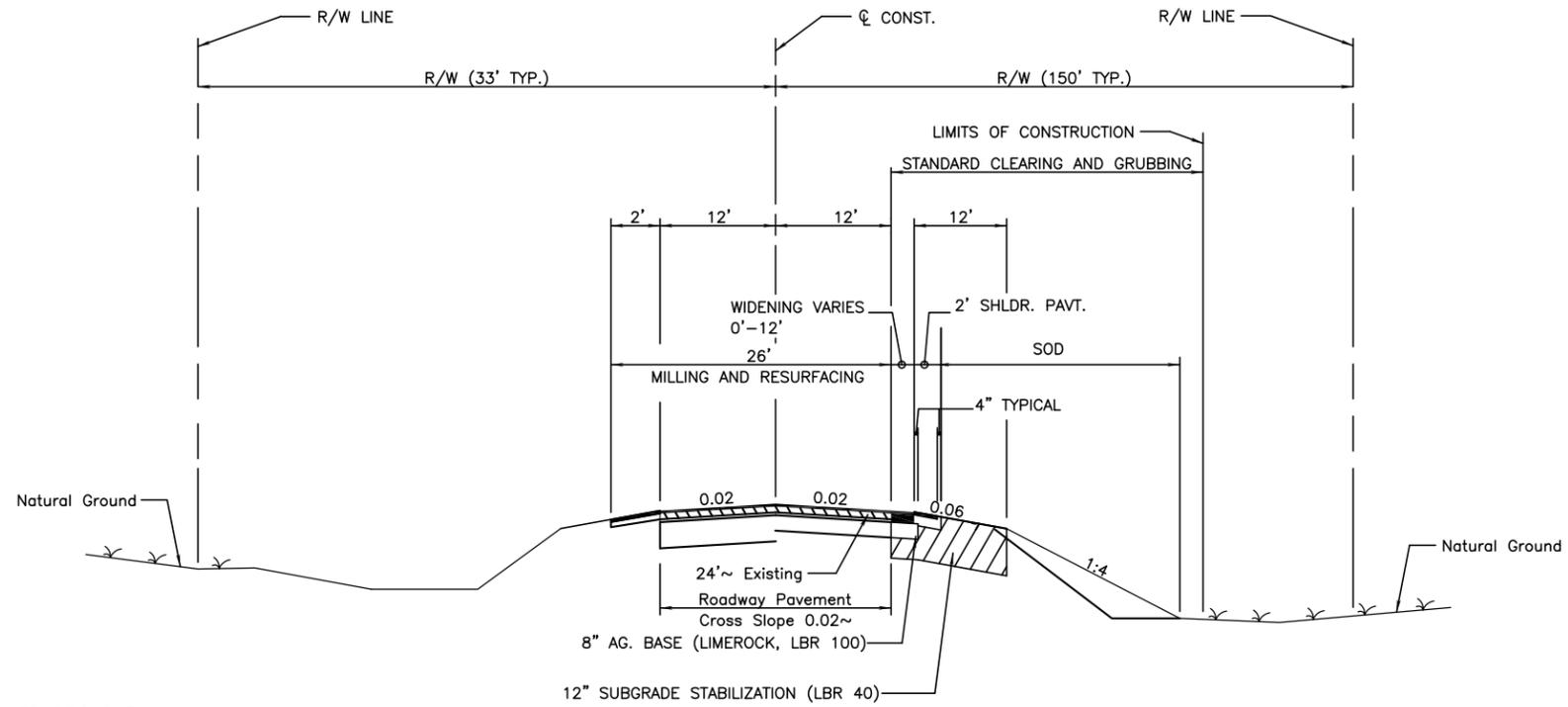
FILL TO GRADE WITH CLEAN, COMPACTABLE BACKFILL, SUCH AS PEA GRAVEL OR CRUSHED STONE, 1/8" - 3/4" IN SIZE. CLAY AND SILTS ARE NOT ACCEPTABLE BACKFILL.



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: CRIGLER BEDWELL TECH. REVIEW:	SUB SHEET NO. <b>C10</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER PUMP STATION DETAILS BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>16</b> OF <b>69</b>
DATE: 02/2008				



6/19/08 08:34 JESSE VAN HORNE R17 P:\BICY\110159\16CD\DWG\C12.DWG-REV6-08\HLDWG XREFS: P:\BICY\110159\16CD\BASES\CSO-10-01.DWG;



TRAFFIC DATA

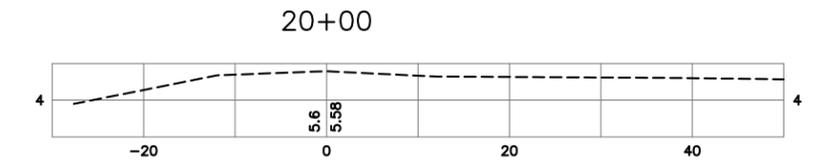
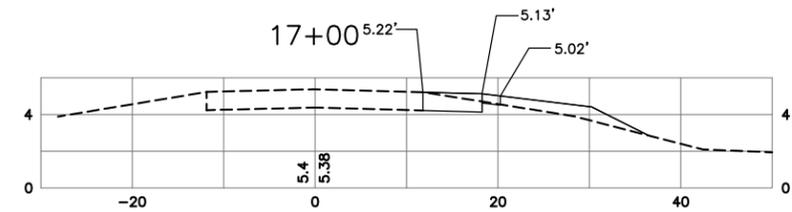
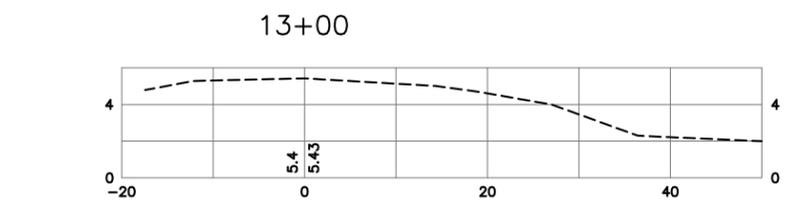
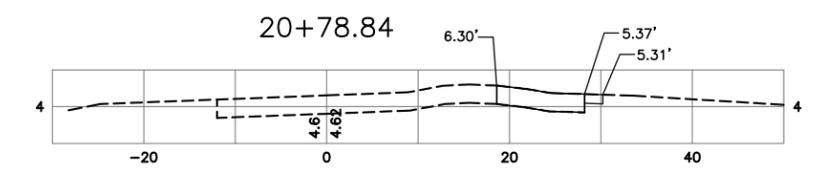
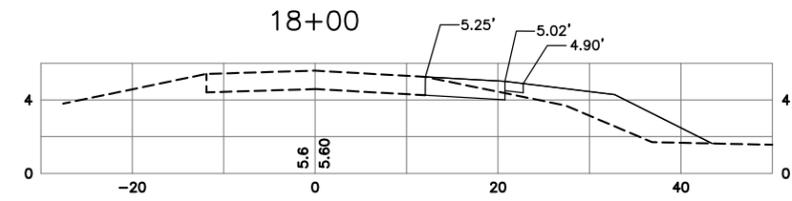
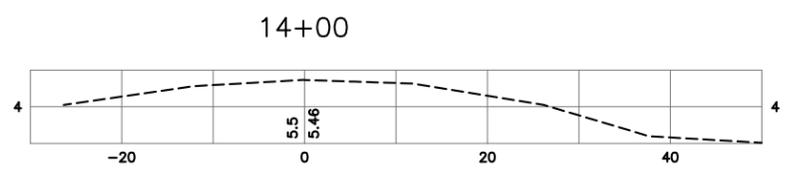
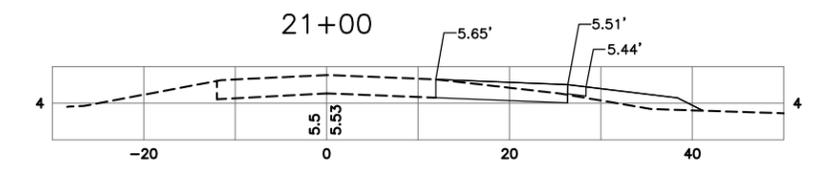
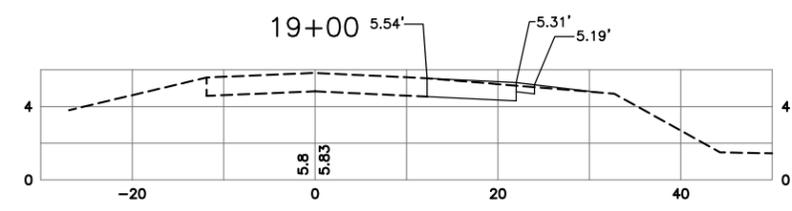
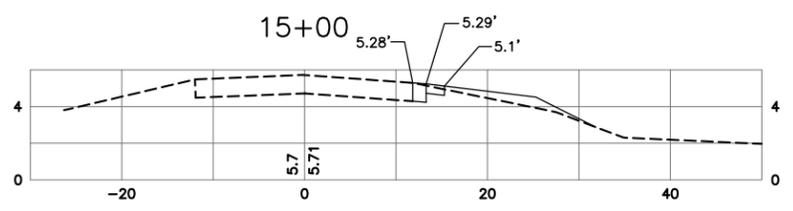
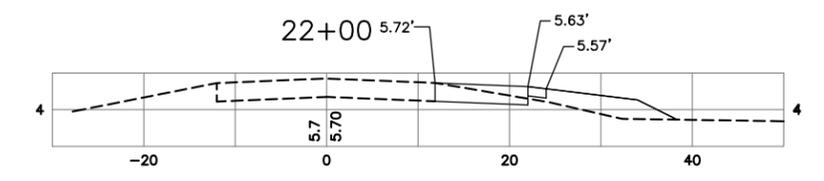
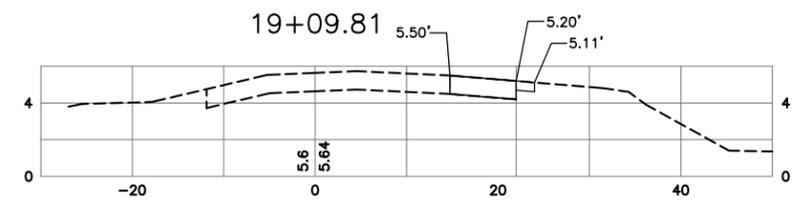
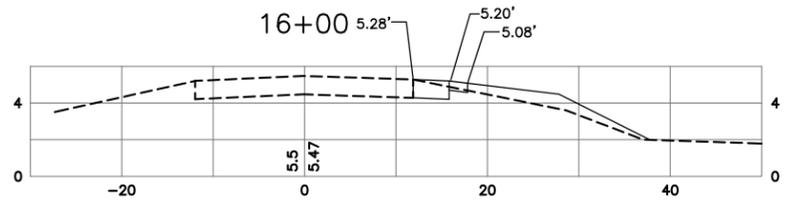
CURRENT YEAR	= 2006 AADT = 2,800
ESTIMATED OPENING YEAR	= 2009 AADT = 2,900
ESTIMATED DESIGN YEAR	= 2029 AADT = 3,500
K = 15% D = 55% T = 18% (24 HOUR)	
DESIGN HOUR T = 18%	
DESIGN SPEED = 65 MPH	
POSTED SPEED = 60 MPH	

- MILLING**  
MILL EXISTING ASPHALT PAVEMENT (1.0" AVG. DEPTH)
- RESURFACING**  
1.5" SUPERPAVE PAVEMENT SURFACE COURSE, 1/2" NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL, TYPE V PAVEMENT SMOOTHNESS
- WIDENING**  
8" AGGREGATE BASE (LIMEROCK, LBR 100)  
3" SUPERPAVE PAVEMENT BINDER COURSE, 3/4" NOMINAL MAXIMUM SIZE, AGGREGATE, 0.3 TO <3 MILLION ESAL,  
1.5" SUPERPAVE PAVEMENT SURFACE COURSE, 1/2" NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL, TYPE V PAVEMENT SMOOTHNESS
- SHOULDER**  
4" AGGREGATE BASE (LIMEROCK, LBR 100)  
1.5" SUPERPAVE PAVEMENT SURFACE COURSE, 1/2" NOMINAL MAXIMUM SIZE AGGREGATE, 0.3 TO <3 MILLION ESAL.

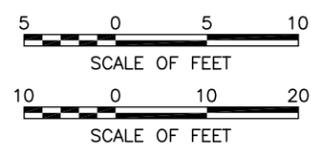
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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: MBC GAD MBC TECH. REVIEW:	SUB SHEET NO. <b>C12</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER TYPICAL SECTION U.S. 41 BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>18</b> OF <b>69</b>
DATE: 02/2008				

1/11/08 11:22 MPRICHTT R17 P:\BIC\110159\16CD\CIVIL\C13.DWG



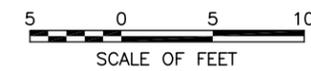
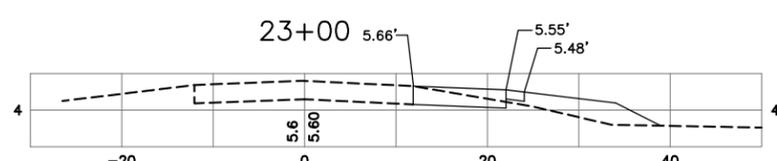
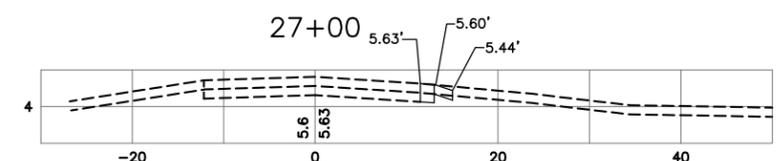
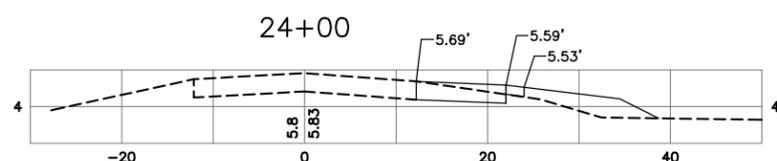
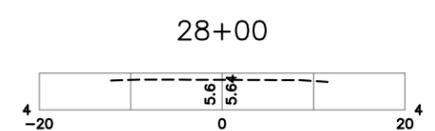
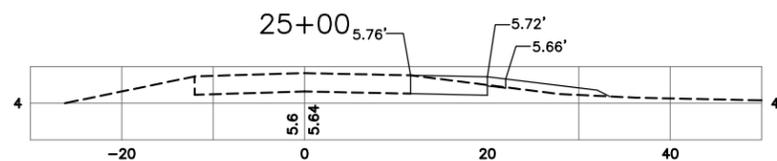
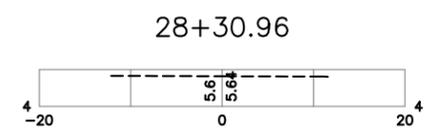
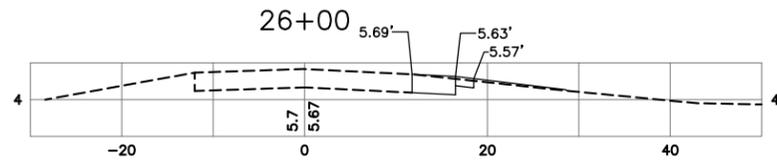
GOVERNING SPECIFICATIONS: US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, FP-03 (US CUSTOMARY UNITS)



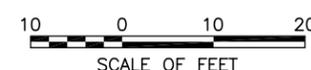
VERTICAL SCALE  
HORIZONTAL SCALE

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: TECH. REVIEW: DATE: 02/2008	SUB SHEET NO. <b>C13</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER CROSS SECTIONS U.S. 41</b>	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>19</b> OF <b>69</b>
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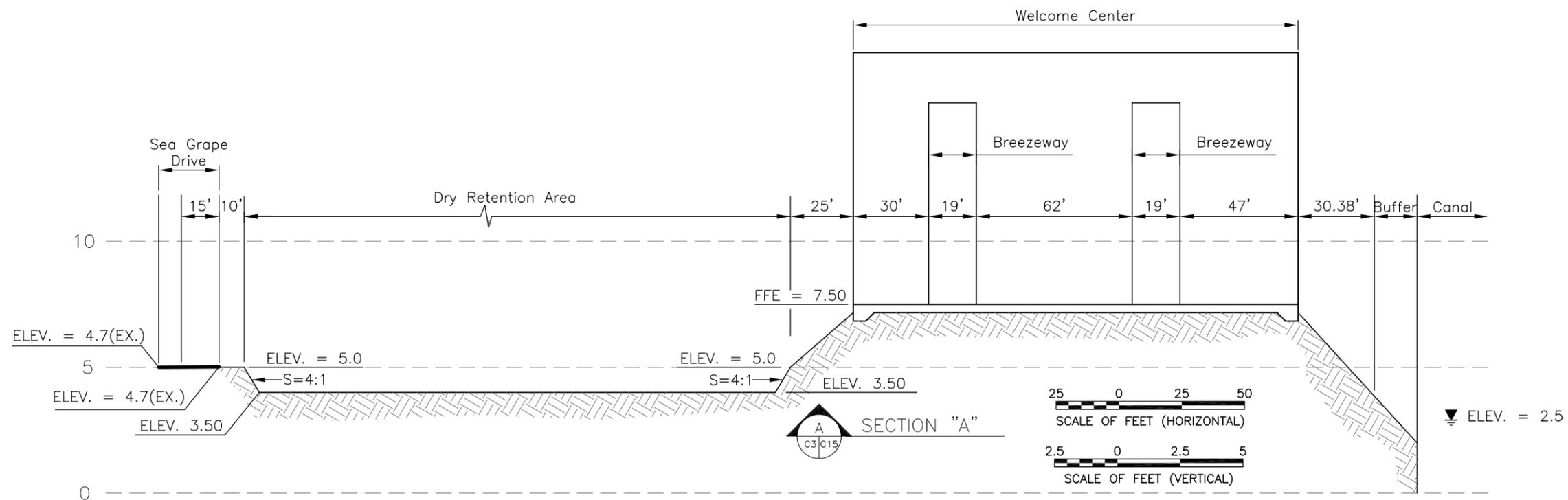
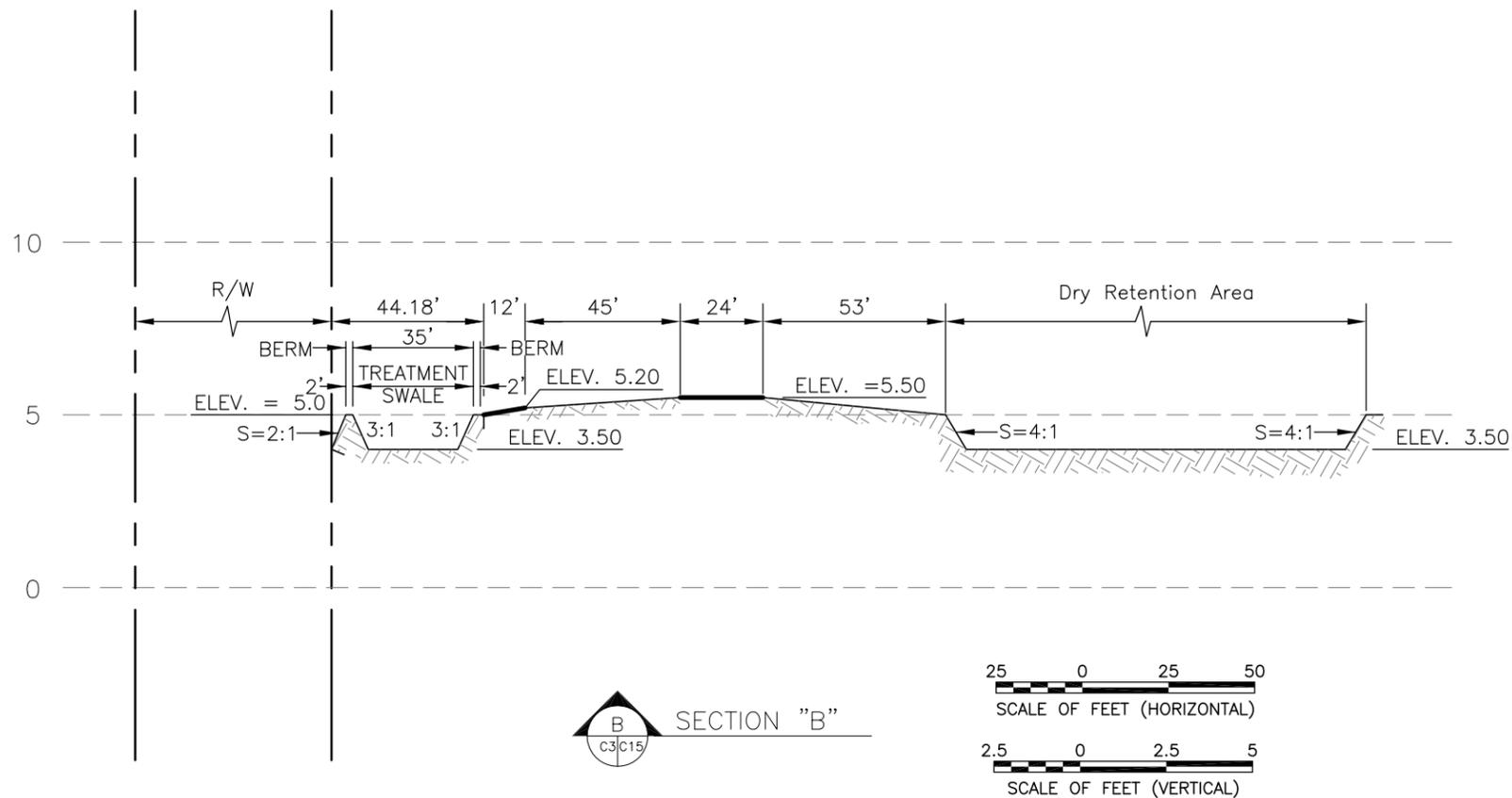
VERTICAL SCALE



HORIZONTAL SCALE

GOVERNING SPECIFICATIONS: US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, FP-03 (US CUSTOMARY UNITS)

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: TECH. REVIEW: DATE: 02/2008	SUB SHEET NO. <b>C14</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER CROSS SECTIONS U.S. 41 BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>20</b> of <b>69</b>
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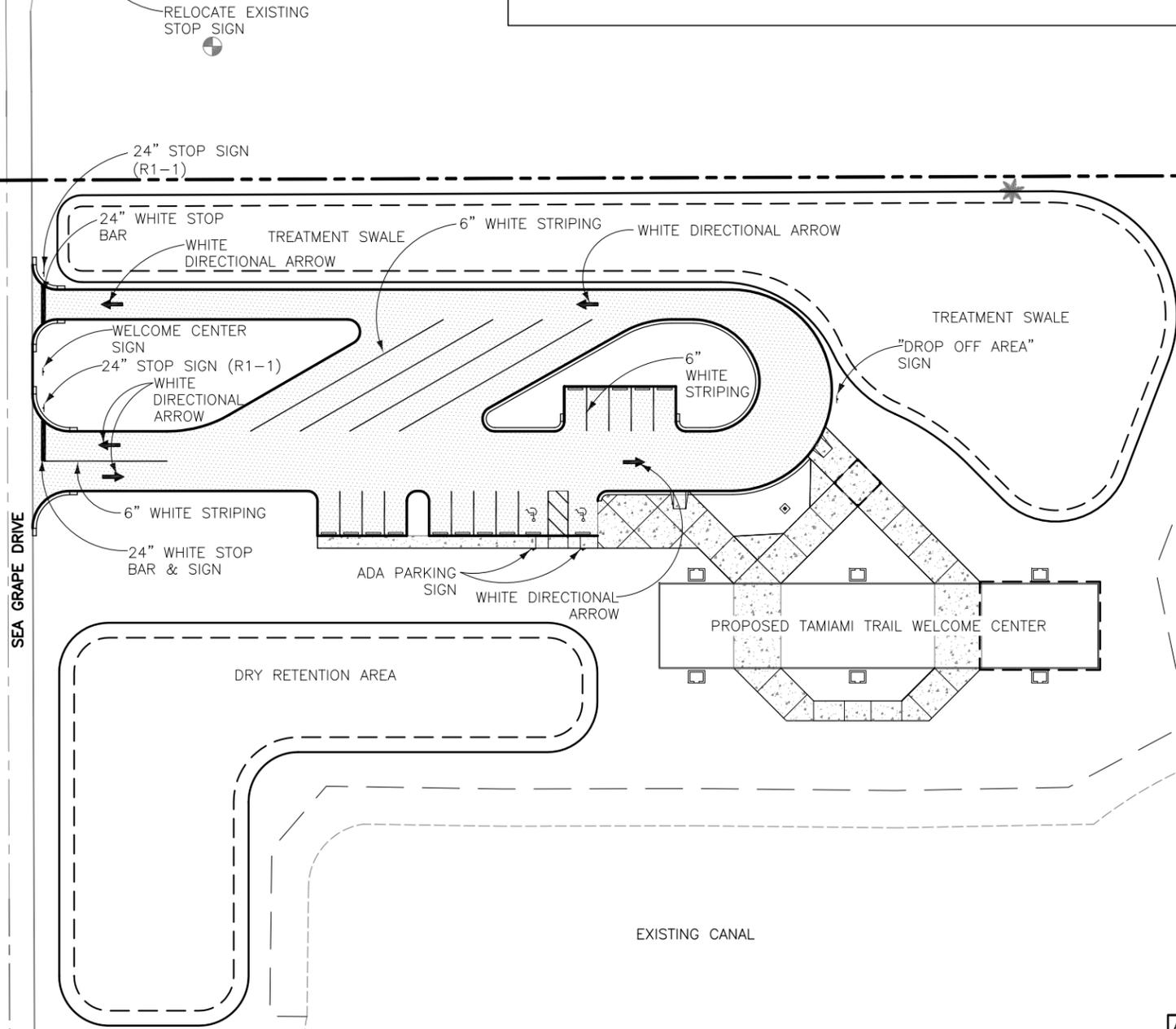
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		DATE: 02/2008		

NOTE:  
SEE SHEET C17 FOR TURN LANE STRIPING

S.R. 90 / US NO. 41  
TAMIAMI TRAIL EAST

NOTE:  
SIGNING IS INCLUDED IN SCHEDULE A.  
PARKING AREA STRIPING IS INCLUDED IN OPTION 1.

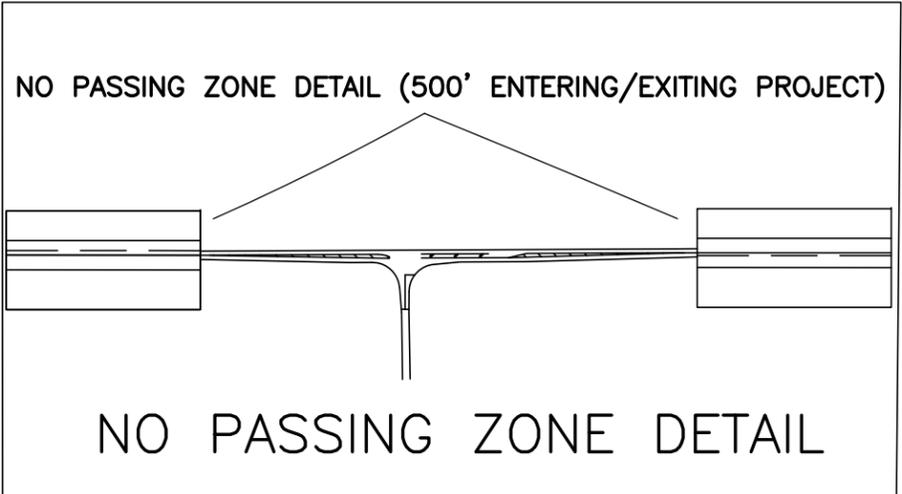
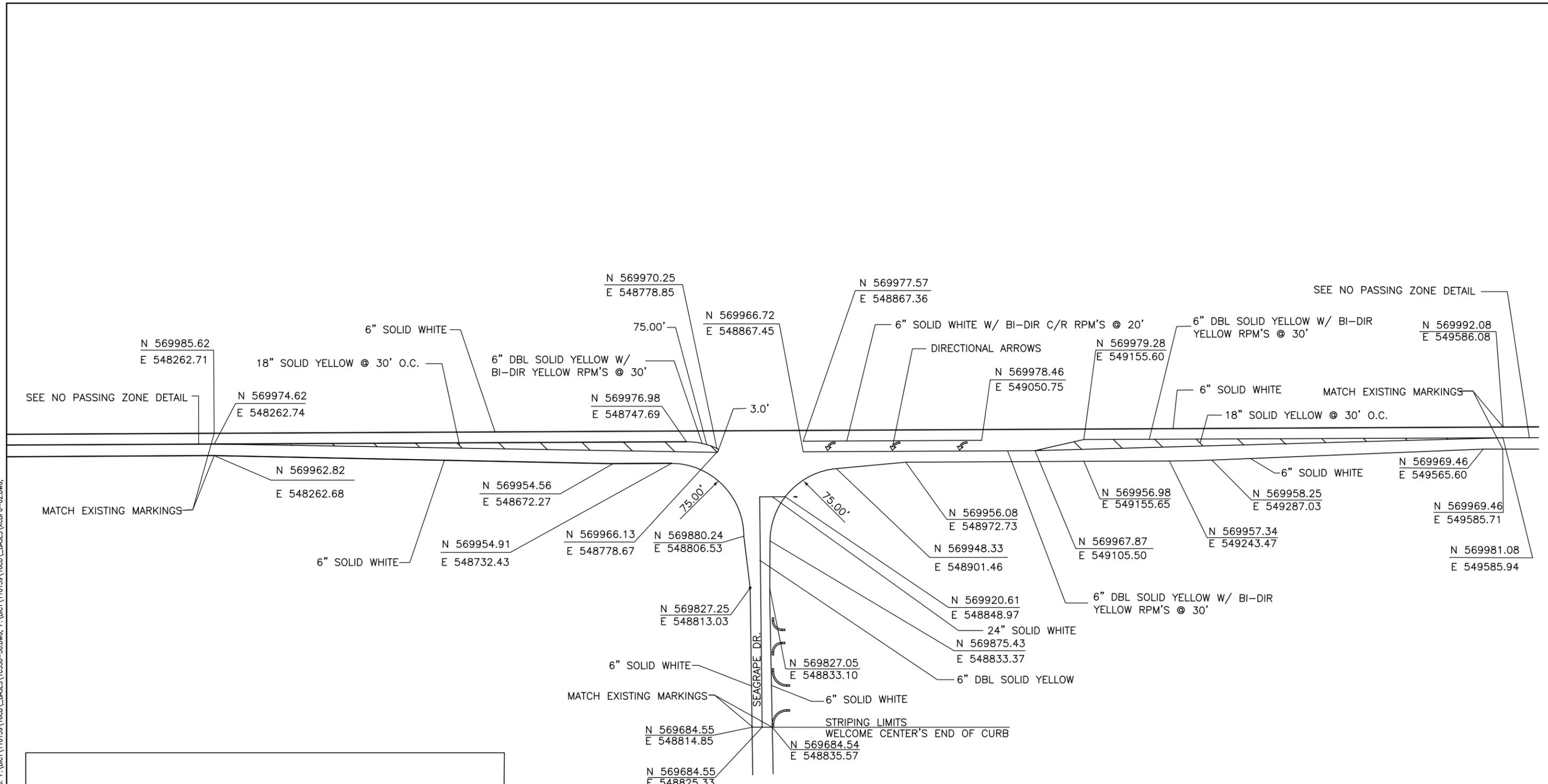


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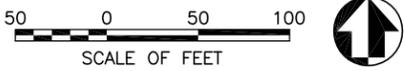
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	DATE: 02/2008			PMIS/PKG NO. 61948/110159
			SHEET	<b>22 of 69</b>

BIG CYPRESS NATIONAL PRESERVE

1/18/08 16:22 WPRITCHETT R17 P:\BIC\110159\16CD\CIVIL\17.DWG XREFS: P:\BIC\110159\16CD\\_BASES\1CS50-50.DWG; P:\BIC\110159\16CD\\_BASES\YCBPP-02.DWG;



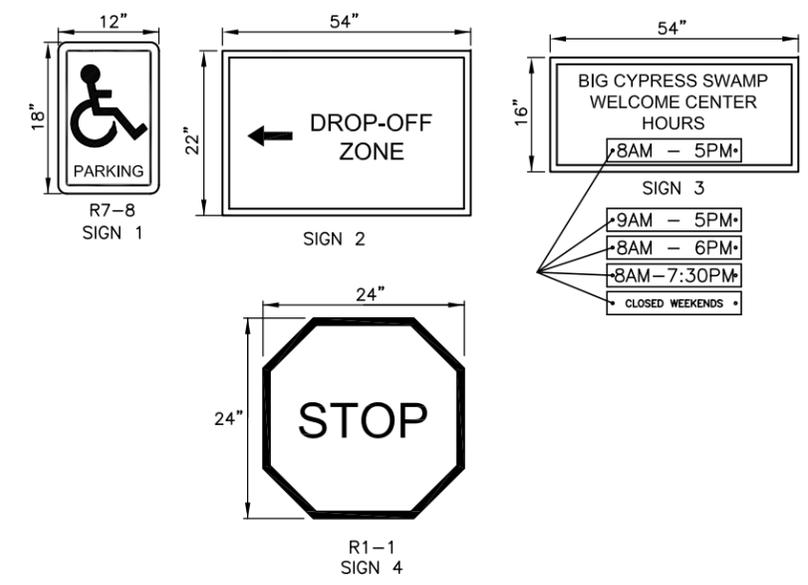
GOVERNING SPECIFICATIONS: US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, FP-03 (US CUSTOMARY UNITS)



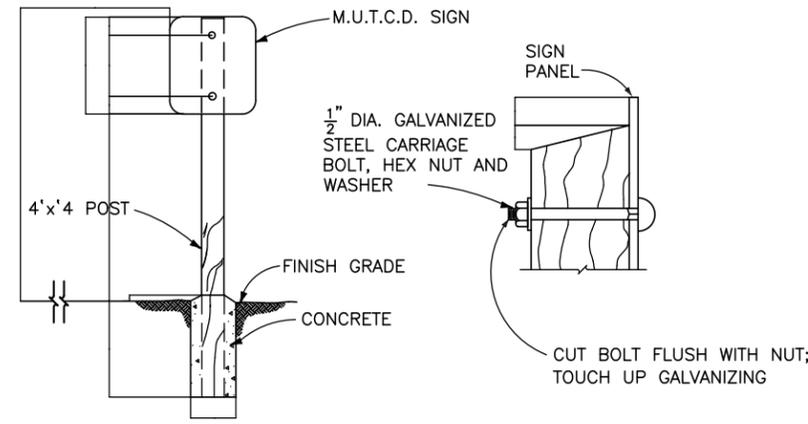
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: B. COLLINS @ADD B. COLLINS TECH. REVIEW: J. BURCHFIELD DATE: 02/2008	SUB SHEET NO. <b>C17</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER TURN LANE STRIPING BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> <b>41,009</b> PMIS/PKG NO. 61948/110159 SHEET <b>23</b> of <b>69</b>
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SIGN SCHEDULE						
SIGN NO.	NUMBER REQUIRED	SIGN TYPE OR CATEGORY	SIZE (WxH)	MATERIALS	COLOR	
					BACKGROUND	LETTERING
1	2	REGULATORY	12 X 18	ALUMINUM	BLUE	WHITE
2	1	REGULATORY	54 X 22	ALUMINUM	WHITE	BLACK
3	1	DIRECTIONAL	54 X 16	ALUMINUM	BROWN	WHITE
4	2	REGULATORY	24"	ALUMINUM	RED	WHITE

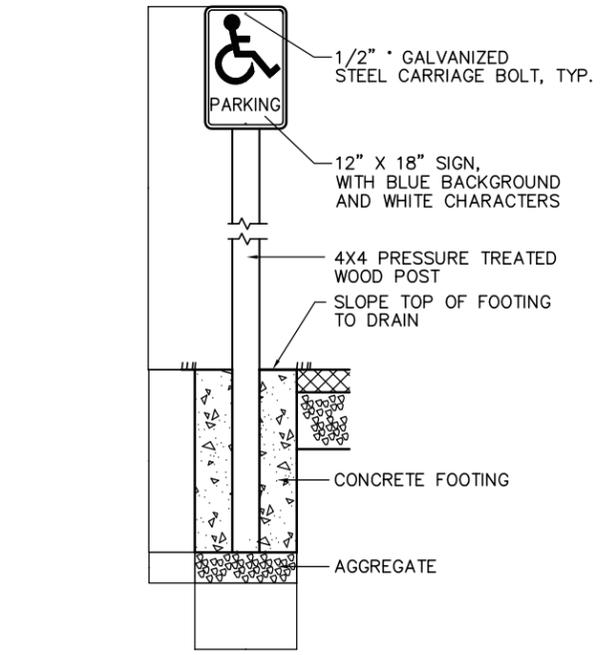
NOTE:  
SIGNS 1 AND 2 SHALL BE MOUNTED ON A SINGLE POST. SIGNS 3, 4, AND 5 SHALL BE MOUNTED ON DOUBLE POSTS.



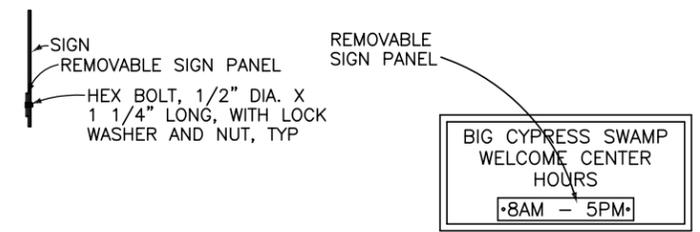
3 SITE SIGNAGE  
C16 NOT TO SCALE



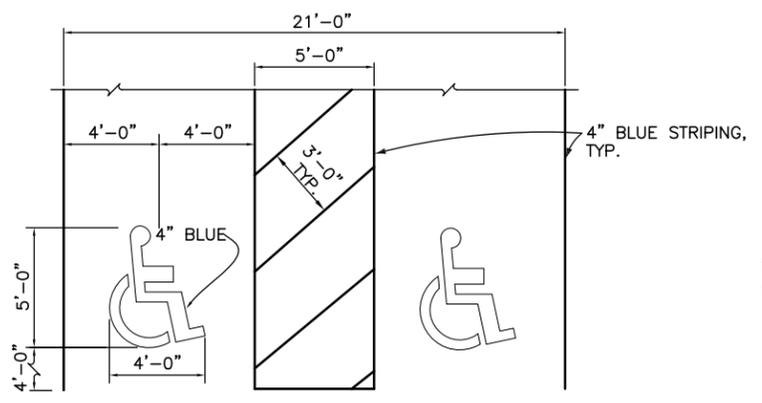
1 TYPICAL SIGN INSTALLATION  
C16 NOT TO SCALE



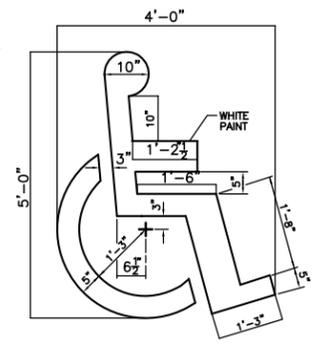
2 ACCESSIBLE PARKING SIGN  
C16 NOT TO SCALE



6 REMOVABLE SIGN PANEL  
C16 NOT TO SCALE



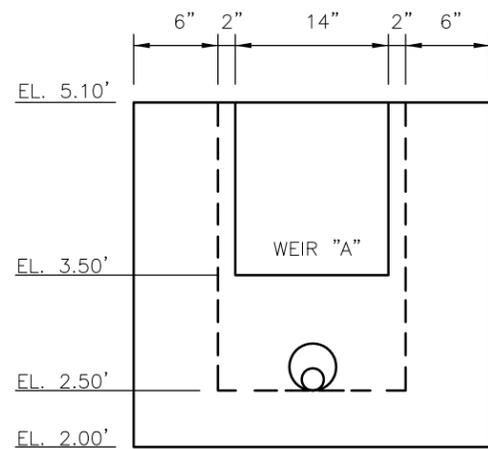
4 HANDICAP SYMBOL LAYOUT AND STRIPING  
C16 NOT TO SCALE



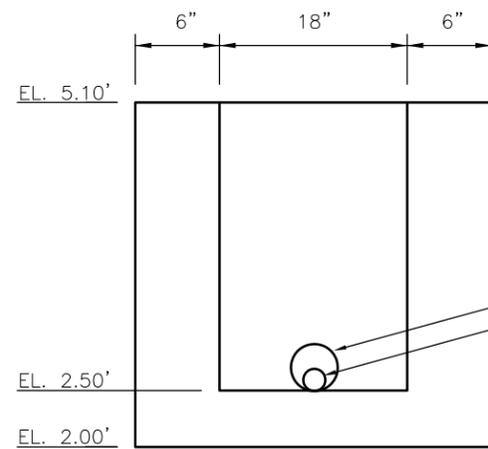
5 HANDICAP SYMBOL LAYOUT  
C16 NOT TO SCALE

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS TECH. REVIEW: T.MATTHEWS DATE: 02/2008	SUB SHEET NO. <b>C18</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER SIGN/STRIPING DETAILS BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>24</b> of <b>69</b>
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10/09/07 10:42 T.MATTHEWS R16 C:\PWORKING\TPA\DM548409\C18.DWG



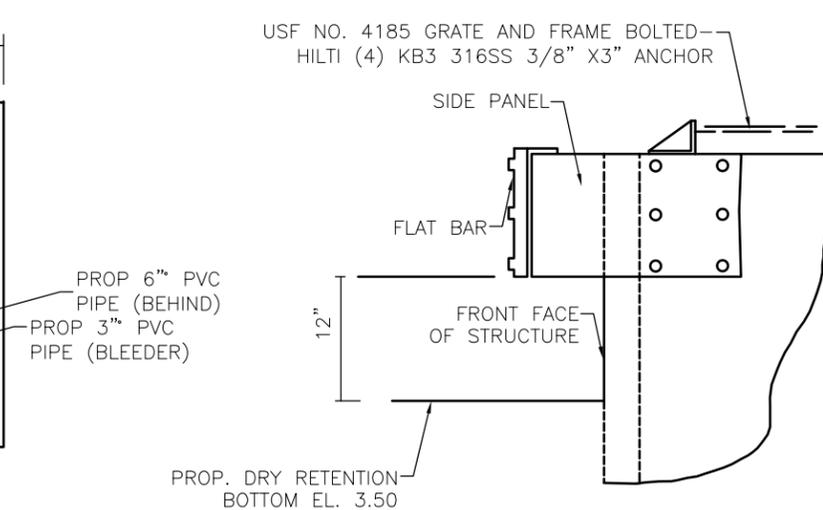
**SECTION A-A**  
N.T.S.



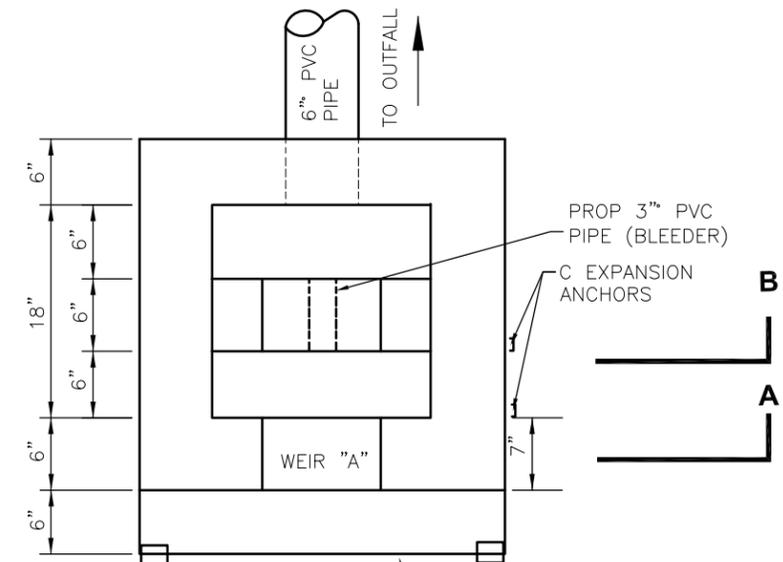
**SECTION B-B**  
N.T.S.

**PRE-CAST SKIMMER FOR OUTLET CONTROL STRUCTURE**

N.T.S.

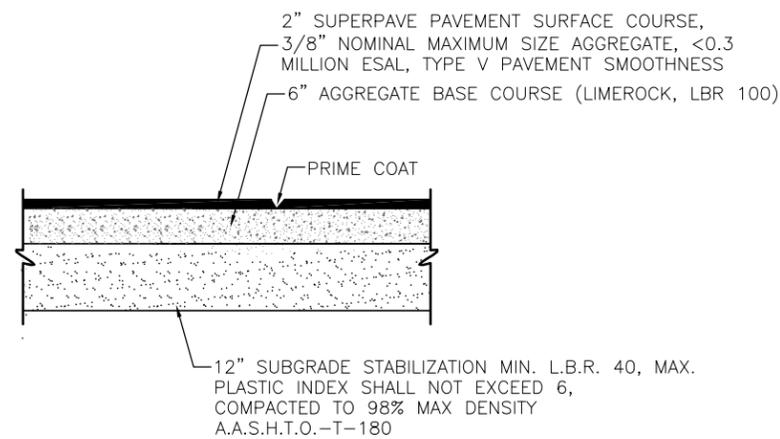


PROP. DRY RETENTION  
BOTTOM EL. 3.50

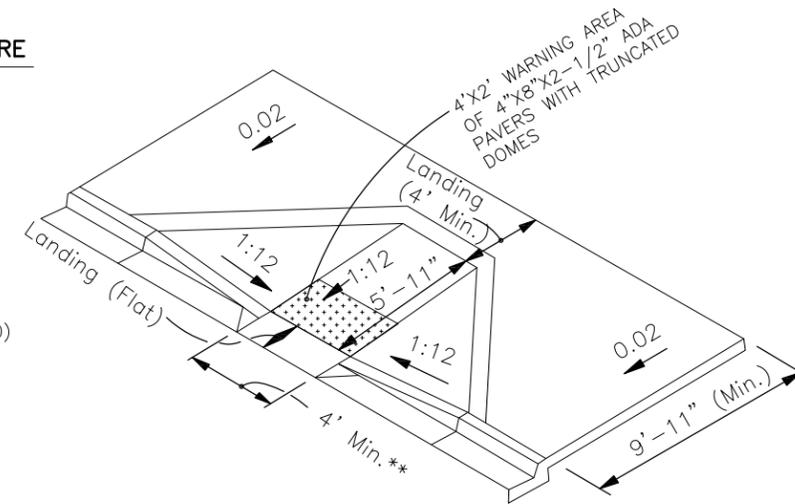


**PLAN**  
N.T.S.  
SKIMMER FRONT PANEL

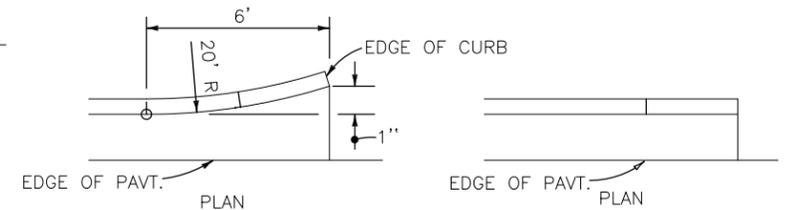
**1 CONTROL STRUCTURE**  
C3 N.T.S.



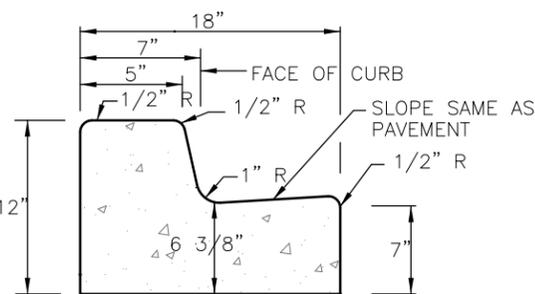
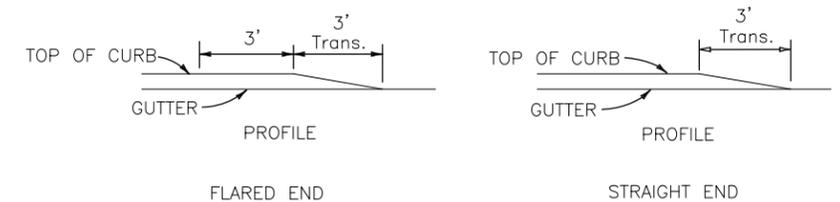
**4 ASPHALT PAVEMENT SECTION**  
C3 N.T.S.



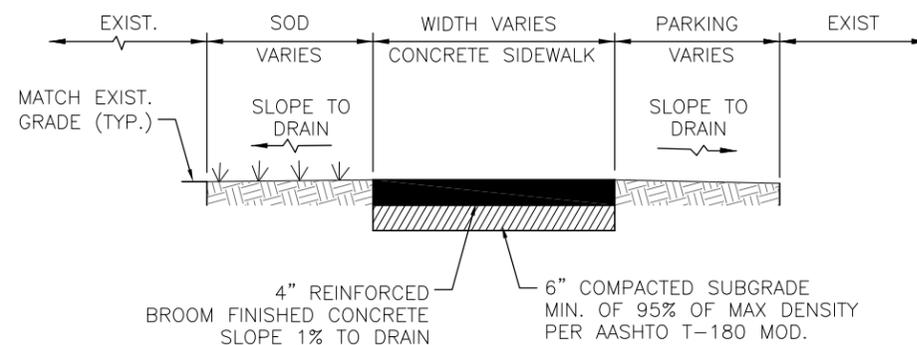
**6 SIDEWALK CURB RAMP**  
C3 N.T.S.



**7 CURB & GUTTER TRANSITION**  
C3 N.T.S.



**3 STANDARD CURB & GUTTER**  
C3 N.T.S.



**5 SIDEWALK DETAIL**  
C3 N.T.S.

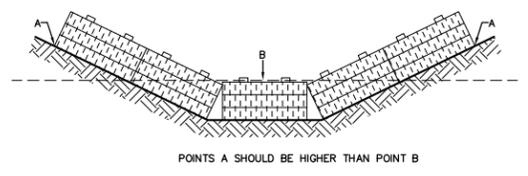
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: T.MATTHEWS	SUB SHEET NO. <b>C19</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER PARKING LOT DETAILS</b>	DRAWING NO. <b>176 41,009</b>
	TECH. REVIEW: T.MATTHEWS			PMIS/PKG NO. 61948/110159
	DATE: 5/08			SHEET <b>25</b> OF <b>69</b>
				BIG CYPRESS NATIONAL PRESERVE

6/19/08 10:50 JESSE VAN HORNE R17 P:\BICY\110159\1600\DWG\C19.DWG-REV6-08\HLDWG

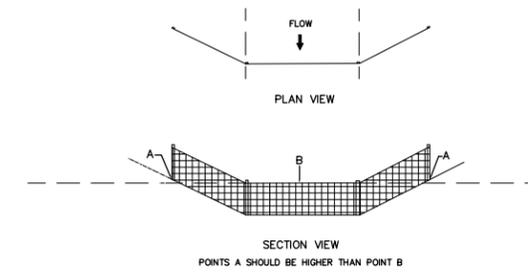
SEDIMENT AND EROSION CONTROL NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
- ADDITIONAL PROTECTION - ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
- BASE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
- IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
- BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
- LOOSE STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
- STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE STRAW BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND SOUTH FLORIDA WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
- FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.R.) CHAPTER 6.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
- SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
- ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
- DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
- ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTURBED AREAS THROUGH COMPACTION, SILT SCREENS, HAY BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
- ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
- THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
- THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SFWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

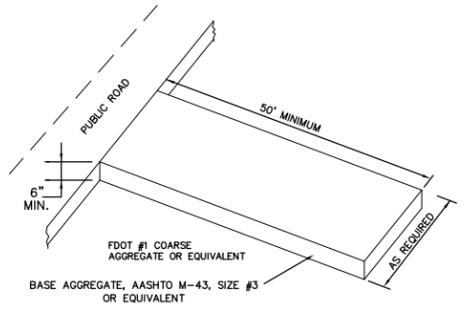
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS, THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT, MEETING THE NPDES FINAL STABILIZATION REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.
- 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S "NOTICE OF INTENT" PERMIT)
- FOR GRADING AND DRAINAGE PLAN SEE SHEET C5. FOR EROSION CONTROL PLAN SEE SHEET C2. FOR EROSION CONTROL DETAILS, SEE SHEET C20.



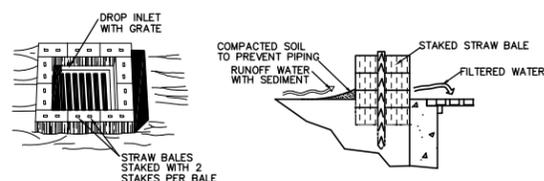
PROPER PLACEMENT OF STRAW BALE IN A DRAINAGE WAY  
N.T.S.



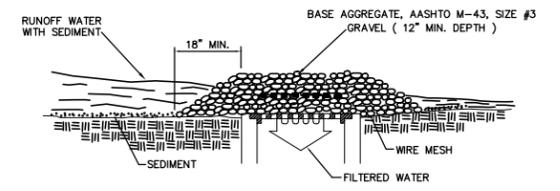
PROPER PLACEMENT OF A FILTER BARRIER IN DRAINAGE WAY  
N.T.S.



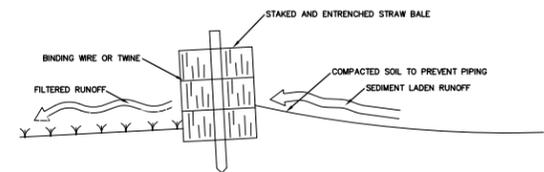
STABILIZED CONSTRUCTION ENTRANCE  
N.T.S.



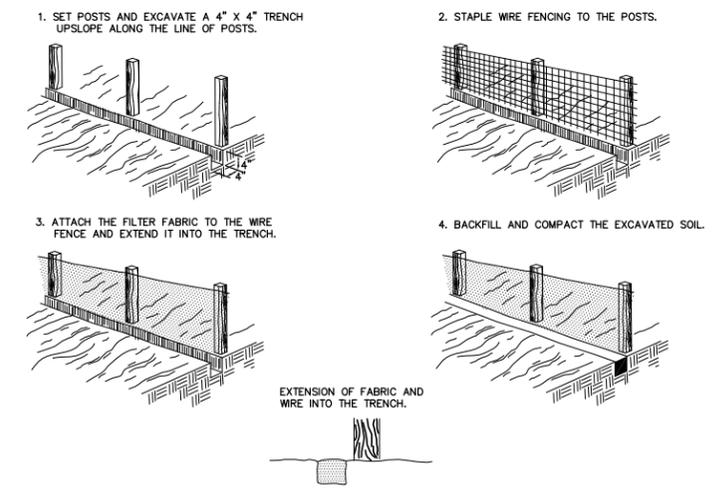
STRAW BALE DROP INLET SEDIMENT FILTER  
N.T.S.



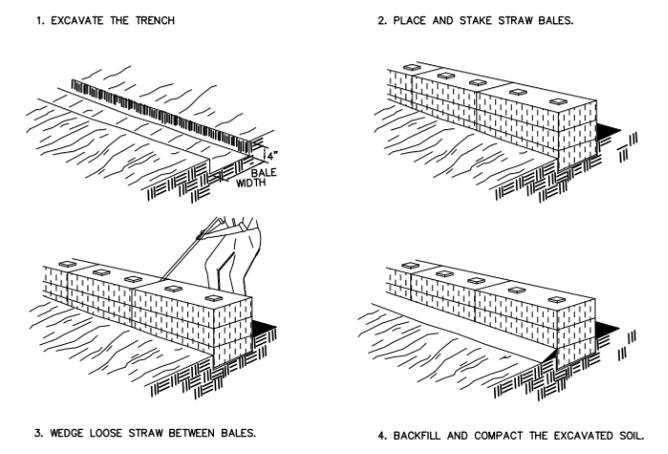
GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER  
N.T.S.



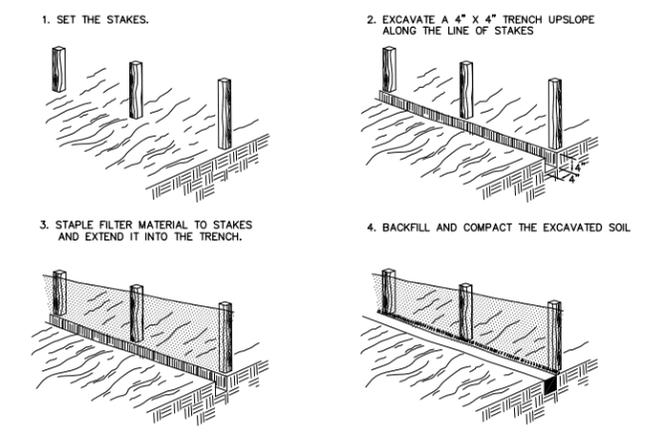
CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE  
N.T.S.



CONSTRUCTION OF SILT FENCE  
N.T.S.



CONSTRUCTION OF A STRAW BALE BARRIER  
N.T.S.



CONSTRUCTION OF A FILTER BARRIER  
N.T.S.

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: MATTHEWS BEDWELL TECH. REVIEW:	SUB SHEET NO. <b>C20</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER SEDIMENT & EROSION CONTROL DETAILS BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>26</b> of <b>69</b>
DATE: 02/2008				

1/11/08 14:29 WPRITCHETT R17 P:\BIC\110159\16CD\CIVIL\C20.DWG

**GENERAL NOTES:**

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH PROJECT PLANS, THE STANDARD SPECIFICATIONS (FP-03), THE SPECIAL CONTRACT REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)

2. UNLESS OTHERWISE NOTED IN THE PLANS, EXISTING PAVEMENT THRU LANE WIDTHS AND TEMPORARY TRAVEL LANES, IF APPLICABLE, ON STATE ROAD 90/US No. 41 SHALL BE NO LESS THAN 11 FEET IN WIDTH.

3. CONFLICTING OR MISLEADING PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLASTING OR OTHER METHODS APPROVED BY THE C.O.. ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE ALTERED SHALL BE REPLACED UPON COMPLETION OF THE PROJECT. ALL COSTS SHALL BE INCLUDED IN PRICE BID FOR MAINTENANCE OF TRAFFIC.

MARKING AND ADDING OF REMOVABLE OR TEMPORARY PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH THE MUTCD, PART 6.

4. TRAFFIC CONTROL FOR INTERSECTIONS SHALL BE IN ACCORDANCE WITH THE MUTCD, PART 6. LANE CLOSURE SHALL BE LIMITED TO ONE LANE AND AT ALL TIMES, AS A MINIMUM, ONE-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS. STREET NAME SIGNS, STOP SIGNS, AND STOP BARS SHALL BE RELOCATED AS NECESSARY AND MAINTAINED BY THE CONTRACTOR UNTIL WORK IS ACCEPTED.

5. ANY ADDITIONAL INTERRUPTIONS TO TRAFFIC WHICH ARE NOT SHOWN BY THE TRAFFIC CONTROL PLAN, BUT ARE NECESSARY TO CONSTRUCT THE PROJECT SHALL BE SUBMITTED IN WRITING TO THE C.O. AND APPROVAL SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, CALCULATIONS AND OTHER DATA AND SHALL BE SIGNED AND SEALED BY A SPECIALTY ENGINEER.

6. THE CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PHASES OF CONSTRUCTION.

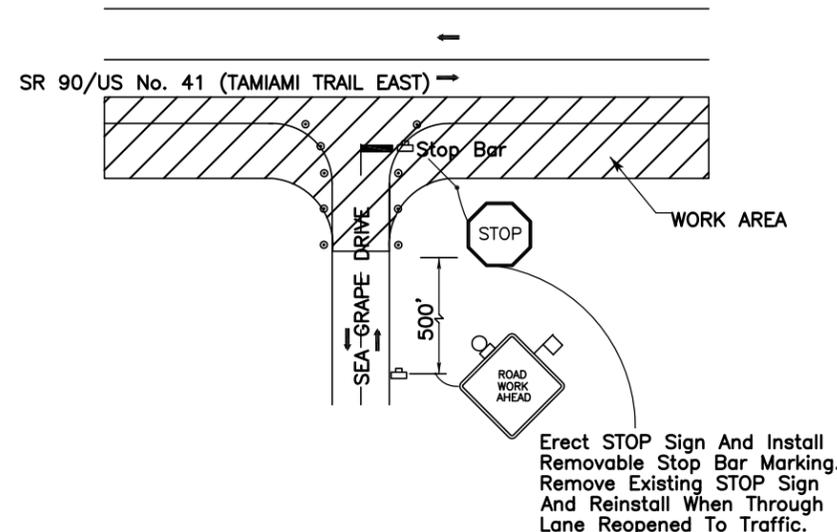
7. ACCESS TO ADJACENT PROPERTIES MUST BE MAINTAINED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.

8. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE THE C.O. TO RESTRICT OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED BY THE C.O. WITHOUT DELAY UNDER THESE CONDITIONS. THE CONTRACTOR SHALL ALSO RESPOND WITHIN TIME CONSTRAINTS OUTLINED IN THE STANDARD SPECIFICATIONS UPON NOTIFICATION BY THE C.O. TO ANY REQUESTS FOR CORRECTION, IMPROVEMENT OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES. THE COST FOR THIS SERVICE SHALL BE INCLUDED IN PAY ITEM 63501-0000.

9. THE CONTRACTOR SHALL INSTALL 6" WIDE TEMPORARY PAVEMENT MARKINGS INDICATING LANE LINES AND STORAGE AREAS FOR TURNING MOVEMENTS. ARROWS AND PAVEMENT MESSAGES SHALL BE PROVIDED TO COMPLETELY DEFINE TRAFFIC OPERATIONS DURING AND AT THE END OF EACH OPERATION AND/OR DAY'S OPERATIONS. COST TO BE INCLUDED IN THE LUMP SUM PRICE FOR MAINTENANCE OF TRAFFIC.

10. WHEN LANES ARE MAINTAINED ON PAVED SHOULDERS OR THE ROADWAY CROWN THEN UNEVEN LANES (W8-11) SIGNS SHALL BE INCLUDED IN ADVANCE OF THE WORK ZONE.

11. SEE PROJECT NOTES SHEET FOR ADDITIONAL TRAFFIC CONTROL NOTES.

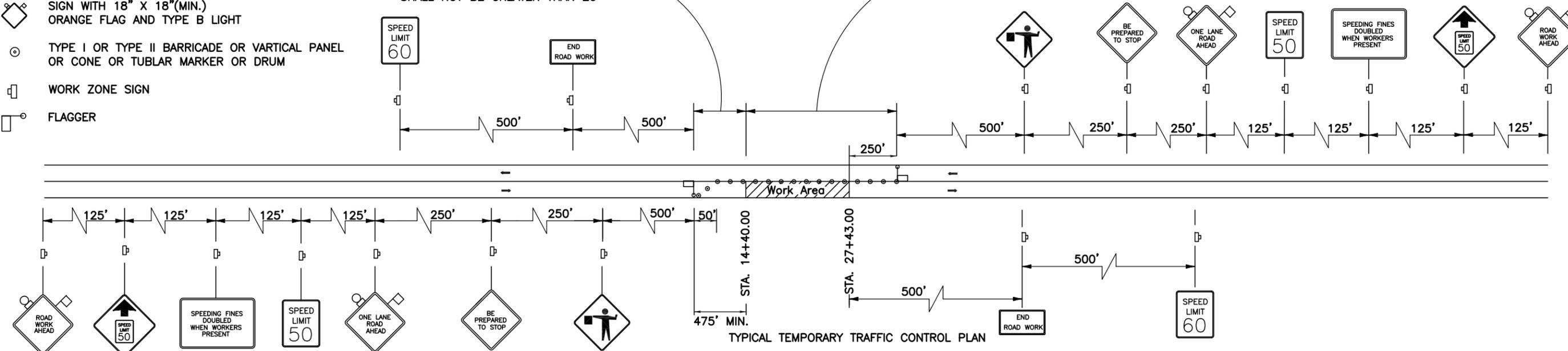


**SYMBOLS:**

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MAXIMUM SPACING BETWEEN BETWEEN DEVICES SHALL NOT BE GREATER THAN 20'

CONES OR TUBULAR MARKERS AT 20' CENTERS FOR FIRST 250' THEREAFTER AT 50' CENTERS OR EITHER TYPE ' OR TYPE '' BARRICADES OR VERTICAL PANELS OR DRUMS AT 50' CENTERS FOR FIRST 250' THEREAFTER AT 100' CENTERS.

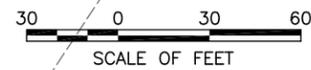
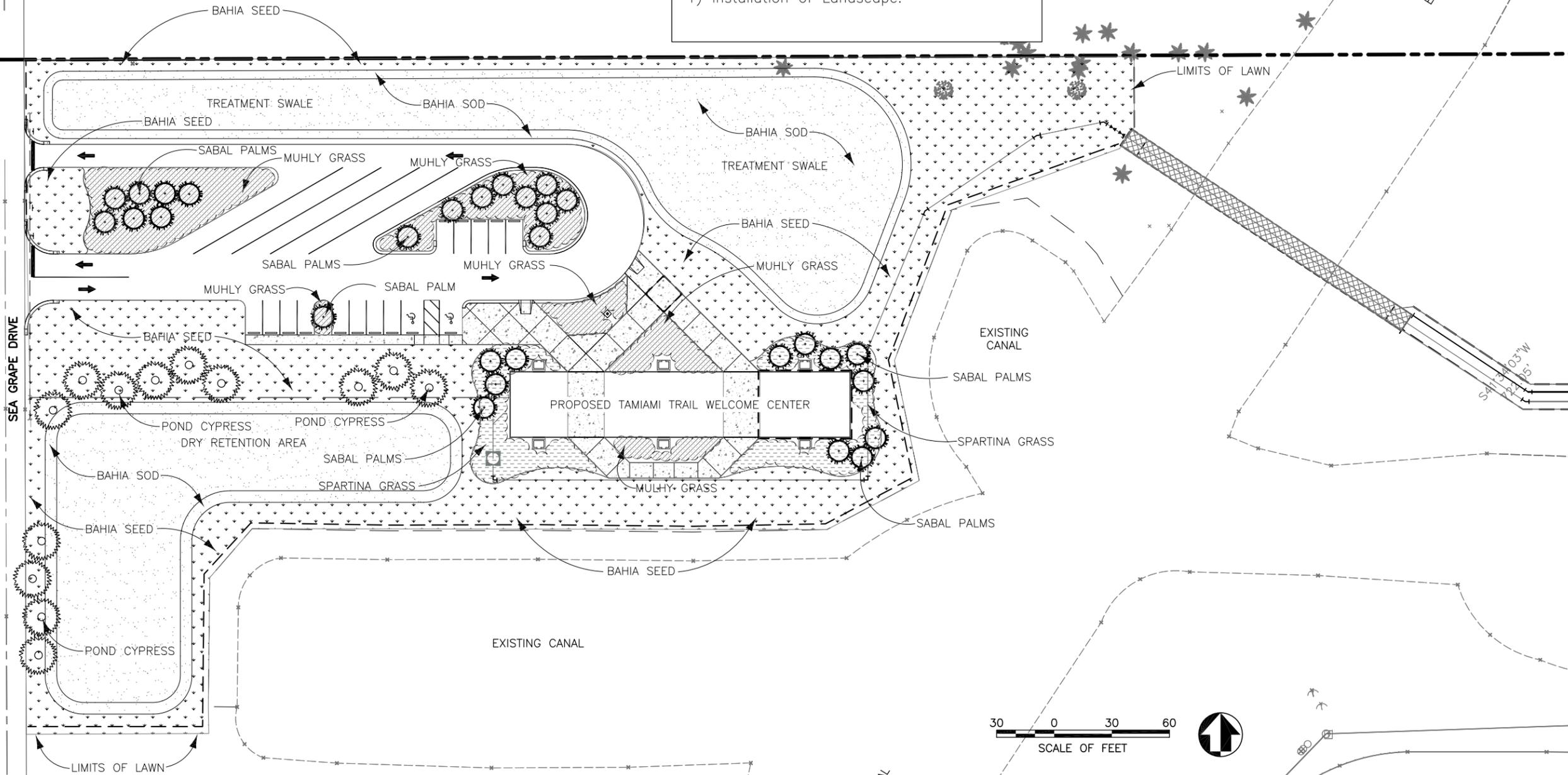


GOVERNING SPECIFICATIONS: US DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, FP-03 (US CUSTOMARY UNITS)

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: B. COLLINS GAD B. COLLINS TECH. REVIEW: J. BURCHFIELD DATE: 02/2008	SUB SHEET NO. <b>C21</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER TRAFFIC CONTROL PLAN BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>27</b> OF <b>69</b>
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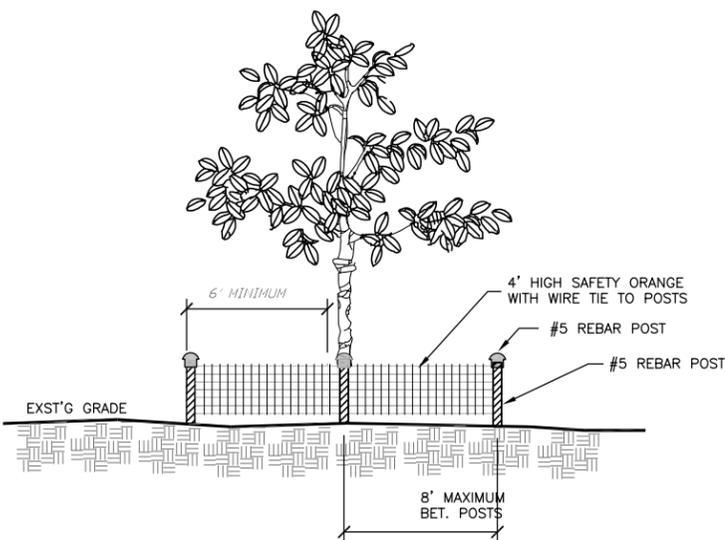
S.R. 90 / US NO. 41  
TAMIAMI TRAIL EAST

**GENERAL NOTES**  
**SCHEDULE A INCLUDES:**  
 1) Sod detention pond area. Seed remaining lawn area.  
 2) Detention area will be graded to more natural shape in field with the same detention capacity per SFWMD permit.  
**OPTION 4 INCLUDES:**  
 1) Installation of Landscape.



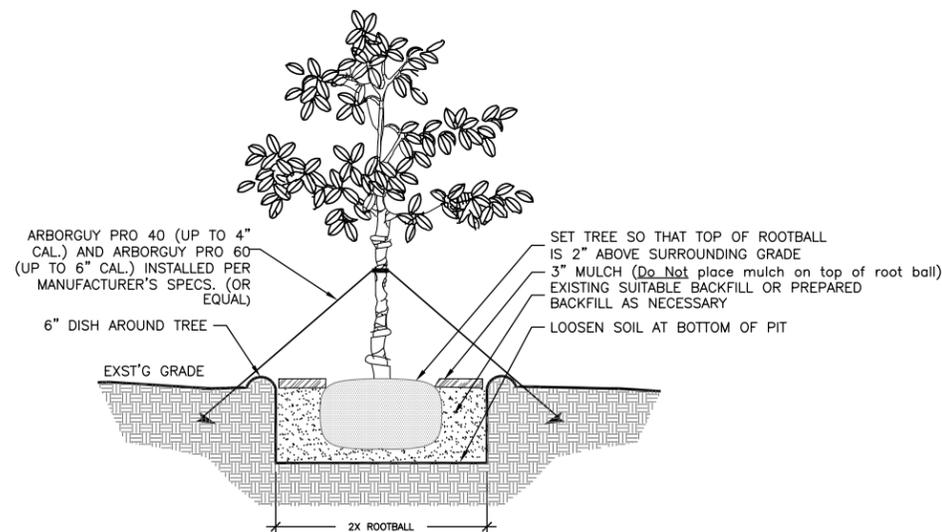
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: S. BULLOCK	SUB SHEET NO. <b>LA1</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER LANDSCAPE PLAN</b>	DRAWING NO. <b>176</b> <b>41,009</b>
	TECH. REVIEW: S. BULLOCK			PMIS/PKG NO. 61948/110159
	DATE: 02/2008		BIG CYPRESS NATIONAL PRESERVE	SHEET <b>28</b> of <b>69</b>

5/15/08 14:48 WDEVME R17 P:\BIC\110159\16CD\CIVIL\LA-1.DWG XREFS: ..\dms48406\YCDPO.dwg\F:\BIC\110159\16CD\_BASES\XCBP0-01.dwg\XCSP0.dwg\XLEC.dwg\XASPO.dwg\WBEO-50.dwg\WBEI-50.dwg



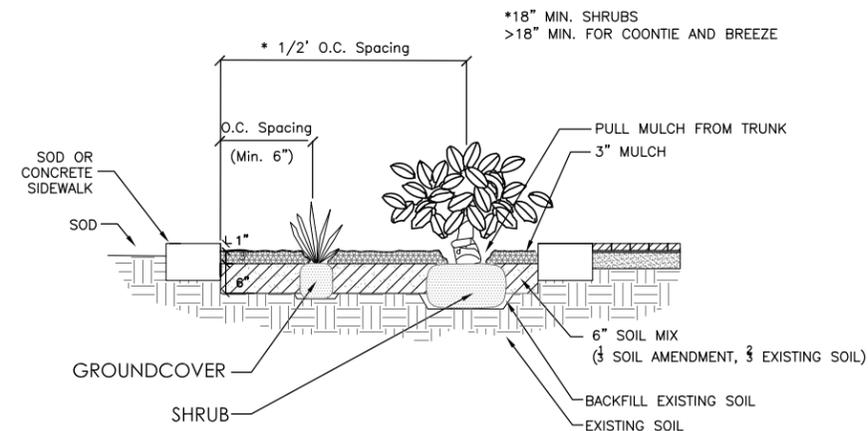
**1** TREE PROTECTION DETAIL  
LA2 NOT TO SCALE

PLACE TREE PROTECTION BARRIER AROUND ALL PROTECTED TREES SHOWN TO REMAIN WITHIN CONSTRUCTION AREAS AND WITHIN 6' OF CONSTRUCTION. TREE PROTECTION BARRIER NOT REQUIRED WHERE SILT FENCE IS PROPOSED ON PERIMETER OF CONSTRUCTION AREAS.



**2** TREE PLANTING DETAIL  
LA2 NOT TO SCALE

ALL TREES ARE TO BE POSITIONED VERTICALLY REGARDLESS OF THE SLOPE OF THE GROUND IN WHICH THEY ARE PLANTED. WATER RINGS ARE TO BE CONSTRUCTED AT RIGHT ANGLES TO THE TREE OR SHRUB OR IN A MANNER IN WHICH THEY WILL MOST EFFECTIVELY SERVE THE PURPOSE OF RETAINING WATER AT THE BASE OF THE PLANT.

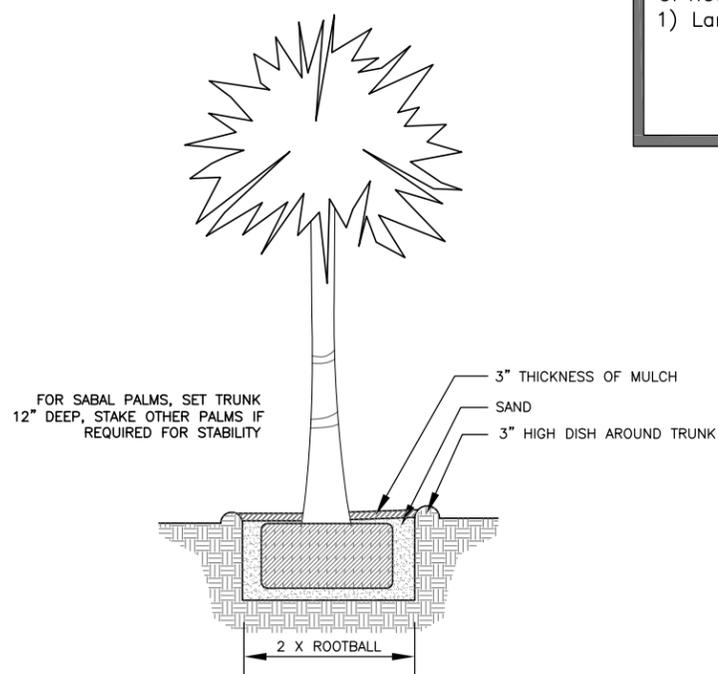


**3** SHRUB/GROUNDCOVER PLANTING DETAIL  
LS2 NOT TO SCALE

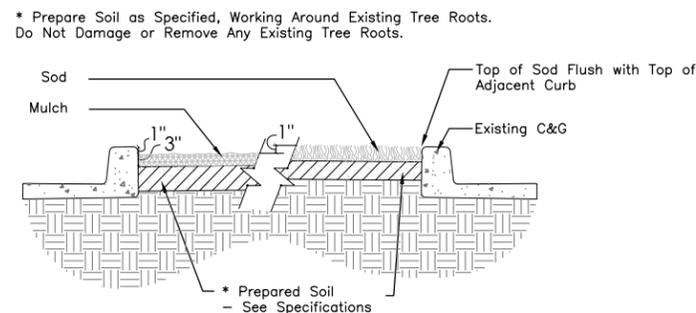
**GENERAL NOTES**  
SCHEDULE A INCLUDES:  
1) Seed and mulch all disturbed areas per owners specifications.  
2) Temporary irrigation with water truck or hose bibs until plant material is established. Coordinate with owner.

OPTION 4 INCLUDES:  
1) Landscape as shown on LA-1.

LANDSCAPE SCHEDULE					
QUANTIT	SYMBO	COMMON NAME	BOTANICAL NAME	DESCRIPTION	NOTES
<b>TREES</b>					
46		Cabbage Palm	Sabal palmetto	B&B, 8-16' CT Ht., clean trunk of boots	
11		Black Mangrove	Aucennia germinanus	3G, 24" Ht., 24" Spr., 1/2" cal.	
12		White Mangrove	Laguncularia racemosa	3G, 24" Ht., 24" Spr., 1/2" cal.	
20		Pond Cypress	Taxodium ascendens	45G, 10'-15' Ht., 4' Spr., 3" cal.	
<b>SHRUBS AND GROUND COVER</b>					
786		Sand Cord Grass	Spartina bakeri	3G, 24" Ht. 18" Spd., Full, 3' O.C.	
1881		Gulf Muhly Grass	Muhlenbergia capillaris	3G, 24" Ht. 18" Spd., Full, 3' O.C.	
1450		Blanket Flower	Gaillardia pulchell	1G, 8" Ht. 8" Spd., Full	
<b>SOD</b>					
50,222 SF		Argentine Bahia	Paspalum notatum		
<b>MULCH</b>					
26,000 SF		Pine Straw		Spread 6"+/- thick to allow for compaction.	
<i>Notes:</i>					



**4** PALM PLANTING DETAIL  
LA2 NOT TO SCALE



**5** MULCH/SOD DETAIL AT CURB  
LA2 NOT TO SCALE

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: SNB TECH. REVIEW: SNB	SUB SHEET NO. <b>LA2</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER LANDSCAPE DETAILS</b>	DRAWING NO. <b>176</b> 41,009
DATE: 02/2008			BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159 SHEET <b>29</b> of <b>69</b>

**LIFE SAFETY ANALYSIS**

BUILDING CODE	2004 FLORIDA BUILDING CODE W 2005 SUPPLEMENT
ACTUAL BUILDING AREA	COMFORT SATAION- 883 GSF VISITORS CENTER- 2035 GSF (GALLERY) MULTIPURPOSE CENTER- 1554 GSF WEST BREEZEWAY- 822 GSF EAST BREEZEWAY- 726 GSF
TOTAL ACTUAL AREA	5970 GSF
ACTUAL BUILDING HEIGHT	1 STORY
USE AND OCCUPANCY	A-3 (EXHIBITION HALL/LECTURE HALL)
TYPE OF CONSTRUCTION	TYPE V (ANY MATERIAL ALLOWED IN CODE PERMITTED FOR STRUCTURAL ELEMENTS, EXTERIOR WALLS, INTERIOR PARTITIONS) UNSPRINKLERED, UNPROTECTED
ALLOWABLE HEIGHT AND AREA	HEIGHT- 1 STORY AREA- 6000SF + 100% INCREASE FOR OPEN AREA = 12,000 SF
FIRE RESISTANCE RATINGS	0 HOURS FOR ALL BUILDING ELEMENTS

**NOTES**

1. STEEL COLUMN TO BE INSTALLED IF BID OPTION 2 IS NOT AWARDED

2. EXTEND 6" METAL STUDS TO ROOF DECK ABOVE ON TOP OF ALL ICF WALLS THAT TERMINATE AT 8'-3" AFF. ALL METAL STUD PARTITIONS SHALL EXTEND TO ROOF DECK ABOVE.

**LEGEND**

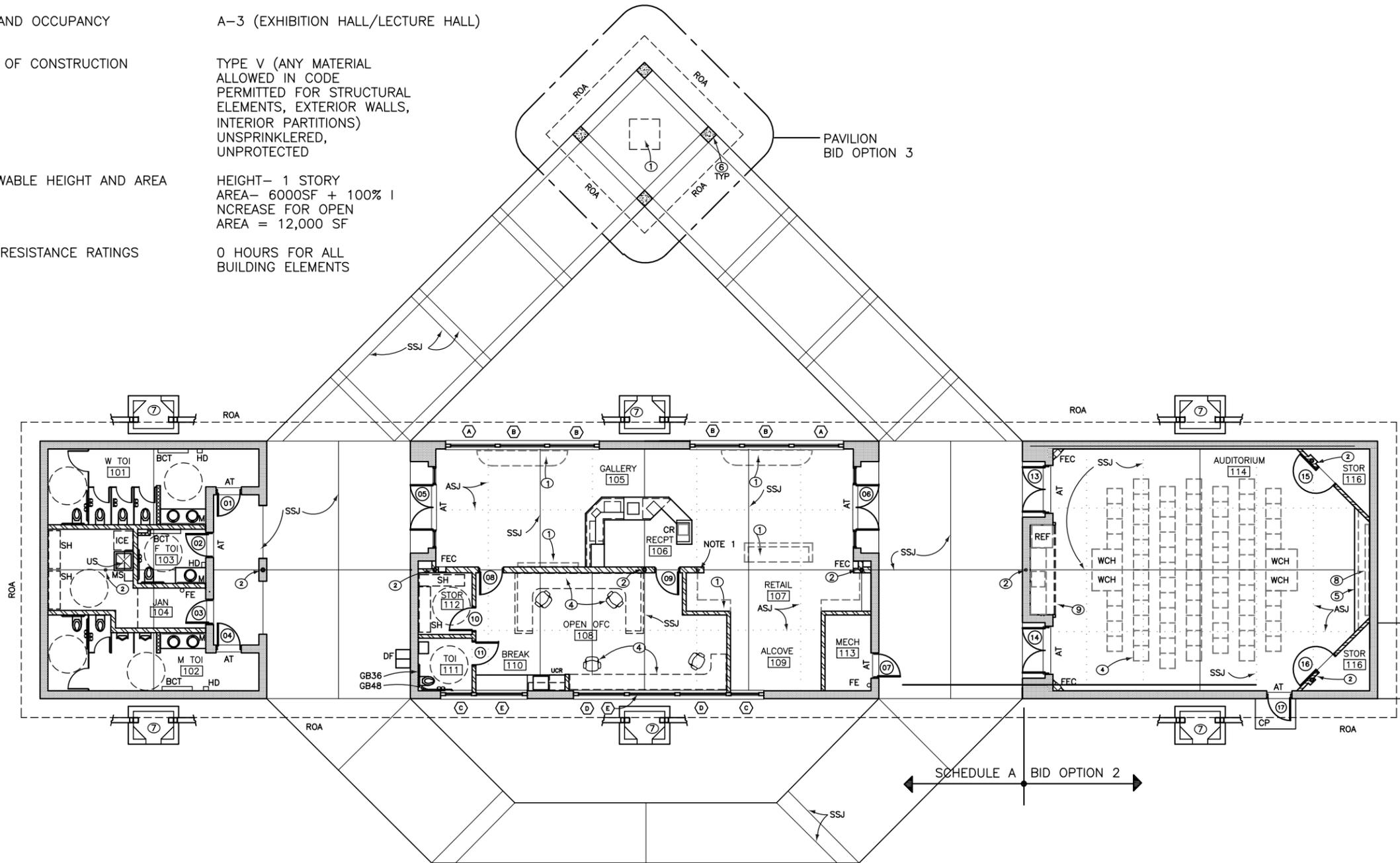
ROA	ROOF OVERHANG ABOVE
M	MIRROR
BCT	BABY CHANGING TABLE
REF	REFRIGERATOR (NIC)
UCR	UNDER COUNTER REFRIGERATOR (NIC)
MS	MOP SINK (SEE PLUMBING)
SH	WIRE SHELVING
ICE	ICE MACHINE
CR	CASH REGISTER (NIC)
FE	BRACKET MOUNTED FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER IN RECESSED CABINET
HD	ELECTRIC HAND DRYER
AT	ALUMINUM THRESHOLD
WCH	WHEELCHAIR SPACE
GB36	36" GRAB BAR
GB48	48" GRAB BAR
US	6' UTILITY SHELF
SSJ	STRUCTURAL SAWN JOINT IN CONCRETE FLOOR
ASJ	AESTHETIC SAWN JOINT IN CONCRETE FLOOR 1/4" DEEP
CP	4' CONCRETE PAD
Ⓣ	WINDOW SYMBOL- SEE WINDOW SCHEDULE ON SHEET A11
Ⓛ	DOOR INDICATOR- SEE DOOR SCHEDULE ON SHEET A11
Ⓞ	5' DIAMETER WHEELCHAIR TURNING AREA

**KEYNOTES**

- ① DISPLAY UNIT (NIC)
- ② STEEL COLUMN (SEE STRUCTURAL)
- ③ SEATING (NIC)
- ④ FURNITURE (NIC)
- ⑤ SPEAKER COMPARTMENT BELOW
- ⑥ POURED CONCRETE COLUMN
- ⑦ WATER DISSIPATION STRUCTURE- SEE DETAILS ON SHEET A17 & A18
- ⑧ PROJECTION EQUIPMENT (NIC)
- ⑨ ROLL DOWN COUNTER SHUTTER

**WALL LEGEND**

- ICF CONCRETE WALL (SEE STRUCTURAL) W EIFS EXTERIOR FINISH AND 5/8" GYPSUM WALLBOARD ON INTERIOR SURFACE, UNLESS NOTED OTHERWISE
- 5/8" GYPSUM WALL BOARD ON GALVANIZED METAL STUDS AT 1'-6" OC. STUDS TO BE 3/8" UNLESS NOTED OTHERWISE.
- 6'-0" HIGH PARTITION W 6" METAL STUDS AND CORAL PATTERN WALL PANELS.



**NOTE:**  
SEE SHEET A2 FOR DIMENSIONS AND REFERENCES

1 FLOOR PLAN- ANNOTATIONS

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN GADD JHK TECH. REVIEW:	SUB SHEET NO. <b>A1</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER ANNOTATED FLOOR PLAN</b>	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>30</b> OF <b>69</b>
DATE: 02/2008			BIG CYPRESS NATIONAL PRESERVE	

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**GENERAL NOTES**

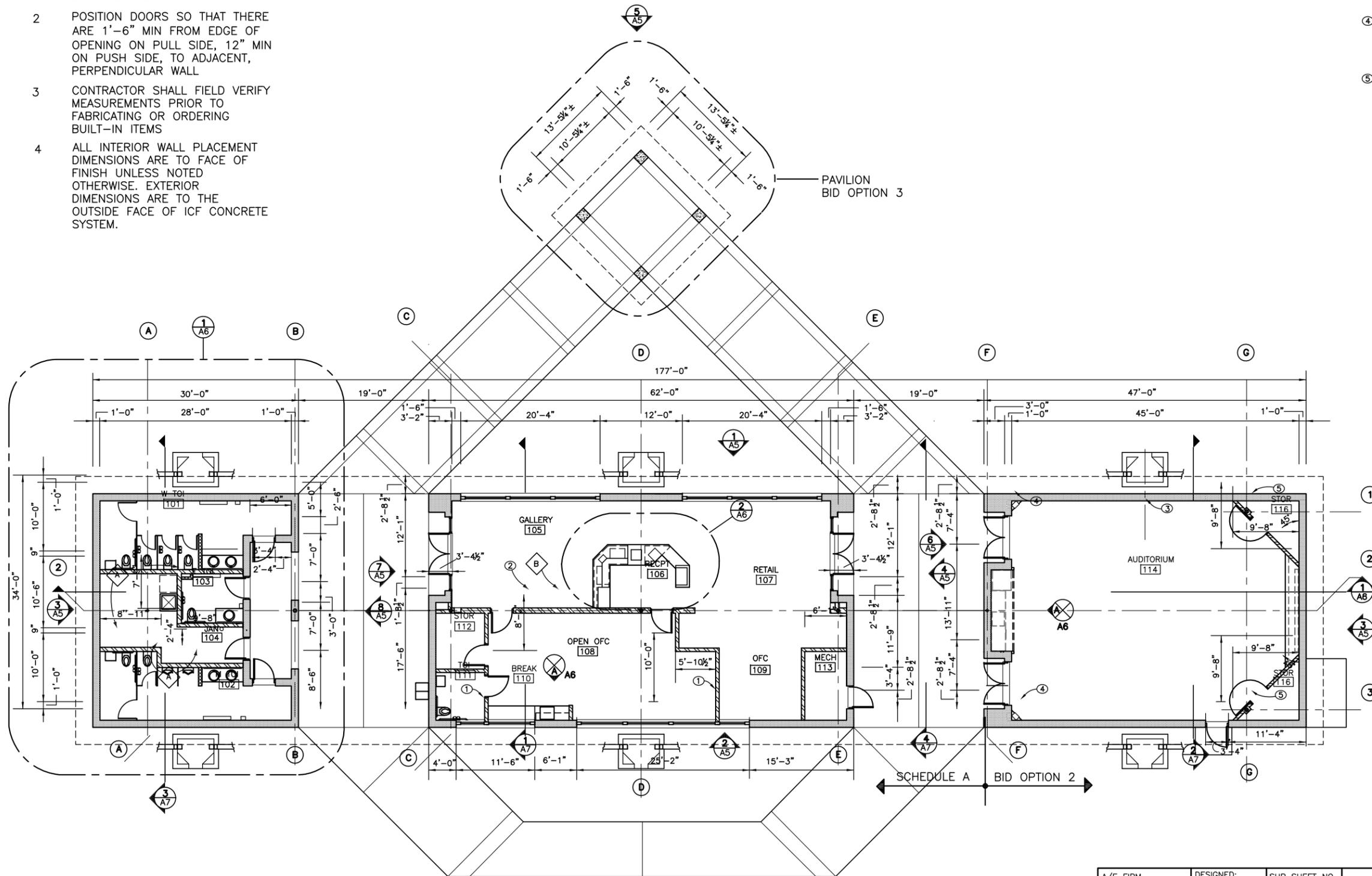
- 1 POSITION ALL DOORS SO THAT EDGE OF DOOR ON HINGE SIDE IS 6" FROM ADJACENT PERPENDICULAR WALL WHEN DOOR IS OPEN 90°
- 2 POSITION DOORS SO THAT THERE ARE 1'-6" MIN FROM EDGE OF OPENING ON PULL SIDE, 12" MIN ON PUSH SIDE, TO ADJACENT, PERPENDICULAR WALL
- 3 CONTRACTOR SHALL FIELD VERIFY MEASUREMENTS PRIOR TO FABRICATING OR ORDERING BUILT-IN ITEMS
- 4 ALL INTERIOR WALL PLACEMENT DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO THE OUTSIDE FACE OF ICF CONCRETE SYSTEM.

**LEGEND**

- ① ALIGN  $\text{C}$  OF PARTITION W  $\text{C}$  OF WINDOW MULLION
- ② ALIGN  $\text{C}$  OF PARTITION W  $\text{C}$  OF COLUMNS
- ③ ALIGN  $\text{C}$  OF WATER DISSIPATION STRUCTURE W  $\text{C}$  OF WALL (TYP)
- ④ FURR OUT WALL W METAL STUDS AND GYPSUM WALLBOARD TO CONCEAL FEC. FRAMING TO BE 45° TO ADJACENT WALLS
- ⑤ FURR OUT WITH METAL STUDS AND GYPSUM WALLBOARD TO CONCEAL COLUMN. VERIFY EXACT PLACEMENT OF WALL DEPENDING ON COLUMN PLACEMENT. COORDINATE W STRUCTURAL

**WALL LEGEND**

-  ICF CONCRETE WALL (SEE STRUCTURAL) W EIFS EXTERIOR FINISH AND 5/8" GYPSUM WALLBOARD ON INTERIOR SURFACE, UNLESS NOTED OTHERWISE
-  5/8" GYPSUM WALL BOARD ON GALVANIZED METAL STUDS AT 1'-6" OC. STUDS TO BE 3/8" UNLESS NOTED OTHERWISE.
-  6'-0" HIGH PARTITION W 6" METAL STUDS AND FINISHED WALL PANELS. SEE DETAIL XXXX
-  6" METAL STUDS THIS WALL
-  8" METAL STUDS THIS WALL



1 A1 FLOOR PLAN- DIMENSIONS

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN	SUB SHEET NO. <b>A2</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER FLOOR PLAN- DIM</b>	DRAWING NO. <b>176 41,009</b>
	TECH. REVIEW: JHK			PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET <b>31 of 69</b>
	BIG CYPRESS NATIONAL PRESERVE			

**GENERAL NOTES**

1. HVAC AND LIGHTING DEVICES ARE SHOWN ON THIS SHEET FOR THE PURPOSE OF GENERAL COORDINATION OF THE PLACEMENT OF CEILING MOUNTED DEVICES. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION AND REQUIREMENTS CONCERNING THESE DEVICES.

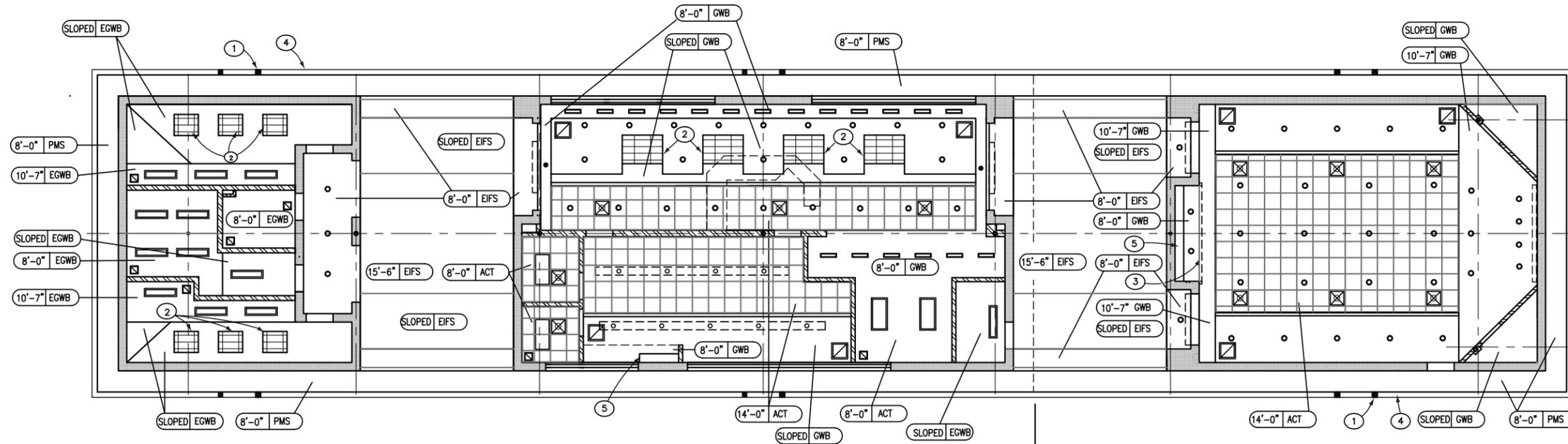
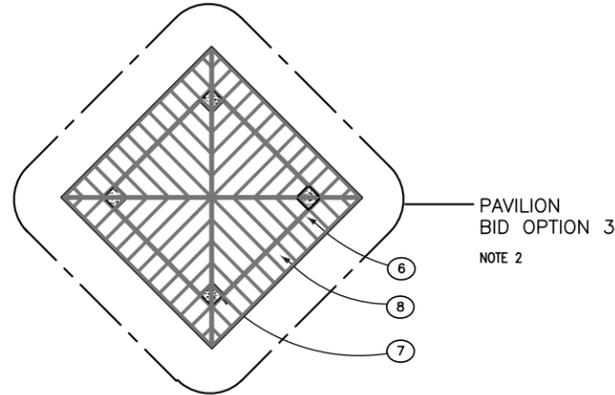
2. PAINT UNDERSIDE OF PAVILION DECK, ALL EXPOSED SURFACES OF ROOF FRAMING MEMBERS, AND METAL CONNECTORS (WHITE)

**KEYNOTES**

- ① DOWNSPOUT (TYP)
- ② TRANSLUCENT, INSULATED SKYLIGHT. VERIFY PLACEMENT W STRUCTURAL ROOF FRAMING PLAN. UNITS IN ROOMS 101 AND 102 SHALL BE 3'-0", UNITS IN ROOM 105 SHALL BE 5'-0" (OVERALL DIMENSIONS).
- ③ ROLL-DOWN SHUTTER
- ④ GUTTER
- ⑤ FURR-DOWN OVER WALL CABINET
- ⑥ 2 X 4 PRESSURE TREATED WOOD FRAMING (SEE STRUCTURAL)
- ⑦ CONCRETE COLUMN
- ⑧ EXPOSED 2 X 6 TOUNGE AND GROOVE P.T. WOOD DECKING WITH 1/2" P.T. PLYWOOD ON TOP.

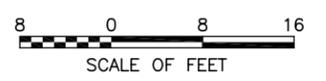
**LEGEND**

- 8'-0" GWB - CEILING TYPE
- CEILING HEIGHT ABOVE FINISHED FLOOR
- 3/4" EXTERIOR INSULATION & FINISH SYSTEM ON 5/8" GYPSUM SHEATHING AND GALV METAL STUDS SPACED AT 1'-6" OC
- 5/8" GYPSUM WALLBOARD ON GALV METAL STUDS AT 1'-6" OC
- 5/8" EXTERIOR TYPE, MOISTURE & MILDEW RESISTANT GYPSUM WALLBOARD ON GALV METAL STUDS AT 1'-6" OC
- SUSPENDED ACOUSTICAL LAY-IN CEILING, 2' X 2', TEGULAR, WHITE
- PERFORATED METAL SOFFIT TO MATCH ROOF COLOR ON HOT DIPPED GALV METAL STUDS AT 1'-4" OC
- 5/8" GYPSUM WALLBOARD ON 7/8" FURRING CHANNELS ATTACHED TO ROOF JOISTS
- 2' X 4' FLOURESCENT LIGHT FIXTURE (SEE ELECTRICAL)
- 1' X 4' FLOURESCENT LIGHT FIXTURE (SEE ELECTRICAL)
- RECESSED COMPACT FLOURESCENT FIXTURE (SEE ELECTRICAL)
- DISPLAY LIGHTING FIXTURE (SEE ELECTRICAL)
- SUSPENDES LINEAR FLOURESCENT FIXTURE (SEE ELECTRICAL)
- EXIT LIGHT (SEE ELECTRICAL)
- HVAC DIFFUSER (SEE MACHANICAL)
- RETURN AIR GRILLE (SEE MECHANICAL)
- RETURN/EXHAUST GRILL (SEE MECHANICAL)
- AIR CURTAIN FAN (SEE MECHANICAL)



SCHEDULE A    BID OPTION 2

1 REFLECTED CEILING PLAN  
A3



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN	SUB SHEET NO. <b>A3</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER REFLECTED CEILING PLAN</b>	DRAWING NO. <b>176 41,009</b>
	TECH. REVIEW: JHK			PMIS/PKG NO. 61948/110159
	DATE: 02/2008		SHEET <b>32 of 69</b>	

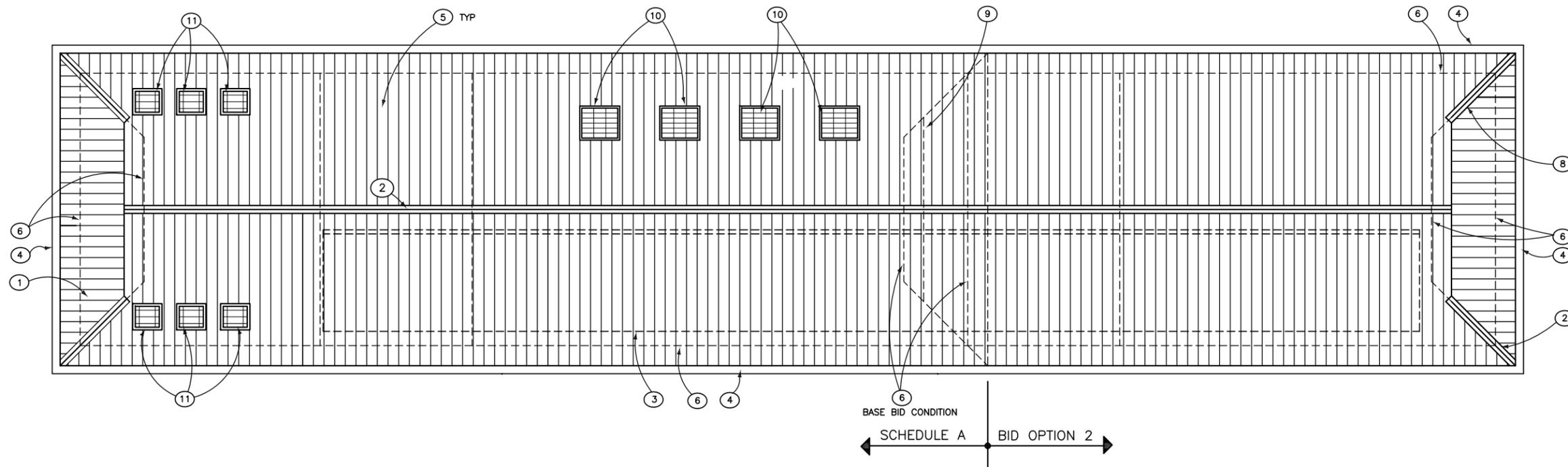
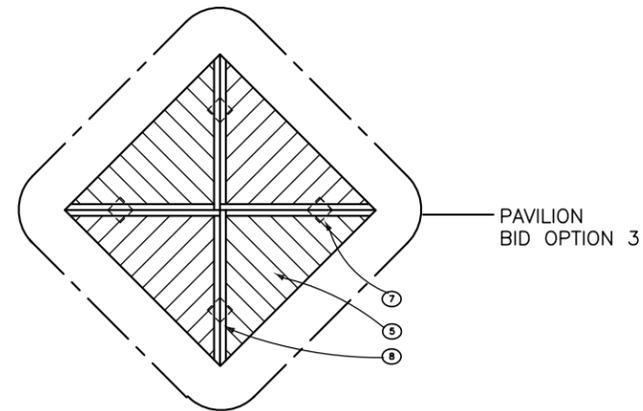
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**LEGEND**

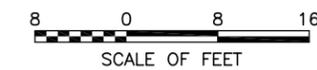
- ① STANDING SEAM METAL ROOFING OVER VAPOR BARRIER ON 5/8" RIGID BOARD
- ② RIDGE FLASHING
- ③ PHOTO-VOLTAIC ARRAY (FUTURE, NIC)
- ④ GUTTER
- ⑤ STANDING SEAM METAL ROOFING OVER WOOD DECK
- ⑥ EXTERIOR WALL BELOW
- ⑦ COLUMN BELOW
- ⑧ HIP FLASHING
- ⑨ GABLE END CONDITION AT BASE BID
- ⑩ 5' X 5' TRANSLUCENT, INSULATED, IMPACT RESISTANT SKYLIGHT
- ⑪ 3' X 3' TRANSLUCENT, INSULATED, IMPACT RESISTANT SKYLIGHT

**GENERAL NOTES**

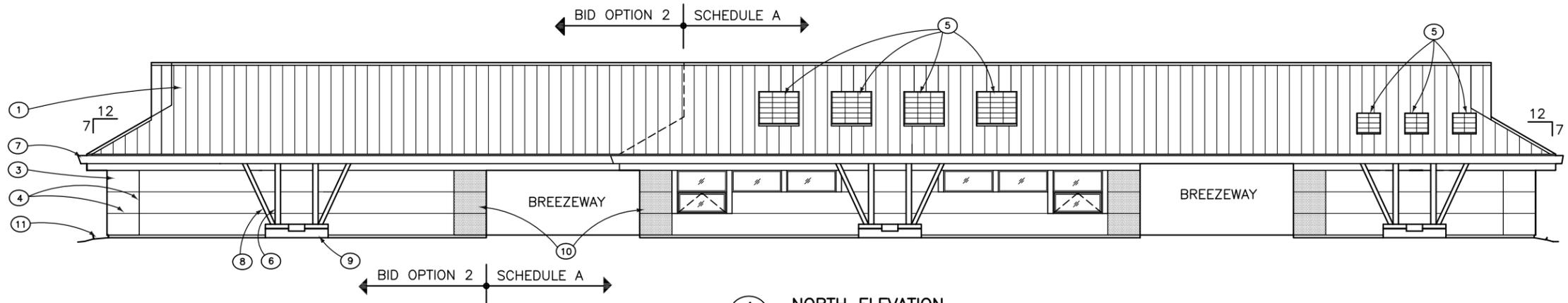
1. SEE SHEET A14 FOR ROOFING DETAILS
2. PROVIDE 3' STRIP OF ROOF UNDERLAYMENT ON EACH SIDE OF RIDGES AND HIP AND AROUND ALL PENETRATIONS



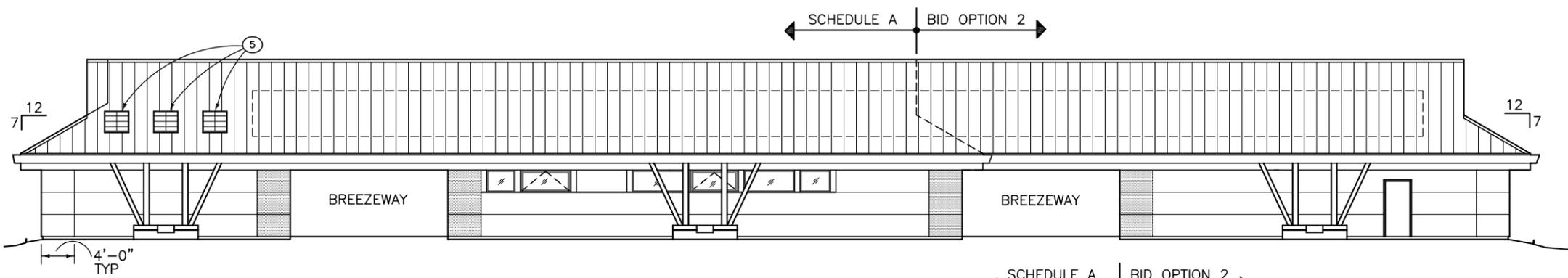
1 ROOF PLAN  
A4



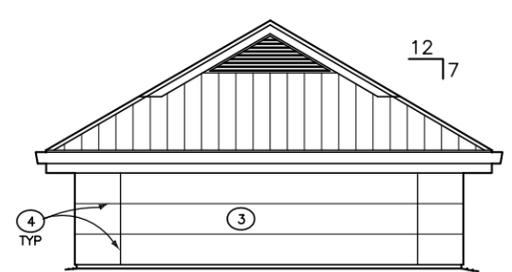
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	TECH. REVIEW: JHK			PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET <b>33</b> of 69
	BIG CYPRESS NATIONAL PRESERVE			



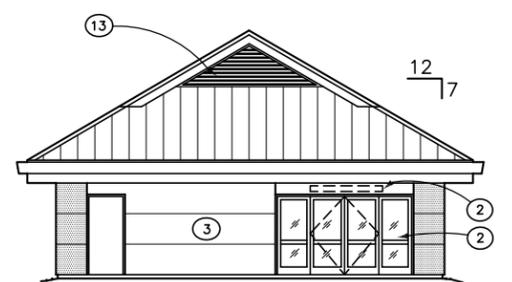
1 NORTH ELEVATION  
A4



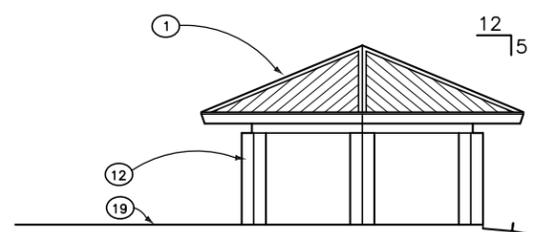
2 SOUTH ELEVATION  
A5



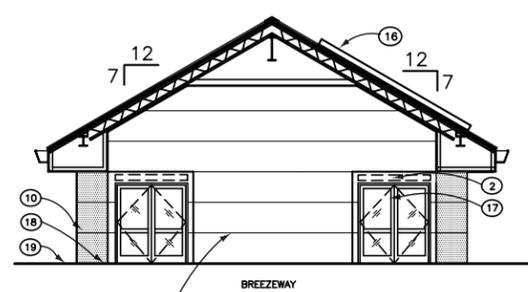
3 EAST ELEVATION  
A5 SCHEDULE A



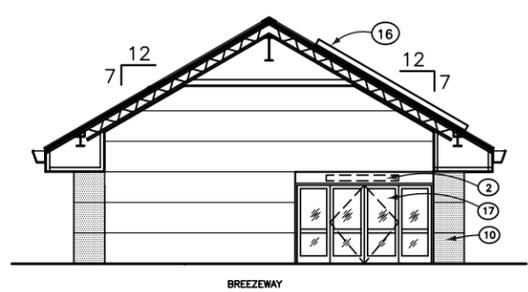
4 WEST ELEVATION  
A5 EAST ELEVATION (BID OPTION 2)



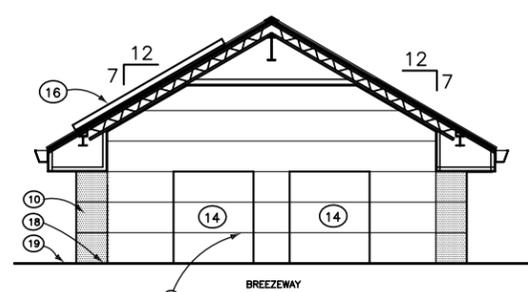
5 ELEVATION AT PAVILION  
A5 BID OPTION 3- SEE CIVIL FOR LOCATION



6 ELEVATION AT BREEZEWAY  
A5 (BID OPTION 2)



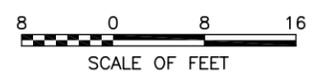
7 ELEVATION AT BREEZEWAY  
A5



8 ELEVATION AT BREEZEWAY  
A5

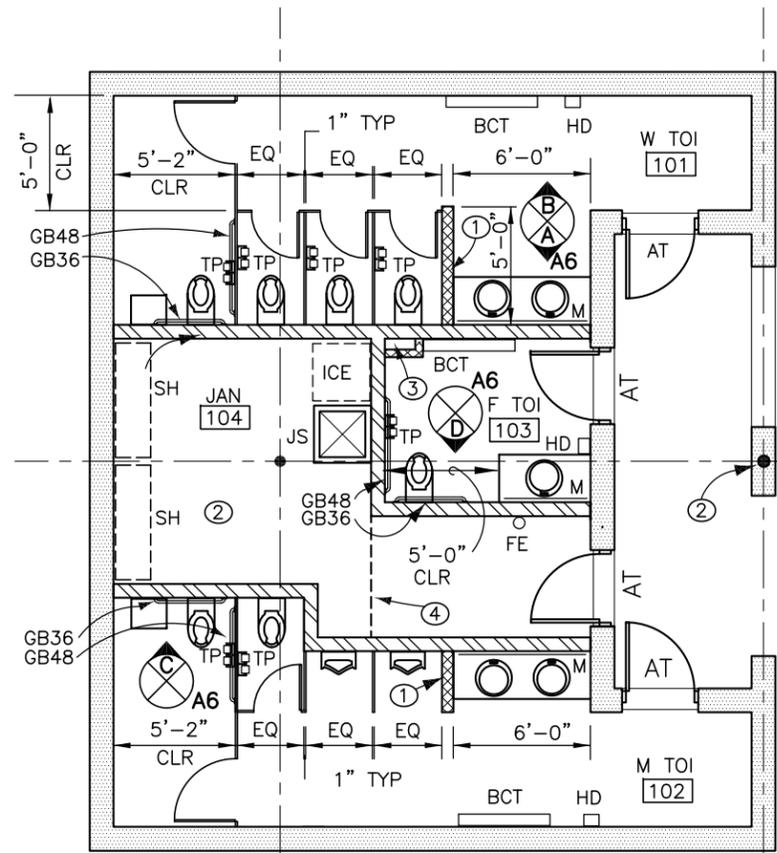
KEYNOTES

- ① STANDING SEAM METAL ROOFING
- ② AIR CURTAIN FAN (SEE MECHANICAL)
- ③ EIFS FINISH ON ICF CONCRETE WALLS
- ④ CONSTRUCTION JOINT
- ⑤ TRANSLUCENT, INSULATED SKYLIGHT
- ⑥ DOWNSPOUT
- ⑦ GUTTER
- ⑧ SUPPORT MEMBER TO MATCH DOWNSPOUT
- ⑨ WATER DISSIPATION BASIN
- ⑩ CORAL PATTERN WALL PANEL
- ⑪ FINISHED GRADE
- ⑫ POURED CONCRETE COLUMN
- ⑬ WATERPROOF LOUVER (BLANKED OUT EXCEPT FOR EXHAUST DUCT. SEE MECHANICAL)
- ⑭ PRESSURE TREATED WOOD FRAMING AND FASCIA
- ⑮ OPEN TO ALCOVE
- ⑯ PHOTOVOLTAIC ARRAY (FUTURE, NIC)
- ⑰ ALUMINUM STOREFRONT ENTRANCE
- ⑱ CONCRETE FLOOR AT BREEZEWAY
- ⑲ CONCRETE WALKWAY. SLOPE AWAY FROM BREEZEWAY (SEE CIVIL)

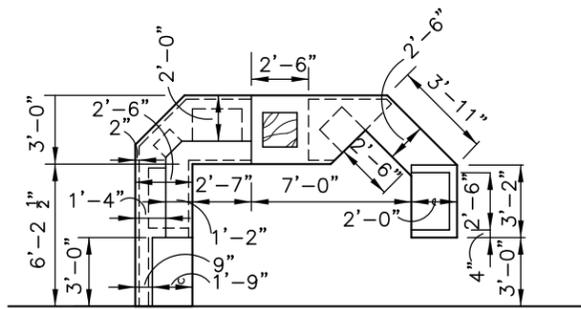


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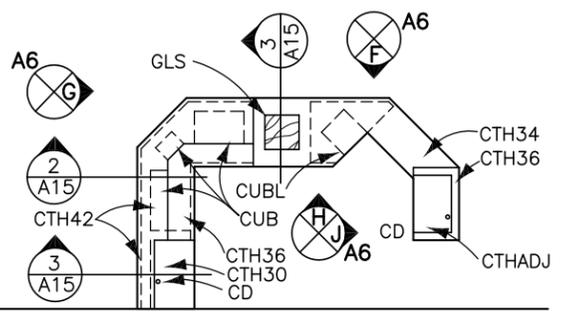
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN	SUB SHEET NO.  <b>A5</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER EXTERIOR ELEVATIONS</b>	DRAWING NO. <b>176</b> <b>41,009</b>
	TECH. REVIEW: JHK			PMIS/PKG NO. 61948/110159
	DATE: 08/17/07			SHEET <b>34</b> OF <b>69</b>
				TITLE OF PROJECT BIG CYPRESS NATIONAL PRESERVE



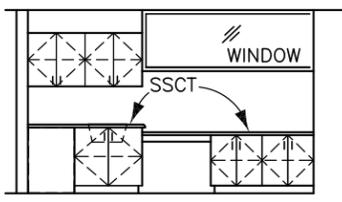
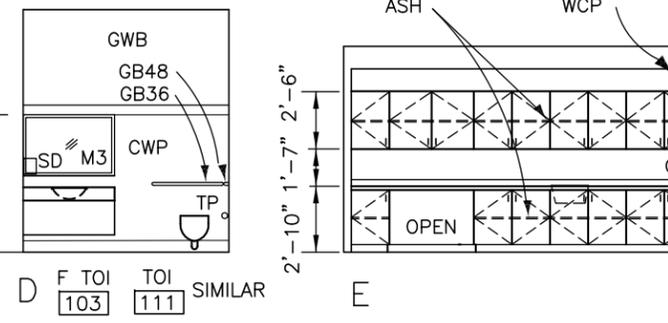
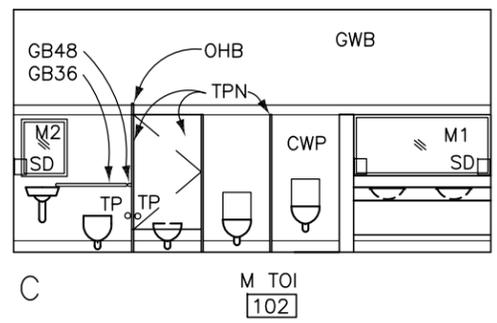
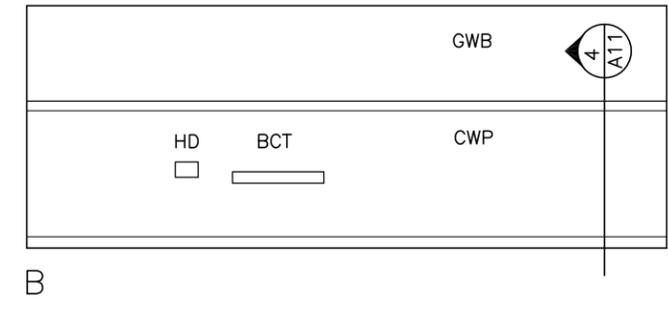
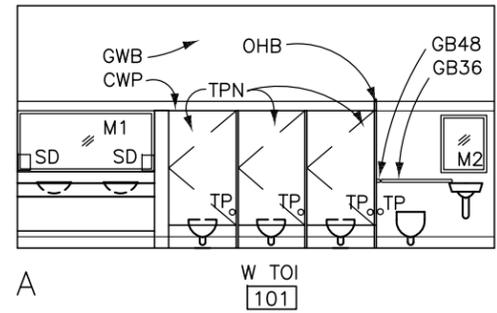
1 ENLARGED PLAN AT COMFORT STATION



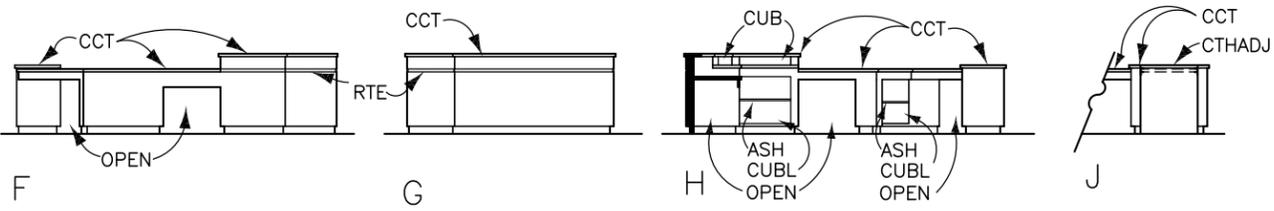
2 ENLARGED PLAN AT VISITOR CONTACT COUNTER DIMENSIONS



3 ENLARGED PLAN AT VISITOR CONTACT COUNTER ANNOTATIONS



4 INTERIOR ELEVATIONS



5 COUNTER ELEVATIONS

TOILET ACCESSORY LEGEND		
MARK	ACCESSORY	MOUNTING HEIGHT
SD	SOAP DISPENSER	40" TO OPERATOR
TP	TOILET PAPER HOLDER	19" TO $\phi$
HD	ELECTRIC HAND DRYER	40" TO OPERATOR
36GB	36" GRAB BAR	33-36"
48GB	36" GRAB BAR	33-36"
M1	72" X 32" MIRROR	BOTTOM AT BACKSPLASH
M2	24" X 30" MIRROR	BOTTOM AT BACKSPLASH
M3	48" X 30" MIRROR	BOTTOM AT 38"
BCT	BABY CHANGING TABLE	WORK SURFACE @ 34"

LEGEND	
UCF	UNDERCOUNTER REFRIGERATOR (NIC)
REF	REFRIGERATOR (NIC)
MS	MOP SINK (SEE PLUMBING)
SH	WIRE SHELVING
ICE	ICE MACHINE
FE	BRACKET MOUNTED FIRE EXTINGUISHER
AT	ALUMINUM THRESHOLD
GWB	GYPSUM WALLBOARD ON ICF CONCRETE WALL
CWP	CORAL PATTERN WALL PANEL
TPN	SOLID PHENOLIC TOILET PARTITION
OHB	OVERHEAD BRACE
OPEN	OPEN KNEE SPACE
ASH	ADJUSTABLE SHELVING
WCP	WOOD CLOSURE PANEL TO MATCH CABINET FINISH
GLS	1/2" REMOVABLE GLASS INSERT
CUB	CUBBIE HOLE- BASE AT COUNTER LEVEL
CUBL	LOW CUBBIE HOLE- BASE AT 6" AFF
CTH30	COUNTER TOP HEIGHT- NUMBER INDICATES INCHES AFF
CTHADJ	ADJUSTABLE COUNTER TOP HEIGHT- 34 TO 36 INCHES AFF
CD	CORD DROP- 2" HOLE
RTE	1/4" ROUT IN COUNTER FRONT
CCT	CORAL PATTERN COUNTER TOP
OAK	NATURAL FINISHED OAK
RDS	ROLL-DOWN COUNTER SHUTTER

- KEYNOTES**
- ① 6' HIGH PARTITION
  - ② STEEL COLUMN (SEE STRUCTURAL)
  - ③ FURR OUT AS NEEDED TO CONCEAL CARRIER APPARATUS MEZZANINE ABOVE. SEE STRUCTURAL
  - ④

**GENERAL NOTES**

1. PROVIDE PT WOOD MOUNTING PLATE BEHIND ALL WALL HUNG TOILET FIXTURES. CUT SO THAT PLATES ARE COMPLETELY CONCEALED
2. PROVIDE PT WOOD BLOCKING FOR ALL CABINET AND ACCESSORY MOUNTINGS



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN GADD JHK TECH. REVIEW:	SUB SHEET NO. <b>A6</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER ENLARGED PLANS</b>	DRAWING NO. <b>176 41,009</b> PMIS/PKG NO. 61948/110159 SHEET <b>35 of 69</b>
DATE: 02/2008			BIG CYPRESS NATIONAL PRESERVE	

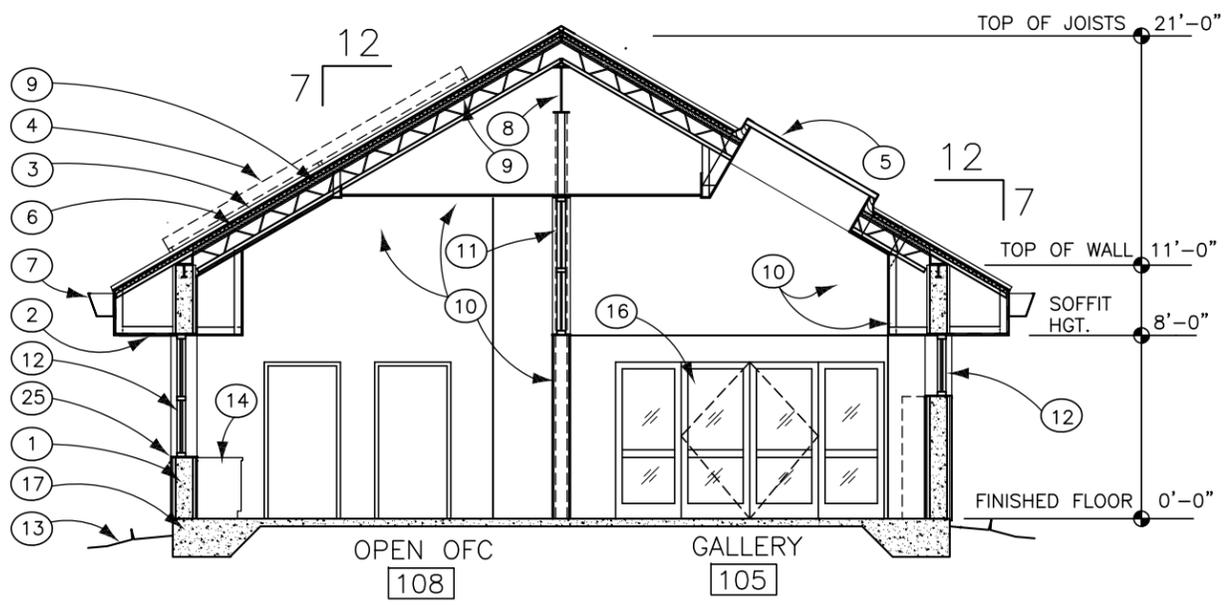
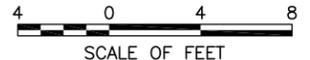
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**KEYNOTES**

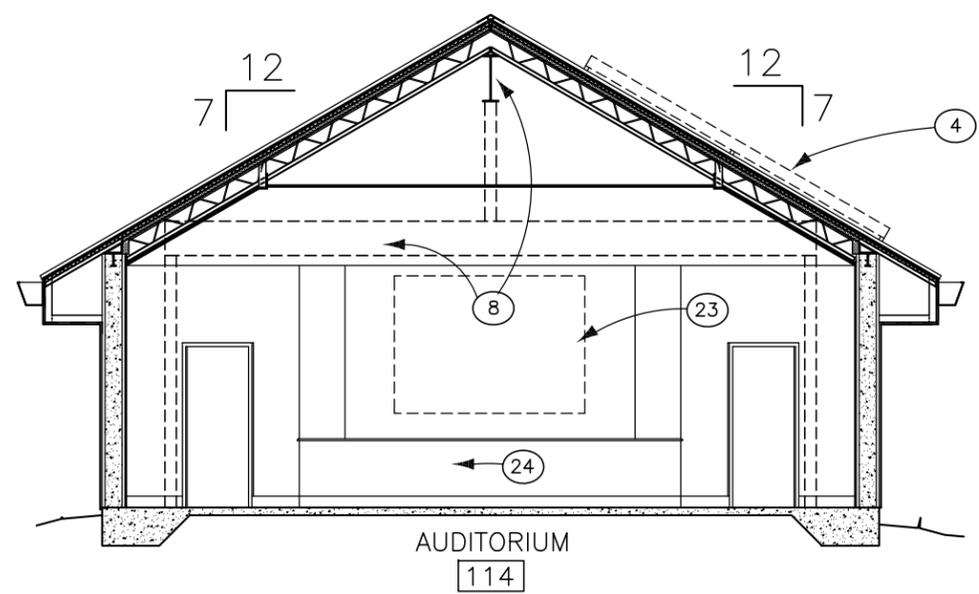
- ① EIFS FINISH ON ICF CONCRETE WALL
- ② PERFORATED METAL SOFFIT ON STRUCTURAL METAL DECK (SEE STRUCTURAL)
- ③ STANDING SEAM METAL ROOFING ON 3/4" RIGID BOARD
- ④ PHOTOVOLTAIC CELL ARRAY (FUTURE)
- ⑤ TRANSLUCENT, INSULATED SKYLIGHT
- ⑥ METAL DECK ON STEEL JOISTS
- ⑦ GUTTER
- ⑧ STEEL BEAM (SEE STRUCTURAL)
- ⑨ SPRAY-ON FOAM INSULATION
- ⑩ GYP BD ON LIGHT GAUGE METAL FRAMING
- ⑪ INTERIOR WINDOW
- ⑫ ALUMINUM WINDOW WITH HIGH PERFORMANCE COATING
- ⑬ FINISHED GRADE
- ⑭ CABINETWORK
- ⑮ TOILET PARTITION
- ⑯ ALUMINUM STOREFRONT ENTRANCE
- ⑰ MONOLITHIC CONCRETE FOUNDATION AND SLAB
- ⑱ DISPLAY UNIT BY NPS (NIC)
- ⑲ CONC. WALK (SEE CIVIL)
- ⑳ CONSTRUCTION JOINT
- ㉑ CORAL PATTERN WALL PANEL
- ㉒ AIR CURTAIN FAN
- ㉓ PROJECTION SCREEN (NIC)
- ㉔ SPEAKER CHASE
- ㉕ WINDOW SILL FLASHING
- ㉖ MEZZANINE FLOOR (SEE STRUCTURAL)

**GENERAL NOTES**

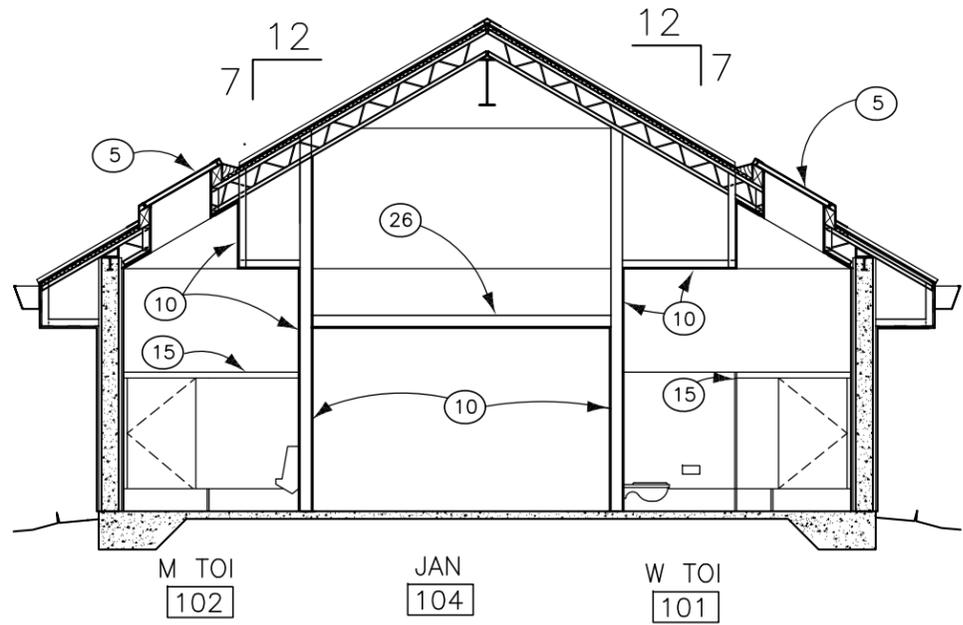
- 1. COORDINATE ALL VERTICAL DIMENSIONS WITH STRUCTURAL



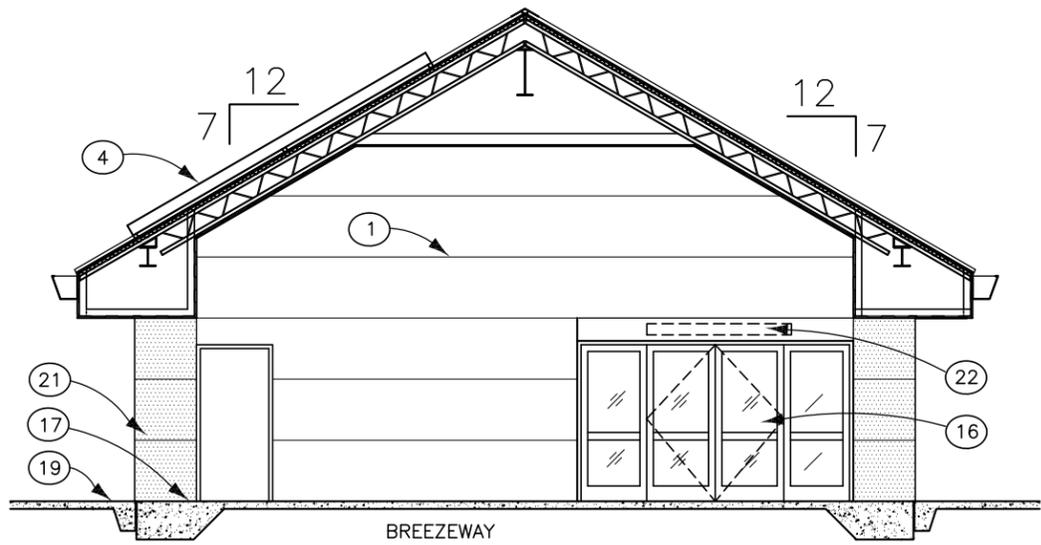
1 SECTION AT VISITORS CENTER  
A7



2 SECTION AT MULTIPURPOSE CENTER  
A7  
BID OPTION 2



3 SECTION AT COMFORT STATION  
A7



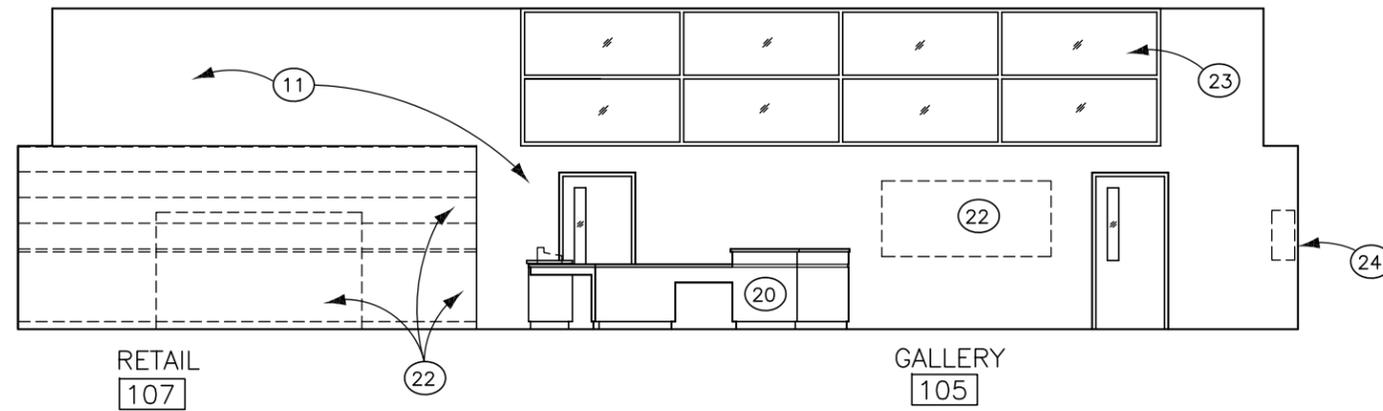
4 SECTION AT BREEZEWAY  
A7

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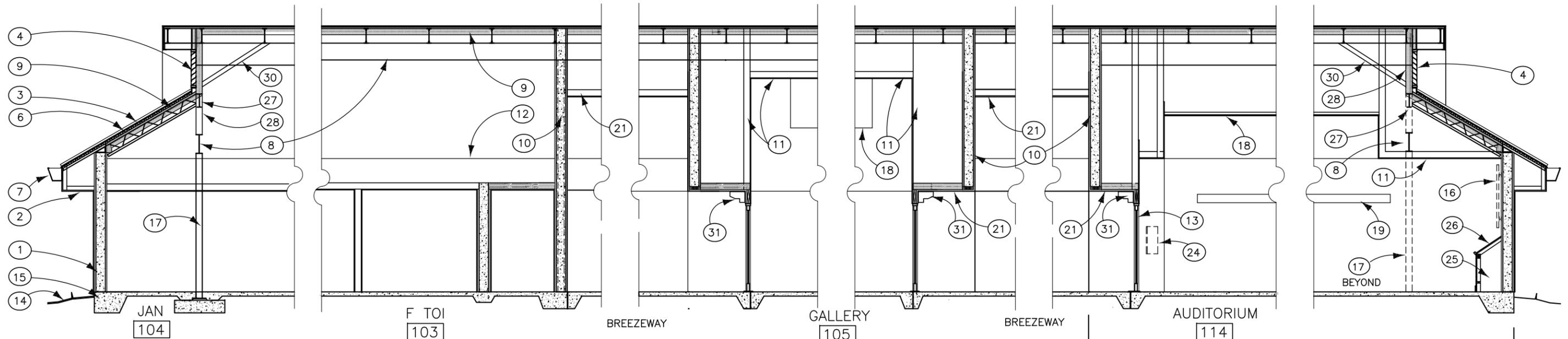
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN	SUB SHEET NO.  <b>A7</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER SECTIONS</b>	DRAWING NO. <b>176</b> <b>41,009</b>
	TECH. REVIEW: JHK			PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET
				<b>36 of 69</b>
			BIG CYPRESS NATIONAL PRESERVE	

**KEYNOTES**

- ① EIFS FINISH ON ICF CONCRETE WALL
- ② PERFORATED METAL SOFFIT
- ③ STANDING SEAM METAL ROOFING ON 5/8" RIGID BOARD
- ④ WATERPROOF LOUVER
- ⑤ TRANSLUCENT, INSULATED SKYLIGHT
- ⑥ METAL DECK ON STEEL JOISTS (SEE STRUCTURAL)
- ⑦ GUTTER
- ⑧ STEEL BEAM (SEE STRUCTURAL)
- ⑨ SPRAY-ON FOAM INSULATION
- ⑩ ICF CONCRETE WALL TO DECK
- ⑪ GYP BD ON LIGHT GAUGE METAL FRAMING
- ⑫ VERT. WALL/SLOPED CEILING LINE
- ⑬ ALUMINUM STOREFRONT ENTRANCE
- ⑭ FINISHED GRADE
- ⑮ MONOLITHIC CONCRETE FOUNDATION AND SLAB
- ⑯ VIDEO SCREEN (NIC)
- ⑰ STEEL COLUMN (SEE STRUCTURAL)
- ⑱ ACOUSTICAL LAY-IN CEILING
- ⑲ DISPLAY HANGING RAIL (N & S WALLS) SEE DETAIL 5 SHEET A11
- ⑳ VISITOR'S CONTACT COUNTER SEE SHEETS A6 AND A15
- ㉑ EIFS ON LIGHT GAUGE METAL FRAMING
- ㉒ RETAIL/DISPLAY FIXTURES- BY OTHERS, NIC
- ㉓ INTERIOR WINDOWS
- ㉔ FIRE EXTINGUISHER IN CABINET
- ㉕ SPEAKER CHASE
- ㉖ SOLID SURFACE COUNTERTOP
- ㉗ STEEL BEAM (SEE STRUCTURAL)
- ㉘ 6" STRUCTURAL METAL STUDS
- ㉙ ALUMINUM WINDOW BEYOND
- ㉚ 6" STRUCTURAL METAL STUDS
- ㉛ ALUMINUM WINDOW BEYOND
- ㉜ BRACE TO STRUCTURAL (SEE STRUCTURAL)
- ㉝ AIR CURTAIN FAN (SEE MECHANICAL)
- ㉞ STEEL JOIST GIRDER (SEE STRUCTURAL)



**2** INTERIOR ELEVATION AT VISITORS CENTER  
A8



**1** LONGITUDINAL SECTION THRU BUILDING  
A8



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	TECH. REVIEW: JHK			PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET <b>37</b> of <b>69</b>
	BIG CYPRESS NATIONAL PRESERVE			

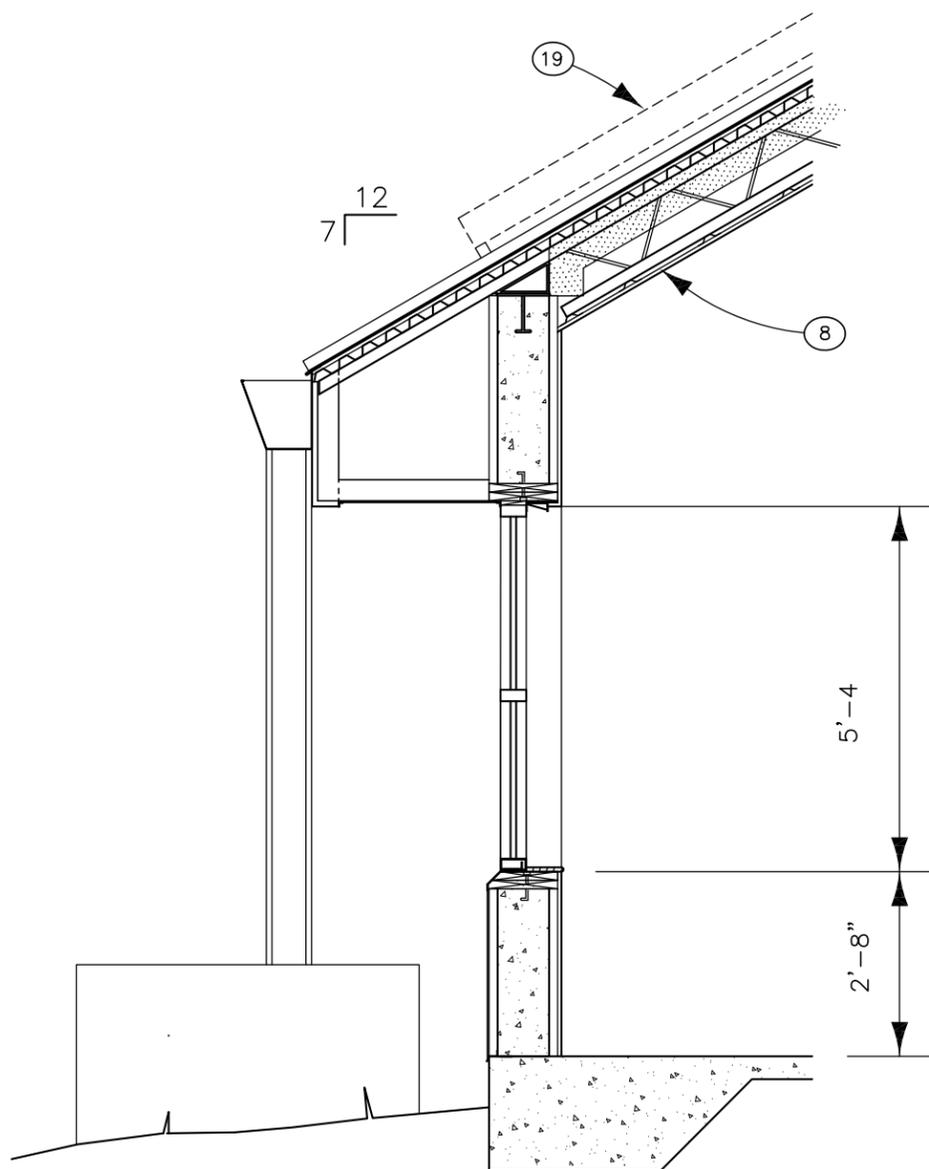
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KEYNOTES

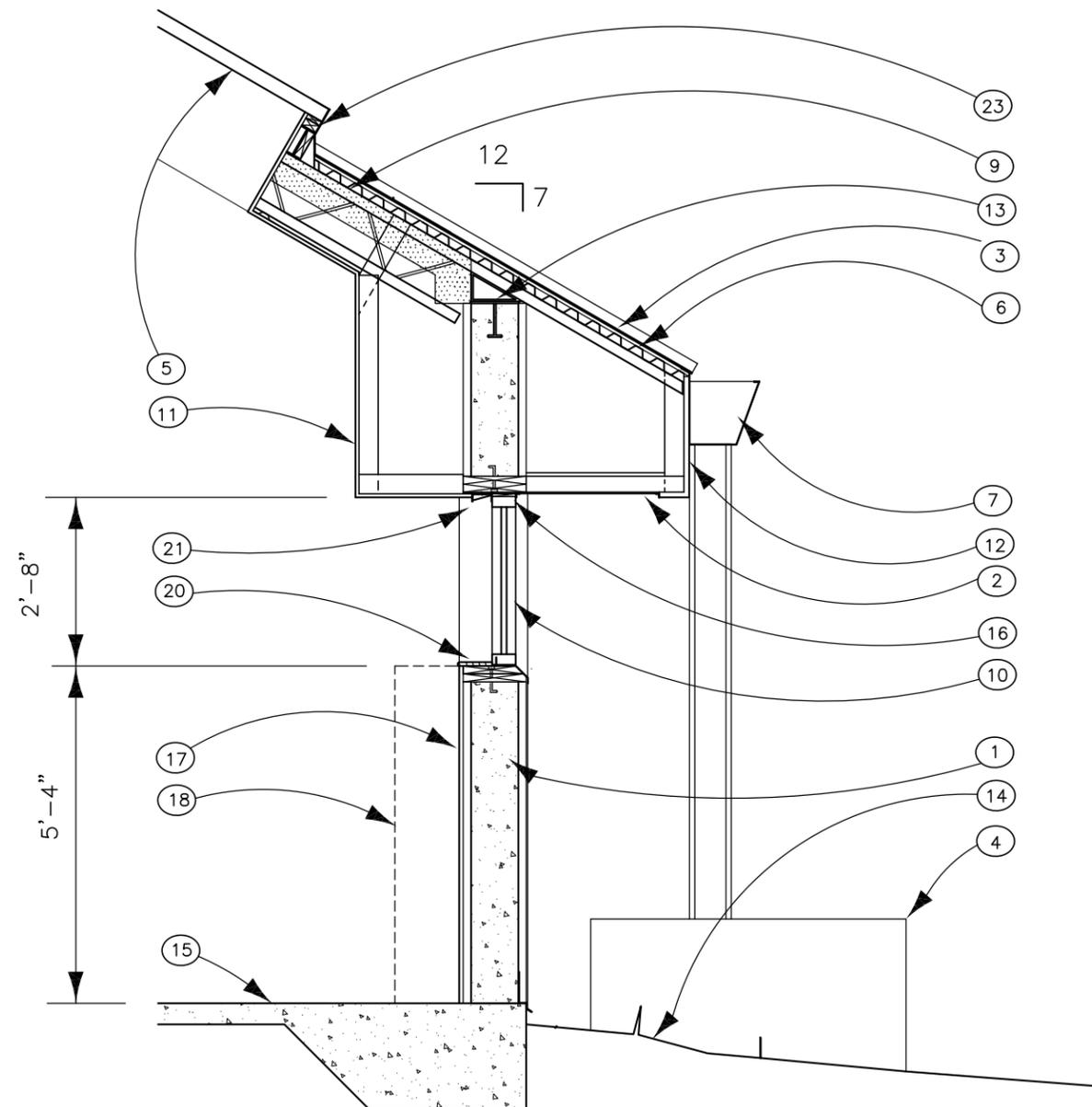
- ① EIFS FINISH ON ICF CONCRETE WALL
- ② PERFORATED METAL SOFFIT ON VENTED STRUCTURAL METAL DECK (SEE STRUCTURAL)
- ③ STANDING SEAM METAL ROOFING OVER VAPOR BARRIER ON 1/2" RIGID BOARD
- ④ WATER DISSIPATION STRUCTURE WITH DOWNSPOUT AND STRUT (BEYOND)
- ⑤ TRANSLUCENT, INSULATED SKYLIGHT
- ⑥ METAL DECK ON STEEL JOISTS
- ⑦ GUTTER
- ⑧ 5/8" GYPSUM WALLBOARD ON 3/4" METAL FURRING CHANNELS
- ⑨ SPRAY-ON FOAM INSULATION
- ⑩ ALUMINUM WINDOW W IMPACT RESISTANT GLASS
- ⑪ GYP BD ON LIGHT GAUGE METAL FRAMING
- ⑫ METAL FASCIA ON 1/2" RIGID BOARD
- ⑬ EMBEDDED JOIST SEAT (SEE STRUCTURAL)
- ⑭ FINISHED GRADE
- ⑮ MONOLITHIC CONCRETE FOUNDATION AND SLAB
- ⑯ PRESSURE TREATED WOOD BLOCKING
- ⑰ 5/8" GYPSUM WALLBOARD ON ICF CONCRETE
- ⑱ RETAIL/DISPLAY FIXTURES- BY OTHERS, NIC
- ⑲ PHOTOVOLTAIC ARRAY
- ⑳ FINISHED WOOD WINDOW STOOL
- ㉑ WINDOW BLINDS
- ㉒ FLASHING
- ㉓ SKYLIGHT CURB (SEE STRUCTURAL)

GENERAL NOTES

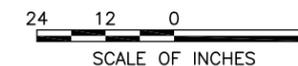
- 1. LIKE ITEMS ARE OFTEN CALLED OUT ONCE, BUT ARE TYPICAL



② WALL SECTION  
A9



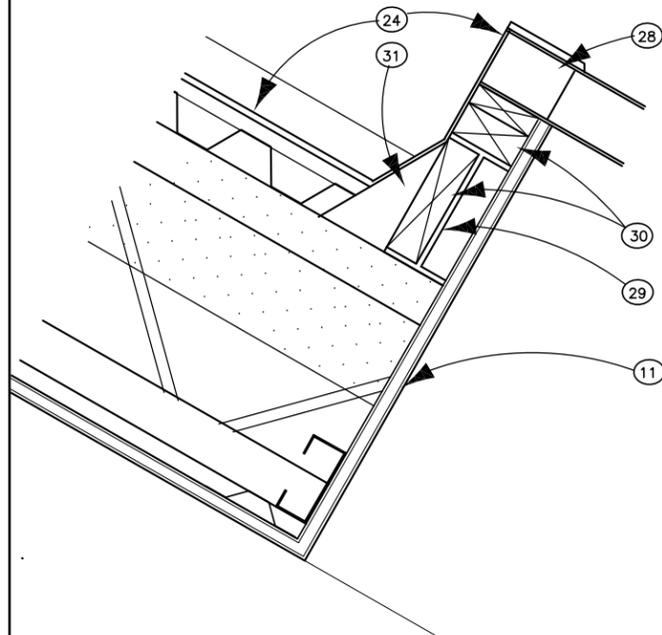
① WALL SECTION  
A9



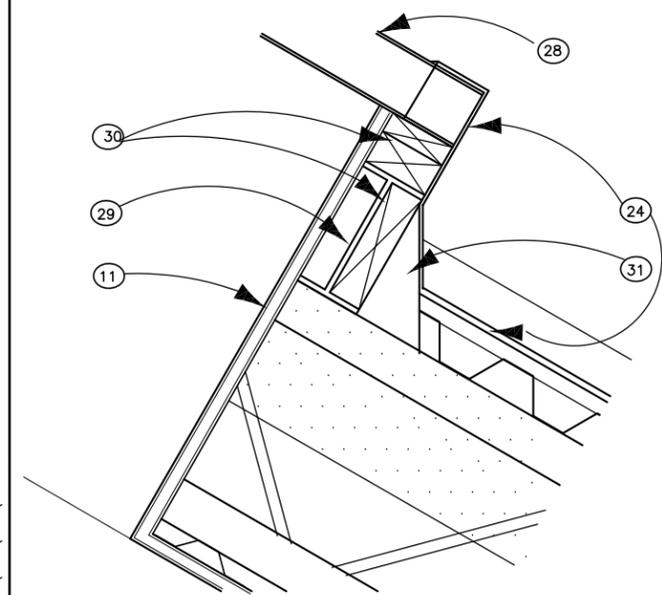
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	TECH. REVIEW: JHK			PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET <b>38</b> of <b>69</b>
				BIG CYPRESS NATIONAL PRESERVE

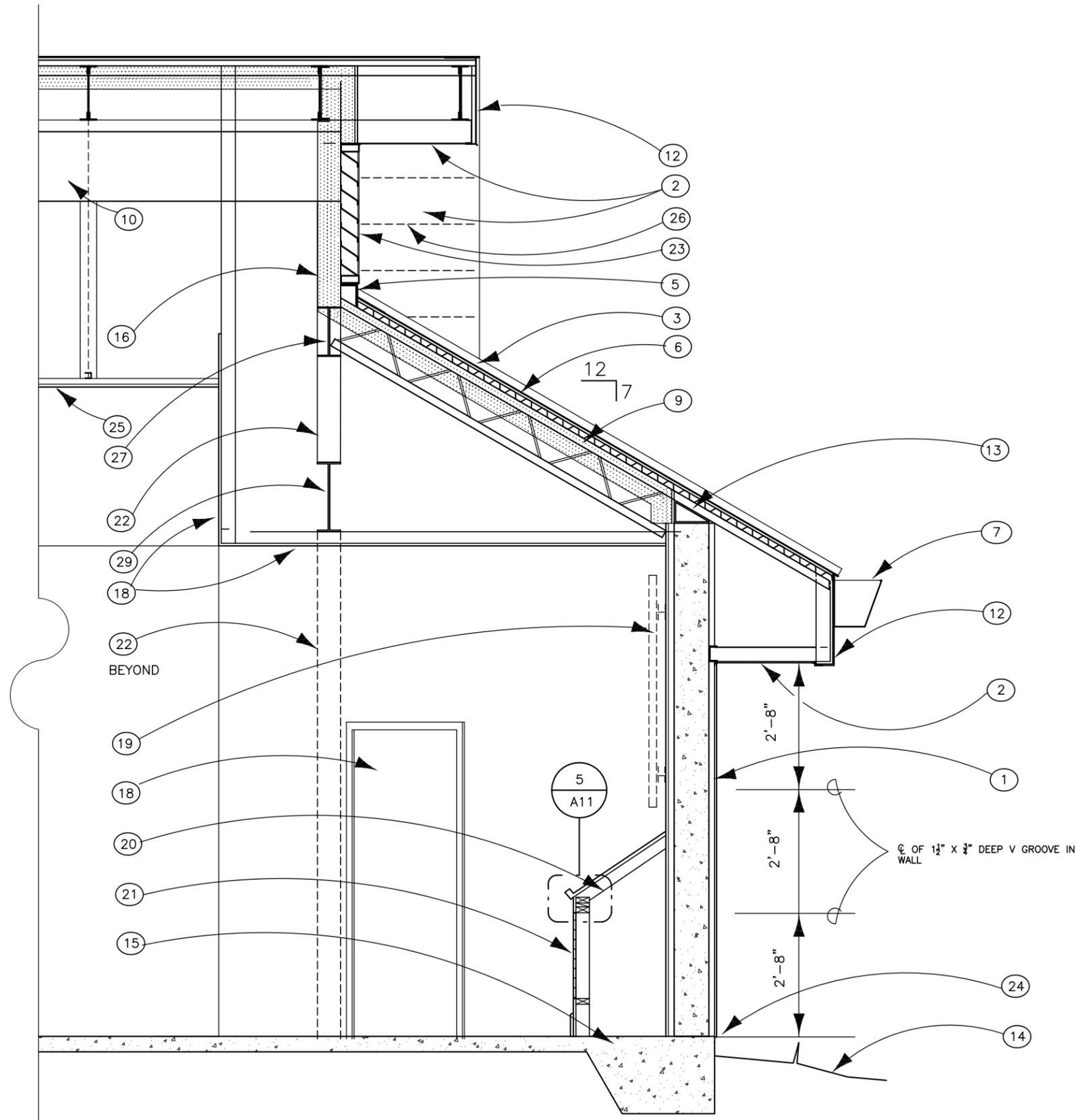
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2 SECTION AT SKYLIGHT  
A10



2 SECTION AT SKYLIGHT  
A10



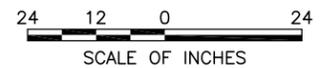
2 WALL SECTION  
A10

**KEYNOTES**

- 1 EIFS FINISH ON ICF CONCRETE WALL
- 2 PERFORATED METAL SOFFIT ON VENTED STRUCTURAL METAL DECK
- 3 STANDING SEAM METAL ROOFING ON 5/8" RIGID BOARD
- 4 WATER DISSIPATION STRUCTURE WITH DOWNSPOUT AND STRUT (BEYOND)
- 5 STEEL BENT PLATE (SEE STRUCTURAL)
- 6 METAL DECK ON STEEL JOISTS
- 7 GUTTER
- 8 5/8" GYPSUM WALLBOARD ON 7/8" METAL FURRING CHANNELS
- 9 SPRAY-ON FOAM INSULATION
- 10 STEEL BEAM (SEE STRUCTURAL)
- 11 GYP BD ON LIGHT GAUGE METAL FRAMING
- 12 METAL FASCIA ON 5/8" RIGID BOARD
- 13 EMBEDDED JOIST SEAT (SEE STRUCTURAL)
- 14 FINISHED GRADE
- 15 MONOLITHIC CONCRETE FOUNDATION AND SLAB
- 16 6" GALVANIZED, STRUCTURAL METAL STUDS
- 17 5/8" GYPSUM WALLBOARD ON ICF CONCRETE
- 18 DOOR BEYOND
- 19 VIDEO SCREEN (NIC)
- 20 SOLID SURFACE COUNTERTOP WITH WOOD TRIM STOP LIP
- 21 SPEAKER CHASE. COORDINATE WITH GOVERNMENT FURNISHED EQUIPMENT
- 22 STEEL COLUMN (SEE STRUCTURAL)
- 23 WATERPROOF ALUMINUM LOUVER. BLANK OUT ALL OPEN AREA EXCEPT FOR AREA USED BY MECHANICAL. ATTACH 18 GA SHEET METAL (PER-FINISHED W HIGH PERFORMANCE COATING -BLACK) TO BACK SIDE OF LOUVER W NON-CORROSIVE SCREWS AT 6" O.C. SEE DETAIL 1/A14
- 24 FLASHING
- 25 SUSPENDED ACOUSTICAL CEILING
- 26 2 1/2" STEEL ANGLES @ 1'-6" OC (SEE STRUCTURAL)
- 27 STEEL BEAM (SEE STRUCTURAL)
- 28 SKYLIGHT
- 29 STEEL BEAM (SEE STRUCTURAL)
- 30 PT WOOD BLOCKING
- 31 WOOD CANT

**GENERAL NOTES**

- 1. LIKE ITEMS ARE OFTEN CALLED OUT ONCE, BUT ARE TYPICAL



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	TECH. REVIEW: JHK			PMIS/PKG NO. 61948/110159
	DATE: 02/2008		BIG CYPRESS NATIONAL PRESERVE	SHEET <b>39</b> of <b>69</b>

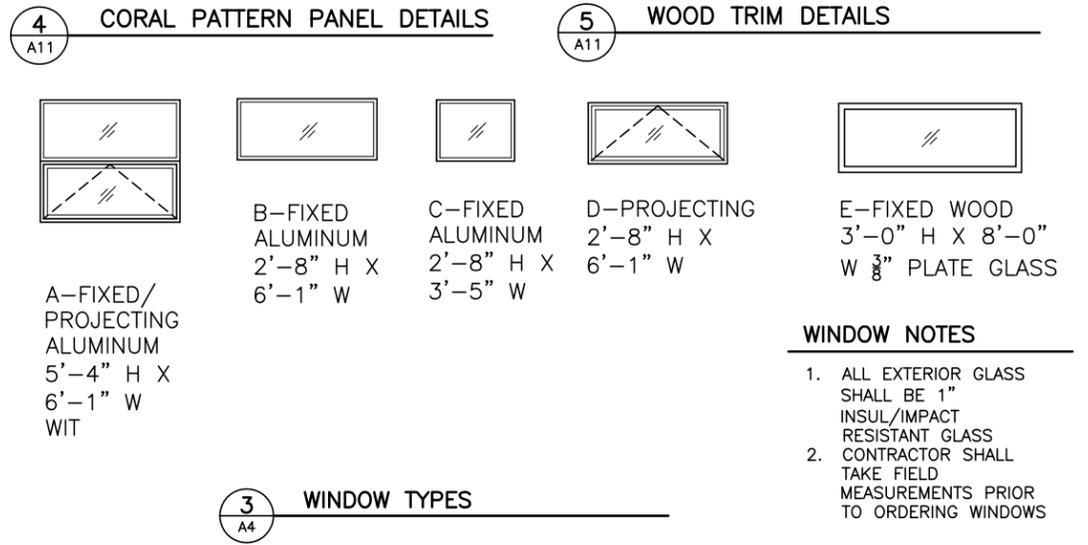
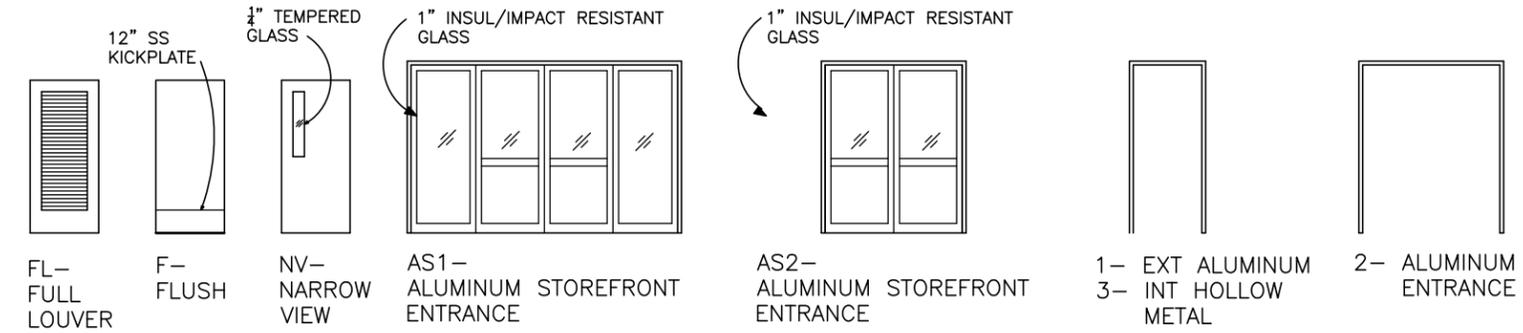
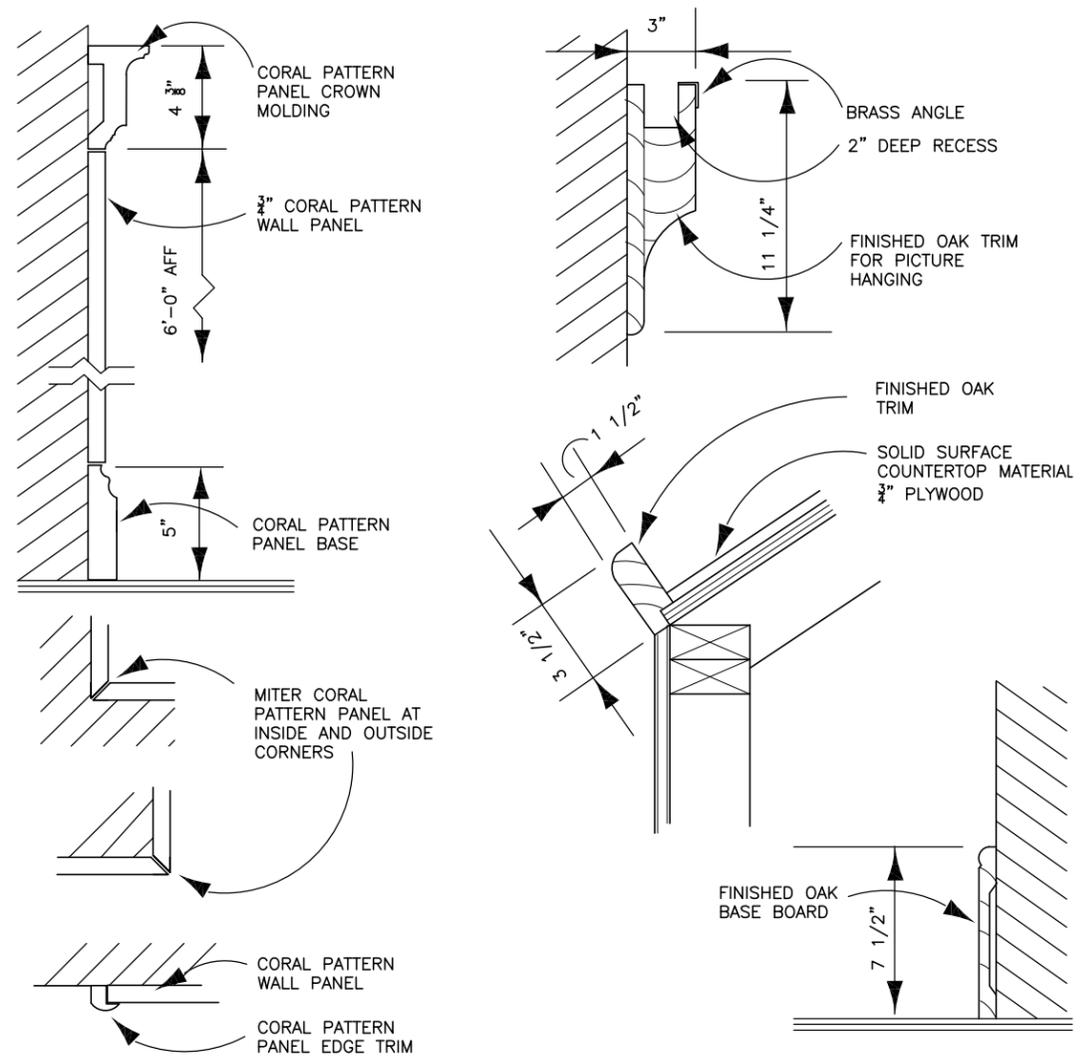
**DOOR SCHEDULE**

DOOR NUMBER	SIZE (W x H)	DRAWING NUMBER	DOOR			FRAME			HARDWARE SET	DETAILS			REMARKS
			TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH		HEAD	JAMB	SILL	
1	3'-0" X 7'-0"	A1	FL	A	E	1	A	E	1	7/A13	7/A13	5/A13	
2	3'-0" X 7'-0"	A1	F	A	E	1	A	E	1	7/A13	7/A13	5/A13	
3	3'-0" X 7'-0"	A1	FL	A	E	1	A	E	2	4/A13	4/A13	5/A13	
4	3'-0" X 7'-0"	A1	FL	A	E	1	A	E	1	7/A13	7/A13	5/A13	
5	PR 3'-0" X 7'-0"	A1	SL	A/H	E	2	A	E	3	4/A12	5/A12	6/A12	
6	PR 3'-0" X 7'-0"	A1	SL	A/H	E	2	A	E	3	4/A12	5/A12	6/A12	
7	3'-0" X 7'-0"	A1	F	A	E	1	A	E	2	4/A13	4/A13	5/A13	
8	3'-0" X 6'-8"	A1	NV	F	F	3	E	A	4	6/A13	6/A13		
9	3'-0" X 6'-8"	A1	NV	F	F	3	E	A	4	6/A13	6/A13		
10	3'-0" X 6'-8"	A1	F	F	F	3	E	A	5	6/A13	6/A13		
11	3'-0" X 6'-8"	A1	F	F	F	3	E	A	6	6/A13	6/A13		
12	NOT USED												
13	PR 3'-0" X 7'-0"	A1	SL	A/H	E	2	A	E	3	4/A12	5/A12	6/A12	
14	PR 3'-0" X 7'-0"	A1	SL	A/H	E	2	A	E	3	4/A12	5/A12	6/A12	
15	3'-0" X 6'-8"	A1	F	F	F	3	E	A	6	6/A13	6/A13		
16	3'-0" X 6'-8"	A1	F	F	F	3	E	A	6	6/A13	6/A13		
17	3'-0" X 7'-0"	A1	A	A	E	1	A	E	7	4/A13	4/A13	5/A13	

**MATERIAL AND FINISH LEGEND**

MATERIAL		FINISH	
A	ALUMINUM	A	PAINT
B	STEEL	B	ANODIZED
C	FIBERGLASS REINFORCED POLYMER PANEL	C	FACTORY APPLIED GEL COATING
D	STAINLESS STEEL	D	#4 SATIN FINISH
E	HOLLOW METAL	E	FLUOROPOLYMER
F	WOOD	F	FIELD STAINED AND VARNISHED
G	VINYL	G	HIGH PRESSURE PLASTIC LAMINATE
H	GLASS STOREFRONT	H	FACTORY APPLIED PAINT
		J	FACTORY APPLIED STAIN AND VARNISH
		K	FACTORY APPLIED POWDER COATING

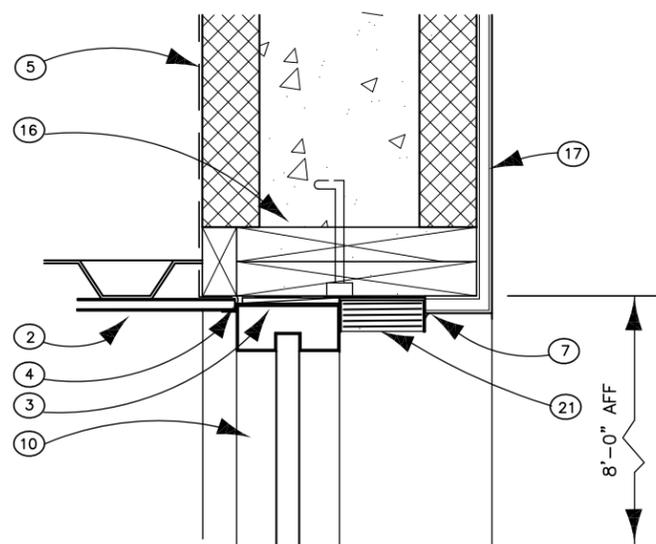
REMARKS:  
1. XXXX



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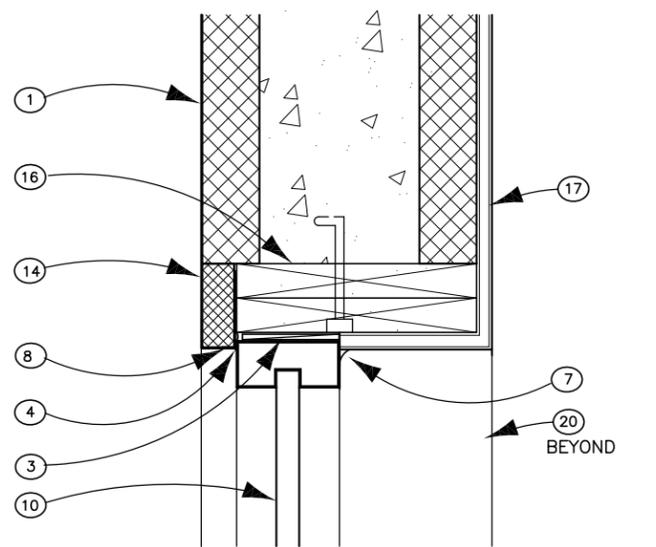
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN GADD JHK TECH. REVIEW:	SUB SHEET NO. <b>A11</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER DOOR SCHEDULE</b>	DRAWING NO. <b>176 41,009</b>
DATE: 02/2008			BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159
				SHEET <b>40 of 69</b>

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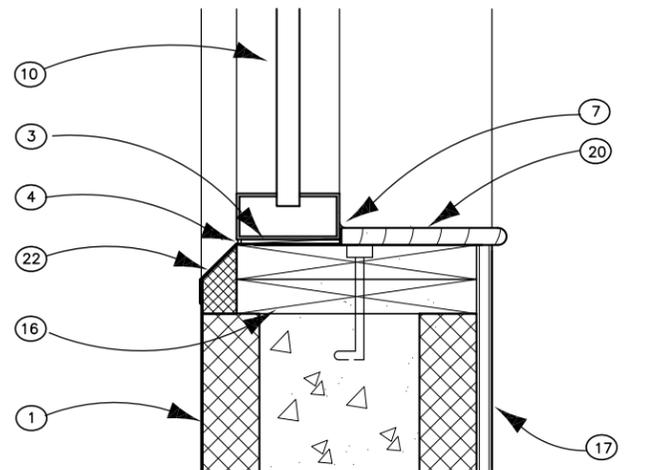
**1** EXTERIOR WINDOW HEAD

A12



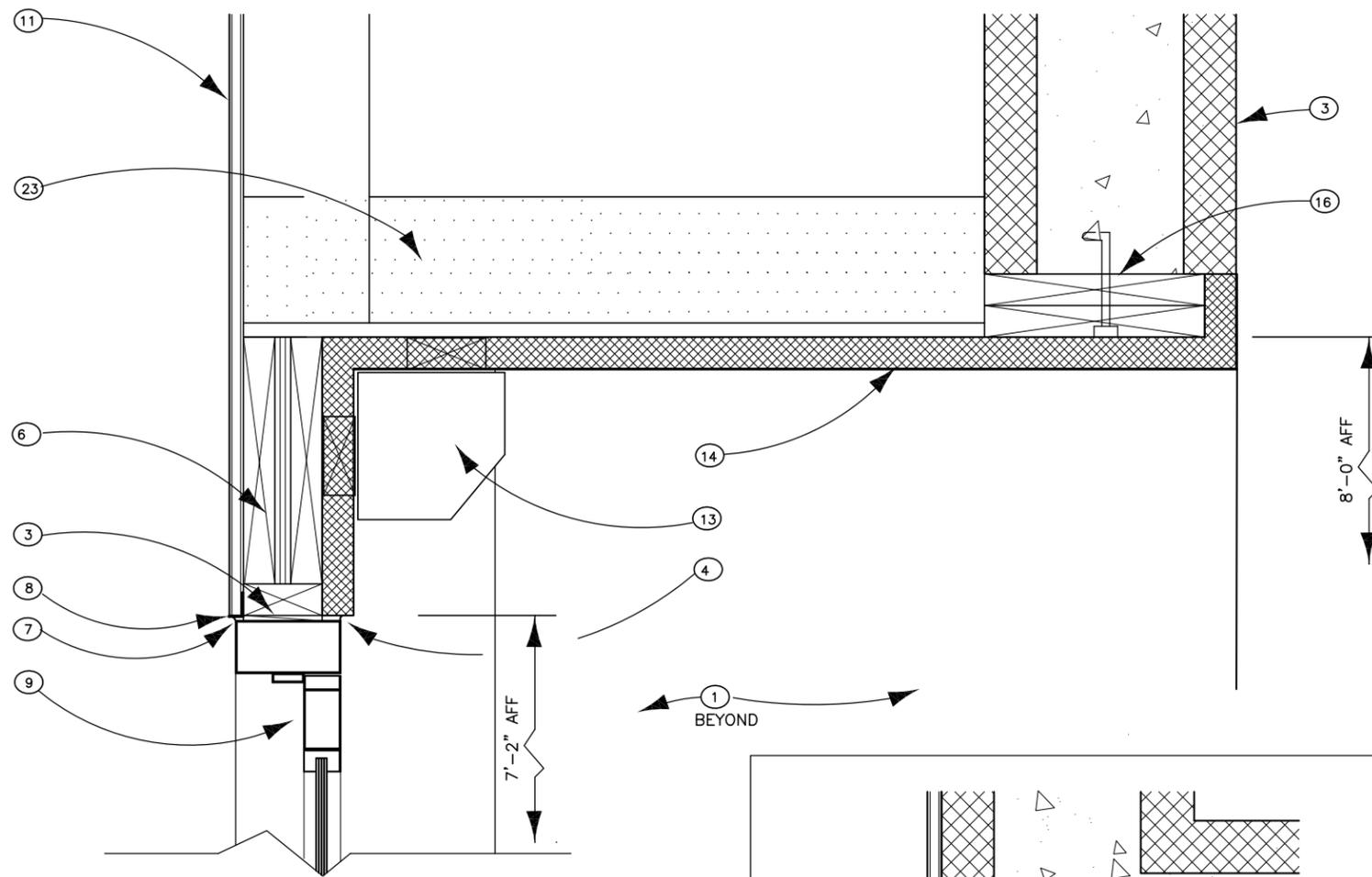
**2** EXTERIOR WINDOW JAMB

A12



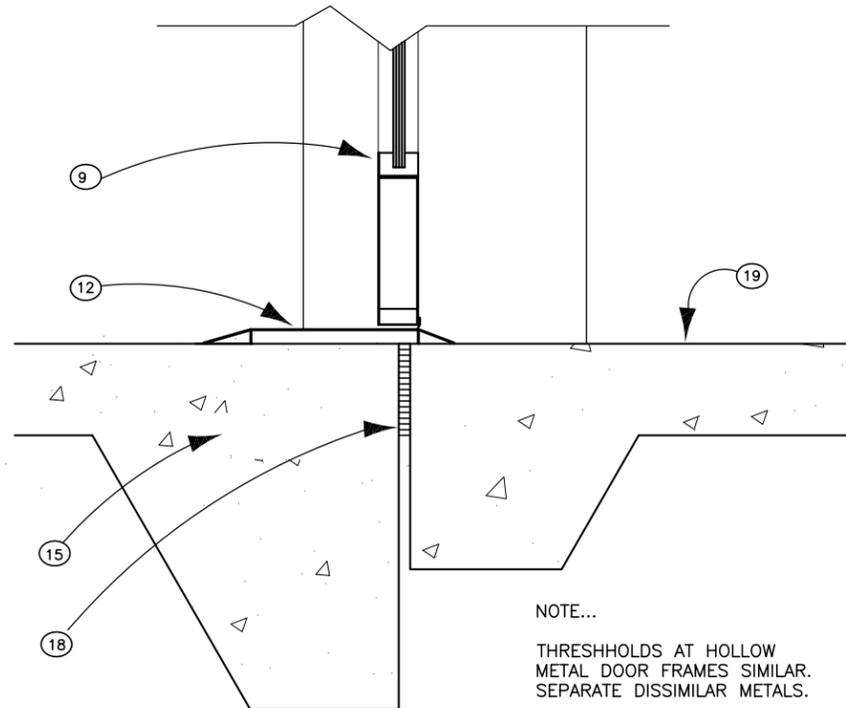
**3** EXTERIOR WINDOW SILL

A12



**4** ALUMINUM ENTRANCE HEAD

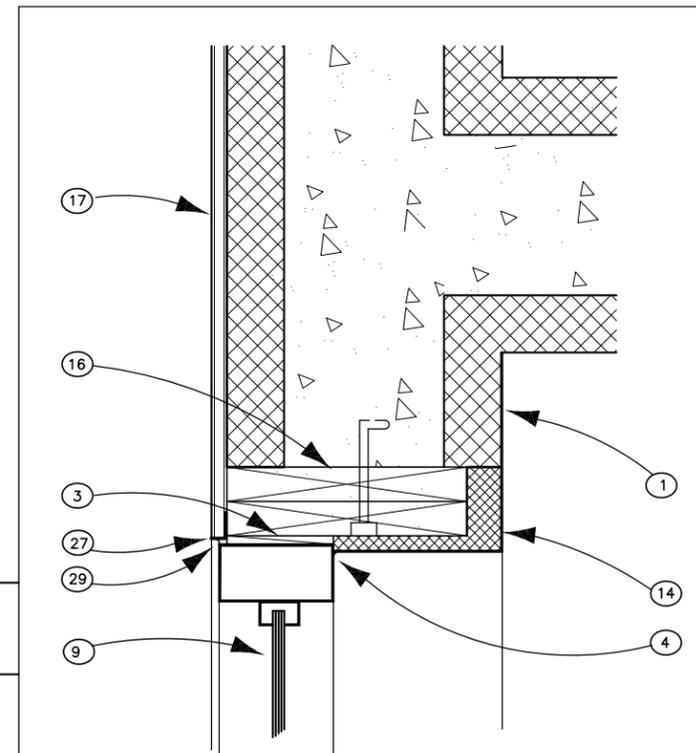
A12



**5** ALUMINUM ENTRANCE SILL

A12

NOTE...  
THRESHOLDS AT HOLLOW METAL DOOR FRAMES SIMILAR. SEPARATE DISSIMILAR METALS.

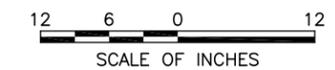


**6** ALUMINUM ENTRANCE JAMB

A12

**LEGEND**

- ① EIFS FINISH ON ICF CONCRETE WALL
  - ② PERFORATED METAL SOFFIT ON VENTED METAL DECK
  - ③ PRESSURE TREATED WOOD SHIM
  - ④ SEALANT
  - ⑤ VAPOR BARRIER ON ICF CONC. EXTEND VB TO COVER UNDERSIDE OF BLOCKING
  - ⑥ PT WOOD HEADER
  - ⑦ CAULK
  - ⑧ J MOLD
  - ⑨ ALUMINUM ENTRANCE W IMPACT RESISTANT GLASS. VERIFY ROUGH OPENING DIMENSION W MFR.
  - ⑩ ALUMINUM WINDOW W IMPACT RESISTANT GLASS. VERIFY DOUGH OPENING DIMENSIONS W MFR.
  - ⑪ GYP BD ON LIGHT GAUGE METAL FRAMING
  - ⑫ ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC
  - ⑬ AIR CURTAIN FAN (SEE MECHANICAL). PROVIDE BLOCKING AS PER MFR REQMTS.
  - ⑭ EIFS ON 5/8" RIGID BOARD ON GALVANIZED METAL STUDS @ 1'-6" OC (OR PT WD BLOCKING WHERE SHOWN)
  - ⑮ MONOLITHIC CONCRETE FOUNDATION AND SLAB. SEE STRUCTURAL
  - ⑯ PRESSURE TREATED WOOD BLOCKING
  - ⑰ 5/8" GYPSUM WALLBOARD ON ICF CONCRETE
  - ⑱ 1/2" EXPANSION JOINT MATERIAL
  - ⑲ BREEZEWAY SLAB. BROOM FINISHED. SEE STRUCTURAL
  - ⑳ FINISHED WOOD WINDOW STOOL
- WINDOW BLINDS. PROVIDE TEMPORARY BLOCK-OUT TO RECESS HOUSING.
- FLASHING. EXTEND TO UNDERSIDE OF WINDOW FRAME
- SPRAY-ON FOAM INSULATION



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DATE: 02/2008		

TITLE OF SHEET  
**TAMIAMI TRAIL WELCOME CENTER  
DOOR/WINDOW DETAILS**

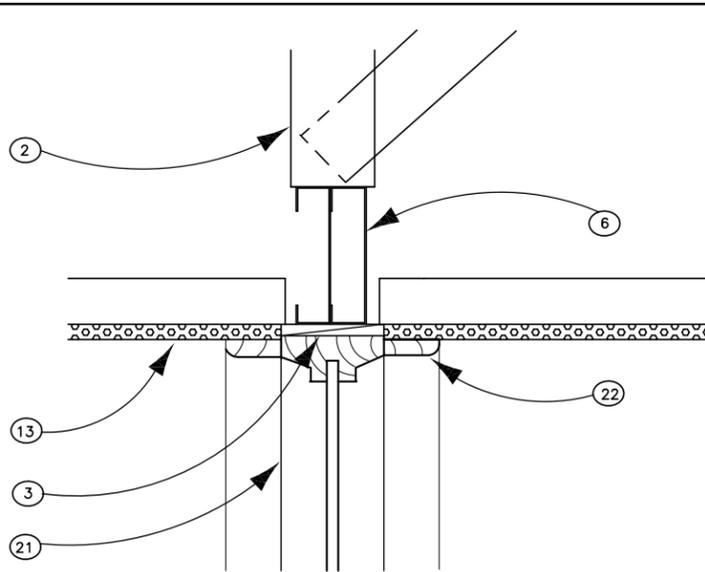
BIG CYPRESS NATIONAL PRESERVE

DRAWING NO.  
**176  
41,009**

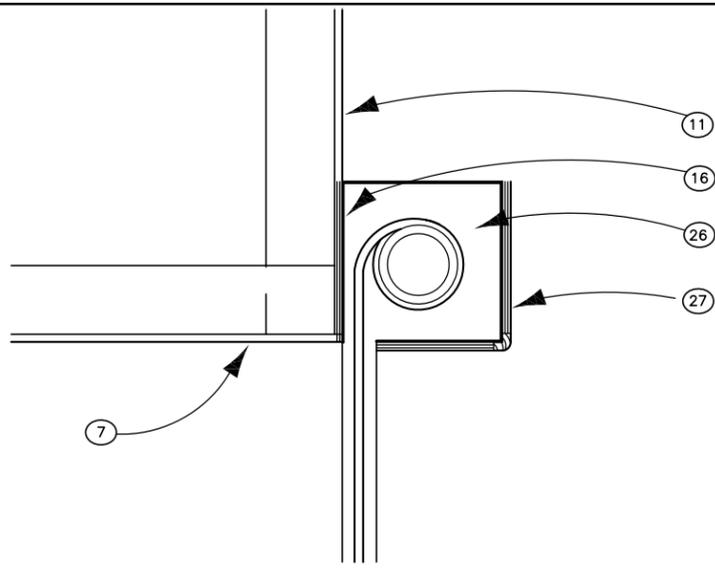
PMIS/PKG NO.  
61948/110159

SHEET  
**41 of 69**

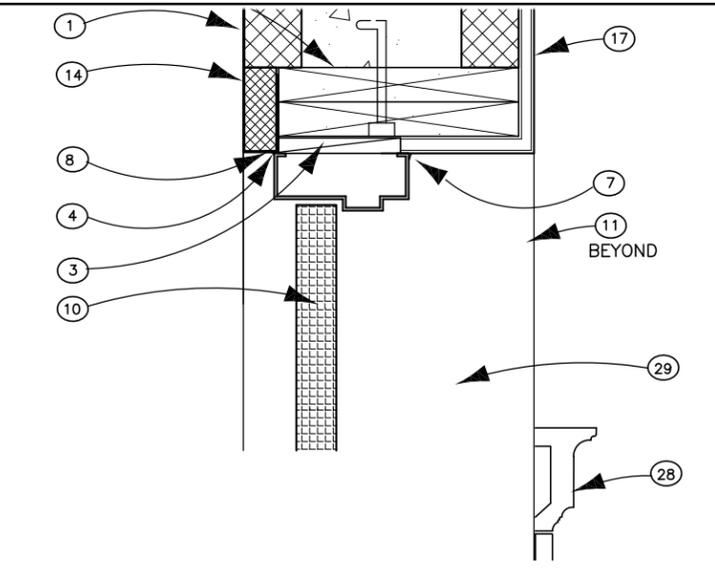
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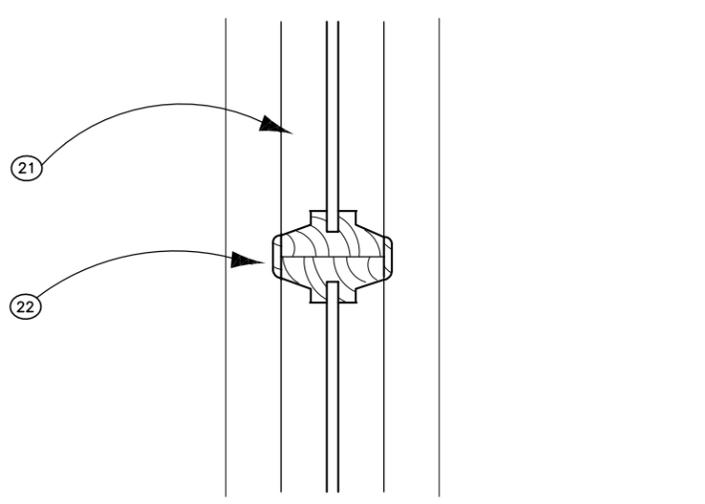
**1** INTERIOR WINDOW HEAD  
A13



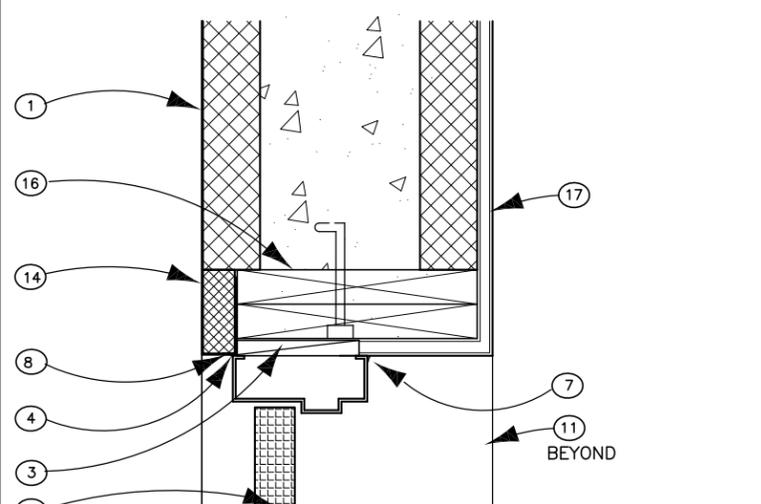
**2** COUNTER SHUTTER HEAD  
A13



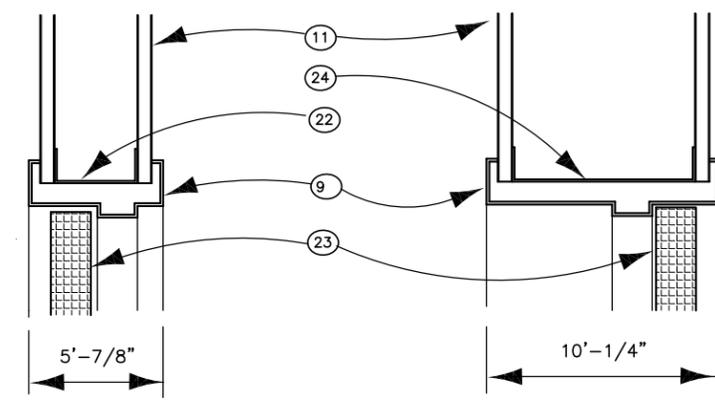
**7** ALUM HEAD AT CORAL PANELS  
A13



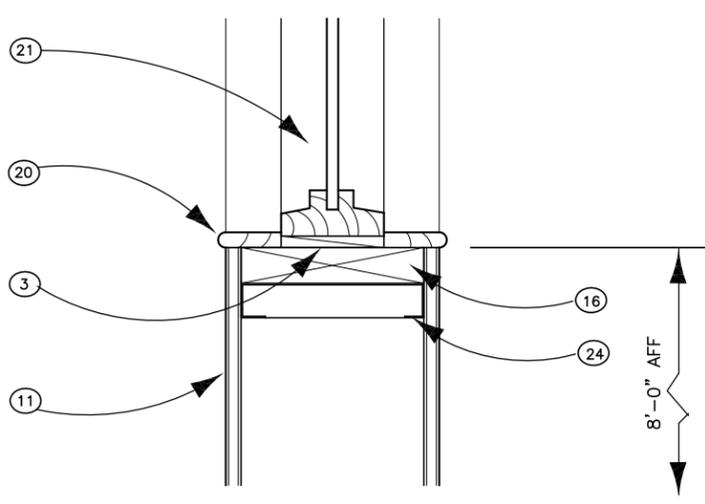
**2** INTERIOR WINDOW MULL  
A13



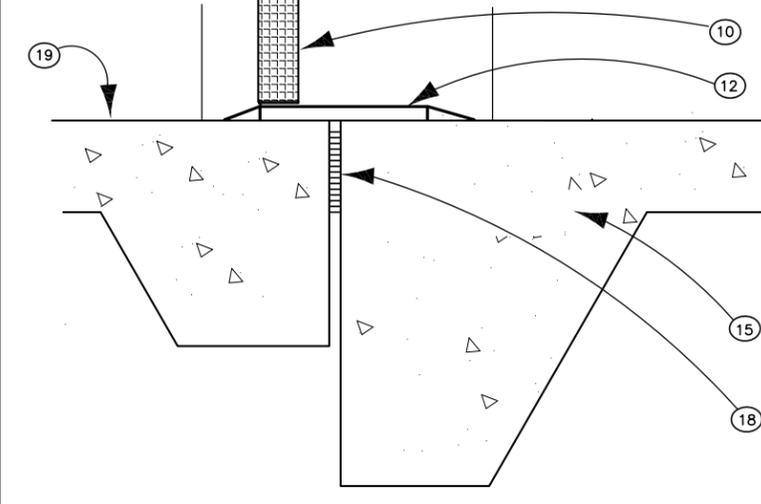
**4** ALUMINUM DOOR HEAD  
A13  
JAMB DETAIL SIMILAR



**6** HOLLOW METAL FRAME HEAD  
A13  
JAMB DETAIL SIMILAR



**3** INTERIOR WINDOW SILL  
A13



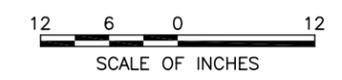
**5** ALUMINUM DOOR SILL  
A13

**LEGEND**

- ① EIFS FINISH ON ICF CONCRETE WALL
- ② BRACE TO STRUCTURE ABOVE
- ③ PRESSURE TREATED WOOD SHIM
- ④ SEALANT
- ⑤ WOOD BLOCKING
- ⑥ METAL STUD HEAHER
- ⑦ CAULK
- ⑧ J MOLD
- ⑨ HOLLOW METAL FRAME
- ⑩ ALUMINUM DOOR AND FRAME
- ⑪ 5/8" GYP BD ON LIGHT GAUGE METAL FRAMING
- ⑫ ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC
- ⑬ ACOUSTICAL LAY-IN CEILING
- ⑭ EIFS ON 5/8" RIGID BOARD ON GALVANIZED METAL STUDS @ 1'-6" OC (OR ON PT WD BLOCKING WHERE SHOWN)
- ⑮ MONOLITHIC CONCRETE FOUNDATION AND SLAB. SEE STRUCTURAL
- ⑯ PRESSURE TREATED WOOD BLOCKING
- ⑰ 5/8" GYPSUM WALLBOARD ON ICF CONCRETE
- ⑱ 3/4" EXPANSION JOINT MATERIAL
- ⑲ BREEZEWAY SLAB. BROOM FINISHED. SEE STRUCTURAL
- ⑳ FINISHED WOOD WINDOW STOOL
- ㉑ INTERIOR WOOD WINDOW
- ㉒ FINISHED WOOD TRIM
- ㉓ WOOD DOOR
- ㉔ 8" METAL STUDS
- ㉕ 3 5/8" METAL STUDS
- ㉖ ROLL DOWN COUNTER SHUTTER
- ㉗ COVER HOUSING W FINISHED WOOD TO MATCH SHUTTER
- ㉘ CORAL WALL PANELS AND MOLDING W FINISHED EDGES
- ㉙ PAINT

**GENERAL NOTES**

1. INSTALL DOUBLE STUDS AT EACH JAMB.
2. CAULK CONTINUOUSLY AT METAL/GYP. BD. INTERFACE



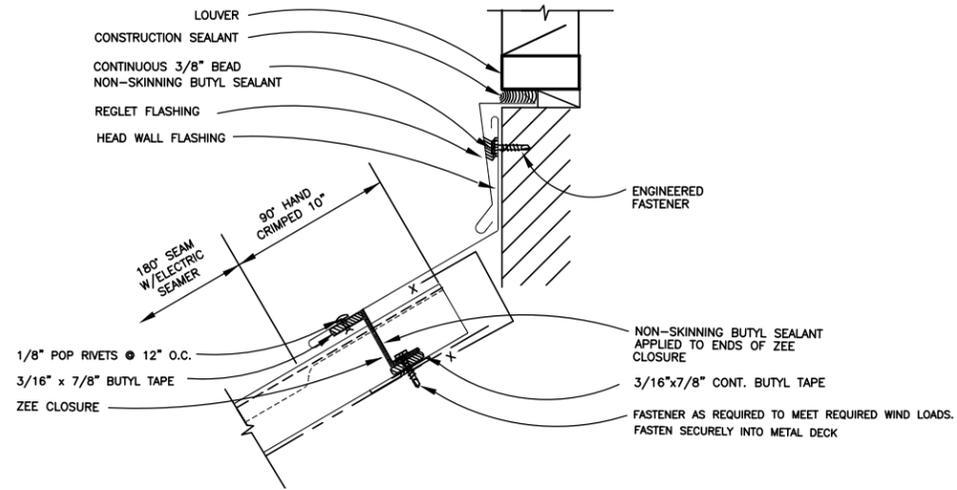
A/E FIRM  
HDR Engineering, Inc.  
Pensacola, FL  
CA 4213

DESIGNED:  
J. KLEIN  
GADD  
JHK  
TECH. REVIEW:  
DATE:  
02/2008

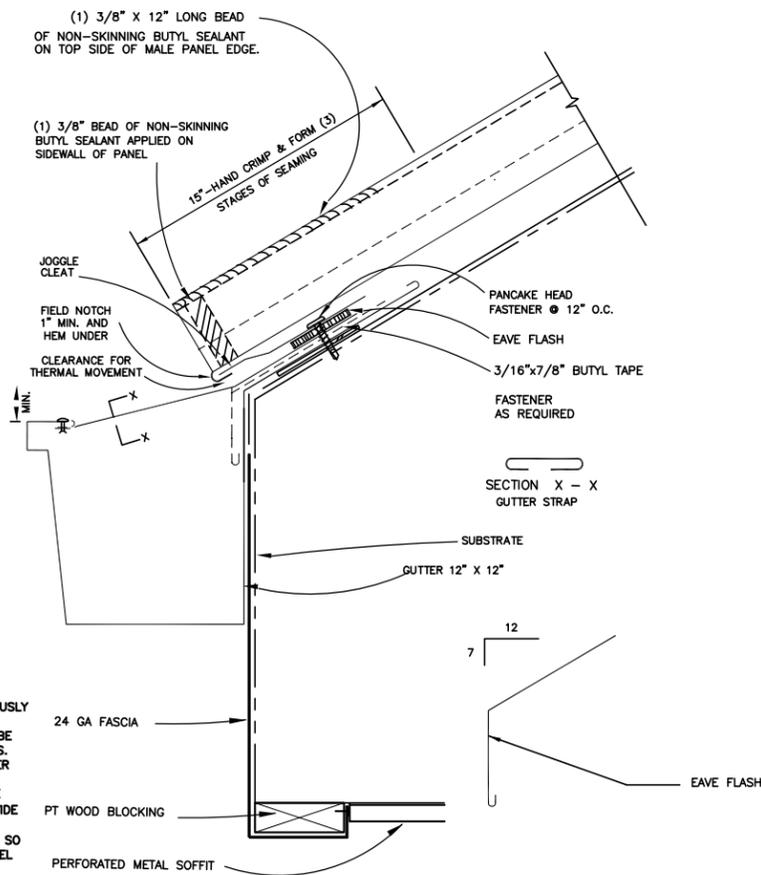
SUB SHEET NO.  
**A13**

TITLE OF SHEET  
**TAMIAMI TRAIL WELCOME CENTER  
DOOR/WINDOW DETAILS**  
BIG CYPRESS NATIONAL PRESERVE

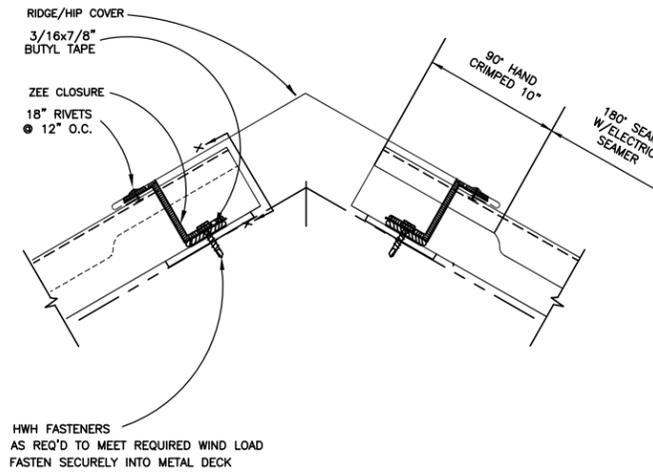
DRAWING NO.  
**176  
41,009**  
PMIS/PKG NO.  
61948/110159  
SHEET  
**42 of 69**



1 SECTION AT HEAD-WALL  
A14

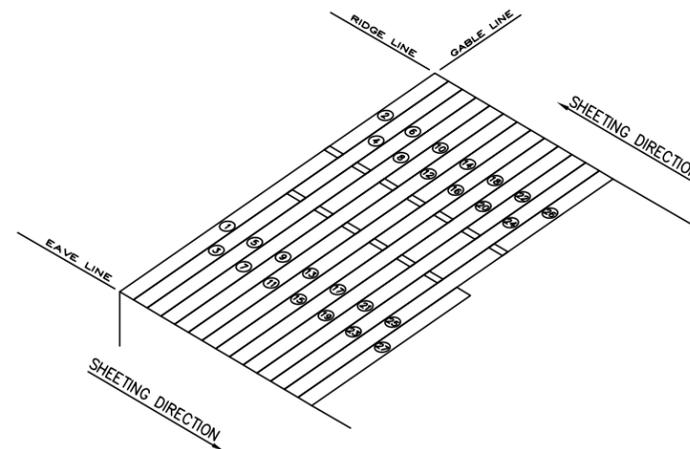


2 SECTION AT GUTTER/FASCIA  
A14



3 SECTION AT RIDGE CAP  
A14

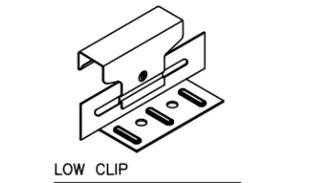
GABLE BUILDINGS WITHOUT PANEL ENDLAPS CAN BE SHEETED SIMULTANEOUSLY FROM EITHER END OF THE BUILDING. HOWEVER, IF THE BUILDING HAS PANEL ENDLAPS, THE ROOF MUST BE SHEETED LEFT TO RIGHT LOOKING UP THE SLOPE.



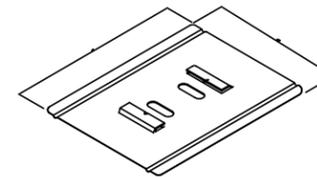
4 SHEETING DIRECTION AND PANEL SEQUENCE  
A14

THE SHEETING SEQUENCE FOR THE SPANSEAM PANEL IS AS INDICATED ABOVE. PLEASE NOTE THE PLACEMENT OF THE PANELS BY THE CIRCLED NUMBERS. THE UPHILL PANEL AT AN ENDLAP WILL BE SWEDGED ON THE LOWER END FOR NESTING PURPOSES. ENDLAPS OF ADJACENT PANELS MUST BE STAGGERED AT LEAST ONE PURLIN SPACE TO PREVENT MATERIAL BUILD-UP.

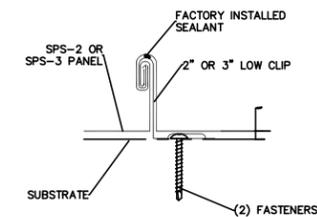
4 PANEL LAYOUT INFORMATION  
A14



LOW CLIP



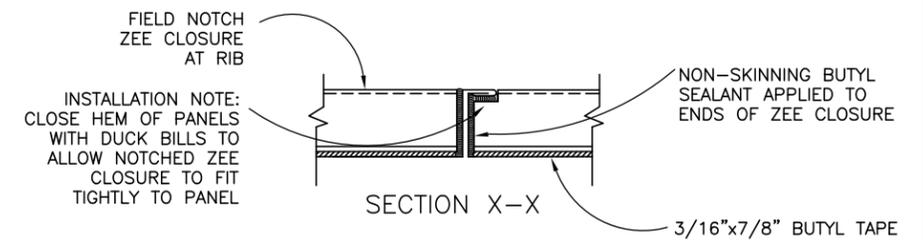
BEARING PLATE FOR LOW CLIP



SECTION-SEAMED LOW CLIP

INSTALLATION NOTE:  
PANELS MUST BE HAND CRIMPED TO 90° AT ALL CLIPS BEFORE MECHANICALLY SEAMING PANELS. USE HAND CRIMPING TOOL DESIGNED FOR SPAN-LOK PANEL.

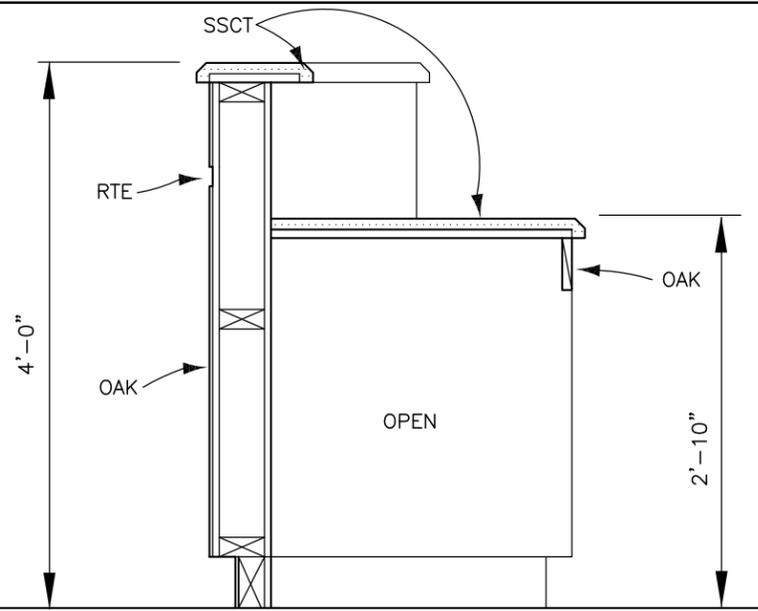
5 CLIP INFORMATION  
A14



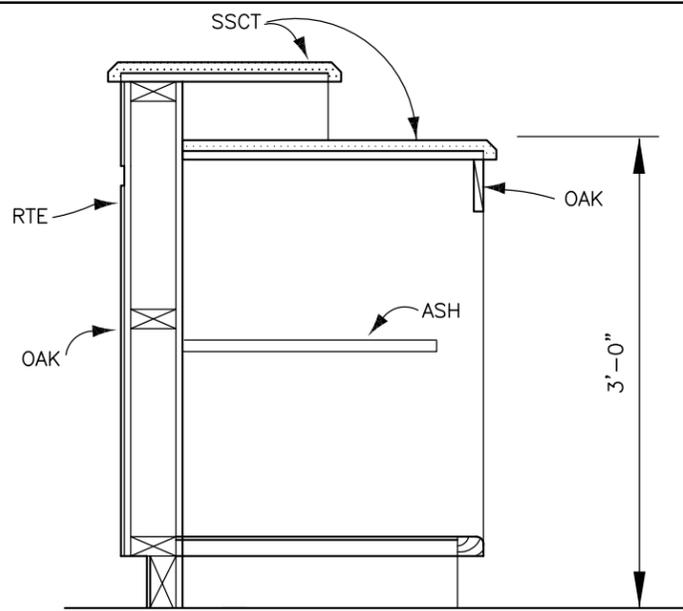
6 SECTION X-X  
A14

FASCIA NOTE...  
FASCIA SHALL RUN CONTINUOUSLY BETWEEN DOWNSPOUTS AND CORNER PIECES AND SHALL BE HEMMED AT ALL CONNECTIONS. FASTEN FASCIA BEHIND GUTTER AND CONCEALED SIDE OF BLOCKING W NON-CORROSIVE POP-RIVOTS AT 6\"/>

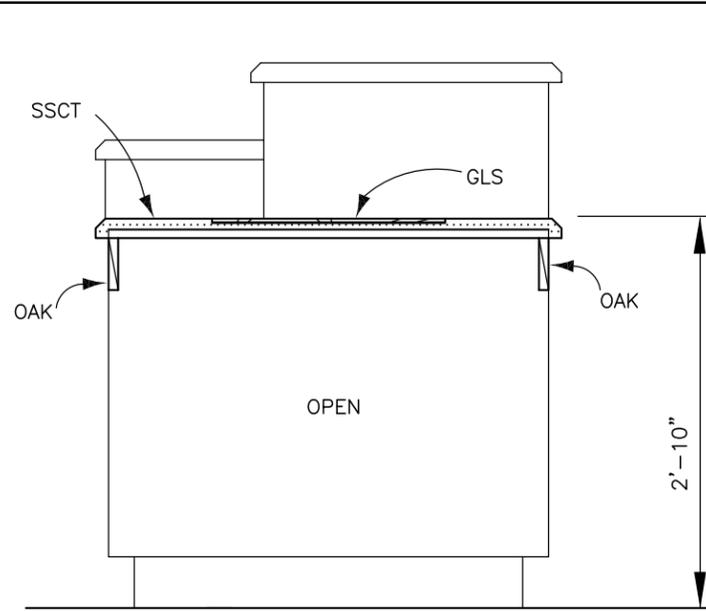
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN GADD JHK TECH. REVIEW:	SUB SHEET NO. <b>A14</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER ROOFING DETAILS BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>43</b> OF <b>69</b>
DATE: 02/2008				



1 CABINET SECTION  
A15



2 CABINET SECTION  
A15



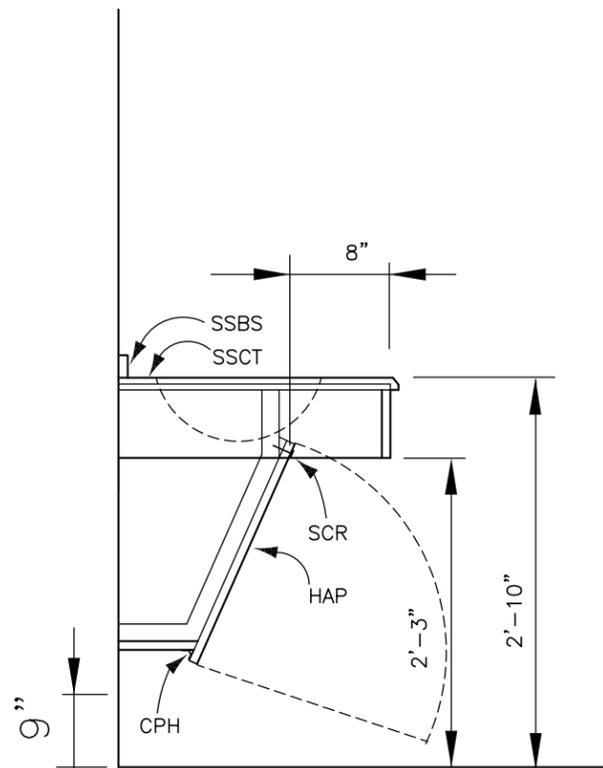
3 CABINET SECTION  
A15

**LEGEND**

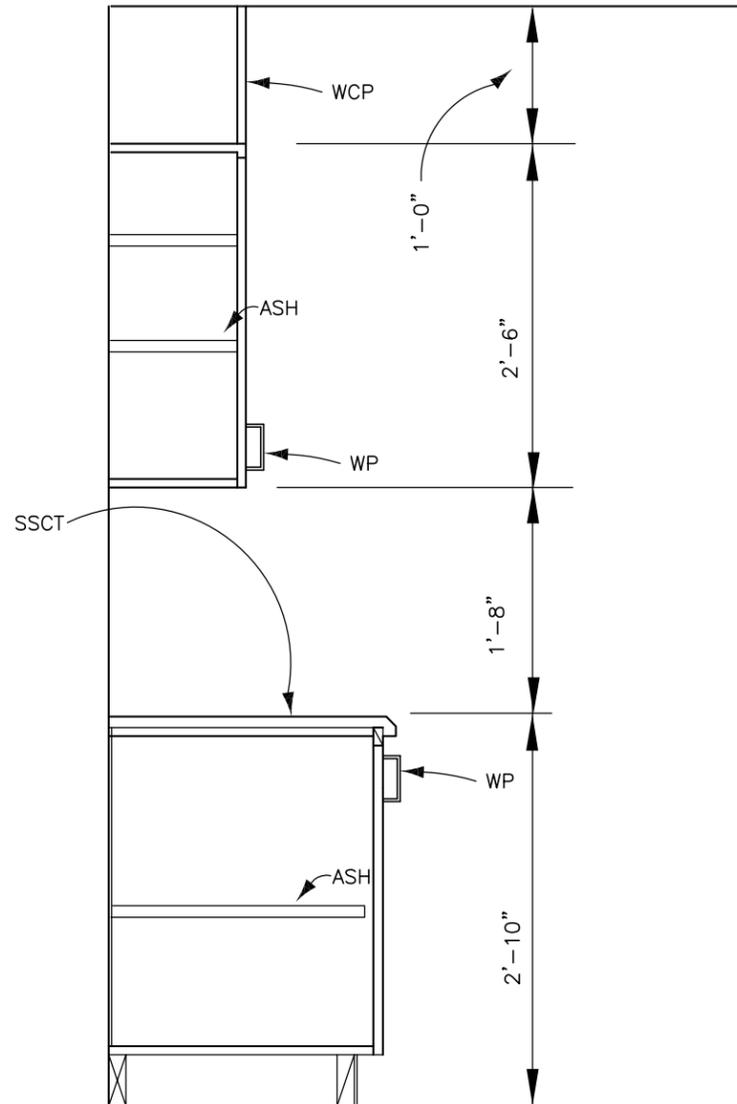
- SSCT SOLID SURFACE COUNTERTOP ON 3/4" PLYWOOD
- RTE 1/4" ROUT IN COUNTER FRONT
- OPEN OPEN KNEE SPACE
- OAK NATURAL FINISHED WHITE OAK
- GLS 1/2" REMOVABLE GLASS INSERT
- ASH ADJUSTABLE SHELVING
- CPH CONTINUOUS PIANO HINGE
- SCR REINSERTABLE SCREWS @ 12" OC
- WP WIRE PULL
- WCP WOOD CLOSURE PANEL TO MATCH CABINET FINISH
- HAP HINGED ACCESS PANEL
- SSBS 4" SOLIS SURFACE BACK SPLASH

**GENERAL NOTES**

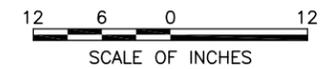
1. LIKE ITEMS ARE OFTEN CALLED OUT ONCE, BUT ARE TYPICAL
2. ALL EXPOSED CABINET SURFACES SHALL BE NATURAL FINISHED WHITE OAK



4 CABINET SECTION  
A15



5 CABINET SECTION  
A15



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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN GAD JHK TECH. REVIEW:	SUB SHEET NO. <b>A15</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER CABINET SECTIONS</b> BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176 41,009</b> PMIS/PKG NO. 61948/110159 SHEET <b>44 of 69</b>
DATE: 02/2008				

**ROOM FINISH SCHEDULE**

ROOM NUMBER	ROOM NAME	DRAWING NUMBER	FLOOR	BASE	WALLS			CEILING			*REMARKS
					NORTH	EAST	SOUTH	WEST	HEIGHT	FINISH	
101	W TOI	A1	C	CP	CP/P1	CP/P1	CP/P1	CP/P1	VAR	P	
102	M TOI	A1	C	CP	CP/P1	CP/P1	CP/P1	CP/P1	VAR	P	
103	F TOI	A1	C	CP	CP/P1	CP/P1	CP/P1	CP/P1	8'-0"	P	
104	JAN	A1	C	RB	P1	P1	P1	P1	8'-0"	P	
105	GALLERY	A1	CSS	WD	P1	P1	P1	P1	VAR	P/ACT	
106	RECPT	A1	CSS	WD	P1	P1	P1	P1	VAR	ACT	
107	RETAIL	A1	CSS	WD	P1	P1	P1	P1	VAR	P	
108	OPEN CFC	A1	CSS	WD	P1	P1	P1	P1	VAR	P/ACT	
109	ALCOVE	A1	CSS	WD	P1	P1	P1	P1	VAR	P	
110	BREAK	A1	CSS	WD	P1	P1	P1	P1	VAR	P	
111	TOI	A1	CSS	PP	P1	P1	P1	P1	8'-0"	P	
112	STOR	A1	CSS	RB	P1	P1	P1	P1	8'-0"	P	
113	MECH	A1	C	RB	P1	P1	P1	P1	VAR	P	
114	AUDITORIUM	A1	CSS	WD	P1	P1	P1	P1	VAR	P/ACT	
115	STOR	A1	C	RB	P1	P1	P1	P1	8'-0"	ACT	
116	STOR	A1	C	RB	P1	P1	P1	P1	8'-0"	ACT	

**MATERIAL AND FINISH LEGEND**

FLOOR		BASE	
C	SEALED CONCRETE	N	NONE
CSS	STAINED AND SEALED CONCRETE	CP	CORAL PATTERN
		RB	RESILIENT BASE
		WD	WOOD

WALLS		CEILING	
CP	CORAL PATTERN PANELS	ACT	ACOUSTICAL CEILING TILE
P	PAINTED GYPSUM BOARD	P	PAINTED GYPSUM BOARD

REMARKS:

1. \_\_\_\_\_

**COLOR LEGEND - INTERIOR**

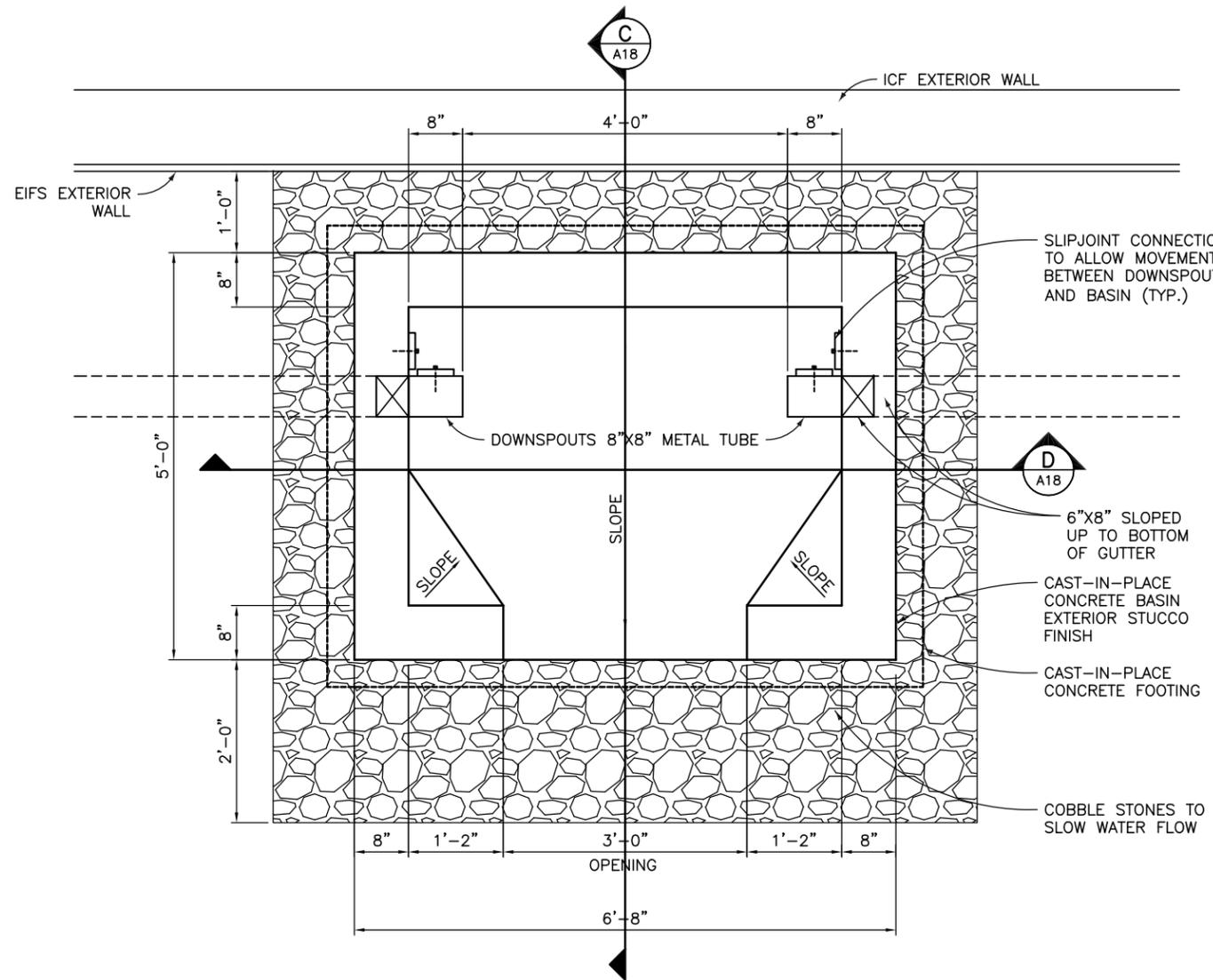
SURFACE	MARK	MATERIAL/MANUFACTURER	COLOR	*REMARKS
FLOOR	CSS	STAINED & SEALED CONCRETE	SCOFIELD LITHOCHROME WEATHERED BRONZE CS-12	
BASE	RB	RUBBER BASE	ROPPE SANDSTONE 171	
	WD	WOOD - WHITE OAK	NATURAL FINISH	
	CP	CORAL PATTERN PANELS	OFF WHITE	
	CP	CORAL PATTERN WALL PANELS	OFF WHITE	
WALLS	P1	PAINT - BENJAMINE MOORE MATTE LATEX	OCEAN AIR - 2123-50	
CEILING	ACT	ARMSTRONG 2x2 REGULAR	WHITE	
	P1	MATTE LATEX CEILING PAINT	CEILING WHITE	
DOORS		WOOD - WHITE OAK - STAINED	MINWAX OIL BASED STAIN - "CHERRY"	
HM DOOR FRAMES		PAINT - BENJAMINE MOORE ALKIDE ENAMEL	MATCH TO ADJACENT WALL COLOR	
ELEC DEVICES			WHITE	
HVAC GRILLS & DIFFUSERS			WHITE	
WOOD CABINETS		WOOD - WHITE OAK - STAINED	MINWAX OIL BASED STAIN - "RED OAK"	
SOLID SURFACE COUNTERTOPS		HIGH-MACS	MARIN #VG23	FOR UPPER COUNTERTOP AT RECEPTION DESK ONLY
WINDOW BLINDS		HUNTER DOUGLAS	COUNTRY WOODS COLLECTION - "WARM CHERRY #870	
WOOD TRIM		WOOD - WHITE OAK - STAINED	MINWAX OIL BASED STAIN - "CHERRY"	
TOILET PARTITIONS		PHYNOTIC SANTANA	FROST GRANITE	

**COLOR LEGEND - EXTERIOR**

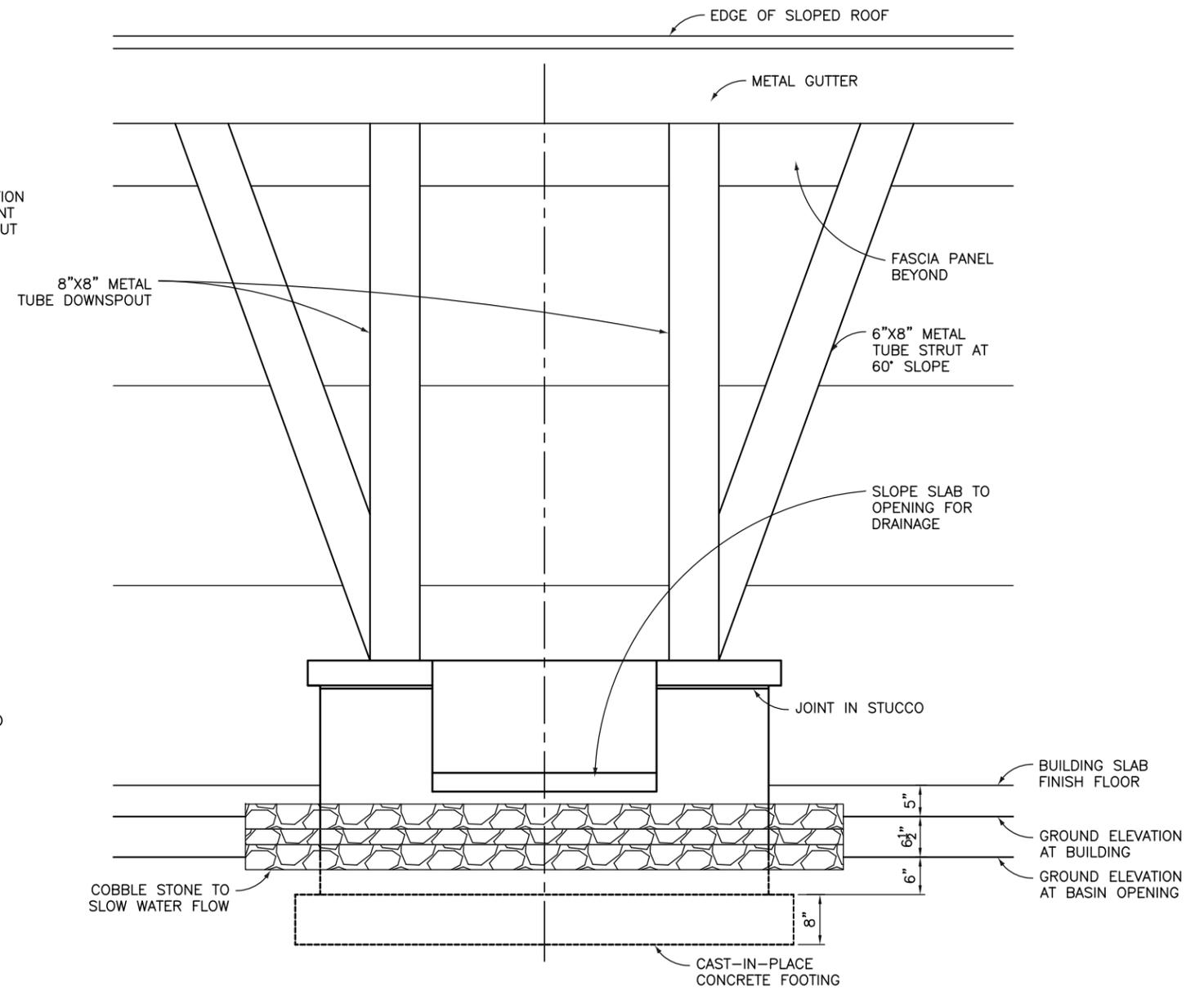
SURFACE	MARK	MATERIAL/MANUFACTURER	COLOR	*REMARKS
ROOF		AEP SPAN	MILL FINISH GALVALUME	
FASCIA/SOFFIT		AEP SPAN	KYNAR FINISHED GALVALUME - WHITE	
EIFS FINISH		DRYVIT	MATCH TO SHERWIN WILLIAMS #6192 - "COASTAL PLAIN"	
			SAND PEBBLE FINISH	
CORAL PATTERN WALL PANELS		CORAL-LITE	NATURAL	
ALUM DOORS, FRAMES & WINDOWS			MATCH TO KAWNEER 397x364 FLUROPON ANTIQUE BRONZE	

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN	SUB SHEET NO. <b>A16</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER ROOM FINISH SCHEDULE</b>	DRAWING NO. <b>176</b> 41,009
	TECH. REVIEW: GADD			PMIS/PKG NO. 61948/110159
	DATE: 02/2008			SHEET <b>45</b> of 69
				BIG CYPRESS NATIONAL PRESERVE

1/25/08 12:29 WPRITCHETT R17 P:\BIC\110159\16CD\ARCH\17.DWG XREFS: P:\BIC\110159\16CD\\_BASES\240D-24.DWG;



**A** DOWNSPOUT DETAIL  
A1 1"=1'-0"

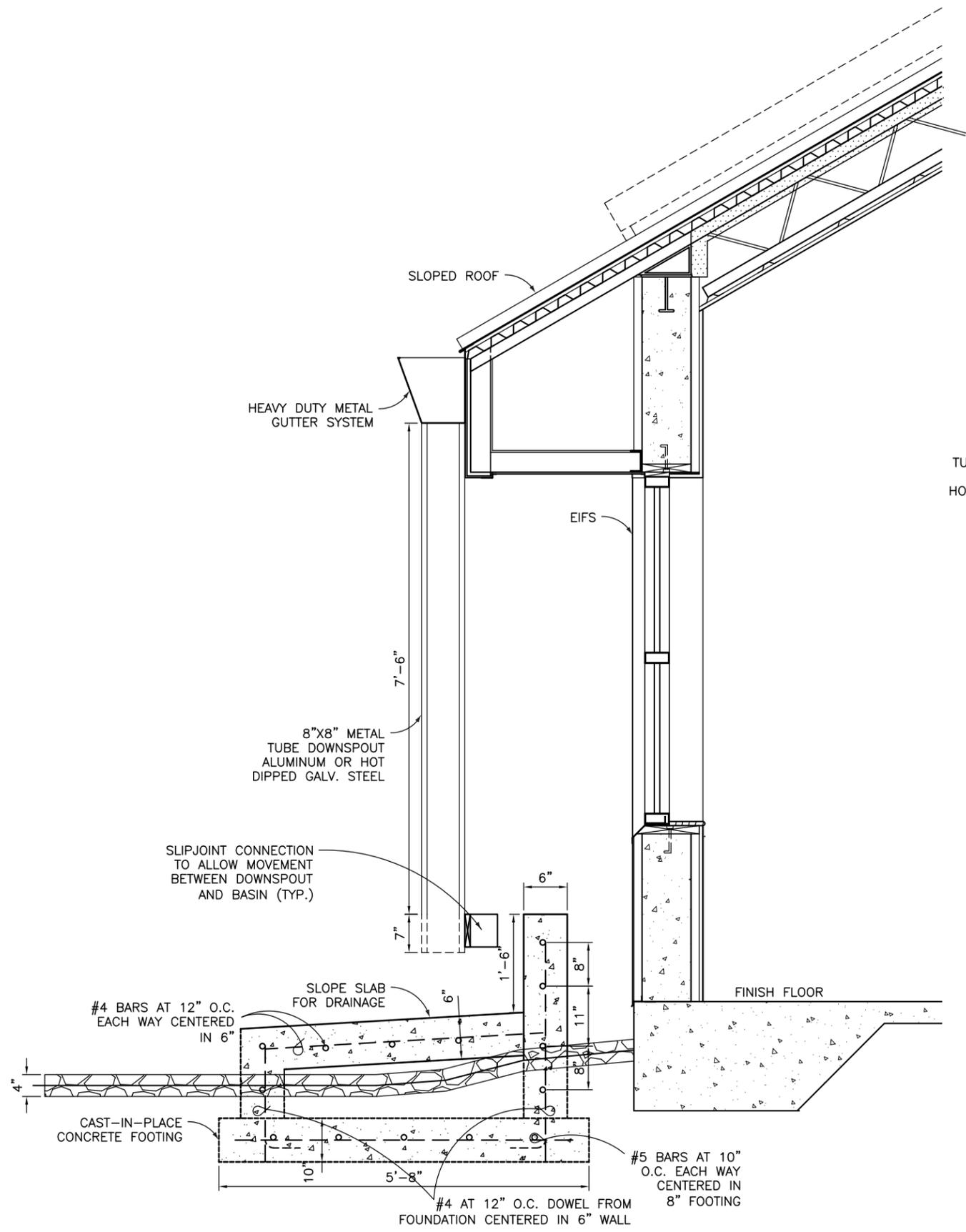


**B** DOWNSPOUT DETAIL  
A1 1"=1'-0"

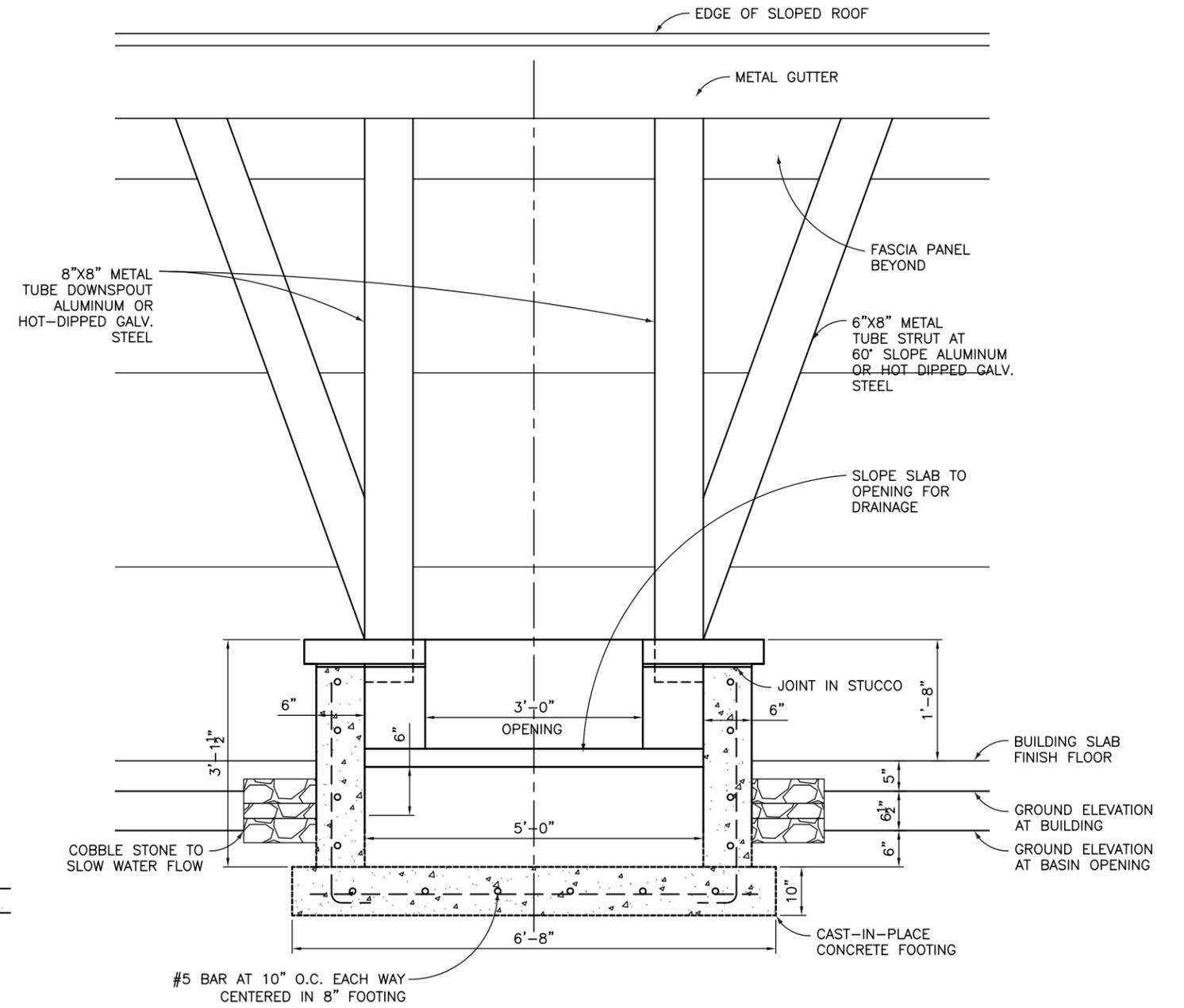


A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN	SUB SHEET NO. <b>A17</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER DOWNSPOUT DETAILS</b>	DRAWING NO. <b>176 41,009</b>
	TECH. REVIEW: GADD			PMIS/PKG NO. 61948/110159
	DATE: 02/2008		BIG CYPRESS NATIONAL PRESERVE	SHEET <b>46</b> OF <b>69</b>

1/25/08 12:35 WPRITCHETT R17 P:\BIC\110159\160D\ARCH\A18.DWG XREFS: P:\BIC\110159\160D\\_BASES\240D-24.DWG;



**C** DOWN SPOUT CROSS SECTION  
1"=1'-0"



**D** DOWNSPOUT CROSS SECTION  
1"=1'-0"



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. KLEIN GADD	SUB SHEET NO. <b>A18</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER DOWNSPOUT DETAILS	DRAWING NO. <b>176</b> 41,009
DATE: 02/2008	TECH. REVIEW:		BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159 SHEET <b>47</b> OF <b>69</b>

SINGLE LINE HVAC LEGEND			
	DUCTWORK (SUPPLY, RETURN & EXHAUST)		SUPPLY CEILING DIFFUSER
	SUPPLY DUCT UP		RETURN OR EXHAUST GRILLE
	SUPPLY DUCT DOWN		SIDEWALL SUPPLY
	RETURN OR EXHAUST DUCT UP		SIDEWALL RETURN
	RETURN OR EXHAUST DUCT DOWN		FLEXIBLE CONNECTION (DUCT)
	DUCT RISE		RELIEF AIR SUPPLY TO TOILET
	DUCT DOWN		DUCT SPLIT
	VOLUME DAMPER (MANUAL UNLESS INDICATED A.V.D.)		SQUARE ELBOW W/ TURNING VANES
	TRANSITION		RADIUS ELBOW
	DUCT TAKE-OFF (SEE DETAIL)		TRANSITION (FLAT ON BOTTOM)
	TRANSITION (FLAT ON TOP)		
CFM	CUBIC FEET PER MINUTE		GRILLE SYMBOL
HP	HORSEPOWER	FPM	FEET PER MINUTE
CP	CONTROL PANEL	SP	STATIC PRESSURE
DB	DRY BULB	D	CONDENSATE DRAIN
WB	WET BULB	EF	EXHAUST FAN
A.F.F.	ABOVE FINISH FLOOR	PD	PRESSURE DROP
24/12	DUCT SIZE FIRST DIMENSION IS SIDE SHOWN	M.V.D.	MANUAL VOLUME DAMPER
	THERMOSTAT	T.E.	TOP ELEVATION
	HUMIDISTAT	R.A.	RETURN AIR
PSIG	POUND PER SQUARE INCH	NTS	NOT TO SCALE
RH	RELATIVE HUMIDITY	FD	FLOOR DRAIN
B.E.	BOTTOM ELEVATION	1/M-4	REFERS TO DETAIL OR PLAN ON SHEET M-4
O.A.	OUTSIDE AIR	DN	DOWN
U.C.	DOOR UNDERCUT (1/2")	A.V.D.	AUTOMATIC VOLUME DAMPER
MBH	BTU PER HOUR (1,000)	RS	REFRIGERANT PIPE (SUCTION)
N/A	NOT APPLICABLE	RL	REFRIGERANT PIPE (LIQUID)

HVAC LEGEND			
	DUCTWORK (SUPPLY, RETURN & EXHAUST)		ELBOW WITH TURNING VANES
	SUPPLY DUCT UP		RETURN/EXHAUST CEILING GRILLE
	SUPPLY DUCT DOWN		TRANSITION
	RETURN OR EXHAUST DUCT UP		VOLUME DAMPER (MANUAL UNLESS INDICATED A.V.D.)
	RETURN OR EXHAUST DUCT DN		DAMPER
	DUCT RISE		ELBOW WITHOUT TURNING VANES
	DUCT DOWN		FLEX. DUCT CONN.
	LINED DUCT OR PLENUM		
	FIRE DAMPER		

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE				
		MARK	AH-1	AH-2
INDOOR UNIT	FAN DATA	SUPPLY AIR-CFM	1885	1700
		OUTSIDE AIR-CFM	245	285
		MOTOR H.P.	3/4	3/4
		EXT. S.P.-IN. W.G.	0.4	0.5
		NET TOTAL CAPACITY (MBH)	59.8	59.4
	COOLING DATA	NET SENSIBLE CAPACITY (MBH)	48.5	40.8
		ENT. DB/ENT. WB	80/67	80/67
		MIN. SEER	13.0	13.0
	AUXILIARY HEAT	MIN. KW	5	5
	ELECTRICAL DATA	VOLTS/PHASE	240V/1 $\phi$	240V/1 $\phi$
MCA (AMPS)		33.5	33.5	
MOCP (AMPS)		35	35	
MANUFACTURER	① CARRIER	FX4CNF060	FX4CNF060	
OUTDOOR UNIT	MARK		CU-1	CU-2
	NO. OF COMPRESSORS/STAGES		1	1
	REFRIGERANT TYPE		R-410a	R-410a
	ELECTRICAL DATA	VOLTS/PHASE/HERTZ	240V/1 $\phi$	240V/1 $\phi$
		MCA (AMPS)	34.2	34.2
		MOCP (AMPS)	50	50
	MANUFACTURER	① CARRIER	24ABA360A30	24ABA360A30
	REFRIGERANT PIPE SIZES ②	RL	3/8	3/8
		RS	1-1/8	1-1/8
	① BASIS OF DESIGN OF MATERIAL/EQUIPMENT HAVING THE SAME PERFORMANCE, MATERIAL, AND FEATURES BY YORK, TRANE, OR LENNOX.			
② REFRIGERANT PIPE SIZES ARE FOR ESTIMATING PURPOSE ONLY. MANUFACTURER SHALL PROVIDE FINAL SIZE WITH EQUIPMENT PROVIDED.				
③ PROVIDE ALL UNITS WITH EXPANSION VALVE CONTROL.				

GRILLE SCHEDULE						
MARK	GRILLE TYPE	TITUS MODEL #	SIZE NECK/FACE	FINISH	REMARKS	VOLUME DAMPER
A	(1)	PSS-F3	12/24	OFF WHITE	12" $\phi$ DUCT RUNOUT	NO
B	(1)	PSS-F3	10/24	OFF WHITE	10" $\phi$ DUCT RUNOUT	NO
C	(1)	PSS-F3	8/24	OFF WHITE	8" $\phi$ DUCT RUNOUT	NO
D	(1)	PSS-F3	6/24	OFF WHITE	6" $\phi$ DUCT RUNOUT	NO
E	(3)	50F	24"X24"	OFF WHITE	-	NO
F	(4)	350FL	12"X12"	OFF WHITE	-	NO
G	(2)	50F	12"X12"	OFF WHITE	12/8 DUCT RUNOUT	YES

NOTE: PERFORMANCE IS BASED ON MAXIMUM STATIC LOSS OF 0.06" WG AND N.C. OF 25 OR LESS WITH DAMPER OPEN.

(1) ALUMINUM PERFORATED SQUARE FACE, ROUND THROAT DIFFUSER, LAY-IN.  
(2) 1/2" X 1/2" ALUMINUM CORE EGGRATE GRILLE, SURFACE MOUNT.  
(3) 1/2" X 1/2" ALUMINUM CORE EGGRATE GRILLE, WITH FRAME FOR LAY-IN.  
(4) HEAVY DUTY ALUMINUM SIDEWALL RETURN AIR REGISTER, BLADES PARALLEL TO LONG DIMENSION.

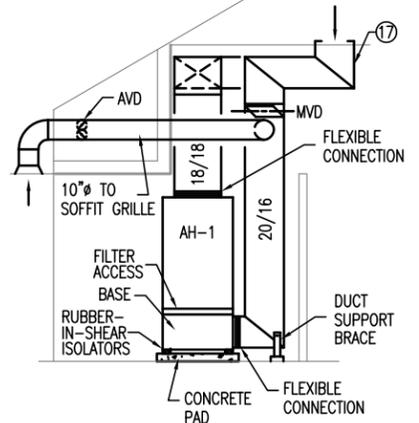
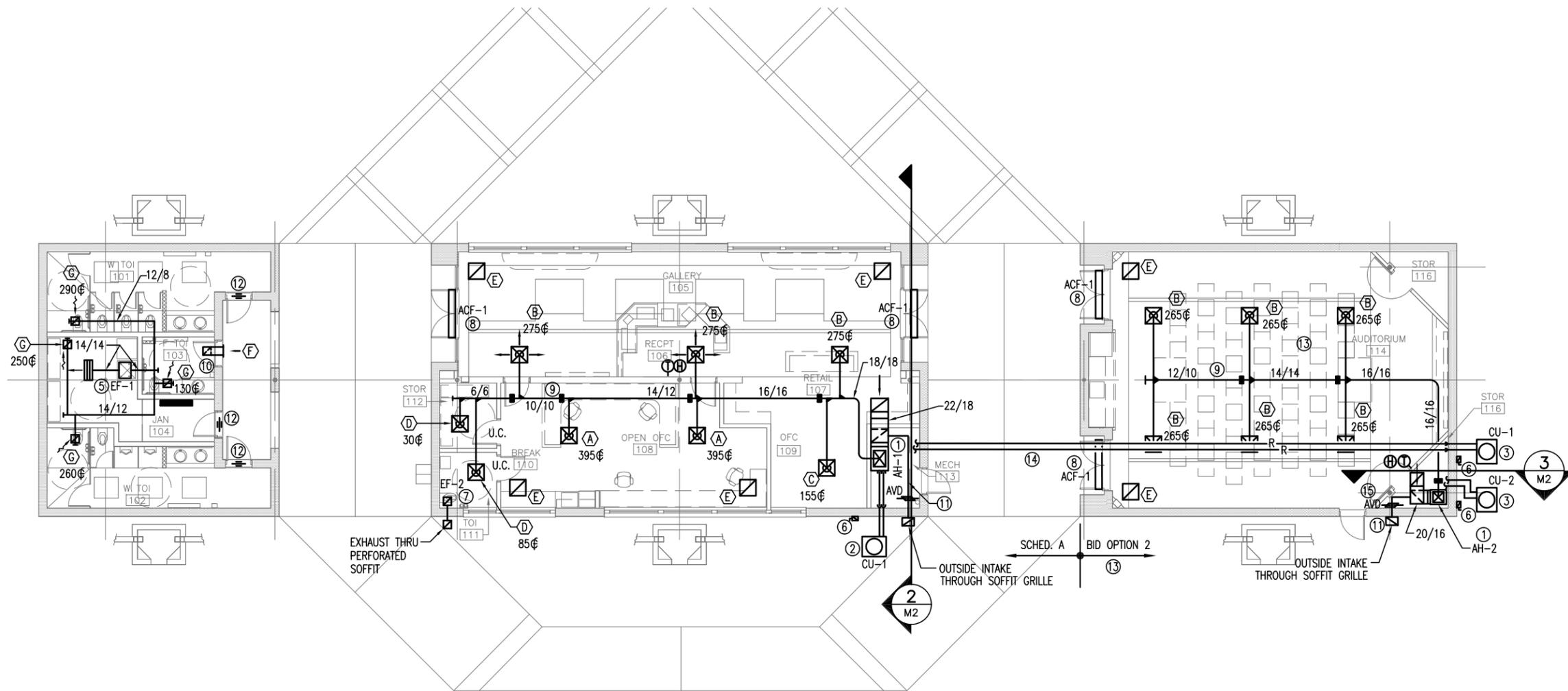
FAN SCHEDULE				
MARK	EF-1 (1)	EF-2 (1)(2)	ACF-1	
TYPE	CAB	CAB	ACF	
CFM	930	100	1800	
EXT. S.P.-INCHES WG.	0.25	0.10	-	
MAX. RPM	1100	950	-	
MAX. SONES	6.0	1.2	-	
DRIVE TYPE	DIRECT	DIRECT	DIRECT	
APPROXIMATE WEIGHT-LBS.	60	10	28	
ELECTRICAL DATA	MOTOR HP (W)	455W	80W	-
	VOLTS	120	120	120
MANUFACTURER: ①	GREENHECK CSP-A1050	GREENHECK SP-B110	MARS WA-72	
(1) PROVIDE UNIT MOUNTED SOLID STATE SPEED CONTROLLER FOR VOLUME ADJUSTMENT.				
(2) PROVIDE TIME DELAY WALL SWITCH MODEL GTD. SET FOR 10 MINUTES.				
ACF: AIR CURTAIN FAN CAB: CEILING MOUNTED CABINET FAN				

- SEQUENCE OF OPERATIONS:**
- (A) AH-1, AH-2 AND EACH RESPECTIVE CONDENSER UNIT:
- PROGRAMMABLE THERMOSTAT: HONEYWELL T7300 WITH Q7300 SUBBASE OR EQUIVALENT.
  - HUMIDITY HIGH LIMIT SET AT 60% (ADJUSTABLE): HONEYWELL H46C HUMIDITY CONTROLLER OR EQUIVALENT.
  - OCCUPIED/UNOCCUPIED MODES - DURING OCCUPIED HOURS, THE AIR HANDLING UNIT SUPPLY FANS (AHU-1 AND AHU-2) SHALL RUN CONTINUOUSLY, THE OUTSIDE AIR DAMPERS SHALL BE OPEN, AND SPACE TEMPERATURES SHALL BE CONTROLLED TO THEIR NORMAL SETPOINTS. DURING UNOCCUPIED HOURS, THE AIR HANDLING UNIT SUPPLY AIR FANS SHALL CYCLE ON AND OFF WITH CALLS FOR COOLING OR HEATING, THE OUTSIDE AIR DAMPERS SHALL BE CLOSED, AND SPACE TEMPERATURES SHALL BE CONTROLLED TO THEIR SETBACK/SETUP SETPOINTS.
  - HUMIDITY SENSOR: ON HUMIDITY RISE ABOVE SETPOINT OF 60% RH AS SENSED BY HUMIDITY SENSOR, OVERRIDE CONTROLS TO INITIATE COOLING AND ENERGIZE ELECTRIC STRIP HEAT TO MAINTAIN SETPOINT.
  - OUTSIDE AIR DAMPERS SHALL ONLY OPEN DURING OCCUPIED CYCLE (OCCUPIED OPERATION) AND DURING TIMES WHEN UNIT IS OPERATED BY OVERRIDE SWITCH. DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED CYCLE.
- (B) EF-1:
- RUN CONTINUOUSLY DURING OCCUPIED MODE THROUGH PROGRAMMABLE TIME CLOCK. DURING UNOCCUPIED MODE FAN SHALL BE DE-ENERGIZED.
- (C) EF-2:
- ENERGIZE THROUGH WALLSWITCH WITH TIME DELAY.
- (D) AIR CURTAIN FANS (ACF-1):
- FAN SHALL BE ENERGIZED THRU WALL SWITCH.

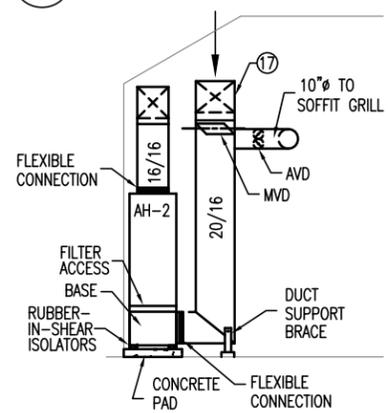
\* NOTE:  
① BASIS OF DESIGN OR ENGINEER APPROVED MATERIAL/EQUIPMENT HAVING THE SAME PERFORMANCE, MATERIAL AND FEATURES.

1/25/08 12:33 MPRICHET R17 P:\BIC\110159\1602\MECH\1.DWG

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. DAY A. BROADUS TECH. REVIEW: H. TLEMSANI DATE: 02/2008	SUB SHEET NO. <b>M1</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER LEGENDS & SCHEDULES BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. 176 41,009 PMIS/PKG NO. 61948/110159 SHEET 48 of 69
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2 SECTION  
M2



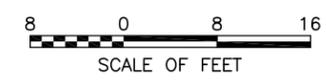
3 SECTION  
M2

**NOTES:**

- ① AIR HANDLING UNIT ON BASE. SEE DETAIL 3/M3.
- ② CONDENSING UNIT ON CONCRETE PAD. SEE DETAIL 2/M3. UNIT, DISCONNECT, AND REFRIGERANT PIPING ARE SHOWN AS LOCATED UNDER SCHEDULE A. THIS LOCATION ONLY APPLIES IF BID OPTION 2 IS NOT AWARDED, OTHERWISE REFER TO NOTE 3.
- ③ CONDENSING UNIT ON CONCRETE PAD. SEE DETAIL 2/M3. LOCATE UNITS MINIMUM 36" APART. UNIT, DISCONNECT, AND REFRIGERANT PIPING ARE SHOWN AS LOCATED UNDER BID OPTION 2.
- ④ ROUTE REFRIGERANT PIPES FROM CONDENSING UNIT TO AH UNIT ABOVE CEILING. ROUTE PIPES HIGH WITHIN MECHANICAL ROOM MIN. 7'-0" A.F.F.
- ⑤ EXPOSED CABINET EXHAUST FAN. TRANSITION AT FAN INLET AS REQUIRED. ROUTE HORIZONTAL DUCT TO LOUVER AT GABLE. REFER TO ARCHITECTURAL FOR BLANK-OFF OF ALL UNUSED PORTION OF LOUVER. LOCATE FAN HIGH ABOVE LOW CEILING AND ROUTE DUCT TO GRILLES IN CEILING.
- ⑥ DISCONNECTS/PANEL ON WALL. COORDINATE WITH ELECTRICAL.
- ⑦ CEILING EXHAUST FAN. ROUTE 4" DISCHARGE DUCT TO PERFORATED SOFFIT. TRANSITION TO 6x6 DUCT AND TERMINATE AGAINST PERFORATED SOFFIT.
- ⑧ 6' AIR CURTAIN FAN. SEE SCHEDULE.
- ⑨ INSULATED LOW PRESSURE DUCT ABOVE CEILING.
- ⑩ RELIEF AIR SUPPLY TO TOILET WITH (G) CEILING GRILLE WITHOUT MVD AND (F) SIDEWALL GRILLE. SEE DETAIL 6/M3.
- ⑪ ROUTE 10" OUTSIDE AIR DUCT TO RETURN AIR DUCT. TRANSITION TO 10x14 DUCT AND TERMINATE AGAINST PERFORATED SOFFIT.
- ⑫ VENTILATION AIR THRU LOUVERED DOOR. REFER TO ARCHITECTURAL.
- ⑬ ALL EQUIPMENT IN THIS AREA PROVIDED UNDER BID OPTION 2.
- ⑭ FOR BID OPTION 2 ROUTE REFRIGERANT PIPING FROM CU-1 TO AH-1 AS SHOWN.
- ⑮ PROVIDE MIN. 6" GAP BETWEEN TOP OF STORAGE ROOM PARTITION AND ROOF DECK FOR RETURN AIR. COORDINATE WITH ARCHITECTURAL.
- ⑯ PROVIDE VOLUME DAMPERS IN 45' TAKE OFF AS SHOWN ON DETAIL 1/M3 (TYPICAL).
- ⑰ ACOUSTICALLY LINED RETURN AIR DUCT.

**GENERAL NOTES (ALL SHEETS)**

- A. FOR DUCT RUNOUT SIZES SHOWN ON PLANS, REFER TO GRILLE SCHEDULE ON SHEET M1.
- B. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF DIFFUSERS AND GRILLES.
- C. SEAL AROUND ALL PIPE AND DUCT PENETRATIONS THRU WALL EXTENDING TO STRUCTURE AS SPECIFIED.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK TO AVOID CONFLICTS BETWEEN TRADES.
- E. ALL TRANSITIONS SHALL BE FLAT ON TOP UNLESS OTHERWISE NOTED.
- F. WHERE ROUND DUCT CONNECT TO RECTANGULAR DUCT, PROVIDE RECTANGULAR TO ROUND ADAPTER WITH 45° ENTRY. DUCT DEPTH IS BASED ON FLEXMASTER "STO" SIDE TAKE-OFF FITTINGS. IF CONTRACTOR USES FITTINGS OF DIFFERENT DIMENSIONS, DUCT DEPTH SHALL BE CHANGED TO ACCOMMODATE FITTINGS AT NO ADDITIONAL COST.
- G. DISCHARGE OF AIR HANDLERS, DUCT SHALL BE SAME AS UNIT DISCHARGE SIZE OPENING. PROVIDE ELBOW WITH EQUAL SIDES AND TURNING VANES.
- H. REFER TO DETAIL 1/M3 FOR VOLUME DAMPERS TO DIFFUSERS.

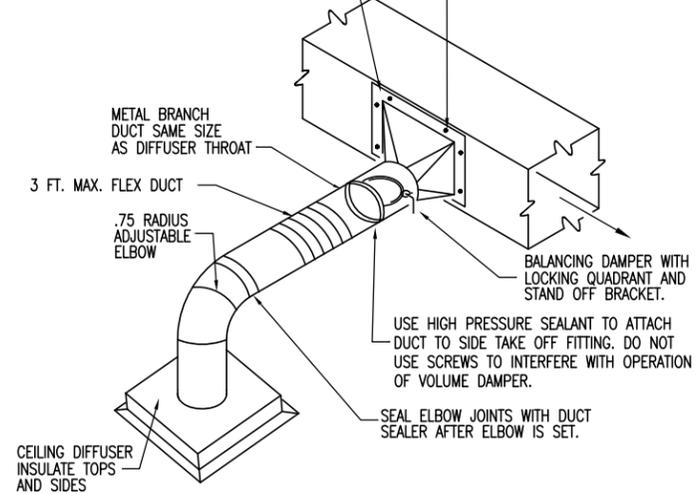


1 HVAC FLOOR PLAN  
M2

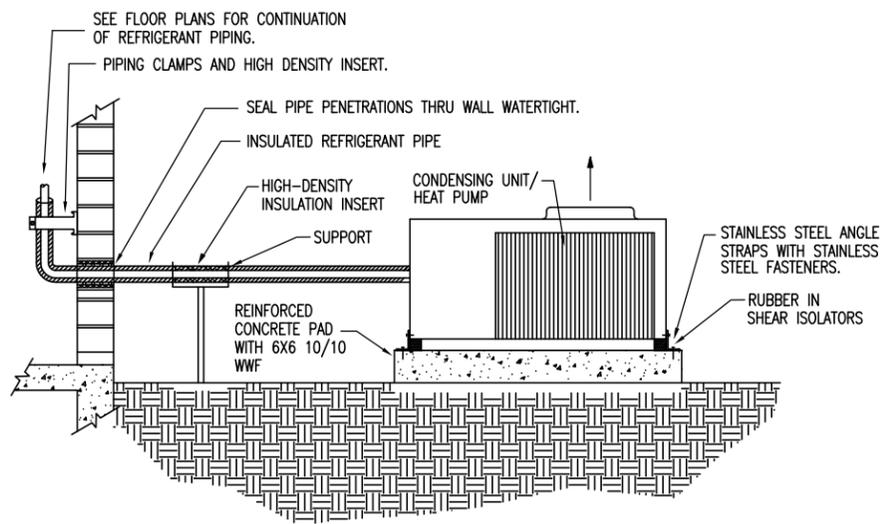
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. DAY GADD A. BROADUS TECH. REVIEW: H. TLEMSANI DATE: 02/2008	SUB SHEET NO. <b>M2</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER HVAC FLOOR PLAN BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMS/PKG NO. 61948/110159 SHEET <b>49</b> of <b>69</b>
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6/18/08 14:24 JESSE VAN HORNE R17 P:\BIC\110159\16CD\MECH\M2.DWG REV:0416-08.DWG

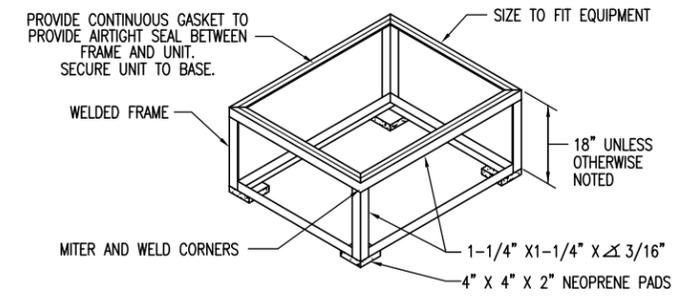
45 DEGREE SIDE TAKE-OFF WITH GASKETED FLANGE. FLEXMASTER 'STO' B03 WITH NYLON BUSHING, SQUARE SHAFT AND U BOLT OR EQUIVALENT BY CROWN. SEAL WITH DUCT SEALER.



**1**  
M3  
**BRANCH DUCT TAKE-OFF**

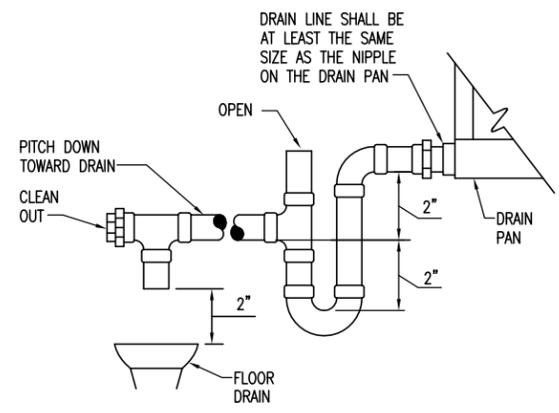


**2**  
M3  
**OUTDOOR UNIT MOUNTING DETAIL**  
NOTE: SECURE UNIT TO PAD.



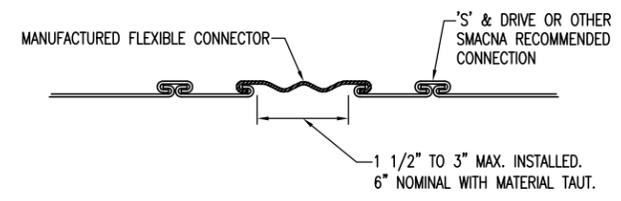
**3**  
M3  
**BASE DETAIL**

NOTE: COVER 3 SIDES AND BOTTOM WITH 24 GAUGE SHEET METAL AND ACCOUSTICALLY LINED INTERIOR WITH 1" CLOSED CELL PLENUM RATED INSULATION.



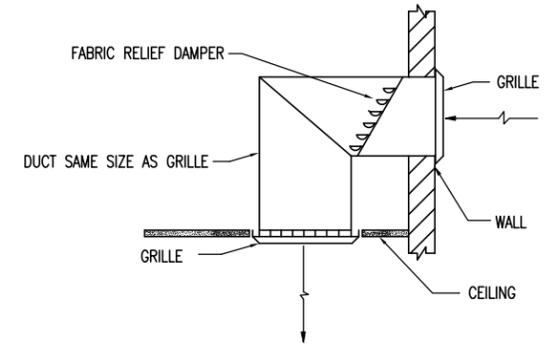
**4**  
M3  
**AIR HANDLING UNIT DRAIN TRAP DETAIL**

① ROUTE TO FLOOR DRAIN, ENSURE POSITIVE SLOPE FOR ADEQUATE DRAINAGE.



**5**  
M3  
**FLEXIBLE DUCT CONNECTION**

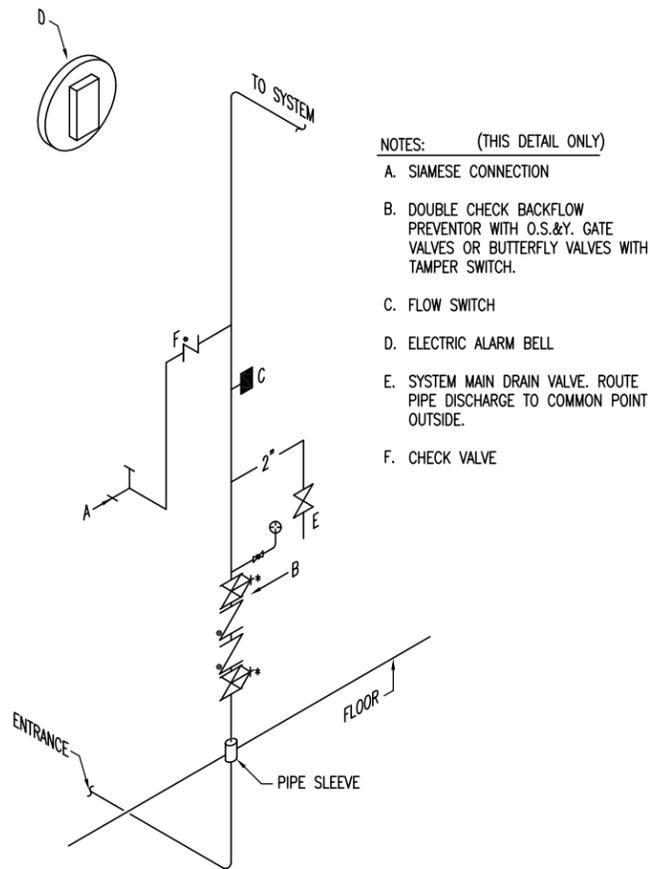
1 1/2" TO 3" MAX. INSTALLED. 6" NOMINAL WITH MATERIAL TAUT.



**6**  
M3  
**RELIEF AIR SUPPLY TO ROOM (RAS)**

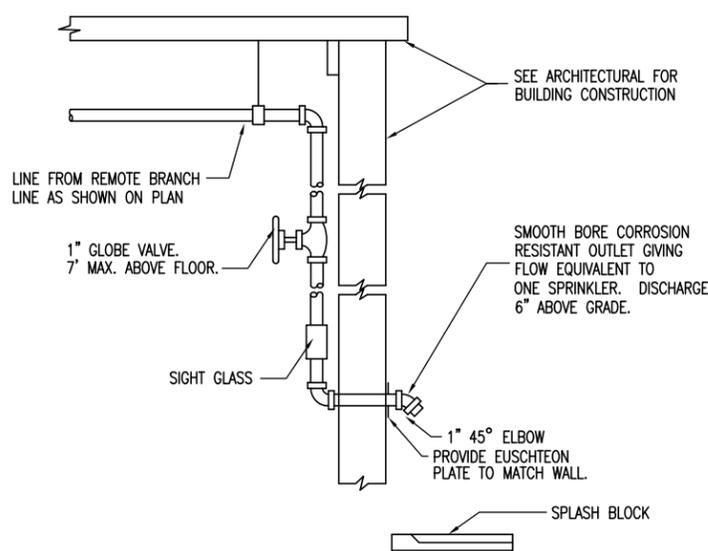
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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: J. DAY A. BROADUS TECH. REVIEW: H. TLEMSANI DATE: 02/2008	SUB SHEET NO. <b>M3</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER HVAC DETAILS</b>	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>50 of 69</b>
			BIG CYPRESS NATIONAL PRESERVE	

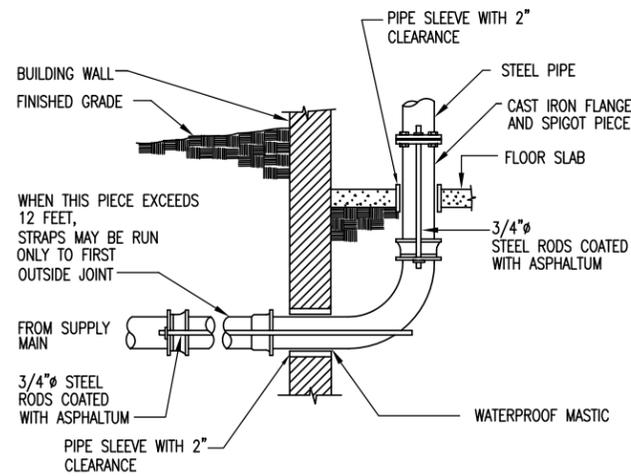


- NOTES: (THIS DETAIL ONLY)
- A. SIAMESE CONNECTION
  - B. DOUBLE CHECK BACKFLOW PREVENTOR WITH O.S.&Y. GATE VALVES OR BUTTERFLY VALVES WITH TAMPER SWITCH.
  - C. FLOW SWITCH
  - D. ELECTRIC ALARM BELL
  - E. SYSTEM MAIN DRAIN VALVE. ROUTE PIPE DISCHARGE TO COMMON POINT OUTSIDE.
  - F. CHECK VALVE

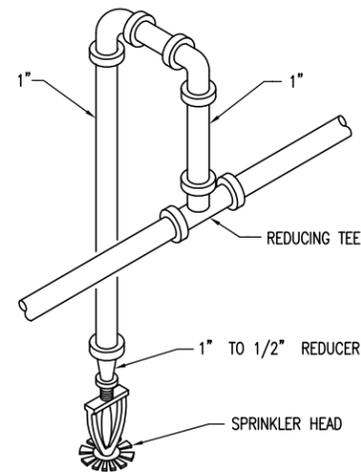
**1** SPRINKLER ENTRANCE RISER  
FP1



**4** INSPECTOR'S TEST CONNECTION  
NOTE: PROVIDE FOR MOST HYDRAULICALLY REMOTE AREA. TERMINATE 6" ABOVE GRADE.  
FP1



**2** INCOMING FIRE PROTECTION WATER SERVICE DETAIL  
FP1



**3** SPRINKLER RETURN BEND  
(IN AREA WITH CEILING)  
FP1

GENERAL NOTES:(ALL SHEETS)

- 1 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF LOCATION OF SPRINKLER HEADS IN CEILING. FIELD COORDINATE.
- 2 CONTRACTOR SHALL REVIEW COMPLETE SET OF CONTRACT DOCUMENTS TO INSURE COORDINATION OF PIPING INSTALLATION, AND COVERAGE IS PROVIDED TO ALL AREAS.
- 3 COORDINATE LOCATION OF SPRINKLER PIPING WITH PLUMBING AND HVAC PIPING, DUCTWORK AND ELECTRICAL TO AVOID CONFLICT.
- 4 SYSTEMS SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH NFPA 13.
- 5 DO NOT ROUTE PIPING OVER ELECTRICAL PANELS. REFER TO ELECTRICAL PLANS FOR LOCATION OF PANELS.
- 6 PROVIDE DRAINS FOR SYSTEM AT BASE OF RISER AS REQUIRED.
- 7 PLANS ARE DIAGRAMMATIC SHOWING PARTIAL LAYOUT AND TYPE OF SYSTEM TO BE USED. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING LOCATION OF ALL REQUIRED HEADS (IN ACCORDANCE WITH NFPA 13), PIPING, PIPE SIZES, HANGERS, ELEVATIONS, INSTALLATION DETAILS, AND HYDRAULIC CALCULATIONS.

FIRE PROTECTION SPECIALITIES

	ELBOW UP		ELBOW DOWN
	BRANCH OUT BOTTOM		BRANCH OUT TOP
	TEE OUT BOTTOM		TEE OUT TOP
	SCREWED UNION		FLANGED UNION
	PIPE CAP		BLIND FLANGE
	PIPE ANCHOR		PIPE SLEEVE
	ECCENTRIC REDUCER		CHECK VALVE
	OS&Y VALVE		PIV POST INDICATOR VALVE
*	TAMPER SWITCH	WMA	WATER MOTOR ALARM
FM	FIRE MAIN	U.G.	UNDERGROUND
	PENDANT HEAD(CEILING)		POST INDICATOR VALVE
	SIDEWALL HEAD		UPRIGHT HEAD
	ALARM VALVE & TRIM		DRY SIDEWALL HEAD
	FIRE DPT CONNECTION (SIAMESE).	FS	FLOW SWITCH
TS	TAMPER SWITCH	FM	FIRE MAIN

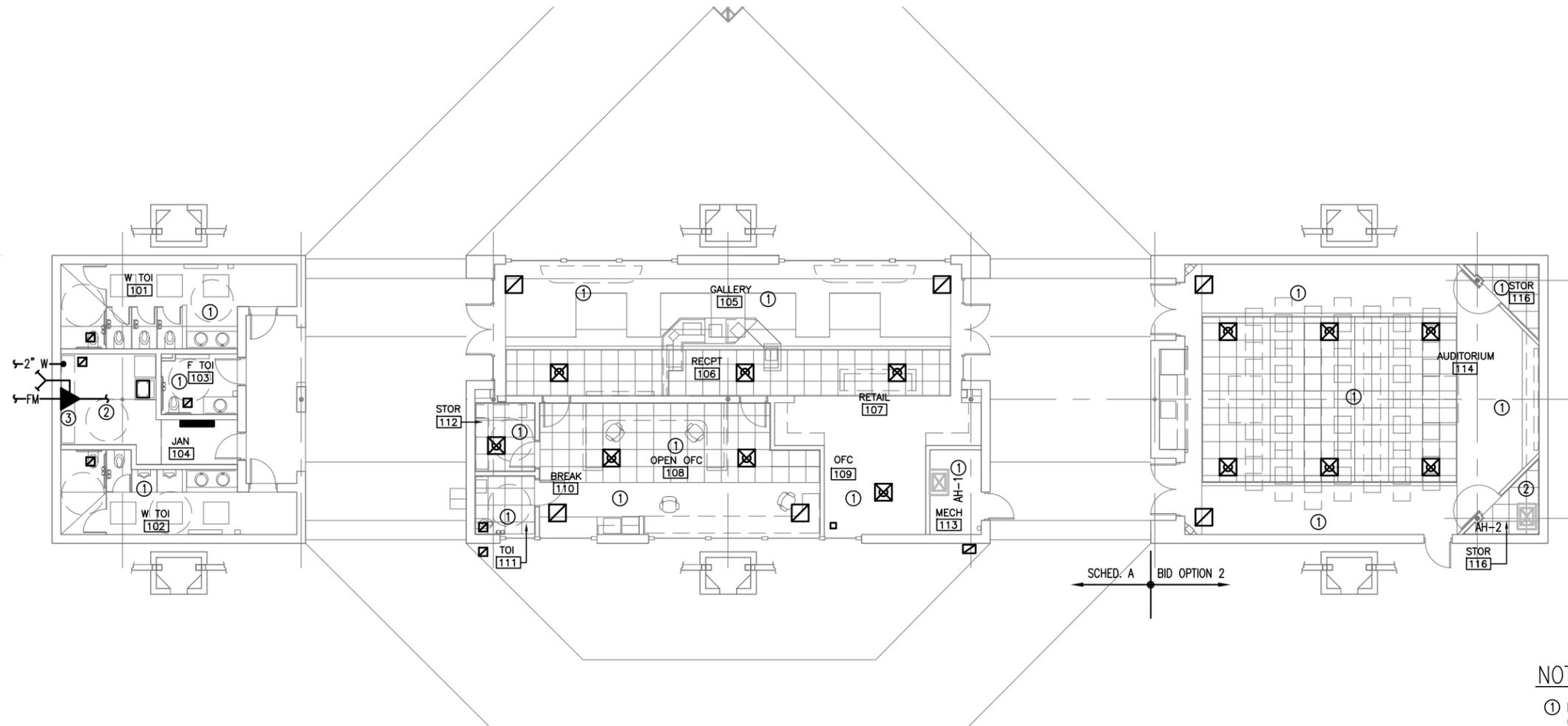
FIRE PROTECTION SCHEDULE

AREA NAME	HAZARD	MAX S.F. PER HEAD	APPLICATION AREA S.F.	TYPE SYSTEM	DENSITY GPM/FT <sup>2</sup>	HOSE ALLOWANCE GPM
ALL AREAS	LIGHT HAZARD	225	1500	WET	0.10	100

SYSTEM SHALL BE DESIGNED BASED ON A FLOW OF 250 GPM AT 51 PSI PRESUMED TO BE AVAILABLE THRU A 4" PIPE CONNECTED TO A MAIN 200' AWAY. CONTRACTOR SHALL PROVIDE TEMPORARY WATER SUPPLY AT THE FLOW AND PRESSURE SHOWN FOR TESTING SYSTEM.

PROVIDE 12"x6" RED PHENOLIC SIGN WITH WHITE CORE LETTERING ADJACENT TO SIAMESE CONNECTION AND SPRINKLER RISER STATING "WARNING, SPRINKLER SYSTEM IS NOT ACTIVE".

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: H. TLEMSANI N. LIZAMA TECH. REVIEW:	SUB SHEET NO. <b>FP1</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER LEGENDS & SCHEDULES BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. 176 41,009 PMIS/PKG NO. 61948/110159 SHEET 51 of 69
DATE: 02/2008				



**NOTES:**

- ① PROVIDE SEMI RECESSED PENDANT HEADS IN AREAS WITH CEILINGS.
- ② PROVIDE UPRIGHT HEADS IN AREA WITHOUT CEILING. COORDINATE WITH HVAC, PLUMBING, AND ELECTRICAL.
- ③ SPRINKLER ENTRANCE. SEE DETAIL 1/FP1. REFER TO CIVIL.

**1 FIRE PROTECTION PLAN**

FP2



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: H. TLEMSANI	SUB SHEET NO. <b>FP2</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER FIRE PROTECTION PLAN</b>	DRAWING NO. <b>176</b> 41,009
	TECH. REVIEW: N. LIZAMA			PMIS/PKG NO. 61948/110159
	DATE: 02/2008		SHEET BIG CYPRESS NATIONAL PRESERVE	<b>52 of 69</b>

**FIXTURE SCHEDULE**

NO.	FIXTURES	FLOOR TO RIM	WASTE INCHES	SUPPLY SIZE (INCHES)		MANUFACTURER & MODEL NO. ①	DESCRIPTION
				HOT	COLD		
P1	WATER CLOSET	14"	4	--	1	AMERICAN STANDARD #2257.103 CHURCH # 9500 SSC SLOAN "ROYAL" #WES-111 SLOAN "YJ" VARIATION J.R. SMITH #0440	WALL MOUNTED BACK OUTLET, TOP SPUD, SIPHON JET, ELONGATED BOWL, (1.6 GPF). ELONGATED OPEN FRONT SEAT/LESS COVER W/ STAINLESS STEEL HINGES AND POSTS. DUAL-FLUSH VALVE W/ VACUUM BREAKER (1.1-1.6 GPF) PROVIDE VACUUM BREAKER TRAP PRIMER "TP" VARIATION WHERE SHOWN. SPLIT RING PIPE SUPPORT FLOOR MOUNTED CLOSET SUPPORT.
P2	WATER CLOSET (H.C. ACCESSIBLE)	17"-19" MAX.	4	--	1	AMERICAN STANDARD #2257.103 CHURCH # 9500 SSC SLOAN "ROYAL" #WES-111 SLOAN "YJ" VARIATION J.R. SMITH #0440	WALL MOUNTED BACK OUTLET, TOP SPUD, SIPHON JET, ELONGATED BOWL, (1.6 GPF). ELONGATED OPEN FRONT SEAT/LESS COVER W/ STAINLESS STEEL HINGES AND POSTS. DUAL-FLUSH VALVE W/ VACUUM BREAKER (1.1-1.6 GPF) SPLIT RING PIPE SUPPORT FLOOR MOUNTED CLOSET SUPPORT.
P3	WATER CLOSET (H.C. ACCESSIBLE)	17"-19" MAX.	4	--	1	AMERICAN STANDARD #3043.102 CHURCH #9500-SS/C SLOAN "ROYAL" #WES-111 SLOAN "YJ" VARIATION	FLOOR MOUNTED WATER CLOSET, BOTTOM OUTLET, TOP SPUD, ELONGATED BOWL. (1.6GPF) ELONGATED OPEN FRONT SEAT/LESS COVER W/ STAINLESS STEEL HINGES AND POSTS. DUAL-FLUSH VALVE W/ VACUUM BREAKER. (1.1-1.6 GPF) SPLIT RING PIPE SUPPORT
P4	UNDERCOUNTER LAVATORY	--	2	--	1/2	AMERICAN STANDARD #0496.011 SYMMONS S-6080-FR C S & B #97PC BRASSCRAFT #OCR1912A C	VITREOUS CHINA, UNDER COUNTER RIMLESS, REAR OVERFLOW. A.D.A. COMPLIANT SENSOR ACTIVATED, LITHIUM BATTERY POWERED LAVATORY FAUCET. (0.5 GPM FLOW RESTRICTOR) (COLD WATER ONLY) 1 1/4", 17GA. P-TRAP. SUPPLIES W/ ANGLE STOPS.
P5	LAVATORY (H.C. ACCESSIBLE)	34" MAX.	2	1/2	1/2	AMERICAN STANDARD #0356.421 SYMMONS S-6080-FR C S & B #97PC BRASSCRAFT #OCR1912A C J.R. SMITH #0700	20"x18", VITREOUS CHINA, WALL HUNG, SINGLE HOLE, FRONT OVERFLOW, DRILLED FOR CONCEALED ARM SUPPORT. A.D.A. COMPLIANT SENSOR ACTIVATED, LITHIUM BATTERY POWERED LAVATORY FAUCET. (0.5 GPM FLOW RESTRICTOR) (HOT/COLD WATER) 1 1/4", 17GA. P-TRAP. SUPPLIES W/ ANGLE STOPS. FLOOR MOUNTED CARRIER W/ CONCEALED ARMS.
P6	WATERLESS URINAL	24"	2	--	--	ZURN #Z 5795  J.R. SMITH #0617	WALL HUNG NON CARTRIDGE WATERLESS URINAL, VITREOUS CHINA, BACK OUTLET, EXTENDED SIDES FOR PRIVACY, INTEGRAL TRAP, WITH 1 GALLON OF TRAP SEALANT PER FIXTURE. FLOOR MOUNTED CARRIER W/ BEARING PLATE.
P7	WATERLESS URINAL (H.C. ACCESSIBLE)	17" MAX.	2	--	--	ZURN #Z 5795  J.R. SMITH #0617	WALL HUNG NON CARTRIDGE WATERLESS URINAL, VITREOUS CHINA, BACK OUTLET, EXTENDED SIDES FOR PRIVACY, INTEGRAL TRAP, WITH 1 GALLON OF TRAP SEALANT PER FIXTURE. FLOOR MOUNTED CARRIER W/ BEARING PLATE.
P8	ELECTRIC WATER COOLER (H.C. ACCESSIBLE)	36"* 40"*	2	--	1/2	SUNROC - ADA-8-BLN C S & B #97PC SPEEDFLEX #C5RC12 J.R. SMITH #0830	DUAL HEIGHT WALL HUNG TYPE WITH FRONT AND SIDE TOUCH CONTROLS WITH ADA SKIRT KIT. 1 1/4", 17GA. P-TRAP. SUPPLY W/ ANGLE MOUNTED STOP. FLOOR MOUNTED CARRIER W/ BEARING PLATE.
P9	SINGLE COMPARTMENT SINK	--	2	1/2	1/2	ELKAY #DLR-221910 ELKAY #LK-2442 ELKAY #LK-35 C S & B #15 SPEEDFLEX #C5RC12	18 GA. 15"x15" STAINLESS STEEL, SINGLE COMPARTMENT, THREE HOLE. 10" SWING SPOUT GOOSENECK FAUCET W/ WRIST BLADE HANDLES, 0.5 GPM RESTRICTOR/AERATOR. STRAINER 1 1/2", 17GA. P-TRAP. SUPPLIES W/ ANGLE STOPS.
P10	MOP SERVICE SINK	--	3	1/2	1/2	FIAT MSB-3624 CHICAGO #897 FIAT #889-CC FIAT #832-AA	36"x24"x10" DEEP MOLDED STONE MOP BASIN AND 3" INTEGRAL DRAIN. SERVICE SINK FAUCET W/ VACUUM BREAKER AND WALL BRACE. 24"x3" STAINLESS STEEL MOP HANGER. 30" LONG HEAVY DUTY FLEXIBLE HOSE W/ 18 GA. #302 STAINLESS STEEL BRACKET.
FD-1	FLOOR DRAIN	--	3	--	--	J.R. SMITH #2005C03(-B-P050)	FLOOR DRAIN W/ SQUARE TOP AND TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	--	3	--	--	J.R. SMITH #3365T03(-A)	REFRIGERATOR DRAIN W/ RECESSED GRATE, MOUNT FLUSH WITH FLOOR.

\* TO CENTERLINE OF BUBBLER FOR HANDICAPPED ACCESSIBLE UNIT.  
 \*\* TO CENTERLINE OF BUBBLER FOR NON-HANDICAPPED ACCESSIBLE UNIT.  
 HC - HANDICAPPED

**GENERAL NOTES**

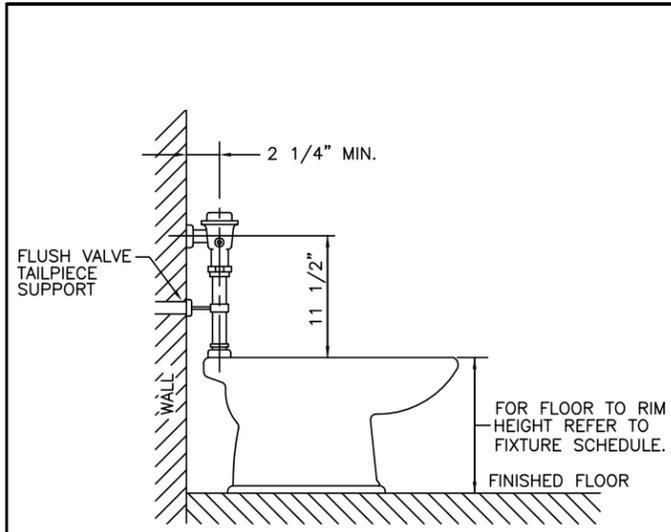
- 1- SEE ARCHITECTURAL PLANS FOR LOCATION OF ALL PLUMBING FIXTURES COORDINATE PLUMBING PIPING WITH HVAC DUCTS, FIRE PROTECTION PIPING AND ELECTRICAL CONDUIT.
- 2- ALL WATER PIPING SHALL BE RUN ABOVE CEILING UNLESS OTHERWISE NOTED.
- 3- ALL VENTS THRU ROOF (VTR) SHALL BE OFFSET A MINIMUM OF 15'-0" FROM ALL OUTSIDE INTAKES.
- 4- ALL FLOOR DRAINS ARE TYPE FD-1 UNLESS OTHERWISE NOTED.
- 5- ALL PIPES PASSING THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED IN ACCORDANCE WITH CONTRACTOR SPECIFICATIONS. REFER TO ARCHITECTURAL.

**LEGEND**

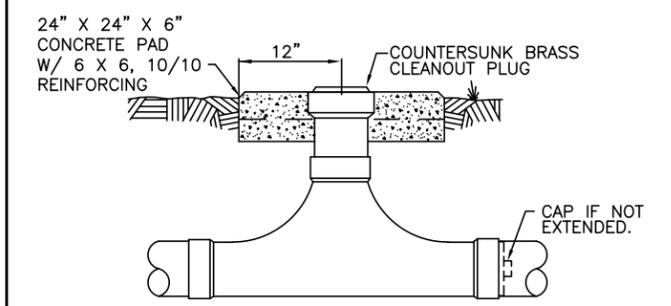
— CW —	COLD WATER CPVC PIPING	— — — — —	SOIL , WASTE	B.F.	BELOW FLOOR
— HW —	HOT WATER CPVC PIPING (110°)	-----	VENT	A.C.	ABOVE CEILING
--- T ---	TRAP PRIMER LINE	— — —	BALL VALVE	NTS	NOT TO SCALE
— — —	BALANCE VALVE	UNO	UNLESS NOTED OTHERWISE	DN	DOWN
— — —	CHECK VALVE	— — —	UNION	WHA	WATER HAMMER ARRESTOR
— + —	SILL COCK (SC) HOSE BIBB (HB)	— O —	CLEANOUT (CO)	SS	SANITARY SEWER
— — —	FLOOR DRAIN (FD)	V.T.R.	VENT THRU ROOF	WH	WALL HYDRANT
U.G.	UNDERGROUND	H.B.	HOSE BIBB	E.C.O.	EXTERIOR CLEANOUT

\* **NOTE:**  
 ① BASIS OF DESIGN OR ENGINEER APPROVED MATERIAL/EQUIPMENT HAVING THE SAME PERFORMANCE, MATERIAL AND FEATURES.

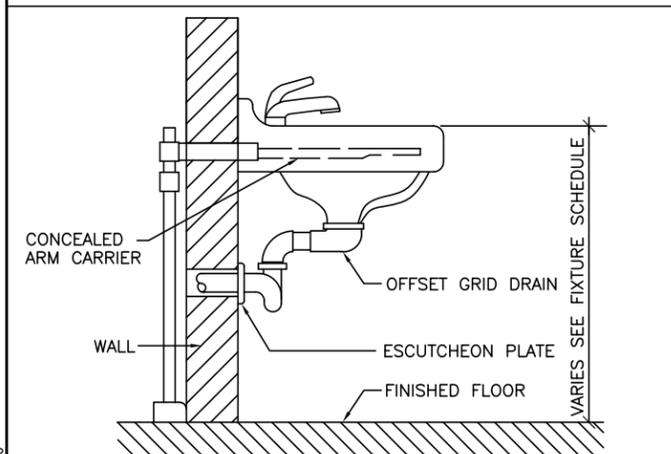
A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: A. BROADUS TECH. REVIEW: A. BROADUS DATE: 02/2008	SUB SHEET NO.  <b>P1</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER LEGENDS &amp; SCHEDULES</b>  BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>53 of 69</b>
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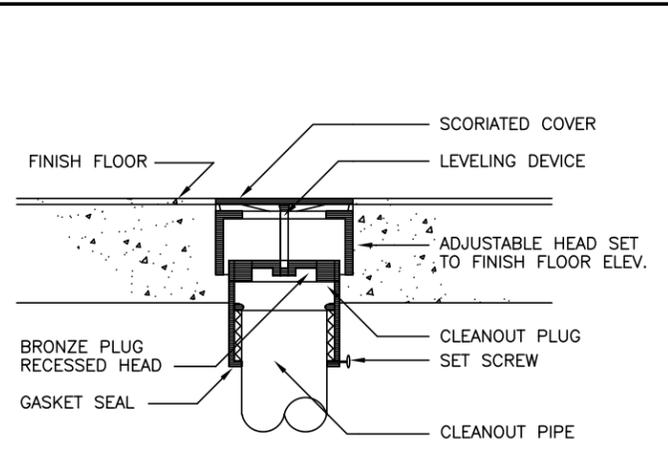
**1**  
P2  
**1** FLUSH VALVE MOUNTING  
LOCATE FLUSH VALVE ON WIDE SIDE OF TOILET.



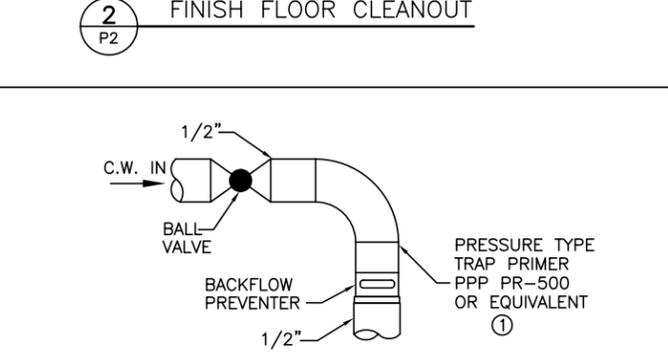
**4**  
P2  
**4** TWO-WAY EXTERIOR CLEANOUT



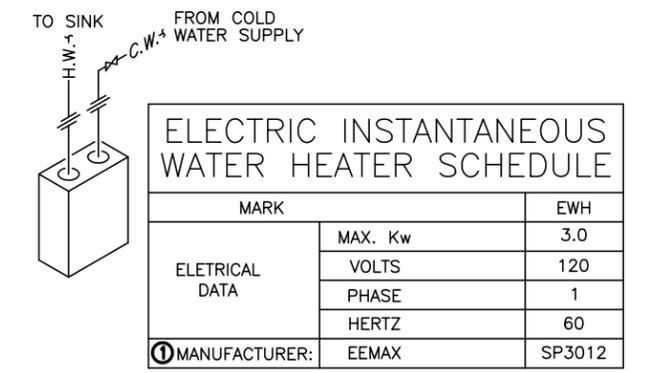
**6**  
P2  
**6** LAVATORY MOUNTING



**2**  
P2  
**2** FINISH FLOOR CLEANOUT

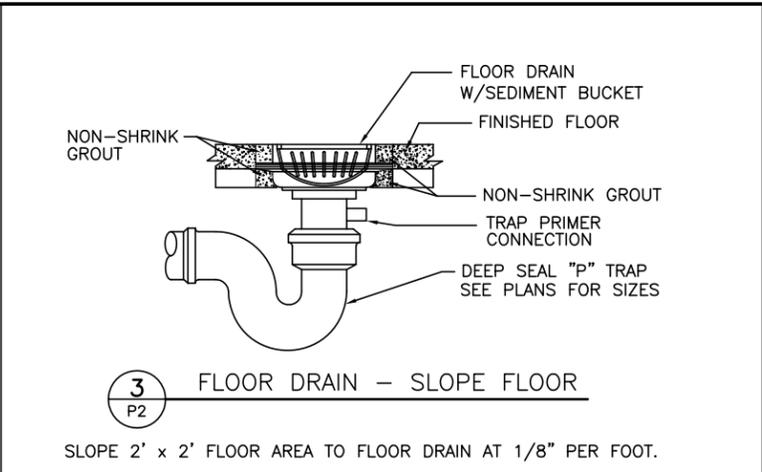


**5**  
P2  
**5** TRAP PRIMER

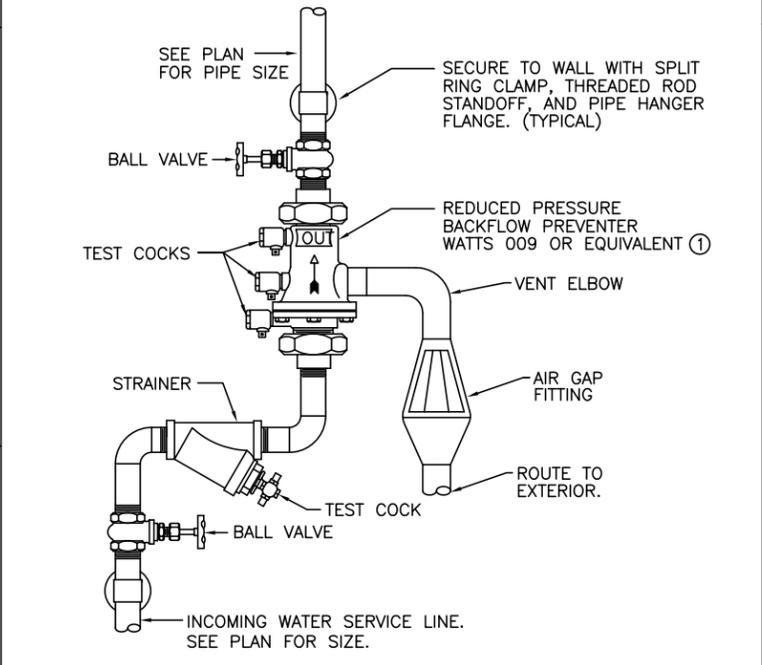


NOTE: ① BASIS OF DESIGN OR MATERIAL/EQUIPMENT HAVING THE SAME PERFORMANCE, MATERIAL AND FEATURES.

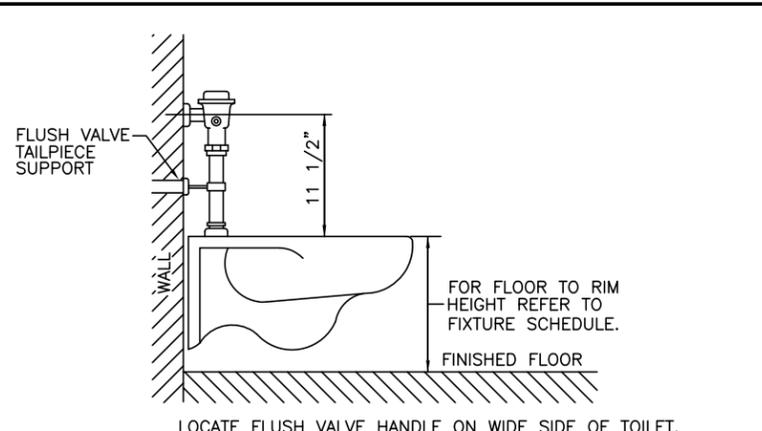
**7**  
P2  
**7** INSTANTANEOUS WATER HEATER DETAIL



**3**  
P2  
**3** FLOOR DRAIN - SLOPE FLOOR  
SLOPE 2' x 2' FLOOR AREA TO FLOOR DRAIN AT 1/8" PER FOOT.



**8**  
P2  
**8** REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

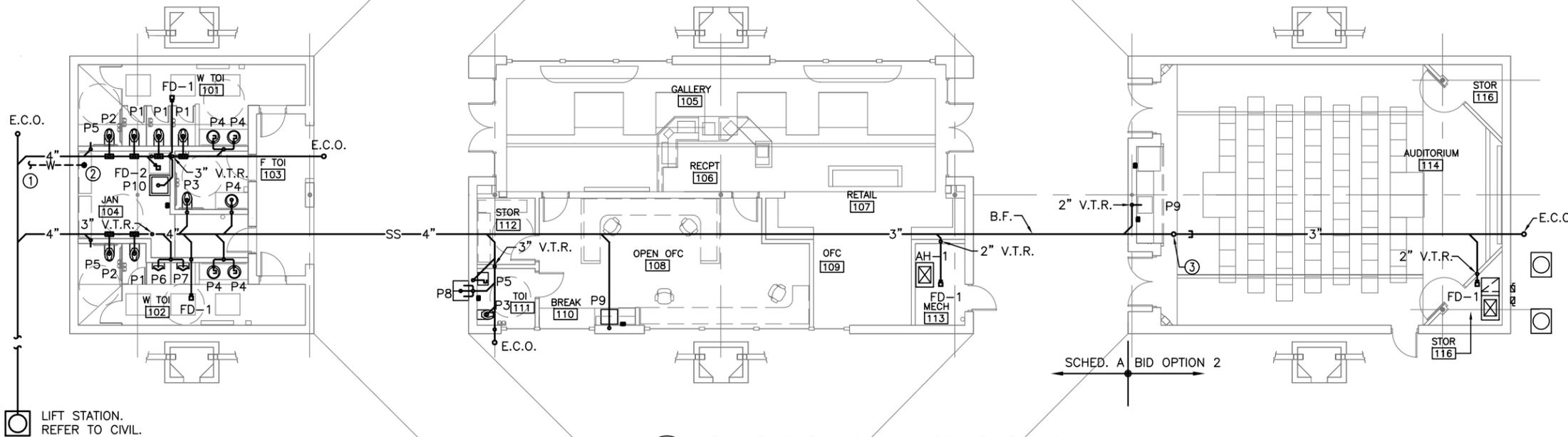


**9**  
P2  
**9** FLUSH VALVE MOUNTING  
LOCATE FLUSH VALVE ON WIDE SIDE OF TOILET.

\* NOTE:  
① BASIS OF DESIGN OR ENGINEER APPROVED MATERIAL/EQUIPMENT HAVING THE SAME PERFORMANCE, MATERIAL AND FEATURES.

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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: A. BROADUS TECH. REVIEW: A. BROADUS DATE: 02/2008	SUB SHEET NO. <b>P2</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER PLUMBING DETAILS BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. <b>176</b> 41,009 PMIS/PKG NO. 61948/110159 SHEET <b>54</b> of 69
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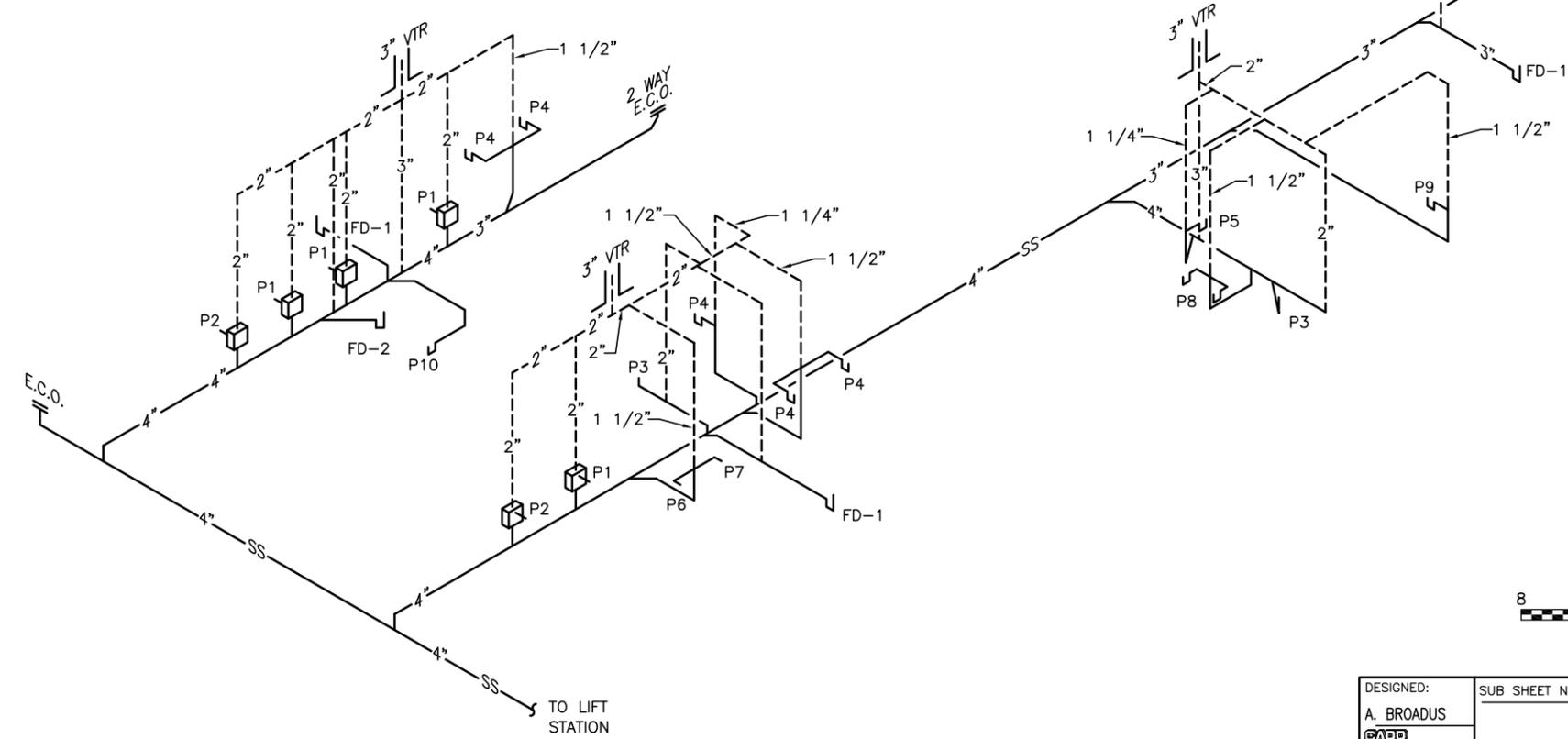


1 PLUMBING FLOOR PLAN, GRAVITY PIPING

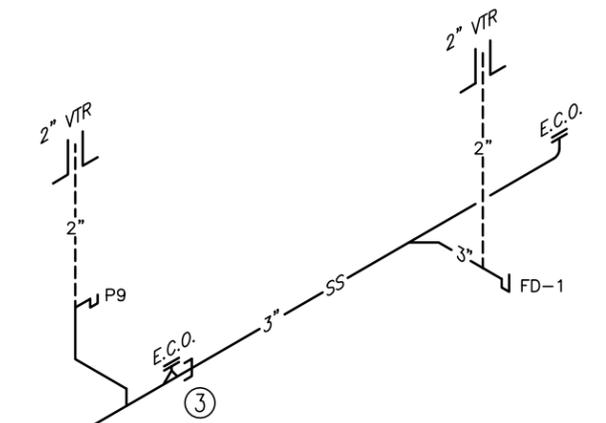
- NOTES:**
- ① REFER TO CIVIL FOR CONTINUATION.
  - ② DOMESTIC WATER ENTRANCE WITH BACKFLOW PREVENTER. SEE DETAIL 8/P2.
  - ③ UNDER SCHEDULE A IF BID OPTION 2 IS NOT AWARDED, PROVIDE CAPPED CLEANOUT IN ACCORDANCE WITH DETAIL 4/P2.

LIFT STATION.  
REFER TO CIVIL.

SCHED. A BID OPTION 2

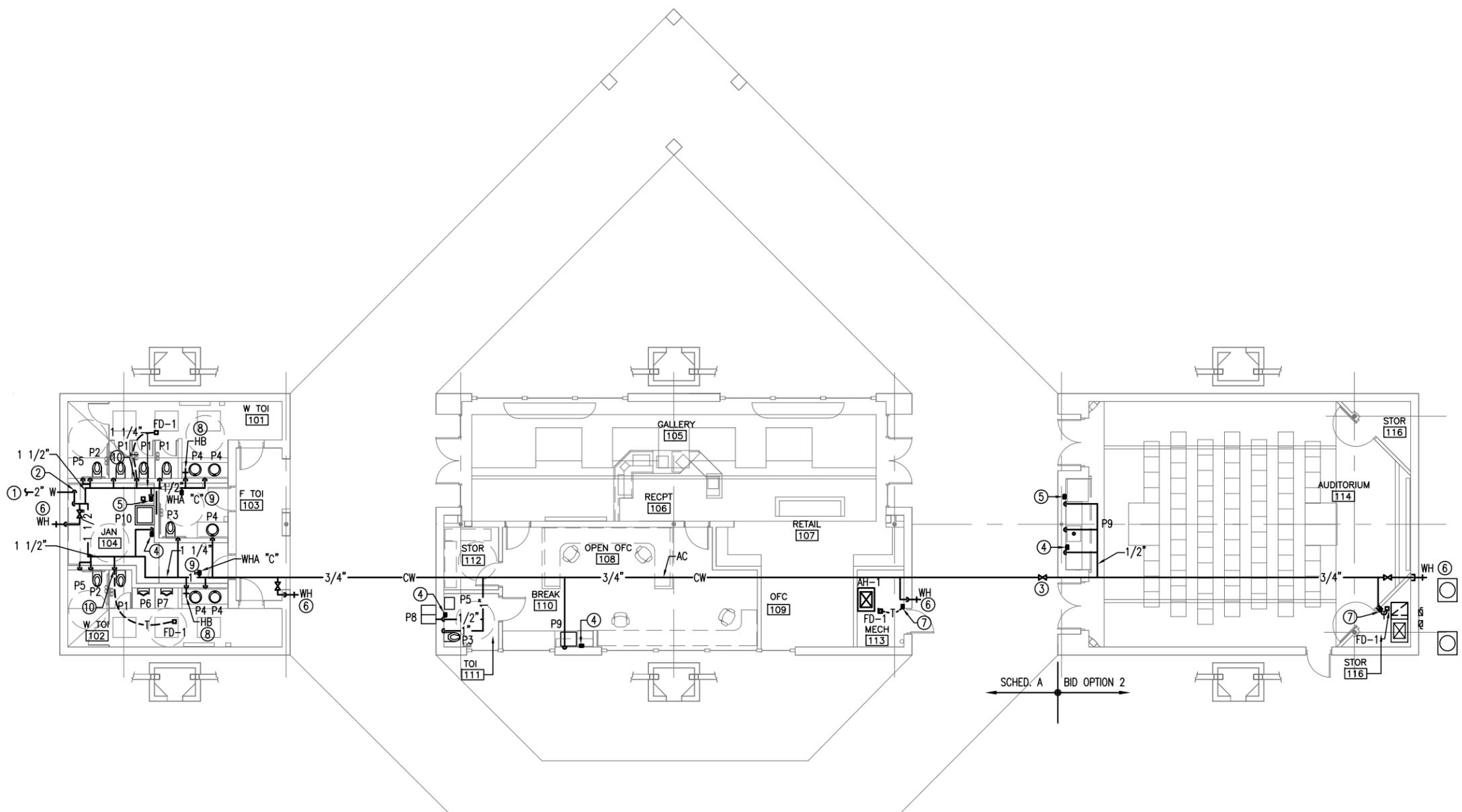


2 GRAVITY PIPING RISER



DESIGNED: A. BROADUS	SUB SHEET NO. <b>P3</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER PLUMBING FLOOR PLAN	DRAWING NO. <b>176</b> 41,009
TECH. REVIEW: A. BROADUS			PMIS/PKG NO. 61948/110159
DATE: 02/2008		BIG CYPRESS NATIONAL PRESERVE	SHEET <b>55</b> of 69

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**NOTES:**

- ① REFER TO CIVIL FOR CONTINUATION.
- ② DOMESTIC WATER ENTRANCE WITH BACKFLOW PREVENTER. SEE DETAIL 8/P2.
- ③ UNDER SCHEDULE A IF BID OPTION 2 IS NOT AWARDED, PROVIDE VALVE AND CAPPED PIPE.
- ④ INSTANTANEOUS ELECTRIC WAER HEATER. SEE DETAIL 7/P2.
- ⑤ 18 GAUGE GALVANIZED STEEL ICE MAKER BOX IN WALL WITH BRASS STOP AND 1/4" COMPRESSION OUTLET. GUY GRAY BIM 875 OR EQUIVALENT.
- ⑥ CLOSE COUPLED WALL HYDRANT WITH VACUUM BREAKER, ROUGH BRASS FINISH, BRASS CONSTRUCTION AND LOOSE KEY. WOODFORD MODEL 84 OR EQUIVALENT.
- ⑦ EXPOSED TRAP PRIMER ON WALL. CONNECT TO FLOOR DRAIN. SEE DETAIL 5/P2.
- ⑧ HOSE BIBB WITH VACUUM BREAKER AND LOOSE KEY. WOODFORD MODEL 24 OR EQUIVALENT.
- ⑨ WATER HAMMER ARRESTOR OF SIZE INDICATED. PROVIDE ACCESS IN CEILING WHERE NOT ACCESSIBLE.
- ⑩ PROVIDE VACUUM BREAKER TRAP PRIMER SLOAN "TP" VARIATION ON FLUSH VALVE COLUMN OR EQUIVALENT.

SCHED. A    BID OPTION 2



**1** PLUMBING FLOOR PLAN  
**P4**

DESIGNED: A. BROADUS	SUB SHEET NO. <b>P4</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER PLUMBING FLOOR PLAN</b>	DRAWING NO. <b>176</b> <b>41,009</b>
TECH. REVIEW: A. BROADUS			PMIS/PKG NO. 61948/110159
DATE: 02/2008		SHEET BIG CYPRESS NATIONAL PRESERVE	<b>56</b> of <b>69</b>

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ROOF LOADS

DEAD LOAD 20 PSF  
LIVE LOAD 20 PSF  
COMPONENTS & CLADDING WIND LOAD - SEE SHEET S2

NOTE: ROOF STRUCTURE HAS BEEN DESIGNED FOR FUTURE PHOTO VOLTAIC SYSTEM WITH LOADS OF NO MORE THAN 5 (FIVE) PSF. COORDINATE ANY REQUIRED ROOF PENETRATION AND MOUNTING STRUCTURE FOR NPS SUPPLIED SYSTEM.

STRUCTURAL INSPECTIONS

THE CONSTRUCTION OF THIS BUILDING TO BE OBSERVED BY A QUALIFIED STRUCTURAL INSPECTOR.

WOOD

ALL WOOD FOR THE PAVILION SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE.

CONCRETE

POURED IN PLACE CONCRETE

- 28 DAY COMPRESSION STRENGTH SHALL CONFORM TO THE FOLLOWING:
  - ALL FOUNDATIONS & BUILDING SLAB ON GRADES \_\_\_\_\_ 4000 PSI
  - I.C.F. WALL FILL \_\_\_\_\_ 4000 PSI
  - MEZZANINE FLOOR DECK \_\_\_\_\_ 4000 PSI
  - PAVILION COLUMNS \_\_\_\_\_ 4000 PSI
  - EXTERIOR & NOT ASSOCIATED WITH SUPER-STRUCTURE OF BUILDING \_\_\_\_\_ 3000 PSI

NOTE: IF THERE IS A CONFLICT BETWEEN THESE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS, ADDRESSING THE SAME ITEM DIFFERENTLY, THEN THE STRUCTURAL DRAWINGS GOVERN.

- I.C.F WALL FILL CONCRETE TO CONSIST OF "PEA GRAVEL MIX" WITH MAX AGGREGATE DIAMETER OF 3/8". SUPERPLASTICIZER SHALL ALSO BE USED WITH I.C.F. WALL FILL.

- CONCRETE SLUMPS SHALL CONFORM TO THE FOLLOWING:

- WITHOUT SUPER PLASTICIZER 4" TO 5 1/2"
- WITH SUPER PLASTICIZER 7" TO 8" I.C.F. WALL FILL
- WITH SUPER PLASTICIZER 6" TO 8" FOUNDATIONS/SLAB ON GRADES

NOTE: SUPER PLASTICIZER IS MANDATORY FOR I.C.F. WALL FILL, HOWEVER IT IS CONTRACTORS OPTION TO USE OR NOT TO USE SUPER P. WITH FOUNDATIONS AND SLAB ON GRADES, SEE ABOVE FOR SLUMPS.

- MECHANICAL VIBRATOR SHALL BE USED WHEN POURING ALL CONCRETE FOR THIS PROJECT, INCLUDING I.C.F. WALL FILL. USE 3/4" MAX DIAMETER VIBRATOR FOR I.C.F. WALL CONCRETE FILL

- ALL CONCRETE WORK SHALL CONFORM TO ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. DESIGN IS BASED ON ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315, DETAILING MANUAL.

- SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

- THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE CONTRACTING OFFICER

- USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

- CHAMFER OR ROUND ALL EXPOSED CORNERS MINIMUM 3/4"

- TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCE DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

- SAW CUT SLAB ON GRADES AS INDICATED IN THESE STRUCTURAL PLANS WITHIN FOUR HOURS AFTER FINAL TROWELING. SAW CUTS SHALL BE 1 1/2" DEEP.

- SEE SPECIFICATIONS FOR CONCRETE TESTING.

CONCRETE REINFORCING

- ALL REINFORCING SHALL BE GRADE 60
- LAP ALL REINFORCING 48 BAR DIAMETERS UNLESS NOTED OTHERWISE
- NO CONC. REINFORCING IS PERMITTED TO BE WELDED UNLESS PERMISSION IS GIVEN IN WRITING BY CONTRACTING OFFICER
- CORNER BARS SHALL BE PROVIDED FOR ALL HORIZONTAL BARS IN I.C.F. WALLS AND MONOLITHIC TURN-DOWN FOOTINGS EACH LEG SHALL BE 48 BAR DIAMETERS LONG.

CONCRETE CLEAR COVER TO REINFORCING:	
• CAST AGAINST EARTH _____	3"
• EXPOSED TO EARTH & WEATHER BUT NOT CAST AGAINST EARTH _____	2 1/2"
• NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND _____	1"
• BEAMS, COLUMNS, PRIMARY REINFORCING TIES _____	2"

CODE & WIND DESIGN :

- CODE - 2004 FLORIDA BUILDING CODE
- BASIC WIND SPEED - 140 MPH, 3 SEC. GUST
- SEE SHEET S2 FOR COMPONENT & CLADDING WIND LOADS
- WIND IMPORTANCE FACTOR = 1.0
- WIND EXPOSURE CATEGORY - C
- INTERNAL PRESSURE COEFFICIENT - ± 0.18
- FEMA FLOOD ZONE - AE
- FEMA BASE FLOOD ELEVATION 7.3 ft NGVD, 6.0 ft NAVD
- TOP OF BUILDING SLAB SHALL BE ABOVE FEMA BASE FLOOD ELEVATION
- IMPACT RESISTANT DOORS & WINDOWS SHALL BE USED FOR THIS BUILDING PER FLORIDA BUILDING CODE REQUIREMENTS.

FOUNDATIONS:

- ALL FOUNDATION SOIL PREPARATION SHALL CONFORM TO THE GEOTECHNICAL REPORT BY ALLIED ENGINEERING & TESTING, INC. DATED OCTOBER 30, 2003.
- BUILDING MONOLITHIC TURN-DOWN FOOTINGS & ISOLATED COLUMN FOOTINGS HAVE BEEN DESIGNED FOR LESS THAN THE MAX. SOIL BEARING PRESSURE OF 2500 PSF & 2000 PSF RESPECTIVELY, PER THE REPORT REFERENCED ABOVE.

STEEL:

- STEEL DESIGN BASED ON AISC MANUAL OF STEEL CONSTRUCTION. ALL STEEL CONSTRUCTION & CONNECTION DETAILS NOT SHOWN SHALL CONFORM TO AISC.
- ALL STRUCTURAL STEEL TO BE ASTM A36 MIN.
- ALL STEEL TO STEEL BOLTS TO BE A325
- ALL WELDS & WELDING SHALL BE IN ACCORDANCE WITH PROVISIONS OF AISC & AWS WELDING.
- ALL WELDERS MUST BE CERTIFIED
- FOR ALL STEEL UNLESS NOTED OTHERWISE PROVIDE ONE COAT OF RED OXIDE PRIMER
- FOR ALL STEEL UNLESS NOTED OTHERWISE OVER BREEZEWAYS AND IN SOFFITS, AND OTHERWISE EXPOSED TO ENVIRONMENT AIR, STEEL SHALL BE COATED WITH RUST PREVENTATIVE PAINT IN ADDITION TO PRIMER. ALSO PRIME & PAINT OVER WELDS.

INSULATING CONCRETE FORMS (ICF)

ICF MATERIAL SHALL CONSIST OF THE FOLLOWING:

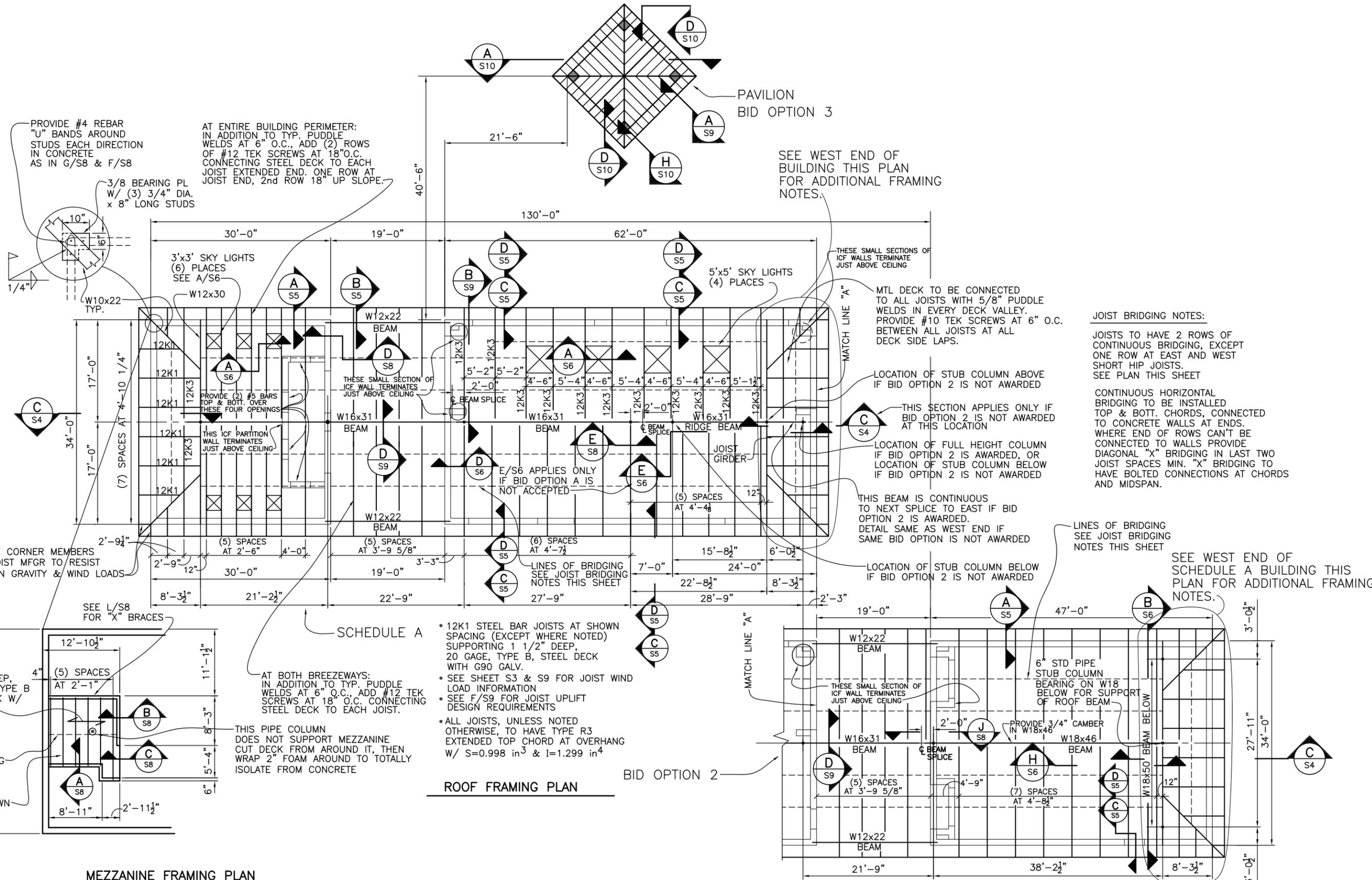
- 2 1/2" MINIMUM THICKNESS OF POLYSTYRENE INSULATION EACH SIDE WITH 6" MINIMUM CONCRETE CORE CAVITY. SEE SPECIFICATIONS ALSO.
- PERIMETER WALLS SHALL BE CONSTRUCTED & POURED IN TWO LIFTS, THE GABLES OF THE SHEAR WALLS WILL BE ERECTED & POURED IN 3rd LIFT, LAP ALL REINFORCING 48 BAR DIAMETERS THROUGH LIFT JOINTS, SEE ALSO S7
- PROVIDE CORNER BARS WITH 48 BAR DIA. LEGS AT ALL CORNERS, FOR HORIZONTAL REINFORCING ONE EACH DIRECTION AT "T" WALLS.
- POURED CONCRETE USING ICF FORMS SHALL CONFORM TO ACI 318, 301 & 315

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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GPK GPK	SUB SHEET NO.  <b>S1</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER STRUCTURAL NOTES</b>	DRAWING NO. <b>176</b> <b>41,009</b>
Killam Engineering, Inc. 2351 W. State Line Rd. Century, FL 32535 (850) 256-2100 FL CA 26194	TECH. REVIEW: GPK			PMIS/PKG NO. 61948/110159
DATE: 02/2008			BIG CYPRESS NATIONAL PRESERVE	SHEET <b>57 of 69</b>



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PROVIDE #4 REBAR "U" BANDS AROUND STUDS EACH DIRECTION IN CONCRETE AS IN G/S8 & F/S8

AT ENTIRE BUILDING PERIMETER: IN ADDITION TO TYP. PUDDLE WELDS AT 6" O.C., ADD (2) ROWS OF #12 TEK SCREWS AT 18" O.C. CONNECTING STEEL DECK TO EACH JOIST EXTENDED END. ONE ROW AT JOIST END, 2nd ROW 18" UP SLOPE.

3/8 BEARING PL W/ (3) 3/4" DIA. x 8" LONG STUDS

3'x3' SKY LIGHTS (6) PLACES SEE A/S6

PAVILION BID OPTION 3

SEE WEST END OF BUILDING THIS PLAN FOR ADDITIONAL FRAMING NOTES.

THESE SMALL SECTIONS OF ICF WALLS TERMINATE JUST ABOVE CEILING

MTL DECK TO BE CONNECTED TO ALL JOISTS WITH 5/8" PUDDLE WELDS IN EVERY DECK VALLEY. PROVIDE #10 TEK SCREWS AT 6" O.C. BETWEEN ALL JOISTS AT ALL DECK SIDE LAPS.

**JOIST BRIDGING NOTES:**

JOISTS TO HAVE 2 ROWS OF CONTINUOUS BRIDGING, EXCEPT ONE ROW AT EAST AND WEST SHORT HIP JOISTS. SEE PLAN THIS SHEET

CONTINUOUS HORIZONTAL BRIDGING TO BE INSTALLED TOP & BOTT. CHORDS, CONNECTED TO CONCRETE WALLS AT ENDS. WHERE END OF ROWS CAN'T BE CONNECTED TO WALLS PROVIDE DIAGONAL "X" BRIDGING IN LAST TWO JOIST SPACES MIN. "X" BRIDGING TO HAVE BOLTED CONNECTIONS AT CHORDS AND MIDSPAN.

LOCATION OF STUB COLUMN ABOVE IF BID OPTION 2 IS NOT AWARDED

THIS SECTION APPLIES ONLY IF BID OPTION 2 IS NOT AWARDED AT THIS LOCATION

LOCATION OF FULL HEIGHT COLUMN IF BID OPTION 2 IS AWARDED, OR LOCATION OF STUB COLUMN BELOW IF BID OPTION 2 IS NOT AWARDED

THIS BEAM IS CONTINUOUS TO NEXT SPLICE TO EAST IF BID OPTION 2 IS AWARDED. DETAIL SAME AS WEST END IF SAME BID OPTION IS NOT AWARDED

LINE OF BRIDGING SEE JOIST BRIDGING NOTES THIS SHEET

SEE WEST END OF SCHEDULE A BUILDING THIS PLAN FOR ADDITIONAL FRAMING NOTES.

LOCATION OF STUB COLUMN BELOW IF BID OPTION 2 IS NOT AWARDED

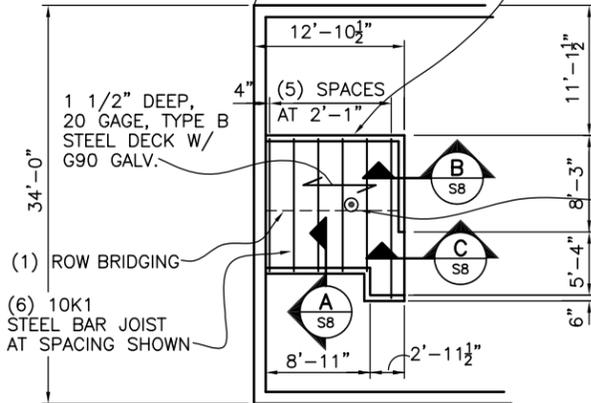
- SCHEDULE A**
- 12K1 STEEL BAR JOISTS AT SHOWN SPACING (EXCEPT WHERE NOTED) SUPPORTING 1 1/2" DEEP, 20 GAGE, TYPE B, STEEL DECK WITH G90 GALV.
  - SEE SHEET S3 & S9 FOR JOIST WIND LOAD INFORMATION
  - SEE F/S9 FOR JOIST UPLIFT DESIGN REQUIREMENTS
  - ALL JOISTS, UNLESS NOTED OTHERWISE, TO HAVE TYPE R3 EXTENDED TOP CHORD AT OVERHANG W/ S=0.998 in<sup>3</sup> & I=1.299 in<sup>4</sup>

AT BOTH BREEZEWAYS: IN ADDITION TO TYP. PUDDLE WELDS AT 6" O.C., ADD #12 TEK SCREWS AT 18" O.C. CONNECTING STEEL DECK TO EACH JOIST.

THIS PIPE COLUMN DOES NOT SUPPORT MEZZANINE CUT DECK FROM AROUND IT, THEN WRAP 2" FOAM AROUND TO TOTALLY ISOLATE FROM CONCRETE

**ROOF FRAMING PLAN**

**MEZZANINE FRAMING PLAN**

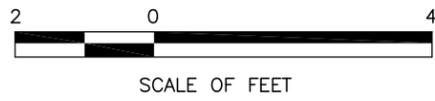
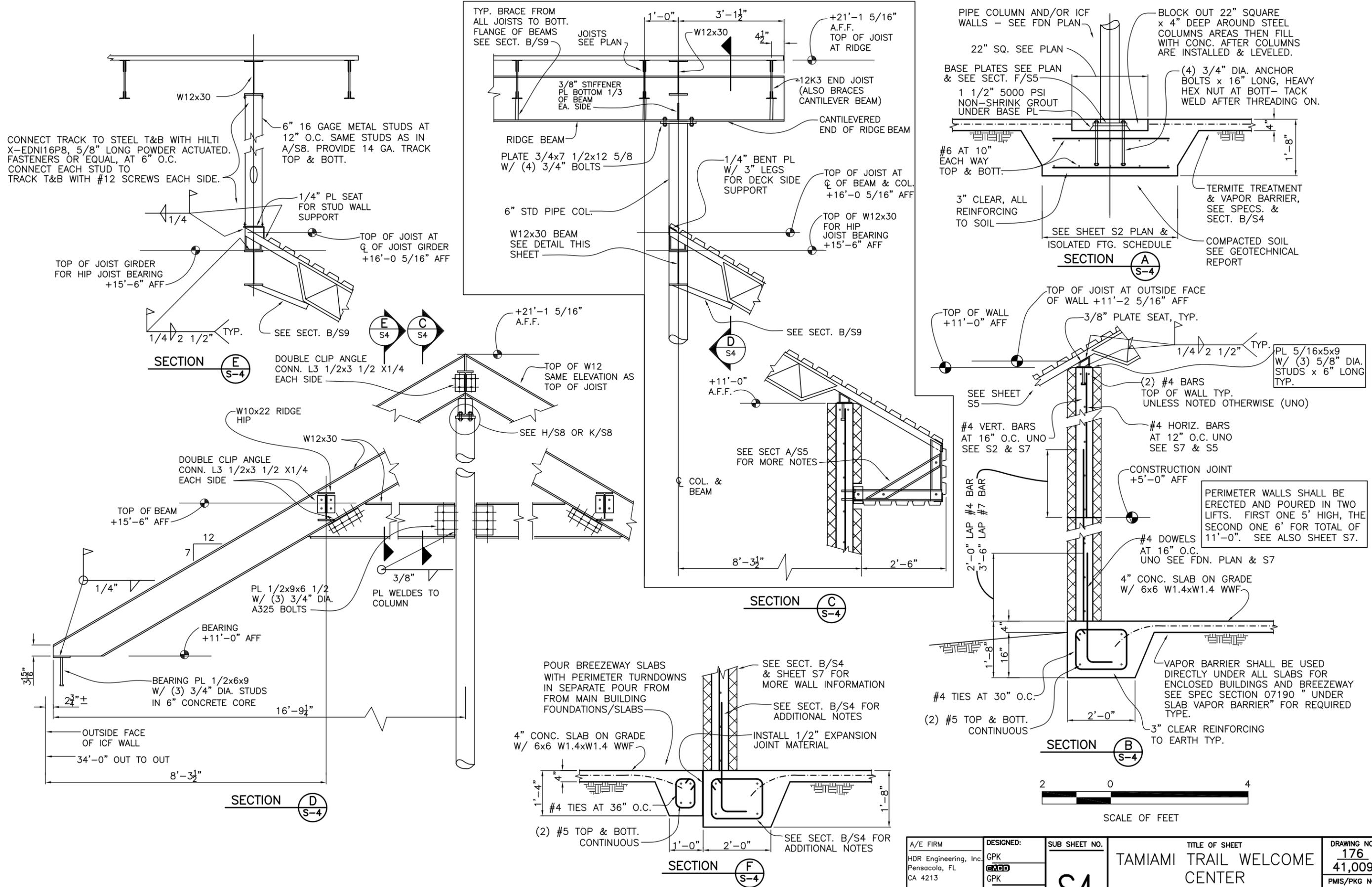


- (1) ROW BRIDGING
- (6) 10K1 STEEL BAR JOIST AT SPACING SHOWN

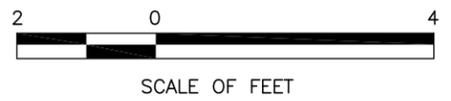
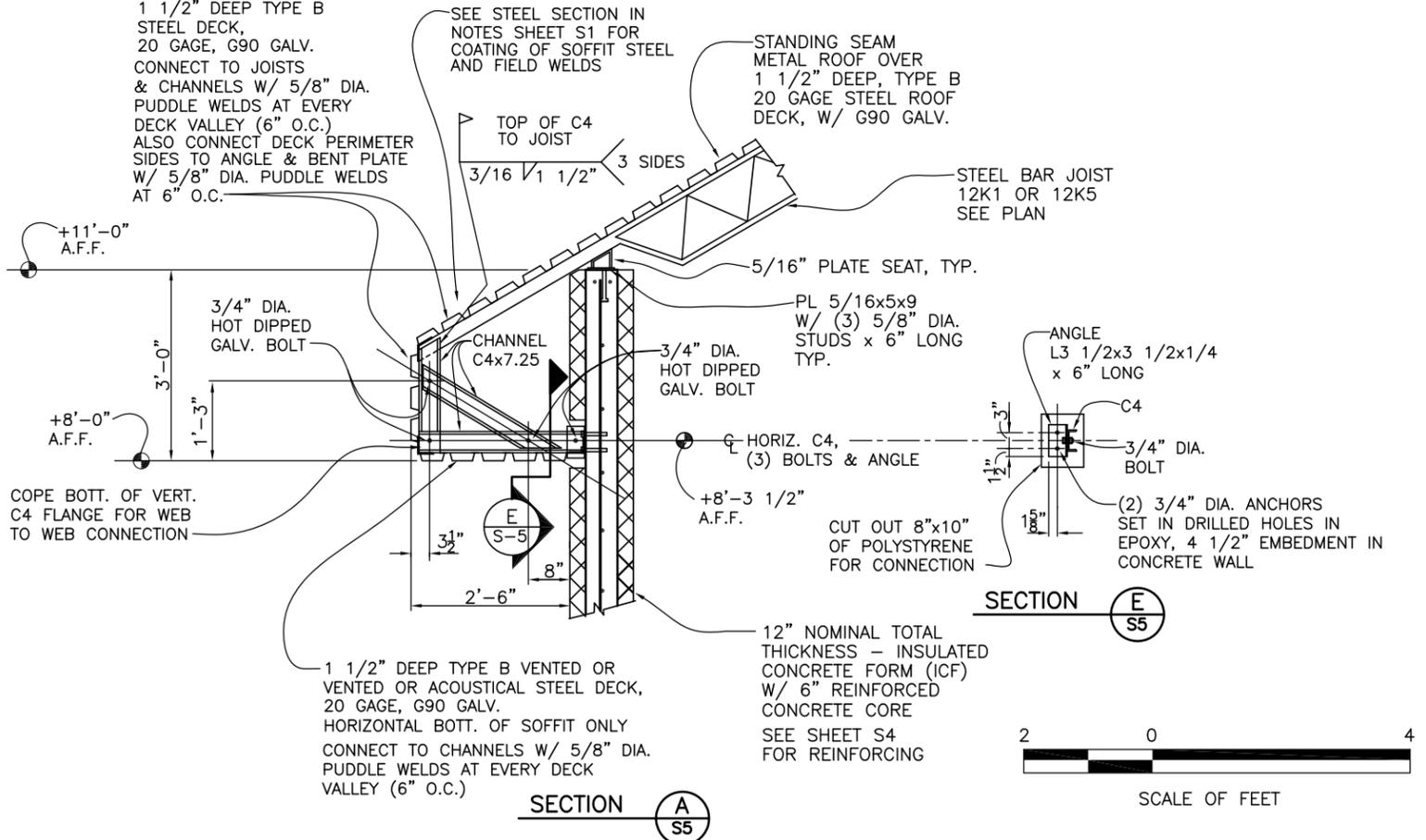
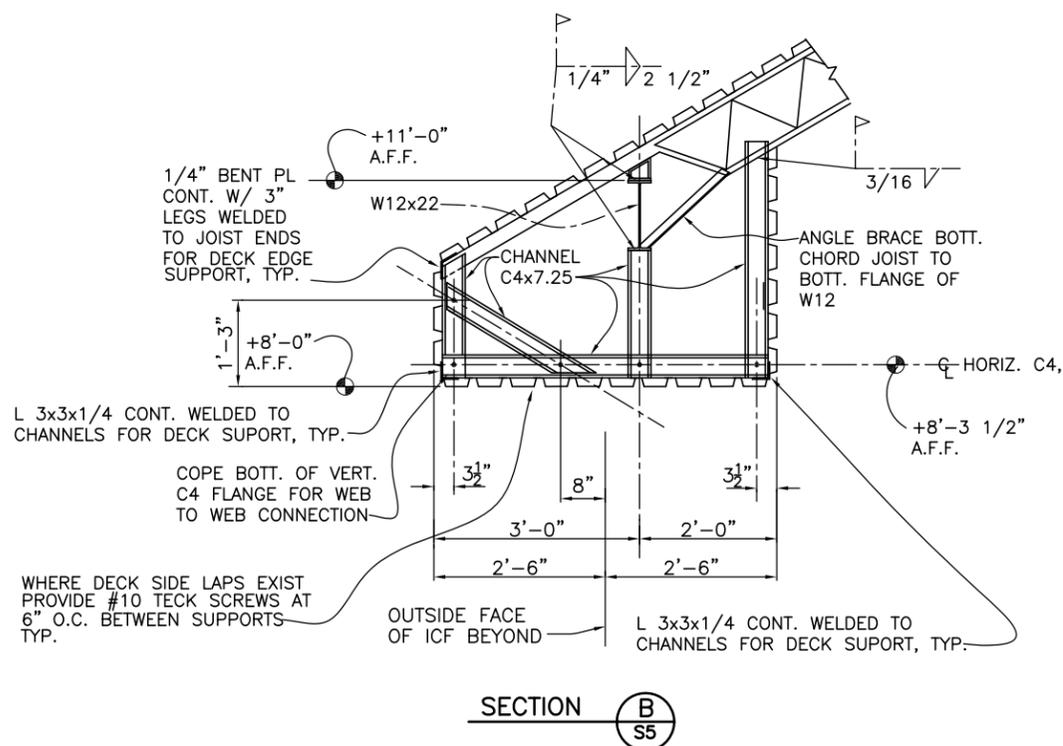
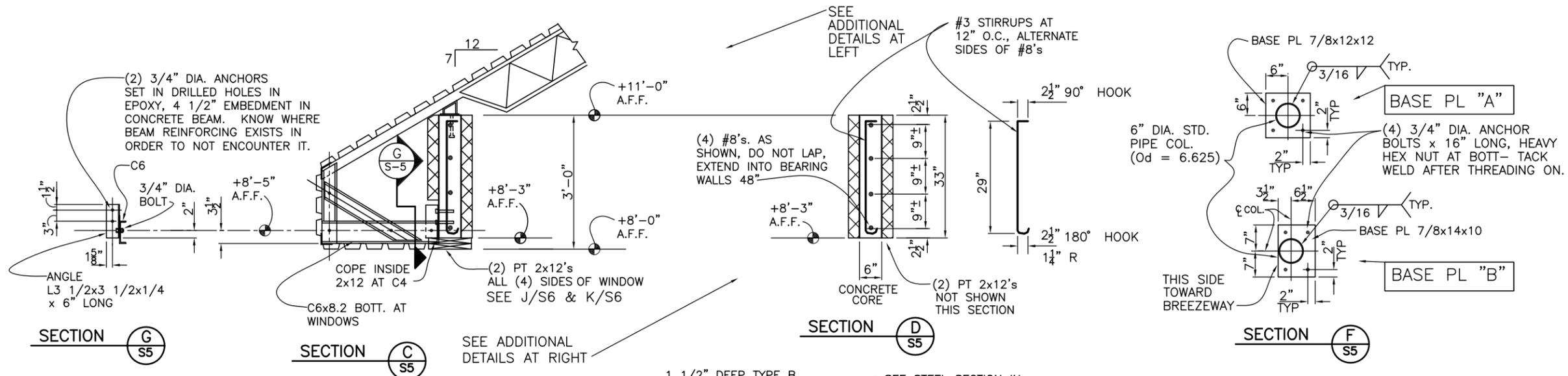


A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GPK GADD GPK	SUB SHEET NO. <b>S3</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER ROOF FRAMING PLAN</b>	DRAWING NO. <b>176 41,009</b>
Killam Engineering, Inc. 2351 W. State Line Rd. Century, FL 32535 (850) 256-2100 FL CA 26194	TECH. REVIEW: GPK	DATE: 05/2008	BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159 SHEET <b>59 of 69</b>

1/25/08 13:23 MPRITCHETT R17 P:\BICY\110159\1600\STRUC\S4.DWG

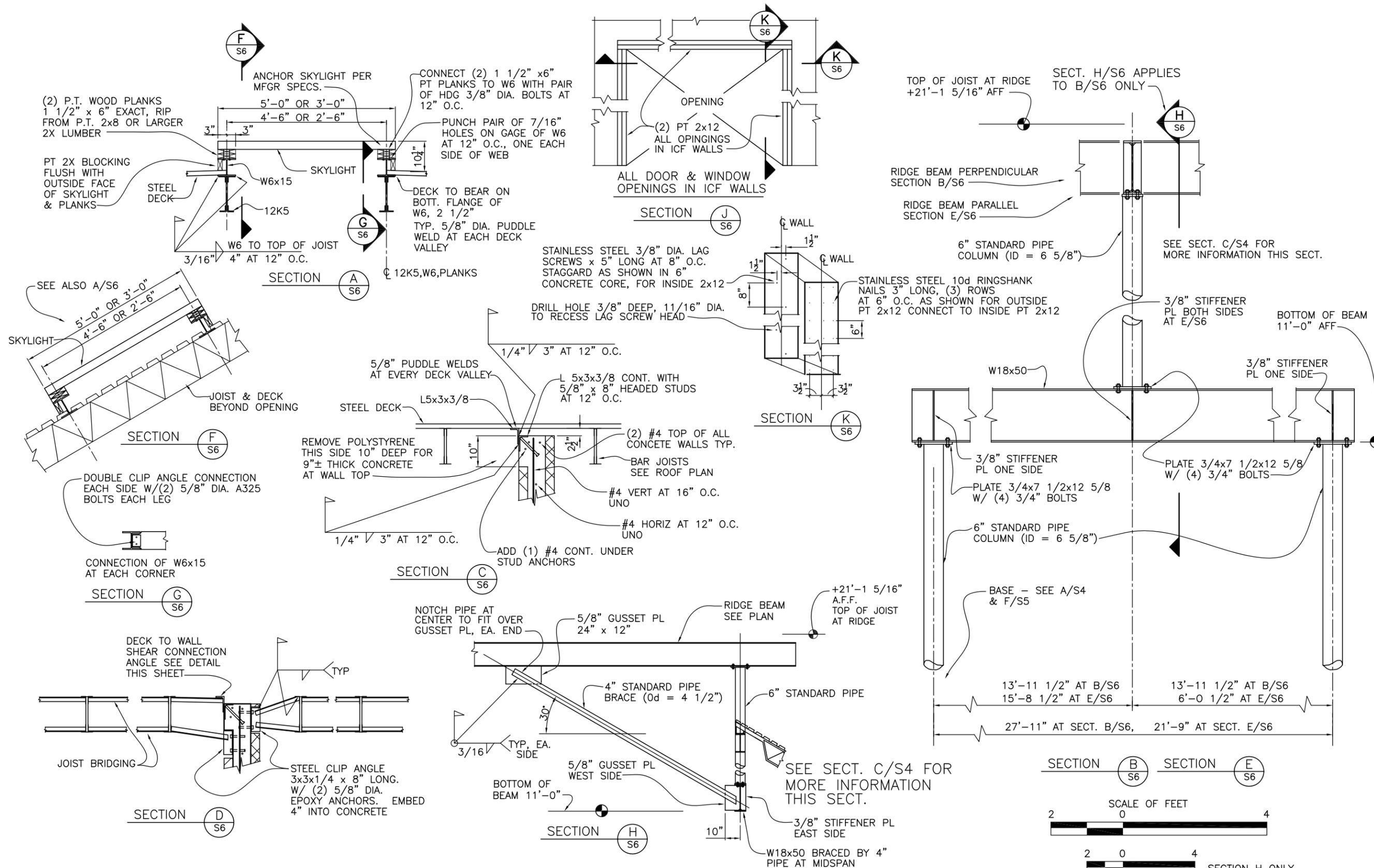


A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GPK GPK	SUB SHEET NO. <b>S4</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER FOUNDATION/WALL DETAILS</b>	DRAWING NO. <b>176 41,009</b>
Killam Engineering, Inc. 2351 W. State Line Rd. Century, FL 32635 (850) 256-2100 FL CA 26194	TECH. REVIEW: GPK	DATE: 02/2008	BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159
				SHEET <b>60 of 69</b>



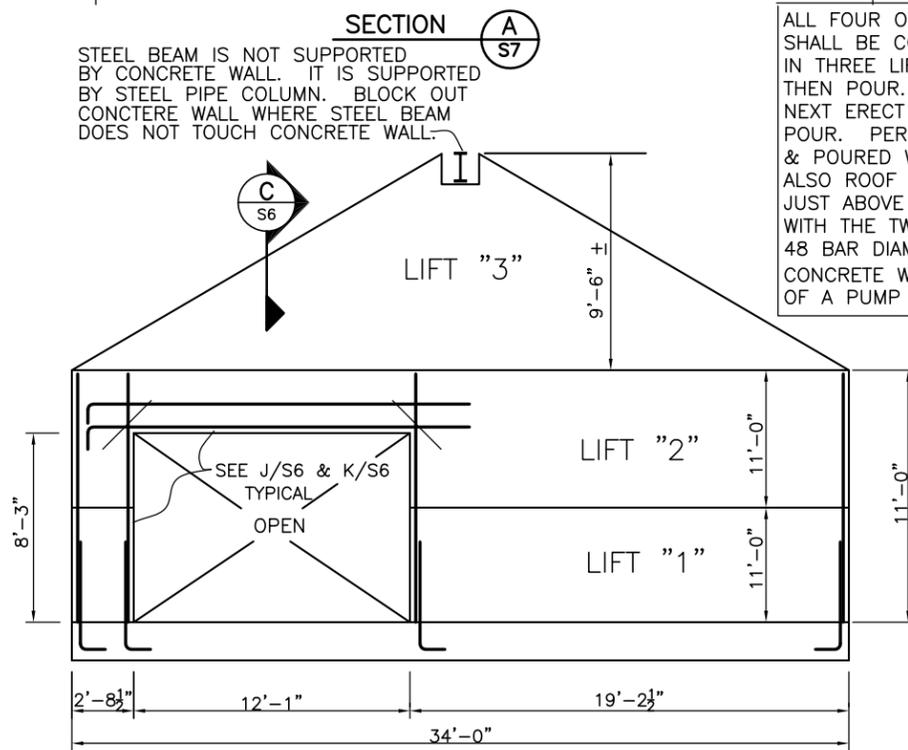
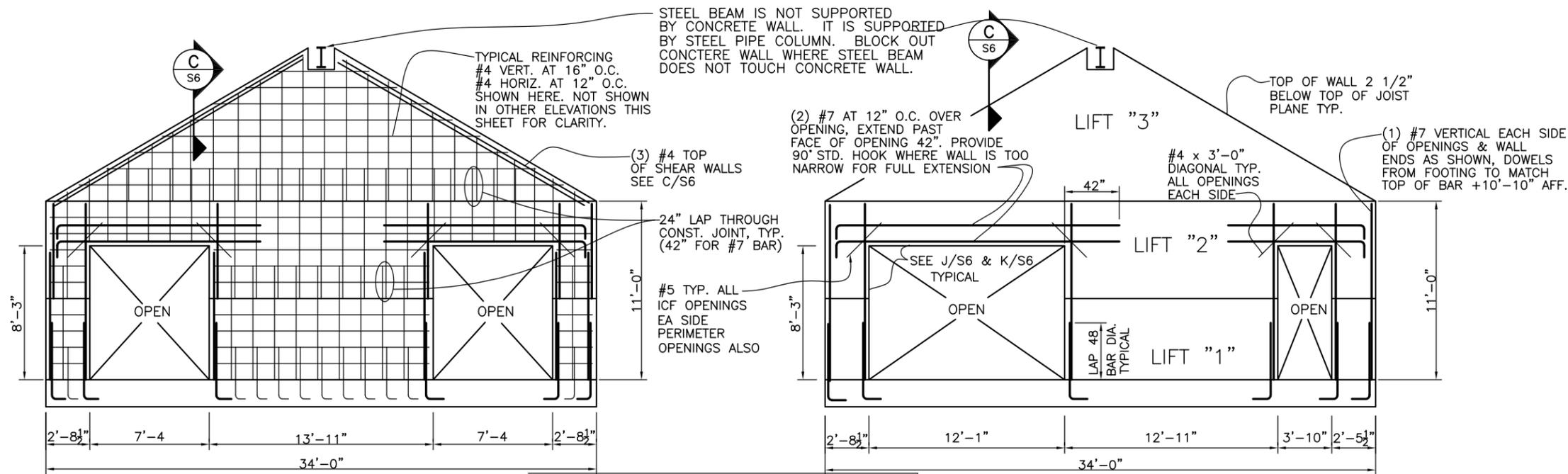
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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GPK GPK	SUB SHEET NO. <b>S5</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER ROOF/STEEL DETAILS</b>	DRAWING NO. <b>176 41,009</b>
Killam Engineering, Inc. 2351 W. State Line Rd. Century, FL 32535 (850) 256-2100 FL CA 26194	TECH. REVIEW: GPK	DATE: 02/2008	BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159 SHEET <b>61 of 69</b>

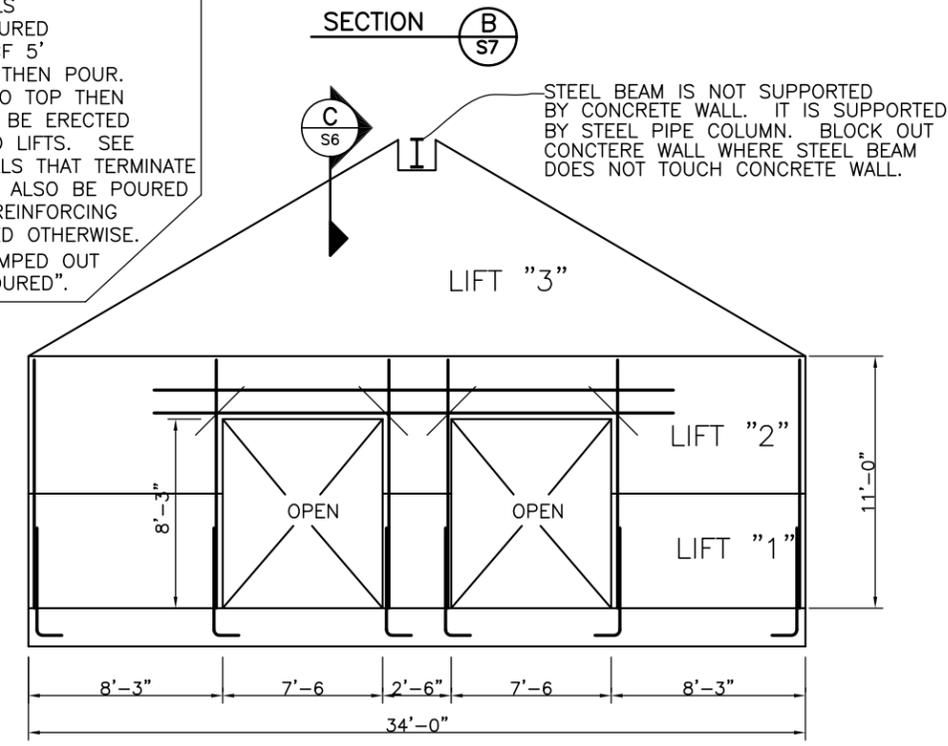


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A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GPK	SUB SHEET NO. <b>S6</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER ROOF/STEEL DETAILS</b>	DRAWING NO. <b>176 41,009</b>
	KILLAM ENGINEERING, INC. 2351 W. STATE LINE RD. CENTURY, FL 32535 (850) 256-2100 FL CA 26194			TECH. REVIEW: GPK
	DATE: 02/2008		BIG CYPRESS NATIONAL PRESERVE	SHEET <b>62 of 69</b>



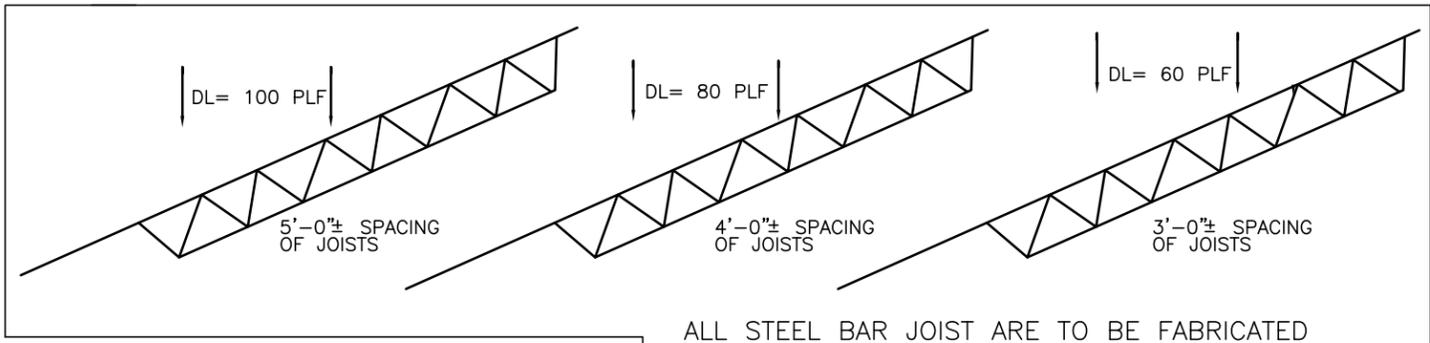
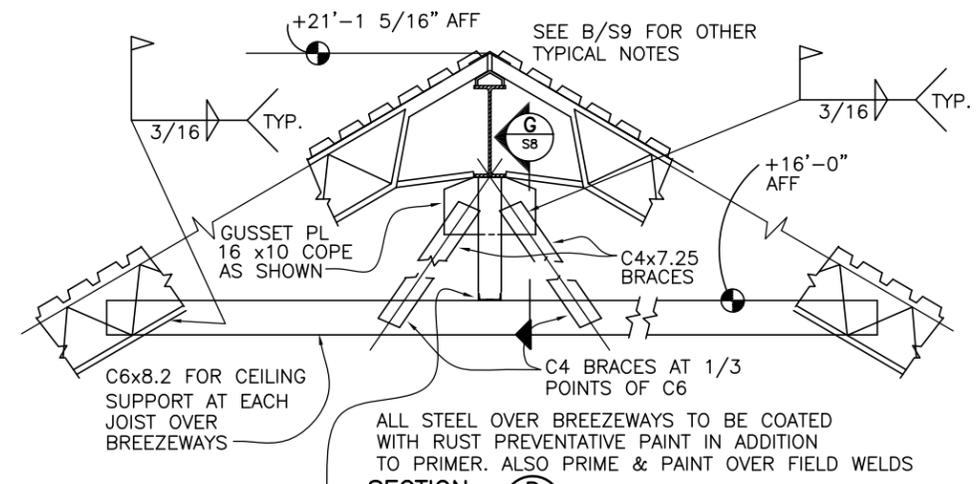
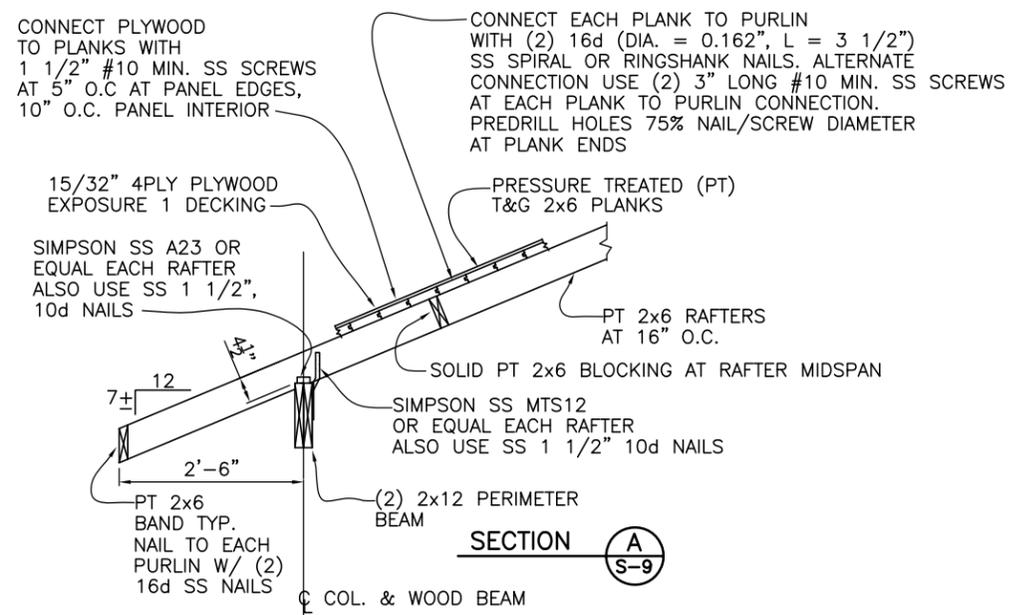
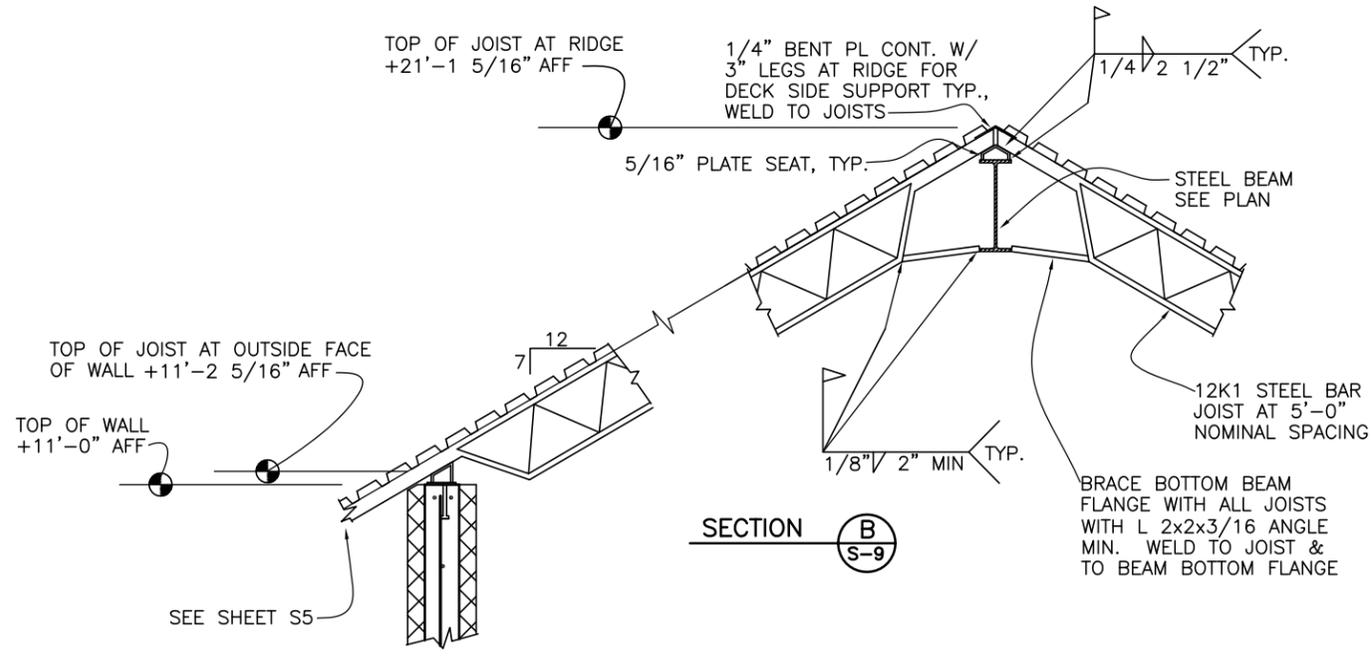
ALL FOUR OF THESE SHEAR WALLS SHALL BE CONSTRUCTED AND POURED IN THREE LIFTS. FIRST ERECT ICF 5' THEN POUR. NEXT ERECT ICF 6' THEN POUR. NEXT ERECT GABLES FROM 11' TO TOP THEN POUR. PERIMETER WALLS SHALL BE ERECTED & POURED WITH SAME FIRST TWO LIFTS. SEE ALSO ROOF PLAN FOR SOME WALLS THAT TERMINATE JUST ABOVE CEILING. THESE WILL ALSO BE POURED WITH THE TWO LIFTS. LAP ALL REINFORCING 48 BAR DIAMETERS UNLESS NOTED OTHERWISE. CONCRETE WILL ACTUALLY BE PUMPED OUT OF A PUMP TRUCK AND NOT "POURED".



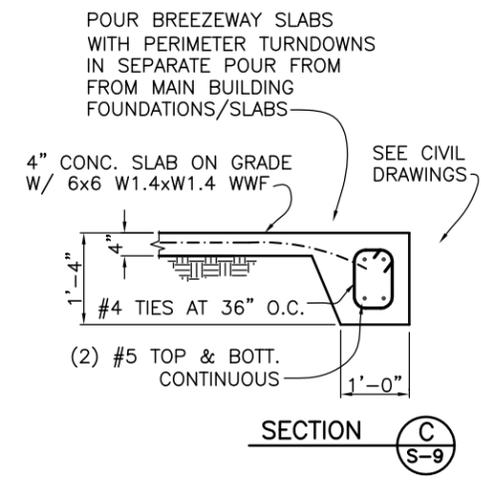
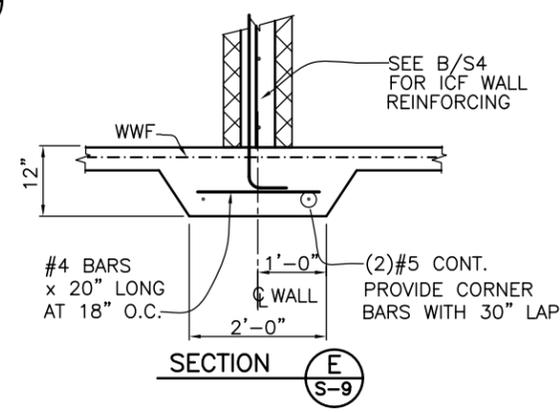
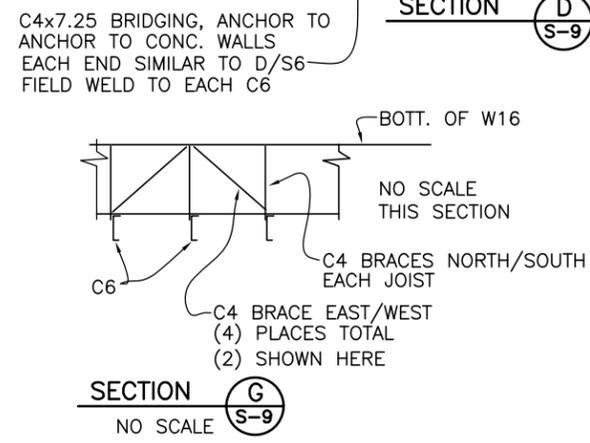
1/25/08 13:26 MPRICHTT R17 P:\BIC\110159\1602\STRUC\S7.DWG

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GPK GPK	SUB SHEET NO. <b>S7</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER ICF WALL ELEVATIONS	DRAWING NO. 176 41,009
Killam Engineering, Inc. 2351 W. State Line Rd. Century, FL 32535 (850) 256-2100 FL CA 26194	TECH. REVIEW: GPK	DATE: 02/2008	BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159 SHEET 63 of 69





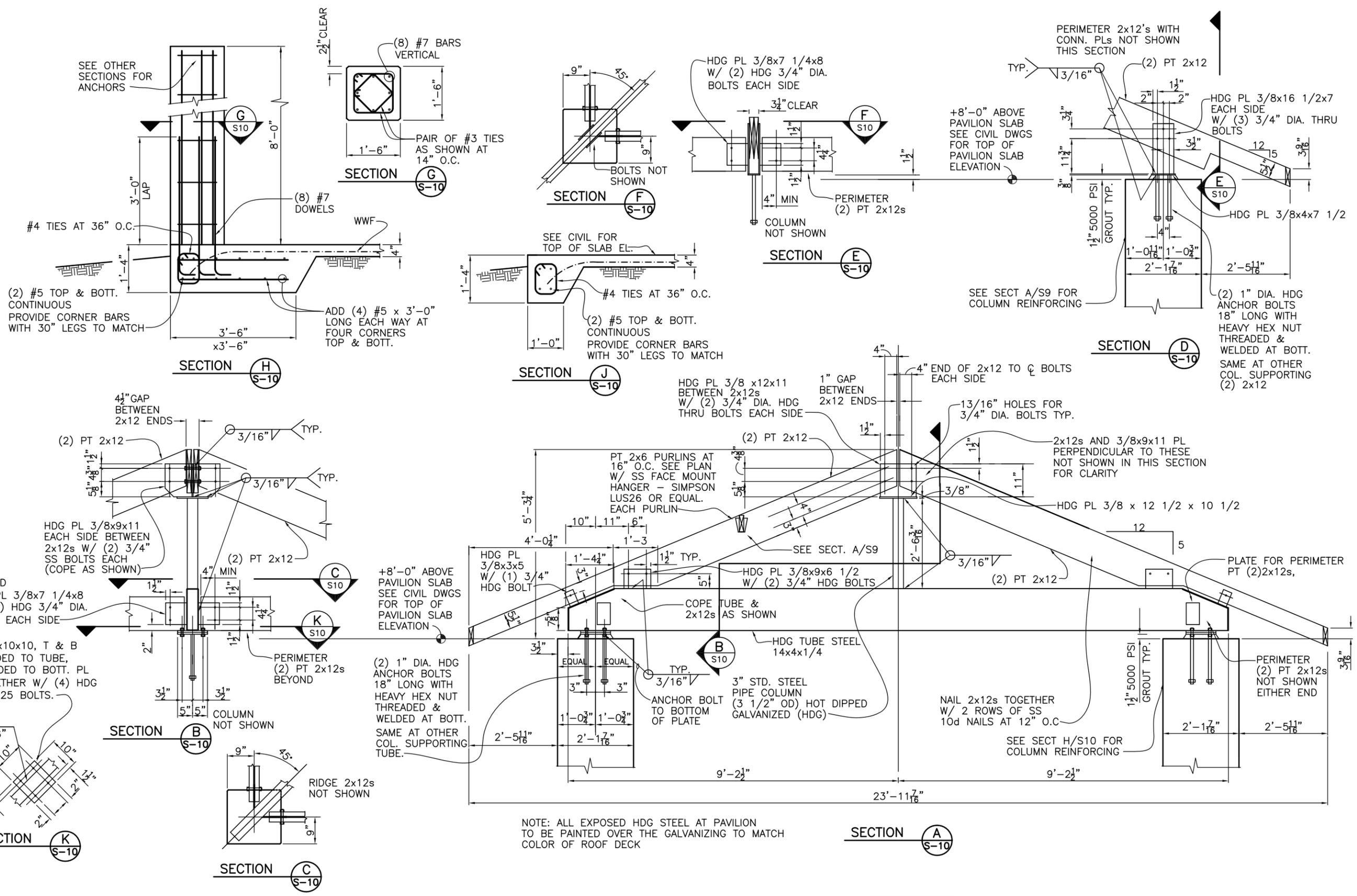
ALL STEEL BAR JOIST ARE TO BE FABRICATED TO RESIST THE FOLLOWING UPLIFT LOAD:  
 $(0.6 \times \text{DEAD LOAD}) + \text{WIND LOAD} = \text{NET UPLIFT}$   
 SEE WIND PRESSURE COMPONENTS & CLADDING MAPS & TABLES ON SHEET S2  
 FOR MOST BAR JOIST LOADING, THE NET UPLIFT EXCEEDS THE GRAVITY LOAD IN MAGNITUDE.



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GPK	SUB SHEET NO. <b>S9</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER DETAILS</b>	DRAWING NO. <b>176</b> <b>41,009</b>
	TECH. REVIEW: GPK			PMIS/PKG NO. 61948/110159
Killam Engineering, Inc. 2351 W. State Line Rd. Century, FL 32535 (850) 256-2100 FL CA 26194	DATE: 02/2008		BIG CYPRESS NATIONAL PRESERVE	SHEET <b>65</b> of <b>69</b>

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1/25/08 13:33 MPRITCHETT R17 P:\BICY\110159\1600\STRUC\S10.DWG



NOTE: ALL EXPOSED HDG STEEL AT PAVILION TO BE PAINTED OVER THE GALVANIZING TO MATCH COLOR OF ROOF DECK

A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: GPK GPK	SUB SHEET NO. <b>S10</b>	TITLE OF SHEET <b>TAMIAMI TRAIL WELCOME CENTER DETAILS</b>	DRAWING NO. <b>176 41,009</b>
Killam Engineering, Inc. 2351 W. State Line Rd. Century, FL 32535 (850) 256-2100 FL CA 26194	TECH. REVIEW: GPK	DATE: 02/2008	BIG CYPRESS NATIONAL PRESERVE	PMIS/PKG NO. 61948/110159
				SHEET <b>66 of 69</b>



## LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER AND CATALOG No.	LAMPS		MOUNTING	REMARKS
		No.	TYPE		
FS	METALUX SS-232-EB-WG	2	F32	PENDANT	①②⑦
FT	LITHONIA SP-F-232-RW-A12125-120-GE8	2	F32	RECESSED (FLANGE)	①
FT2	LITHONIA 2SP8G-232-RW-A12125-120-1/2-GE8	2	F32	RECESSED	①
FT24E	LITE CONTROL PID-59-12-24-T8-PBCWM-TCWM-ELB-EM	12 IN CROSS SECTION	F32	PENDANT ⑥	①③④
FT28	LITE CONTROL PID-59-14-28-T8-PBCWM-TCWM-ELB	14	F32	PENDANT ⑥	①⑤
FB4	LITHONIA WC232-A12-120-GE8	2	F32	WALL	①
RFD	LITHONIA AF2-32TRT-8-MB-120-DMHL	2	32 TRT	RECESSED	①⑦
RFDA	LITHONIA AF1-32TRT-6-MB-120-DMH	1	32 TRT	RECESSED	①⑦
RF	LITHONIA AFS2-TRT-8-AR-120	2	32 TRT	RECESSED	①
RFS	LITHONIA AFS1-TRT-6-AR-120-SC	1	32 TRT	RECESSED	①
F2	LITHONIA (PEERLESS) L5R9-G(FLANGE KIT)-1-14T5-LDL-U2-120-GE810	1	14W T5	RECESSED	①
WB	LITHONIA VGR1-2/26-120-DSST	2	26 TRT	WALL (10'-0" FLOOR TO CENTERLINE)	①
BP	SURELITE CU-1-NC	FURNISHED		WALL (8'-0" FLOOR TO BOTTOM OF UNIT)	①
BPA	LITHONIA ELU4X	FURNISHED		WALL (7'-6" FLOOR TO BOTTOM OF UNIT)	①
⊗	SURELITE CCX-6-NICAD-WH	LED		WALL OR CEILING AS INDICATED	①⑦
SA	LITHONIA VGR1-2/26-120-DSST	2	26 TRT	SURFACE	①
BL	LITHONIA KBA8-70M-LV-120	1	70W MH	SEE DETAIL	①
RH2	LITHONIA ELA-W-T-NV	2	12W 12 VOLT	WALL (10'-0" FLOOR TO CENTERLINE)	①
FL	LITHONIA TCF-2/13TT-120	2	13 DTT	WALL NOMINAL 8'-0" AFF MOUNT ON EDGE OF STRUCTURAL BEAM	①
TL18	LITHONIA LTC SERIES TRACK NOMINAL 18' LENGTH (SEE DRAWING FOR CONFIGURATION)	SEE REMARKS			⑧
FPL	KIM KNCFL1-50DB/KN-CFLFH-DB	1	50W MH	GROUND. PROVIDE NOMINAL 12"x24" CONCRETE FOUNDATION	①

- ① 120 VOLT
- ② PROVIDE WITH WIRE GUARD
- ③ PROVIDE 1-1400 LUMEN EMERGENCY UNIT BATTERY
- ④ NOMINAL 24' LONG
- ⑤ NOMINAL 28' LONG
- ⑥ AIRCRAFT CABLE SUSPENSION NOMINAL 16" LENGTH (FIELD ADJUSTABLE 12"-24")
- ⑦ PROVIDE WITH WIREGUARD
- ⑧ PROVIDE 9-GMBR WH SERIES TRACK HEADS EACH WITH 50W MR16 LAMP

### GENERAL NOTES

- ALL LIGHTING FIXTURES SHALL BE UL LISTED (OR EQUIVALENT) AND SHALL BE FEMP DESIGNATED OR ENERGY STAR.
- EXIT LIGHTS SHALL BE UL924 LISTED.
- MANUFACTURERS AND CATALOG NUMBERS INDICATED ARE TO ESTABLISH TYPE AND QUALITY. EQUIVALENT FIXTURES BY OTHER MANUFACTURERS WILL BE ACCEPTABLE.

120/240 VOLT 1Ø 3W SURFACE MOUNTED 400 AMP MAIN BREAKER SCHEDULE PANEL MP								
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA	BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP		AMP	POLE		
1	PANEL L1	2	100	27.78	6.9	50	2	COND. UNIT CU-1 ①
3								4
5	ICE MACHINE	2	20	2.5	5.8	35	2	AH-1 ①
7								8
9	INSTANT. WATER HEATER	1	30	3.0	6.9	50	2	COND. UNIT CU-2 ①②
11	SPARE							12
13	HAND DRYER WOMENS			1.5	5.8	35	2	AH-2 ①②
15	RECEPT. WOMENS/JAN.			.36				14
17	HAND DRYER FAM. TLT.			1.5	.36	20	1	RECEPT. BREEZEWAY
19	HAND DRYER MENS			1.5	.6			EWC BREEZEWAY
21	RECEPT. MENS TOILET			.36	5.0	40	2	LIFT STATION
23	LIGHTING			.8				22
25				.6		20	1	SPACE
27	EXTERIOR			.8				24
29				.6				26
31				.2				28
33	RECEPT. PAVILLION			.36				30
35	SPARE							32
37								34
39								36
41								38
								40
								42

MAXIMUM LOAD: 73.22 KVA  
 MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL  
 ① HACR CIRCUIT BREAKER. VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED  
 ② SPARE UNDER BID OPTION 2

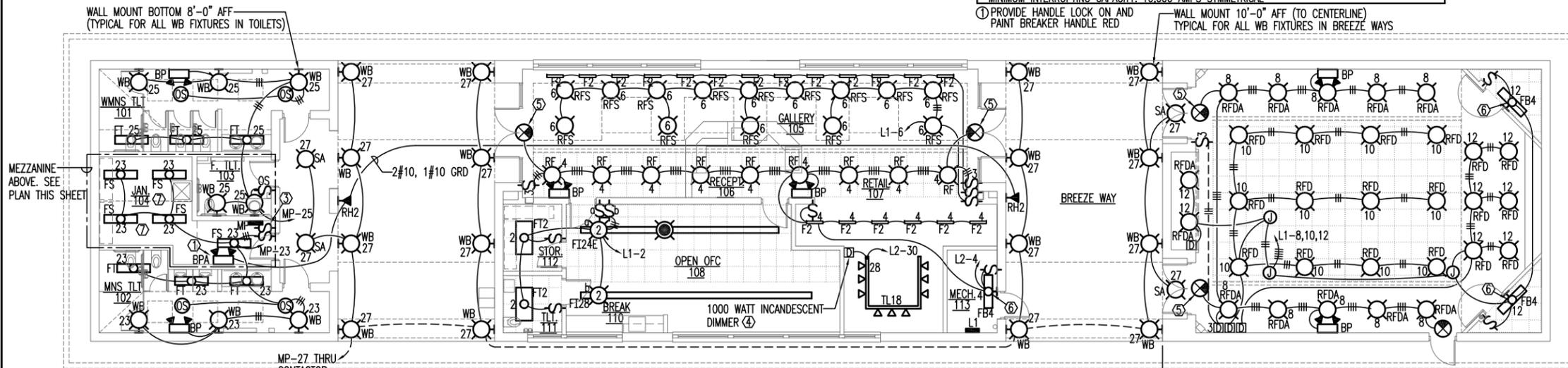
120/240 VOLT 1Ø 3W SURFACE MOUNTED 100 AMP MAIN BREAKER SCHEDULE PANEL L1								
CKT	LOAD DESCRIPTION	BREAKER		LOAD KVA	BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP		AMP	POLE		
1	INSECT FAN	1	20	.9	1.7	20		LIGHTING
3				.9	1.0			2
5	RECEPT. GALLERY			.72	1.3			4
7	RECEPT. GALLERY			.72	.4			6
9				.54	.8			8
11	RETAIL			.36	.6			10
13	RETAIL			.36	3.0	30		12
15	OFC			.72	3.0	30		INSTANT WATER HEATER
17	OFC			.72	3.0	30		INSTANT WATER HEATER
19	BREAK			.18	.1	20		SECURITY ALARM CONTROL PANEL
21	BREAK			.36	.9			EXHAUST FAN #1
23	TOILET			.18	.1			FIRE ALARM CONTROL PANEL ①
25	COMM			.36	.9			INSECT FAN
27	AUDITORIUM			1.1	.9			INSECT FAN
29				.7	.8			TRACK LIGHT
31				.36				SPARE
33				1.0				SPACE
35	SPACE							SPACE
37								SPACE
39								SPACE
41								SPACE

TOTAL CONNECTED LOAD: 27.78 KVA  
 MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL  
 ① PROVIDE HANDLE LOCK ON AND PAINT BREAKER HANDLE RED  
 WALL MOUNT 10'-0" AFF (TO CENTERLINE)  
 TYPICAL FOR ALL WB FIXTURES IN BREEZEWAYS

### ELECTRICAL LEGEND

- LINEAR FLUORESCENT LIGHTING FIXTURE
- FLUORESCENT LIGHTING FIXTURE WITH EMERGENCY UNIT BATTERY PACK
- TRACK LIGHT
- COMPACT FLUORESCENT CEILING MOUNTED LIGHTING FIXTURE
- WALL BRACKET COMPACT FLUORESCENT LIGHTING FIXTURE
- SITE LIGHTING BOLLARD
- △ FLAG POLE LIGHT
- EXIT LIGHT
- EMERGENCY LIGHTING UNIT BATTERY PACK
- EMERGENCY LIGHTING UNIT REMOTE HEAD
- SINGLE POLE LIGHTING SWITCH MOUNT 48" AFF
- THREE-WAY LIGHTING SWITCH
- OCCUPANCY SENSOR LIGHTING SWITCH
- FLUORESCENT WALL BOX DIMMER (UNLESS NOTED OTHERWISE)
- 3-WAY FLUORESCENT WALL BOX DIMMER
- CEILING MOUNTED LIGHTING CONTROL OCCUPANCY SENSOR
- DUPLEX RECEPTACLE MOUNT 18" AFF UNLESS NOTED OTHERWISE
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNT 18" AFF UNLESS NOTED OTHERWISE
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WITH WEATHERPROOF COVERPLATE
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNTED ABOVE COUNTER
- QUADRAPLEX RECEPTACLE
- ICE MACHINE OUTLET. VERIFY OUTLET TYPE REQUIRED FOR OWNER FURNISHED EQUIPMENT
- TELE/DATA OUTLET MOUNT 18" AFF UNLESS NOTED OTHERWISE
- PANELBOARD
- NON-FUSED DISCONNECT SWITCH
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS
- CONDUIT RUN CONCEALED UNDERGROUND OR RUN BELOW SLAB
- HOMERUN TO PANELBOARD
- UC — UNDERGROUND COMMUNICATIONS
- UP — POWER COMPANY UNDERGROUND PRIMARY
- US — UNDERGROUND SECONDARY SERVICE
- FIRE ALARM SYSTEM PULL STATION MOUNT 48" AFF
- FIRE ALARM SYSTEM HORN/STROBE MOUNT 80" AFF
- FIRE ALARM SYSTEM STROBE MOUNT 80" AFF
- FIRE ALARM SYSTEM AREA SMOKE DETECTOR
- FIRE ALARM SYSTEM AREA HEAT DETECTOR
- FIRE SPRINKLER SYSTEM FLOW SWITCH. PROVIDE FIRE ALARM MONITOR MODULE
- FIRE SPRINKLER SYSTEM TAMPER SWITCH. PROVIDE FIRE ALARM MONITOR MODULE
- SECURITY ALARM SYSTEM DOOR SWITCH
- SECURITY ALARM SYSTEM PASSIVE INFRARED MOTION SENSOR

① NOTE THAT FIRE SPRINKLER SYSTEM IS BEING INSTALLED WITHOUT CONNECTION TO WATER SUPPLY. FIRE ALARM SHALL BE CONNECTED COMPLETE

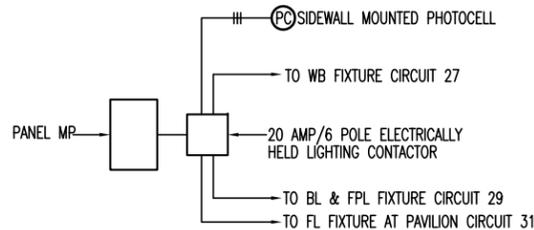


### 1 ELECTRICAL LIGHTING PLAN

E2

KEY NOTES SCALE (B)

- BATTERY PACK BPS SERVING RH2 FIXTURES. CONNECT TO MP CIRCUIT 27 AHEAD OF CONTACTOR
- UNDER SCHED. A EMPTY CONDUIT SHALL BE ROUGHED-IN BELOW THE SLAB AND STUBBED OUT BELOW GRADE IN THE AUDITORIUM AREA FOR FUTURE CONSTRUCTION OF THE AUDITORIUM  
 -STUB OUTS SHALL BE BEYOND CONCRETE SLAB TO AUDITORIUM AREA. CLEARLY MARK LOCATIONS ON AS-BUILTS  
 -STUB OUT 1-3/4" FROM PANEL L1 (FOR CIRCUITS 8,10,12)  
 -STUB OUT 1-1/2" FROM WB FIXTURE ON CENTER STRUCTURE
- SWITCH FOR FIXTURES ON MEZZANINE. SEE PLAN THIS SHEET
- SHALL BE COMPATIBLE WITH FIXTURE LOW VOLTAGE TRANSFORMER
- EXIT LIGHTS SHALL BE WALL MOUNTED. BOTTOM NOMINAL 2" ABOVE DOOR FRAME
- WALL MOUNT FB4 FIXTURES BOTTOM NOMINAL 2" ABOVE DOOR FRAME
- FS FIXTURES IN JAN. 104 SHALL BE SURFACE MOUNTED TO UNDERSIDE OF MEZZANINE STRUCTURE



EXTERIOR LIGHTING CONTROL DIAGRAM

SCALE (B) 8 0 8 16  
 SCALE OF FEET



A/E FIRM HDR Engineering, Inc. Pensacola, FL CA 4213	DESIGNED: KLOCKE GADD JPM TECH. REVIEW:	SUB SHEET NO. <b>E2</b>	TITLE OF SHEET TAMIAMI TRAIL WELCOME CENTER LIGHTING PLAN BIG CYPRESS NATIONAL PRESERVE	DRAWING NO. 176 41,009 PMS/PKG NO. 61948/110159 SHEET 68 of 69
DATE: 02/2008				

