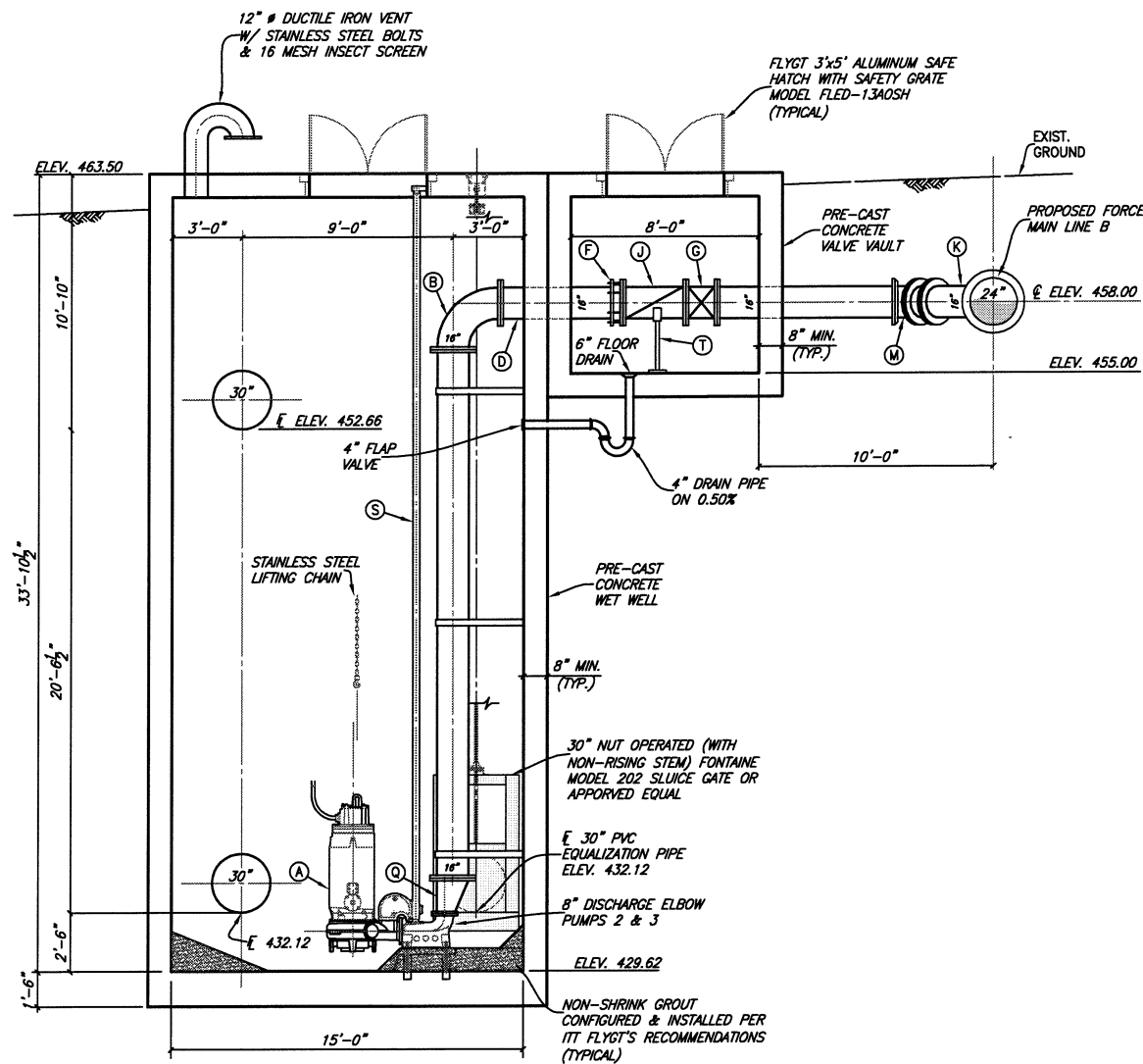
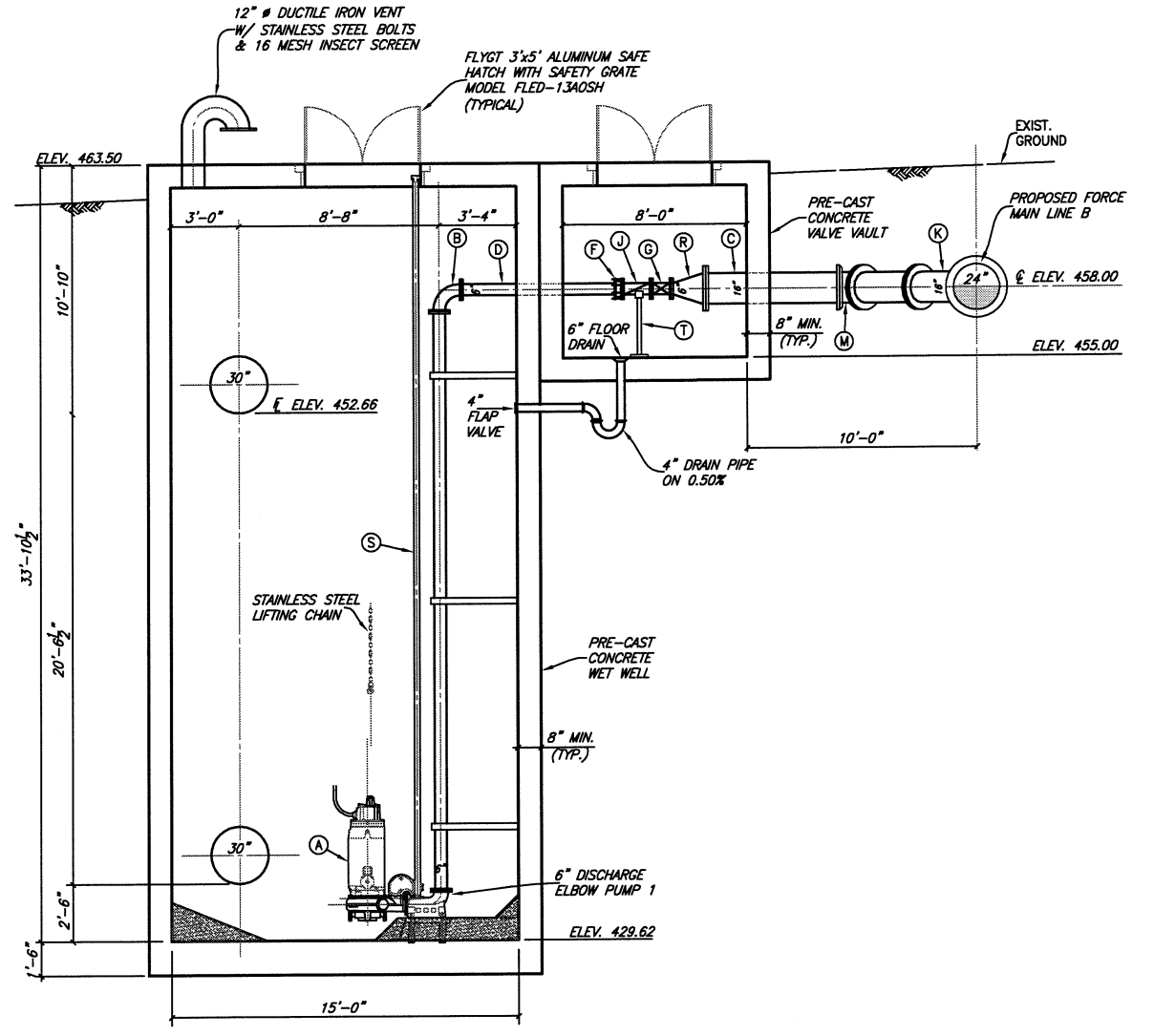


LIFT STATION NOTES

- IN ORDER TO PREVENT SHEARING WITHIN THE BACKFILL AREAS, THE DISCHARGE PIPING SHALL BE DUCTILE IRON FROM THE LIFT STATION, THROUGH THE VALVE VAULT.
- ALL DUCTILE IRON PIPING SHALL BE ANSI/AWWA C110 DUCTILE IRON, FLANGED, STANDARD THICKNESS. JOINTS SHALL BE ANSI/AWWA C111 MECHANICAL JOINT. PIPE AND FITTINGS SHALL HAVE INTERNAL AND EXTERNAL EPOXY COATINGS. ALL BURIED DUCTILE IRON PIPING SHALL ALSO BE POLYETHYLENE ENCASED IN ACCORDANCE WITH AWWA C105.
- EXTERIOR OF ALL DUCTILE IRON PIPING SHALL BE LINED WITH TWO 8.0 MIL COATS (16 MIL TOTAL DFT) OF TENEMEC SERIES 164 COLOR EPOXOLINE 80 OR APPROVED EQUAL.
- ALL EXPOSED METALLIC PIPE (NON-GALVANIZED, NON-STAINLESS STEEL OR ALUMINUM) AND FITTINGS WITHIN THE WET WELL AND VALVE VAULT SHALL BE COATED WITH A MINIMUM OF TWO 6.0 MIL COATS (12 MILS DFT) OF DEVCO BAR-RUST 233H HIGH PERFORMANCE EPOXY COATING OR APPROVED EQUAL.
- WHERE PIPES OR CONDUIT PASS THROUGH THE WALL OF THE WET WELL, THE SPACE BETWEEN THE WET WELL AND THE PIPE SHALL BE SEALED WITH LINK SEALS.
- THE FOUNDATION OF THE WET WELL SHALL REST ON UNDISTURBED SOIL. OVER EXCAVATION OF THE WET WELL FOUNDATION SHALL BE FILLED WITH 2,500 P.S.I. CONCRETE TO THE ELEVATION SHOWN ON THE PLANS FOR THE BOTTOM OF THE WET WELL FOUNDATION.
- CONTRACTOR SHALL GROUT OPENINGS FOR ACCESS FRAMES AND WET WELL BOTTOM. ALL GROUT SHALL BE NON-SHRINK AND BE COMPATIBLE WITH SPECIFIED COATINGS. CONFIGURE GROUT IN WET WELL BOTTOM PER ITT FLYGT'S RECOMMENDATION.
- COMPLETELY RESTRAIN ALL JOINTS FOR PIPE, BENDS, TEES AND FITTINGS ON THE FORCE MAIN PIPING WITHIN THE LIFT STATION SITE.
- PRECAST WET-WELL AND VALVE VAULT SHALL BE A MINIMUM OF 4,200 PSI CONCRETE. WALL THICKNESS SHALL MEET OR EXCEED THE MINIMUMS SHOWN. MANUFACTURER SHALL VERIFY WALL THICKNESS AND PROVIDE ADEQUATE REINFORCING FOR PROPOSED DEPTHS. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF THE PROPOSED STRUCTURES SEALED AND SIGNED BY A TEXAS PROFESSIONAL ENGINEER TO BIRKHOFF, HENDRICKS & CARTER, L.L.P. FOR REVIEW.
- ALL CONCRETE AND GROUT SURFACES INSIDE THE WET WELL SHALL BE COATED WITH A 6.0 MIL DFT PRIME COAT OF TENEMEC SERIES 201 EPOXOPRIME, 125 MIL DFT COAT OF TENEMEC SERIES 434 CHEMLOCK H2S, AND A 16 MIL DFT TOP COAT OF TENEMEC 435 CHEMCEL. ALL CONCRETE AND GROUT SHALL HAVE A MINIMUM OF 28 DAYS CURE TIME PRIOR TO COATING APPLICATION. ABRASIVE BLAST ALL SURFACES TO SSPC-SP13/NAACE 6 PRIOR TO COATING APPLICATION. FOLLOW MANUFACTURERS PUBLISHED APPLICATION INSTRUCTIONS INCLUDING THOSE FOR SURFACE REPAIR PRIOR TO COATING.
- LUMP SUM BID ITEM FOR LIFT STATION SHALL INCLUDE ALL LIFT STATION EQUIPMENT, MATERIALS, LABOR, ELECTRICAL WORK, ETC. IN LUMP SUM BID ITEM INCLUDES A COMPLETE OPERATIONAL LIFT STATION AS SPECIFIED IN THESE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE LOCATION OF PUMPS, HATCHES AND ALL APPURTENANCES WITH ITT FLYGT. BASE ELBOW ANCHOR BOLT TYPE, LOCATION AND ORIENTATION SHALL BE COORDINATED BY THE CONTRACTOR THROUGH ITT FLYGT ANCHORS FOR BASE ELBOWS SHALL BE INSTALLED BY PRECASTER & INSTALLED PER ITT FLYGT RECOMMENDATIONS.
- FLOAT ELEVATIONS SHOWN ARE FOR FLOWS UP TO 0.40 M.G.D.. FLOAT LEVELS SHALL BE SET IN ACCORDANCE WITH LIFT STATION REPORT FOR FLOWS IN EXCESS OF 0.40 M.G.D..



SECTION A-A
SCALE: 1/4" = 1'-0"
TYPICAL OF PUMPS 2 & 3



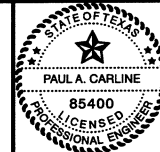
SECTION A-A
SCALE: 1/4" = 1'-0"
PUMP 1

LEGEND

LETTER	PIPE	JOINT	DESCRIPTION
A	-	-	PUMP W/ MOTOR
B	D.I.P.	FLG.	LONG RADIUS 90° BEND
C	D.I.P.	FLG.	90° BEND
D	D.I.P.	FLG.-P.E.	PIPE SPOOL
E	D.I.P.	P.E.	PIPE
F	-	-	THRUST HARNESS ASSEMBLY
G	-	FLG.	GATE VALVE
H	-	M.J.	GATE VALVE
I	-	FLG.	SURGE VALVE
J	-	FLG.	CHECK VALVE
K	D.I.P.	M.J.	WYE
L	D.I.P.	M.J.	TEE
M	D.I.P.	M.J.	45° BEND
N	D.I.P.	FLG.	45° BEND
O	D.I.P.	M.J.	PLUG
P	D.I.P.	FLG.	BLIND FLANGE
Q	D.I.P.	FLG.	ECCENTRIC REDUCER
R	D.I.P.	FLG.	CONCENTRIC REDUCER
S	-	-	2-3" GUIDE BAR
T	-	-	STRUT-TYPE PIPE SUPPORT

This record drawing is a compilation of the sealed engineering drawing for this project, modified by addenda, change orders and information furnished by the contractor. The information shown on the record drawings that was provided by the contractor or others not associated with the design engineer cannot be verified for accuracy or completeness. This original sealed drawings are on file at the offices of Birkhoff, Hendricks & Carter, L.L.P.
BY PAC DATE 03/06/12

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5/28/10

CITY OF ROCKWALL, TEXAS
SQUABBLE CREEK LIFT STATION
LIFT STATION PIPING SECTIONS

BHC
PROJECT NO.
2007-110
SHEET NO.
6
MAY 2010