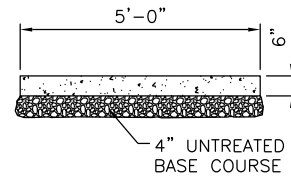


1

SURVEY MONUMENT SECTION

SCALE: NOT TO SCALE



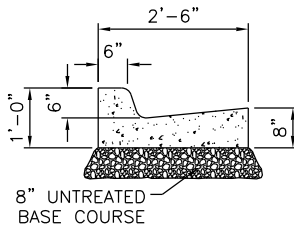
NOTES:

1. CRACK CONTROL JOINTS AT 4 FT.
2. EXPANSION JOINTS AT 40 FT.
3. 4" THICK SIDEWALK MAY BE INSTALLED IF A SITE PLAN IS PROVIDED TO THE CITY PRIOR TO CONSTRUCTION, BUT CONCRETE SHALL BE 6" THICK THRU DRIVEWAYS AND DESIGNATED VEHICLE CROSSINGS. IF A SITE PLAN IS NOT PROVIDED, 6" THICK CONCRETE MUST BE INSTALLED THROUGHOUT THE PROJECT.
4. SIDEWALK MAY BE WIDER WHERE SPECIFIED BY CITY ENGINEERING DEPARTMENT.
5. SIDEWALK WIDTH MAY VARY TO MEET MINIMUM ADA STANDARDS.

2

SIDEWALK SECTION

SCALE: NOT TO SCALE



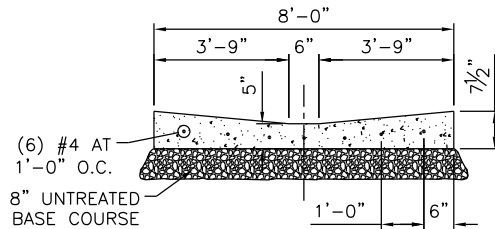
NOTES:

1. CRACK CONTROL JOINTS AT 10 FT.
2. EXPANSION JOINTS AT 50 FT.

3

CURB AND GUTTER SECTION

SCALE: NOT TO SCALE



NOTES:

1. CONSTRUCTION AND EXPANSION JOINTS AT 5 FT.
2. EXPANSION JOINTS AT EDGE OF APRON.
3. CROSS DRAIN USED ONLY WHERE DIRECTED BY CITY.

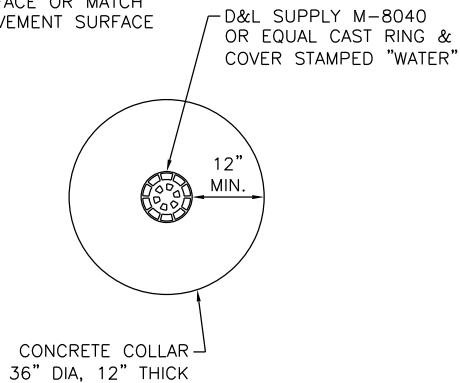
4

CROSS DRAIN SECTION

SCALE: NOT TO SCALE

NOTES:

1. SURFACE SET 1/2" BELOW ASPHALT SURFACE OR MATCH CONCRETE PAVEMENT SURFACE

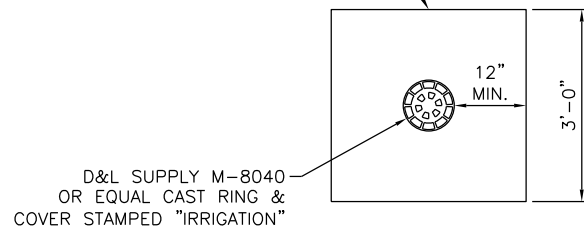


5

WATER VALVE BOX

SCALE: NOT TO SCALE

CONCRETE COLLAR
36" SQUARE, 12" THICK



NOTES:

1. SURFACE SET 1/2" BELOW ASPHALT SURFACE OR MATCH CONCRETE PAVEMENT SURFACE

6

IRRIGATION VALVE BOX

SCALE: NOT TO SCALE

STATEMENT OF USE
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NO.	REVISION DESCRIPTION	BY	DATE
1	CLARIFIED SIDEWALK THICKNESS/WIDENED CROSS DRAIN	BB	2/11/14

CAD FILE:
SYRACUSE CITY STANDARDS
DRAWN BY: BB
DESIGN BY: BB
CHECKED BY: RCW
LAST UPDATED: 2/11/2014
DATE ADOPTED: 3/14/2017



DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

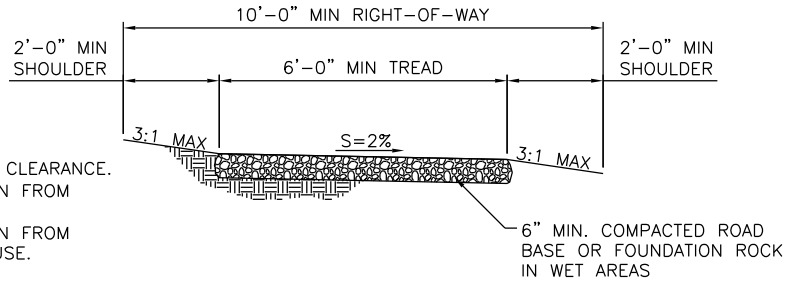
STREET IMPROVEMENT SECTIONS

SHEET

2

NOTES:

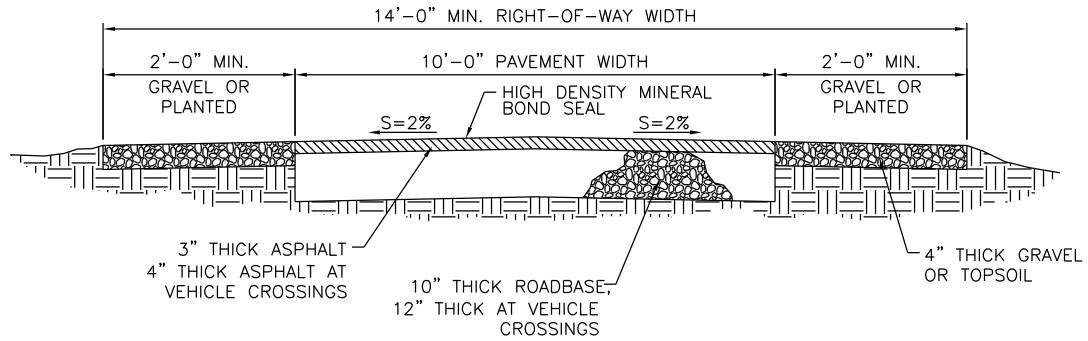
1. MAINTAIN 10' MIN VERTICAL CLEARANCE.
2. MAINTAIN 3' MIN SEPARATION FROM VERTICAL WALL OR FENCE.
3. MAINTAIN 4' MIN SEPARATION FROM TRAILS ALLOWING BICYCLE USE.



3

STANDARD EQUESTRIAN TRAIL SECTION

SCALE: NOT TO SCALE



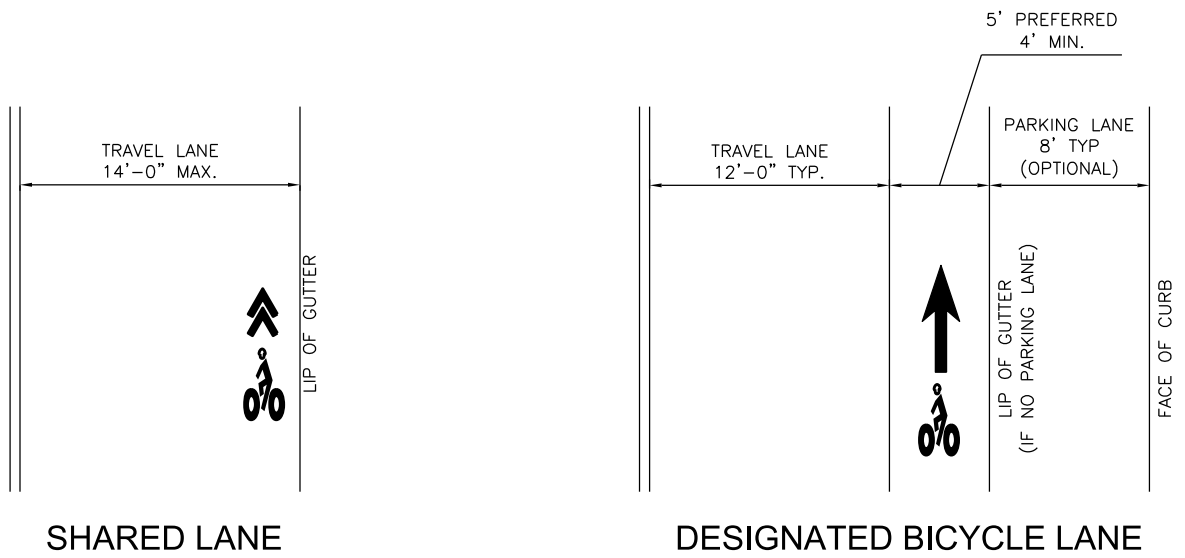
NOTE:

CROWN IN ASPHALT IS NOT REQUIRED. A 2% CROSS-SLOPE IS REQUIRED WITH OR WITHOUT A CROWN IN THE ASPHALT. CROSS-SLOPES WITHOUT A CROWN MUST BE SLOPED IN A DIRECTION TO DIRECT SURFACE WATER TOWARD THE NEAREST STORM DRAIN COLLECTION.

2

STANDARD TRAIL SECTION

SCALE: NOT TO SCALE



1

BICYCLE LANE DETAIL

SCALE: NOT TO SCALE

STATEMENT OF USE
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CAD FILE:
SYRACUSE CITY STANDARDS
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DESIGN BY: BB
CHECKED BY: RCW
LAST UPDATED: 2/22/2017
DATE ADOPTED: 3/14/2017

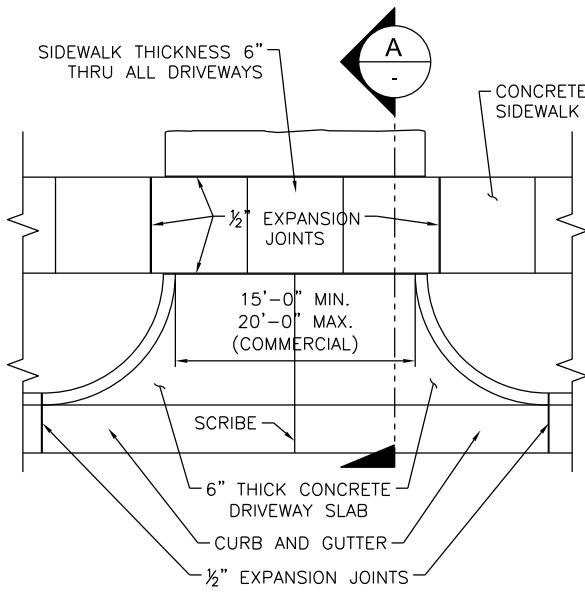


DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

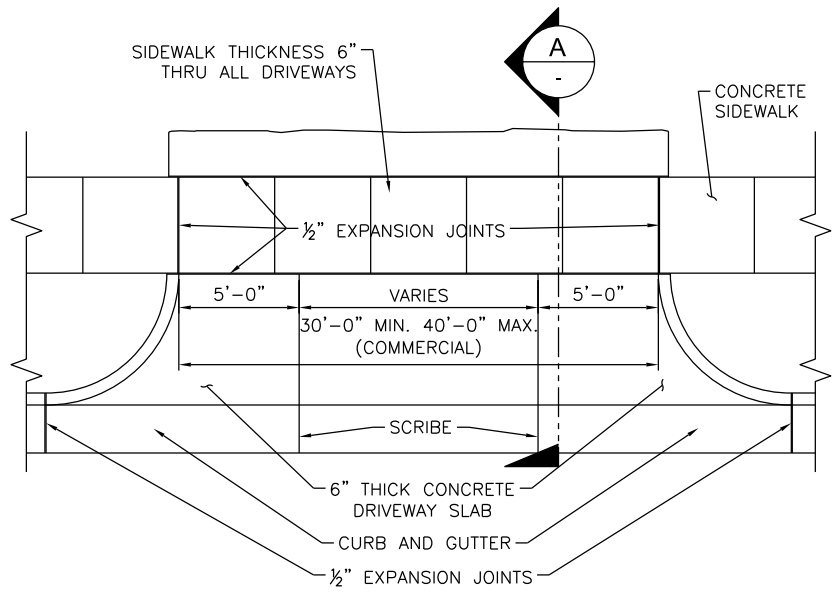
STANDARD TRAIL SECTION

SHEET

4



ONE WAY TRAFFIC



TWO WAY TRAFFIC

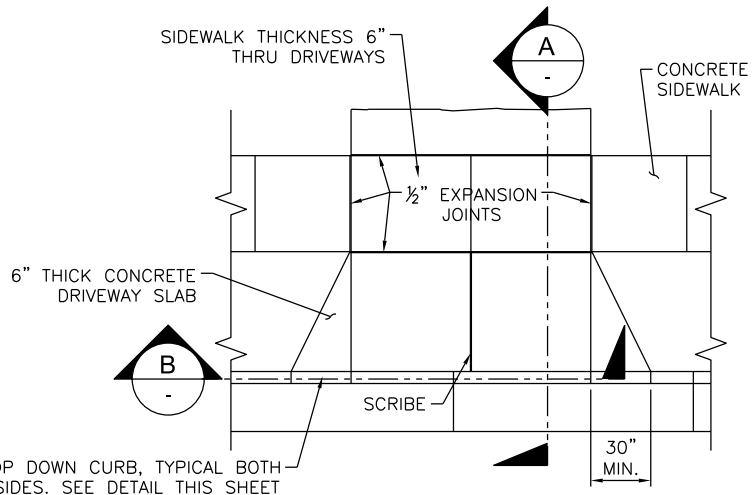
1

TYPE 1 DRIVEWAY APPROACH DETAIL

SCALE: NOT TO SCALE (PREFERRED STYLE FOR COMMERCIAL DEVELOPMENT)

NOTE:

1. SCRIBE SIDEWALK $\frac{1}{2}$ " DEPTH AT EACH 4'-0".
2. EXPANSION JOINT AT EACH 32'-0".
3. CURB AND GUTTER EXPANSION JOINT AT EACH 50'.
4. CURB AND GUTTER CONSTRUCTION JOINT AT EACH 10'.

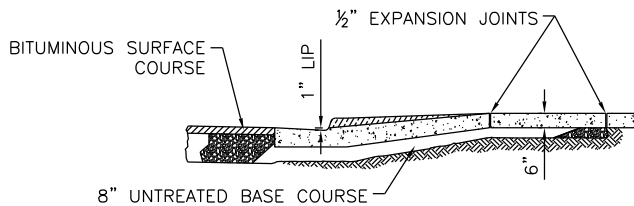


DROP DOWN CURB, TYPICAL BOTH SIDES. SEE DETAIL THIS SHEET

2

TYPE 2 DRIVEWAY APPROACH DETAIL

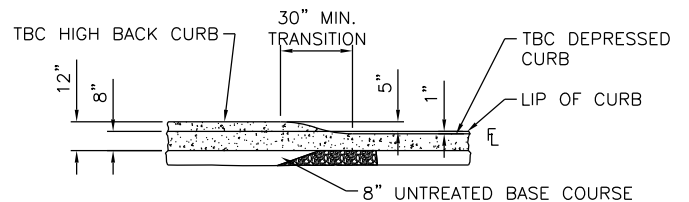
SCALE: NOT TO SCALE (PREFERRED STYLE FOR RESIDENTIAL DEVELOPMENT)



A

DRIVEWAY APPROACH SECTION

SCALE: NOT TO SCALE



B

DRIVEWAY APPROACH SECTION

SCALE: NOT TO SCALE

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CAD FILE:
SYRACUSE CITY STANDARDS
DRAWN BY: BB
DESIGN BY: BB
CHECKED BY: RCW
LAST UPDATED: 11/1/2011
DATE ADOPTED: 3/14/2017



DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

DRIVEWAY DETAILS

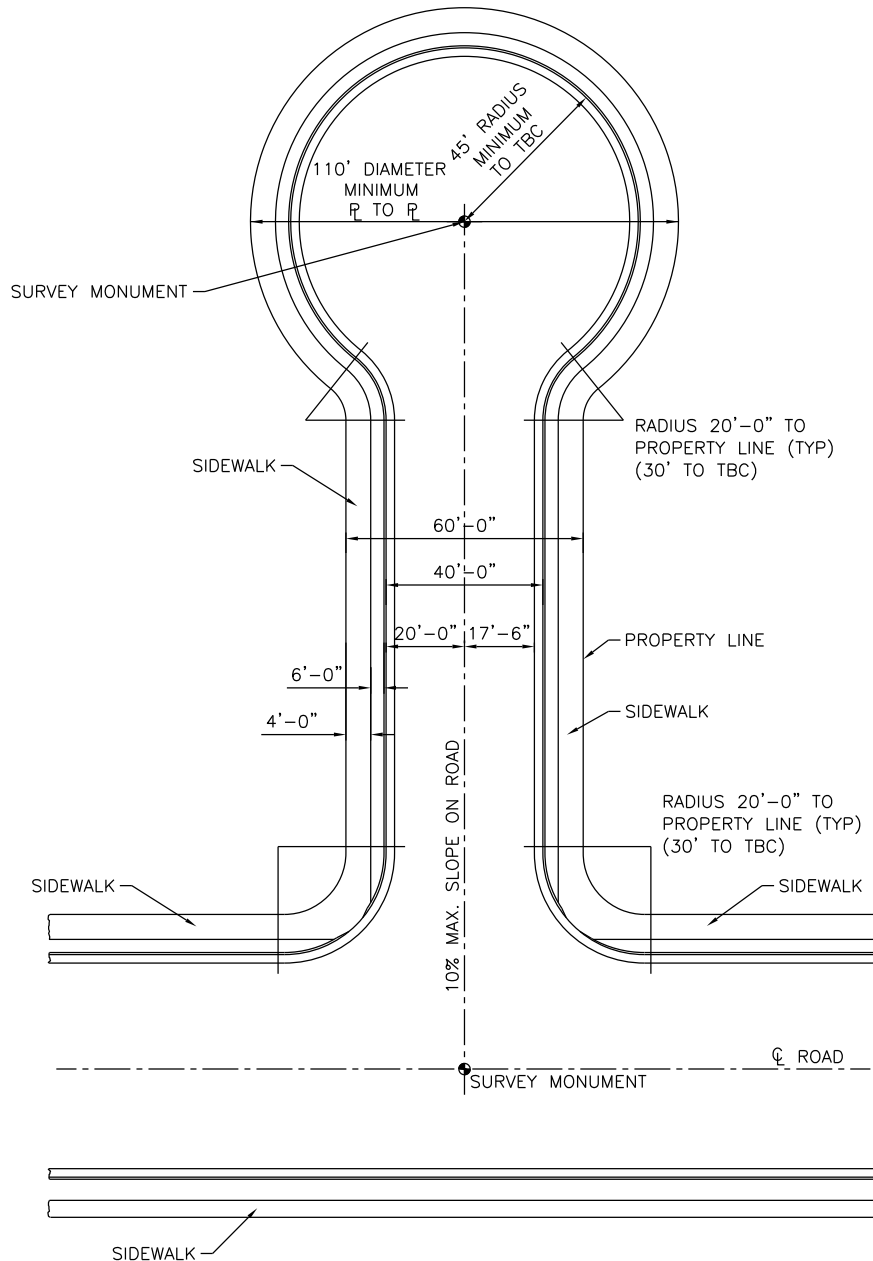
SHEET

5

NO. REVISION DESCRIPTION BY APRJ DATE

CUL-DE-SAC NOTES:

1. 500'-0" MAX. DISTANCE FROM CENTERLINE OF ADJOINING STREET TO RADIUS OF CUL-DE-SAC.
2. CUL-DE-SAC SHOULD BE USED ONLY WHERE UNUSUAL CONDITIONS EXIST.
3. A CUL-DE-SAC TURNABOUT IS REQUIRED WHEN PUBLIC AND PRIVATE DEAD-END STREETS EXCEED 150 FEET.
4. STREET SLOPES GREATER THAN 10% MUST RECEIVE WRITTEN APPROVAL FROM FIRE DISTRICT.
5. ALL CUL-DE-SAC STREETS SHALL HAVE A "No Outlet" SIGN AT THE INTERSECTING STREET.



TEMPORARY TURN-AROUND NOTES:

IN AREAS WHERE ROADS LONGER THAN 150 FEET ARE MASTER-PLANNED TO EXTEND AT A FUTURE TIME, A TEMPORARY TURN-AROUND SHALL BE USED WITH THE FOLLOWING REQUIREMENTS:

1. TEMPORARY TURN-AROUNDS SHALL BE HARD-SURFACED AND MATCH THE PAVEMENT DESIGN OF THE CONNECTING ROAD.
2. TEMPORARY TURN-AROUNDS SHALL MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE IFC AND OR THE MINIMUM REQUIREMENTS SET FORTH BY THE SYRACUSE CITY FIRE MARSHAL.
3. CURB, GUTTER, AND SIDEWALK IMPROVEMENTS SURROUNDING THE TEMPORARY TURN-AROUND MAY NOT BE REQUIRED IF PROOF IS PROVIDED TO THE CITY THAT PERMANENT IMPROVEMENTS WILL BE INSTALLED WITHIN TWO YEARS FROM THE CITY'S ACCEPTANCE OF THE TEMPORARY TURN-AROUND.
4. A PROJECT OR DEVELOPMENT INVOLVING THE CONNECTION OF A NEW STREET TO A TEMPORARY TURN-AROUND SHALL BEAR THE RESPONSIBILITY AND COSTS TO REMOVE THE TEMPORARY TURN-AROUND AND RE-ESTABLISH THE IMPROVEMENTS NECESSARY TO MAKE A PROPER CONNECTION.

1 TYPICAL CUL-DE-SAC DETAIL

SCALE: NOT TO SCALE

STATEMENT OF USE
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1	UPDATED LENGTH TO MATCH CURRENT ORDINANCE	BB	RCW	2/11/14
NO.	REVISION DESCRIPTION	BY	APR	DATE

CAD FILE:
SYRACUSE CITY STANDARDS
DRAWN BY: BB
DESIGN BY: BB
CHECKED BY: RCW
LAST UPDATED: 2/22/2017
DATE ADOPTED: 3/14/2017

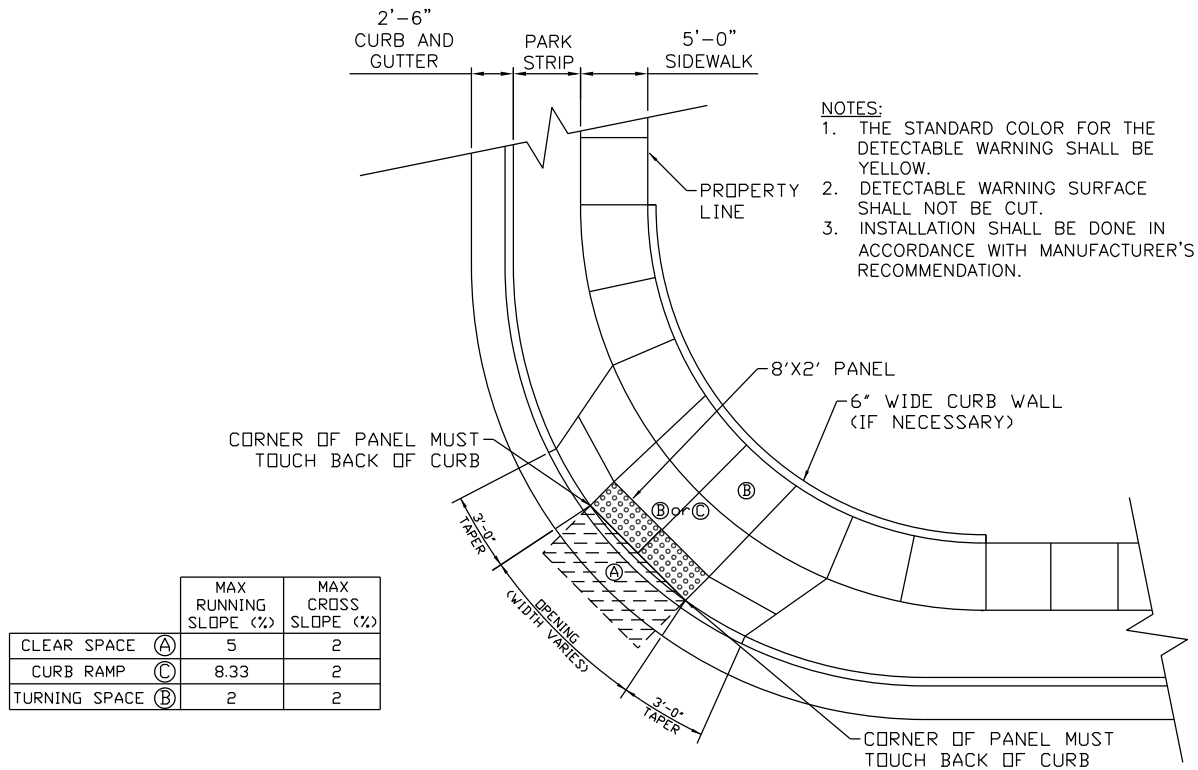


**DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION**

TYPICAL CUL-DE-SAC

SHEET

6

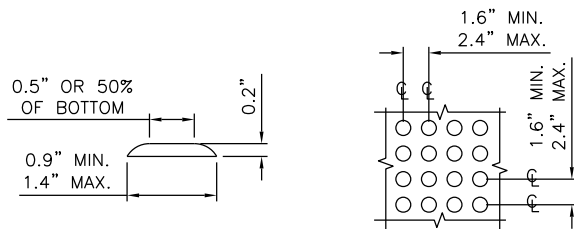


4

DOUBLE A.D.A. WHEELCHAIR RAMP DETAIL

SCALE: NOT TO SCALE

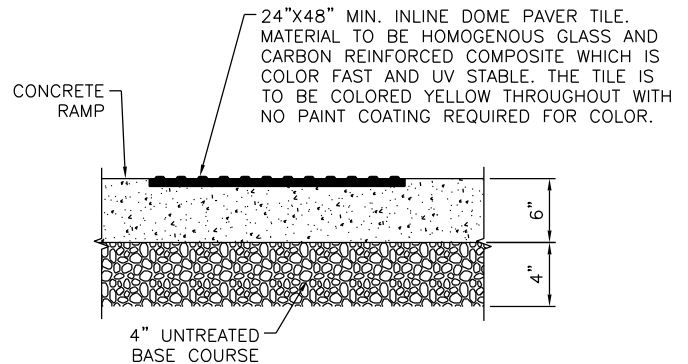
THIS DETAIL IS MEANT TO BE A SUPPLEMENT TO THE APWA MANUAL OF STANDARD PLANS. ANY DISCREPANCY BETWEEN THIS PLAN AND THE MOST CURRENT APWA STANDARD, THE APWA STANDARD SHALL GOVERN.



2

RAISED TRUNCATED DOMES DETAIL

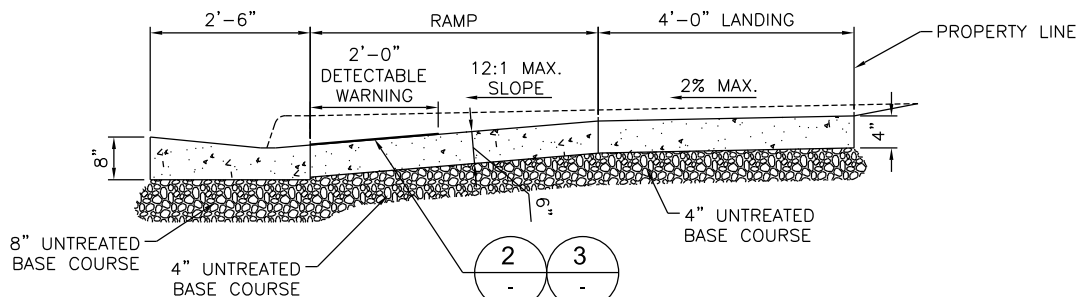
SCALE: NOT TO SCALE



3

INLINE DOME PAVER TILE DETAIL

SCALE: NOT TO SCALE



1

A.D.A. WHEELCHAIR RAMP SECTION

SCALE: NOT TO SCALE

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1	UPDATED TO MEET CURRENT ADA STANDARDS	BB	RCW	2/11/14
NO.	REVISION DESCRIPTION	BY	APR	DATE

CAD FILE:
SYRACUSE CITY STANDARDS
DRAWN BY: BB
DESIGN BY: BB
CHECKED BY: RCW
LAST UPDATED: 2/11/2014
DATE ADOPTED: 3/14/2017

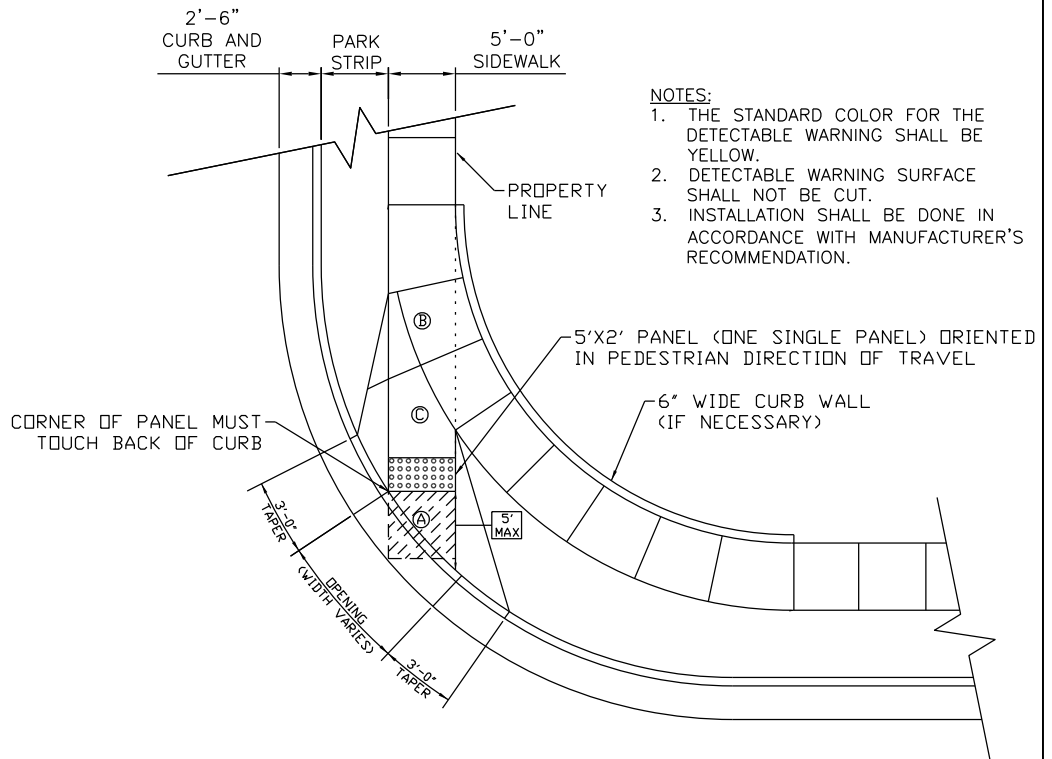
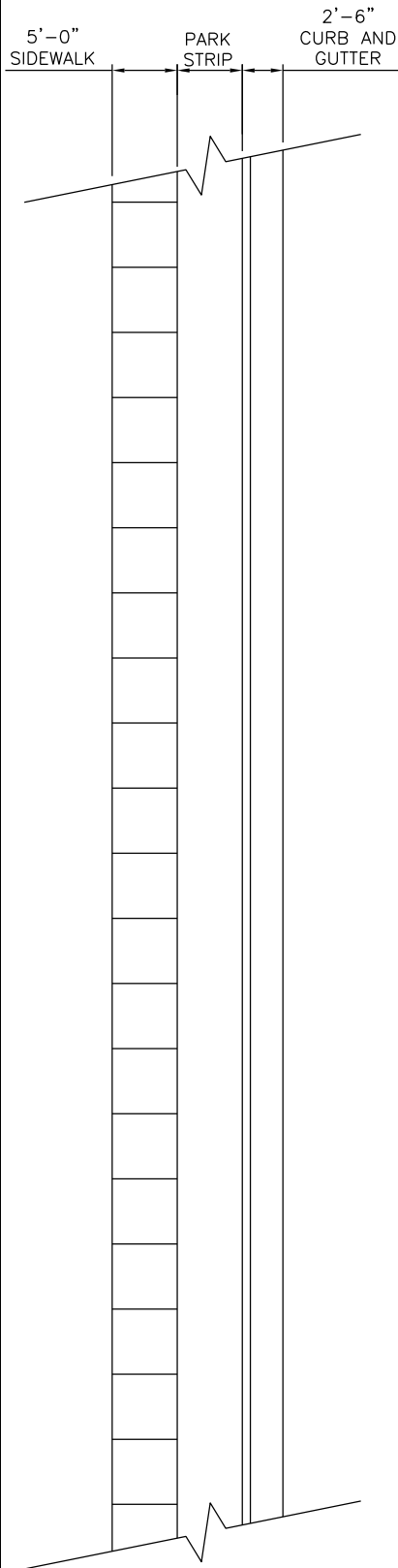


DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

A.D.A. WHEELCHAIR RAMP DETAIL

SHEET

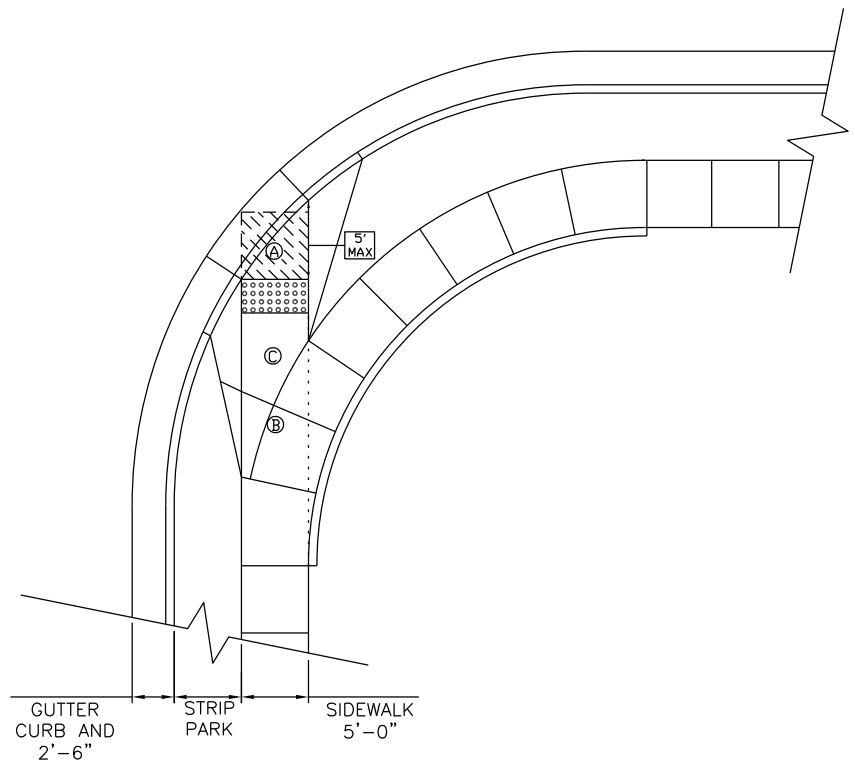
7A



NOTES:

1. THE STANDARD COLOR FOR THE DETECTABLE WARNING SHALL BE YELLOW.
2. DETECTABLE WARNING SURFACE SHALL NOT BE CUT.
3. INSTALLATION SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

		MAX RUNNING SLOPE (%)	MAX CROSS SLOPE (%)
CLEAR SPACE (A)		5	2
CURB RAMP (C)		8.33	2
TURNING SPACE (B)		2	2



5

A.D.A. WHEELCHAIR RAMP DETAIL

SCALE: NOT TO SCALE

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1	UPDATED TO MEET CURRENT ADA STANDARDS	BB	RCW	2/11/14
NO.	REVISION DESCRIPTION	BY	APR	DATE

CAD FILE:
SYRACUSE CITY STANDARDS
DRAWN BY: BB
DESIGN BY: BB
CHECKED BY: RCW
LAST UPDATED: 2/11/2014
DATE ADOPTED: 3/14/2017



DEVELOPMENT STANDARDS SYRACUSE CITY CORPORATION

A.D.A. WHEELCHAIR RAMP DETAIL

SHEET

7B

5'-0" SIDEWALK
PARK STRIP
2'-6" CURB AND GUTTER

2'-6" CURB AND GUTTER
PARK STRIP
5'-0" SIDEWALK

NOTES:

1. THE STANDARD COLOR FOR THE DETECTABLE WARNING SHALL BE YELLOW.
2. DETECTABLE WARNING SURFACE SHALL NOT BE CUT.
3. INSTALLATION SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

CORNER OF PANEL MUST TOUCH BACK OF CURB

8'X2' PANEL

6" WIDE CURB WALL (IF NECESSARY)

PANEL MUST TOUCH BACK OF CURB
6" WIDE CURB WALL (IF NECESSARY)

CORNER OF PANEL MUST TOUCH BACK OF CURB

	MAX RUNNING SLOPE (%)	MAX CROSS SLOPE (%)
CLEAR SPACE (A)	5	2
CURB RAMP (C)	8.33	2
TURNING SPACE (B)	2	2

CORNER OF PANEL MUST TOUCH BACK OF CURB

6" WIDE CURB WALL (IF NECESSARY)

5'X2' PANEL (ONE SINGLE PANEL) ORIENTED IN PEDESTRIAN DIRECTION OF TRAVEL

GUTTER CURB AND 2'-6"
STRIP PARK
SIDEWALK 5'-0"

6

A.D.A. WHEELCHAIR RAMP DETAIL

SCALE: NOT TO SCALE

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1	UPDATED TO MEET CURRENT ADA STANDARDS	BB	RCW	2/11/14
NO.	REVISION DESCRIPTION	BY	APR	DATE

CAD FILE:
SYRACUSE CITY STANDARDS
DRAWN BY: BB
DESIGN BY: BB
CHECKED BY: RCW
LAST UPDATED: 2/11/2014
DATE ADOPTED: 3/14/2017

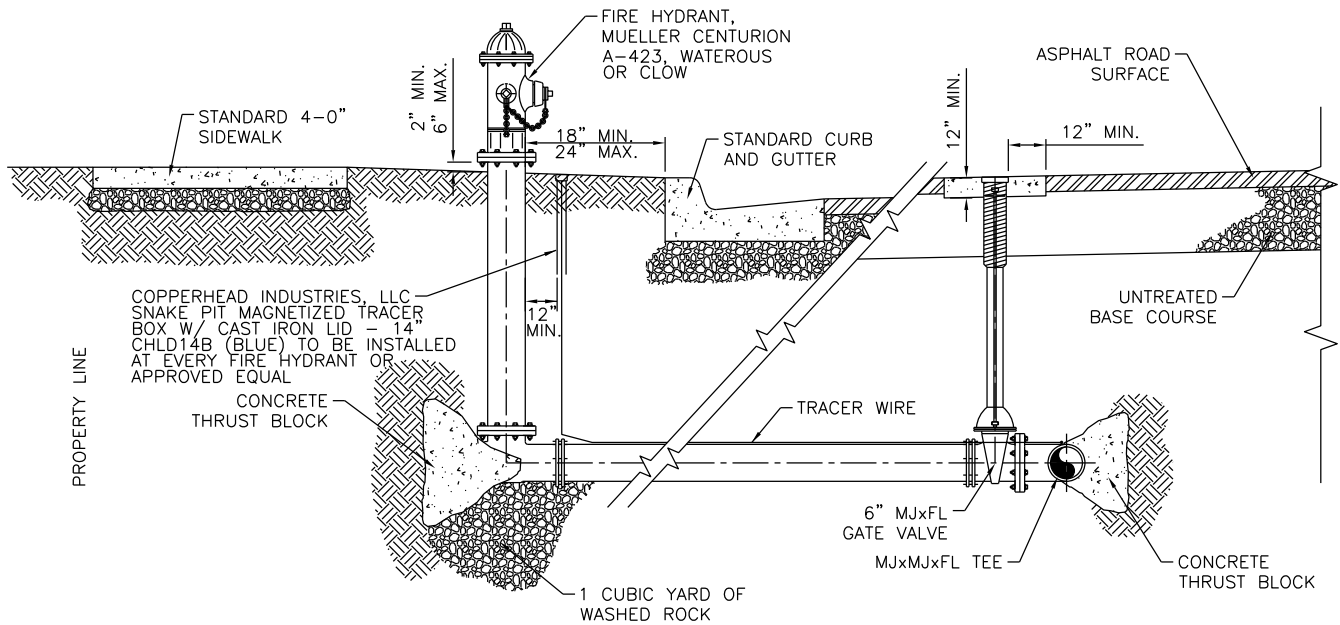


DEVELOPMENT STANDARDS SYRACUSE CITY CORPORATION

A.D.A. WHEELCHAIR RAMP DETAIL

SHEET

7C



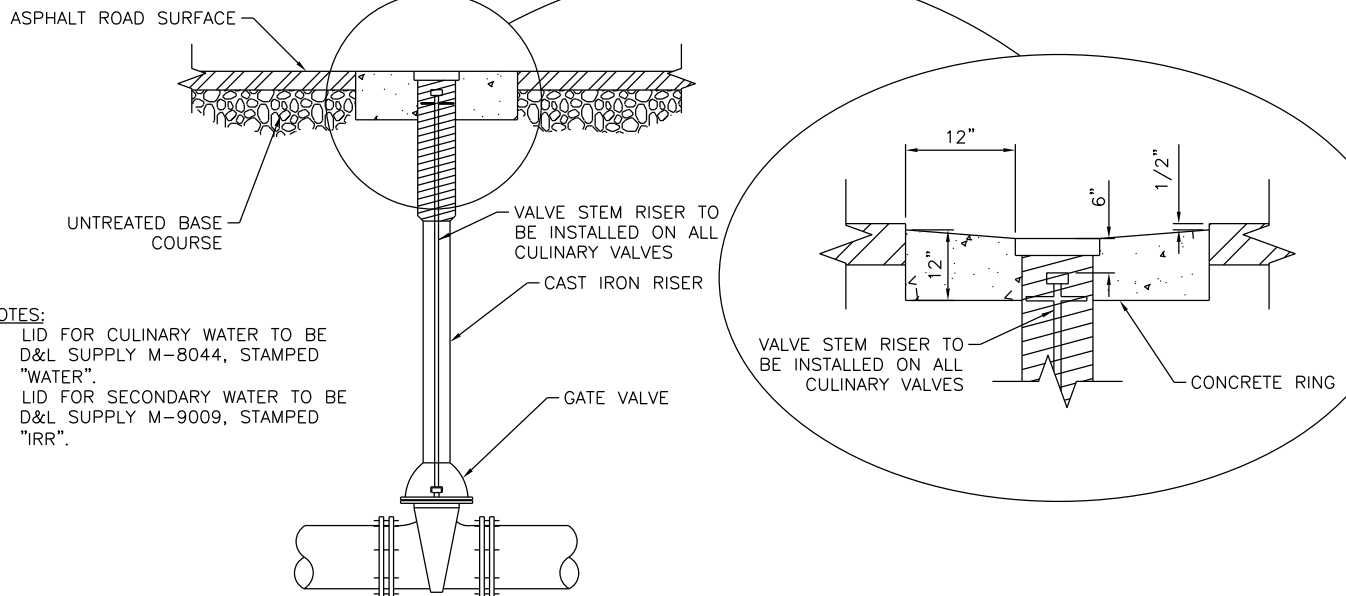
NOTES:

1. THRUST BLOCK SHALL NOT PLUG WEEP HOLES.
2. HYDRANT SHALL STAND PLUMB WITH PUMPER NOZZLE FACING THE STREET.
3. TYPICAL SPACING BETWEEN FIRE HYDRANTS IS 400 FEET.
4. HYDRANTS SHALL NOT BE LOCATED AT THE END OF A CUL-DE-SAC FACING THE TRAVEL PATH ENTERING THE CUL-DE-SAC.

2

TYPICAL FIRE HYDRANT CONNECTION DETAIL

SCALE: NOT TO SCALE



NOTES:

1. LID FOR CULINARY WATER TO BE D&L SUPPLY M-8044, STAMPED "WATER".
2. LID FOR SECONDARY WATER TO BE D&L SUPPLY M-9009, STAMPED "IRR".

1

TYPICAL WATER VALVE DETAIL

SCALE: NOT TO SCALE

STATEMENT OF USE
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1	CLARIFIED VALVE STEM RISERS/ADDED TEST STATION	BB	RCW	2/11/14
NO.	REVISION DESCRIPTION	BY	APR	DATE

CAD FILE: SYRACUSE CITY STANDARDS
DRAWN BY: BB
DESIGN BY: BB
CHECKED BY: RCW
LAST UPDATED: 2/22/2017
DATE ADOPTED: 3/14/2017



DEVELOPMENT STANDARDS SYRACUSE CITY CORPORATION

TYPICAL FIRE HYDRANT CONNECTION DETAIL

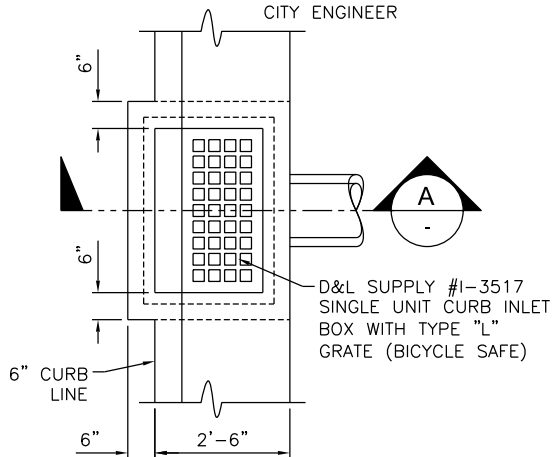
SHEET

9

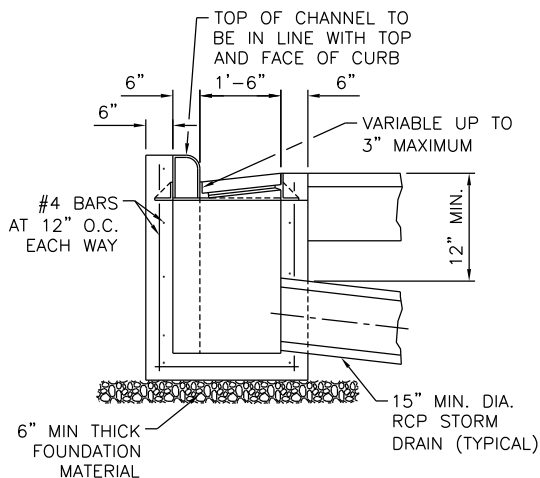
GENERAL NOTES:

1. ALL STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS.
2. REINFORCEMENT STEEL SHALL BE DEFORMED BARS CONFORMING IN QUALITY TO THE REQUIREMENTS OF ASTM DESIGNATION A-615, GRADE 60, INCLUDING SUPPLEMENTARY REQUIREMENTS (S1).
3. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI-315, LATEST EDITION.
4. TOLERANCES IN PLACING REINFORCEMENT SHALL BE:
 - ± 3/8 INCH FOR MEMBERS WITH D < 8 INCHES
 - ± 1/2 INCH FOR MEMBERS WITH D ≥ 8 INCHES
5. DOWELS, PIPES, WATERSTOPS AND OTHER INSTALLED MATERIALS AND ACCESSORIES SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
6. UNLESS OTHERWISE SHOWN, ASIDE FROM NORMAL ACCESSORIES USED TO HOLD REINFORCING BARS FIRMLY IN POSITION, THE FOLLOWING SHALL BE ADDED:
 - A. IN SLABS #5 RISER BARS AT 36 INCHES O.C. MAXIMUM TO SUPPORT TOP REINFORCING BARS.
 - B. IN WALLS WITH 2 CURTAINS #3 U OR Z SHAPE SPACES AT 6 FEET O.C. EACH WAY.
7. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUBGRADE. CONCRETE BLOCKS (OR DOBBIES) SUPPORTING BARS ON SUBGRADE SHALL BE IN SUFFICIENT NUMBERS TO SUPPORT THE BARS WITHOUT SETTLEMENT, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS.
8. DOWELS SHALL BE WIRED OR OTHERWISE HELD IN POSITION. THEY SHALL NOT BE SHOVED INTO FRESHLY PLACED CONCRETE.
9. REINFORCED BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE OR METAL PARTS EMBEDDED IN CONCRETE, A MINIMUM OF 2 INCHES CLEARANCE SHALL BE PROVIDED AT ALL TIMES.
10. STRUCTURES SHALL BE BACKFILLED WITH GRANULAR SOIL.
11. ALL CONSTRUCTION JOINTS SHALL BE ROUGHED AND CLEANED AND FREE OF LAITANCE.
12. STRUCTURES HAVE BEEN DESIGNED FOR THE FOLLOWING; IF CONDITIONS ARE EXCEEDED THE ENGINEER SHALL BE NOTIFIED.
 - A. AASHTO HS-20 TRUCK LOAD
 - B. 1'-6" MAX. SOIL ABOVE THE ROOF OF THE STRUCTURE
 - C. GROUND WATER TO TOP OF STRUCTURE
 - D. "AT-REST" LATERAL SOIL PRESSURE OF 60 PCF FOR DRY SOIL CONDITIONS AND 92.4 PCF WHEN GROUND WATER IS PRESENT

NOTE:
USE ONLY WHERE DIRECTED BY
CITY ENGINEER



PLAN

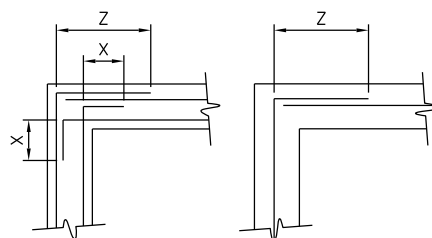


SECTION A

1

ALTERNATE CATCH BASIN

SCALE: NOT TO SCALE

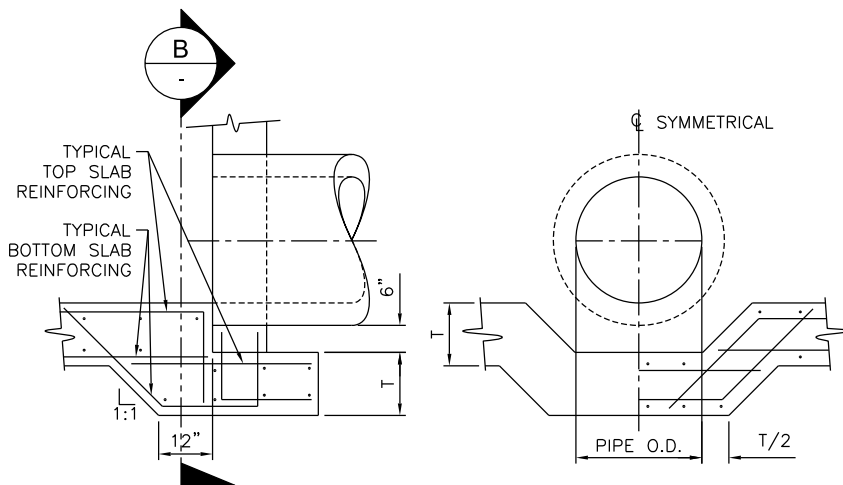


BAR SIZE	X	Z
#4	8"	1'-8"
#5	10"	2'-2"

HORIZONTAL REINFORCEMENT AT WALL INTERSECTION

2

SCALE: NOT TO SCALE



SECTION THRU PIPE

SECTION B

3

OPTIONAL FOOTING DETAIL AT WALL PIPE CONNECTION

SCALE: NOT TO SCALE

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NO.	CLARIFIED STANDARD CATCH BASIN TYPE	BY	DATE
1		BB	2/11/14
	REVISION DESCRIPTION	BY	DATE

CAD FILE:	SYRACUSE CITY STANDARDS
DRAWN BY:	BB
DESIGN BY:	BB
CHECKED BY:	RCW
LAST UPDATED:	2/11/2014
DATE ADOPTED:	3/14/2017

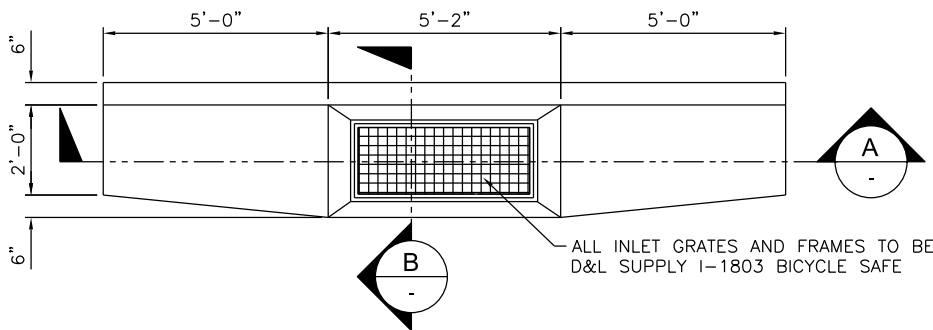


DEVELOPMENT STANDARDS SYRACUSE CITY CORPORATION

ALTERNATE CATCH BASIN

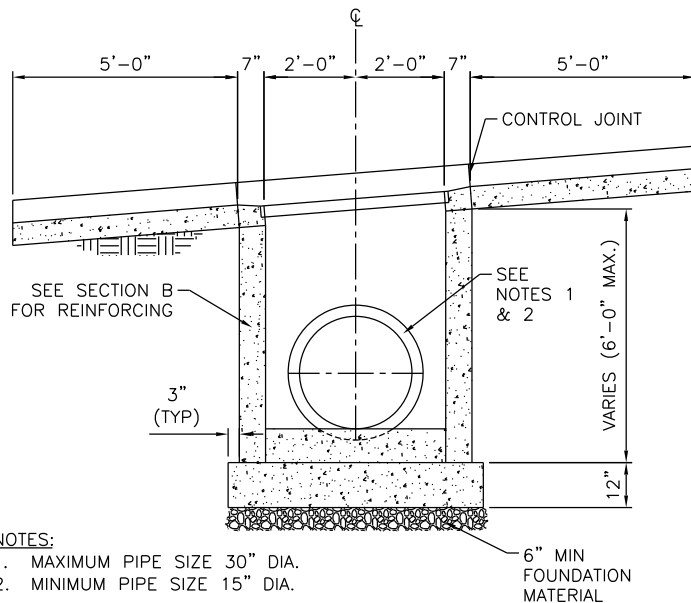
SHEET

10



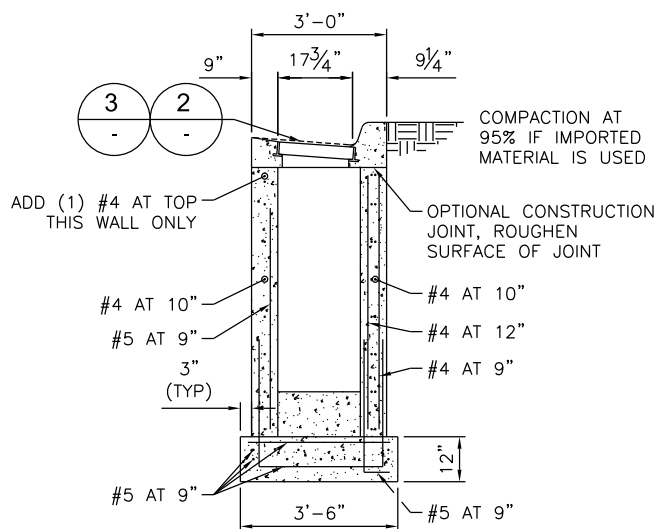
1 SINGLE CATCH BASIN PLAN

SCALE: NOT TO SCALE



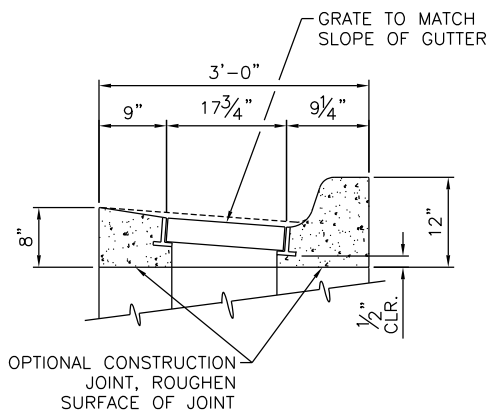
A SECTION

SCALE: NOT TO SCALE



B SECTION

SCALE: NOT TO SCALE



2 STANDARD CURB AND GUTTER INLET DETAIL

SCALE: NOT TO SCALE

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1	CLARIFIED STANDARD CATCH BASIN TYPE	BB	RCW	2/11/14
NO.	REVISION DESCRIPTION	BY	APR	DATE

CAD FILE:
SYRACUSE CITY STANDARDS
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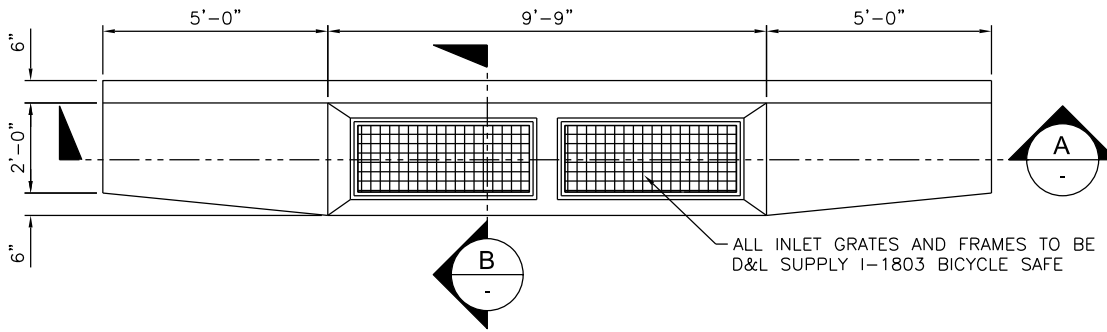


DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

STANDARD CATCH BASIN

SHEET

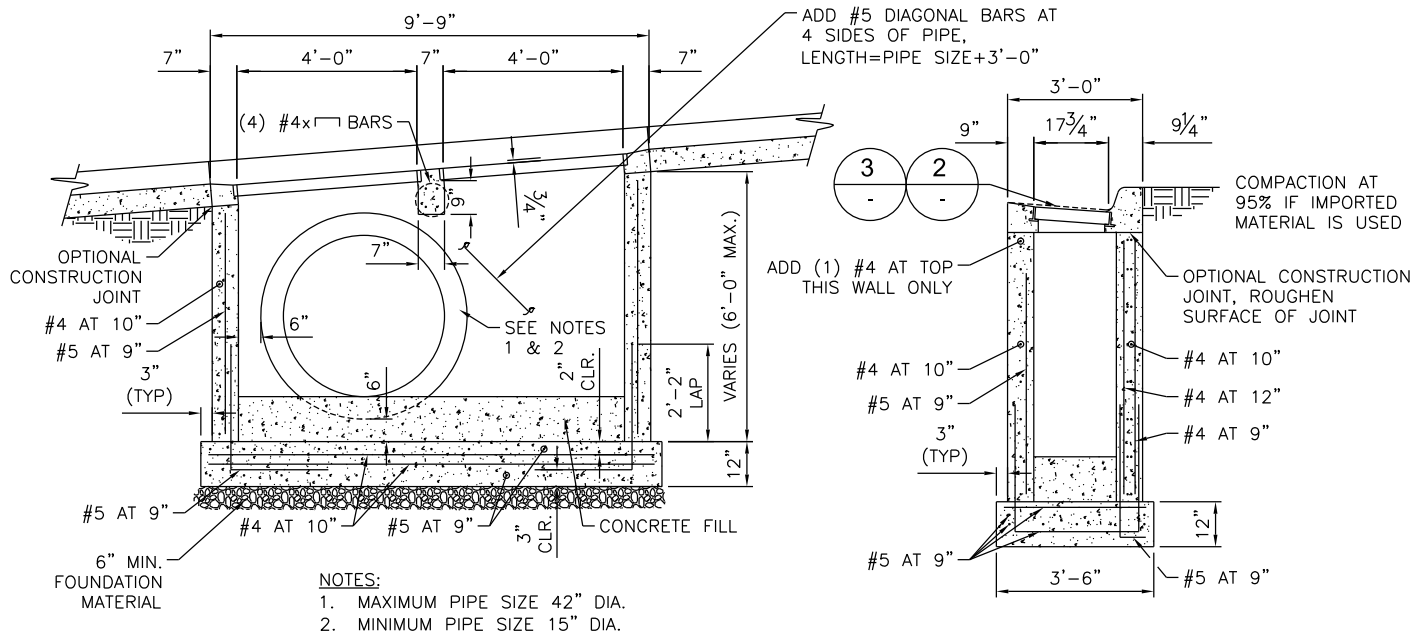
11



1

DOUBLE CATCH BASIN PLAN

SCALE: NOT TO SCALE



A

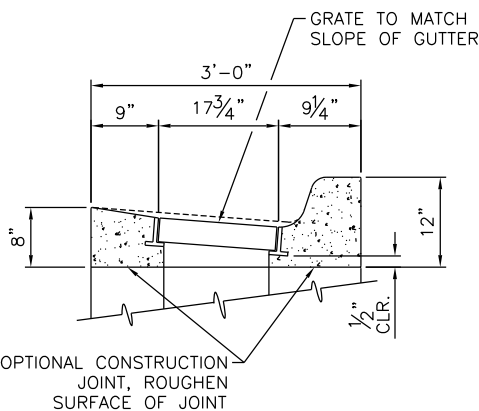
SECTION

SCALE: NOT TO SCALE

B

SECTION

SCALE: NOT TO SCALE



2

CURB AND GUTTER INLET DETAIL

SCALE: NOT TO SCALE

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DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

STANDARD DOUBLE CATCH BASIN

SHEET

12

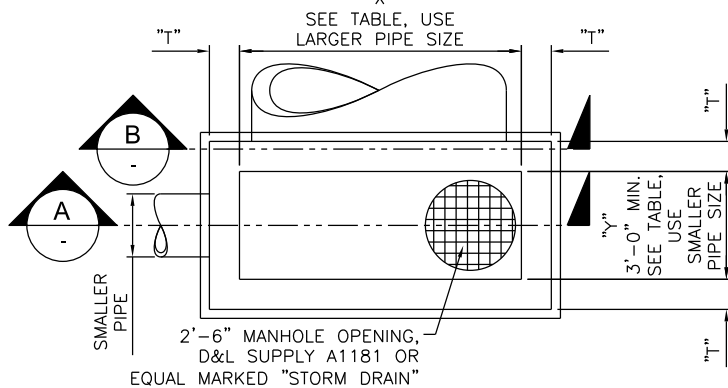
PIPE SIZE (IN.)	USE LARGEST PIPE SIZE FOR THESE DIMENSIONS AND REBAR EXCEPT DIMENSION "Y"									
	"X" "Y"	"Z"	"T"	"A"	"B"	"C"	"D"	"E"	"F"	"G"
18	3'-0"	3'-3"	6"	#4 @ 12"	---	---	#5 @ 9"	#4 @ 12"	#4 @ 12"	#5 @ 9"
21	3'-3"	3'-6"	6"	#4 @ 12"	---	---	#5 @ 9"	#4 @ 12"	#4 @ 12"	#5 @ 9"
24	3'-6"	3'-9"	6"	#4 @ 12"	---	---	#5 @ 9"	#4 @ 12"	#4 @ 12"	#5 @ 9"
27	3'-9"	4'-0"	6"	#4 @ 12"	---	---	#5 @ 9"	#4 @ 12"	#4 @ 12"	#5 @ 9"
30	4'-2"	4'-5"	6"	#4 @ 12"	---	---	#5 @ 9"	#4 @ 12"	#4 @ 12"	#5 @ 9"
33	4'-5"	4'-8"	6"	#4 @ 12"	---	---	#5 @ 9"	#4 @ 12"	#4 @ 12"	#5 @ 9"
36	4'-8"	4'-11"	6"	#4 @ 12"	---	---	#5 @ 9"	#4 @ 12"	#4 @ 12"	#5 @ 9"
42	5'-3"	5'-6"	6"	#4 @ 12"	---	---	#5 @ 9"	#4 @ 12"	#4 @ 12"	#5 @ 9"
48	5'-10"	6'-1"	10"	#4 @ 12"	#5 @ 12"	#4 @ 12"	---	---	#4 @ 12"	#5 @ 12"
54	6'-5"	6'-8"	10"	#4 @ 12"	#5 @ 12"	#4 @ 12"	---	---	#4 @ 12"	#5 @ 12"
60	7'-0"	7'-3"	10"	#4 @ 12"	#5 @ 12"	#4 @ 12"	---	---	#4 @ 12"	#5 @ 12"
66	7'-7"	8'-10"	10"	#4 @ 12"	#5 @ 12"	#4 @ 12"	---	---	#4 @ 9"	#5 @ 12"
72	8'-2"	9'-5"	10"	#4 @ 12"	#5 @ 12"	#4 @ 12"	---	---	#4 @ 9"	#5 @ 12"

NOTE:

1. THE "H" REBAR IS BASED ON THE SMALLER PIPE, WHEN THE SMALLER PIPE IS 18" TO 36" USE #4 AT 6". WHEN THE SMALLER PIPE IS 42" TO 60" USE #5 AT 6". WHEN THE SMALLER PIPE IS 66" OR 72" USE #6 AT 6".
2. WALL THICKNESS IS BASED ON THE LARGEST OF THE PIPES. FOR 10" WALLS, USE 2 LAYERS OF STEEL. FOR 6" WALLS, USE A SINGLE LAYER OF STEEL.
3. WHEN "Z" IS LESS THAN 4'-0", THE VERTICAL REBAR LAP BE ELIMINATED AND DOWELS EXTENDED TO THE TOP OF THE WALL.

GENERAL NOTES:

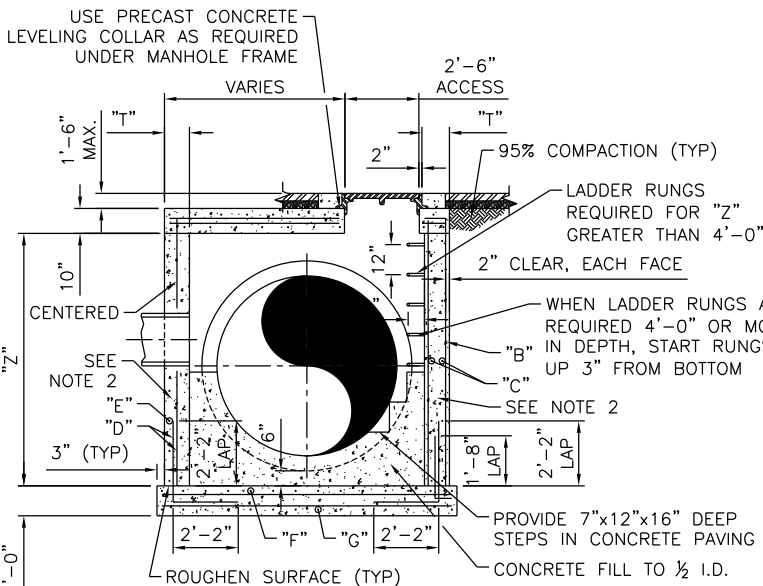
1. ALL STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS.
2. REINFORCEMENT STEEL SHALL BE DEFORMED BARS CONFORMING IN QUALITY TO THE REQUIREMENTS OF ASTM DESIGNATION A-615, GRADE 60, INCLUDING SUPPLEMENTARY REQUIREMENTS (S1).
3. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI-315, LATEST EDITION.
4. TOLERANCES IN PLACING REINFORCEMENT SHALL BE:
 - ± 3/8 INCH FOR MEMBERS WITH D < 8 INCHES
 - ± 1/2 INCH FOR MEMBERS WITH D ≥ 8 INCHES
5. DOWELS, PIPES, WATERSTOPS AND OTHER INSTALLED MATERIALS AND ACCESSORIES SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
6. UNLESS OTHERWISE SHOWN, ASIDE FROM NORMAL ACCESSORIES USED TO HOLD REINFORCING BARS FIRMLY IN POSITION, THE FOLLOWING SHALL BE ADDED:
 - A. IN SLABS #5 RISER BARS AT 36 INCHES O.C. MAXIMUM TO SUPPORT TOP REINFORCING BARS.
 - B. IN WALLS WITH 2 CURTAINS #4 "U" OR "Z" SHAPE SPACES AT 6 FEET O.C. EACH WAY.
7. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OF THE SUBGRADE. CONCRETE BLOCKS (OR DOBBIES) SUPPORTING BARS ON SUBGRADE SHALL BE IN SUFFICIENT NUMBERS TO SUPPORT THE BARS WITHOUT SETTLEMENT, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS.
8. DOWELS SHALL BE WIRED OR OTHERWISE HELD IN POSITION. THEY SHALL NOT BE SHOVED INTO FRESHLY PLACED CONCRETE.
9. REINFORCED BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE, OR METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM OF 2 INCHES CLEARANCE SHALL BE PROVIDED AT ALL TIMES.
10. STRUCTURES SHALL BE BACKFILLED WITH GRANULAR SOIL.
11. ALL CONSTRUCTION JOINTS SHALL BE ROUGHED AND CLEANED AND FREE OF LAITANCE.
12. STRUCTURES HAVE BEEN DESIGNED FOR THE FOLLOWING; IF CONDITIONS ARE EXCEEDED THE ENGINEER SHALL BE NOTIFIED.
 - A. AASHTO HS-20 TRUCK LOAD.
 - B. 1'-6" MAX. SOIL ABOVE THE ROOF OF THE STRUCTURE.
 - C. GROUND WATER TO TOP OF STRUCTURE.
 - D. "AT-REST" LATERAL SOIL PRESSURE OF 60 PCF FOR DRY SOIL CONDITIONS AND 92.4 PCF WHEN GROUND WATER IS PRESENT.



STANDARD CLEANOUT PLAN VIEW

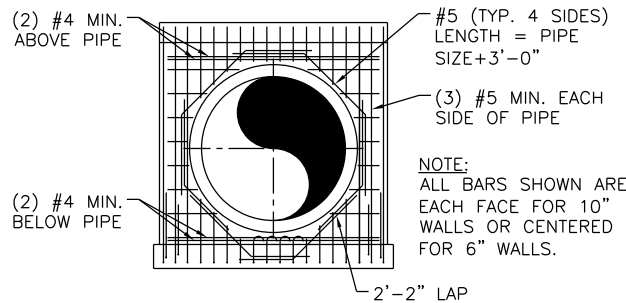
SCALE: NOT TO SCALE

(TYPE 1)



STANDARD CLEANOUT SECTION

SCALE: NOT TO SCALE



STANDARD CLEANOUT SECTION

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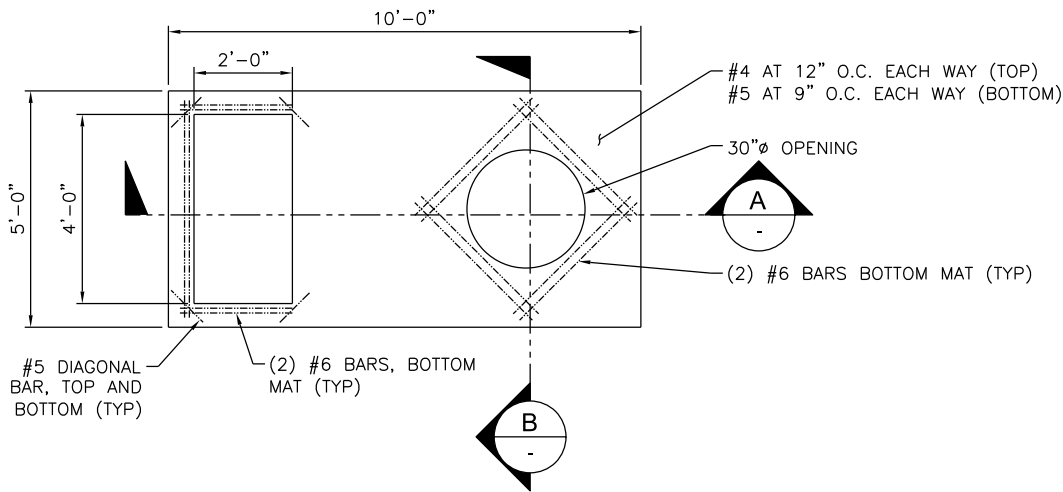


DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

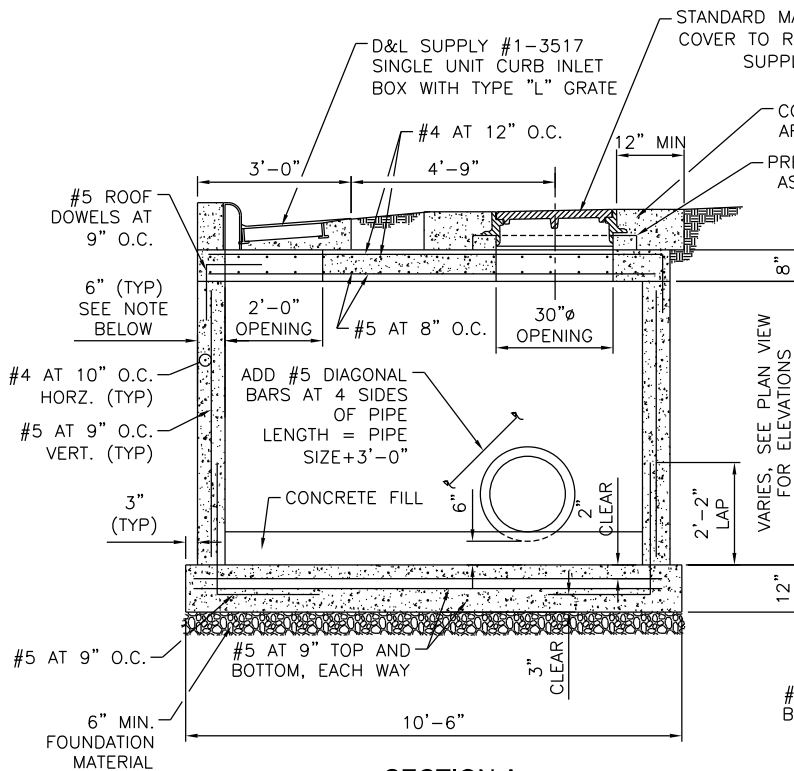
STANDARD STORM DRAIN CLEANOUT

SHEET

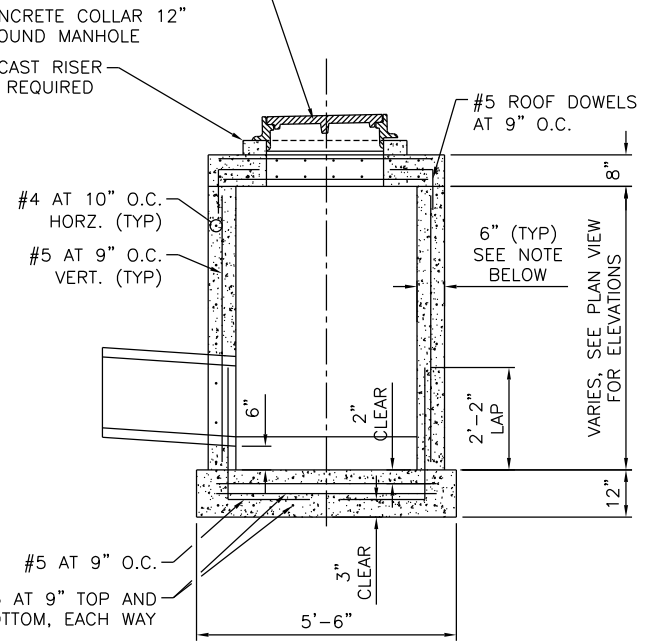
13



PLAN



SECTION A



SECTION B

NOTE:
USE 6" THICK WALLS FOR WALL HEIGHT UP TO 5'-0". FOR
WALL HEIGHT GREATER THAN 5'-0", USE 8" THICK WALLS.

1

COMBINATION INLET/CLEANOUT DETAIL

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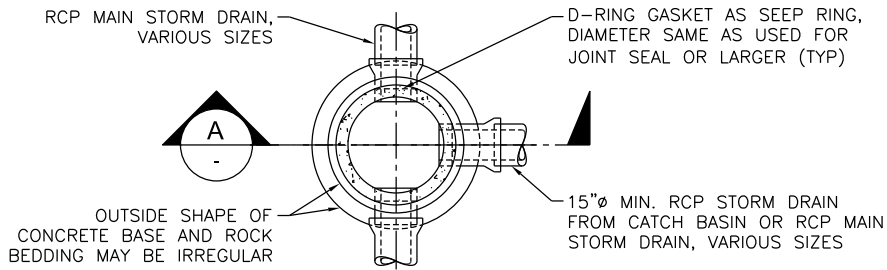


DEVELOPMENT STANDARDS
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TYPICAL COMBINATION INLET CLEANOUT

SHEET

14



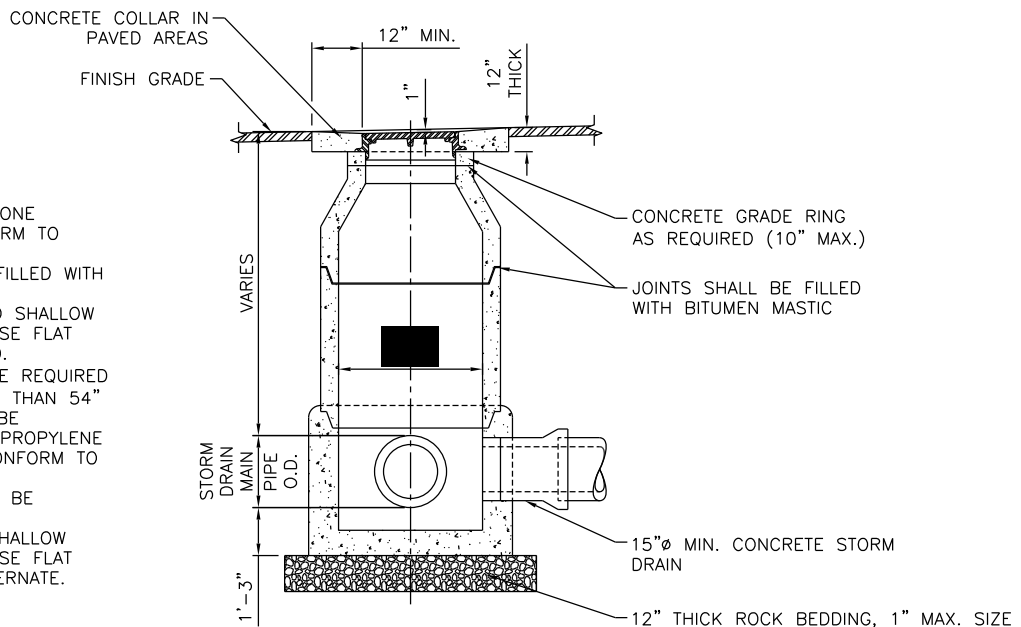
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TYPICAL STORM DRAIN MANHOLE PLAN BELOW CONE

SCALE: NOT TO SCALE

NOTES:

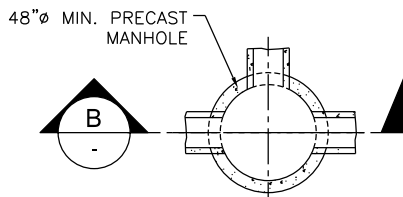
1. MANHOLE WALL AND CONE SECTION SHALL CONFORM TO ASTM C-478.
2. LIFT HOLE SHALL BE FILLED WITH GROUT.
3. IF MANHOLES ARE TOO SHALLOW FOR CONE SECTION, USE FLAT CONCRETE LID INSTEAD.
4. STEPS @ 12" O.C. ARE REQUIRED IN MANHOLES GREATER THAN 54" DEEP. STEPS SHALL BE NON-CORROSIVE POLY PROPYLENE COATED STEEL AND CONFORM TO ASTM C-478.
5. MANHOLE CONE SHALL BE ECCENTRIC.
6. IF MANHOLE IS TOO SHALLOW FOR CONE SECTION, USE FLAT CONCRETE LID AS ALTERNATE.



A

TYPICAL STORM DRAIN MANHOLE SECTION

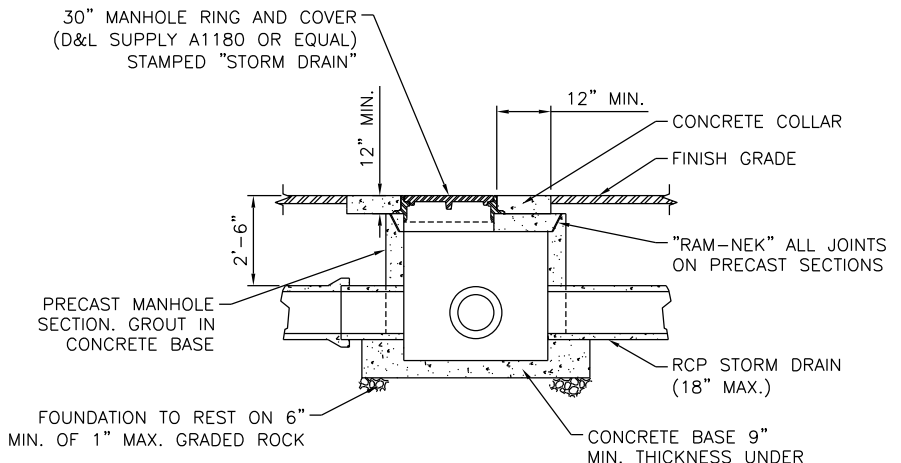
SCALE: NOT TO SCALE



2

FLAT LID STORM DRAIN MANHOLE PLAN

SCALE: NOT TO SCALE



B

FLAT LID STORM DRAIN MANHOLE SECTION

SCALE: NOT TO SCALE

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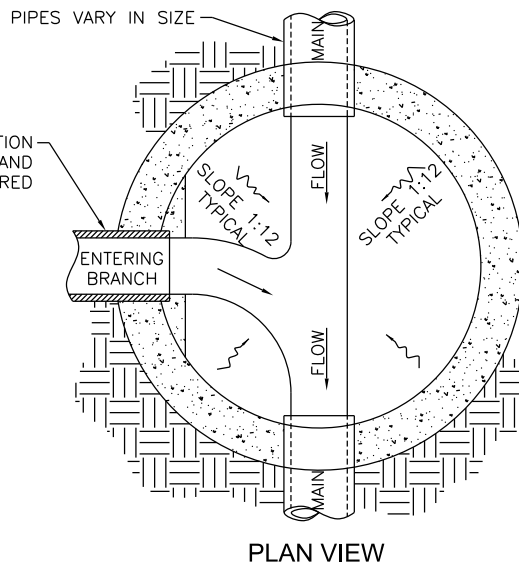
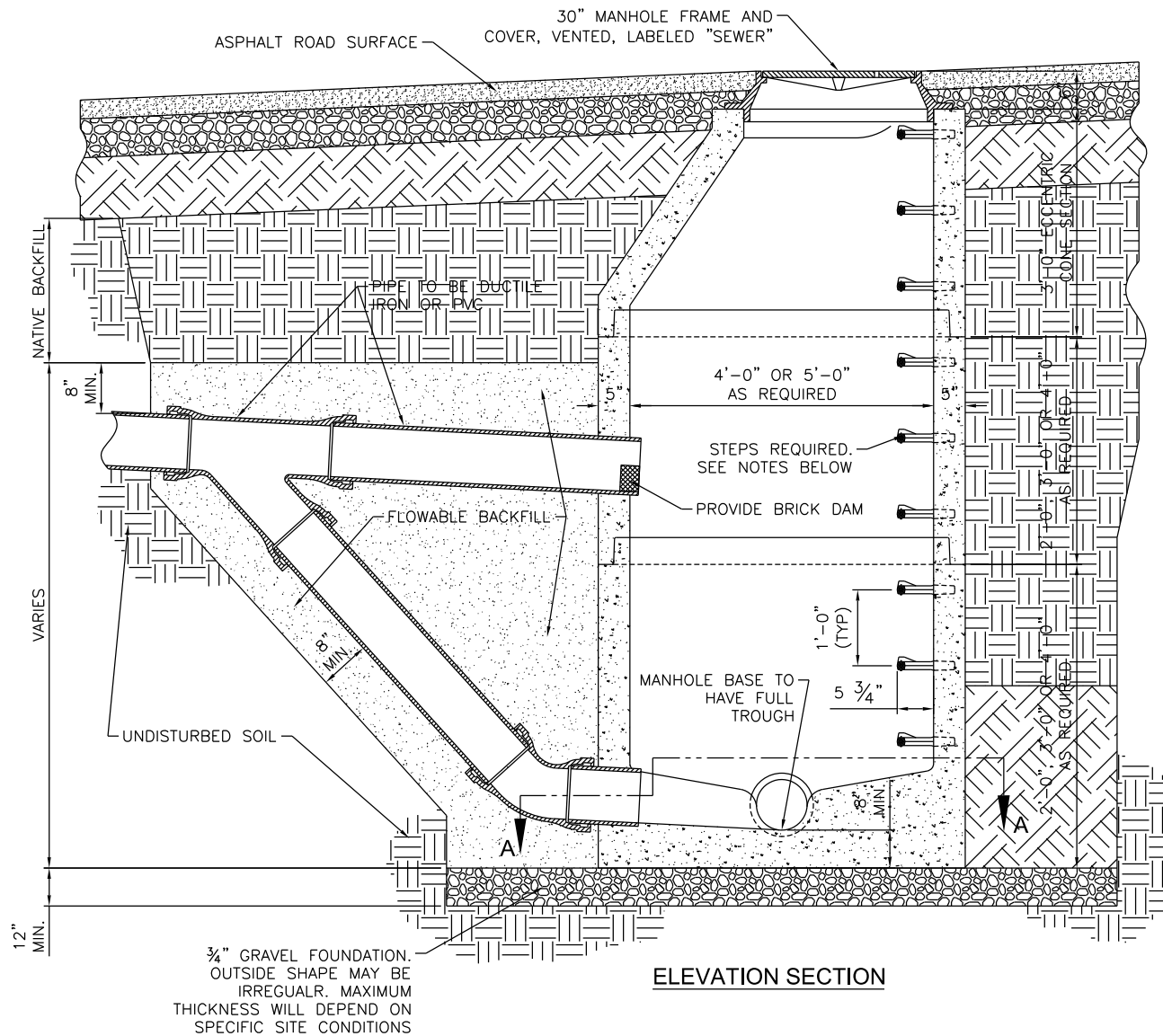


DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

STANDARD STORM DRAIN MANHOLES

SHEET

15



NOTES:

1. MANHOLE COVER TO CONTAIN ONE PICK HOLE. D&L SUPPLY A1180 OR EQUAL.
2. STEPS @ 12" O.C. ARE REQUIRED IN MANHOLES GREATER THEN 54" DEEP. STEPS SHALL BE NON-CORROSIVE POLYPROPYLENE COATED STEEL AND CONFORM TO ASTM C-478.
3. FLAT LIDS MAY BE USED IN LIEU OF ECCENTRIC CONES WHERE NECESSARY. FLAT LIDS SHALL BE OF ECCENTRIC DESIGN AND MEET H2O LIVE LOADING. NO FLAT RING AND COVERS WILL BE ALLOWED UNLESS APPROVED BY PUBLIC WORKS.
4. USE FERNCO COUPLING TO TRANSITION TO CONCRETE OR PVC PIPE AS APPROPRIATE.

1 TYPICAL DROP MANHOLE DETAIL

SCALE: NOT TO SCALE

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DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

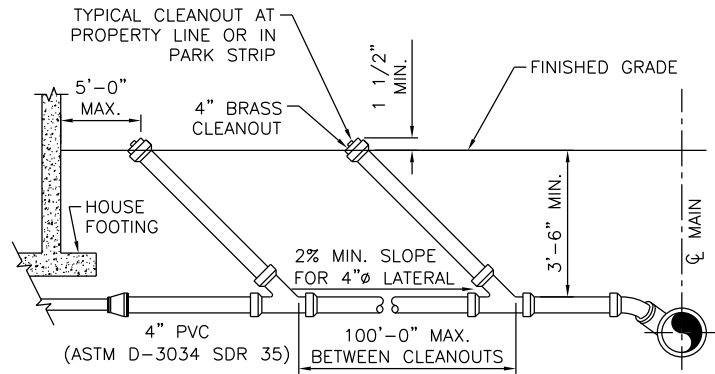
TYPICAL DROP MANHOLE

SHEET

16

LATERAL NOTES:

1. CLEANOUTS ARE REQUIRED AT A MAXIMUM OF 100'-0" SPACING ALONG LATERALS AND AT EACH SERIES OF BENDS AMOUNTING TO 90°.
2. CLEANOUTS MUST BE LOCATED AT PROPERTY LINE AND WITHIN 5' OUTSIDE OF A FOUNDATION WALL.
3. TAPS ON EXISTING MAIN SHALL BE CORED AND ROMAC SEWER SADDLE WITH STAINLESS STEEL BANDS OR APPROVED EQUAL.
4. SANITARY SEWER LATERALS TO BE GREEN PVC, TO DIFFERENTIATE FROM WHITE LAND DRAIN LATERALS.
5. CONTRACTOR TO EXTEND LATERAL 10'-0" BEYOND PROPERTY LINE. MARK END WITH 2x4, PAINTED GREEN FOR SEWER, WHITE FOR LAND DRAIN.
6. LOCATION OF AS-BUILT LATERALS AND CLEANOUTS MUST BE PROVIDED TO THE CITY ENGINEER.
7. RAIN GUTTER DOWN SPOUTS AND SURFACE INLET CONNECTIONS TO LATERAL ARE PROHIBITED.

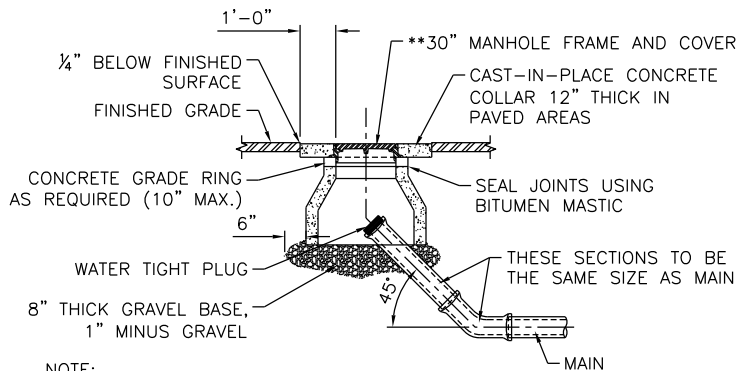


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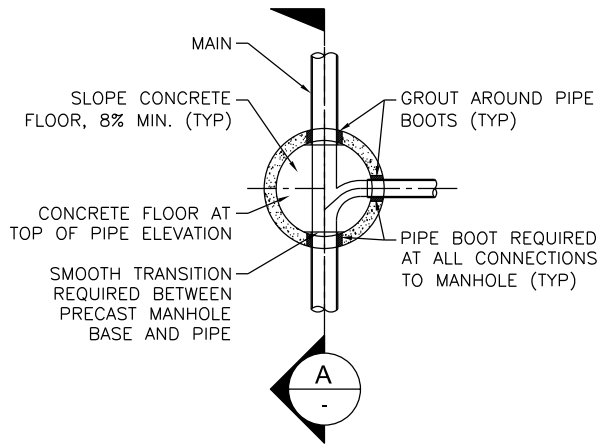
PROFILE OF TYPICAL LATERAL

SCALE: NOT TO SCALE

**SEWER MANHOLES SHALL BE VENTED & LABELED "SEWER"
LAND DRAIN MANHOLES SHALL BE NON-VENTED & LABELED "LAND DRAIN"



NOTE:
GRAVEL BASE TO BE 12" LARGER THAN
OUTSIDE DIAMETER OF MANHOLE CONE.



2

TEMPORARY MAIN CLEANOUT

SCALE: NOT TO SCALE

3

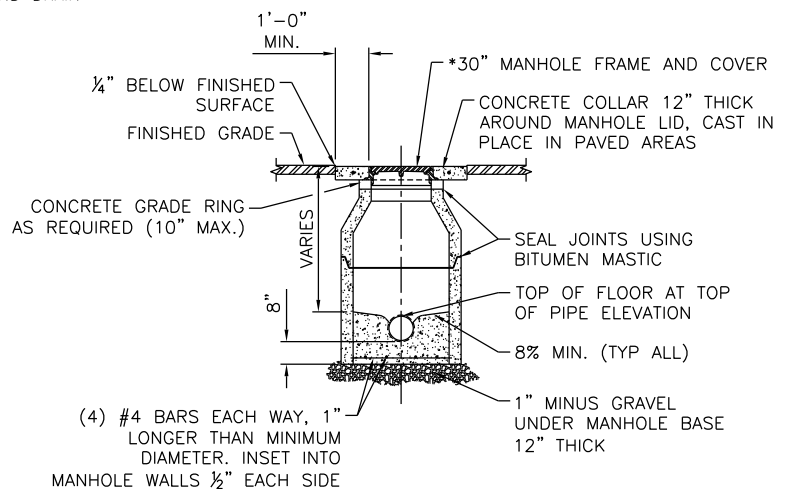
MANHOLE PLAN BELOW CONE

SCALE: NOT TO SCALE

*SEWER MANHOLES SHALL BE VENTED & LABELED "SEWER"
LAND DRAIN MANHOLES SHALL BE NON-VENTED & LABELED "LAND DRAIN"

MANHOLE NOTES:

1. INVERT ELEVATION DROP BETWEEN INFLOW AND OUTFLOW SHALL BE 0.20 FT MIN.
2. MANHOLE WALL AND CONE SECTION SHALL CONFORM TO ASTM C-478.
3. MANHOLE SHALL BE 5'-0" Ø IF MAIN IS GREATER THAN 12" Ø, OR IF MORE THAN THREE MAIN PIPES CONNECT TO MANHOLE, OR IF OTHERWISE SPECIFIED ON DRAWINGS.
4. LIFT HOLES SHALL BE FILLED WITH GROUT.
5. MANHOLE CONE SHALL BE ECCENTRIC.
6. STEPS @ 12" O.C.C ARE REQUIRED IN MANHOLES GREATER THEN 54" DEEP. STEPS SHALL BE NON-CORROSIVE POLYPROPYLENE COATED STEEL AND CONFORM TO ASTM C-478.
7. IF MANHOLES ARE TOO SHALLOW FOR CONE SECTION, USE FLAT CONCRETE LID INSTEAD.



A

TYPICAL MANHOLE SECTION

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DEVELOPMENT STANDARDS SYRACUSE CITY CORPORATION

SEWER AND LAND DRAIN STANDARDS

SHEET

17

1. BLOW-OFF VALVE REQUIRED IN TEMP. DEAD-ENDED STREETS.
2. CUL-DE-SAC CONNECTIONS TO BE MADE USING MAIN SIZE x 4" MJ REDUCER.
3. ON TEMPORARILY DEAD-ENDED STREETS CONNECTIONS SHALL BE MADE USING MAIN SIZE x 4" MJ TEE.

1

TYPICAL BLOWOFF VALVE DETAIL

SCALE:NOT TO SCALE

*LOCATE STANDPIPE AS DIRECTED BY
ENGINEER. USE 5" DIA. PIPE FOR
2" AIR VAC/AIR RELEASE. USE
6" DIA. PIPE FOR 2½" + AIR
VAC/AIR RELEASE.

2

TYPICAL 2" AIR RELEASE VALVE MANHOLE AND SPLASH BLOCK

SCALE:NOT TO SCALE

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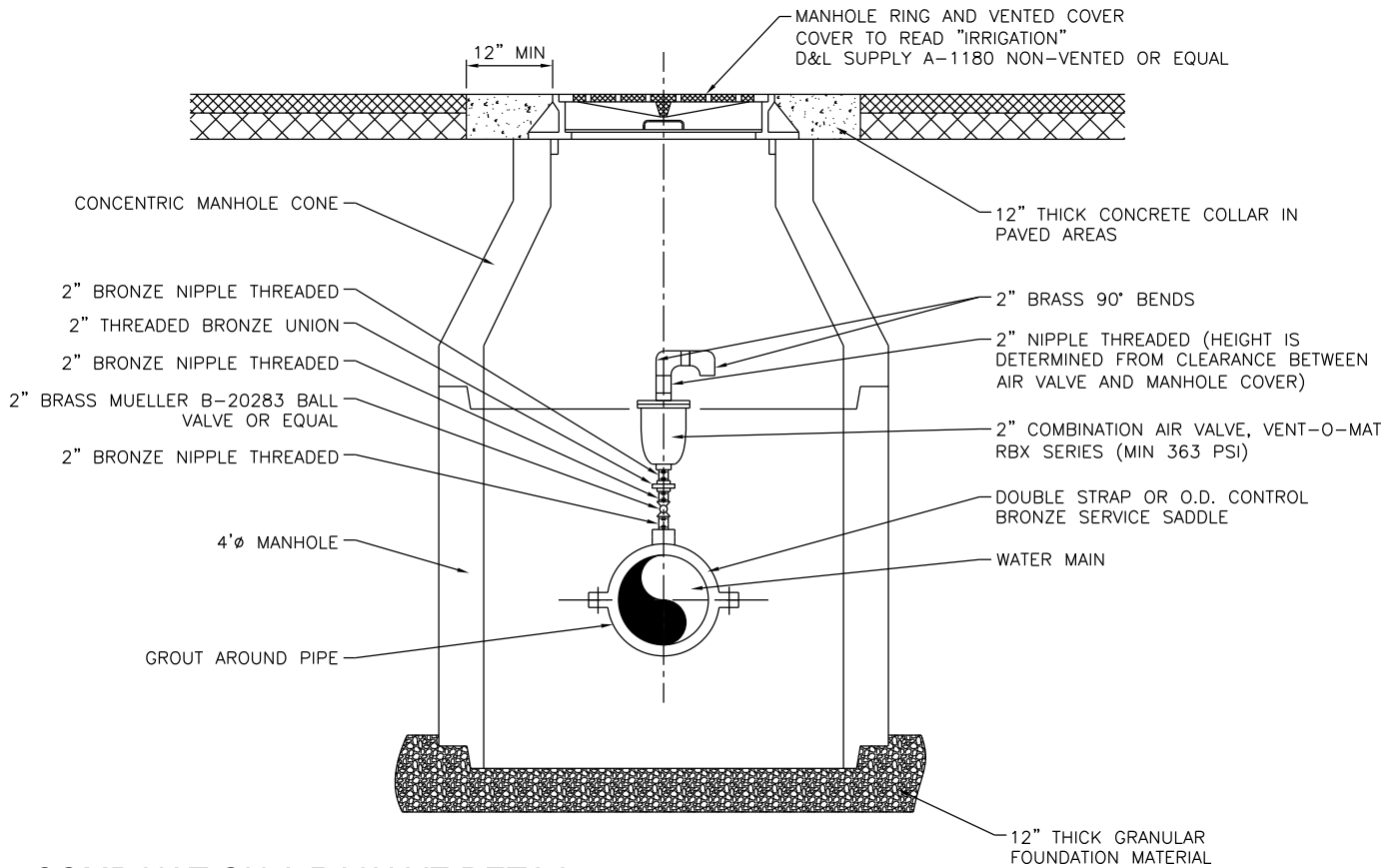


DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

CULINARY DETAILS

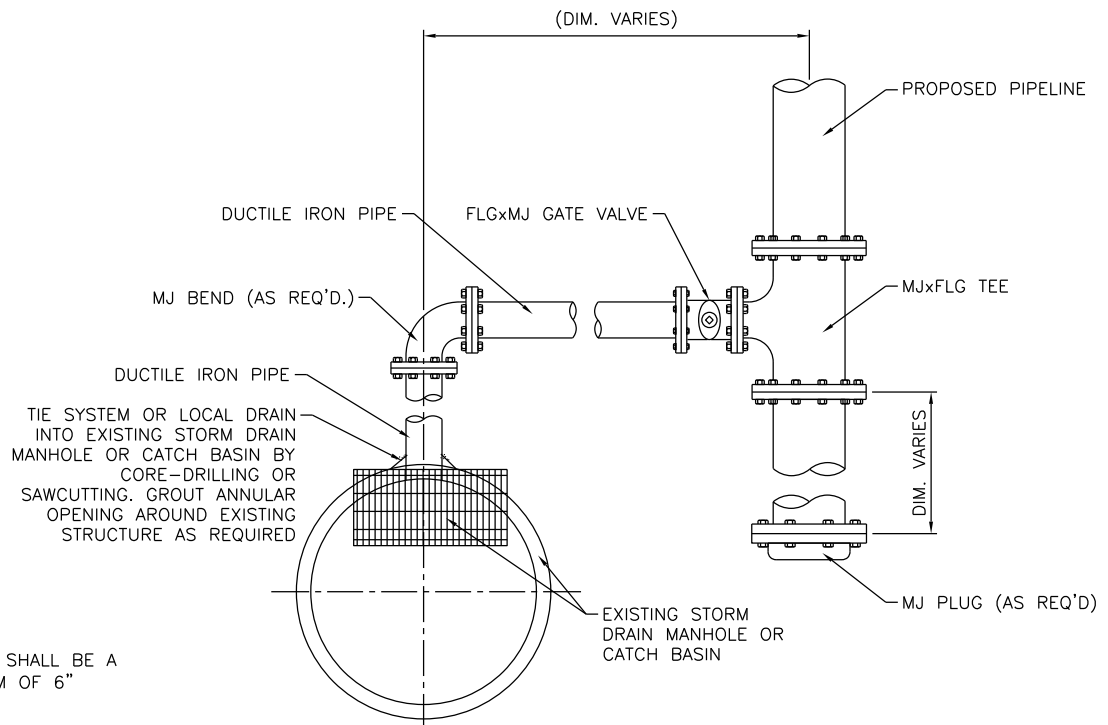
SHEET

18



2 COMBINATION AIR VALVE DETAIL

SCALE: NOT TO SCALE



NOTE:
DRAINS SHALL BE A
MINIMUM OF 6"

1 LOCAL / SYSTEM DRAIN VALVE DETAIL

SCALE: NOT TO SCALE

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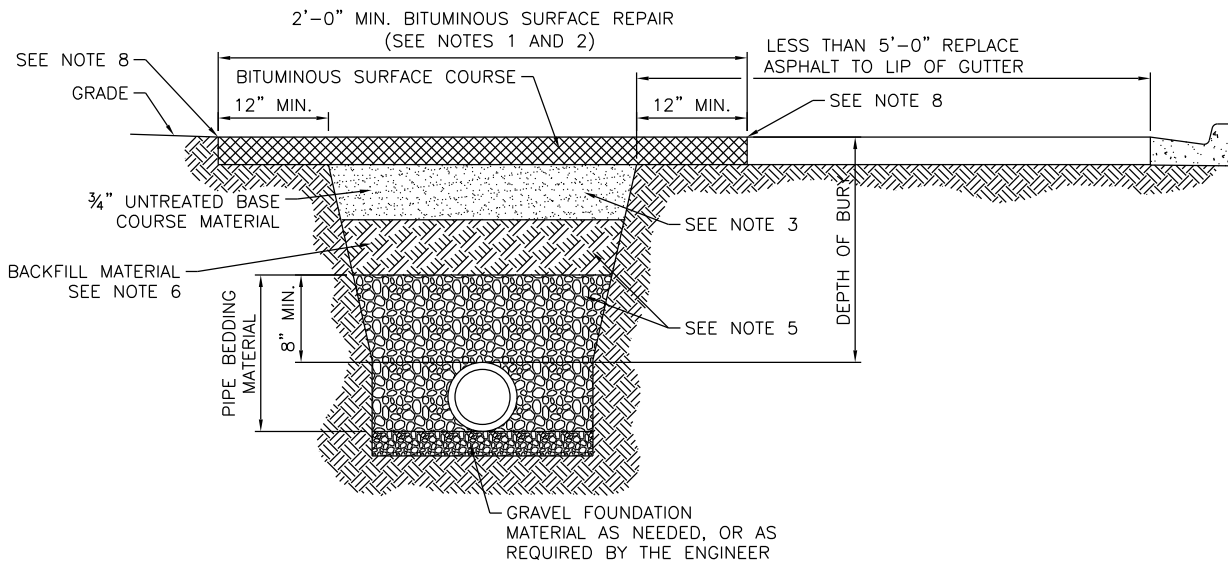


DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION

COMBINATION AIR VALVE DETAIL
(SECONDARY WATER ONLY)

SHEET

19

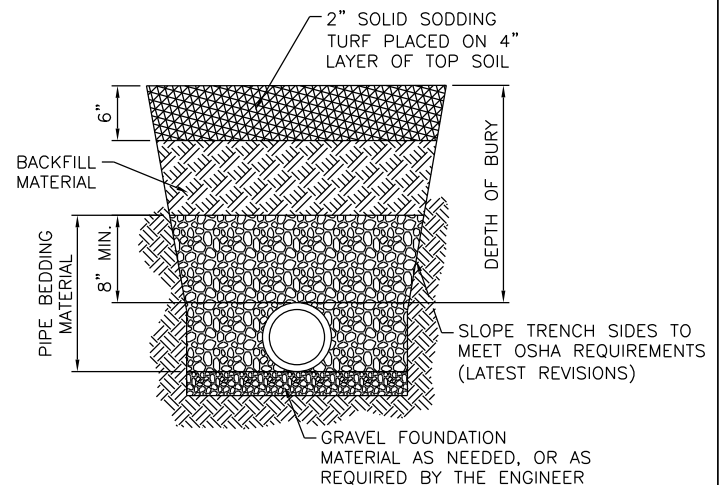


BITUMINOUS SURFACE REPAIR/TRENCH SECTION

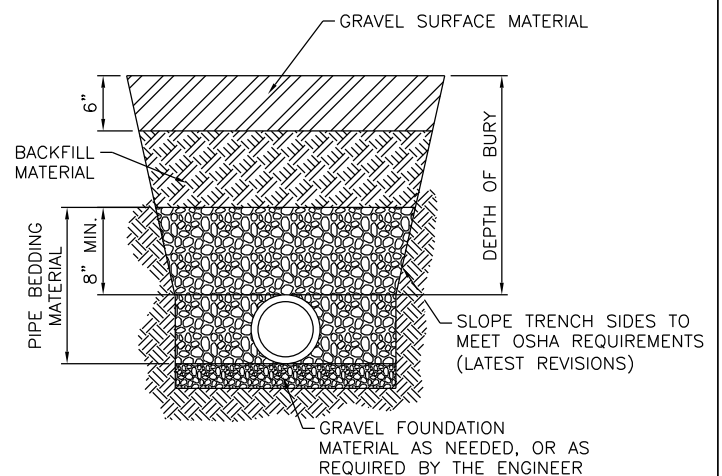
NOTES:

1. SAW CUT BITUMINOUS ASPHALT SURFACE 24" WIDER THAN TRENCH ON EACH SIDE FOR FINAL TRENCH REPAIR WHERE BITUMINOUS SURFACE EXISTS.
2. BITUMINOUS SURFACE IS TO BE 4" MIN. OR TO MATCH EXISTING THICKNESS, WHICHEVER IS GREATER, AND 6" FOR STATE ROADS, OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.
3. FOR TRENCH REPAIR, 3/4" UNTREATED BASE COURSE MATERIAL IS TO BE 12" OR TO MATCH EXISTING THICKNESS, WHICHEVER IS GREATER, FOR NEW ROAD CONSTRUCTION, 3/4" UNTREATED BASE COURSE MATERIAL IS TO BE 10" MIN. OR AS DIRECTED BY THE ENGINEER. BASE COURSE TO BE COMPACTED TO 96% ASTM D-1557.
4. SLOPE TRENCH SIDES TO MEET OSHA SAFETY REGULATIONS (LATEST REVISION).
5. BACKFILL AND BEDDING TO BE COMPACTED TO 96% ASTM D-1557 IN ROADWAYS AND 90% IN LANDSCAPED AREAS.
6. GRANULAR SUB-BASE 12" THICK BETWEEN BASE COURSE AND BACKFILL LAYERS AS DIRECTED BY ENGINEER. COMPACT TO 96% ASTM D-1557.
7. LOCATOR TAPE SHALL BE PLACED 12" ABOVE CENTERLINE OF PIPE FOR PRESSURIZED PIPELINES.
8. INITIAL PAVEMENT CUT SHALL BE AT EDGE OF OPEN TRENCH. A SECOND PAVEMENT CUT TO WIDEN BITUMINOUS SURFACE REPAIR AREA ONCE TRENCH IS BACKFILLED AND COMPACTED. MINIMUM WIDENED DISTANCE TO SECOND CUT IS SHOWN IN THE TABLE BELOW.
9. THIS STANDARD DOES NOT APPLY TO POTHOLES. POTHOLES SHALL BE PERFORMED IN ACCORDANCE WITH SYRACUSE CITY'S POTHOLES STANDARD. SEE SHEET 26 OF THE STANDARD DRAWINGS FOR ADDITIONAL INFORMATION.

MAX EXCAVATION DEPTH	30"	48"	>48"
TRENCH EDGE TO 2ND CUT	12"	24"	36"



TURF SURFACE TRENCH SECTION



GRAVEL SURFACE TRENCH SECTION

1

TYPICAL TRENCH SECTIONS

SCALE: NOT TO SCALE

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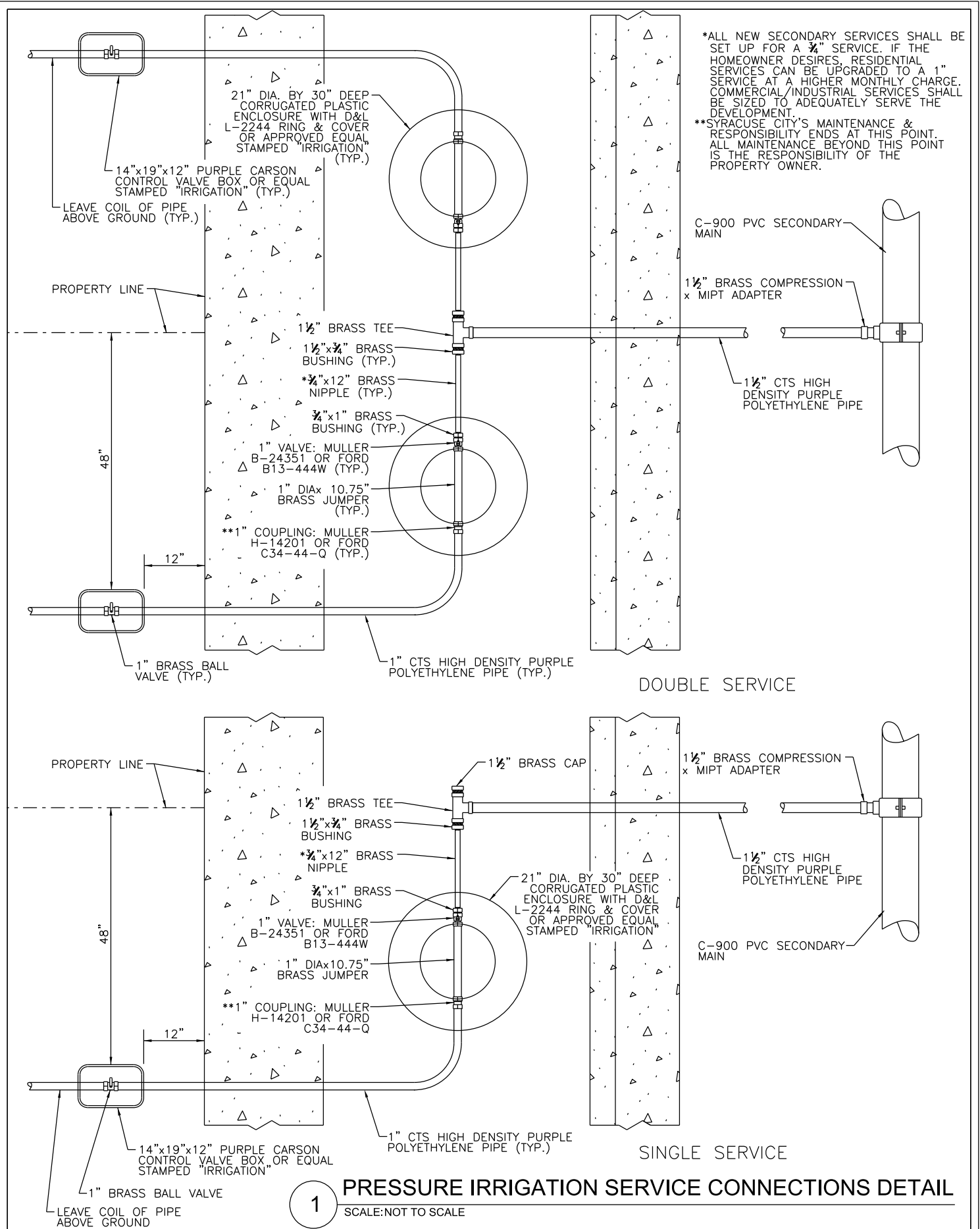


DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION
BITUMINOUS SURFACE REPAIR AND TYPICAL TRENCH SECTIONS

SHEET

20

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1	UPDATED TYPICAL SERVICE	BB	RCW	2/11/14
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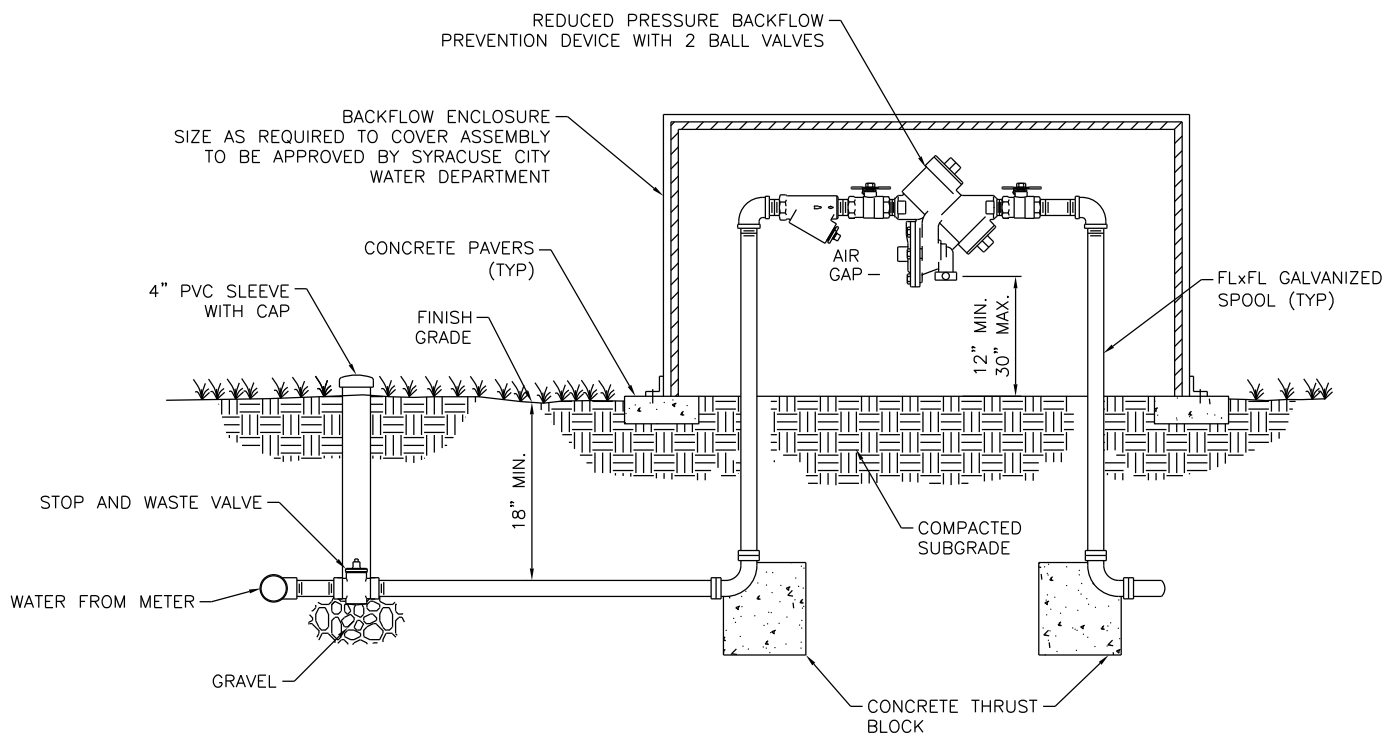
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DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION
 TYPICAL 3/4" & 1" PRESSURE
 IRRIGATION SERVICE CONNECTIONS

SHEET

21



NOTES:

1. ALL WORK MUST BE INSPECTED BY SYRACUSE CITY WATER DEPARTMENT PRIOR TO BACKFILL.
2. INITIAL TESTING OF BACKFLOW ASSEMBLY TO BE DONE BY DEVELOPER AND REPORTED TO SYRACUSE CITY WATER DEPARTMENT.
3. ALL BURIED DUCTILE IRON PIPES ARE TO BE POLY-WRAPPED.
4. CONSULT WITH DEPARTMENT ENGINEER ON CONFIGURATION FOR 8" CONNECTION TO SERVICE MORE THAN 120 LOTS.

1

REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY

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DEVELOPMENT STANDARDS SYRACUSE CITY CORPORATION

REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY

SHEET

22

NO.	REVISION DESCRIPTION	BY	APR	DATE

STREET CLASSIFICATION	BULB WATTAGE
ARTERIAL/MINOR ARTERIAL	200-400
COLLECTOR	100-200
LOCAL/LOW VOLUME LOCAL	40-60

BLACK UTILITY GRANVILLE STANDARD M HOUSING, SYMMETRIC, TYPE V, NO RIBS AND BANDS, ILED BULB, 120V, GOLD PAINTED CAST ALUMINUM STANDARD FINIAL, NEMA TWISTLOCK PHOTOCELL RECEPTACLE, DTL TWISTLOCK PHOTOCELL 120-277 WITH 25 FOOT PREWIRED LEADS

12' ALUMINUM SALEM POLE WITH POWDER COATED BLACK PAINT, 4" DIAMETER FLUTED, 0.25 WALL, 9" SQUARE, 3X3 TENON DIRECT BURY BASE

ROCKY MOUNTAIN POWER TRANSFORMER OR SECONDARY BOX

LEAVE TWO (2) FEET OF WIRE ABOVE GROUND ELEVATION FOR RMP TO TIE INTO BOX

CONTRACTOR TO FURNISH & INSTALL JUNCTION BOX WITH LOCK

3' MIN
10' MAX

24" MIN

24" MIN

LEAVE COIL OF WIRE THROUGH JUNCTION BOX

1/2" x 8' COPPER GROUNDING ROD

CONTRACTOR TO FURNISH & INSTALL 1" MIN. CONDUIT

4' MIN. DIRECT BURY BASE

GENERAL NOTES:

*COORDINATE WITH CITY FOR EXACT STREET LIGHT LOCATION

*ALL WIRE SHALL BE #8 GAUGE RHW OR EQUAL WITH THREE SINGLE STRAND COPPER WIRES COLORED AS FOLLOWED:
BLACK-POWER
WHITE-NEUTRAL
GREEN-GROUND

*JUNCTION BOX LID MUST SAY STREETLIGHT

*CONDUIT SHALL BE INSTALLED FROM TRANSFORMER TO JUNCTION BOX & UNDER ANY EXISTING OR FUTURE CONCRETE AREAS

*BASE OF LIGHT MUST BE FLUSH WITH TOP BACK OF CURB AND SIDEWALK

*CONTRACTOR INSTALLED STREETLIGHT MUST HAVE PHOTOCELL COVER FACING NORTH

*ALL STREET LIGHTS SHALL HAVE A MINIMUM CLEARANCE OF 10 FEET FROM ANY OVERHEAD POWER

*AFTER INSTALLATION IS COMPLETE, THE CONTRACTOR SHALL CONTACT THE CITY FOR INSPECTION
SYRACUSE CITY PUBLIC WORKS~801-825-7235

1

TYPICAL STREET LIGHT INSTALLATION

SCALE: NOT TO SCALE

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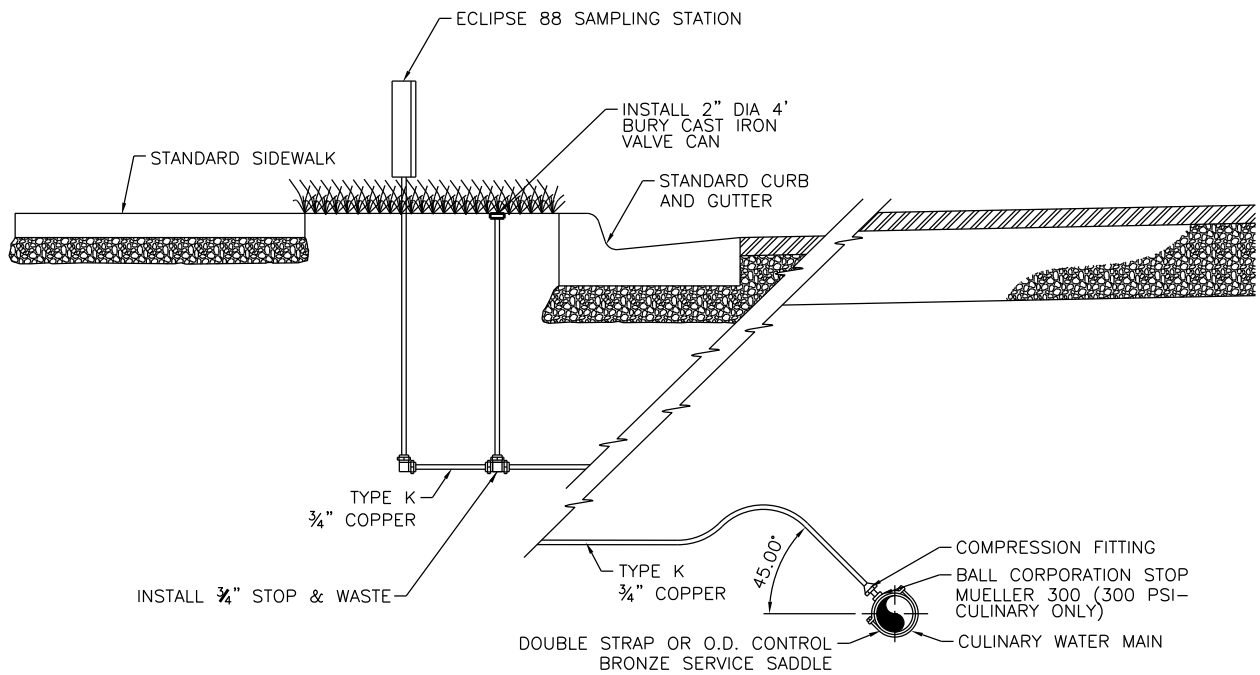
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STREET LIGHT INSTALLATION DETAIL

SHEET

23

NO. REVISION DESCRIPTION BY APRJ DATE



GENERAL NOTES:

1. SAMPLING STATIONS SHALL BE INSTALLED AS DIRECTED BY THE SYRACUSE CITY WATER SUPERINTENDENT.

1

CULINARY WATER SAMPLING STATION

SCALE: NOT TO SCALE

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**DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION**

CULINARY WATER SAMPLING STATION DETAIL

SHEET

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NO.	REVISION DESCRIPTION	BY	APR	DATE

 **Gentile St 3700 South**

TYPICAL NAMED STREET SIGN

No Outlet →

DEAD END STREET SIGN
(SEE NOTE 6)

DOUBLE BLADED
ADDRESS SIGN
(SEE NOTE 5)

2000 West St

STOP

ALL-WAY

30"x30" SIGN PER MUTCD

2"x2" GALVANIZED STEEL TUBE
TELESPAR POLE W/ $\frac{3}{8}$ " DIA.
HOLES 1" ON CENTER

PREFERRED STOP SIGN LOCATION
(CAN BE MOVED IF IN CONFLICT
W/ ADA RAMP)

END OF CURB RADIUS

TOP VIEW OF COORDINATE SIGNS

7' TO BOTTOM OF PRIMARY SIGN

2' MIN

30" LONG GALVANIZED
STEEL DIRECT BURY BASE

RIVETS

SIGN PER MUTCD

2"x2" GALVANIZED STEEL TUBE
TELESPAR POLE W/ $\frac{3}{8}$ " DIA.
HOLES 1" ON CENTER

STANDARD SIDEWALK

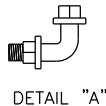
ANGLE BOLT (SEE DETAIL "A")

STANDARD CURB
AND GUTTER

30" LONG GALVANIZED
STEEL DIRECT BURY BASE

GENERAL NOTES:

1. ALL SIGNS AND SIGN PLACEMENT SHALL FOLLOW THE MINIMUM GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ANY DISCREPANCIES, ADDITIONS OR MODIFICATIONS WHICH DIFFER FROM SYRACUSE CITY STANDARDS, THE MUTCD SHALL GOVERN.
2. ALL SIGNS SHALL BE PLACED AS DIRECTED BY THE CITY ENGINEER.
3. ALL SIGNS MUST BE STANDARD SIGNS & SIZES FOUND IN THE MOST CURRENT EDITION OF THE MUTCD. ANY SIGNS NOT FOUND IN THE MUTCD MUST RECEIVE APPROVAL FROM THE CITY ENGINEER PRIOR TO PLACEMENT.
4. ALL SIGNS & COORDINATE SIGNS MUST HAVE HIGH INTENSITY SHEETING.
5. COORDINATE SIGNS SHALL BE HIGH INTENSITY. THE SIGNS SHALL HAVE A GREEN BACKGROUND WITH LETTERING MEETING MUTCD D3-1 TYPICAL FONT AND LETTERING SIZE. CONTACT SYRACUSE CITY FOR LOGO.
6. "No Outlet" SIGN TO BE MOUNTED ON TOP OF COORDINATE SIGNS ON ALL DEAD END STREETS GREATER THEN 300 FEET OR STREETS WHICH HAVE A DOGLEG OF 45° OR GREATER. SIGN SHALL HAVE A YELLOW BACKGROUND WITH BLACK LETTERING MEETING MUTCD D3-1 TYPICAL FONT AND LETTERING SIZE.



DETAIL "A"

1 TYPICAL SIGN DETAIL

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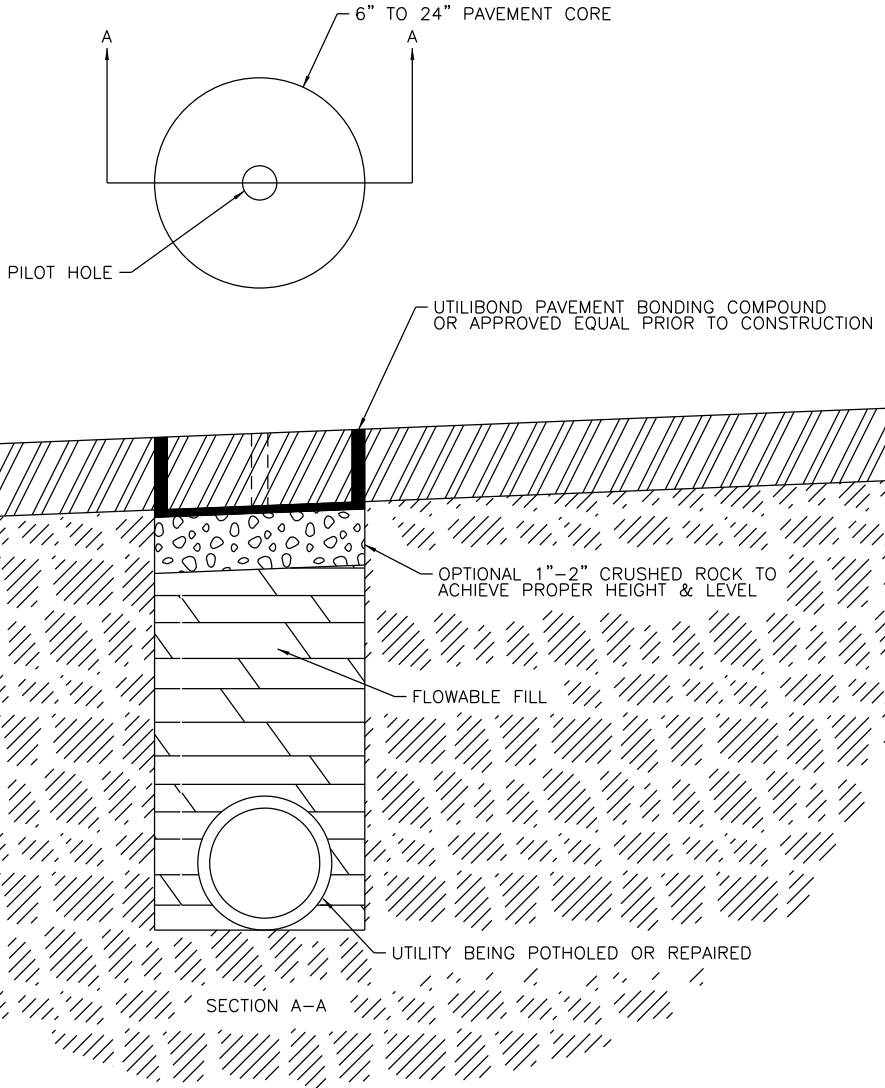
DEVELOPMENT STANDARDS SYRACUSE CITY CORPORATION

TYPICAL SIGN DETAIL

SHEET

25

BOND MATERIAL PROPERTIES		
PROPERTY	ASTM TEST METHOD	REQUIREMENTS
BOND STRENGTH, PSI (@ 70°F., 30 MIN. CURE)	C882	200 MIN.
COMPRESSIVE STRENGTH, PSI (@ 70°F., 60 MIN. CURE)	C109	1500 MIN.



GENERAL NOTES:

1. CONTRACTOR SHALL PLACE A TEMPORARY PAINT MARK ON THE PAVEMENT TO ASSURE CORE IS REPLACED IN THE SAME ORIENTATION.
2. CORING SHALL BE COMPLETED PERPENDICULAR TO THE HORIZON (NOT THE PAVEMENT), AND SHALL EXTEND THE FULL ASPHALT DEPTH. CORING SHALL BE COMPLETED USING A KEYHOLE CORING SAW CAPABLE OF REMOVING AN INTACT CORE OF PAVEMENT.
3. CORES SHALL NOT BE LESS THAN 6 INCHES IN DIAMETER AND NO MORE THAN 24 INCHES IN DIAMETER.
4. SOIL SHALL BE REMOVED USING AIR/VACUUM EXTRACTION METHODS AND DISPOSED PROPERLY OFF SITE.
5. FLOWABLE FILL SHALL BE USED TO BACKFILL THE HOLE TO WITHIN ONE TO TWO INCHES OF THE BOTTOM OF THE EXISTING PAVEMENT.
6. COMPACTED GRAVEL IF NECESSARY SHALL BE USED TO BRING THE POTHOLE TO THE BOTTOM OF PAVEMENT GRADE. THE TEMPORARY PAINT MARK SHALL BE USED TO ALIGN THE CORE TO ITS ORIGINAL POSITION AND THE GRAVEL SHALL BE USED TO LEVEL TO CORE SO THE FINISH GRADE IS FLUSH WITH THE SURROUNDING ASPHALT.
7. PAVEMENT BONDING COMPOUND SHALL BE USED TO RESTORE THE CORE TO ITS ORIGINAL CONDITION COMPLETELY FLUSH WITH THE SURROUNDING ASPHALT. THE COMPOUND SHALL BE POURED IN THE POTHOLE AND THE CORE PLACED IN AFTER CAUSING THE PAVEMENT BONDING COMPOUND TO FLOW TO THE SURFACE. ALL EXCESS BONDING AGENT SHALL BE REMOVED.
8. CORES SHALL BE ALLOWED TO CURE FOR A MINIMUM OF ONE HOUR PRIOR TO OPENING TO TRAFFIC.

1 UTILITY POTHOLE - KEYHOLE METHOD
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**DEVELOPMENT STANDARDS
SYRACUSE CITY CORPORATION**

UTILITY POTHOLE - KEYHOLE METHOD

SHEET

26

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