

FRAME AND RISER RINGS SHALL BE DOUBLE SEALED WITH "KENT SEAL" TO FORM A WATERTIGHT SEAL. GROUT MAY BE USED FOR STORM SYSTEMS.

PRECAST RISER RINGS

PRECAST MANHOLE CONE

MANHOLE STEPS SHALL NOT BE PROVIDED UNLESS SPECIFIED.

ALL JOINTS SHALL BE DOUBLE SEALED WITH "KENT SEAL" TO FORM A WATERTIGHT SEAL. GROUTED JOINTS MAY BE USED FOR STORM DRAIN

STANDARD PRECAST MANHOLE SECTIONS AS REQUIRED.

MIN. BENCH SLOPE 1:12

PROVIDE FLEXIBLE JOINT WITHIN 18-INCHES OF BARREL (STANDARD RUBBER GASKET JOINT)

MANHOLE BASE SHALL BE A MINIMUM OF 6-INCHES THICK

STANDARD MANHOLE RING AND COVER
MH LID SHOULD BE STAMPED WITH A "D"

FINISH GRADE

VARIABLE
2" MIN.
12" MAX.

SUBGRADE

3'-0"
3/4"-0 CR. ROCK COMPACT
TO 95% AASHTO T-99(A)

VARIES
3/4"-0 CR. ROCK COMPACT
TO 90% AASHTO T-99(A)

TOP OF PIPE
VARIES
3/4"-0 CRUSHED ROCK WELL
TAMPED TO 6-INCHES ABOVE PIPE

48"

12" MIN.
18" MAX.

6" MIN.

5'-8" MIN.

NO SCALE

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.

PROVIDE FLEXIBLE JOINT, TYP. WITHIN 18-INCHES OF BARREL

FILE: CP-SD-1.DWG



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UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

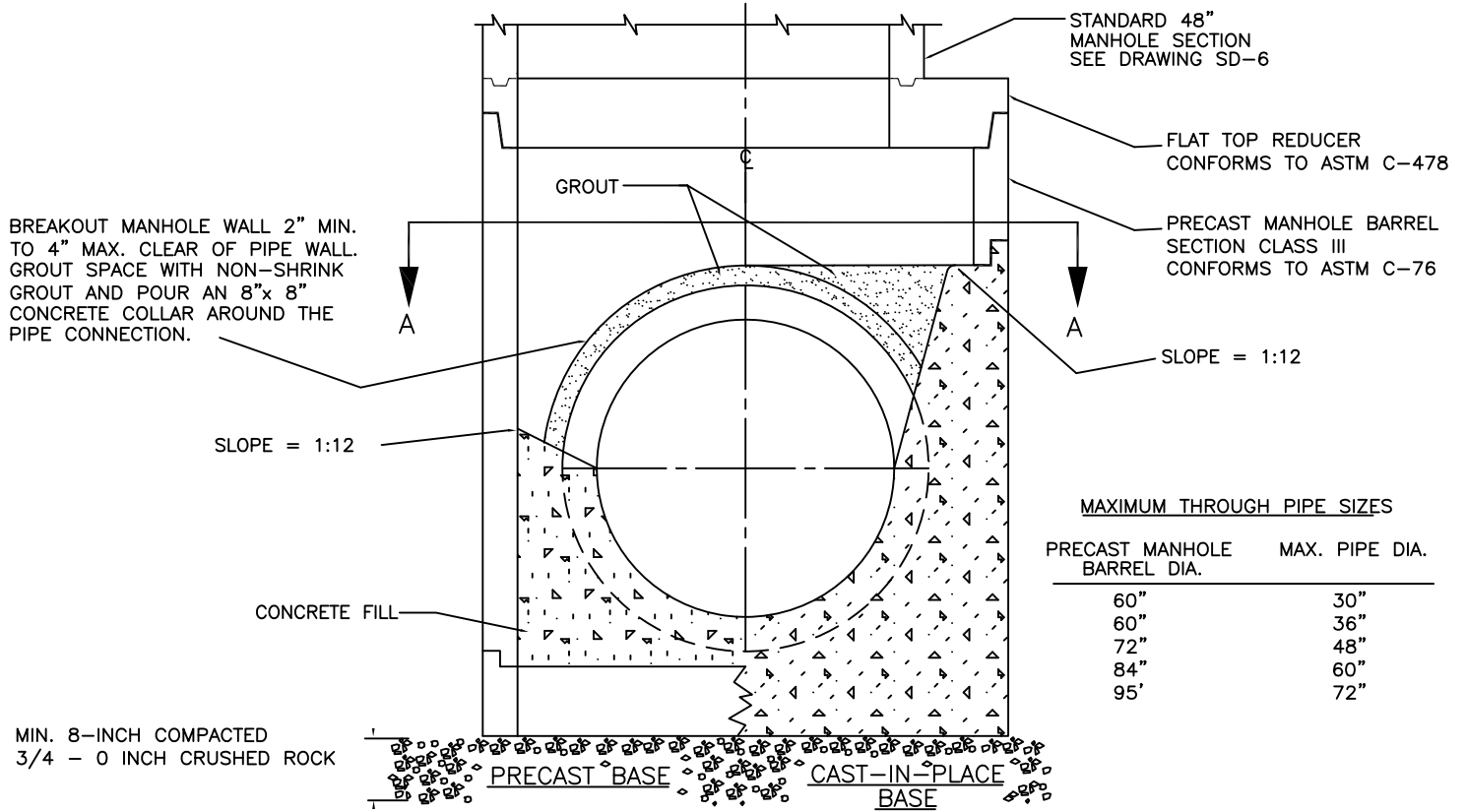
STORM SEWER MANHOLE - SMALL PIPE

REVISED DATE

2/05/2016

SD-1

DRAWING No.

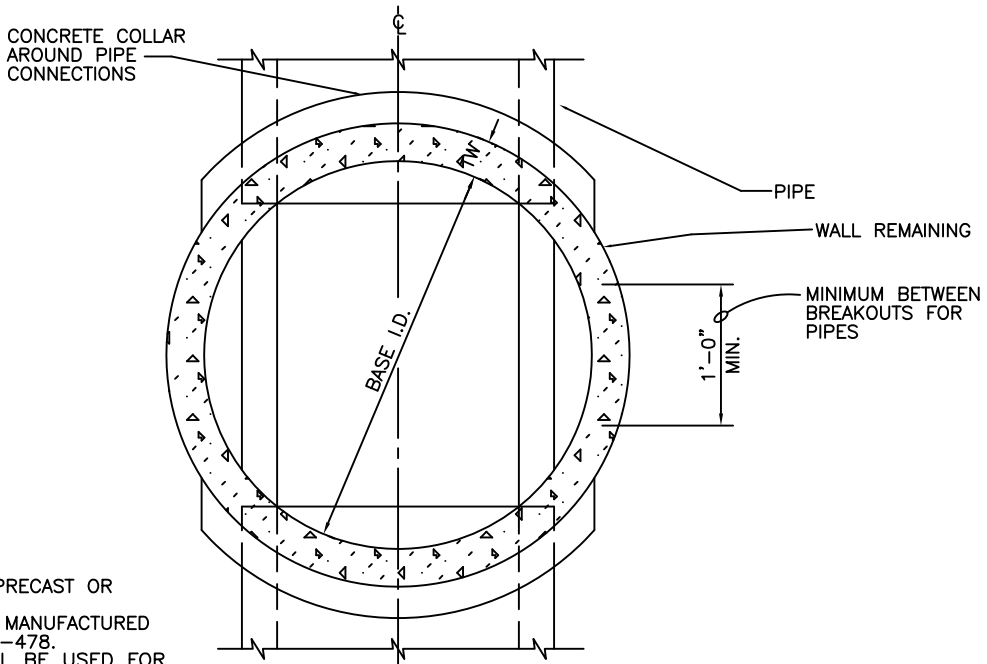


MAXIMUM THROUGH PIPE SIZES

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

TYPICAL SECTION

NO SCALE



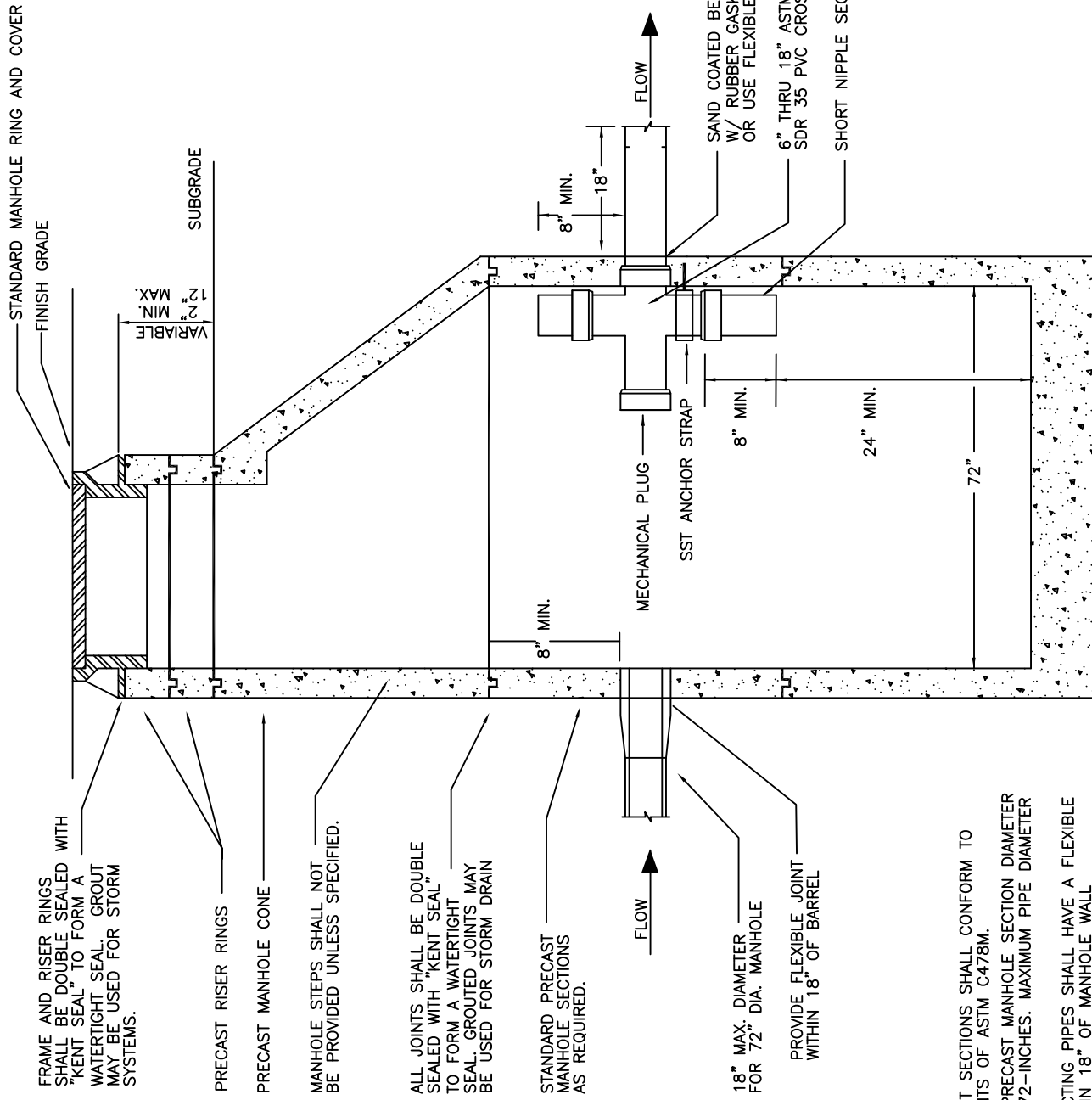
SECTION A-A

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



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.

FILE: CP SD-2B.DWG



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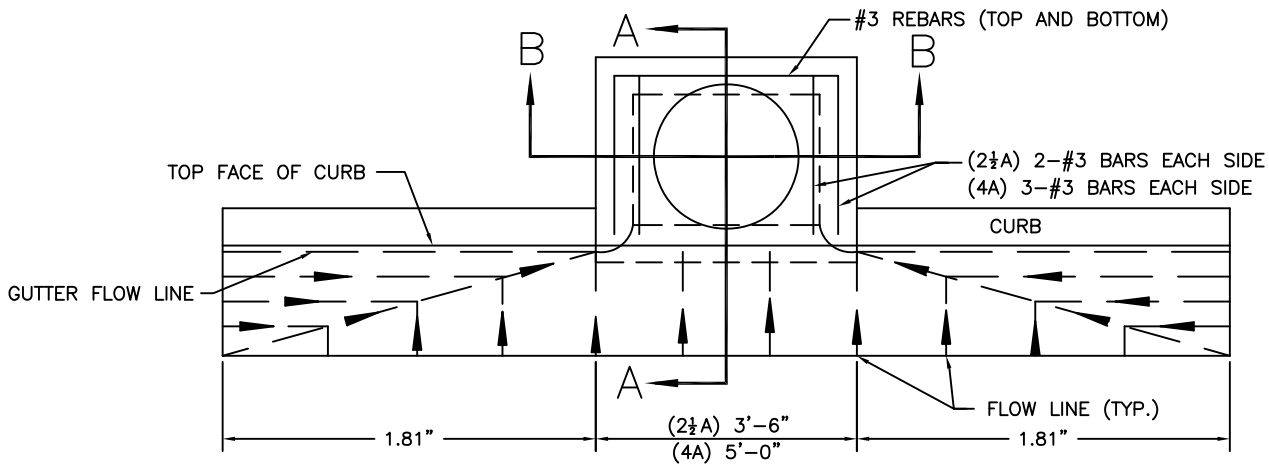
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STORM SEWER MANHOLE WITH SEDIMENT BASIN

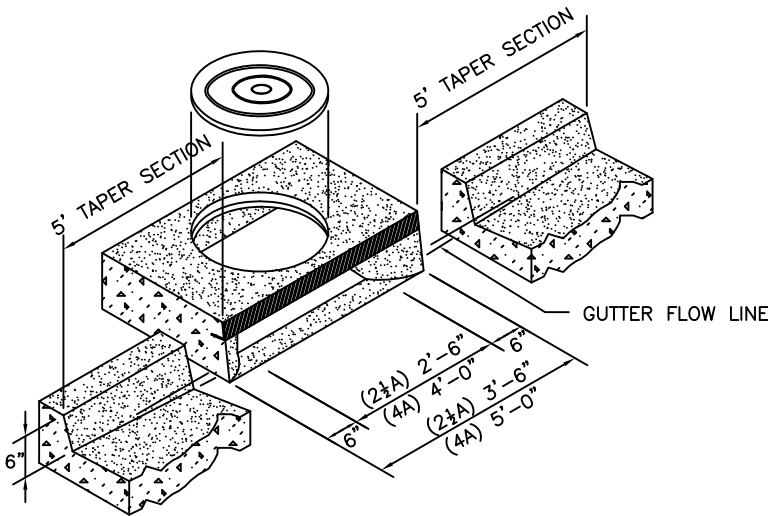
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SD-2B

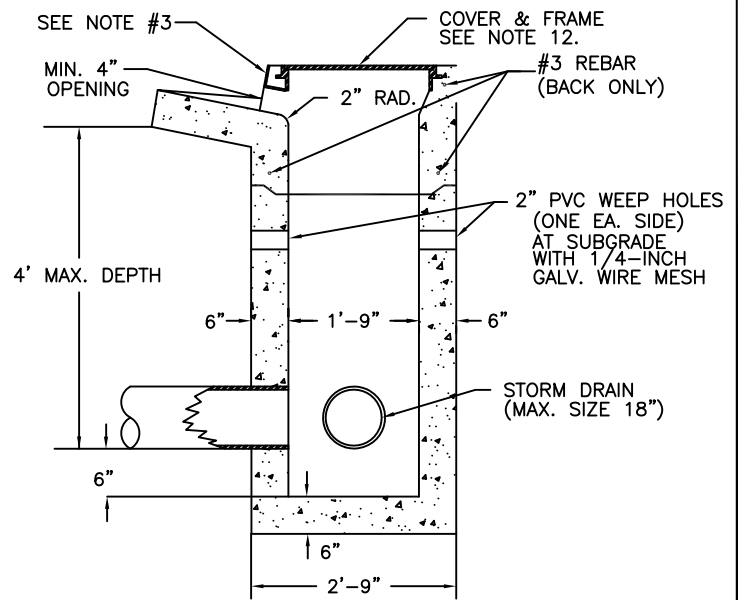
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PLAN VIEW



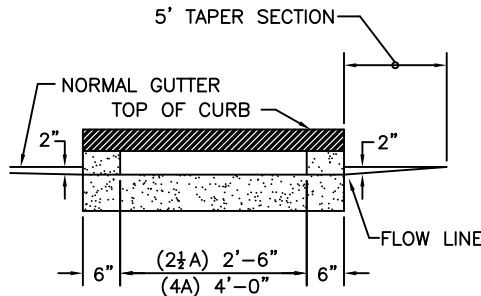
PERSPECTIVE VIEW



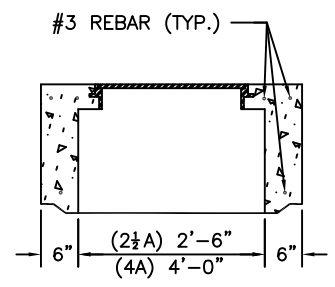
ALL CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION **SECTION A-A**

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:
 (2 1/2) 2-HORIZ. #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% T-99(A) 3/4"-0" CRUSHED ROCK, MIN. 6" THICK), OR ANOTHER APPROVED BASE
6. SET SECTION JOINTS IN 1:2 MORTAR AND MORTAR 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. ALL CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 930.00.00- PORTLAND CEMENT CONCRETE (PCC)
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



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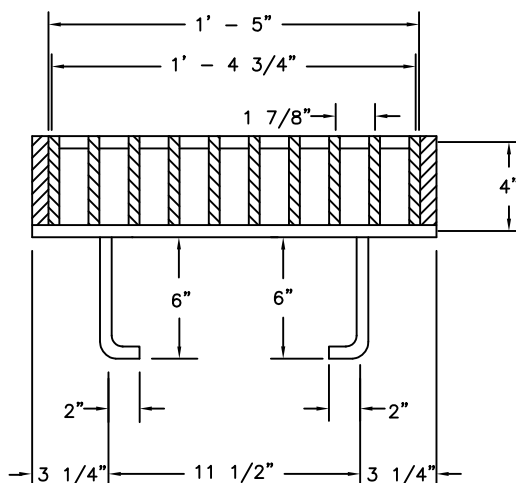
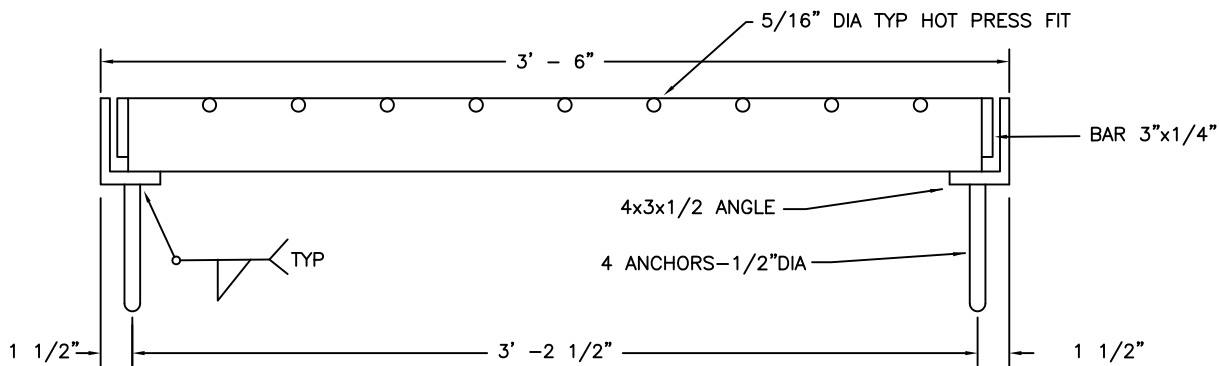
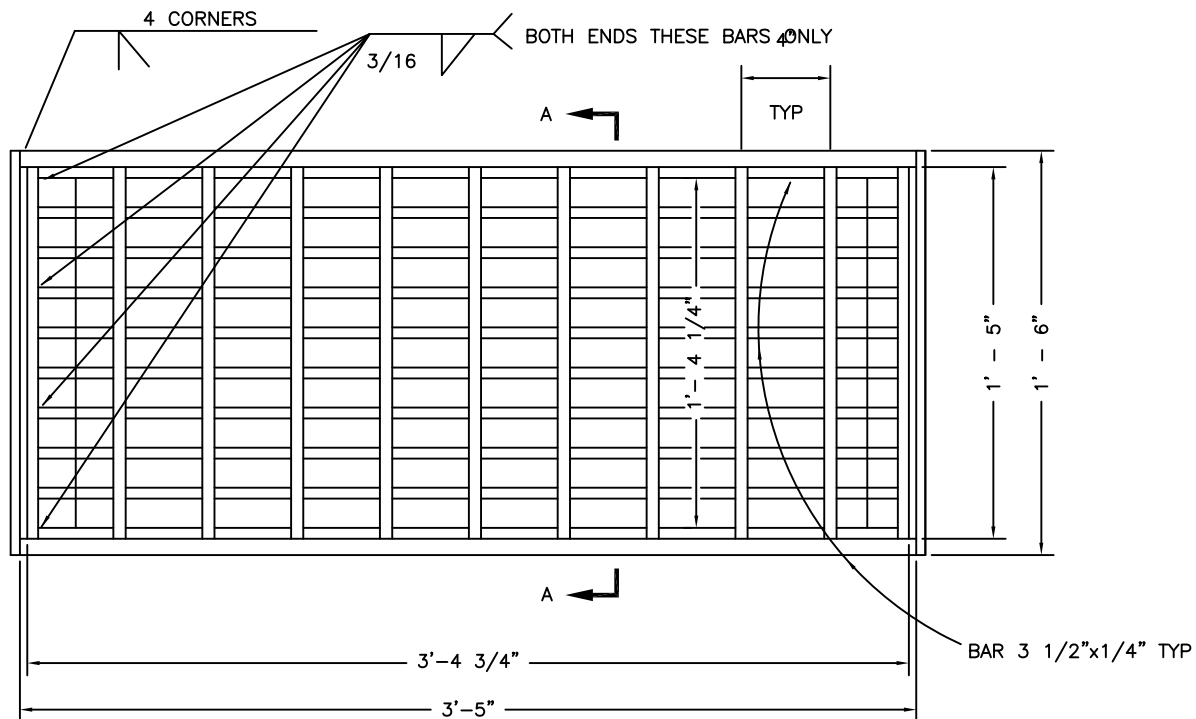
CONCRETE CURB INLET

REVISED DATE

2/05/2016

SD-3

DRAWING No.



NOTE:
 AT THE CONTRACTOR'S
 OPTION, END SPACING OF 5/16"
 CROSS RODS MAY BE 2\"/>

SECTION A-A

FILE: CP-SD-5.DWG



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CURB INLET B FRAME & GRATE

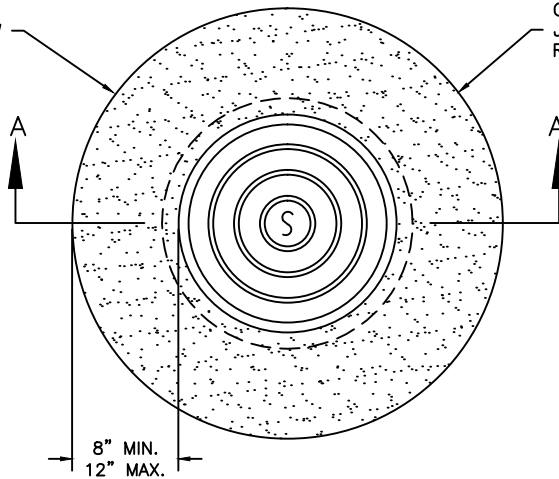
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SD-5

DRAWING No.

SEE NOTES AND OPTIONS BELOW

CUT CIRCLE IN A.C. WITH SAW OR JACKHAMMER & SPADE BIT AND REMOVE PAVEMENT.



CAST IRON SUBURBAN COVER & FRAME PER OREGON APWA STD. DWG. RD356

MANHOLE RISER RINGS

EXISTING PAVEMENT

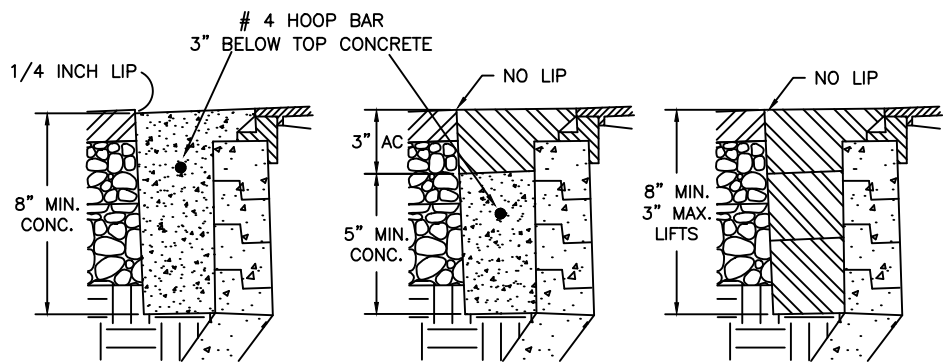
SEE OPTIONS BELOW

ROADWAY BASE

8" MIN.
12" MAX.

GROUT RINGS IN PLACE
-ADJUST TO GRADE

SECTION A-A



OPTION 1:
ALL CONCRETE

OPTION 2:
5" CONCRETE
3" AC

OPTION 3:
ALL AC
(SEE NOTE 2)

MANHOLE COLLAR OPTIONS

NOTES:

1. ALL CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 930.00.00 PORTLAND CEMENT CONCRETE (PCC)
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



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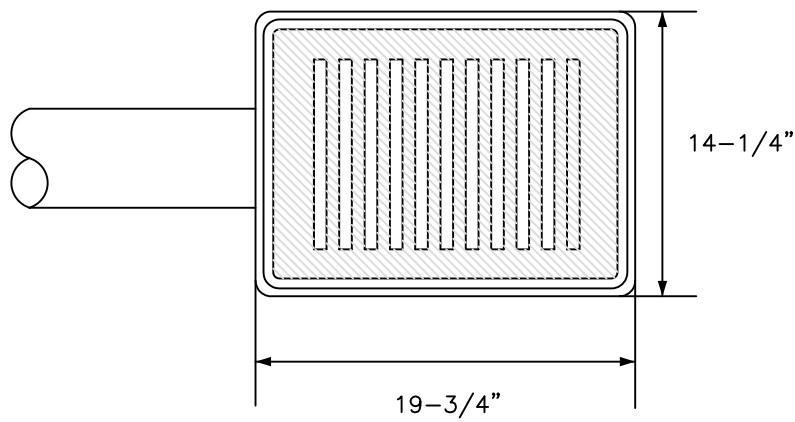
REVISED DATE

2/05/2016

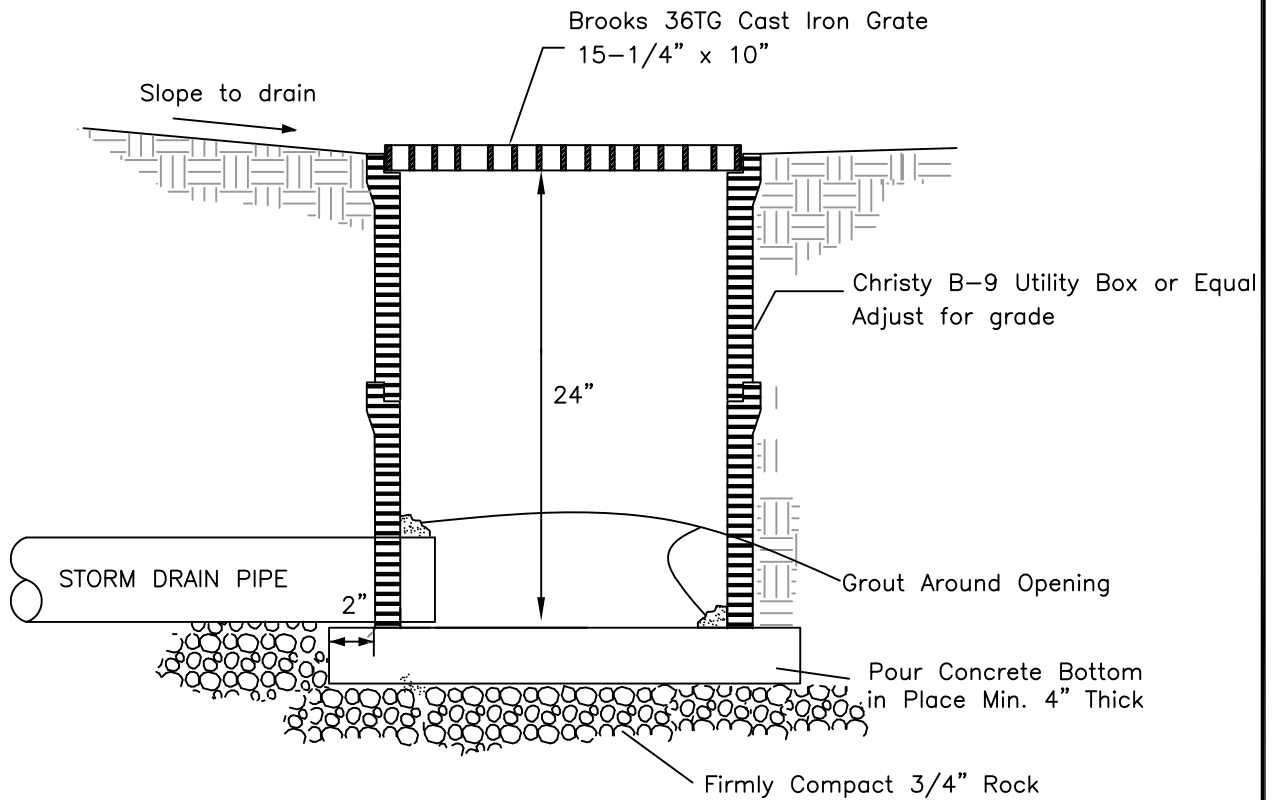
SD-6

MANHOLE ADJUSTMENT DETAIL

DRAWING No.



PLAN



PROFILE

TYPE "A" AREA DRAIN

For Storm Drain Pipes 6" Dia. or Less

FILE: CP-SD-7.DWG



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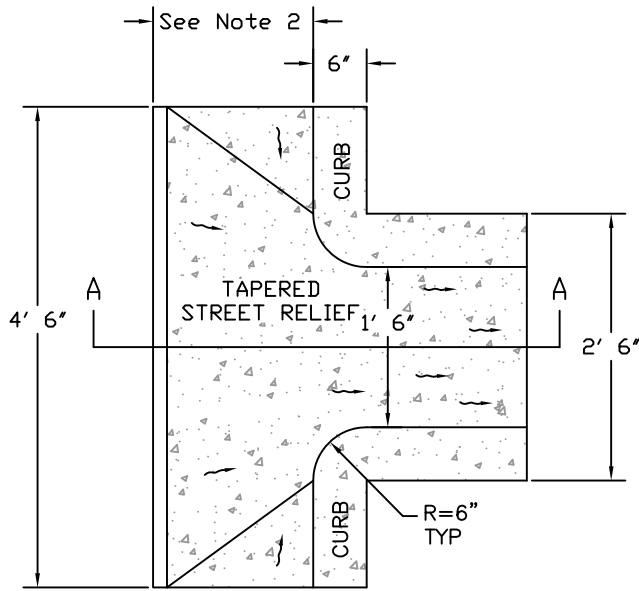
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TYPE 'A' AREA DRAIN

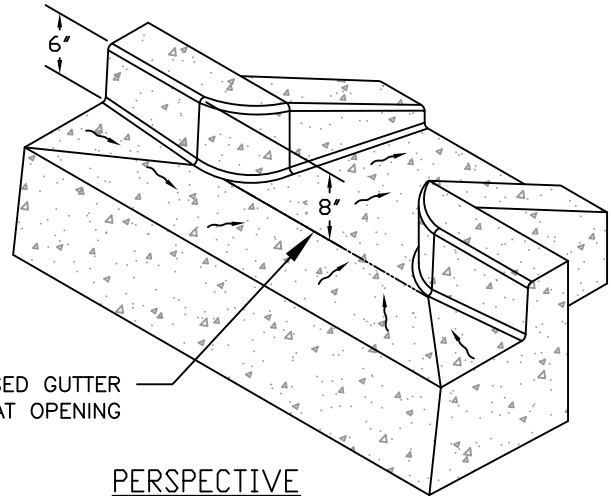
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SD-7

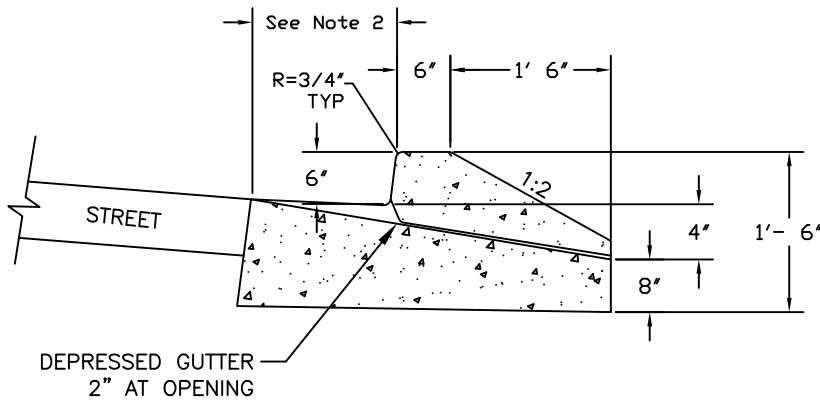
DRAWING No.



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



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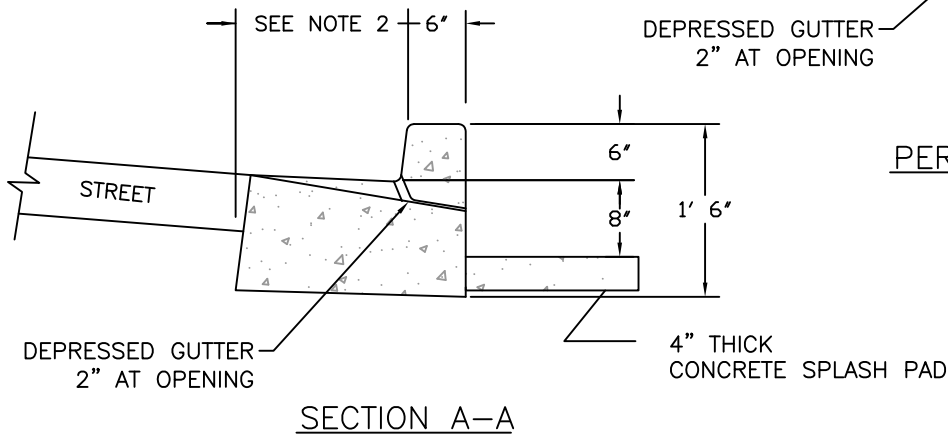
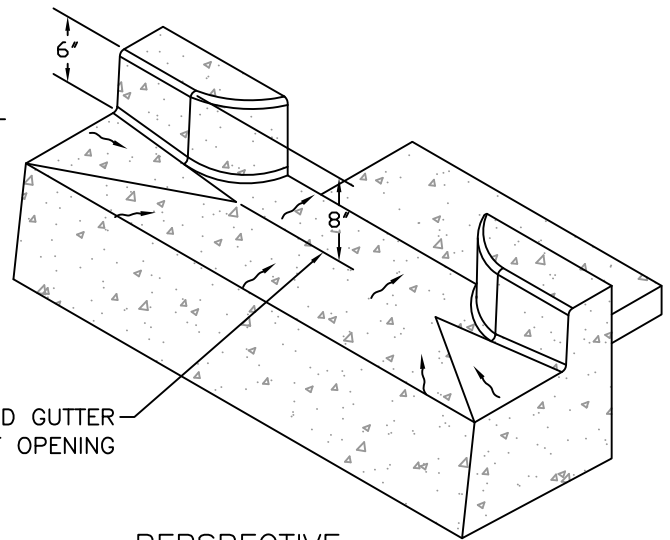
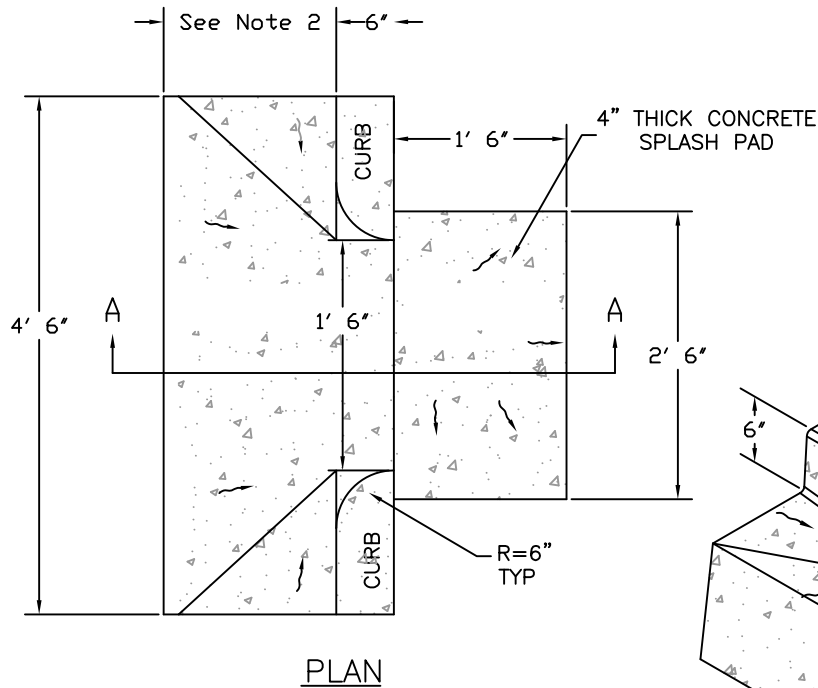
UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

LID Concrete Inlet with Wingwalls

CHECKED	DATE
APPROVED	DATE
REVISED	DATE

SD-8

DRAWING No.



LID Concrete Inlet

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-9.DWG



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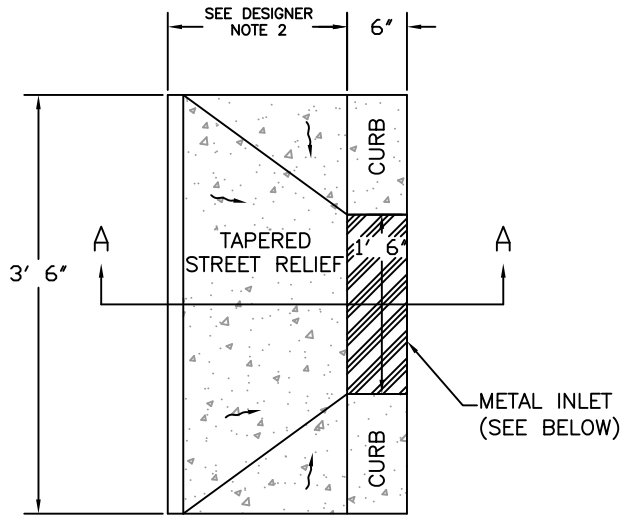
REVISED DATE

2/28/2016

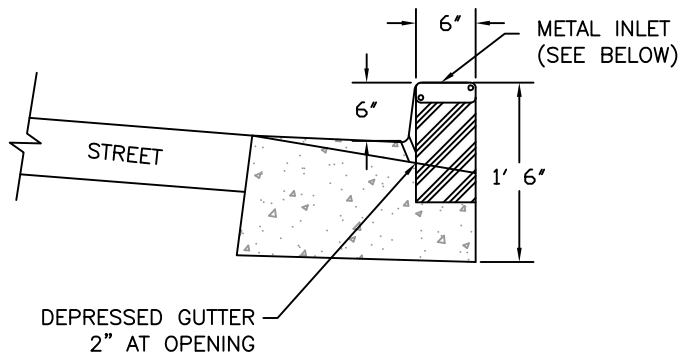
SD-9

LID Concrete Inlet

DRAWING No.

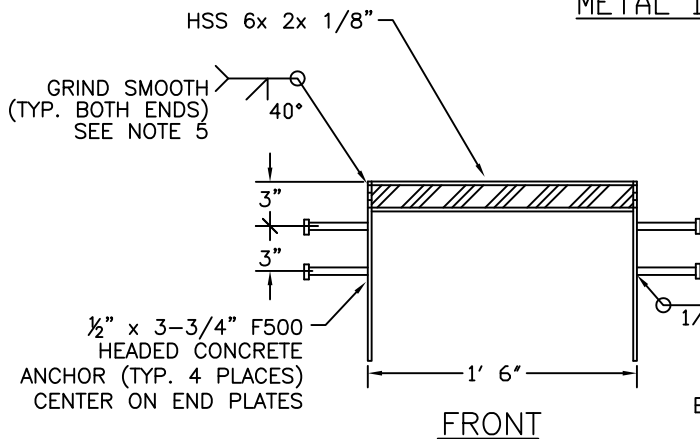


PLAN

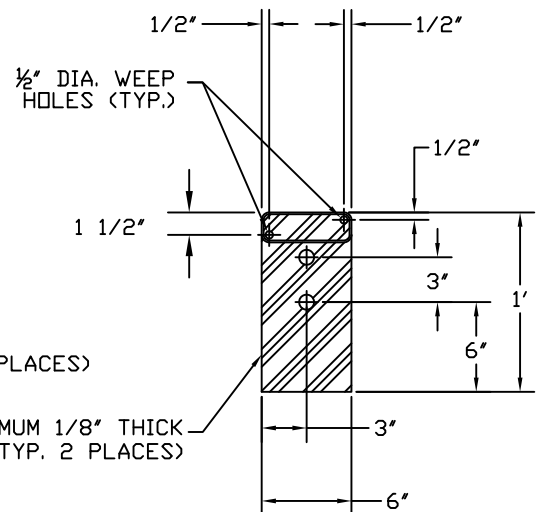


SECTION A-A

METAL INLET



FRONT



SIDE

LID Metal Inlet

NTS

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 axes 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. 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.

FILE: CP-SD-10.DWG



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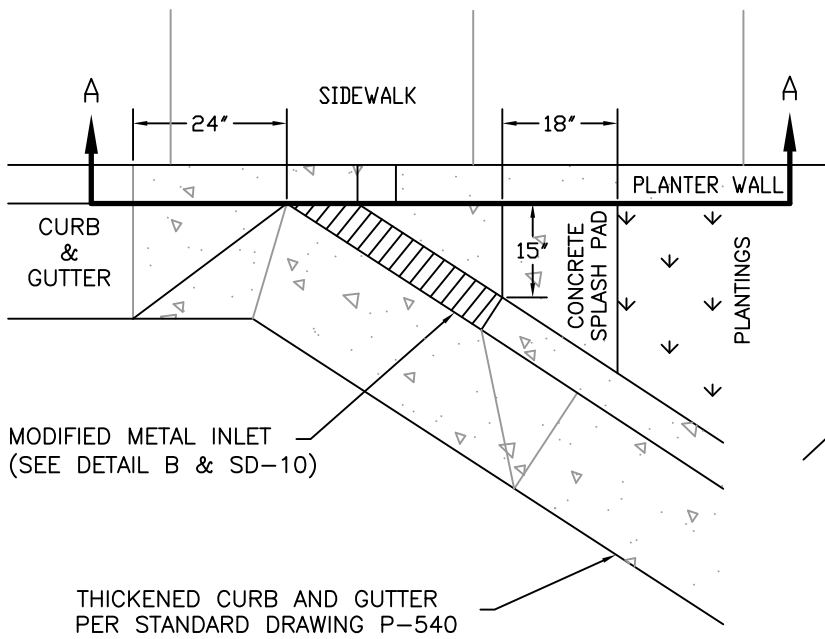
UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

LID Metal Inlet

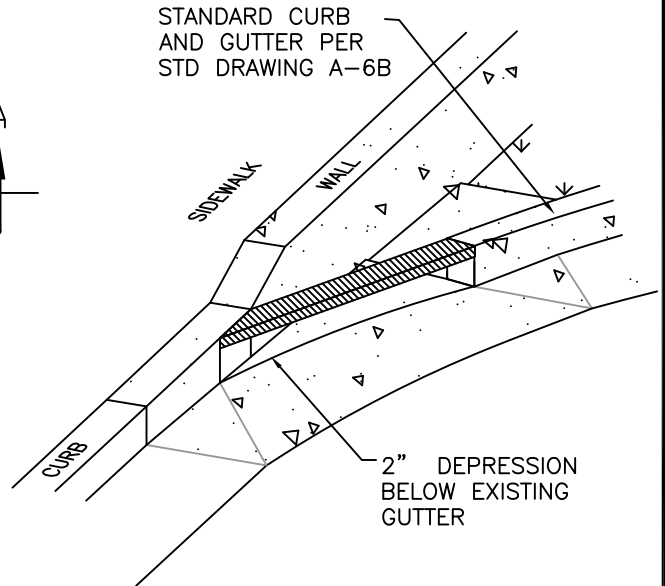
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SD-10

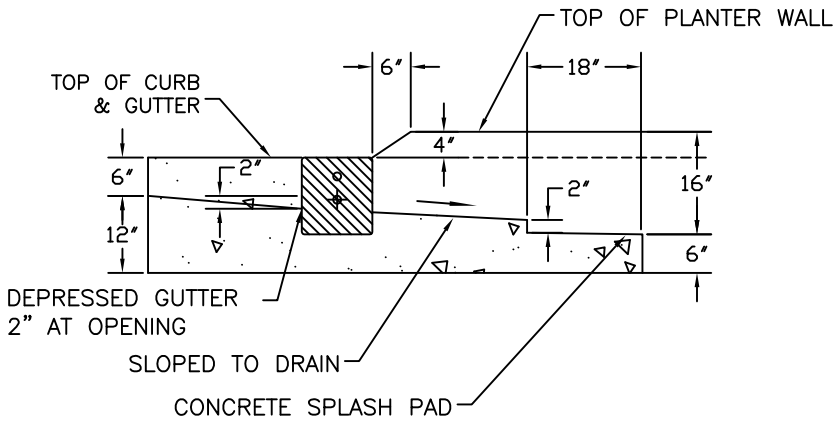
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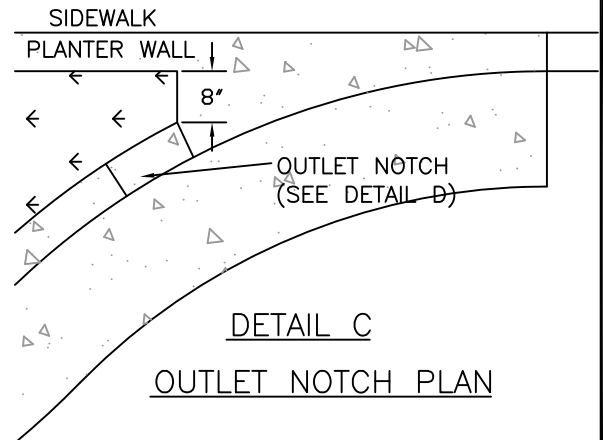
DETAIL A - INLET PLAN



DETAIL B
INLET PERSPECTIVE



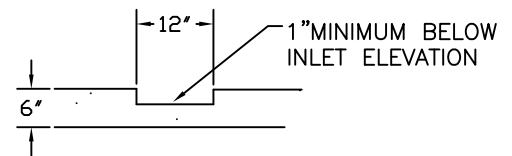
SECTION A-A



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



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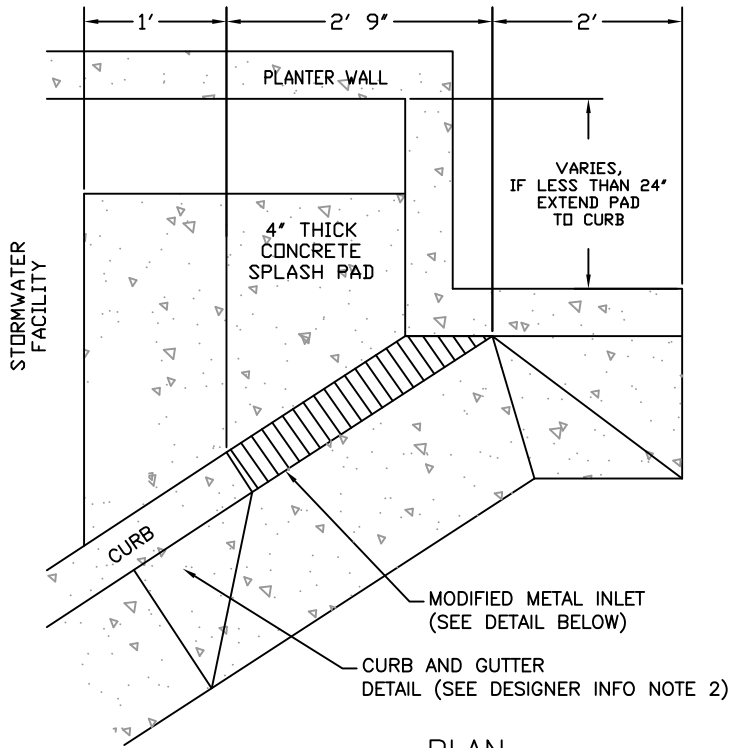
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LID Inlet & Outlet for Curb Extensions

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SD-11

DRAWING No.



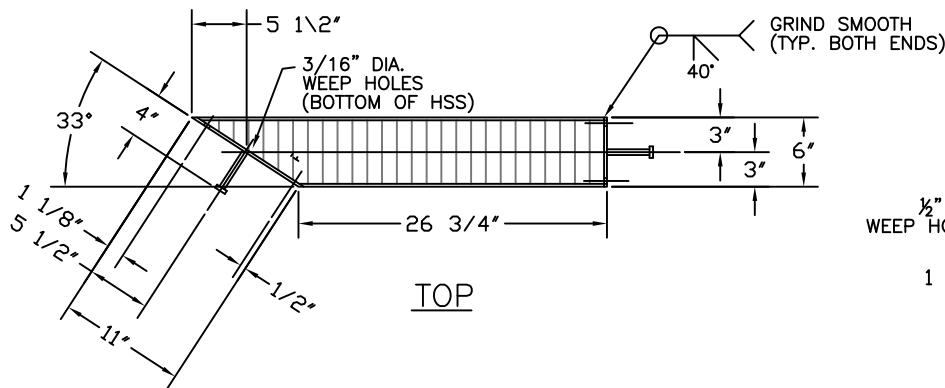
PLAN

DESIGNER INFORMATION:

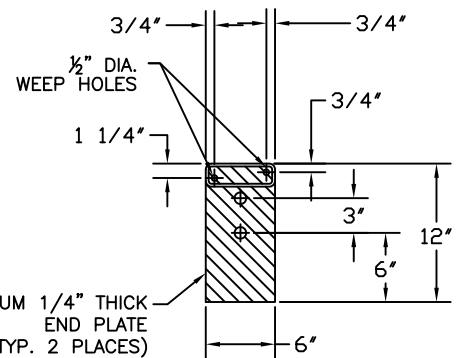
1. Splash pad are required at all inlets.
2. Refer to Standard Drawing A-6B. Match gutter pan of adjacent curb and gutter.
3. Design vertical wheel load is 8.5kips (1/2 of tandem axle weight specified in FHWA-HOP-06-105).

CONSTRUCTION NOTES:

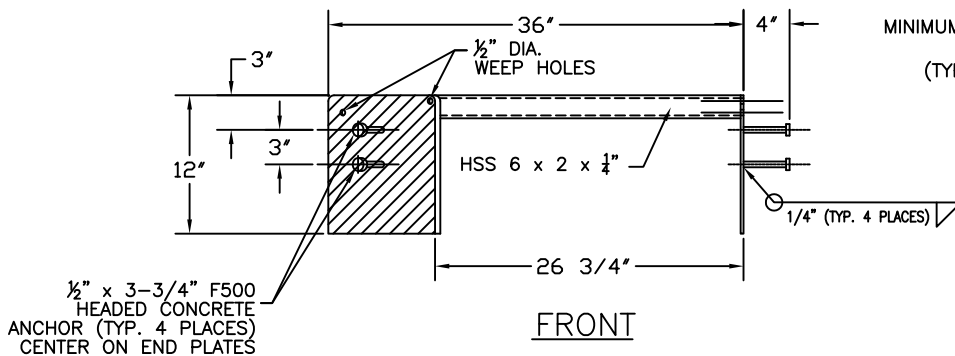
1. Headed concrete anchors shall meet the requirements of ASTM A-108.
2. HSS 6 x 2 x 1/4 Channel shall meet the requirements of ASTM A-500 Grade B.
3. End Plates shall meet the requirements of ASTM A-36.
4. Entire assembly shall be Hot-Dip Galvanized in accordance with ASTM A-123.
5. Single Bevel Groove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



TOP



END PLATE DETAIL



FRONT

LID Modified Metal Inlet Assembly

NTS

FILE: CP-SD-12.DWG



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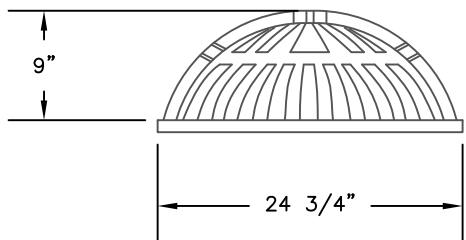
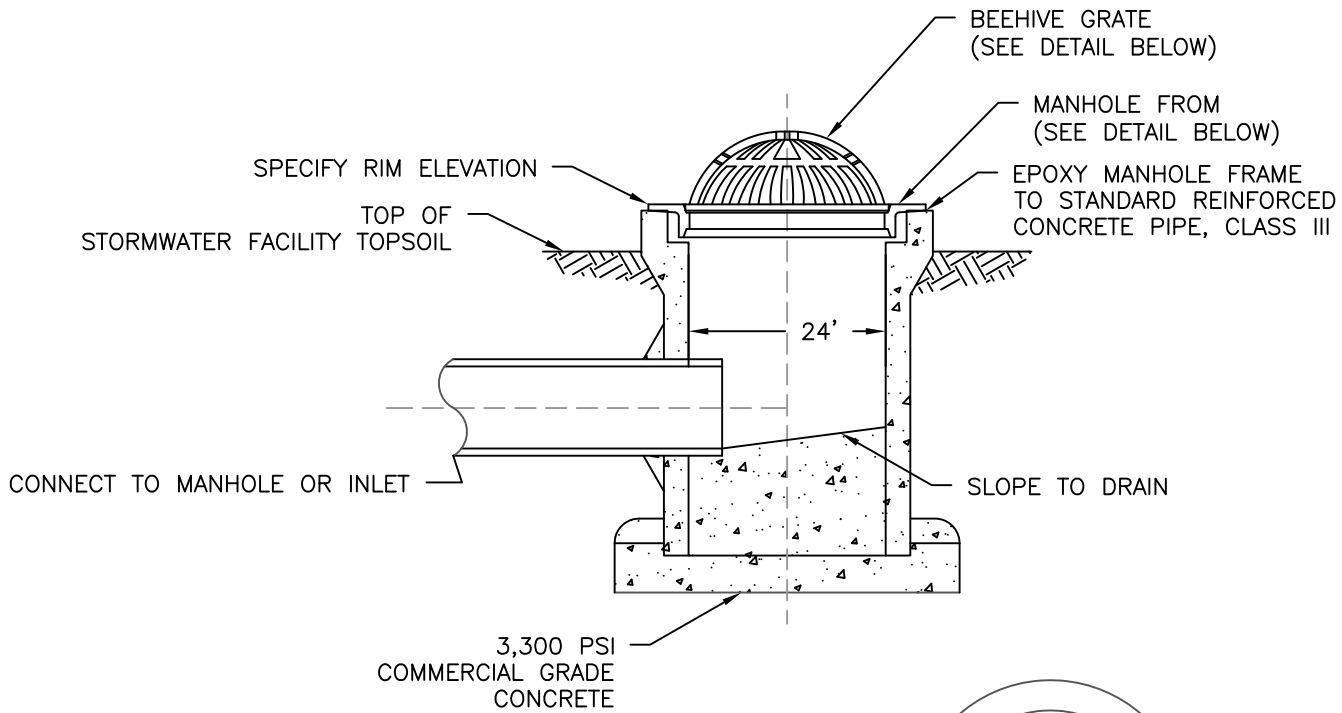
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LID Modified Metal Inlet Assembly

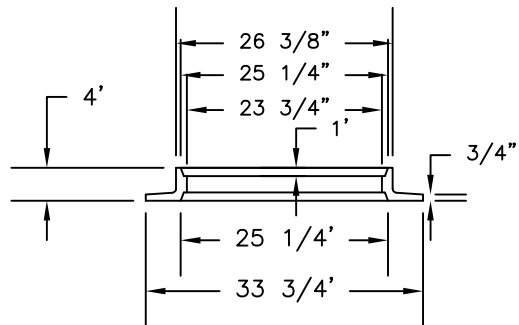
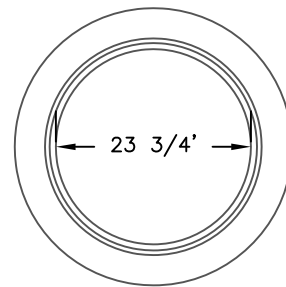
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SD-12

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



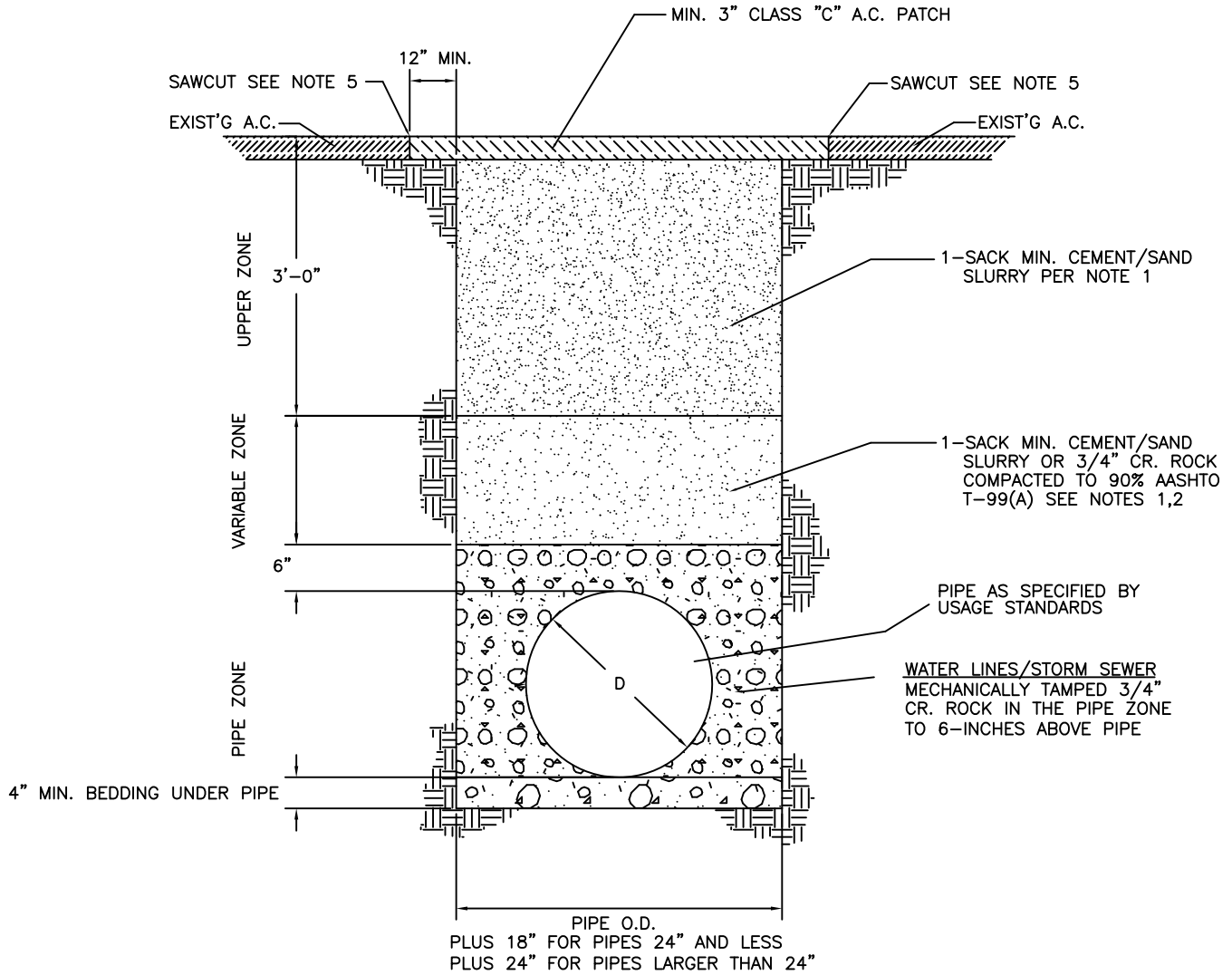
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STORMWATER OVERFLOW STRUCTURES

CHECKED	DATE
APPROVED	DATE
MHO REVISED	3/06/14 DATE

SD-13
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
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.
5. AFTER BACKFILL HAS BEEN PLACED, UTILIZE A "T-CUT" METHOD IN THE EXISTING ASPHALT BY SAW CUTTING A MINIMUM OF 6" WIDER THAN THE TRENCH ON EACH SIDE INCLUDING UNDERMINED AREAS.

FILE: CP-T-1.DWG



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UNIFORM STANDARDS
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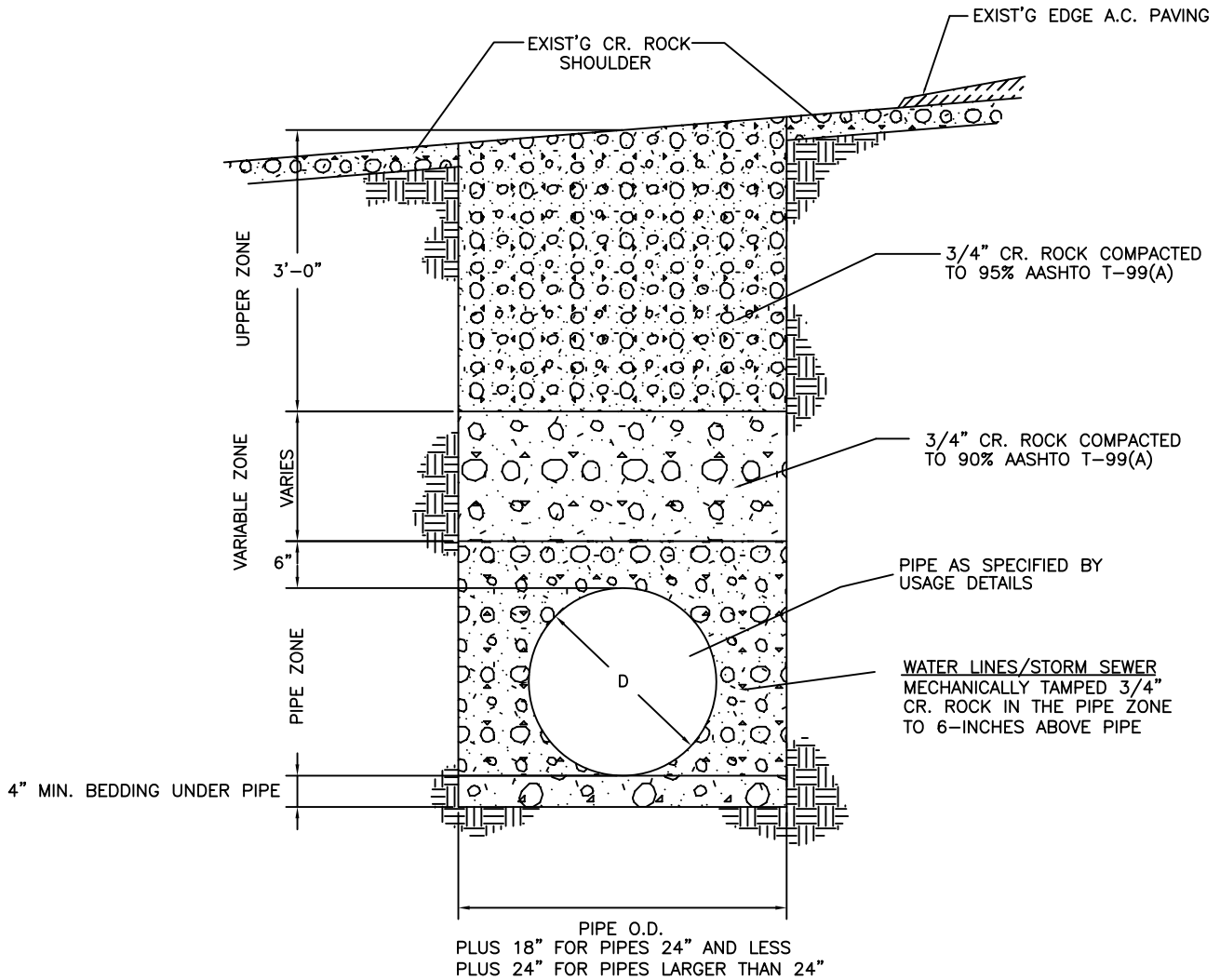
TRENCH SECTION

REVISED DATE

2/05/2016

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



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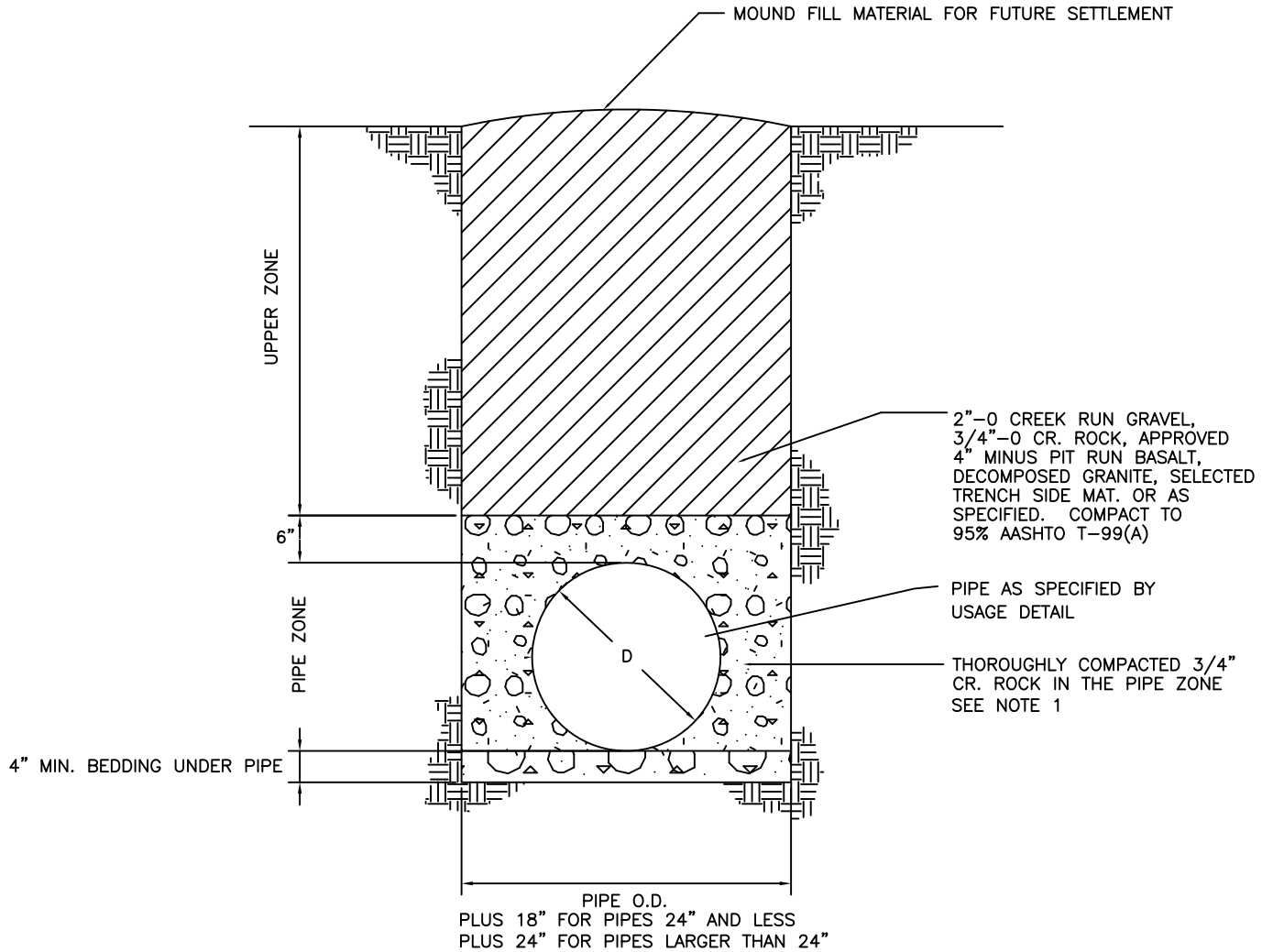
TRENCH SECTION

REVISED DATE

2/05/2016

T-2

DRAWING No.



TRENCH SECTION IN OPEN GROUND

NO SCALE

NOTES:

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

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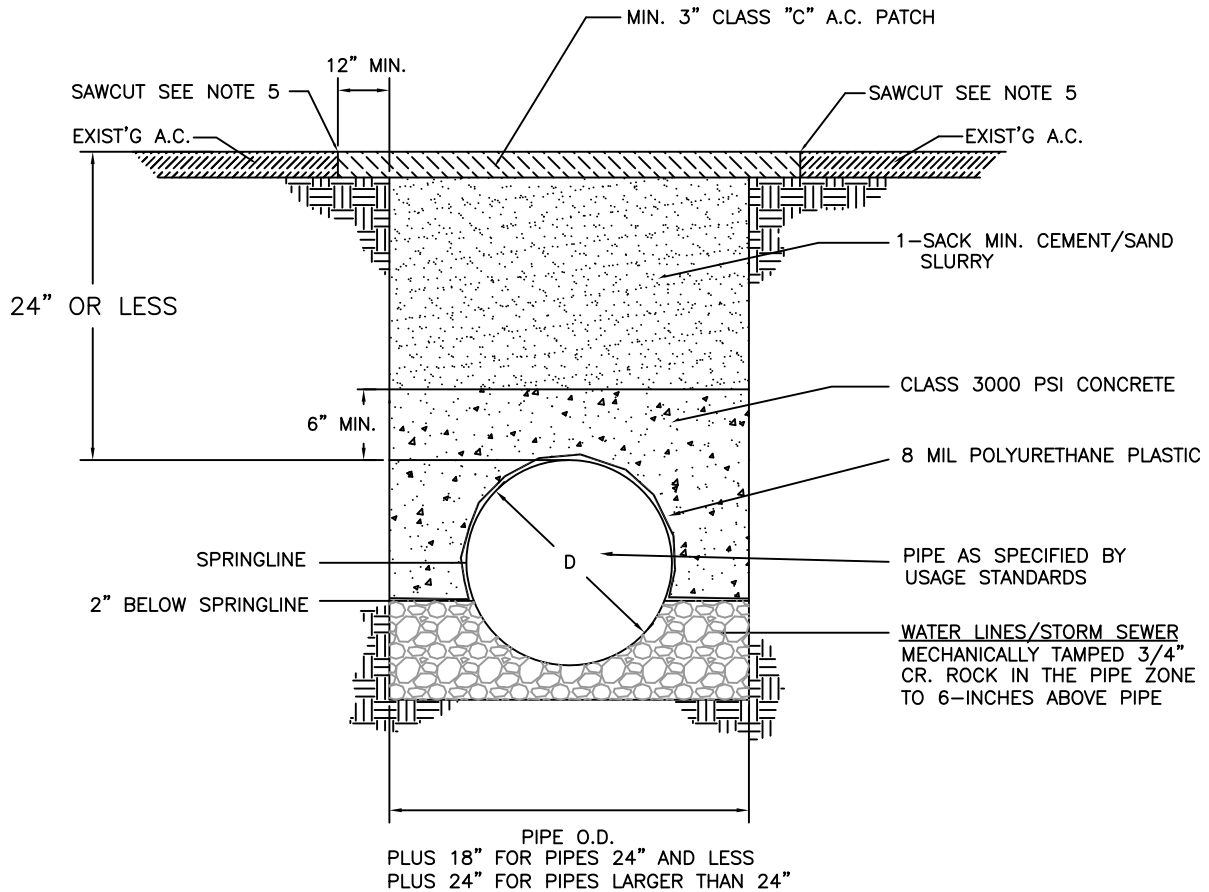
TRENCH SECTION

REVISED DATE

2/05/2016

T-3

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 PLATE LOCKS TO ALLOW SMOOTHER TRANSITION.
 - a) MINIMUM 12" LAP OF STEEL PLATES ONTO EXISTING PAVEMENT.
 - b) MINIMUM 3/4" STEEL PLATE THICKNESS.
5. AFTER BACKFILL HAS BEEN PLACED, UTILIZE A "T-CUT" METHOD IN THE EXISTING ASPHALT BY SAW CUTTING A MINIMUM OF 6" WIDER THAN THE TRENCH ON EACH SIDE INCLUDING UNDERMINED AREAS.

FILE: CP-T-4.DWG



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UNIFORM STANDARDS
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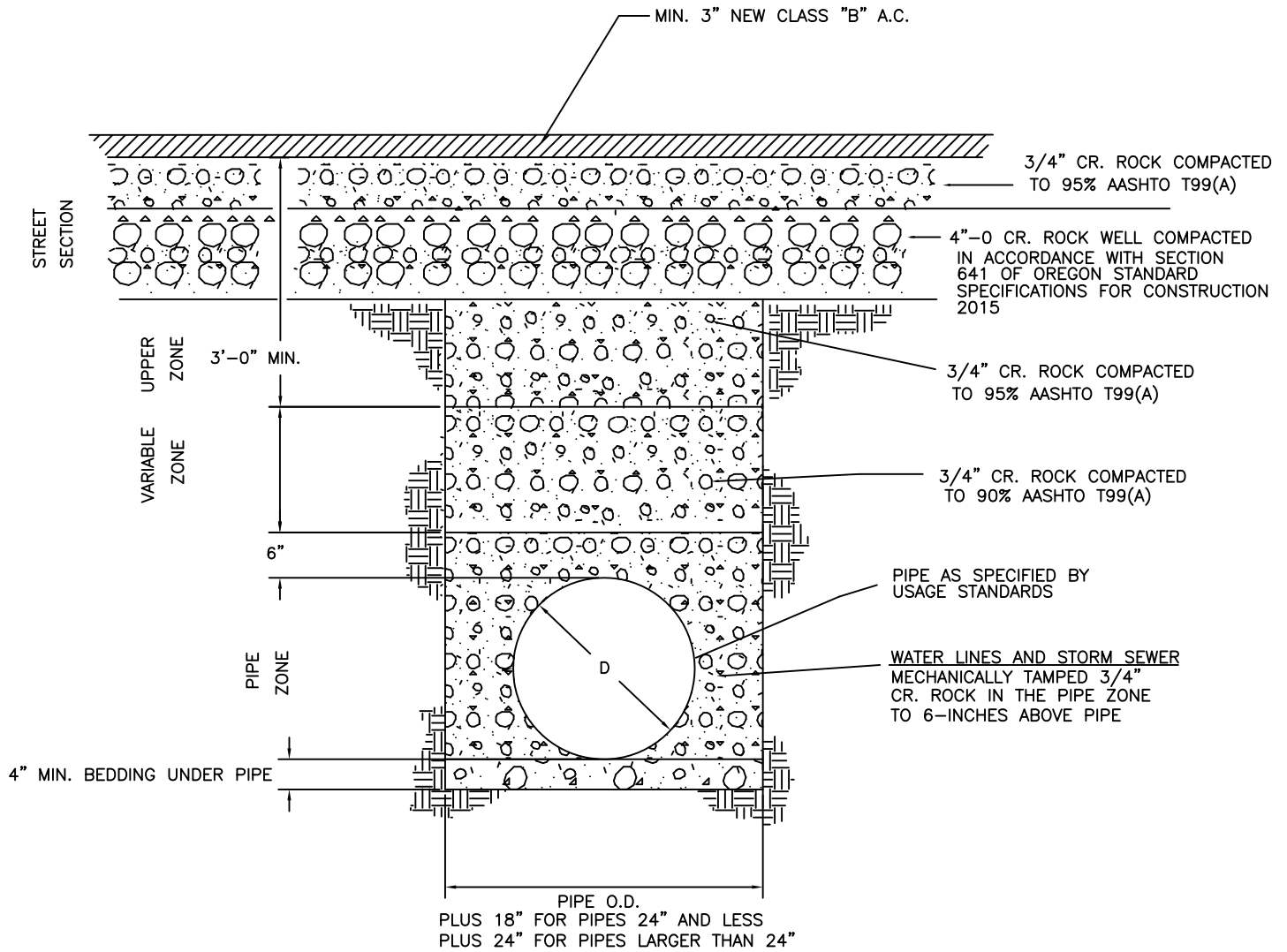
TRENCH SECTION

REVISED

2/05/2016

T-4

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



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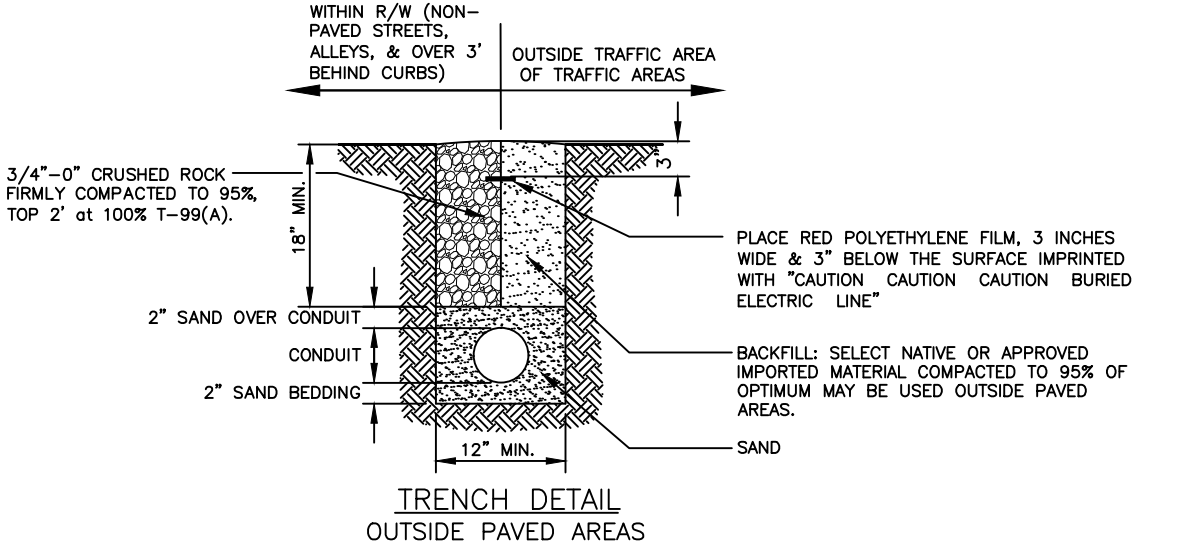
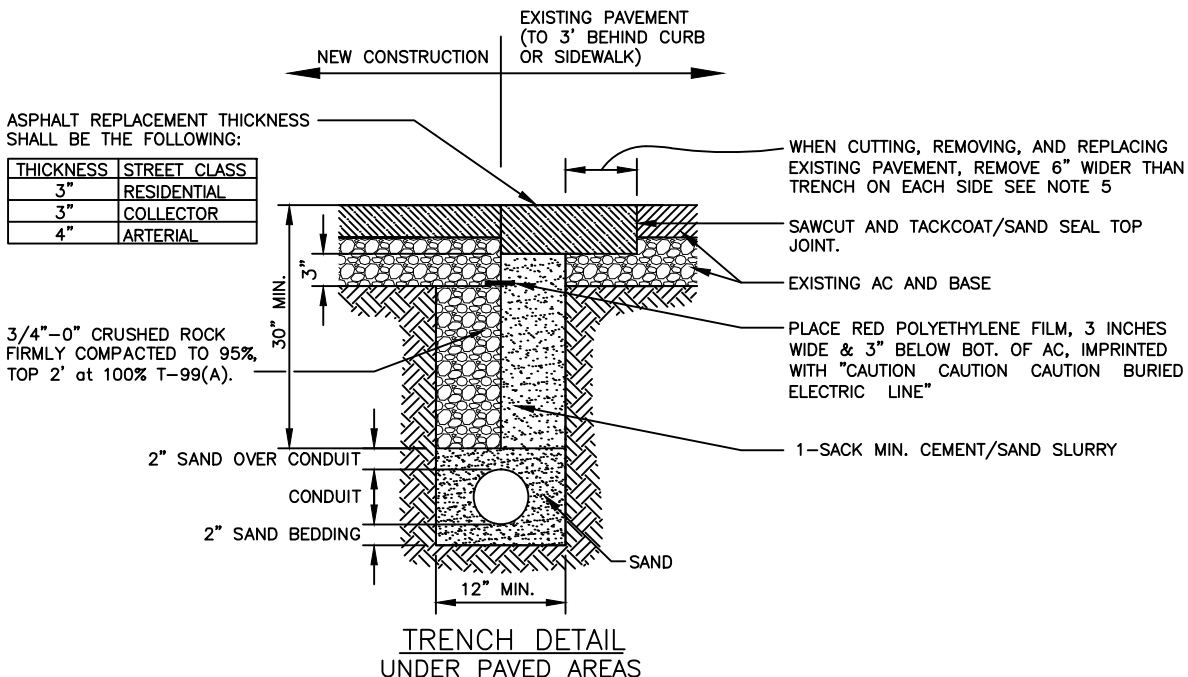
TRENCH SECTION

REVISED DATE

2/05/2016

T-5

DRAWING No.

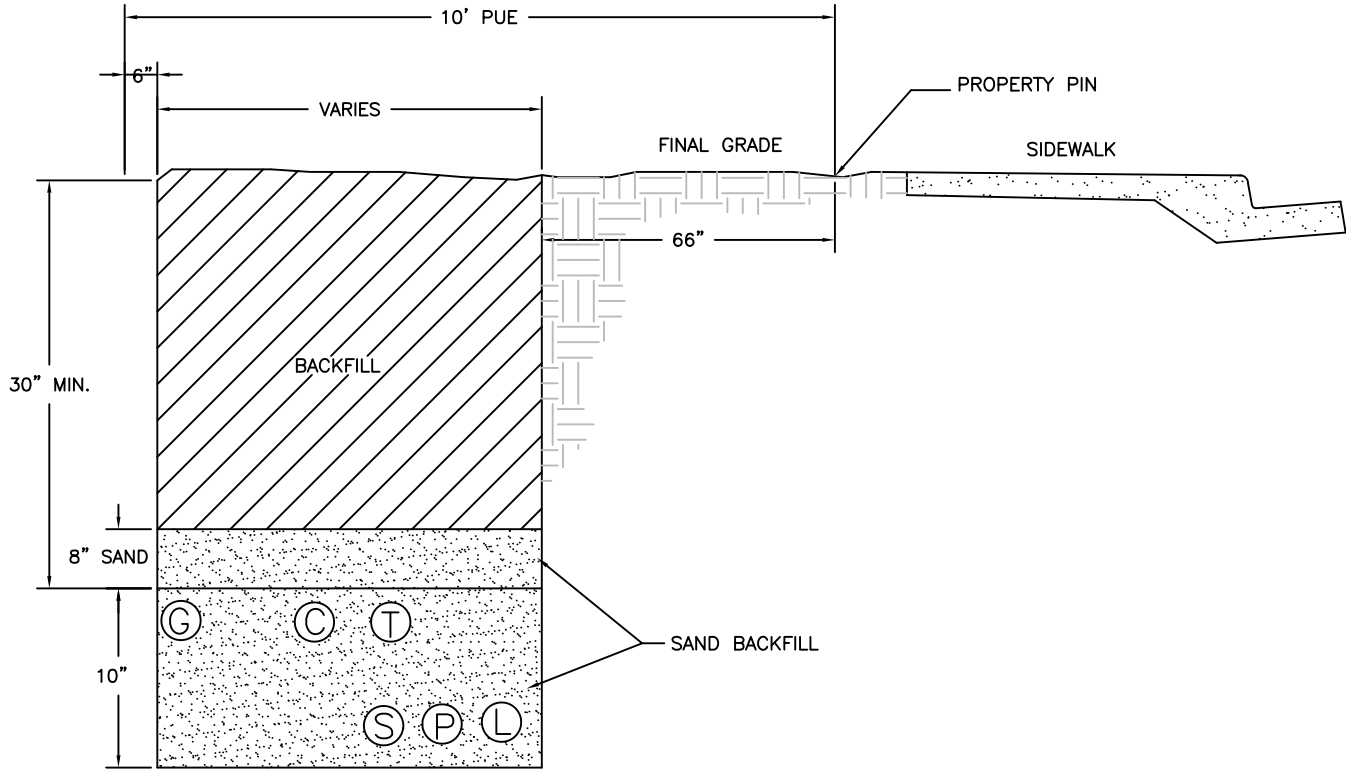


ELECTRICAL CONDUIT TRENCH

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, TRENCH MUST PLATED IF NOT ACTIVELY BEING WORKED ON.
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.
5. AFTER BACKFILL HAS BEEN PLACED, UTILIZE A "T-CUT" METHOD IN THE EXISTING ASPHALT BY SAW CUTTING A MINIMUM OF 6" WIDER THAN THE TRENCH ON EACH SIDE INCLUDING UNDERMINED AREAS.
6. ALL SAND BEDDING WITHIN THE PAVED SECTION OF THE STREET, WILL BE COMPACTED PER SECTION 910.11.01(C)

FILE: CP-T-6.DWG



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.
9. ALL SAND BEDDING WITHIN THE PAVED SECTION OF THE STREET, WILL BE COMPACTED PER SECTION 910.11.01(C)

FILE: CP-U-1A.DWG



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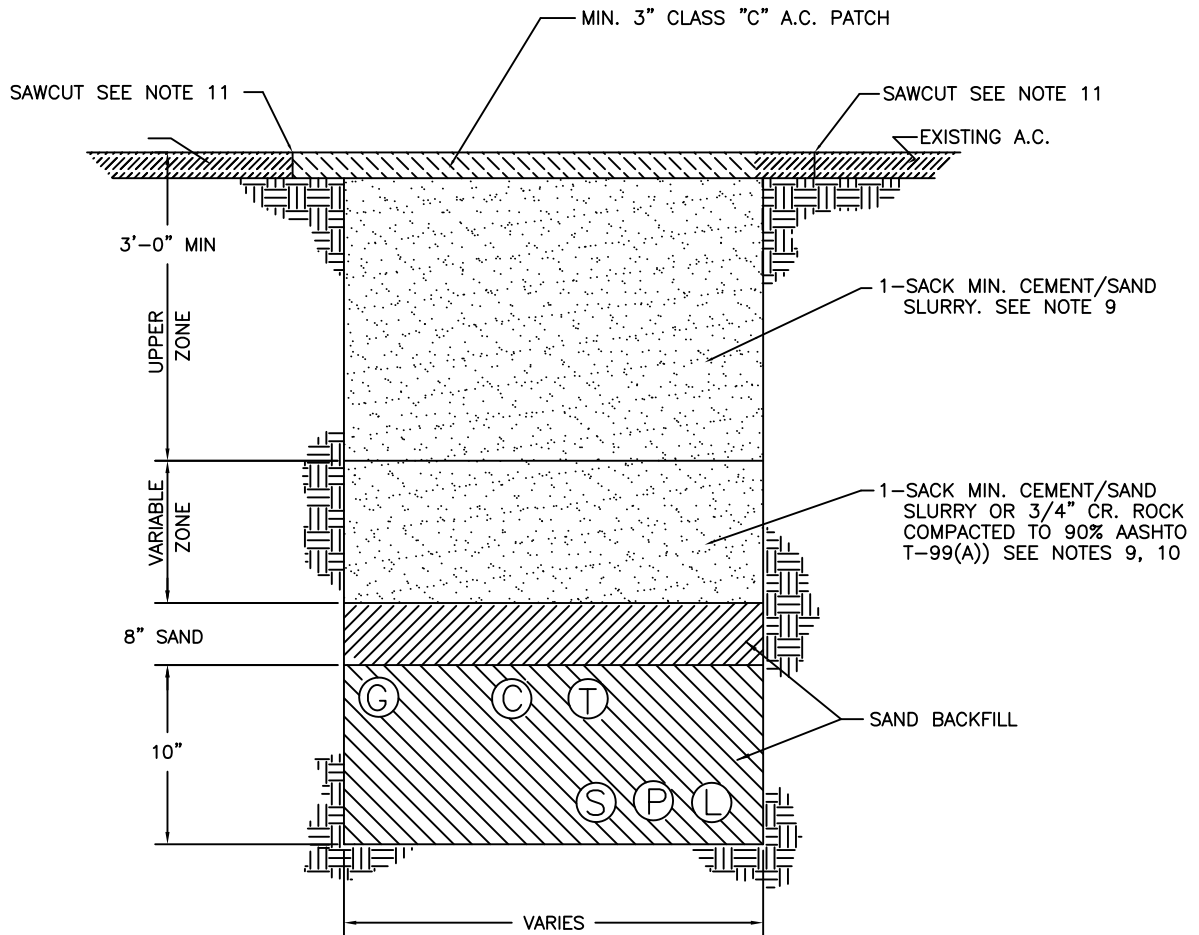
UTILITY TRENCH

REVISED DATE

2/05/2016

U-1A

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 945.00.00 UNDER EXISTING PAVING.
10. 3/4-INCH CRUSHED ROCK MEETING REQUIREMENTS OF SECTION 910.11.01
11. AFTER BACKFILL HAS BEEN PLACED, UTILIZE A "T-CUT" METHOD IN THE EXISTING ASPHALT BY SAW CUTTING A MINIMUM OF 6" WIDER THAN THE TRENCH ON EACH SIDE INCLUDING UNDERMINED AREAS.
12. ALL SAND BEDDING WITHIN THE PAVED SECTION OF THE STREET, WILL BE COMPACTED PER SECTION 910.11.01(C)

FILE: CP-U-1B.DWG



CITY OF
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UNIFORM STANDARDS
FOR
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UTILITY TRENCH

REVISED DATE

10/28/2016

U-1B

DRAWING No.