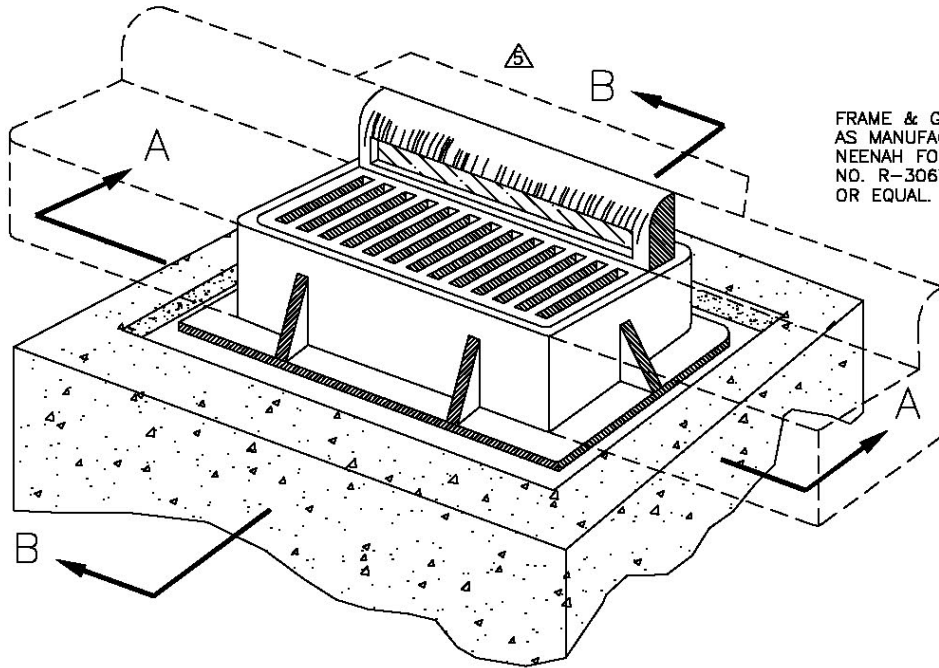


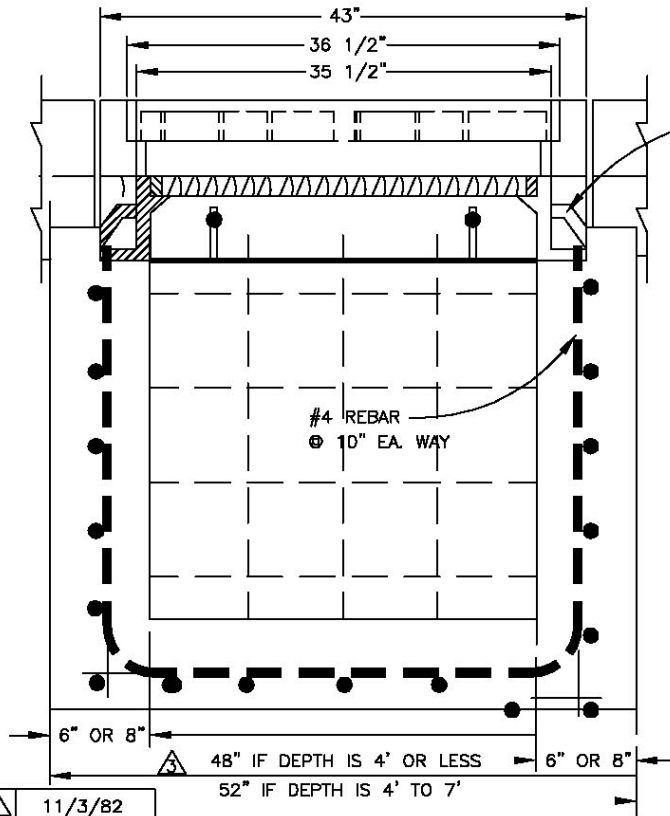
## Storm Drainage

Curb Inlet Single.....	D-503
Curb Inlet Double .....	D-504
Curb Inlet Single for Standard Manhole .....	D-505
Surface Inlet .....	D-506
Behind the Curb Catch Basin and Curb Inlet.....	D-507
Slotted Curb Drain.....	D-508
Drain Line Connection to Existing Drop Inlet.....	D-509
Transverse Drainage Structure .....	D-510
Scuppers .....	D-511
Wire Enclosed Rip Rap Detail .....	D-512 (1-4)
Typical Concrete Drainage Channel.....	D-513
Trash Rack.....	D-514

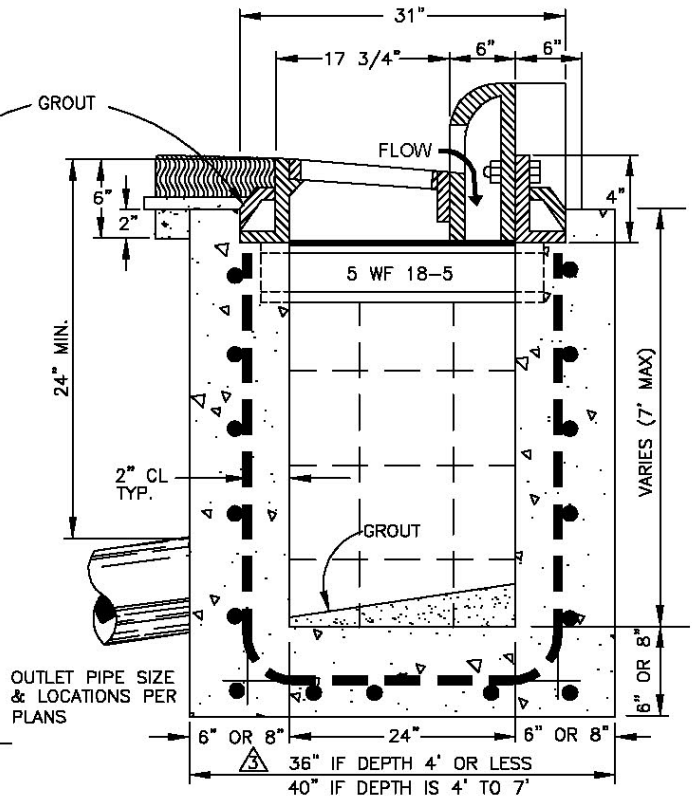
NOTE: ALL CURB INLETS SHALL BE DEPRESSED A MINIMUM OF 1 1/2".



FRAME & GRATE  
AS MANUFACTURED BY  
NEENAH FOUNDRY  
NO. R-3067-V  
OR EQUAL.



SECTION A-A



SECTION B-B

- 11/3/82
- 11/16/83
- 11/6/87
- 01/07/04
- 12/16/04

CONCRETE SHALL BE 3000 PSI 28 DAY STRENGTH.

CONSTRUCTION  
STANDARDS

CURB INLET  
SINGLE

CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT

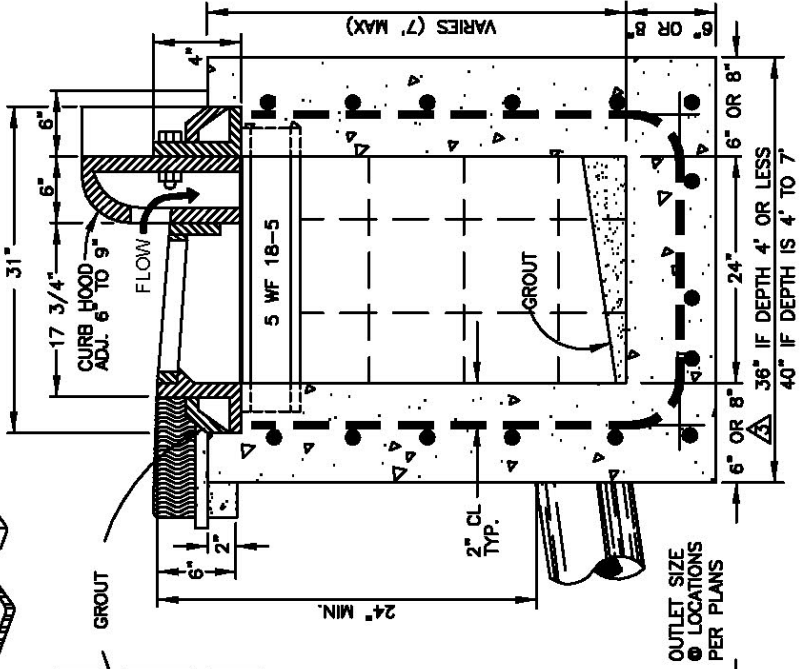
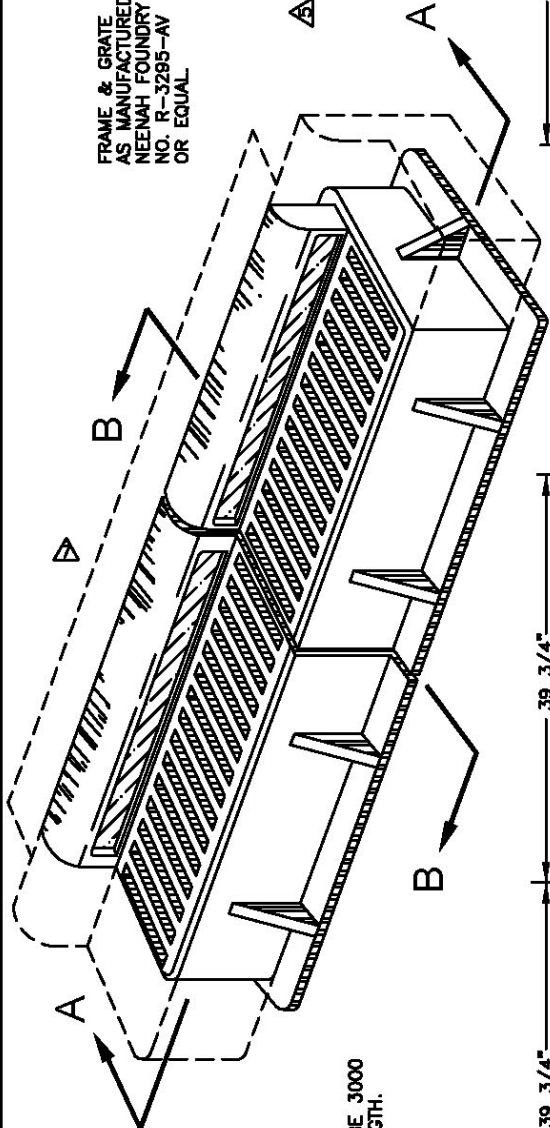
STANDARD No. D-503 SHEET 1 OF 1

REV.	DATE
△	11/3/82
△	11/22/83
△	11/6/87
△	12/8/89
△	11/6/90
△	01/07/04
△	12/16/04

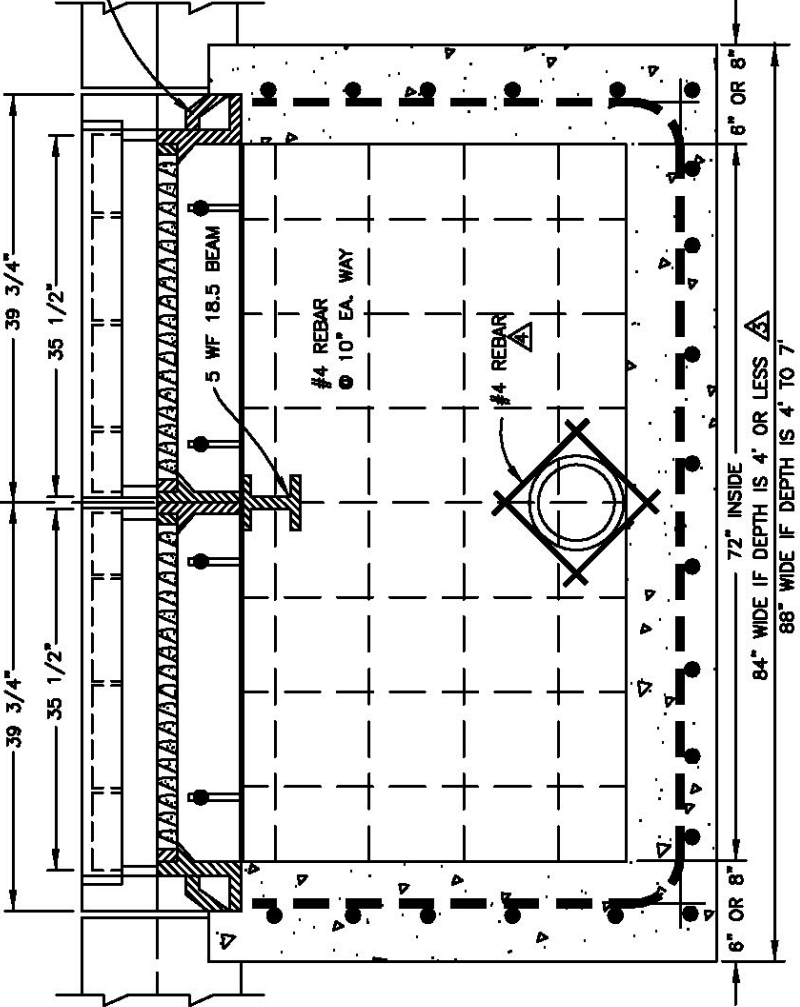
△ CONCRETE SHALL BE 3000 PSI 28 DAY STRENGTH.

FRAME & GRATE AS MANUFACTURED BY NEEENAH FOUNDRY NO. R-3295-AV OR EQUAL

△ FOR TRIPLE INLET USE NEEENAH R-3295-BV OR EQUAL



SECTION B-B



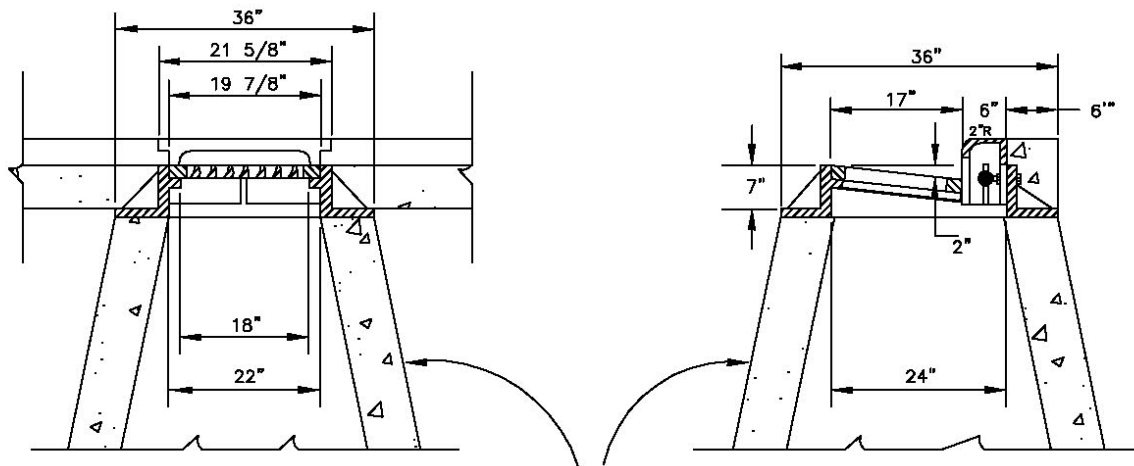
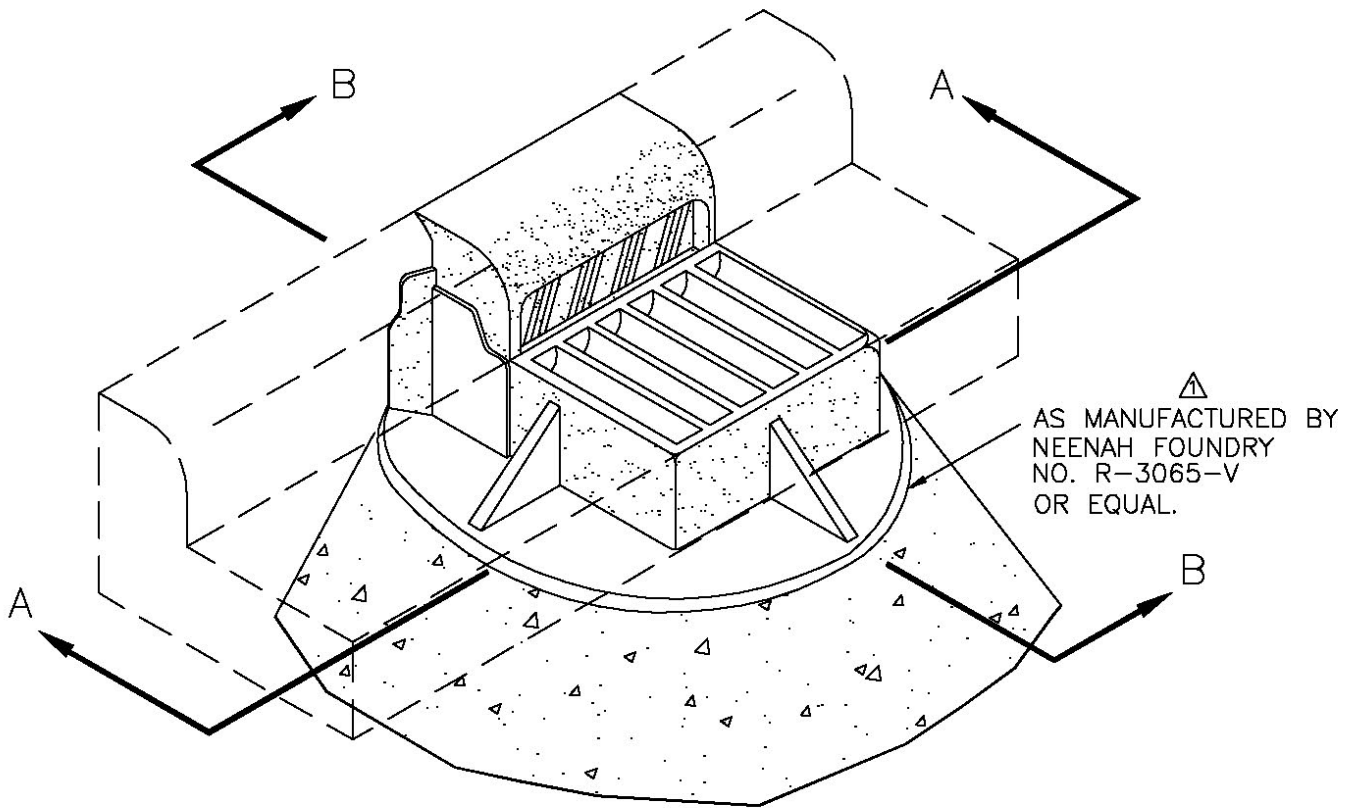
SECTION A-A

CONSTRUCTION STANDARDS

CURB INLET DOUBLE

STANDARD No. D-504 SHEET 1 OF 1

CITY OF AZTEC  
PUBLIC WORKS DEPARTMENT



STANDARD PRECAST M.H. CONCRETE CONE

SECTION A-A

SECTION B-B

REV.	DATE
△	12/16/04

CONSTRUCTION  
STANDARDS

CURB INLET SINGLE  
FOR STANDARD MH.

STANDARD No. D-505 SHEET 1 OF 1

CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT

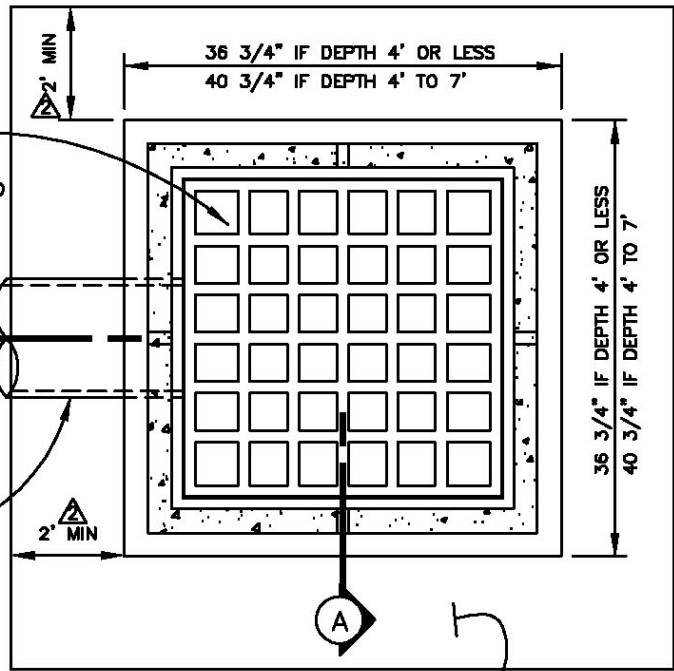
**NOTES**

- 1) CONCRETE TO BE 6 SACK, 3,000 PSI 28 DAY STRENGTH
- 2) SEE PAVEMENT PATCHING STD. No. 308, 310, & 311
- 3) WALLS & FLOOR TO BE 6" THICK IF BOX IS 4' DEEP OR LESS, 8" THICK IF INLET BOX IS 4'-0" TO 7'-0" DEEP
- △4) PIPE OUTLET 18" DIA. MIN.
- △5) CULVERTS UNDER PUBLIC STREETS SHALL BE RCP OR OTHER NON-FERRIS PIPE WITH CITY ENGINEERS APPROVAL.
- △6) IF CONSTRUCTED IN SOIL SURROUND WITH 2' OF ROCK 6" MINUS.

△ NEENAH FOUNDRY R-3405, R 3588-L, LUVRED GRATE & FRAME OR APPROVED EQUAL.

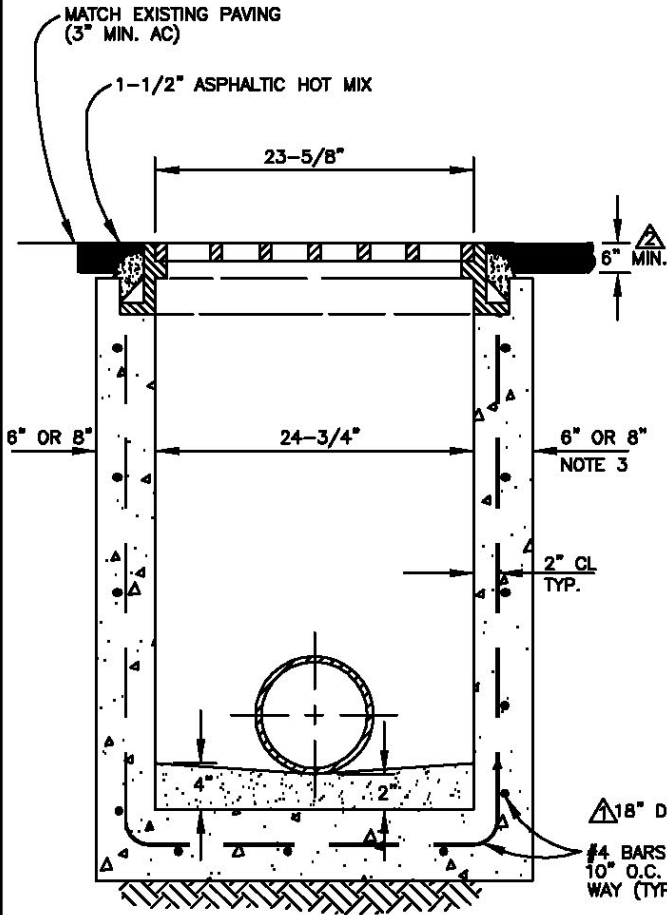
△ B

OUTLET PIPE SIZE & LOCATION PER PLANS (18" DIA. MIN.)

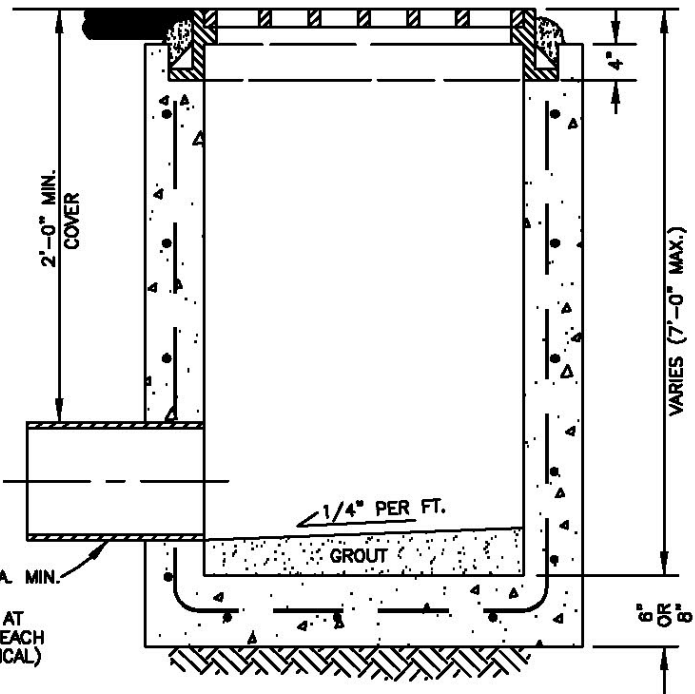


**PLAN VIEW**

△ CONCRETE APRON



**SECTION A-A**



**SECTION B-B**

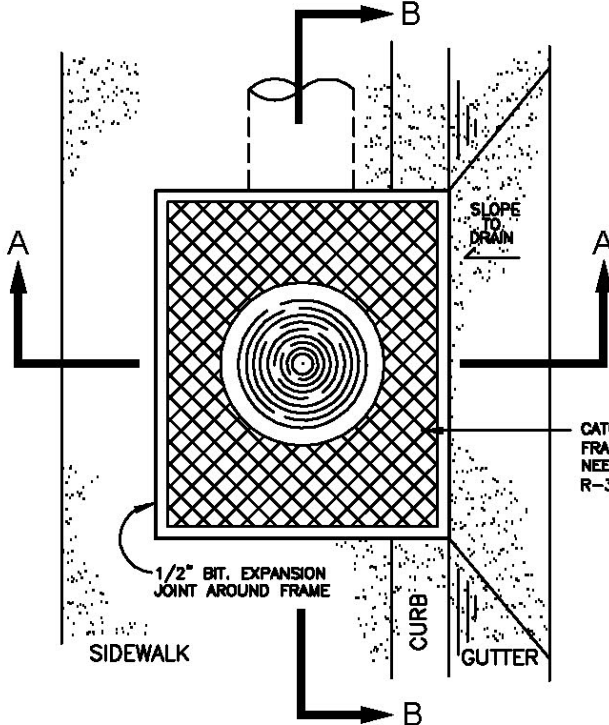
REV.	DATE
△	3/1/96
△	01/07/04
△	12/16/04

**CONSTRUCTION STANDARDS**

**SURFACE INLET**

STANDARD No. D-506 SHEET 1 OF 1

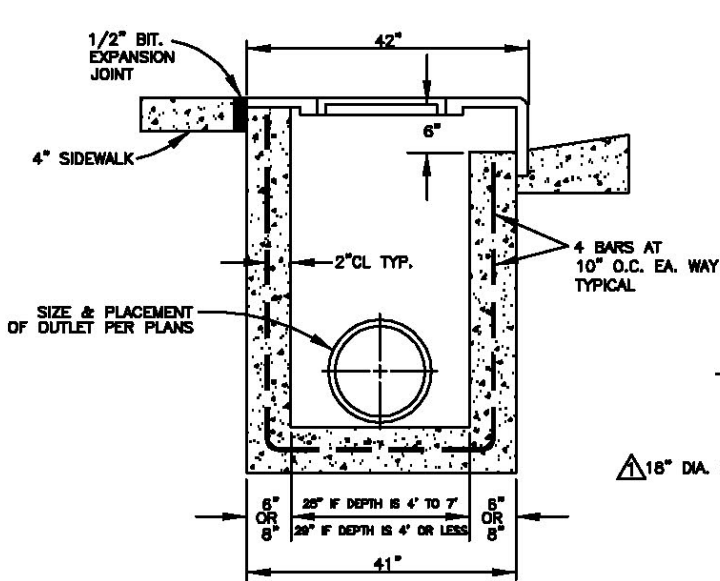
**CITY OF AZTEC**  
**PUBLIC WORKS DEPARTMENT**



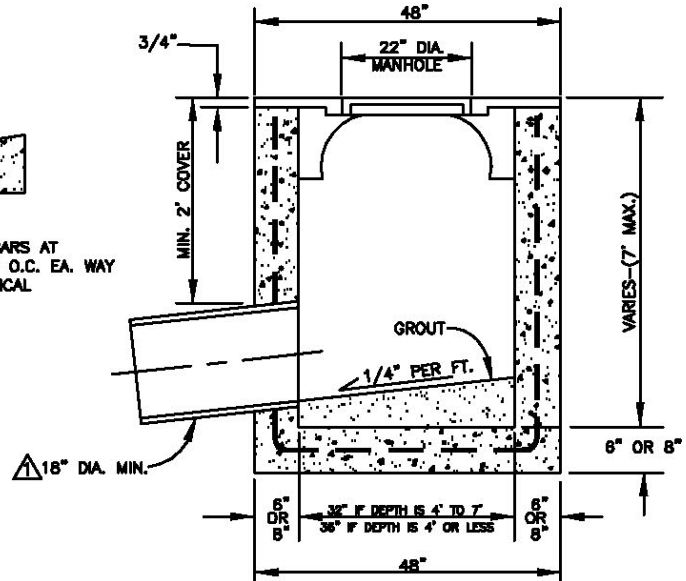
**GENERAL NOTES**

- △1) CONCRETE TO BE 3,000 PSI 28 DAY STRENGTH.
- 2) WALLS & FLOOR TO BE 6" THICK IF BOX IS 4' DEEP OR LESS, 8" THICK IF BOX IS 4' TO 7' DEEP.
- △3) PIPE OUTLET 18" DIA. MIN.
- △4) CULVERTS UNDER PUBLIC STREETS SHALL BE RCP OR OTHER NON-FERRIS PIPE WITH CITY ENGINEERS APPROVAL.

CATCH BASIN FRAME & LID  
NEENAH R-3313 OR △  
R-3317 OR CITY APPROVED EQUAL



**SECTION A-A**



**SECTION B-B**

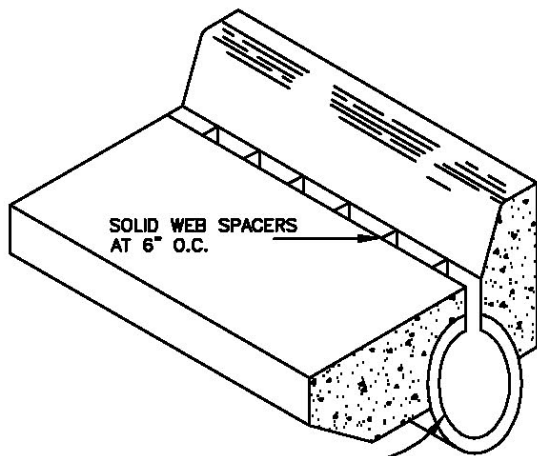
REV.	DATE
△	3/1/96
△	01/07/04
△	11/30/05

**CONSTRUCTION STANDARDS**

**BEHIND-THE-CURB CATCH BASIN AND CURB INLET**

STANDARD No. D-507 SHEET 1 OF 1

**CITY OF AZTEC**  
**PUBLIC WORKS DEPARTMENT**

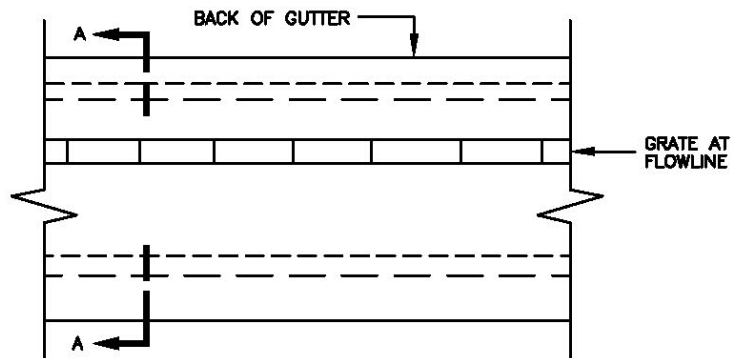


SLOT DRAIN AS MFD. BY  
ARMCO OR APPROVED EQUAL

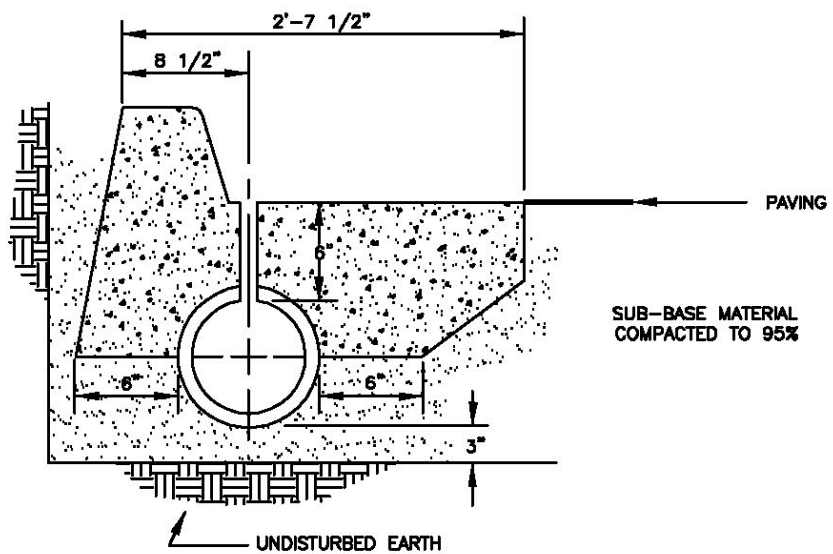
ISOMETRIC

GENERAL NOTES

1. ALL FITTINGS TO BE COMPATIBLE WITH C.M.P.
2. SPECIAL END CAPS AS MANUFACTURED EQUAL, TO BE INSTALLED AT UPSTREAM ENDS OF DRAIN PIPE.
3. GRATE OPENING TO BE BLOCKED DURING CONSTRUCTION TO PREVENT DEBRIS FROM ENTERING PIPE.
4. SURFACE CONFIGURATION TO CONFORM WITH STANDARD CURB AND GUTTER.



PLAN VIEW



SECTION A-A

REV.	DATE

CONSTRUCTION  
STANDARDS

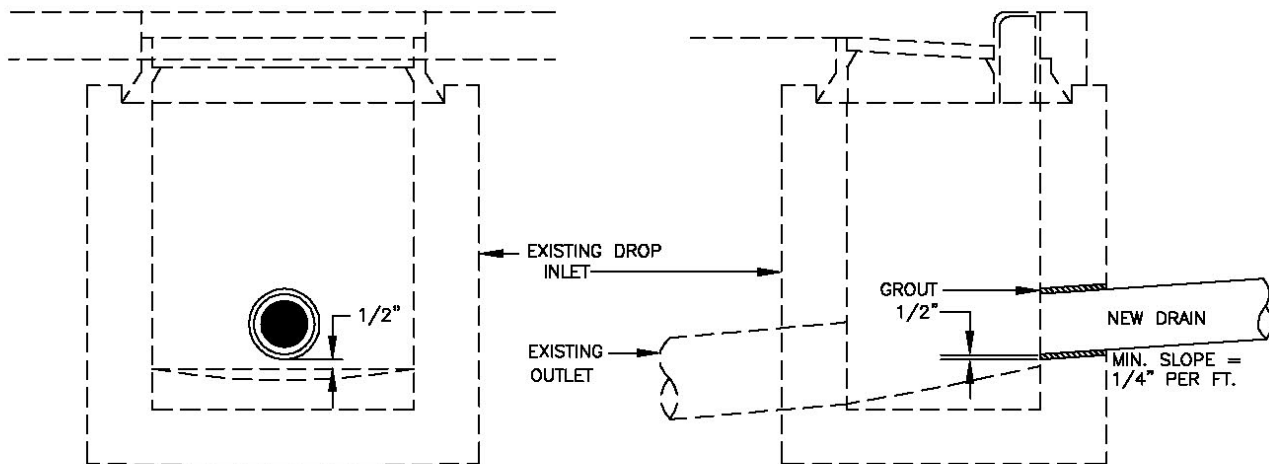
SLOTTED CURB DRAIN

STANDARD No. D-508 SHEET 1 OF 1

CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT

GENERAL NOTES

1. THE CITY DOES NOT ACCEPT RESPONSIBILITY FOR MAINTENANCE OF ANY DRAIN LINES INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.
2. CORE DRILL INTO BACK OF EXISTING CATCH BASIN WITH INVERT OF DRILLED OPENING 1/2" ABOVE EXISTING CONC. GROUT WITH NONSHRINK, NONMETALLIC GROUT.
- △ 3. NEW DRAIN LINE TO BE SCH. 40 PVC, RCP, DUCTILE IRON PIPE, OR ADS N-12 HDPE. DRAIN SIZE TO BE AT LEAST ONE SIZE SMALLER THAN OUTLET PIPE WITH A MAXIMUM SIZE OF 12".



TYPICAL SECTIONS THRU DROP INLET

REV.	DATE
△	12/16/04

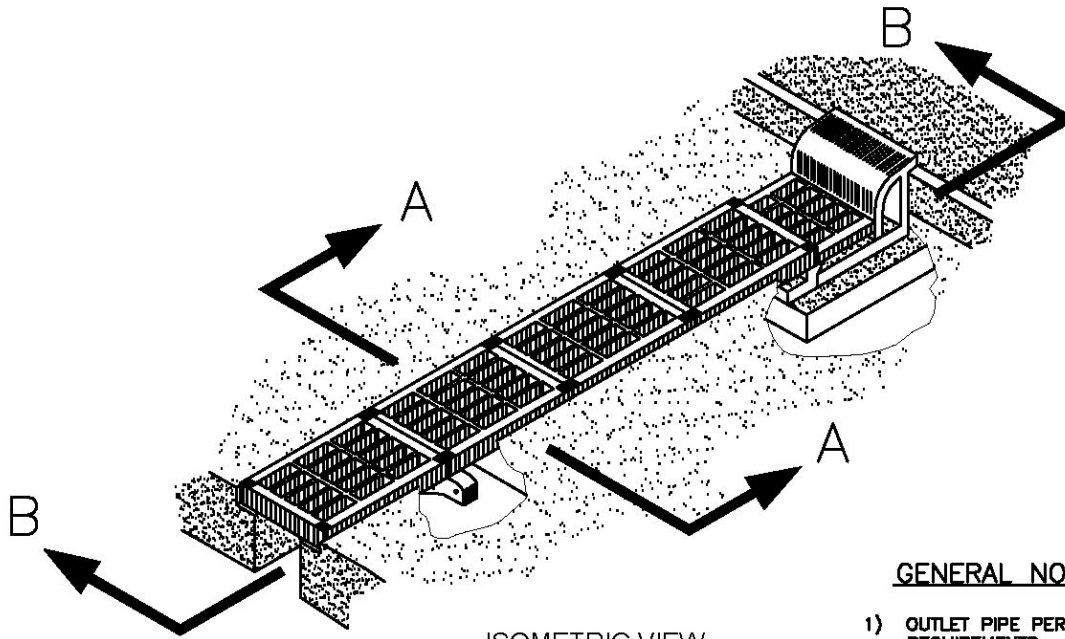
CONSTRUCTION  
STANDARDS

DRAIN LINE CONNECTION  
TO EXISTING DROP INLET

STANDARD No. D-509 SHEET 1 OF 1

CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT

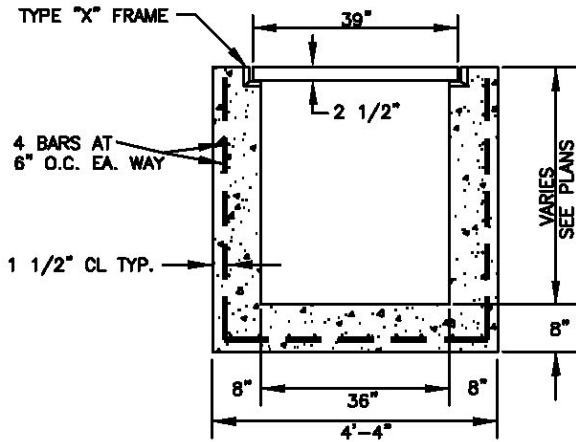




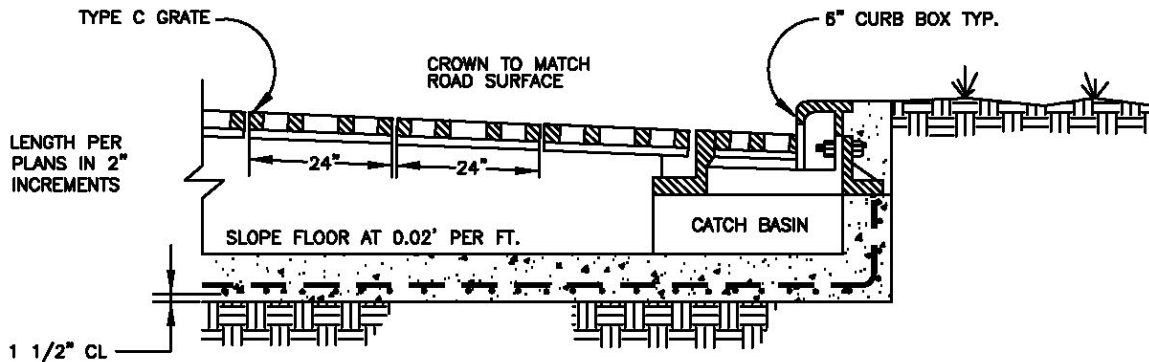
ISOMETRIC VIEW

**GENERAL NOTES**

- 1) OUTLET PIPE PER DESIGN REQUIREMENTS.
- 2) FOR FLAT OR CROWNED TRANSVERSE DRAINAGE STRUCTURES USE NEENAH R-4999 SERIES WITH TYPE "C" GRATE AND TYPE "X" FRAME, OR APPROVED EQUAL.
- 3) INLETS OR CURB BOXES NEED NOT BE INSTALLED AT BOTH ENDS OF THE TRENCH DRAIN; THEY CAN BE USED IN COMBINATION OR NOT AT ALL, DEPENDING ON DRAINAGE CONDITIONS.
- 4) BOLT GRATES TO FRAMES WITH STAINLESS STEEL BOLTS WHEN REQUIRED.
- 5) CONCRETE TO BE 3,000 P.S.I. 28 DAY TEST. COMPACTION TO 90% OF MODIFIED PROCTOR.



SECTION A-A



SECTION B-B

REV.	DATE
△	01/07/04

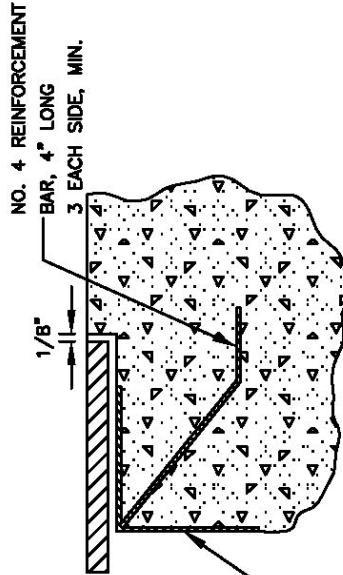
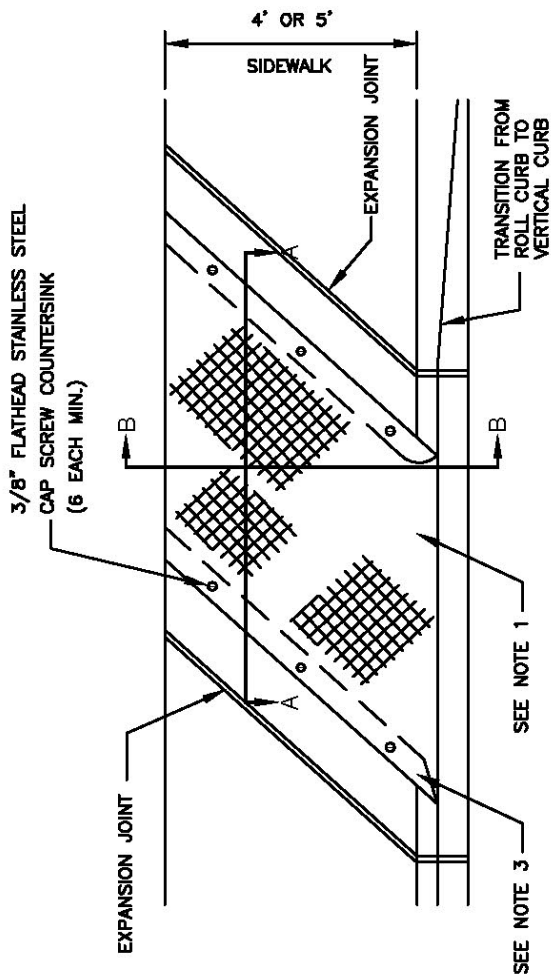
CONSTRUCTION  
STANDARDS

TRANSVERSE  
DRAINAGE STRUCTURE

STANDARD No. D-510 SHEET 1 OF 1

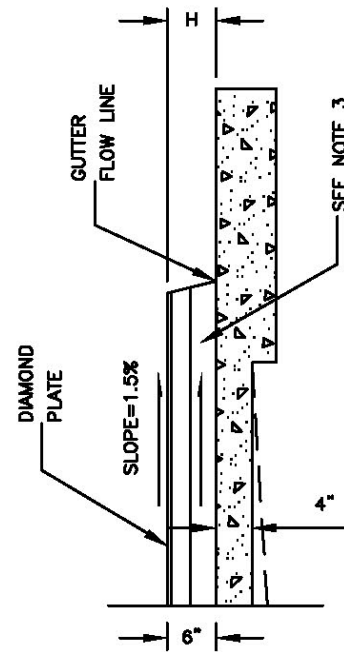
CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT

- NOTES**
1. ANGLE EQUALS 45° SPECIFIED ON PLAN
  2. DIMENSION 'B' EQUALS 'A' + 2'
  3. ( ——— ) INDICATES DIRECTION OF FLOW
  4. TWO COATS OR BLASTED & POWDOR COATED
  5. R EQUALS 1" UNLESS OTHERWISE DIRECTED
  6. H EQUALS CURB FACE HEIGHT
  7. FOR ROLL CURB AND GUTTER, USE 2' TRANSITIONS TO VERTICAL CURB.
  8. 3500 PSI

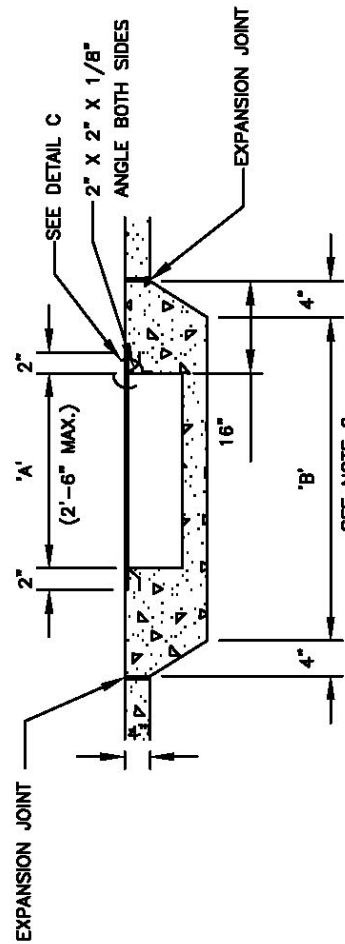


**DETAIL C**

2" X 2" X 1/8" ANGLE BOTH SIDES



**SECTION 'B-B'**



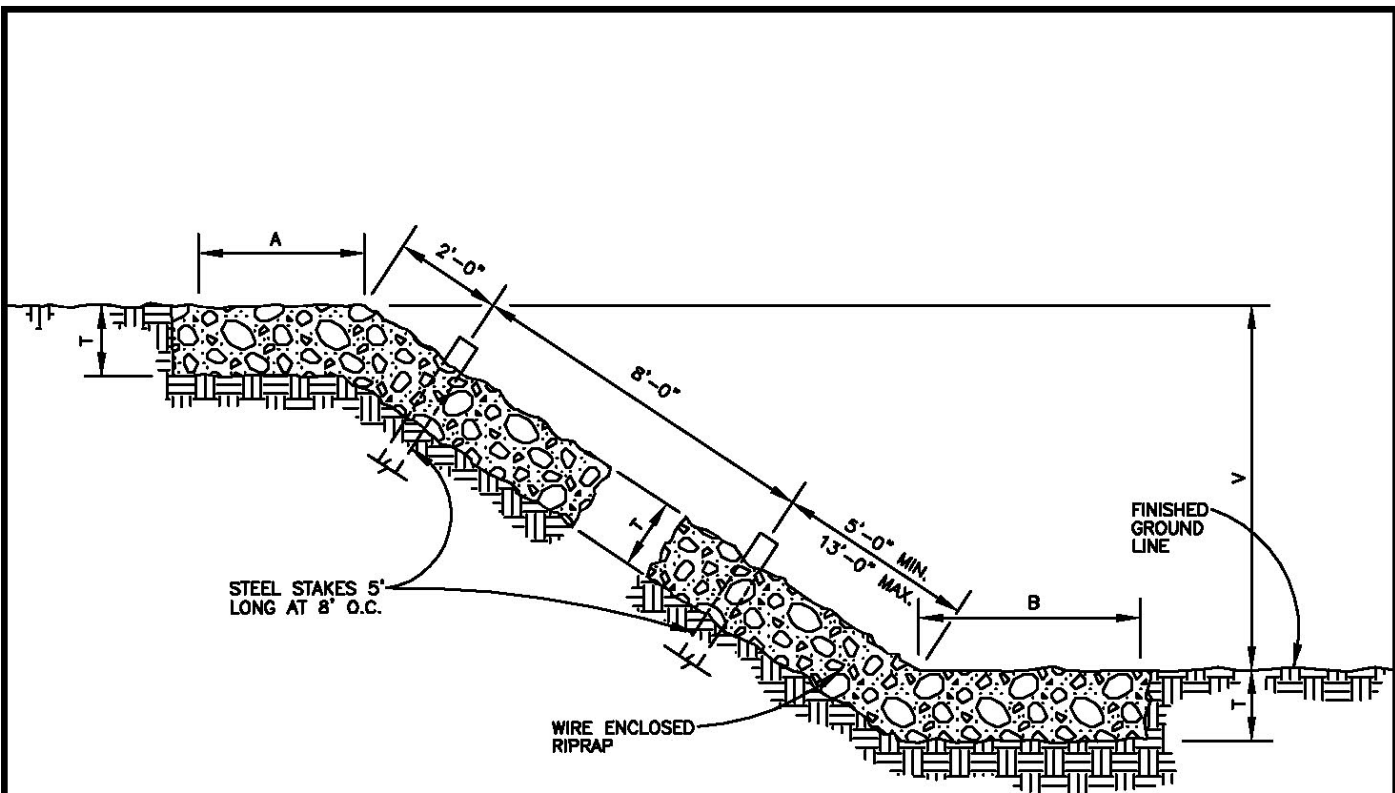
**SECTION 'A-A'**

CONSTRUCTION STANDARDS

SCUPPERS

STANDARD No. D-511 SHEET 1 OF 1

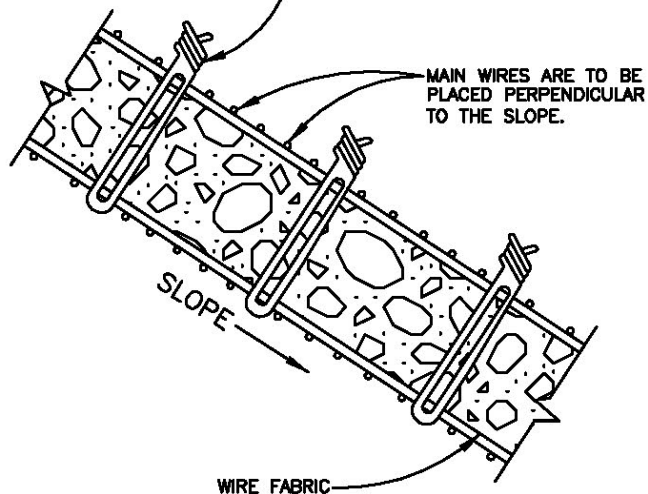
CITY OF AZTEC  
PUBLIC WORKS DEPARTMENT



STEEL STAKES 5' LONG AT 8' O.C.

WIRE ENCLOSED RIPRAP

NO. 9 GAGE GALVANIZED TIE WIRES AT APPROX. 2' CENTERS LONGITUDINALLY & TRANSVERSELY.



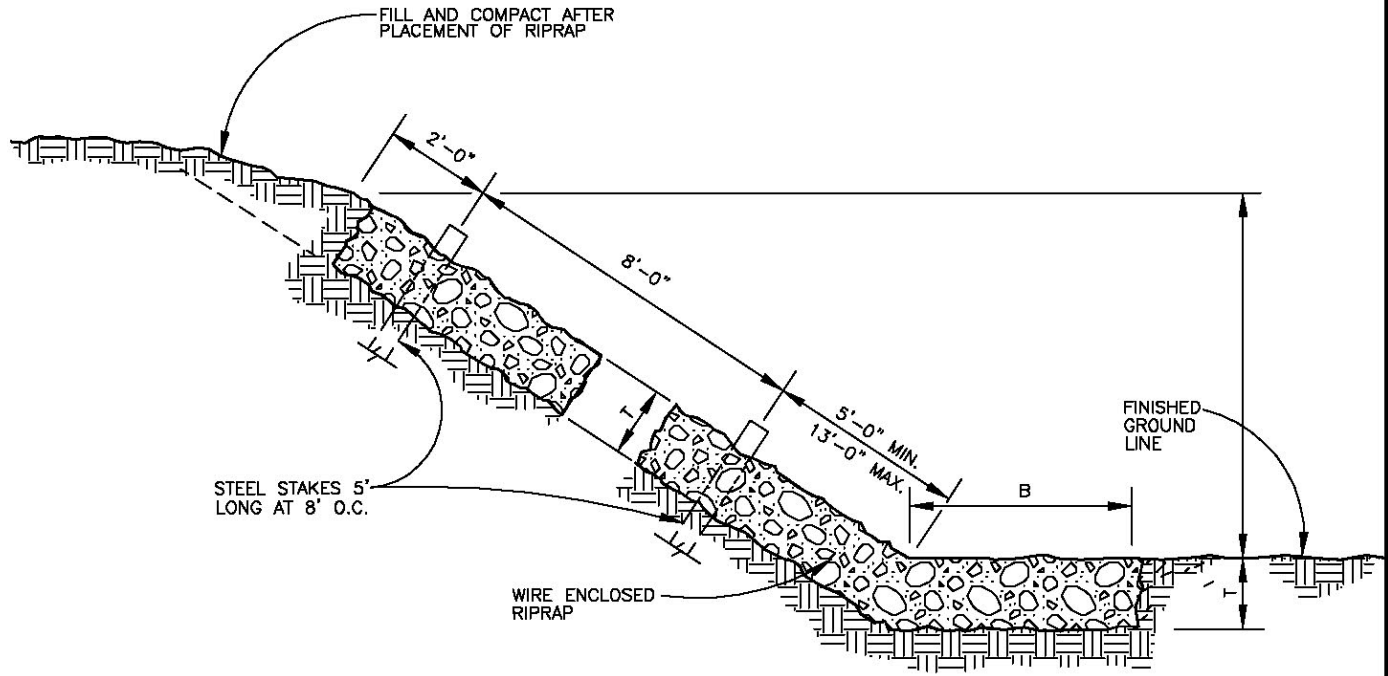
SLOPE	RIPRAP CU. YDS
1:1	$\frac{V}{27} (A + B + 1.414V)$
1 1/2:1	$\frac{V}{27} (A + B + 1.803V)$
1 3/4:1	$\frac{V}{27} (A + B + 2.016V)$
2:1	$\frac{V}{27} (A + B + 2.236V)$
3:1	$\frac{V}{27} (A + B + 3.162V)$
4:1	$\frac{V}{27} (A + B + 4.123V)$

CONSTRUCTION STANDARDS

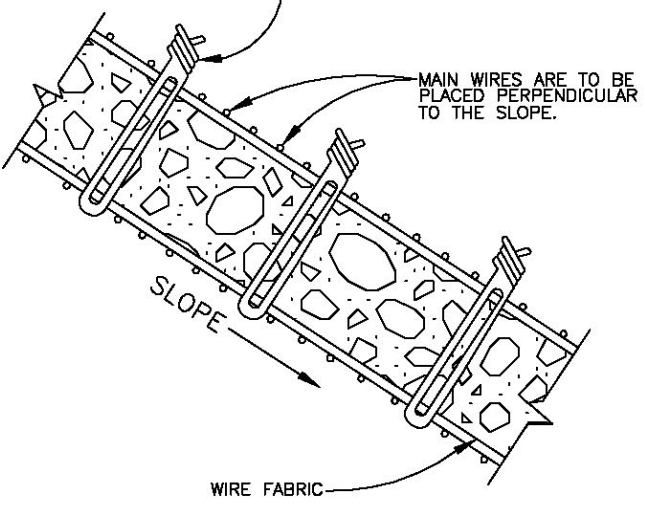
## WIRE ENCLOSED RIP RAP DETAIL

STANDARD No. D-512 SHEET 1 OF 4

CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT



NO. 9 GAGE GALVANIZED TIE WIRES AT APPROX. 2' CENTERS LONGITUDINALLY & TRANSVERSELY.



SLOPE	RIPRAP CU. YDS
1 1/2:1	$\frac{I}{27} (A + B + 1.414V)$
1 3/4:1	$\frac{I}{27} (A + B + 1.803V)$
2:1	$\frac{I}{27} (A + B + 2.016V)$
3:1	$\frac{I}{27} (A + B + 2.236V)$
4:1	$\frac{I}{27} (A + B + 3.162V)$

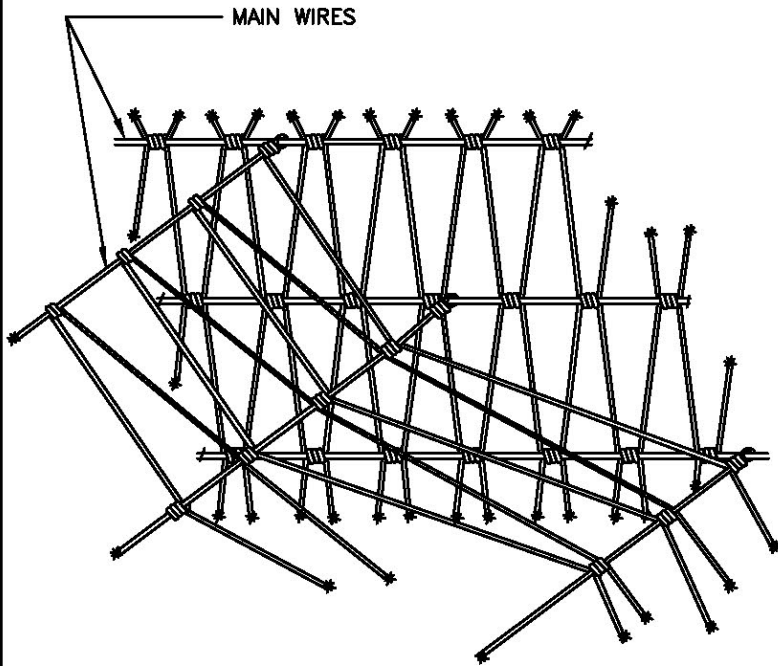
SEE SHEET 4 FOR GEN. NOTE.

CONSTRUCTION STANDARDS

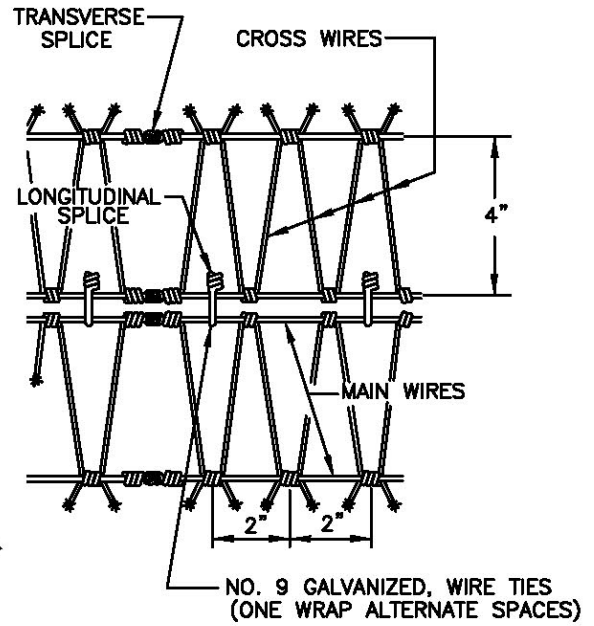
WIRE ENCLOSED RIP RAP  
DETAIL

STANDARD No. D-512 SHEET 2 OF 4

CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT

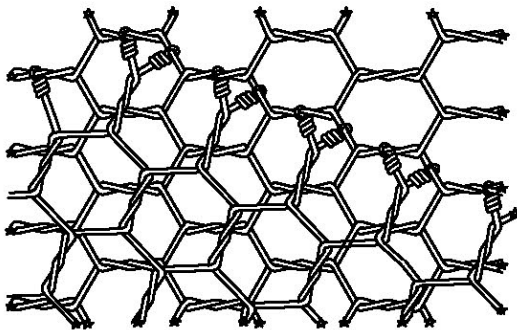


DETAIL OF SPLICE AT  
SKEWED INTERSECTIONS

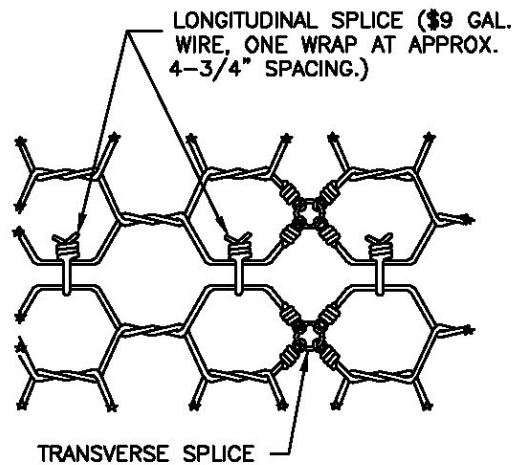


DETAIL OF WIRE FABRIC  
AND NORMAL SPLICE

## "V" MESH



SKEWED INTERSECTION



NORMAL INTERSECTION

## HEXAGONAL MESH

CONSTRUCTION  
STANDARDS

WIRE ENCLOSED RIP RAP  
DETAIL

STANDARD No. D-512 SHEET 3 OF 4

CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT

GENERAL NOTES

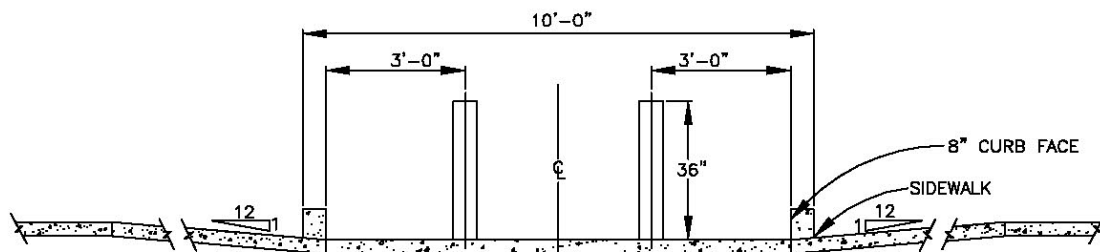
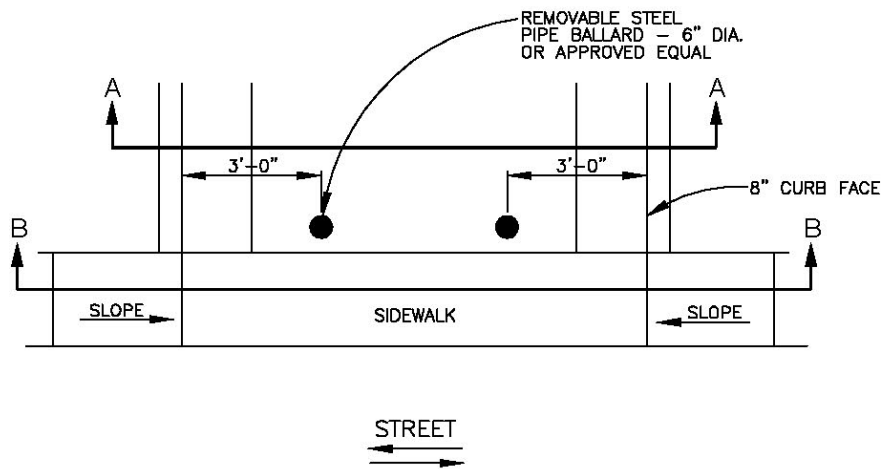
1. WIRE FABRIC IS TO BE GALVANIZED "V" MESH OF THE FOLLOWING CONSTRUCTION:  
MAIN WIRES: TWO NO. 12-1/2 GAUGE STRANDED WIRES SPACED AT 4".  
CROSS WIRES: SINGLE NO. 12-1/2 GAUGE WIRE SPACED AT 2" WITH NOT LESS THAN TWO TURNS AROUND THE MAIN WIRES.  
APPROXIMATE WEIGHT: 48 LBS PER 100 SQUARE FEET.
2. STEEL STAKES MAY BE RAILROAD RAILS WEIGHING NOT LESS THAN 30 LBS PER YARD, 4" O.D. STANDARD STRENGTH GALVANIZED STEEL PIPE OR 4 X 4 X 3/8 STEEL ANGLES. STEEL STAKES SHALL PROJECT 6" ABOVE TOP OF RIPRAP. STEEL STAKES ARE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE WORK AND NO DIRECT MEASUREMENT OR PAYMENT WILL BE MADE THEREFORE.
3. IF LENGTH OF SLOPE IS 15 FEET OR LESS ONLY ONE ROW OF STEEL STAKES, 2 FEET FROM THE TOP EDGE OF THE RIPRAP, WILL BE REQUIRED UNLESS OTHERWISE NOTED ON PLANS.
4. FOR DIMENSIONS A, B, V & T. SEE BRIDGE OR ROADWAY PLANS.
5. T = 12" UNLESS OTHERWISE SHOWN ON PLANS.  
T = 18" AT BRIDGES.
6. AS AN ALTERNATE, WIRE FABRIC MAY BE GALVANIZED STEEL WIRE MEETING THE REQUIREMENTS FOR CLASS 3, FINISH 5, MEDIUM TENSILE STRENGTH COATED WIRE AS SET FORTH IN FEDERAL SPECIFICATIONS QQ-W-461. THE WIRES SHALL BE CONTINUOUS, HAVE A DIAMETER OF NOT LESS THAN 0.118 INCH AND SHALL BE TRIPLE TWISTED TO FORM A UNIFORM HEXAGONAL MESH PATTERN WITH A MAXIMUM OPENING SIZE OF 3" X 4 3/4".

CONSTRUCTION  
STANDARDS

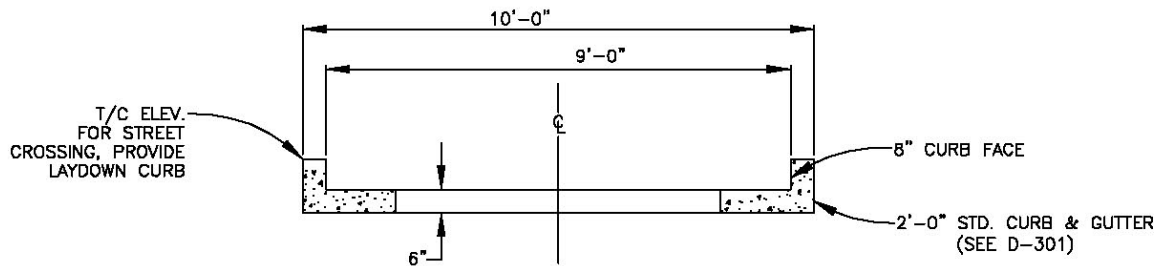
WIRE ENCLOSED RIP RAP  
DETAIL

STANDARD No. D-512 SHEET 4 OF 4

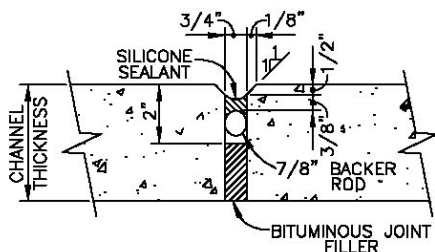
CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT



SECTION B-B



SECTION A-A



SEALED EXPANSION JOINT  
DETAIL "A"

**NOTES**

1. 1/2" PREFORMED BITUMINOUS EXPANSION JOINT MATERIAL WITH SILICONE SEALANT EQUALLY SPACED WITH NOT MORE THAN 20'-0" BETWEEN EXPANSION JOINTS. (SEE DETAIL "A")
2. A CONTROL JOINT EVERY 5'-0".

**CONSTRUCTION  
STANDARDS**

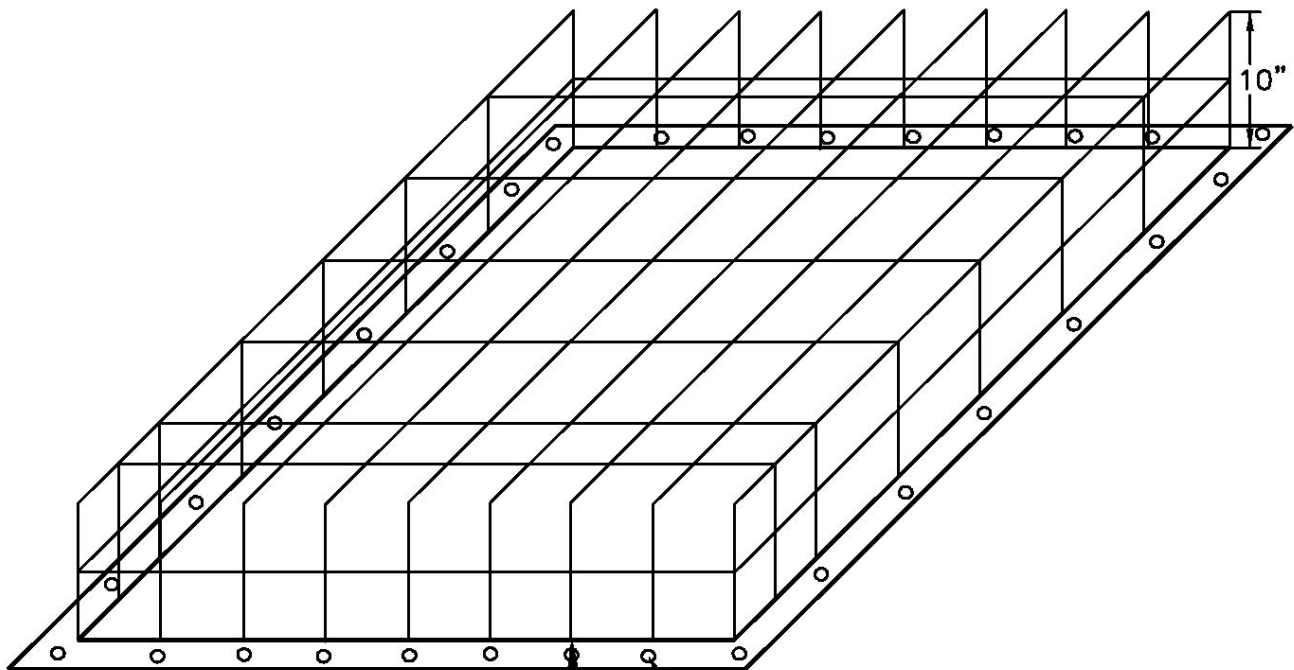
**TYPICAL CONCRETE  
DRAINAGE CHANNEL**

STANDARD No. D-513 SHEET 1 OF 1

**CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT**

SQUARES TO BE NO BIGGER THAN 4" OPENING  
USE 5/8" ROUND STOCK FOR BARS  
WELD EVERY BAR  
1/4" x 2" FLAT BAR BASE

ATTACH TO CONCRETE VIA 5/8" BOLTS.



1/4" X 2" Flat Base

5/8 CONCRETE ANCHORS  
- 'RED HEAD'

CONSTRUCTION  
STANDARDS

# TRASH RACK

STANDARD No. D-514 SHEET 1 OF 1

CITY OF  
AZTEC  
PUBLIC WORKS  
DEPARTMENT