

DEVELOPMENT INFORMATION

APPLICANT / LANDOWNER:

GORDON HARDWICK  
EDGEWATER AUTO SPA, LLC  
226 NORTH NOVA ROAD STE 151  
ORMOND BEACH, FL 32174  
PHONE: 865.414.2911

ENGINEER / SURVEYOR / LANDSCAPE ARCHITECT:

UPHAM, INC.  
265 KENILWORTH AVENUE  
ORMOND BEACH, FL 32174  
PHONE: 386.672.9515

ARCHITECT:

TREY LUCAS ARCHITECTURE  
324 EASTLAND DR  
DECATUR, GA 30030  
PHONE: 404.378.7431

GEOTECHNICAL:

ECS FLORIDA, LLC  
2330 SOUTH NOVA RD, SUITE A  
SOUTH DAYTONA, FL 32119  
PHONE: 386.944.9588

SITE AND GENERAL INFORMATION:

1. THE PROJECT IS A REDEVELOPMENT OF A FORMER SHED SALES SITE AND VACANT CLEARED LAND FOR A PROPOSED CAR WASH.
2. THE PROPOSED DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF A NEW 4,210 SF SPORTY'S CAR WASH CAR WASH FACILITY. THE BUILDING CONTAINS A TUNNEL FOR VEHICLE WASHING. PATRONS CAN CHOOSE TO BY-PASS THE VEHICLE WASHING AND UTILIZE THE 4,920 SF SELF VACUUM STATIONS.
3. THE PROPERTY IS ZONED HIGHWAY COMMERCIAL (B-3) WITH A FUTURE LAND USE DESIGNATION OF COMMERCIAL.
4. STORMWATER TREATMENT OF RUNOFF FROM THE PROPERTY WILL BE PROVIDED FROM A STORMWATER SYSTEM THAT WILL BE PRIVATELY OWNED AND MAINTAINED CONSISTING OF INTERCONNECTED DRY RETENTION PONDS AND AN EXFILTRATION TRENCH. DISCHARGE FROM THE SYSTEM WILL BE CONVEYED TO AN EXISTING DRAINAGE SWALE ON S. RIDGEWOOD AVENUE. THE STORMWATER FACILITIES ARE DESIGNED TO MEET CITY OF EDGEWATER REQUIREMENTS.
5. THE PROPERTY AREA BOUNDARY CONSISTS OF 1.76± ACRES, FOR BOUNDARY AND TOPOGRAPHIC SURVEY, REFER TO THE SURVEY PERFORMED BY UPHAM, INC., PROJECT No. 230813 DATED OCTOBER 25, 2023, INCLUDING ANY UPDATES TO THE ORIGINAL SURVEY.
6. SITE SPECIFIC SUBSOIL GEOTECHNICAL EXPLORATION WAS PERFORMED BY ECS FLORIDA, LLC. PROJECT No. 56:1808, DATED NOVEMBER 08, 2023 AND SHALL BE PART OF THE CONSTRUCTION DOCUMENTS FOR THE GENERAL CONTRACTOR'S USE TO FOLLOW.
7. FLOOD PLAIN CERTIFICATION ACCORDING TO THE FEMA (FEDERAL EMERGENCY MANAGEMENT AGENCY) F.I.R.M (FEDERAL INSURANCE RATE MAP), MAP NUMBER #12127C0685J, COMMUNITY OF CITY OF EDGEWATER, DATED: SEPTEMBER 29, 2017. THE PROPERTY IS IN FLOOD ZONE "X"
8. ELECTRICAL AND TELEPHONE UTILITIES SERVICE WILL BE PROVIDED BY FLORIDA POWER & LIGHT (FP&L) AND AT&T RESPECTIVELY.
9. POTABLE WATER AND WASTEWATER SERVICES WILL BE PRIVATELY OWNED AND MAINTAINED, SERVICE UTILITIES WILL BE PROVIDED BY THE CITY OF EDGEWATER.
11. ANTICIPATED OPERATIONAL HOURS ARE FROM 8 AM TO 8 PM MONDAY THROUGH SATURDAY AND 8 AM TO 6 PM SUNDAY, SUBJECT TO USAGE (300 VEHICLES PER DAY AT 12 HR EQUATES TO 25 VEHICLES PER HOUR ON AVERAGE).

SITE DEVELOPMENT INFORMATION:

1. BUILDING FLOOR AREA = 4,210 SQ. FT.			4. SPORTYS PARKING SUMMARY			PROVIDED	
			EMPLOYEE SPACES			3	
2. EXISTING SITE COVERAGE			PREP SPACES			4	
BUILDING	ACRES	%	VACUUM SPACES			22 (INCLUDES 2 ADA SPACES)	
PAVEMENT (INCL. CURBS, SIDEWALKS & APRONS)	0.05	3.1	HANDICAP SPACES			2	
GREEN / OPEN SPACE	0.36	20.50	TOTAL SPACES =			29	
TOTAL AREA	1.34	76.4	5. BUILDING SETBACK			REQUIRED	PROVIDED
TOTAL AREA	1.76	100.0	FRONT (S. RIDGEWOOD AVE)			40'	44'
TOTAL IMPERVIOUS	0.42	23.6	REAR (EAST)			50'	81'
			SIDE (NORTH)			25'	71'
			SIDE (SOUTH)			25'	135'
3. PROPOSED SITE COVERAGE			6. SITE BUFFER			REQUIRED	PROVIDED
BUILDING	ACRES	%	FRONT (S. RIDGEWOOD AVE)			10'	10'
PAVEMENT (INCL. CURBS, SIDEWALKS & APRONS)	0.10	5.5	REAR (EAST)			30'	30'
GREEN / OPEN SPACE	0.72	41.0	SIDE (NORTH)			0'	5'
TOTAL AREA	0.94	53.5	SIDE (SOUTH)			5'	5'
TOTAL AREA	1.76	100.0	7. AVERAGE UTILITIES USAGE				
TOTAL IMPERVIOUS	0.82	46.5	POTABLE WATER			7,500 GPD	
FLOOR AREA RATIO (FAR) IS (0.10 AC / 1.76 AC) = 0.055			FIRE DEMAND			550 GPM	
MAXIMUM ALLOWED BUILDING HEIGHT	35 FT		SANITARY			7,500 GPD	
MAXIMUM PROPOSED BUILDING HEIGHT	25.5 FT		ELECTRIC			1,200 AMP, 3 PHASE, 4 WIRE, 120/208 V	

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

THE GENERAL CONTRACTOR SHALL ENSURE THAT ANY SUBCONTRACTOR HAS A COMPLETE SET OF CONSTRUCTION DRAWINGS FOR ITS RESPECTIVE WORK. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR SUBCONTRACTORS ONLY UTILIZING INDIVIDUAL DRAWINGS FOR ITS WORK WHERE ADDITIONAL INFORMATION MAY BE CONTAINED ON OTHER DRAWINGS WITHIN THE SET.

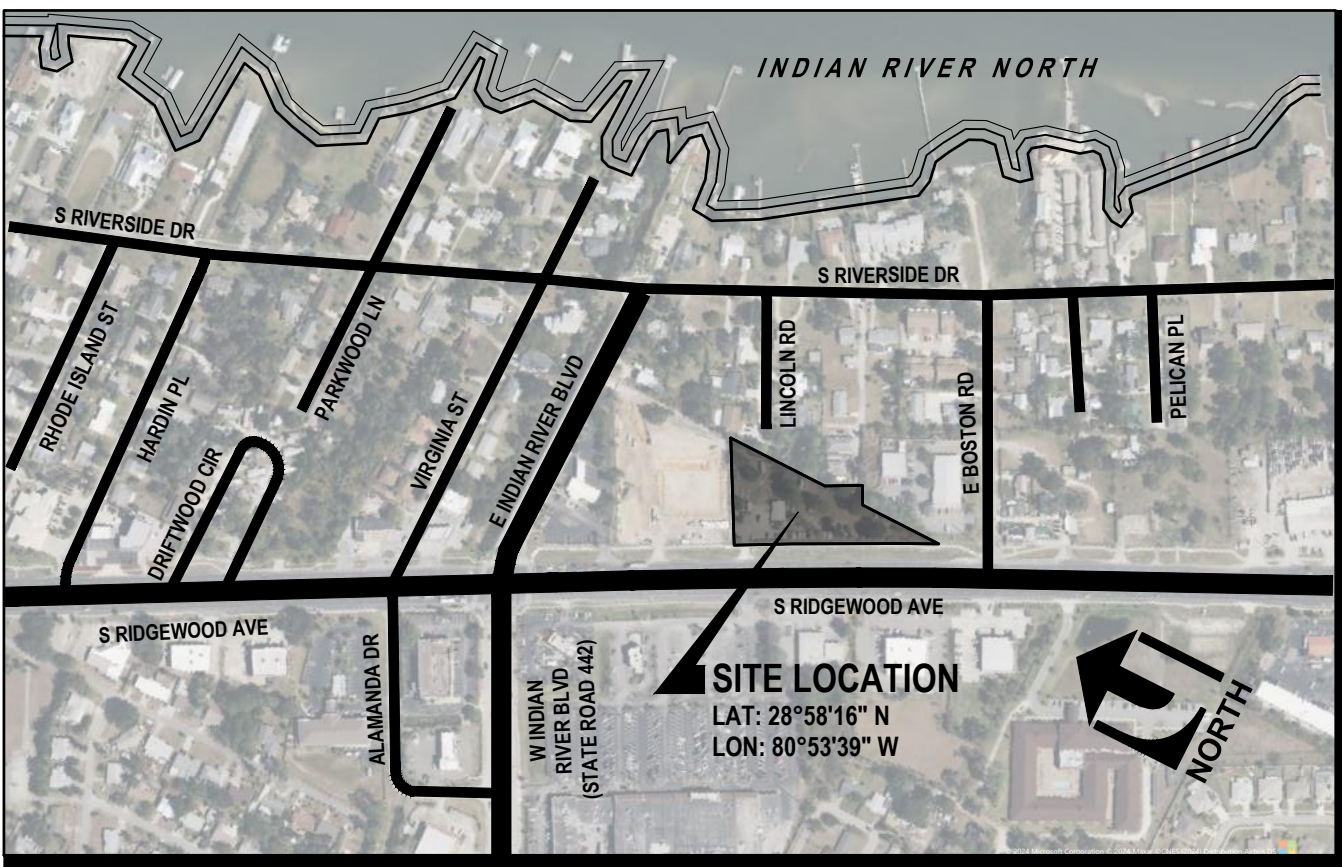
CONSTRUCTION DRAWINGS FOR A PROPOSED SPORTYS CAR WASH



1829 S RIDGEWOOD AVENUE  
EDGEWATER, FLORIDA 32141  
SECTION 2, TOWNSHIP 18 SOUTH, RANGE 34 EAST

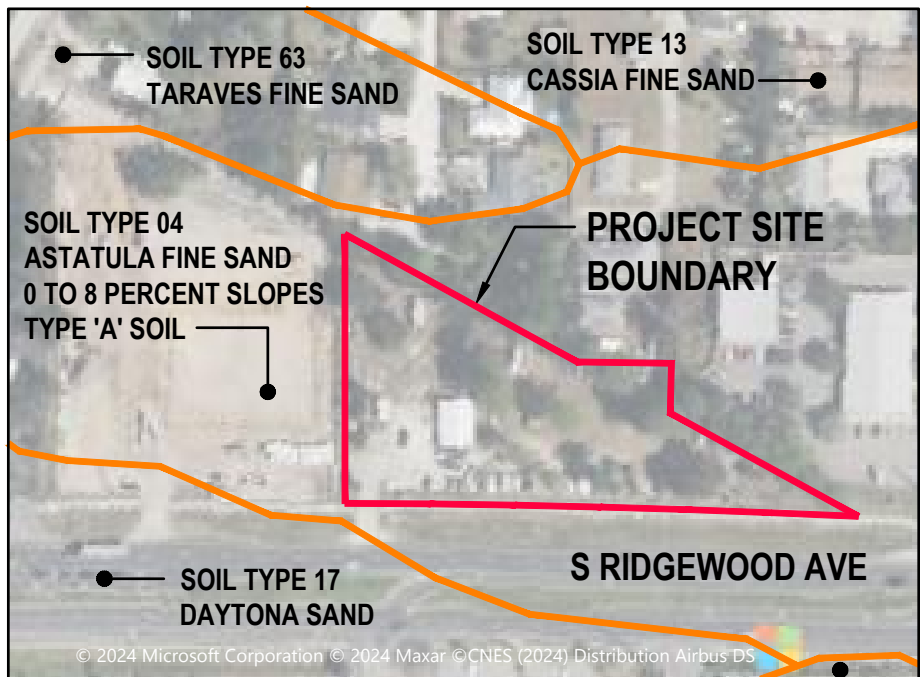
APRIL 16, 2024  
REVISED DECEMBER 09, 2024  
REVISED APRIL 14, 2025

SHT. No.	DESCRIPTION
C000	COVER SHEET
C100	DEVELOPMENT INFORMATION
C200	DEMOLITION AND EROSION CONTROL PLAN
C300	EROSION CONTROL DETAILS AND NOTES
C301	STORMWATER POLLUTION PREVENTION NOTES
C400	SITE LAYOUT AND PAVING PLAN
C401	TRUCK PATH AND MISCELLANEOUS DETAILS
C500	SITE GRADING PLAN
C501	SITE DRAINAGE PLAN
C600	SITE UTILITY PLAN
C700	SECTIONS
C701	FDOT MOT AND CITY OF EDGEWATER DETAILS
C702	CITY OF EDGEWATER STANDARD DETAILS
C703	CITY OF EDGEWATER STANDARD DETAILS
L100	LANDSCAPE PLAN
L101	VEHICLE USE AND BUFFER AREA CALCULATIONS
L102	IRRIGATION PLAN
L103	LANDSCAPE AND IRRIGATION DETAILS
A1	BUILDING FLOOR PLAN
A3	EXTERIOR BUILDING ELEVATIONS
A4	BUILDING SECTIONS
E103	PHOTOMETRIC PLAN AND DETAILS
SU-1	BOUNDARY, TOPO & SPECIAL PURPOSE SURVEY MAP
SU-2	BOUNDARY, TOPO & SPECIAL PURPOSE SURVEY MAP
SU-3	BOUNDARY, TOPO & SPECIAL PURPOSE SURVEY REPORT



LOCATION MAP

SCALE 1" = 500'



SOILS MAP

SCALE: 1" = 200'



FLOOD PLAIN CERTIFICATION ACCORDING TO THE FEMA (FEDERAL EMERGENCY MANAGEMENT AGENCY) F.I.R.M (FEDERAL INSURANCE RATE MAP), MAP NUMBER 12127C0685J, COMMUNITY OF CITY OF EDGEWATER, DATED: SEPTEMBER 29, 2017. THE PROPERTY IS IN FLOOD ZONE "X"

FLOOD ZONE MAP

SCALE: 1" = 200

UTILITY PROVIDER CONTACT:

WATER:  
CITY OF EDGEWATER  
104 N. RIVERSIDE DRIVE  
EDGEWATER, FL 32123  
PHONE: 386.424.2400

SEWER:  
CITY OF EDGEWATER  
104 N. RIVERSIDE DRIVE  
EDGEWATER, FL 32123  
PHONE: 386.424.2400

ELECTRIC:  
FP&L  
3000 SPRUCE CREEK ROAD  
PORT ORANGE, FL 32119  
PHONE: 386.322.3423

TELEPHONE:  
AT&T  
268 N. RIDGEWOOD AVENUE  
DAYTONA BEACH, FL 32114  
PHONE: 386.281.6953

JURISDICTIONAL AGENCY

CITY OF EDGEWATER (DEVELOPMENT PERMIT)  
FLORIDA DEPARTMENT OF TRANSPORTATION (DRIVEWAY)  
FLORIDA DEPARTMENT OF TRANSPORTATION (DRAINAGE)  
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (10-2 STORMWATER)  
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (NPDES)

PERMIT #

SP-2405  
2025-A-591-00008  
2024-D-591-00035  
0447933001EG

NOTE:  
ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS (INDICES), THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.



REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROGER W. STRACULA, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**UPHAM, INC.**  
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**COVER SHEET**  
**SPORTYS CAR WASH**  
1829 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32141

PROJECT No:	231001
DATE:	APRIL 16, 2024
DESIGN BY:	RWS
DRAWN BY:	HMT
CHECKED BY:	RWS
SCALE:	AS SHOWN

SHEET NUMBER:

**C000**



GENERAL CONSTRUCTION NOTES

1.

GOVERNING SPECIFICATIONS: CITY OF EDGEWATER LAND DEVELOPMENT CODE, CITY OF EDGEWATER STANDARD DETAILS AND SPECIFICATIONS, LATEST EDITION, VOLUSIA COUNTY LAND DEVELOPMENT CODE, VOLUSIA COUNTY ENGINEERING AND CONSTRUCTION STANDARDS, LATEST EDITION, AND FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN AND CONSTRUCTION STANDARDS, LATEST EDITION, AND STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION, AND SUPPLEMENTS THERETO IF NOTED IN THE SPECIAL PROVISIONS FOR THIS PROJECT.
2.

ALL UTILITY MATERIAL, CONSTRUCTION AND TESTING COVERED BY THESE DRAWINGS SHALL COMPLY WITH THE CITY OF EDGEWATER STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS, LATEST EDITION. ALL UTILITY WORK AND CONNECTIONS SHALL BE COORDINATED WITH THE CITY OF EDGEWATER INSPECTOR.
3.

THE GENERAL CONTRACTOR SHALL PAY FOR AND OBTAIN A BUILDING PERMIT FOR ALL NON-SITE RELATED IMPROVEMENTS INCLUDING BUT NOT LIMITED TO SIGNAGE, DUMPSTER ENCLOSURE, FENCES AND BUILDING. THE ENGINEER WILL SCHEDULE THE PRECONSTRUCTION CONFERENCE BEFORE ANY WORK CAN COMMENCE (NO EXCEPTIONS). THE GENERAL CONTRACTOR SHALL CONTACT THE BUILDING DEPARTMENT AT (386) 424-2400 FOR INFORMATION ON ISSUANCE OF CITY PERMITS AND / OR OTHER REQUIREMENTS.
4.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DEFICIENCIES OR DISCREPANCIES AMONG THE DIVISIONS OF THE DRAWING AND SPECIFICATIONS PRIOR TO THE BID DATE. NEITHER THE OWNER OR ENGINEER WILL BE RESPONSIBLE FOR ANY DEFICIENCIES OR DISCREPANCIES RAISED AFTER THE BID OPENING. ACCORDINGLY, IN LIGHT OF THESE OBLIGATIONS, THE ENGINEER IS OBLIGATED TO INTERPRET THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT WILL PROVIDE THE OWNER WITH A COMPLETE, FUNCTIONING FACILITY FOR THE BID PRICE.
5.

THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLEMENTARY, AND ANY REQUIREMENT OF ONE SHALL BE A REQUIREMENT OF THE OTHER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS AND TO COMPARE THE REQUIREMENTS OF EACH DIVISION AND ENSURE THAT EACH TRADE OR SUBCONTRACTOR IS MAKING THE ALLOWANCES NECESSARY TO PROVIDE THE OWNER A COMPLETE FACILITY, OPERATIONAL IN ALL RESPECTS, UNLESS OTHERWISE SPECIFICALLY STATED IN THE DRAWINGS.
6.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INSTRUCTING THE CONTRACTOR IN THE METHODS OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE METHOD TO CONSTRUCT THE IMPROVEMENTS AS SHOWN ON THE DRAWINGS.
7.

ONLY ONE TEMPORARY CONSTRUCTION SIGN IS PERMITTED, NOT TO EXCEED 48 SQUARE FEET IN SIGN AREA, MAXIMUM HEIGHT OF 8 FEET AND NO CLOSER THAN 5 FT FROM PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL APPLY FOR A TEMPORARY SIGN PERMIT AT THE CITY OF EDGEWATER BUILDING DEPARTMENT. THE SIGN MUST BE REMOVED UPON RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
8.

CONSTRUCTION NOISE IS RESTRICTED TO NO GREATER THAN 60 dBA BETWEEN THE HOURS OF 7 AM AND 10 PM AND NO GREATER THAN 50 dBA BETWEEN THE HOURS OF 10 PM AND 7 AM DAILY.
9.

NIGHT TIME CONSTRUCTION LIGHTING SHALL BE RESTRICTED TO NO MORE THAN 1.0 FT-CANDLE AT THE PROPERTY BOUNDARY.
10.

LITTER CONTROL MEASURES TO PREVENT WIND-DRIVEN DEBRIS SHALL BE IMPLEMENTED THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEBRIS SHALL BE REMOVED AND THE PROJECT SITE CLEANED WITHIN 5 DAYS OF COMPLETION OF CONSTRUCTION.
11.

AT NO TIME SHALL EXCAVATIONS BE LEFT UNCOVERED AFTER WORKING HOURS. CONTRACTOR SHALL SECURE THE WORK AREA AT THE END OF EACH DAY'S WORK.
12.

AT ALL TIMES, THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT UNDERGROUND UTILITIES, STRUCTURES AND OTHER ASSOCIATED FACILITIES FROM DAMAGE DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEASURES OF PROTECTION. ANY DAMAGED FACILITIES SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE CITY INSPECTOR OR ENGINEER AT THE CONTRACTOR'S EXPENSE.
13.

THERE SHALL BE NO DEVIATIONS FROM THESE DRAWINGS UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD AND THE OWNER.
14.

THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
15.

THE CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED WITH THE PROJECT AND PAY ALL REQUIRED FEES AND COSTS.
16.

FILL MATERIAL SHALL BE CLASSIFIED AS A-1, A-3 OR A-1-4 IN ACCORDANCE WITH AASHTO M-145 AND SHALL BE FREE FROM VEGETATION AND ORGANIC MATERIAL. NOT MORE THAN 12% BY WEIGHT OF FILL MATERIAL SHALL PASS THE NO. 200 SIEVE.
17.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF THE RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER, TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND BASE DENSITIES AT UTILITY CROSSINGS, MANHOLES, INLETS, STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC.
18.

WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.
19.

PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.
20.

ALL PROPOSED ELEVATIONS REFER TO FINISHED GRADES. THE VERTICAL DATUM IS BASED ON 1988 NAVD. REFER TO THE TOPOGRAPHIC SURVEY FOR PROJECT BENCHMARKS.
21.

CONCRETE WALKS SHALL BE 4 INCHES THICK HAVING A 3,000 PSI STRENGTH, POURED OVER PROPERLY PREPARED SUBGRADE. ALL CONCRETE SIDEWALKS SHALL BE 8 INCHES THICK ACROSS DRIVEWAYS. 1/2 INCH EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 50'. CRACK CONTROL JOINTS SHALL BE 5' ON CENTERS. REBAR REQUIRED PER CITY OF EDGEWATER STANDARD CONSTRUCTION DETAIL M-6 AND M-6.1.
22.

CORE TESTS SHALL BE TAKEN TO VERIFY THICKNESS AND SUBSURFACE COMPACTION. PROVIDE FOR THREE SAMPLES, RANDOMLY LOCATED. TEST FOR EXTRACTION, GRADATION, LABORATORY DENSITY, AND MARSHALL'S STABILITY. PROVIDE A CERTIFICATE FROM THE TESTING AGENCY THAT MATERIALS AND INSTALLATION COMPLY WITH SPECIFICATIONS, SIGNED BY THE ASPHALTIC CONCRETE PRODUCER AND CONTRACTOR. ALL COSTS OF TESTS SHALL BE PAID BY THE CONTRACTOR. IF TESTS SHOW THE INSTALLATION DOES NOT MEET SPECIFICATIONS, THE PAVING SHALL BE REMOVED, REPLACED, AND RETESTED.
23.

IF ANY MUCK-LIKE MATERIAL IS DISCOVERED, IT WILL BE REQUIRED TO BE REMOVED, BACKFILLED WITH APPROPRIATE FILL, COMPACTED, AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.
24.

FILL MATERIAL IS TO BE PLACED IN NO MORE THAN ONE FOOT LOOSE LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (98% FOR PAVED AREAS AND BUILDING PADS, PER AASHTO T-180) OR AS SPECIFIED IN THE SPECIFICATIONS, WHICHEVER IS GREATER.
25.

NO BURYING OF ANY ORGANIC MATERIALS ALLOWED.
26.

ALL CONSTRUCTION IN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS (INDICES), THE FDOT STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.

LEGEND

NOTE: NOT ALL SYMBOLS SHOWN HERE MAY BE APPLICABLE TO THESE DRAWINGS, ALSO THERE MAY BE ADDITIONAL SYMBOLS WITHIN PLANS NOT SHOWN HERE, SEE INDIVIDUAL DRAWING LEGEND WHERE APPLICABLE.

	BENCHMARK ID		EXISTING EASEMENT
	BORING ID		EXISTING UNDERGROUND FIBER OPTIC CABLE
	EXISTING TELEPHONE PEDESTAL		EXISTING FORCE MAIN (# INDICATES SIZE)
	EXISTING CAP OR PLUG		PROPOSED FORCE MAIN (# INDICATES SIZE)
	EXISTING CONDUIT RISER/ MARKER		EXISTING GAS MAIN
	EXISTING ELECTRIC METER		EXISTING OVERHEAD ELECTRIC CABLES
	EXISTING ELEVATION (SOFT)		EXISTING OVERHEAD TRAFFIC SIGNAL CABLE
	PROPOSED ELEVATION (SOFT)		EXISTING RAW WATER MAIN (# INDICATES SIZE)
	EXISTING ELEVATION (HARD)		EXISTING RECLAIM WATER MAIN (# INDICATES SIZE)
	PROPOSED ELEVATION (HARD)		EXISTING CONTOUR
	EXISTING FIRE HYDRANT		PROPOSED CONTOUR (SOFT)
	PROPOSED FIRE HYDRANT		PROPOSED CONTOUR (HARD)
	EXISTING FLOW DIRECTION		EXISTING UNDERGROUND TELEPHONE CABLE
	PROPOSED FLOW DIRECTION		EXISTING UNDERGROUND TELEVISION CABLE
	EXISTING GAS METER		EXISTING UNDERGROUND ELECTRICAL POWER CABLE
	EXISTING GAS VALVE		JURISDICTIONAL WETLAND LINE
	EXISTING GUY WIRE & ANCHOR PIN		EXISTING SANITARY SEWER (# INDICATES SIZE)
	EXISTING MAIL BOX		PROPOSED SANITARY SEWER (# INDICATES SIZE)
	EXISTING MANHOLE (UNKNOWN)		EXISTING WATER MAIN (# INDICATES SIZE)
	PROPOSED MANHOLE		PROPOSED WATER MAIN (# INDICATES SIZE)
	EXISTING SANITARY SEWER CLEANOUT		EXISTING PIPE OR CONDUIT (TYPE SPECIFIED)
	PROPOSED SANITARY SEWER CLEANOUT		APPROXIMATE SOILS BOUNDARY
	EXISTING SANITARY SEWER MANHOLE		EXISTING SWALE OR CENTER OF DITCH
	EXISTING ROAD SIGNS AND POSTS		PROPOSED SWALE OR CENTER OF DITCH
	PROPOSED SIGN AND POST		EXISTING TOP OF DITCH BANK
	EXISTING TEE		EXISTING BOTTOM OF DITCH BANK
	EXISTING UTILITY POLE		EXISTING WOOD FENCE
	EXISTING VALVE IRRIGATION		EXISTING WIRE OR CHAIN LINK FENCE
	EXISTING VALVE WATER		PROPOSED CHAIN LINK FENCE
	PROPOSED WATER VALVE		PROPOSED SEDIMENT FENCE
	EXISTING WATER METER		PROPOSED COIR ROLL OR WATTLE
	EXISTING STORM SEWER WITH INLET		PROPOSED WIRE FENCE
	PROPOSED STORM SEWER WITH INLET		PROPOSED TREE PROTECTION
	PROPOSED STORM INLET WITH APRON AND CURB		
	PROPOSED STORM INLET WITH ROUND STRUCTURE BOTTOM		
	PROPOSED CURB INLET (TYPE 9)		
	PROPOSED STORM ENDWALL WITH BAFFLES		
	FOUND 1/2" CAPPED IRON ROD L.B. #3724		
	FOUND 1/2" IRON ROD (NO I.D.)		
	FOUND 1/2" CAPPED IRON ROD L.B. #3724 (WITNESS MONUMENT)		
	FOUND 4" BY 4" CONCRETE MONUMENT L.B. #3724		
	PROPOSED SITE LIGHTS (SEE PHOTOMETRIC DRAWINGS)		

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION  
ROADWAY AND TRAFFIC DESIGN STANDARDS FY 2025-26  
AND QUALIFIED PRODUCTS LIST

INDEX NO.	DESCRIPTION
102-600	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
102-613	MULTILANE ROADWAY, LANE CLOSURES
102-660	SIDEWALK CLOSURE
350-001	CONCRETE PAVEMENT JOINTS
425-010	STRUCTURE BOTTOMS - TYPE J AND P
425-020	CURB INLET TOPS - TYPES 1, 2, 3 AND 4
425-052	DITCH BOTTOM INLETS - TYPES C, D, E AND H
425-053	DITCH BOTTOM INLETS - TYPES F AND G
430-021	CROSS DRAIN MITERED END SECTION
520-001	CURB AND GUTTER
522-001	CONCRETE SIDEWALK
522-002	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS
570-001	PERMANENT EROSION CONTROL
700-101	TYPICAL SECTIONS FOR PLACEMENT OF SINGLE & MULTIPLE-COLUMN SIGNS
711-001	PAVEMENT MARKINGS

LEGAL DESCRIPTION:

A PORTION OF U.S. LOT 3, SECTION 2, TOWNSHIP 18 SOUTH, RANGE 34 EAST, LYING EAST OF U.S. HIGHWAY NO. 1, A 158 FOOT RIGHT-OF-WAY AS NOW LAID OUT, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE INTERSECTION OF THE SOUTH RIGHT-OF-WAY OF INDIAN RIVER BOULEVARD AND THE EASTERLY RIGHT-OF-WAY OF INDIAN RIVER BOULEVARD AND THE EASTERLY RIGHT-OF-WAY OF U. S. HIGHWAY NO. 1; THENCE SOUTH 29 DEGREES 2 MINUTES 14 SECONDS EAST ALONG SAID EASTERLY RIGHT-OF-WAY, A DISTANCE OF 535.13 FEET TO THE P.T. OF A CURVE CONCAVE TO THE WEST AND HAVING A RADIUS OF 11584.2 FEET; THENCE SOUTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 0 DEGREES 02 MINUTES 19 SECONDS, AN ARC LENGTH OF 7.83 FEET FOR THE POINT OF BEGINNING; THENCE NORTH 60 DEGREES 57 MINUTES 45 SECONDS EAST, A DISTANCE OF 279.02 FEET TO THE EAST LINE OF SAID U.S. LOT 3; THENCE SOUTH 0 DEGREES 16 MINUTES 20 SECONDS EAST ALONG SAID EAST LINE A DISTANCE OF 171.12 FEET; THENCE SOUTH 60 DEGREES 57 MINUTES 45 SECONDS WEST, A DISTANCE OF 198.78 FEET TO THE EASTERLY RIGHT-OF-WAY OF U.S. HIGHWAY NO. 1; THENCE NORTHERLY ALONG A CURVE CONCAVE TO THE WEST AND HAVING A RADIUS OF 11584.2 FEET AND A CENTRAL ANGLE OF 0 DEGREES 44 MINUTES 31 SECONDS, AN ARC LENGTH OF 150.00 FEET TO THE POINT OF BEGINNING, BEING IN VOLUSIA COUNTY, FLORIDA.

AND

A PORTION OF LOT 6, BLOCK 2, RIVEREDGE ACRES, AS RECORDED IN MAP BOOK 9, PAGE 260 OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA; BEING DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHWEST CORNER OF SAID LOT 6; THENCE RUN SOUTH 0°16'20" EAST ALONG THE WEST LINE OF SAID LOT 6, A DISTANCE OF 110.82 FEET TO THE SOUTHWEST CORNER OF SAID LOT 6; THENCE NORTH 61°51'40" EAST ALONG THE SOUTHERLY LINE OF SAID LOT 6, A DISTANCE OF 51.71 FEET; THENCE NORTH 28°08'20" WEST, A DISTANCE OF 97.79 FEET TO THE POINT OF BEGINNING.

AND

A PORTION OF U.S. LOT 3, SECTION 2, TOWNSHIP 18 SOUTH, RANGE 34 EAST, LYING EAST OF U.S. HIGHWAY NO. 1, A 158 FOOT RIGHT OF WAY AS NOW LAID OUT; BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE INTERSECTION OF THE SOUTH RIGHT OF WAY OF INDIAN RIVER BOULEVARD AND THE EASTERLY RIGHT OF WAY OF U.S. HIGHWAY NO. 1; THENCE SOUTH 29°02'14" EAST ALONG SAID EASTERLY RIGHT OF WAY, A DISTANCE OF 535.13 FEET TO THE P.T. OF A CURVE CONCAVE TO THE WEST AND HAVING A RADIUS OF 11584.2 FEET; THENCE SOUTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 0°46'50", AN ARC LENGTH OF 157.83 FEET FOR THE POINT OF BEGINNING; THENCE NORTH 60°57'45" EAST, A DISTANCE OF 198.78 FEET TO THE EAST LINE OF SAID U.S. LOT 3; THENCE SOUTH 0°16'20" EAST ALONG SAID EAST LINE, A DISTANCE OF 439.30 FEET TO A POINT ON THE EASTERLY RIGHT OF WAY OF U.S. HIGHWAY NO. 1; THENCE NORTH 27°20'54" WEST, A DISTANCE OF 81.59 FEET TO THE P.C. OF A CURVE CONCAVE TO THE WEST AND HAVING A RADIUS OF 11584.2 FEET; THENCE NORTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 1°30'10", AN ARC LENGTH OF 303.84 FEET TO THE POINT OF BEGINNING.

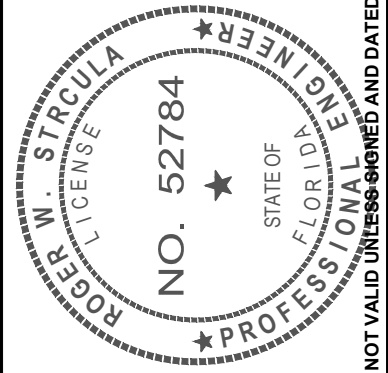
PARCEL IDENTIFICATION No.: 8402-00-00-0040 AK 3904818

ABBREVIATIONS

AWWA	AMERICAN WATER WORKS ASSOCIATION	GW	GROUND WATER	PVMT	PAVEMENT
CMP	CORRUGATED METAL PIPE	HIC	HANDICAP	R	RADIUS
CPP	CORRUGATED PLASTIC PIPE	HDPE	HIGH DENSITY POLYETHYLENE	RCP	REINFORCED CONCRETE PIPE
CTV	CABLE TELEVISION	INV	INVERT	RPM	REFLECTIVE PAVEMENT MARKER
DIP	DUCTILE IRON PIPE	KH	HORIZONTAL PERMEABILITY	R/W	RIGHT-OF-WAY
ESMT	EASEMENT	KV	VERTICAL PERMEABILITY	SAN	SANITARY
EXIST	EXISTING	KO	KNOCK OUT	SH	SEASONAL HIGH
FAC	FLORIDA ADMINISTRATIVE CODE	LF	LINEAL FEET	SMH	SANITARY MANHOLE
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	MB	MAP BOOK	SS	SANITARY SEWER
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	MES	MITERED END SECTION	SURWMD	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	MJ	MECHANICAL JOINT	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
FH	FIRE HYDRANT	N/A	NOT APPLICABLE	TSB	TEMPORARY SEDIMENT BASIN
FOC	FIBER OPTIC CABLE	NIC	NOT IN CONTRACT	TP	TYPICAL
FF EL	FINISH FLOOR ELEVATION	NAV	NORTH AMERICAN VERTICAL DATUM	UGE	UNDERGROUND ELECTRIC
FM	FORCE MAIN	OHE	OVERHEAD ELECTRIC	UGT	UNDERGROUND TELEPHONE
FP&L	FLORIDA POWER AND LIGHT	PG	OFFICIAL RECORD	USACOE	UNITED STATES ARMY CORP OF ENGINEERS
G	GAS	PSI	POUNDS PER SQUARE INCH	W	WATER (POTABLE)
		PVC	POLYVINYL CHLORIDE		

REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25



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UPHAM INC.

CIVIL ENGINEERING-SURVEYING-LANDSCAPE ARCHITECTURE

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LB # 0003612

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DEVELOPMENT INFORMATION

SPORTYS CAR WASH

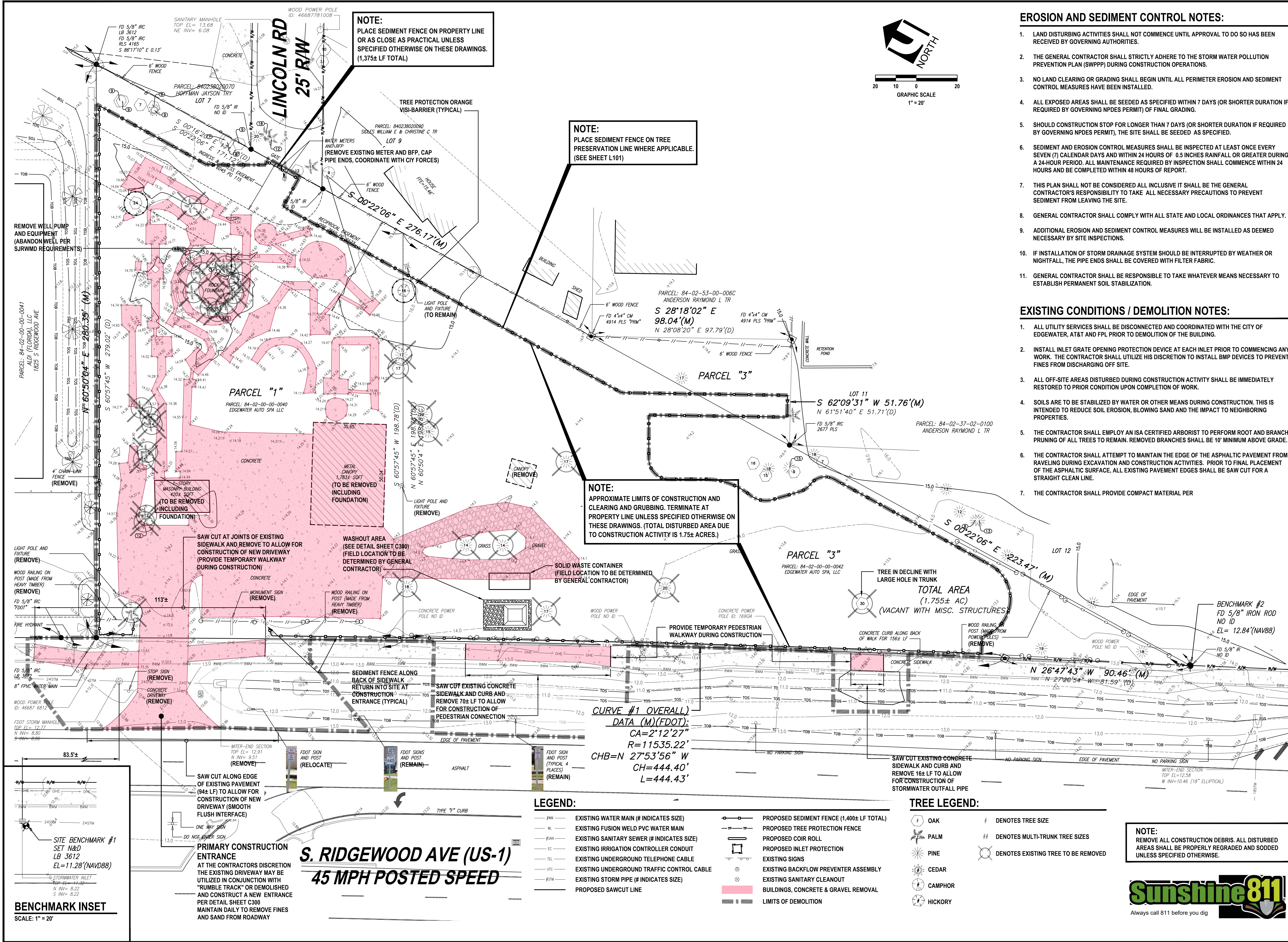
1829 S RIDGEWOOD AVENUE (US-1)

EDGEWATER, FLORIDA 32141

PROJECT No:	231001
DATE:	APRIL 16, 2024
DESIGN BY:	RWS
DRAWN BY:	HMT
CHECKED BY:	RWS
SCALE:	AS SHOWN

SHEET NUMBER:  
**C100**





EROSION AND SEDIMENT CONTROL NOTES:

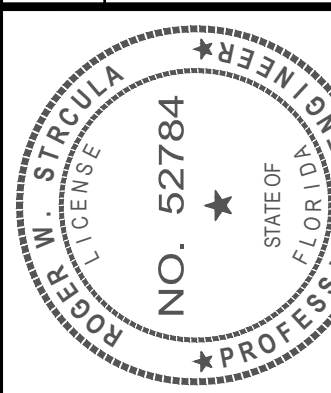
1. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES.
2. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DURING CONSTRUCTION OPERATIONS.
3. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
4. ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 7 DAYS (OR SHORTER DURATION IF REQUIRED BY GOVERNING NPDES PERMIT) OF FINAL GRADING.
5. SHOULD CONSTRUCTION STOP FOR LONGER THAN 7 DAYS (OR SHORTER DURATION IF REQUIRED BY GOVERNING NPDES PERMIT), THE SITE SHALL BE SEEDED AS SPECIFIED.
6. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF 0.5 INCHES RAINFALL OR GREATER DURING A 24-HOUR PERIOD. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.
7. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
8. GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
9. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED AS DEEMED NECESSARY BY SITE INSPECTIONS.
10. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
11. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.

EXISTING CONDITIONS / DEMOLITION NOTES:

1. ALL UTILITY SERVICES SHALL BE DISCONNECTED AND COORDINATED WITH THE CITY OF EDGEWATER, AT&T AND FPL PRIOR TO DEMOLITION OF THE BUILDING.
2. INSTALL INLET GRATE OPENING PROTECTION DEVICE AT EACH INLET PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR SHALL UTILIZE HIS DISCRETION TO INSTALL BMP DEVICES TO PREVENT FINES FROM DISCHARGING OFF SITE.
3. ALL OFF-SITE AREAS DISTURBED DURING CONSTRUCTION ACTIVITY SHALL BE IMMEDIATELY RESTORED TO PRIOR CONDITION UPON COMPLETION OF WORK.
4. SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION, BLOWING SAND AND THE IMPACT TO NEIGHBORING PROPERTIES.
5. THE CONTRACTOR SHALL EMPLOY AN ISA CERTIFIED ARBORIST TO PERFORM ROOT AND BRANCH PRUNING OF ALL TREES TO REMAIN. REMOVED BRANCHES SHALL BE 10' MINIMUM ABOVE GRADE.
6. THE CONTRACTOR SHALL ATTEMPT TO MAINTAIN THE EDGE OF THE ASPHALTIC PAVEMENT FROM RAVELING DURING EXCAVATION AND CONSTRUCTION ACTIVITIES. PRIOR TO FINAL PLACEMENT OF THE ASPHALTIC SURFACE, ALL EXISTING PAVEMENT EDGES SHALL BE SAW CUT FOR A STRAIGHT CLEAN LINE.
7. THE CONTRACTOR SHALL PROVIDE COMPACT MATERIAL PER

REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25



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**DEMOLITION AND EROSION CONTROL PLAN**

**SPORTYS CAR WASH**  
1825 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32174

PROJECT No: 231001  
DATE: APRIL 16, 2024  
DESIGN BY: RWS  
DRAWN BY: HMT / HMT  
CHECKED BY: RWS  
SCALE: 1" = 20'  
SHEET NUMBER:  
**C200**

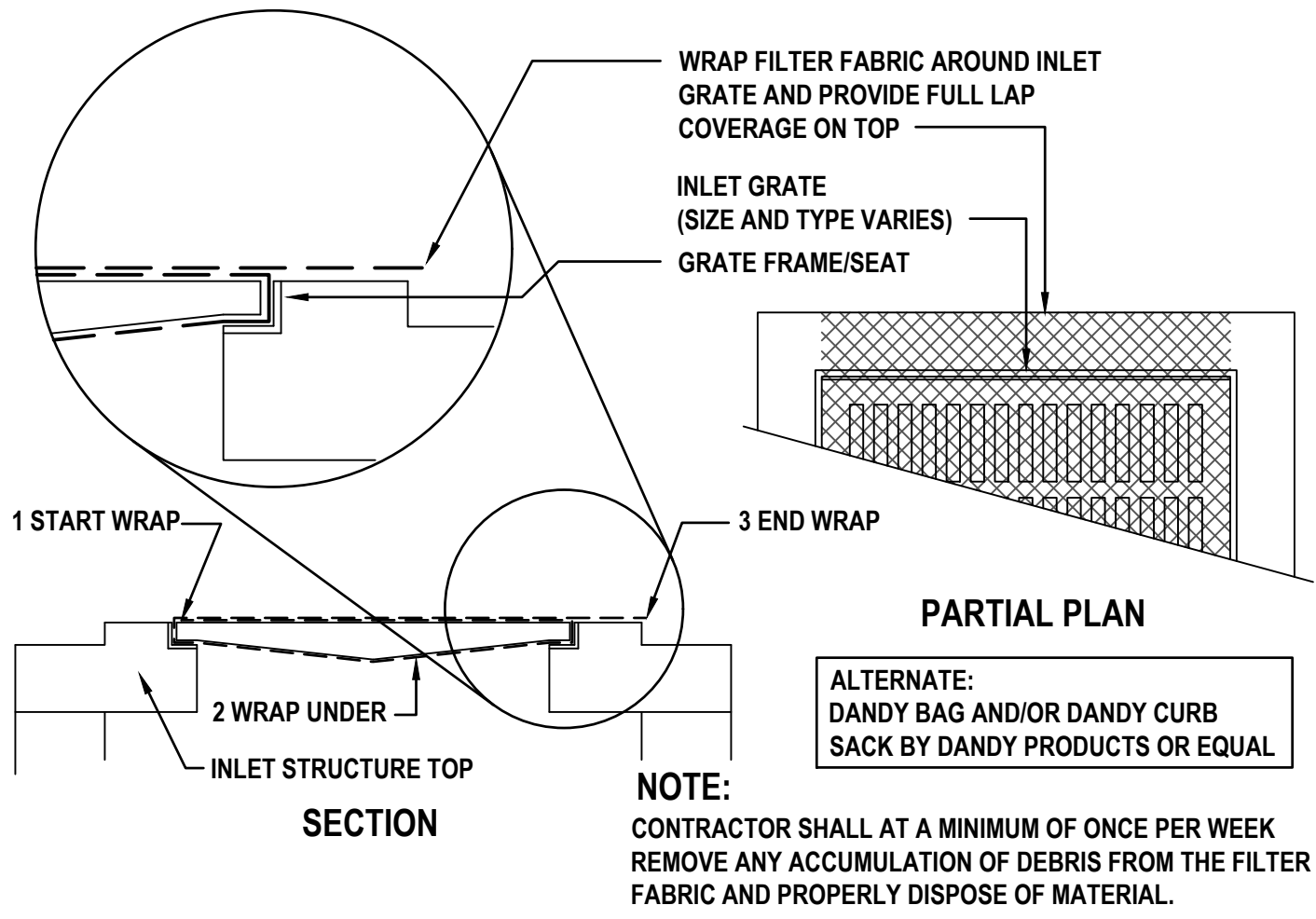
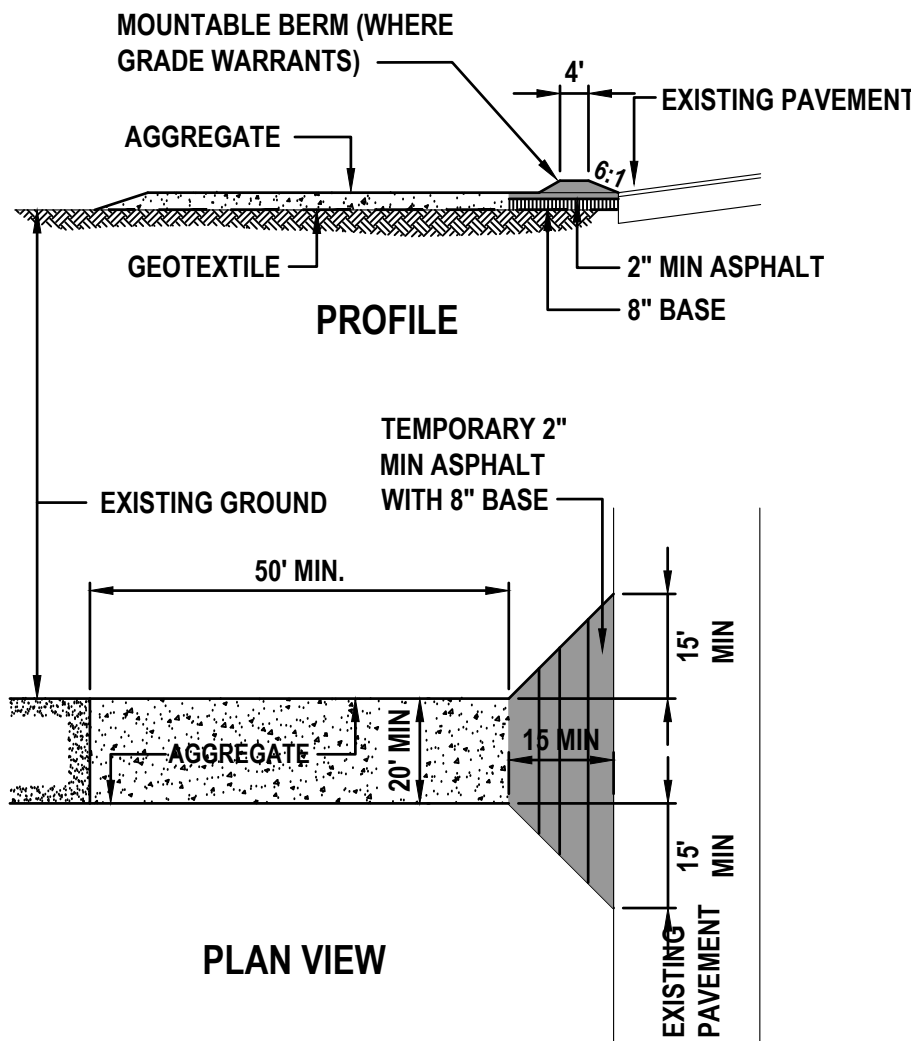


NOTES:

1. STONE SIZE - #2 COARSE AGGREGATE, OR RECLAIMED/RECYCLED CONCRETE.
2. LENGTH - AS EFFECTIVE BUT NOT LESS THAN 50'
3. DEPTH - 8" MINIMUM (COMPACTED)
4. WIDTH - 20' MINIMUM
5. GEOTEXTILE - 100% POLYPROPYLENE, 4 OZ/SY OVER THE ENTIRE AREA PRIOR TO PLACEMENT OF AGGREGATE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 6:1 SLOPES IS ACCEPTABLE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. MAINTAIN PERIODIC TOP DRESSING OF ADDITIONAL AGGREGATE AS CONDITIONS REQUIRE AND REPAIR AND/OR CLEANOUT ANY AREAS USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT POND OR SWALE.
9. INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN OR WEEKLY AT A MINIMUM.

CONSTRUCTION ENTRANCE DETAIL

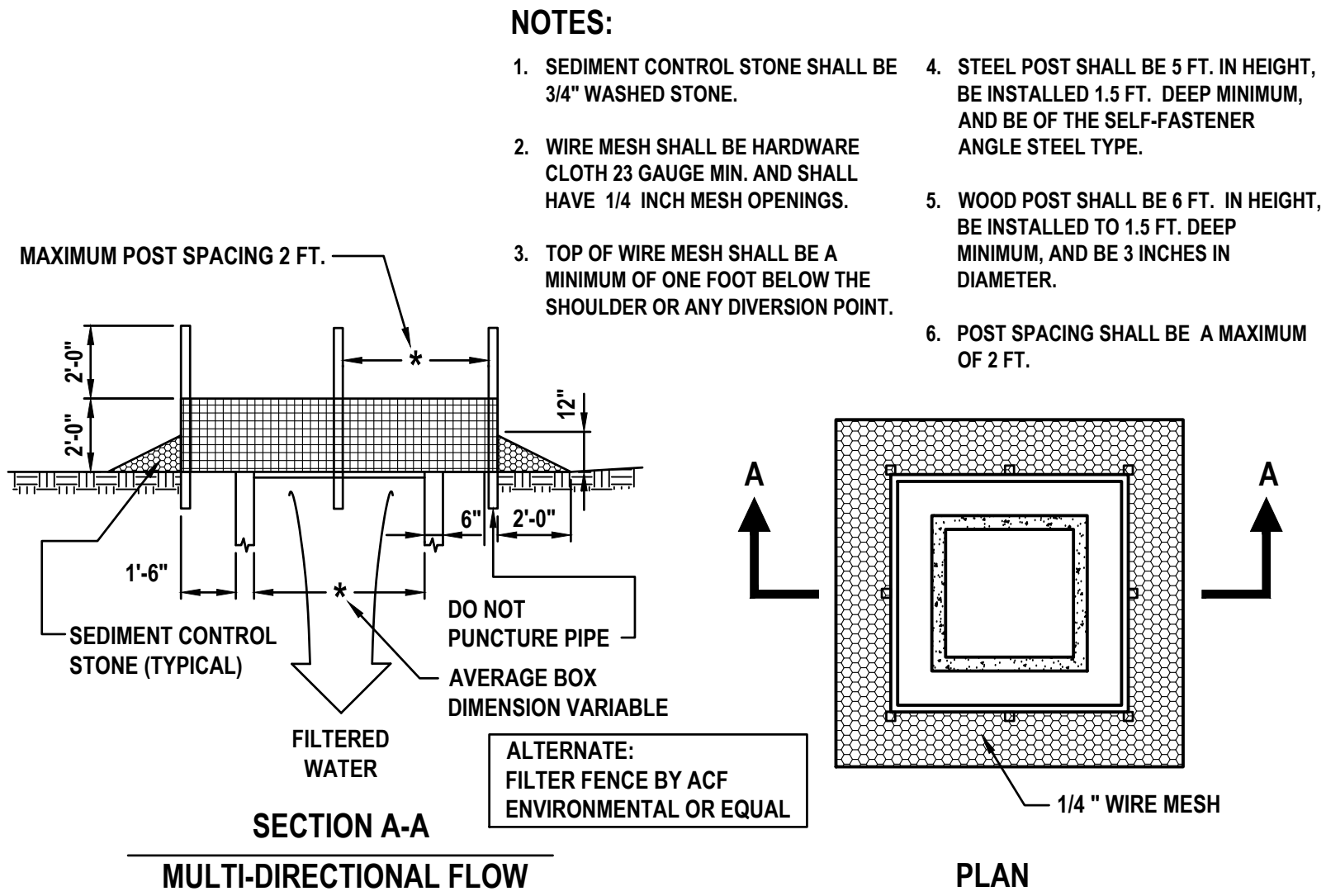
NOT TO SCALE



INLET SILT PROTECTION DETAIL

NOT TO SCALE

UTILIZE WHEN TOP AND GRATE ARE INSTALLED WITH STRUCTURE



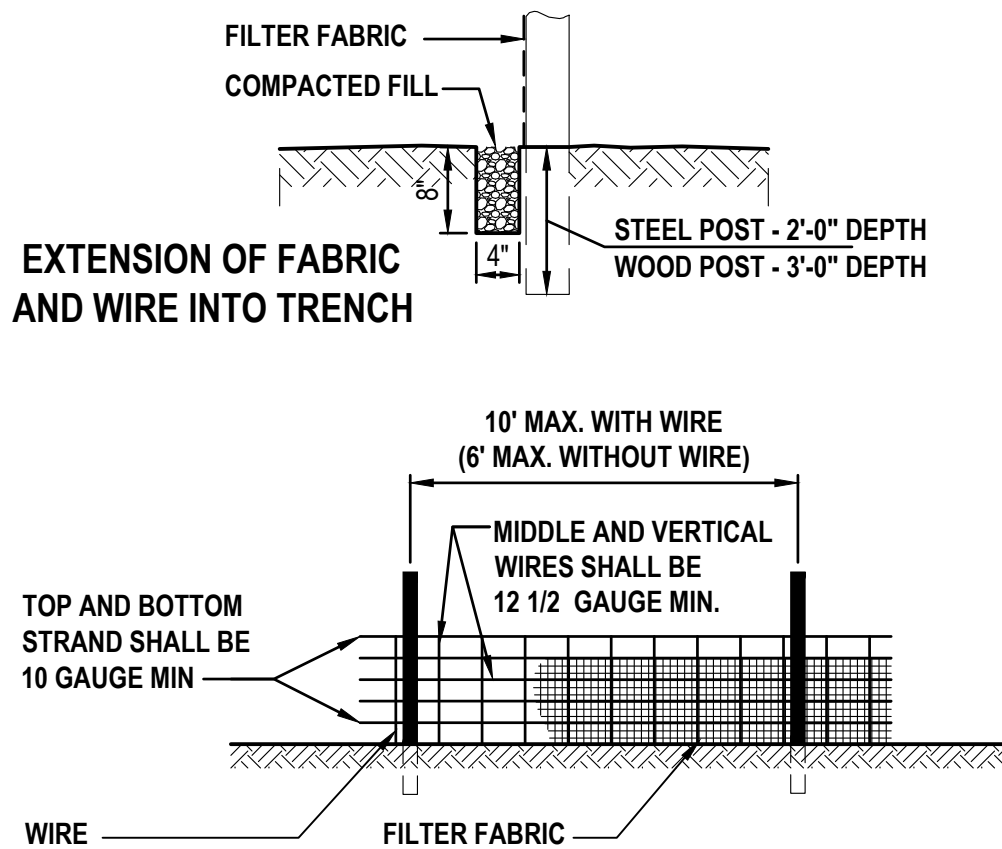
INLET PROTECTION

NOT TO SCALE

UTILIZE WHEN TOP AND GRATE ARE NOT INSTALLED WITH STRUCTURE

NOTES:

1. WWM MINIMUM OF 32" WIDTH WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. FILTER FABRIC SHALL BE 36" WIDE AND SHALL BE FASTENED ADEQUATELY TO THE WIRE.
3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WOOD POST SHALL BE 5'-0" IN HEIGHT AND 2" IN DIAMETER.
5. SUPPORT POST SHALL BE INSTALLED ON THE DOWNHILL SIDE OF THE SEDIMENT FENCE (DOWNSTREAM FROM EXPECTED FLOWS)
6. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN 25% THE HEIGHT OF FENCE.
7. MAXIMUM DRAINAGE AREA 10,000 SF PER 100' OF FENCE.

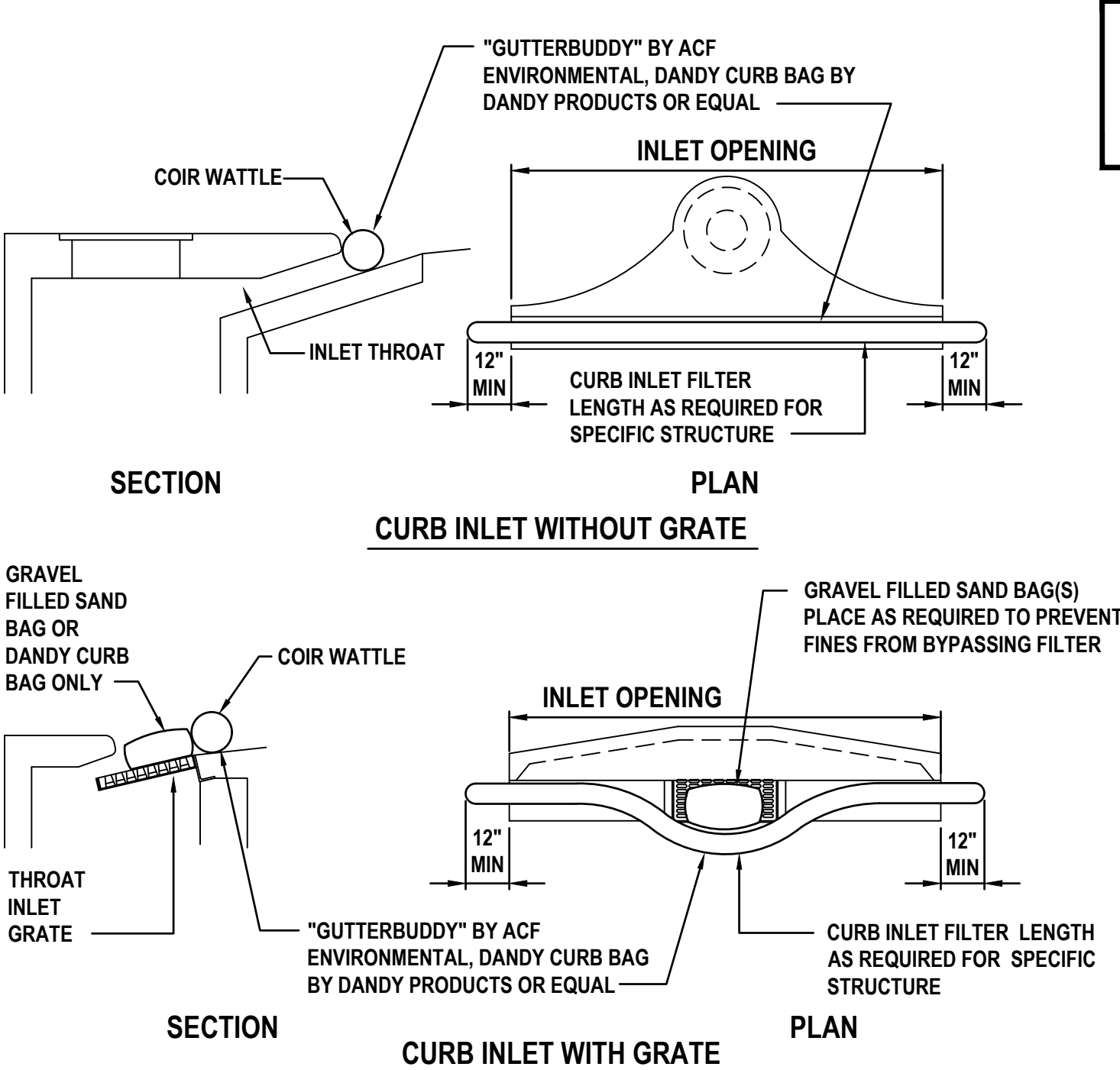


SEDIMENT FENCE DETAIL

NOT TO SCALE

GENERAL CONSTRUCTION NOTES

1. MEASURES SHALL BE IMPLEMENTED AT THE CONTRACTOR'S DISCRETION TO VISIBLY BARRICADE THE WORK AREA AND PROVIDE SAFE MEANS OF INGRESS AND EGRESS AROUND THE CONSTRUCTION SITE.
2. THE ENGINEER DOES NOT WARRANT THE CONTRACTOR'S MEANS OR METHODS FOR ITS INTERPRETATION OF THE REPAIR WORK. THE CONTRACTOR SHALL UTILIZE ITS DISCRETION TO DETERMINE ITS BEST METHOD TO PERFORM THE WORK TO CORRECT THE DRAINAGE PONDING.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES AND SHALL RESTORE ALL AREAS DAMAGED DUE TO CONSTRUCTION ACTIVITIES
4. PAVEMENT EDGES SHALL BE NEAT AND FREE OF DAMAGE OR BROKEN EDGES AT TIME OF PLACEMENT OF NEW ASPHALTIC PAVEMENT.
5. UPON COMPLETION OF ALL WORK, THE AREA SHALL BE SWEEP CLEAN OF ALL SAND AND DEBRIS.
6. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR ITS FINAL INSPECTION AND ACCEPTANCE.
7. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED PRIOR TO ANY INSTALLATION OF PLANTS OR TREES.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DEFICIENCIES OR DISCREPANCIES AMONG THE DIVISIONS OF THE DRAWING AND SPECIFICATIONS PRIOR TO THE BID DATE. NEITHER THE OWNER OR ENGINEER WILL BE RESPONSIBLE FOR ANY DEFICIENCIES OR DISCREPANCIES RAISED AFTER THE BID OPENING. ACCORDINGLY, IN LIGHT OF THESE OBLIGATIONS, THE ENGINEER IS OBLIGATED TO INTERPRET THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT WILL PROVIDE THE OWNER WITH A COMPLETE, FUNCTIONING FACILITY FOR THE BID PRICE.
9. THESE DRAWINGS AND THE PROJECT MANUAL ARE COMPLEMENTARY, AND ANY REQUIREMENT OF ONE SHALL BE A REQUIREMENT OF THE OTHER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS AND TO COMPARE THE REQUIREMENTS OF EACH DIVISION AND ENSURE THAT EACH TRADE OR SUBCONTRACTOR IS MAKING THE ALLOWANCES NECESSARY TO PROVIDE THE OWNER A COMPLETE FACILITY, OPERATIONAL IN ALL RESPECTS, UNLESS OTHERWISE SPECIFICALLY STATED IN THE DRAWINGS.
10. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INSTRUCTING THE CONTRACTOR IN THE METHODS OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE METHOD TO CONSTRUCT THE IMPROVEMENTS AS SHOWN ON THE PLANS.
11. LITTER CONTROL MEASURES TO PREVENT WIND-DRIVEN DEBRIS SHALL BE IMPLEMENTED THROUGHOUT THE DURATION OF CONSTRUCTION. ALL DEBRIS SHALL BE REMOVED AND THE PROJECT SITE CLEANED WITHIN 5 DAYS OF COMPLETION OF CONSTRUCTION.
12. AT NO TIME SHALL EXCAVATIONS BE LEFT UNCOVERED AFTER WORKING HOURS. CONTRACTOR SHALL SECURE THE WORK AREA AT THE END OF EACH DAY'S WORK.
13. AT ALL TIMES, THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT UNDERGROUND UTILITIES, STRUCTURES AND OTHER ASSOCIATED FACILITIES FROM DAMAGE DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE MEASURES OF PROTECTION. ANY DAMAGED FACILITIES SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION OR ENGINEER AT THE CONTRACTORS EXPENSE.
14. THERE SHALL BE NO DEVIATIONS FROM THESE DRAWINGS UNLESS APPROVED IN WRITING BY THE ENGINEER AND THE OWNER.
15. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
16. CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN PROJECT AND PAY ALL REQUIRED FEES AND COST.
17. WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.
18. PRIOR TO REMOVING CURB OR GUTTER, THE ADJACENT ASPHALT SHALL BE SAW CUT TO PROVIDE A STRAIGHT EVEN LINE.

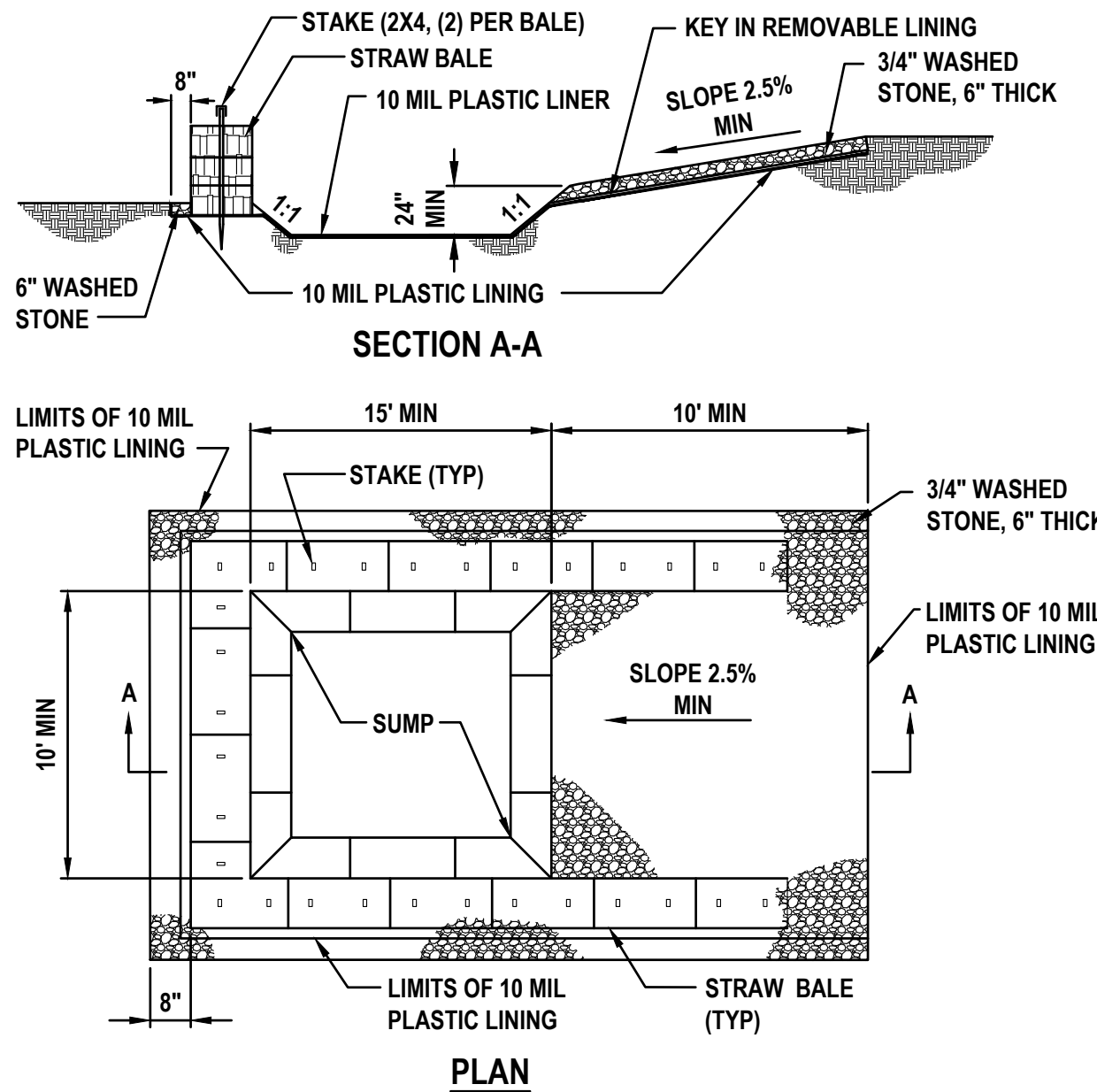


NOTES:

1. INSTALL FILTER PRIOR TO BEGINNING CONSTRUCTION.
2. INSPECT ONCE EACH WEEK AND AFTER ANY RAIN EVENT. REMOVE ANY FINES AND DEBRIS THAT MAY HAVE ACCUMULATED AND DISPOSE OF PROPERLY.

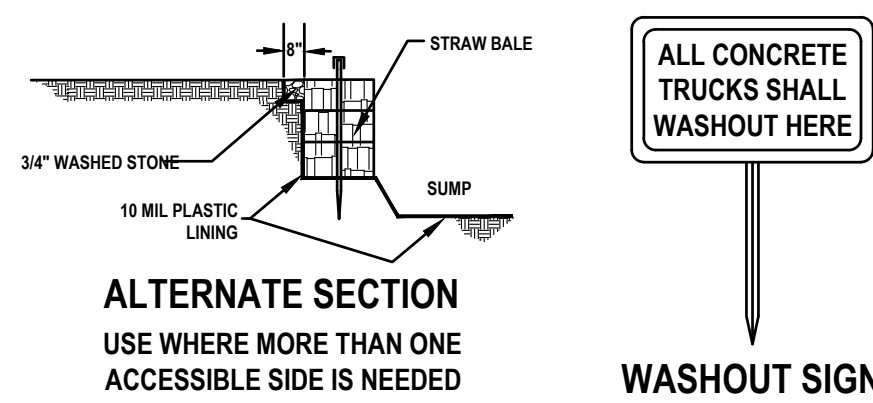
CURB INLET SEDIMENT PREVENTION DETAIL

NOT TO SCALE



CONCRETE WASHOUT AREA

NOT TO SCALE



NOTES:

1. PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
2. WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
3. FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12".
4. FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
5. SAW CUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT & GRINDING TO BE DISPOSED OF IN THE PIT.
6. CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, & SURFACE WATERS.
7. MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.
8. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
9. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
10. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.



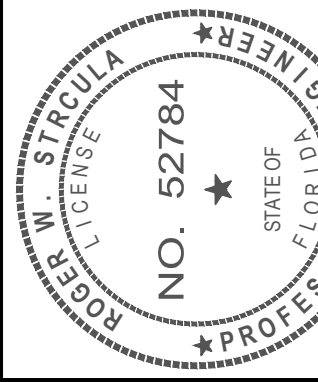
NOTES:

1. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
2. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE WHICH DRAINS INTO AN APPROVED SEDIMENT POND OR SWALE.
3. INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN OR WEEKLY AT A MINIMUM.

CONSTRUCTION ENTRANCE DETAIL (RUMBLE TRACK OR EQUAL)

REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
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EROSION CONTROL DETAILS AND NOTES	SPORTYS CAR WASH 1829 S RIDGEWOOD AVENUE (US-1) EDGEWATER, FLORIDA 32141
PROJECT No:	231001
DATE:	APRIL 16, 2024
DESIGN BY:	RWS
DRAWN BY:	HMT
CHECKED BY:	RWS
SCALE:	1" = 20'
SHEET NUMBER:	C300



PROJECT SITE INFORMATION

PROJECT NAME:SPORTYS CAR WASH

DEVELOPER:GORDON HARDWICK - EDGEWATER AUTO SPA, LLC  
226 NORTH NOVA ROAD STE 151  
ORMOND BEACH, FL

PROJECT LOCATION:1829 S. RIDGEWOOD AVENUE  
EDGEWATER, FL

LATITUDE:28° 58' 16" N  
LONGITUDE:80° 53' 39" W

AHJ:CITY OF EDGEWATER

WMD JURISDICTION:ST. JOHNS RIVER WATER MANAGEMENT DISTRICT  
FDEP NOI:-

PROJECT AREA:1.76± ACRES

DISTURBED AREA:1.75± ACRES

FLUCCS CODE:1,400 - COMMERCIAL AND SERVICES

ULTIMATE RECEIVING WATER BODY:MOSQUITO LAGOON / INDIAN RIVER  
CLASS:II  
OFW:YES  
WBID #:2924B2  
TMDLs:CHLOROPHYLL-A (NUTRIENT) / FECAL COLIFORM (BACTERIA)

SOILS / GEOTECH DATA:  
(PER USDA NRCS WEB SOIL SURVEY)

SOIL NUMBER	SOIL NAME	HSG
4	ASTATULA FINE SAND	A

CONSTRUCTION INFORMATION:

- A) DESCRIPTION OF ACTIVITIES
- CONSTRUCTION ACTIVITIES INCLUDE: REDEVELOPMENT OF THE EXISTING SITE FOR CONSTRUCTION OF A SPORTY'S CAR WASH. IMPROVEMENTS REQUIRE DEMOLITION OF THE EXISTING BUILDINGS AND ASSOCIATED IMPROVEMENTS AS SHOWN ON THE PLANS. ADDITIONAL IMPROVEMENTS INCLUDE ROUTING UTILITIES TO THE NEW BUILDING, CONSTRUCTION OF PAVED PARKING AND DRIVE AISLES, AND INSTALLATION OF LANDSCAPE MATERIALS. A DRY POND IS PROPOSED TO PROVIDE WATER QUALITY AND ATTENUATION FOR STORMWATER RUNOFF FROM THE REDEVELOPED SITE.
- SOIL DISTURBING ACTIVITIES INCLUDE: INSTALLING STABILIZED CONSTRUCTION ENTRANCES, INSTALLATION OF EROSION AND SEDIMENT CONTROLS, CLEARING AND GRUBBING EXISTING VEGETATION (AS NEEDED), ROUTING UTILITIES AND LANDSCAPING AND EXCAVATION FOR CONSTRUCTION OF DRY POND.
- B) SEQUENCE OF MAJOR ACTIVITIES AND CONTROL MEASURES:
- THE CONTRACTOR SHALL SCHEDULE AND ATTEND THE PRECONSTRUCTION MEETING WITH APPROPRIATE JURISDICTIONAL AGENCIES AS SPECIFIED PRIOR TO START OF CONSTRUCTION.
  - THE CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE CITY AND/OR COUNTY AND ENGINEER OF AT LEAST TWO INDIVIDUALS THAT ARE CAPABLE OF CORRECTING ANY DRAINAGE PROBLEMS THAT MAY OCCUR AFTER WORK HOURS.
  - THE CONTRACTOR SHALL PROVIDE THE ENGINEER, COUNTY AND CITY A MOT PLAN AT PRECONSTRUCTION MEETING. TRAFFIC SHALL BE ALLOWED TO CONTINUE DURING WORK. PROVIDE MEASURES TO DETOUR TRAFFIC AROUND CONSTRUCTION ACTIVITIES WITH ADEQUATE BARRICADES, SIGNAGE AND FLAGPERSON TO DIRECT TRAFFIC. EMERGENCY SERVICES SHALL BE NOTIFIED 48 HOUR IN ADVANCE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY DEPARTMENT, FLORIDA SUNSHINE AND EMERGENCY SERVICES FOR RESPECTIVE UTILITY LOCATIONS AND "NOTICE" OF CONSTRUCTION ACTIVITY.
  - ALL EROSION CONTROL DEVICES AND VISIBLE BARRICADES SHALL BE INSTALLED AND APPROVED BY THE ENGINEER PRIOR TO THE START OF CLEARING AND GRUBBING.
  - ALL EROSION CONTROL DEVICES SHALL BE PLACED PRIOR TO THE START OF WORK AND REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
  - A 24' WIDE 6" MINIMUM COMPACTED STONE DRIVE LANE TO THE CONSTRUCTION ENTRANCE THAT SHALL BE PLACED PRIOR TO THE CLEARING AND GRUBBING. THE APPROXIMATE LOCATION IS INDICATED ON THE DRAWING. THE ELEVATION SHALL BE APPROXIMATELY PER THE GRADING PLAN. PROVIDE ACCESS ACROSS DRIVE LANE FOR EMERGENCY VEHICLES. COORDINATE WITH FIRE CHIEF.
  - THE SITE SHALL BE CLEARED AND GRUBBED OF ALL VEGETATION AND DEBRIS WITHIN THE APPROXIMATE LIMITS OF CLEARING AS INDICATED ON THE DRAWING. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS DURING CLEARING AND GRUBBING ACTIVITIES AROUND AREAS DESIGNATED AS TREE PROTECTION.
  - SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION, BLOWING SAND AND THE IMPACT TO NEIGHBORING PROPERTIES.
  - AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY GRASS AND MULCH WITHIN 5 DAYS OF THE LAST DISTURBANCE.
  - ALL REMOVED MATERIAL SHALL BE HAULED OFF-SITE TO AN APPROVED LANDFILL. TREES MAY BE LOGGED OR MULCHED FOR OFF-SITE DISPOSAL AT THE CONTRACTOR'S DISCRETION.
  - ALL OFF-SITE AREAS DISTURBED DURING CONSTRUCTION ACTIVITY SHALL BE IMMEDIATELY RESTORED TO PRIOR CONDITION UPON COMPLETION OF WORK.
  - THE SITE CONTRACTOR SHALL ONLY BE PERMITTED TO REMOVE ALL EROSION PROTECTION DEVICES WITHIN EACH CONTRIBUTING AREA FOLLOWING REMOVAL OF SEDIMENT AND DEBRIS AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS.

SEDIMENT, EROSION AND POLLUTANT CONTROL MEASURES:

- BEST MANAGEMENT PRACTICES BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH PART 5 OF FDEP DOCUMENT NO. 62-621.300(4)(a) SHALL BE USED FOR THIS PROJECT TO CONTROL EROSION AND TURBIDITY CAUSED BY STORMWATER RUNOFF. THE LOCATION AND DETAILS OF EROSION CONTROL METHODS ARE SHOWN ON PLANS. THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING THESE CONTROL METHODS AS SHOWN ON THE PLANS OR AS REQUIRED. CONTRACTOR SHALL ALSO PROVIDE THE REQUIRED EROSION PROTECTION AS REQUIRED BY LOCAL, STATE AND FEDERAL LAWS.
- STORMWATER MANAGEMENT STORMWATER COLLECTION SHALL BE PROVIDED BY CATCH BASINS. THE SITE WILL DISCHARGE TO THE EXISTING MASTER STORMWATER POND FOR TREATMENT.
- STABILIZATION PRACTICES  
WIND EROSION STABILIZATION: THE CONTRACTOR SHALL DENUDE ONLY ARES WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITHIN A 2 WEEK TIME-FRAME. FINAL GRADES SHALL BE PERFORMED AND TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE APPLIED. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS. FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS, OR AS NEEDED TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL MONITORED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF-SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST.  
  
TEMPORARY STABILIZATION: TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR 21 DAYS WILL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 5 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE MIXTURE OF 20 PARTS OF BERMUDA SEED AND 80 PARTS OF PENSACOLA BAHIA. THE SEPARATE TYPES OF SEED USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY, CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA OR BAHIA GRASS HAY. ONLY UNDETERIORATED MULCH WHICH CAN BE READILY CUT INTO THE SOIL SHALL BE USED. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASE.  
  
PERMANENT STABILIZATION: DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD NO LATER THAN 5 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.
- STRUCTURAL PRACTICES  
STAKED SILT FENCES: THE STAKED SILT FENCES WILL BE CONSTRUCTED ALONG THE PERIMETER AS SPECIFIED IN THE DRAWINGS. STAKED FENCE SHALL BE CLEARED OF SEDIMENT WHEN IF REACHES ONE-THIRD HEIGHT OF THE FENCE.  
  
EARTH DIKE: IF REQUIRED, AN EARTH DIKE SHALL BE CONSTRUCTED ALONG THE SITE PERIMETER. A PORTION OF THE DIKE SHALL DIVERT RUN-ON AROUND THE CONSTRUCTION SITE. THE REMAINING PORTION OF THE DIKE SHALL COLLECT RUNOFF FROM THE DISTURBED AREA AND DIRECT THE RUNOFF TO THE SEDIMENT BASIN.  
  
SEDIMENT BASIN: PROPOSED STORMWATER PONDS CAN BE USED. BEST MANAGEMENT PRACTICES SUCH AS REMOVAL OF SEDIMENT FROM INLET PROTECTION DEVICES, PROPER WASTE DISPOSAL AND SWEEPING TO REDUCE AMOUNT OF SEDIMENT DISCHARGED INTO POND SHALL BE CONTINUOUSLY IMPLEMENTED.
- WASTE DISPOSAL  
WASTE MATERIALS: ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.  
  
HAZARDOUS WASTE: HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.  
  
SANITARY WASTE: SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH LOCAL UTILITY FOR COLLECTION OF SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.
- DUST CONTROL  
TO PREVENT OFF-SITE VEHICULAR TRACKING OF SEDIMENTS AND DUST GENERATION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE ESTABLISHED BY THE SITE CONTRACTOR. SEE DRAWINGS FOR DETAILS AND LOCATION(S).
- NON-STORMWATER DISCHARGES  
IT IS EXPECTED THAT THE FOLLOWING NON-STORMWATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:  
  
WATER FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, WATER LINE FLUSHING, WATER USED TO SPRAY OFF LOOSE SOILS FROM VEHICLES, DUST CONTROL, PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). ALL NON-STORMWATER DISCHARGES WILL BE DIRECTED TO THE EXISTING STORMWATER POND.  
  
DISCHARGE OF UNCONTAMINATED GROUNDWATER FROM CONSTRUCTION-RELATED DEWATERING OPERATIONS IS PERMITTED IN ACCORDANCE WITH PART 3.4 OF THE FDEP DOCUMENT NO. 62-621.300(4)(a)

ITEMS REQUIRING POLLUTION PREVENTION  
THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED, BUT NOT LIMITED, TO BE PRESENT ON-SITE DURING CONSTRUCTION:

CONCRETE	WOOD	ROOFING SHINGLES	ASPHALT
GLASS	SAND / DIRT	METAL STUDS	LIMEROCK
STONE	CLEANING SOLVENTS	MASONRY BLOCK	PRECAST STRUCTURES
PAINT	PETROLEUM / FUELS	FERTILIZERS	PIPES

STORMWATER POLLUTION PREVENTION PLAN CERTIFICATION

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

OWNER:

SIGNATURE:\_\_\_\_\_

NAME / TITLE:\_\_\_\_\_

COMPANY:\_\_\_\_\_

ADDRESS:\_\_\_\_\_

MAINTENANCE AND INSPECTION PROCEDURES:

- INSPECTOR QUALIFICATIONS  
INSPECTIONS MUST BE CONDUCTED BY A "QUALIFIED" INSPECTOR. "QUALIFIED" IS DEFINED AS A PERSON THAT A). HAS SUCCESSFULLY COMPLETED AND MET ALL REQUIREMENTS NECESSARY TO BE FULLY CERTIFIED THROUGH THE FDEP STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM; B). HAS SUCCESSFULLY COMPLETED AN EQUIVALENT FORMAL TRAINING PROGRAM; OR C). THAT IS QUALIFIED BY OTHER TRAINING OR PRACTICAL EXPERIENCE IN THE FIELD OF STORMWATER POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL.
- DISTURBED AREAS  
ALL DISTURBED AREAS AND AREAS USED FOR MATERIAL STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED REGULARLY TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
- MONITORING INSPECTIONS  
ARE REQUIRED TO BE PERFORMED BY A QUALIFIED INSPECTOR AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL EVENT OF ONE-HALF (1/2) OF AN INCH OF RAINFALL OR GREATER AND SHALL CONTINUE UNTIL THE SITE COMPLIES WITH FINAL STABILIZATION (NOTICE OF TERMINATION).
- REPORTING  
EACH INSPECTION MUST BE FOLLOWED UP BY A REPORT DOCUMENTING THE INSPECTOR'S FINDINGS AND REQUEST THE REQUIRED MAINTENANCE AND/OR REPAIR FOR THE EROSION AND SEDIMENTATION CONTROL MEASURES. THESE RECORDS ARE USED TO PROVE THAT THE REQUIRED INSPECTION AND MAINTENANCE WERE PERFORMED AND SHALL BE PLACED IN THE SWPPP LEDGER.
- RECORD KEEPING  
IN ADDITION TO INSPECTION AND MAINTENANCE REPORTS, RECORDS SHOULD BE KEPT OF CONSTRUCTION ACTIVITIES THAT OCCUR ON THE SITE. THE CONTRACTOR SHALL RETAIN COPIES OF THE SWPPP, ALL REPORTS AND DATA FOR A MINIMUM OF FIVE (5) YEARS AFTER THE PROJECT IS COMPLETE IN PAPER AND CD FORMAT.

SPILL PREVENTION PRACTICES AND CONTROL MEASURES:

- GOOD HOUSEKEEPING  
- SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.  
- STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.  
- ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.  
- ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.  
- PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.  
- ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- HAZARDOUS PRODUCTS  
- MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.  
- PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.
- PRODUCT SPECIFIC PRACTICES  
- PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.  
- THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO SOIL IN ORDER TO LIMIT EXPOSURE TO STORMWATER. FERTILIZERS SHALL BE STORED IN COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO SEALABLE PLASTIC BIN TO AVOID SPILLS.  
- PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN APPROVED MANNER.  
- CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.
- SPILL CONTROL AND CLEANUP RESPONSIBILITIES  
- SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.  
- THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.  
- ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.  
- WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.  
- TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.  
- AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.  
- THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

NOTICE OF INTENT (NOI) / NOTICE OF TERMINATION (NOT)

- NOI: THE NOTICE OF INTENT (NOI), DEP FORM 62-621.300(4)(b), IS TO BE COMPLETED AND SUBMITTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) BEFORE USE OF THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PROVIDED IN SUBSECTION 62-621.300(4), F.A.C.
- NOT: WHERE A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES AUTHORIZED BY THIS PERMIT ARE ELIMINATED, THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION, DEP FORM 62-621.300(6), SIGNED IN ACCORDANCE WITH PART 7.C OF FDEP DOCUMENT NO. 62-621.300(4)(a), WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT.

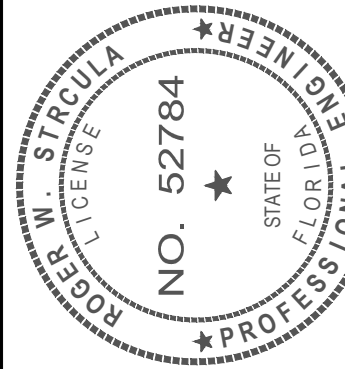
CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORMWATER PERMIT ISSUED PURSUIT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE	COMPANY INFO	RESPONSIBLE FOR:
	COMPANY: _____ NAME: _____ TITLE: _____ DATE: _____	
	COMPANY: _____ NAME: _____ TITLE: _____ DATE: _____	
	COMPANY: _____ NAME: _____ TITLE: _____ DATE: _____	

REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROGER W. STRCULA, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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LB # 0003612 LC # 0000357

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STORMWATER POLLUTION PREVENTION NOTES

SPORTYS CAR WASH  
1829 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32141

PROJECT No:231001  
DATE:APRIL 16, 2024  
DESIGN BY:RWS  
DRAWN BY:HMT  
CHECKED BY:RWS  
SCALE:1" = 20'

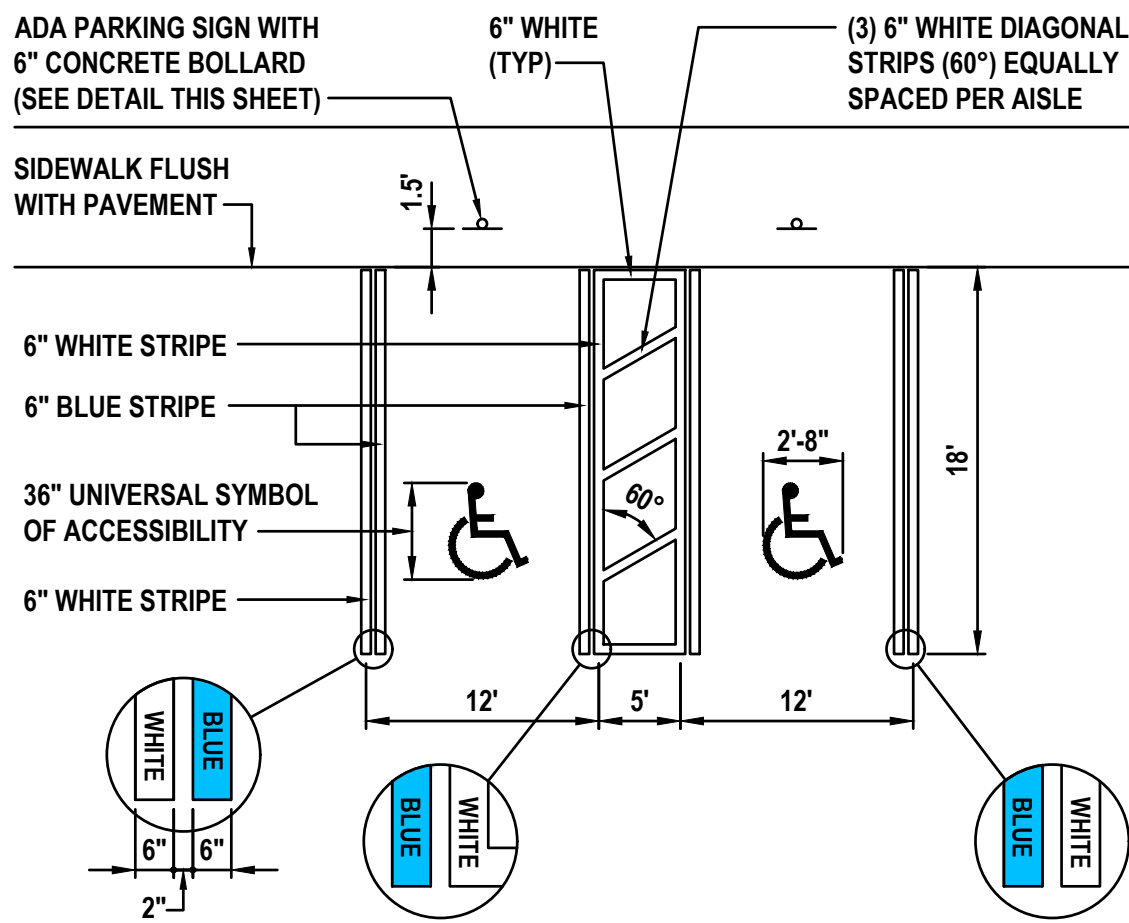
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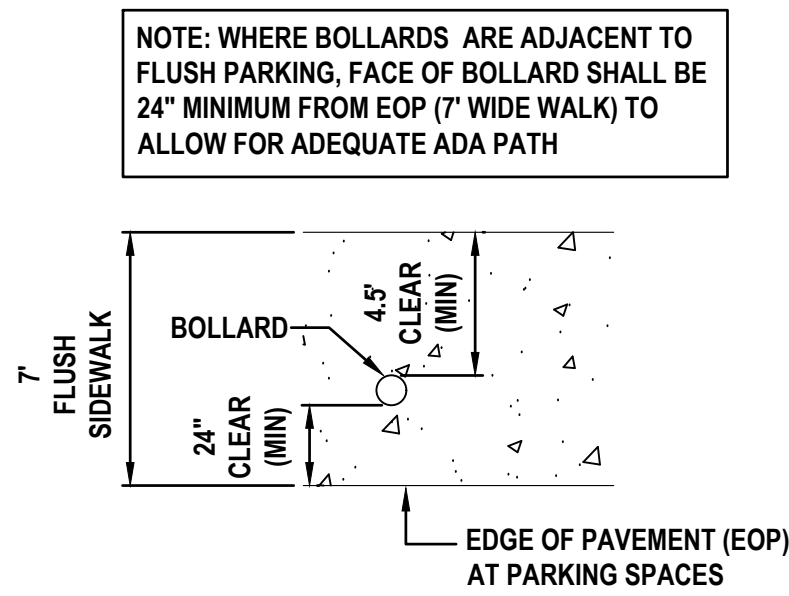




### ADA PARKING STRIPING

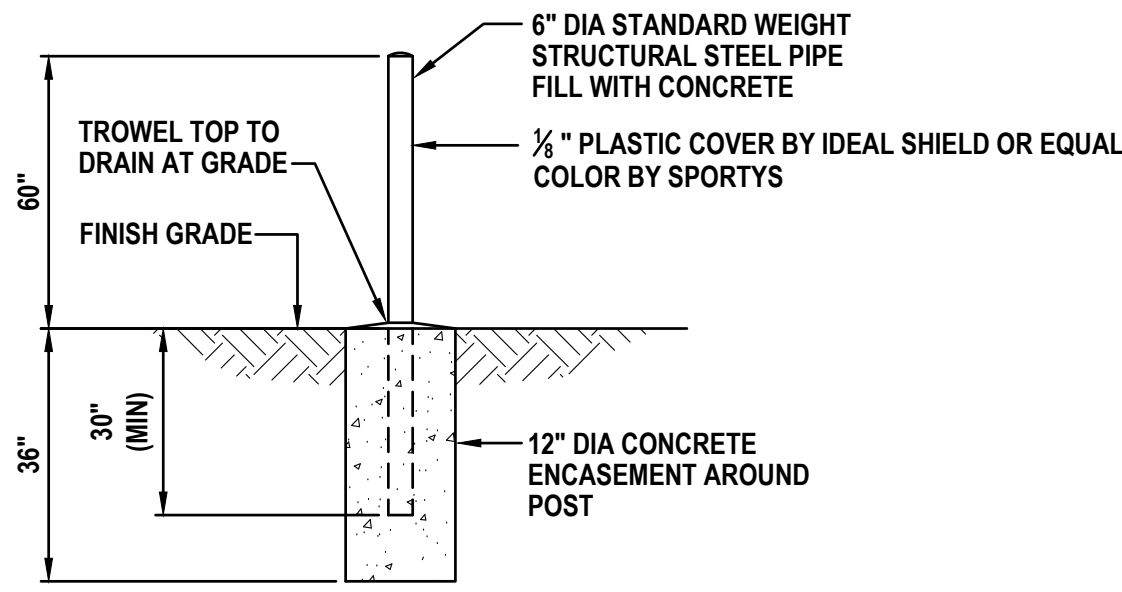
NOT TO SCALE

(ADA SPACES SHALL COMPLY WITH FBC, ACCESSIBILITY 2017)



### BOLLARD PLACEMENT DETAIL

NOT TO SCALE



### PIPE BOLLARD

NOT TO SCALE



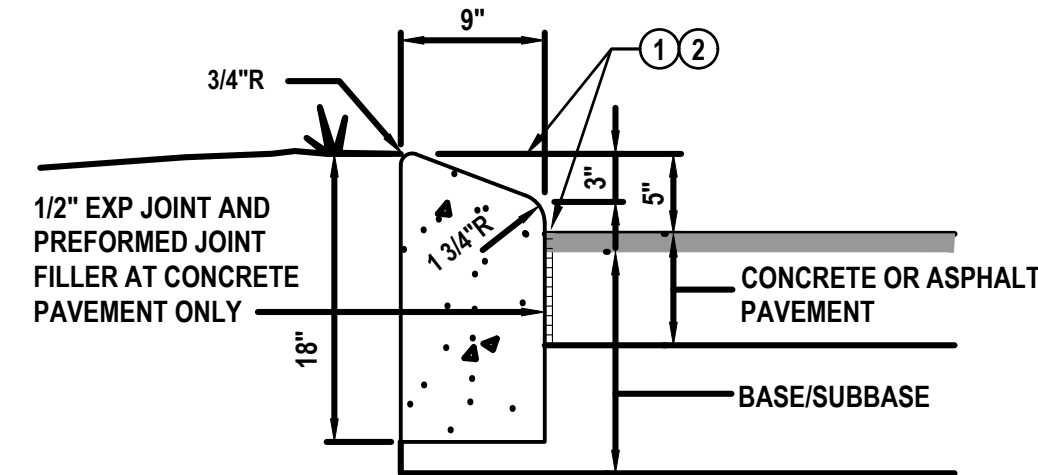
PHOTO PROVIDED SHOWS EXAMPLE OF VACUUM STALLS EQUIPMENT AND PROVIDED TRASH RECEPTACLES

### VACUUM STALLS PHOTO

NOT TO SCALE

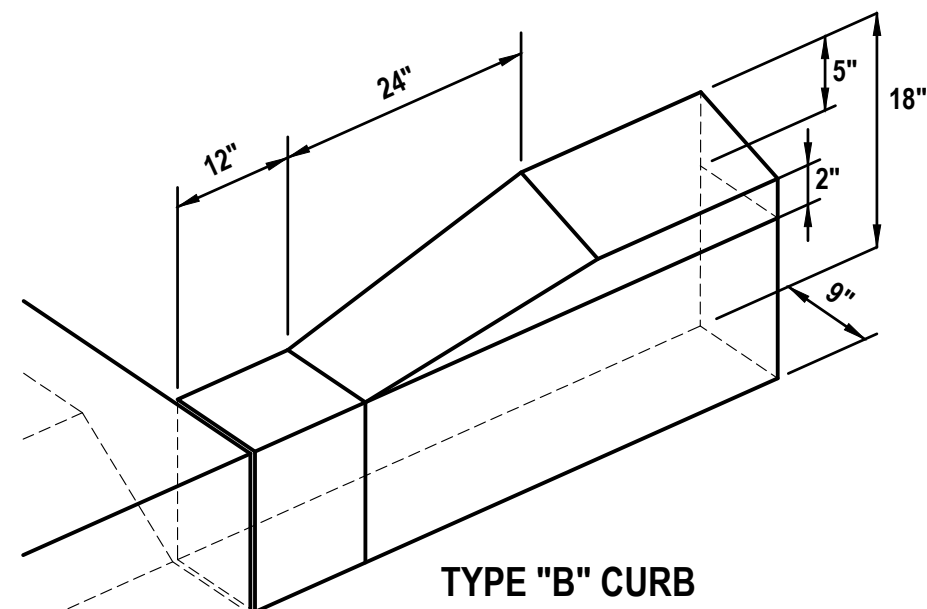
### BUBBLE NOTES FOR CURB DETAILS

- 1 PROVIDE CONTRACTION JOINTS @ 10' O.C. AND EXPANSION JOINTS @ 100' O.C. ALL JOINTS SEALED PER SPECIFICATIONS
- 2 5" HEIGHT SHALL BE UNIFORM, IF HEIGHT VARIES  $\pm 1/2"$  THEN CURB WILL BE REPLACED AT THE DISCRETION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.



### TYPE "B" CURB DETAIL

NOT TO SCALE



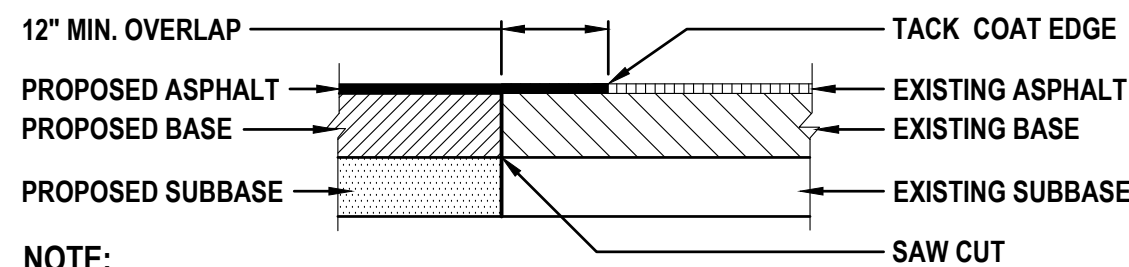
### TYPE "B" CURB

#### NOTES:

1. EXTRUDE CURB AND BROOM FINISH
2. PROVIDE 1/2" EXPANSION JOINTS AT ALL COLD JOINTS.
3. SAW CUT CONSTRUCTION JOINTS AT 10'-0" O.C.
4. ALL EXPOSED SURFACES SHALL BE STRIPED GREEN, TROWLED AND CURB EDGING RUBBED SMOOTH.
5. "GLUED-ON" EXTRUDED CURB NOT PERMITTED.

### CURB TRANSITION DETAIL

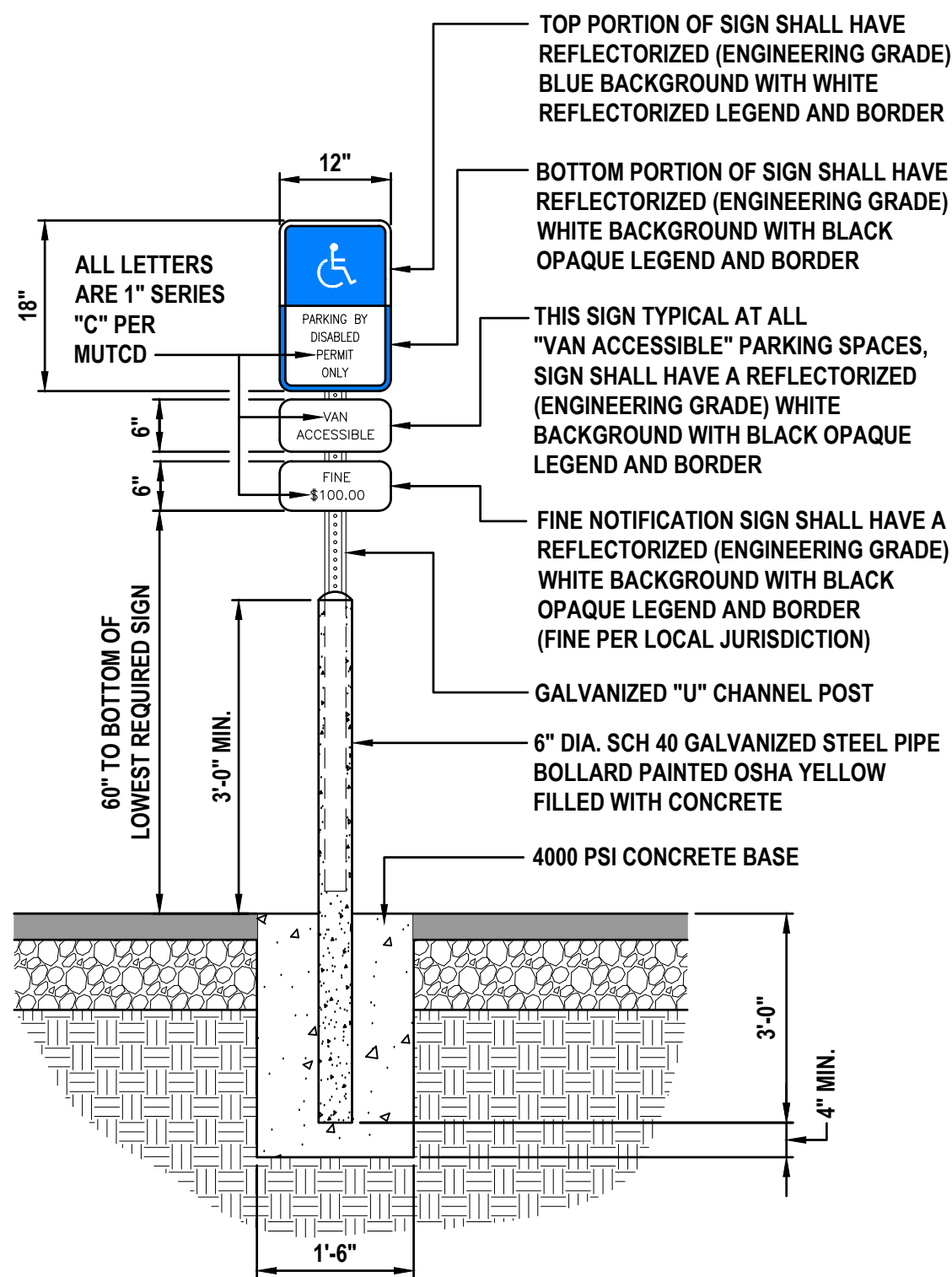
NOT TO SCALE



NOTE:  
THE WIDTH OF SAW CUT AT EXISTING ASPHALT PAVEMENT AT TACK COAT EDGE IS 1" MINIMUM.

### PAVEMENT BUTT JOINT DETAIL

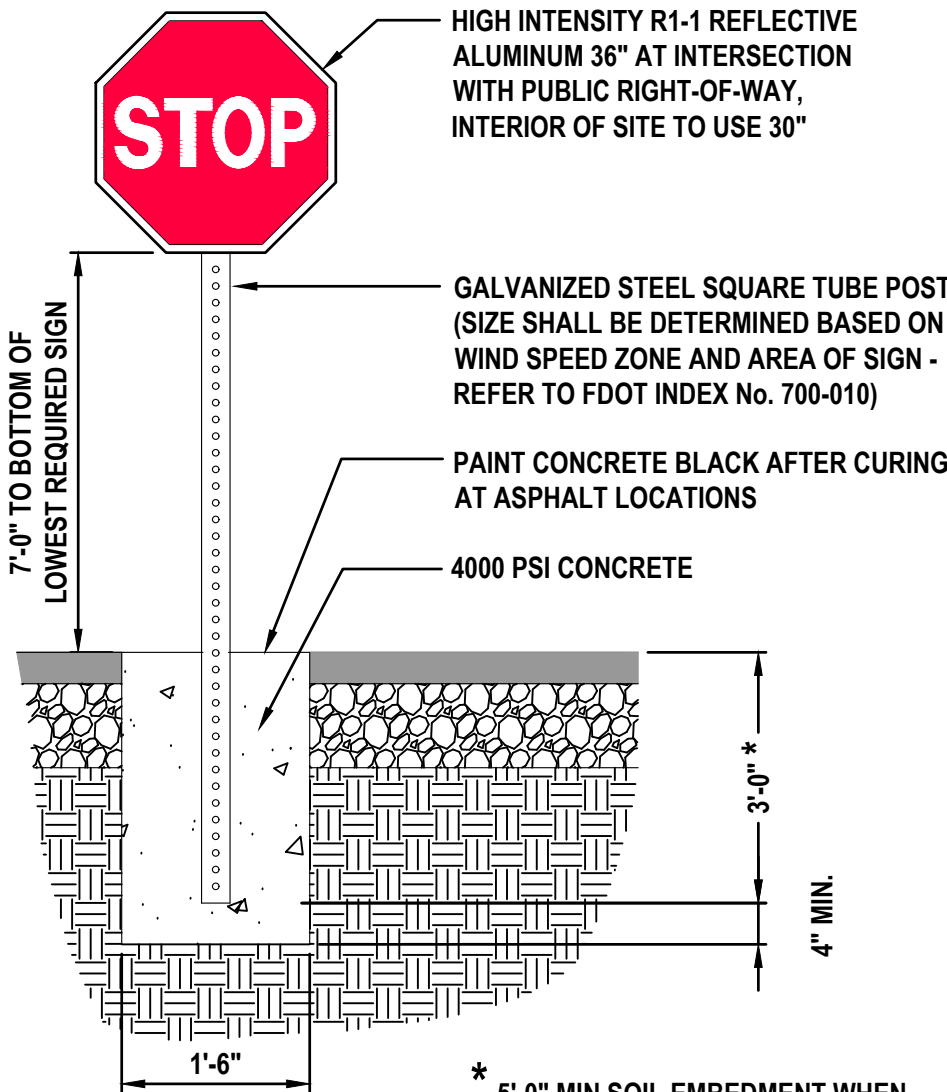
NOT TO SCALE



### ADA PARKING SIGN

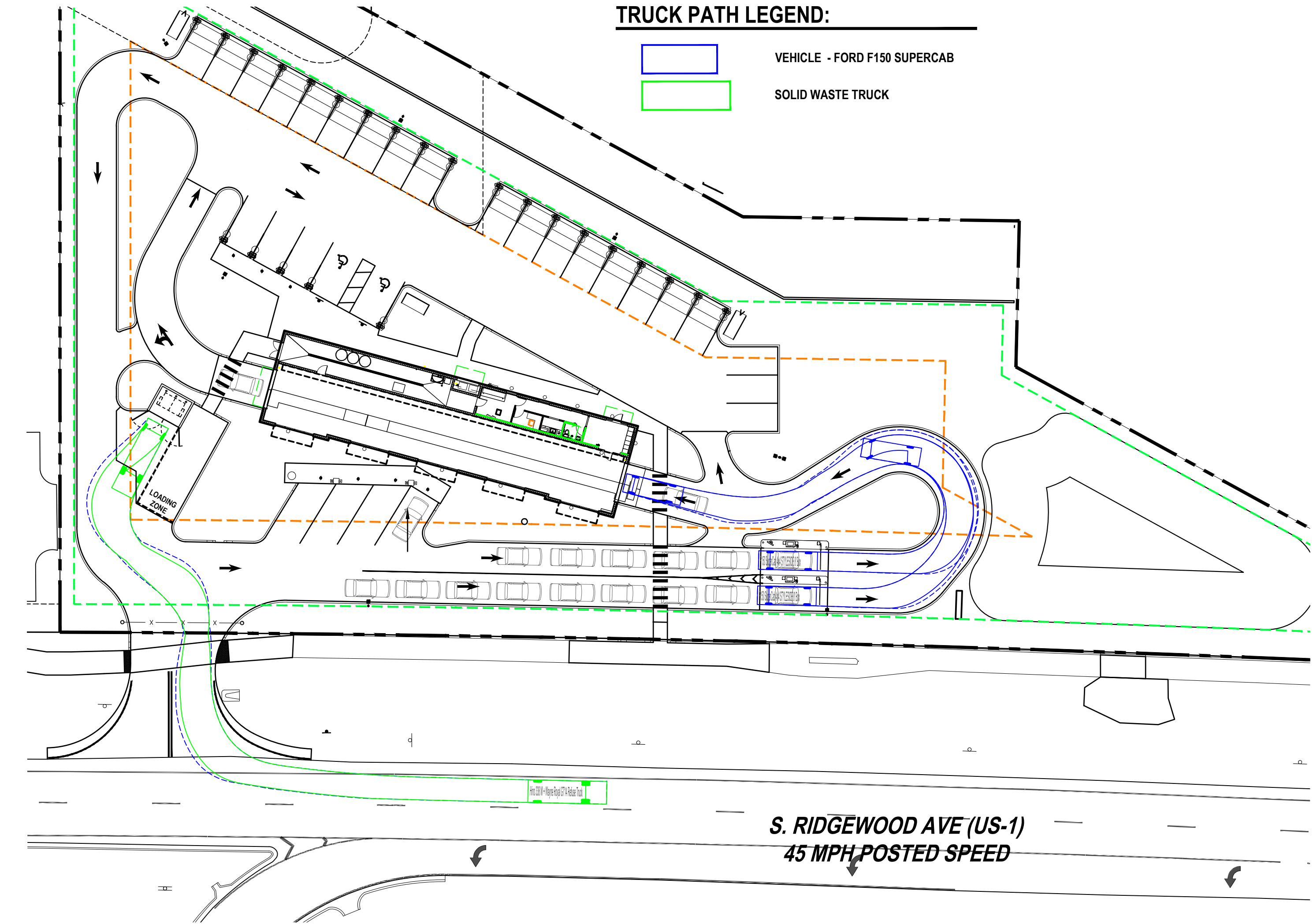
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(SIGNAGE SHALL COMPLY WITH FDOT REGULATIONS & FBC, ACCESSIBILITY 2017)



### STOP SIGN DETAIL

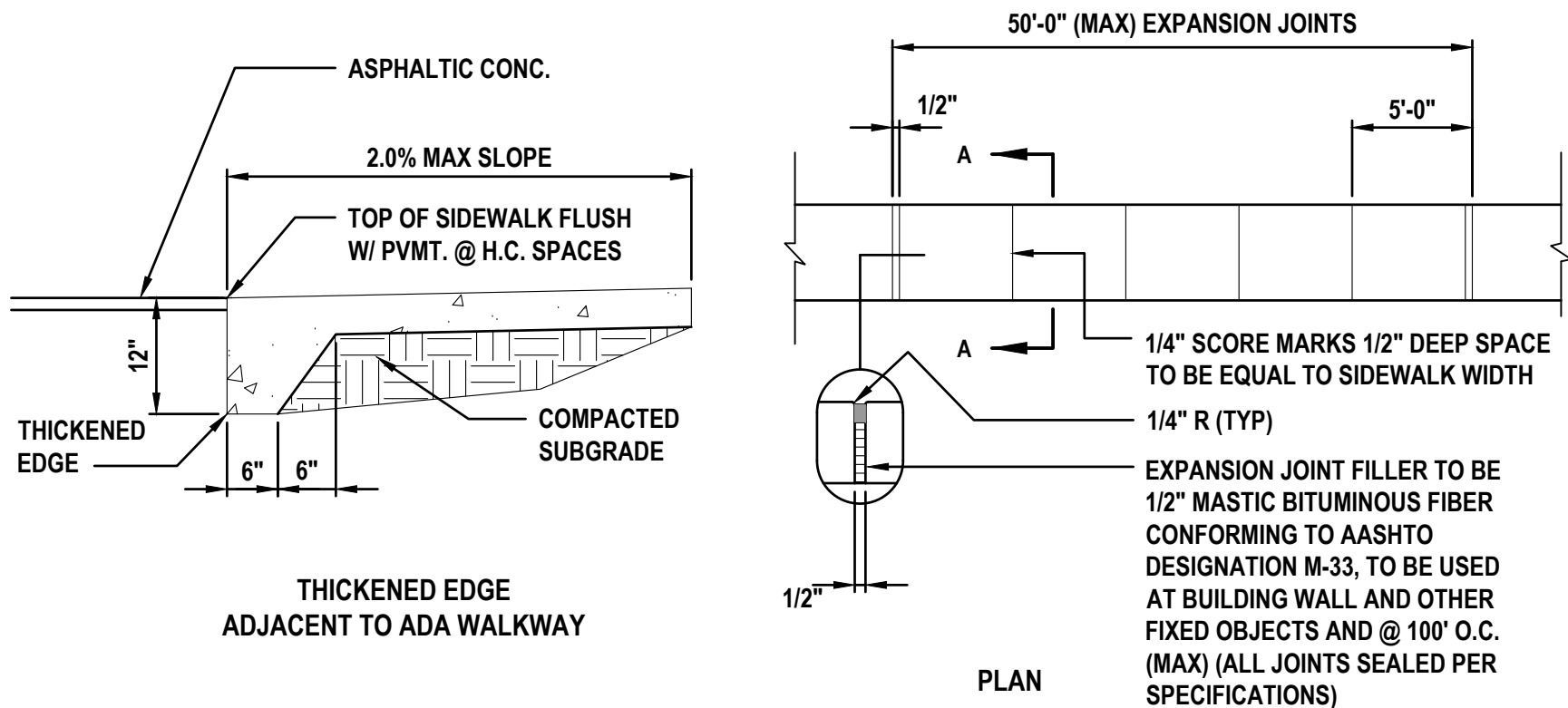
NOT TO SCALE



### TRUCK PATH PLAN

SCALE: 1" = 30'

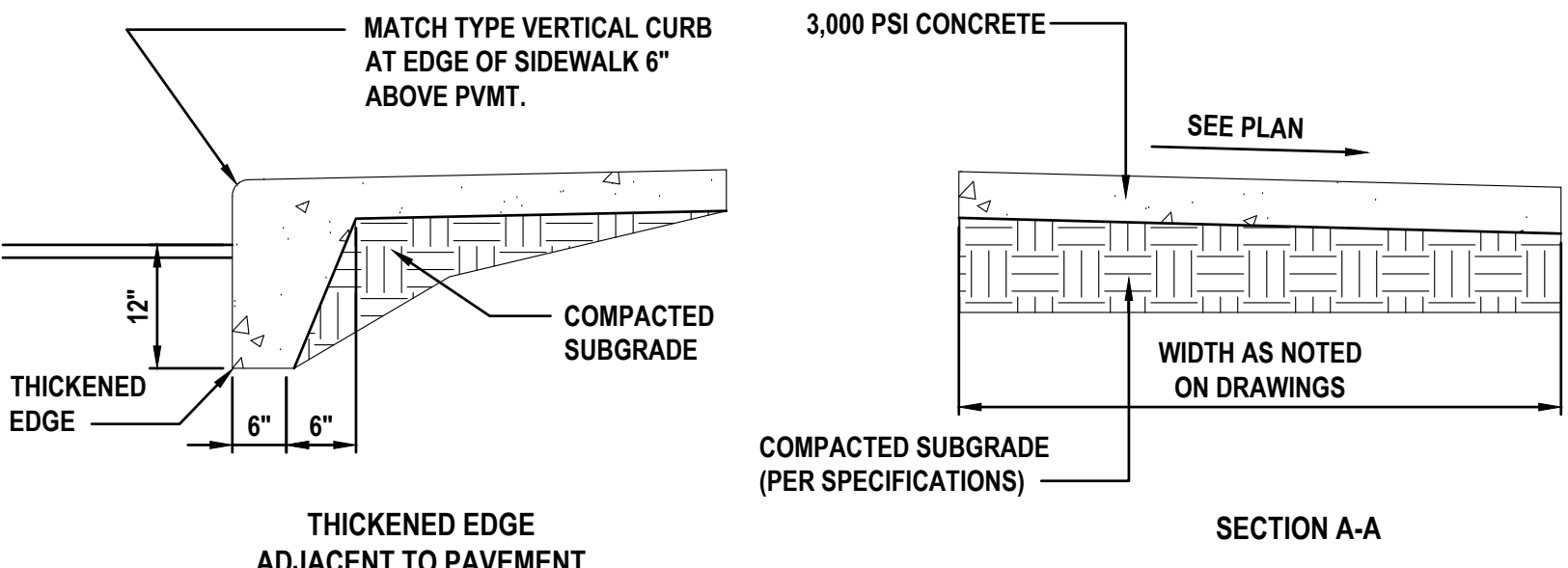
VEHICLE - FORD F150 SUPERCAB, HINO 338 M + WAYNE ROYAL GT14 REFUSE TRUCK



### SIDEWALK DETAILS

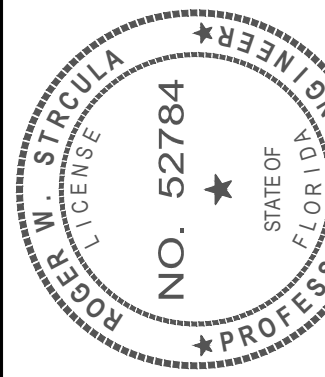
NOT TO SCALE

CONCRETE WALKS SHALL BE 4 INCHES THICK HAVING A 3,000 PSI STRENGTH, POURED OVER PROPERLY PREPARED SUBGRADE. ALL CONCRETE SIDEWALKS SHALL BE 8 INCHES THICK ACROSS DRIVEWAYS. 1/2 INCH EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 50'. CRACK CONTROL JOINTS SHALL BE 5' ON CENTERS.



### REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25



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### TRUCK PATH AND MISCELLANEOUS DETAILS

### SPORTYS CAR WASH

1829 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32141

PROJECT No: 231001  
DATE: APRIL 16, 2024  
DESIGN BY: RWS  
DRAWN BY: HMT  
CHECKED BY: RWS  
SCALE: 1" = 20'

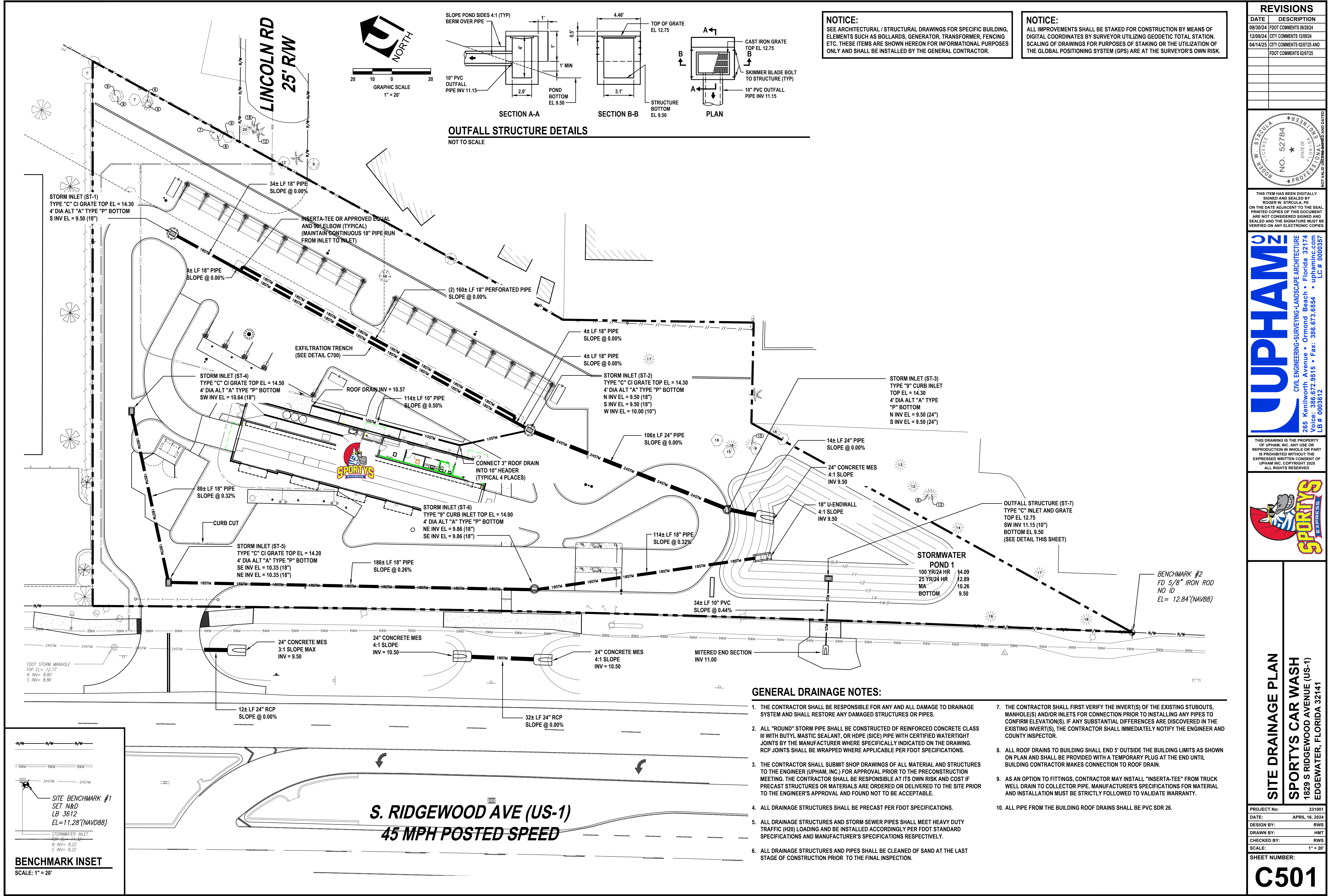
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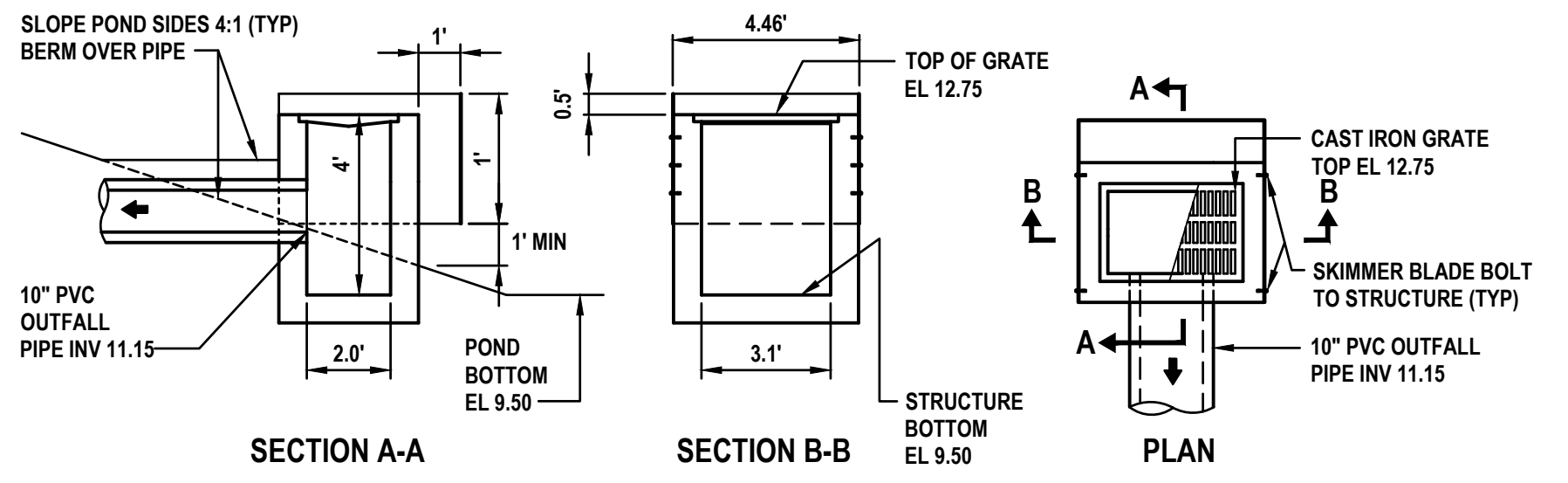
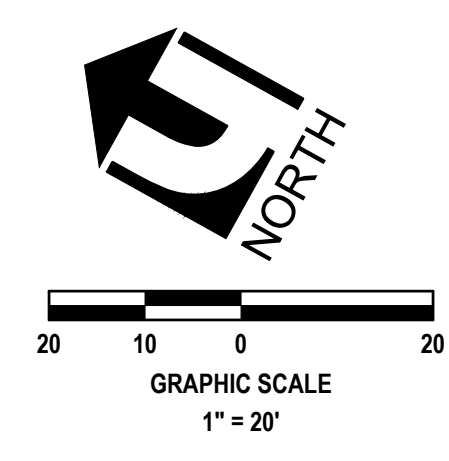




**BENCHMARK INSET**  
SCALE: 1" = 20'

**SITE BENCHMARK #1**  
SET N&D  
LB 3612  
EL=11.28'(NAVD88)

STORMWATER INLET  
TOP EL= 11.32  
N INV= 8.22  
S INV= 8.22



**NOTICE:**  
SEE ARCHITECTURAL / STRUCTURAL DRAWINGS FOR SPECIFIC BUILDING, ELEMENTS SUCH AS BOLLARDS, GENERATOR, TRANSFORMER, FENCING ETC. THESE ITEMS ARE SHOWN HEREON FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE INSTALLED BY THE GENERAL CONTRACTOR.

**NOTICE:**  
ALL IMPROVEMENTS SHALL BE STAKED FOR CONSTRUCTION BY MEANS OF DIGITAL COORDINATES BY SURVEYOR UTILIZING GEODETIC TOTAL STATION. SCALING OF DRAWINGS FOR PURPOSES OF STAKING OR THE UTILIZATION OF THE GLOBAL POSITIONING SYSTEM (GPS) ARE AT THE SURVEYOR'S OWN RISK.

REVISIONS	
DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25

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CIVIL ENGINEERING-SURVEYING-LANDSCAPE ARCHITECTURE  
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Voice: 386.672.9515 • Fax: 386.673.6554 • uphaminc.com  
LB # 0003612

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**SPORTYS EXPRESS**

**SITE DRAINAGE PLAN**

**SPORTYS CAR WASH**  
1829 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32141

PROJECT No:	231001
DATE:	APRIL 16, 2024
DESIGN BY:	RWS
DRAWN BY:	HMT
CHECKED BY:	RWS
SCALE:	1" = 20'
SHEET NUMBER:	C501

- GENERAL DRAINAGE NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO DRAINAGE SYSTEM AND SHALL RESTORE ANY DAMAGED STRUCTURES OR PIPES.
  2. ALL "ROUND" STORM PIPE SHALL BE CONSTRUCTED OF REINFORCED CONCRETE CLASS III WITH BUTYL MASTIC SEALANT, OR HDPE (SIC) PIPE WITH CERTIFIED WATERTIGHT JOINTS BY THE MANUFACTURER WHERE SPECIFICALLY INDICATED ON THE DRAWING. RCP JOINTS SHALL BE WRAPPED WHERE APPLICABLE PER FDOT SPECIFICATIONS.
  3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MATERIAL AND STRUCTURES TO THE ENGINEER (UPHAM, INC.) FOR APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE AT ITS OWN RISK AND COST IF PRECAST STRUCTURES OR MATERIALS ARE ORDERED OR DELIVERED TO THE SITE PRIOR TO THE ENGINEER'S APPROVAL AND FOUND NOT TO BE ACCEPTABLE.
  4. ALL DRAINAGE STRUCTURES SHALL BE PRECAST PER FDOT SPECIFICATIONS.
  5. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY PER FDOT STANDARD SPECIFICATIONS AND MANUFACTURER'S SPECIFICATIONS RESPECTIVELY.
  6. ALL DRAINAGE STRUCTURES AND PIPES SHALL BE CLEANED OF SAND AT THE LAST STAGE OF CONSTRUCTION PRIOR TO THE FINAL INSPECTION.
  7. THE CONTRACTOR SHALL FIRST VERIFY THE INVERT(S) OF THE EXISTING STUBOUTS, MANHOLE(S) AND/OR INLETS FOR CONNECTION PRIOR TO INSTALLING ANY PIPES TO CONFIRM ELEVATION(S). IF ANY SUBSTANTIAL DIFFERENCES ARE DISCOVERED IN THE EXISTING INVERT(S), THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND COUNTY INSPECTOR.
  8. ALL ROOF DRAINS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT THE END UNTIL BUILDING CONTRACTOR MAKES CONNECTION TO ROOF DRAIN.
  9. AS AN OPTION TO FITTINGS, CONTRACTOR MAY INSTALL "INSERTA-TEE" FROM TRUCK WELL DRAIN TO COLLECTOR PIPE. MANUFACTURER'S SPECIFICATIONS FOR MATERIAL AND INSTALLATION MUST BE STRICTLY FOLLOWED TO VALIDATE WARRANTY.
  10. ALL PIPE FROM THE BUILDING ROOF DRAINS SHALL BE PVC SDR 26.



6" VCP SANITARY SEWER

CONCRETE

COORDINATE WITH FPL FOR ITS CONNECTION (REFERENCE CONTACT - COURTNEY THOMAS AT 386.322.3423 - EMAIL Courtney.Thomas2@fpl.com)

WOOD POWER POLE ID: 466B778100B

NORTH

20 0 20

GRAPHIC SCALE

**NOTICE:**  
ALL IMPROVEMENTS SHALL BE STAKED FOR CONSTRUCTION BY MEANS OF  
DIGITAL COORDINATES BY SURVEYOR UTILIZING GEODETIC TOTAL STATION.  
SCALING OF DRAWINGS FOR PURPOSES OF STAKING OR THE UTILIZATION OF  
THE GLOBAL POSITIONING SYSTEM (GPS) ARE AT THE SURVEYOR'S OWN RISK.

**CONDUIT SPECIFICATIONS**  
4 #300KCMIL IN EACH OF (3) 4" CONDUITS  
3 #300KCMIL PER PHASE.  
PLUS (1) 4" CONDUIT SPARE.  
ALL SECONDARY CONDUITS SHALL BE  
CONCRETE ENCASED. (WHERE  
REQUIRED BY LOCAL AUTHORITIES.)  
(PER ARCHITECTURAL DRAWINGS,  
SHOWN FOR INFORMATION PURPOSES)

CP-1 4" SANITARY SEWER ABOVE 10" STORM 2.1'± CLEAR  
CP-2 4" SANITARY SEWER ABOVE 10" STORM 1.8'± CLEAR

NOT TO SCALE

6'

18" STORM PIPE




















TRENCH BOTTOM EL = 9.00

8" SANITARY PIPE  
@ 0.42'

0.82'

1. THE GENERAL CONTRACTOR WILL SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY OF EDGEWATER UTILITY DEPARTMENT A MINIMUM OF 2 WEEKS PRIOR TO THE GENERAL CONTRACTOR'S START OF CONSTRUCTION AND PRIOR TO APPROVAL OF THE SHOP DRAWINGS AND DELIVERY OF ANY UTILITY MATERIAL. THE GENERAL CONTRACTOR AND UTILITY SUBCONTRACTOR IS REQUIRED TO ATTEND THIS MEETING.
2. ALL UTILITIES MATERIAL, TESTING AND CONSTRUCTION SHALL BE IN STRICT COMPLIANCE WITH THE CITY OF EDGEWATER "STANDARD CONSTRUCTION SPECIFICATIONS FOR WATER AND WASTEWATER" LATEST REVISION; INCLUDING THE APPLICABLE DEP REQUIREMENTS.
3. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THE UTILITIES ARE INSTALLED IN THE LOCATIONS IDENTIFIED AND WITHIN ANY APPLICABLE EASEMENTS.
4. ALL IMPROVEMENTS SHALL BE STAKED FOR CONSTRUCTION FROM DIGITAL COORDINATES BY A SURVEYOR UTILIZING AS A MINIMUM A GEODETIC TOTAL STATION. SCALING OF DRAWINGS FOR PURPOSES OF STAKING ARE SOLELY AT THE SURVEYOR'S RISK.
5. SEE ARCHITECTURAL DRAWINGS BY SGA DESIGN GROUP FOR CONTINUATION OF ELECTRICAL, WATER SERVICES AND SANITARY LATERAL INTO BUILDING.
6. CONDUITS FOR ELECTRIC AND TELEPHONE SHALL HAVE A PULL CABLE CAPABLE OF 200 LB MIN WEIGHT FOR FRANCHISE UTILITIES TO UTILIZE.
7. THE UTILITY SUBCONTRACTOR SHALL COORDINATE ALL UTILITY INSTALLATIONS WITH THE CITY OF EDGEWATER UTILITY DEPARTMENT.
8. THE UTILITY SUBCONTRACTOR SHALL COORDINATE WITH THE DEVELOPER'S SITE CONTRACTOR FOR CONNECTION INTO THE UTILITY SERVICES IF NOT INSTALLED AT THE TIME OF ALD'S CONSTRUCTION.
9. POTABLE WATER AND WASTEWATER UTILITIES SERVICE WILL BE PROVIDED BY THE CITY OF EDGEWATER. THE INTERIOR SITE POTABLE WATER, SANITARY MAINS AND STORMWATER FACILITIES WILL BE OWNED AND MAINTAINED BY SPORYS.

# LEGEND:

	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	EXISTING WATER VALVE
	PROPOSED WATER VALVE
	EXISTING WATER MAIN
	PROPOSED COMPRESSED AIR PIPING
	PROPOSED 1" POWER LINE CONDUIT TO POS ISLAND
	PROPOSED 1" CONTROL LINE CONDUIT TO POS ISLAND
	PROPOSED 1" GATE LINE CONDUIT TO POS ISLAND
	PROPOSED 1" CAMERA LINE CONDUIT TO POS ISLAND
	PROPOSED 2" WATER SERVICE (BUILDING)
	PROPOSED WATER SERVICE (EQUIPMENT)
	PROPOSED SANITARY (SIZE VARIES)
	PROPOSED REUSE PIPE (SIZE VARIES)
	EXISTING STORM PIPE
	PROPOSED STORM PIPE
	PROPOSED SANITARY SEWER CLEANOUT
	PROPOSED SANITARY MANHOLE
	PROPOSED SITE LIGHTS (SEE PHOTOMETRIC DRAWINGS)

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LB # 0003612 LC # 0000357

PROJECT No:	231001
DATE:	APRIL 16, 2024
DESIGN BY:	RWS
DRAWN BY:	HMT
CHECKED BY:	RWS
SCALE:	1" = 20'
SHEET NUMBER:	

# C600

SEE CONFLICT DETAIL  
(THIS SHEET)

**SANITARY OVER STORM**  
**1' CLEAR MIN**

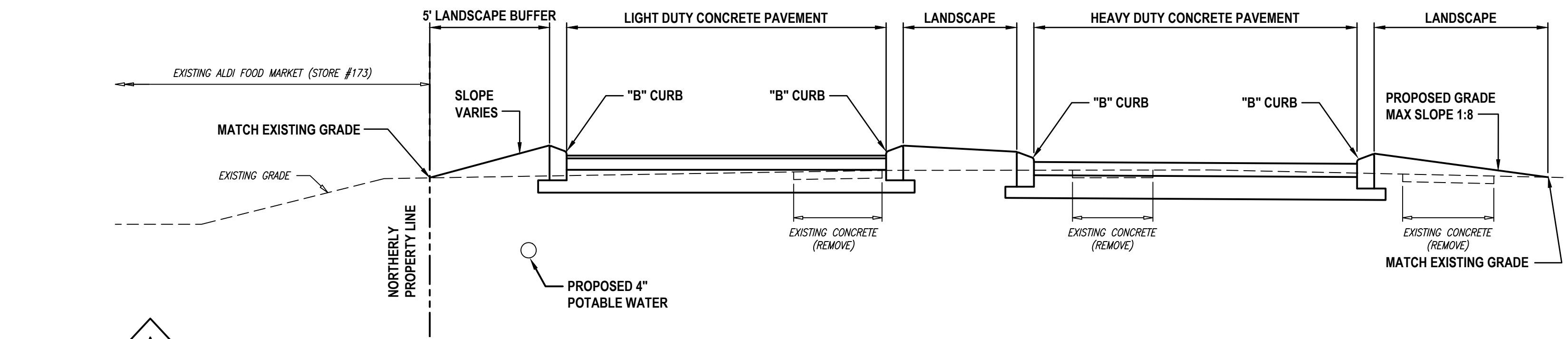
TOP EL 11.3±

— WATER AND COMPRESSED AIR STATIONS  
(TYPICAL 2 PLACES) LOCATION AND INSTALLATION  
PER MANUFACTURER'S SPECIFICATIONS)

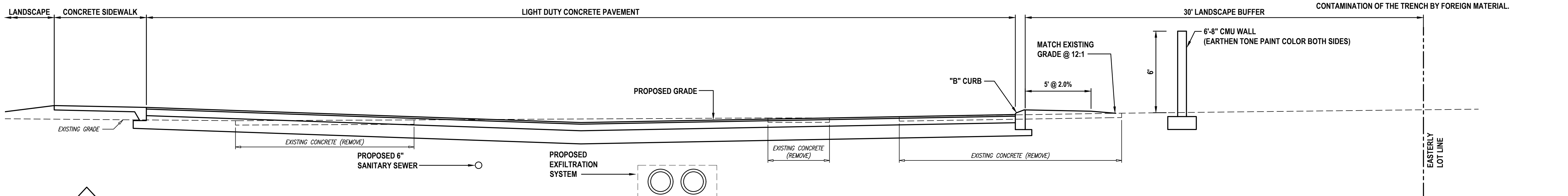
THE LOCATION OF THE LIGHT POLES SHALL ONLY BE INSTALLED PER THE DIGITAL COORDINATES TO AVOID CONFLICTS WITH UTILITIES (TYPICAL)



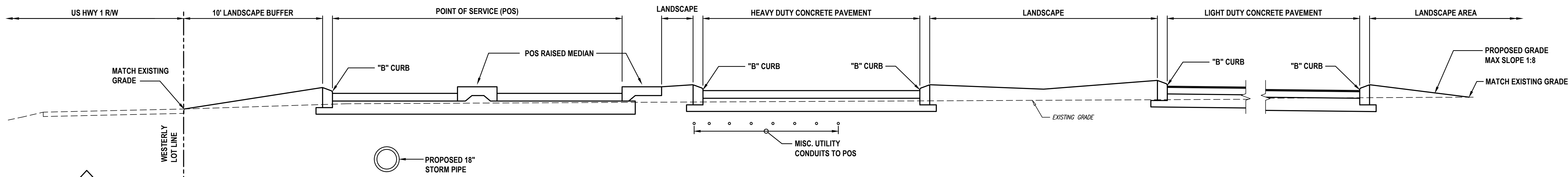




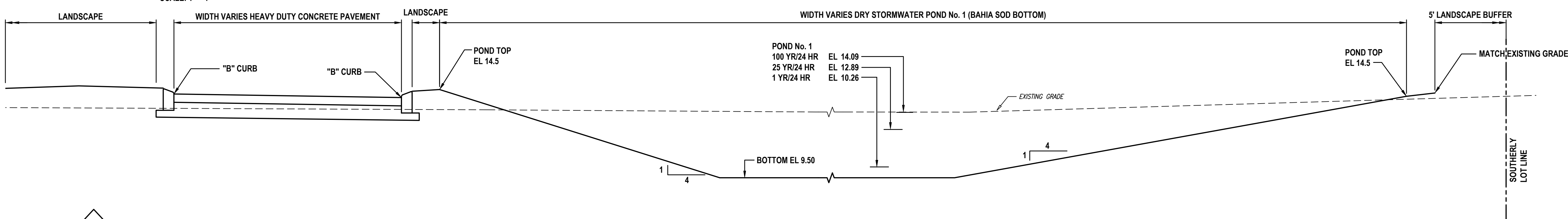
SECTION A C500 C700  
SCALE: 1" = 4'



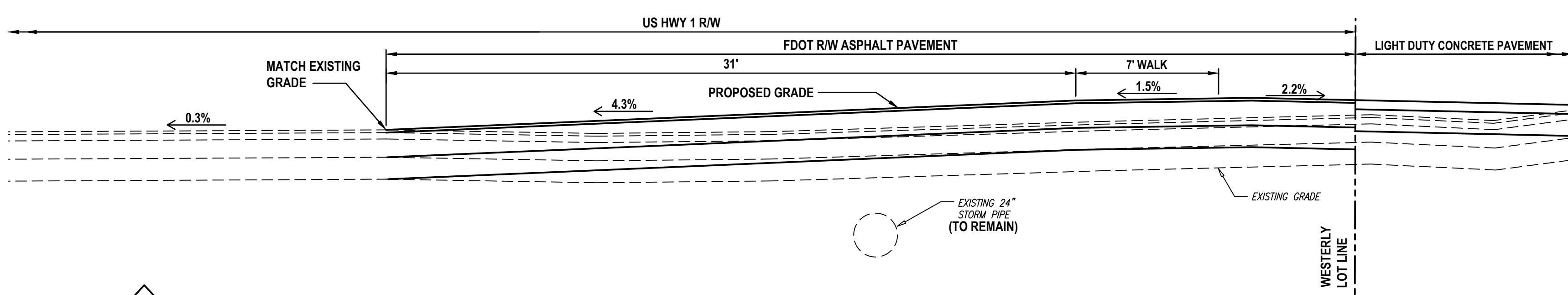
SECTION B C500 C700  
SCALE: 1" = 4'



SECTION C C500 C700  
SCALE: 1" = 4'



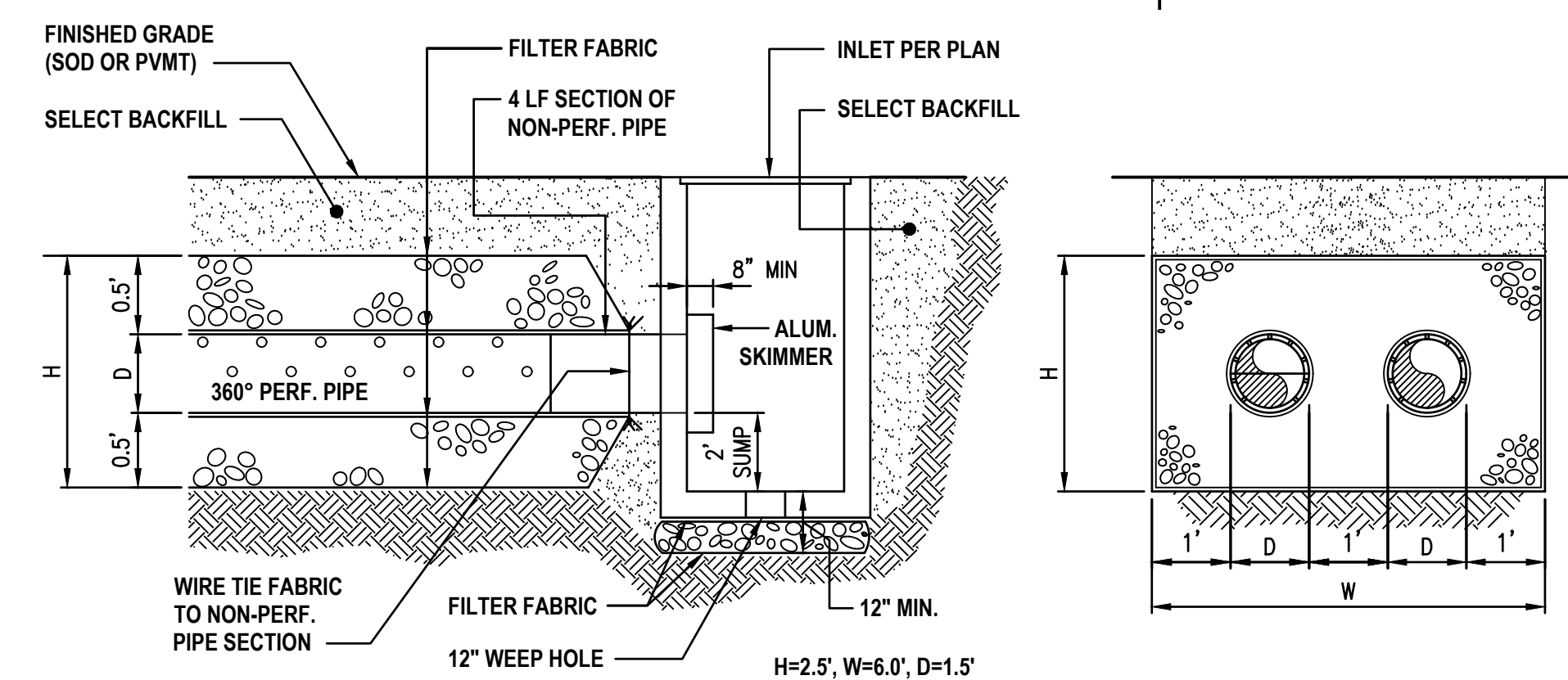
SECTION D C500 C700  
SCALE: 1" = 4'



SECTION E C500 C700  
SCALE: 1" = 4'

#### EXFILTRATION NOTES:

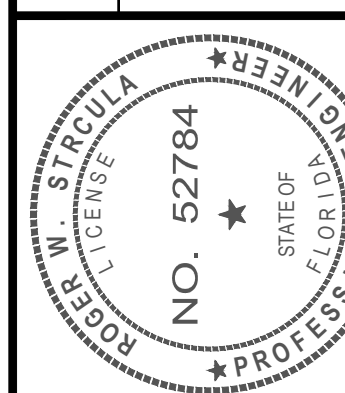
- PIPE SHALL BE DIAMETER AS NOTED, ALUMINUM OR HDPE PIPE, MEETING ASTM D3350 / AASHTO M294 REQUIREMENTS. WITH A 2-2/3" x 1/2" PATTERN. PERFORATIONS TO BE AT LEAST 5/16" DIAMETER AND NOT FEWER THAN 30 PERFORATIONS/SQ. FT. (SHOP FABRICATED HOLES).
- FILTER FABRIC SHALL CONSIST OF WOVEN OR NON-WOVEN FABRIC. IMPERMEABLE LINERS AND BIODEGRADABLE FABRICS ARE NOT PERMITTED. FABRIC SHALL CONFORM TO PHYSICAL REQUIREMENTS IN TABLE I, SECTION 985 OF F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
- SELECT BACKFILL SHALL CONSIST OF WELL-GRADED ROCK, OR ROCK AND COARSE SAND FILL. FILL NOT HAVING A HIGH PROPORTION OF SAND AND/OR FINES WILL NOT BE ACCEPTED. BACKFILL SHALL BE SHALL BE COMPACTED BY MECHANICAL TAMPERS TO 98% MAX. DENSITY (AASHTO T-180). CALCAREOUS MATERIAL IS PROHIBITED.
- A NON-PERFORATED 4" (MIN.) SECTION IS TO BE USED TO CONNECT THE PERFORATED PIPE TO A CATCH BASIN.
- TRENCH MATERIAL SHALL CONSIST OF #4 HARDROCK COARSE AGGREGATE MEETING F.D.O.T. SECTION 901 AND ASTM C-33 AND SHALL BE WASHED, AND FREE OF DELETERIOUS MATERIAL.
- AFTER AGGREGATE HAS BEEN PLACED TO DESIRED ELEVATION, WASH DOWN WITH CLEAR WATER TO ALLOW FOR INITIAL SETTLEMENT. IF SETTLEMENT OCCURS ADD ADDITIONAL AGGREGATE TO REQUIRED ELEVATION.
- BACKFILL ALONG EACH EDGE OF THE TRENCH SHALL BE COMPACTED WITH VIBRATORY ROLLERS.
- AGGREGATE SHALL BE COMPACTED IN TWO LIFTS, THE FIRST PRIOR TO PLACING PIPE, AND THE SECOND AFTER THE TOP AGGREGATE IS PLACED WITH MECHANICAL TAMPERS.
- 12" WEEP HOLE SHALL BE ELIMINATED IF CATCH BASIN IS BELOW NORMAL WATER TABLE OR UNLESS OTHERWISE SHOWN ON THE PLAN.
- TRENCH TO BE CONSTRUCTED AND ADHERED TO OSHA'S TRENCH SAFETY CODE. CONTRACTOR SHALL TAKE PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH BY FOREIGN MATERIAL.



LONGITUDINAL SECTION  
EXFILTRATION ENVELOPE DETAIL  
NOT TO SCALE

#### REVISIONS

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09/30/24	FDOT COMMENTS 08/28/24
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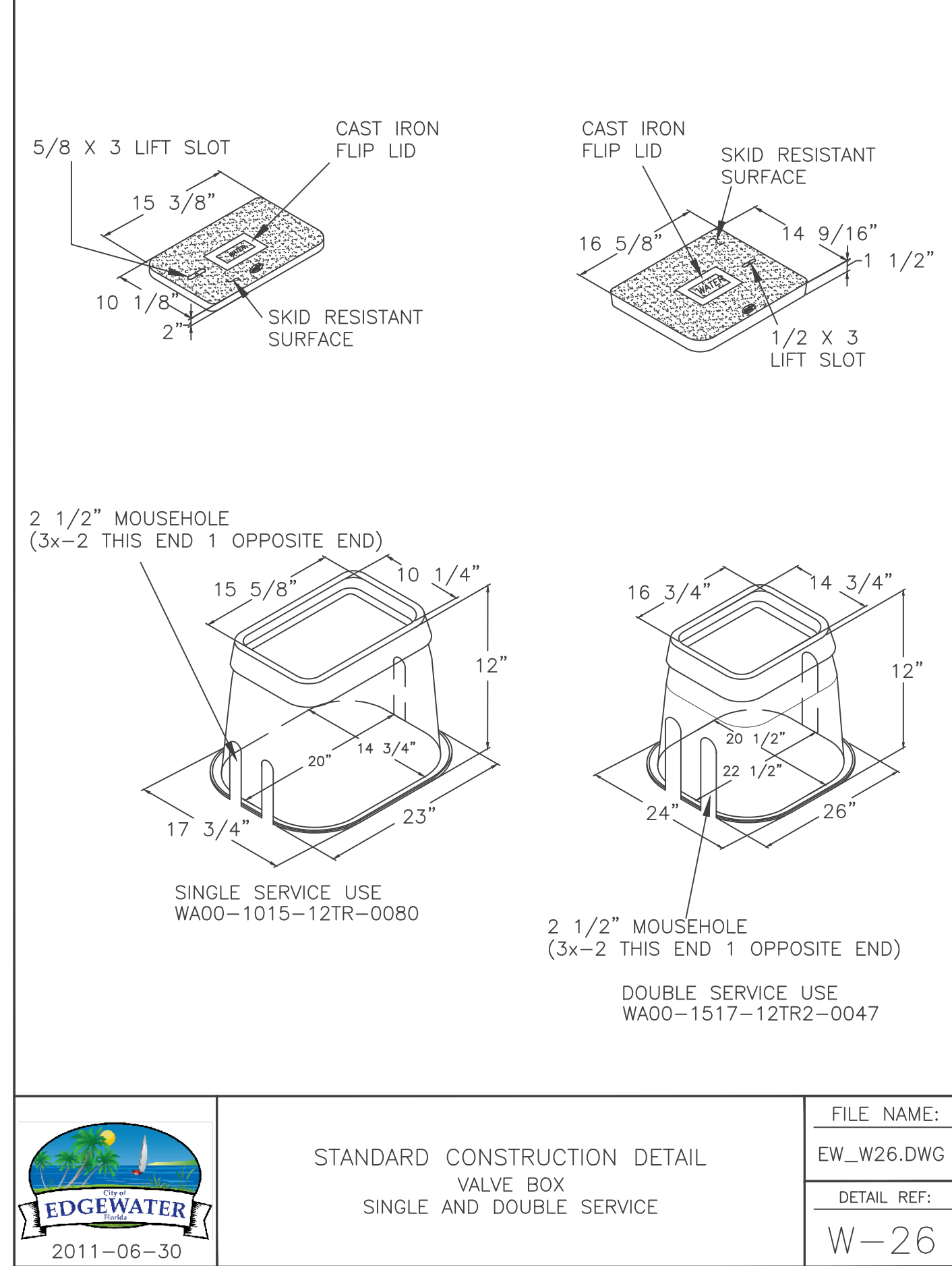
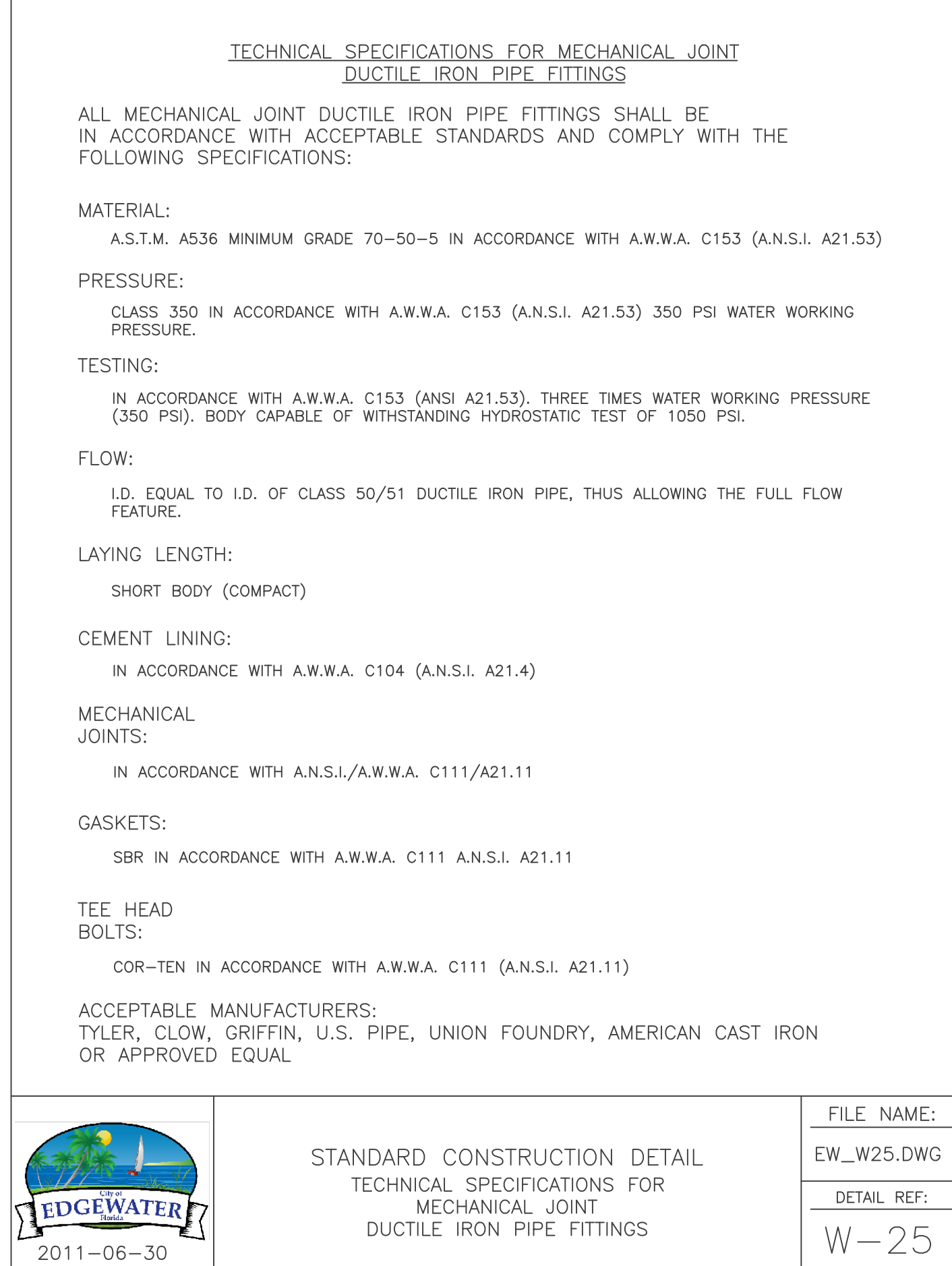
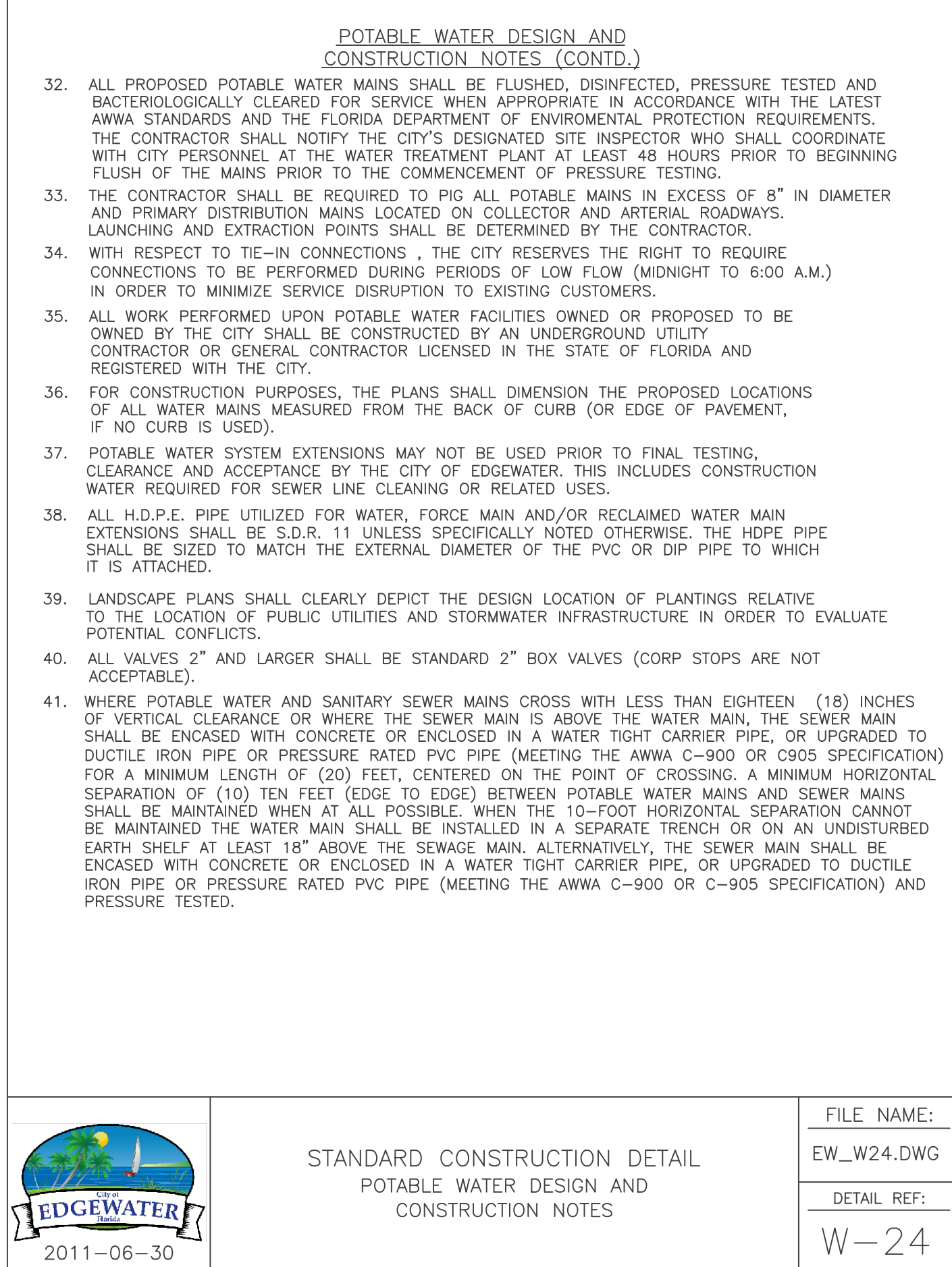
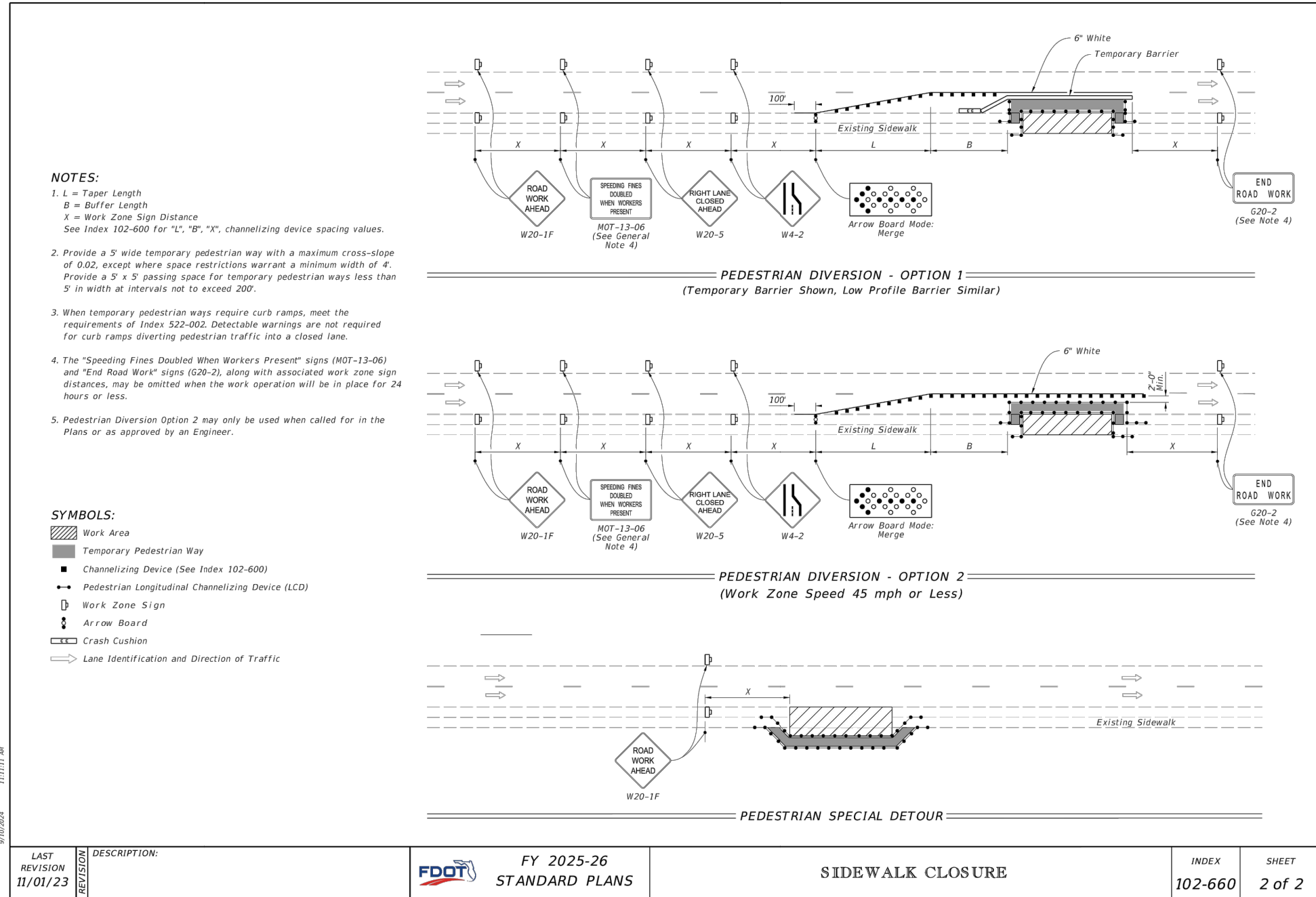
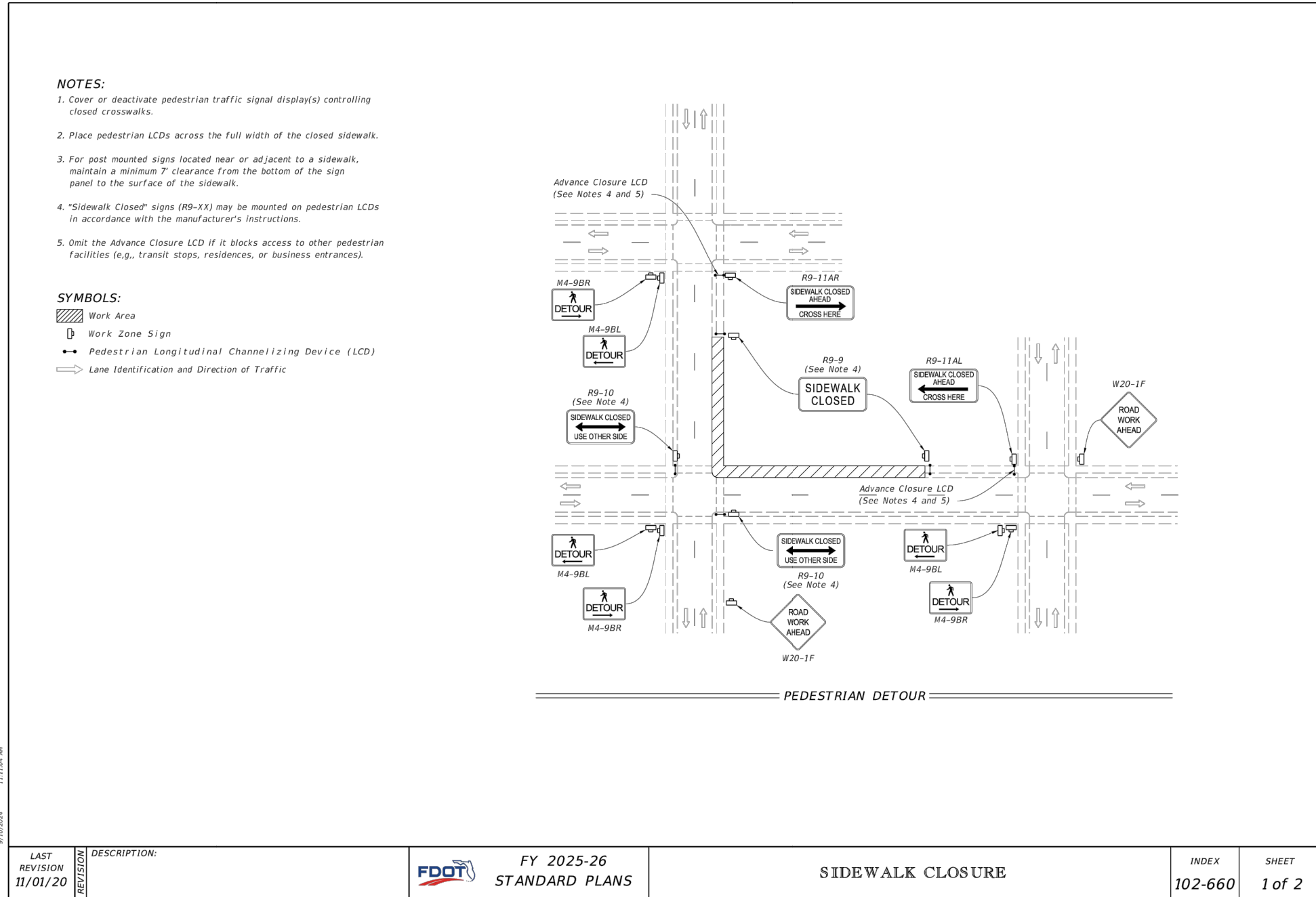
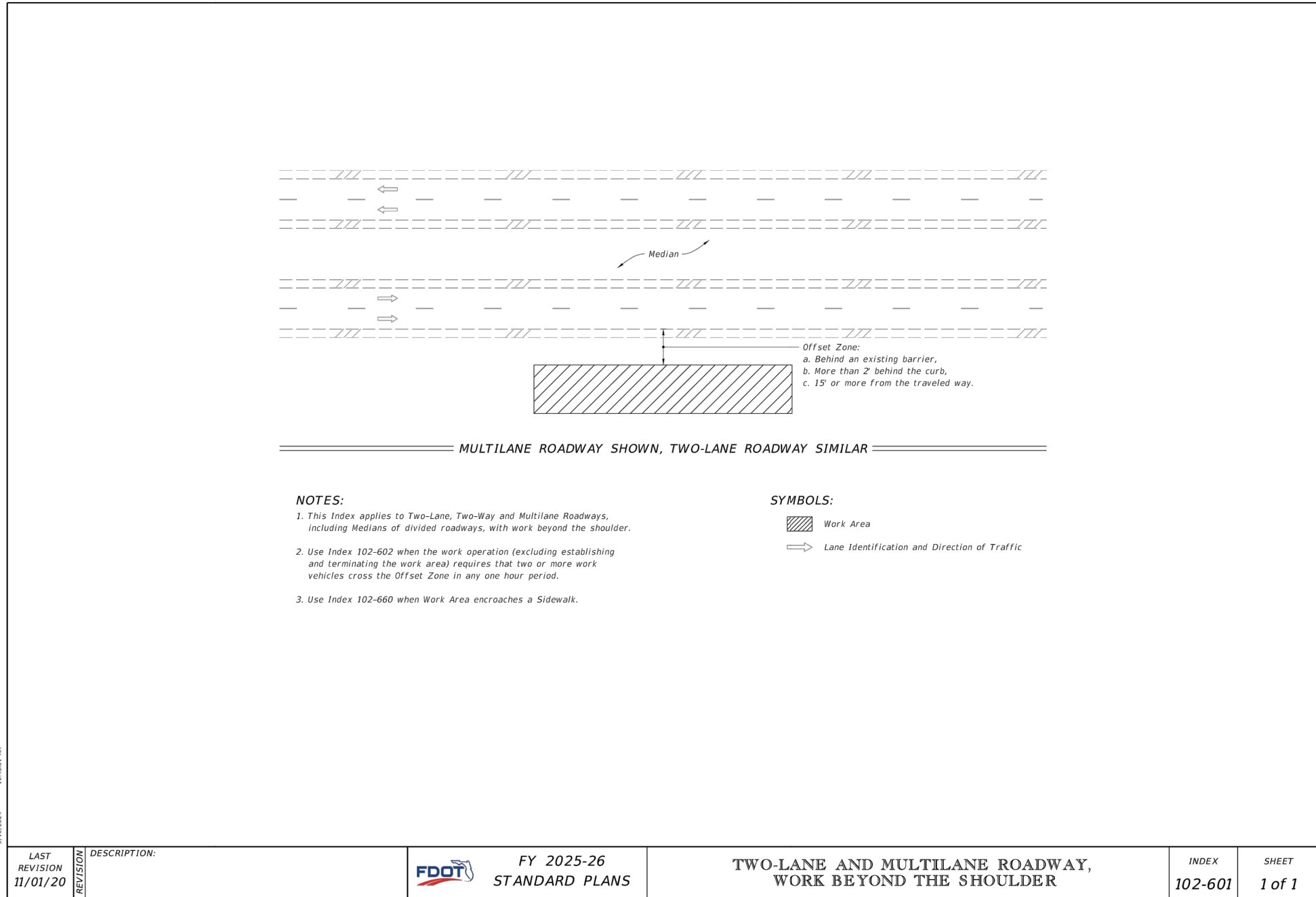
**SECTIONS**  
**SPORTYS CAR WASH**  
1829 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32141

PROJECT No: 231001  
DATE: APRIL 16, 2024  
DESIGN BY: RWS  
DRAWN BY: HMT  
CHECKED BY: RWS  
SCALE: 1" = 20'  
SHEET NUMBER:  
**C700**



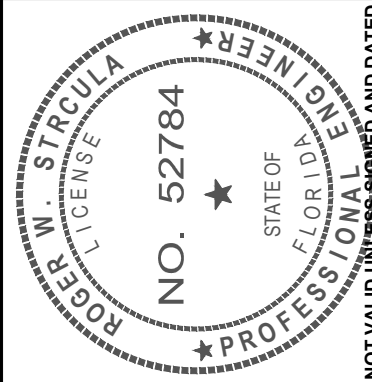
FDOT GENERAL NOTES:

1. MAINTENANCE OF TRAFFIC SHALL BE SUPERVISED BY A CERTIFIED INTERMEDIATE INDIVIDUAL.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY LANE CLOSURES OR BEGINNING ANY CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY.
3. ALL WORK PERFORMED WITHIN THE FDOT RIGHT-OF- WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF FDOT DESIGN STANDARDS, SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE UTILITY ACCOMMODATION MANUAL.
4. IF THE DEPARTMENT DETERMINES THAT AS-BUILT CONDITIONS VARY SIGNIFICANTLY FROM THE APPROVED PLANS, THE PERMITTEE SHALL PROVIDE AS-BUILT PLANS, ALONG WITH A RECORD DRAWINGS REPORT BY PERMITTEE'S PROFESSIONAL ENGINEER, FORM 850-040-19, WITHIN 30 DAYS.
5. IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO REPAIR ANY DAMAGE TO FDOT FACILITIES CAUSED BY CONSTRUCTION OF THE PROJECT.
6. TEST RESULTS OF ANY TESTS TAKEN FOR OR DURING CONSTRUCTION OF THE PERMITTED WORK SHALL BE PROVIDED TO THE FDOT UPON REQUEST.
7. ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT AT THE NEAREST JOINT IN GOOD CONDITION, SO AS TO PRODUCE A CONNECTION WITH NEW CONCRETE THAT IS FREE OF CRACKS, DEFORMITY IN SHAPE, NOTICEABLE VOIDS, SURFACE IRREGULARITIES, AND OTHER DEFECTS.
8. ALL CONCRETE SHALL BE AN APPROVED FDOT MIX DESIGN OF 3,000 PSI FOR SIDEWALKS AND 4,000 PSI FOR DRIVEWAYS.
9. ALL MATERIALS INSTALLED WITHIN FDOT RIGHT-OF-WAY SHALL BE LIMITED TO THOSE ON THE FDOT'S QUALIFIED PRODUCTS LIST OR APPROVED PRODUCT LIST OF TRAFFIC CONTROL SIGNALS AND DEVICES.
10. ALL CONSTRUCTION WITHIN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITION OF THE FDOT DESIGN STANDARDS [INDICES], THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.



REVISIONS

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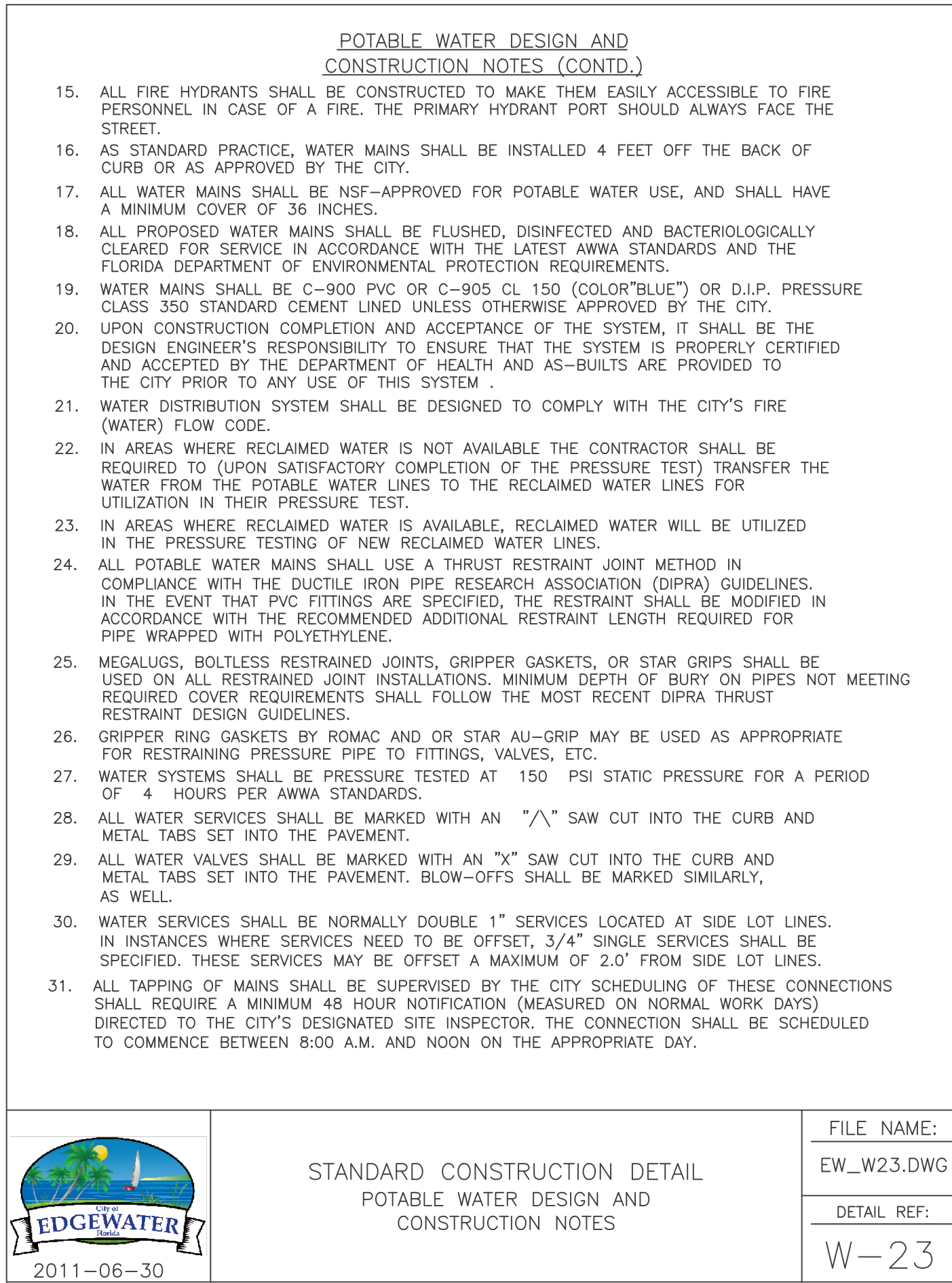
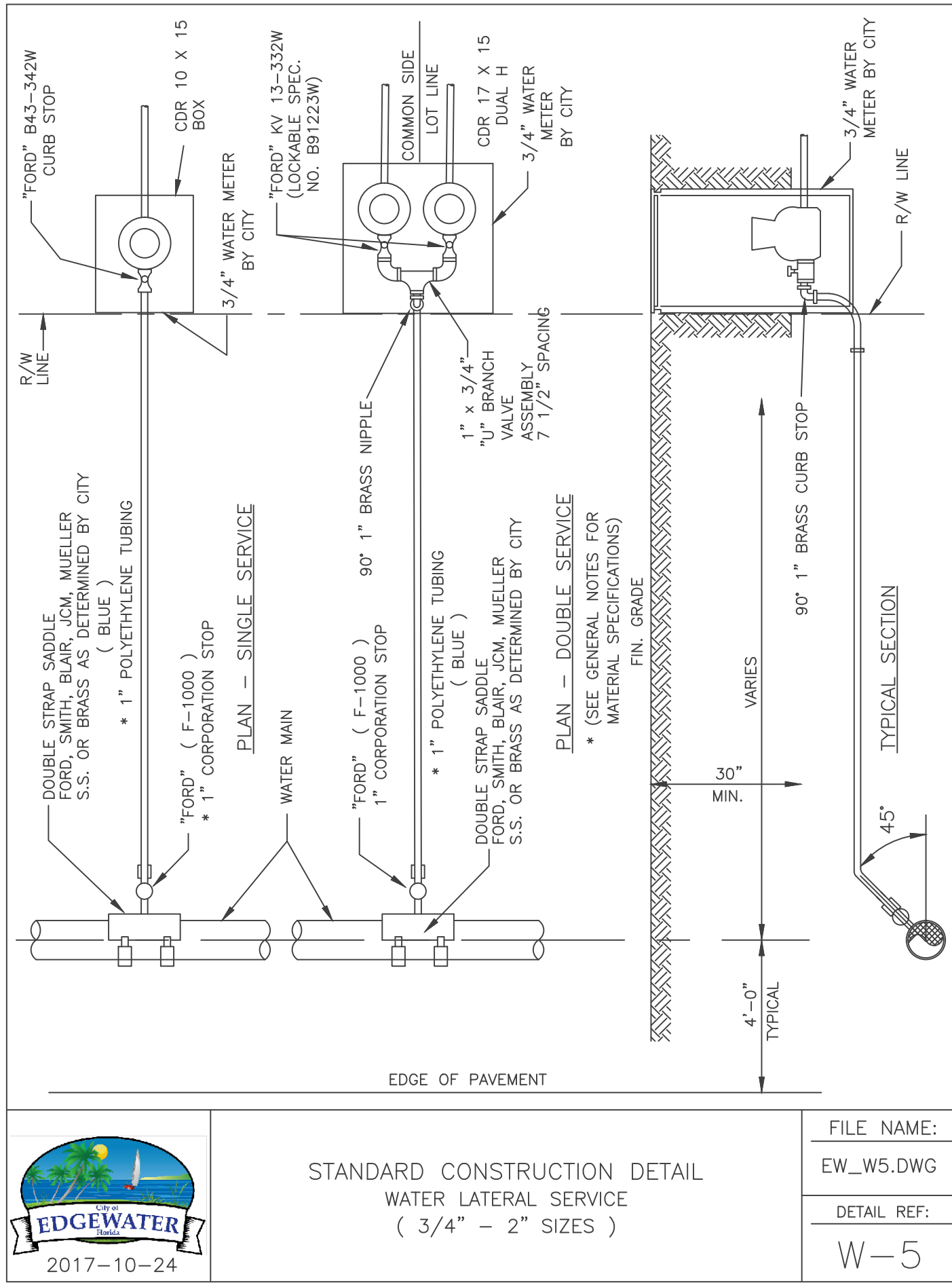
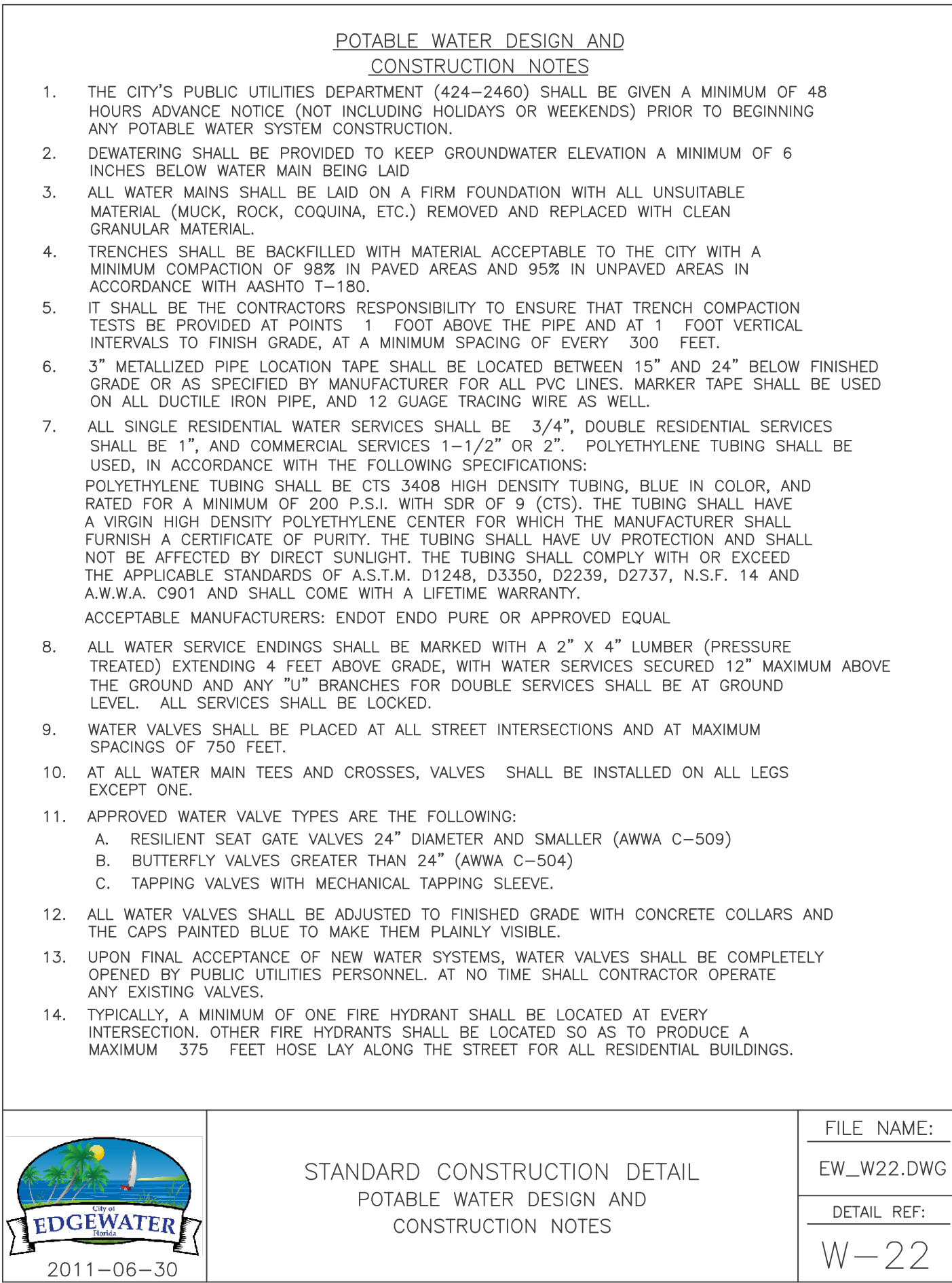
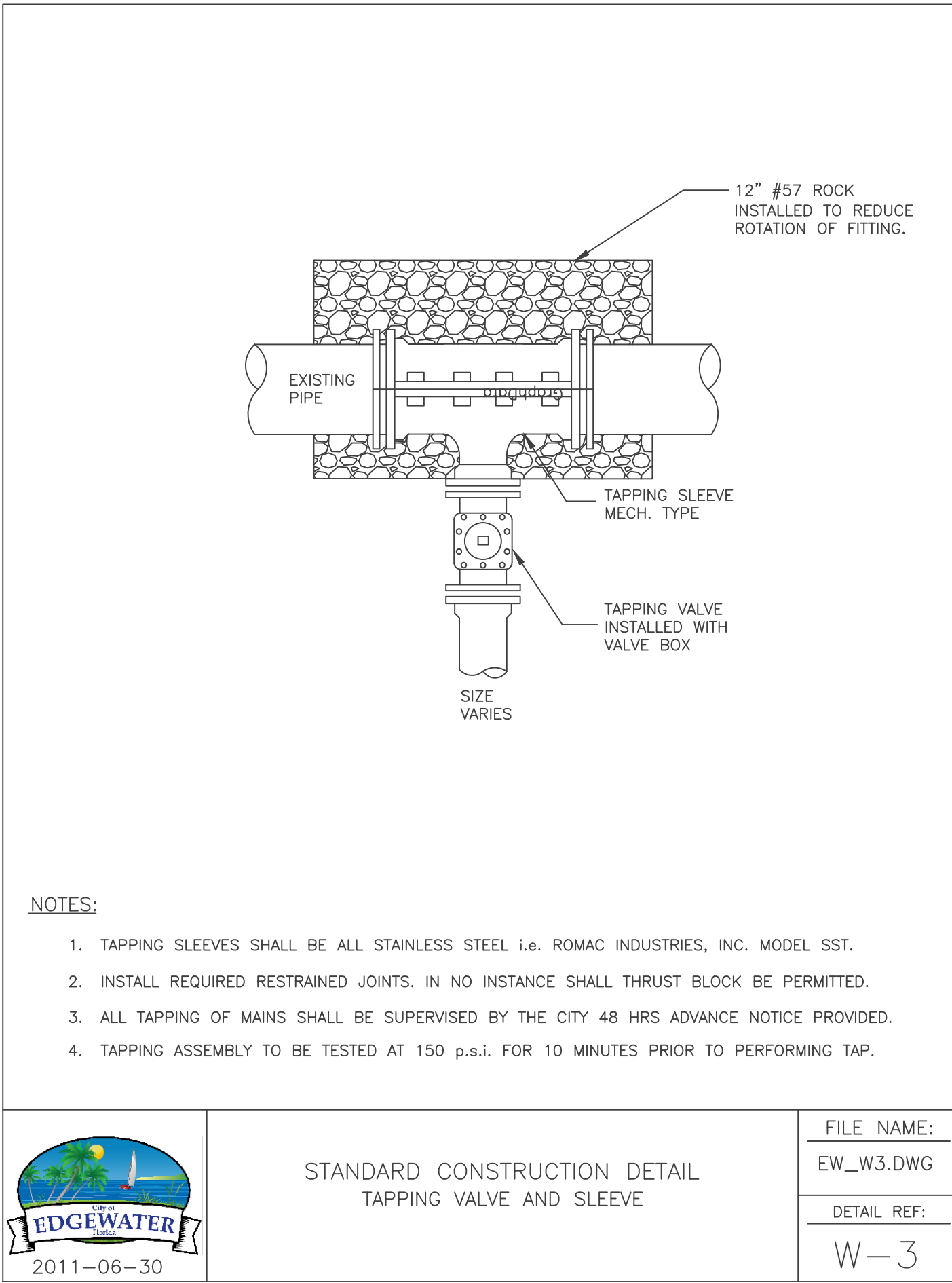
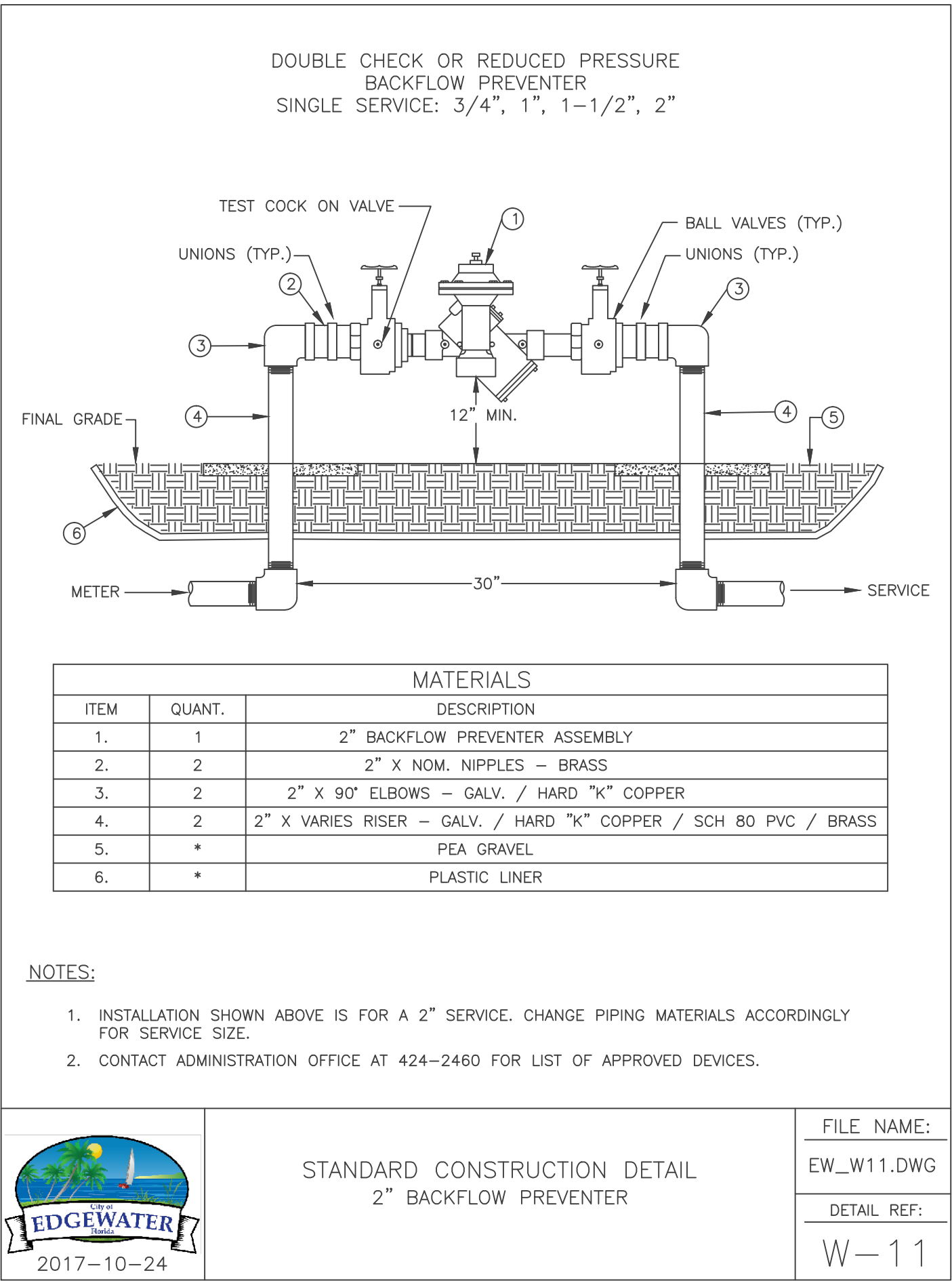
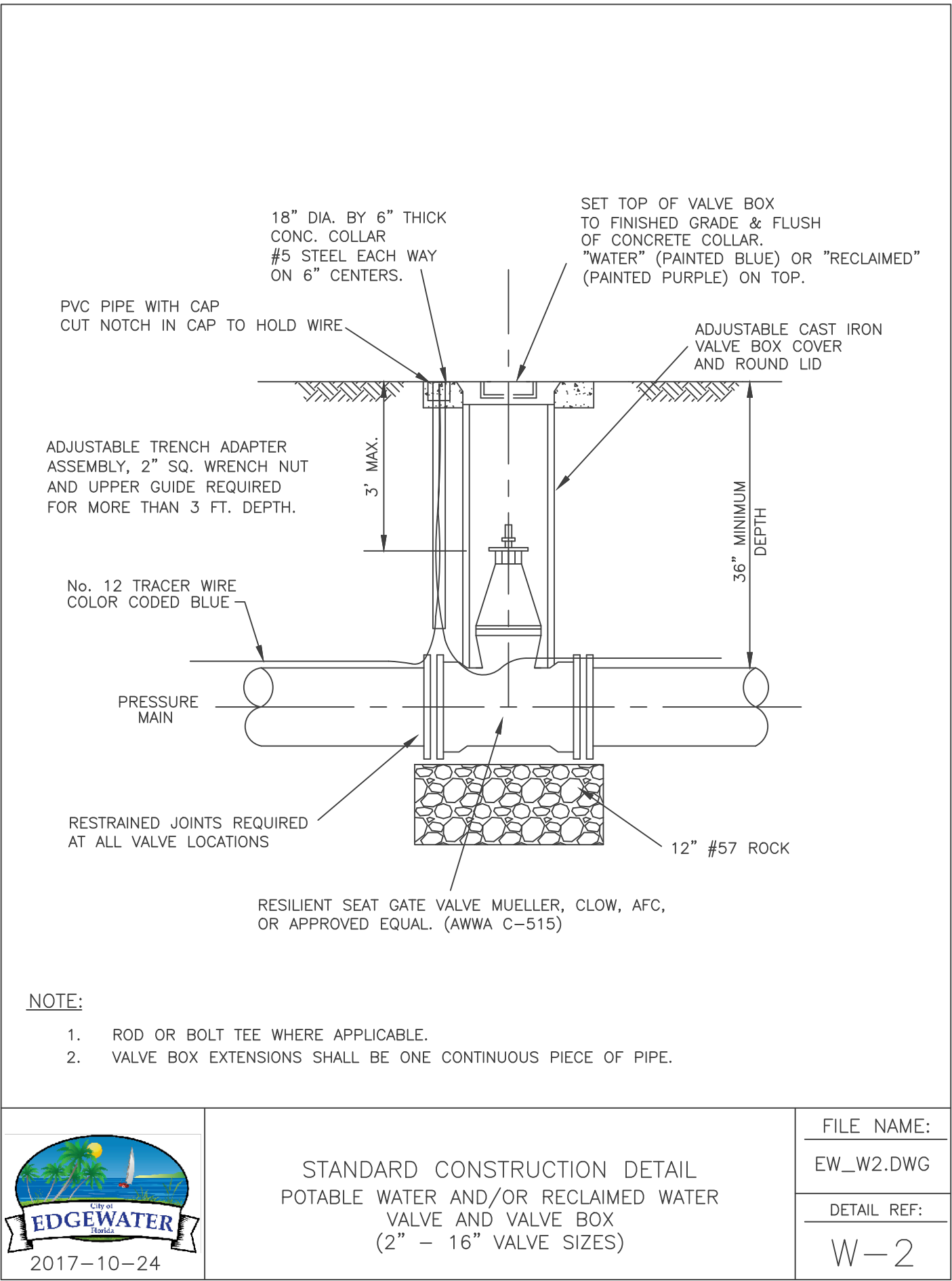
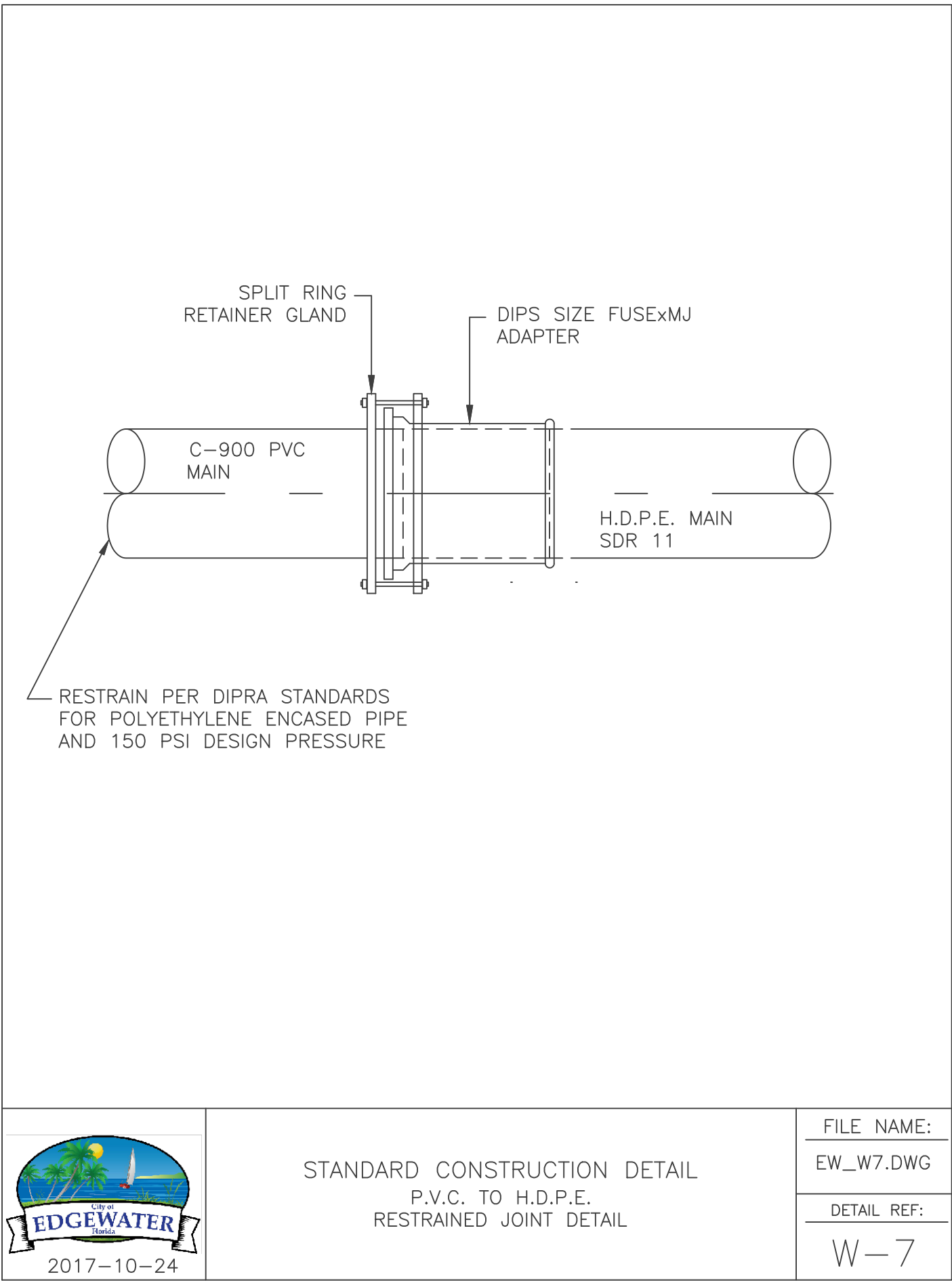
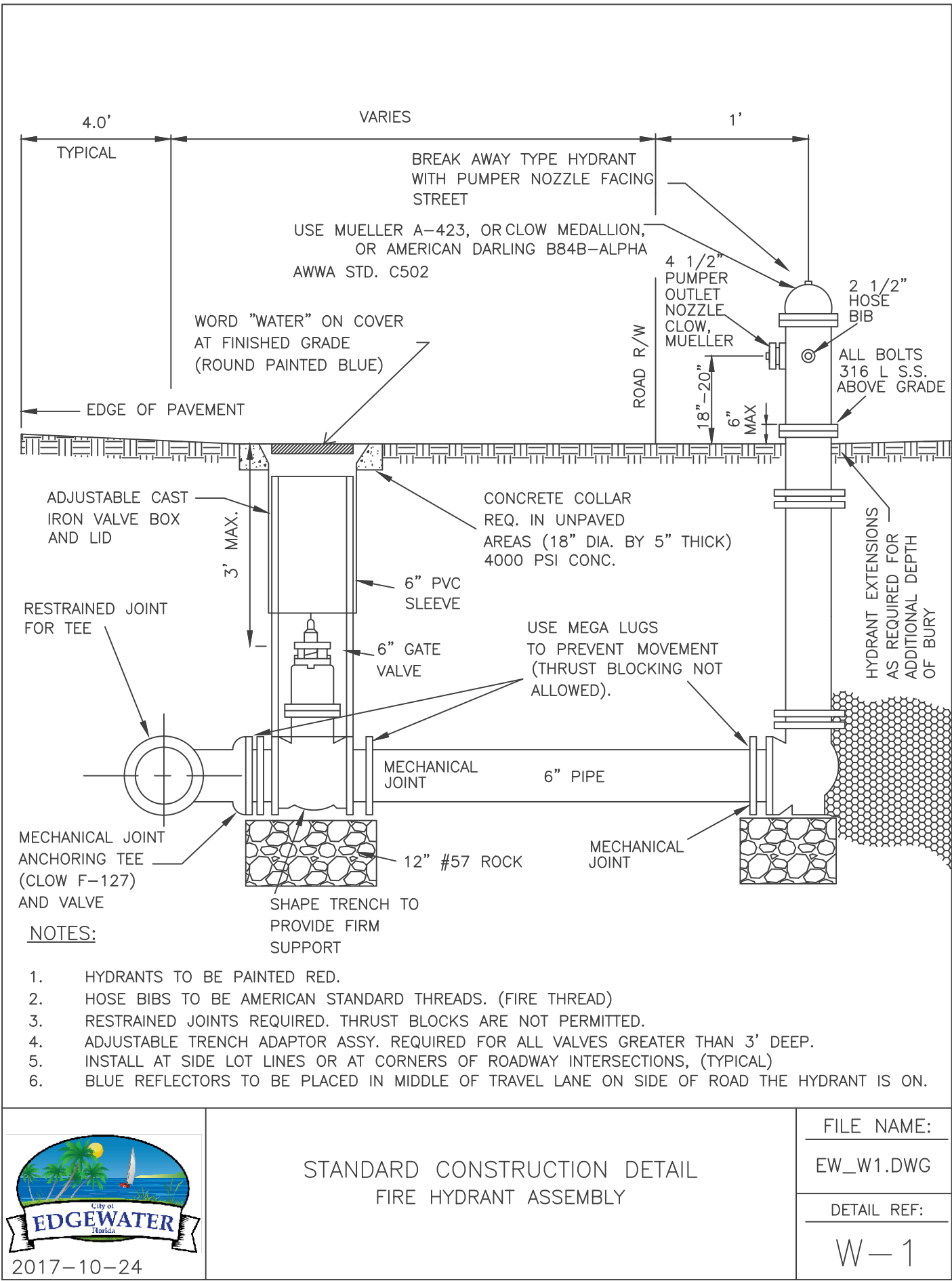
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**FDOT MOT AND DETAILS**  
**SPORTYS CAR WASH**  
1829 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32141

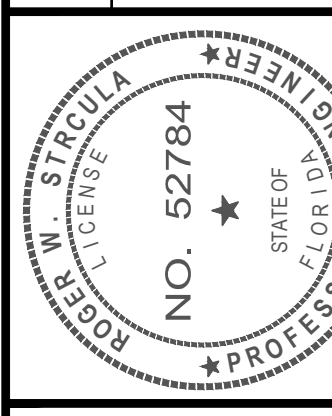
PROJECT No: 231001  
DATE: APRIL 16, 2024  
DESIGN BY: RWS  
DRAWN BY: HMT  
CHECKED BY: RWS  
SCALE: 1" = 20'  
SHEET NUMBER: C701





REVISIONS

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**CITY OF EDGEWATER  
STANDARD DETAILS**  
**SPORTYS CAR WASH**  
1829 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32141

PROJECT No:	231001
DATE:	APRIL 16, 2024
DESIGN BY:	RWS
DRAWN BY:	HMT
CHECKED BY:	RWS
SCALE:	1" = 2'

SHEET NUMBER:  
**C702**



SANITARY SEWER DESIGN AND CONSTRUCTION NOTES

1. THE CITY'S ENVIRONMENTAL SERVICES DEPT. (424-2476) SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY SANITARY SEWER CONSTRUCTION.

2. ALL GRAVITY SANITARY SEWER MAIN LINES SHALL BE 8" DIAMETER MINIMUM. COMMERCIAL SERVICE LATERALS WITH MULTIPLE CONNECTIONS SHALL BE GREEN 6" DIA. OR LARGER. ALL SINGLE FAMILY RESIDENTIAL SERVICE LATERALS SHALL BE 4" - SINGLE SERVICES.

3. ALL GRAVITY SANITARY SEWER LINES SHALL BE GREEN PVC SDR 26, ASTM D-3034. IN PLACES WHERE A MINIMUM COVER OF 4.0' CANNOT BE MAINTAINED, AWWA C-900 OR C-905 GREEN PVC DR-25, CLASS 100 OR CONCRETE ENCASEMENT SHALL BE USED. WATER LINES, RECLAIMED LINES, AND STORM DRAINAGE CROSSINGS SHALL ALSO FOLLOW THE CONCRETE ENCASEMENT REQUIREMENT PER THESE STANDARDS AND AS PER REGULATORY REQUIREMENTS.

4. MINIMUM GRAVITY SANITARY SEWER SLOPES ARE AS FOLLOWS:

8" PIPE 0.40%

10" PIPE 0.30%

12" PIPE 0.22%

5. GRAVITY SANITARY SEWER LINES SHALL BE INSTALLED WHENEVER POSSIBLE UNDER PAVED AREAS WITHIN PUBLIC RIGHTS-OF-WAY. UTILITY EASEMENTS SHALL BE PROVIDED WHENEVER PUBLICLY-OWNED SEWER LINES ARE CONSTRUCTED OUTSIDE OF A PUBLIC RIGHT-OF-WAY.

6. GRAVITY SANITARY SEWER LINE CONSTRUCTION SHALL BE ACCOMPLISHED BY THE USE OF A LASER INSTRUMENT UNLESS ANOTHER METHOD IS PREVIOUSLY APPROVED BY THE CITY.

7. THE CONTRACTOR SHALL AT ALL TIMES, DURING PIPE LAYING OPERATIONS, DEWATER THE GROUND SUFFICIENTLY TO KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6" BELOW THE PIPE BEING LAID WITHIN THE AREA OF THE TRENCH.

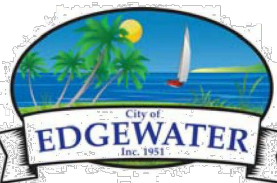
8. ALL PIPES SHALL BE LAID ON A FIRM FOUNDATION. SOFT OR SPONGY BEDDING FOR PIPES IS NOT ACCEPTABLE. ANY UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH A DRY, COMPACTED, GRANULAR MATERIAL SATISFACTORY TO THE CITY.

9. ON ALL EXCAVATION AND BACKFILLING THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING AND BRACING IN ORDER TO PROVIDE FOR THE SAFETY OF WORKMEN, AS WELL AS REPRESENTATIVES OF THE CITY, THE DESIGN ENGINEER, AND THE DEVELOPER.

10. ALL TRENCHES SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL AND COMPACTED TO THE SPECIFIED MINIMUM COMPACTION (95% IN UNPAVED AREAS AND 98% IN PAVED AREAS) OF THE OPTIMUM DENSITY OF THAT MATERIAL BASED ON THE AASHTO T-180 MODIFIED PROCTOR TEST.

11. THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING LABORATORY AT HIS OWN EXPENSE TO INSURE THAT COMPACTION OF ALL FILL MATERIAL IS COMPLETED PROPERLY. TESTS SHALL BE DONE ONE FOOT ABOVE THE PIPE AND THEN AT ONE FOOT VERTICAL INTERVALS UNTIL FINAL GRADE IS REACHED. TESTING SHALL BE COMPLETED AND TEST DOCUMENTS SUBMITTED TO THE CITY AT A MINIMUM FREQUENCY OF ONE SET OF TESTS BETWEEN EACH MANHOLE AND ONE ADDITIONAL SET OF TESTS AT EVERY OTHER SET OF TESTS. IDENTIFICATION OF TEST LOCATIONS SHALL BE CLEARLY INDICATED ON TEST REPORTS. TEST RESULTS SHALL BE FORWARDED PROMPTLY TO THE CITY'S DESIGNATED SITE INSPECTOR.

12. THE CONTRACTOR SHALL INSTALL A METALLIZED FOIL LOCATOR TAPE, OR SIMILAR DEVICE AS MAY BE APPROVED BY THE CITY FOR THE FULL LENGTH OF ALL PVC SEWAGE FORCE MAINS. THIS PIPE LOCATOR AID SHALL BE INSTALLED BETWEEN 15" AND 24" BELOW FINISHED GRADE OR AS DIRECTED BY THE MANUFACTURER. TAPE SHALL BE COLOR CODED GREEN FOR SANITARY SEWER AND FORCE MAIN. INSTALL 12 GAUGE TRACING WIRE IN TRENCH.

2023-01-25

STANDARD CONSTRUCTION DETAIL  
SANITARY SEWER DESIGN AND  
CONSTRUCTION NOTES

FILE NAME:  
EW\_S23.DWG

DETAIL REF:  
S-23

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES:  
(CONTD.)

13. ALL TESTING REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR / DEVELOPER.

14. ALL LOCAL COLLECTION SANITARY SEWER MANHOLES SHALL BE PRECAST WITH A MINIMUM INSIDE DIAMETER OF 4 FEET.

15. STANDARD MANHOLES SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 400 FEET.

16. ALL SEWER FITTINGS TO BE "HARCO" OR CITY APPROVED EQUAL.

17. MANHOLE RIMS SHALL MATCH FLUSH WITH THE FINISH GRADE ELEVATION IN PAVED AREAS AND A MINIMUM OF 0.2 FEET AND MAXIMUM OF 0.5 FEET ABOVE GRADE GENERALLY IN UNPAVED AREAS.

18. THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER MANHOLES IN SUCH A WAY THAT SEWER LINES DO NOT INTERSECT SEALED JOINTS BETWEEN SECTIONS OF THE MANHOLE.

19. RUBBER BOOTS AND STAINLESS STEEL BANDS SHALL BE UTILIZED IN THE CONNECTION OF THE SEWER MAIN TO THE MANHOLES (SEE STANDARD MANHOLE AND BOOT DETAIL).

20. INDIVIDUAL SANITARY SERVICE CONNECTORS ON NEW CONSTRUCTION SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES, AND MUST CONNECT TO SEWER MAIN LINES BY USE OF WYE CONNECTIONS, UNLESS OTHERWISE BE APPROVED BY THE CITY.

21. FOR SINGLE FAMILY HOMES, SINGLE OR DOUBLE FOUR INCH SEWER SERVICES LATERALS SHALL BE CONSTRUCTED SINGLES AT EACH LOT OR UNIT AND LOCATED ON THE DOWNSTREAM SIDE OF THE LOT CENTER LINE. DOUBLES LOCATED ON THE LOT LINES THESE SERVICES SHALL BE EXTENDED 4 FEET ABOVE GROUND AT THE PROPERTY LINE WITH A PVC RISER AND PLUG BEING EASILY VISIBLE FROM THE ROAD. RUBBER SEAL FITTINGS SHALL BE USED ON ALL LINES. NO GLUED JOINTS ARE PERMITTED ON LATERALS, INCLUDING DOUBLES.

22. FOR MULTI-FAMILY AND COMMERCIAL SITES, SIX INCH MINIMUM SEWER SERVICES AND CLEANOUTS SHALL BE PROVIDED AS APPROVED BY THE CITY.

23. SANITARY SEWER LIFT STATIONS AND FORCE MAINS, SIZE, MATERIAL, AND DESIGNS SHALL BE APPROVED BY THE CITY. LIFT STATIONS SHALL BE CONSTRUCTED WITH A MINIMUM WET WELL INTERIOR DIAMETER OF 6 FEET. FORCE MAINS SHALL BE A MINIMUM 6 INCH DIAMETER.

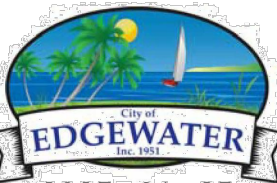
24. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER TO PREPARE AND SUBMIT FLOTATION CALCULATIONS TO SIZE THE BASE OF THE WET WELL, AND ANY MANHOLES AS DEEMED NECESSARY BY THE CITY.

25. SANITARY SEWER DROP MANHOLES SHALL ONLY BE USED UNDER SPECIAL CONDITIONS AS APPROVED BY THE CITY. DROPS LESS THAN 2.0' SHALL NOT BE ALLOWED.

26. ALL SANITARY SEWER MANHOLE COVERS SHALL HAVE THE WORDS "EDGEWATER, FLORIDA SANITARY SEWER" CAST INTO THEM.

27. ALL SANITARY SEWER FORCE MAINS, SHALL BE PVC AWWA C-900, OR C-905 (COLOR "GREEN") (PRESSURE FITTINGS, PRESSURE CLASS 150 OR 250 EPOXY LINED DIP, THE FORCE MAIN MINIMUM DEPTH OF COVER SHALL BE 36".

28. ALL SANITARY SEWER FORCE MAINS SHALL USE A THRUST RESTRAINT JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION GUIDELINES MODIFIED TO ACCOMMODATE PVC PIPE BY FOLLOWING THE RECOMMENDED INCREASE IN RESTRAINT LENGTH CORRESPONDING TO THE INSTALLATION OF POLYETHYLENE WRAP. IN NO INSTANCE SHALL THRUST BLOCKS BE PERMITTED.

2023-01-25

STANDARD CONSTRUCTION DETAIL  
SANITARY SEWER DESIGN AND  
CONSTRUCTION NOTES

FILE NAME:  
EW\_S24.DWG

DETAIL REF:  
S-24

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES  
(CONTD.)

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

30. THE CITY RESERVES THE RIGHT TO REQUIRE THE DEVELOPER TO PERFORM VACUUM TESTING OF ALL SANITARY MANHOLES, AIR TEST SEWER MAINS, AND REQUIRES THAT ALL SANITARY SEWER MAIN LINES BE TELEVIEWED PRIOR TO FINAL ACCEPTANCE. LATERALS SHALL BE TELEVIEWED UPON DEMAND BY THE CITY PRIOR TO FINAL ACCEPTANCE WHEN IT IS SUSPECTED THAT A PROBLEM EXISTS.

31. ALL SEWER MAINS, PRIOR TO ACCEPTANCE BY THE CITY AND PRIOR TO ANY FINAL PAYING OPERATIONS, SHALL BE CLEANED FLUSHED AND TELEVIEWED USING A "PAN AND TILT" CAMERA BY A CITY APPROVED CONTRACTOR. THE VIDEO SHALL BE NON-STOP WITH AUDIO DESCRIBING WHAT IS BEING REVIEWED. WRITTEN VIDEO LOSS DESCRIBING THE CONDITION OF THE LINES SHALL ACCOMPANY THE TAPE SUBMISSION TO THE CITY PRIOR TO COMMENCING ANY INSTALLATION OF ASPHALT OR CONCRETE PAVEMENT. RE-TAPING MAY BE REQUIRED BY THE CITY IF ADDITIONAL CLEARING OR CORRECTIVE ACTIONS ARE NECESSARY.

32. ALL MANHOLES WITH FORCE MAIN CONNECTIONS SHALL BE OUTFITTED WITH EGRO LINERS OR OTHER TYPES OF LINERS APPROVED BY THE CITY. IN ADDITION, THE CITY MAY REQUIRE LINES TO BE INSTALLED IN AREAS WHERE THE ENVIRONMENTAL SERVICES DEPARTMENT BELIEVES THE NEED IS JUSTIFIED.

33. ALL SEWER LINES WHICH ARE CONSTRUCTED OUTSIDE OF PUBLIC RIGHTS-OF-WAY WITHIN SIDE YARDS, BACKYARDS, AND OTHER POORLY ACCESSIBLE AREAS SHALL BE CONSTRUCTED OF C-900 PVC. ABSOLUTELY NO USE OF PLASTIC STYRENE FITTINGS SHALL BE ALLOWED.

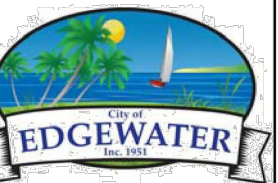
34. SEWER LATERAL LOCATIONS SHALL BE MARKED ALONG THE OUTSIDE OF THE CURB WITH A SAW CUT "V", OR BY A METAL TAB SET INTO THE PAVEMENT.

35. CONTEC A-2000 PVC PIPE SHALL NOT BE ALLOWED FOR USE.

36. 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 PERSONALLY INSPECT ALL JOINT SEALS PRIOR TO BACKFILLING OPERATIONS.

37. ALL PROPOSED SEWER FORCE MAINS SHALL BE FLUSHED, PRESSURE TESTED AND CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE WITH CITY PERSONNEL AT THE ENVIRONMENTAL SERVICES DEPARTMENT (AS APPROPRIATE) AT LEAST 24 HOURS PRIOR TO BEGINNING A FULL-DIAMETER FLUSH OF THE MAINS PRIOR TO THE COMMENCEMENT OF PRESSURE TESTING (SUBJECT TO AVAILABILITY).

38. THE CITY MAY REQUIRE THE CONTRACTOR TO PIG FORCE MAINS IN EXCESS OF 6" IN DIAMETER AND PRIMARY TRANSMISSION MAINS LOCATED ON COLLECTOR AND ARTERIAL ROADWAYS. LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR.

2023-01-25

STANDARD CONSTRUCTION DETAIL  
SANITARY SEWER DESIGN AND  
CONSTRUCTION NOTES

FILE NAME:  
EW\_S25.DWG

DETAIL REF:  
S-25

SANITARY SEWER DESIGN AND CONSTRUCTION NOTES  
(CONTD.)

39. ANY TIE INTO AN EXISTING MANHOLE WILL BE COORDINATED WITH THE CITY, AND ALL CONFINED SPACE HAZARDS AND PROCEDURES WILL BE FOLLOWED.

40. ANY TIE INTO AN EXISTING SYSTEM WILL BE SWEEP IN THE DIRECTION OF FLOW.

41. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL OSHA, DOT, OR ANY OTHER RULES & REGULATIONS THAT MAY APPLY.

42. AS A GENERAL RULE, THE NUMBER OF JOINTS SHALL BE LIMITED WHENEVER POSSIBLE. IN SPECIAL CASES WHERE A POINT REPAIR TO AN 8" TO 12" PVC SEWER MAIN IS REQUIRED, THE PROPER RIGID WRAP AROUND SLEEVE SUCH AS A JCM-210 OVERSIZED DUCTILE IRON COUPLING OR AN APPROVED EQUAL MAY BE ALLOWED BY SPECIAL APPROVAL BY THE CITY.

43. ALL IN-LINE SANITARY SEWER FORCE MAIN VALVES SHALL BE RESILIENT SEAT (AWWA C-509) VALVES FEATURING A LINED DUCTILE IRON BODY.

44. ALL TAPPING OF MAINS AND CORING OF MANHOLES SHALL BE COORDINATED WITH THE CITY BY AN APPROVED CONTRACTOR AND BILLED IN ACCORDANCE WITH THE ADOPTED FEE RESOLUTION. SCHEDULING OF THESE CONNECTIONS SHALL REQUIRE A MINIMUM 48 HOUR NOTIFICATION (MEASURED ON NORMAL WORK DAYS) DIRECTED TO THE CITY'S DESIGNATED SITE INSPECTOR WHO SHALL COORDINATE THE WORK DIRECTLY WITH THE ENVIRONMENTAL SERVICE DEPARTMENT. SUBSEQUENTLY THE CONNECTION SHALL BE SCHEDULED TO COMMENCE ON THE APPROPRIATE DAY AND TIME ESTABLISHED BY CITY.

45. WITH RESPECT TO TIE-IN CONNECTIONS AND CORING OPERATIONS, THE CITY RESERVES THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 6:00 A.M.) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.

46. ALL WORK PERFORMED UPON SANITARY SEWER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY A LICENSED UNDERGROUND UTILITY CONTRACTOR, OR LICENSED GENERAL CONTRACTOR, WHO IS LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.

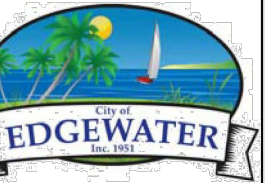
47. UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AS-BUILTS ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THE SYSTEM.

48. FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION THE LOCATION, OF ALL FORCE MAINS MEASURED FROM THE BACK OF CURB ( OR EDGE OF PAVEMENT, IF NO CURBING EXISTS. )

49. ALL HDPE PIPE INSTALLED FOR SEWAGE FORCE MAINS SHALL BE SDR 11 UNLESS SPECIFICALLY NOTED OTHERWISE. THE HDPE PIPE SHALL BE SIZED TO MATCH THE EXTERNAL DIAMETER OF THE PVC OR DIP TO WHICH IT IS ATTACHED.

50. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.

51. ALL UTILITY INSTALLATIONS ARE SUBJECT TO REVIEW AND APPEAL BY THE CITY OF EDGEWATER. ALL STRUCTURES AND EQUIPMENT SUPPLIED AND/ OR INSTALLED SHALL MEET QUALITY AND PERFORMANCE STANDARDS PRIOR TO ACCEPTANCE. SUBSTANDARD INSTALLATIONS MAY BE REJECTED, REMEMBER MEASURES ARE SUBJECT TO CITY APPROVAL.

2023-01-25

STANDARD CONSTRUCTION DETAIL  
SANITARY SEWER DESIGN AND  
CONSTRUCTION NOTES

FILE NAME:  
EW\_S26.DWG

DETAIL REF:  
S-26

C.I. FRAME AND COVER TO MEET MUNICIPAL STANDARDS

PAVEMENT

12" CONCRETE RING

BASE

MIN 24"

TOP OF BASE

PAVEMENT

12" RING OF CONCRETE TO BE PLACED AROUND MANHOLE FRAME PRIOR TO PAVING OF ROADWAY FROM TOP OF CONC TO BASE FINISH GRADE.

ADJUST TO FINISHED GRADE W/ SEWER BRICK AND MORTAR. ( MAX. 12" )

1'-0"

2'-0"

WALL REINFORCEMENT PER ASTM C-478

4000 PSI @ 28 DAY CONCRETE, TYPE II CEMENT

EW-1 OR COAL TAR EPOXY COATING INTERIOR AND EXTERIOR MIN 12 MIL THICK (TOTAL) MIN 3 COATS COLORED AS FOLLOWS: 1-BLACK, 2-RED, 3-GREY

4'-0" MINIMUM INSIDE DIAMETER

8" MIN. WALL THICKNESS

MANHOLE

BRICK AND MORTAR INVERT

RUBBER BOOT CONNECTION (SEE DETAIL S-8)


MIN 1'

TYPICAL BASE REINFORCEMENT SHALL BE NO.4 BARS @ 12" O.C. FOR DEPTHS UNDER 6 FT., NO.4 BARS @ 9" O.C. FOR GREATER DEPTHS.

8" MINIMUM BASE THICKNESS

INSTALL EZ-WRAP PLASTIC OR EQUAL AT ALL JOINTS (MINIMUM 9" WIDTH)

MINIMUM OF 1' #57 AGGREGATE SHALL BE USED UNDER WET CONDITIONS FOR BEDDING OF STRUCTURE AS DIRECTED BY CITY

2023-01-25

STANDARD CONSTRUCTION DETAIL  
STANDARD MANHOLE DETAIL

FILE NAME:  
EW\_S1.DWG

DETAIL REF:  
S-1

NOTES:

1. ON TRANSITIONS BETWEEN LARGER DIAMETER AND SMALLER SEWER COLLECTORS, OUTVERTS OF SEWERS SHALL BE MATCHED.

2. NON-PENETRATING PICK-HOLES IN ALL CONCRETE SECTIONS.

3. USE FARBERTITE BITUMASTIC SEALER BETWEEN SECTIONS OF MANHOLES.

4. 0.1' - DROP ACROSS MANHOLE TYP.

5. ALL MANHOLE TROUGHS AND BENCHES ARE TO BE EPOXY PAINTED BEFORE FINAL INSPECTION.

6. LAST MANHOLE UPSTREAM OF A LIFT STATION MUST BE LINED W/ SPECTRA SHIELD OR EQUAL.

CENTERLINE OF STREET

TOP OF PAVEMENT

TYPICAL SURFACE

MAX. DEFLECTION AS PER MANUFACTURER'S RECOMMENDATIONS

FOR COVER OVER EXIST. PIPE EXCEEDING 3'-0"

PVC BEND SHORT RADIUS

SAND CUSHION 3" MIN.


EXIST. PIPE

PVC PIPE MATERIAL

MIN. SLOPE 1/4" PER FOOT

ALTERNATE GRADIENT FOR HOUSE SERVICE SEWERS AT CONFLICTS WITH EXISTING STORM SEWERS & OTHER EXISTING CONDUITS

APPROVED PIPE MATERIALS-PVC (SDR 26)

2023-01-25

STANDARD CONSTRUCTION DETAIL  
SEWER LINE UTILITY CROSSING DETAIL

FILE NAME:  
EW\_S9.DWG

DETAIL REF:  
S-9

P.V.C. BRASS PLUG REQ'D IN DRIVEWAYS AND PAVEMENT

6"

6"

FINISHED GRADE

6" RING OF CONCRETE

COMPACTED BACKFILL


CLEANOUT DIAMETER SIZE TO MATCH SEWER LATERAL SIZE

SANITARY TEE FITTING

PIPE SIZE VARIES

#5 REBAR W/ CAP MIN 18" EMBEDDED

PIPE SIZE VARIES

2023-01-25

STANDARD CONSTRUCTION DETAIL  
CLEANOUT DETAIL

FILE NAME:  
EW\_S12.DWG

DETAIL REF:  
S-12

18" DIA. x 6" THICK CONG. COLLAR WITH 5/8" STEEL 6" CENTERS BOTH WAYS

SET TOP OF VALVE BOX TO FINISHED GRADE & FLUSH OF CONCRETE COLLAR. "SEWER" ON TOP (PAINTED GREEN)

ADJUSTABLE CAST IRON VALVE BOX COVER AND ROUND LID

3" MAX.

MINIMUM DEPTH

8" PVC SLEEVE (USE WITH CAST IRON VALVE BOX ONLY)

12" OF #57 ROCK


ADJUSTABLE TRENCH ADAPTER ASSEMBLY, 2" SQ. WRENCH NUT AND UPPER GUIDE REQUIRED FOR MORE THAN 3 FT. DEPTH.

RESTRAINED JOINTS REQUIRED AT ALL VALVE LOCATIONS

RESILIENT PLUG VALVE (AWWA C-509) FOR ALL PIPE SIZES THRU 12" DIAMETER.

NOTE:

1. ROD OR BOLT TO TEE WHERE APPLICABLE.

2023-01-25

STANDARD CONSTRUCTION DETAIL  
SANITARY SEWER FORCE MAIN VALVE & VALVE BOX

FILE NAME:  
EW\_S27.DWG

DETAIL REF:  
S-27

REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25

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CIVIL ENGINEERING-SURVEYING-LANDSCAPE ARCHITECTURE

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CITY OF EDGEWATER  
STANDARD DETAILS

SPORTYS CAR WASH  
1829 S RIDGEWOOD AVENUE (US-1)  
CITY OF EDGEWATER

PROJECT No: 231001

DATE: APRIL 16, 2024

DESIGN BY: RWS

DRAWN BY: HMT

CHECKED BY: RWS

SCALE: 1" = 20'

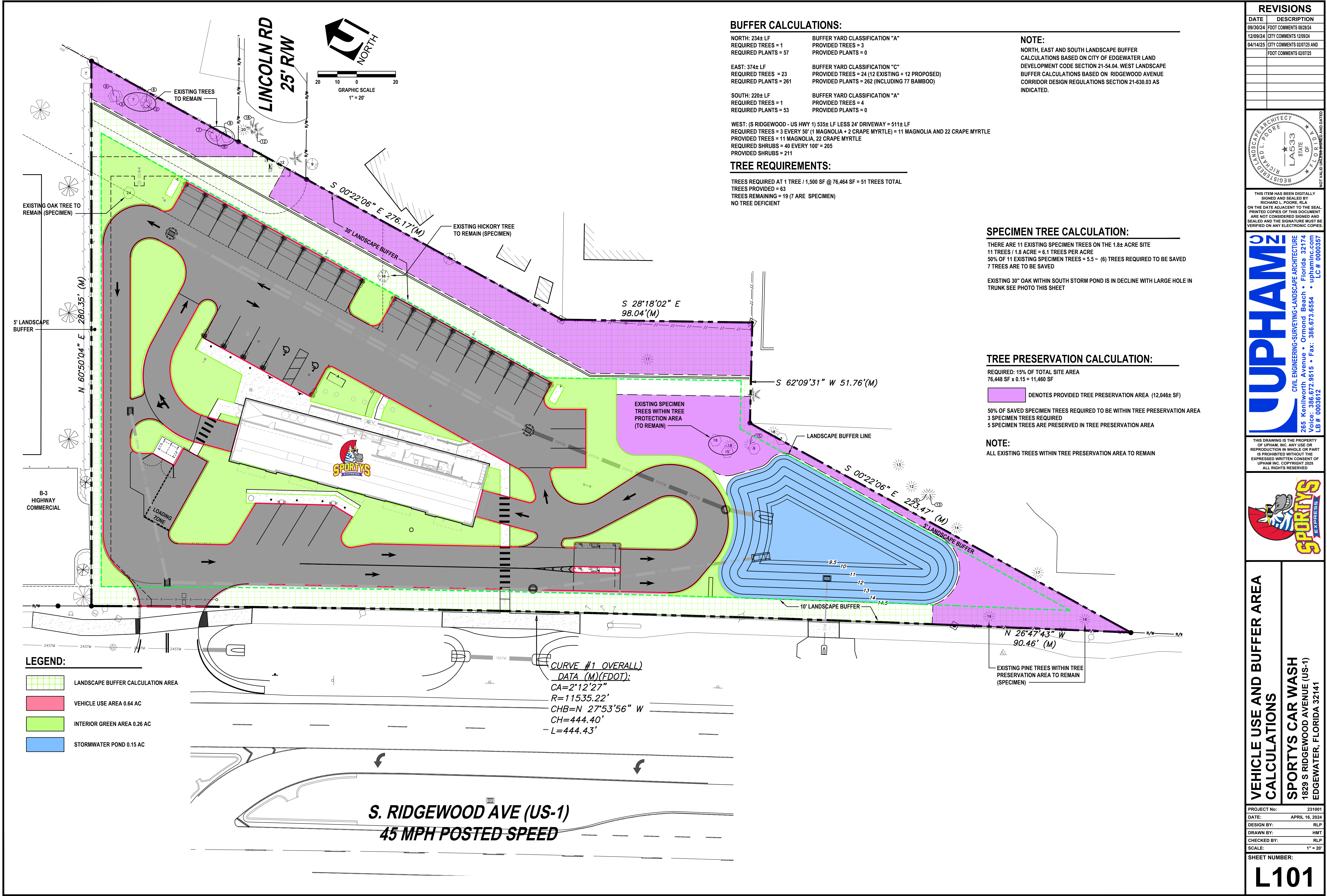
SHEET NUMBER:

C703









REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25

NOT VALID UNLESS SIGNED AND DATED

REGISTERED ARCHITECT

RICHARD L. POORE

LA533

STATE OF FLORIDA

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SPORTYS EXPRESS

VEHICLE USE AND BUFFER AREA CALCULATIONS

SPORTYS CAR WASH

1829 S RIDGEWOOD AVENUE (US-1)

EDGEWATER, FLORIDA 32141

PROJECT No: 231001

DATE: APRIL 16, 2024

DESIGN BY: RLP

DRAWN BY: HMT

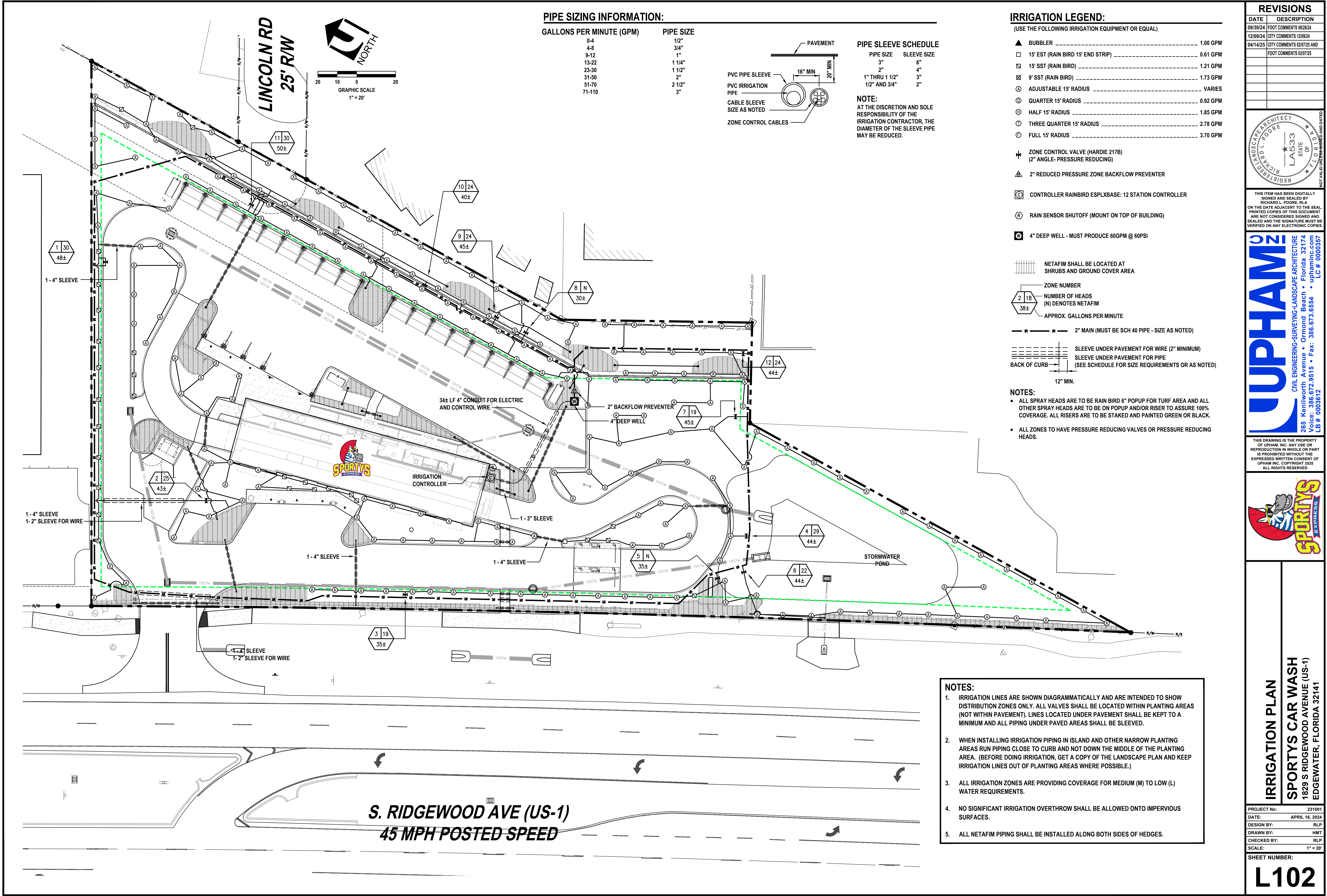
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SCALE: 1" = 20'

SHEET NUMBER:

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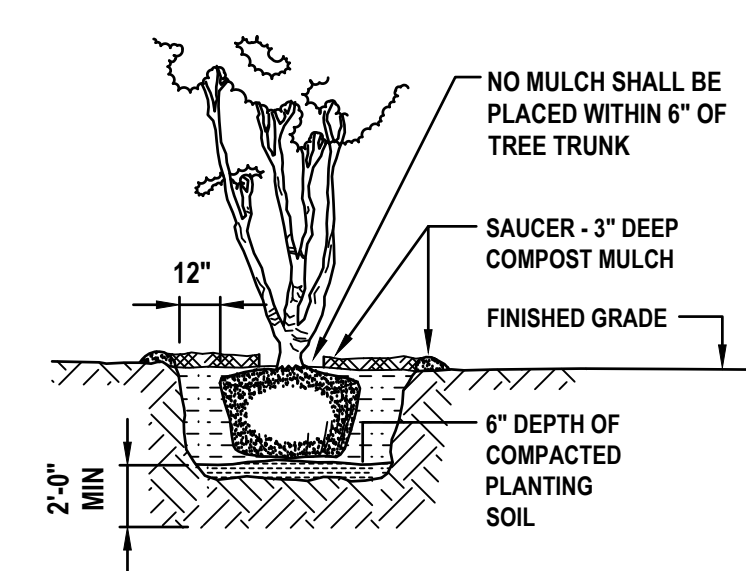




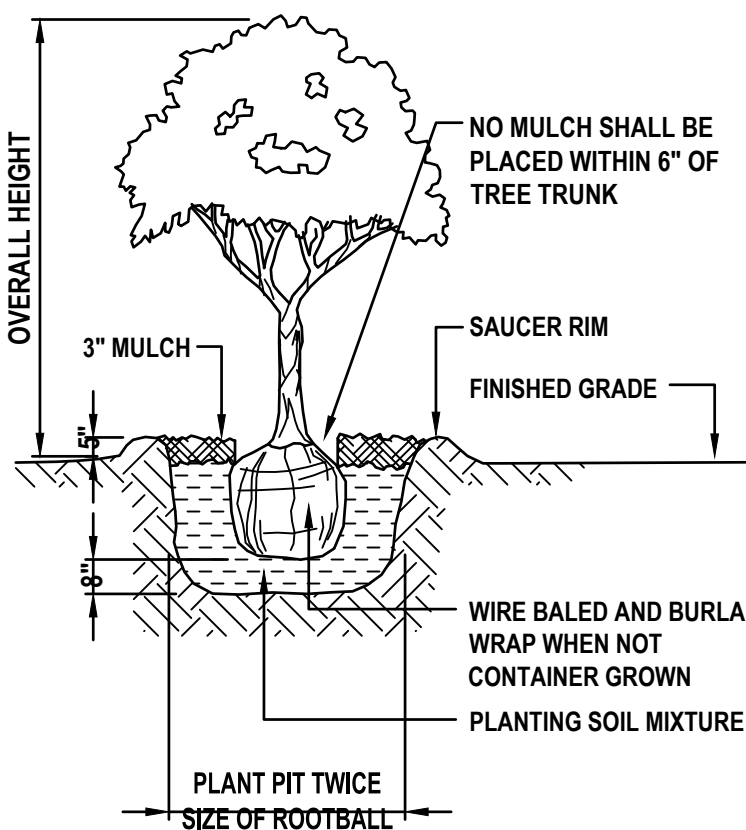
LANDSCAPE NOTES:

- ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA #1 OR BETTER AS DESCRIBED IN THE CURRENT "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, OR THEIR EQUAL AS DETERMINED BY THE LANDSCAPE ARCHITECT.
- MULCH SHALL BE PINE BARK, INSTALLED A MINIMUM OF 3" THICK AFTER SETTLEMENT, IN ALL PLANTING AREAS.
- SOD SPECIFIED AS ST. AUGUSTINE SHALL BE 95% WEED-FREE. SOD SPECIFIED AS BAHIA SHALL BE 75% WEED-FREE. ALL SOD SHALL BE INSTALLED WITH TIGHT JOINTS, ROLLED AND FERTILIZED.
- SEED, IF ANY, TO MEET SOUTHERN SEED CERTIFICATION ASSOCIATION.
- ALL DIMENSIONS SHALL BE FIELD-CHECKED BY THE LANDSCAPE CONTRACTOR PRIOR TO CONSTRUCTION, WITH ANY DISCREPANCIES REPORTED IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
- THE PLANT MATERIALS SCHEDULE IS PROVIDED FOR THE CONVENIENCE OF THE LANDSCAPE CONTRACTOR; SHOULD THERE BE ANY DISCREPANCY BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN WILL PREVAIL.
- ALL MATERIALS MUST BE AS SPECIFIED ON THE LANDSCAPE PLAN. IF MATERIALS OR LABOR DO NOT ADHERE TO THE SPECIFICATIONS, THEY WILL BE REJECTED AT NO ADDITIONAL COST TO THE OWNER.
- ALL PLANTING BEDS SHALL BE TREATED WITH 'ROUND-UP' AND 'RONSTAR'. USE AS DIRECTED BY MANUFACTURERS.
- NO SUBSTITUTIONS OR CHANGES OF ANY KIND WILL BE ALLOWED AT THE TIME OF BIDDING SO AS TO PROVIDE FOR FAIR COMPARISON.
- 100% AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED ACCORDING TO THE IRRIGATION PLAN AND SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND CONDITIONS PRIOR TO HIS COMMENCEMENT OF THE ANY WORK.
- ALL BUILDING MATERIALS AND LABOR SHALL CONFORM TO THE SOUTHERN BUILDING CODE AND ALSO TO ALL LOCAL CODES THAT HAVE JURISDICTION.
- ALL PERMIT AND VARIANCE APPLICATIONS SHALL BE MADE BY THE CONTRACTOR.
- PRIOR TO CONSTRUCTION OF PLANTING BEDS, ALL AREAS ARE TO HAVE SOIL TESTS CONDUCTED TO DETERMINE pH AND SOIL FERTILITY. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO AMEND THE SOIL TO MEET ADEQUATE FERTILITY AND pH FOR CORRESPONDING PLANT MATERIAL. ALL TEST RESULTS SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT.
- EQUIPMENT SHALL BE OPERATED IN A MANNER AS NOT TO INJURE OR DESTROY ANY TREES SHOWN TO REMAIN. CONTRACTOR SHALL NOT CAUSE OR ALLOW THE CLEANING OF EQUIPMENT OR MATERIAL WITHIN THE DRIP LINE OF ANY TREE OR GROUPS OF TREES TO BE RETAINED OR THOSE PROPOSED. NOR SHALL THE CONTRACTOR ALLOW THE DISPOSAL OF WASTE MATERIAL, SUCH AS PAINT, OIL SOLVENTS, ASPHALT, CONCRETE, MORTAR OR ANY OTHER MATERIAL HARMFUL TO THE LIFE OF A TREE WITHIN THE DRIP LINE

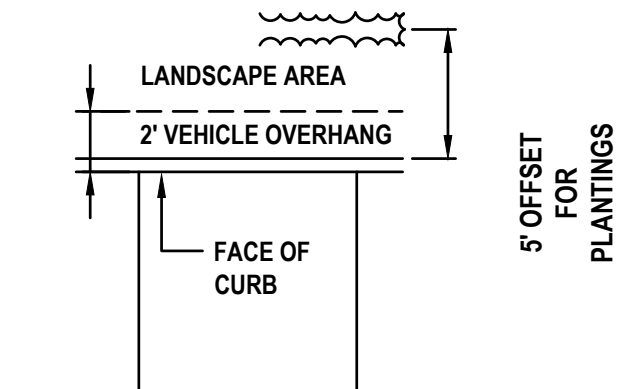
- ALL QUESTIONS CONCERNING THE PLAN AND/OR SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT (386) 672-9515.
- ALL SHADE TREES AND SINGLE TRUNK UNDERSTORY TREES SHALL BE STAKED USING TREE FROG STAKING SYSTEM FOR SINGLE STEM TREE AND ALL MULTI-TRUNK UNDERSTORY TREES SHALL BE STAKED WITH ARBORGUY MULTI-TRUNK SYSTEM.
- ANY CHANGE IN STAKING SYSTEM MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT BEFORE BEING INSTALLED.
- ALL UNIMPROVED AREA NOT OTHERWISE PLANTED OR MULCHED SHALL BE SODDED WITH BAHIA UNLESS OTHERWISE NOTED ON THE LANDSCAPE PLAN.
- PLANT MATERIAL SHALL BE CLEARLY IDENTIFIED AS FLORIDA #1 OR BETTER ON EITHER LABELS OR INVOICES.
- ALL PLANT MATERIAL SHALL BE GUARANTEED ONE YEAR AFTER ACCEPTANCE BY OWNER.
- ALL TREES IN SOD TO BE IN A (4) FOOT MINIMUM DIAMETER MULCHED RING UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- TREES SHALL BE PLANTED SO THAT THE TRUNK FLARE IS EXPOSED AND TOPMOST ROOT IN THE ROOTBALL ORIGINATING FROM THE TRUNK IS AT SOIL SURFACE OR WITHIN THE TOP INCH OF SOIL ON THE ROOTBALL.
- ALL SPECIFICATIONS MUST BE AS SPECIFIED OR GREATER.
- PLANT TREE SO THAT ROOTBALL IS 1"-2" ABOVE FINISH GRADE.
- REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASS, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS SHALL BE REMOVED AND A MINIMUM OF 3" OF CLEAN SAND WITH A PH 5.5-6.5 SHALL BE INSTALLED PRIOR TO ANY INSTALLATION OF PLANTS OR TREES.
- BALLED AND BURLAPPED STRAPPING WIRE, AND ANY SYNTHETIC MATERIAL SHALL BE REMOVED PRIOR TO FINAL INSPECTION. WIRE BASKETS SHOULD BE CUT AWAY FROM TOP ONE-THIRD OF ROOT BALL.
- NON-CANOPY TREES SHALL NOT BE PLANTED CLOSER THAN 10 FEET FROM OTHER TREES AND CANOPY TREES NO CLOSER THAN 20-30 FEET, DEPENDING ON SPECIES.
- A MULCH RING FOR ALL NEWLY PLANTED TREES SHALL BE PROVIDED AT LEAST FIVE (5) FEET IN DIAMETER AND NOT CLOSER THAN SIX (6) INCHES FROM THE TREE TRUNK.
- TREES SHALL HAVE A MINIMUM HEIGHT OF EIGHT (8) TO TEN (10) FEET AND TWO (2) INCHES OF CALIPER.
- SHRUB LINES ARE TO BE PLANTED AT THE REQUIRED MINIMUM HEIGHT, NOT BY CONTAINER SIZE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT SEED MIXTURE FOR THIS LOCATION



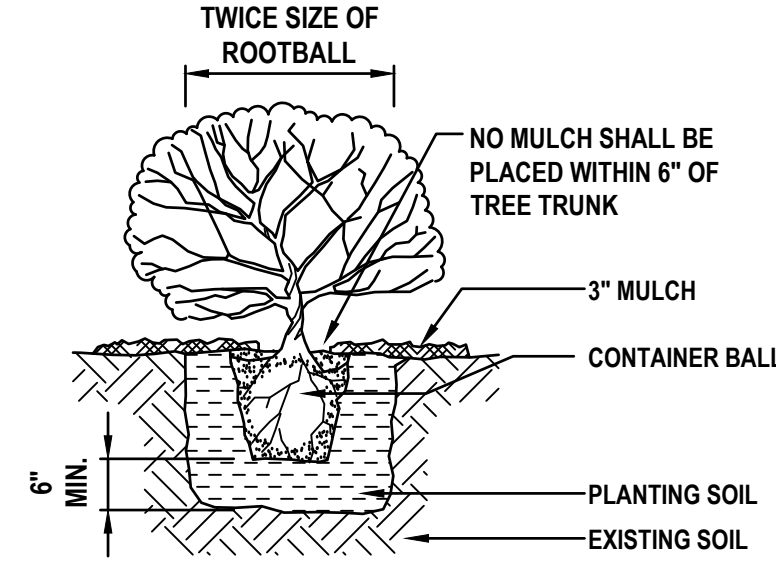
MULTI-TRUNK PLANTING DETAIL  
NOT TO SCALE



TREE PLANTING DETAIL  
NOT TO SCALE

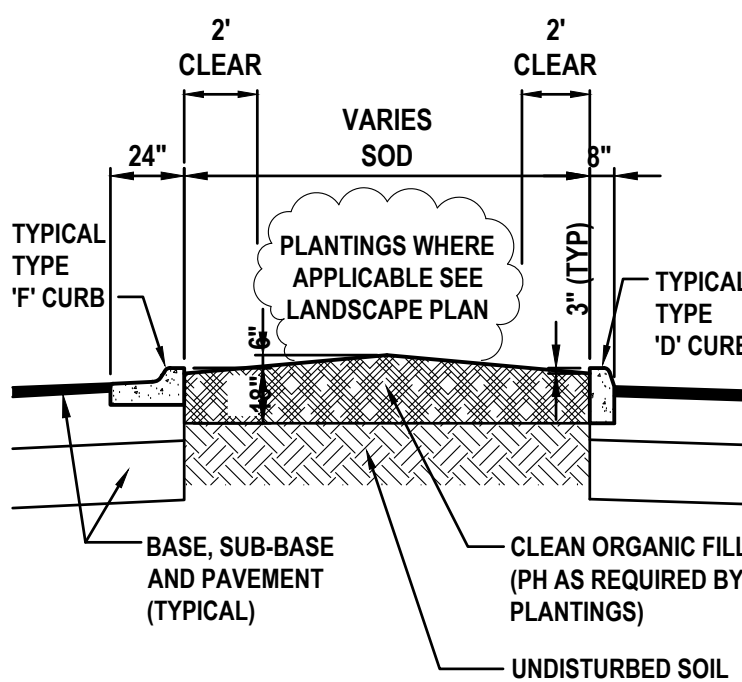


TYPICAL OVERHANG SPACE  
WITH HEDGE DETAIL  
NOT TO SCALE



SHRUB PLANTING DETAIL  
NOT TO SCALE

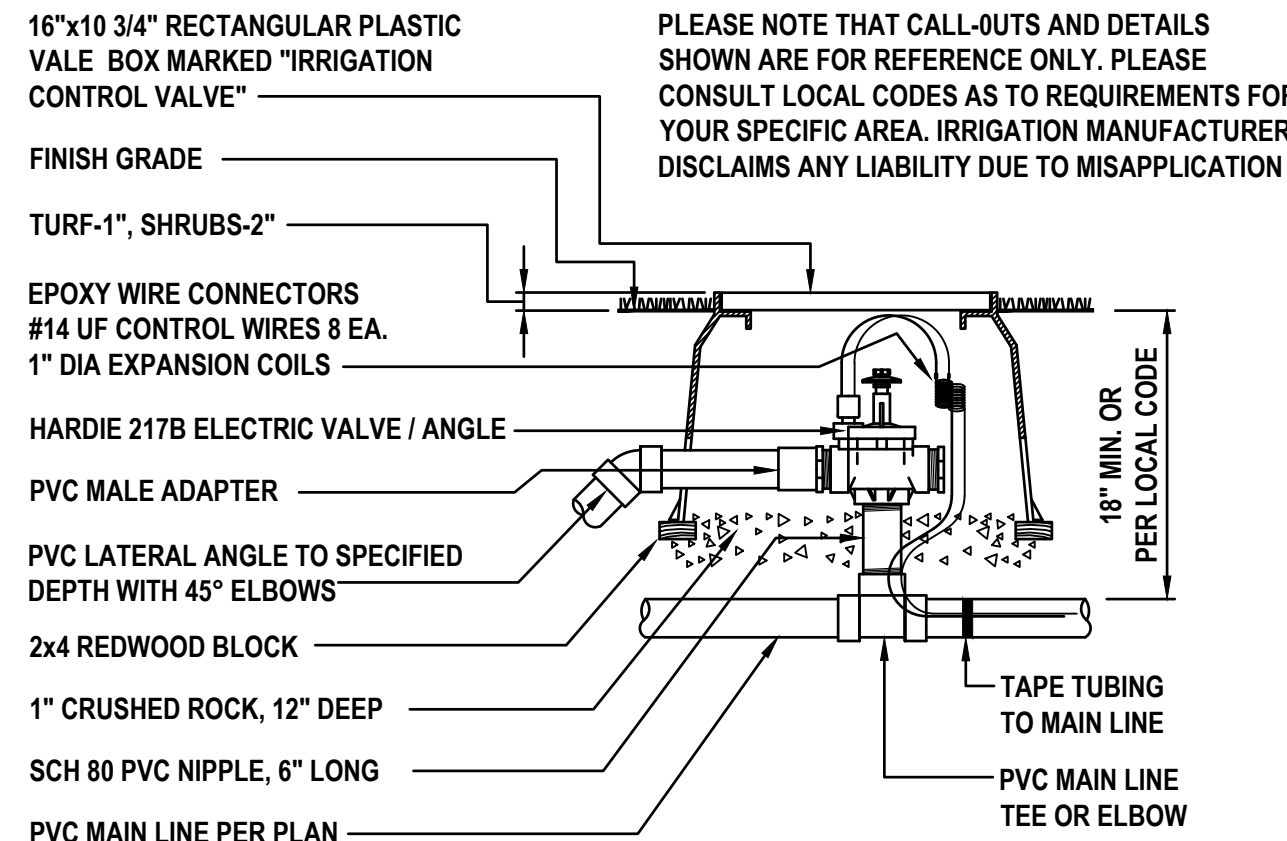
NOTE: WHERE MULCH IS USED IN LANDSCAPE ISLAND KEEP MULCH BELOW TOP OF CURBS



ISLAND PLANTING DETAIL  
NOT TO SCALE

IRRIGATION NOTES:

- THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL EXISTING UTILITIES AND CONDITIONS PRIOR TO ITS COMMENCEMENT OF THE IRRIGATION WORK.
- THE PLAN IS SCHEMATIC ONLY. THE CONTRACTOR SHALL INSTALL PIPING IN A MINIMUM NUMBER OF TRENCHES AND SHALL INSTALL PIPE IN A MINIMUM LENGTH.
- QUANTITIES FOR IRRIGATION MATERIALS ARE NOT GIVEN. THE CONTRACTOR SHALL DETERMINE THIS FROM THE PLAN.
- INSTALL SLEEVE PIPING WHERE SHOWN ON THE DRAWINGS AT THE PROPER DEPTH.
- ALL SLEEVE PIPE SHALL BE SCHEDULE 40 PVC PIPE INSTALLED A MINIMUM OF 20" BELOW FINISHED PAVING GRADES.
- ALL SLEEVES WHEN PLACED IN FIELD ARE TO BE LOCATED BY A METAL PIPE AT EACH END AND LOCATED FROM TWO STATIONARY POINTS BY TAPE MEASUREMENTS.
- ALL PIPE SHALL BE INSTALLED A MINIMUM OF 20" BELOW GRADE.
- ALL TRENCHING SHALL BE KEPT OUT OF THE DRIP LINE AREA OF ALL EXISTING TREES. USE RADIAL LINES OR TUNNELING WHEN NECESSARY TO ENCR OACH INTO THE DRIP LINE AREA OF TREES.
- LOCATE ALL VALVES AND OTHER IRRIGATION EQUIPMENT IN PLANT BED AREAS WITHIN THE PROJECT LIMITS FOR CONCEALMENT PURPOSES.
- RISERS ARE TO BE HIDDEN COMPLETELY IN SHRUBBERY OR PAINTED BLACK AND IN NO CASE BE HIGHER THAN THE SHRUBBERY INSTALLED.
- ALL PIPE EXPOSED ABOVE GRADE AND TO VIEW SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE OF THE NOTED SIZE.
- ALL VALVES SHALL BE INSTALLED IN METER TYPE SIZE BOXES EQUAL TO AMETEK POLY-IRON.
- IRRIGATION SHALL MEET ALL APPLICABLE CURRENT MUNICIPAL, COUNTY, STATE OR FEDERAL CODES, ORDINANCES AND REGULATIONS THAT HAVE JURISDICTION.
- ALL PIPE 1/2" TO 2 1/2" IN SIZE SHALL BE PRESSURE RATED 160 PVC (EXCEPT MAIN) AND SHALL.
- ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
- ALL SPRAY HEADS ARE TO BE A MINIMUM OF 6" POP-UP AND ALL HEADS IN PLANTING AREAS TO BE 12" POP-UP OR RISERS.
- ELECTRICAL TO CONTROLLER SHALL BE SUPPLIED BY ELECTRICAL CONTRACTOR (NOT IRRIGATION CONTRACTOR)



VALVE AND BOX DETAIL  
NOT TO SCALE

PHONE: (352) 735-7411  
EMAIL: info.treefrogep@gmail.com

NOTE: TREE STAKING IS ONLY FOR MEDIUM AND LARGE TREES

**Tree Frog Environmental Products®**  
(formerly Arborguy®)  
**BIOGRADABLE TREE GUYING DETAIL**

**Biodegradable Adjustable Guying Method Using a Tension Bar**  
The anchors for each kit are best installed using the Integrated Tool Assembly (ITA) from the manufacturer.

- Once the Biodegradable arrowhead anchor has been driven into the ground and set (secured), the guyline should be passed through Hole #1 on the tension bar, then wrapped around the tree trunk just above the lowest established branch. Then, the guyline should be passed through Hole #2 in the tension bar just below the first established branch. After pulling taut any slack, a stop knot is established immediately below Hole #2 in the guyline. (See Figure 1)
- The tension bar is then pulled downward until the tree is straight and the guyline is SNUG (NOT TIGHT). (See Figure 2)
- The tension bar is locked into place by tying the loose end of the guyline itself just above Hole #2. (See Figure 3)

This tensioning method allows the guylines to be readjusted, if necessary, in order to keep the guylines snug until the tree root system is established and the staking material is removed.

**Tree Frog® BIO20 SYSTEM**

**BIO20:**  
For up to 2" Caliper Trees  
(3) FROG ANCHOR™ Guyline 1/4" x 12' = 560 lb  
tensile Hemp/Manila rope  
(3) "Tool-Free" Tension Bars™  
(3) Biodegradable Arrowhead Anchors (4 3/4" x 4 1/2")

**Tree Frog® BIO40 SYSTEM**

**BIO40:**  
For up to 4" Caliper Trees  
(4) FROG ANCHOR™ Guyline 1/4" x 12' = 560 lb  
tensile Hemp/Manila rope  
(4) "Tool-Free" Tension Bars™  
(4) Biodegradable Arrowhead Anchors (4 3/4" x 4 1/2")

**Tree Frog Environmental Products®**  
(formerly Arborguy®)  
**PRO20/PRO40/PRO60/PRO80STAKING DETAIL**

**Adjustable Guying Method Using a Tension Bar**  
The anchors for each kit are best installed using the Integrated Tool Assembly (ITA) from the manufacturer.

- Once the arrowhead anchor has been driven into the ground and set (secured), the guyline should be passed through Hole #1 on the tension bar, then wrapped around the tree trunk just above the lowest established branch. Then, the guyline should be passed through Hole #2 in the tension bar just below the first established branch. After pulling taut any slack, a stop knot is established immediately below Hole #2 in the guyline. (See Figure 1)
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This tensioning method allows the guylines to be readjusted, if necessary, in order to keep the guylines snug until the tree root system is established and the staking material is removed.

\*Specify Anchor  
1. Biodegradable (soft or hard soil)  
2. Nylon (soft soil)  
3. Heavy Duty (hard soil)

**Tree Frog® PRO20 SYSTEM**

**PRO20:**  
For up to 2" Caliper Trees  
(3) ARBORGUY™ Guylines 3/4" x 12' = 600 lb  
test Black or Green, UV resistant, polypropylene strapping  
(3) "Tool-Free" Tension Bars™  
(3) Arrowhead \* Anchors (4" x 3-3/4")

**Tree Frog® PRO40 SYSTEM**

**PRO40:**  
For up to 4" Caliper Trees  
(4) ARBORGUY™ Guylines 1" x 12' = 600 lb test  
Black or Green, UV resistant, polypropylene strapping  
(3) "Tool-Free" Tension Bars™  
(3) Arrowhead \* Anchors (4 3/4" x 4 1/2")

**Tree Frog® PRO60 SYSTEM**

**PRO60:**  
For up to 6" Caliper Trees  
(3) ARBORGUY™ Guylines 1" x 15' = 2400 lb break strength  
polyester black strapping  
(3) "Tool-Free" Tension Bars™  
(3) Arrowhead \* Anchors (4 3/4" x 4 1/2")

**Tree Frog® PRO80 SYSTEM**

**PRO80:**  
For up to 8" Caliper Trees  
(4) ARBORGUY™ Guylines 1" x 15' = 2400 lb  
break strength black polyester strapping  
(4) Steel Cable leaders attached to anchors (optional)  
(4) "Tool-Free" Tension Bars™  
(4) Arrowhead \* Anchors (4 3/4" x 4 1/2")

FIGURE 1

FIGURE 2

FIGURE 3

**Tree Frog Environmental Products®**  
(formerly Arborguy®)  
**PRO20/PRO40/PRO60/PRO80STAKING DETAIL**

**Adjustable Guying Method Using a Tension Bar**  
The anchors for each kit are best installed using the Integrated Tool Assembly (ITA) from the manufacturer.

- Once the arrowhead anchor has been driven into the ground and set (secured), the guyline should be passed through Hole #1 on the tension bar, then wrapped around the tree trunk just above the lowest established branch. Then, the guyline should be passed through Hole #2 in the tension bar just below the first established branch. After pulling taut any slack, a stop knot is established immediately below Hole #2 in the guyline. (See Figure 1)
- The tension bar is then pulled downward until the tree is straight and the guyline is SNUG (NOT TIGHT). (See Figure 2)
- The tension bar is locked into place by tying the loose end of the guyline itself just above Hole #2. (See Figure 3)

This tensioning method allows the guylines to be readjusted, if necessary, in order to keep the guylines snug until the tree root system is established and the staking material is removed.

\*Specify Anchor  
1. Biodegradable (soft or hard soil)  
2. Nylon (soft soil)  
3. Heavy Duty (hard soil)

**Tree Frog® PRO20 SYSTEM**

**PRO20:**  
For up to 2" Caliper Trees  
(3) ARBORGUY™ Guylines 3/4" x 12' = 600 lb  
test Black or Green, UV resistant, polypropylene strapping  
(3) "Tool-Free" Tension Bars™  
(3) Arrowhead \* Anchors (4" x 3-3/4")

**Tree Frog® PRO40 SYSTEM**

**PRO40:**  
For up to 4" Caliper Trees  
(4) ARBORGUY™ Guylines 1" x 12' = 600 lb test  
Black or Green, UV resistant, polypropylene strapping  
(3) "Tool-Free" Tension Bars™  
(3) Arrowhead \* Anchors (4 3/4" x 4 1/2")

**Tree Frog® PRO60 SYSTEM**

**PRO60:**  
For up to 6" Caliper Trees  
(3) ARBORGUY™ Guylines 1" x 15' = 2400 lb break strength  
polyester black strapping  
(3) "Tool-Free" Tension Bars™  
(3) Arrowhead \* Anchors (4 3/4" x 4 1/2")

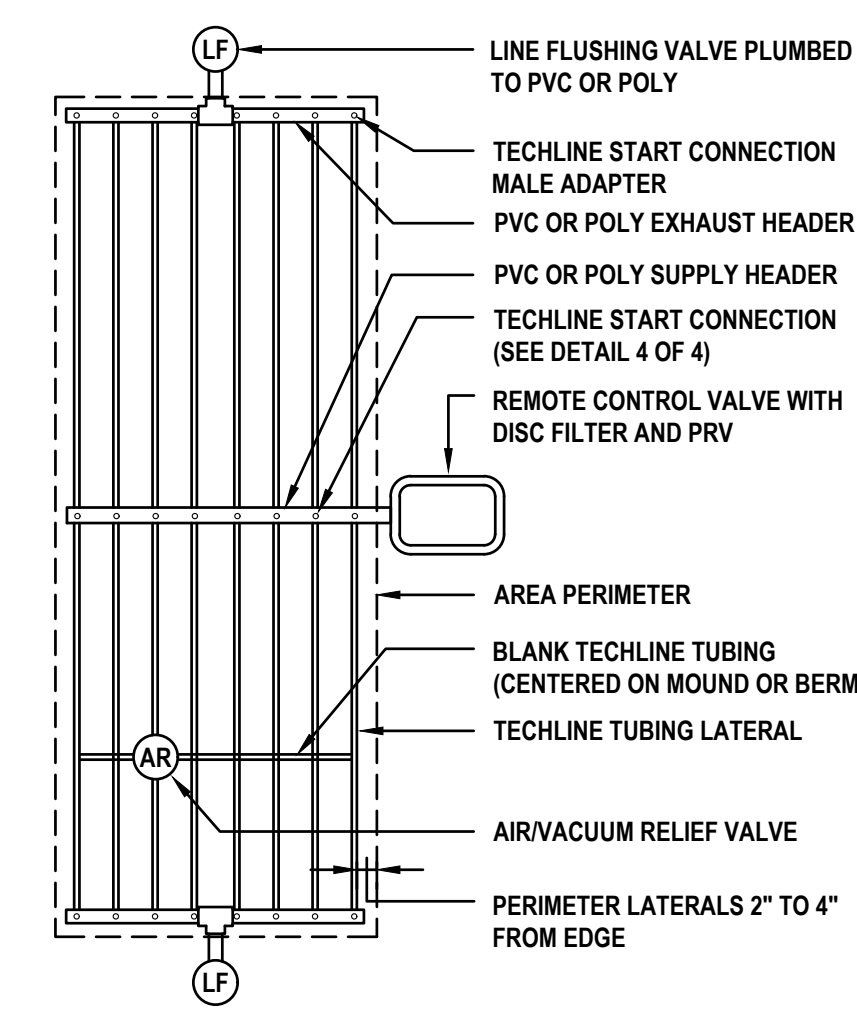
**Tree Frog® PRO80 SYSTEM**

**PRO80:**  
For up to 8" Caliper Trees  
(4) ARBORGUY™ Guylines 1" x 15' = 2400 lb  
break strength black polyester strapping  
(4) Steel Cable leaders attached to anchors (optional)  
(4) "Tool-Free" Tension Bars™  
(4) Arrowhead \* Anchors (4 3/4" x 4 1/2")

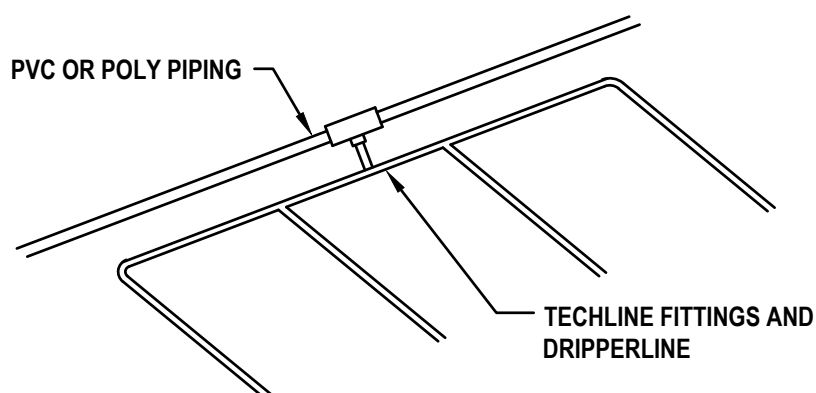
FIGURE 1

FIGURE 2

FIGURE 3

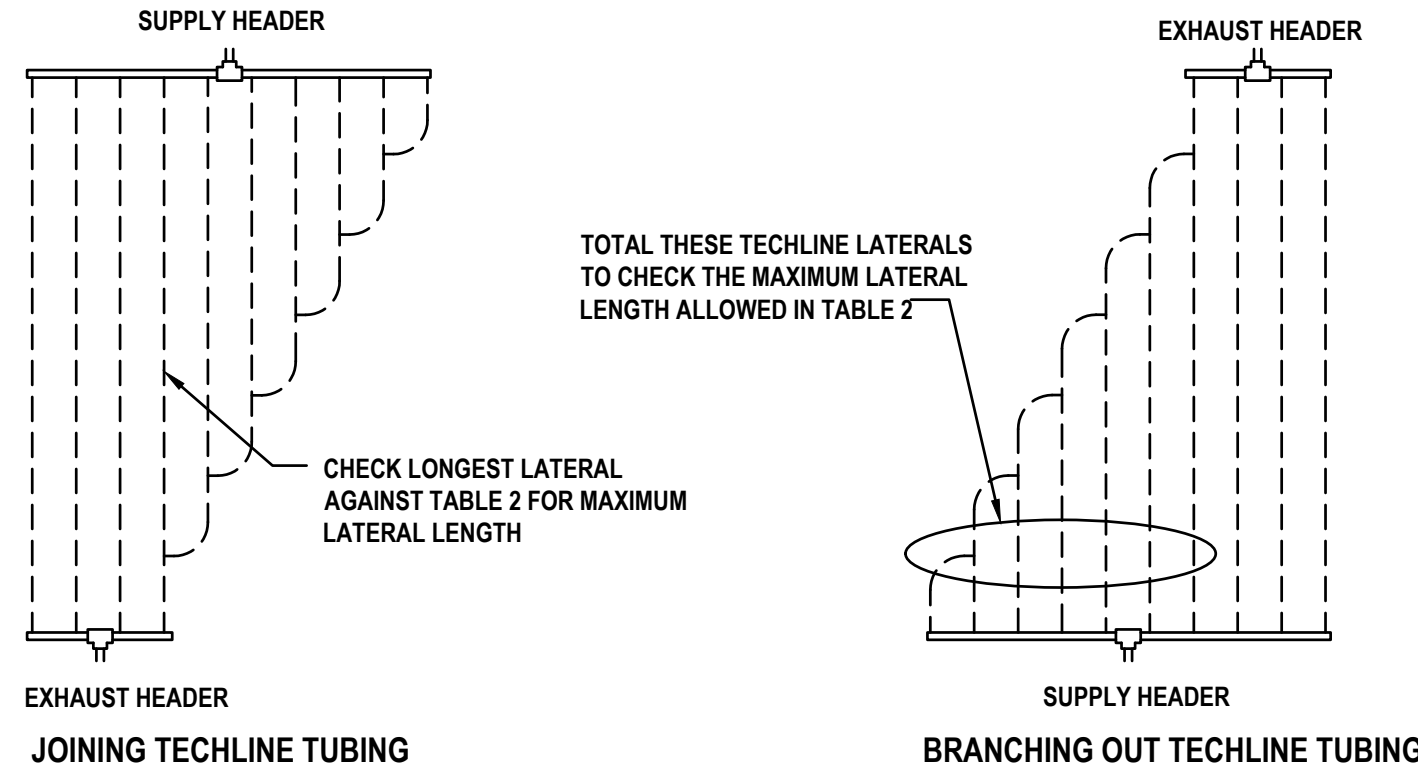


TECHLINE CENTER FEED LAYOUT



CREATING SUB-HEADERS TO REDUCE GLUE/SADDLE JOINTS

NETAFIM DETAIL  
NOT TO SCALE



CENTER FEED LAYOUTS:

- WHERE LAYOUT FLEXIBILITY EXISTS, IT IS RECOMMENDED THAT CENTER FEED LAYOUTS BE USED. THIS ALLOWS FOR THE MOST EVEN FLOW OF WATER THROUGH OUT THE ZONE.
- CENTER FEED LAYOUTS ALSO ALLOW YOU TO MAXIMIZE THE LENGTHS OF TECHLINE THAT CAN BE RUN.

OTHER PIPING LAYOUTS:

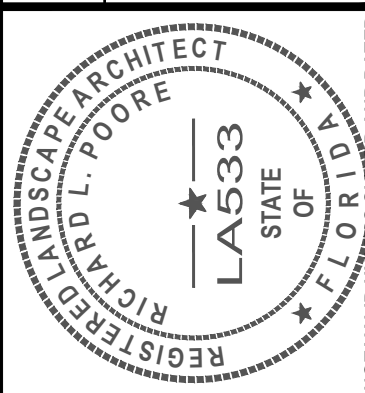
- WHEN BRANCHING OUT, OR JOINING TECHLINE, ONE OF TWO RULES APPLY. RULE 1 - WHEN BRANCHING OUT TECHLINE FROM THE SUPPLY HEADER, TOTAL ALL "BRANCHED OUT" DRIPPERLINE AND CHECK THE SUM AGAINST THE MAXIMUM LATERAL LENGTH IN TABLE 2. RULE 2 - WHEN JOINING DRIPPERLINE LATERALS FROM THE SUPPLY HEADER, CHECK ONLY THE LONGEST LATERAL AGAINST THE MAXIMUM ALLOWABLE IN TABLE 2.
- TO REDUCE THE NUMBER OF GLUE JOINTS, SADDLES OR INSERT FITTINGS IN A HEADER, TRANSITION TO TECHLINE AND TECHLINE FITTINGS TO MAKE UP SUB-HEADERS, MAKING SURE TO FOLLOW THE GUIDELINE OF A MAXIMUM OF 0.5 GPM IN THE "SUB-HEADER" ZONE.

**ZONE WATER REQUIREMENTS:**  
ONCE YOU HAVE LAID OUT THE TECHLINE, YOU NEED TO IDENTIFY HOW MANY DRIPPERS THERE ARE, AND THEIR TOTAL OUTPUT. THIS WILL HELP YOU DETERMINE MAINLINE, SUBMAIN AND SUPPLY/EXHAUST HEADER SIZING, VALVE, FILTER, AND REGULATOR SELECTION.

TABLE 2: MAXIMUM LENGTH OF A SINGLE LATERAL (FEET)												
INLET PRESSURE	12"			18"			24"			EMITTER FLOW (GPH)	20 psi	25 psi
	0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6			
20 psi	444	326	256	194	631	463	365	277	465	353		
25 psi	496	364	287	217	706	518	409	310	519	395		
35 psi	578	423	333	253	821	604	476	361	605	461		
45 psi	641	470	370	281	913	670	529	401	673	513		

REVISIONS

DATE	DESCRIPTION
09/30/24	FDOT COMMENTS 08/28/24
12/09/24	CITY COMMENTS 12/09/24
04/14/25	CITY COMMENTS 02/07/25 AND FDOT COMMENTS 02/07/25



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**LANDSCAPE, IRRIGATION, DETAILS AND NOTES**

**SPORTYS CAR WASH**  
1829 S RIDGEWOOD AVENUE (US-1)  
EDGEWATER, FLORIDA 32141

PROJECT No: 231001  
DATE: APRIL 16, 2024  
DESIGN BY: RLP  
DRAWN BY: HMT  
CHECKED BY: RLP  
SCALE: 1" = 20'  
SHEET NUMBER:

**L103**