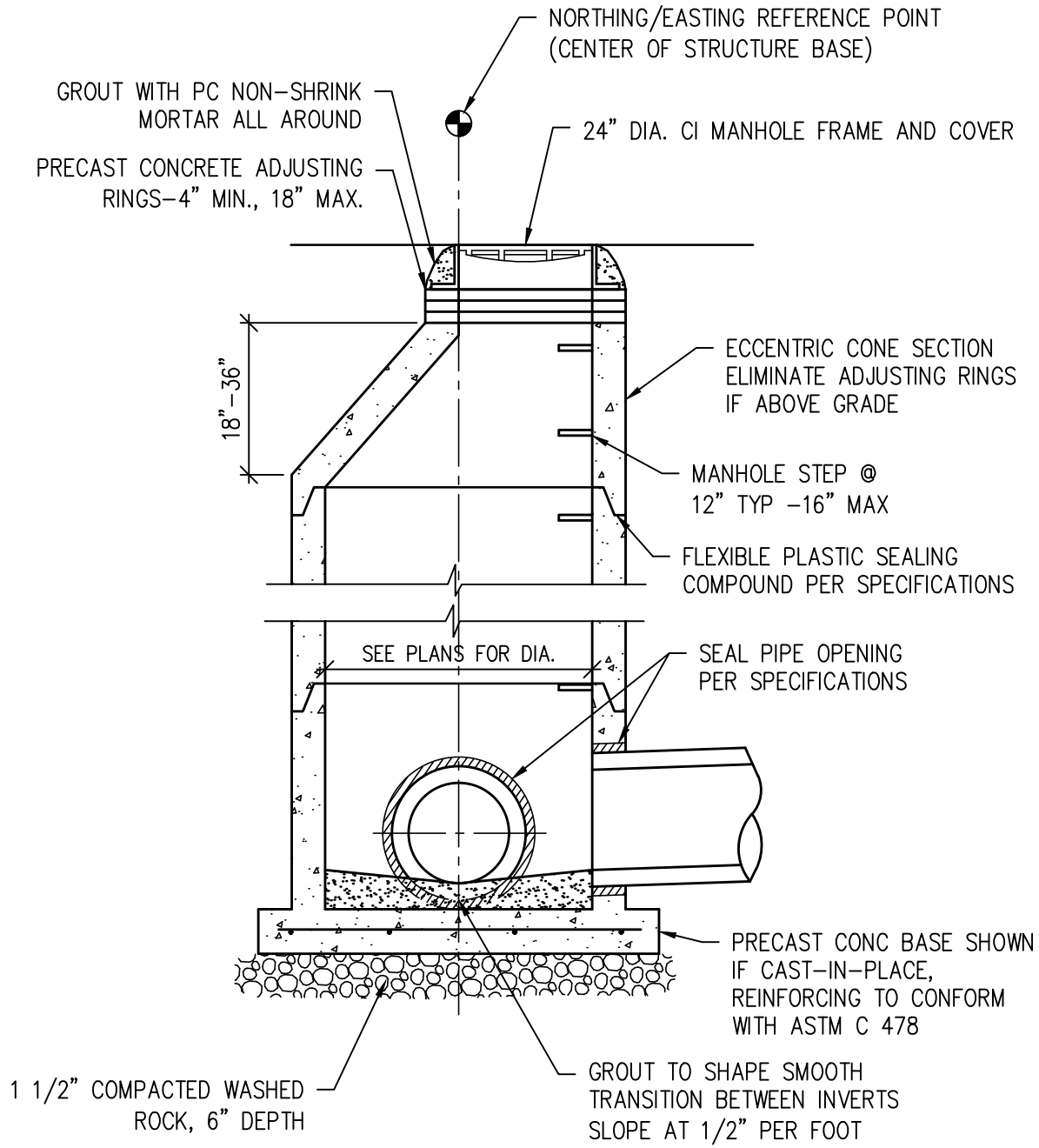
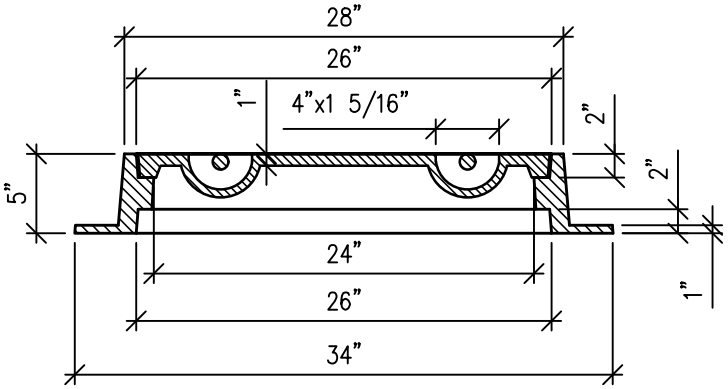


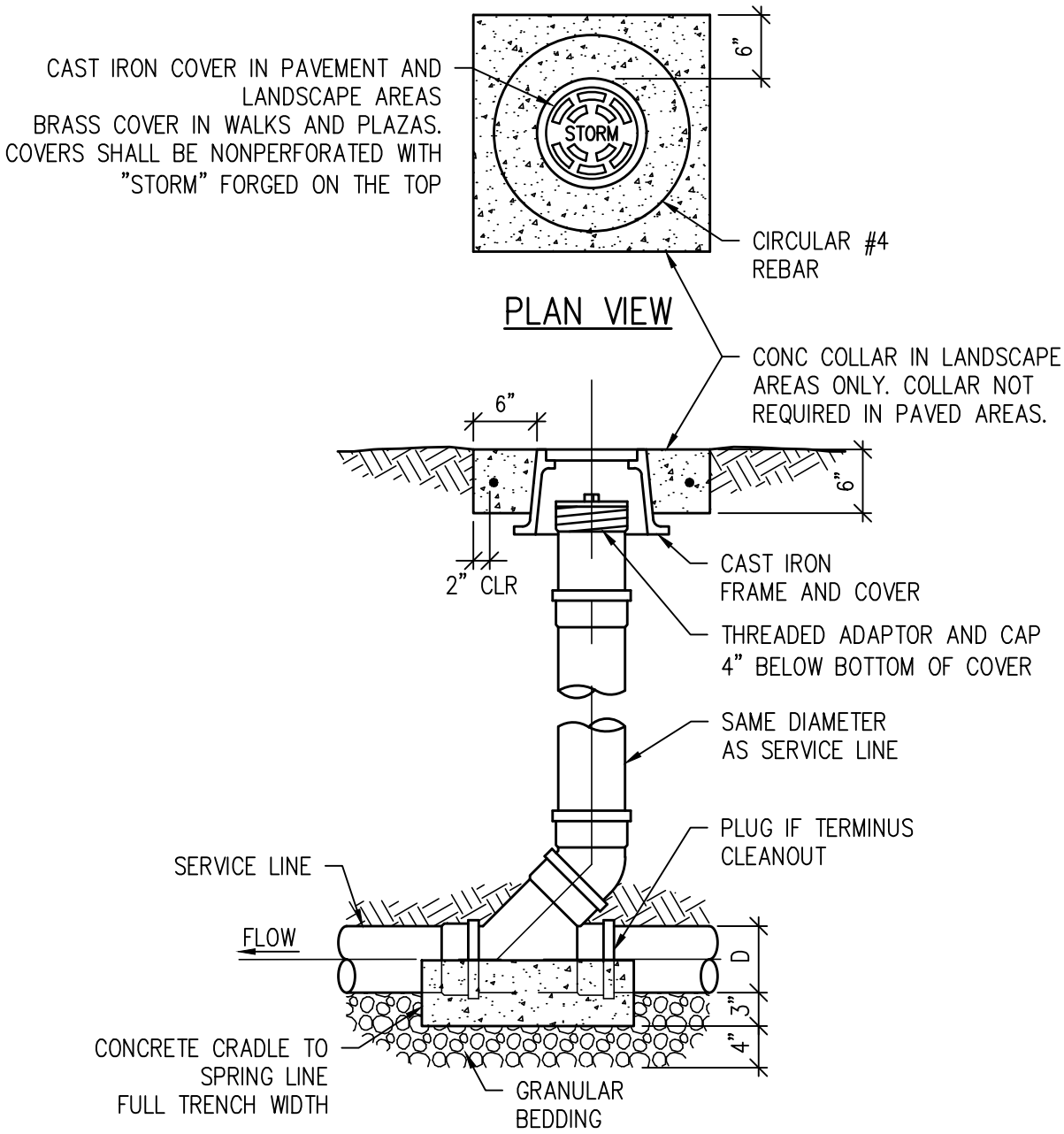
NOTES:

1. SHAPING FOR SMOOTH MANHOLE INVERTS MUST BE DONE BY FORMING OR SHAPING BASE CONCRETE.
2. BLOCK-OUTS WHEN APPROVED SHALL EXTEND A MAX OF 6" PAST MANHOLE OD AND BE SATISFACTORILY PLUGGED AND SEALED.
3. CONCRETE MANHOLES MAY BE POURED IN PLACE ONLY WITH PRIOR APPROVAL.
4. ALL MORTAR SHALL BE MIXED WITH A TYPE II CEMENT.
5. BENCH MUST HAVE A BRUSHED, NON-SKID SURFACE.



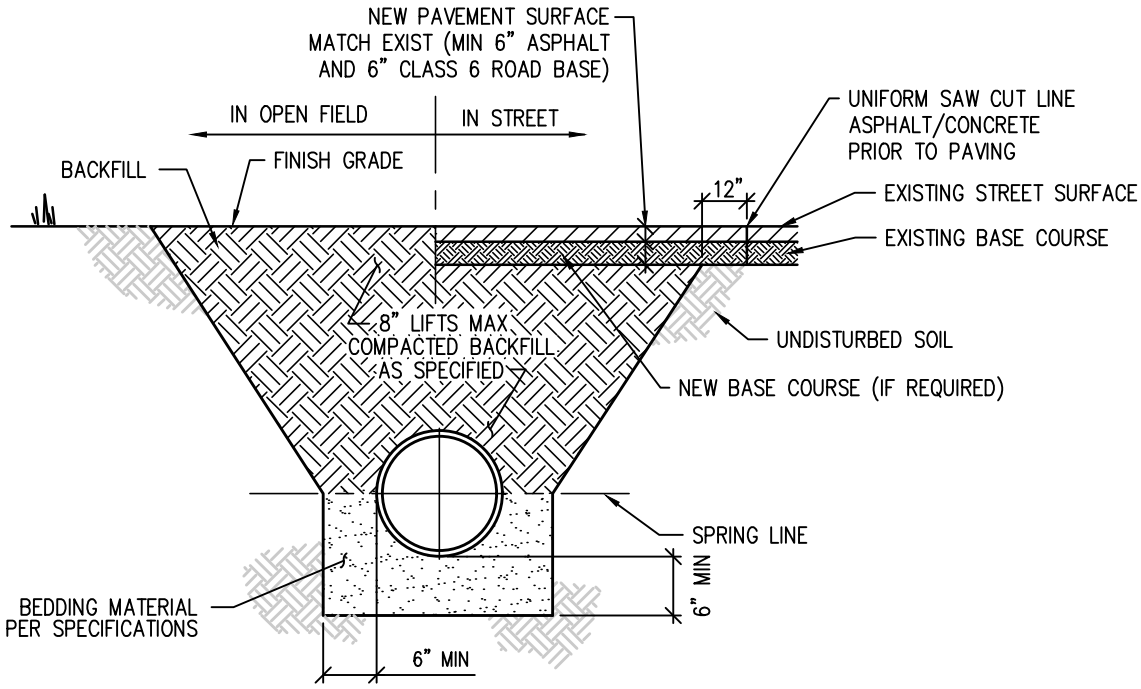
NOTES:

1. RING AND COVER SHALL BE IRON (AS MANUFACTURED FOR CURRENT AWWA STANDARD).
2. STORM SEWER MANHOLE COVERS SHALL BE NONPERFORATED WITH "DUMP NO WASTE! DRAINS TO WATERWAYS" AND "STORM SEWER" FORGED ON THE TOP OF THE LID AS SHOWN ABOVE.
3. ALL MANHOLES SHALL BE EQUIVALENT TO EAST JORDAN IRON WORKS MODEL 1480.
4. MANHOLE LID AND RING SHALL BE FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACES.

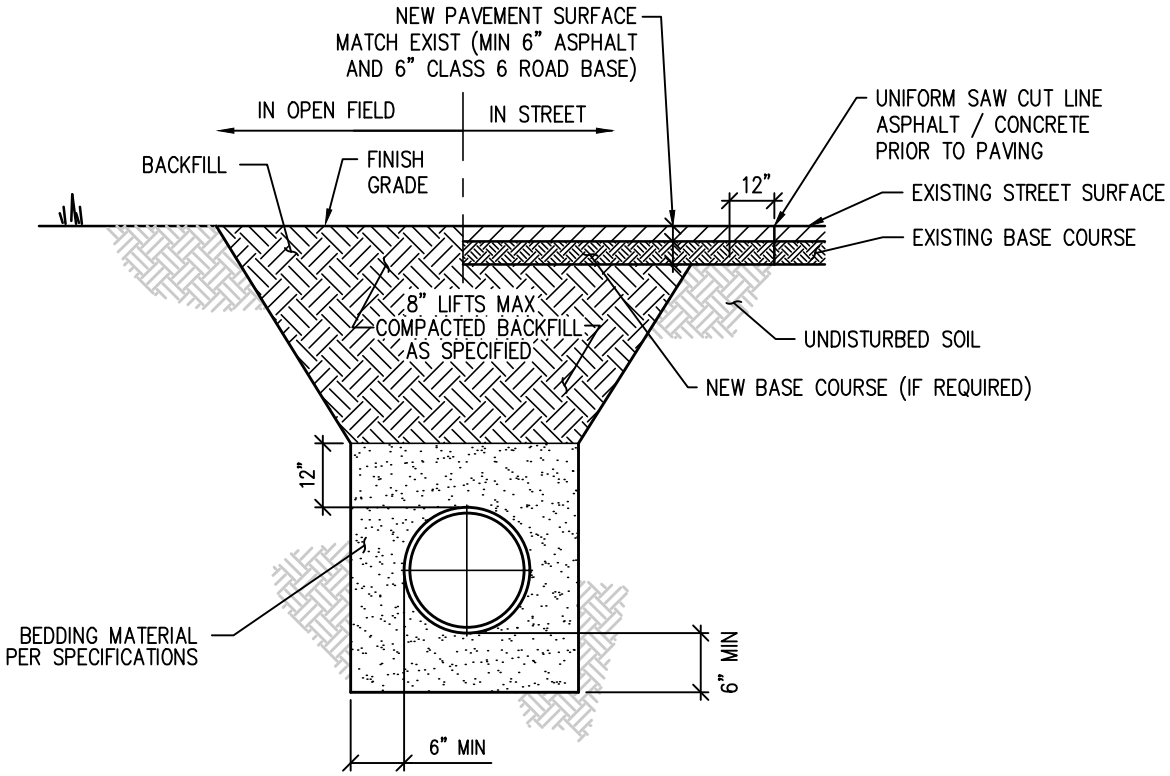


SCALE: NTS

MEAD COLORADO	TOWN OF MEAD STANDARD DESIGN CRITERIA	D6.02
	STORM CLEANOUT	DATE: 04/2021



REINFORCED CONCRETE PIPE



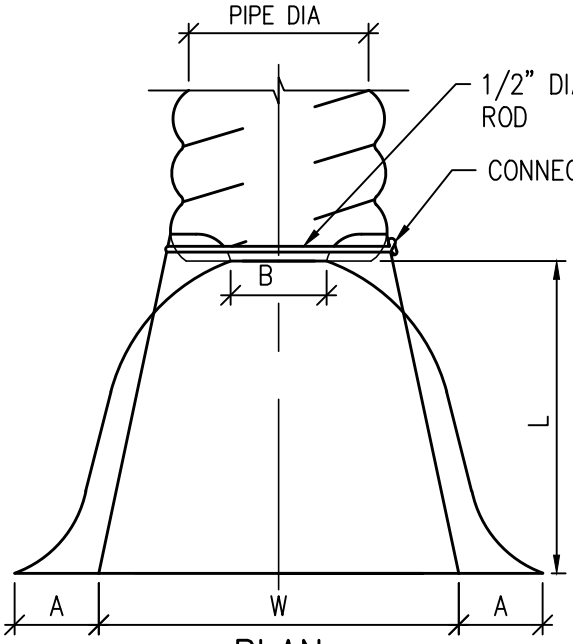
CMP/PVC/HDPE PIPE (SEE PLANS FOR MATERIAL)

NOTES:

1. IF UNSTABLE MATERIALS ARE FOUND IN TRENCH, OVEREXCAVATED PER SPECIFICATIONS OR AS REQUIRED.
2. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES.
3. MINIMUM COVER IS 18" BELOW FINISHED GRADE.

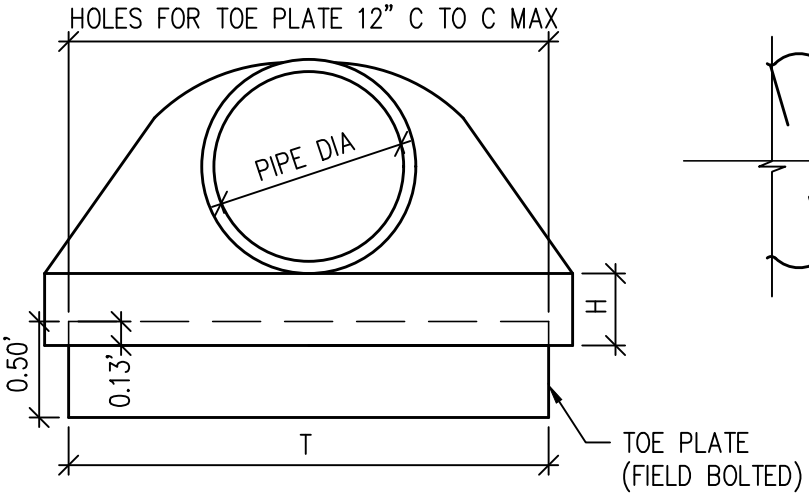
SCALE: NTS

MEAD COLORADO	TOWN OF MEAD STANDARD DESIGN CRITERIA	D6.03
	STORM SEWER BEDDING DETAIL	DATE: 04/2021

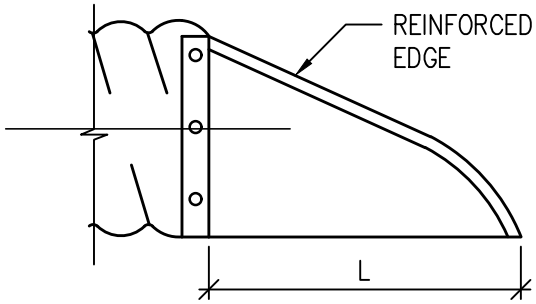


PLAN

PIPE DIA	GAUGE	A	B	H	L	W	T
6"	18	4"	1"	3"	8"	12"	20"
8"	18	5"	5"	4"	14"	16"	27"
10"	18	7"	6"	6"	14"	20"	35"
12"	16	6"	6"	6"	21"	24"	36"
15"	16	7"	8"	6"	26"	30"	44"
18"	16	8"	10"	6"	31"	36"	52"
21"	16	9"	12"	6"	36"	42"	60"
24"	16	10"	13"	6"	41	48"	68"



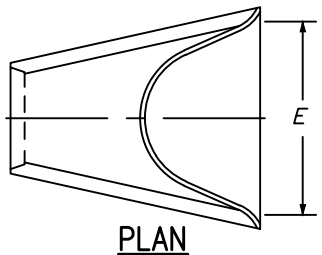
ELEVATION



PROFILE

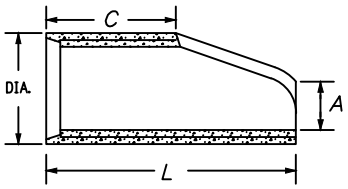
SCALE: NTS

MEAD COLORADO	TOWN OF MEAD STANDARD DESIGN CRITERIA	D6.04A
	CMP TYPE 1 FLARED END SECTION	DATE: 04/2021

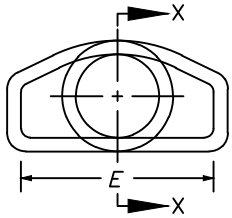


PLAN

PIPE I.D.	DIMENSIONS			
	A	C	L	E
	IN.			
18	10	48	78	36
24 30 36	10 14 18	48 36 36	78 96 96	48 60 72
42 48 54	24 28 30	36 24 36	96 96 96	78 84 90
60 72	36 34	36 20	96 96	96 108

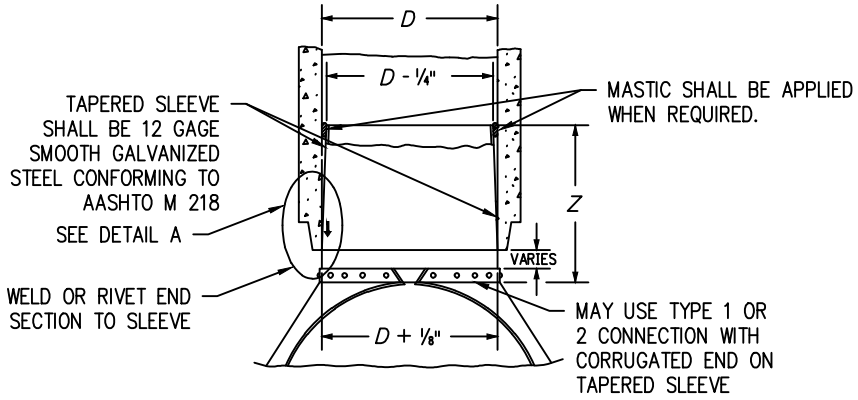


SECTION X–X



END VIEW

END SECTION FOR REINFORCED CONCRETE CIRCULAR PIPE



D	Z (MIN.)
IN.	
18 - 24	12
30 AND 36	16
42 AND LARGER	24

STEEL END SECTION FOR CONCRETE CIRCULAR PIPE
(ALTERNATIVE FOR CONCRETE END SECTION)

NOTES:

METAL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

SCALE: NTS

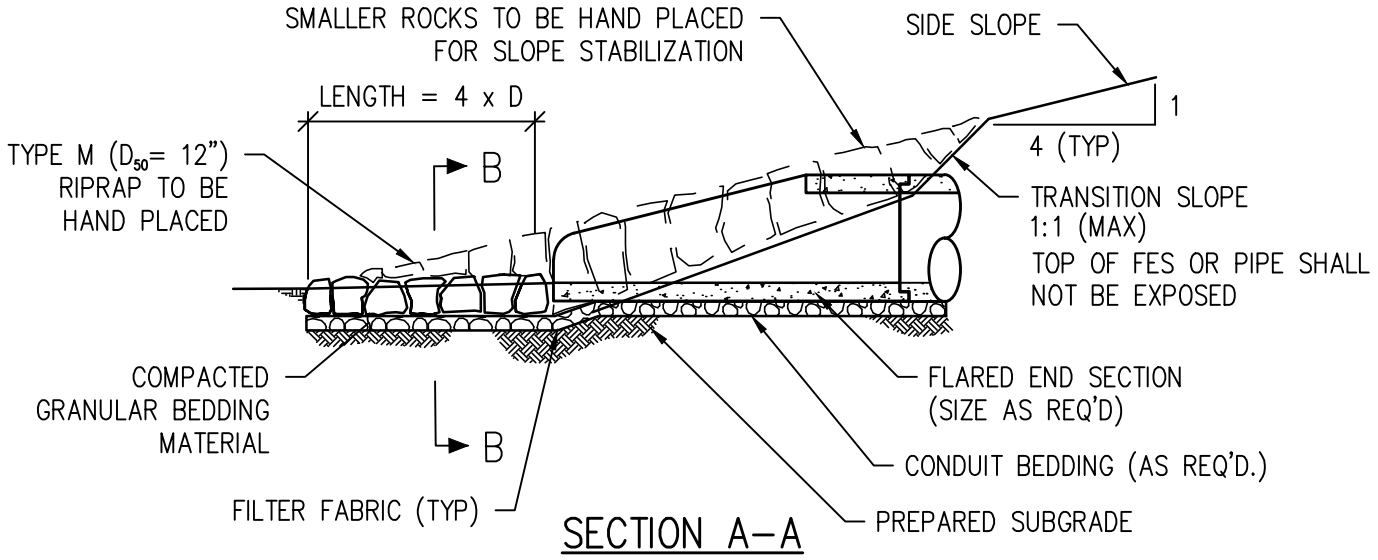
MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

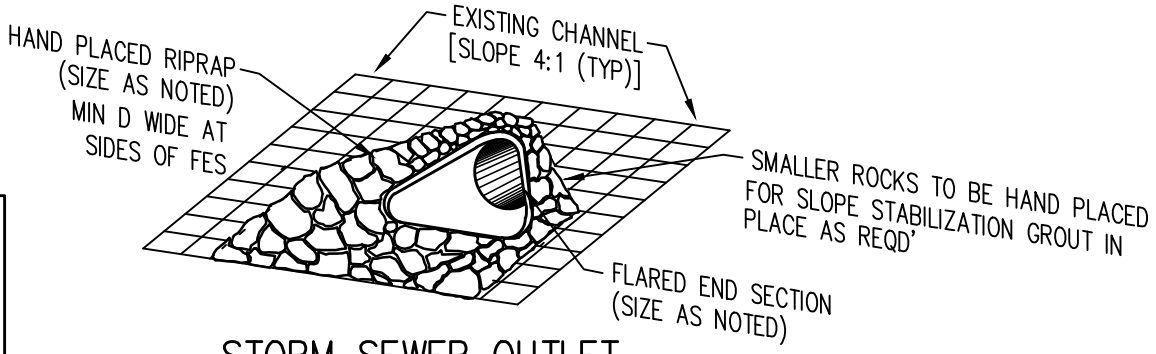
RCP FLARED END SECTION

D6.04B

DATE: 04/2021



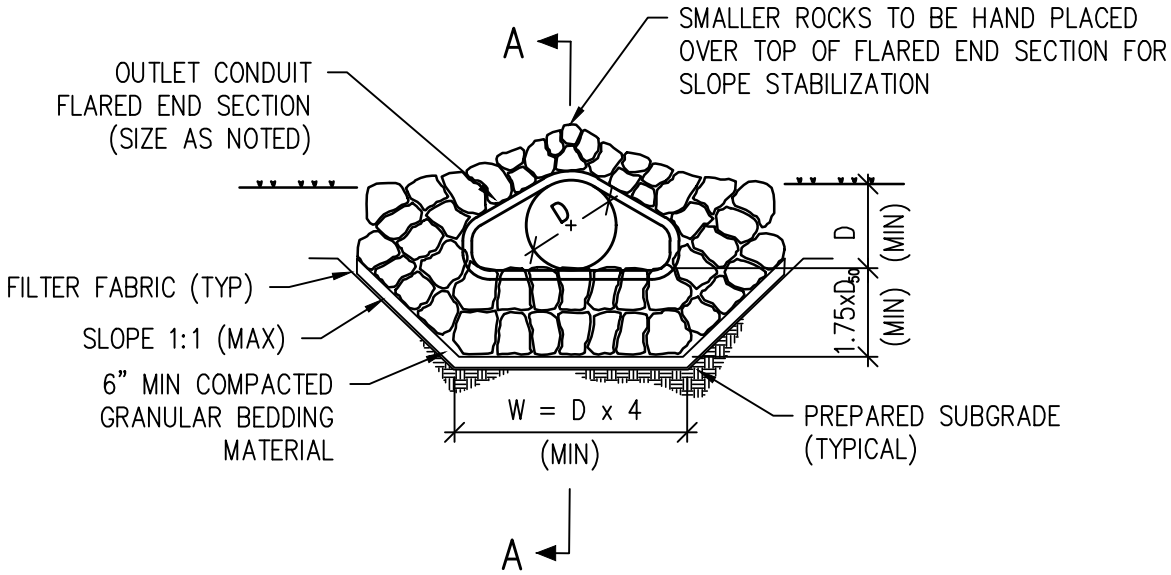
SECTION A–A



STORM SEWER OUTLET
ISOMETRIC VIEW

RIPRAP SIZING

TYPE VL	D50=6"
TYPE L	D50=9"
TYPE M	D50=12"
TYPE H	D50=18"
TYPE VH	D50=24"



SECTION B–B

SCALE: NTS

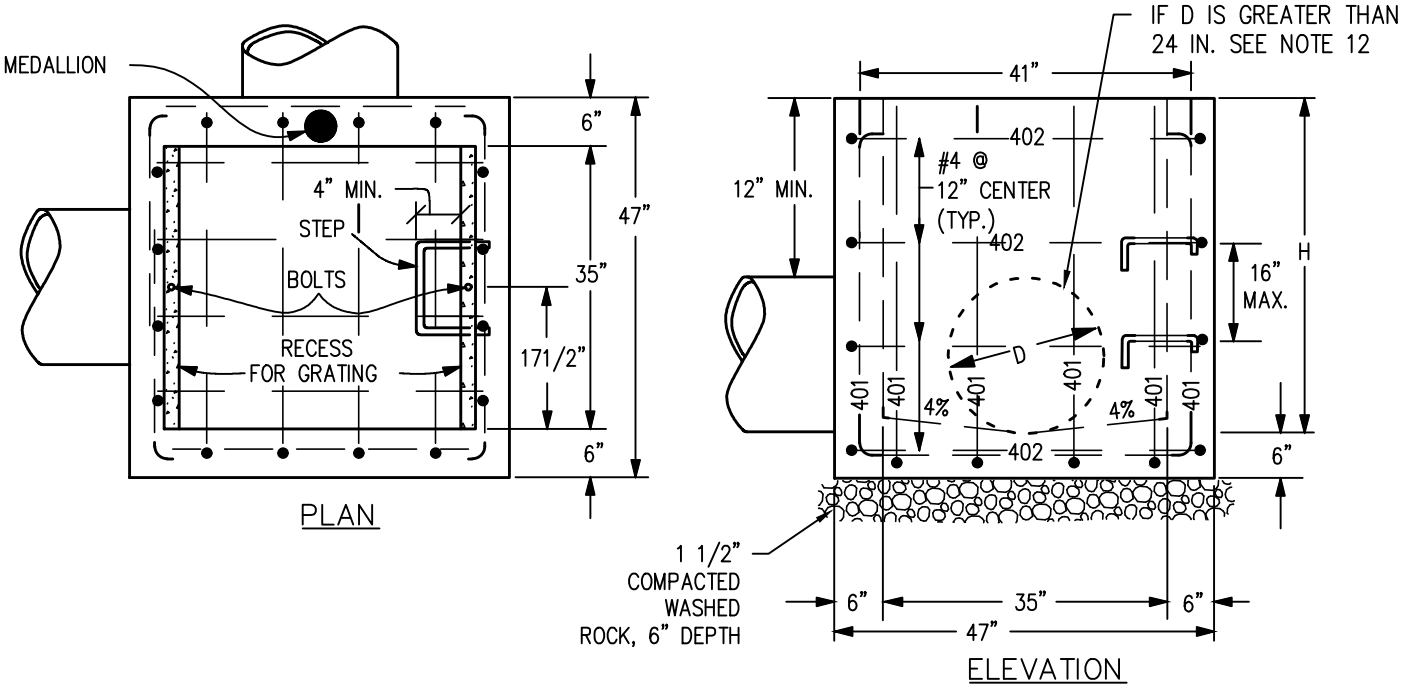
MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

RIP RAP FLARED END SECTION

D6.05

DATE: 04/2021



NOTES:

1. INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
2. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
3. REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4, AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE. CUT OR BEND AROUND PIPES AS REQUIRED.
4. CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH CDOT SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 – W1.4 X W1.4 OR 6 X 6 – W2.1 X W2.1.
5. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH CDOT SUBSECTION 712.06.
6. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
7. CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
8. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT. – 6 IN., AND SHALL CONFORM TO AASHTO M 199.
9. ALL INLETS SHALL HAVE A 4 IN. DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.
10. SEE PLANS FOR SIZE AND LOCATION OF PIPE.
11. FOR FULL DETAIL INCLUDING BAR LIST, DIMENSIONS AND QTY. TABLE, SEE CDOT DETAIL M-604-10
12. ALL CONNECTED PIPES WITH A DIAMETER (D) GREATER THAN 24" AND/OR ENTERING AT AN ANGLE GREATER THAN 80° A CUSTOM CONC BOX MUST BE CONSTRUCTED. CONTRACTOR TO COORDINATE BOX DIMENSIONS AND SPECS WITH MANUFACTURER.

SCALE: NTS

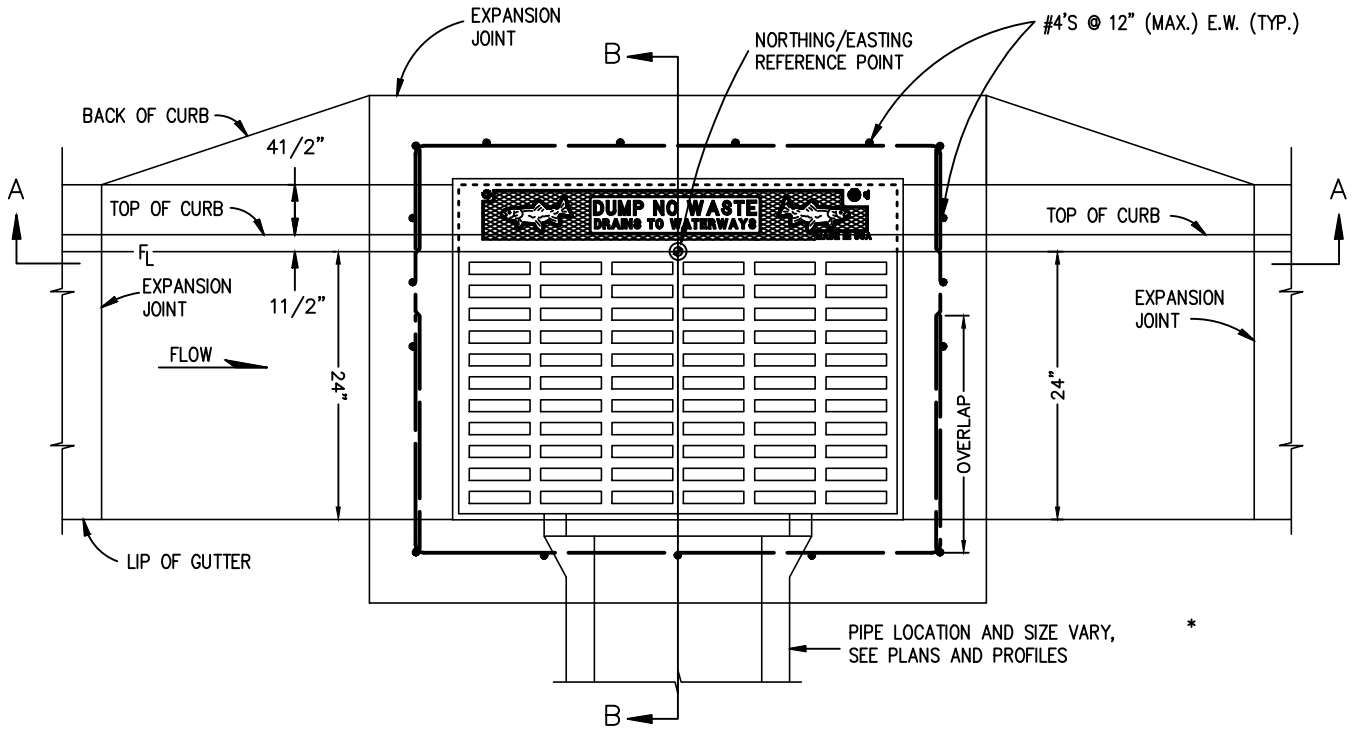
MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

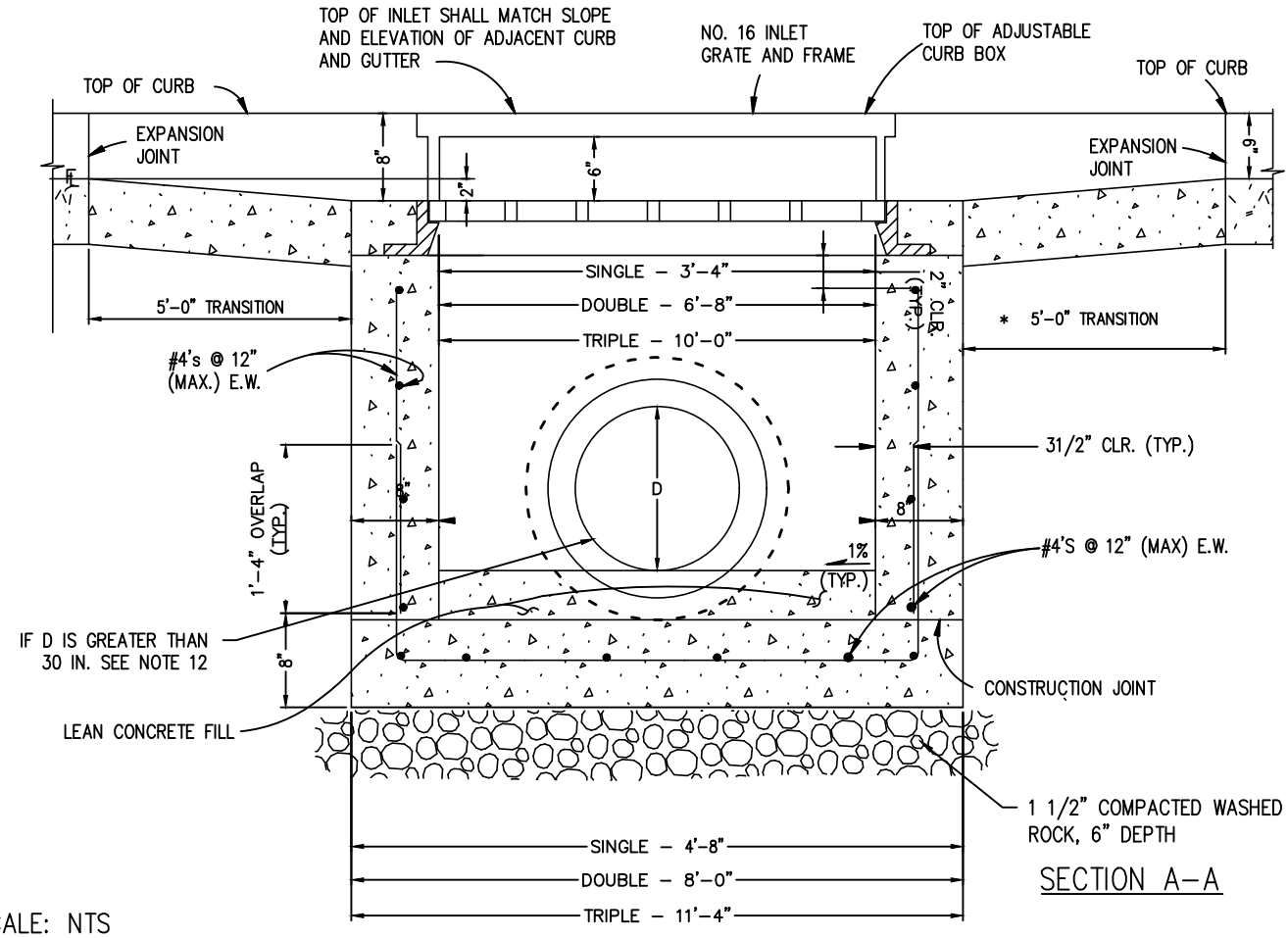
TYPE C INLET

D6.06

DATE: 04/2021



PLAN VIEW



SECTION A–A

SCALE: NTS

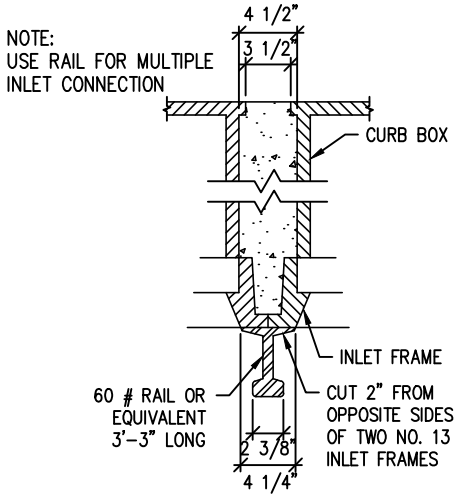
MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

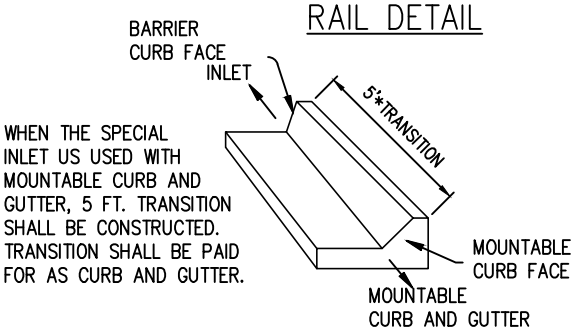
COMBINATION INLET (1 OF 2)

D6.07A

DATE: 04/2021



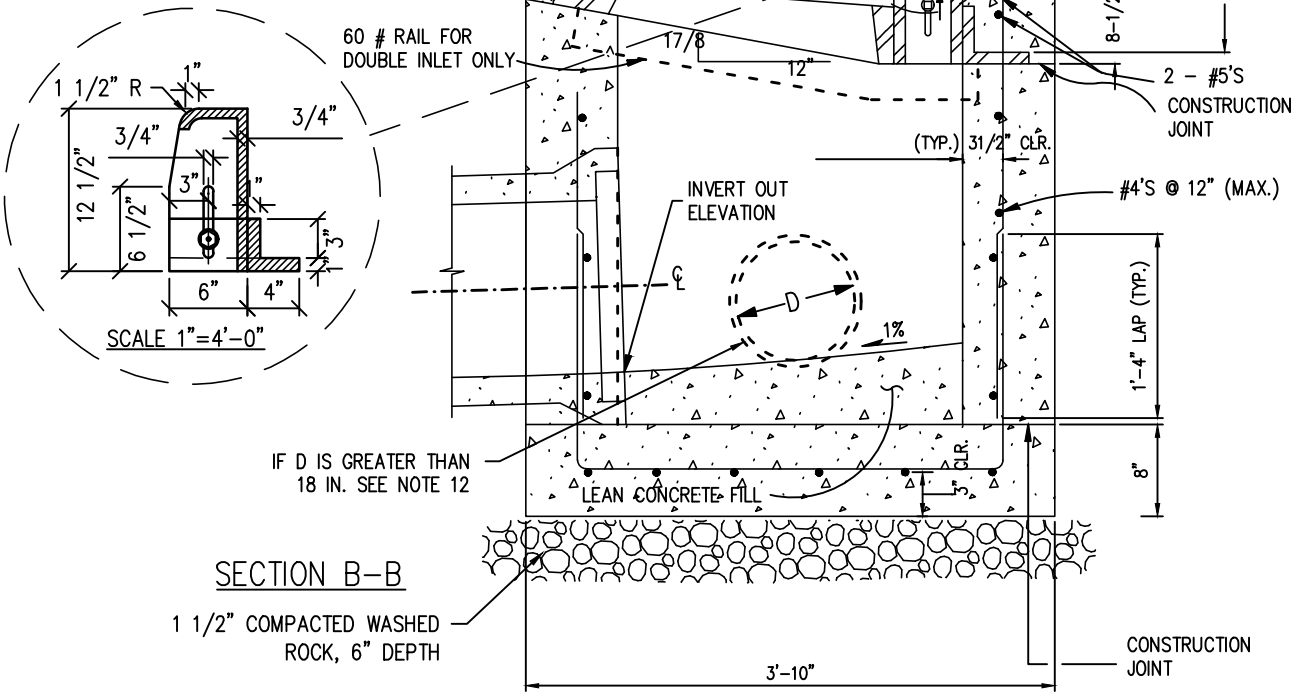
RAIL DETAIL



NOTES:

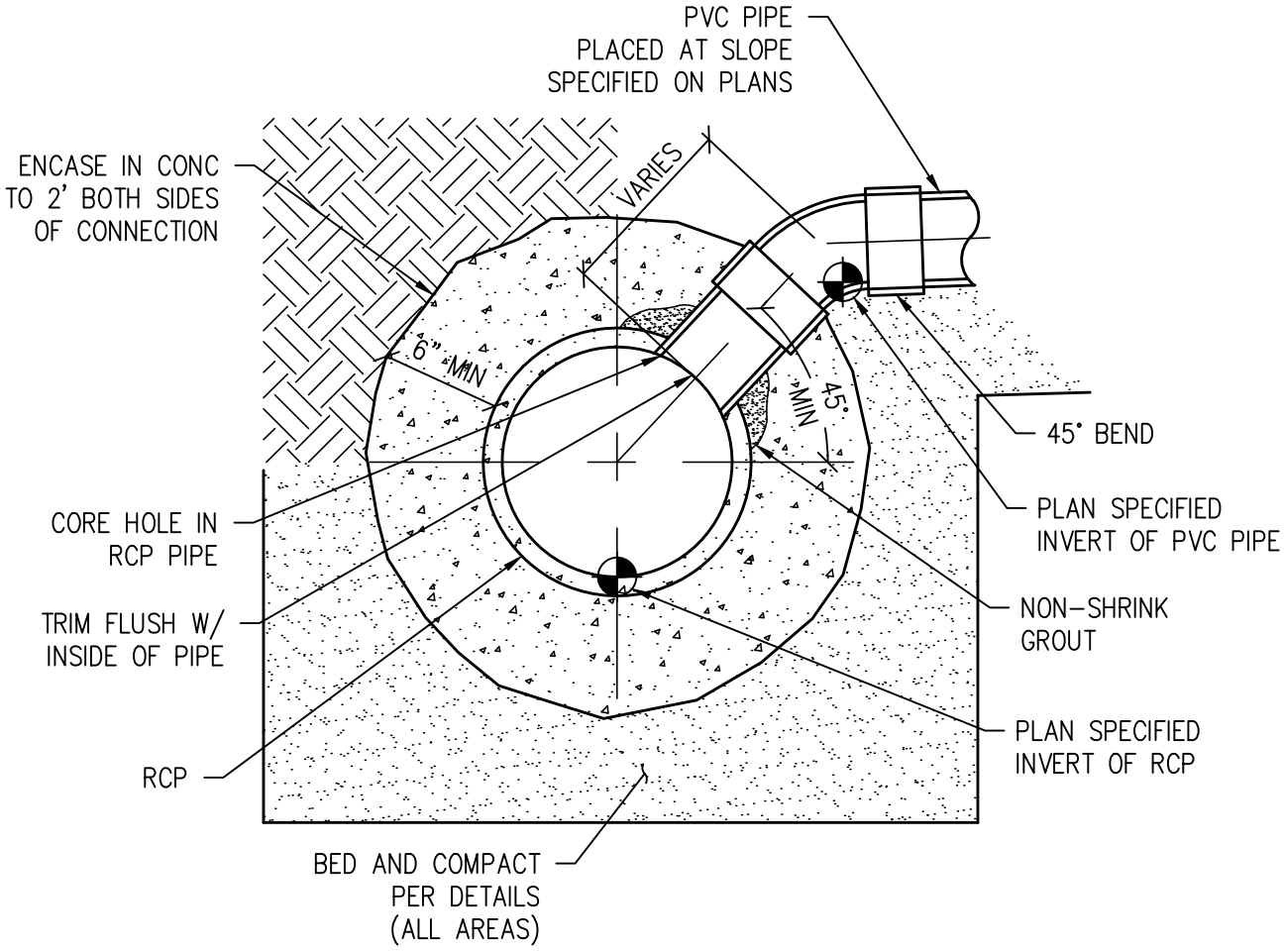
1. ALL CASTING SHALL CONFORM TO ASTM A-48(C1 35b) WITH A MINIMUM STRENGTH OF 35 ksi.
2. ALL CASTINGS SHALL BE HEAVY DUTY, AND CAPABLE OF WITHSTANDING AASHTO H20 LOADING.
3. FLOOR SLOPE MAY BE POURED MONOLITHIC WITH BASE.
4. ALL REINFORCING STEEL SHALL BE ASTM, A-615, GRADE 60 DEFORMED BARS. DIAMETER OF BEND MEASURED ON THE INSIDE OF THE BAR SHALL BE A MINIMUM OF 6 BAR DIAMETER.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS APPLICABLETO THE PROJECT.
6. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 4000 PSI.
7. SUBGRADE SHALL HAVE A GRADATION EQUAL TO CLASS B BEDDING COMPACTED TO 100% MAXIMUM DRY DENSITY, AASHTO T-99.
8. NO FORMWORK SHALL REMAIN INSIDE STRUCTURE WHEN COMPLETE.
9. INLET WALLS SHALL BE FORMED BOTH INSIDE AND OUTSIDE. CASTING OF SIDEWALLS AGAINST EARTH IS NOT PERMITTED.
10. LEAN CONCRETE FILL TO BE f' = 2000 PSI.
11. ALL CONNECTED PIPES WITH A DIAMETER (D) GREATER THAN 30" FRONT AND 18" SIDE AND/OR ENTERING AT AN ANGLE GREATER THAN 80° A CUSTOM CONC BOX MUST BE CONSTRUCTED. CONTRACTOR TO COORDINATE BOX DIMENSIONS AND SPECS WITH MANUFACTURER.

TRANSITION CURB



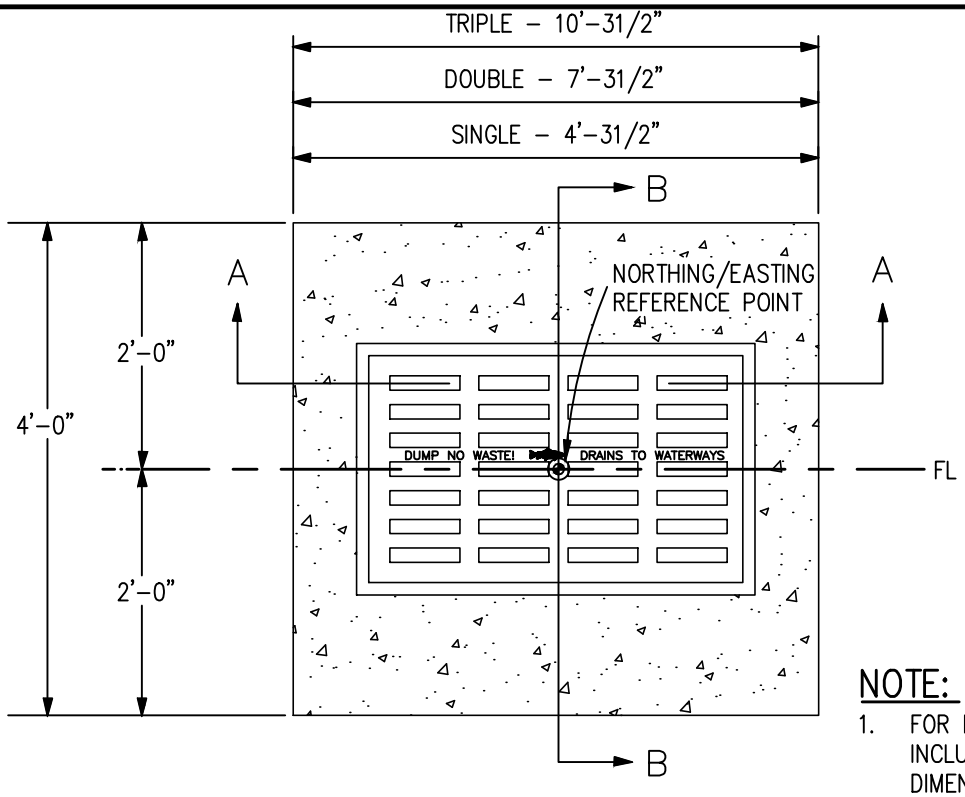
SCALE: NTS

MEAD COLORADO	TOWN OF MEAD STANDARD DESIGN CRITERIA	D6.07B
	COMBINATION INLET (2 OF 2)	DATE: 04/2021



SCALE: NTS

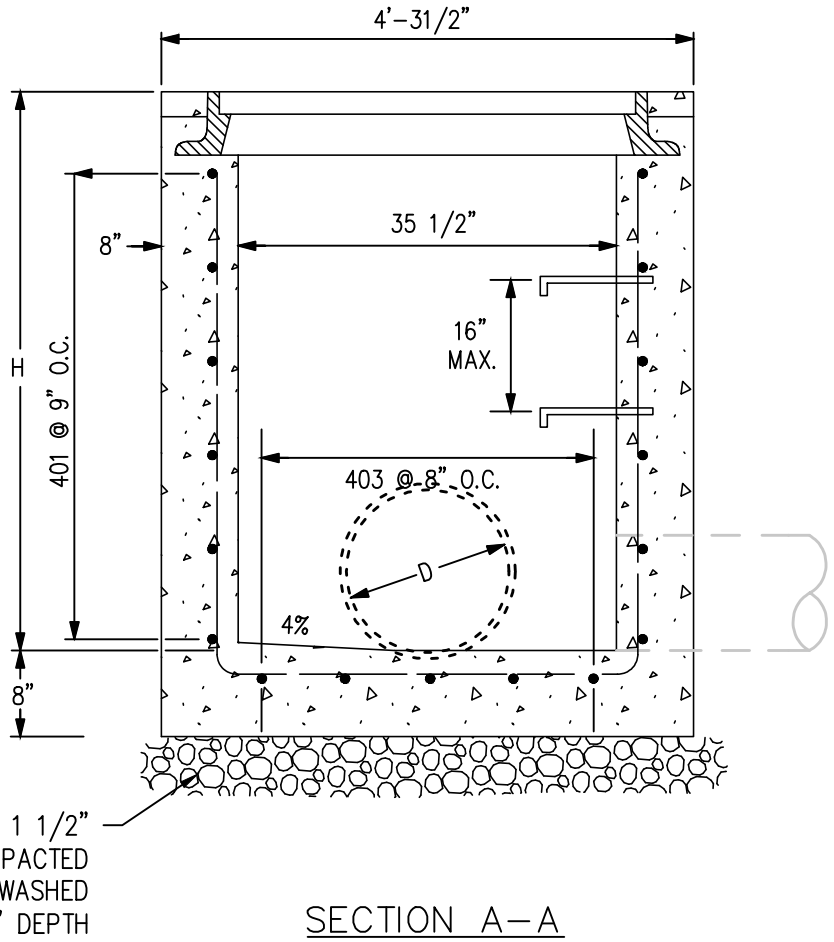
MEAD COLORADO	TOWN OF MEAD STANDARD DESIGN CRITERIA	D6.08
	DIRECT CONNECTION RCP TO PVC CONNECTION	DATE: 04/2021



PLAN VIEW

NOTE:

1. FOR FULL DETAIL INCLUDING BAR LIST, DIMENSIONS AND QTY. TABLE, SEE CDOT DETAILS



SECTION A–A

SCALE: NTS

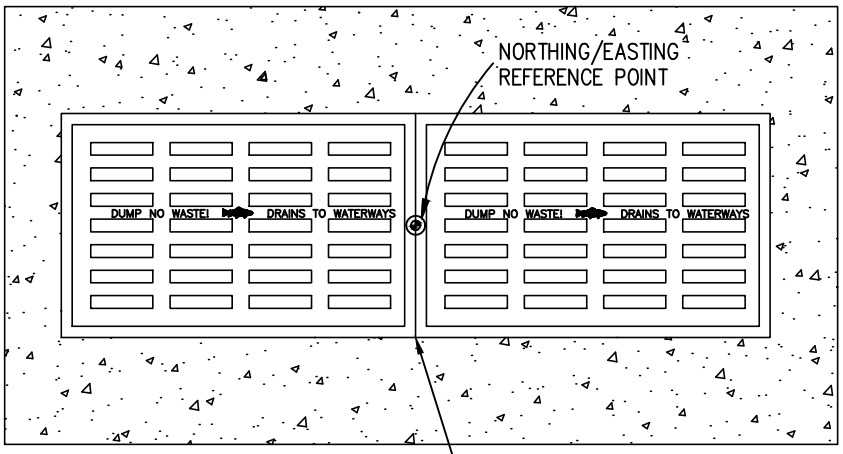
MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

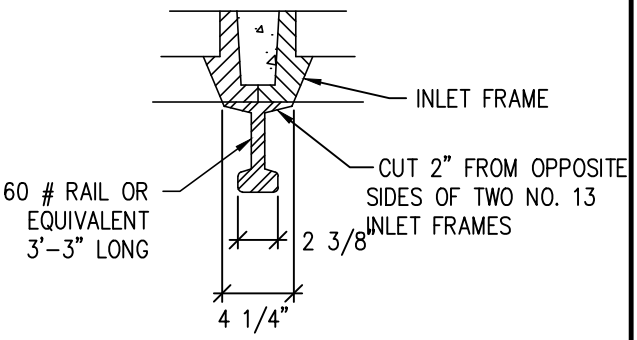
VALLEY INLET (CDOT TYPE 13) (1 OF 2)

D6.09A

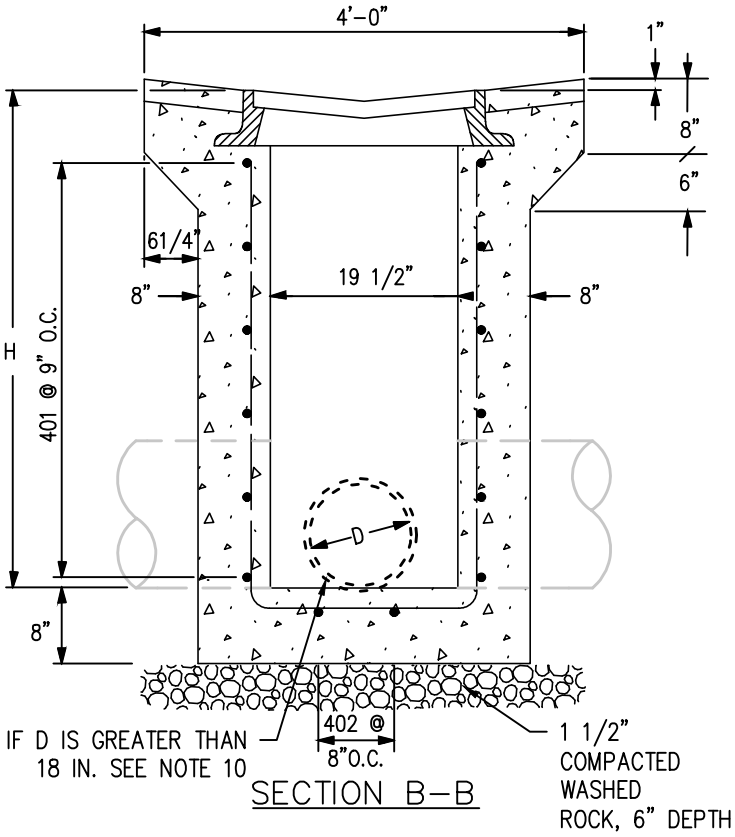
DATE: 04/2021



PLAN VIEW



RAIL DETAIL



SECTION B-B

NOTES:

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
3. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4 IN.
4. REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
5. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT.-6 IN. AND SHALL CONFORM TO AASHTO M 199.
6. ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND HS 20 LOADING.
7. STATION POINT IS AT THE CENTER OF THE INLET.
8. GRATE SHALL HAVE "DUMP NO WASTE DRAINS TO STREAM" MESSAGE CAST ON SURFACE.
9. FOR FULL DETAIL INCLUDING BAR LIST, DIMENSIONS AND QTY. TABLE, SEE CDOT DETAIL M-604-13
10. ALL CONNECTED PIPES WITH A DIAMETER (D) GREATER THAN 30" FRONT AND 18" SIDE AND/OR ENTERING AT AN ANGLE GREATER THAN 80° A CUSTOM CONC BOX MUST BE CONSTRUCTED. CONTRACTOR TO COORDINATE BOX DIMENSIONS AND SPECS WITH MANUFACTURER.
11. FOR FULL DETAIL INCLUDING BAR LIST, DIMENSIONS AND QTY. TABLE, SEE CDOT DETAILS

SCALE: NTS

MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

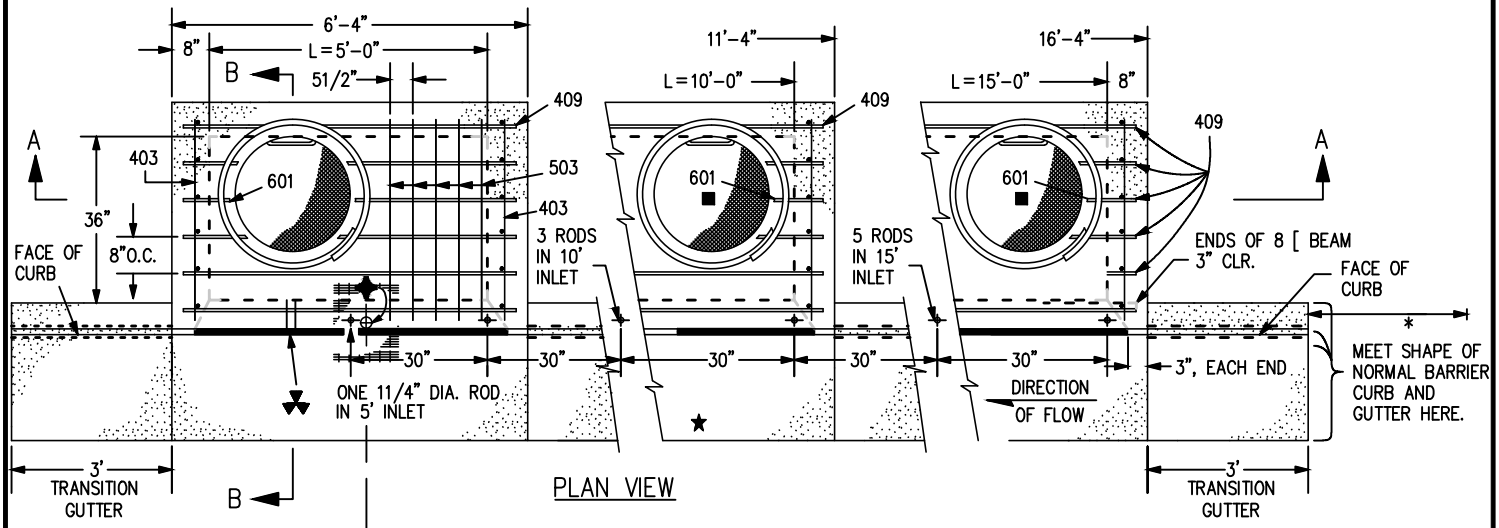
VALLEY INLET (CDOT TYPE 13) (2 OF 2)

D6.09B

DATE: 04/2021

★ FOR LENGTH (L) 10 FT. OR MORE, PROVIDE MAINTENANCE ACCESS AT BOTH ENDS WITH AN ADDITIONAL MANHOLE RING AND COVER. CUT REINFORCEMENT BAR ACCORDINGLY.

✦ NORHTING/EASTING REFERENCE POINT AT MIDPOINT OF INLET ALONG FLOWLINE



NOTES:

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 IN. THICK.
3. INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
4. CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING. 5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4 IN. CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEYOND THE TRANSITION GUTTER.
6. REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
7. DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
8. MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
9. SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK. QUANTITIES INCLUDE VOLUMES OCCUPIED BY PIPES.
10. STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
11. ALL MANHOLE COVERS SHALL BE CAST WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE AND A FISH SYMBOL. THE SURFACE OF THE MANHOLE COVER SHALL HAVE A NON-SLIP PATTERN.
12. FOR FULL DETAIL INCLUDING BAR LIST AND DIMENSION TABLE, SEE CDOT DETAIL M-604-12 SHEETS 1 AND 2

SCALE: NTS

MEAD COLORADO

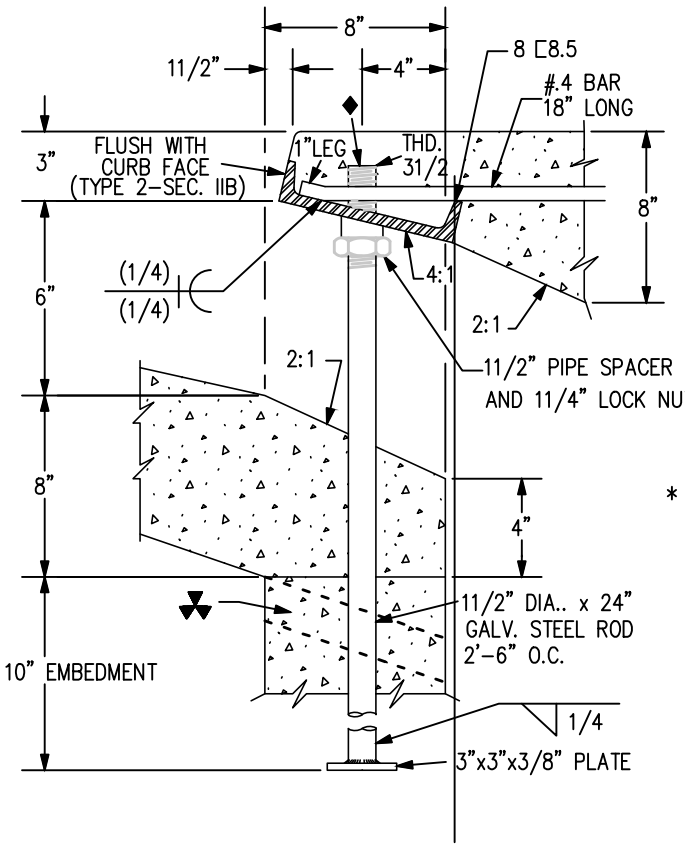
TOWN OF MEAD STANDARD DESIGN CRITERIA

TYPE R CURB INLET (1 OF 3)

D6.10A

DATE: 04/2021

SEE CHANNEL LAYOUT ON SHEET 2.

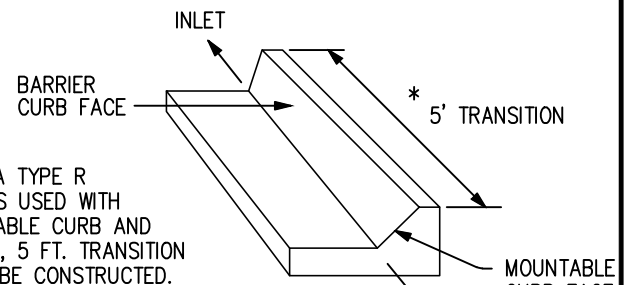


CURB FACE ASSEMBLY

◆PLACE ENTIRE ASSEMBLY BEFORE POURING CONCRETE.

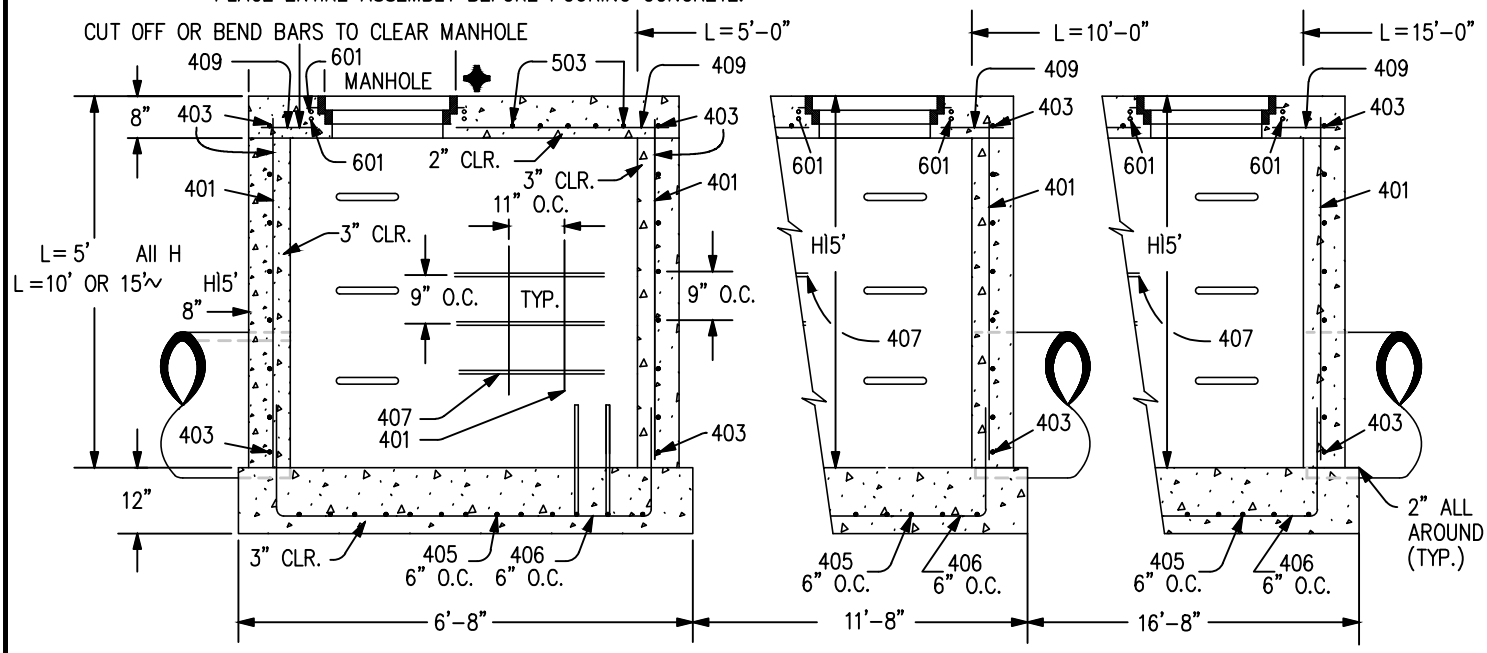
NOTE:

1. FOR FULL DETAIL INCLUDING BAR LIST, DIMENSIONS AND QTY. TABLE, SEE CDOT DETAILS



* WHEN A TYPE R INLET IS USED WITH MOUNTABLE CURB AND GUTTER, 5 FT. TRANSITION SHALL BE CONSTRUCTED. TRANSITION SHALL BE PAID FOR AS CURB AND GUTTER.

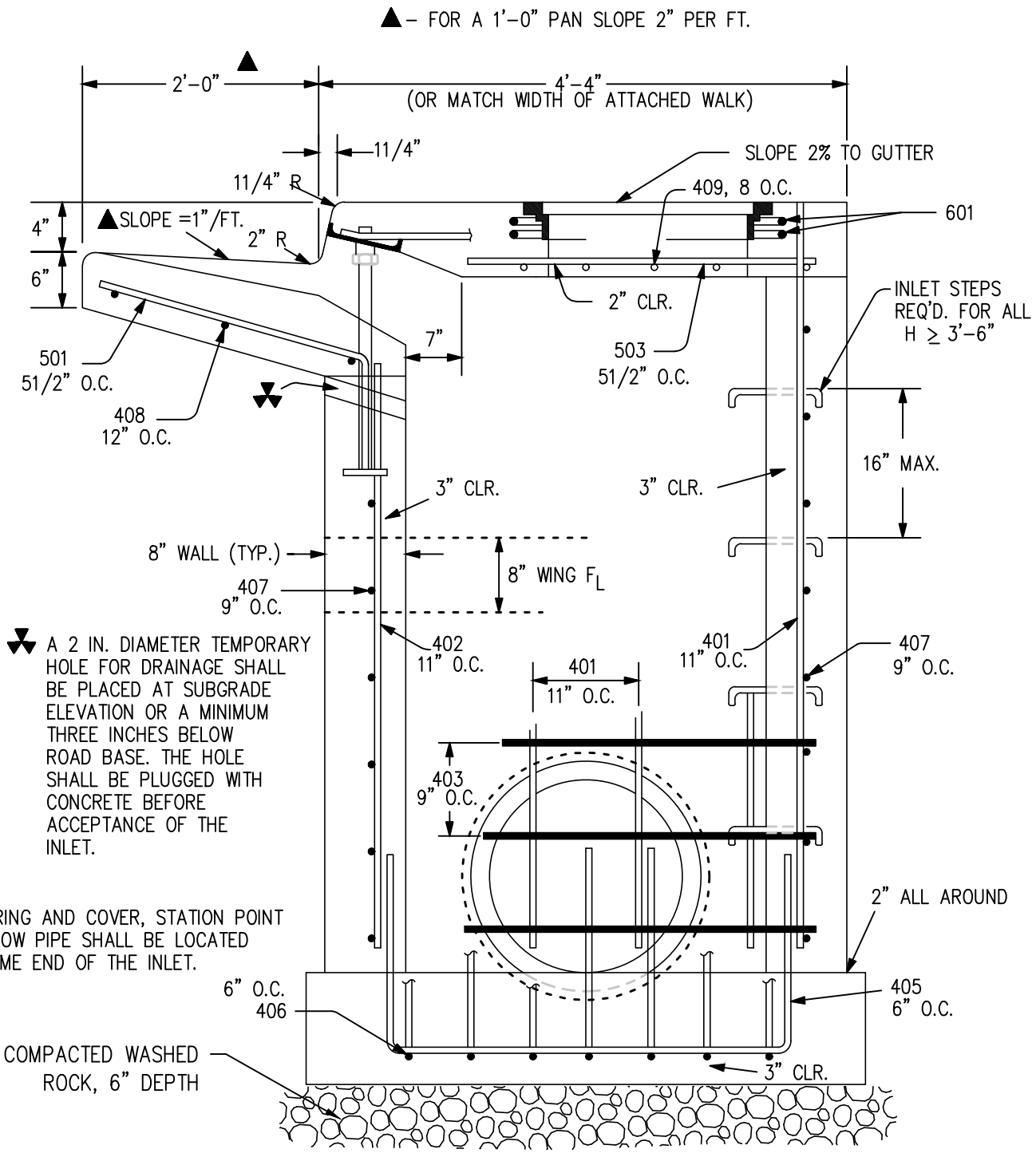
TRANSITION CURB



SECTION A-A

SCALE: NTS

MEAD COLORADO	TOWN OF MEAD STANDARD DESIGN CRITERIA	D6.10B
	TYPE R CURB INLET (2 OF 3)	DATE: 04/2021



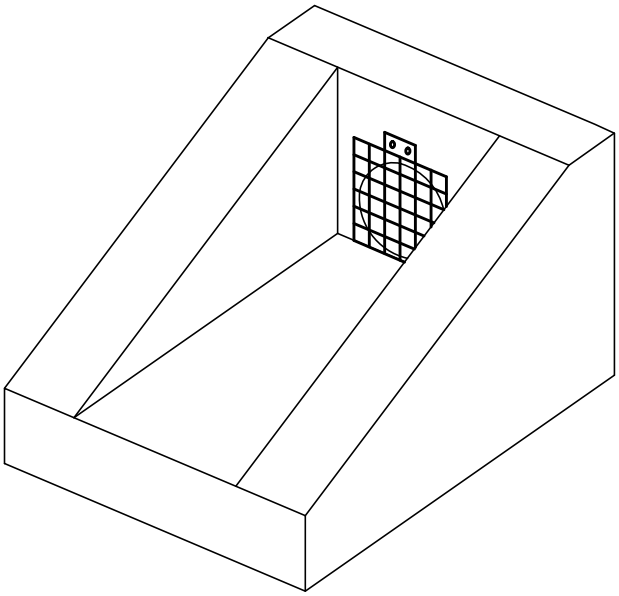
NOTE:

1. FOR FULL DETAIL INCLUDING BAR LIST, DIMENSIONS AND QTY. TABLE, SEE CDOT DETAILS

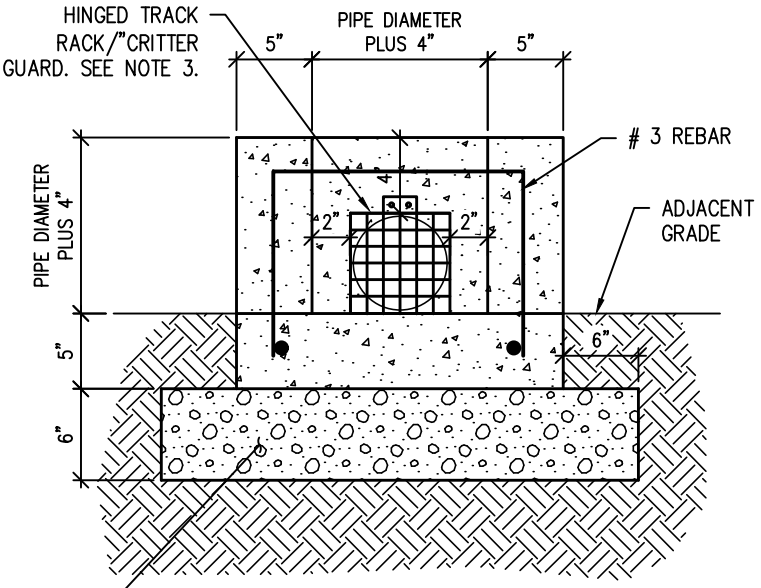
SECTION B–B – END VIEW

SCALE: NTS

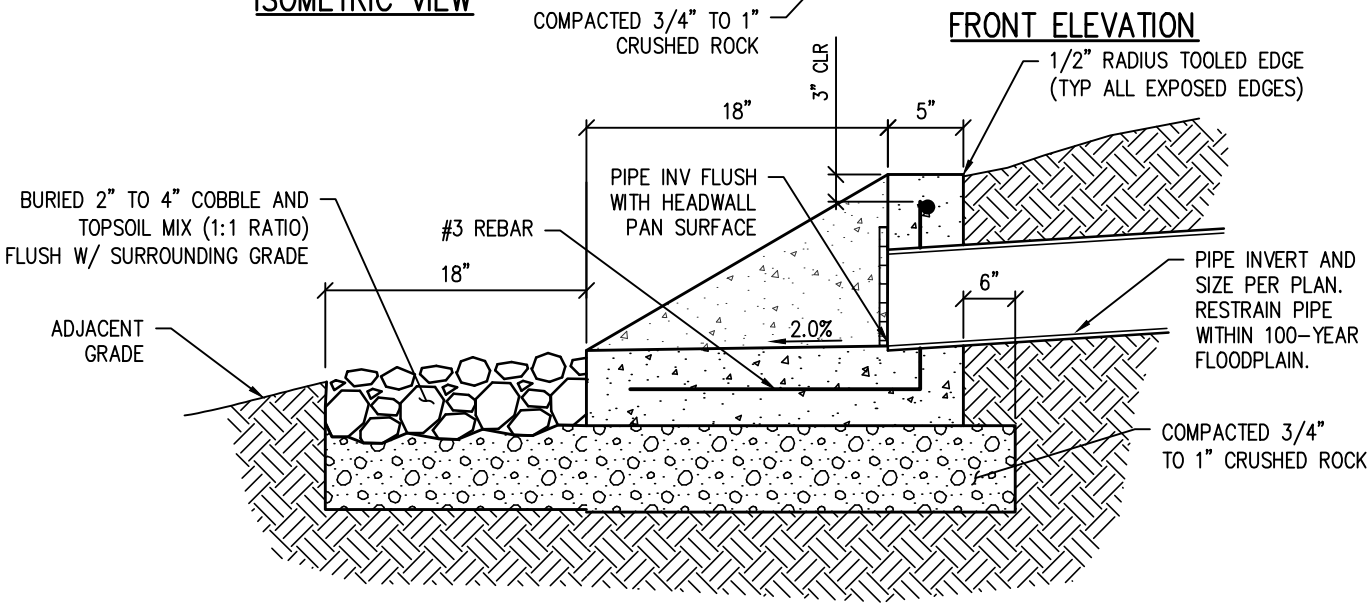
MEAD COLORADO	TOWN OF MEAD STANDARD DESIGN CRITERIA	D6.10C
	TYPE R CURB INLET (3 OF 3)	DATE: 04/2021



ISOMETRIC VIEW



FRONT ELEVATION



NOTES:

1. ALL CONCRETE AND BEDDING PER SPECIFICATIONS
2. INSTALL REMOVABLE, GALVANIZED STEEL, HINGED TRASH RACK WITH 2" MAX OPENINGS.
3. TRASH GUARD TO BE APPROVED BY TOWN

SCALE: NTS

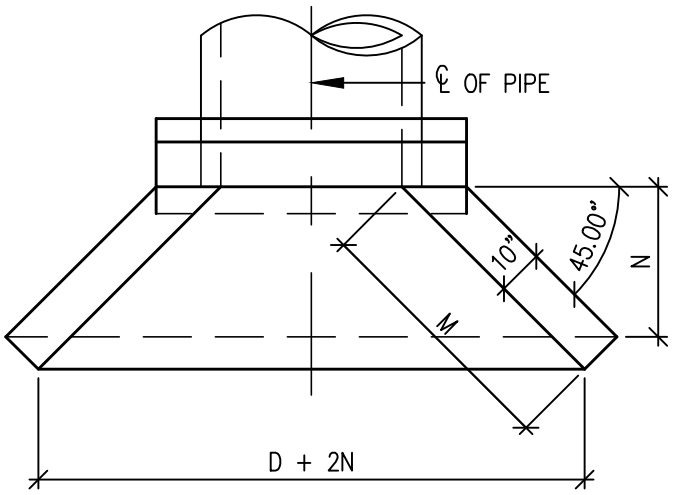
MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

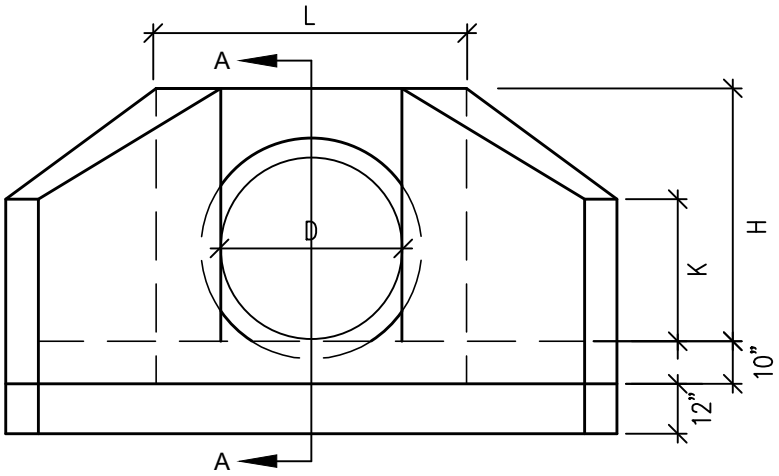
SMALL PIPE HEADWALL

D6.11

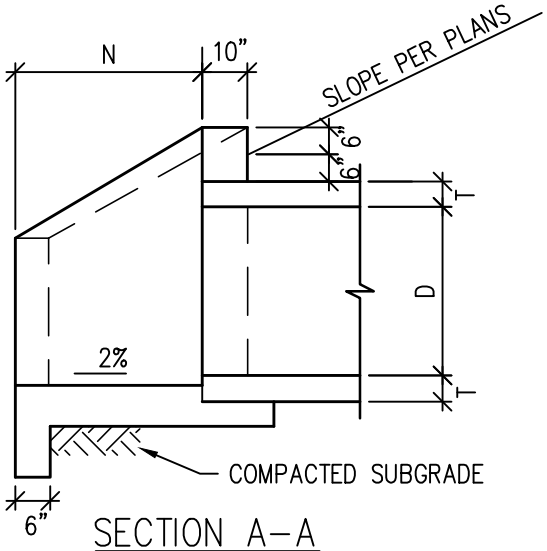
DATE: 04/2021



PLAN



ELEVATION



SECTION A–A

DIMENSIONS							
D	AREA SQ FT	T	H	K	L	M	N
15"	1.23	2 1/4"	2'–5 1/4"	1'–5"	3'–7"	1'–9"	1'–3"
18"	1.77	2 1/2"	2'–8 1/2"	1'–7"	3'–10"	2'–1 1/2"	1'–6"
24"	3.14	3"	3'–3"	1'–10 1/2"	4'–4"	2'–10"	2'–0"
30"	4.91	3 1/2"	3'–9 1/2"	2'–2"	4'–10"	3'–6 1/2"	2'–6"
36"	7.07	4"	4'–4"	2'–5 1/2"	5'–4"	4'–3"	3'–0"
42"	9.62	4 1/2"	4'–10 1/2"	2'–9"	5'–10"	4'–1 1/2"	3'–6"

NOTES:

1. CONCRETE SHALL BE CLASS B. CAST–IN–PLACE CONCRETE SHALL CONFORM TO ASTM C478

2. CAST–IN–PLACE CONCRETE WALL EDGES SHALL BE CHAMFERED 3/4".

3. ALL WALLS AND BASE SHALL BE REINFORCED WITH #4'S @ 12" OC EACH WAY. REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE 3" MINIMUM CLEARANCE FROM FACE OF CONCRETE.

4. DIMENSIONS AND MATERIAL REQUIREMENTS VARY DEPENDING ON APPLICATION. FOR COMPLETE DETAILS, MEASUREMENTS, MATERIALS LIST, AND OTHER FACTORS REFER TO THE CURRENT CDOT M&S STANDARDS.

SCALE: NTS

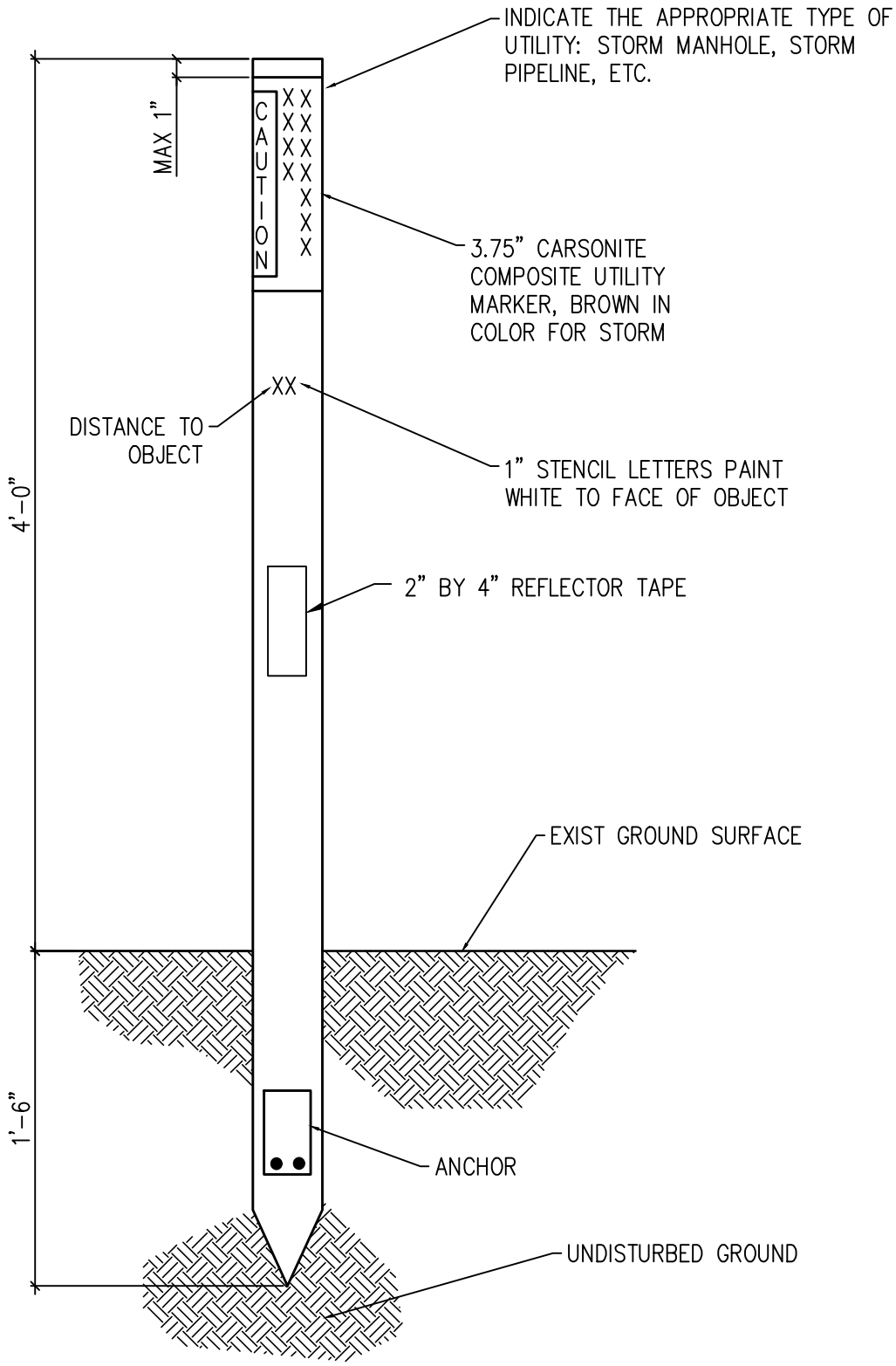
MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

HEADWALL WITH CIRCULAR PIPE

D6.12

DATE: 04/2021



SCALE: NTS

MEAD COLORADO

TOWN OF MEAD STANDARD DESIGN CRITERIA

STORM UTILITY MARKER POST

D6.13

DATE: 04/2021