



ATTACHMENT

90% DRAWINGS AND SPECIFICATIONS

- Drawings-1.pdf

General Phase 1 and Phase 2 Drawings

- Drawings-2.pdf

Drawings for Replica Cottage and Education Cottage
(Lighthouse Experience)

- Drawings-3.pdf

General Phase 1 and Phase 2 Specifications and Details

Note: all drawings and specifications for both Phase 1 and Phase 2 were done at the same time. To simplify for this grant request, drawings only for Phase 1 buildings have been removed.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
A/C	AIR CONDITIONING
ALT	ALTERNATE
AL, ALUM	ALUMINUM
AB	ANCHOR BOLT
Z	ANGLE
BD	BOARD
BOT	BOTTOM
BRG	BEARING
BLDG	BUILDING
BUR	BUILT UP ROOFING
CLG	CEILING
CT	CERAMIC TILE
CCTV	CLOSED CIRCUIT TELEVISION
CLO	CLOSET
COL	COLUMN
CMU	CONCRETE MASONRY UNIT
CJ	CONTROL JOINT
DEMO	DEMOLISH, DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DR	DOOR
DBL	DOUBLE
DN	DOWN
DS	DRAINSPOUT
DF	DRINKING FOUNTAIN
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
EACH	EACH
ELEC	ELECTRIC (AL)
EWC	ELECTRIC WATER COOLER
EW4	ELECTRIC WATER HEATER
ELEV	ELEVATION
EQ	EQUAL
EJ	EXPANSION JOINT
FFE	FINISH FLOOR ELEVATION
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FL	FLOOR (ING)
FD	FLOOR DRAIN
GA	GAGE, GAUGE
GALV	GALVANIZED
GL	GLASS, GLAZING
GB	GRAB BAR
GWB	GYPSPUM WALLBOARD
HYAC	HEATING / VENTILATING / AIR COND.
HT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HB	HOSE BIBB
HR	HOUR
IN	INCH
ID	INSIDE DIAMETER
INV	INVERT
JT	JOINT
LAV	LAVATORY
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL
MH	MANHOLE
MFR	MANUFACTURE (ER)
MO	MASONRY OPENING
MAX	MAXIMUM
MECH	MECHANIC (AL)
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NRC	NOISE REDUCTION COEFFICIENT
NOM	NOMINAL
N	NORTH
NC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
O.C.	ON CENTER (S)
OD	OUTSIDE DIAMETER
PTD	PAPER TOWEL DISPENSER
PL	PLATE
PVC	POLYVINYL CHLORIDE
P81	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PL	PROPERTY LINE
QT	QUARRY TILE
R	RADIUS
REF	REFERENCE
REF	REFRIGERATOR
RCIP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RA	RETURN AIR
REV	REVISION (S), REVISED
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
SHT	SHEET
SM	SIMILAR
SC	SOLID CORE
STC	SOUND TRANSMITTANCE COEFFICIENT
SPEC	SPECIFICATION (S)
SFR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STO	STORAGE
THR	THRESHOLD
TPD	TOILET PAPER DISPENSER
TB	TOILET BAR
TYP	TYPICAL
UC	UNDERCUT
UL	UNDERWRITER'S LABORATORY
UR	URNAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
VOL	VOLUME
WC	WATER CLOSET
WH	WATER HEATER
WJF	WELDED WIRE FABRIC
W	WOOD
W/O	WITHOUT
WD	WOOD
YD	YARD

CAPE CANAVERAL LIGHTHOUSE FOUNDATION LIGHTHOUSE KEEPER'S COTTAGES

LIGHTHOUSE RD.

CAPE CANAVERAL AFS, FL

90% CONSTRUCTION DOCUMENTS



APPROVED:

	DATE
CHIEF ENGINEER, 45 CES/CEZ	
PROJECT MANAGER, 45 CES	
WING SAFETY 45 SW/SEAN	
RESOURCE PROTECTION	
ENVIROMENTAL, 45 CES/CEA	
FIRE SERVICE	
COMMUNICATIONS	
ATO, 45 SW/ATO	
BASE OPERATIONS, INDYNE/IOMS	
FACILITY MANAGER/USER	

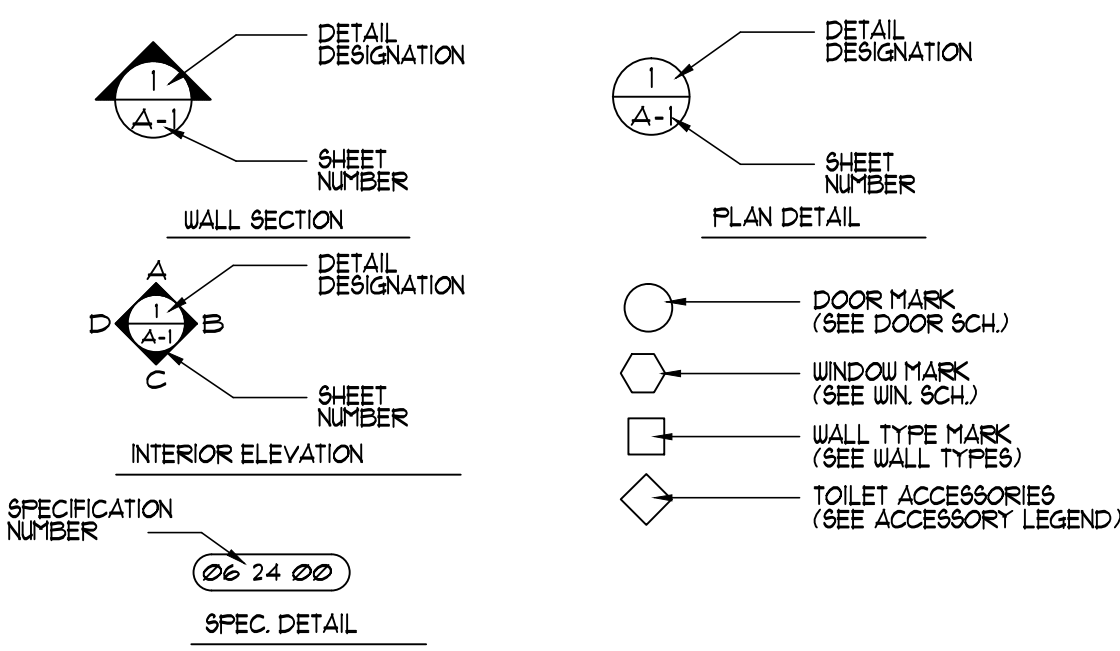
DRAWING LIST

REVISIONS	DESCRIPTION
COV-1	COVER SHEET
COV-2	RENDERINGS AND MEP SHEET INDEX
	CIVIL
G-1	COVER SHEET
G-2	STORMWATER POLLUTION PREVENTION PLAN (SUPPP)
C-1	EXISTING CONDITIONS AND DEMOLITION PLAN
C-2	SITE AND UTILITY PLAN
C-3	GRADING AND DRAINAGE PLAN
C-4	DETAILS
C-5	UTILITY DETAILS
C-6	CITY OF COCOA TECHNICAL PROVISIONS - WATER
C-7	CITY OF COCOA TECHNICAL PROVISIONS - WATER
C-8	SPECIFICATIONS
	ARCHITECTURAL
AS-10	ARCHITECTURAL SITE PLAN
AS-11	ARCHITECTURAL SITE DETAILS
LS-1	GFT SHOP/DISPLAY LIFE SAFETY PLAN
IA-10	GFT SHOP/DISPLAY FLOOR PLANS
IA-11	GFT SHOP/DISPLAY ENLARGED FLOOR PLANS
IA-20	GFT SHOP/DISPLAY CEILING PLANS
IA-30	GFT SHOP/DISPLAY ROOF PLAN
IA-40	GFT SHOP/DISPLAY EXTERIOR ELEVATIONS
IA-41	GFT SHOP/DISPLAY EXTERIOR DETAILS
IA-50	GFT SHOP/DISPLAY BUILDING SECTIONS
IA-60	GFT SHOP/DISPLAY WALL SECTIONS AND DETAILS
IA-70	GFT SHOP/DISPLAY INTERIOR ELEVATIONS
IA-80	GFT SHOP/DISPLAY DOOR/WINDOW TYPES
IA-81	GFT SHOP/DISPLAY DOOR/WINDOW DETAILS
IA-90	GFT SHOP/DISPLAY CABINETRY AND FINISH DETAILS
IA-100	GFT SHOP/DISPLAY WALL TYPES
2LS-1	REPLICA HOUSE LIFE SAFETY PLAN
2A-10	REPLICA HOUSE FLOOR PLANS
2A-11	REPLICA HOUSE ENLARGED FLOOR PLANS
2A-20	REPLICA HOUSE CEILING PLANS
2A-30	REPLICA HOUSE ROOF PLAN
2A-40	REPLICA HOUSE EXTERIOR ELEVATIONS
2A-41	REPLICA HOUSE EXTERIOR DETAILS
2A-50	REPLICA HOUSE BUILDING SECTIONS
2A-60	REPLICA HOUSE WALL SECTIONS AND DETAILS
2A-70	REPLICA HOUSE INTERIOR ELEVATIONS
2A-80	REPLICA HOUSE DOOR/WINDOW TYPES
2A-81	REPLICA HOUSE DOOR/WINDOW DETAILS
2A-90	REPLICA HOUSE CABINETRY AND FINISH DETAILS
2A-100	REPLICA HOUSE WALL TYPES
3LS-1	EDUCATION CENTER LIFE SAFETY PLAN
3A-10	EDUCATION CENTER FLOOR PLANS
3A-20	EDUCATION CENTER CEILING PLANS
3A-30	EDUCATION CENTER ROOF PLAN
3A-40	EDUCATION CENTER EXTERIOR ELEVATIONS
3A-50	EDUCATION CENTER WALL SECTIONS
3A-60	EDUCATION CENTER WALL SECTIONS AND DETAILS
3A-70	EDUCATION CENTER INTERIOR ELEVATIONS
3A-80	EDUCATION CENTER DOOR/WINDOW TYPES AND DETAILS
3A-90	EDUCATION CENTER CABINETRY AND FINISH DETAILS
3A-100	EDUCATION CENTER WALL TYPES
4LS-1	RESTROOMS LIFE SAFETY PLAN
4A-10	RESTROOMS FLOOR PLAN
4A-20	RESTROOMS CEILING PLAN
4A-30	RESTROOMS ROOF PLAN
4A-40	RESTROOMS EXTERIOR ELEVATIONS
4A-50	RESTROOMS BUILDING SECTIONS
4A-60	NOT USED
4A-70	RESTROOMS INTERIOR ELEVATIONS
4A-80	RESTROOMS DOOR/WINDOW TYPES AND DETAILS
4A-90	NOT USED
4A-100	RESTROOMS WALL TYPES
	STRUCTURAL
150.0	GENERAL NOTES AND 3D MODELS
151.0	LEVEL 1 FRAMING AND FOUNDATION PLAN
152.0	LEVEL 2 AND LOW ROOF FRAMING PLAN
153.0	HIGH ROOF FRAMING PLAN
154.0	BUILDING SECTIONS AND DETAILS
250.0	GENERAL NOTES AND 3D MODELS
251.0	LEVEL 1 FRAMING AND FOUNDATION PLAN
252.0	LEVEL 2 / LOW ROOF FRAMING PLAN
253.0	ROOF FRAMING PLAN
254.0	BUILDING SECTIONS AND DETAILS
255.0	SECTIONS AND DETAILS
350.0	GENERAL NOTES AND 3D MODELS
351.0	FRAMING AND FOUNDATION PLAN
352.0	ROOF FRAMING PLAN
353.0	BUILDING SECTIONS AND DETAILS
354.0	SECTIONS AND DETAILS
450.0	GENERAL NOTES AND 3D MODELS
451.0	FRAMING AND FOUNDATION PLAN
452.0	ROOF FRAMING PLAN
453.0	BUILDING SECTIONS AND DETAILS
454.0	SECTIONS AND DETAILS

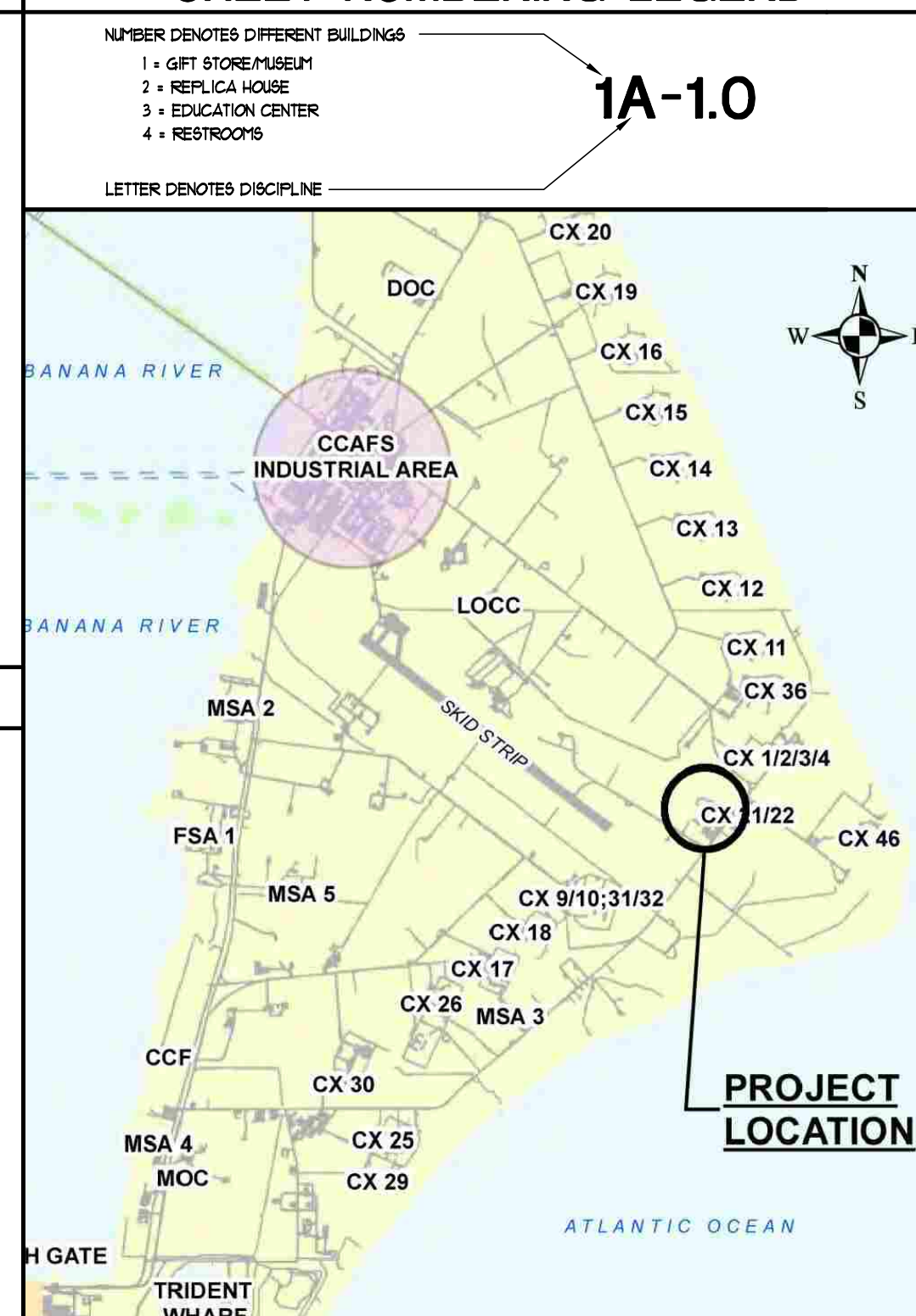
GENERAL NOTES

- ALL GRAPHIC SCALES INDICATED ON THE DRAWINGS ARE FOR 24"x36" PAGE SIZE ONLY.
- TO THE BEST OF OUR KNOWLEDGE THESE DOCUMENTS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE SAFETY STANDARDS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND 633 FLORIDA STATUTES.
- DETAILS SHALL APPLY TO ALL SIMILAR CONDITIONS UNLESS A DIFFERENT DETAIL IS SHOWN.
- DURING BIDDING AND CONSTRUCTION DO NOT SEPARATE DRAWINGS AND SPECS OR USE PARTIAL SETS. THERE IS NO DRAWING OR SPEC THAT OVER RIDES THE REST. THE DRAWINGS AND SPECS ARE INTENDED TO SUPPLEMENT EACH OTHER.
- ROOM FINISH SCHEDULE IS INTENDED TO PROVIDE GENERAL ROOM FINISHES. SEE SECTIONS AND INTERIOR ELEVATIONS FOR MORE DETAILS AND FINISH REQUIREMENTS. NOT ALL FINISH MATERIALS REQUIRED FOR THIS PROJECT ARE ADDRESSED IN THE FINISH SCHEDULE. DO NOT BID OFF ONLY THE FINISH SCHEDULE FOR ANY TRADE.

SYMBOLS LIST



SHEET NUMBERING LEGEND



VICINITY MAP



REVISIONS AND UPDATES

10/01/14	90% CONSTRUCTION DOCUMENTS
06/18/14	PROGRESS SET
03/21/14	DESIGN DEVELOPMENT SET
09/20/12	SCHEMATIC PLANS

**CAPE CANAVERAL LIGHTHOUSE FOUNDATION
LIGHTHOUSE KEEPER'S COTTAGES**

LIGHTHOUSE RD CAPE CANAVERAL AFS, FL
COVER SHEET

drawn 09/30/14	CNK	checked 01/03/14	JJR	approved	JJR
				FOR REVIEW NOT FOR CONSTRUCTION	
AA-C001568				Job no. 200.40	
				COV-1	

ARCHITECTS RZK, INC.
800 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039



1 GIFT SHOP / DISPLAY
SCALE: N.T.S.



2 REPLICA HOUSE
SCALE: N.T.S.



3 EDUCATION CENTER
SCALE: N.T.S.



4 RESTROOM
SCALE: N.T.S.

DRAWING LIST

SHEET NUMBERING LEGEND

NUMBER DENOTES DIFFERENT BUILDINGS
1 = GIFT STORE/MUSEUM
2 = REPLICA HOUSE
3 = EDUCATION CENTER
4 = RESTROOMS

1A-1.0

LETTER DENOTES DISCIPLINE

REVISIONS	DESCRIPTION
	PLUMBING
0P-10	PLUMBING NOTES, SCHEDULES AND DETAILS
1P-10	GIFT SHOP PLUMBING PLANS
2P-10	REPLICA HOUSE PLUMBING PLANS
3P-10	EDUCATIONAL CENTER PLUMBING PLAN
4P-10	RESTROOM PLUMBING PLAN
	MECHANICAL
0M-10	MECHANICAL SPECIFICATIONS AND SCHEDULES
1M-10	MECHANICAL DETAILS
2M-10	GIFT SHOP MECHANICAL PLANS
3M-10	REPLICA HOUSE MECHANICAL PLANS
4M-10	EDUCATIONAL CENTER MECHANICAL PLAN
	ELECTRICAL
E-10	NOTES, SYMBOLS AND SCHEDULES
E-11	ELECTRICAL SITE PLAN
E-21	GIFT SHOP LIGHTING PLANS
E-22	GIFT SHOP POWER AND SYSTEMS PLANS
2E-21	REPLICA HOUSE LIGHTING PLANS
2E-22	REPLICA HOUSE POWER AND SYSTEMS PLANS
3E-21	EDUCATIONAL CENTER ELECTRICAL PLANS
4E-21	RESTROOM ELECTRICAL PLANS
E-5	ELECTRICAL PANEL SCHEDULES

PAINT LEGEND

- (P1) PAINT COLOR #1 - WHITE (DIAMOND MINE #411-1 - PITTSBURGH PAINTS)
- (P2) PAINT COLOR #2 - GREEN PEPPER (SOUTHERN PAINT OR PITTSBURGH PAINTS EQUIVALENT)
- (P3) SHINGLE COLOR - MAX DEF MOJAVE TAN (CERTANTEED)

REVISIONS AND UPDATES

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CAPE CANAVERAL LIGHTHOUSE FOUNDATION
LIGHTHOUSE KEEPER'S COTTAGES

LIGHTHOUSE RD CAPE CANAVERAL AFS, FL
RENDERINGS AND MEP SHEET INDEX

drawn 09/30/14 CNK checked 07/03/14 JJR approved JJR

FOR REVIEW
NOT FOR
CONSTRUCTION

Job no. 200.40
COV-2

ARCHITECTS RZK, INC.
800 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039

LIGHTHOUSE KEEPER'S COTTAGES

CAPE CANAVERAL AFS, FLORIDA

DATE:

28 MARCH 2014

PREPARED FOR:

CAPE CANAVERAL LIGHTHOUSE FOUNDATION

SITE DATA:

1. APPLICANT:
 CAPE CANAVERAL LIGHTHOUSE FOUNDATION
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CIVIL ENGINEER:
 CONSTRUCTION ENGINEERING GROUP
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 BOWMAN CONSULTING GROUP, LTD.
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 MELBOURNE, FL 32934
 TEL: (321) 255-5434
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LOCATION:
 SECTION: 29
 TOWNSHIP: 23 SOUTH
 RANGE: 37 EAST

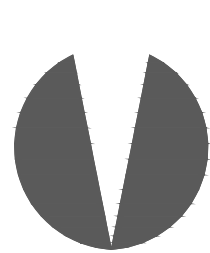
2. SITE CHARACTERISTICS:
 PROJECT BOUNDARY TOTAL ACREAGE: 4.19 ACRES

CALCULATED LOT COVERAGES	SF	ACRE	PERCENT
TOTAL PROPOSED IMPERVIOUS AREA:	26,094	0.60	14%
PROPOSED PERVIOUS:	156,381	3.59	86%
TOTAL GROSS AREA:	182,475	4.19	100%

3. FIRE PROTECTION:
 FIRE PROTECTION: AN EXISTING FIRE HYDRANT IS LOCATED 285.8' SOUTH OF THE LIGHTHOUSE. SEE DRAWING C-1.

4. PARKING:
 TEN STANDARD VEHICLE & TWO BUS STABILIZED PARKING SPACES ARE PROVIDED EAST OF THE LIGHTHOUSE IN THE VICINITY OF THEIR EXISING PARKING. TWO HANDCAP PARKING SPACES ARE STRIPED & SIGNED TO THE SOUTHWEST OF THE LIGHTHOUSE ALONG WITH OVERFLOW PARKING IF NECESSARY

PREPARED BY:



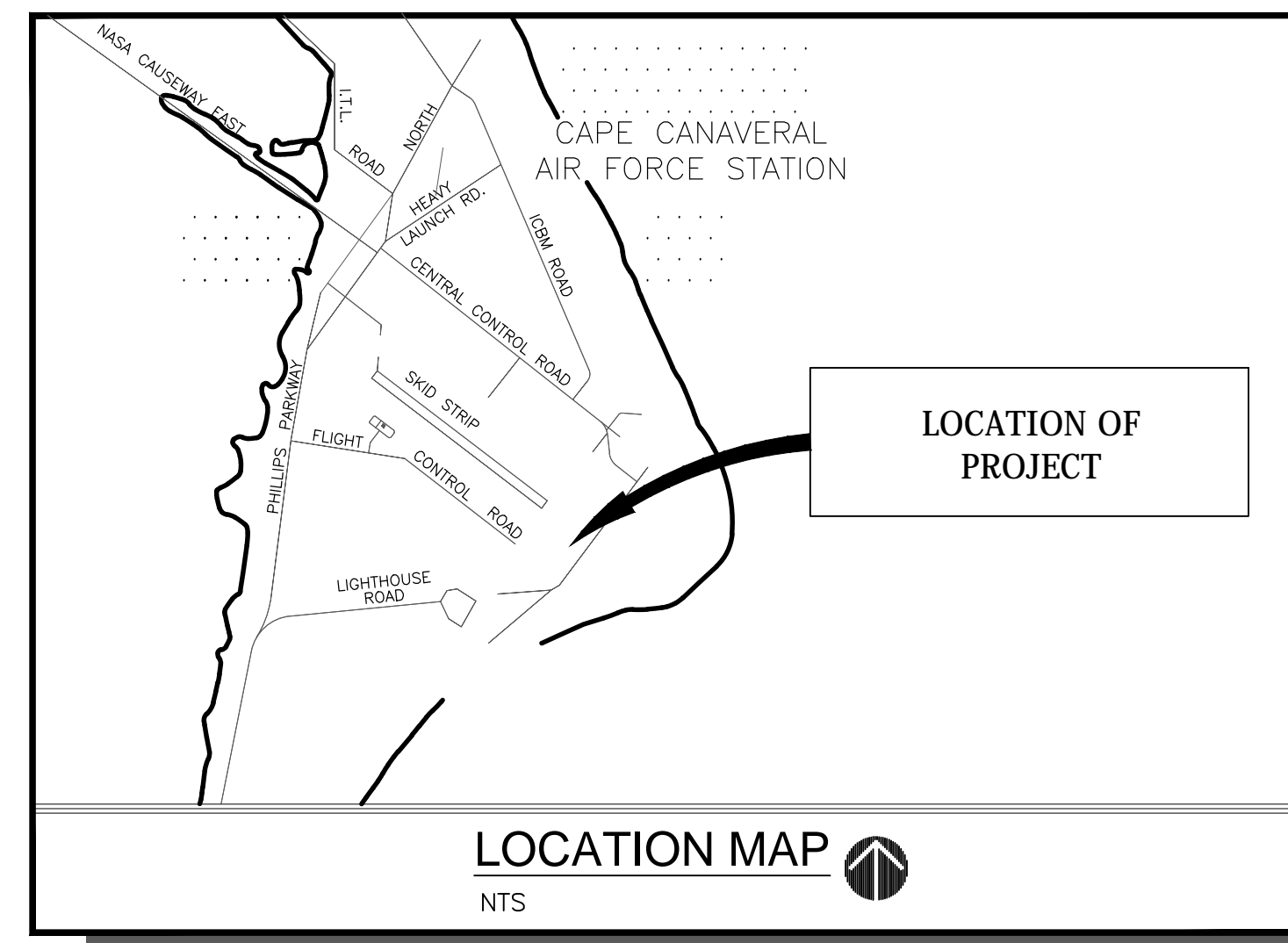
CONSTRUCTION ENGINEERING GROUP
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INDEX OF DRAWINGS:

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C-1	EXISTING CONDITIONS AND DEMOLITION PLAN
C-2	SITE AND UTILITY PLAN
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C-9	CITY OF COCOA TECHNICAL PROVISIONS - WATER

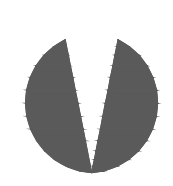


LEGEND:

DESCRIPTION	NEW	
BUILDING OR STRUCTURE		SILT FENCE
SHELL SIDEWALK		SANITARY SEWER WITH CLEANOUT
STABILIZED PARKING/DRIVE		WATERLINE WITH VALVE
PAVERS		STORM DRAIN WITH INLET
DEMOLITION		SPOT ELEVATION
PROJECT BOUNDARY		SWALE OR FLOW DIRECTION
SWALE FLOWLINE		PRESERVED TREE
WHITE PICKET FENCE WITH PEDESTRIAN GATE		REMOVED/RELOCATED TREE
		EXISTING MONITORING WELL

APPROVED:

	DATE
CHIEF ENGINEER, 45 CES/CEZ	
PROJECT MANAGER, 45 CES	
WING SAFETY 45 SW/SEAN	
RESOURCE PROTECTION	
ENVIROMENTAL, 45 CES/CEA	
FIRE SERVICE	
COMMUNICATIONS	
ATO, 45 SW/ATO	
BASE OPERATIONS, INDYNE/IOMS	
FACILITY MANAGER/USER	



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ENGINEER OF RECORD

PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND UPDATES

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CAPE CANAVERAL LIGHTHOUSE FOUNDATION
 LIGHTHOUSE KEEPER'S COTTAGES
 LIGHTHOUSE RD CAPE CANAVERAL AFS, FL

COVER SHEET

drawn DHF checked JTW approved DMT

FOR REVIEW NOT FOR CONSTRUCTION

job no. 130232

G-1
 SCALE: NTS

ARCHITECTS RZK, INC.
 600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039

EROSION AND SEDIMENTATION CONTROL REQUIREMENTS

1. THE LAND-DISTURBING ACTIVITY SHALL CONFORM TO EXISTING TOPOGRAPHY AND SOIL TYPE SO AS TO CREATE THE LOWEST PRACTICAL EROSION POTENTIAL.
2. LAND-DISTURBING ACTIVITIES SHALL BE CONDUCTED IN A MANNER MINIMIZING EROSION.
3. THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSION ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM.
4. EROSION CONTROL MUST BE STRICTLY MAINTAINED DURING CUT AND FILL OPERATIONS.
5. DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
6. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.
7. TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
8. PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.
9. ADEQUATE PROVISIONS MUST BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACE OF FILLS.
10. TO THE EXTENT NECESSARY, SEDIMENT IN RUNOFF WATER MUST BE TRAPPED BY THE USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
11. CUTS AND FILLS MUST BE CONSTRUCTED IN SUCH A MANNER THAT EROSION AND RUNOFF FROM THE SITE DOES NOT ENDANGER ADJOINING PROPERTY.
12. FILLS MAY NOT ENCRoACH UPON NATURAL WATERCOURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS WITHOUT ADEQUATE PROVISIONS FOR AN EQUIVALENT ALTERNATE SYSTEM WITH A POSITIVE OUTFALL.
13. ALL R.O.W.'S, WATERWAYS, STREETS AND SIDEWALKS SHALL BE BUFFERED BY A TWENTY (20) FOOT WIDE STRIP OF GRASS OR OTHER SUITABLE MEANS.
14. GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY MEANS OF BRIDGES OR CULVERTS EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE AND PROVIDED IN ANY CASE, THAT SUCH CROSSINGS ARE KEPT TO A MINIMUM AND SEDIMENTATION CONTROL DEVICES ARE PROVIDED.

CONTRACTOR RESPONSIBILITIES FOR NPDES (SWPPP)

1. GENERAL NOTES
 - A. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS HEREIN AND ALL WATER MANAGEMENT DISTRICT, FDEP, EPA, CORPS OF ENGINEERS, AND MUNICIPALITY/COUNTY WITH JURISDICTION REQUIREMENTS.
 - B. CONTRACTOR SHALL MAINTAIN A RECORD OF CONSTRUCTION WORK AND PROVIDE INSPECTION REPORTS WITH THE FOLLOWING DATA:
 - 1) DATES WHEN SITE WORK BEGINS, EROSION CONTROL MEASURES ARE INSTALLED, GRADING WORK BEGINS, STORMWATER FACILITIES ARE CONSTRUCTED, AND FINAL STABILIZATION IS COMPLETE.
 - 2) REPORT INSPECTOR'S NAME, QUALIFICATIONS, DAILY RAINFALL, ANY CHANGES NECESSARY TO SWPPP, AND DATES OF INSPECTIONS.
 - 3) PICTURES OF ANY PROBLEM AREAS THAT OCCUR INCLUDING DATE AND TIME, AND PICTURES OF SAME AREA REPAIRED INCLUDING DATE AND TIME.
2. SITE DESCRIPTION
 - A. DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE. FIRST, GRADE THE SITE INCLUDING THE STORMWATER TREATMENT SYSTEM. ALL EROSION CONTROL MEASURES INSTALLED AT THIS TIME (SOD ALL AREAS FINAL GRADED IMMEDIATELY). FINAL GRADING, PAVING, AND PLANTINGS ACROSS THE SITE WILL FINISH OUT THE PROJECT.
 - B. ESTIMATE OF THE TOTAL AREA OF THE SITE AND THE TOTAL AREA EXPECTED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES.
 - C. THE ENTIRE 4.19 ACRES ARE EXPECTED TO BE DISTURBED BY GRADING, WITH THE EXCEPTION OF TREE PRESERVATION AREAS AS IDENTIFIED ON THE EXISTING SITE PLAN.
 - D. AN ESTIMATE OF RUNOFF COEFFICIENT OF THE SITE BEFORE, DURING, AND AFTER CONSTRUCTION USING "C" FROM THE RATIONAL METHOD.
 - E. "C" CAN BE APPROXIMATED AS 0.25 (BEFORE) AND 0.45(AFTER), FROM TABLE 2.1 "TYPICAL "C" VALUES" OF THE EPA "STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES".
 - F. THE EXISTING DATA DESCRIBING EXISTING CONDITIONS OF SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE. POMELLO SAND, IMMOKALEE SAND AS CLASSIFIED BY THE SOIL CONSERVATION SERVICE HANDBOOK.
 - G. OFF-SITE OVERFLOW RECEIVING BODY. ATLANTIC OCEAN.
3. CONTROLS

THIS SECTION PROVIDES A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE.

 - A. EROSION AND SEDIMENT CONTROLS
 - 1) STABILIZATION PRACTICES: EXCAVATED MATERIALS WILL BE STOCKPILED FOR USE AS A BACKFILL AND STABILIZING MATERIAL. UNSUITABLE MATERIALS WILL BE PROMPTLY REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
 - 2) STRUCTURAL PRACTICES: THE CONTRACTOR SHALL INSTALL AND MAINTAIN WATER QUALITY CONTROL DEVICES AT ALL NEARBY STORMWATER MANAGEMENT PONDS, DITCHES, AND SWALES. INCLUDED IN THE PLANS ARE SILTATION FENCES AND TURBIDITY BARRIERS. CONTRACTOR SHALL INSTALL ADDITIONAL WATER QUALITY CONTROL MEASURES AS APPROPRIATE TO ASSURE ADEQUATE PROTECTION OF RECEIVING WATER BODIES.
 - B. STORMWATER MANAGEMENT: THE ENTIRE PROJECT IS DESIGNED TO IMPROVE STORMWATER MANAGEMENT. THE CONTRACTOR SHALL CONTROL TURBID RUNOFF FROM THE PROJECT SITE BY USING TEMPORARY GRADING AND INSTALLING EROSION CONTROL MEASURES.
 - C. OTHER CONTROLS: ALL GUIDELINES AND REGULATIONS SET FORTH IN THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
4. MAINTENANCE
 - 1) THE CONTRACTOR SHALL PROVIDE ROUTINE MAINTENANCE OF VEGETATION, PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES DURING THE DURATION OF THE PROJECT.
 - 2) THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED ON THE CONSTRUCTION PLANS AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL NEW LANDSCAPING IS ESTABLISHED.
 - 3) ALL DRAINAGE STRUCTURES SHALL BE DE-SILTED AS REQUIRED DURING CONSTRUCTION AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS AND MINIMIZE TRANSPORT OF SILT TO THE MASTER DRAINAGE SYSTEM AND RECEIVING WATER BODY.
 - 4) ALL ACCUMULATIONS OF SILT GREATER THAN SIX INCHES SHALL BE REMOVED BY THE CONTRACTOR AND PROPERLY DISPOSED.
 - 5) ALL TEMPORARY EROSION CONTROL DEVICES WILL BE INSPECTED BY THE CONTRACTOR ON A WEEKLY BASIS (MINIMUM). IN AREAS OF ONGOING CONSTRUCTION ACTIVITY, TURBIDITY AND EROSION CONTROL MEASURES WILL BE INSPECTED ON A DAILY BASIS. ADDITIONAL INSPECTIONS WILL BE CONDUCTED AFTER ALL SEVERE WEATHER. IF ANY DEFICIENCIES IN EROSION CONTROL ARE DISCOVERED, CORRECTIVE ACTIONS SHALL BE TAKEN IMMEDIATELY BY THE CONTRACTOR.

5. INSPECTIONS

INSPECTIONS WILL BE PERFORMED BY THE CONTRACTOR ON A WEEKLY BASIS (MINIMUM) AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.25 INCHES OR GREATER.

 - A. INSPECTIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
 - ALL DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT RECEIVED FINAL STABILIZATION.
 - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - EXAMINATION OF THE SITE FOR EVIDENCE OF, OR THE POTENTIAL FOR POLLUTANTS ENTERING THE RECEIVING WATERS.
 - STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN TO PROVIDE REASONABLE ASSURANCE THAT THEY ARE OPERATING AS DESIGNED.
 - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
 - ALL POINTS OF DISCHARGE INTO THE MASTER STORMWATER MANAGEMENT SYSTEM TO DETERMINE WHETHER EROSION CONTROL AND STORMWATER MANAGEMENT MEASURES ARE EFFECTIVELY PREVENTING WATER QUALITY DEGRADATION IN THE RECEIVING WATER BODY.
 - WHEN REMEDIAL ACTION IS REQUIRED FOR COMPLIANCE, THE PLAN WILL BE REVISED AS NECESSARY AND ADDITIONAL STRUCTURAL MEASURES INSTALLED IMMEDIATELY AS WARRANTED.
 - B. PRODUCT SPECIFIC PRACTICES:
 - 1) CONCRETE TRUCKS: CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.
 - 2) FERTILIZERS: FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
 - 3) PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED.
 - C. SPILL CONTROL PRACTICES:
 - THESE ADDITIONAL PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION CLEANUP:
 - MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
 - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT ON-SITE;
 - ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY AND REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY IF NECESSARY; AND
 - THE SPILL PREVENTION PLAN WILL BE MODIFIED TO INCLUDE MEASURES TO PREVENT A REOCCURRENCE, HOW TO CLEAN UP IF ANOTHER OCCURS, AND A DESCRIPTION OF WHAT SPILLED, WHAT CAUSED IT, AND WHAT THE CLEANUP MEASURES ARE.
6. NON-STORMWATER DISCHARGES

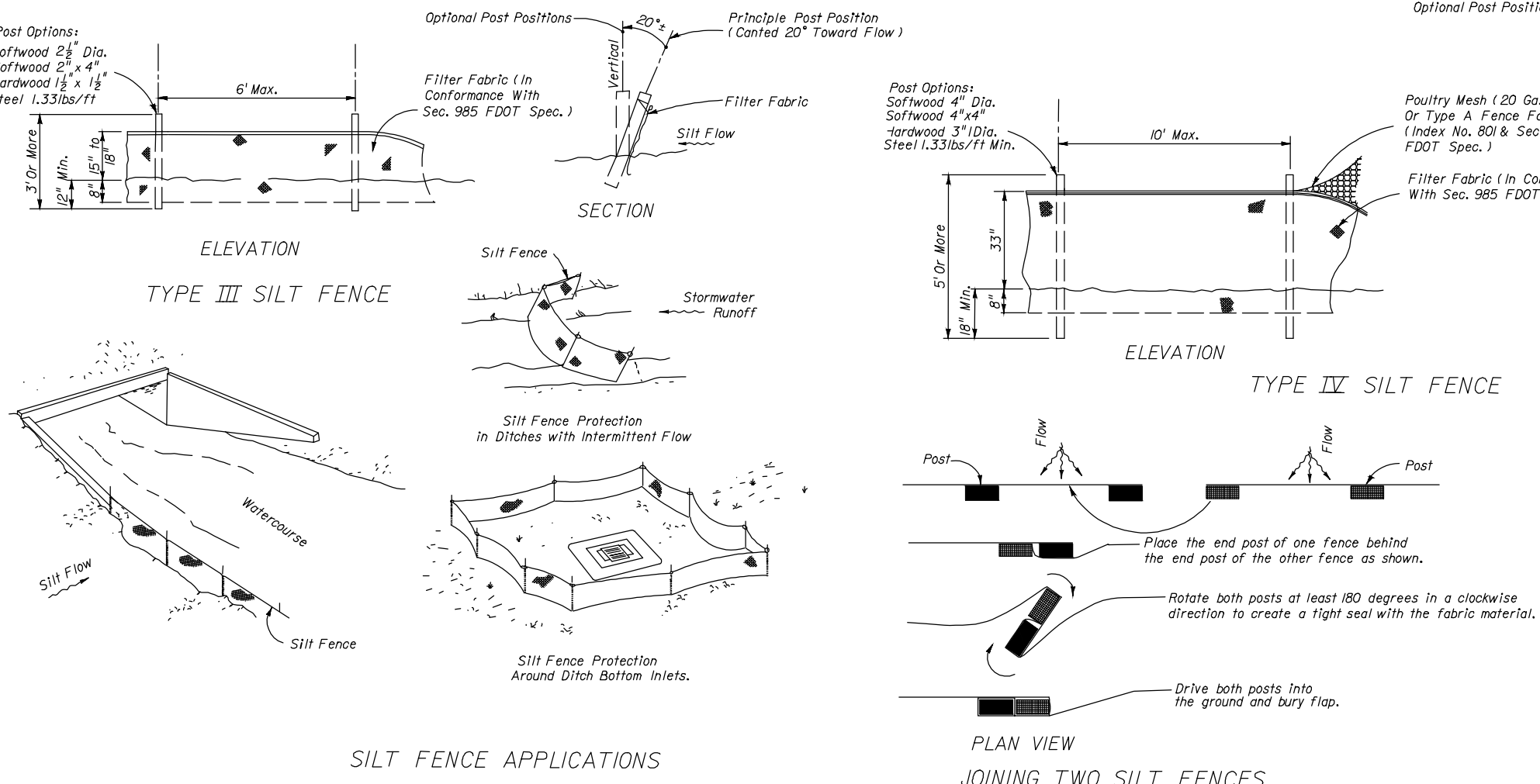
NO NON-STORMWATER DISCHARGES ARE ANTICIPATED WITH THE POSSIBLE EXCEPTION OF DEWATERING. THE CONTRACTOR SHALL OBTAIN A DEWATERING PERMIT IF NECESSARY AND FOLLOW ALL STATE REQUIREMENTS AS ENFORCED BY THE WATER MANAGEMENT DISTRICT WITH AUTHORITY.
7. INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION:

 - CONCRETE;
 - FERTILIZERS; AND
 - PETROLEUM BASED PRODUCTS.
8. SPILL PREVENTION
 - A. MATERIAL MANAGEMENT PRACTICES:

THE MATERIAL MANAGEMENT PRACTICES WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

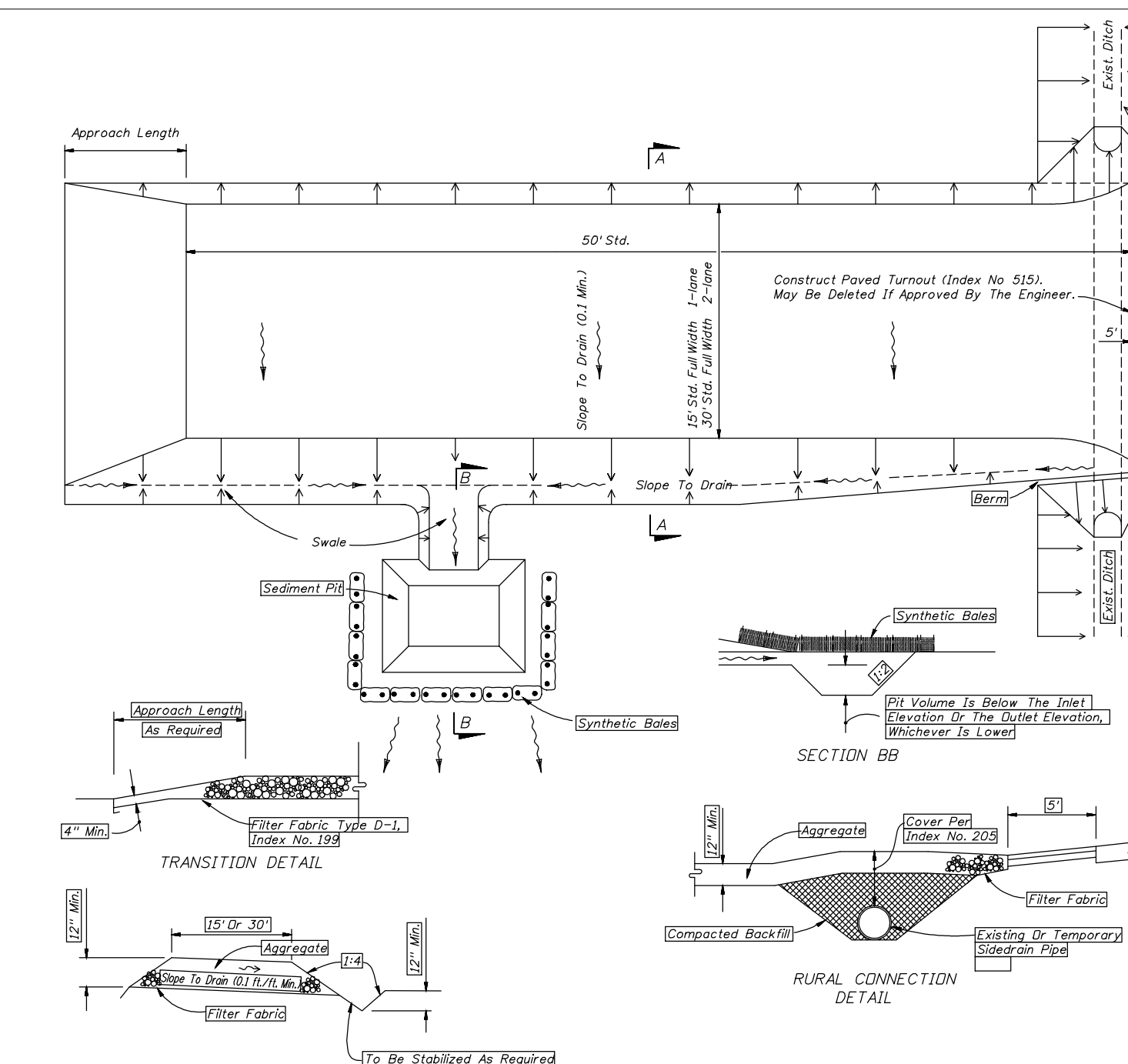
 - 1) GOOD HOUSEKEEPING:
 - THE FOLLOWING PRACTICES WILL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.
 - AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB;
 - ALL MATERIALS STORED ON-SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF;
 - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURERS' LABEL;
 - SUBSTANCES WILL NOT BE MIXED UNLESS RECOMMENDED BY THE MANUFACTURER;
 - MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED;
 - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 - 2) HAZARDOUS PRODUCTS:
 - THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
 - PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
 - ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION;
 - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.



NOTES FOR SILT FENCES

1. TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART I, SHEET 1.
2. TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.
3. DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
4. WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.
5. SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, (LF).

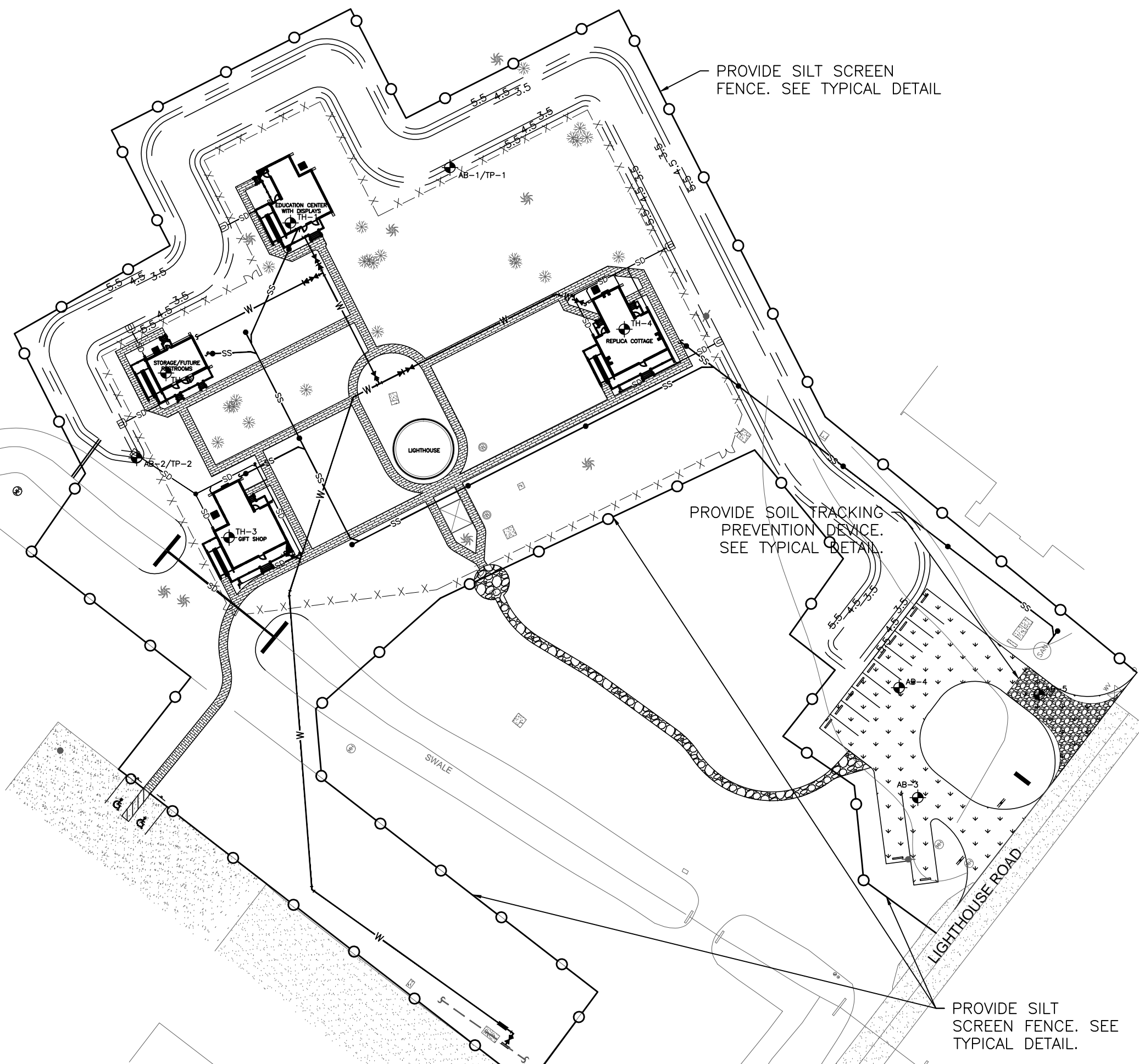
TYPICAL FDOT SILT FENCE DETAIL



NOTES:

1. A SOIL TRACKING PREVENTION DEVICE (STPD) SHALL BE CONSTRUCTED AT LOCATIONS DESIGNATED BY THE ENGINEER FOR POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE OFF-SITE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED AREAS OF THE CONSTRUCTION PROJECT SHALL BE DIRECTED THROUGH A STPD, BARRIERS, FLAGGING, OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STPD.
2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFF-SITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ITS USE.
3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO THE PUBLIC ROADS (INCLUDING THE STPD AGGREGATE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.
4. AGGREGATES SHALL BE AS DESCRIBED IN SECTION 901 EXCLUDING 901-2.3.3. AGGREGATES SHALL BE FDOT SIZE #1. IF THIS SIZE IS NOT AVAILABLE, THE NEXT AVAILABLE SMALLER SIZE AGGREGATE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE UNSUITABLE.
5. THE SEDIMENT PIT SHOULD PROVIDE A RETENTION VOLUME OF 3600 CUBIC FEET/ACRE OF SURFACE AREA DRAINING TO THE PIT. PIT VOLUMES WILL SATISFY THE REQUIREMENT:
 - 15'x50'=100 FT 30"x50'=200 FT 2
 - AS AN OPTION TO THE SEDIMENT PIT, THE WIDTH OF THE SMALL BOTTOM CAN BE INCREASED TO OBTAIN THE VOLUME. WHEN THE SEDIMENT PIT OR SMALL VOLUME HAS BEEN REDUCED TO ONE HALF, IT SHALL BE CLEANED WHEN A SWALE IS USED. SYNTHETIC BALES OR SILT FENCE SHALL BE PLACED ALONG THE ENTIRE LENGTH.
6. THE SLOPE DITCH DRAWING THE STPD SHALL HAVE A 0.02% MINIMUM AND A 1.0% MAXIMUM GRADE ALONG THE STPD AND TO THE SEDIMENT PIT.
7. MITERED END SECTIONS ARE NOT REQUIRED WHEN THE SIDE DRAIN PIPE SATISFIES THE CLEAR ZONE REQUIREMENTS.
8. THE STPD SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM ITS FUNCTION. TO PREVENT OFF-SITE TRACKING, THE STPD SHALL BE RINSED (DAILY WHEN IN USE) TO MOVE ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STPD MAY BE REQUIRED TO LIMIT THE MUD TRACKING.
9. A STPD SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR SOIL TRACKING PREVENTION DEVICE, EA. THE UNIT PRICE SHALL CONSTITUTE FULL COMPENSATION FOR CONSTRUCTION, MAINTENANCE, REPLACEMENT OF MATERIALS, REMOVAL, AND RESTORATION OF THE AREA UTILIZED FOR THE STPD (INCLUDING MES WHEN REQUIRED), FILTER FABRIC, AGGREGATE, PAVED TURNOUT (INCLUDING ASPHALT AND BASE CONSTRUCTION), DITCH STABILIZATION, APPROACH ROUTE STABILIZATION, SEDIMENT REMOVAL AND DISPOSAL, WATER RINING AND CLEANING OF THE STPD AND CLEANING OF PUBLIC ROADS, GRASSING AND SOIL SYNTHETIC BALE OR BALE TYPE BARRIER SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR SYNTHETIC BALES. IF SILT FENCE SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE, LF.
10. THE NORMAL SIZE OF A STANDARD STPD IS 15'x50' UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE VOLUME OF ENTERING AND EXISTING VEHICLES WARRANTS, A 30' WIDE STPD MAY BE USED IF APPROVED BY THE ENGINEER. WHEN A DOUBLE WIDTH (30') STPD IS USED, THE PAY QUANTITY SHALL BE 2 FOR EACH LOCATION.

SOIL TRACKING PREVENTION DEVICE



EROSION CONTROL PLAN

1"=60'

ENGINEER OF RECORD

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REVISIONS AND UPDATES	
10/01/14	90% CONSTRUCTION DOCUMENTS
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09/20/12	SCHEMATIC PLANS

CAPE CANAVERAL LIGHTHOUSE FOUNDATION
LIGHTHOUSE KEEPER'S COTTAGES

LIGHTHOUSE RD CAPE CANAVERAL AFS, FL

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

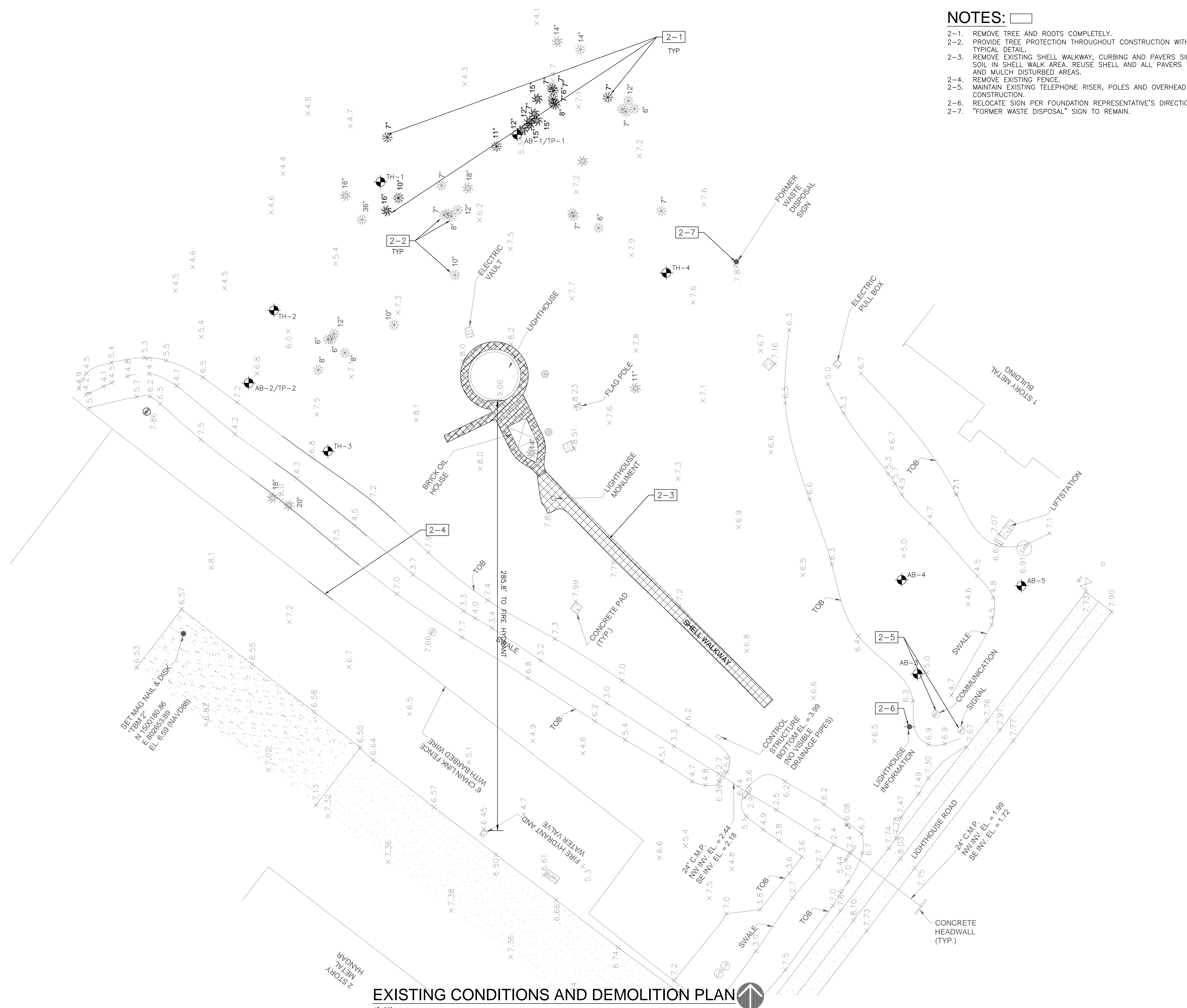
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job no. 130232

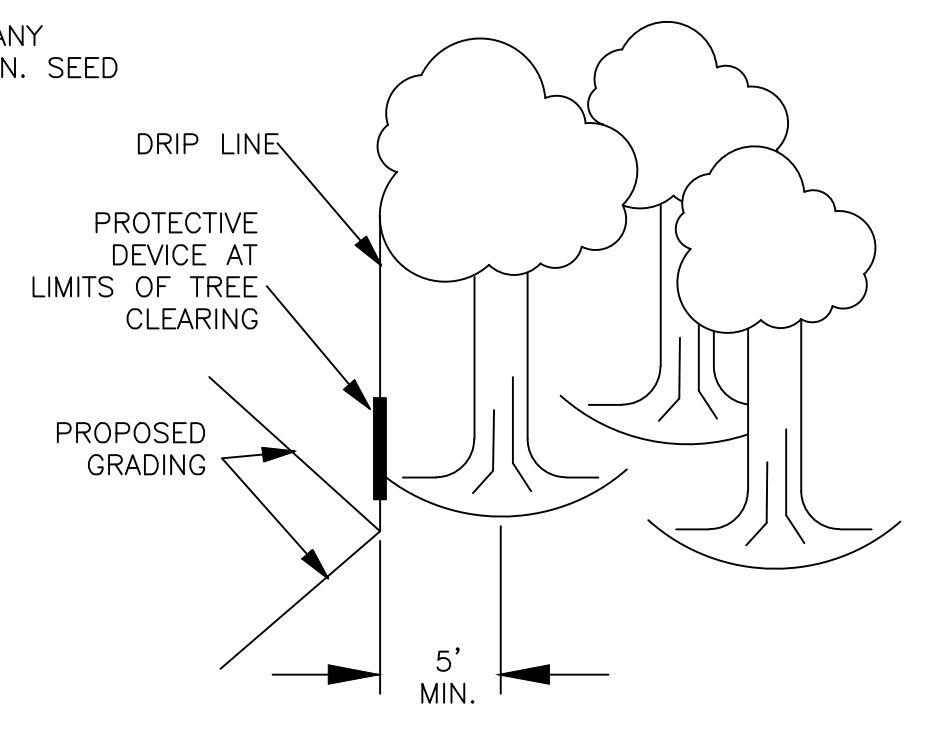
G-2
SCALE: 1"=60'

ARCHITECTS RZK, INC.
600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039



NOTES:

- 2-1. REMOVE TREE AND ROOTS COMPLETELY.
- 2-2. PROVIDE TREE PROTECTION THROUGHOUT CONSTRUCTION WITHIN PROJECT/LEASE AREA. SEE TYPICAL DETAIL.
- 2-3. REMOVE EXISTING SHELL WALKWAY, CURBING AND PAVERS SIDEWALK. DO NOT DISTURB ANY SOIL IN SHELL WALK AREA. REUSE SHELL AND ALL PAVERS FOR NEW WALKWAY LOCATION. SEED AND MULCH DISTURBED AREAS.
- 2-4. REMOVE EXISTING FENCE.
- 2-5. MAINTAIN EXISTING TELEPHONE RISER, POLES AND OVERHEAD WIRES THROUGHOUT CONSTRUCTION.
- 2-6. RELOCATE SIGN PER FOUNDATION REPRESENTATIVE'S DIRECTION.
- 2-7. "FORMER WASTE DISPOSAL" SIGN TO REMAIN.



NOTE:
 PROVIDE PROTECTIVE DEVICES WHICH WILL EFFECTIVELY PROTECT THE ROOTS, TRUNK, AND TOPS OF TREES RETAINED ON-SITE. THIS DEVICE SHALL BE FIELD FENCE, BOARD FENCE, CORD FENCE OR EQUAL AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

TYPICAL TREE PROTECTION
 NTS

SURVEYOR'S LEGEND

- G.P.S. = GLOBAL POSITIONING SYSTEM
- INC. = INCORPORATED
- LB = LICENSED BUSINESS
- NO. = NUMBER
- # = NUMBER
- P.S.M. = PROFESSIONAL SURVEYOR & MAPPER
- R.T.K. = REAL TIME KINEMATIC
- TYP. = TYPICAL
- WV = WATER VALVE
- SW = SANITARY MANHOLE
- MH = MANHOLE
- C/S = CLEAN OUT
- MW = MONITORING WELL
- BP = BACKFLOW PREVENTER
- X = CHAIN LINK FENCE
- [Pattern] = CONCRETE
- [Pattern] = ASPHALT
- [Pattern] = BRICK PAVERS
- [Symbol] = PALM TREE
- [Symbol] = OAK TREE



<p>CONSTRUCTION ENGINEERING GROUP consulting engineers</p>	2651 west eou galle, suite a Melbourne, FL 32935 tel. 321.253.1221 fax. 321.253.3123 www.ceengineering.com license #0008097	ENGINEER OF RECORD PRELIMINARY NOT FOR CONSTRUCTION
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REVISIONS AND UPDATES	
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CAPE CANAVERAL LIGHTHOUSE FOUNDATION
 LIGHTHOUSE KEEPER'S COTTAGES
 LIGHTHOUSE RD CAPE CANAVERAL AFS, FL
EXISTING CONDITIONS AND DEMOLITION PLAN

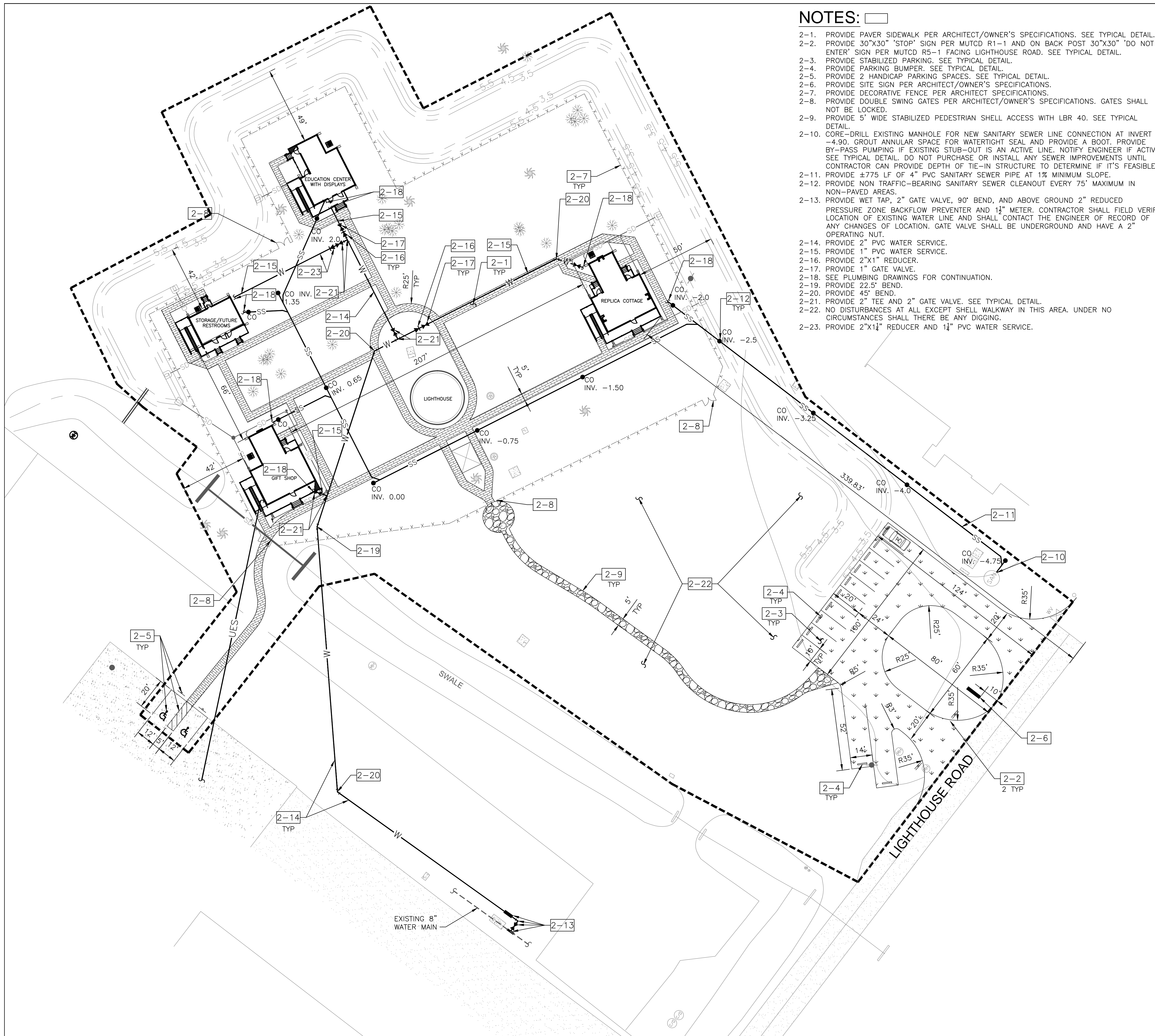
drawn DHF checked JTW approved DMT

RZK FOR REVIEW NOT FOR CONSTRUCTION
 AA-0001568

job no. 130232
C-1
 SCALE: 1"=30'

EXISTING CONDITIONS AND DEMOLITION PLAN

1"=30'



NOTES: □

- 2-1. PROVIDE PAVER SIDEWALK PER ARCHITECT/OWNER'S SPECIFICATIONS. SEE TYPICAL DETAIL.
- 2-2. PROVIDE 30"x30" "STOP" SIGN PER MUTCD R1-1 AND ON BACK POST 30"x30" "DO NOT ENTER" SIGN PER MUTCD R5-1 FACING LIGHTHOUSE ROAD. SEE TYPICAL DETAIL.
- 2-3. PROVIDE STABILIZED PARKING. SEE TYPICAL DETAIL.
- 2-4. PROVIDE PARKING BUMPER. SEE TYPICAL DETAIL.
- 2-5. PROVIDE 2 HANDICAP PARKING SPACES. SEE TYPICAL DETAIL.
- 2-6. PROVIDE SITE SIGN PER ARCHITECT/OWNER'S SPECIFICATIONS.
- 2-7. PROVIDE DECORATIVE FENCE PER ARCHITECT SPECIFICATIONS.
- 2-8. PROVIDE DOUBLE SWING GATES PER ARCHITECT/OWNER'S SPECIFICATIONS. GATES SHALL NOT BE LOCKED.
- 2-9. PROVIDE 5' WIDE STABILIZED PEDESTRIAN SHELL ACCESS WITH LBR 40. SEE TYPICAL DETAIL.
- 2-10. CORE-DRILL EXISTING MANHOLE FOR NEW SANITARY SEWER LINE CONNECTION AT INVERT -4.90. GROUT ANNULAR SPACE FOR WATERTIGHT SEAL AND PROVIDE A BOOT. PROVIDE BY-PASS PUMPING IF EXISTING STUB-OUT IS AN ACTIVE LINE. NOTIFY ENGINEER IF ACTIVE. SEE TYPICAL DETAIL. DO NOT PURCHASE OR INSTALL ANY SEWER IMPROVEMENTS UNTIL CONTRACTOR CAN PROVIDE DEPTH OF TIE-IN STRUCTURE TO DETERMINE IF IT'S FEASIBLE.
- 2-11. PROVIDE ±7.75 LF OF 4" PVC SANITARY SEWER PIPE AT 1% MINIMUM SLOPE.
- 2-12. PROVIDE NON TRAFFIC-BEARING SANITARY SEWER CLEANOUT EVERY 75' MAXIMUM IN NON-PAVED AREAS.
- 2-13. PROVIDE WET TAP, 2" GATE VALVE, 90° BEND, AND ABOVE GROUND 2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER AND 1½" METER. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING WATER LINE AND SHALL CONTACT THE ENGINEER OF RECORD OF ANY CHANGES OF LOCATION. GATE VALVE SHALL BE UNDERGROUND AND HAVE A 2" OPERATING NUT.
- 2-14. PROVIDE 2" PVC WATER SERVICE.
- 2-15. PROVIDE 1" PVC WATER SERVICE.
- 2-16. PROVIDE 2"x1" REDUCER.
- 2-17. PROVIDE 1" GATE VALVE.
- 2-18. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 2-19. PROVIDE 22.5' BEND.
- 2-20. PROVIDE 45' BEND.
- 2-21. PROVIDE 2" TEE AND 2" GATE VALVE. SEE TYPICAL DETAIL.
- 2-22. NO DISTURBANCES AT ALL EXCEPT SHELL WALKWAY IN THIS AREA. UNDER NO CIRCUMSTANCES SHALL THERE BE ANY DIGGING.
- 2-23. PROVIDE 2"x1½" REDUCER AND 1½" PVC WATER SERVICE.

GENERAL NOTES: (ALL DRAWINGS)

- 1. SEE TYPICAL DETAILS ON FOLLOWING SHEETS FOR ADDITIONAL CONSTRUCTION DETAIL INFORMATION.
- 2. CONTRACTOR SHALL BECOME FAMILIAR AND COMPLY WITH ALL PERMITS AND PERMIT CONDITIONS. CONTRACTOR SHALL OBTAIN PERMISSION FROM CEG OR ALL PERMIT AGENCIES IDENTIFIED IN SPECIFICATIONS PRIOR TO COMMENCING SITE WORK.
- 3. ALL AREAS DISTURBED OFF-SITE SHALL BE RESTORED TO EQUAL OR BETTER CONDITION THAN PRE-CONSTRUCTION WITH SAME TYPE OF SOD AS EXISTING.
- 4. CONTRACTOR SHALL COMPLY WITH ALL RECOMMENDATIONS OF ARDAMAN & ASSOC. ENGINEERING SUBSURFACE EXPLORATION REPORT FOR THIS SITE. CONTRACTOR SHALL OBTAIN FROM CEG OR THE GEOTECHNICAL COMPANY.
- 5. SLOPE ALL SIDEWALKS TO FLOW AWAY FROM BUILDING WITH MAXIMUM 2% CROSS SLOPE.
- 6. PROVIDE CONSTANT SLOPE BETWEEN ALL SPOT ELEVATIONS.
- 7. UTILITY LENGTHS ARE APPROXIMATE BASED ON FIELD OBSERVATIONS AND AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, DEPTH, AND MATERIAL OF EXISTING UTILITIES. PROVIDE ADDITIONAL PIPING AND FITTINGS AS NECESSARY. NOTIFY ENGINEER OF SIGNIFICANT INCREASES.
- 8. NOTIFY ENGINEER MINIMUM 72 HOURS (WEEKDAYS) PRIOR TO MAKING UTILITY CONNECTIONS OR BACK FILLING UTILITY TRENCHES FOR INSPECTION. IF NOT NOTIFIED, CONTRACTOR SHALL EXPOSE LINES PER ENGINEER'S REQUEST FOR INSPECTIONS.
- 9. ALL TRAFFIC SIGNS SHALL BE INSTALLED PER STANDARD FDOT INDEX NOS. 11865 AND 17302.
- 10. CONTRACTOR SHALL CLEAR AND GRUB ALL VEGETATION ON-SITE EXCEPT TREES SHOWN TO REMAIN ON DWG C-1 OR LANDSCAPE PLANS.
- 11. PROVIDE SILT FENCE PER FDOT INDEX NO. 102 ALONG ENTIRE PERIMETER OF PROJECT AREA EXCLUDING ENTRANCE DRIVEWAYS OR AS SHOWN ON DRAWING G-2.
- 12. ALL WASTE SHALL BE DISPOSED OF OFF-SITE IN A SAFE AND LEGAL MANNER UNLESS OWNER SPECIFICALLY REQUESTS OTHERWISE.
- 13. FOR DEMOLITION OF ALL ASPHALT AND CONCRETE MATERIALS, SAWCUT EDGES FOR SMOOTH STRAIGHT EDGE. ALSO SAWCUT ALL EXISTING PAVEMENT EDGES FOR SMOOTH STRAIGHT EDGE AT ALL TIE-IN POINTS WITH NEW PAVEMENT OR CONCRETE.
- 14. CONTRACTOR SHALL VERIFY ON-SITE PRIOR TO BIDDING WORK THE FULL EXTENT OF DEMOLITION REQUIRED BASED ON SITE PLAN CONSTRUCTION DRAWINGS. ALL ITEMS SHALL BE INCLUDED IN BASE BID.
- 15. REMOVE ALL ABOVE GROUND IMPROVEMENTS IN AREAS SHOWN FOR DEMOLITION UNLESS SPECIFICALLY IDENTIFIED OTHERWISE.
- 16. SEE ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUTS AND MECHANICAL/PLUMBING DWGS FOR EXACT UTILITY CONNECTION LOCATIONS.
- 17. ALL SLOPES 4H:1V OR STEEPER SHALL BE SODDED. ALL SLOPES STEEPER THEN 3H:1V SHALL BE SODDED AND STAKED. SOD ALL DISTURBED AREAS.
- 18. CONTRACTOR SHALL PROVIDE ALL FITTINGS REQUIRED TO INSTALL UTILITIES PER PLAN.
- 19. CONTACT UNDERGROUND UTILITIES LOCATE BEFORE COMMENCING ANY DIGGING A MINIMUM OF 48 HOURS IN ADVANCE AT 811.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ROADWAYS, EASEMENTS, CURBS, SIDEWALKS, DRAINAGE SYSTEM, BENCHMARKS, OR UTILITIES AS A DIRECT RESULT OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL BOUNDARY CORNERS AND BENCHMARKS DISTURBED OR DESTROYED DURING CONSTRUCTION REPLACED BY A FLORIDA LICENSED LAND SURVEYOR.
- 21. ALL EXCAVATIONS OF GREATER DEPTH THAN 5' SHALL COMPLY WITH THE CURRENT OSHA TRENCH SAFETY STANDARDS 29 C.F.R. s. 1926.650 SUBPART P. ANY EXCAVATION WITHIN THE CLEARZONE SHALL ALSO COMPLY WITH ALL WARNING AND/OR BARRIER REQUIREMENTS OF FDOT INDEX NO. 600.
- 22. CONSTRUCTION ENGINEERING GROUP DOES NOT WARRANT THE ACCURACY OF THE RECORD SURVEY.
- 23. DURING CONSTRUCTION ALL COATING, SOLVENTS, SEALANTS, ETC. ARE MANAGED PER MANAGEMENT PLAN 19-14.
- 24. ASBESTOS CONTAINING MATERIALS AND LEAD PAINTS ARE NOT USED IN CONSTRUCTION. REASONABLE PRECAUTION SHOULD BE TAKEN TO MINIMIZE EMISSION OF UNCONFINED PARTICULATE MATTER (DUST) DURING CONSTRUCTION.
- 25. ALL FEATURES THAT ARE NOT REQUIRED TO COMPLY WITH STATE OF FLORIDA HISTORICAL PRESERVATION OFFICE, MUST COMPLY WITH 45 SW FACILITIES EXCELLENCE PLAN IN FUNCTION AND ARCHITECTURAL FINISH. APPLIES PRIMARILY TO COLOR AND SIGNAGE.

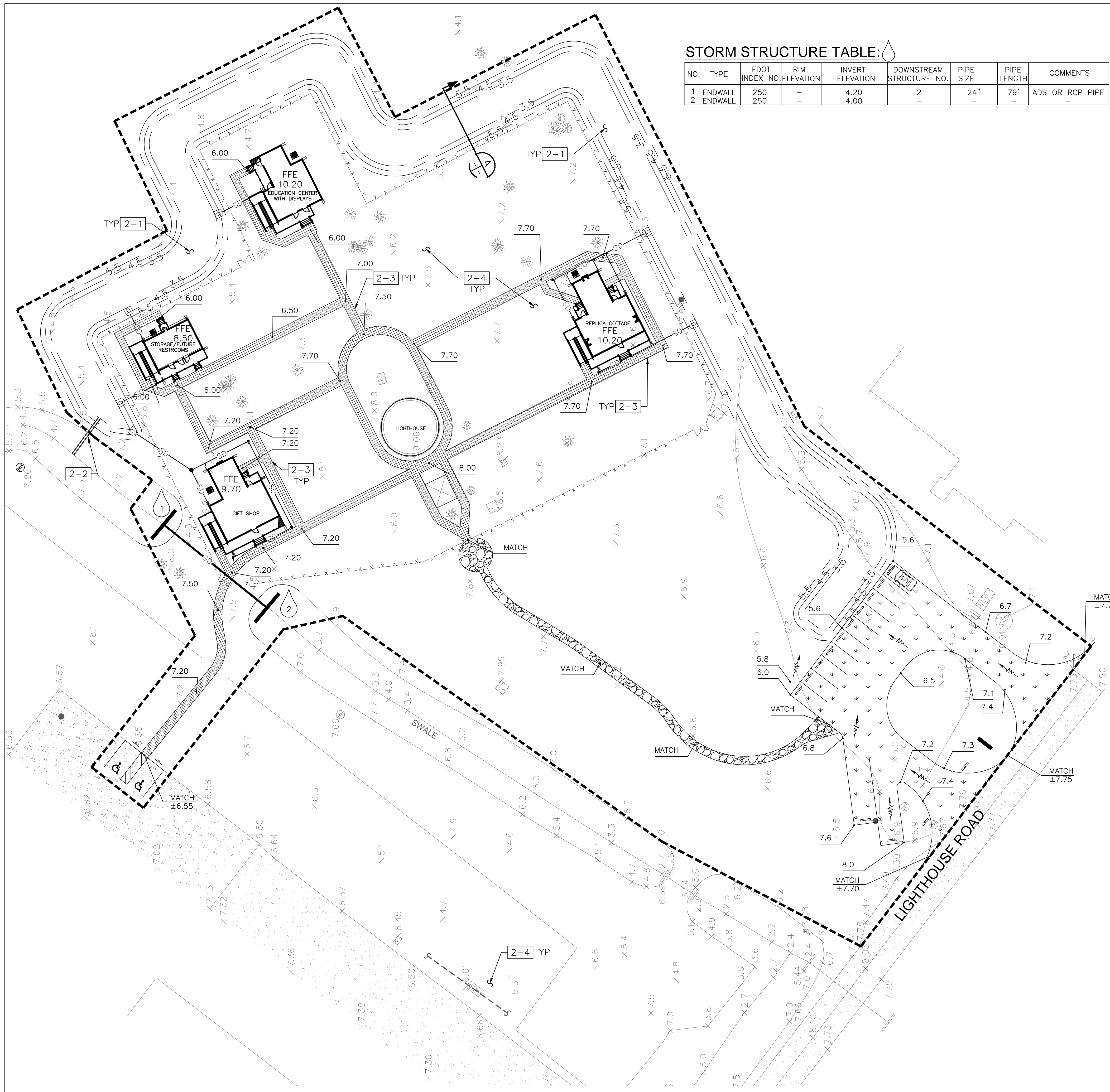


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<p>drawn DHF</p>	<p>checked JTW</p>	<p>approved DMT</p>
<p> FOR REVIEW NOT FOR CONSTRUCTION</p> <p>AA-C001568</p>	<p>job no. 130232</p> <p>C-2</p> <p>SCALE: 1"=30'</p>	<p>ARCHITECTS RZK, INC.</p> <p>600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039</p>

SITE AND UTILITY PLAN
1"=30'

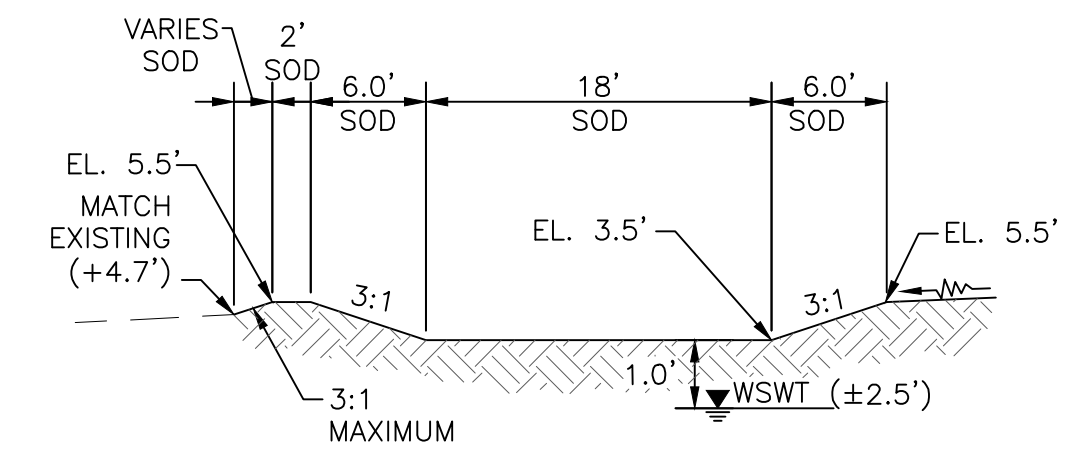


STORM STRUCTURE TABLE:

NO.	TYPE	FDOT INDEX NO.	RIM ELEVATION	INVERT ELEVATION	DOWNSTREAM STRUCTURE NO.	PIPE SIZE	PIPE LENGTH	COMMENTS
1	ENDWALL	250	-	4.20	2	24"	79'	ADS OR RCP PIPE
2	ENDWALL	250	-	4.00	-	-	-	-

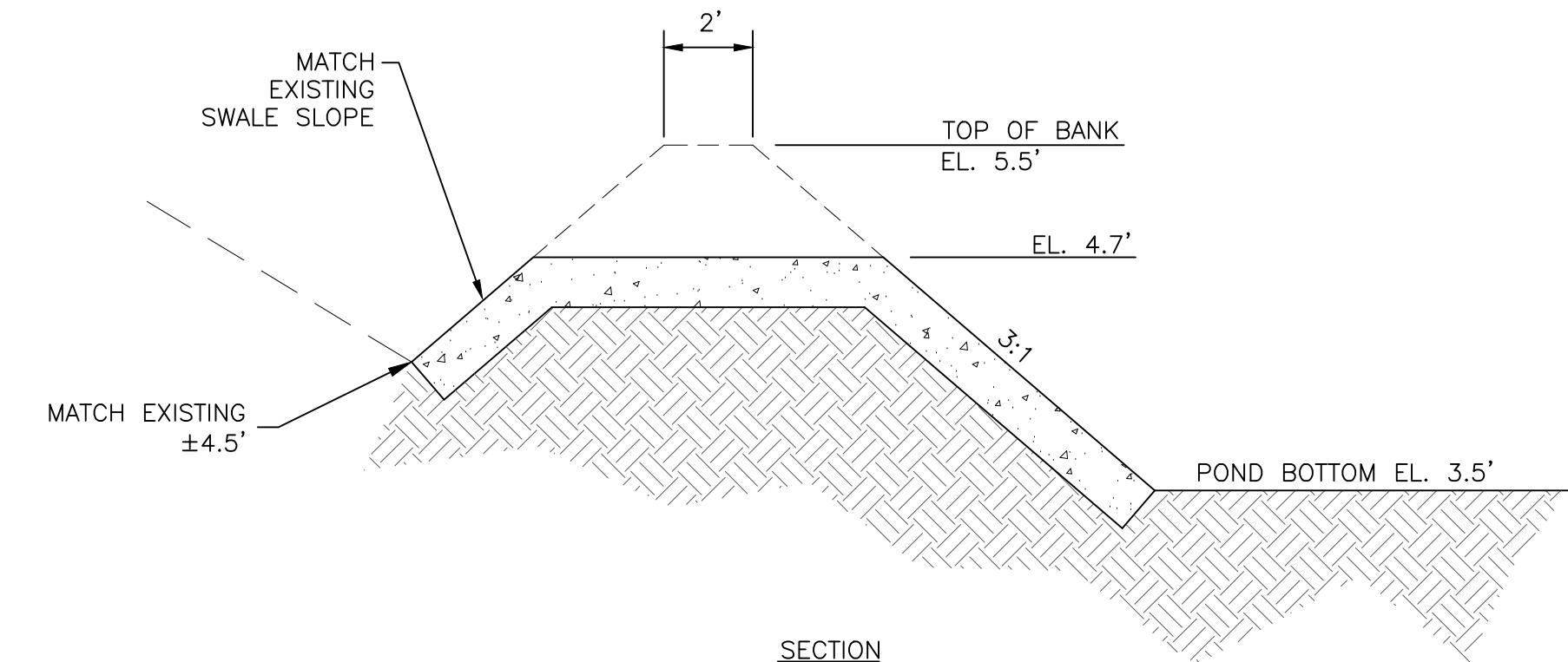
NOTES:

- 2-1. PROVIDE GRASSED SWALE, SEE TYPICAL SECTION.
- 2-2. PROVIDE CONCRETE OVERFLOW WEIR, SEE TYPICAL DETAIL THIS DRAWING.
- 2-3. BRICK PAVEMENT WALKWAYS SHALL BE SLOPED AWAY FROM BUILDING.
- 2-4. SOD ALL DISTURBED AREAS OUTSIDE OF SWALE WITH BAHIA SOD.

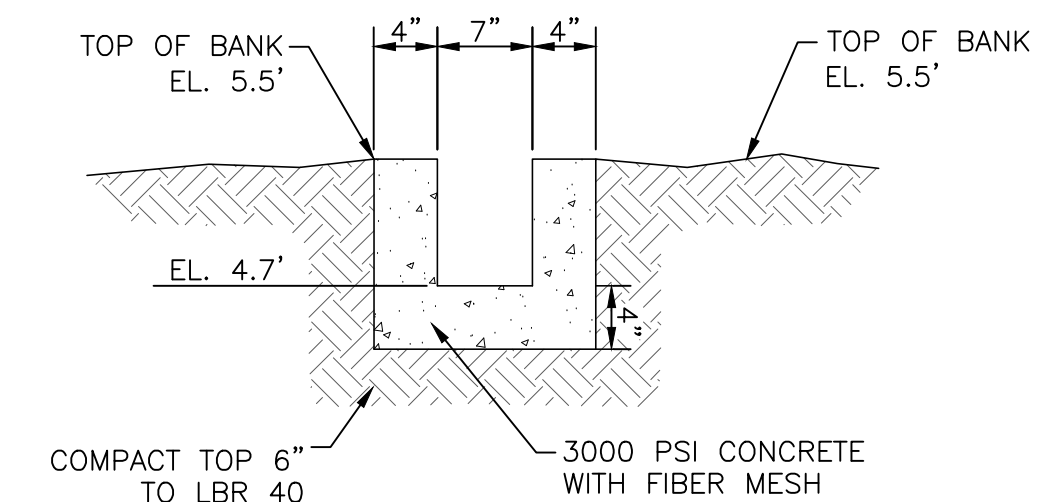


NOTE: ALL SOD ON BOTTOM OF SWALE SHALL BE SAND GROWN BAHIA AND SHALL BE PINNED WHEN ON A 3:1 SLOPE.

SECTION A-A
NTS



SECTION



END VIEW

TYPICAL CONCRETE WEIR DETAIL

NTS



GRADING AND DRAINAGE PLAN
1"=30'

<p>CONSTRUCTION ENGINEERING GROUP consulting engineers</p>	<p>2651 west eou galie, suite a melbourne, fl 32935</p> <p>tel. 321.253.1221 fax. 321.253.3123 www.ceengineering.com license #0008097</p>	ENGINEER OF RECORD
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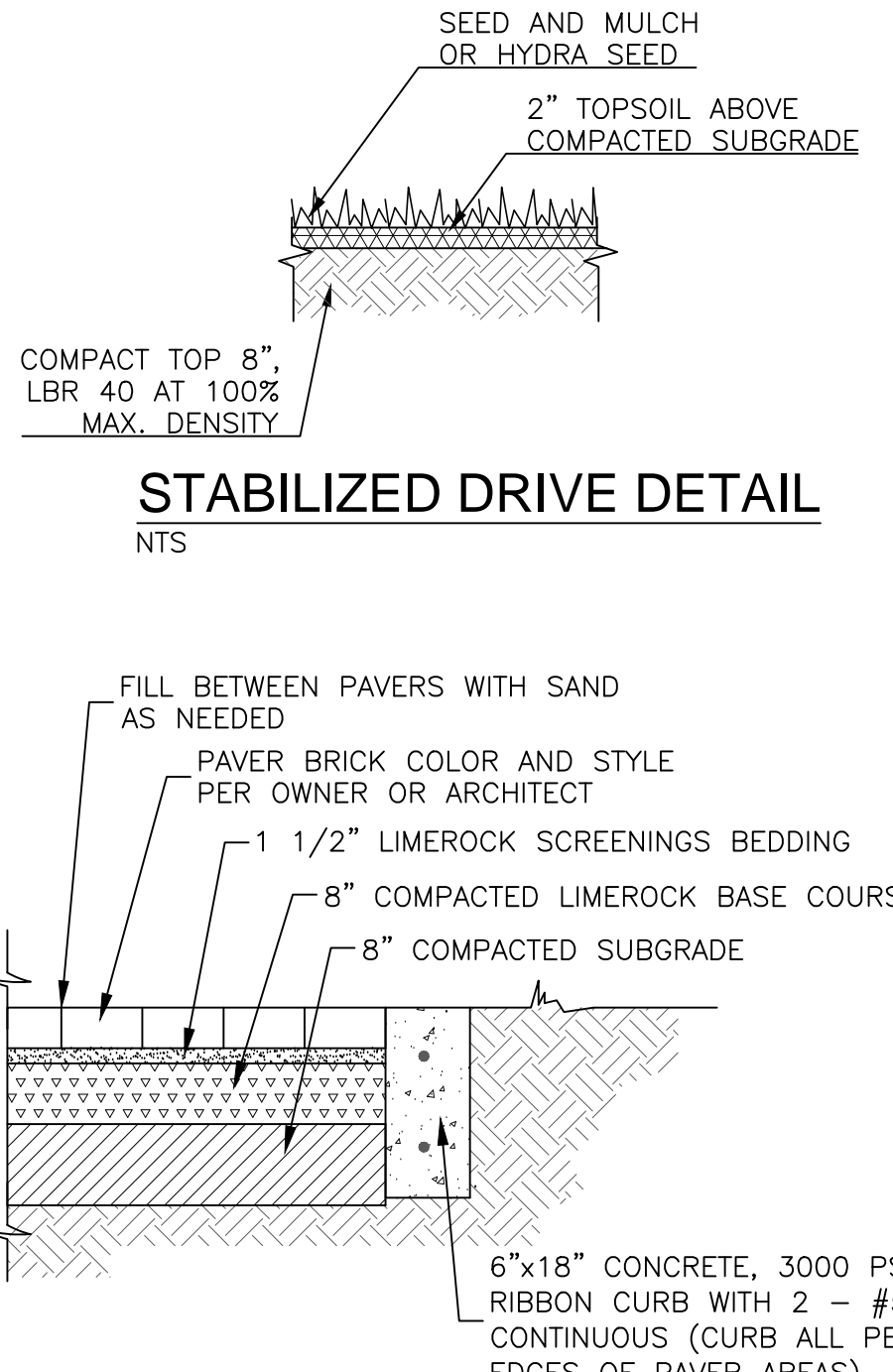
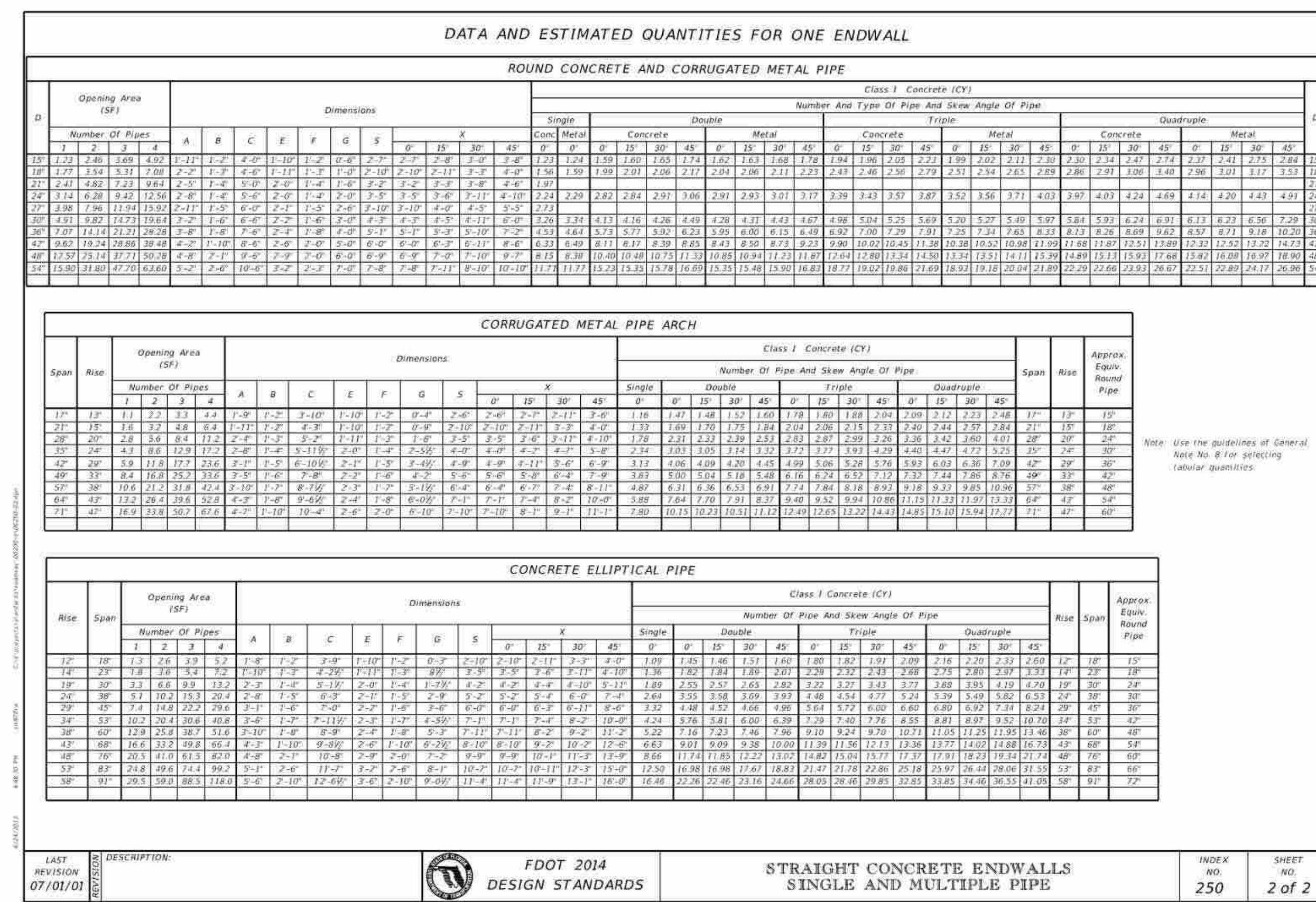
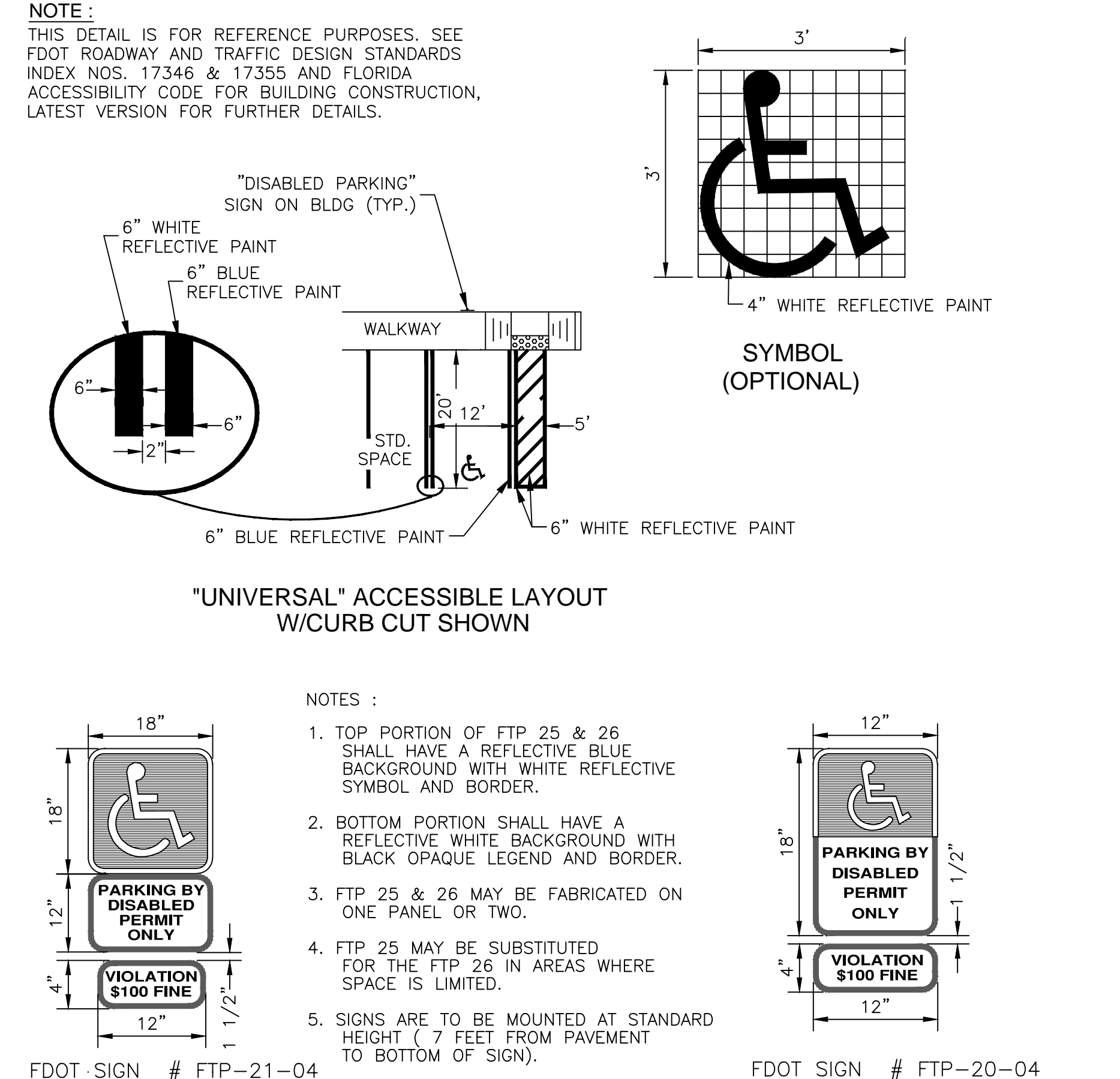
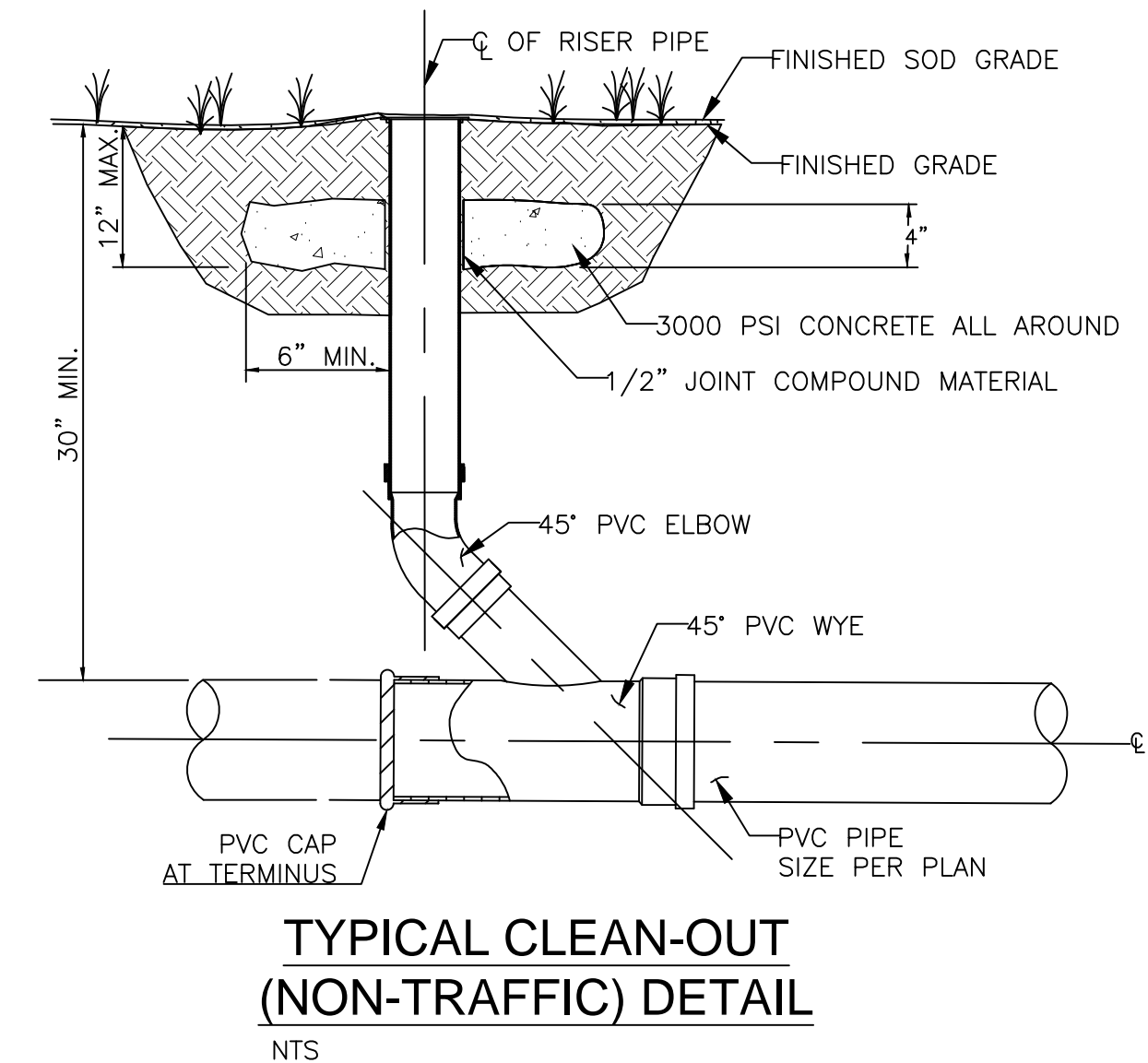
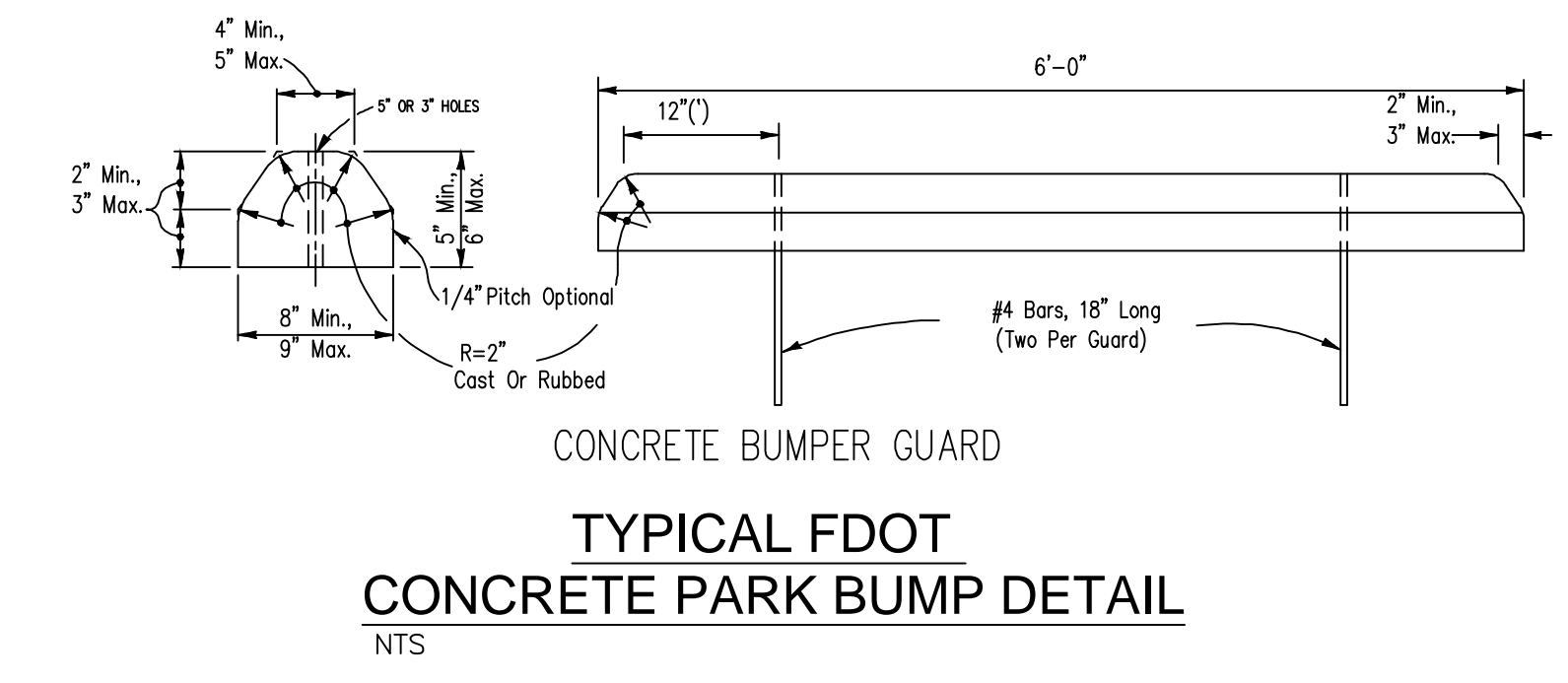
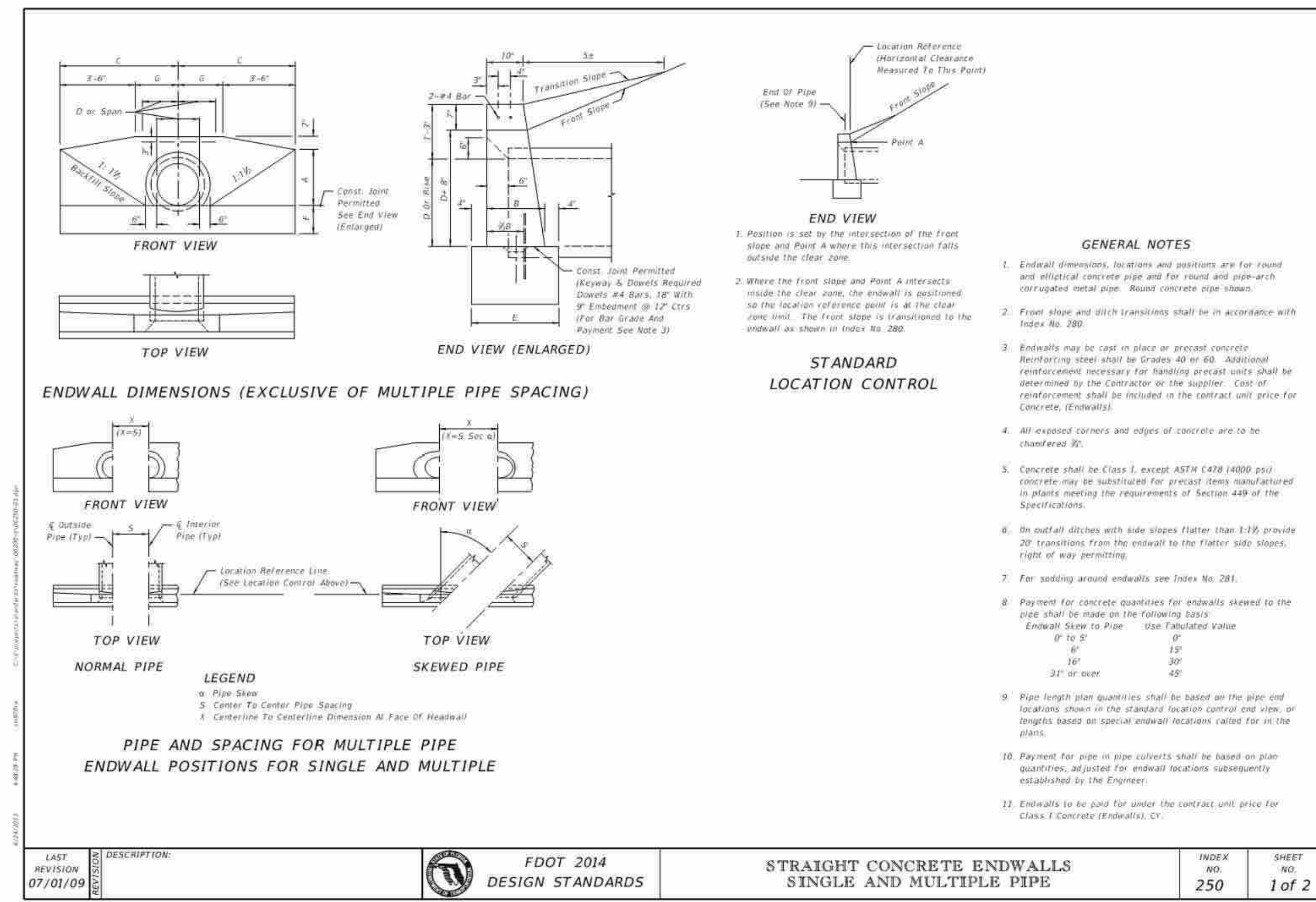
REVISIONS AND UPDATES

DATE	DESCRIPTION
10/01/14	90% CONSTRUCTION DOCUMENTS
06/18/14	PROGRESS SET
03/21/14	DESIGN DEVELOPMENT SET
09/20/12	SCHEMATIC PLANS

CAPE CANAVERAL LIGHTHOUSE FOUNDATION
LIGHTHOUSE KEEPER'S COTTAGES
LIGHTHOUSE RD CAPE CANAVERAL AFS, FL
GRADING AND DRAINAGE PLAN

drawn DHF checked JTW approved DMT

<p>RZK AA-C001568</p>	<p>FOR REVIEW NOT FOR CONSTRUCTION</p>	<p>job no. 130232 C-3 SCALE: 1"=30'</p>
	<p>ARCHITECTS RZK, INC. 600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039</p>	



NOTES:

- BASE COURSE AVERAGE LBR SHALL NOT BE LESS THAN 100. COMPACT TO 98% MAX DENSITY PER AASHTO T-190, MODIFIED PROCTOR.
- SUBGRADE SHALL BE STABILIZED TO LBR 40 PER FDOT STANDARD SPECIFICATIONS 160-2. COMPACTOR SHALL BE PROVIDED PER FDOT STANDARD SPECIFICATIONS SECTION 160-8.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CONTACT MANUFACTURER BEFORE BEGINNING BASE, PAVER, OR RIBBON CURB INSTALLATION FOR RECOMMENDATIONS. NOTIFY ENGINEER OF ANY PROPOSED CHANGES.



TYPICAL HANDICAP PARKING AND SIGNAGE DETAIL
NTS

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ENGINEER OF RECORD

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REVISIONS AND UPDATES

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LIGHTHOUSE RD CAPE CANAVERAL AFS, FL

DETAILS

drawn DHF checked JTW approved DMT

RZK FOR REVIEW NOT FOR CONSTRUCTION

job no. 130232

C-4
SCALE: NTS

ARCHITECTS RZK, INC.
600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039

ALL FDOT DETAILS ARE FOR REFERENCE ONLY AND CONTRACTOR SHALL REFER TO THE LATEST FDOT DESIGN STANDARDS BOOK FOR LATEST DETAILS.

CONCRETE

- ALL CONCRETE STRENGTHS SHALL BE AS FOLLOWS WITH BROOM FINISH UNLESS IDENTIFIED OTHERWISE:
FOUNDATIONS & SLABS ON GRADE _____ 3000 PSI
MASONRY GROUT AND UNREINFORCED CONCRETE _____ 3000 PSI
- ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60 (FY=60 KSI).
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE LAPPED ONE FULL MESH PANEL PLUS 2 IN. AT SIDES AND ENDS AND BE WIRED TOGETHER. FIBER MESH MAY BE SUBSTITUTED PER DIRECTION OF ENGINEER AT REQUEST OF CONTRACTOR.
- CALCIUM CHLORIDE SHALL NOT BE USED IN ANY FORM.
- ADDITION OF WATER TO CONCRETE AT THE JOB SITE SHALL BE PROHIBITED.
- ALL CONCRETE WORK SHALL COMPLY WITH PROVISIONS OF ACI 318, 315, AND 301, LATEST EDITIONS, UNLESS OTHERWISE NOTED.
- REINFORCING FOR CONTINUOUS FOUNDATIONS AND BEAMS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS. PROVIDE SPLICE BARS AND/OR HOOK ENDS FOR CONTINUOUS REINFORCING.
- MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS:
STRUCTURAL ELEMENT _____ MIN CLEAR COVER
FOOTINGS, (CAST AGAINST & PERMANENTLY EXPOSED TO EARTH) _____ 3 INCHES
SLABS (IN CONTACT WITH EARTH) _____ 2 INCHES

FDEP WATER SPECIFICATIONS

- ALL PIPE, PIPE FITTINGS, PIPE JOINT PACKING AND JOINTING MATERIALS, VALVES, FIRE HYDRANTS, AND METERS INSTALLED UNDER THIS PROJECT WILL CONFORM TO APPLICABLE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS. [FAC 62-555.330(2)(B), RSWW 8.0, AND AWWA STANDARDS AS INCORPORATED INTO FAC 62-555.330, EXCEPTIONS ALLOWED UNDER FAC 62-555.320(21)(C)]
- ALL PUBLIC WATER SYSTEM COMPONENTS, EXCLUDING FIRE HYDRANTS, THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL COME INTO CONTACT WITH DRINKING WATER WILL CONFORM TO NSF INTERNATIONAL STANDARD 61 AS ADOPTED IN RULE 62-555.335, F.A.C., OR OTHER APPLICABLE STANDARDS, REGULATIONS, OR REQUIREMENTS REFERENCED IN PARAGRAPH 62-555.320(3)(B), F.A.C. [FAC 62-555.320(3)(B); EXCEPTIONS ALLOWED UNDER FAC 62-555.320(3)(D)]
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL CONTAIN NO MORE THAN 8.0% LEAD, AND ANY SOLDER OR FLUX USED IN THIS PROJECT WILL CONTAIN NO MORE THAN 0.2% LEAD. [FAC 62-555.322]
- ALL PIPE AND PIPE FITTINGS INSTALLED UNDER THIS PROJECT WILL BE COLOR CODED OR MARKED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320(2)(B)3, F.A.C., USING BLUE AS A PREDOMINANT COLOR. (UNDERGROUND PLASTIC PIPE WILL BE SOLID-WALL BLUE PIPE, WILL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR WILL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL; AND UNDERGROUND METAL OR CONCRETE PIPE WILL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPPED DURING MANUFACTURING OF THE PIPE WILL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT ARE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT WILL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE; FOR PIPE WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT WILL BE APPLIED IN CONTINUOUS LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP OF THE PIPE. ABOVEGROUND PIPE WILL BE PAINTED BLUE OR WILL BE COLOR CODED OR MARKED LIKE UNDERGROUND PIPE.) [FAC 62-555.320(21)(B)3]
- ALL FIRE HYDRANTS THAT WILL BE INSTALLED UNDER THIS PROJECT AND THAT WILL HAVE UNPLUGGED, UNDERGROUND DRAINS WILL BE LOCATED AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., OR VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET FROM ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-10, F.A.C.; AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM." [FAC 62-555.314(4)]
- NEW OR ALTERED CHAMBERS, PITS, OR MANHOLES THAT CONTAIN VALVES, BLOW-OFFS, METERS, OR OTHER SUCH WATER DISTRIBUTION SYSTEM APPURTENANCES AND THAT ARE INCLUDED IN THIS PROJECT WILL NOT BE CONNECTED DIRECTLY TO ANY SANITARY OR STORM SEWER, AND BLOW-OFFS OR AIR RELIEF VALVES INSTALLED UNDER THIS PROJECT WILL NOT BE CONNECTED DIRECTLY TO ANY SANITARY OR STORM SEWER. [FAC 62-555.320(21)(B) AND RSWW 8.4.3]
- NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT WILL BE INSTALLED IN ACCORDANCE WITH APPLICABLE AWWA STANDARDS OR IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDED PROCEDURES. [FAC 62-555.320(21)(B), RSWW 8.5.1, AND AWWA STANDARDS AS INCORPORATED INTO FAC 62-555.330]
- A CONTINUOUS AND UNIFORM BEDDING WILL BE PROVIDED IN TRENCHES FOR UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT. BACKFILL MATERIAL WILL BE TAMPED IN LAYERS AROUND UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT AND TO A SUFFICIENT HEIGHT ABOVE THE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE, AND UNSUITABLY SIZED STONES (AS DESCRIBED IN APPLICABLE AWWA STANDARDS OR MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES) FOUND IN TRENCHES WILL BE REMOVED FOR A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF UNDERGROUND PIPE INSTALLED UNDER THIS PROJECT. [FAC 62-555.320(21)(B), RSWW 8.5.2]
- NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL BE CONSTRUCTED OF ASBESTOS-CEMENT OR POLYVINYL CHLORIDE PIPE WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD C603 OR C605, RESPECTIVELY, AS INCORPORATED INTO RULE 62-555.330, F.A.C., AND ALL OTHER NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT WILL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA STANDARD G600 AS INCORPORATED INTO RULE 62-555.330. [FAC 62-555.320(21)(B)1 AND AWWA STANDARDS AS INCORPORATED INTO FAC 62-555.330]
- NEW OR ALTERED WATER MAINS, INCLUDING FIRE HYDRANT LEADS AND INCLUDING SERVICE LINES THAT WILL BE UNDER THE CONTROL OF A PUBLIC WATER SYSTEM AND THAT HAVE AN INSIDE DIAMETER OF THREE INCHES OR GREATER, WILL BE DISINFECTED AND BACTERIOLOGICALLY EVALUATED IN ACCORDANCE WITH RULE 62-555.340, F.A.C. [FAC 62-555.320(21)(B)2 AND FAC 62-555.340]
- NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL BE INSTALLED IN AREAS WHERE THERE ARE KNOWN AGGRESSIVE SOIL CONDITIONS WILL BE PROTECTED THROUGH USE OF CORROSION-RESISTANT WATER MAIN MATERIALS, THROUGH ENCASEMENT OF THE WATER MAINS IN POLYETHYLENE, OR THROUGH PROVISION OF CATHODIC PROTECTION. [FAC 62-555.320(21)(B) AND RSWW 8.5.7.D]
- NEW OR RELOCATED, UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT WILL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER (OR A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-TYPE SANITARY SEWER IF THE BOTTOM OF THE WATER MAIN WILL BE LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER); A HORIZONTAL DISTANCE OF AT LEAST SIX FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.; AND A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM." [FAC 62-555.314(1); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]
- NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE; AND NEW OR RELOCATED, UNDERGROUND WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]
- AT THE UTILITY CROSSINGS DESCRIBED IN PART II.C.1.W ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)]
- NEW OR ALTERED WATER MAINS THAT ARE INCLUDED IN THIS PROJECT AND THAT WILL CROSS UNDER SURFACE WATER COURSES GREATER THAN 15 FEET IN WIDTH WILL HAVE FLEXIBLE OR RESTRAINED, WATERTIGHT PIPE JOINTS AND WILL INCLUDE VALVES AT BOTH ENDS OF THE WATER CROSSING SO THE UNDERWATER MAIN CAN BE ISOLATED FOR TESTING AND REPAIR; THE AFOREMENTIONED ISOLATION VALVES WILL BE EASILY ACCESSIBLE AND WILL NOT BE SUBJECT TO FLOODING; THE ISOLATION VALVE CLOSEST TO THE WATER SUPPLY SOURCE WILL BE IN A MANHOLE; AND PERMANENT TAPS WILL BE PROVIDED ON EACH SIDE OF THE ISOLATION VALVE WITHIN THE MANHOLE TO ALLOW FOR INSERTION OF A SMALL METER TO DETERMINE LEAKAGE FROM THE UNDERWATER MAIN AND TO ALLOW FOR SAMPLING OF WATER FROM THE UNDERWATER MAIN. [FAC 62-555.320(21)(B) AND RSWW 8.7.2]
- THIS PROJECT IS BEING DESIGNED TO INCLUDE PROPER BACKFLOW PROTECTION AT THOSE NEW OR ALTERED SERVICE CONNECTIONS WHERE BACKFLOW PROTECTION IS REQUIRED OR RECOMMENDED UNDER RULE 62-555.360, F.A.C., OR IN RECOMMENDED PRACTICE FOR BACKFLOW PREVENTION AND CROSS-CONNECTION CONTROL, AWWA MANUAL M14, AS INCORPORATED INTO RULE 62-555.330, F.A.C.; OR THE PUBLIC WATER SYSTEM THAT WILL OWN THIS PROJECT AFTER IT IS PLACED INTO OPERATION HAS A CROSS-CONNECTION CONTROL PROGRAM REQUIRING WATER CUSTOMERS TO INSTALL PROPER BACKFLOW PROTECTION AT THOSE SERVICE CONNECTIONS WHERE BACKFLOW PROTECTION IS REQUIRED OR RECOMMENDED UNDER RULE 62-555.360, F.A.C., OR IN AWWA MANUAL M14. [FAC 62-555.360 AND AWWA MANUAL M14 AS INCORPORATED INTO FAC 62-555.330]
- NEITHER STEAM CONDENSATE, COOLING WATER FROM ENGINE JACKETS, NOR WATER USED IN CONJUNCTION WITH HEAT EXCHANGERS WILL BE RETURNED TO THE NEW OR ALTERED WATER MAINS INCLUDED IN THIS PROJECT. [FAC 62-555.320(21)(B) AND RSWW 8.8.2]

FDEP WASTEWATER SPECIFICATIONS

- APPROPRIATE DEFLECTION TESTS ARE SPECIFIED FOR ALL FLEXIBLE PIPE. TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM. TESTING REQUIREMENTS SPECIFY:
1) NO PIPE SHALL EXCEED A DEFLECTION OF 5%; 2) USING A RIGID BALL OR MANDREL FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO FULL THE PIPE IS MANUFACTURED; AND 3) PERFORMING THE TEST WITHOUT MECHANICAL PULLING DEVICES. [RSWF 33.85]
- LEAKAGE TESTS ARE SPECIFIED REQUIRING THAT: 1) THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM; 2) EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET; AND 3) AIR TESTS, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C 924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. [RSWF 33.93, 33.94, AND 33.95]
- DESIGN REQUIRES DROP PIPES TO BE PROVIDED FOR SEWERS ENTERING MANHOLES AT ELEVATIONS OF 24 INCHES OR MORE ABOVE THE MANHOLE INVERT; WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INCOMING SEWER AND THE MANHOLE INVERT IS LESS THAN 24 INCHES, THE INVERT IS DESIGNED WITH A FILLET TO PREVENT SOLIDS DEPOSITION. INSIDE DROP CONNECTIONS (WHEN NECESSARY) ARE DESIGNED TO BE SECURED TO THE INTERIOR WALL OF THE MANHOLE AND PROVIDE ACCESS FOR CLEANING. DESIGN REQUIRES THE ENTIRE OUTSIDE DROP CONNECTION BE ENCASED IN CONCRETE. [RSWF 34.2]
- DESIGN REQUIRES THAT A BENCH BE PROVIDED ON EACH SIDE OF ANY MANHOLE CHANNEL WHEN THE PIPE DIAMETER(S) ARE LESS THAN THE MANHOLE DIAMETER AND THAT NO LATERAL SEWER SERVICE CONNECTION, OR DROP MANHOLE PIPE DISCHARGES ONTO THE SURFACE OF THE BENCH. [RSWF 34.5]
- DESIGN REQUIRES: 1) MANHOLE LIFT HOLES AND GRADE ADJUSTMENT RINGS BE SEALED WITH NON-SHRINKING MORTAR OR OTHER APPROPRIATE MATERIAL; 2) INLET AND OUTLET PIPES BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATERTIGHT CONNECTION OR ANOTHER WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL; AND 3) WATERTIGHT MANHOLE COVERS BE USED WHEREVER THE MANHOLE TOPS MAY BE FLOODED BY SURFACE RUNOFF OR HIGH WATER. [RSWF 34.6]
- MANHOLE INSPECTION AND TESTING FOR WATERTIGHTNESS OR DAMAGE PRIOR TO PLACING INTO SERVICE ARE SPECIFIED. AIR TESTING, IF SPECIFIED FOR CONCRETE SEWER MANHOLES, CONFORMS TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244. [RSWF 34.7]
- THE DESIGN REQUIRES 1) ELECTRICAL SYSTEMS AND COMPONENTS (E.G., MOTORS, LIGHTS, CABLES, CONDUITS, SWITCH BOXES, CONTROL CIRCUITS, ETC.) IN RAW WASTEWATER WET WELLS, OR IN ENCLOSED OR PARTIALLY ENCLOSED SPACES WHERE HAZARDOUS CONCENTRATIONS OF FLAMMABLE GASES OR VAPORS MAY BE PRESENT, COMPLY WITH THE NATIONAL ELECTRICAL CODE REQUIREMENTS FOR CLASS I GROUP D, DIVISION 1 LOCATIONS; 2) ELECTRICAL EQUIPMENT LOCATED IN WET WELLS BE SUITABLE FOR USE UNDER CORROSIVE CONDITIONS; 3) EACH FLEXIBLE CABLE BE PROVIDED WITH A WATERTIGHT SEAL AND SEPARATE STRAIN RELIEF; 4) A FUSED DISCONNECT SWITCH LOCATED ABOVE GROUND BE PROVIDED FOR THE MAIN POWER FEED FOR ALL PUMP STATIONS; 5) ELECTRICAL EQUIPMENT EXPOSED TO WEATHER TO MEET THE REQUIREMENTS OF WEATHERPROOF EQUIPMENT NEMA 3R OR 4; 6) A 110 VOLT POWER RECEPTACLE TO FACILITATE MAINTENANCE PROVIDED INSIDE THE CONTROL PANEL FOR PUMP STATIONS THAT HAVE CONTROL PANELS OUTDOORS; AND 7) GROUND FAULT INTERRUPTION PROTECTION BE PROVIDED FOR ALL OUTDOOR OUTLETS. [RSWF 42.35]
- THE DESIGN REQUIRES WET WELL FLOORS HAVE A MINIMUM SLOPE OF 1 TO 1 TO THE HOPPER BOTTOM AND THE HORIZONTAL AREA OF HOPPER BOTTOMS BE NO GREATER THAN NECESSARY FOR PROPER INSTALLATION AND FUNCTION OF THE INLET. [RSWF 42.63]
- THE DESIGN REQUIRES PUMP STATIONS BE ENCLOSED WITH A FENCE OR OTHERWISE DESIGNED WITH APPROPRIATE FEATURES TO DISCOURAGE THE ENTRY OF ANIMALS AND UNAUTHORIZED PERSONS; POSTING OF AN UNOBSTRUCTED SIGN MADE OF DURABLE WEATHER RESISTANT MATERIAL AT A LOCATION VISIBLE TO THE PUBLIC WITH A TELEPHONE NUMBER FOR A POINT OF CONTACT IN CASE OF EMERGENCY IS SPECIFIED. [62-604.400(2)(D), F.A.C.]
- IN SUBMERSIBLE PUMP STATIONS, THE DESIGN REQUIRES: 1) PUMP MOTOR POWER CORDS BE FLEXIBLE AND SERVICEABLE UNDER CONDITIONS OF EXTRA HARD USAGE AND TO MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE STANDARDS FOR FLEXIBLE CORDS IN WASTEWATER PUMP STATIONS; 2) GROUND FAULT INTERRUPTION PROTECTION BE USED TO DE ENERGIZE THE CIRCUIT IN THE EVENT OF ANY FAILURE IN THE ELECTRICAL INTEGRITY OF THE CABLE; AND 3) POWER CORD TERMINAL FITTINGS BE CORROSION-RESISTANT AND CONSTRUCTED IN A MANNER TO PREVENT THE ENTRY OF MOISTURE INTO THE CABLE, PROVIDED WITH STRAIN RELIEF APPURTENANCES, AND DESIGNED TO FACILITATE FIELD CONNECTING. [RSWF 44.33]
- THE DESIGN REQUIRES: 1) EMERGENCY STANDBY SYSTEMS TO HAVE SUFFICIENT CAPACITY TO START UP AND MAINTAIN THE TOTAL RATED RUNNING CAPACITY OF THE STATION, INCLUDING LIGHTING, VENTILATION, AND OTHER AUXILIARY EQUIPMENT NECESSARY FOR SAFETY AND PROPER OPERATION; 2) SPECIAL SEQUENCING CONTROLS BE PROVIDED TO START PUMP MOTORS UNLESS THE GENERATING EQUIPMENT HAS CAPACITY TO START ALL PUMPS SIMULTANEOUSLY WITH AUXILIARY EQUIPMENT OPERATING; 3) A RISER FROM THE FORCE MAIN WITH RAPID CONNECTION CAPABILITIES AND APPROPRIATE VALVING BE PROVIDED FOR ALL PUMP STATIONS TO HOOK UP PORTABLE PUMPS; AND 4) ALL PUMP STATION RELIABILITY DESIGN FEATURES BE COMPATIBLE WITH THE AVAILABLE TEMPORARY SERVICE POWER GENERATING AND PUMPING EQUIPMENT OF THE AUTHORITY RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE COLLECTION/TRANSMISSION SYSTEM. [62-604.400(2)(A)3, F.A.C., AND RSWF 46.431]
- THE DESIGN PROVIDES FOR EMERGENCY EQUIPMENT TO BE PROTECTED FROM OPERATION CONDITIONS THAT WOULD RESULT IN DAMAGE TO THE EQUIPMENT AND FROM DAMAGE AT THE RESTORATION OF REGULAR ELECTRICAL POWER. [RSWF 46.411, 46.417, AND 46.432]
- FOR PERMANENTLY-INSTALLED OR PORTABLE ENGINE-DRIVEN PUMPS ARE USED, THE DESIGN INCLUDES PROVISIONS FOR MANUAL START-UP. [RSWF 46.422]
- WHERE INDEPENDENT SUBSTATIONS ARE USED FOR EMERGENCY POWER, EACH SEPARATE SUBSTATION AND ITS ASSOCIATED TRANSMISSION LINES IS DESIGNED TO BE CAPABLE OF STARTING AND OPERATING THE PUMP STATION AT ITS RATED CAPACITY. [RSWF 46.44]

 CONSTRUCTION ENGINEERING GROUP <i>consulting engineers</i>	2651 west eou golfie suite a melbourne, fl 32935 tel. 321.253.1221 fax. 321.253.3123 www.ceengineering.com license #008097	ENGINEER OF RECORD PRELIMINARY NOT FOR CONSTRUCTION

REVISIONS AND UPDATES

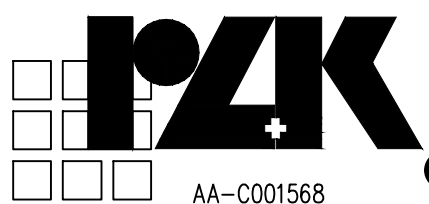
10/01/14	90% CONSTRUCTION DOCUMENTS
06/18/14	PROGRESS SET
03/21/14	DESIGN DEVELOPMENT SET
09/20/12	SCHEMATIC PLANS

CAPE CANAVERAL LIGHTHOUSE FOUNDATION
LIGHTHOUSE KEEPER'S COTTAGES

LIGHTHOUSE RD CAPE CANAVERAL AFS, FL

SPECIFICATIONS

drawn DHF checked JTW approved DMT

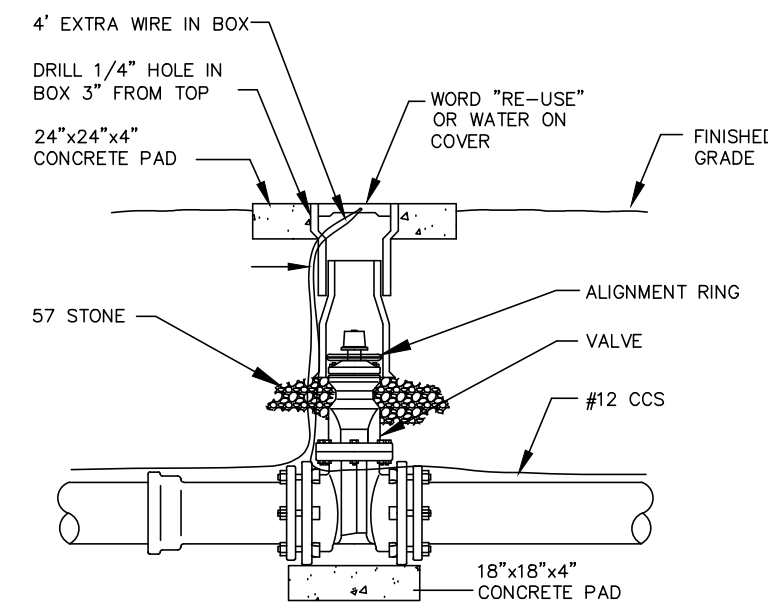


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NOT FOR
CONSTRUCTION

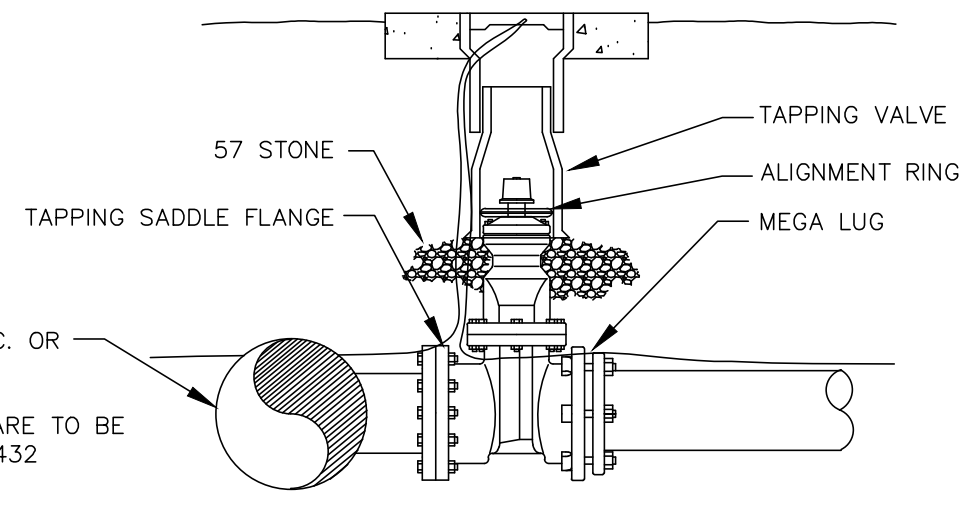
job no. 130232
C-6
SCALE: NTS

ARCHITECTS RZK, INC.
600 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039

GATE VALVE AND VALVE BOX DETAIL
NTS

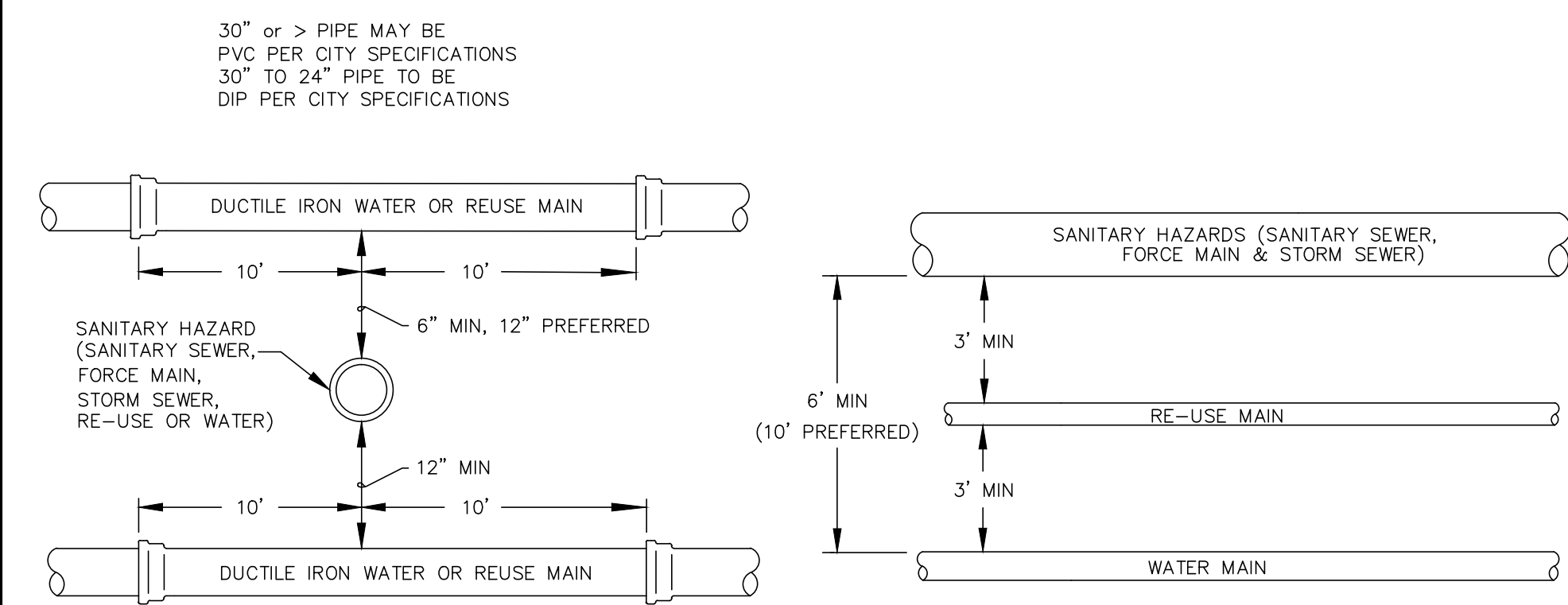


- NOTES:
1. PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
 2. IF THE DEPTH OF THE VALVE NUT IS GREATER THAN 48" BELOW GRADE, OR 30" BELOW GRADE AND UNDER THE WATER TABLE, A VALVE EXTENSION WILL BE REQUIRED. SEE VALVE EXTENSION STEM DETAIL.
 3. PROVIDE A PLASTIC DEBRIS SHIELD/ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INTRUSION.
 4. LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 24" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.
 5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIRROR TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
- THIS DETAIL APPLIES TO ALL BURIED VALVES.



12" AND SMALLER P.V.C. OR D.I.P. FULL BODY MJ
SADDLES ON AC PIPE ARE TO BE STAINLESS STEEL JCM 432 OR APPROVED EQUAL.

TAPPING SADDLE AND VALVE
NTS



TYPICAL REQUIRED SEPARATION
NTS

PER FDEP 62-555.314

CITY OF COCOA
Brevard County, Florida
UTILITIES DEPARTMENT
ENGINEERING DIVISION

GATE VALVE AND VALVE BOX DETAIL
DRAWN BY: J. WILLIAMS
CHECKED BY: T. TURNER
DESIGN BY:
ACAD NAME: GATE VALVE & VALVE BOX DETAIL

CITY OF COCOA
Brevard County, Florida
UTILITIES DEPARTMENT
ENGINEERING DIVISION

TAPPING SADDLE AND VALVE
DRAWN BY: J. WILLIAMS
CHECKED BY: T. TURNER
DESIGN BY:
ACAD NAME: TAPPING SADDLE AND VALVE

SCALE: NOT TO SCALE
DATE: SEPTEMBER, 2013
SHEET: 1 OF 1

CITY OF COCOA
Brevard County, Florida
UTILITIES DEPARTMENT
ENGINEERING DIVISION

TYPICAL REQUIRED SEPARATION
DRAWN BY: J. WILLIAMS
CHECKED BY: T. TURNER
DESIGN BY:
ACAD NAME: TYPICAL REQUIRED SEPARATION

SCALE: NOT TO SCALE
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SHEET: 1 OF 1

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REVISIONS AND UPDATES		
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CAPE CANAVERAL LIGHTHOUSE FOUNDATION
LIGHTHOUSE KEEPER'S COTTAGES
LIGHTHOUSE RD CAPE CANAVERAL AFS, FL
CITY OF COCOA DETAILS - WATER

drawn DHF checked JTW approved DMT

RZK FOR REVIEW NOT FOR CONSTRUCTION
AA-C001568

job no. 130232
C-7
SCALE: NTS

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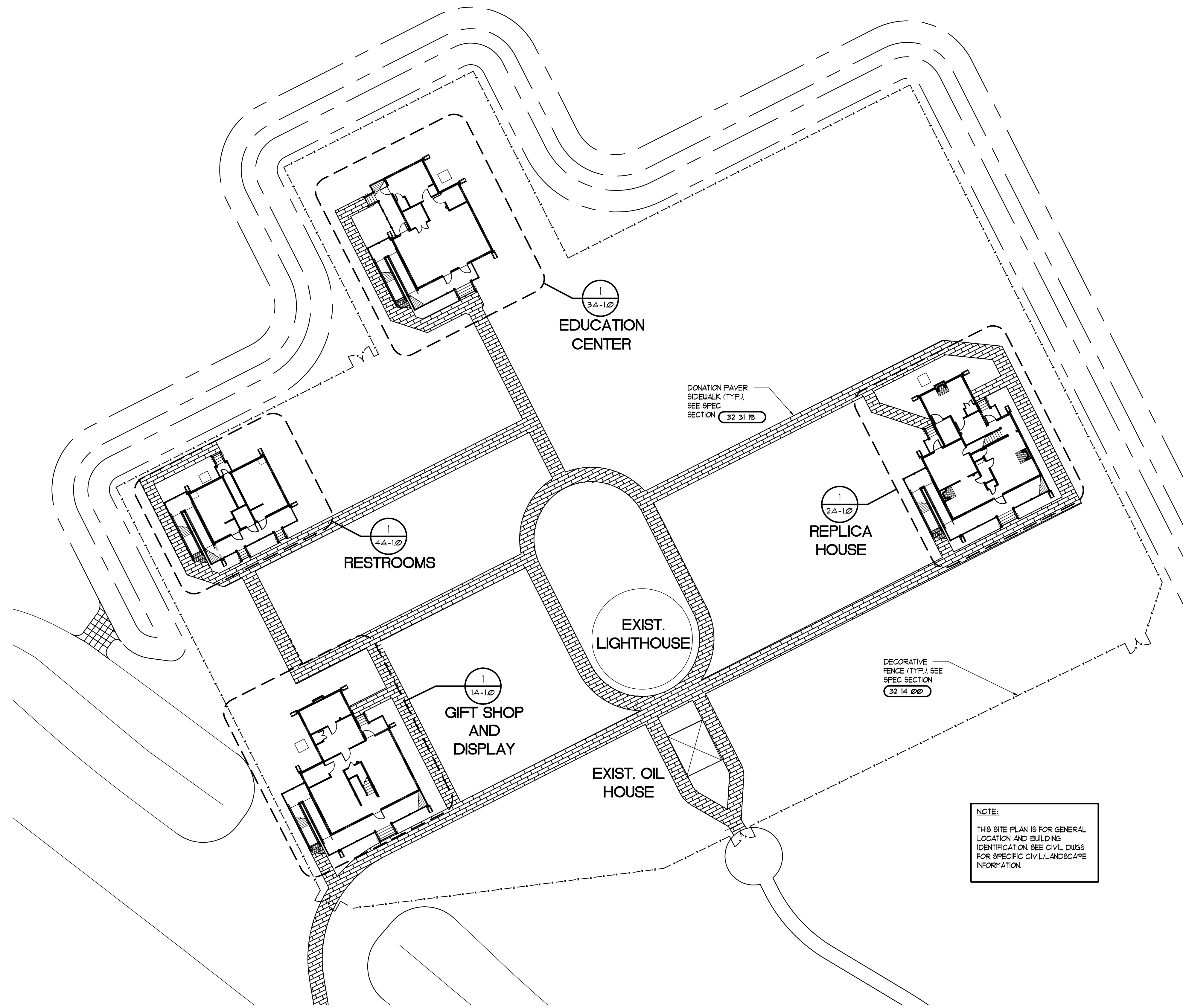
SHEET NUMBERING LEGEND

NUMBER DENOTES DIFFERENT BUILDINGS
 1 = GIFT STORE/MUSEUM
 2 = REPLICIA HOUSE
 3 = EDUCATION CENTER
 4 = RESTROOMS
 LETTER DENOTES DISCIPLINE

1A-1.0

BUILDING AND PORCH/RAMP/STAIR AREAS

GIFT SHOP AND DISPLAY	
1ST FLOOR AREA:	1,988 SF
2ND FLOOR AREA:	1,029 SF
TOTAL:	2,267 SF
PORCH / EXT. STAIRS / RAMP AREA:	494 SF
OVERALL TOTAL:	2,761 SF
REPLICIA HOUSE	
1ST FLOOR AREA:	1,988 SF
2ND FLOOR AREA:	1,029 SF
TOTAL:	2,267 SF
PORCH / EXT. STAIRS / RAMP AREA:	494 SF
OVERALL TOTAL:	2,761 SF
EDUCATION CENTER	
FLOOR AREA:	959 SF
PORCH / EXT. STAIRS / RAMP AREA:	462 SF
OVERALL TOTAL:	1,421 SF
RESTROOMS	
FLOOR AREA:	600 SF
PORCH / EXT. STAIRS / RAMP AREA:	481 SF
OVERALL TOTAL:	1,081 SF



REVISIONS AND UPDATES

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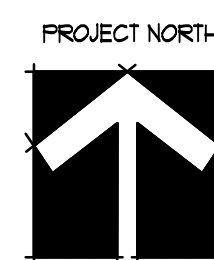
**CAPE CANAVERAL LIGHTHOUSE FOUNDATION
 LIGHTHOUSE KEEPER'S COTTAGES**

LIGHTHOUSE RD CAPE CANAVERAL AFS, FL
ARCHITECTURAL SITE PLAN

drawn 09/30/14 CNK checked 07/03/14 JJR approved JJR

RZK FOR REVIEW NOT FOR CONSTRUCTION
 Job no. 20140
AS-1.0

ARCHITECTS RZK, INC.
 800 FLORIDA AVENUE SUITE 202 COCOA, FLORIDA 32922 TELEPHONE (321) 631-8039



1 ARCHITECTURAL SITE PLAN
 SCALE: 1"=20'

MATERIALS LIST

03 STR	SEE STRUCTURAL SPECIFICATIONS
03 48 16	PRE-CAST CONCRETE SPLASH BLOCKS
04 STR	SEE STRUCTURAL SPECIFICATIONS
04 02 23	MASONRY ACCESSORIES
04 19 00	MASONRY SEALANT
05 STR	SEE STRUCTURAL SPECIFICATIONS
05 50 00	METAL FABRICATIONS
05 52 00	GUARDRAILS AND HANDRAILS
06 STR	SEE STRUCTURAL SPECIFICATIONS
06 10 13	BLOCKING, STUDS, FURRING, ETC.
06 10 53	ROUGH CARPENTRY
06 11 00	ROUGH HARDWARE
06 16 43	GYPSUM SHEATHING
06 16 63	CEMENTITIOUS SIDING
06 20 00	FINISH CARPENTRY
06 40 23	ARCHITECTURAL LAMINATE CASEWORK
06 65 00	RECYCLED PLASTIC LUMBER
07 12 00	WATERSHIELD UNDERLAYMENT (PEEL-N-STICK)
07 21 19	FOAM-IN-PLACE INSULATION
07 25 00	AIR / LEATHER BARRIER
07 27 00	FIRE STOPPING
07 31 13	ROOF SHINGLES
07 60 00	METAL FLASHING AND TRIM
07 11 23	MANUFACTURED GUTTERS & DOWNSPOUTS
07 84 00	SPRAY-ON FIREPROOFING
07 90 00	JOINT SEALERS
08 20 00	WOOD DOORS/FRAMES
08 16 00	FIBERGLASS DOORS/FRAMES
08 31 00	ACCESS DOORS
08 40 30	ALUM. ENT. AND STOREFRONT SYSTEM FOR COASTAL COUNTIES
08 52 10	ALUMINUM WINDOWS WITH TINTED GLASS
08 71 00	FINISH HARDWARE
08 91 19	FIXED DECORATIVE ALUMINUM LOUVERS
09 24 00	STUCCO ON LATH
09 29 00	GYPSUM DRYWALL
09 29 10	INTERIOR TILE BACKERBOARD
09 30 00	CERAMIC TILE
09 31 00	CULTURED MARBLE
09 54 10	ACOUSTICAL INSULATION
09 65 00	RESILIENT FLOORING
09 68 20	CARPETING
09 91 00	PAINTING
10 11 00	CHALKBOARDS, TACKBOARDS AND MARKERBOARDS
10 11 13	TACKABLE WALL PANELS
10 14 00	IDENTIFYING DEVICES
10 21 13	SOLID PLASTIC COMPARTMENTS/PARTITIONS
10 24 30	PATIO SCREEN
10 28 00	TOILET AND BATH ACCESSORIES
10 44 00	FIRE EXTINGUISHERS AND CABINETS
10 67 00	SHELVING
10 75 00	FLAGPOLES
11 45 70	TELEVISION SUPPORT BRACKETS
12 48 00	RUGS AND MATS
22 PLUMB	SEE PLUMBING SPECIFICATIONS
23 MECH	SEE MECHANICAL SPECIFICATIONS
26 ELECT	SEE ELECTRICAL SPECIFICATIONS
31 31 16	TERMITE CONTROL
32 14 00	BRICK PAVERS
32 31 19	DECORATIVE FENCING SYSTEM AND GATES

NOTE:
RAMP AND STAIR DETAILS APPLY TO ALL FOUR (4) STRUCTURES SHOWN ON SHEET AS-10. INDIVIDUAL BUILDING PLAN SHOW THE LOCATIONS OF STAIR AND RAMP STRUCTURES.

REVISIONS AND UPDATES

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03/21/14	DESIGN DEVELOPMENT SET
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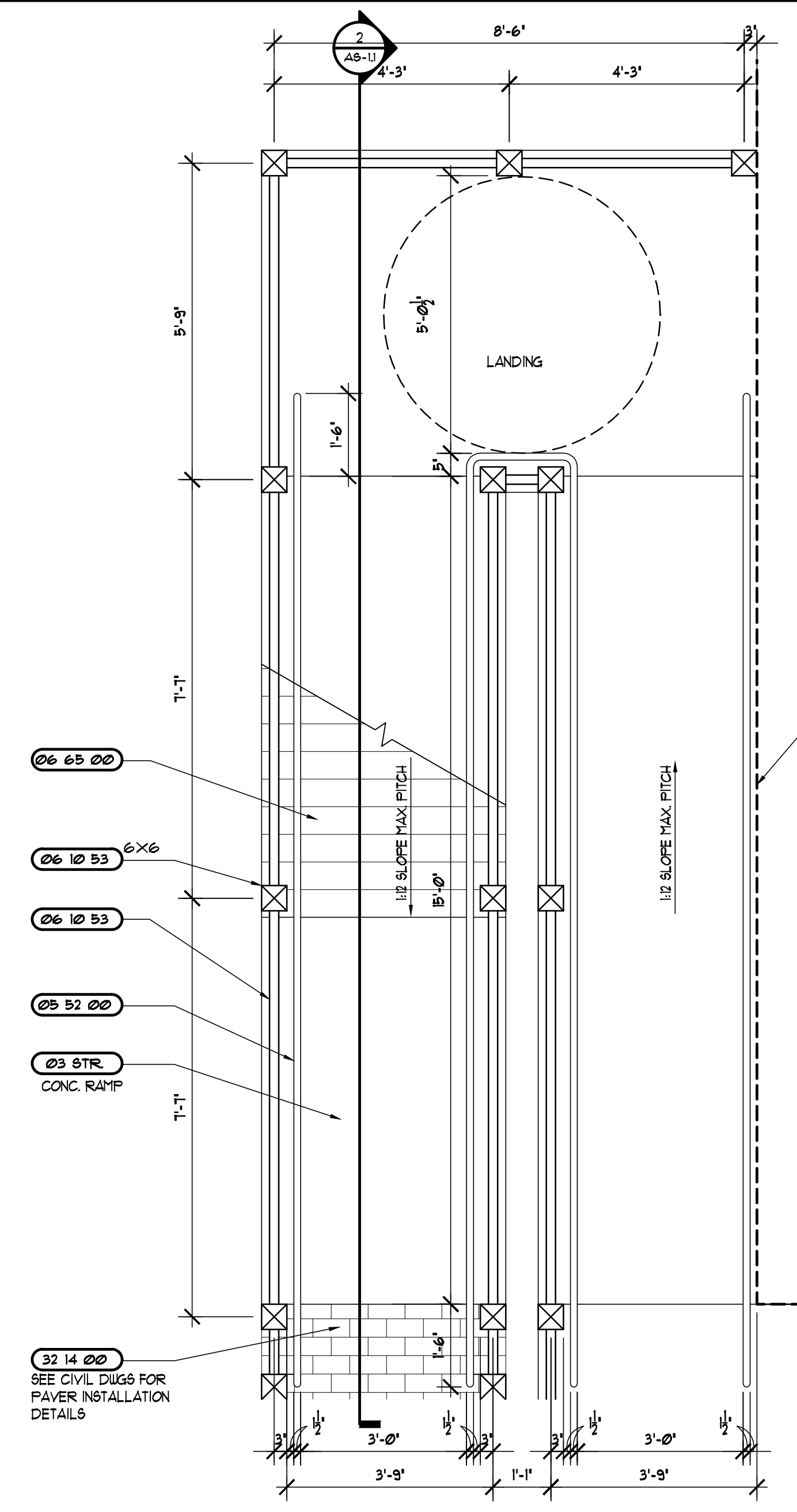
**CAPE CANAVERAL LIGHTHOUSE FOUNDATION
LIGHTHOUSE KEEPER'S COTTAGES**
LIGHTHOUSE RD CAPE CANAVERAL AFS, FL
ENLARGED SITE PLANS AND DETAILS

drawn 09/30/14 CNK checked 07/03/14 JJR approved JJR

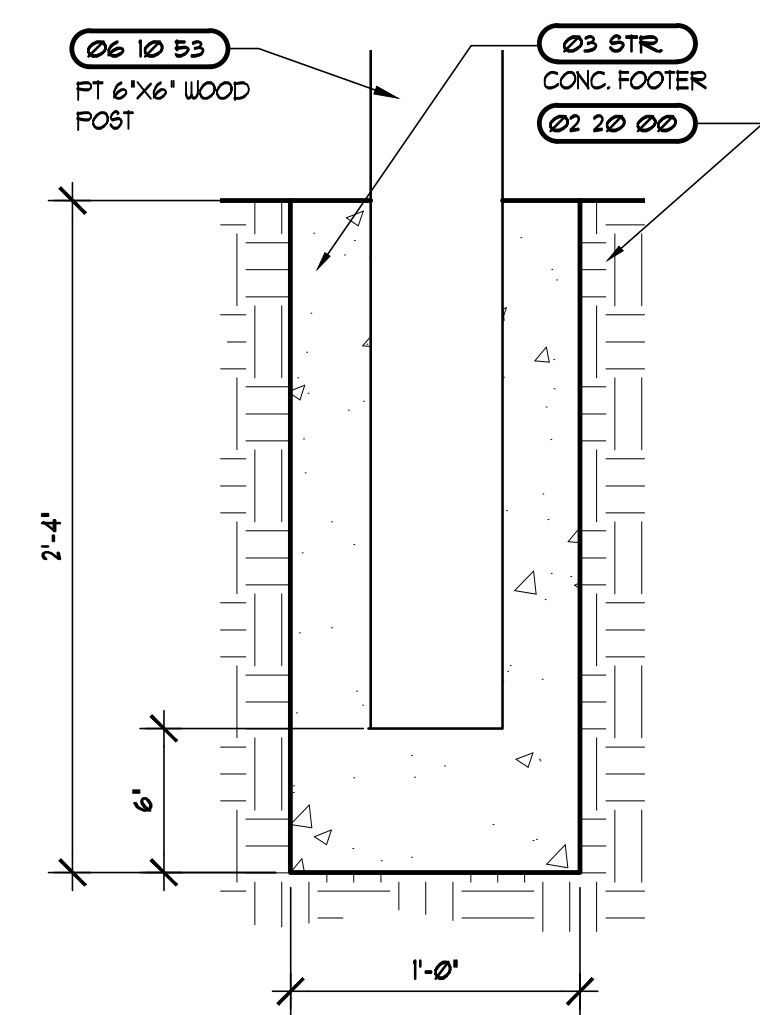
RZK FOR REVIEW NOT FOR CONSTRUCTION
AA-C200568

Job no. 200.40
AS-1.1

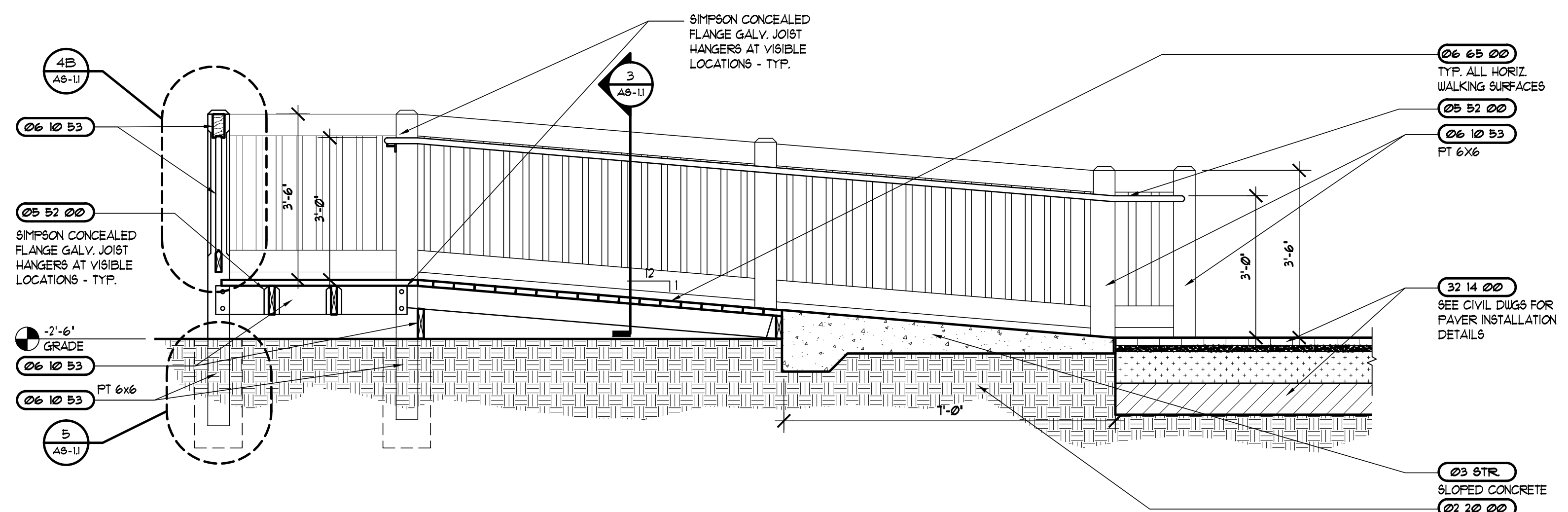
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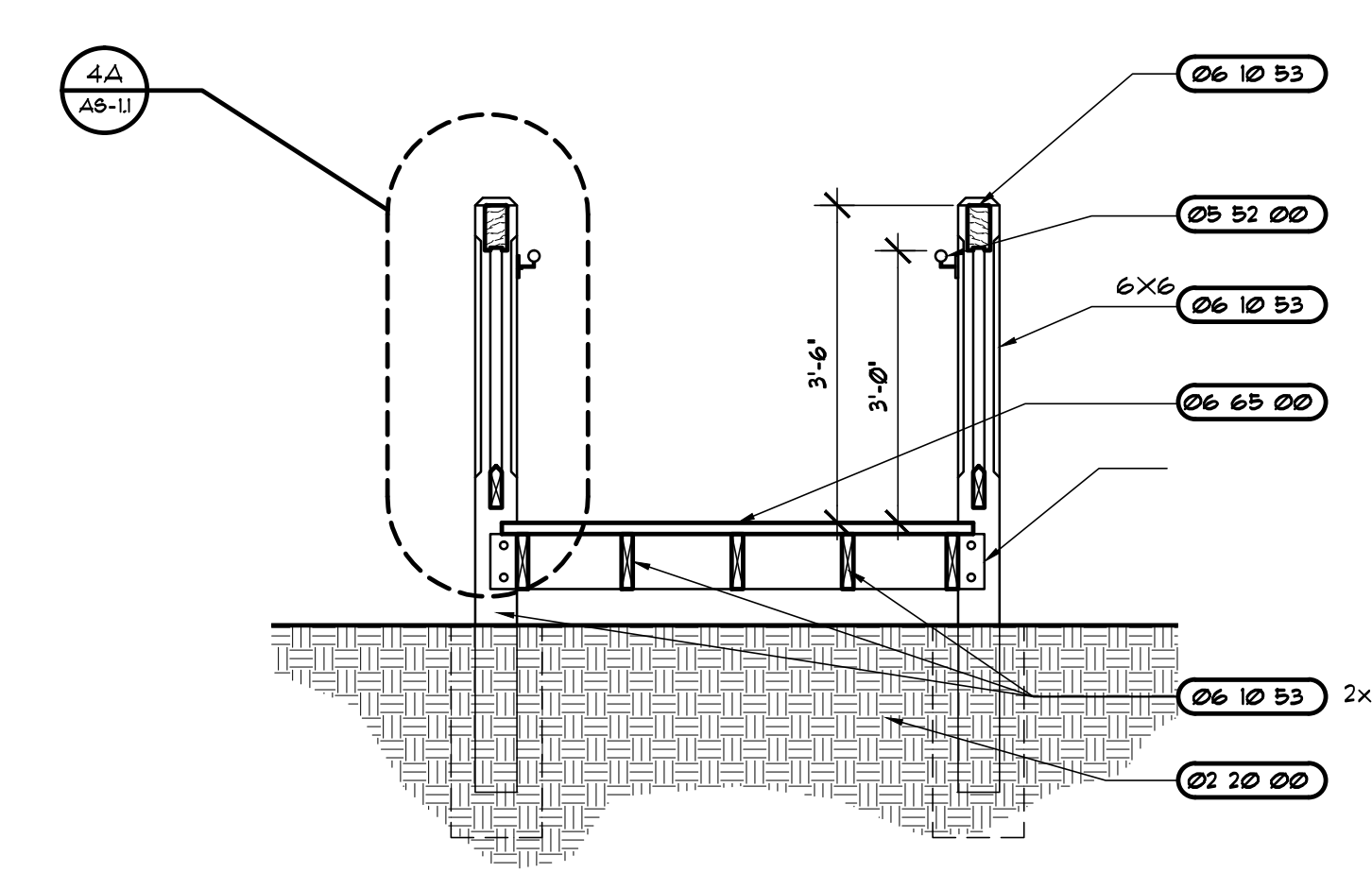
1 ENLARGED TYP. RAMP PLAN
SCALE: 1/2" = 1'-0"



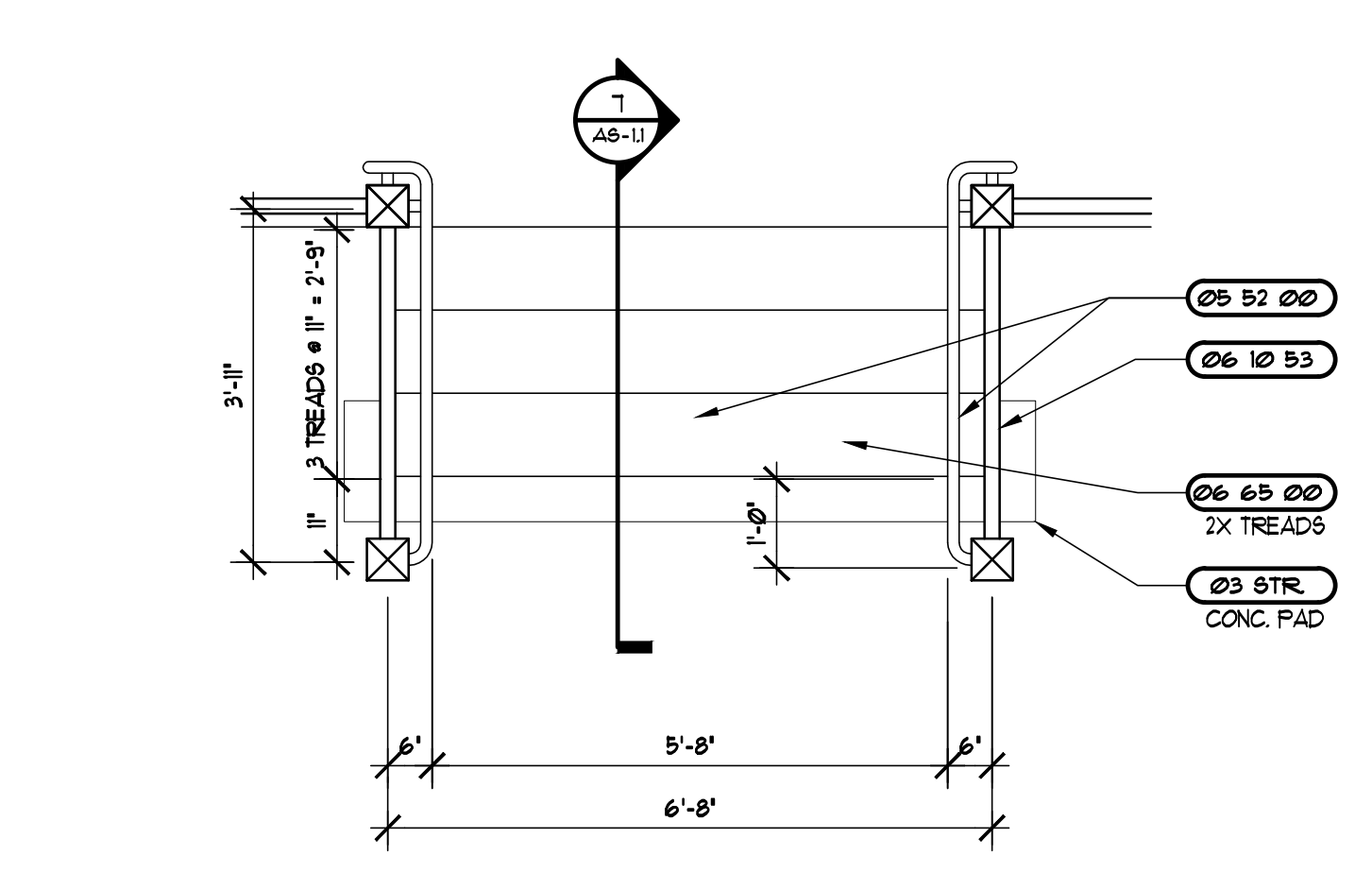
5 FOOTING DETAIL
SCALE: 1/2" = 1'-0"



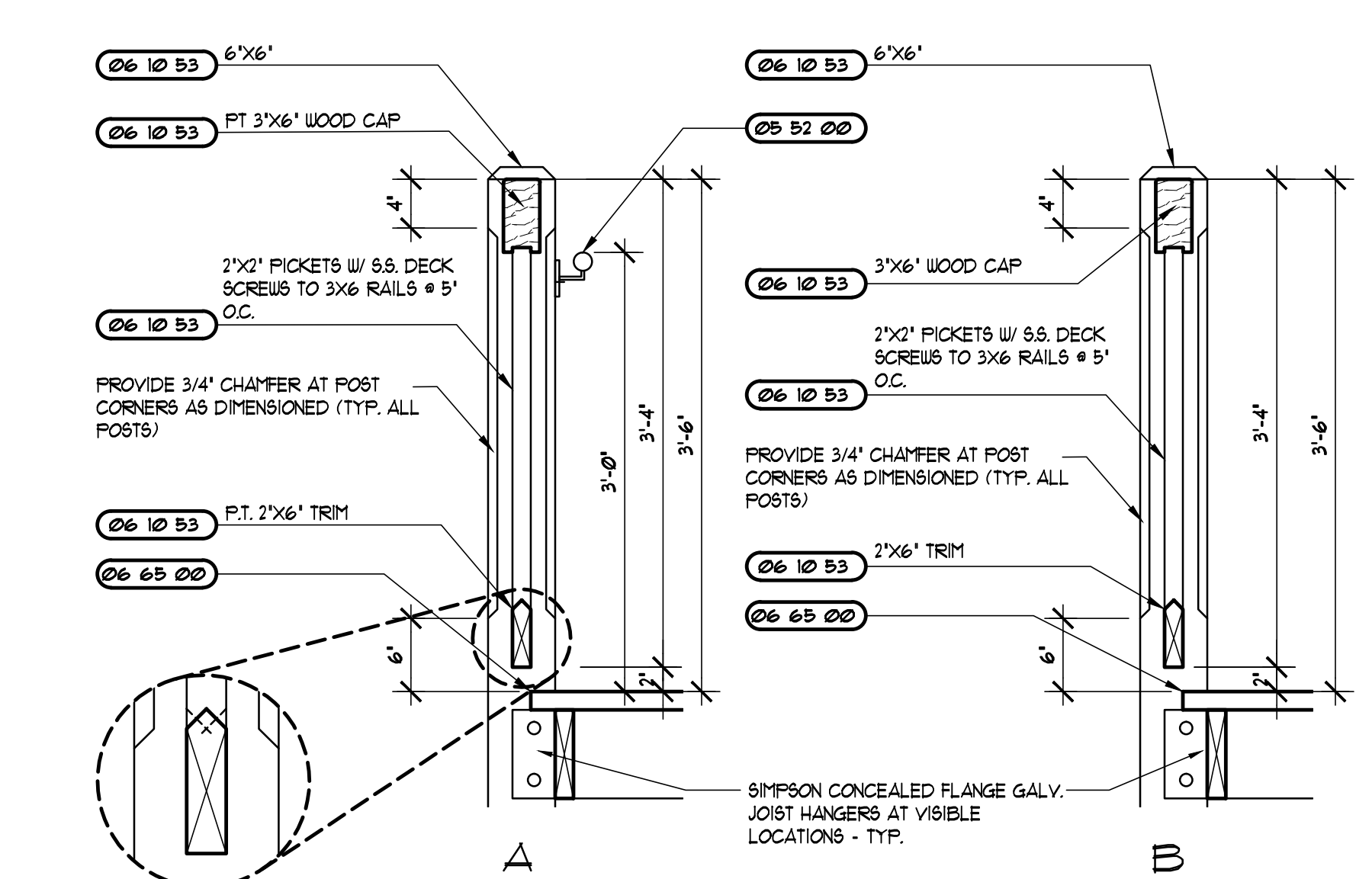
2 RAMP SECTION
SCALE: 1/2" = 1'-0"



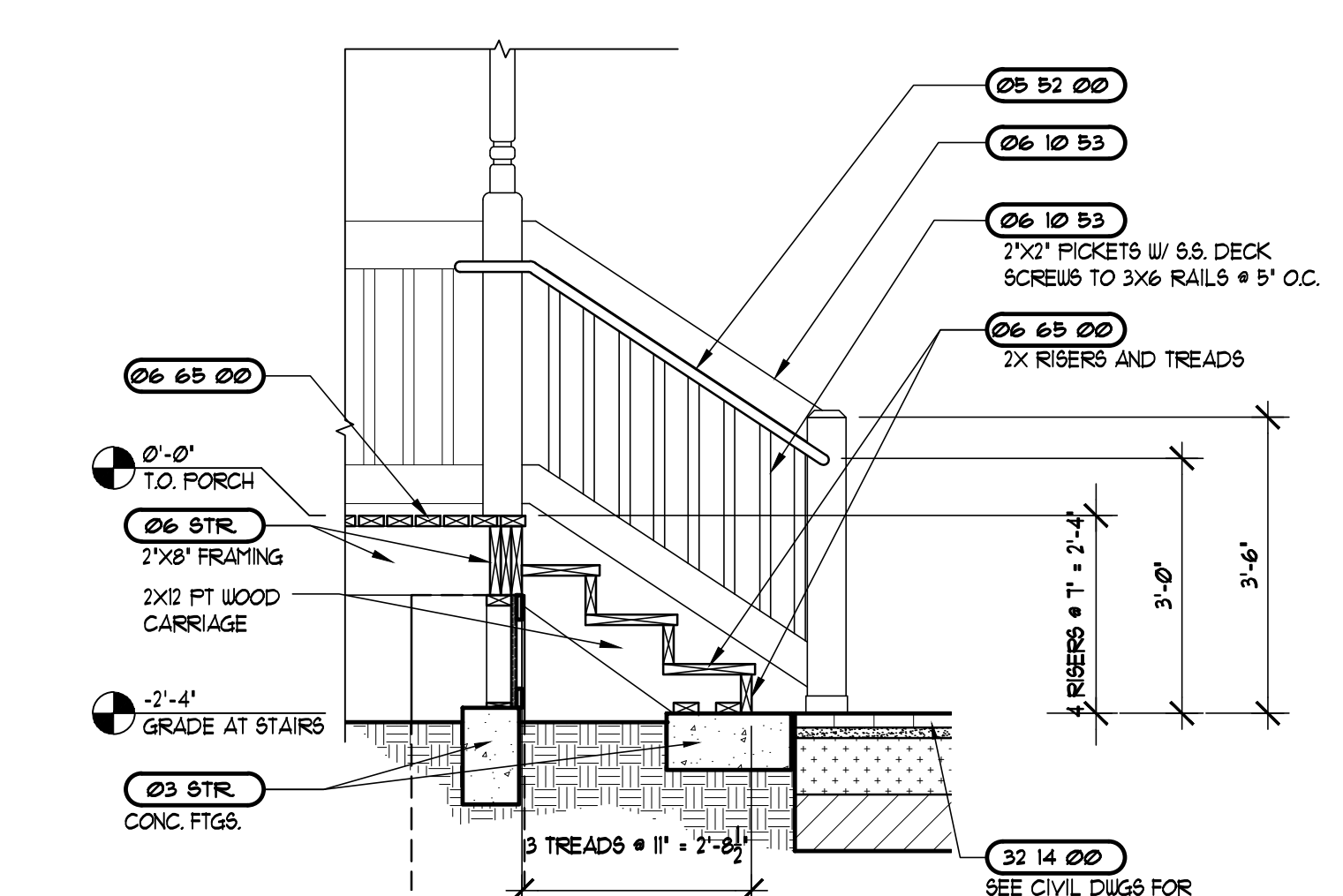
3 RAMP SECTION
SCALE: 1/2" = 1'-0"



6 ENLARGED TYP. STAIR PLAN
SCALE: 1/2" = 1'-0"



4 HANDRAIL/GUARDRAIL DETAILS
SCALE: 1" = 1'-0"



7 TYP. STAIR SECTION
SCALE: 1/2" = 1'-0"

