EMBRY-RIDDLE AERONAU

GENERAL NOTES

- 1. EXISTING ZONING PD-G
- 2. UNDERGROUND UTILITY LOCATIONS AS FIELD MARKED BY THE FOLLOWING COMPANIES OR THEIR REPRESENTATIVES: FLORIDA POWER & LIGHT COMPANY 3000 SPRUCE CREEK ROAD PORT ORANGE, FL. 32129 (386) 322–3425 AT&T 900 N. NOVA ROAD DAYTONA BEACH, FL. 32117 (386) 257-7950 1475 S. NOVA ROAD SPECTRUM

DAYTONA BEACH, FL. 32114 TECO PEOPLES GAS HOLLY HILL, FL. 32117 CITY OF DAYTONA BEACH DAYTONA BEACH, FL. 32114

950 BELLEVUE ROAD

3. LOCATIONS OF EXISTING UTILITIES ARE SHOWN BASED ON AVAILABLE DATA. 4. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK AND TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION (I.E. SHEETING, DE-WATERING, ETC.). CONTRACTOR TO NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES OR CONFLICTS.

(386) 760-9941

(386) 527-8377

(386) 671-8635

1722 RIDGEWOOD AVE

- CONTRACTOR TO COORDINATE DEMOLITION AND CONSTRUCTION WITH ALL PUBLIC AND PRIVATE UTILITY COMPANIES TO AVOID CONFLICTS AND/OR INTERRUPTIONS OF SERVICE. 5. CONTRACTOR TO PROVIDE AS BUILT DRAWINGS OF ALL IMPROVEMENTS
- ON 24" X 36" MYLAR, SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
- 6. THERMOPLASTIC STRIPING AND TRAFFIC CONTROL SIGNAGE TO MEET FDOT AND CITY OF DAYTONA BEACH SPECIFICATIONS. 7. TRAFFIC CONTROL SIGNS TO BE IN ACCORDANCE WITH F.D.O.T. STANDARD
- SPECIFICATIONS . ALL STOP SIGNS, SPEED LIMIT AND STREET SIGNS REQUIRED TO BE PROVIDED BY DEVELOPER TO CITY OF DAYTONA BEACH SPECIFICATIONS. 8. ALL TRAFFIC CONTROL SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES USING 3M BRAND "SCOTCHLIGHT" SHEETING (ENGINEER GRADE) ON MINIMUM 0.080 GAUGE 5052-H38 ALUMINUM BLANKS. ALL STOP SIGNS SHALL BE HIGH INTENSITY 30" OR 36" OCTAGON INSTALLED ON 3" x 12' ROUND ALUMINUM POSTS. ALL WARNING SIGNS SHALL BE 30" x 30".
- 9. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND/OR LICENSES TO COMMENCE CONSTRUCTION.
- 10. ALL CONCRETE SHALL DEVELOP A 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI UNLESS OTHERWISE NOTED.
- 11. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF PLANS, SPECIFICATIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- 12. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION. 13. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE
- ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
- 14. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- 15. "NO CONSTRUCTION ON THE PROPOSED PORTIONS OF THIS PROJECT MAY COMMENCE UNTIL A MANDATORY PRE-CONSTRUCTION MEETING IS HELD WITH THE CITY, AS STATED IN THE APPROVED DEVELOPMENT ORDER FROM THE CITY OF DAYTONA BEACH. ANY CESSATION OF CONTINUOUS ON-GOING CONSTRUCTION ON THIS PROJECT OF 90 DAYS OR MORE SHALL TRIGGER A REQUIREMENT FOR ANOTHER PRE CONSTRUCTION MEETING BE HELD WITH THE CITY PRIOR TO CONTINUATION OF THE CONTINUING CONSTRUCTION."
- 16. PLEASE NOTE THAT THE CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING PAVING, CURBS, SIDEWALKS, SOD, PLANTS, ETC. THAT ARE DAMAGED DURING CONSTRUCTION ACTIVITIES. 17. CONTRACTOR SHALL ENGAGE A QUALIFIED TESTING AND INSPECTION AGENCY TO PERFORM CORE TESTING TO CONFIRM THAT THE INTERIOR CONCRETE
- FLOORS AND EXTERIOR PAVING THICKNESS COMPLIES WITH THE SPECIFICATIONS. CONCRETE SHALL RECEIVE 1 CORE PER 25,000 SF; CAR PARKING STALLS SHALL RECEIVE 1 CORE PER 75 STALLS; HEAVY DUTY ASPHALT CIRCULATION/FIRE LANES SHALL RECEIVE 1 CORE PER EVERY 600 LF.
- 18. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS. NUMBERS SHALL BE IN A COLOR CONTRASTING WITH THE STRUCTURE OR BACKGROUND SURFACE, AND NOT LESS THAN SIX (6) INCHES IN HEIGHT.
- 19. THE ADDRESS NUMBERS SHALL BE AFFIXED HORIZONTALLY IN A CONSPICUOUS PLACE ON THE PRINCIPAL BUILDING SO THAT THE NUMBER IS CLEARLY LEGIBLE FROM THE ROADWAY ON WHICH IT IS ADDRESSED.
- 20. CONTRACTOR SHALL EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED DURING THE BID PROCESS TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL BE REQUIRED TO BE REMOVED/REPLACED FROM SITE.
- UNSUITABLE MATERIALS UNDER UTILITIES, STORM PIPING, STRUCTURES, PAVEMENT, BUILDING PADS, OR HARDSCAPE SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
- THE COST OF OBTAINING THE NECESSARY STATE AND LOCAL BUILDING/SITE PERMITS REQUIRED FOR THE BUILDING CONSTRUCTION AS WELL AS ALL UTILITY TAP FEES SHALL BE PAID BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ALL REPORTING/MONITORING AS REQUIRED BY SJRWMD AND FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS, AND SJRWMD.
- CONTRACTOR SHALL SWEEP AND CLEAN THE PUBLIC ROADWAY DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL CLEAR, STRIP, EXCAVATE, FILL, AND ROUGH AND FINE GRADE THE SITE TO ACCOMPLISH BUILDING CONSTRUCTION AND PROPER STORM WATER DRAINAGE FROM THE SITE. ANY EXCESS CUT AND EXCESS SPOILS AND UNSUITABLE SOILS AND RUBBLE MUST BE REMOVED FROM THE SITE. ALL NECESSARY FILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT TESTING & INSPECTIONS: PLEASE NOTE THAT A FIELD-TESTING AND INSPECTIONS PROGRAM FOR QUALITY

CONTROL DURING THE COURSE OF THE PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL INCLUDE, BUT NOT BE LIMITED TO SOILS, CONCRETE, STRUCTURAL STEEL, FIREPROOFING, WATERPROOFING (INCLUDING ROOFING, CAULKING, GLAZING, ETC.). CONTRACTOR SHALL INSTALL AND MAINTAIN DEWATERING WHERE REQUIRED IN ACCORDANCE WITH

ALL CODES AND LAWS. 21. ALL SIDEWALKS INCLUDING THROUGH DRIVEWAY TO BE EQUAL OR LESS THAN 2% CROSS SLOPE AND MEET ALL OTHER ADA REQUIREMENTS.



PD-G



SOILS/AERIAL MAP 54 - QUARTZIPSAMMENTS, GENTLY SLOPING

PRINT SHO

SITE PLAN DAYTONA BEACH, FLORIDA DEV 2019-095

VICINITY MAP

PARKER MYNCHENBERG **& ASSOCIATES, INC.** PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS 1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117 (386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

	AL UNIV	ERSITY	1 10
	generai inf		S 11 S
			321 321 berg.o
	 SILE INFORMATION: ADDRESS: 95, 917, 919, AND 921 SOUTH CLYDE MORRIS BLVD. DATONA BEACH, FLORIDA 32114 TAY PARCEL NUMBER: 5239-00-00-0900 SCHOR, 39 TONSHIP: 158 TONSHIP: 158 TONSTON CONTROL SFR-5 TONSTON CONTROL SFR-5 TONSTON CONTROL SFR-5 TONSTON CONTROL SFR-5 TONSTON CONTROL UNIVERSITY SOUTH CLYDE MORRIS BLVD. DERY-RIDELE AERONAUTICAL UNIVERSITY SOUTH CLYDE MORRIS BLVD. TONS CONTROL CONTACT: CHRIS HARDESTY, DIRECTOR, UNIVERSITY PLANNING & CONSTRUCTION MANAGEMENT TONSE (386) 226-200 TONSE (386) 233-5056 TONSTON BEACH, FLORIDA 32114 TONSESTY PLANNING & CONSTRUCTION MANAGEMENT, DIRECTOR, UNIVERSITY PLANNING & CONSTRUCTION MANAGEMENT, DIRECTOR, UNIVERSITY PLANNING & CONSTRUCTION MANAGEMENT, DIRECTOR, UNIVERSITY PLANNING & CONSTRUCTION MANAGEMENT, DIRECTOR, CARER MYNCHENBERG P.E. #32645, I.A. #1553 CARER MYNCHENBERG P.E. #20003301 CARER MYNCHENBERG P.E. #32645, I.A. #1553 CARER MYNCHENBERG P.E. #32645, I.A. #1553 CARER MYNCHENBERG P.E. #150, PRESIDENT BARMARI, TEORDARDARD CARER MYNCHENBERG, INC. #10004 FGB, 1001 CARE (386) FG1-5385 CARER (3904 FG, FL 32127 CARER (3904 FG, FL 32127 CARER (3904 FG, FL 32127 CARER (12127C0366 H, DATED FEB, 19, 2014 	PROJECT DESCRIPTION: CONSTRUCTION OF A 7,560 S.F. TWO-STORY PRINT SHOP BUILDING FOR USES THAT ARE ACCESSORY TO ERAU. CONSTRUCTION INCLUDES MODIFICATIONS TO RETENTION POND, DRAINAGE, WATER, SEWER, LANDSCAPE, AND IRRIGATION IMPROVEMENTS. LAND USE TABULATION: OVERALL PROJECT AREA = 5.67 AC. PROJECT MODIFICATION AREA = 1.45 AC. BUILDING COVERAGE: EXISTING BUILDINGS = 10,300 S.F. PROPOSED BUILDINGS = 12,745 S.F. TOTAL = 23,045 S.F. = 9.33% COVERAGE IMPERVIOUS AREA: EXISTING BUILDINGS (FOOTPRINT)10,300 S.F. EXISTING BUILDINGS (FOOTPRINT)	DLE AERONAUTICAL UNIVERSITY PRINT SHOP Aytona Beach * Florida COVER SHEET COVER SHEET COVE
		$154 \text{ STALLS } \times 5/50 = 15$ EXISTING BIKE PARKING = 16	
SHEET	INULX IU UKAWINGS Decodiotiani		
<u>NO.</u> 1	COVER SHEFT		
2=2B	BOUNDARY & TOPOGRAPHIC SURVEY		
3	AS-BUILT SURVEY		
<u>4</u>	DEMOLITION & EROSION CONTROL PLAN		
5	SIIE PLAN CIVII SITE PLAN		
7	UTILITY PLAN		DEV 2019-095
8	LANDSCAPE PLAN		CITY APPROVAL STAMP
9	LANDSCAPE DETAILS		1 of 19
10 	IRRIGATION PLAN		SHEET NO.
12-15	PAVING AND DRAINAGE DETAILS		Date: 6-15-19
16-17	WATER STANDARD DETAILS		SCALE: NONE
18-19	SEWER STANDARD DETAILS		JOB #19-03
	NOTE: NO CONSTRUCTION ON THE PROPOSED PORTIONS OF THIS PROJECT MAY COMMENCE UNTIL A MANDATORY PRE CONSTRUCTION MEETING IS HELD WITH THE CITY, AS STATED IN THE APPROVED DEVELOPMENT ORDER FROM THE CITY OF DAYTONA BEACH. ANY CESSATION OF CONTINUOUS ON-GOING CONSTRUCTION ON THIS PROJECT OF 90 DAYS OR MORE SHALL TRIGGER A REQUIREMENT FOR ANOTHER PRE CONSTRUCTION MEETING BE HELD WITH THE CITY PRIOR TO CONTINUA OF THE CONTINUING CONSTRUCTION.	S TION	SEAL

SURVEYORS NOTES

1. NOTICE: THERE MAY BE ADDITIONAL RESTRICTIONS AND/OR OTHER MATTERS THAT ARE NOT SHOWN ON THIS PLAT OF SURVEY/SKETCH OF DESCRIPTION THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. THIS SURVEY PREPARED WITH THE BENEFIT OF OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY COMMITMENT FILE NO. CM141081, DATED MAY 13, 2014, 5:00 PM.

- 2. DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
- 3. BEARING STRUCTURE BASED ON STATE PLANE GRID, NAD 83 FLORIDA EAST ZONE
- 4. UNDERGROUND FOUNDATIONS, IF ANY, NOT LOCATED.

5. ELEVATIONS REFER TO N.A.V.D. 1988 PER CITY OF DAYTONA BEACH BENCHMARK MONUMENT HPR-139 HAVING A PUBLISHED ELEVATION OF 25.00' (26.18' N.G.V.D. 1929).

6. THIS PROPERTY IS LOCATED IN FLOOD INSURANCE RATE MAP (F.I.R.M.) ZONE X. THIS LOCATION IS DETERMINED BY SCALING FROM F.I.R.M. MAP NO.12127C0366H. MAP EFFECTIVE DATE: FEBRUARY 19, 2014. APPROXIMATE SCALE: 1"= 500'.

7. "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."

8. UNLESS OTHERWISE SHOWN, RECORD DISTANCES AND DIRECTIONS AND FIELD MEASURED DISTANCES AND DIRECTIONS ARE THE SAME.

UTILITY STATEMENT:

THE INACCESSIBLE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY HAVE BEEN LOCATED FROM ABOVE GROUND FIELD UTILITY LOCATIONS PROVIDED BY SUNSHINE NETWORK, TICKET #_____ ON OR ABOUT 8-30-99 AND/OR EXISTING AS-BUILTS DRAWINGS PROVIDED BY THE CLIENT. SLIGER AND ASSOCIATES, INC. (S&A) MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. LIKEWISE S&A DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. ONLY THAT S&A HAS LOCATED THE UTILITIES AS ACCURATELY AS POSSIBLE FROM SAID FIELD LOCATIONS AND/OR AS-BUILTS PROVIDED BY OTHERS. S&A HAS NOT PHYSICALLY LOCATED THE ACTUAL INACCESSIBLE UNDERGROUND UTILITIES, EXCEPT AS SPECIFICALLY NOTED AND DEPICTED ON THIS DRAWING.

w∕ with CM CONCRETE MONUMENT TOB TOP OF BANK TSB TRAFFIC SIGNAL BOX TOE TOE OF SLOPE FH FIRE HYDRANT CLS CENTERLINE OF SWALE WM WATER METER STA STATION LP LIGHT POLE CO CLEANOUT SAN SANITARY ES ELECTRIC SERVICE HDPE HIGH DENSITY POLYETHYLENE PIPE DIP DUCTILE IRON PIPE

VCP VITREOUS CLAY PIPE CV CHECK VALVE

IV IRRIGATION VALVE FP&L CO GA GUY ANCHOR CPP CORRUGATED PLASTIC PIPE NGVD PVC POLYVINYL CHLORIDE Ç DW DRIVEWAY

WATER VALVE

CONC

ABBREVIATIONS CONCRETE CENTRAL ANGLE ILLEG. ILLEGIBLE RADIUS INV INVERT ARC LENGTH SEC SECTION CHORD BEARING TWP TOWNSHIP CHORD DISTANCE RGE RANGE FLORIDA POWER & LIGHT COMPANY R/W RIGHT OF WAY EL ELEVATION NATIONAL GEODETIC VERTICAL DATUM (NR) NON RADIAL USC & GS UNITED STATES COAST AND GEODETIC SURVEY (R) RADIAL CENTERLINE

RES RESIDENCE -FC-BURIED FIBER OPTIC CABLE - T - BURIED TELEPHONE LINE - W - BURIED WATER LINE - F - BURIED ELECTRIC LINE — G — BURIED GAS LINE -TV- BURIED TELEVISION LINE —FM— BURIED FORCE MAIN AERIAL UTILITY LINE —он-PLATTED DIMENSION DEEDED DIMENSION MEASURED DIMENSION CALCULATED DIMENSION N&D NAIL AND DISK RV REUSE VALVE FDOT FLORIDA DEPARTMENT OF TRANSPORTATION REC RECOVERED

IRC IRON ROD & CAP IPC IRON PIPE & CAP MES MITERED END SECTION RCP REINFORCED CONCRETE PIPE CMP CORRUGATED METAL PIPE MH MANHOLE MB MAP BOOK IP IRON PIPE ORB OFFICIAL RECORDS BOOK PG PAGE ID IDENTIFICATION (TYP) TYPICAL

IRON ROD IRON PIPE WITH CAP IRON PIPE FD "X"/CUT IN CONCRETE CONCRETE MONUMENT SIGN TREE EXISTING ELEVATION TELEPHONE MANHOLE SANITARY MANHOLE STORM MANHOLE



LEGAL DESCRIPTION PROVIDED BY CLIENT

THE FOLLOWING LANDS LYING IN VOLUSIA COUNTY, FLORIDA:

A PARCEL OF LAND IN THE SAMUEL WILLIAMS GRANT, SECTION 39, TOWNSHIP 15 SOUTH, RANGE 33 EAST. DESCRIBED AS FOLLOWS: BEGIN AT THE NORTHWEST CORNER OF THE BETHUNE GRANT, SECTION 40, TOWNSHIP 15 SOUTH, RANGE 33 EAST, BEING ON THE SOUTH LINE OF THE SAMUEL WILLIAMS GRANT, SECTION 39, SAID TOWNSHIP AND RANGE AND RUN SOUTH 64 55 25 WEST, ALONG SAID SOUTH LINE OF THE SAMUEL WILLIAMS GRANT, 569.01 FEET; THENCE NORTH 02 09 50 WEST, 542.83 FEET; THENCE NORTH 64 55 25 EAST, 359.04 FEET; THENCE SOUTH 25 22 05 EAST, 500.01 FEET TO THE SOUTH LINE OF SAID SAMUEL WILLIAMS GRANT; THENCE SOUTH 64 55 25 WEST 3.92 FEET TO THE POINT OF BEGINNING: LESS AND EXCEPT A PARCEL OF LAND IN THE SAMUEL WILLIAMS GRANT, SECTION 39, TOWNSHIP 15 SOUTH, RANGE 33 EAST, DESCRIBED AS FOLLOWS: COMMENCE AT THE NORTHWEST CORNER OF THE BETHUNE GRANT, SECTION 40, TOWNSHIP 15 SOUTH, RANGE 33 EAST, BEING ON THE SOUTH LINE OF THE SAMUEL WILLIAMS GRANT, SECTION 39, SAID TOWNSHIP AND RANGE, AND RUN SOUTH 64:55:25" WEST ALONG SAID SOUTH LINE OF THE SAMUEL WILLIAMS GRANT 569.01 FEET: THENCE NORTH 02:09:50 WEST 542.83 FEET: THENCE NORTH 64:55:25 EAST 3 FEET FOR A POINT OF BEGINNING FROM SAID POINT OF BEGINNING CONTINUE NORTH 64:55:25 FAST 553:04 FEFT THENCE SOUTH 25 22 05 EAST 75 FEET; THENCE SOUTH 64 55 25 WEST 585.12 FEET; THENCE NORTH 02 09 50 WEST 81.42 FEET TO THE POINT OF BEGINNING.

A PORTION OF THE SAMUEL WILLIAMS GRANT, BEGINNING AT A POINT ON THE DAYTONA-DELAND ROAD (BELLEVUE ST.) AT THE NORTHWEST CORNER OF THE NEGRO CEMETERY, THENCE IN A SOUTHERLY DIRECTION ALONG THE WEST LINE OF SAID CEMETERY LOT A DISTANCE OF EIGHT HUNDRED TWENTY-FIVE (825) FEET, MORE OR LESS, TO THE SOUTH SIDE OF SAMUEL WILLIAMS GRANT; THENCE WESTERLY ALONG SOUTH LINE OF SAID SAMUEL WILLIAMS GRANT TWO HUNDRED (200) FEET; THENCE NORTHERLY ON A LINE PARALLEL TO SAID WEST LINE OF SAID CEMETERY LOT EIGHT HUNDRED TWENTY-FIVE (825) FEET, MORE OR LESS, TO THE SOUTH SIDE OF SAID DAYTONA-DELAND ROAD TWO HUNDRED (200) FEET TO THE POINT OF BEGINNING, AND BEING IN SECTION 39, TOWNSHIP 15 SOUTH, RANGE 33 EAST. LESS AND EXCEPT A PORTION OF THE SAMUEL WILLIAMS GRANT, SECTION 39, TOWNSHIP 15 SOUTH, RANGE 33 EAST, BEGINNING ON THE DAYTONA-DELAND ROAD (BELLEVUE STREET) AT THE NORTHWEST CORNER OF THE NEGRO CEMETERY; THENCE SOUTH 25:22:05 EAST ALONG THE WEST LINE OF SAID CEMETERY LOT A DISTANCE OF 468.4 FEET; THENCE SOUTH 64'55'25" WEST AND PARALLEL TO THE SOUTH LINE OF SAID GRANT A DISTANCE OF 200 FEET; THENCE NORTH 25 22 05 WEST TO A POINT WHICH IS 200 FEET SOUTH 25 22 05 EAST FROM THE SOUTHERLY RIGHT OF WAY LINE OF SAID DAYTONA-DELAND ROAD: THENCE NORTHEASTERLY AND PARALLEL TO SAID ROAD A DISTANCE OF 150 FEET; THENCE NORTH 25 22 05 WEST 200 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF SAID DAYTONA-DELAND ROAD, THENCE NORTH 60'44'20" EAST ALONG SAID RIGHT OF WAY LINE 50 FEET TO THE POINT OF BEGINNING; AND LESS AND EXCEPT A PORTION OF THE SAMUEL WILLIAMS GRANT, SECTION 39, TOWNSHIP 15 SOUTH, RANGE 33 EAST, BEGINNING ON THE DAYTONA-DELAND ROAD (BELLEVUE STREET) AT A POINT 50 FEET WESTERLY FROM THE NORTHWEST CORNER OF THE NEGRO CEMETERY; THENCE RUN SOUTHERLY PARALLEL TO THE WEST LINE OF SAID CEMETERY 200 FEET; THENCE WESTERLY PARALLEL TO SAID ROAD 150 FEET TO THE WEST LINE OF LANDS DESCRIBED IN DEED RECORDED IN DEED BOOK 396, PAGE 392, VOLUSIA COUNTY PUBLIC RECORDS, THENCE NORTHERLY 200 FEET, THENCE RECORDED IN DEED BOOK 396, PAGE 392, VOLUSIA COUNTY PUBLIC RECORDS, THENCE NORTHERLY 200 FEET, THENCE EASTERLY 150 FEET TO THE POINT OF BEGINNING.

SURVEYORS NOTES

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- 4. UNDERGROUND FOUNDATIONS, IF ANY, NOT LOCATED.

5. ELEVATIONS REFER TO N.A.V.D. 1988 PER CITY OF DAYTONA BEACH BENCHMARK MONUMENT HPR-139 HAVING A PUBLISHED ELEVATION OF 25.00' (26.18' N.G.V.D. 1929).

6. THIS PROPERTY IS LOCATED IN FLOOD INSURANCE RATE MAP (F.I.R.M.) ZONE X. THIS LOCATION IS DETERMINED BY SCALING FROM F.I.R.M. MAP NO.12127C0366H. MAP EFFECTIVE DATE: FEBRUARY 19, 2014. APPROXIMATE SCALE: 1"= 500'.

7. "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."

8. UNLESS OTHERWISE SHOWN, RECORD DISTANCES AND DIRECTIONS AND FIELD MEASURED DISTANCES AND DIRECTIONS ARE THE SAME.

9. REVISED DESCRIPTION 10-29-14

UTILITY STATEMENT:

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_								
	W/	WITH	TC	TOP COVER	CONC	CONCRETE ABB	REVI	ATIONS
	СМ	CONCRETE MONUMENT	WV	WATER VALVE	D		ILLEG	
	TOB	TOP OF BANK	TSB	TRAFFIC SIGNAL BOX	D		ILLLO.	
	TOE	TOE OF SLOPE	FH	FIRE HYDRANT	ĸ	RADIUS	INV	INVERT
	CLS	CENTERLINE OF SWALE	wм	WATER METER	L	ARC LENGTH	SEC	SECTION
	CTA				СВ	CHORD BEARING	TWP	TOWNSHIP
	STA	STATION	LP	LIGHT POLE	СН	CHORD DISTANCE	RGE	RANGE
	CO	CLEANOUT	IV	IRRIGATION VALVE	FP&L CO	FLORIDA POWER &	R/W	RIGHT OF
	SAN	SANITARY	GA	GUY ANCHOR		LIGHT COMPANY		
	ES	ELECTRIC SERVICE	CPP	CORRUGATED PLASTIC PIPE	NGVD	NATIONAL GEODETIC	EL	ELEVATIO
	HDPF	HIGH DENSITY POLYETHYLENE PIPE	DIP	DUCTILE IRON PIPE		VERTICAL DATUM	(NR)	NON RAD
	VCD				USC & GS	UNITED STATES COAST	(R)	RADIAL
	VCP	VIREOUS CLAT PIPE	PVC	POLIVINIL CHLORIDE	ſ	AND GEODETIC SURVET	N&D	NAIL AND
	CV	CHECK VALVE	DW	DRIVEWAY	Ψ	CENTERLINE	RV	REUSE VA

RES RESIDENCE —FC— BURIED FIBER OPTIC CABLE
- T - BURIED TELEPHONE LINE - W - BURIED WATER LINE - E - BURIED ELECTRIC LINE - G - BURIED GAS LINE
—TV — BURIED TELEVISION LINE —FM— BURIED FORCE MAIN
OHAERIAL UTILITY LINE (P) PLATTED DIMENSION
(D) DEEDED DIMENSION (M) MEASURED DIMENSION
(C) CALCULATED DIMENSION
FDOT FLORIDA DEPARTMENT OF TRANSPOR

	IRC IRON ROD & CAP
	IPC IRON PIPE & CAP MES MITERED END SECTION
	RCP REINFORCED CONCRETE PIP CMP CORRUGATED METAL PIPE
	MH MANHOLE
	MB MAP BOOK
	IP IRON PIPE
	ORB OFFICIAL RECORDS BOOK
	PG PAGE
	ID IDENTIFICATION
	(TYP) TYPICAL
TATION	REC RECOVERED

LEGEND IRON ROD WITH CAP IRON ROD IRON PIPE WITH CAP ۲ IRON PIPF Ø FD "X"/CUT IN CONCRETE \diamond CONCRETE MONUMENT **©ICV** IRRIGATION CONTROL VALVE &FMV FORCE MAIN VALVE ⊗WV WATER VALVE ⊠WM WATER METER 💢 FIRE HYDRANT ØFOB FIBER OPTIC MARKER ØTB TELEPHONE BOX ⊠TSB TRAFFIC SIGNAL BOX ELECTRIC BOX ▲TV CABLE TELEVISION BOX ⊠MB MAIL BOX ¢LP LIGHT POLE UTILITY POLE ©CO CLEAN OUT SIGN -0-TREE ~ 0 00x EXISTING ELEVATION TELEPHONE MANHOLE SANITARY MANHOLE STORM MANHOLE

SURVEYORS NOTES

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8. UNLESS OTHERWISE SHOWN, RECORD DISTANCES AND DIRECTIONS AND FIELD MEASURED DISTANCES AND DIRECTIONS ARE THE SAME.

UTILITY STATEMENT:

THE INACCESSIBLE UNDERGROUND UTILITIES SHOWN ON THIS SURVEY HAVE BEEN LOCATED FROM ABOVE GROUND FIELD UTILITY LOCATIONS PROVIDED BY SUNSHINE NETWORK, TICKET #_____ ON OR ABOUT 8-30-99 AND/OR EXISTING AS-BUILTS DRAWINGS PROVIDED BY THE CLIENT. SLIGER AND ASSOCIATES, INC. (S&A) MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SÈRVICE OR ABANDONED. LIKEWISE S&A DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. ONLY THAT S&A HAS LOCATED THE UTILITIES AS ACCURATELY AS POSSIBLE FROM SAID FIELD LOCATIONS AND/OR AS-BUILTS PROVIDED BY OTHERS. S&A HAS NOT PHYSICALLY LOCATED THE ACTUAL INACCESSIBLE UNDERGROUND UTILITIES, EXCEPT AS SPECIFICALLY NOTED AND DEPICTED ON THIS DRAWING.

W/ WITH CM CONCRETE MONUMENT WV WATER VALVE TOB TOP OF BANK TSB TRAFFIC SIGNAL BOX TOE TOE OF SLOPE FH FIRE HYDRANT CLS CENTERLINE OF SWALE WM WATER METER STA STATION CO CLEANOUT SAN SANITARY ES ELECTRIC SERVICE HDPE HIGH DENSITY POLYETHYLENE PIPE DIP DUCTILE IRON PIPE

LP LIGHT POLE IV IRRIGATION VALVE GA GUY ANCHOR VCP VITREOUS CLAY PIPE PVC POLYVINYL CHLORIDE CV CHECK VALVE DW DRIVEWAY

TOP COVER

FP&L CO CPP CORRUGATED PLASTIC PIPE NGVD USC & GS UNITED STATES COAST AND GEODETIC SURVEY CENTERLINE

CONC

ABBREVIATIONS CONCRETE CENTRAL ANGLE ILLEG. ILLEGIBLE RADIUS INV INVERT SEC SECTION ARC LENGTH CHORD BEARING TWP TOWNSHIP CHORD DISTANCE RGE RANGE FLORIDA POWER & LIGHT COMPANY R/W RIGHT OF WAY EL ELEVATION NATIONAL GEODETIC VERTICAL DATUM (NR) NON RADIAL (R) RADIAL

RES RESIDENCE -FC- BURIED FIBER OPTIC CABLE - T - BURIED TELEPHONE LINE - W - BURIED WATER LINE - F - BURIED ELECTRIC LINE — G — BURIED GAS LINE -TV- BURIED TELEVISION LINE —FM— BURIED FORCE MAIN AERIAL UTILITY LINE PLATTED DIMENSION —он– DEEDED DIMENSION MEASURED DIMENSION CALCULATED DIMENSION N&D NAIL AND DISK RV REUSE VALVE FDOT FLORIDA DEPARTMENT OF TRANSPORTATION REC RECOVERED

IRC IRON ROD & CAP IPC IRON PIPE & CAP MES MITERED END SECTION MH MANHOLE MB MAP BOOK IP IRON PIPE PG PAGE ID IDENTIFICATION (TYP) TYPICAL

IRON ROD IRON PIPE WITH CAP IRON PIPE FD "X"/CUT IN CONCRETE CONCRETE MONUMENT SIGN TREE EXISTING ELEVATION TELEPHONE MANHOLE SANITARY MANHOLE STORM MANHOLE

\ERAU\ERAU - Print Shop - 19-03\Drawings\0000-5P(20).dwg, 3/12/2020 12:43:36 PM, DWG To PD

1. NEVER PLACE ANY SOIL OVER THE ROOT BALL. THE ROOT BALL SHOULD BE POSITIONED IN THE HOLE SHALLOW ENOUGH SO THE FINISHED GRADE OF THE BACKFILL SOIL DOES NOT REACH THE TOP. IN OTHER WORDS, LEAVE THE TOP FEW INCHES OF THE ROOT BALL SIDES EXPOSED TO THE AIR. MULCH WILL COVER THE REMAINING COUPLE INCHES. THE TOP OF THE ROOT BALL SHOULD BE SEVERAL INCHES HIGHER THAN THE SURROUNDING LANDSCAPE SOIL. BE SURE THAT WHEN YOU ARE FINISHED PLANTING, THERE IS NO SOIL OVER THE ROOT BALL. SOIL (AS WELL AS THICK MULCH LAYERS MORE THAN 3 INCHES DEEP) OVER THE ROOT BALL CAN PREVENT WATER & AIR FROM ENTERING THE ROOT BALL. YOU SHOULD BE ABLE TO SEE THE TOP-MOST ROOT ORIGINATING FROM THE TRUNK AT THE SOIL SURFACE OR WITHIN THE TOP INCH OF SOIL IN THE ROOT BALL. THE TRUNK FLARE SHOULD BE VISIBLE. 2. MULCH SHOULD COVER ONLY THE EDGE OF THE ROOT BALL, SINCE THICK LAYERS OVER THE ROOT BALL CAN KEEP THE TRUNK TOO MOIST OR TOO DRY & CAN CAUSE OTHER PROBLEMS. LOCATE THE IRRIGATION DEVICE SO IT DELIVERS WATER DIRECTLY TO THE ROOT BALL. THERE IS USUALLY NO NEED TO WATER AREAS OUTSIDE THE ROOT BALL. NO AMENDMENTS OF ANY KIND ARE NECESSARY IN THE BACKFILL SOIL, BECAUSE EXTENSIVE RESEARCH CLEARLY SHOWS THAT THEY TYPICALLY DO NOT INCREASE THE SURVIVAL, NOR GROWTH AFTER PLANTING. NO SOIL BERM IS NEEDED IF TREES WILL BE IRRIGATED WITH A LOW-VOLUME DEVICE. PLACE THE BERM AT THE EDGE OF THE ROOT BALL IF THE ROOT BALL IS FINER TEXTURE THAN THE BACKFILL SOIL. THIS WILL HELP INSURE THAT WATER

THREE 2"X4" WOOD GROUND STAKES ᢇ᠊ᢞᡣ᠋ FINISH GRADE

PRUNE AND TIE MIN. 7 FRONDS WITH HEMP TWINE. FRONDS TO REMAIN TIED UNTIL PALM BECOMES ESTABLISHED.

TOP OF TRUNK CROWN SHAFT IS TO BE 90° TO THE GROUND.

PAD TRUNK WITH TWO LAYERS OF BURLAP TO PROTECT THE TRUNK. USE MINIMUM 3 GALVANZIED STEEL BANDS TO TIE 5 2"X4"X10" WOOD BATTENS AROUND TRUNK.

- NAIL THREE PIECES OF 2"X4" TO BATTENS TO PREVENT SLIPPAGE. PROVIDE THREE 2"X4" SUPPORTS. CUT TOP OF EACH SUPPORT AT ANGLE AND TOENAIL INTO BATTENS AND GROUND STAKES AT SHOWN SUPPORTS SHALL REMAIN IN PLACE A MINIMUM OF 6 MONTHS.

- 2 TO 2-1/2" CYPRESS MULCH

— 6" SOIL SAUCER

PLANTING MIX TO BE EXISTING SOIL REMOVED FROM HOLE.

TYP. PALM TREE PLANTING DETAIL

PLANT MATERIAL SHALL BE -PLANTED 2" HIGH WITH 1.CONTRACTOR SHALL ASSURE SOIL MOUNDS UP TO THE PERCOLATION OF ALL PLANTING TOP OF THE ROOT BALL PITS/BEDS PRIOR TO INSTALLATION 3" MINIMUM OF MULCH AS 2. AZALEAS & GARDENIA SHALL BE SPECIFIED PLANTED 2" HIGH ABOVE FINISH TEMPORARY SOIL GRADE, DO NOT MOUND SOIL BERM TO HOLD WATER MINIMUM DEPTH OF 12" APPROVED PLANTING SOIL PER SPECS FOR GROUNDCOVER BED EXCAVATE ENTIRE BED -SPECIFIED FOR GROUNDCOVER BED FINISHED GRADE (SEE GRADING PLAN) PREPARE PLANTING SOIL AS SPECIFIED. WHEN GROUNDCOVERS AND SHRUBS USED IN MASSES EXCAVATE ENTIRE BED TO RECEIVE APPROVED PLANTING SOIL AND PLANT MATERIAL -2X DIAMETER OF ROOTBALL EXCEPT WHEN SPECIFIED, SEE PLANT LIST SHRUB AND GROUND COVER PLANTING DETAIL

LANDSCAPE NOTES

DIVISION 2 - SITE CONSTRUCTION 02490 - TREES, PLANTS, AND GROUND COVERS

PERCOLATES INTO THE ROOTBALL.

<u> PART 1 - GENERAL</u>

- 1 01 DESCRIPTION OF WORK A. PROVIDE TREES, PLANTS, AND GROUND COVERS AS SPECIFIED. THE WORK INCLUDES: SOIL PREPARATION.
- 2. TREES, PLANTS, GROUND COVERS. 3. PLANTING MIXES. MULCH AND PLANTING ACCESSORIES.
- MAINTENANCE B. RELATED WORK
- SECTION 02100: SITE PREPARATION. SECTION 02480: SODDING SECTION 02810: LANDSCAPE IRRIGATION
- 1.02 QUALITY ASSURANCE A. PLANT NAMES INDICATED COMPLY WITH "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE (SEE SECTION 4.0 FOR ACCEPTABLE PLANTS). NAMES OF VARIETIES NOT LISTED CONFORM GENERALLY WITH NAMES ACCEPTED BY THE NURSERY TRADE. PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED. B. PLANT MATERIAL SHALL BE GRADED FLORIDA NO. 1 OR BETTER AS OUTLINED UNDER GRADES AND STANDARDS FOR NURSERY PLANTS, STATE PLANT BOARD OF FLORIDA. C. STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED.
- LARGER STOCK IS ACCEPTABLE, AT NO ADDITIONAL COST, AND PROVIDING THAT LARGER PLANTS WILL NOT BE CUT BACK TO SIZE INDICATED. 1.03 - SUBMITTALS
- A. SUBMIT THE FOLLOWING MATERIAL SAMPLES I. MULCH 2. PLANTING ACCESSORIES B. SUBMIT CERTIFICATIONS FOR THE FOLLOWING MATERIALS:
 1. TOPSOIL SOURCE AND PH VALUE
- PEAT MOSS 3 PLANT FERTILIZER 1.04 - DELIVERY, STORAGE, & HANDLING
- A. DELIVER FETILIZER MATERIALS IN ORIGINAL, UNOPENED, AND UNDAMAGED CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER STORE IN MANNER TO PREVENT WETTING AND DETERIORATION.
- TAKE ALL PRECAUTIONS CUSTOMARY IN GOOD TRADE PRACTICE IN PREPARING PLANTS FOR MOVING. WORKMANSHIP THAT FAILS TO MEET THE HIGHEST STANDARDS WILL BE REJECTED. DIG, PACK, TRANSPORT, AND HANDLE PLANTS WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK AND ON ARRIVAL, THE CERTIFICATE SHALL BE FILED WITH THE OWNER OR LANDSCAPE ARCHITECT. PROTECT ALL PLANTS FROM DRYING OUT. IF PLANTS CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, PROPERLY PROTECT THEM WITH SOIL WET PEAT MOSS, OR IN A MANNER ACCEPTABLE TO THE OWNER OF
- LANDSCAPE ARCHITECT. WATER HEELED-IN PLANTS DAILY. NO PLANT SHALL BE A. BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD DAMAGE OR BREAK THE BRANCHES. B. COVER PLANTS TRANSPORT ON OPEN VEHICLE WITH A PROTECTIVE COVERING TO PREVENT WINDBURN. C. MOWING CLEARANCE MUST BE MAINTAINED AT A MINIMUM OF 10 FEET
- FROM ANY TREE TO CURB OR SIDEWALK TO BUILDING, ETC. 1.05 - PROJECT CONDITION A. WORK NOTIFICATION: NOTIFY OWNER AT LEAST 5 WORKING DAYS PRIOR WORKING DATS PRIOR
 TO INSTALLATION OF PLANT MATERIAL
 PROTECT EXISTING UTILITIES, PAVING, AND OTHER FACILITIES FROM DAMAGE CAUSED BY LANDSCAPING OPERATIONS. DAMAGE TO EXISTING
- UTILITIES WILL BE IMMEDIATELY REPAIRED AT NO EXPENSE TO OWNER. C. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZES, QUANTITIES. AND OTHER REQUIREMENTS IS TO BE SHOWN ON TH PROJECT DRAWINGS. ERAU STANDARD LANDSCAPE PLANT LIST IS FOUND IN IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL
- OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN. D. IF THE IRRIGATION SYSTEM IS TO BE CHANGED, OR IS NEW, THIS SYSTEM WILL BE INSTALLED PRIOR TO PLANTING. LOCATE, PROTECT, AND MAINTAIN THE IRRIGATION SYSTEM DURING THE PLANTING OPERATIONS. REPAIR IRRIGATION SYSTEM COMPONENTS DAMAGED DURING PLANTING OPERATIONS, AT LANDSCAPE CONTRACTOR'S EXPENSE.
- 1.06 WARRANTY A. WARRANT PLANT MATERIAL TO REMAIN ALIVE AND IN HEALTHY AND VIGOROUS CONDITION FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE OF ENTIRE PROJECT. INSPECTION OF PLANTS WILL BE MADE BY THE OWNER OR THE ARCHITECT AT COMPLETION OF PLANTING.
 REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS,
- ALL PLANTS THAT ARE DEAD OR, AS DETERMINED BY THE OWNER OR LANDSCAPE ARCHITECT, ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AND HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, OR OTHER CAUSES DUE TO THE CONTRACTOR'S NEGLIGENCE. THE COST OF SUCH REPLACEMENT (S) IS AT CONTRACTOR'S EXPENS WARRANT ALL REPLACEMENT PLANTS FOR ONE YEAR AFTER INSTALLATION. WARRANTY SHALL NOT INCLUDE DAMAGE OR LOSS OF TREES, PLANTS, OR GROUND COVERS CAUSED BY FIRES. FLOODS. FREEZING RAINS.
- IGHTNING STORMS, OR WINDS OVER 50 MILES PER HOUR, WINTER KILL CAUSED BY EXTREME COLD AND SEVER WINTER CONDITIONS NOT TYPICAL OF PLANTING AREA: ACTS OF VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER. D. REMOVE AND IMMEDIATELY REPLACE ALL PLANTS, AS DETERMINED BY THE OWNER OR THE LANDSCAPE ARCHITECT, TO BE UNSATISFACTORY DURING THE INITIAL PLANT INSTALLATION.
- <u> PART 2 PRODUCTS</u> 2.01 - MATERIALS A. PLANTS: PROVIDE PLANTS TYPICAL OF THEIR SPECIES OR VARIETY: WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS
 - ROOT SYSTEMS. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DISFIGURING KNOTS, SUNSCALD INJURIES, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS,

1. DIG BALLED AND BUR LAPPED PLANTS WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. PROVIDE BALL SIZES COMPLYING WITH THE LATEST EDITION OF THE "AMERICAN STANDARDS FOR NURSERY STOCK." CRACKED OR MUSHROOMED BALLS ARE NOT ACCEPTABLE. 2. CONTAINER-GROWN STOCK: GROWN IN A CONTAINER FOR SUFFICIENT LENGTH OF TIME FOR THE ROOT SYSTEM TO HAVE DEVELOPED TO HOLD ITS SOIL TOGETHER FIRM AND WHOLE A. NO PLANTS SHALL BE LOOSE IN THE CONTAINER. B. CONTAINER STOCK SHALL NOT BE POT BOUND. 3. PLANTS PLANTED IN ROW SHALL BE MATCHED IN FORM. NDED 4. PLANTS LARGER THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED WHEN ACCEPTABLE TO THE OWNER OR THE LANDSCAPE ARCHITECT A. IF THE USE OF LARGER PLANTS IS ACCEPTABLE, INCREASE THE SPREAD OF ROOTS OR ROOT BALL IN PROPORTION TO THE SIZE OF THE PLANT. 5. SHRUBS SHALL MEET THE REQUIREMENTS FOR SPREAD AND HEIGHT INDICATED IN THE PLANT LIST. A. THE MEASUREMENTS FOR HEIGHT SHALL BE TAKEN FROM THE GROUND LEVEL TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT AND NOT THE LONGEST BRANCH. B. SINGLE STEMMED OR THIN PLANTS WILL NOT BE ACCEPTED. C. SIDE BRANCHES SHALL BE GENEROUS, WELL TWIGGED, AND THE PLANT AS A WHOLE WELL BUSHED TO THE GROUND. VED 鼦 D. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DAD WOOD, BRUISES, OR OTHER ROOT OR BRANCH INJURIES 19 19 20 2.02 - ACCESSORIES A. TOPSOIL FOR PLANTING BEDS: FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL OBTAINED FROM A WELL-DRAINED ARABLE SITE, REASONABLE FREE FROM 이야!÷ CLAY, LUMPS, COARSE SANDS, STONES, PLANTS ROOTS, STICKS, AND OTHER FOREIGN MATERIALS, WITH ACIDITY RANGE OF BETWEEN PH 6.0 4 M V - Z 1. IDENTIFY SOURCE LOCATION OF TOPSOIL PROPOSED FOR USE ON THE PROJECT 2. PROVIDE TOPSOIL FREE OF SUBSTANCES HARMFUL TO THE PLANTS, WHICH WILL BE GROWN IN THE SOIL. B. PEAT MOSS: BROWN TO BLACK IN COLOR, WEED AND SEED FREE - N GRANULATED RAW PEAT OR BALED PEAT, CONTAINING NOT MORE THAN 9% MINERAL ON A DRY BASIS. 0 2 2 E C. FERTILIZER: Ш 1. PLANT FERTILIZER TYPE: COMMERCIAL TYPE APPROVED BY THE OWNER OR THE LANDSCAPE ARCHITECT, CONTAINING 12% NITROGEN 5 Ŧ 12%PHOSPHORIC ACID, AND 12% POTASH BY WEIGHT, 1/4 IN FORM OF AMMONIA SALT. AND ½ IN FORM OF ORGANIC NITROGEN. D. MULCH: CYPRESS MULCH. FURNISH IN BULK. E. WATER: FREE OF SUBSTANCES HARMFUL TO PLANT GROWTH. HOSES OR OTHER METHODS OF TRANSPORTATION FURNISHED BY CONTRACTOR. N N N 3.01 - INSPECTION A. EXAMINE PROPOSED PLANTING AREAS AND CONDITIONS OF INSTALLATION. DO NOT START PLANTING WORK UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED. ِ آلاً ہ 3.02 - PREPARATION A. PLANTING SHALL BE PERFORMED ONLY BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A Ξü QUALIFIED SUPERVISOR. ŪF. B. LOCATE PLANTS AS INDICATED OR AS APPROVED IN THE FIELD AFTER STAKING BY THE CONTRACTOR. IF OBSTRUCTIONS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED WITH Ž 🗸 * PLANTING OPERATIONS UNTIL ALTERNATE PLANTS LOCATIONS HAVE BEEN SELECTED C. EXCAVATE CIRCULAR PLANT PITS WITH VERTICAL SIDES, EXCEPT FOR MY OCI VEERS PLANTS SPECIFICALLY INDICATED FOR PLANTING IN BEDS. PROVIDE SHRUB PITS AT LEAST 12" GREATER THAN THE DIAMETER OF THE ROOT SYSTEM, AND 24" GREATER FOR PALMS. DEPTH OF PIT SHALL ACCOMMODATE THE ROOT SYSTEM. SCARIFY THE BOTTOM OF THE PIT TO A DEPTH OF 4°. REMOVE EXCAVATED MATERIALS FROM THE SITE. R S D. PROVIDE PRE-MIXED PLANTING MIXTURE FOR USE AROUND THE BALLS AND ROOTS OF THE PLANTS CONSISTING OF 5 PARTS PLANTING TOPSOIL TO 1 PART PEAT MOSS AND 1/2 LB. PLANT FERTILIZER FOR EACH CUBIC ШS YARD OF MIXTURE, AS SPECIFIED IN 2.02 C.1. BACKFILL THE PALMS WITH EXISTING SOIL ONLY. DO NOT BACKFILL THE PALMS WITH THE PRE-MIXED XA PLANTING MIXTURE. 3.03 - INSTALLATION A. SET PLANT MATERIAL IN THE PLANTING PIT TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT, PLUM, AND FACED TO GIVE THE BEST ≤ ∞ APPEARANCE OR RELATIONSHIP TO EACH OTHER OR ADJACENT STRUCTURE. SET PLANT MATERIAL 1"-2" ABOVE THE FINISH GRADE. NO FILLING WILL BE PERMITTED AROUND TRUNKS OR STEMS. BACKFILL THE Δ PIT WITH PLANTING MIXTURE. DO NOT USE FROZEN OR MUDDY MIXTURES ш FOR BACKFILLING. B. AFTER BALLED AND BURLAPPED PLANTS ARE SET, MUDDLE PLANTING SOIL MIXTURE AROUND BASES OF BALLS AND FILL ALL VOIDS. O **PR(** 729 (386 C. MULCHING: 1. MULCH TREE AND SHRUB PLANTING PITS AND SHRUB BEDS WITH REQUIRED MULCHING MATERIAL 3" DEEP IMMEDIATELY AFTER PLANTING. THOROUGHLY WATER MULCHED AREAS. AFTER WATERING, RAKE MULCH TO PROVIDE A UNIFORM FINISHED SURFACE. 3 04 - MAINTENANCE A. MAINTAIN PLANTINGS UNTIL COMPLETION AND ACCEPTANCE OF THE ENTIRE PROJECT. B. MAINTENANCE SHALL INCLUDE PRUNING, CULTIVATING, WEEDING. $\overline{\mathcal{O}}$ WATERING, AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES NECESSARY TO MAINTAIN PLANTS FREE OF INSECTS AND DISEASE 1. RE-SET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE PLANTING SAUCER AND ADJACENT MATERIAL AND REMOVE DEAD MATERIAL $\overline{}$ CORRECT DEFECTIVE WORK AS SOON AS POSSIBLE AFTER DEFICIENCIES BECOME APPARENT AND WEATHER AND SEASON C. THE CONTRACTOR SHALL PROVIDE TO THE OWNER MONTHLY INSPECTION REPORTS REGARDING THE LANDSCAPE MATERIALS FOR THE DURATION OF THE ONE-YEAR WARRANTY PERIOD. $\overline{\triangleleft}$ 3.05 – ACCEPTANCE (BASED UPON FINAL COMPLETION) A. INSPECTION TO DETERMINE ACCEPTANCE OF PLANTED AREAS WILL BE П О Р MADE BY THE OWNER OR THE LANDSCAPE ARCHITECT, UPON CONTRACTOR'S REQUEST. PROVIDE NOTIFICATION AT LEAST 10 WORKING \cap AUSH DAYS BEFORE REQUESTED INSPECTION DATE. 1. PLANTED AREAS WILL BE ACCEPTED PROVIDED ALL REQUIREMENTS INCLUDING MAINTENANCE, HAVE BEEN COMPILED WITH AND PLANTS MATERIALS ARE ALIVE IN A HEALTHY AND VIGOROUS CONDITION. бн 2. LANDSCAPE WEED BARRIER IS REQUIRED UNDER ALL MULCHED AER(PRIN⁻ AREAS. B. UPON ACCEPTANCE, THE OWNER WILL ASSUME PLANT MAINTENANCE. 3.06 - CLEANING ()A. PERFORM CLEANING DURING INSTALLATION OF THE WORK AND UPON ()COMPLETION OF THE WORK. REMOVE FROM SITE ALL EXCESS MATERIALS SOIL, DEBRIS, AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM PLATING OPERATIONS. \Box لىا \Box \Box $\mathbf{\mathcal{L}}$ m DEV 2019-095 CITY APPROVAL STAMP of 19SHEET NO. Drawn By: MRB Date: 6-15-19 SCALE: NONE JOB #19-03

SEAL

Section 01720 AS-BUILTS/RECORD DOCUMENTS	Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONT'D) 3. Roadway elevation shall be recorded at all grade changes, 100' intervals along	Section 01720 AS-BUILTS/RECORD DOCUMENTS	Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONT'D)
PART 1 - GENERAL 1.1 SCOPE OF WORK A. This Section sets forth the requirements for preparing as-built/record drawings and	roadway, and other intervals as needed along all streets. Street centerline and curb invert elevations shall be recorded as noted. The as-built centerline profile of all streets shall also be shown on the plan and profile so it may be compared to the design profile grade lines. In the event that the as-built centerline longitudinal grade does not meet the City minimum standards, additional longitudinal grades of the adjacent curbing and similar roadway cross-section surveys to verify the	 (CONT'D) 11. Sanitary sewer manholes shall be verified and dimensioned from street centerlines or lot lines as appropriate. Each structure shall be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude, and elevation data. All rim and invert elevation shall be verified and recorded. This information shall be clearly indicated as being as built information. Design elevations shall be aroused 	18. Potable and reclaimed water valves, tees, bends, all services, and be located by tying them to baseline construction (Sta. & Offset). main valves, tees, and bends shall be located in the same manner offset distances shall be measured from upstream manholes to dc All services, valves, tees, bends, and hydrants shall be located by with station & offset, northerly & easterly, latitude, longitude an
documents for verification of construction and archiving. CONTRACTOR shall secure the services of a Florida licensed surveyor to collect data and prepare as-built/record drawings in accordance with City of Daytona Beach Utilities standards as follows: 1.2 REFERENCE:	 correct cross slope, shall be required to verify that the system will function as originally designed. 4. Storm drainage structures shall be located and/or dimensioned from centerlines or lot lines as appropriate. Each structure shall be located by sub-meter GPS with Station & Offect, parthenly & casterly, latitude, langitude, and elevation data 	 clearly indicated as being as-built information. Design elevations shall be crossed out and as-built information written next to it. 12. For subdivisions, proposed design finish floor elevations shall appear on all subdivision lots on the appropriate plan and profile sheet as well as on the master drainage plan. 	 19. For perpendicular crossings of storm water, sanitary sewer, potak reclaimed water, the as-built plans shall clearly indicate which up over or under other utilities, as necessary. 20. Any energial features such as compute flumes, lake hards, wells.
 A. The preparation work shall be in accordance with this section and supplementary details in the City of Daytona Beach Utilities Department Standard Details, latest edition. 1.3 AS-BUILTS/RECORD DRAWINGS AND DOCUMENTS: 	 5. Storm drainage pipe invert and inlet elevation shall be recorded and clearly denoted as As-built information. Design elevation shall be crossed out and as-built information written next to it. 	 13. Sanitary sewer line lengths, sizes, material, slope, etc., shall be verified and recorded, this information is to be clearly indicated as being as-built information. 14. Sewer Laterals shall be verified and recorded at the clean out locations, stationing and offset distances shall be measured from upstream manholes towards 	 20. Any special features such as, concrete flumes, lake banks, walls, i which are a part of the approved construction drawings should al dimensioned. 21. If an approved subdivision plat or site plan shows a conservation project surveyor should provide the event leastion of the specime.
In order to ensure that the project records are maintained to the highest standards and the information can easily be added to the City's electronic records the following information is required on all As-built/Record Drawings.	 6. Storm drainage pipe material, length, size shall be measured and/or verified. This information is to be clearly indicated as being as-built information. 7. All applicable topographic information pertinent to the on-site drainage system, such as ditches, swales, lakes, canals, etc. that are deemed necessary by the City 	 downstream manholes. Invert information at clean out shall be provided and be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude, and elevation data. 15. Lift station and forcemain shall be verified and dimensioned from street centerlines 	the right-of-way or property lines and proposed easement bounda drawing. The as-built location of these trees will help verify the s conservation easement prior to plat recording or certificate of occ
 A. The intent of these details for As-built/Record Drawings are required for all public facilities constructed. Prior to construction completion these as-built/record requirements will be reviewed to be certain the Contractor's surveyor has a clear understanding of what is required for completion of this work. 1. Pavement and curb widths shall be verified and dimensioned for each street at each block (for subdivisions) and as appropriate to confirm paying limits. (on 	 to verify the functional performance of the storm system, shall be noted. Normally, recording elevation every 100 feet at the top of bank to toe of sloe will be required. Measurements shall be taken and recorded in order to accurately tie down these features to the roadway centerlines and to plat lines. Whenever possible, contour lines shall be utilized to graphically describe these topographic features. 8. Retention areas shall have their top of bank and bottom elevations recorded. 	or lot lines as appropriate. Forcemain depth and location including valves will be provided and tied to permanent above grade features. dimensional and elevation information indicated on the approved plan shall be verified and recorded. This information shall be clearly indicated as being as-built information. Buried potable water lines and electrical service lines shall be clearly dimensioned, located and labeled. Each lift station shall be located by sub-meter GPS with station & offset,	22. When storm water, potable water, reclaimed water, or sanitary seare located within an easement, the as-built drawing will accurat location of the easement itself as well as the exact location of the within the easement. This is required in order to verify that the i been properly located and to ensure that future subsurface excav remedial repair can be accomplished without disturbance beyond
 each block (for subdivisions) and as appropriate to confirm paying limits (on site plans). 2. All radii at intersections shall be verified and dimensioned. This information is to be clearly indicated on the as-built/record drawings. 	 Actual measurements shall be taken and dimensions recorded of the size of all retention areas. Measurements shall be done from top of bank with side slopes indicated. Separate calculations shall be submitted to indicate required and provided retention volumes. 9. Actual materials used and elevations and dimensions of overflow weir structures 	 northerly & easterly, latitude, longitude and elevation data. 16. Curb cuts or metal tabs, used to mark sewer laterals, water services and water valves, shall bee verified for presence and accuracy of location. 17. Potable and reclaimed water main lines shall be dimensioned off the baseline construction. Water main line material size, length and depth, placed shall be noted. 	 23. As-built drawings are to be prepared, signed and sealed by a Flor These as-built drawings shall also be signed and sealed by a Flori of record. Two (2) paper copy sets of as-built record drawings shal with a digital copy in a compatible AutoCAD format, and PDF for 24. Elevations shall be referenced to NAVD 1988 Data. As-built surv
	and skimmers shall be noted on the as-built. 10. Storm drainage swale centerlines shall be located and elevations of flow line and top of bank shall be recorded every 100 feet. side slopes shall also be indicated.	Locations of valves shall also be tied to baseline construction. This information shall be clearly indicated as being as-built information.	shall be referenced to at least two Florida State Plane east coordin
THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT AS-BUILT DRAWING REQUIREMENTS (SHEET 1 OF 7) FY: 19/20 Drawing Date: 01/08 Drawn By: Kut Checked By: MP Scole: NTS	THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT	THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT	THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT
Page 126	Page 127	(STIELT 5 OF 7) File Name: AS-BUILT Page 128	
Section 01720 AS-BUILTS/RECORD DOCUMENTS	Section 01720 AS-BUILTS/RECORD DOCUMENTS	Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONT'D)	
Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONTD) 25. Benchmark Datum utilizes monumentation from the North American Vertical Datum of 1929 with elevations adjusted to NGVD 1988 data. Any NAVD 1929	Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONT'D) E. There are examples of how to display and label valves, fittings, and pipes on the plans. Include a location arrow going to the identified object:	(Inder 5 OF 7) File Nome: AS-BUILT Page 128 File Nome: AS-BUILT File Nome: AS-B	LIMIT OF SURFACE RESTORATION (3" THK. MIN.) EXCAVATION WIDTH= (TW)+4' MIN. = 10'
 Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONTD) 25. Benchmark Datum utilizes monumentation from the North American Vertical Datum of 1929 with elevations adjusted to NGVD 1988 data. Any NAVD 1929 monument with the limits of construction is to be protected. 1.4 <u>SUBMITTALS</u> A. CONTRACTOR shall submit each month to CITY the Project Activity Summary that shows current construction activities and a copy of notices to agencies including the City regarding road closures; plus a record of events that will be needed in the future. B. CONTRACTOR shall submit to CITY as required the proposed shut off schedule, capping, temporary service scheduling, record of notices to customers and proposed roadway closings. 	Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONTD) E. There are examples of how to display and label valves, fittings, and pipes on the plans. Include a location arrow going to the identified object: Valve Example: Manhole Example: 20" GATE VALVE Manhole No.25 STA, 22+23 (LT.55.0') STA, 22+23 (LT.55.0') LAT, = 29°12'53.009 LAT, = 29°12'53.009 LONG, = 81'04'03.355"W N = 1,774,373.4058 N = 1,774,373.4058 N = 1,774,373.4058 E = 634,602.7566 E = 634,602.7566 TOP OF NUT ELEV. = 27.50 RIM ELEV. = 27.50 GROUND ELEV. = 30.50 NORTH 15" RCP ELEV. = 8.50	Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONTD) PART 2- EXECUTION 2.1 General All drawings shall be prepared to True State Plane Coordinates. CONTRACTOR shall provide all materials, equipment, labor needed to prepare and submit accurate As-Built/Record Drawings. A. It is acceptable to CITY if the surveyor utilizes an after the fact approach to collecting and verifying the location and depth by vertical PVC pipes placed by the CONTRACTOR as markers for this purpose. The surveyor shall verify to the accuracy defined in Florida Statues the As-built conditions and certify the Record Drawings. B. CITY shall not be considered the best source of information for valve locations that may here here here the used uping final grading the surveyor of CONTRACTOR	LIMIT OF SURFACE RESTORATION (3" THK. MIN.) EXIST. BASE
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S tervals along centerline and nterline profile v be compared to erline longitudinal gitudinal grades to verify the ll function as	Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONT'D) 11. Sanitary sewer manholes shall be verified and dimensioned from street centerlines or lot lines as appropriate. Each structure shall be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude, and elevation data. All rim and invert elevation shall be verified and recorded. This information shall be clearly indicated as being as-built information. Design elevations shall be crossed out and as-built information written next to it.	Section 01720 AS-BUILTS/RECORD DOCUMENTS (CONT'D) 18. Potable and reclaimed water valves, tees, bends, all services, and be located by tying them to baseline construction (Sta. & Offset). main valves, tees, and bends shall be located in the same manner offset distances shall be measured from upstream manholes to de All services, valves, tees, bends, and hydrants shall be located by with station & offset, northerly & easterly, latitude, longitude an 19. For perpendicular crossings of storm water, sanitary sewer, pota
rom centerlines o-meter GPS with levation data. and clearly d out and as-built	 For subdivisions, proposed design finish floor elevations shall appear on all subdivision lots on the appropriate plan and profile sheet as well as on the master drainage plan. Sanitary sewer line lengths, sizes, material, slope, etc., shall be verified and recorded, this information is to be clearly indicated as being as-built information. 	 20. Any special features such as, concrete flumes, lake banks, walls, which are a part of the approved construction drawings should a dimensioned.
d'or verified. nation. ainage system,	14. Sewer Laterals shall be verified and recorded at the clean out locations, stationing and offset distances shall be measured from upstream manholes towards downstream manholes. Invert information at clean out shall be provided and be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude, and elevation data.	21. If an approved subdivision plat or site plan shows a conservation project surveyor should provide the exact location of the specime the right-of-way or property lines and proposed easement bound drawing. The as-built location of these trees will help verify the sconservation easement prior to plat recording or certificate of occ
ssary by the City e noted. Normally, e will be required. y tie down these possible, contour eatures. ns recorded. T the size of all	15. Lift station and forcemain shall be verified and dimensioned from street centerlines or lot lines as appropriate. Forcemain depth and location including valves will be provided and tied to permanent above grade features. dimensional and elevation information indicated on the approved plan shall be verified and recorded. This information shall be clearly indicated as being as-built information. Buried potable water lines and electrical service lines shall be clearly dimensioned, located and labeled. Each lift station shall be located by sub-meter GPS with station & offset, northerly & easterly, latitude, longitude and elevation data.	 22. When storm water, potable water, reclaimed water, or sanitary s are located within an easement, the as-built drawing will accura location of the easement itself as well as the exact location of the within the easement. This is required in order to verify that the been properly located and to ensure that future subsurface excav remedial repair can be accomplished without disturbance beyond 23. As-built drawings are to be prepared, signed and sealed by a Florence and the property and the property is a statement.
weir structures	 16. Curb cuts or metal tabs, used to mark sewer laterals, water services and water valves, shall bee verified for presence and accuracy of location. 17. Potable and reclaimed water main lines shall be dimensioned off the baseline construction. Water main line material size, length and depth, placed shall be noted. Locations of valves shall also be tied to baseline construction. This information shall be algorith indicated as being asphuilt information. 	 These as-built drawings shall also be signed and sealed by a Flor of record. Two (2) paper copy sets of as-built record drawings sha with a digital copy in a compatible AutoCAD format, and PDF fo 24. Elevations shall be referenced to NAVD 1988 Data. As-built survises and the selected of the set of th
of flow line and b be indicated. FY: 19/20 Drowing Date: 01/08 Drown By: KLH Checked By: JMP Scale: NTS Revision Date: Elle Nemer 65 DHWT	THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT UTILITIES DEPARTMENT	THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT (SHEET 4 OF 7)

SEAL

POTABLE WATER CONSTRUCTION & DESIGN STANDARDS UPDATED ITEMS ARE HIGHLIGHTED.

- THE CITY'S UTILITIES DEPARTMENT SHALL BE GIVEN A MINIMUM OF 3 BUSINESS DAYS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY POTABLE WATER SYSTEM CONSTRUCTION.
- 2. A PERMIT SHALL BE REQUIRED PRIOR TO ENGAGING IN ANY DEWATERING OR CONSTRUCTION ACTIVITY THAT CHANGES THE IMPERVIOUS AREA OF LAND. DEWATERING ACTIVITIES INCLUDE THE REMOVAL OF GROUND WATER FROM A CONSTRUCTION SITE, ENCLOSED VAULT, COFFERDAM, OR TRENCHES, ALLOWING CONSTRUCTION OR MAINTENANCE IN A DRY ENVIRONMENT. SITE SPECIFIC DEWATERING PERMITS SHALL REQUIRE PAYMENT OF A PER ACRE FEE BASED ON THE SIZE OF THE DEVELOPMENT. GENERAL PURPOSE PERMITS SHALL REQUIRE AN ANNUAL FEE BASED ON A BIANNUAL SCHEDULE OF DEWATERING ACTIVITIES DISCHARGING DIRECTLY INTO THE CITY'S MS4 CONVEYANCE SYSTEM. DEWATERING PERMIT APPLICATIONS CAN BE FOUND AT <u>https://www.codb.us/index.aspx?nid=262</u>. FEES ARE SUBJECT TO ARTICLE 7, SECTION 7.2 OF THE LAND DEVELOPMENT CODE AND MUST BE SUBMITTED WITH THE PERMIT APPLICATION TO THE CITY OF DAYTONA BEACH STORM WATER COORDINATOR AT 125 BASIN STREET, SUITE 100, DAYTONA BEACH, FLORIDA 32114 PRIOR TO ANY USE OF THE CITY'S MS4 CONVEYANCE SYSTEM. FAILURE TO COMPLY WILL RESULT IN IMMEDIATE TERMINATION OF ACCESS TO THE CITY'S MS4 SYSTEM.
- 3. ALL WORK PERFORMED ON POTABLE WATER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY AN UNDERGROUND UTILITY CONTRACTOR OR GENERAL CONTRACTOR LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
- 4. UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE DEPARTMENT OF HEALTH, AND THAT AS-BUILT DRAWINGS MEETING THE CITY'S REQUIREMENTS ARE PROVIDED TO THE CITY AND ACCEPTED PRIOR TO ANY USE OF THE SYSTEM.
- 5. THE WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE CITY'S FIRE (WATER) FLOW CODE.
- 6. EACH WATER SERVICE TERMINATION SHALL BE MARKED WITH 2" X 4" PRESSURE TREATED LUMBER EXTENDING 4' ABOVE GRADE DIRECTLY IN FRONT OF THE METER BOX WITH 2' OF ENDOTRACE POLY-TUBE OR APPROVED EQUAL COILED AND CAPPED WITH AN ELSTER HYDROSERT CAP INSIDE EACH METER BOX. 7. ALL WATER SERVICES SHALL BE MARKED WITH A "/" SAW CUT INTO THE CURB.
- 8. ALL WATER VALVES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB. 9. ALL TAPPING OF MAINS (12" OR SMALLER) SHALL BE PERFORMED BY CITY PERSONNEL. SCHEDULING
- OF THESE CONNECTIONS REQUIRES A MINIMUM OF 3 BUSINESS DAYS ADVANCE NOTICE AND SHALL BE COORDINATED WITH THE CITY INSPECTOR.
- 10. THE PLANS SHALL INCLUDE RIGHT OF WAY LINES AND STATIONING AND OFFSETS FROM THE CENTER LINE OF CONSTRUCTION. 11. DEWATERING ACTIVITIES SHALL KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6 INCHES
- BELOW THE WATER MAIN BEING INSTALLED. 12. ALL WATER MAINS SHALL BE INSTALLED ON A FIRM UNYIELDING FOUNDATION WITH ALL UNSUITABLE
- MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL. 13. TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY WITH A MINIMUM COMPACTION OF 98% IN PAVED AREAS AND 95% IN UNPAVED AREAS IN ACCORDANCE WITH

WATER CONSTRUC THE CITY OF DAYTONA BEACH & DESIGN STANDA (PAGE 1 OF 4 UTILITIES DEPARTMENT W-1

AASHTO T-180 MODIFIED PROCTOR TEST.

POTABLE WATER CONSTRUCTION & DESIGN **TESTING REQUIREMENTS:** 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TRENCH COMPACTION

- ABOVE THE PIPE AND AT 12-INCH VERTICAL INTERVALS TO FINISHED GRADE SPACING OF 300 FEET. 2. ON ALL PROJECTS OTHER THAN THOSE INITIATED BY THE CITY THE CONTRA AN INDEPENDENT TESTING LABORATORY AT HIS OWN EXPENSE TO INSURE T OF ALL FILL MATERIAL IS COMPLETED PROPERLY. ON ALL CITY PROJECTS T WILL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. IDEN
- LOCATIONS SHALL BE CLEARLY INDICATED ON TEST REORTS. TEST RESULTS PROMPTLY TO THE CITY'S INSPECTOR. 3. ALL POTABLE WATER MAINS SHALL BE FLUSHED, DISINFECTED, PRESSURE TE TERIOLOGICALLY CLEARED FOR SERVICE WHEN APPROPRIATE IN ACCORDANCE AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIROMENTAL PROTE THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED INSPECTOR WHO SH WITH CITY PERSONNEL AT THE WATER TREATMENT PLANT AT LEAST 3 BUSIN
- BEGINNING FLUSHING THE MAINS BEFORE PRESSURE TESTING. THE CITY MA F PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 8 AM). THE DATE FOR FLUSHING AND PIGGING MUST BE APPROVED BY THE WATER PLANT OPP NO HOSE OR FIRE HYDRANT SHALL BE USED IN THE COLLECTION OF BACTER SAMPLES. THE SAMPLING TAP MUST BE DEDICATED, CLEAN, DISINFECTED AND SAMPLING. SAMPLING TAP SHALL BE SMOOTH, UNTHREADED 1/2 INCH HOSE AND SAMPLING SHALL BE SCHEDULED AT THE CITY'S CONVENIENCE.
- 4. PRESSURE TEST FOR TAPPING SADDLES AND VALVES FOR A MINIMUM OF 30 OR 30 MINUTES AT MANUFACTURER'S RECOMMENDED TESTING PRESSURE. 5. WATERMAINS SHALL BE PRESSURE TESTED AT 150 PSI FOR 3 HOURS. TES
- ACCORDANCE WITH AWWA C-600 AND AWWA C-605 AS APPLICABLE WITH A TO BE BASED ON THE TABLE BELOW. ALLOWABLE LEAKAGE PER 1000 FT. OF PIPELINE * - GPH

W-4

Page 5

- 14. WHERE POTABLE WATER AND SANITARY SEWER MAINS CROSS WITH LESS THAN TWELVE (12) INCHES OF VERTICAL CLEARANCE OR WHERE THE SEWER MAIN IS ABOVE THE WATER MAIN, MEDIÀTIÓN MUST BE REVIEWED AND APPROVED BY FDEP.
- 15. WATER MAINS SHALL BE CONSTRUCTED A MINIMUM OF 4 FEET BEHIND THE BACK OF CURB OR THE EDGE OF ROADWAY PAVEMENT, WHICHEVER IS GREATER, AS MEASURED FROM OUTSIDE WALL OF THE WATER MAIN. 16. 3 INCH METALIZED PIPE LOCATION TAPE SHALL BE LOCATED 15 INCHES TO 24 INCHES BELOW FINISHED
- GRADE OR AS SPECIFIED BY THE MANUFACTURER FOR ALL WATER LINES. BLUE TRACER WIRE SHALL BE ATTACHED TO ALL PIPES. WIRE RUNS SHALL BE CONNECTED WITH SILICONE FILLED WIRE CONNECTORS. SERVICES SHALL BE CONNECTED TO THE MAIN WIRE WITH SILICONE FILLED WIRE CONNECTORS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE AND TEST FOR CONTINUITY (SEE CITY SPECIFICATION #15049 TRACER WIRE AND ALARMING TAPE). TRACER WIRE SHALL BE TESTED FOR CONTINUITY UNDER THE SUPERVISION OF A CITY REPRESENTATIVE AFTER INSTALLATION. IF A METER BOX IS NOT WITHIN 200 FEET OF A VALVE AND VALVE BOX AN ADDITIONAL VALVE BOX FOR TRACER WIRE IS REQUIRED.
- 17. SINGLE RESIDENTIAL WATER SERVICES SHALL BE A MINIMUM 1-INCH ENDOT, ENDOTRACE OR APPROVED EQUAL POLY-TUBE (MEETING THE SPECIFICATIONS OF NSF-14, AND AWWA C901.)
- 18. ALL WATER MAINS SHALL BE NSF-APPROVED FOR POTABLE WATER USE AND HAVE A MINIMUM COVER OF 36-INCHES.
- 19. WATER MAINS LESS THAN 18" MAY USE POLYVINYL CHLORIDE (PVC) C900, OR C905, SHALL MEET AWWA REQUIREMENTS AND HAVE A MINIMUM DIMENSION RATIO (DR-18) PRESSURE CLASS 150. WATER MAINS 18" AND LARGER SHALL BE DUCTILE IRON PIPE (D.I.P.), CLASS 350, CEMENT LINED. ALL NON-DUCTILE IRON PIPE HORIZONTAL DIRECTIONAL DRILL WATER MAINS SHALL HAVE A MINIMUM WORKING PRESSURE OF 160 PSI. THE CITY MAY REQUIRE A HIGHER PRESSURE RATING BASED ON SITE CONDITIONS. INSIDE DIAMETER OF NON D.I.P. HORIZONTAL DIRECTIONAL DRILL PIPE SHALL MATCH THE INSIDE DIAMETER OF CONNECTING PIPES. ALL GASKETS SHALL BE LUBRICATED BEFORE INSTALLATION.
- 20. DIRECTIONAL DRILLS SHALL HAVE FUSED MJ ADAPTERS.

THE CITY OF DAYTONA BEACH

UTILITIES DEPARTMENT

- 21. ALL POTABLE WATER MAINS SHALL USE THRUST RESTRAINT AS CALCULATED BY A PROGRAM AVAILABLE AT EBAA.COM
- 22. ALL FITTINGS, VALVES, ETC. SHALL BE DUCTILE IRON (MJ OR FLANGED) AND SHALL BE RESTRAINED. 23. ALL RESTRAINED PIPE BELL JOINTS SHALL USE BELL RESTRAINTS OR GRIPPER TYPE GASKETS CAN BE USED FOR DUCTILE IRON PIPE JOINTS.
- 24. WATER VALVES SHALL BE INSTALLED AT ALL STREET INTERSECTIONS AND AT A MAXIMUM SPACING OF 750 FEET. SPACING OF VALVES ON PRIMARY TRANSMISSION MAINS WILL BE DETERMINED BY THE CITY.
- 25. VALVES SHALL BE INSTALLED ON ALL LEGS OF WATER MAIN TEES EXCEPT ONE. 26. ALL FITTINGS SHALL MEET MINIMUM RESTRAINT REQUIREMENTS PER ANSI/AWWA/EBAA, AND ALL PRESSURE PIPES UNDER THE ROADWAYS SHALL BE RESTRAINED.

WATER CONSTRUCTION

& DESIGN STANDARDS

(PAGE 2 OF 4)

W-2

27. METER LENGTHS REQUIRED FOR WATER METERS INSTALLATION ARE AS FOLLOWS: 3/4" TO 2" METER REQUIRES 6', 4" METER REQUIRES 12', 6" AND 8" METER REQUIRES 14', AND A 10" METER REQUIRES 20'.

Drawing Date: 01/08

Scale: NTS Revision Date: 2/2019

File Name: Water Notes W-

Drawn By: KLH Checked By: JMP

	FY-19/20
TION	Drawing Date: 01/08
ADDC	Drawn By: KLH
ARDS	Checked By: JMP
1)	Scale: NTS
±)	Revision Date: 02/19
	File Name: Water Notes W-1/

STANDARDS	 Water n Reclaim 3 ft. for Reclaim Reclaim 	On-Site S Disposal	Gravity o Sanitary 9 Sanitary 9 Reclaime	Vacuum (Storm Sev Stormwat Reclaime			
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CTOR SHALL EMPLOY HAT COMPACTION HE TESTING TIFICATION OF TEST SHALL BE FORWARDED	ould cross above er regulated une sanitary sewer er not regulated entis provided for you	Treatment & n	ure Force Main, er (4)	y Sewer	re Main, 2r (2)	er Pipe	ON OF PUI	
STED AND BAC- WITH THE LATEST CTION REQUIREMENTS.	e other p der Part J where th under P r convenier						BLICA	
ALL COORDINATE ESS DAYS PRIOR TO REQUIRE WORK TO BE AND TIME SCHEDULE RATIONS. RIOLOGICAL	ipe. When water III of Chapter 62-1 ne bottom of the v art III of Chapter nce only. Please refer to	10 ft. m	Water 10 ft. 6 ft. 1	Water 10 ft 3 ft.	Water 3 ft.	Horizontal	WATER SY	
D FLUSHED PRIOR TO BIB. DISINFECTION	main must be 1 610, F.A.C. vater main is la · 62-610, F.A.C. F.A.C. Rule 62-555.3	unimum	r Main - preferred minimum (3)	r Main . preferred minimum	minimum	l Separation	STEM M/	FINISHED GRADE
TING SHALL BE IN ALLOWABLE LEAKAGE	oelow ot 114 for addit		1.1				AINS	₩W. 36°
AVERAGE TEST PRESSURE	her pipe, the mini st 6 inches above t ional construction requi		12 inches i except for 6 inches is 12 inches is	Water Ma 12 inches i 6 inches m	Water Mai 12 inches i except for 6 inches is 12 inches i	Cross	IN ACCOR	EXIST. PIPE (FULL LENGTH)
60 64 (PSI) 9.56 10.19 450 9.01 9.61 400 8.43 8.99 350 7.80 8.32 300 7.47 7.97 275 7.12 7.60 250 6.76 7.21 225 6.37 6.80 200	mum separation is 12 he top of the gravity ements.	Į	s the minimum, gravity sewer, then the minimum and s preferred	in s preferred inimum	n	ings (1)	DANCE WITH	RESTRAINED JOINT
5.96 6.36 175 5.52 5.88 150 5.04 5.37 125 4.50 4.80 100 E LEAKAGE WILL	2 inches. sanitary sewer.		Alternate 3 ff. mir Water	Alternate 3 ft. min Wate	Alternate 3 ft. mi	Joint Spacin (Full Join	H F.A.C. RUL	NOTES: 1. TYPE "A" CROSS UPON SPECIFIC 2. ADDITIONAL RES
RAGE TEST,		Į	Main Main	Yr Main	r Main	g @ Crossings t Centered)	E 62-555.314	3. LOWERING OF E IF EXISTING FIEL 4. LENGTH OF SEC 5. INSTALL RESTR/
		·I				•	-	
TION RDS Prawn By: KLH Checked By: JMP Scale: NTS Revision Date: 2/2019 File Name: Water Notes W-4	THE CITY OF I UTILITIES I	DAYT DEPA	ONA BEACH RTMENT	WA SEPAR	TER MAIN ATION CHART W-8		FY-19/20 Drawing Date: 01/08 Drawn By: KLH Checked By: JMP Scale: NTS Revision Date: 01/19	THE CITY OF DAYTONA UTILITIES DEPARTMI

									-	OG. MRB	MRB MRB BY
	FITTING PIPE SIZE (IN.) 4" 6" 8" 10" 12" 14" 16" 18" 20" 24" 30" LENGTI OF PIE TABLE WHICH TABLE	SCHEDULE 90° BEND 20 28 36 44 51 57 63 69 75 87 102 +S BETWEEN °E TO BE RE SHOWS MINI RESTRAINT I APPLIES TO TEST PRESS SOIL TYPE: S COVER DEPT	OF LENGTHS 45° BEND 18 18 18 18 28 21 24 26 29 31 36 42 HEAVY LINES STRAINED. MUM LENGTH S REQUIRED. PVC PIPE FC URE: 150 PSI SP H: 3 FEET (N	OF RESTRAIN 22.5" BEND 18 18 18 18 18 18 18 18 18 18 18 18 20 INDICATE OF OF PIPE EAC OF PIPE EAC OF PIPE EAC	NED PVC PIPE 11.25° BEND 18 18 18 18 18 18 18 18 18 18	E (FT.) TEE OR DEAD END 45 63 82 98 116 132 148 163 179 208 248 STH (18' MIN.) FITTING FOR TONS:				4 02-25-20 MOVED P.S. BLDG. EXPANDED PRO. BLE	3 12-30-19 REVISED BUILDING LOCATION 2 11-07-19 REVISED BUILDING LOCATION 1 10-10-19 REVISED NO. DATE DESCRIPTION REVISIONS REVISIONS
THE CITY OF DAYT UTILITIES DEPA	FITTING PIPE SIZE (IN.) 4" 6" 8" 10" 12" 14" 16" 18" 20" 24" 30" 36" * 42" * 48" * LENGTH OF PIE TABLE WHICH TABLE VALUES * VALU	SCHEDU SCHEDU 90' BEND 21 (26) 30 (36) 38 (45) 45 (54) 52 (63) 60 (72) 66 (80) 74 (87) 80 (94) 92 (108) 106 (128) 69 (82) 76 (92) 90 (106) IS BETWEEN IC BE RE SHOWS MINII RESTRAINT I APPLIES TO SOUL TYPE: S COVER DEPT SAFETY FACT RENCH TYP S IN PARENTI JES APPLY TI S IN PARENTI JES APPLY TI S IN PARENTI	ILE OF LENGT 45" BEND 18 (18) 18 (18) 18 (18) 18 (18) 18 (18) 18 (18) 18 (18) 18 (18) 18 (22) 22 (26) 25 (30) 27 (33) 31 (36) 33 (39) 38 (45) 44 (53) 28 (34) 31 (37) 40 (46) HEAVY LINES STRAINED. DUCTILE IRO DUCTILE IRO VURE: 150 SP HESIS (X) AR 0 DUCTILE IRO	HS OF RESTI 22.5' BEND 18 (18) 18 (1	RAINED DIP ((11.25' BEND 18 (18) 18	T.) TEE OR DEAD END 37 (55) 52 (78) 67 (100) 81 (122) 94 (141) 107 (160) 120 (180) 132 (198) 144 (216) 167 (250) 199 (298) 170 (204) 191 (229) 212 (254) STH (18' MIN.) FITTING FOR IG CONDITIONS: POLYETHYLENE. PRESSURE. ND DIP NED JOINT BLE	FY-17/18 Drawing Do Drawn By: Checked B Scale: NTS Revision D	ate: 01/08 KLH y: JMP		PARKER MYNCHENBERG & ASSOCIATES, INC.	729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117 729 81DGEWOOD AVENUE HOLLY HILL, FLORIDA 32117 (386) 677–6891 FAX (386) 677–2114 E-MAIL: info@parkermynchenberg.com (386) 677–6891 FAX (386) 677–2114 E-MAIL: info@parkermynchenberg.com CERTIFICATE 0F AUTHORIZATON NUMBER 00003910 ERTIFICATE F
					R	<u>₩-6</u>	Revision Dr File Name:Rest Page 51	ate: rained Joint Table RW-9		EMBRY RIDDLE AERONAUTICAL UNIVERSITY PRINT SHOP Daytona Beach * Florida	WATER STANDARD DETAILS
										DEV 2019–0 CITY APPROV 1 7 0 SHEE Drawn By Date: 6– SCALE: JOB #19–	95 <u>/AL STAMP</u> F 1 9 T NO. (: MRB -15–19 NONE -03

THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT

SANITARY SEWER CONSTRUCTION & DESIGN STANDARDS (CONT'D) (PAGE 3 OF 4) S-3

awing Date: 01/08 Orawn By: KLH ecked By: JMP Revision Date: 01/2019 ile Name: Sanitary Sewer Notes P3

TENSILE STRENGH/BREAK LOAD OF 452 LBS. AND REQUIRES APPROVAL BY THE CITY FOR THE FULL LENGTH OF ALL SEWER FORCE MAINS. THE PIPE LOCATOR TAPE SHALL BE INSTALLED BETWEEN AND 24" BELOW FINISHED GRADE OR AS DIRECTED BY THE MANUFACTURER. TAPE SHALL BE COLOR CODED GREEN FOR FORCE MAINS. LOCATER WIRE SHALL TERMINATE AT A LOCATION AND IN A MANNER CONVENIENT FOR CITY LOCATER STAFF. 32. TRACER WIRE SHALL BE TESTED FOR CONTINUITY UNDER SUPERVISION OF A CITY REPRESENTATIVE AFTER INSTALLATION. 33. ALL SEWER LINES CONSTRUCTED OUTSIDE OF PUBLIC RIGHT-OF-WAYS WITHIN SIDE YARDS.

31. THE CONTRACTOR SHALL INSTALL A #12-GAUGE MINIMUM COPPER TRACER WIRE TAPED TO THE TOP OF THE PIPE AT INTERVALS NO GREATER THEN 4-FEET. COPPER WIRE SHALL HAVE A MIN.

CONSTRUCTION & DESIGN STANDARDS(CONT'D)

SANITARY SEWER

BACKYARDS, AND OTHER POORLY ACCESSIBLE AREAS SHALL BE CONSTRUCTED OF GREEN C-900 PVC. ABSOLUTELY NO USE OF PLASTIC STYRENE FITTINGS SHALL BE ALLOWED. 34. ALL LOCAL COLLECTION SANITARY SEWER MANHOLES SHALL BE PRECAST WITH A MINIMUM INSIDE DIAMETER OF 4 FEET. MANHOLES OVER 6 FEET DEEP SHALL HAVE A MINIMUM 4 FT TALL PRE-

CAST BOTTOM SECTION. 35. STANDARD MANHOLES SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 400 FEET.

36. MANHOLE RIMS SHALL BE FLUSH WITH THE FINISH GRADE ELEVATION IN PAVED AREAS AND A MINIMUM OF 0.5 FEET AND MAXIMUM OF 1.0 FOOT ABOVE GRADE IN UNPAVED AREAS.

37. THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER MANHOLES IN SUCH A WAY THAT SEWER LINES DO NOT INTERSECT SEALED JOINTS BETWEEN SECTIONS OF THE MANHOLE. 38. INDIVIDUAL SANITARY SERVICES SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES AND MUST

BE CONNECTED TO SEWER MAINS BY USE OF WYE CONNECTIONS UNLESS OTHERWISE APPROVED BY THE CITY. 39. SANITARY SEWER DROP MANHOLES SHALL ONLY BE USED UNDER SPECIAL CONDITIONS AS APPROVED

BY THE CITY, DROPS LESS THAN 3.0' ARE NOT ALLOWED, INSIDE DROPS ARE NOT ALLOWED.

40. SANITARY SEWER MANHOLES WITH SEWER FORCE MAINS DISCHARGING DIRECTLY INTO THEM SHALL BE FIBERGLASS OR POLY-ETHYLENE LINED. RETRO-FITTING OF MANHOLES WITH LINERS IS REQUIRED WHEN NEW CONNECTIONS ARE MADE. FIBERGLASS SHALL BE A MINIMUM 1/2" THICK UNLESS APPROVED OTHERWISE BY THE CITY, OTHER LINING METHODS AND MATERIALS MAY BE CONSIDERED. ON A CASE BY CASE BASIS. UNDER CIRCUMSTANCES WHERE HYDROGEN SULFIDE IS A SIGNIFICANT CONCERN, MANHOLES UPSTREAM AND/OR DOWNSTREAM OF THE FORCE MAIN TIE-IN MAY BE REQUIRED TO HAVE LININGS INSTALLED.

41. EZ-WRAP PLASTIC, AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION, SHALL BE USED ON THE OUTSIDE OF ALL MANHOLE AND WETWELL JOINTS. APPLY ONE LAYER OF 9" WRAP CENTERED ON EACH JOINT. A CITY INSPECTOR SHALL INSPECT ALL JOINT SEALS PRIOR TO BACKFILLING OPERATIONS.

42. CONTRACTOR FOR DEVELOPMENTS WITH THE POTENTIAL TO DISCHARGE INDUSTRIAL OR COMMERCIAL WASTE INTO THE SEWER SYSTEM SHALL CONSTRUCT AND MAINTAIN AT THE OWNER'S EXPENSE A SUITABLE CONTROL MANHOLE OR MANHOLES DOWNSTREAM OF ANY TREATMENT, STORAGE. OR OTHER APPROVED WORKS, PRIOR TO THE CITY'S COLLECTION SYSTEM TO FACILITATE OBSERVATION, MEASUREMENT, AND SAMPLING OF ALL WASTE, INCLUDING ALL DOMESTIC SEWAGE FROM THE ESTABLISHMENT.

43. CONTROL MANHOLE OR MANHOLES SHALL BE CONSTRUCTED AT LOCATIONS EASILY ACCESSIBLE AT ALL TIMES TO CITY PERSONNEL FOR SAMPLING.

44. SANITARY SEWER LIFT STATIONS AND FORCE MAINS SHALL BE APPROVED BY THE CITY. LIFT STATIONS SHALL BE CONSTRUCTED WITH A MINIMUM WET WELL AS SHOWN IN THE LIFT STATION DETAIL.

45. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO PREPARE AND SUBMIT FLOTATION CALCULATIONS TO SIZE THE BASE OF THE WET WELL, AND ANY MANHOLES AS DEEMED NECESSARY BY THE CITY.

46. ALL FITTINGS SHALL MEET THE MINIMUM RESTRAINT REQUIREMENTS PER ANSI/AWWA/DIPRA, AND ALL PRESSURE PIPES UNDER ROADWAYS SHALL BE RESTRAINED.

	O. BLDG. MRB	MRB	MRB	MRB	ВҮ	
	MOVED P.S. BLDG. EXPANDED PR	REVISED	REVISED BUILDING LOCATION	REVISED	DESCRIPTION	REVISIONS
	4 02-25-20	3 12-30-19	2 11-07-19	1 10-10-19	NO. DATE	
PARKER MYNCHENBERG & ASSOCIATES. INC.		TRUFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS	1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117	(386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com	CERTIFICATE OF AUTHORIZATON NUMBER 00003910	
EMBRY RIDDLE AERONAUTICAL UNIVERSITY PRINT SHOP	DAYTONA BEACH * FLORIDA			SEWER STANDARD DETAILS		
DEV 2019 CITY APP 18 Drawn Date: SCALE JOB #	9(RO 1EE 8 6- 119)95 VAI DF T -15 -0	1 NO MR 5	STA 7 (8 19 NE	<u>MP</u>	

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	MOVED P.S. BLDG. EXPANDED PRO. BLDG.	REVISED	REVISED BUILDING LOCATION	REVISED	DESCRIPTION	REVISIONS
	4 02-25-20	3 12-30-19	2 11-07-19	1 10-10-19	NO. DATE	
PARKER MYNCHENBERG & ASSOCIATES. INC.		PRUFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS	1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 3211	(386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.co.	CERTIFICATE OF AUTHORIZATON NUMBER 00003910	
EMBRY RIDDLE AERONAUTICAL UNIVERSITY PRINT SHOP	DAYTONA BEACH * FLORIDA			SEWER STANDARD DETAILS		
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	512E		I.OF.	BOTTOM	top
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F-1	3'-Ø" × 3'-Ø"	1'-4"	+(@'-@")	4- # 5 EACH WAY	
F-2	4'-6" × 4'-6"	1'-4"	+(@'-@")	5- # 5 EACH WAY	
F-3	5'-6" × 5'-6"	1'-8"	+(Ø'-Ø")	6-*6 EACH WAY	
F-4	6'-6" × 6'-6"	2'-Ø"	+(Ø'-Ø")	8-16 EACH WAY	
F-5	ד'-6" × ז'-6"	2'-4"	+(Ø'-Ø") -(Ø'-1 1/2")	12- *6 EACH WAY	12- *6 EACH WAY
F-6	T'-@" × 9'-@"	3'-Ø"	+(@'-@")	8-46 LONG WAT 10-46 SHORT WAT	8-46 LONG WAY 10-46 SHORT WAY
F-7	9'-@" × 9'-@"	3'-Ø"	+(@'-@")	10-16 EACH WAY	10-16 EACH WAY
F-8	6'-@" × 14'-@"	3'-Ø"	+(@'-@")	1-46 LONG WAY 15-46 SHORT WAY	1-46 LONG WAY 15-46 SHORT WAY

FOUNDATION SCHEDULE S-200) N.T.S.

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Robert L. Plowfield, Jr., P.E. FL Registration No. 39759

GENERAL NOTES

1. COORDINATE WITH FP&L FOR INSTALLATION OF THE NEW TRANSFORMER AND PRIMARY CONDUITS.

- COORDINATE WITH ERAU AND FPL FOR THE EXISTING WARE HOUSE POWER SERVICE SWITCH OVER FROM THE EXISTING TRANSFORMERS TO THE NEW TRANSFORMER AND THE REMOVAL OF THE EXISTING TRANSFORMERS, PRIMARY, AND SECONDARY CONDUITS. 3. PROVIDE AND INSTALL NEW LAMICOID NAMEPLATES FOR EXISTING
- WAREHOUSE BUILDING PANELS INDICATING 208VAC OPERATING VOLTAGE.

REFERENCE NOTES

- $\sim\!\!\!\sim\!\!\!\sim\!\!\!\sim\!\!\!\sim\!\!\!\sim\!\!\!\sim$ (1) COORDINATE WITH FP&L FOR REMOVAL OF EXISTING 240/120 VAC SINGLE PHASE TRANSFORMERS, PRIMARY CONDUCTORS, AND PRIMARY CONDUITS BACK TO EXISTING PRIMARY PULL BOX.
- $\langle 2 \rangle$ REMOVE EXISTING SECONDARY FEEDER FROM EXISTING TRANSFORMERS TO WAREHOUSE BUILDING METER.
- $\langle 3 \rangle$ COMMUNICATIONS PULL BOX INSTALLED BY PRODUCTION BUILDING CONTRACTOR.
- 5 (4) INSTALL FPL PROVIDED PRIMARY CONDUITS FROM EXISTING PRIMARY PULL BOX TO PROPOSED TRANSFORMER PRIMARY. COORDINATE WITH FPL FOR STUB-UP LOCATIONS.
- _____ 5 INSTALL ONE 4 INCH SCH 40 PVC CONDUITS FROM COMMUNICATIONS PULLBOX TO THE PRINT SHOP COMMUNICATIONS ROOM. STUB UP CONDUITS ADJACENT TO TTB BOARD.
- $\sim\sim\sim\sim$ $\left(\left< \frac{6}{6} \right)$ INSTALL 36"X36"X36" ELECTRICAL PULL BOX. (7) INSTALL NEW TRANSFORMER PAD AND COORDINATE INSTALLATION
- OF NEW TRANSFORMER WITH FP&L. INSTALL NEW SERVICE CONDUCTORS IN SCH 40 PVC CONDUITS FROM TRANSFORMER SECONDARY TO CT CABINET. SEE PANEL FEEDER SCHEDULE ON SHEET E6.1 FOR CONDUIT AND CONDUCTOR SIZING.
- INSTALL NEW SERVICE CONDUCTORS IN SCH 40 PVC CONDUITS FROM CT CABINET TO PANEL MDP. SEE PANEL FEEDER SCHEDULE ON SHEET E6.1 FOR CONDUIT AND CONDUCTOR SIZING.
- $\langle 10 \rangle$ INSTALL NEW SERVICE CONDUCTORS IN SCH 40 PVC CONDUITS FROM TRANSFORMER SECONDARY TO WAREHOUSE BUILDING METER BASE. SEE PANEL FEEDER SCHEDULE ON SHEET E6.1 FOR CONDUIT AND CONDUCTOR SIZING.
- $\checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark$ > INSTALL THREE 4 INCH CONDUITS FROM TRANSFORMER SECONDARY CABINET TO ELECTRICAL PULL BOX. MAINTAIN 12" MIN SPACING BETWEEN POWER AND DATA CONDUITS.
- $\langle 12 \rangle$ INSTALL ONE 2 INCH SCH 40 PVC CONDUIT FROM LCP TO LIGHT POLE. SEE EQUIPMENT FEEDER SCHEDULE ON SHEET E6.1 FOR CONDUCTOR DETAILS. SEE DETAIL 1 ON SHEET E5.2 FOR POLE DETAILS.
- $\langle 13
 angle$ INSTALL CT CABINET AND METER BASE IN ACCODANCE WITH FPL ELECTRICAL SERVICE STANDARDS. SEE DETAIL 4 ON SHEET E5.1 FOR DETAILS.

Date 07/12/2019		REVISION	DATE
Job no. SOBE 19005	DILE PLAIN - ELEUIRIUAL	ADDENDUM 1	08/21/2019
Sheet no.		A REVISION 1	01/15/2020
	EMRRY-RIDDI F AFRONALITICAL LINIVERSITY	🔬 REVISION 3	03/13/2020
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		DRAWN	CHECKED

03/13/2020

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SITE PLAN - PHOTOMETRICS E1.4 1/16" = 1'-0"

GENERAL NOTES

- 1. SITE LIGHTING SHALL BE IN COMPLIANCE WITH CITY OF DAYTONA BEACH LAND DEVELOPMENT CODE SECTION 6.9.
- 2. COORDINATE POLE LOCATIONS WITH CIVIL DRAWINGS TO AVOID CONFLICT WITH OTHER UTILITIES.
- 3. EXISTING PARKING SPOTS NOT INCLUDED IN SCOPE OF THIS PROJECT.
- 4. SEE SHEET E5.2 FOR LUMINAIRE AND POLE DETAILS

REFERENCE NOTES

 2^{1}

4 6.5 6.4 5.

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3.2 3.4 3.8 4.3 4.6 4.7 4.3 4.0 5.9 4.1 4.5 5

(1) FUTURE LIGHT TO BE PROVIDED INSTALLED WITH PRODUCTION BUILDING.

	REVISION	DATE
	REVISION 2	02/06/2020
Sheet no.	A REVISION 3	03/13/2020
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