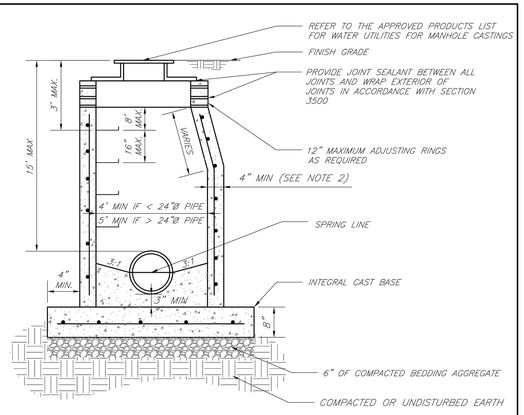


NOTES:
1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH (1/12) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THEN 15'.
3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
4. ONLY ECCENTRIC MANHOLE CONES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.
6. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.
7. REFER TO THE APPROVED PRODUCTS LIST FOR APPROVED STEPS.

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD PRECAST MANHOLE – SANIT

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: SAN-2

The scruffy dome is made of galvanised steel and is used in stormwater applications to provide a debris and security screen for manholes.

Design Specifications

- The type 1 debris screen is a full height design, suitable for manholes with a 600mm diameter or larger. *(Refer to figure 1)*
- The type 2 debris screen has a lower height profile making it less noticeable in areas such as parks and gardens. Suitable for manholes with a diameter of 600 mm or larger. *(Refer to figure 2)*

Installation

- Dome brackets are bolted to the manhole riser with stainless steel bolts.
- The bolts are purchased separately.

Note: *The North Island and South Island have different versions of Scruffy Domes with small changes in the bracket design (See photos below). Please contact your local Hynds branch for more information.*

North Island Scruffy Dome

South Island Scruffy Dome

DS 14 SCRUFFY DOMES | DRAWING 1 PG 2

Product Code	Manhole (mm)	Type	Riser ID (mm)	A = OD of Grille (mm)	B = Diameter of Inner Ring (mm)	C = Height of Dome (mm)	D = Leg Length (mm)
Type 1 High Profile							
MHD0600S	600	1	610	640	145	300	190
MHD0675S	675	1	686	715	145	300	190
MHD0900S	900	1	914	950	230	500	190
MHD1050S	1050	1	1066	1125	230	565	190
MHD1050S-H*	1050	1	1066	1125	230	565	190
MHD1200S	1200	1	1207	1270	230	635	190
MHD1200S-H*	1200	1	1207	1270	230	635	190
MHD1400S	1400	1	1372	1430	230	715	190
MHD1500S	1500	1	1524	1580	230	790	190
MHD1650S	1650	1	1676	1740	230	870	190
MHD1800S	1800	1	1829	1900	230	950	190
Type 2 Low Profile							
MHD0600S2	600	2	610	640	145	150	190
MHD0675S2	675	2	686	715	145	150	190
MHD0900S2	900	2	914	950	230	170	190
MHD1050S2	1050	2	1066	1125	230	200	190
MHD1050S2HL*	1050	2	1066	1125	230	200	190
MHD1200S2	1200	2	1207	1270	230	360	190
MHD1200S2HL*	1200	2	1207	1270	230	360	190
MHD1400S2	1400	2	1372	1430	230	390	190
MHD1500S2	1500	2	1524	1580	230	435	190
MHD1650S2	1650	2	1676	1740	230	480	190
MHD1800S2	1800	2	1829	1900	230	520	190

Note: *Larger sizes 2000, 2300, 2550, 3000mm are available on request*
**H - hinged HL - hinged and lockable*

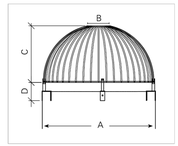


FIG. 1 Dimensions of Type 1 Hynds Scruffy Dome (see table).

Note: *Brackets shown here are not supplied. Please see the North Island and South Island Scruffy Domes photos.*

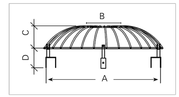
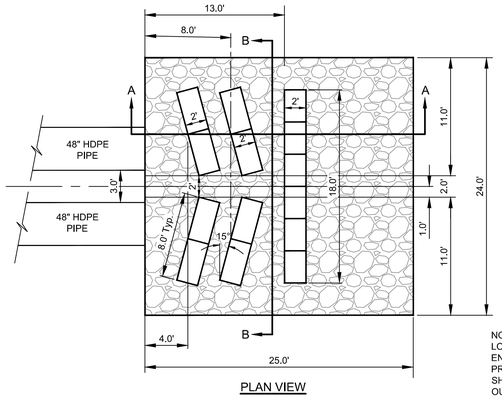


FIG. 2 Dimensions of Type 2 Hynds Scruffy Dome (see table).

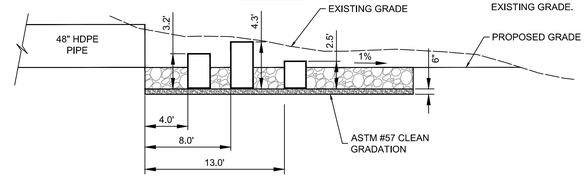
Note: *Brackets shown here are not supplied. Please see the North Island and South Island Scruffy Domes photos.*

DS 14 SCRUFFY DOMES | DRAWING 1 PG 3

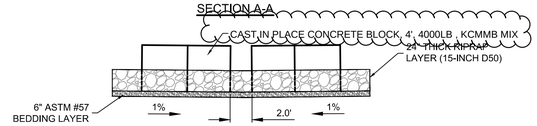


PLAN VIEW

NOTE:
LONGITUDINAL SLOPE OF ENERGY DISSIPATOR AND PROPOSED GRADING SHALL BE @ 1% FROM PIPE OUTLET TO THE MATCH OF EXISTING GRADE.

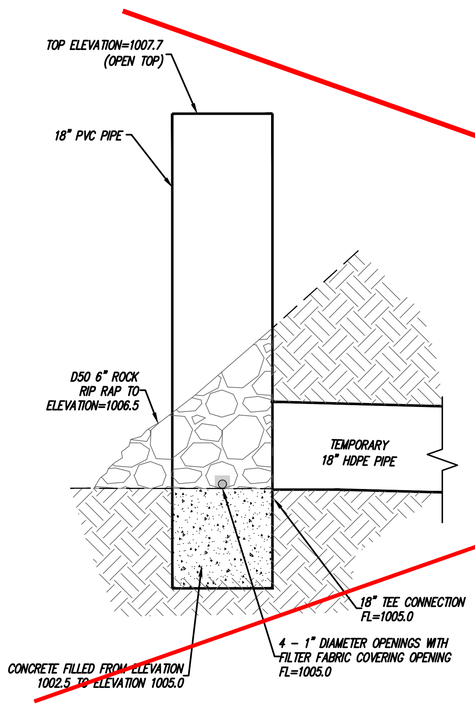


SECTION A-A

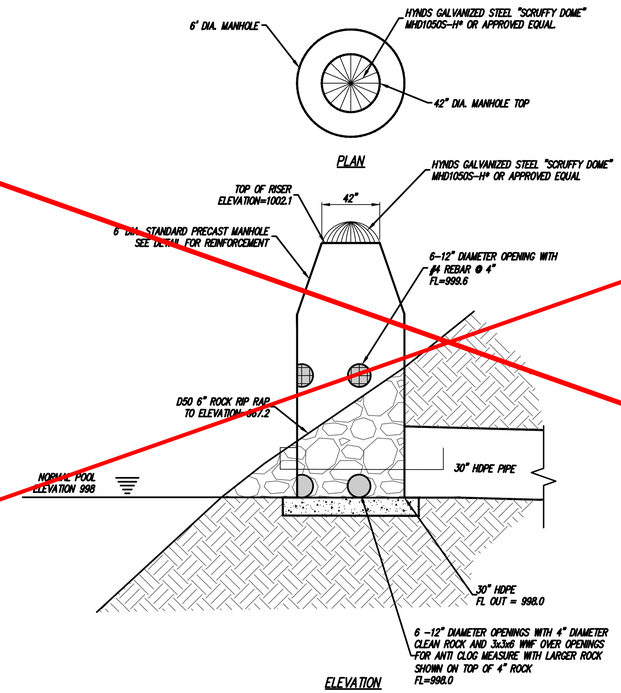


SECTION B-B

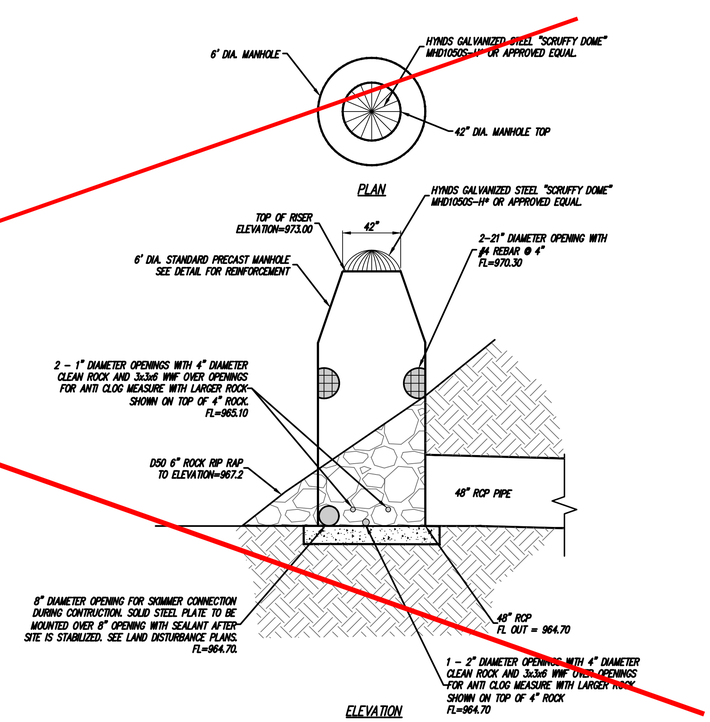
ENERGY DISSIPATOR DETAIL



TEMPRORARY PVC RISER STRUCTURE DET 4B
DETENTION RELEASE STRUCTURE
NTS



SOUTH DETENTION RELEASE
STRUCTURE
NOT TO SCALE



NORTH DETENTION RELEASE STRUCTURE (TYPICAL OF 2)
NOT TO SCALE

NO.	DATE	REVISION	BY	CK/APP
6	07/30/19	PER CITY'S COMMENTS	SPW	RKS
5	07/03/19	PER CITY'S COMMENTS	SPW	RKS
4	04/23/19	PER CITY'S COMMENTS	SPW	RKS
3	04/16/19	PER CITY'S COMMENTS	SPW	RKS
2	03/27/19	PER CITY'S COMMENTS	SPW	RKS
1	03/08/19	PER CITY'S COMMENTS	SPW	RKS
	11/26/18	SUBMITTAL TO CITY OF LEE'S SUMMIT	SPW	RKS
7	12/18/20	Revised for dissipator block material	RKS	RKS

IF THIS IS NOT A BLUE INK SEAL AND THE SIGNATURE IN BLUE INK, THE PLAN IS A COPY AND MAY CONTAIN UNAUTHORIZED ALTERATIONS. THE CERTIFICATION CONTAINED ON THIS DOCUMENT SHALL NOT APPLY TO ANY COPIES

STATE OF MISSOURI
RICHARD KEVIN SUMMERS
NUMBER E-26440
PROFESSIONAL ENGINEER

R. KEVIN STERRETT | MO E-26440
July 3, 2019

Consult Inc engineers planners
11010 Haskell Street, Suite 210, Kansas City, Kansas 66109
CORPORATE LICENSE No. E2010000573 (MO.) / E-1736 (KS.)

STREET AND STORM SEWER PLANS
NORTH AND SOUTH DETENTION BASINS
OUTLET STRUCTURE DETAILS
COBEY CREEK FIRST PLAT
PHASE I
CITY OF LEES SUMMIT, JACKSON COUNTY, MISSOURI

X-REF NO. 16-059 Base Phase I
DRAWING NO. 16-059 Phase I Street Plans
DATE July 30, 2019
JOB NO. 16-059