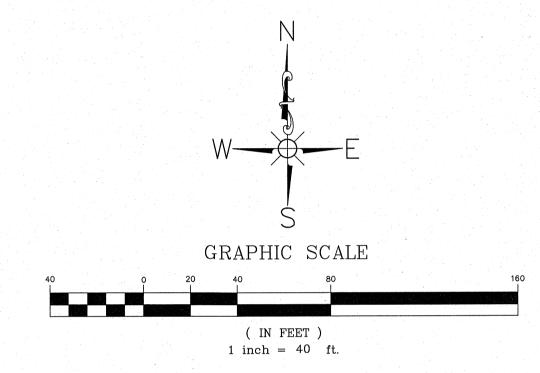
CONSTRUCTION PLANS

PREPARED FOR

RICH TORINO II TORINO LAKES PHASE 4

A PORTION OF TRACT "D" AS SHOWN ON THE PLAT
OF PORT ST. LUCIE SECTION FORTY SEVEN, AS RECORDED
IN PLAT BOOK 16, AT PAGE 40, OF THE PUBLIC RECORDS
OF ST. LUCIE COUNTY, FLORIDA
PORT ST. LUCIE, FLORIDA



INDEX TO SHEETS

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10 PAVING, GRADING & DRAINAGE DETAILS

6-7 SANITARY SEWER PLAN & PROFILE

SHEET DESCRIPTION

COVER SHEET

UTILITY PLAN

13 GENERAL NOTES

8-9 WATER & SEWER DETAILS

11 | EROSION CONTROL PLAN

12 HORIZONTAL CONTROL PLAN

2 OVERALL SITE PLAN

3 DETAILED SITE PLAN

OWNER

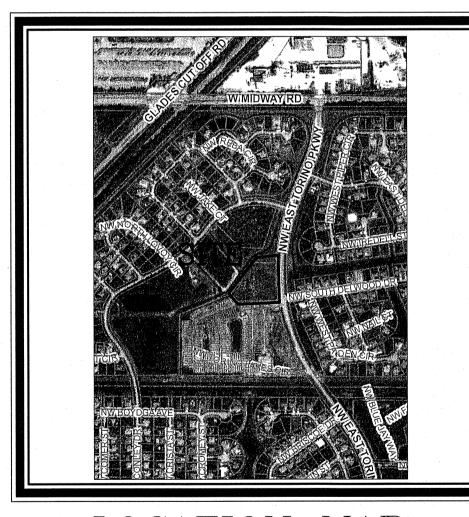
RICH TORINO II, LLC 2552 PETERS ROAD SUITE B FORT PIERCE, FLORIDA 34945 (772) 446-7344

CIVIL ENGINEER

ATLANTIC CIVIL ENGINEERING, INC. 2552 PETERS ROAD SUITE D FORT PIERCE, FLORIDA 34945 (772) 398-1520

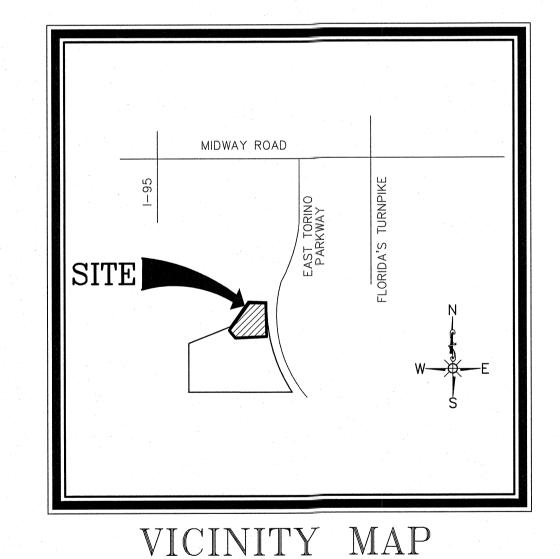
SURVEYOR

LAVENTURE & ASSOCIATES, INC. 2552 PETERS ROAD SUITE D FORT PIERCE, FLORIDA 34945 (772) 398-6430



LOCATION MAP

N.T.S.



GENERAL NOTES

1.) ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2019 (OR LATEST) CITY OF PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT'S TECHNICAL SPECIFICATIONS AND CONSTRUCTION STANDARDS.

2.) ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM

(NAVD) OF 1988.

3. THE PROPERTY OWNER, CONTRACTOR AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE SECTION 41.08 (q).

RICHARD M. LADYKO FL P.E. No. 34288 DATE

TORINO LAKES PHASE 4

SHEET 1 OF 13



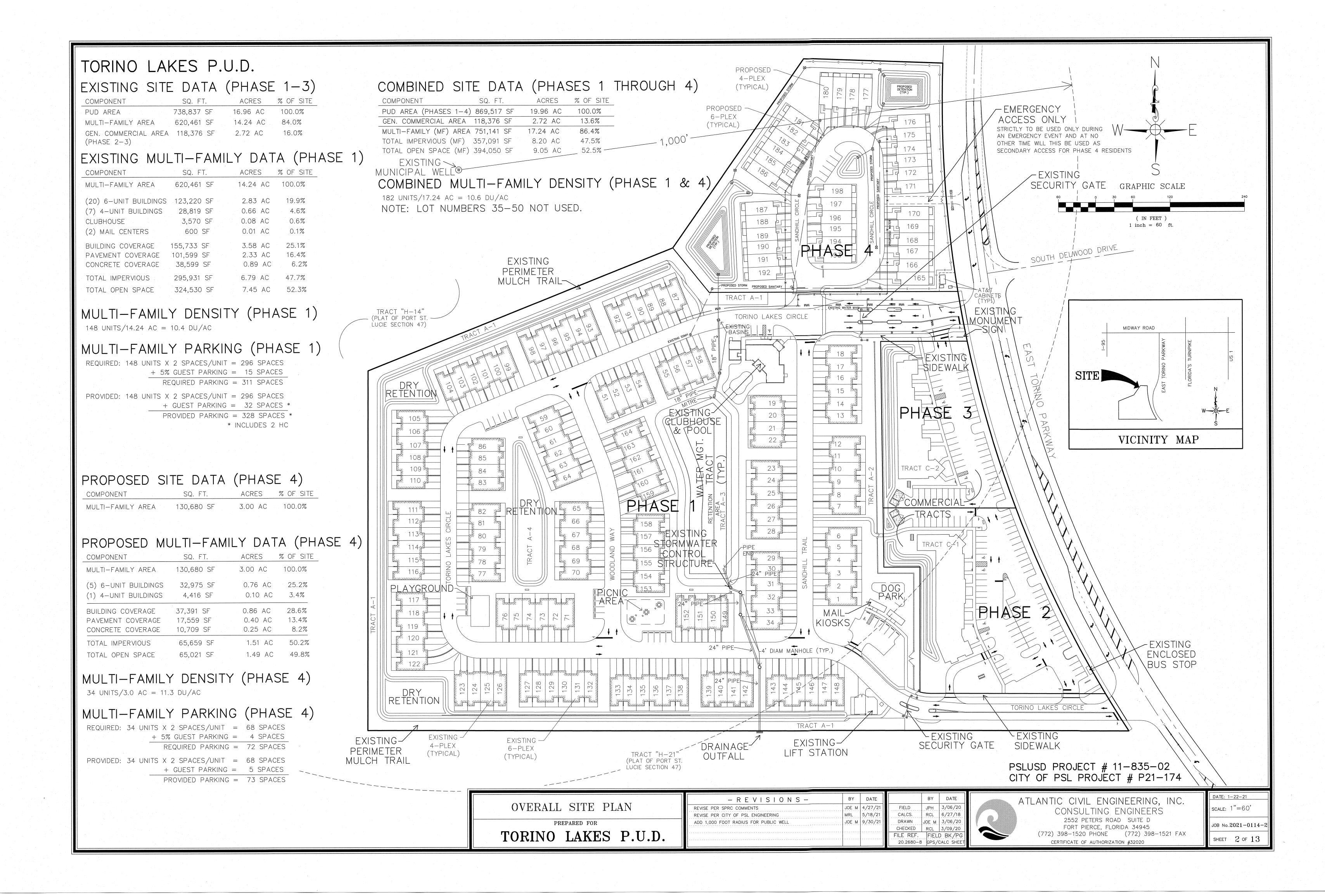
PREPARED BY
ATLANTIC CIVIL ENGINEERING, INC.
CONSULTING ENGINEERS

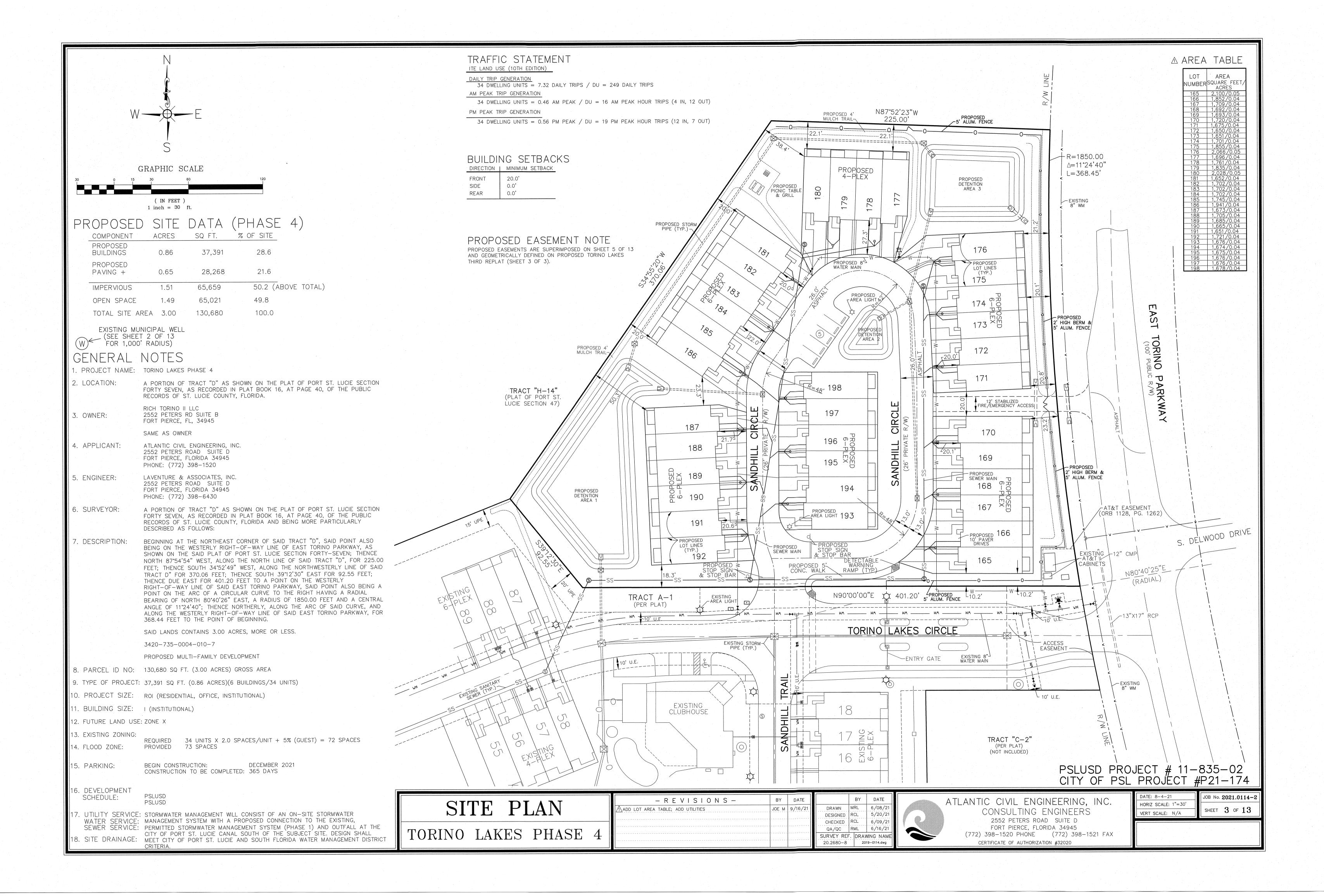
N.T.S.

2552 PETERS ROAD * SUITE D * FORT PIERCE, FLORIDA 34945 * (772) 398-1520 PHONE * (772) 398-1521 FAX

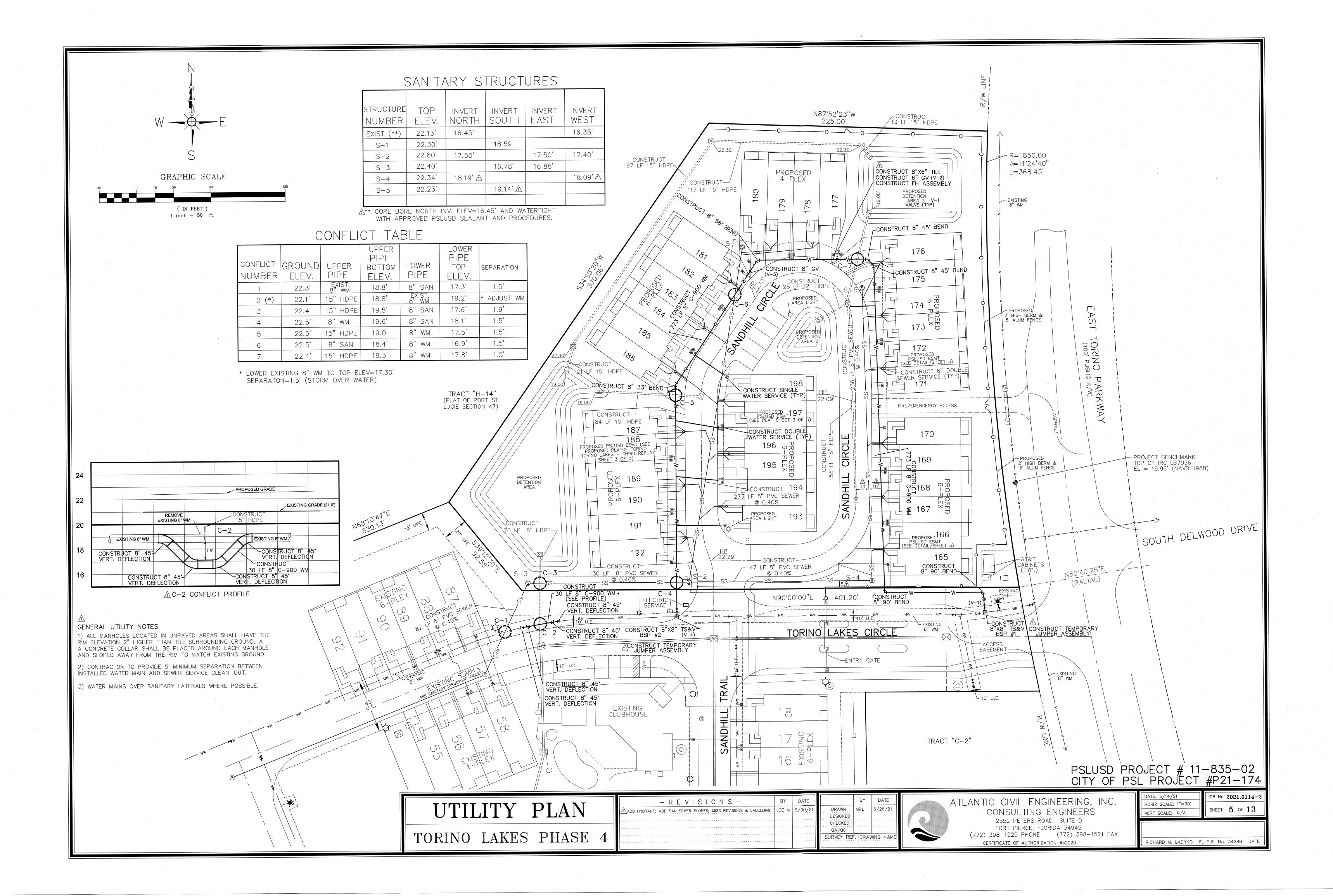
State of Florida Board of Professional Engineers Authorization No. 32020

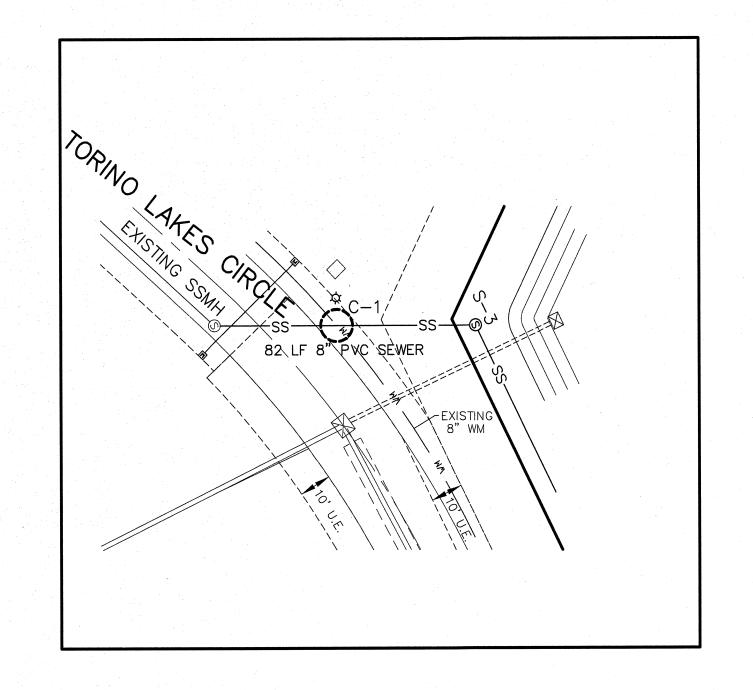
		PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174
DESCRIPTION	DATE	JOB No. 2021.0114-2
 SPRC COMMENTS (MULTIPLE PAGES)	9/30/21	000 1101 111 0

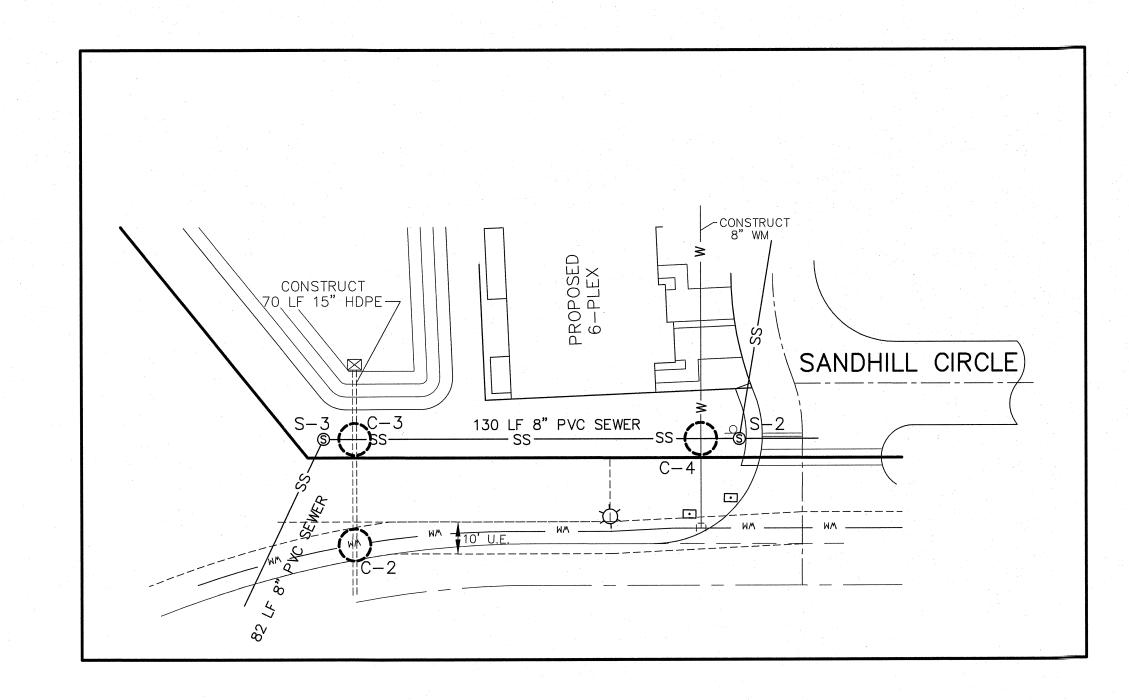


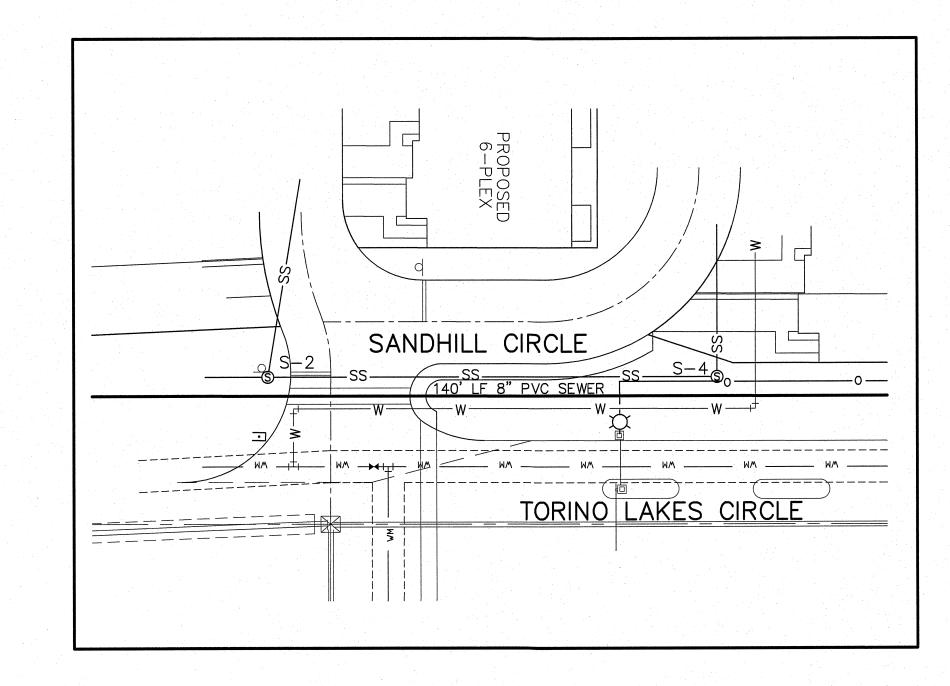


PROPOSED SITE DATA (PHASE II) COMPONENT ACRES SQ FT. % OF SITE	DRAINAGE STRUCTURE DATA STRUCTURE TOP INVERT ELEVATIONS BOTTOM STRUCTURE		
PROPOSED BUILDINGS 0.86 37,391 28.6	NUMBER ELEV. NORTH SOUTH EAST WEST ELEV. TYPE		
PROPOSED PAVING + 0.65 28,268 21.6	D-1 22.50' A19.20' A19.20' A19.20' TYPE "C" INLET D-2 19.00' MITER		
IMPERVIOUS 1.51 65,659 50.2 (ABOVE TOTAL)	D-3 21.85' 19.00' 18.50' TYPE "C" INLET	CONSTRUCT N87°52'23"W 117 LF 15" HDPE 225.00'	CONSTRUCT 13 LF 15" HDPE
OPEN SPACE 1.49 65,021 49.8	D-4 19.00' MITER D-5 22.30' 19.00' 18.50' TYPE "C" INLET	D-6 D-7	PROPOSED 5' ALUM. FENCE
TOTAL SITE AREA 3.00 130,680 100.0	D-6 22.30' 19.25' 19.25' 18.75' TYPE "C" INLET	22.30'	R=1850.00
STORAGE DATA (PHASE II)	D-7 22.30' 19.50' 19.50' 19.00' TYPE "C" INLET D-8 19.50' MITER	PROPOSED 19.00\ 19.00\ PROPOSED 19.00\ PROPOSE	8 PROPOSED L=368.45'
PROPOSED DETENTION AREA 1 (3.0' DEPTH)	D-9 19.50' MITER D-10 21.85' 19.50' 19.50' 19.50' 19.00' TYPE "C" INLET	PROPOSED FFE=23.50'	GRAPHIC SCALE
COMPONENT ACRES SQ FT. % OF SITE TOB 0.219 9,524 7.3	D-11 19.50' MITER	CONSTRUCT 197 LF 15" HDPE T O D	CONSTRUCT 30 0 15 30 60 120 74 LF 15" HDPE
BOT 0.139 6,071 4.6	D-12 22.00' 19.75' 19.25' TYPE "C" INLET D-13 \(\underset{\Delta}\)19.20' MITER		PROPOSED 12" HDPE (IN FEET) 1 inch = 30 ft.
PROPOSED DETENTION AREA 2 (3.0' DEPTH)	ALL INLETS TO MEET FOOT INDEX #232 AND BE LOAD BEARING UNLESS OTHERWISE INDICATED.		176 = 176 = 176
COMPONENT ACRES SQ FT. % OF SITE	ALL MITER ENDS TO MEET FDOT INDEX #272.	187 W	AS S
TOB 0.034 1,479 1.1 BOT 0.012 528 0.4	SFWMD CRITERIA (NAVD 1988)	CONSTRUCT— 28 LF 12" HDPE	175 PROPOSED SWALE SWALE
크림 : 이 그렇게 되는 것인 되었다고 하는 이 그림에 모르는 이 병에 가는 그 사람들이 되었다.	Δ SFWMD PERMIT #56-02907-P (PHASE 1)	P-104	PROPOSED SWALE 174 FFROP POP POP POP POP POP POP POP POP POP
PROPOSED DETENTION AREA 3 (3.0' DEPTH)	MIN. FFE = 23.25' MIN. ROAD CROWN = 21.00'	18 _x 18 _y 20 000 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
COMPONENT ACRES SQ FT. % OF SITE TOB 0.115 5,008 3.8	CWE = 17.30'	785 PROPOSED DETENTION AREA 2	173 SEE SEE TO PROPOSED CORREST ALUM FENCE PROPOSED AREA & S' ALUM FENCE
BOT 0.070 3,033 2.3	CONSTRUCT———————————————————————————————————		「F 172
	TRACT "H-14" (PLAT OF PORT ST. LUCIE SECTION 47)		STABILIZED ROAD DESIGN
IMPERVIOUS AREA TABULATIONS		198	CONSTRUCT 12" STABILIZED SUBGRADE (LBR 40 (MIN.)) COMPACTED TO 98% OF MAX DENSITY AS PER AASHTO
DRIVEWAYS & SIDEWALKS 10709 SF 0.246 AC	$\delta = \frac{D-2}{2}$		CULVERT W/ 2 MITERED END SECTIONS CULVERT (SIZE & INVERTS TBD BY CITY OF PSL) CULVERT T-180 AND SODDED (BAHIA OR EQUIV.) END SECTIONS CULVERT SEE ROAD DESIGN SPEC'S)
ROADWAY 17559 SF 0.403 AC	A CONSTRUCT 84 LF 15"	CT — 197 — 197 — 187	
TOTAL IMPERVIOUS 28268 SF 0.649 AC	TOP OF BANK ELEV=22.0' (TYP.)	196 \(\frac{1}{1}\) \(\frac{1}{2}\) \(\frac{1}	170 21.7' M.O.T. PLAN CONTRACTOR TO USE FDOT
	ELEV=22.0 (TTP.)	188	PROPOSED SWALE PROPOSED STD. INDEX NO. 102-602 (FDOT 2021-22 PLANS) FOR EMERGENCY ACCESS CONNECTION.
CITY CODE SECTION 41.08 (g) NOTE THE PROPERTY OWNER, CONTRACTOR AND AUTHORIZED REPRESENTATIVES SHALL	BOTTOM ELEV=19.0' (TYP.)	R 189 T X /	21.85' 2' HIGH BERM & 5' ALUM FENCE
PROVIDE PICKUP, REMOVAL AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT—OF—WAY IN	PROPOSED DETENTION DETENTION	190	FFR 6 R 168
ACCORDANCE WITH CITY CODE SECTION 41.08 (g).	2,47"E	NAS / SS /	PROJECT BENCHMARK TOP OF IRC, LB7056 EL = 19.96' (NAVD 1988)
	N68°10 13' UPE CONSTRUCT 8 LF 15" HDPE 7	191	PROPOSED 166
	D-13	192 HP 2220'	10' PAVER DRIVES
	TRAC PLATI	PROPOSED 5' WARNING CONC. WALK RAMP (TYP)	165 165
	S D-1 SS SS	SS SS SS O	0 0 (RADIAL)
	EXISTING O CONSTRUCT 60 LF 15" HDPE	N90°00'00"E \$\frac{1}{5}\text{F}	PROPOSED ALUM. FENCE
	WM 10' U.E. WM		
	PROPOSED OPEN CUT (SEE RESTORATION DETA	TORINO LAKE	
		EXISTING ASPHALT ENTRY GATE	ACCESS II EASEMENT
	10' U.E.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LEXIS CLUB	STING SHOUSE 18	L 10' U.E.
	10 A A A A A A A A A A A A A A A A A A A		
	TYPE O INTE		TRACT "C-2" \ \ (PER PLAT) \ (NOT INCLUDED) \ PSLUSD PROJECT # 11-835-02
	EXISTING TYPE C INLE S. INV = 18. CORE BORE	16 X 9	(NOT INCLUDED) PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174
	CORE BORE N. INV = 18. ASEAL OPENING W BUTYL/ SEALANT	OR EQUIV.	RICHARD M. LADYKO, P.E. #34288 DATE
		- R E V I S I O N S - BY DATE BY DATE	
	DRAINAGE PLAN	ADD SFWMD DATA; MISC. LABELS; OMIT WEST SIDEWALK; ADD BM JOE M 9/16/21 FIELD JPH 3/06/2 CALCS. RCL 6/27/1	CONSULTING ENGINEERS Scale: 1"=30"
	TORINO LAKES PHASE 4	DRAWN MRL 3/06/2 CHECKED RML 3/09/2 FILE REF. FIELD BK/F	FORT PIERCE, FLORIDA 34945 (772) 398-1520 PHONE (772) 398-1521 FAX
	TOMINO LAMES FITASE 4	20.2680-8 GPS/CALC SH	CERTIFICATE OF AUTHORIZATION #32020 SHEET 4 OF 13

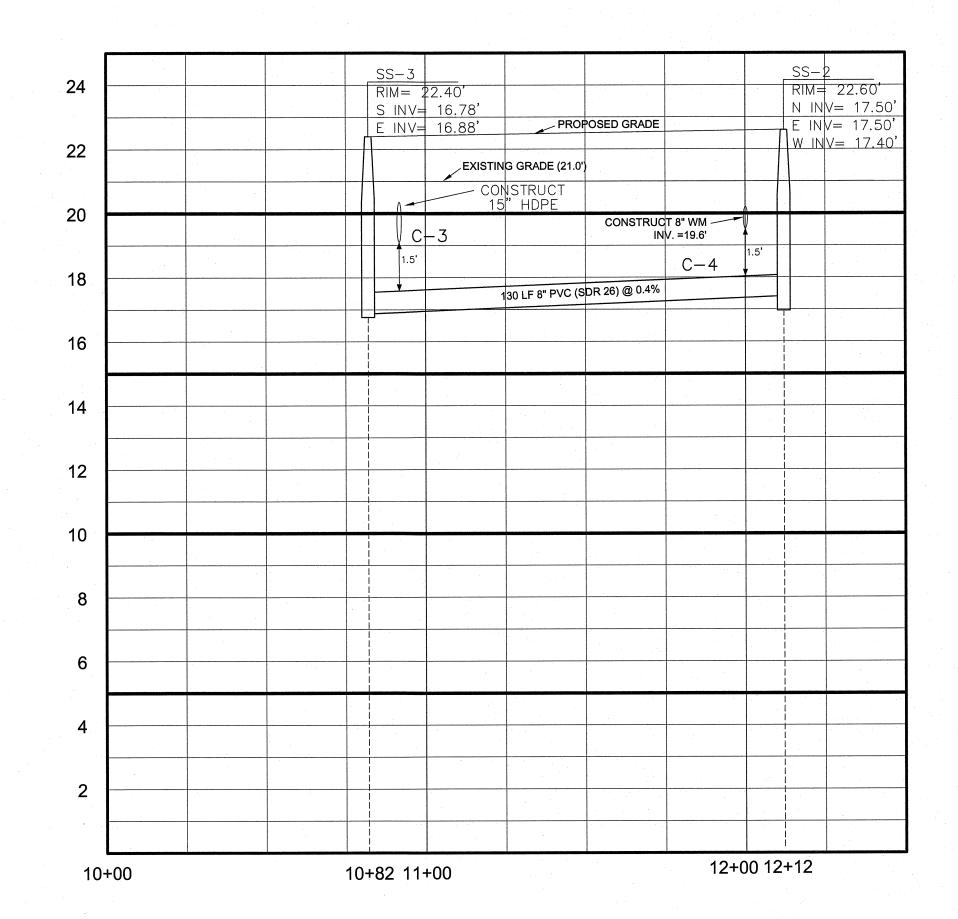


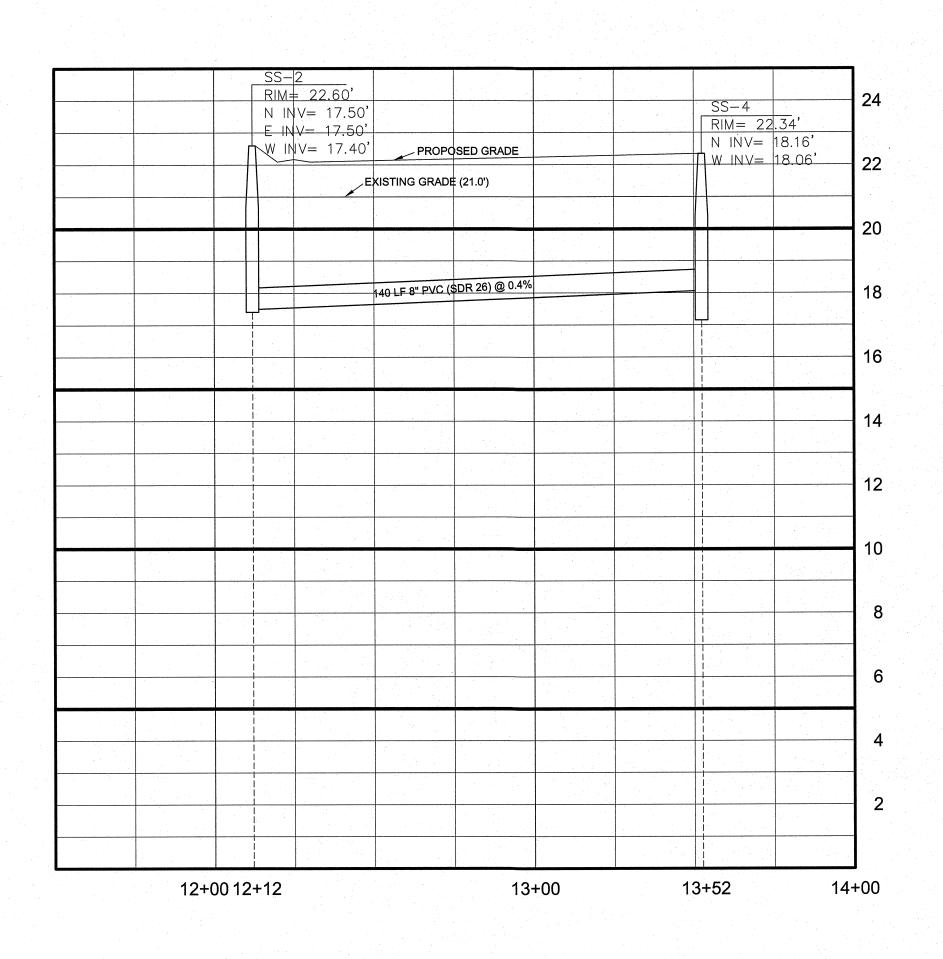






24		EXISTING S RIM= 22.1	SSMH 3' 5.45' (PRO 5.35' (EXIS	DOCED)	SS-3	
47		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6.45, (PRU 6.35' (EXIS	TING)	RIM= 2 S INV=	16.78'
22			PROPOS	ED GRADE	E INV=	16.88'
			EXISTING	GRADE (21.0')		
20						
			C-	1 (TYP.)		
18		EX. 8" WM INV. =18.80	1.5'			
		82	LF 8" PVC (SDR	26) @ 0.4%		
16						
14						
10			1. 1.			
12						
10						
8						
6						
4						1.
3						
2						





PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174

HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 3'

PLAN AND PROFILE

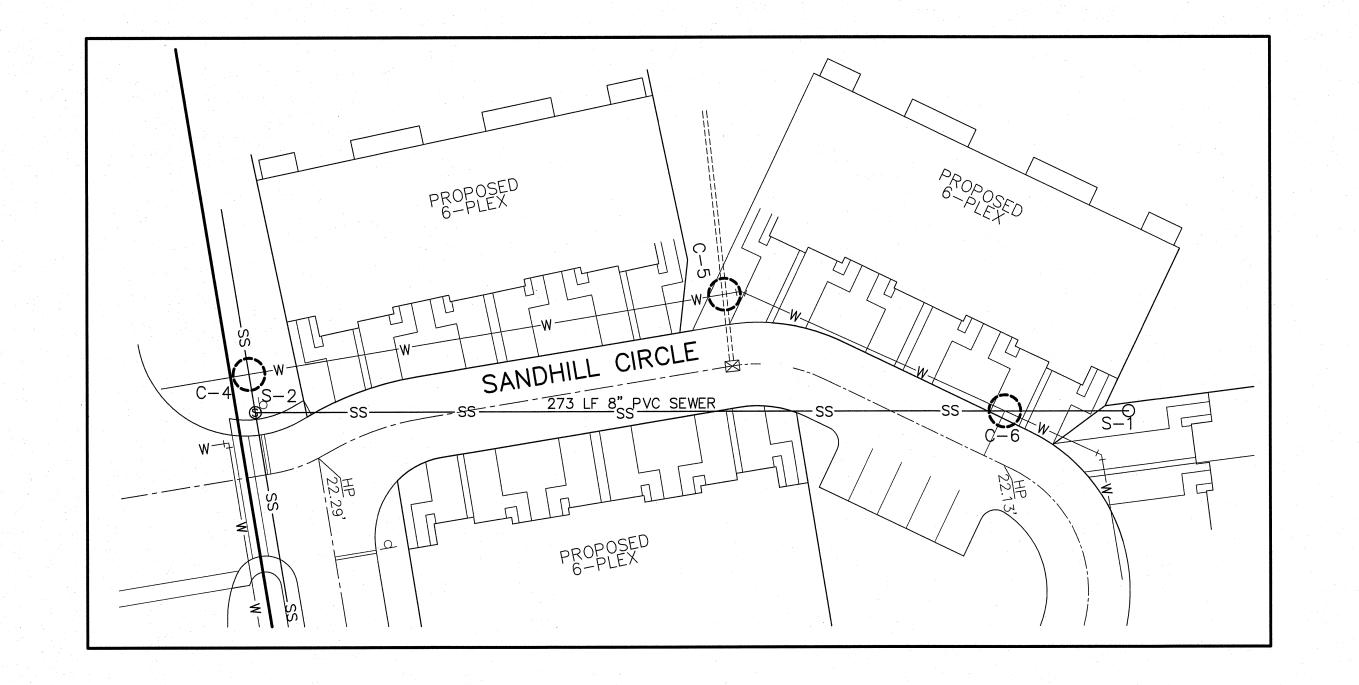
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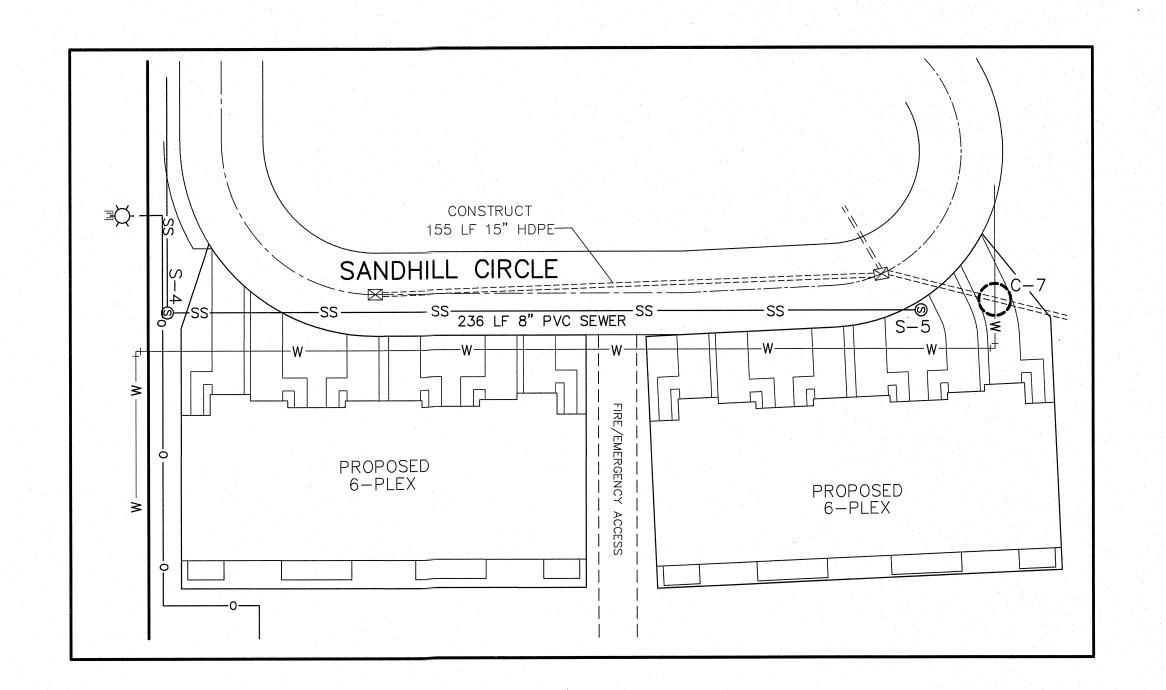
TORINO LAKES PHASE 4

- REVISIONS -	BY	DATE		BY	DATE	
			FIELD			
			CALCS.			
			DRAWN			
			CHECKED			
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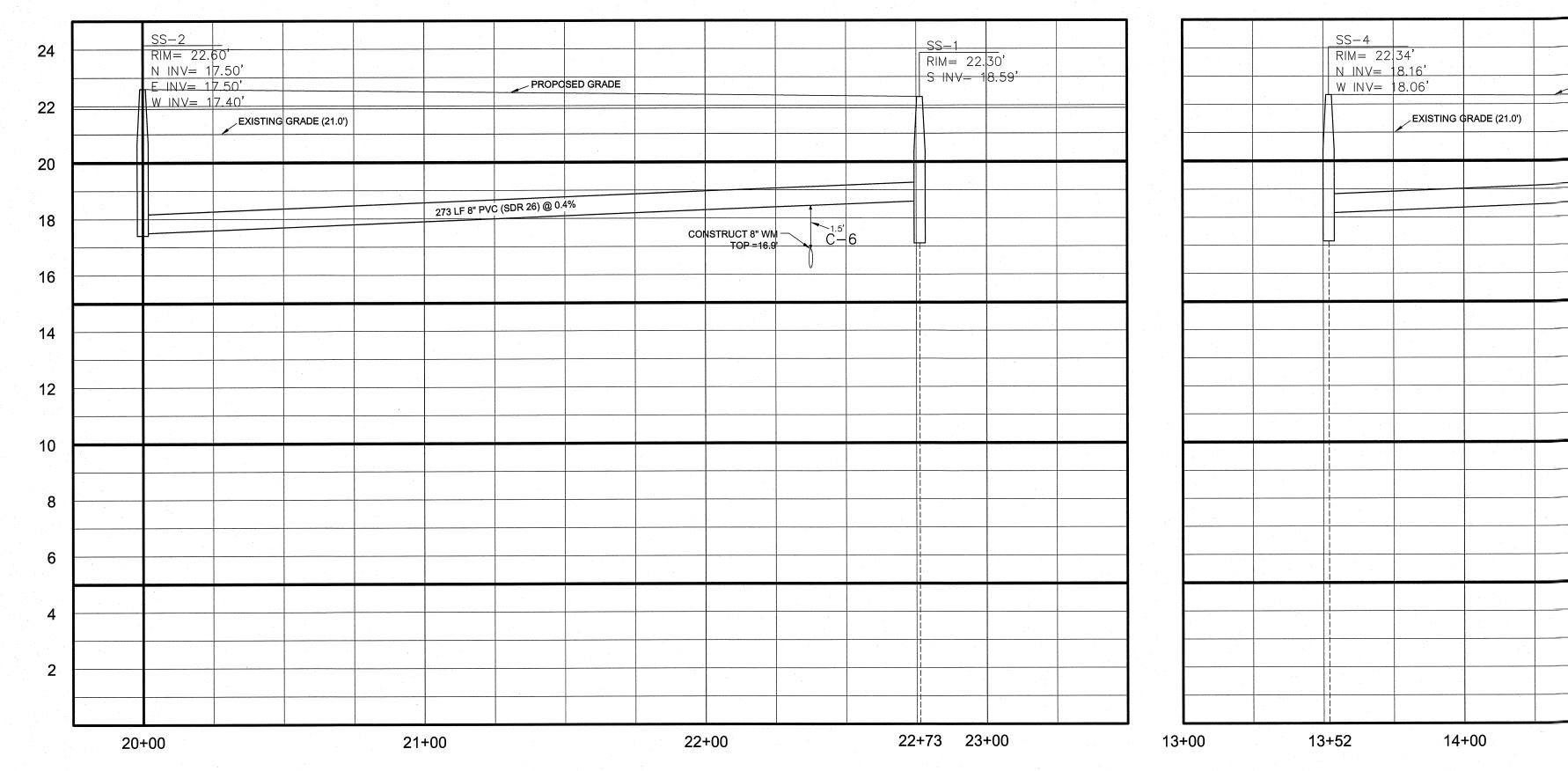


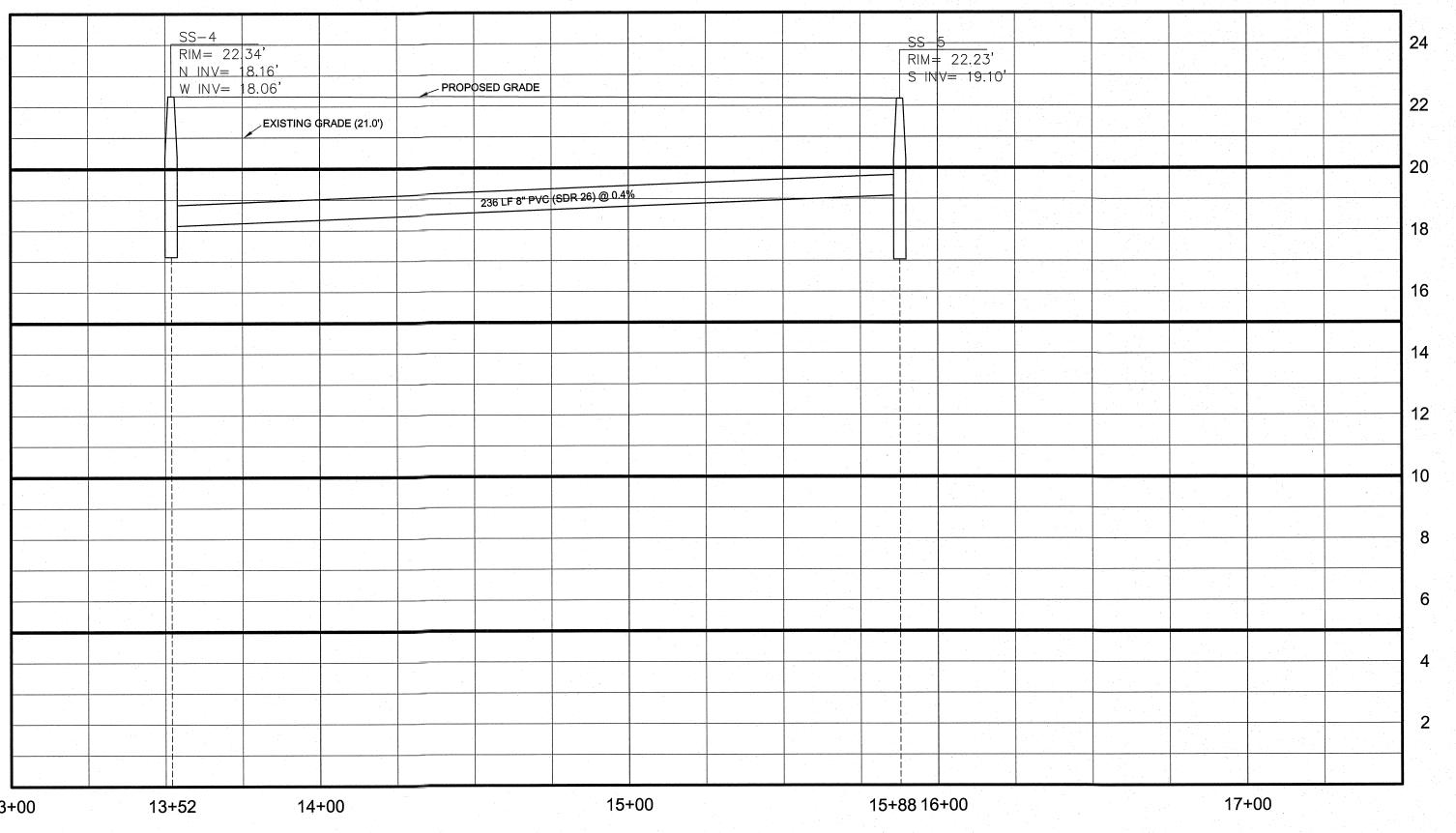
| DATE |





LEROY





PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174

HORIZONTAL SCALE: 1" = 30' VERTICAL SCALE: 1" = 3'

PLAN	N AND PR	OFILE	
	PREPARED FOR		
TORINO	LAKES	PHASE	4

				Marina Tilla	
- REVISIONS -	BY	DATE		BY	DATE
			FIELD		
			CALCS.		
			DRAWN		
			CHECKED		
	1		FILE REF.	FIELD	BK/PG
			20.2680-8	GPS/0	CALC SHEET
		L. Corres Naci			\$

	ATLANTIC CIVIL ENGINEERING, INC.
	CONSULTING ENGINEERS
	2552 PETERS ROAD SUITE D
	FORT PIERCE, FLORIDA 34945
	(772) 398-1520 PHONE (772) 398-1521 FAX
	CERTIFICATE OF AUTHORIZATION #32020

RICHARD M. LADYKO, P.E. #34288

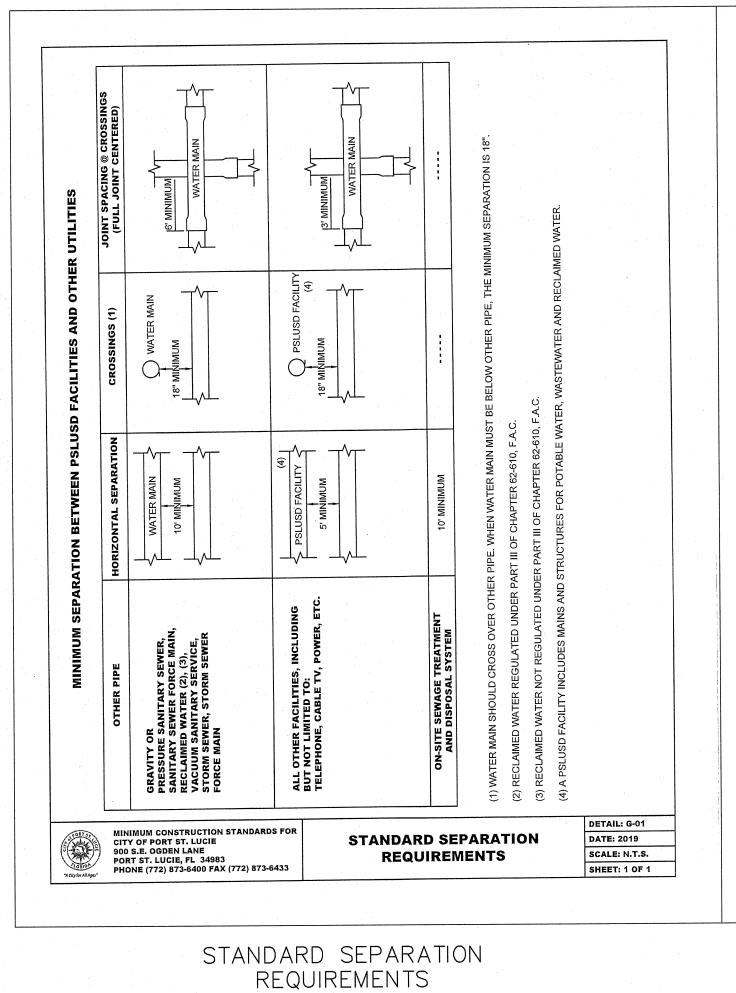
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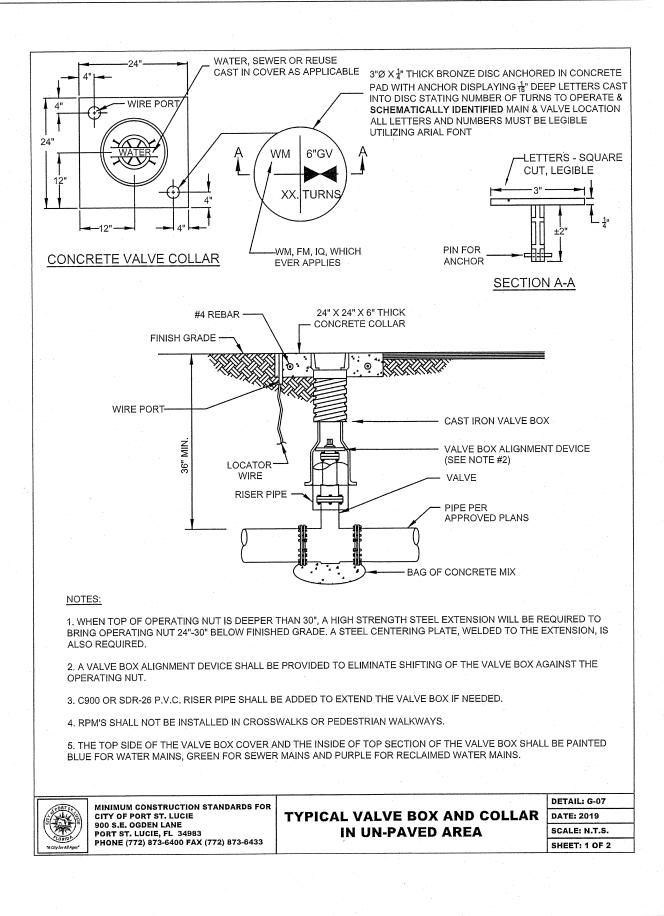
JGINEERING, INC.

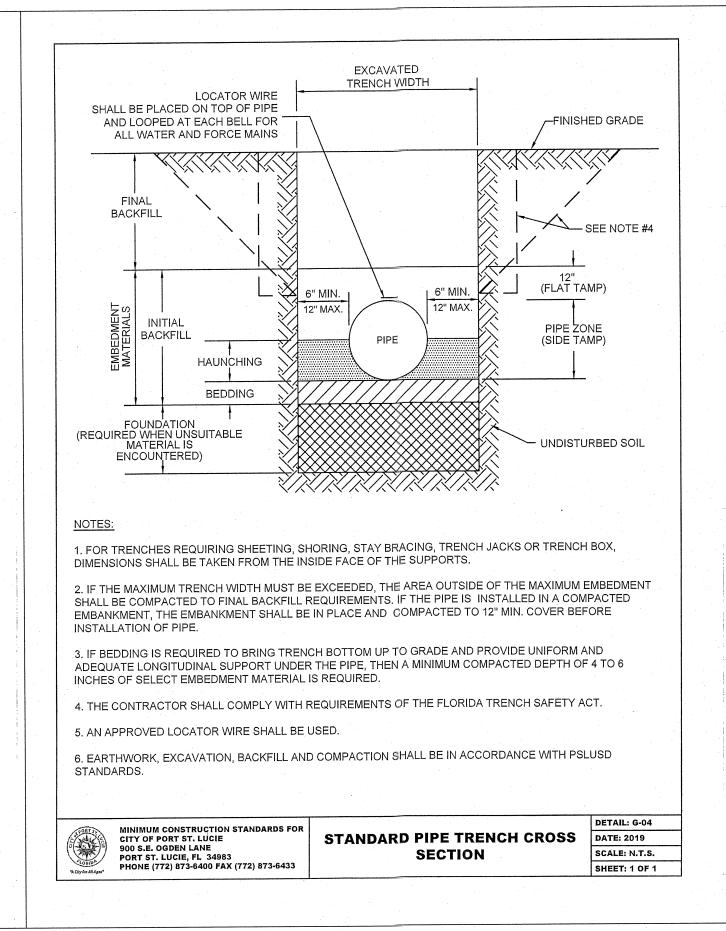
ENGINEERS

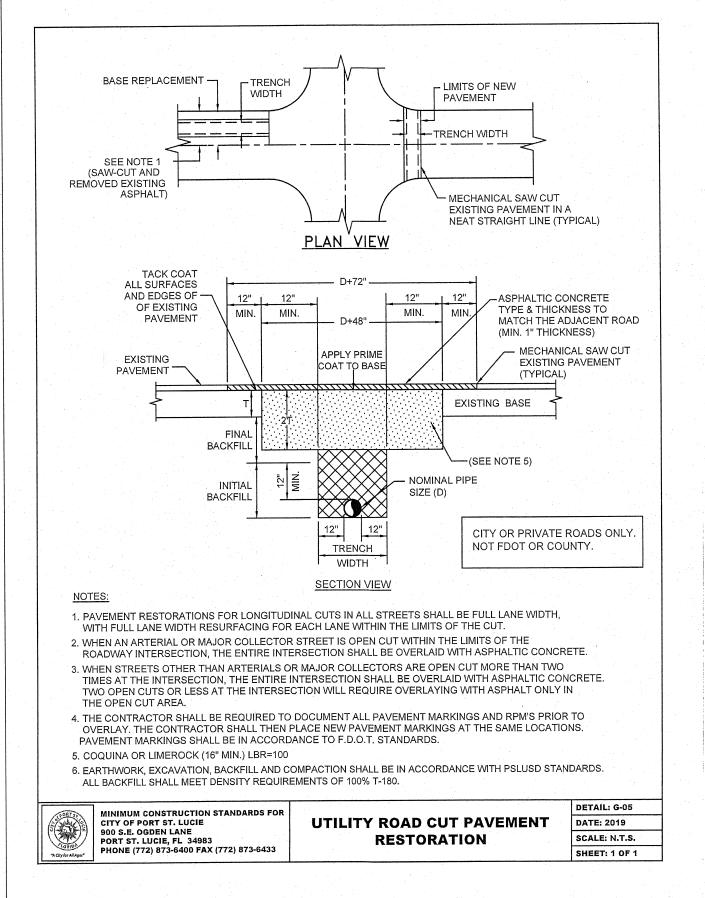
ROAD SUITE D
TLORIDA 34945
(772) 398-1521 FAX
IZATION #32020

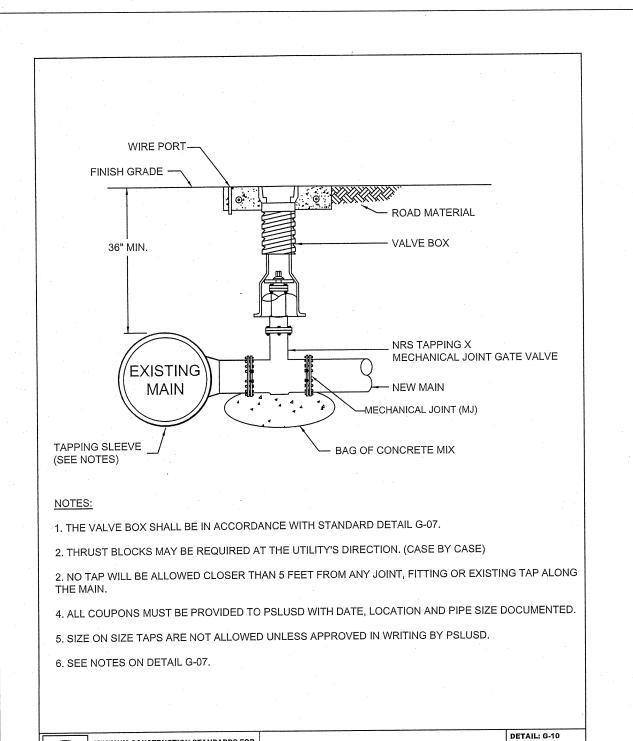
DATE: 8-4-21
SCALE: 1"=30'
JOB No. 21.0114-2
SHEET 7 OF 13



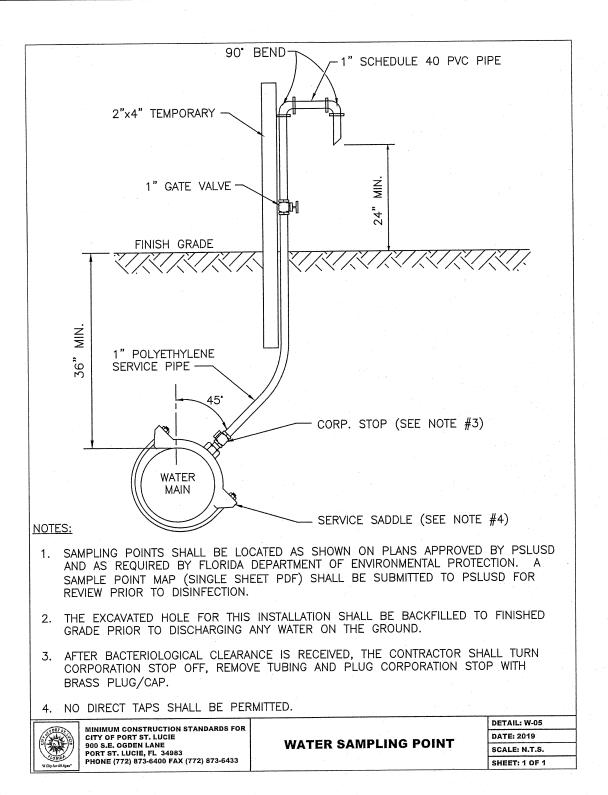




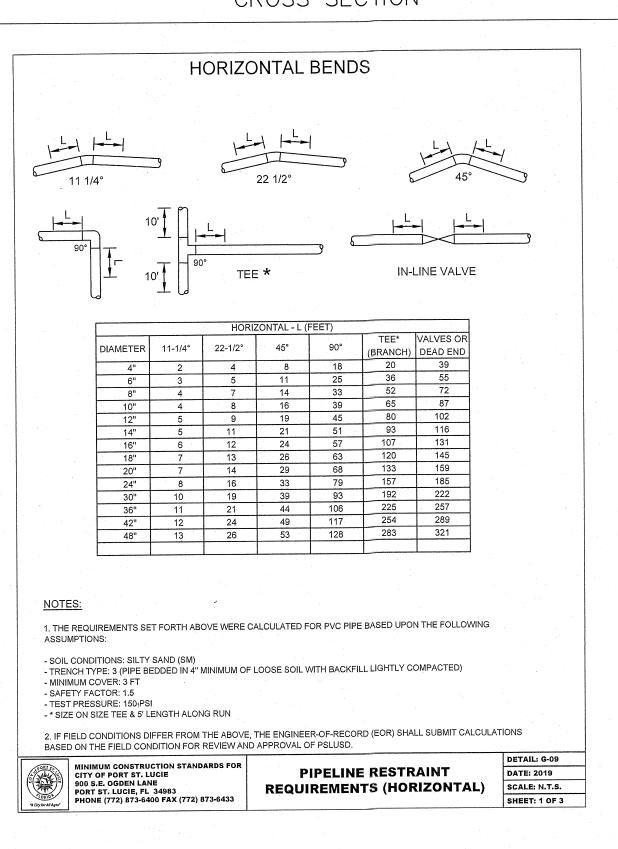




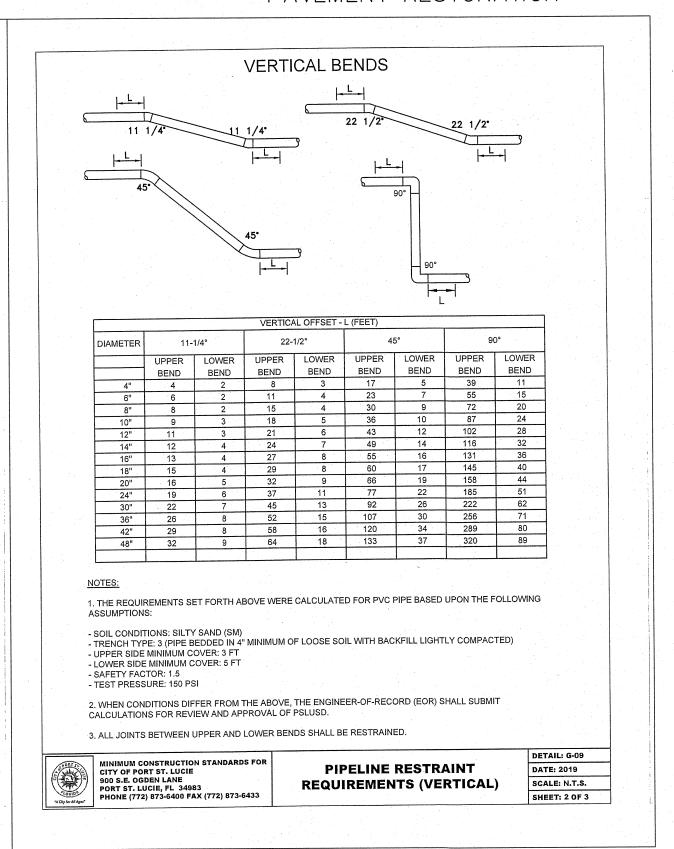




STANDARD PIPE TRENCH CROSS SECTION



UTILITY ROAD CUT PAVEMENT RESTORATION



TAPPING SLEEVE AND VALVE ASSEMBLY

PHONE (772) 873-6400 FAX (772) 873-6433

TAPPING SLEEVE AND VALVE

ASSEMBLY

SCALE: N.T.S.

WATER SAMPLING POINT

PIPELINE RESTRAINT REQUIREMENTS (HORIZONTAL) PIPELINE RESTRAINT REQUIREMENTS (VERTICAL) PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174

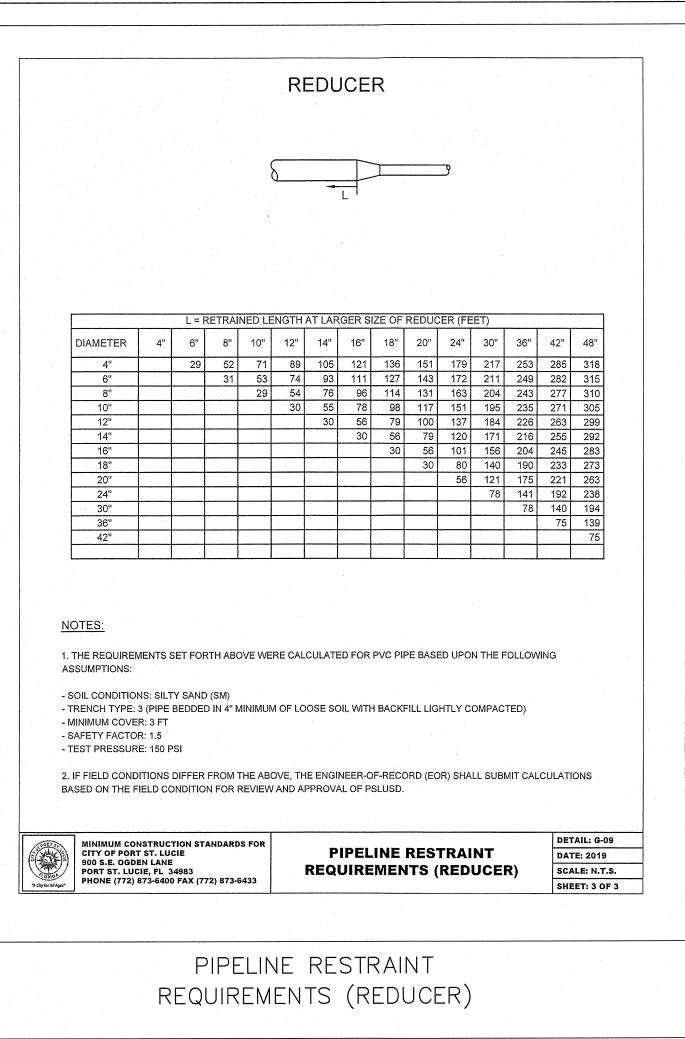
WATER AND SEWER DETAILS

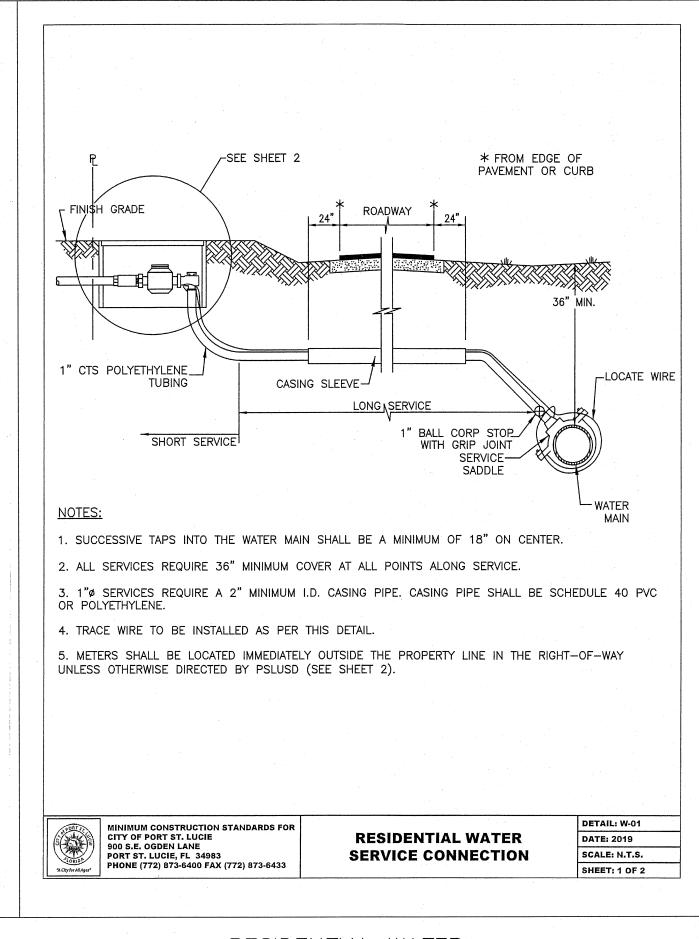
TORINO	LAKES	PHASE	4	

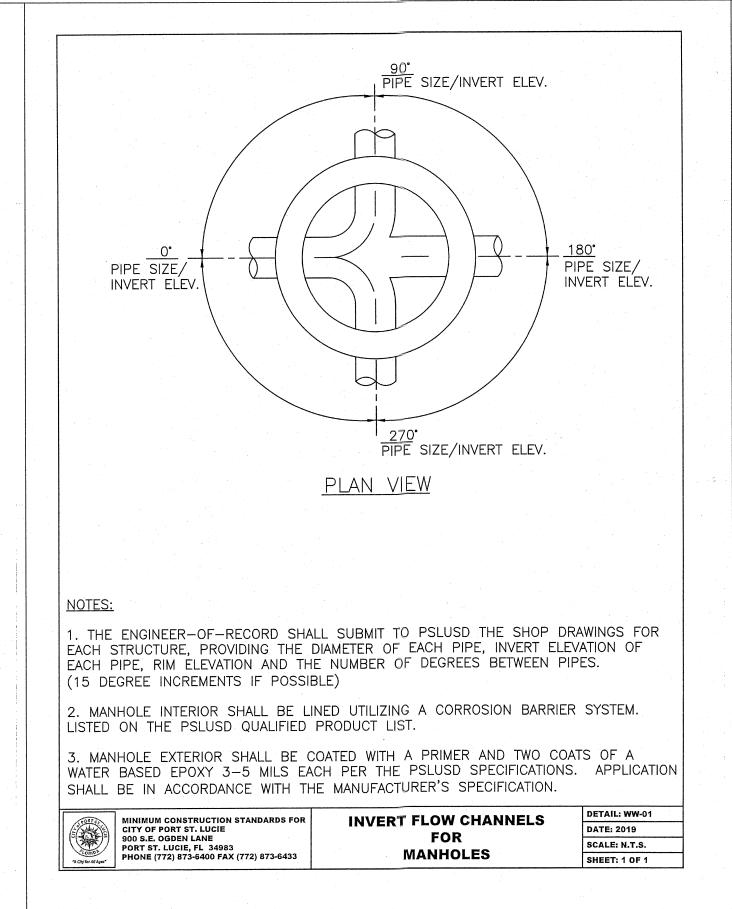
- REVISIONS -	BY	DATE		BY	DATE
			DRAWN		
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			QA/QC		
			SURVEY REF	DRAV	VING NAM

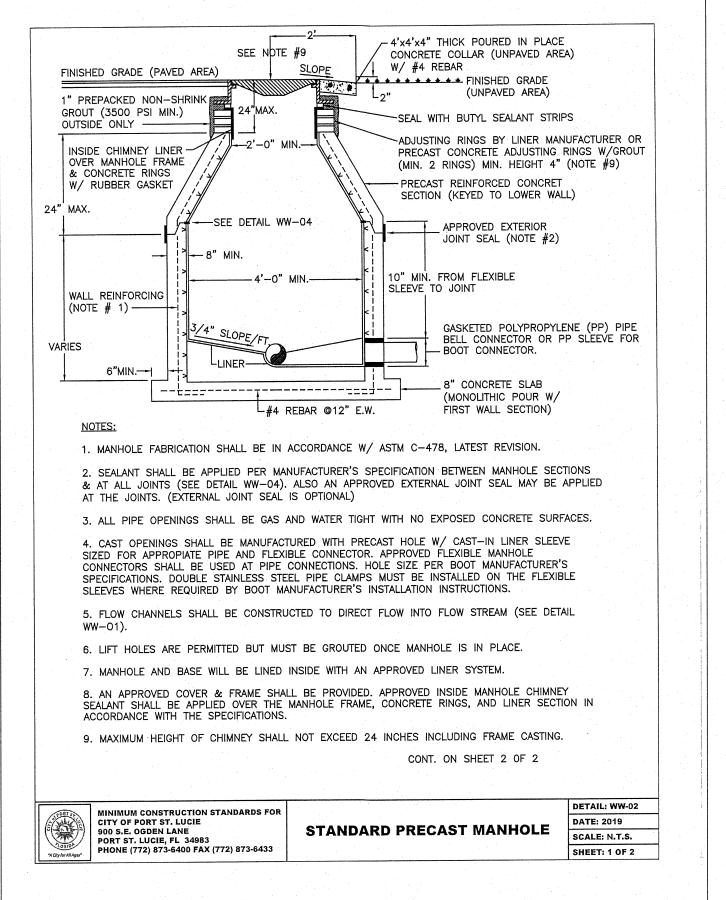
ATLANTIC CIVIL ENGINEERING, INC.
CONSULTING ENGINEERS
2552 PETERS ROAD SUITE D FORT PIERCE, FLORIDA 34945
(772) 398-1520 PHONE (772) 398-1521 FAX
CERTIFICATE OF AUTHORIZATION #32020

OI I SE I NOOL	01 πι 21 17 1
DATE: 8-4-21	JOB No. 2021.0114-2
HORIZ SCALE: 1"=40'	0 10
VERT SCALE: N/A	SHEET 8 OF 13
RICHARD M. LADYKO, P.E	. #34288 DATE





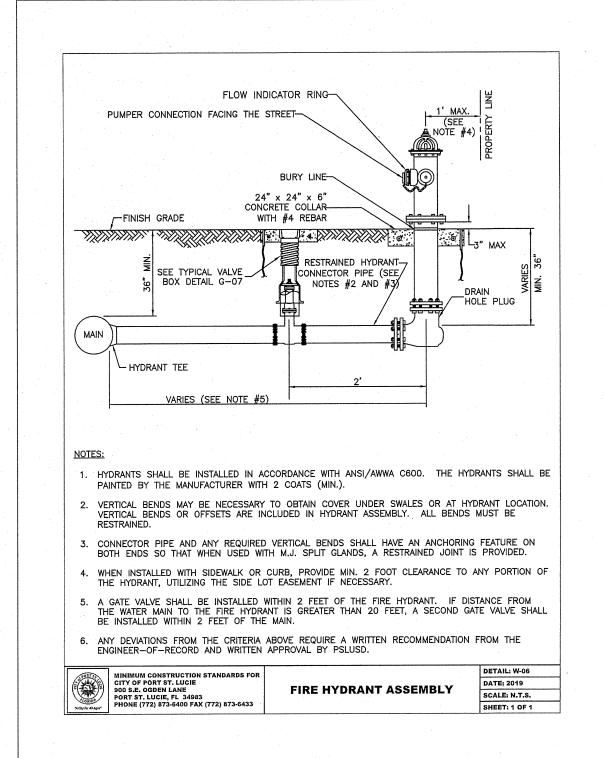


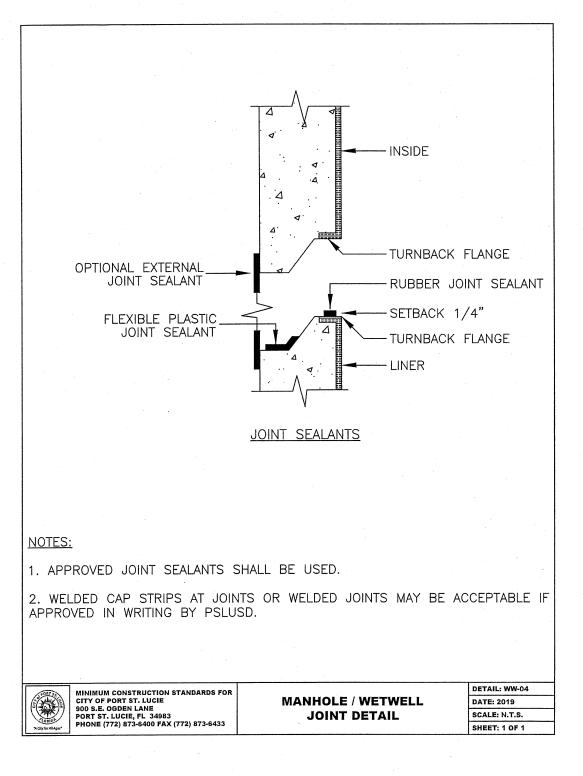


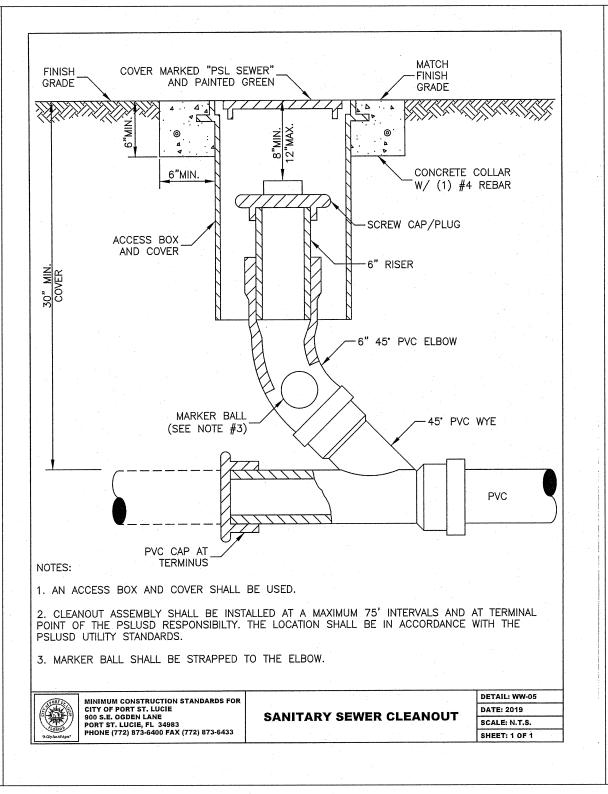
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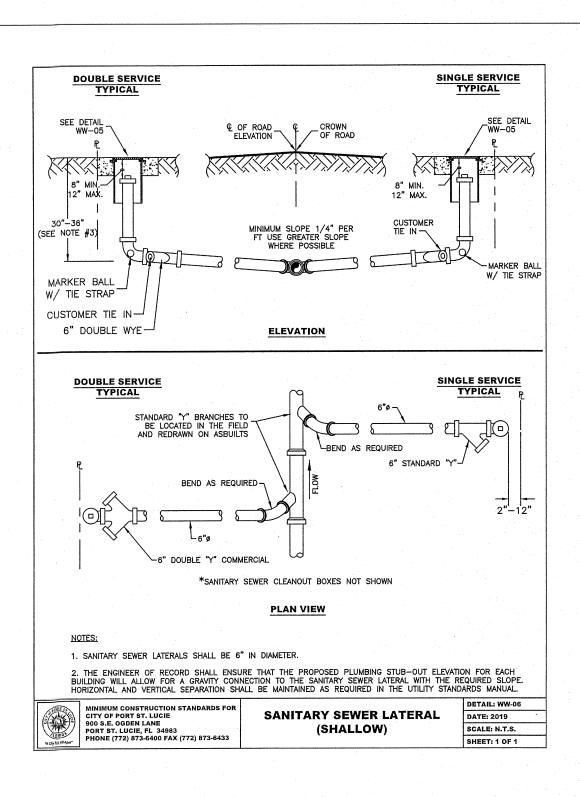
INVERT FLOW CHANNELS FOR MANHOLES

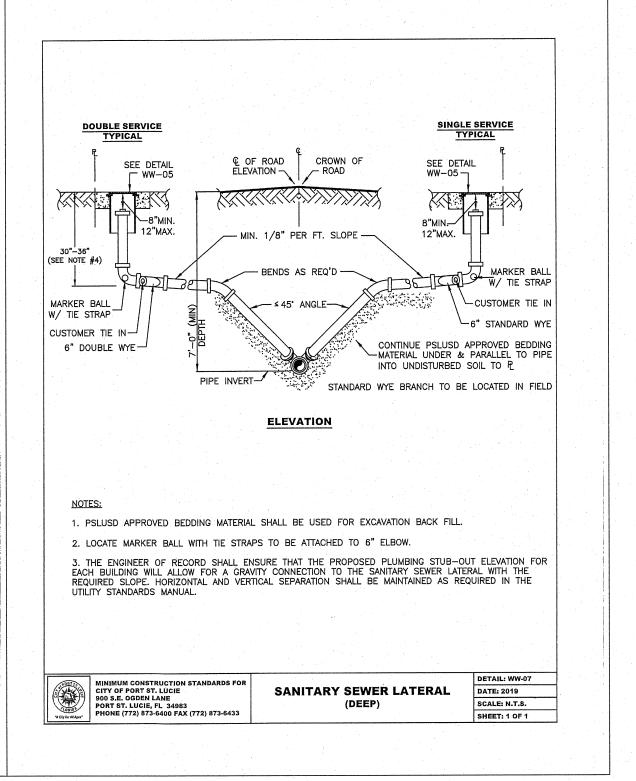
STANDARD PRECAST MANHOLE











FIRE HYDRANT ASSEMBLY

MANHOLE/WETWELL

JOINT DETAIL

SANITARY SEWER
CLEANOUT

SANITARY SEWER LATERAL (SHALLOW) SANITARY SEWER LATERAL (DEEP)

PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174

WATER AND SEWER DETAILS

TORINO LAKES PHASE 4

- REVISIONS - BY DATE

DRAWN
DESIGNED
CHECKED
QA/QC
SURVEY REF. DRAWING NAM

ATLANTIC CIVIL ENGINEERING, INC.

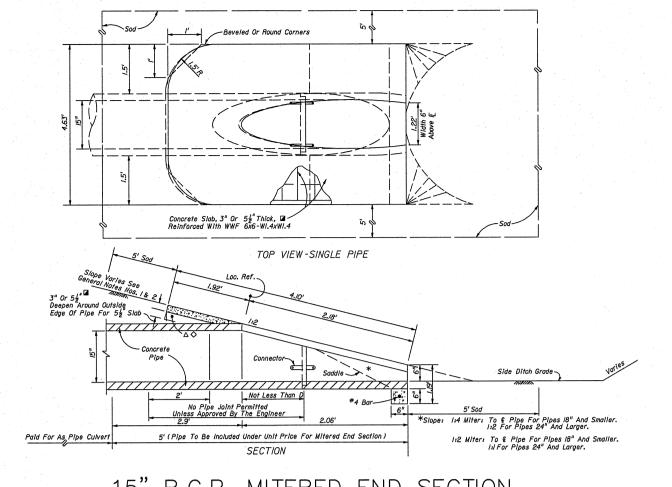
CONSULTING ENGINEERS

2552 PETERS ROAD SUITE D

FORT PIERCE, FLORIDA 34945

(772) 398-1520 PHONE (772) 398-1521 FAX

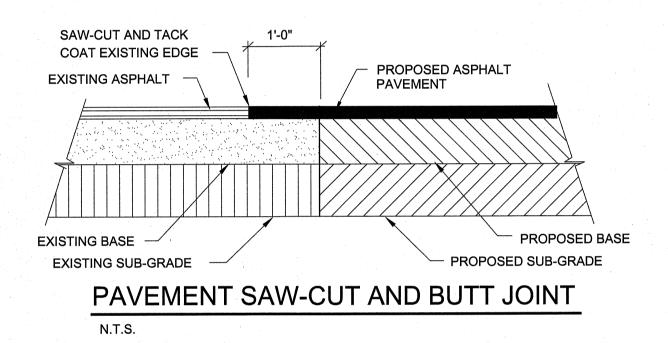
CERTIFICATE OF AUTHORIZATION #32020

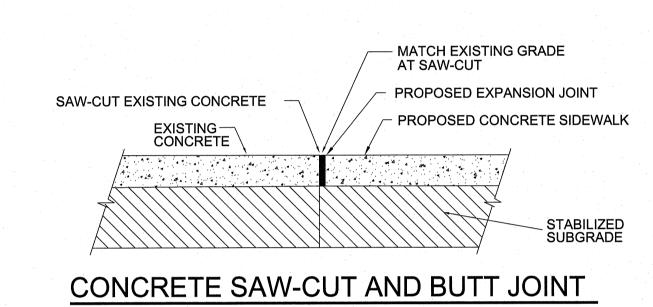


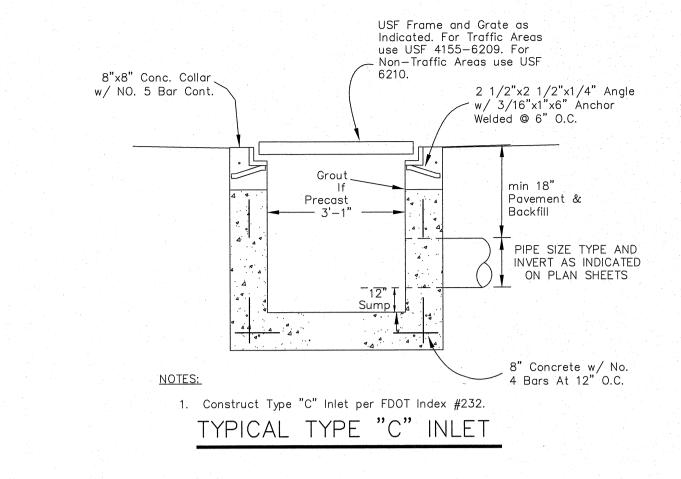
15" R.C.P. MITERED END SECTION

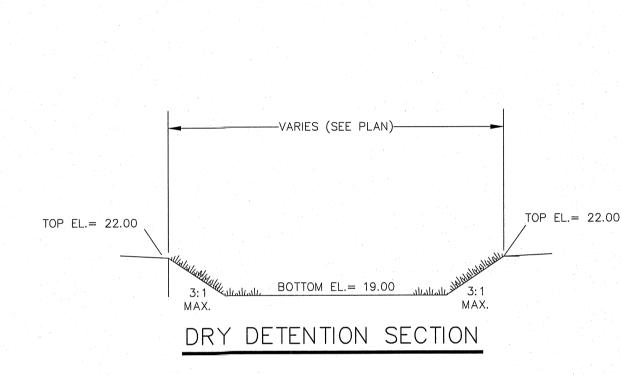
CONSTRUCT MITERS PER FDOT INDEX 273

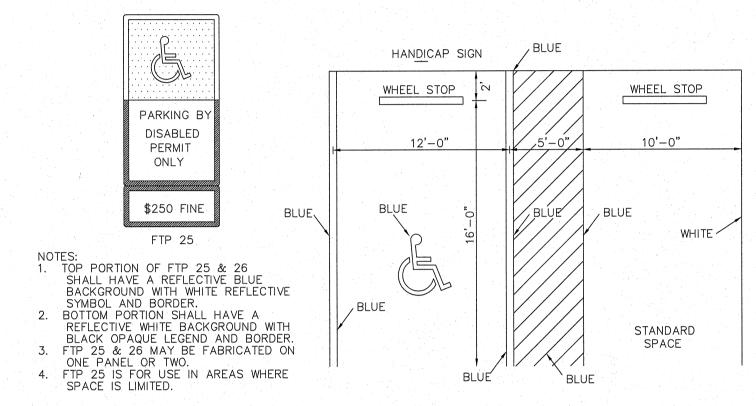
⚠ PER 2020-21 FDOT DESIGN STANDARDS



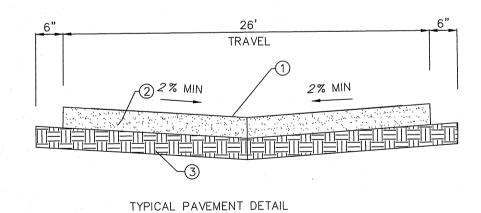






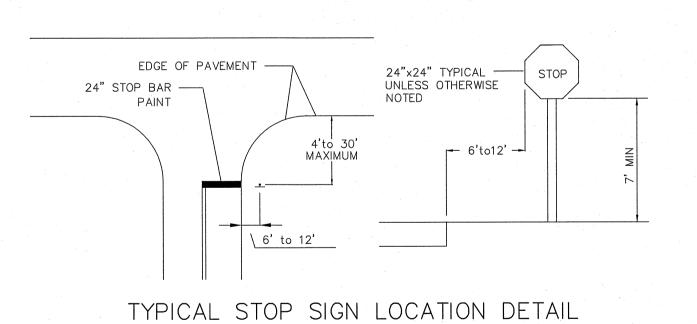


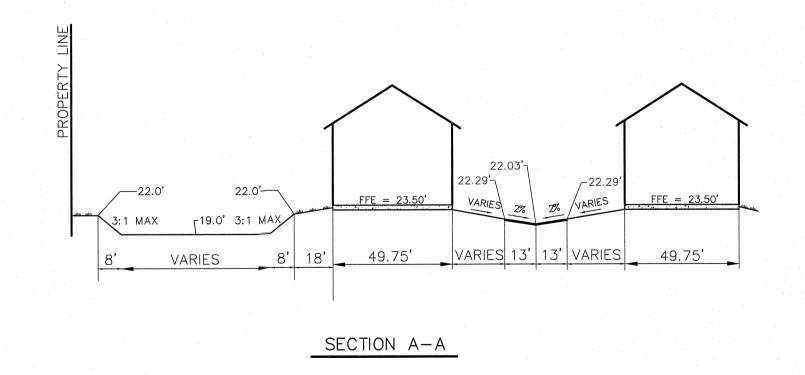


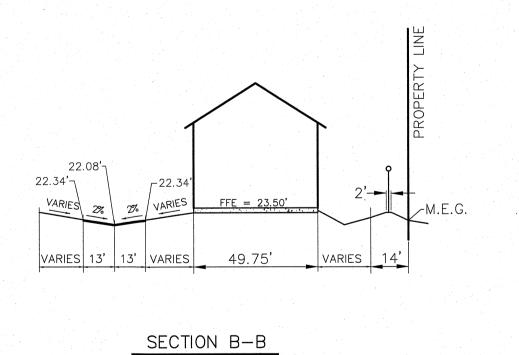


① 1 1/2" TYPE "S" ASPHALT
② 6" ROCK BASE (MIN. 98% OF AASHTO T-180)
③ 12" STABILIZED SUBGRADE (COMPACTED MIN. 98% OF AASHTO T-180)

FLEXIBLE PAVEMENT SECTION







PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174

PAVING, GRADING & DRAINAGE DETAILS

TORINO LAKES PHASE

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ASE	4	ı													
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- REVISIONS -	BY	DATE		BY	DATE
2020-21 FDOT REFERENCE & PARKING DETAIL; OMIT INLET DETAIL	JOE M	9-30-21	DRAWN	MRL	7-2-21
			DESIGNED	MRL	7-2-21
	1		CHECKED	RCL	7-31-21
			QA/QC	RML	8-4-21
			SURVEY REF	DRAV	VING NAME
			20.2680-8	2021-01	14-2-PGD-Details



ATLANTIC CIVIL ENGINEERING, INC.	
CONSULTING ENGINEERS	
2552 PETERS ROAD SUITE D FORT PIERCE, FLORIDA 34945	
(772) 398-1520 PHONE (772) 398-1521 FAX CERTIFICATE OF AUTHORIZATION #32020	

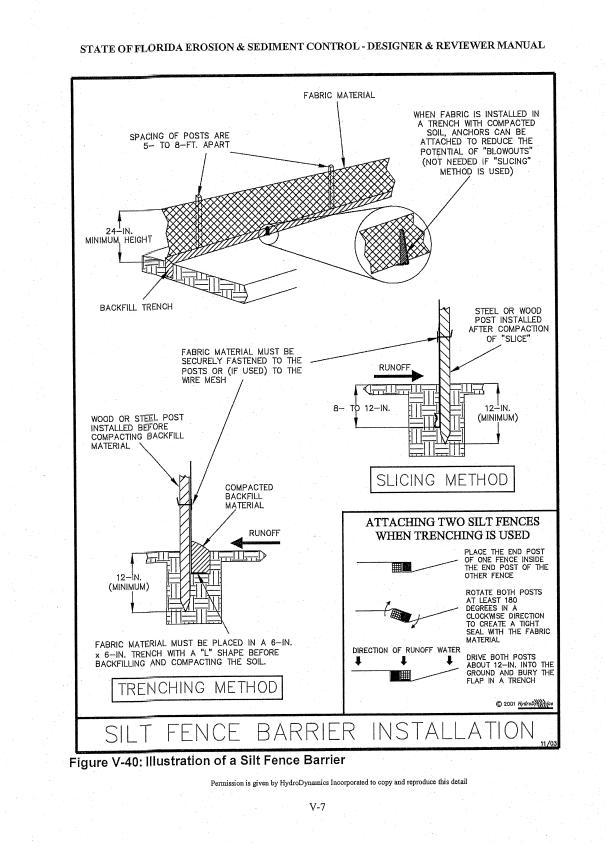
DATE: 8-4-21 HORIZ SCALE: 1"=40' VERT SCALE: N/A	JOB No. 2021.0114-2 SHEET 10 OF 13
RICHARD M. LADYKO, P.E.	#34288 DATE

Section 1	Project Name and location information:	TORINO LAKES - PHASE 4, CONSISTING OF 34 PROPOSED TOWNHOUSES AND ASSOCIATED INFRASTRUCTURE EAST TORINO PARKWAY	
Section 2	Describe the nature of the construction activity:	MULTI-FAMILY RESIDENTIAL	
ection 3	Describe the intended sequence of major soil disturbing activities:	0-3 DAYS INSTALL SILT FENCE 3-4 DAYS INSTALL SOIL TRACKING ENTRANCE 5-7 DAYS CLEAR SITE 7-180 DAYS INSTALL PERMITTED IMPROVEMENTS 180-190 DAYS STABILIZE AND TOP OFF SITE	
`+: 4	Tr. 1 Colorina	7.0.40050	
Section 4	Total area of the site:	3.0 ACRES	
Section 5	Total area of the site to be disturbed:	3.0 ACRES	
Section 6	Existing data describing the soil or quality of any stormwater discharge from the site:	SUBJECT PROPERTY CURRENTLY DRAINS IN ALL DIRECTIONS TOWARD EXISTING SWALES AND CANALS. SEE DRAINAGE PLAN ON SHEET 4 OF 13 FOR PROPOSED STORMWATER MANAGEMENT.	
Section 7	Estimate the drainage area size for each discharge point:	3.0 ACRES	
Section 8	Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	LAT = $27^{\circ}22'10.731"$ LONG = $-80^{\circ}23'23.225"$ DISCHARGES TO CITY OF PSL CANAL (SOUTH)	
Section 9	Give a detailed description of all controls, Best Mana implemented at the construction site for each activity disturbing activities section. Provide time frames in NOTE: All controls shall be consistent with perform and stormwater treatment set forth in s. 62-40.432, F Resource Permitting requirements of the Department contained in the State of Florida Erosion and Sedimo FDEP, and any subsequent amendments.	Igement Practices (BMPs) and measures that will be a identified in the intended sequence of major soil which the controls will be implemented. The inance standards for erosion and sediment control of the implemental and it or a Water Management District, and the guidelines	
	SILT FENCE TO BE INSTALLED AND MAINTAINED F LIFE OF THE CONSTRUCTION PHASE PURSUANT TO GUIDELINES INDICATED HEREON. ALL NPDES PROT BE FOLLOWED FOR THE DURATION OF THE PROJE	O THE OCOL TO	
Section 10	Describe all temporary and permanent stabilization permanent seeding, mulching, permanent seeding, gestrips, protection of trees, vegetative preservations, en	otextiles, sod stabilization, vegetative buffer	
	ALL PROPOSED PERVIOUS AREAS TO BE SODDED COMPLETION OF CONSTRUCTION ACTIVITY.	UPON	
Section 11	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.		
	SILT FENCE TO BE INSTALLED AND MAINTAINED F LIFE OF THE CONSTRUCTION PHASE PURSUANT T GUIDELINES INDICATED HEREON. ALL NPDES PROT BE FOLLOWED FOR THE DURATION OF THE PROJE FILTER FABRIC TO BE INSTALLED IN ALL STROM MAINTAINED DURING THE CONSTRUCTION EFFORT.	O THE FOCOL TO FCT. BASINS AND	
Section 12	Describe all sediment basins to be implemented for time. The sediment basins (or an equivalent alternation	areas that will disturb 10 or more acres at one ve) should be able to provide 3,600 cubic feet of	
	storage for each acre drained. Temporary sediment be recommended for drainage areas under 10 acres.		
	storage for each acre drained. Temporary sediment b		

STORMWATER BASINS AND PIPES ARE PROPOSED (PLEASE SEE P, G & D PLAN).

Section 14	Waste disposal, this may include construction debris, chemicals, litter, and sanitary wastes:	All construction materials and debris will be placed in a dumpster and hauled off site to a landfill or other proper disposal site. No materials will be buried on site.	
Section 15	Offsite vehicle tracking from construction entrances/exits:	Off site vehicle tracking of sediments and dust generation will be minimized via a rock construction entrance, street sweeping and the use of water to keep dust down.	
Section 16	The proper application rates of all fertilizers, herbicides and pesticides used at the construction site:	Florida-friendly fertilizers and pesticides will be used at a minimum and in accordance with the manufacturer's suggested application rates.	
Section 17	The storage, application, generation and migration of all toxic substances:	All paints and other chemicals will be stored in a locked covered shed.	
Section 18	Other:	Port-o-lets will be placed away from storm sewer systems, storm inlet(s), surface waters and wetlands. No vehicle maintenance shall be conducted on-site. A washdown area shall be designated at all times and will not be located in any area that will allow for the discharge of polluted runoff.	
Section 19	Provide a detailed description of the maintenance pl assure that they remain in good and effective operati		
	 stringent: Silt fence shall be inspected at least weekly. Any reschiment deposits shall be removed when they reach barrier. Maintenance shall be performed on the rock entraissediment. Inlet(s)/outfalls shall be inspected immediately after to the filter inlets, silt fence, or filter fabric shall be performed on the rock entraissediment. Inlet(s)/outfalls shall be inspected immediately after to the filter inlets, silt fence, or filter fabric shall be performed on the rock entraissed immediately after to the filter inlets, silt fence, or filter fabric shall be performed on the rock entraissed immediately after to the filter inlets, silt fence, or filter fabric shall be performed on the rock entraissed immediately after to the filter inlets, silt fence, or filter fabric shall be performed on the rock entraissed immediately after to the filter inlets, silt fence, or filter fabric shall be performed on the rock entraissed immediately after to the filter inlets, silt fence, or filter fabric shall be performed on the rock entraissed immediately after to the filter inlets, silt fence, or filter fabric shall be performed on the rock entraissed immediately after the filter inlets and the rock entraissed immediately after the filter inlets and the rock entraissed immediately after the filter inlets and the rock entraissed immediately after the filter inlets and the rock entraissed immediately after the rock entraissed i	approximately one-half the height of the nee when any void spaces are full of er each rain event and any required repairs performed immediately. hall be reseeded per manufactures'	
Section 20	Inspections: Describe the inspection and inspection documentation procedures, as required by the FDEP NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.		
	Qualified personnel will inspect all points of dischar not been stabilized, constructed areas and locations BMPs at least once every 7 calendar days and within inches or greater. Where sites have been finally stabionce every month until the Notice of Termination is	where vehicles enter and exit the site, and all 24 hours of the end of a rainfall event that is 0.5 llized, said inspections shall be conducted at least	
Section 21	Identify and describe all sources of non-stormwater Permit for Stormwater Discharge from Large and St	discharges as allowed by the FDEP NPDES Generic mall Construction Activities.	
	NO NON-STORMWATER DISCHARGES ARE EXPECT THIS SITE. INSTALLED AND MAINTAINED SILT FENELIMINATE EXPOSURE OF NON-STORMWATER DISC	CE WILL	
Section 22	All contractor(s) and subcontractor(s) identified in t certification:	he SWPPP must sign the following	

Section 22	Name	Title	Company Name, Address and Phone Number	Date	



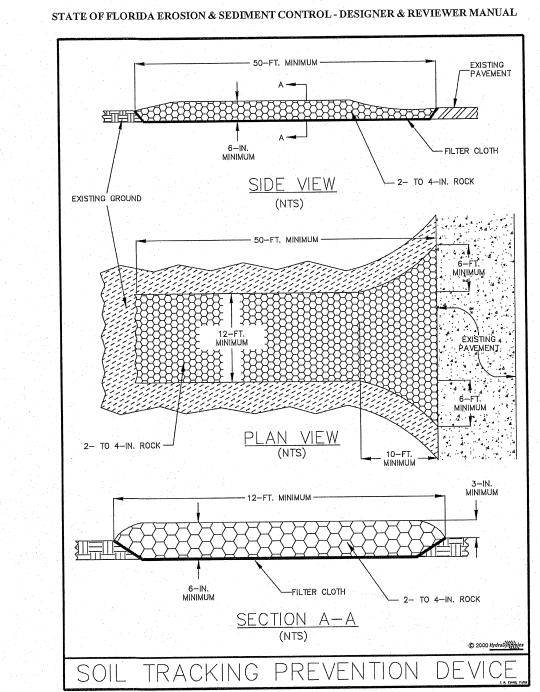


Figure V-52: Illustration of a Soil Tracking Prevention Device

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V-31

PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174 RICHARD M. LADYKO, P.E. #34288 DATE

EROSION CONTROL PLAN

PREPARED FOR

TORINO LAKES PHASE 4

- REVISIONS -BY DATE JOE M 9/30/21 REVISE PAGE TO CITY OF PSL FORMAT

FIELD JPH 3/06/20
CALCS. RCL 6/27/18
DRAWN JOE M 3/06/20
CHECKED RCL 3/09/20
FILE REF. FIELD BK/PG 20.2680-8 GPS/CALC SHEET

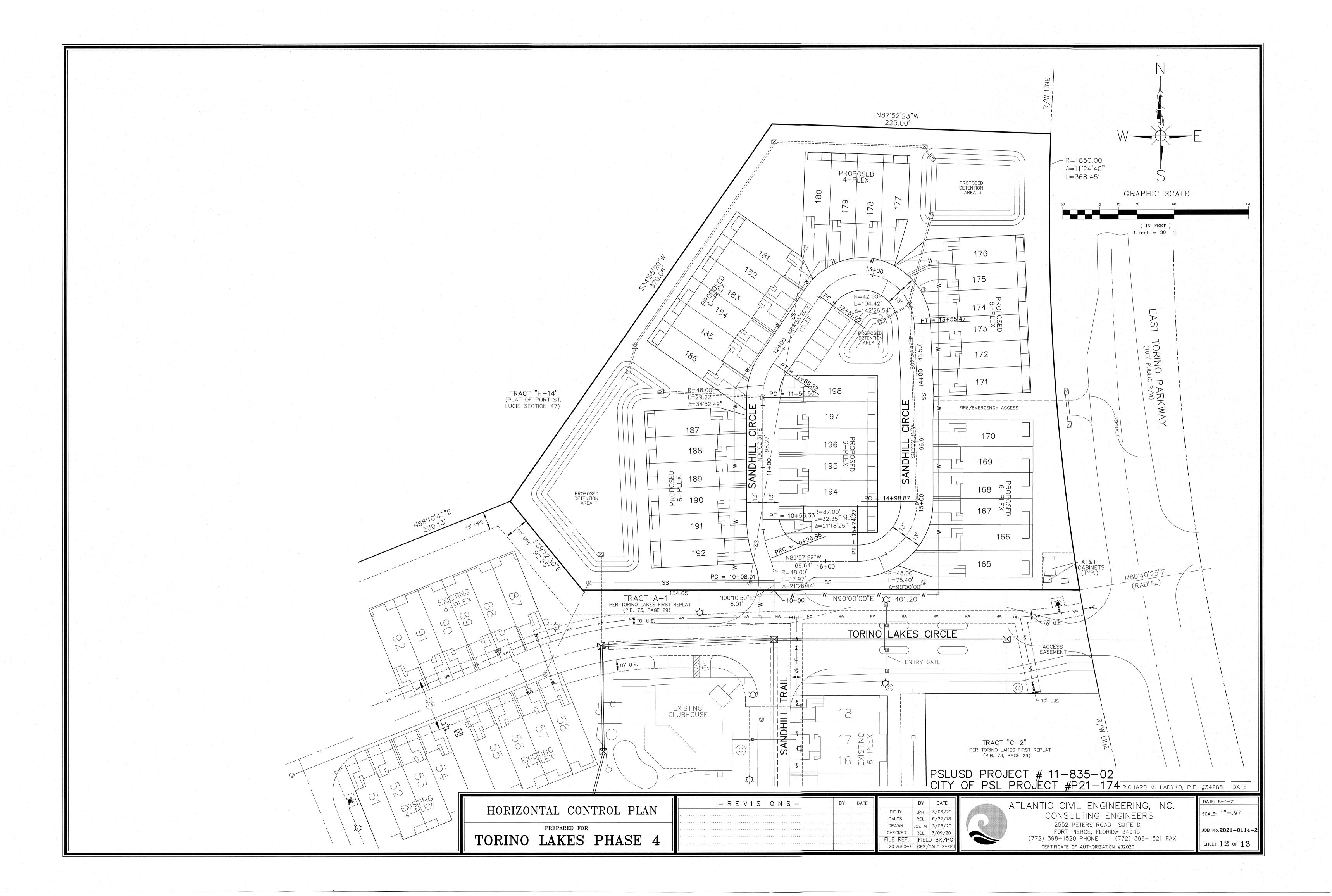




CERTIFICATE OF AUTHORIZATION #32020

DATE: 8-4-21 scale: 1"=30' JOB No. **21.0114-2**

SHEET $11\,$ OF $13\,$



SUPPLEMENTARY CONDITIONS

PERMITS AND LICENSES: CONSTRUCTION PERMITS FOR CERTAIN ELEMENTS OF THE PROJECT WORK HAVE BEEN OBTAINED OR APPLIED FOR BY THE OWNER, AND THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE PROJECT REFLECT CONSTRAINTS AND CONDITIONS IMPOSED BY THESE PERMITS. THE CONTRACTOR SHALL PERFORM HIS WORK AND SHALL CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PERMITS AND APPROVALS, COPIES OF WHICH ARE AVAILABLE FOR HIS REVIEW AND USE FROM THE ENGINEER, UPON REQUEST. THE CONTRACTOR SHALL SECURE ALL WORK PERMITS, APPROVALS OR LICENSES REQUIRED TO PERFORM THE WORK, AND HE SHALL PERFORM THE WORK IN STRICT ACCORDANCE WITH THOSE PERMITS, APPROVALS OR LICENSES.

CONTRACT ISSUES

GENERAL CONDITIONS: UNLESS OTHERWISE STATED IN THESE SUPPLEMENTARY CONDITIONS, THE PROVISIONS OF THE "STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT," REFERENCED ABOVE, SHALL BE USED TO GOVERN ALL ISSUES ADDRESSED IN THOSE GENERAL CONDITIONS FOR THIS PROJECT.

OWNER-ENGINEER RELATIONSHIP: ANY AGREEMENT BETWEEN OWNER AND ENGINEER SHALL NOT BE CONSTRUED TO PROVIDE ANY OBLIGATION FROM THE ENGINEER TO ANY THIRD PARTIES INCLUDING, BUT NOT LIMITED TO, ANY CONTRACTORS (GENERAL OR SUB), NOR TO ANY SUCCESSORS IN TITLE TO THE OWNER. THE RIGHTS UNDER ANY AGREEMENT BETWEEN OWNER AND ENGINEER INURE ONLY TO THOSE TWO PARTIES.

PARTIAL PAYMENTS: PARTIAL PAYMENTS SHALL BE CALCULATED FROM QUANTITIES OF WORK IN PLACE. THESE PAYMENTS SHALL BE BASED ON THE AGREEMENT UNIT PRICES AND WILL BE MADE ON OR ABOUT THE 15TH OF EACH MONTH FOR THE PREVIOUS MONTH'S PROGRESS. THE CONTRACTOR SHALL, AFTER THE FIRST OF EACH MONTH, SUBMIT INVOICES FOR MATERIALS USED AND WORK PERFORMED FOR THE PREVIOUS MONTH. THE ENGINEER WILL REVIEW ALL INVOICES ALONG WITH RECORD DRAWINGS AND FIELD NOTES TO DATE BEFORE PRESENTING THEM TO THE OWNER FOR PAYMENT. TEN PERCENT (10%) OF THE AMOUNT DUE AND PAYABLE TO THE CONTRACTOR CAN BE RETAINED FROM EACH PARTIAL PAYMENT. FINAL PAYMENTS WILL BE ACCOMPLISHED AS PRESCRIBED IN THE AGREEMENT.

THE DRAWINGS

ERRORS OR OMISSIONS IN THE DRAWINGS OR SPECIFICATIONS: PRIOR TO INITIATION OF THE WORK, THE CONTRACTOR SHALL CHECK DIMENSIONS, GRADES, ELEVATIONS AND THE SUMMARY OF ESTIMATED QUANTITIES SHOWN ON THE DRAWINGS TO ASSURE HIMSELF THAT THEY ARE CORRECT AND THAT THE WORK CAN BE ACCOMPLISHED AS INTENDED. THE CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY APPARENT ERROR OR OMISSION WHICH HE MIGHT DISCOVER, BUT SHALL IMMEDIATELY NOTIFY THE ENGINEER OF SUCH DISCOVERY, WHO WILL THEN MAKE SUCH CORRECTIONS AND INTERPRETATIONS AS HE DEEMS NECESSARY FOR REFLECTING THE ACTUAL SPIRIT AND INTENT OF THE DRAWINGS AND SPECIFICATIONS.

SOIL AND SUBSOIL CONDITIONS: IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE

1. PLACE HIS OWN INTERPRETATION ON ANY AND ALL SOIL AND SUBSOIL DATA

PORTRAYED ON THE DRAWINGS OR AVAILABLE INFORMATION.

2. PERFORM HIS OWN SOIL AND SUBSOIL INVESTIGATION TO DETERMINE THE NATURE, CHARACTER, LOCATION AND EXTENT OF ALL SOIL AND SUBSOIL CONDITIONS THAT MAY AFFECT HIS WORK: AND

3. INCLUDE IN HIS CONTRACT PRICE CONSIDERATION FOR ALL WORK NECESSARY TO ASSURE THAT THE SOIL AND SUBSOIL CONDITIONS WILL MEET THE REQUIREMENTS OF THE SPECIFICATIONS AND THE APPLICABLE REGULATIONS OF THE APPLICABLE

THE WORK

MUNICIPALTY.

SPECIFICATIONS.

PRE-CONSTRUCTION CONFERENCE: IMMEDIATELY AFTER THE AGREEMENT HAS BEEN AWARDED, THE ENGINEER SHALL CALL A PRE-CONSTRUCTION CONFERENCE TO BE HELD WITHIN FIFTEEN (15) CALENDAR DAYS AFTER THE AWARD AND PRIOR TO INITIATION OF THE WORK AT A PLACE DESIGNATED TO HIM, TO REVIEW THE CONSTRUCTION ASPECTS OF THE PROJECT. THE MEETING WILL BE BETWEEN THE ENGINEER, OWNER AND THE CONTRACTOR. THE CONTRACTOR SHALL PRESENT HIS TENTATIVE DETAILED WORKING SCHEDULE FOR THE PROJECT SO THAT IT MAY BE REVIEWED BY THE ENGINEER AND OWNER. ADDITIONALLY, IT WILL AFFORD THE CONTRACTOR AN OPPORTUNITY TO HAVE ANY QUESTIONS HE MAY HAVE ON THE WORK CLARIFIED BY THE ENGINEER. NO WORK UNDER THE AGREEMENT SHALL COMMENCE UNTIL AFTER THE NOTICE TO PROCEED HAS BEEN ISSUED.

COMMENCEMENT AND COMPLETION OF THE WORK: THE CONTRACTOR SHALL COMMENCE WORK UNDER THE AGREEMENT WITHIN TEN (10) CALENDAR DAYS AFTER THE DAY OF RECEIPT BY HIM OF THE NOTICE TO PROCEED AND SHALL COMPLETE THE WORK READY FOR USE NOT LATER THAN THE TIME INDICATED IN THE AGREEMENT. THE TIME STATED FOR COMPLETION SHALL INCLUDE FINAL CLEANUP OF THE

ESTIMATED QUANTITIES: THE QUANTITIES ESTIMATED FOR VARIOUS ITEMS OF WORK ARE ONLY ESTIMATES, AND MAY NOT REFLECT ALL THE ITEMS OF WORK OR THE FINAL QUANTITIES NEEDED TO COMPLETE THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DO ALL WORK AND TO FURNISH AND INSTALL ALL IMPROVEMENTS SHOWN ON THE DRAWINGS, WHETHER OR NOT THEY ARE SHOWN IN THE ESTIMATED QUANTITIES, OR WHETHER THE FINAL QUANTITIES ARE MORE OR LESS THAN THOSE ESTIMATED.

HORIZONTAL AND VERTICAL CONTROL: THE CONTRACTOR SHALL CONSTRUCT THE REQUIRED IMPROVEMENTS IN THE LOCATIONS SHOWN ON THE DRAWINGS, AND SHALL USE AS HORIZONTAL CONTROL POINTS THE EXISTING PROPERTY CORNERS AS SHOWN ON THE PLANS. THE HORIZONTAL CONTROL POINTS WERE PROVIDED BY LAVENTURE AND ASSOCIATES, INC., (772-398-6430). AS VERTICAL CONTROL, BENCHMARKS SHALL BE PROVIDED AT THE SITE, FOR USE IN ESTABLISHING THE NECESSARY ELEVATIONS AND GRADES AT THE LOCATIONS SHOWN ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL CONTROL POINTS AND TO REESTABLISH SAID POINTS AS NECESSARY. REMAINING HORIZONTAL AND VERTICAL CONTROL WORK SHALL BE PERFORMED BY THE CONTRACTOR. THE VERTICAL CONTROL POINTS FOR THIS PROJECT WERE PROVIDED BY LAVENTURE AND ASSOCIATES, INC., (772-398-6430).

COORDINATION OF WORK WITH OTHERS: THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OR IMPROVEMENTS OF OTHERS WITH REGARD TO NEW CONSTRUCTION, OR FOR THE NEED OF REMOVAL, RELOCATION OR ALTERATION OF EXISTING FACILITIES. THIS INCLUDES, BUT IS NOT LIMITED TO, THE OWNER, AT&T, FP&L, COUNTY UTILITIES, CENTRAL FLORIDA CELLULAR PHONE COMPANY, THE COUNTY ENGINEERING DEPARTMENT AND THEIR CONTRACTORS, SUBCONTRACTORS OR AGENTS. STANDARDS FOR QUALITY AND WORKMANSHIP: ALL MATERIALS, EQUIPMENT AND SUPPLIES FURNISHED BY THE CONTRACTOR FOR PERMANENT INCORPORATION IN THE WORK SHALL BE NEW AND OF THE QUALITY STANDARDS SPECIFIED. WORKMANSHIP SHALL BE FIRST—CLASS AND THE FINISHED PRODUCT EQUAL TO THE BEST ACCEPTED STANDARDS OF THE TRADE FOR THE CATEGORY OF WORK PERFORMED.

TEMPORARY UTILITIES: ALL ARRANGEMENTS AND COSTS FOR TEMPORARY POWER, WATER AND WASTEWATER FACILITIES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

OBSERVING THE WORK: THE PROGRESS AND QUALITY OF THE WORK WILL BE OBSERVED BY THE OWNER'S ENGINEER OR ENGINEER'S APPOINTED EMPLOYEE. NO OBSERVER IS AUTHORIZED TO CHANGE ANY PROVISIONS OF THE SPECIFICATIONS WITHOUT WRITTEN AUTHORIZATION OF THE OWNER'S ENGINEER, NOR SHALL THE PRESENCE AND/OR THE ABSENCE OF AN OBSERVER RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE DRAWINGS AND

THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 24 HOURS NOTICE PRIOR TO REQUIRED INSPECTIONS, AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO PROPERLY TEST AND INSPECT THE COMPLETED WORK.

IN ADDITION TO THE REQUIREMENTS PREVIOUSLY REFERENCED, THE FOLLOWING MINIMUM CONSTRUCTION CONTROL CHECKPOINTS SHALL BE ADHERED TO, AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR OBSERVATION:

1. PRIOR TO ANY DEVIATION FROM THE DRAWINGS;
2. PRIOR TO ANY BACK FILLING TRENCHES CONTAINING HYDRAULIC CONDUITS, SO THE

JOINTING MAY BE INSPECTED;

3. PRIOR TO TESTING OF ALL HYDRAULIC CONDUITS.

4. PRIOR TO PLACEMENT OF ROADWAY BASE MATERIAL, CONCRETE OR ASPHALTIC CONCRETE.

5. UPON COMPLETION OF CONSTRUCTION FOR FINAL INSPECTION WITH THE CONTRACTOR OR

HIS REPRESENTATIVE.

TESTING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE INDEPENDENT TESTING LABORATORY THE TESTING AND RETESTING

NECESSARY TO ASSURE THE WORK HAS BEEN PERFORMED TO STRICT COMPLIANCE.

NECESSARY TO ASSURE THE WORK HAS BEEN PERFORMED TO STRICT COMPLIANCE WITH THE SPECIFICATIONS. THE COST FOR ALL TESTING SHALL BE BORNE BY THE CONTRACTOR. ANY RETESTS REQUIRED DUE TO FAILURE TO MEET THE MINIMUM REQUIREMENTS SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR. THE NAME OF THE TESTING LABORATORY SHALL BE SUPPLIED AT THE PRE CONSTRUCTION MEETING.

EXISTING UTILITIES AND STRUCTURES: EXISTING UTILITIES, STRUCTURES AND FACILITIES

EXISTING UTILITIES AND STRUCTURES: EXISTING UTILITIES, STRUCTURES AND FACILITIES SHOWN ON THE DRAWINGS WERE LOCATED AS ACCURATELY AS POSSIBLE FROM THE RECORDS EXAMINED. NO GUARANTEE IS MADE THAT ALL EXISTING FACILITIES ARE SHOWN OR THAT THOSE SHOWN ARE ENTIRELY ACCURATE. THE CONTRACTOR SHALL ASSURE HIMSELF OF THE ACTUAL LOCATION OF THE UTILITIES, STRUCTURES OF FACILITIES PRIOR TO PERFORMANCE OF ANY WORK IN THE VICINITY. THE UTILITY COMPANIES OR UTILITY AGENCIES WILL COOPERATE WITH THE CONTRACTOR IN LOCATING UNDERGROUND UTILITIES THAT MAY BE SUBJECT TO DAMAGE OR INTERRUPTION OF SERVICES DURING THE CONTRACTOR'S OPERATIONS. PRIOR TO START OF THE WORK, THE CONTRACTOR SHALL REQUEST THAT EACH UTILITY AGENCY ADVISE HIM OF THE LOCATION OF THEIR FACILITIES IN THE VICINITY. THE OWNER WILL ASSUME NO LIABILITY FOR DAMAGES SUSTAINED OR COSTS INCURRED BECAUSE OF THE CONTRACTOR'S OPERATION IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, OR TO THE TEMPORARY BRACING AND SHORING OF SAME. IN THE EVENT THAT IT IS NECESSARY TO SHORE, BRACE, OR SWING A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHOULD BE CONTACTED AND THEIR PERMISSION SECURED AS TO THE METHOD USED FOR ANY SUCH

RESTORATION OF DAMAGED STRUCTURES OR UTILITIES: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR, REBUILD OR RESTORE TO ITS FORMER CONDITION, ANY AND ALL PORTIONS OF EXISTING UTILITIES, STRUCTURES, EQUIPMENT, APPURTENANCES OR FACILITIES, OTHER THAN THOSE TO BE PAID FOR UNDER THIS CONTRACT, WHICH MAY BE DISTURBED OR DAMAGED DUE TO THIS CONSTRUCTION OPERATION, AT NO COST TO THE

FINAL CLEANUP: UPON COMPLETION OF THE WORK BUT BEFORE FINAL PAYMENT WILL BE MADE, THE CONTRACTOR SHALL CLEAR AND REMOVE FROM THE PROJECT AREA, ALL FALSE WORK, EQUIPMENT, SURPLUS AND DISCARD MATERIALS, RUBBISH AND TEMPORARY STRUCTURES WHICH RESULT FROM THE WORK UNDER THIS AGREEMENT, AND SHALL RESTORE IN AN ACCEPTABLE MANNER ALL PROPERTY WHICH HAS BEEN DAMAGED DURING THE PROSECUTION OF THE WORK.

RECORD DRAWINGS: AFTER COMPLETION OF THE CONTRACT WORK, BUT PRIOR TO SUBMITTAL OF THE REQUEST FOR FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE ALL INFORMATION AND LABOR NEEDED FOR PREPARATION OF FINAL RECORD DRAWINGS FOR SUBMITTAL TO THE OWNER OF THE COMPLETED IMPROVEMENTS. THE INFORMATION SHALL INCLUDE FINAL LOCATION, BY REFERENCE TO COMPLETED IMPROVEMENTS, OR OTHER ACCEPTABLE MEANS, OF ALL UNDERGROUND OR SUBMERGED IMPROVEMENTS, THE ELEVATIONS OF PERTINENT POINTS IN THE DRAINAGE, WATER AND WASTEWATER SYSTEMS, ACTUAL CONSTRUCTED PIPE LENGTHS, SLOPES AND INVERTS, CUTOFF WALL DIMENSIONS AND ELEVATIONS, ALL REVISIONS TO THE ORIGINAL PLANS, AND ALL INFORMATION NECESSARY TO LOCATE AND OPERATE THE IMPROVEMENTS CONSTRUCTED UNDER THIS AGREEMENT. PAYMENT FOR OBTAINING AND PROVIDING THE RECORD DRAWING INFORMATION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES FOR THE VARIOUS ITEMS OF WORK TO WHICH IT IS INCIDENTAL.

THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION, SO THAT THE ENGINEER'S REPRESENTATIVE IS PRESENT AND CAN CONFIRM THE RECORD INFORMATION AS FOLLOWS:

THE FINAL LOCATION, BY REFERENCE TO AT LEAST TWO COMPLETED VISIBLE IMPROVEMENTS OR OTHER PERMANENT POINTS, OF ALL PAVING, DRAINAGE, WATER DISTRIBUTION SYSTEM AND WASTEWATER COLLECTION SYSTEM ELEMENTS, AND SHALL INCLUDE ELEVATIONS OF PERTINENT POINTS IN THE PAVEMENT AND DRAINAGE IMPROVEMENTS, ALL REVISIONS TO THE ORIGINAL PLANS, VERIFICATION OF ALL DESIGN DIMENSIONS, ELEVATIONS, PIPE SLOPES, PIPE LENGTHS AND ALL OTHER INFORMATION NECESSARY TO HORIZONTALLY AND VERTICALLY LOCATE AND OPERATE THE IMPROVEMENTS CONSTRUCTED UNDER THIS CONTRACT. INFORMATION TO BE SHOWN FOR THE WATER DISTRIBUTION SYSTEM INCLUDES THE LOCATION SERVICE TERMINALS, FOR THE WASTEWATER COLLECTION SYSTEM INCLUDES THE LOCATION OF ALL SERVICE TERMINALS, AND THE LOCATION OF ALL ELECTRICAL AND COMMUNICATION CONDUIT.

DRAWINGS SHALL INCLUDE:

F. MARK ALL BSP'S ON PLANS

A. ANY CHANGES OR VERIFICATIONS GET MARKED

B. MARK OUT ALL "PROPOSED" OR "CONSTRUCTS"
C. CHANGES TO LOCATIONS OF PIPE, VALVES, FITTINGS OR MANHOLES, ETC.

D. DRAW IN A DETAIL BOX OF ANY SUBSTANTIAL CHANGES
E. MARK LOCATIONS AND FOOTAGE OF ALL LATERALS FROM THE DOWNSTREAM MANHOLE

GUARANTEE: ALL MATERIALS AND THE INSTALLATION THEREOF WHICH ARE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNDER THE TERMS OF THE AGREEMENT, SHALL BE GUARANTEED BY THE CONTRACTOR AGAINST DEFECTIVE WORKMANSHIP, MECHANICAL AND PHYSICAL DEFECTS, LEAKAGE, BREAKAGE, AND OTHER DAMAGES AND FAILURE UNDER NORMAL OPERATION FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL PAYMENT, SAID DATE TO CONSTITUTE THE COMMENCEMENT OF THE ONE (1) YEAR WARRANTY PERIOD.

ALL MATERIALS AND INSTALLATIONS PROVING TO BE DEFECTIVE WITHIN THE SPECIFIED PERIOD OF THE GUARANTEE SHALL BE REPLACED, WITHOUT COST TO THE OWNER, BY THE CONTRACTOR. THE PERIOD OF GUARANTEE OF EACH SUCH REPLACEMENT SHALL BE FROM AND AFTER THE DATE OF INSTALLATION THEREOF.

MATERIALS, CONSTRUCTION METHODS, TESTING AND TOLERANCES FOR ALL WORK SHALL BER IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT PROVISION SHALL APPLY.

1. MOBILIZATION: THE WORK SPECIFIED IN THIS SECTION CONSISTS OF THE PREPARATORY WORK AND OPERATIONS IN MOBILIZING FOR BEGINNING WORK ON THE PROJECT, INCLUDING, BUT NOT LIMITED TO, THOSE OPERATIONS NECESARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES AND INCIDENTALS TO THE PROJECT SITE, AND FOR THE ESTABLISHMENT OF TEMPORARY OFFICES, BUILDINGS, SAFETY EQUIPMENT AND FIRST AID SUPPLIES, SANITARY AND OTHER FACILITIES, AS REQUIRED BY THESE SPECIFICATIONS, THE SPECIAL PROVISIONS, AND STATE AND LOCAL LAWS AND REGULATIONS. ALL COSTS FOR BONDS, PERMITS AND ANY REQUIRED INSURANCE, AND ANY OTHER PRECONSTRUCTION EXPENSE NECESSARY FOR THE START OF THE WORK, AS WELL AS THE COST OF THE REMOVAL OF THE ABOVE ITEMS, SHALL ALSO BE INCLUDED IN

2. CONSTRUCTION SURVEYING: THE CONTRACTOR SHALL CONSTRUCT THE REQUIRED IMPROVEMENTS AT THE LOCATIONS SHOWN ON THE PLANS. AS OUTLINED IN THE SUPPLEMENTARY CONDITIONS, THE OWNER SHALL PROVIDE BASIC REFERENCE POINTS FOR HORIZONTAL CONTROL AND BENCHMARKS IN THE VICINITY OF WORK. ALL OTHER CONSTRUCTION STAKING FOR BOTH HORIZONTAL AND VERTICAL CONTROL NEEDED BY THE CONTRACTOR FOR CONTROL OF HIS WORK SHALL BE PERFORMED BY THE CONTRACTOR.

3. CLEARING AND GRUBBING: CLEARING AND GRUBBING SHALL BE PERFORMED WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THE PLANS, INCLUDING BUT NOT LIMITED TO, THE AREAS OF NEW SIDEWLAKS, SWALES, POND, ROADWAY AND PARKING PAVEMENT, AND BUILDING AREA IN ACCORDANCE WITH SECTION 110, FDOT SPECIFICATION, AND SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER OBSTRUCTIONS TO A DEPTH OF 18 INCHES BELOW NATURAL GROUND OR DESIGN GRADE, WHICHEVER IS LOWER.

ALL MATERIAL SHALL BE REMOVED FROM THE SITE OF THE PROJECT, AND SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, REGIONAL, STATE, AND FEDERAL LAWS, REGULATIONS, AND ORDINANCES.

4. EARTHWORK AND GRADING: SHALL BE PERFORMED AS REQUIRED TO ATTAIN THE FINAL GRADES, TYPICAL SECTIONS AND ELEVATIONS, AND TO ACCOMPLISH THE OBJECTIVES SHOWN ON THE PLANS FOR THE AREAS TO BE PAVED, SODDED, OR LANDSCAPED. MATERIALS AND CONSTRUCTION METHODS SHALL MEET THE REQUIREMENTS OF SECTION 120 FDOT SPECIFICTIONS.

ANY PLASTIC OR ORGANIC MATERIAL WITHIN 36" OF THE FINISHED GRADE OF THE AREA TO BE PAVED SHALL BE REMOVED AND REPLACED WITH A-3 MATERIAL. EMBANKMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH FDOT SPECIFICATIONS.

ALL CLEAN EXCESS MATERIAL SUITABLE FOR FILL RESULTING FROM THE EXCAVATION SHALL BE INCORPORATED INTO THE PROPOSED WORK, OR SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED ON THE OWNERS PROPERTY AT THE ONSITE LOCATION DESIGNATED BY THE OWNER. ALL UNSUITABLE MATERIAL AND DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE WORK SHALL INCLUDE, BUT NOT LIMITED TO THE FOLLOWING: FINAL GRADING OF THE POND, SWALES, SIDEWALKS, ROADWAY, PARKING LOT, AND FILLING OF EXISTING DITCHES.

5. DRAINAGE IMPROVEMENTS: THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE PROJECT WORK FOR THE DRAINAGE IMPROVEMENTS AT THE LOCATION, SIZE AND TYPE SHOWN ON THE PLANS FOR THE FOLLOWING ITEMS. INCLUDED IN THE UNIT COSTS FOR EACH ITEM SHALL BE THE COSTS ASSOCIATED WITH THE DESIGN AND CONSTRUCTION, BY THE CONTRACTOR, TO COMPLY WITH THE TRENCH SAFETY ACT, LAWS OF FLORIDA, CHAPTER 90-96.

BACKFILL AND COMPACTION OF TRENCHING FOR CULVERT INSTALLATION UNDER THIS SECTION SHALL BE IN ACCORDANCE WITH SECTION 125—8.3, FDOT SPECIFICATIONS. DENSITY TESTS SHALL BE PROVIDED AT THE FOLLOWING VERTICAL LOCATIONS:

TWO TESTS* AT SPRINGLINE (ONE EACH SIDE OF PIPE)
ONE TEST* AT ONE FOOT ABOVE PIPE; AND
ONE TEST* AT ONE FOOT BELOW SUBGRADE OR FINISH GRADE.
* = DENSITY OF AT LEAST 98 % OF MAXIMUM DENSITY AS
DETERMINED BY AASHTO T-180

THE MINIMUM NUMBER OF HORIZONTAL TEST LOCATIONS IS TWO PER CULVERT INSTALLATION, ONE PER 100 LINEAR FEET OF PIPE AND/OR ONE PER 20 FEET OF PAVEMENT CROSSING WHICHEVER IS GREATER. ADDITIONAL TESTS MAY BE REQUIRED AT MORE FREQUENT INTERVALS IF DEEMED NECESSARY.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INDEPENDANT TESTING LABORATORY AND THE TESTING AND RETESTING NECESSARY TO ASSURE THAT THE WORK HAS BEEN PERFORMED IN STRICT COMPLIANCE WITH THESE ACTIONS. COST FOR ALL TESTING SHALL BE BORNE BY THE CONTRACTOR. ANY RETEST REQUIRED DUE TO FAILURE TO MEET THE MINIMUM REQUIREMENTS ABOVE SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR.

A. STORM SEWER PIPE: CONSTRUCTION METHODS FOR DRAINAGE CULVERTS SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 125 AND 430, FDOT SPECIFICATIONS.

REINFORCED CONCRETE PIPE (RCP): MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 941, FDOT SPECIFICATIONS FOR STANDARD CONCRETE PIPE AND SECTION 942, FDOT SPECIFICATIONS FOR GASKETS.

B. STORM INLETS: THE MATERIALS AND CONSTRUCTION METHODS FOR STORM INLETS AND GRATES SHALL CONFORM TO SECTION 425, FDOT SPECIFICATIONS.

TYPE "C" AND "E" INLETS SHALL BE PER FDOT INDEX NO. 232. INLETS AND PAVED AREAS SHALL HAVE STEEL GRATES SUITABLE FOR HEAVY TRAFFIC AND BICYCLES. CAST IRON TRAFFIC GRATES IN ALL OTHER AREAS.

C. CONCRETE CURBING: THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS TO CONSTRUCT THE CONCRETE CURBING IN THE LOCATIONS SHOWN ON THE PLANS. ALL CURBING SHALL BE CONSTRUCTED PER FDOT INDEX NO. 300. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO SECTION 520, FDOT SPECIFICATIONS. SUBGRADE UNDER ALL CURB AND GUTTER SHALL HAVE A MINIMUM LBR OF 40.

6. PAVEMENT IMPROVEMENTS: THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE ITEMS OF WORK FOR PAVING IMPROVEMENTS UNDER THIS SECTION AT THE LOCATIONS AND TO THE EXTENT SHOWN ON THE PLANS. PAVEMENT RESTORATION SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS, AND IN ACCORDANCE WITH THESE SPECIFICATIONS, FDOT, AND COUNTY

A. STABILIZED SUBGRADE SHALL HAVE A MINIMUM LBR RATIO OF 40, AND MINIMUM DENSITIES SHALL BE 98% OF MAXIMUM AS DETERMINED BY THE AASHTO T-180 METHOD C. MATERIALS AND CONSTRUCTION METHODS SHALL BE FURNISHED BY THE CONTRACTOR, AND CONFORM TO SECTION 160, FDOT SPECIFICATIONS FOR TYPE C STABILIZATION AND PAID FOR AS PART OF THE WORK UNDER THIS SECTION. COMPACTED SUBGRADE WITHIN THE LIMITS SHOWN FOR THE PROPOSED PAVEMENT SHALL BE 12 INCHES IN THICKNESS. STABILIZED SUBGRADE SHALL EXTEND 6 INCHES BEYOND THE EDGE OF THE BASE COURSE.

7. CONCRETE NOTES: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE INDEPENDENT TESTING LABORATORY DESIGNATED BY THE OWNER, THE TESTING AND RETESTING NECESSARY TO ASSURE THE WORK HAS BEEN PERFORMED TO STRICT COMPLIANCE WITH THE SPECIFICATIONS. COST FOR THE INITIAL TESTING SHALL BE BORNE BY THE CONTRACTOR. ANY RETESTS REQUIRED DUE TO FAILURE TO MEET THE MINIMUM REQUIREMENTS SHALL BE PERFORMED AT THE EXPENSE OF THE CONTRACTOR. MINIMUM TESTING DETERMINATION FOR ALL ITEMS OF WORK UNDER CONCRETE AREA SHALL BE AS FOLLOWS:

ITEM	BEARING VALUE	DENSITY	THICKNES
SUBGRADE	500*	500*	100*
CONCRETE	• • • • • • • • • • • • • • • • • • •		200*

*=MAXIMUM SPACING SHOWN IN FEET. ALL TESTING SHALL BE TAKEN IN A STAGGERED SAMPLING PATTERN FROM A POINT 12 INCHES INSIDE THE FIRST EDGE, TO THE CENTER, TO A POINT 12 INCHES INSIDE THE RIGHT EDGE OF THE

ADDITIONAL TESTS MAY BE REQUIRED FOR THE DRIVEWAY CONSTRUCTION OR AT MORE FREQUENT INTERVALS AS DEEMED NECESSARY BY THE ENGINEER.

8. PAVEMENT MARKINGS: THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND LABOR REQUIRED TO COMPLETE THE PROJECT WORK IN THIS SECTION. MATERIALS AND CONSTRUCTION METHODS FOR APPLYING PAINTED TRAFFIC STRIPES AND MARKINGS, COMPLETE WITH REFLECTIVE GLASS SPHERES, SHALL CONFORM TO THE REQUIREMENTS OF SECTION 710, FDOT SPECIFICATIONS. TRAFFIC PAINT SHALL BE APPLIED IN ALL LOCATIONS SHOWN ON THE PLANS

9. SIGNAGE: THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NEEDED, INCLUDING ALL SUPPORTING ELEMENTS, TO INSTALL SIGNS AT THE LOCATIONS SHOWN ON THE PLANS. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO SECTION 700, FDOT SPECIFICATIONS, STOP SIGNS ARE TO BE HIGH INTENSITY REFERENCE PER FDOT STANDARDS, COUNTY SPECIFICATIONS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

10. EROSION CONTROL: THE CONTRACTOR SHALL TAKE SUFFICIENT PRECAUTIONS TO PREVENT WATER POLLUTION WITH

10. EROSION CONTROL: THE CONTRACTOR SHALL TAKE SUFFICIENT PRECAUTIONS TO PREVENT WATER POLLUTION WITH AQUATIC WEEDS, FUELS, OILS, BITUMINOUS, CALCIUM CHLORIDE OR OTHER HARMFUL MATERIALS. ALSO, HE SHALL CONDUCT AND SCHEDULE HIS OPERATIONS SO AS TO AVOID POLLUTION OR SILTATION OF WATER BODIES OR TO INTERFERE WITH INDIGENOUS WILDLIFE. THE INSTALLATION OF TEMPORARY EROSION AND POLLUTION CONTROL FEATURES SHALL BE COORDINATED WITH THE CONSTRUCTION OF THE PERMANENT EROSION CONTROL FEATURES TO THE EXTENT NECESSARY TO ASSURE ECONOMICAL, EFFECTIVE AND CONTINUOUS CONTROL OF EROSION AND WATER POLLUTION THROUGHOUT THE LIFE OF THE CONTRACT. ANY EROSION OR SHOALING SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSES.

DUE TO UNANTICIPATED CONDITIONS, THE ENGINEER MAY DIRECT THE USE OF CONTROL FEATURES OR METHODS OTHER THAN THOSE INCLUDED IN THE ORIGINAL CONTRACT. IN SUCH EVENT THIS ADDITIONAL WORK WILL BE PAID FOR AS UNFORESEEABLE WORK.

ARGENTINE BAHIA SOD SHALL BE PROVIDED AS SHOWN ON THE PLANS, INCLUDING BUT NOT LIMITED TO, ALL DISTURBED AREAS. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE REQUIREMENTS FOUND IN LANDSCAPE ARCHITECT'S SPECIFICATIONS.

11. POLLUTION CONTROL: WATER POLLUTION AND TURBIDITY CONTROL SHALL BE REQUIRED BY THE CONTRACTOR IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL REGULATION STANDARDS, LOCAL REGULATIONS AND SECTION 104, FDOT REQUIREMENTS INCLUDING BUT NOT LIMITED TO ONE OR MORE OF THE FOLLOWING OPTIONS; SHEETPILE OR EARTH COFFERDAM, HAY BALES, SEDIMENT BASIN, SILT FENCE OR TURBIDITY BARRIER. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN CANALS, OR IN A POSITION CLOSE ENOUGH THERETO, TO BE WASHED AWAY BY HIGH WATER OR RUNGEF.

WATER DISTRIBUTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE LOCAL UTILITIES AUTHORITY.

2. WATER MAIN WHERE SPECIFIED AS POLYVINYL CHLORIDE (PVC) SHALL CONFORM TO AWWA C-900 OR C-905, PRESSURE CLASS 150, DR (18). WATER MAIN WHERE SPECIFIED AS POLYETHYLENE (PE) SHALL CONFORM TO AWWA C-901 OR C-906, STANDARD CODE DESIGNATION PE3408, PIPE CLASS 200, DIMENSION RATIO (DR) 9.

3. WATER MAIN, WHERE SPECIFIED AS DUCTILE IRON PIPE , SHALL CONFORM TO ANSI A-21.51 OR AWWA C-151, AND SHALL BE PRESSURE CLASS 250 (MINIMUM).

4. POLYVINYL CHLORIDE WATER MAIN SHALL BE BLUE IN COLOR OR WHITE IN COLOR.

THE USE OF IDENTIFICATION TAPE ATTACHED TO THE TOP OF THE PIPE MAY BE USED IN LIEU OF MARKING ON THE PIPE, ALSO DIP PIPE SHALL REQUIRE THE USE OF IDENTIFICATION TAPE

AND THIN WIRE

5. FITTINGS SHALL BE CAST OR DUCTILE IRON, CONFORMING TO AWWA C-110 AND ANSI

A21.11, CLASS 250 MINIMUM, CEMENT LINED, AND SEAL COATED.

6. GATE VALVES SHALL BE MUELLER RESILIENT SEAT, KENNDY KEN—SEAL, AMERICAN, CLOW, OR APPROVED EQUAL. VALVES SHALL CONFORM TO AWWA C—509.

7. WATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH LOCAL UTILITY DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY UTILITY ENGINEERING AND THE CITY, COUNTY, FDOT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THAN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.

8. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE UTILITY ENGINEER AND CITY/COUNTY/FDOT ENGINEER.

9. THE CONTRACTOR SHALL NOTIFY UTILITY ENGINEERING AND CITY/COUNTY/FDOT ENGINEERING 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

10. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, UTILITY AND CITY/

COUNTY/FDOT ENGINEER SHALL BE MANDATORY PRIOR TO COMMENCEMENT OF CONSTRUCTION.

OR IN PVC CASING.

11. TRAFFIC CONTROL, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF OF TRANSPORTATION STANDARDS AND APPROVED BY THE COUNTY ENGINEER.

12. MINIMUM COVER SHALL BE 36 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND CITY/COUNTY/FDOT ENGINEER. PIPES WITH COVER LESS THAN 30 INCHES SHALL BE CONSTRUCTED OF DUCTILE IRON

13. DISTURBED AREAS SHALL BE RESTORED IN CONFORMANCE WITH THE APPLICABLE GOVERNING AGENCY REQUIREMENTS.

14. EXISTING UTILITIES AND DRAINAGE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND PROTECTED BY THE CONTRACTOR.

15. WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AWWA C-651 FOR DISINFECTION.

WATER DISTRIBUTION NOTES CONTINUED

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING UTILITIES AND DRAINAGE.

17. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER INCLUDING LOCATIONS OF VALVES, FITTINGS, SERVICE CONNECTIONS, BLOWOFFS, AIR RELEASE VALVES, AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT, AS REQUIRED BY THE UTILITIES ENGINEER.

18. THE CONTRACTOR SHALL TAP EXISTING LINES UNDER THE SUPERVISION OF THE UTILITIES PROVIDER ONLY AFTER TESTING AND DISINFECTION HAS BEEN COMPLETED AND APPROVED ON THE TAPPING VALVE AND SLEEVE

19. WATER MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN MULTI STRANDED WIRE (BLUE IN COLOR) AND IDENTIFICATION TAPE WITH "WATER" MARKED ON TAPE, PERMANENTLY ATTACHED TO THE TOP OF THE WATER MAIN IN ACCORDANCE WITH THE LOCAL UTILITIES SPECIFICATIONS.

20. SERVICE TAPS SHALL BE PLACED APPROXIMATELY TEN FEET AWAY FROM GATE VALVES, AS SHOWN, FOR TESTING. FOLLOWING TESTING AND STERILIZATION OF WATER LINE. CONTRACTOR SHALL PLACE A BRASS PLUG IN CORPORATION STOPS AND CORP STOPS SHALL BE REMOVED FROM TESTING LOCATIONS.

21. MECHANICAL RESTRAINTS TO BE USED ON ALL FITTINGS AND PLACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL UTILITY REQUIREMENTS.

22. ALL MAINS SHALL BE TESTED AT A MINIMUM OF 150 PSI. TESTING METHODS SHALL CONFORM TO AWWA C-600. - 2 HR MINIMUM TEST

SD(P) 1/2

WILL BE PLACED IN BRANCH LINES AND SEQUENTIALLY SWABBED AND FLUSHED

L= LEAKAGE IN GPH

S= LENGTH OF PIPE IN FEET

D= PIPE DIAMETER IN INCHES
P= TESTING PRESSURE IN PSI

23. PRIOR TO ANY TESTING, ALL MAINS 6" IN DIA. AND LARGER SHALL HAVE A LINE SIZE SWAB PASSED THRU THE ENTIRE LENGTH OF THE LINE. NOTE: SWAB SHOULD BE PLACED IN 1st. JOINT OF NEW LINE. END OF MAIN SHOULD BE "TURNED UP" AT 45% AND EXTENDED SO THAT SWABBING AND A FULL BORE FLUSH CAN BE ACCOMPLISHED. BLOW-OFF ASSY CAN THEN BE PLACED. WHERE LINES BRANCH, SWABS

24. A MINIMUM SIX FEET AND PREFERABLY TEN FEET HORIZONTAL SEPERATION SHALL BE MAIINTAINED BETWEEN THE WATER MAIN AND ANY WASTEWATER LINES. 12 INCHES MINIMUM VERTICAL SEPARATION IF WATER MAIN IS OVER WASTEWATER AND 18 INCHES IF WATER MAIN IS UNDER SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND ANY WASTWATER LINES. THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE OR STRUCTURE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.

25. WHERE A WATER MAIN IS TO BE INSTALLED BELOW A STORM DRAIN PIPE, A MINIMUM OF 6 INCHES OF VERTICAL CLEARANCE BETWEEN PIPES SHALL BE CONSTRUCTED OF DIP AT THE CROSSING, AND SHALL

BE MECHANICALLY RESTRAINED WITHIN 20 FEET OF THE CROSSING.

26. CONTRACTOR SHALL COMPLY WITH FLORIDA TRENCH SAFETY ACT REQUIREMENTS

WASTEWATER CONSTRUCTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE LOCAL UTILITIES AUTHORITY.

2. GRAVITY SEWER MAIN SHALL BE POLYVINYL CHLORIDE SDR—35, GREEN OR WHITE IN COLOR, GRAVITY SEWER MAIN SHALL HAVE LOCATOR TAPE WITH "SEWER" MARKED ON TAPE AND SHALL CONFORM TO ASTM D—3034.

3. THE MANHOLE BASE SHALL BE SET ON A FIRM, DRY AND STABLE OR COMPACTED BASE FOUNDATION. IF NECESSARY, THE CONTRACTOR SHALL UTILIZE ROCK TO PROVIDE

A FIRM AND SUITABLE MANHOLE BASE FOUNDATION.

4. WASTEWATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH LOCAL UTILITY DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY UTILITY ENGINEERING AND THE COUNTY ENGINEERING DEPARTMENT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIRE—MENTS SHALL NOT BE LESS THEN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE

AGENCY.

5. A 1% MINIMUM SLOPE SHALL BE MAINTAINED ON ALL SANITARY SERVICE LATERALS.

6. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER CONSISITING OF PIPE SIZES, LOCATION OF SERVICE TEE WYES, DIAMETER OF SERVICES, LOCATION OF ANY FITTINGS, FINAL RIM AND INVERT ELEVATION OF ALL MANHOLES AND ANY OTHER PERTINENT

INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT.

7. MAINTAIN SIX FEET AND PREFERABLY 10 FEET HORIZONTAL DISTANCE BETWEEN WATER MAINS

AND SEWER MAINS AS A MINIMUM.

8. WASTEWATER FORCE MAINS, WASTEWATER COLLECTION LINES, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE SHALL BE PROVIDED WHENEVER POSSIBLE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER PIPE JOINTS ARE EQUIDISTANCE FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES

9. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, UTILITY AND COUNTY/FDOT SHALL BE MANDATORY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

10. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL

FROM UTILITY/CITY/COUNTY/FDOT ENGINEER.

11. TRAFFIC CONTROL, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT

OF TRANSPORTATION STANDARDS.

12. CONTRACTOR SHALL NOTIFY THE LOCAL UTILITIES AUTHORITY 48 HOURS PRIOR TO

COMMMENCING CONSTRUCTION.

13. WASTEWATER FORCE MAIN SHALL BE POLYVINYL CHLORIDE CONFORMING TO AWWA C-900,

AND SHALL BE CLASS 150, DR-18.

14. WASTEWATER FORCE MAIN SHALL BE GREEN IN COLOR OR WHITE IN COLOR. WASTEWATER

FORCE MAIN SHALL HAVE THHN WIRE & LOCATOR TAPE WITH "SEWER" MARKED ON TAPE.

OF THE PIPE.

15. FITTINGS SHALL BE CAST OR DUCTILE IRON, CONFORMING TO AWWA C-110

TAPE MARKED "SEWER" ON TAPE IN ACCORDANCE WITH FPUA SPECIFICATIONS.

AND ANSI A21.11, CLASS 250 MINIMUM, INTERIOR POLYLINED, AND SEAL COATED.

16. WASTEWATER FORCE MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN
WIRE (GREEN IN COLOR) PERMANENTLY ATTACHED TO THE TOP OF THE FORCE MAIN WITH LOCATOR

17. MINIMUM COVER SHALL BE 36 INCHES, PIPES WITH COVER LESS THAN 30 INCHES SHALL REQUIRE PRIOR APPROVAL OF THE UTILITIES ENGINEER AND SHALL BE CONSTRUCTED OF DUCTILE

18. EACH SERVICE LATERAL WILL BE MARKED WITH A LOCATOR BALL AS MANUFACTURED BY 3M CORPORATION, OR APPROVED EQUAL AS REQUIRED BY UTILITY ENGINEER.

19. ALL MANHOLES SHALL HAVE SEWER RAIN GUARDS INSTALLED AS REQUIRED BY UTILITY ENGINEER. 20. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

CONFLICTING SPECIFICATIONS
IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH
THESE NOTES AND THE PSLUSD STANDARDS MANUAL,

THE MORE STRINGENT REQUIREMENT APPLIES.

MUST BE MAINTAINED AT ALL CROSSINGS

1-800-432-4770
SUNSHINE STATE ONE CALL
OF FLORIDA, INC
UNDERGROUND UTILITIES NOTIFICATION CENTER

PSLUSD PROJECT # 11-835-02 CITY OF PSL PROJECT #P21-174

GENERAL NOTES

TORINO LAKES PHASE 4

- R E V I S I O N S
ADD CONFLICTING SPECIFATIONS NOTE

JOE M 9/30/21

DRAWN

DESIGNED

CHECKED

QA/QC

SURVEY REF. DRAWING NAM



ATLANTIC CIVIL ENGINEERING, INC. CONSULTING ENGINEERS

2552 PETERS ROAD SUITE D
FORT PIERCE, FLORIDA 34945
(772) 398-1520 PHONE (772) 398-1521 FAX
CERTIFICATE OF AUTHORIZATION #32020

DATE: 8-4-21

HORIZ SCALE: 1"=40'

VERT SCALE: N/A

JOB No. 2021.0114-2

SHEET 13 OF 13

RICHARD M. LADYKO, P.E. #34288

DATE