



SAMOSET AREA INTERSECTION IMPROVEMENTS COVER SHEET

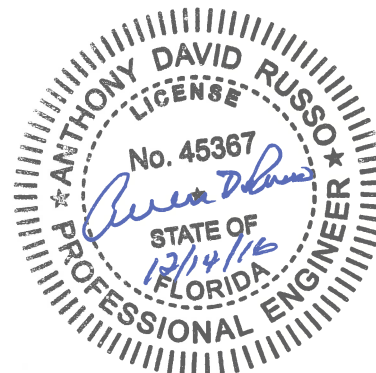
CONSTRUCTION PLANS



DATE							
BY							
REVISION DESCRIPTION							
NO.							
PROJECT #		CIP 9012220					
SURVEY #		000					
SEC./TWN./RGE		06/35S/18E					
SCALE		N.T.S.					
	BY	DATE					
SURVEYED	N/A	N/A					
DESIGNED	GB	07/2016					
DRAWN	GB/JEA	07/2016					
CHECKED	CM/GB	07/2016					
ANTHONY D. RUSSO, P.E.							
FLORIDA P.E. # 45367							
Signature & Date							
SHEET 1							

SAMOSET AREA
INTERSECTION IMPROVEMENTS
QUANTITY SHEET

SAMOSET INTERSECTION IMPROVEMENTS				
LINE NO.	FDOT ITEM NO.	DESCRIPTION	EST. QTY	U/M
1.	101-1	MOBILIZATION	1	LS
2.	102-1	MAINTENANCE OF TRAFFIC	1	LS
3.	104-10-3	Erosion Control	1	LS
4.	110-7-1	MAILBOX, F&I SINGLE (field directed)	10	EA
5.	120-1	REGULAR EXCAVATION (field directed)	100	CY
6.	120-6	EMBANKMENT (REGULAR) (field directed)	100	CY
7.	MC	Crushed Concrete Base (field directed)	100	TN
8.	285-710	6.5" ABC-3 BASE COURSE (field directed)	50	SY
9.	337-MC	TYPE S-III ASPHALT CONCRETE 1" (INCL TACK COAT) (field directed)	60	TN
10.	425	Type 1 Inlet Repair	2	LS
11.	425	Type 2 Inlet Repair	7	LS
12.	425	Type 3 Inlet Repair	6	LS
13.	425	Type 4 Inlet Repair	4	LS
14.	425	Type 5 Inlet Repair	2	LS
15.	425	Type 6 Inlet Repair	4	LS
16.	425	Type 7 Inlet Repair	1	LS
17.	430-174-112	PIPE STORM SEWER CULV (RCP) (12")	80	LF
18.	430-174-115	PIPE STORM SEWER CULV (RCP) (15")	64	LF
19.	430-174-118	PIPE STORM SEWER CULV (RCP) (18")	80	LF
20.	430-174-136	PIPE STORM SEWER CULV (RCP) (36")	16	LF
21.	430-174-215	PIPE STORM SEWER CULV (ERCP) (12"X18")	336	LF
22.	430-174-218	PIPE STORM SEWER CULV (ERCP) (14"X23")	96	LF
23.	MC	Endwall 12" (field directed)	5	EA
24.	MC	Endwall 15" (field directed)	4	EA
25.	MC	Endwall 18" (field directed)	5	EA
26.	430-984-138	MITERED END SECTION-RCP- ROUND, 36" SD (field directed)	1	EA
27.	MC	Endwall 12"x18" (field directed)	21	EA
28.	MC	Endwall 14"x23" (field directed)	6	EA
29.	522-1	SIDEWALK CONCRETE 4" (field directed)	200	SY
30.	522-1	SIDEWALK CONCRETE 6" (field directed)	80	SY
31.	522-1	Miscellaneous Concrete 3,000psi (field directed)	10	CY
32.	527-2	DETECTABLE WARNINGS (field directed)	90	SF
33.	530-3-4	RIP RAP-RUBBLE (field directed)	10	TN
34.	550-MC	EXISTING FENCE TO BE REMOVED AND RELOCATED (field directed)	100	LF
35.	550-MC	4' Chain Link Fence including end and intermediate posts (field directed)	200	LF
36.	570-1-2	PERFORMANCE TURF (BAHIA SOD)	1,000	SY
37.	700-1-50	SINGLE POST SIG, RELOCATE (field directed)	16	AS
38.	711-11-125	THERMOPLASTIC, STANDARD, WHITE SOLID, 12" (field directed)	1,000	LF
39.	711-11-125	THERMOPLASTIC, STANDARD, WHITE SOLID, 24" (field directed)	600	LF
40.	MC	Valve Box Adjustment (field directed)	15	LS
41.	ASTM	Modified Proctor	5	EA
42.	ACI	Field Density Test	44	EA
43.	ACI	Plastic Properties Tests (Slump, Air, Temp)	44	EA
44.	ACI	Compressive Strength Cylinders set of 5	44	EA
45.	ACI	Compressive Strength Testing	44	EA



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FLORIDA P.E. # 45367			
Signature & Date			
SHEET 2			

S:\PWD_Engineering_Shore\Highway Engineering\INTERSECTION STUDIES AND IMPROVEMENTS\20 inters\32_34_36\DWG\32_34_36_Cov-Gn.dwg,GNL Util, 12/14/2016 7:08 AM Ken Loster, 1:1, 11x17

SAFETY

11. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
12. THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
13. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

14. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FDEP EROSION MANUAL. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON CONCLUSION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.
15. WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
16. ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL. THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
17. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
18. STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
19. STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.

- RIGHT-OF-WAY

29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING

30. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.

- ## UTILITIES

- LOCATES

- ## RESTORATION

- ## CONSTRUCTION

- MANATEE COUNTY
PUBLIC WORKS DEPT.
INFRASTRUCTURE ENGINEERING
SCOTT MAY, P.E.
1022 26TH AVENUE EAST
BRADENTON, FL. 34208
(941) 708-7450 EXT. 7650
FAX: (941) 708-7431

TECO/PEOPLES GAS CO.
DAN SHANAHAN
8261 VICO COURT
SARASOTA, FL. 34240
(941) 342-4030
FAX: (941) 342-4011
EMERGENCY: 1-877-833-3333
djshanahan@tecoenergy.com

SUNSHINE STATE ONE CALL OR
FLORIDA
1-(800) 432-4770

FRONTIER
WAYNE SUMNER
1701 RINGLING BLVD.
SARASOTA, FL. 34236
(941) 330-9203
WAYNE.SUMNER@ftr.com

FLORIDA POWER & LIGHT
DISTRIBUTION
GREG COKER
1253 12TH AVENUE EAST
PALMETTO, FL 34221
(941) 723-4430
FAX: (941) 723-4444
EMERGENCY: 1-800-4-OUTAGE
Greg_Coker@fpl.com

FLORIDA POWER & LIGHT
TRANSMISSION
GARY PETERSON
15430 ENDEAVOR DRIVE
JUPITER, FL. 33478
(561) 904-3665
Gary.n.peterson@fpl.com

MANATEE COUNTY HEALTH DEPT.
HANS C. ROESE
410 6th AVENUE EAST
BRADENTON, FL. 34208
(941) 748-0747 EXT. 1342
FAX: (941) 750-9364
hans_roese@doh.state.fl.us

SOUTHWEST FLORIDA WATER
MANAGEMENT DISTRICT
SARASOTA SERVICE OFFICE
STEVE LOPES, P.E.
6750 FRUITVILLE ROAD
SARASOTA, FL. 34240
(941) 377-3722
FAX: (941) 373-7660

FLORIDA GAS TRANSMISSION
SAFETY HARBOR TEAM
7804 ANDERSON RD.
TAMPA, FL. 33634
CHRIS LEE
(813) 466-3327
CELL : (727) 639-7512
christopher.lee@sug.com

CHARTER COMMUNICATIONS
TOM WRIGHT
5413 E. STATE ROAD 64
BRADENTON, FL. 34208-5535
(941) 748-3816 EXT. 21348
tom.wright@charter.com

DEPARTMENT OF ENVIRONMENTAL
PROTECTION
ED WATSON
13051 N. TELECOM PKWY
TEMPLE TERRACE, FL 33637
PHONE: (813) 470-5875
FAX: (813) 470-5993

PEACE RIVER ELECTRIC
COOPERATIVE, INC.
P.O. BOX 1310
WACHULA, FL 33873
ERIN RUHTZ
(863) 767-4660
erin.ruhtz@preco.coop

MANATEE COUNTY
PUBLIC WORK DEPT.
TRAFFIC ENGINEERING
VISHAL KAKKAD, P.E.
(941) 749-3500 EXT. 7812
FAX: (941) 749-3571













EXISTING

BENCH MARK
 CONCRETE MONUMENT
 IRON PIPE
 IRON ROD
 HUB
 NAIL & DISK
 ELEVATION
 PARCEL ID NO.
 PARCEL ID NO.
 LOT NO.
 GLY WIRE
 POWER POLE
 LIGHT POLE
 MAIL BOX
 SIGN
 REFLECTOR
 SPRINKLER
 GAS MARKER
 BACKFLOW PREVENTER
 LOW OFF VALVE
 FIRE HYDRANT
 WATER VALVE
 AIR RELEASE VALVE
 WATER METER
 SANITARY SEWER MANHOLE
 SANITARY SEWER CLEAN OUT
 SOIL BORING LOCATION
 TELEPHONE SERVICE BOX
 FLOW DIRECTION
 GRATE INLET
 MITERED END SECTION

BUSH
 TREE
 OAK TREE
 PALM TREE
 PINE TREE
 EDGE OF VEGETATION
 CHAIN LINK FENCE
 WOOD FENCE
 BARBED WIRE FENCE
 TV
 FORCE MAIN
 POTABLE WATER
 RECLAIMED WATER
 SS
 SD
 GAS
 OVERHEAD_CHARTER_TV
 BURIED_CHARTER_TV
 OE
 BURIED_ELECTRIC
 OFFR
 FRFR
 FRFR
 BU
 OU
 RAIL ROAD TRACKS
 EDGE OF CONCRETE
 EDGE OF ROAD
 TOE OF SLOPE
 TOP OF BANK
 PROPERTY LINE
 RIGHT OF WAY

R/W	RIGHT OF WAY
CONC	CONCRETE
ASPH	ASPHALT
DRWY	DRIVEWAY
SWK	SIDEWALK
EP	EDGE OF PAVEMENT
BOC	BACK OF CURB

PROPOSED

- MAIN
- SERVICE LINE
- PROPOSED EASEMENT
-  FIRE HYDRANT
-  VALVE
-  SANITARY SEWER MANHOLE
-  BLOW OFF ASSEMBLY
-  REDUCER
-  TEE
-  HORIZONTAL BEND
-  VERTICAL BEND
-  PLUG
-  MASTER METER ASSEMBLY
-  SERVICE LINE & METER
-  DOUBLE SERVICE



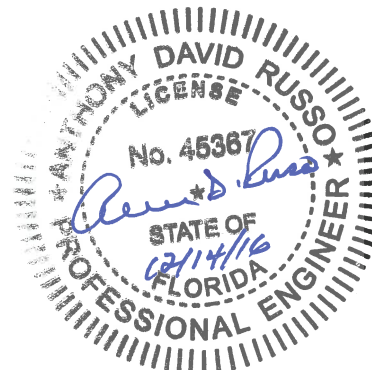
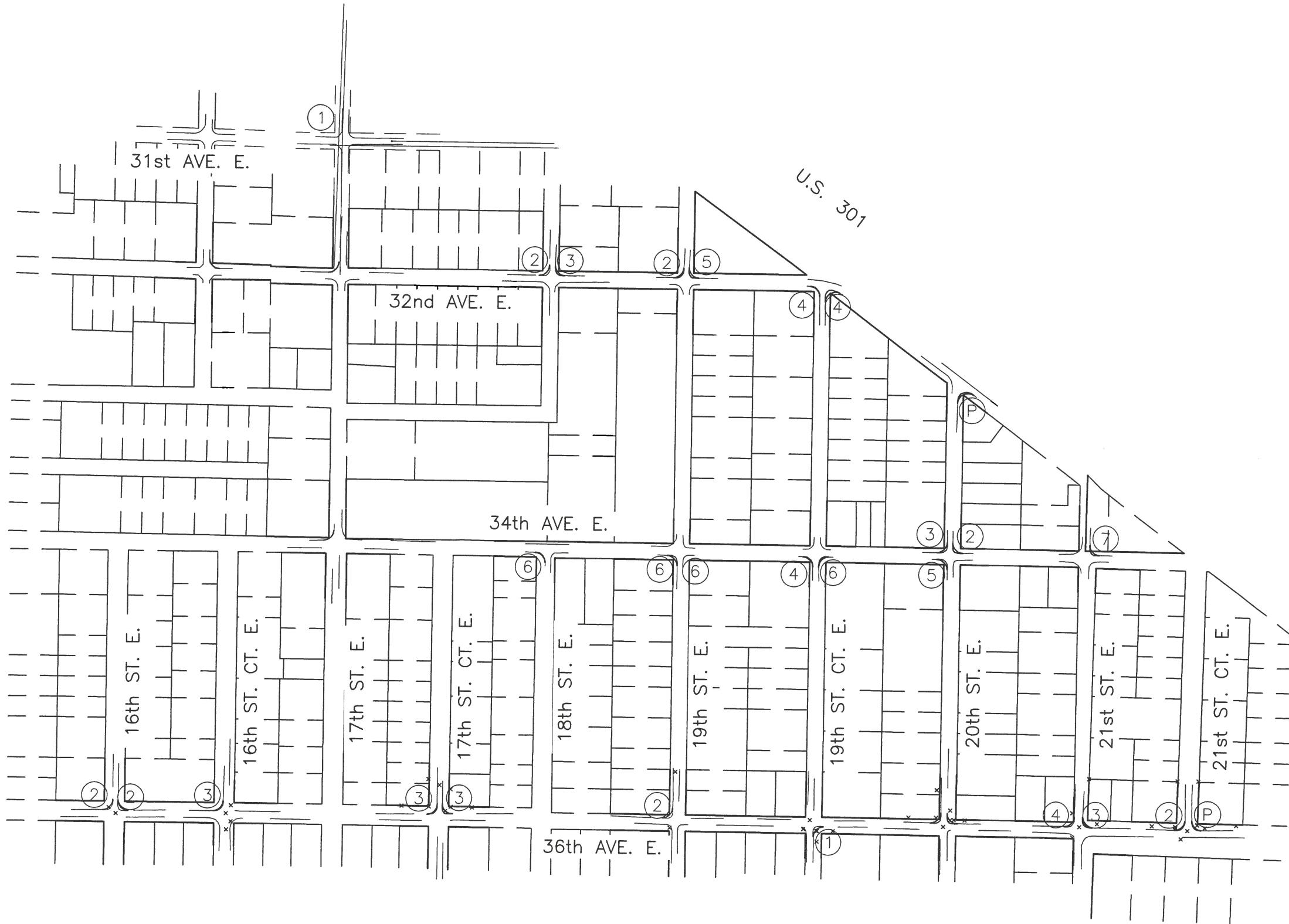
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ANTHONY D. RUSSO, P.E.			
FLORIDA P.E. # 45367			
Signature & Date			
SHEET 3			

SAMOSET AREA INTERSECTION IMPROVEMENTS REPAIR LOCATION MAP

① - REPAIR TYPE (SEE DETAIL SHEET)
 (P) - PAVEMENT REPAIR ONLY

NOTE:

NUMBER REPAIR TYPES ARE LUMP SUM INCLUDING EXCAVATION, DEMOLITION, PAVEMENT CUTTING, CONCRETE, FILL, SUB GRADE, BASE, ASPHALT, AND SODDING ALL DISTURBED AREAS, FOR ALL WORK SHOWN IN THE DETAILS AND FOR COMPLETE ASSEMBLY, EXCEPT PIPES AND END WALLS ARE UNIT PRICE AT QUANTITIES AS DIRECTED BY THE PROJECT ENGINEER BASED ON FIELD CONDITIONS.



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ANTHONY D. RUSSO, P.E.			
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Signature & Date			
SHEET 4			



UPSTREAM PIPE:
18" RCP
INV. EL=31.04

APPROX. SWALE CL (TYP.)

UPSTREAM PIPE:
12"x18" ERCP
INV. EL=30.77

APPROX. EP (TYP.)

1.25" FRONTIER FO CONDUIT

APPROX. ROW

19th ST. E.

APPROX. ROW

INSTALL 8/16 L.F.
12" x 18" ERCP
@0.24%

INSTALL 8/16 L.F.
12" x 18" ERCP
@0.20%

UPSTREAM PIPE:
12" RCP
INV. EL=31.44

APPROX. ROW

(1) 1.25" FIBER OPTICS CONDUIT
(1) 2" FIBER OPTICS CONDUIT

EXIST. FENCE

EXIST. PIPE: 12" RCP
INV. EL =30.73

APPROX. ROW

APPROX. EP (TYP.)

32nd AVE. E.

PROP. EOP (TYP.)

INSTALL 8/16 L.F. 12" x 18" ERCP
@0.50%

1.25" FRONTIER FO CONDUIT

APPROX. ROW

BENCHMARK
EL=32.64
BM "MAG NAIL"
N=1140846.534
E=480607.540

HORIZ. SCALE



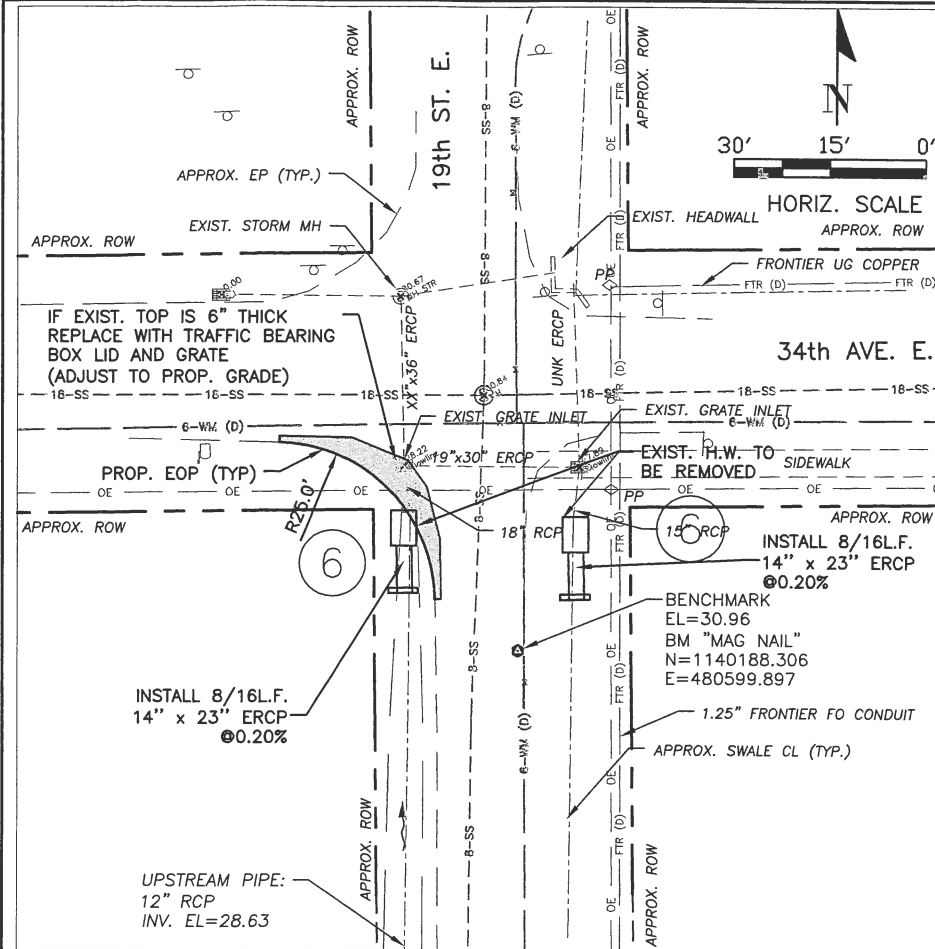
**Manatee
County**
FLORIDA

**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**

1022 26th Avenue East, Bradenton, FL 34208

SAMOSET AREA INTERSECTION IMPROVEMENTS PLAN VIEW

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GENERAL NOTES

1. ALL REFERENCED STANDARDS SHALL BE LATEST REVISION.
2. CONCRETE SHALL BE CLASS "1" AS SPECIFIED IN SECTION 345 OF F.D.O.T. SPECIFICATIONS.
3. SEE SECTION 425-2.2 "MORTAR" OF FLORIDA D.O.T. SPECIFICATIONS.
4. IRON CASTING SHALL BE AS SPECIFIED IN SECTION 962-8 OF F.D.O.T. SPECIFICATIONS. SEE SECTION 425-5.
5. ALL REINFORCEMENT STEEL SHALL BE AS SPECIFIED IN SECTIONS 415 & 931.1 OF F.D.O.T. SPECIFICATIONS.
6. SEE FLORIDA D.O.T. SPECIFICATIONS FOR GRATINGS.
7. SEE FLORIDA D.O.T. SPECIFICATIONS FOR SECTION 125 "EXCAVATION FOR STRUCTURES."
8. PRECAST TOP AND BOTTOM TO BE F.D.O.T. STANDARDS WITH MINIMUM TRAFFIC BEARING 8" THICKNESS.
9. ALL STORMWATER PIPE SHALL BE INSTALLED BEHIND THE CURB OR EDGE OF PAVEMENT AND WITHIN THE RIGHT OF WAY AND WITHIN THE DRAINAGE EASEMENTS.
10. THE FOLLOWING IS THE DRAINAGE STRUCTURE WALL MINIMUM THICKNESS:

PRECAST BLOCK
NON-TRAFFIC 6" 8" EITHER WAY

NOTE: FOR DRAINAGE STRUCTURES WITH PIPE DIAMETERS UP TO AND INCLUDING 24".
6" PRECAST WALLS ARE ACCEPTABLE FOR TRAFFIC BEARING.

		DIMENSION INDEX							
PIPE SIZE	TYPE	"C"	"D"	"E"	"F"	"G"	"H"		
15"	RCP	2'8"	4'	5'	4'	5'4"	6'4"		
12"x18"	RCP	"	"	"	"	"	"		
18"	RCP	"	"	"	"	"	"		
14"x23"	RCP	"	"	"	"	"	"		
24"	RCP	3'4"	4'8"	5'8"	"	"	"		
19"x30"	RCP	4'	5'4"	6'4"	"	"	"		
30"	RCP	"	"	"	"	"	"		
24"x38"	RCP	5'	6'4"	7'4"	"	"	"		
36"	RCP	5'	6'4"	"	"	"	"		
66"	RCP	8'5"	9'9"	10'9"	4'8"	6'0"	7'0"		

MANATEE COUNTY
FLORIDA

DRAINAGE
CONTROL SHEET

202.0

MANATEE COUNTY
FLORIDA

TYPICAL CONC.
BLOCK BOX

202.1

MANATEE COUNTY
FLORIDA

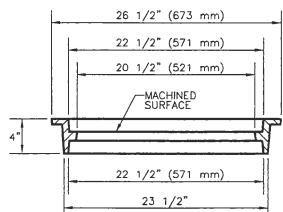
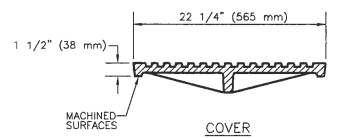
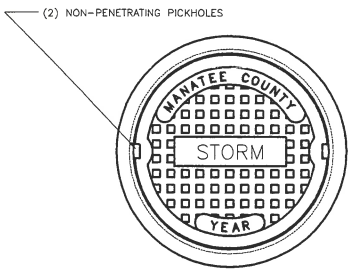
THROAT DETAIL
FOR DROP INLET

202.3

MANATEE COUNTY
FLORIDA

TRAFFIC BEARING
BOX LID

202.5



USF 1110 RING & PROPOSED COVER

- NOTE:
- 1 - MATERIAL: ASTM-A48 CLASS 30B GRAY IRON.
 - 2 - COVER WEIGHT: 105 LBS. APPROX.
 - 3 - RING WEIGHT: 90 LBS. APPROX.

MANATEE COUNTY
FLORIDA

ACCESS COVER
FOR STORMWATER
JUNCTION BOX
(PUBLIC)

203.1

MANATEE COUNTY
FLORIDA

SIDEWALKS
GENERAL NOTES

301.0

MANATEE COUNTY
FLORIDA

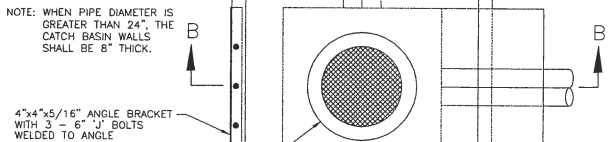
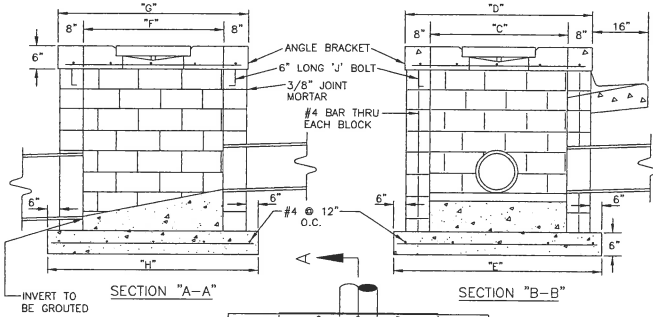
HANDICAPPED
RAMP SHEET 1

302.1

MANATEE COUNTY
FLORIDA

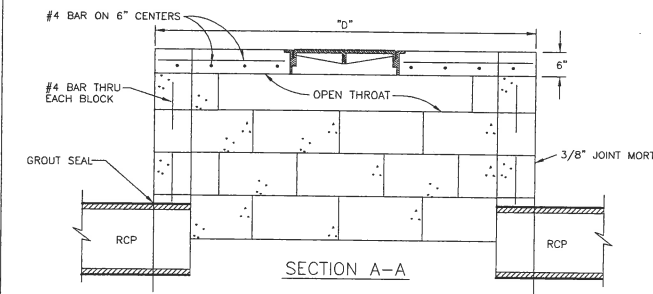
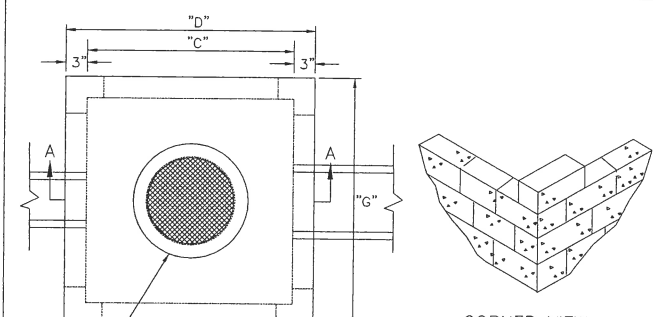
CURB RAMP
DETECTABLE
WARNINGS

302.5



NOTE: DIMENSIONS PER SECTION 202.0

- A) THE FOLLOWING MATERIALS TO BE AS SPECIFIED IN THE FLORIDA D.O.T. SPEC'S, 1991, SECTION 346 CONCRETE, SECT. 962-8 IRON CASTING, SECT. 931-1 REINFORCEMENT STEEL, SECT. 425 INLETS, MANHOLES & JUNCTION BOXES.
- B) FILL BLOCKS WITH 3,000 psi CONCRETE, USE #4 ROD IN EACH BLOCK, 16" O/C.
- C) 2" MINIMUM COVER ON ALL REBAR.
- D) USE #4 REBARS ON 6" CENTERS BOTH WAYS ON LID; NO.4 REBARS ON 12" CENTERS BOTH WAYS ON FLOOR SLAB.
- E) SEE SHEET 202.0 FOR GENERAL NOTES AND DIMENSION INDEX.
- F) ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".
- G) PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS (2000) ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE TRANSPORTATION DIRECTOR OR HIS DESIGNEE.
- H) ALL PIPE ENTRIES TO CATCH BASIN TO BE GROUTED AND SEALED.

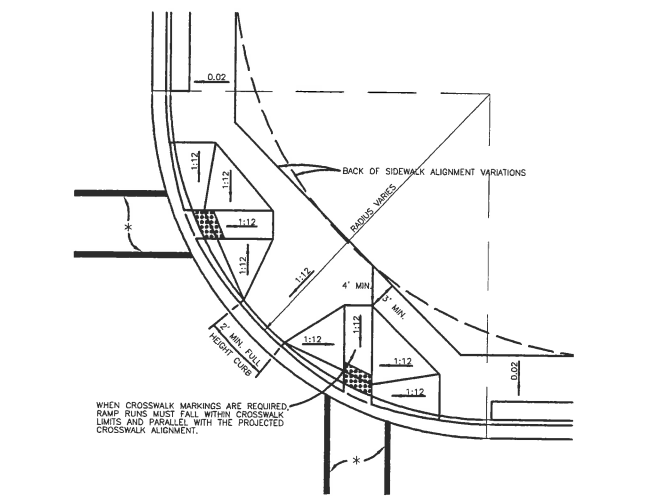


- A) DROP INLET IS NOT DESIGNED TO BE SUBJECTED TO VEHICULAR TRAFFIC.
- B) NUMBER OF SIDES OPEN FOR DRAINAGE DEPENDS UPON FLOW VOLUME REQUIREMENTS.
- C) THE FOLLOWING MATERIALS SHALL BE AS SPECIFIED IN FLORIDA D.O.T. SPEC'S, 2000, SEC 346 CONCRETE, SEC 962-8 IRON CASTING, SEC 931-1 REINFORCED STEEL.
- D) FILL BLOCKS WITH 3,000 P.S.I. CONCRETE (EACH CELL), USE #4 ROD IN EACH BLOCK, 16" O/C.
- E) USE #4 ROD ON 6" CENTERS BOTH WAYS ON LID.
- F) SEE SHEET # 202.0 GENERAL NOTES AND DIMENSIONS INDEX, ALSO SHEET 202.1 TYP. CONC. BOX.
- G) PRECAST BOXES TO F.D.O.T. SPECIFICATIONS ARE AN ACCEPTABLE ALTERNATE.
- H) INVERT TO BE GROUTED (SEE 202.1).
- I) PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE TRANSPORTATION DIRECTOR OR HIS DESIGNEE.
- J) ANGLE BRACKETS SHOWN ON 202.1 NOT REQUIRED.

MANATEE COUNTY
FLORIDA

THROAT DETAIL
FOR DROP INLET

202.3



* CROSSWALK WIDTHS AND CONFIGURATION VARY; MUST CONFORM TO FOOT INDEX NO. 17344 AND 17346.

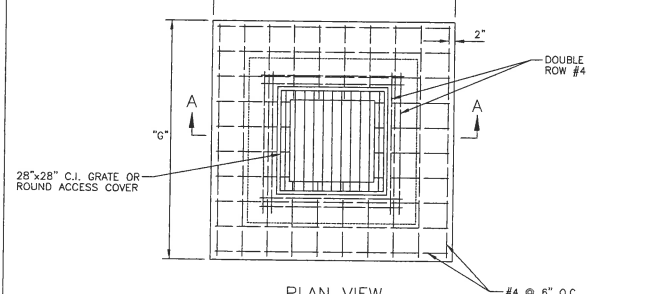
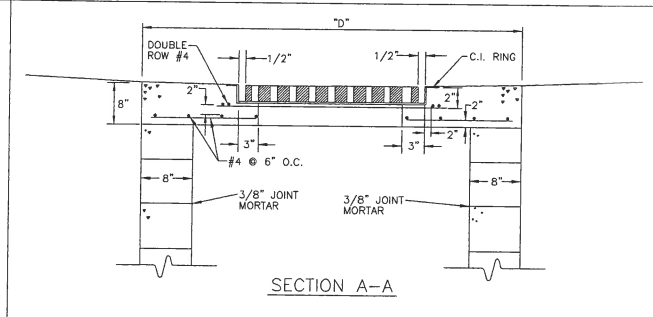
- 1) CURB CUT RAMPS ARE TO BE LOCATED AS SHOWN ON PLANS.
- 2) SEE SHEETS # 300.1 "GENERAL NOTES" & # 301.2 "HANDICAPPED RAMP" SHT 2 FOR FURTHER REQUIREMENTS.
- 3) RADIUS OF CURB VARIES AS FOLLOWS:
 - A) 25' RAD. LOCAL STREET WITH ALLEY.
 - B) 25' RAD. LOCAL STREET WITH LOCAL STREET.
 - C) 35' RAD. LOCAL STREET WITH THOROUGHFARE OR COLLECTOR.
 - D) 50' RAD. THOROUGHFARE WITH THOROUGHFARE
- 4) CURB RADIUS SHOULD BE A MINIMUM OF 50' WHERE INDUSTRIAL AND BUS TRAFFIC (5% OR MORE) IS ANTICIPATED ON LOWER CLASSIFICATION ROADWAYS.
- 5) BOTH LOCATION OPTIONS FOR HANDICAPPED RAMP ARE SHOWN. ENGINEER MAY SELECT EITHER, WHICHEVER FITS THE SITUATION.

NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

MANATEE COUNTY
FLORIDA

HANDICAPPED
RAMP SHEET 1

302.1

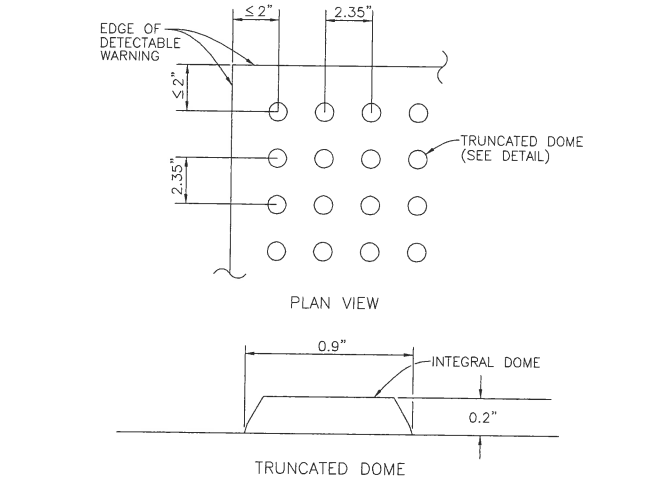


- NOTE: DIMENSIONS "D" & "G" PER SECTION 202.0
- A) ALTERNATE C.I. GRATES, 18"x 24", 24"x 24", 28"x 36" OR ACCESS COVER (202.6).
- B) 8" TRAFFIC BEARING LID W/ REINFORCING C.I. RING & DOUBLE ROW OF #4 REBAR.
- C) FOLLOWING MATERIALS ARE SPECIFIED IN FLORIDA D.O.T. SPEC'S, 2000, SEC 346 CONCRETE, SEC 962-8 IRON CASTING, SEC 931-1 REINFORCED STEEL.
- D) FILL BLOCKS WITH 3,000 P.S.I. CONCRETE (EACH CELL), USE #4 ROD IN EACH BLOCK, 16" O/C.
- E) USE #4 ROD ON 6" CENTERS BOTH WAYS ON LID. (SEE 202.3 E)
- F) SEE SHEET # 202.0 GENERAL NOTES AND DIMENSIONS INDEX, ALSO SHEET 202.1 TYP. CONC. BOX.
- G) INVERT TO BE GROUTED (SEE 202.1).
- H) PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE TRANSPORTATION DIRECTOR OR HIS DESIGNEE.
- I) ANGLE BRACKETS SHOWN ON 202.1 NOT REQUIRED.

MANATEE COUNTY
FLORIDA

TRAFFIC BEARING
BOX LID

202.5



CURB RAMP DETECTABLE WARNING DETAIL

- NOTES:
- DETECTABLE WARNINGS ON WALKING SURFACES**
- THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.
- DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
- THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
- THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%.
- CONTRAST IN PERCENT IS DETERMINED BY:
 $CONTRAST = [(B1 - B2) / B1] \times 100$
- WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.
- NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THEY NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

PROJECT # CIP 9012220
SURVEY # ---
SEC./TWN./RGE ---
SCALE N.T.S.
BY DATE
DESIGNED N/A N/A
DRAWN GB 07/2016
CHECKED GB 07/2016
ANTHONY B. RUSSO, P.E.
FLORIDA ENGINEER # 45367
Signature & Date

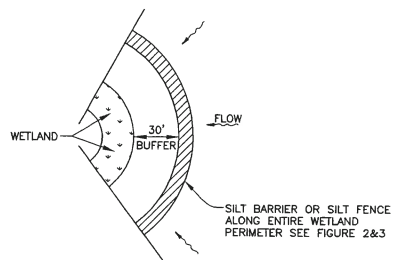
NO.	DATE	BY	REVISION DESCRIPTION

STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/14/16
No. 45367

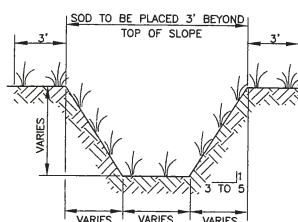
Signature & Date

SHEET 10

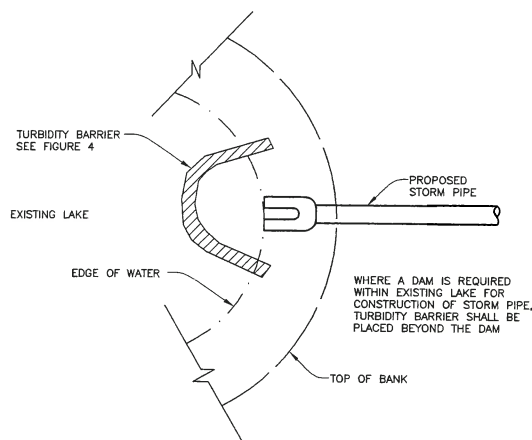
SAMOSET AREA
INTERSECTION IMPROVEMENTS
EROSION CONTROL



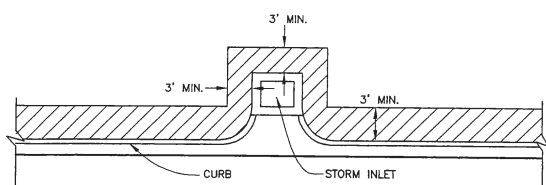
WETLAND BUFFER
FIGURE 1



TYPICAL SWALE SECTION
FIGURE 5

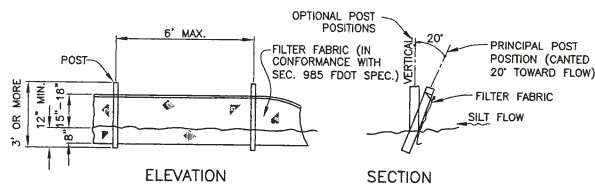


TURBIDITY BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING LAKE
FIGURE 9



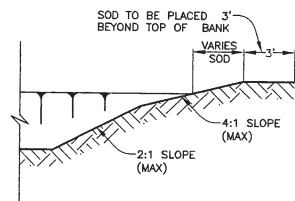
SOD ALONG CURB
AND AROUND INLET
FIGURE 14

NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.

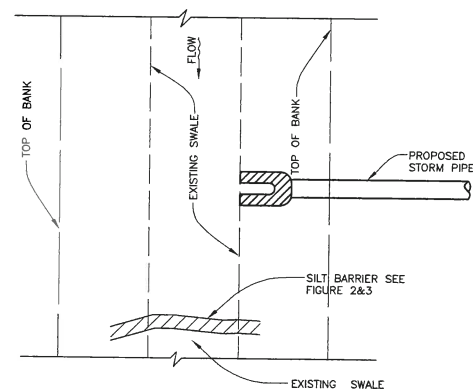


NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

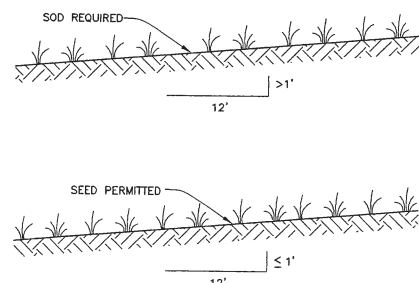
TYPICAL SILT FENCE
FIGURE 2



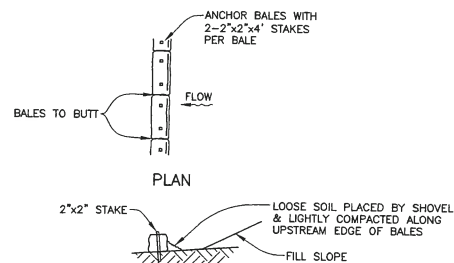
TYPICAL RETENTION/DETENTION POND SECTION
FIGURE 6



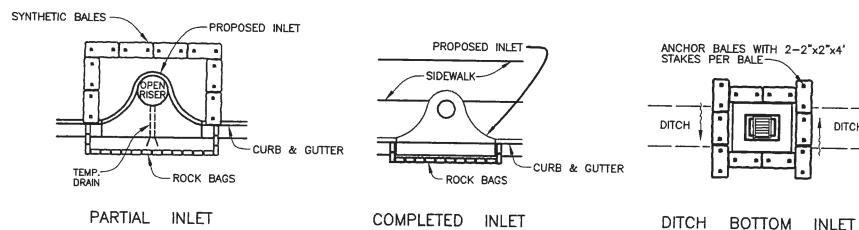
SILT BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING SWALE
FIGURE 10



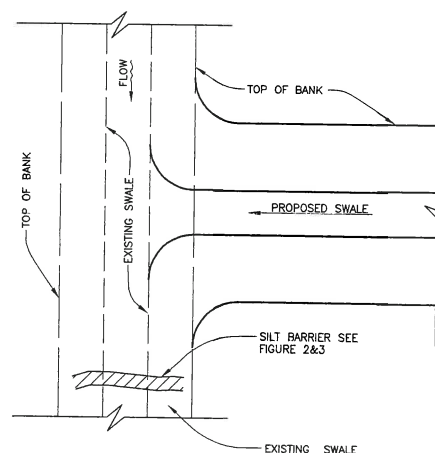
GRASS SLOPES
FIGURE 13



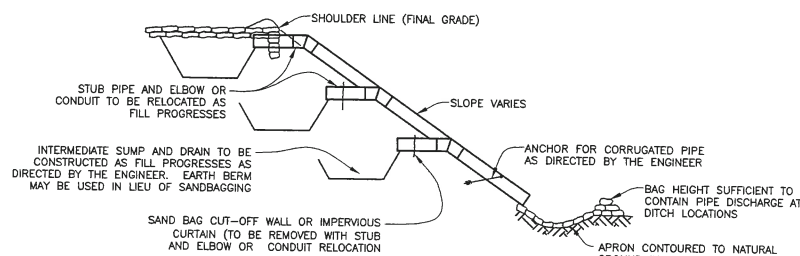
TYPICAL BALE SILT BARRIER
FIGURE 3



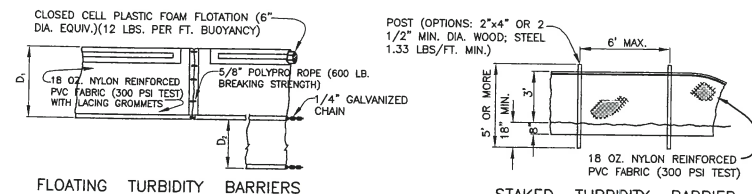
SYNTHETIC BALE PROTECTION AROUND
INLETS OR SIMILAR STRUCTURES
FIGURE 7



SILT BARRIER AT CONNECTION
OF SWALE TO EXISTING SWALE
FIGURE 11



SECTION AA
TEMPORARY SLOPE DRAIN
FIGURE 15

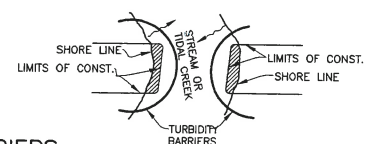


FLOATING TURBIDITY BARRIERS

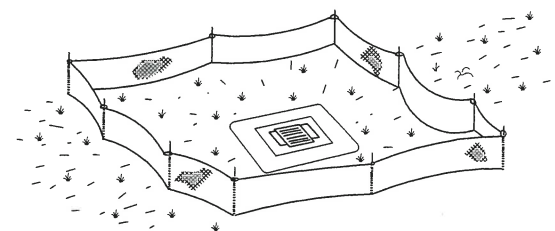
D₁ = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS). D₂ = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

STAKED TURBIDITY BARRIER

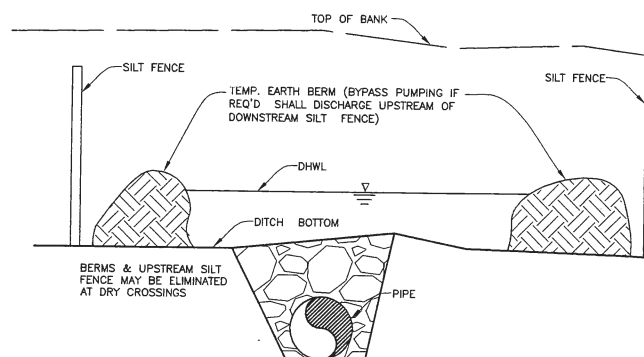


TURBIDITY BARRIERS
FIGURE 4

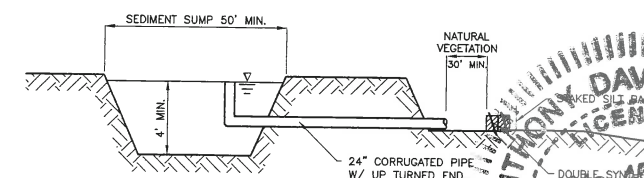


TYPE III SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS

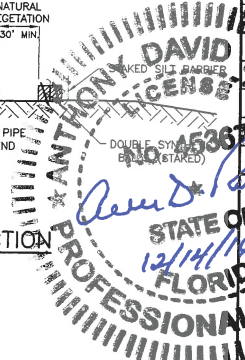
STAKED SILT BARRIER OR SILT FENCE
PROTECTION AROUND DITCH BOTTOM INLETS
FIGURE 8



UNDERGROUND PIPE CROSSING
FIGURE 12



SEDIMENT SUMP SECTION
FIGURE 16



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