

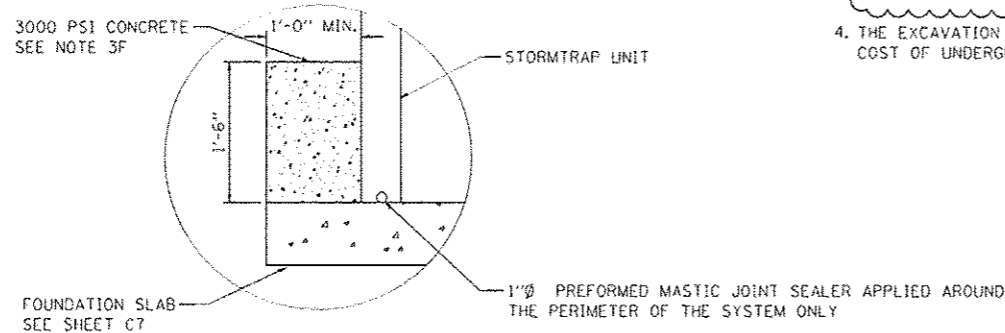
**STORMWATER STORAGE CHAMBER SPECIFICATIONS**

1. STORMWATER STORAGE CHAMBER SHALL BE CONSTRUCTED ACCORDING TO SPECIAL PROVISION FOR STORMWATER STORAGE CHAMBER AND THESE PLAN DETAILS.
2. STORMTRAP MODULES SHALL BE MANUFACTURED ACCORDING TO SHOP DRAWINGS APPROVED BY ENGINEER. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ACCESS OPENINGS AND INLET/ OUTLET PIPE OPENINGS.
3. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891-09, STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRE-CAST CONCRETE UTILITY STRUCTURES. THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY:
  - A. SPECIFICATIONS ON THE CONTRACT DRAWINGS SHALL TAKE PRECEDENCE.
  - B. STORMTRAP MODULES SHALL BE PLACED ON LEVEL FOUNDATION SLAB (SEE SHEET C7) WITH A 1'-0" OVERHANG ON ALL SIDES.
  - C. THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 3/4". IF THE SPACE EXCEEDS 3/4", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
  - D. THE PERIMETER HORIZONTAL JOINT OF THE STORMTRAP MODULES SHALL BE SEALED TO THE FOUNDATION SLAB WITH PREFORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891-09 8.8 AND 8.12.

- E. ALL EXTERIOR JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN BONDED TO A WOVEN HIGHLY PUNCTURE RESISTANT POLYMER WRAP CONFORMING TO ASTM C891-09 AND SHALL BE 0'-8" INTEGRATED PRIMER SEALANT AS APPROVED BY STORMTRAP. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
  1. USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE THE JOINT WRAP IS TO BE APPLIED.
  2. A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (BUTYL SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.
- F. THE STORMTRAP SYSTEM SHALL BE BACKFILLED WITH 3000 PSI CONCRETE 1'-6" ABOVE THE HORIZONTAL JOINT WHERE THE STORMTRAP UNIT MEETS THE POURED FOUNDATION SLAB. THIS FILL MUST BE 1'-0" WIDE AROUND THE PERIMETER OF THE ENTIRE SYSTEM (SEE DETAIL "A" ON THIS SHEET).
- G. THE BACKFILL PLACED AROUND THE STORMTRAP UNITS MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY OR OTHERWISE SPECIFIED BY ENGINEER. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, (REFERENCE ARTICLE 502.10 I.D.O.T. STANDARD SPECIFICATIONS) CARE SHALL ALSO BE TAKEN TO NOT DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MATERIAL SHALL BE 1/4" TO 3/4" WASHED COURSE AGGREGATE STONE OR APPROVED EQUAL.
4. THE EXCAVATION BRACING SYSTEM, EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE COST OF UNDERGROUND STORAGE CHAMBER.

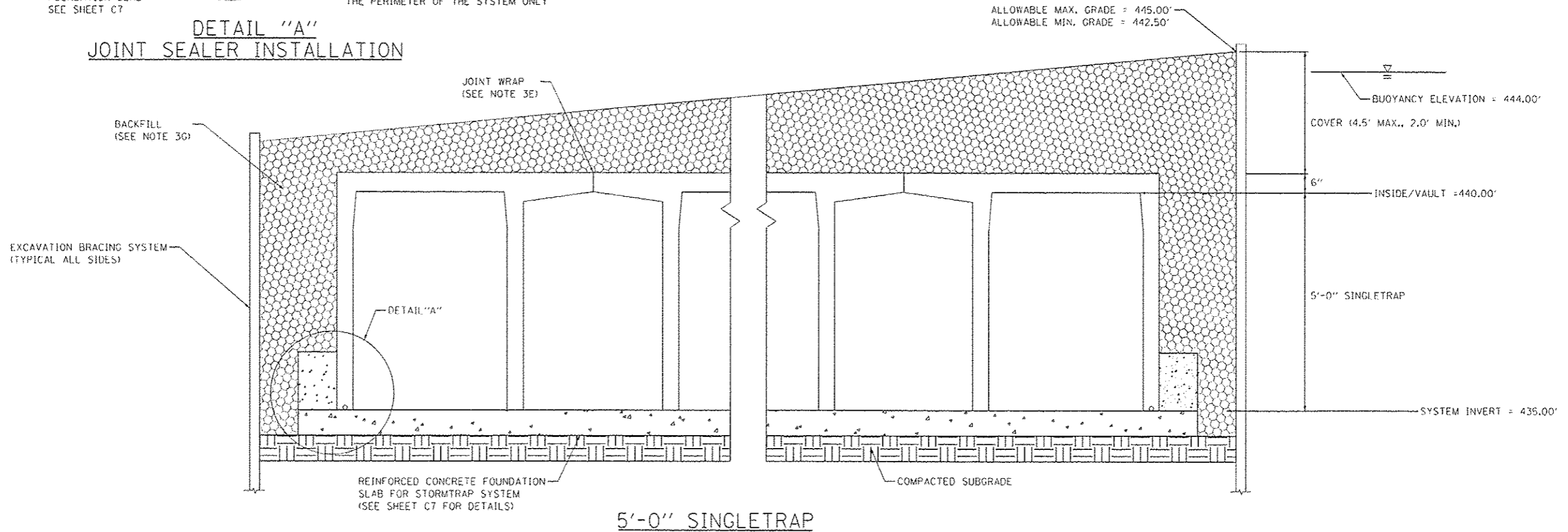
**DESIGN SPECIFICATIONS**

1. TOTAL COVER: MIN. 2.00', MAX. 4.50'.
2. CONCRETE CHAMBER DESIGNED FOR AASHTO HS-20 HIGHWAY LOADING. MIN. SOIL PRESSURE 4000 PSF.
3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO STORMTRAP INSTALLATION.
4. FOR STRUCTURAL AND FLOTATION CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE AT THE 50-YEAR DESIGN ELEVATION OF 444.00.



**DETAIL "A"  
JOINT SEALER INSTALLATION**

NOTE: DETAILS SHOWN ARE SPECIFIC TO THE STORMTRAP SYSTEM. EQUIVALENT STORMWATER STORAGE SYSTEMS AS LISTED IN THE SPECIFICATIONS OR APPROVED BY THE ENGINEER MAY ALSO BE USED.



**5'-0" SINGLETRAP**

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FILE NAME =	USER NAME = #USER#	DESIGNED - KS	REVISED -  ADDENDUM NO. 1 11/25/2014	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> FAP ROUTE 745 / IL ROUTE 104	<b>IL-104 PUMP STATION</b> <b>UNDERGROUND STORAGE CHAMBER</b> <b>DETAILS - 1 OF 3</b>	F.A.P. RTE. = 745	SECTION = 109R5-6, 123R5-3, 123R5-2, 124R5-8	COUNTY = MORGAN/PIKE	TOTAL SHEETS = 782	SHEET NO. = 590		
exp. U.S. Services Inc.	PLOT SCALE = #SCALE#	DRAWN - KS	REVISED -			SCALE: N.T.S.	SHEET C6 OF 8 SHEETS STA. TO STA.	CONTRACT NO. 72B58				
exp. BUILDINGS-EARTH ENVIRONMENT-ENERGY	PLOT DATE = #DATE#	CHECKED - SH	REVISED -			ILLINOIS FED. AID PROJECT						
exp. INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	DATE = 11/25/2014	DATE = 11/25/2014	REVISED -									