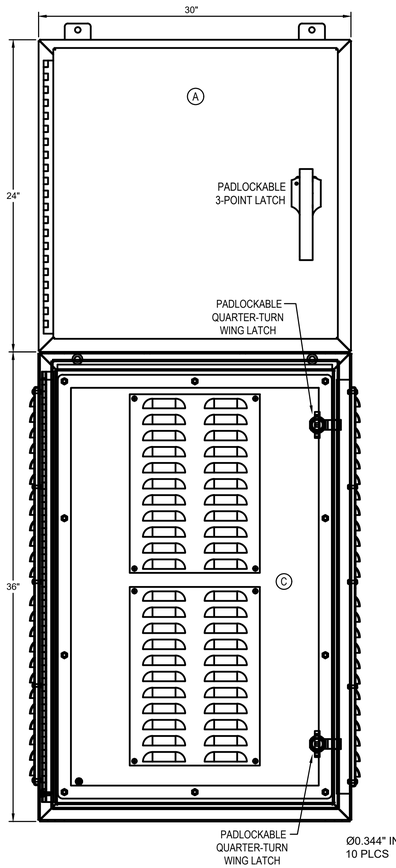
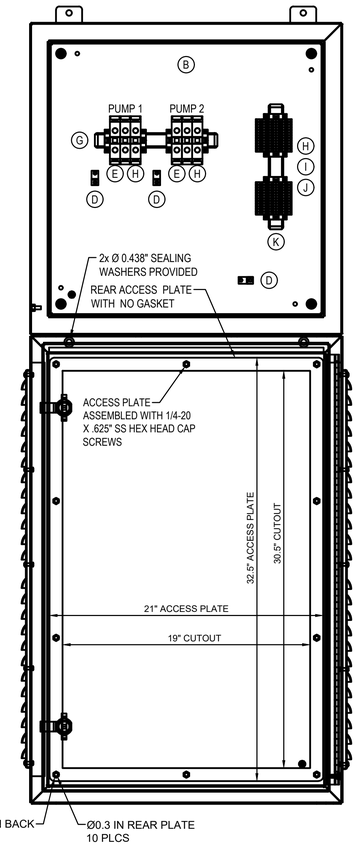
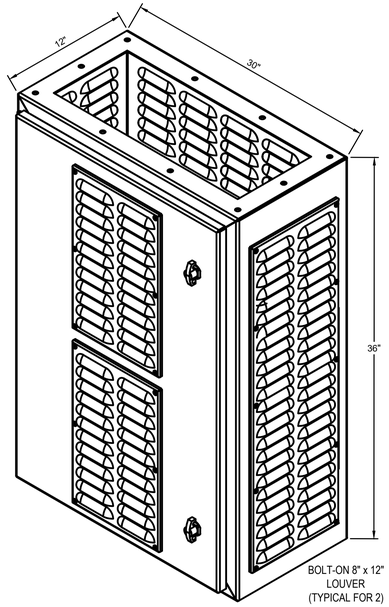
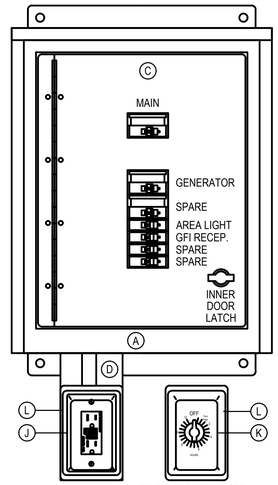
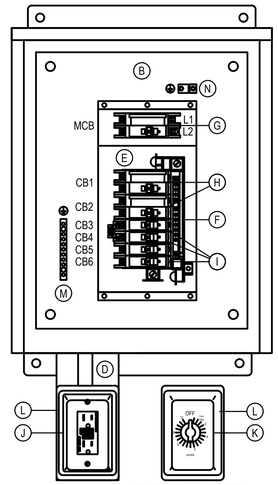










POWER DISTRIBUTION PANEL (TYPICAL 240VAC - 1 PHASE SHOWN)

ENCLOSURE:
SPLRHCSS6-20168 (20"H x 16"W x 8"D) NEMA 12/3R RATED, FABRICATED FROM TYPE 316 STAINLESS STEEL. OUTER DOOR IS FITTED WITH A PADLOCKABLE 3-POINT LATCH.

BACK PANEL:
SPP-2016 (17"H x 13"W) FABRICATED FROM 14ga. CARBON STEEL WITH WHITE POLYESTER POWDER COAT FINISH.

HINGED INNER DOOR:
FABRICATED FROM .125 ALUMINUM WITH CONTINUOUS HINGE AND TWIST LATCH.

240 VAC DISTRIBUTION PANEL NOTES:

1. POWER DISTRIBUTION PANEL 120/240V 1 PHASE WITH 60A 2-POLE MAIN BREAKER.
2. PANEL OUTER DOOR SHALL BE HINGED AND PADLOCKABLE.
3. ALL LIVE PARTS SHALL BE ENCLOSED FOR PERSONNEL SAFETY AND EQUIPMENT PROTECTION.
4. GROUNDING TERMINAL SHALL BE PROVIDED IN THE ENCLOSURE
5. THE ENCLOSURE SHALL BE NEMA 3R RATED.
6. IF ENCLOSURE IS FABRICATED WITHIN AN AUTHORIZED PANEL SHOP, .125 MARINE GRADE ALUMINUM SHALL BE USED.
7. IF ENCLOSURE IS PURCHASED FROM AN AUTHORIZED DISTRIBUTOR, TYPE 316 STAINLESS STEEL MAY ALSO BE USED.
8. THE LOAD CENTER MOUNTING BASE PLATE SHALL BE UL LISTED, RATED AT 240 VOLTS / 200 AMPS MINIMUM.
9. THE LOAD CENTER BUS MATERIAL SHALL BE ALUMINUM OR TIN-PLATED ALUMINUM.
10. THE LOAD CENTER SHALL HAVE EIGHT SPACES.
11. BREAKERS MAY BE SNAP-IN; JEA DETERMINED LOCATIONS WITH HIGH-VIBRATION REQUIRE BOLT-IN TYPE BREAKERS.
12. PANEL SHALL CONTAIN TWO 2-POLE 30-AMP BREAKERS: (1) GENERATOR USE, (1) SPARE.
13. PANEL SHALL CONTAIN FOUR 1-POLE 15-AMP BREAKERS: (1) LIGHT, (1) GFI, (2) SPARES.
14. PANEL SHALL HAVE A 20-AMP OUTDOOR RATED GFCI RECEPTACLE AND SPRING-WOUND COMMERCIAL RATED LIGHT TIMER.
15. GFCI AND TIMER SHALL BE MOUNTED ACCORDING TO N.E.C. STANDARDS.
16. GFCI AND TIMER SHALL BE RIGIDLY MOUNTED ON THE EXTERIOR OF THE PANEL USING TYPE 316 SS OR ALUMINUM BRACKETS.

480 VAC DISTRIBUTION PANEL NOTES:

1. STANDARD PANEL: 3 KVA TRANSFORMER 480V-120/480V WITH 2-POLE 20-AMP MAIN BREAKER.
2. PANEL WITH ODOR CONTROL: 5 KVA TRANSFORMER 480V-120/480V WITH 2-POLE 30-AMP MAIN BREAKER.
3. PANEL WITH GENERATOR: 10 KVA TRANSFORMER 480V-120/480V WITH 2-POLE 60-AMP MAIN BREAKER.
4. PANEL OUTER DOOR SHALL BE HINGED AND PADLOCKABLE.
5. ALL LIVE PARTS SHALL BE ENCLOSED FOR PERSONNEL SAFETY AND EQUIPMENT PROTECTION.
6. GROUNDING TERMINAL SHALL BE PROVIDED IN THE ENCLOSURE
7. THE ENCLOSURE SHALL BE NEMA 3R RATED.
8. IF ENCLOSURE IS FABRICATED WITHIN AN AUTHORIZED PANEL SHOP, .125 MARINE GRADE ALUMINUM SHALL BE USED.
9. IF ENCLOSURE IS PURCHASED FROM AN AUTHORIZED DISTRIBUTOR, TYPE 316 STAINLESS STEEL MAY ALSO BE USED.
10. THE LOAD CENTER MOUNTING BASE PLATE SHALL BE UL LISTED, RATED AT 240 VOLTS / 200 AMPS MINIMUM.
11. THE LOAD CENTER BUS MATERIAL SHALL BE ALUMINUM OR TIN-PLATED ALUMINUM.
12. THE LOAD CENTER SHALL HAVE EIGHT SPACES.
13. BREAKERS MAY BE SNAP-IN; JEA DETERMINED LOCATIONS WITH HIGH-VIBRATION REQUIRE BOLT-IN TYPE BREAKERS.
14. PANEL SHALL CONTAIN TWO 2-POLE 30-AMP BREAKERS: (1) GENERATOR USE, (1) SPARE.
15. PANEL SHALL CONTAIN FOUR 1-POLE 15-AMP BREAKERS: (1) LIGHT, (1) GFI, (2) SPARES.
16. PANEL SHALL HAVE A 20-AMP OUTDOOR RATED GFCI RECEPTACLE AND SPRING-WOUND COMMERCIAL RATED LIGHT TIMER.
17. GFCI AND TIMER SHALL BE MOUNTED ACCORDING TO N.E.C. STANDARDS.
18. GFCI AND TIMER SHALL BE RIGIDLY MOUNTED ON THE EXTERIOR OF THE PANEL USING TYPE 316 SS OR ALUMINUM BRACKETS.

DEMARCATION BOX and PEDESTAL

ENCLOSURE:
SPN4AL-243012 (24"H x 30"W x 12"D) NEMA 4X RATED, FABRICATED FROM .125 MARINE GRADE ALUMINUM. OUTER DOOR IS FITTED WITH A PADLOCKABLE 3-POINT LATCH.

BACK PANEL:
SPP-3030 (27"H x 27"W) FABRICATED FROM 12ga. CARBON STEEL WITH WHITE POLYESTER POWDER COAT FINISH.

PEDESTAL:
SPN12AL-363012-215 (36"H x 30"W x 12"D) NEMA 12 RATED, FABRICATED FROM .125 MARINE GRADE ALUMINUM. OUTER DOOR IS FITTED WITH TWO PADLOCKABLE QUARTER-TURN LATCHES.

BILLS of MATERIAL

DEMARCATION BOX and PEDESTAL

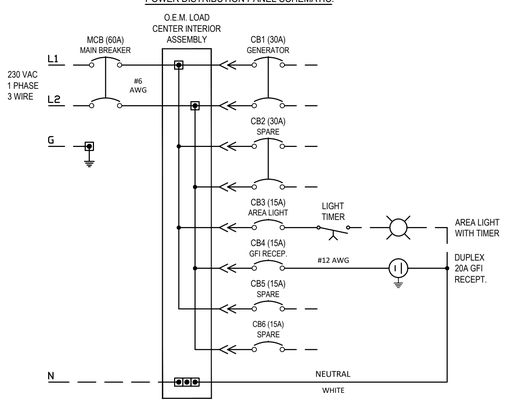
	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
A	1	SCHAEFER	SPN4AL-243012	ENCLOSURE, NEMA 4X ALUMINUM, 3-PT.
B	1	SCHAEFER	SPP-2430	MOUNTING PANEL, 12ga. PAINTED STEEL
C	1	SCHAEFER	SPN12AL-363012-215	PEDESTAL, NEMA 12 ALUMINUM, LOUVERS
D	3	PANDUIT	LAMA2-14-QY	GROUND LUG, DUAL-RATED, #2-14 AWG
⚠⚠⚠ E	6	WAGO	285-135	TERMINAL BLOCK, 1 POLE, 115A
		WAGO	285-150	TERMINAL BLOCK, 1 POLE, 150A
		WAGO	285-195	TERMINAL BLOCK, 1 POLE, 200A
		WAGO	285-1185	TERMINAL BLOCK, 1 POLE, 310A
⚠ F	-	WAGO	285-435	ADJACENT JUMPER, 115A
		WAGO	285-450	ADJACENT JUMPER, 150A
		WAGO	285-495	ADJACENT JUMPER, 200A
		WAGO	285-1171	ADJACENT JUMPER, 310A
G	1	WAGO	210-118	2M CARRIER RAIL, STEEL, UNSLOTTED
H	8	WAGO	249-197	TERMINAL END STOP, GRAY
I	24	WAGO	2002-1401	CONTROL TERMINALS, 24A, 600V, SPRING
J	2	WAGO	2002-1492	TERMINAL END / PARTITION PLATE, ORANGE
K	1	WAGO	210-112	2M DIN RAIL, GALVANIZED, SLOTTED

POWER DISTRIBUTION PANEL (AS SHOWN)

	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
A	1	SCHAEFER	SPLRHCSS6-20168	ENCLOSURE, NEMA 12/3R, 316 SS, 3-PT.
B	1	SCHAEFER	SPP-2016	MOUNTING PANEL, 14ga. PAINTED STEEL
C	1	OEM	-	HINGED INNER DOOR, .125 ALUMINUM
D	1	OEM	GFI MOUNT	TO RIGIDLY MOUNT EXTERNAL DEVICES
E	1	OEM	BREAKER MOUNT	TO RAISE CBs FLUSH WITH INNER DOOR
F	1	SQUARE D	QON816L100	100 AMP LOAD CENTER INTERIOR ASSY.
G	1	SQUARE D	QOU260	MCB MAIN CIRCUIT BREAKER, 2 POLE, 60A
H	2	SQUARE D	QO230	CB1-CB2 GEN. BREAKER, 2 POLE, 30A
I	4	SQUARE D	QO115	CB3-CB6 CONTROL BREAKER, 1 POLE, 15A
J	1	HUBBELL	GF20WLA	DUPLEX GFCI RECEPTACLE, 20A
⚠ K	1	INTERMATIC	FF30MC	SPRING-WOUND TIMER, 30 min. NO HOLD
L	1	INTERMATIC	WP1030C	SINGLE GANG WEATHER-PROOF COVER, CLEAR
M	1	SQUARE D	PK9GTA	EQUIPMENT GROUND BAR, 9-POINT
N	1	PANDUIT	LAMA2-14-QY	GROUND LUG, DUAL-RATED, #2-14 AWG

NOTE 1: SELECT APPROPRIATELY SIZED TERMINAL BLOCK BASED ON MOTOR LOAD
NOTE 2: INSERTING MULTIPLE CABLES INTO A SINGLE TERMINAL IS PROHIBITED. USE A SECOND BLOCK AND THE ASSOCIATED ADJACENT JUMPER
NOTE 3: USE PRINTED GUIDE ON TERMINAL BLOCKS TO MEASURE CORRECT CABLE STRIP LENGTH
NOTE 4: ENGINEER APPROVED EQUAL COMPONENT MAY BE SUBSTITUTED

POWER DISTRIBUTION PANEL SCHEMATIC:



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DRAWN BY: ANB
DATE:
CHECKED BY: MEL
DATE:

DESIGN ENGINEER
MARY E. LEAPTROTT, PE
FLORIDA REGISTRATION NO.
PE NO. 61449

JEA Building Community sm

JEA STANDARD PUMP STATION DETAILS

PROJ. NO. 21-01-0057
DATE: 10/25/23
SCALE:

NO. SHEETS
SHEET NO.
DRAWING NO.

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Xrefs Attached=

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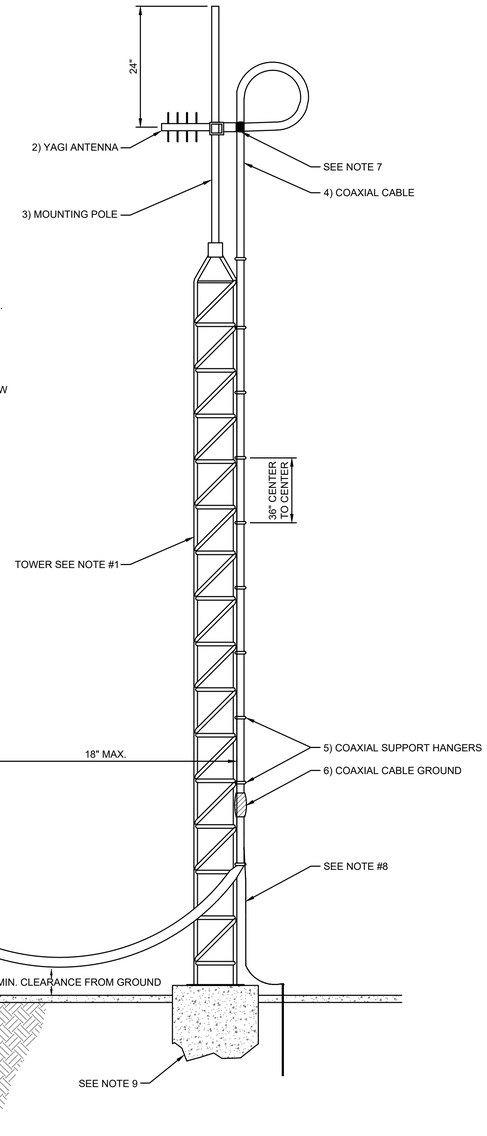
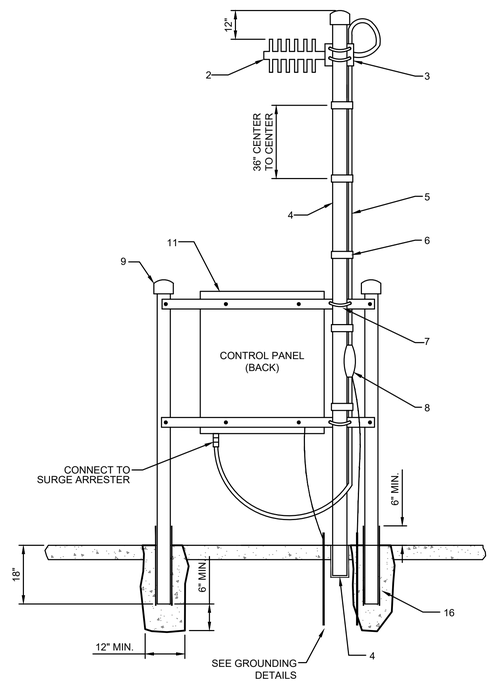


ALTERNATE POLE SCADA INSTALLATION DETAIL

FOR POLE HEIGHTS 20 FEET AND ABOVE
NOT TO SCALE

NOTES:

1. ACCEPTABLE MANUFACTURERS OF TOWERS ARE ROHN OR UNIVERSAL TOWERS. SEE PUMP STATION SITE DRAWINGS FOR POLE OR TOWER SPECIFICATIONS.
2. YAGI ANTENNA: MANUFACTURER: SCALA MODEL #: TY-900
3. MOUNTING POLE: MANUFACTURER: SCALA MODEL #: WPM-2
4. COAXIAL CABLE SHALL BE ONE CONTINUOUS CABLE: MANUFACTURER: ANDREW MODEL #: LDF4-50A
   COAXIAL CABLE CONNECTORS: MANUFACTURER: ANDREW MODEL #: L4TNM-PSA
5. COAXIAL SUPPORT HANGERS: MANUFACTURER: ANDREW MODEL #: 43211
6. COAXIAL CABLE GROUND: MANUFACTURER: TESSCO MODEL #: 41669
7. WEATHER PROOFING KIT: MANUFACTURER: TESSCO MODEL #: 18264
8. REFERENCE GROUNDING DETAILS SHEET.
9. TOWER BASE IS TO BE DESIGNED PER MANUFACTURERS RECOMMENDATIONS.



SCADA INSTALLATION DETAIL

FOR POLE HEIGHTS LESS THAN 20 FEET
NOT TO SCALE

NOTES:

1. SEE PUMP STATION SITE DRAWINGS FOR POLE OR TOWER SPECIFICATIONS.
2. YAGI ANTENNA, COMES W/ MOUNTING HARDWARE(MAST SHALL BE SLEEVED THRU CONCRETE TO ALLOW ROTATION (DO NOT USE WOOD POLE MOUNT)
   MANUFACTURE: SCALA
   MODEL NUMBER: TY-900
3. COAX CONNECTOR
   MANUFACTURE: WIRELESS SOLUTIONS
   MODEL NUMBER: NM50V-1/2
4. 2 3/8" O.D. SCD. 40 ALUMINUM 20' POLE.
   POLE SHALL BE SLEEVED THROUGH CONCRETE TO ALLOW FOR ROTATION
5. COAXIAL CABLE SHALL BE ONE CONTINUOUS CABLE
   MANUFACTURER: ANDREW
   MODEL #: LDF4-50A
6. STAINLESS STEEL STRAPS 3' O/C
   MANUFACTURE: WIRELESS SOLUTIONS
   MODEL NUMBER: RM-A300
7. 316 STAINLESS STEEL U-BOLTS
   MANUFACTURE: ANY DOMESTIC BRAND
   MODEL NUMBER: N/A
8. COAXIAL CABLE GROUND
   MANUFACTURER: TESSCO
   MODEL #: 41669
9. 4" PVC CAPS
10. 4" DIA. ALUMINUM POST
11. 1/2"X3" SOLID ALUMINUM SUPPORT BARS (2 TOTAL) BOLTED TO POST W/ 5/8" S.S. ANCHOR BOLTS. DRILL 2 HOLES (AS DIMENSIONED ON DETAIL) IN TOP & BOTTOM SUPPORTS ONLY
12. BURY ALUMINUM POST IN CONCRETE AS SHOWN ON DRAWING.
13. INSTALL RTU MOUNT SO THAT WHEN CABINET IS ATTACHED DOOR IS FACING NORTH UNLESS DOOR HAS SUN SHIELD. IN ALL INSTANCES JEA PREFERS THE DOOR TO FACE NORTH IF POSSIBLE.
14. CABINET SHALL HAVE CLEARANCE TO OPEN DOOR COMPLETELY.
15. SCADA SYSTEM WOOD POLE ALTERNATE DETAIL TO BE USED ONLY WHEN ADDITIONAL ANTENNA HEIGHT IS REQUIRED, AND APPROVED.
16. MASTIC SEAL ALL POSTS WHICH ARE EMBEDDED IN CONCRETE.
17. ALL MATERIALS MUST MEET OR EXCEED JEA SPECIFICATIONS

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DESIGN ENGINEER
MARY E. LEAPTROTT, PE
FLORIDA REGISTRATION NO.
PE NO. 61449

JEA
Building Community

JEA STANDARD PUMP STATION DETAILS

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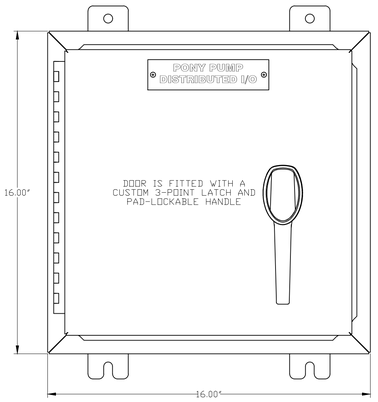
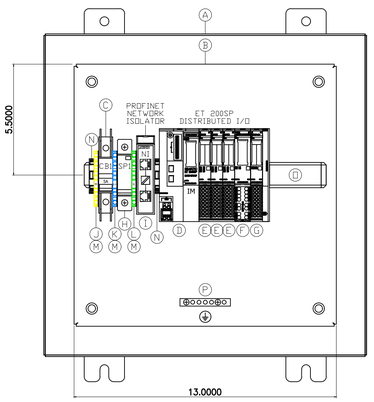
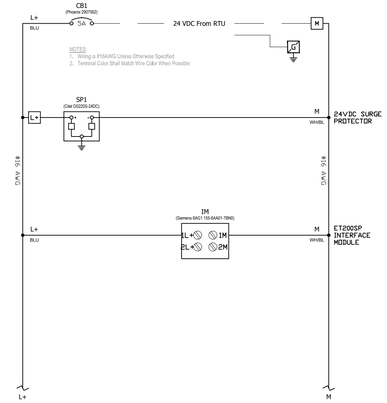




GENERATOR DISTRIBUTED I/O PANEL - BILL of MATERIAL					
ITEM	TAG	PART No.	DESCRIPTION	MANUFACTURER	QTY.
A		SPN4AL-16166-W	ENCLOSURE, NEMA 4X, ALUMINUM, WHITE PAINTED FINISH, 3-PT. LATCH	SCHAEFER	1
B		SPP-1616	BACK PANEL, 12ga. CARBON STEEL, WHITE ENAMEL FINISH	SCHAEFER	1
C	CB1	2907562	CIRCUIT BREAKER, UL489 BRANCH RATED, C-CURVE, 1-POLE, 5A	PHOENIX CONTACT	1
D	IM	6AG1 155-6AA01-7BN0	INTERFACE MODULE, SIPLUS ET200SP IM155-6PN STANDARD	SIEMENS	1
E		6AG1 131-6BF00-7BA0 6AG1 193-6BP00-7DA0	DIGITAL INPUT MODULE, SIPLUS ET200SP DI 8x24VDC ST BASE MODULE, WHITE	SIEMENS SIEMENS	3 3
F		6AG1 132-6HD00-7BB1 6AG1 193-6BP20-7BB1	DIGITAL OUTPUT MODULE, SIPLUS ET200SP RQ 4x120VDC/230VAC/5A ST BASE MODULE, BLACK	SIEMENS SIEMENS	1 1
G		6AG1 134-6GD00-7BA1 6AG1 193-6BP00-7DA0	ANALOG INPUT MODULE, SIPLUS ET200SP AI 4x1 2-/ 4-WIRE ST BASE MODULE, WHITE	SIEMENS SIEMENS	1 1
H	SP1	DS220S-24DC	SURGE PROTECTOR, 24VDC	CITEL	1
I	NI	2313931	PROFINET NETWORK ISOLATOR	PHOENIX CONTACT	1
J	M	2002-1406	TERMINAL, PUSH-IN, 1-CIRCUIT, YELLOW	WAGO	1
K	L+	2002-1404	TERMINAL, PUSH-IN, 1-CIRCUIT, BLUE	WAGO	1
L	G	2002-1407	TERMINAL, PUSH-IN, 1-CIRCUIT, GREEN/YELLOW, GROUNDING	WAGO	1
M		2002-1492	TERMINAL END PLATE, ORANGE	WAGO	3
N		249-116	END ANCHOR, 6mm, GRAY	WAGO	2
O		210-112	DIN RAIL, GALVANIZED, SLOTTED, 2M	WAGO	1
P		PK5GTA	EQUIPMENT GROUND BAR KIT	SQUARE D	1



GENERAL NOTES:
1. THIS DRAWING IS AN EXAMPLE OF HOW OVERALL CABINET IS TO BE DESIGNED
2. REFER TO NOTES AND DETAILS ON ALL DRAWING SHEETS
3. ALL FIELD WIRING SHALL BE #18 AWG STRANDED, TIN-PLATED COPPER
4. ALL FIELD WIRING SHALL CONNECT DIRECTLY TO I/O BASE TERMINALS USING FERRULES WITH END SLEEVES
5. ALL PLC I/O WIRING SHALL BE #18 AWG
6. ALL MOUNTING SCREWS SHALL BE DRILLED AND TAPPED (NO SELF-TAPPING SCREWS ARE ALLOWED)
7. ALL MOUNTING SCREWS SHALL BE STAINLESS STEEL
8. DIN RAIL SHALL BE MODEL 1492-DR9 OR EQUIVALENT

CONTROL TERMINAL COLOR:

ORANGE	+12VDC SUPPLY
BROWN	-12VDC SUPPLY
BLUE	+24VDC CONTROL CIRCUITS
YELLOW	-24VDC CONTROL CIRCUITS
GRAY	REMOTELY POWERED CIRCUITS
GREEN/YELLOW	GROUND

ENCLOSURE:

SPN4AL-16166-W (16"H x 16"W x 6"D) NEMA 4X RATED, FABRICATED FROM .125 MARINE GRADE ALUMINUM WITH WHITE POLYESTER POWDER COAT FINISH INSIDE AND OUT. DOOR IS FITTED WITH A CUSTOM 3-POINT LATCH AND PAD-LOCKABLE HANDLE.

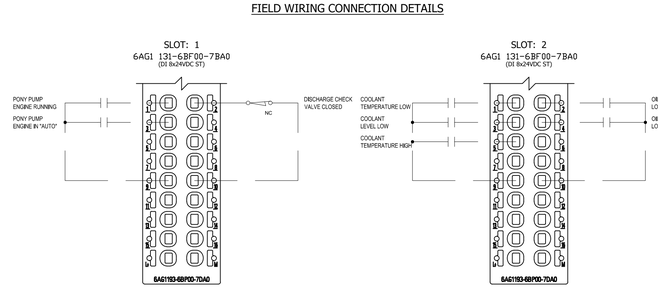
BACK PANEL:

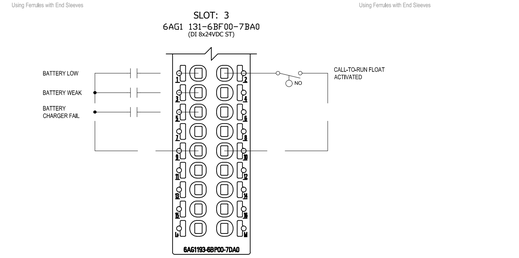
SPP-1616 (13"H x 13"W) FABRICATED FROM 12GA. CARBON STEEL WITH WHITE ENAMEL FINISH.

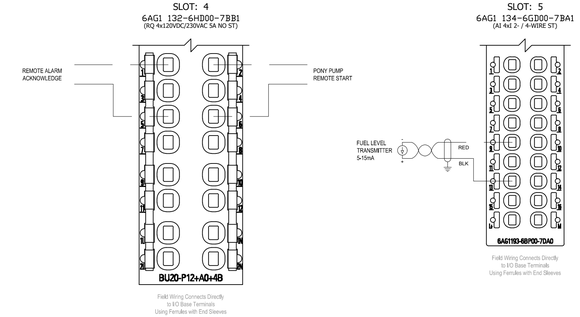
DRAWING LAYER COLOR LEGEND:

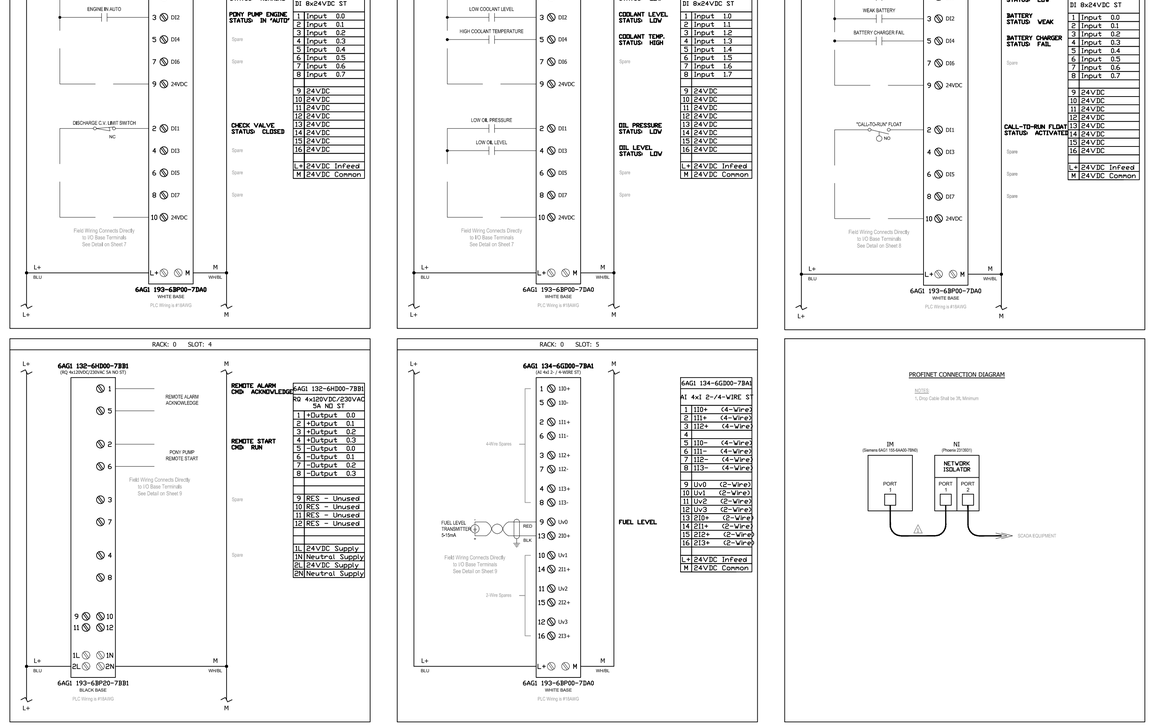
GREY	NOTES
BLACK	ELECTRICAL SCHEMATIC WIRING DIAGRAMS AND DEVICES
BLUE	PART IDENTIFICATION
PURPLE	WIRE NUMBERS
GREEN	FIELD DEVICES AND WIRING OUTSIDE ENCLOSURE (DASHED)
RED	FUTURE / OPTIONAL DEVICES AND WIRING
TEAL	DIMENSIONS

FIELD WIRING CONNECTION DETAILS









PROFINET CONNECTION DIAGRAM

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JEA STANDARD PUMP STATION DETAILS

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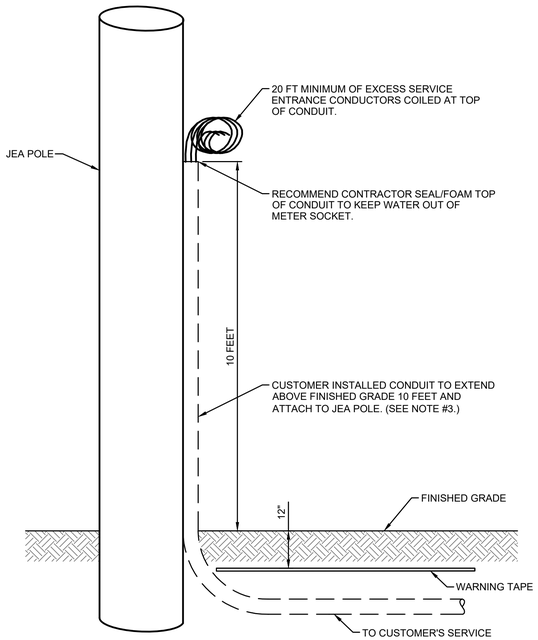
Xrefs Attached=

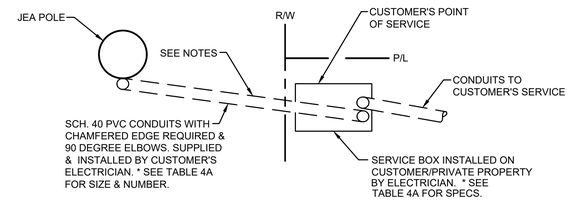


NOTES:

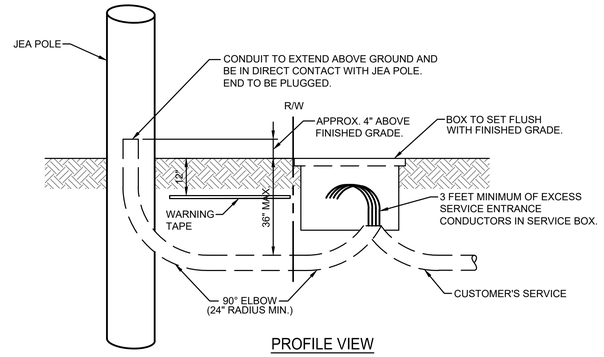
1. 100 AMP MAXIMUM SERVICE SIZE.
2. THE CUSTOMER WILL MAINTAIN THE WARNING TAPE, CONDUIT AND CONDUCTORS SHOWN.
3. THE CUSTOMER MUST PICK A CLEAR SIDE OF THE JEA POLE TO EXTEND UP CONDUIT, CLEAR FROM PHONE OR COMMUNICATION CABLES, OR ANY OTHER EQUIPMENT, FROM FINISHED GRADE TO JEA POINT OF SERVICE. CALL JEA DISTRIBUTION ENGINEER IF LOCATION IS REQUIRED.
4. THE JEA WILL MAKE ALL CONNECTIONS TO CUSTOMER'S SERVICE WIRE ON THE JEA POLE.
5. THE JEA WILL INSTALL CABLE GUARD ON JEA POLE AND COVER CUSTOMER'S SERVICE WIRE AND CONDUIT TO FINISHED GRADE.

COMMERCIAL SERVICE
100AMP MAXIMUM UNDERGROUND
SERVICE FROM AN OVERHEAD POLE

NOT TO SCALE



PLAN VIEW



PROFILE VIEW

NOTES:

1. THE MINIMUM DISTANCE BETWEEN THE SERVICE BOX AND SERVICE POLE IS 4 FEET.
2. THE CUSTOMER MUST PICK A CLEAR SIDE OF THE JEA POLE FOR THE JEA TO EXTEND UP THE POLE RISER, CLEAR FROM PHONE OR COMMUNICATION CABLES, OR ANY OTHER EQUIPMENT, FROM FINISHED GRADE TO CONNECTIONS TO OVERHEAD FACILITIES. CALL JEA DISTRIBUTION ENGINEER IF LOCATION IS REQUIRED.
3. THE JEA WILL MAINTAIN THE POLE RISER AND CONDUCTOR FROM THE OVERHEAD FACILITIES TO A CUSTOMER-PROVIDED SERVICE BOX.
4. THE JEA WILL MAKE ALL CONNECTIONS TO THE CUSTOMER'S SERVICE WIRE IN THE SERVICE BOX. SAID CONNECTIONS WILL BE THE CUSTOMER'S POINT OF SERVICE.

COMMERCIAL SERVICE
ABOVE 100 AMPS AND MULTI-METERED UNDERGROUND
SERVICE FROM AN OVERHEAD POLE

NOT TO SCALE

TABLE 4A

CONDUIT AND SERVICE BOX REQUIREMENTS FOR UNDERGROUND COMMERCIAL SERVICES FROM AN OVERHEAD POLE

SERVICE SIZE	CONDUIT SIZE (From Service Box to JEA Overhead Pole)	SERVICE BOX SIZE
20A - 150A	1-2 in	13" x 24" x 18" d
151A -200A	1-3 in	17" x 30" x 18" d
201A - 399A	1-3 in	24" x 36" x 18" d
400A-800A	400A=1-4 in 401-800A=2-4 in	30" x 48" x 24" d manhole
801A-1400A	801-1000A=2-4 in 1001-1400A=3-4 in	36" x 60" x 36" d manhole

NOTE:

1. ALL CONDUITS TO BE SCHEDULE 40 PVC WITH CHAMFERED EDGES REQUIRED. CONDUIT SIZE AND NUMBER DOES NOT HAVE TO MATCH CUSTOMERS' SERVICE CONDUIT SIZE, TYPE, AND NUMBER.
2. ALL CONDUIT RADIUS TO BE 24 INCH MINIMUM.
3. JEA WILL ALLOW THE OPTION OF PURCHASING THESE BOXES FROM AN ELECTRICAL SUPPLY HOUSE. THESE BOXES MUST MEET THE FOLLOWING SPECIFICATIONS.
4. SERVICE BOX SIZE MAY VARY FOR 3 PHASE APPLICATIONS.
5. CONTACT JEA SERVICE ENGINEER FOR CONDUIT AND BOX LOCATION.

TECHNICAL SPECIFICATIONS

MATERIAL SPECIFICATIONS:

SERVICE BOX

1. TOP: COMPRESSION MOLDED POLYMER CONCRETE WITH MINIMUM THICKNESS OF TWO INCHES.
2. BODY: REINFORCED PLASTIC MORTAR (RPM) CONSISTING OF FIBERGLASS AND ISOPHOLIC RESIN. THE BASE WILL HAVE A FLANGE OF TWO INCHES FROM THE INSIDE WALL.
3. RING: THE RING WILL BE OF POLYMER CONCRETE AND WILL BE PERMANENTLY FUSED TO THE BODY DURING THE CURING PROCESS.

MANHOLE

1. MANHOLE BODY SHALL BE OF ONE PIECE CONSTRUCTION WITH A SOLID COVER.
2. MANHOLE DIMENSIONS SHALL BE 60" L X 36" W X 36"D.

LOAD RATING:

1. LOAD RATING: H-10 (INCIDENTAL TRAFFIC).
2. LOAD RATINGS SHALL BE IN ACCORDANCE WITH ASTM, C-857-87 (STD. PRACTICE FOR MINIMUM STRUCTURAL DESIGN LOADING FOR UG PRECAST CONCRETE UTILITY STRUCTURES) AASHTO AND WESTERN UNDERGROUND COMMITTEE RECOMMENDED GUIDELINES RULE 3.6 DATED 6-15-87.

MISCELLANEOUS REQUIREMENTS:

1. HARDWARE: TWO CAPTIVE STAINLESS PENTA HEAD BOLTS FOR SECURING TOP. BOLT HEADS WILL BE FLUSH WITH TOP OF COVER.
2. IDENTIFICATION: EACH TOP WILL HAVE THE WORD "ELECTRIC" PERMANENTLY MARKED INTO THE TOP.

ELECTRICAL NOTES

1. GROUND WIRE SHALL RUN FROM THE CHASSIS CONTINUOUS THROUGH THE METER CAN TO 2 GROUND RODS SPACED 6 FEET APART AND TERMINATE ON A FENCE POST IN CONCRETE.
2. ELECTRICAL ENCLOSURES SHALL BE ORIENTED SUCH THAT THE FRONT OF THE ENCLOSURE FACES THE INTERIOR OF THE PUMP STATION SITE.
3. QUANTITY AND SIZE OF NEMA 4x 316-STAINLESS STEEL ENCLOSURES AS REQUIRED FOR STATION OPERATION.
4. SERVICE DISCONNECT SHALL BE MANUAL FUSE 3 PHASE-4 WIRE

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JEA STANDARD PUMP STATION DETAILS

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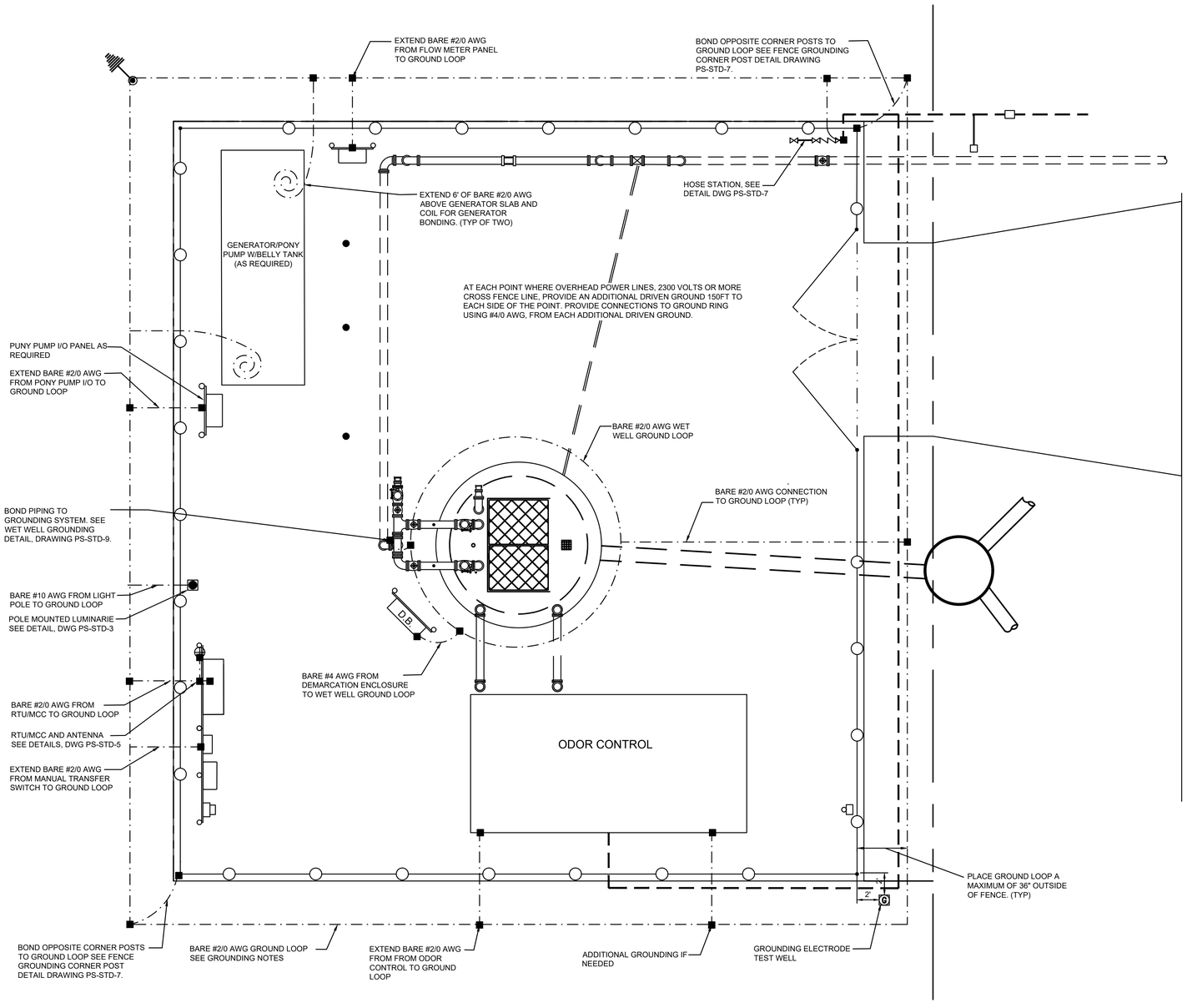

PUMP STATION GROUNDING SITE PLAN

NOT TO SCALE

GROUNDING SYMBOL LEGEND

- GROUND CONDUCTOR (SIZE AS REQUIRED BY NOTES)
- EXOTHERMIC OR COMPRESSION CONNECTION
- GROUND ROD AND CONNECTION
- GROUND TEST WELL WITH GROUND ROD
- GROUND CONDUCTOR COILED ABOVE GRADE OR SLAB FOR FUTURE CONNECTION

GROUNDING NOTES:

PROVIDE A COMPLETE ELECTRICAL GROUNDING SYSTEM WITH A MEASURED GROUND RESISTANCE OF 5 OHMS OR LESS.

GROUNDING COMPONENTS AND MATERIALS SHALL BE NEW AND UNDAMAGED.

INSULATED GROUND CONDUCTOR SHALL BE SOFT DRAWN, TIN PLATED, STRANDED COPPER CONFORMING TO THE REQUIREMENTS OF UL 83. INSULATED GROUND CONDUCTOR SHALL BE TYPE TW OR THW, AND GREEN COLORED INSULATION. MINIMUM SIZE FOR INSULATED GROUND CONDUCTORS, REGARDLESS OF APPLICATION SHALL BE #12 AWG.

BURIED GROUND LOOP CONDUCTORS

A. GROUND LOOP CONDUCTOR SHALL BE BARE #2/0 AWG, SOFT DRAWN, TIN PLATED STRANDED COPPER CONDUCTOR UNLESS OTHERWISE NOTED.

B. BARE GROUND CONDUCTORS BELOW GRADE, SHALL HAVE A MINIMUM OF 18 INCHES AND A MAXIMUM OF 30 INCHES COVER FROM FINISHED GRADE. BARE GROUND CONDUCTORS UNDER FOUNDATIONS OR SLABS, SHALL HAVE A MINIMUM OF 6 INCHES OF EARTH COVER BETWEEN THE TOP OF CONDUCTOR CONDUCTOR AND THE FOUNDATION OR SLAB.

C. BARE GROUND CONDUCTORS THAT PENETRATE THROUGH EXPOSED SLABS OR WET WELL WALL, SHALL DO SO THROUGH A 3/4" x 12" (MIN), SCHED 40 PVC SLEEVE. WITH GROUND WIRE CENTERED IN SLEEVE, FILL TOP OF SLEEVE WITH APPROVED SEALANT TO A DEPTH AT LEAST 3 TIMES THE OUTSIDE DIAMETER OF THE SLEEVE. ALL WIRES PROTRUDING TO THE SURFACE SHALL BE TIN PLATED.

D. BARE GROUND CONDUCTOR SHALL BE DIRECTLY BURIED IN EARTH; TO WITHIN 24 TO 36 INCHES FROM BASE OF STRUCTURES OR EQUIPMENT IDENTIFIED FOR GROUNDING.

GROUND RODS

A. SHALL BE COPPER CLAD MIN 13MIL, COLD DRAWN CARBON STEEL MANUFACTURED IN ACCORDANCE WITH UL 467, WITH THE COPPER CLADDING BONDED TO THE STEEL ROD BY ELECTROLYTIC, OR MOLTEN WELDING PROCESS. GROUND RODS SHALL HAVE A CONICAL TAPER ON PENETRATING END. EACH GROUND ROD SHALL BE 10-FOOT BY 3/4 INCH DIAMETER SECTIONS.

B. THERE SHALL BE A MINIMUM OF 2 GROUND RODS THAT SHALL BE DRIVEN TO A MINIMUM OF 60FT EACH. IF GROUND RODS ARE UNABLE TO BE DRIVEN 60FT OR 5 OHMS IS NOT ACHIEVED THEN ADDITIONAL GROUND RODS MUST BE DRIVEN TILL THE 5 OHMS IS REACHED. IF AN ADDITIONAL GROUND ROD IS REQUIRED IT MUST BE DRIVEN IN A CORNER THAT DOESN'T HAVE A ROD.

C. GROUND RODS SHALL BE CONNECTED BY COMPRESSION COUPLINGS, SCREW COUPLINGS WILL NOT BE ACCEPTED.

5. GROUNDING SYSTEM HARDWARE

A. GROUNDING SYSTEM HARDWARE, INCLUDING CLAMPS, CONNECTORS, BOLTS, WASHERS, AND NUTS, SHALL BE TIN PLATED COPPER.

B. SPLICES, JOINTS, AND CONNECTIONS BELOW GRADE SHALL BE EXOTHERMIC OR IRREVERSIBLE COMPRESSION TYPE. THREADED OR BOLTED COUPLINGS ARE NOT ACCEPTABLE EXCEPT WHERE NOTED IN GROUNDING DETAILS.

C. PREPARE CONDUCTORS AND CONNECTORS PER MANUFACTURERS REQUIREMENTS. REMAKE CONNECTIONS THAT FAIL MANUFACTURER'S RECOMMENDED TESTS.

D. GROUNDING CONNECTIONS SHALL ENCOMPASS 100 PERCENT OF THE GROUND CONDUCTOR AND CONDUCTOR ENDS.

E. GROUND LUGS SHALL BE SINGLE OR TWO-HOLE, HEAVY-DUTY, TIN PLATED COPPER BARS CONFORMING TO THE REQUIREMENTS OF IEEE 837 AND UL 467. TWO-HOLE GROUND LUGS SHALL HAVE NEMA CENTERLINE HOLE SPACING. GROUND LUGS USING AN EXOTHERMIC PROCESS SHALL BE SIMILAR TO TYPE LA AS MANUFACTURED BY ERICO.

F. MAKE CABLE CONNECTIONS TO BUS BARS USING HIGH-COMPRESSION LUGS. GROUND LUGS USED WITH THE COMPRESSION PROCESS SHALL BE TYPE YGHA AS MANUFACTURED BY BURNDY ELECTRICAL.

6. BOND PIPING TO GROUNDING SYSTEM VIA CONNECTION AT THE LAST FLANGE BEFORE PIPES RETURN UNDERGROUND. SEE WET WELL GROUNDING DETAIL.

7. GROUNDING BY USE OF ANCHOR BOLTS, AGAINST GASKETS, ON PAINTED OR VARNISHED SURFACES, OR ON BOLTS HOLDING REMOVABLE ACCESS COVERS WILL NOT BE ACCEPTABLE.

8. GROUND RESISTANCE SHALL BE CERTIFIED BY AN INDEPENDENT GROUNDING SYSTEM TESTING ORGANIZATION. TESTING SHALL BE DONE AT EACH TEST WELL USING THE 3-POINT FALL OF POTENTIAL METHOD. THIS DOCUMENT MUST BE SUBMITTED AT THE TIME OF STARTUP FOR FINAL ACCEPTANCE.

9. NO CHEMICALS SHALL BE USED TO REDUCE THE RESISTANCE UNLESS APPROVED BY JEA.

10 A MINIMUM OF 5 OHMS OF SHALL BE GUARANTEED BY THE CONTRACTOR FOR 3 YEARS FROM THE SITES ACCEPTANCE. IF THE RESISTANCE FAILS IN THIS TIME THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDING ADDITIONAL GROUND RODS AT THE CONTRACTORS EXPENSE.

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JEA STANDARD PUMP STATION DETAILS

PROJ. NO. 21-01-0057
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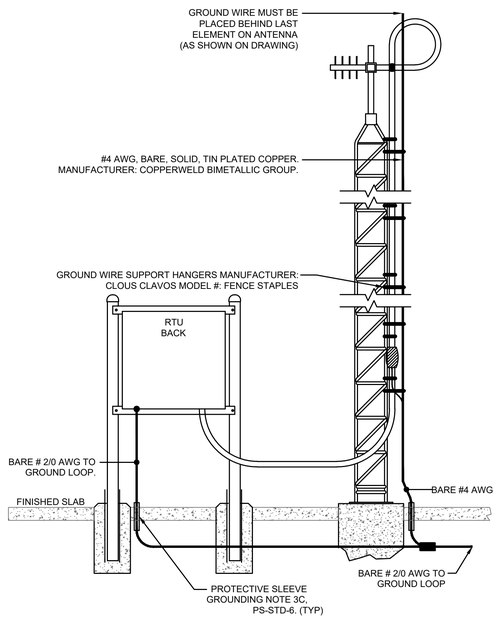

ALTERNATE ANTENNA - GROUNDING DETAIL

FOR POLE HEIGHTS 20 FEET AND ABOVE
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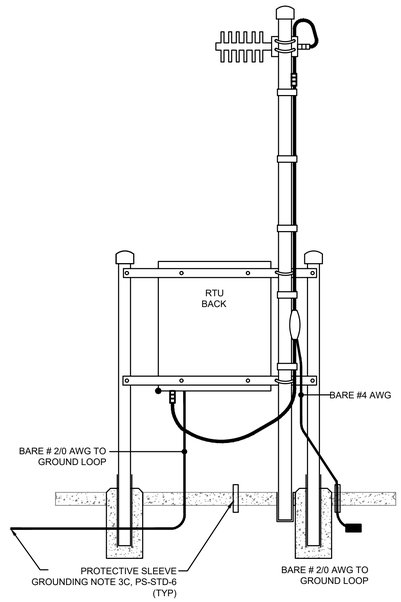

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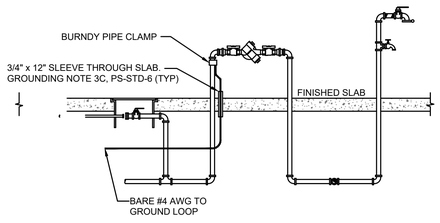

HOSE STATION GROUNDING DETAIL

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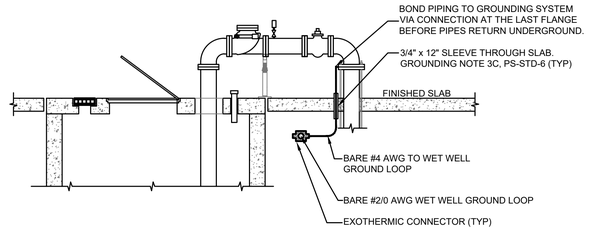

WETWELL GROUNDING DETAIL

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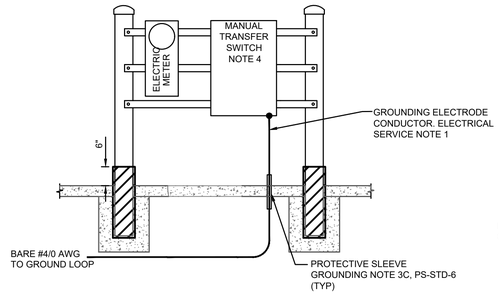

MANUAL TRANSFER SWITCH GROUNDING DETAIL

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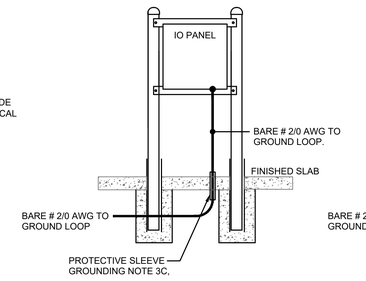

PONY PUMP I/O GROUNDING DETAIL

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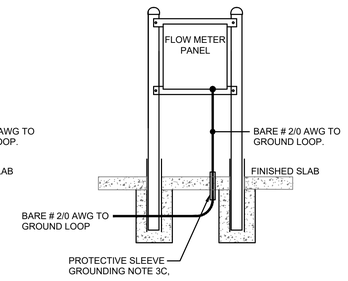

FLOW METER GROUNDING DETAIL

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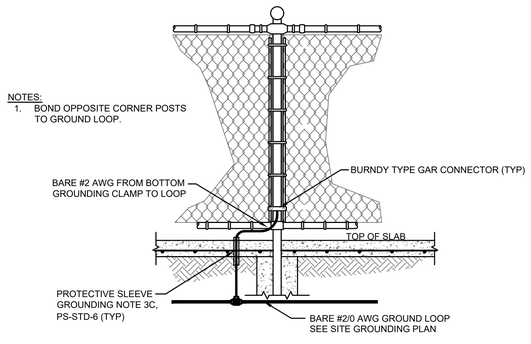

FENCE GROUNDING CORNER POST DETAIL

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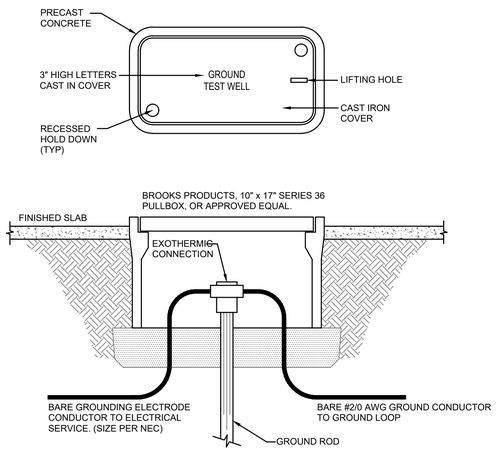

GROUND SYSTEM TEST WELL DETAIL

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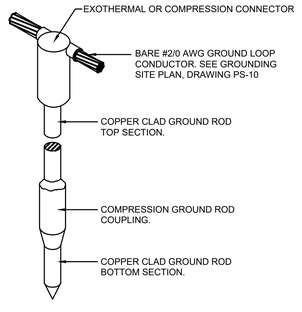

TYPICAL GROUND ROD & CONNECTION DETAIL

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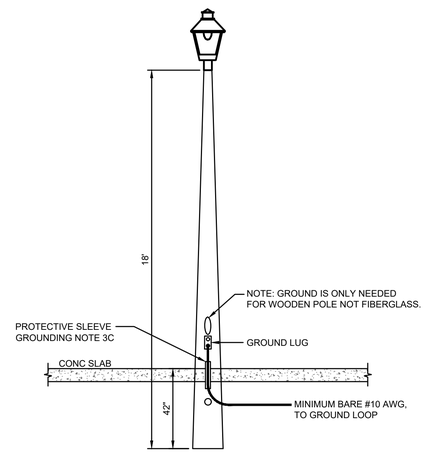

SITE LIGHT GROUNDING DETAIL

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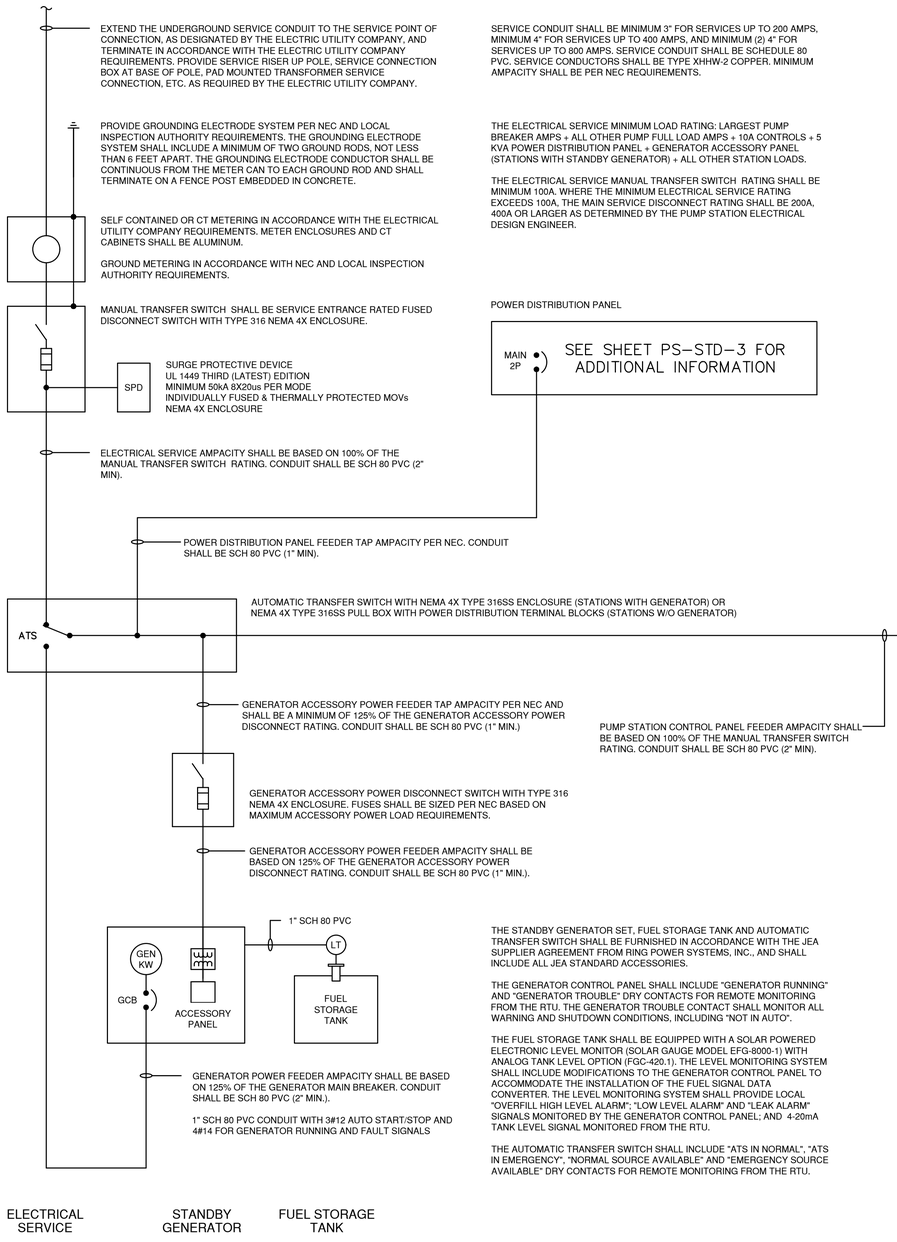

ELECTRIC SINGLE LINE DETAIL DIGRAM

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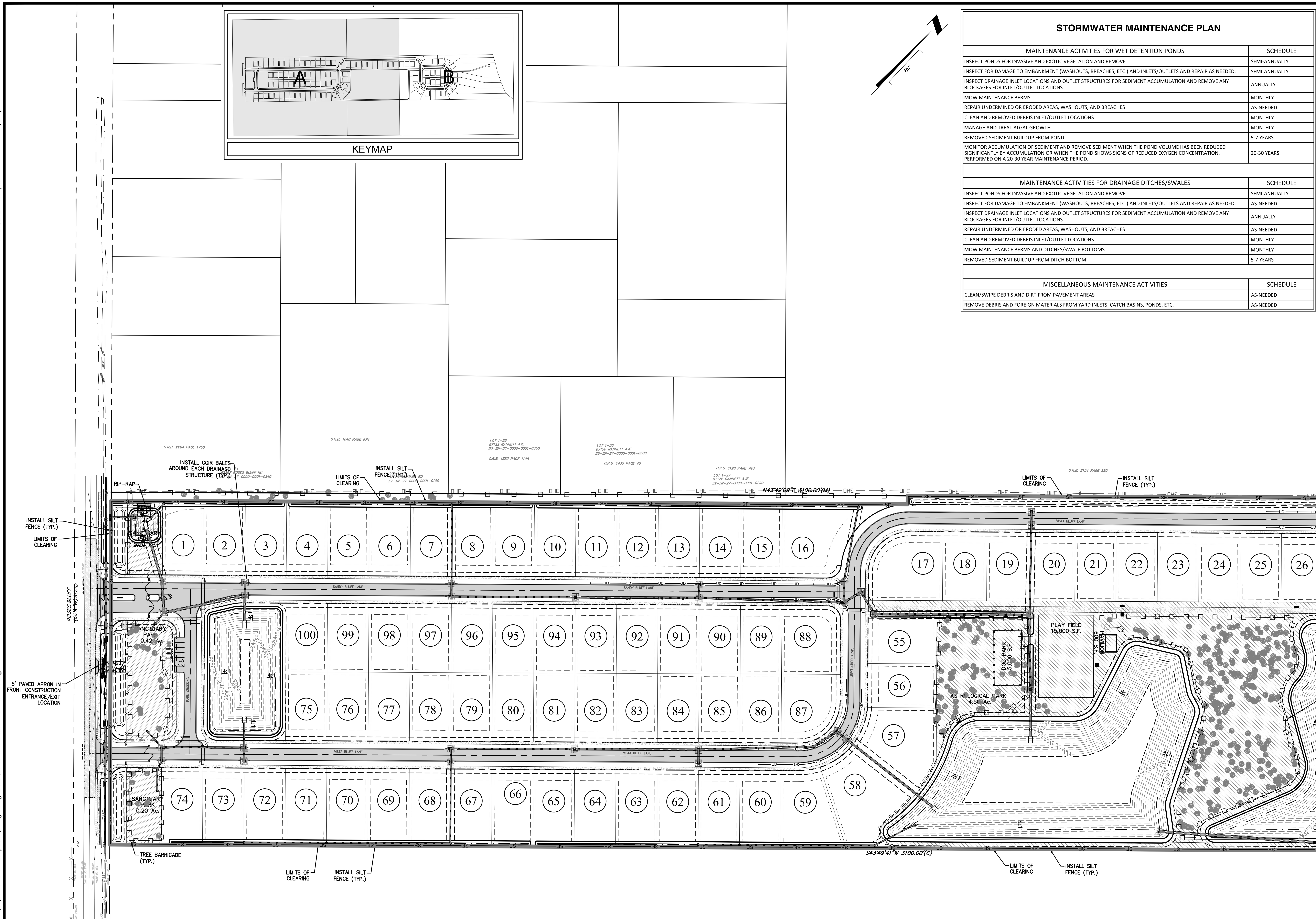

STORMWATER MAINTENANCE PLAN

MAINTENANCE ACTIVITIES FOR WET DETENTION PONDS	SCHEDULE
INSPECT PONDS FOR INVASIVE AND EXOTIC VEGETATION AND REMOVE	SEMI-ANNUALLY
INSPECT FOR DAMAGE TO EMBANKMENT (WASHOUTS, BREACHES, ETC.) AND INLETS/OUTLETS AND REPAIR AS NEEDED.	SEMI-ANNUALLY
INSPECT DRAINAGE INLET LOCATIONS AND OUTLET STRUCTURES FOR SEDIMENT ACCUMULATION AND REMOVE ANY BLOCKAGES FOR INLET/OUTLET LOCATIONS	ANNUALLY
MOW MAINTENANCE BERMS	MONTHLY
REPAIR UNDERMINED OR ERODED AREAS, WASHOUTS, AND BREACHES	AS-NEEDED
CLEAN AND REMOVED DEBRIS INLET/OUTLET LOCATIONS	MONTHLY
MANAGE AND TREAT ALGAL GROWTH	MONTHLY
REMOVED SEDIMENT BUILDUP FROM POND	5-7 YEARS
MONITOR ACCUMULATION OF SEDIMENT AND REMOVE SEDIMENT WHEN THE POND VOLUME HAS BEEN REDUCED SIGNIFICANTLY BY ACCUMULATION OR WHEN THE POND SHOWS SIGNS OF REDUCED OXYGEN CONCENTRATION. PERFORMED ON A 20-30 YEAR MAINTENANCE PERIOD.	20-30 YEARS

MAINTENANCE ACTIVITIES FOR DRAINAGE DITCHES/SWALES	SCHEDULE
INSPECT PONDS FOR INVASIVE AND EXOTIC VEGETATION AND REMOVE	SEMI-ANNUALLY
INSPECT FOR DAMAGE TO EMBANKMENT (WASHOUTS, BREACHES, ETC.) AND INLETS/OUTLETS AND REPAIR AS NEEDED.	AS-NEEDED
INSPECT DRAINAGE INLET LOCATIONS AND OUTLET STRUCTURES FOR SEDIMENT ACCUMULATION AND REMOVE ANY BLOCKAGES FOR INLET/OUTLET LOCATIONS	ANNUALLY
REPAIR UNDERMINED OR ERODED AREAS, WASHOUTS, AND BREACHES	AS-NEEDED
CLEAN AND REMOVED DEBRIS INLET/OUTLET LOCATIONS	MONTHLY
MOW MAINTENANCE BERMS AND DITCHES/SWALE BOTTOMS	MONTHLY
REMOVED SEDIMENT BUILDUP FROM DITCH BOTTOM	5-7 YEARS

MISCELLANEOUS MAINTENANCE ACTIVITIES	SCHEDULE
CLEAN/SWIPE DEBRIS AND DIRT FROM PAVEMENT AREAS	AS-NEEDED
REMOVE DEBRIS AND FOREIGN MATERIALS FROM YARD INLETS, CATCH BASINS, PONDS, ETC.	AS-NEEDED

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SEDIMENT AND EROSION CONTROL PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

MARY E. LEAPTROTT LICENSE No. 61449 STATE OF FLORIDA PROFESSIONAL ENGINEER

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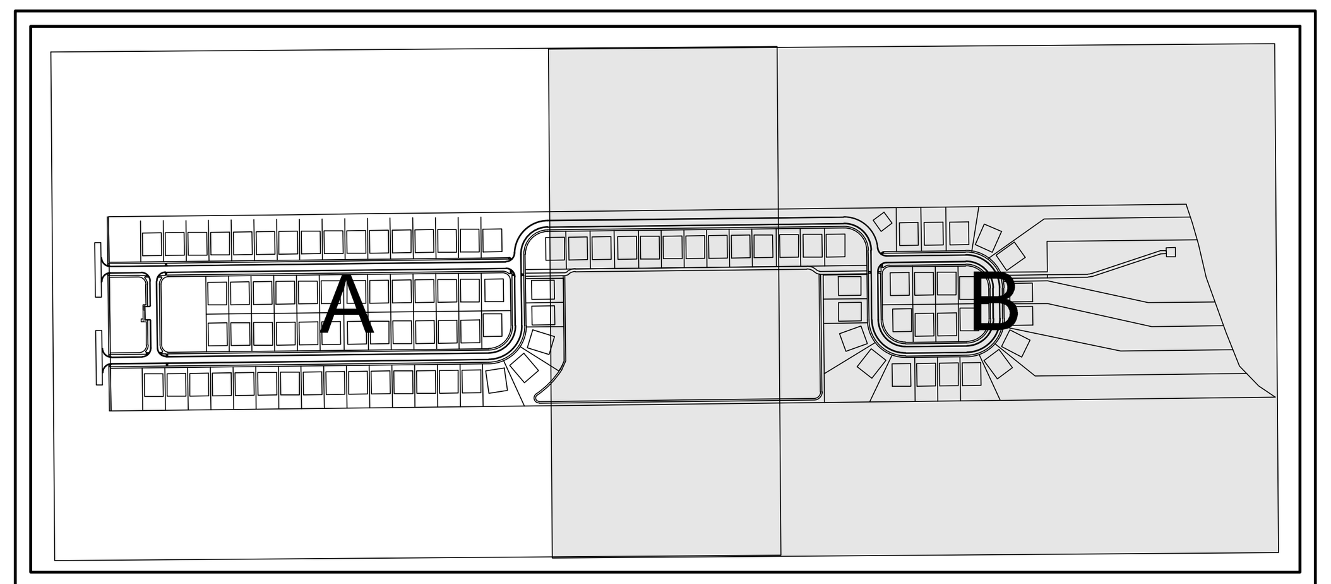


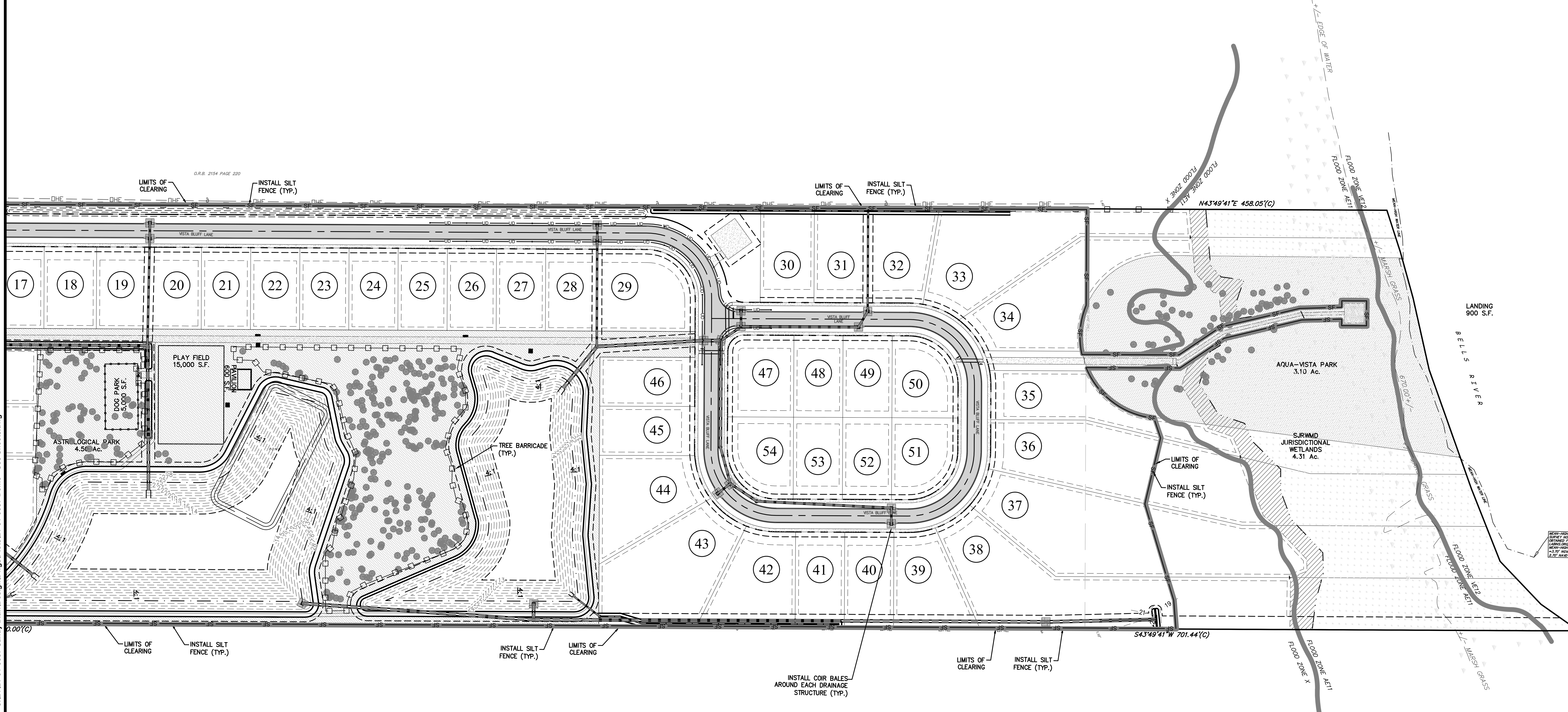
KEYMAP

STORMWATER MAINTENANCE PLAN

MAINTENANCE ACTIVITIES FOR WET DETENTION PONDS	SCHEDULE
INSPECT PONDS FOR INVASIVE AND EXOTIC VEGETATION AND REMOVE	SEMI-ANNUALLY
INSPECT FOR DAMAGE TO EMBANKMENT (WASHOUTS, BREACHES, ETC.) AND INLETS/OUTLETS AND REPAIR AS NEEDED.	SEMI-ANNUALLY
INSPECT DRAINAGE INLET LOCATIONS AND OUTLET STRUCTURES FOR SEDIMENT ACCUMULATION AND REMOVE ANY BLOCKAGES FOR INLET/OUTLET LOCATIONS	ANNUALLY
MOW MAINTENANCE BERMS	MONTHLY
REPAIR UNDERMINED OR ERODED AREAS, WASHOUTS, AND BREACHES	AS-NEEDED
CLEAN AND REMOVED DEBRIS INLET/OUTLET LOCATIONS	MONTHLY
MANAGE AND TREAT ALGAL GROWTH	MONTHLY
REMOVED SEDIMENT BUILDUP FROM POND	5-7 YEARS
MONITOR ACCUMULATION OF SEDIMENT AND REMOVE SEDIMENT WHEN THE POND VOLUME HAS BEEN REDUCED SIGNIFICANTLY BY ACCUMULATION OR WHEN THE POND SHOWS SIGNS OF REDUCED OXYGEN CONCENTRATION. PERFORMED ON A 20-30 YEAR MAINTENANCE PERIOD.	20-30 YEARS

MAINTENANCE ACTIVITIES FOR DRAINAGE DITCHES/SWALES	SCHEDULE
INSPECT PONDS FOR INVASIVE AND EXOTIC VEGETATION AND REMOVE	SEMI-ANNUALLY
INSPECT FOR DAMAGE TO EMBANKMENT (WASHOUTS, BREACHES, ETC.) AND INLETS/OUTLETS AND REPAIR AS NEEDED.	AS-NEEDED
INSPECT DRAINAGE INLET LOCATIONS AND OUTLET STRUCTURES FOR SEDIMENT ACCUMULATION AND REMOVE ANY BLOCKAGES FOR INLET/OUTLET LOCATIONS	ANNUALLY
REPAIR UNDERMINED OR ERODED AREAS, WASHOUTS, AND BREACHES	AS-NEEDED
CLEAN AND REMOVED DEBRIS INLET/OUTLET LOCATIONS	MONTHLY
MOW MAINTENANCE BERMS AND DITCHES/SWALE BOTTOMS	MONTHLY
REMOVED SEDIMENT BUILDUP FROM DITCH BOTTOM	5-7 YEARS

MISCELLANEOUS MAINTENANCE ACTIVITIES	SCHEDULE
CLEAN/SWIPE DEBRIS AND DIRT FROM PAVEMENT AREAS	AS-NEEDED
REMOVE DEBRIS AND FOREIGN MATERIALS FROM YARD INLETS, CATCH BASINS, PONDS, ETC.	AS-NEEDED



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Florida Registry 3650 L.A. Number: LC26000311

No.	Date	Revision	By

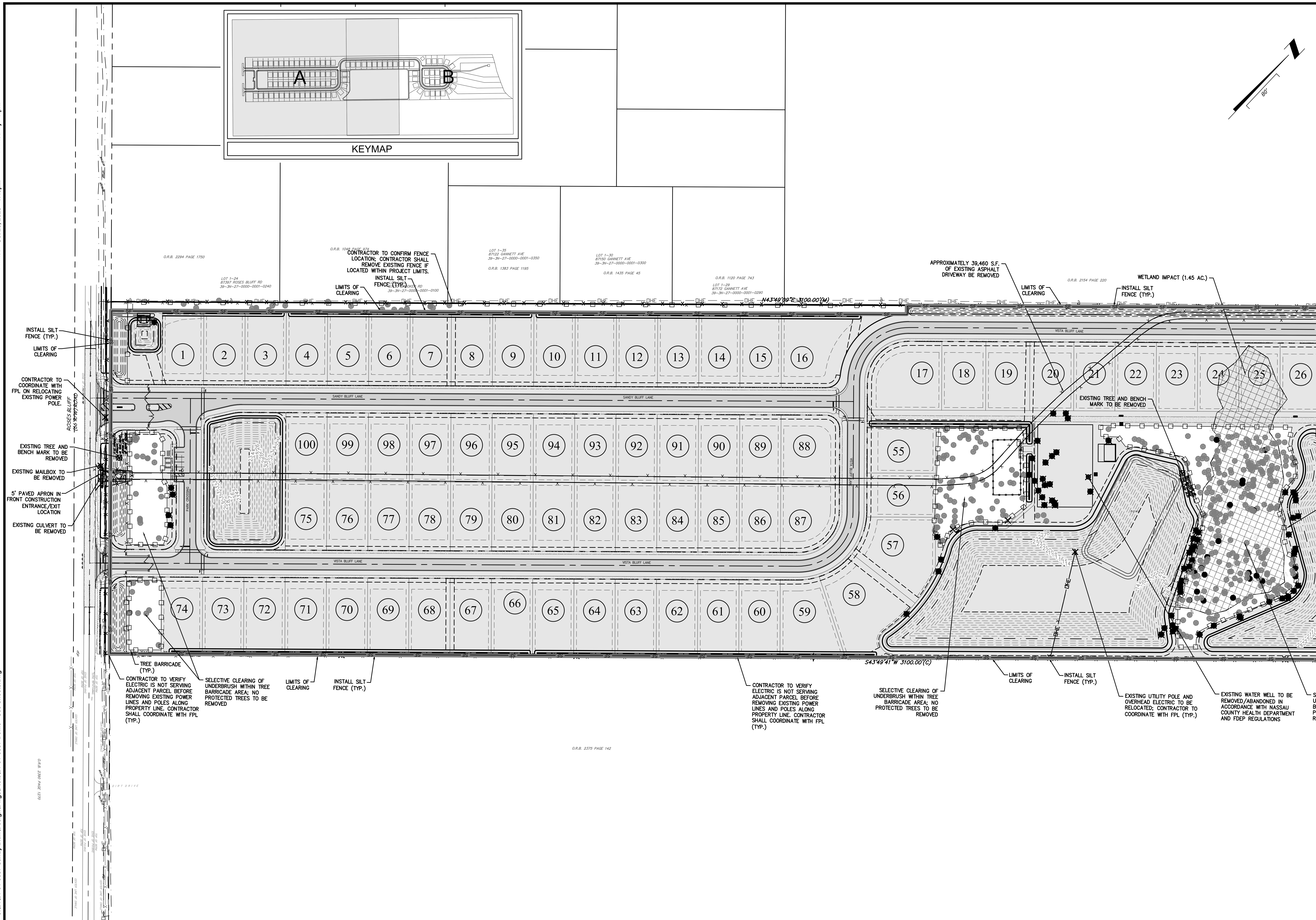
SEDIMENT AND EROSION CONTROL PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

MART E. LEAPTROT, LICENSE No. 61449, STATE OF FLORIDA, PROFESSIONAL ENGINEER

Project No.: 21-01-0057	
Designed: MEL	Drawn: ANB
Date: 10/25/23	Scale: 1"=80'
Sheet 17B	



KEYMAP
A
B
INSTALL SILT FENCE (TYP.)
LIMITS OF CLEARING
CONTRACTOR TO COORDINATE WITH FPL ON RELOCATING EXISTING POWER POLE.
EXISTING TREE AND BENCH MARK TO BE REMOVED
EXISTING MAILBOX TO BE REMOVED
5' PAVED APRON IN FRONT CONSTRUCTION ENTRANCE/EXIT LOCATION
EXISTING CULVERT TO BE REMOVED
CONTRACTOR TO CONFIRM FENCE LOCATION; CONTRACTOR SHALL REMOVE EXISTING FENCE IF LOCATED WITHIN PROJECT LIMITS.
INSTALL SILT FENCE (TYP.)
LIMITS OF CLEARING
APPROXIMATELY 39,460 S.F. OF EXISTING ASPHALT DRIVEWAY BE REMOVED
WETLAND IMPACT (1.45 AC.)
EXISTING TREE AND BENCH MARK TO BE REMOVED
SANDY BLUFF LANE
VISTA BLUFF LANE
N43°49'39"E 3100.00'(M)
S43°49'41"W 3100.00'(C)
TREE BARRICADE (TYP.)
CONTRACTOR TO VERIFY ELECTRIC IS NOT SERVING ADJACENT PARCEL BEFORE REMOVING EXISTING POWER LINES AND POLES ALONG PROPERTY LINE. CONTRACTOR SHALL COORDINATE WITH FPL (TYP.)
SELECTIVE CLEARING OF UNDERBRUSH WITHIN TREE BARRICADE AREA; NO PROTECTED TREES TO BE REMOVED
LIMITS OF CLEARING
INSTALL SILT FENCE (TYP.)
EXISTING UTILITY POLE AND OVERHEAD ELECTRIC TO BE RELOCATED; CONTRACTOR TO COORDINATE WITH FPL (TYP.)
EXISTING WATER WELL TO BE REMOVED/ABANDONED IN ACCORDANCE WITH NASSAU COUNTY HEALTH DEPARTMENT AND FDEP REGULATIONS
O.R.B. 2375 PAGE 142
80'

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DEMOLITION PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

MARY E. LEAPTROTT LICENSE No. 61449 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MARY E. LEAPTROTT, PE ON THE DATE ADJACENT TO THE SEAL.

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DEMOLITION PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

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MARK E. LEAPHART, P.E. LICENSE
No. 61449
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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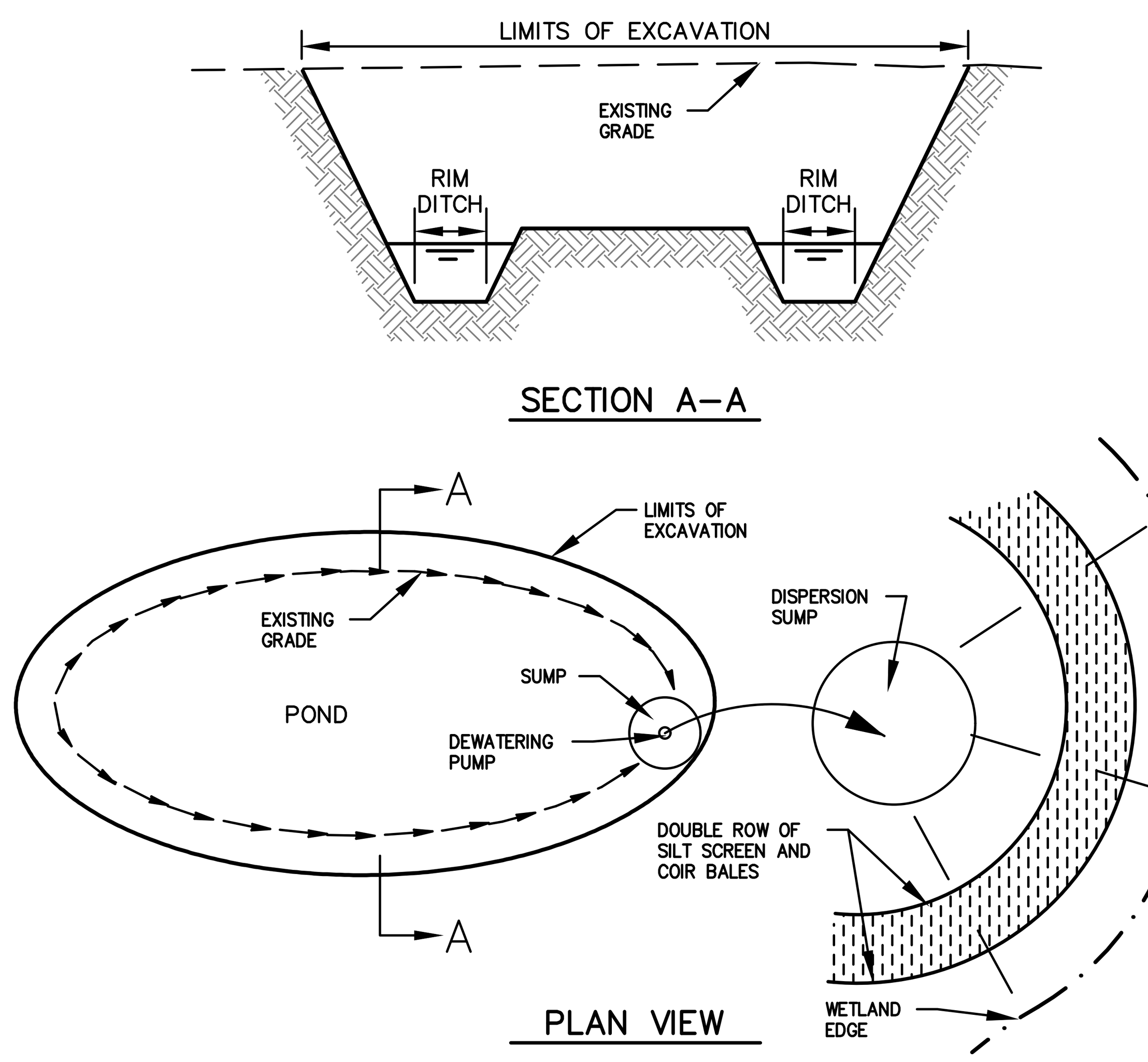
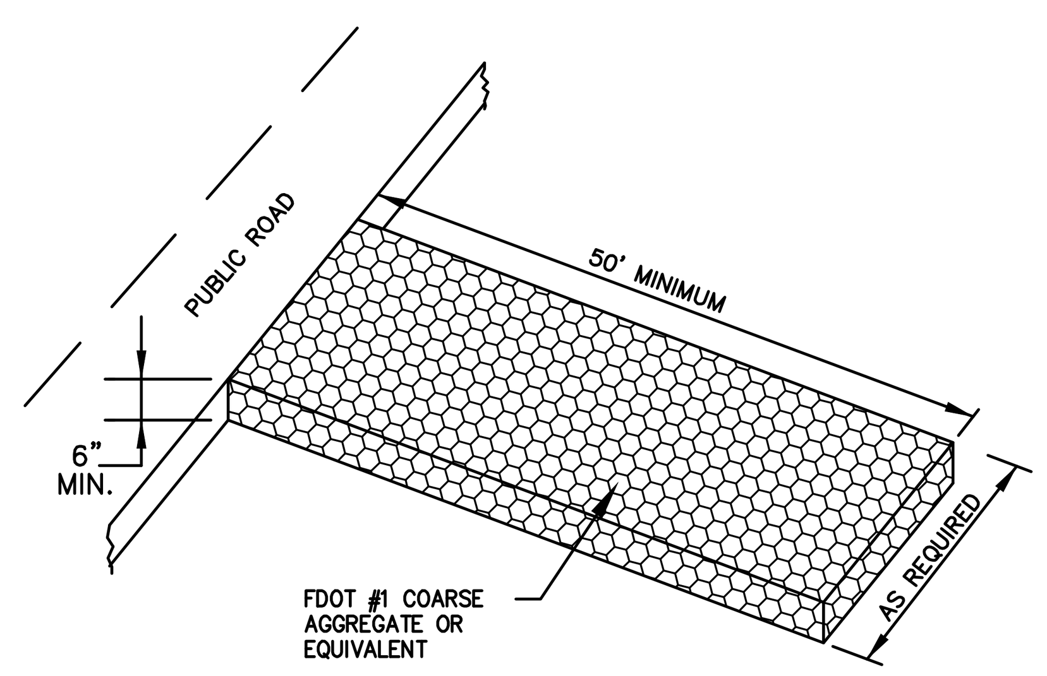
SEDIMENT AND EROSION CONTROL NOTES

1. 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.
2. 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.
3. 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.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. 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 REQUIRED, THE STRIPS SHALL BE OVERLAPPED.
6. FDOT NO. 1 COARSE 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.
7. 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.
8. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. 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.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE COIR SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. COIR BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. 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.
17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE COIR BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
18. 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.
19. 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.
20. STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS REQUIRED.
21. 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.
22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
23. 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.P.) CHAPTER 6.
24. 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.
25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
26. 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.
27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
28. 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, COIR BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
30. 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.
31. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
32. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS AND MEETING THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, NASSAU COUNTY AND NPDES FINAL STABILIZATION REQUIREMENTS.
34. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. 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 PROTECTION (F.D.E.P.) CHAPTER 6. 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.
35. 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)



TEMPORARY DEWATERING DETAIL

N.T.S.



STABILIZED CONSTRUCTION ENTRANCE

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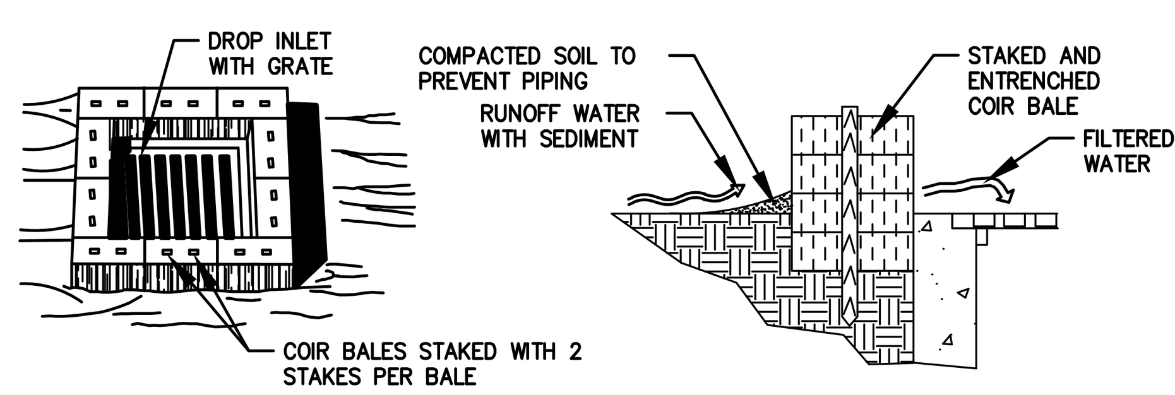
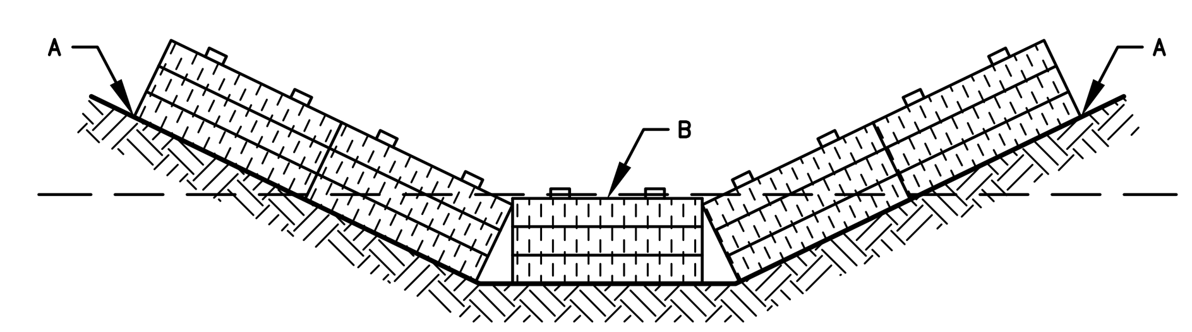


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

COIR BALE DROP INLET SEDIMENT FILTER

N.T.S.



PROPER PLACEMENT OF COIR BALE IN A DRAINAGE WAY

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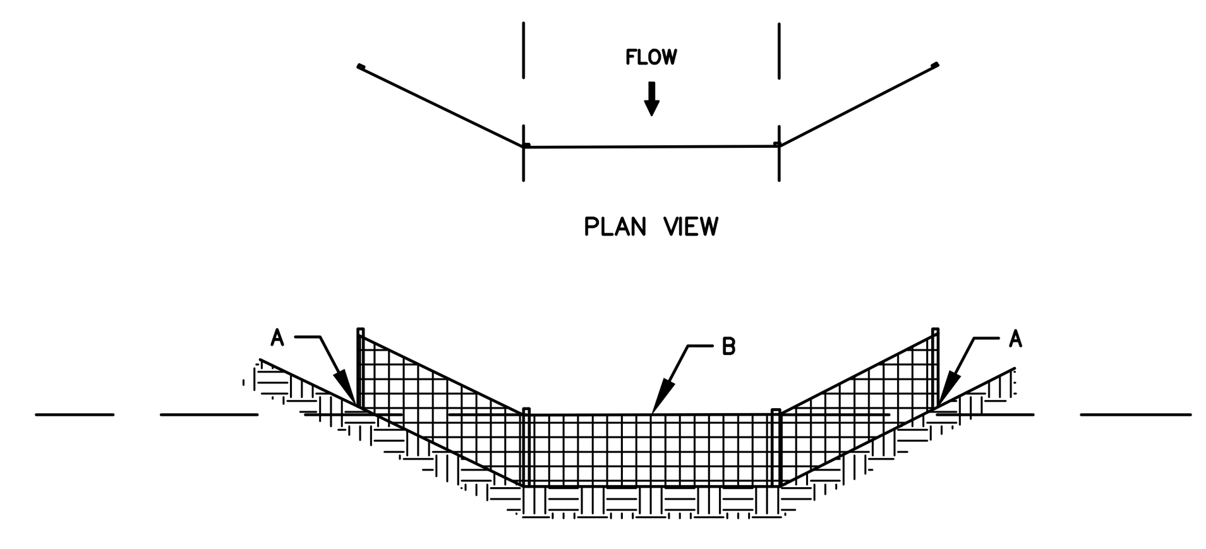
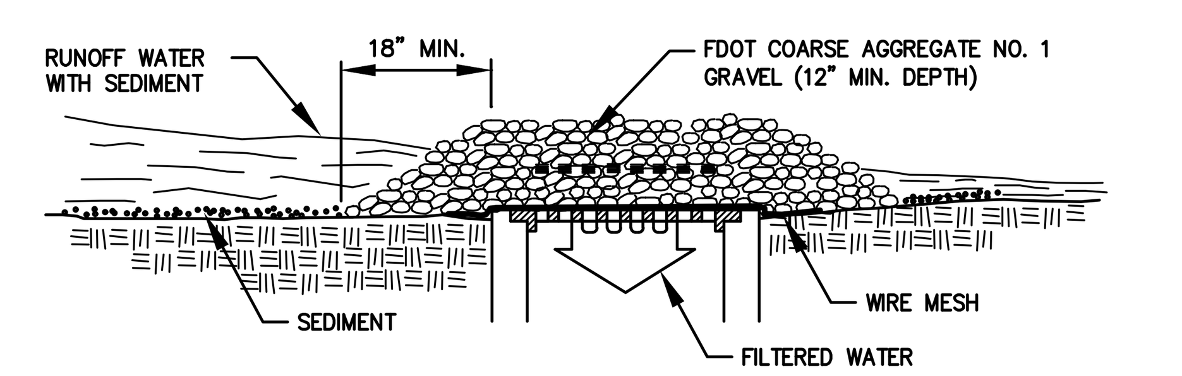


PROPER PLACEMENT OF A FILTER BARRIER IN DRAINAGE WAY

N.T.S.



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

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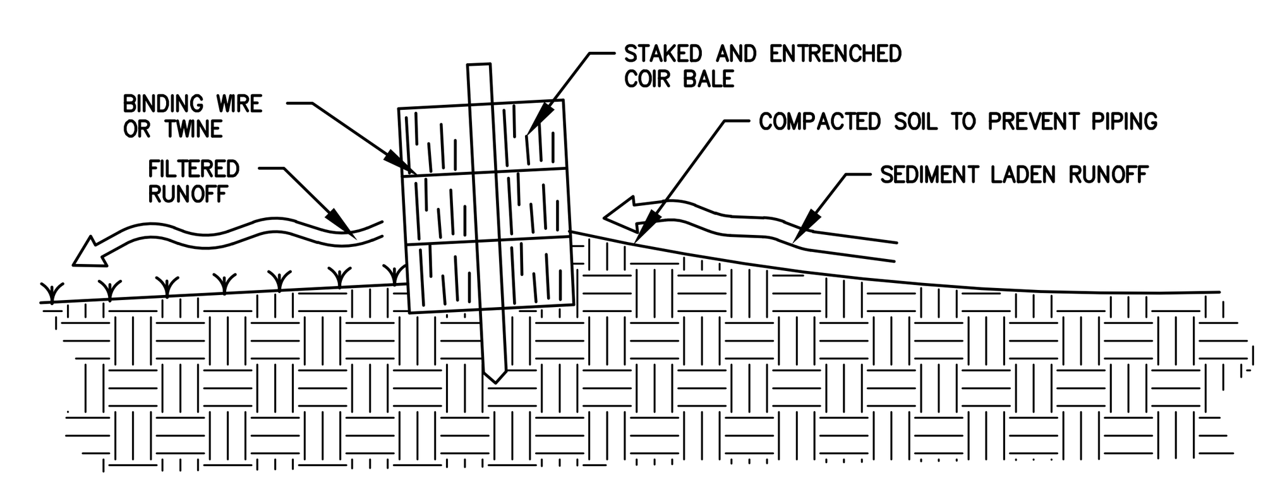

CROSS-SECTION OF A PROPERLY INSTALLED COIR BALE

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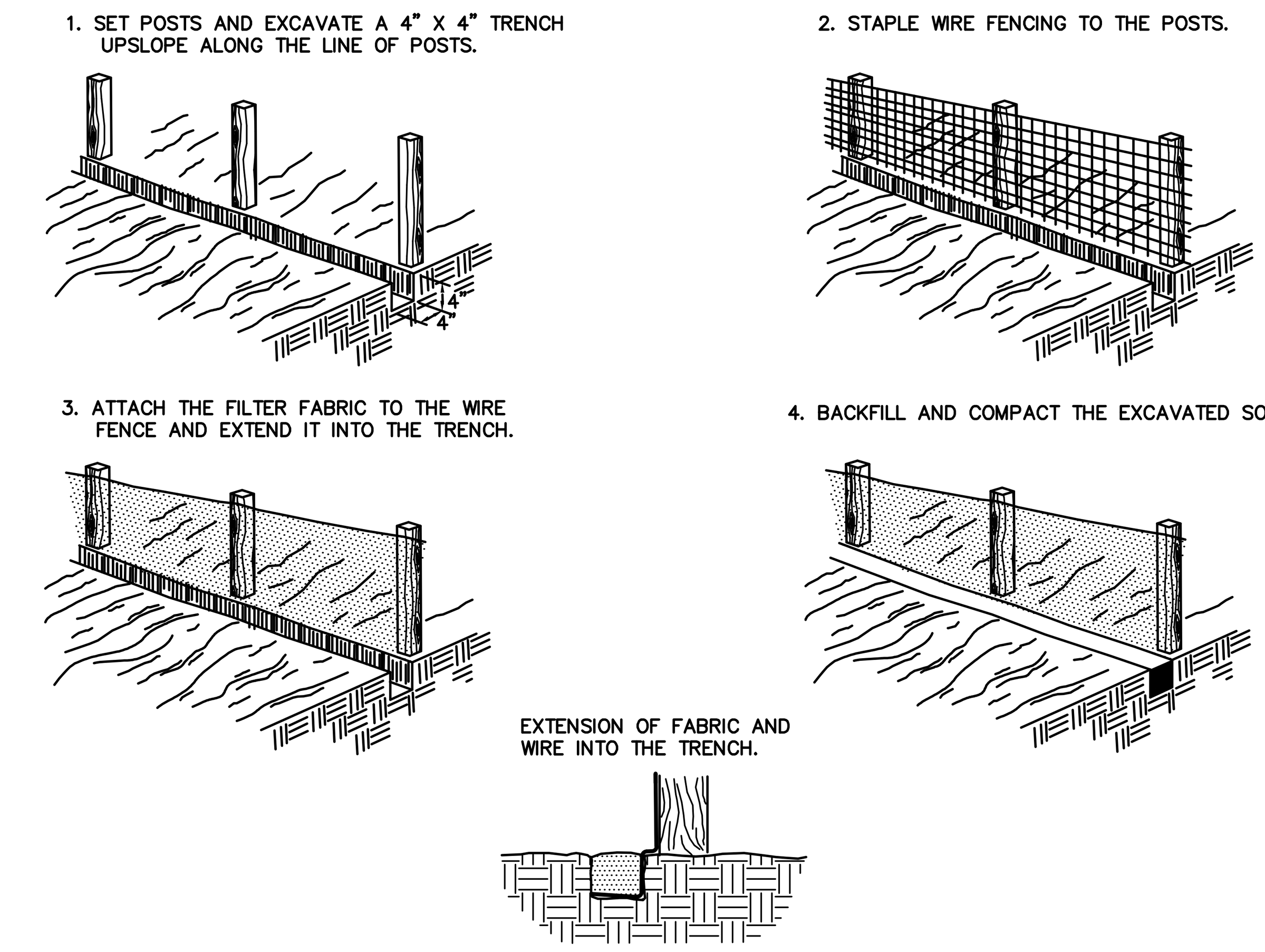

CONSTRUCTION OF SILT FENCE

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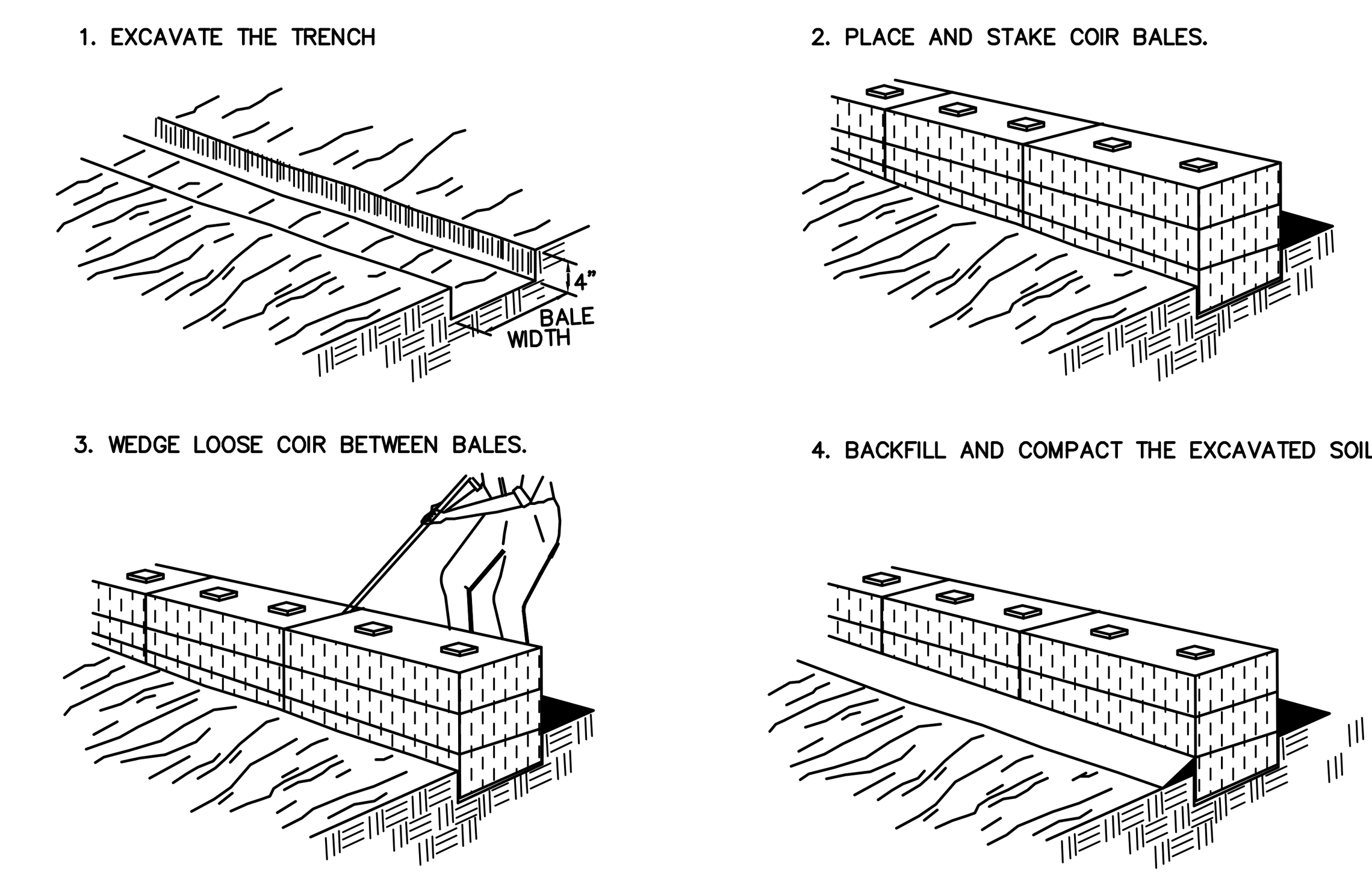

CONSTRUCTION OF A COIR BALE BARRIER

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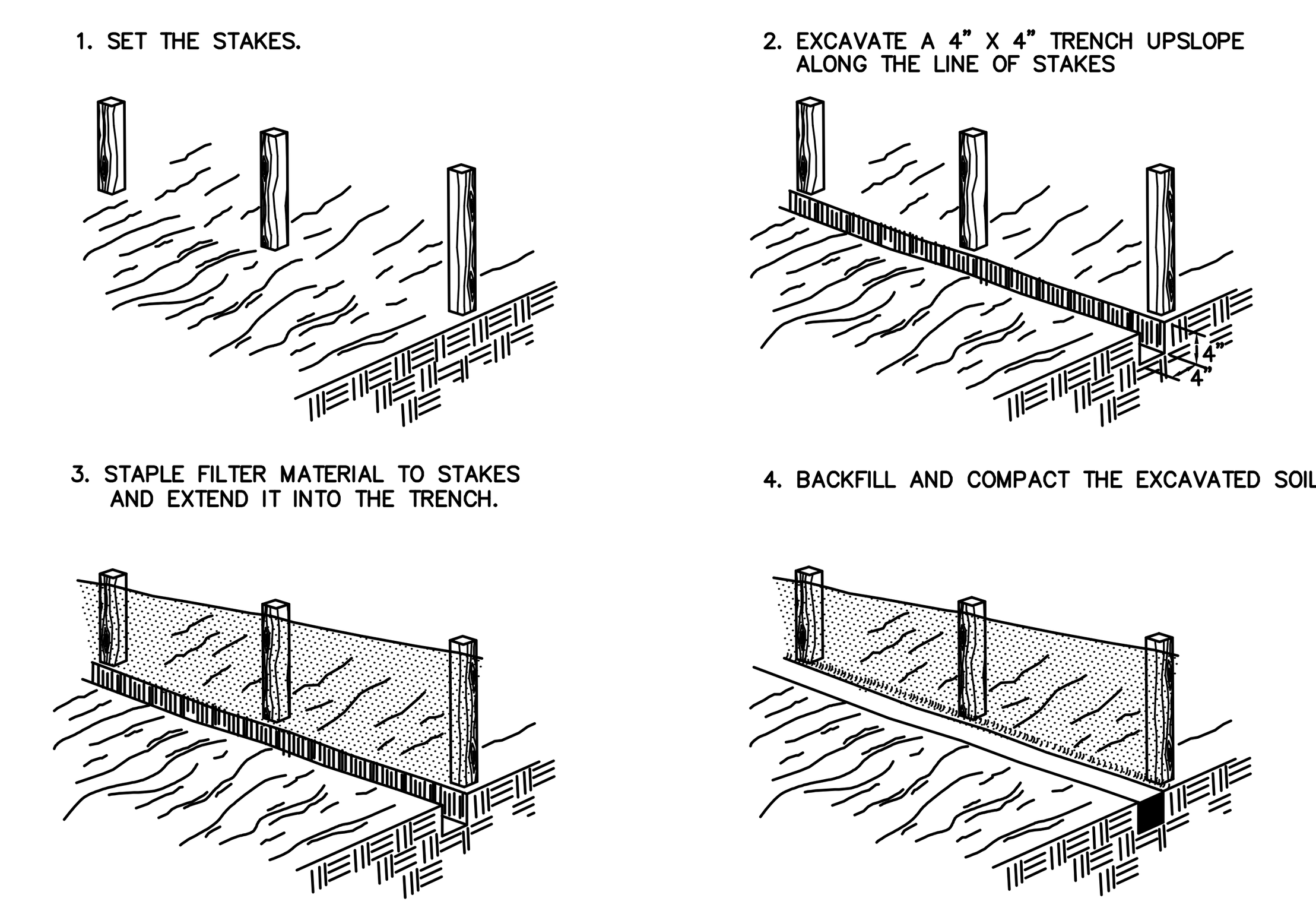

CONSTRUCTION OF A FILTER BARRIER

N.T.S.

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SEDIMENT AND EROSION CONTROL DETAILS

SANDY BLUFF SUBDIVISION

PREPARED FOR

SANDY BLUFF DEVELOPMENT INC

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MARY E. LEAPTROTT, PE ON THE DATE ADJACENT TO THE SEAL.

MARY E. LEAPTROTT LICENSE No. 61449 STATE OF FLORIDA PROFESSIONAL ENGINEER

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OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
SANDY BLUFF SUBDIVISION
YULEE, FLORIDA

OWNER/DEVELOPER NAME AND ADDRESS:

SANDY BLUFF DEVELOPMENT INC
2120 CORPORATE SQUARE BLVD. SUITE #7
JACKSONVILLE, FL 32216
(904) 493-6909

DESCRIPTION:

THIS PROJECT WILL CONSIST OF:

CONSTRUCTION OF A 100 SINGLE FAMILY UNIT DEVELOPMENT. CONSTRUCTION WILL CONSIST OF INSTALLATION OF UNDERGROUND UTILITIES, CLEARING, GRADING, STORMWATER MANAGEMENT FACILITIES ROADWAYS, PARKING AREAS, AND ASSOCIATED CONSTRUCTION.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING; INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR THE SEDIMENTATION POND, STORM SEWER, UTILITIES, AND BUILDING FOUNDATION; CONSTRUCTION OF CURB AND GUTTER, ROAD, AND PARKING AREAS; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

GENERALIZED RUNOFF CURVE NUMBERS (REFER TO DRAINAGE CALCULATIONS FOR ACTUAL CURVE NUMBER FOR EACH BASIN)

1. PRE-CONSTRUCTION = 60±
2. DURING CONSTRUCTION = 79±
3. POST-CONSTRUCTION = 79±

SOILS:
- SEE ATTACHED FOR SOILS DATA

SITE MAPS:
- SEE ATTACHED DWG. No. 9A – 9D FOR POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.
- SEE ATTACHED DWG. No. 17A – 17B FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS

SITE AREA:
1. TOTAL AREA OF SITE = 53.88 AC±
2. TOTAL AREA TO BE DISTURBED = 48.20 AC±

NAME OF RECEIVING WATERS: HEADWATERS OF BELLS RIVER (ST MARY'S RIVER)

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. DWG. No. 17A – 17B HAVE BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE.

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

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

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

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

POLLUTION PREVENTION PLAN CERTIFICATION

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

SIGNED:____________________

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

DATE:____________________

CONTRACTOR'S REQUIREMENTS

GENERAL

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

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

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

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

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND COIR BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN (DRAWING NO. 17A – 17B)

CONTROLS

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

EROSION AND SEDIMENT CONTROLS
STABILIZATION PRACTICES

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

STRUCTURAL PRACTICES

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

OTHER CONTROLS

WASTE DISPOSAL

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

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

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

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

INVENTORY FOR POLLUTION PREVENTION PLAN

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

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

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

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

GOOD HOUSEKEEPING

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

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS

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

* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

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

FERTILIZERS

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

PAINTS

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

CONCRETE TRUCKS

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

SPILL CONTROL PRACTICES

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

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

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

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

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

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

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

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

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

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

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUDED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER.

* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.

* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM SHALL BE COMPLETED BY THE INSPECTOR
THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.
THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED.
THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE. SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

* IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

* WATER FROM WATER LINE FLUSHING

* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

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

CONTRACTOR'S CERTIFICATION

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

DEWATERING

PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.

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

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No.	Date	Revision	By
7	:		
6	:		
5	:		
4	:		
3	:		
2	:		
1	:		

STORMWATER
POLLUTION
PREVENTION PLAN

SANDY BLUFF
SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MARY E. LEAPTROTT, PE ON THE DATE ADJACENT TO THE SEAL.

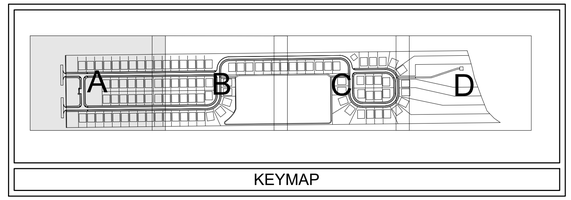
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

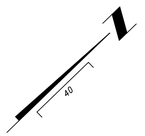
MARY E. LEAPTROTT
No. 61449

Project No.: 21-01-0057
Designed: MEL
Drawn: ANB
Date: 10/25/23
Scale:
Sheet 20

PENDANT LIGHTING

Manufacturer	Style	Fixture	Pole Options	Bracket Options	Light Pattern	Line Watts/ NEMA Label	Color Temp	Lumens	Glare Rating (BUG)	.ies File	Billing Tier
Holophane	Bern		3, 4, 8	3	3	58/60	4000K	7,609	B1-U0-G1	GBLF3_P30_40K_ASY_BK_ RFD327869.ies	D10
		(Turtle-friendly amber)	3, 4, 8	3	3	57/60	Amber	1,995 (no shield) 1,434 (rear shield) 816 (front shield)	B1-U0-G0	Upon Request	D10

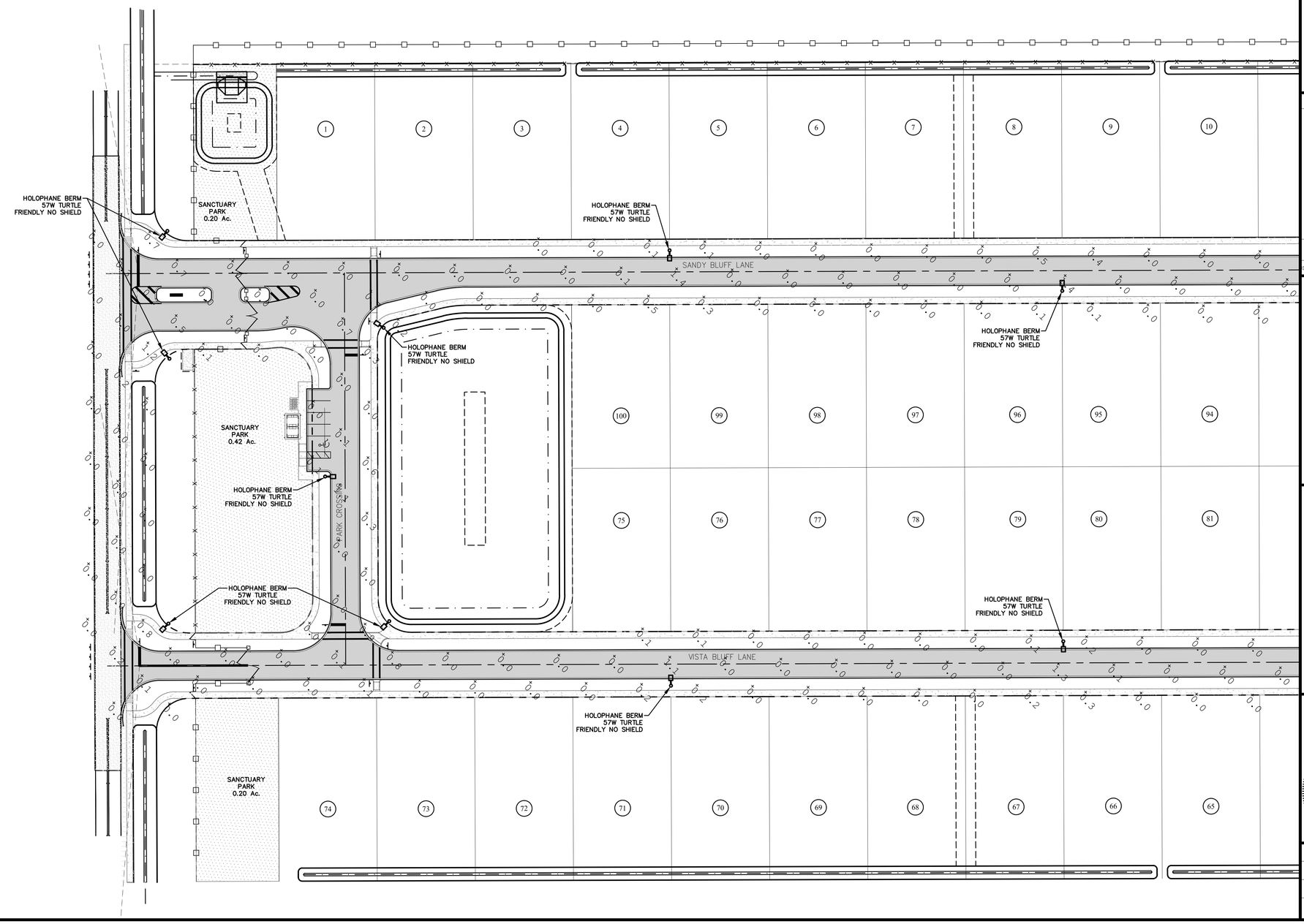




PROPOSED PARKING AREA
AVERAGE FOOTCANDLES: 0.13
MAXIMUM FOOTCANDLES: 1.40
MINIMUM FOOTCANDLES: 0.00

PROPOSED LIGHTING FIXTURE
(24) HOLOPHANE BERM 57W TURTLE FRIENDLE NO SHIELD (GBLF2 P10 AMB XX X X FC3)

NOTES:
1. PRE SECTION IV.M. OF THE PUD, STREET LIGHTING WILL FACE IN A DOWNWARD DIRECTION EXCEPT AT THE ENTRANCE SIGN, FLAG POLE, IF ANY, THE WATERFRONT LANDING AREA & DOCK OR TO ACCENT TREES WITHIN THE PARKS.
2. PROPOSED LIGHT POLES WILL BE BLACK WASHINGTON CONCRETE WITH A MOUNTING HEIGHT OF 16' AND AN ARM LENGTH OF 6'.
3. THE FOUNDATION DESIGN TO BE COVERED IN SHOP DRAWING PROCESS.



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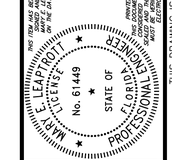
No.	Date	Revision	By

PHOTOMETRIC PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC



Project No.: 21-01-0057	
Designed: MEL	Drawn: ANB
Date: 10/25/23	Scale: 1"=40'
Sheet 21A	

Printed: Oct 25, 2023 - 1:49pm
Printed By: April
J:\21\21-01-0057 Sandy Bluff\Design\Dwgs\Plots\21-01-0057 Photometric Sheets.dwg

PENDANT LIGHTING

Manufacturer	Style	Fixture	Pole Options	Bracket Options	Light Pattern	Line Watts/ NEMA Label	Color Temp	Lumens	Glare Rating (BUG)	Jes File	Billing Tier
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		(Turtle-friendly amber)	3, 4, 8	3	3	57/60	Amber	1,995 (no shield) 1,434 (rear shield) 816 (front shield)	B1-U0-G0	Upon Request	D10

NOTES:
1. PRE SECTION IV.M. OF THE PUD, STREET LIGHTING WILL FACE IN A DOWNWARD DIRECTION EXCEPT AT THE ENTRANCE SIGN, FLAG POLE, IF ANY. THE WATERFRONT LANDING AREA & DOCK OR TO ACCENT TREES WITHIN THE PARKS.
2. PROPOSED LIGHT POLES WILL BE BLACK WASHINGTON CONCRETE WITH A MOUNTING HEIGHT OF 16' AND AN ARM LENGTH OF 6'.
3. THE FOUNDATION DESIGN TO BE COVERED IN SHOP DRAWING PROCESS.

PROPOSED PARKING AREA
AVERAGE FOOTCANDLES: 0.13
MAXIMUM FOOTCANDLES: 1.40
MINIMUM FOOTCANDLES: 0.00

PROPOSED LIGHTING FIXTURE
(24) HOLOPHANE BERM 57W TURTLE FRIENDLE NO SHIELD (GBLF2 P10 AMB XX X X FC3)

KEYMAP

Connelly & Wicker Inc.
Planning · Engineering · Landscape Architecture
10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.cwieng.com
Florida Registry 3650 L.A. Number: LC26000311

No.	Date	Revision	By

PHOTOMETRIC PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

Project No.: 21-01-0057	
Designed: MEL	Drawn: ANB
Date: 10/25/23	Scale: 1"=40'

Sheet 21B

Printed: Oct 25, 2023 - 1:49pm Printed By: April

J:\21\21-01-0057 Sandy Bluff\Design\Dwgs\Plots\21-01-0057 Photometric Sheets.dwg

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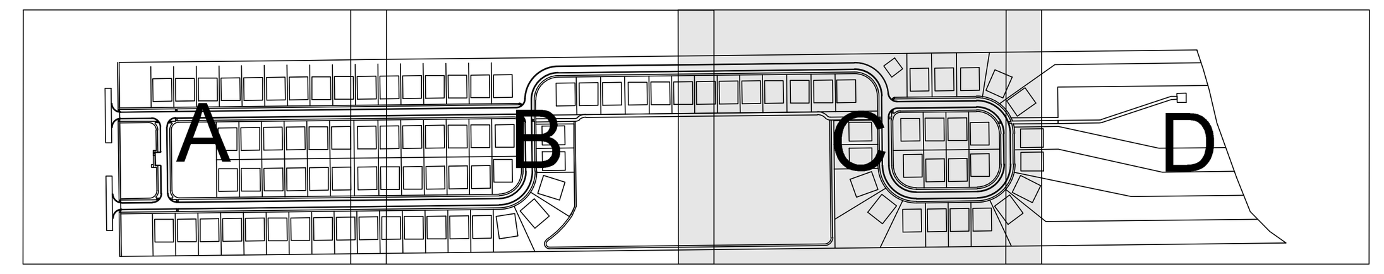


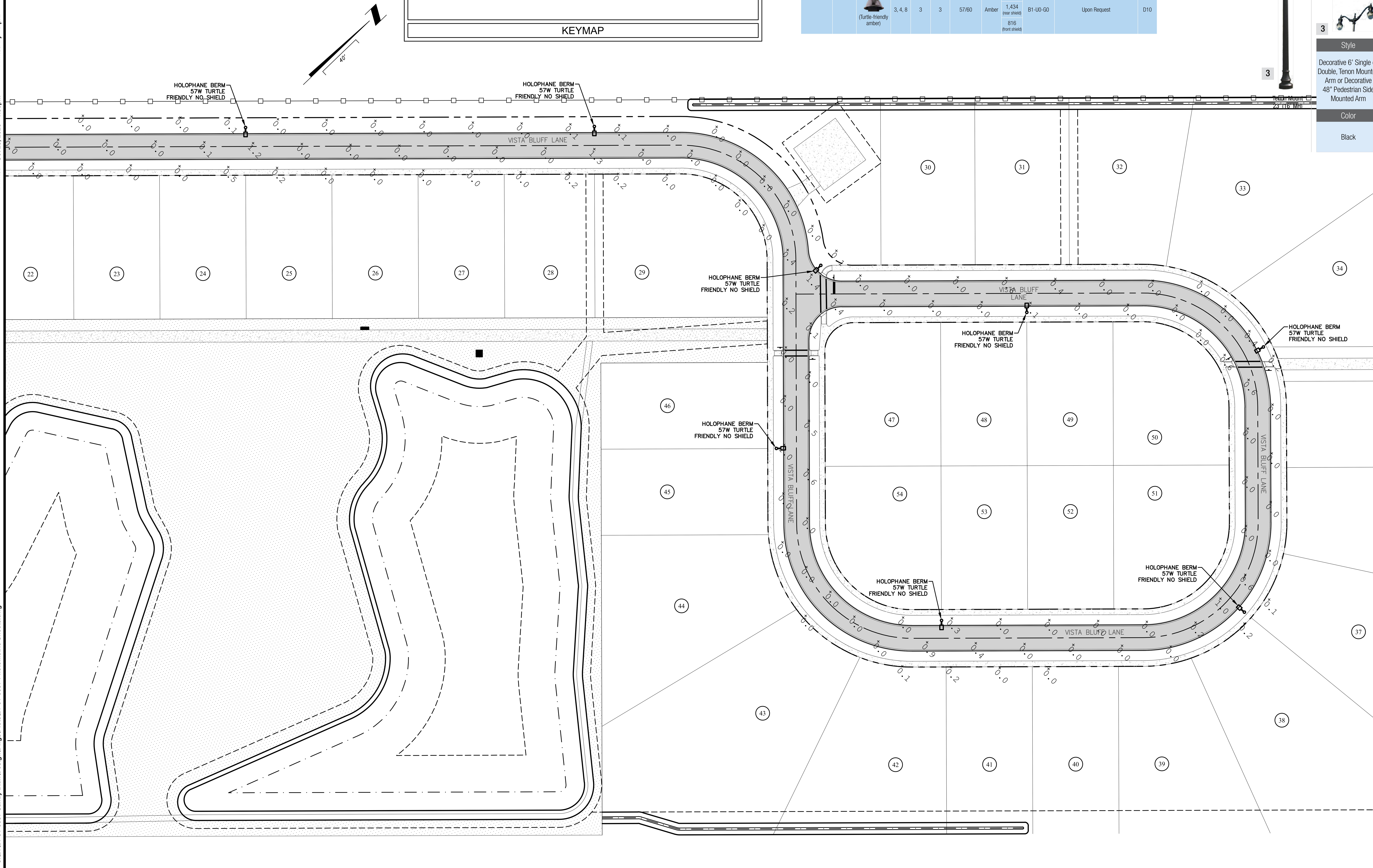
KEYMAP

PENDANT LIGHTING

Manufacturer	Style	Fixture	Pole Options	Bracket Options	Light Pattern	Line Watts/ NEMA Label	Color Temp	Lumens	Glare Rating (BUG)	.ies File	Billing Tier
Holophane	Bern		3, 4, 8	3	3	58/60	4000K	7,609	B1-U0-G1	GBLF3_P30_40K_ASY_BK_RFD327869.ies	D10
		(Turtle-friendly amber)	3, 4, 8	3	3	57/60	Amber	1,995 (no shield) 1,434 (rear shield) 816 (front shield)	B1-U0-G0	Upon Request	D10

Holophane – Bern

Style
Decorative 6' Single or Double, Tenon Mounted Arm or Decorative 48" Pedestrian Side Mounted Arm
Color
Black



PHOTOMETRIC PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

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No.	Date	Revision	By

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MARY E. LEAPTROTT, PE ON THE DATE ADJACENT TO THE SEAL.

MARY E. LEAPTROTT LICENSE No. 61449 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Project No.: 21-01-0057	
Designed: MEL	Drawn: ANB
Date: 10/25/23	Scale: 1"=40'
Sheet 21C	

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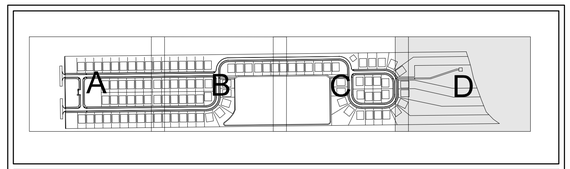
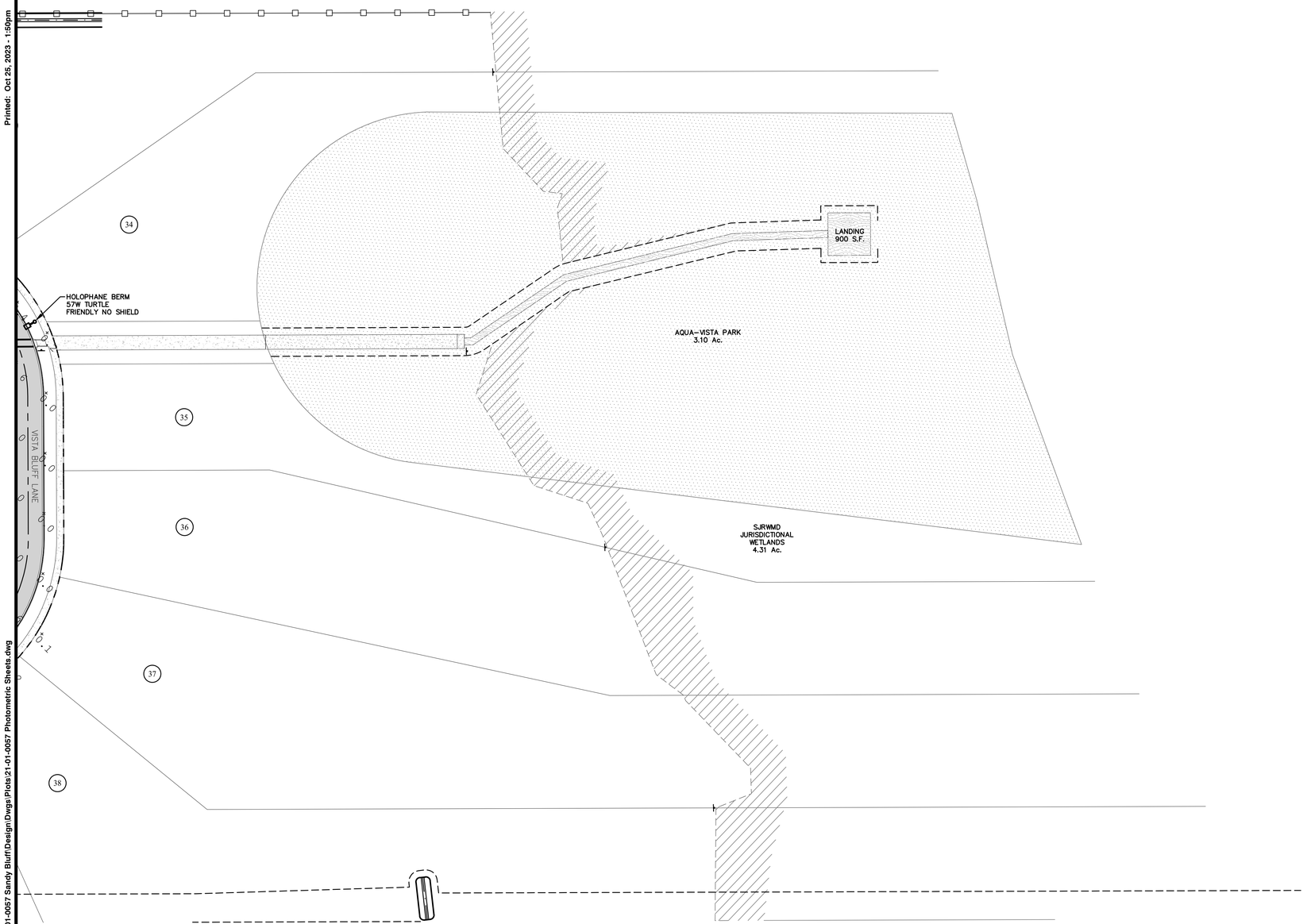
MINIMUM FOOTCANDLES: 0.00

PROPOSED LIGHTING FIXTURE
(24) HOLOPHANE BERM 57W
TURTLE FRIENDLE NO SHIELD
(GBLF2 P10 AMB XX X FC3)

40'



KEYMAP



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Manufacturer	Style	Fixture	Pole Options	Bracket Options	Light Pattern	Line Watts/ NEMA Label	Color Temp	Lumens	Glare Rating (BUG)	.ies File	Billing Tier
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		(Turtle-friendly amber)	3, 4, 8	3	3	57/60	Amber	1,995 (no shield) 1,434 (rear shield) 816 (front shield)	B1-U0-G0	Upon Request	D10

Turtle-friendly amber

Holophane – Bern

Black Washington Concrete

3

Tenon Mount
23' (16' MH)

3

Style

Decorative 6' Single or Double, Tenon Mounted Arm or Decorative 48" Pedestrian Side Mounted Arm

Color

Black

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No.	Date	Revision	By
1			
2			
3			
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6			

PHOTOMETRIC PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

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MARK E. LEAPROTT LICENSE No. 61449 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 21-01-0057
Designed: MEL
Drawn: ANB
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Scale: 1"=40'

Sheet 21D

Printed: Oct 25, 2023 - 1:50pm Printed By: April

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DRAINAGE NOTES:
1. THE PRE-DEVELOPMENT AND POST-DEVELOPMENT STORMWATER MODELING FOR FOURAKER ROAD AND THE EASTERN PORTION OF THIS PROJECT IS INCLUDED IN THE DESIGN AND PERMITTING FOR CAHOON ROAD AND FOURAKER ROAD IMPROVEMENTS SEGMENT 1 (REFER TO SJRWMD PERMIT NO. 40-031-96783-2) BASINS COJPRE-POND2 (COJPST-POND2), ZZ-PRE (ZZ-PST) AND NODE POND2 ARE ALL INCLUDED IN THAT STORMWATER MODELING. THOSE BASINS AND NODE INFORMATION ARE INCLUDED HERE TO DEMONSTRATE COMPLIANCE WITH THE COJ AND SJRWMD CRITERIA FOR PRE VS POST DEVELOPMENT PEAK RATES OF DISCHARGE AND THE COJ RESTRICTED BASIN CRITERIA FOR THE WILLIS BRANCH BASIN (IE: THAT POST DEVELOPMENT DISCHARGE VOLUME NOT EXCEED PRE-DEVELOPMENT DISCHARGE VOLUMES BETWEEN THE HOURS OF 10-17).
2. 100% DESIGN DRAWINGS AND CALCULATIONS TAKEN FROM THE SJRWMD WEBSITE FOR PERMIT NO. 40-031-96783-2. (PLANS AND CALCULATIONS DATED 8-3-06)
2. HYDRAULIC DESIGN DATA FOR STORM SEWER TABULATIONS CONNECTING TO POND2 TAKEN FROM STORM SEWER TABULATION CONTAINED IN THE CALCULATIONS REFERENCED ABOVE.

EG 36.10

Tc Path
Overland Sheet Flow
100 LF
Slope = 1.10%

EG 35.80

Tc Path
Overland Sheet Flow
100 LF
Slope = 0.47%

PRE A
11.29 Ac.
CN = 79.4
TC = 43.25

Tc Path
Concentrated Flow
755 LF
Slope = 1.00%

PRE B
37.60 Ac.
CN = 54.4
TC = 54.82

Tc Path
Concentrated Flow
2268 LF
Slope = 0.90%

LEGEND		
SOIL NUMBER	SOIL NAME	HYDROLOGIC GROUP
6	HURRICANE-POTTSBURG FINE SAND	A
9	LEON FINE SAND	A/D
20	ORTEGA FINE SAND	A

SOILS INFORMATION TAKEN FROM CUSTOM SOIL RESOURCE REPORT FOR DUVAL COUNTY, FLORIDA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE WEBSITE AND DOWNLOADED MARCH 27, 2017.

LEGEND
- SJRWMD JURISDICTIONAL WETLANDS
- NATURAL / VEGETATIVE UPLAND BUFFER
- SOIL DIVIDE LINE
- PRE DRAINAGE DIVIDE LINE
- POST DRAINAGE DIVIDE LINE
- EXISTING CONTOUR
- 3 SOIL NUMBER
- DRAIN FLOW

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PRE-DEVELOPMENT DRAINAGE PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

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MARK E. LEAPHART LICENSE No. 61449 STATE OF FLORIDA PROFESSIONAL ENGINEER

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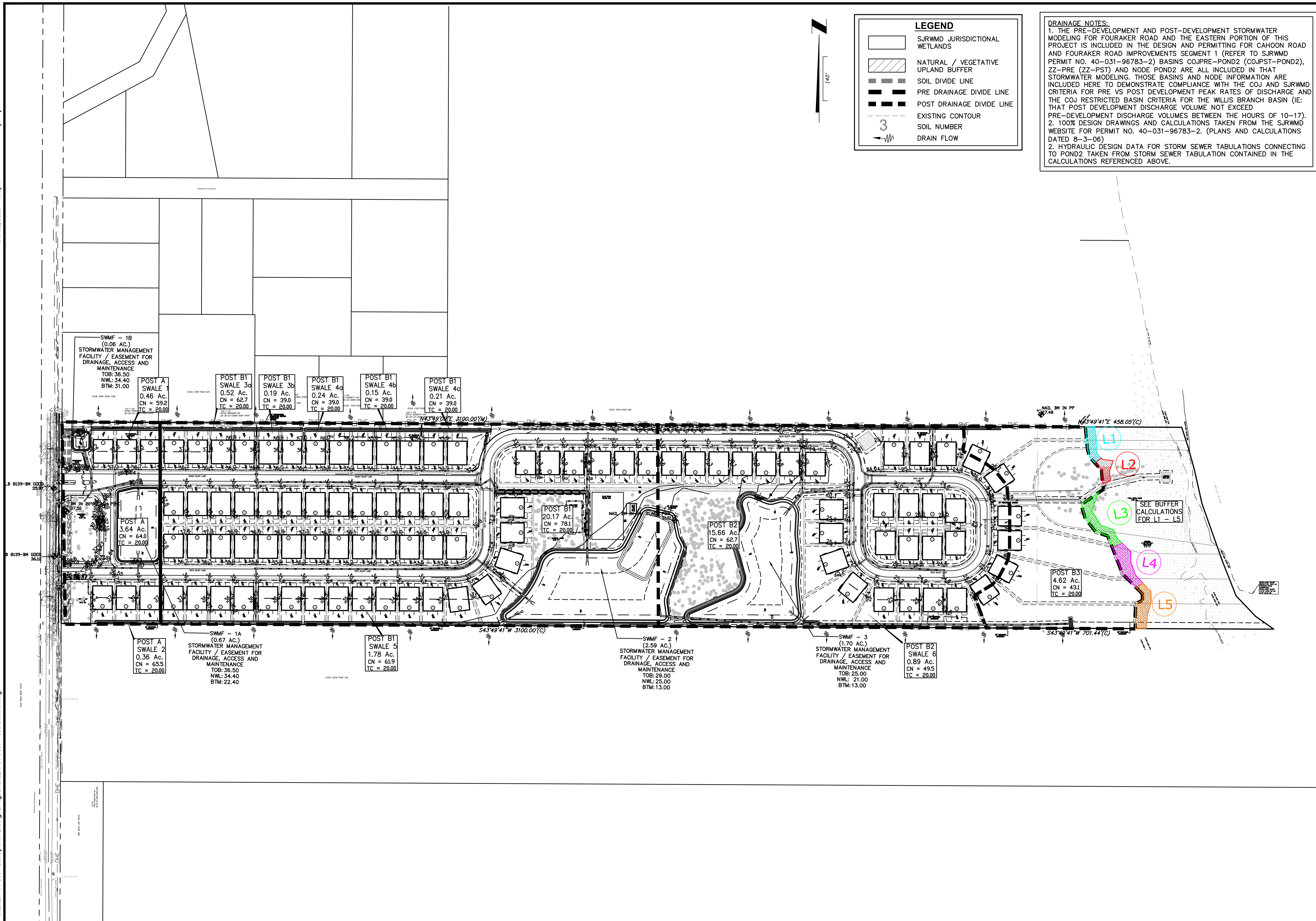

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No.	Date	Revision	By

POST DEVELOPMENT DRAINAGE PLAN

SANDY BLUFF SUBDIVISION

PREPARED FOR
SANDY BLUFF DEVELOPMENT INC

MARY E. LEAPTROT LICENSE No. 61449 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project No.: 21-01-0057	
Designed: MEL	Drawn: ANB
Date: 10/25/23	Scale: 1"=140'
Sheet	POST