

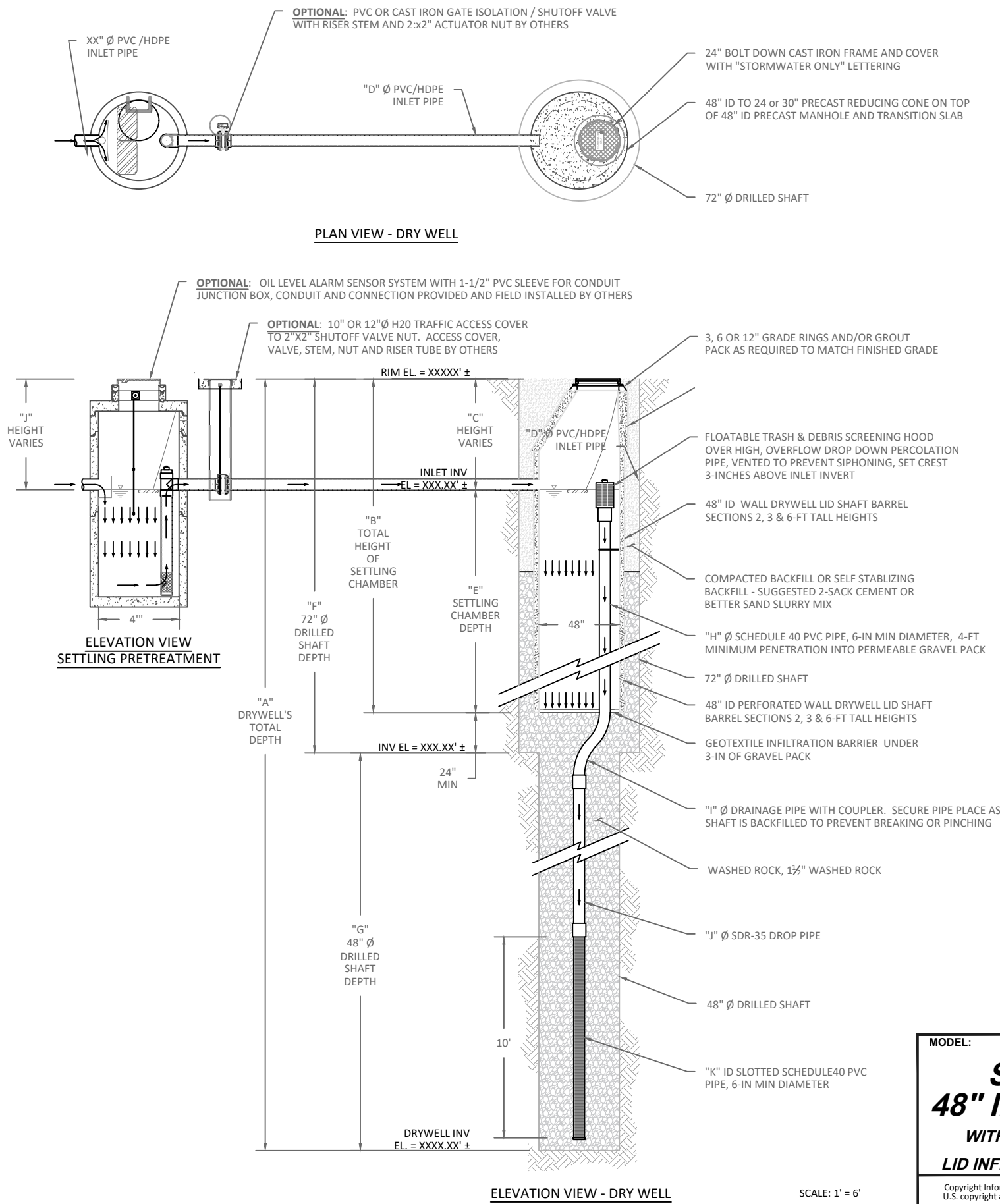
LID DRYWELL DIMENSION TABLE

DIMENSIONS		
LABEL	DESCRIPTION & UNITS	VALUE
A	DRYWELL'S TOTAL DEPTH (XX'-XX")	XX'-XX"
B	SETTLING CHAMBER HEIGHT	XX'-XX"
C	DEPTH TO INLET PIPE INVERT	XX'-XX"
D	INLET PIPE DIAMETER & PIPE TYPE	X"
E*	SETTLING CHAMBER DEPTH BELOW INLET INVERT	XX'-XX"
F	DEPTH OF 72-IN Ø DRILLED SHAFT	XX'-XX"
G	DEPTH OF 48-IN Ø DRILLED SHAFT	XX'-XX"
H	DIAMETER OF PVC OVERFLOW DROP PIPE	X"
I	DIAMETER OF SDR-35 OVERFLOW DROP PIPE	X"
J	PLASTIC DRAINAGE PIPE	X"
K	DIAMETER OF SLOTTED PIPE	X"

\*MINIMUM SETTLING CHAMBER DEPTH BELOW INLET PIPE INVERT, PROVIDES 1,000-GALLON VOLUME

PRECAST STRUCTURE HEIGHTS

48" Ø MANHOLE		
48" Ø DRYWELL	SOLID WALL	XX'-XX"
	PERFORATED WALL	XX'-XX"



**STORMVAULT DRYWELL - LID INFILTRATION SHAFTING**  
**MODEL: SVDW-48, DRYWELL LID SHAFT WITH PRETREATMENT**

**HYDRAULIC INFILTRATION CAPACITY & PRETREATMENT NOTES :**

- INFILTRATION CAPACITY OF A GIVEN DRYWELL IS PRIMARILY DETERMINED BY THE INSTALLATION SITE SOIL CHARACTERISTICS AND THE SURFACE AREA OF THE DRILLED SHAFT.
- THE PERFORATIONS OF THE LINER AND SLOTTED INFILTRATION PIPING ARE SECONDARY, NON-GOVERNING FACTORS IN DETERMINING THE INFILTRATION CAPACITY OF AN INDIVIDUAL DRYWELL.
- PRETREATMENT CONSIDERATIONS FOR THE FOLLOWING WATER QUALITY CONSTITUENTS:
  - FINE AND COARSE SOLIDS AND TOTAL SUSPENDED SOLIDS
  - OIL & GREASE ABSORBENT
  - OIL FLOATATION
  - COARSE SCREENING OF TRASH AND DEBRIS
- PRETREATMENT: SIMPLE WATER QUALITY MANHOLE. MORE ADVANCED PRETREATMENT SYSTEMS AVAILABLE FROM JENSEN STORMWATER TO INCLUDE JENSEN DEFLECTIVE SEPARATOR, JENSEN HIGH VELOCITY INTERCEPTOR, SAND/OIL AND GREASE INTERCEPTORS, TRUE COALESCING MEDIA AND PLATE SYSTEMS AS WELL AS PHYSICAL AND/OR CATIONIC EXCHANGE FILTRATION OF SOLIDS OR TARGETED DISSOLVED HEAVY METALS, NUTRIENTS AND BACTERIA.

**GENERAL NOTES :**

- THIS LAYOUT SKETCH IS PROVIDED IN A SCHEMATIC FORMAT. DETAIL OF JENSEN DIVERSION MANHOLE/BYPASS STRUCTURE WITH ADJUSTABLE WEIR AND OPTION FORMED BASE CHANNELS NOT SHOWN. THIS SHEET IS IN ENGINEERING & CONSTRUCTION FORMATTED DETAIL. ENGINEERING & CONSTRUCTION DETAIL READILY AVAILABLE. CONTACT JENSEN PRECAST.
- PLAN VIEW TOP SLAB WITH FRAMES AND COVERS ARE NOT SHOWN FOR CLARITY.
- INLET/OUTLET PIPE STUBS PROVIDED BY JENSEN PRECAST, PIPE TYPE ADAPTORS PROVIDED BY CUSTOMER.
- OIL SORBENT MATS TO BE EQUIPPED WITH RETAINING CORD AND RING, SECURED TO OR UNDER FRAME AND COVER, FOR HAND ACCESS BY OTHERS.
- DESIGN LOAD: H-20 TRAFFIC FROM 1' TO 6' OF COVER PER ASTM C890 & C915 AND ASSHTO LOADING METHODS.
- CONTACT JENSEN PRECAST FOR OTHER INSTALLATION DEPTHS, INLET/OUTLET CONFIGURATIONS, AND/OR LOADING CONDITIONS FOR STRUCTURAL DESIGN REVISION TO MEET PROJECT SPECIFIC NEEDS.

**CONSTRUCTION NOTES :**

- CONTRACTOR TO VERIFY VERTICAL DIMENSIONS OF ALL PRECAST PIECES IN FIELD.
- VERIFY BASE MATERIAL ELEVATIONS BEFORE PLACING PRECAST COMPONENTS OR BACKFILLING.
- APPLY BUTYL MASTIC AND/OR GROUT TO SEAL JOINTS OF MANHOLE AND DRYWELL JOINTS.
- APPLY LOAD TO MASTIC SEAL IN JOINTS OF PRECAST MANHOLE AND DRYWELL SECTIONS TO COMPRESS SEALANT IF NECESSARY.
- PRECAST MANHOLE AND DRYWELL SECTIONS TO BE SET IN THE CENTER OF THE DRILLED SHAFT.

**MATERIALS :**

- ALL DIMENSIONS ARE IN FEET OR DECIMAL INCHES.
- PRECAST MATERIALS AND MANUFACTURING METHODS OF CONES AND CYLINDERS REINFORCED TO CONFORM TO C-478.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'c = 4,000-psi AT 28-DAYS.
- THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE II/V HIGH SULFATE RESISTANT CEMENT IN ACCORDANCE WITH ASTM CLASS M C-150.
- GEOTEXTILE BARRIER SHALL BE 4-ONCE NON-WOVEN FABRIC.

**LIFTING WEIGHTS :**

- HEAVIEST PICK WEIGHT IS 3,600-LBS
- JENSEN CRANE TRUCK CAN SET A MAXIMUM OF 25,000-LBS AT 15-FT OFFSET DISTANCE FROM CENTER OF CRANE TRUNNION.

**REGULATORY NOTES :**

- DRY WELL MUST BE REGISTERED WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ).
- PRECAST LID SHAFT MUST PENETRATE INTO THE PERMEABLE SAND AND GRAVEL LAYER A MINIMUM OF 10-FT AND SHALL BE VERIFIED BY INSPECTION.
- MAINTAIN OR REPLACE DRYWELL TO ENSURE SURFACE WATER IS DRAINED VIA INFILTRATION WITHIN 36-HOURS. MAINTAIN PER MAINTENANCE GUIDELINES OR REPLACE.

<b>MODEL:</b> <b>SVDW-48</b> <b>48" ID DRYWELL</b> WITH PRE-TREATMENT <b>LID INFILTRATION SHAFTING</b>		<b>PROJECT:</b> PROJECT NAME CITY, STATE			
ORG. DWG. DATE 6/4/2020	SCALE: AS SHOWN	SHEET SIZE 11" X 17"	DRAWN BY W. STEIN	SHEET NUMBER SVDW48	

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