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1736 E SUNSHINE ST. SUITE 417
SPRINGFIELD, MO

LIFT STATION CHECK-LIST

PLUMBING INSTALLATION:

THE GRAVITY LINE FROM THE HOUSE TO THE PUMP TANK SHALL HAVE A DUAL CLEANOUT.

PUMP TANK MUST BE INSTALLED OUTDOORS AND IN-GROUND WITH THE TOP OF THE TANK PROTECTED FROM DANGER (I.E. SNOWPLOWS, VEHICLES, ETC.) BUT ACCESSIBLE FOR MAINTENANCE AND REPAIR.

INSTALL THE INLET HUB FROM THE HOUSE TO THE BASIN AT LEAST 24 INCHES FROM THE INLET PIPE TO THE BOTTOM OF THE BASIN. (NOTE THAT THE WORKING VOLUME REQUIREMENTS VARY WITH THE BATHROOM COUNT.)

VENTING OF THE TANK SHALL BE THROUGH THE HOUSE DRAIN VENTILATION SYSTEM.

PLUMBING IN TANK WILL BE SCHEDULE 40, 304 STAINLESS STEEL AND WILL PENETRATE THROUGH A WATERPROOF GROMMET.

DISCHARGE LATERAL SERVICE LINE SHALL BE SCHEDULE 40 PVC PIPE, SIZED APPROPRIATELY FOR THE PUMP SELECTED, BUT NOT SMALLER THAN 1 ¼". THE DIVE SHALL HAVE COPPER WIRE WITH A PVC JACKET ATTACHED ABOVE IT WITH VINYL ELECTRICAL TAPE, FOR LOCATING PURPOSES. ALL LINES THAT MUST GO UNDER A DRIVEWAY OR OTHER BARRIER MUST BE IN A 4-INCH SLEEVE.

THE PIPE TRENCH WILL BE A MINIMUM OF 2.0' DEEP. THE SERVICE LINE MUST BE BEDDED IN SUITABLE MATERIAL TO PROVIDE PIPE PROTECTION, WHICH INCLUDES NATIVE MATERIAL THAT IS FREE FROM LARGE ROCKS AND OTHER LARGE DEBRIS.

TEST SYSTEM FOR SYSTEM OPERATION AND SECURE CITY APPROVAL.

ELECTRICAL INSTALLATION:

THE PUMP CONTROL PANEL SHALL HAVE TWO SEPARATE CIRCUITS; ONE FOR THE PUMP AND A SEPARATE 120-VOLT CIRCUIT FOR THE CONTROL AND ALARM.

THE 110-VOLT, CONTROL CIRCUIT WILL COME FROM THE HOUSE PANEL AT 20-AMP BREAKER. THE 240-VOLT 1 HP CIRCUIT WILL COME FROM THE HOUSE PANEL AT 30-AMP BREAKER. THE CONTROL AND ALARM POWER TO THE PANEL WILL BE A SEPARATE 120-VOLT CIRCUIT ON A SEPARATE 15 OR 20-AMP BREAKER. PANEL WILL BE SUPPLIED USING MINIMUM ¾-INCH CONDUIT, WHERE WIRING IS OUTSIDE WALLS OR CEILING.

PANEL MUST BE INSTALLED A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET ABOVE FINAL GRADE.

PANEL MUST BE INSTALLED ON OUTSIDE WALL OR ON AN APPROVED SUPPORT DEVICE, AND NO FURTHER THAN 15 FEET AND WITHIN SIGHT OF THE PUMP TANK. IF BOTH OF THESE CANNOT BE ACHIEVED, A SEPARATE LOCAL DISCONNECT SAFETY SWITCH MUST BE PROVIDED ADJACENT TO THE PUMP TANK.

MINIMUM 1-1/2 INCH GREY SCHEDULE 40 PVC ELECTRICAL CONDUIT IS REQUIRED FOR UNDERGROUND AND 1-1/2 INCH METAL GALVANIZED RIGID CONDUIT IS RECOMMENDED ABOVE GROUND.

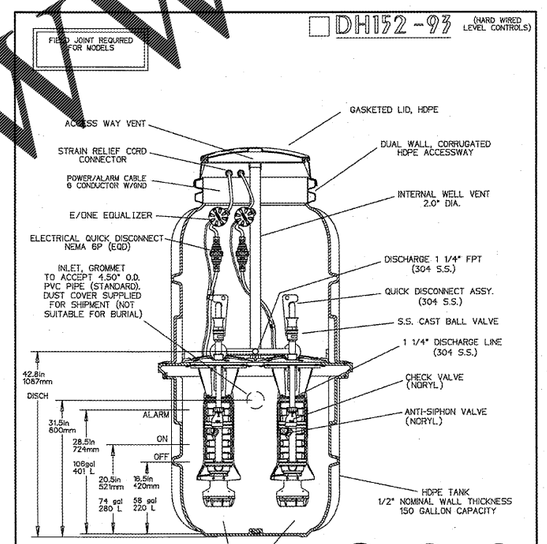
ALL CONNECTORS MUST BE APPROVED RAIN-TIGHT FITTINGS; GLUING OF FITTINGS TO LIQUID-TIGHT CONDUIT IS NOT ACCEPTABLE.

ELECTRICAL SWEEPS FOR BENDS OR LB TYPE FITTING FOR CONDUITS MUST BE USED WATER PIPE ELBOWS ARE NOT ACCEPTABLE.

LIFT STATION DATA:

MANUFACTURER: E/ONE
MODEL: DH152 WETWELL/DRYWELL DUPLEX GRINDER PUMP
PUMP CONFIGUATION: DUPLEX
LEVEL CONTROLS: WIRED
PUMP GPM: 13
PUMP TOTAL DYNAMIC HEAD: 49'
PUMP HP: 1 HP
PUMP RPM: 1750
PUMP VOLTAGE: 240 VOLTS, SINGLE PHASE
ALARM PANEL: SENTRY ALARM PANEL LOCATED ON BUILDING EXTERIOR WITHIN SIGHT OF LIFT STATION. REMOTE SENTRY ALARM MODULE, LOCATE IN MANAGER'S OFFICE.
TANK: HDPE CONSTRUCTION, 150 GALLON WET WELL
TANK DISCHARGE PIPE SIZE: 1.25"
DISCHARGE PIPE VELOCITY: 3.6 FEET PER SECOND

FIELD PIPING:
1.25" PVC WITH PUSH-ON JOINTS CONFORMING TO ASTM D3139 AND F477.



SEMI-POSITIVE DISPLACEMENT TYPE PUMP EACH DIRECTLY DRIVEN BY A 1 HP MOTOR

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

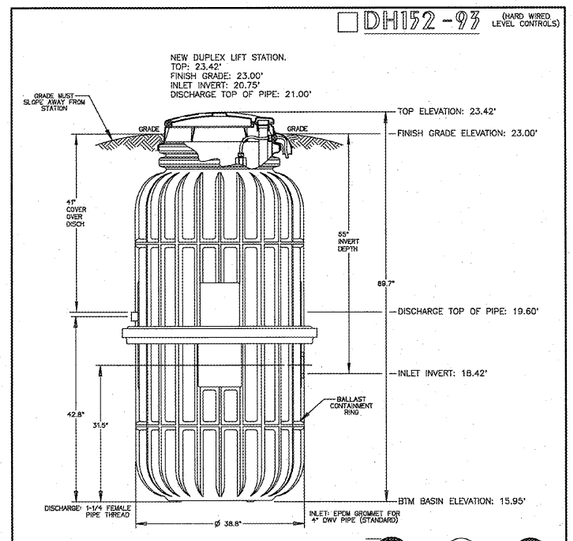
NOTE: DIMENSIONS ARE FOR REF ONLY

AD	CH	10/20/10	D	
DR BY	CHK'D	DATE	ISSUE	SCALE

MODEL DH152 / DR152
DETAIL SHEET

NA0052P02

LIFT STATION DETAIL 2 US2



CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

AD	CAH	7/13/07	B	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

MODEL DH152-93 / DR152-93

NA0052P04

LIFT STATION DETAIL 1 US2

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NEW O'REILLY AUTO PARTS STORE
EAST MAIN STREET
FREEPORT, FL

SITE UTILITY DETAILS

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(417) 862-2674 TELEPHONE

COMM #	3924
DATE:	2-24-17
REVISION DATE:	

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