Texas Custodial Trust
2301 West Paisano Drive  El Paso, Texas  79922-1622

East Property
Groundwater Hydraulic Barrier Design

April 2015

Prepared for Project Navigator, LTD (Trustee) By:

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6HB WELL EP-163 - DRAFT WELLHEAD DESIGN
PROFILE VIEW

NOT TO SCALE

EXISTING CONCRETE VAULT BOX W/ LID

FLANGED WELLHEAD WITH THREADED HOLES FOR SEALED PASS-THROUGHS,
WATER LEVEL GAUGING HOLE W/ THREAD PLUG, RELEASE VALVE IF NEEDED

MIN 24" (REF PAGE E-2)

TRANSITION TO FLEX CONDUIT

MIN 36"

2" PVC DISCHARGE TO TANK

1/4" to 2" FITTING AS NEEDED

PIT ROD ADAPTOR

1/4" PUMP DISCHARGE

INSTRUMENTATION FROM PANEL

INJECTION BOX INSTRUMENT, FILBES

TRANS DIER AND LEVEL SWITCH CABLES

NOTES

1. INSTRUMENTATION WILL BE SUBMERSIBLE WITH REMOTE VIEWING AT PANEL
DEPTH -0.5' TOP OF CASING (APPROXIMATE)

DEPTH 0 GROUND SURFACE

DEPTH 2' TOP OF BENTONITE SEAL

DEPTH 18' TOP OF FILTER PACK

DEPTH 29' CURRENT STATIC WATER LEVEL

DEPTH 30' HIGH LEVEL SWITCH (APPROXIMATE)

DEPTH 45' LOW LEVEL SWITCH (APPROXIMATE)

DEPTH 50' PRESSURE TRANSDUCER (APPROXIMATE)

DEPTH 54' TOP OF PUMP

DEPTH 58' BOTTOM OF WELL

FLANGED WELLHEAD WITH THREADED HOLES FOR SEALED PASS-THROUGHS. WATER LEVEL GAUGING HOLE WITH THREADED PLUG, AIR RELEASE VALVE IF NEEDED

DISCHARGE PIPE TO WELL VAULT INSTRUMENTATION (REFERENCE DRAFT WELLHEAD DESIGN SKETCH)

CEMENT GROUT

PITLESS ADAPTER

4" SCHEDULE 40 PVC WELL CASING

BENTONITE GROUT

3/8-INCH BENTONITE CHIPS

ELECTRICAL TAPE TO KEEP LEVEL SWITCH CABLES UNTANGLED IN WELL (TYP. EVERY 5 FEET)

4" SCHEDULE 40 PVC SCREEN SLOT SIZE 20

10/20 SILICA SAND

INSTALL HIGH LEVEL SWITCH BELOW STATIC WATER LEVEL (FLOWLINE MODEL #LV10-1301 OR SIMILAR)

1-1/4-INCH GALVANIZED DISCHARGE PIPE

INSTALL LOW LEVEL SWITCH AT TOP OF PUMP (FLOWLINE MODEL #LV10-1301 OR SIMILAR)

INSTALL PRESSURE TRANSDUCER BELOW LOW LEVEL SWITCH (LOCATION TO BE DETERMINED DURING STARTUP TO OBTAIN DESIRED FLOW RATE OF 15 GPM)

4" SUBMERSIBLE PUMP, XYLEM MODEL 25GS10.1 HP, 3 PHASE, 230V MOTOR. INSTALL PUMP 2 FEET OFF WELL BOTTOM

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DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL

ANGULAR:

BEND:

THREE PLACE DECIMAL:

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

APPLICATION

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED

DRAWN

CHECKED

ENG. APPR.

MFG. APPR.

Q.A.

COMMENTS:

DWS. NO.

REV

SCALE: 1:100

WEIGHT:

TITLE:

EVT 10000 - 144 inch

ENDURAPLAS

DATENAME

DNS 9/6/11

SHEET 1 OF 1

TITLE:

EVT 10000 - 144 inch

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