

FIRST STEP HOMELESS ASSISTANCE SHELTER DAYTONA BEACH, FLORIDA FINAL SITE PLAN DEV #2017-104

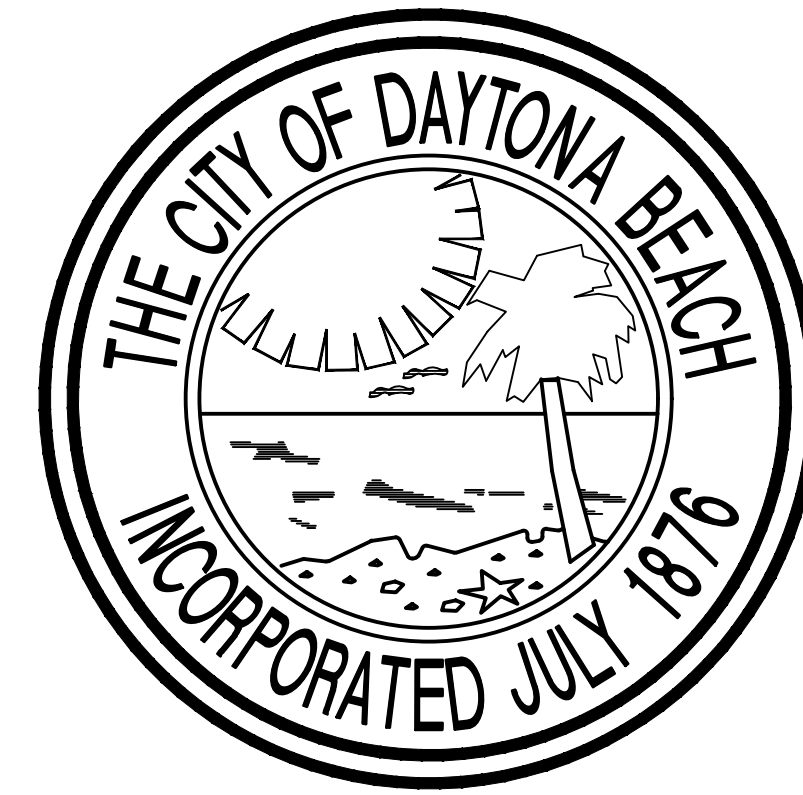
GENERAL NOTES

- EXISTING ZONING: C, VOLUSIA COUNTY
- BOUNDARY, AND TOPOGRAPHIC SURVEY BASED ON SURVEY PREPARED BY SLIGLER & ASSOCIATES, INC., DATED: 8/18/17.
- UNDERGROUND UTILITY LOCATIONS AS FIELD MARKED BY THE FOLLOWING COMPANIES OR THEIR REPRESENTATIVES:

FLORIDA POWER & LIGHT COMPANY	3000 SPRUCE CREEK ROAD
PORT ORANGE, FL. 32129	(386) 322-3425
AT&T	900 N. NOVA ROAD
DAYTONA BEACH, FL. 32117	(386) 257-7950
SPECTRUM	1475 S. NOVA ROAD
DAYTONA BEACH, FL. 32114	(386) 760-9941
TECO PEOPLES GAS	1722 RIDGEWOOD AVE
HOLLY HILL, FL. 32117	(386) 527-8377
CITY OF DAYTONA BEACH	950 BELLEVUE ROAD
DAYTONA BEACH, FL. 32114	(386) 671-8635
- LOCATIONS OF EXISTING UTILITIES ARE SHOWN BASED ON AVAILABLE DATA.
- 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.
 CONTRACTOR TO COORDINATE DEMOLITION AND CONSTRUCTION WITH ALL PUBLIC AND PRIVATE UTILITY COMPANIES TO AVOID CONFLICTS AND/OR INTERRUPTIONS OF SERVICE.
- CONTRACTOR TO PROVIDE AS BUILT DRAWINGS OF ALL IMPROVEMENTS ON 24" X 36" MYLAR, SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR.
- THERMOPLASTIC STRIPING AND TRAFFIC CONTROL SIGNAGE TO MEET FDOT AND CITY OF DAYTONA BEACH 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 DAYTONA BEACH 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 12", 3 LBS./FT. "U" CHANNEL POSTS (RAIL STEEL ONLY) OR 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 3,500 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.

LAND USE TABULATION

SITE AREA	= 10.35 ACRES = 450,977 S.F.
PROPOSED BUILDING:	
PHASE 1	= 17,924 S.F.
PHASE 2	= 9,624 S.F.
TOTAL	= 27,548 S.F. = 6.1% COVERAGE
IMPERVIOUS AREA:	
PHASE 1 BUILDING	= 17,924 S.F.
PHASE 1 SIDEWALKS, DRIVES & PARKING	= 66,888 S.F.
TOTAL PHASE 1 IMPERVIOUS	= 84,812 S.F. = 18.8%
PHASE 2 BUILDING	= 9,624 S.F.
PHASE 2 PAVEMENT	= 34,588 S.F.
SUB TOTAL PHASE 2 IMPERVIOUS	= 44,212 S.F.
TOTAL IMPERVIOUS AREA	= 129,024 S.F. = 28.6%
TOTAL LANDSCAPE AREA	= 321,953 S.F. = 71.4%
TAX PARCEL #01-16-31-00-00-0020	



PROJECT DESCRIPTION

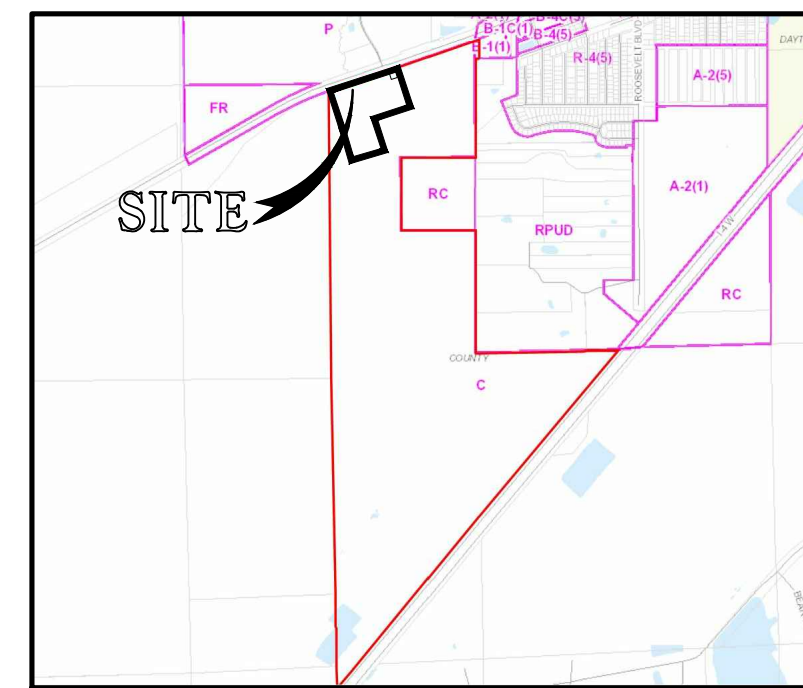
CONSTRUCTION OF A 1-STORY 17,924 S.F. (PHASE 1) BUILDING & ASSOCIATED PAVING, DRAINAGE, UTILITY, LANDSCAPE, SIGNAGE & SIDEWALK IMPROVEMENTS.

PROJECT ADDRESSES

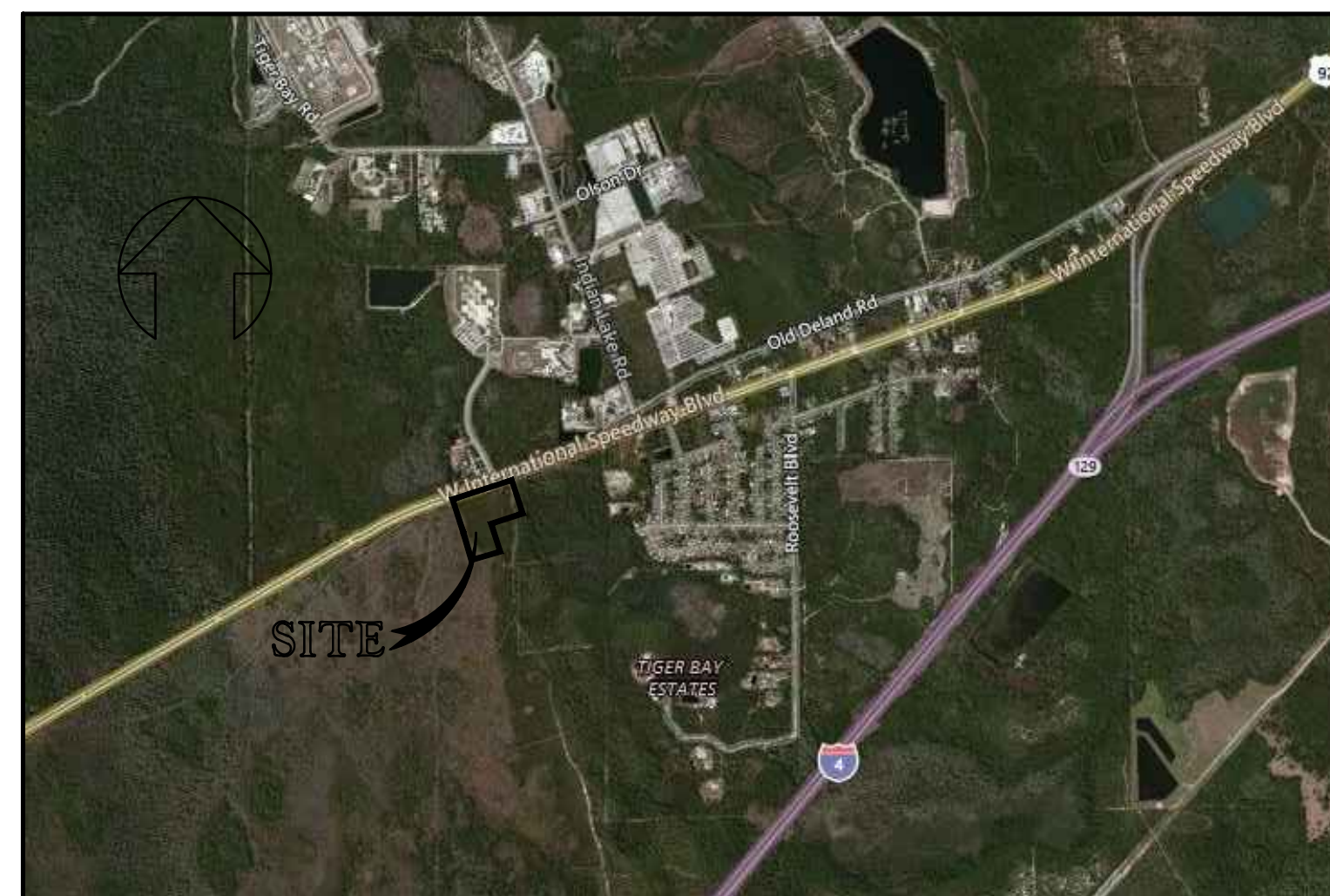
FIRST STEP SHELTER: 3889 WEST INTERNATIONAL SPEEDWAY BLVD.
SANITARY LIFT STATION: 3887 WEST INTERNATIONAL SPEEDWAY BLVD.

INDEX TO DRAWINGS

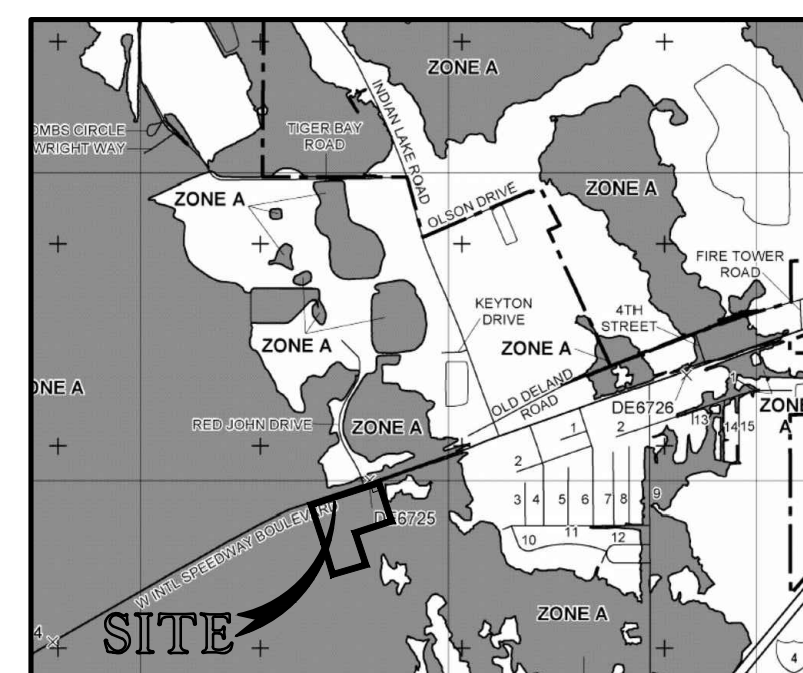
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	BOUNDARY SURVEY
3	TOPOGRAPHIC SURVEY
4	DEMOLITION & EROSION CONTROL PLAN
5	SITE PLAN
6	CIVIL SITE PLAN
6A	I.S.B. IMPROVEMENT PLAN
7	UTILITY SITE PLAN
8	LANDSCAPE PLAN
8A	SIGHT LINE PLAN
9	LANDSCAPE DETAILS
10-13B	PAVING & DRAINAGE DETAILS
14-15	WATER STANDARD DETAILS
16-17	SEWER STANDARD DETAILS
18	SUMMARY OF PAY ITEMS PHASE 1



ZONING MAP



LOCATION MAP

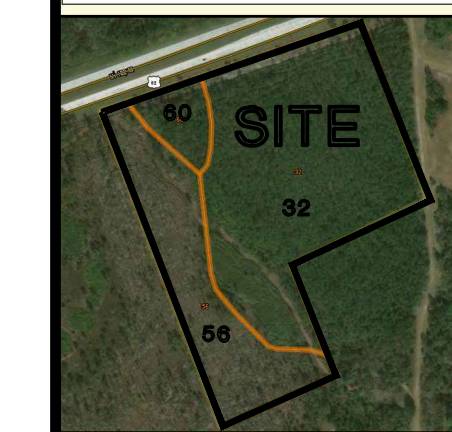


FLOOD MAP

FEMA MAP NUMBER 12127C0350H
MAP REVISED FEBRUARY 19, 2014
ZONE X &
*ZONE A - NO BASE FLOOD ELEVATION DETERMINED
*NOTE: DESIGN CALCULATIONS DETERMINED 100 YR FLOOD ELEVATION IS 39.00 MSL.

NOTE:
NO CONSTRUCTION ON THE PROPOSED PORTIONS OF THIS PROJECT MAY COMMENCE UNTIL A MANDATORY PRE-CONSTRUCTION MEETING IS HELD WITH THE CITY, AS STATED IN THE APPROVED DEVELOPMENT ORDER FROM THE CITY OF DAYTONA BEACH. ANY CESSATION OF CONTINUOUS ON-GOING CONSTRUCTION ON THIS PROJECT OF 90 DAYS OR MORE SHALL TRIGGER A REQUIREMENT FOR ANOTHER PRE-CONSTRUCTION MEETING BE HELD WITH THE CITY PRIOR TO CONTINUATION OF THE CONTINUING CONSTRUCTION.

Map Unit Name	Acres	Percent of A01
32 HvyAa-HvyAa, wet, fine sand, 0 to 2 percent slopes	10.9	63.5%
56 Surface rock, irregularly bedded, 0 to 1 percent slopes	5.1	30.0%
50 Shvva-Shvva, wet, fine sand, 0 to 2 percent slopes	1.1	6.5%
Totals for Area of Interest	17.2	100.0%



SOILS MAP

PARKING CALCULATION

PARKING REQUIRED:
PHASE 1
120 BED @ 1/4 = 30 SPACES
EMPLOYEES = 14 SPACES
TOTAL PARKING REQUIRED PHASE 1 = 44 SPACES

PARKING PROVIDED:
STANDARD = 44
HANDICAPPED = 4
TOTAL = 48 SPACES

DEV #2017-104
CITY APPROVAL STAMP

GENERAL INFORMATION

PROJECT NAME:

FIRST STEP HOMELESS ASSISTANCE SHELTER FINAL SITE PLAN
3889 WEST INTERNATIONAL SPEEDWAY BOULEVARD
DAYTONA BEACH, FLORIDA, 32124

OWNER

CITY OF DAYTONA BEACH
P.O. BOX 2451
DAYTONA BEACH, FLORIDA 32115-2451
(386) 671-8010 FAX (386) 671-8015

DESIGN ENGINEER/ LANDSCAPE ARCHITECT:

PARKER MYNCHENBERG & ASSOC., INC.
PARKER MYNCHENBERG, P.E. #32645, L.A.#1553
CERTIFICATE OF AUTHORIZATION #3910
1729 RIDGEWOOD AVENUE
HOLLY HILL, FLORIDA 32117
(386) 677-6891 FAX (386) 677-2114
E-MAIL: info@parkermynchenberg.com

SURVEYOR:

SLIGLER AND ASSOCIATES, INC.
PROFESSIONAL LAND SURVEYORS
3921 NOVA ROAD
PORT ORANGE, FL 32127
(386) 761-5385

ARCHITECT:

HALL & OGLE ARCHITECTS, INC.
208 MAGNOLIA AVENUE
DAYTONA BEACH, FLORIDA 32114
(386)255-6163 FAX (386)257-5650
AA-C000925

DEVELOPMENT CONSULTANT:

DOUGLAS P. KURTOCK
E-ZONE MAINTENANCE & OPERATIONS MANAGER
CONSTRUCTION PROJECT & DEVELOPMENT MANAGER
CITY OF DAYTONA BEACH
13 S. ATLANTIC AVENUE
DAYTONA BEACH, FLORIDA 32118
(386)671-3570 CELL (304)964-5685
E-MAIL: KurtockDoug@codb.us

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

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FDOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SJRWMD	BVB

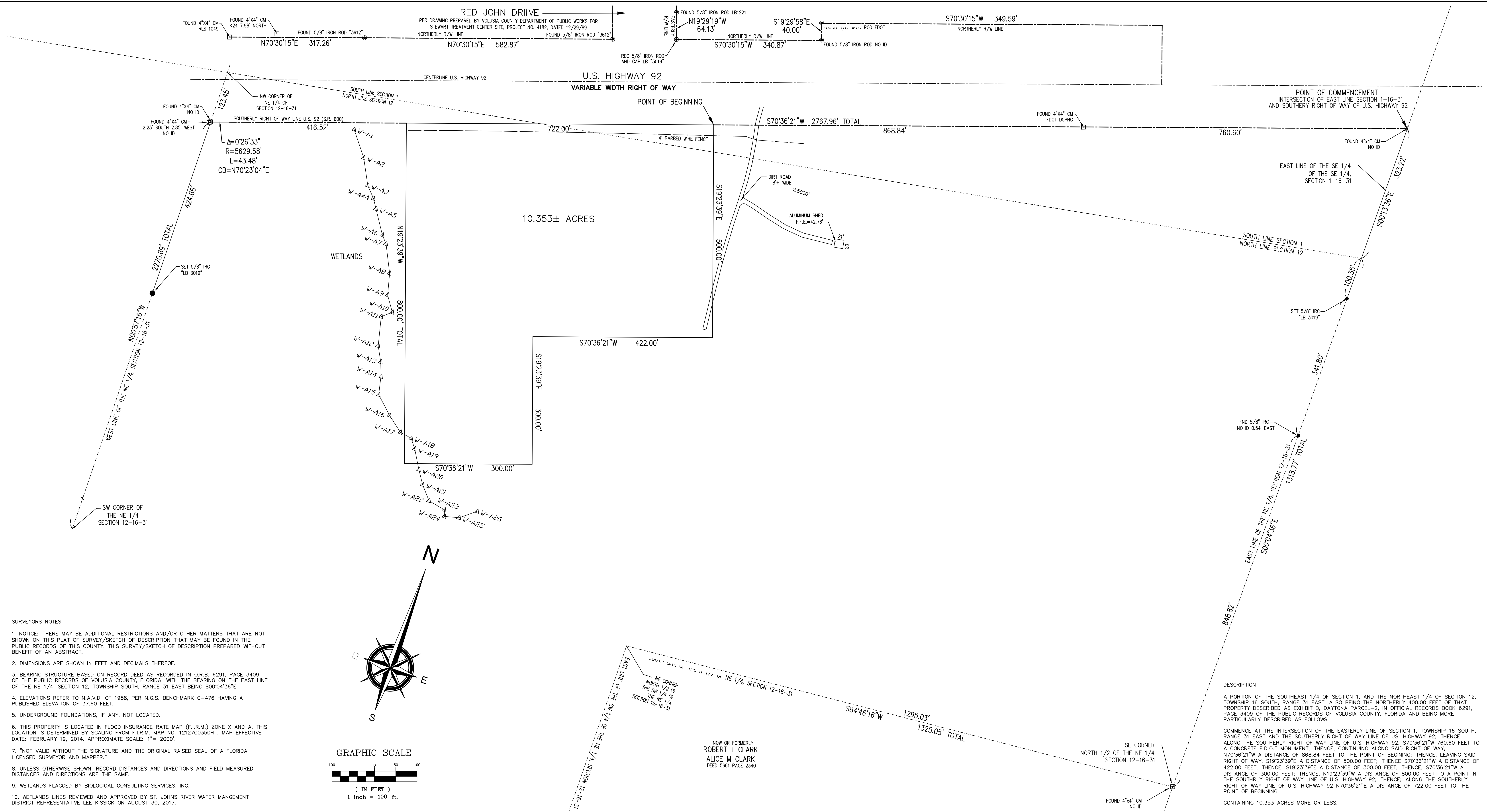
REVISIONS

COVER SHEET

FIRST STEP HOMELESS ASSISTANCE SHELTER
DAYTONA BEACH * FLORIDA

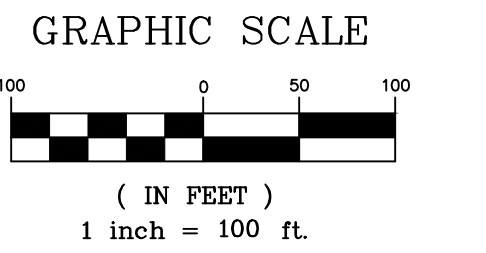
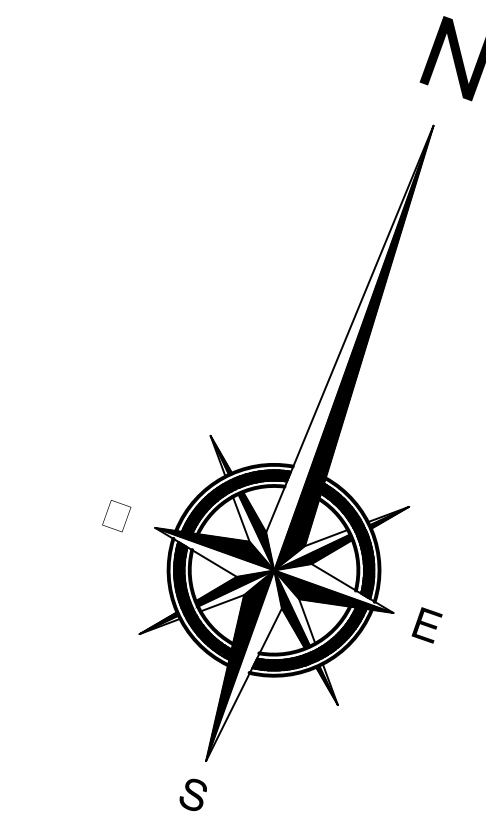
FILE: 1622CS.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: NONE	SHEET 1 OF 18

SEAL



SURVEYORS NOTES

- NOTICE: THERE MAY BE ADDITIONAL RESTRICTIONS AND/OR OTHER MATTERS THAT ARE NOT SHOWN ON THIS PLAT OF SURVEY/SKETCH OF DESCRIPTION THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. THIS SURVEY/SKETCH OF DESCRIPTION PREPARED WITHOUT BENEFIT OF AN ABSTRACT.
- DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
- BEARING STRUCTURE BASED ON RECORD DEED AS RECORDED IN O.R.B. 6291, PAGE 3409 OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA, WITH THE BEARING ON THE EAST LINE OF THE NE 1/4, SECTION 12, TOWNSHIP SOUTH, RANGE 31 EAST BEING S00°04'36\"/>



DESCRIPTION

A PORTION OF THE SOUTHEAST 1/4 OF SECTION 1, AND THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 16 SOUTH, RANGE 31 EAST, ALSO BEING THE NORTHERLY 400.00 FEET OF THAT PROPERTY DESCRIBED AS EXHIBIT B, DAYTONA PARCEL-2, IN OFFICIAL RECORDS BOOK 6291, PAGE 3409 OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE INTERSECTION OF THE EASTERLY LINE OF SECTION 1, TOWNSHIP 16 SOUTH, RANGE 31 EAST AND THE SOUTHERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 92; THENCE ALONG THE SOUTHERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 92, S70°36'21\"/>

UTILITY STATEMENT:

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

W/ WITH	TC TOP COVER	CONC	CONCRETE	ABBREVIATIONS	RES RESIDENCE	IRC IRON ROD & CAP
CM CONCRETE MONUMENT	WV WATER VALVE	D	CENTRAL ANGLE	ILLEG. ILLEGIBLE	—FC— BURIED FIBER OPTIC CABLE	IR IRON ROD & CAP
TDB TOP OF BANK	T8B TRAFFIC SIGNAL BOX	R	RADIUS	INV INVERT	—T— BURIED TELEPHONE LINE	IRP IRON PIPE & CAP
TOE TOE OF SLOPE	PH FIRE HYDRANT	L	ARC LENGTH	SEC SECTION	—W— BURIED WATER LINE	MR METEOD (NO SECTION)
CLS CENTERLINE OF SWALE	WM WATER METER	CB	CHORD BEARING	TWP TOWNSHIP	—E— BURIED ELECTRIC LINE	RCP REINFORCED CONCRETE PIPE
STA STATION	LP LIGHT POLE	CH	CHORD DISTANCE	RIE RANGE	—G— BURIED GAS LINE	CMF CORRUGATED METAL PIPE
CO CLEANOUT	IV IRRIGATION VALVE	FMAL CO	FLORIDA POWER & LIGHT COMPANY	R/W RIGHT OF WAY	—FM— BURIED FORCE MAIN	MH MANHOLE
SAN SANITARY	GA GUY ANCHOR	EL ELEVATION	PLATED DIMENSION	(P) PLATED DIMENSION	—OH— AERIAL UTILITY LINE	MB MAP BOOK
ES ELECTRIC SERVICE	OPP CORRUGATED PLASTIC PIPE	NOVD	NATIONAL GEODETIC VERTICAL DATUM	(N) NON RADIAL	(D) DEEDED DIMENSION	ORB OFFICIAL RECORDS BOOK
HOPE HIGH DENSITY POLYETHYLENE PIPE	DPF DUCTILE IRON PIPE	USC & OS	UNITED STATES COAST AND GEODETIC SURVEY	(N&D) NAD 83	(C) CALCULATED DIMENSION	ID IDENTIFICATION
VCP VITREOUS CLAY PIPE	PVC POLYVINYL CHLORIDE	DRIVEWAY	CENTERLINE	REC RECOVERED	(TP) TYPICAL	IB IDENTIFICATION
CV CHECK VALVE	DW DRIVEWAY				(FOT) FLORIDA DEPARTMENT OF TRANSPORTATION	REC RECOVERED

LEGEND

- IRON ROD WITH CAP
- IRON PIPE WITH CAP
- IRON PIPE
- CONCRETE MONUMENT
- PERMANENT REFERENCE MONUMENT
- ▲ FORCE MAIN VALVE
- ▲ WATER VALVE
- ▲ WATER METER
- ▲ FIRE HYDRANT
- TELEPHONE BOX
- TRAFFIC SIGNAL BOX
- ELECTRIC BOX
- CABLE TELEVISION BOX
- MAIL BOX
- LIGHT POLE
- UTILITY POLE
- GUY ANCHOR
- CLEAN OUT
- SIGN
- TREE
- EXISTING ELEVATION
- TELEPHONE MANHOLE
- SANITARY MANHOLE
- STORM MANHOLE

ADDITIONAL ABBREVIATIONS—TREE LEGEND

CP	CAMPOR TREE	SB	SUGARBERRY TREE	CD	CEDAR TREE	EM	ELM TREE	CIT	CITRUS TREE	PN	PINE TREE	PM	PALM TREE	HY	HOLLY
OK24"8															

CP CITY OF DAYTONA BEACH, FLORIDA

SCALE: 1"=100'

TYPE OF SURVEY	SURVEY DATE	JOB NUMBER	PARTY CHIEF	DRAWN BY	CHECKED BY
BOUNDARY SURVEY	08/01/2016	16-0881	SKS	JZ	JZ/SKS
REVISED BOUNDARY SURVEY	08/17/2017	17-0932	KH	MDB	JZ
TOPOGRAPHIC SURVEY					
FINAL IMPROVEMENTS					
RECERTIFICATION					

SLIGER & ASSOCIATES, INC.
 PROFESSIONAL LAND SURVEYORS
 3921 NOVA ROAD
 PORT ORANGE, FL 32127
 (386) 761-5385
 LICENSED BUSINESS CERTIFICATION NUMBER 3019
 www.sligerassociates.com
 Copyright © 2016 Sliger & Associates, Inc.

PLAT PREPARED FOR THE FOLLOWING: (ONLY THE LAST DATE IS CERTIFIED ON SEALED COPY)

THIS PLAT OF SURVEY IS CERTIFIED TO AND PREPARED FOR THE SOLE AND EXCLUSIVE BENEFIT OF THE ENTITIES AND/OR INDIVIDUALS LISTED BELOW, ON THE MOST CURRENT DATE, AND SHALL NOT BE RELIED UPON BY ANY OTHER ENTITY OR INDIVIDUAL WHOMSOEVER.

TYPE OF SURVEY	CERTIFIED TO	SURVEY DATE	JOB NUMBER
BOUNDARY	CITY OF DAYTONA BEACH, FLORIDA	8-18-2017	17-0932

NOT CERTIFIED TO ANY ENTITIES AND/OR INDIVIDUALS OTHER THAN THOSE LISTED ABOVE.

VOLUSIA SAFE HARBOR
RED JOHN DRIVE & W.
INTERNATIONAL SPEEDWAY BLVD

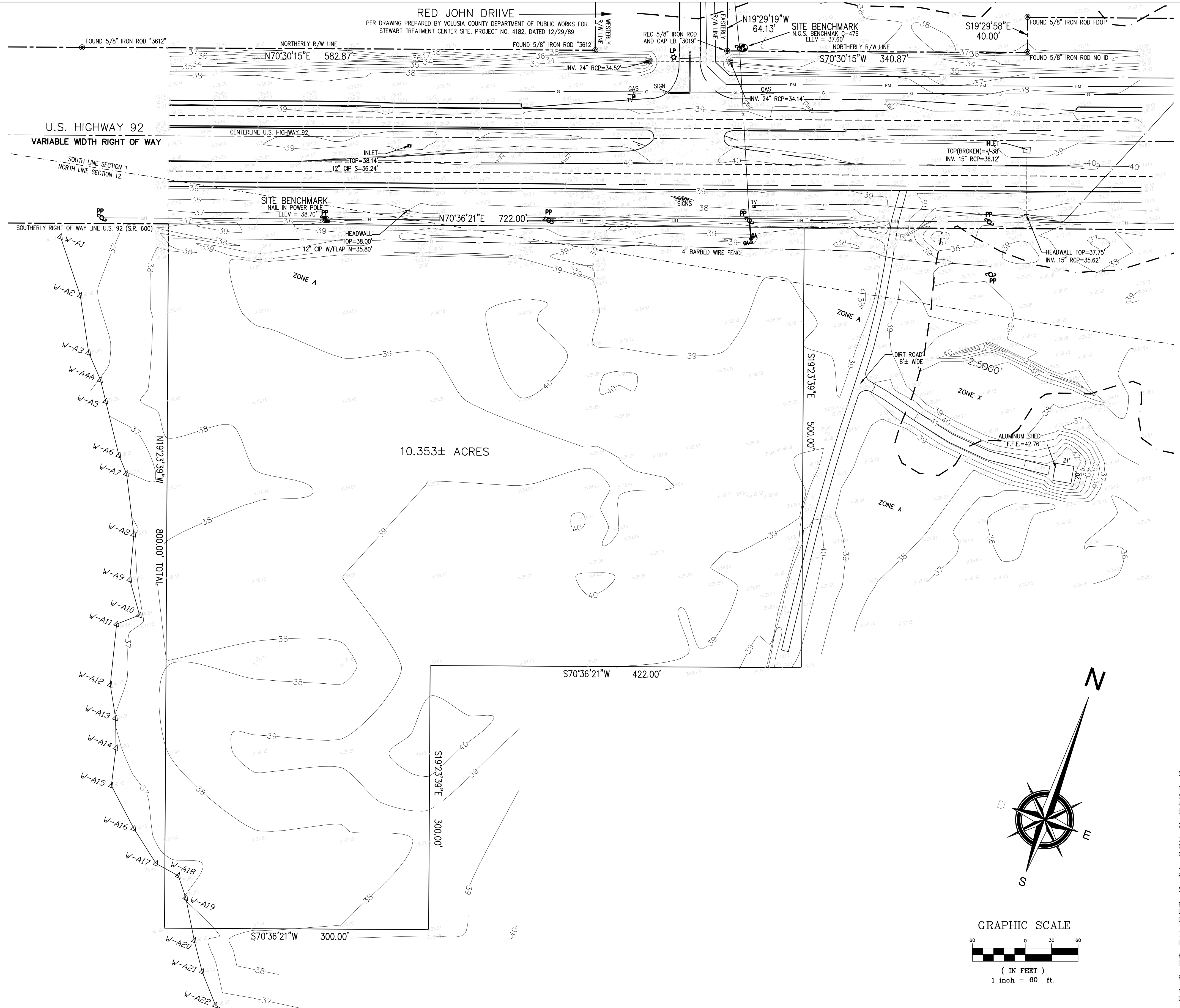
FOR: CITY OF DAYTONA BEACH, FLORIDA

JOB NO. 17-0932

I HEREBY CERTIFY THAT THIS PLAT MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 9J-17.05, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

BOUNDARY SURVEY

J.E. ZAPERT, P.L.S. NO. 4046
 STEVEN T. KRUGER, P.L.S. NO. 4722
 C.O. VAN KLEECK JR., P.S.M. NO. 6149
 MICHAEL S. MURPHY, P.S.M. NO. 6208



SURVEYORS NOTES

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- BEARING STRUCTURE BASED ON RECORD DEED AS RECORDED IN O.R.B. 6291, PAGE 3409 OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA, WITH THE BEARING ON THE EAST LINE OF THE NE 1/4, SECTION 12, TOWNSHIP SOUTH, RANGE 31 EAST BEING S00°04'36"E.
- ELEVATIONS REFER TO N.A.V.D. OF 1988, PER N.G.S. BENCHMARK C-476 HAVING A PUBLISHED ELEVATION OF 37.60 FEET.
- UNDERGROUND FOUNDATIONS, IF ANY, NOT LOCATED.
- THIS PROPERTY IS LOCATED IN FLOOD INSURANCE RATE MAP (F.I.R.M.) ZONE X AND A. THIS LOCATION IS DETERMINED BY SCALING FROM F.I.R.M. MAP NO. 12127C0350H. MAP EFFECTIVE DATE: FEBRUARY 19, 2014. APPROXIMATE SCALE: 1" = 2000'.
- "NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."
- UNLESS OTHERWISE SHOWN, RECORD DISTANCES AND DIRECTIONS AND FIELD MEASURED DISTANCES AND DIRECTIONS ARE THE SAME.
- WETLANDS FLAGGED BY BIOLOGICAL CONSULTING SERVICES, INC.
- WETLANDS LINES REVIEWED AND APPROVED BY ST. JOHNS RIVER WATER MANGEMENT DISTRICT REPRESENTATIVE LEE KISSICK ON AUGUST 30, 2017.

DESCRIPTION

A PORTION OF THE SOUTHEAST 1/4 OF SECTION 1, AND THE NORTHEAST 1/4 OF SECTION 12, TOWNSHIP 16 SOUTH, RANGE 31 EAST, ALSO BEING THE NORTHERLY 400.00 FEET OF THAT PROPERTY DESCRIBED AS EXHIBIT B, DAYTONA PARCEL-2, IN OFFICIAL RECORDS BOOK 6291, PAGE 3409 OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE INTERSECTION OF THE EASTERLY LINE OF SECTION 1, TOWNSHIP 16 SOUTH, RANGE 31 EAST AND THE SOUTHERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 92; THENCE ALONG THE SOUTHERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 92, S70°36'21"W 760.60 FEET TO A CONCRETE F.D.O.T MONUMENT; THENCE, CONTINUING ALONG SAID RIGHT OF WAY, N70°36'21"W A DISTANCE OF 868.84 FEET TO THE POINT OF BEGINNING; THENCE, LEAVING SAID RIGHT OF WAY, S19°23'39"E A DISTANCE OF 500.00 FEET; THENCE S70°36'21"W A DISTANCE OF 422.00 FEET; THENCE, S19°23'39"E A DISTANCE OF 300.00 FEET; THENCE, S70°36'21"W A DISTANCE OF 300.00 FEET; THENCE, N19°23'39"W A DISTANCE OF 800.00 FEET TO A POINT IN THE SOUTHERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 92; THENCE, ALONG THE SOUTHERLY RIGHT OF WAY LINE OF U.S. HIGHWAY 92 N70°36'21"E A DISTANCE OF 722.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 10.353 ACRES MORE OR LESS.

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

LEGEND

●	IRON ROD WITH CAP	—FC—	BURIED FIBER OPTIC CABLE	IRC	IRON ROD & CAP
○	IRON PIPE WITH CAP	—T—	BURIED TELEPHONE LINE	IPC	IRON PIPE & CAP
○	IRON PIPE	—W—	BURIED WATER LINE	MR	METRIC P&O SECTION
○	CONCRETE MONUMENT	—E—	BURIED ELECTRIC LINE	RCF	REINFORCED CONCRETE PIPE
○	PERMANENT REFERENCE MONUMENT	—G—	BURIED GAS LINE	CM	CORRUGATED METAL PIPE
▲	PERMANENT CONTROL POINT	—TV—	BURIED TELEVISION LINE	MH	MANHOLE
▲	FORCE MAIN VALVE	—FM—	BURIED FORCE MAIN	MB	MAP BOOK
▲	WATER VALVE	—OH—	AERIAL UTILITY LINE	IP	IRON PIPE
▲	WATER METER	—P—	PLATTED DIMENSION	ORB	OFFICIAL RECORDS BOOK
▲	FIRE HYDRANT	—(P)—	EL ELEVATION	PG	PAGE
▲	TELEPHONE BOX	—(NR)—	NON RADIAL	ID	IDENTIFICATION
▲	TRAFFIC SIGNAL BOX	—(R)—	RADIAL	USC & OS	UNITED STATES COAST AND GEODETIC SURVEY
▲	ELECTRIC BOX	—(D)—	DEEDED DIMENSION	(R)	RADIAL
▲	CABLE TELEVISION BOX	—(M)—	MEASURED DIMENSION	(TYP)	TYPICAL
▲	MAIL BOX	—(C)—	CALCULATED DIMENSION	N&D	NAIL AND DISK
▲	LIGHT POLE	—(FOT)—	FLORIDA DEPARTMENT OF TRANSPORTATION	REC	RECOVERED
▲	UTILITY POLE				
▲	GUY ANCHOR				
▲	CLEAN OUT				
▲	SIGN				
▲	TREE				
▲	EXISTING ELEVATION				
▲	TELEPHONE MANHOLE				
▲	SANITARY MANHOLE				
▲	STORM MANHOLE				

ADDITIONAL ABBREVIATIONS—TREE LEGEND

CP	CAMPHOR TREE	SB	SUGARBERRY TREE	TREE SIZE (INCHES)	TREE TYPE
MP	MAPLE TREE	CD	CEDAR TREE	DIAMETER AT BREAST HEIGHT	MULTIPLE TRUNKS
SYC	SYCAMORE TREE	EM	ELM TREE		
OK	OAK TREE	CIT	CITRUS TREE		
SG	SWEET GUM TREE	PN	PINE TREE		
HK	HICKORY TREE	PM	PALM TREE		
CB	CHINABERRY TREE	HY	HOLLY		

CP: CITY OF DAYTONA BEACH, FLORIDA

SCALE: 1"=60'

FIELD BOOK:	1390	PAGE(S):	2-5	SHEET	2 OF 2
TYPE OF SURVEY		SURVEY DATE	8/18/2016	JOB NUMBER	17-0932
SPECIFIC PURPOSE		PARTY CHIEF		DRAWN BY	MDB
BOUNDARY SURVEY		CHECKED BY	JZ		
TOPOGRAPHIC SURVEY					
FOUNDATION LOCATION					
FINAL IMPROVEMENTS					
RECERTIFICATION					

SLIGER & ASSOCIATES, INC.
PROFESSIONAL LAND SURVEYORS

3921 NOVA ROAD
PORT ORANGE, FL 32127
(386) 761-5385
www.sligerassociates.com

LICENSED BUSINESS CERTIFICATION NUMBER 3019

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PLAT PREPARED FOR THE FOLLOWING: (ONLY THE LAST DATE IS CERTIFIED ON SEALED COPY)

TYPE OF SURVEY	CERTIFIED TO	SURVEY DATE	JOB NUMBER
TOPOGRAPHIC	CITY OF DAYTONA BEACH, FLORIDA	8-18-2017	17-0932

THIS PLAT OF SURVEY IS CERTIFIED TO AND PREPARED FOR THE SOLE AND EXCLUSIVE BENEFIT OF THE ENTITIES AND/OR INDIVIDUALS LISTED BELOW, ON THE MOST CURRENT DATE, AND SHALL NOT BE RELIED UPON BY ANY OTHER ENTITY OR INDIVIDUAL WHOMSOEVER.

NOT CERTIFIED TO ANY ENTITIES AND/OR INDIVIDUALS OTHER THAN THOSE LISTED ABOVE.

VOLUSIA SAFE HARBOR
RED JOHN DRIVE & W. INTERNATIONAL SPEEDWAY BLVD

FOR: CITY OF DAYTONA BEACH, FLORIDA

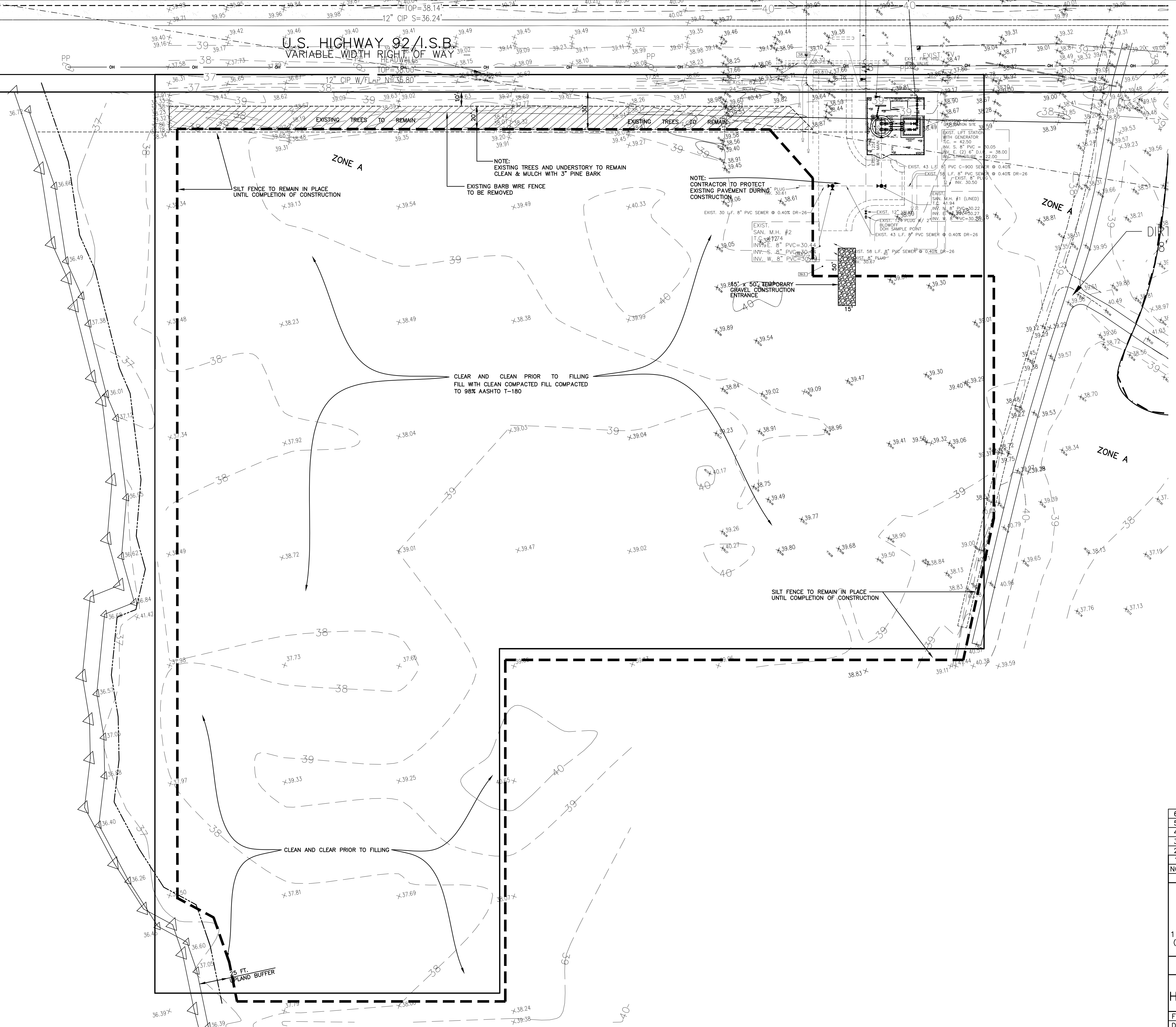
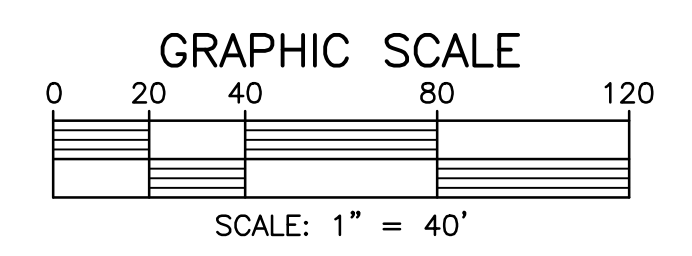
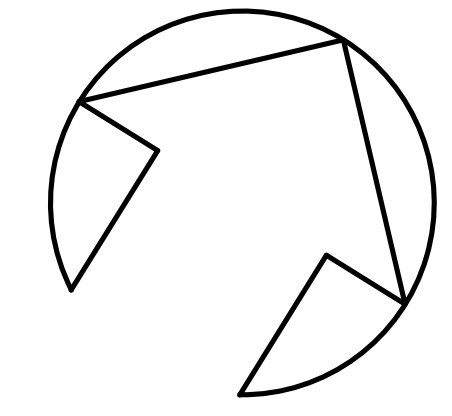
JOB NO. 17-0932

TOPOGRAPHIC SURVEY

I HEREBY CERTIFY THAT THIS PLAT MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 6J-17.05, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

J.E. ZAPERT, P.L.S. NO. 4046
STEVEN T. KRUGER, P.L.S. NO. 4722
C.O. VAN KLEECK JR., P.S.M. NO. 6149
MICHAEL S. MURPHY, P.S.M. NO. 6208

U.S. HIGHWAY 92 / I.S.B.
VARIABLE WIDTH RIGHT OF WAY



DEV #2017-104
CITY APPROVAL STAMP

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FDOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SJRWMD	BVB

REVISIONS

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

DEMOLITION & EROSION CONTROL PLAN

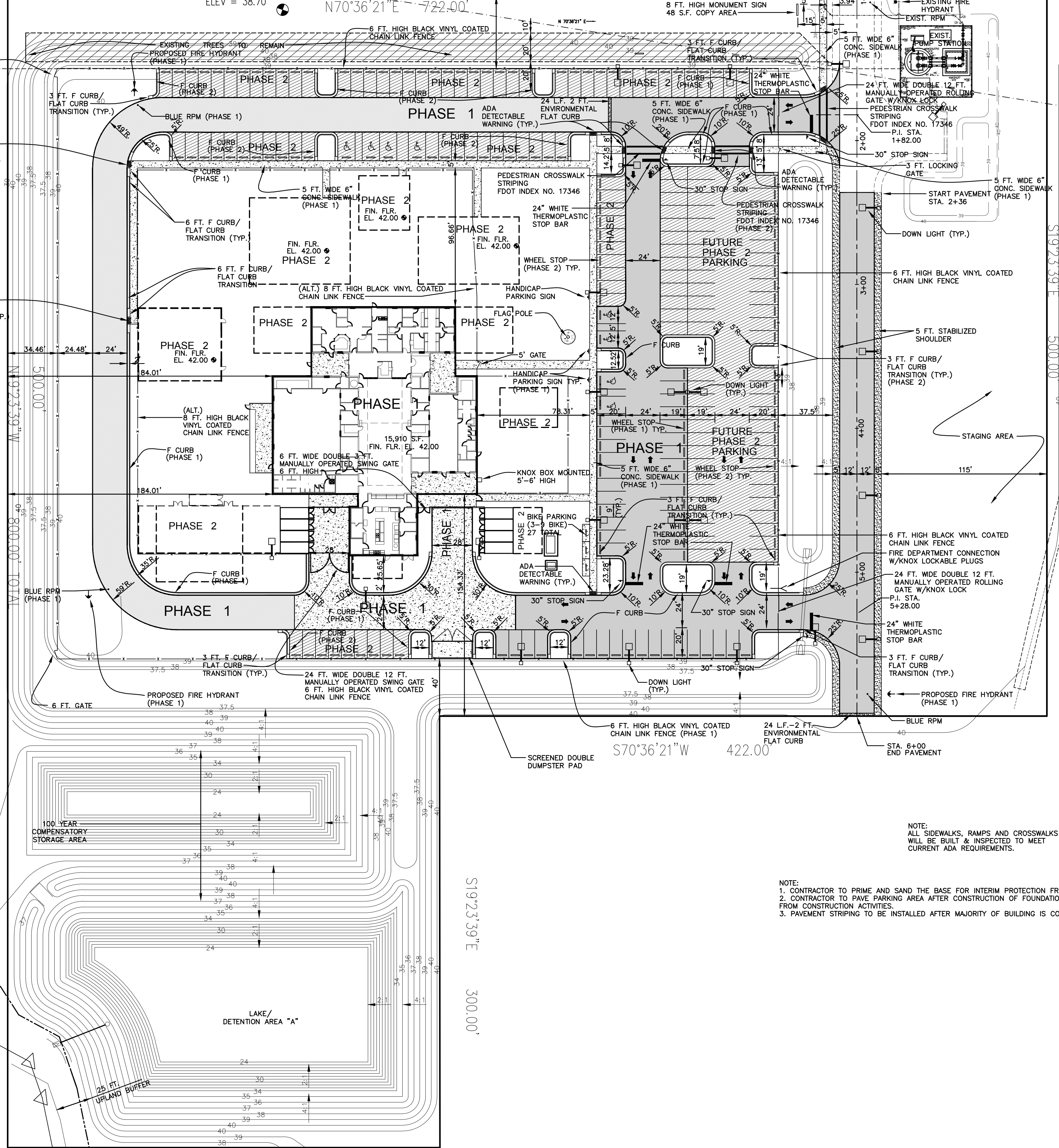
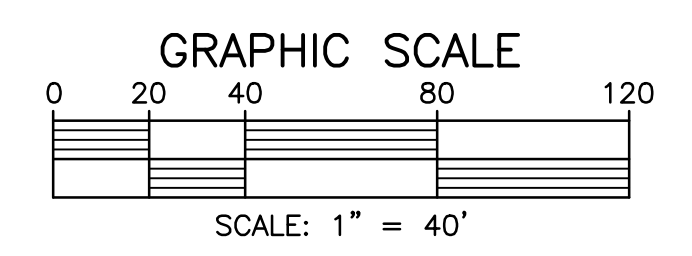
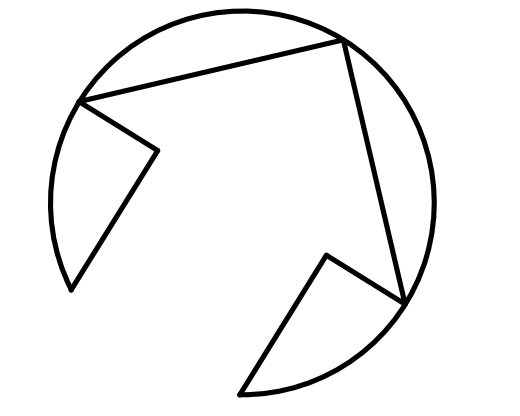
**FIRST STEP
HOMELESS ASSISTANCE SHELTER**
DSAYTONA BEACH * FLORIDA

FILE NO. REV1_1622SP.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: 1" = 40'	SHEET 4 OF 18

SEAL

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U.S. HIGHWAY 92 / I.S.B.
 VARIABLE WIDTH RIGHT OF WAY -
 SITE BENCHMARK
 NAIL IN POWER POLE
 ELEV = 38.70' N70°36'21"E -722.00'



LEGEND

	1-1/2" TYPE SP 9.5 ASPHALTIC CONCRETE SURFACE COURSE
	6" CRUSHED CONCRETE BASE COURSE
	LBR 140 6" COMPACTED SUBBASE LBR 40 OR FBV 75 P.S.I.
	5 FT. WIDE 6" STABILIZED SHOULDER FBV 75 P.S.I.
	24 FT. WIDE 8" CRUSHED CONCRETE BASE LBR 140 10" COMPACTED SUBBASE LBR 40 OR FBV 75 P.S.I. (PHASE 1)
	6" CONCRETE 3,500 P.S.I. ON COMPACTED BASE COMPACTED TO 98% AASHTO T-180
	FUTURE PHASE 2 PARKING

DEV #2017-104
 CITY APPROVAL STAMP

- NOTE:
 1. CONTRACTOR TO PRIME AND SAND THE BASE FOR INTERIM PROTECTION FROM WEAR.
 2. CONTRACTOR TO PAVE PARKING AREA AFTER CONSTRUCTION OF FOUNDATION PACKAGE TO MINIMIZE DAMAGE FROM CONSTRUCTION ACTIVITIES.
 3. PAVEMENT STRIPING TO BE INSTALLED AFTER MAJORITY OF BUILDING IS CONSTRUCTED.

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FDOT COMMENTS	BVB
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2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SJRWMD	BVB

REVISIONS

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

SITE PLAN

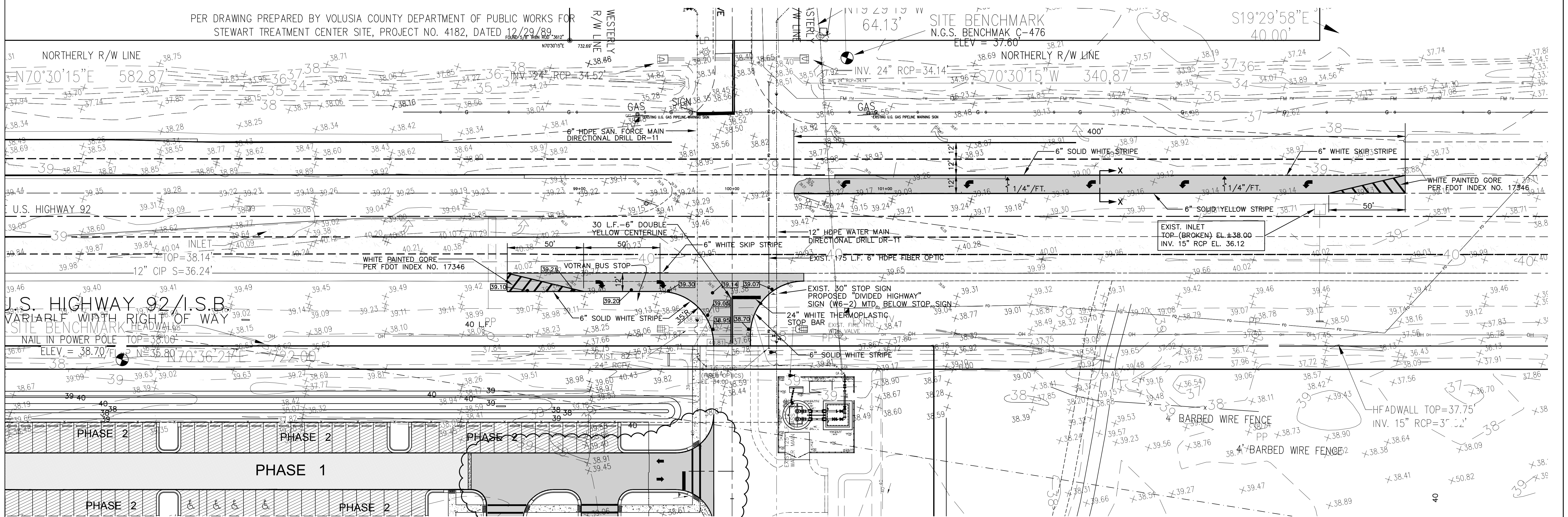
**FIRST STEP
 HOMELESS ASSISTANCE SHELTER**
 DSA/TONA BEACH * FLORIDA

FILE NO. REV1_1622SP.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: 1" = 40'	SHEET 5 OF 18

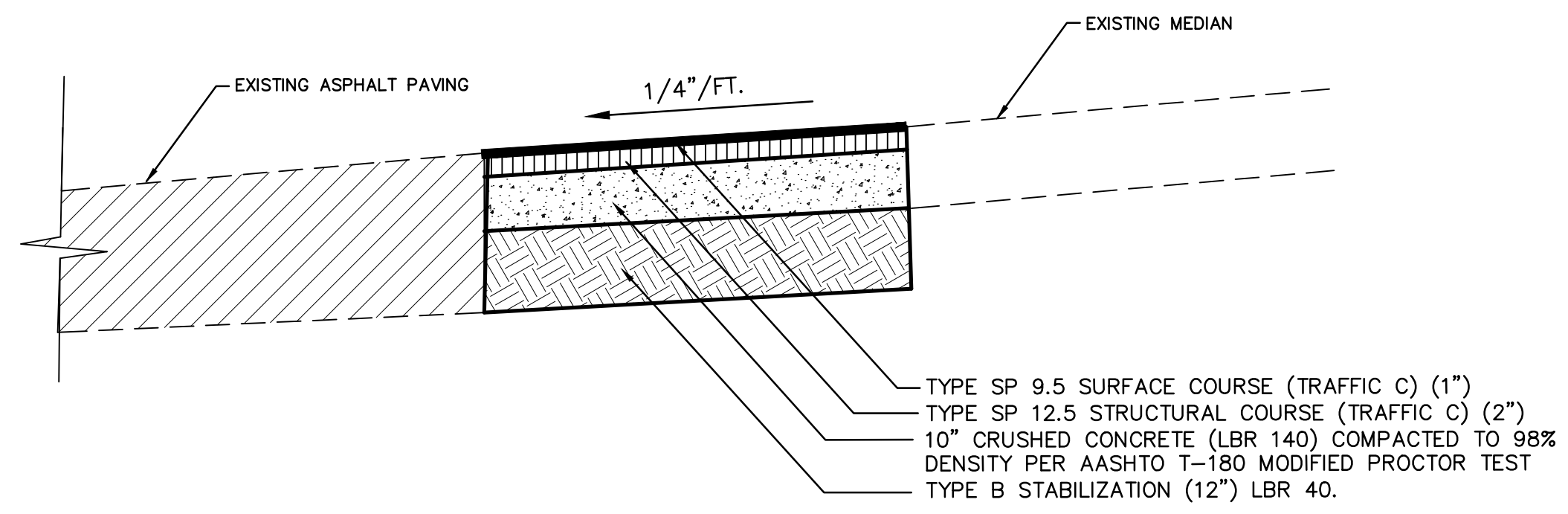
SEAL

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PER DRAWING PREPARED BY VOLUSIA COUNTY DEPARTMENT OF PUBLIC WORKS FOR
STEWART TREATMENT CENTER SITE, PROJECT NO. 4182, DATED 12/29/89

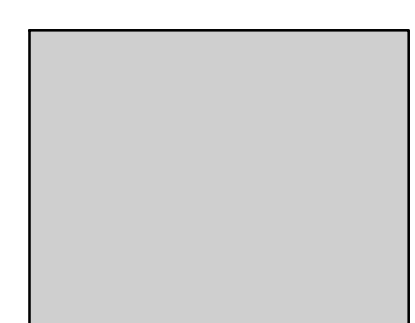


SEE SITE PLAN SHEETS 5 & 6 FOR PAVING SPECIFICATIONS ON THIS SITE

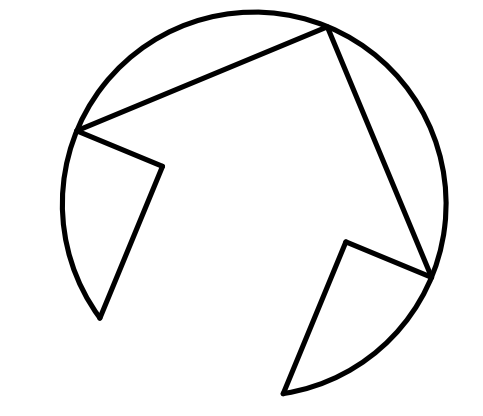


TYPICAL FDOT PAVEMENT SECTION X-X

LEGEND



TYPE SP 9.5 SURFACE COURSE (TRAFFIC C) (1")
TYPE SP 12.5 STRUCTURAL COURSE (TRAFFIC C) (2")
10" CRUSHED CONCRETE (LBR 140) COMPACTED TO 98%
DENSITY PER AASHTO T-180 MODIFIED PROCTOR TEST
TYPE B STABILIZATION (12") LBR 40



GRAPHIC SCALE
SCALE: 1" = 30'

DEV #2017-104
CITY APPROVAL STAMP

NOTE:
1. ALL AFFECTED SIDEWALKS, RAMPS AND CROSSWALKS SHALL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
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4	2/7/18	REVISED PER FDOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SURWMD	BVB

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(386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com
CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

I.S.B. IMPROVEMENT PLAN

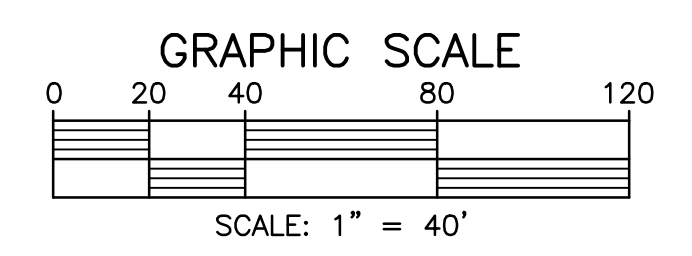
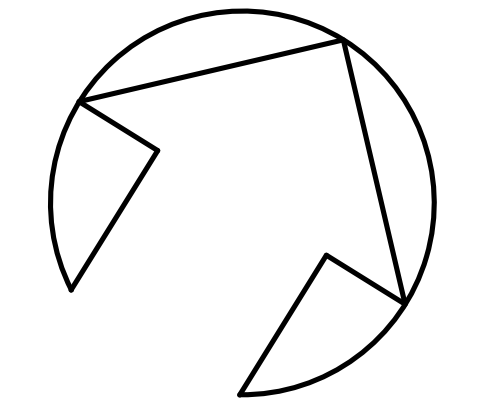
FIRST STEP HOMELESS ASSISTANCE SHELTER
DAYTONA BEACH * FLORIDA

FILE NO. 16225P.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: 1"=30'	SHEET 6A OF 18

SEAL

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U.S. HIGHWAY 92 I.S.B.
 VARIABLE WIDTH RIGHT OF WAY
 SITE BENCHMARK
 NAIL IN POWER POLE TOP=38.00
 ELEV. = 38.70
 N 38.80 W 70.36 27.4



LEGEND

	EXISTING SPOT GRADE
	EXISTING GRADE
	EXISTING CONTOUR
	PROPOSED GRADE
	PROPOSED CONTOUR
	PROPOSED DRAINAGE FLOW PATTERN

DEV #2017-104
 CITY APPROVAL STAMP

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2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SURWMD	BVB

REVISIONS

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 CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

CIVIL SITE PLAN

**FIRST STEP
 HOMELESS ASSISTANCE SHELTER**
 DSAYTONA BEACH * FLORIDA

FILE NO. REV1_1622SP.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: 1" = 40'	SHEET 6 OF 18

SEAL

6.52'

PRE-TREATMENT POND
 BOTTOM EL. 37.50
 OVERFLOW EL. 38.90
 MEAN YR/24 HR DHW EL. 39.24
 25 YR/24 HR DHW EL. 39.55
 100 YR/24 HR DHW EL. 39.64

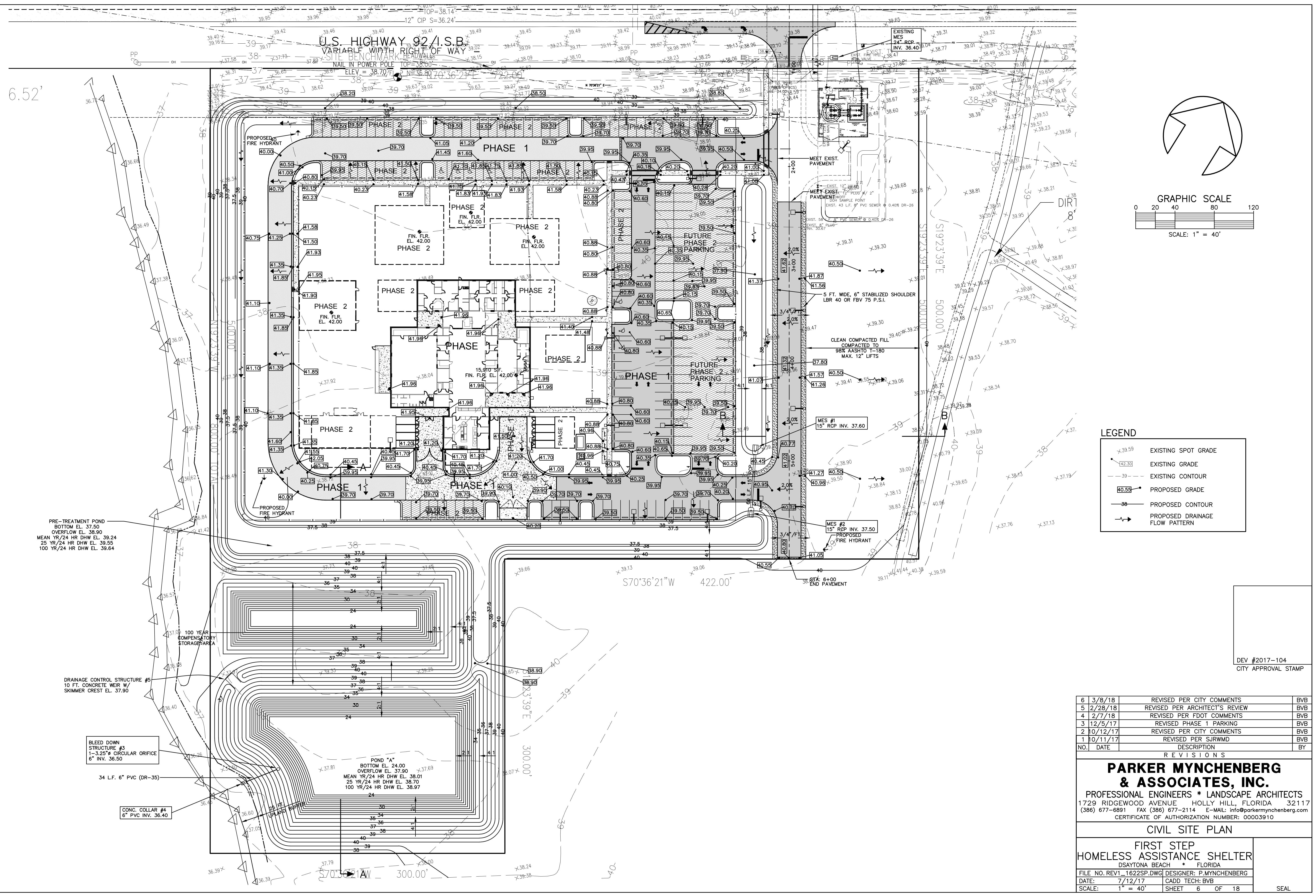
BLEED DOWN
 STRUCTURE #3
 1-3.25" CIRCULAR ORIFICE
 6" INV. 36.50

CONC. COLLAR #4
 6" PVC INV. 36.40

100 YEAR
 COMPENSATORY
 STORAGE AREA

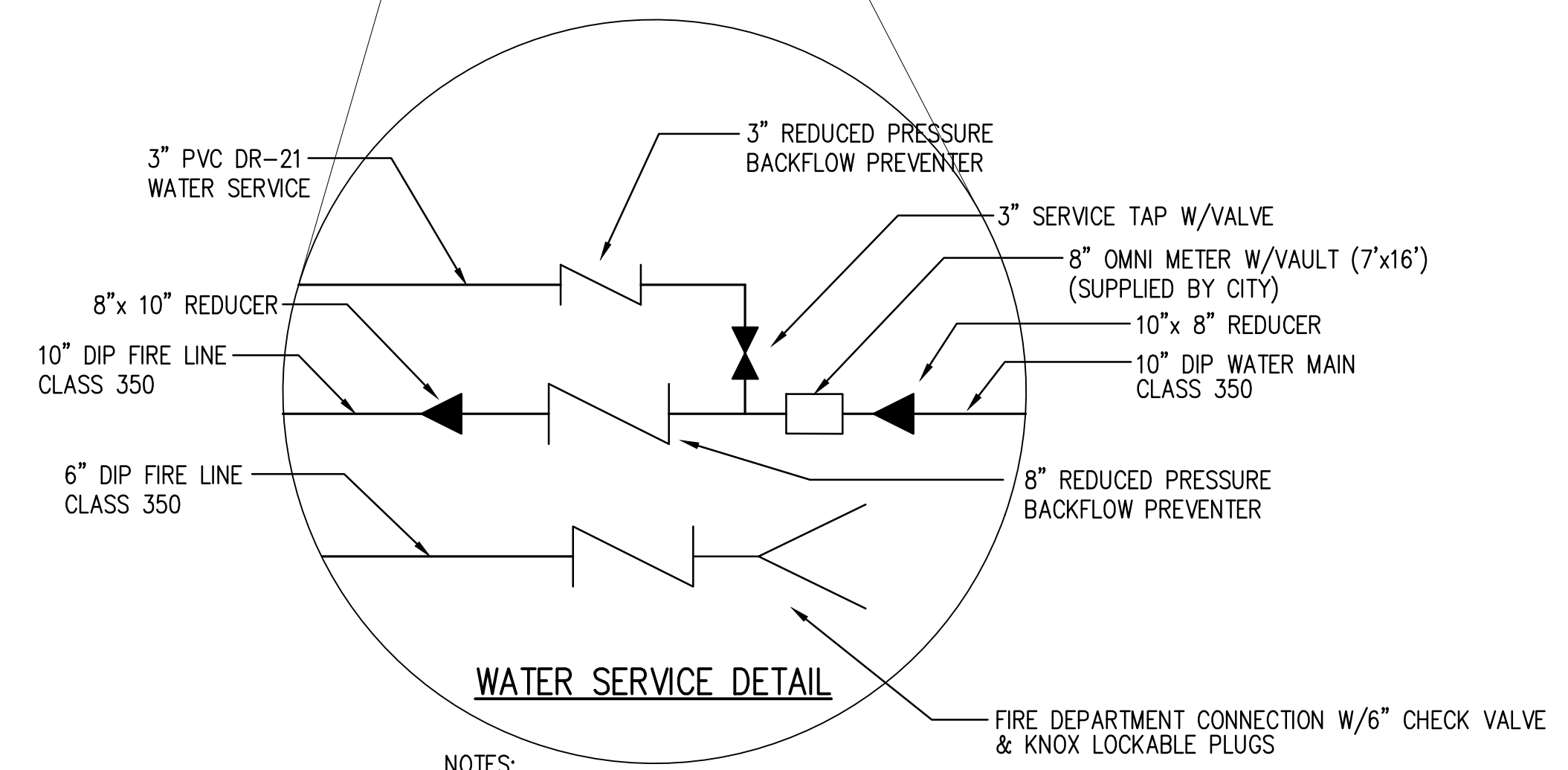
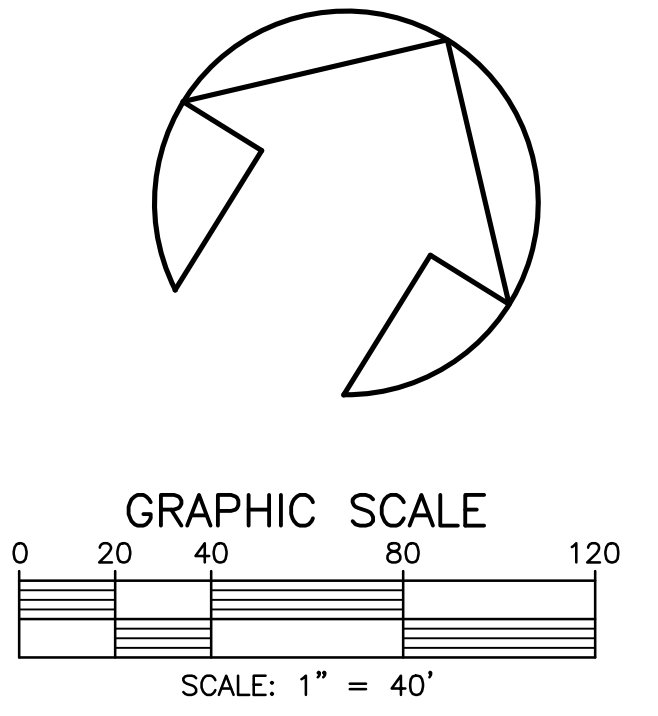
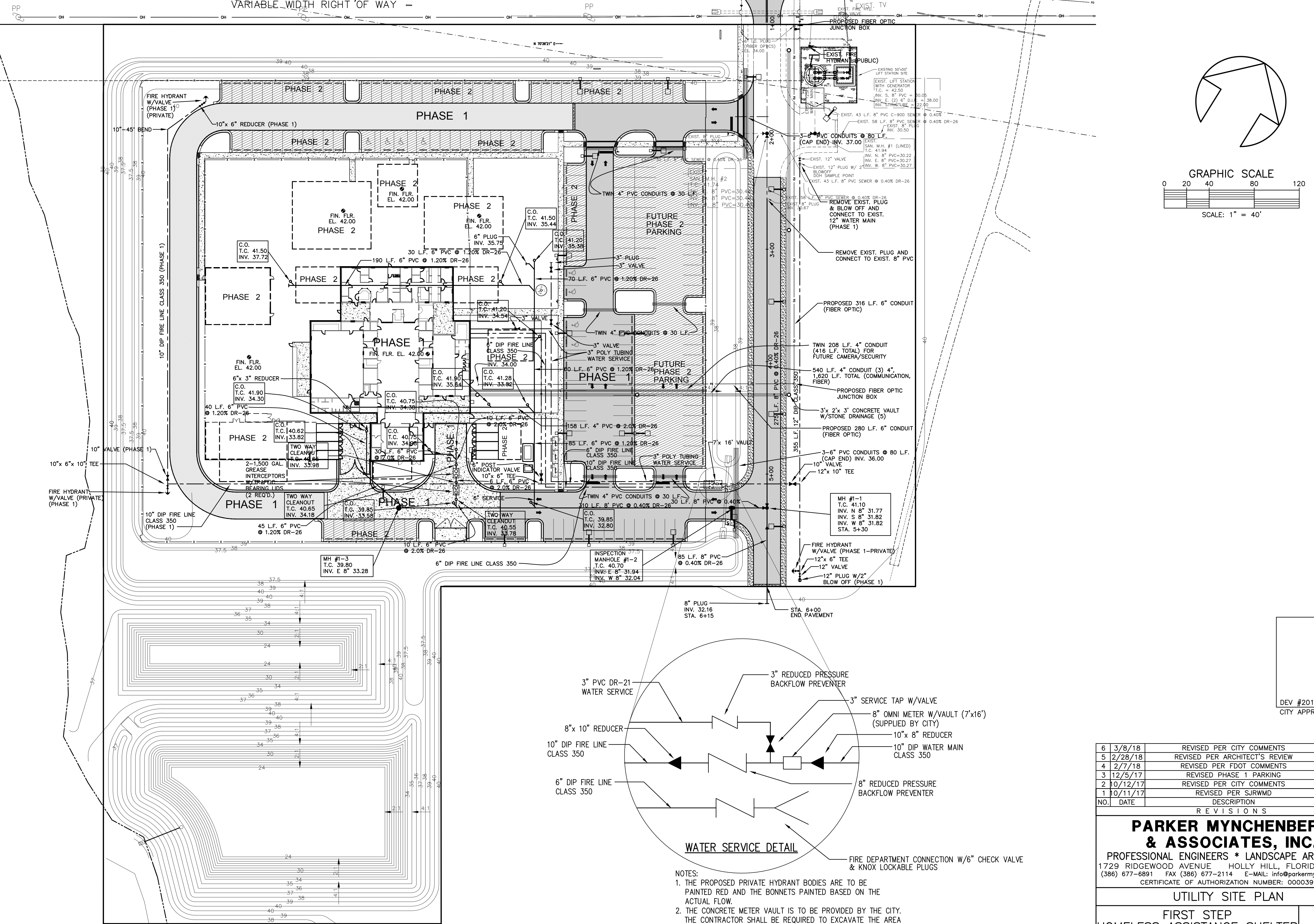
DRAINAGE CONTROL STRUCTURE #5
 10 FT. CONCRETE WEIR W/
 SKIMMER CREST EL. 37.90

POND "A"
 BOTTOM EL. 24.00
 OVERFLOW EL. 37.90
 MEAN YR/24 HR DHW EL. 38.01
 25 YR/24 HR DHW EL. 38.70
 100 YR/24 HR DHW EL. 38.97



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U.S. HIGHWAY 92 / I.S.B.
VARIABLE WIDTH RIGHT OF WAY



- NOTES:
1. THE PROPOSED PRIVATE HYDRANT BODIES ARE TO BE PAINTED RED AND THE BONNETS PAINTED BASED ON THE ACTUAL FLOW.
 2. THE CONCRETE METER VAULT IS TO BE PROVIDED BY THE CITY. THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE THE AREA WHERE THE VAULT WILL BE PLACED.

DEV #2017-104
CITY APPROVAL STAMP

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REVISIONS

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(386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com
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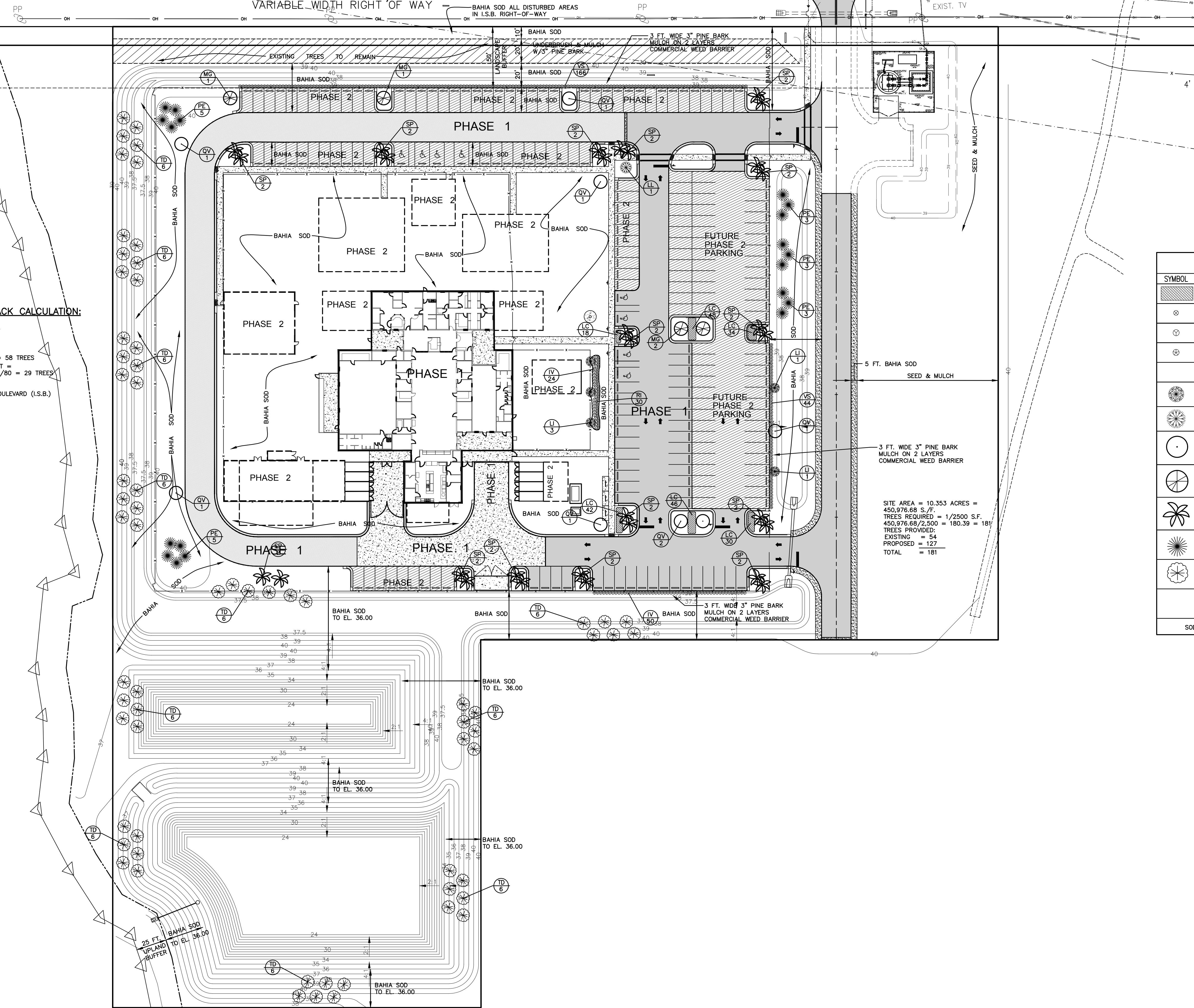
UTILITY SITE PLAN

**FIRST STEP
HOMELESS ASSISTANCE SHELTER**
DSAYTONA BEACH * FLORIDA

FILE NO. REV1_1622SP.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: 1" = 40'	SHEET 7 OF 18

SEAL

U.S. HIGHWAY 92 / I.S.B.
VARIABLE WIDTH RIGHT OF WAY



I.S.B. 50 FT. SCENIC SETBACK CALCULATION:

LENGTH ALONG I.S.B. = 580 L.F.
TOTAL LENGTH TO BE PLANTED = 580 L.F.

REQUIRED PLANTING:

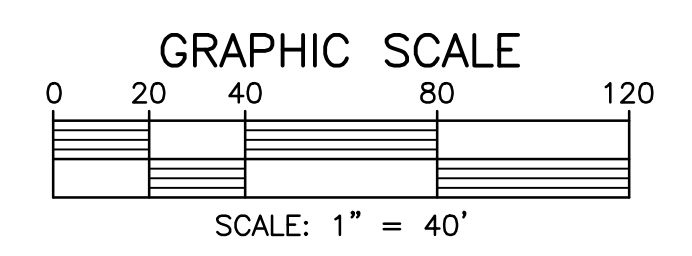
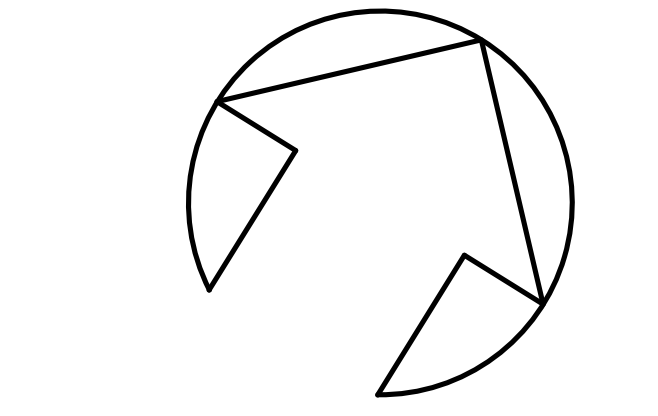
4 SHADE TREES PER 40 LINEAL FEET =
REQUIRED SHADE TREES = 4 X 580/40 = 58 TREES
4 UNDERSTORY TREES PER 80 LINEAL FEET =
REQUIRED UNDERSTORY TREES = 4 X 580/80 = 29 TREES

PLANTING PROVIDED:

TREES ALONG INTERNATIONAL SPEEDWAY BOULEVARD (I.S.B.)
(WITHIN 50 FT. BUFFER)
PROVIDED SHADE TREES = 58
PROVIDED UNDERSTORY TREES = 29

NOTE: EXISTING SHADE TREES, EXISTING UNDERSTORY TREES, AND EXISTING SHRUBS DO NOT MEET THE SCENIC SETBACK REQUIREMENT ABOVE. ADDITIONAL SHADE TREES, UNDERSTORY TREES, AND SHRUBS WILL BE REQUIRED AND APPROVED BY SITE LANDSCAPE ARCHITECT.

SITE AREA = 10.353 ACRES =
450,976.68 S.F.
TREES REQUIRED = 1/2500 S.F.
450,976.68/2,500 = 180.39 = 181
TREES PROVIDED:
EXISTING = 54
PROPOSED = 127
TOTAL = 181



PLANT LIST

SYMBOL	ABB.	QTY.	BOTANICAL NAME	COMMON NAME	SIZE
[Hatched Box]	LC	202	LANTANA CAMARA	LANTANA	1 GAL., 12"-15" SPD. 20" O.C.
[Circle with RI]	RI*	30	RAPHIOLEPIS INDICA	INDIAN HAWTHORN	3 GAL., 24" O.C. 10" HT. MIN.
[Circle with IV]	IV*	74	ILEX VOMITORIA	YAUPOH HOLLY	3 GAL., 30" O.C. 24" HT. MIN.
[Circle with VS]	VS	210	VIBURNUM SUSPENSUM	SANDANKWA VIBURNUM	3 GAL., 30" O.C. 24" HT. MIN.
[Circle with LI]	LI	5	LAGERSTROEMIA INDICA	GRAPE MYRTLE	15 GAL. MIN., MULTI-TRUNK 6'-8' HT.
[Circle with LL]	LL	1	LIGUSTUM LUCIDUM	LIGUSTRUM TREE	15 GAL. MIN., MULTI-TRUNK 5' HT.
[Circle with QV]	QV*	8	QUERCUS VIRGINIANA	LIVE OAK	30 GAL., 12"-11" HT. 2" MIN. CAL.
[Circle with QV]	QV1*	-			65 GAL., 12"-13" HT. 2.7"-3" MIN. CAL.
[Circle with MG]	MG*	4	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	30 GAL., 8'-9" HT. 2.5" MIN. CAL.
[Circle with MG]	MG1*	-			65 GAL., 11"-12" HT. 3"-3.5" MIN. CAL.
[Circle with SP]	SP*	30	SABAL PALMETTO	SABAL PALM	14"-16" CLEAN TRUNK
[Circle with PE]	PE*	19	PINUS ELLIOTTI	SLASH PINE	15 GAL., 7'-8" HT. 2"-2.5" MIN. CAL.
[Circle with TD]	TD*	66	TAXODIUM DISTICHUM	BALD CYPRESS	30 GAL., 9.5"-10" HT. 2.5"-2.75" MIN. CAL.
[Circle with SOD]	SOD		ARGENTINE BAHIA		

* DENOTES XERIC/DROUGHT TOLERANT PLANT

DEV #2017-104
CITY APPROVAL STAMP

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REVISIONS

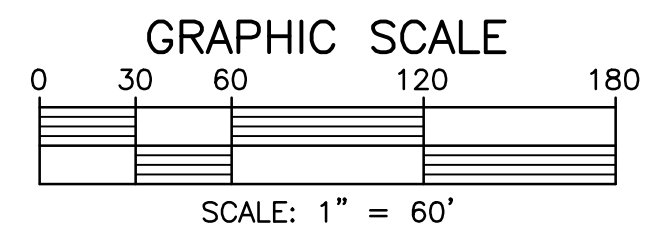
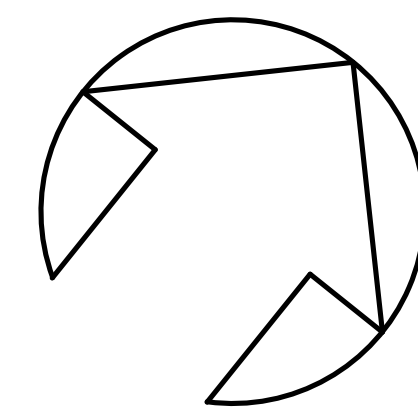
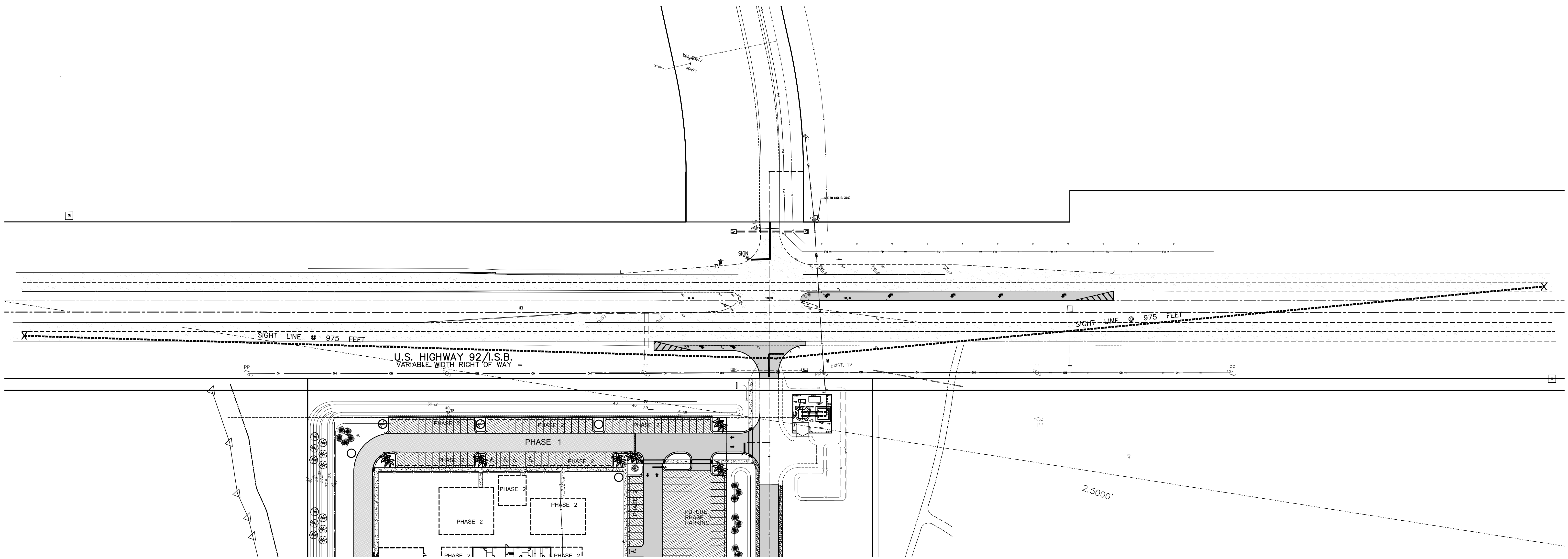
PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
(386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com
CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

LANDSCAPE PLAN

FIRST STEP HOMELESS ASSISTANCE SHELTER
DSAYTONA BEACH * FLORIDA

FILE NO. REV1_1622SP.DWG DESIGNER: P.MYNCHENBERG
DATE: 7/12/17 CADD TECH: BVB
SCALE: 1" = 40' SHEET 8 OF 18 SEAL

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DEV #2017-104
CITY APPROVAL STAMP

DESIGN NOTES

- The information shown on this sheet is intended solely for the purpose of clear sight development and maintenance of intersecting highways, roads and streets, and is not intended to be used to establish right-of-way or property lines or to establish clear sight corridors. An analysis of sight distances shall be conducted for all intersections.
- Designs are based on the AASHTO Policy on Sight Distance Design of Intersecting and Overlapping Intersections, FHWA Report No. FHWA-RD-80-013, and the AASHTO Policy on Sight Distance Design of Intersecting and Overlapping Intersections, FHWA Report No. FHWA-RD-80-013, and the AASHTO Policy on Sight Distance Design of Intersecting and Overlapping Intersections, FHWA Report No. FHWA-RD-80-013.
- The minimum driver eye height of 5.5 feet from the edge of the traveled way was used in all calculations. An eye height of 6.0 feet was used for all calculations where the driver eye height of 5.5 feet was not specified by a document. An eye height of 5.5 feet was used for all calculations where the driver eye height of 5.5 feet was not specified by a document.
- Any unobstructed intersection sight distance shall be developed based on AASHTO's "Clear of Obstructions" (C.O.O.) Traffic Signal Control. At signalized intersections, the sight distance shall be developed based on the AASHTO's "Clear of Obstructions" (C.O.O.) Traffic Signal Control. At signalized intersections, the sight distance shall be developed based on the AASHTO's "Clear of Obstructions" (C.O.O.) Traffic Signal Control.

GENERAL NOTES

- Designs apply to both rural and urban intersections under clear sight control or flashing beacon control. For all signalized intersections, the design shall be based on the AASHTO's "Clear of Obstructions" (C.O.O.) Traffic Signal Control. At signalized intersections, the sight distance shall be developed based on the AASHTO's "Clear of Obstructions" (C.O.O.) Traffic Signal Control.
- Sight distance of 975 feet is required along the major roadway from the center of the intersection to the edge of the minor roadway in the center of the major roadway. The sight distance shall be developed based on the AASHTO's "Clear of Obstructions" (C.O.O.) Traffic Signal Control.
- The sight distance of 975 feet is required along the major roadway from the center of the intersection to the edge of the minor roadway in the center of the major roadway. The sight distance shall be developed based on the AASHTO's "Clear of Obstructions" (C.O.O.) Traffic Signal Control.
- The sight distance of 975 feet is required along the major roadway from the center of the intersection to the edge of the minor roadway in the center of the major roadway. The sight distance shall be developed based on the AASHTO's "Clear of Obstructions" (C.O.O.) Traffic Signal Control.

TREE SPACING TABLE**

Distance (ft)	0-30	30-60	60-90	90-120	120-150	150-180	180-210	210-240	240-270	270-300
Minimum Spacing (ft)	22	21	21	21	21	21	21	21	21	21

PLAN
Special Areas Limited to Ground Cover

DATE: 07/10/17
DESIGNER: P.MYNCHENBERG
CHECKER: BVB
SHEET NO: 546
SHEET TOTAL: 1

PICTORIAL

PERCEPTION DIAGRAM
SETTING SABAL PALM (STATE TREE) SPACING

WINDOW DETAIL

SHADOW DIAGRAM

PICTORIAL

CHANNELLED DIRECTIONAL MEDIAN OPENINGS

DATE: 07/10/17
DESIGNER: P.MYNCHENBERG
CHECKER: BVB
SHEET NO: 546
SHEET TOTAL: 2

INTERMEDIATE SEMI-TRAILERS (WB-40 & WB-50)

Median (ft) or Less	20' of Medium	40' of Medium	60' of Medium
0-10	100	100	100
10-20	100	100	100
20-30	100	100	100
30-40	100	100	100
40-50	100	100	100
50-60	100	100	100
60-70	100	100	100
70-80	100	100	100
80-90	100	100	100
90-100	100	100	100

PLAN PICTORIAL

INSET A

INSET B

NOTES FOR 4-LANE DIVIDED ROADWAY

- See Note 2 for origin of clear sight line on the minor road.
- Values shown in the tables are the governing sight distance requirements based on AASHTO Table 8.1, "Sight Distance Requirements for Intersecting and Overlapping Intersections."

SIGHT DISTANCES (d₁) & RELATED DISTANCES (d₂, d₃, d₄, & d₅) (FEET)

4 LANE DIVIDED ROADWAY

DATE: 07/10/17
DESIGNER: P.MYNCHENBERG
CHECKER: BVB
SHEET NO: 546
SHEET TOTAL: 5

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FDOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SURVMD	BVB

REVISIONS

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

SIGHT LINE PLAN

FIRST STEP HOMELESS ASSISTANCE SHELTER
DAYTONA BEACH * FLORIDA

FILE NO. 1622SP.dwg DESIGNER: P.MYNCHENBERG
DATE: 7/12/17 CADD TECH: BVB
SCALE: 1" = 60' SHEET 8A OF 18 SEAL

Y:\FIRST STEP FINAL SITE PLAN\REV1_1622SP.dwg, 3/8/2018 4:43:36 PM, DWG To PDF.plt

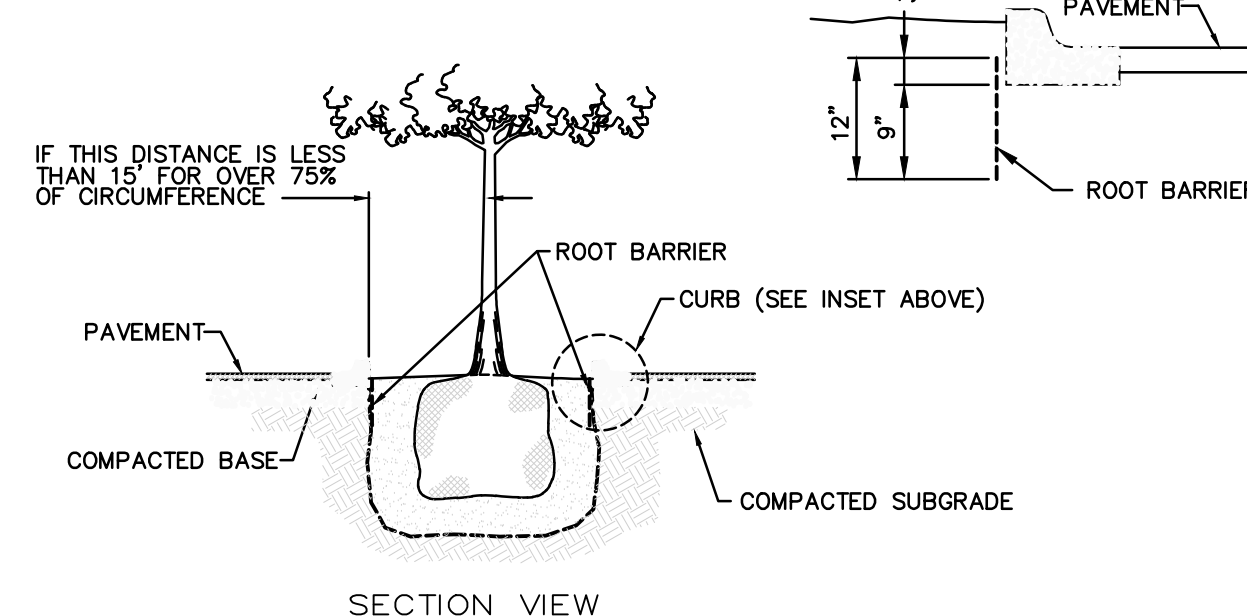
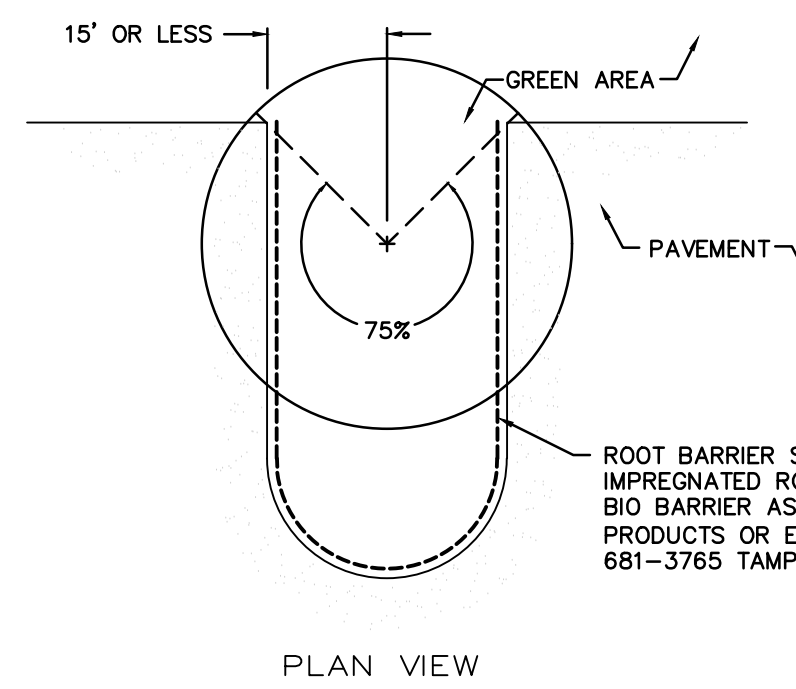
LANDSCAPE NOTES

LANDSCAPE REQUIREMENTS:

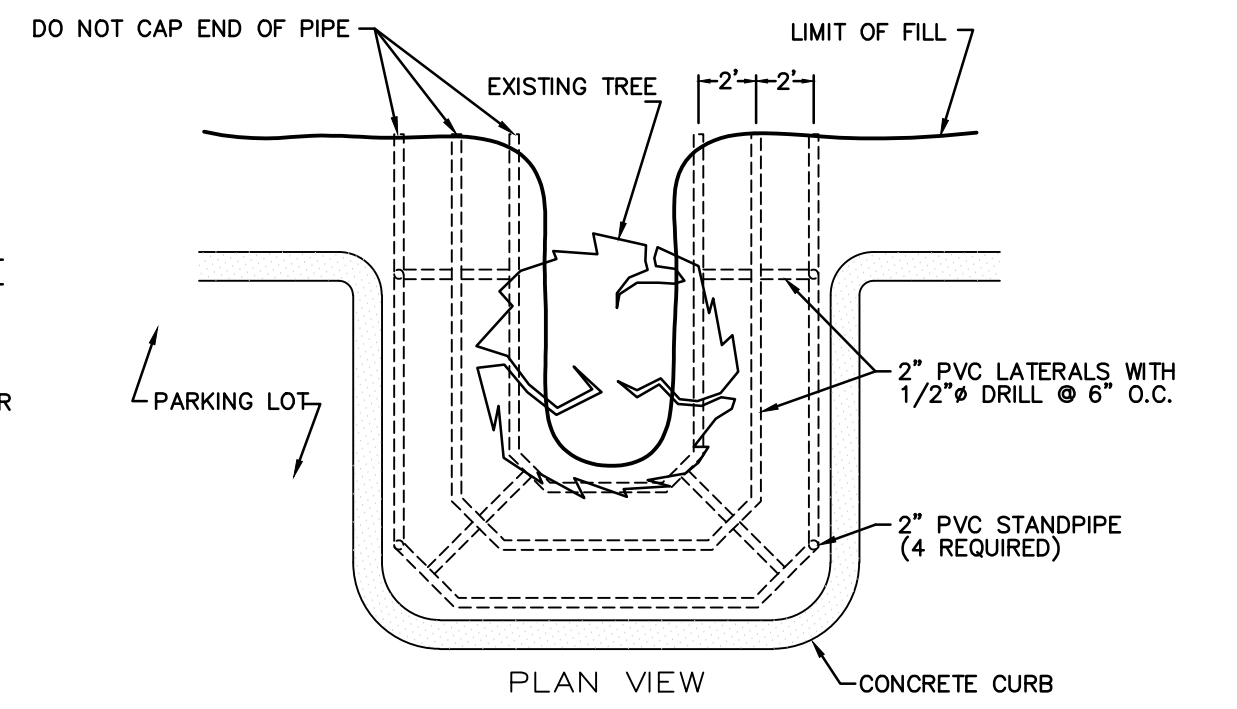
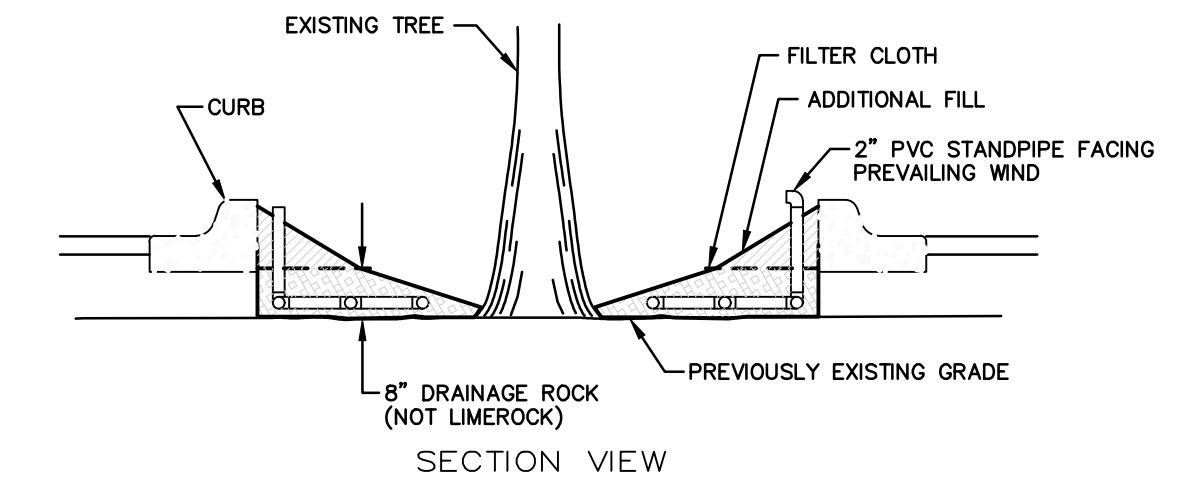
- ALL PLANT MATERIALS SHALL BE FLORIDA NO. 1 GRADE, OR BETTER, ACCORDING TO THE CURRENT "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE. TREES AND SHRUBS ARE TO BE CONTAINER GROWN. NO BALL AND BURLAP OR NON-CONTAINERIZED PLANTS WILL BE ALLOWED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING PROJECT SOILS. THE CONTRACTOR SHALL PROVIDE A CERTIFIED SOILS REPORT TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THAT ON-SITE SOILS ARE ACCEPTABLE FOR PROPER GROWTH OF THE PROPOSED PLANT MATERIAL. SHOULD THE CONTRACTOR FIND POOR SOIL CONDITIONS, THE OWNER'S REPRESENTATIVE SHALL BE CONSULTED PRIOR TO PLANTING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND WORK CALLED FOR IN THE LANDSCAPE PLAN DOCUMENTS. THE PLANT LIST QUANTITIES SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES.
- ALL PLANT BEDS AND ALL EXISTING AND PROPOSED PARKING LOT ISLANDS SHALL BE DRESSED WITH 3" MINIMUM SHREDDED CYPRESS MULCH.
- 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.
- THE CONTRACTOR SHALL DISPOSE OF STUMPS AND MAJOR ROOTS OF ALL PLANTS TO BE REMOVED.
- THE LANDSCAPE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH ALL OTHER WORK TO BE DONE ON SITE, PRIOR TO LANDSCAPE INSTALLATION.
- 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.
- PLANTING BACKFILL MIX SHALL BE 1/4 PEAT, 1/4 COMPOSTED COW MANURE, 1/2 CLEAN SOIL.
- 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.
- 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.
- THE LIVE OAKS SHALL BE CONTAINER GROWN AND NOT BAG AND BURLAP TYPE. LIVE OAKS SHALL BE PLANTED 2" ABOVE GRADE.
- PLANTING PLANS SHALL TAKE PRECEDENCE OVER PLANT LIST IN CASE OF DISCREPANCIES.
- NO CHANGES ARE TO BE MADE WITHOUT THE PRIOR CONSENT OF THE LANDSCAPE ARCHITECT AND OWNER. ADDITIONS AND/OR DELETIONS TO THE PLANT MATERIAL MUST BE APPROVED BY THE PROJECT MANAGER.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN SQUARE FOOTAGE TAKEOFFS AND FIELD VERIFICATIONS FOR 100% SOD COVERAGE FOR ALL ARE SPECIFIED. THE PROJECT MANAGER.
- ALL LANDSCAPE AREAS ARE TO BE PROVIDED WITH AUTOMATIC SPRINKLER SYSTEM WHICH WILL PROVIDE 100% COVERAGE AND 50% OVERLAP.
- LANDSCAPE CONTRACTOR TO PROVIDE DESIGN LANDSCAPE ARCHITECT A DETAILED LANDSCAPE "AS-BUILT".
- THE LANDSCAPE CONTRACTOR IS TO LOCATE AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO BEGINNING WORK. CONTACT PROPER UTILITY COMPANIES AND / OR GENERAL CONTRACTOR PRIOR TO DIGGING FOR FIELD VERIFICATION. THE CITY OF DAYTONA BEACH SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES TO UTILITY OR IRRIGATION LINES.
- THE LANDSCAPE CONTRACTOR IS TO LOCATE AND VERIFY ALL CURRENT DRAWINGS AND CHECK FOR DISCREPANCIES & BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCING WITH THE WORK.

LANDSCAPE CERTIFICATION

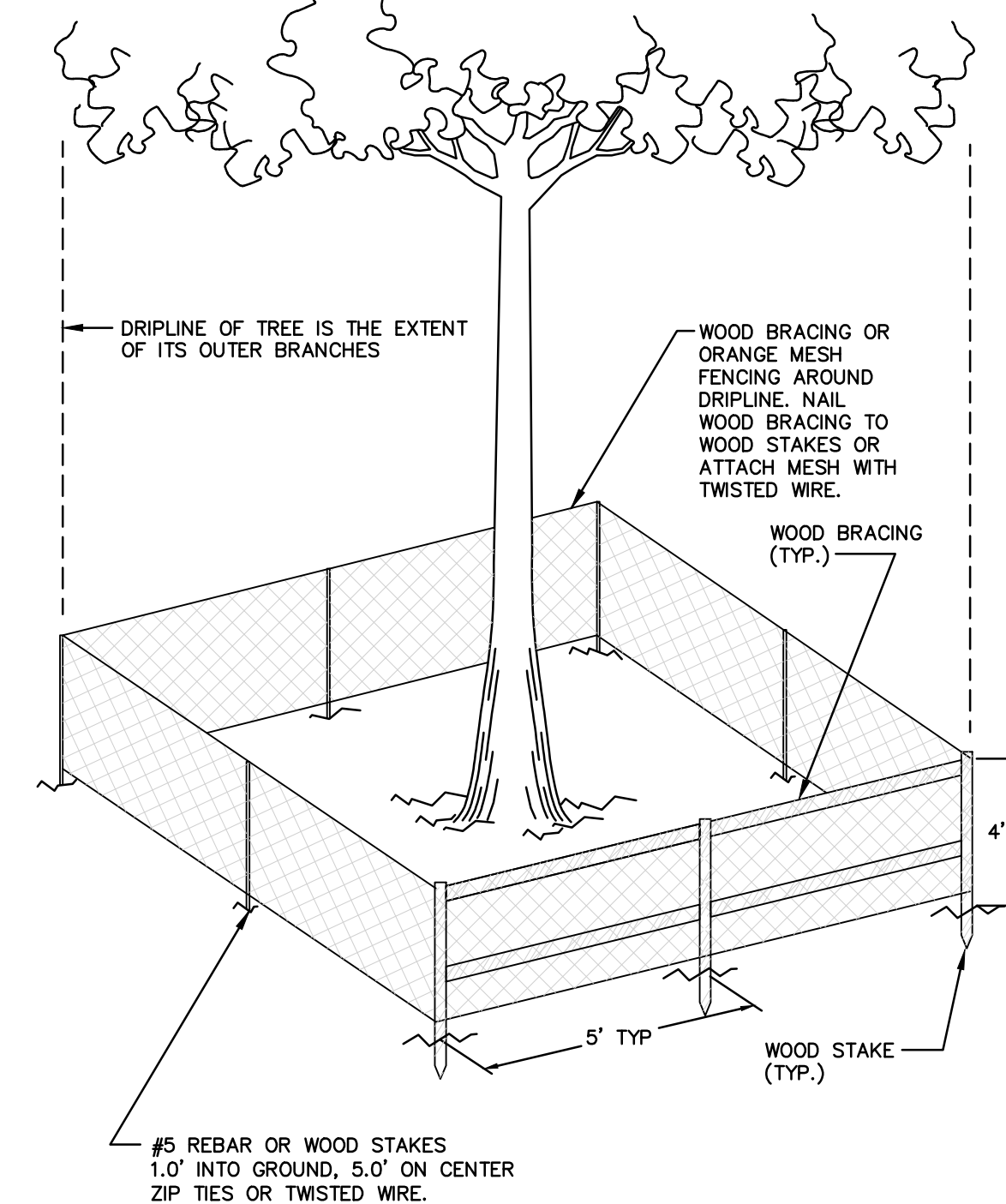
I HEREBY CERTIFY THE PROPOSED LANDSCAPE IMPROVEMENTS ASSOCIATED WITH THE NEW PARKING LOT AND BUILDING MEET OR EXCEED ALL REQUIREMENTS OF THE LAND DEVELOPMENT CODE (LDC).



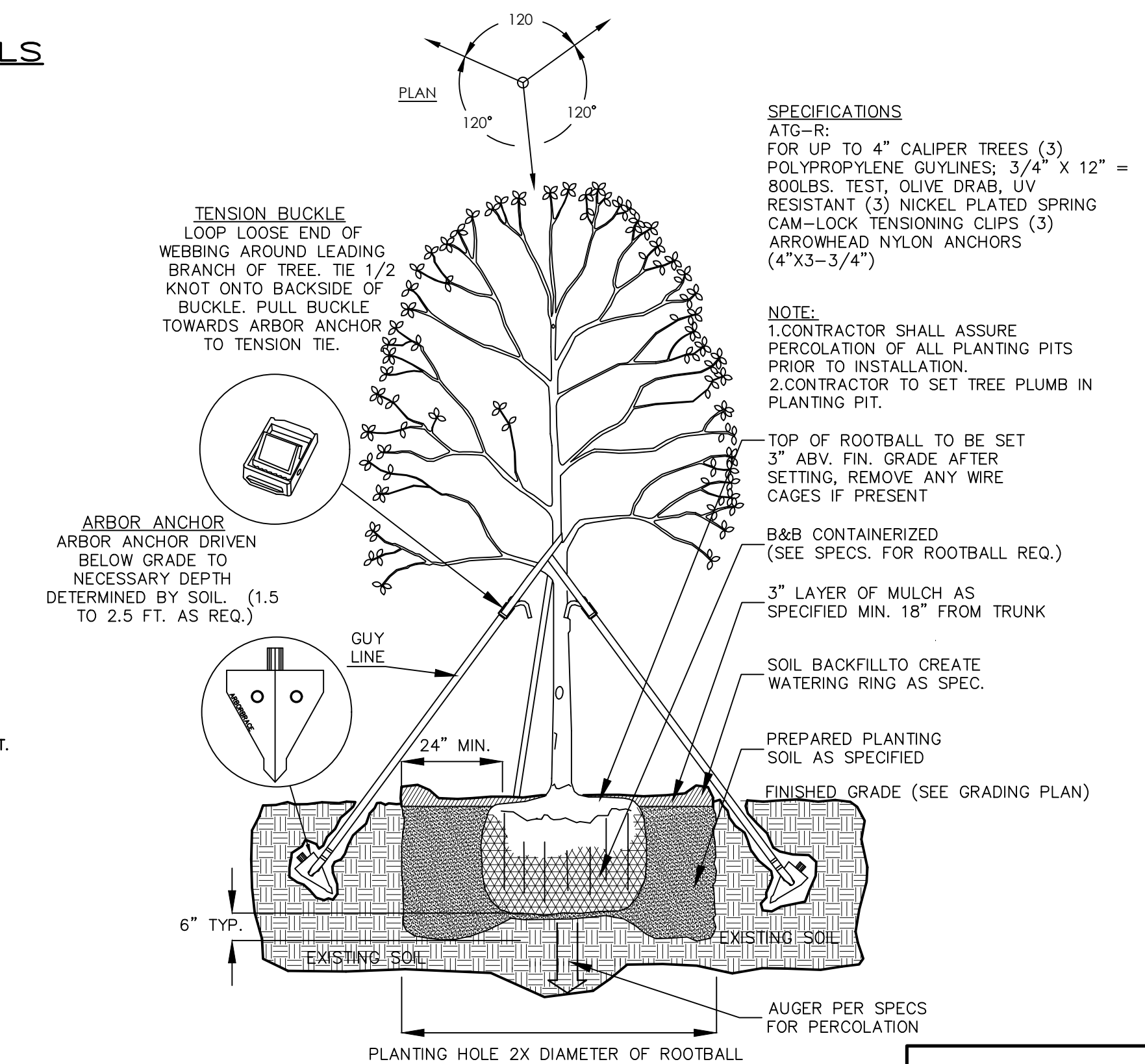
ROOT BARRIER DETAILS



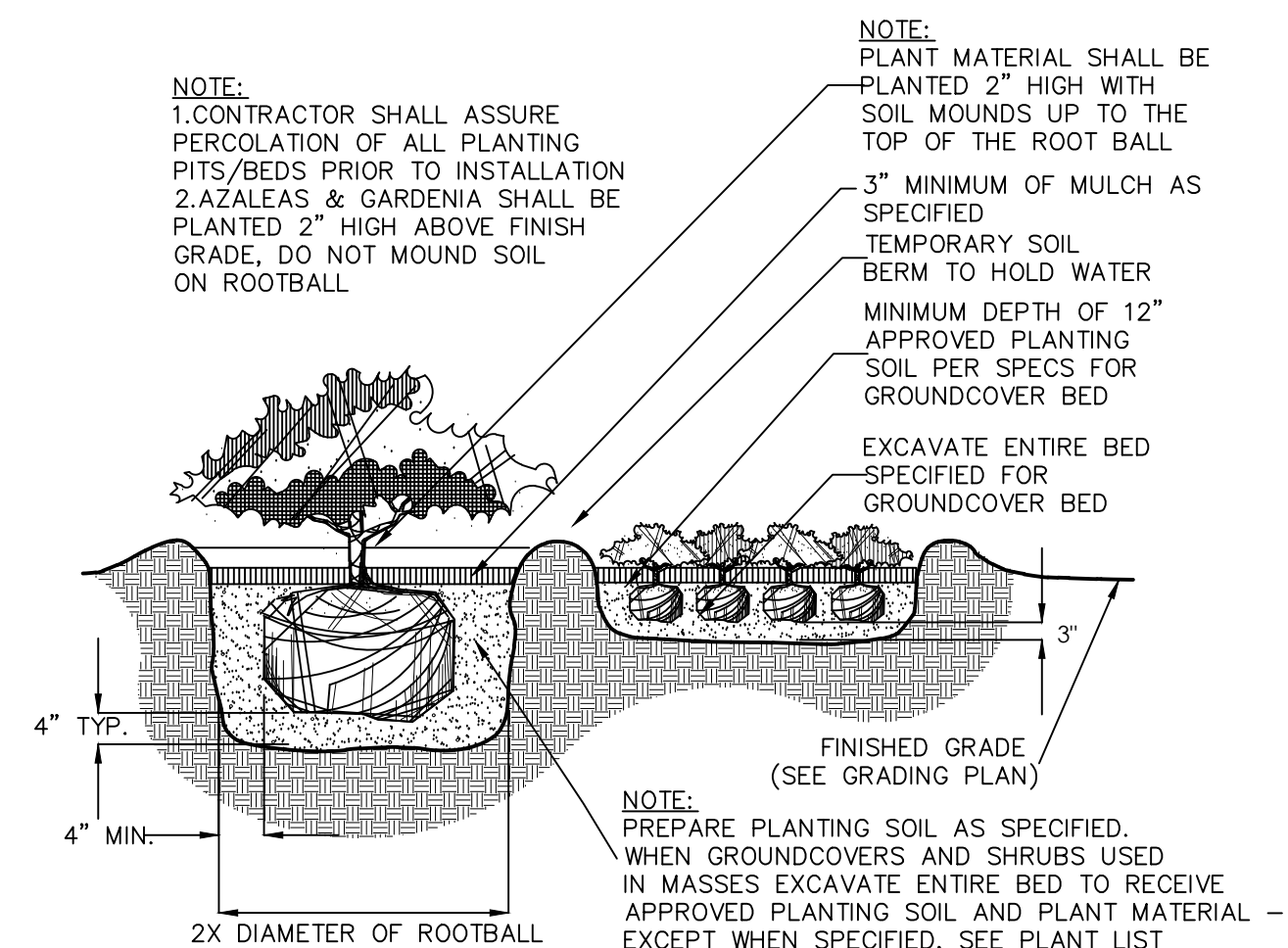
ROOT AERATION DETAILS



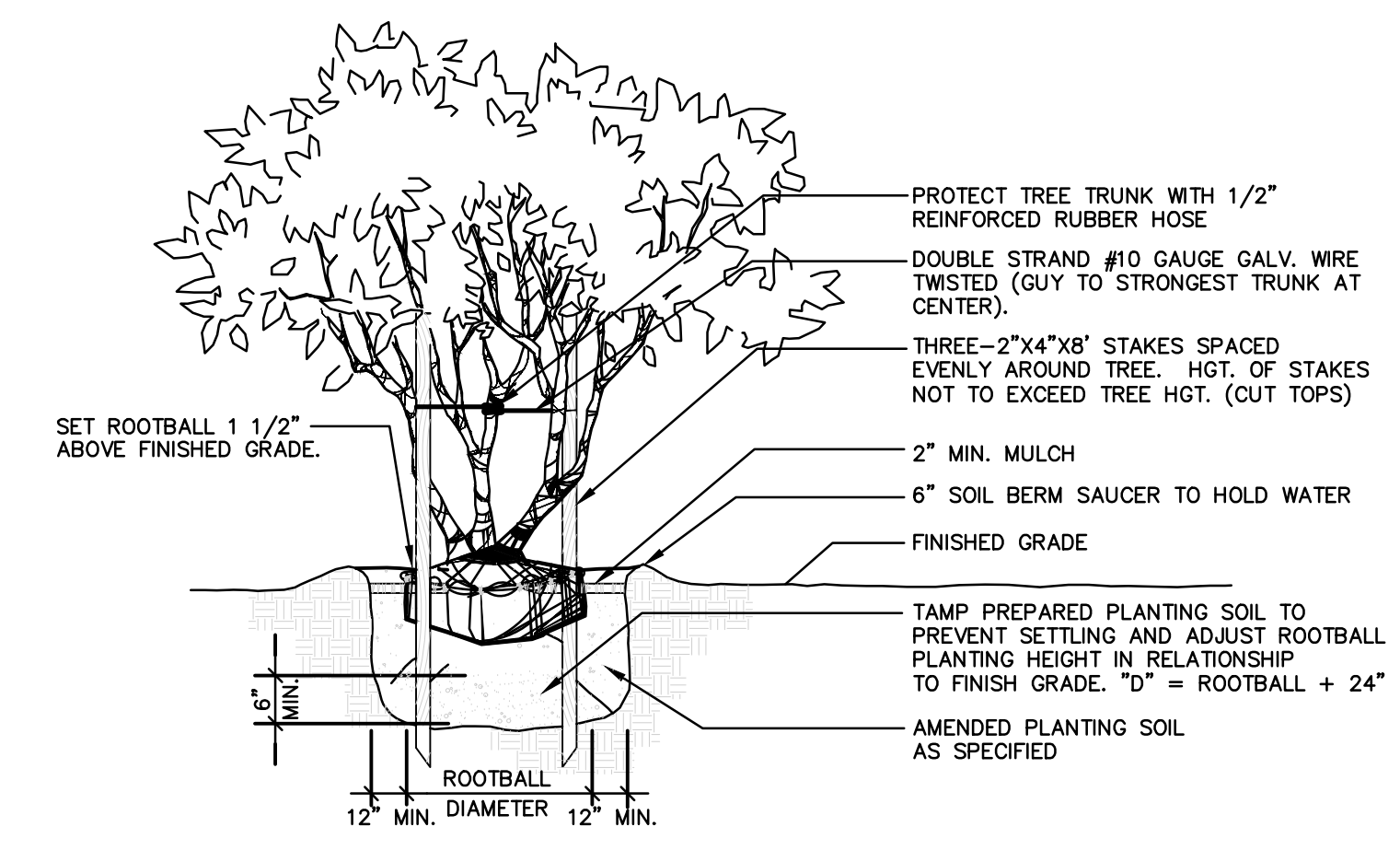
TREE PROTECTION BARRICADE



TREE PLANTING & GUY DETAILS



SHRUB & GROUND COVER PLANTING DETAIL



TYPICAL MULTI-TRUNK TREE

SPECIFICATIONS
 ATG-R:
 FOR UP TO 4" CALIPER TREES (3)
 POLYPROPYLENE GUYLINES: 3/4" X 12" = 800LBS. TEST, OLIVE DRAB, UV RESISTANT (3)
 NICKEL PLATED SPRING CAM-LOCK TENSIONING CLIPS (3)
 ARROWHEAD NYLON ANCHORS (4"X3-3/4")

NOTE:
 1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
 2. CONTRACTOR TO SET TREE PLUMB IN PLANTING PIT.
 TOP OF ROOTBALL TO BE SET 3" ABV. FIN. GRADE AFTER SETTING. REMOVE ANY WIRE CAGES IF PRESENT
 B&B CONTAINERIZED (SEE SPECS. FOR FOOTBALL REQ.)
 3" LAYER OF MULCH AS SPECIFIED MIN. 18" FROM TRUNK
 SOIL BACKFILL TO CREATE WATERING RING AS SPEC.
 PREPARED PLANTING SOIL AS SPECIFIED
 FINISHED GRADE (SEE GRADING PLAN)
 AUGER PER SPECS FOR PERCOLATION

DEV 2017-104
 CITY APPROVAL STAMP

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FDOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SJRWMD	BVB

R E V I S I O N S

PARKER MYNCHENBERG & ASSOCIATES, INC.
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 (386) 677-6891 FAX (386) 677-2114 E-MAIL: info@parkermynchenberg.com
 CERTIFICATION OF AUTHORIZATION NUMBER: 00003910

LANDSCAPE DETAILS

FIRST STEP HOMELESS ASSISTANCE SHELTER

DAYTONA BEACH * FLORIDA

FILE NO. 1622LID.DWG	DESIGNER: P. MYNCHENBERG
DATE: 7/12/17	DRAFTSMAN: BVB
SCALE: NOT TO SCALE	SHEET 9 OF 18

SEAL

STORMWATER CONSTRUCTION NOTES

1. ALL MATERIALS AND INSTALLATION AND SEDIMENT AND EROSION CONTROL METHODS USED FOR LAND DEVELOPMENT CODE, REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDEP, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND THE FDOT DESIGN STANDARDS (LATEST EDITION). THE USE OF BEST MANAGEMENT PRACTICES (BMP'S) IS REQUIRED.
2. BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL SHALL BE PLANNED, DESIGNED AND IMPLEMENTED THROUGHOUT THE SITE DEVELOPMENT ENGINEERING AND CONSTRUCTION PHASES.
3. ALL DEWATERING ACTIVITIES EITHER DIRECTLY DISCHARGED OR THAT SUBSEQUENTLY USE THE CITY'S STORMWATER SYSTEM TO CONVEY GROUND OR SURFACE WATER FROM A SITE SHALL REQUIRE A STANDARD OR GENERAL USE PERMIT AS PER ARTICLE 7 SECTION 7 OF THE LAND DEVELOPMENT CODE. A PERMIT SHALL BE REQUIRED PRIOR TO ENGAGING IN ANY DEWATERING ACTIVITIES, OR IN ANY CONSTRUCTION ACTIVITIES. DEWATERING ACTIVITIES INCLUDE THE REMOVAL OF GROUND WATER FROM A CONSTRUCTION SITE, ENCLOSED VAULT, COFFERDAM, OR TRENCHES ALLOWING CONSTRUCTION OR MAINTENANCE TO BE DONE IN THE DRY, OR ANY ACTIVITY WHICH CHANGES THE IMPERVIOUS AREA OF LAND. SITE SPECIFIC PERMITS SHALL REQUIRE THE PAYMENT OF A PER ACRE FEE BASED ON THE SIZE OF THE DEVELOPMENT. GENERAL PURPOSE PERMITS SHALL REQUIRE THE PAYMENT OF AN ANNUAL FEE BASED ON ROUTINE SCHEDULE OF MAINTENANCE ACTIVITIES DISCHARGING DIRECTLY OR SUBSEQUENTLY INTO THE CITY'S MS4. DEWATERING PERMIT APPLICATIONS ARE FOUND AT <http://www.cod.us/index.cfm?CID=282>. FEES ARE SUBJECT TO ARTICLE 20 SECTION 3.1 OF THE LAND DEVELOPMENT CODE AND MUST BE SUBMITTED TO THE CITY OF DAYTONA BEACH UTILITY DEPARTMENT AT 125 BASIN STREET SUITE 130, DAYTONA BEACH FL 32114 BEFORE ANY USE OF THE MS4 WILL BE ALLOWED. FAILURE TO COMPLY WILL RESULT IN THE TERMINATION OF ACCESS TO THE CITY'S MS4 SYSTEM.
4. CONTRACTOR SHALL FOLLOW REQUIRED EROSION AND SEDIMENT CONTROL PRACTICES AND INCLUDE AN EROSION CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CITY PRIOR TO CONSTRUCTION. ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE CITY'S EROSION AND SEDIMENT CONTROL STANDARD DETAILS ST-2.
5. CONTRACTOR WILL FOLLOW ALL OF THE CITY'S REQUIRED WASTE MANAGEMENT PRACTICES. ALL CONSTRUCTION, RENOVATION, AND DEMOLITION SITES ARE TO BE KEPT CLEAN AND FREE OF REFUSE, DEBRIS, AND LITTER DURING THE CONSTRUCTION, RENOVATION, OR DEMOLITION PROCESS. A CERTIFICATE OF OCCUPANCY FOR A NEWLY CONSTRUCTED OR RENOVATED BUILDING SHALL NOT BE ISSUED UNTIL ALL REFUSE AND LITTER CAUSED BY THE CONSTRUCTION OR REMODELING IS REMOVED FROM THE SITE AS PER THE DAYTONA BEACH CODE OF ORDINANCES CHAPTER 28 SECTION 78-5 AND 78-8.
6. ALL DEVELOPMENT PLANS SHALL BE CONSISTENT WITH THE DAYTONA BEACH LAND DEVELOPMENT CODE ARTICLE 1 PURPOSE ADMINISTRATION AND ENFORCEMENT, ARTICLE 5 SECTION 2 STORMWATER MANAGEMENT, ARTICLE 4 LAND DEVELOPMENT ORDERS AND PROCEDURES, ARTICLE 5 SUBDIVISION AND SITE PLANS SECTION AND ARTICLE 7 SECTION 4 FLOOD PLAIN MANAGEMENT.
7. PIPED STORMWATER SYSTEMS SHALL HAVE A MINIMUM DRAINAGE MAINTENANCE EASEMENT AND ACCESS WIDTH OF 20 FEET, AND MAY BE INCREASED DEPENDING UPON THE SIZE AND DEPTH OF PIPE.
8. CONCRETE EROSION CONTROL BMP'S MUST BE PROVIDED WHERE SWALES OR CULVERTS INTERCEPT DRAINAGE DITCHES.
9. SOIL EROSION AND SEDIMENT CONTROL BMP MEASURES, SATISFACTORY TO THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, FDEP AND THE CITY, SHALL BE EMPLOYED DURING CONSTRUCTION.

STORMWATER
CONSTRUCTION NOTES
(PAGE 1 OF 4)
ST-1

**STORMWATER CONSTRUCTION NOTES
(CONT'D)**

10. IN GENERAL, ALL RETENTION/DETENTION SITES MUST BE CONSTRUCTED AND VEGETATED AS NECESSARY 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, HOWEVER BMP'S FOR EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED AS NECESSARY.
11. THE CONTRACTOR SHALL OBTAIN ANY AND ALL DEWATERING PERMITS THAT MAY BE REQUIRED (SEE ST-1A NOTE 3).
12. THE CONTRACTOR IS TO REVIEW AND MAINTAIN A COPY OF THE SURVMD, NPDES, AND ALL OTHER JURISDICTIONAL PERMITS AT THE CONSTRUCTION SITE, AND ABIDE BY ALL CONDITIONS OF THOSE PERMITS.
13. LANDSCAPE PLANS SHALL CLEARLY DEPICT THE DESIGN LOCATION OF TEMPORARY AND PERMANENT PLANTINGS RELATIVE TO THE LOCATION OF PUBLIC UTILITIES AND STORMWATER INFRASTRUCTURE IN ORDER TO EVALUATE POTENTIAL CONFLICTS.
14. THE MAXIMUM PERMISSIBLE SLOPE OF ANY NEW SITE GRADING IS 1:3 (VERTICAL:HORIZONTAL). THIS LIMIT SHALL BE APPLIED TO ALL AREAS EXCEPT STORMWATER CONVEYANCE AND TREATMENT SYSTEMS WHICH HAVE A MAXIMUM SIDE SLOPE OF 1:4 (EXCEPT BELOW THE WATER TABLE WHERE STEEPER SLOPES ARE PERMISSIBLE).
15. ALL SWALES AND DITCHES SHALL HAVE A MAXIMUM PERMITTED FRONT (SIDE) SLOPE NOT STEEPER THAN 1 TO 4. THE MAXIMUM PERMITTED BACK (SIDE) SLOPE, SHALL BE 1:3, PROVIDED THAT A 2' WIDE BERM IS INSTALLED. DESIGN CENTERLINE AND TOP-OF-BANK ELEVATIONS SHALL BE NOTED AT INTERVALS OF 100' AND AT SIGNIFICANT GRADE CHANGES.
16. 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. SWALE AREAS INTENDED FOR RETENTION SHALL PROVIDE APPROPRIATE EASEMENT AREAS FOR ACCESS AND MAINTENANCE MEASURED UP/LAND FROM THE TOP OF BANK. AT A MINIMUM, THE SAID EASEMENT SHALL MEASURE 10 FEET IN WIDTH FROM THE TOP OF THE SWALE.
17. NORMAL ROADSIDE SWALES ARE PERMITTED TO BE CONSTRUCTED TO A MAXIMUM DEPTH OF 18" BELOW THE OUTSIDE EDGE OF PAVEMENT OR CONCRETE CURB.
18. WHEN CULVERTS ARE INSTALLED TO MAINTAIN THE FLOW OF EXISTING DRAINAGE WAYS WHERE NEWLY PROPOSED ROADS WOULD OTHERWISE SEVER THE DRAINAGE RIGHT-OF-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.
19. WET POND DEPTHS SHALL BE EIGHT FEET (8') MINIMUM TO FIFTEEN FEET (15') MAXIMUM, MEASURED FROM THE TOP OF BANK.
20. WHEN A WET POND 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.
21. WET POND 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.

**STORMWATER CONSTRUCTION NOTES
(CONT'D)**

22. THE CITY MAY REQUEST THAT THE DEVELOPER SUBMIT A REPORT BY A QUALIFIED HYDROLOGIST OR HYDROGEOLOGIST ON THE IMPACT THE WET POND WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS BOTH DURING CONSTRUCTION AND AFTER LAKE COMPLETION. THE CITY MAY REQUIRE GROUNDWATER MONITORING DURING THE LAKE EXCAVATION.
23. ADEQUATE MAINTENANCE BERMS, MINIMUM 10' IN WIDTH, SHALL BE PROVIDED AROUND THE ENTIRE PERIMETER OF ALL WET PONDS AND ASSOCIATED OUTFALLS DISCHARGING INTO AND OUT OF LAKES. APPLICABLE CROSS SECTIONS SHALL BE INCLUDED ON ALL FINAL DEVELOPMENT PLANS.
24. 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).
25. ALL STORM SEWERS AND CULVERTS LOCATED IN ROADWAY RIGHT-OF-WAYS AND ROADWAY EASEMENTS SHALL BE A MINIMUM OF CLASS III 0-RING REINFORCED CONCRETE PIPE. OUTSIDE OF ROADWAY EASEMENTS AND R.O.W., PIPE MAY BE MADE OF ALTERNATE MATERIALS INCLUDING:
 - A. SMOOTH INNER WALL HIGH DENSITY POLYETHYLENE (HDPE) IN ACCORDANCE WITH AASHTO M-294, AASHTO M7, ASTM D3350 AND ASTM D2412 FOR SIZES UP TO 42" IN DIAMETER OR
 - B. PVC IN ACCORDANCE WITH THE PROVISION NOTED IN THE "SEWER DETAILS" OF THESE SPECIFICATIONS.
26. ALL STORM SEWER PIPE JOINTS LOCATED IN ROADWAY RIGHT-OF-WAYS AND ROADWAY EASEMENTS SHALL BE ENTIRELY WRAPPED WITH NON-WOVEN FILTER FABRIC WITH A MINIMUM WIDTH OF 24" AND A MINIMUM OF 24" OVERLAP. GASKETS ARE NOT PERMITTED AS AN EQUIVALENT SUBSTITUTE FOR MEETING THIS REQUIREMENT. THIS PRACTICE IS ENCOURAGED ON PRIVATE SITES. ADDITIONALLY, ALL JOINTS SHALL BE RUBBER GASKETED FOR BOTH ROUND AND ELLIPTICAL PIPE.
27. DEPTH OF COVER MEASURED TO THE TOP OF PIPE (INCLUDING THE BELL JOINT) SHALL BE A MINIMUM OF 3 FEET OVER ROP. DEVIATION FROM THIS REQUIREMENT MAY BE ALLOWED BY INCREASING THE PIPE'S STRUCTURAL STRENGTH. IF AN ALTERNATE MATERIAL IS APPROVED, DEPTH OF COVER SHALL MEET MANUFACTURER'S RECOMMENDATION.
28. ALL STORM DRAINAGE PIPES LOCATED IN ROADWAY RIGHT-OF-WAYS AND ROADWAY EASEMENTS SHALL BE A MINIMUM OF FIFTEEN INCH (15") INSIDE DIAMETER OR EQUIVALENT. STORM DRAINAGE PIPES SMALLER THAN 15" ARE PERMITTED ON PRIVATE SITE PLANS PROVIDING THAT MAINTENANCE SHALL BE PERFORMED BY THE OWNER.
29. FOR NON-METALLIC STORMWATER FORCE MAINS A #12 UF INSULATED SINGLE STRAND COPPER WIRE SHALL BE ATTACHED TO ALL PIPES AND TERMINATED AT THE VALVES IN ACCORDANCE WITH RECLAIM WATER VALVE DETAIL RW-4.
30. STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE FDOT COMPLIANT. 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 6" THICK WALLS. THINNER WALLS MAY BE PERMITTED PROVIDING THAT THE DESIGN IS IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 200 AND NO. 201. IN ADDITION, THIS REQUIREMENT MUST BE REFLECTED ON BOTH THE SHOP DRAWING AND AS-BUILT PLANS. STRUCTURES PLACED IN HIGH TRAFFIC AREAS SHALL BE OF UTILITY BEARING CONSTRUCTION IN ACCORDANCE WITH FDOT STANDARDS.
31. 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, SPACING 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.
32. 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 2.5 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.
33. ALL STORMWATER INLETS SHALL MEET FDOT CRITERIA IN THE FDOT DESIGN STANDARD LATEST EDITION.

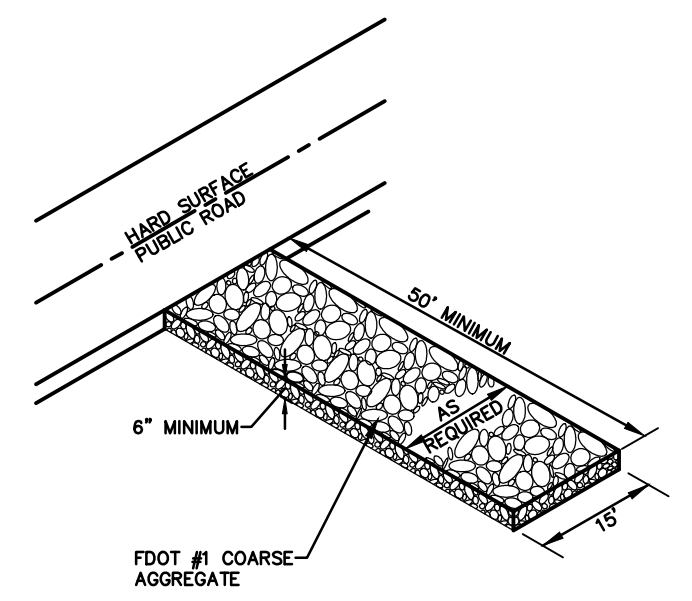
EROSION & SEDIMENT CONTROL NOTES

1. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION, SEDIMENTATION, AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
2. CONTRACTOR SHALL MINIMIZE DISTURBANCE OF EXISTING VEGETATION, (PARTICULARLY AROUND THE PROJECT PERIMETER) AND ADJACENT EXISTING DRAINAGE PATTERNS TO THE MAXIMUM EXTENT PRACTICAL DURING THE CONSTRUCTION PROCESS.
3. SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED ON SITE AND APPROVED BY THE CITY PRIOR TO CONSTRUCTION, AND SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AND CORRECTIVE ACTION TAKEN AS NECESSARY.
4. STORMWATER RETENTION, DETENTION, STORAGE AND CONVEYANCE SYSTEMS MUST BE EXCAVATED TO ROUGH GRADE PRIOR TO BUILDING CONSTRUCTION OR PLACEMENT OF IMPERVIOUS SURFACE WITHIN THE AREA SERVED BY THOSE SYSTEMS. ADEQUATE MEASURES MUST BE TAKEN TO PREVENT SILTATION OF THESE TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING CONSTRUCTION. SILTATION MUST BE REMOVED FROM THE STORMWATER SYSTEM WHEN HALF FULL AND IMMEDIATELY PRIOR TO FINAL GRADING AND GRASSING OF THE PROJECT.
5. CONTRACTOR SHALL SOD ALL SWALES AND STORMWATER FACILITIES IN ACCORDANCE WITH TEMPORARY BMP'S WITHIN 14 DAYS AFTER CONSTRUCTION. THIS IS REQUIRED TO STABILIZE THE SLOPES AND MINIMIZE EROSION.
6. DURING ALL CONSTRUCTION OF THE PERMITTED SYSTEM INCLUDING STABILIZATION AND REVEGETATION OF DISTURBED SURFACES, CONTRACTOR IS RESPONSIBLE FOR THE SELECTION, IMPLEMENTATION, AND OPERATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN ALL SEDIMENT ONSITE AND PREVENT VIOLATIONS OF THE WATER QUALITY STANDARDS IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE AND PROJECT PERMIT REQUIREMENTS.
7. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A PROTECTIVE COVER (VEGETATIVE OR SUITABLE ALTERNATIVE) FOR EROSION AND SEDIMENT CONTROL ON ALL LAND SURFACES EXPOSED OR DISTURBED BY CONSTRUCTION OF THE PERMITTED PROJECT, UNLESS MODIFIED BY ANOTHER CONDITION OF THE PERMIT OR OTHERWISE SPECIFIED ON A DISTRICT APPROVED EROSION AND SEDIMENT CONTROL PLAN. THE PROTECTIVE COVER MUST BE INSTALLED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE AFFECTED LAND SURFACE. A PERMANENT VEGETATIVE COVER MUST BE ESTABLISHED WITHIN 60 DAYS OF ITS INSTALLATION. THE PERMITTEE'S REQUIREMENT TO MAINTAIN COVER ON OFFSITE AND ONSITE SURFACES SHALL NOT BE COMPLETE UNTIL AFTER THE WATER MANAGEMENT DISTRICT RECEIVES THE PERMITTEE'S STATEMENT OF COMPLIANCE.
8. AT A MINIMUM, SILT FENCES AND TURBIDITY BARRIERS SHALL BE INSTALLED PER PLAN. ADDITIONAL BMP MEASURES MUST BE TAKEN TO MINIMIZE IMPACTS OF RECEIVING WATERS SUCH AS THE USE OF APPROVED BARRIERS AT INLETS, ADDITIONAL SILT FENCING, SOIL ANTI-TRACKING DEVICES AND SODDING.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE PROJECT LIMITS IN COMPLIANCE WITH ALL JURISDICTIONAL PERMIT AND CITY REQUIREMENTS.
10. ANY TIME THE CONTRACTOR NEEDS TO SUBMIT A NOTICE OF INTENT TO USE A GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, A COPY OF THE PERMIT SHALL ALSO BE SUBMITTED TO THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT.
11. THE CONTRACTOR SHALL AS A MINIMUM PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) GUIDELINES.
12. DEWATERING ACTIVITIES SHALL BE APPROVED BY THE UTILITIES DEPARTMENT BEFORE DISCHARGING INTO THE CITY'S MS4 SYSTEM (ST-1A NOTE 3).

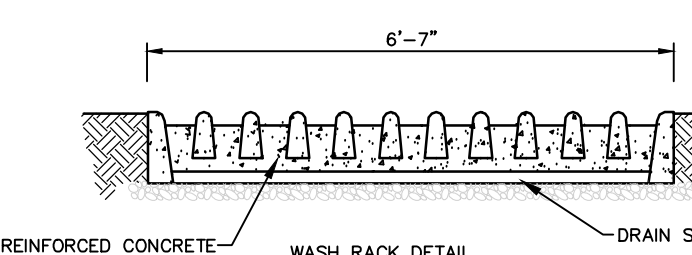
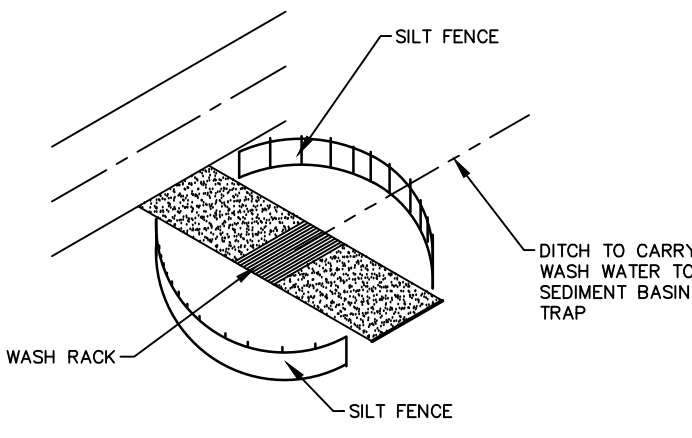
EROSION AND SEDIMENT
CONTROL NOTES
ST-5

ES BMP 1.01

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
DEFINITION
A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.
PURPOSE
TO REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.
CONDITIONS WHERE PRACTICE APPLIES
WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVES DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREA.
PLANNING CONSIDERATIONS
CONSTRUCTION ENTRANCES PROVIDE AN AREA WHERE MUD CAN BE REMOVED FROM CONSTRUCTION VEHICLE TIRES BEFORE THE ENTER A PUBLIC ROAD. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE. CONSTRUCTION ENTRANCES SHOULD BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES.
DESIGN CRITERIA
AGGREGATE SIZE
FDOT AGGREGATE NO. 1 (1.5 - 3.5 INCH STONE) SHOULD BE USED.
ENTRANCE DIMENSIONS
AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET. (SEE DETAIL).
WASHING
IF CONDITIONS OF THE SITE ARE SUCH THAT THE MAJORITY OF THE MUD IS NOT REMOVED BY THE VEHICLES TRAVELING OVER THE GRAVEL, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE. SEE DETAIL.
LOCATION
THE ENTRANCE SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
CONSTRUCTION SPECIFICATIONS
THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. IF WASH RACKS ARE USED, THEY SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. IF WASH RACKS ARE TO MANUFACTURER'S SPECIFICATIONS.
MAINTENANCE
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE. CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

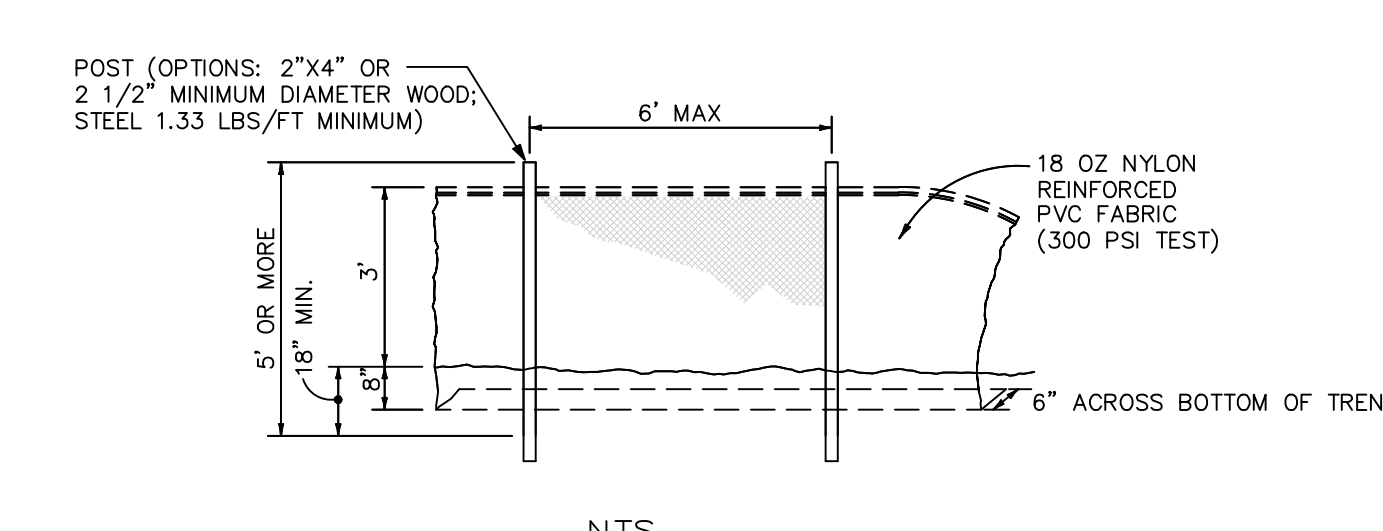
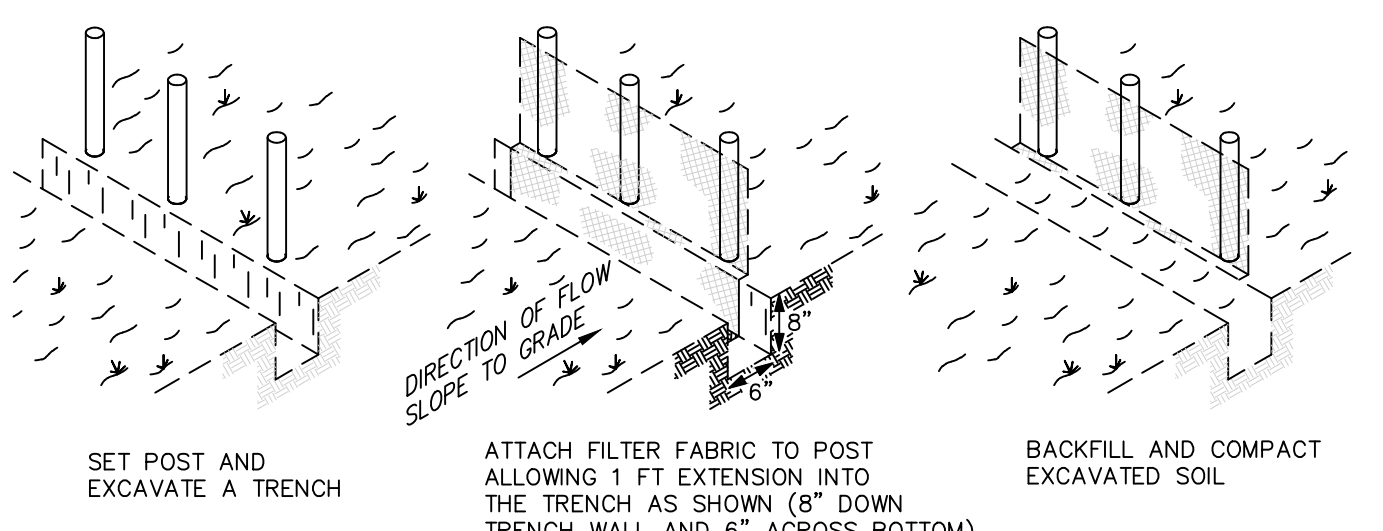


GRAVEL CONSTRUCTION ENTRANCE
N.T.S.



**GRAVEL CONSTRUCTION ENTRANCE
W/ WASH RACK (IF REQUIRED)**
N.T.S.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



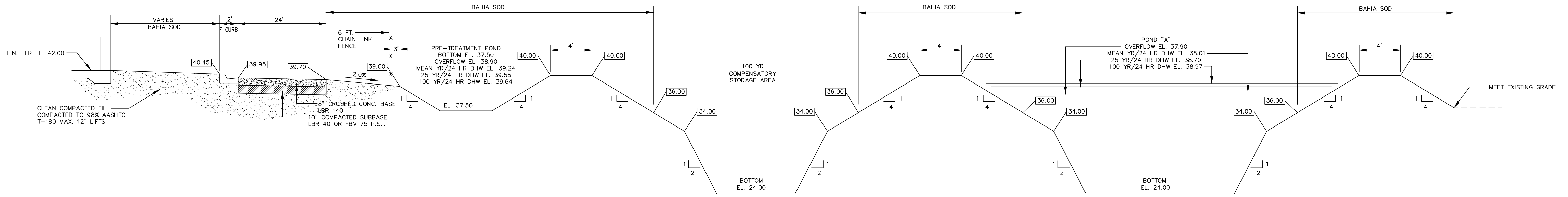
NOTES:
1. MATERIALS, CONSTRUCTION METHODS AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND DESIGN STANDARDS CURRENT EDITION.
2. CONTRACTOR SHALL PROVIDE SILT FENCES, TURBIDITY BARRIERS OR APPROVED BARRIERS AT ALL STORMWATER DISCHARGE POINTS FOR EROSION CONTROL AND SEDIMENT CONTROL DURING CONSTRUCTION. DEPENDING UPON FLOW VELOCITIES AND VOLUME, REDUNDANT (MULTIPLE) PARALLEL FENCES MAY BE NEEDED.
3. CONTRACTOR SHALL ROUGH GRADE STORMWATER SWALES AND RETENTION AREAS VEGETATING IN COMPLIANCE WITH BEST MANAGEMENT PRACTICES PRIOR TO CONSTRUCTION OF SITE IMPROVEMENTS.
4. CONTRACTOR SHALL MEET ALL PERMIT CONDITIONS AS ESTABLISHED BY THE CITY OF DAYTONA BEACH AND ALL OTHER APPLICABLE AGENCIES, INCLUDING BUT NOT LIMITED TO COUNTY, FDOT, STATE, FEDERAL, AND THE SJRWMD.

STAKED SILT FENCE DETAIL

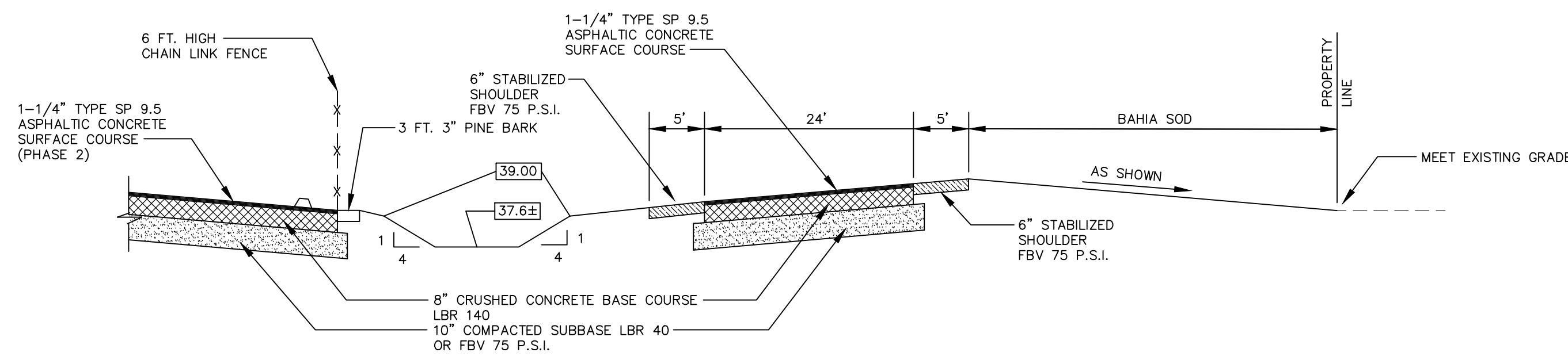
STAKED SILT
FENCE
DETAIL
ST-9

DEV. #2017-104
CITY APPROVAL STAMP

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
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3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SJRWMD	BVB
R E V I S I O N S			
PARKER MYNCHENBERG & ASSOCIATES, INC.			
PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS 1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117 (386)677-6891 FAX(386)677-2114 E-MAIL: info@arkermynchenberg.com CERTIFICATE OF AUTHORIZATION NUMBER: 00003910			
PAVING & DRAINAGE DETAILS			
FIRST STEP HOMELESS ASSISTANCE SHELTER DAYTONA BEACH * FLORIDA			
FILE NO.	1622PD.DWG	DESIGNER:	P.MYNCHENBERG
DATE:	7/12/17	CADD TECH:	BVB
SCALE:	NONE	SHEET	10 OF 18
			SEAL

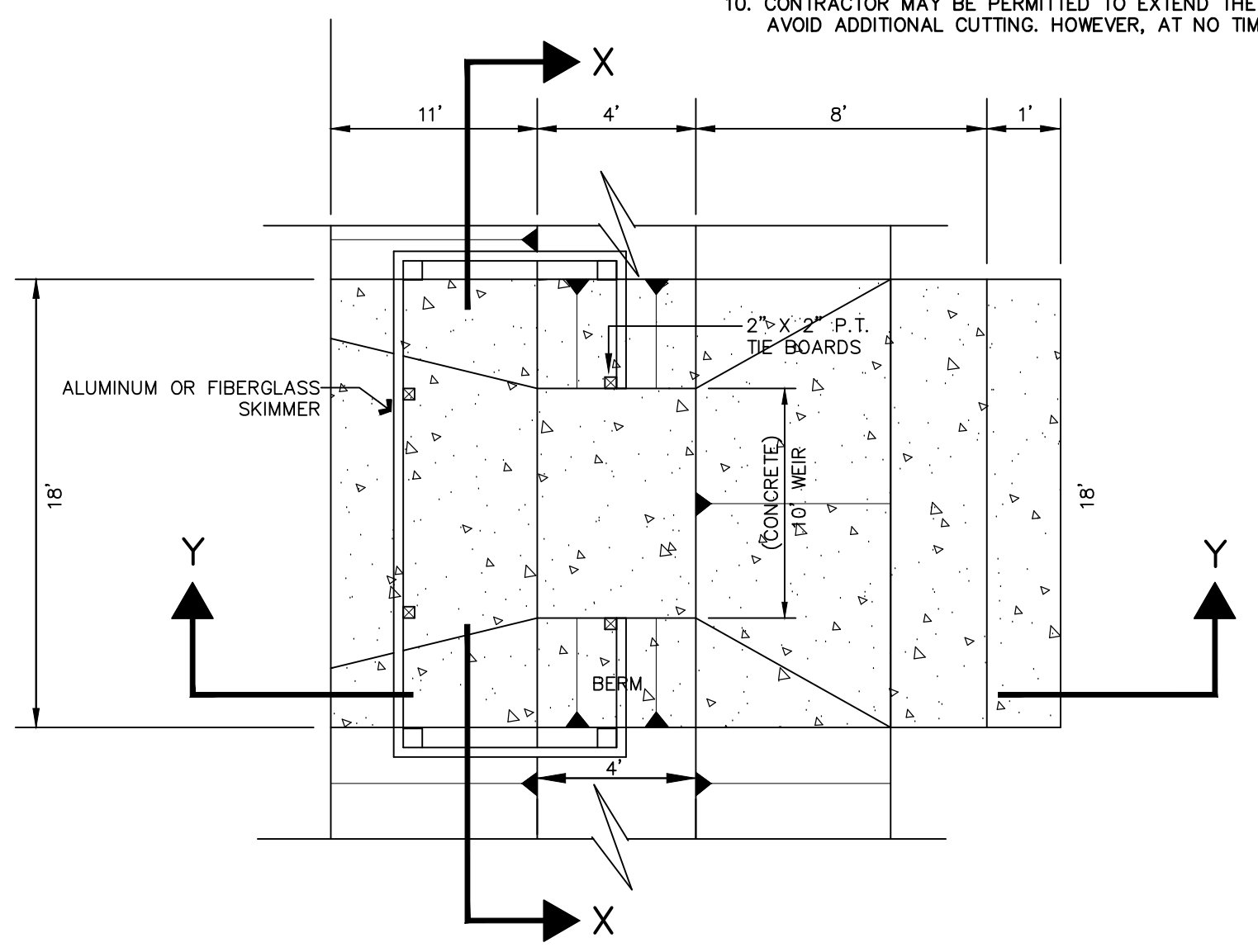


SECTION "A-A"

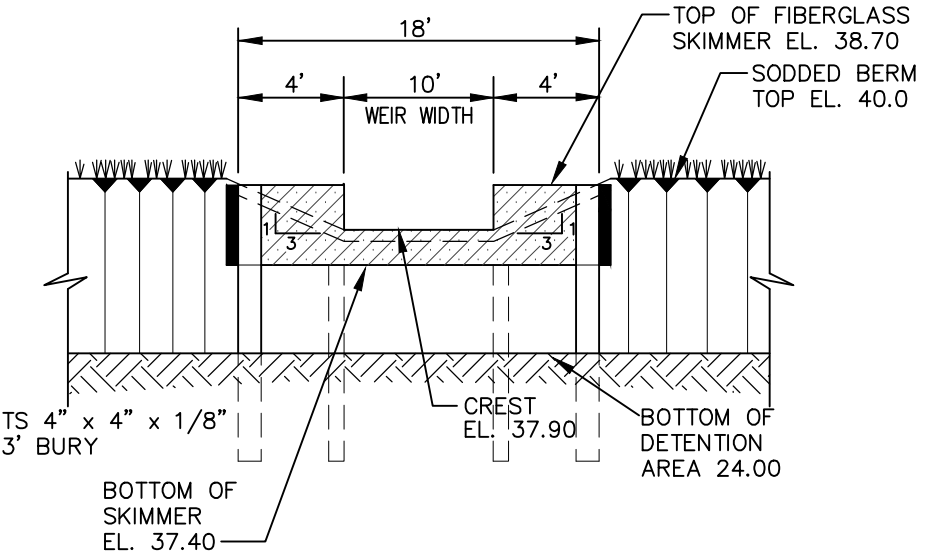


SECTION "B-B"

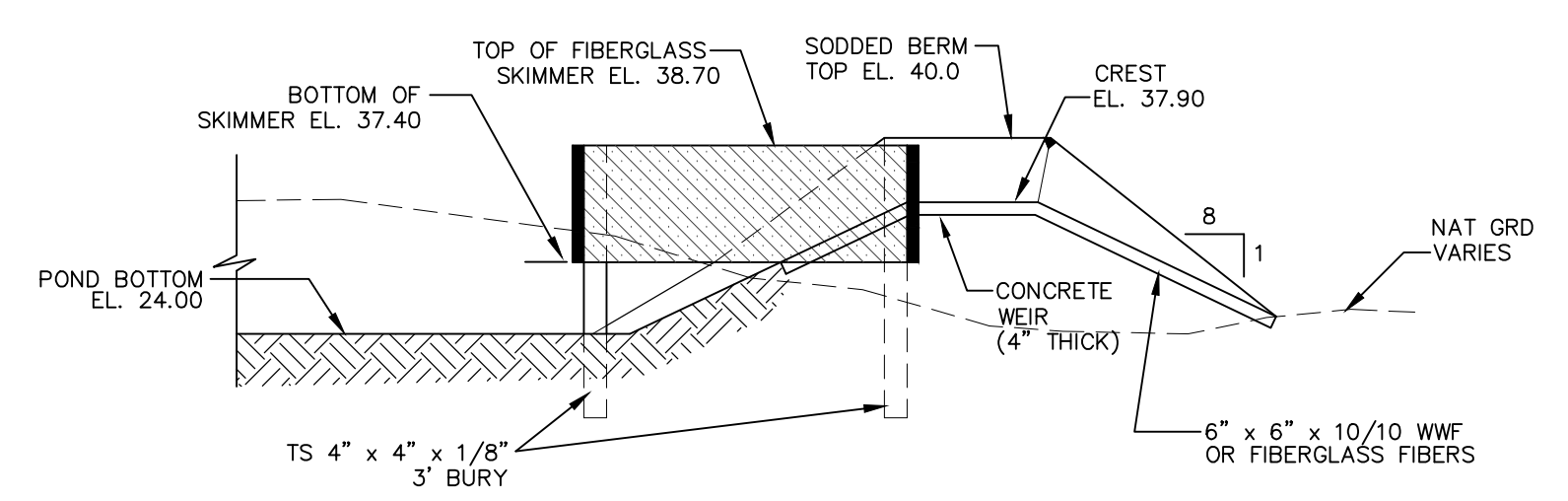
- NOTES:
1. CONTRACTOR SHALL SLOPE THE TOP OF BERM DOWN TO THE CREST ELEVATION AT A SLOPE WHICH DOES NOT EXCEED 3:1 (H. & V.) SEE NOTE #10.
 2. CONTRACTOR SHALL STABILIZE ALL EARTHWORK & SOO ALL AREAS AROUND WEIR.
 3. A NOTCH SHALL BE CUT OUT OF THE BOARD AT THE DESIGN CREST ELEVATION.
 4. ADDITIONAL POSTS & BOARDS MAY BE REQUIRED TO ACHIEVE THE REQUIRED WEIR DIMENSIONS.
 5. ALL FASTENERS SHALL BE STAINLESS STEEL SCREWS OR #16 NAIL SHANKS.
 6. POSTS SHALL BE PRESSURE-TREATED PREMIUM GRADE & FREE OF CRACKS & KNOTHOLES.
 7. ALUMINUM OR FIBERGLASS SKIMMER IF REQUIRED, NO WOOD IS ACCEPTABLE.
 8. NO SPACES SHALL BE PERMITTED BETWEEN SKIMMER BOARDS. 2" X 2" TIE BOARDS MAY BE REQUIRED TO PREVENT THE SKIMMER BOARDS FROM WARPING IF THE LENGTH OF THE SKIMMER BOARD EXCEEDS 6 FEET.
 9. A MINIMUM OF 9" IS REQUIRED BETWEEN THE BOTTOM OF THE SKIMMER & THE POND BOTTOM. IF THE 9" DOES NOT EXIST, THE CONTRACTOR SHALL OVEREXCAVATE THE POND BOTTOM & SLOPE BACK TO THE POND AT A SLOPE OF NO STEEPER THAN 4:1 (H:V).
 10. CONTRACTOR MAY BE PERMITTED TO EXTEND THE LENGTH OF THE SKIMMER AS NEEDED TO AVOID ADDITIONAL CUTTING. HOWEVER, AT NO TIME SHALL THE WIDTH OF THE WEIR BE CHANGED.



PLAN VIEW OF WEIR/SKIMMER



SECTION "X-X"



SECTION "Y-Y"

POND "A" CONCRETE WEIR DETAILS DRAINAGE CONTROL STRUCTURE #5

NOTES:

1. EDGELINE, CURB, RAMP AND DRIVEWAY APPROX SHALL BE CONSTRUCTED OF PLAIN PORTLAND CEMENT CONCRETE WITH A MINIMUM SLUMP OF 2" A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS AND A MINIMUM UNIFORM THICKNESS OF 6"
2. EDGELINE AND RAMP SHALL BE FINISHED PARALLEL TO AND ONE FOOT WITHIN THE EDGELINE OF THE DRIVEWAY OR RAMP. THE FINISH SHALL BE A FINISHED FINISH. THE FINISH SHALL BE A FINISHED FINISH. THE FINISH SHALL BE A FINISHED FINISH.
3. ALL FORMS SHALL BE STAINLESS STEEL OR #16 NAIL SHANKS. ALL FORMS SHALL BE STAINLESS STEEL OR #16 NAIL SHANKS. ALL FORMS SHALL BE STAINLESS STEEL OR #16 NAIL SHANKS.
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NOTE: SEE ARCHITECTURAL PLANS FOR MONUMENT SIGN DETAIL

SECTION

ELEVATION

NOTES:

1. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS. NUMBERS SHALL BE IN A COLOR CONTRASTING WITH THE STRUCTURE OR BACKGROUND SURFACE, AND NOT BE LESS THAN SIX (6) INCHES IN HEIGHT.
2. THE ADDRESS NUMBER SHALL BE AFFIXED HORIZONTALLY IN A CONSPICUOUS PLACE ON THE PRINCIPAL BUILDING SO THAT THE NUMBER IS CLEARLY LEGIBLE FROM THE ROADWAY ON WHICH IT IS ADDRESSED.
3. IF THE DISTANCE FROM THE ROADWAY ON WHICH A PRINCIPAL BUILDING IS ADDRESSED, OR THE CONFIGURATION OF THE PRINCIPAL BUILDING HAS AN OBSTRUCTION SUCH AS FENCES, TREES OR WALLS WHICH WOULD LIMIT VISIBILITY OF THE PRINCIPAL BUILDING FROM THE STREET OR ROADWAY, THE ADDRESS NUMBER SHALL BE POSTED HORIZONTALLY AT LEAST FOUR (4) FEET ABOVE GROUND LEVEL IN A CONSPICUOUS PLACE AT THE DRIVEWAY OR PROPERTY ENTRANCE IN A CONSPICUOUS PLACE LOCATED TWO (2) FEET OFF THE SIDE OF THE DRIVEWAY OR PROPERTY ENTRANCE.
4. A SEPARATE SIGN PERMIT IS REQUIRED.

MONUMENT SIGN DETAIL

DEV. #2017-104
CITY APPROVAL STAMP

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
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1	10/11/17	REVISED PER SJRWMD	BVB

R E V I S I O N S

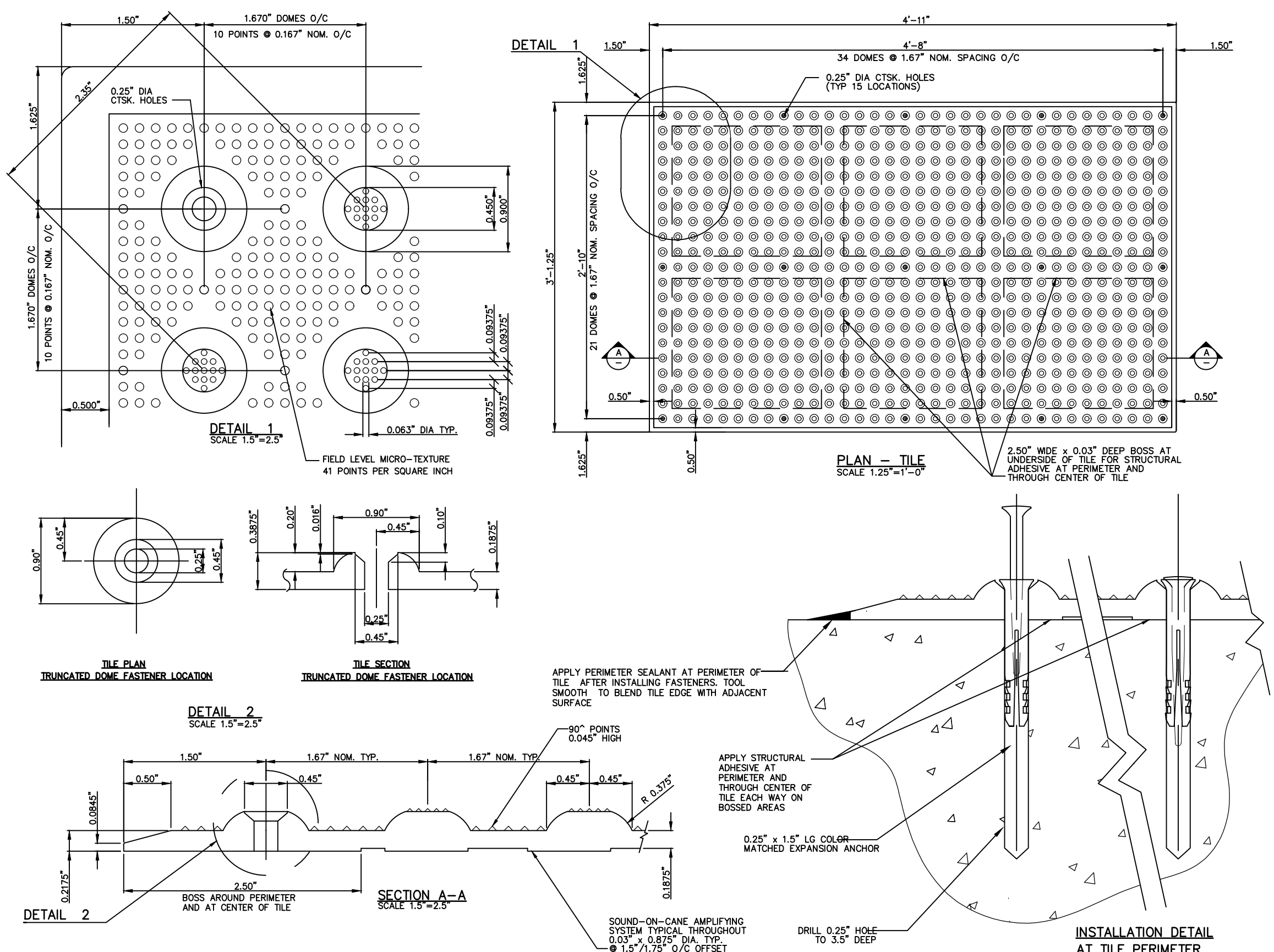
PARKER MYNCHENBERG & ASSOCIATES, INC.
PROFESSIONAL ENGINEERS * LANDSCAPE ARCHITECTS
1729 RIDGEWOOD AVENUE HOLLY HILL, FLORIDA 32117
(386)677-6891 FAX(386)677-2114 E-MAIL: info@parkermynchenberg.com
CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

PAVING & DRAINAGE DETAILS

FIRST STEP HOMELESS ASSISTANCE SHELTER
DAYTONA BEACH * FLORIDA

FILE NO. 1622PD.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: NONE	SHEET 11 OF 18

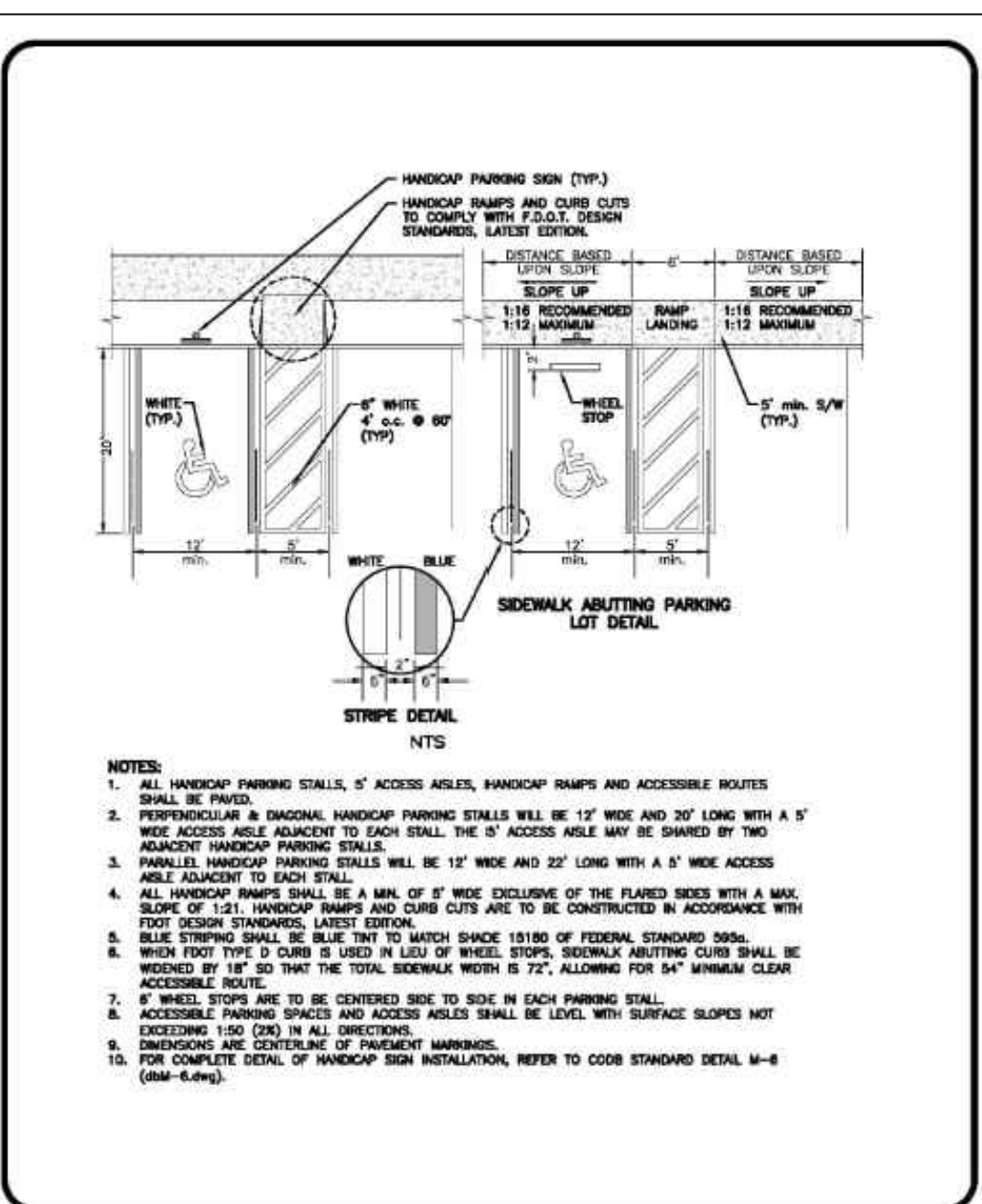
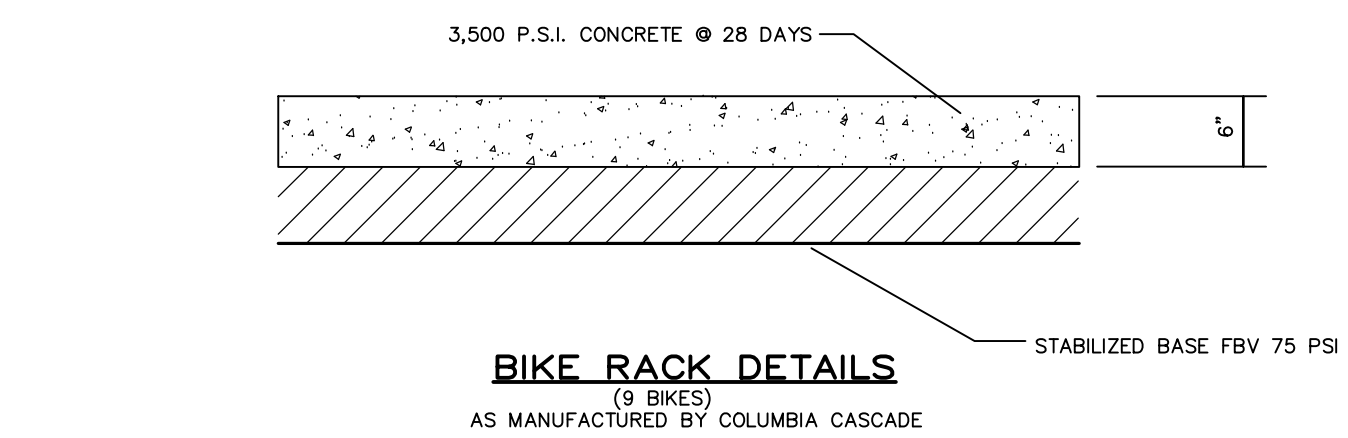
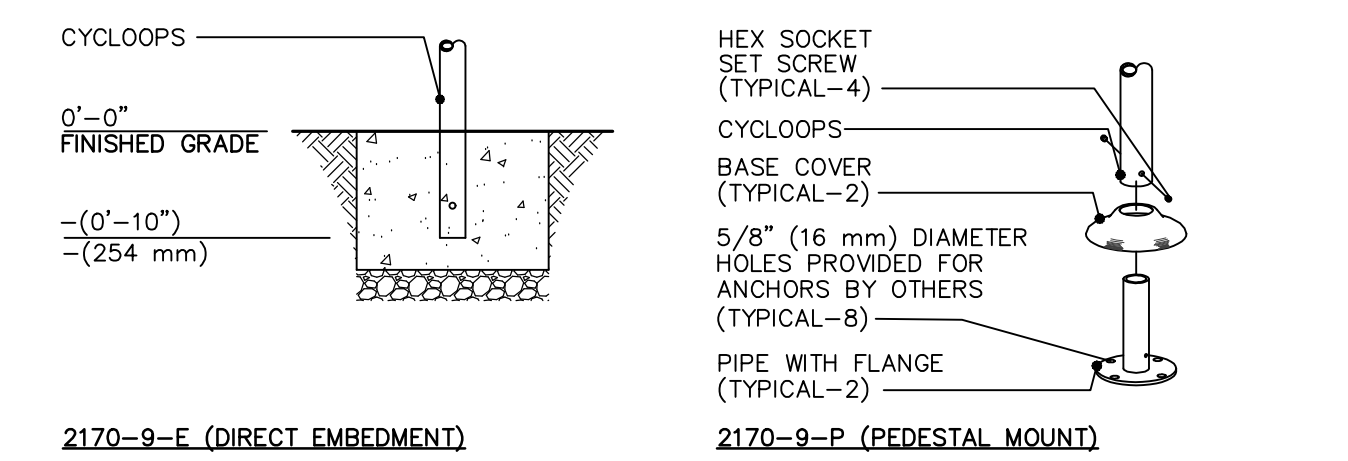
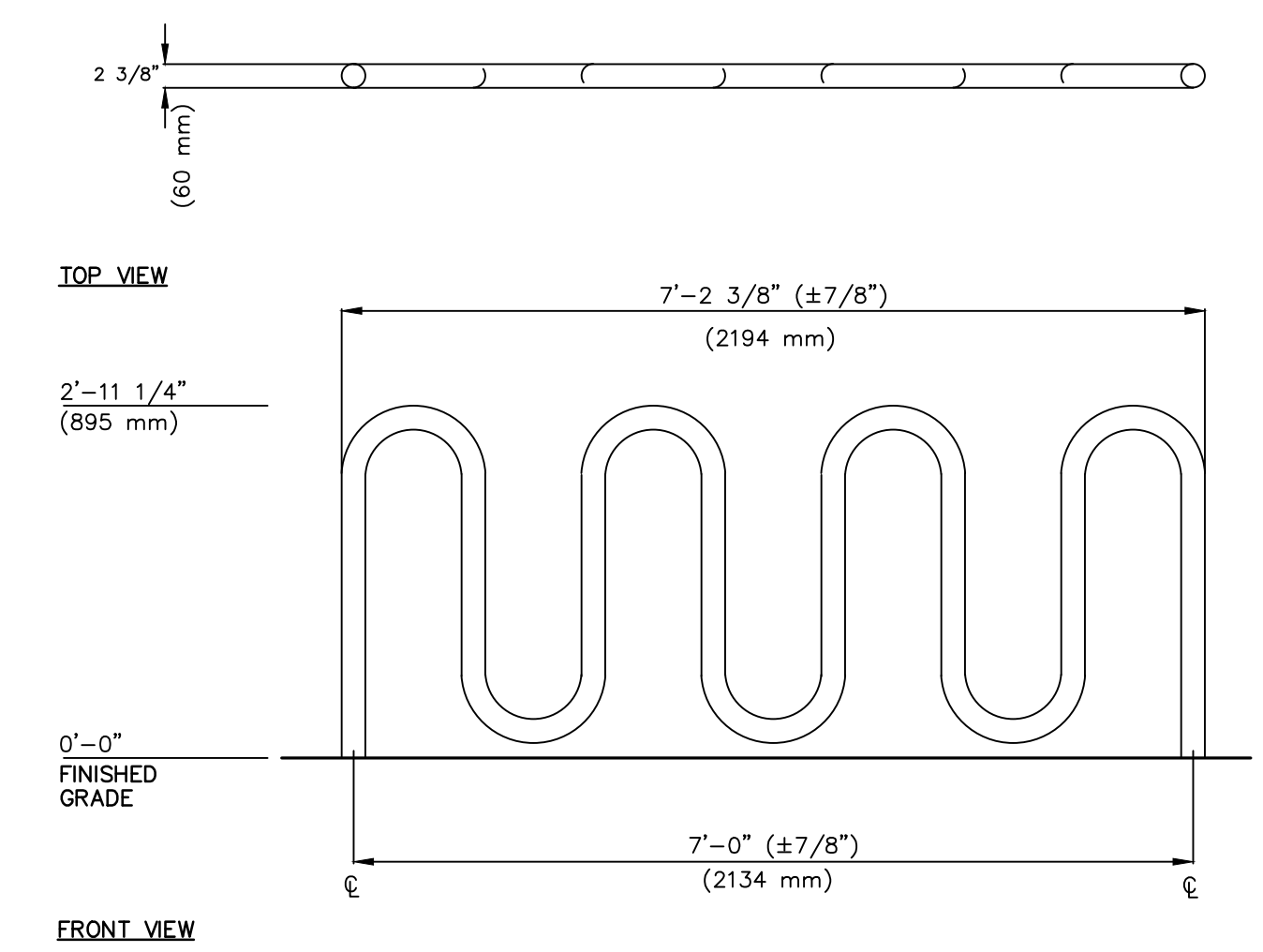
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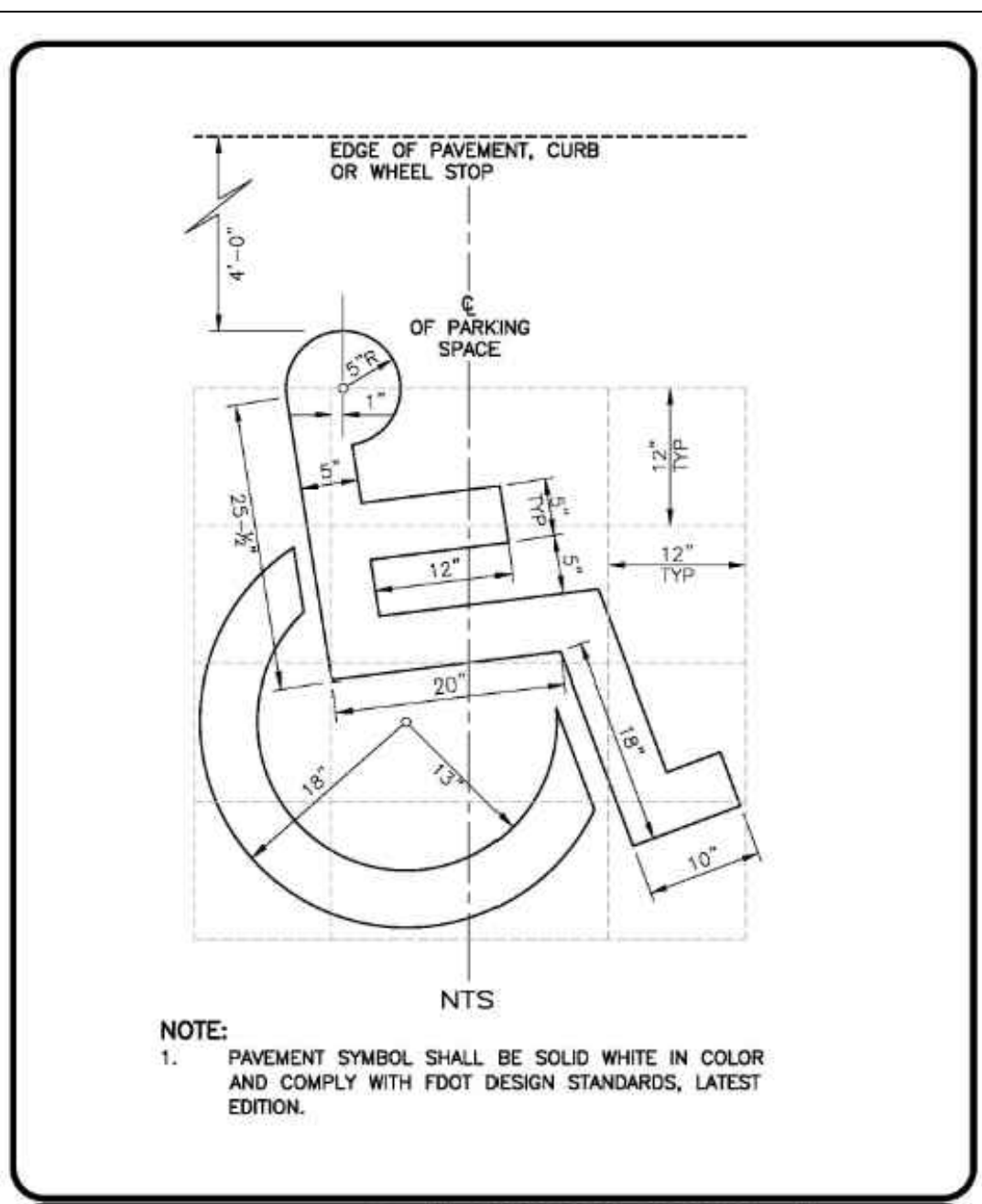
All Sidewalk Curb Ramps Shall Have Detectable Warning Surfaces That Extend The Full Width Of The Ramp And In The Direction Of Travel 24 Inches (610 mm) From The Back Of Curb.

NOTE: On Ramps That Are Perpendicular With The Curb Line, The Dome Pattern Shall Be In-Line With The Direction Of Travel. On Ramps Intersecting Curb On A Radius, The Dome Pattern Shall Be In-Line With The Direction Of Travel To The Extent Practical.

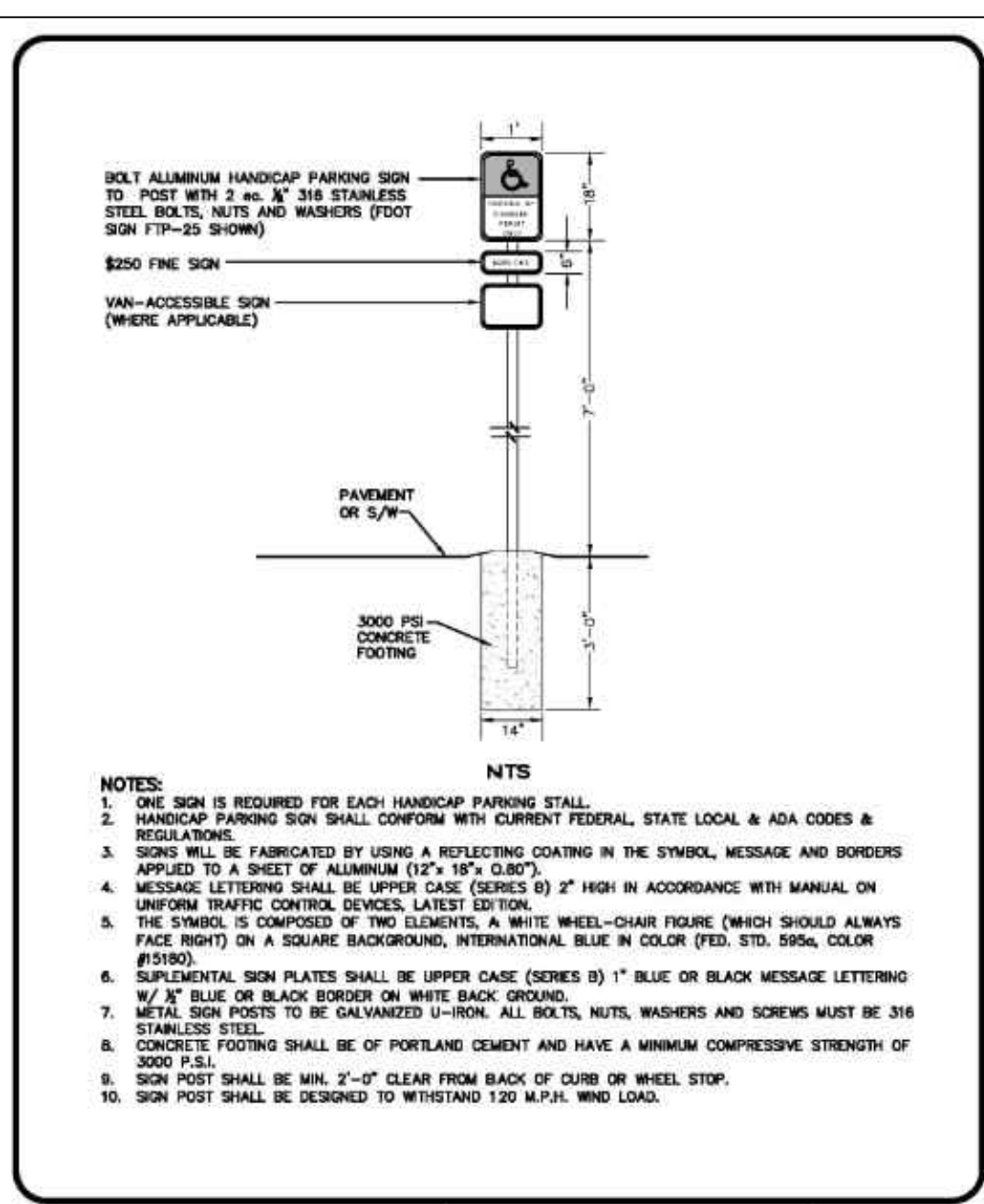
ADA DETECTABLE WARNING DETAIL



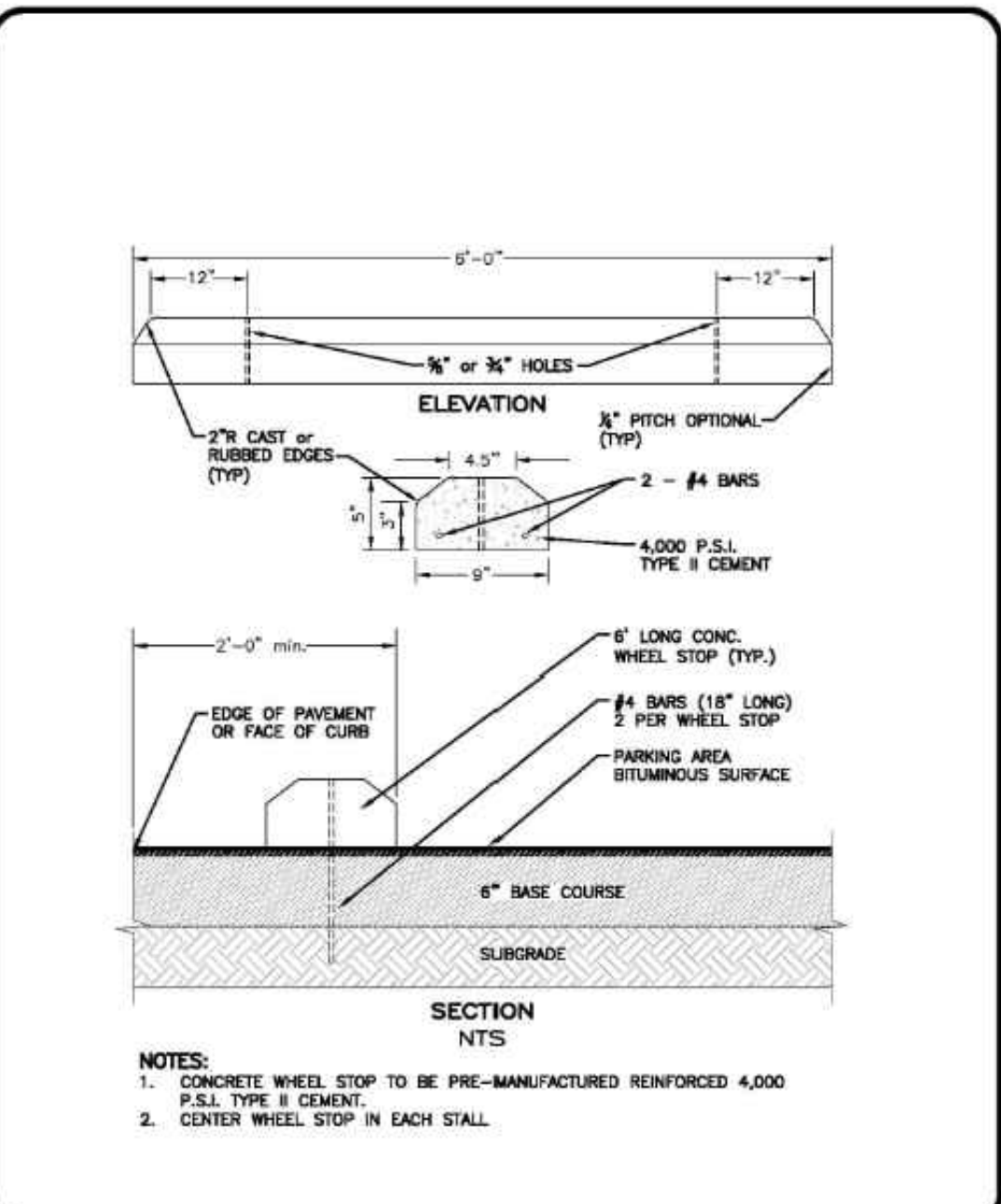
HANDICAP PARKING SPACE STRIPING DETAIL
M-4



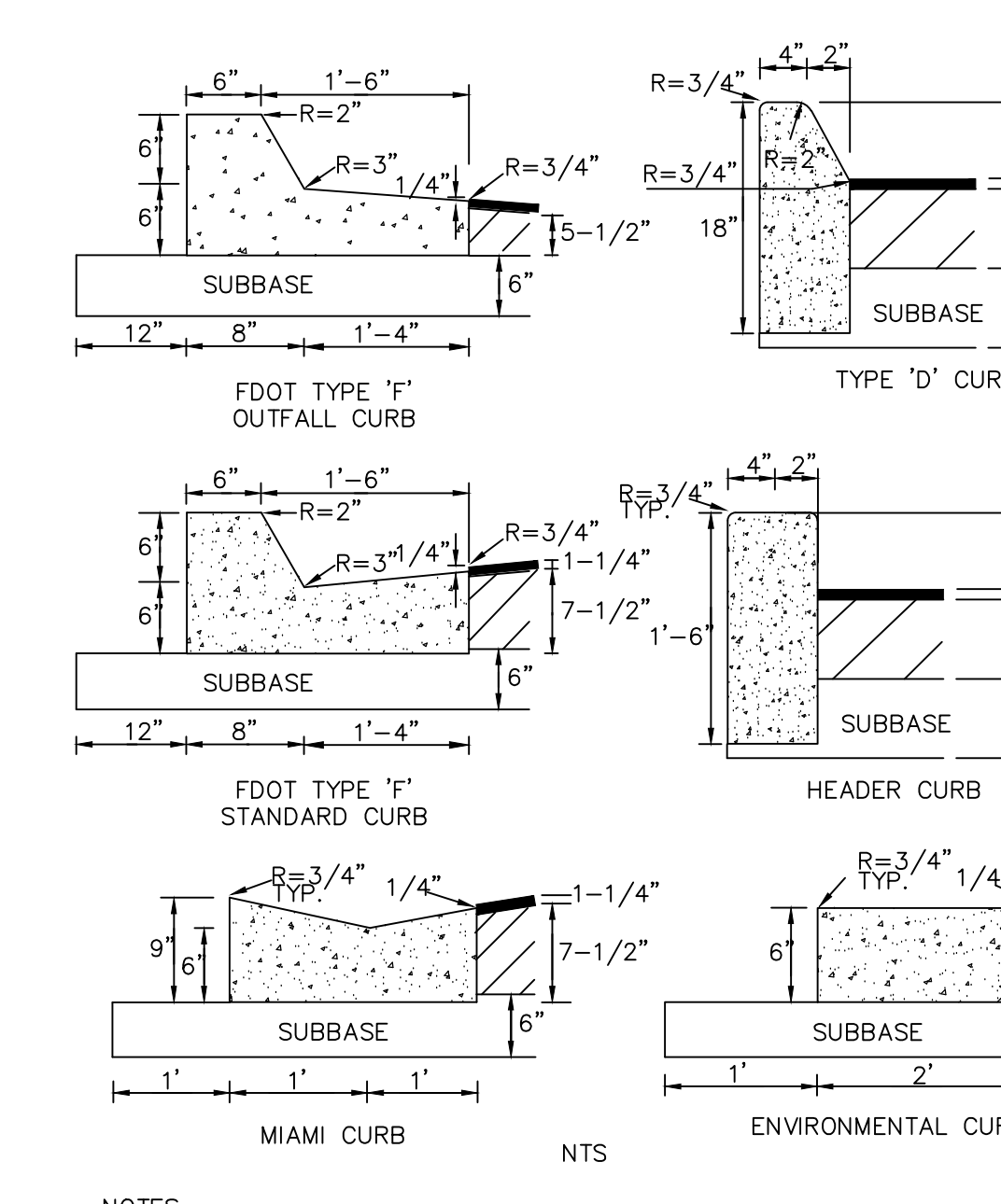
HANDICAP PARKING PAVEMENT SYMBOL DETAIL
M-6



HANDICAP PARKING SIGN DETAIL (FDOT TYPE FFP-25)
M-8

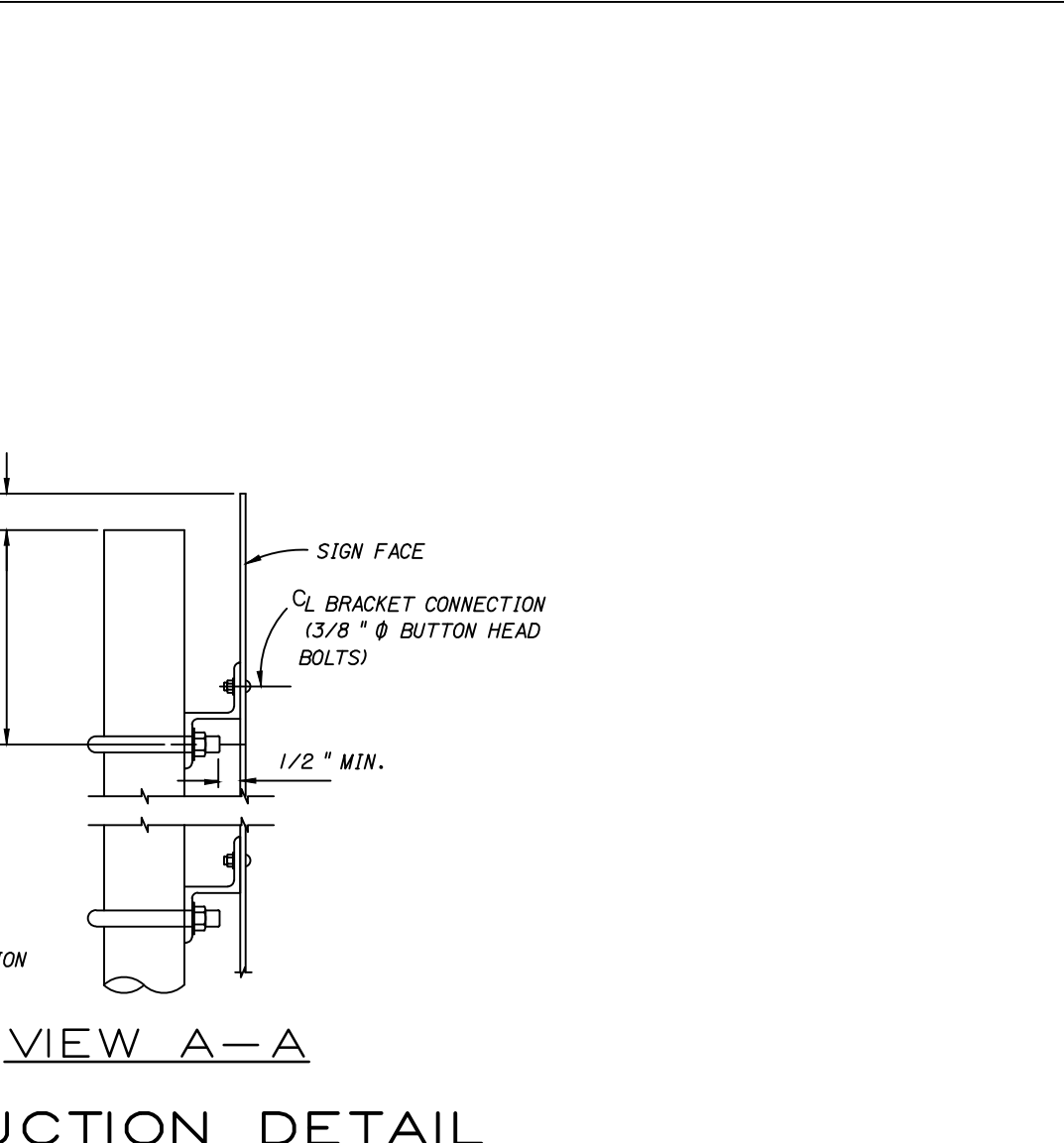


PARKING WHEEL STOP DETAIL
M-1



NOTES:
1. ALL CURBS TO BE CONSTRUCTED OF 28 DAY, 3000 P.S.I. CONCRETE
2. 1/2\"/>

ROADWAY CURB CONSTRUCTION DETAIL
DB M-7 DATED 2-23-07



STOP SIGN CONSTRUCTION DETAIL

DEV. #2017-104
CITY APPROVAL STAMP

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REVISIONS

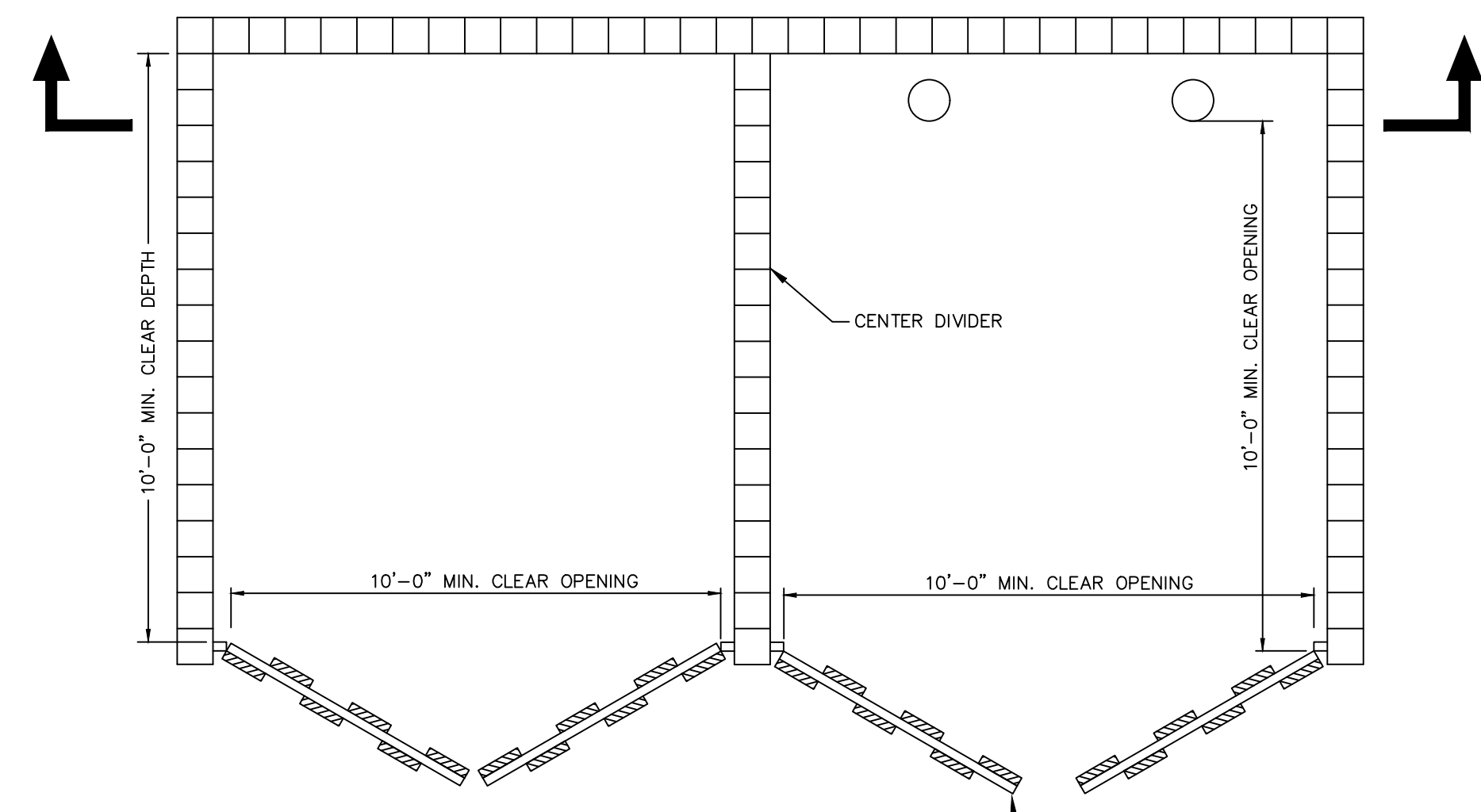
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CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

PAVING & DRAINAGE DETAILS

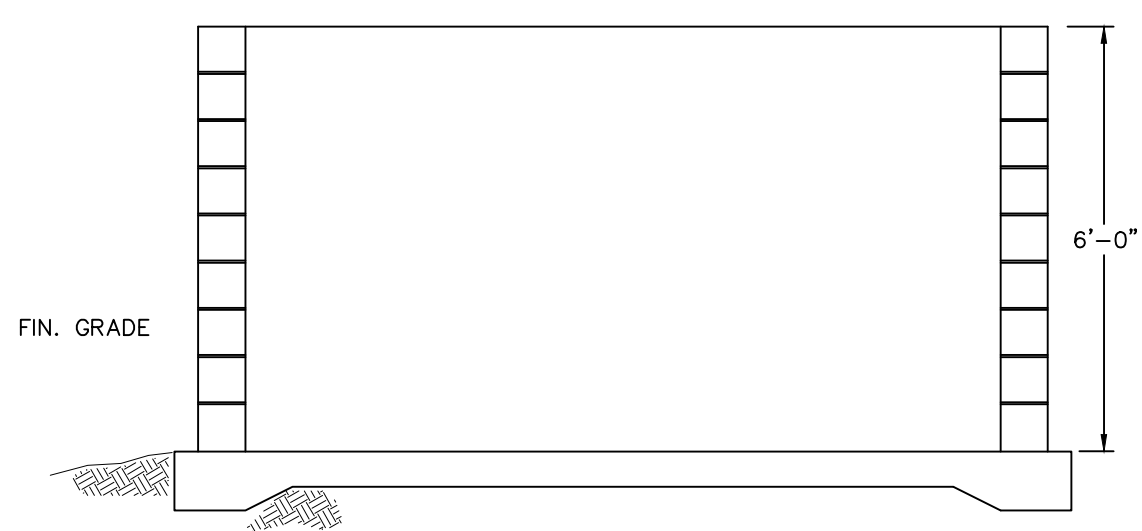
FIRST STEP HOMELESS ASSISTANCE SHELTER
DAYTONA BEACH * FLORIDA

FILE NO. 1622PD.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: NONE	SHEET 12 OF 18

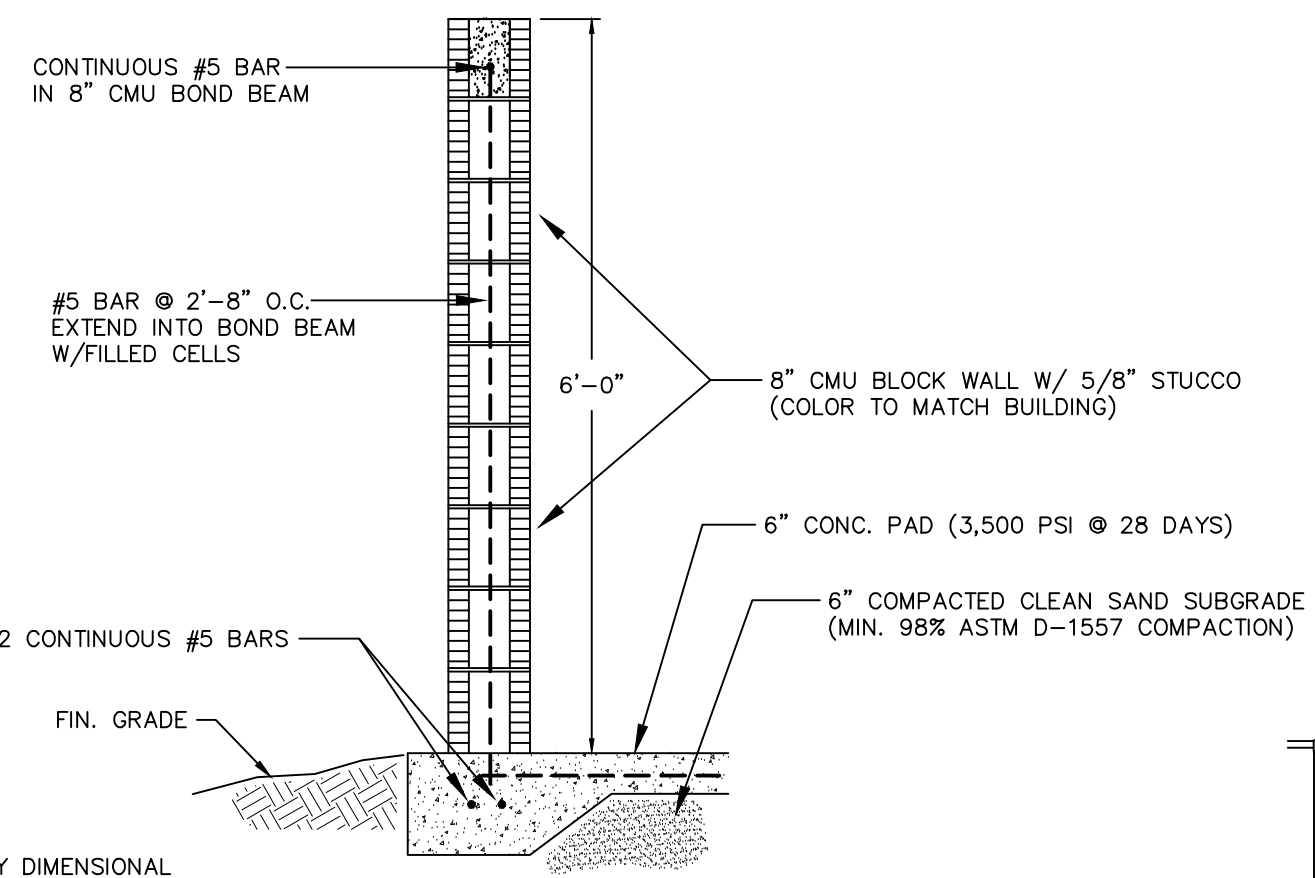
SEAL



PLAN VIEW



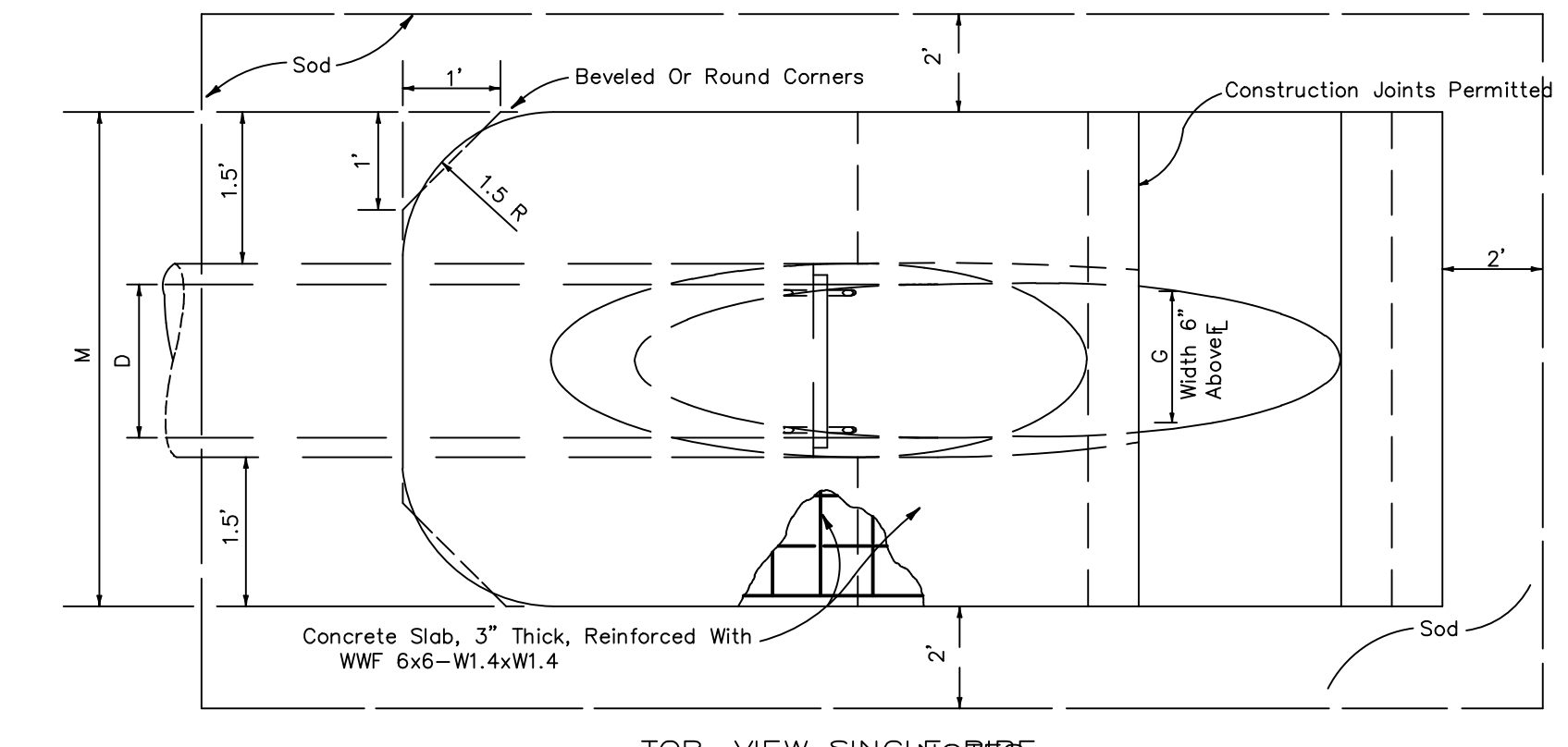
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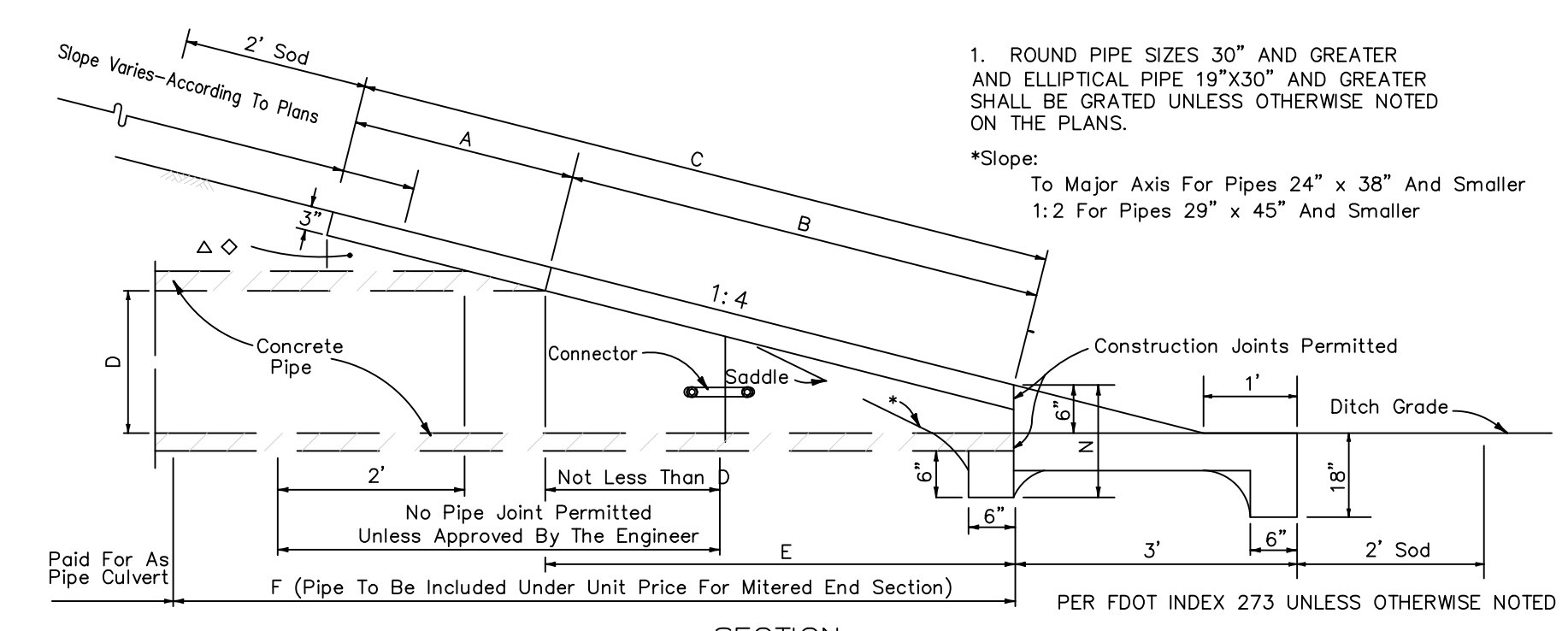
WALL SECTION

DIMENSIONS & QUANTITIES												
D	X	A	B	C	E	F	G	M				N
								Single Pipe	Double Pipe	Triple Pipe	Quad Pipe	
15"	2'-7"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.63'	7.21'	9.79'	12.37'	1.19'
18"	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.92'	7.75'	10.58'	13.42'	1.21'
24"	3'-5"	2.53'	7.18'	9.71'	7.03'	11'	1.73'	5.50'	8.92'	12.33'	15.75'	1.25'
30"	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	6.08'	10.33'	14.58'	18.83'	1.29'
36"	5'-1"	2.87'	11.31'	14.18'	11.03'	15'	2.24'	6.67'	11.75'	16.83'	21.92'	1.33'
42"	6'-0"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	7.29'	13.25'	19.25'	25.29'	1.38'
48"	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	7.83'	14.58'	21.33'	28.08'	1.42'
54"	7'-8"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	8.42'	16.08'	23.75'	31.42'	1.46'
60"	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	9.00'	17.50'	26.00'	34.50'	1.50'

△ 6.42' △ 6.25' Dimensions permitted to allow use of 8" standard pipe lengths.
 ◇ 10.40' ◇ 10.10' Dimensions permitted to allow use of 12" standard pipe lengths.
 △ ◇ Concrete slab shall be deepened to form bridge across crown of pipe. See section below.



TOP-VIEW SINGLE PIPE



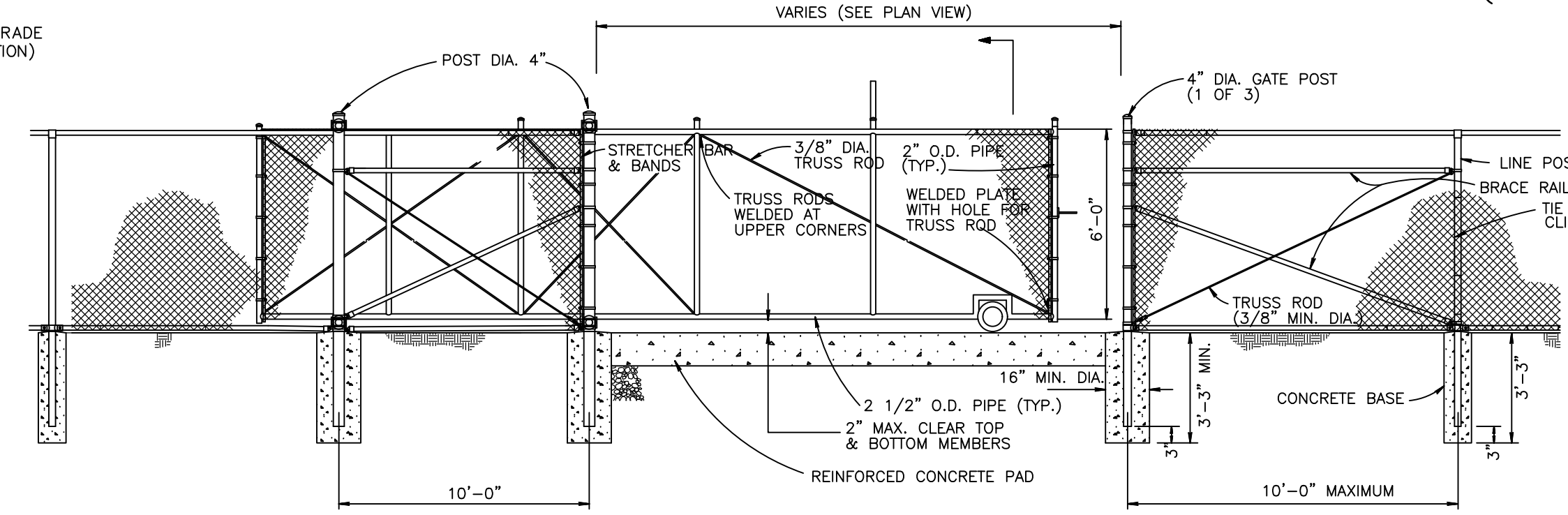
FDOT MITERED END SECTION-WITHOUT GRATE (SINGLE PIPE) ST-20

- NOTES:
- BLOCK MUST BE FINISHED WITH STUCCO OR BRICK VENER PAINTED TO MATCH BUILDING.
 - DUMPSTER STRUCTURE SHALL MEET THE REQUIREMENTS OF CHAPTER 2, ARTICLE 3, 2-50, J OF THE LAND DEVELOPMENT CODE (LDC).
 - SHRUB PLANTINGS REQUIRED (MIN. 3-FOOT WIDE PLANTING AREA) AROUND PERIMETER WALLS (EXCEPT OPENING).
 - GATES TO BE CONSTRUCTED OF PRESSURE-TREATED WOOD, OR APPROVED EQUAL.
 - IF THE CITY HAS A CONTRACTOR FOR ROLL OFF SERVICE, NO OTHER CONTRACTOR SHALL BE PERMITTED TO PROVIDE THIS SERVICE. VERIFY COMPANY UNDER CONTRACT WITH THE CITY.
 - DUMPSTER ENCLOSURE HEIGHT MAY BE INCREASED TO A MAXIMUM HEIGHT OF EIGHT (8) FEET.
 - IF BOLLARDS ARE INSTALLED CLEAR DEPTH MUST BE MEASURED FROM BOLLARDS TO GATES.

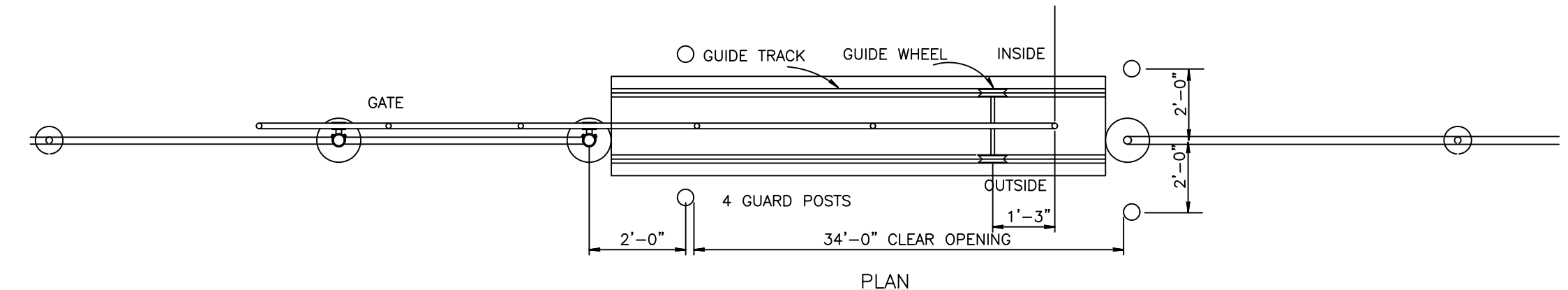
- NOTE TO DESIGNER:
- THIS DETAIL REFLECTS CITY DIMENSIONAL REQUIREMENTS FOR THE DUMPSTER ENCLOSURE ONLY.
 - PROVIDE PROPOSED WALL MATERIAL AND HORIZONTAL AND VERTICAL WALL REINFORCING REQUIREMENTS.
 - PROVIDE PROPOSED SLAB DESIGN REQUIREMENTS INCLUDING REINFORCING.
 - PROVIDE ANY OTHER CONSTRUCTION DETAILS THAT MAY BE REQUIRED.

DUAL-USE DUMPSTER ENCLOSURE INDEX
 M-6
 MARCH 2014

NOTE: SEE SITE PLAN FOR VARIATION

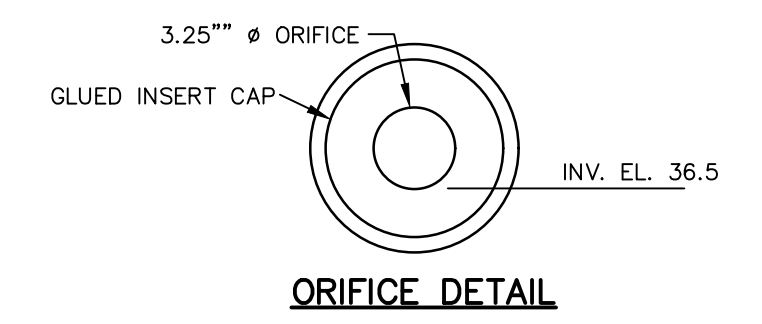


ELEVATION

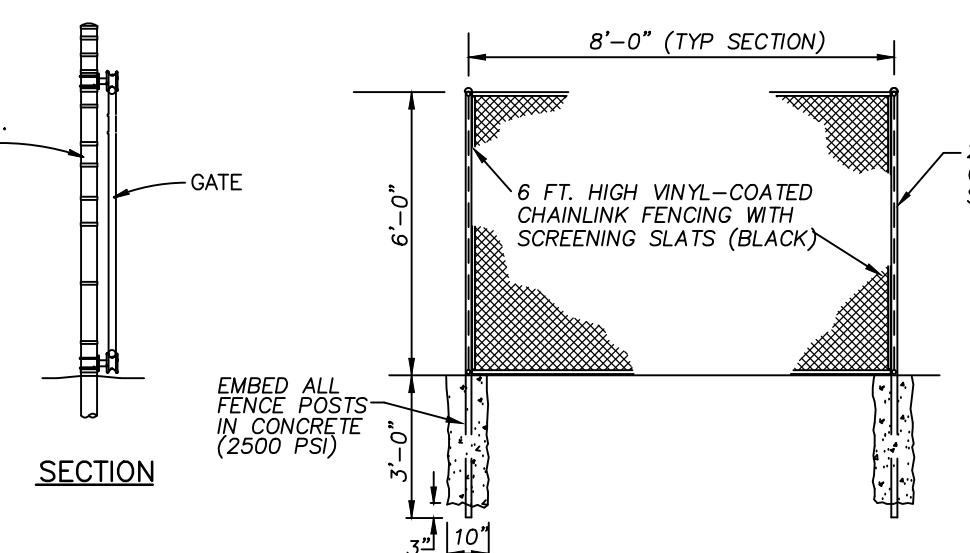


PLAN

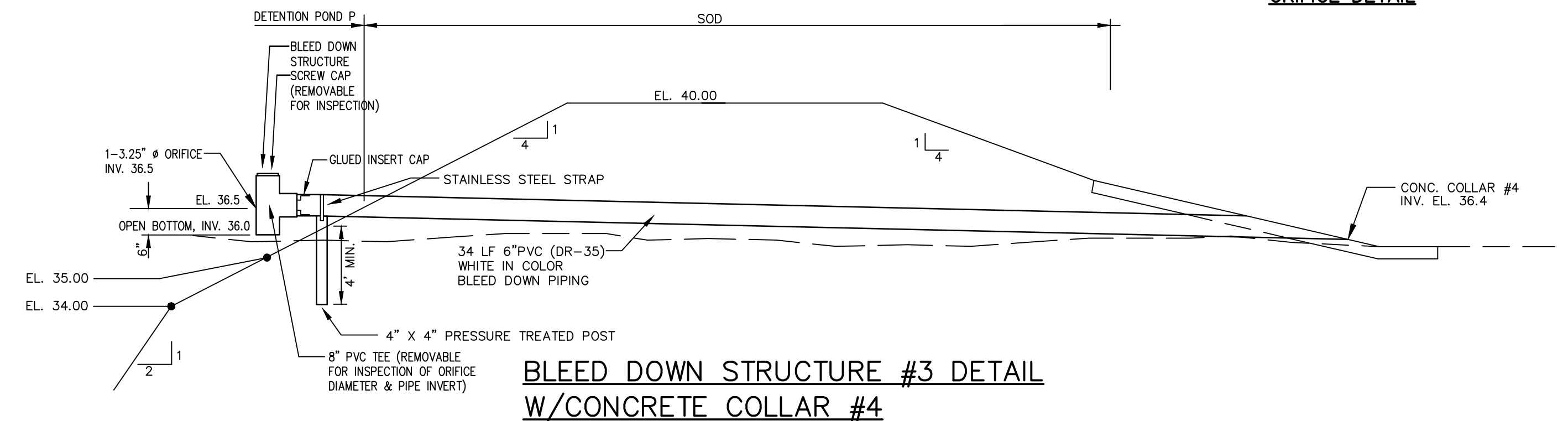
ROLLING GATE & FENCE DETAILS



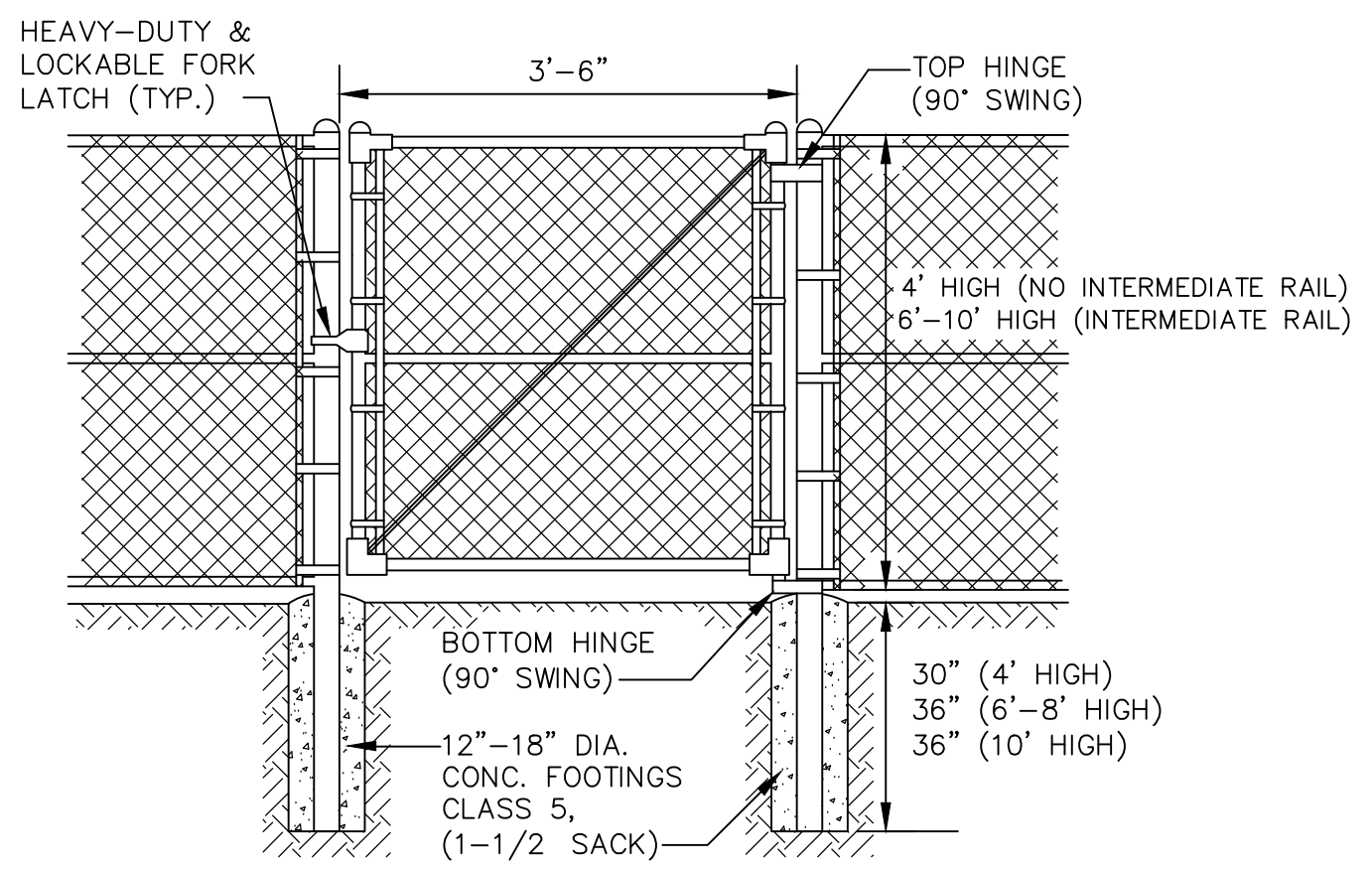
ORIFICE DETAIL



ELEVATION SCREENING FENCE



BLEED DOWN STRUCTURE #3 DETAIL W/CONCRETE COLLAR #4



TYPICAL PEDESTRIAN GATE

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FDOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SJRWMD	BVB

REVISIONS

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

PAVING & DRAINAGE DETAILS

FIRST STEP HOMELESS ASSISTANCE SHELTER
 DAYTONA BEACH * FLORIDA

FILE NO. 1622PD.DWG DESIGNER: P.MYNCHENBERG
 DATE: 7/12/17 CADD TECH: BVB
 SCALE: NONE SHEET 13A OF 18

DEV. #2017-104
 CITY APPROVAL STAMP

Offset zone:
 a. Behind an existing barrier,
 b. More than 2' behind the curb,
 c. 15' or more from the edge of travel way.

GENERAL NOTES

- If the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the offset zone in any one hour, traffic control will be in accordance with Index No. 612.
- No special signing is required.
- This index also applies when work is being performed on a multilane undivided highway.
- This index also applies to work performed in the median behind an existing barrier or more than 15' from the edge of travel way, both roadways. Work performed in the median behind curb and gutter shall be in accordance with Index No. 612.
- When a side road intersects the highway within the work area, additional traffic control devices shall be placed in accordance with other applicable TCZ Indexes.
- When construction activities encroach on a sidewalk, refer to Index No. 660.
- For general TCZ requirements and additional information, refer to Index No. 600.

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE BEHIND AN EXISTING BARRIER, MORE THAN 2' BEHIND THE CURB, OR 15' OR MORE FROM THE EDGE OF TRAVEL WAY.

LAST REVISION	DESCRIPTION	INDEX NO.	SHEET NO.
07/01/05		611	1 of 1

Table I Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	50	100
50 to 75	25	50	50	100

Table II Taper Length - Shoulder

Speed (mph)	L _s (ft.)			Notes
	# Shldr.	# Shldr.	# Shldr.	
25	25	25	45	WS
30	40	50	60	
35	55	64	82	WS
40	72	90	107	
45	120	150	180	LMS
50	133	167	200	
55	147	183	228	LMS
60	160	200	240	
65	173	217	260	LMS
70	187	233	280	

GENERAL NOTES

- When a high volume of work vehicles are entering and leaving the Work Area at speeds slower than 10 MPH below the posted speed, place an R07-5-06 sign in the ROAD WORK AHEAD sign location and shift the ROAD WORK AHEAD sign upstream 500 ft.
- This TCZ plan also applies to work performed in the median more than 2' but less than 15' from the edge of travelway.
- When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
- WORKERS signs to be removed or fully covered when no work is being performed.
- SHOULDER WORK sign may be used as an alternate to the WORKER sign.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

- Signs and channelizing devices may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUSH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

LAST REVISION	DESCRIPTION	INDEX NO.	SHEET NO.
01/01/16		612	1 of 1

Table I Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	50	100
50 to 75	25	50	50	100

Table II Buffer Space and Taper Length

Speed (mph)	Buffer Space (ft.)	Taper Length (Lateral Transition) (ft.)		Notes
		L	W	
25	155	125		WS
30	200	180		
35	250	245		WS
40	305	320		
45	360	340		WS
50	425	600		
55	495	660		WS
60	570	720		
65	645	780		WS
70	730	840		

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.
 - The same applies to undivided highways with the following exceptions:
 - Work shall be confined within one median lane.
 - Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.
- Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
- The two channelizing devices directly in front of the work area may be omitted provided vehicles to the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index No. 612 for shoulder taper formulas.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
- This TCZ plan does not apply when work is being performed in the middle lanes of a six or more lane highway. See Index No. 614.
- For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

- Temporary white edgeline may be omitted for work operations less than 3 consecutive calendar days.
- For work operations up to approximately 35 minutes, signs, channelizing devices, arrow boards, and buffer space may be omitted if all of the following conditions are met:
 - Speed limit is 45 mph or less.
 - No sign obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
 - Volume and complexity of the roadway has been considered.
 - The closed lane is occupied by a class 3 or larger, medium duty truck(s) with a minimum gross weight vehicle rating (GWVR) of 16,000 lb with high-intensity, rotating, flashing, oscillating, or strobe lights mounted above the cab height and operating.
- For work operations up to 60 minutes, arrow board and buffer space may be omitted if conditions a, b, and c in DURATION NOTE 2 are met, and vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Advance Warning Arrow Board

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUSH ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

LAST REVISION	DESCRIPTION	INDEX NO.	SHEET NO.
01/01/16		613	1 of 2

6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FDOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SJRWMD	BVB
NO.	DATE	DESCRIPTION	BY

REVISIONS

PARKER MYNCHENBERG & ASSOCIATES, INC.
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 (386)677-6891 FAX(386)677-2114 E-MAIL: info@parkermynchenberg.com
 CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

FDOT DETAILS

FIRST STEP HOMELESS ASSISTANCE SHELTER
 DAYTONA BEACH * FLORIDA

FILE NO. 1622PD.DWG	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: NONE	SHEET 13B OF 18

SEAL

Y:\FIRST STEP FINAL SITE PLAN\1622PD.dwg 3/8/2018 4:51:20 PM DWG TO PDF.PC3

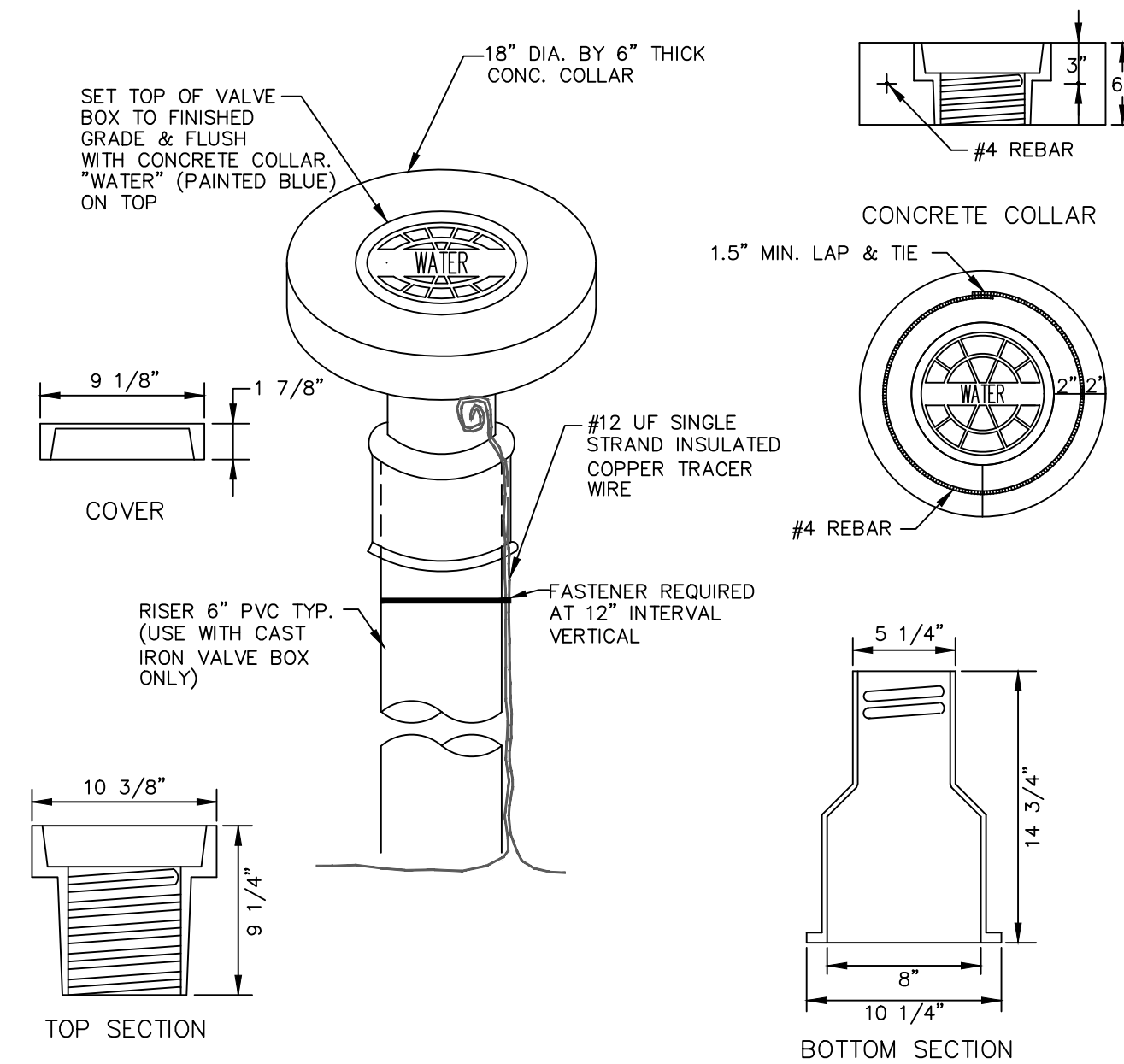
LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches is preferred 6 inches minimum	Alternate 3 ft. minimum
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum
On-Site Sewage Treatment & Disposal System	10 ft. minimum	--	--

- (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
 (2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
 (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
 (4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

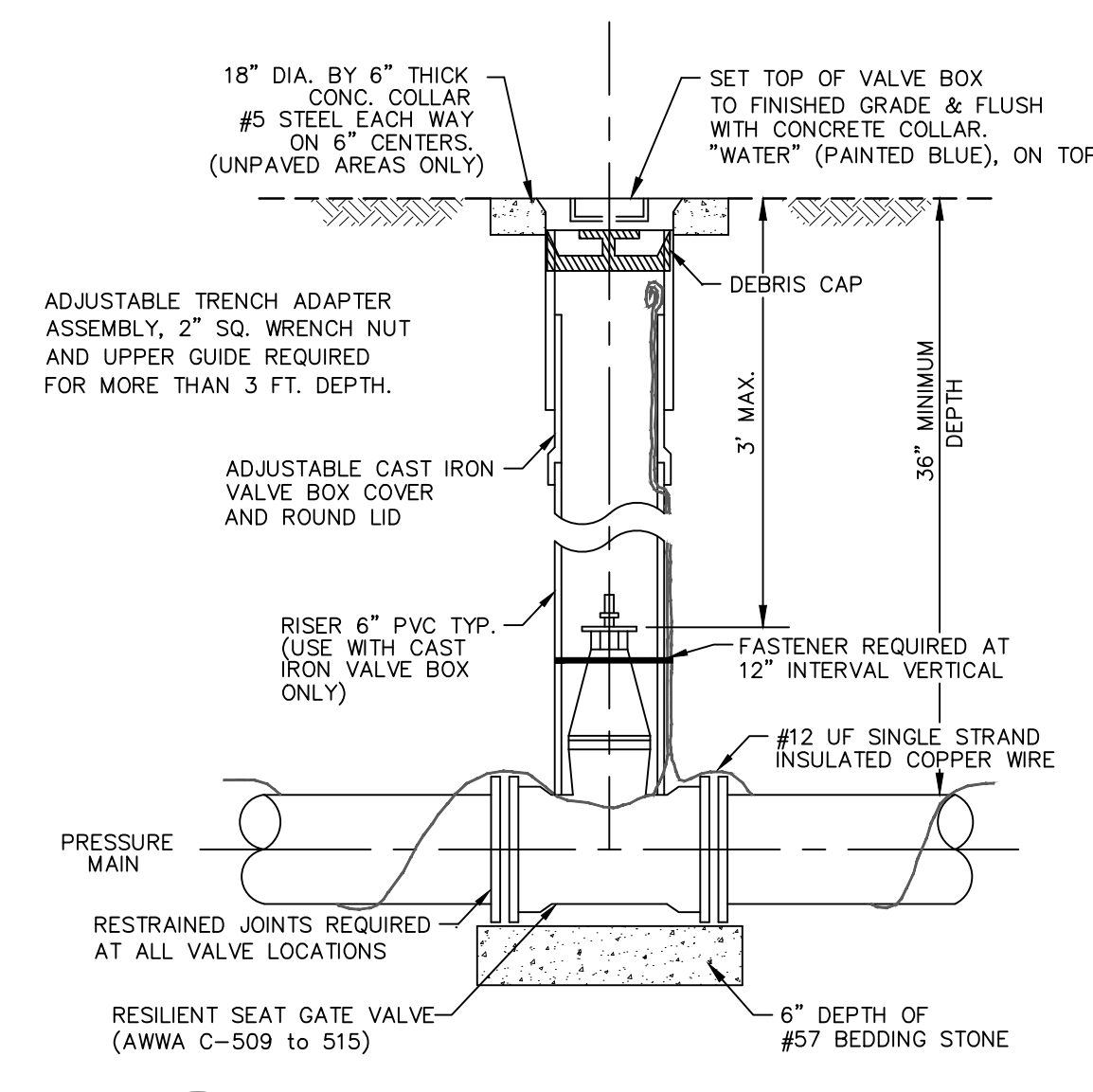
Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.

WATER MAIN SEPARATION CHART
W-9



- NOTE:
 1. WATER MAIN VALVE BOX AND COVER SHALL BE ADJUSTABLE SCREW TYPE.
 2. TRACER WIRE TO BE INSTALLED ON ALL NON-METALLIC MAINS

WATER MAIN VALVE BOX
NTS
MAIN VALVE BOX
DETAIL
W-17



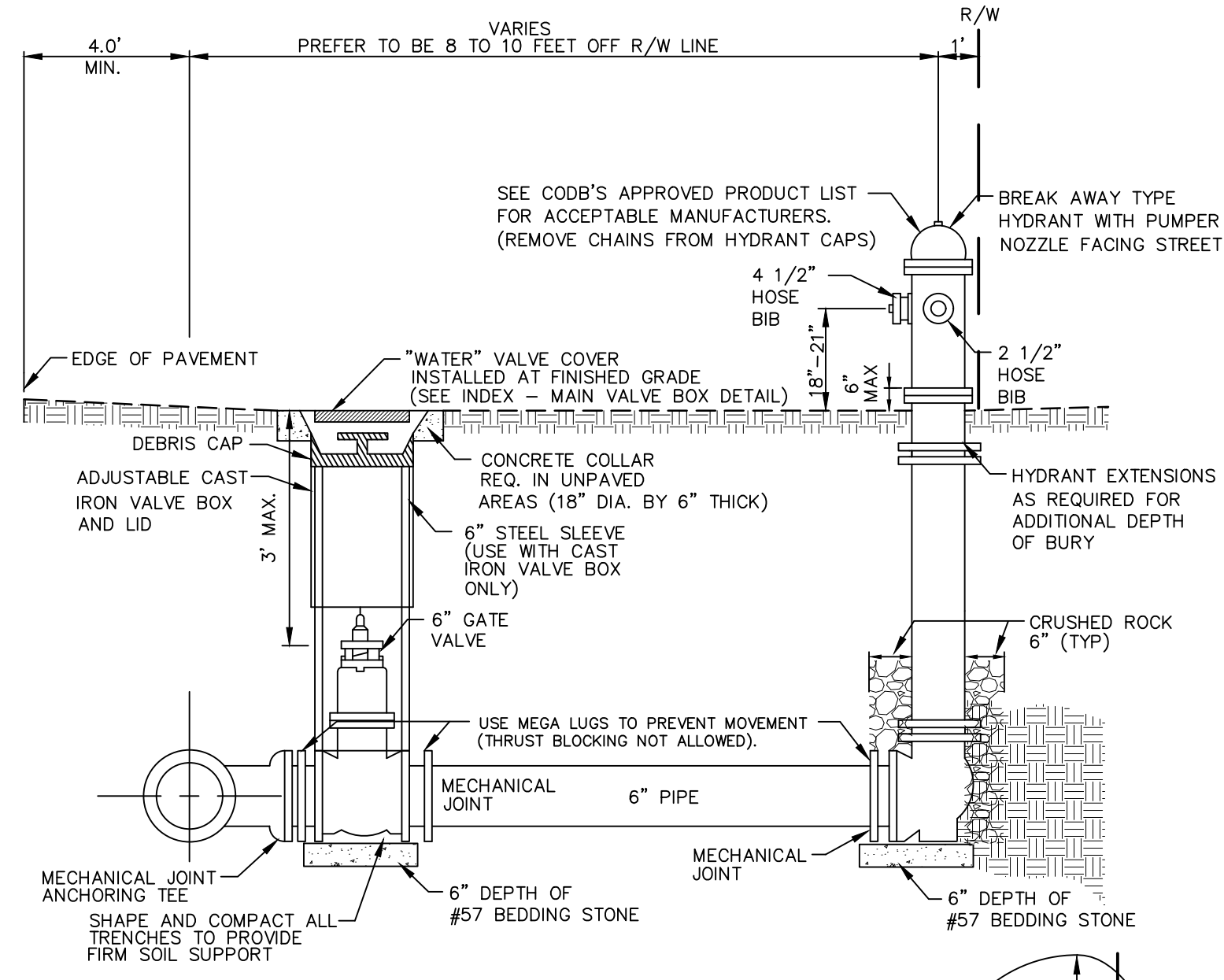
- NOTES:
 1. ROD OR BOLT TEE WHERE APPLICABLE.
 2. SEE CODB'S APPROVED PRODUCT LIST FOR ACCEPTABLE MANUFACTURERS.
 4. INSTALL RESTRAINED JOINTS, AS REQUIRED, FROM DEFLECTION POINT IN BOTH DIRECTIONS (20' MIN.)

POTABLE WATER COVER
WATER VALVE & VALVE BOX DETAILS
NTS
WATER VALVE AND VALVE BOX
DETAIL
W-16

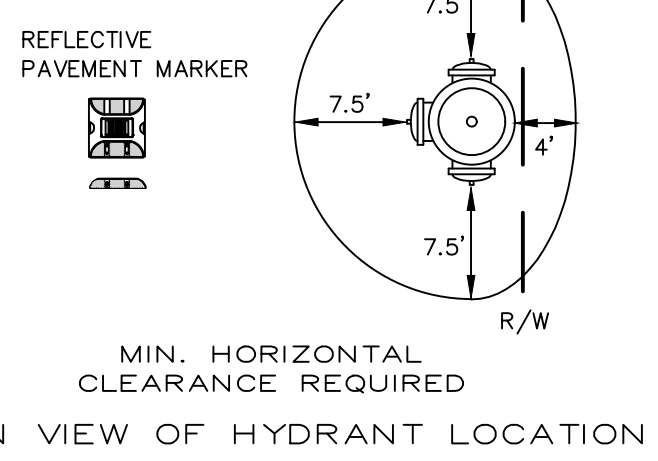
FITTING	SCHEDULE OF LENGTHS OF RESTRAINED DIP (FT.)				
	90° BEND	45° BEND	22.5° BEND	11.25° BEND	TEE OR DEAD END
PIPE SIZE (IN.) :					
4"	21 (26)	18 (18)	18 (18)	18 (18)	37 (55)
6"	30 (36)	18 (18)	18 (18)	18 (18)	52 (78)
8"	38 (45)	18 (18)	18 (18)	18 (18)	67 (100)
10"	45 (54)	18 (22)	18 (18)	18 (18)	81 (122)
12"	52 (63)	22 (26)	18 (18)	18 (18)	94 (141)
14"	60 (72)	25 (30)	18 (18)	18 (18)	107 (160)
16"	66 (80)	27 (33)	18 (18)	18 (18)	120 (180)
18"	74 (87)	31 (36)	18 (18)	18 (18)	132 (198)
20"	80 (94)	33 (39)	18 (18)	18 (18)	144 (216)
24"	92 (108)	38 (45)	18 (22)	18 (18)	167 (250)
30"	106 (128)	44 (53)	21 (25)	18 (18)	199 (298)
36"	69 (82)	28 (34)	18 (18)	18 (18)	170 (204)
42"	76 (92)	31 (37)	18 (18)	18 (18)	191 (229)
48"	90 (106)	40 (46)	18 (18)	18 (18)	212 (254)

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
 COVER DEPTH: 3 FEET (MIN.)
 SAFETY FACTOR: 1.5
 TRENCH TYPE: 2

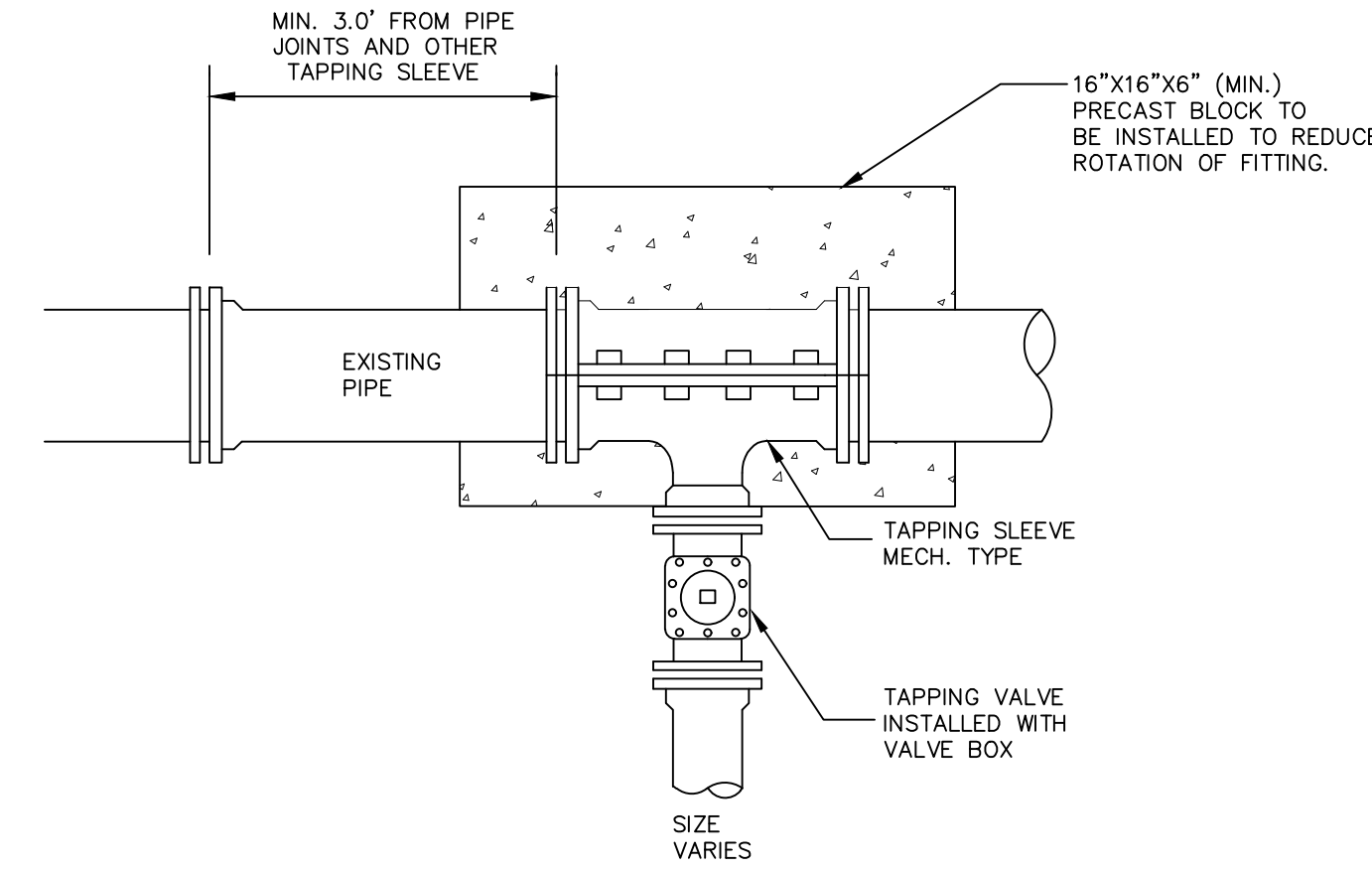
VALUES IN PARENTHESIS (X) ARE FOR PIPE ENCASED IN POLYETHYLENE.
 * VALUES APPLY TO DUCTILE IRON PIPE AT 50 PSI TEST PRESSURE.
 DIP RESTRAINED JOINT TABLE
W-10



- NOTES:
 1. HYDRANTS SHALL BE OF THE SELF DRAINING TYPE.
 2. HYDRANTS ARE TO BE SUPPLIED FROM THE MANUFACTURER WITH A SILVER PRIMER.
 3. HOSE BIBS TO BE AMERICAN STANDARD THREADS.
 4. RESTRAINED JOINTS REQUIRED. THRUST BLOCKS ARE NOT PERMITTED.
 5. ADJUSTABLE TRENCH ADAPTOR ASSY. REQUIRED FOR ALL VALVES GREATER THAN 3' DEEP.
 6. INSTALL AT SIDE LOT LINES OR AT CORNERS OF ROADWAY RIGHT-OF-WAY INTERSECTIONS (TYPICAL).
 7. INSTALL AT 500' RADIUS OF COVERAGE.
 8. REFLECTIVE PAVEMENT MARKER INSTALLED 3' INTO PAVEMENT (TYPICAL).
 9. FIRE HYDRANT TESTING SHALL BE FLOWED THRU THE 2 1/2" OPENINGS. TEST RESULTS SHALL BE ACTUAL, NOT ESTIMATED. FLOW TESTING SHALL BE SUBMITTED TO THE CITY AS LISTED.
 ACTUAL GPM _____
 STATIC _____ PSI
 RESIDUAL _____ PSI
 THE CITY WILL DETERMINE THE COLOR OF THE BONNET.
 10. FIRE HYDRANT BODY SHALL BE PAINTED COLOR 151 OSHA YELLOW PRIOR TO ACCEPTANCE BY THE CITY.



FIRE HYDRANT ASSEMBLY
NTS
FIRE HYDRANT ASSEMBLY
DETAIL
W-18



- EPOXY COATED STEEL, STAINLESS STEEL, AND SPLIT DUCTILE MECHANICAL TAPPING SLEEVES ARE ALL PERMITTED FOR ALL TYPES OF PIPE MATERIALS.
 INSTALL REQUIRED RESTRAINED JOINTS. IN NO INSTANCE SHALL THRUST BLOCK BE PERMITTED.
 ALL TAPPING OF MAINS SHALL BE PERFORMED BY THE CITY AND BILLED IN ACCORDANCE WITH THE ADOPTED FEE RESOLUTION.

TAPPING SLEEVE & VALVE

DEV #2017-104
CITY APPROVAL STAMP

NOTE:
PROVIDE RESTRAINED JOINTS ON ALL PIPE AND FITTINGS AS REQUIRED

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FDOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
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REVISIONS

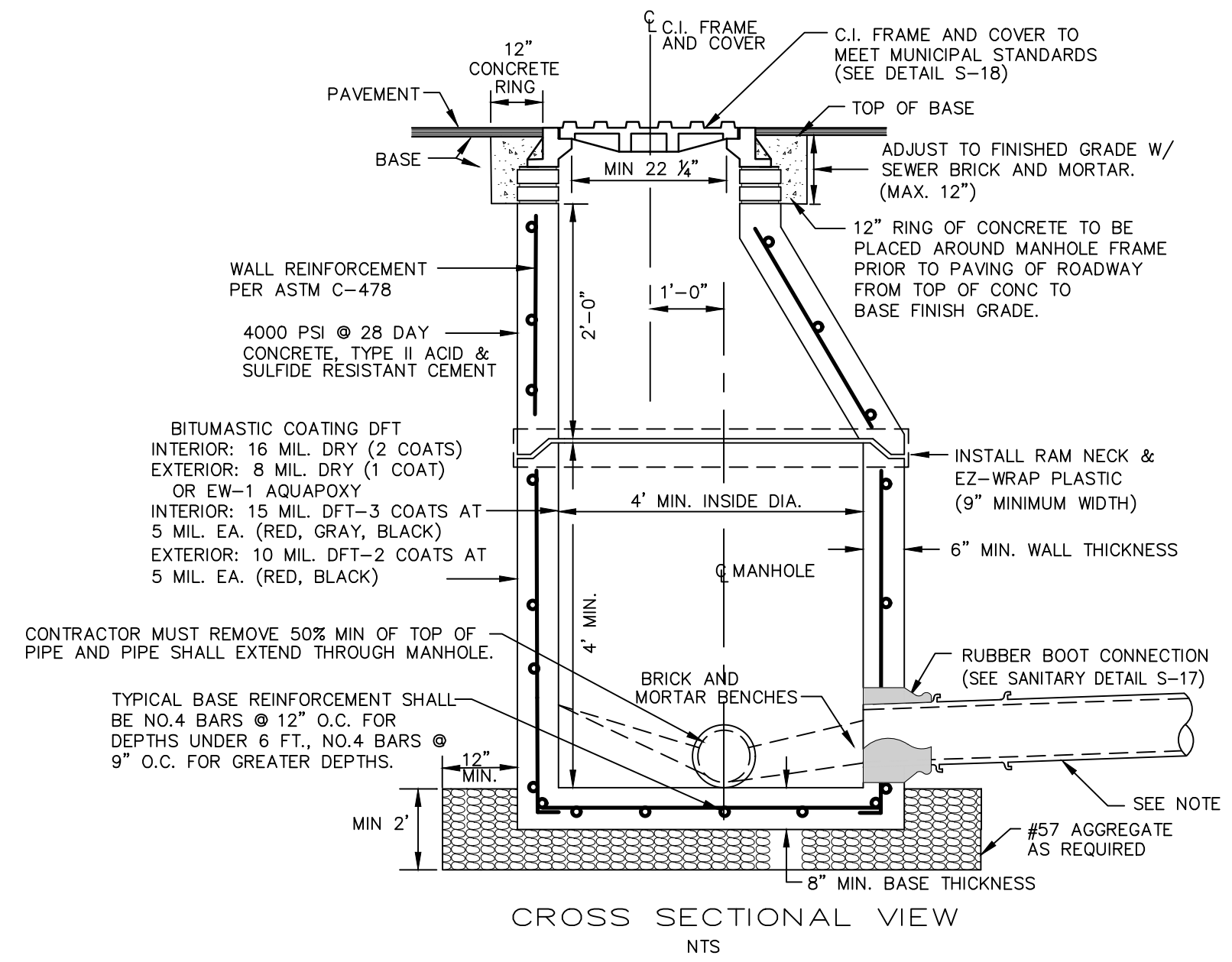
PARKER MYNCHENBERG & ASSOCIATES, INC.
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 CERTIFICATE OF AUTHORIZATION NUMBER: 00003910

WATER STANDARD DETAILS

FIRST STEP
HOMELESS ASSISTANCE SHELTER
DAYTONA BEACH * FLORIDA

FILE NO. 1622WD_REV.dwg	DESIGNER: P.MYNNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: NONE	SHEET 15 OF 18

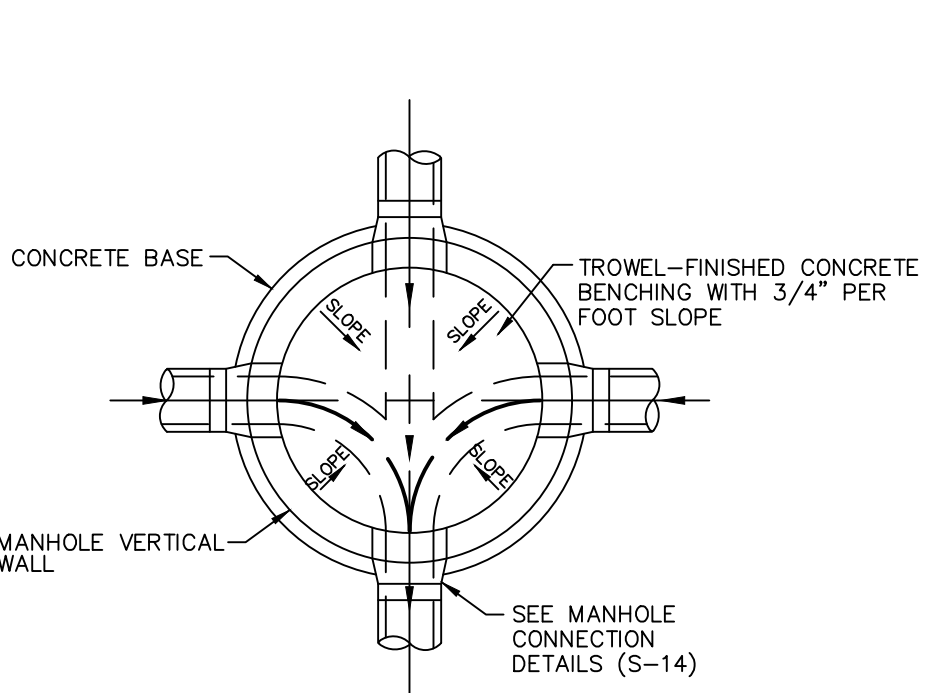
SEAL



- NOTES:**
- ON TRANSITIONS BETWEEN LARGER DIAMETER AND SMALLER SEWER COLLECTORS, INVERTS OF SEWERS SHALL BE MATCHED.
 - LAST 60' OF F.M. 12" PIPING ENTERING SEWER MANHOLE SHALL BE P.V.C. C-900 PLACED AT A NEGATIVE GRADE. 15' AND ABOVE SHALL BE P.V.C. C-905.
 - NON-PENETRATING PICK-HOLES IN ALL CONCRETE SECTIONS.
 - DFT = DRY FILM THICKNESS
 - 0.1' - DROP ACROSS MANHOLE TYP. (MEASURED DIA. OF CONCRETE RING)
 - MANHOLES 8' DEEP OR GREATER SHALL HAVE A MIN. 4' HIGH WALL BASE.
 - ANY PIPE ENTERING MANHOLE MUST HAVE A RUBBER BOOT CONNECTION.
 - MORTAR TO CONTAIN "HYDRATITE", OR APPROVED EQUAL, TO PREVENT SHRINKAGE.
 - SUB-GRADE BENEATH MANHOLES SHALL BE UNDISTURBED GRANULAR UNSATURATED SOIL. No. 57 AGGREGATE STONE SHALL BE USED IN WET CONDITIONS AND/OR WHERE UNSUITABLE MATERIAL IS ENCOUNTERED.
 - CONTRACTOR SHALL PROVIDE THICKER MANHOLE WALLS AND BASES AS REQUIRED TO PREVENT FLOTATION BASED ON HISTORIC HIGH GROUND WATER TABLE ELEVATIONS AS DETERMINED USING ACCEPTED ENGINEERING PRACTICES AND/OR APPROVED BY UTILITIES DEPARTMENT.
 - SHOP DRAWINGS FOR ALL STRUCTURES SHALL BE SUBMITTED TO AND APPROVED BY THE DESIGN ENGINEER PRIOR TO INSTALLATION.
 - NO BUG HOLES OR HONEYCOMB WILL BE ACCEPTED.
 - ENDS OF THE TOP AND BOTTOM SECTIONS OF THE MANHOLE SHALL FIT FLUSH TOGETHER.
 - SANITARY SEWER MANHOLES WHICH HAVE SEWER FORCE MAINS DISCHARGING DIRECTLY INTO THEM, OR ANY MANHOLE WITHIN 200 FEET OF A LIFT STATION, SHALL BE FIBERGLASS OR PVC LINED. RETRO-FITTING OF MANHOLES WITH LINERS SHALL BE REQUIRED WHEN NEW CONNECTIONS SUCH AS THIS ARE MADE. FIBERGLASS SHALL BE A MINIMUM 1/2" THICKNESS UNLESS APPROVED OTHERWISE BY THE CITY. LINING SHALL BE AGRU SURE-GRIP OR PRE-APPROVED EQUAL.

STANDARD SANITARY SEWER MANHOLE

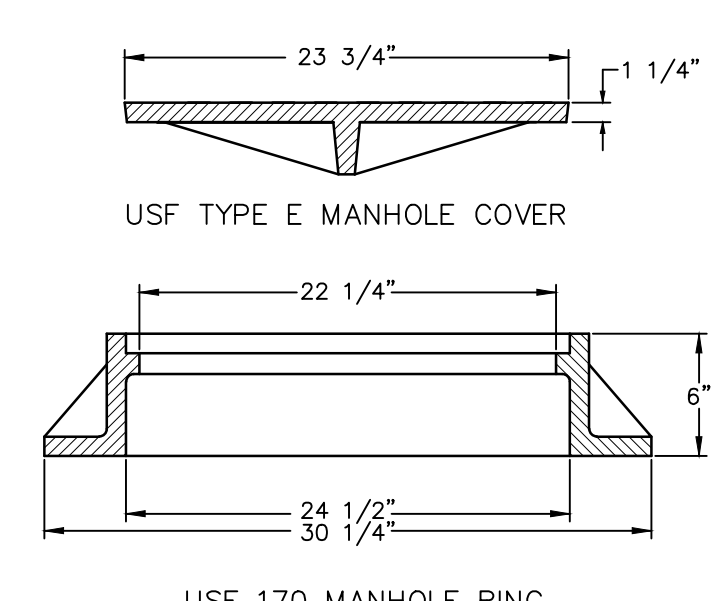
SANITARY SEWER MANHOLE AND GENERAL NOTES S-13



- NOTES:**
- FLOW CHANNELS SHALL HAVE THE SAME SLOPES AS THE SEWERS THEY ARE CONNECTED TO, (EXCEPT THAT AT CHANGES OF DIRECTION EXCEEDING 45°, THE DROP SHALL BE 0.1' MINIMUM)
 - NO STANDING WATER WILL BE ALLOWED.
 - FORM BENCH IN MANHOLE FROM MID-LINE OF 8" PIPE TO WALL OF MANHOLE, 3/4" PER FT. OF SLOPE. FOR LARGER PIPE, CONSTRUCT FROM INSIDE CROWN OF PIPE WITH 3/4" PER FT. OF SLOPE TO WALL.

SANITARY MANHOLE INVERT DETAIL

SANITARY MANHOLE INVERT DETAIL S-16



NOTES:

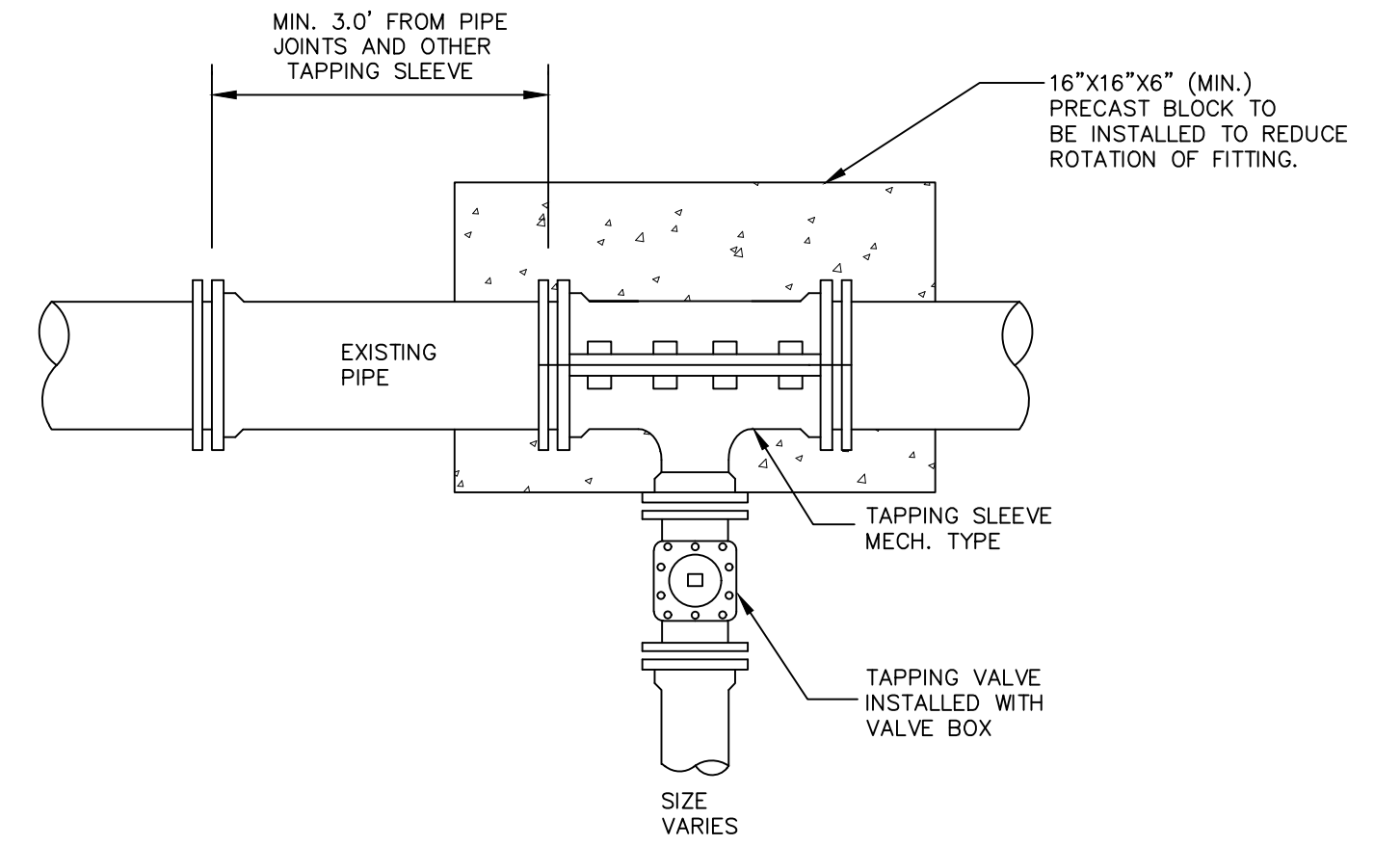
- UNLESS DETAILED PLANS SHOW OTHERWISE, ALL MANHOLE RING AND COVER CASTINGS IN PAVED AREAS ARE TO BE ADJUSTED TO FINAL GRADE, SEALED AND SECURED IN PLACE WITH A CONCRETE COLLAR AFTER THE ROAD BASE IS PLACED AND JUST PRIOR TO PLACEMENT OF ASPHALT WEARING SURFACE.
- CONCRETE COLLAR AROUND MANHOLE FRAME IS REQUIRED IN PAVED AREAS ONLY.

SANITARY SEWER COVER & GENERAL NOTES

SANITARY SEWER COVER DETAIL S-18

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	63
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	148
18"	69	29	18	18	163
20"	75	31	18	18	179
24"	87	36	18	18	208
30"	102	42	20	18	248

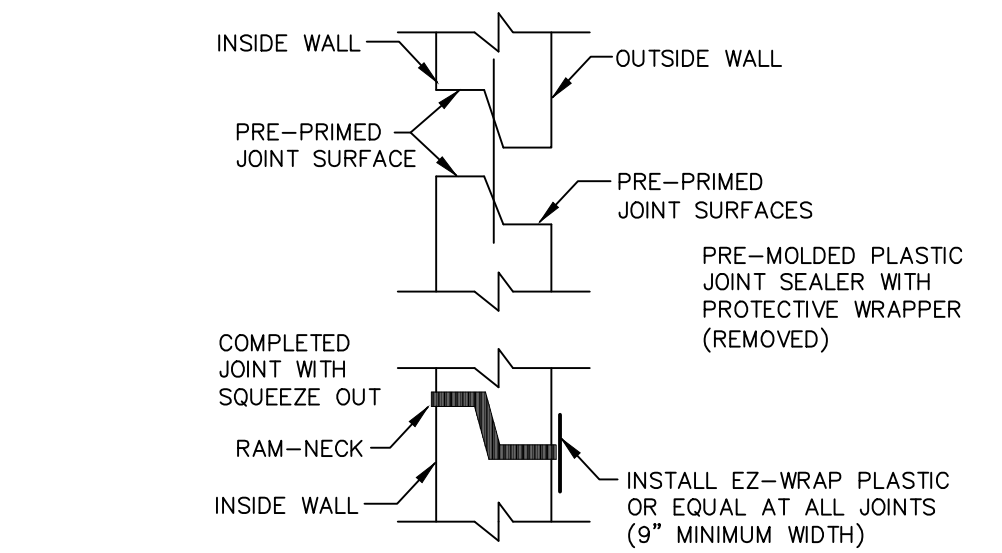
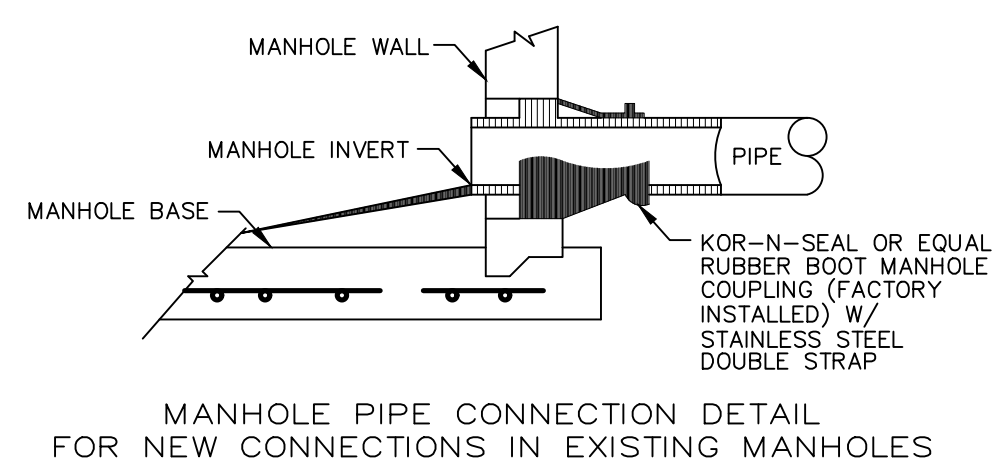
LENGTHS BETWEEN HEAVY LINES INDICATE ONE FULL LENGTH (18' MIN.) OF PIPE TO BE RESTRAINED.
 TABLE SHOWS MINIMUM LENGTH OF PIPE EACH WAY FROM FITTING FOR WHICH RESTRAINT IS REQUIRED.
 TABLE APPLIES TO PVC PIPE FOR THE FOLLOWING CONDITIONS:
 TEST PRESSURE: 150 PSIG
 SOIL TYPE: SP
 COVER DEPTH: 3 FEET (MIN.)
 SAFETY FACTOR: 1.5
 TRENCH TYPE: 2



NOTES:

- EPOXY COATED STEEL, STAINLESS STEEL, AND SPLIT DUCTILE MECHANICAL TAPPING SLEEVES ARE ALL PERMITTED FOR ALL TYPES OF PIPE MATERIALS.
- INSTALL REQUIRED RESTRAINED JOINTS. IN NO INSTANCE SHALL THRUST BLOCK BE PERMITTED.
- ALL TAPPING OF MAINS SHALL BE PERFORMED BY THE CITY AND BILLED IN ACCORDANCE WITH THE ADOPTED FEE RESOLUTION.

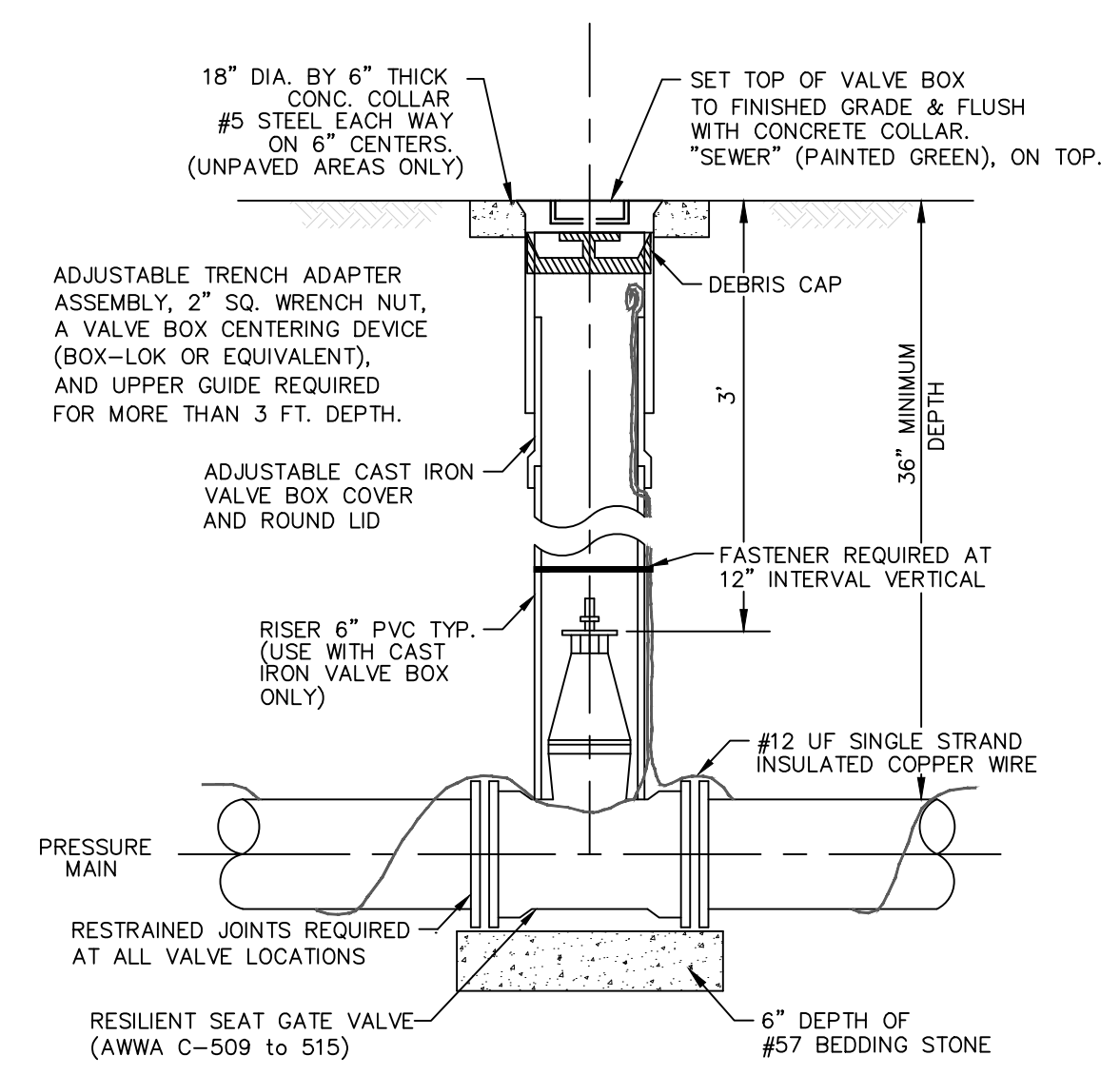
TAPPING SLEEVE & VALVE



- NOTES:**
- ALL NEW CONNECTIONS TO EXISTING SANITARY SEWER MANHOLES SHALL UTILIZE A CORING METHOD AND THE IN-FIELD INSTALLATION OF A RUBBER BOOT INTO THE MANHOLE.
 - BOOTS SHALL BE SNAPPED IN PLACE AND WATER TIGHT.

RUBBER BOOT AND PRECAST JOINT CONNECTION DETAIL

RUBBER BOOT AND PRECAST JOINT CONNECTION DETAIL S-17



NOTES:

- ROD OR BOLT TEE WHERE APPLICABLE.
- FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION THE LOCATION OF ALL VALVES AND VALVE BOXES BY STATE PLANE COORDINATES WITH STATION & OFFSETS FROM CL OF R/W.
- #12 INSULATED SOLID COPPER UF TRACER WIRE SHALL BE LAID THE ENTIRE LENGTH OF THE REUSE PIPE. ALL CONNECTION ENDS SHALL USE LIQUID TAPE AND A DIRECT BURIED SPLICE KIT (LAWSON 95313) OR EQUIVALENT.
- ANY VALVE DEEPER THAN 36" SHALL HAVE AN EXTENSION BOLTED ON THE VALVE. THE OPERATING NUT SHALL BE 12" BELOW FINISHED GRADE.
- WHERE PLUG VALVES ARE SPECIFIED THE CONCRETE COLLAR SURROUNDING THE TOP OF THE VALVE BOX SHALL HAVE AN ENGRAVED 2" x 6" BRASS NAME PLATE CLEARLY MARKED "PLUG VALVE" IN 1" HIGH BLOCK PRINT LETTERS.

SANITARY VALVE & VALVE BOX DETAILS

SANITARY VALVE AND VALVE BOX DETAIL S-19

DEV #2017-104
CITY APPROVAL STAMP

NOTE:
PROVIDE RESTRAINED JOINTS ON ALL PIPE AND FITTINGS AS REQUIRED

NO.	DATE	DESCRIPTION	BY
6	3/8/18	REVISED PER CITY COMMENTS	BVB
5	2/28/18	REVISED PER ARCHITECT'S REVIEW	BVB
4	2/7/18	REVISED PER FOOT COMMENTS	BVB
3	12/5/17	REVISED PHASE 1 PARKING	BVB
2	10/12/17	REVISED PER CITY COMMENTS	BVB
1	10/11/17	REVISED PER SJRWMD	BVB

REVISIONS

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

SEWER STANDARD DETAILS

FIRST STEP HOMELESS ASSISTANCE SHELTER
 DAYTONA BEACH * FLORIDA

FILE NO. 1622SD_REV.dwg	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: NONE	SHEET 17 OF 18

SEAL

SUMMARY OF PAY ITEMS

FIRST STEP HOMELESS ASSISTANCE SHELTER-PHASE 1

ENGINEER'S QUANTITY ESTIMATE

PAVING & DRAINAGE

ITEM DESCRIPTION	QUANTITY	UNIT
1 Mobilization (Max. 5%)	1	LS
2 Grubbing	10.35	AC
3 Earthwork (Includes Imported Material)	10,500	CY
4 Bahia Sod	20,170	SY
5 Maintenance of Traffic	1	LS
6 Striping & Signage	1	LS
7 Concrete Wheel Stops	48	EA
8 15" RCP	60	LF
9 15" MES	2	EA
10 1 1/2" Type SP-9.5 Asphalt Surface Course	306	TN
11 6" Crushed Concrete Base (LBR 140) Compacted to 98% Density Per AASHTO T-180 Modified Proctor Test	6,103	SY
12 6" Compacted Sub Base, LBR 40 OR FBV 75 PSI	6,103	SY
13 1" Type SP-9.5 Asphalt Surface Course (Traffic C)	46	TN
14 2" Type SP-12.5 Asphalt Structural Course (Traffic C)	92	TN
15 10" Crushed Concrete Base (LBR 140) Compacted to 98% Density per AASHTO T-180 Modified Proctor Test	904	SY
16 12" Type B Stabilization, LBR 40	904	SY
17 6" Stabilized Shoulder, FBV 75 PSI	416	SY
18 6" Concrete 3500 p.s.i.	1,573	SY
19 2" Environmental Curb	48	LF
20 Type F Curb	1,440	LF
21 Detectable Warning	11	EA
22 PVC Bleed Down	1	EA
23 Concrete Overflow Weir	1	EA
24 4" PVC Conduit	240	LF
25 6" PVC Conduit	480	LF
26 6 Ft. High Black Vinyl Coated Chain Link Fence	1,800	LF
27 24 Ft. Double Rolling Gate	2	EA
28 Bike Rack	3	EA
29 Flag Pole	1	EA

SANITARY SEWER

ITEM DESCRIPTION	QUANTITY	UNIT
30 8" PVC Gravity Sewer Pipe DR 26	700	LF
31 8" Plug	1	EA
32 Sanitary Manhole	3	EA
33 6" PVC Gravity Sewer Pipe DR 26	413	LF
34 6" Plug	3	EA
35 6" Cleanout	9	EA
36 6" Two Way Cleanout	2	EA
37 1,500 Gal. Grease Interceptor	2	EA

FIBER OPTIC

ITEM DESCRIPTION	QUANTITY	UNIT
38 6" HDPE Fiber Optic	596	LF
39 6" Plug	1	EA
40 Junction Box	2	EA

WATER

ITEM DESCRIPTION	QUANTITY	UNIT
41 12" DIP Water Main	355	LF
42 10" DIP Water Main	912	LF
43 8" DIP Water Main	10	LF
44 6" DIP Water Main	710	LF
45 3" PVC DR-21	383	LF
46 3" Service Tap w/Valve and Reduced Pressure Backflow Preventer	1	EA
47 Fire Hydrant w/Valve	3	EA
48 Fire Department Connection	1	EA
49 3" Valve	3	EA
50 3" Plug	2	EA
51 12" x 6" Tee	1	EA
52 12" Valve	1	EA
53 12" Plug	1	EA
54 10" x 6" x 10" Tee DIP	2	EA
55 10" Valve DIP	2	EA
56 10" DIP 45° Bend	1	EA
57 2" Blow Off Assembly	1	EA
58 10" x 6" Reducer	1	EA
59 10" x 8" Reducer	2	EA
60 8" Reduced Pressure Backflow Preventer	1	EA
61 6" Check Valve	1	EA
62 6" Post Indicator Valve	1	EA

SOIL EROSION & SEDIMENT CONTROL

ITEM DESCRIPTION	QUANTITY	UNIT
63 Staked Silt Fencing	2,820	LF
64 Gravel Construction Entrance	1	EA
65 Landscape	1	LS
66 Monument Sign	1	EA
67 Seed & Mulch	6,000	SY
68 4" Conduit (Communication)	1,620	LF
69 3'x 2'x 3' Vault with Stone Drainage	5	EA
70 4" Conduit (Security)	416	LF
71 Downlight (Single)	20	EA
72 Downlight (Double)	2	EA

ALTERNATE A

1 8 Ft. High Black Vinyl Coated Chain Link Fence	968	LF
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DEV. #2017-104
CITY APPROVAL STAMP

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R E V I S I O N S

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SUMMARY OF PAY ITEMS

FIRST STEP HOMELESS ASSISTANCE SHELTER DAYTONA BEACH * FLORIDA	
FILE#1622_SUM OF PAY ITEMS.dwg	DESIGNER: P.MYNCHENBERG
DATE: 7/12/17	CADD TECH: BVB
SCALE: NONE	SHEET 18 OF 18

SEAL