

NOTES:

1. CUT AND FILL SLOPES SHALL BE A MAXIMUM OF 4:1.
2. RIGHT OF WAY AND EASEMENT AREAS SHALL BE GRADED (CUT & FILL) TO SUBGRADE $\pm 6"$ AT UTILITY LOCATIONS, INCLUDING SERVICES, PRIOR TO UTILITY INSTALLATION.
3. STANDARD CROWN SLOPE IS 2%. WITH SPECIAL DESIGN REVIEW, 1% TO 4% IS ALLOWABLE AT TRANSITION AND OTHER ATYPICAL SECTIONS.
4. NO PARKING PERMITTED.
5. BITUMINOUS SURFACE COURSE REQUIRED.



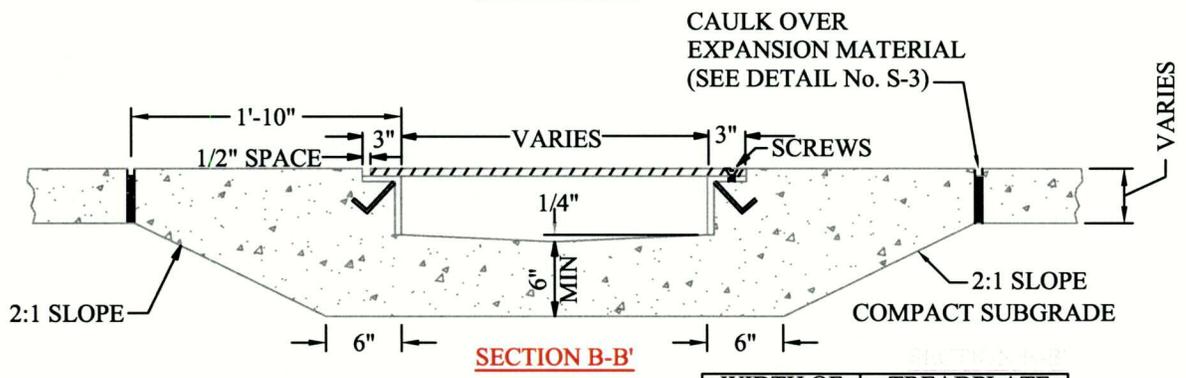
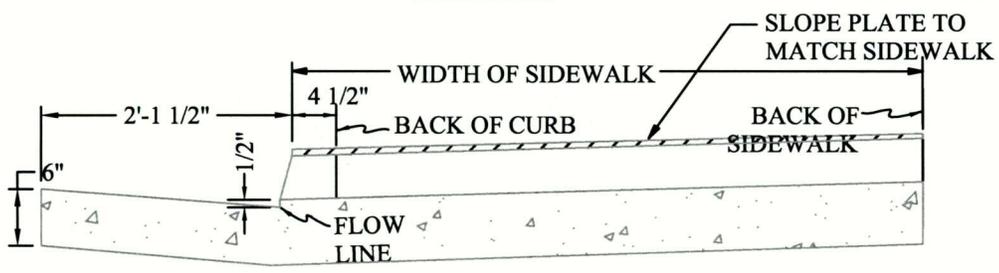
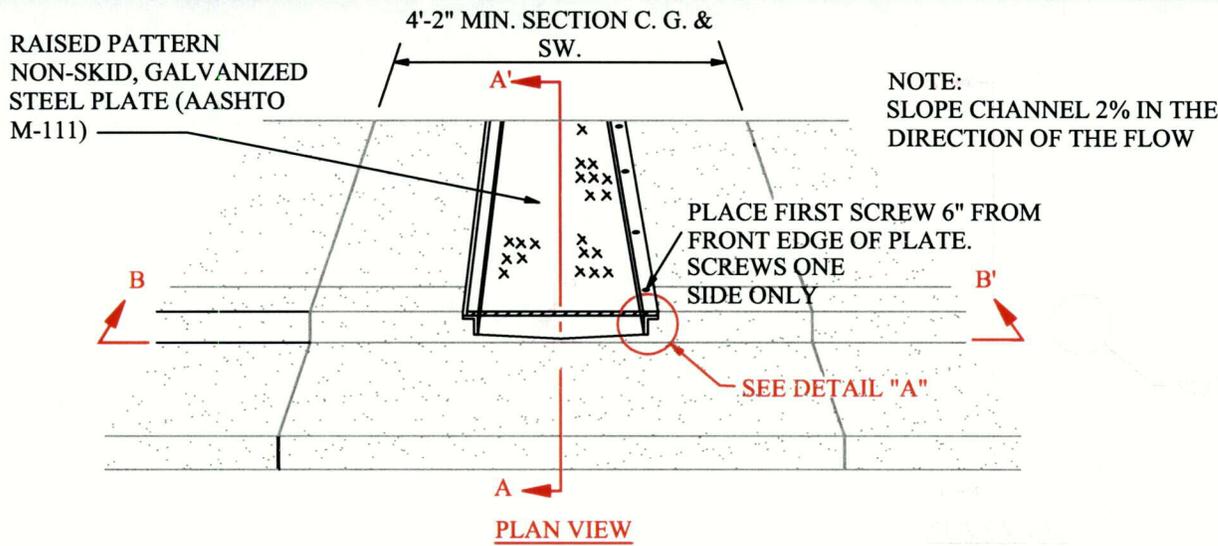
Public Works
Department

ROADWAY SECTION DETAIL
ALLEY

Scale: N.T.S

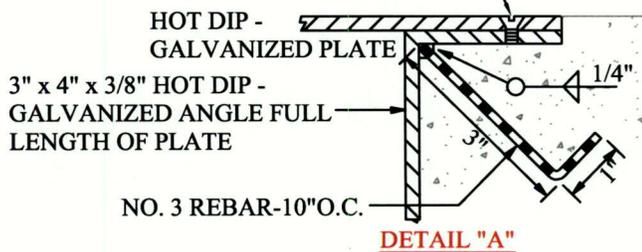
Detail No. S-31

April 2004

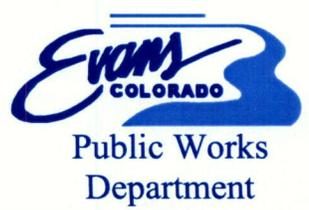


WIDTH OF OPENING	TREADPLATE THICKNESS
6"	3/8"
6"-12"	1/2"
12"-18"	9/16"
18"-24"	5/8"
>24"	SPECIAL DESIGN

3/8" NON-CORROSIVE MACHINE SCREW (TYP.) AT 12" O.C. - COUNTERSUNK SCREWS ALONG ONE SIDE ONLY



- NOTES:
1. FOR TYPE 2 SECTION MS MODIFIED, TRANSITION (3' MIN.) TO TYPE 2 SECTION IIB FOR CHASE CONSTRUCTION.
 2. WHEN THE CURB IS SEPARATED FROM THE SIDEWALK, THE STEEL PLATE SHALL BE PLACED ON THE SIDEWALK AND THE CONCRETE CHANNEL (WITH 6" THICK WALLS ON EACH SIDE) CONTINUED INTO THE CURB AND GUTTER.
 3. NEENAH R-4999 SERIES BOLTED TRANSVERSE DRAINAGE STRUCTURE, SOLID CHECKERED TYPE D GRATE MAY BE SUBSTITUTED.

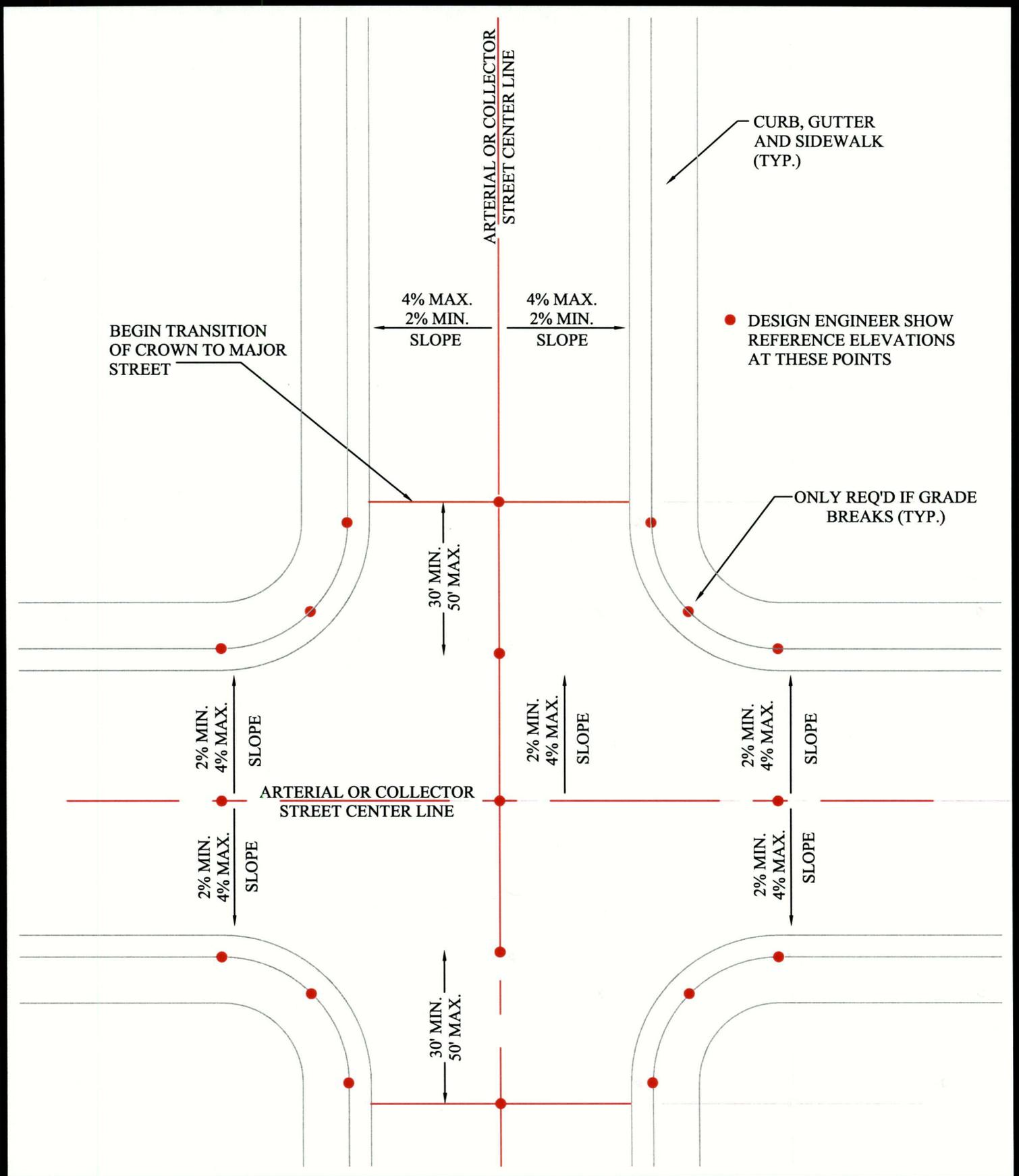


SIDEWALK CHASE DETAIL

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Detail No. S-32

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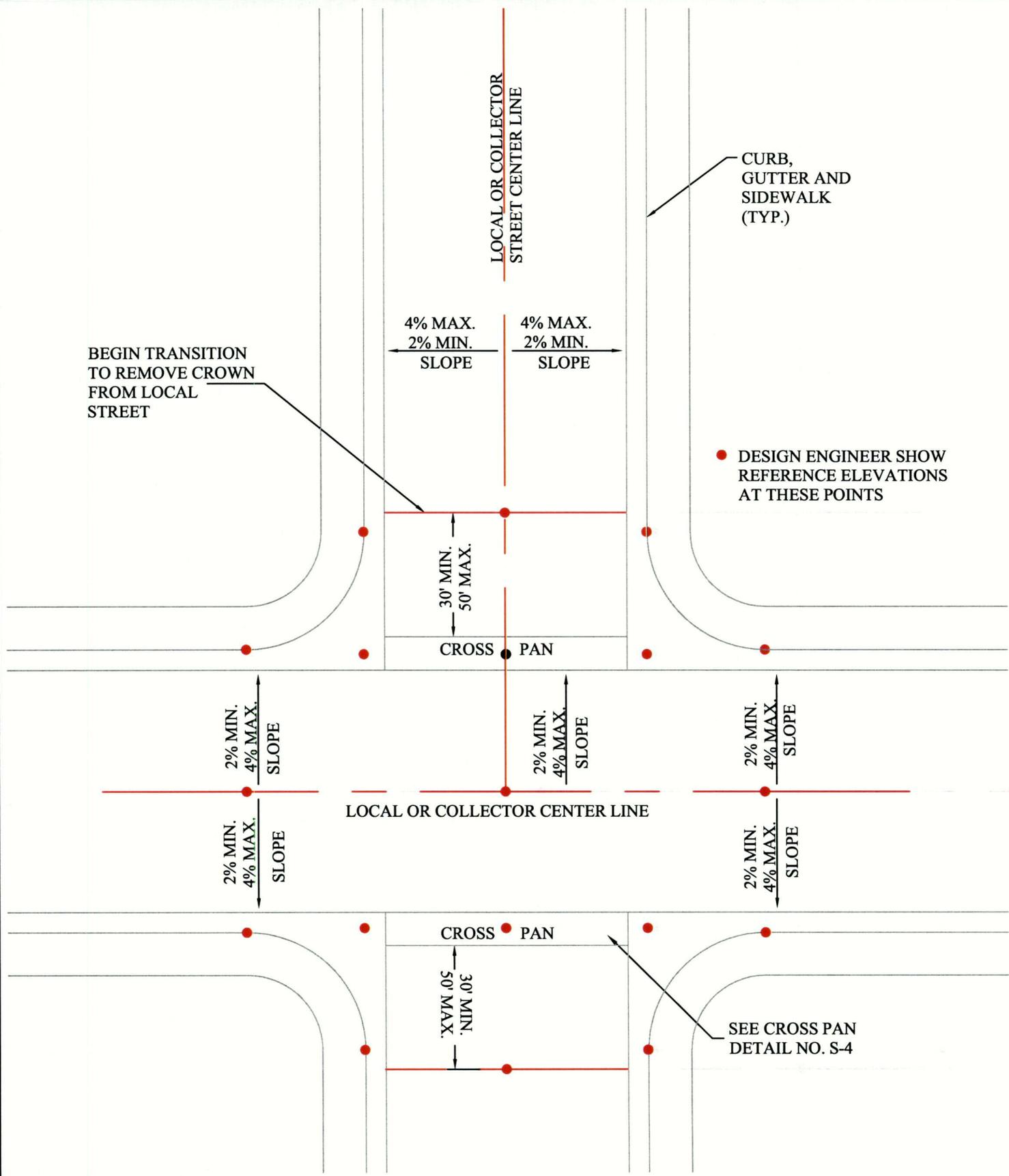


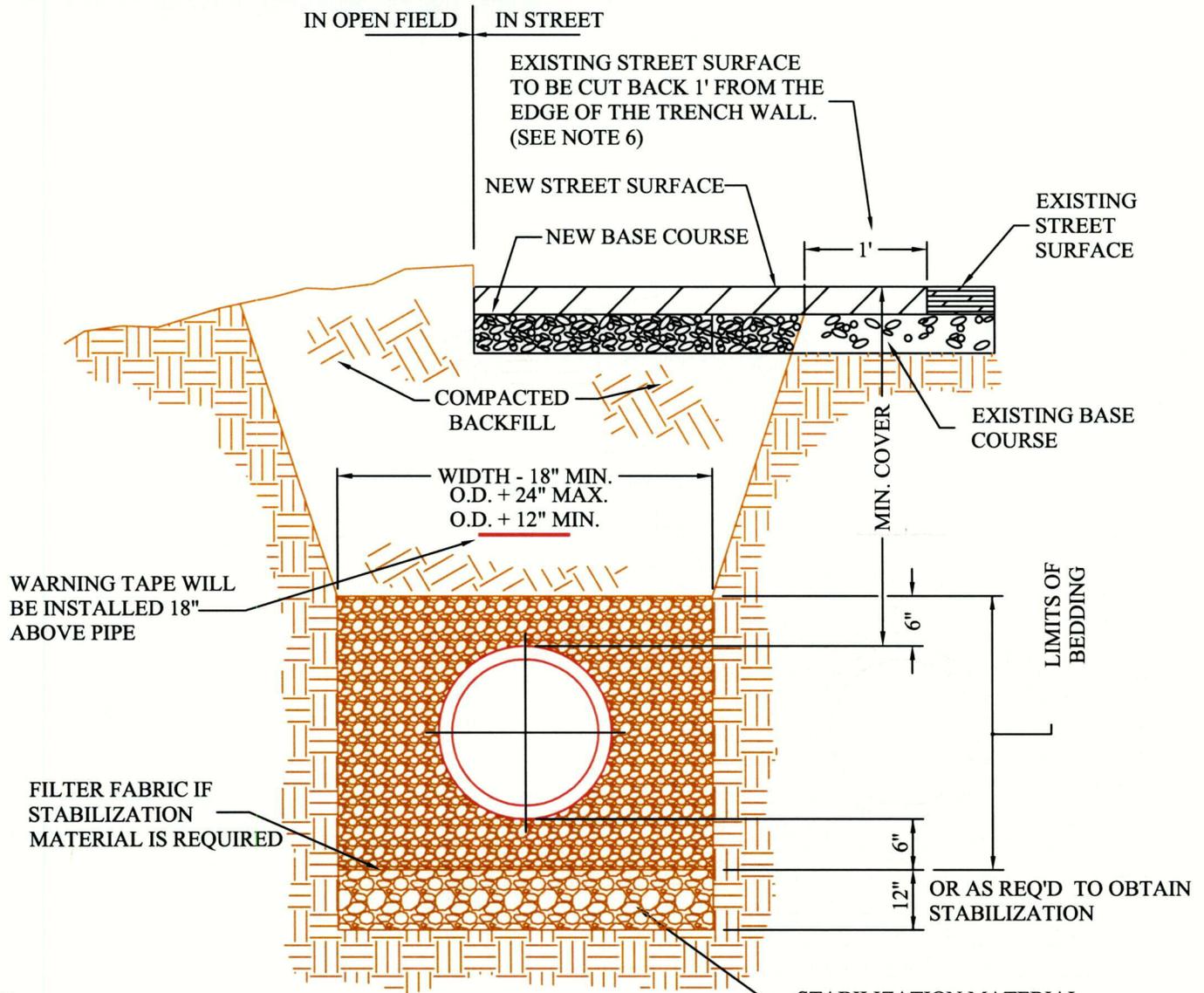
STREET INTERSECTION APPROACH DETAIL
COLLECTOR & ARTERIAL

Scale: N.T.S

Detail No. S-33

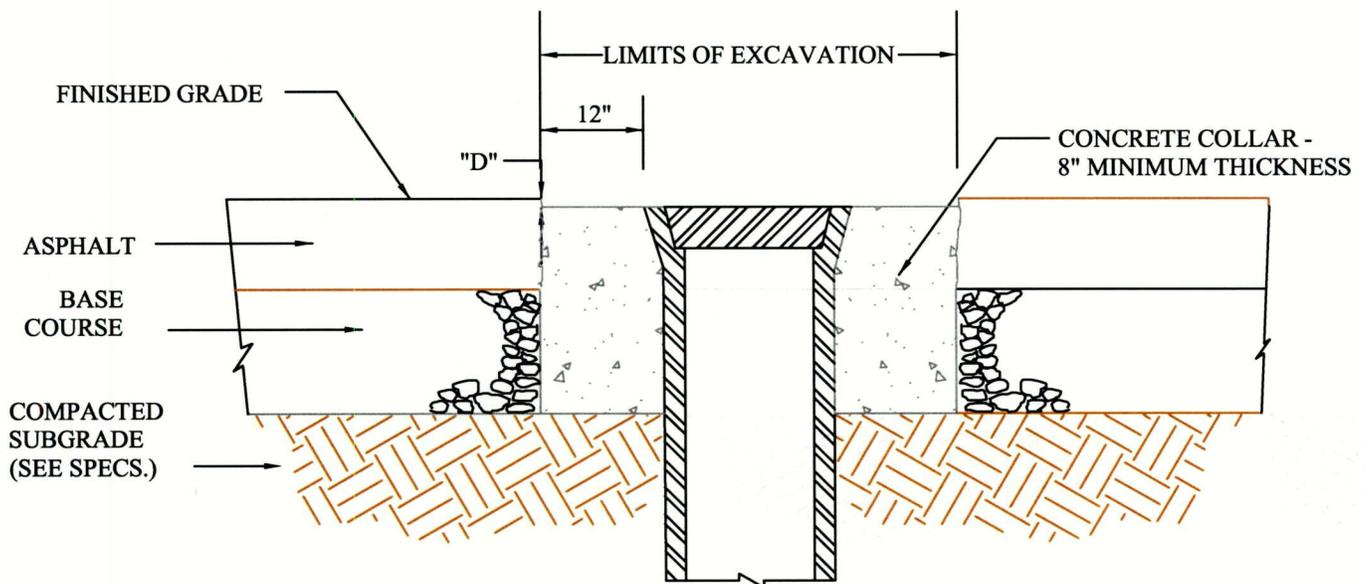
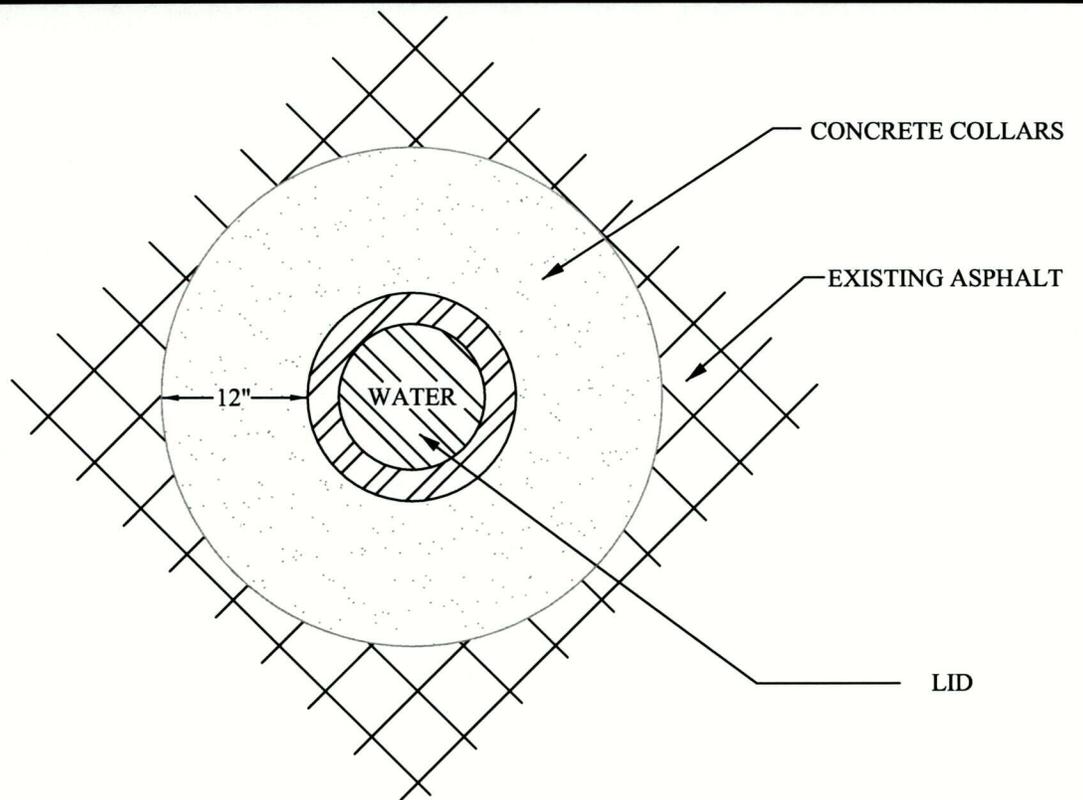
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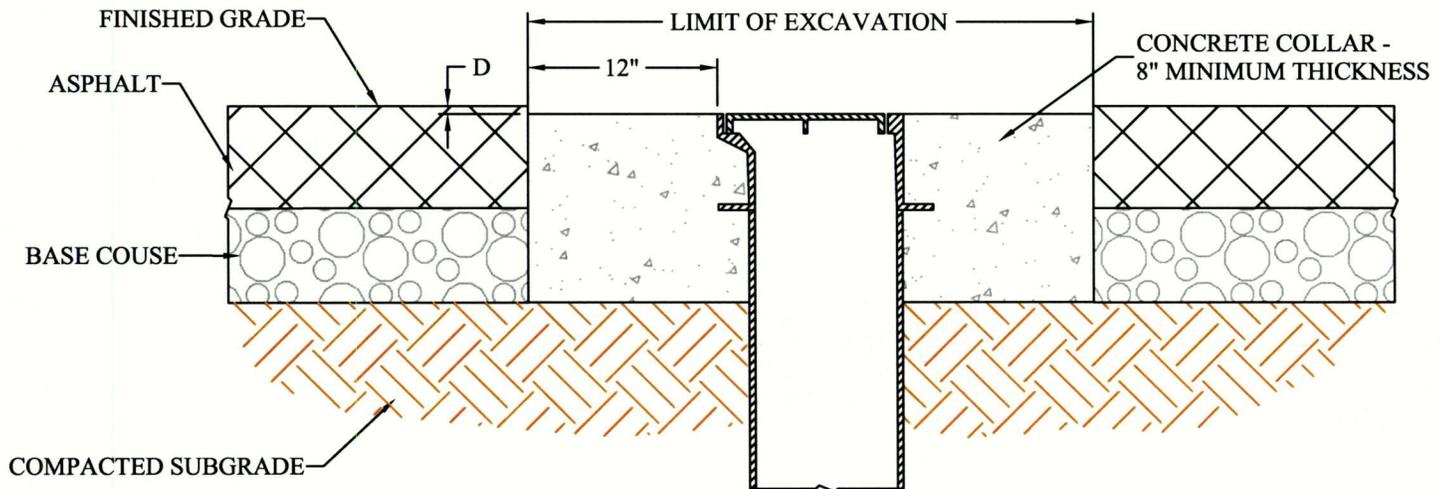
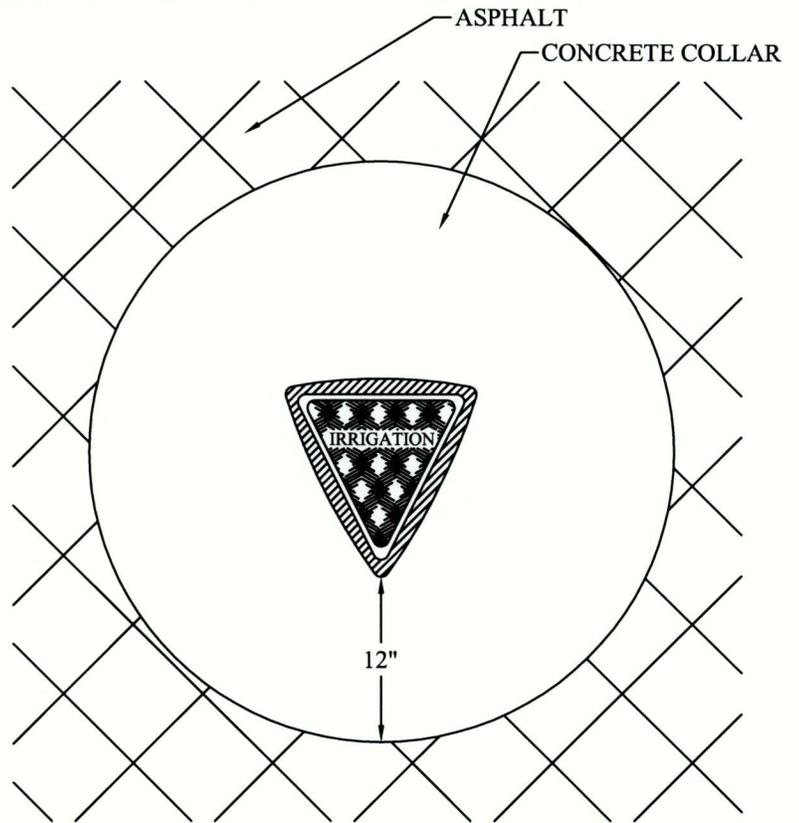
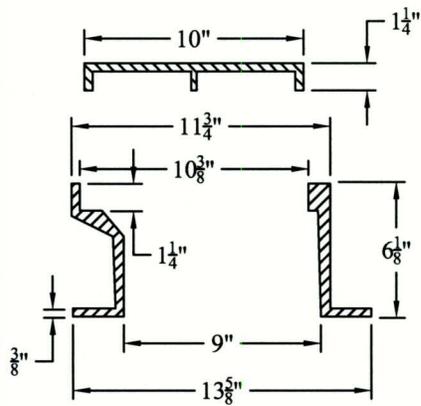
NOTES:

1. RIGHT OF WAY & EASEMENT AREAS SHALL BE GRADED (CUT & FILL) TO SUBGRADE AT UTILITY LOCATIONS INCLUDING SERVICES, PRIOR TO UTILITY INSTALLATION.
2. BACKFILL TO BE COMPACTED TO 95% WITH IN $\pm 2\%$ OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY A.S.T.M. D-698 DENSITY IN ALL AREAS UNLESS OTHERWISE NOTED. ALL TRENCHES SHALL BE COMPACTED BY A METHOD APPROVED BY THE CITY.
3. TRENCH EXCAVATION SHALL COMPLY WITH ALL OSHA STANDARDS.
4. FILTER FABRIC IS REQUIRED IF STABILIZATION MATERIAL IS USED. THE FABRIC SHALL BE INSTALLED AS SHOWN IN THE DETAIL.
5. IF NOT SPECIFIED BY APPLICABLE UTILITY, AN APPROVED GRADE OF SAND BEDDING SHALL BE INSTALLED TO SPRINGLINE.
6. A 1-FOOT CUT BACK IS NOT REQUIRED IF FLOW FILL IS USED FOR BACKFILL.
7. SEE WATER LINE TRENCH DETAIL CROSS-SECTION DETAIL (No. WA-17) IN SECTION 9 OF THE SPECIFICATIONS FOR WATER AND SANITARY SEWER SYSTEMS FOR ADDITIONAL INFORMATION.



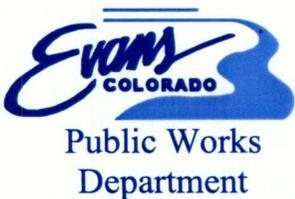
NOTES:

1. "D" = 1/4" FOR PAVEMENT OVERLAYS OR SURFACE TREATMENTS
2. "D" = 1/2" FOR PAVEMENT RECONSTRUCTION OR NEW CONSTRUCTION
3. "D" = "0" FOR CONCRETE STREETS
4. VALVE BOX MUST BE PLUMB AND CENTERED OVER THE VALVE NUT
5. THIS DETAIL APPLIES TO BOTH ASPHALT AND CONCRETE STREETS



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3. "D" = 0" FOR CONCRETE STREETS
4. VALVE BOX MUST BE PLUMB AND CENTERED OVER THE VALVE NUT
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6. VALVE SHALL BE D&L SUPPLY MODEL M9009 OR APPROVED EQUAL



WATER VALVE
RAISING DETAIL
NONPOTABLE WATER VALVE

Scale: N.T.S

Detail No. S-37

April 2004