

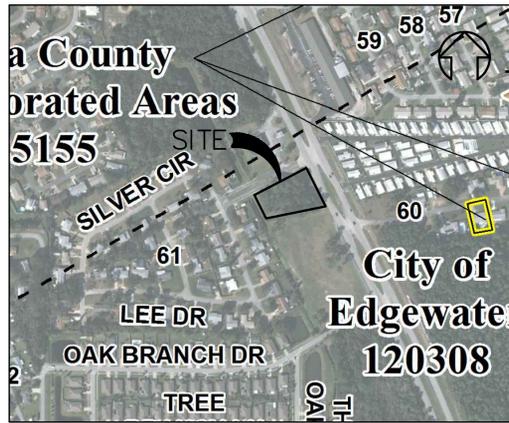
MIKE'S TIRE WAREHOUSE

FINAL SITE PLAN

EDGEWATER, FLORIDA



FUTURE LAND USE
LAND USE: COMMERCIAL

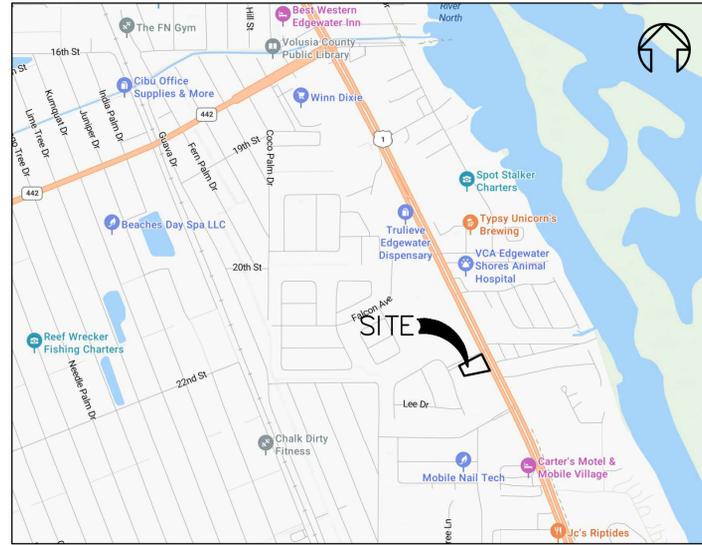


FEMA FLOOD MAP
ZONE X
FEMA FLOOD MAP 12127C0685J
DATED SEPTEMBER 29, 2017



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
4	Astataula fine sand, 0 to 8 percent slopes	0.3	34.0%
8	Bassinger fine sand, frequently ponded, 0 to 1 percent slopes	0.3	30.1%
29	Immokalee sand	0.3	35.9%
Totals for Area of Interest		0.9	100.0%

SOILS MAP & KEY



LOCATION MAP



ZONING MAP
ZONING: B-3 - HIGHWAY COMMERCIAL

GENERAL NOTES

- TAX PARCEL NUMBER: 8402-00-00-0424
- EXISTING ZONING: B-3 - HIGHWAY COMMERCIAL
- PROPERTY ADDRESS: 2350 S RIDGEWOOD AVE, EDGEWATER FL., 32132
- PROPOSED ZONING: B-3 - HIGHWAY COMMERCIAL
- BOUNDARY, AND TOPOGRAPHY SURVEY PREPARED BY: BERRY JOE PAYNE SURVEYOR, INC. DATED 05-31-2024.
- LOCATIONS OF EXISTING UTILITIES ARE SHOWN BASED ON AVAILABLE INFORMATION. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND TO DETERMINE IF OTHER UTILITIES WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK AND TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION (I.E. SHEETING, DE-WATERING, ETC.). CONTRACTOR TO NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES OR CONFLICTS.
- THERMOPLASTIC STRIPING AND TRAFFIC CONTROL SIGNAGE TO MEET FDOT AND CITY OF EDGEWATER SPECIFICATIONS.
- TRAFFIC CONTROL SIGNS TO BE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS. ALL STOP SIGNS, SPEED LIMIT AND STREET SIGNS REQUIRED TO BE PROVIDED BY DEVELOPER TO CITY OF EDGEWATER SPECIFICATIONS.
- ALL TRAFFIC CONTROL SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES USING 3M BRAND "SCOTCHLIGHT" SHEETING (ENGINEER GRADE) ON MINIMUM 0.080 GAUGE 5052-H38 ALUMINUM BLANKS. ALL STOP SIGNS SHALL BE HIGH INTENSITY 30" OCTAGON INSTALLED ON, 3" x 12", ROUND ALUMINUM POSTS. "U" CHANNEL POSTS MAY BE USED FOR ALL SIGNS SMALLER THAN 36" x 48". ALL WARNING SIGNS SHALL BE 30" x 30".
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND/OR LICENSES TO COMMENCE CONSTRUCTION.
- ALL CONCRETE SHALL DEVELOP A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF PLANS, SPECIFICATIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
- NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ALL CONSTRUCTION IN THE FDOT RIGHT OF WAY SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS INDEXES, THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.
- ALL AFFECTED SIDEWALKS, RAMPS, AND CROSSWALKS, WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.

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SHEET NO.	DESCRIPTION
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4	SITE PLAN
5	CIVIL PLAN
6	UTILITY PLAN
7	LANDSCAPE PLAN
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9	IRRIGATION PLAN
10	IRRIGATION DETAILS
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15-16	WATER SYSTEM DETAILS
17-18	SANITARY SEWER DETAILS
19	LIFT STATION DETAILS
A-2.0	PROPOSED FLOOR PLAN
A-3.0	PROPOSED ELEVATIONS - EAST & WEST
A-3.1	PROPOSED ELEVATIONS - NORTH & SOUTH

GENERAL INFORMATION

PROJECT NAME:
MIKE'S TIRE WAREHOUSE

OWNER:
MOHAMAD HARB
785 ASPEN DRIVE
SOUTH DAYTONA, FLORIDA 32119
(386) 882-3237
mikeharb961@gmail.com

ENGINEER/LANDSCAPE ARCHITECT:

PARKER MYNCHENBERG & ASSOCIATES, INC.
STEVEN R. BUSWELL P.E. #53985
STEVEN R. BUSWELL R.L.A. #6667011
KEVIN A. LEE P.E. #71501
TANNER J. BANKS P.E. #102523
CERTIFICATE OF AUTHORIZATION NUMBER: 00003910
1729 RIDGEWOOD AVENUE
HOLLY HILL, FLORIDA 32117
(386) 677-6891 FAX (386) 677-2114
EMAILS: info@parkermynchenberg.com

LAND USE TABULATION

SITE AREA: = 39,951 SF = 0.917 AC.

IMPERVIOUS AREA CALCULATIONS:

PROPOSED BUILDING..... 4,021 SF
PROPOSED CONCRETE/PAVEMENT.....15,323 SF
TOTAL PROPOSED IMPERVIOUS AREA..... 19,344 SF = 48.42%

TOTAL IMPERVIOUS AREA..... 19,344 SF = 48.42%
LANDSCAPE AREA.....20,607 SF = 51.58%
OPEN SPACE.....20,607 SF = 51.58%

PARKING CALCULATION:

PARKING REQUIRED:
3 SPACES / SERVICE BAY
PLUS 1 SPACE / 200 SF NON SERVICE BAY AREA

5 SERVICE BAYS X 3 SPACES / SERVICE BAY = 15 SPACES
800 SF X 1 SPACE / 200 SF = 4 SPACES
TOTAL SPACES REQUIRED = 19 SPACES

PARKING PROVIDED:
STANDARD.....19 SPACES
HANDICAPPED.....1 SPACE
TOTAL.....20 SPACES

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MIKE'S TIRE WAREHOUSE
EDGEWATER * FLORIDA

COVER SHEET

1
SHEET NO.

File No. 25-22

Drawn By: MRB

Date: 04/29/25

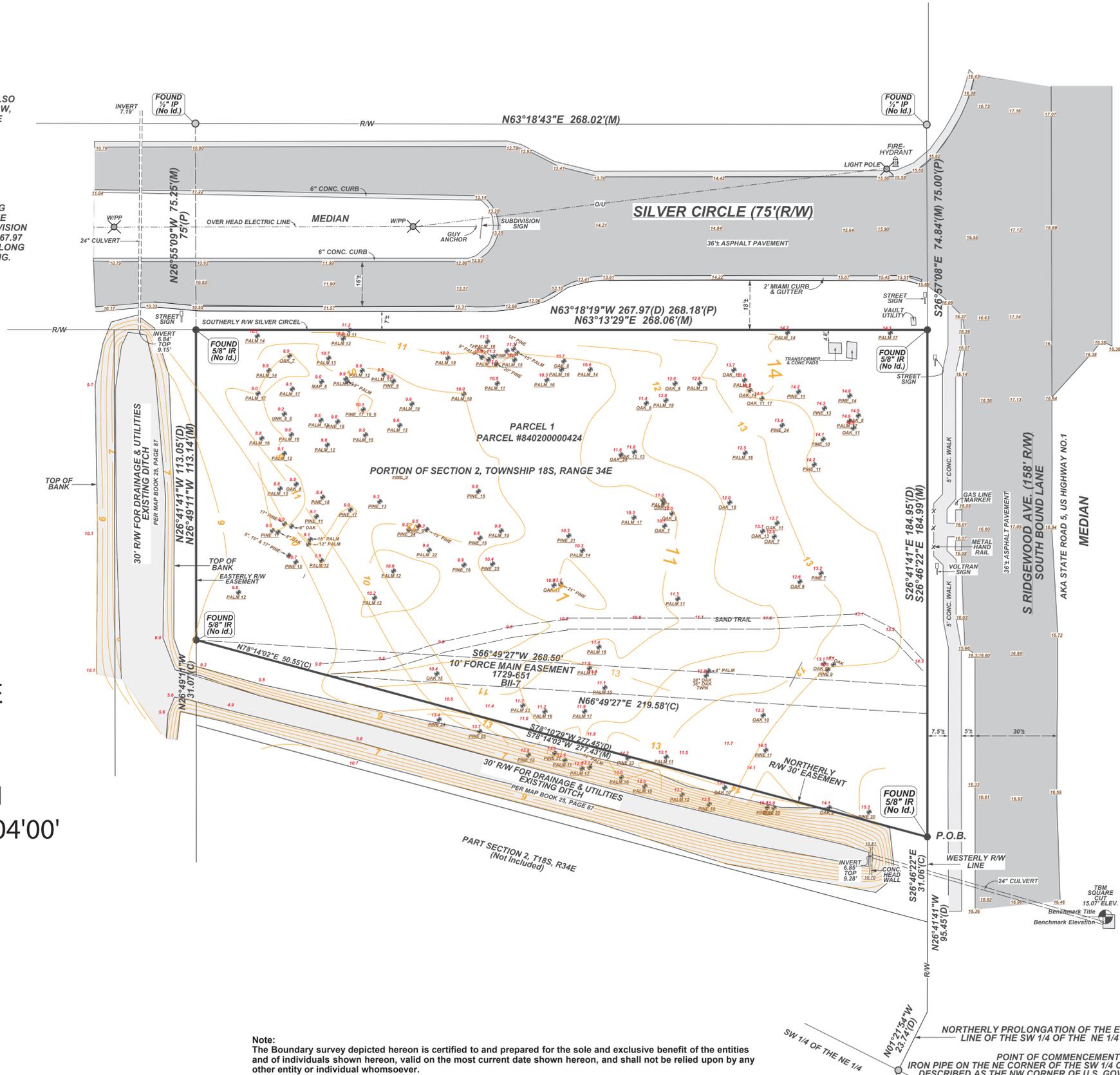
SCALE: NONE

SEAL

BOUNDARY SURVEY-VOLUSIA COUNTY-FLORIDA

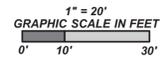
LEGAL DESCRIPTION: PORTION OF SECTION 2, TOWNSHIP 18S, RANGE 34E, VOLUSIA COUNTY, FLORIDA, DESCRIBED AS FOLLOWS: COMMENCE AT AN IRON PIPE ON THE NE CORNER OF THE SW 1/4 OF THE NE 1/4 (ALSO DESCRIBED AS THE NW CORNER OF U.S. GOVERNMENT LOT 7) THENCE N 00°21'54" W, ALONG THE NORTHERLY PROLONGATION OF THE EAST LINE OF THE SW 1/4 OF THE NE 1/4 THENCE, A DISTANCE OF 23.74 FEET TO THE WESTERLY R/W LINE OF U.S. HIGHWAY NO.1, A 158 FOOT R/W AS NOW LAID OUT, THENCE N 26°41'41" W, ALONG SAID WESTERLY R/W LINE, A DISTANCE OF 95.45 FEET TO THE NORTHERLY R/W OF A 30 FOOT R/W FOR DRAINAGE AND UTILITIES SHOWN ON THE PLAT OF SILVER RIDGE SUBDIVISION UNIT 1, AS RECORDED IN MAP BOOK 25, PAGE 87, PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA, FOR THE POINT OF BEGINNING THENCE S 78°10'29" W, ALONG SAID NORTHERLY R/W LINE, A DISTANCE OF 277.45 FEET TO THE EASTERLY R/W LINE OF A 30 FOOT R/W FOR DRAINAGE AND UTILITIES SHOWN ON SAID PLAT OF SILVER RIDGE SUBDIVISION UNIT 1, THENCE N 26°41'41" W, ALONG SAID EASTERLY R/W LINE A DISTANCE OF 113.05 FEET TO THE SOUTHERLY R/W LINE OF SILVER CIRCLE, A 75 FOOT R/W SHOWN ON SAID PLAT OF SILVER RIDGE SUBDIVISION UNIT 1, THENCE N 63°18'19" E, ALONG SAID SOUTHERLY R/W LINE A DISTANCE OF 267.97 FEET TO THE WESTERLY R/W LINE OF U.S. HIGHWAY NO 1, THENCE S 26°41'41" E, ALONG SAID WESTERLY R/W LINE, A DISTANCE OF 184.95 FEET TO THE POINT OF BEGINNING.

NOTE: ELEVATIONS ARE NAVD 88 AND REFER TO BENCHMARK AK6903 VOL 3 EL15.72



SILVER RIDGE SUBDIVISION UNIT 1 PB 25, PG 87 (Not Included)

BERRY JOE PAYNE Digitally signed by BERRY JOE PAYNE Date: 2024.05.31 14:43:43 -04'00'



Note: The boundary survey depicted hereon is certified to and prepared for the sole and exclusive benefit of the entities and of individuals shown hereon, valid on the most current date shown hereon, and shall not be relied upon by any other entity or individual whomsoever.
THE SURVEY DEPICTED HEREON IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A LICENSED FLORIDA SURVEYOR AND MAPPER

SURVEYOR'S NOTES: 1) NO INSTRUMENTS OF RECORD DISPLAYING EASEMENTS, RIGHT-OF-WAYS AND OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT WHERE SHOWN. 2) THE SURVEY DEPICTED HEREON IS SUBJECT TO ANY ADDITIONAL RECORDS THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. 3) NO UNDERGROUND INSTALLATIONS, CONCRETE FOOTERS, AND OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT WHERE SHOWN. 4) THE TERM CERTIFIED IS THE PROFESSIONAL OPINION OF THIS SURVEYOR AND DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY EITHER EXPRESSED OR IMPLIED. 5) ADJOINING PROPERTY DESCRIPTIONS WERE NOT FURNISHED TO THIS SURVEYOR EXCEPT WHERE SHOWN. 6) THIS SURVEY IS SUBJECT TO ANY FACTS DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH. THIS SURVEY IS CERTIFIED BASED ON THE SURVEY DATE AND NOT ON THE DATE OF SIGNATURE. 7) UTILITY EQUIPMENT OR MACHINERY BOTH ABOVE AND BELOW GROUND NOT LOCATED UNLESS SHOWN. 8) FENCES PHYSICAL RELATION TO PROPERTY LINES AND OR OTHER FEATURES EXAGGERATED FOR CLARITY. 9) THE PROPERTY DEPICTED IN THIS SURVEY IS SUBJECT TO ANY RESTRICTIONS, RESERVATIONS, LIMITATIONS, EASEMENTS AND RIGHT OF WAYS, WHETHER RECORDED OR NOT. 10) IF LOCATION OF EASEMENTS OR RIGHT-OF-WAY OF RECORD, OTHER THAN THOSE ON RECORD PLATS, IS REQUIRED, THIS INFORMATION MUST BE FURNISHED TO THE SURVEYOR AND MAPPER, PER FLORIDA STATUTES RULE 61G17-7.003(1)(a). 11) THIS SURVEYOR OR FIRM DOES NOT ASSUME RESPONSIBILITY AND SHALL NOT BE LIABLE FOR CLAIMS ARISING FROM ERRONEOUS OR INCORRECT INFORMATION FURNISHED BY THE OWNER, LENDER, OR OWNERS CONTRACTORS OR OTHERS, WHICH IS USED TO FORMULATE THIS SURVEYOR'S OPINION. THIS SURVEYOR HAS NOT BEEN CONTRACTED TO PERFORM ANY TITLE SEARCH OF PUBLIC RECORDS AND HAS NOT DONE SO. ONLY VISIBLE EVIDENCE OF POSSIBLE EASEMENTS WERE SHOWN UNLESS PROVIDED BY CLIENT OR REPRESENTATIVES OF CLIENT, OR UNLESS SHOWN ON THE PLAT OF RECORD.

SURVEYOR'S NOTES: 1) BEARINGS AND DISTANCES REFER TO DEED AND PLAT OF RECORD. 2) BASIS OF BEARINGS REFER TO THE STATE PLANE COORDINATES. 3) DISTANCES SHOWN HEREON ARE IN FEET AND DECIMALS THEREOF. 4) THE CERTIFICATION OF THIS SURVEY REFERS TO THE FIELD SURVEY DATE. 5) LEGAL DESCRIPTION PROVIDED BY THE CLIENT.

CHECKED BY: BJP DRAWN BY: BJP FILED IN BOOK COMPUTER PARTY CHIEF: AJ SURVEY DATE: APRIL 21, 2024. SHEET 1 OF 1 FORESIGHT ALL VECTOR WORKS FILE. 2350 SOUTH RIDGEWOOD AVE EDGEWATER, FLORIDA PORTION OF SECTION 2, TOWNSHIP 18S, RANGE 34E TOPO TREE SURVEY TYPE: BOUNDARY, TOPOGRAPHICAL AND SPECIFIC PURPOSE FLOOD ZONE CLASSIFICATION AND TREE SURVEY.

SUBJECT AREA LIES IN FLOOD ZONES "X" (AREAS OF MINIMAL FLOODING) PER FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM FLOOD ZONE DETERMINED BY SCALING FROM FLOOD INSURANCE RATE MAPS COMMUNITY # 120308, PANEL # SUFFIX J, DATED SEPT. 29, 2017. MAP NUMBER 12127C0685

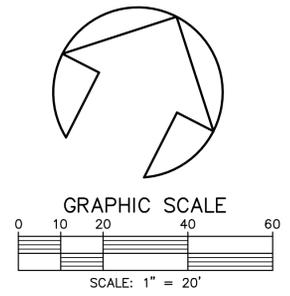
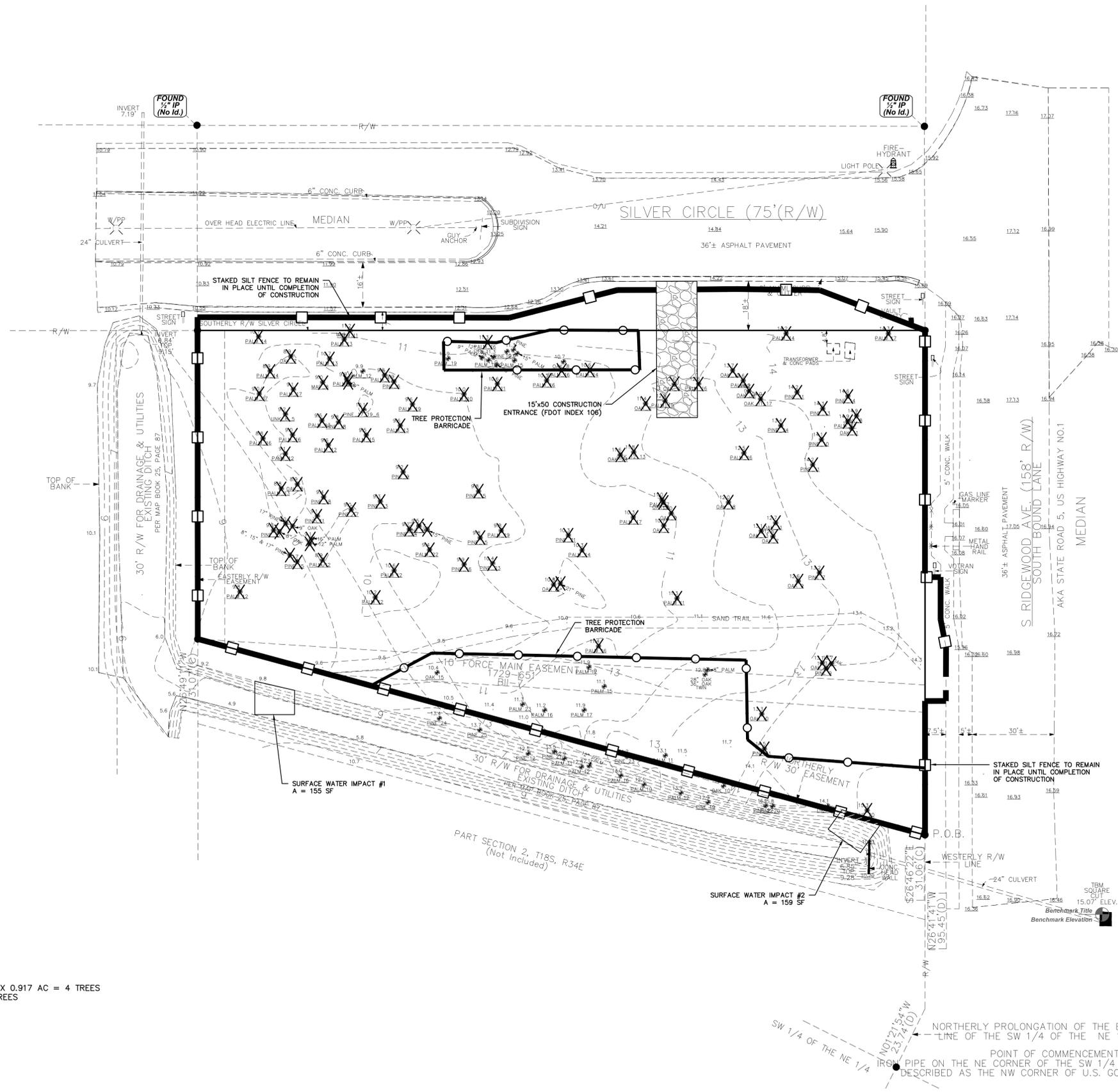


PREPARED BY: BERRY JOE PAYNE SURVEYOR, INC. LB #7418 PROFESSIONAL SURVEYOR AND MAPPER LS #5846 115 Wildwood Ave., Edgewater, Florida 32132 Phone (386) 409-5388 EMAIL payneberryjoe@gmail.com

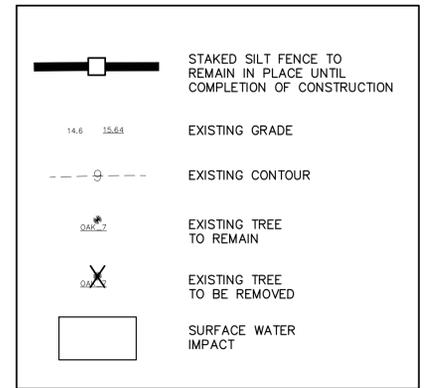
I THE UNDERSIGNED HEREBY CERTIFY THIS PLAT TO BE A TRUE REPRESENTATION OF A FIELD SURVEY MADE UNDER MY SUPERVISION AND MEETS OR EXCEEDS THE MINIMUM TECHNICAL STANDARDS FOR SURVEYING IN THE STATE OF FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027, FLORIDA STATUTES SUBJECT TO ALL NOTES HEREON. BERRY JOE PAYNE LS# 5846 DATE SIGNED

This Plat is Certified To: 1) MOHAMAD K HARB

LEGEND AND ABBREVIATIONS DENOTES FENCE -X-X-X- WM - WATER METER AC - AIR CONDITIONER FH - FIRE HYDRANT CATV - CABLE TELEVISION FND - FOUND P1 - POINT OF INTERSECTION EF - END OF FENCE CONC - CONCRETE RES - RESIDENCE CW - CONCRETE WALK CB - CONCRETE BLOCK CM - CONCRETE MONUMENT CH - CHORD LIP - LIGHT POLE * - NOT SUBSTANTIATED BY FIELD MEASUREMENT (M) - MEASURED (P) - DEED (D) PRM - PERMANENT REFERENCE MONUMENT CL - CENTERLINE O/U - OVERHEAD UTILITY P/P - POWER POLE FC - FENCE CORNER CLF - CHAIN LINK FENCE IP - IRON PIPE L - LENGTH R - RADIAL (C) - CALCULATED P/L - PROPERTY LINE R/W - RIGHT-OF-WAY ID - IDENTIFICATION FR - FRAME (D) - DEED (PR) or (PRO) - PRO-RATE (NR) - NON RADIAL IR&C - IRON ROD AND CAP POP - PERMANENT CONTROL POINT NGVD - NATIONAL GEODETIC VERTICAL DATUM USCGS - UNITED STATES COASTAL AND GEODETIC SURVEY FLN or DNR - FLORIDA DEPARTMENT OF NATURAL RESOURCES CCL - COASTAL CONTROL LINE MHW - MEAN HIGH WATER DELTA - MES - MITERED END SECTION INV - INVERT CMP - CORRUGATED METAL PIPE RCP - REINFORCED CONCRETE PIPE TYP - TYPICAL TELE U/G - TELEPHONE UNDERGROUND W/V - WATER VALVE BC - BUILDING CORNER TBM - TEMPORARY BENCHMARK L - LINE PC - POINT OF CURVATURE PT - POINT OF TANGENCY CRD - CHORD EL - ELEVATION RP - RADIUS POINT NRMH - NORTH RIM MANHOLE SRMH - SOUTH RIM MANHOLE MH - MANHOLE GR - GRADE WIT - WITNESS UG - UNDERGROUND NE - NORTHEAST NW - NORTHWEST SW - SOUTHWEST SE - SOUTHEAST N - NORTH S - SOUTH E - EAST W - WEST PALM - PALM TREE CBW - CONCRETE BLOCK WALL OR - OFFICIAL RECORD BOOK MB - MAP BOOK PG - PAGE SUB - SUBDIVISION CD - CONC DRIVE



LEGEND



SURFACE WATER IMPACT TABULATION:

SURFACE WATER IMPACT #1 = 155 SF
 SURFACE WATER IMPACT #2 = 159 SF
 TOTAL = 314 SF

NOTE:
 CONTRACTOR TO UTILIZE FLOATING TURBIDITY BARRIERS.

HISTORIC AND SPECIMEN TREES

DBH	PINE	OAK
13"	—	2
14"	—	1
15"	—	1*
17"	—	1
18"	1	1
19"	1	—
20"	2(1*)	—
21"	2	—
23"	2(1*)	—
24"	2	1
36"	—	1*
TOTAL	10	8

* DENOTES TREES TO REMAIN

EXISTING HISTORIC OR SPECIMEN TREES = 18 TREES
 PER LDC SECTION 21-55.07a: 4 TREES / ACRE MINIMUM X 0.917 AC = 4 TREES
 EXISTING HISTORIC OR SPECIMEN TREES TO REMAIN = 4 TREES

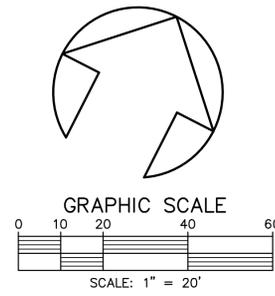
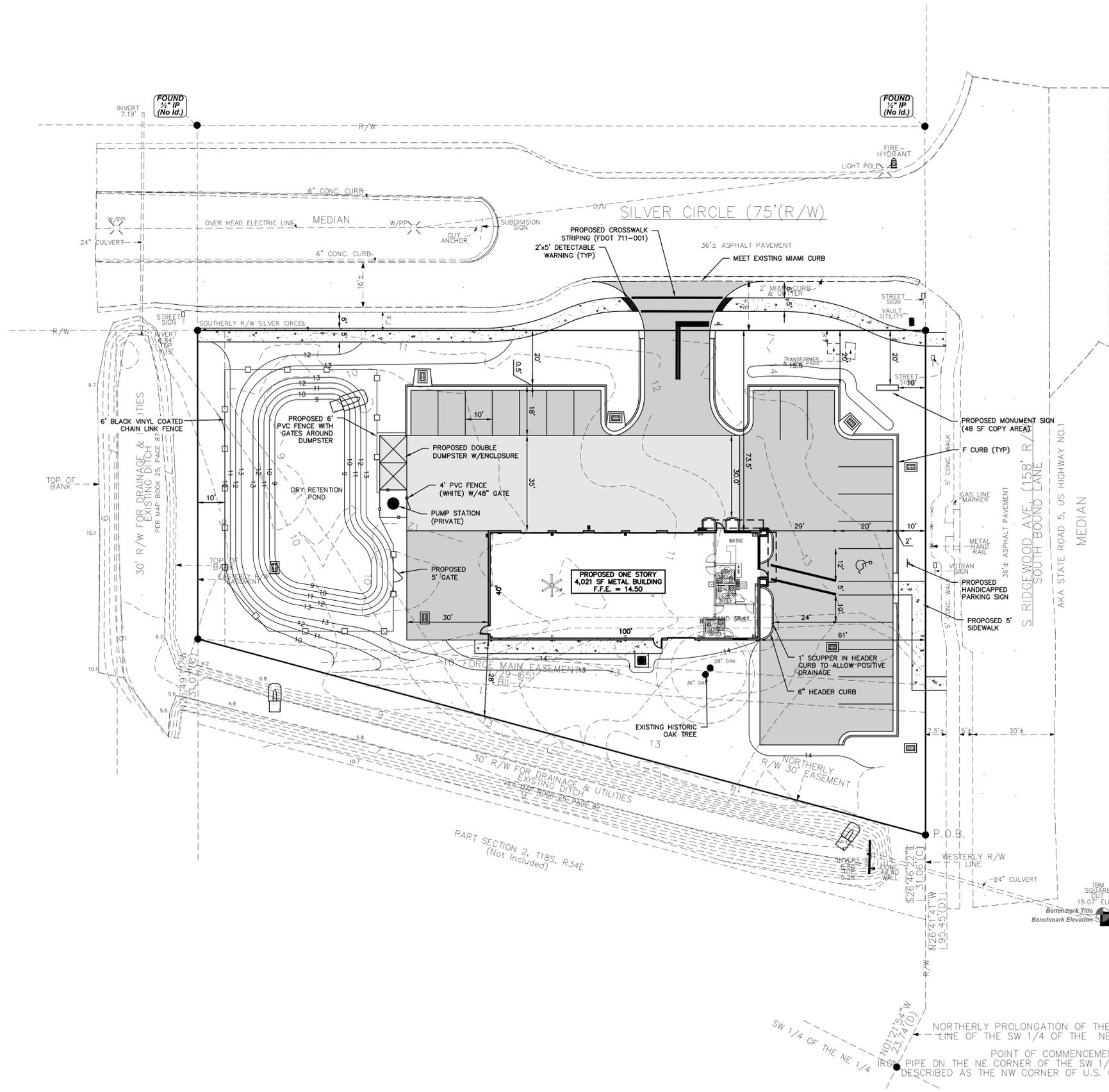
NO.	DATE	DESCRIPTION	BY
5	01-28-26	REVISED	MRB
4	01-05-26	ADDED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
2	10-17-25	REVISED PER SARWMD RAI	MRB
1	06-17-25	REVISED	MRB
			BY

PARKER MYNCHENBERG & ASSOCIATES, INC.
 PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
 1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
 STEVEN R. BUSWELL, P.E. #53985, R.L.A. #A666701,
 KEVIN A. LEE, P.E. #71501, TANNER J. BANKS, P.E. #02523
 (386) 677-6891 E-MAIL: info@parkermychenberg.com
 CERTIFICATE OF AUTHORIZATION NUMBER 00003910

MIKE'S TIRE WAREHOUSE
 EDGEWATER * FLORIDA
DEMOLITION & EROSION CONTROL PLAN

3
 SHEET NO.
 File No. 25-22
 Drawn By: MRB
 Date: 04/29/25
 SCALE: 1"=20'

SEAL



LEGEND

	1-1/2" ASPHALT BITUMINOUS CONCRETE TYPE SP 9.5
	8" LIMEROCK BASE (LBR 100) OR RECYCLED CONCRETE BASE (LBR 130) COMPACTED TO 98% DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST
	8" SUB-BASE COMPACTED TO 98% DENSITY BASED ON AASHTO T-180 MODIFIED PROCTOR TEST WITH MINIMUM LBR 40.
	6" THICK CONCRETE, 3,000 PSI @ 28 DAYS, ON 12" COMPACTED SUBBASE
	4" THICK CONCRETE, 2,500 PSI @ 28 DAYS, ON 12" COMPACTED SUBBASE
	WHEEL STOP

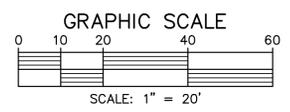
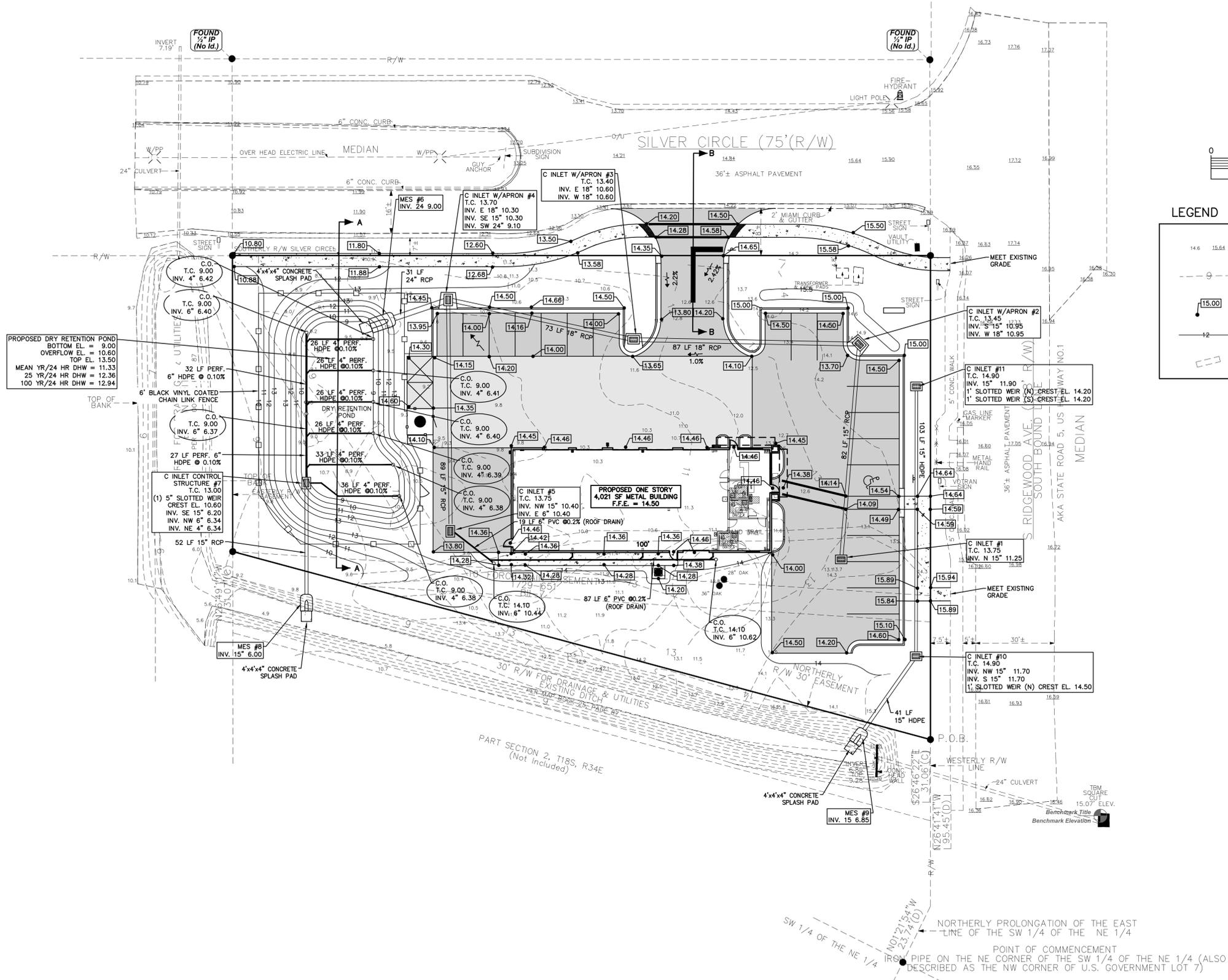
NO.	DATE	DESCRIPTION	BY
5	01-28-26	REVISED	MRB
4	01-03-26	ADDED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
2	10-17-25	REVISED PER SARWMD RAI	MRB
1	06-17-25	REVISED	MRB
		DESCRIPTION	BY

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MIKE'S TIRE WAREHOUSE
 EDGEWATER * FLORIDA
SITE PLAN

4
 SHEET NO.
 File No. 25-22
 Drawn By: MRB
 Date: 04/29/25
 SCALE: 1"=20'

SEAL



LEGEND

14.6 15.64	EXISTING GRADE
- - -	EXISTING CONTOUR
15.00	PROPOSED GRADE
- - -	PROPOSED CONTOUR
- - -	IRRIGATION SLEEVE

NO.	DATE	DESCRIPTION	BY
5	01-28-26	REVISED	MRB
4	01-05-26	ADDED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
2	10-17-25	REVISED PER SARWMD RAI	MRB
1	06-17-25	REVISED	MRB

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MIKE'S TIRE WAREHOUSE
 EDGEWATER * FLORIDA
CIVIL PLAN

SHEET NO.
 File No. 25-22
 Drawn By: MRB
 Date: 04/29/25
 SCALE: 1"=20'

SEAL

LANDSCAPE BUFFER (SILVER CIRCLE)

TYPE B
 WIDTH = 20 FT
 REQUIRED LANDSCAPING:
 CANOPY TREES = 5 PER 100 LF
 UNDERSTORY TREES = 10 PER 100 LF
 SHRUBS = 60 PER 100 LF
 LENGTH TO BE PLANTED = 240 FEET (LESS DRIVEWAY)
 NUMBER OF CANOPY TREES REQUIRED = 240 FT X 5 TREES / 100 LF
 NUMBER OF CANOPY TREES PROVIDED = 7 TREES PROPOSED + 5 EXISTING (EXCLUDING PALMS)
 NUMBER OF CANOPY TREES PROVIDED = 12 TREES
 NUMBER OF UNDERSTORY TREES REQUIRED = 240 FT X 10 TREES / 100 LF
 NUMBER OF UNDERSTORY TREES PROVIDED = 24 TREES
 NUMBER OF UNDERSTORY TREES PROVIDED = 22 TREES PROPOSED + 2.5 (EXISTING PALMS)
 NUMBER OF UNDERSTORY TREES PROVIDED = 24.5 TREES
 NUMBER OF SHRUBS REQUIRED = 240 FT X 60 SHRUBS / 100 LF
 NUMBER OF SHRUBS PROVIDED = 144 SHRUBS
 NUMBER OF SHRUBS PROVIDED = 165 SHRUBS

LANDSCAPE BUFFER (RIDGEMOOD AVE)

WIDTH = 20 FT
 PER ARTICLE XX SECTION 21-630.03(g)
 21-630.03(c) - MINIMUM LANDSCAPE REQUIREMENTS IN BUFFER YARD
 THE FOLLOWING REQUIREMENTS ARE INTENDED FOR PRIVATE PROPERTY OUTSIDE OF THE PUBLIC RIGHT-OF-WAY ADJACENT TO THE CORRIDOR AND PRIMARY STREETS.
 o. THE MINIMUM LANDSCAPE BUFFER SHALL INCLUDE A TOTAL OF THREE (3) TREES PER EVERY 50 LINEAL FEET (50'). ONE MAGNOLIA PLACED EVERY FIFTY (50) LINEAL FEET. TWO (2) CREPE MYRTLES PLACED IN BETWEEN THE MAGNOLIA'S FIFTY (50) LINEAL FEET. SHRUBS SHALL BE PLACED AT A MINIMUM OF FORTY (40) PER ONE HUNDRED (100) LINEAL FEET.
 LENGTH TO BE PLANTED = 184 FEET
 NUMBER OF TREES REQUIRED = 184 FT X 3 TREES / 50 LF
 NUMBER OF TREES PROVIDED = 11.04 (11) TREES
 NUMBER OF TREES PROVIDED = 12 TREES
 NUMBER OF SHRUBS REQUIRED = 184 FT X 40 SHRUBS / 50 LF
 NUMBER OF SHRUBS PROVIDED = 73.6 (74) SHRUBS
 NUMBER OF SHRUBS PROVIDED = 79 SHRUBS

SYMBOL	ABB.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE
JH*	JH	79	JUNIPERUS HORIZONTALIS	CREeping JUNIPER	1 GAL., 12"-15" SPD., 20" O.C.
TV	TV	33	TULBAGHIA VIOLACEA	SOCIETY GARLIC	1 GAL., 12"-15" SPD., 20" O.C.
VS	VS	104	VIBURNUM SUSPENSUM	SANDANKWA VIBURNUM	3 GAL., 30" O.C., 24" HT., MIN.
IV*	IV	69	ILEX VOMITORIA	YAUPOH HOLLY	3 GAL., 30" O.C., 24" HT., MIN.
RI*	RI	268	RAPHIOLEPIS INDICA	INDIAN HAWTHORN	3 GAL., 24" O.C., 10' HT., MIN.
VO	VO	63	VIBURNUM ODORATISSIMUM	SWEET VIBURNUM	3 GAL., 30" O.C., 24" HT., MIN.
PM	PM	74	PODOCARPUS MACROPHYLLA	YEW PODOCARPUS	7 GAL., 30" O.C., 40" HT., MIN.
QV*	QV	12	QUERCUS VIRGINIANA	LIVE OAK	45 GAL., 12" HT. MIN., 3" MIN. CAL.
MG*	MG	5	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	45 GAL., 12" HT. MIN., 3" MIN. CAL.
LI	LI	66	LAGERSTROEMIA INDICA	GRAPE MYRTLE	15 GAL. MIN., MULTI-TRUNK 6'-8" HT.
PE*	PE	8	PINUS ELLIOTTI	SLASH PINE	45 GAL., 12" HT. MIN., 3" MIN. CAL.

* DENOTES NATIVE PLANT SPECIES

NATIVE PLANT PERCENTAGES

SHRUBS & GROUND COVER

COMMON NAME	ABB.	TOTAL QTY	NATIVE	NATIVE QTY
CREeping JUNIPER	JH	79	Y	79
SOCIETY GARLIC	TV	33	N	-
VIBURNUM SUSPENSUM	VS	104	N	-
YAUPOH HOLLY	IV	69	Y	69
INDIAN HAWTHORN	RI	268	Y	268
VIBURNUM ODORATISSIMUM	VO	63	N	-
YEW PODOCARPUS	PM	74	N	-
TOTAL		690		416

REQUIRED NATIVE PLANT MINIMUM = 25.00%
 PROVIDED NATIVE PLANT = 60.29%

TREES

COMMON NAME	ABB.	TOTAL QTY	NATIVE	NATIVE QTY
LIVE OAK	QV	12	Y	12
MAGNOLIA	MG	5	Y	5
GRAPE MYRTLE	LI	66	N	-
SLASH PINE	PE	8	Y	8
TOTAL		91		25

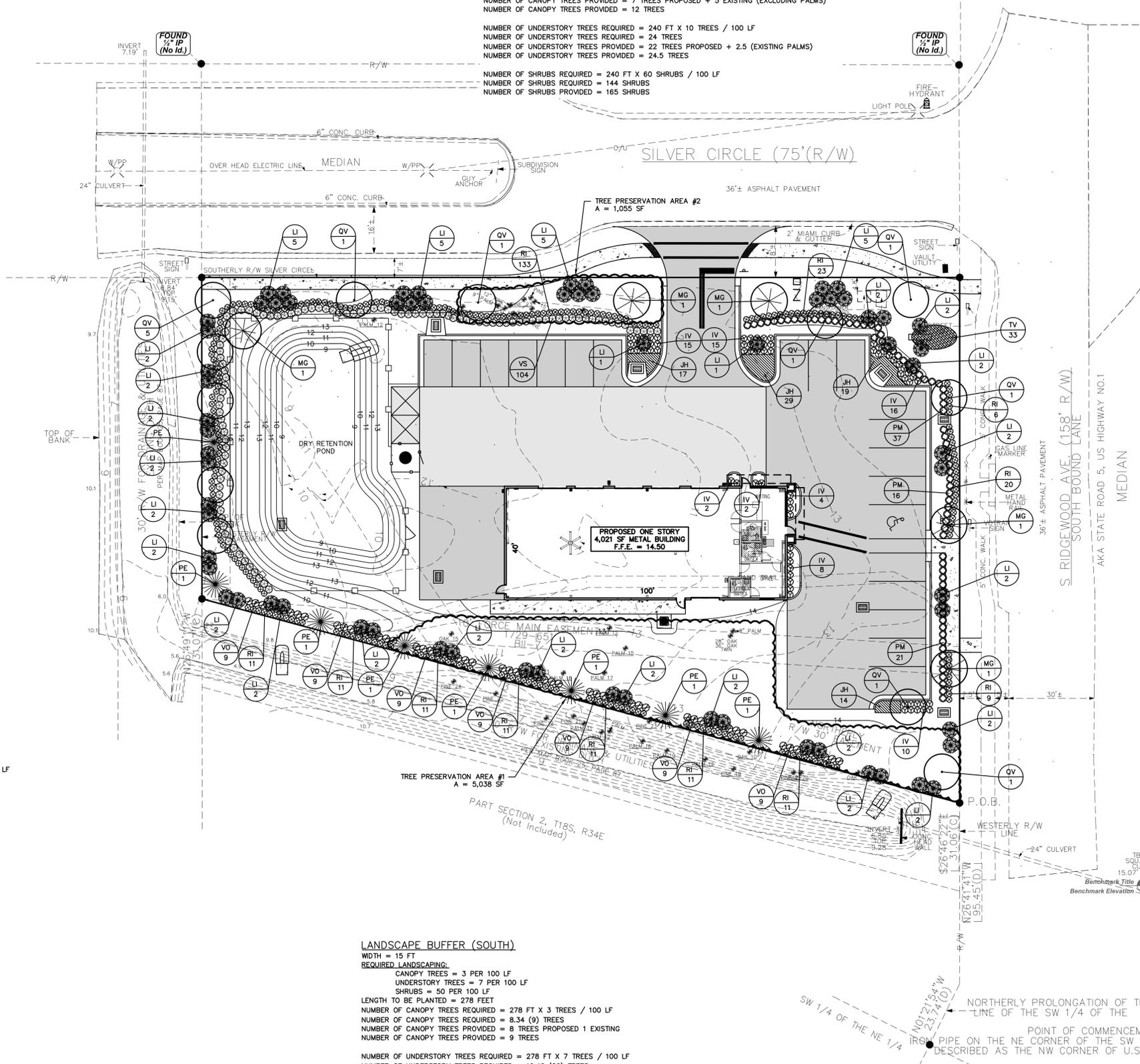
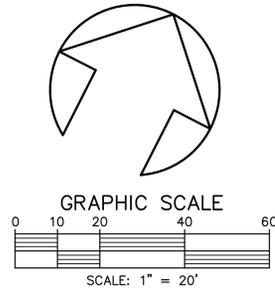
REQUIRED NATIVE PLANT MINIMUM = 25.00%
 PROVIDED NATIVE PLANT = 27.47%

TREE PRESERVATION CALCULATION

REQUIRED TREE PRESERVATION = SITE AREA X 15%
 REQUIRED TREE PRESERVATION = 39,951 X 15%
 REQUIRED TREE PRESERVATION = 5,993 SF
 PROVIDED TREE PRESERVATION = 5,038 SF (TPA#1)
 PROVIDED TREE PRESERVATION = 1,055 SF (TPA#2)
 TOTAL PROVIDED TREE PRESERVATION = 6,093 SF

PER LDC SECTION 21-55.09:

REQUIRED TREES = 1 TREE / 1,500 SF (39,945 SF)
 REQUIRED TREES = 26.6 (27) TREES
 HISTORIC OR SPECIMEN TREES TO REMAIN = 4 TREES
 PLANTED TREES = 25 TREES (QV+MG+PE)
 TOTAL PROVIDED TREES = 29 TREES



LANDSCAPE BUFFER (REAR)

WIDTH = 25 FT
 REQUIRED LANDSCAPING:
 CANOPY TREES = 7 PER 100 LF
 UNDERSTORY TREES = 10 PER 100 LF
 SHRUBS = 70 PER 100 LF
 LENGTH TO BE PLANTED = 112 FEET
 NUMBER OF CANOPY TREES REQUIRED = 112 FT X 7 TREES / 100 LF
 NUMBER OF CANOPY TREES PROVIDED = 7.84 (8) TREES
 NUMBER OF CANOPY TREES PROVIDED = 8 TREES
 NUMBER OF UNDERSTORY TREES REQUIRED = 112 FT X 10 TREES / 100 LF
 NUMBER OF UNDERSTORY TREES PROVIDED = 11.2 (12) TREES
 NUMBER OF UNDERSTORY TREES PROVIDED = 12 TREES
 NUMBER OF SHRUBS REQUIRED = 112 FT X 70 SHRUBS / 100 LF
 NUMBER OF SHRUBS PROVIDED = 78.4 (79) SHRUBS
 NUMBER OF SHRUBS PROVIDED = 94 SHRUBS

LANDSCAPE BUFFER (SOUTH)

WIDTH = 15 FT
 REQUIRED LANDSCAPING:
 CANOPY TREES = 3 PER 100 LF
 UNDERSTORY TREES = 7 PER 100 LF
 SHRUBS = 50 PER 100 LF
 LENGTH TO BE PLANTED = 278 FEET
 NUMBER OF CANOPY TREES REQUIRED = 278 FT X 3 TREES / 100 LF
 NUMBER OF CANOPY TREES PROVIDED = 8.34 (9) TREES
 NUMBER OF CANOPY TREES PROVIDED = 8 TREES PROPOSED 1 EXISTING
 NUMBER OF CANOPY TREES PROVIDED = 9 TREES
 NUMBER OF UNDERSTORY TREES REQUIRED = 278 FT X 7 TREES / 100 LF
 NUMBER OF UNDERSTORY TREES PROVIDED = 19.46 (20) TREES
 NUMBER OF UNDERSTORY TREES PROVIDED = 20 TREES
 NUMBER OF SHRUBS REQUIRED = 278 FT X 50 SHRUBS / 100 LF
 NUMBER OF SHRUBS PROVIDED = 139 SHRUBS
 NUMBER OF SHRUBS PROVIDED = 140 SHRUBS

NO.	DATE	DESCRIPTION	BY
5	01-28-26	REVISED	MRB
4	01-03-26	ADDED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
2	10-17-25	REVISED PER SARWMD RAI	MRB
1	06-17-25	REVISED	MRB
			BY

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 CERTIFICATE OF AUTHORIZATION NUMBER 00003910

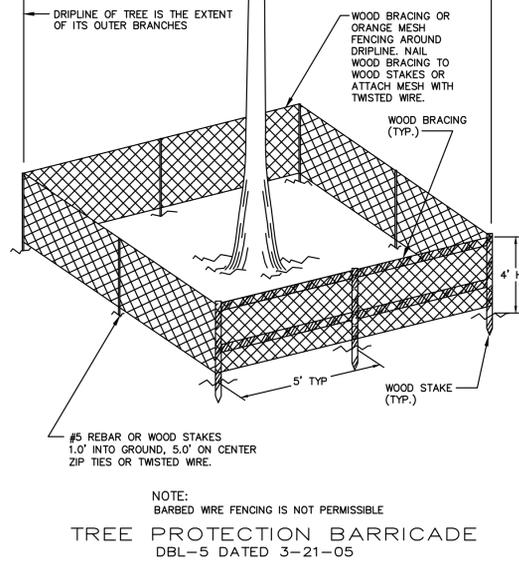
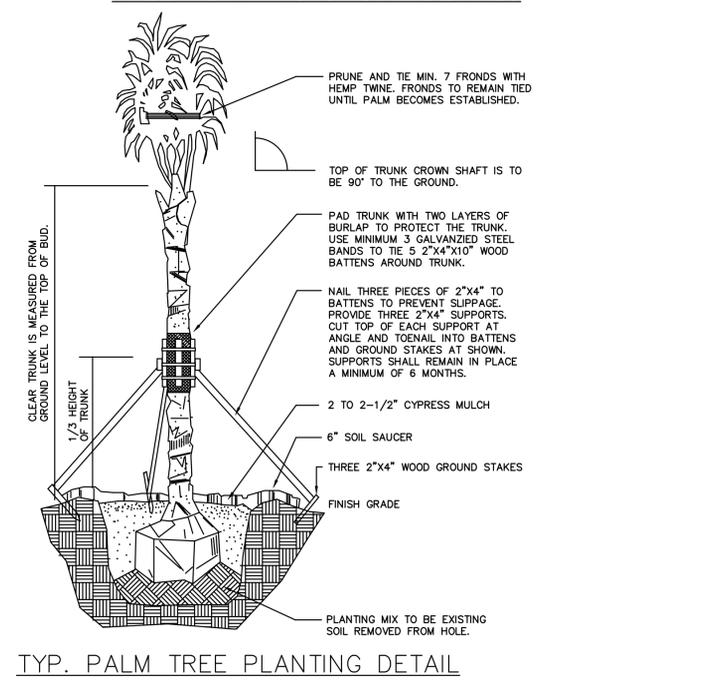
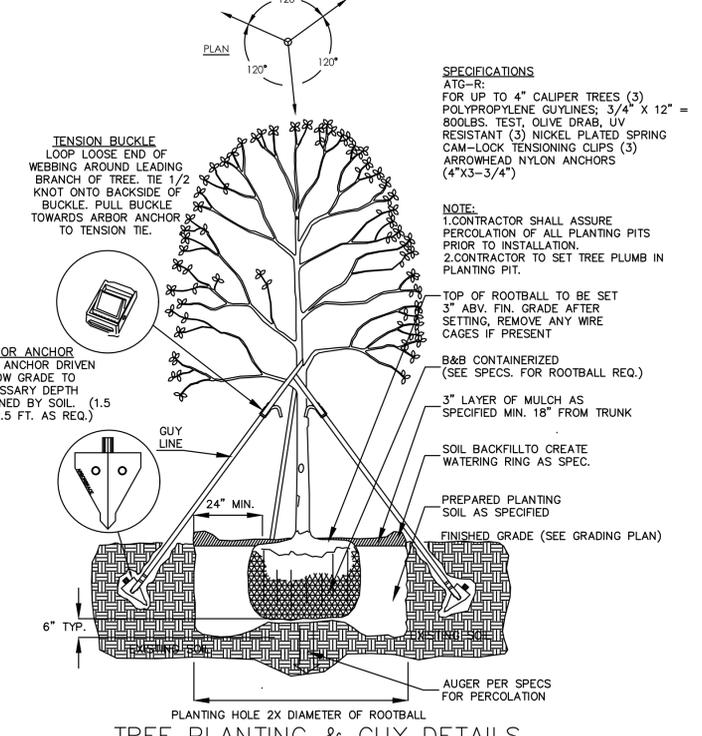
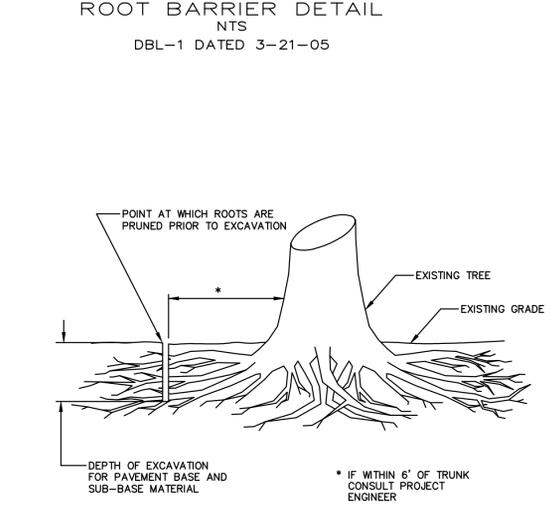
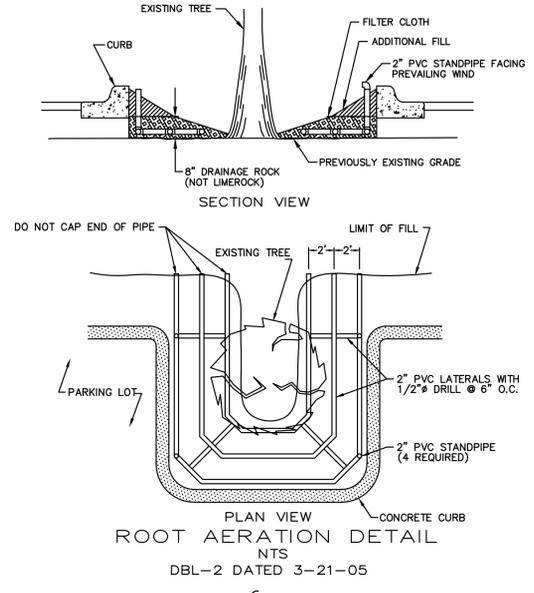
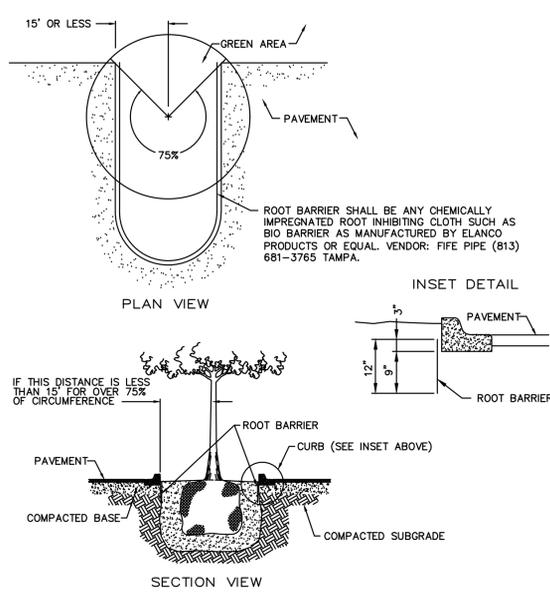
MIKE'S TIRE WAREHOUSE
 EDgewater * FLORIDA
LANDSCAPE PLAN

7
 SHEET NO.
 File No. 25-22
 Drawn By: MRB
 Date: 04/29/25
 SCALE: 1"=20'

SEAL

LANDSCAPE NOTES

- 1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND WORK CALLED FOR IN THE LANDSCAPE. THE PLANT LIST QUANTITIES SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES.
- 2.) ALL PLANT BEDS AND ALL EXISTING AND PROPOSED PARKING LOT ISLANDS SHALL BE DRESSED WITH 2"-3" MINIMUM SHREDDED CYPRESS MULCH.
- 3.) THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR STABILITY AND PLUMB CONDITION OF ALL PLANTS AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF PLANT MATERIALS.
- 4.) THE CONTRACTOR SHALL DISPOSE OF STUMPS AND MAJOR ROOTS OF ALL PLANTS TO BE REMOVED.
- 5.) THE LANDSCAPE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH ALL OTHER WORK TO BE DONE ON SITE, PRIOR TO LANDSCAPE INSTALLATION.
- 6.) THE CONTRACTOR SHALL INSURE ADEQUATE VERTICAL DRAINAGE IN ALL PLANT PITS. TEST HOLES FOR THE VISUAL INSPECTION OF DRAINAGE SHALL BE DUG PRIOR TO INSTALLATION OF ANY PLANTS. THE CONTRACTOR SHALL AMEND POOR DRAINAGE UNTIL ACCEPTABLE FOR PLANT SURVIVABILITY.
- 7.) ALL PLANT PITS TO BE TWICE THE WIDTH OF THE ROOT BALL AND SHALL BE BACKFILLED WITH 50% SAND, 30% PEAT, 25% COW MANURE UNIFORMLY MIXED.
- 8.) THE CONTRACTOR SHALL REPLACE ALL PLANTS WHICH ARE NOT IN A HEALTHY GROWING CONDITION PRIOR TO ACCEPTANCE. ALL PLANTS SHALL BE MAINTAINED AND GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS FOLLOWING ACCEPTANCE BY THE OWNER. ANY PLANTS FOUND NOT TO BE IN A HEALTHY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- 9.) SOD SHALL BE STRONG, SOLID SOD PLACED EVENLY AND WITHOUT GAPS BETWEEN PIECES. GROUND SHALL BE THOROUGHLY WETTED BEFORE PLACING SOD. SOD SHALL BE PLACED TO LIMITS SHOWN AND TO THE EXTENT OF DAMAGED EXISTING SOD. EXISTING GROUND SHALL BE STRIPPED BEFORE PLACING NEW SOD.
- 10.) ALL TREES AND SHRUBS TO BE PLANTED NO LOWER THAN PROPOSED GRADE.
- 11.) THE TWO AREAS SHOWN HEREON ON THIS DRAWING AND ON THE SITE DEVELOPMENT PLAN ARE LABELED, TO REMAIN NATURAL. NO TREES ARE TO BE REMOVED FROM THESE AREAS WITHOUT APPROVAL OF THE OWNER AND CITY.
- 12.) CLEARING PROCEDURE: THE OWNER OR DEVELOPER IS RESPONSIBLE FOR INSURING THAT ALL POSSIBLE MEASURES ARE TAKEN DURING THE CLEARING PROCESS TO AVOID DAMAGE TO TREES AND VEGETATION DESIGNATED TO REMAIN AFTER CONSTRUCTION. THIS INCLUDES USE OF HAND LABOR RATHER THAN LARGE MACHINERY WHERE NECESSARY TO PROTECT TREES TO BE PRESERVED. ALL FELLED MATERIAL SHALL BE PROMPTLY AND CAREFULLY REMOVED FROM THE SITE IN ORDER TO AVOID POTENTIAL DAMAGE TO REMAINING TREES AND VEGETATION AND THE HARBORING OF INSECTS AND RODENTS.
- 13.) ALL PLANT MATERIALS SHALL BE FLORIDA NO. 1 GRADE OR BETTER, ACCORDING TO THE CURRENT GRADES AND STANDARDS FOR NURSERY PLANTS, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, EXCEPT WHERE IN THE DISCRETION OF THE ENFORCEMENT OFFICIAL. NATURAL VEGETATION IS ADEQUATE TO PROVIDE THE NECESSARY VISUAL SCREENING.
 - A. GROUND COVERS. GROUND COVERS MAY INCLUDE ANY PLANT MATERIALS THAT REACH AN AVERAGE HEIGHT OF NOT MORE THAN 12 INCHES. GROUND COVERS MUST PRESENT A FINISHED APPEARANCE AND PROVIDE REASONABLY COVERAGE AT TIME OF PLANTING.
 - B. LAWN GRASS. GRASSED AREAS SHALL BE PLANTED WITH ST. AUGUSTINE "FLORATAM" OR EQUAL APPROVED BY OWNER.



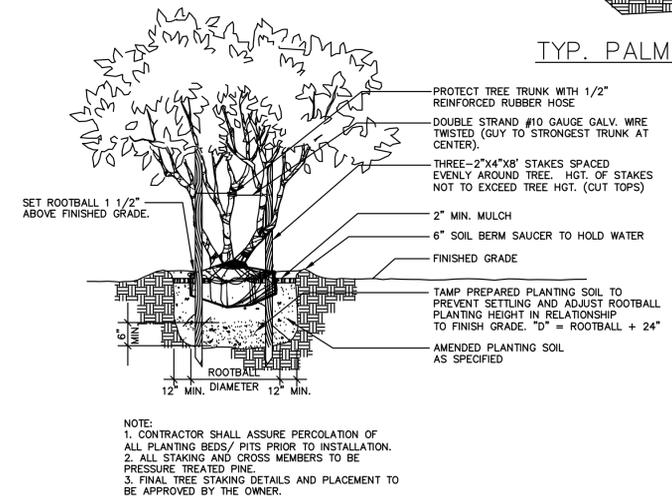
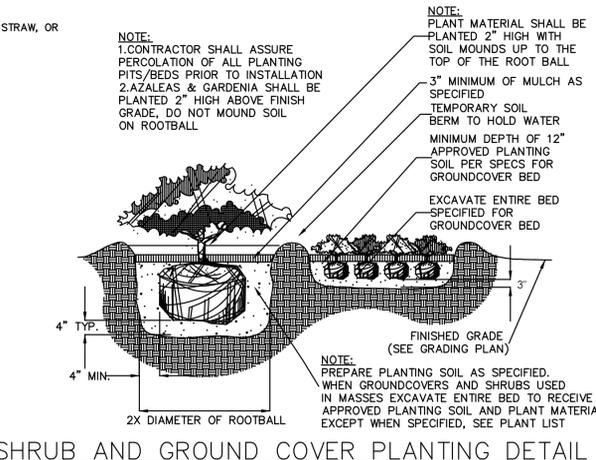
SODDING, SEEDING, & MULCHING NOTES

- A. SCOPE OF WORK THE WORK IN THIS SECTION CONSISTS OF FURNISHING AND COMPLETELY INSTALLING SOD, OR SEED AND MULCH OVER THE LIMITS CALLED FOR ON THE CONSTRUCTION DRAWINGS. AT A MINIMUM, ALL WORK SHALL MEET THE MINIMUM SPECIFICATIONS OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AS OUTLINED IN SECTIONS 570 (GRASSING BY SEEDING) AND 575 (SODDING). IN ADDITION, ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE CITY.
 - B. MATERIALS GRASS SEED SHALL BE A MIXTURE OF:

PENSACOLA BAHIA (USE 50% SCARIFIED SEED)	50%
HULLED BERMUDA	25%
BROWN TOP MILLET	25%

IN THE FALL AND WINTER MONTHS, AND WITH THE APPROVAL OF THE CITY, ANNUAL RYE GRASS SHALL BE SUBSTITUTED IN EQUAL AMOUNTS FOR THE BROWN TOP MILLET. SEED SHALL BE PRE-MIXED BY A SEED COMPANY TO THE PERCENTAGES DESCRIBED ABOVE, WITH CERTIFICATION FROM THE SUPPLIER PROVIDED TO THE CITY'S DESIGNATED PROJECT LANDSCAPE INSPECTOR PRIOR TO USE.

MULCH USED SHALL BE STRAW OR HAY CONSISTING OF OATS, RYE, OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA, OR BAHIA GRASS HAY. MULCH SHALL BE FREE FROM UNDESIRABLE WEED AND OTHER UNDESIRABLE GRASS.
 - C. METHODS. GRASSING SHALL BE DONE IMMEDIATELY UPON COMPLETION OF THE FINE GRADING OPERATION. HOWEVER, NO SEEDING SHALL BE DONE WHEN THE GROUND IS FROZEN OR UNDULY WET. THE RATE OF SPREAD FOR THE SEED MATERIAL SHALL BE ONE HUNDRED AND THIRTY (130) POUNDS PER ACRE.
- APPROXIMATELY ONE INCH (1"), LOOSE THICKNESS, OF MULCH MATERIAL SHALL BE APPLIED UNIFORMLY OVER THE SEEDED AREAS (APPROXIMATELY ONE AND ONE-HALF (1-1/2) BALES PER 1000 SQUARE FEET). THE MULCH MATERIAL SHALL BE CUT INTO THE SOIL WITH A DISC HARROW OR OTHERWISE ANCHORED DOWN, UNDER PROPER CIRCUMSTANCES, CONTRACTOR MAY REQUEST OPTION TO INSTALL HYDRO-SEEDING SUBJECT TO THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT AND THE CITY

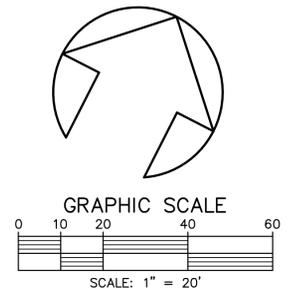
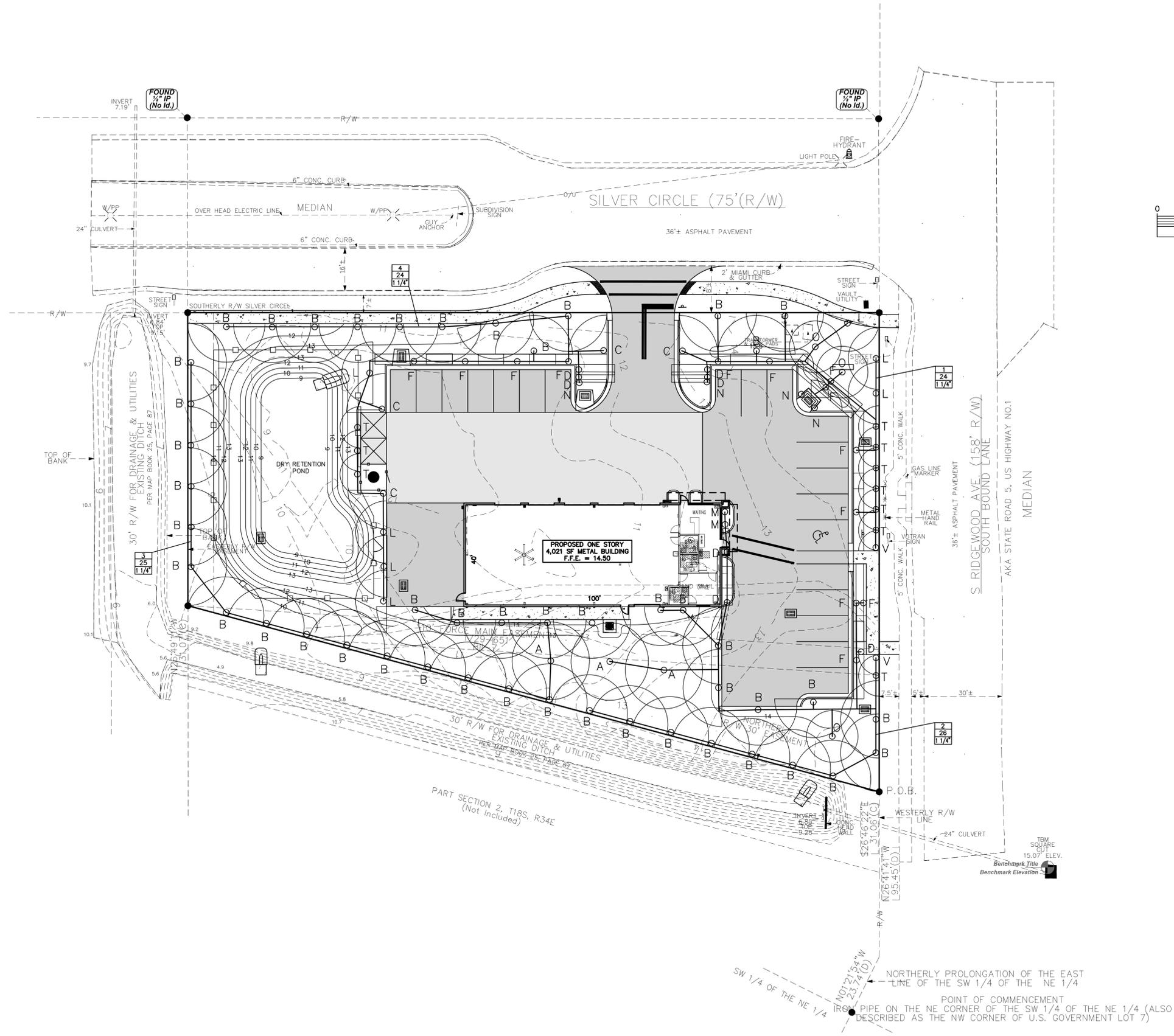


NO.	DATE	DESCRIPTION	REVISIONS
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4	01-05-26	ADDED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
2	10-17-25	REVISED PER SARWMD RAI	MRB
1	06-17-25	REVISED	MRB
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CERTIFICATE OF AUTHORIZATION NUMBER 00003910

MIKE'S TIRE WAREHOUSE
EDGEWATER * FLORIDA
LANDSCAPE DETAILS

SHEET NO.
File No. 25-22
Drawn By: MRB
Date: 04/29/25
SCALE: NONE
SEAL



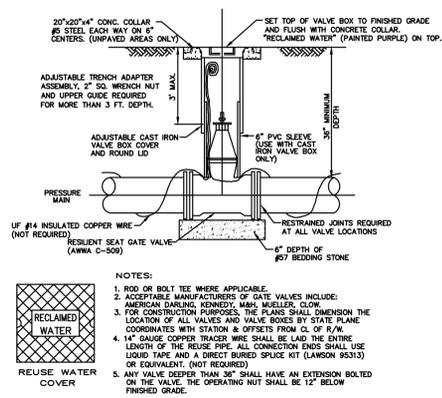
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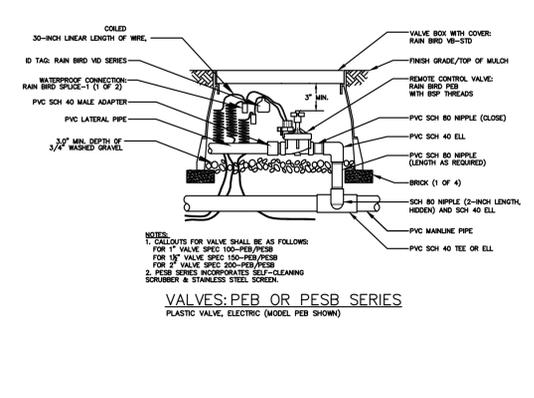
MIKE'S TIRE WAREHOUSE
 EDGEWATER * FLORIDA
 IRRIGATION PLAN

SHEET NO.
 File No. 25-22
 Drawn By: MRB
 Date: 04/29/25
 SCALE: 1"=20'

SEAL



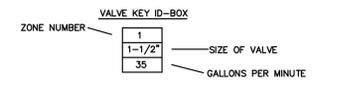
REUSE WATER VALVE AND VALVE BOX DETAILS



VALVES: PEB OR PESB SERIES

IRRIGATION LEGEND

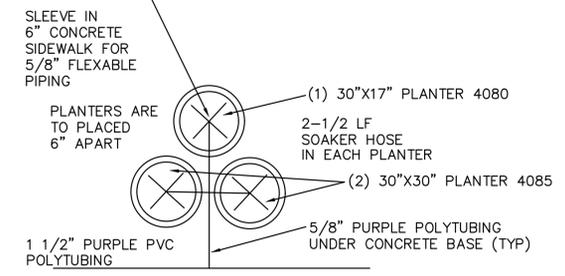
- RAIN BIRD PEB OR PESB SERIES - ELECTRIC CONTROL VALVE INSTALLED IN VIB-STD VALVE BOX OR APPROVED EQUAL.
- DENOTES PROPOSED REUSE VALVE (SIZE AS SHOWN)
- DENOTES PROPOSED IRRIGATION MAIN, SCH. 40 (SIZE AS SHOWN)
- DENOTES PROPOSED IRRIGATION LATERAL, SCH. 40 (SIZE AS SHOWN)
- P.V.C. SLEEVE SIZE AS SHOWN



SPECIFIC IRRIGATION NOTES

- IRRIGATION SPRAY HEADS SHALL BE PRESSURE REGULATING.
- SYSTEM SUPPLY REQUIREMENTS ARE: 40 GPM @ 40 PSI AT WATER SOURCE. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF DESIGN FLOW RATE AND PRESSURE DOES NOT EXIST.
- LATERAL PIPES SHALL BE SIZED SUCH THAT THE WATER VELOCITY DOES NOT EXCEED 5 FEET/SECOND. CONTRACTOR SHALL APPLY THE FOLLOWING TABLE:

PIPE SIZE (IN)	FLOW
1/2"	<8 GPM
3/4"	<10 GPM
1"	<15 GPM
1 1/4"	<26 GPM
1 1/2"	<36 GPM
2"	<50 GPM
2 1/2"	<80 GPM
3"	<120 GPM
4"	<200 GPM



TYPICAL (3) PLANTER IRRIGATION DETAIL

5000 MPR NOZZLE PERFORMANCE DATA CHART

NOZZLE NO.	PSI	GPM	RADIUS
2	40	1.6	37"
3	40	2.7	41"
4	40	2.9	41"
5	40	3.5	41"
6	40	4.8	45"
8	40	6.4	45"
10	40	7.5	41"
12	40	10.1	39"

5000 PMR SHORT RADIUS NOZZLE PERFORMANCE DATA CHART

NOZZLE NO.	PSI	GPM	RADIUS
18S	40	1.5	19"
22S	40	1.6	21"
26S	40	1.9	25"
30S	40	1.8	29"

RAIN BIRD MPR SERIES NOZZLE SELECTION CHART

SYM	SPEC	P.S.I.	G.P.M.	RADIUS	PATTERN
A	15F	30	3.7	15'	FULL
B	15H	30	1.85	15'	HALF
C	150	30	0.92	15'	QUARTER
D	15EST	30	0.61	4'X15'	END STRIP
E	15CST	30	1.21	4'X30'	CENTER STRIP
F	15SST	30	1.21	4'X30'	SIDE STRIP
G	15RCS	30	0.49	4'X15'	SIDE STRIP RIGHT
H	15CLS	30	0.49	4'X15'	SIDE STRIP LEFT
J	95ST	30	1.73	9'X18'	SIDE STRIP
K	9F	30	2.6	12'	FULL
L	12H	30	1.3	12'	HALF
M	50-B	30	0.50	5'	BUBBLER
N	120	30	0.65	12'	QUARTER
O	10F	30	1.58	10'	FULL
P	10H	30	0.79	10'	HALF
R	100	30	0.39	10'	QUARTER
S	8F	30	1.05	8'	FULL
T	8H	30	0.52	8'	HALF
V	80	30	0.26	8'	QUARTER
W	5F	30	0.41	5'	QUARTER
X	5H	30	0.20	5'	FULL
Y	50	30	0.10	5'	HALF
Z	5F-B	30	1.50	5'	BUBBLER

GENERAL IRRIGATION NOTES

- THE CONTRACTOR SHALL REFER TO THE LANDSCAPING PLAN WHEN TRENCHING TO LAY PIPE TO AVOID NEW & EXISTING TREES & LARGE SHRUBS.
- ALL WIRING FROM THE EXISTING IRRIGATION CONTROLLER TO THE REMOTE CONTROL VALVES SHALL BE UF-14/1 DIRECT BURIAL CABLE. ALL WIRE SPLICES SHALL BE MADE IN VALVE BOXES USING ONLY RAIN BIRD CONNECTORS & SEALANT.
- UNLESS OTHERWISE INDICATED, PIPING TO A SINGLE SPRAY HEAD SHALL BE 1/2" PVC PIPING, UNLESS OTHERWISE INDICATED, PIPING TO A SINGLE ROTOR HEAD SHALL BE 3/4" PVC PIPING.
- ALL MAIN LINE PIPING SHALL BE BURIED TO HAVE A MINIMUM COVER OF 18". ALL LATERAL PIPING DOWNSTREAM OF THE MAIN LINE SHALL BE BURIED TO HAVE A MINIMUM COVER OF 12".
- THE CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE ARCHITECT ON THE EXACT LOCATION OF THE EXISTING IRRIGATION CONTROLLERS.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS & DIMENSIONS SHOWN ON PLANS AT THE SITE PRIOR TO COMMENCEMENT OF WORK UNDER THIS CONTRACT.
- ALL PIPING ON THE PLANS IS DIAGRAMMATICALLY ROUTED FOR CLARITY & SHALL BE ROUTED TO AVOID PLANTS. DESIGN MODIFICATIONS SHALL ONLY BE MADE AS NECESSARY TO MEET FIELD CONDITIONS & ONLY UPON APPROVAL OF THE LANDSCAPE ARCHITECT. PIPING SHOWN RUNNING PARALLEL UNDER SIDEWALKS ADJACENT TO PLANTED AREAS IS FOR DESIGN CONVENIENCE ONLY & SHALL BE INSTALLED WITHIN THE PLANTED AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL ADJUSTMENT OF THE SPRINKLERS ARC & RADIUS TO ASSURE 100 PERCENT COVERAGE.
- 115 VOLT, SINGLE PHASE ELECTRICAL POWER EXISTING FOR THE EXISTING IRRIGATION CONTROLLERS. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL HOOK-UP TO PROPOSED ELECTRICAL VALVES INCLUDING ELECTRICAL MATERIALS.
- VALVES LOCATED OUTSIDE OF RIGHT-OF-WAY ARE FOR DESIGN PURPOSES ONLY & SHALL BE LOCATED INSIDE OF RIGHT-OF-WAY.
- ANY CHANGES TO IRRIGATION ZONE PIPING TO BE APPROVED BY THE CITY LANDSCAPE ARCHITECT PRIOR TO WORK BEING DONE.
- ALL XERIC IRRIGATION ZONES SHALL HAVE RUN TIMES REDUCED OR ELIMINATED AFTER SUFFICIENT PLANT ESTABLISHMENT. THIS NOTE TO APPEAR INSIDE THE CONTROLLER FOR MAINTENANCE PERSONNEL INFORMATION.

SCHEDULE OF LENGTHS OF RESTRAINED DIP (FT.)

FITTING	90° BEND	45° BEND	22.5° BEND	11.25° BEND	TEE OR DEAD END
4"	21 (26)	18 (18)	18 (18)	18 (18)	37 (35)
6"	30 (36)	18 (18)	18 (18)	18 (18)	52 (50)
8"	38 (45)	18 (18)	18 (18)	18 (18)	67 (65)
10"	45 (54)	18 (22)	18 (18)	18 (18)	81 (77)
12"	52 (63)	22 (26)	18 (18)	18 (18)	94 (84)
14"	60 (72)	25 (30)	18 (18)	18 (18)	107 (100)
16"	66 (80)	27 (33)	18 (18)	18 (18)	120 (100)
18"	74 (87)	31 (36)	18 (18)	18 (18)	132 (108)
20"	80 (94)	33 (39)	18 (18)	18 (18)	144 (116)
24"	92 (108)	38 (45)	18 (22)	18 (18)	167 (125)
30"	106 (126)	44 (53)	21 (25)	18 (18)	199 (138)
36"	122 (144)	50 (60)	24 (28)	18 (18)	230 (162)
42"	138 (162)	57 (68)	27 (32)	18 (18)	261 (180)
48"	154 (180)	64 (77)	30 (36)	18 (18)	292 (204)

SCHEDULE OF LENGTHS OF RESTRAINED PVC PIPE (FT.)

FITTING	90° BEND	45° BEND	22.5° BEND	11.25° BEND	TEE OR DEAD END
4"	20	18	18	18	45
6"	28	18	18	18	62
8"	36	18	18	18	82
10"	44	28	18	18	98
12"	51	21	18	18	116
14"	57	24	18	18	132
16"	63	26	18	18	149
18"	69	29	18	18	163
20"	75	31	18	18	179
24"	87	36	18	18	208
30"	102	42	20	18	248

LENGTHS BETWEEN HEAVY LINES INDICATE ONE FULL LENGTH (18" MIN.) OF PIPE TO BE RESTRAINED.

TABLE SHOWS MINIMUM LENGTH OF PIPE EACH WAY FROM FITTING FOR WHICH RESTRAINT IS REQUIRED.

TABLE APPLIES TO DUCTILE IRON PIPE FOR THE FOLLOWING CONDITIONS:

TEST PRESSURE: 150 PSIG

SOIL TYPE: SP

DEPTH: 3 FEET (MIN.)

SAFETY FACTOR: 1.5

TRENCH TYPE: 3

VALUES IN PARENTHESIS (S) ARE FOR PIPE ENCASED IN POLYETHYLENE.

VALUES APPLY TO DUCTILE IRON PIPE AT 50 PSI TEST PRESSURE.

LENGTHS BETWEEN HEAVY LINES INDICATE ONE FULL LENGTH (18" MIN.) OF PIPE TO BE RESTRAINED.

TABLE APPLIES TO PVC PIPE FOR THE FOLLOWING CONDITIONS:

TEST PRESSURE: 150 PSIG

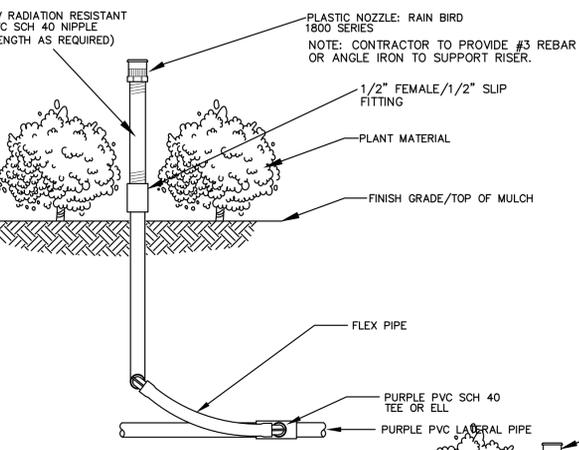
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DEPTH: 3 FEET (MIN.)

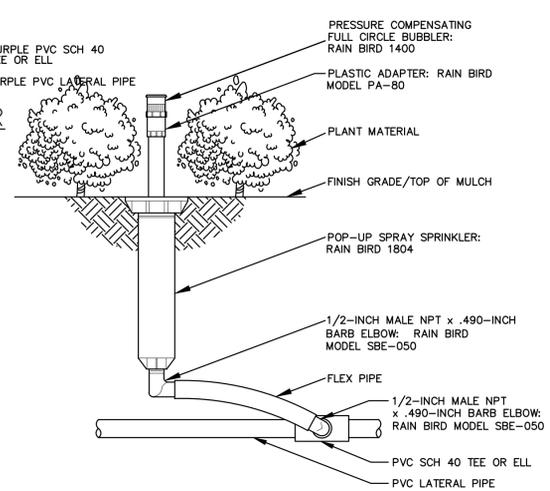
SAFETY FACTOR: 1.5

TRENCH TYPE: 3

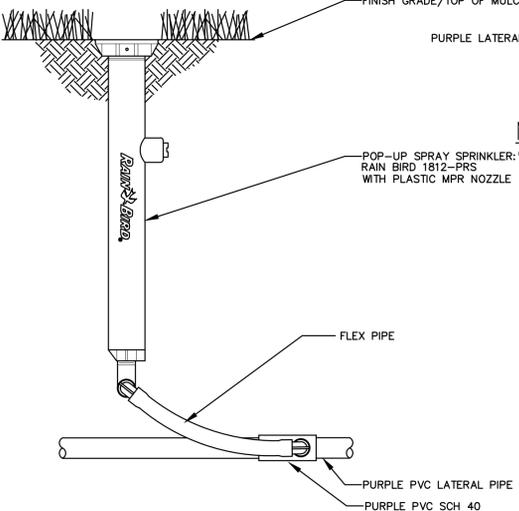
PVC & DIP RESTRAINED JOINT TABLE



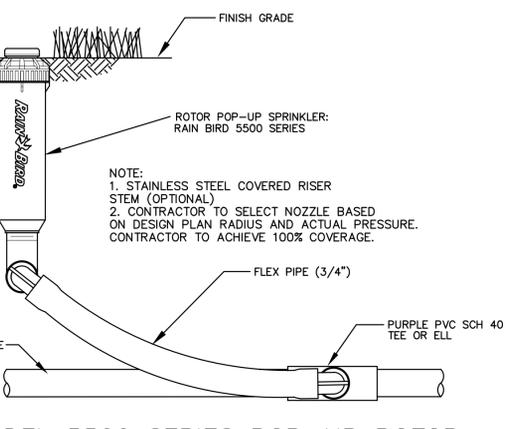
MODEL 1800 NOZZLE ON RISER



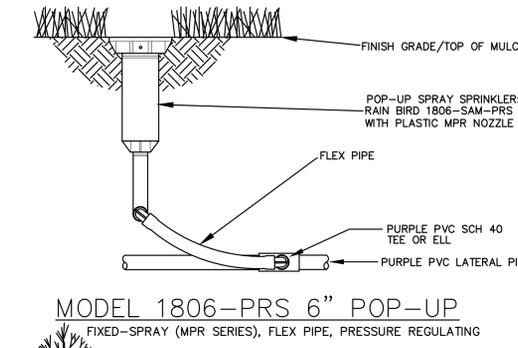
MODEL 1804 POP-UP



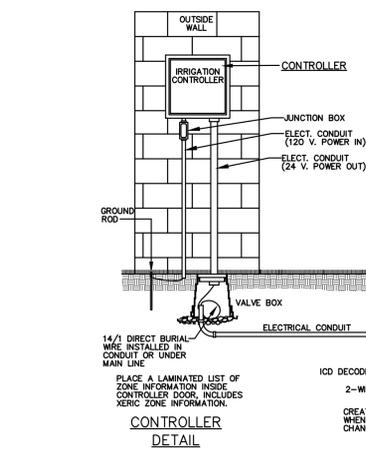
MODEL 1812-PRS 12" POP-UP



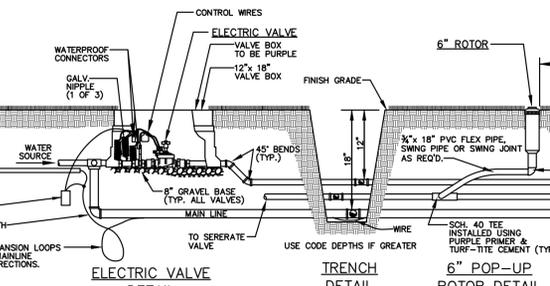
MODEL 5500 SERIES POP-UP ROTOR



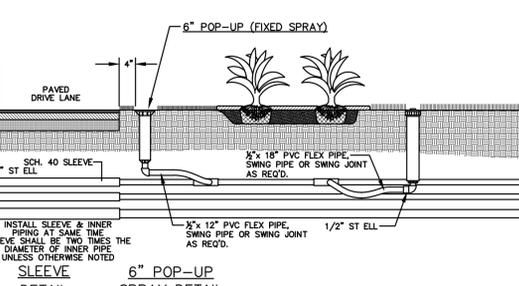
MODEL 1806-PRS 6" POP-UP



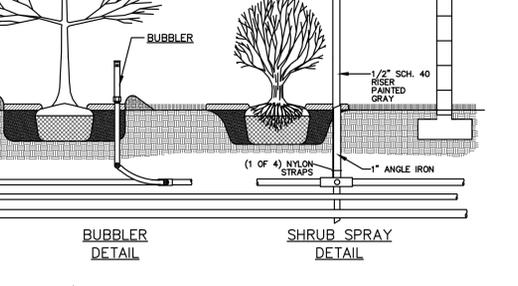
CONTROLLER DETAIL



ELECTRIC VALVE DETAIL



TRENCH DETAIL



6" POP-UP ROTOR DETAIL



BUBBLER DETAIL SHRUB SPRAY DETAIL

6" POP-UP SPRAY DETAIL

6" POP-UP SPRAY DETAIL

NO.	DATE	DESCRIPTION	BY
1	06-17-25	REVISED PER SHARWAD RAI	MRB
2	10-17-25	REVISED PER COUNTY COMMENTS	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
4	01-05-26	ADDED AC PAD AND SIDEWALK	MRB
5	01-28-26	REVISED	MRB

PARKER MYNCHENBERG & ASSOCIATES, INC.
 PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
 1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
 STEVEN R. BUSHNELL, P.E. #53985, R.L.A. #A6667011
 KEVIN A. LEE, P.E. #71501, TANNER J. BANKS, P.E. #102523
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 (386) 677-6891 FAX (386) 677-2114
 CERTIFICATE OF AUTHORIZATION NUMBER 00003910

MIKE'S TIRE WAREHOUSE
 EDGEWATER * FLORIDA
 IRRIGATION DETAILS

10 SHEET NO.
 File No. 25-22
 Drawn By: MRB
 Date: 04/29/25
 SCALE: NONE

STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES

ALL MATERIALS AND INSTALLATION METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).

- ALL STORM SEWERS AND CULVERTS LOCATED IN ROADWAY RIGHTS-OF-WAY AND ROADWAY EASEMENTS SHALL BE A MINIMUM OF 12" DIAMETER PRECAST REINFORCED CONCRETE PIPE. PRIVATE SITES AND AREAS OUTSIDE OF ROADWAY EASEMENTS AND R.O.W., PIPE MAY BE MADE OF ALTERNATE MATERIALS INCLUDING:
 - SMOOTH INNER WALL HIGH DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH AASHTO M-254, AASHTO MPP, ASTM D3535 AND ASTM D2412 FOR SIZES UP TO 42" IN DIAMETER OR
 - PVC IN ACCORDANCE WITH THE PROVISION NOTED IN THE "SEWER DETAILS" OF THESE SPECIFICATIONS.
- ALL STORM SEWER PIPE JOINTS LOCATED IN ROADWAY RIGHTS-OF-WAY AND ROADWAY EASEMENTS SHALL BE ENTIRELY WRAPPED WITH FILTER FABRIC WITH A MINIMUM WIDTH OF 24" AND A MINIMUM OF 24" OVERLAP SECURED WITH PLASTIC OR STAINLESS STEEL BANDS. GASKETS ARE NOT PERMITTED AS AN EQUIVALENT SUBSTITUTE FOR WRAPPING. THIS REQUIREMENT IS REQUIRED ON PRIVATE SITES. ADDITIONALLY, ALL JOINTS SHALL BE RUBBER GASKETED FOR BOTH ROUND AND ELLIPTICAL PIPE.
- DEPTH OF COVER MEASURED TO THE TOP OF PIPE (NOT INCLUDING THE BELL JOINT) SHALL BE A MINIMUM OF 1 FOOT. DEVIATION FROM THIS REQUIREMENT MAY BE ALLOWED BY INCREASING THE PIPE'S STRUCTURAL CAPACITY. THIS DEVIATION MUST BE SPECIFIED ON THE PLANS APPROVED FOR CONSTRUCTION AND SUBSEQUENTLY REFLECTED ON THE SHOP DRAWINGS AND AS-BUILT PLANS.
- ALL STORM DRAINAGE PIPES LOCATED IN ROADWAY RIGHTS-OF-WAY AND ROADWAY EASEMENTS SHALL BE A MINIMUM OF TWELVE INCH (12") DIAMETER OR EQUIVALENT AND BE DESIGNED FOR A MINIMUM OF A TWENTY-FIVE (25) YEAR STORM OF TWENTY-FOUR (24) HOUR DURATION. STORM DRAINAGE PIPES SMALLER THAN 12" ARE PERMITTED ON PRIVATE SITE PLANS PROVIDING THAT MAINTENANCE SHALL BE PERFORMED BY THE OWNER.
- STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE EITHER POURED IN PLACE OR PRECAST REINFORCED CONCRETE. STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE OR CHANGE IN PIPE DIRECTION. ALL STRUCTURES SHALL BE IN COMPLIANCE WITH ASTM C-478 AND SHALL HAVE 8" THICK WALLS. 6" THICK WALLS MAY BE PERMITTED PROVIDING THAT THE PLANS SPECIFY INCREASED REINFORCEMENT IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 201. IN ADDITION, THIS REQUIREMENT MUST BE REFLECTED ON BOTH THE SHOP DRAWING AND AS-BUILT PLANS. NOTE: INLET APRONS MAY REQUIRE EXPANSION JOINTS AROUND THE STRUCTURE AS DICTATED BY THE CITY.
- STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF WITHOUT IMPEDING THE FLOW OF TRAFFIC. FOR ROADWAY SECTIONS WITH DESIGN SPEEDS OF 45 MPH AND LESS AND WITHOUT FULL WIDTH SHOULDERS, SPREAD RESULTING FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR SHALL NOT EXCEED ONE-HALF OF THE TRAVEL LANE ADJACENT TO THE GUTTER. FOR SITE PLANS, INLET SPACING SHALL BE DESIGNED TO ACCEPT ONE HUNDRED (100) PERCENT OF THE RUNOFF FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR WITHOUT RESULTING IN PONDING OF WATER AROUND THE INLET.
- LAKE DEPTHS SHALL BE EIGHT FEET (8') MINIMUM TO TWELVE FEET (12') MAXIMUM, AS MEASURED FROM HIGH WATER MARK. DEEPER MAXIMUM DEPTHS MAY BE APPROVED BY THE CITY ENGINEER.



STANDARD CONSTRUCTION DETAIL
STORM DRAINAGE DESIGN
AND CONSTRUCTION NOTES

2024-07-20

FILE NAME:	EW_ST4.DWG
DETAIL REF:	ST-4

STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES (CONT'D.)

- FOR CONNECTIONS BETWEEN INLETS WITH PIPING 15" IN DIAMETER AND LARGER, THE MAXIMUM DISTANCES BETWEEN INLETS AND / OR CLEAN-OUT JUNCTION BOXES SHALL BE 300 FEET. CULVERTS SHALL BE SLOPED TO MAINTAIN A MINIMUM SELF-CLEANING VELOCITY OF 3 FEET PER SECOND USING A MANNING'S "n" OF 0.012. SPACING FOR CLEAN-OUTS AND INLETS FOR SMALLER PIPING SHALL BE REDUCED AND EVALUATED ON A CASE BY CASE BASIS.
- THE MAXIMUM PERMISSIBLE SLOPE OF ANY NEW SITE GRADING IS 4:1 (HORIZONTAL:VERTICAL). THIS LIMIT SHALL BE APPLIED TO ALL AREAS EXCEPT STORMWATER CONVEYANCE AND TREATMENT SYSTEMS WHICH MAY HAVE A MAXIMUM SLOPE OF 4:1. PERMANENTLY WETTED SOILS 2FT BELOW THE WATER NORMAL WATER TABLE MAY BE SLOPED NO STEEPER THAN 2:1 (H:V).
- ALL DEVELOPMENT SHALL CONTINUE TO ACCOMMODATE EXISTING OFFSITE CONTRIBUTING FLOW AND PASS SUCH QUANTITY TO AN APPROPRIATE DOWNSTREAM PUBLIC CONVEYANCE WITH NO INCREASE IN UPSTREAM STAGE DURING ALL DESIGN STORM EVENTS. ALL FILL SLOPES IN PROXIMITY TO PROPERTY BOUNDARIES SHALL INCLUDE AN INTERCEPTING SWALE AT THE TOE OF SLOPE.
- SWALES THAT ARE NORMALLY DRY AND INTENDED FOR CONVEYANCE OF STORMWATER RUNOFF AND ARE NOT INTENDED FOR RETENTION SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT WIDTH MEASURING 15 FEET. SWALED AREAS INTENDED FOR RETENTION SHALL PROVIDE APPROPRIATE EASEMENT AREAS FOR ACCESS AND MAINTENANCE MEASURED UPLAND FROM THE TOP OF BANK. AT A MINIMUM, THE SAID EASEMENT SHALL MEASURE 10' FEET IN WIDTH FROM THE TOP OF THE SWALE.
- PIPED STORMWATER SYSTEMS SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT WIDTH OF 20 FEET, AND MAY BE INCREASED DEPENDING UPON THE SIZE AND DEPTH OF PIPE.
- NORMAL ROADSIDE SWALES ARE PERMITTED TO BE CONSTRUCTED TO A MAXIMUM DEPTH OF 18" BELOW THE OUTSIDE EDGE OF PAVEMENT OR CONCRETE CURB.
- CONCRETE EROSION CONTROL MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
- WHEN A LAKE IS INCORPORATED WITHIN A SUBDIVISION AND IS ABUTTED BY LOTS, SUCH ABUTTING LOT LINES SHALL BE EXTENDED INTO THE LAKE PROPORTIONATELY ENCOMPASSING ALL OF THE LAKE AREA.
- LAKE INFLOW AND OUTLET STRUCTURES SHALL GENERALLY BE CONSTRUCTED WITH REINFORCED CONCRETE AND SHALL BE SUBJECT TO THE APPROVAL OF THE CITY. SKIMMERS FOR WET PONDS SHALL BE CONSTRUCTED SUCH THAT THE BOTTOM EXTENDS 6" BELOW THE NORMAL WATER LEVEL AND 6" ABOVE THE OVERFLOW. FOR DRY PONDS, THE SKIMMER BOTTOM SHALL BE SET 6" BELOW THE LOWEST OVERFLOW ELEVATION AND 6" ABOVE THE HIGHEST POINT OF OVERFLOW. ALL SKIMMERS SHALL BE CONSTRUCTED OF MINIMUM 1/4" THICK ALUMINUM OR FIBERGLASS ADEQUATELY SUPPORTED TO PREVENT DEFLECTION.



STANDARD CONSTRUCTION DETAIL
STORM DRAINAGE DESIGN
AND CONSTRUCTION NOTES

2024-07-20

FILE NAME:	EW_ST5.DWG
DETAIL REF:	ST-5

STORM DRAINAGE DESIGN AND CONSTRUCTION NOTES (CONT'D.)

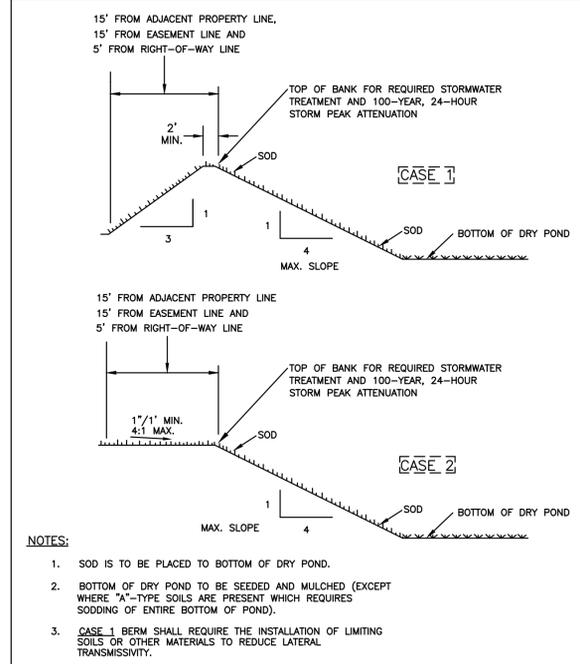
- EROSION AND SEDIMENT CONTROL PLANS AS APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SHALL BE EMPLOYED AT ALL TIMES. AT A MINIMUM, BEST MANAGEMENT PRACTICES (BMP's) SHALL BE UTILIZED.
- THE CITY MAY REQUEST THAT THE DEVELOPER SUBMIT A REPORT BY A QUALIFIED HYDROLOGIST ON THE IMPACT THE LAKE WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS BOTH DURING CONSTRUCTION AND AFTER LAKE COMPLETION. THE CITY MAY REQUIRE GROUNDWATER MONITORING DURING THE LAKE EXCAVATION.
- ADEQUATE MAINTENANCE EASEMENTS OR RIGHTS-OF-WAY AS APPROVED BY THE CITY SHALL BE PROVIDED AROUND THE ENTIRE PERIMETER OF ALL LAKES AND ASSOCIATED OUTFALLS DISCHARGING INTO AND OUT OF LAKES. APPLICABLE CROSS SECTIONS SHALL BE INCLUDED ON ALL FINAL DEVELOPMENT PLANS.
- DEVELOPMENT PLANS FOR ALL STORMWATER MANAGEMENT SYSTEMS SHALL CONTAIN POP-OFF DATA (OVERFLOW), BOTTOM ELEVATION, NORMAL WATER LEVELS, MEAN ANNUAL SEASONAL HIGH WATER TABLE ELEVATION, TREATMENT VOLUME AND CORRESPONDING ELEVATION, 100 YEAR HIGH WATER LEVELS, AND THE DESIGN TAILWATER ELEVATION (IF APPLICABLE).
- IN GENERAL, ALL RETENTION / DETENTION SITES MUST BE CONSTRUCTED ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CONSTRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DEWATERING IS NOT REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ANY AND ALL DEWATERING PERMITS THAT MAY BE REQUIRED.
- WHEN CULVERTS ARE INSTALLED TO MAINTAIN THE FLOW OF EXISTING DRAINAGE SWALES WHERE NEWLY PROPOSED ROADS WOULD OTHERWISE SEVER THE DRAINAGE WAY, THEN CULVERTS CROSSING RIGHTS-OF-WAY SHALL EXTEND FROM RIGHT-OF-WAY LINE TO RIGHT-OF-WAY LINE UNDER THE ROADWAY. CULVERTS SHALL BE DESIGNED TO ACCOMMODATE THE FLOW FROM THE 100 YEAR - 24 HOUR STORM EVENT WITHOUT FLOODING ADJACENT PROPERTY OR SURCHARGING THE SAID ROADWAY.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND MAINTAIN A COPY OF THE SURVMD PERMIT AND/ OR NPDES CONSTRUCTION PERMIT AT THE CONSTRUCTION SITE, AND ABIDE BY ALL CONDITIONS OF THE PERMIT.
- 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.
- ALL STRUCTURES SHALL BE GRADED TO HAVE POSITIVE RUNOFF PATTERNS TOWARD A STORMWATER COLLECTION AND MANAGEMENT SYSTEM. ALL NEW BUILDING SHALL BE TYPE "A" OR TYPE "B" GRADING. TYPES "C" & "D" GRADING SHALL ONLY BE APPROVED FOR RETROFITS. SEE DETAIL ST-14 FOR TYPICAL LOT GRADING.



STANDARD CONSTRUCTION DETAIL
STORM DRAINAGE DESIGN
AND CONSTRUCTION NOTES

2024-07-20

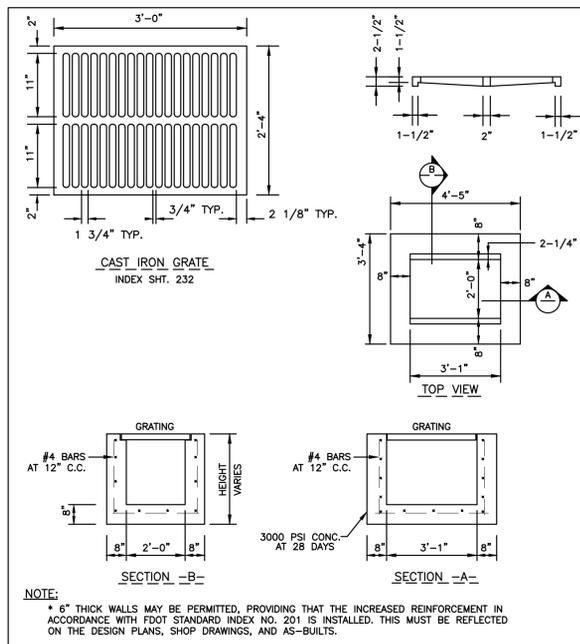
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DETAIL REF:	ST-6




STANDARD CONSTRUCTION DETAIL
DRY RETENTION POND
PLACEMENT BY R/W AND EASEMENT LINES

2024-07-20

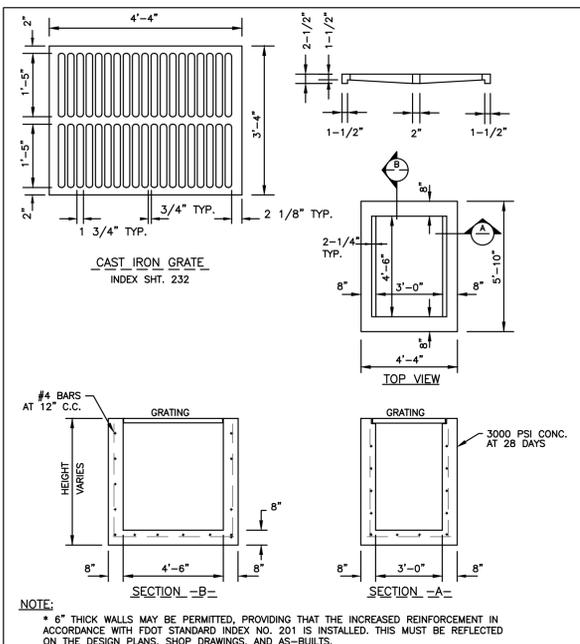
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STANDARD CONSTRUCTION DETAIL
TYPE "C" STORM INLET

2024-07-20

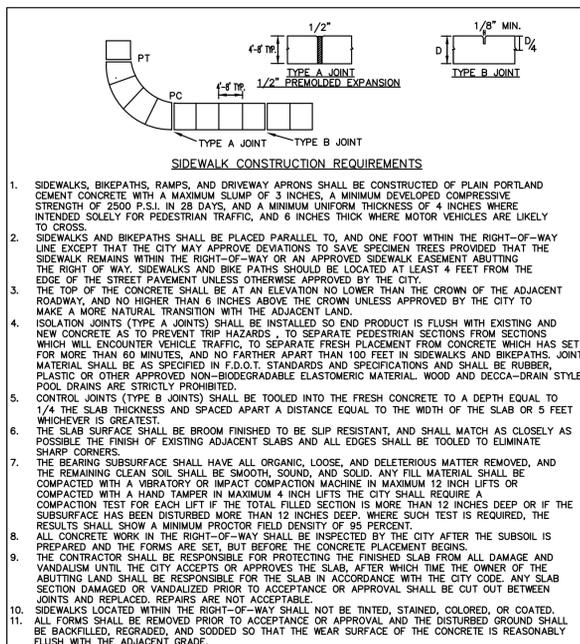
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STANDARD CONSTRUCTION DETAIL
TYPE "E" STORM INLET

2024-07-20

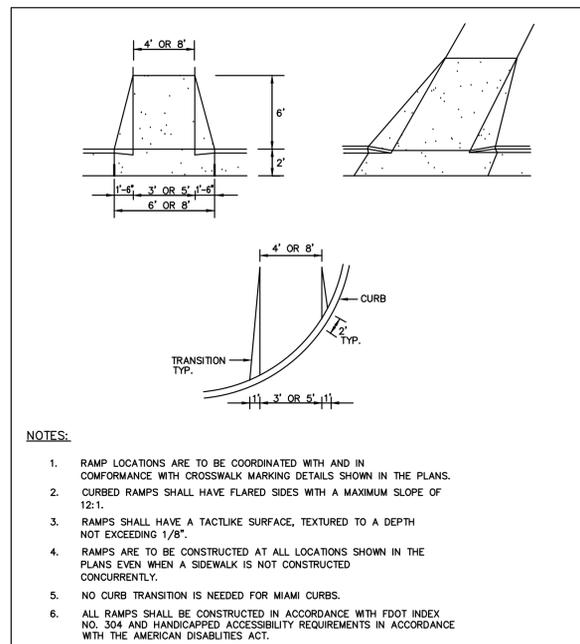
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DETAIL REF:	ST-12




STANDARD CONSTRUCTION DETAIL
SIDEWALK CONSTRUCTION REQUIREMENTS

2024-07-20

FILE NAME:	EW_M2.DWG
DETAIL REF:	M-2




STANDARD CONSTRUCTION DETAIL
SIDEWALK AND BIKEPATH RAMP

2024-07-20

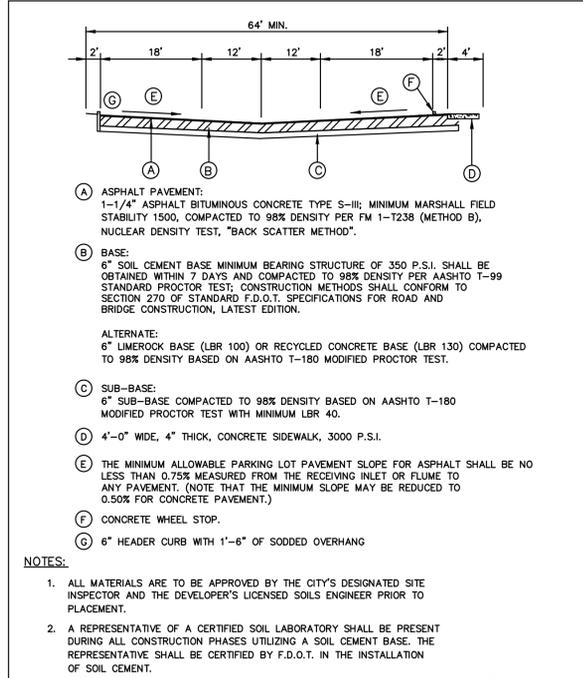
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NO.	DATE	DESCRIPTION	BY
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4	01-05-26	REVISED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
2	10-17-25	REVISED PER SURVMD RAI	MRB
1	06-17-25	REVISED	MRB

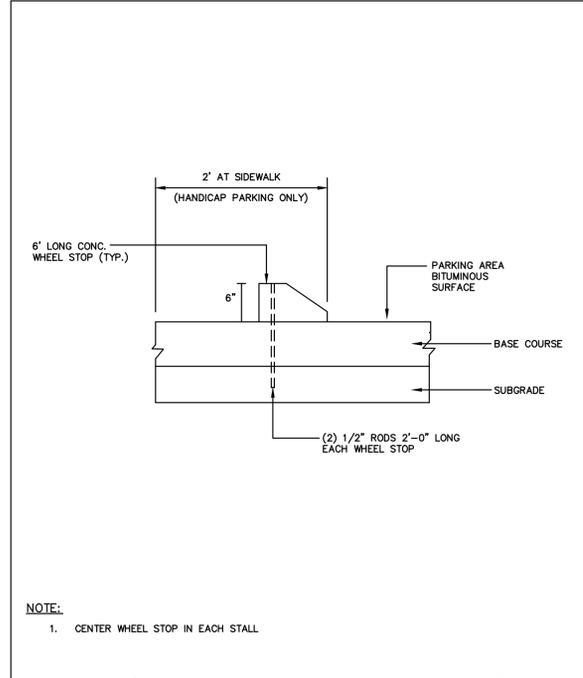
PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
STEVEN R. BUSWELL, P.E. #53985, R.L.A. #A6667011
KEVIN A. LEE, P.E. #71501, TANNER A. BANKS, P.E. #102523
E-MAIL: info@parkermychenberg.com
FAX: (386) 677-2114
CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

MIKE'S TIRE WAREHOUSE
EDgewater * FLORIDA

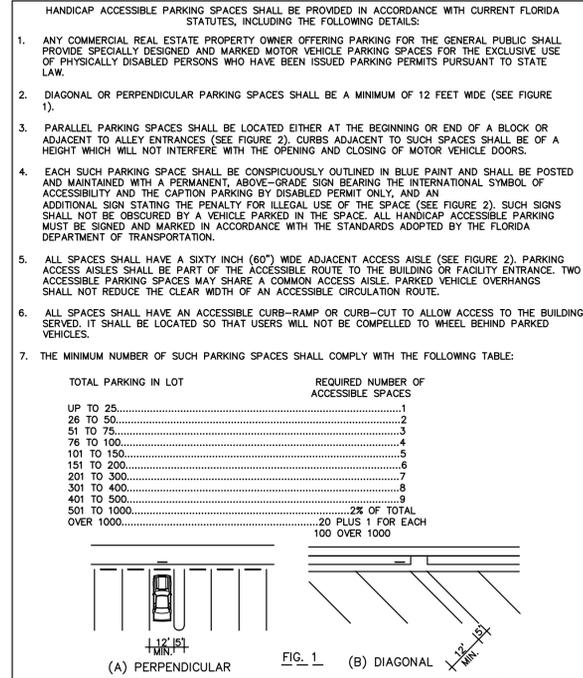
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File No. 25-22
Drawn By: MRB
Date: 04/29/25
SCALE: NONE



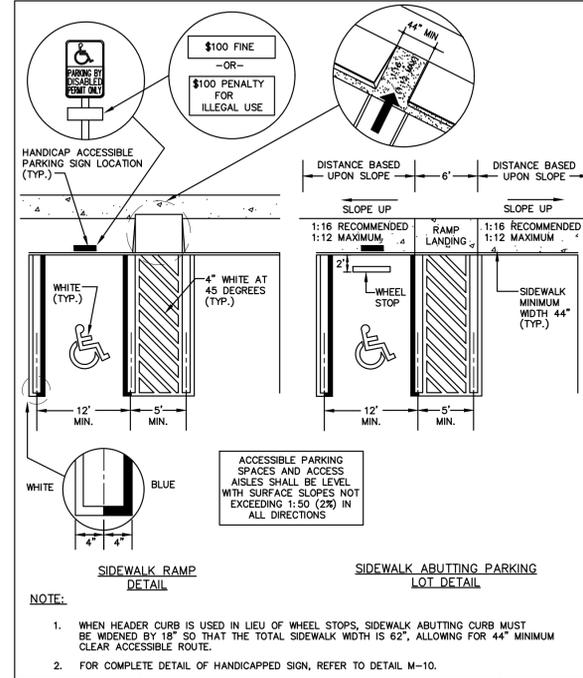
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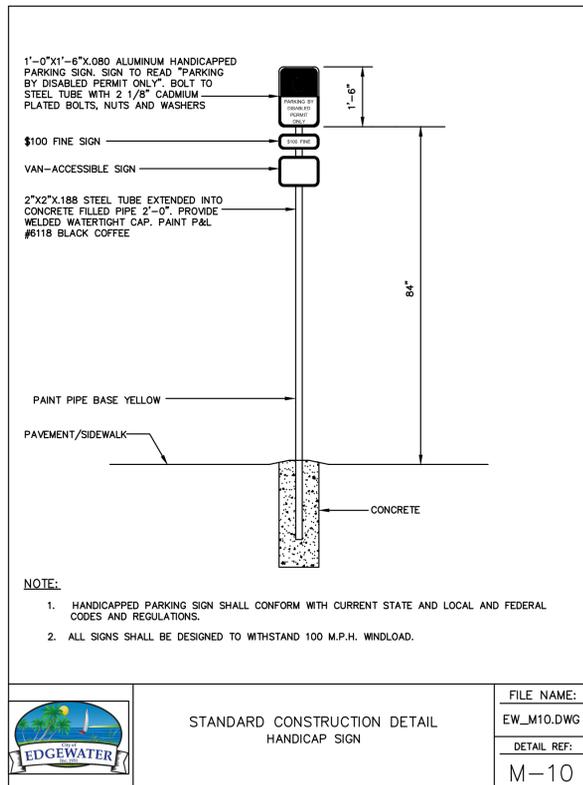
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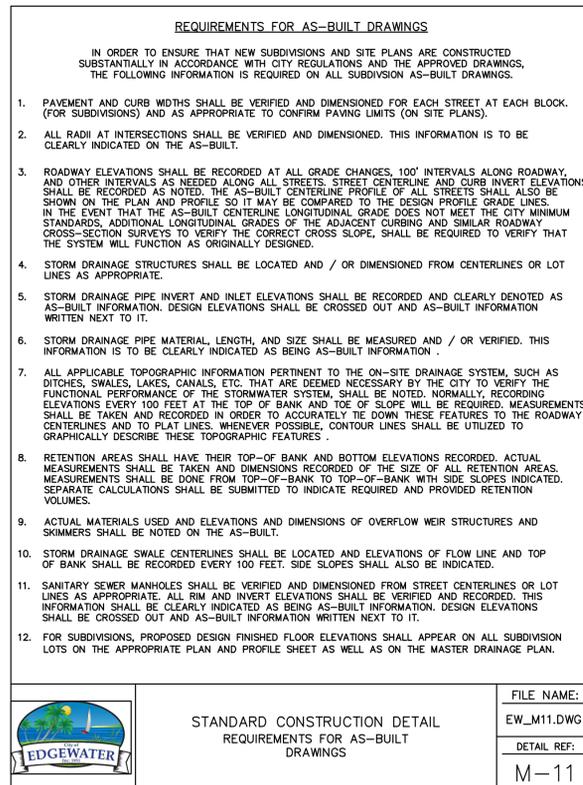
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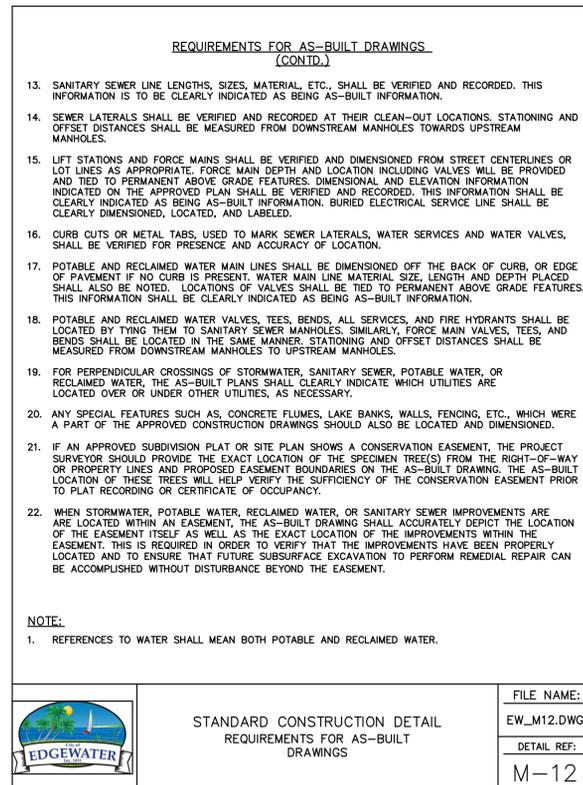
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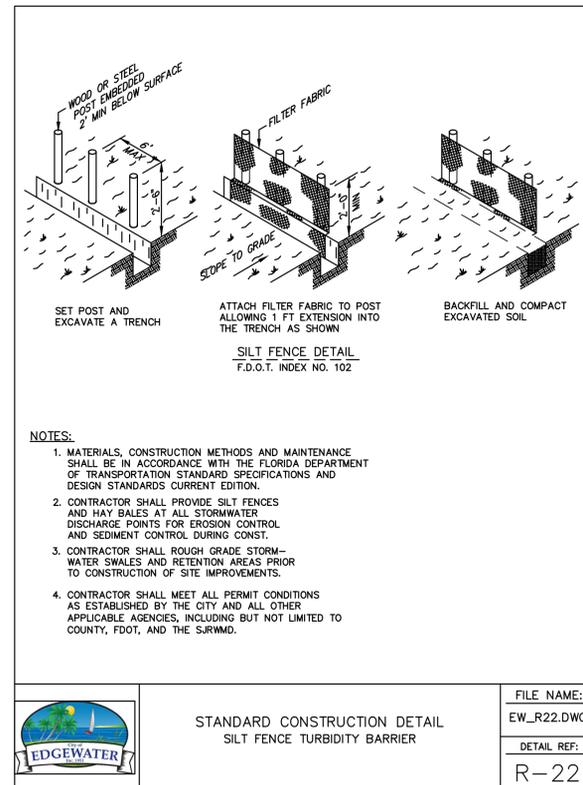
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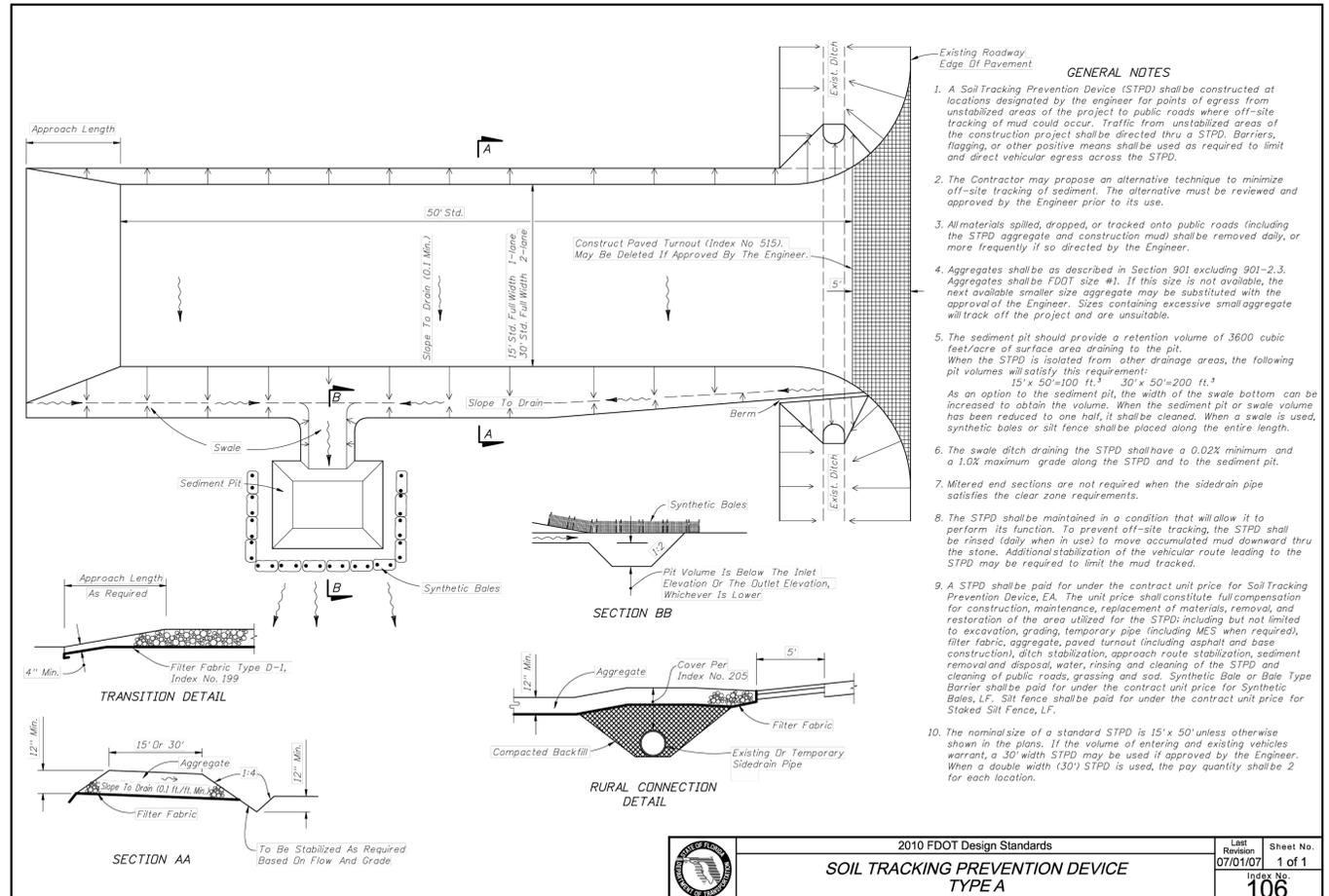
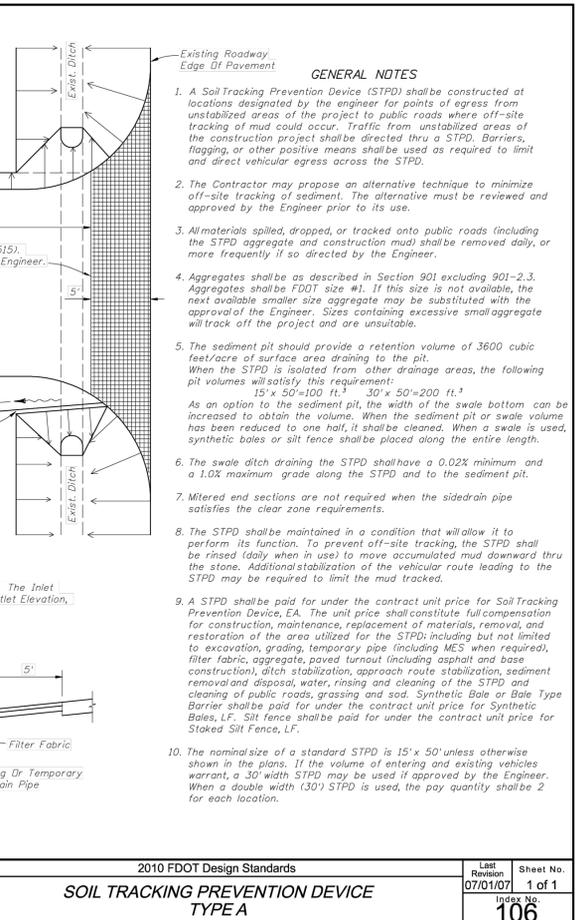
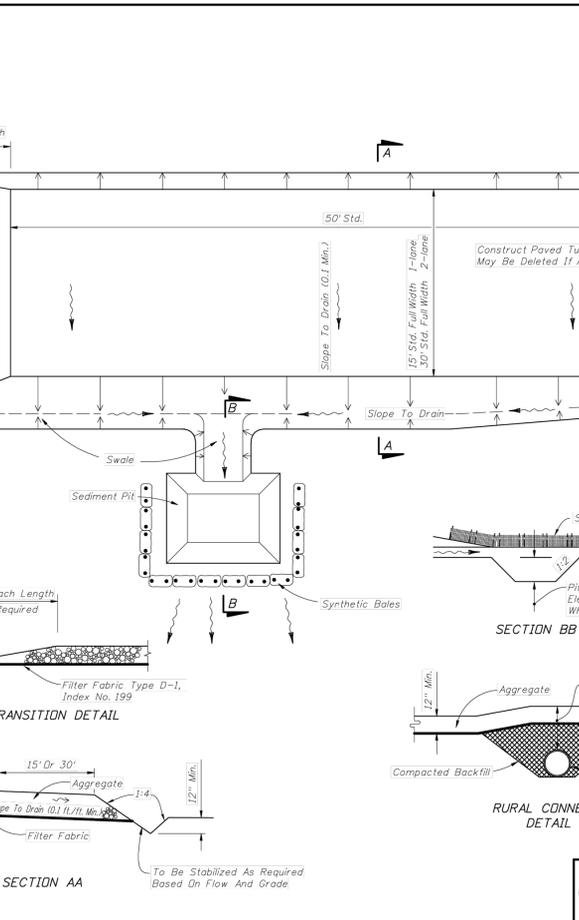
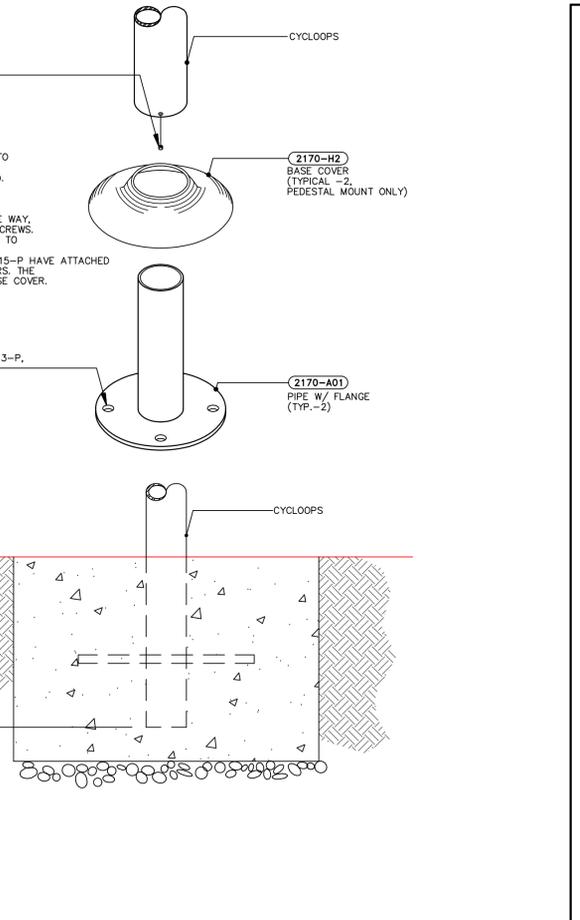
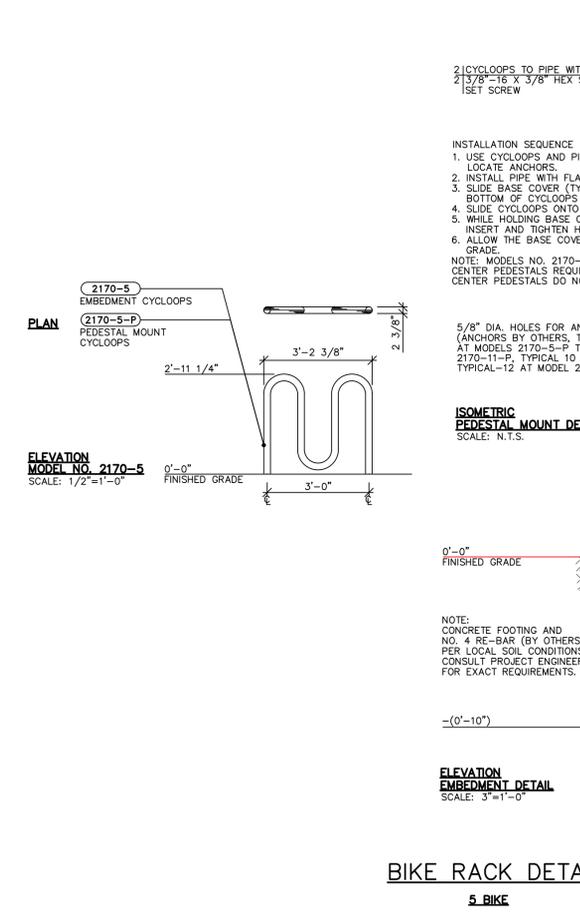
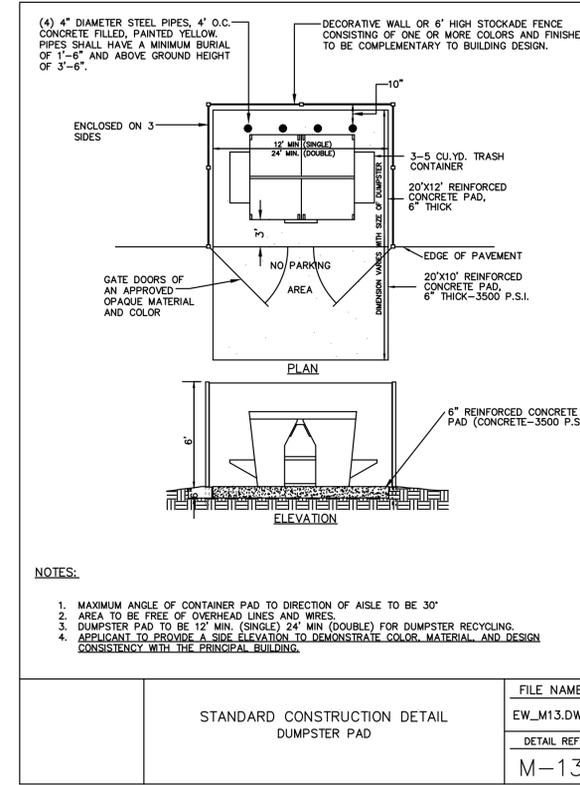
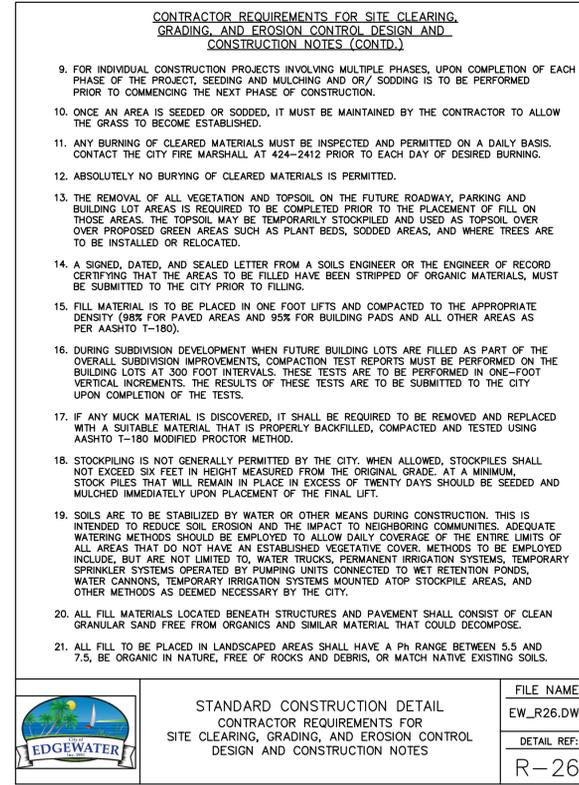
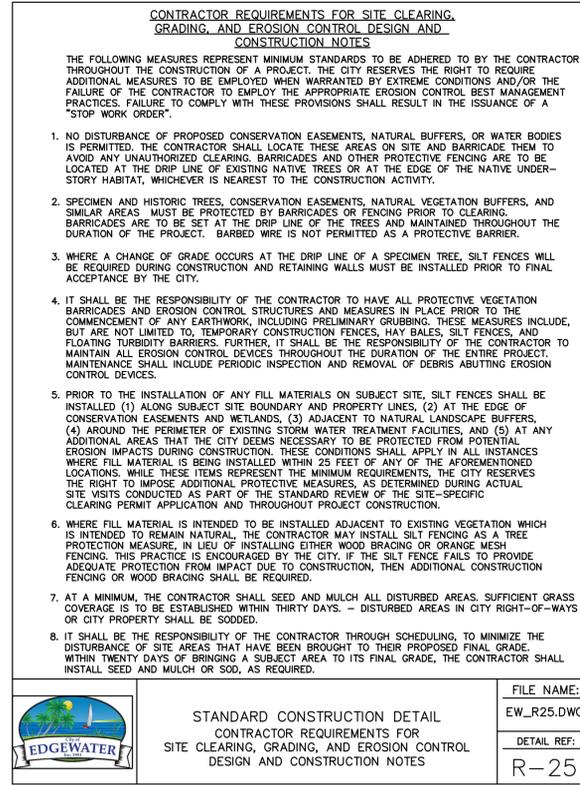
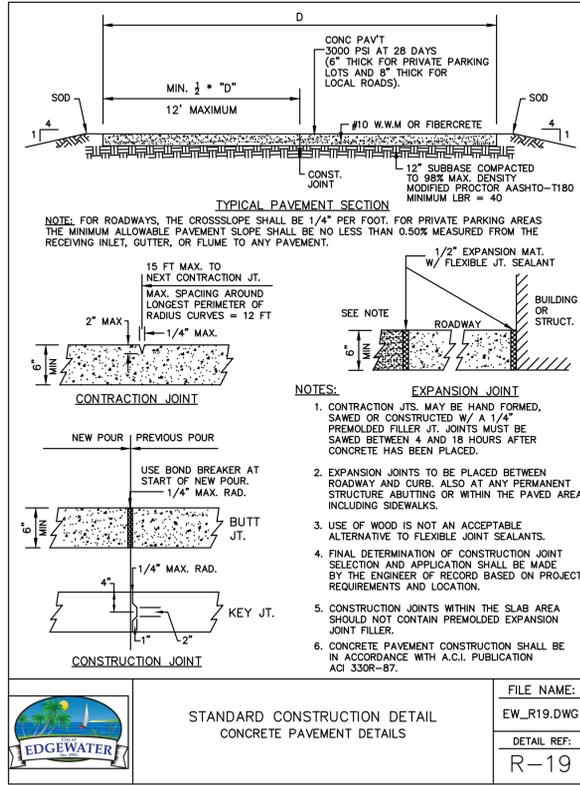


	FILE NAME:	EW_R22.DWG
	DETAIL REF:	R-22

MRB	REVISED	
MRB	ADDED AC PAD AND SIDEWALK	
MRB	REVISED PER COUNTY COMMENTS	
MRB	REVISED PER SJRWMD RAI	
MRB	REVISED	
BY	DESCRIPTION	NO. DATE

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CERTIFICATE OF AUTHORIZATION NUMBER 00003910

MIKE'S TIRE WAREHOUSE	EDGEMASTER • FLORIDA
PAVING AND DRAINAGE DETAILS	
12	
SHEET NO.	
File No. 25-22	Drawn By: MRB
Date: 04/29/25	SCALE: NONE
SEAL	



PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
STEVEN R. BUSWELL, P.E. #53985, R.L.A. #A6667011
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MIKE'S TIRE WAREHOUSE
EDgewater • Florida

PAVING AND DRAINAGE DETAILS

13 SHEET NO.

File No. 25-22

Drawn By: MRB

Date: 04/29/25

SCALE: NONE

SEAL

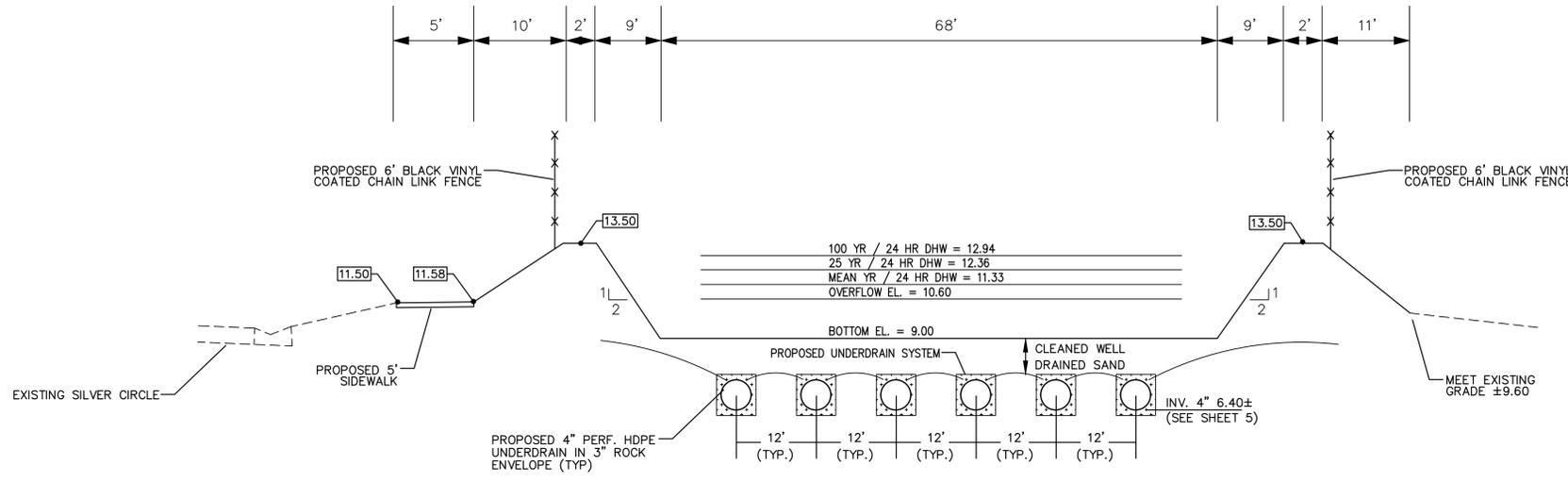
NO.	DATE	DESCRIPTION	BY
5	01-26-26	REVISED	MRB
4	01-03-26	ADDED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
2	10-17-25	REVISED PER SARWMD RAI	MRB
1	06-17-25	REVISED	MRB
		REVISIONS	BY

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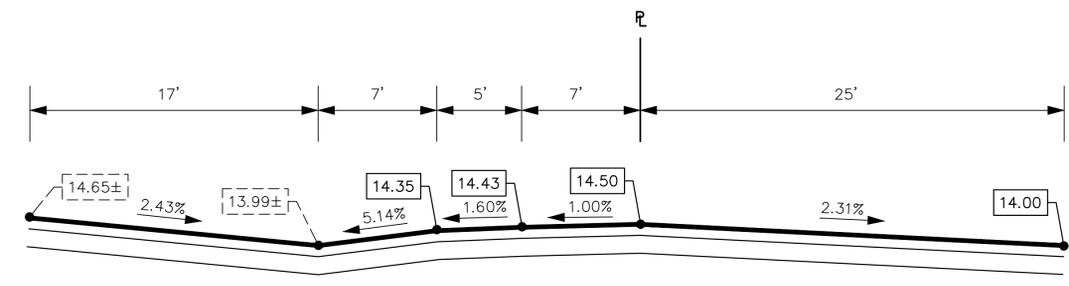
MIKE'S TIRE WAREHOUSE
 EDGEWATER * FLORIDA
 PAVING AND DRAINAGE DETAILS

14
 SHEET NO.
 File No. 25-22
 Drawn By: MRB
 Date: 04/29/25
 SCALE: NONE

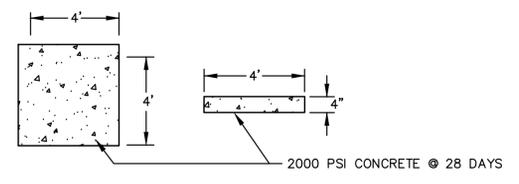
SEAL



SECTION A-A

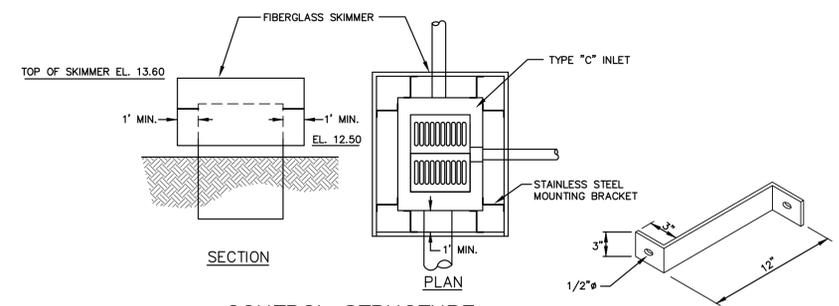


SECTION B-B

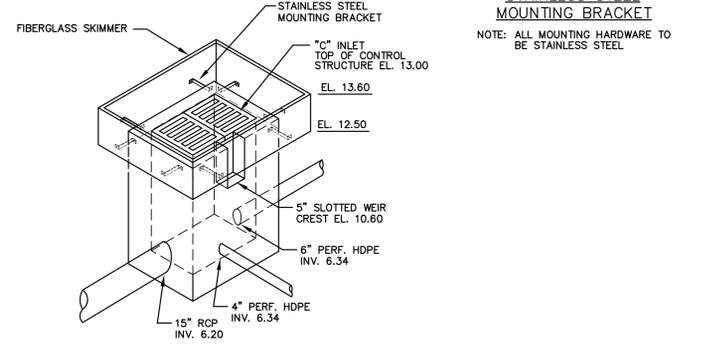


4'x4'x4" SPLASH PAD DETAIL

NOTE:
 A PRECAST SPLASH PAD MAY BE SUBSTITUTED
 INLIEU OF A CAST IN PLACE SPLASH PAD.



CONTROL STRUCTURE



C-INLET #7 CONTROL STRUCTURE DETAIL

POTABLE WATER DESIGN AND CONSTRUCTION NOTES

- THE CITY'S PUBLIC UTILITIES DEPARTMENT (424-2460) SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY POTABLE WATER SYSTEM CONSTRUCTION.
- DEWATERING SHALL BE PROVIDED TO KEEP GROUNDWATER ELEVATION A MINIMUM OF 6 INCHES BELOW WATER MAIN BEING LAID.
- ALL WATER MAINS SHALL BE LAID ON A FIRM FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
- TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY WITH A MINIMUM COMPACTION OF 98% IN PAVED AREAS AND 95% IN UNPAVED AREAS IN ACCORDANCE WITH AASHTO T-180.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT TRENCH COMPACTION TESTS BE PROVIDED AT POINTS 1 FOOT ABOVE THE PIPE AND AT 1 FOOT VERTICAL INTERVALS TO FINISH GRADE, AT A MINIMUM SPACING OF EVERY 300 FEET.
- 3" METALLIZED PIPE LOCATION TAPE SHALL BE LOCATED BETWEEN 15" AND 24" BELOW FINISHED GRADE OR AS SPECIFIED BY MANUFACTURER FOR ALL PVC LINES. MARKER TAPE SHALL BE USED ON ALL DUCTILE IRON PIPE, AND 12 GAUGE TRACING WIRE AS WELL.
- ALL SINGLE RESIDENTIAL WATER SERVICES SHALL BE 3/4", DOUBLE RESIDENTIAL SERVICES SHALL BE 1" AND COMMERCIAL SERVICES 1-1/2" OR 2". POLYETHYLENE TUBING SHALL BE USED, IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
POLYETHYLENE TUBING SHALL BE CTS 3408 HIGH DENSITY TUBING, BLUE IN COLOR, AND RATED FOR A MINIMUM OF 200 P.S.I. WITH SDR OF 9 (CTS). THE TUBING SHALL HAVE A VIRGIN HIGH DENSITY POLYETHYLENE CENTER FOR WHICH THE MANUFACTURER SHALL FURNISH A CERTIFICATE OF PURITY. THE TUBING SHALL HAVE UV PROTECTION AND SHALL NOT BE AFFECTED BY DIRECT SUNLIGHT. THE TUBING SHALL COMPLY WITH OR EXCEED THE APPLICABLE STANDARDS OF A.S.T.M. D1248, D3350, D2239, D2737, N.S.F. 14 AND A.W.W.A. C901 AND SHALL COME WITH A LIFETIME WARRANTY.
ACCEPTABLE MANUFACTURERS: ENDOT ENDO PURE OR APPROVED EQUAL.
- ALL WATER SERVICE ENDINGS SHALL BE MARKED WITH A 2" X 4" LUMBER (PRESSURE TREATED) EXTENDING 4 FEET ABOVE GRADE, WITH WATER SERVICES SECURED 12" MAXIMUM ABOVE THE GROUND AND ANY "U" BRANCHES FOR DOUBLE SERVICES SHALL BE AT GROUND LEVEL. ALL SERVICES SHALL BE LOCKED.
- WATER VALVES SHALL BE PLACED AT ALL STREET INTERSECTIONS AND AT MAXIMUM SPACINGS OF 750 FEET.
- AT ALL WATER MAIN TEES AND CROSSES, VALVES SHALL BE INSTALLED ON ALL LEGS EXCEPT ONE.
- APPROVED WATER VALVE TYPES ARE THE FOLLOWING:
A. RESILIENT SEAT GATE VALVES 24" DIAMETER AND SMALLER (AWWA C-509)
B. BUTTERFLY VALVES GREATER THAN 24" (AWWA C-504)
C. TAPPING VALVES WITH MECHANICAL TAPPING SLEEVE.
- ALL WATER VALVES SHALL BE ADJUSTED TO FINISHED GRADE WITH CONCRETE COLLARS AND THE CAPS PAINTED BLUE TO MAKE THEM PLAINLY VISIBLE.
- UPON FINAL ACCEPTANCE OF NEW WATER SYSTEMS, WATER VALVES SHALL BE COMPLETELY OPENED BY PUBLIC UTILITIES PERSONNEL. AT NO TIME SHALL CONTRACTOR OPERATE ANY EXISTING VALVES.
- TYPICALLY, A MINIMUM OF ONE FIRE HYDRANT SHALL BE LOCATED AT EVERY INTERSECTION. OTHER FIRE HYDRANTS SHALL BE LOCATED SO AS TO PRODUCE A MAXIMUM 375 FEET HOSE LAY ALONG THE STREET FOR ALL RESIDENTIAL BUILDINGS.



STANDARD CONSTRUCTION DETAIL
POTABLE WATER DESIGN AND
CONSTRUCTION NOTES

FILE NAME:	EW_W22.DWG
DETAIL REF:	W-22

POTABLE WATER DESIGN AND CONSTRUCTION NOTES (CONTD.)

- ALL FIRE HYDRANTS SHALL BE CONSTRUCTED TO MAKE THEM EASILY ACCESSIBLE TO FIRE PERSONNEL IN CASE OF A FIRE. THE PRIMARY HYDRANT PORT SHOULD ALWAYS FACE THE STREET.
- AS STANDARD PRACTICE, WATER MAINS SHALL BE INSTALLED 4 FEET OFF THE BACK OF CURB OR AS APPROVED BY THE CITY.
- ALL WATER MAINS SHALL BE NSF-APPROVED FOR POTABLE WATER USE, AND SHALL HAVE A MINIMUM COVER OF 36 INCHES.
- ALL PROPOSED WATER MAINS SHALL BE FLUSHED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS.
- WATER MAINS SHALL BE C-900 PVC OR C-905 CL 150 (COLOR/BLUE) OR D.I.P. PRESSURE CLASS 350 STANDARD CEMENT LINED UNLESS OTHERWISE APPROVED BY THE CITY.
- 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 DEPARTMENT OF HEALTH AND AS-BUILTS ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THIS SYSTEM.
- WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE CITY'S FIRE (WATER) FLOW CODE.
- IN AREAS WHERE RECLAIMED WATER IS NOT AVAILABLE THE CONTRACTOR SHALL BE REQUIRED TO (UPON SATISFACTORY COMPLETION OF THE PRESSURE TEST) TRANSFER THE WATER FROM THE POTABLE WATER LINES TO THE RECLAIMED WATER LINES FOR UTILIZATION IN THEIR PRESSURE TEST.
- IN AREAS WHERE RECLAIMED WATER IS AVAILABLE, RECLAIMED WATER WILL BE UTILIZED IN THE PRESSURE TESTING OF NEW RECLAIMED WATER LINES.
- ALL POTABLE WATER MAINS SHALL USE A THRUST RESTRAINT JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) GUIDELINES. IN THE EVENT THAT PVC FITTINGS ARE SPECIFIED, THE RESTRAINT SHALL BE MODIFIED IN ACCORDANCE WITH THE RECOMMENDED ADDITIONAL RESTRAINT LENGTH REQUIRED FOR PIPE WRAPPED WITH POLYETHYLENE.
- MEGALUGS, BOLTLESS RESTRAINED JOINTS, GRIPPER GASKETS, OR STAR GRIPS SHALL BE USED ON ALL RESTRAINED JOINT INSTALLATIONS. MINIMUM DEPTH OF BURY ON PIPES NOT MEETING REQUIRED COVER REQUIREMENTS SHALL FOLLOW THE MOST RECENT DIPRA THRUST RESTRAINT DESIGN GUIDELINES.
- GRIPPER RING GASKETS BY ROMAC AND OR STAR AU-GRIP MAY BE USED AS APPROPRIATE FOR RESTRAINED PRESSURE PIPE TO FITTINGS, VALVES, ETC.
- WATER SYSTEMS SHALL BE PRESSURE TESTED AT 150 PSI STATIC PRESSURE FOR A PERIOD OF 4 HOURS PER AWWA STANDARDS.
- ALL WATER SERVICES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB AND METAL TABS SET INTO THE PAVEMENT.
- ALL WATER VALVES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB AND METAL TABS SET INTO THE PAVEMENT. BLOW-OFFS SHALL BE MARKED SIMILARLY, AS WELL.
- WATER SERVICES SHALL BE NORMALLY DOUBLE 1" SERVICES LOCATED AT SIDE LOT LINES. IN INSTANCES WHERE SERVICES NEED TO BE OFFSET, 3/4" SINGLE SERVICES SHALL BE SPECIFIED. THESE SERVICES MAY BE OFFSET A MAXIMUM OF 2'0" FROM SIDE LOT LINES.
- ALL TAPPING OF MAINS SHALL BE SUPERVISED BY THE CITY SCHEDULING OF THESE CONNECTIONS SHALL REQUIRE A MINIMUM 48 HOUR NOTIFICATION (MEASURED ON NORMAL WORK DAYS) DIRECTED TO THE CITY'S DESIGNATED SITE INSPECTOR. THE CONNECTION SHALL BE SCHEDULED TO COMMENCE BETWEEN 8:00 A.M. AND NOON ON THE APPROPRIATE DAY.



STANDARD CONSTRUCTION DETAIL
POTABLE WATER DESIGN AND
CONSTRUCTION NOTES

FILE NAME:	EW_W23.DWG
DETAIL REF:	W-23

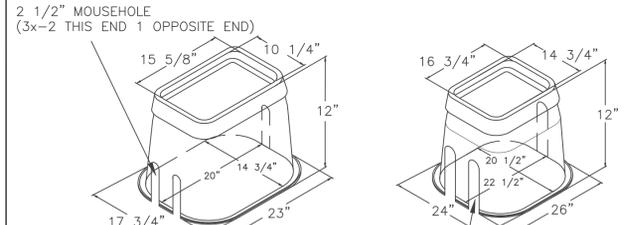
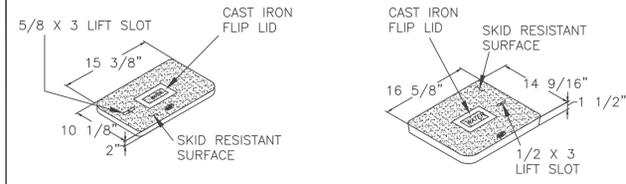
POTABLE WATER DESIGN AND CONSTRUCTION NOTES (CONTD.)

- ALL PROPOSED POTABLE WATER MAINS SHALL BE FLUSHED, DISINFECTED, PRESSURE TESTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE WHEN APPROPRIATE 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 WATER TREATMENT PLANT AT LEAST 48 HOURS PRIOR TO BEGINNING FLUSH OF THE MAINS PRIOR TO THE COMMENCEMENT OF PRESSURE TESTING.
- THE CONTRACTOR SHALL BE REQUIRED TO DIG ALL POTABLE MAINS IN EXCESS OF 8" IN DIAMETER AND PRIMARY DISTRIBUTION MAINS LOCATED ON COLLECTOR AND ARTERIAL ROADWAYS. LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR.
- WITH RESPECT TO TIE-IN CONNECTIONS, 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.
- ALL WORK PERFORMED UPON POTABLE WATER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY AN UNDERGROUND UTILITY CONTRACTOR OR GENERAL CONTRACTOR LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
- FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION THE PROPOSED LOCATIONS OF ALL WATER MAINS MEASURED FROM THE BACK OF CURB (OR EDGE OF PAVEMENT, IF NO CURB IS USED).
- POTABLE WATER SYSTEM EXTENSIONS MAY NOT BE USED PRIOR TO FINAL TESTING, CLEARANCE AND ACCEPTANCE BY THE CITY OF EDGEWATER. THIS INCLUDES CONSTRUCTION WATER REQUIRED FOR SEWER LINE CLEANING OR RELATED USES.
- ALL H.D.P.E. PIPE UTILIZED FOR WATER, FORCE MAIN AND/OR RECLAIMED WATER MAIN EXTENSIONS SHALL BE S.D.R. 11 UNLESS SPECIFICALLY NOTED OTHERWISE. THE HOPE PIPE SHALL BE SIZED TO MATCH THE EXTERNAL DIAMETER OF THE PVC OR DIP PIPE TO WHICH IT IS ATTACHED.
- 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.
- ALL VALVES 2" AND LARGER SHALL BE STANDARD 2" BOX VALVES (CORP STOPS ARE NOT ACCEPTABLE).
- WHERE POTABLE WATER AND SANITARY SEWER MAINS CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL CLEARANCE OR WHERE THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SEWER MAIN SHALL BE ENCASED WITH CONCRETE OR ENCLOSED IN A WATER TIGHT CARRIER PIPE, OR UPGRADED TO DUCTILE IRON PIPE OR PRESSURE RATED PVC PIPE (MEETING THE AWWA C-900 OR C905 SPECIFICATION) FOR A MINIMUM LENGTH OF (20) FEET, CENTERED ON THE POINT OF CROSSING. A MINIMUM HORIZONTAL SEPARATION OF (10) TEN FEET (EDGE TO EDGE) BETWEEN POTABLE WATER MAINS AND SEWER MAINS SHALL BE MAINTAINED WHEN AT ALL POSSIBLE. WHEN THE 10-FOOT HORIZONTAL SEPARATION CANNOT BE MAINTAINED THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE AT LEAST 18" ABOVE THE SEWAGE MAIN. ALTERNATIVELY, THE SEWER MAIN SHALL BE ENCASED WITH CONCRETE OR ENCLOSED IN A WATER TIGHT CARRIER PIPE, OR UPGRADED TO DUCTILE IRON PIPE OR PRESSURE RATED PVC PIPE (MEETING THE AWWA C-900 OR C-905 SPECIFICATION) AND PRESSURE TESTED.



STANDARD CONSTRUCTION DETAIL
POTABLE WATER DESIGN AND
CONSTRUCTION NOTES

FILE NAME:	EW_W24.DWG
DETAIL REF:	W-24



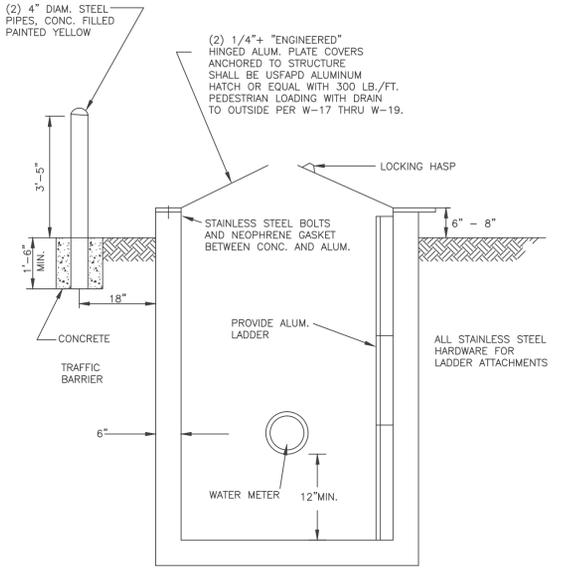
SINGLE SERVICE USE
WA00-1015-12TR-0080

DOUBLE SERVICE USE
WA00-1517-12TR2-0047



STANDARD CONSTRUCTION DETAIL
VALVE BOX
SINGLE AND DOUBLE SERVICE

FILE NAME:	EW_W26.DWG
DETAIL REF:	W-26



- NOTES:
- BOX SHOULD BE SIZED TO MATCH PROPOSED METER SIZE REQUIREMENTS.
 - VERIFY ACTUAL METER BOX DIMENSIONS WITH CITY PRIOR TO ORDERING AND/OR INSTALLATION.



STANDARD CONSTRUCTION DETAIL
WATER METER BOX
(METER 3" AND LARGER SIZES)

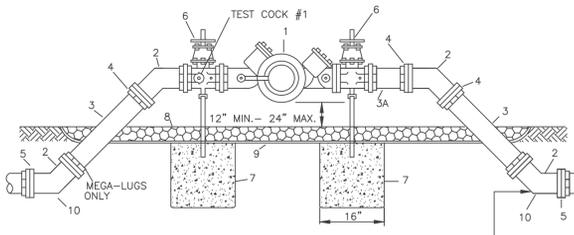
FILE NAME:	EW_W8.DWG
DETAIL REF:	W-8

METER TYPE	SIZE	MINIMUM (INCHES) METER BOX SIZES			BROOKS EQUIVALENT
		A	B	C	
TURBINE	3"	60	48	60	SERIES 666 W/6" FLOOR
	4"	60	48	60	"
	6"	60	60	60	"
COMPOUND	8"	60	60	60	"
	3"	60	48	66	"
	4"	60	48	66	"
F.M.	6"	60	60	72	"
	3"	72	48	60	"
	4"	72	48	60	"
	6"	78	66	60	M-88 SERIES W/6" FLOOR & 12" COVER
	8"	84	72	66	"



STANDARD CONSTRUCTION DETAIL
3" - 8" WATER METER BOX

FILE NAME:	EW_W9.DWG
DETAIL REF:	W-9



REDUCED PRESSURE BACKFLOW PREVENTER SINGLE SERVICE: 3", 8"

ALL 45° BENDS CAN BE REPLACED WITH 90° BENDS

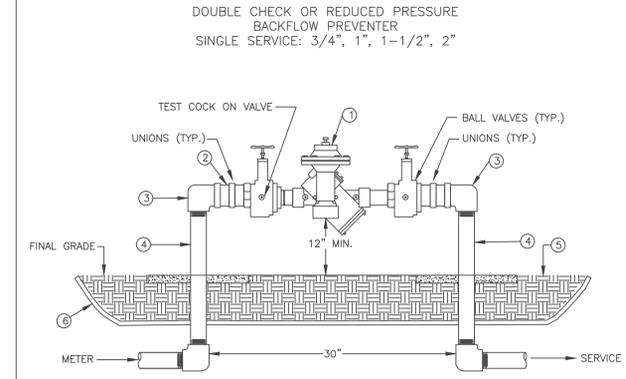
M A T E R I A L S		
ITEM	QUANT.	DESCRIPTION
1	1	3", 8" VALVE, REDUCED PRESSURE PRINCIPLE
2	4	3", 8" BEND - 45°
3	2	3", 8" ADAPTER, C.I. F - PE
3A	1	3", 8" ADAPTER, C.I. F - PE (OPT.)
4	3	3", 8" ADAPTER FLANGE D.I.P.
5	2	3", 8" ADAPTER FLANGE P.V.C. (DR - 18)
6	2	3", 8" VALVE, GATE, C.I., F-F
7	1 or 2	IRON PIPE/CONCRETE FOUNDATION
8	*	PEA GRAVEL
9	*	PLASTIC LINER
10	2	MJ 45° OR 90° MEGALUG OR RESTRAINED JOINT

- NOTES:
- FIELD ADJUST AND CUT ITEM 3 TO THE PROPER LENGTH.
 - DO NOT INTERCHANGE ITEMS 4 AND 5.
 - ALL COMMERCIAL PROPERTIES ARE REQUIRED BY ORDINANCE TO HAVE A BACKFLOW DEVICE INSTALLED AND ANNUALLY TESTED WITH PASSING RESULTS FORWARDED TO THE CITY ENVIRONMENTAL SERVICES DEPARTMENT.



STANDARD CONSTRUCTION DETAIL
BACKFLOW PREVENTER
(REDUCED PRESSURE) 3" - 8"

FILE NAME:	EW_W10.DWG
DETAIL REF:	W-10



DOUBLE CHECK OR REDUCED PRESSURE BACKFLOW PREVENTER SINGLE SERVICE: 3/4", 1", 1-1/2", 2"

M A T E R I A L S		
ITEM	QUANT.	DESCRIPTION
1.	1	2" BACKFLOW PREVENTER ASSEMBLY
2.	2	2" X NOM. NIPPLES - BRASS
3.	2	2" X 90° ELBOWS - GALV. / HARD "K" COPPER
4.	2	2" X VARIES RISER - GALV. / HARD "K" COPPER / SCH 80 PVC / BRASS
5.	*	PEA GRAVEL
6.	*	PLASTIC LINER

- NOTES:
- INSTALLATION SHOWN ABOVE IS FOR A 2" SERVICE. CHANGE PIPING MATERIALS ACCORDINGLY FOR SERVICE SIZE.
 - CONTACT ADMINISTRATION OFFICE AT 424-2460 FOR LIST OF APPROVED DEVICES.



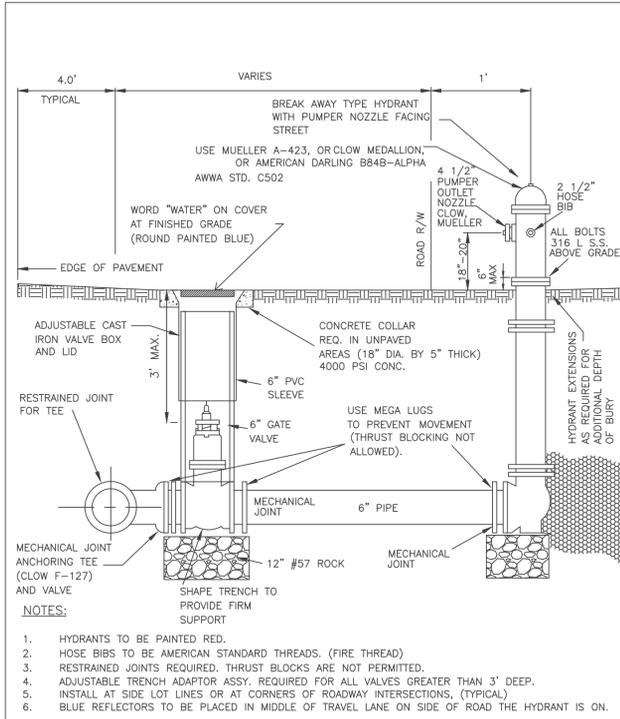
STANDARD CONSTRUCTION DETAIL
2" BACKFLOW PREVENTER

FILE NAME:	EW_W11.DWG
DETAIL REF:	W-11

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MIKE'S TIRE WAREHOUSE
EDGEWATER * FLORIDA
WATER SYSTEM DETAILS

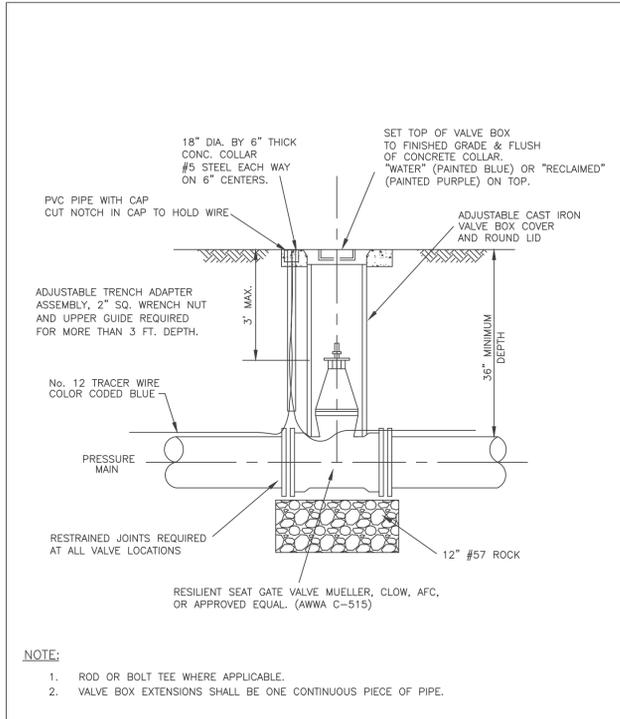
15
SHEET NO.
File No. 25-22
Drawn By: MRB
Date: 04/29/25
SCALE: NONE



FILE NAME: EW_W1.DWG
 DETAIL REF: W-1

STANDARD CONSTRUCTION DETAIL
 FIRE HYDRANT ASSEMBLY

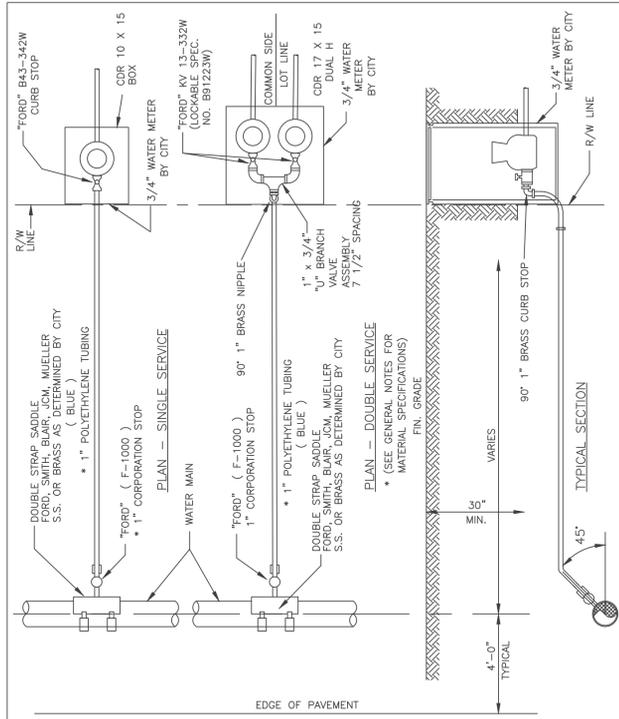
EDGEWATER
 2017-10-24



FILE NAME: EW_W2.DWG
 DETAIL REF: W-2

STANDARD CONSTRUCTION DETAIL
 POTABLE WATER AND/OR RECLAIMED WATER
 VALVE AND VALVE BOX
 (2" - 16" VALVE SIZES)

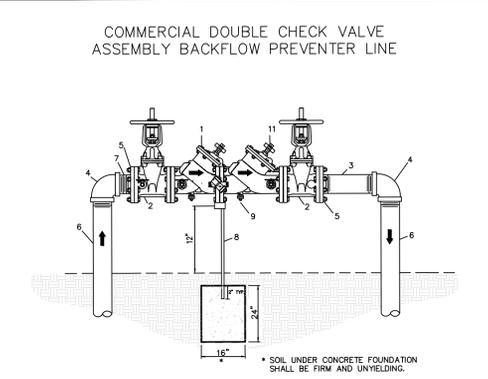
EDGEWATER
 2017-10-24



FILE NAME: EW_W5.DWG
 DETAIL REF: W-5

STANDARD CONSTRUCTION DETAIL
 WATER LATERAL SERVICE
 (3/4" - 2" SIZES)

EDGEWATER
 2017-10-24



COMMERICAL DOUBLE CHECK VALVE
 ASSEMBLY BACKFLOW PREVENTER LINE

ITEM	QUANT.	DESCRIPTION
1	1	VALVE, DOUBLE CHECK BACKFLOW PREVENTER
2	2	VALVE, GATE, C.I., F-F
3	1	NIPPLE (2" TO 3" GALV.) (DIP FOR ALL OTHER SIZES) (12" LONG) (OPT.)
4	2	ELBOW 90° (2" TO 3" GALV.) (DIP FOR ALL OTHER SIZES)
5	2	FLANGE, STEEL PIPE, SCREW-TYPE
6	2	RISER, (2" TO 3" GALV.) (DIP FOR ALL OTHER SIZES) (42" LONG)
7	1	NIPPLE (2" TO 3" GALV.) (DIP FOR ALL OTHER SIZES) (6" LONG)
8	1	SEE NOTES
9	*	SEE NOTES

NOTES:
 1. ACCEPTABLE MANUFACTURERS: (SEE CODB'S ACCEPTABLE PRODUCT LIST)
 2. FIELD ADJUST AND CUT ITEM 6 & ITEM 8 (PIPE SUPPORT) TO THE PROPER LENGTH.
 3. BFP 4" AND GREATER SHALL BE DIP. BELOW 4" SHALL BE GALV.
 4. THE RISER & ELBOW TO BE PAINTED 136 OSHA RED FOR COMMERCIAL FIRE SERVICE, 137 OSHA BLUE FOR COMMERCIAL DOMESTIC SERVICE.
 5. (ITEM 8) 2" GALV. IRON PIPE/CONCRETE FOUNDATION (16"x16"x24" MIN.)
 6. (ITEM 9) TEST PORTS (QUANTITY/LOCATIONS DEPENDING ON MANUFACTURER)

NO.	DATE	DESCRIPTION	BY
5	01-28-26	REVISED	MRB
4	01-03-26	ADDED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
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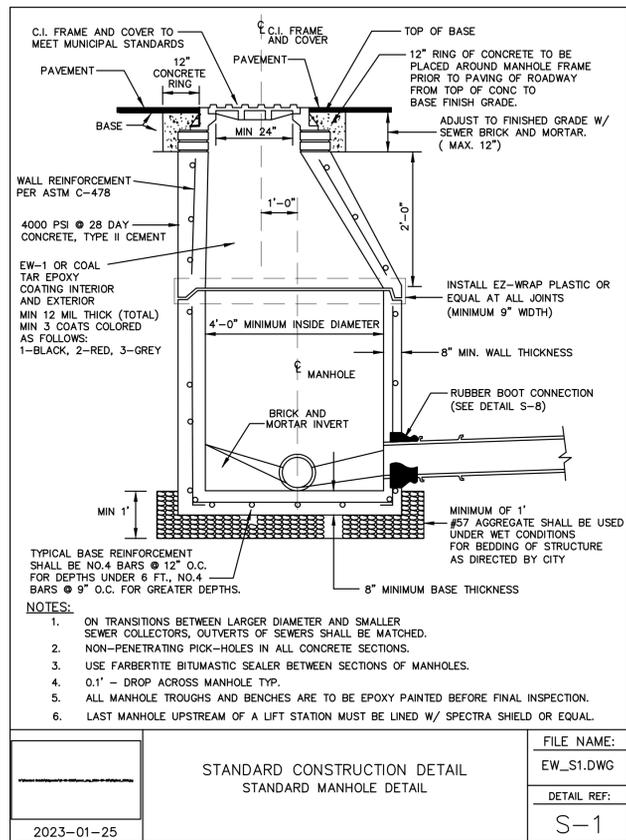
MIKE'S TIRE WAREHOUSE
 EDGEWATER * FLORIDA

WATER SYSTEM DETAILS

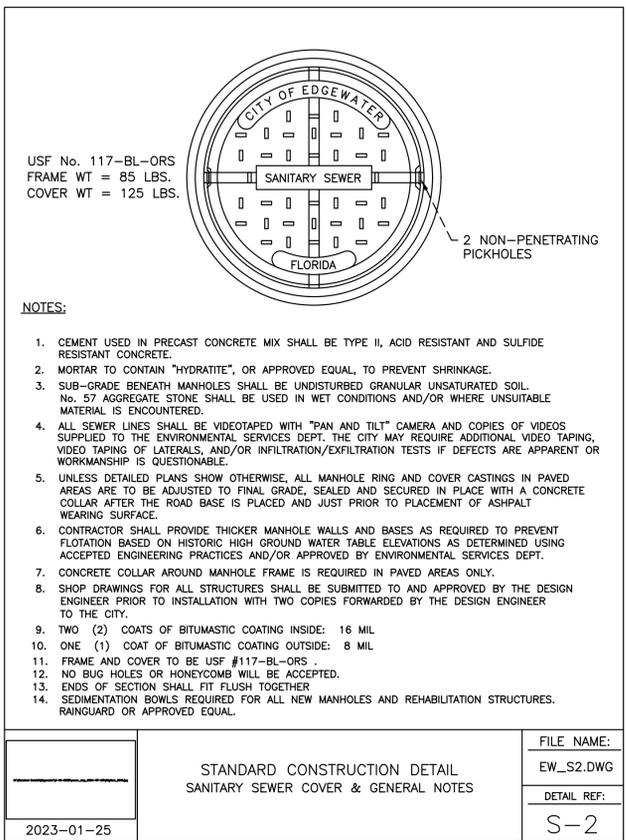
16
 SHEET NO.

File No. 25-22
 Drawn By: MRB
 Date: 04/29/25
 SCALE: NONE

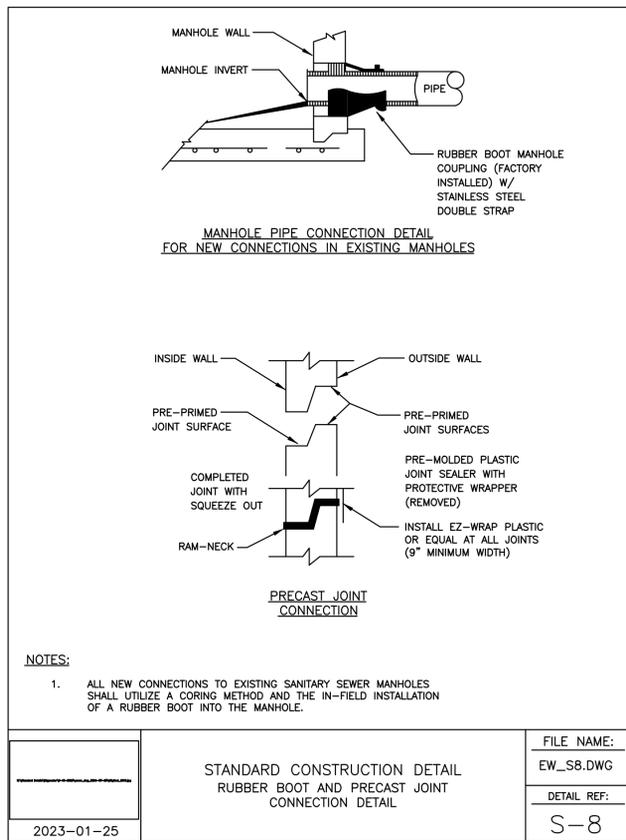
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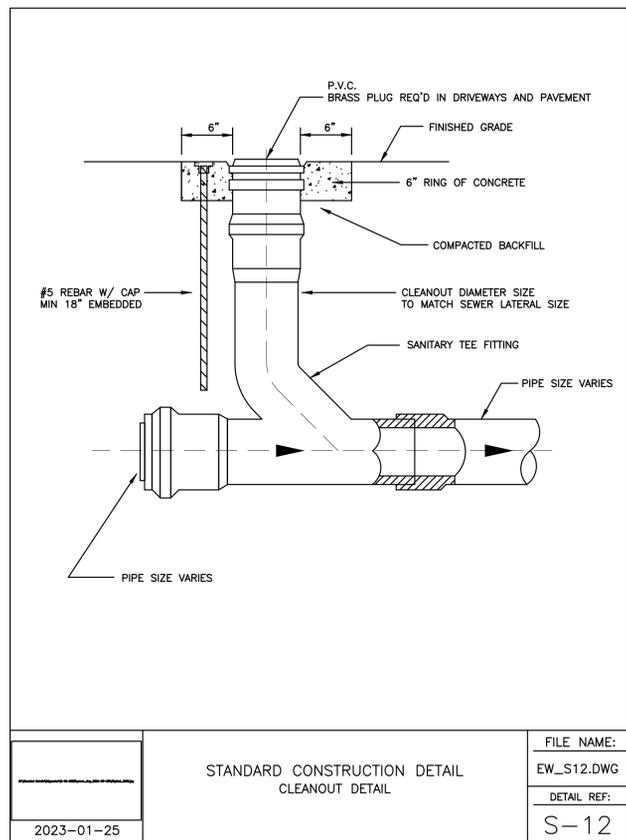
2023-01-25	STANDARD CONSTRUCTION DETAIL STANDARD MANHOLE DETAIL	FILE NAME: EW_S1.DWG DETAIL REF: S-1
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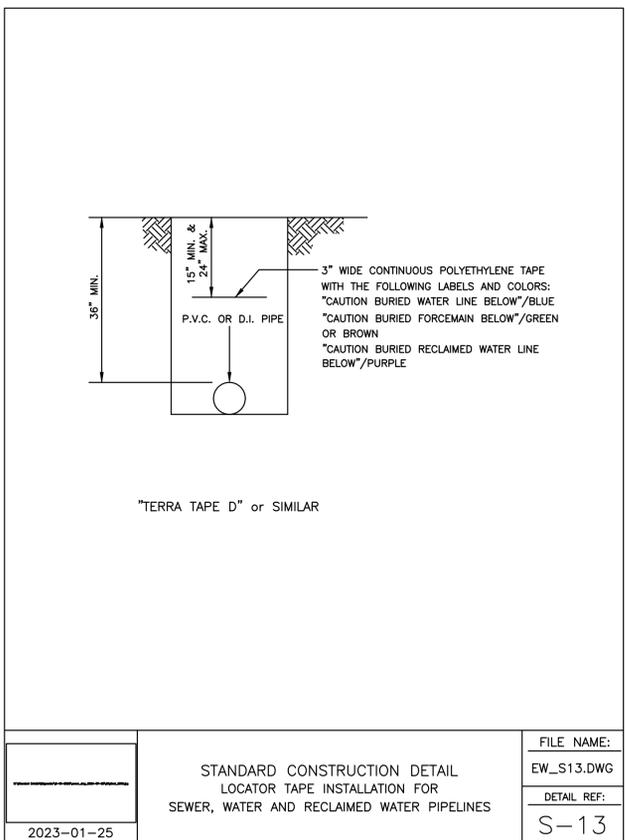
2023-01-25	STANDARD CONSTRUCTION DETAIL SANITARY SEWER COVER & GENERAL NOTES	FILE NAME: EW_S2.DWG DETAIL REF: S-2
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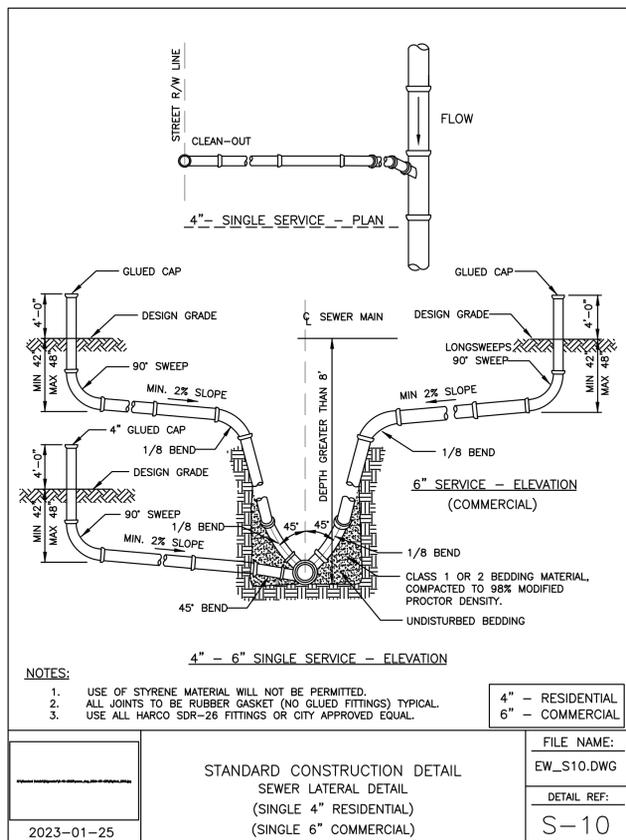
2023-01-25	STANDARD CONSTRUCTION DETAIL RUBBER BOOT AND PRECAST JOINT CONNECTION DETAIL	FILE NAME: EW_S8.DWG DETAIL REF: S-8
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2023-01-25	STANDARD CONSTRUCTION DETAIL CLEANOUT DETAIL	FILE NAME: EW_S12.DWG DETAIL REF: S-12
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2023-01-25	STANDARD CONSTRUCTION DETAIL LOCATOR TAPE INSTALLATION FOR SEWER, WATER AND RECLAIMED WATER PIPELINES	FILE NAME: EW_S13.DWG DETAIL REF: S-13
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2023-01-25	STANDARD CONSTRUCTION DETAIL SEWER LATERAL DETAIL (SINGLE 4\"/>	FILE NAME: EW_S10.DWG DETAIL REF: S-10
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MRB	REVISED		
MRB	REVISED	ADDED AC PAD AND SIDEWALK	
MRB	REVISED	REVISED PER COUNTY COMMENTS	
MRB	REVISED	REVISED PER SARWMD RAI	
MRB	REVISED		
BY	NO.	DATE	DESCRIPTION

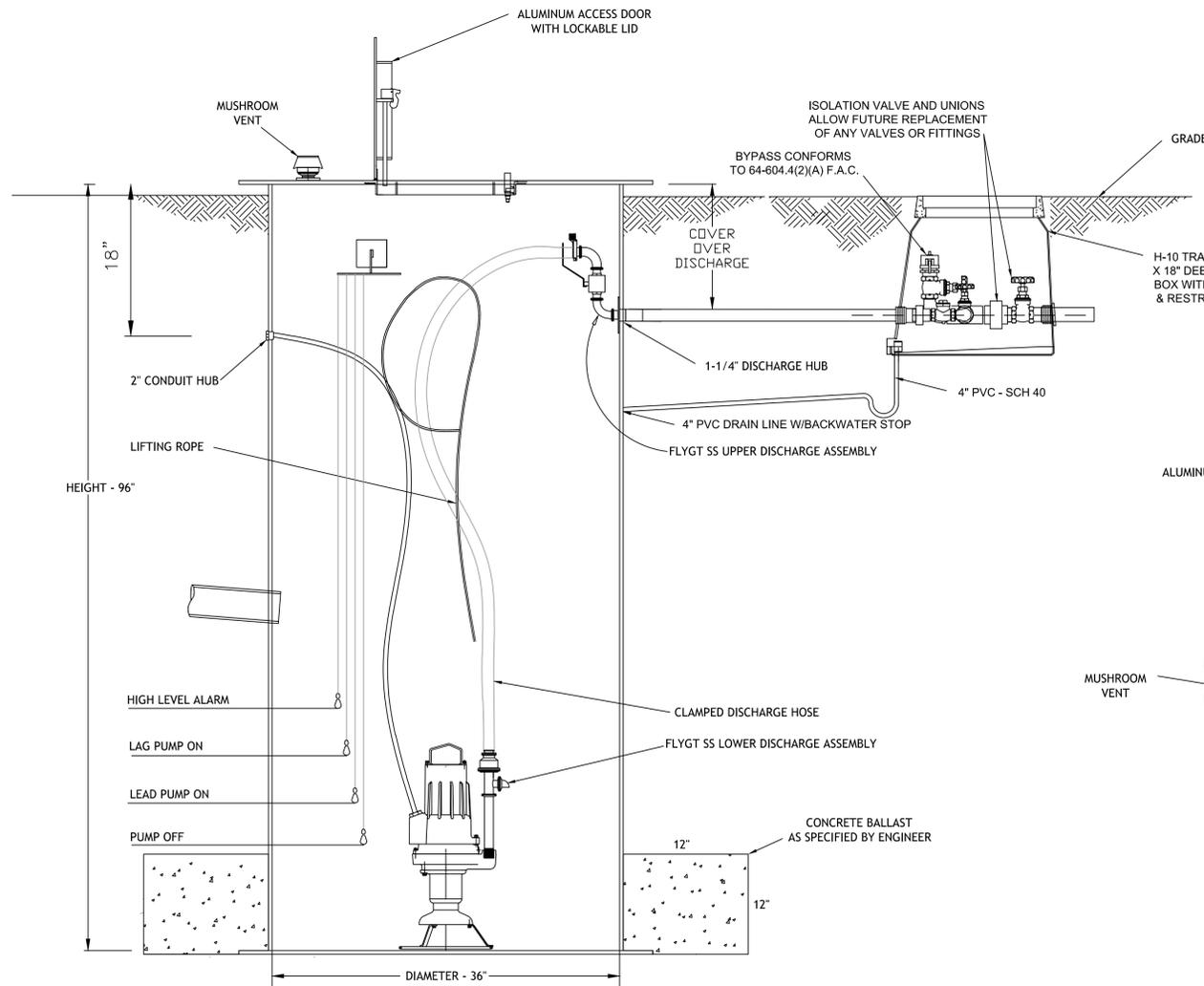
PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
STEVEN R. BUSWELL, P.E. #53985, R.L.A. #A6667011
KEVIN A. LEE, P.E. #71501, TANNER J. BANKS, P.E. #102523
E-MAIL: info@parkermychenberg.com
FAX (386) 677-2114
CERTIFICATE OF AUTHORIZATION NUMBER 00003910

MIKE'S TIRE WAREHOUSE EDGEWATER * FLORIDA	17 SHEET NO.
SANITARY SEWER DETAILS	File No. 25-22
	Drawn By: MRB
	Date: 04/29/25
	SCALE: NONE
	SEAL

PUMP INFORMATION	
MANUFACTURER	FLYGT
MODEL	M 3090 HT
HORSEPOWER	3.75
VOLTAGE / PHASE	230V 1 PHASE
DESIGN FLOW (GPM)	8
DESIGN HEAD (FEET)	73.4

BASIN DIMENSIONS	
DIAMETER - B	HEIGHT - A
☒ 36"	☒ 84"
☐ 48"	☐ 120"
☐ 60"	☐ 144"
☐ OTHER	☐ OTHER
VALVE BOX DIMENSIONS	
☒ 23" X 36" X 18"	

LIFT STATION SCHEDULE		
1	TOP OF BASIN	14.00
1	INLET INVERT	10.80
1	HIGH WATER LEVEL ALARM	9.00
1	LAG PUMP ON	8.50
1	LEAD PUMP ON	8.30
1	PUMPS OFF	8.00
1	BOTTOM OF BASIN	6.00
1	COVER OVER DISCHARGE	36"
1	INLET SIZE AND TYPE	6" PVC



LIFT STATION SECTION VIEW

EXAGGERATED FOR DETAIL - N.T.S.

DUPLICATE CONTROL PANEL:
CONTROL PANEL SHALL BE ASSEMBLED AND BUILT BY A UL508A CERTIFIED MANUFACTURE FACILITY.

THE ENCLOSURE SHALL BE NEMA 4X FIBERGLASS WITH PADLOCKABLE DRAW LATCHES.

THE ENCLOSURE SHALL BE ABLE TO BE WALL MOUNTED.

THE FOLLOWING COMPONENTS SHALL BE MOUNTED THROUGH THE ENCLOSURE:
• ALARM HORN
• GENERATOR RECEPTACLE WITH WEATHERPROOF COVER
• ALARM SILENCE PUSHBUTTON

THE FOLLOWING COMPONENTS SHALL BE MOUNTED THROUGH THE INNERDOOR:

- MAIN CIRCUIT BREAKER
- EMERGENCY CIRCUIT BREAKER
- MECHANICAL INTERLOCK FOR EMERGENCY AND MAIN BREAKERS
- SHORT CIRCUIT PROTECTORS
- CONTROL CIRCUIT BREAKER
- SEAL FAILURE INDICATOR LIGHTS
- HAND-OFF-AUTO SELECTOR SWITCHES
- PUMP RUN PILOT LIGHTS
- POWER ON PILOT LIGHT
- ELAPSE TIME METERS (NON-RESETTABLE)
- GFI DUPLEX CONVENIENCE OUTLET

MISCELLANEOUS: ALL WIRING ON THE BACKPANEL SHALL BE CONTAINED WITHIN THE WIRING DUCT. ALL WIRING BETWEEN THE INNERDOOR AND THE BACKPANEL SHALL BE CONTAINED WITH A PLASTIC SPIRAL WRAP.

EACH WIRE SHALL HAVE A WIRE NUMBER AT EACH END TO CORRESPOND TO THE AS BUILD DRAWING FOR FIELD TROUBLESHOOTING.

THE CONTROL PANEL SHALL BE ASSEMBLED BY A UL508A CERTIFIED MANUFACTURING FACILITY.

FASTENERS AND APPURTENANCES: ALL FASTENERS, LIFTING CABLES, FLOAT CABLE BRACKET, HINGES, AND APPURTENANCES SHALL BE MADE OF 304SS MINIMUM.

- A 304SS SLIDE/LATCH ASSEMBLY SHALL BE PROVIDED FOR HOLDING THE DOORS OPEN ON THE WET WELL AND VALVE BOX.
- SLIDE RAILS SHALL BE MADE OF SCH 40 304SS PIPE.
- PUMP LIFTING CABLES/CHAINS SHALL BE 304SS.
- PUMP LIFTING BALES SHALL BE MADE OF 304SS.

EXECUTION:

INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS IN THE THE LOCATIONS SHOWN ON THE DRAWINGS.

CERTIFIED ELECTRICIAN SHALL MOUNT CONTROL PANEL AND CONNECT POWER SERVICE TO PANEL PRIOR TO STARTUP AND FACTORY REP SITE VISIT.

THE PUMP CONTROLS AND PUMPS SHALL BE CHECKED FOR PROPER OPERATION AND ENSURE THAT ALL LEVEL CONTROLS ARE IN ACCORDANCE WITH THE PLANS AND FULLY FUNCTIONING.

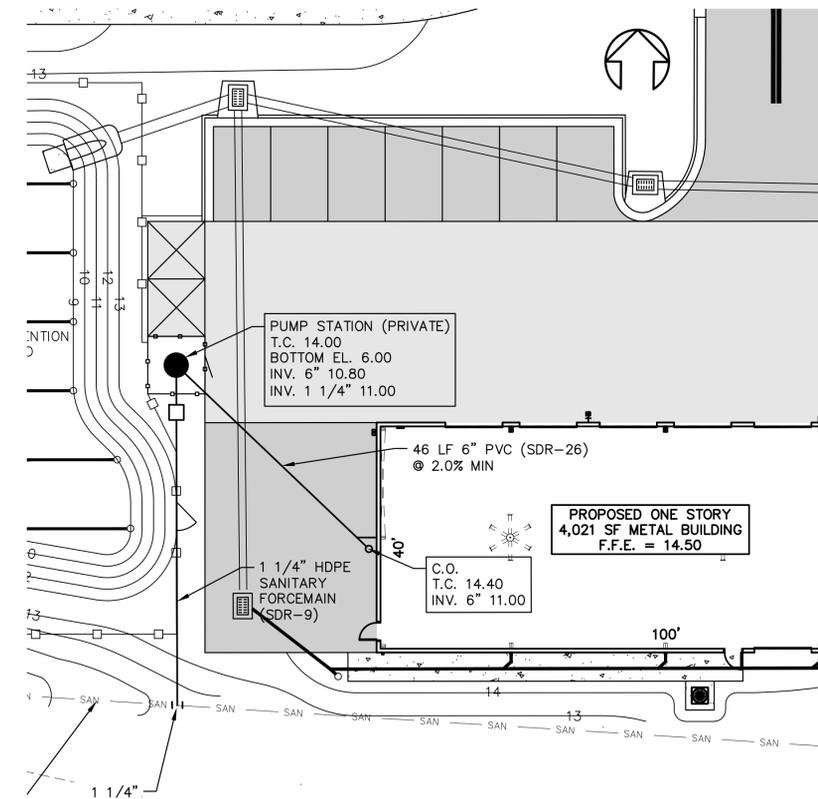
PUMP STATION SHALL BE VENTED PER MANUFACTURE'S RECOMMENDATIONS.

BASIN INSTALLATION INSTRUCTIONS:

1. INSPECT ALL MATERIALS SUPPLIED TO ENSURE THERE ARE NO DAMAGES DUE TO SHIPPING PRIOR TO INSTALLATION.
2. EXCAVATE HOLE LARGE ENOUGH TO ACCOMMODATE BASIN, UNDERGROUND PIPING, BACKFILL MATERIAL, AND ADEQUATE WORKING SPACE.
3. PREPARE THE BOTTOM OF THE EXCAVATED HOLE WITH 6" OF BACKFILL MATERIAL OR CONCRETE PAD. CHECK BASE TO INSURE IT IS LEVEL AND SMOOTH.
4. INSTALL BASIN ON GRAVEL BASE OR CONCRETE PAD, ANCHOR IF NECESSARY.
5. CONCRETE MAY BE PORED AROUND BASIN BOTTOM IF BALLAST IS REQUIRED FOR BUOYANCY.
6. BACKFILL WITH PEA GRAVEL 4" TO 6" AROUND THE ENTIRE PERIPHERY OF THE BASIN/COMPACTED BACKFILL MATERIAL IN 12" LIFTS. STOP AND CONNECT PIPING AS REQUIRED.

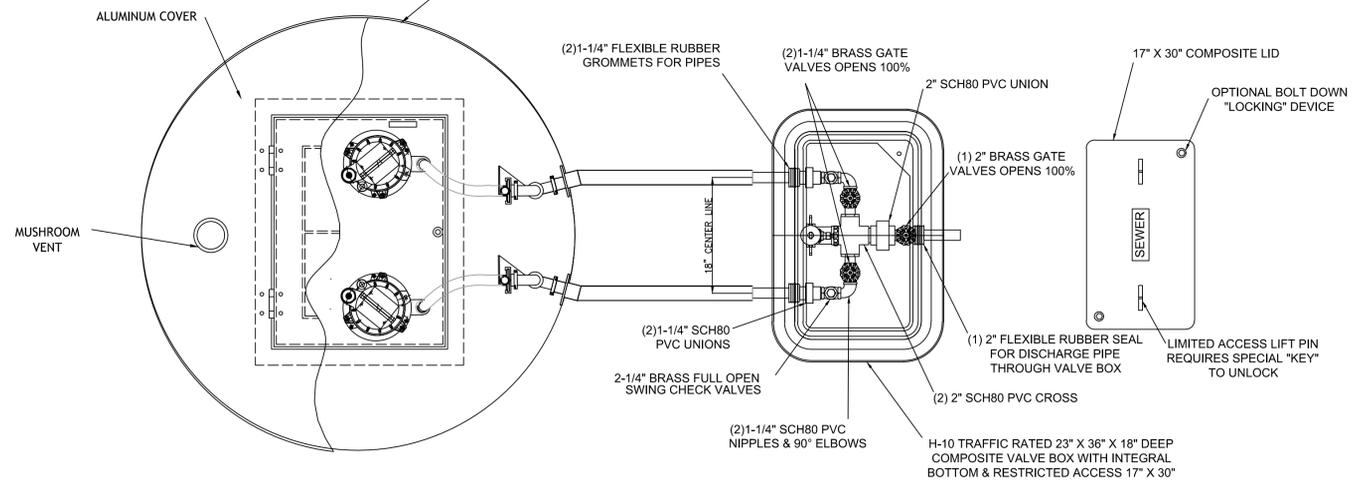
RECOMMENDED BACKFILL MATERIAL:

GRAVEL OR STONE TO BE FREE FLOWING, NATURALLY ROUNDED AGGREGATE WITH A PARTICLE SIZE OF NOT LESS THAN 3/8" OR LARGER THAN 3/4" IN DIAMETER.

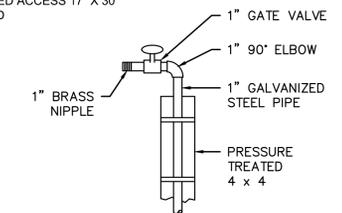


LIFT STATION SITE PLAN

N.T.S.



LIFT STATION PLAN VIEW



1" WATER SERVICE DETAIL

N.T.S.

ELECTRICAL NOTES:

1. DISCONNECT IS REQUIRED WITHIN SIGHT OR 50' MAX FROM PANEL LOCATION.
2. COORDINATE ALL ELECTRICAL WORK PRIOR TO CONSTRUCTION.
3. PANEL SHALL BE MANUFACTURED TO UNDERWRITERS'S LABORATORIES STANDARDS AND LABELED ACCORDINGLY.
4. EACH FLEXIBLE CABLE SHALL BE PROVIDED WITH A WATER TIGHT SEAL AND SEPARATE STRAIN RELIEF.
5. ELECTRICAL EQUIPMENT EXPOSED TO WEATHER SHALL MEET THE REQUIREMENTS OF WEATHERPROOF EQUIPMENT NEMA 4X.
6. A 110VOLT POWER RECEPTACLE WITH GROUND FAULT INTERRUPTION (GFI) PROTECTION SHALL BE AVAILABLE TO FACILITATE MAINTENANCE EITHER INSIDE THE CONTROL PANEL OR WITHIN 25 FEET OF CONTROL PANEL.
7. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
8. ELECTRICIAN SHALL SEAL OFF CONDUIT RUNS WITH APPROPRIATE MATERIAL EQUIPMENT.
9. CONTRACTOR SHALL VERIFY POWER SOURCE PRIOR TO ORDERING EQUIPMENT.
10. NEUTRAL TO BE SUPPLIED FOR SINGLE PHASE AND THREE PHASE POWER.
11. ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE THE 100-YEAR FLOOD ELEVATION (WHERE APPLICABLE).

NO.	DATE	DESCRIPTION	BY
5	01-28-26	REVISED	MRB
4	01-03-26	ADDED AC PAD AND SIDEWALK	MRB
3	12-17-25	REVISED PER COUNTY COMMENTS	MRB
2	10-17-25	REVISED PER SARWAD RAI	MRB
1	06-17-25	REVISED	MRB

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MIKE'S TIRE WAREHOUSE
 EDgewater • FLORIDA
 LIFT STATION DETAILS

19
 SHEET NO.

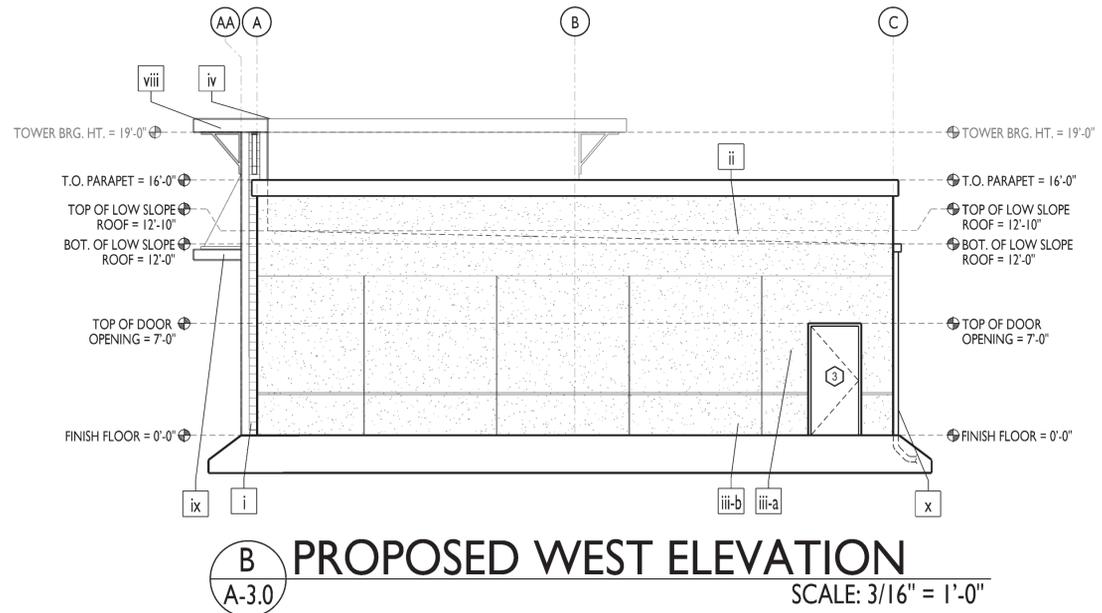
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Drawn By: MRB

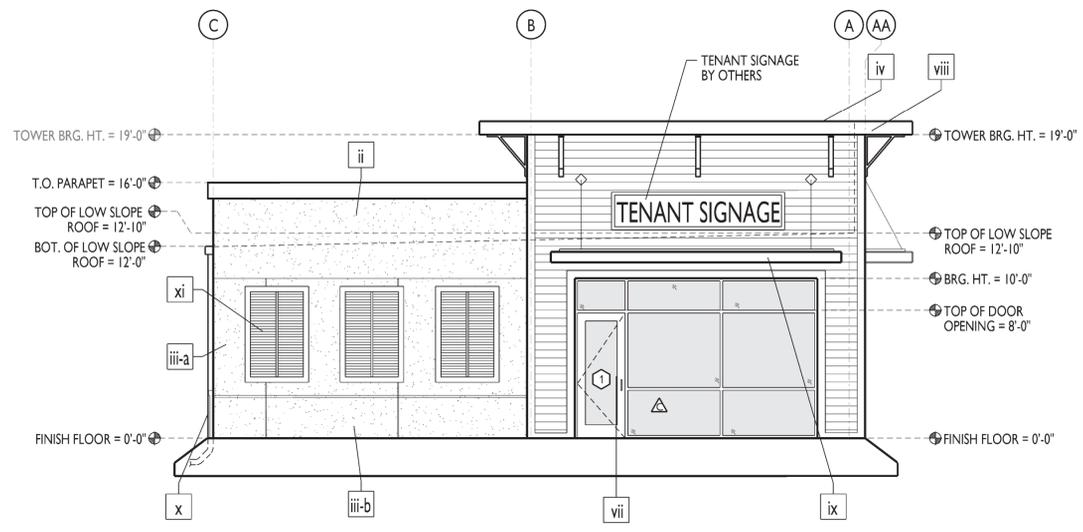
Date: 04/29/25

SCALE: NONE

SEAL



B PROPOSED WEST ELEVATION
 A-3.0 SCALE: 3/16" = 1'-0"



A PROPOSED EAST ELEVATION
 A-3.0 SCALE: 3/16" = 1'-0"

MATERIAL & COLOR SCHEDULE											
NO.	BLDG ELEMENT	MATERIAL	MANUF.	MODEL	COLOR	NO.	BLDG ELEMENT	MATERIAL	MANUF.	MODEL	COLOR
i	EXTERIOR WALL (1)	CEMENT BD. HORIZ. LAP SIDING	T.B.D.	T.B.D.	SW-6257 GIBRALTAR	vi	ROLL-UP GARAGE DOOR	ALUMINUM W/ PARTIAL GLAZING ON N. DOORS	T.B.D.	T.B.D.	SW-4258 TRICORN BLACK
ii	EXTERIOR WALL (2)	(2) COAT STUCCO OVER FW-120 PANEL	T.B.D.	T.B.D.	SW-6257 GIBRALTAR	vii	STOREFRONT WINDOWS & DOORS	STOREFRONT FRAMES W/ LOW E TINTED GLAZING	T.B.D.	T.B.D.	SW-4258 TRICORN BLACK
iii-a	EXTERIOR WALL (3)	(2) COAT STUCCO OVER PRECAST PANEL	T.B.D.	T.B.D.	SW-6257 GIBRALTAR	viii	EAVES & SOFFITS	ALUM. FASCIA SYSTEM & NON-VENTED CEMENT BD. SOFFIT	T.B.D.	T.B.D.	SW-4258 TRICORN BLACK
iii-b	EXTERIOR WALL (3)	(2) COAT STUCCO OVER PRECAST PANEL	T.B.D.	T.B.D.	SW-3662 EVENING SHADOW	ix	AWNINGS	PRE-ENGINEERED METAL	T.B.D.	T.B.D.	SW-4258 TRICORN BLACK
iv	TYP. ROOF	STANDING SEAM MTL.	T.B.D.	T.B.D.	GALVALUME PLUS	x	DOWNSPOUTS	3" X 4" RECT. DOWNSPOUT	T.B.D.	T.B.D.	SW-6257 GIBRALTAR
v	WINDOW, DOOR & ACCENT TRIM	STUCCO (REF TO DETAILS)	T.B.D.	T.B.D.	SW-4358 TRICORN BLACK	xi	FAUX SHUTTERS	FOAM SHUTTERS W/ STUCCO TEXTURE FINISH	T.B.D.	T.B.D.	SW-4258 TRICORN BLACK

EAST ELEVATION FENESTRATION CALCULATION						
SF	FULL FACADE SF	STOREFRONT SF	GLAZED ROLL-UP SF	2 X 10 FAUX SHUTTER SF	4 X 6 FAUX SHUTTER SF	TOTAL FENES. SF
	+/- 743 SF	+/- 153 SF	N/A	N/A	+/- 24 SF EA. X 3 = 72 SF	+/- 225 SF
						FENES. % OF FACADE = 30.3 %

GENERAL NOTES:
 ALL GENERAL & SUB-CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS.
 ELECTRICAL, WATER, SEWER AND GAS SERVICE LOCATIONS.
 ALL DIMENSIONS ARE TO FINISH FACE, UNLESS NOTED OTHERWISE.
 ALL WORK MUST COMPLY WITH THE 2023 (8TH) EDITION (EXPOSURE "C") PER STRUCTURAL PLANS/ WIND LOAD: Vult = 139 MPH, Vult = 108 MPH AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION.
 ALL DOOR & WINDOW OPENINGS TO MEET OR EXCEED DESIGN PRESSURE RANGE AS SPECIFIED ON SHEET TBL. THE BUILDING RISK CATEGORY IS "II".
 INTERNAL PRESSURE COEFFICIENT IS +/- 0.18 IN ACCORDANCE WITH ASCE 7-22.
 ALL GLAZING IS TO BE NON-IMPACT RATED.

REVISIONS

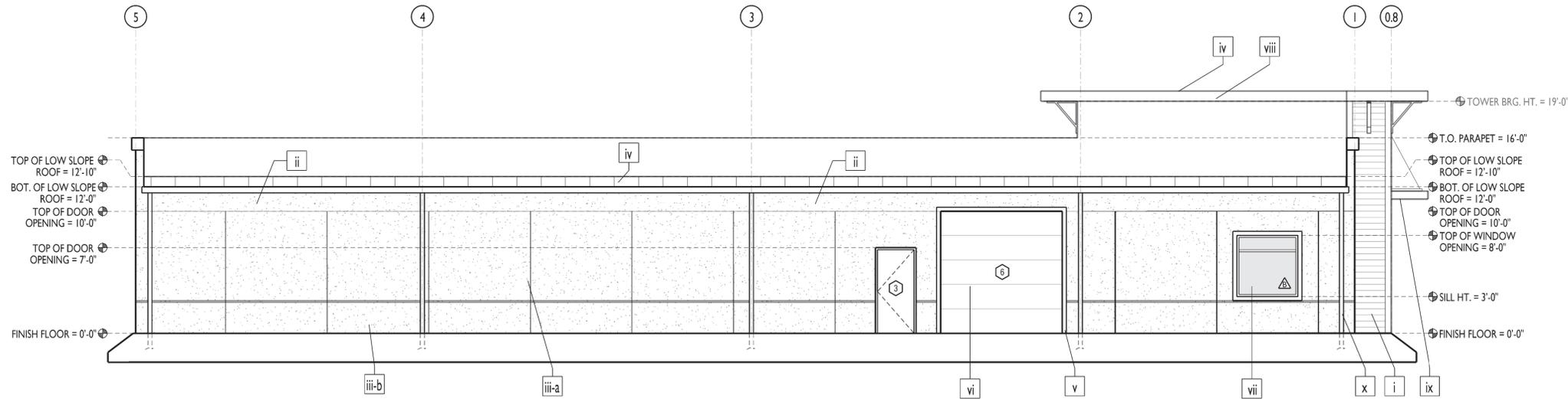
MIKE'S TIRE WAREHOUSE - NEW BUILDING
 OWNER/DEVELOPER: MOHAMMED K. HARB, 785 ASPEN DRIVE, SOUTH DAYTONA, FL 32119
 PROJECT LOCATION: 2350 SOUTH RIDGEWOOD AVENUE, EDGEWATER, FL 32141
 GENERAL CONTRACTOR: ZANCO PROPERTIES, LLC, CB#4059738, DBA MYCO BUILDERS, 6373 FAIRWAY COVE DRIVE, PORT ORANGE, FL 32127 PH:(386)304-0040

BPF DESIGN INCORPORATED
 Building Design and Architecture
 BRIAN P. FREDLEY, ASSOCIATE AIA, PROJECT MANAGER
 DALLAS B. PEACOCK, ARCHITECT
 #AR 0009706
 207 FAIRVIEW AVENUE
 DAYTONA BEACH, FL 32114 PH: (386) 257-6502, FX: (386) 257-1050
 EMAIL: bfredley@bpfdesign.com WEBSITE: bpfdesign.com

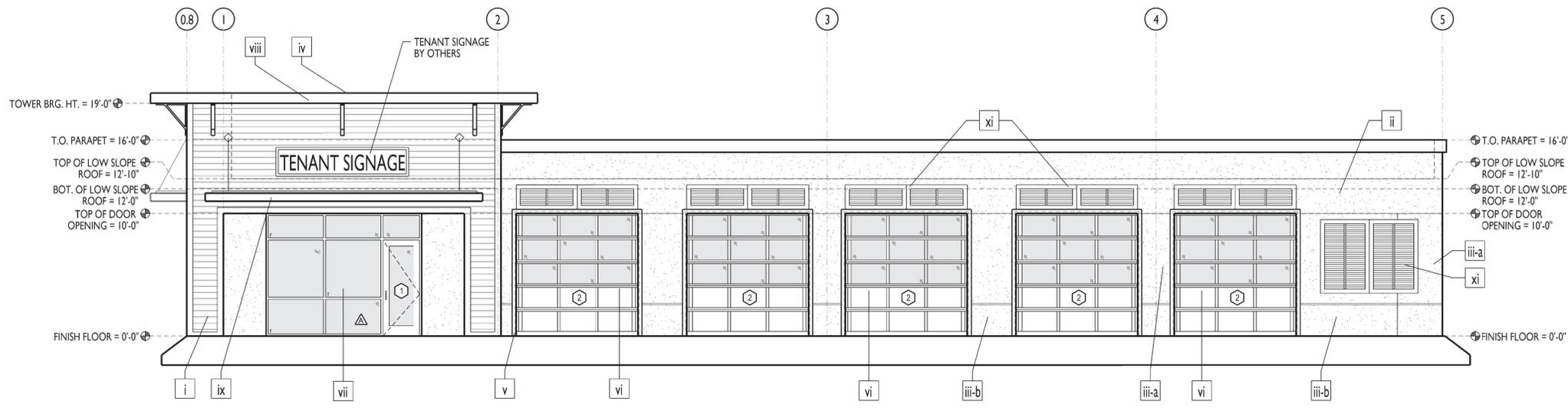
PROPOSED ELEVATIONS

DRAWN BY: TEM	CHECKED BY: DRP & BPF
DATE: DECEMBER 29, 2023	SHT NO. A-3.0
SCALE: 3/16" = 1'-0"	

ARCHITECT'S / ENGINEER'S SEAL



B PROPOSED SOUTH ELEVATION
 A-3.1 SCALE: 3/16" = 1'-0"



A PROPOSED NORTH ELEVATION
 A-3.1 SCALE: 3/16" = 1'-0"

MATERIAL & COLOR SCHEDULE											
NO.	BLDG ELEMENT	MATERIAL	MANUF.	MODEL	COLOR	NO.	BLDG ELEMENT	MATERIAL	MANUF.	MODEL	COLOR
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v	WINDOW, DOOR & ACCENT TRIM	STUCCO (REF TO DETAILS)	T.B.D.	T.B.D.	SW-4258 TRICORN BLACK	xi	FAUX SHUTTERS	FOAM SHUTTERS W/ STUCCO TEXTURE FINISH	T.B.D.	T.B.D.	SW-4258 TRICORN BLACK

NORTH ELEVATION FENESTRATION CALCULATION						
SF	FULL FACADE SF	STOREFRONT SF	GLAZED ROLL-UP SF	2 X 10 FAUX SHUTTER SF	4 X 6 FAUX SHUTTER SF	TOTAL FENES. SF
	+/- 1,753 SF	+/- 127 SF	+/- 59 SF EA. X 5 = 295 SF	+/- 20 SF EA. X 5 = 100 SF	+/- 24 SF EA. X 2 = 48 SF	+/- 570 SF
						570 SF / 1,753 SF = 32.5 %

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 INTERNAL PRESSURE COEFFICIENT IS +/- 0.18 IN ACCORDANCE WITH ASCE 7-22.
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 207 FAIRVIEW AVENUE
 DAYTONA BEACH, FL 32114 PH: (386) 257-6502, FX: (386) 257-1050
 EMAIL: bfredley@bpedesign.com WEBSITE: bpedesign.com

PROPOSED ELEVATIONS
 DRAWN BY: TEM
 CHECKED BY: DRP & BPF
 DATE: DECEMBER 29, 2023
 SCALE: 3/16" = 1'-0"
 SHT NO. A-3.1

ARCHITECTS / ENGINEER'S SEAL