



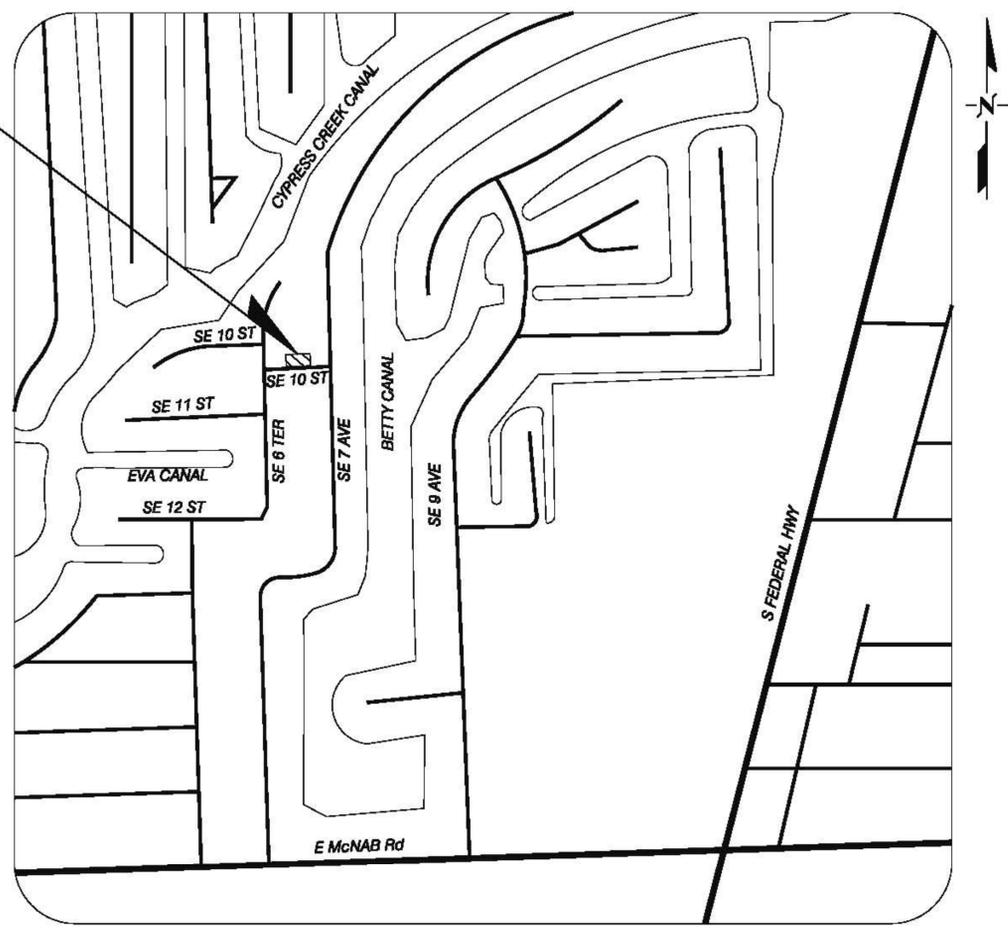
PUMP STATION #65 REHABILITATION

CITY OF POMPANO BEACH

1201 NE 5th AVE - POMPANO BEACH, FL 33060

PROJECT NO. 08968

PROJECT LOCATION
(SE 6TH TER AND SE 10TH ST,
POMPANO BEACH, FL)



LOCATION MAP
N.T.S.

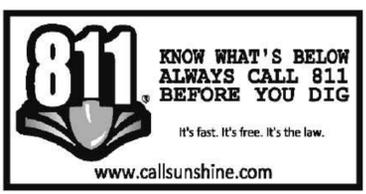
CITY OF POMPANO BEACH COMMISSION

- MAYOR: LAMAR FISHER
- VICE-MAYOR: GEORGE BRUMMER
- COMMISSIONERS:
 - BARRY DOCKSWELL (DISTRICT 1)
 - CHARLOTTE BURRIE (DISTRICT 2)
 - REX HARDIN (DISTRICT 3)
 - WOODROW J. POTIER (DISTRICT 4)
- CITY MANAGER: DENNIS BEACH
- CITY CLERK: MARY CHAMBERS
- UTILITIES DIRECTOR: RANDY BROWN
- CITY ENGINEER: ALESSANDRA DELFICO, P.E.

I N D E X

- C.0.0 COVER SHEET
- C.1.0 GENERAL NOTES
- C.2.0 LIFT STATION NOTES
- C.3.0 EXISTING CONDITIONS
- C.4.0 DEMOLITION PLAN
- C.5.0 SITE PLAN
- C.6.1 DETAILS (1 OF 2)
- C.6.2 DETAILS (2 OF 2)
- E.3.0 ELECTRICAL DEMOLITION
- E.4.0 NEW CONSTRUCTION
- E.4.0 CONTROL PANEL WIRING DIAGRAM
- E.4.1 CONTROL PANEL WIRING DIAGRAM
- E.4.2 CONTROL PANEL LAYOUT
- E.4.3 ELECTRICAL SPECIFICATIONS
- E.4.4 ELECTRICAL DETAILS

TOTAL NUMBER OF DRAWINGS : 14



THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.

**BID DOCUMENTS
JUNE 2012**

PLANS PREPARED BY:
EAC
EAC Consulting, Inc.
CA # 7011
815 NW 57th AVENUE, SUITE 402
MIAMI, FL 33126
(305) 265-5400

ENGINEER OF RECORD:
GREGORY A. MENDEZ, P.E.
STATE OF FLORIDA - LICENSE NO. 04716



CITY OF POMPANO BEACH, BROWARD COUNTY, FL

1201 NE 5th AVE POMPANO BEACH, FL 33060



GENERAL

- 1. ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH BROWARD COUNTY WATER AND WASTEWATER SERVICES MINIMUM STANDARDS AND APPLICABLE LOCAL AND NATIONAL CODES.
2. WHENEVER A MATERIAL, ARTICLE OR PIECE OF EQUIPMENT IS IDENTIFIED IN THE PROJECT MANUAL INCLUDING DRAWINGS (PLANS) AND SPECIFICATIONS BY REFERENCE TO MANUFACTURER'S OR VENDOR'S NAME, TRADE NAMES, CATALOG NUMBERS, OR OTHERWISE, IT IS INTENDED MERELY TO ESTABLISH A STANDARD, AND UNLESS IT IS FOLLOWED BY WORDS INDICATING THAT NO SUBSTITUTION IS PERMITTED, ANY MATERIAL, ARTICLE, OR EQUIPMENT OF OTHER MANUFACTURERS AND VENDORS WHICH WILL PERFORM OR SERVE THE REQUIREMENTS OF THE GENERAL DESIGN WILL BE CONSIDERED EQUALLY ACCEPTABLE, PROVIDED THE MATERIAL, ARTICLE OR EQUIPMENT SO PROPOSED IS, IN THE OPINION OF THE BC WATER & WASTEWATER SERVICES, EQUAL IN SUBSTANCE, QUALITY, AND FUNCTION.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE THE WORK AS SPECIFIED.
4. THE CONTRACTOR SHALL SUPPLY ALL LABOR AND EQUIPMENT NECESSARY TO BY-PASS THE LIFT STATION DURING CONSTRUCTION AND MAINTAIN SAID BYPASS FOR THE DURATION OF ITS USE.
5. COMPLIANCE TO "TRENCH SAFETY ACT" IS REQUIRED FOR ALL EXCAVATIONS IN EXCESS OF 5 FEET DEEP.
6. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY:
SUNSHINE STATE 1 CALL1-800-432-4700
BCWWS NETWORK (954)-831-0838
BCWWS INSPECTOR (954)-831-0901
C.O.P UTILITY DEPARTMENT (954)-545-7043
C.O.P PUBLIC WORKS DEPARTMENT (954)-786-4106
C.O.P BUILDING DEPARTMENT (954)-786-4670
7. THE CONTRACTOR SHALL ATTACH PUMP GUIDE RAILS AS PER MANUFACTURER'S RECOMMENDATIONS.
8. ALL VALVES ARE TO BE TAGGED, STATING TYPE OF VALVE AND NUMBER OF TURNS TO OPERATE. IF THE VALVE IS BURIED, A BRASS PLATE WILL BE CAST IN THE CONCRETE APRON AROUND THE VALVE COVER. IF THE VALVE IS LOCATED IN A PIT, THE TAG SHALL BE HUNG FROM THE VALVE WITH A PLASTIC STRAP.
9. ALL VALVE BOXES SHALL HAVE LOCKING LIDS.
10. ALL JOINTS SHALL BE RESTRAINED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND IN COMPLIANCE WITH AWWA STANDARDS.
11. COMPLETE "AS-BUILT" INFORMATION RELATIVE TO VALVES, FITTINGS, LENGTH OF PIPE AND THE LIKE, SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL ELEVATIONS SHALL BE TAKEN BY AN INDEPENDENT REGISTERED LAND SURVEYOR OR PROFESSIONAL SURVEYOR AND MAPPER AND INCLUDED IN THE "AS-BUILT" INFORMATION FURNISHED BY THE CONTRACTOR. FINAL APPROVAL OF THE PROJECT IS SUBJECT TO THE FINAL REVIEW AND APPROVAL OF THE "AS-BUILT" INFORMATION FURNISHED TO THE REGULATORY AGENCIES AND BCWWS.
12. FLEXIBLE EXPANSION JOINTS SHALL BE INSTALLED IN THE LOCATIONS INDICATED ON THE DRAWINGS AND SHALL BE MANUFACTURED OF DUCTILE-IRON CONFORMING TO THE MATERIAL PROPERTIES OF ANSI/AWWA C153/A21.5.3. ALL FLEXIBLE EXPANSION JOINTS SHALL CONSIST OF AN EXPANSION JOINT DESIGNED AND CAST AS AN INTEGRAL PART OF A BALL AND SOCKET TYPE FLEXIBLE JOINT, HAVING A MINIMUM OF 15' DEFLECTION PER BALL AND 4" MINIMUM EXPANSION. SURFACES IN CONTACT WITH WASTEWATER SHALL BE LINED WITH A MINIMUM OF 15 MILS OF FUSION BONDED EPOXY CONFORMING TO THE APPLICABLE REQUIREMENTS OF ANSI/AWWA C213 AND SHALL BE HOLIDAY TESTED WITH A 1500 VOLT SPARK TEST CONFORMING TO SAID SPECIFICATION. ALL FLEXIBLE EXPANSION JOINTS SHALL BE FLEX-TEND AS MANUFACTURED BY EBAA IRON INC. OR APPROVED EQUAL.

FINISHING UNFORMED SURFACES

NO SURFACE TREATMENT WILL BE REQUIRED FOR BURIED CONCRETE NOT FORMING AN INTEGRAL PART OF STRUCTURE EXCEPT THAT REQUIRED TO OBTAIN THE SURFACE ELEVATIONS OR CONTOURS AND SURFACES FREE OF LATANCE. THE UNFORMED SURFACES OF ALL OTHER CONCRETE SHALL BE SCREEDED AND GIVEN AN INITIAL FLOAT FINISH FOLLOWED BY ADDITIONAL FLOATING FOLLOWED BY TROWELING WHERE REQUIRED. CARE SHALL BE TAKEN THAT NO EXCESS WATER IS PRESENT WHEN THE FINISH IS MADE. NO SPECIAL CONCRETE OR CEMENT MORTAR TOPPING COURSE SHALL BE USED UNLESS SO SHOWN ON THE DRAWING.

- 1. SCREEDING: SCREEDING SHALL PROVIDE A CONCRETE SURFACE CONFORMING TO THE PROPER ELEVATION AND CONTOUR WITH ALL AGGREGATES COMPLETELY EMBEDDED IN MORTAR. ALL SCREEDED SURFACES SHALL BE FREE OF SURFACE IRREGULARITIES WITH A HEIGHT OR DEPTH IN EXCESS OF 1/4 INCH AS MEASURED FROM A 10-FOOT STRAIGHT EDGE.
2. FLOATING: SCREEDED SURFACES SHALL BE GIVEN AN INITIAL FLOAT FINISH AS SOON AS THE CONCRETE HAS STIFFENED SUFFICIENTLY FOR PROPER WORKING. INITIAL FLOATING SHALL BE FOLLOWED BY A SECOND FLOATING AT THE TIME OF INITIAL SET. THE SECOND FLOATING SHALL PRODUCE A FINISH OF UNIFORM TEXTURE AND COLOR, UNLESS ADDITIONAL FINISHING IS SPECIFICALLY REQUIRED, THE COMPLETED FINISH FOR UNFORMED SURFACES SHALL BE THE FLOAT FINISH PRODUCED BY THE SECOND FLOATING.
3. BROOMING: SURFACES OF EQUIPMENT BASES AND SLABS ON GRADE SHALL BE GIVEN A LIGHT BROOM FINISH PROVIDING A NONSLIP SURFACE. BROOMING SHALL BE DONE AFTER THE SECOND FLOATING AND FOR TRAFFIC AREAS SHALL BE AT RIGHT ANGLES TO THE NORMAL TRAFFIC DIRECTION.
4. EDGING: ALL PERMANENTLY EXPOSED EDGES OF UNFORMED SURFACES SHALL BE CHAMFERED WITH A 3/4 INCH APPROVED EDGING TOOL UNLESS OTHER EDGE TREATMENT IS INDICATED ON THE DRAWINGS.
5. CURING: ALL CONCRETE SHALL BE PROTECTED FROM LOSS OF MOISTURE BY CURING FOR AT LEAST 14 DAYS FOLLOWING PLACEMENT. CURING OPERATIONS SHALL TAKE PLACE IMMEDIATELY AFTER CONCRETE FINISHING IS COMPLETE OR FORMS ARE REMOVED. BREAKING OF FORM TIES OR OTHERWISE BREAKING THE SEAL BETWEEN THE CONCRETE SURFACE AND THE FORM SHALL BE CONSIDERED FORM REMOVAL.

WET WELL REHABILITATION

- 1. SURFACE PREPARATION
A. ANY LOOSE, UNSOUND, OR CRACKED BRICK OR CONCRETE SHALL BE CHISELED OR HAMMERED OUT
B. ALL SURFACES TO RECEIVE EITHER THE ONE COMPONENT REINFORCED MORTAR OR EPOXY LINING SHALL BE STRUCTURALLY SOUND AND SHALL BE CLEANED TO REMOVE LATANCE, GREASE, LOOSE MORTAR, PAINT OR OTHER SURFACE CONTAMINANTS USING SAND BLASTING, HYDRO-GRIT BLASTING AT 3,500 PSI MINIMUM OR OTHER MECHANICAL SCARIFICATION TECHNIQUES APPROVED BY THE ENGINEER. SURFACE SHALL BE TESTED BY THE CONTRACTOR, IN THE PRESENCE OF THE ENGINEER, USING A SURFACE pH TESTER EQUAL TO INSTA-CHECK SURFACE pH PENCIL AS MANUFACTURED BY PHYDRION. SURFACE SHALL INDICATE A pH=7.0 OR GREATER.
C. ALL ACTIVE LEAKS IN THE STRUCTURE SHALL BE STOPPED USING CHEMICAL GROUTING AND HYDRAULIC CEMENT. ALL CRACKS, VOIDS AND REMOVED STEP HOLES SHALL BE FILLED USING A WATER RESISTANT FAST-SETTING CEMENT PATCH.
2. REBUILDING CONCRETE SURFACES
A. THE CONCRETE SHALL BE RETURNED TO ITS ORIGINAL WALL THICKNESS USING A ONE COMPONENT MORTAR, MINIMUM INSTALLED THICKNESS SHALL BE 1/2".
B. ONE COMPONENT REINFORCED WET MORTAR: THE ONE COMPONENT MORTAR SHALL BE MICROSILICA ENHANCED, FIBER REINFORCED AND BE DESIGNED FOR CORROSIVE ENVIRONMENTS WITH A pH=2.0 OR HIGHER. REINFORCED MORTAR SHALL HAVE THE FOLLOWING MINIMUM PHYSICAL PROPERTIES:
1. FLEXURAL STRENGTH 1000 PSI @ 28 DAYS ASTM C78-84
2. COMPRESSIVE STRENGTH 9000 PSI @ 28 DAYS ASTM C109-92
3. DENSITY (WET): 130 LB/CU. FT. ASTM C138-92
4. SPLITTING TENSILE STRENGTH: 700 PSI @ 28 DAYS ASTM C496-90
5. SLANT SHEAR BOND STRENGTH: 2250PSI @ 28 DAYS ASTM C882-91
6. SULFATE RESISTANCE WEIGHTLOSS 84 DAY IMMERSION pH 1.0 <.97% ASTM C-267 pH 2.0 <.30% pH 3.0 <.18%
C. MATERIAL SHALL BE BASF SP15, OR APPROVED EQUAL.

PAINTING & COATINGS:

- 1. WET WELL INTERIOR OF A NEW OR REHABILITATED WET WELL, WHERE DIRECTED BY CITY OF POMPANO BEACH, SHALL BE COATED WITH TWO (2) COATS, 15 MILS (DFT) EACH, OF A BITUMASTIC COATING (30 MILS DFT, TOTAL). BITUMASTIC COATING SHALL BE SUPERCOAT
2. METER VAULT CONCRETE INTERIOR SURFACES: THE INTERIOR CONCRETE SURFACES OF METER VAULTS SHALL BE COATED WITH A 100% SOLIDS POLYAMINE EPOXY SPECIFICALLY DESIGNED FOR WASTEWATER IMMERSION AND LOW PERMEATION TO H2S GAS. MATERIAL SHALL BE TNEMEC PERMA-GLAZE, SERIES 435, OR APPROVED EQUAL, APPLIED IN TWO (2) COATS, 15.0 MILS (DFT) EACH, (30.0 MILS DFT, TOTAL). FINAL COLOR TO BE BEIGE. SURFACE PREPARATION, PRIMING AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MORE STRINGENT OF THE MANUFACTURERS RECOMMENDATIONS OR THE BCWWS SPECIFICATIONS.
3. DUCTILE IRON PIPE AND FITTING: DIP EXTERIOR SURFACES SHALL BE COATED WITH A 100% POLYAMINE EPOXY SPECIFICALLY DESIGN FOR WASTEWATER IMMERSION AND LOW PERMEATION TO H2S GAS. MATERIAL SHALL BE TNEMEC PERMA-GLAZE, SERIES 435,OR APPROVED EQUAL, APPLIED IN TWO (2) COATS 20 MILS (DFT) EACH (40.0 MIL DFT, TOTAL). VALVES SHALL RECEIVE ONLY THE FINAL 20 MIL (DFT) COAT. FINAL COLOR TO BE BEIGE. SURFACE PREPARATION, PRIMING AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MORE STRINGENT OF THE MANUFACTURER'S RECOMMENDATIONS OR THE BCWWS SPECIFICATIONS. DIP INTERIOR SURFACES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. CERTIFICATION OF MANUFACTURER SHALL BE PROVIDED.

PUMPS AND CONTROL PANEL

- 1. PUMPS AND CONTROL PANEL WILL BE PROVIDED TO THE CONTRACTOR BY CITY OF POMPANO BEACH FOR INSTALLATION INTO THE WORK. ALL APPURTENANCES REQUIRED TO MAKE A COMPLETE AND OPERATING SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

PUMP STATION #65 REHABILITATION BID DOCUMENTS

DRAWING ISSUED

Table with columns: SUBMITTAL, No., DESCRIPTION, DATE, BY. Includes rows for BID DOCS and REVISION.

DESIGNED : JA CHECKED : RD/GM
DRAWN : JA/AR FINAL CHECK BY : GM

GREGORY A. MENDEZ, P.E.
STATE OF FLORIDA - LICENSE NO. 64718
DATE : JUNE 2012 SCALE : 1" = 20'

DWG TITLE: LIFT STATION NOTES

DWG No. C.2.0

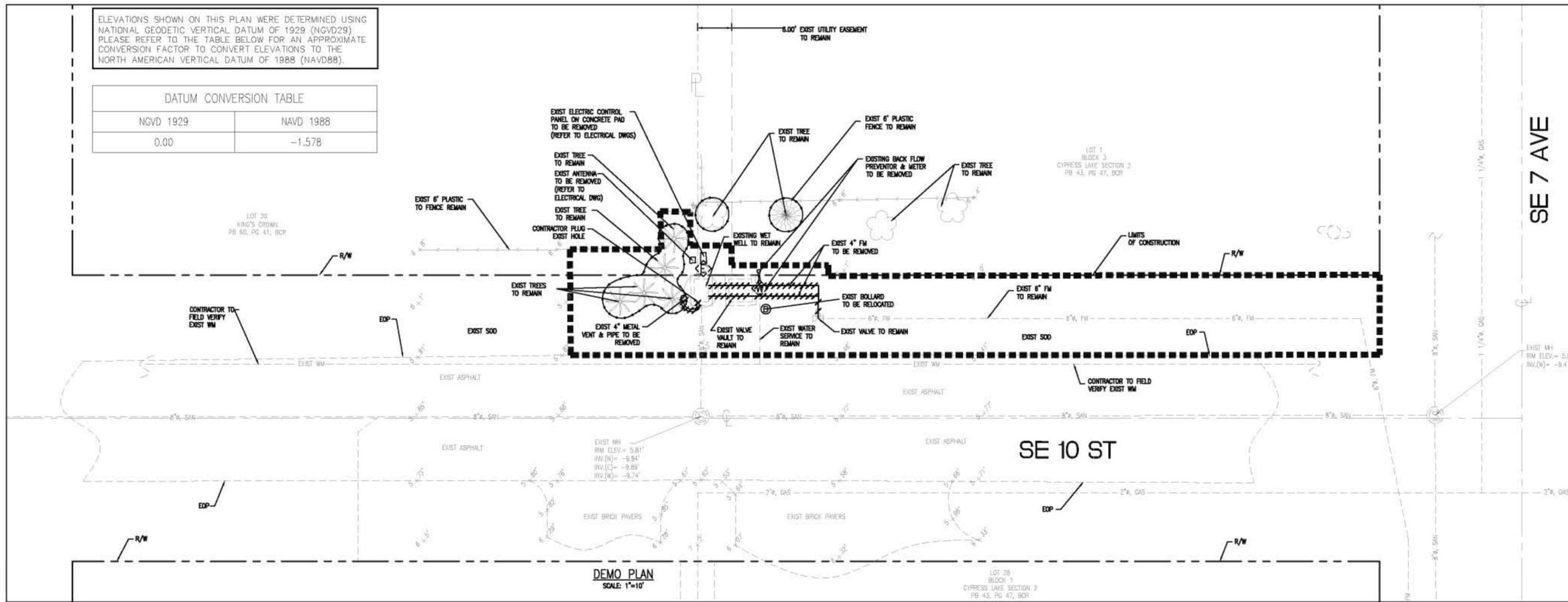


THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.

NOT PART OF BROWARD COUNTY NOTES AND APPROVAL. DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"X36" IF THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET EXACTNESS OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.

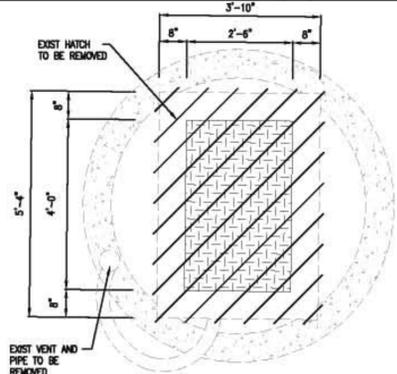
ELEVATIONS SHOWN ON THIS PLAN WERE DETERMINED USING NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). PLEASE REFER TO THE TABLE BELOW FOR AN APPROXIMATE CONVERSION FACTOR TO CONVERT ELEVATIONS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

DATUM CONVERSION TABLE	
NGVD 1929	NAVD 1988
0.00	-1.578

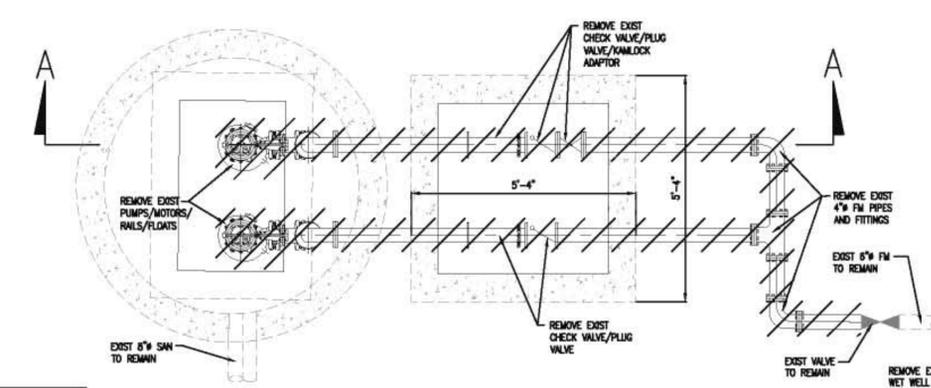


- LEGEND:**
- LIMITS OF CONSTRUCTION
 - - - EXISTING TOPOGRAPHY
 - - - RIGHT OF WAY (R/W)
 - - - EXISTING CENTER LINE
 - PIPE TO BE REMOVED
 - TREE PROTECTION BARRIER TO REMAIN FOR DURATION OF CONSTRUCTION
 - MANHOLE
 - FORCE MAIN
 - SANITARY SEWER
 - CENTER LINE
 - EXISTING ELEVATIONS
 - MANHOLE
 - LIGHT POLE
 - PLAT BOOK
 - PAGE
 - NORTH
 - SOUTH
 - EAST
 - WEST
 - ELEVATION
 - INVERT
 - HIGH DENSITY POLYETHYLENE
 - BOUNDARY/CLUSTER
 - WATER METER
 - BACK FLOW PREVENTOR
 - ELECTRIC METER
 - HIBISCUS CLUSTER
 - SANITARY SEWER VALVE
 - ARECA PALM CLUSTER
 - SURFACE ELEVATION
 - BOLLARD / GUARD POST
 - ITEMS TO DEMOLISHED/REMOVED

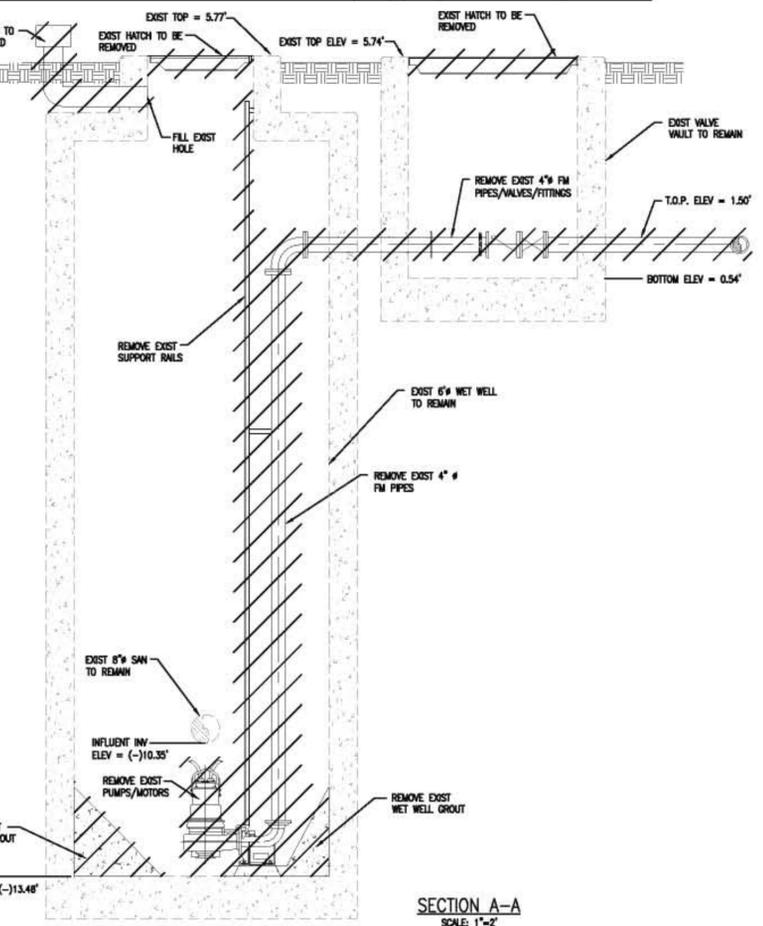
- DEMOLITION NOTES:**
- ALL THE MAJOR ITEMS WITHIN RIGHT-OF-WAY AND LIMITS OF CONSTRUCTION ARE SHOWN ON THIS DRAWING. CONTRACTOR SHALL DEMOLISH ANY EXPOSED MISSING ITEM LOCATED WITHIN THESE LIMITS AS PER A/E AND DISTRICT'S INSTRUCTIONS.
 - CONTRACTOR SHALL NOT DEMOLISH ANY ITEM OUTSIDE THE RIGHT-OF-WAY LIMITS UNLESS OTHERWISE DIRECTED BY A/E AND APPLICABLE JURISDICTIONS.
 - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING PIPELINES OR UTILITIES WHETHER SHOWN OR NOT.
 - ALL ITEMS TO REMAIN SHALL BE PROTECTED FROM ANY DAMAGE OR LOSS.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF MAKING ANY CONNECTION TO AN ACTIVE PIPELINE OR UTILITY SYSTEM.
 - ALL SALVAGED MATERIAL SHALL BE MOVED BY CONTRACTOR TO DESIGNATED STORAGE SITES AS DIRECTED BY THE ENGINEER AND THE CITY OF POMPANO BEACH.
 - REFER TO ELECTRICAL DRAWINGS FOR DEMOLITION OF ELECTRICAL ITEMS, EQUIPMENTS AND UTILITY SERVICE LINES.
 - THE CONTRACTOR SHALL SCHEDULE AND MAINTAIN DEMOLITION OPERATIONS TO MINIMIZE ANY INTERFERENCE TO PROJECT SITE'S ADJACENT WALKWAYS, SIDEWALKS AND ROADWAYS WHERE PEDESTRIANS AND VEHICULAR TRAFFIC ACCESS PUBLIC RIGHT OF WAYS.
 - THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION TO EXAMINE EXISTING FOLIAGE TO DETERMINE IF TRIMMING OR TREE REMOVAL WILL BE NECESSARY AND ACCOUNT FOR THIS WORK IF NECESSARY IN HIS BID.
 - THE CONTRACTOR MUST COORDINATE WITH ALL UTILITY COMPANIES BEFORE ANY DEMOLITION OR EXCAVATION COMMENCES.
 - CONTRACTOR MUST OBTAIN APPROVAL/PERMIT FOR DEMOLITION ACTIVITIES FROM ALL APPLICABLE JURISDICTIONAL AGENCIES.
 - CONTRACTOR MUST ENSURE THAT DEMOLITION ACTIVITIES ARE UNDERTAKEN IN A MANNER THAT MINIMIZES IMPACTS TO SURROUNDING AREA OPERATIONS. DEMOLITION/SITE CLEARING MUST BE CARRIED OUT IN A MANNER THAT ELIMINATES INTRUSION ON ADJACENT PROPERTIES/OWNERS.
 - ON-SITE STORAGE OR DEMOLITION DEBRIS IS PROHIBITED. SITE CLEARING AND DEMOLITION MUST COMPLY WITH APPLICABLE PROJECT SPECIFICATIONS AND AGENCIES JURISDICTIONS.
 - CONTRACTOR SHALL MAINTAIN PROPER ACCESS TO SITE AT ALL TIMES DURING CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING PUMP STATION DIMENSIONS AND ORIENTATION.
 - DURING SURFACE DEMOLITION WORK, CONTRACTOR MUST COMPLY WITH FLORIDA STATUTE SECTION 353.051 FOR THE PROTECTION OF GAS LINES AND TELECOMMUNICATION LINES.
 - NO ELECTRICAL, GAS, CABLE, TELECOMMUNICATIONS DEMOLITION OR REMOVALS SHOULD BE UNDERTAKEN WITHOUT VERIFYING ON THE APPROPRIATE UTILITY DESIGN DRAWINGS AND UPFRONT COORDINATION & AUTHORIZATION FROM UTILITY OWNER. DEMOLITION AND REMOVALS MUST BE UNDERTAKEN BY CERTIFIED, EXPERIENCED AND LICENSED CONTRACTOR.
 - CONTRACTOR MUST CONTACT SUNSHINE ONE CALL FLORIDA PRIOR TO COMMENCING DEMOLITION AND SITE CLEARING ACTIVITIES, FOR IDENTIFICATION AND LOCATION OF PROJECT ON-SITE AND OFF-SITE UTILITIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS WHICH MAY BE REQUIRED TO EXISTING STRUCTURE IN ORDER TO ALLOW THE PROPER INSTALLATION OF NEW PUMPS, MOTORS AND VALVES.
 - ANY SODDED AREAS, FENCING, SIDEWALK OR ROAD PAVEMENT DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL DURING CONSTRUCTION AND FOR ANY NECESSARY TEMPORARY TRAFFIC DIVERSIONS DURING CONSTRUCTION.
 - CONTRACTOR SHALL CONTACT BOBBY CLAYTON AT 954-786-4154 TO COORDINATE WITH CITY AND DETERMINE WHAT ITEMS CAN BE SALVAGED.



TOP PLAN
SCALE: 1"=2'



BOTTOM PLAN
SCALE: 1"=2'



SECTION A-A
SCALE: 1"=2'

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.

pompano beach
Florida's Warmest Welcome

CITY OF POMPANO BEACH, BROWARD COUNTY, FL

1201 NE 5th AVE
POMPANO BEACH, FL 33060

EAC
EAC Consulting, Inc.
CA # 7011
815 NW 57th AVE, SUITE 402
MIAMI, FL 33126
(305) 265-5400

PUMP STATION #65 REHABILITATION
BID DOCUMENTS

DRAWING ISSUED

SUBMITTAL	No.	DESCRIPTION	DATE	BY
BD DOCS			05/29/12	GM

REVISION	No.	DESCRIPTION	DATE	BY

DESIGNED: JA CHECKED: RD/GM
DRAWN: JA/AR FINAL CHECK BY: GM

GREGORY A. MENDEZ, P.E.
STATE OF FLORIDA - LICENSE NO. 64718

DATE: JUNE 2012 SCALE: AS SHOWN

DWG TITLE: **DEMOLITION PLAN**

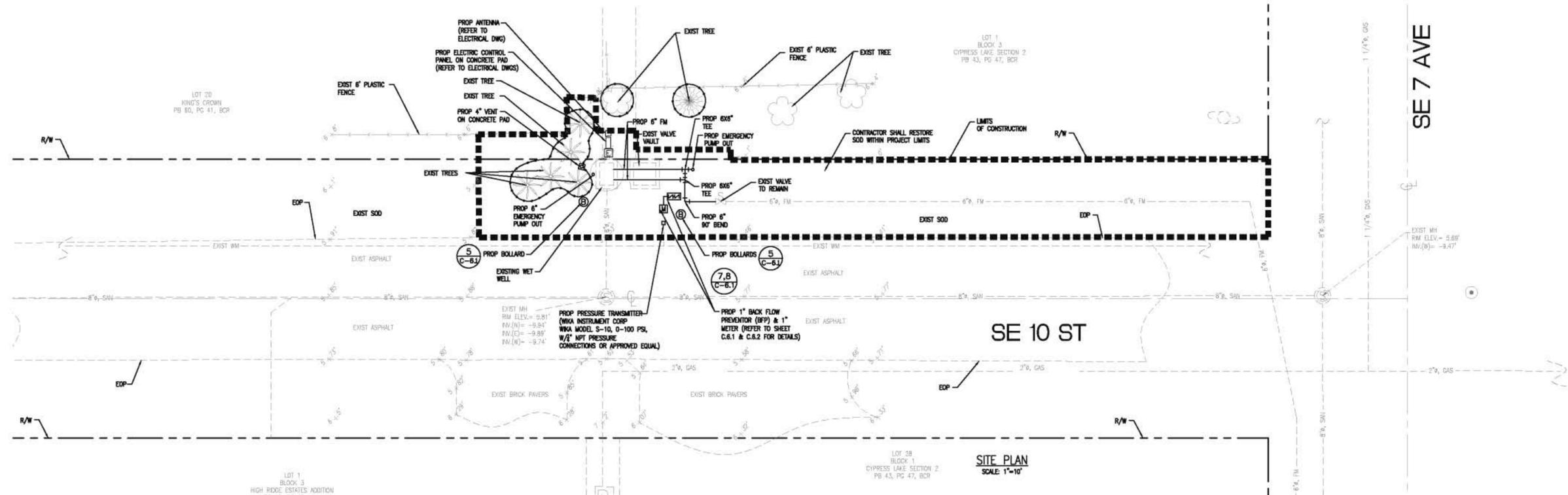
DWG No. **C.4.0**

NOT PART OF BROWARD COUNTY NOTES AND APPROVALS. DRAWING SCALE CORRESPONDS TO PLOT SIZE OF 34.38" X 46.06". THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET DIMENSIONS OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.

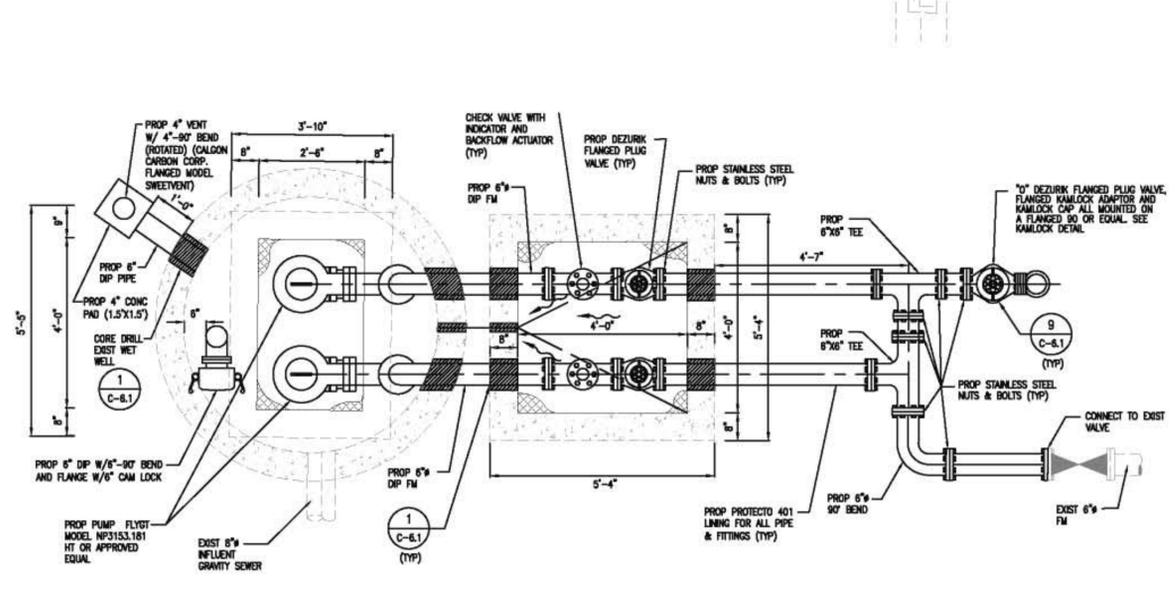


CITY OF POMPANO BEACH, BROWARD COUNTY, FL

1201 NE 5th AVE
POMPANO BEACH, FL 33060



SITE PLAN
SCALE: 1"=10'

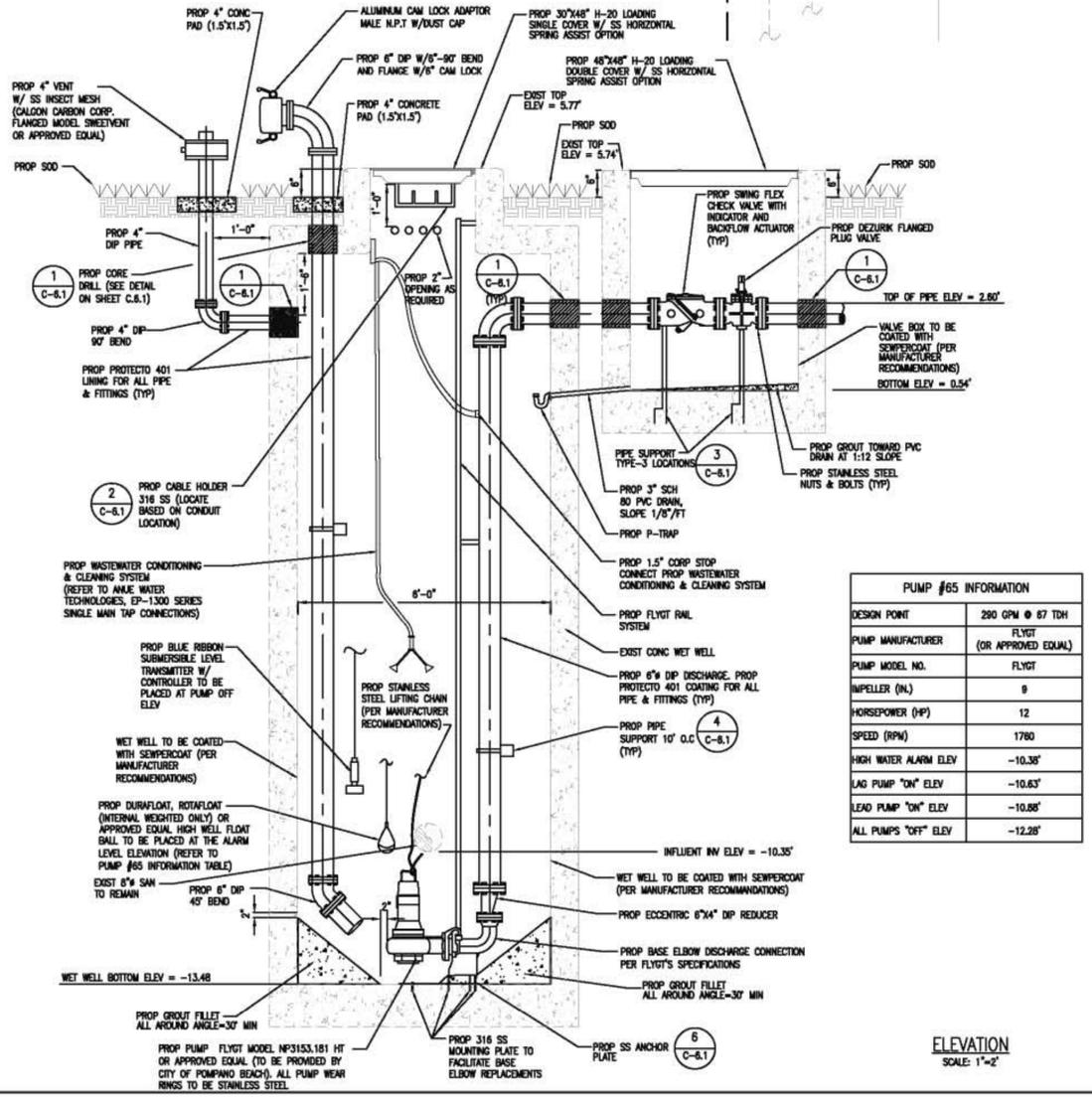


PLAN VIEW
SCALE: 1"=2'

ELEVATIONS SHOWN ON THIS PLAN WERE DETERMINED USING NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) PLEASE REFER TO THE TABLE BELOW FOR AN APPROXIMATE CONVERSION FACTOR TO CONVERT ELEVATIONS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

DATUM CONVERSION TABLE	
NGVD 1929	NAVD 1988
0.00	-1.578

THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.



PUMP #65 INFORMATION	
DESIGN POINT	280 GPM @ 67 TDH
PUMP MANUFACTURER	FLYGT (OR APPROVED EQUAL)
PUMP MODEL NO.	FLYGT
IMPELLER (IN)	9
HORSEPOWER (HP)	12
SPEED (RPM)	1780
HIGH WATER ALARM ELEV	-10.35'
LAG PUMP "ON" ELEV	-10.63'
LEAD PUMP "ON" ELEV	-10.85'
ALL PUMPS "OFF" ELEV	-12.28'

ELEVATION
SCALE: 1"=2'

PUMP STATION #65
REHABILITATION
BID DOCUMENTS

DRAWING ISSUED

SUBMITTAL	No.	DESCRIPTION	DATE	BY
BD DOCS			05/2012	GM

REVISION

No.	DESCRIPTION	DATE	BY

SIGNED: JA CHECKED: RD/GM
DRAWN: JA/AR FINAL CHECK BY: GM

GREGORY A. MENDEZ, P.E.
STATE OF FLORIDA - LICENSE NO. 64718
DATE: JUNE 2012 SCALE: AS SHOWN

DWG TITLE: **SITE PLAN**

DWG No. **C.5.0**



THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET COMPLETELY OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.

DRAWING ISSUED

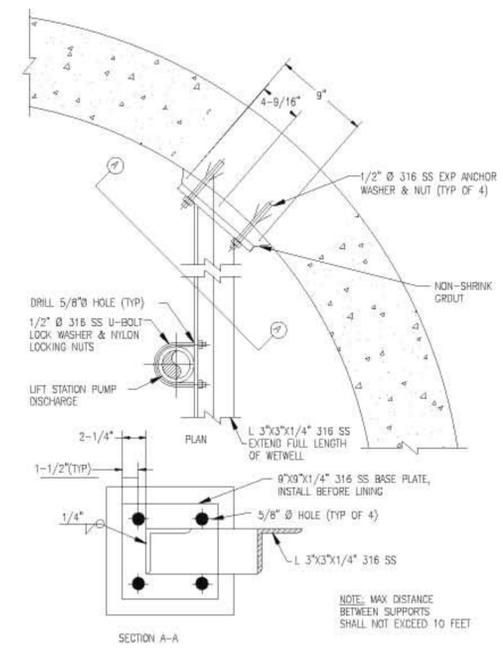
SUBMITTAL	No.	DESCRIPTION	DATE	BY
BD DOCS			05/29/12	GM
REVISION	No.	DESCRIPTION	DATE	BY

DESIGNED : JA CHECKED : RD/GM
DRAWN : JA/AR FINAL CHECK BY : GM

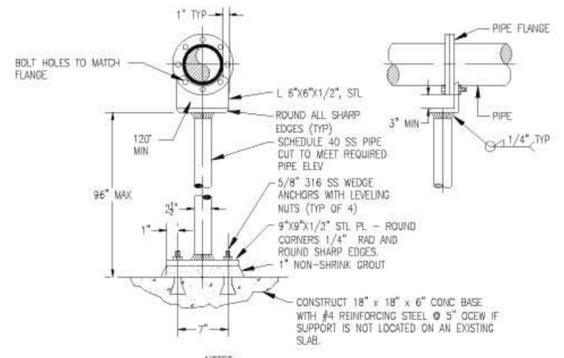
GREGORY A. MENDEZ, P.E.
STATE OF FLORIDA - LICENSE NO. 64718
DATE : JUNE 2012 SCALE : **NTS**

DWG TITLE: **DETAILS (1 OF 2)**

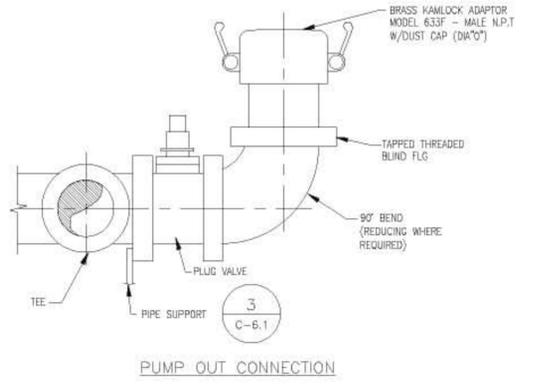
DWG No. **C.6.1**



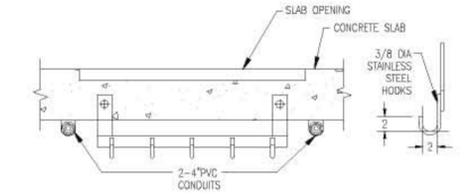
DETAIL 4
NTS C-5.0



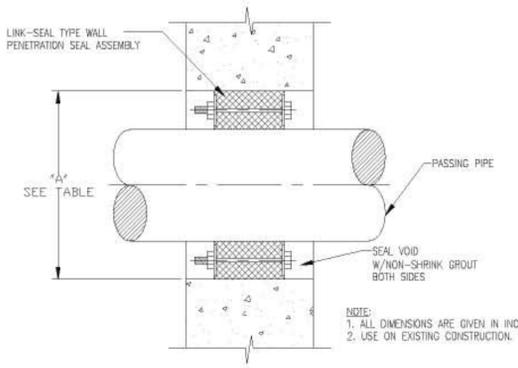
DETAIL 3
NTS C-5.0



DETAIL 9
NTS C-5.0

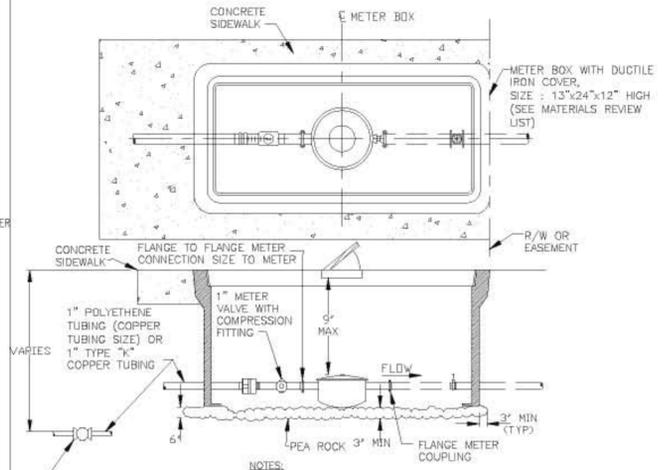


DETAIL 2
NTS C-5.0

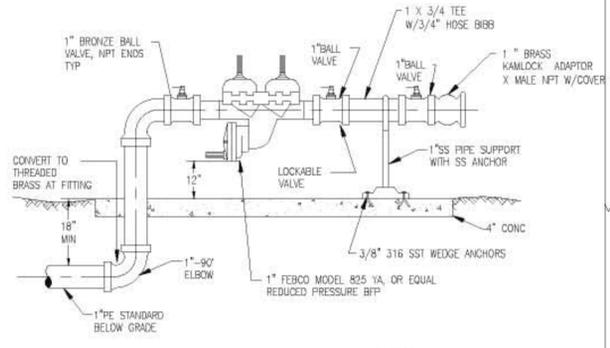


PIPE SIZE	"A"	PIPE SIZE	"A"
2	4	12	16
2-1/2	4	14	18
3	5	16	20
4	6	18	24
6	10	20	24
8	12	24	30
10	14		

DETAIL 1
NTS C-5.0



DETAIL 8
NTS C-5.0



DETAIL 7
NTS C-5.0

ITT Water & Wastewater FP/NP-3153
Issued: 2/09 Supersedes: 2/08

Lift Station Dimensions

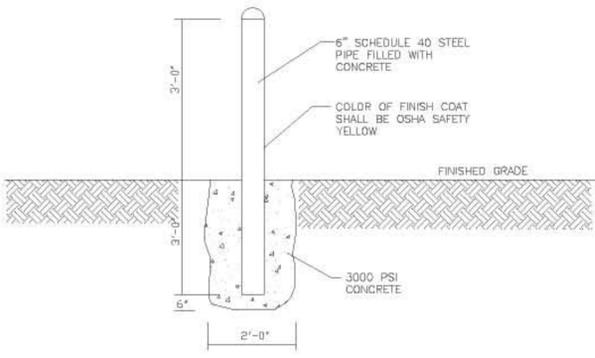
NOTES:
1. CONFIGURATION AND DIMS. SHOWN ARE SUGGESTED REQUIREMENTS ONLY. ALL DETAILS, INCLUDING SIZING OF PIT, TYPE, LOCATION AND ARRANGEMENT OF VALVES AND PIPING, ETC. ARE TO BE SPECIFIED BY THE CONSULTING ENGINEER AND ARE SUBJECT TO THEIR APPROVAL.
2. REFERENCE GENERIC DUPLEX LIFT STATION LAYOUT FOR ELEVATION VIEW.
3. LOCATE ANCHOR BOLTS USING INSIDE EDGE OF CLEAR OPENING AND PUMP CENTERLINE AS REFERENCE POINT. BOLT LOCATIONS MUST BE HELD TO MAINTAIN EXACT POSITION OF PUMP TO CLEAR OPENING.
4. ITT FLYGT MIX-FLUSH VALVE.

Simplex **Duplex**

ALL DIMENSIONS ARE IN INCHES

MODEL	SIZE	VERSION	A	B	C	D	S	T	U	V	W	Y	S	T	U	V	W	Y	
FP/NP	4"	SH	21	19	8	4	211	151	72	9	27	294	181	128	72	11	20	48	291
FP/NP	4"	SH	23	19	8	4	192	131	72	9	27	294	165	110	72	11	20	48	283
FP/NP	4"	HT	23	19	8	4	192	131	72	11	274	309	165	110	72	11	22	49	305
FP/NP	6"	MT	48	11	10	5	178	93	72	12	284	32	128	54	72	12	24	152	32
NP	8"	LT	55	11	10	5	143	58	72	14	305	35	163	78	84	13	27	95	33
NP	10"	LT	74	119	10	5	233	113	96	164	354	40	169	6	186	18	134	71	40

DETAIL 6
NTS C-5.0



DETAIL 5
NTS C-5.0

811
**KNOW WHAT'S BELOW
ALWAYS CALL 811
BEFORE YOU DIG**
It's fast. It's free. It's the law.
www.callsunshine.com

THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.

NOT PART OF BROWARD COUNTY NOTES AND APPROVAL. DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"X36". IF THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET DIMENSIONS OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.



CITY OF POMPANO BEACH, BROWARD COUNTY, FL

1201 NE 5th AVE
POMPANO BEACH, FL 33060



EAC Consulting, Inc.
CA # 7011
815 NW 57th AVE, SUITE 402
MIAMI, FL 33126
(305) 265-5400

PUMP STATION #65
REHABILITATION

BID DOCUMENTS

DRAWING ISSUED

SUBMITTAL	No.	DESCRIPTION	DATE	BY
BD DOCS			05/29/12	GM
REVISION	No.	DESCRIPTION	DATE	BY

DESIGNED : JA CHECKED : RD/GM
DRAWN : JA/AR FINAL CHECK BY : GM

GREGORY A. MENDEZ, P.E.
STATE OF FLORIDA - LICENSE NO. 64718
DATE : JUNE 2012 SCALE : NTS

DWG TITLE: **DETAILS (2 OF 2)**

DWG No. **C.6.2**

NOT PART OF BROWARD COUNTY NOTES AND APPROVAL. DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"X36". IF THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET COMPLETELY OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.

9. BEDDING TYPES - THE FOLLOWING TYPES OF SUITABLE MATERIALS ARE DESIGNATED AND DEFINED AS FOLLOWING:

TYPE A: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 1 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.

TYPE B: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 1/2 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.

TYPE C: SAND WITH 100 PERCENT PASSING A 3/8 INCH SIEVE, AT LEAST 90 PERCENT PASSING A NUMBER 4 SIEVE, AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.

TYPE D: CRUSHED LIMEROCK WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NOT MORE THAN 10 PERCENT A NUMBER 4 SIEVE.

TYPE E: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 3/4 INCH SIEVE AND NOT MORE THAN 10 PERCENT PASSING A NUMBER 4 SIEVE.

TYPE F: CRUSHED LIMEROCK MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENTAGE PASSING
2 INCH	100
1-1/2 INCH	90-100
1 INCH	20-50
3/4 INCH	0-15
No. 200	0-3

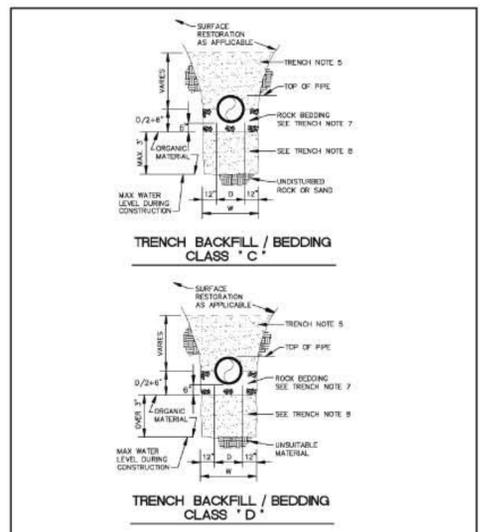
TRENCH BACKFILL / BEDDING NOTES

REVISIONS		ENGINEERING DEPARTMENT	TRENCH BACKFILL / BEDDING
BY	DATE	CITY OF POMPANO BEACH	
S.S.	JUNE 2008		
		APPROVED BY:	DATE: JUNE 1996 DWG. NO. 201-4
		CITY ENGINEER	
		SCALE: N.T.S.	

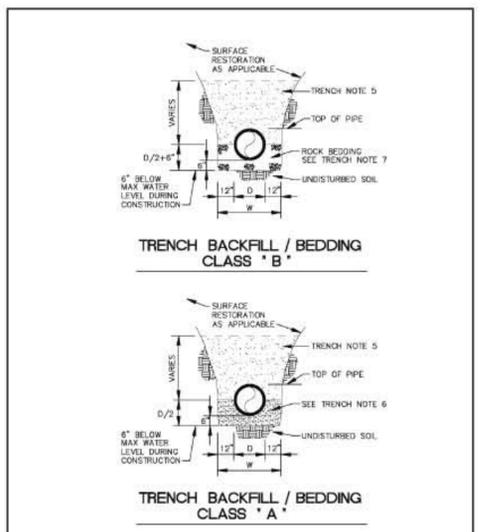
- OUTLINE OF TRENCH EXCAVATION IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL TRENCH WIDTH AND SHAPE WILL VARY WITH SOIL CONDITIONS. TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE "FLORIDA TRENCH SAFETY ACT" AND OSHA TRENCH SAFETY STANDARDS.
- TYPICAL TRENCH BACKFILL/BEDDING FOR WATER MAIN AND FORCE MAIN INSTALLATIONS SHALL BE CLASS "A" AS SHOWN IN DETAIL.
- TYPICAL TRENCH BACKFILL/BEDDING FOR GRAVITY SEWER INSTALLATION SHALL BE CLASS "B" AS SHOWN IN DETAIL.
- TRENCH BACKFILL/BEDDING CLASS "C" AND CLASS "D" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSTABLE TRENCH MATERIALS ARE ENCOUNTERED.
- TRENCH ZONE BACKFILL SHALL BE MATERIAL TYPE 1 OR TYPES A THRU H, OR ANY MIXTURE THEREOF, WHERE SURFACE RESTORATION TYPE "1" IS APPLICABLE. TRENCH ZONE BACKFILL SHALL BE PLACED IN 12" LIFTS, COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-697 (AASHTO T-99), WHERE SURFACE RESTORATION TYPES "2", "3" AND "4" ARE APPLICABLE. TRENCH BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 98% OF THE MATERIAL'S DENSITY AS DETERMINED BY ASTM D-698 (AASHTO T-99).
- BEDDING MATERIAL FOR TYPICAL WATER MAIN AND FORCE MAIN INSTALLATION SHALL BE TYPE C. BEDDING SHALL BE COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
- BEDDING MATERIAL FOR TYPICAL GRAVITY SEWER INSTALLATION AND ANY INSTALLATION WHERE UNSUITABLE TRENCH BOTTOM CONDITIONS ARE FOUND SHALL BE TYPE E. BEDDING SHALL BE PLACED IN LIFTS NOT TO EXCEED 6" AND COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
- UNSUITABLE MATERIAL SHALL BE REMOVED TO UNDISTURBED ROCK OR SAND OR TO DEPTH AS SPECIFIED BY ENGINEER. BACKFILL MATERIAL SHALL BE TYPE C. BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 98% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).

TRENCH BACKFILL / BEDDING NOTES

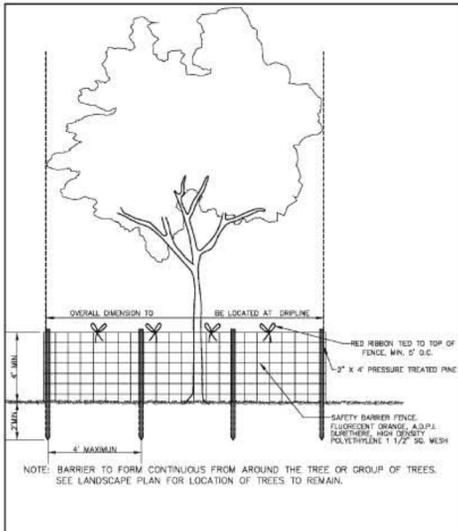
REVISIONS		ENGINEERING DEPARTMENT	TRENCH BACKFILL / BEDDING
BY	DATE	CITY OF POMPANO BEACH	
S.S.	JUNE 2008		
		APPROVED BY:	DATE: JUNE 1996 DWG. NO. 201-3
		CITY ENGINEER	
		SCALE: N.T.S.	



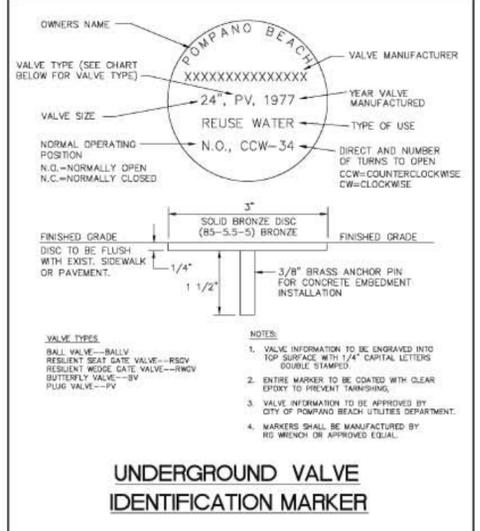
REVISIONS		ENGINEERING DEPARTMENT	TRENCH BACKFILL / BEDDING
BY	DATE	CITY OF POMPANO BEACH	
S.S.	JUNE 2008		
		APPROVED BY:	DATE: JUNE 1996 DWG. NO. 201-2
		CITY ENGINEER	
		SCALE: N.T.S.	



REVISIONS		ENGINEERING DEPARTMENT	TRENCH BACKFILL / BEDDING
BY	DATE	CITY OF POMPANO BEACH	
S.S.	JUNE 2008		
		APPROVED BY:	DATE: JUNE 1996 DWG. NO. 201-1
		CITY ENGINEER	
		SCALE: N.T.S.	



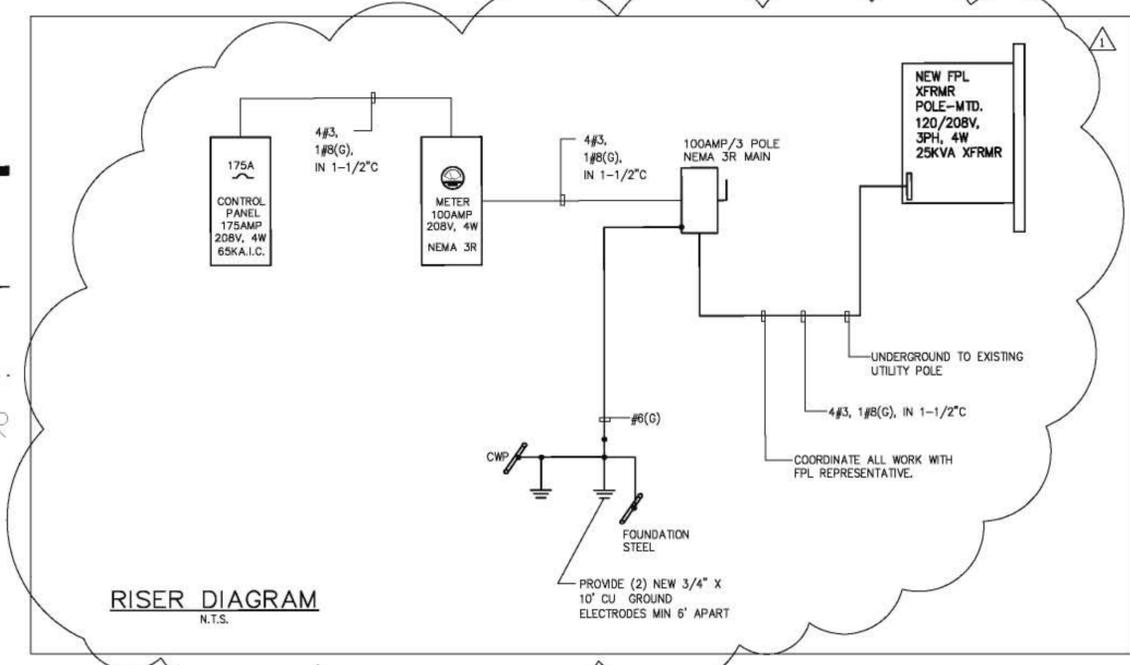
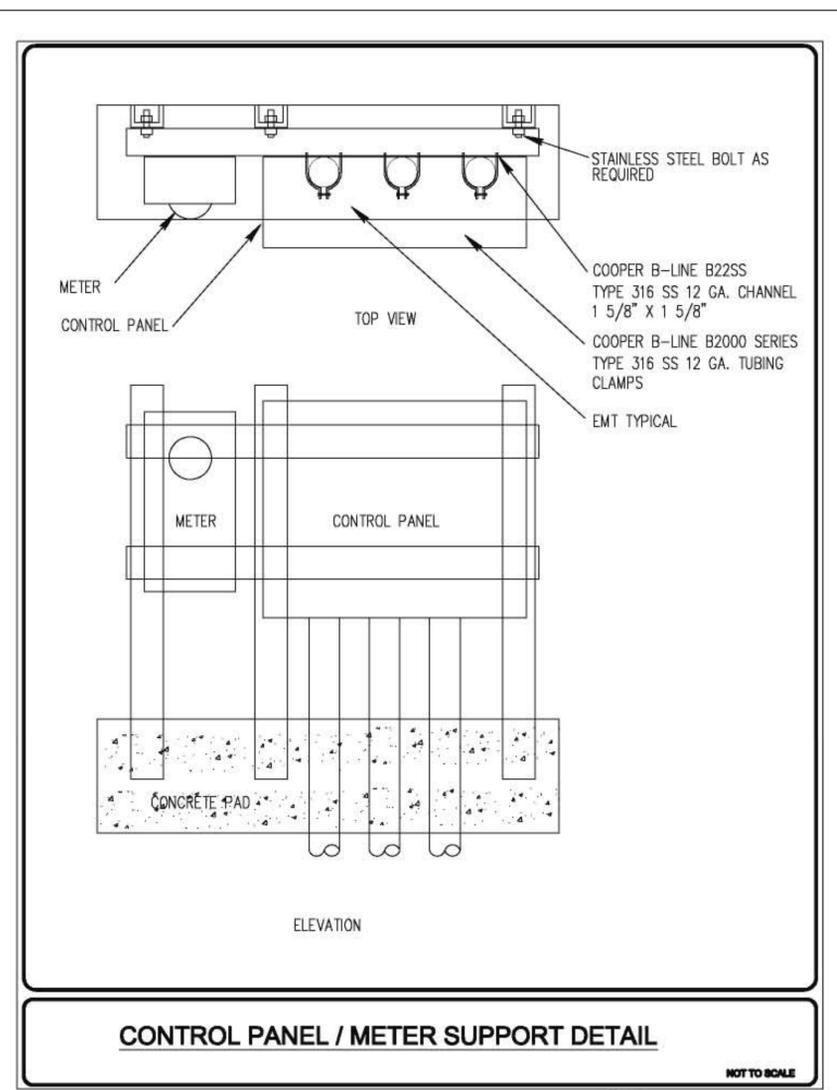
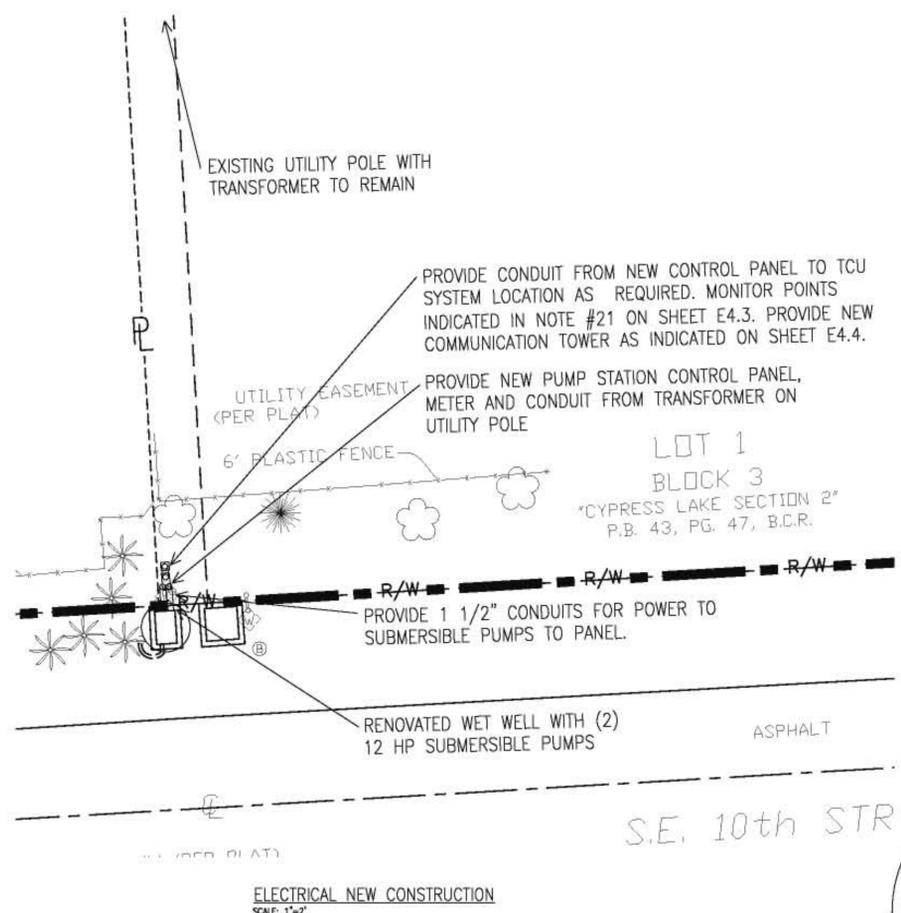
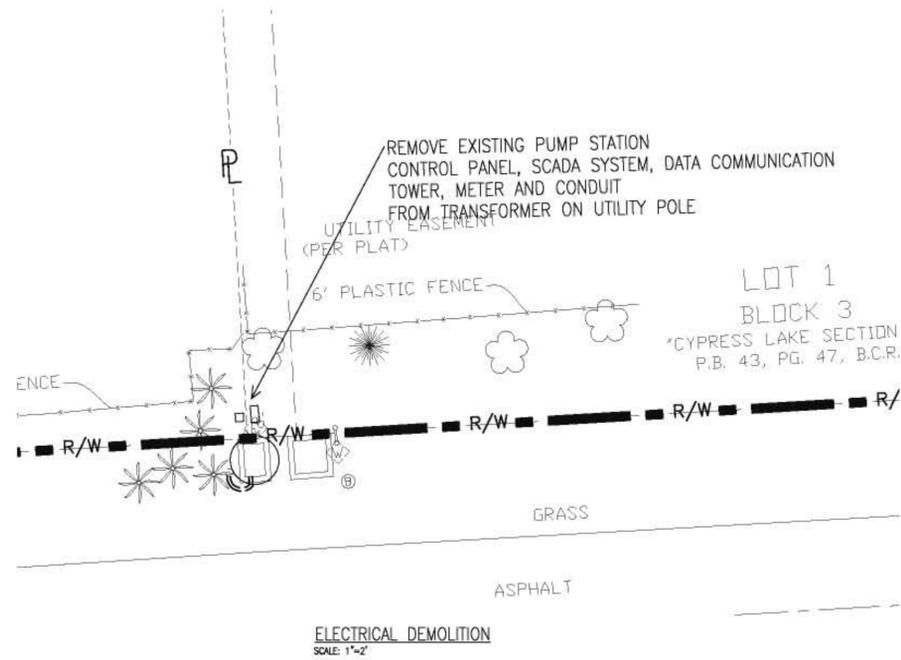
REVISIONS		URBAN FORESTRY	TREE PROTECTION DETAIL
BY	DATE	CITY OF POMPANO BEACH	
TCW	APRIL 2010		
		APPROVED BY:	DATE: APRIL 2010 DWG. NO. 104-1
		URBAN FORESTER	
		SCALE: N.T.S.	



REVISIONS		ENGINEERING DEPARTMENT	UNDERGROUND VALVE IDENTIFICATION MARKER
BY	DATE	CITY OF POMPANO BEACH	
S.S.	12/24/02		
		APPROVED BY:	DATE: MAY 2007 DWG. NO. 502-1
		CITY ENGINEER	
		SCALE: N.T.S.	



THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.



811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG

It's fast. It's free. It's the law.

www.callsunshine.com

THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.



CITY OF POMPAÑO BEACH, BROWARD COUNTY, FL

1201 NE 5th AVE
POMPAÑO BEACH, FL 33060

EAC

EAC Consulting, Inc.
CA # 7011
815 NW 57th AVE, SUITE 402
MIAMI, FL 33128
(305) 265-5400

project **CANE** ENGINEERING INCORPORATED

RESPONSIVE ENGINEERING
MECHANICAL ELECTRICAL PLUMBING PROTECTION

100 EAST BROWARD BLVD, SUITE 201
MIAMI, FL 33132
P.O. BOX 787, APT. 2, MIAMI, FL 33132
WWW.CANEENGINEERING.COM

PUMP STATION #65 REHABILITATION

100% SUBMITTAL

DRAWING ISSUED

SUBMITTAL No.	DESCRIPTION	DATE	BY
REVIEW 60 %			
REVIEW 90 %			
REVIEW 100 %			
PERMIT		06/12/11 TEL	
REVISION No.	DESCRIPTION	DATE	BY
1	CITY COMMENTS	6/11/12	

DESIGNED : VNW CHECKED : RBC
DRAWN : VNW FINAL CHECK BY : RBC

ROBERT B. CAINE, P.E.
STATE OF FLORIDA - LICENSE NO. 37637
DATE : AUGUST, 2011 SCALE : AS SHOWN

DWG TITLE: ELECTRICAL DEMOLITION/NEW CONST.
DWG No. E.3.0

NOT PART OF BROWARD COUNTY NOTES FOR APPROVAL. DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"X36". THIS DRAWING IS PLOTTED ON OTHER SHEET ENGINEER OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.



CITY OF POMPANO BEACH, BROWARD COUNTY, FL

1201 NE 5th AVE
POMPANO BEACH, FL 33060

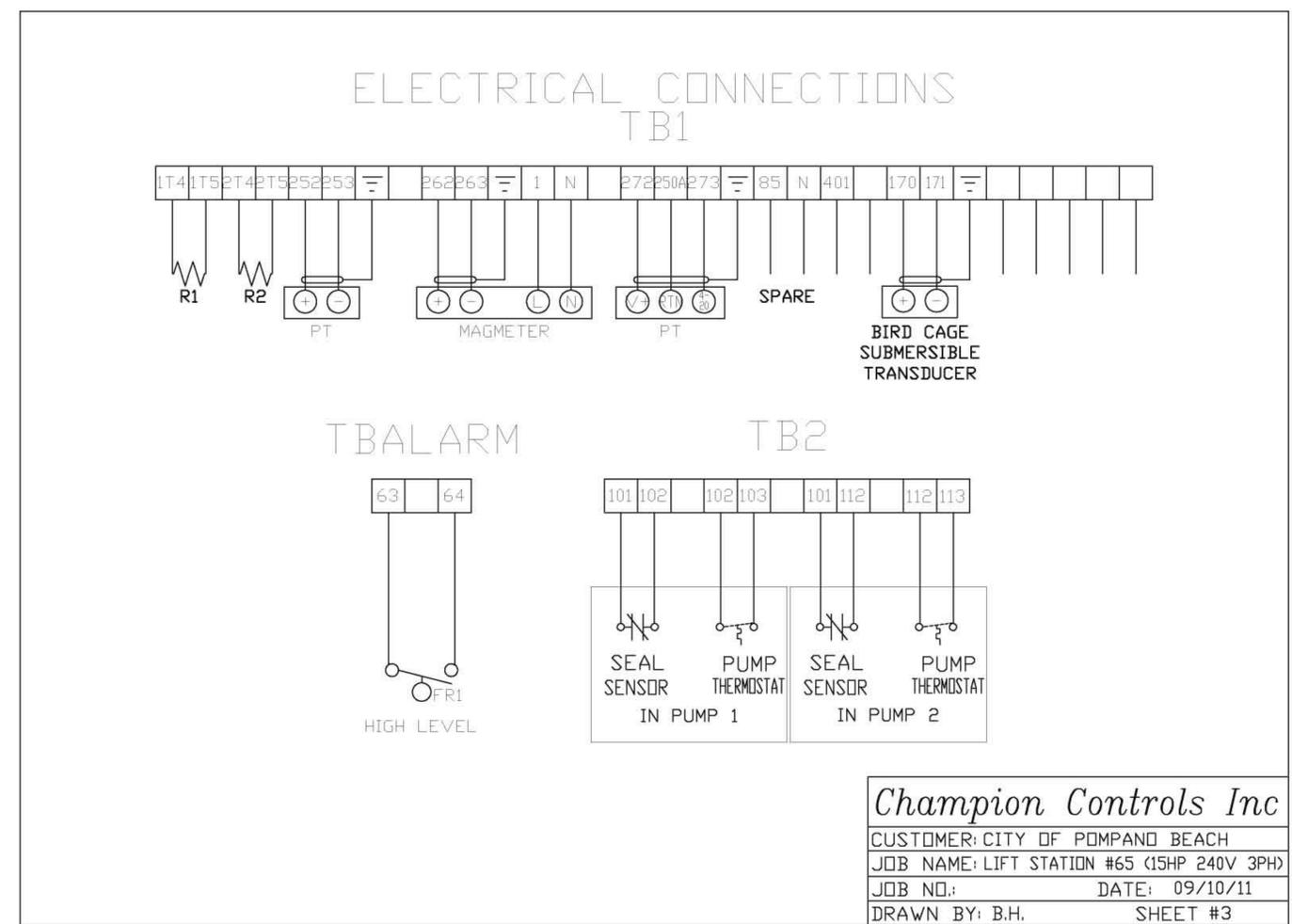


EAC Consulting, Inc.
CA # 7011
815 NW 57th AVE, SUITE 402
MIAMI, FL 33126
(305) 265-5400



PUMP STATION #65
REHABILITATION

100% SUBMITTAL



240 VOLT								
HP	MOTOR AMP	STARTER SIZE	CONDUCTOR A	PUMP CB	MAIN/EMER CB	CONDUCTOR B	GEN. PLUG.	SERVICE RACEWAY
3	9.6	1	12	20	100	1 (44A)	100	1 1/2"
5	15.2	1	10	40	100	1 (58A)	100	1 1/2"
7.5	22	2	10	50	125	1 (75A)	100	1 1/2"
10	28	2	8	70	125	1 (90A)	100	1 1/2"
12	42	3	6	100	175	1 (125A)	100	1 1/2"
20	54	3	4	150	225	1 (155A)	100	1 1/2"
25	68	4	4	175	300	1 (190A)	100	2"
30	80	4	3	200	300	1 (220A)	100	2"



THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.

DRAWING ISSUED

SUBMITTAL	No.	DESCRIPTION	DATE	BY
REVIEW 60 %				
REVIEW 90 %				
REVIEW 100 %			09/12/11	TBL
PERMIT	\$			
REVISION	No.	DESCRIPTION	DATE	BY

DESIGNED : VNW CHECKED : RBC
DRAWN : VNW FINAL CHECK BY : RBC

ROBERT B. CAINE, P.E.
STATE OF FLORIDA - LICENSE NO. 37637
DATE : AUGUST, 2011 SCALE : AS SHOWN

DWG TITLE: CONTROL PANEL WIRING DIAGRAM

DWG No. E.4.0

NOT PART OF BROWARD COUNTY APPROVAL. DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"X36". THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET ENGINEER OF RECORD DOES NOT WARRANT ACCORDING TO DRAWING SCALE.



CITY OF POMPANO BEACH, BROWARD COUNTY, FL

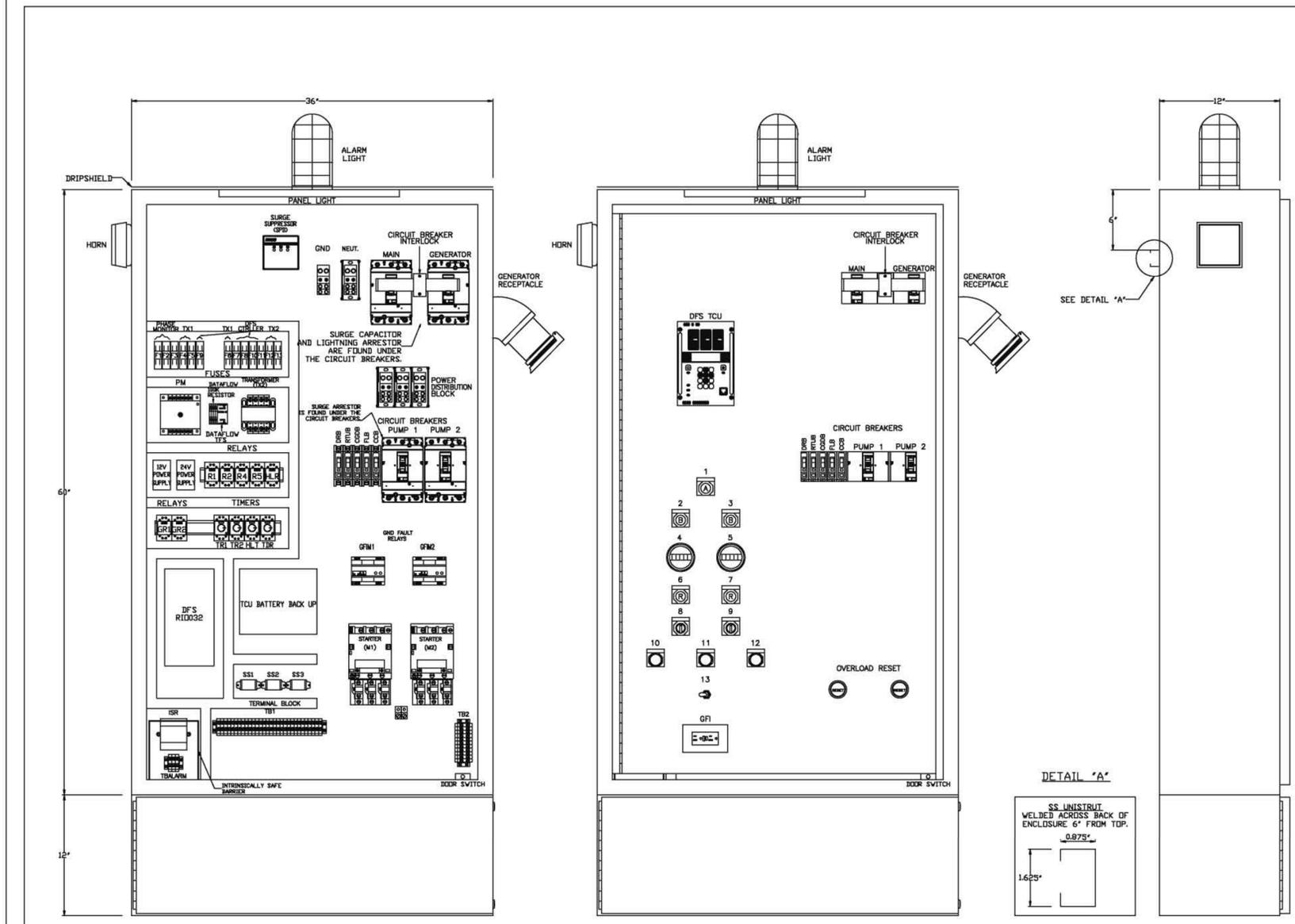
1201 NE 5th AVE POMPANO BEACH, FL 33060



EAC Consulting, Inc. CA # 7011 815 NW 57th AVE, SUITE 402 MIAMI, FL 33126 (305) 265-5400



PUMP STATION #65 REHABILITATION 100% SUBMITTAL



PT #	QTY	MANUFACTURER	PART #	DESCRIPTION
1	1	CHAMPION	72X36X12 3R 3/8 S/S	NEMA 3R S/S ENCLOSURE
2	1	AUSTIN	ENCLOSURE HANDLE KIT	3 POINT LATCH
3	2	SQUARE D	85-36758A	CIRCUIT BREAKER - DISCONNECT WITH OWNERS
4	4	SQUARE D	QB115	CIRCUIT BREAKER
5	1	SQUARE D	864105	CIRCUIT BREAKER
6	2	SQUARE D	HJL3600-472	PUMP MOTOR CIRCUIT PROTECTOR
7	2	SQUARE D	PIC3000	POWER DISTRIBUTION LUGS
8	1	SQUARE D	908LBA36104	POWER DISTRIBUTION BLOCK
9	1	BELTA	LAS3	LIGHTNING ARRESTOR
10	1	BELTA	CA60	SURGE CAPACITOR
11	6	SQUARE D		HEATERS
12	2	SQUARE D	9066RA1	OVERLOAD RESET
13	2	SQUARE D	8536-SD1V8S	NEMA RATED SIZE 3 STARTERS
14	2	SQUARE D	9099 SV-6	MIL AIR CONTACT
15	4	LITTEL FUSE	KLK1	1A FUSE
16	1	LITTEL FUSE	KLK2	5A FUSE
17	1	LITTEL FUSE	KLK3	10A FUSE
18	3	LITTEL FUSE	KLK8	1A FUSE
20	1	FERRAZ SHAWMUT	30301	FUSE HOLDER
21	1	FERRAZ SHAWMUT	30302	FUSE HOLDER
22	1	FERRAZ SHAWMUT	30303	FUSE HOLDER
23	1	FERRAZ SHAWMUT	30305	FUSE HOLDER
24	1	EDWARDS	41	MAGNETIC SWITCH
25	1	SQUARE D	9001 K1A81	AMBER P-I-T PILOT LIGHT
26	2	SQUARE D	9001 K1A81	RED P-I-T PILOT LIGHT
27	2	SQUARE D	9001 K1A81	BLUE P-I-T PILOT LIGHT
28	1	SQUARE D	9001 K1A81	PUSH BUTTON
29	2	SQUARE D	9001 K1A81	PUSH BUTTON (ALM/PUMP)
30	1	CAM ACTION	20444-73	SWITCHES (CRST DRIFT)
31	2	SQUARE D	9001-K5438H12	HULL SWITCH
32	1	GENS SENSUR	22445	INTRINSICALLY SAFE RELAY
33	1			WITH BARRIER
34	2	BENDER	RCM465Y-913	GROUND FAULT MONITOR
35	1	INVERTECH	SL-440-ALE	PHASE MONITOR
36	2	TELECANIQUE	RUMCAB97	RELAY
37	2	TELECANIQUE	RUMCAB97	RELAY
38	2	TELECANIQUE	RUMCAB97	RELAY
39	1	TELECANIQUE	RUMCAB97	RELAY
40	3	CUSTOM CONNECT	F511	RELAY SOCKET
41	10	CUSTOM CONNECT	F58	RELAY SOCKET
42	2	ATC	339A35918X	24V TIMER
43	2	ATC	339A35926X	24V TIMER
44	2	FERRAZ SHAWMUT	47501	DISTRIBUTION BLOCK
45	1	SQUARE D	908LBA36104	DISTRIBUTION BLOCK
46	2	REEDINGTON	710-3002	ELAPSED TIME METER
47	2	ILSCO	TA-2	GROUND LUGS
48	5	SQUARE D	9080-0M6B	TERMINAL END BARRIER
49	10	SQUARE D	9080-0M0	TERMINAL END CLAMP
50	62	SQUARE D	9080-0R6	TERMINALS
51	1	FEDERAL SIGNAL	350-120	HORN
52	1	RAB	VCI	LED PANEL LIGHT
53	1	RAB	VCI	LIGHT BASE
54	1	RAB	FS125	LIGHT CLASPER
55	1	RAB	GL100PR	LIGHT LUBE (RED)
56	1	RAB	GL100BAR	LIGHT GUARD KIT
57	1	PASS & SECHOUR	1925-1	RECEPTACLE
58	1	HUBBELL	SS25	S/S RECEPTACLE COVER
59	1	SQUARE D	9070100H12	100VA TRANSFORMER
60	1	PER CITY'S LATEST STANDARD		GENERATOR RECEPTACLE ANGLE ADAPTER
61	1	PER CITY'S LATEST STANDARD		GENERATOR RECEPTACLE
62	1	PULS	HL30100	PIVOT SUPPLY
63	1	BLUE RIBBON	MODEL BC001	SUBMERSIBLE BI-DIRECTIONAL LEVEL TRANSMITTER
64	1	DELIX	245-03	SURGE SUPPRESSOR INLET (CSPD)
65	1	BATA FLOW SYSTEMS	RTU PACKAGE	RTU PACKAGE
66	1	BATA FLOW SYSTEMS	RTU PACKAGE	RTU PACKAGE
67	1			
68	1			
69	1	POLYPHASER		CDAX SURGE PROTECTOR
70	1	BATA FLOW SYSTEMS	RID-032	INPUT/OUTPUT DEVICE
71	1			MAIN VOLT
72	1	BATA FLOW SYSTEMS		RF PARTIAL
73	1	BATA FLOW SYSTEMS		SNMP INSTALL KIT
74	1	BATA FLOW SYSTEMS		12V SHM BATTERY
75	1	BATA FLOW SYSTEMS	END OF RTU PACKAGE	ANTENNA SUBSYSTEM
76	2	DELIX		SURGE SOCKET
77	2	DELIX	POK42C-636	SURGE SUPPRESSOR

NOTES:
 1. ENCLOSURE SHALL BE NEMA 3R, 316 STAINLESS STEEL WITH HANDLE AND 3 POINT LATCH AND DOOR POCKET
 2. ENCLOSURE DIMENSIONS ARE 60"H X 36"W X 12"D
 3. BASE TO HAVE HINGED FRONT DOOR AND REAR SCREW COVERS

DOOR OPERATOR TABLE:-
 1 HIGH LEVEL PILOT LIGHT (AMBER)
 2 PUMP 1 FAIL PILOT LIGHT (BLUE)
 3 PUMP 2 FAIL PILOT LIGHT (BLUE)
 4 ALARM SILENCE PUSH BUTTON (ARB)
 5 PUMP 1 ELAPSED TIME METER
 6 PUMP 1 RUN PILOT LIGHT (RED)
 7 PUMP 2 RUN PILOT LIGHT (RED)
 8 PUMP 1 H-O-A SWITCH
 9 PUMP 2 H-O-A SWITCH
 10 ALARM SILENCE PUSH BUTTON
 11 HIGH ALARM RESET PUSH BUTTON (ARB)
 12 HIGH ALARM TEST PUSH BUTTON (PB1)
 13 INTERIOR LIGHT SWITCH

Champion Controls Inc
 CUSTOMER: CITY OF POMPANO BEACH
 ITR NAME: LIFT STATION #65 (15HP 240V 3PH)



THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY ALL PERMITTING AND JURISDICTIONAL AGENCIES HAVE BEEN OBTAINED. CONSTRUCTION WITHOUT SAID APPROVALS IS AT SOLE RISK TO CONTRACTOR. ENGINEER IS NOT RESPONSIBLE FOR CHANGES MADE DUE TO PERMITTING/JURISDICTIONAL DIRECTIONS, IF CONSTRUCTION PROCEEDS WITHOUT DUE AUTHORIZATION/APPROVALS.

DRAWING ISSUED

SUBMITTAL	No.	DESCRIPTION	DATE	BY
REVIEW	60 %			
REVIEW	90 %			
REVIEW	100 %			
PERMIT	\$		08/12/11	TBL
REVISION	No.	DESCRIPTION	DATE	BY

DESIGNED : VNW CHECKED : RBC
 DRAWN : VNW FINAL CHECK BY : RBC

ROBERT B. CAINE, P.E.
 STATE OF FLORIDA - LICENSE NO. 37637
 DATE: AUGUST, 2011 SCALE: AS SHOWN
 DWG TITLE: CONTROL PANEL LAYOUT
 DWG No. E.4.2

NOT PART OF BROWARD COUNTY APPROVAL. DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"X36". THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET ENGINEER OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.

