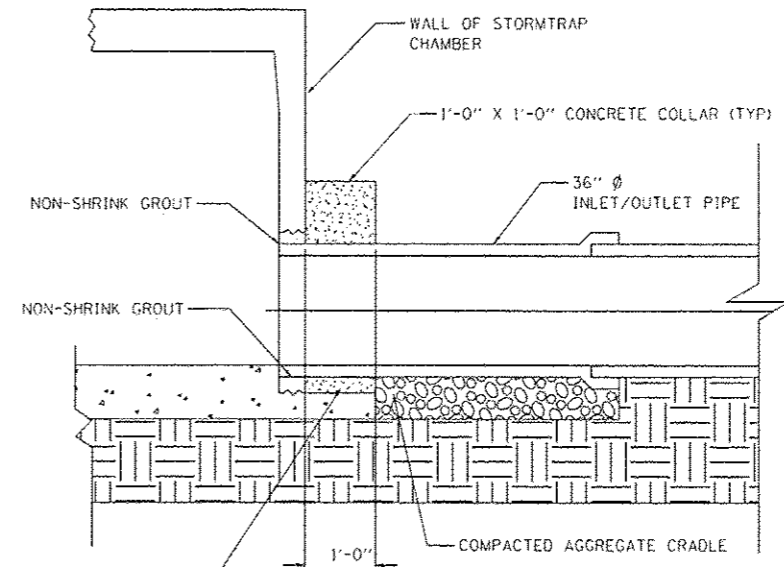


RECOMMENDED ACCESS MANHOLE SPECIFICATION

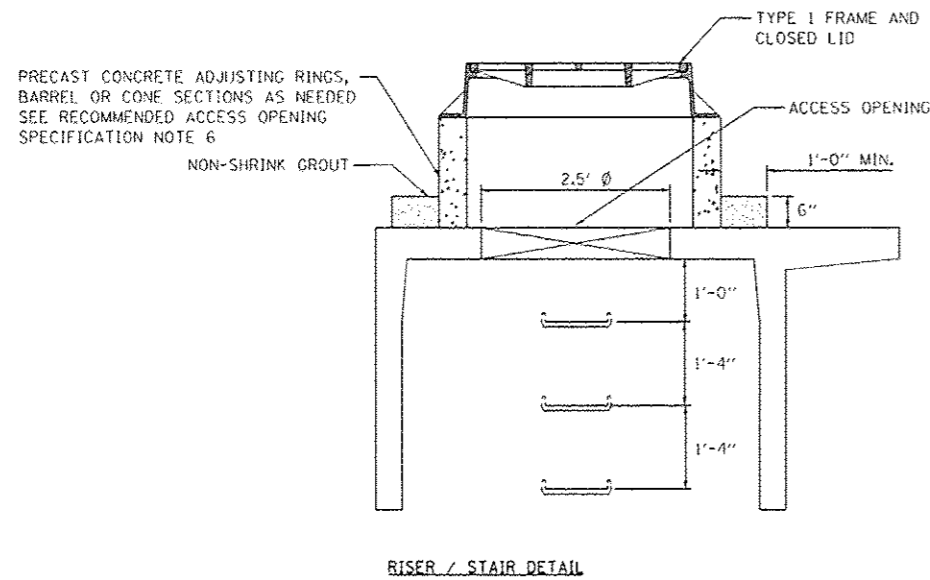
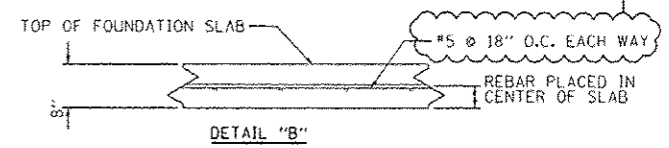
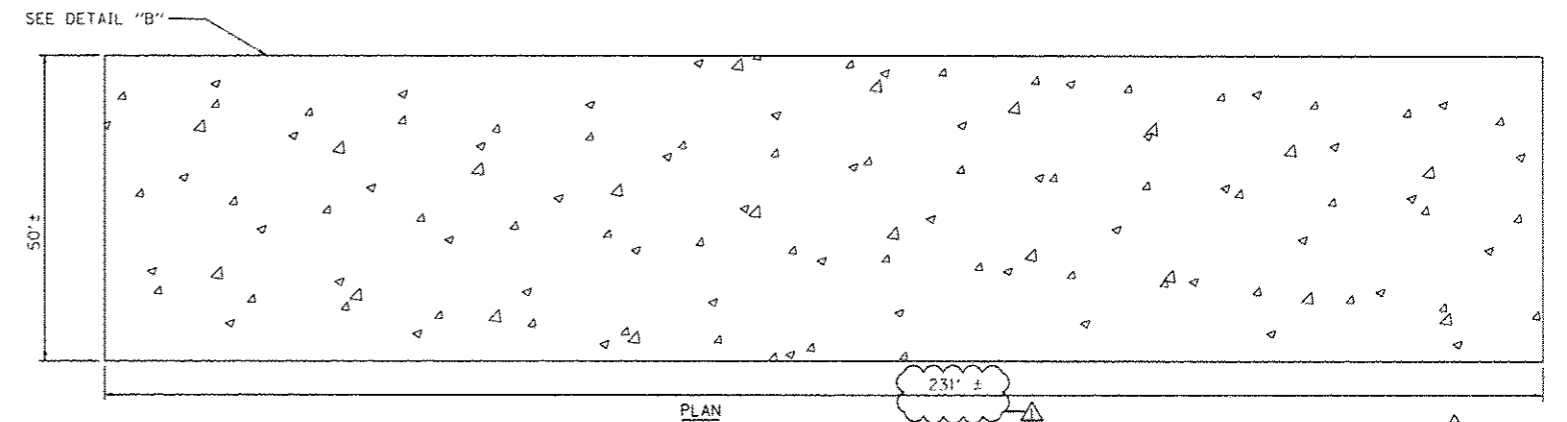
1. ACCESS MANHOLES SHOULD BE PROVIDED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. PROVIDE THREE (3) ACCESS MANHOLES AS LOCATED ON SHEET C1 FOR INSPECTION AND CLEANUP.
2. A TYPICAL ACCESS MANHOLE FOR THE STORMTRAP SYSTEM RANGES FROM 2'-0" TO 3'-0" IN DIAMETER. ACCESS MANHOLE LARGER THAN 3'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 1'-0" OF CLEARANCE IN ALL DIRECTIONS FROM THE EDGE OF THE STORMTRAP UNITS.
3. PLASTIC COATED STEEL STEPS PRODUCED BY M.A. INDUSTRIES PART #PS3-PFC (SEE DETAIL TO THE RIGHT) ARE PROVIDED INSIDE ANY UNIT WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE UNIT IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP UNITS. ALL ENSUING STEPS SHALL BE PLACED WITH A MAXIMUM DISTANCE OF 1'-4" BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENING OR OTHER IRREGULARITIES IN THE UNIT.
4. STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO COINCIDE WITH THE ACCESS OPENING OR THE CENTER OF GRAVITY OF THE UNIT AS NEEDED.
5. STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
6. USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE SECTIONS.

RECOMMENDED PIPE CONNECTION SPECIFICATION

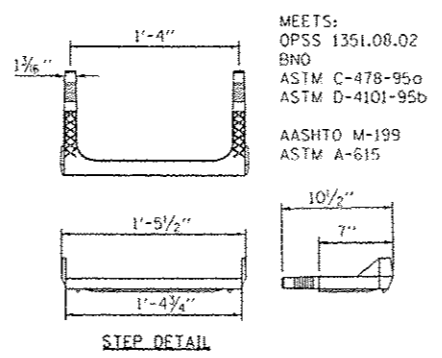
1. MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
2. MAXIMUM OPENING SIZE TO BE DETERMINED BY UNIT HEIGHT. PREFERRED OPENING SIZE 36" Ø OR LESS. ANY OPENING NEEDED THAT DOES NOT FIT THIS CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF STORMTRAP FOR REVIEW.
3. CONNECTING PIPES SHALL BE INSTALLED WITH A 1'-0" CONCRETE COLLAR, AND A COMPACTED AGGREGATE CRADLE FOR AT LEAST ONE PIPE LENGTH, AS SHOWN. A STRUCTURAL GRADE CONCRETE OR GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI SHALL BE USED.
4. CLEAN AND LIGHTLY LUBRICATE ALL OF PIPE TO BE INSERTED INTO STORMTRAP.
5. IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
6. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.
7. THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH NON-SHRINK GROUT.



FOUNDATION PIPE CONNECTION



RISER / STAIR DETAIL



STEP DETAIL

MEETS:
 OPSS 1351.08.02
 BNO
 ASTM C-478-95a
 ASTM D-4101-95b
 AASHTO M-199
 ASTM A-615

NOTES:

1. CONCRETE STRENGTH 3500 PSI @ 14 DAYS. 5%-8% ENTRAINED AIR, 4" MAX. SLUMP.
2. NET ALLOWABLE SOIL PRESSURE GREATER THAN OR EQUAL TO 4000 PSF.
3. SOIL CONDITIONS TO BE VERIFIED ON SITE BY OTHERS.
4. 1'-0" OVERHANG AROUND OUTSIDE OF SYSTEM.
5. REBAR: ASTM A-615 GRADE 60, BLACK BAR.
6. DIMENSION OF FOUNDATION MUST HAVE 1'-0" OVERHANG BEYOND EXTERNAL FACE OF UNITS.
7. DIMENSION OF STORMTRAP SYSTEM ALLOW FOR A 3/4" GAP BETWEEN EACH UNIT.
8. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
9. SEE SHEET C6 FOR INSTALLATION SPECIFICATIONS.
10. THE CONTROL JOINTS CAN BE 16'-0" TO 24'-0" MAX APART.

ACCESS MANHOLE

PROVIDE MINIMUM 3 ACCESS MANHOLES. SEE LOCATIONS ON SHEET C1

CONCRETE FOUNDATION SLAB

11/25/2014 13:46:37
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 NEWMANN
 11/25/2014 13:46:37

FILE NAME *	USER NAME * #USER#	DESIGNED - IDOT	REVISED - Δ ADDENDUM NO. 1 11/25/2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 745 / IL ROUTE 104	IL-104 PUMP STATION UNDERGROUND STORAGE CHAMBER DETAILS - 2 OF 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - KS	REVISED -			745	109RS-6, 123RS-3, *	MORGAN/PIKE	782	591
exp U.S. Services Inc. Chicago IL BUSINESS-GARTIA ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABLE	PLOT SCALE * \$SCALE#	CHECKED - SH	REVISED -			* 123B-2, 124RS-B		CONTRACT NO. 72B58		
DATE - 11/25/2014	PLOT DATE * #DATE#	DATE - 11/25/2014	REVISED -			SCALE: N.T.S.	SHEET CT OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT