

CITY OF DAYTONA BEACH

S. BEACH STREET - LIVE OAK AVE. TO BETHUNE POINT WRF

FORCEMAIN IMPROVEMENTS

PROJECT NO. 6361-3

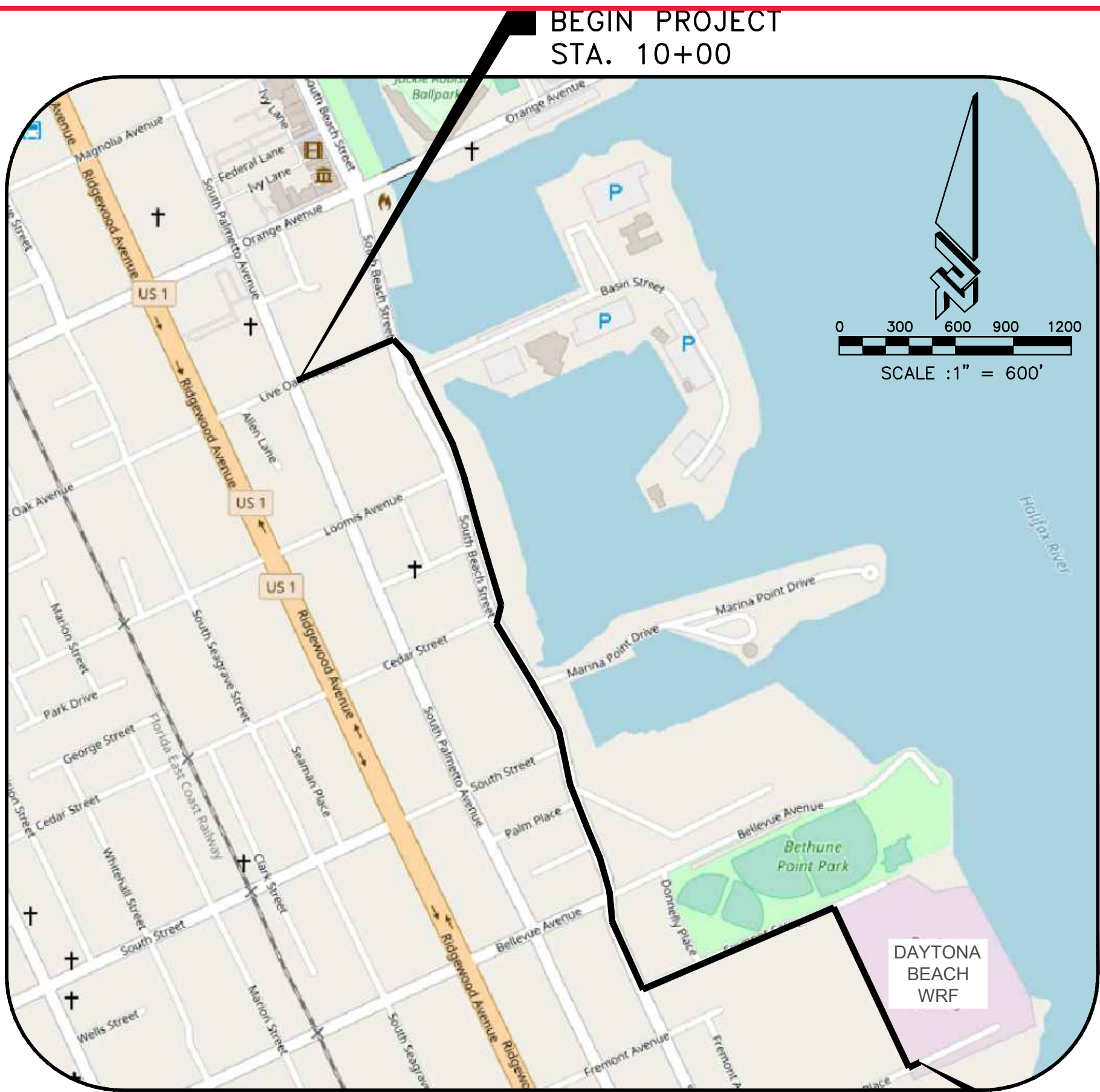
This document is for information only
and subject to change



THE CITY OF
DAYTONA BEACH
UTILITIES ENGINEERING DIVISION

CITY MANAGER:
JAMES CHISHOLM

UTILITIES DIRECTOR:
SHANNON PONITZ



LOCATION MAP

LENGTH OF PROJECT = 6,234

ZEV COHEN & ASSOCIATES, INC.
CIVIL ENGINEERS • LANDSCAPE ARCHITECTS
(FL 4416) (LC 62)
PLANNERS • TRANSPORTATION • ENVIRONMENTAL
WWW.ZEVCOHEN.COM

ORMOND BEACH
300 INTERCHANGE BLVD ORMOND BEACH, FL 32174
(386) 677-2482 FAX (386) 677-2505

COMPONENTS OF CONTRACT PLANS:
UTILITY PLANS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	TYPICAL CROSS SECTIONS
4	SUMMARY OF QUANTITIES
5	OVERALL PLAN
6-18	PLAN AND PROFILE SHEETS
19-20	MAINTENANCE OF TRAFFIC
21-25	CONSTRUCTION DETAILS
1-11	TOPOGRAPHIC SURVEY

CITY BID NO. 19263

PROJECT NO. 6361-3

GOVERNING STANDARDS AND SPECIFICATIONS:

- AMERICAN WATER WORKS ASSOCIATION
- AMERICAN NATIONAL STANDARDS INSTITUTE
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (A.A.S.H.T.O.)
- CITY OF DAYTONA BEACH UTILITIES STANDARD DETAILS DATED 2018.
- FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2018. STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION DATED 2000 AS AMENDED BY CONTRACT DOCUMENTS.
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS CURRENT EDITION (MUTCD)

THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.



UTILITY PLANS
ENGINEER OF RECORD:

HALUK KILIC, P.E.
P.E. NUMBER: 84244

S. BEACH STREET
FORCEMAIN IMPROVEMENTS
COVER SHEET

PROJECT NO: ZC 09062
DESIGNED BY: HK
DRAFTED BY: MLR
CHECKED BY: HK/BB
DRAWING FILE: 09062CV1
XREFS:





















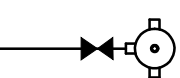













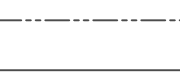


HALUK KILIC, P.E. NO 84244
NOT VALID WITHOUT SEAL

SHEET: C1 OF 25

GENERAL NOTES

1. PRIOR TO BEGINNING GENERAL UTILITIES AND UTILITIES CONSTRUCTION THE CONTRACTOR SHALL REVIEW THE UTILITIES DEPARTMENT STANDARD DETAILS, LATEST EDITION AND TECHNICAL SPECIFICATIONS AND COMPLY WITH THE REQUIREMENTS UNLESS OTHERWISE NOTED IN THE PLANS.
 2. GRADES SHOWN ARE FINISHED GRADES.
 3. ALL STATIONS AND OFFSETS REFER TO CENTERLINE CONSTRUCTION UNLESS OTHERWISE NOTED IN PLANS.
 4. ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED HORIZONTALLY AND VERTICALLY BASED ON THE BEST INFORMATION AVAILABLE AND SHOULD BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT CERTAIN UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION WORK STARTING.
 5. INDIVIDUAL UTILITY OWNERS SHALL BE RESPONSIBLE FOR ANY UTILITIES TO BE ADJUSTED BY OTHERS AS DIRECTED BY THE CITY'S REPRESENTATIVE FOR THE CONSTRUCTION OF THIS PROJECT.
 6. THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATION. (CALL SUNSHINE 1-800-432-4770)
- APPARENT UTILITY OWNERS:
- | | |
|----------------------------|-----------------------|
| BRIGHTHOUSE NETWORKS | (386) 760-9941 x 7216 |
| TECO PEOPLES GAS INC. | (386) 671-2253 |
| CITY OF DAYTONA BEACH | (386) 671-8815 |
| BELL SOUTH | (386) 257-7913 |
| FLORIDA POWER & LIGHT | (386) 322-3417 |
| VOLUSIA COUNTY SIGNAL SHOP | (386) 239-6537 |
| FPL FIBER NET LLC | (305) 522-3249 |
7. ALL CONSTRUCTION WITHIN FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARD INDEXES, THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.
 8. ALL WORK PERFORMED ON ANY UTILITY SYSTEM OR SYSTEM COMPONENT THAT IS OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE PERFORMED BY AN EXPERIENCED UNDERGROUND UTILITY CONTRACTOR LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
 9. THE CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS NECESSARY TO PERFORM ALL RECLAIMED WATER MAIN TAPS. ALL TAPS SHALL BE PERFORMED IN THE PRESENCE OF A CITY INSPECTOR.
 10. ALL PUBLIC LAND CORNERS AND NGVD MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A PUBLIC LAND CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PREVIOUSLY REFERENCED, THE PROJECT ENGINEER SHOULD NOTIFY THE CITY SURVEYOR WITHOUT DELAY BY TELEPHONE. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO REPLACE/RESTORE ANY PROPERTY CORNER DISTURBED BY CONSTRUCTION ACTIVITIES. IF AN NGVD MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS IN DANGER OF BEING DISTURBED THE CONTRACTOR SHALL NOTIFY:
- GEODETIC INFORMATION CENTER
ATTN: MARK MAINTENANCE SECTION
6001 EXECUTIVE BOULEVARD
ROCKVILLE, MARYLAND 20852
TELEPHONE: (301) 443-8319
11. B.M. DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD--88) AND STATE PLANE COORDINATES ARE BASED UPON NAD 83.
 12. ALL DISPLACED SIGNS SHALL BE RELOCATED IN EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITION AT THEIR EXISTING STATION ACCORDING TO F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION) UNLESS OTHERWISE NOTED IN THE PLANS.
 13. SIGNS THAT ARE REMOVED AND ARE TO BE RELOCATED SHALL BE STOCK PILED BY THE CONTRACTOR. ANY EXISTING SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.
 14. ALL EXISTING DRAINAGE STRUCTURES AND UTILITIES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED IN PLANS.
 15. ALL STORM SEWER LINES AND INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT LAST STAGES OF CONSTRUCTION.
 16. ANY DRAINAGE PROBLEMS CAUSED BY CONSTRUCTION, OR EXISTING BEFORE CONSTRUCTION AND NOT ALLEVATED, SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY OF DAYTONA BEACH UTILITIES ENGINEERING DEPARTMENT AT THE TIME OF DISCOVERY.

SYMBOL LEGEND

EXISTING		PROPOSED	
	CURB INLET		TEMPORARY EASEMENT LINE
	CONCRETE MONUMENT		PROPOSED UTILITY
	GUY ANCHOR		REUSE WATER MAIN
	IRON PIPE		WATER MAIN
	IRON ROD		SANITARY SEWER
CABINET	METAL ACCESS CABINET		IT CONDUIT
	MONITORING WELL		SANITARY MANHOLE
	SIGN		GATE/PLUG VALVE
	SANITARY MANHOLE		REUSE WATER METER
	TELEPHONE JUNCTION BOX		REUSE WATER LINE
	TELEPHONE MANHOLE		FIRE HYDRANT AND VALVE
	POWER POLE		PULL BOX
	LIGHT POLE		SANITARY SEWER MAIN
	UTILITY MARKER		STORM WATER MAIN
	WATER VALVE		FIBER OPTIC CABLE
#2	SOIL BORING LOCATION		WATER METER
— O/E —	OVERHEAD ELECTRIC		STORM WATER MANHOLE
— C —	CABLE TV LINE		RIGHT OF WAY
— G —	GAS MAIN		DITCH
— — —	OVERHEAD TELEPHONE		FENCE
— UT —	UNDERGROUND TELEPHONE		FIRE HYDRANT
— FM —	SANITARY SEWER FORCE MAIN		REUSE WATER MAIN
— W —	WATER MAIN		SOIL BORING LOCATION

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS THE REQUIREMENTS OF ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND E.P.A. (NPDES). CONTRACTOR SHALL ESTABLISH BEST MANAGEMENT PRACTICES FOR EROSION AND EROSION CONTROL METHODS PRIOR TO COMMENCING ANY SITE CLEARING OR DEMOLITION AND SHALL MAINTAIN THOSE BARRIERS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
18. ALL DELINEATED WETLAND AREAS SHALL BE STAKED AND FENCED WITH TYPE III SILT FENCING PRIOR TO CONSTRUCTION. FENCING SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETED. LIMITS OF SILT FENCE SHOWN ON PLANS ARE APPROXIMATE AND ARE TO BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
19. THE EROSION, SEDIMENT, AND TURBIDITY CONTROL MEASURES DELINEATED HEREON ARE THE MINIMUM REQUIRED. ADDITIONAL CONTROLS MAY BE NEEDED, DEPENDING UPON THE ACTUAL SITE CONDITIONS. JURISDICTIONAL AGENCY PERMIT REQUIREMENTS AND CONSTRUCTION OPERATIONS. STAKED SILT FENCE SHALL BE UTILIZED TO CONTROL EROSION AND RELEASE OF SUSPENDED SOLIDS AND SEDIMENT TRACKING CONTROL DEVICES SHALL BE USED TO PREVENT THE OFFSITE TRANSPORT OF SEDIMENT BY MOTORIZED VEHICLES. IF CONTROL MEASURES DO NOT PROVE SATISFACTORY, WORK SHALL CEASE UNTIL NEW MEASURES ARE ADOPTED WITH SATISFACTORY RESULTS, AS PER STANDARD INDEX NO. 102.
20. ALL EROSION AND SEDIMENT TRACKING CONTROL DEVICES SHALL BE INSPECTED DAILY AND IMMEDIATELY FOLLOWING A RAINFALL EVENT. ANY DEFICIENCIES FOUND IN THE EROSION CONTROL MEASURES SHALL BE REPAIRED IMMEDIATELY. THE CONTRACTOR SHALL KEEP A LOG BOOK DOCUMENTING THESE DAILY INSPECTIONS, DEFICIENCIES AND REMEDIAL ACTIONS.
21. ALL CURB RAMP CUTS TO BE CONSTRUCTED PER STANDARD INDEX 304, TURNOUTS PER STANDARD INDEX 304 AND CURB TERMINAL TRANSITIONS PER STANDARD INDEX 300, AND BE IN COMPLIANCE WITH CURRENT A.D.A. REQUIREMENTS.
22. NONE OF THE EXISTING LIMEROCK BASE THAT IS REMOVED IS TO BE USED IN THE CONSTRUCTION OF THE NEW LIMEROCK BASE UNLESS OTHERWISE NOTED ON PLANS.
23. FOR STABILIZING AT INTERSECTIONS, TURNOUTS, AND GRADED CONNECTIONS SEE STANDARD INDEX NO. 515. SEE TYPICAL SECTION FOR DEPTH AND LBR 40 TESTING REQUIREMENTS.
24. FOR THE PAVEMENT CONNECTION AT THE BEGINNING AND THE END OF CONSTRUCTION, THE EXISTING PAVEMENT SHALL BE SAW CUT TO AN APPROXIMATE 1" DEPTH BUT JOINT IN ORDER TO MAKE A CLEAN CONNECTION JOINT.
25. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED. EXTREME CAUTION SHALL BE NEEDED DURING CONSTRUCTION OF DRAINAGE OPERATIONS. AT THESE LOCATIONS TO AVOID DAMAGE AND ACHIEVE THE REQUIRED COMPACTION.
26. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH WITH THE SAME TYPE OF MATERIAL, UNLESS OTHERWISE SHOWN IN THE PLANS.
27. ALL UNSUITABLE SOILS AND UNSUITABLE MATERIALS (SUCH AS CLAY, ORGANICS, ROCK, CEMENTED COQUINA, DEBRIS, ETC...) SHALL BE REMOVED, DISPOSED OF AND REPLACED WITH DRY COMPACTED GRANULAR MATERIAL SATISFACTORY TO THE CITY. THE COST OF ALL WORK AND MATERIALS IS TO BE INCLUDED IN THE UNIT PRICE OF THE ASSOCIATED CONSTRUCTION ITEMS UNLESS OTHERWISE SHOWN IN THE PLANS.
28. MAINTENANCE OF TRAFFIC ON COUNTY ROADWAYS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC SAFELY THROUGH THE WORK ZONE AT ALL TIMES. ANY SIDEWALK, LANE OR ROAD CLOSURE REQUIRES REVIEW AND APPROVAL IN ADVANCE AND A SEVEN (7) DAY MINIMUM NOTICE TO VOLusia COUNTY TRAFFIC OPERATIONS (386-239-6535). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REQUIRED COORDINATION.
29. MAINTENANCE OF TRAFFIC WILL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" AND THE "FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS" LATEST EDITIONS.
30. CONTRACTOR TO COORDINATE WITH FP&L REGARDING REMOVAL, RELOCATION OR PROTECTION OF EXISTING FACILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PIPING LEGEND			
FITTING/ APPURTENANCE	UNIVERSAL	FLANGED	MECHANICAL-JOINT
	SINGLE-LINE	DOUBLE-LINE	DOUBLE-LINE
90° BEND			
TEE			
WYE			
REDUCER			
CAP			
PLUG			
BUTTERFLY VALVE			
BALL VALVE			
CHECK VALVE			
GATE VALVE			
PLUG VALVE			
AUTOMATIC CONTROL VALVE			

AAR	AUTOMATIC AIR RELEASE AIR VALVE	HC	HANDICAP	R	RAD
ASPH	ASPHALT	HCAP	HANDICAP PARKING	R	RCB
ASST	ASSEMBLY	HC/RMP	HANDICAP RAMP	R	RC
AVE	AVENUE	HDPE	HIGH-DENSITY POLYETHYLENE	R	RD
AC	AIR CONDITIONING	HDH	HYDRAULIC	R	RED
ARV	AIR RELEASE VALVE	HDWL	HEADWALL	R	REBAR
		HCT	HEIGHT	R	REF
		HNDRL	HAND RAIL	R	REM
		HORIZ	HORIZONTAL	R	REDO
		HVAC	HEATING, VENTILATION, & AIR CONDITIONING	R	RPPB
		HWY	HIGHWAY		
		HZ	HERTZ		
B		I		S	
BCV	BALL CHECK VALVE	ICH	IRRIGATION CONTROL BOX	S	
BFP	BACK FLOW PREVENTER	ICY	IRRIGATION CONTROL VALVE	S	
BEV	BUTTERFLY VALVE	IN	INSIDE DIAMETER	S	
BITUM	BITUMINOUS OR BITUMASTIC	INCHES	(INCHES)	S	
B	BASELINE	INF	INFLEUNT	S	
BLDG	BUILDING	INT	INTERSECTION	S	
BLK	BLOCK	INVT	INVERT	S	
BLVD	BULEVARD	IP	IRON PIPE	S	
BM	BENCH MARK	IPC	INTERNATIONAL PIPE STANDARD	S	
BO	BLOW OFF	IPS	IRON PIPE AND CAP	S	
BOC	BACK OF CURB	IR	IRON ROD	S	
BRG	BEARING	IRC	IRON ROD AND CAP	S	
BV	BALL VALVE			S	
BWF	BARBED WIRE FENCE			S	
C		J		S	
CAV	COMBINATION AIR VALVE	JB	JUNCTION BOX	S	
CATV	CABLE TELEVISION	JO	JOINT	S	
CB	CATCH BASIN			S	
CHKV	CHECK VALVE	L		S	
CIP	CAST IRON PIPE	L OR LT	LEFT	S	
C	CENTER LINE	LB	LATERAL	S	
CLF	CHAIN LINK FENCE	LP	POUNDS	S	
CLP	CONCRETE LIGHT POLE	LF	LINEAR FEET	S	
CLR	CLEAR OR CLEARANCE	LP	LIGHT POLE	S	
CM	CONCRETE MONUMENT	LR	LONG RADIIUS	S	
CMD	CONCRETE MONUMENT W/ DISK	LWL	LIFT STATION	S	
CMP	CORRUGATED METAL PIPE	LWS	LOW WATER LEVEL	S	
CND	CORNDUTT			S	
CNR	CORNER	M		S	
CONC	CONCRETE	M	METER	S	
CONSTR	CONSTRUCTION	M MAINT	MAINTAIN OR MAINTENANCE	S	
CONT	CONTINUOUS	MAS	MASSARY	S	
COORD	COORDINATE	MATL	MATERIAL	S	
CP	CONCRETE PIPE	MATX	MAXIMUM	S	
CPP	CONCRETE POWER POLE	MB	MAIL BOX	S	
CR	CONCENTRIC REDUCER	MB	METERED END SECTION	S	
CSG	CASING	MER	MECHANICAL	S	
CTV	CABLE TELEVISION	MES	MANUFACTURER	S	
CUL	CULVERT	MG	MILLION GALLONS	S	
CULV	CHECK VALVE	MGD	MILLION GALLONS PER DAY	S	
CY	CUBIC YARD(S)	MH	MANHOLE	S	
CYL	CYLINDER	MH	MILES	S	
		M	MINIMUM OR MINUTES	S	
		MISC	MISCELLANEOUS	S	
		MJ	MECHANICAL JOINT	S	
		MN	MONUMENT	S	
		MPH	MILES PER HOUR	S	
		MTG	METAL TREE GRATE	S	
		MW	MONITORING WELL	S	
		MWL	MEAN WATER LEVEL	S	
		MWP	MAXIMUM WORKING PRESSURE	S	
D		N		U	
DAT	DATUM	N	NORTH	U	
DBL	DOUBLE	ND	NAIL AND DISK	U	
DET	DETAIL	NE	NORTHEAST	U	
DI	DUCTILE IRON PIPE	NGVD	NATIONAL GEODETIC VERTICAL DATUM	U	
DIA	DIAMETER	NIC	NOT IN CONTRACT	U	
DIFF	DIFFUSER	N	NUMBER	U	
DIM	DIMENSION	NOM	NOMINAL	U	
DIM	DEPARTMENT OF TRANSPORTATION	NTS	NOT TO SCALE	U	
		NW	NORTHWEST	U	
E				U	
E	EAST			U	
EA	EAST			U	
ECC	ECCENTRIC			U	
EFL	EFFLUENT			U	
ELEV	ELEVATION			U	
ELEC	ELECTRICAL			U	
ELV	ELECTRIC METER			U	
EMB	EMBED			U	
EMER	EMERGENCY			U	
ENGR	ENGINEER			U	
EOP	EDGE OF PAVEMENT			U	
EQUIP	EQUIPMENT			U	
ER	ECCENTRIC REDUCER			U	
ESMT	EASEMENT			U	
EST	ESTIMATED			U	
EXC	EXCAVATED			U	
EXC	EXCAVATION			U	
				U	

P		W	WEST
PB		WJ	WEIDED JOINT
PC	PULL BOX	WL	WATER LINE
PC	POINT OF CURVE	WLP	WOOD LIGHT POST
PCM	PERMANENT CONTROL MONUMENT	WLS	WATER LINE SERVICE
PI	POINT OF INTERSECTION	WM	WATER MAIN OR WATER METER
PK	PK NAK	WPP	WOOD POWER POLE
PL	PROPERTY LINE	WPR	WORKING PRESSURE
PM	PARKING METER	WS	WATER SURFACE
PMB	POINT OF BEGINNING	WSP	WELDED STEEL PIPE
PP	POWER POLE	WT	WEIGHT
PPS	PRESSURE	WTP	WATER TREATMENT PLANT
PRV	PRESSURE REDUCING VALVE	WV	WASTE VALVE
PS	PUMP STATION	W	WASTE WATER
PSF	POUNDS PER SQUARE FOOT	WWF	WELDED WIRE FABRIC
PSI	POUNDS PER SQUARE INCH	WWW	WIRE MESH
PT	POINT OF TANGENCY	WTP	WASTEWATER TREATMENT PLANT
PV	PUG VALVE	W	WITH
PVC	POLYVINYL CHLORIDE	W/O	WITHOUT
PMT OR PAVT	PAVEMENT	X	
PW	POTABLE WATER	XFER	TRANSFER
PWR	POWER		
Q		YD	YARDS
QTY	QUANTITY	YR	YEARS

R	
RAD	RADIUS
RAC	REINFORCED CONCRETE
RC	REINFORCED CONCRETE BOBB
RCPC	REINFORCED CONCRETE PIPE
RD	ROAD
RED	REDUCER
REBAR	REINFORCING STEEL
REF	REFERENCE
RELOC	RELOCATABLE
REQD	REQUIRED
RES	RESTRAINED JOINT
RFBP	REDUCED FLOW
	BACKFLOW PREVENTER
RTWL	RETAINING WALL
S	
SAN	SOUTH
SAN	SANITARY
SB	STOP BAR
SCHED	SCHEDULE
SE	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SECT	SQUARE FOOT OR FEET
SIG	SIGNAL
SLV	SLEEVE
SMH	SQUARE MANHOLE
SO	STUB OUT
SPEC	SPECIFICATION
SQ	SQUARE
SR	STATE ROAD
SS	STAINLESS SEWER
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STK	STAKE
STK	STEEL
STMH	STORM MANHOLE
STRUCT	STRUCTURE
SURF	SURFACE
SV	SANITARY VALVE
SVC	SERVICE
SW	SIDEWALK
SY	SQUARE YARD(S)
SYMB	SYMBOL
SYMM	SYMMETRICAL

T	
TAN	TANGENT
TBM	TEMPORARY BENCH MARK
TB-xx	TEST BORING-xx (e.g. TB-1)
TCE	TEMPORARY CONSTRUCTION
	EASEMENT
TD	TRENCH DRAIN
TEL OR TELE	TELEPHONE
TEMP	TEMPORARY
TF	TOP FACE
THD	THREADED()
THK	THICKNESS()
THJ	TELEPHONE JUNCTION BOX
TMH	TELEPHONE MANHOLE
TOB	TOP OF BANK
TOP	TOP OF PIPE
TOS	TOP OF SLOPE
TSCB	TRAFFIC SIGNAL CONTROL BOX
TSIG	TRAFFIC SIGNAL
TV	TELEVISION
TYP	TYPICAL

U	
UEC	UNDERGROUND ELECTRIC CABLE OR CONDUIT
UG	UNDERGROUND
UGT	UNDERGROUND TELEPHONE
UN	UNION
UTC	UNDERGROUND TELEPHONE CABLE OR CONDUIT
UTP	UTILITY POLE
UTIL	UTILITY



**ZEV COHEN
& ASSOCIATES, INC.**
300 INTERCHANGE BLVD., STE. C
ORLANDO BEACH, FL 32174
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
SCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

[illegible]

**S. BEACH STREET
FORCEMAIN IMPROVEMENTS
GENERAL NOTES**

PROJECT NO: ZC 0906
DESIGNED BY: HK
DRAFTED BY: PEJ
CHECKED BY: HK/BB
DRAWING FILE: 09062CV1 XREFS: 09062BAS XREFS:



BEACH STREET FORCE MAIN
TYPICAL SECTION WITH
WATERMAIN/RECLAIMED
WATERMAIN - ROADWAY

BEACH STREET FORCE MAIN
TYPICAL SECTION – SODDED AREA

BEACH STREET FORCE MAIN
TYPICAL SECTION WITH
WATERMAIN/RECLAIMED
WATERMAIN – SODDED AREA

BEACH STREET FORCE MAIN
TYPICAL SECTION WITH CURB

BEACH STREET FORCE MAIN
TYPICAL SECTION WITH
RECLAIMED WATERMAIN AND CURB

SHEET: C3 OF 25

\\S:\WORK\JANAL - ENGINEERING PLANS\CDOWN\S\S\09062CV1.DWG - PRINTED: 2/28/2019 1:44 PM

SUMMARY OF QUANTITIES			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
1	MOBILIZATION/DEMOBILIZATION	LS	1
2	MAINTENANCE OF TRAFFIC	LS	1
3	SURVEY/LAYOUT, AS-BUILTS/ CERTIFIED RECORD DRAWINGS	LS	1
4	CLEARING AND GRUBBING	AC	2
5	PAVEMENT REMOVAL	SY	7,629
6	REMOVAL & DISPOSAL OF EXISTING UTILITY INFRASTRUCTURE	LF	2,056
7	REMOVAL & DISPOSAL OF EXISTING STORM STRUCTURES	EA	10
8	IRRIGATION REMOVAL AND REPLACEMENT	LS	1
9	STAKED SILT FENCE (TYPE III)	LF	8,200
10	EROSION CONTROL FOR EXISTING INLET/ PIPES	LS	1
11	TREE PROTECTION	LS	1
12	8" GREEN PVC SDR-26, ASTM D-3034 SANITARY MAIN	LF	39
13	6" GREEN PVC SDR-26, ASTM D-3034 SANITARY SERVICE	LF	66
14	36" DIP (CLASS 350) FORCEMAIN	LF	6,092
15	36" DIP (45 BEND)(CLASS 350) FORCEMAIN	EA	18
16	36" DIP (22.5 BEND)(CLASS 350) FORCEMAIN	EA	7
17	36" DIP (11.25 BEND)(CLASS 350) FORCEMAIN	EA	8
18	36" PLUG VALVE - FORCEMAIN	EA	1
19	AIR/ VACUUM COMBINATION RELEASE VALVE (A.R.I. MODEL D-025) OR EQUAL	EA	6
20	PULL BOX (CDR #A14-3060-36)	EA	7
21	PULL BOX (CDR #A14-3060-36)(HEAVY DUTY OR EQUAL)	EA	7
22	4" PVC CONDUIT (PVC SCHEDULE 40)	LF	6,206
23	4" PVC LONG SWEEPING 90 BENDS (SCH 40)	EA	28
24	SERVICE CONNECTIONS, UTILITY COORDINATION, ETC - SANITARY SEWER	EA	6
25	CONNECTION TO EXISTING 24" FORCEMAIN @ LIVE OAK AVE.	LS	1
26	CONNECTION TO EXISTING 36" FORCE MAIN @ SOUTH STREET	LS	1
27	CONNECTION TO EXISTING 42" SANITARY SEWER @ PLANT	LS	1
28	CLASS III REINFORCED CONCRETE PIPE		
	A. 12" RCP	LF	105
	B. 15" RCP	LF	63
	C. 18" RCP	LF	360
	D. 24" RCP	LF	102
	E. 30" RCP	LF	60
	F. 36" RCP	LF	96
29	PVC STORM PIPE (WHITE), SDR-26, ASTM D-3034		
	A. 4" PVC	LF	14
	B. 6" PVC	LF	19
	C. 8" PVC	LF	21
30	TYPE "E" INLET WITH STEEL GRATE	EA	1
31	TYPE "C" INLET WITH STEEL GRATE	EA	6
32	JUNCTION BOX, DRAINAGE, SPECIAL (5' X 5')	EA	1
33	JUNCTION BOX, DRAINAGE (4' DIA., 0'-6" DEEP)	EA	1
34	COUPLING - STORM		
	A. 12" RCP TO VCP	EA	2
	B. 12" RCP TO CMP	EA	1
	C. 15" RCP TO VCP	EA	1
	D. 18" RCP TO CMP	EA	1
	E. 4" PVC TO VCP	EA	1
	F. 6" PVC TO VCP	EA	1
	G. 8" PVC TO CMP	EA	1
35	6" PVC C900 WATER MAIN	LF	147
36	6" GATE VALVE WITH VALVE BOX - WATER	EA	2
37	1" WATER SERVICE - ENDOTRACE	EA	10
38	2" WATER SERVICE - ENDOTRACE	EA	6
39	CONNECTION TO EXISTING - WATER	EA	2
40	6" PVC RECLAIMED WATER MAIN (DR-18)	LF	2,400
41	6" GATE VALVE WITH VALVE BOX - RECLAIMED WATER	EA	6
42	CONNECTION TO EXISTING - RECLAIMED WATER	EA	4
43	2" ASPHALT PAVEMENT	SY	7,810
44	10" LIMEROCK BASE COURSE	SY	7,810
45	12" SUBBASE STABILIZED TO LBR-40 98% ASSHTO	SY	7,810
46	TYPE "F" CONCRETE CURB & GUTTER	LF	398
47	TYPE "D" CONCRETE CURB	LF	73
48	SIDEWALK REMOVAL AND REPLACEMENT (6" DEEP)	SY	36
49	CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT (6" DEEP)	SY	26
50	TRAFFIC STRIPING AND SIGNAGE	LS	1
51	PARKING AREA RESTRIPING (INCLUDES HANDICAP SPACES)	LS	1
52	SODDING	SY	7,810
53	REMOVE & REPLACE PERMANENT FENCE	LF	900
54	TEMPORARY CONSTRUCTION FENCE	LF	900

PAY ITEM NOTES:

1. THE UNIT COST FOR EACH UTILITY PAY ITEM SHALL INCLUDE ALL COORDINATION, MATERIAL, INCIDENTAL ITEMS AND WORK NECESSARY FOR CONSTRUCTION COMPLETION IN COMPLIANCE WITH THE "CITY OF DAYTONA BEACH UTILITIES DEPARTMENT STANDARD DETAILS" (LATEST EDITION) UNLESS OTHERWISE NOTED IN THE PLANS.
2. PAY ITEMS WITH FDOT ITEM NUMBERS NOTED IN THEIR DESCRIPTION ARE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) COMPLIANT PAY ITEMS. PAY ITEMS THAT ARE NOT OTHERWISE NOTED ARE CITY COMPLIANT PAY ITEMS.
3. ALL FOOT PAY ITEMS SHALL BE CONSTRUCTED, MEASURED AND PAID FOR IN ACCORDANCE WITH THEIR GOVERNING SECTION REQUIREMENTS IN THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," YEAR 2000 EDITION UNLESS OTHERWISE NOTED.
4. MAINTENANCE OF TRAFFIC INCLUDES ALL WORK AND ITEMS NECESSARY FOR THE SAFE AND OPERATIONALLY EFFECTIVE MAINTENANCE OF PEDESTRIAN AND VEHICULAR TRAFFIC THAT ARE NOT INCLUDED FOR PAYMENT UNDER SEPARATE ITEMS. MAINTENANCE OF TRAFFIC TO INCLUDE TRAFFIC SIGNAL ACTUATION OR SUBSTITUTE AND REPLACEMENT OF DETECTOR LOOPS.
5. REMOVAL & DISPOSAL OF UTILITY AND STORM INFRASTRUCTURE COST INCLUDES ALL WORK AND MATERIALS NECESSARY TO REMOVE AND DISPOSE OF THE INDICATED FACILITIES AND OTHER INCIDENTAL FACILITIES RENDERED UNUSABLE BY THE WORK IN THESE PLANS.
6. MATERIAL UNDESIRABLE FOR BACK FILL SHALL BE INCLUDED AS PART OF THE REGULAR EXCAVATION.
7. DEWATERING TO BE INCLUDED IN THE COST OF THE PIPE.
8. ALL DIP FORCEMAIN SHALL BE EPOXY LINED.
9. PAY ITEMS #12 & 13: DEPTH OF 10' OR GREATER SHALL BE GREEN C-905 OR DR-26.
10. QUANTITIES ARE APPROXIMATE. CONTRACTOR TO VERIFY.
11. ALTERNATE BEND CONFIGURATIONS TO BE APPROVED BY CITY/ENGINEER AT TIME OF SHOP DRAWING REVIEW.
12. PAY ITEM #3 CLEARING & GRUBBING INCLUDES REMOVAL & DISPOSAL OF ALL IMPROVEMENTS SUCH AS BUT NOT LIMITED TO PAVEMENT, ANY CONCRETE, SIDEWALKS, CURBING, MISC. PIPES, BOX CULVERTS, ETC. THAT ARE NOT OTHERWISE LISTED UNDER THEIR OWN PAY ITEM.
13. PAY ITEM #34 SHALL BE FERNCO COUPLING OR EQUAL.
14. THE 2" A.R.I. D-025 COMBINATION ARV/VACUUM ASSEMBLY UNIT COST SHALL INCLUDE ALL COORDINATION WORK AND MATERIALS NECESSARY FOR CONSTRUCTION OF A COMPLETE AND ADEQUATELY FUNCTIONING VALVE ASSEMBLY TO INCLUDE BUT NOT LIMITED TO THE EXCAVATION, ROCK, VAULT, PIPING, MAIN CONNECTION, ALL FITTINGS, COMPACTION, MISCELLANEOUS GRADING AND SOD. SEE AIR/VACCUM VALVE DETAIL ON SHEET C24 FOR ADDITIONAL INFORMATION. THE LID SHALL READ "AIR RELEASE VALVE."
15. THE 2" PVC SCHEDULE 40 FOR FIBER OPTIC CONDUIT SHALL INCLUDE THE INSTALLATION OF A HEAVY DUTY MULE TAPE TO BE USED BY THE CITY AT A POST-CONSTRUCTION DATE TO PULL IN A FIBER OPTIC CABLE LINE THROUGH THE CONDUIT. THE COST OF FURNISHINGS AND INSTALLING THE MULE TAPE SHALL BE INCLUDED IN THE COST OF THE PVC CONDUIT. THE LID SHALL READ "FIBER OPTIC."
16. PAY ITEMS #30 & 31 - TOP ELEVATIONS OF THE RECONSTRUCTED INLETS SHALL BE GRADED TO DRAIN AND STEEL RETICULINE GRATES SHALL BE USED FOR PEDESTRIAN AND BICYCLE TRAFFIC SAFETY.
17. PAY ITEM #52 - CONTRACTOR TO MATCH EXISTING TYPE OF SOD.
18. 30"x30" TAPPING SLEEVE SHALL BE ROMAC STYLE FTS4254 OR EQUAL.
19. FOR ALL CONCRETE JACKETS (FDOT INDEX NO 280) THAT ARE NEEDED, THE COST WILL INCLUDE ALL WORK AND MATERIALS NECESSARY FOR CONSTRUCTION. THE COMPLETED COST OF THE JACKET IS INCLUDED IN THE COST OF THE PIPE.
20. 1" & 2" WATER SERVICE COST INCLUDES ALL WORK AND MATERIALS FOR CONSTRUCTION OF A COMPLETED AND ADEQUATELY FUNCTIONING WATER SERVICE ASSEMBLY, INCLUDING BUT NOT LIMITED TO THE EXCAVATION, ROCK, PAVEMENT REMOVAL, ENDOTRACE, PIPING, WATER MAIN CONNECTION, AND FITTINGS, PAVEMENT REPLACEMENT, COMPACTION, MISCELLANEOUS GRADING, AND SOD. WATER SERVICES ARE RUN FROM THE TAP AT WATER MAIN TO THE WATER METER. SEE DETAIL ON SHEET C25 FOR ADDITIONAL INFORMATION.

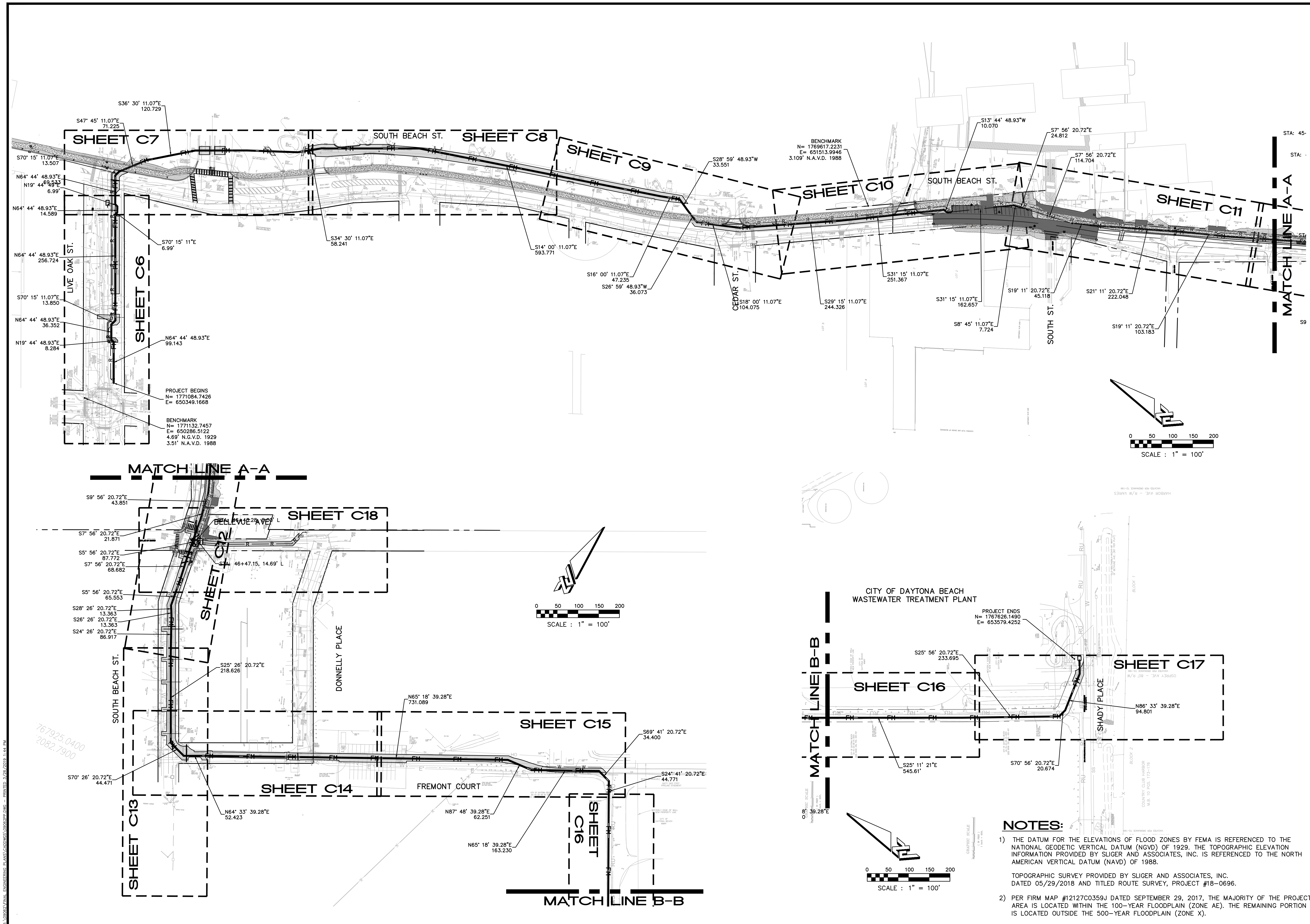
S. BEACH STREET
FORCEMAIN IMPROVEMENTS
SUMMARY OF QUANTITIES

PROJECT NO: ZC 09062
DESIGNED BY: HK
DRAFTED BY: PEJ
CHECKED BY: HK/BB
DRAWING FILE: 09062CV1 XREF'S: 09062BAS XREF'S:

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION



S:\WORK\2018\ENGINEERING PLANS\0000000000000000.DWG - PRINTED: 3/29/2018 11:44 PM



ZEV COHEN & ASSOCIATES, INC.
REGISTERED PROFESSIONAL ENGINEERS
FLORIDA LICENSE NO. 13374
WWW.ZEVCOHEN.COM

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	SUBMITTALS / REVISIONS
1	11-15-18	SUBMITTED TO DEP.
2	3-26-19	SUBMITTED TO CITY OF DAYTONA BEACH

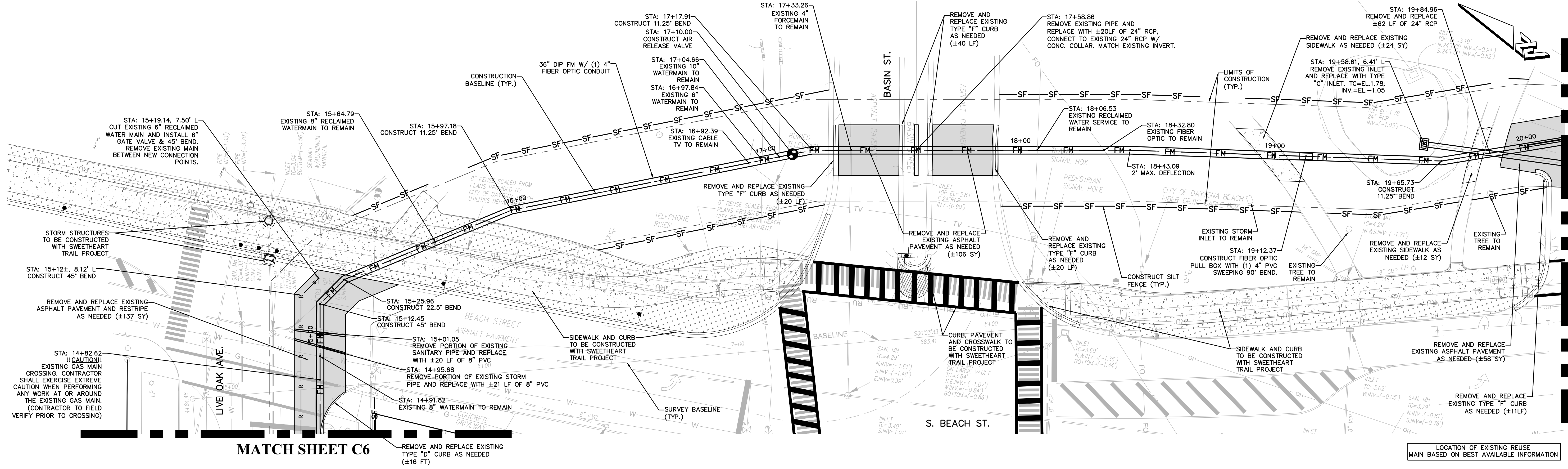
**S. BEACH STREET
FORCE MAIN IMPROVEMENTS
OVERALL PLAN**

CITY OF DAYTONA BEACH
VOLUSIA COUNTY, FLORIDA

PROJECT NO: ZC 09062
DESIGNED BY: HK/MLR
DRAFTED BY: MLR
CHECKED BY: HK/BB
DRAWING FILE: 09062PP
XREFS: 09062BAS
XREFS:

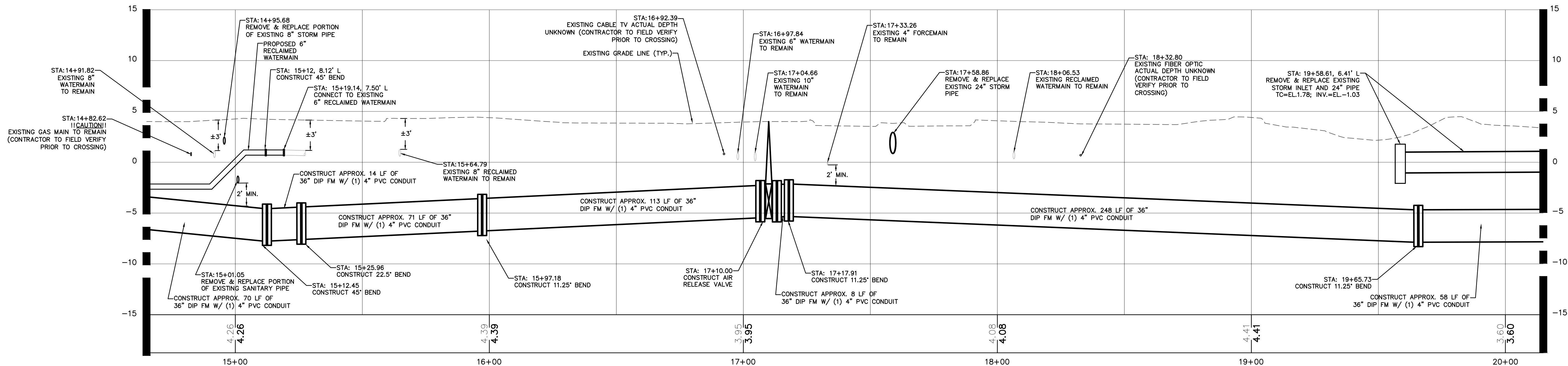
HALUK KELIC, P.E. NO. 84244
NOT VALID WITHOUT SEAL

SHEET: **C5** OF **25**



- CONTRACTOR NOTES**
1. REPLACE EXISTING SOD, ASPHALT AND CONCRETE AS NEEDED, (MATCH EXISTING TYPE AND/OR SECTION)
 2. RESTORE ANY DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES.
 3. CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES PRIOR TO AND DURING CONSTRUCTION ACTIVITIES.
 4. CONTRACTOR TO REMOVE AND REPLACE FENCING AS NECESSARY (MATCH EXISTING TYPE)
 5. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER IF ANY EXISTING UTILITY INFORMATION CONFLICTS WITH ANY INFORMATION PROVIDED ON APPROVED CONSTRUCTION PLANS.
 6. ANY SIDEWALKS OR CROSSWALKS DISTURBED DURING CONSTRUCTION MUST BE BROUGHT UP TO CURRENT A.D.A. STANDARDS.
 7. PLEASE REFER TO CITY OF DAYTONA BEACH DETAIL PIPE SEPARATION DETAIL FOR INFORMATION PERTAINING TO THE AREAS WHERE UTILITY PIPE CONFLICTS OCCUR.
 8. PLEASE NOTE THAT THE EXISTING SANITARY PIPING IS VOP (VITRIFIED CLAY PIPE) AND IS IN GOOD CONDITION WITH NO APPARENT LEAKAGE.
 9. CONTRACTOR TO VIDEO TAPE, TAKE PICTURES, AND/OR DOCUMENT THE CURRENT CONDITIONS OF THE SIDEWALKS, ADJACENT BUILDINGS, AND OTHER STRUCTURES PRIOR TO CONSTRUCTION ACTIVITIES.
 10. REFER TO SHEET C-3 FOR TYPICAL CROSS-SECTIONS.
 11. FIBER OPTIC PULL BOX ON PLAN VIEW IS SHOWN FOR GRAPHICAL REPRESENTATION. CONTRACTOR TO CONSTRUCT THE FIBER OPTIC PULL BOX AND CONDUIT IN THE SAME TRENCH WITH THE PROPOSED 36" FM (PROVIDE A MIN. OF 3FT HORIZONTAL CLEARANCE BETWEEN FORCE MAIN AND FIBER OPTIC PULLBOX).
 12. CONTRACTOR TO INSTALL RECLAIMED MAIN W/ MIN. 3" VERTICAL CLEARANCE.
 13. CONTRACTOR TO FIELD LOCATE EXISTING VALVES FOR SHUTDOWN PURPOSES.
 14. CONTRACTOR TO REPLACE ANY TRAFFIC LOOPS DAMAGED DURING CONSTRUCTION.
 15. CONTRACTOR TO PAVE PORTIONS OF THE PROJECT AS WORK ZONE ADVANCES ALONG ROUTE.
 16. CONTRACTOR TO CONTINUOUS CLEAN SITE AS WORK ZONE ADVANCES.
 17. EXCAVATION MATERIAL TO BE HAULED OFF AND DISPOSED BY CONTRACTOR.
 18. CONTRACTOR TO COORDINATE NEIGHBORHOOD MEETING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PROPOSED LEGEND			
	PROPOSED SHARED USE PATH/SIDEWALK SWEETHEART TRAIL PROJECT		PROPOSED SOD SWEETHEART TRAIL PROJECT
	36" DIP FORCE MAIN		APPROXIMATE LIMITS OF CONSTRUCTION
	PROPOSED CURB (MATCH EXISTING)		WATERMAIN OR SERVICE
	PROPOSED PAVEMENT		RECLAIMED WATERMAIN
EXISTING LEGEND			
	BURIED SANITARY SEWER		MAIL BOX
	BURIED TELEPHONE LINE		SIGN
	BURIED WATER LINE		TREE
	BURIED ELECTRIC LINE		FIRE HYDRANT
	BURIED GAS LINE		WATER METER
	BURIED TELEVISION LINE		GUY ANCHOR
	BURIED FORCE MAIN		UTILITY POLE
	AERIAL UTILITY LINE		IRON ROD WITH CAP
	ELECTRIC BOX		PERMANENT CONTROL POINT
	IRON PIPE		LIGHT POLE
	TELEPHONE BOX		WATER VALVE
	ELECTRIC METER		EXISTING ELEVATION
	TRAFFIC SIGNAL BOX		CABLE TELEVISION BOX
	CLEAN OUT		TRAFFIC LIGHT POLE
	CONCRETE MONUMENT		PERMANENT REFERENCE MONUMENT



CIVIL ENGINEERING
 LANDSCAPE ARCHITECTURE
 ENVIRONMENTAL
 PLANNING
 TRANSPORTATION

NO.	DATE	SUBMITTALS/REVISIONS	BY	MLR
1	12-19-18	SUBMITTED TO DEP.	MLR	
2	3-26-19	SUBMITTED TO CITY OF DAYTONA BEACH	MLR	

**S. BEACH STREET
 FORCEMAIN IMPROVEMENTS
 PLAN AND PROFILE**

CITY OF DAYTONA BEACH
 VOLUSIA COUNTY, FLORIDA

PROJECT NO: ZC 09062
 DESIGNED BY: HK/MLR
 DRAFTED BY: MLR
 CHECKED BY: HK/BB

DRAWING FILE: 09062PP
 XREFS: 09062BAS










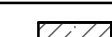
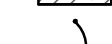
HALUK KELIC, P.E. NO 84244
 NOT VALID WITHOUT SEAL

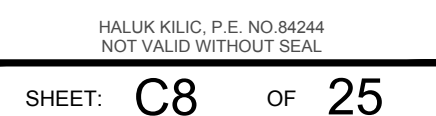
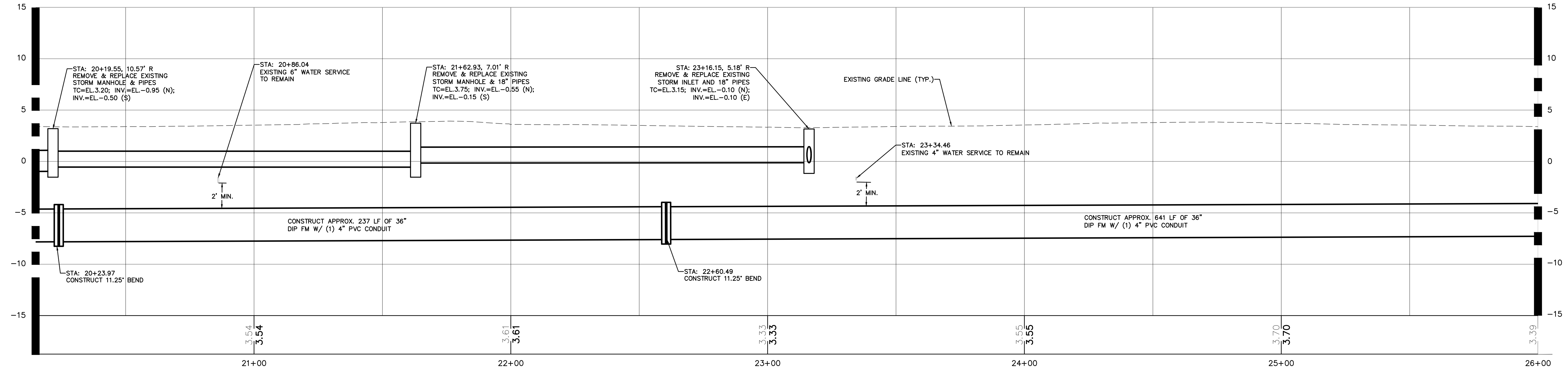
SHEET: C7 OF 25

CITY PROJECT NO. 6361-3

PLAN VIEW: 1"=20'
 PROFILE VIEW: HORIZ: 1"=20'
 VERT: 1"=5'

-
- Plan view of the proposed water main installation. The diagram shows a horizontal alignment with stationing from 20+00 to 26+00. Key features include:
- Existing 6" water service to remain from STA 20+86.04 to STA 21+62.93.
 - Proposed 36" PVC conduit with a 1% dip from STA 20+23.97 to STA 22+60.49.
 - Proposed 36" PVC conduit with a 1% dip from STA 23+34.46 to STA 24+34.46.
 - Existing 4" water service to remain from STA 23+34.46 to STA 24+34.46.
 - Stationing markers and elevations are provided along the alignment.

 PROPOSED SHARED USE PATH/SIDEWALK  SWEETHEART TRAIL PROJECT  36" DIP FORCE MAIN  PROPOSED CURB (MATCH EXISTING)  PROPOSED PAVEMENT		 PROPOSED 500 SWEETHEART TRAIL PROJECT  APPROXIMATE LIMITS OF CONSTRUCTION  WATERMAIN OR SERVICE  RECLAIMED WATERMAIN		 PROPOSED PAVEMENT SWEETHEART TRAIL PROJECT  FINISHED GRADE ELEVATION	
--	--	--	--	--	--



PLAN VIEW: 1"=20'
PROFILE VIEW: HORIZ: 1"=20'
VERT: 1"=5'



CIVIL ENGINEERING
SCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

[illegible]

FLORIDA COUNTY COLLISION

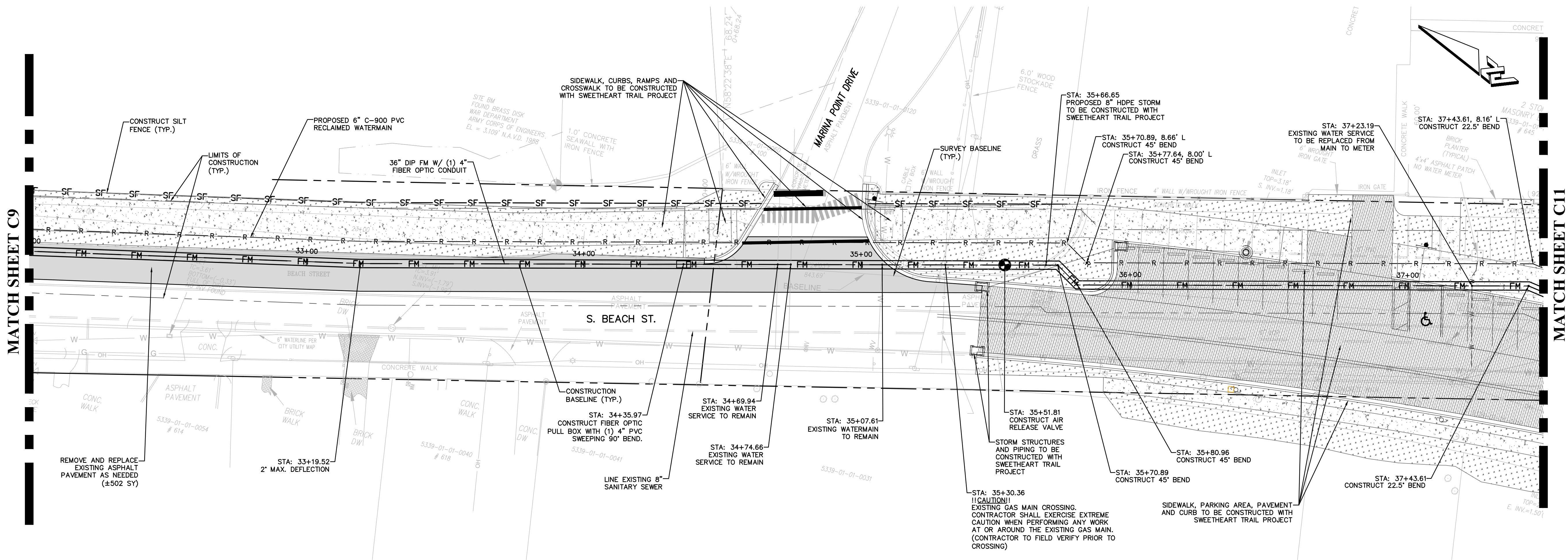
CITY OF DAYTONA BEACH

S. BEACH STREET FORCEMAIN IMPROVEMENTS PLAN AND PROFILE

PROJECT NO: ZC 0906
DESIGNED BY: HK/MLR
DRAFTED BY: MLR
CHECKED BY: HK/BB
DRAWING FILE: 09062PP XREFS: 09062BAS XREFS:

HALUK KILIC, P.E. NO.8424










SHEET: C9 OF 25


































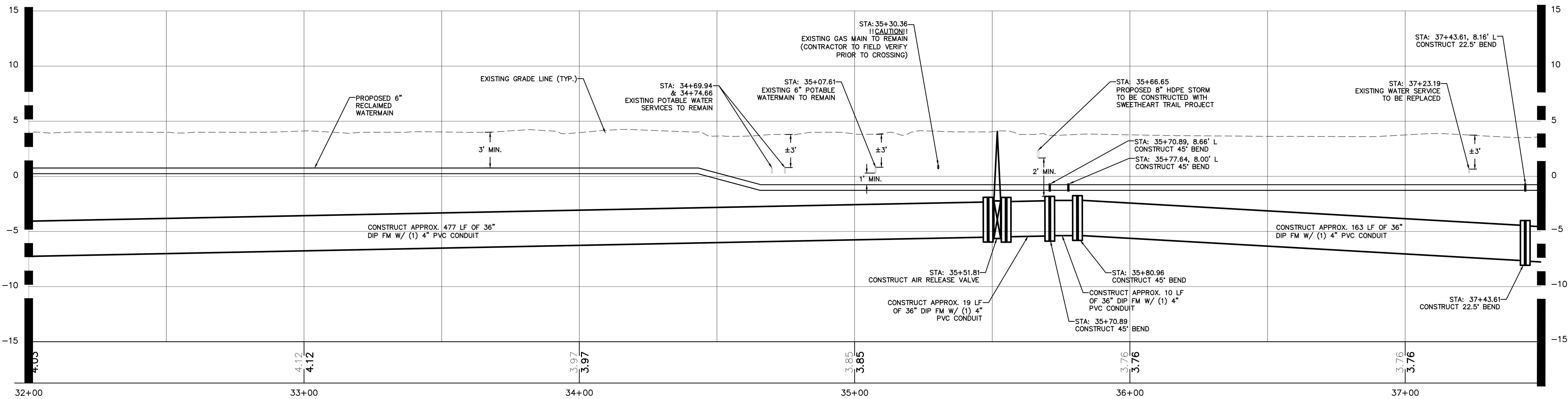
- CONTRACTOR NOTES**
1. REPLACE EXISTING SOD, ASPHALT AND CONCRETE AS NEEDED. (MATCH EXISTING TYPE AND/OR SECTION)
 2. RESTORE ANY DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES.
 3. CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES PRIOR TO AND DURING CONSTRUCTION ACTIVITIES.
 4. CONTRACTOR TO REMOVE AND REPLACE FENCING AS NECESSARY (MATCH EXISTING TYPE)
 5. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER IF ANY EXISTING UTILITY INFORMATION CONFLICTS WITH ANY INFORMATION PROVIDED ON APPROVED CONSTRUCTION PLANS.
 6. ANY SIDEWALKS OR CROSSWALKS DISTURBED DURING CONSTRUCTION MUST BE BROUGHT UP TO CURRENT A.D.A. STANDARDS.
 7. PLEASE REFER TO CITY OF DAYTONA BEACH DETAIL PIPE SEPARATION PERTAINING TO THE AREAS WHERE UTILITY PIPE CONFLICTS OCCUR.
 8. PLEASE NOTE THAT THE EXISTING SANITARY PIPING IS VCP (VITRIFIED CLAY PIPE) AND IS IN GOOD CONDITION WITH NO APPARENT LEAKAGE.
 9. CONTRACTOR TO VIDEO TAPE, TAKE PICTURES, AND/OR DOCUMENT THE CURRENT CONDITIONS OF THE SIDEWALKS, ADJACENT BUILDINGS, AND OTHER STRUCTURES PRIOR TO CONSTRUCTION ACTIVITIES.
 10. REFER TO SHEET C-3 FOR TYPICAL CROSS-SECTIONS.
 11. FIBER OPTIC PULL BOX ON PLAN VIEW IS SHOWN FOR GRAPHICAL REPRESENTATION. CONTRACTOR TO CONSTRUCT THE FIBER OPTIC PULL BOX AND CONDUIT IN THE SAME TRENCH WITH THE PROPOSED 36" FM (PROVIDE A MIN. OF 3FT HORIZONTAL CLEARANCE BETWEEN FORCE MAIN AND FIBER OPTIC PULLBOX).
 12. CONTRACTOR TO INSTALL RECLAIMED MAIN W/ MIN. 3" VERTICAL CLEARANCE.
 13. CONTRACTOR TO FIELD LOCATE EXISTING VALVES FOR SHUTDOWN PURPOSES.
 14. CONTRACTOR TO REPLACE ANY TRAFFIC LOOPS DAMAGED DURING CONSTRUCTION.
 15. CONTRACTOR TO PAVE PORTIONS OF THE PROJECT AS WORK ZONE ADVANCES ALONG ROUTE.
 16. CONTRACTOR TO MAINTAIN CLEAN SITE AS WORK ZONE ADVANCES.
 17. EXCAVATION MATERIAL TO BE HAULED OFF AND DISPOSED BY CONTRACTOR.
 18. CONTRACTOR TO COORDINATE NEIGHBORHOOD MEETING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PLAN & PROFILE

PLAN VIEW: 1"=20'
PROFILE VIEW: HORIZ: 1"=20'
VERT: 1"=5'

PROPOSED LEGEND			
	PROPOSED SOD SWEETHEART TRAIL PROJECT		PROPOSED PAVEMENT SWEETHEART TRAIL PROJECT
	APPROXIMATE LIMITS OF CONSTRUCTION		FINISHED GRADE ELEVATION
	WATERMAIN OR SERVICE RECLAIMED WATERMAIN		
			
PROPOSED SHARED USE PATH/SIDEWALK SWEETHEART TRAIL PROJECT			
	36" DIP FORCE MAIN		
	PROPOSED CURB (MATCH EXISTING)		
	PROPOSED PAVEMENT		

EXISTING LEGEND			
	BURIED SANITARY SEWER		MAIL BOX
	BURIED TELEPHONE LINE		SIGN
	BURIED WATER LINE		TREE
	BURIED ELECTRIC LINE		FIRE HYDRANT
	BURIED GAS LINE		60 YM WATER METER
	BURIED TELEPHONE LINE		30 YM GUY ANCHOR
	BURIED FORCE MAIN		UTILITY POLE
	AERIAL UTILITY LINE		IRON ROD WITH CAP
	ELECTRIC BOX		IRON PIPE
	TELEPHONE BOX		ELECTRIC METER
	TRAFFIC SIGNAL BOX		LEGION SIGNAL BOX
	CEMENT MONUMENT		CABLE TELEVISION BOX
	PERMANENT REFERENCE MONUMENT		PERMANENT CONTROL POINT
			LIGHT POLE
			WATER VALVE
			EXISTING ELEVATION
			CABLE TELEVISION BOX
			TRAFFIC LIGHT POLE



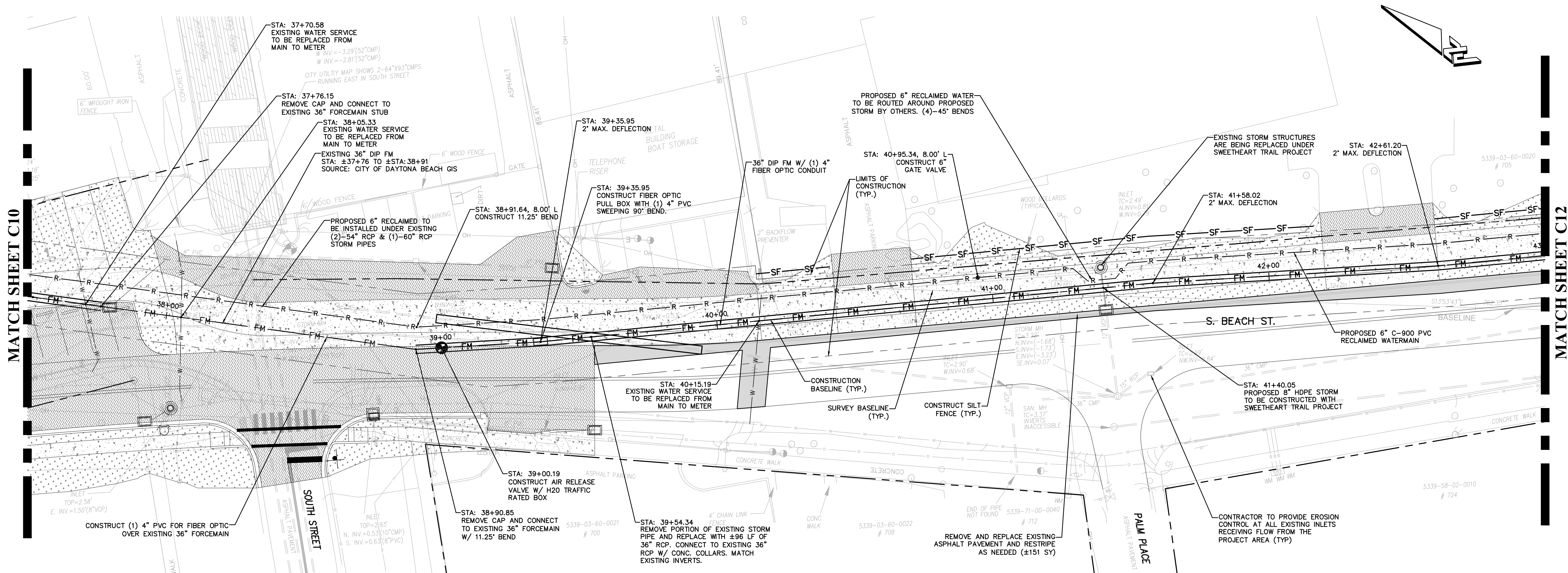
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	SUBMITTALS/REVISIONS
1	11-12-18	SUBMITTED TO DEPT.
2	12-26-19	SUBMITTED TO CITY OF DAYTONA BEACH

**S. BEACH STREET
FORCEMAIN IMPROVEMENTS
PLAN AND PROFILE**

PROJECT NO: ZC 09062
DESIGNED BY: HK/MLR
DRAFTED BY: MLR
CHECKED BY: HK/BB
DRAWING FILE: 09062PP
XREFS: 09062BAS
XREFS:

HALUK KELIC, P.E. NO 84244
NOT VALID WITHOUT SEAL
SHEET: C10 OF 25



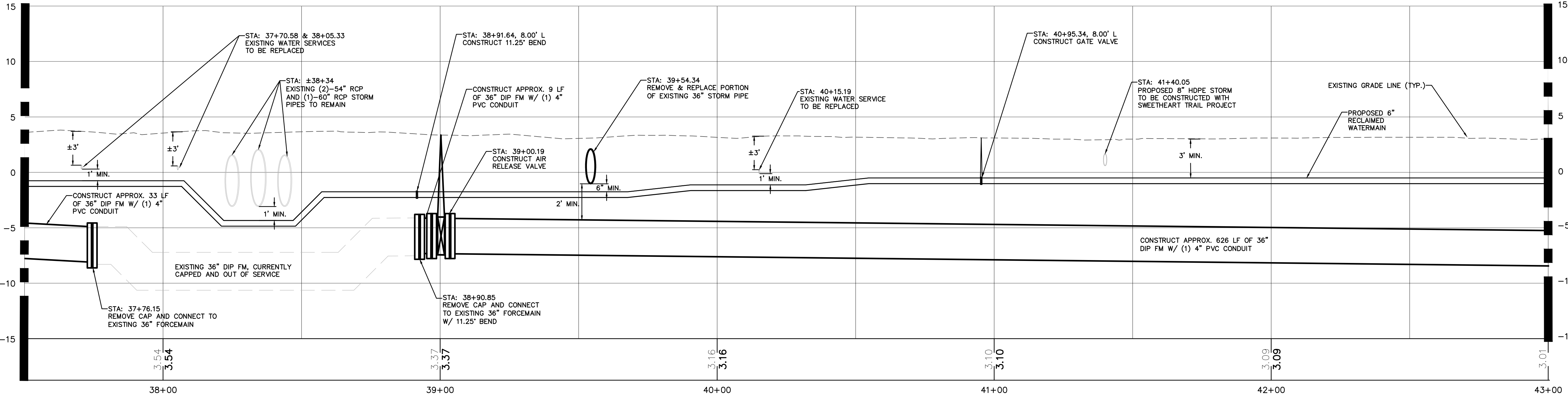
PLAN & PROFILE

PLAN VIEW: 1"=20'
PROFILE VIEW: HORIZ: 1"=20'
VERT: 1"=5'

- CONTRACTOR NOTES
1. REPLACE EXISTING SOD, ASPHALT AND CONCRETE AS NEEDED. (MATCH EXISTING TYPE AND/OR SECTION)
 2. RESTORE ANY DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES.
 3. CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES PRIOR TO AND DURING CONSTRUCTION ACTIVITIES.
 4. CONTRACTOR TO REMOVE AND REPLACE FENCING AS NECESSARY (MATCH EXISTING TYPE)
 5. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER IF ANY EXISTING UTILITY INFORMATION CONFLICTS WITH ANY INFORMATION PROVIDED ON APPROVED CONSTRUCTION PLANS.
 6. ANY SIDEWALKS OR CROSSWALKS DISTURBED DURING CONSTRUCTION MUST BE BROUGHT UP TO CURRENT A.D.A. STANDARDS.
 7. PLEASE REFER TO CITY OF DAYTONA BEACH DETAIL PIPE SEPARATION DETAIL FOR INFORMATION PERTAINING TO THE AREAS WHERE UTILITY PIPE CONFLICTS OCCUR.
 8. PLEASE NOTE THAT THE EXISTING SANITARY PIPING IS VCP (VITRIFIED CLAY PIPE) AND IS IN GOOD CONDITION WITH NO APPARENT LEAKAGE
 9. CONTRACTOR TO VIDEO TAPE, TAKE PICTURES, AND/OR DOCUMENT THE CURRENT CONDITIONS OF THE SIDEWALKS, ADJACENT BUILDINGS, AND OTHER STRUCTURES PRIOR TO CONSTRUCTION ACTIVITIES.
 10. REFER TO SHEET C-3 FOR TYPICAL CROSS-SECTIONS.
 11. FIBER OPTIC PULL BOX ON PLAN VIEW IS SHOWN FOR GRAPHICAL REPRESENTATION. CONTRACTOR TO CONSTRUCT THE FIBER OPTIC PULL BOX AND CONDUIT IN THE SAME TRENCH WITH THE PROPOSED 36" FM (PROVIDE A MIN. OF 3FT HORIZONTAL CLEARANCE BETWEEN FORCE MAIN AND FIBER OPTIC PULLBOX).
 12. CONTRACTOR TO INSTALL RECLAIMED MAIN W/ MIN. 3' VERTICAL CLEARANCE.
 13. CONTRACTOR TO FIELD LOCATE EXISTING VALVES FOR SHUTDOWN PURPOSES.
 14. CONTRACTOR TO REPLACE ANY TRAFFIC LOOPS DAMAGED DURING CONSTRUCTION.
 15. CONTRACTOR TO PAVE PORTIONS OF THE PROJECT AS WORK ZONE ADVANCES ALONG ROUTE.
 16. CONTRACTOR TO CONTINUOUSLY CLEAN SITE AS WORK ZONE ADVANCES.
 17. EXCAVATION MATERIAL TO BE HAULED OFF AND DISPOSED BY CONTRACTOR.
 18. CONTRACTOR TO COORDINATE NEIGHBORHOOD MEETING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PROPOSED LEGEND			
	PROPOSED SHARED USE PATH/SIDEWALK SWEETHEART TRAIL PROJECT		PROPOSED SOD SWEETHEART TRAIL PROJECT
	36" DIP FORCE MAIN		APPROXIMATE LIMITS OF CONSTRUCTION
	PROPOSED CURB (MATCH EXISTING)		WATERMAIN OR SERVICE
	PROPOSED PAVEMENT		RECLAIMED WATERMAIN
			PROPOSED PAVEMENT SWEETHEART TRAIL PROJECT FINISHED GRADE ELEVATION

EXISTING LEGEND								
	BURIED SANITARY SEWER		MAIL BOX		EB	ELECTRIC BOX		PERMANENT CONTROL POINT
	BURIED TELEPHONE LINE		SIGN		IR	IRON PIPE		LIGHT POLE
	BURIED WATER LINE		TREE		TE	TELEPHONE BOX		WATER VALVE
	BURIED ELECTRIC LINE		FIRE HYDRANT		EM	ELECTRIC METER		EXISTING ELEVATION
	BURIED GAS LINE		WM		GA	GUY ANCHOR		CABLE TELEVISION BOX
	BURIED TELEVISION LINE		UTILITY POLE		CO	CLEAN OUT		TRAFFIC LIGHT POLE
	BURIED FORCE MAIN		IRON ROD WITH CAP		CON	CONCRETE MONUMENT		
	AERIAL UTILITY LINE				PERM	PERMANENT REFERENCE MONUMENT		



S. BEACH STREET
FORCE MAIN IMPROVEMENTS
PLAN AND PROFILE

PROJECT NO: ZC 09062
DESIGNED BY: HK/MLR
DRAFTED BY: MLR
CHECKED BY: HK/BB
DRAWING FILE: 09062PP
XREFS: 09062BAS
XREFS:

HALUK KELIC, P.E. NO 84244
NOT VALID WITHOUT SEAL
SHEET: C11 OF 25

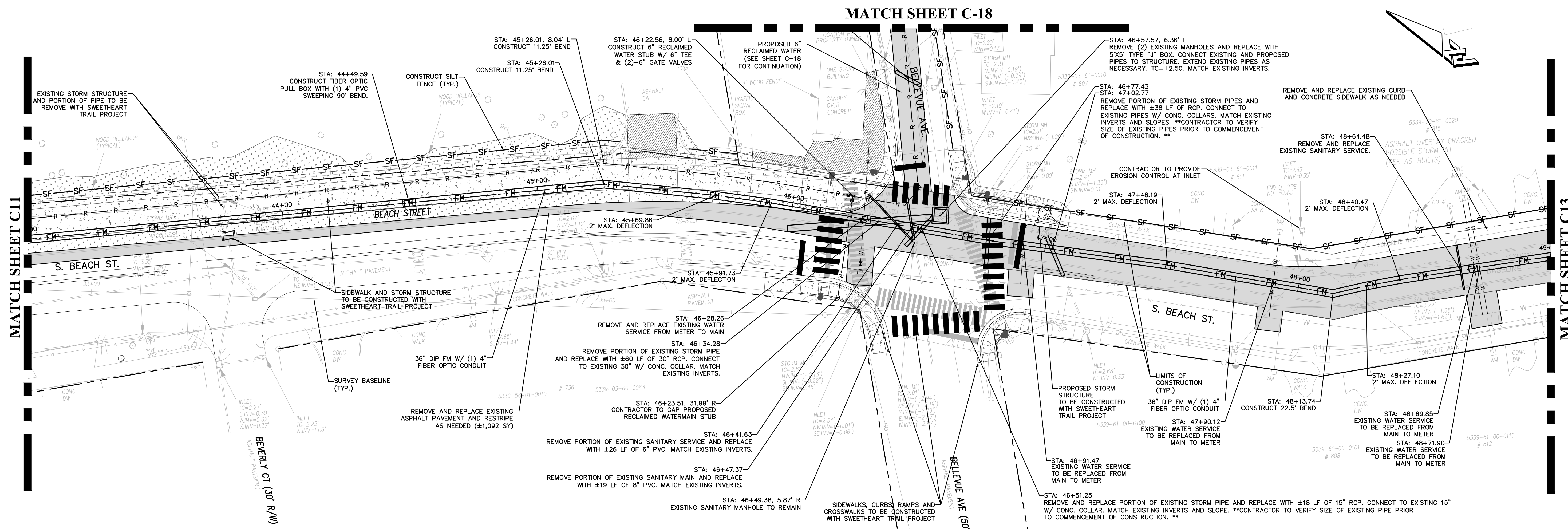


CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	SUBMITTALS / REVISIONS
1	11-12-19	SUBMITTED TO DEPT.
2	12-26-19	SUBMITTED TO CITY OF DAYTONA BEACH

PROJECT NO: ZC 09062
DESIGNED BY: HK/MLR
DRAFTED BY: MLR
CHECKED BY: HK/BB
DRAWING FILE: 09062PP
XREFS: 09062BAS
XREFS:

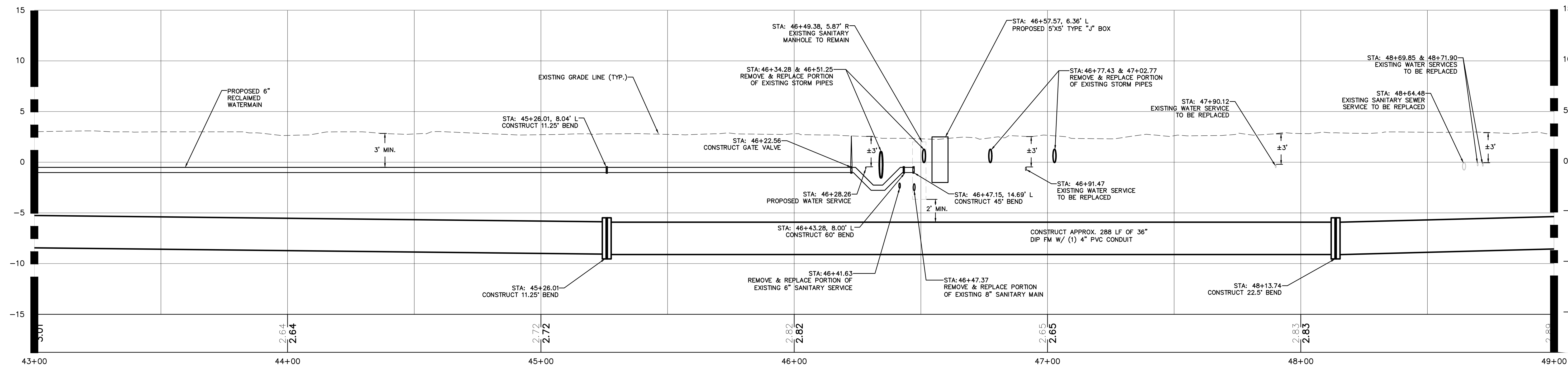
HALUK KELIC, P.E. NO 84244
NOT VALID WITHOUT SEAL
SHEET: C11 OF 25



- CONTRACTOR NOTES**
1. REPLACE EXISTING SOD, ASPHALT AND CONCRETE AS NEEDED. (MATCH EXISTING TYPE AND/OR SECTION)
 2. RESTORE ANY DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES.
 3. CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES PRIOR TO AND DURING CONSTRUCTION ACTIVITIES.
 4. CONTRACTOR TO REMOVE AND REPLACE FENCING AS NECESSARY (MATCH EXISTING TYPE)
 5. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER IF ANY EXISTING UTILITY INFORMATION CONFLICTS WITH ANY INFORMATION PROVIDED ON APPROVED CONSTRUCTION PLANS.
 6. ANY SIDEWALKS OR CROSSWALKS DISTURBED DURING CONSTRUCTION MUST BE BROUGHT UP TO CURRENT A.D.A. STANDARDS.
 7. PLEASE REFER TO CITY OF DAYTONA BEACH DETAIL PIPE SEPARATION DETAIL FOR INFORMATION PERTAINING TO THE AREAS WHERE UTILITY PIPE CONFLICTS OCCUR.
 8. PLEASE NOTE THAT THE EXISTING SANITARY PIPING IS VCP (VITRIFIED CLAY PIPE) AND IS IN GOOD CONDITION WITH NO APPARENT LEAKAGE
 9. CONTRACTOR TO VIDEO TAPE, TAKE PICTURES, AND/OR DOCUMENT THE CURRENT CONDITIONS OF THE SIDEWALKS, ADJACENT BUILDINGS, AND OTHER STRUCTURES PRIOR TO CONSTRUCTION ACTIVITIES.
 10. REFER TO SHEET C-3 FOR TYPICAL CROSS-SECTIONS.
 11. FIBER OPTIC PULL BOX ON PLAN VIEW IS SHOWN FOR GRAPHICAL REPRESENTATION. CONTRACTOR TO CONSTRUCT THE FIBER OPTIC PULL BOX AND CONDUIT IN THE SAME TRENCH WITH THE PROPOSED 36" FM (PROVIDE A MIN. OF 3FT HORIZONTAL CLEARANCE BETWEEN FORCE MAIN AND FIBER OPTIC PULLBOX).
 12. CONTRACTOR TO INSTALL RECLAIMED MAIN W/ MIN. 3' VERTICAL CLEARANCE.
 13. CONTRACTOR TO FIELD LOCATE EXISTING VALVES FOR SHUTDOWN PURPOSES.
 14. CONTRACTOR TO REPLACE ANY TRAFFIC LOOPS DAMAGED DURING CONSTRUCTION.
 15. CONTRACTOR TO PAVE PORTIONS OF THE PROJECT AS WORK ZONE ADVANCES ALONG ROUTE.
 16. CONTRACTOR TO CONTINUOUSLY CLEAN SITE AS WORK ZONE ADVANCES.
 17. EXCAVATION MATERIAL TO BE HAULED OFF AND DISPOSED BY CONTRACTOR.
 18. CONTRACTOR TO COORDINATE NEIGHBORHOOD MEETING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PLAN & PROFILE

PLAN VIEW: 1"=20'
PROFILE VIEW: HORIZ: 1"=20'
VERT: 1"=5'



PROPOSED LEGEND		
	PROPOSED SHARED USE PATH/SIDEWALK TRAIL PROJECT	
	36" DIP FORCE MAIN	
	PROPOSED CURB (MATCH EXISTING)	
	PROPOSED PAVEMENT	
	BURIED SANITARY SEWER	
	BURIED TELEPHONE LINE	
	BURIED WATER LINE	
	BURIED ELECTRIC LINE	
	BURIED GAS LINE	
	BURIED TELEVISION LINE	
	FM BURIED FORCE MAIN	
	AERIAL UTILITY LINE	
EXISTING LEGEND		
	ELECTRIC BOX	
	IRON PIPE	
	TELEPHONE BOX	
	ELECTRIC METER	
	TRAFFIC SIGNAL BOX	
	CLEAN OUT	
	CONCRETE MONUMENT	
	PERMANENT REFERENCE MONUMENT	



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	SUBMITTALS/REVISIONS
1	11-19-18	SUBMITTED TO DEP.
2	12-26-19	SUBMITTED TO CITY OF DAYTONA BEACH

**S. BEACH STREET
FORCEMAIN IMPROVEMENTS
PLAN AND PROFILE**

CITY OF DAYTONA BEACH








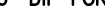




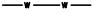


PROJECT NO: ZC 09062
DESIGNED BY: HK/MLR
DRAFTED BY: MLR
CHECKED BY: HK/BB































DRAWING FILE: 09062PP
XREFS: 09062BAS
XREFS:



PLAN VIEW: 1"=20'
 PROFILE VIEW: HORIZ: 1"=20'
 VERT: 1"=5'



 PROPOSED SHARED USE PATH/SIDEWALK  SWEETHEART TRAIL PROJECT		 PROPOSED SODS SWEETHEART  TRAIL PROJECT		 PROPOSED PAVEMENT  SWEETHEART TRAIL PROJECT	
 36" DIP FORCE MAIN  PROPOSED CURB (MATCH EXISTING)  PROPOSED PAVEMENT		 APPROXIMATE LIMITS OF  CONSTRUCTION  WATERMAIN OR SERVICE  RECLAIMED WATERMAIN		 FINISHED GRADE  ELEVATION	

EXISTING LEGEND	
 BURIED SANITARY SEWER  BURIED TELEPHONE LINE  BURIED WATER LINE  BURIED ELECTRIC LINE  BURIED GAS LINE  BURIED TELEVISION LINE  BURIED FORCE MAIN  AERIAL UTILITY LINE	 MAIL BOX  SIGN  TREE  FIRE HYDRANT  WATER METER  GUY ANCHOR  UTILITY POLE  IRON ROD WITH CAP
 ELECTRIC BOX  IRON PIPE  TELEPHONE BOX  ELECTRIC METER  TRAFFIC SIGNAL BOX  CLEAN OUT  CONCRETE MONUMENT  PERMANENT REFERENCE MONUMENT	 PERMANENT CONTROL POINT  LIGHT POLE  WATER VALVE  EXISTING ELEVATION  CABLE TELEVISION BOX  TRAFFIC LIGHT POLE



CIVIL ENGINEERING
DSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

[illegible]

S. BEACH STREET FORCEMAIN IMPROVEMENTS PLAN AND PROFILE

PROJECT NO: ZC 09062

DESIGNED BY: HK/MLR

DRAFTED BY: MLR

CHECKED BY: HK/BB

DRAWING FILE: 09062PP
XREFS: 09062BAS
XREFS:

HALUK KILIC, P.E. NO.84244
NOT VALID WITHOUT SEAL

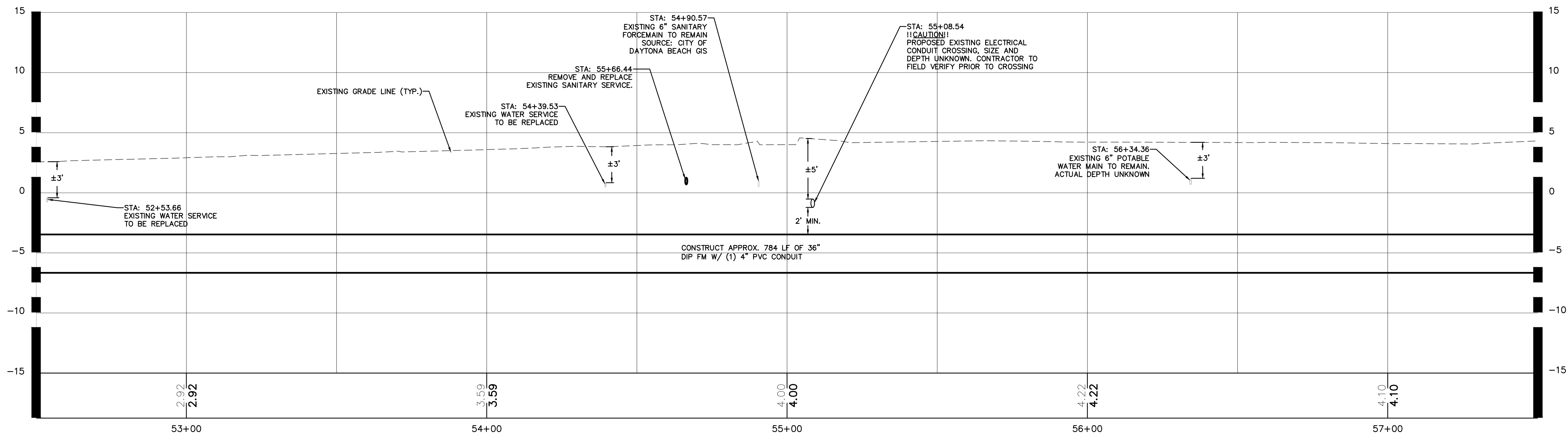
SHEET: **C14** OF **25**

CITY PROJECT NO. 6361-3

CONTRACTOR NOTES

1. REPLACE EXISTING SOD, ASPHALT AND CONCRETE AS NEEDED. (MATCH EXISTING TYPE AND/OR SECTION)
2. RESTORE ANY DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES.
3. CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES PRIOR TO AND DURING CONSTRUCTION ACTIVITIES.
4. CONTRACTOR TO REMOVE AND REPLACE FENCING AS NECESSARY (MATCH EXISTING TYPE)
5. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER IF ANY EXISTING UTILITY INFORMATION CONFLICTS WITH ANY INFORMATION PROVIDED ON APPROVED CONSTRUCTION PLANS.
6. CONTRACTOR TO MAINTAIN ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL CONSTRUCTION MUST ADJUST TO CURRENT A.D.A. STANDARDS.
7. PLEASE REFER TO CITY OF DAYTONA BEACH DETAIL PIPE SEPARATION DETAIL FOR INFORMATION PERTAINING TO THE AREAS WHERE UTILITY PIPE CONFLICTS OCCUR.
8. PLEASE NOTE THAT THE EXISTING SANITARY PIPING IS VCP (VITRIFIED CLAY PIPE) AND IS IN GOOD CONDITION WITH NO APPARENT LEAKAGE
9. CONTRACTOR TO VIDEO TAP, TAKE PICTURES, AND/OR DOCUMENT THE CURRENT CONDITIONS OF THE SIDEWALKS, ADJACENT BUILDINGS, AND OTHER STRUCTURES PRIOR TO CONSTRUCTION ACTIVITIES.
10. REFER TO SHEET C-3 FOR TYPICAL CROSS-SECTIONS.
11. FIBER OPTIC PULL BOX ON PLAN VIEW IS SHOWN FOR GRAPHICAL REPRESENTATION. CONTRACTOR TO CONSTRUCT THE FIBER OPTIC PULL BOX AND CONDUIT IN THE SAME TRENCH WITH THE PROPOSED 36" FM (PROVIDE A MIN. OF 3FT HORIZONTAL CLEARANCE BETWEEN FORCE MAIN AND FIBER OPTIC PULLBOX).
12. CONTRACTOR TO INSTALL RECLAIMED MAIN W/ MIN. 3" VERTICAL CLEARANCE.
13. CONTRACTOR TO FLOOD LOCATE EXISTING VALVES FOR SHUTDOWN PURPOSES.
14. CONTRACTOR TO REPLACE ANY TRAFFIC LOOPS DAMAGED DURING CONSTRUCTION.
15. CONTRACTOR TO PAVE PORTIONS OF THE PROJECT AS WORK ZONE ADVANCES ALONG ROUTE.
16. CONTRACTOR TO CONTINUOUSLY CLEAN SURF AS WORK ZONE ADVANCES.
17. EXCAVATION MATERIAL TO BE HAULED OFF AND DISPOSED BY CONTRACTOR.
18. CONTRACTOR TO COORDINATE NEIGHBORHOOD MEETING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PLAN VIEW: 1"=20'
 PROFILE VIEW: HORIZ: 1"=20'
 VERT: 1"=5'



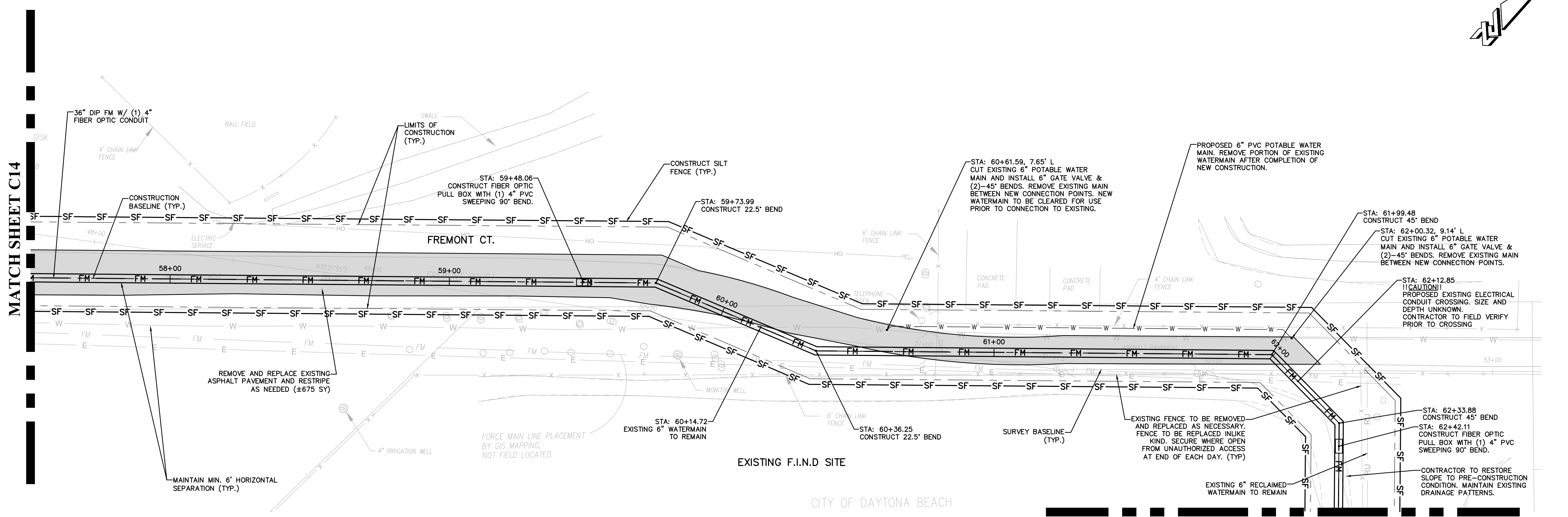
R:\09062\FINAL ENGINEERING PLANS\CADOWGS\09062PP.DWG - PRINTED 3/26/2019 1:46 PM

NO.	DATE	SUBMITTALS / REVISIONS
1	11-19-18	SUBMITTED TO DEPT.
2	12-26-19	SUBMITTED TO CITY OF DAYTONA BEACH

**S. BEACH STREET
FORCEMAIN IMPROVEMENTS
PLAN AND PROFILE**

PROJECT NO: ZC 09062
DESIGNED BY: HK/MLR
DRAFTED BY: MLR
CHECKED BY: HK/BB

DRAWING FILE: 09062PP
XREFS: 09062BAS
XREFS:

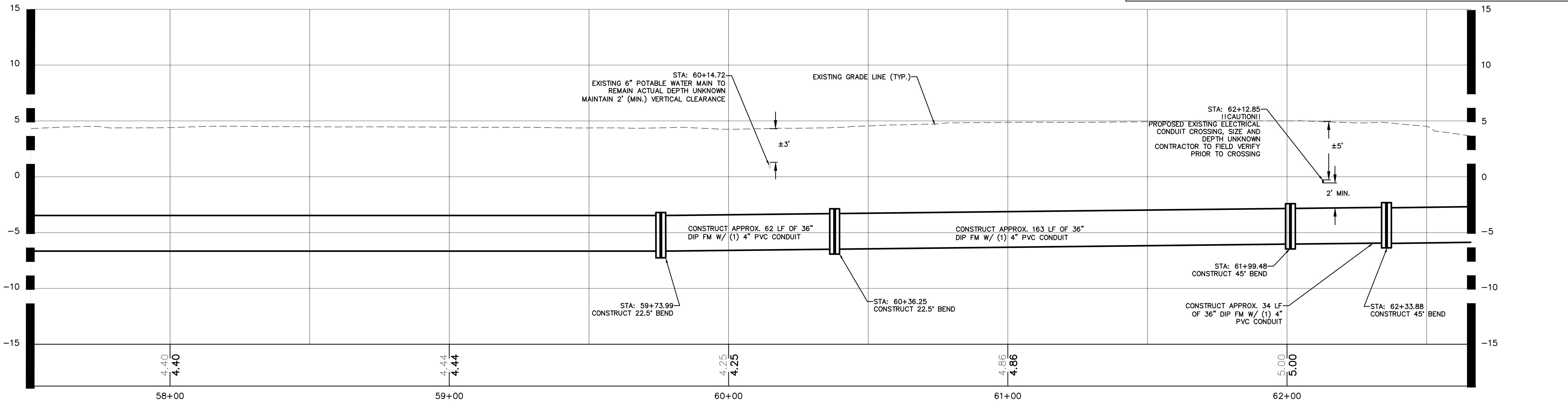


PLAN & PROFILE

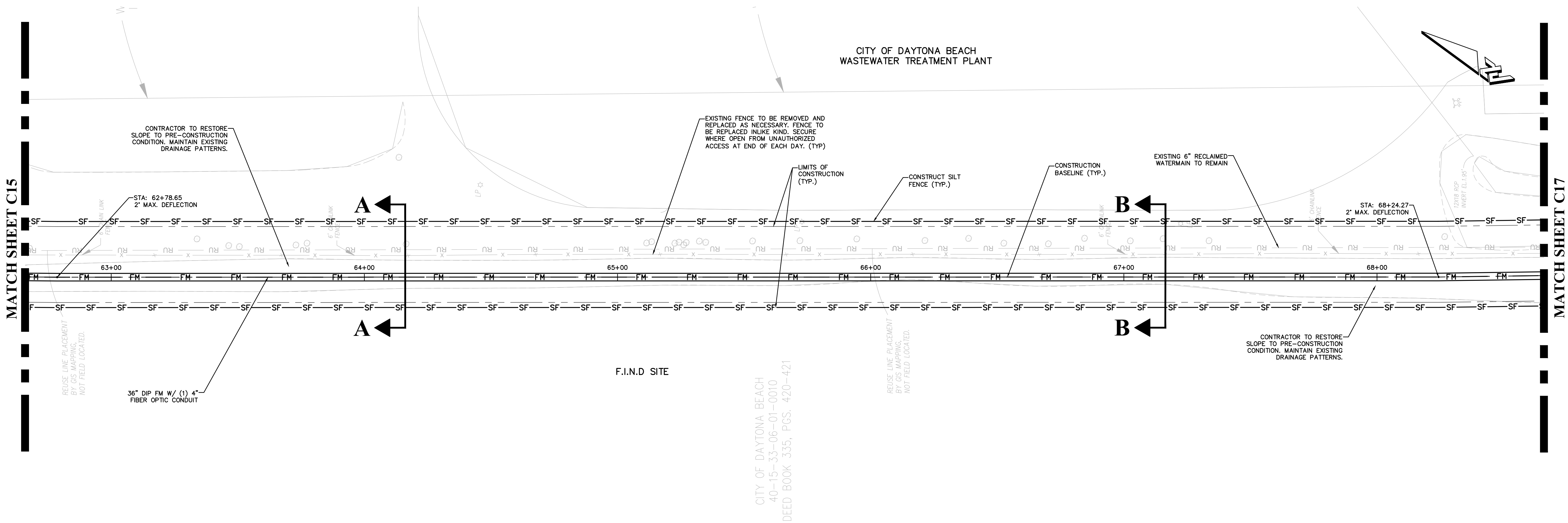
PLAN VIEW: 1"=20'
PROFILE VIEW: HORIZ: 1"=20'
VERT: 1"=5'

- CONTRACTOR NOTES:**
1. REPLACE EXISTING SOD, ASPHALT AND CONCRETE AS NEEDED. (MATCH EXISTING TYPE AND/OR SECTION)
 2. RESTORE ANY DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES.
 3. CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES PRIOR TO AND DURING CONSTRUCTION ACTIVITIES.
 4. CONTRACTOR TO REMOVE AND REPLACE FENCING AS NECESSARY (MATCH EXISTING TYPE)
 5. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER IF ANY EXISTING UTILITY INFORMATION CONFLICTS WITH ANY INFORMATION PROVIDED ON APPROVED CONSTRUCTION PLANS.
 6. ANY SIDEWALKS OR CROSSWALKS DISTURBED DURING CONSTRUCTION MUST BE BROUGHT UP TO CURRENT A.D.A. STANDARDS.
 7. PLEASE REFER TO CITY OF DAYTONA BEACH DETAIL PIPE SEPARATION DETAIL FOR INFORMATION PERTAINING TO THE AREAS WHERE UTILITY PIPE CONFLICTS OCCUR.
 8. PLEASE NOTE THAT THE EXISTING SANITARY PIPING IS VCP (VITRIFIED CLAY PIPE) AND IS IN GOOD CONDITION WITH NO APPARENT LEAKAGE
 9. CONTRACTOR TO VIDEO TAPE, TAKE PICTURES, AND/OR DOCUMENT THE CURRENT CONDITIONS OF THE SIDEWALKS, ADJACENT BUILDINGS, AND OTHER STRUCTURES PRIOR TO CONSTRUCTION ACTIVITIES.
 10. REFER TO SHEET C-3 FOR TYPICAL CROSS-SECTIONS.
 11. FIBER OPTIC PULL BOX ON PLAN VIEW IS SHOWN FOR GRAPHICAL REPRESENTATION. CONTRACTOR TO CONSTRUCT THE FIBER OPTIC PULL BOX AND CONDUIT IN THE SAME TRENCH WITH THE PROPOSED 36" FM (PROVIDE A MIN. OF 3FT HORIZONTAL CLEARANCE BETWEEN FORCE MAIN AND FIBER OPTIC PULLBOX).
 12. CONTRACTOR TO INSTALL RECLAIMED MAIN W/ MIN. 3" VERTICAL CLEARANCE.
 13. CONTRACTOR TO FIELD LOCATE EXISTING VALVES FOR SHUTDOWN PURPOSES.
 14. CONTRACTOR TO REPLACE ANY TRAFFIC LOOPS DAMAGED DURING CONSTRUCTION.
 15. CONTRACTOR TO PAVE PORTIONS OF THE PROJECT AS WORK ZONE ADVANCES ALONG ROUTE.
 16. CONTRACTOR TO CONTINUOUS CLEAN SITE AS WORK ZONE ADVANCES.
 17. EXCAVATION MATERIAL TO BE HAULED OFF AND DISPOSED BY CONTRACTOR.
 18. CONTRACTOR TO COORDINATE NEIGHBORHOOD MEETING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PROPOSED LEGEND			
	PROPOSED SHARED USE PATH/SIDEWALK SWEETHEART TRAIL PROJECT		PROPOSED SOD SWEETHEART TRAIL PROJECT
	36" DIP FORCE MAIN		APPROXIMATE LIMITS OF CONSTRUCTION
	PROPOSED CURB (MATCH EXISTING)		WATERMAIN OR SERVICE
	PROPOSED PAVEMENT		RECLAIMED WATERMAIN
			FINISHED GRADE ELEVATION
EXISTING LEGEND			
	BURIED SANITARY SEWER		MAIL BOX
	BURIED TELEPHONE LINE		SIGN
	BURIED WATER LINE		TREE
	BURIED ELECTRIC LINE		FIRE HYDRANT
	BURIED GAS LINE		WATER METER
	BURIED TELEVISION LINE		GUY ANCHOR
	BURIED FORCE MAIN		UTILITY POLE
	AERIAL UTILITY LINE		IRON ROD WITH CAP
			ELECTRIC BOX
			IRON PIPE
			TELEPHONE BOX
			ELECTRIC METER
			TRAFFIC SIGNAL BOX
			CLEAN OUT
			CONCRETE MONUMENT
			PERMANENT REFERENCE MONUMENT
			PERMANENT CONTROL POINT
			LIGHT POLE
			WATER VALVE
			EXISTING ELEVATION
			CABLE TELEVISION BOX
			TRAFFIC LIGHT POLE

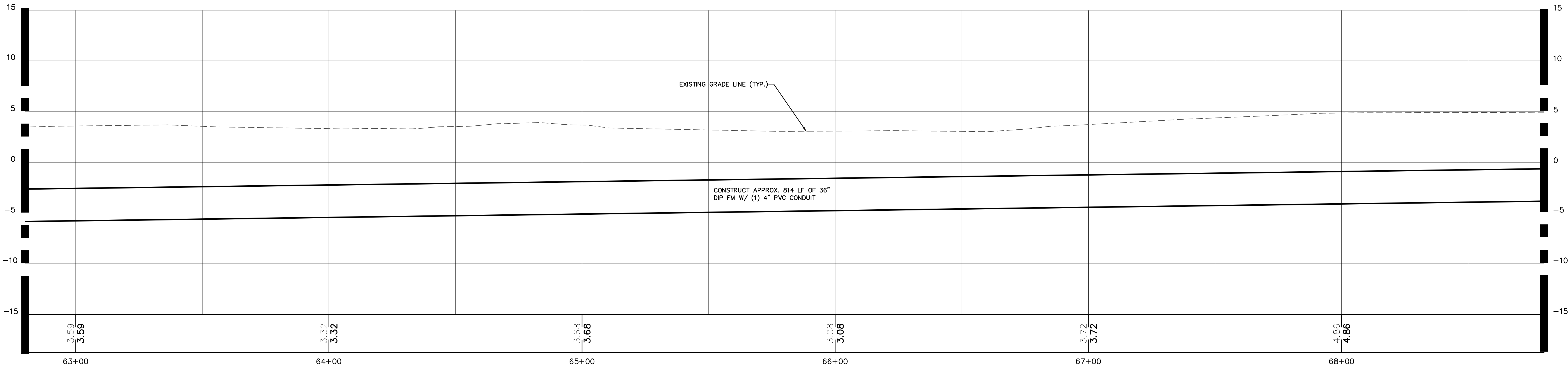


\\S:\0000\JANUARY ENGINEERING PLANS\000053\09002PP.DWG - PRINTED: 3/29/2019 11:48 PM



- CONTRACTOR NOTES
1. REPLACE EXISTING SOD, ASPHALT AND CONCRETE AS NEEDED. (MATCH EXISTING TYPE AND/OR SECTION)
 2. RESTORE ANY DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES.
 3. CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES PRIOR TO AND DURING CONSTRUCTION ACTIVITIES.
 4. CONTRACTOR TO REMOVE AND REPLACE FENCING AS NECESSARY (MATCH EXISTING TYPE)
 5. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER IF ANY EXISTING UTILITY INFORMATION CONFLICTS WITH ANY INFORMATION PROVIDED ON APPROVED CONSTRUCTION PLANS.
 6. ANY SIDEWALKS OR CROSSWALKS DISTURBED DURING CONSTRUCTION MUST BE BROUGHT UP TO CURRENT A.D.A. STANDARDS.
 7. PLEASE REFER TO CITY OF DAYTONA BEACH DETAIL PIPE SEPARATION DETAIL FOR INFORMATION PERTAINING TO THE AREAS WHERE UTILITY PIPE CONFLICTS OCCUR.
 8. PLEASE NOTE THAT THE EXISTING SANITARY PIPING IS VCP (VITRIFIED CLAY PIPE) AND IS IN GOOD CONDITION WITH NO APPARENT LEAKAGE.
 9. CONTRACTOR TO VIDEO TAPE, TAKE PICTURES, AND/OR DOCUMENT THE CURRENT CONDITIONS OF THE SIDEWALKS, ADJACENT BUILDINGS, AND OTHER STRUCTURES PRIOR TO CONSTRUCTION ACTIVITIES.
 10. REFER TO SHEET C-3 FOR TYPICAL CROSS-SECTIONS.
 11. FIBER OPTIC PULL BOX ON PLAN VIEW IS SHOWN FOR GRAPHICAL REPRESENTATION. CONTRACTOR TO CONSTRUCT THE FIBER OPTIC PULL BOX AND CONDUIT IN THE SAME TRENCH WITH THE PROPOSED 36" FM (PROVIDE A MIN. OF 3FT HORIZONTAL CLEARANCE BETWEEN FORCE MAIN AND FIBER OPTIC PULLBOX).
 12. CONTRACTOR TO INSTALL RECLAIMED MAIN W/ MIN. 3' VERTICAL CLEARANCE.
 13. CONTRACTOR TO FIELD LOCATE EXISTING VALVES FOR SHUTDOWN PURPOSES.
 14. CONTRACTOR TO REPLACE ANY TRAFFIC LOOPS DAMAGED DURING CONSTRUCTION.
 15. CONTRACTOR TO PAVE PORTIONS OF THE PROJECT AS WORK ZONE ADVANCES ALONG ROUTE.
 16. CONTRACTOR TO CONTINUOUS CLEAN SITE AS WORK ZONE ADVANCES.
 17. EXCAVATION MATERIAL TO BE HAULED OFF AND DISPOSED BY CONTRACTOR.
 18. CONTRACTOR TO COORDINATE NEIGHBORHOOD MEETING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

PROPOSED LEGEND			
	PROPOSED SHARED USE PATH/SIDEWALK SWEETHEART TRAIL PROJECT		PROPOSED SOD SWEETHEART TRAIL PROJECT
	36" DIP FORCE MAIN		APPROXIMATE LIMITS OF CONSTRUCTION
	PROPOSED CURB (MATCH EXISTING)		WATERMAIN OR SERVICE
	PROPOSED PAVEMENT		RECLAIMED WATERMAIN
	BURIED SANITARY SEWER		MAIL BOX
	BURIED TELEPHONE LINE		SIGN
	BURIED WATER LINE		TREE
	BURIED ELECTRIC LINE		FIRE HYDRANT
	BURIED GAS LINE		WATER METER
	BURIED TELEVISION LINE		GUY ANCHOR
	BURIED FORCE MAIN		UTILITY POLE
	AERIAL UTILITY LINE		IRON ROD WITH CAP
	ELECTRIC BOX		IRON PIPE
	TELEPHONE BOX		ELECTRIC METER
	TRAFFIC SIGNAL BOX		CLEAN OUT
	CONCRETE MONUMENT		PERMANENT REFERENCE MONUMENT
	PERMANENT CONTROL POINT		LIGHT POLE
	WATER VALVE		EXISTING ELEVATION
	CABLE TELEVISION BOX		TRAFFIC LIGHT POLE



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	SUBMITTALS / REVISIONS	BY
1	12-19-18	SUBMITTED TO DD&P	MLR
2	3-26-19	SUBMITTED TO CITY OF DAYTONA BEACH	MLR

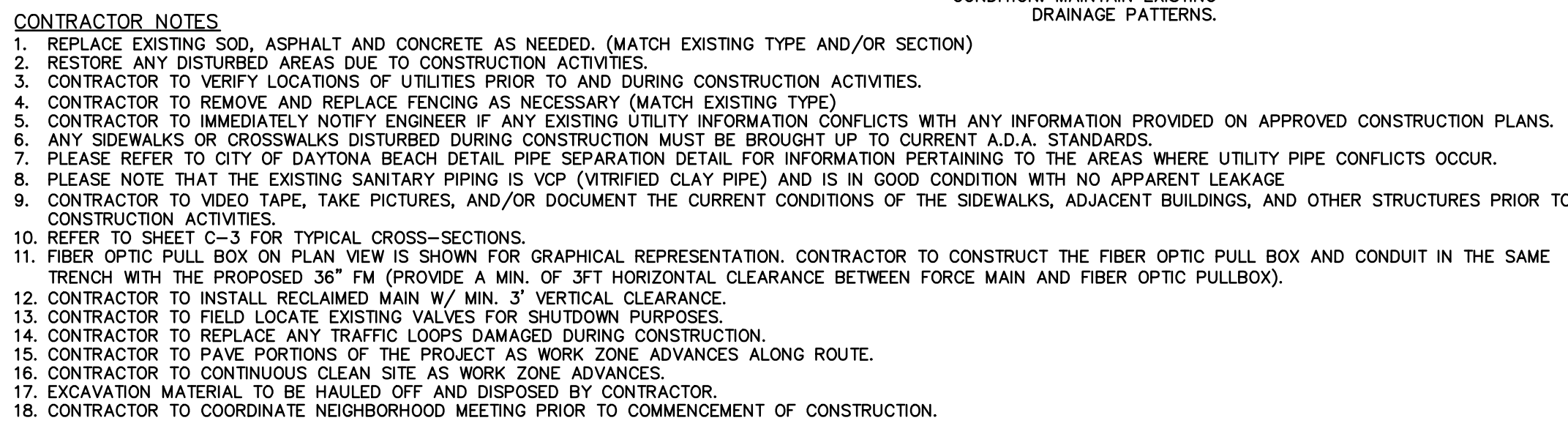
S. BEACH STREET
FORCEMAIN IMPROVEMENTS
PLAN AND PROFILE

PROJECT NO: ZC 09062
DESIGNED BY: HKMLR
DRAFTED BY: MLR
CHECKED BY: HK/BB
DRAWING FILE: 09062PP
XREFS: 09062BAS

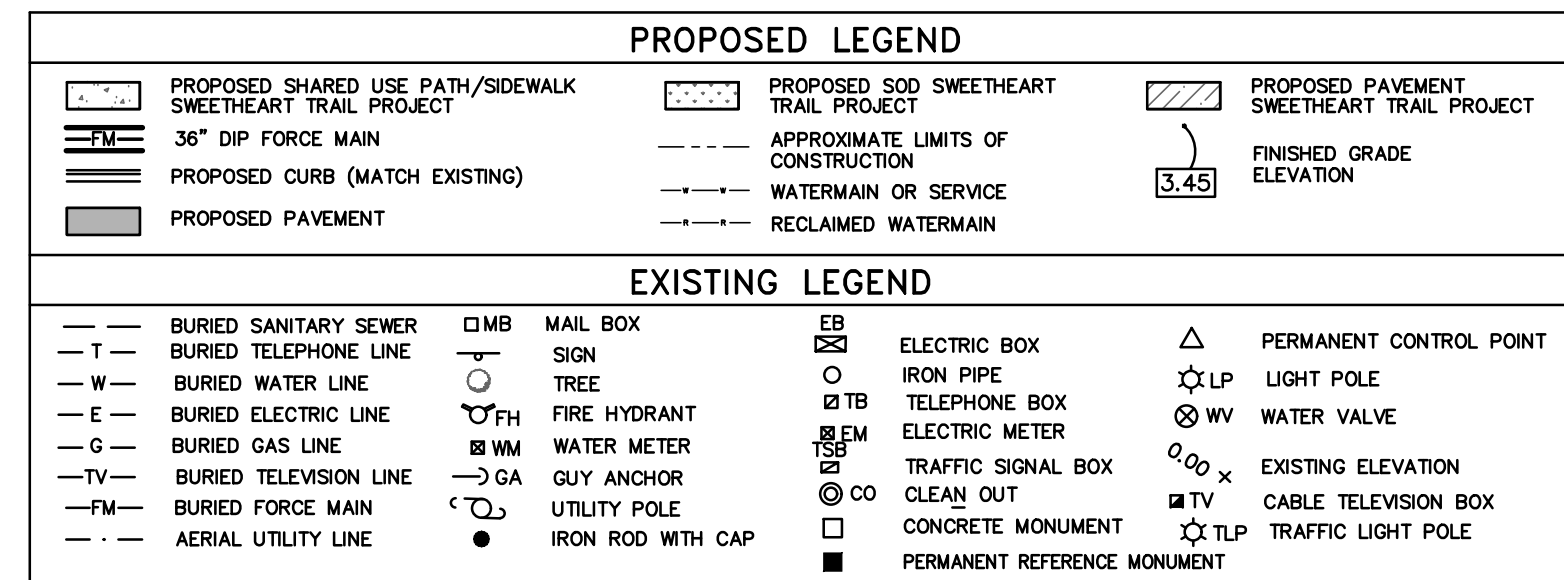
HAUK KELIC, P.E. NO 84244
NOT VALID WITHOUT SEAL

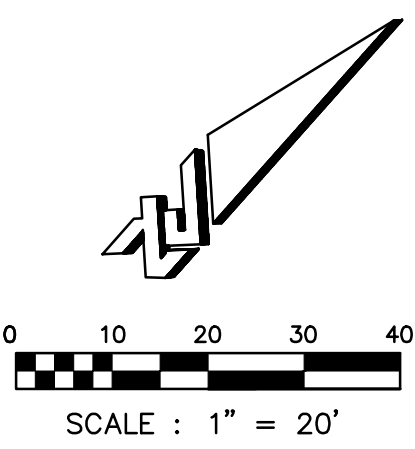
SHEET: C16 OF 25

CITY PROJECT NO. 6361-3



PLAN VIEW: 1"=20'
PROFILE VIEW: HORIZ: 1"=20'
VERT: 1"=5'



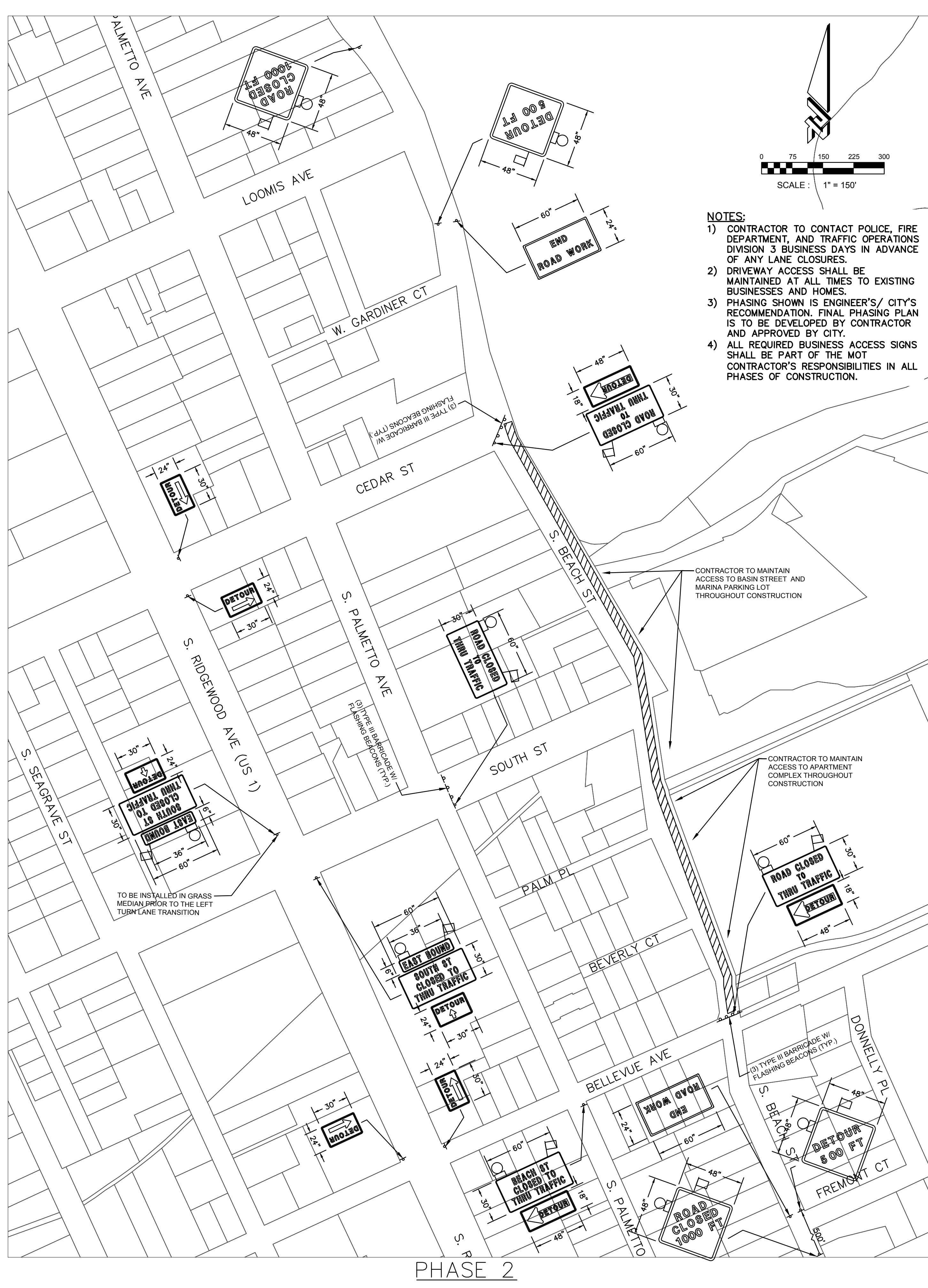
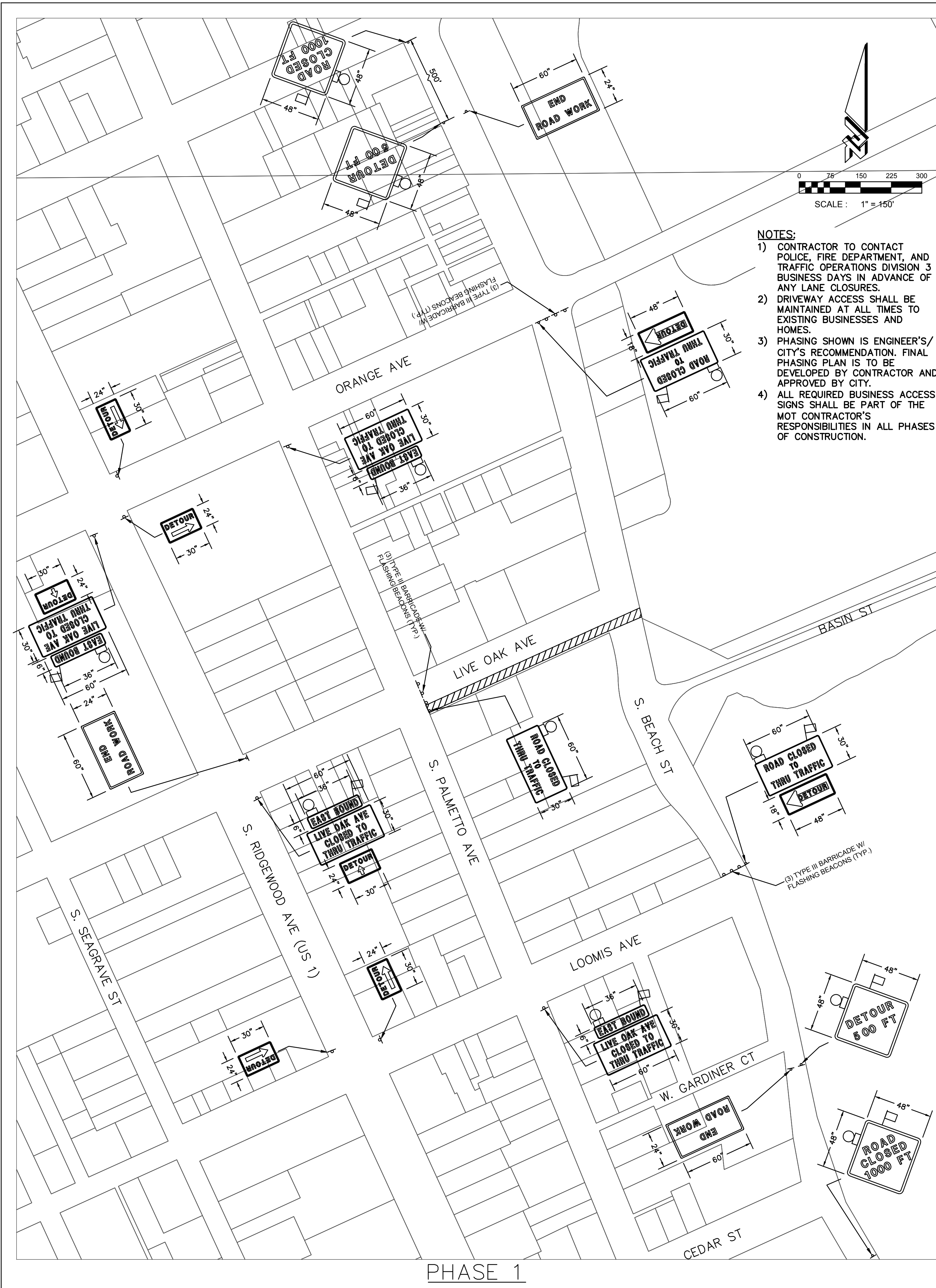


1. REMOVE EXISTING SOIL, ASPHALT AND CONCRETE AS NEEDED. (MATCH EXISTING TYPE AND/OR SECTION)
2. REPLACE ANY DISTURBED AREAS DUE TO CONSTRUCTION ACTIVITIES.
3. CONTRACTOR TO VERIFY LOCATIONS OF UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
4. CONTRACTOR TO REMOVE AND REPAIR FENCING AS NECESSARY (MATCH EXISTING TYPE)
5. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER IF ANY EXISTING UTILITY INFORMATION CONFLICTS WITH ANY INFORMATION PROVIDED ON APPROVED CONSTRUCTION PLANS.
6. CONTRACTOR TO MAINTAIN ALL DISTURBED AREAS DURING CONSTRUCTION MUST BE BROUGHT UP TO CURRENT A.D.A. STANDARDS.
7. PLEASE REFER TO CITY OF DAYTONA BEACH DETAIL PIPE SEPARATION DETAIL FOR INFORMATION PERTAINING TO THE AREAS WHERE UTILITY PIPE CONFLICTS OCCUR.
8. PLEASE NOTE THAT THE EXISTING SANITARY PIPING IS VOP (VITRIFIED CLAY PIPE) AND IS IN GOOD CONDITION WITH NO APPARENT LEAKAGE.
9. CONTRACTOR TO TAKE PICTURES, AND/OR DOCUMENT THE CURRENT CONDITIONS OF THE SIDEWALKS, ADJACENT BUILDINGS, AND OTHER STRUCTURES PRIOR TO CONSTRUCTION ACTIVITIES.
10. REFER TO SHEET C-3 FOR TYPICAL CROSS-SECTIONS.
11. RECLAIMED MATERIAL SHALL BE SHOWN ON THE GRAPHICAL REPRESENTATION. CONTRACTOR TO CONSTRUCT THE FIBER OPTIC PULL BOX AND CONDUIT IN THE SAME TRENCH WITH THE PROPOSED 36" FM (PROVIDE A MIN. OF 3FT HORIZONTAL CLEARANCE BETWEEN FORCE MAIN AND FIBER OPTIC PULLBOX).
12. CONTRACTOR TO INSTALL RECLAIMED MAN V. MIN. 3" VERTICAL CLEARANCE.
13. CONTRACTOR TO FIELD LOCATE EXISTING VALVES FOR SHUTDOWN PURPOSES.
14. CONTRACTOR TO REPLACE ANY TRAFFIC LOOPS DAMAGED DURING CONSTRUCTION.
15. CONTRACTOR TO PAVE PORTIONS OF THE PROJECT AS WORK ZONE ADVANCES ALONG ROUTE.
16. CONTRACTOR TO CONTINUOUSLY CLEAR SITE AS WORK ZONE ADVANCES.
17. EXCAVATION MATERIAL TO BE HAULED OFF AND DISPOSED BY CONTRACTOR.
18. CONTRACTOR TO COORDINATE NEIGHBORHOOD MEETING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**S. BEACH STREET
FORCEMAIN IMPROVEMENTS
PLAN AND PROFILE**

SHEET: C18 OF 25

18. 10/06/24 FINAL ENGINEERING PLANS CADD/STAMP/STAMP - PRINTED: 2/26/2025 11:48 PM



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	SUBMITTALS / REVISIONS
1	12/18/18	SUBMITTED TO DEPT. OF TRANSPORTATION
2	12/18/18	SUBMITTED TO CITY OF DAYTONA BEACH

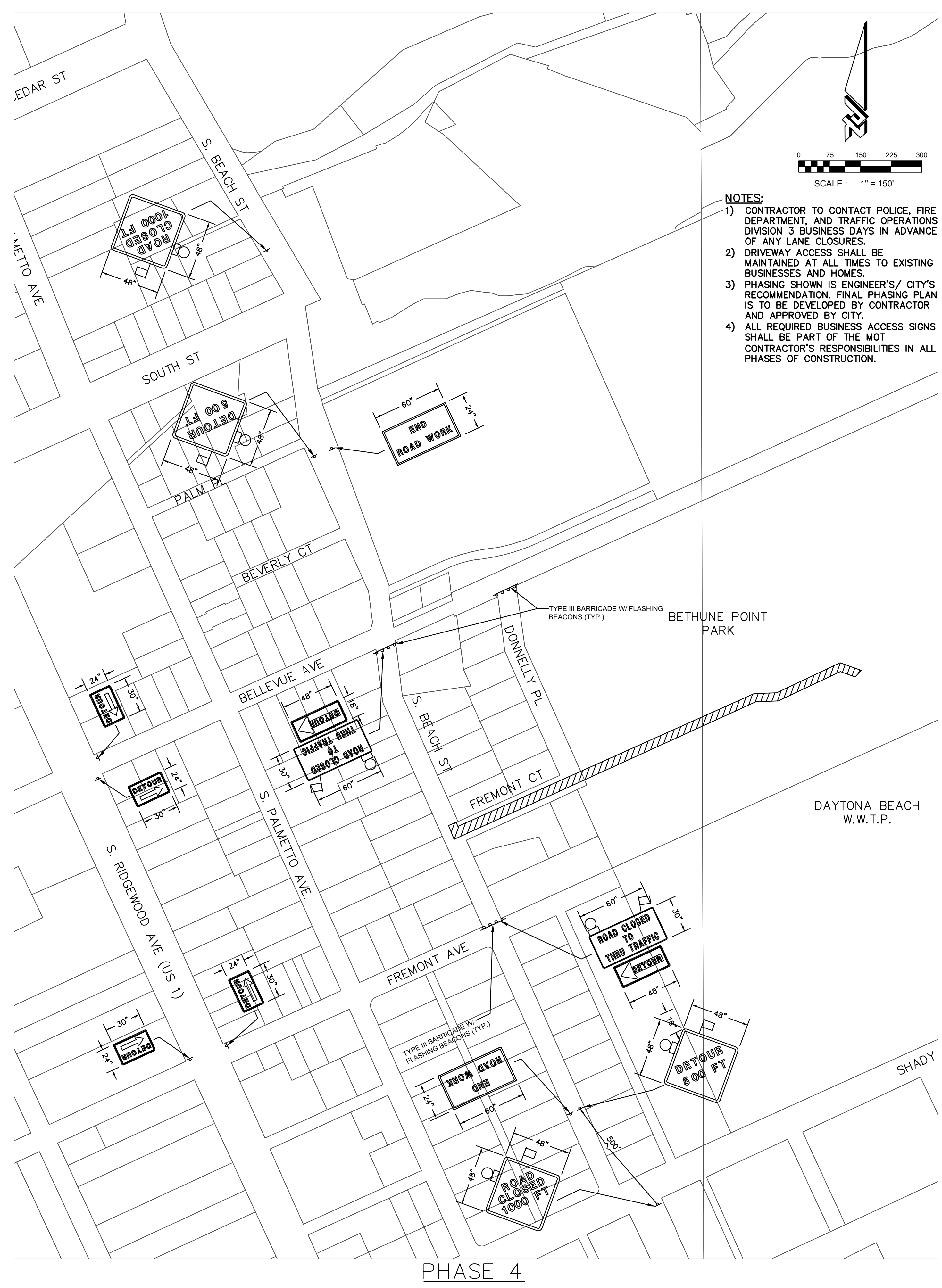
S. BEACH STREET FORCEMAIN IMPROVEMENTS MAINTENANCE OF TRAFFIC

PROJECT NO.: ZC 09062
DESIGNED BY: HK
DRAFTED BY: PEJ
CHECKED BY: HK/BB

DRAWING FILE: 09062MOT
XREFS: 09062BAS
XREFS:



PHASE 3



PHASE 4

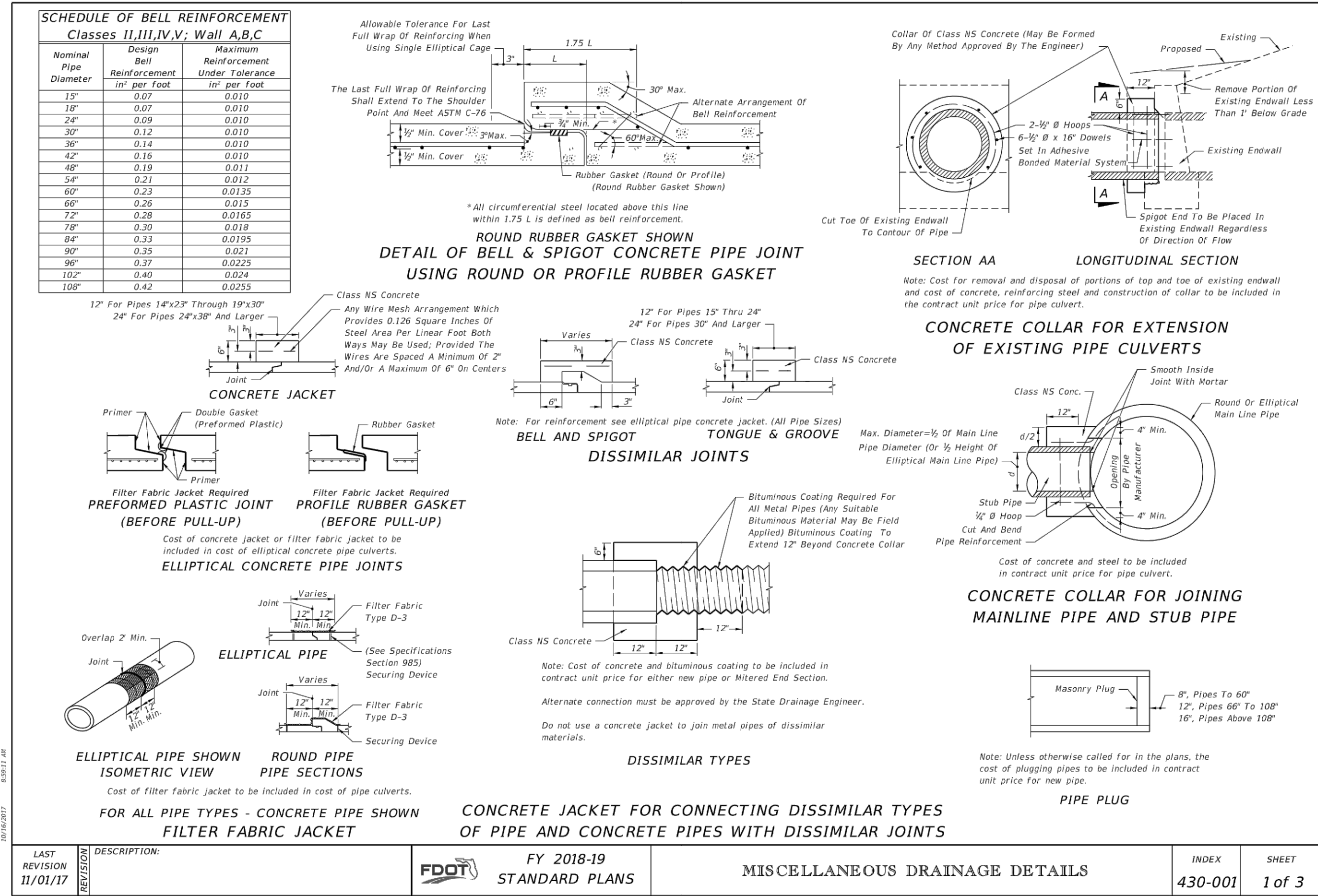
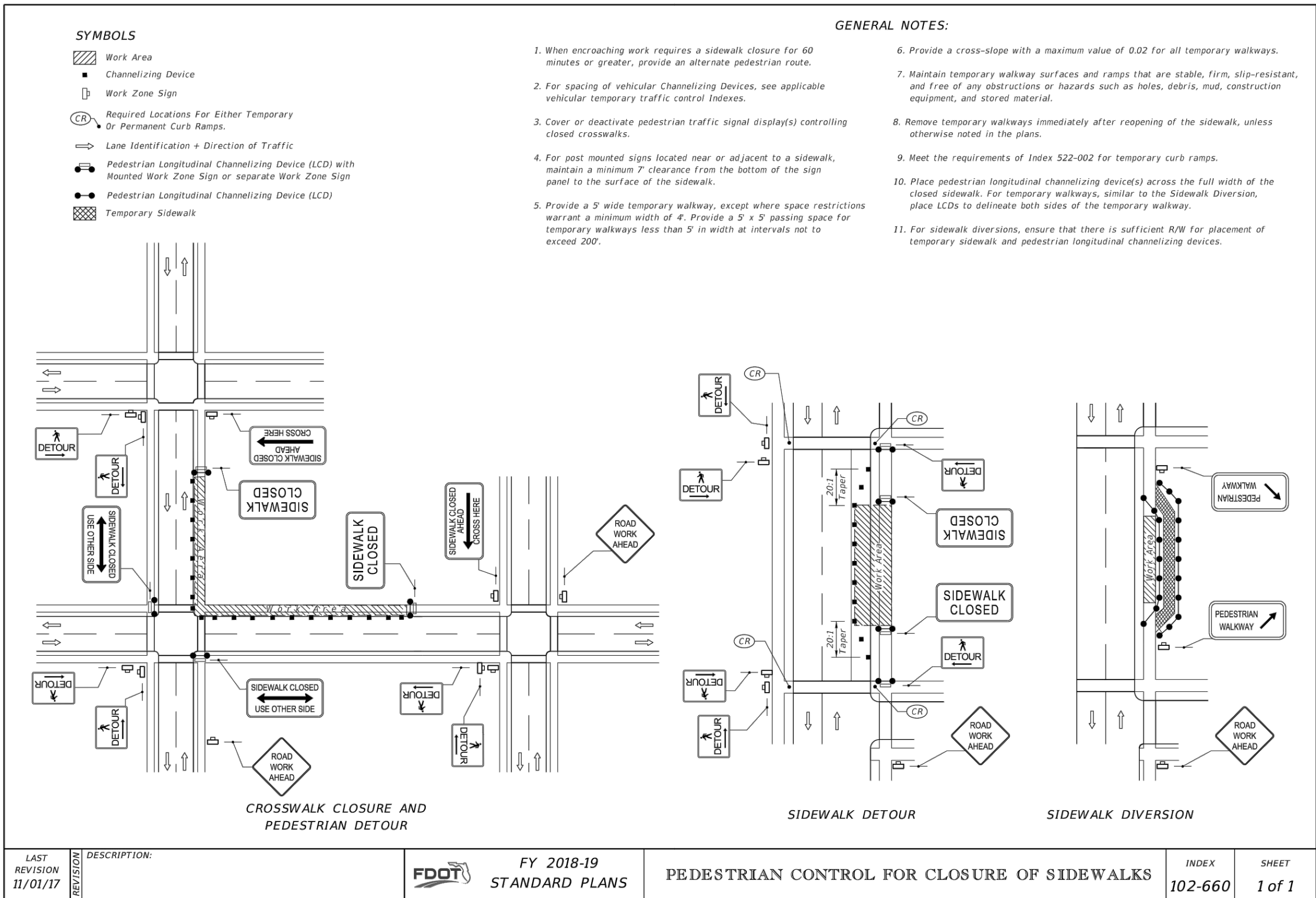
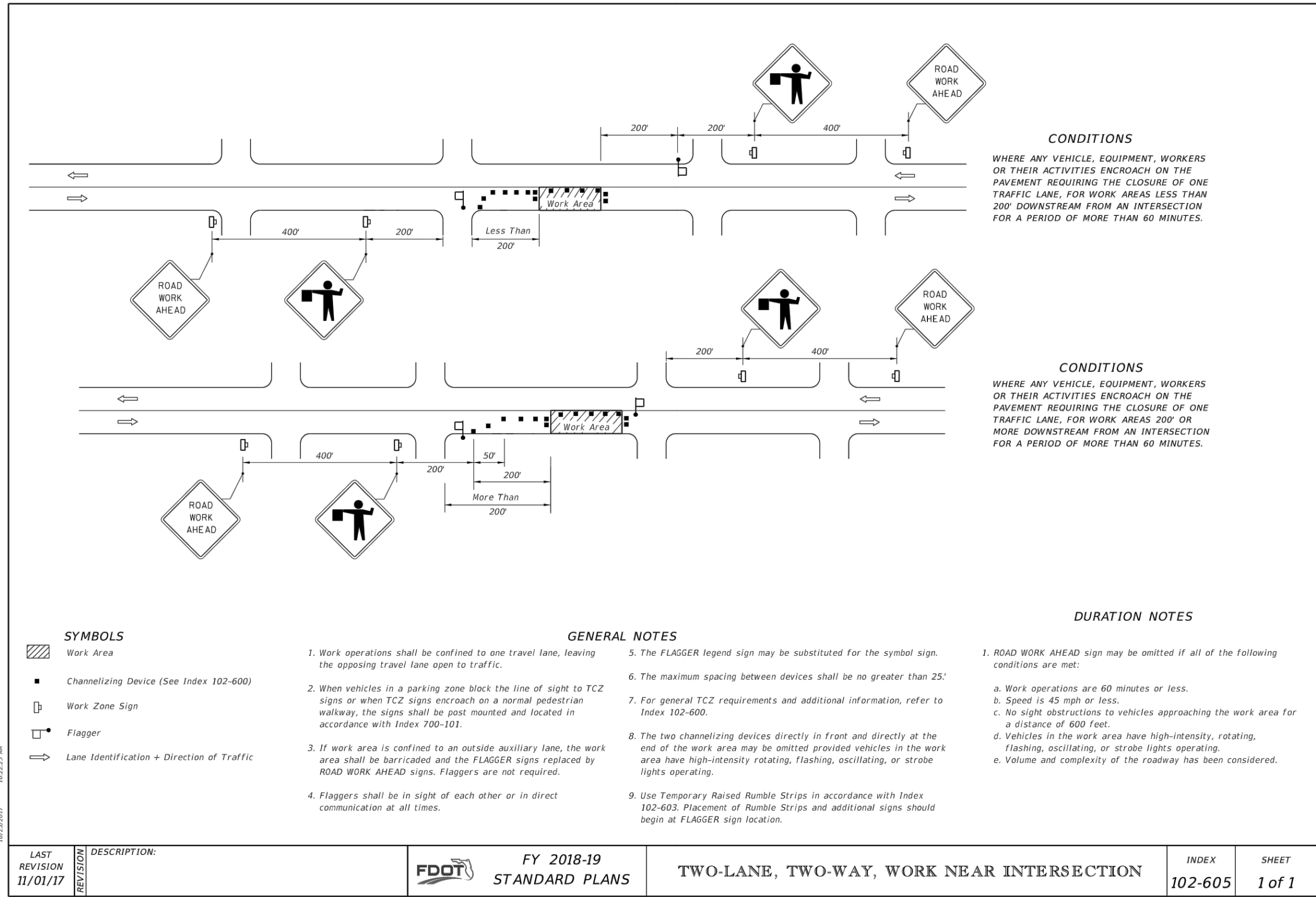
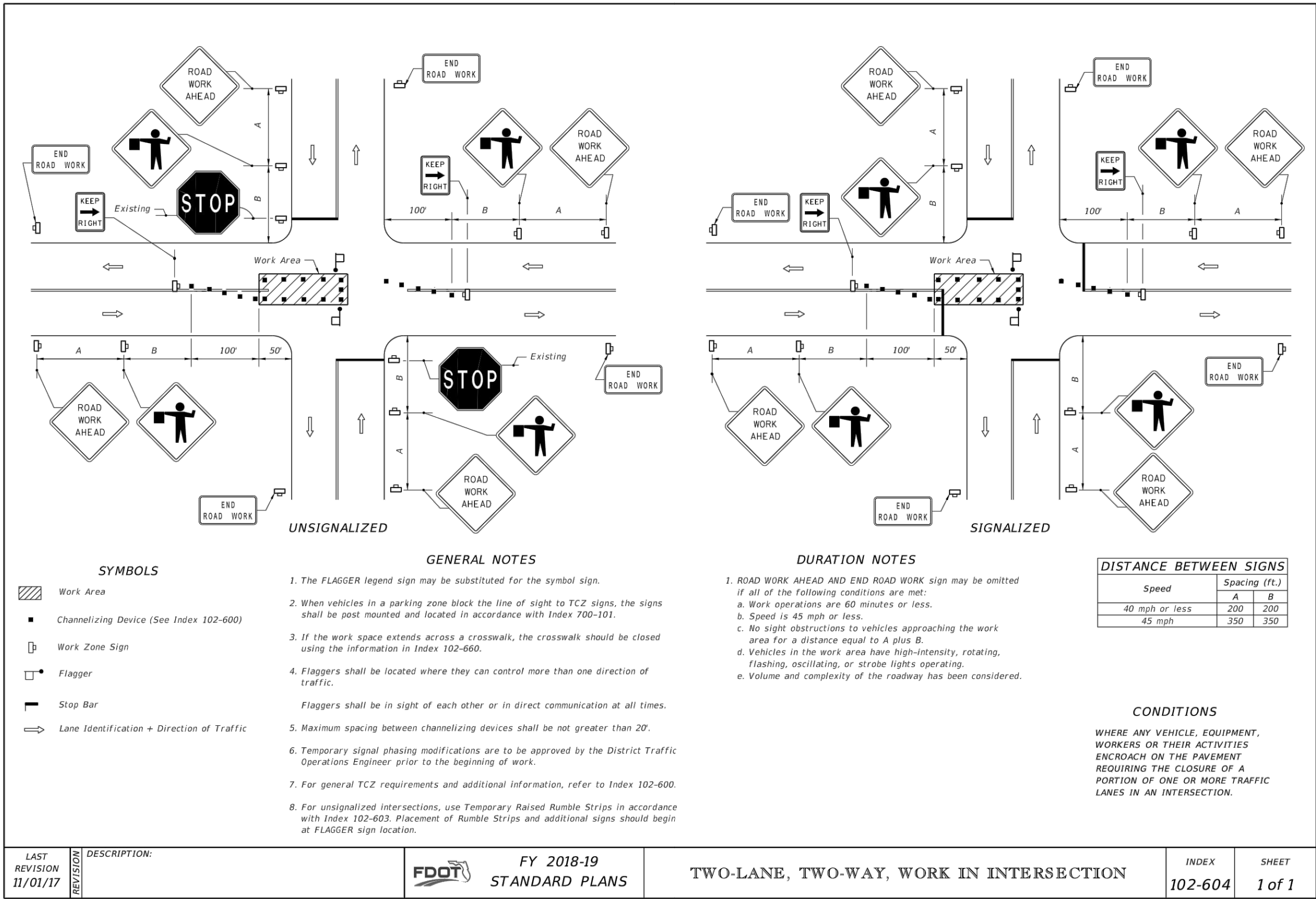


CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	SUBMITTALS / REVISIONS
1	11-15-18	SUBMITTED TO DEP.
2	12-26-19	SUBMITTED TO CITY OF DAYTONA BEACH

**S. BEACH STREET
FORCEMAIN IMPROVEMENTS
MAINTENANCE OF TRAFFIC**

PROJECT NO.: ZC 09062
DESIGNED BY: HK
DRAFTED BY: PEJ
CHECKED BY: HK/BB
DRAWING FILE: 09062MOT
XREFS: 09062BAS
XREFS:



NO.	DATE	SUBMITTALS/REVISIONS
1	11/01/17	SUBMITTED TO DPB
2	11/01/17	SUBMITTED TO CITY OF DAYTONA BEACH

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING	
			BARS	WWF
0'-5'	A12	0.20	12"	8"
0'-7.5'	A6	0.20	6"	5"
7.5'-10'	B5.5	0.24	5½"	5"
10'-15'	C6.5	0.37	6½"	6"

TYPE D


Recommended Maximum Pipe Size:

3'-1" Wall - 24" Pipe
4'-1" Wall - 36" Pipe

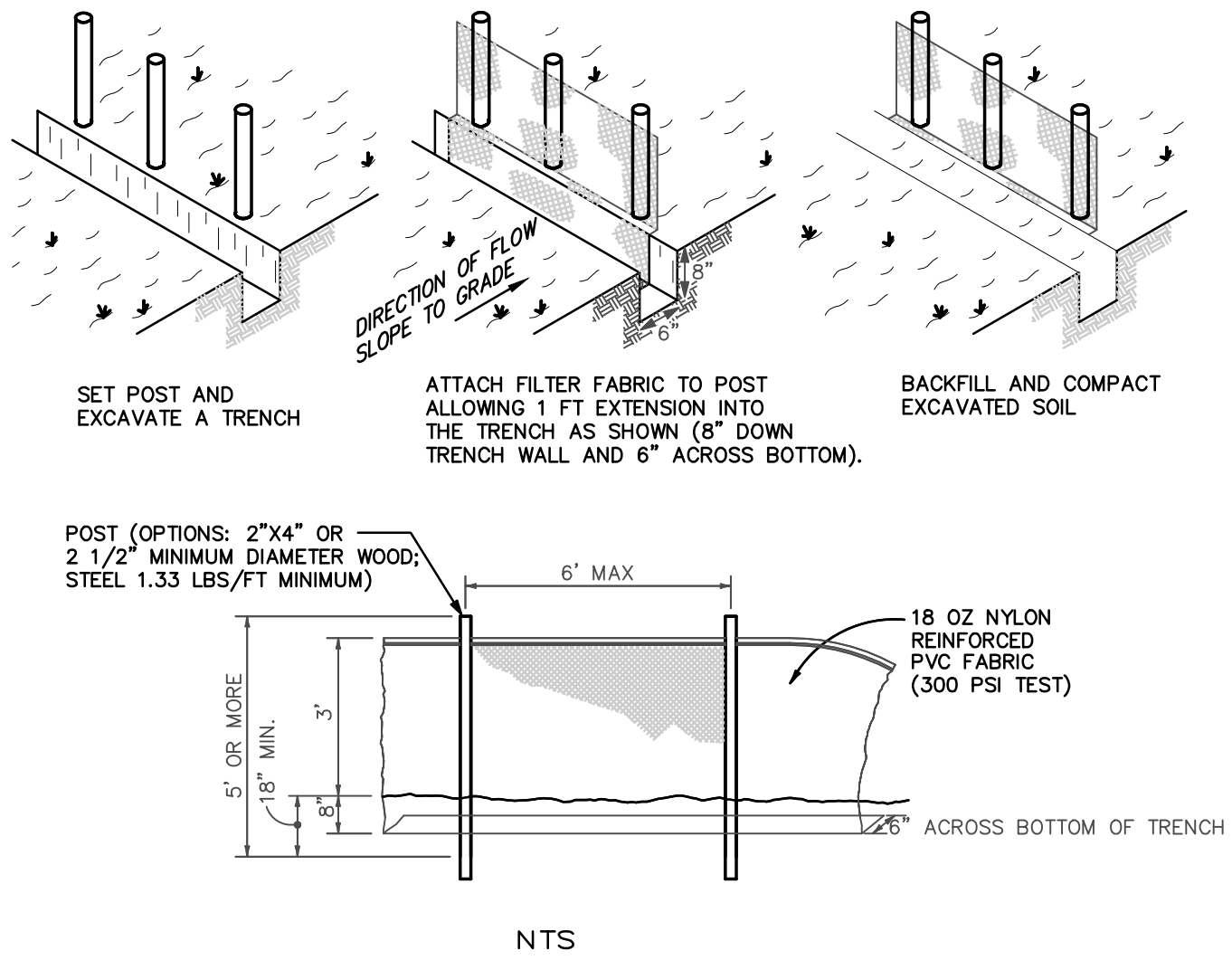
TYPE E

Recommended Maximum Pipe Size:

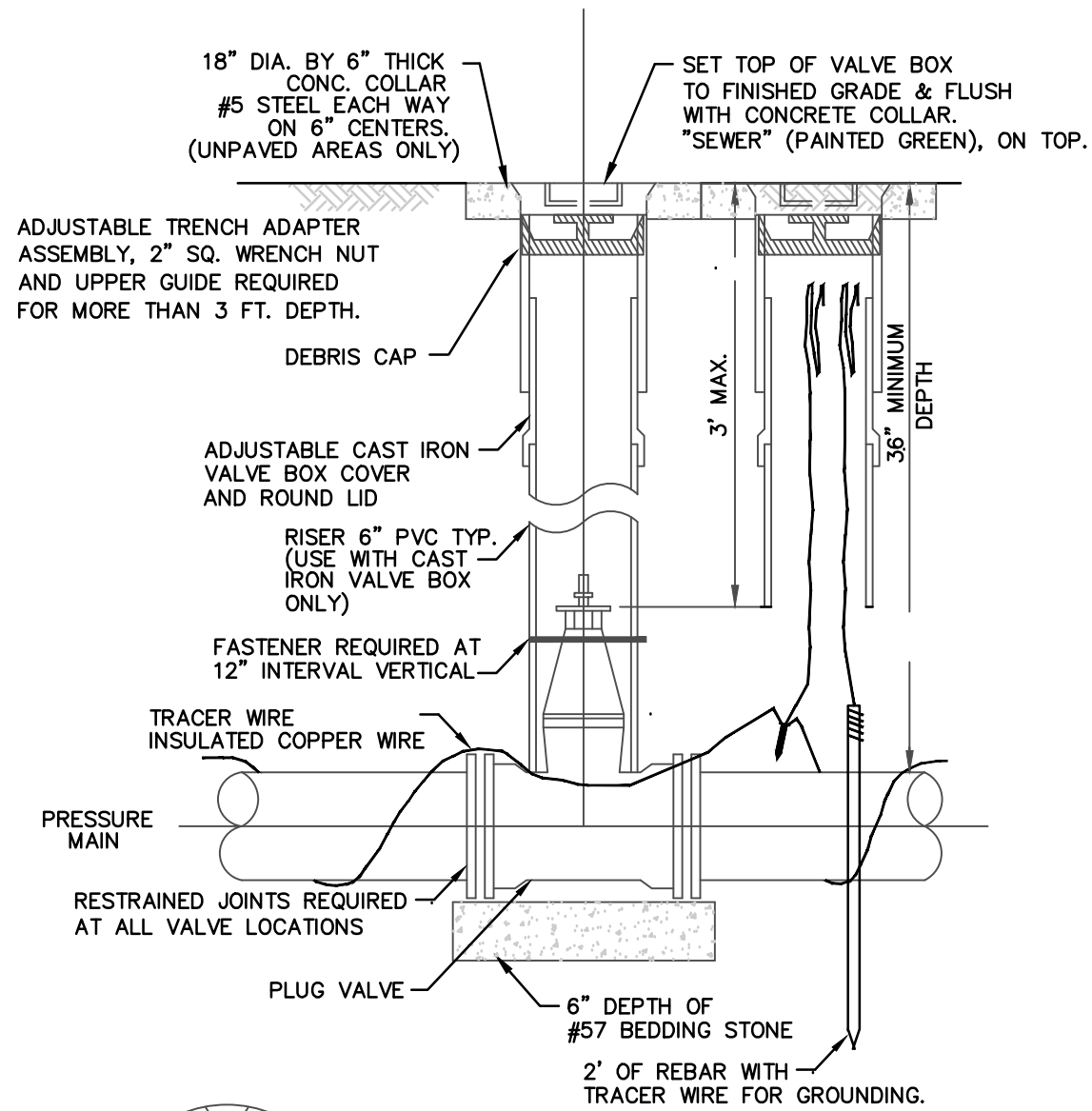
3'-0" Wall - 24" Pipe
4'-6" Wall - 36" Pipe

LAST REVISION 11/01/17	DESCRIPTION:	 FY 2018-19 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX 425-052	SHEET 3 of 7
------------------------------	--------------	--	--	------------------	-----------------





- 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 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 SURVMD.



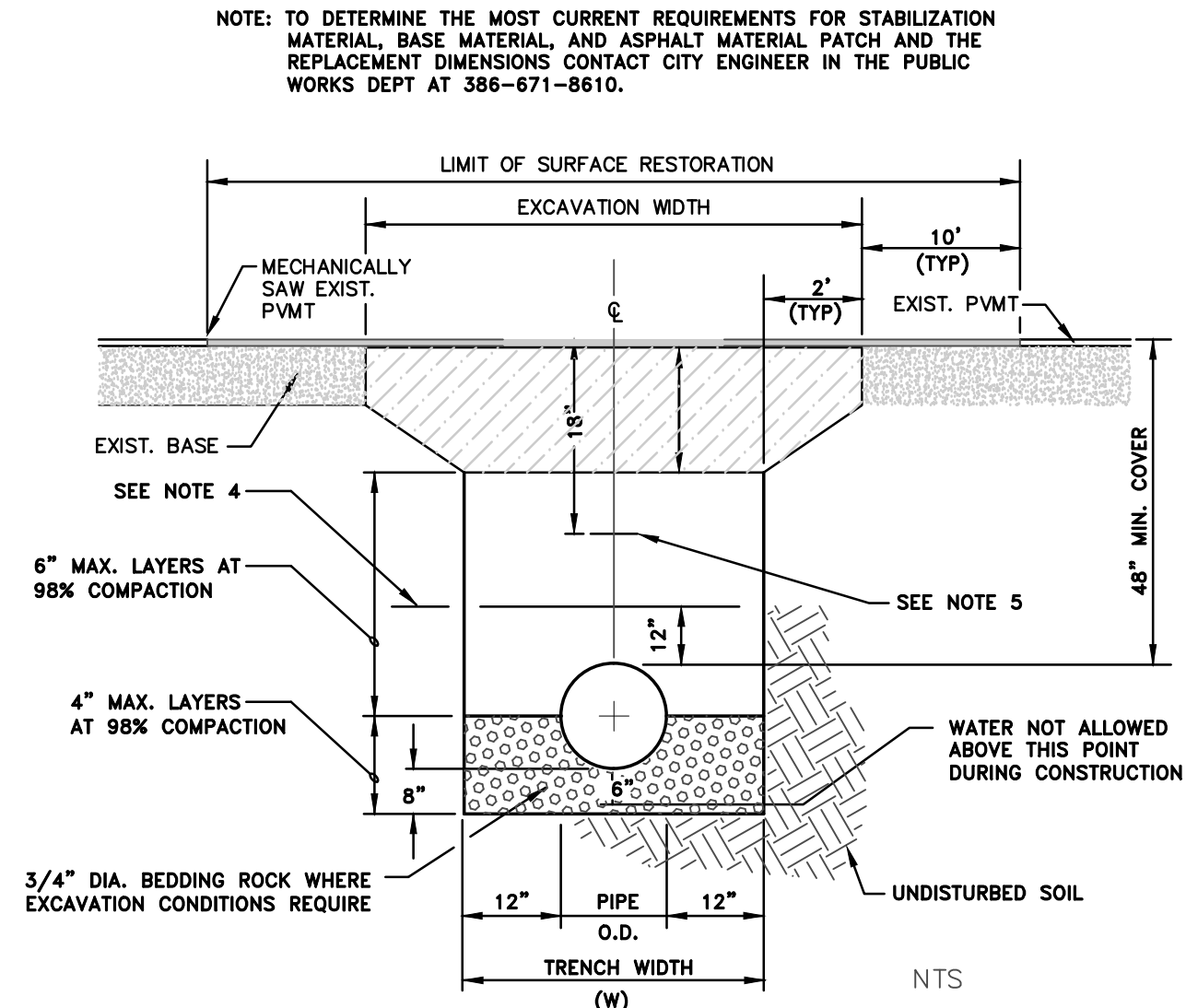
- NOTES:
1. SEE CDD'S APPROVED PRODUCT LIST FOR ACCEPTABLE MANUFACTURERS.
 2. INSTALL RESTRAINED JOINTS, AS REQUIRED, FROM DEFLECTION POINT IN BOTH DIRECTIONS (20' MIN.).
 3. TRACER WIRE SHALL BE A MINIMUM 12 GAUGE WITH A TENSILE STRENGTH/BREAK LOAD OF 452 LBS. SEE TRACER WIRE SPECIFICATION #15049



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

Notes: (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches. (2) Bedded water required under Part III of Chapter 62-610, F.A.C. (3) Bedded water required under Part III of Chapter 62-610, F.A.C. (4) Bedded water not required under Part III of Chapter 62-610, F.A.C.

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



- NOTES:
1. WHERE SOIL CONDITIONS CAN NOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD OF CONSTRUCTION.
 2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
 3. COMPACTION PERCENTAGES SHOWN REFER TO A.A.S.H.T.O. T-180. PROVIDE COMPACTION TEST REPORTS TO CITY INSPECTOR.
 4. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL.
 5. FOR PVC PIPE ONLY: INSTALL METALLIC TAPE AND UP #12 INSULATED SINGLE STRAND COPPER WIRE OVER FULL LENGTH OF PIPE.
 6. THE CONTRACTOR SHALL, UNLESS OTHERWISE NOTED, RESTORE ALL STRIPING, PAVEMENT MARKINGS, DELINEATORS, SIGNAGE AND TRAFFIC SIGNAL SYSTEM COMPONENTS DISTURBED DURING CONSTRUCTION ACTIVITIES. COST OF ALL WORK AND MATERIALS WILL BE CONSIDERED INCIDENTAL TO PATCH MATERIAL ITEMS.

THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION



STAKED SILT
FENCE
DETAIL
ST-13

FY-19/20
Drawing Date: 1/08
Drawn By: KLM
Checked By: JWP
Scale: NTS
Revision Date: 01/19
File Name: Silt Fence ST-13
Page 112

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



SANITARY VALVE AND
VALVE BOX
DETAIL
S-16

FY-19/20
Drawing Date: 01/08
Drawn By: KLM
Checked By: JWP
Scale: NTS
Revision Date: 01/19
File Name: Sanitary Valve S-16
Page 78

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



WATER MAIN
SEPARATION CHART
W-8

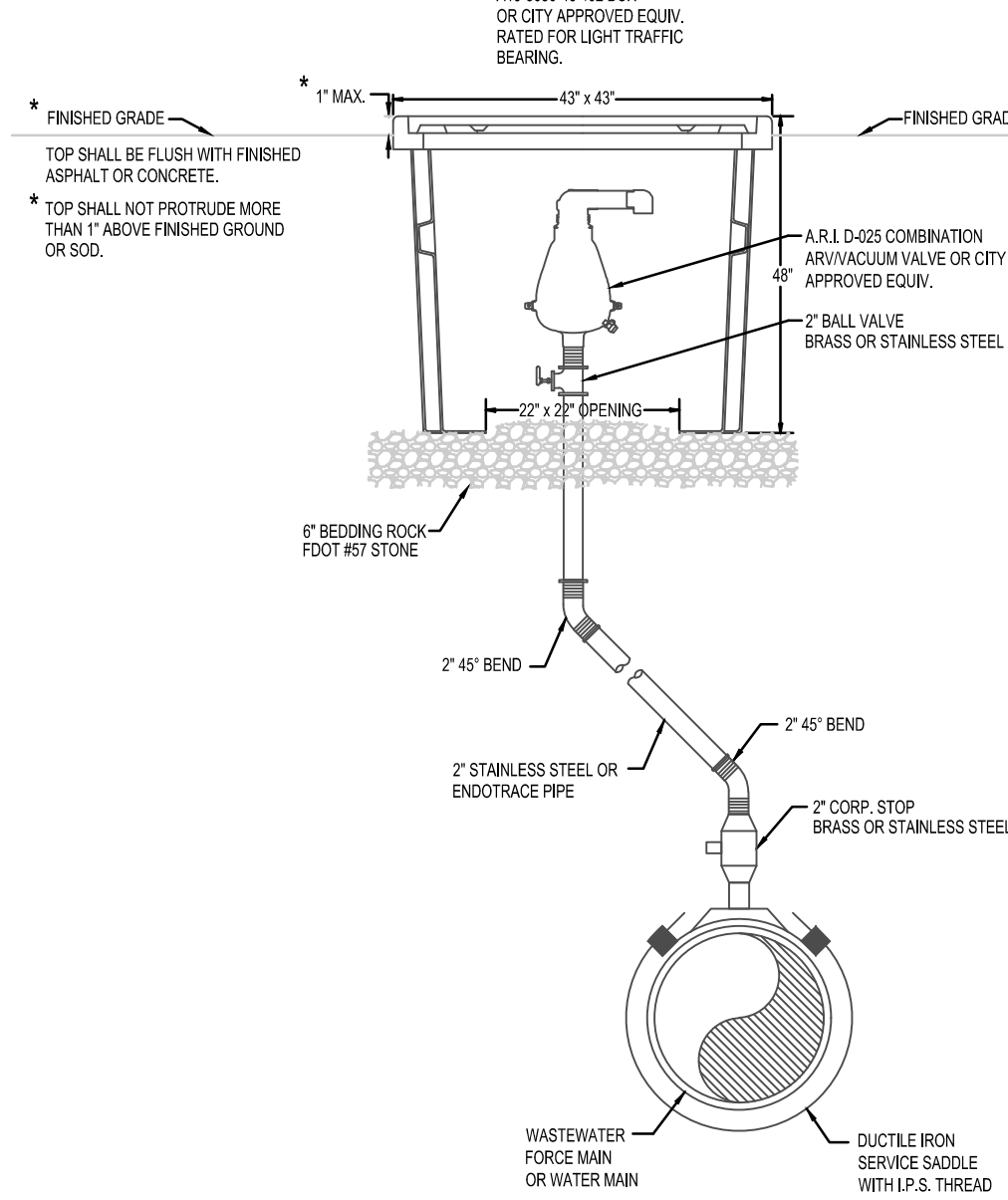
FY-19/20
Drawing Date: 01/08
Drawn By: KLM
Checked By: JWP
Scale: NTS
Revision Date: 01/19
File Name: Water Main Separation Chart W-8
Page 12

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT

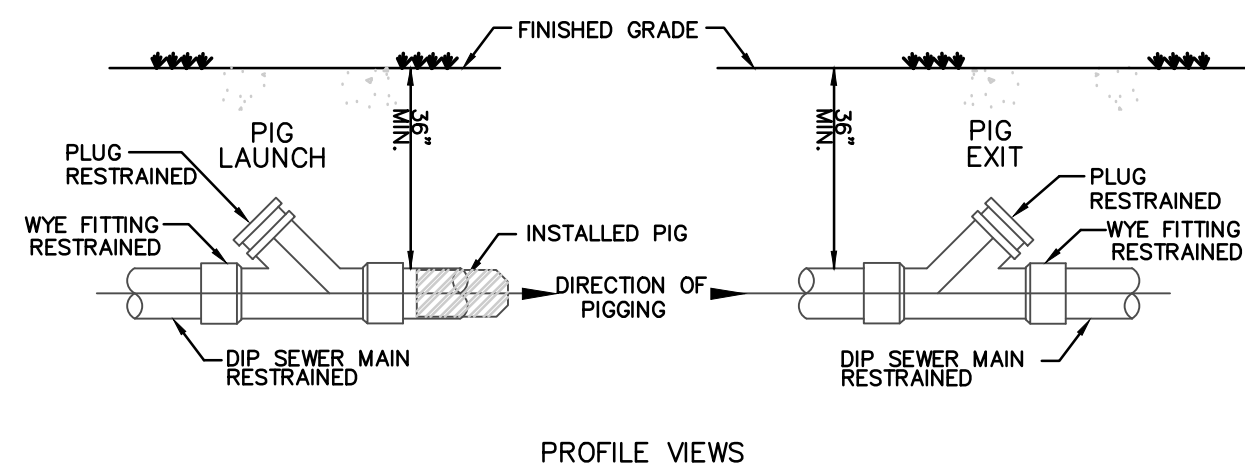


PAVEMENT CUT
AND PATCH
DETAIL
W-12

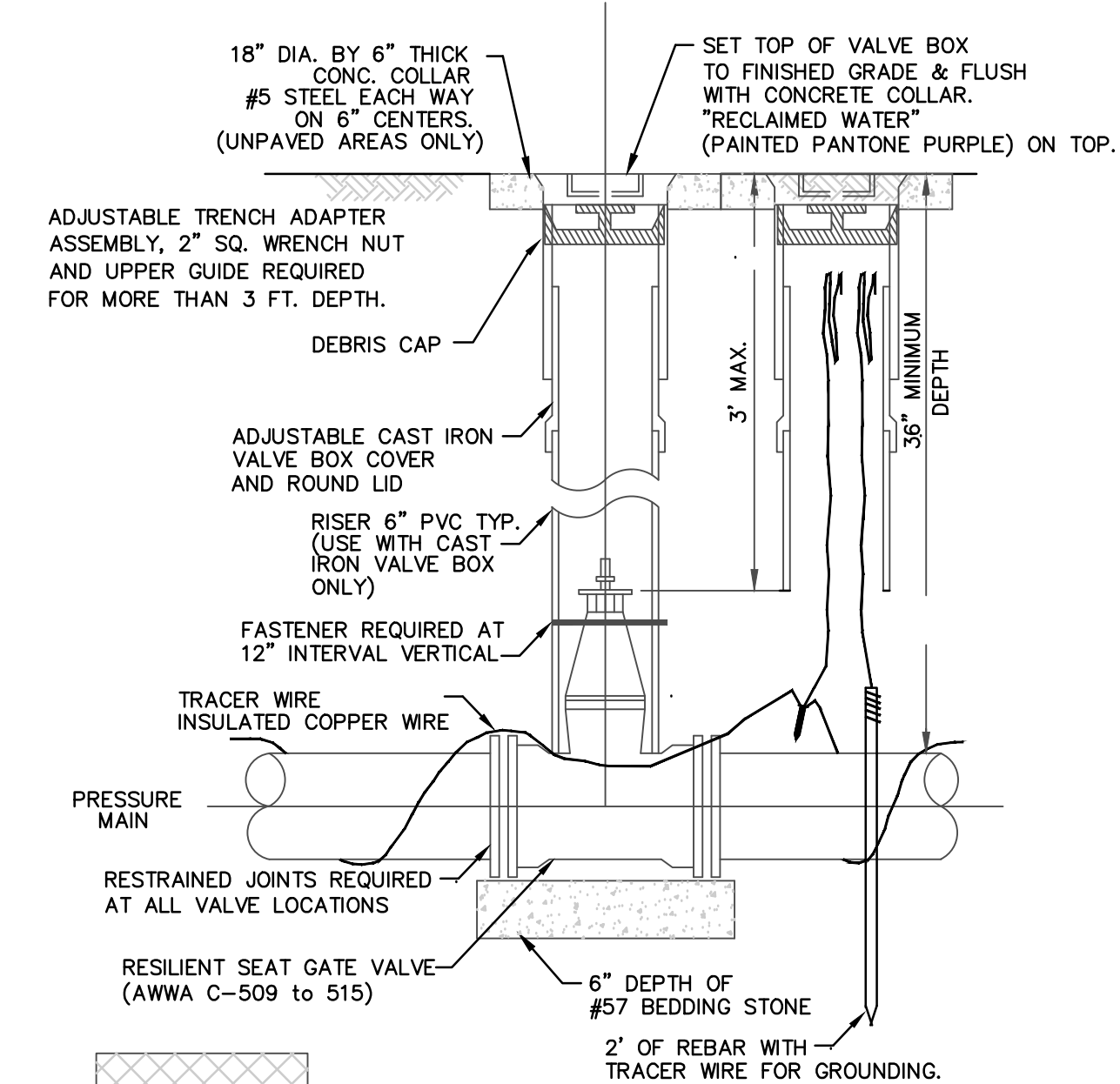
FY-19/20
Drawing Date: 01/08
Drawn By: KLM
Checked By: JWP
Scale: NTS
Revision Date: 01/19
File Name: Pavement Cut & Patch W-12
Page 16



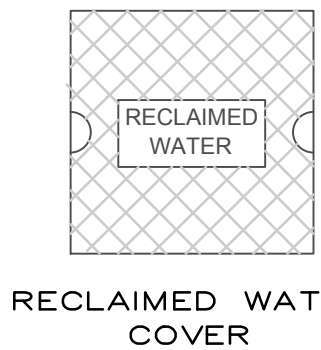
- NOTES:
1. VALVES SHALL BE CENTERED IN THE BOX
 2. ROCK SHALL BE COMPACTED TO A FIRM AND UNYIELDING CONDITION
 3. PIPING BETWEEN THE VALVE AND MAIN SHALL BE CONFIGURED TO BEST FIT FOR THE SITE CONDITION AS APPROVED BY THE CITY
 4. TOP OF BOX ON SANITARY FORCE MAIN SHALL BE CLEARLY PERMANENTLY LABELED AS SANITARY FM.
 5. TOP OF ALL BOXES SHALL BE CLEARLY AND PERMANENTLY LABELED AS TO VALVE TYPE (AIR RELEASE, VACUUM, OR AIR/VAC COMBINATION).
- OFFSET AIR/VAC RELEASE VALVE
NTS



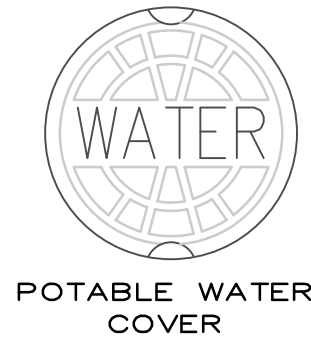
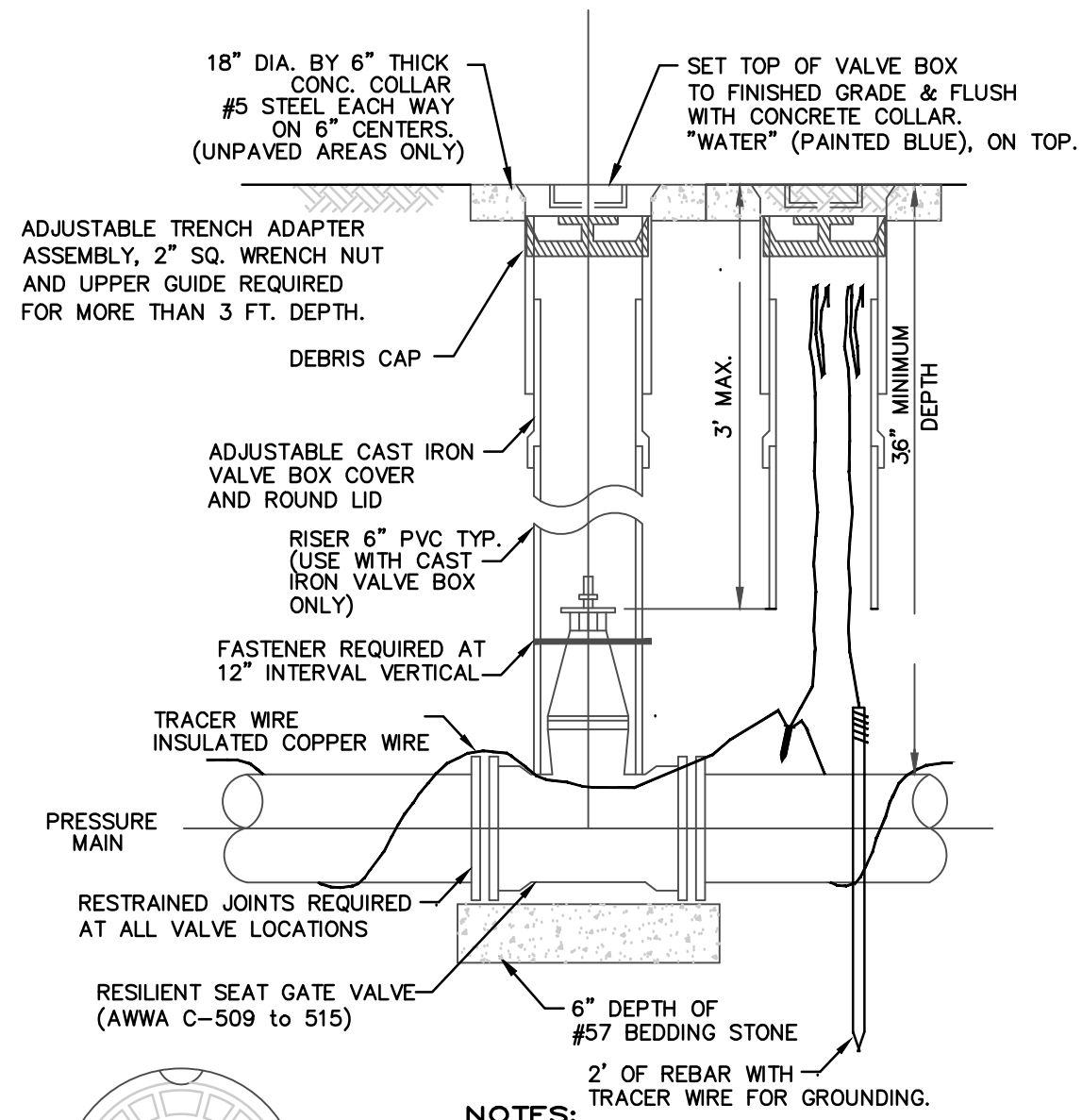
PROFILE VIEWS



- NOTES:
1. SEE CDD'S APPROVED PRODUCT LIST FOR ACCEPTABLE MANUFACTURERS.
 2. INSTALL RESTRAINED JOINTS, AS REQUIRED, FROM DEFLECTION POINT IN BOTH DIRECTIONS (20' MIN.).
 3. IF A RECLAIMED WATER METER BOX IS NOT WITH IN 200 FEET OF A VALVE & VALVE BOX, THEN IT REQUIRES AN ADDITIONAL VALVE BOX FOR TRACER WIRE.
 4. TRACER WIRE SHALL BE A MINIMUM 12 GAUGE WITH A TENSILE STRENGTH/BREAK LOAD OF 452 LBS. SEE TRACER WIRE SPECIFICATION #15049



RECLAIMED WATER
COVER



POTABLE WATER
COVER

- NOTES:
1. SEE CDD'S APPROVED PRODUCT LIST FOR ACCEPTABLE MANUFACTURERS.
 2. INSTALL RESTRAINED JOINTS, AS REQUIRED, FROM DEFLECTION POINT IN BOTH DIRECTIONS (20' MIN.).
 3. IF A WATER METER BOX IS NOT WITH IN 200 FEET OF A VALVE & VALVE BOX, THEN IT REQUIRES AN ADDITIONAL VALVE BOX FOR TRACER WIRE.
 4. TRACER WIRE SHALL BE A MINIMUM 12 GAUGE WITH A TENSILE STRENGTH/BREAK LOAD OF 452 LBS. SEE TRACER WIRE SPECIFICATION #15049

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



AUTOMATIC AIR/VACUUM
VALVE
DETAIL
S-18

FY-19/20
Drawing Date: 03/19
Drawn By: KLM
Checked By: JWP
Scale: NTS
Revision Date: 01/19
File Name: Automatic Air/Vac Valve S-18
Page 80

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



PIG LAUNCH
AND RECEIVING
DETAIL
S-21

FY-19/20
Drawing Date: 01/08
Drawn By: KLM
Checked By: JWP
Scale: NTS
Revision Date: 01/19
File Name: Pig Launch S-21
Page 83

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



VALVE AND VALVE BOX
DETAIL
RW-9

FY-19/20
Drawing Date: 01/08
Drawn By: KLM
Checked By: JWP
Scale: NTS
Revision Date: 01/19
File Name: Valve and Box RW-9
Page 50

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT



WATER VALVE AND
VALVE BOX
DETAIL
W-13

FY-19/20
Drawing Date: 01/08
Drawn By: KLM
Checked By: JWP
Scale: NTS
Revision Date: 01/19
File Name: Water Valve W-13
Page 17

S. BEACH STREET
FORCEMAIN IMPROVEMENTS
CONSTRUCTION DETAILS

PROJECT NO: ZC 09062

DESIGNED BY: HK

DRAFTED BY: PEJ

CHECKED BY: HK/BB

DRAWING FILE: 09062CV1

XREFS: 09062BAS

XREFS:

HALUK KELIC, P.E. NO 84244
NOT VALID WITHOUT SEAL

SHEET: C24 OF 25

CITY PROJECT NO. 6361-3

ZEV COHEN
& ASSOCIATES, INC.
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL
PLANNING
TRANSPORTATION

NO.	DATE	SUBMITTALS/REVISIONS
1	11-19-18	SUBMITTED TO DEPT.
2	12-26-19	SUBMITTED TO CITY OF DAYTONA BEACH

FLORIDA COUNTY, FLORIDA

CITY OF DAYTONA BEACH

