

RETROFIT OF TWEDDLE PARK

STORMWATER PUMP STATION

LOCATION MAP



SHEET INDEX

SHEET	DESCRIPTION
G-01	COVER SHEET
V-01	MAP OF TOPOGRAPHIC SURVEY
V-02	PUMP STATION PLAN VIEW ASBUILT
V-03	PUMP STATION ELEVATION VIEW ASBUILT
C-01	CIVIL & MECHANICAL ABBREVIATIONS & LEGEND SHEET
C-02	DEMO PUMP STATION PLAN VIEW
C-03	DEMO PUMP STATION ELEVATION VIEW
C-04	CIVIL SITE PLAN
M-01	DOWNSTREAM DEFENDER PLAN VIEW
M-02	DOWNSTREAM DEFENDER ELEVATION VIEW
M-03	PUMP STATION PLAN VIEW
M-04	PUMP STATION ELEVATION VIEW
D-01	STANDARD DETAILS
D-02	CHECK VALVE DETAILS
E-1 - E-02	ELECTRICAL PLANS

BOARD OF CITY COMMISSIONERS

MAYOR	GLENN SINGER
VICE MAYOR	KENNETH BERNSTEIN
COUNCIL MEMBER	BERNARD EINSTEIN
COUNCIL MEMBER	JUDY LUSSKIN
COUNCIL MEMBER	JAIME MENDAL

SECTION 02, TOWNSHIP 52S, RANGE 42E

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA



FILE NAME: 00-23-037-G-01-COVER.dwg

CAS PROJECT No. 08-23-037

FOR CONSTRUCTION



CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL - BOCA RATON, FLORIDA 33486
(561) 314-4445 WWW.CRAIGASMITH.COM
CERTIFICATE OF AUTHORIZATION NUMBER: LB0003110



NO.	DATE	REVISION	BY

ORLANDO A. RUBIO, P.E. (CML)
DATE _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

ORLANDO A. RUBIO, STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 48265.
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED
BY ORLANDO A. RUBIO, P.E. ON THE DATE INDICATED
HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT
CONSIDERED SIGNED AND SEALED AND THE SIGNATURE
MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

P:\Cities_Villages_Towns\Golden_Beach\08-23-037-V-01-SRVY.dwg, 5/14/2024 11:59:45 AM, mmarino, i:2

LOCATION MAP

SCALE: N.T.S.



SURVEYOR'S NOTES:

- REPRODUCTIONS OF THIS SURVEY ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- NO SEARCH OF THE PUBLIC RECORDS WAS PERFORMED BY THIS FIRM IN THE MAKING OF THIS SURVEY. THERE MAY BE EASEMENTS, RESERVATIONS, RESTRICTIONS, RIGHTS OF WAY AND/OR RECORDED OR UNRECORDED AGREEMENTS ETC., NOT SHOWN HEREON.
- UNDERGROUND IMPROVEMENTS I.E. FOOTINGS, DRAINAGE, UTILITIES, ETC. HAVE NOT BEEN INVESTIGATED BY THE SURVEYOR. SUBSURFACE UTILITY MARKINGS SHOWN HEREON ARE PER THE CRAIG A. SMITH & ASSOCIATES UTILITY LOCATING DEPARTMENT, UNLESS OTHERWISE NOTED.
- HORIZONTAL COORDINATE INFORMATION FOR CRAIG A. SMITH & ASSOCIATES STATIC CONTROL POINTS (SP) SHOWN IN THE TABLE BELOW IS RELATIVE TO THE FLORIDA STATE PLANE COORDINATE GRID SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD '83) WITH THE 2011 ADJUSTMENT. FURTHER ADJUSTMENT WAS MADE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION GNSS PROCESSING CENTER BASED ON 'REAL TIME' OBSERVATIONS PERFORMED AT THE SITE. VERTICAL DATA SHOWN HEREON IS RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD '29) AND IS BASED ON MIAMI DADE COUNTY SURVEY BENCHMARK 'E-201' HAVING A PUBLISHED ELEVATION OF 6.29'.

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CAS 1 (SP)	591187.98	944989.79	3.60'	IRC LB 3110
CAS 2 (SP)	591163.56	945071.03	4.51'	IRC LB 3110

- ALL SYMBOLS SHOWN ARE FOR REPRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE.
- THE GENERAL AREA OF INTEREST FOR THE TOPOGRAPHY WAS REQUESTED BY THE CLIENT.
- THE INTENT OF THIS 'MAP OF TOPOGRAPHIC SURVEY' IS TO AID IN THE DESIGN OF STORMWATER PUMP STATION IMPROVEMENTS WITHIN THE AREAS SHOWN HEREON. THIS IS NOT A BOUNDARY SURVEY.
- THE ACCURACY OF THIS SURVEY IS PREMISED ON THE EXPECTED USE OF THE SURVEY. THE EXPECTED USE/PREMISE OF THIS SURVEY IS THE DESIGN OF STORMWATER PUMP STATION IMPROVEMENTS. A TRIMBLE R12 GNSS INSTRUMENT WITH TRIMBLE TSC-7 DATA COLLECTION WAS UTILIZED TO ESTABLISH HORIZONTAL CONTROL AND LOCATE UTILITY SURFACE MARKS AND MISC. FEATURES HORIZONTALLY. A TOPCON ES-102 INSTRUMENT WITH RANGER (TDS) DATA COLLECTION WAS UTILIZED TO COLLECT DATA IN BOTH THE HORIZONTAL AND VERTICAL PLANES. A CLOSED LEVEL LOOP WAS PERFORMED USING A TOPCON GTS 2 LEVEL TO TRANSFER ELEVATIONS FROM THE KNOWN BENCHMARK LISTED ABOVE AND THROUGHOUT THE PROJECT. SHEETS V-02 AND V-03 SHOW MEASURED DIMENSIONS AND ELEVATIONS (IN PARENTHESES) PER THE ENGINEERS REQUEST INSIDE AND AROUND THE EXISTING PUMP STATION WHERE ACCESSIBLE. GREY SCALED INFORMATION WAS PROVIDED TO THE SURVEYOR.
- THE DIGITAL DATA PROVIDED IS INTENDED TO BE VIEWED AT A SCALE OF 1" = 10' ON A STANDARD 24" X 36" SHEET.
- ALL DISTANCES AND ELEVATIONS SHOWN HEREON ARE IN ACCORD WITH THE UNITED STATES STANDARD USING FEET AND DECIMALS THEREOF.

GENERAL ABBREVIATIONS

ABRV	DESCRIPTION
A/C	AIR CONDITION PAD
BOTT	BOTTOM
(C)	CALCULATED
CIP	CAST IRON PIPE
CL	CENTER LINE
COMM	COMMUNICATION
CONC	CONCRETE
(D)	DEED/DESCRIPTION
DIP	DUCTILE IRON PIPE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EXIST	EXISTING
FF	FINISHED FLOOR
FND	FOUND
FPL	FLORIDA POWER & LIGHT
GE	GRATE ELEVATION
HDPE	HIGH DENSITY POLYETHYLENE
IE	INVERT ELEVATION
IR	IRON ROD
IRC	IRON ROD AND CAP
IP	IRON PIPE
L	ARC LENGTH
LB	LICENSED BUSINESS
LF	LINEAR FEET
(M)	MEASURED
MND	MAGNETIC NAIL AND DISC
NTS	NOT TO SCALE
ORB	OFFICIAL RECORDS BOOK
(P)	PLAT
PB	PLAT BOOK
PC	POINT OF CURVATURE
PG	PAGE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RE	RIM ELEVATION
R/W	RIGHT OF WAY
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TOP	TOP OF PIPE
TYP	TYPICAL
Δ	DELTA
PBCR	PALM BEACH COUNTY RECORDS
26-45-49	SECTION-TOWNSHIP-RANGE

GENERAL SYMBOL LEGEND

SYM.	DESCRIPTION
⊕	BENCH MARK
⊙	NAIL & DISC
⊗	ELECTRIC JUNCTION BOX
☆	LIGHT POLE
○ CO	CLEAN OUT
⊙	STAND PIPE
⊗ SV	SEWER VALVE
⊗ CB	CATCH BASIN
⊙ SDMH	STORM DRAIN MANHOLE
N	BACKFLOW PREVENTOR
WM	WATER METER
⊗	WATER VALVE
⊗	PALM TREE (TRPL)
⊗	SIGN
CONC	CONCRETE
BUILDING	BUILDING
⊙	BORE HOLE

STANDARD LINETYPES

SYMBOL	DESCRIPTION
———	BOUNDARY LINE
- - - - -	EASEMENT LINE
———	LOT LINE
———	RIGHT OF WAY LINE
———	CENTER LINE
———	LANDSCAPE/TREE LINE
———	PLAT LINE
———	CURB & GUTTER
-X-X-X-X-X-	FENCE LINE
SD	SD
BE	BE
BE	BURIED ELECTRIC

DIGITAL SIGNATURE

IF THIS DOCUMENT WAS DIGITALLY SIGNED BY THE SURVEYOR ON THE DATE SHOWN, PRINTED COPIES OF THE DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE DIGITAL SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SURVEYORS CERTIFICATE:

I HEREBY CERTIFY THAT THIS SURVEY IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND MEETS APPLICABLE SECTIONS OF THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, SUBJECT TO QUALIFICATIONS NOTED HEREON.

FOR THE FIRM BY: ROBERT D. KEENER
PROFESSIONAL SURVEYOR & MAPPER
FLORIDA REGISTRATION NO. 4846

FIELD DATE: 02/07/24

SIGNATURE DATE: _____

NO.	DATE	FB / PG	DWN	REVISION	CKD
3	02/28/24	1950/24	TMM	ADD SOFT DIGS	RDK
2	10/19/23	1950/24	JBF	ADD ASBUILT ELEVATIONS TO PUMP STATION	RDK
1	05/19/23	1950/24	JBF	MAP OF TOPOGRAPHIC SURVEY	RDK

TOWN OF GOLDEN BEACH

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB00031110

MAP OF
TOPOGRAPHIC
SURVEY

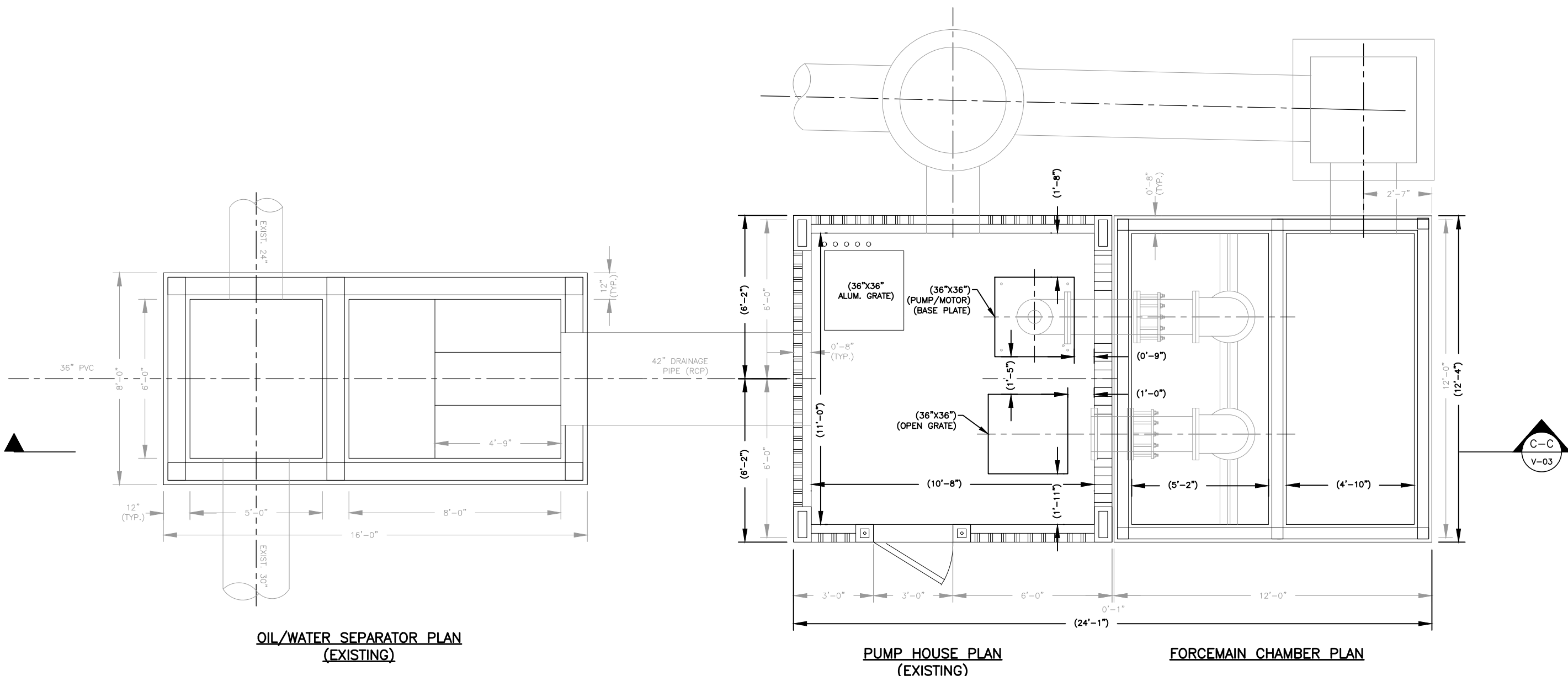
RETROFIT OF JOHN TWEDDLE PARK
STORMWATER PUMP STATION

FILE NAME: 20-23-037-V-01-SRVY.dwg
LAST SAVED: 02/28/24 - 10:14am

CAS PROJECT NUMBER
08-23-037

SHEET
V-01
OF
03

P:\Cities_Villages_Towns\Golden_Beach\08-23-037_V-02-PLAN_ASB.dwg, 5/ 4/ 2024 11:39:59 AM, omanufa, 1:2



PUMP STATION PLAN VIEW

12" 0 1' 3'
24" X 36" SCALE: 1/2"=1'-0"
11" X 17" SCALE: 1/4"=1'-0"



NO.	DATE	FB / PG	DWN	REVISION	CKD
3	02/28/24	1950/24	TMM	ADD SOFT DIGS	RDK
2	10/19/23	1950/24	JBF	ADD ASBUILT ELEVATIONS TO PUMP STATION	RDK
1	05/19/23	1950/24	JBF	MAP OF TOPOGRAPHIC SURVEY	RDK

PREPARED FOR
TOWN OF GOLDEN BEACH

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

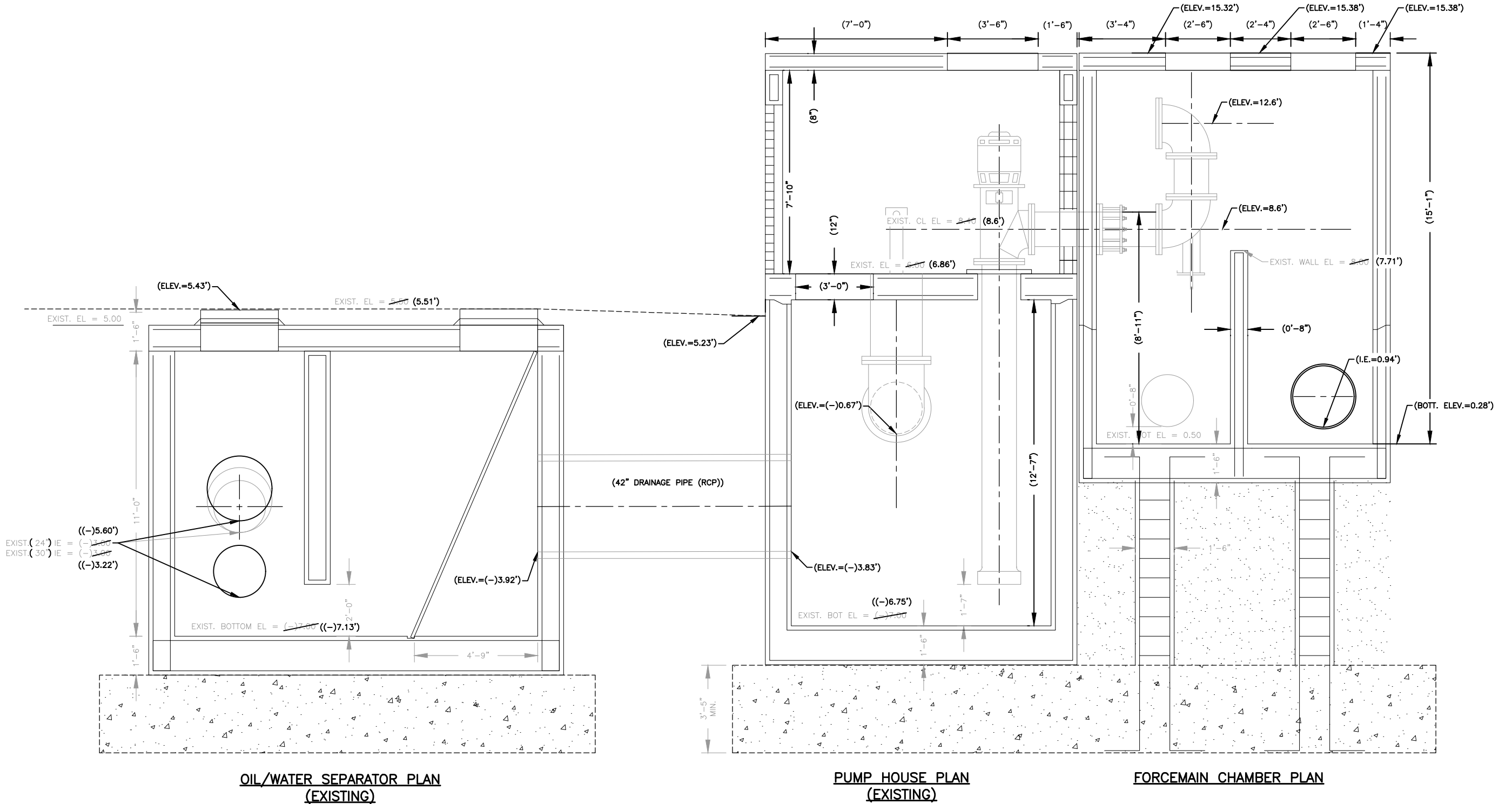
MAP OF TOPOGRAPHIC SURVEY

RETROFIT OF JOHN TWEDDLE PARK
STORMWATER PUMP STATION
PUMP STATION PLAN VIEW
ASBUILT

FILE NAME: 20-23-037-V-02-PLAN_ASB.dwg
LAST SAVED: 02/28/24 - 10:15am
CAS PROJECT NUMBER
08-23-037

SHEET
V-02
OF
03

P:\Cities_Villages_Towns\Golden_Beach\08-23-037_V-03-PLAN_ASB.dwg, 3/4/2024 11:40:11 AM, onamfio, 1:2



SECTION C-C

12" 0 1' 3'
24" X 36" SCALE: 1/2"=1'-0"
11" X 17" SCALE: 1/4"=1'-0"

NO.	DATE	FB / PG	DWN	REVISION	CKD
3	02/28/24	1950/24	TMM	ADD SOFT DIGS	RDK
2	10/19/23	1950/24	JBF	ADD ASBUILT ELEVATIONS TO PUMP STATION	RDK
1	05/19/23	1950/24	JBF	MAP OF TOPOGRAPHIC SURVEY	RDK

PREPARED FOR
TOWN OF GOLDEN BEACH

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB00031110

MAP OF
TOPOGRAPHIC
SURVEY

RETROFIT OF JOHN TWEDDLE PARK
STORMWATER PUMP STATION
SECTION C-C
ASBUILT

FILE NAME: 20-23-037-V-03-PLAN_ASB.dwg
LAST SAVED: 02/28/24 - 10:25am
CAS PROJECT NUMBER
08-23-037

SHEET
V-03
OF
03

P:\Cities_Villages_Towns\Golden_Beach\08-23-037_C-01-LEGEND.dwg, 3/ 4/ 2024 11:40:22 AM, onamrfo, 1/2

GENERAL ABBREVIATIONS

ABRV	DESCRIPTION	ABRV	DESCRIPTION
A/C	AIR CONDITION PAD	NTS	NOT TO SCALE
ACP	ASBESTOS CEMENT PIPE	ORB	OFFICIAL RECORDS BOOK
ALUM	ALUMINUM	O / S	OFF SET
APPROX	APPROXIMATELY	(P)	PLAT
B.C.R.	BROWARD COUNTY RECORDS	P.B.	PLAT BOOK
B/L	BASELINE	P.B.C.R.	PALM BEACH COUNTY RECORDS
BOTT	BOTTOM	PC	POINT OF CURVE
(C)	CALCULATED	PCP	PERMANENT CONTROL POINT
CIP	CAST IRON PIPE	PGS	PAGES
℄	CENTER LINE	PHDPE	PERFORATED HIGH DENSITY POLYETHYLENE
CONC	CONCRETE	PI	POINT OF INTERSECTION
D	DEED/DESCRIPTION	PK&D	PK NAIL AND DISK
D.E.	DRAINAGE EASEMENT	PRC	POINT OF REVERSE CURVE
DIA	DIAMETER	PROP	PROPOSED
DIP	DUCTILE IRON PIPE	PRM	PERMANENT REFERENCE MARKER
ELEV	ELEVATION	PSM	PROFESSIONAL SURVEYOR AND MAPPER
EOW	EDGE OF WATER	PT	POINT OF TANGENCY
EP	EDGE OF PAVEMENT	PVC	POLY VINYL CHLORIDE
EXIST	EXISTING	R	RADIUS
FF	FINISHED FLOOR	RCP	REINFORCED CONCRETE PIPE
FND	FOUND	R.E.	RIM ELEVATION
FPL	FLORIDA POWER & LIGHT	RGE	RANGE
GFF	GARAGE FINISHED FLOOR	R/W	RIGHT-OF-WAY LINE
HDPE	HIGH DENSITY POLYETHYLENE	SEC	SECTION
I.E.	INVERT ELEVATION	TOB	TOP OF BANK
IR	IRON ROD	TOE	TOE OF SLOPE
IR&C	IRON ROD AND CAP	TOP	TOP OF PIPE
IP	IRON PIPE	TWP	TOWNSHIP
L	ARC LENGTH	TYP	TYPICAL
LB	LICENSED BUSINESS	U.E.	UTILITY EASEMENT
LF	LINEAR FEET	VCP	VITRIFIED CLAY PIPE
(M)	MEASURED	△	DELTA

STANDARD LINETYPES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BASELINE		BURIED TRAFFIC CONTROL
	PARCEL LINE		COMMUNICATIONS DUCTBANK CL
	BOUNDARY LINE		FIBER OPTIC DUCTBANK CL
	EASEMENT LINE		OVERHEAD WIRE
	LOT LINE		BURIED ELECTRIC
	RIGHT OF WAY LINE		BURIED STREET LIGHTING
	CENTER LINE		ELECTRICAL DUCTBANK CENTER LINE
	SECTION LINE		FORCE MAIN
	LANDSCAPE LINE		SANITARY SEWER
	EDGE OF WATER		SANITARY SERVICE
	RR TRACKS		VACUUM SEWER
	PLAT LINE		STORM DRAIN
	CURB & GUTTER		FIRE LINE
	FENCE LINE		RAW WATER LINE
	GUARD RAIL		WATER LINE MAIN
	UNKNOWN UTILITY		WATER LINE CHILLED
	ABANDONED UTILITY		WATER SERVICE
	NON FIELD VERIFIED UTILITY		IRRIGATION LINE
	BURIED CABLE TV		GAS LINE ABOVE GROUND
	BURIED COMMUNICATIONS LINE		BURIED GAS LINE
	FIBER OPTIC CABLE		BURIED GAS SERVICE LINE
	BURIED TELEPHONE		FUEL LINE

PIPE FITTINGS

FITTING DESCRIPTION	SYMBOL			
	FLANGED	MECH	P.V.C.	SINGLE LINE
PROPOSED 11.25° BEND				
PROPOSED 22.5° BEND				
PROPOSED 45° BEND				
PROP. 45° BEND (TURN DOWN)				
PROP. 45° BEND (TURN UP)				
PROPOSED 90° BEND				
PROP. 90° BEND (TURN DOWN)				
PROP. 90° BEND (TURN UP)				
PROPOSED CROSS				
PROPOSED TEE				
PROP. TEE (TURN UP)				
PROP. TEE (TURN DOWN)				
PROPOSED WYE OR LATERAL				
FLANGE FITTING FRONT VIEW				
FLANGE (UNION) SIDE / TOP VIEW				
PROPOSED CHECK VALVE				
PROPOSED GATE VALVE SIDE VIEW				
PROPOSED GATE VALVE TOP VIEW				
PROPOSED BALL VALVE				
PROPOSED PLUG VALVE				
PROPOSED REDUCER				
PROP. CAP W/ RESTRAINED JOINT				
PROP. PLUG W/ RESTRAINED JOINT				

SYMBOL DESCRIPTION	SYM.	SYMBOL DESCRIPTION	SYM.
SANITARY AIR RELEASE VALVE		PRESSURE GAUGE	
CORP STOP		VENT AND FILTER	
COUPLING SIDE / TOP VIEW		MAG METER	
GRUVLOK FITTING		WATER LINE AIR RELEASE VALVE	
KAMLOK FITTING		WALL PIPE	

SYMBOL DESCRIPTION	SYM.
PROP. FIRE HYDRANT ASSEMBLY	
PROP. DOUBLE GATE VALVE	
PROPOSED GLOBE VALVE	
PROPOSED CAP AND BLOWOFF	
PROP. BACK FLOW PREVENTER	

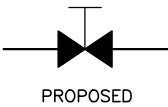
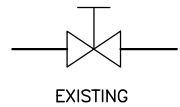
GENERAL SYMBOL LEGEND

SYMBOL DESCRIPTION	SYM.	SYMBOL DESCRIPTION	SYM.
BACTERIOLOGICAL SAMPLING POINT		MANHOLE	
PROPOSED GRADE		PIPE BREAK	
BOLLARD		GRADING FLOW	
EXISTING TREE		PIPE FLOW	
EXISTING SIGN		CLEAN OUT	
EXISTING GUARD RAIL		SANITARY MANHOLE	
EXISTING CULVERT		FIRE HYDRANT	
UTILITY POLES		SEWER VALVE	
CATCH BASIN		WATER VALVE	
STORM MANHOLE		WATER METER	

LINE WEIGHTS

EXISTING	SHADED SOLID LINES & TEXT DENOTE EXISTING EQUIPMENT, STRUCTURES AND WORK.
FUTURE	NON-SHADED DASHED LINES & TEXT DENOTE FUTURE EQUIPMENT, STRUCTURES AND WORK.
PROPOSED	NON-SHADED, BOLD, SOLID LINES & TEXT DENOTE PROPOSED EQUIPMENT, STRUCTURES AND WORK.

NOTE: FOR GRAPHICAL CLARIFICATION ON PLANS CONTAINING BACKGROUND AERIAL PHOTOS EXISTING ITEMS ARE SHOWN HOLLOW WHERE AS PROPOSED ARE SHOWN SOLID.



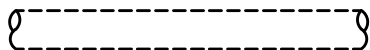
PIPE SYMBOLS



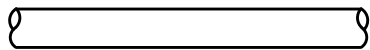
EXISTING PIPE BELOW GROUND



EXISTING PIPE ABOVE GROUND

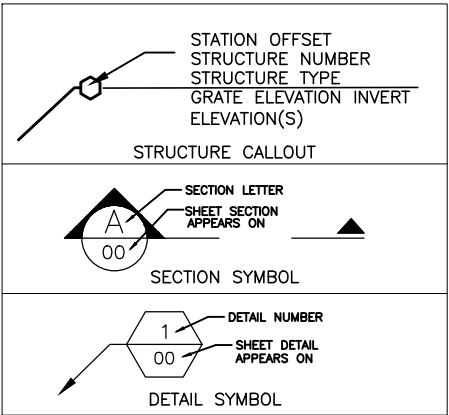


PROPOSED PIPE BELOW GROUND



PROPOSED PIPE ABOVE GROUND

TAGS



NOTE: THE LEGEND SHOWN HEREON IS REPRESENTATIVE OF ALL CAS DRAFTING STANDARDS AND IS NOT PROJECT SPECIFIC.

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 04/25/2023
Designed: OAR
Drawn: OSM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE. NO. LB0003110

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION
CIVIL & MECHANICAL ABBREVIATIONS
& LEGEND SHEET

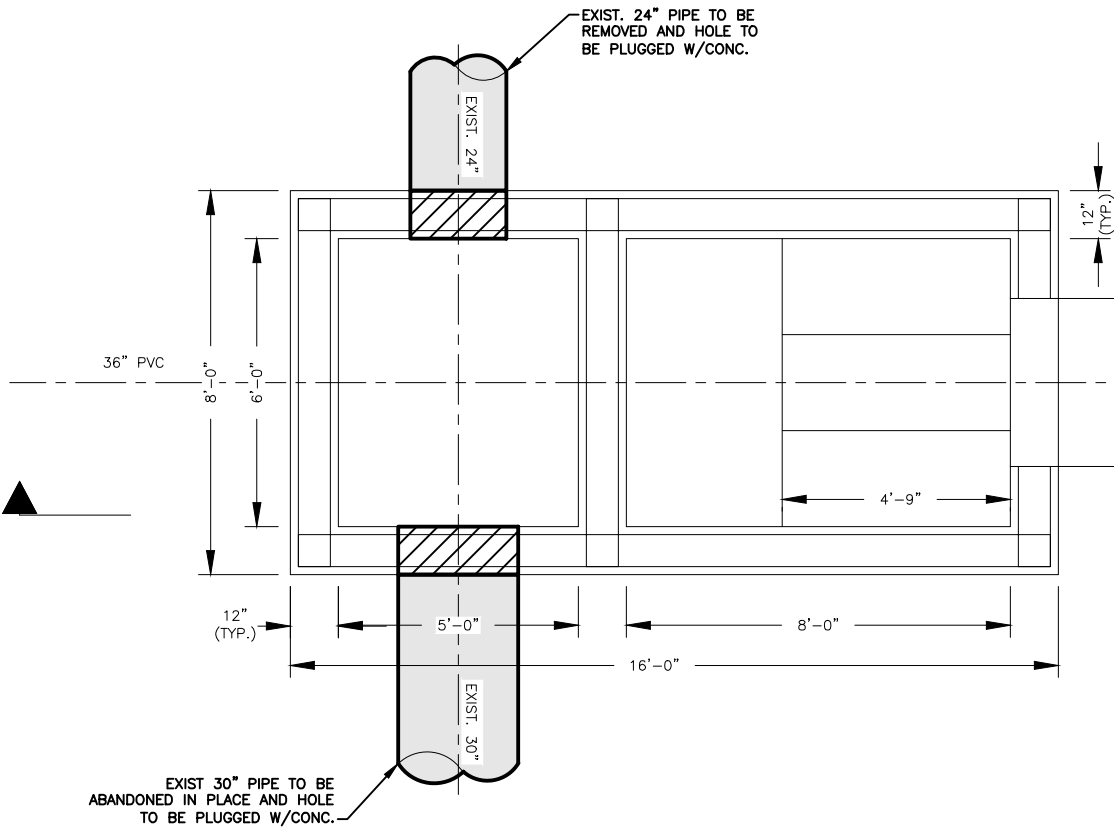
FILE NAME: 30-23-037-C-01-LEGEND.dwg
LAST SAVED: 11/01/23 - 11:39am
CAS PROJECT NUMBER
08-23-037

SHEET
C-01

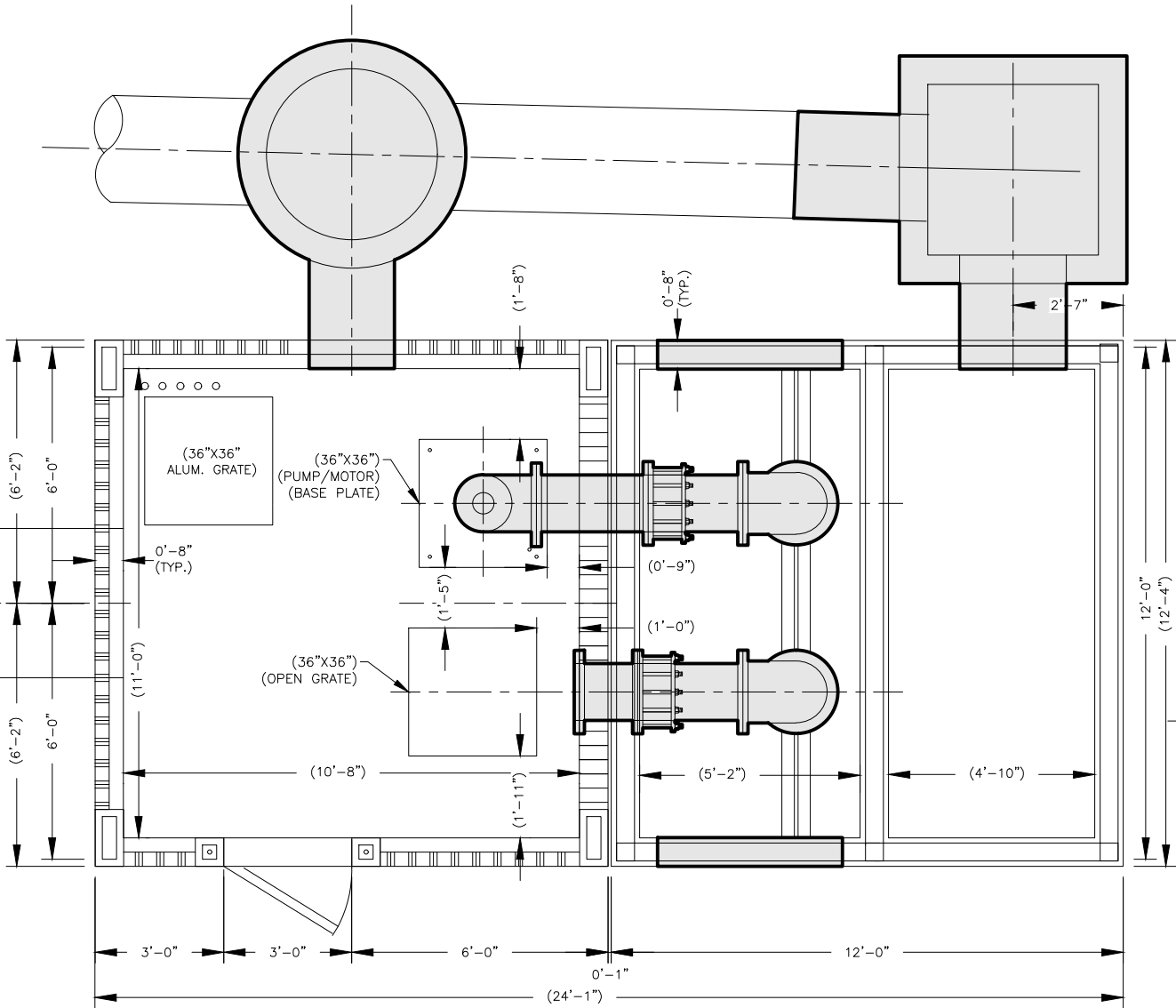
P:\Cities_Villages_Towns\Golden_Beach\08-23-037\08-23-037-C-02-DEMO.dwg, 3/14/2024 11:40:34 AM, amarufo, 1:2

LEGEND:

- EXIST. TO BE REMOVED
- TO BE PLUGGED W/CONC.



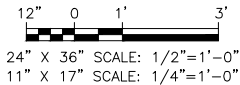
OIL/WATER SEPARATOR PLAN
(EXISTING)



PUMP HOUSE PLAN
(EXISTING)

FORCEMAIN CHAMBER PLAN

PUMP STATION PLAN VIEW



FOR CONSTRUCTION

NO.	DATE	REV PER OWNER UPDATE	OM
1	12/15/23	REV PER OWNER UPDATE	OM

Date:	04/25/2023
Designed:	OAR
Drawn:	OSM
Checked:	OAR

APPROVED BY:	ORLANDO A. RUBIO, P.E.
DATE:	
FLORIDA PROFESSIONAL ENGINEER NO.	48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

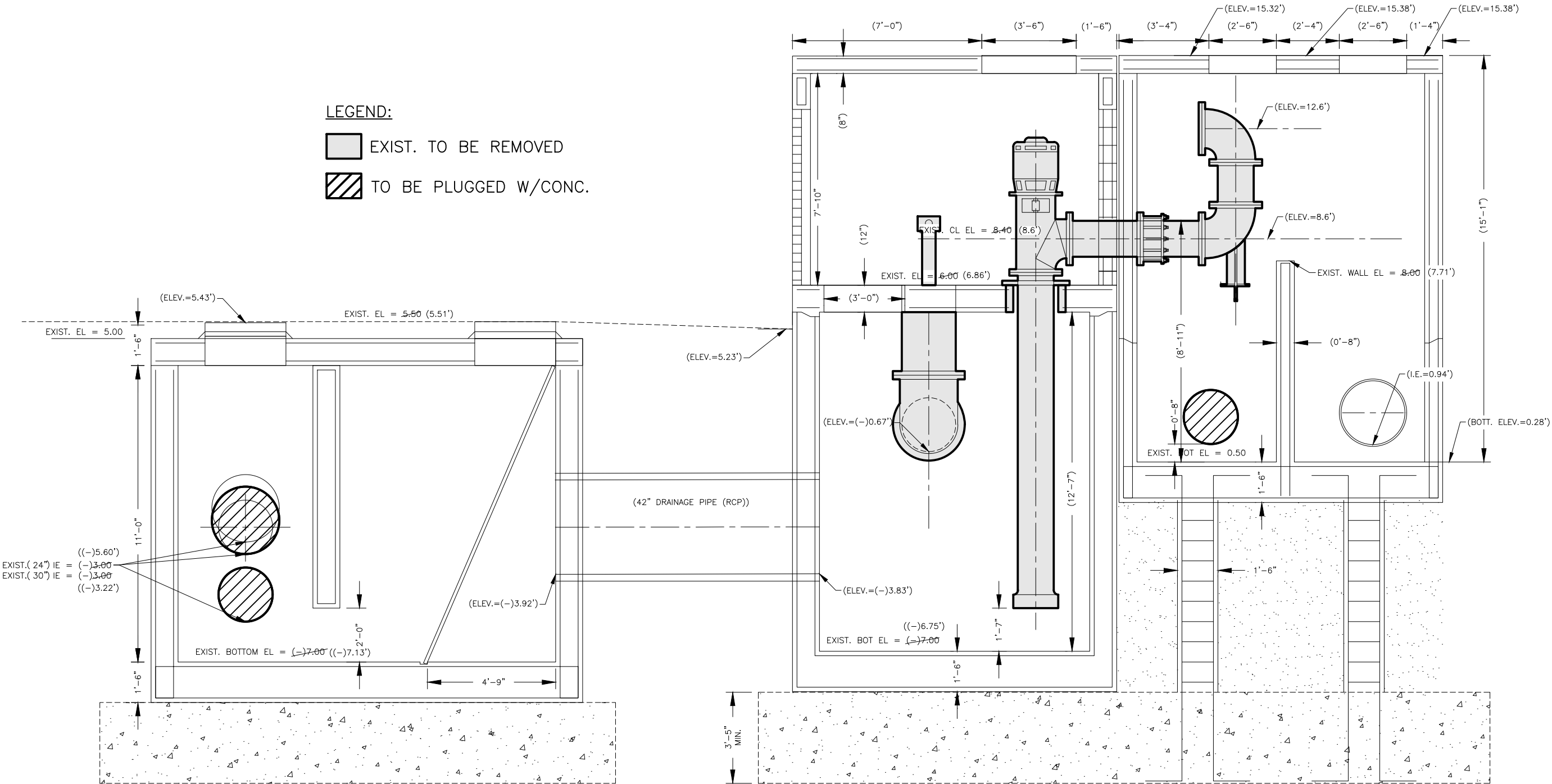
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION
DEMO PUMP PLAN VIEW

FILE NAME: 30-23-037-C-02-DEMO.dwg
LAST SAVED: 12/19/23 - 9:37am
CAS PROJECT NUMBER
08-23-037

SHEET
C-02

P:\Cities_Villages_Towns\Golden_Beach\08-23-037-03-DEM0.dwg, 5/14/2024 11:40:47 AM, omarufo, 1:2



OIL/WATER SEPARATOR PLAN
(EXISTING)

PUMP HOUSE PLAN
(EXISTING)

FORCEMAIN CHAMBER PLAN

SECTION C-C



FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 04/25/2023
Designed: OAR
Drawn: OSM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

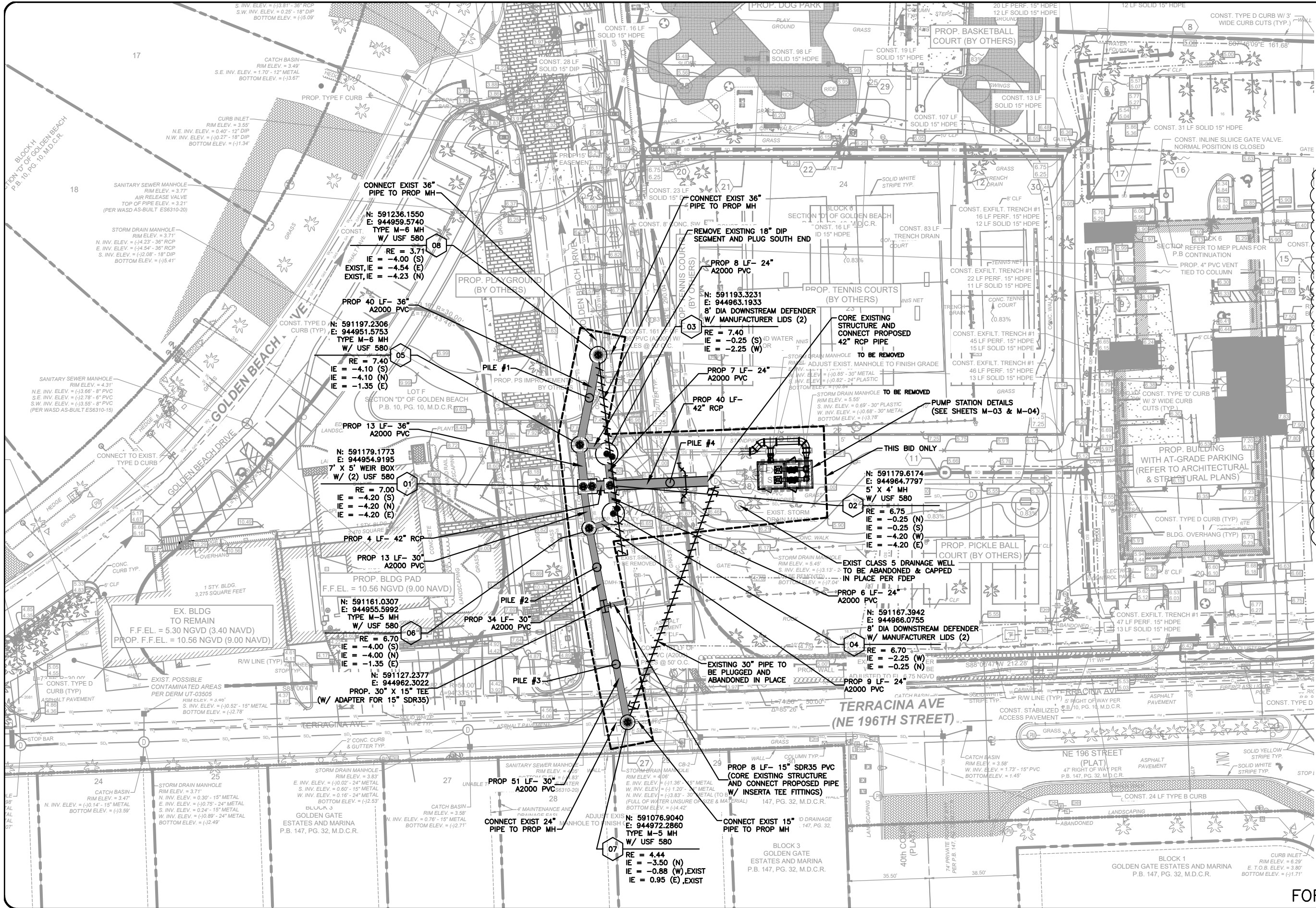
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION
DEMO PUMP SECTION VIEW

FILE NAME: 30-23-037-C-03-DEMO.dwg
LAST SAVED: 11/03/23 - 1:30pm
CIS PROJECT NUMBER
08-23-037

SHEET
C-03

P:\Cities_Villages_Towns\Golden_Beach\08-23-037-C-04-SITEPLAN.dwg, 3/1/2024 11:41:19 AM, onanurfo, i:2



- NOTES:**
1. THE EXISTENCE AND LOCATION OF ANY OF THE WATER AND/OR WASTEWATER LINES, VALVES, HYDRANTS, LIFT STATIONS, ETC., SHOWN ON THESE PLANS ARE NOT GUARANTEED BY THE MD-WASA OR CAS AND MUST BE VERIFIED IN THE FIELD.
 2. CONTRACTOR WILL OBTAIN A WATER USE PERMIT FOR ANY CONSTRUCTION DEWATERING AS NECESSARY FROM ANY WATER MANAGEMENT DISTRICT AND MDC-DELM. CONTRACTOR WILL OBTAIN A N.P.D.E.S. N.O.I. PERMIT FROM F.D.E.P. PRIOR TO COMMENCEMENT OF CONSTRUCTION AND COMPLY WITH THE MDC-DELM PERMIT.
 3. CONTRACTOR TO ADJUST WATER SERVICES IN DIRECT CONFLICT WITH PROPOSED DRAINAGE, TO BE COORDINATED WITH MDC-WASD.
 4. ALL STRUCTURES TO HAVE MIN. 18" SUMP FROM LOWEST PIPE INVERT: 24" WHERE BAFFLE IS CALLED OUT.

NO.	DATE	REVISION	BY
2	03/04/24	PER ADDENDUM NO. 3	OM
1	12/15/23	REV PER OWNER UPDATE	OM

Date:	04/25/2023
Designed:	OAR
Drawn:	OSM
Checked:	OAR

APPROVED BY:	ORLANDO A. RUBIO, P.E.
DATE	
FLORIDA PROFESSIONAL ENGINEER NO.	48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

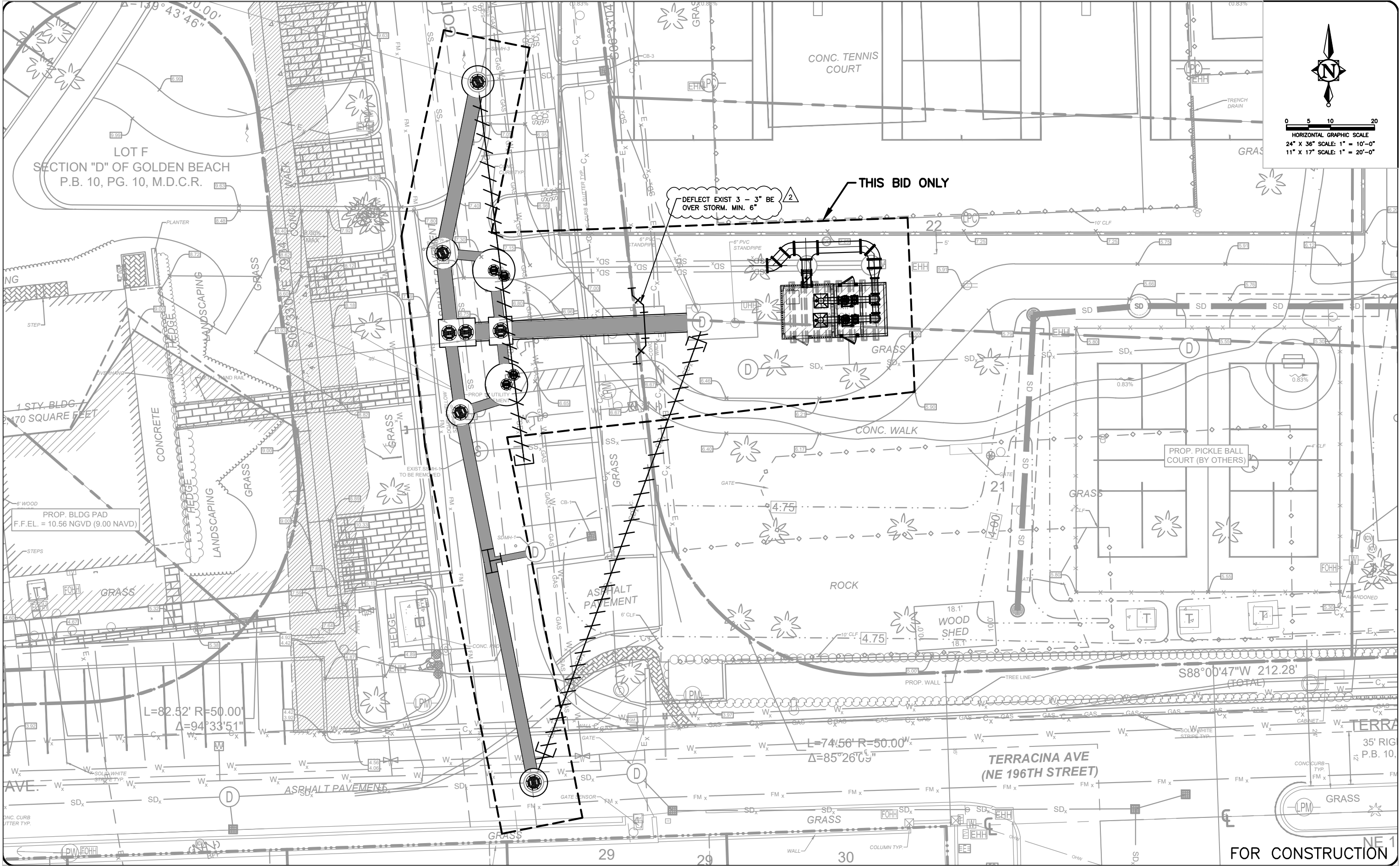
PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION
SITE PLAN

FILE NAME: 30-23-037-C-04-SITEPLAN.dwg
LAST SAVED: 03/04/24 - 11:00am
CAS PROJECT NUMBER
08-23-037

SHEET
C-04

P:\Cities_Villages_Towns\Golden_Beach\08-23-037_C-05-SITEPLAN.dwg, 3/4/2024 11:42:08 AM, mmarino, 1:2



NO.	DATE	REVISION	BY
2	03/04/24	PER ADDENDUM NO 3	OM
1	12/15/23	REV PER OWNER UPDATE	OM

Date:	04/25/2023
Designed:	OAR
Drawn:	OSM
Checked:	OAR

APPROVED BY:	ORLANDO A. RUBIO, P.E.
DATE	
FLORIDA PROFESSIONAL ENGINEER NO.	48265

CRAIG A. SMITH & ASSOCIATES

CONSULTING ENGINEERS-PLANNERS-SURVEYORS

21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

PREPARED FOR:

TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION

PUMP STATION SITE PLAN

FILE NAME: 30-23-037-C-05-SITEPLAN.dwg
LAST SAVED: 03/04/24 - 11:00am

GAS PROJECT NUMBER
08-23-037

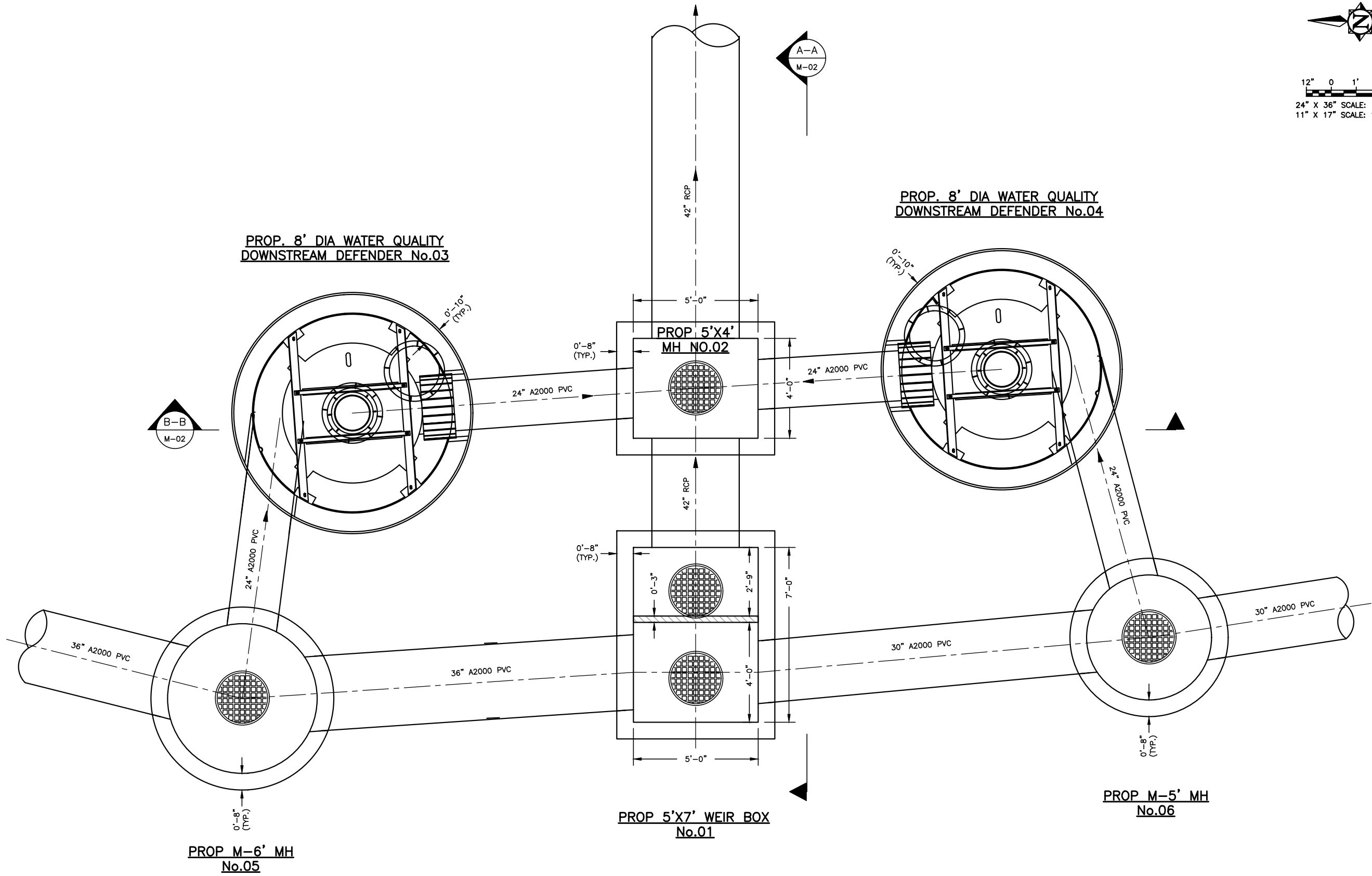
SHEET

C-05

SEE SHEET M-03 FOR CONTINUATION



12" 0 1' 3'
24" X 36" SCALE: 1/2"=1'-0"
11" X 17" SCALE: 1/4"=1'-0"



FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 04/25/2023
Designed: OAR
Drawn: OSM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES

CONSULTING ENGINEERS-PLANNERS-SURVEYORS

21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

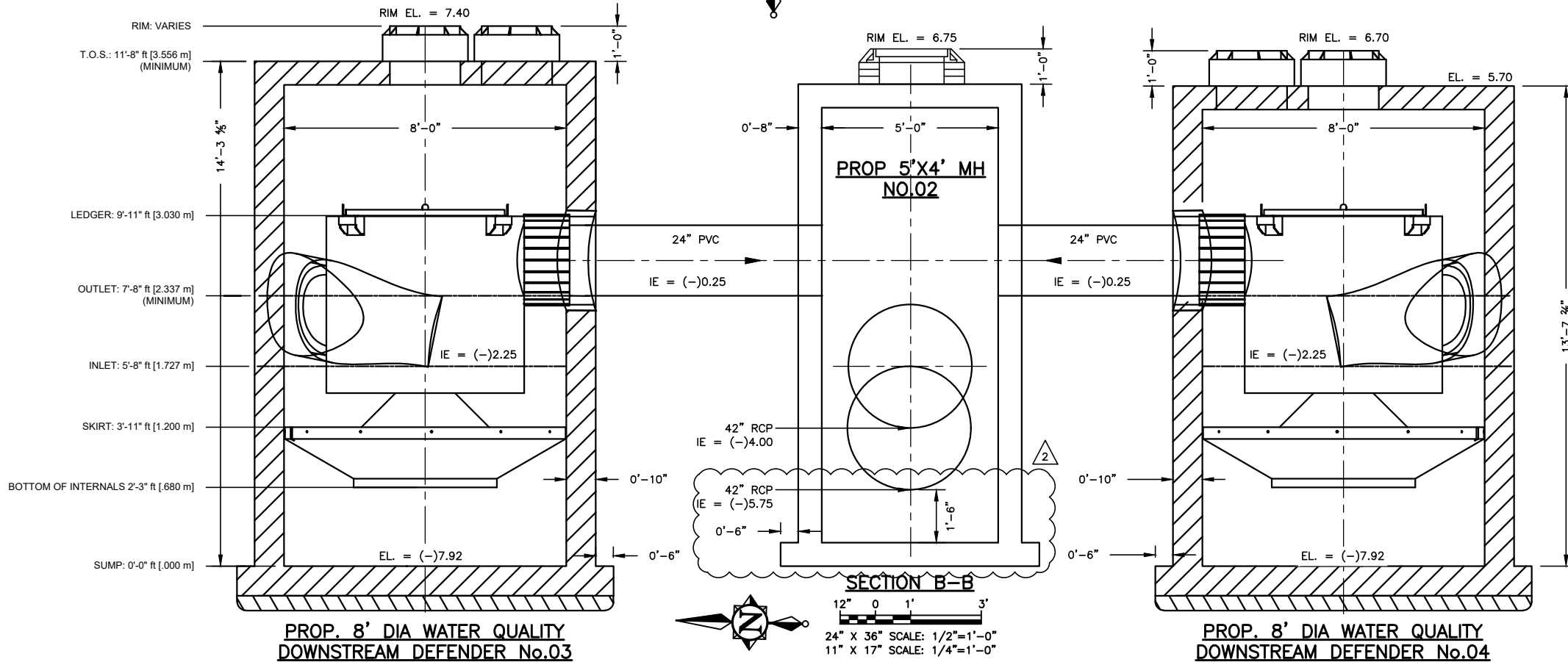
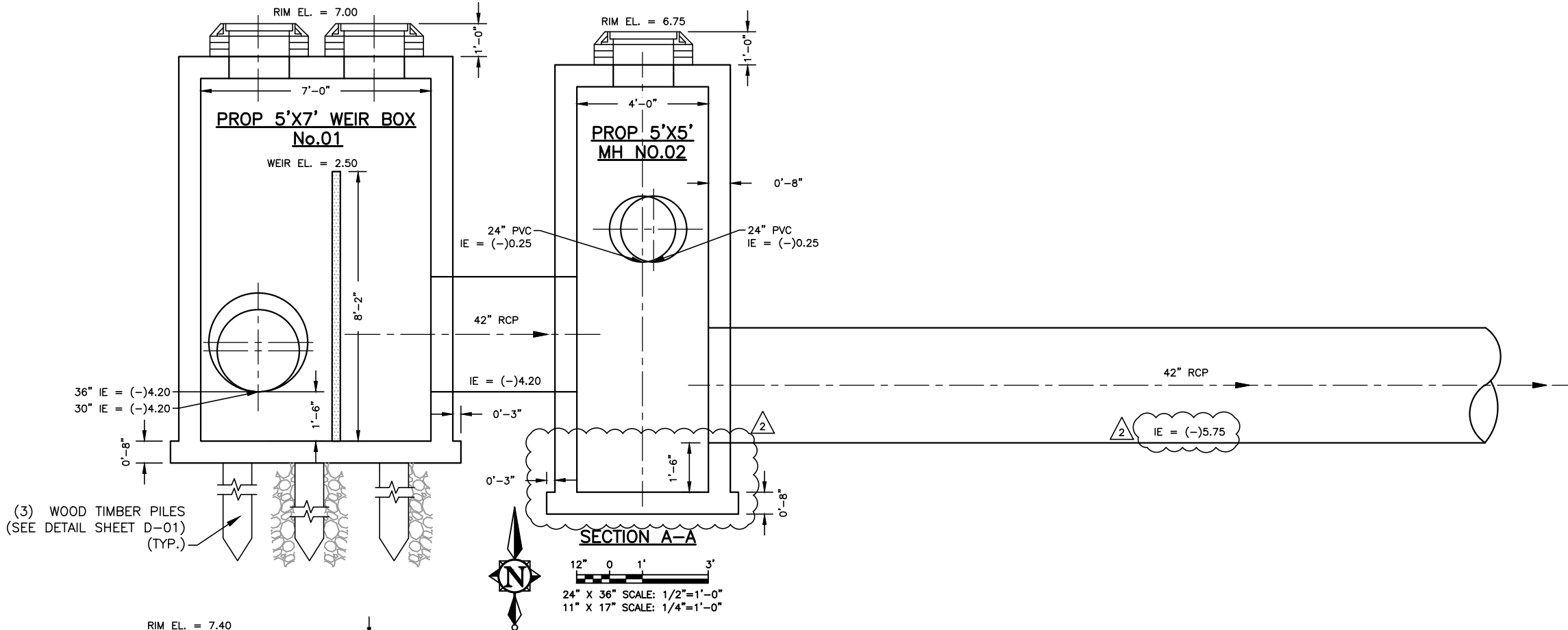
RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION
DOWNSTREAM DEFENDER
PLAN VIEW

FILE NAME: 40-23-037-M-01-PLAN.dwg
LAST SAVED: 12/20/23 - 8:49am
CAS PROJECT NUMBER
08-23-037

SHEET
M-01

P:\Cities_Villages_Towns\Golden_Beach\08-23-037\08-23-037-M-01-PLAN.dwg, 3/4/2024 11:42:59 AM, onanrifo, 1:2

P:\Cities_Villages_Towns\Golden_Beach\08-23-037-M-02-PLAN.dwg, 3/4/2024 12:04:20 PM, onamrfo, 1:2



- NOTES:**
1. THE EXISTENCE AND LOCATION OF ANY OF THE WATER AND/OR WASTEWATER LINES, VALVES, HYDRANTS, LIFT STATIONS, ETC., SHOWN ON THESE PLANS ARE NOT GUARANTEED BY THE MD-WASA OR CAS AND MUST BE VERIFIED IN THE FIELD.
 2. CONTRACTOR WILL OBTAIN A WATER USE PERMIT FOR ANY CONSTRUCTION DEWATERING AS NECESSARY FROM ANY WATER MANAGEMENT DISTRICT AND MDC-DERM.
 3. CONTRACTOR WILL OBTAIN A N.P.D.E.S. N.O.I. PERMIT FROM F.D.E.P. PRIOR TO COMMENCEMENT OF CONSTRUCTION AND COMPLY WITH THE MDC-DERM PERMIT.
 4. CONTRACTOR TO ADJUST WATER SERVICES IN DIRECT CONFLICT WITH PROPOSED DRAINAGE, TO BE COORDINATED WITH MDC-WASD.
 5. ALL STRUCTURES TO HAVE MIN. 18" SUMP FROM LOWEST PIPE INVERT: 24" WHERE BAFFLE IS CALLED OUT.

FOR CONSTRUCTION

NO.	DATE	REVISION	BY
2	03/04/24	PER ADDENDUM NO 3	OM

Date: 04/25/2023
Designed: OAR
Drawn: OSM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION
DOWNSTREAM DEFENDER
SECTION VIEW

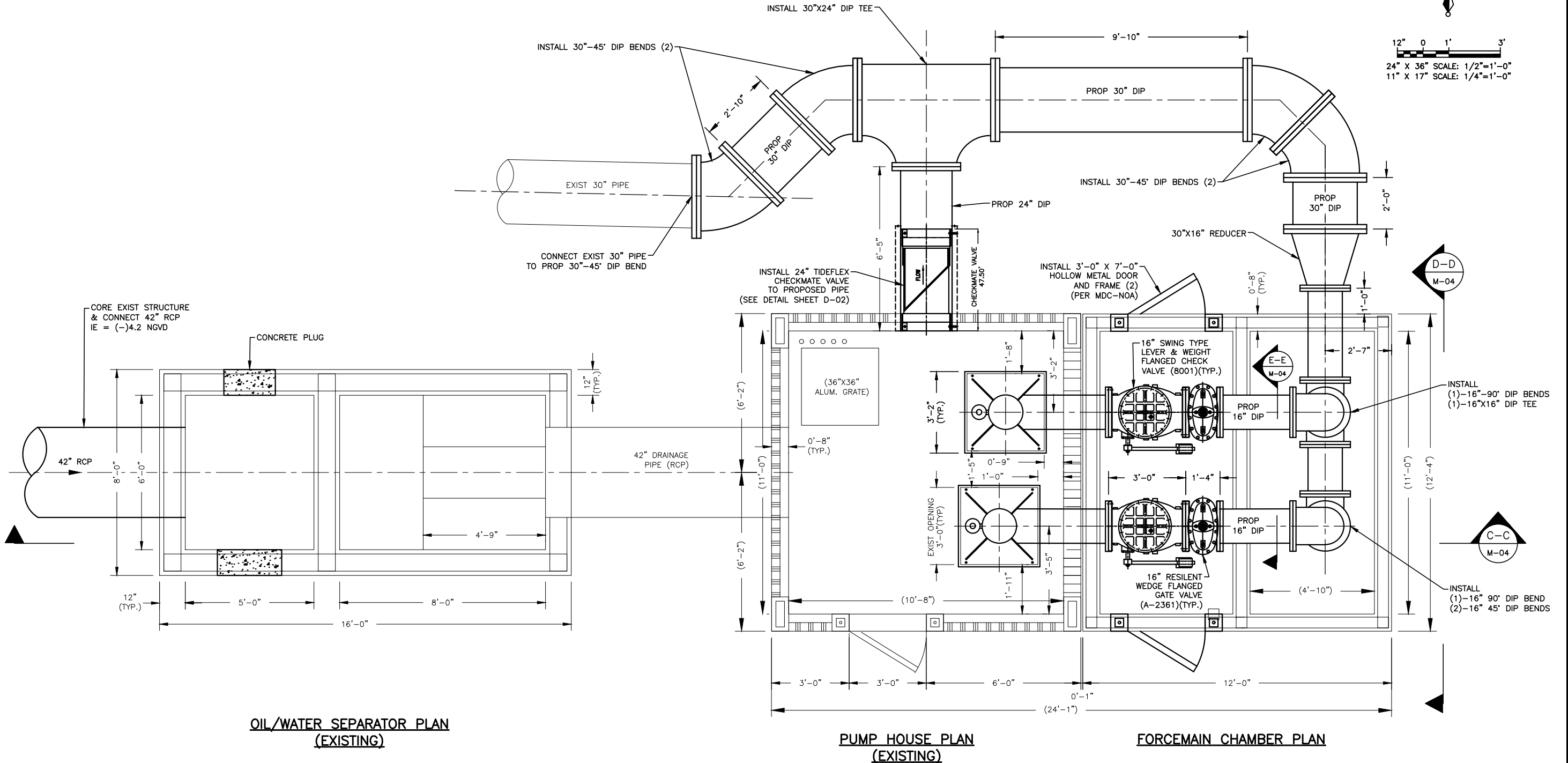
FILE NAME: 40-23-037-M-02-PLAN.dwg
LAST SAVED: 03/04/24 - 12:03pm
CAS PROJECT NUMBER
08-23-037

SHEET
M-02

SEE SHEET M-04 FOR CONTINUATION

P:\Cities_Villages_Towns\Golden_Beach\08-23-037-M-03-PLAN.dwg, 3/4/2024 11:45:06 AM, onarufa, 1:2

SEE SHEET M-01 FOR CONTINUATION



FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 04/25/2023
Designed: OAR
Drawn: OSM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

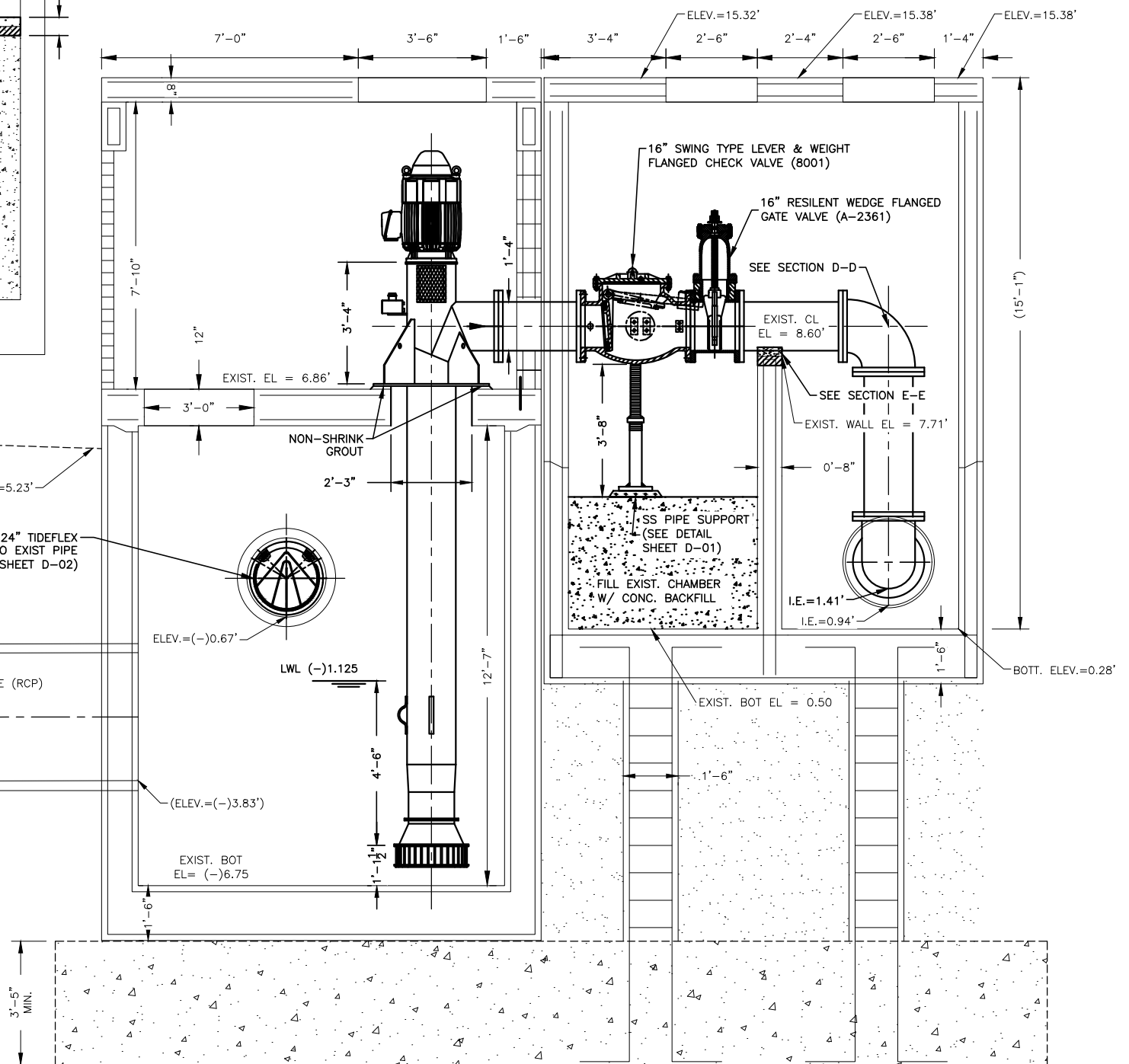
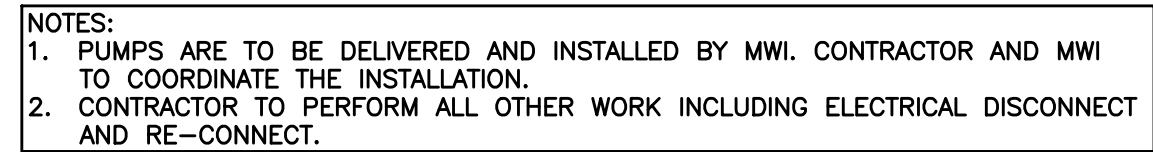
CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

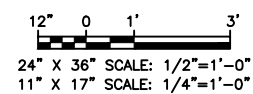
RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION
PUMP STATION PLAN VIEW

FILE NAME: 40-23-037-M-03-PLAN.dwg
LAST SAVED: 12/19/23 - 1:55pm
CAS PROJECT NUMBER
08-23-037

SHEET
M-03

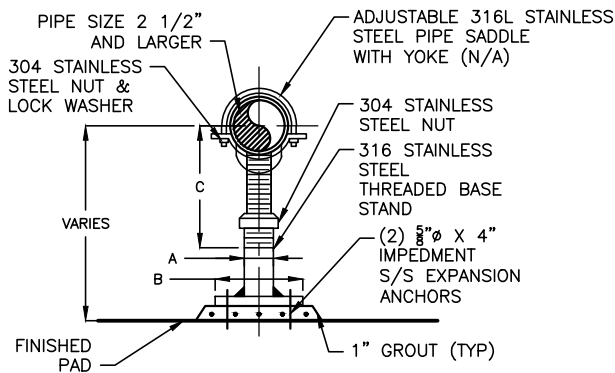


FORCEMAIN CHAMBER PLAN



SHEET
M-04

FOR CONSTRUCTION]



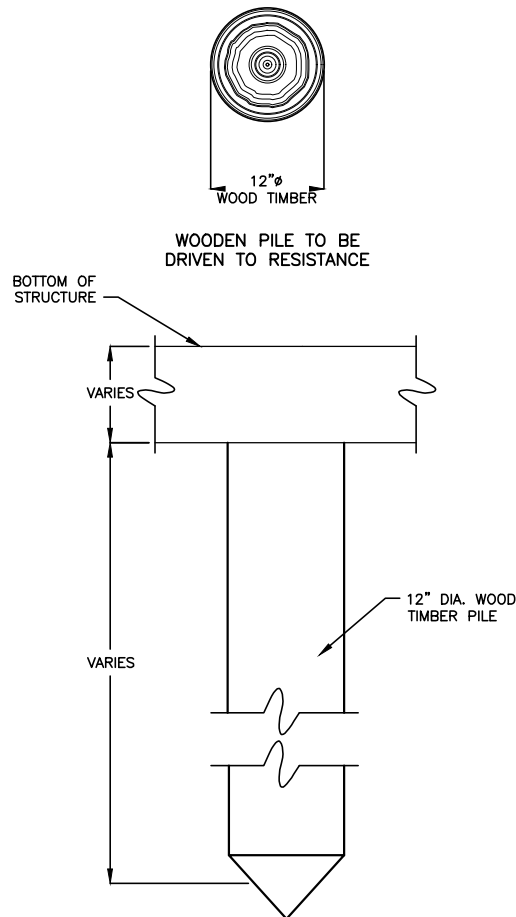
ALL STAINLESS STEEL
STANCHION PIPE SUPPORT DETAIL
SCALE: N.T.S.

S.S. STANCHION PIPE TABLE

PIPE DIA.	A	B	C	
			MIN.	MAX.
2-1/2	2-1/2	9	8	13
3	2-1/2	9	8-1/4	13-1/4
3-1/2	2-1/2	9	8-1/2	13-1/2
4	3	9	9-1/4	14
5	3	9	10	14-3/4
6	3	9	10-1/2	15-1/4
8	3	9	11-3/4	16-1/2
10	3	9	13-1/2	18-1/4
12	3	9	15	19-3/4
14	4	11	16-1/4	20-3/4
16	4	11	17-3/4	22-1/4
18	6	13-1/2	19-1/2	24
20	6	13-1/2	21	25-1/2
24	6	13-1/2	23-3/4	28-1/4

NOTES:

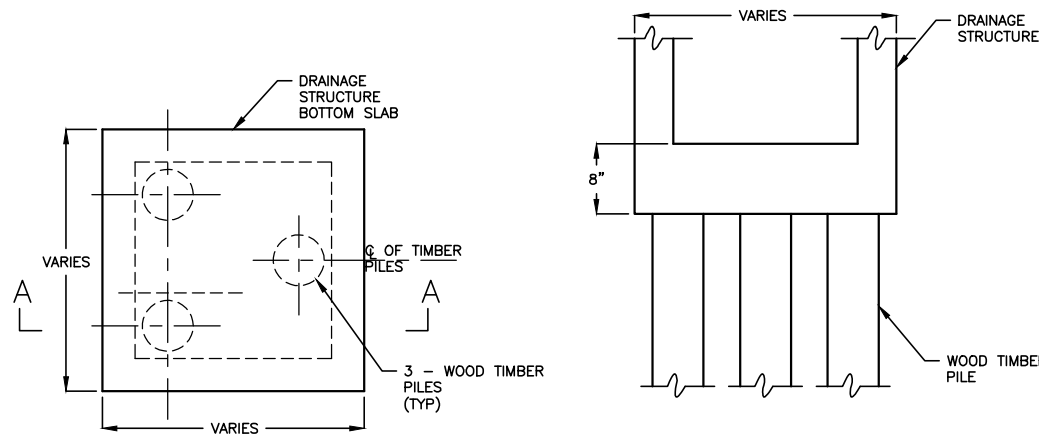
1. PROVIDE NEOPRENE WAFFLE ISOLATION PAD SIMILAR TO MASON TYPE "W" OR KORFUND KORPAD 40, UNDER SUPPORT FOOT WHEN PIPING IS ISOLATED OR SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.
2. FOR BASE, HEIGHT, AND FLANGE DIMENSIONS. SEE TABLE ABOVE.



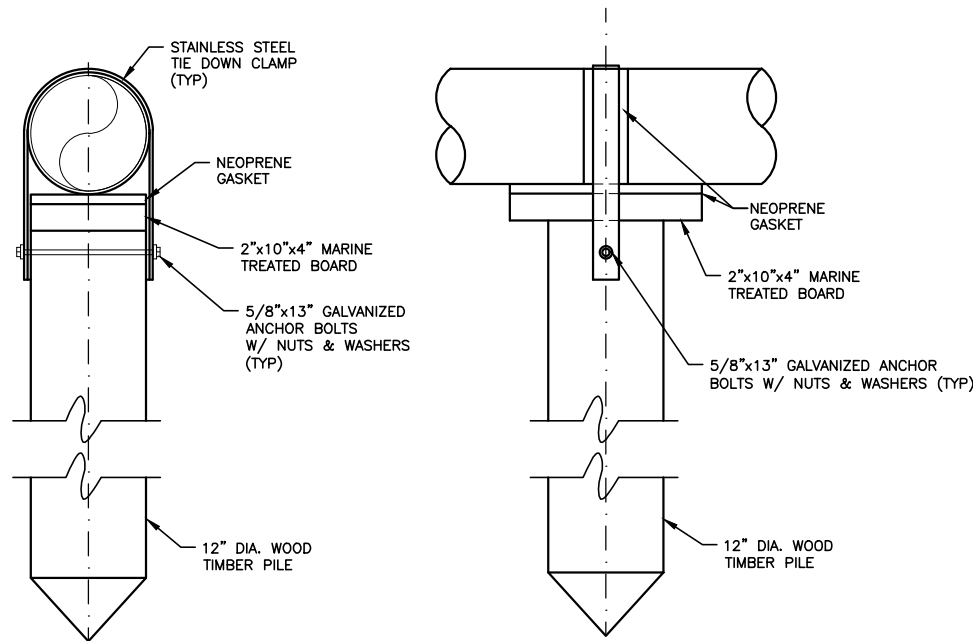
TYP. WOOD PILE DETAIL
SCALE: N.T.S.

NOTES :

- 1 ALL CONCRETE STRUCTURE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.



DRAINAGE STRUCTURES ON
THREE WOOD TIMBER PILES
TYPICAL TIMBER PILE DETAILS FOR
DRAINAGE STRUCTURES



PIPE SUPPORT TIMBER PILE DETAIL
SCALE: N.T.S.

NOTES:

1. ALL WOOD MUST BE MARINE TREATED.
2. PILES TO BE PLACED EVERY 40' +/-

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 04/25/2023
Designed: OAR
Drawn: OSM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

CRAIG A. SMITH & ASSOCIATES
CONSULTING ENGINEERS-PLANNERS-SURVEYORS
21045 COMMERCIAL TRAIL
BOCA RATON, FLORIDA 33486
(561) 314-4445
CERTIFICATE NO. LB0003110

PREPARED FOR:
TOWN OF GOLDEN BEACH
MIAMI DADE COUNTY, FLORIDA

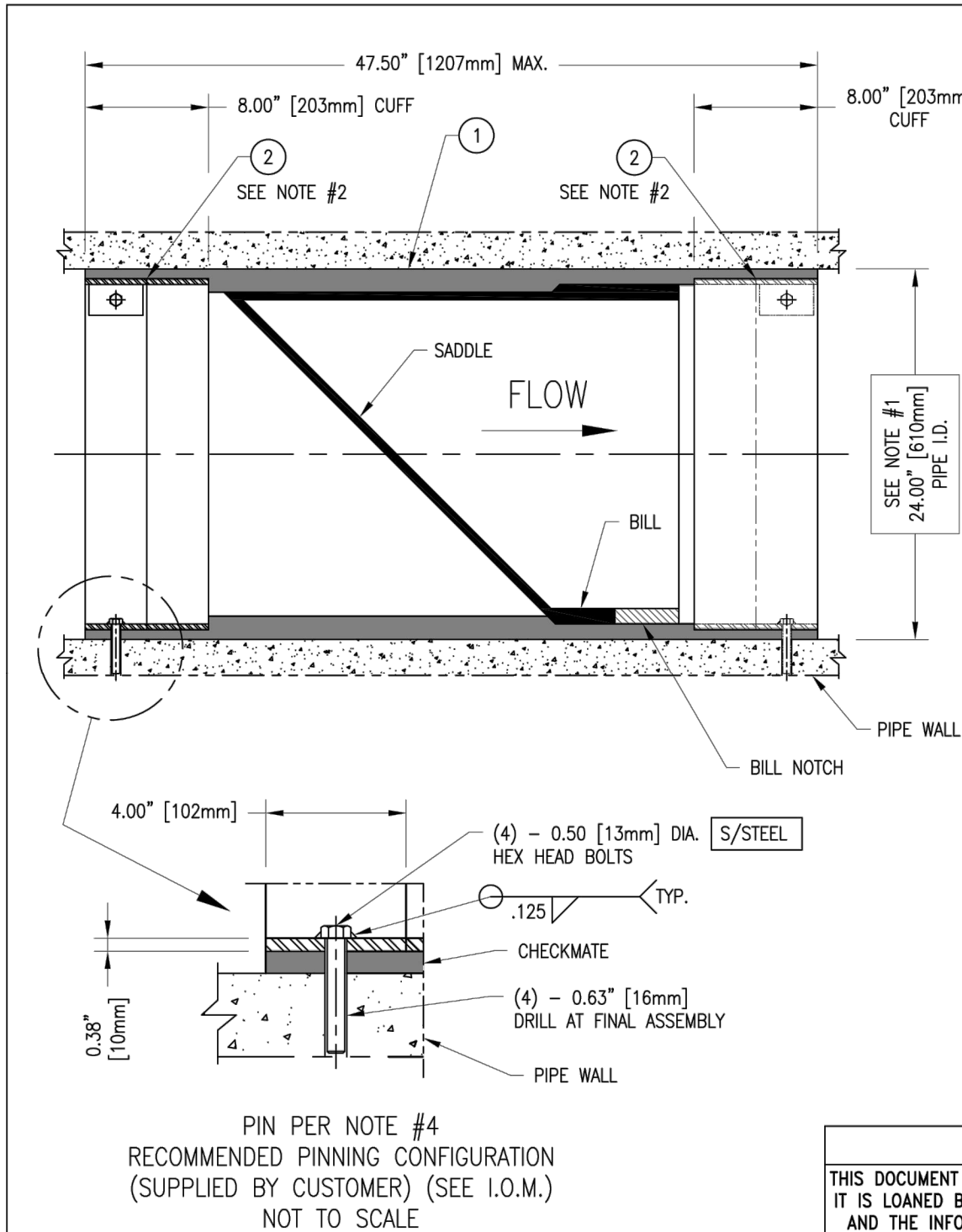
RETROFIT OF TWEDDLE PARK
STORMWATER PUMP STATION
STANDARD DETAILS

FILE NAME: 50-23-037-D-01-DTLS.dwg
LAST SAVED: 11/16/23 - 9:54am
CAS PROJECT NUMBER
08-23-037

SHEET
D-01

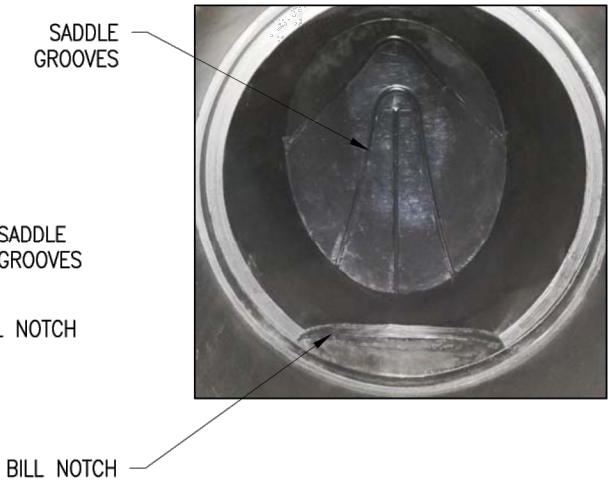
P:\Cities_Villages_Towns\Golden_Beach\08-23-037\01-DTLS.dwg, 5/4/2024 11:45:31 AM, omarinfo, 1:2

P:\Cities_Villages_Towns\Golden_Beach\08-23-037\08-23-037-D-02-DTLS.dwg, 5/4/2024 11:59:17 AM, mmarino, 1:2



ITEM	QTY.	DESCRIPTION	MAT'L
1	1	ULTRAFLEX CHECKMATE CHECK VALVE	MUST BE SUPPLIED
2	2	CLAMP	MUST BE SUPPLIED

- NOTES:
1. PIPE INSIDE DIAMETER - MUST BE SUPPLIED
(MINIMUM ALLOWABLE PIPE DIAMETER - 23.25 INCHES)
 2. CLAMP INSTALLED IN UPSTREAM OR DOWNSTREAM CUFF
DEPENDING ON INSTALLATION ORIENTATION
 3. MAXIMUM ALLOWABLE BACK PRESSURE - 45.0 FEET
 4. IT IS RECOMMENDED TO BOLT OR PIN CHECKMATE
TO PIPE AS SHOWN, 4 PLACES 90° APART



PRELIMINARY DRAWING
NOT FOR APPROVAL PURPOSES

* PATENT PENDING *

PROPRIETARY NOTICE

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF TIDEFLEX TECHNOLOGIES. IT IS LOANED BY TIDEFLEX TECHNOLOGIES, SUBJECT TO THE CONDITIONS THAT IT AND THE INFORMATION EMBODIED THEREIN SHALL BE USED ONLY FOR RECORD AND REFERENCE PURPOSES. IT SHALL NOT BE USED OR CAUSED TO BE USED IN ANY WAY PREJUDICIAL TO THE INTERESTS OF TIDEFLEX TECHNOLOGIES. IT SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR PART, OR DISCLOSED TO ANYONE WITHOUT THE DIRECT WRITTEN PERMISSION OF TIDEFLEX TECHNOLOGIES AND SHALL BE RETURNED UPON REQUEST.

OPPORTUNITY No: XXXXX	SALES ORDER No: TXX-XXXX
Tideflex Technologies A Division of Red Valve Company, Inc.	600 N. BELL AVE. CARNEGIE, PA. 15106 info@tideflex.com 412.279.0044 fax 412.279.5410
TT PRODUCT: 24" ULTRAFLEX CHECKMATE CHECK VALVE	
TT PART No: CMCBUF-240-APPROVAL	
DR. BY: TLM	DATE: 2-6-17
CHKD. BY:	DATE:
CAD SCALE: FULL	REV
PLOT SCALE: 1 = 1	DWG No: TTS-XXXX

CUSTOMER: XXX
ORDER No: XXX

FOR CONSTRUCTION

NO.	DATE	REVISION	BY

Date: 04/25/2023
Designed: OAR
Drawn: OSM
Checked: OAR

APPROVED BY: ORLANDO A. RUBIO, P.E.
DATE: _____
FLORIDA PROFESSIONAL ENGINEER NO. 48265

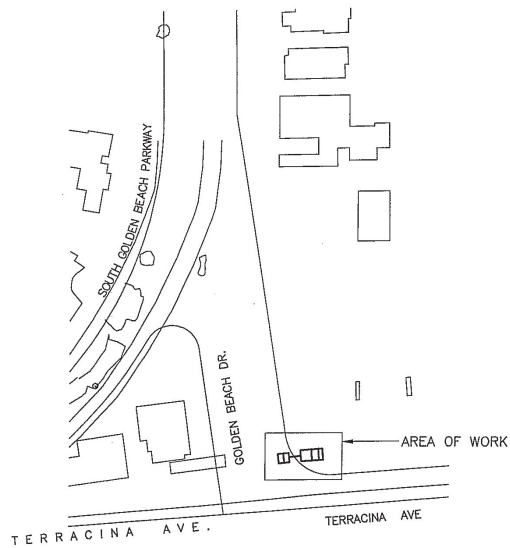
CRAIG A. SMITH & ASSOCIATES CONSULTING ENGINEERS-PLANNERS-SURVEYORS 21045 COMMERCIAL TRAIL BOCA RATON, FLORIDA 33486 (561) 314-4445 CERTIFICATE NO. LB00031110
--

PREPARED FOR: TOWN OF GOLDEN BEACH MIAMI DADE COUNTY, FLORIDA
--

RETROFIT OF TWEDDLE PARK STORMWATER PUMP STATION CHECK VALVE DETAILS
--

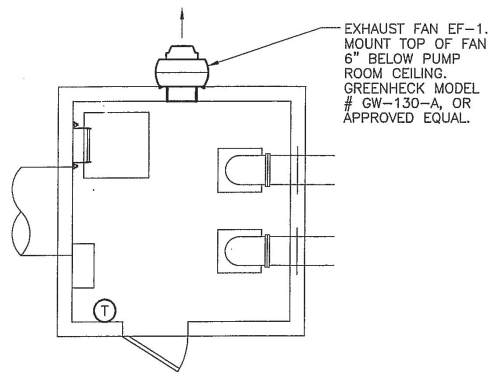
FILE NAME: 50-23-037-D-02-DTLS.dwg LAST SAVED: 11/01/23 - 10:00am
CAS PROJECT NUMBER 08-23-037

SHEET D-02



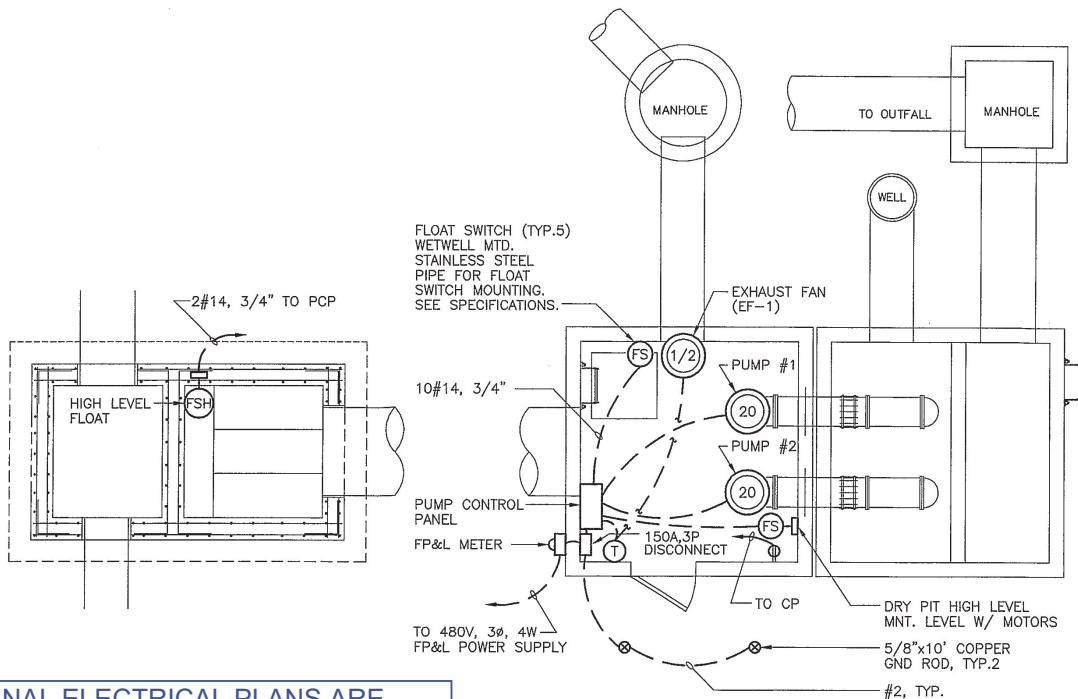
KEY PLAN
N.T.S.

PUMP STATION'S ORIGINAL ELECTRICAL PLANS ARE PROVIDED HERE FOR GUIDANCE ONLY. CAS DOES NOT WARRANT NOR GUARANTEE THE ACCURACY OF THE INFORMATION ON THESE PLANS PREPARED BY OTHERS AS THE STATION HAS UNDERGONE REPAIRS OVER THE YEARS.

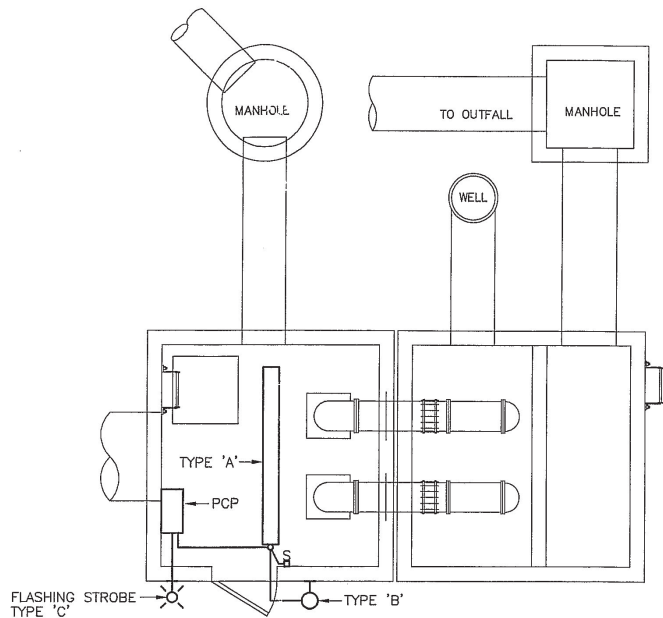


PUMP STATION
HVAC PLAN
SCALE: 1/4"=1'-0"

LIGHTING FIXTURE SCHEDULE				
TYPE	WATT	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
A	160	8'-0" LONG, VAPOR-TIGHT, GASKETED FLUORESCENT FIXTURE W/4-40 WATT R.S. LAMPS, NON-CORROSIVE NON-METALLIC HOUSING, HIGH IMPACT ACRYLIC LENS SUITABLE FOR WET LOCATIONS, FULLY ENCLOSED WIRING, 120V, ESB.	COLUMBIA HOLOPHANE DAY-BRITE	LUN240-8-WL 7200812HODR8P18 VR28W120
B	50	WALL MOUNTED HID LIGHTING FIXTURE W/50 WATT H.P.S. LAMP, WEATHERPROOF AND GASKETED DIE-CAST ALUMINUM HOUSING, DARK BRONZE FINISH, PRISMATIC POLYCARB. REFRACTOR, 120V, ESB.	GENERAL ELECTRIC DAY-BRITE	OWL0551NWLARD8 FFW50HSCPC-120
C	-	ALARM STROBE LIGHT	EDWARDS	ADAPTABEACON 47 SERIES



PUMP STATION
POWER PLAN
SCALE: 1/4"=1'-0"



PUMP STATION
LIGHTING PLAN
SCALE: 1/4"=1'-0"

LEGEND

PLAN SYMBOLS

- CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.
- CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
- HOME RUN TO PANELBOARD. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. HASH MARKS INDICATE NUMBER OF #12 AWG. CONDUCTORS. NO HASH MARKS INDICATE 2 #12 CONDUCTORS.
- ELECTRIC A.C. MOTOR, NUMBER INDICATES HORSEPOWER
- FLOAT SWITCH

CONTROL & SINGLE LINE DIAGRAM SYMBOLS

- NON-FUSIBLE DISCONNECT SWITCH, 30A, 3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS
- MOLDED CASE CIRCUIT BREAKER
- 3-POSITION SELECTOR SWITCH
- REMOTE TERMINAL BLOCK POINT
- NORMALLY OPEN CONTACT
- NORMALLY OPEN, TIMED TO CLOSE CONTACT
- FLOAT SWITCH, NORMALLY OPEN
- PRESSURE SWITCH, NORMALLY OPEN
- ALARM INDICATING LIGHT
- PUMP FAIL TIMER
- NORMALLY CLOSED CONTACT
- NORMALLY CLOSED, TIMED TO OPEN CONTACT
- FLOAT SWITCH, NORMALLY CLOSED
- RUN INDICATING LIGHT
- TIMING RELAY

ABBREVIATIONS

- | | | | |
|-----|---------------------------|-----|--------------------|
| A | AMPERES | PB | PULLBOX |
| AIC | AMPS INTERRUPTING CURRENT | PCP | PUMP CONTROL PANEL |
| ATS | AUTOMATIC TRANSFER SWITCH | PNL | PANEL |
| CP | CONTROL PANEL | SH | SHIELDED |
| GND | GROUND | TYP | TYPICAL |
| GRS | GALVANIZED RIGID STEEL | V | VOLTS |
| MCC | MOTOR CONTROL CENTER | W | WIRE |
| MTD | MOUNTED | W/ | WITH |
| P | POLE | WP | WEATHERPROOF |
| | | ø | PHASE |

NOTES

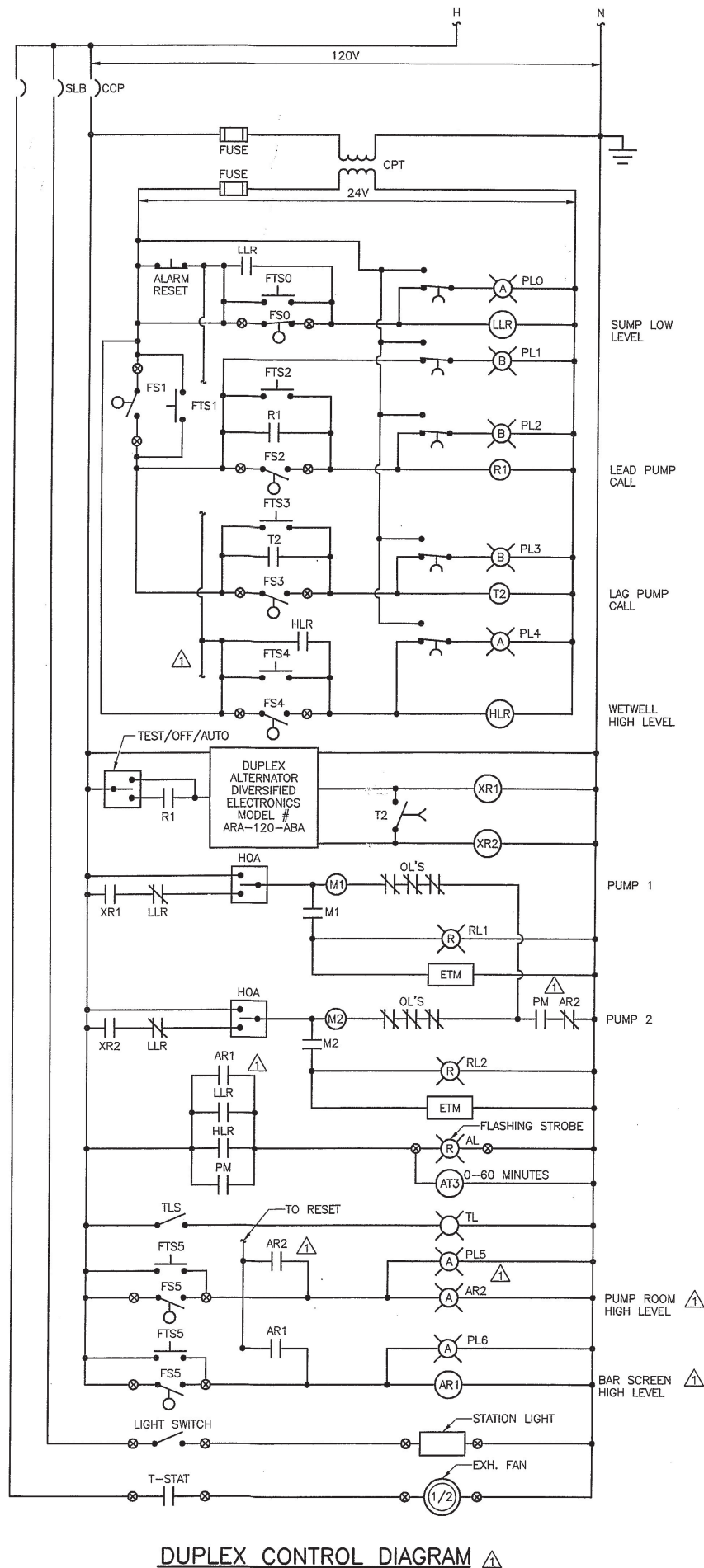
- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO THE MECHANICAL DRAWINGS & APPROVED MANUFACTURER'S SHOP DRAWINGS FOR THE EXACT LOCATION OF ALL EQUIPMENT.
- ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE & LOCAL CODES.
- ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250-95 OF THE NATIONAL ELECTRIC CODE (UNLESS OTHERWISE NOTED).
- SEE CIVIL DRAWINGS FOR ADDITIONAL SITE PLAN INFORMATION.

WILLIAMS, HATFIELD & STONER, INC.
CONSULTING ENGINEERS • PLANNERS • SURVEYORS



TOWN OF GOLDEN BEACH
STORMWATER IMPROVEMENT
PUMP STATION
PLAN SHEET

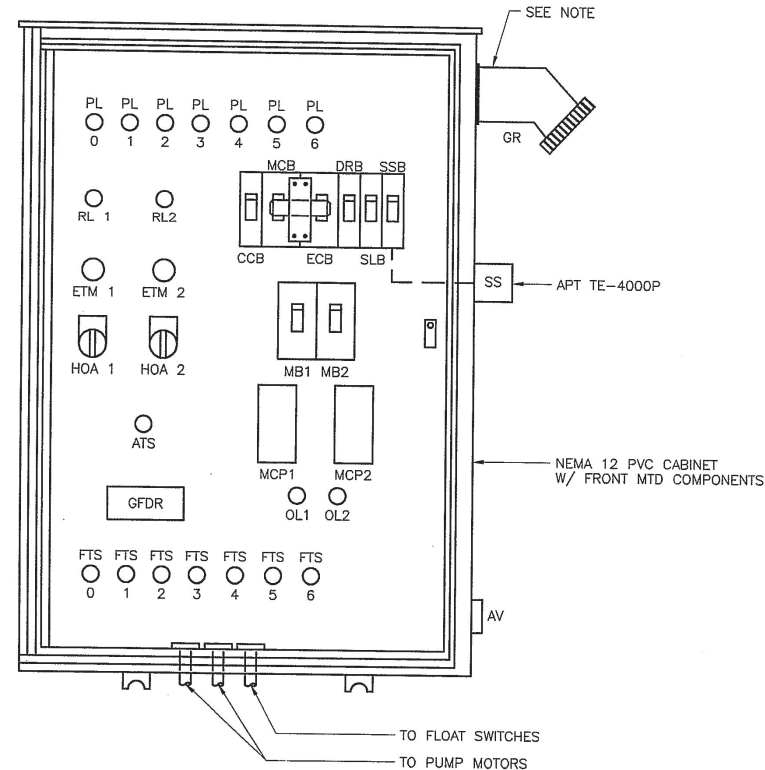
PROJECT No.
4084.05
SHEET No.
E-1



DUPLEX CONTROL DIAGRAM

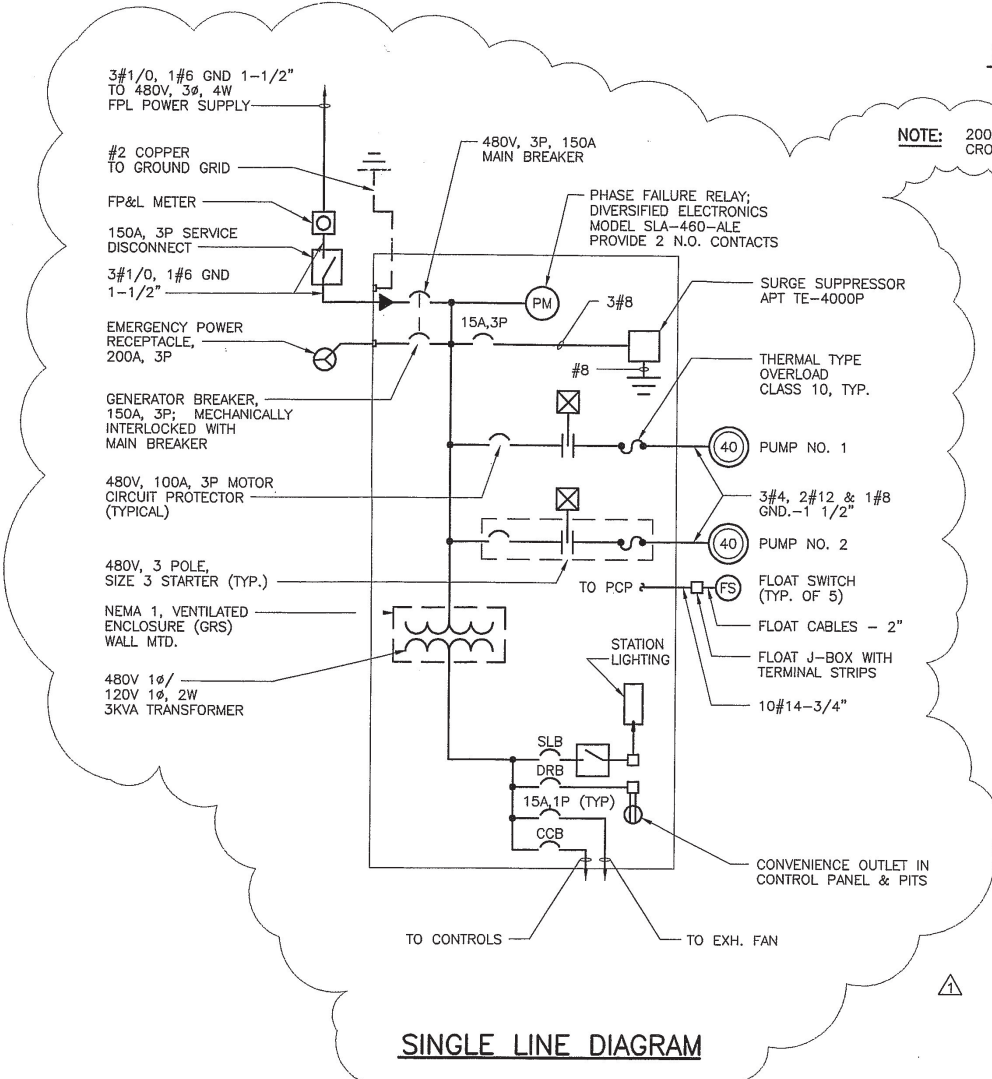
CONTROL PANEL ABBREVIATIONS

AB	ALARM BELL
AL	ALARM LIGHT
ASB	ALARM SILENCER BELL
ATS	ALTERNATOR TEST SWITCH
AV	AIR VENT
CCB	CONTROL CIRCUIT BREAKER
CPT	CONTROL POWER TRANSFORMER
DR	DUPLEX RECEPTACLE
DRB	DUPLEX RECEPTACLE BREAKER
ECB	EMERGENCY CIRCUIT BREAKER
ETM	ELAPSED TIME METER
F	FUSE
FL	FLASHER
FS	FLOAT SWITCH
FTS	FLOAT TEST SWITCH
GFDR	GROUND FAULT DUPLEX RECEPTACLE
GND	GROUND
GR	GENERATOR RECEPTACLE
GRS	GALVANIZED RIGID STEEL
HOA	HANDS-OFF-AUTOMATIC SELECTOR
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MS	MOTOR STARTER
N	NEUTRAL
OL	OVERLOAD HEATERS
PL	LEVEL INDICATORS (PUSH-TO-TEST)
PM	PHASE MONITOR
R	PUMP RUN INDICATORS (PUSH-TO-TEST)
SLB	STATION LIGHTING BREAKER
SS	SURGE SUPPRESSOR
SSB	SURGE SUPPRESSOR BREAKER
TL	TROUBLE LIGHT (100W INCANDESCENT)
TLS	TROUBLE LIGHT SWITCH
TYP	TYPICAL



PCP FRONT VIEW

N.T.S.



SINGLE LINE DIAGRAM

NOTE: 200A GENERATOR RECEPTACLE SHALL BE CROUSE-HINDS MODEL # *
* CONTRACTOR TO VERIFY MODEL # WITH OWNER

PUMP STATION'S ORIGINAL ELECTRICAL PLANS ARE PROVIDED HERE FOR GUIDANCE ONLY. CAS DOES NOT WARRANT NOR GUARANTEE THE ACCURACY OF THE INFORMATION ON THESE PLANS PREPARED BY OTHERS AS THE STATION HAS UNDERGONE REPAIRS OVER THE YEARS.

WILLIAMS, HATFIELD & STONER, INC.
CONSULTING ENGINEERS • PLANNERS • SURVEYORS



TOWN OF GOLDEN BEACH
STORMWATER IMPROVEMENT
PUMP STATION
CONTROL DIAGRAMS & DETAILS

PROJECT No.
4084.05
SHEET No.
E-2