



- CRANE NOTES:**
- EXCAVATE HOLE AS NEAR TO COLUMN DIMENSIONS AS POSSIBLE TO PLACE REBAR IN CENTER. FILL ENTIRE HOLE WITH CONCRETE TO CONTACT IN-SITU SOIL ON ALL SIDES.
 - PRIOR TO DESIGN, THE CONTRACTOR SHALL CONFIRM WITH THE AW PROJECT MANAGER WHETHER A GANTRY OR PEDESTAL CRANE IS REQUIRED.

DESIGN LIFT STATION LEVELS	
TOP OF LID:	-
BOTTOM OF STATION FLOOR:	-
FLOAT LOW ALARM:	-
TRANSDUCER LOW ALARM:	-
LAG PUMP ON:	-
LAG PUMP OFF:	-
LAG PUMP ON:	-
TRANSDUCER HI ALARM:	-
HIGH FLOAT HI ALARM:	-

ANTI-BUOYANCY CALCULATIONS	
1. PUMP STATION VOLUME:	-
ASSUME WATER TABLE AT GROUND SURFACE	-
ASSUME NO SOIL FRICTION	-
WEIGHT OF WATER = 62.4 LB/CU FT	-
WEIGHT OF CONCRETE = 150 LB/CU FT	-
ASSUME WEIGHT OF PUMP STATION IS NEGLIGIBLE	-
2. CONCRETE WEIGHT REQUIRED = BUOYANT FORCE	-
3. CONCRETE VOLUME REQUIRED =	-

SEWAGE PUMP SPECIFICATIONS	
MANUFACTURER	-
TYPE	SUBMERSIBLE
MODEL NO.	-
NUMBER REQUIRED	2
HORSEPOWER	-
DESIGN FLOW (GPM)	-
DESIGN TDH (FT)	-
VOLTAGE	-
PHASE	-
HERTZ	60
MOTOR SPEED (RPM)	-
IMPELLER DIA. (IN)	-
LEVEL CONTROL SYSTEM	FLOAT CONTROL
PUMP WEIGHT	-
RAIL SYSTEM	S.S. GUIDE RAILS
DISCHARGE SIZE	-

- PUMP STATION GENERAL NOTES:**
- THIS DETAIL IS NOT FOR CONSTRUCTION AND SHALL BE USED FOR TYPICAL LAYOUT AND LIFT STATION REQUIREMENTS ONLY. COMPLETE LIFT STATION DESIGN AND ANALYSIS SHALL BE DESIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - FOR ELECTRICAL REQUIREMENTS, SEE DETAIL MSG-WW-02 AND AW SPECIFICATION.
 - NO SUBSURFACE INVESTIGATIONS WERE PERFORMED. SUBCONTRACTOR SHALL ADVISE ENGINEER IF UNSTABLE SOIL CONDITIONS ARE FOUND.
 - SUBCONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS AND SEQUENCING OF ALL WORK.
 - SUBCONTRACTOR IS RESPONSIBLE FOR SAFETY OF ALL PERSONS ON SITE. PROVIDE NECESSARY SHORING, BRACING AND DEWATERING OF EXCAVATIONS. PROVIDE TEMPORARY PROTECTION OF EXCAVATIONS.
 - INSTALLATION OF EQUIPMENT IN PUMP STATION AND VALVE PIT SHALL BE DONE IN ACCORDANCE WITH CONFINED SPACE ENTRY REGULATIONS.
 - MOUNTING AND SUPPORT OF ALL EQUIPMENT TO BE DONE PER MANUFACTURER'S REQUIREMENTS. DRAWING SHOW GENERAL ARRANGEMENTS ONLY.
 - SHOP DRAWINGS OF ALL COMPONENTS ARE REQUIRED. SUBMIT TO ENGINEER FOR APPROVAL BEFORE ORDERING.
 - MINIMUM TWO SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT REQUIRED.
 - THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS EXPANDED AND AMENDED FROM TIME TO TIME, AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
 - ALL MEDIUM SIZED LIFT STATIONS SHALL BE PROVIDED WITH AN EMERGENCY BACK-UP GENERATOR.
 - ALL MEDIUM SIZED LIFT STATIONS SHALL BE PROVIDED WITH SCADA MONITORING AND CONTROL.
 - ALL PIPE, VENTS, CLEANOUTS, ETC SHALL PREVENT INFILTRATION AND INFLOW FROM ENTERING THE SANITARY SEWER SYSTEM. IF REQUIRED AS A RESULT OF THE PRESSURE TEST, MODIFICATIONS TO THE EXISTING SYSTEM WILL BE MADE PRIOR TO DISCHARGE TO SANITARY SYSTEM.
 - LIFT STATION SITE SHALL BE ENCLOSED WITH 8' OR 6' HIGH FENCE WITH A MINIMUM OF 1 OR 3, RESPECTIVELY, STRAND BARBED WIRE AROUND AND PROVIDED WITH A VEHICLE GATE. PEDESTRIAN GATES PROVIDED WHERE REQUIRED BY AMERICAN WATER.
 - SERVICE LINE TO YARD HYDRANT TO BE PROVIDED WITH BACKFLOW PREVENTION DEVICE IN ACCORDANCE WITH LOCAL REGULATIONS.
 - COORDINATE WITH AW FOR THE LIFT STATION DESIGN CHANGES FOR A TRIPLEX ON A LARGE LIFT STATION.

REVISIONS	
6/13	- MSG EDITS
4/14	- MSG EDITS
01/16	- MSG EDITS

AMERICAN WATER MILITARY SERVICES GROUP
CIVIL
STANDARD MEDIUM LIFT STATION
TYPICAL LAYOUT DETAIL

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DRAWN BY PDK
PROJECT ENG'R PDK
APPROVED

DATE 04-30-2010
PROJECT N/A

USE DIMENSIONS ONLY
SCALE N.T.S.

USE APPROVED DRAWINGS ONLY
FOR CONSTRUCTION PURPOSES

MSG-WW-05

FINAL

MSG-WW-05