

**TOWN OF WATERTOWN  
WATERTOWN, CONNECTICUT**

**NOTICE OF BID**

**ADDENDUM #1**

**Date Issued: August 7, 2023**

Hungerford Ave.  
Storm Drainage Installation Bid  
Watertown Public Works Department

**The Town of Watertown is hereby issuing this said Addendum Number 1 for the above noted project:**

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**TECHNICAL SPECIFICATIONS  
CURBING**

Additional Language for bid:

Catch Basin-(Type)

Notice of Bid includes provisions for Catch Basins

The Town will supply all parts need to build catch basins and tops, as needed. The Contractor will supply all block and mortar for installation of provided catch basins as required by bid specifications. All tops shall be set to existing road grade and dry set

**TECHNICAL SPECIFICATIONS  
STORM SEWER SYSTEM**

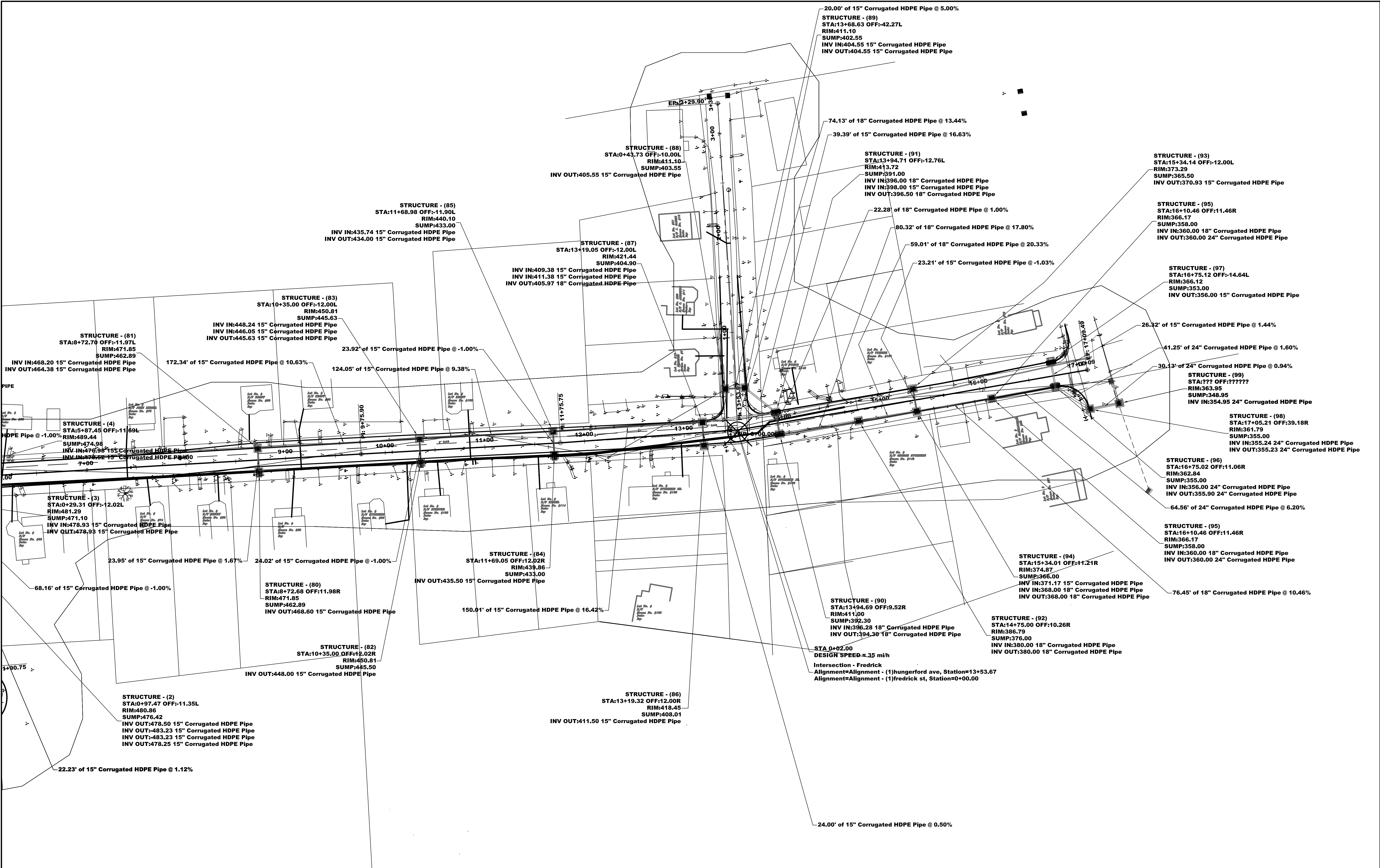
Additional Language for bid:

Pipe – (Size and Type):

Notice of Bid also includes provision of drainage pipes.

The Town will supply all parts for the drainage pipes as required by bid specifications. The Contractor will supply all stone and additional processed gravel required to completed by the Contract (See attached specifications)

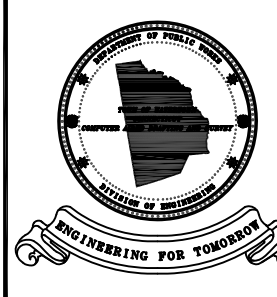
**This Addendum includes the attached Addendum Drawings**



NO.	REVISIONS	BY	DATE	DES BY:	DATE:	SUBMITTED BY:	DATE:	PROJECT TITLE:	DRAWING TITLE:	PROJECT NO.
				DRN BY:		APPROVED BY:		HUNGERFORD AVENUE RECONSTRUCTION ROADWAY IMPROVEMENTS	HUNGERFORD AVENUE DRAINAGE STA. 8+72.69 TO 17+00	FILE NO.
				CHK BY:	SCALE:					DRAWING NO.
				APPD BY:		ENGINEER:				SHEET NO.



TOWN OF WATERTOWN  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF ENGINEERING

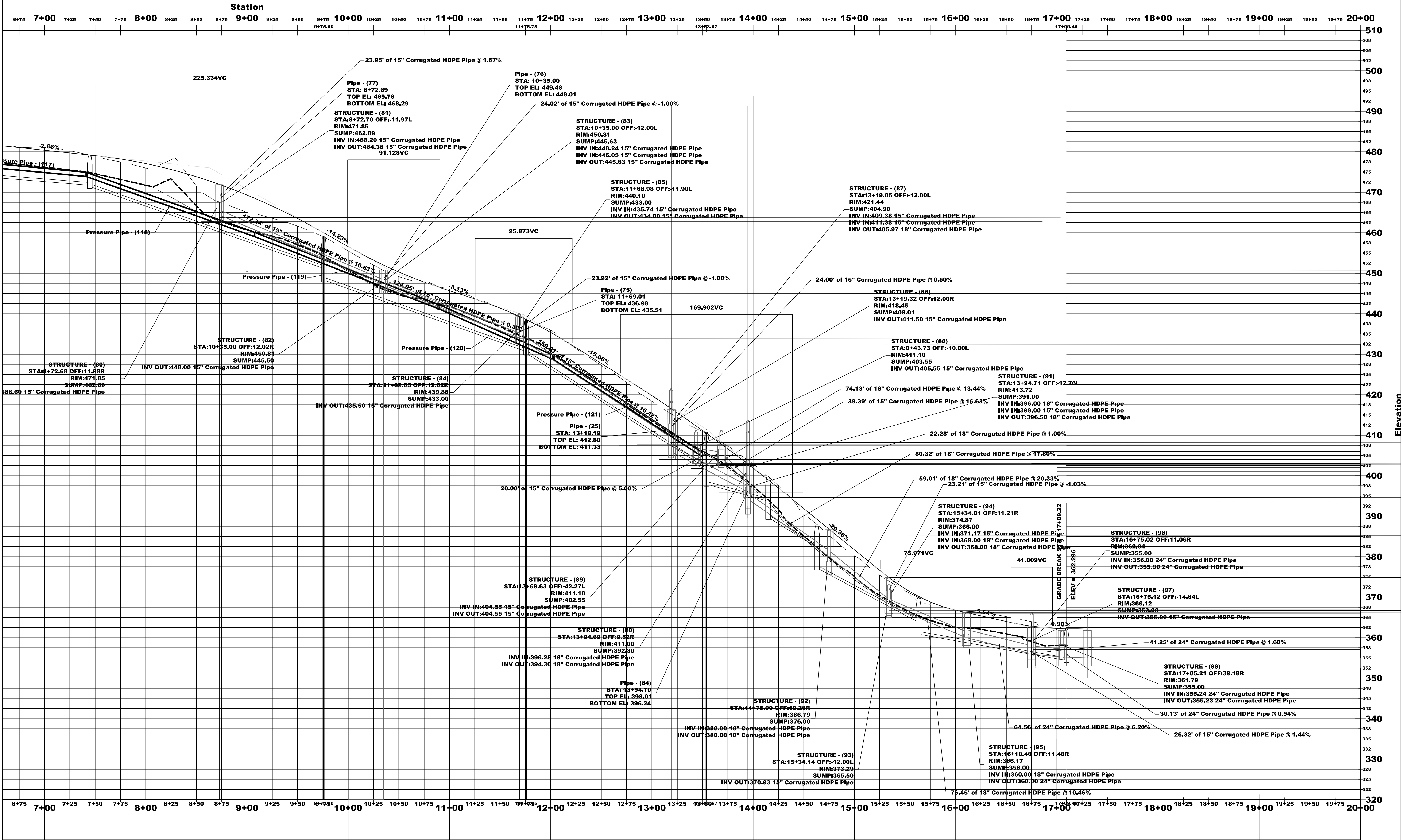



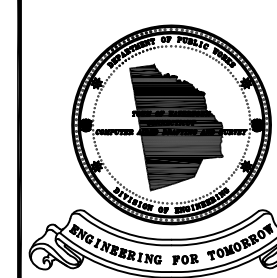
PROJECT TITLE:  
**HUNGERFORD AVENUE RECONSTRUCTION  
ROADWAY IMPROVEMENTS**

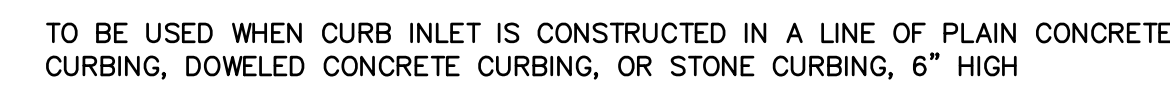
DRAWING TITLE:  
**HUNGERFORD AVENUE DRAINAGE  
STA. 8+72.69 TO 17+00**

PROJECT NO.  
FILE NO.  
DRAWING NO.  
SHEET NO.

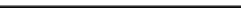
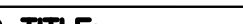
Alignment - (1)hungerford ave PROFILE



NO.	REVISIONS	BY	DATE	DES BY:	DATE:	SUBMITTED BY:	DATE:		TOWN OF WATERTOWN DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		PROJECT TITLE:	DRAWING TITLE:	PROJECT NO.
				DRN BY:		APPROVED BY:					FILE NO.		
				CHK BY:	SCALE:						DRAWING NO.		
				APPD BY:		ENGINEER:					SHEET NO.		



TO BE USED WHEN CURB INLET IS CONSTRUCTED IN A LINE OF BITUMINOUS CONCRETE  
LIP CURB, 6" HIGH

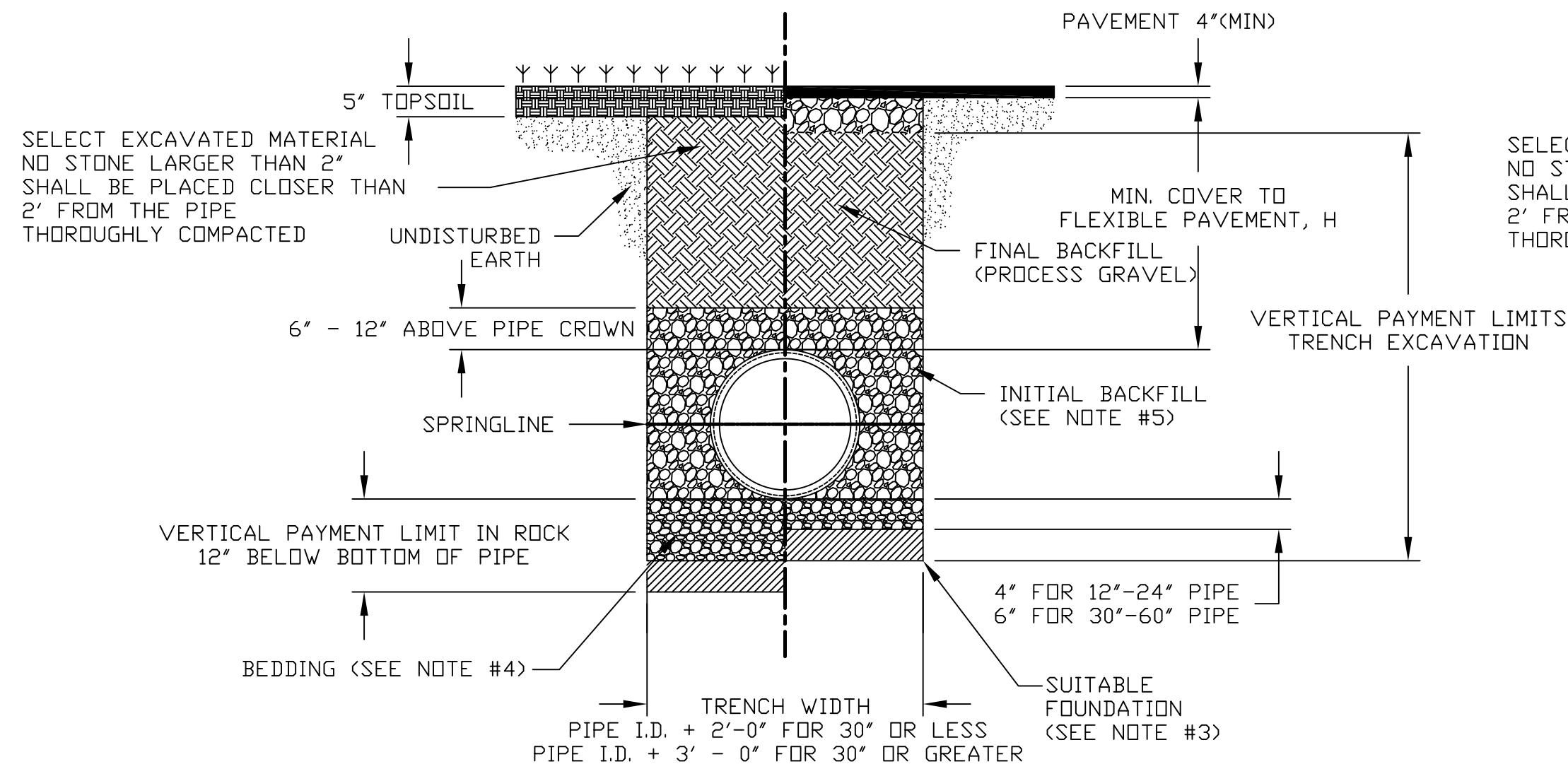
NO.	REVISIONS	BY	DATE	DES BY: J.M.M.	DATE: 3-2-2009		TOWN OF WATERTOWN DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		PROJECT TITLE:  TOWN OF WATERTOWN STANDARD DRAWINGS	DRAWING TITLE:  TYPE " C " CATCH BASIN	PROJECT NO. <>
				DRN BY: J.M.M.							FILE NO. <>
				CHK BY: R.S.	SCALE: N.A.						DRAWING NO. 153WTN-3A
				APPD BY: R.C.	SUBMITTED BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____						SHEET NO. 153WTN-3A



# N-12 HP STORM TRENCH INSTALLATION DETAIL ROADWAY OR IN LANDSCAPED OR GRASS AREAS

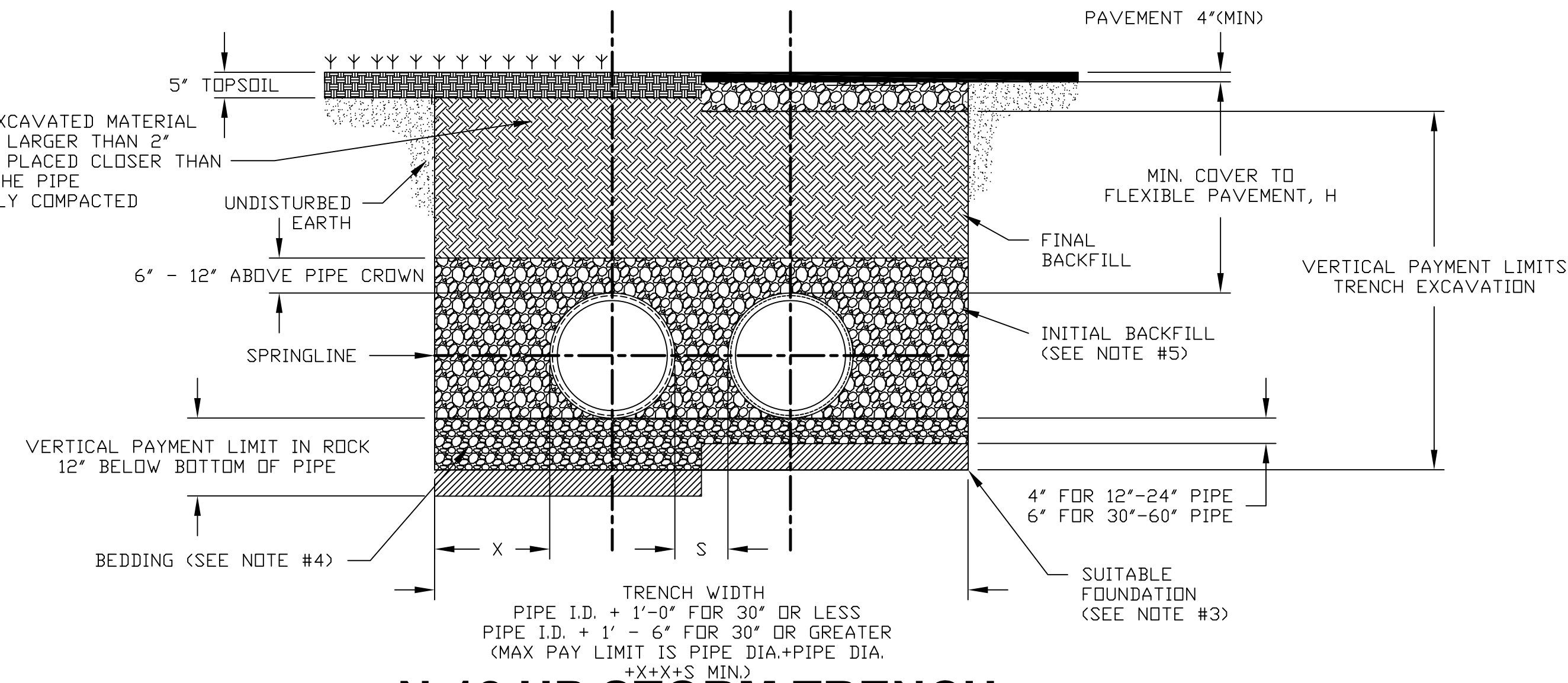
NOTES:

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT.



## **N-12 HP STORM TRENCH** **INSTALLATION DETAIL (STANDARD)**

NOT TO SCALE

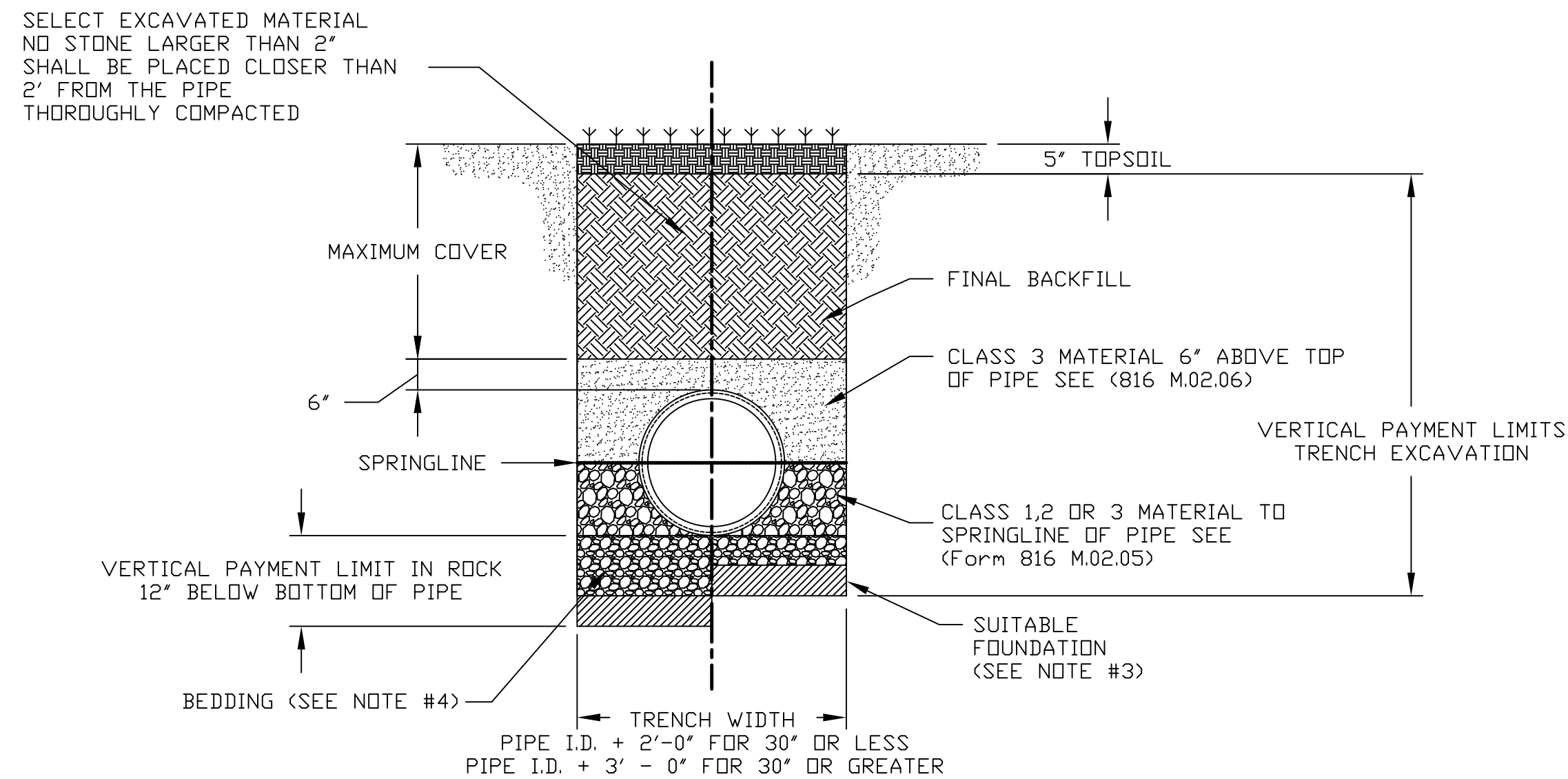


## N-12 HP STORM TRENCH INSTALLATION DETAIL (PARALLEL)

NOT TO SCALE

NOTES:

7. N-12 HP ALTERNATE STORM TRENCH DETAIL MUST BE APPROVED BY DESIGN ENGINEER. DETAIL DOES NOT SUPERSEDE ADS STANDARD DETAIL STD-108.



## N-12 HP STORM TRENCH INSTALLATION DETAIL (ALTERNATE)

NOT TO SCALE

### MINIMUM RECOMMENDED COVER BASED ON LOADING CONDITIONS

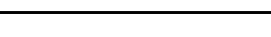
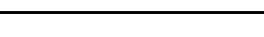
	SURFACE LIVE LOADING CONDITION	
PIPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

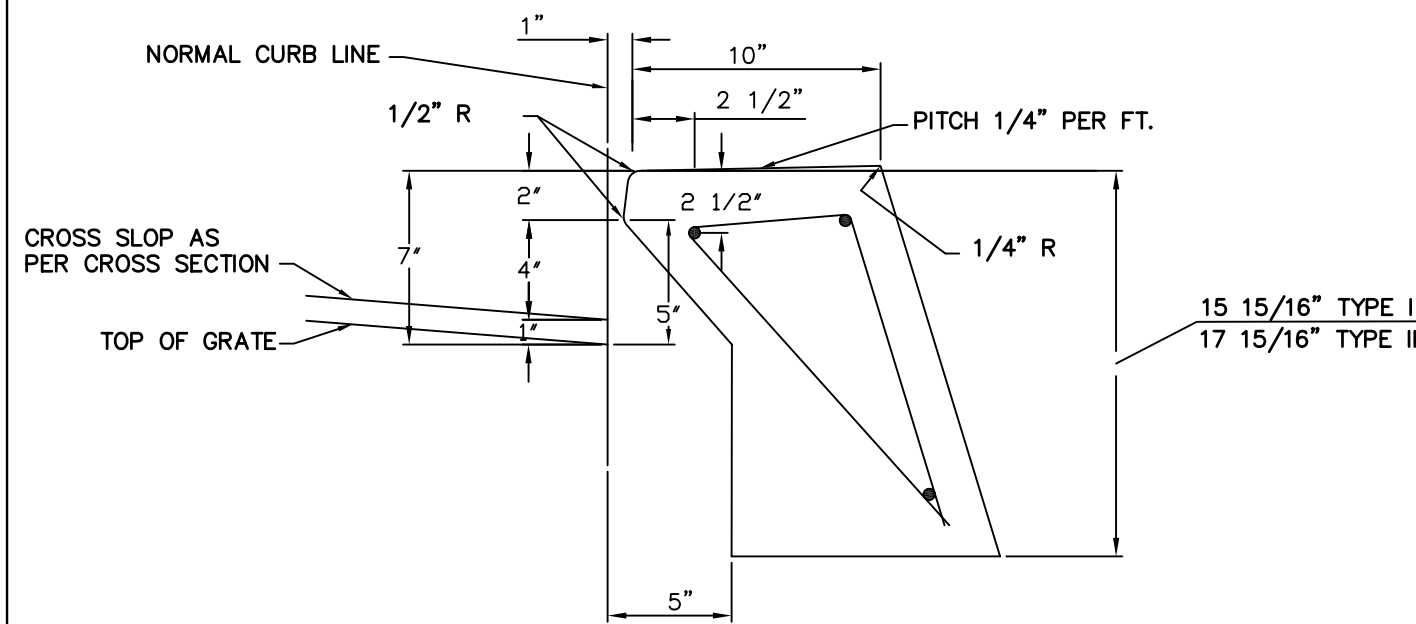
\* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

## RECOMMENDED MINIMUM SPACING

PIPE DIAM.	MIN. "X"	MIN. "S" +
12"	8"	12"
15"	8"	12"
18"	9"	12"
24"	10"	12"
30"	18"	15"
36"	18"	18"
42"	18"	21"
48"	18"	24"
54"	18"	27"
60"	18"	30"

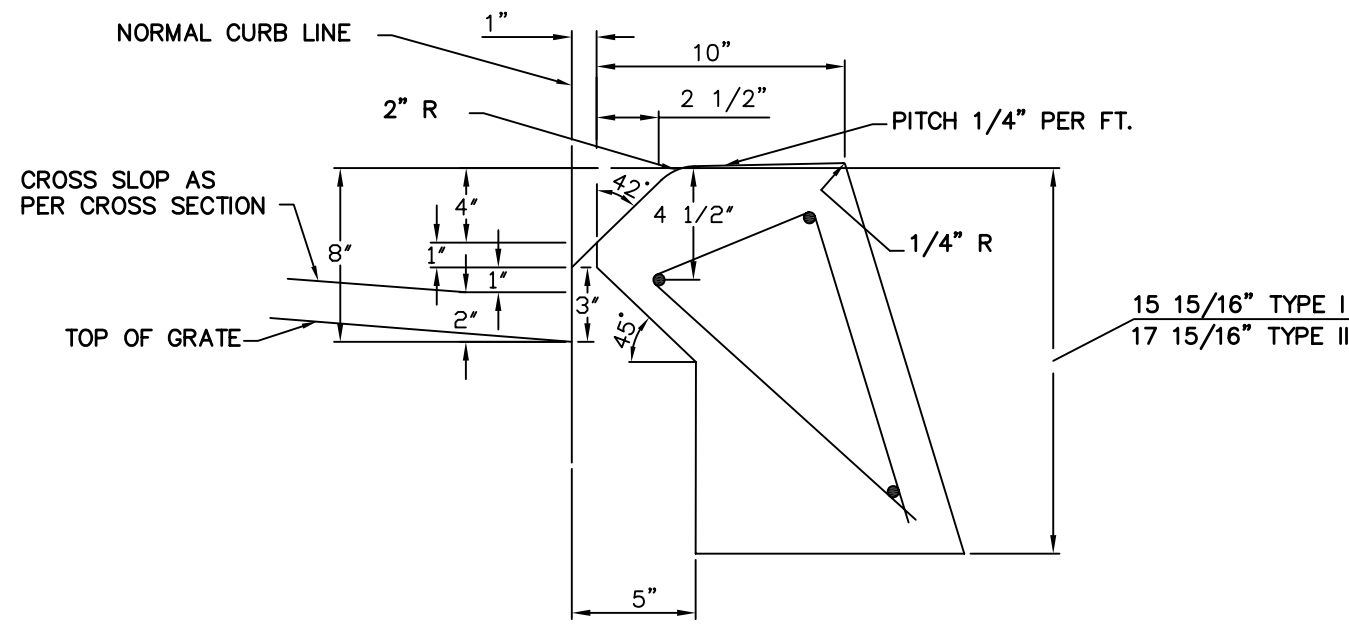
\*\* MAXIMUM SPACING ("X")  
 PIPE I.D. + 1'-0" FOR 30" OR LESS  
 PIPE I.D. + 1' - 6" FOR 30" OR GREATER

NO.	REVISIONS	BY	DATE	DES BY:	DATE:	SUBMITTED BY:	DATE:	 <div>TOWN OF WATERTOWN DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING</div> 	PROJECT TITLE: <div>TOWN OF WATERTOWN STANDARD DETAIL DRAWINGS</div>	DRAWING TITLE: <div>STANDARD ADS TRENCH DETAILS</div>	PROJECT NO.
				DRN BY:		APPROVED BY:	DATE:				FILE NO.
				CHK BY:	SCALE:						DRAWING NO. <div>153WTN-9A</div>
				APPD BY:		ENGINEER: _____					SHEET NO. <div>153WTN-9A</div>



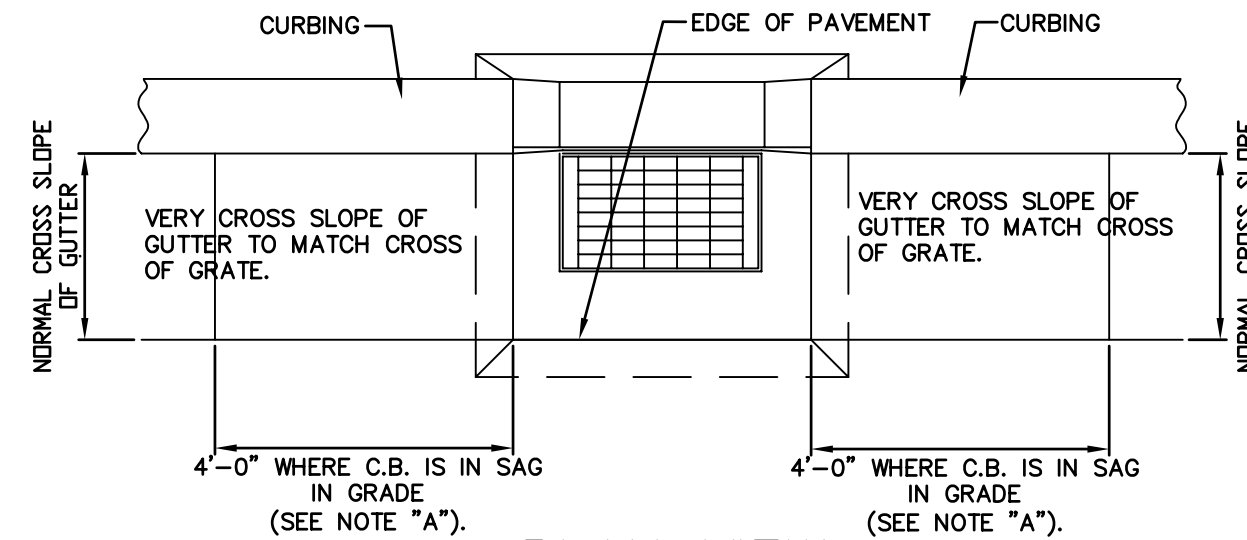
TO BE USED WHEN CURB INLET IS CONSTRUCTED IN A LINE OF PLAIN CONCRETE CURBING, DOWELED CONCRETE CURBING, OR STONE CURBING, 6\"/>

DETAIL OF CURB INLET  
PLAIN CURB TYPE

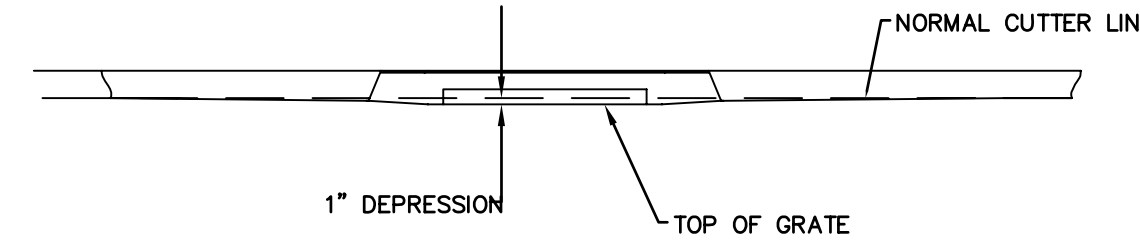
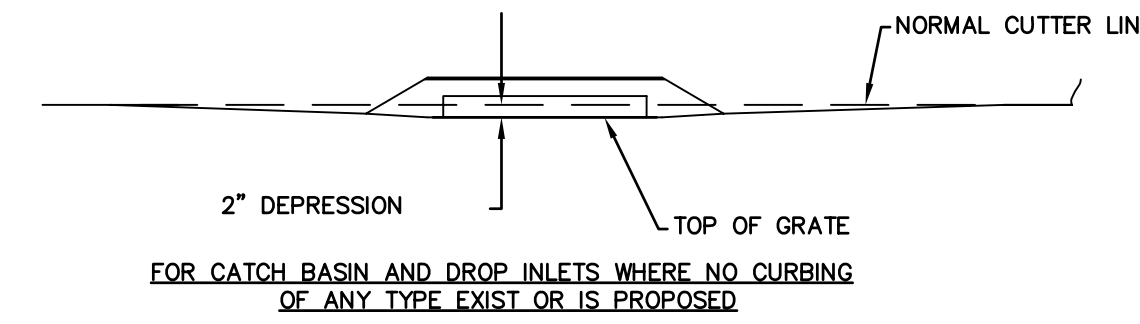


TO BE USED WHEN CURB INLET IS CONSTRUCTED IN A LINE OF BITUMINOUS CONCRETE LIP CURB, 6\"/>

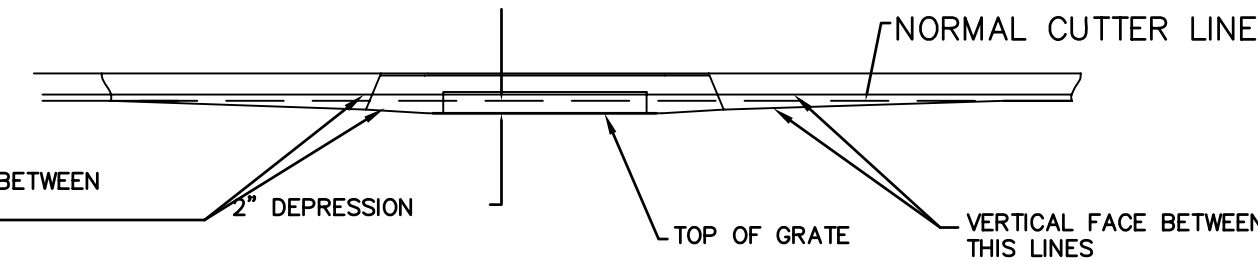
DETAIL OF CURB INLET  
PARK CURB TYPE



FOR CATCH BASIN AND DROP INLETS IN A LINE OF CONCRETE PARK CURBING OR DOWELED CONCRETE PARK CURBING 4\"/>

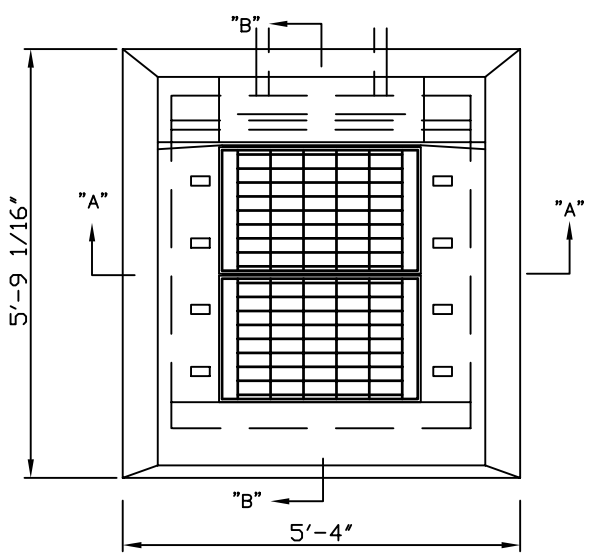


FOR CATCH BASIN AND DROP INLETS IN A LINE OF PLAIN CONCRETE CURBING DOWELED CONCRETE CURBING OR STONE CURBING 6\"/>

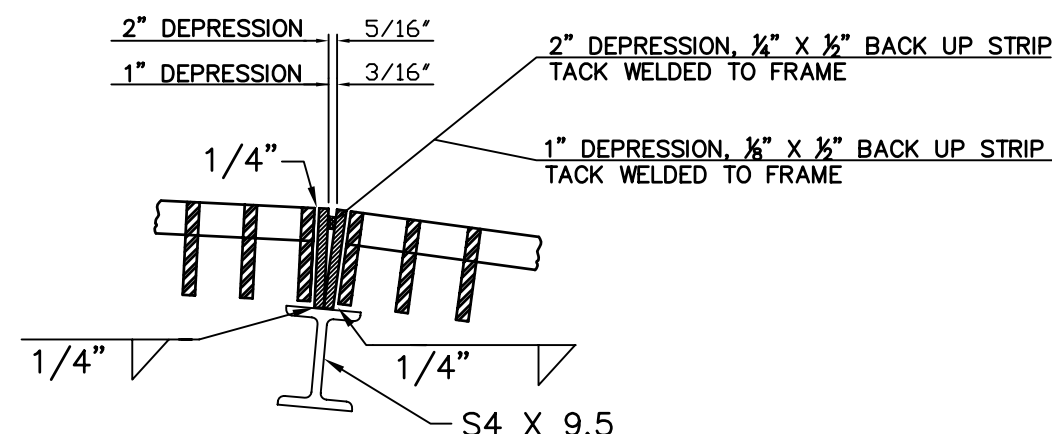


FOR CATCH BASIN AND DROP INLETS IN A LINE OF BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED) 6\"/>

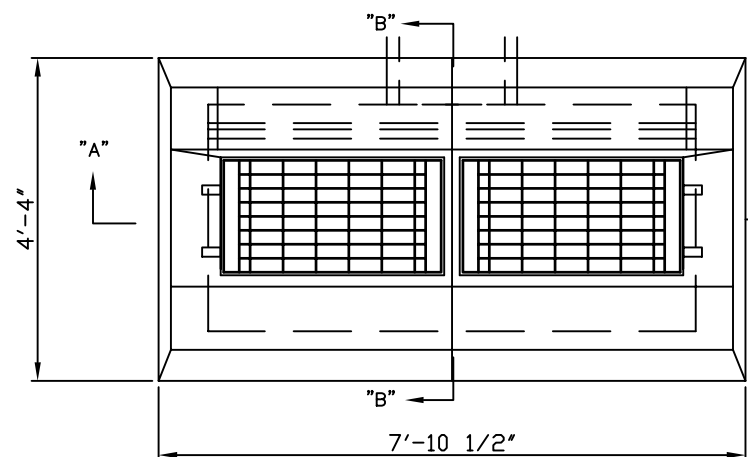
- NOTE:
1. WALLS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12\"/>
  2. DEEPER SUMPS MAY BE REQUIRED AT LOCATIONS SPECIFIED BY THE TOWN ENGINEER.
  3. WHEN CATCH BASIN IS SET IN CONCRETE PAVEMENT THE 1/2\"/>
- A. 6'-0\"/>



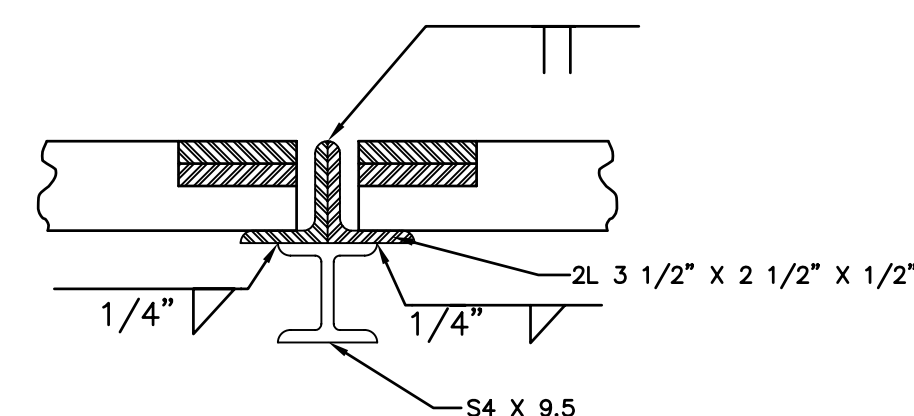
PLAN VIEW



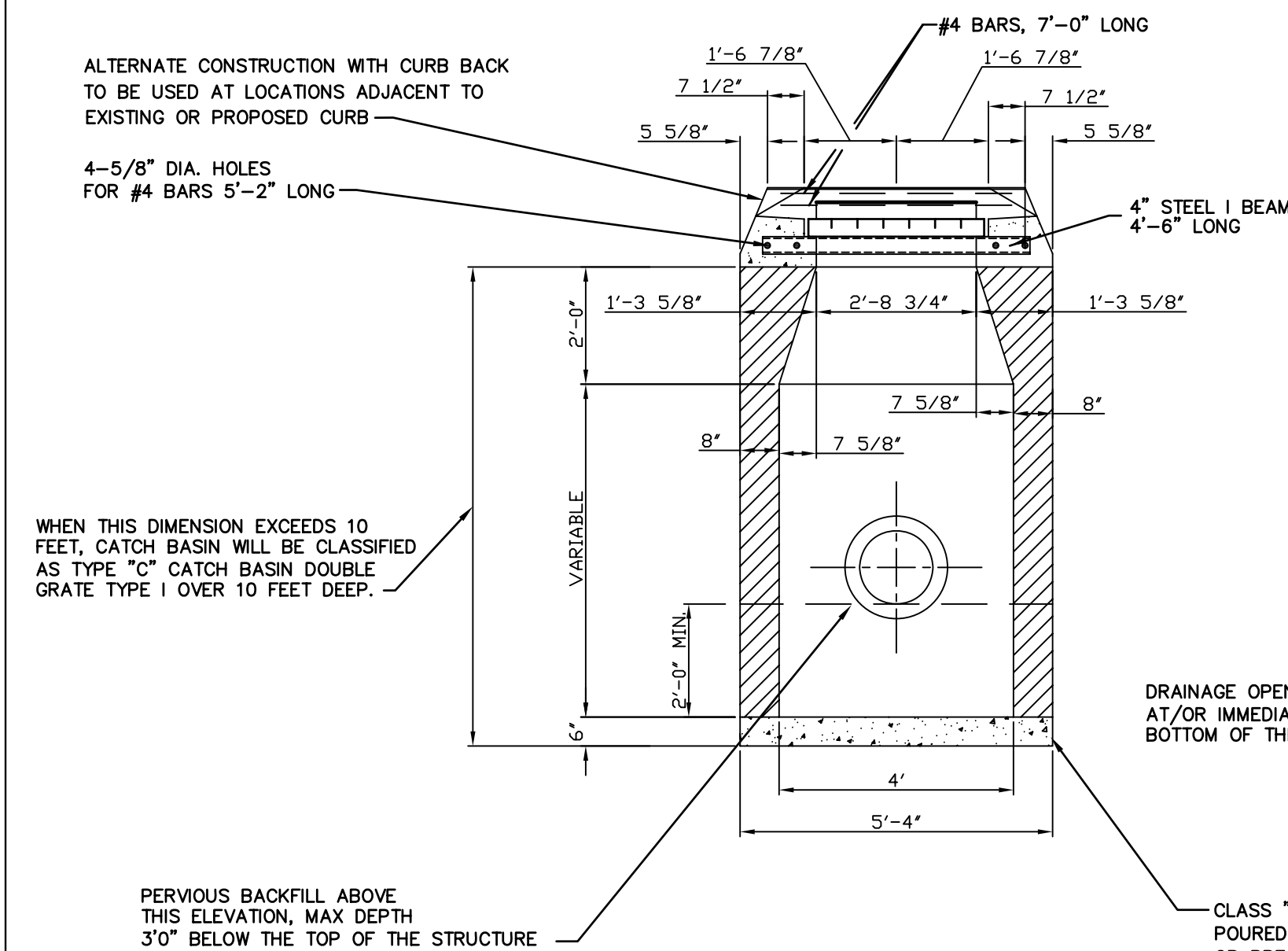
DETAIL "B"



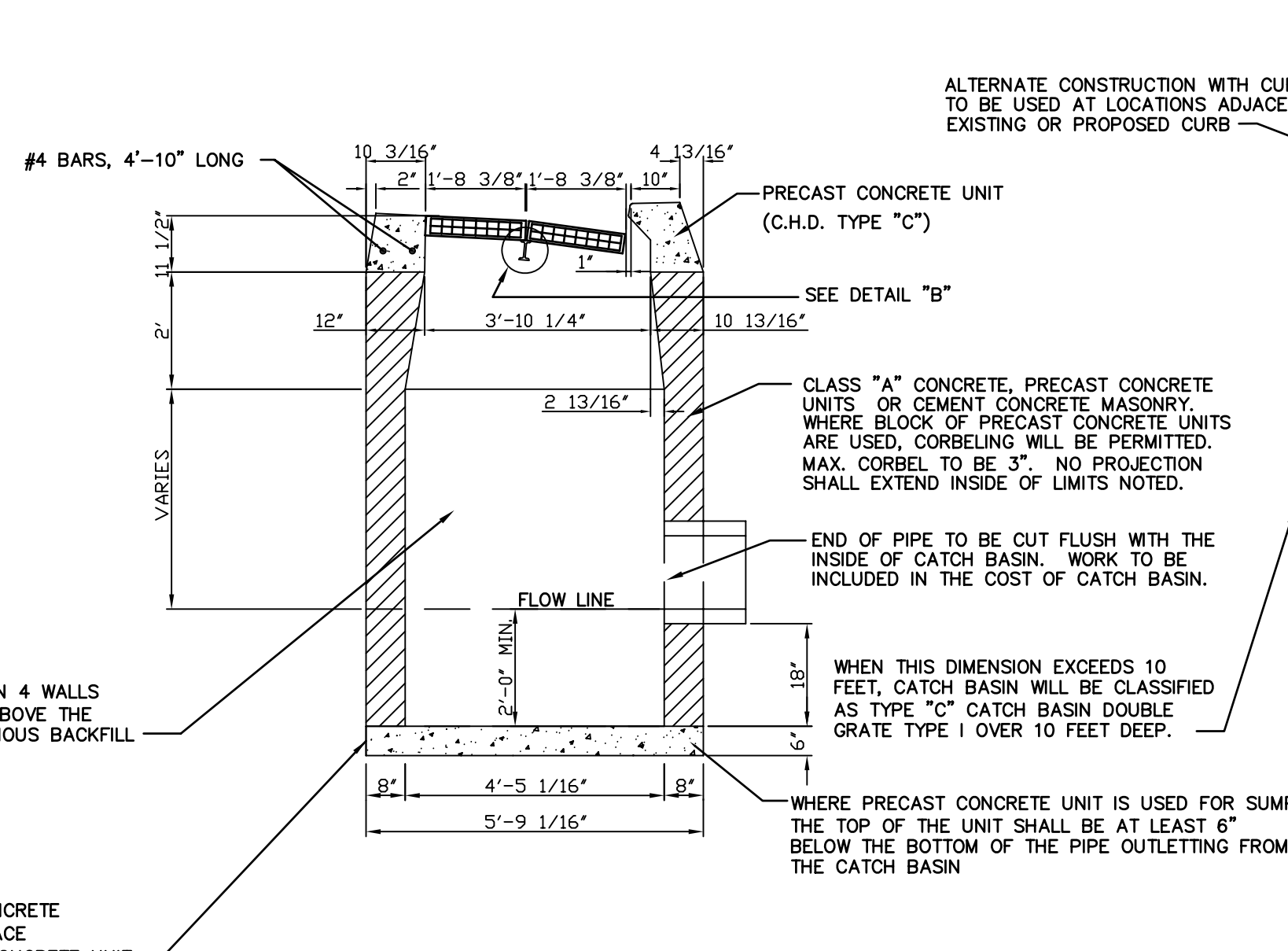
PLAN VIEW



DETAIL "A"

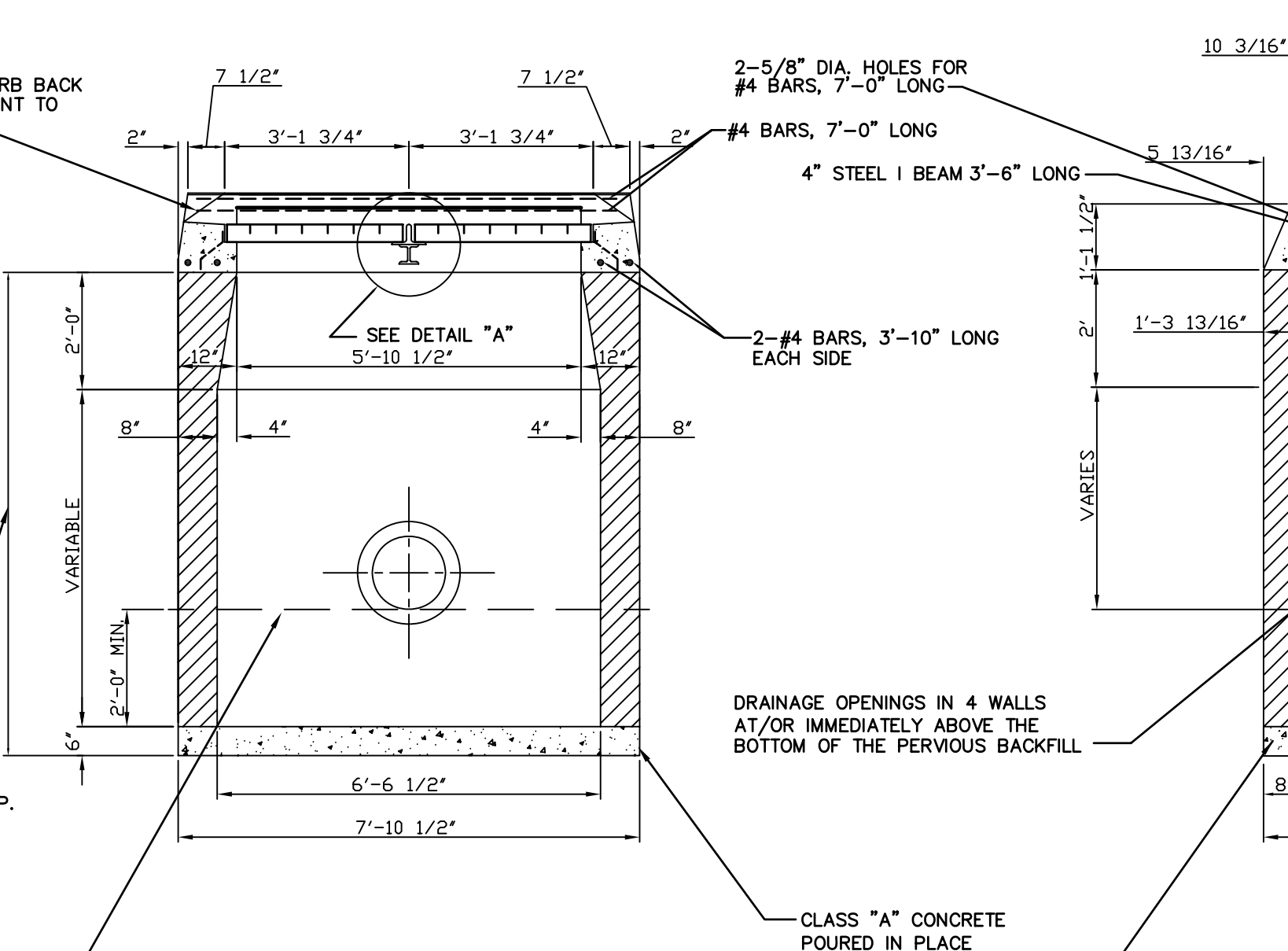


SECTION A-A

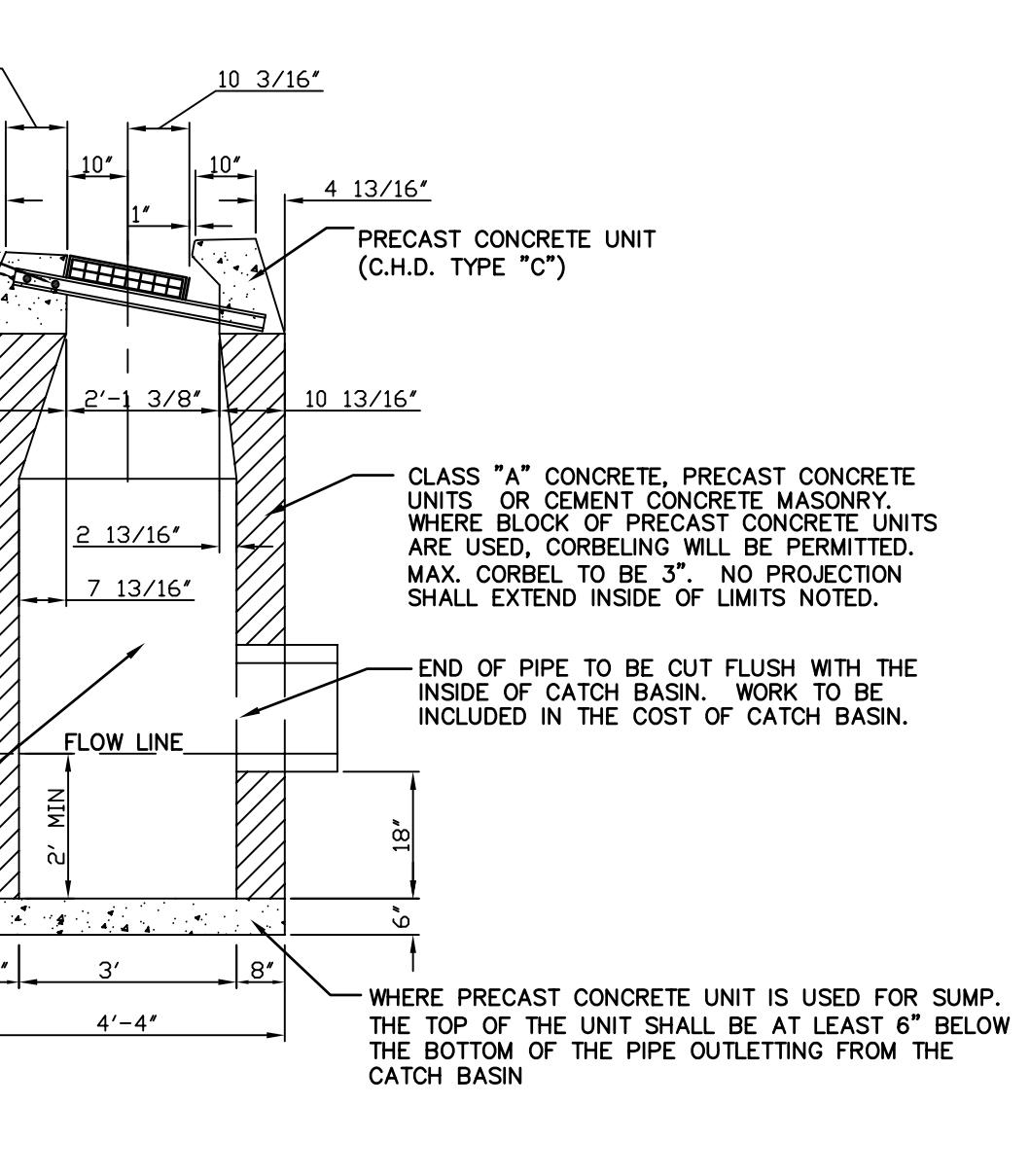


SECTION B-B

STANDARD DOUBLE TYPE I  
"C" 2' SUMP



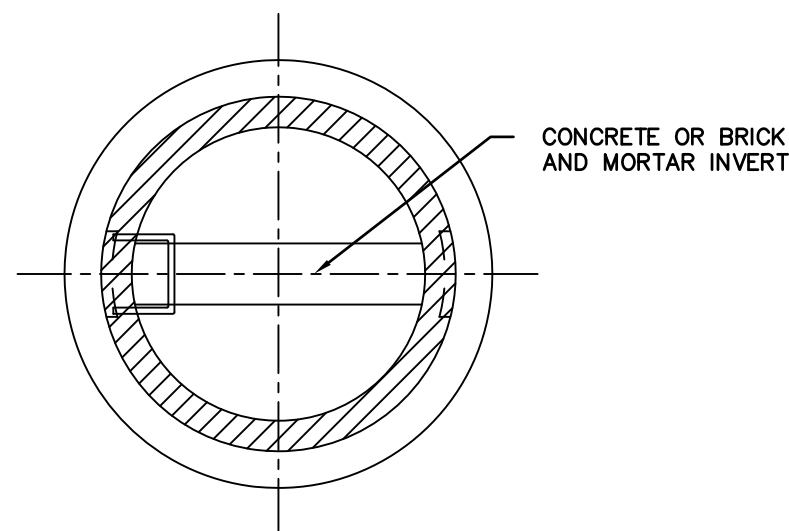
SECTION A-A



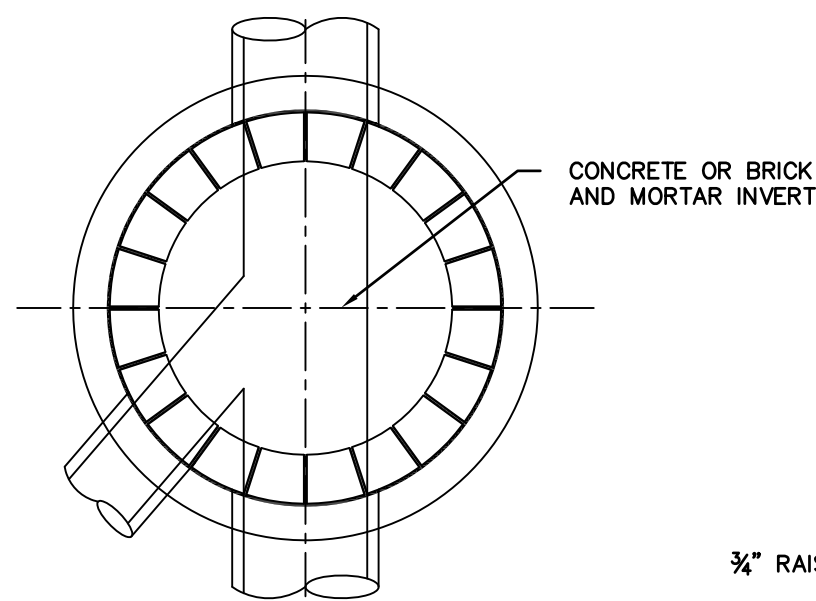
SECTION B-B

STANDARD DOUBLE TYPE II  
"C" 2' SUMP

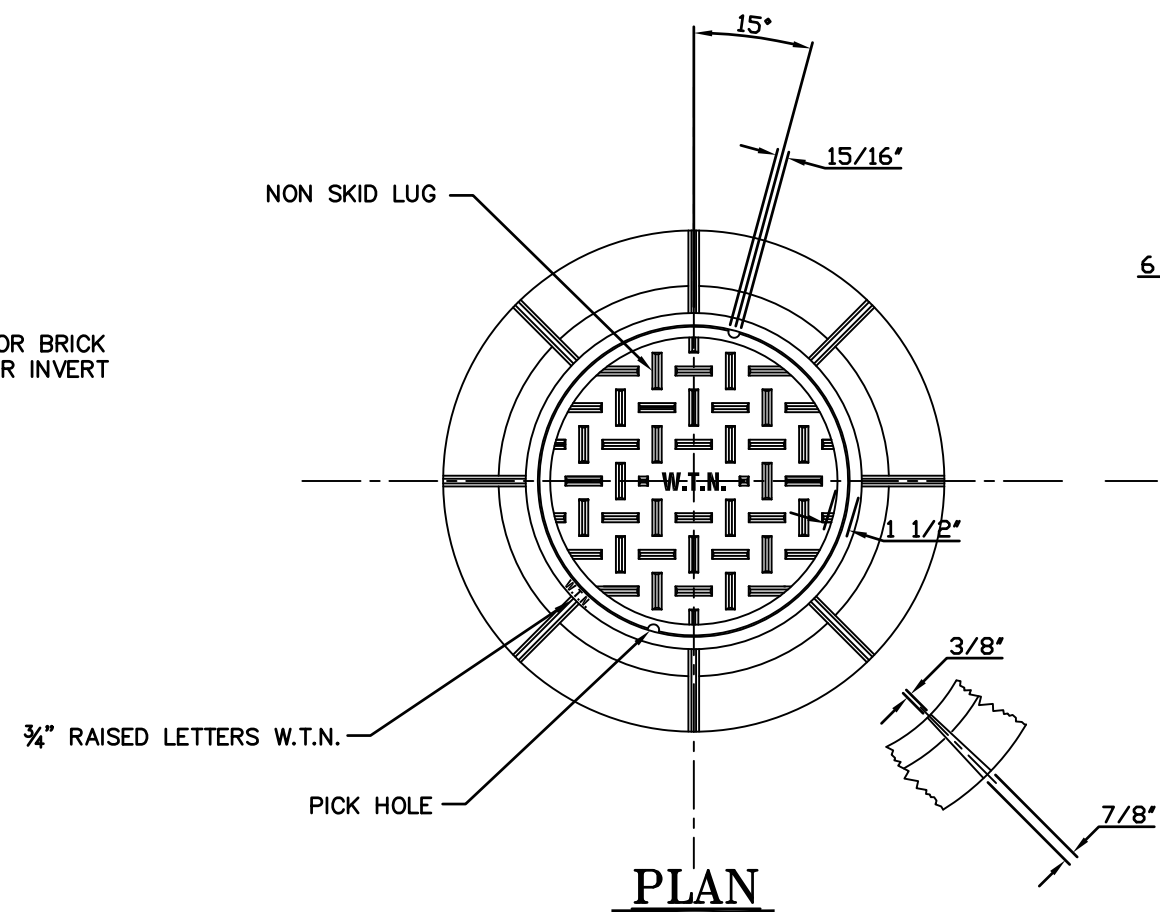
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						DRN BY:	J.M.M.	2-25-2009	FILE NO.								<>	
							CHK BY:	R.S.	SCALE:	N.A.	SUBMITTED BY:	DATE:			TOWN OF WATERTOWN STANDARD DRAWINGS	TYPE "C" CATCH BASIN DOUBLE GRATE TUPE I AND II	DRAWING NO.	153WTN-3B
							APPD BY:	R.C.			APPROVED BY:	DATE:					SHEET NO.	153WTN-3B



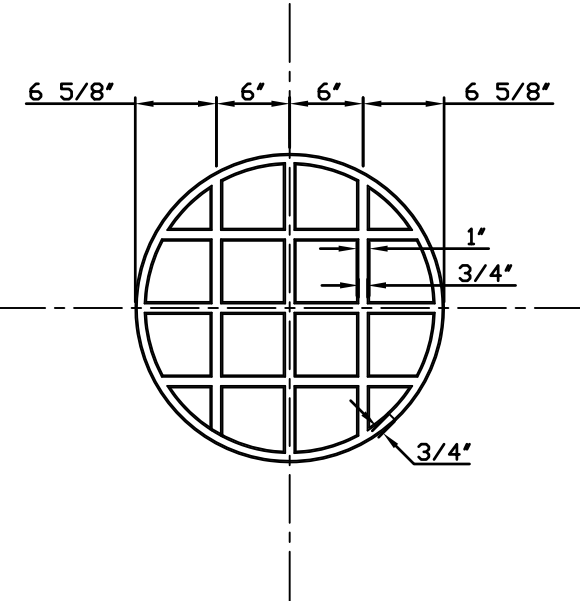
SECTION A-A



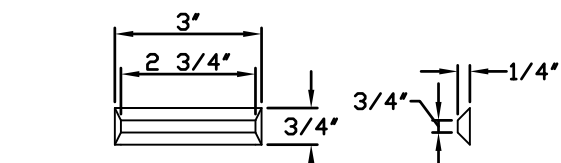
SECTION B-B



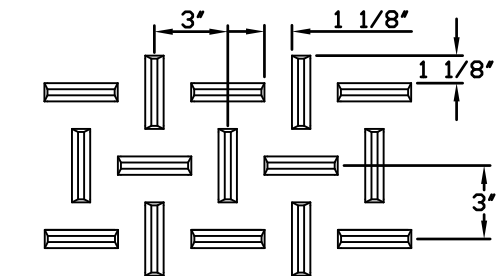
PLAN



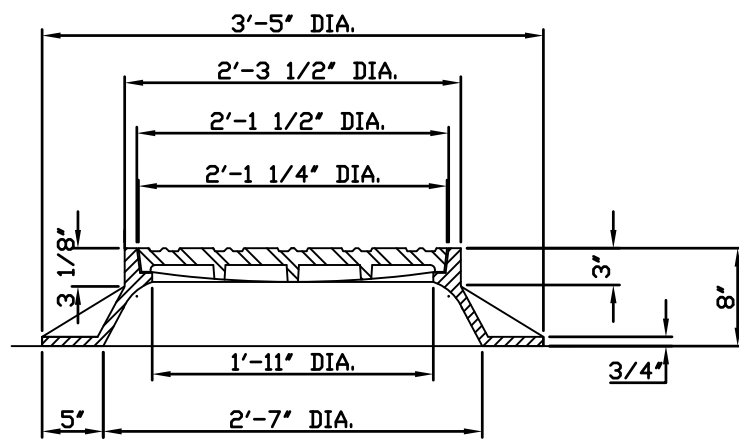
UNDERSIDE OF COVER DETAIL



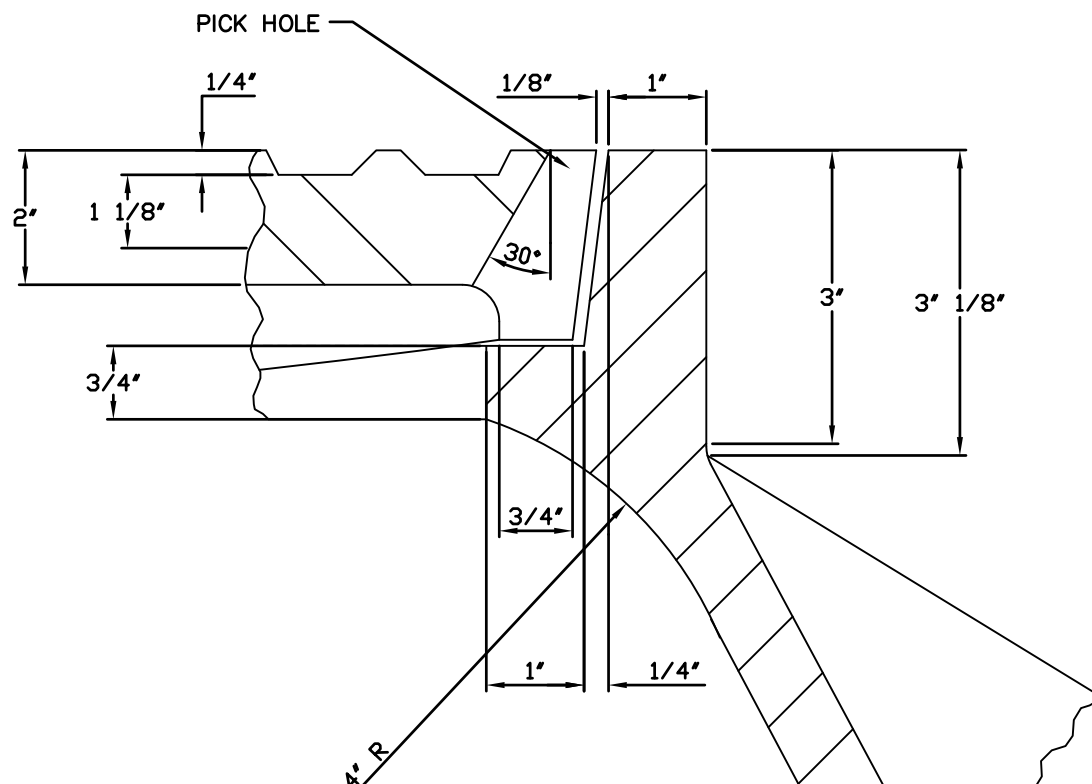
NON SKID LUG DETAIL



NON SKID LUG SPACING DETAIL

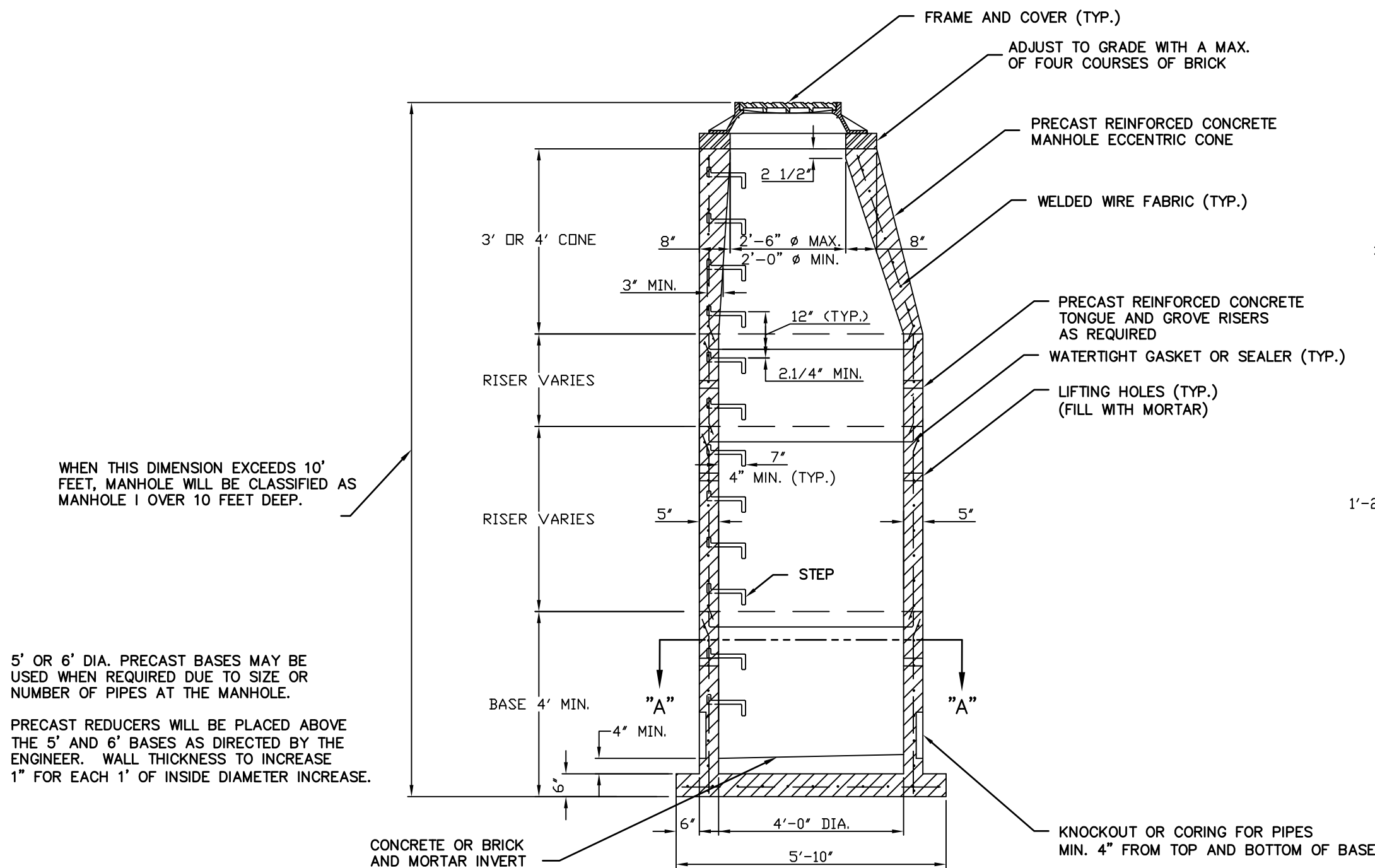


SECTION "C-C"



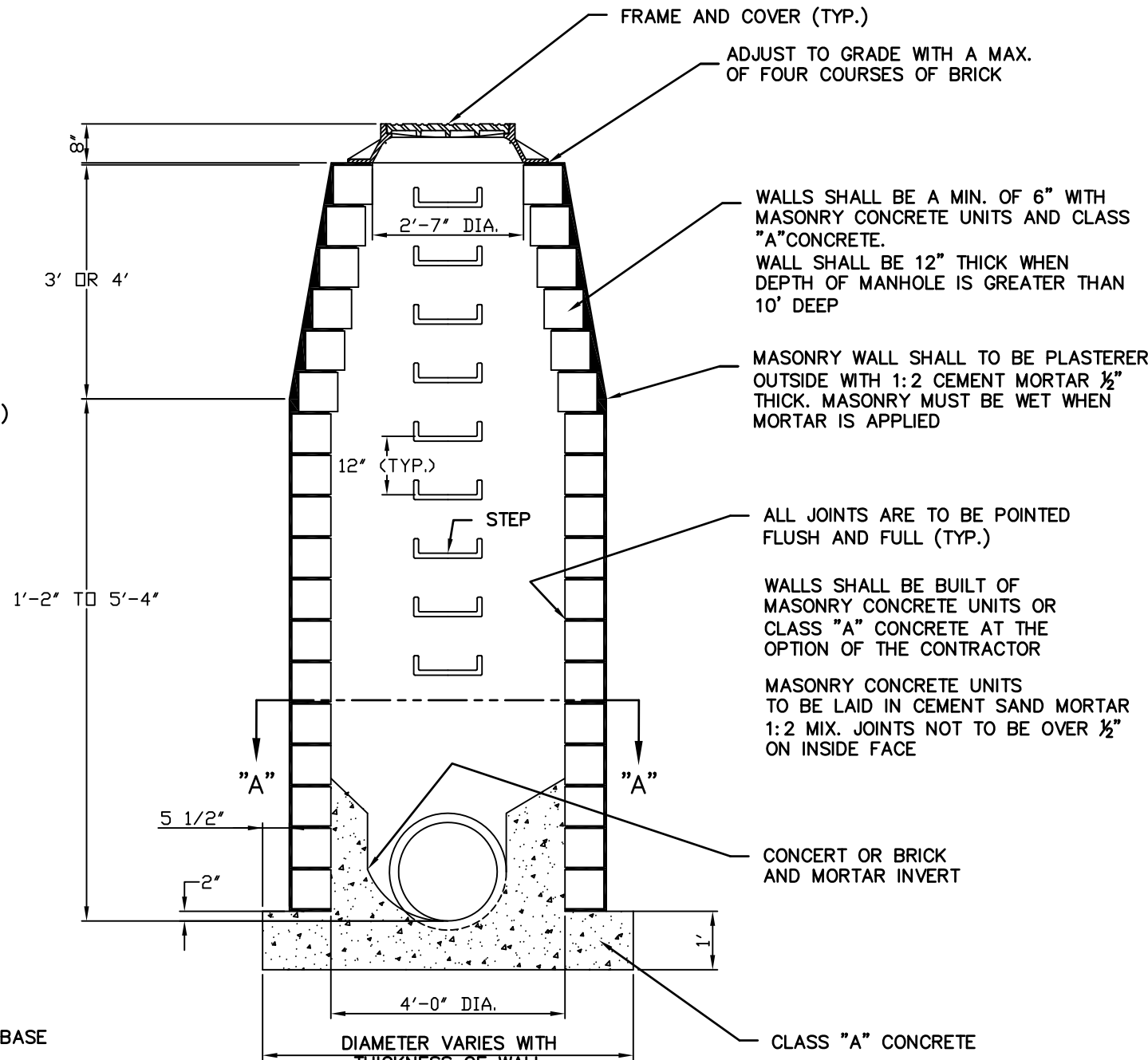
DETAIL OF SEAT

COVER DETAIL



STANDARD TYPE  
PRECAST MANHOLE

NOT TO SCALE



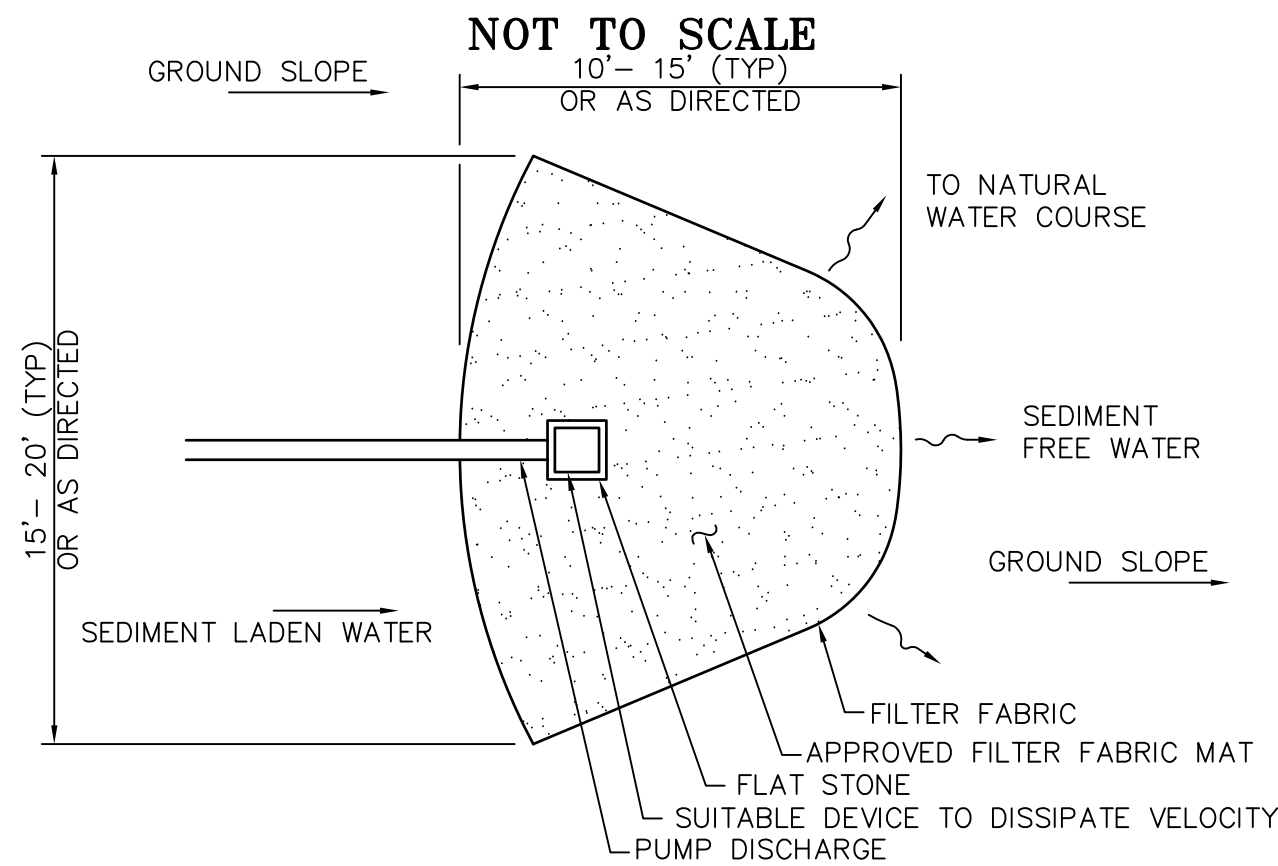
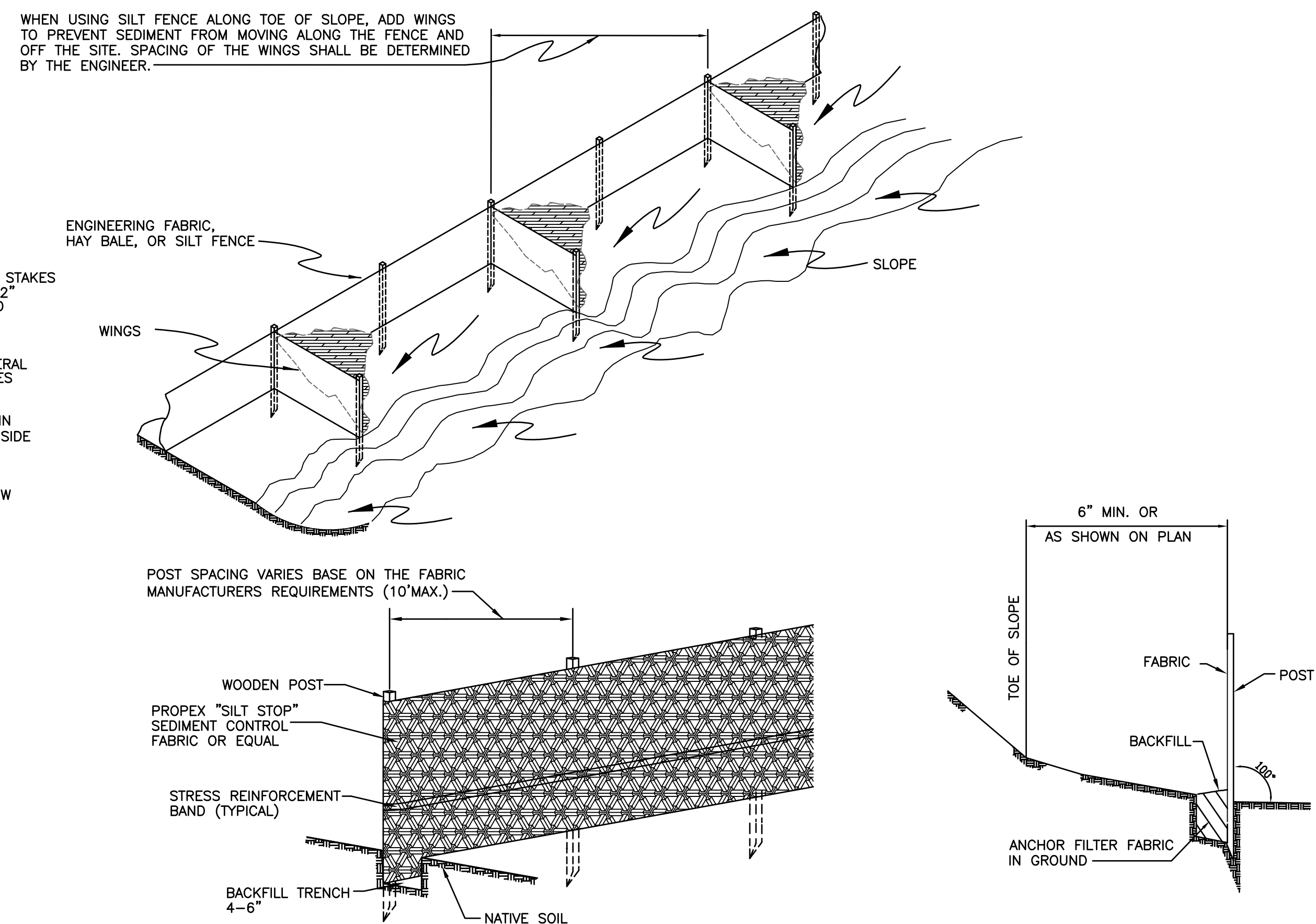
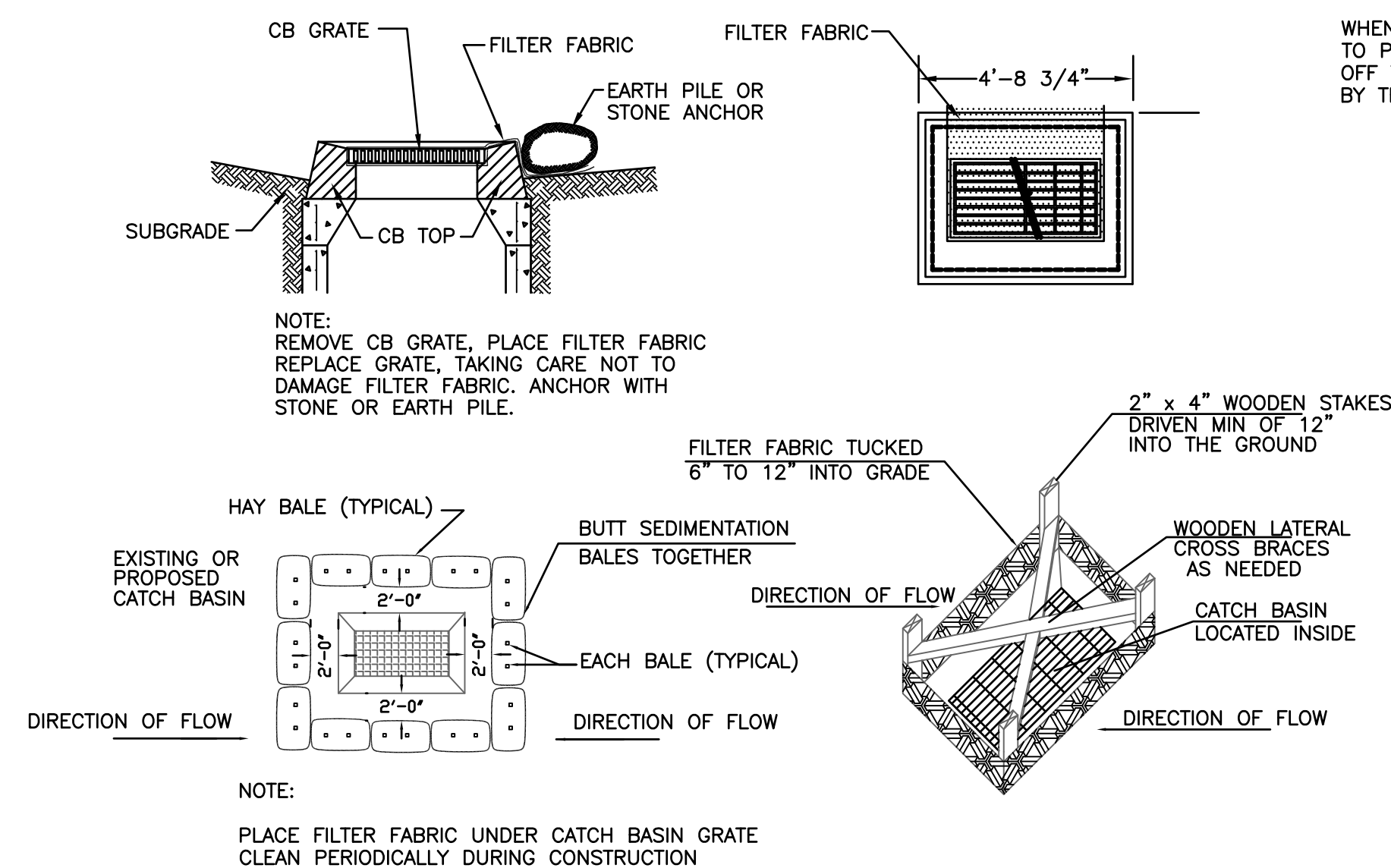
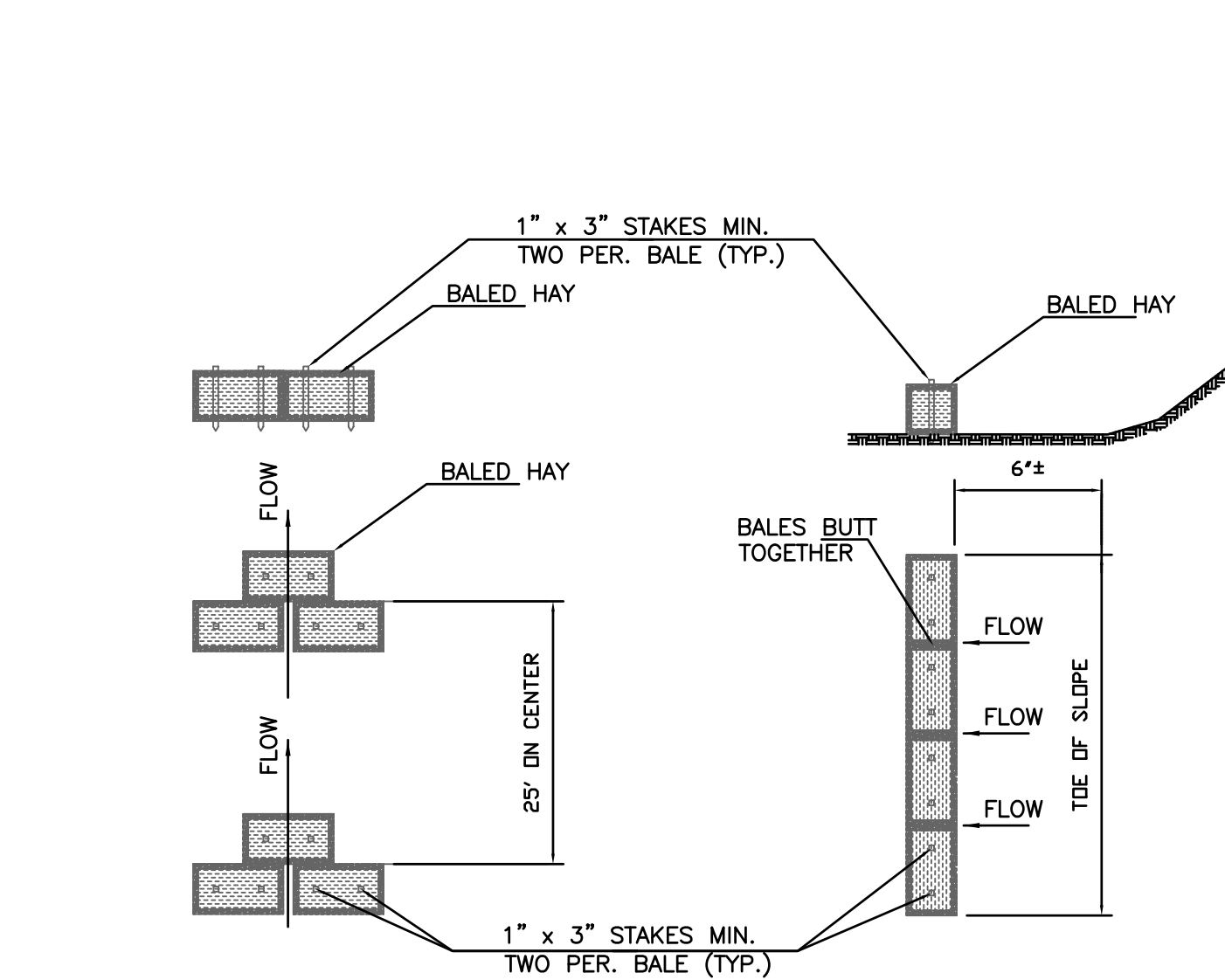
STANDARD TYPE  
MASONRY CONCRETE UNITS  
OR CLASS "A" CONCRETE

NOT TO SCALE

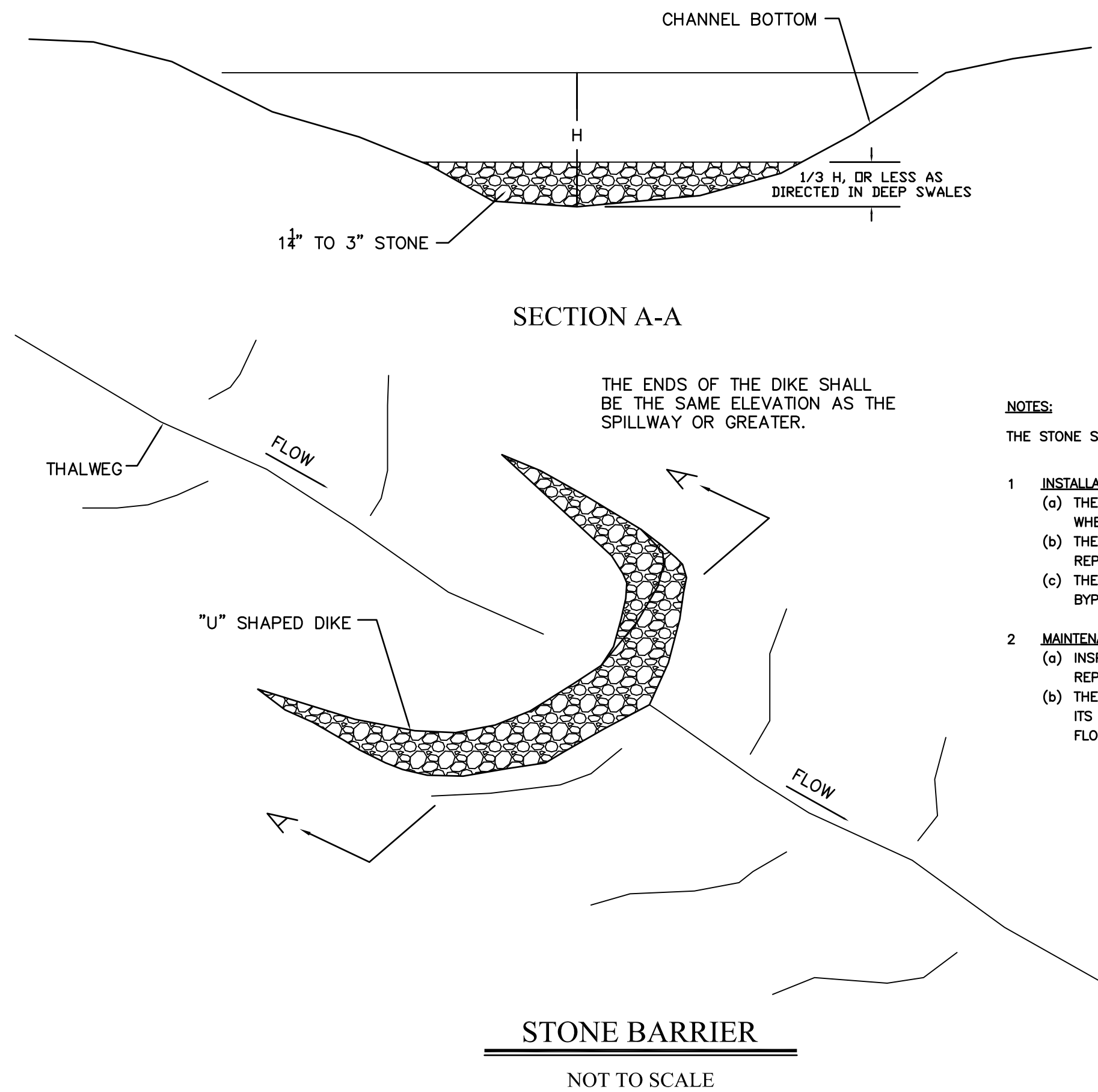
- NOTE:
1. WALLS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK
  2. DEEPER SUMPS MAY BE REQUIRED AT LOCATIONS SPECIFIED BY THE TOWN ENGINEER.
  3. WHEN CATCH BASIN IS SET IN CONCRETE PAVEMENT THE 1/2" SLOPE ON THE TOP SURFACE SHALL BE CHANGED TO ADJOINING PAVEMENT.
- A. 6'-0" ON UPGRADE SIDE OF CONTINUOUS GRADE, 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE TOWN ENGINEER

NO.	REVISIONS			BY	DATE	DES BY:	J.M.M.	DATE:	3-9-2009			TOWN OF WATERTOWN DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		PROJECT TITLE:  TOWN OF WATERTOWN STANDARD DETAIL DRAWINGS	DRAWING TITLE:  MANHOLE, FRAME & COVER	PROJECT NO.	<>
					DRN BY:	J.M.M.	SCALE:	N.A.	SUBMITTED BY:	DATE:						FILE NO.	<>
					CHK BY:	R.S.			DRAWING NO.	153WTN-5A							
					APPD BY:	R.C.			SHEET NO.	153WTN-5A							

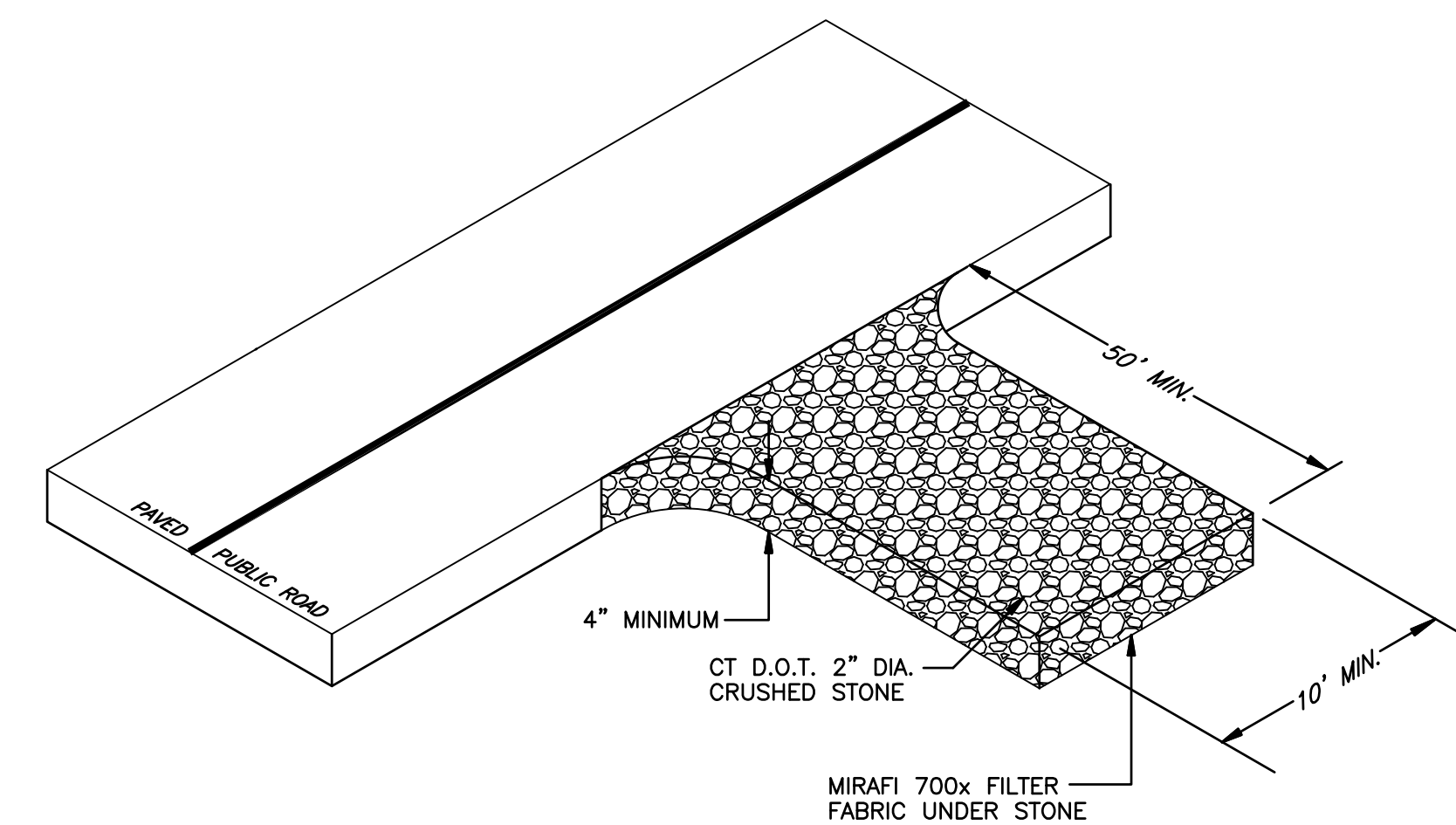




**PUMP DISCHARGE SEDIMENT TRAP**  
NOT TO SCALE



- NOTES:**  
THE STONE SHALL MEET ASTM C-33 SIZE NO. 2 OR 3 (3" OR 2 1/2")
- 1. INSTALLATION REQUIREMENTS**
    - (a) THE CONTRACTOR SHALL CONSTRUCT STONE BARRIER WHERE DIRECTED BY THE ENGINEER
    - (b) THE STONE SHALL BE PILED TO A NATURAL ANGLE OF REPOSE WITH A HEIGHT OF AT LEAST TWO FEET.
    - (c) THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT BYPASS THE BARRIER AROUND THE ENDS
  - 2. MAINTENANCE**
    - (a) INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
    - (b) THE BARRIER SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



NO.				REVISIONS		BY	DATE	DES BY:	J.M.M.	DATE:	3-2-2009			TOWN OF WATERTOWN DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING		PROJECT TITLE:  TOWN OF WATERTOWN STANDARD DRAWINGS	DRAWING TITLE:  SEDIMENTATION AND EROSION CONTROL DETAILS	PROJECT NO.	<>	
								DRN BY:	J.M.M.			FILE NO.						<>		
								CHK BY:	R.S.	SCALE:	N.A.	SUBMITTED BY:						DATE:	DRAWING NO.	153WTN-4A
								APPD BY:	R.C.			APPROVED BY:						DATE:	SHEET NO.	153WTN-4A



