



PUMP STATION #81 REHABILITATION

CITY OF POMPANO BEACH

1201 NE 5th AVE - POMPANO BEACH, FL 33060

PROJECT NO. 08968



PROJECT LOCATION
(NW 3RD AVE AND NW 18TH 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. POTTIER (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
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
SPECIFICATION
- E.4.4 ELECTRICAL DETAILS

TOTAL NUMBER OF DRAWINGS : 14



THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY 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. 64718

BROWARD COUNTY BUREAU OF WATER AND WASTE WATER SERVICES
GENERAL PIPELINE NOTES

1. ALL MATERIALS, INSTALLATION, TESTING AND SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BROWARD COUNTY WATER AND WASTEWATER SERVICES (BCWWS) "MINIMUM STANDARDS", BROWARD COUNTY ENGINEERING DMSION STANDARDS AND THE TECHNICAL SPECIFICATIONS (WHEN APPLICABLE). WHERE DISCREPANCIES, OMISSIONS OR MODIFICATIONS EXIST BETWEEN THE PLANS AND THE STANDARDS, THE PLANS SHALL GOVERN.
2. LOCATION OF EXISTING UNDERGROUND UTILITIES HAVE BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL PERTINENT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSI A21.51/AWWA C151/PRESSURE CLASS 350 FOR 4" - 24", AND CLASS 250 FOR 3 FLANGED FITTINGS. ALL PIPE AND FITTINGS SHALL BE LINED WITH PROTECTO 401, 40 MILS THICK, OR APPROVED EQUAL.
4. MINIMUM COVER FOR DUCTILE IRON PIPE SHALL BE 30" OR UNLESS OTHERWISE SPECIFIED
5. ALL PRESSURE MAINS SHALL BE HYDROSTATICALLY PRESSURE TESTED FOR A PERIOD OF NOT LESS THAN 2 HOURS AT 150 PSI WITH AN ALLOWABLE LEAKAGE NOT TO EXCEED THE FORMULA:

$$L = 50 \sqrt{P/148,000}$$

IN WHICH - L - EQUALS ALLOWABLE LEAKAGE IN GALLONS/HOUR
S - EQUALS LENGTH OF PIPE IN FEET
D - EQUALS NOMINAL DIAMETER OF PIPE IN INCHES
P - EQUALS AVERAGE TEST PRESSURE DURING TEST IN LBS/SQ IN
ALL TESTING SHALL BE MADE IN ACCORDANCE WITH ANSI/AWWA C600-93 (HYDROSTATIC TESTS) AND C651-92 (WATER MAIN BACTERIOLOGICAL TESTS)

6. ALL MECHANICAL JOINTS SHALL BE RESTRAINED IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND IN COMPLIANCE WITH AWWA STANDARDS
7. ALL PIPE DENOTED "ABANDON, PLUG AND GROUT" SHALL BE EMPTIED, FLUSHED OUT AND COMPLETELY FILLED WITH GROUT. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE LOCAL, FEDERAL AND STATE ENVIRONMENTAL REQUIREMENTS.

BROWARD COUNTY BUREAU OF WATER AND WASTEWATER SERVICES
PORTABLE WATER-SEWER SYSTEM REUSE WATER SEPERATION NOTES:

1. SANITARY AND STORM SEWER SYSTEMS SHOULD CROSS UNDER PORTABLE WATER MAINS WHENEVER PHYSICALLY POSSIBLE. SEWER SYSTEMS CROSSING POTABLE WATER MAINS SHALL BE LAD TO PROVIDE A MINIMUM VERTICAL SEPERATION DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE IF SEWER MAIN IS ABOVE WATER MAIN AND 6 INCHES IF BELOW WATER MAIN.
 - A- WHERE SANITARY AND STORM SEWER SYSTEMS CROSS ABOVE A POTABLE WATER MAIN WITH LESS THAN THE REQUIRED MINIMUM 12 INCHES VERTICAL SEPERATION DISTANCE THEN THE SEWER SYSTEM AND THE POTABLE WATER MAIN PIPING MATERIAL MUST BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING (SEE 1B)
 - B- SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPERATION OF 10 FEET BETWEEN TWO JOINTS. ALL CROSSINGS SHALL ALWAYS BE ARRANGED SO THAT THE SEWER SYSTEM PIPE JOINTS AND THE POTABLE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON CROSSING). A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS. ADDITIONALLY, ALL JOINTS ON THE POTABLE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED.
2. A HORIZONTAL SEPERATION BETWEEN WATER AND SEWER MAINS OF 10 FEET IS PREFERRED HOWEVER 7 FEET IS ACCEPTABLE. IF THE HORIZONTAL PLANE OF THE SEWER IS MORE THAN 12 INCHES IN VERTICAL SEPERATION, THEN A HORIZONTAL SEPERATION OF 3 FEET IS ACCEPTABLE.
3. ALL DIP SHALL BE CLASS 50 OR HIGHER.

ENGINEER'S UTILITY NOTES:

1. PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF ALL PROPOSED PIPES, STRUCTURES, FRENCH DRAINS, WATER & SEWER APPURTENANCES OR OTHER PROPOSED SERVICES INCLUDING SUB-GRADE, SHALL BE PERFORMED SEVEN (7) DAYS IN ADVANCE OF ITS CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE UNDERGROUND UTILITY OWNERS AND THE CITY OF POMPANO BEACH WITH A MINIMUM OF SEVEN (7) DAYS ADVANCED NOTICE OF ANY CONFLICTS WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL INCLUDE, BUT NOT BE LIMITED, TO SURVEY INFORMATION ABOUT THE EXISTING UTILITY'S ALIGNMENT, GRADE AND EXTENT OF CONFLICT. PAYMENT FOR PRE-TRENCHING, SURVEY AND BACKFILLING MUST BE INCLUDED IN THE CONTRACTOR'S BID. IN THE EVENT THAT THE CONTRACTOR DOES NOT PRE-TRENCH, THEN ANY CONFLICTS THAT ARISE WILL BE CORRECTED AT NO EXPENSE TO THE OWNER.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH REMOVING/RELOCATING IN FULL OR IN PART, ANY UTILITY OR OBSTRUCTION FOUND ON THE SITE THAT CONFLICTS WITH PROPOSED CONSTRUCTION. THESE COSTS MUST BE INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMISSION FROM THE CITY OF POMPANO BEACH AND THE OWNER OF THE UTILITY/OBSTRUCTION PRIOR TO RELOCATION/REMOVAL.
3. ALL EXISTING UTILITY SERVICES SHALL BE MAINTAINED WITH MINIMUM INTERRUPTION. THE EXPENSE RESULTING FROM UTILITY SERVICE INTERRUPTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 AND ALL OTHER UTILITY OWNERS AT LEAST 48 HOURS TO VERIFY THE EXACT LOCATION OF UTILITIES. THIS VERIFICATION OF UTILITY LOCATIONS MUST OCCUR PRIOR TO PERFORMING ANY EXCAVATIONS REGARDLESS OF ITS EXTENT. CONTRACTOR MUST COMPLY WITH CHAPTER 556 OF THE FLORIDA STATUTES. CONTRACTOR IS HEREBY NOTIFIED THAT OTHER NON-PUBLIC UTILITIES MAY EXIST WITHIN THE PROJECT LIMITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE WITH ALL SUCH UTILITY OWNERS, WHETHER PUBLIC OR NON-PUBLIC AS WELL AS OTHER APPLICABLE JURISDICTIONS PRIOR TO COMMENCING CONSTRUCTION.
5. THE PRESENCE OF BUILDINGS AND OTHER INFRASTRUCTURE ON-SITE SUGGESTS THAT EXISTING UTILITIES ARE ON-SITE. THE CONTRACTOR IS ADVISED TO INCLUDE COSTS IN THE BID FOR LOCATING THESE UTILITIES AND OTHER UNDERGROUND FACILITIES, WHICH MAY OR NOT BE SHOWN ON THE PLANS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THESE COSTS SHOULD ALSO INCLUDE THE REMOVAL, ABANDONMENT OR RELOCATION (PERMANENT OR TEMPORARY) OF SUCH FACILITIES. THE FINAL DISPOSITION OF ANY UTILITY MUST BE COORDINATED AND APPROVED BY THE CITY OF POMPANO BEACH. ANY UTILITIES THAT CONFLICT WITH THE PROPOSED CONSTRUCTION WILL BE REMEDIATED AT THE CONTRACTOR'S EXPENSE.

ENGINEER'S WATER & SEWER NOTES

1. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE APPROVED PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGE, DISRUPTION OF SERVICE OR DESTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK. THE CONTRACTOR MUST FIELD VERIFY ALL ON-SITE AND OFF-SITE UTILITIES THAT ARE REQUIRED TO PROVIDE SERVICES TO THE SITE. IT IS RECOMMENDED THAT THE CONTRACTOR PERFORM THIS UTILITY VERIFICATION PRIOR TO THE CONSTRUCTION OF ANY PART OF ANY UTILITY THAT ORIGINATES ON THE PROJECT SITE. IN THE EVENT THAT ANY CONNECTION BECOMES INFEASIBLE DUE TO SLOPES, GRADES, COVER, ELEVATIONS, DIFFERENCES IN MATERIAL TYPES, ETC., THE CONTRACTOR WILL BE REQUIRED TO RECTIFY THE SITUATION AT NO EXPENSE TO THE OWNER.
2. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON SITE. THE PLANS SHALL BE MADE AVAILABLE TO THE ENGINEER ON REQUEST.
3. ALL OTHER PUBLIC OR PRIVATE UTILITY FACILITIES NOT MENTIONED IN F.A.C. RULE 62-555.314 SHALL BE CONSTRUCTED AT LEAST 5 FEET FROM ANY WATER MAIN AS MEASURED FROM THE OUTSIDE BELL OF THE UTILITY PIPE.
4. WHEN THE 5 FEET SEPARATION BETWEEN PROPOSED AND EXISTING LINE IS NOT POSSIBLE, THE CONTRACTOR SHALL HAND DIG OR EXPOSE THE WATER PIPE(S) BEFORE PROCEEDING WITH POWER EQUIPMENT EXCAVATION.
5. IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH PARALLEL AND ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS.
6. CONTRACTOR MUST ADHERE TO ALL APPLICABLE REQUIREMENTS AS SPECIFIED IN THE CITY OF POMPANO'S BEACH MOST CURRENT PUBLICATION, "CONSTRUCTION STANDARDS AND SPECIFICATIONS".
7. THRUST BLOCKS/CONCRETE ANCHORS MUST BE PLACED AT CAPPING, TAPPING AND BEND POINTS IN ACCORDANCE WITH THE CITY OF POMPANO'S BEACH MOST RECENT PUBLICATION, "CONSTRUCTION STANDARDS AND SPECIFICATIONS".
8. TAPPING & SLEEVE CONNECTIONS TO CITY OF POMPANO BEACH OWNED MAINS SHALL BE COORDINATED WITH THE CITY PRIOR TO CONSTRUCTION.
9. TEMPORARY DISCONNECTION OF SERVICES FOR TIE-INS, RE-ROUTES AND NEW TAPS MUST BE COORDINATED WITH PROPERTY OWNERS AND THE CITY OF POMPANO BEACH UTILITY DEPARTMENT.
10. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. A TEMPORARY COVER WITH A CAPACITY OF HS-20 LOADING SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO THE CITY OF POMPANO BEACH.
11. ANY TRENCH MORE THAN 5 FEET DEEP, SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT (SECTION 553.60-553.64) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 C.F.R.S. 1926.650 SUBPART "P" INCLUDING ALL SUBSEQUENT REVISIONS. TRENCH AND DITCHES SHALL COMPLY WITH NECESSARY SECURITY AS PER RULE 38C-43.02 FAC AND 6A-2.095 (2). CONTRACTOR SHALL PROVIDE APPROPRIATE CERTIFICATION THAT HE HAS COMPLIED WITH THE ABOVE. SUCH CERTIFICATION MUST BE SUBMITTED PRIOR TO CLOSE OUT AND FOR PROJECT TO BE ACCEPTED AS COMPLETE.
12. SHOP DRAWINGS: MUST COMPLY WITH PROJECT GENERAL CONDITIONS AND APPLICABLE TECHNICAL SPECIFICATIONS.
13. CONTRACTOR SHALL REQUEST PRE-CONSTRUCTION MEETING WITH CITY OF POMPANO BEACH UTILITIES DEPARTMENT TO REVIEW PROCEDURES BEFORE ISSUANCE OF NOTICE TO PROCEED AND CONSTRUCTION WORK.
14. WATER MAINS AND SERVICE LINES MUST COMPLY WITH THE CITY OF POMPANO BEACH MOST RECENT PUBLICATION, "CONSTRUCTION STANDARDS AND SPECIFICATIONS, FLORIDA HEALTH DEPARTMENT STANDARDS, FLORIDA D.E.P., BROWARD COUNTY'S "MINIMUM STANDARDS" AND OTHER APPLICABLE JURISDICTIONAL CRITERIA AND REQUIREMENTS.
15. SANITARY SEWER MAINS AND SERVICE LATERALS MUST COMPLY WITH THE CITY OF POMPANO BEACH MOST RECENT PUBLICATION, "CONSTRUCTION STANDARDS AND SPECIFICATIONS, FLORIDA HEALTH DEPARTMENT STANDARDS, FLORIDA D.E.P., BROWARD COUNTY'S "MINIMUM STANDARDS" AND OTHER APPLICABLE JURISDICTIONAL CRITERIA AND REQUIREMENTS.
16. CONSTRUCTION DEBRIS SHALL NOT BE BURIED OR LEFT ON SITE DURING OR AFTER CONSTRUCTION TO AVOID IMPACTS ON PROPOSED WORK OR ALREADY CONSTRUCTED WORK.
17. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE SITE AND ALL ITS EXISTING ABOVE AND UNDERGROUND FEATURES. THERE MAY BE ELEMENTS NOT SHOWN ON THE PLANS THAT MAY REQUIRE DEMOLITION FOR WATER AND SEWER CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING IN THE CONSTRUCTION BID, THE COSTS ASSOCIATED WITH ANY AND ALL ITEMS THAT REQUIRE DEMOLITION, WHETHER SHOWN ON THE PLANS OR NOT AND MUST ALSO TAKE INTO CONSIDERATION THE COSTS ASSOCIATED WITH RESTORATION OF SUCH ELEMENTS TO EQUAL OR BETTER CONDITION AS EXISTED PRIOR TO CONSTRUCTION. FAILURE TO DO SO WILL BE AT THE CONTRACTOR'S EXPENSE.
18. MOT AND ROAD CLOSING IS AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST OBTAIN ALL REQUIRED PERMITS WITH ALL APPLICABLE AUTHORITY HAVING JURISDICTION.

ABBREVIATIONS

EOP	EDGE OF PAVEMENT	ELEV.	ELEVATION
MH	MANHOLE	INV.	INVERT
FM	FORCE MAIN	HDPE	HIGH DENSITY POLYETHYLENE
SAN	SANITARY SEWER	OHW	OVER HEAD WIRES
CL	CENTER LINE	WM	WATER MAIN
0.00 X	EXISTING ELEVATIONS		WATER METER
	EXISTING MANHOLE		BACK FLOW PREVENTOR
	EXISTING LIGHT POLE		ELECTRIC METER
PB	PLAT BOOK		WOOD POWER POLE
PG	PAGE		SANITARY SEWER BOX
N	NORTH		SINGLE SUPPORT SIGN
S	SOUTH		ANCHOR
E	EAST		BOLLARD / GUARD POST
W	WEST		EXIST VALVE
C.O.P	CITY OF POMPANO BEACH		
BCWWS	BROWARD COUNTY WATER & WASTEWATER SERVICES		



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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 #81
REHABILITATION

BID DOCUMENTS

DRAWING ISSUED

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

REVISION	No.	DESCRIPTION	DATE	BY

DESIGNED : JA	CHECKED : RB/GM
DRAWN : JA/DC/AR	FINAL CHECK BY : GM

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

DWG TITLE: GENERAL NOTES

DWG No. C.1.0

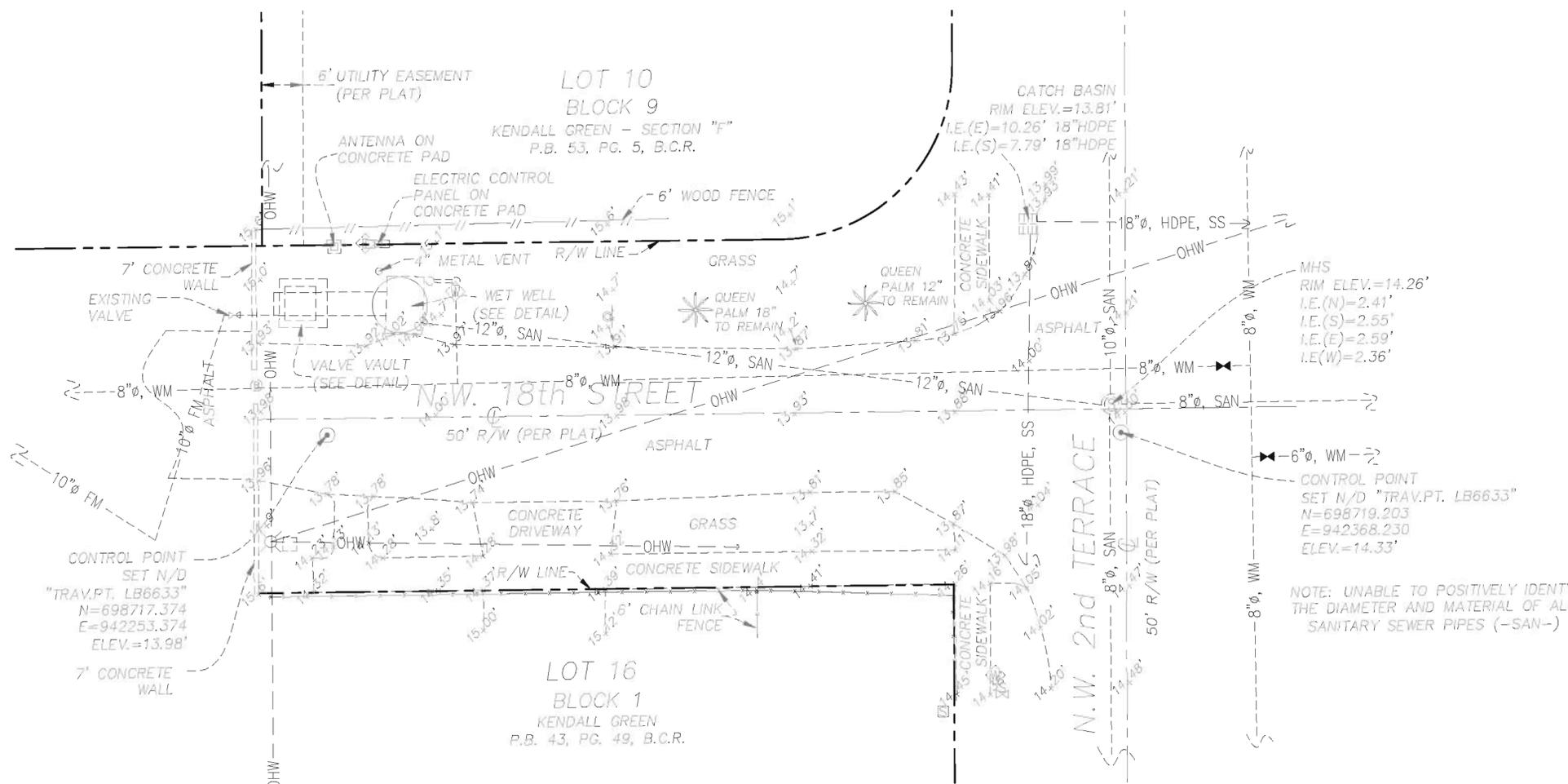
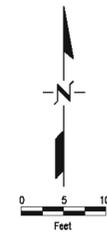


CITY OF POMPANO BEACH, BROWARD COUNTY, FL

1201 NE 5th AVE POMPANO BEACH, FL 33060



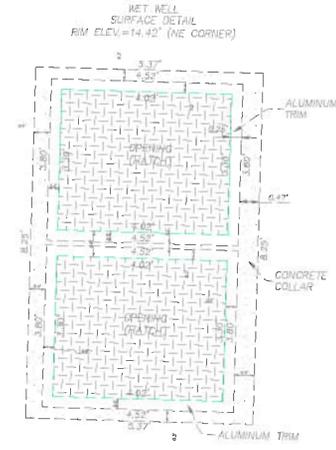
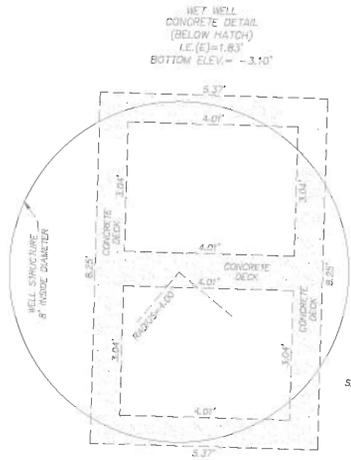
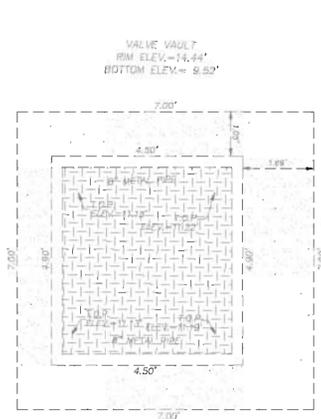
EAC Consulting, Inc. CA # 7011 815 NW 57th AVE, SUITE 402 MIAMI, FL 33126 (305) 265-5400



LEGEND:

---	EXISTING TOPOGRAPHY
---	RIGHT OF WAY (R/W)
---	EXISTING CENTER LINE
---	EDGE OF PAVEMENT
MH	MANHOLE
FM	FORCE MAIN
SAN	SANITARY SEWER
CL	CENTER LINE
ELEV.	EXISTING ELEVATIONS
SWMH	SANITARY SEWER MANHOLE
U	EXISTING UTILITY POLE
PG	PLAT BOOK
PC	PAGE
N	NORTH
S	SOUTH
E	EAST
W	WEST
ELEV.	ELEVATION
INV.	INVERT
HDPE	HIGH DENSITY POLYETHYLENE
OHW	OVER HEAD WIRES
WM	WATER MAIN
WM	WATER METER
BF	BACK FLOW PREVENTOR
EM	ELECTRIC METER
WP	WOOD POWER POLE
SSB	SANITARY SEWER BOX
SS	SINGLE SUPPORT SIGN
ANCH	ANCHOR
B	BOLLARD / GUARD POST
DV	DATE VALVE
DIP	DUCTILE IRON PIPE

NOTE: UNABLE TO POSITIVELY IDENTIFY THE DIAMETER AND MATERIAL OF ALL SANITARY SEWER PIPES (-SAN-)



- NOTE:
- THIS SHEET IS FOR REFERENCE ONLY AND IS NOT A SURVEY.
 - THE INFORMATION ON THIS PLAN HAS BEEN PROVIDED BY STONER & ASSOCIATES, INC. EAC CONSULTING, INC. ASSUMES NO RESPONSIBILITY FOR THE INFORMATION NOR THE ACCURACY OF THE INFORMATION PROVIDED ON THIS DRAWING.

PUMP STATION #81 REHABILITATION BID DOCUMENTS

DRAWING ISSUED

SUBMITTAL	No.	DESCRIPTION	DATE	BY
BID DOCS			05/2012	GM
REVISION	No.	DESCRIPTION	DATE	BY

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

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	-1.572

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

DWG TITLE: EXISTING CONDITIONS

DWG No. C.3.0

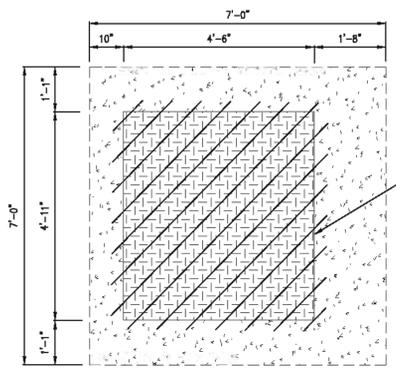
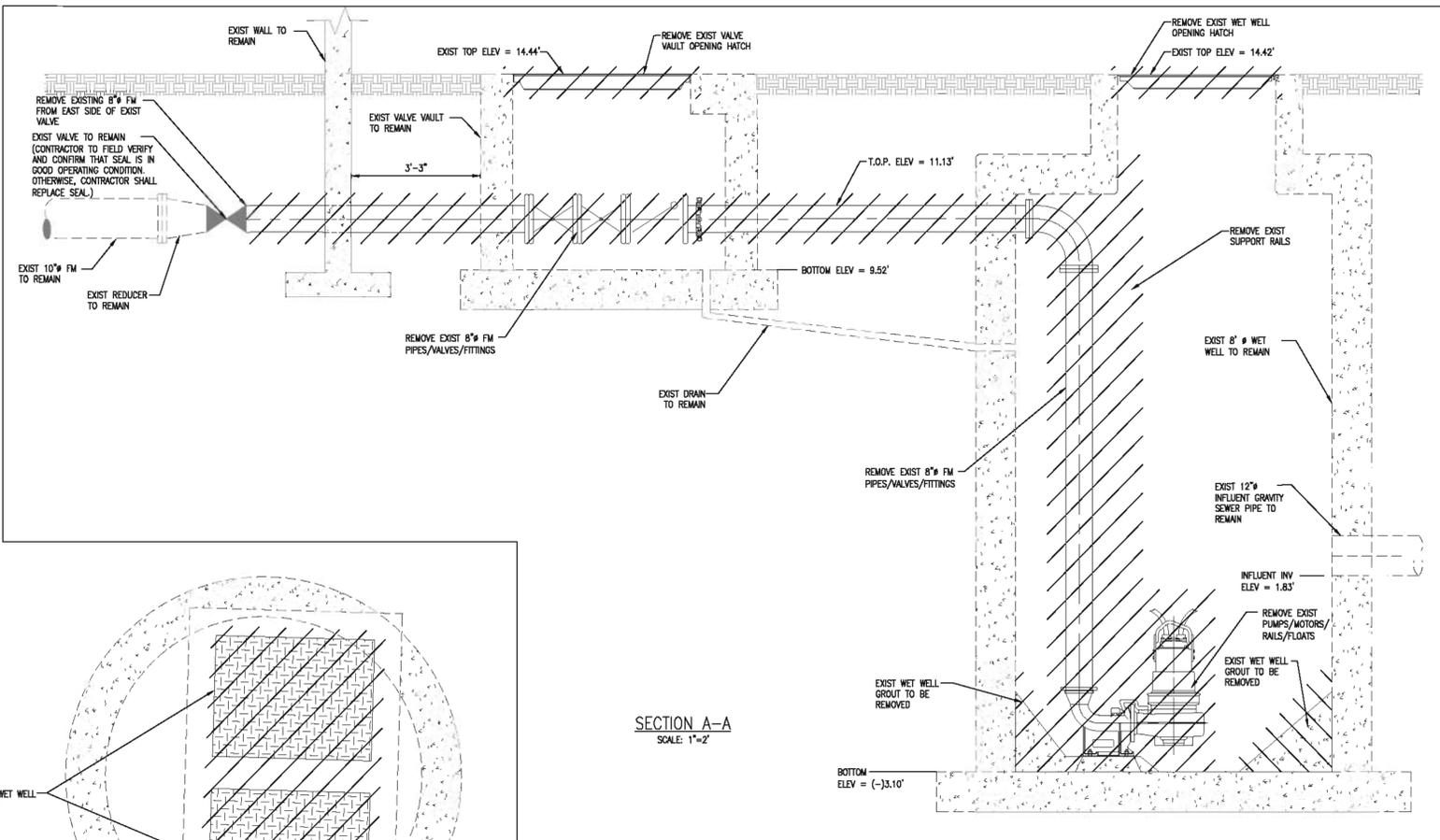


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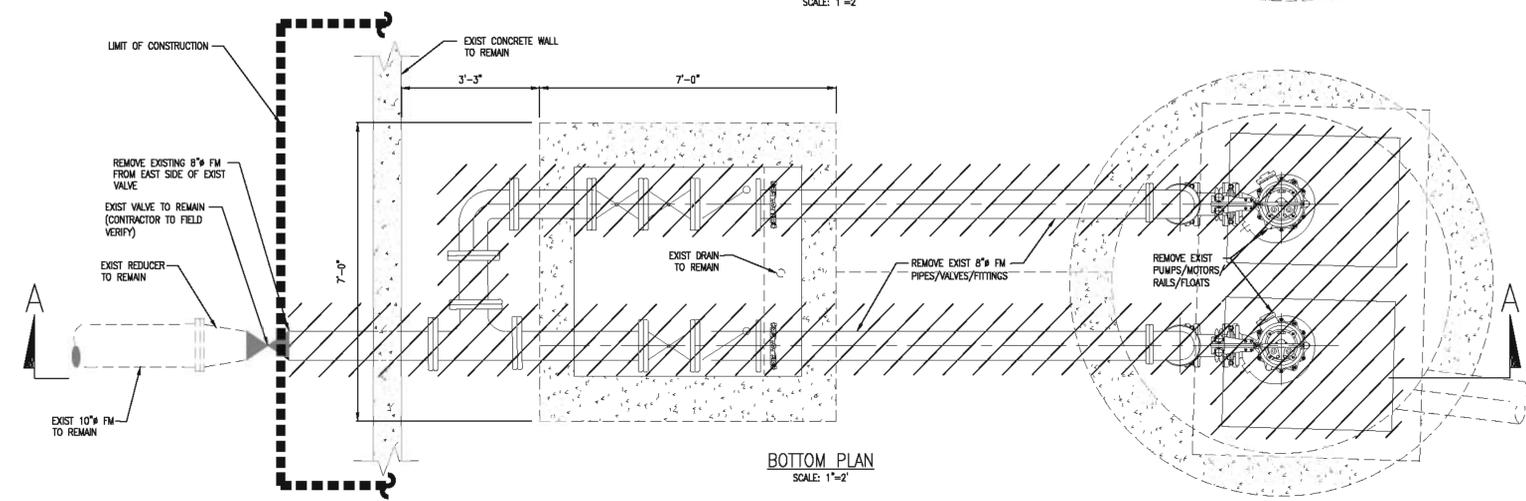
LEGEND:		PB PLAT BOOK	
	LIMITS OF CONSTRUCTION	PG PAGE	
	EXISTING TOPOGRAPHY	N NORTH	
	RIGHT OF WAY (R/W)	S SOUTH	
	EXISTING CENTER LINE	E EAST	
	TREE PROTECTION BARRIER TO REMAIN FOR DURATION OF CONSTRUCTION	W WEST	
	EDGE OF PAVEMENT	ELEV. ELEVATION	
	MANHOLE	INV. INVERT	
	FORCE MAIN	HDPE HIGH DENSITY POLYETHYLENE	
	SANITARY SEWER	OHW OVER HEAD WIRES	
	CENTER LINE	WM WATER MAIN	
	EXISTING ELEVATIONS	WM WATER METER	
	EXISTING MANHOLE	BFP BACK FLOW PREVENTOR	
	EXISTING LIGHT POLE	EM ELECTRIC METER	
		WPP WOOD POWER POLE	
		SSB SANITARY SEWER BOX	
		SSS SINGLE SUPPORT SIGN	
		ANCHOR	
		BOLLARD / GUARD POST	
		GV GATE VALVE	

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).

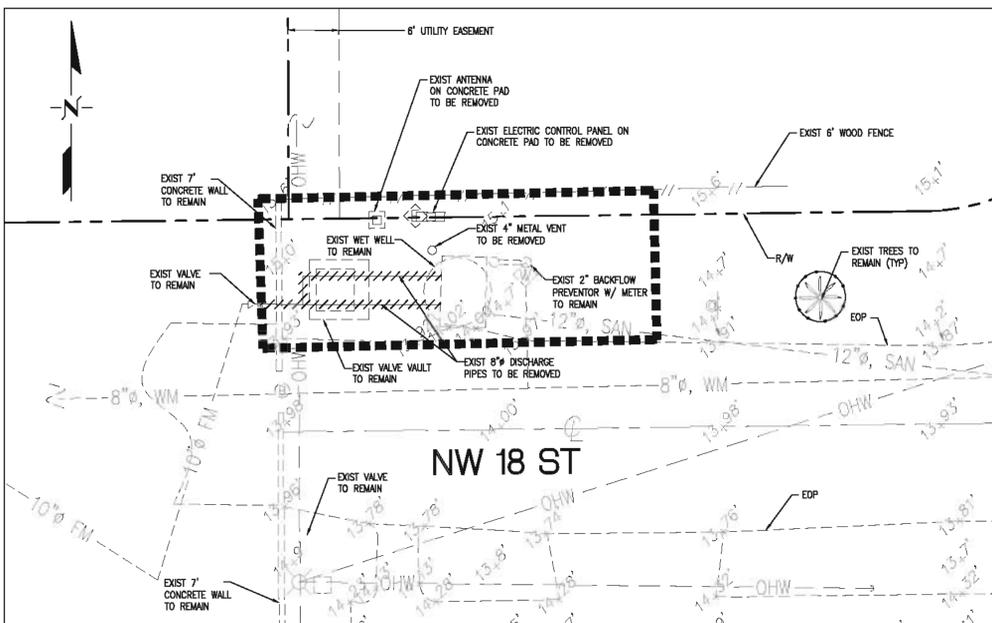
DATUM CONVERSION TABLE	
NGVD 1929	NAVD 1988
0.00	-1.572



TOP PLAN
SCALE: 1"=2'



BOTTOM PLAN
SCALE: 1"=2'



EXISTING SITE
SCALE: 1"=10'

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 AND LIMITS OF CONSTRUCTION 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 INCONVENIENCE 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.
- ONSITE 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 353.851 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 ONSITE AND OFFSITE 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 954-788-4154 TO COORDINATE WITH CITY AND DETERMINE WHAT ITEMS CAN BE SALVAGED.

THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY 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.

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It's fast. It's free. It's the law.
www.callsunshine.com

DRAWING ISSUED				
SUBMITTAL	No.	DESCRIPTION	DATE	BY
BID DOCS			05/2012	GM

REVISION				
No.	DESCRIPTION	DATE	BY	

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

DATE : JUNE 2012 SCALE : AS SHOWN

DWG TITLE: **DEMOLITION PLAN**

DWG No. **C.4.0**

DRAWING ISSUED

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

REVISION

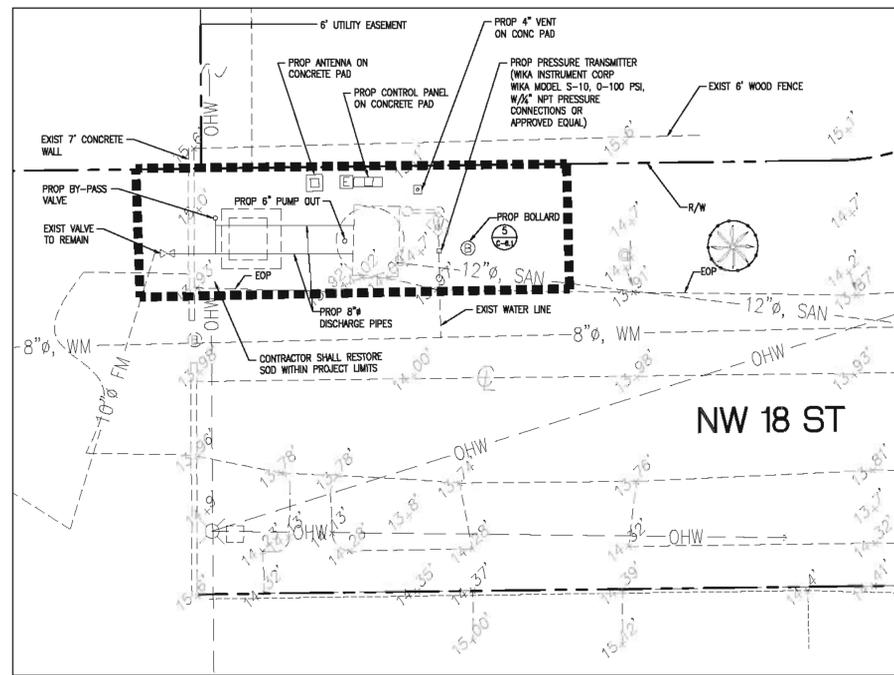
No.	DESCRIPTION	DATE	BY

DESIGNED : JA	CHECKED : RD/GM
DRAWN : JA/DG/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**



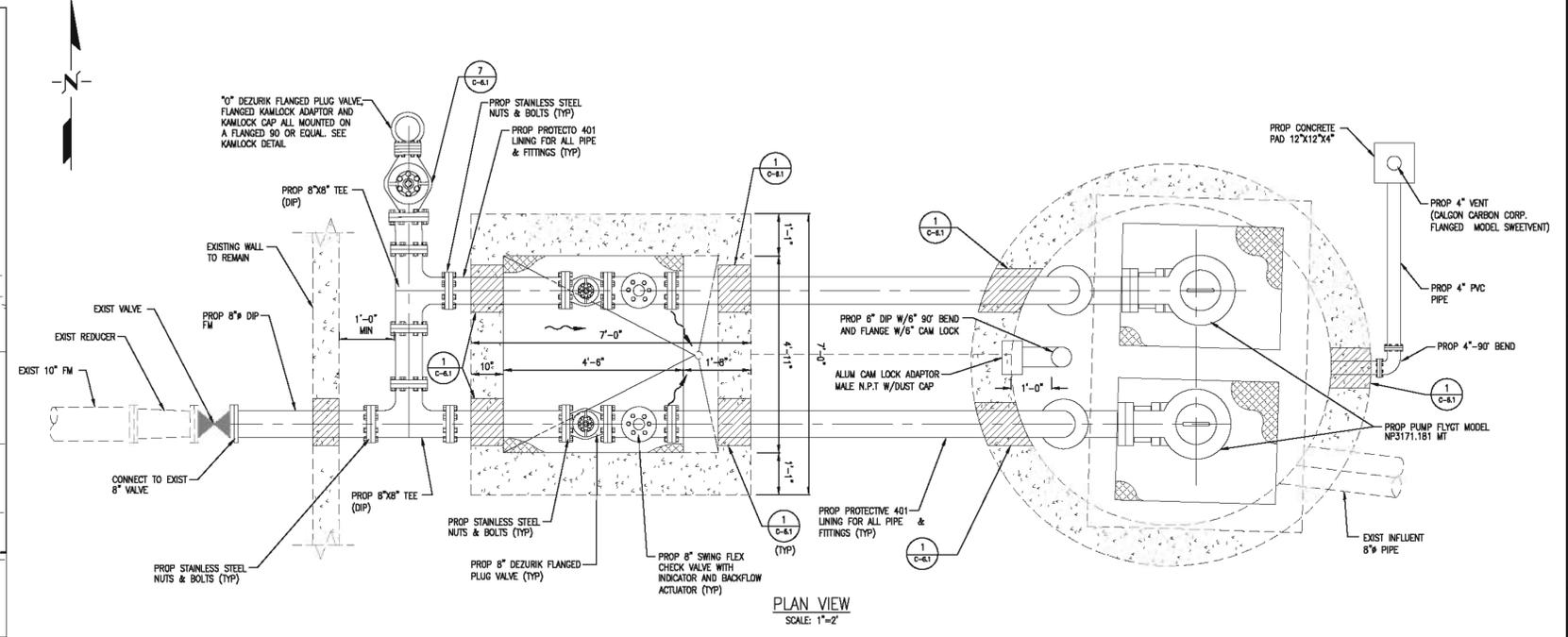
SITE PLAN
SCALE: 1"=10'

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).

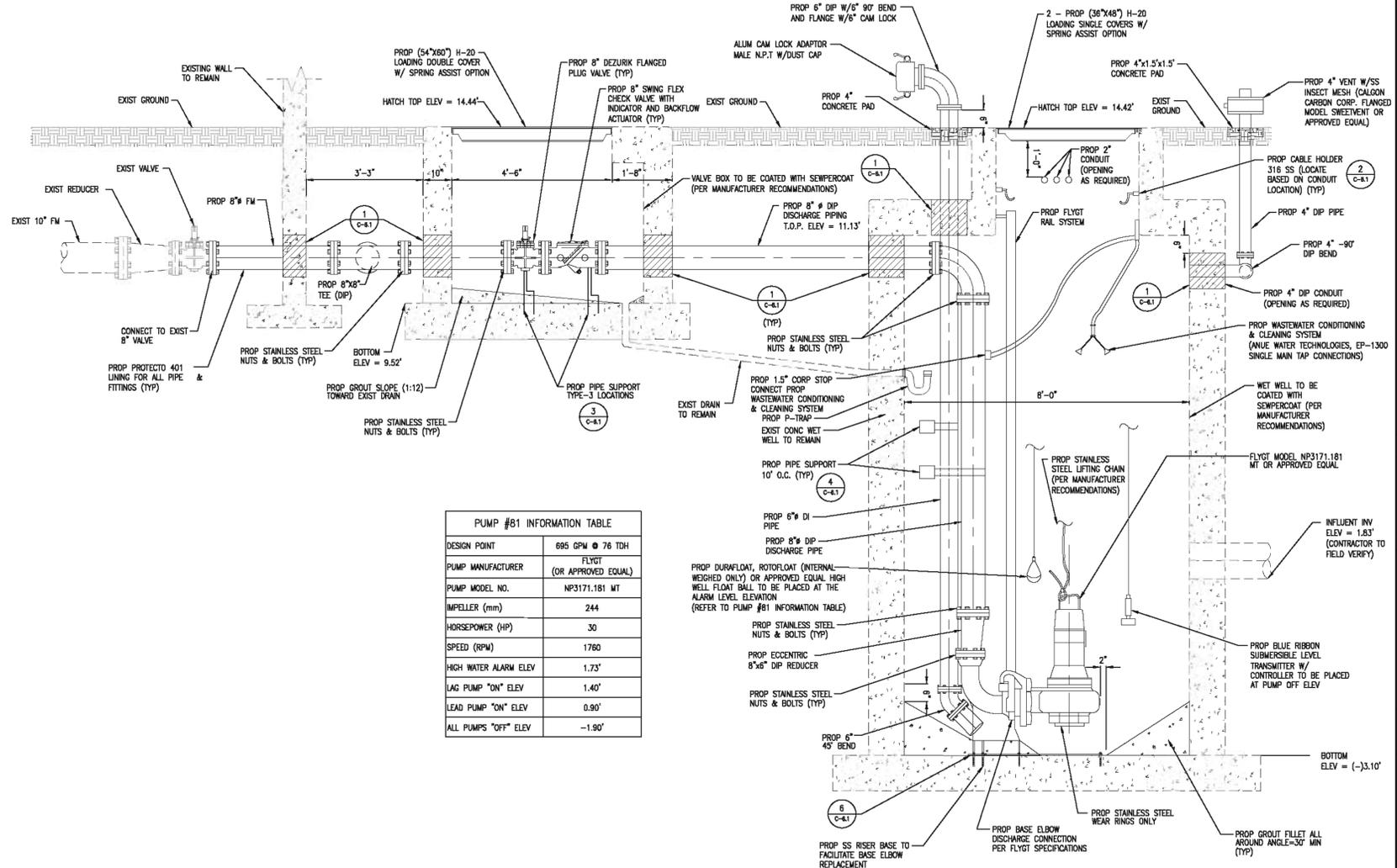
DATUM CONVERSION TABLE	
NGVD 1929	NAVD 1988
0.00	-1.572



THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY 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.

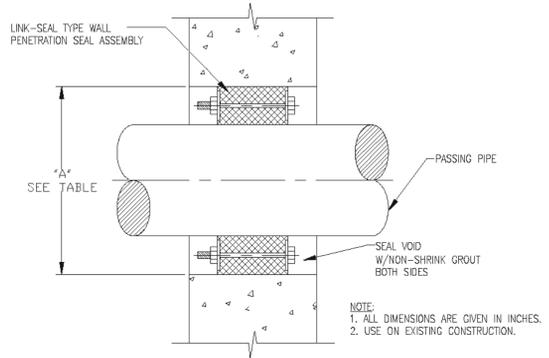


PLAN VIEW
SCALE: 1"=2'



ELEVATION VIEW
SCALE: 1"=2'

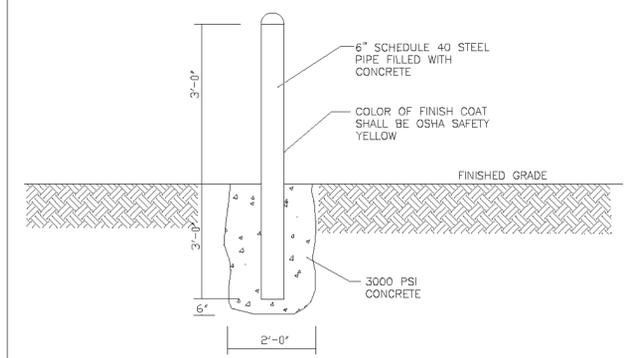
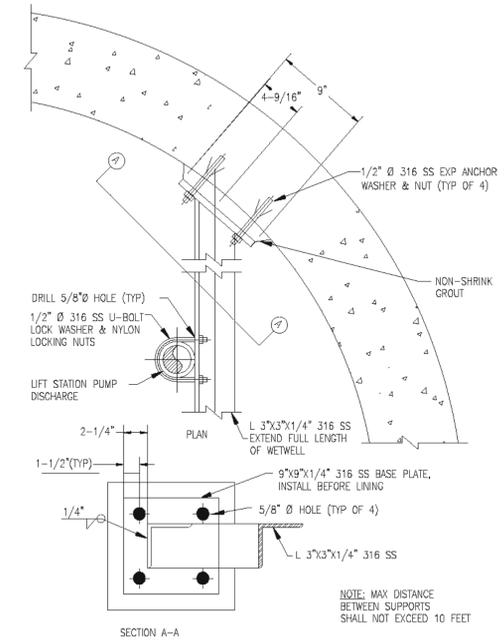
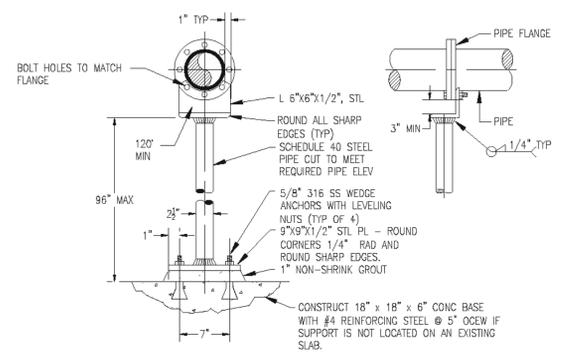
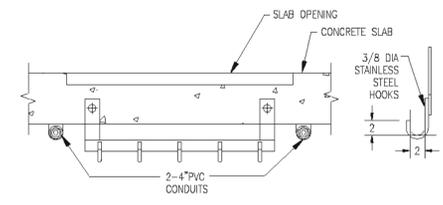
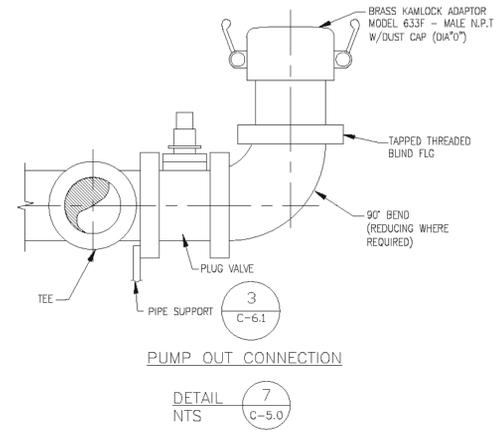
PUMP #81 INFORMATION TABLE	
DESIGN POINT	695 GPM @ 76 TDH
PUMP MANUFACTURER	FLYGT (OR APPROVED EQUAL)
PUMP MODEL NO.	NP3171.181 MT
IMPELLER (mm)	244
HORSEPOWER (HP)	.30
SPEED (RPM)	1780
HIGH WATER ALARM ELEV	1.73'
LAG PUMP "ON" ELEV	1.40'
LEAD PUMP "ON" ELEV	0.90'
ALL PUMPS "OFF" ELEV	-1.90'



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		

CORE DRILL PENETRATION

DETAIL 1
NTS C-5.0



ITT
Water & Wastewater

FP/NP-3171
Lift Station Dimensions

Issued: 2/09 | Supersedes: 2/08

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

BASE SECTION

BASE SECTION

ALL DIMENSIONS ARE IN INCHES

MODEL	NOM. SIZE	PERSON SIZE	SURF. SIZE	SIMPLEX					DUPLEX										
				A	B	C	D	S	T	U	V	W	Y						
NP	4"	SU	2"	22	8	8	4	192	153	72	91	224	32	221	151	84	112	253	32
NP	4"	SH	3"	4	8	8	4	109	151	72	91	222	34	221	179	84	112	222	33
FP/NP	4"	HT	2"	21	8	8	4	192	153	72	12	263	32	221	152	84	112	253	32
FP/NP	4"	HT	3"	1	8	8	4	192	154	72	12	264	36	222	173	84	112	254	35
FP/NP	6"	MT	2"	41	11	10	5	17	28	172	113	303	35	228	184	98	112	281	35
FP/NP	6"	MT	3"	23	11	10	5	17	114	72	113	303	37	258	201	98	112	261	37
NP	10"	LT	2"	164	198	10	5	23	15	96	122	37	43	284	178	120	22	391	43
NP	10"	LT	3"	144	192	10	5	23	144	96	122	37	45	284	194	120	22	391	45

DETAIL 6
NTS C-5.0



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CITY OF POMPANO BEACH, BROWARD COUNTY, FL
1201 NE 5th AVE
POMPANO BEACH, FL 33060



PUMP STATION #81 REHABILITATION

BID DOCUMENTS

DRAWING ISSUED

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

REVISION	No.	DESCRIPTION	DATE	BY

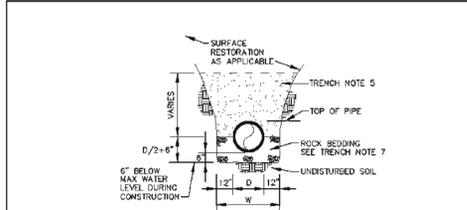
DESIGNED : JA CHECKED : RD/GM
DRAWN : JA/DG/AR FINAL CHECK BY : GM

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

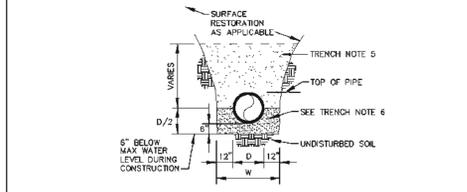
DATE : JUNE 2012 SCALE: NTS

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

DWG No. **C.6.1**

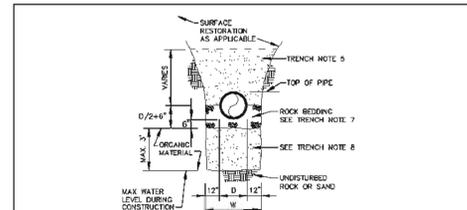


TRENCH BACKFILL / BEDDING CLASS "B"

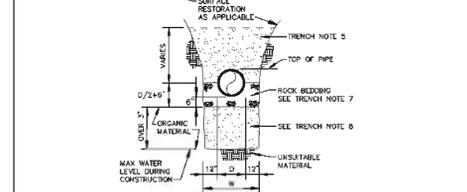


TRENCH BACKFILL / BEDDING CLASS "A"

REVISIONS		ENGINEERING DEPARTMENT	TRENCH BACKFILL / BEDDING
BY	DATE	CITY OF POMPANO BEACH	APPROVED BY: DATE: JUNE 1996
S.S.	JUNE 2000		DWG. NO. 201-1
SCALE: N.T.S.		CITY ENGINEER	



TRENCH BACKFILL / BEDDING CLASS "C"



TRENCH BACKFILL / BEDDING CLASS "D"

REVISIONS		ENGINEERING DEPARTMENT	TRENCH BACKFILL / BEDDING
BY	DATE	CITY OF POMPANO BEACH	APPROVED BY: DATE: JUNE 1996
S.S.	JUNE 2000		DWG. NO. 201-2
SCALE: N.T.S.		CITY ENGINEER	

1. 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.
2. TYPICAL TRENCH BACKFILL/BEDDING FOR WATER MAIN AND FORCE MAIN INSTALLATIONS SHALL BE CLASS "A" AS SHOWN IN DETAIL.
3. TYPICAL TRENCH BACKFILL/BEDDING FOR GRAVITY SEWER INSTALLATION SHALL BE CLASS "D" AS SHOWN IN DETAIL.
4. TRENCH BACKFILL/BEDDING CLASS "C" AND CLASS "D" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSUITABLE TRENCH MATERIALS ARE ENCOUNTERED.
5. 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).
6. BEDDING MATERIAL FOR TYPICAL WATER MAIN AND FORCE MAIN INSTALLATION SHALL BE TYPE C. BEDDING SHALL BE COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
7. 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).
8. 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 85% 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	APPROVED BY: DATE: JUNE 1996
S.S.	JUNE 2000		DWG. NO. 201-3
SCALE: N.T.S.		CITY ENGINEER	

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 30.
 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	20-55
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	APPROVED BY: DATE: JUNE 1996
S.S.	JUNE 2000		DWG. NO. 201-4
SCALE: N.T.S.		CITY ENGINEER	

PUMP STATION #81
REHABILITATION

BID DOCUMENTS

DRAWING ISSUED

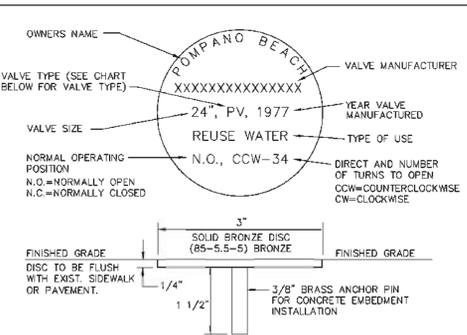
SUBMITTAL	No.	DESCRIPTION	DATE	BY
BID DOCS			05/2012	GM
REVISION	No.	DESCRIPTION	DATE	BY

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

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

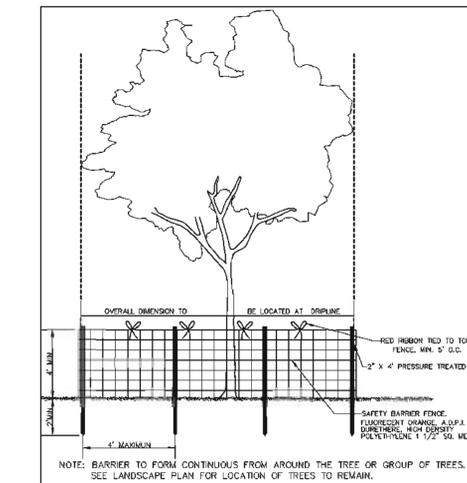
DWG TITLE: DETAILS (2 OF 2)

DWG No. C.6.2



UNDERGROUND VALVE IDENTIFICATION MARKER

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



LANDSCAPE STANDARDS

REVISIONS		URBAN FORESTRY	TREE PROTECTION DETAIL
BY	DATE	CITY OF POMPANO BEACH	APPROVED BY: DATE: APRIL 2010
TW	APRIL/10		DWG. NO. 104-1
SCALE: N.T.S.		URBAN FORESTER	



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CITY OF POMPA
NO BEACH, BROWA
RD COUNTY, FL

1201 NE 5th AVE
POMPA NO BEACH,
FL 33060



EAC Consulting, Inc.

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



MECHANICAL ELECTRICAL PLUMBING/FP PROTECTION

1540 EAST BURNING PALM BLVD SUITE 100
LAKELAND, FLORIDA 33809
P. 888.767.2222 F. 888.767.2222
WWW.PROJECTCANE.COM

PUMP STATION #81
REHABILITATION

100% SUBMITTAL

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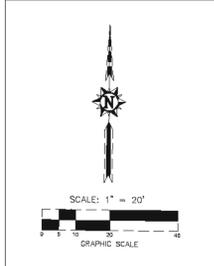
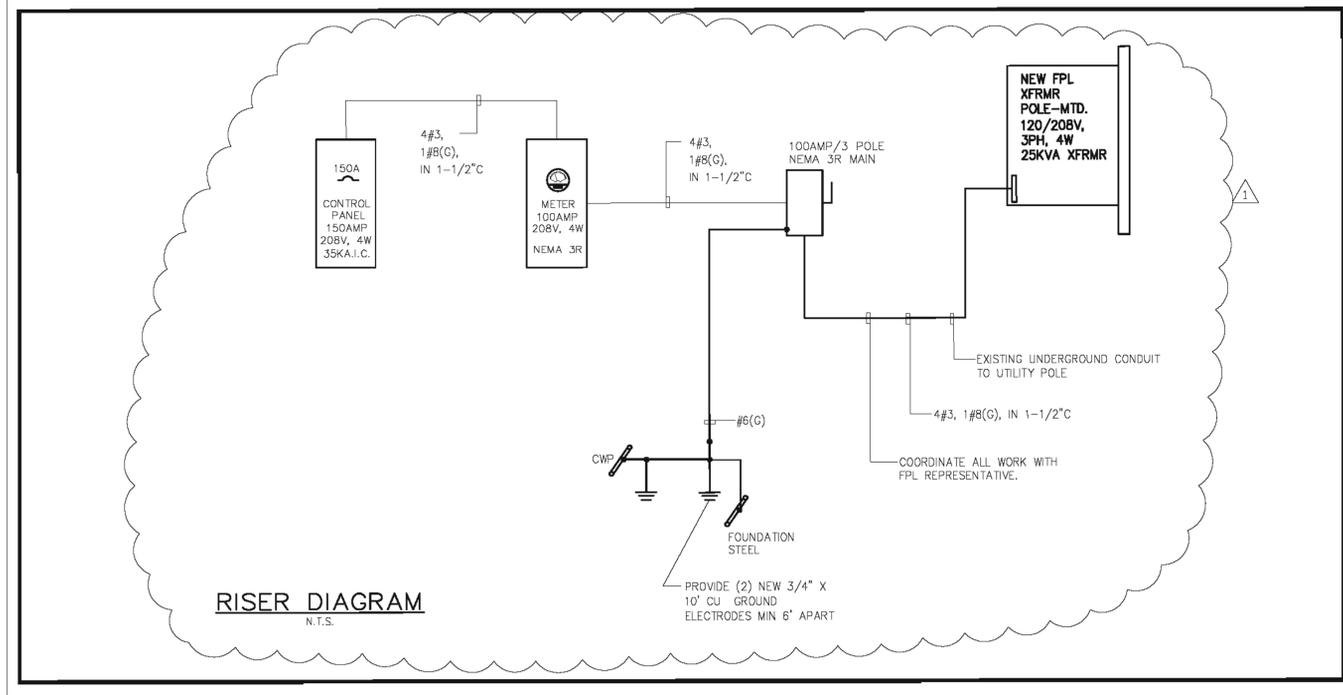
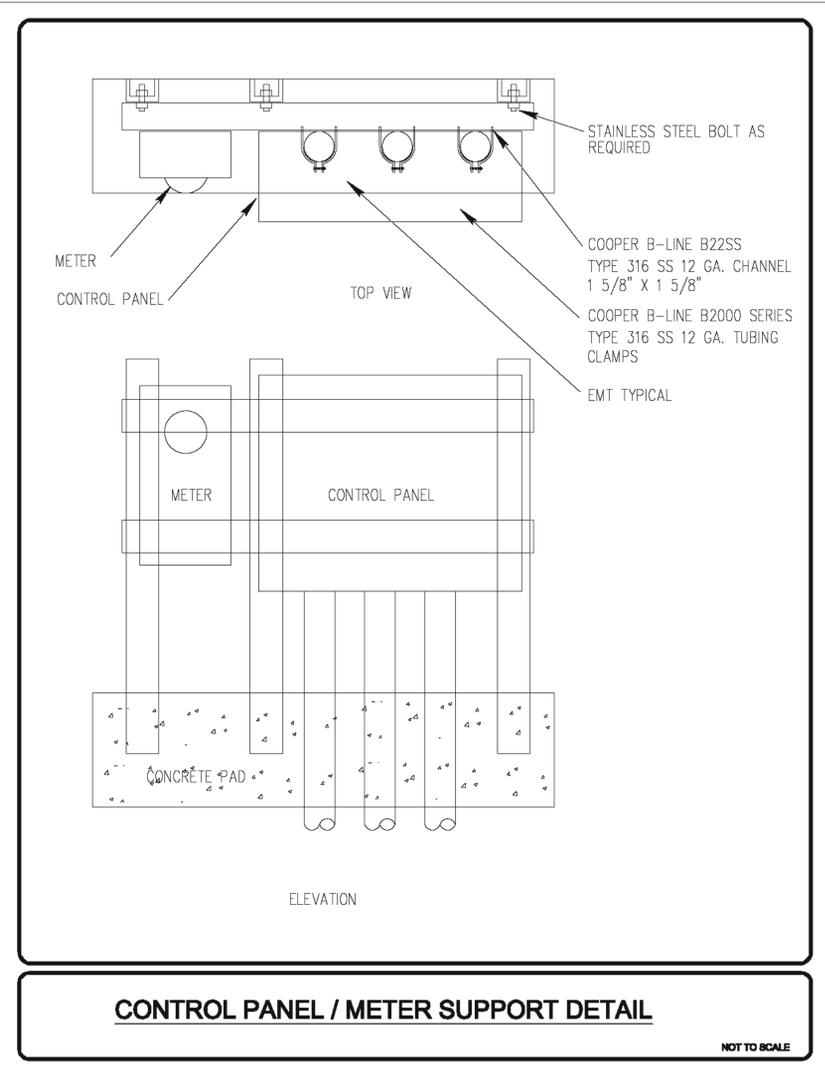
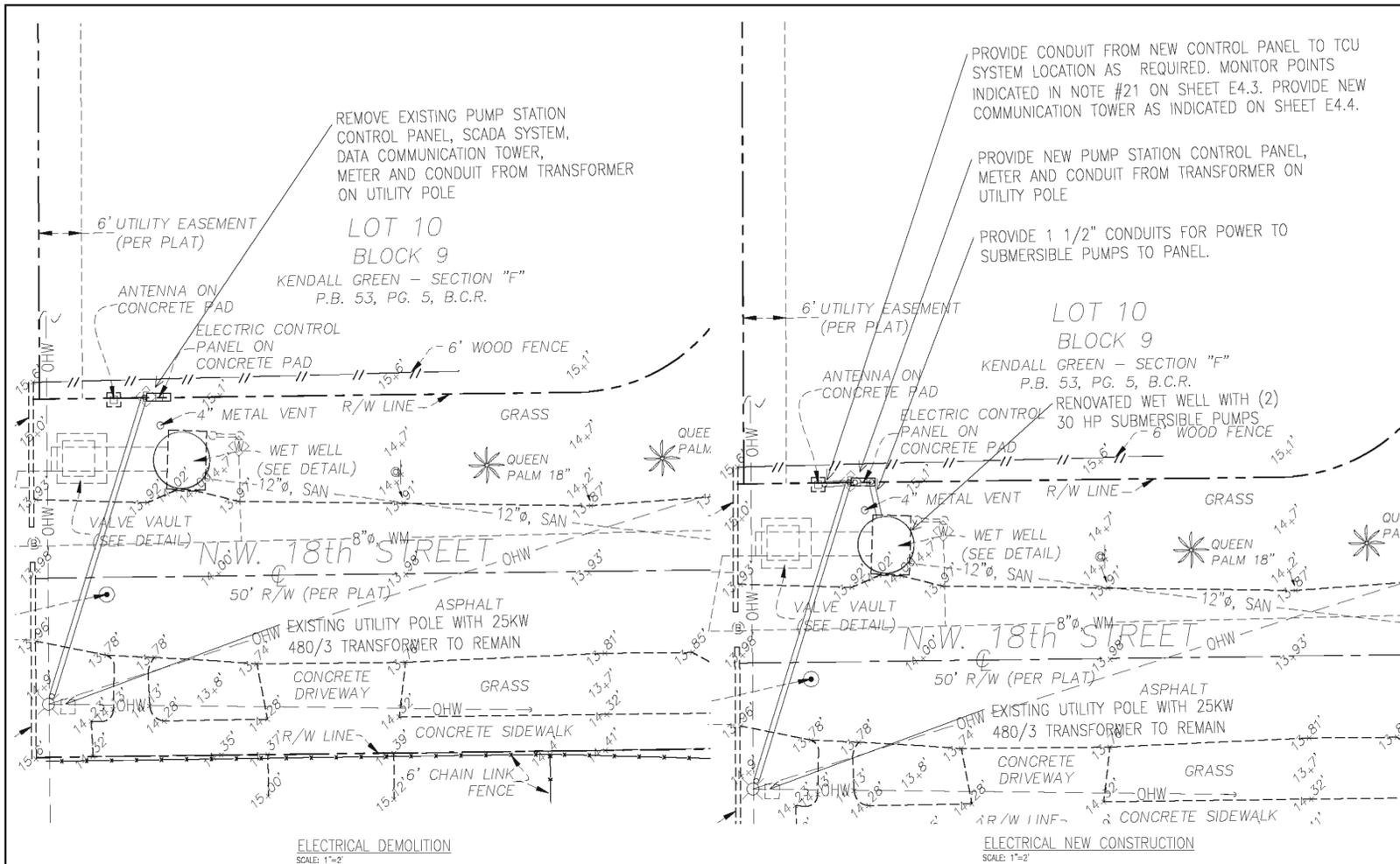
SUBMITTAL	No.	DESCRIPTION	DATE	BY
REVIEW	80 %			
REVIEW	90 %			
REVIEW	100 %			
PERMIT	φ		08/12/11	TBL
REVISION	No.	DESCRIPTION	DATE	BY
1		CITY COMMENTS	6/11/12	

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

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

DWG TITLE: **ELECTRICAL DEMOLITION/ NEW CONST.**

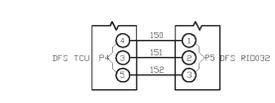
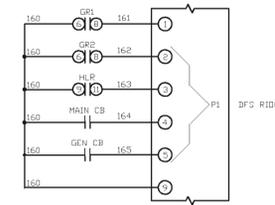
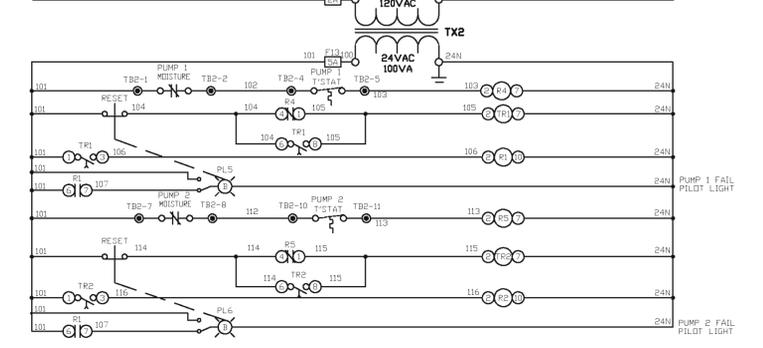
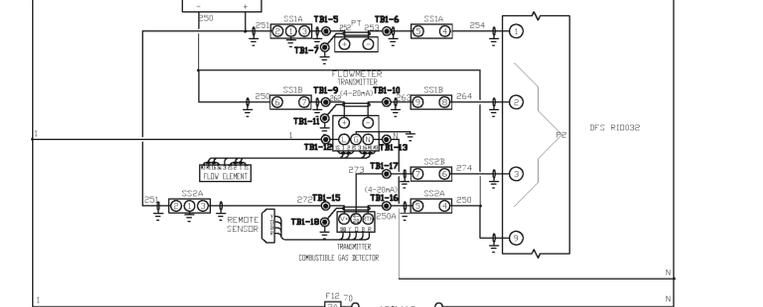
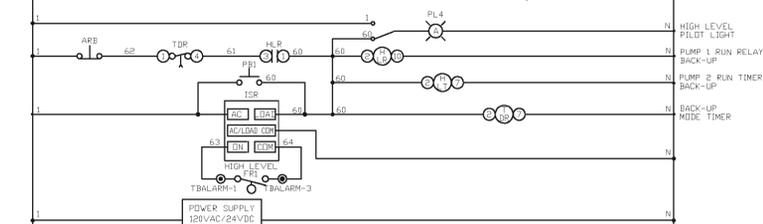
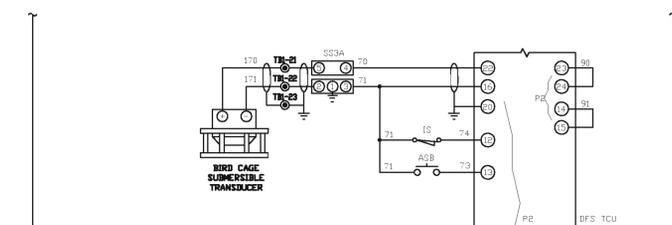
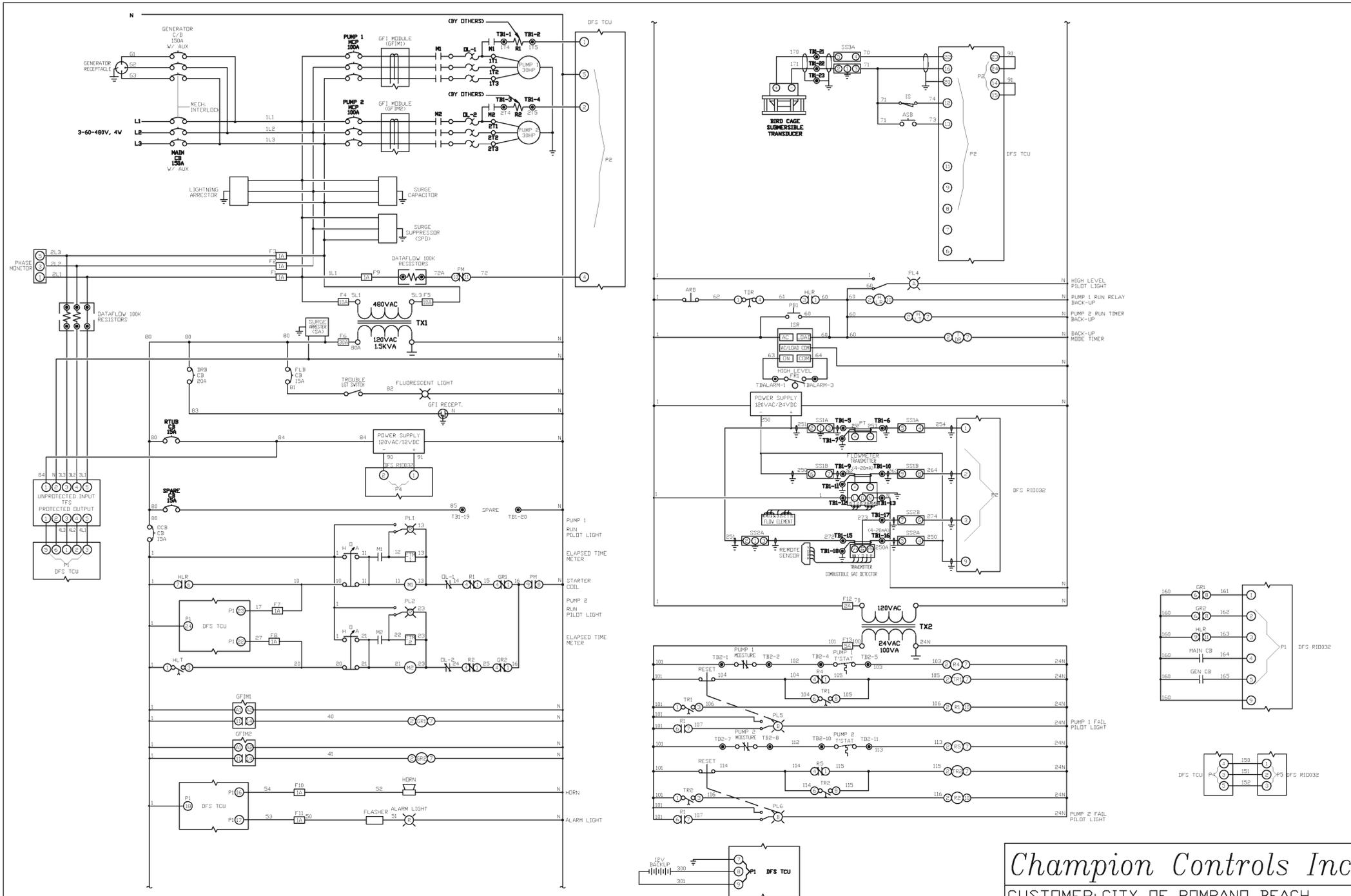
DWG No. **E.3.0**



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BEFORE YOU DIG
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www.callsunshine.com

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(NOT PART OF BROWARD COUNTY NOTES AND APPROVAL) DRAWING SCALE CORRESPONDING TO CITY SIZE OF 2"=30'. IF THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET ENGINEER OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.



Champion Controls Inc
 CUSTOMER: CITY OF POMPANO BEACH
 JOB NAME: LIFT STATION #81 (30HP 480V 3PH)
 JOB NO.: DATE: 08/10/11
 DRAWN BY: B.H. SHEET #1



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 #81 REHABILITATION
 100% SUBMITTAL

DRAWING ISSUED

SUBMITTAL	No.	DESCRIPTION	DATE	BY
REVIEW	60 %			
REVIEW	90 %			
PERMIT	100 %		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 WIRING DIAGRAM

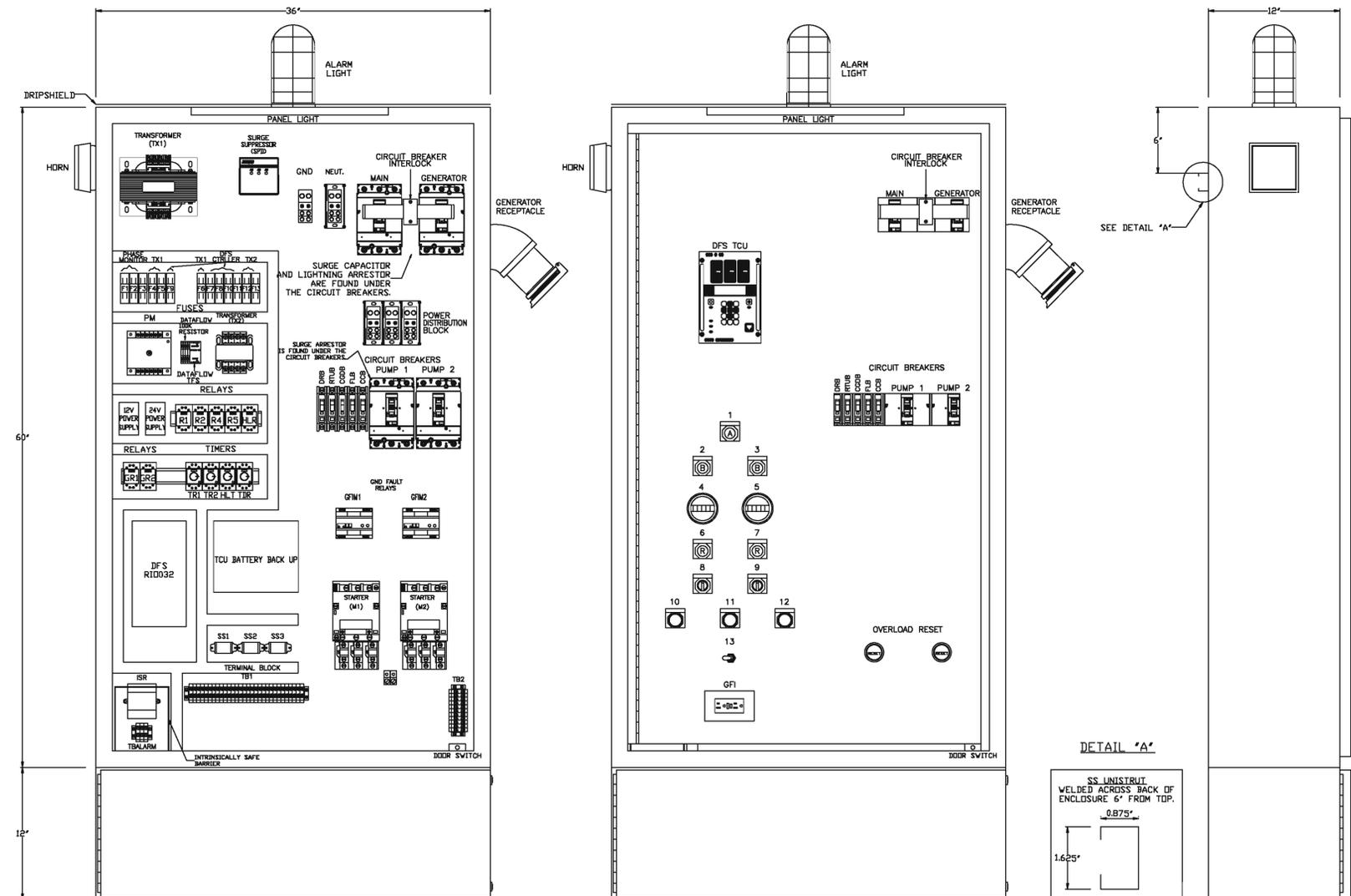
DWG No. E.4.1

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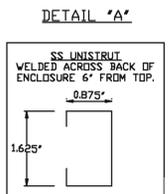
(NOT PART OF BROWARD COUNTY APPROVAL) DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"X36". IF THIS DRAWING IS PLOTTED ON OTHER SIZE SHEET ENGINEER OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.

PUMP STATION #81 REHABILITATION
100% SUBMITTAL



CONTROL PANEL BILL OF MATERIAL

PT #	QTY	MANUFACTURER	PART #	DESCRIPTION
1	1	CHAMPION	72K3612 3R 316 S/S	NEMA 3R S/S ENCLOSURE
2	2	AUSTIN	ENCLOSURE HANDLE KIT	3 POINT LATCH
3	2	SQUARE D	JGL36150A	CIRCUIT BREAKER
4	4	SQUARE D	60115	CIRCUIT BREAKER
5	1	SQUARE D	60110	CIRCUIT BREAKER
6	2	SQUARE D	HJL36100-W73	PUMP MOTOR CIRCUIT PROTECTOR
7	1	SQUARE D	PIE-3105	POWER DISTRIBUTION LUGS
8	1	SQUARE D	9080-BA363106	POWER DISTRIBUTION BLOCK
9	1	DELTA	L4653	LIGHTNING ARRESTOR
10	1	DELTA	04643	SURGE CAPACITOR
11	6	SQUARE D	95520A1	OVERLOAD RESET
12	2	SQUARE D	9559 SX-6	HEATERS
13	2	SQUARE D	8536 SEILV0BS	NEMA RATED SIZE 3 STARTERS
14	2	SQUARE D	9559 SX-6	ND AUX CONTACT
15	1	LITTELFUSE	FL460	20A FUSE
16	4	LITTELFUSE	KLK1	2A FUSE
17	1	LITTELFUSE	KLK2	2A FUSE
18	1	LITTELFUSE	KLK5	5A FUSE
19	3	LITTELFUSE	KLK1	1A FUSE
20	2	LITTELFUSE	KLK10	10A FUSE
21	1	FERRAZ SHAWMUT	3032R	FUSE HOLDER
22	1	FERRAZ SHAWMUT	3032R	FUSE HOLDER
23	2	FERRAZ SHAWMUT	3032R	FUSE HOLDER
24	1	FERRAZ SHAWMUT	3032SR	FUSE HOLDER
25	1	EDWARDS	61	MAGNETIC SWITCH
26	1	SQUARE D	9001 K1A31	AMBER P-T-T PILOT LIGHT
27	1	SQUARE D	9001 K1B31	RED P-T-T PILOT LIGHT
28	2	SQUARE D	9001 K1S1 31	BLUE P-T-T PILOT LIGHT
29	1	SQUARE D	KR106	PUSH BUTTON
30	1	SQUARE D	KR105	PUSH BUTTON ON/PAUSE
31	1	CARLINGTON	80K54-73	SWITCHES (ON/OFF)
32	2	SQUARE D	9001-65430013	NUA SWITCH
33	1	GENS SENSAR	62445	INTRINSICALLY SAFE RELAY
34	1			WITH BARRIER
35	2	BENDER	1844557-913	GROUND FAULT MONITOR
36	1	DIVERSIFIED	SLA-440-4L	PHASE MONITOR
37	2	TELEMECANIQUE	RUMCAB2B7	RELAY
38	2	TELEMECANIQUE	RUMCAB2B7	RELAY
39	2	TELEMECANIQUE	RUMCAB2B7	RELAY
40	1	TELEMECANIQUE	RUMCAB2B7	RELAY
41	3	CUSTOM CONNECT	ES1	RELAY SOCKET
42	10	CUSTOM CONNECT	ES3	RELAY SOCKET
43	2	ATC	339A339T2X	24V TIMER
44	4	ATC	339A33902X	120V TIMER
45	2	FERRAZ SHAWMUT	67611	DISTRIBUTION BLOCK
46	1	SQUARE D	9080-BA36104	DISTRIBUTION BLOCK
47	2	REYNOLTON	710-808	ELAPSED TIME METER
48	2	ELSCO	TA-2	GROUND LUGS
49	5	SQUARE D	9080-0468	TERMINAL END BARRIER
50	10	SQUARE D	9080-0410	TERMINAL END CLAMP
51	62	SQUARE D	9080-0466	TERMINALS
52	1	FEDERAL SIGNAL	350-120	HOORN
53	1			LED PANEL LIGHT
54	1	RAB	VCL	LIGHT BASE
55	1	SSAC	F3126	LIGHT FLASHER
56	1	RAB	GL1000R	LIGHT GLIDE GRID
57	1	RAB	GU100BAR	LIGHT GUARD KIT
58	1	PASS & SEYMOUR	1295-1	RECEPTACLE
59	1	HUBBELL	3356	S/S RECEPTACLE DIVER
60	1	SQUARE D	9070150001	15KVA TRANSFORMER
61	1	SQUARE D	9070150003	10KVA TRANSFORMER
62	1	PER CITY'S LATEST STANDARD		GENERATOR RECEPTACLE ANGLE ADAPTER
63	1	PER CITY'S LATEST STANDARD		GENERATOR RECEPTACLE
64	1	FILE'S	M-50100	POWER SUPPLY
65	1	BLUE RIBBON	MODEL BC01	SUBMERISBLE BIRIBRAGE LEVEL TRANSMITTER
66	1	RITEK	Z40-3D	SURGE SUPPRESSOR DEVICE (SPD)
67	1	DATA FLOW SYSTEMS	RTU PACKAGE	RTU PACKAGE
68	1	DATA FLOW SYSTEMS	RTU PACKAGE	120V 1PH SURGE
69	1	RELYPHASER	CDAX	SURGE PROTECTOR
70	1	DATA FLOW SYSTEMS	RID-032	INPUT/OUTPUT DEVICE
71	1	HEARN WELLS	RF PISTAL	POWER SUPPLY
72	1	DATA FLOW SYSTEMS		RF PISTAL
73	1	DATA FLOW SYSTEMS		SNAP-IN INSTALL KIT
74	1	DATA FLOW SYSTEMS		12V 33AH BATTERY
75	1	DATA FLOW SYSTEMS	END RTU PACKAGE	ANTENNA SUBSYSTEM
76	1	DATA FLOW SYSTEMS	PCRB	SURGE SOCKET
77	3	EDCO	PC64RC-036	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
BASE DIMENSIONS ARE 12"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)	8 PUMP 1 H-O-A SWITCH
2 PUMP 1 FAIL PILOT LIGHT (BLUE)	9 PUMP 2 H-O-A SWITCH
3 PUMP 2 FAIL PILOT LIGHT (BLUE)	10 ALARM SILENCE PUSH BUTTON
4 PUMP 1 ELAPSED TIME METER	11 HIGH ALARM RESET PUSH BUTTON (ARB)
5 PUMP 2 ELAPSED TIME METER	12 HIGH ALARM TEST PUSH BUTTON (PB1)
6 PUMP 1 RUN PILOT LIGHT (RED)	13 INTERIOR LIGHT SWITCH
7 PUMP 2 RUN PILOT LIGHT (RED)	

Champion Controls Inc
CUSTOMER: CITY OF POMPANO BEACH
JOB NAME: LIFT STATION #81 (30HP 480V 3PH)
JOB NO.: DATE: 8/10/11
DRAWN BY: B.H. SHEET #2

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



THESE PLANS ARE NOT FINAL CONSTRUCTION DOCUMENTS UNTIL APPROVALS BY 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 APPROVAL. DRAWING SCALE SHOWN CORRESPONDS TO PLOT SIZE OF 24"X36". IF THIS DRAWING IS PLOTTED ON OTHER SIZE 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



MECHANICAL ELECTRICAL PLUMBING/FIRE PROTECTION

1540 EAST BURNING BUSH BLVD STE 100
FORT LAUDERDALE, FL 33324
P. 954.777.2222
WWW.CAINEINC.COM

PUMP STATION #81 REHABILITATION

100% SUBMITTAL

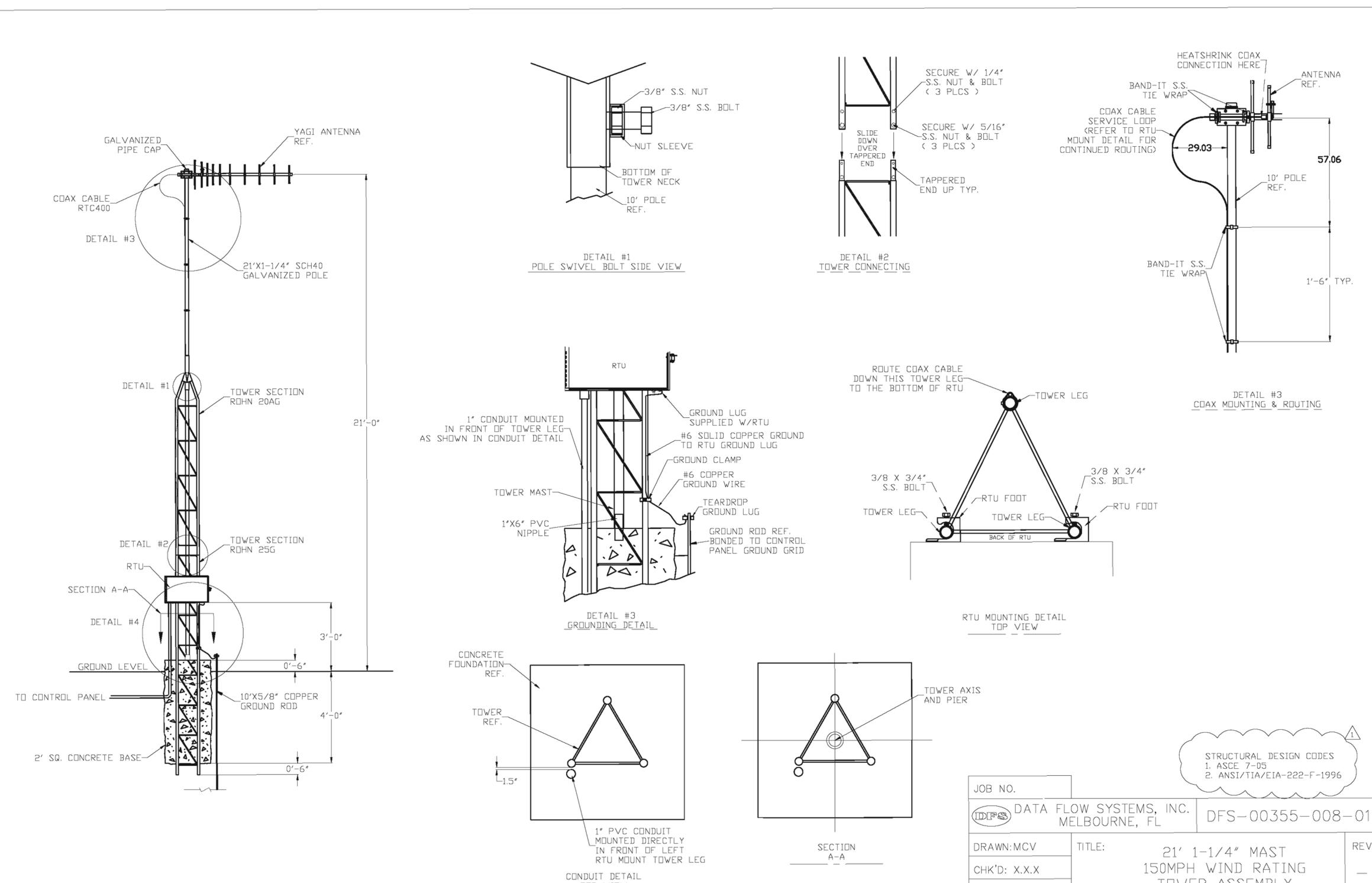
DRAWING ISSUED

SUBMITTAL	No.	DESCRIPTION	DATE	BY
REVIEW	80 %			
REVIEW	90 %			
REVIEW	100 %			
PERMIT	0		08/12/11	TBL

REVISION	No.	DESCRIPTION	DATE	BY
1		CITY COMMENTS	6/11/12	

STRUCTURAL DESIGN CODES
1. ASCE 7-05
2. ANSI/TIA/EIA-222-F-1996

JOB NO.	DATA FLOW SYSTEMS, INC. MELBOURNE, FL	DFS-00355-008-01
DESIGNED: VNW	CHECKED: RBC	
DRAWN: MCV	TITLE: 21' 1-1/4" MAST 150MPH WIND RATING TOWER ASSEMBLY	REV. -
CHK'D: X.X.X		
ENGR: X.X.X		
DATE: 09-19-00	SCALE: NTS	SHEET: 1 OF 1



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(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 ENGINEER OF RECORD DOES NOT WARRANT ACCURACY OF DRAWING SCALE.