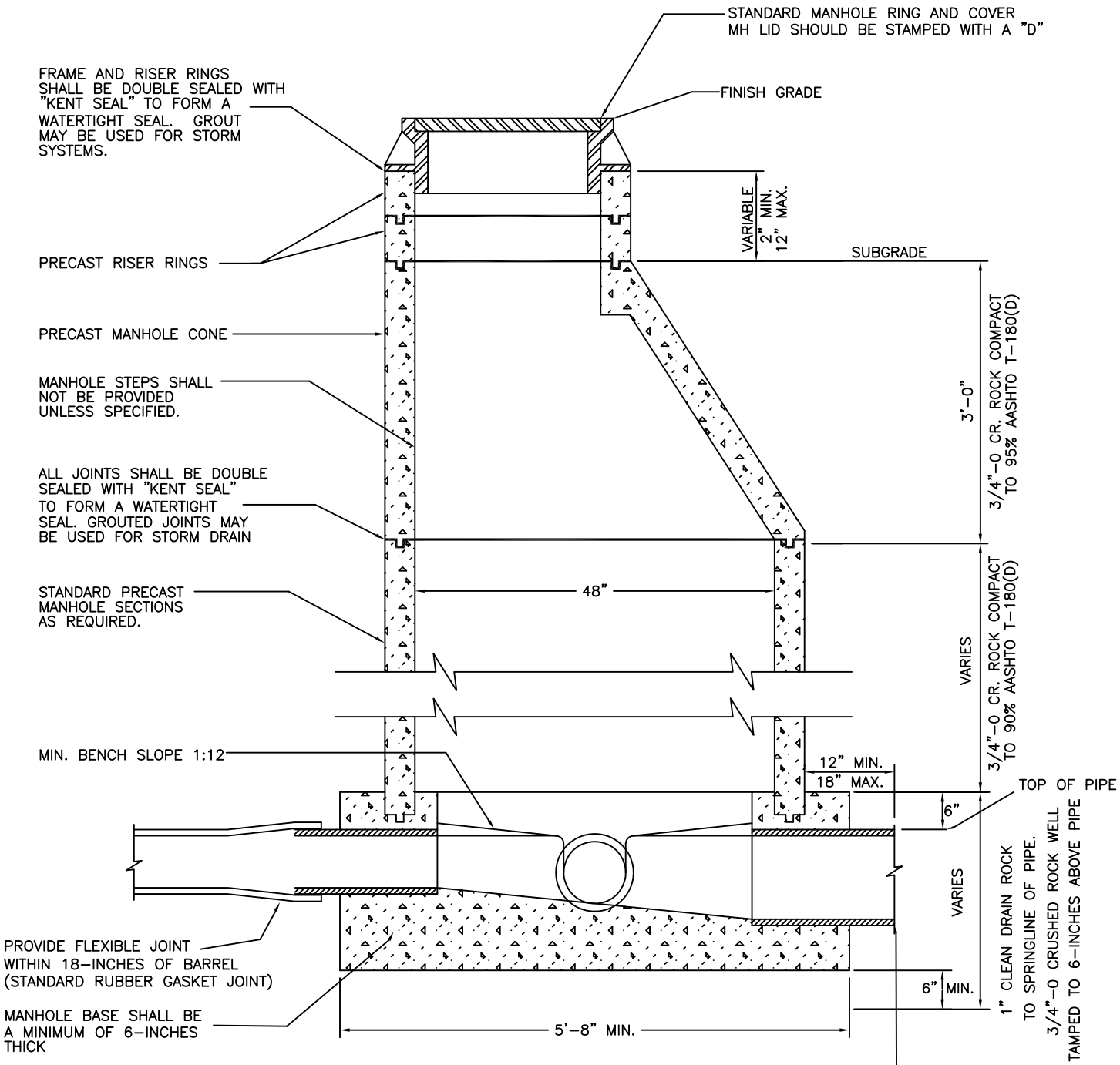


NOTES:

1. STANDARD PRECAST MANHOLE DIAMETER SHALL BE 48".
2. BASES MAY BE PRECAST OR CAST IN PLACE.
3. THIS MANHOLE SECTION SHALL BE USED FOR PIPE SIZES UP TO 24".
4. WHEN CONSTRUCTING A NEW MANHOLE OVER EXISTING P.V.C. STORM SEWER, EXPOSE EXISTING P.V.C. PIPE, SOFTEN ENTIRE CIRCUMFERENCE WITH SOLVENT FOR 2.0' EACH SIDE OF C.L. AND COAT WITH CLEAN SAND.
5. WATERTIGHT PIPE JOINTS REQUIRED FOR ALL PIPE.
6. 2-INCH WEEP HOLES MAYBE REQUIRED ABOVE SUB-GRADE WHERE HIGH GROUND WATER CONDITIONS EXIST.

FILE: CP-SD-1.DWG

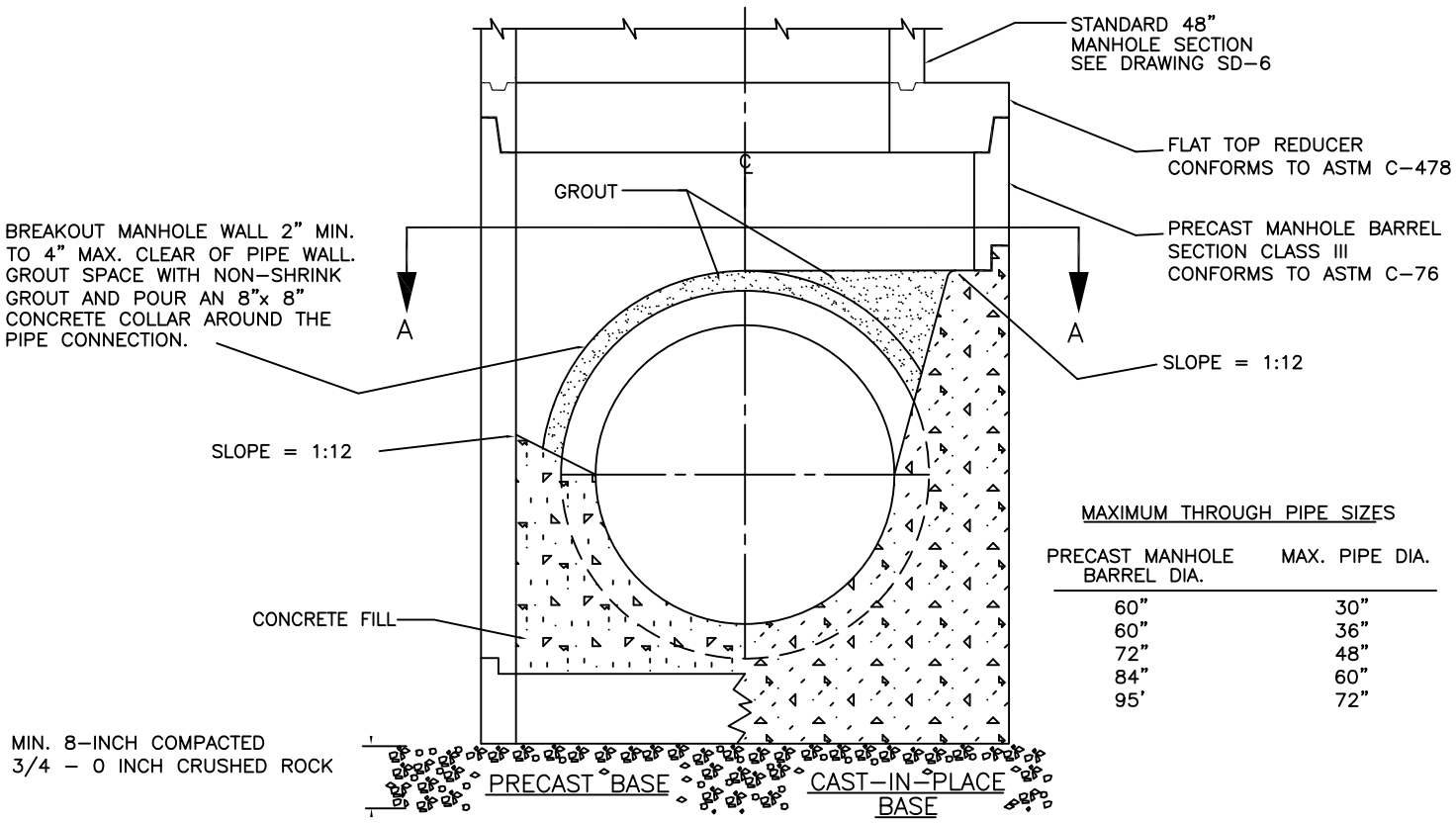
CENTRAL POINT

CITY OF
CENTRAL POINT
PUBLIC WORKS DEPARTMENT

UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

STORM SEWER MANHOLE - SMALL PIPE

CHECKED	DATE	SD-1
APPROVED	DATE	
REVISED	DATE	DRAWING No.

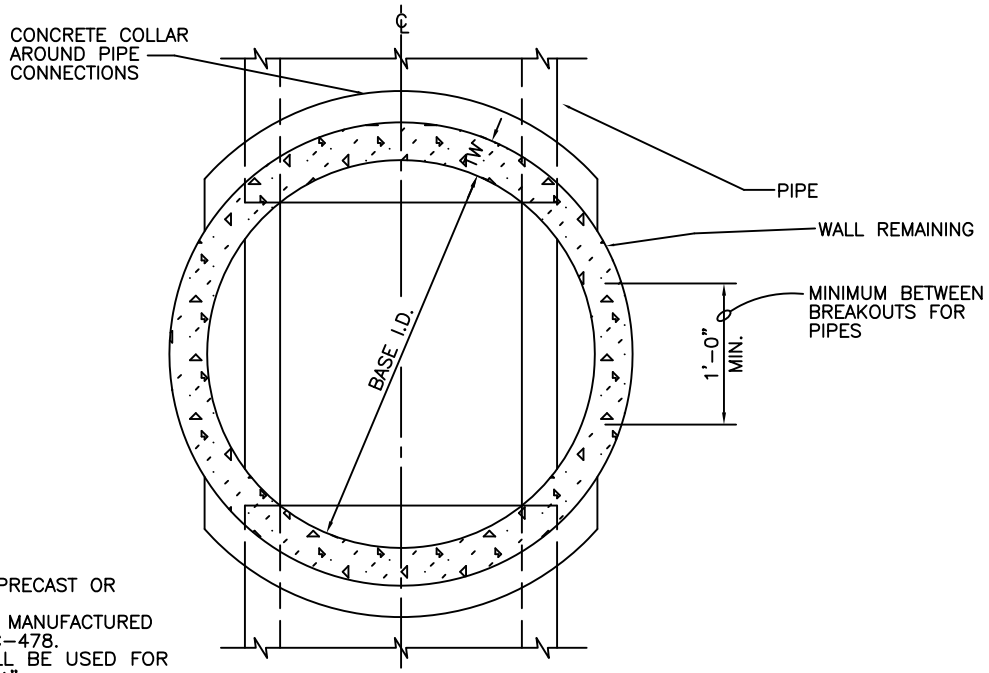


MAXIMUM THROUGH PIPE SIZES

PRECAST MANHOLE BARREL DIA.	MAX. PIPE DIA.
60"	30"
60"	36"
72"	48"
84"	60"
95'	72"

TYPICAL SECTION

NO SCALE



SECTION A-A

NO SCALE

NOTES:

1. MANHOLES MAY HAVE EITHER PRECAST OR CAST-IN-PLACE BASES.
2. MANHOLE SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
3. LARGE MANHOLE BASES SHALL BE USED FOR PIPE SIZES LARGER THAN 24".
4. MINIMUM BASE INSIDE DIAMETER SHALL BE BASED ON THE NUMBER AND SIZE OF THE PIPES ENTERING THE MANHOLE, THE ELEVATION OF THE PIPES, AND THE MINIMUM SPACING BETWEEN THE PIPES.
5. PROVIDE FLEXIBLE JOINT WITHIN 24-INCHES OF MANHOLE BARREL.

FILE: CP-SD-2A.DWG

CITY OF
CENTRAL POINT
PUBLIC WORKS DEPARTMENT

UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

STORM SEWER MANHOLE - LARGE PIPE

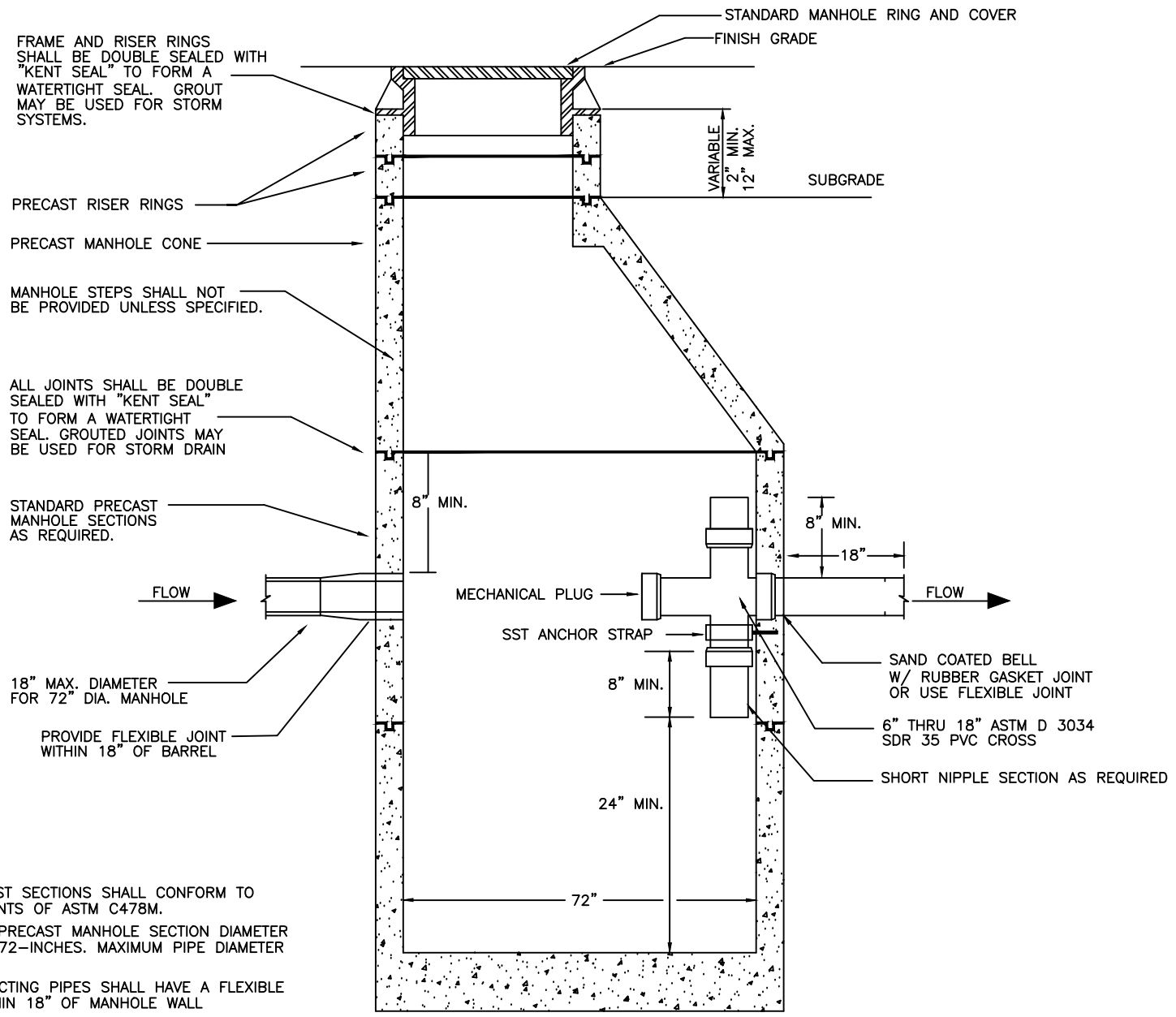
CHECKED	DATE	SD-2A
APPROVED	DATE	
REVISED	DATE	DRAWING No.

CITY OF CENTRAL POINT

PUBLIC WORKS DEPARTMENT

UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION

STORM SEWER MANHOLE WITH SEDIMENT BASIN



NOTES:

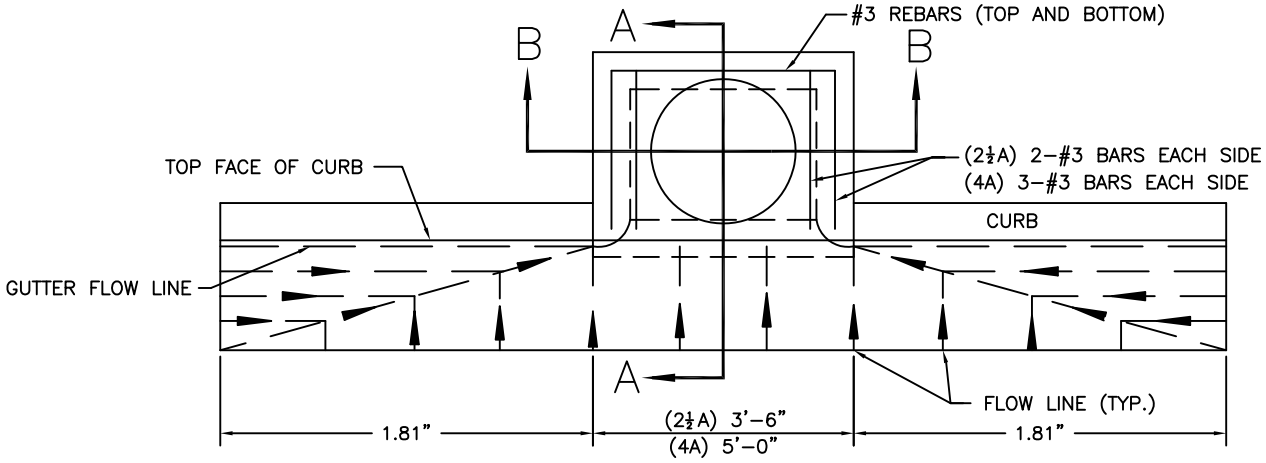
1. ALL PRECAST SECTIONS SHALL CONFORM TO REQUIREMENTS OF ASTM C478M.
2. STANDARD PRECAST MANHOLE SECTION DIAMETER SHALL BE 72–INCHES. MAXIMUM PIPE DIAMETER 18–INCHES
3. ALL CONNECTING PIPES SHALL HAVE A FLEXIBLE JOINT WITHIN 18" OF MANHOLE WALL
4. WATERTIGHT PIPE JOINTS REQUIRED FOR ALL PIPE.
5. 2–INCH WEEP HOLES MAYBE REQUIRED ABOVE SUB–GRADE WHERE HIGH GROUND WATER CONDITIONS EXIST.

STORM SEWER MANHOLE WITH SEDIMENT BASIN

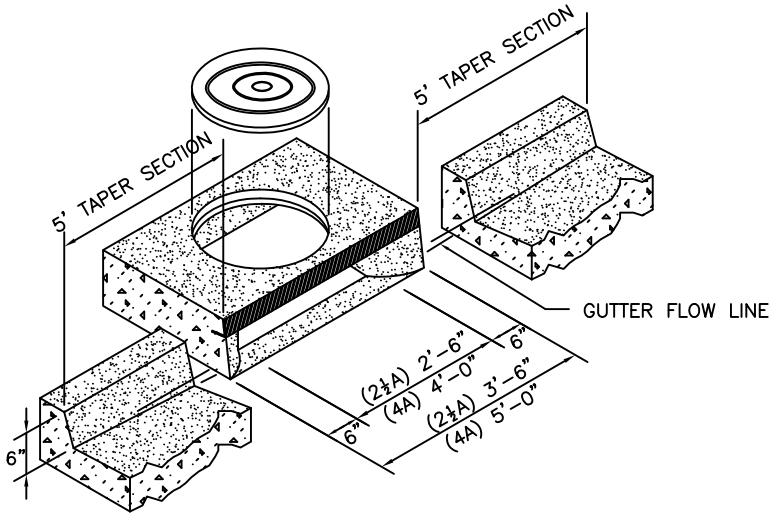
REVISED	APPROVED	CHECKED
DATE	DATE	DATE

DRAWING No. SD-2B

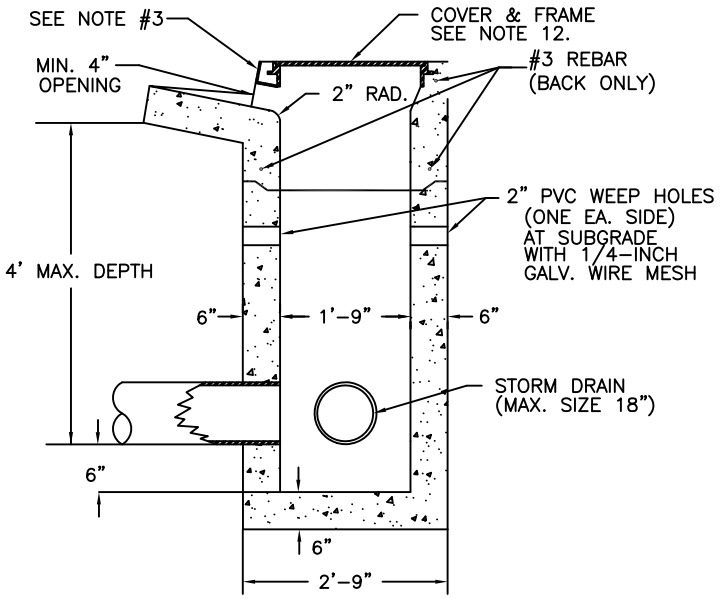
FILE: CP SD–2B.DWG



PLAN VIEW



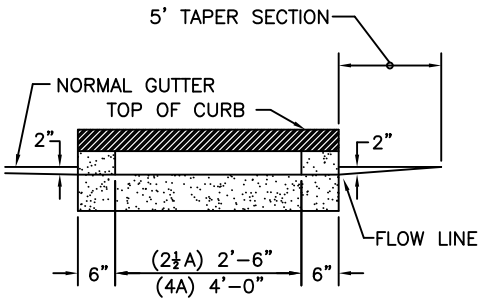
PERSPECTIVE VIEW



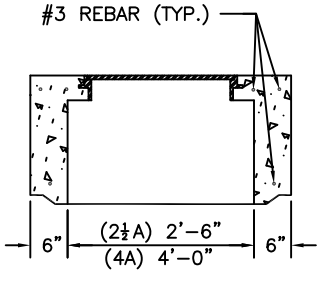
SECTION A-A

NOTES:

1. SURFACE CROSS–SLOPE FOR NEW CONSTRUCTION SHALL BE 1/4" RISE PER FOOT FROM THE TOP OF THE CURB TO THE SIDEWALK.
2. EXISTING CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST COLD JOINT WITHIN 4'.
3. ANGLE NOSING: 3 1/2" X 3 1/2" X 1/4" ANCHORED WITH:
   (2½A) 2–HORZ. #4 BARS 24" LONG
   (4A) 4–HORIZ. #4 BARS 24" LONG
4. ALL CONCRETE SHALL BE SAWCUT AND A SMOOTH, UNIFORM JOINT PROVIDED.
5. FLOOR SHALL BE POURED ON A BASE APPROVED BY THE ENGINEER: UNDISTURBED, STABLE SOIL, COMPACTED BASE (95% R.D. 3/4"–0" CRUSHED ROCK, MIN. 6" THICK), OR ANOTHER APPROVED BASE.
6. SET SECTION JOINTS IN 1:2 MORTER AND MORTER JOINT SEALANT ST–8, 1" WIDE. SEALANT SHALL MEET FED. SPEC. SS–5–00201 (CSA–FSS).
7. PIPE(S) SHALL BE FLUSH WITH THE INSIDE WALL.
8. ALL CONCRETE SHALL BE FORMED AND VIBRATED TO REMOVE VOIDS.
9. CONCRETE SHALL REACH 3300 PSI IN 28 DAYS
10. SURFACE SHALL HAVE A FINISHED TEXTURE THAT WILL NOT BE SLICK WHEN WET (MEDIUM BROOM FINISH), OR MATCH EXISTING ADJACENT SIDEWALK.
11. ALL METAL PARTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
12. COVER SHALL BE INLAND FOUNDRY CO. INC. 706 MANHOLE RING AND COVER (OR EQUAL), SUITABLE FOR HEAVY TRAFFIC LOADING.



ELEVATION



SECTION B-B

FILE: CP–SD–3.DWG

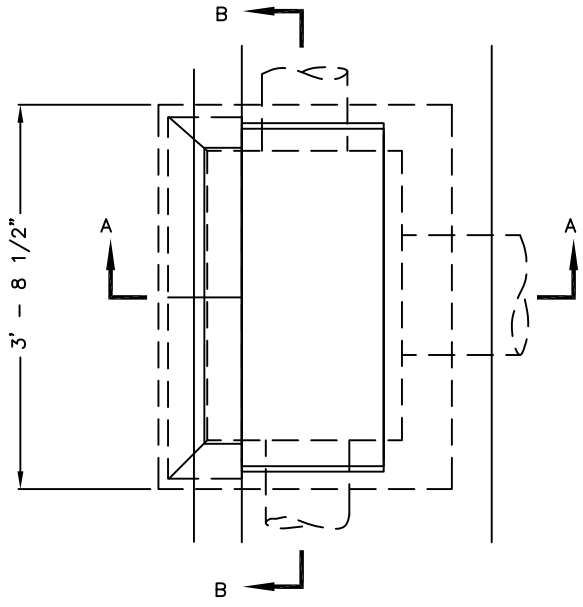
CENTRAL POINT

CITY OF
CENTRAL POINT
PUBLIC WORKS DEPARTMENT

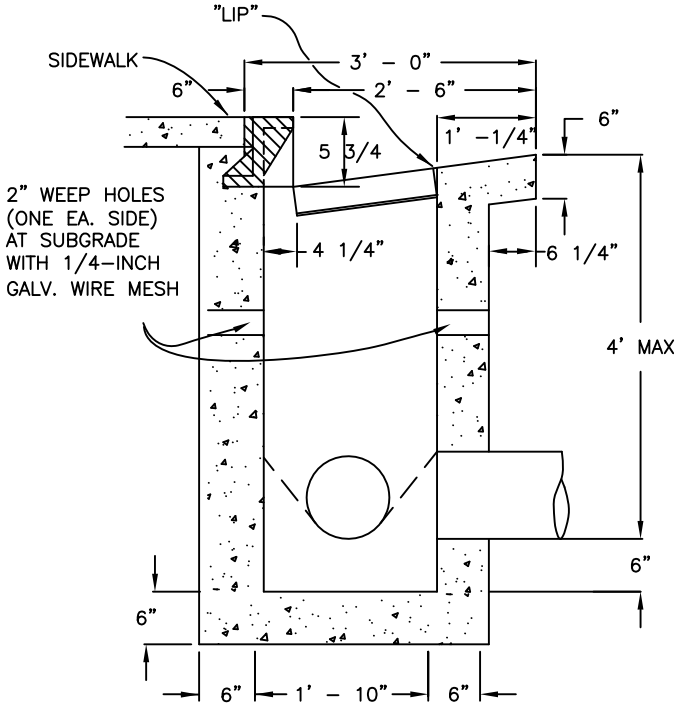
UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

CONCRETE CURB INLET

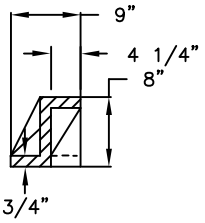
CHECKED	DATE	SD-3
APPROVED	DATE	
REVISED	DATE	DRAWING No.



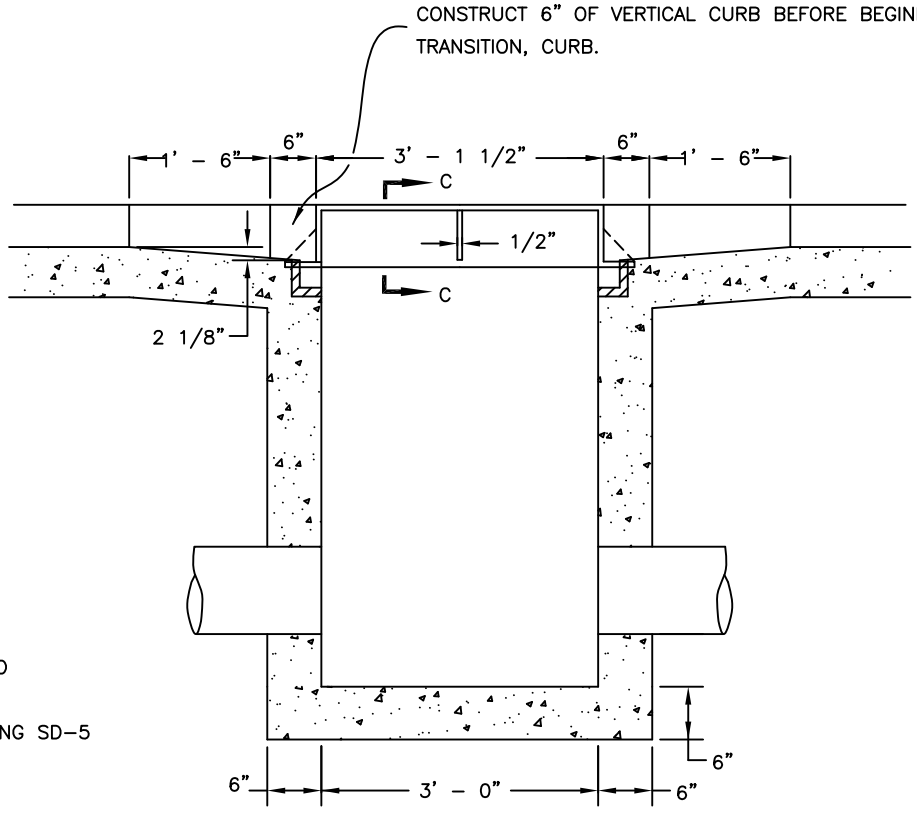
PLAN
NO SCALE



SECTION A - A
NO SCALE



SECTION C - C
NO SCALE
OPEN BACK HOOD



SECTION B - B
NO SCALE

NOTES:

1. TYPE B APPLICABLE TO ROLLED CURB AND GUTTER SECTION
2. BOTTOM OF INLET SHALL BE PLACED PRIOR TO OR AT THE SAME TIME AS SIDE WALLS
3. FRAME AND GRATE SHALL CONFORM TO DRAWING SD-5
4. OPEN BACK HOOD SHALL BE CAST IRON
5. 0.2 FEET "DROP" IN ALL CURB INLETS WHEN VELOCITIES OF STORM EVENT FLOW LESS THAN 3.0 FPS; OTHERWISE MAINTAIN PIPE SLOPE THROUGH INLET

FILE: CP-SD-4.DWG

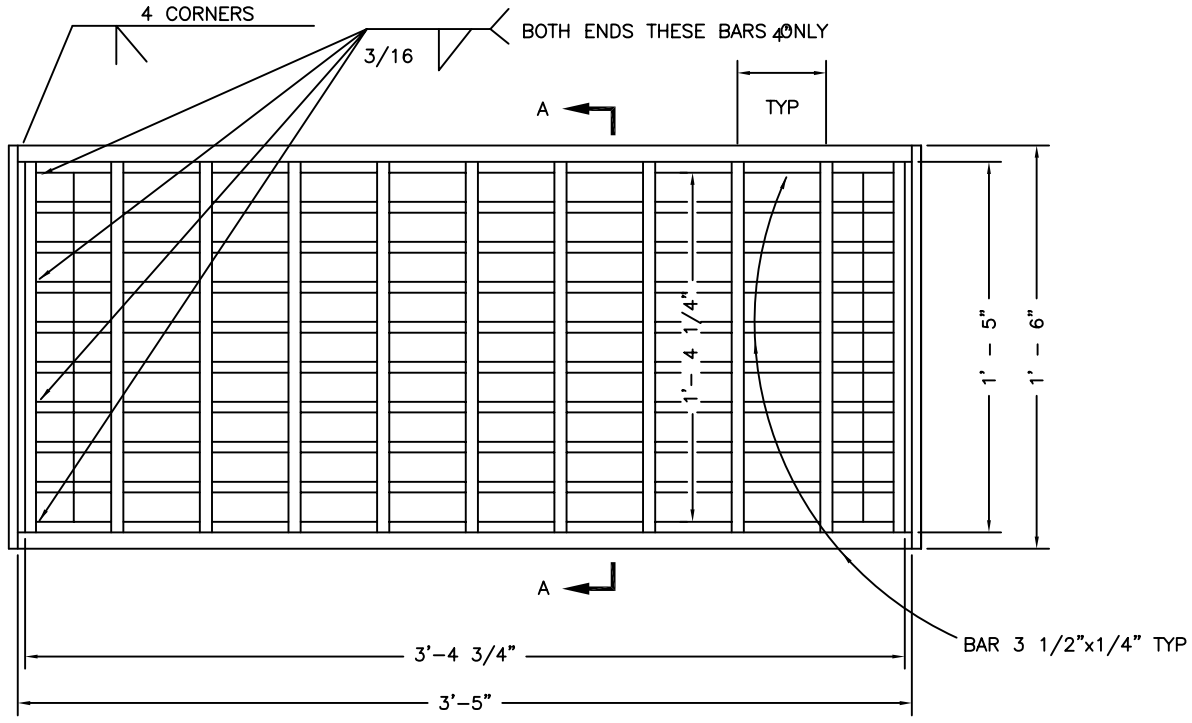
CENTRAL POINT

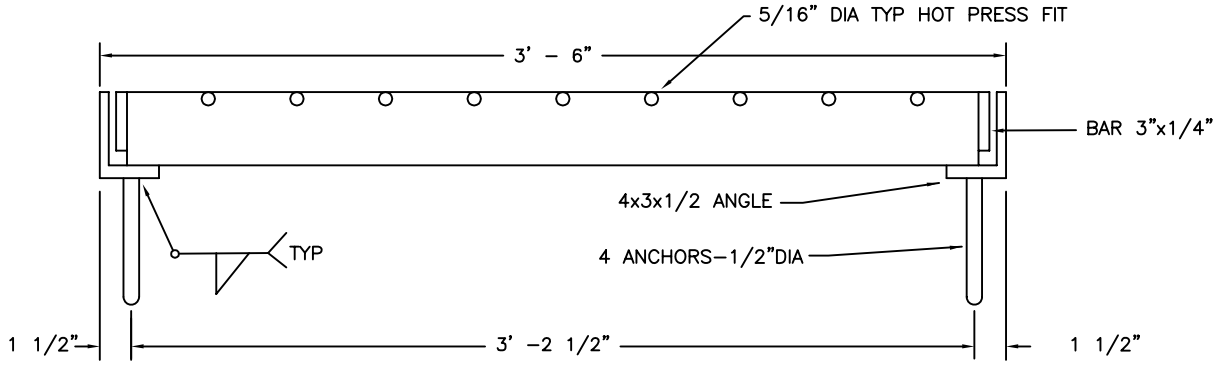
CITY OF
CENTRAL POINT
PUBLIC WORKS DEPARTMENT

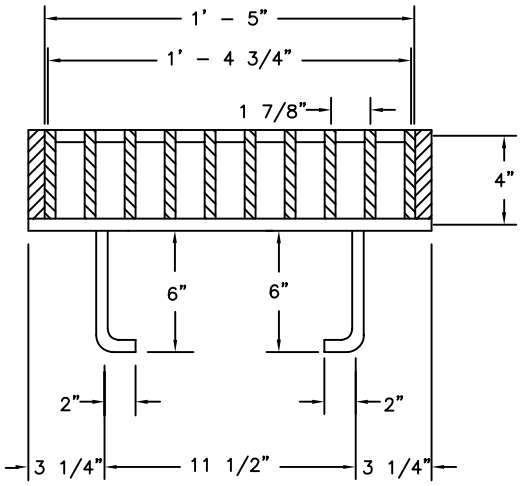
UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

TYPE B CURB INLET

CHECKED	DATE	SD-4
APPROVED	DATE	
REVISED	DATE	DRAWING No.







SECTION A-A

NOTE:
AT THE CONTRACTOR'S OPTION, END SPACING OF 5/16" CROSS RODS MAY BE 2". INTERIOR SPACING SHALL REMAIN 4".

FILE: CP-SD-5.DWG

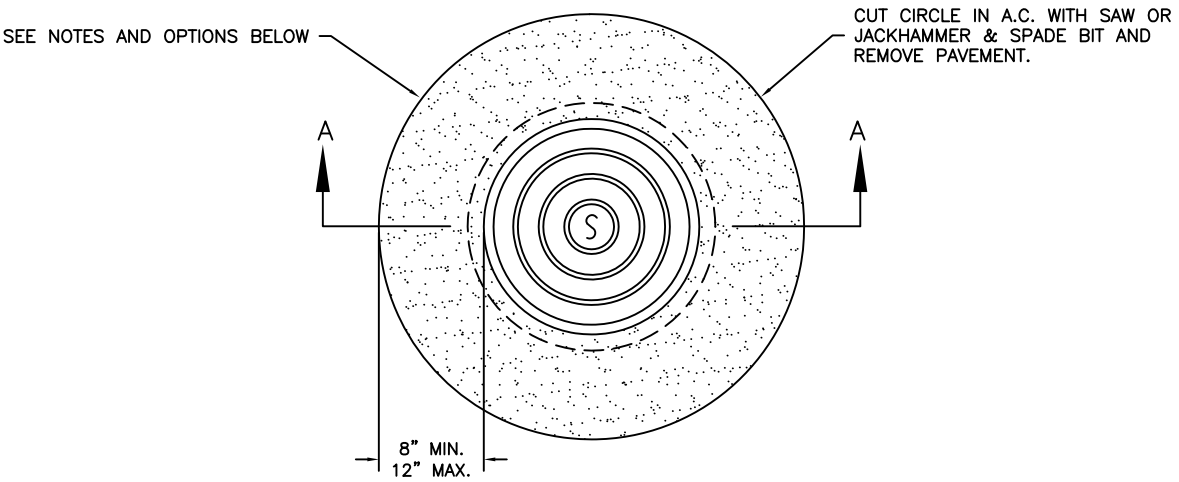
CITY OF CENTRAL POINT
PUBLIC WORKS DEPARTMENT

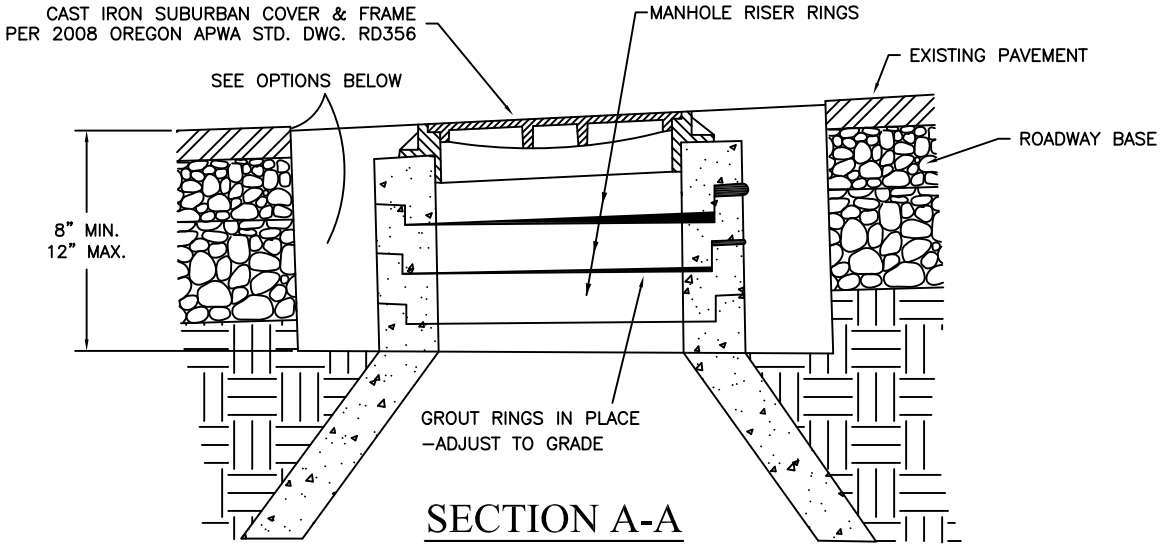
UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION

CURB INLET B FRAME & GRATE

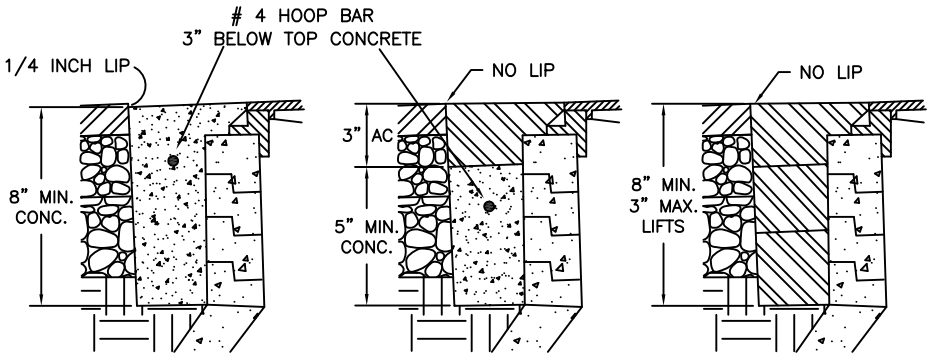
CHECKED	DATE
APPROVED	DATE
REVISED	DATE

SD-5
DRAWING No.





SECTION A-A



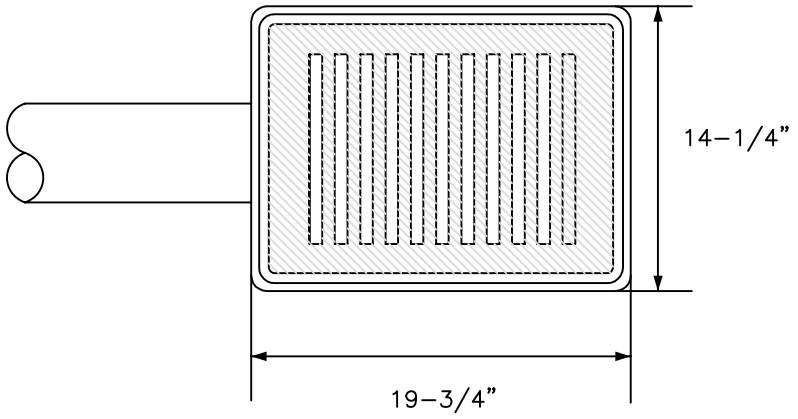
MANHOLE COLLAR OPTIONS

NOTES:

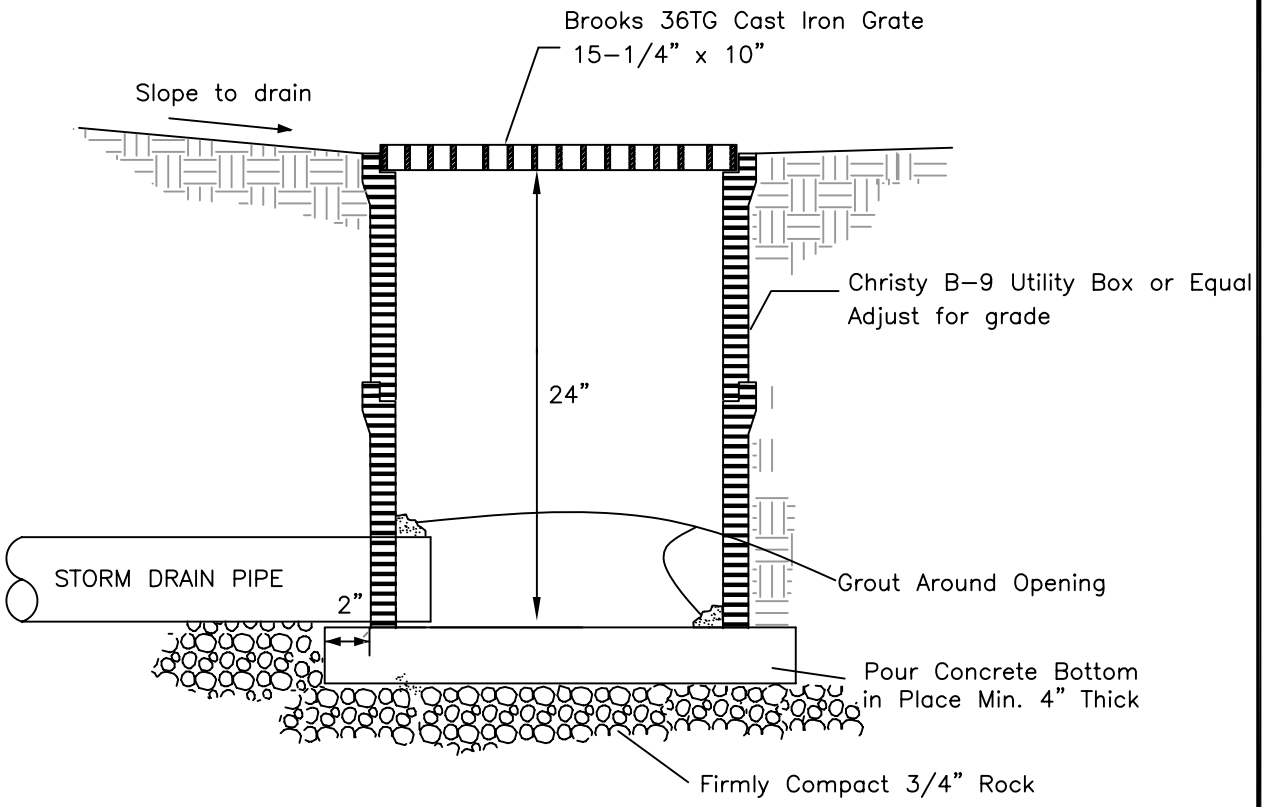
1. CONCRETE TO BE CLASS 3300–3/4" 0.54 W/C RATIO (LIGHT BROOM FINISH ON OPTION 1.)
2. AC TO BE CLASS "C" IN 3" MAX. LIFTS. ALL BUT TOP LIFT SHALL BE COMPACTED WITH PNEUMATIC TAMPER WITH 6" MAX. HEAD DIAMETER.

FILE: CP–SD–6.DWG

CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED / APPROVED / REVISED — DATE	SD-6
	MANHOLE ADJUSTMENT DETAIL		DRAWING No.



PLAN



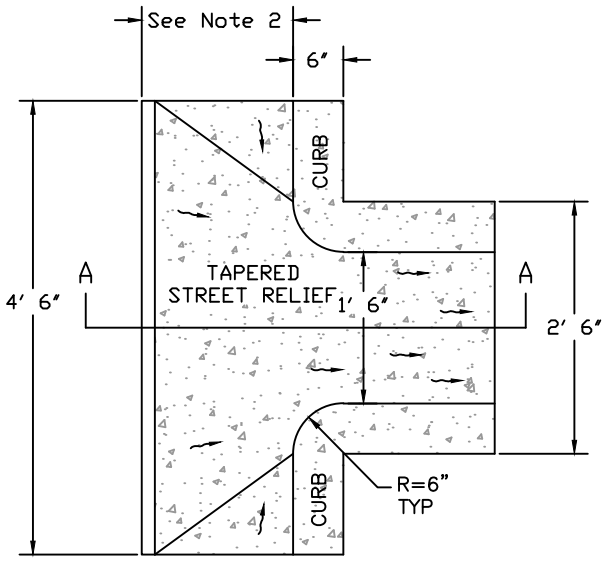
PROFILE

TYPE "A" AREA DRAIN

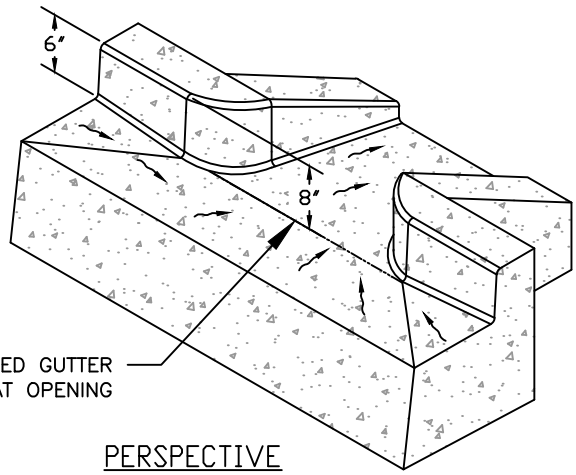
For Storm Drain Pipes 6” Dia. or Less

FILE: CP–SD–7.DWG

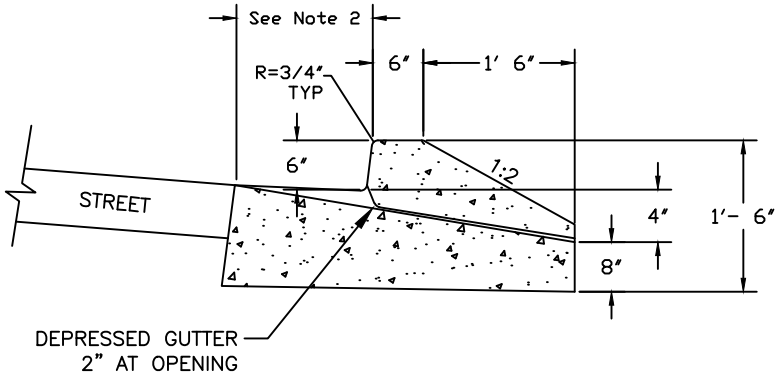
CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	SD-7
	TYPE 'A" AREA DRAIN	APPROVED	DATE	
		REVISED	DATE	DRAWING No.



PLAN



PERSPECTIVE



SECTION A–A

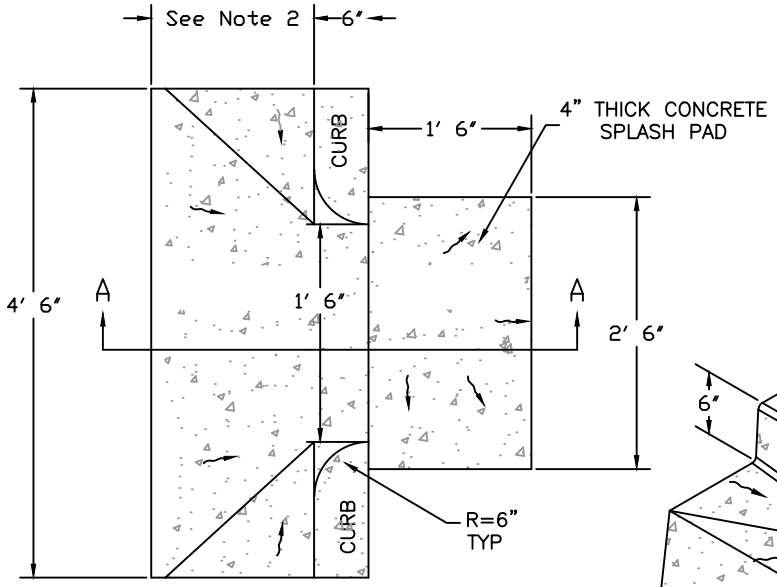
LID Concrete Inlet with Wingwalls

NTS

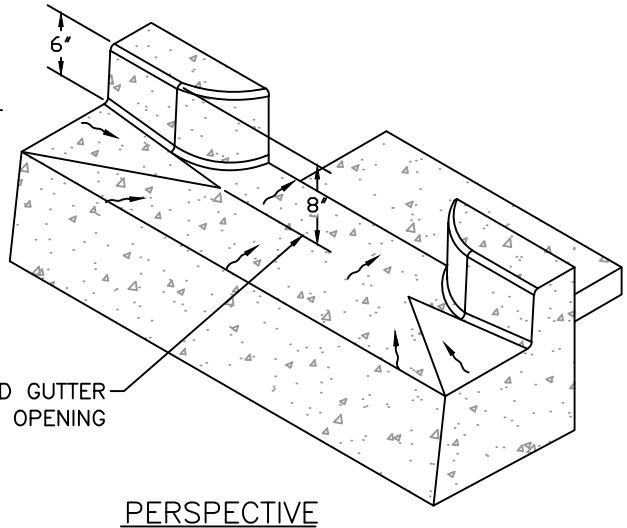
NOTES:
1. For use with stormwater facilities with side slopes.
2. Refer to Standard Drawing A–6B. Match gutter pan of adjacent curb and gutter.
3. Metal Inlet assembly, SD–10, required on high traffic streets.

FILE: CP–SD–8.DWG

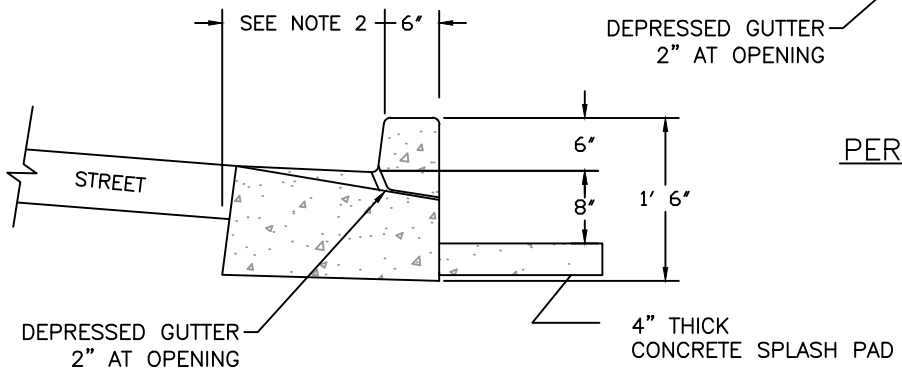
CENTRAL POINT — *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	SD-8
	LID Concrete Inlet with Wingwalls	APPROVED	DATE	
		REVISED	DATE	DRAWING No.



PLAN



PERSPECTIVE



SECTION A–A

LID Concrete Inlet

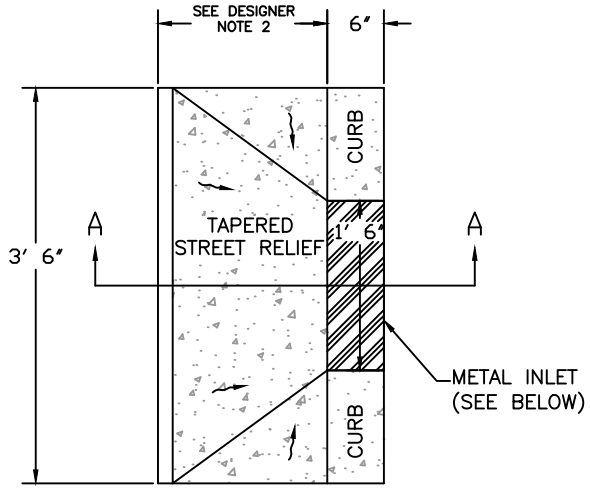
NTS

NOTES:

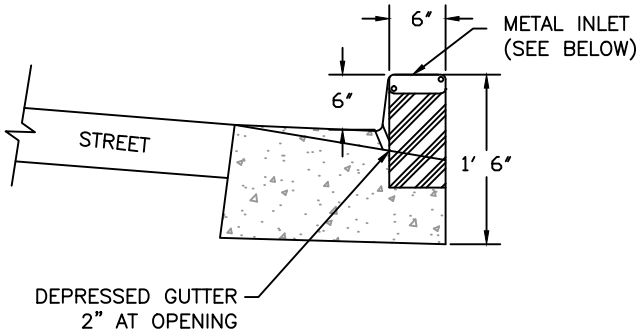
1. For use with planters. If planter inlet is adjacent to planter wall, then include wall in detail.
2. Refer to Standard Drawing A-6B. Match gutter pan of adjacent curb and gutter.
3. Metal Inlet assembly, SD-10, required on high traffic streets.

FILE: CP-SD-9.DWG

CENTRAL POINT — *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED / APPROVED / REVISED	DATE	SD-9
	LID Concrete Inlet			DRAWING No.



PLAN



SECTION A–A

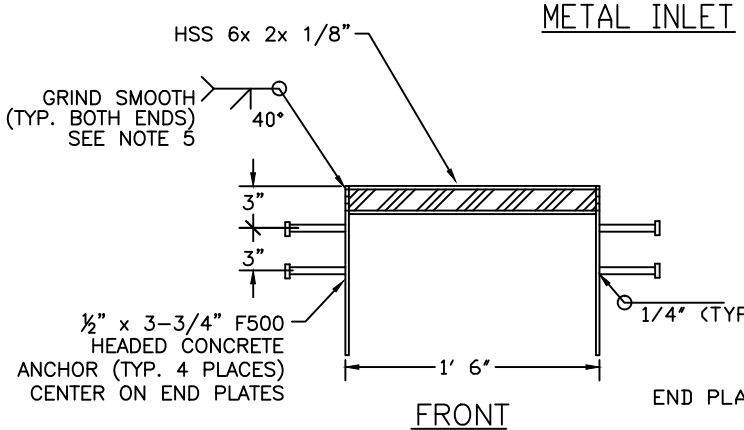
DESIGNER INFORMATION:

1. Metal Inlets required on high traffic streets.
2. Curb and gutter use Drawing A–6B.
3. Metal Inlet assembly used with SD–8, SD9,
4. When using with SD–8, modify curb for Metal Inlet assembly.
5. Design vertical wheel load is 8.5kips (1/2 of tandem axles weight specified in FHWA–HOP–06–105.
6. Metal Inlet width can be modified to 2 ft if site conditions require a 2 ft interior inlet width.

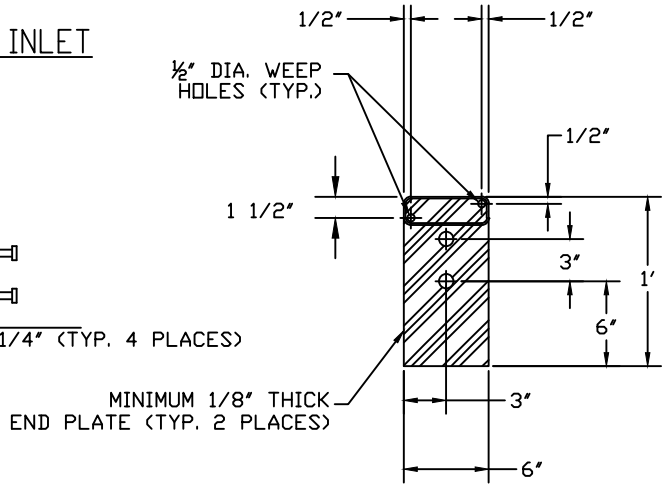
CONSTRUCTION NOTES:

1. 1. Headed concrete anchors shall meet the requirements of ASTM A–108.
2. HSS 6 x 2 x 1/8 Channel shall meet the requirements of ASTM A–500 Grade B.
3. End Plates shall meet the requirements of ASTM A–36.
4. Entire assembly shall be Hot–Dip Galvanized in accordance with ASTM A–123.
5. Single Bevel Groove Weld.

METAL INLET



FRONT



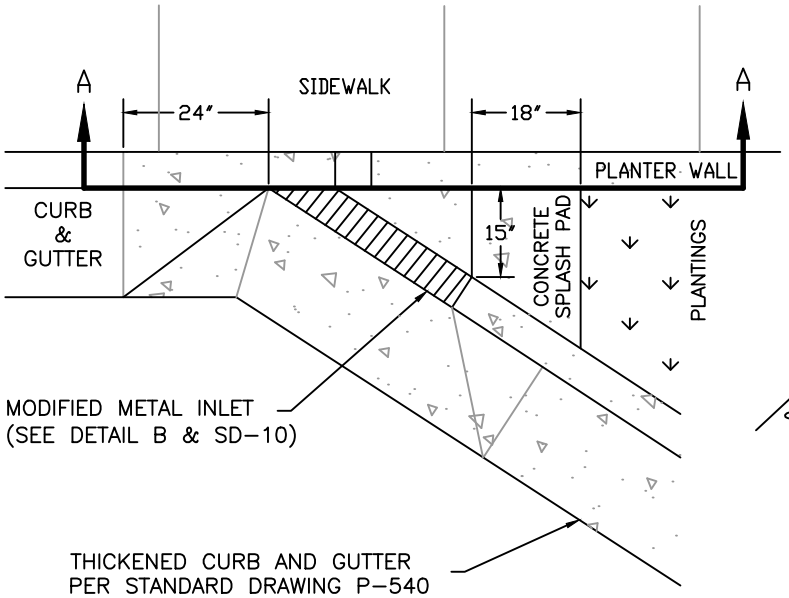
SIDE

LID Metal Inlet

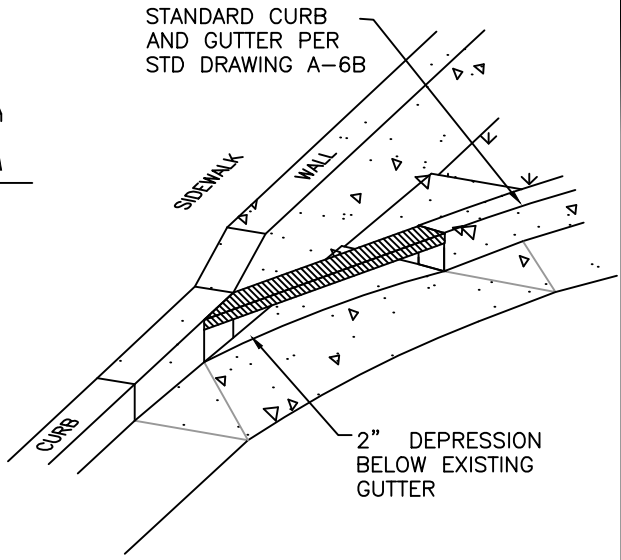
NTS

FILE: CP–SD–10.DWG

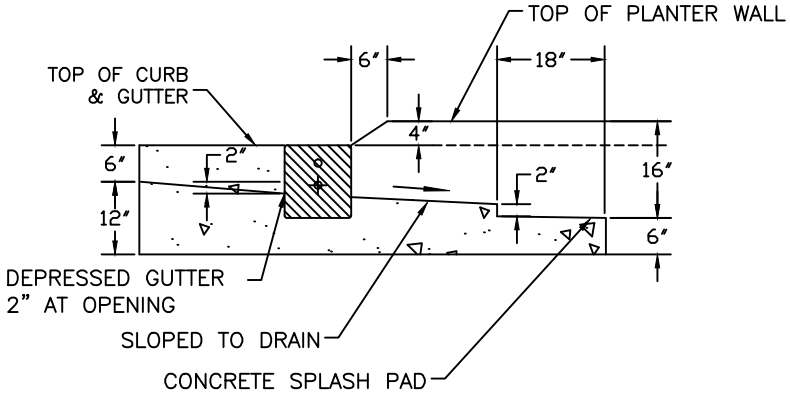
CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED / APPROVED / REVISED	DATE	SD-10
	LID Metal Inlet			DRAWING No.



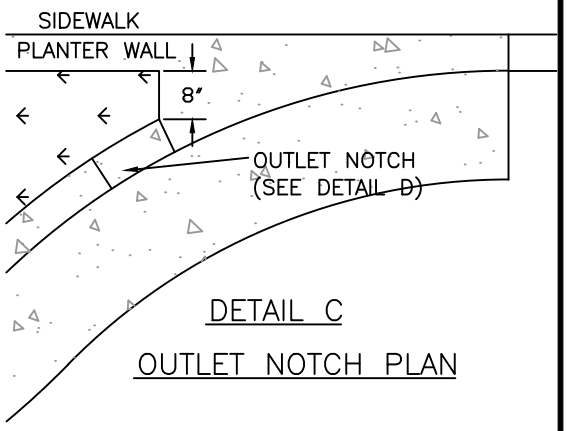
DETAIL A – INLET PLAN



DETAIL B
INLET PERSPECTIVE



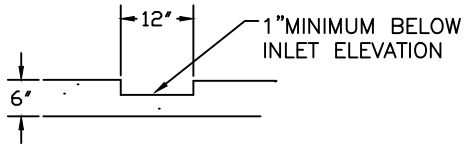
SECTION A–A



DETAIL C
OUTLET NOTCH PLAN

DESIGNER INFORMATION:

1. Additional inlets can be added if necessary (preferably immediately downstream of each check dam to minimize potential backflow).
2. Sawcut beyond facility and transition existing curb to new curb and gutter at 1" per foot as necessary.
3. Inlet may be modified to maximize flow entry to stormwater facility.



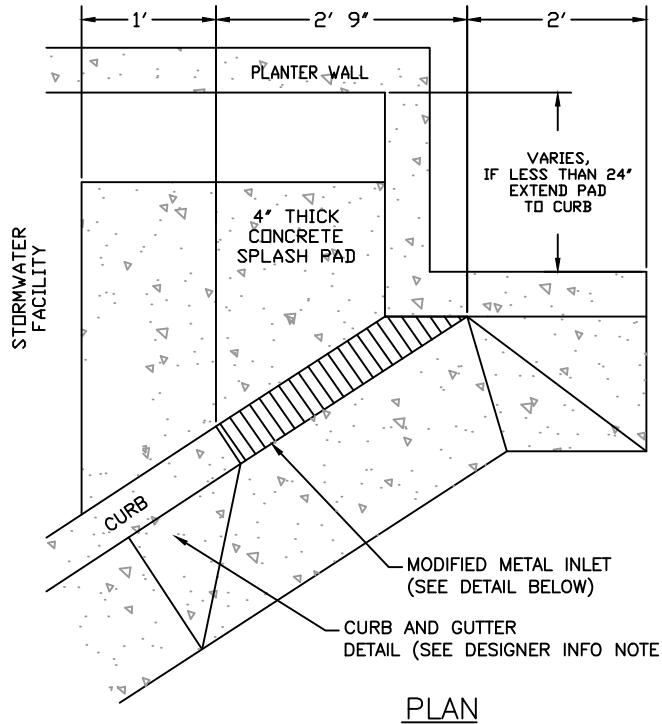
DETAIL D – OUTLET NOTCH

LID Inlet & Outlet for Curb Extensions

NTS

FILE: CP–SD–11.DWG

CENTRAL POINT — *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	SD-11
	LID Inlet & Outlet for Curb Extensions	APPROVED	DATE	
		REVISED	DATE	DRAWING No.



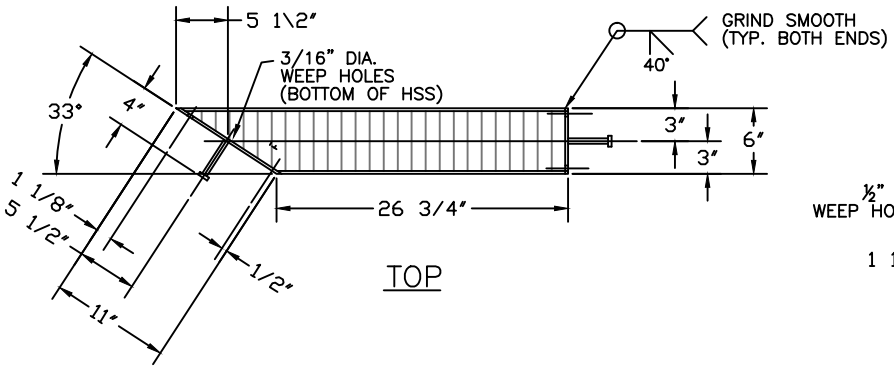
PLAN

DESIGNER INFORMATION:

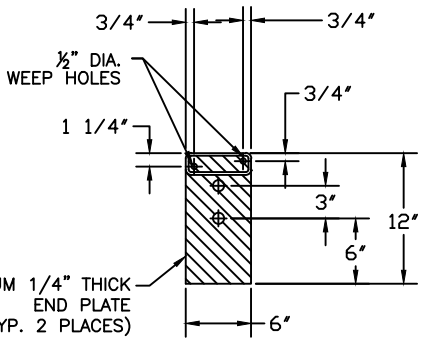
1. Splash pad are required at all inlets.
2. Refer to Standard Drawing A–6B. Match gutter pan of adjacent curb and gutter.
3. Design vertical wheel load is 8.5kips (1/2 of tandem axle weight specified in FHWA–HOP–06–105).

CONSTRUCTION NOTES:

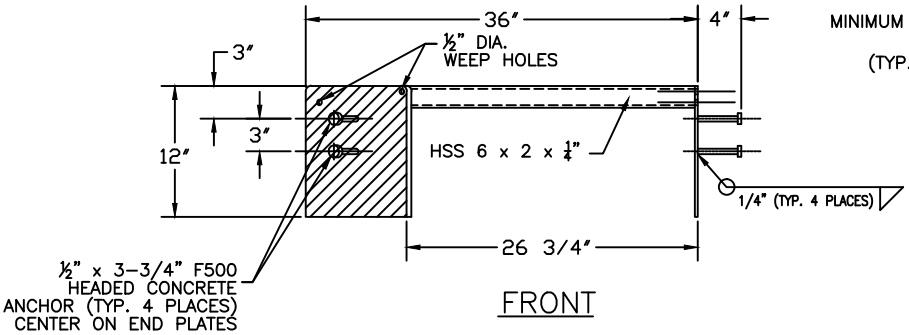
1. Headed concrete anchors shall meet the requirements of ASTM A–108.
2. HSS 6 x 2 x 1/4 Channel shall meet the requirements of ASTM A–500 Grade B.
3. End Plates shall meet the requirements of ASTM A–36.
4. Entire assembly shall be Hot–Dip Galvanized in accordance with ASTM A–123.
5. Single Bevel Groove Weld.



TOP



END PLATE DETAIL



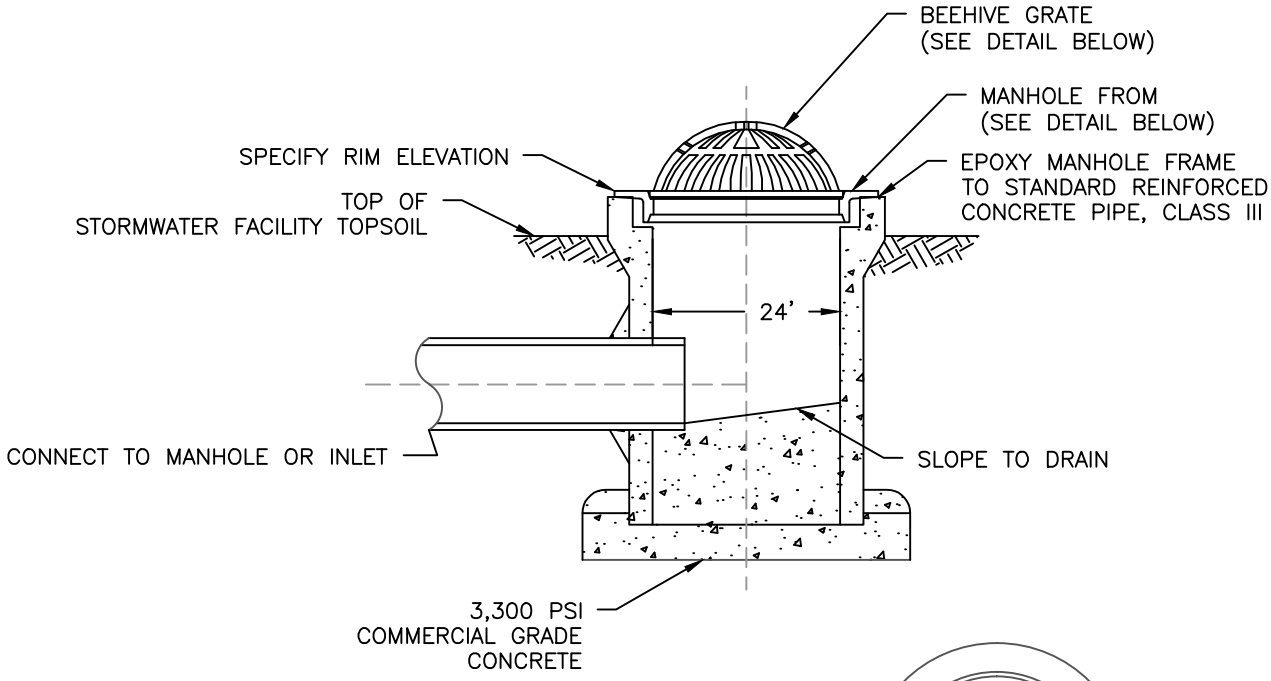
FRONT

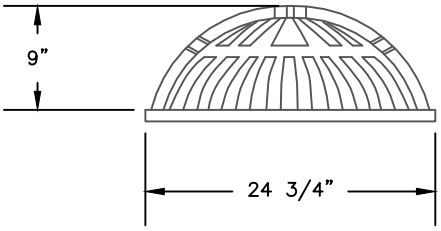
LID Modified Metal Inlet Assembly

NTS

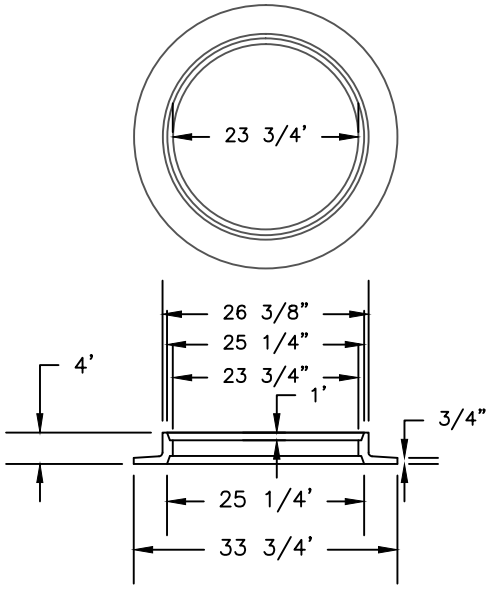
FILE: CP–SD–12.DWG

CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	SD-12
	LID Modified Metal Inlet Assembly	APPROVED	DATE	
		REVISED	DATE	DRAWING No.





BEEHIVE GRATE
NTS



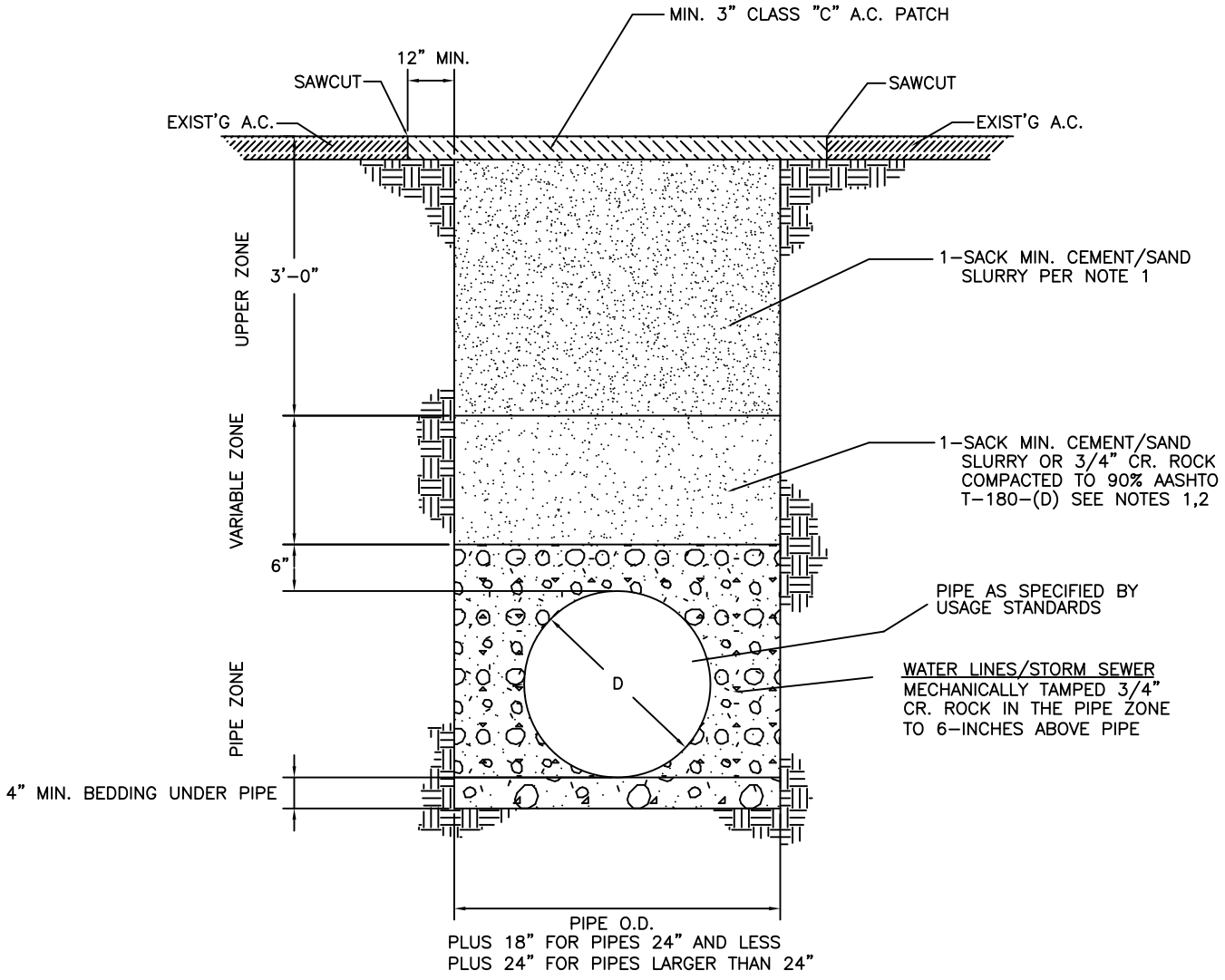
24"x4" REVERSIBLE MANHOLE FRAME
NTS

DESIGNER INFORMATION
1. Size inlet based on calculated flows & manufacturers recommendations.

CONSTRUCTION NOTE
1. Grate to be cast iron, ASTM A48 CL30.

FILE: CP-SD-13.DWG

CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	SD-13
	STORMWATER OVERFLOW STRUCTURES	APPROVED	DATE	
		MHO REVISED	3/06/14 DATE	DRAWING No.



TRENCH SECTION UNDER EXISTING PAVING

NO SCALE

NOTES:

1. ONE (1) SACK CEMENT/ SAND SLURRY MIX MEETING REQUIREMENTS OF SECTION 945.0.0 UNDER EXISTING PAVING.
2. 3/4-INCH CRUSHED ROCK MEETING REQUIREMENTS OF SECTION 910.11.01(c)
3. COLD MIX AC MAY BE USED AS TEMPORARY PATCH ONLY.
4. ALL STEEL TRAFFIC PLATES IN TRAVELED AREAS MUST BE "RAMPED" WITH PLATE LOCKS TO ALLOW SMOOTHER TRANSITION.
   a) MINIMUM 12" LAP OF STEEL PLATES ONTO EXISTING PAVEMENT.
   b) MINIMUM 3/4" STEEL PLATE THICKNESS.

FILE: CP-T-1.DWG

CENTRAL POINT

CITY OF
CENTRAL POINT
PUBLIC WORKS DEPARTMENT

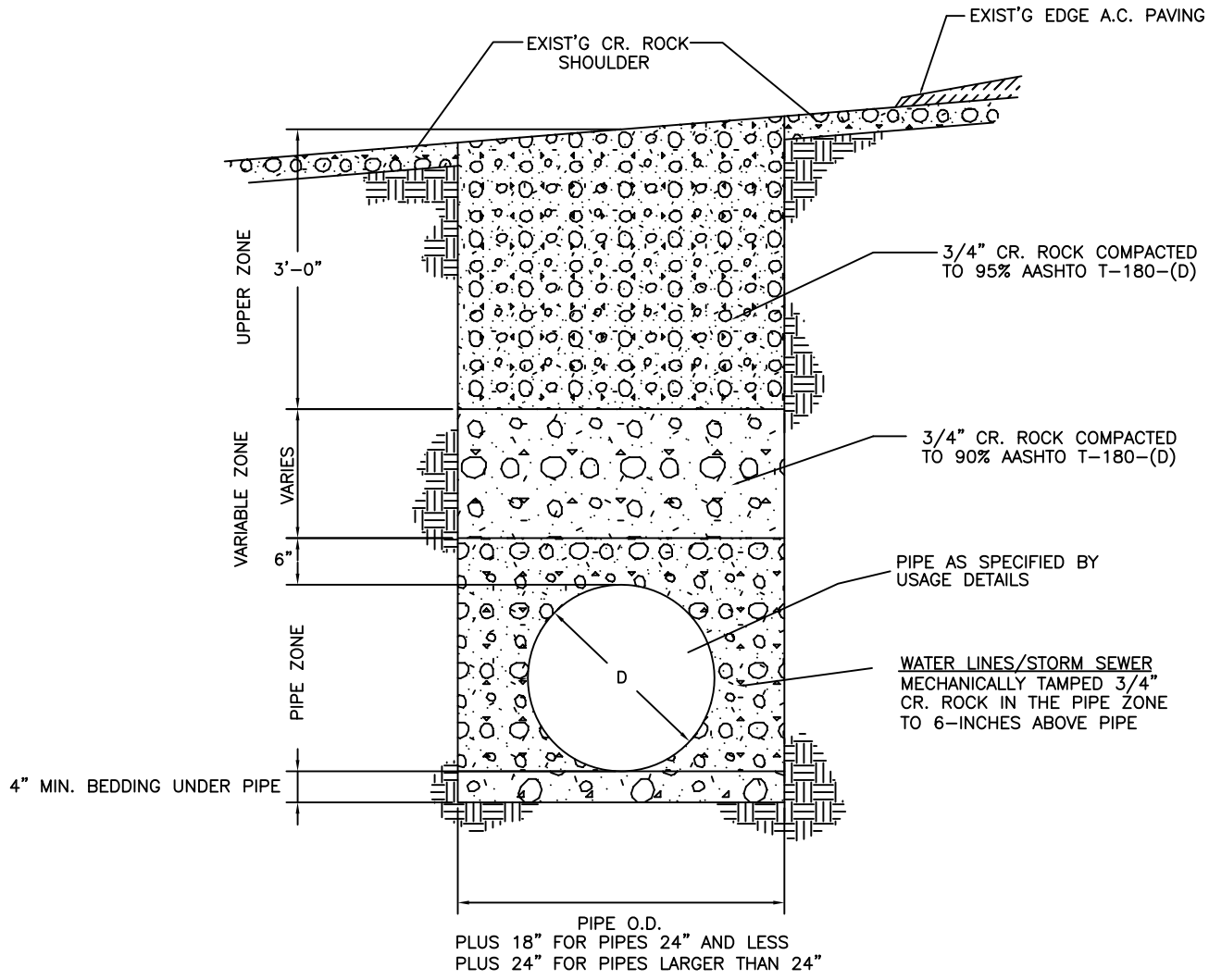
UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

TRENCH SECTION

CHECKED	DATE
APPROVED	DATE
REVISED	DATE

T-1

DRAWING No.



TRENCH SECTION UNDER SHOULDER

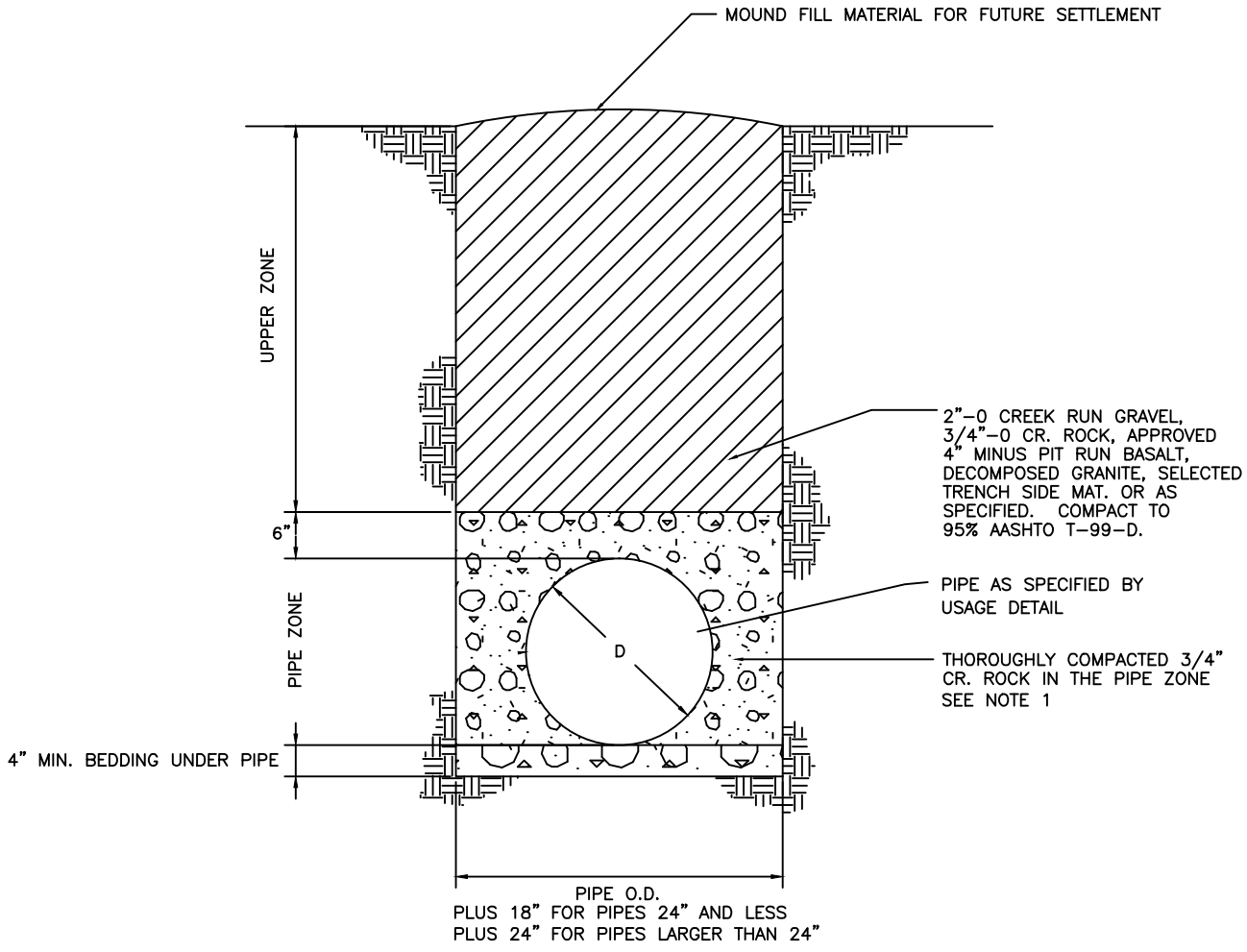
NO SCALE

NOTES:

1. 3/4-INCH CRUSHED ROCK MEETING REQUIREMENTS OF SECTION 910.11.01 FOR APPLICABLE TRENCH ZONE

FILE: CP-T-2.DWG

CENTRAL POINT — *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	T-2
	TRENCH SECTION	APPROVED	DATE	
		REVISED	DATE	DRAWING No.



TRENCH SECTION IN OPEN GROUND

NO SCALE

NOTES:

1. 3/4–INCH CRUSHED ROCK MEETING REQUIREMENTS OF SECTION 910.11.01

FILE: CP–T–3.DWG

CENTRAL POINT — *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED / DATE	T-3	
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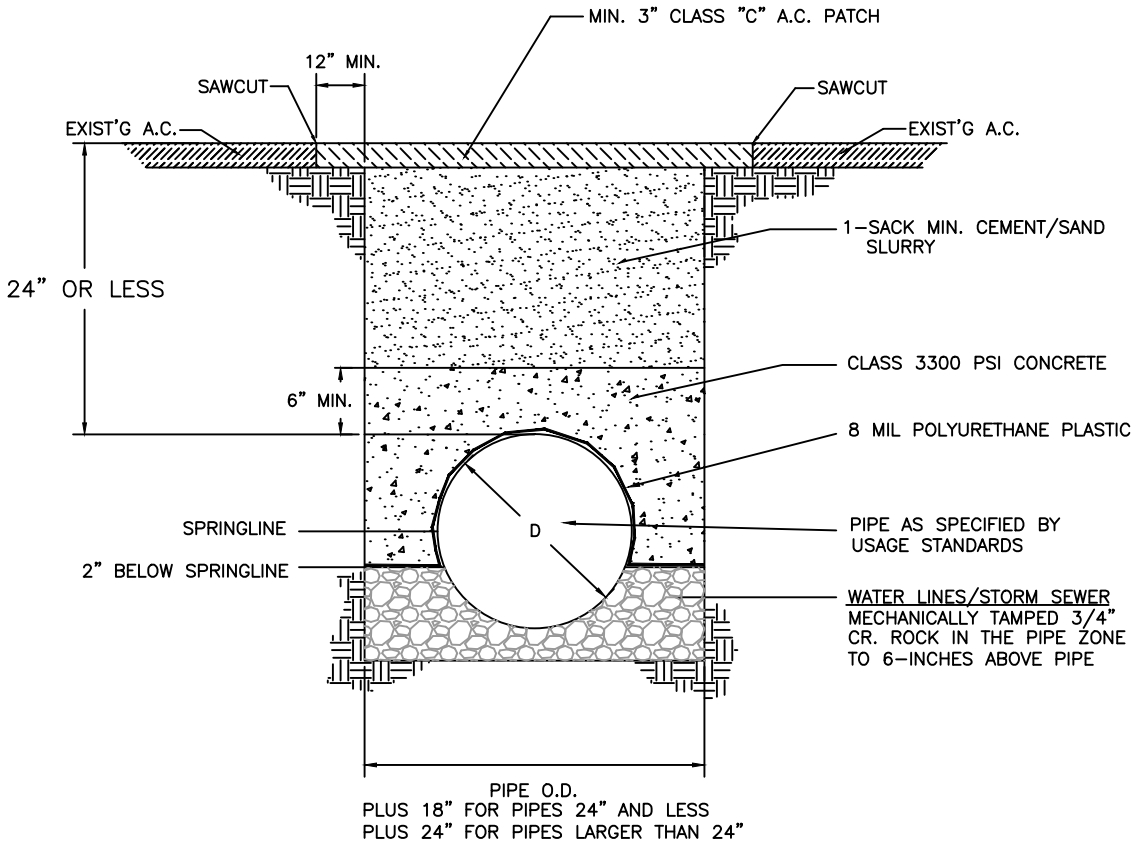
		REVISED / DATE	DRAWING No.	



SHALLOW TRENCH SECTION UNDER TRAVELED WAY

CONCRETE CAP DETAIL

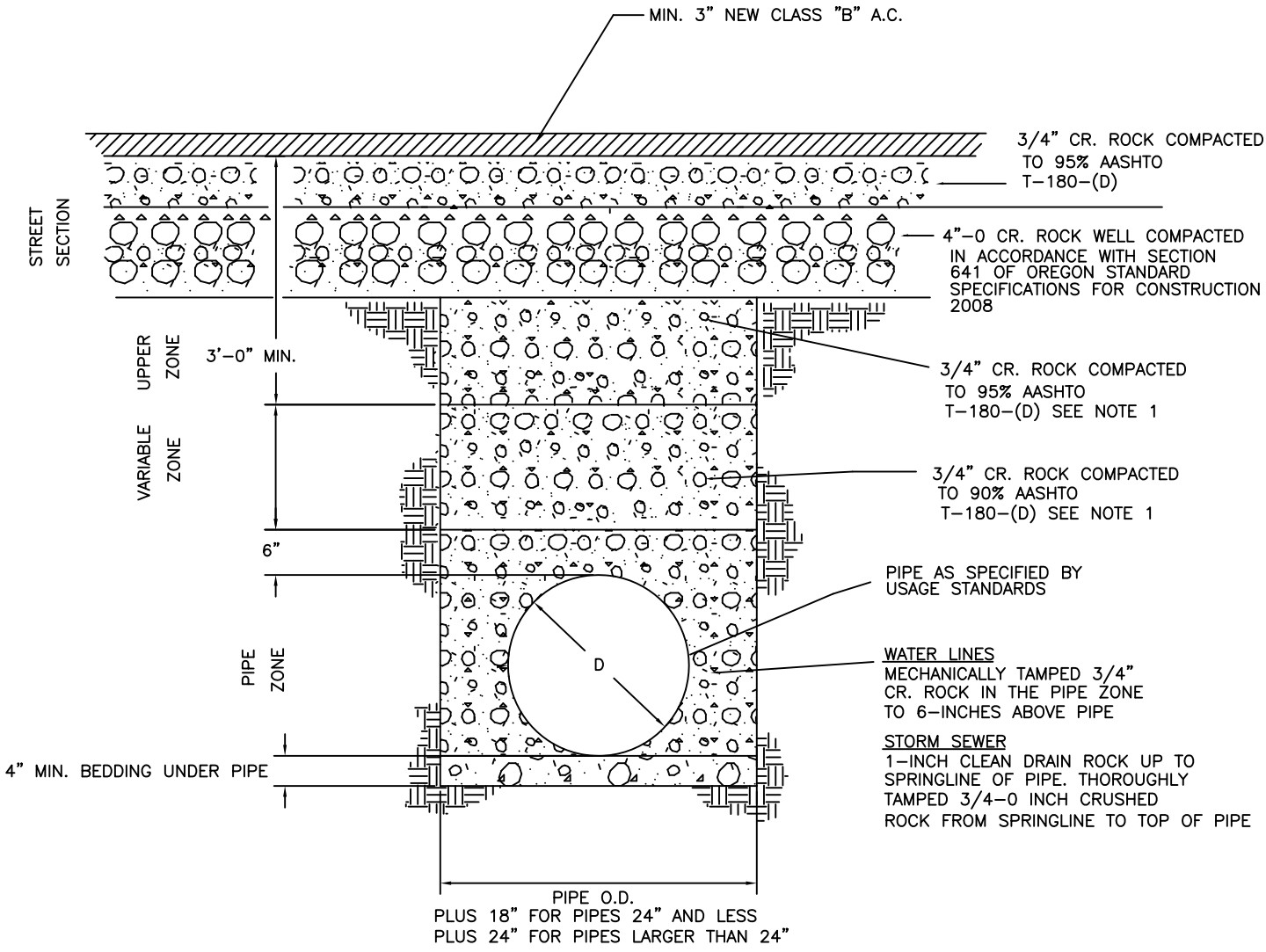
NO SCALE

NOTES:

1. ONE (1) SACK CEMENT/ SAND SLURRY MIX MEETING REQUIREMENTS OF SECTION 945.0.0 UNDER EXISTING PAVING.
2. 3/4-INCH CRUSHED ROCK MEETING REQUIREMENTS OF SECTION 910.11.01
3. COLD MIX AC MAY BE USED AS TEMPORARY PATCH ONLY.
4. ALL STEEL TRAFFIC PLATES IN TRAVELED AREAS MUST BE "RAMPED" WITH COLD MIX AC TO ALLOW SMOOTHER TRANSITION.
   a) MINIMUM 12" LAP OF STEEL PLATES ONTO EXISTING PAVEMENT.
   b) MINIMUM 3/4" STEEL PLATE THICKNESS.

FILE: CP-T-4.DWG

CENTRAL POINT *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED / DATE	T-4	
	TRENCH SECTION	APPROVED / DATE		
		REVISED / DATE	DRAWING No.	



TRENCH SECTION UNDER NEW PAVING

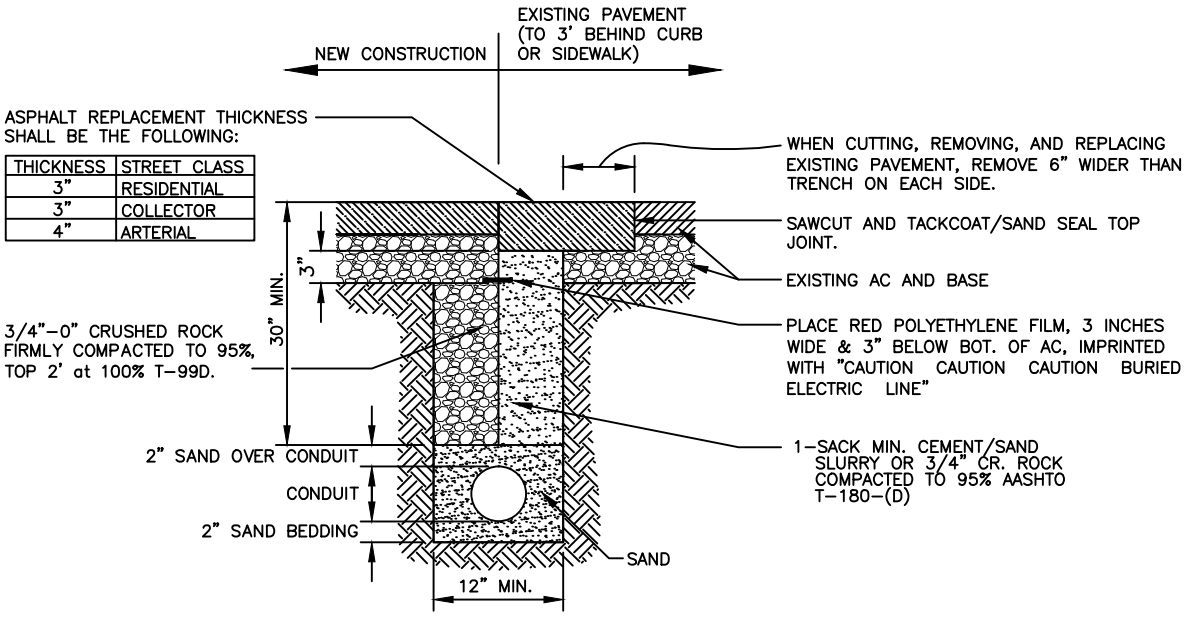
NO SCALE

NOTES:

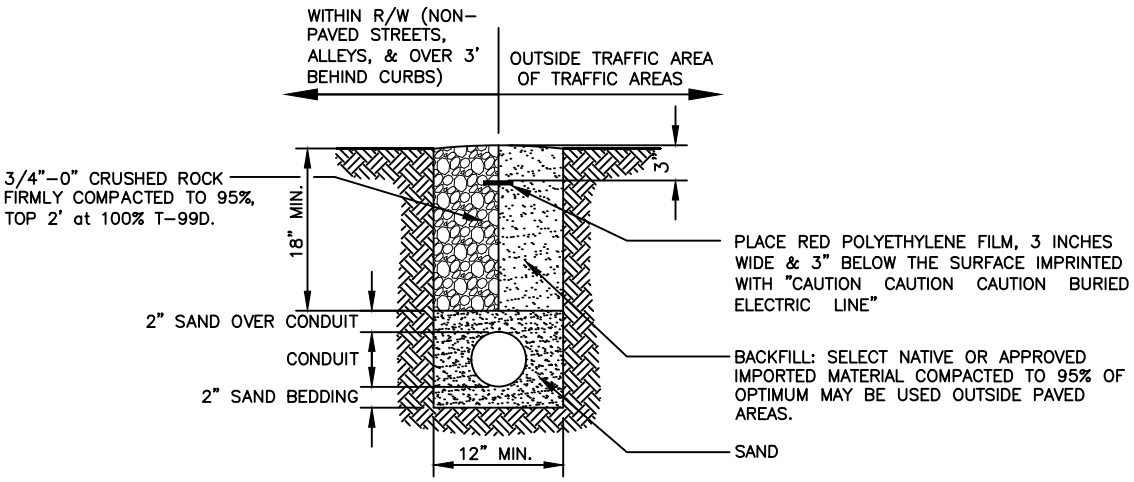
1. 3/4-INCH CRUSHED ROCK MEETING REQUIREMENTS OF SECTION 910.11.01 FOR APPLICABLE TRENCH ZONE

FILE: CP-T-5.DWG

CENTRAL POINT *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION **TRENCH SECTION**	CHECKED	DATE	T-5 DRAWING No.
		APPROVED	DATE	
		REVISED	DATE	



TRENCH DETAIL
UNDER PAVED AREAS



TRENCH DETAIL
OUTSIDE PAVED AREAS

ELECTRICAL CONDUIT TRENCH

NOTES:

1. ONE (1) SACK CEMENT/ SAND SLURRY MIX MEETING REQUIREMENTS OF SECTION 945.0.0 UNDER EXISTING PAVING.
2. 3/4-INCH CRUSHED ROCK MEETING REQUIREMENTS OF SECTION 910.11.01
3. COLD MIX AC MAY BE USED AS TEMPORARY PATCH ONLY.
4. ALL STEEL TRAFFIC PLATES IN TRAVELED AREAS MUST BE "RAMPED" WITH PLATE LOCKS TO ALLOW SMOOTHER TRANSITION.
   a) MINIMUM 12" LAP OF STEEL PLATES ONTO EXISTING PAVEMENT.
   b) MINIMUM 3/4" STEEL PLATE THICKNESS.

FILE: CP-T-6.DWG

CENTRAL POINT

CITY OF
CENTRAL POINT
PUBLIC WORKS DEPARTMENT

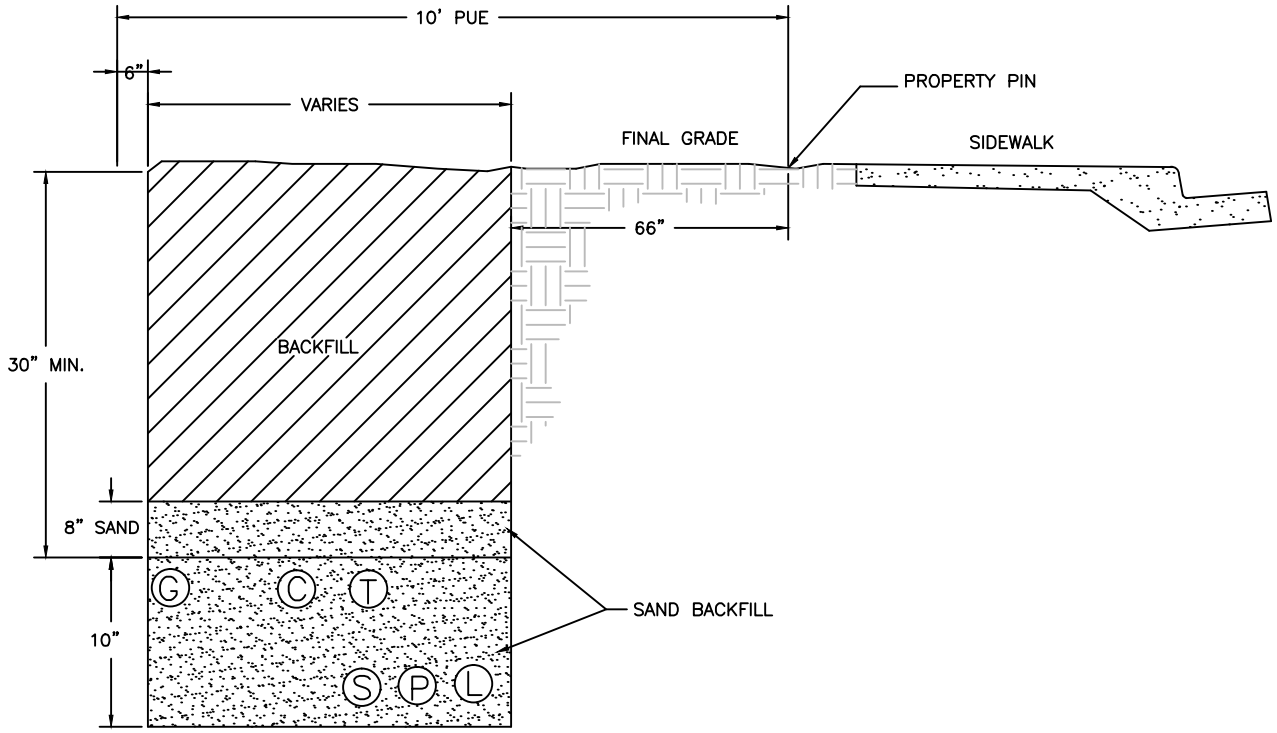
UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

ELECTRICAL CONDUIT TRENCH

CHECKED	DATE
APPROVED	DATE
REVISED	DATE

T-6

DRAWING No.



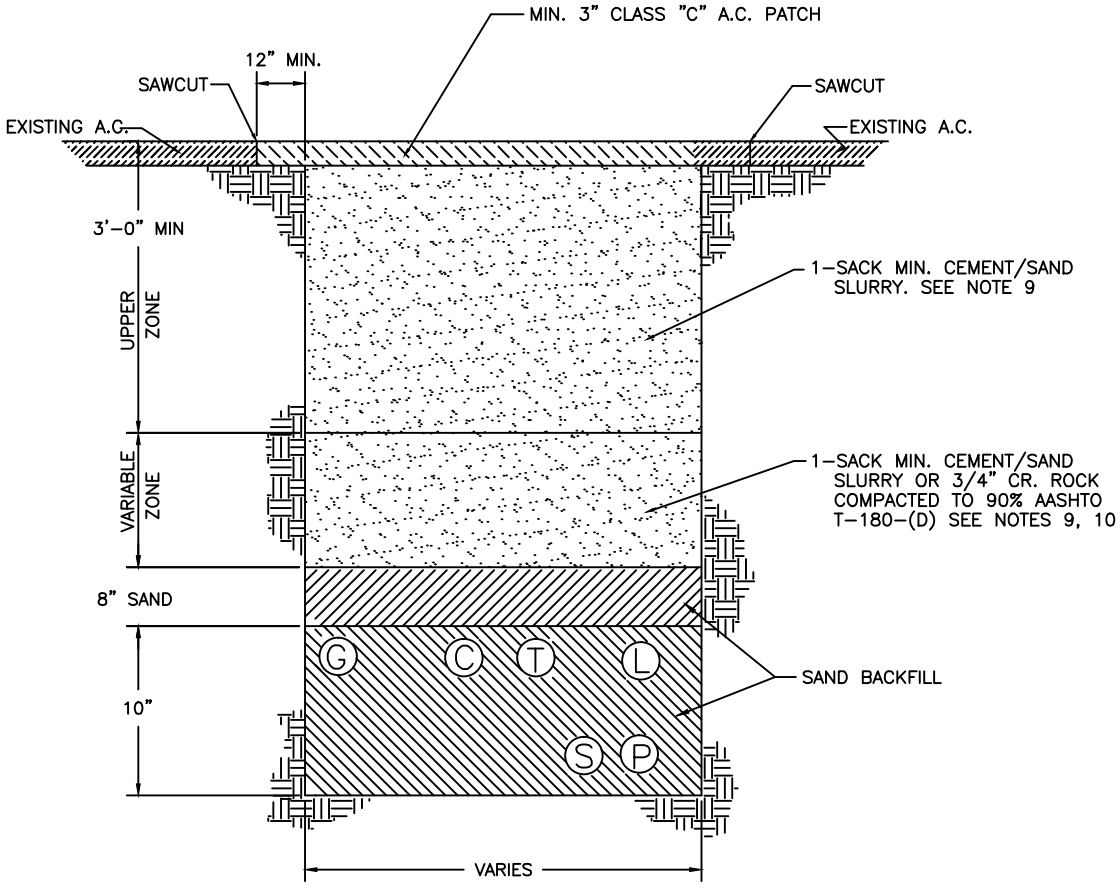
PUBLIC UTILITY EASEMENTS AND SHOULDERS FOR MAIN UTILITY RUNS

NOTES:

1. MINIMUM SEPARATION OF ELECTRIC, TELEPHONE, AND CATV IS 12".
2. MINIMUM SEPARATION OF GAS AND ELECTRIC IS 36".
3. MINIMUM 4" OF SAND ON ALL SIDES OF UTILITY LINES.
4. BACKFILL SHALL BE FREE OF LARGE OR SHARP ROCKS.
5. SAND MUST PASS THROUGH A NO. 10 SIEVE FRAME.
6. GRADE TO BE WITHIN 2% OF FINAL BEFORE UTILITY PLACEMENT.
7. CONTACT T.V. AND UTILITY COMPANIES BEFORE CONSTRUCTION.
8. CONDUIT FOR ELECTRIC, AND TELEPHONE SHALL BE FURNISHED BY THE DEVELOPER/ CONTRACTOR. CONDUIT FOR T.V. SHALL BE FURNISHED BY LOCAL CABLE COMPANY. CONSULT WITH APPROPRIATE AGENCY FOR CONDUIT TYPES AND SIZES.

FILE: CP-U-1A.DWG

CENTRAL POINT *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	U-1A
		APPROVED	DATE	
	UTILITY TRENCH	MHO REVISED	1/24/2014 DATE	DRAWING No.



UTILITIES TRENCH UNDER EXISTING PAVEMENT

NO SCALE

NOTES:

1. MINIMUM SEPARATION OF ELECTRIC, TELEPHONE, AND CATV IS 12".
2. MINIMUM SEPARATION OF GAS AND ELECTRIC IS 36".
3. MINIMUM 4" OF SAND ON ALL SIDES OF UTILITY LINES.
4. BACKFILL SHALL BE FREE OF LARGE OR SHARP ROCKS.
5. SAND MUST PASS THROUGH A NO. 10 SIEVE FRAME.
6. GRADE TO BE WITHIN 2% OF FINAL BEFORE UTILITY PLACEMENT.
7. CONTACT T.V. AND UTILITY COMPANIES BEFORE CONSTRUCTION.
8. CONDUIT FOR ELECTRIC, AND TELEPHONE SHALL BE FURNISHED BY THE DEVELOPER/ CONTRACTOR. CONDUIT FOR T.V. SHALL BE FURNISHED BY LOCAL CABLE COMPANY. CONSULT WITH APPROPRIATE AGENCY FOR CONDUIT TYPES AND SIZES.
9. ONE (1) SACK CEMENT/ SAND SLURRY MIX MEETING REQUIREMENTS OF SECTION 945.0.0 UNDER EXISTING PAVING.
10. 3/4-INCH CRUSHED ROCK MEETING REQUIREMENTS OF SECTION 910.11.01

FILE: CP-U-1B.DWG

CENTRAL POINT *CITY OF* *CENTRAL POINT* *PUBLIC WORKS DEPARTMENT*	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED / APPROVED / REVISED	DATE	U-1B
	UTILITY TRENCH			DRAWING No.