



ADDENDUM NUMBER ONE (1)

DATE: November 27, 2012

RE: BID NO. 2013-29 – UPGRADE OF LIFT STATION No. 40

OWNER: CITY OF EDINBURG

TO: ALL PROPOSERS, HOLDERS OF SPECIFICATIONS, AND ALL INTERESTED PARTIES TO THE CITY OF EDINBURG

BID OPEN: 3:00 P.M. (Central Time), Monday, December 3, 2012

The following corrections and directives shall become part of the Proposal, Contract Documents and Specifications for **BID No. 2013-29 – UPGRADE OF LIFT STATION No. 40.**

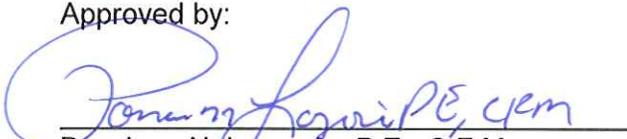
PLANS & SPECIFICATIONS

1. Removed & Replace: Electrical Data Plan sheets E3 – E5 signed on November 21, 2012 with updated Electrical Data Plan sheets E3 – E5 signed on November 27, 2012.
2. Revise: Submersible Lift Station Specification page 5 Section I.03 Pumps Part I: replaced word "Flowserve" with "Flygt".
3. Revise: Submersible Lift Station Specification page 6 Section I.03 Pumps Part III: reworded "guide rail" with "Dual Guide Rail".

Please make the necessary corrections to the Plans and Proposal, as appropriate.

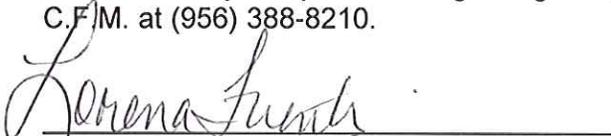
PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID PROPOSAL FORM.

Approved by:


Ponciano N. Longoria, P.E., C.F.M.
City Engineer



Please direct your questions regarding the preparation of the bid to Mr. Ponciano Longoria, P.E., C.F.M. at (956) 388-8210.


Lorena Fuentes, Purchasing Agent



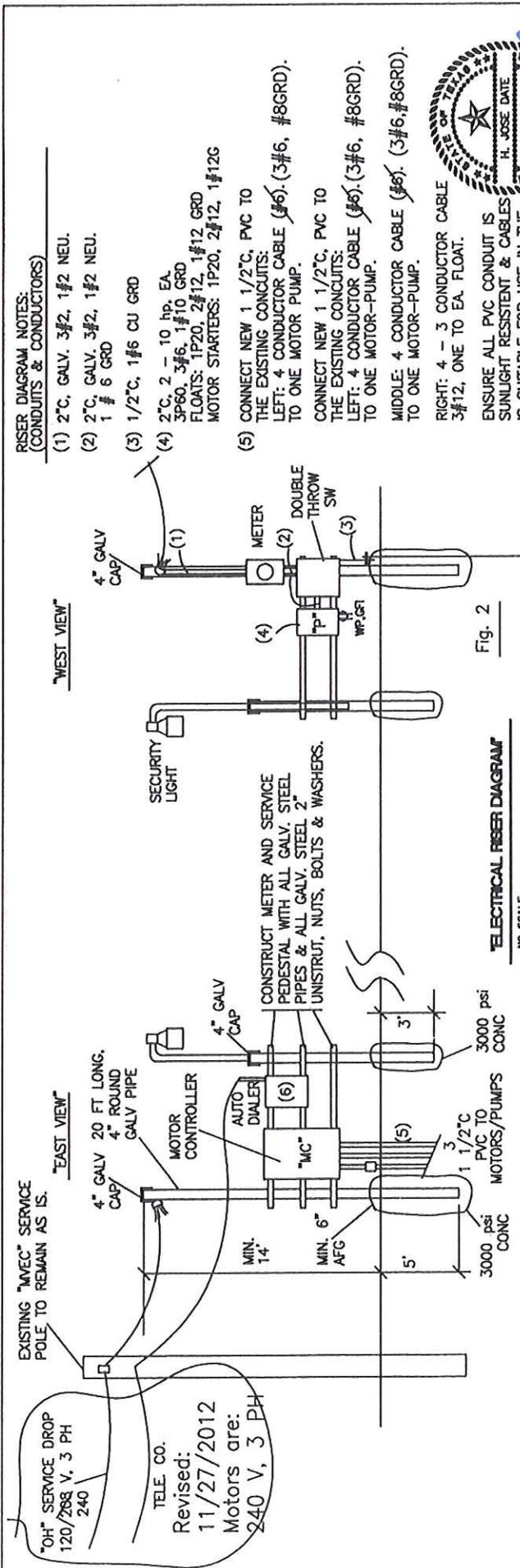


Fig. 1

NO SCALE

"NEW" ELECTRICAL DISTRIBUTION PLAN

NO SCALE

"WEST" VIEW

NO SCALE

"TOP" VIEW

NO SCALE

"ELECTRICAL SERVICE PLAN"

NO SCALE

- EQUIP. DESCRIPTION NOTES:**
- ① ELECTRIC METER
 - ② SQ "D" DOUBLE THROW SW (EMERG. GEN. CONNECTION) NEMA3R, TYPE 12 ENCL BELOW METER.
 - ③ 100 AMP, SQ "D" PANEL "P", NEMA3R
 - ④ MOTOR CONTROLLER (CONTACT: SEMCO, PHARR, TX) 240-288 V, 3-PH, 10 hp MIN. 2 - 28 FLA MOTORS
 - ⑤ AUTO DIALER "HOFFMAN" FIBERGLASS ENCLOSED ENCL
 - ⑥ 2" C, FOR SECURITY LIGHT
 - ⑦ 4" DIA GALV. PIPES
- NOTE:**
 CONSTRUCT METER AND SERVICE PEDESTAL WITH ALL GALV. STEEL PIPES & ALL GALV. STEEL 2" UNISTRUT, NUTS, BOLTS & WASHERS.

Fig. 2

NO SCALE

"NEW" ELECTRICAL SERVICE PLAN

NO SCALE

- RISER DIAGRAM NOTES: (CONDUITS & CONDUCTORS)**
- (1) 2" C, GALV. 3#2, 1#2 NEU.
 - (2) 2" C, GALV. 3#2, 1#2 NEU. 1 # 6 GRD
 - (3) 1 1/2" C, 1#6 CU GRD
 - (4) 2" C, 2 - 10 hp, EA 3#60, 3#6, 1#10 GRD FLOATS: 1P20, 2#12, 1#12 GRD MOTOR STARTERS: 1P20, 2#12, 1#12G
 - (5) CONNECT NEW 1 1/2" C, PVC TO THE EXISTING CONDUITS: LEFT: 4 CONDUCTOR CABLE (3#6, #8GRD). TO ONE MOTOR PUMP. CONNECT NEW 1 1/2" C, PVC TO THE EXISTING CONDUITS: LEFT: 4 CONDUCTOR CABLE (3#6, #8GRD). TO ONE MOTOR-PUMP. MIDDLE: 4 CONDUCTOR CABLE (3#6, #8GRD). TO ONE MOTOR-PUMP. RIGHT: 4 - 3 CONDUCTOR CABLE 3#12, ONE TO EA FLOAT.
 - (6) DIALER: (956) 330-0480 LIFT STA. SUPERVISOR (956) 279-5843 LIFT STA. FOREMAN (7) 1P20, 2#12, 1#12 GRD LIFT STA. SUPERVISOR (8) NOTE: PROPERLY SEAL ALL CONDUITS AGAINST SEWER GAS FUMES WITH "SEAL OFF" O.Z. GEDNEY.
- ENSURE ALL PVC CONDUIT IS SUNLIGHT RESISTANT & CABLES IS SUITABLE FOR USE IN THE SEWER WET-WELL

Fig. 3

NO SCALE

"NEW" ELECTRICAL SERVICE PLAN

NO SCALE

OH" SERVICE DROP
120/288 V, 3 PH
240

TELE. CO.
Revised:
11/27/2012
Motors are:
240 V, 3 PH

CIMCO ENGINEERING, Inc. Reg. No. F-5245

CONSULTING ENGINEERS
412 So. BENTSEN PALM Dr.
PALMVIEW, TEXAS 78572

Telephone (956) 581-6729
Cell Ph (956) 330-7986
Fax (956) 581-2013
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THE CITY OF EDINBURG
Department of Public Works

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY THE CITY OF EDINBURG BY RESOLUTION NUMBER 2, 2002 ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE PROFESSIONAL ENGINEER VIOLATES TEXAS PROFESSIONAL PRACTICE ACT.

NO. SCALE

LIFT STATION #40
UPGRADE

LIFT STATION DETAILS

SHEET:	E - 3
PROJECT NAME:	of 5
LIFT STATION:	
DATE:	
SCALE:	
DATE:	
SCALE:	

NOTE: PROPERLY SEAL
 ALL CONDUITS AGAINST
 SEWER GAS FUMES WITH
 "SEAL OFF" O.Z. GEDNEY.

NOTE: FOR CABLES TO MOTORS/PUMPS
 & FLOATS USE "COLEMAN CABLE CO."
 PVC ROUND JACKET CABLE:

CAT. NO. 42471, 3#6, #8 GRD (MOTORS)
 CAT. NO. 42468, 3#12, #12 GRD (FLOATS)
 USE ONLY 2 # 12, #12GRD

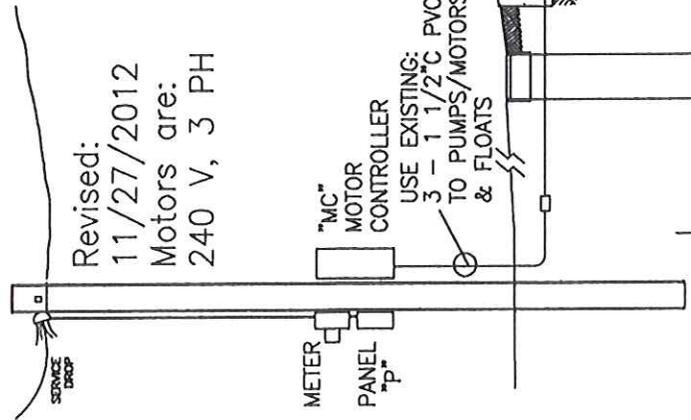
COLEMAN CABLE CO. DOES NOT HAVE A CABLE FOR
 USE IN "SEWER" SYSTEMS. THE "PVC" JACKET CABLE
 WAS THE ONLY THING THEY COULD SUGGEST.

EXISTING:
 1 1/2" C's



MOTOR MOTOR
 PUMP PUMP
 #1 #2

"MC"
 MOTOR
 CONTROLLER
 USE EXISTING:
 3 - 1 1/2" PVC
 TO PUMPS/MOTORS
 & FLOATS



SHEET:
 E - 4
 of 5



PROFILE VIEW
 NOT TO SCALE

Handwritten signature and date:
 Nov. 27, 2012

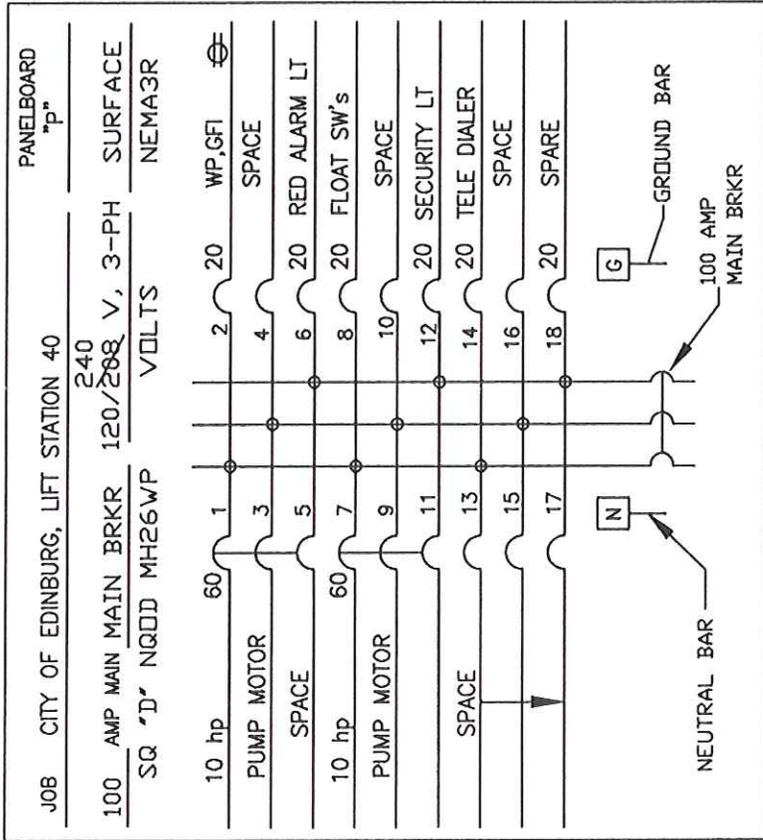
NOTE: PUMP & MOTORS INSTALLATION BY OTHERS

PUMP DATA	
MANUFACTURER	FLYGT
MODEL	MP-3127,181 MT
CURVE NUMBER	C3-A39-00-3704
IMPELLER (mm)	202
HORSE POWER	10
RPM	1745
VOLTAGE/PHASE	240 3Ø/3
DISCHARGE SIZE (Inches)	8
MAXIMUM SOLIDS (Inches)	3
C.P.M.	790
T.H.D.	34.3
NET WELL DIA.	10
NET WELL BASE WIDTH	13

FLOAT ELEVATION	
FLOOR FL.	96.85
NO FLOW E.L.	90.85
ALL PUMPS OFF E.L.V.	90.85
LEAD PUMPS ON E.L.V.	95.08
LAC PUMP ON E.L.V.	96.18
ALARM SIGNAL E.L.V.	97.28

**NEW ELECTRICAL SEER
 WETWELL - FLOATS D**

NO SCALE



"P" AS AN ADDITIVE ALTERNATE: NEMA4X S.S. ENCLOSURE.

NOTE: "CAUTION" ON THE 120/240 V, CONFIGURATION, "DO NOT USE THE HIGH LEG (PHASE B) FOR THE 120 V CIRCUITS".

100 AMP, DOUBLE THROW SWITCH

SQ "D", DTU323RB, NF, NEMA3R.

240 288 V, 3-PHASE.

AS AN ADDITIVE ALTERNATE: NEMA4X S.S. ENCLOSURE.

AUTO DIALER

4 CHANNEL, "CHATTER BOX" BY RACO OR EQUAL IN FIBERGLASS ENCLOSURE.

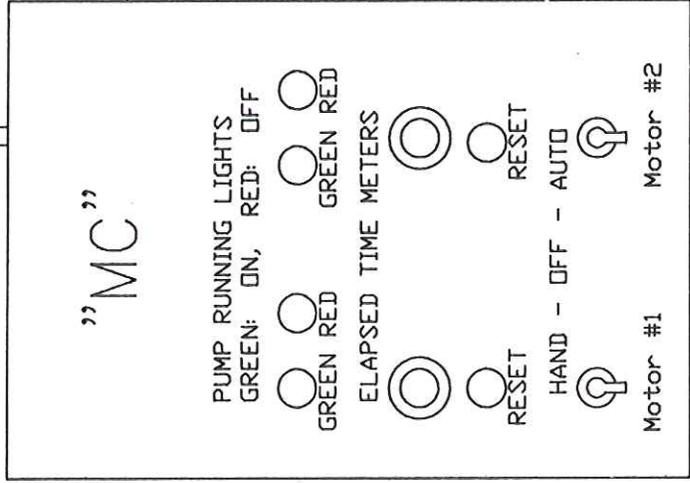
AS AN ADDITIVE ALTERNATE: NEMA4X S.S. ENCLOSURE.

ACCEPTABLE MANUFACTURERS FOR THE EQUIPMENT ABOVE IS SQUARE "D", CUTLER-HAMMER, GENERAL ELECTRIC, OR SIEMENS.

RED ALARM LT

MOTOR Lift Station

2 - 10 hp



NOTES:

1. OUTLINE DIMENS 30"W x 36"H x ENCLOSURE, FULL
 2. MOTOR CONTROL FEATURES AS IN AS AN ADDITIVE ALTERNATE
- IN NORMAL OPERATION, SELECT ALTERNATE PUI EQUALIZE PUMP WEAR. BOTH PUMPS WILL OPERATE
- INCLUDE PHASE MONITORING, ARRESTER, AND OVER

SECURITY LIGHT FIXTURE:
LITHONIA TDD100SL 120 MZ
12" SECURITY LT, 100 W HPS
LAMP, 120 V, W/PHOTO CELL.



SHEET:
E - 5
of 5

REVISED: THE MOTOR/PUMPS COMBOS ARE 240 V, 3 PH 11/27/2012

BACKFILL:

Backfill Material: unless shown otherwise on the drawings, sand or crushed stone shall be used for backfill around the wet well for a distance of two feet from the outside surface and extending from the bottom of the excavation to the bottom of the top slab. Suitable material chosen from the excavation may be used for the remainder of the backfill. The material chosen shall be free of large lumps or clods, which will not readily break down under compaction. This material will be subject to approval by the Engineer. Backfill material shall be free of vegetation or other extraneous material. Excavated materials which are to be used for fill or backfill may be stockpiled on the site. Location of stockpiles shall be approved by the Engineer. Top soil should be stockpiled separately and used for finish grading around the structure.

The Contractor may begin backfilling of wet well as soon as the concrete has been allowed to cure and the forms removed.

Backfill shall be placed in layers of not more than 12 loose measure inches and mechanically tamped to at least 95% Standard Proctor Density. Flooding will not be permitted. Backfill shall be placed in such a manner as to prevent any wedging action against the structure.

When installing a fiberglass wet well without a fiberglass top you should pour a reinforced concrete slab support a minimum of two feet outside of fiberglass wet well wall and a minimum of six inches thick. The slab shall be specified and designed by Project Engineer.

Marking and Identification: Each wet well shall be marked with the following information.

- (1) Manufacturer's name or trademark
- (2) Manufacturing special number
- (3) Total length and nominal diameter

I.03 PUMPS

- I. General: Provide submersible sewage pumps suitable for continuous duty operation underwater without loss of watertight integrity to a depth of 65 feet. Design shall be such that the pump will be automatically connected to the discharge piping when lowered into place on the discharge connection. The pump shall be easily removable for inspection or service, requiring no bolts, nuts, or other fasteners to be disconnected, or the need for personnel to enter the wet well. The motor and pump shall be designed, manufactured, and assembled by the same manufacturer in North America and have a service facility within 50 miles of the jobsite. Acceptably pump manufacturer shall be **Flygt** Pumps or approved equal. To be considered equal, pump manufacturer must have approval 15 days before bid date.
- II. Pump Characteristics:

Pumps shall conform to the following requirements:

(1)	Number of units	2
(2)	Design flow (gpm)	
(3)	Design TDH (ft)	
(4)	Minimum shut off head (ft)	
(5)	RPM	1800
(6)	Maximum HP	
(7)	Minimum efficiency at design (%)	60%
(8)	Voltage/Hz	
(9)	Phase	3

III. Pump Design: The pump(s) shall be capable of handling raw unscreened sewage, stormwater, and other similar solids-laden fluids without clogging. The discharge base and elbow shall be permanently installed in the wet well and connected to the discharge piping. In order to prevent binding or separation of the pump from the **Dual Guide Rail** system, the pump(s) shall connect to the **Dual Guide Rail** base automatically and firmly, guided by no more than two guide bar extending from the top of the station to the discharge connection. Non standard flange dimensions shall not be considered acceptable. There shall be no need for personnel to enter the wet well to remove or reinstall the pump(s). Positive sealing the pump and the sliding guide bracket. Metal to metal contact between the pump and discharge elbow shall not be considered acceptable. No portion of the pump shall bear directly on the floor of the sump. The pump with its appurtenances and cable shall be capable of continuous submergence to a depth of 65 ft.

IV. Pump Construction: Major pump components shall be of gray cast iron, ASTM A-48, Class 40, with smooth surfaces devoid of porosity or other irregularities. All exposed nuts and bolts shall be AISI type 316 stainless steel construction. All metal surfaces coming into contact with the pumped media (other than the stainless steel components) shall be protected by a factory applied spray coating of modified vinyl-zinc primer with a modified acrylic resin finish on the exterior of the pump. Sealing design for the pump/motor assembly shall incorporate metal to metal contact between machined surfaces. Critical mating surfaces where a watertight seal is required shall be machined and fitted with Buna-N or Vinton rubber O-rings. Sealing will be the result of controlled compression of rubber O-rings in two planes and O-ring contact of four sides without requiring a specific torque limit. Rectangular cross sectioned gaskets requiring specific torque limits to achieve compression shall not be considered adequate or equal. No secondary sealing compounds shall be used.

The impeller shall be made of ASTM A48, Class 30 gray cast iron. The impeller shall be dynamically balanced, non-clogging, with a minimum of _____ vane(s). The impeller shall be capable of handling solids, stringy materials, sludge and other debris typically found in wastewater. The impeller shall be keyed to the shaft and retained with a stainless steel bolt. Tapered shaft designs shall not be considered equal to a positively driven-keyed shaft and will not be acceptable.

Wear Rings shall be offered to minimize re-circulation between the impeller and casing. Softer wear ring materials such as bronze or rubber shall not be considered equal.