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

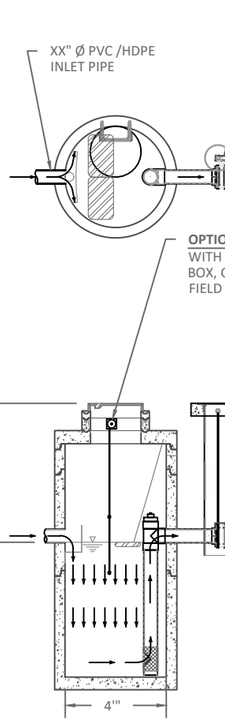
LID DRYWELL DIMENSION TABLE

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"

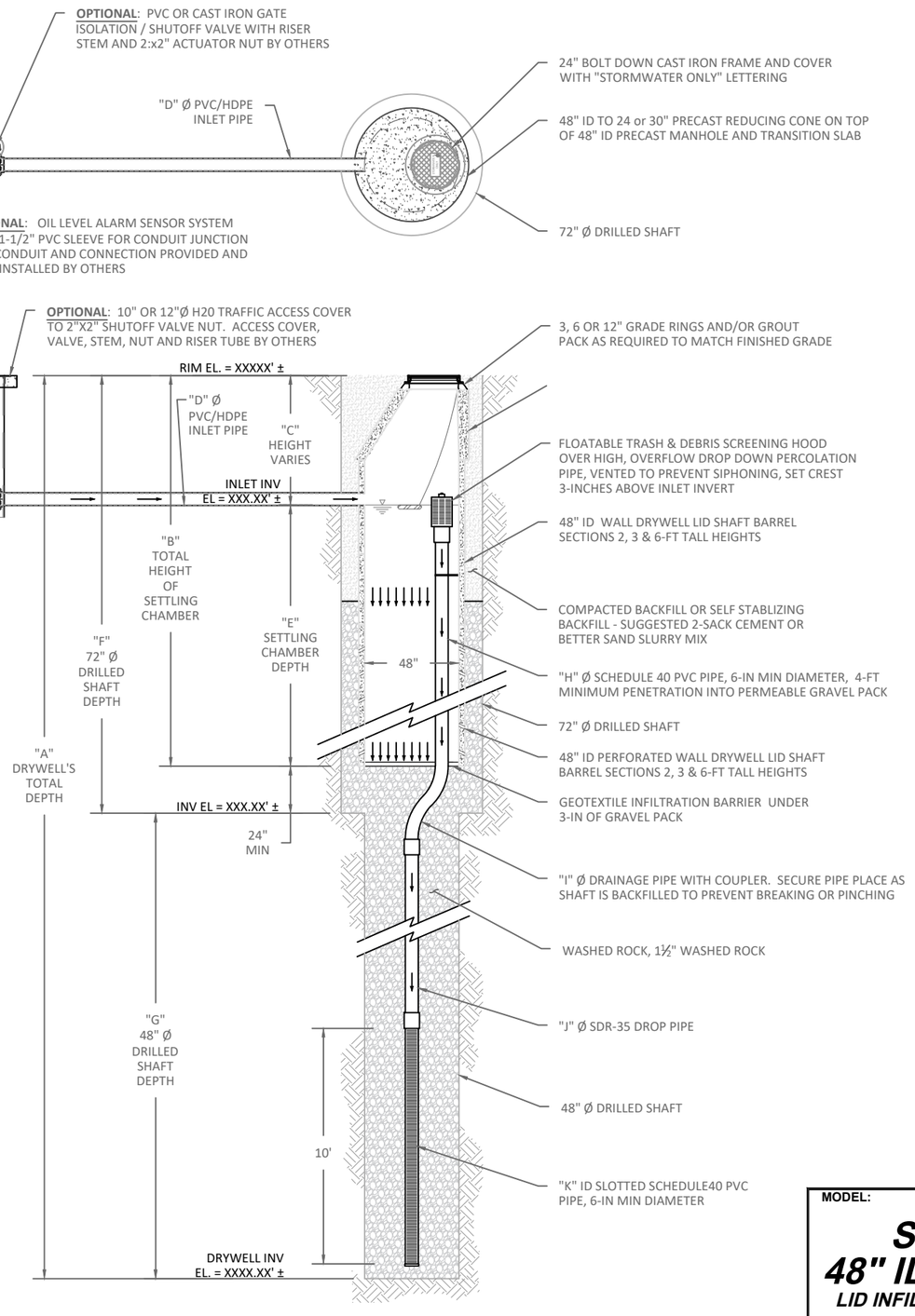
*MINIMUM SETTLING CHAMBER DEPTH BELOW INLET PIPE INVERT, PROVIDES 1,000-GALLON VOLUME

PRECAST STRUCTURE HEIGHTS

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



ELEVATION VIEW
SETTLING PRETREATMENT



ELEVATION VIEW - DRY WELL

SCALE: 1' = 6'

HYDRAULIC INFILTRATION CAPACITY & PRETREATMENTNOTES :

1. INFILTRATION CAPACITY OF A GIVEN DRYWELL IS PRIMARILY DETERMINED BY THE INSTALLATION SITE SOIL CHARACTERISTICS AND THE SURFACE AREA OF THE DRILLED SHAFT.
2. THE PERFORATIONS OF THE LINER AND SLOTTED INFILTRATION PIPING ARE SECONDARY, NON-GOVERNING FACTORS IN DETERMINING THE INFILTRATION CAPACITY OF AN INDIVIDUAL DRYWELL.
3. 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
5. 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 :

1. 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.
2. PLAN VIEW TOP SLAB WITH FRAMES AND COVERS ARE NOT SHOWN FOR CLARITY.
3. INLET/OUTLET PIPE STUBS PROVIDED BY JENSEN PRECAST, PIPE TYPE ADAPTORS PROVIDED BY CUSTOMER.
4. OIL SORBENT MATS TO BE EQUIPPED WITH RETAINING CORD AND RING, SECURED TO OR UNDER FRAME AND COVER, FOR HAND ACCESS BY OTHERS.
5. DESIGN LOAD: H-20 TRAFFIC FROM 1' TO 6' OF COVER PER ASTM C890 & C915 AND ASSHTO LOADING METHODS.
6. 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 :

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

MATERIALS :

1. ALL DIMENSIONS ARE IN FEET OR DECIMAL INCHES.
2. PRECAST MATERIALS AND MANUFACTURING METHODS O OF CONES AND CYLINDERS REINFORCED TO CONFORM TO C-478.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'c = 4,000-psi AT 28-DAYS.
4. 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.
5. GEOTEXTILE BARRIER SHALL BE 4-ONCE NON-WOVEN FABRIC.

LIFTING WEIGHTS :

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

REGULATORY NOTES :

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

MODEL:
SVDW-48
48" ID DRYWELL
LID INFILTRATION SHAFTING

PROJECT:
PROJECT NAME
CITY, STATE

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ORG. DWG. DATE	SCALE:	SHEET SIZE	DRAWN BY	SHEET NUMBER
6/4/2020	AS SHOWN	11" X 17"	W. STEIN	SVDW42

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