



# CONSTRUCTION STANDARDS

Issued February 23, 2023

## Revision Log:

- 12/28/18: Revised STD 600.07 Standard Bench
- 2/1/19: Revised STD 300.26 Combination Domestic Fire Service
- 2/1/19: Revised STD 300.29 Combination Domestic Fire Service Plan View
- 2/1/19: Revised STD 300.55 Standard Installation Fire Hydrant
- 2/1/19: Revised STD 300.56 Gate Valve Installation
- 2/28/23: Added STD 100.02 Bikeways-Sidewalk Guideline Chart
- 2/28/23: Added STD 100.05 Crosswalk and Stop Bar Placement
- 2/28/23: Added STD 100.06 Crosswalk and Stop Bar Placement 2/28/23:  
Added STD 100.08 Color Coding for Curb Painting
- 2/28/23: Added STD 100.09 Monolithic Concrete Median Detail
- 2/28/23: Added STD 100.16 Typical Corner Curb Extension Placement Detail
- 2/28/23: Added STD 100.17 Typical Mid-Block Curb Extension Detail
- 2/28/23: Revised STD 200.11 Typical Local Street with Standard Curb & Gutter
- 2/28/23: Removed STD 200.13 Typical Section for 26' Local Street with Mountable Curb and Gutter
- 2/28/23: Removed STD 200.21 Typical Section for 30' Minor Collector Street with Standard Curb and Gutter
- 2/28/23: Removed STD 200.23 Typical Section for 30' Minor Collector Street with Mountable Curb and Gutter

# TABLE OF CONTENTS

## CONSTRUCTION STANDARDS

Latest revision 02-23-23

2/28/23: Removed STD 200.35 Typical Section for 36' Major Collector Street with Standard Curb and Gutter

2/28/23: Revised STD 200.41 Typical Major Collector Street with Standard Curb & Gutter

2/28/23: Revised STD 200.61 Typical Arterial Street with Standard Curb & Gutter

2/28/23: Revised STD 300.26 Combination Domestic Fire Service Domestic 4" or Greater Fire 4" or Greater

2/28/23: Revised STD 300.29 Configuration: Combination Domestic Fire Service "Plan Review"

### Preface Curb, Gutter and Sidewalk

100.02	Bikeways-Sidewalk Guideline Chart	100.05
	Crosswalk and Stop Bar Placement	
100.06	Crosswalk and Stop Bar Placement	
100.08	Color Coding for Curb Painting	
100.09	Monolithic Concrete Median Detail	
100.10	Curb, Gutter and Sidewalk Expansion Joints	
100.11A	Standard Curb and Gutter	
100.11B	Standard Curb and Gutter in Driveways	
100.12	Standard Detail for Vee-Gutter Construction	
100.14	Concrete Valley Gutter	
100.16	Typical Corner Curb Extension Placement Detail	
100.17	Typical Mid-Block Curb Extension Detail	
100.20A	Standard Curb and Sidewalk in Driveways	
100.20B	Standard Curb and Sidewalk	
100.20C	Standard Mountable Curb and Gutter	
100.25A	Standard Curb, Gutter and Sidewalk in Driveways	
100.25B	Standard Curb, Gutter and Sidewalk	
100.25C	Mountable Curb, Gutter, Grassplot and Sidewalk	
100.30	Typical Mountable Curb Inlet in Low Point of Street	
100.35	Typical Mountable Curb Using "NR" Closed-Throat Inlet	
100.37	Detectable Warning Guidelines and Details	
100.38	Pedestrian Refuge Island in City Streets	
100.39	Pedestrian Refuge Island in Commercial Driveway Larger Than 35'	
100.40	Landscaping Standard Grassplot with Tree Plan View	
100.41	Vertical Curb and Grass Plot Sidewalk Ramps	
100.42	Mountable Curb Sidewalk Ramps	

# TABLE OF CONTENTS

## CONSTRUCTION STANDARDS

Latest revision 02-23-23

100.43	Curbside Sidewalk Standard Entrance Residential and Commercial Method No. 2
100.44	Curbside Sidewalk Standard Entrance Residential and Commercial Method No. 1
100.50	Special Curb, Gutter and Sidewalk in Industrial Driveways
100.51	Curb, Gutter and Sidewalk with Grass Plot or Driveway
100.52	Type "A" Landscaping Curb
100.53	Planter Curb
100.54	Bituminous Concrete Curb
100.55	Special Curb for Class "E" Combination Inlet
100.56	Special Curb for Class "NR" Open Throat Inlet
100.57	Traffic Island Safety Curb

### Street

200.11	Typical Section - Typical Local Street with Standard Curb & Gutter
200.41	Typical Section - Typical Major Collector Street with Standard Curb & Gutter
200.51	Typical Section (Industrial/Commercial) for 50' Major Collector Street with Standard Curb and Gutter
200.61	Typical Section - Typical Arterial Street with Standard Curb & Gutter
200.72	Restoration Limits for Asphalt Pavement

### Water

300.14	1" Water Service
300.15	Typical Water Meter Pit, Valve Box or Blowoff Marker/Guard
300.25	Typical 4" Water Service
300.26	Combination Domestic Fire Service, Domestic 4" or Greater, Fire 4" or Greater
300.27	2" Water Service with Ford Pit Setter
300.29	Configuration: Combination Domestic Fire Service "Plan View"
300.30	Circular Frame and Cover for Precast Water Meter Vaults
300.31	Pre-Cast Concrete Water Meter Vault and Lid
300.40	Standard Water Details Buttress for Tees
300.41	Standard Installation for End Caps on Existing Water Mains
300.42	Water Main Realignment
300.43	Standard Water Details Buttress for Horizontal Bends
300.51	Blow-Off Hydrant
300.55	Standard Installation Fire Hydrant
300.56	Gate Valve Installation
300.57	Traffic Bearing 1" Water Service

# TABLE OF CONTENTS

## CONSTRUCTION STANDARDS

Latest revision 02-23-23

### Sewer

400.10	Manhole Frame and Cover Sanitary Sewer or Storm Water
400.11	Manhole Steps Sanitary Sewer or Storm Water
400.12	Manhole Configurations
400.13	48" Diameter Manhole for Pipes up to 24"
400.14	60" Diameter Manhole for 27" to 36" Pipes
400.15	72" Diameter Manhole for 42" to 48" Pipes
400.16	84" Diameter Manhole for 54" to 60" Pipes
400.17	90" Diameter Manhole for 72" Pipes
400.18	120" Diameter Manhole for 78" to 84" Pipes
400.19	Frame Anchorage for Precast Manholes
400.23	Internal Drop Connection
400.26	Force Main Air Valve Access Manhole
400.27	Force Main Access Manhole
400.28	Standard Doghouse Manhole Sewer or Storm Water
400.30	Concrete Cradle Sanitary Sewer or Stormwater Drains
400.31	Concrete Arch Sanitary Sewer or Stormwater Drains
400.32	Typical Detail Pipe Trench and Bedding
400.33	Sanitary Sewer Encasement
400.35	Utility Trench Repair
400.36	Subgrade
400.38	Standard Precast Concrete Adjustment Rings
400.40	Standard Cleanout for Sewer Lines in City Streets
400.42	Standard House Service Sewer Connection Using Plastic Pipe with Existing Sewer Main
400.43	Standard House Service Sewer Connection Cleanout Guard
400.45	Standard House Service Sewer Connection for New Construction Using Plastic Pipe
400.50	Deflection Test Mandrel Method

### Storm Drains

See Sewer Details: 400.10, 400.11, 400.13, 400.14, 400.15, 400.16, 400.17, 400.18, 400.19, 400.28, 400.30, 400.31, 400.32, 400.35, 400.36

500.10	Minimum Clearance Manhole Frame and Cover, Stormwater
500.45	Type "A-1" Inlet
500.46	Sidewalk Frame and Cover Type "A-1" and "B-1" Inlets
500.48	Type "B-1" Inlet
500.52	Precast NR Inlet Open and Closed Throat
500.53	Standard NR Inlet Frame and Grate

# TABLE OF CONTENTS

## CONSTRUCTION STANDARDS

Latest revision 02-23-23

500.54 Standard NR Inlet Frame, Grate and Support Beam

### Miscellaneous

600.01 LED Cobra Head Lighting Pole and Foundation  
600.02 Foundation for Lighting Pole  
600.04 Residential Ornamental Light Fixture  
600.05 Collector Road Ornamental Light Fixture  
600.06 Standard Trash Receptacle  
600.07 Standard Bench  
600.09 Sample Utility Separation Typical 26' Local Street  
600.12 Riverwalk  
600.21 CAD Standards for Contract Drawings



## PREFACE

This book of "Construction Standards" has been prepared by the City of Salisbury – Department of Infrastructure and Development to provide Engineers, Contractors and Developers with a catalog of Construction Standard Details authorized by the City of Salisbury.

Any Standards previously issued by the City of Salisbury are herewith superseded as of the latest revision date shown on the pertinent Standard.

All Engineers, Land Surveyors, and Contractors involved with the construction of roadways and utilities authorized by the City of Salisbury should become thoroughly familiar with contents of this book.

All materials shall be new, standard production, and made in the United States of America unless otherwise approved as a substitute by the City of Salisbury before use of the material.

These Standards may be revised periodically to reflect changes in regulations and technology. Items may be added or deleted at the City's discretion. These Standards are not intended to cover all materials purchased, or construction performed by the City of Salisbury or its Contractors. The City of Salisbury reserves the right to default to the Maryland Department of Transportation State Highway Administration Standard Specifications for Construction and Materials Manual (Current Edition) for clarification and reference.

Any obvious errors found or any comments that you may have regarding these Standards are welcome and will be given due consideration. Please submit them to:

City of Salisbury  
Department of Infrastructure and Development  
125 North Division Street  
Room 202  
Salisbury, MD 21801- 4940

Effective Date: 07-14-94

Latest Revision Date: 02-23-23

Telephone: 410-548-3170

TARGET MOTOR VEHICLE SPEED	TARGET (MAX.) MOTOR VEHICLE VOLUME (ADT)	KEY OPERATIONAL CONSIDERATIONS	APPLICABLE STREET CROSS-SECTION DETAIL	MOTOR VEHICLE LANES	LANE WIDTHS*		SIDEWALKS REQUIRED**	MINIMUM BIKE FACILITIES REQUIRED***	IS ON-STREET PARKING ALLOWED?	ADDITIONAL FEATURES REQUIRED
<15 MPH	N/A	DEAD-END/CUL-DE-SAC****	LOCAL STREET	2	10	10	YES, UNLESS DESIGNED AS SHARED STREET	BIKE BOULEVARD	YES	IF STREET IS DESIGNED TO ACCOMMODATE PARKING, CURB EXTENSIONS MUST BE PROVIDED AT FIRE HYDRANTS GUARANTEEING 20' CLEAR SPACE AT THOSE POINTS
		THRU STREET			8	10 MAX.				
20 MPH	<1,000-2,000	RESIDENTIAL	LOCAL STREET	2	10	10		BIKE BOULEVARD OR RAISED BIKE LANE	YES	PARKING AND CURB EXTENSIONS SHALL BE PROVIDED. LONG STRAIGHTAWAYS WITH LIMITED PARKING USE SHALL PROVIDE VERTICAL TRAFFIC CALMING ELEMENTS PER NACTO GUIDELINES
	<1,500-3,000	COMMERCIAL								
25 MPH	<1,500-3,000	ANY	MINOR COLLECTOR STREET	2	10	10	YES	RAISED BIKE LANE	YES	MIXED-USE STREETS WILL REQUIRE ADDITIONAL R.O.W. TO ACCOMMODATE LARGER SIDEWALKS, FRONTAGE ZONES, AND FURNISHING ZONES. SEE CITY OF SALISBURY COMPLETE STREETS DESIGN GUIDELINES FOR MORE
	3,000-6,000				10	11				
	6,000-9,000	INFREQUENT LEFT TURNS	MAJOR COLLECTOR STREET	2	11	11				
		FREQUENT LEFT TURN CONFLICTS		3	11	11				
	9,000+			3	11	11				
>26 MPH	<9,000	ANY	ARTERIAL STREET	3	11	11				CITY MAY REQUIRE CENTER TURN LANE TO BE A MEDIAN WITH ROUNDABOUTS AT MAJOR INTERSECTIONS BASED ON CRASH HISTORY AND TURN CONFLICT FREQUENCY
	9,000+									
				5	11	11	YES, OR SHARED USE SIDE PATH	PROTECTED BIKE LANE OR SHARED USE SIDE PATH	NO	MIDDLE TURN LANE SHALL BE A PLANTED MEDIAN EXCEPT AT DESIGNATED TURNING POINTS. ROUNDABOUTS SHALL BE REQUIRED AT MAJOR INTERSECTIONS

\* LANE WIDTH MAY BE INCREASED TO 12' IF ANTICIPATED TRUCK VOLUME EXCEEDS 9% OF ADT

\*\* CITY RESERVES THE RIGHT TO INCREASE REQUIRED SIDEWALK WIDTH IN ORDER TO ACCOMMODATE ANTICIPATED PEDESTRIAN VOLUME.

\*\*\* CITY RESERVES THE RIGHT TO REQUIRE MORE PROTECTIVE BIKE FACILITIES AS NEEDED DUE TO ANTICIPATED BIKE VOLUMES, TURN CONFLICTS AND OTHER SAFETY HAZARDS.

ALL BIKE FACILITIES SHALL BE DESIGNED AND INSTALLED PER THE NACTO URBAN BIKEWAY DESIGN GUIDE (LATEST EDITION) AND AASHTO GUIDELINES FOR THE DEVELOPMENT OF BICYCLE FACILITIES (LATEST EDITION) AND ANY OTHER GUIDELINES DEEMED APPLICABLE FOR THE SPECIFIC CIRCUMSTANCES PER THE CITY ENGINEER.

\*\*\*\* CUL-DE-SACS AND DEAD-ENDS ARE EXPLICITLY DISCOURAGED AND THE CITY MAY REQUIRE THE INSTALLATION OF SHARED-USE PATHS FROM SUCH STREET TYPES INTO THE LARGER GRID TO ENSURE SUCCESSFUL PED/BIKE ROUTES. CONNECTIVITY OF THE STREET GRID IS DESIRED. CONSTRUCTION OF SHARED STREETS IS HIGHLY ENCOURAGED IN MOST LOCAL STREET CONTEXTS.

CITY OF SALISBURY  
SALISBURY, MD

APPROVED

  
CITY ENGINEER

12-8-22

DATE

## BIKEWAY-SIDEWALK GUIDELINE CHART

DATE 6/27/21

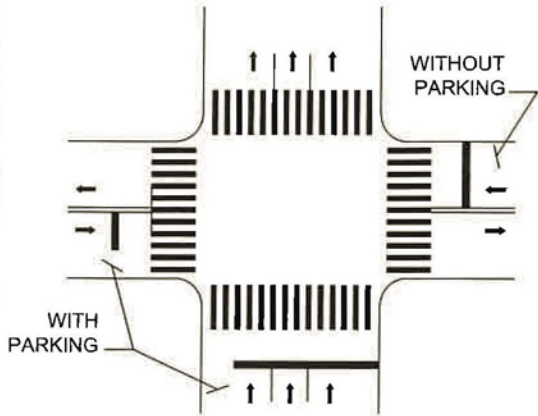
SCALE N.T.S.

DWG. NO. STD10002

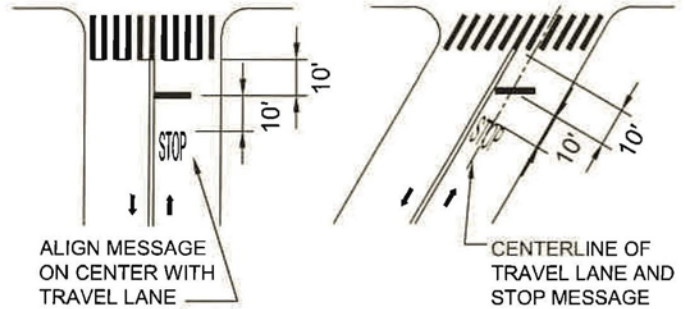
STD. NO 100.02



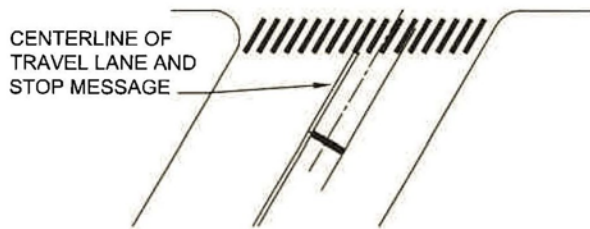
TYPICAL CROSSWALK & STOP BARS



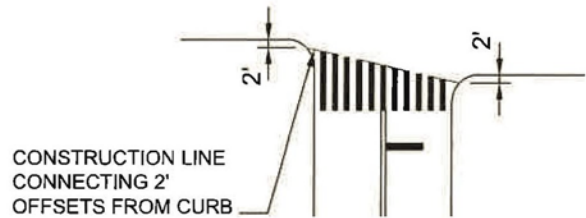
DETAIL A:  
TYPICAL STOP BAR & STOP MESSAGE PLACEMENT



DETAIL B:  
OPTIONAL STAGGERED STOP BAR FOR CONSTRAINED TURNS



DETAIL C:  
TRAPEZOIDAL CROSSWALKS AT OFFSET CURBLINES



1. THE FRONT OF CROSSWALK SHALL BE SET BACK 2' FROM THE CURBLINE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR FOR ACCESSIBILITY (SEE NOTE 2).
2. AT CORNERS WITH APEX PEDESTRIAN RAMP(S), THE LANDING AREA MUST FALL WITHIN THE CROSSWALK(S), IN SOME CASES REQUIRING WIDENING OF THE CROSSWALK(S) OR MARKING AN EXTENSION AT THE CORNER.
3. CROSSWALKS SHALL BE INSTALLED AT ANY SIGNALIZED, STOP-CONTROLLED, OR YIELD-CONTROLLED LEG OF AN INTERSECTION, UNLESS OTHERWISE SPECIFIED.
4. STOP BARS SHALL BE INSTALLED IN ANY SIGNALIZED OR STOP CONTROLLED TRAVEL LANE ENTERING THE INTERSECTION
5. ALL STOP BARS SHALL BE 10' OFFSET FROM THE BACK OF THE CROSSWALK, PARALLEL TO THE BACK OF CROSSWALK, UNLESS OTHERWISE SPECIFIED.
6. STOP BARS MAY BE STAGGERED OR SETBACK TO ACCOMMODATE LARGE VEHICLE TURNS.
7. PRESENCE OR ABSENCE OF CURBSIDE PARKING SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. STOP BARS SHOULD EXTEND TO PARKING LANE STRIPE ON STREETS WITH STRIPED CURBSIDE PARKING. STOP BARS SHOULD EXTEND TO 8' FROM CURB, OR AS DETERMINED BY ENGINEER, ON STREETS WITH UNSTRIPED CURBSIDE PARKING.
8. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ON A PLAN OR ORDER, THE BACK OF CROSSWALK SHALL EXTEND TO WHICHEVER IS GREATEST OF THE FOLLOWING: THE BUILDING LINE (BACK OF SIDEWALK IF ADJACENT PARCEL IS UNDEVELOPED), THE FULL EXTENT OF THE CORRESPONDING CURB RAMP'S LANDING AREA, OR A MINIMUM WIDTH OF 8'.

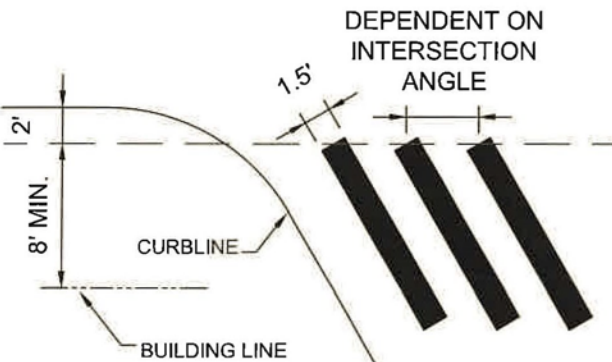
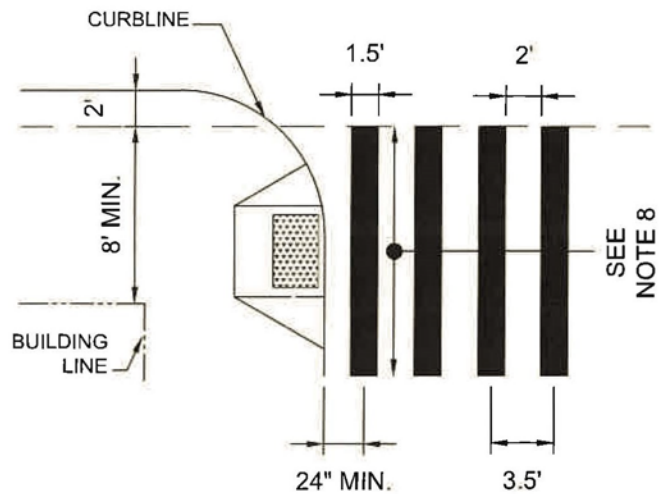
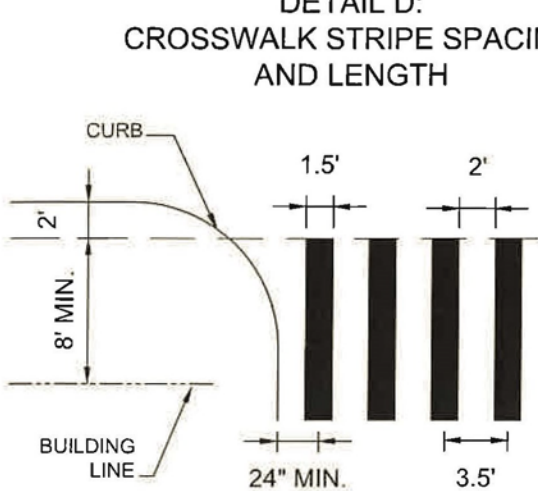
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*12-8-22*  
DATE  
*[Signature]*  
CITY ENGINEER

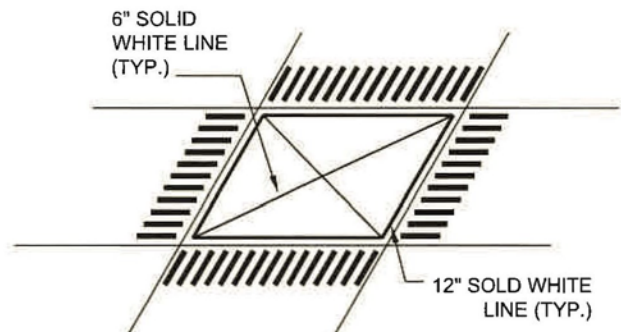
CROSSWALK AND  
STOP BAR  
PLACEMENT

DATE 6/27/21  
SCALE N.T.S.  
DWG. NO. STD10005  
STD. NO. 100.05

**DETAIL D:  
CROSSWALK STRIPE SPACING  
AND LENGTH**



**DO NOT BLOCK  
INTERSECTION MARKINGS**



1. THE FRONT OF CROSSWALK SHALL BE SET BACK 2' FROM THE CURBLINE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR FOR ACCESSIBILITY (SEE NOTE 2).
2. AT CORNERS WITH APEX PEDESTRIAN RAMP, THE LANDING AREA MUST FALL WITHIN THE CROSSWALK(S), IN SOME CASES REQUIRING WIDENING OF THE CROSSWALK(S) OR MARKING AN EXTENSION AT THE CORNER.
3. CROSSWALKS SHALL BE INSTALLED AT ANY SIGNALIZED, STOP-CONTROLLED, OR YIELD-CONTROLLED LEG OF AN INTERSECTION, UNLESS OTHERWISE SPECIFIED.
4. STOP BARS SHALL BE INSTALLED IN ANY SIGNALIZED OR STOP CONTROLLED TRAVEL LANE ENTERING THE INTERSECTION
5. ALL STOP BARS SHALL BE 10' OFFSET FROM THE BACK OF THE CROSSWALK, PARALLEL TO THE BACK OF CROSSWALK, UNLESS OTHERWISE SPECIFIED.
6. STOP BARS MAY BE STAGGERED OR SETBACK TO ACCOMMODATE LARGE VEHICLE TURNS.
7. PRESENCE OR ABSENCE OF CURBSIDE PARKING SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. STOP BARS SHOULD EXTEND TO PARKING LANE STRIPE ON STREETS WITH STRIPED CURBSIDE PARKING. STOP BARS SHOULD EXTEND TO 8' FROM CURB, OR AS DETERMINED BY ENGINEER, ON STREETS WITH UNSTRIPED CURBSIDE PARKING.
8. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ON A PLAN OR ORDER, THE BACK OF CROSSWALK SHALL EXTEND TO A MINIMUM WIDTH OF 8'.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED

*Jeff Hind*  
DATE  
10-8-22  
CITY ENGINEER

CROSSWALK AND  
STOP BAR  
PLACEMENT

DATE 6/27/21

SCALE NONE

DWG. NO. STD10006

STD. NO. 100.06



RED - No Parking



GREEN - Short Term Parking



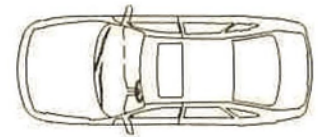
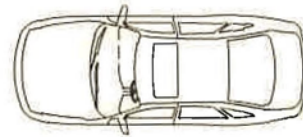
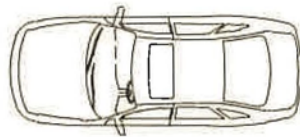
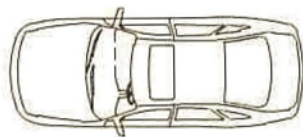
YELLOW - Commercial Loading Zone



BLUE - Handicap Parking



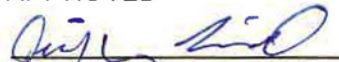
NO COLOR - Signage indicates classification



EXAMPLE OF CURB PAINTING

CITY OF SALISBURY  
SALISBURY, MD

APPROVED

  
CITY ENGINEER

2-23-23

DATE

COLOR CODING  
FOR  
CURB PAINTING

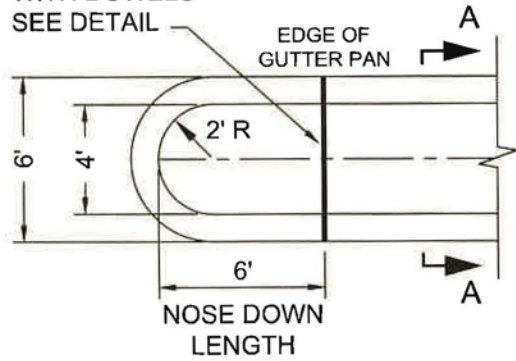
DATE 6/27/21

SCALE N.T.S.

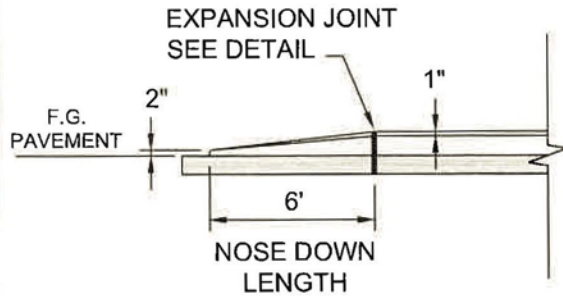
DWG. NO. STD10008

STD. NO 100.08

EXPANSION JOINT WITH DOWELS  
SEE DETAIL



**CONCRETE MEDIAN NOSE DOWN**  
PLAN VIEW

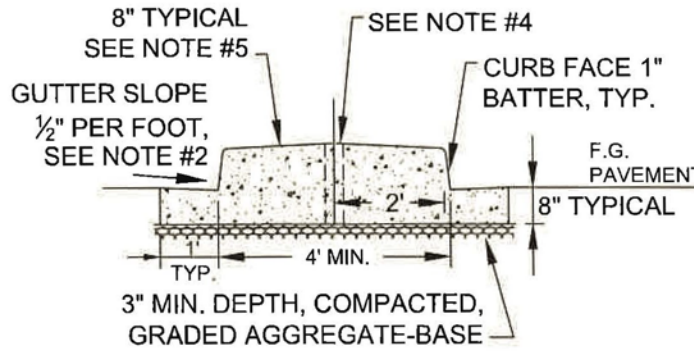


**NOSE DOWN AT APPROACH END**  
PROFILE VIEW

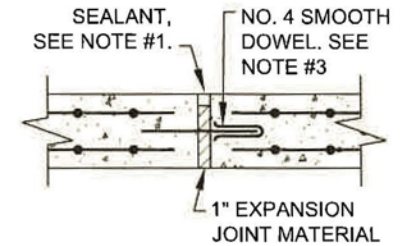
THIS 6" NOSE DOWN MAY ALSO BE USED IN CONJUNCTION WITH CURB ISLANDS.



**CONCRETE NOSE DOWN**  
ISOMETRIC VIEW



**8" CURB & GUTTER MONOLITHIC CONCRETE MEDIAN SECTION AA**  
NOT TO SCALE



**EXPANSION JOINT DETAIL**

**NOTES**

1. ALL CONCRETE FOR MONOLITHIC CONCRETE MEDIAN SHALL BE MD DEPT. OF TRANS. S.H.A. MIX NO. 3 WITH A 28 DAY COMPRESSIVE STRENGTH OF 3,500 P.S.I., AND SHALL HAVE AIR ENTRAINMENT OF 6%. ALL EXPOSED SURFACES SHALL HAVE A BROOM FINISH. SAW CUT JOINTS WILL BE INSTALLED AT 10' MAXIMUM INTERVALS AND 1" EXPANSION JOINTS AT 40' MAXIMUM INTERVALS. 1" MINIMUM RECYCLE TIRE RUBBER EXPANSION SHALL BE POSITIONED SLIGHTLY DEPRESSED FROM FLUSH, BUT NO MORE THAN 3/16" FROM FLUSH WITH SURFACE. SAW CUT JOINTS SHALL BE FILLED NO MORE THAN 24 HOURS AFTER CUT WITH SIKA TWO-PART ELASTOMERIC SEALANT OR APPROVED EQUIVALENT.
2. THE GUTTER PAN SLOPE SHALL BE 1/2" PER FOOT EXCEPT WHERE PAVEMENT SLOPES DIRECT WATER AWAY FROM THE MEDIAN, THEN THE GUTTER PAN PORTION OF MEDIAN ON THE HIGH SIDE OF THE STREET SHALL SLOPE TO MATCH THE ADJACENT PAVEMENT. THE CURB PORTION AND THE GUTTER PAN PORTION OF ALL MEDIAN SHALL BE PLACED MONOLITHIC.
3. 1" EXPANSION JOINTS SHALL RECEIVE 12" LONG NO. 4 SMOOTH DOWELS AT MID-DEPTH IN THE MEDIAN AT 12" OC..C. WITH A GREASED CAP ON ONE END, WITH 5" OF DOWEL ON EITHER SIDE OF THE JOINT.
4. INSTALL 4" Ø SCH 40 PVC SLEEVES FOR SIGN POSTS AT LOCATIONS DIRECTED BY THE CITY ENGINEER IN THE CENTER OF THE MEDIAN. SLEEVES SHALL BE 18" IN LENGTH, FLUSH WITH THE TOP SURFACE AND PLUMB.
5. 6" CURB FACE IN AREAS OF PARKING MAY BE USED WITH CITY ENGINEER APPROVAL. ALSO, THE GUTTER PAN MAY BE ELIMINATED DEPENDING ON DRAINAGE, BUT ONLY WITH CITY ENGINEER APPROVAL.

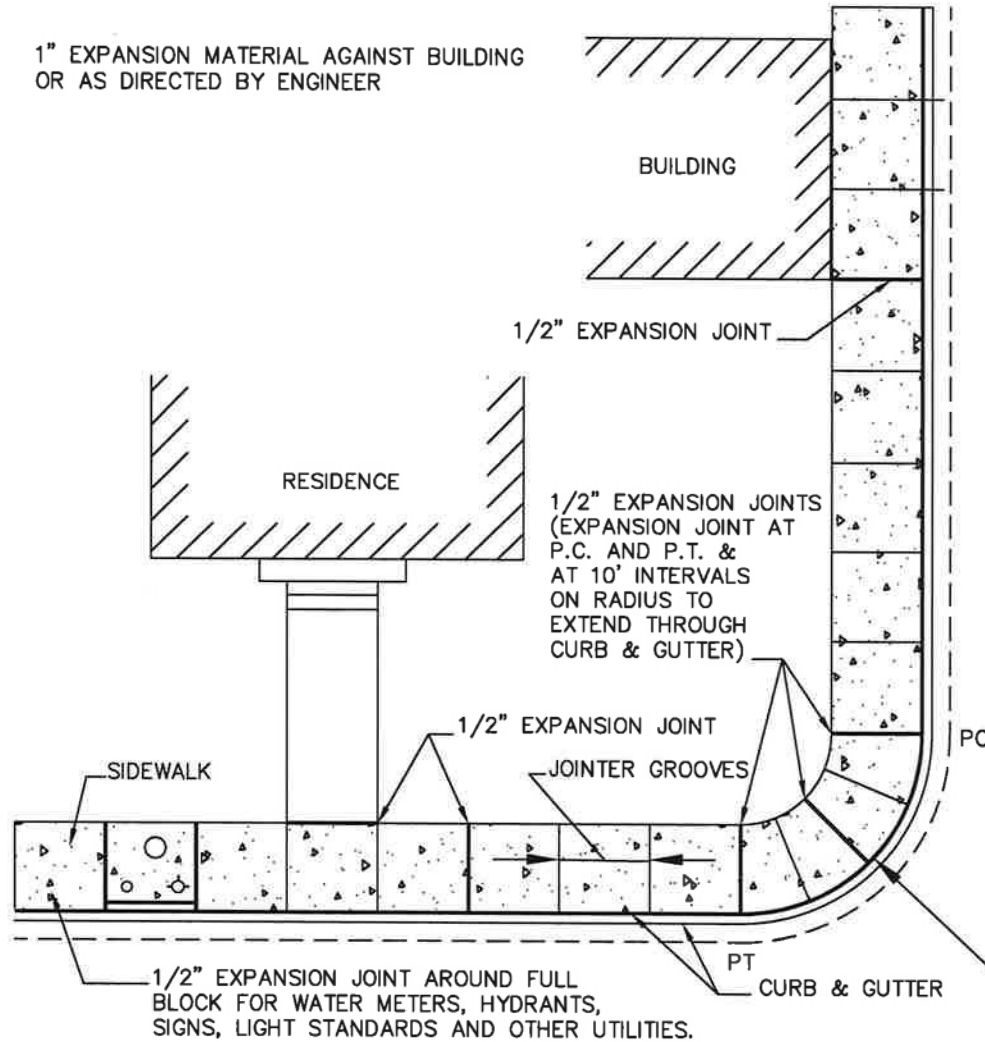
CITY OF SALISBURY  
SALISBURY, MD

APPROVED  
*John Lind*  
CITY ENGINEER  
12-8-22  
DATE

**MONOLITHIC CONCRETE  
MEDIAN  
DETAIL**

DATE 9/06/21  
SCALE N.T.S.  
DWG. NO. STD10009  
STD. NO 100.09

1" EXPANSION MATERIAL AGAINST BUILDING OR AS DIRECTED BY ENGINEER



**NOTES**

1. ALL EXPANSION MATERIAL SHALL BE OF A NON-EXTRUDING TYPE CONFORMING TO A.S.T.M. SPECIFICATION DESIGNATION D-544.
2. ALL EXPANSION JOINTS TO BE 1/2" WIDE X FULL THICKNESS OF CONCRETE UNLESS OTHERWISE SHOWN.
3. EXPANSION JOINTS SHALL BE PLACED AT 20' INTERVALS (MAX.) RADIAL JOINTS AT STREET. RETURNS SHALL BE PLACED EVERY 10' OR AS DIRECTED BY ENGINEER.
4. ALL JOINTS TO BE NEATLY TRIMMED AND PLACED SO AS TO BE 1/8" BELOW FINISHED SURFACE.
5. EXPANSION JOINTS SHALL BE PLACED IN ALL LOCATIONS SHOWN AND AS DIRECTED BY ENGINEER.
6. WHERE CURB AND SIDEWALK ONLY IS POURED, EXPANSION JOINTS SHALL EXTEND COMPLETELY THROUGH CURB.
7. NO ADDITIONAL PAYMENT FOR EXPANSION JOINTS SHALL BE MADE. THIS MUST BE INCLUDED IN PRICE BID FOR CURB, GUTTER, AND SIDEWALK.

**CONCRETE WORKMANSHIP**

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

**CITY OF SALISBURY**  
**SALISBURY, MD**

APPROVED

*1/2/18*

DATE

*Amanda H. Pelack*  
CITY ENGINEER

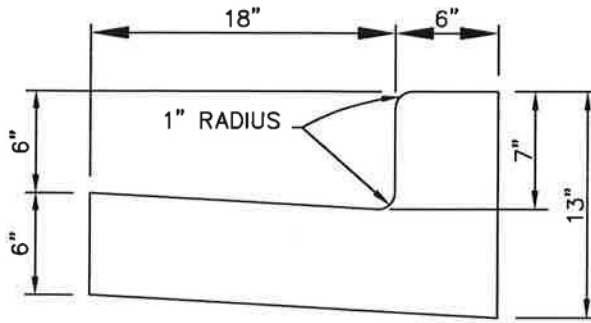
**CURB, GUTTER, AND SIDEWALK  
EXPANSION JOINTS**

DATE 1/13/77

SCALE N.T.S.

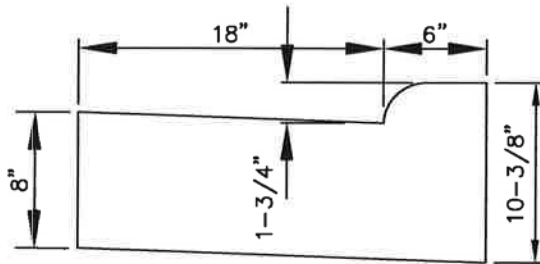
DWG NO. STD10010

STD. NO 100.10



A

STANDARD CURB & GUTTER



B

STANDARD CURB & GUTTER IN DRIVEWAYS

CONCRETE WORKMANSHIP

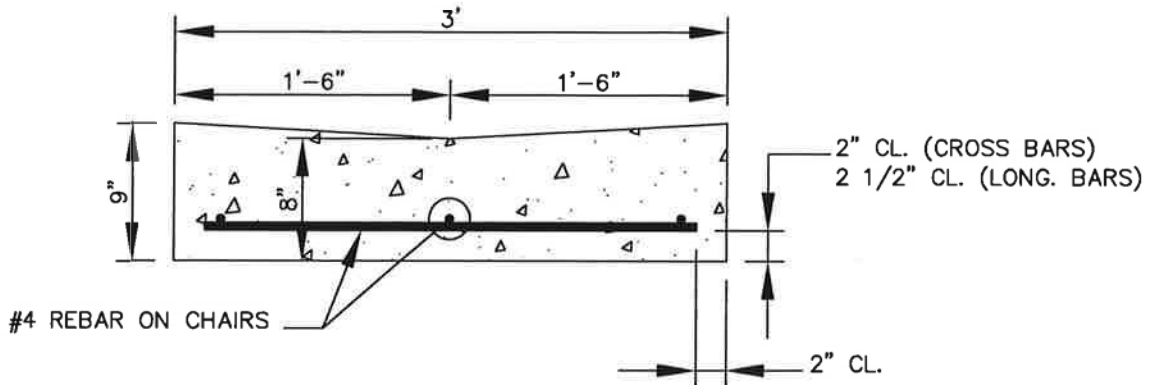
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS—CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF  
SALISBURY  
SALISBURY, MD

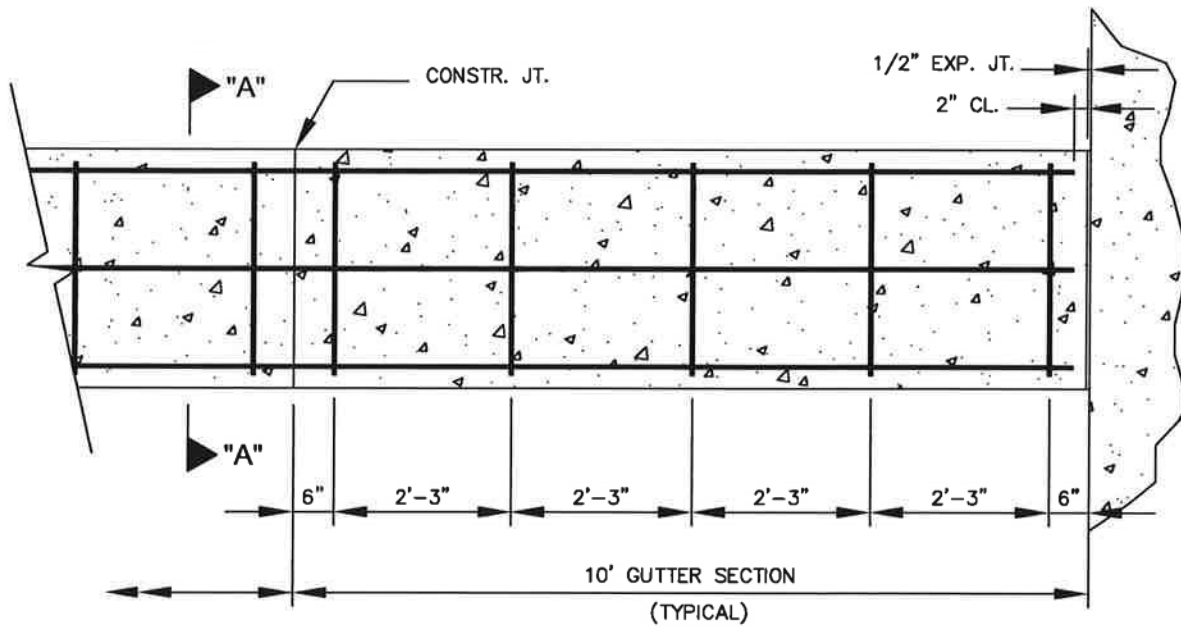
APPROVED  
*1/2/10*  
*Amanda Pollack* DATE  
CITY ENGINEER

STANDARD DETAILS FOR  
CURB & GUTTER

DATE 3/16/95  
SCALE NONE  
DWG. NO. STD10011  
STD. NO. 100.11



**SECTION "A-A"**



**PLAN**

**CONCRETE WORKMANSHIP**

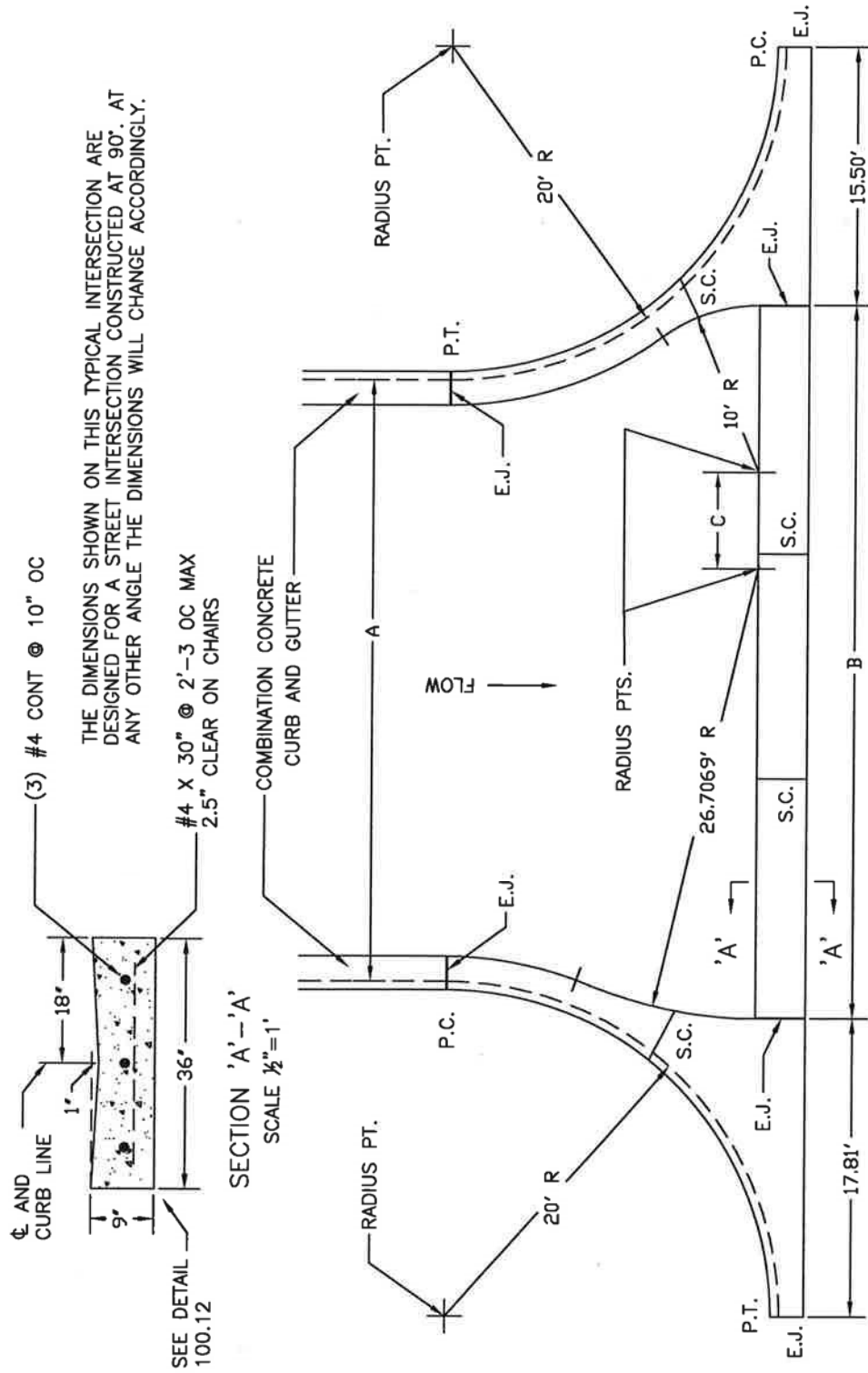
UNLESS OTHERWISE SPECIFIED, CONCRETE WORKMANSHIP SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS- CONCRETE SECTION IN THE "CONSTRUCTION & MATERIALS SPECIFICATIONS FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
*Amazda Pollack*  
DATE  
CITY ENGINEER

**STANDARD DETAIL FOR  
VEE-GUTTER  
CONSTRUCTION**

DATE 7/13/05  
SCALE NTS  
DWG. NO. STD10012  
STD. NO. 100.12



A	B	C
26'	32.69'	-4'
30'	36.69'	0'
36'	42.69'	6'
40'	46.69'	10'

- PLAN VIEW
- NOTES:
1. CONCRETE - MD. S.H.A. MIX NO.2
  2. FINISH - LIGHT TO MEDIUM BROOM FINISH
  3. E.J. = EXPANSION JOINT WITH PREFORMED JOINT FILLER (FULL DEPTH OF CONCRETE) BITUMINOUS FIBER TYPE - AASHTO M 213
  4. CONTROL JOINTS AT 10' O.C. MIN. IN VALLEY GUTTER AND CURB & GUTTER.
  5. S.C. = SAW CUT BEFORE CURING 1/3 DEPTH
  6. SEE CITY OF SALISBURY STANDARD 100.12 FOR VALLEY GUTTER DESIGN

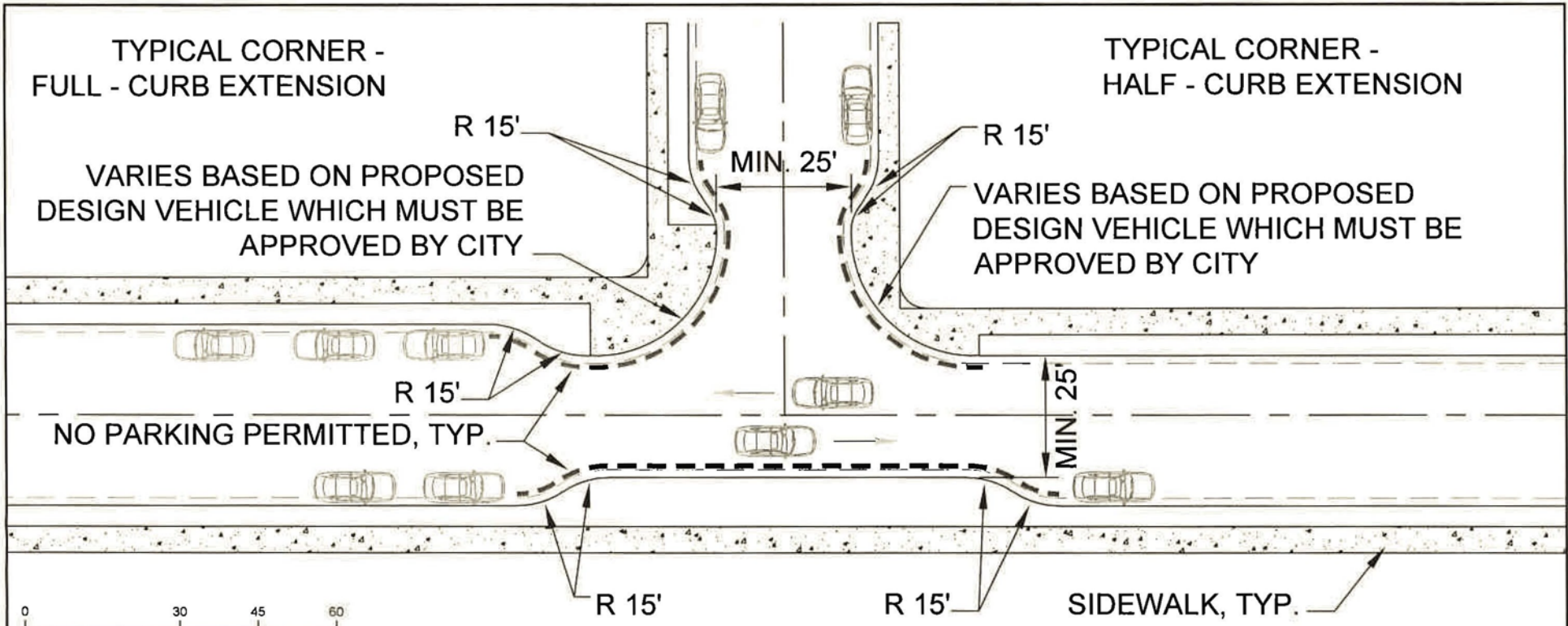
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Bellack*  
CITY ENGINEER

CONCRETE  
VALLEY GUTTER


DATE 03/28/12  
SCALE N.T.S.  
DWG. NO. STD10014  
STD. NO. 100.14





- CURB EXTENSION WIDTH IS TYPICALLY ONE FOOT LESS THAN THE WIDTH OF THE PARKING LANE. MINIMUM CURB EXTENSION LENGTH IS TYPICALLY EQUAL TO THE FULL WIDTH OF THE CROSSWALK, HOWEVER IT CAN BE LONGER WHEN APPROPRIATE OR NECESSARY.
- MUST ACCOMMODATE DESIGN VEHICLE; WHEN A CURB EXTENSION CONFLICTS WITH DESIGN VEHICLE TURNING MOVEMENTS, THE CURB EXTENSION SHOULD BE REDUCED IN SIZE RATHER THAN ELIMINATED WHEREVER POSSIBLE.
- AT CROSSINGS THAT HAVE LOW PEDESTRIAN VISIBILITY, CURB EXTENSION SHOULD BE LONG ENOUGH TO "DAYLIGHT" THE CROSSING, I.E. PROVIDE OPEN SIGHT LINES TO THE PEDESTRIAN CROSSING FOR APPROACHING MOTORISTS.
- CURB EXTENSIONS MUST BE DESIGNED SO AS TO MAINTAIN DRAINAGE OF STORM WATER FROM THE GUTTER AND NOT CAUSE PONDING; DEPENDING ON SITE SPECIFIC GRADING CONDITIONS. THIS MIGHT INCLUDE PROPERLY LOCATING OR RELOCATING CATCH BASINS OR UTILIZING DESIGN TREATMENTS THAT CHANNEL WATER THROUGH, AROUND OR IN BETWEEN CURB EXTENSION AND THE CURBLINE.
- WHEN A CURB EXTENSION IS USED ADJACENT TO A FIRE HYDRANT, THE LENGTH OF THE CURB EXTENSION SHOULD BE EQUAL TO OR GREATER THAT THE NO PARKING ZONE (TYPICALLY 20 FEET IN EITHER DIRECTION) AND THE HYDRANT SHOULD BE MOVED ONTO THE CURB EXTENSION.
- PAVING ON A CURB EXTENSION SHOULD MATCH THAT OF THE SURROUNDING SIDEWALKS.

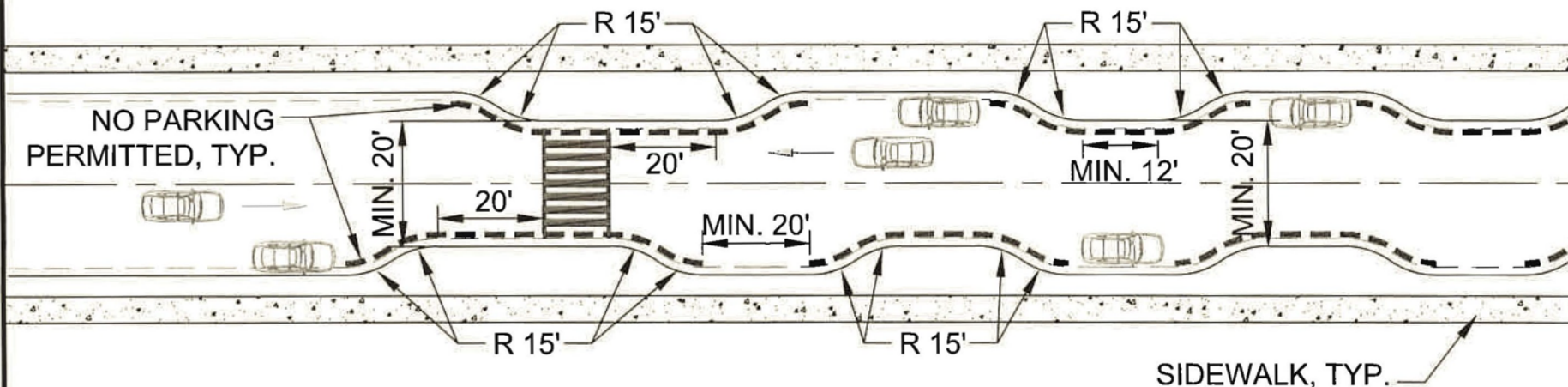
CITY OF SALISBURY  
 SALISBURY, MD

APPROVED  
  
 CITY ENGINEER  
 2-23-23  
 DATE

**TYPICAL CORNER CURB  
 EXTENSION PLACEMENT  
 DETAIL**

DATE	9/06/21
SCALE	1"=30'
DWG. NO.	STD10016
STD. NO	100.16

TYPICAL MID-BLOCK  
CURB EXTENSION -  
CROSSWALKS



TYPICAL MID-BLOCK  
CURB EXTENSION



GRAPHIC SCALE  
1 inch = 30 feet

- CURB EXTENSION WIDTH IS TYPICALLY ONE FOOT LESS THAN THE WIDTH OF THE PARKING LANE. MINIMUM CURB EXTENSION LENGTH IS TYPICALLY EQUAL TO THE FULL WIDTH OF THE CROSSWALK, HOWEVER IT CAN BE LONGER WHEN APPROPRIATE OR NECESSARY.
- MUST ACCOMMODATE DESIGN VEHICLE; WHEN A CURB EXTENSION CONFLICTS WITH DESIGN VEHICLE TURNING MOVEMENTS, THE CURB EXTENSION SHOULD BE REDUCED IN SIZE RATHER THAN ELIMINATED WHEREVER POSSIBLE.
- AT CROSSINGS THAT HAVE LOW PEDESTRIAN VISIBILITY, CURB EXTENSION SHOULD BE LONG ENOUGH TO "DAYLIGHT" THE CROSSING, I.E. PROVIDE OPEN SIGHT LINES TO THE PEDESTRIAN CROSSING FOR APPROACHING MOTORISTS.
- CURB EXTENSIONS MUST BE DESIGNED SO AS TO MAINTAIN DRAINAGE OF STORM WATER FROM THE GUTTER AND NOT CAUSE PONDING; DEPENDING ON SITE SPECIFIC GRADING CONDITIONS. THIS MIGHT INCLUDE PROPERLY LOCATING OR RELOCATING CATCH BASINS OR UTILIZING DESIGN TREATMENTS THAT CHANNEL WATER THROUGH, AROUND OR IN BETWEEN CURB EXTENSION AND THE CURBLINE.
- WHEN A CURB EXTENSION IS USED ADJACENT TO A FIRE HYDRANT, THE LENGTH OF THE CURB EXTENSION SHOULD BE EQUAL TO OR GREATER THAT THE NO PARKING ZONE (TYPICALLY 20 FEET IN EITHER DIRECTION) AND THE HYDRANT SHOULD BE MOVED ONTO THE CURB EXTENSION.
- PAVING ON A CURB EXTENSION SHOULD MATCH THAT OF THE SURROUNDING SIDEWALKS.

CITY OF SALISBURY  
SALISBURY, MD

APPROVED  
*[Signature]*  
CITY ENGINEER  
12-8-22  
DATE

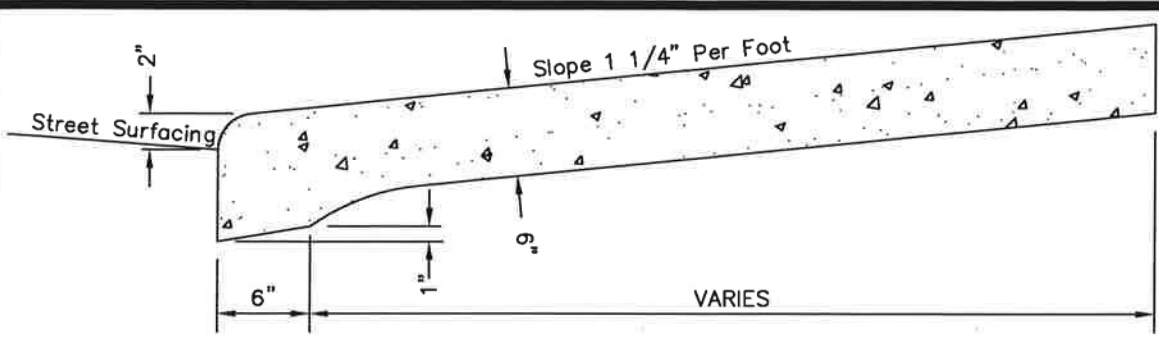
TYPICAL MID-BLOCK  
CURB EXTENSION PLACEMENT  
DETAIL

DATE 9/06/21

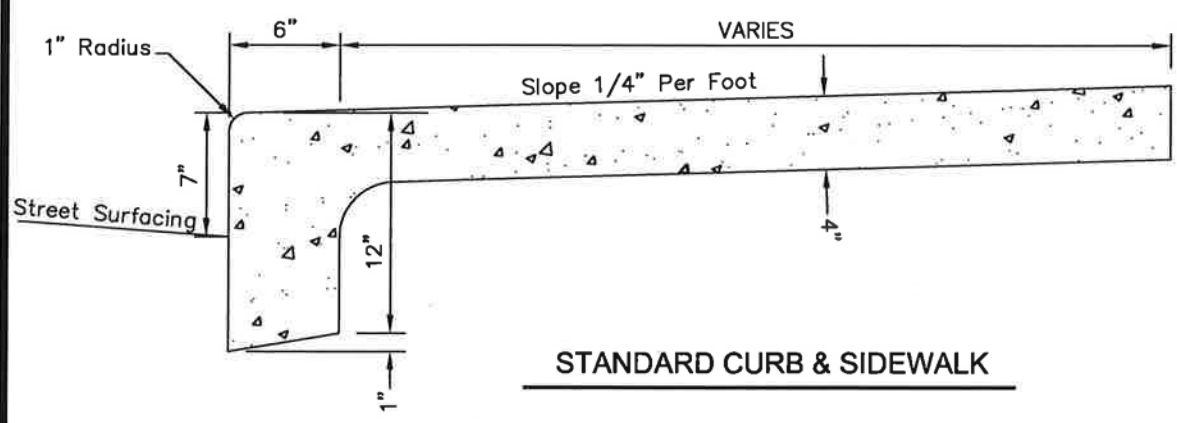
SCALE 1"=30'

DWG. NO. STD10017

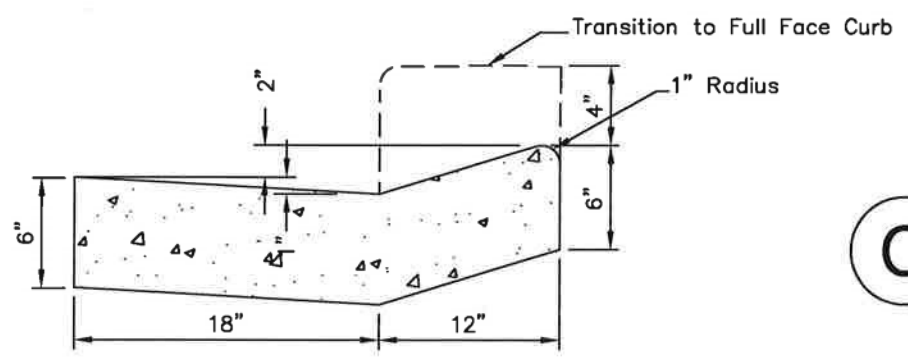
STD. NO 100.17



**STANDARD CURB & SIDEWALK IN DRIVEWAYS**



**STANDARD CURB & SIDEWALK**



**STANDARD MOUNTABLE CURB & GUTTER**

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

REVISED: 04/03/17

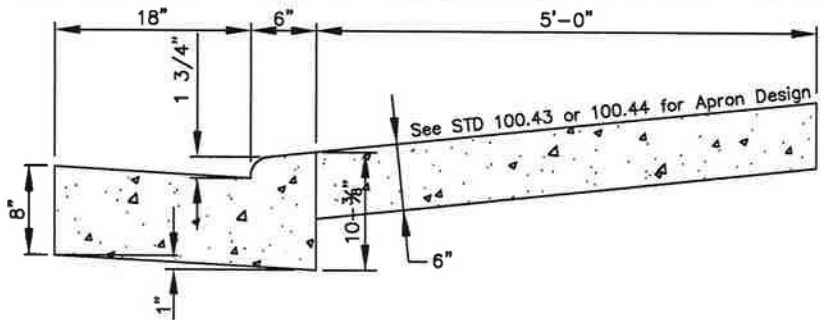
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

**STANDARD DETAILS**

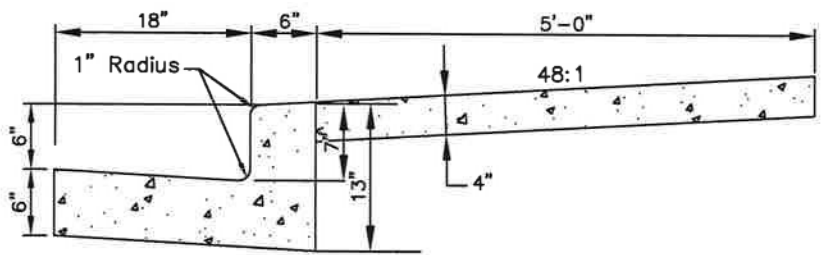
DATE 5/22/78  
SCALE NONE  
DWG. NO. STD10020  
STD. NO. 100.20

A



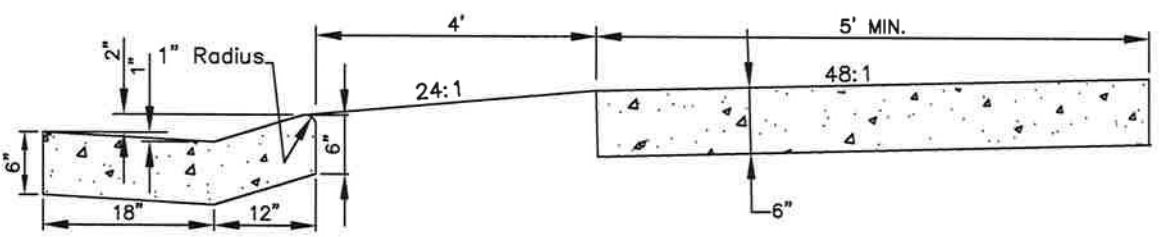
STANDARD CURB & GUTTER AND SIDEWALK IN DRIVEWAYS

B



STANDARD CURB & GUTTER AND SIDEWALK

C



MOUNTABLE CURB & GUTTER, GRASS PLOT AND SIDEWALK

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

NOTE: 6" OF CRUSHED STONE GAB WILL BE PLACED UNDER THE CURB AND GUTTER.

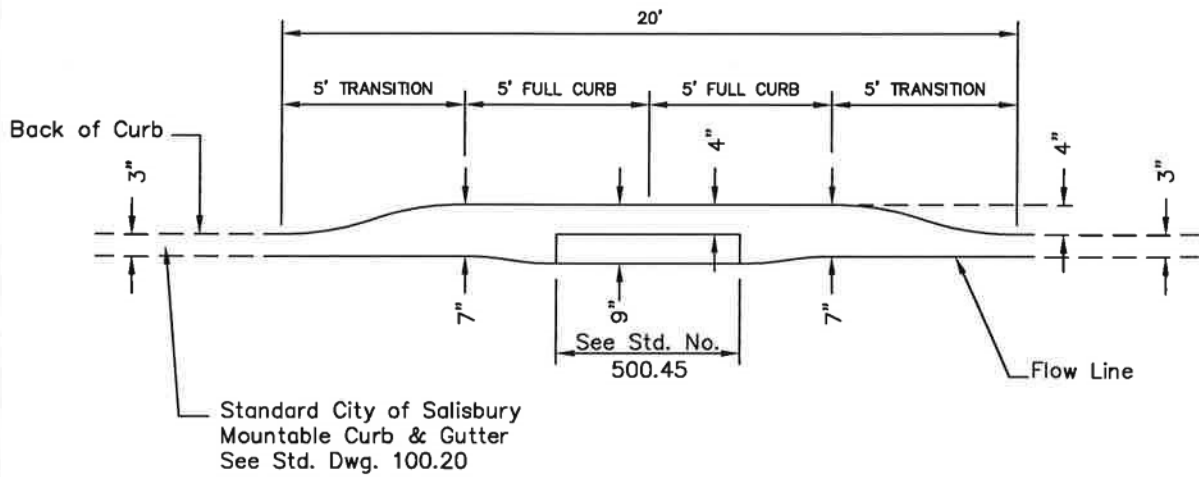
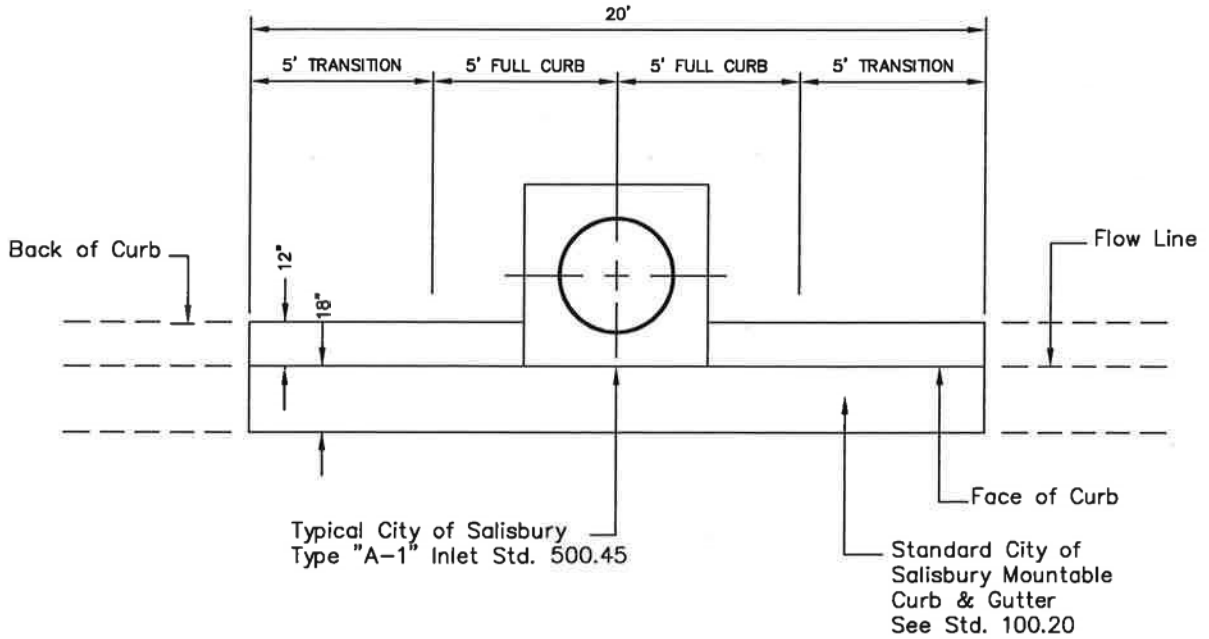
CITY OF SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

STANDARD DETAILS FOR  
CURB & GUTTER AND  
SIDEWALK CONSTRUCTION

DATE	1/09/53
SCALE	NONE
DWG NO.	STD10025
STD. NO	100.25

# TOP VIEW



# FRONT VIEW

## CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED

*1/2/18*

DATE

*Amanda Pollack*  
CITY ENGINEER

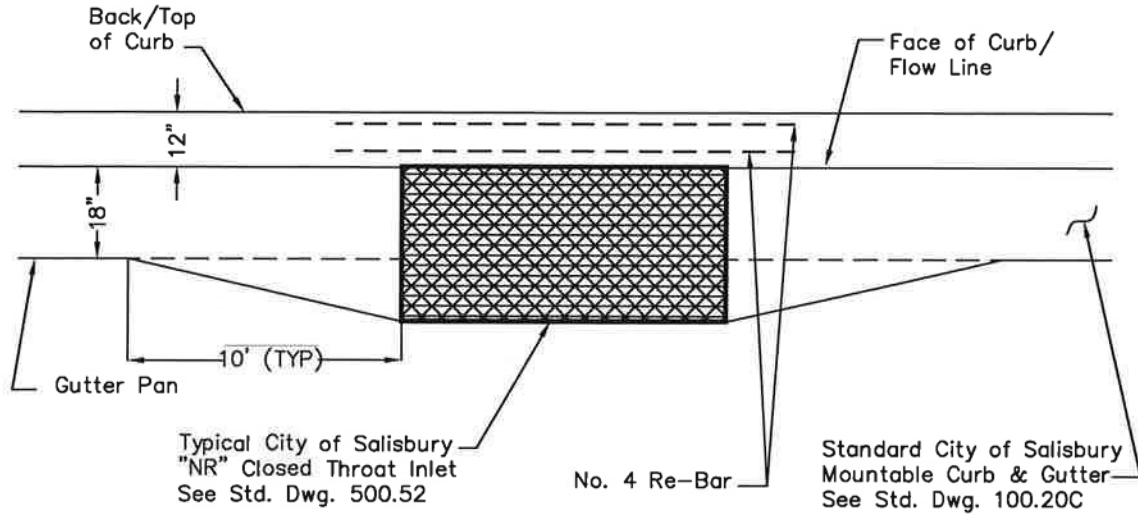
TYPICAL MOUNTABLE  
CURB INLET DETAIL  
IN LOW POINT OF STREET

DATE 8/18/77

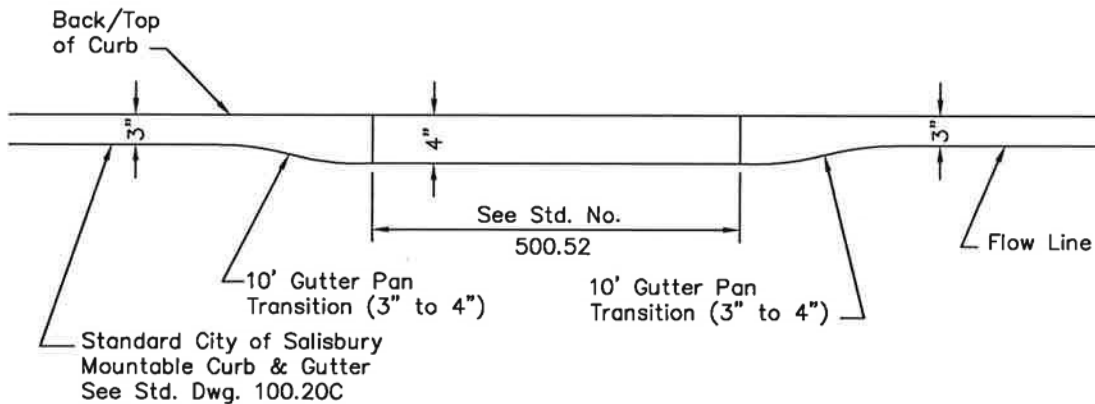
SCALE NONE

DWG. NO. STD10030

STD. NO. 100.30



**PLAN VIEW**



**FRONT VIEW**

**CONCRETE WORKMANSHIP**

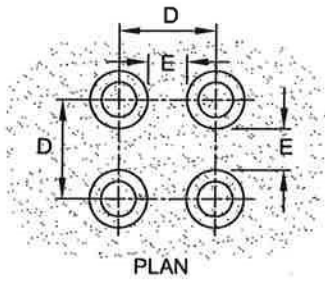
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS—CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Black*  
CITY ENGINEER

TYPICAL MOUNTABLE  
CURB DETAIL USING "NR"  
CLOSED-THROAT INLET

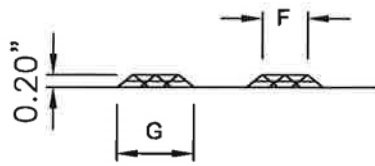
DATE 7/12/90  
SCALE NONE  
DWG. NO. STD10035  
STD. NO. 100.35



PLAN

**MAT DETAILS**

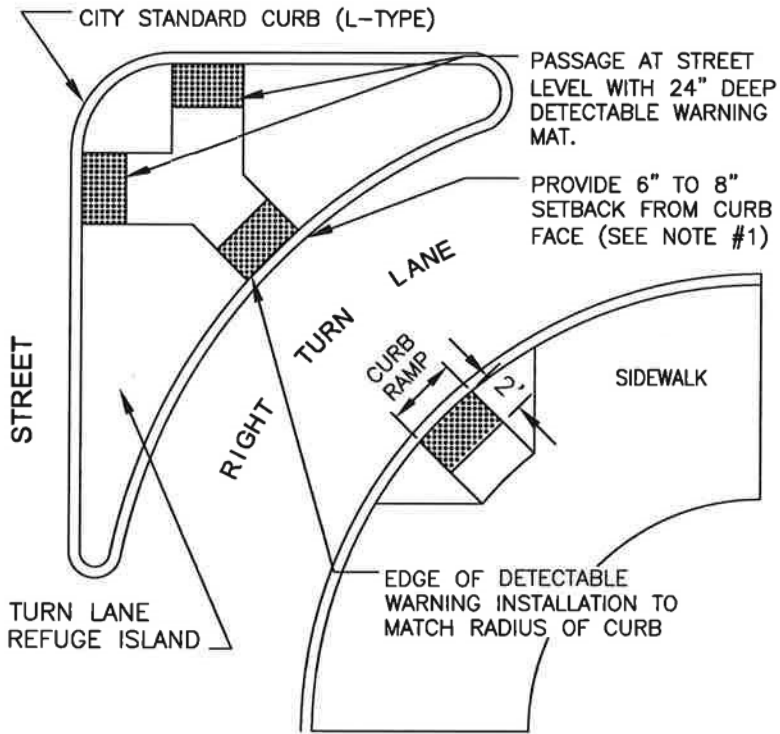
SEE PLACEMENT GUIDELINES BELOW



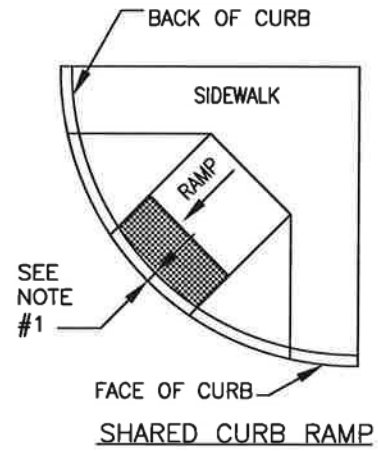
ELEVATION

	MIN.	MAX.
D	1.60"	2.40"
E	0.65"	1.50"
F	0.45"	0.60"
G	0.90"	1.20"

**PLACEMENT GUIDELINES**

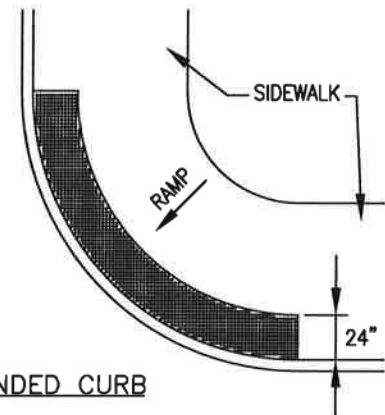


REFUGE ISLAND



SEE NOTE #1

SHARED CURB RAMP



BLENDED CURB

**NOTES**

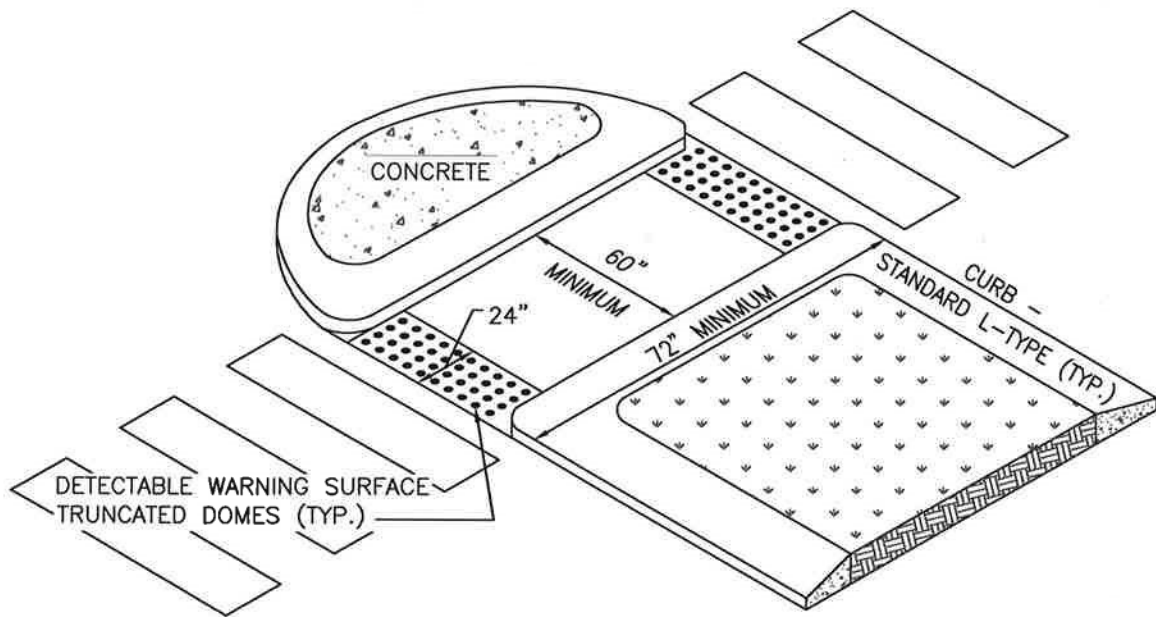
1. THE DETECTABLE WARNING SURFACE SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 TO 8 INCHES FROM THE FACE OF CURB.
2. FOR SKEWED APPLICATIONS DETECTABLE WARNING SHALL BE PLACED SUCH THAT THE DOMES CLOSEST TO THE BACK OF CURB ARE NO LESS THAN 0.5" AND NO MORE THAN 3.0" FROM THE BACK OF CURB. TRUNCATED DOME SURFACES SHALL BE FABRICATED TO PROVIDE FULL DOMES ONLY.
3. DETECTABLE WARNING SURFACE SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 611 OF THE SPECIFICATIONS.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Pollack*  
CITY ENGINEER

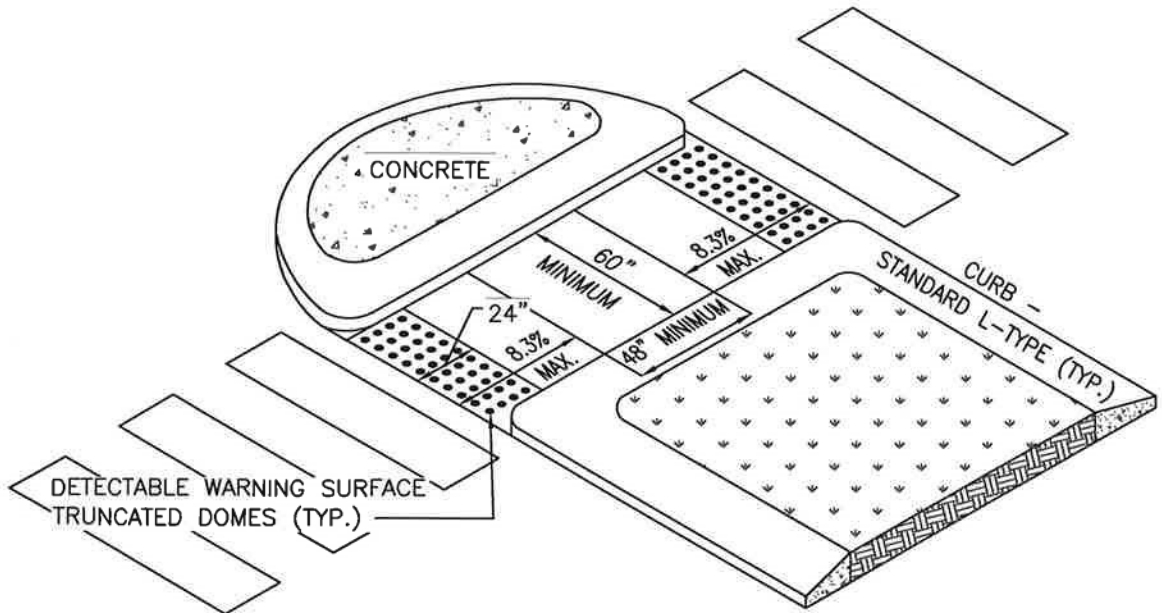
**DETECTABLE WARNING  
GUIDELINES & DETAILS**

DATE 05/27/04  
SCALE NONE  
DWG. NO. STD10037  
STD. NO. 100.37



CUT-THROUGH MEDIAN

LESS THAN 6' WIDE DOES NOT  
REQUIRE TRUNCATED DOMES



RAMPED MEDIAN

IN EXCESS OF 16' WIDE

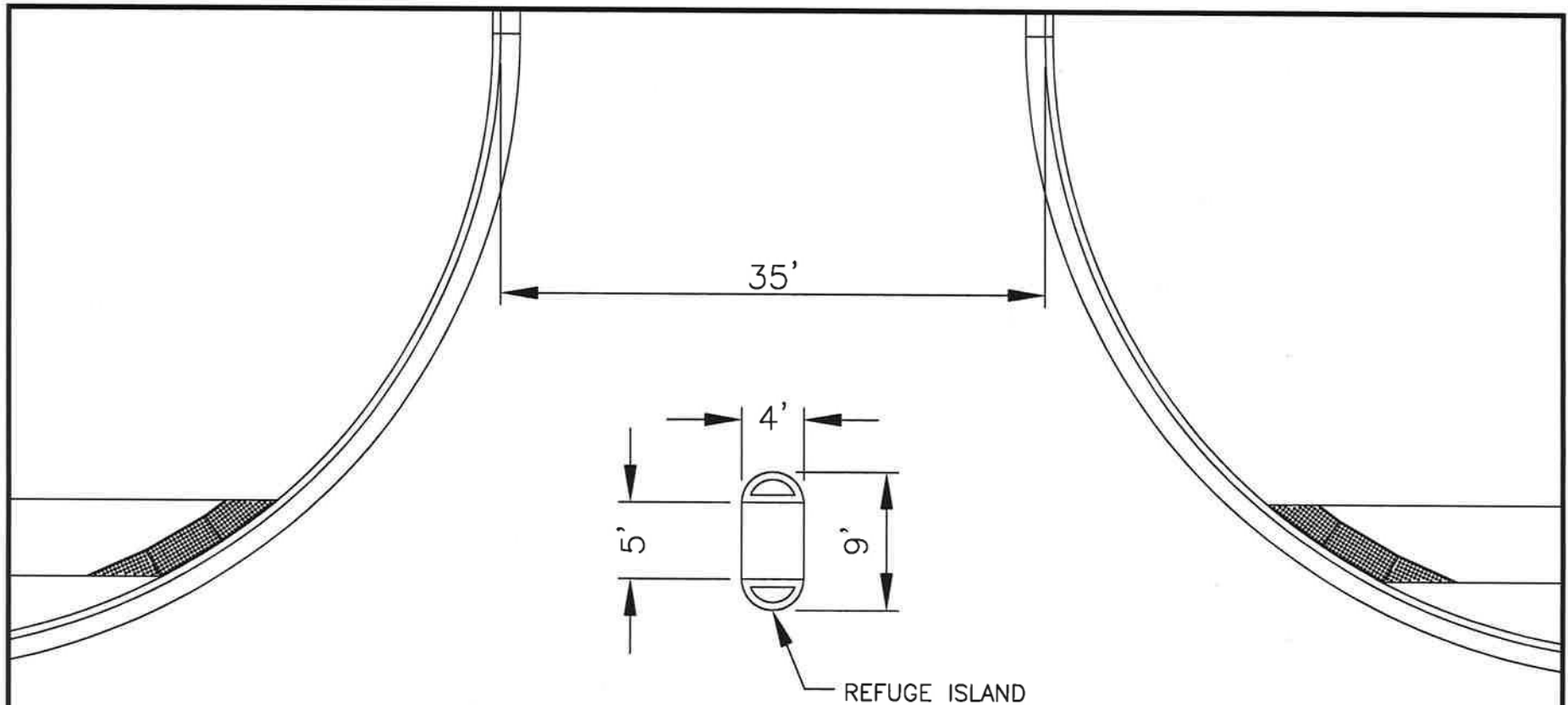
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

PEDESTRIAN REFUGE  
ISLAND IN CITY STREETS

DATE 04/03/17  
SCALE NONE  
DWG. NO. STD10038  
STD. NO. 100.38





1. THE DISTANCES BETWEEN PEDESTRIAN SAFE AREAS SHALL BE NO GREATER THAN 35'.
2. MEASUREMENTS SHOWN ARE MINIMUMS.
3. ANY REFUGE LESS THAN 6' IN CROSSING WIDTH CROSSES AT GRADE WITH NO ADA MATTING.
4. REFUGES IN EXCESS OF 6' NEED 2 ADA MATS AND HAVE A SLIGHT RISE IN GRADE.
5. COMMERCIAL D/W REFUGES WILL USE CITY STANDARD MOUNTABLE CURB DESIGN BUT WILL ONLY RISE 1" WHILE PRODUCING A DEFINED FLOW LINE.
6. CONCRETE THICKNESS - 8" WITH WIRE REINFORCEMENT.

**CITY OF SALISBURY**  
**SALISBURY, MD**

APPROVED

*1/2/18*

DATE

*Amanda Pollack*  
 CITY ENGINEER

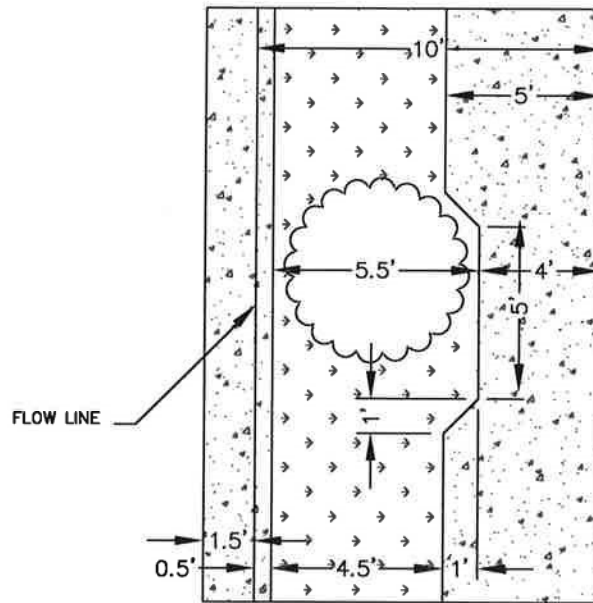
**PEDESTRIAN REFUGE ISLAND  
 IN COMMERCIAL DRIVEWAY  
 LARGER THAN 35'**

DATE 04/03/17

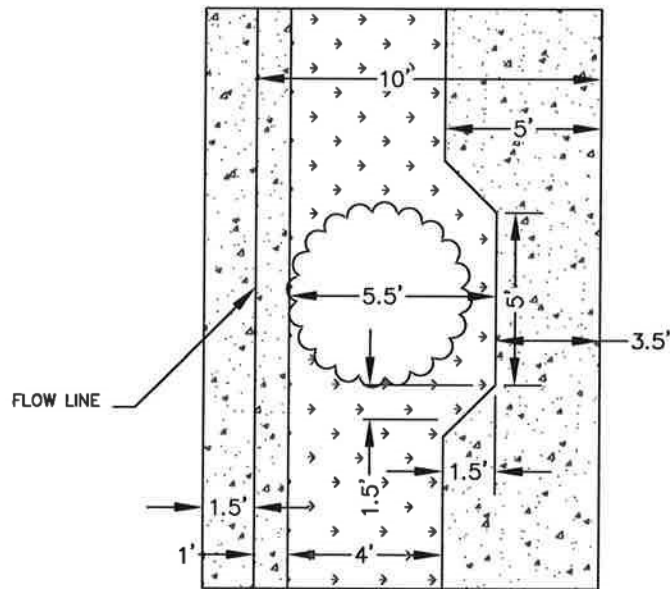
SCALE N.T.S.

DWG NO. STD10039

STD. NO 100.39



VERTICAL CURBING



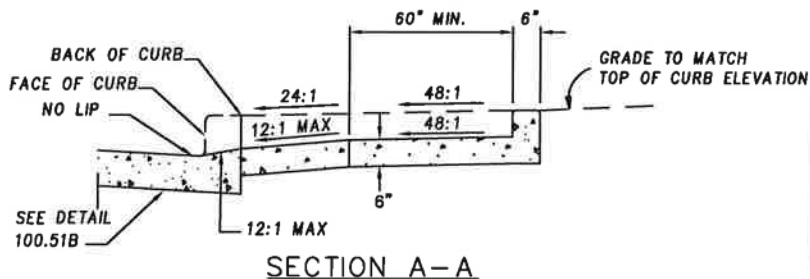
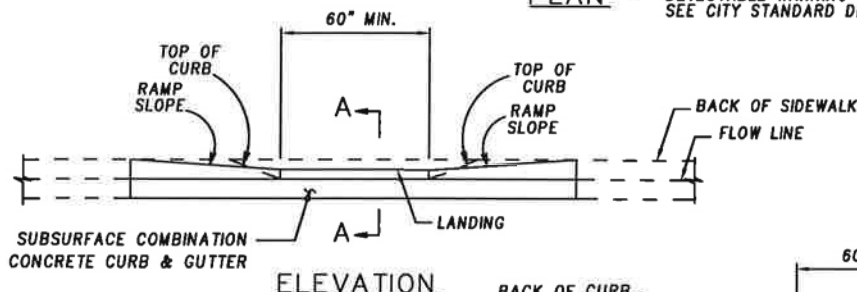
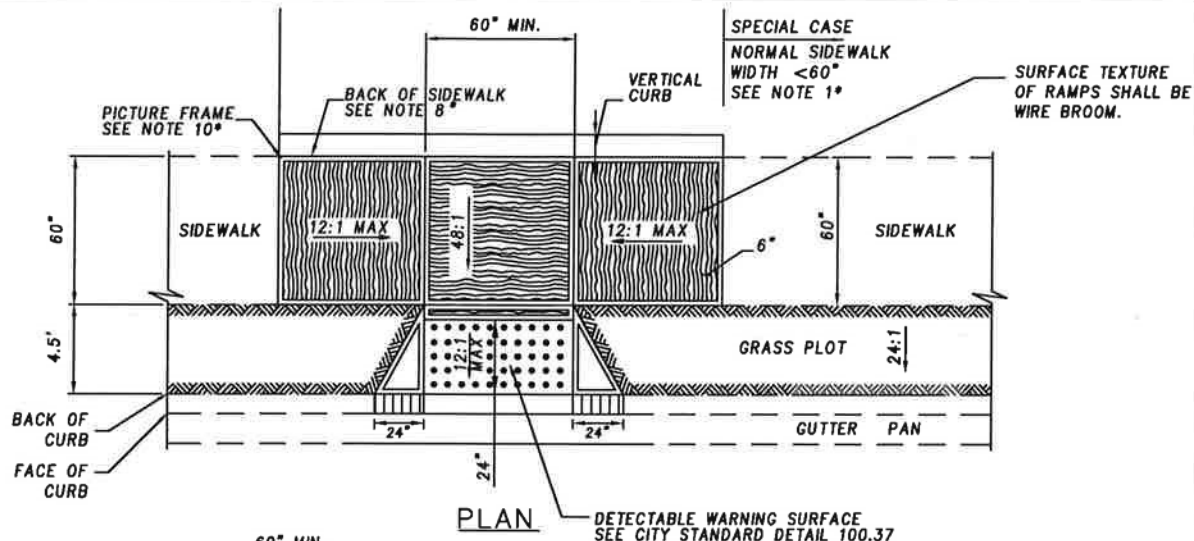
MOUNTABLE CURBING

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Pollack*  
CITY ENGINEER

LANDSCAPING STANDARD  
GRASSPLOT WITH TREE  
PLAN VIEW

DATE 2/28/06  
SCALE NONE  
DWG. NO. STD10040  
STD. NO. 100.40



**NOTES**

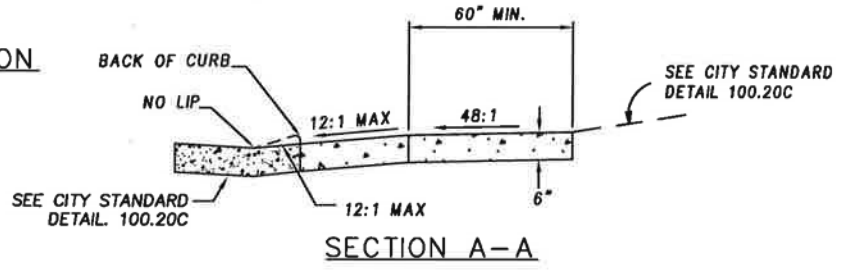
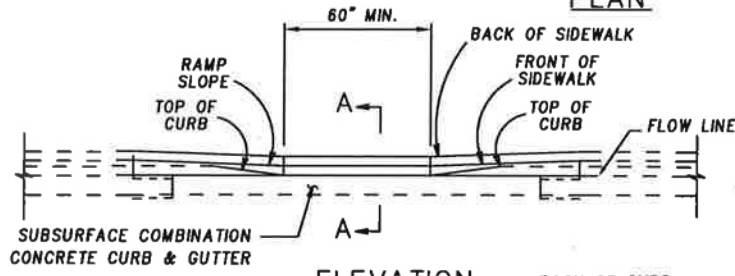
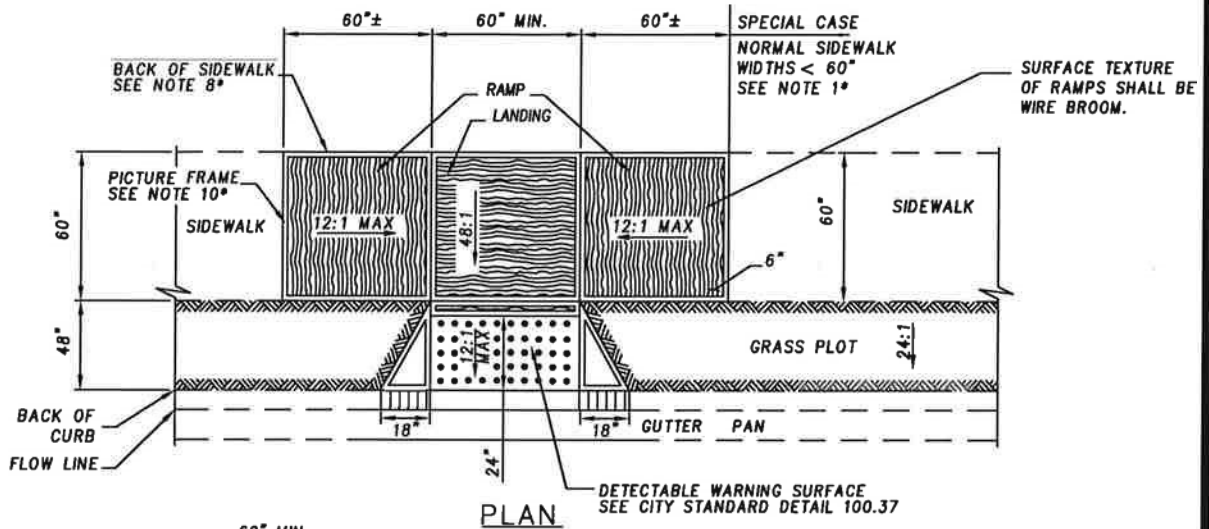
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL THE SLOPE WILL BE 48:1.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
4. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM RAMP DETAILS.
5. THE GRASS PLOT SHALL BE DESIGNED TO BE 4.5' UNLESS OTHERWISE APPROVED.
6. ALL RAMPS & LANDINGS WILL BE A MINIMUM OF 6" THICK.
7. ALL SLOPES SHALL BE MEASURED INDEPENDENT TO THE SURROUNDING TERRAIN. THEREFORE, THE LENGTH OF THE RAMPS IS SOLELY DEPENDENT ON THE HEIGHT OF THE CURB (FOR EXAMPLE, A 6 IN. CURB WITH A 12:1 RAMP SLOPE SHOULD HAVE A 6 FT. LENGTH).
8. ALL SIDEWALK RAMP DIMENSIONS SHALL BE MEASURED AT OR FROM THE BACK OF SIDEWALK.
9. HANDICAP RAMPS MUST MEET THE ADA SPECIFICATIONS CALLED OUT IN THE MARYLAND SHA ACCESSIBILITY POLICY & GUIDELINES FOR PEDESTRIAN FACILITIES ALONG STATE HIGHWAYS. FOR REFERENCE, RAMP DETAILS CAN BE FOUND IN THIS PUBLICATION.
10. ALL SIDEWALK, RAMPS AND LANDINGS WILL BE PICTURE FRAMED 1½" TO 2".
11. THIS DETAIL IS TO BE USED WHERE AT LEAST 7'-0" EXISTS BETWEEN THE BACK OF CURB AND THE BACK OF SIDEWALK. IF GRASS PLOT IS LESS THAN 24"; WIDEN THE SIDEWALK TO THE BACK OF CURB AND THEN CONSTRUCT THE RAMP UTILIZING CITY STD 100.40.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

**VERTICAL CURB &  
GRASS PLOT  
SIDEWALK RAMPS**

DATE 5/30/12  
SCALE N.T.S.  
DWG. NO. STD10041  
STD. NO. 100.41



**NOTES**

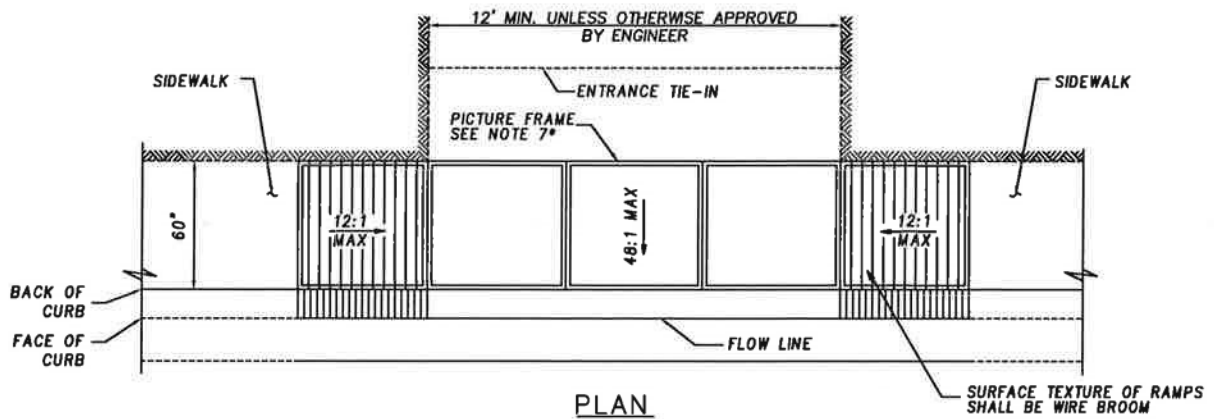
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL THE SLOPE WILL BE 48:1.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
4. SIDEWALK RAMPS TO BE SHOWN ON PLANS SYMBOLICALLY AND REFERENCED WITH THE CENTER OF THE RAMP ALIGNED TO A STATION ON THE CONSTRUCTION CENTERLINE. SEPARATE DETAILS SHALL BE SHOWN WHERE PROPOSED RAMP VARIES FROM RAMP DETAILS.
5. THE GRASS PLOT SHALL BE DESIGNED TO BE 4' UNLESS OTHERWISE APPROVED.
6. ALL RAMPS & LANDINGS WILL BE A MINIMUM OF 6" THICK.
7. SIDEWALK RAMP SHALL MEET THE 12:1 MAXIMUM SLOPE AS MEASURED AT THE BACK OF SIDEWALK.
8. HANDICAP RAMPS MUST MEET THE ADA SPECIFICATIONS CALLED OUT IN THE MARYLAND SHA ACCESSIBILITY POLICY & GUIDELINES FOR PEDESTRIAN FACILITIES ALONG STATE HIGHWAYS. FOR REFERENCE, RAMP DETAILS CAN BE FOUND IN THIS PUBLICATION.
9. ALL SIDEWALK, RAMPS AND LANDINGS WILL BE PICTURE FRAMED 1½" TO 2".
10. THIS DETAIL IS TO BE USED WHERE AT LEAST 7'-0" EXISTS BETWEEN THE BACK OF CURB AND THE BACK OF SIDEWALK.

CITY OF  
SALISBURY  
SALISBURY, MD

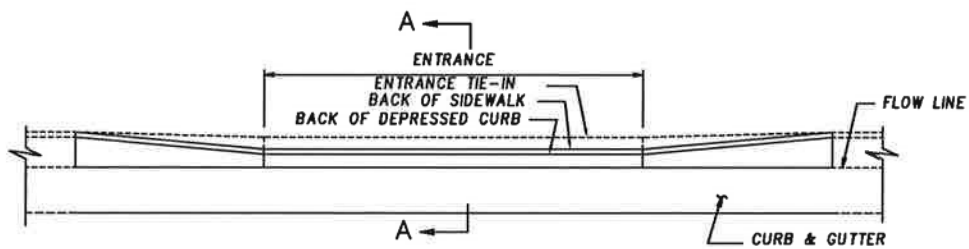
APPROVED  
*1/2/18*  
DATE  
*Amanda Pollack*  
CITY ENGINEER

**MOUNTABLE CURB  
SIDEWALK RAMPS**

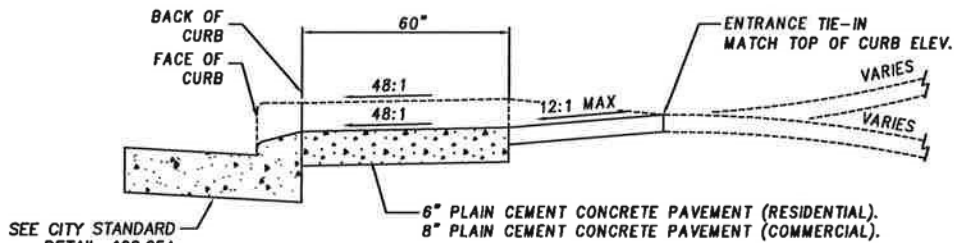
DATE 5/30/12  
SCALE N.T.S.  
DWG. NO. STD10042  
STD. NO. 100.42



PLAN



ELEVATION



SECTION A-A

NOTES

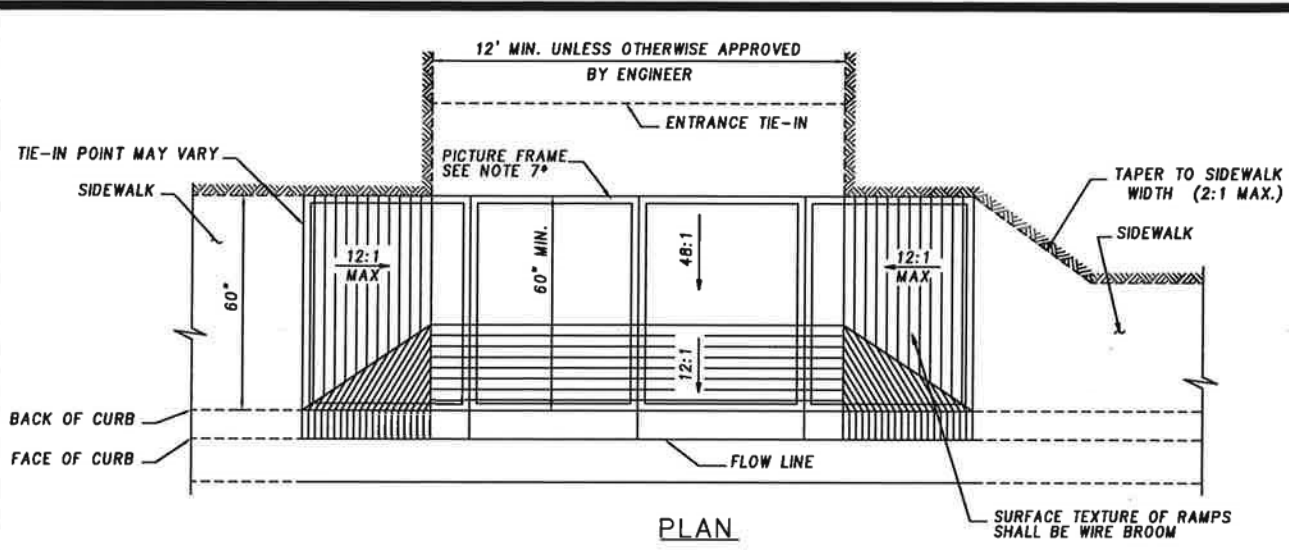
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL THE SLOPE WILL BE 48:1.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
4. ALL SLOPES SHALL BE MEASURED INDEPENDENT TO THE SURROUNDING TERRAIN. THEREFORE, THE LENGTH OF THE RAMPS IS SOLELY DEPENDENT ON THE HEIGHT OF THE CURB (FOR EXAMPLE, A 6 IN. CURB WITH A 12:1 RAMP SLOPE SHOULD HAVE A 6 FT. LENGTH).
5. ALL SIDEWALK DIMENSIONS SHALL BE MEASURED AT OR FROM THE BACK OF SIDEWALK.
6. ENTRANCES MUST MEET THE ADA SPECIFICATIONS CALLED OUT IN THE MARYLAND SHA ACCESSIBILITY POLICY & GUIDELINES FOR PEDESTRIAN FACILITIES ALONG STATE HIGHWAYS. FOR REFERENCE, RAMP DETAILS CAN BE FOUND IN THIS PUBLICATION.
7. THE SIDEWALK WILL BE PICTURE FRAMED 1½" TO 2".

CITY OF  
SALISBURY  
SALISBURY, MD

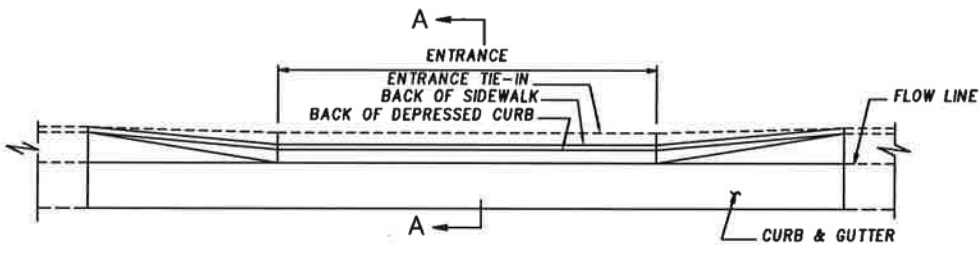
APPROVED  
1/2/18  
DATE  
Amanda Pollack  
CITY ENGINEER

CURBSIDE SIDEWALK  
STANDARD ENTRANCE  
RESIDENTIAL & COMMERCIAL  
METHOD NO. 2

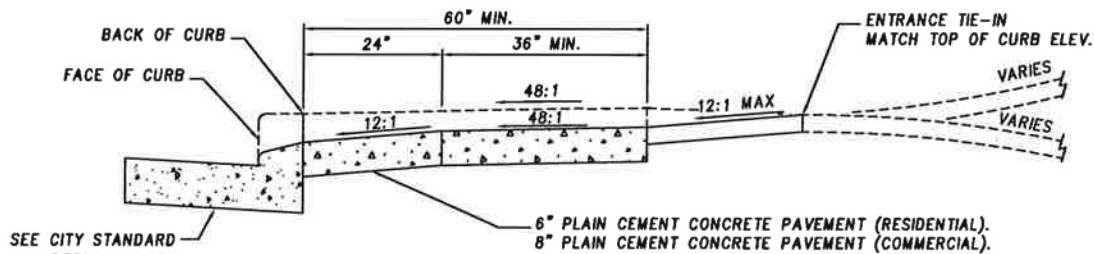
DATE 5/30/12  
SCALE N.T.S.  
DWG. NO. STD10043  
STD. NO. 100.43



PLAN



ELEVATION



SECTION A-A

NOTES

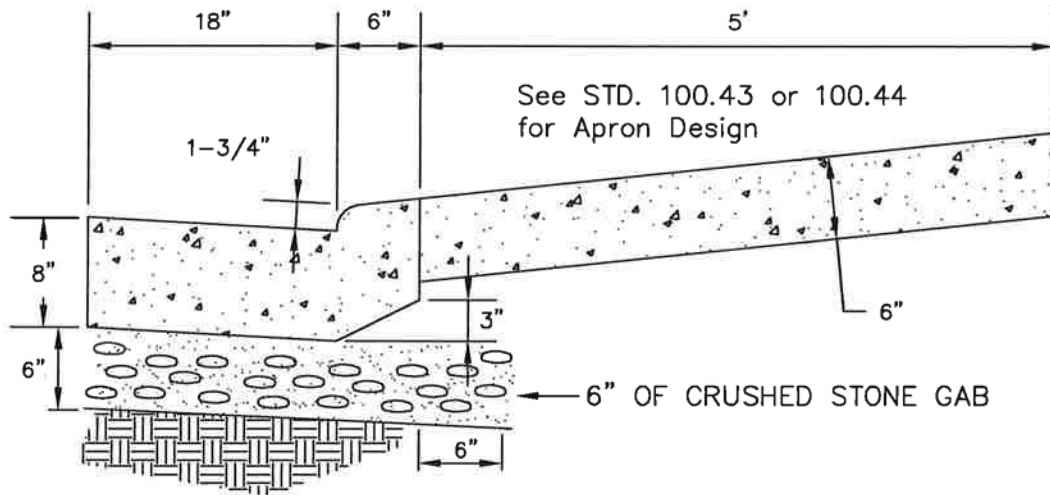
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP OR SIDEWALK SHALL EXCEED 12:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL THE SLOPE WILL BE 48:1.
3. EXPANSION JOINT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CITY STD 100.10.
4. ALL SLOPES SHALL BE MEASURED INDEPENDENT TO THE SURROUNDING TERRAIN. THEREFORE, THE LENGTH OF THE RAMPS IS SOLELY DEPENDENT ON THE HEIGHT OF THE CURB (FOR EXAMPLE, A 6 IN. CURB WITH A 12:1 RAMP SLOPE SHOULD HAVE A 6 FT. LENGTH).
5. ALL SIDEWALK DIMENSIONS SHALL BE MEASURED AT OR FROM THE BACK OF SIDEWALK.
6. ENTRANCES MUST MEET THE ADA SPECIFICATIONS CALLED OUT IN THE MARYLAND SHA ACCESSIBILITY POLICY & GUIDELINES FOR PEDESTRIAN FACILITIES ALONG STATE HIGHWAYS. FOR REFERENCE, RAMP DETAILS CAN BE FOUND IN THIS PUBLICATION.
7. THE SIDEWALK WILL BE PICTURE FRAMED 1/2" TO 2".

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
Amanda Pollack  
CITY ENGINEER

CURBSIDE SIDEWALK  
STANDARD ENTRANCE  
RESIDENTIAL & COMMERCIAL  
METHOD NO. 1

DATE 5/30/12  
SCALE N.T.S.  
DWG. NO. STD10044  
STD. NO. 100.44



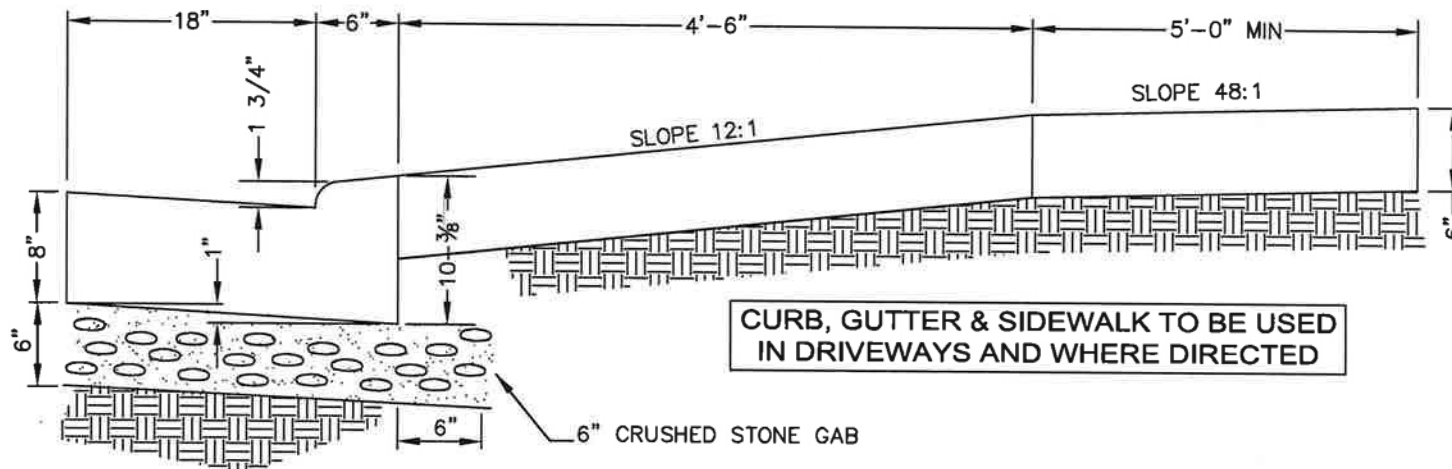
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

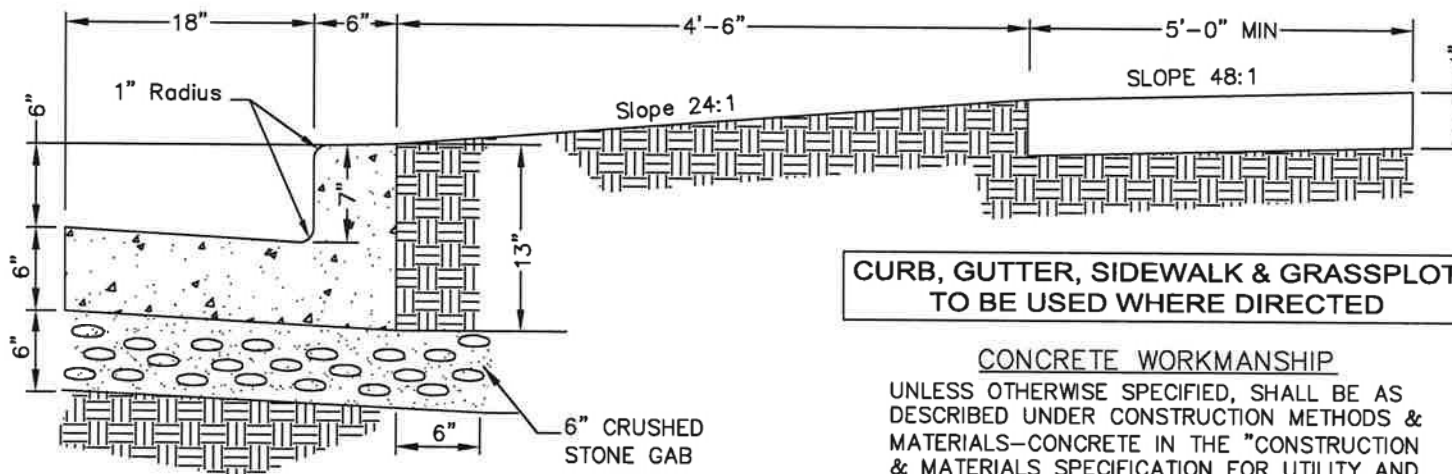
SPECIAL CURB & GUTTER  
AND SIDEWALK IN  
INDUSTRIAL DRIVEWAYS

DATE 01/01/00  
SCALE NONE  
DWG. NO. STD10050  
STD. NO. 100.50

A



B



CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS—CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF SALISBURY  
SALISBURY, MD

APPROVED

1/2/18

DATE

*Amanda Bellack*  
CITY ENGINEER

STANDARD DETAILS FOR  
CURB, GUTTER, & SIDEWALK  
WITH GRASSPLOT OR DRIVEWAY

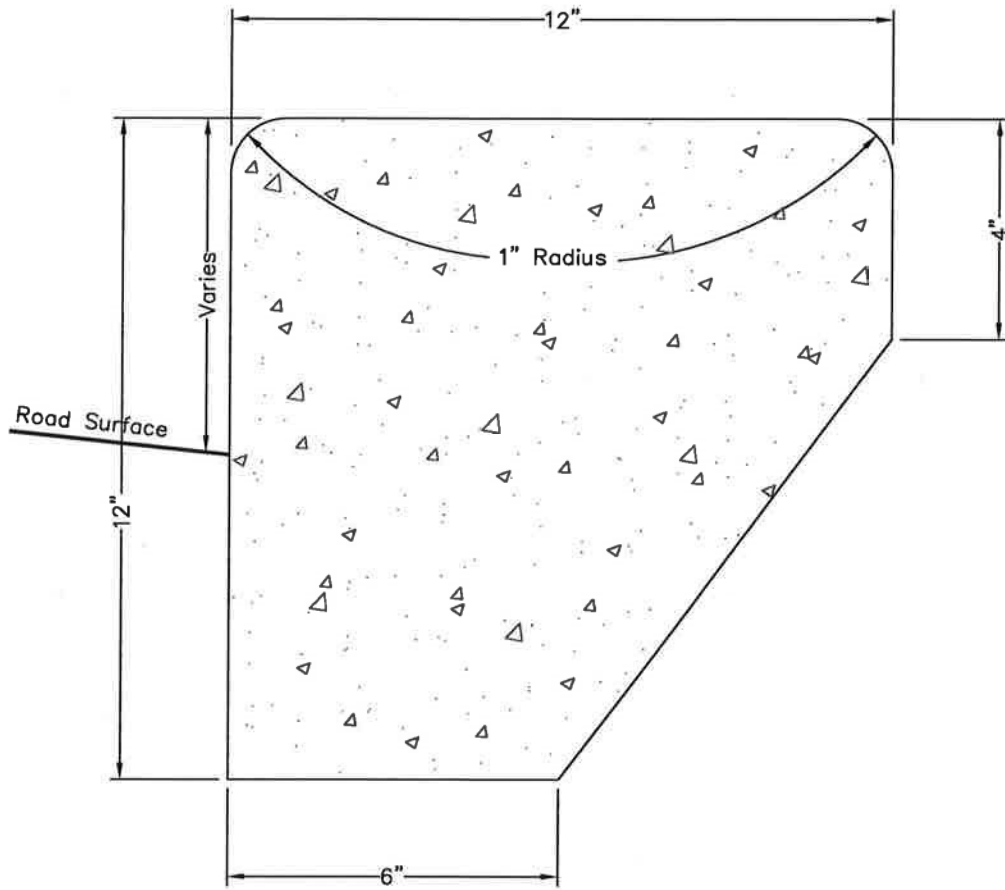
DATE 4/6/92

SCALE NONE

DWG NO. STD10051

STD. NO 100.51





CONCRETE WORKMANSHIP

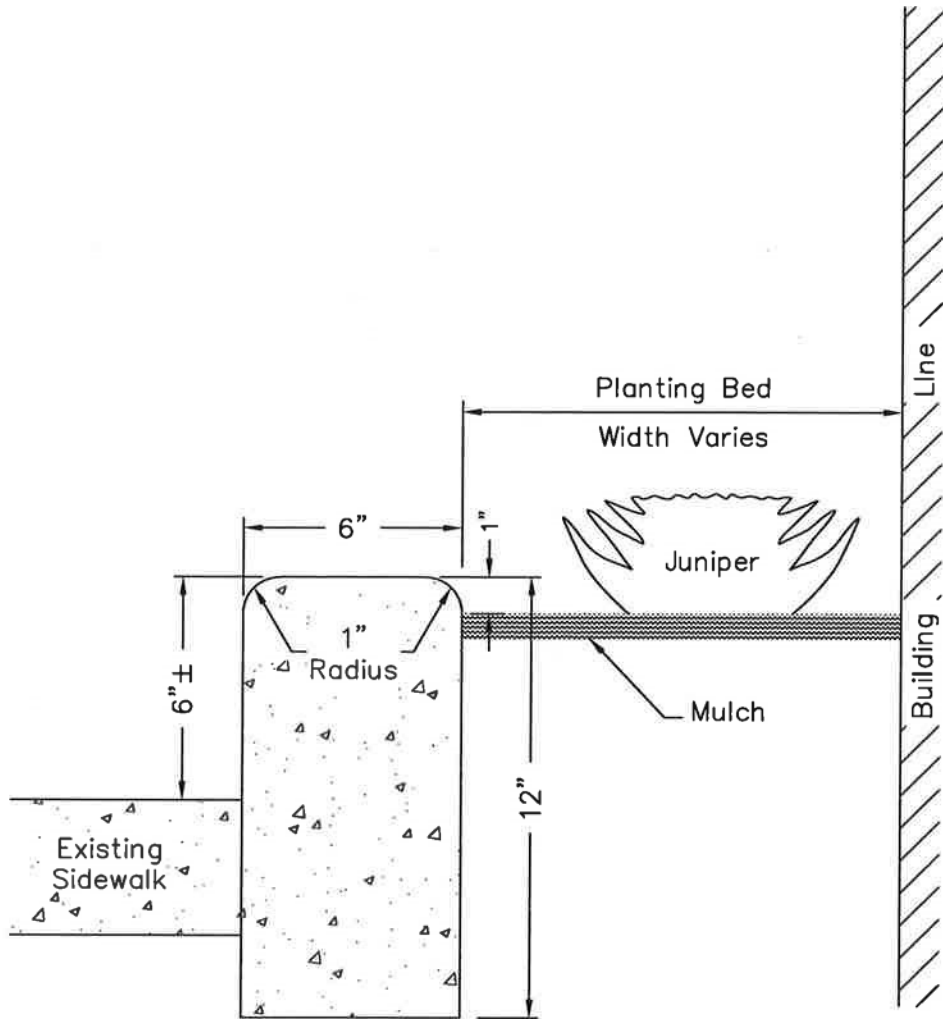
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Pollack*  
CITY ENGINEER

STANDARD DETAIL  
FOR TYPE A  
LANDSCAPING CURB

DATE	2/3/83
SCALE	NONE
DWG. NO.	STD10052
STD. NO.	100.52



CONCRETE WORKMANSHIP

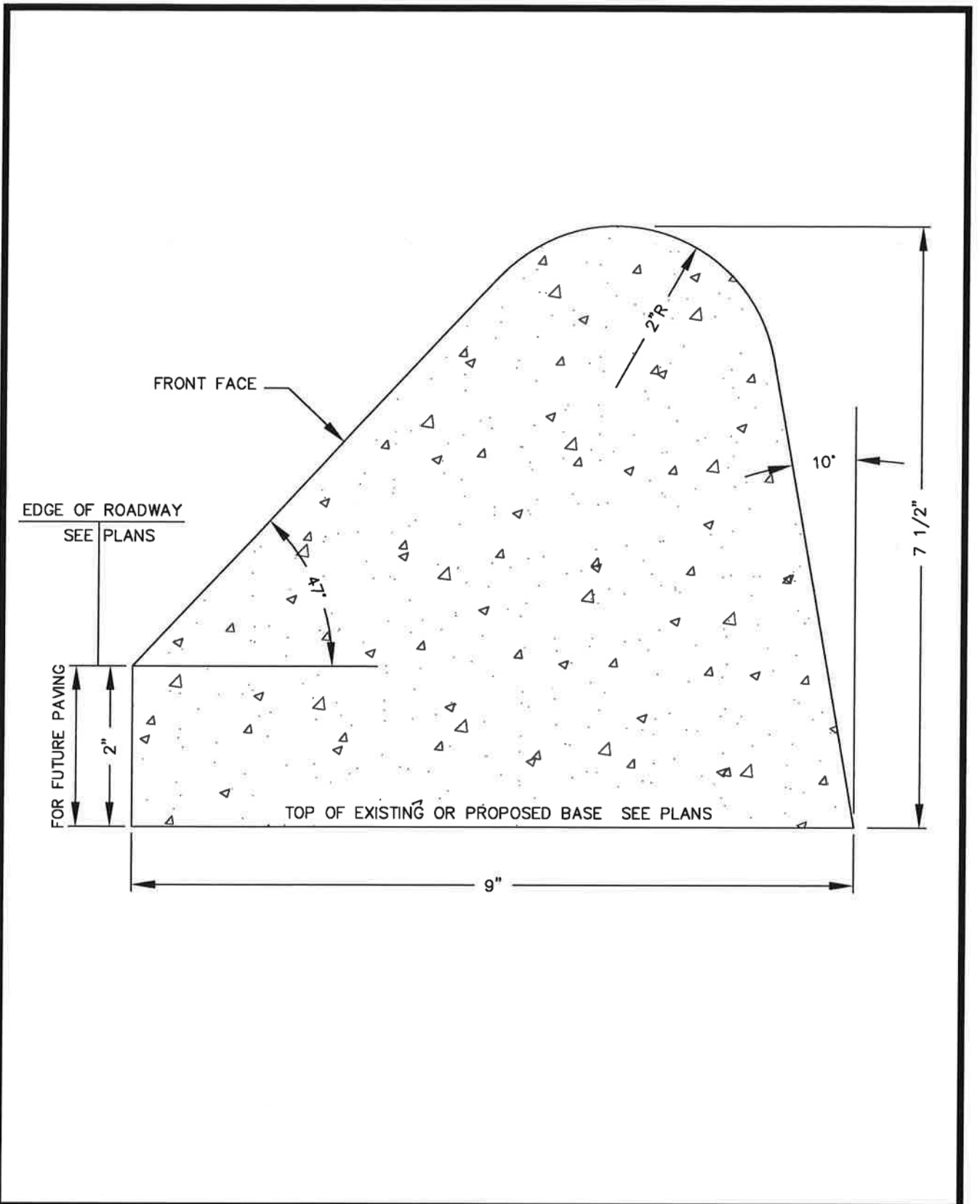
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS—CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
*Amanda Pollack* DATE  
CITY ENGINEER

STANDARD DETAIL  
FOR PLANTER CURB

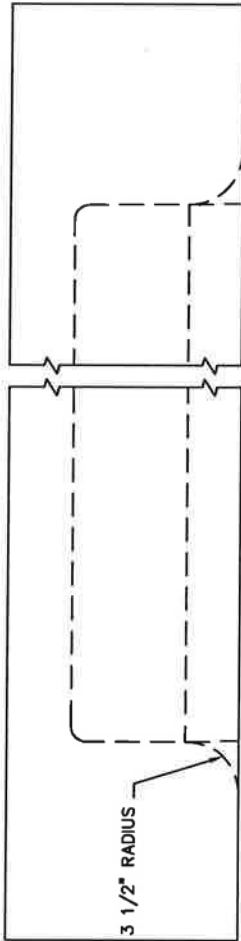
DATE	2/3/83
SCALE	NONE
DWG. NO.	STD10053
STD. NO.	100.53



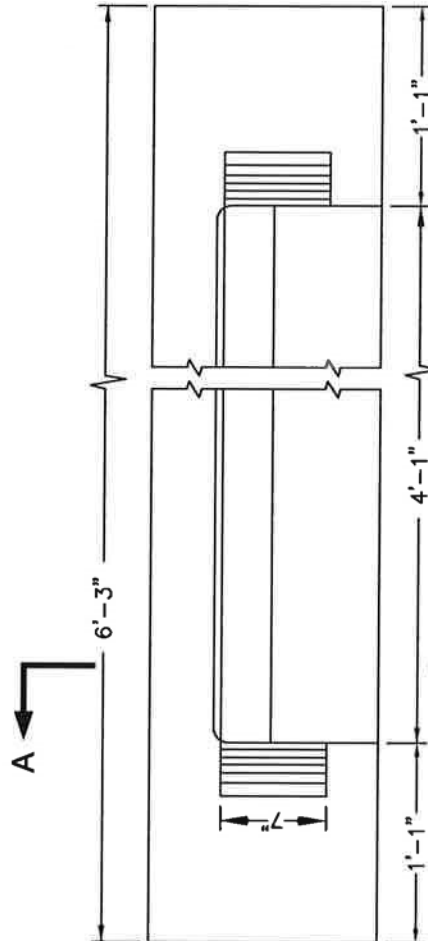
CITY OF SALISBURY SALISBURY, MD	APPROVED <i>1/2/18</i> DATE	<b>STANDARD BITUMINOUS          CONCRETE CURB</b>	DATE 3/10/87
	<i>Amanda Pollack</i> CITY ENGINEER		SCALE NONE
			DWG. NO. STD10054
			STD. NO. 100.54

CONCRETE WORKMANSHIP

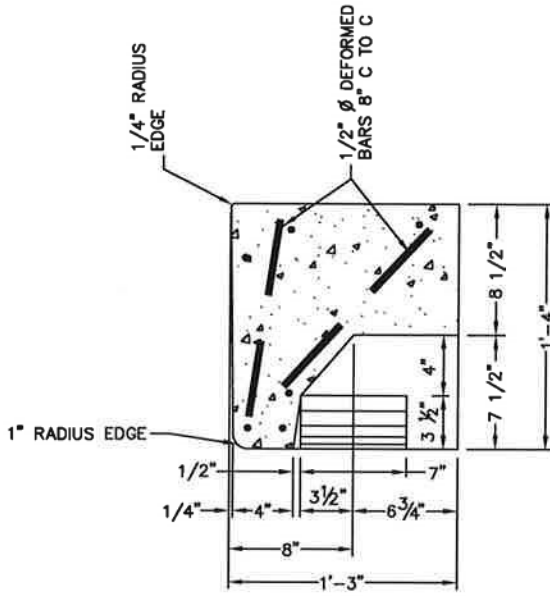
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.



PLAN



FRONT ELEVATION



SECTION A-A

CITY OF  
SALISBURY  
SALISBURY, MD

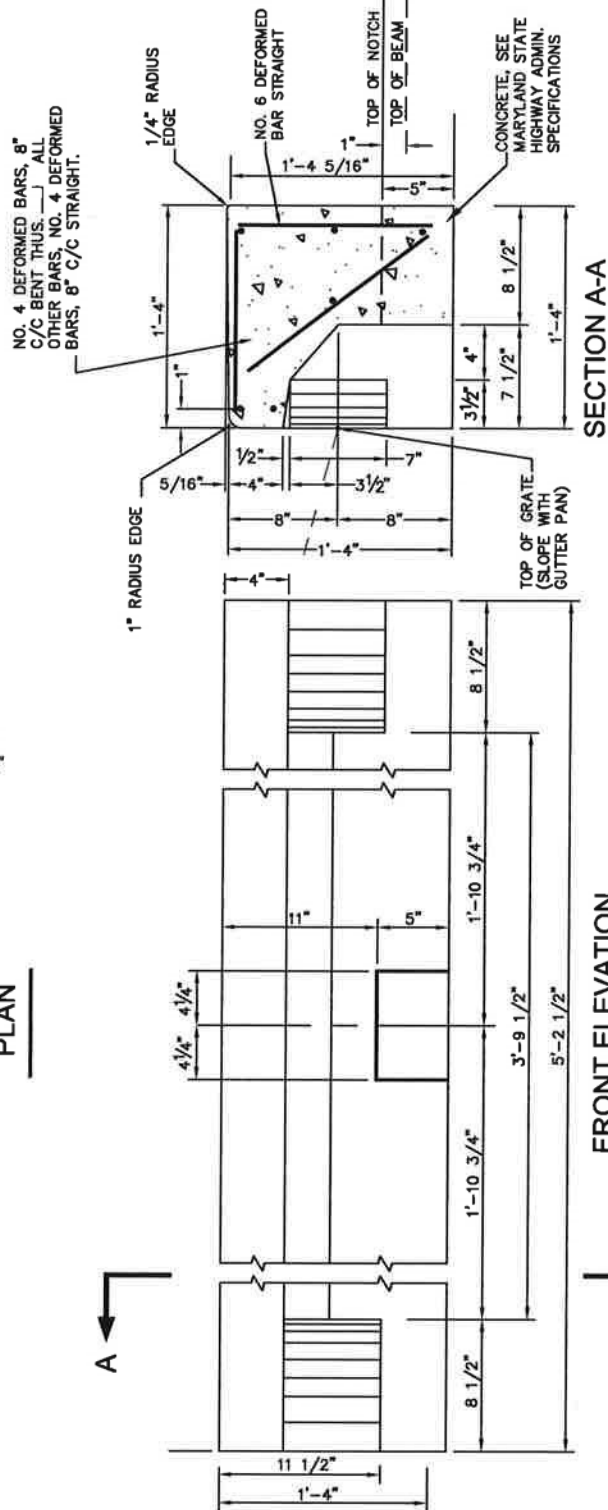
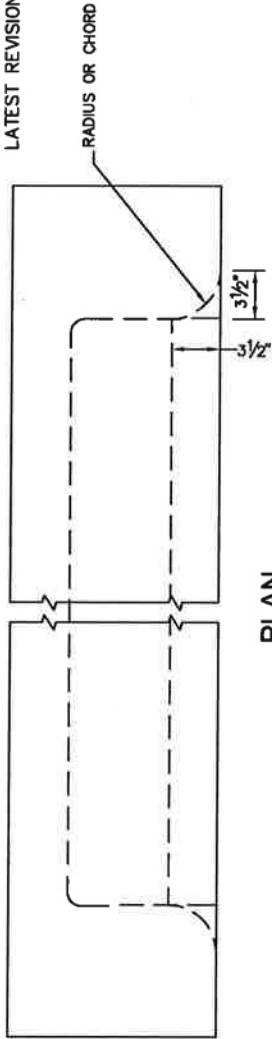
APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

SPECIAL CURB  
CLASS "E"  
COMBINATION INLET

DATE	8/29/86
SCALE	NONE
DWG. NO.	STD10055
STD. NO.	100.55

CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS--CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

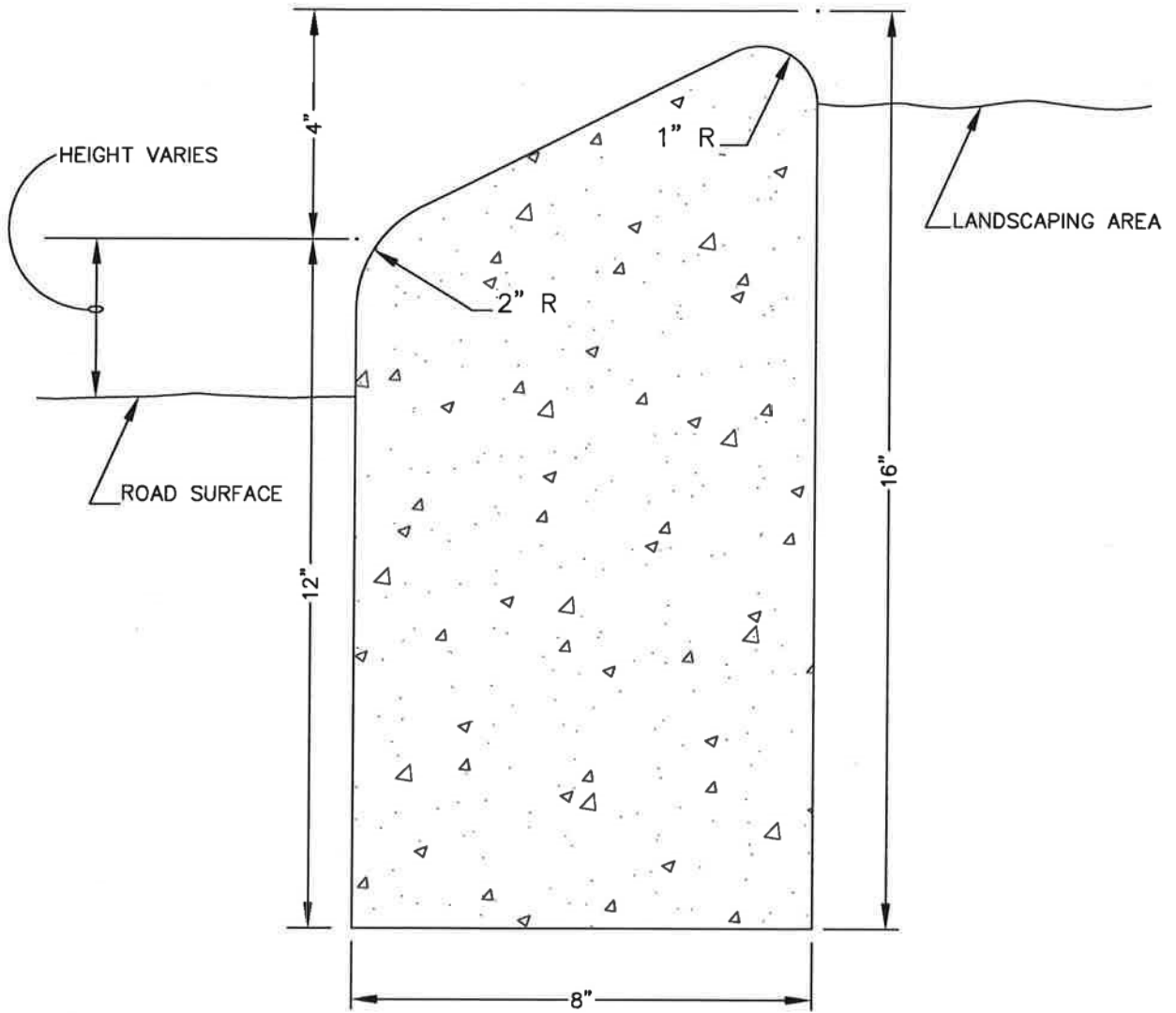


CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
Amanda Pollack  
CITY ENGINEER

SPECIAL CURB  
CLASS "NR" OPEN  
THROAT INLET

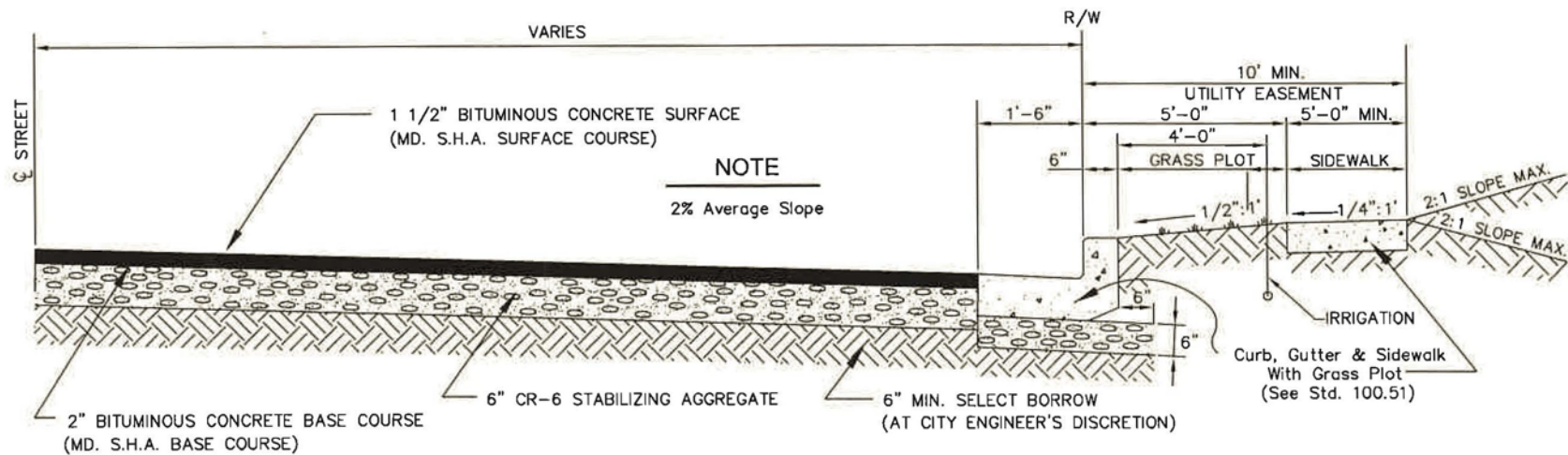
DATE 8/29/86  
SCALE NONE  
DWG. NO. STD100.56  
STD. NO. 100.56



CONCRETE WORKMANSHIP

UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.

CITY OF SALISBURY SALISBURY, MD	APPROVED <i>1/2/18</i> <i>Amanda Bellack</i>	TRAFFIC ISLAND SAFETY CURB	DATE 7/12/90
	DATE <i>1/2/18</i>		SCALE NONE
	CITY ENGINEER		DWG. NO. STD10057
			STD. NO. 100.57



## NOTES

1. WHERE BASE SOIL IS OF UNSUITABLE MATERIAL THE ENGINEER, AT HIS DISCRETION, MAY REQUIRE REMOVAL AND REPLACEMENT WITH SELECT BORROW MEETING REQUIREMENTS OF B.P.R. A-1, OR A-3 FRIABLE.
2. WHERE GROUND WATER IS ENCOUNTERED, THE ENGINEER MAY REQUIRE SUITABLE UNDERDRAIN.
3. INFORMATION SHOWN ON DRAWINGS ARE MINIMUM STANDARDS.
4. ALL STREETS SHALL BE CONSTRUCTED IN ACCORDANCE TO "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", AS PUBLISHED BY THE M.D.O.T., S.H.A., LATEST EDITION.
5. GRASS PLOT MAY BE ELIMINATED BY CITY APPROVAL ONLY. ELIMINATION REQUIRES 5'-0" WIDTH SIDEWALK PLACED AGAINST CURB.
6. IF ON-STREET PARKING IS DESIRED, STREET DESIGN SHALL BE WIDENED BY 8'-0" PER SIDE AND CURB EXTENSIONS PROVIDED.

REVISED: 05/31/21

CITY OF SALISBURY  
SALISBURY, MD

APPROVED

*12-8-22*

DATE

*Jennifer Bird*  
CITY ENGINEER

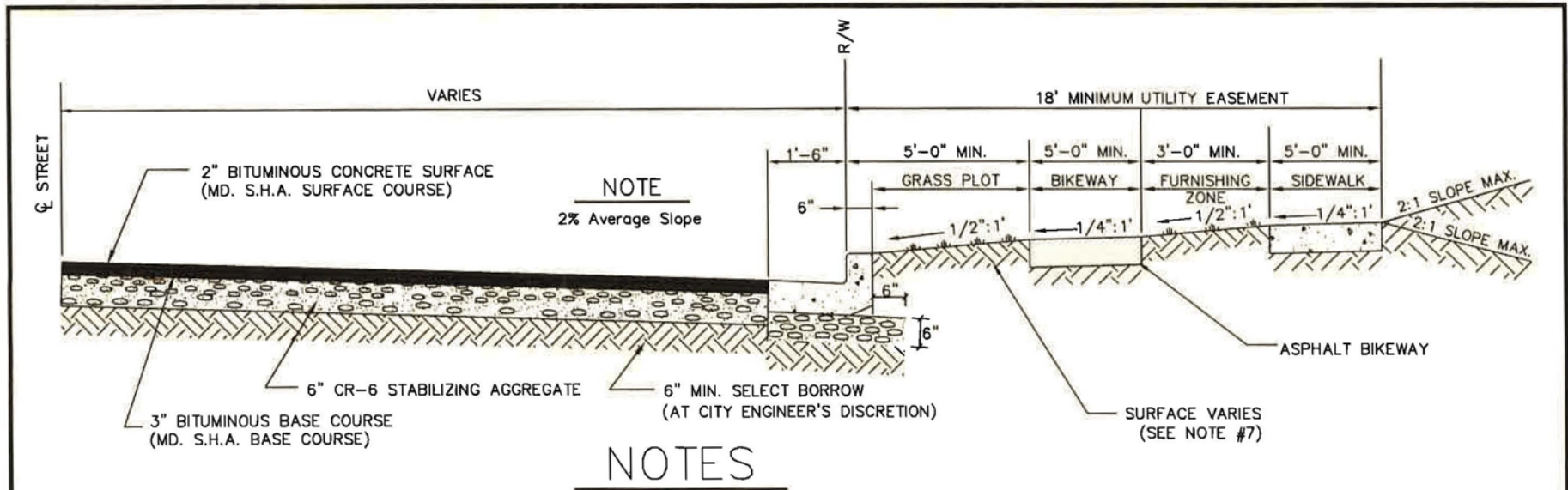
TYPICAL SECTION  
TYPICAL LOCAL STREET  
WITH STANDARD CURB & GUTTER

DATE 3/23/92

SCALE NONE

DWG NO. STD20011

STD. NO 200.11

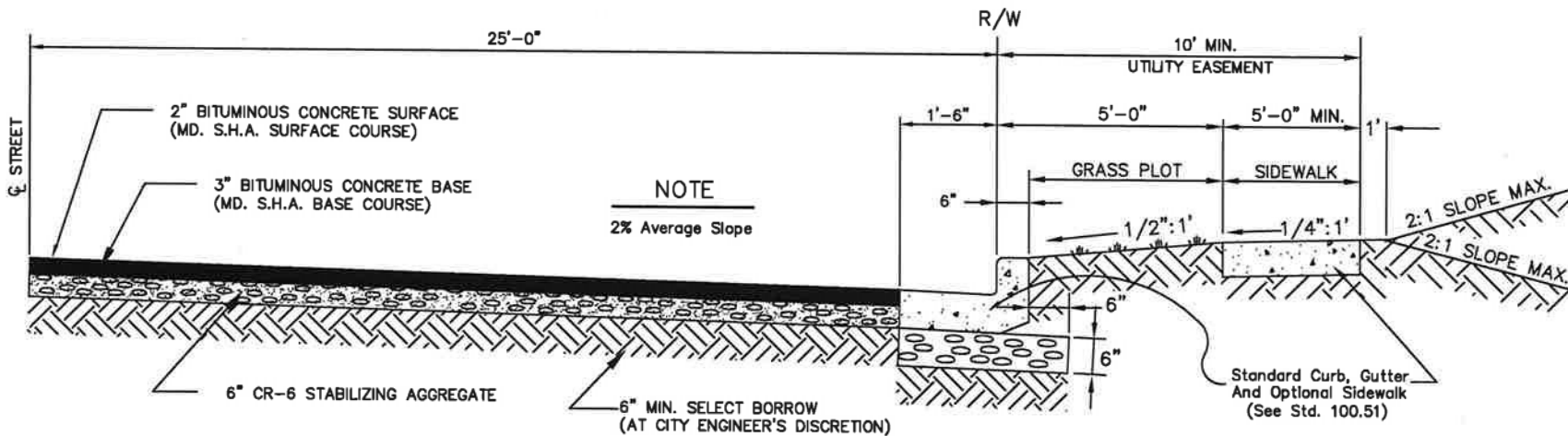


1. WHERE BASE SOIL IS OF UNSUITABLE MATERIAL THE ENGINEER, AT HIS DISCRETION, MAY REQUIRE REMOVAL AND REPLACEMENT WITH SELECT BORROW MEETING REQUIREMENTS OF B.P.R. A-1, OR A-3 FRIABLE.
2. WHERE GROUND WATER IS ENCOUNTERED, THE ENGINEER MAY REQUIRE SUITABLE UNDERDRAIN.
3. INFORMATION SHOWN ON DRAWINGS ARE MINIMUM STANDARDS.
4. ALL STREETS SHALL BE CONSTRUCTED IN ACCORDANCE TO "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", AS PUBLISHED BY THE M.D.O.T., S.H.A., LATEST EDITION.
5. GRASS PLOT MAY BE ELIMINATED BY CITY APPROVAL ONLY. ELIMINATION REQUIRES 5'-0" WIDTH SIDEWALK PLACED AGAINST CURB.
6. IF ON-STREET PARKING IS DESIRED, STREET DESIGN SHALL BE WIDENED BY 8'-0" PER SIDE AND CURB EXTENSIONS PROVIDED.
7. SURFACE OF GRASS PLOT MAY VARY BY CONTENT. MORE URBANIZED AREAS MAY REQUIRE BRICK OR OTHER SURFACES.
8. CITY MAY REQUIRE TREES OR OTHER LANDSCAPING TO BE PLACED IN GRASS PLOT OR FURNISHING ZONE BASED ON CONTEXT.
9. GRASS PLOT MAY BE RAISED FOR PLACEMENT OF STORMWATER BEST MANAGEMENT PRACTICES (BMPs).
10. DEFAULT MATERIAL FOR PROTECTED BIKEWAY IS PAVEMENT (BITUMINOUS CONCRETE). OTHER MATERIALS MAY BE USED AT DISCRETION OF ENGINEER.

REV: 05-31-2021

<p>CITY OF SALISBURY</p> <p>SALISBURY, MD</p>	<p>APPROVED</p> <p style="text-align: center;"><u>12-8-22</u></p> <p style="text-align: right;">DATE</p> <p style="text-align: center;"><i>Gaith King</i></p> <p style="text-align: center;">CITY ENGINEER</p>	<p>TYPICAL SECTION</p> <p>TYPICAL MAJOR COLLECTOR STREET</p> <p>WITH STANDARD CURB &amp; GUTTER</p>	<p>DATE 3/23/92</p> <hr/> <p>SCALE NONE</p> <hr/> <p>DWG NO. STD20041</p> <hr/> <p>STD. NO 200.41</p>
---	--	---	---





## NOTES

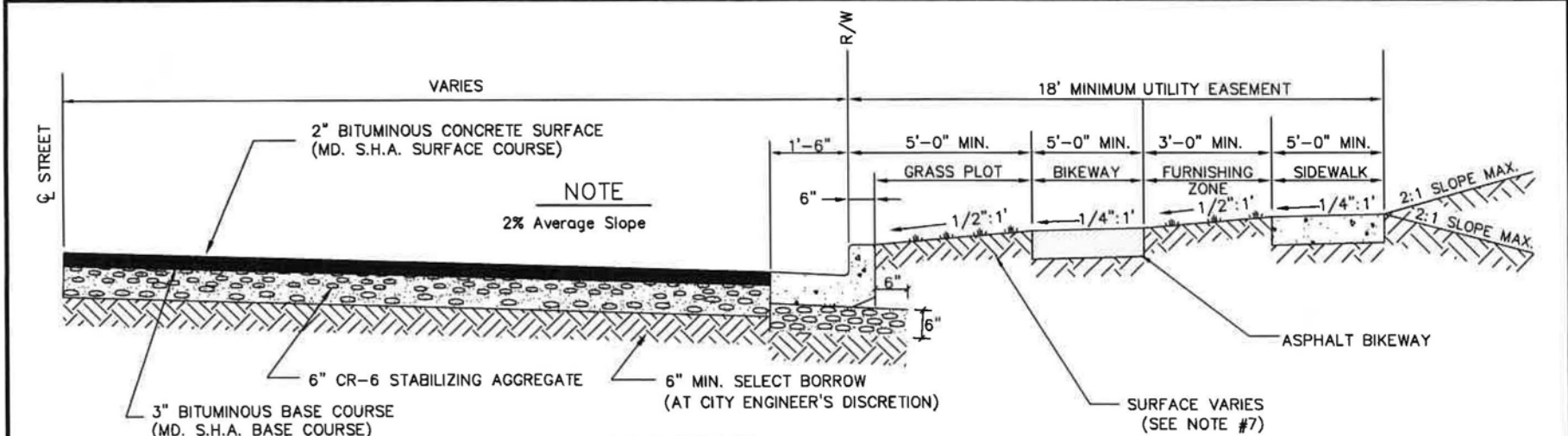
1. WHERE BASE SOIL IS OF UNSUITABLE MATERIAL THE ENGINEER, AT HIS DISCRETION, MAY REQUIRE REMOVAL AND REPLACEMENT WITH SELECT BORROW MEETING REQUIREMENTS OF B.P.R. A-1, OR A-3 FRIABLE.
2. WHERE GROUND WATER IS ENCOUNTERED, THE ENGINEER MAY REQUIRE SUITABLE UNDERDRAIN.
3. INFORMATION SHOWN ON DRAWINGS ARE MINIMUM STANDARDS.
4. ALL STREETS SHALL BE CONSTRUCTED IN ACCORDANCE TO "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", AS PUBLISHED BY THE M.D.O.T., S.H.A., LATEST EDITION.
5. GRASS PLOT MAY BE ELIMINATED BY CITY APPROVAL ONLY.

CITY OF SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
Amanda Pollack  
CITY ENGINEER

**TYPICAL SECTION**  
(INDUSTRIAL/COMMERCIAL)  
50' MAJOR COLLECTOR STREET  
WITH STANDARD CURB & GUTTER

DATE	3/23/92
SCALE	NONE
DWG NO.	STD20051
STD. NO	200.51



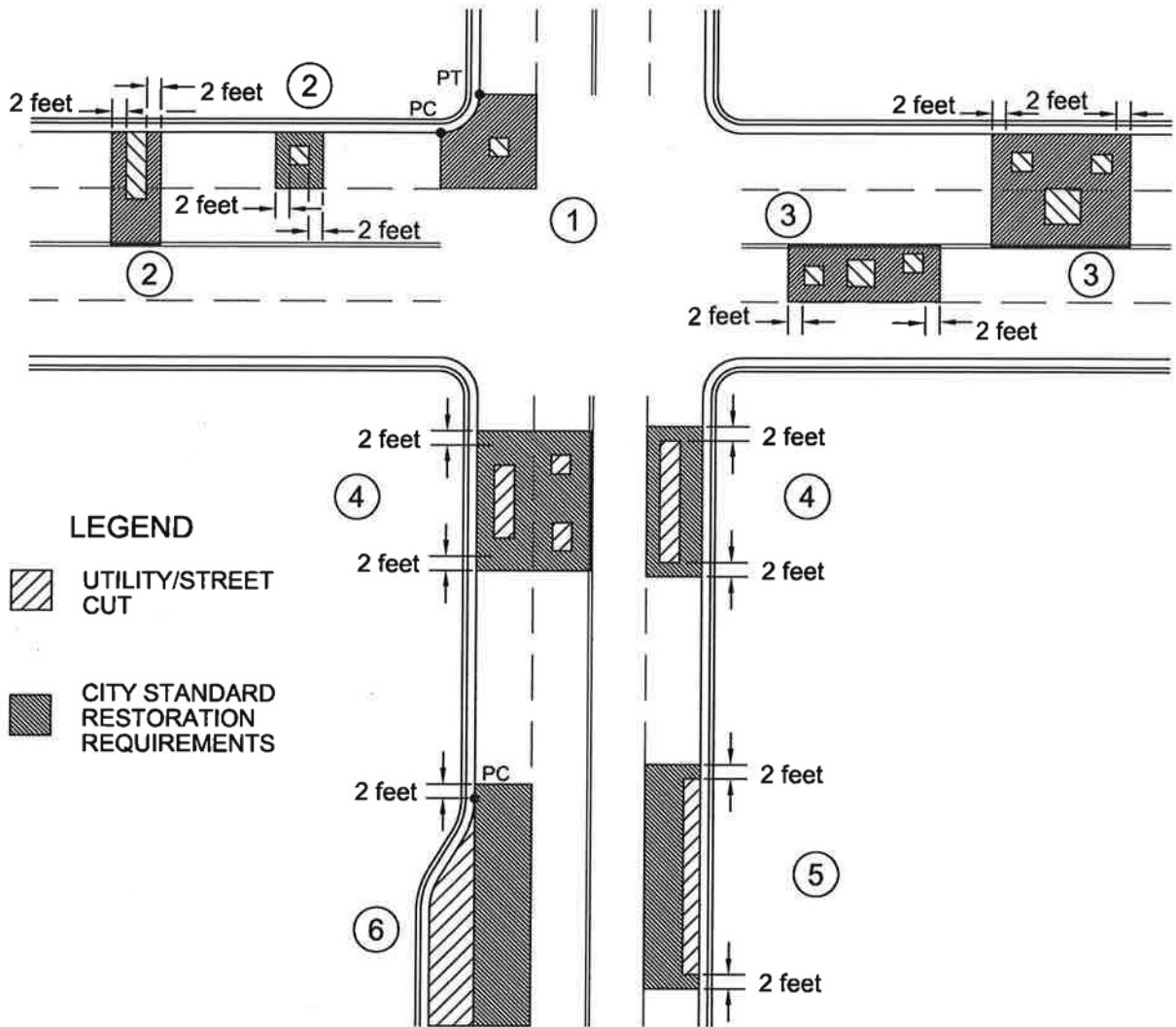
NOTES

1. WHERE BASE SOIL IS OF UNSUITABLE MATERIAL THE ENGINEER, AT HIS DISCRETION, MAY REQUIRE REMOVAL AND REPLACEMENT WITH SELECT BORROW MEETING REQUIREMENTS OF B.P.R. A-1, OR A-3 FRIABLE.
2. WHERE GROUND WATER IS ENCOUNTERED, THE ENGINEER MAY REQUIRE SUITABLE UNDERDRAIN.
3. INFORMATION SHOWN ON DRAWINGS ARE MINIMUM STANDARDS.
4. ALL STREETS SHALL BE CONSTRUCTED IN ACCORDANCE TO "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS", AS PUBLISHED BY THE M.D.O.T., S.H.A., LATEST EDITION.
5. GRASS PLOT MAY BE ELIMINATED BY CITY APPROVAL ONLY. ELIMINATION REQUIRES 5'-0" WIDTH SIDEWALK PLACED AGAINST CURB.
6. IF ON-STREET PARKING IS DESIRED, STREET DESIGN SHALL BE WIDENED BY 8'-0" PER SIDE AND CURB EXTENSIONS PROVIDED.
7. SURFACE OF GRASS PLOT MAY VARY BY CONTENT. MORE URBANIZED AREAS MAY REQUIRE BRICK OR OTHER SURFACES.
8. CITY MAY REQUIRE TREES OR OTHER LANDSCAPING TO BE PLACED IN GRASS PLOT OR FURNISHING ZONE BASED ON CONTEXT.
9. GRASS PLOT MAY BE RAISED FOR PLACEMENT OF STORMWATER BEST MANAGEMENT PRACTICES (BMPs).
10. DEFAULT MATERIAL FOR PROTECTED BIKEWAY IS PAVEMENT (BITUMINOUS CONCRETE). OTHER MATERIALS MAY BE USED AT DISCRETION OF ENGINEER.

REV: 05-31-2021

<p>CITY OF SALISBURY</p> <p>SALISBURY, MD</p>	<p>APPROVED</p> <p><u>12-8-22</u></p> <p>DATE</p>	<p>TYPICAL SECTION</p> <p>TYPICAL ARTERIAL STREET</p> <p>WITH STANDARD CURB &amp; GUTTER</p>	<p>DATE</p> <p>3/23/92</p>
	<p><i>Justin Hind</i></p> <p>CITY ENGINEER</p>		<p>SCALE</p> <p>NONE</p>
			<p>DWG NO.</p> <p>STD20061</p>
			<p>STD. NO</p> <p>200.61</p>

EXAMPLES OF RESTORATION LIMITS FOR REPAVING AND RECONSTRUCTION, IN CONJUNCTION WITH RESOLUTION 2298, WHICH SUPERCEDES RESOLUTION 1312.



THE SCENARIOS SHOWN ARE EXAMPLES OF TYPICAL APPLICATIONS OF THE CITY OF SALISBURY REPAVING AND RECONSTRUCTION POLICY, RESOLUTION 2298, AND MAY BE MODIFIED AT THE DISCRETION OF THE CITY.

- ① 4.a - RESTORATION OF ROADWAY AT AN INTERSECTION.
- ② 5.a.1 - RESTORATION OF ROADWAY WHEN UTILITY CUTS ARE TRANSVERSE TO THE ROADWAY CENTERLINE.
- ③ 5.a.2 - RESTORATION OF ROADWAY WHEN TWO OR MORE UTILITY CUTS ARE TRANSVERSE TO THE ROADWAY CENTERLINE TO INCLUDE TEST PITTING AND SOIL BORING.
- ④ 5.b.1 - RESTORATION OF ROADWAY WHEN ONE OR MORE UTILITY CUTS ARE PARALLEL TO THE ROADWAY CENTERLINE TO INCLUDE TEST PITTING AND SOIL BORING.
- ⑤ 5.c.1 - RESTORATION OF ROADWAY WHERE CURB AND GUTTER IS CONSTRUCTED OR RECONSTRUCTED.
- ⑥ 6 - RESTORATION OF ROADWAY AT ROADWAY WIDENING.

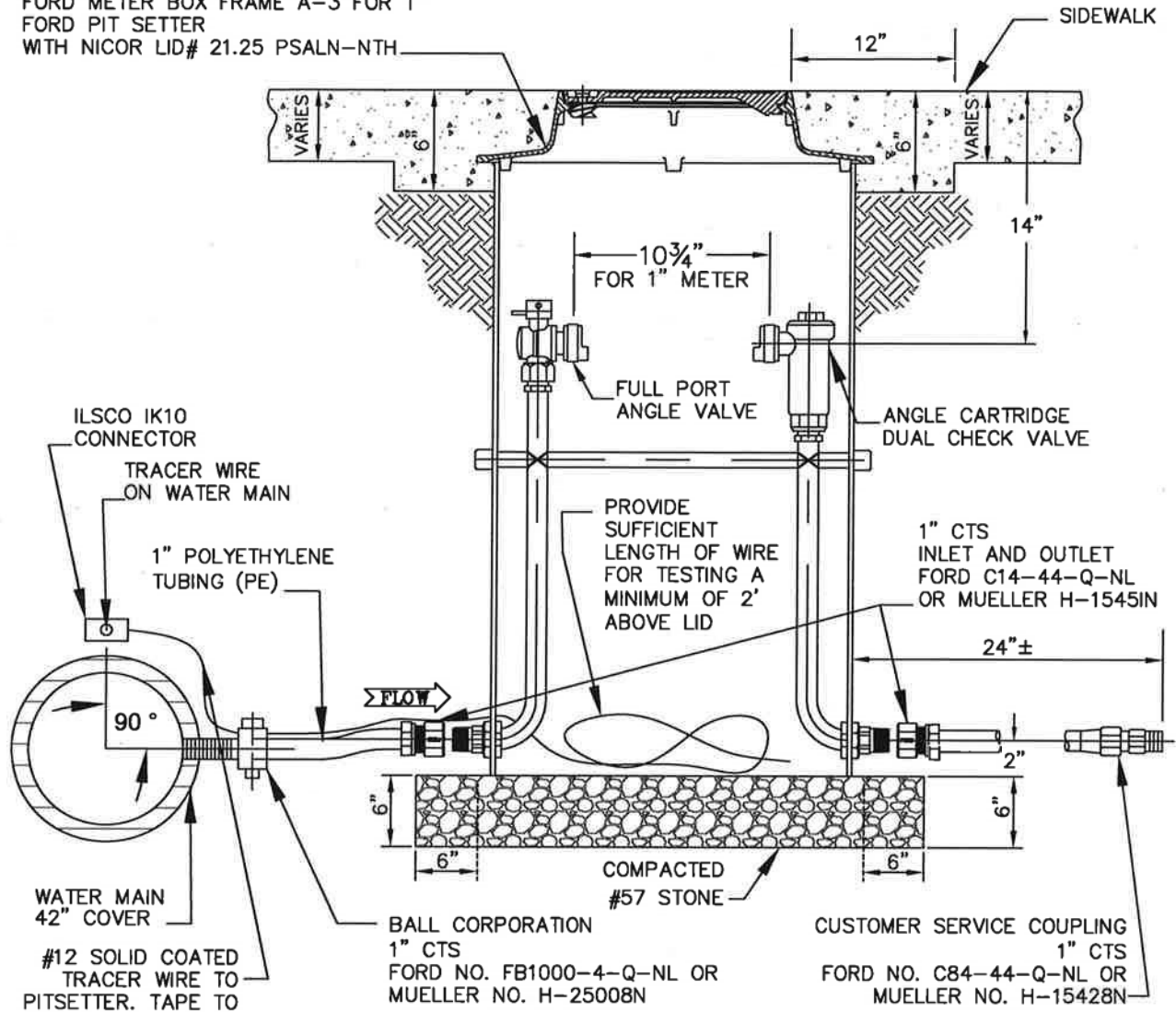
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Pollack*  
CITY ENGINEER

RESTORATION LIMITS  
FOR  
ASPHALT PAVEMENT

DATE	9/04/13
SCALE	NONE
DWG. NO.	STD20072
STD. NO.	200.72

SINGLE LID  
 FORD METER BOX FRAME A-3 FOR 1"  
 FORD PIT SETTER  
 WITH NICOR LID# 21.25 PSALN-NTH

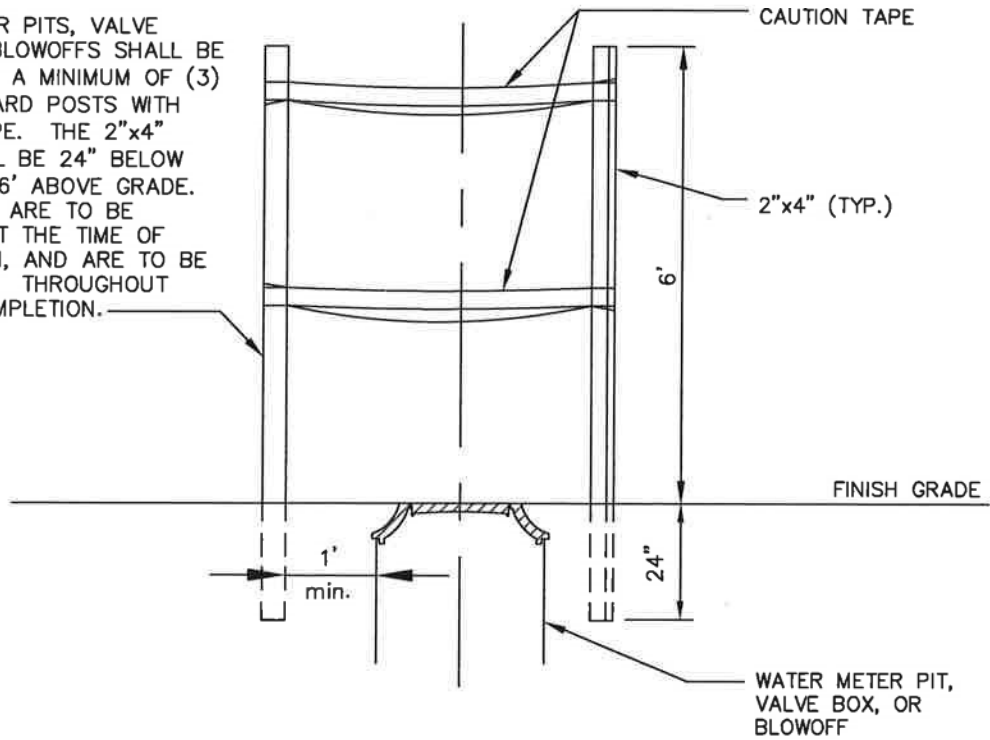


== NOTES ==

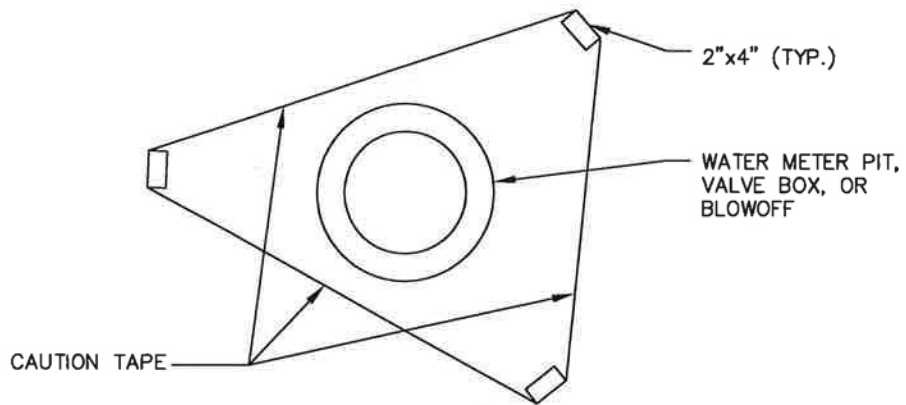
1. WATER METER—SHALL BE SIZED, FURNISHED & INSTALLED BY CITY FORCES.
2. VAULT AREA BASE SHALL BE 6" COMPACTED #57 STONE.
3. IF WATER MAIN IS C-900, USE APPROVED SADDLE FOR TAP.
4. FOR C-900 MAIN 12" OR LESS: FORD FS313 SERIES STAINLESS STEEL SADDLE; MUELLER SS SERIES STAINLESS STEEL SERVICE SADDLE FOR 1" SERVICE SINGLE STUD 5" LENGTH.
5. FORD PITSETTER—FORD (SHOWN) NO. PSBHC-488-20-36-Q-NL-NO BYPASS MUELLER 1" RIGID COPPER SINGLE METER PIT W/OPTION CODE 000590.
6. PE TUBING SHALL BE CLASS 200, SDR-9, CTS-OD, 200 PSI, INSTALLED WITH #12 SOLID COATED COPPER TRACER WIRE FROM CORP. STOP TO SUPPLY SIDE ANGLE VALVE. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.
7. 1" PIT SETTERS INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1' BEYOND THE FRAME OF THE PIT SETTER LID. THE COLLAR SHALL BE 8" THICK AND BE SUPPORTED BY A 6" BASE OF #57 STONE AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. SLOPE THE COLLAR IN SUCH A WAY AS TO CREATE POSITIVE DRAINAGE.
8. SEE STD 300.15 FOR GUARD DETAIL.

CITY OF SALISBURY SALISBURY, MD	APPROVED <i>1/2/18</i> DATE	<h2>1" WATER SERVICE</h2>	DATE 3/23/05
	<i>Amanda Pellock</i> CITY ENGINEER		SCALE NONE
			DWG. NO. STD30014
			STD. NO. 300.14

WATER METER PITS, VALVE BOXES, OR BLOWOFFS SHALL BE GUARDED BY A MINIMUM OF (3) 2"x4"x8' GUARD POSTS WITH CAUTION TAPE. THE 2"x4" POSTS SHALL BE 24" BELOW GRADE AND 6' ABOVE GRADE. THE GUARDS ARE TO BE INSTALLED AT THE TIME OF INSTALLATION, AND ARE TO BE MAINTAINED THROUGHOUT PROJECT COMPLETION.



**FRONT VIEW**



**PLAN VIEW**

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
*Amanda Bollack*  
DATE  
CITY ENGINEER

TYPICAL WATER METER PIT,  
VALVE BOX, OR BLOWOFF  
MARKER/GUARD DETAIL

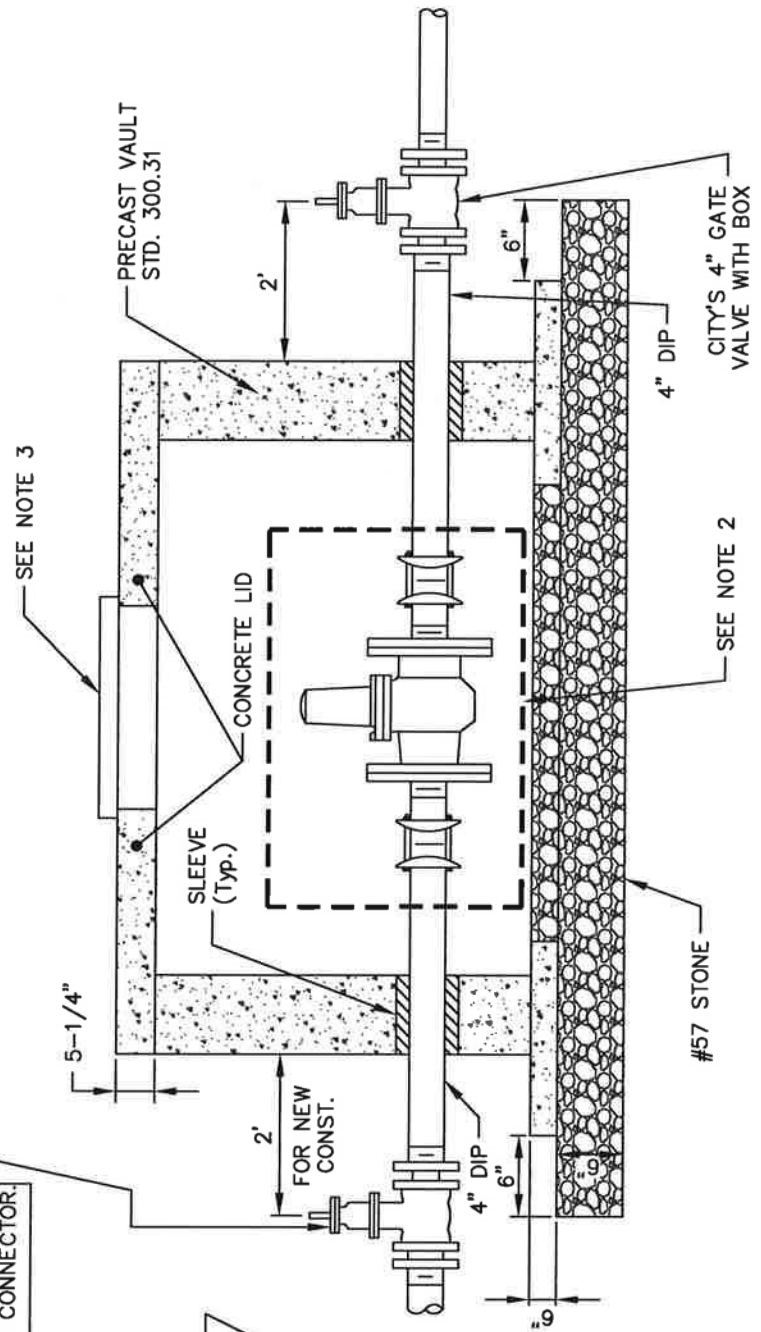
DATE	1/31/06
SCALE	NONE
DWG. NO.	STD30015
STD. NO.	300.15

\* CITY'S 4" GATE VALVE WITH BOX TRACER WIRE TO BE ACCESSIBLE FROM VALVE BOX AND TIED INTO MAIN WITH ILSICO IK10 CONNECTOR.

4" BRANCH OFF MAIN (NEW CONSTRUCTION) OR TAPPING TEE AND VALVE. (RETROFIT)

CITY WATER MAIN

4" C-900 OR D.I. PIPE



NOTES

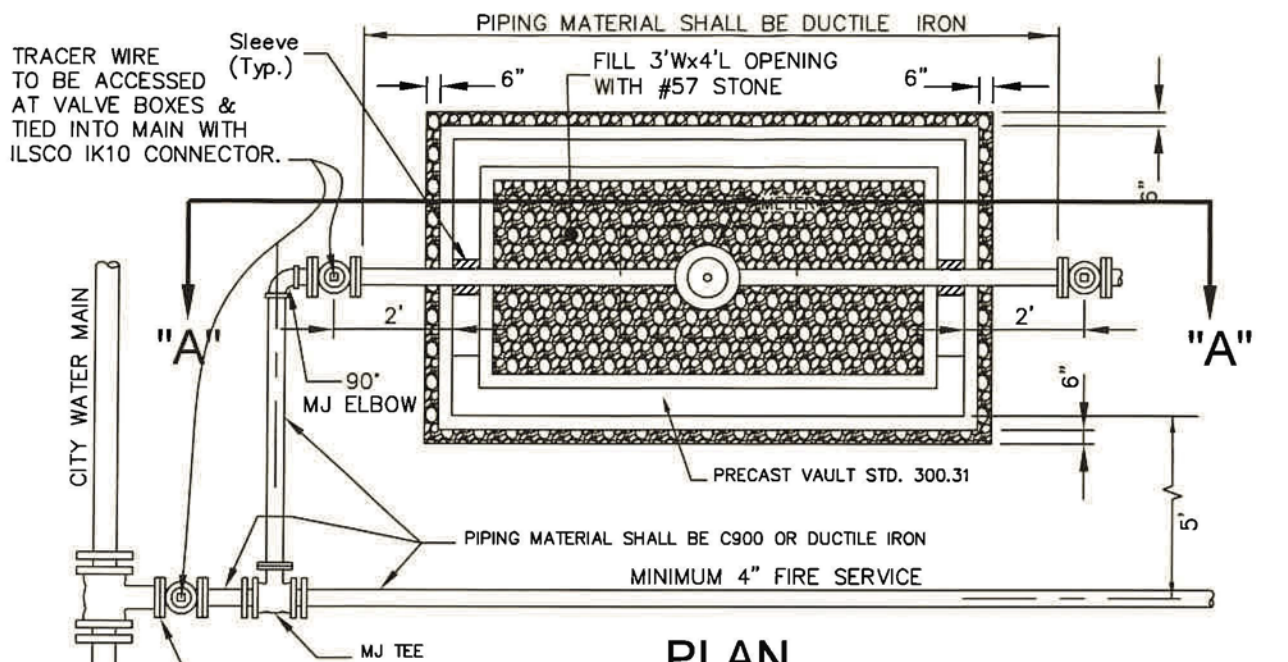
1. SLEEVES SHALL BE PVC OR IRON PIPE TWO (2) PIPE SIZES GREATER THAN SERVICE PIPE.
2. WATER METER SHALL BE SIZED, FURNISHED AND INSTALLED BY CITY FORCES.
3. CASTING—SEE DETAIL 300.30
4. INLET AND OUTLET OPENINGS TO BE FURNISHED W/APPROVED GASKET FROM MANUFACTURER OR A FIELD INSTALLED GASKET APPROVED BY CITY INSPECTOR.
5. CONCRETE LID SHALL BE FASTENED TO STRUCTURE WITH APPROVED TYPE S MORTAR.
6. DOMESTIC SERVICE PIPING MATERIAL SHALL BE DUCTILE IRON PIPE FROM GATE VALVE TO GATE VALVE, THROUGH PIT. REMAINDER OF PIPING MATERIAL SHALL BE C 900 OR DUCTILE IRON.
7. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON CUSTOMER SERVICE SIDE OF VAULT WHICH IS TO BE OWNED AND MAINTAINED BY CUSTOMER.

CITY OF SALISBURY  
SALISBURY, MD

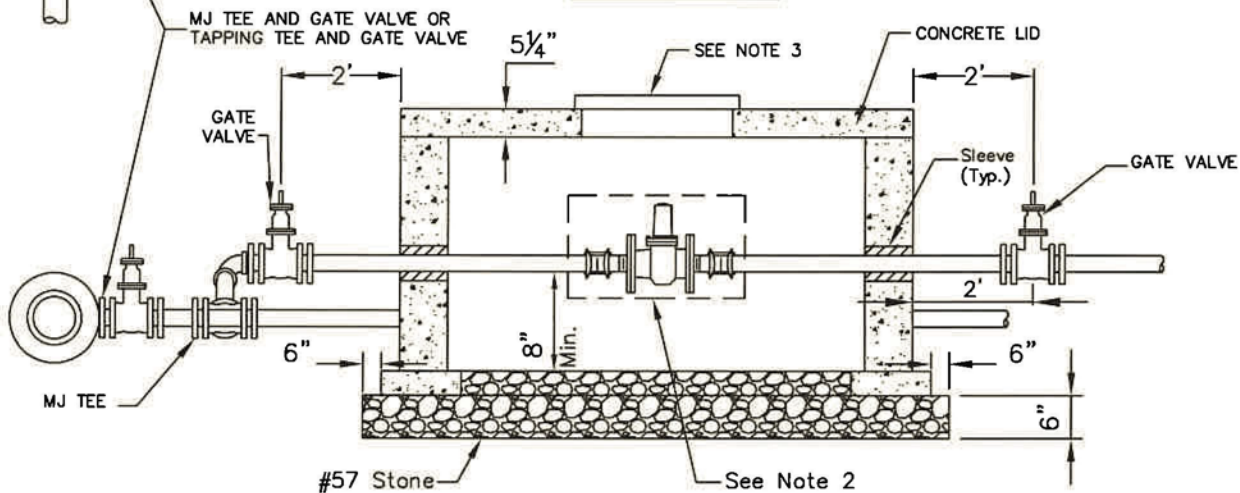
APPROVED  
1/2/18  
*Amanda Pollock*  
CITY ENGINEER

TYPICAL 4" WATER SERVICE

DATE	3/24/99
SCALE	NONE
DWG. NO.	STD30025
STD. NO.	300.25



**PLAN**



**SECTION A-A**

- NOTES:
1. SLEEVES SHALL BE PVC OR IRON PIPE TWO (2) PIPE SIZES GREATER THAN SERVICE PIPE.
  2. WATER METER SHALL BE SIZED, FURNISHED AND INSTALLED BY CITY FORCES.
  3. CASTING—SEE DETAIL 300.30
  4. INLET AND OUTLET OPENINGS TO BE FURNISHED W/APPROVED GASKET FROM MANUFACTURER OR A FIELD INSTALLED GASKET APPROVED BY CITY INSPECTOR.
  5. CONCRETE LID SHALL BE FASTENED TO STRUCTURE WITH APPROVED TYPE S MORTAR.
  6. DOMESTIC SERVICE PIPING MATERIAL SHALL BE DUCTILE IRON PIPE FROM GATE VALVE TO GATE VALVE, THROUGH PIT. REMAINDER OF PIPING MATERIAL SHALL BE C 900 OR DUCTILE IRON.
  7. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON CUSTOMER SERVICE SIDE OF VAULT WHICH IS TO BE OWNED AND MAINTAINED BY CUSTOMER.
  8. REFER TO CITY CODE SECTION 13.08.050 FOR ADDITIONAL REQUIREMENTS.

REVISED: 01/04/23

CITY OF  
SALISBURY  
SALISBURY, MD

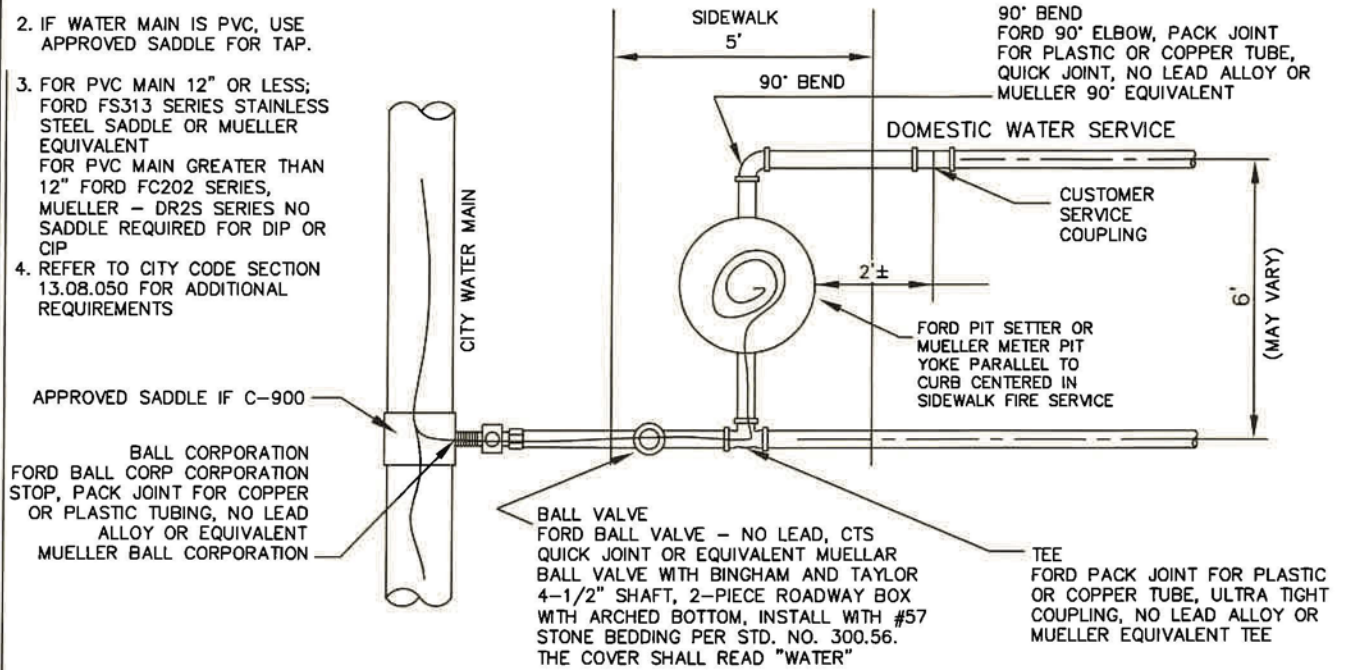
APPROVED  
*[Signature]*  
DATE  
2/23/23  
CITY ENGINEER

COMBINATION DOMESTIC  
FIRE SERVICE  
DOMESTIC 4" OR GREATER  
FIRE SERVICE 4" OR GREATER

DATE	03/24/99
SCALE	NONE
DWG. NO.	STD30026
STD. NO.	300.26

**NOTES**

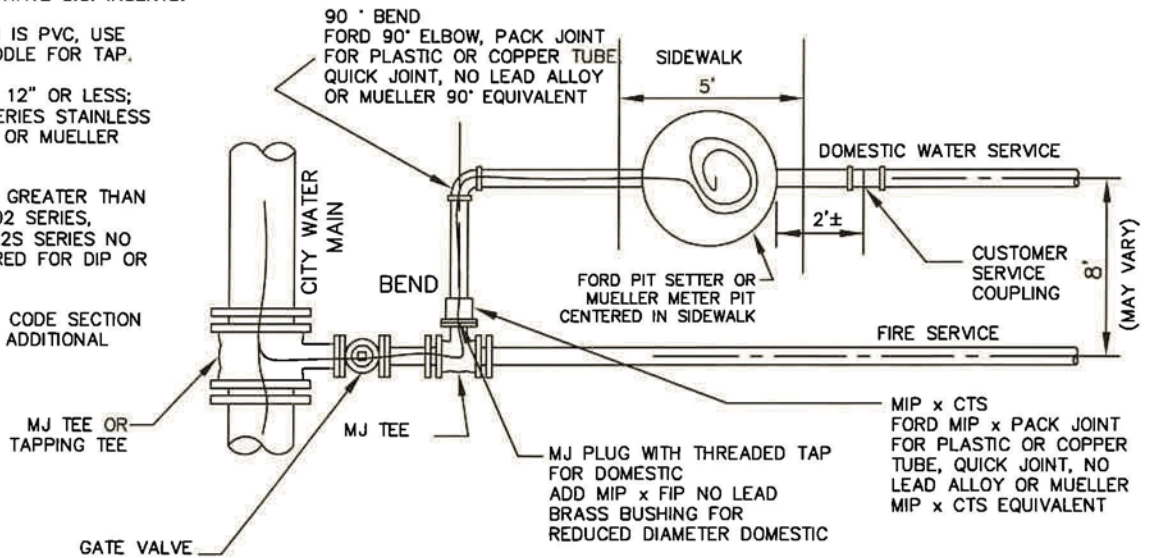
1. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.
2. IF WATER MAIN IS PVC, USE APPROVED SADDLE FOR TAP.
3. FOR PVC MAIN 12" OR LESS; FORD FS313 SERIES STAINLESS STEEL SADDLE OR MUELLER EQUIVALENT FOR PVC MAIN GREATER THAN 12" FORD FC202 SERIES, MUELLER - DR2S SERIES NO SADDLE REQUIRED FOR DIP OR CIP
4. REFER TO CITY CODE SECTION 13.08.050 FOR ADDITIONAL REQUIREMENTS



**DOMESTIC WATER SERVICE 1" TO 3-3/4"  
FIRE SERVICE 1" TO 3-3/4"**

**NOTES**

1. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.
2. IF WATER MAIN IS PVC, USE APPROVED SADDLE FOR TAP.
3. FOR PVC MAIN 12" OR LESS; FORD FS313 SERIES STAINLESS STEEL SADDLE OR MUELLER EQUIVALENT FOR PVC MAIN GREATER THAN 12" FORD FC202 SERIES, MUELLER - DR2S SERIES NO SADDLE REQUIRED FOR DIP OR CIP
4. REFER TO CITY CODE SECTION 13.08.050 FOR ADDITIONAL REQUIREMENTS



**DOMESTIC WATER SERVICE 1" - 3/4"  
FIRE SERVICE 4" OR GREATER**

REVISED: 01/04/23

**CITY OF  
SALISBURY  
SALISBURY, MD**

APPROVED

*[Signature]*  
DATE 2/23/23  
CITY ENGINEER

**CONFIGURATION:  
COMBINATION DOMESTIC  
FIRE SERVICE  
"PLAN VIEW"**

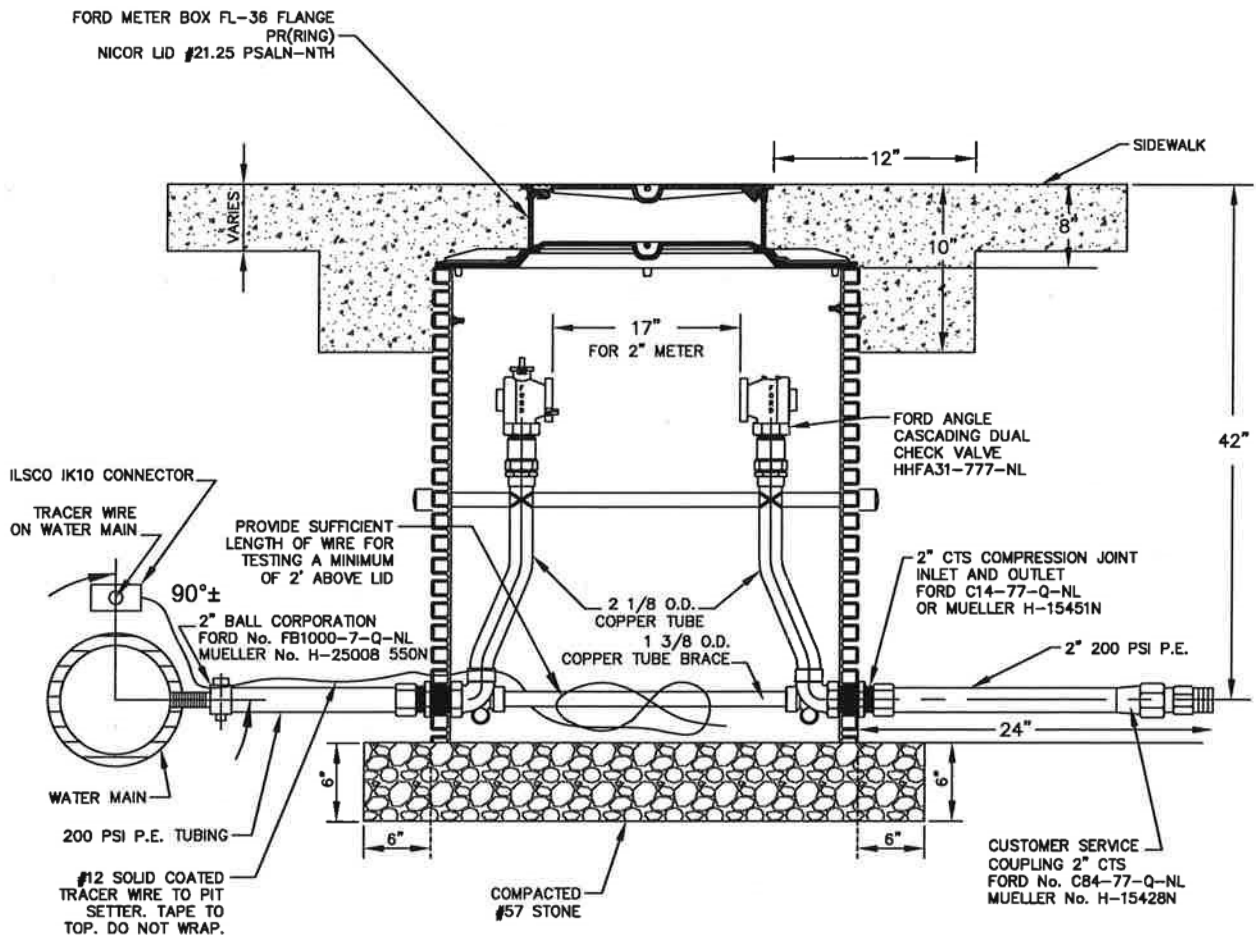
DATE 1/29/08

SCALE NONE

DWG. NO. STD30029

STD. NO. 300.29





**NOTES**

1. WATER METER—SHALL BE SIZED, FURNISHED & INSTALLED BY CITY FORCES.
2. VAULT AREA BASE SHALL BE 6" COMPACTED #57 STONE.
3. USE APPROVED SADDLE FOR TAP.
4. FOR MAIN 12" OR LESS; FORD FS313 SERIES STAINLESS STEEL SADDLE MUELLER SS SERIES STAINLESS STEEL SADDLE FOR 2" SERVICE DOUBLE STUD 7½" LENGTH  
FOR MAIN GREATER THAN 12"; FORD FC202 SERIES MUELLER - DR2S SERIES
5. FORD PITSETTER—FORD NO. PMBHH-788-36-42-G-NL NO BYPASS
6. PE TUBING SHALL BE CLASS 200, SDR-9, CTS-OD, 200 PSI, INSTALLED WITH #12 SOLID COATED COPPER TRACER WIRE FROM CORP. STOP TO SUPPLY SIDE ANGLE VALVE. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS. SEE WATER MAIN MATERIALS, WM-6.
7. 2" PIT SETTERS INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1' BEYOND THE FRAME OF THE PIT SETTER LID. THE COLLAR SHALL BE 8" THICK AND BE SUPPORTED BY A 6" BASE OF #57 AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. SLOPE THE COLLAR IN SUCH A WAY AS TO CREATE POSITIVE DRAINAGE.
8. SEE STD 300.15 FOR GUARD DETAIL.

**CITY OF SALISBURY**  
SALISBURY, MD

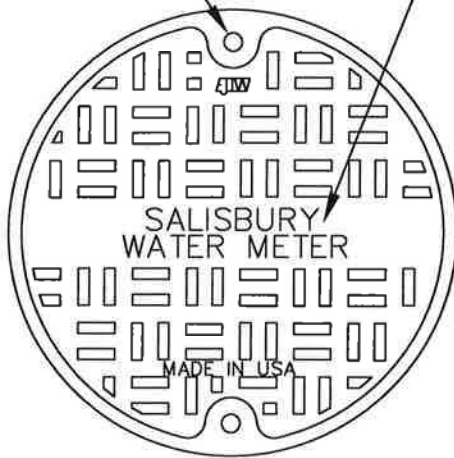
APPROVED  
*1/2/18*  
*Amanda Beland*  
DATE  
CITY ENGINEER

**2" WATER SERVICE  
W/FORD PIT SETTER**

DATE	12/14/01
SCALE	NONE
DWG. NO.	STD30027
STD. NO.	300.27

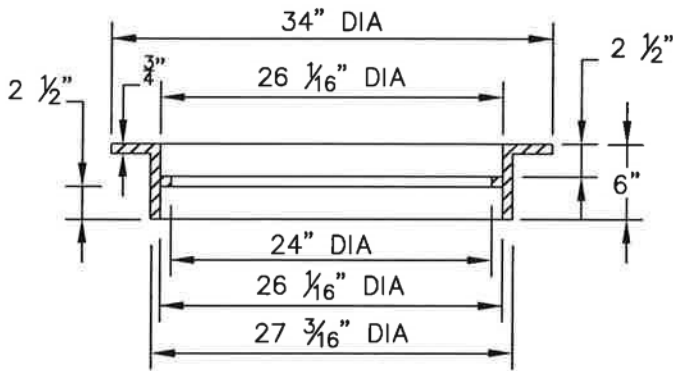
1 1/8" DIA HOLES (TYP.)

1 1/4" RAISED LETTERS



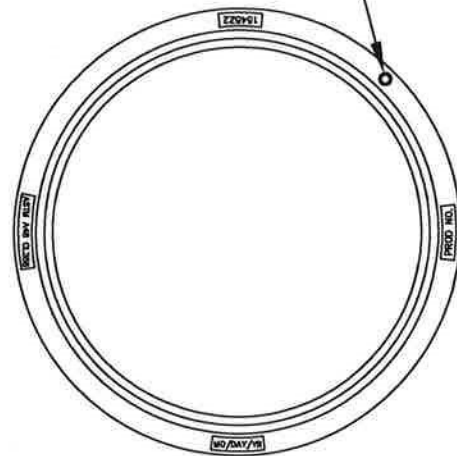
PLAN  
SCALE: N.T.S.

BOTTOM VIEW



FRAME—GRAY CAST IRON  
ASTM A48 CL35B

1" DIA HANDLING HOLE



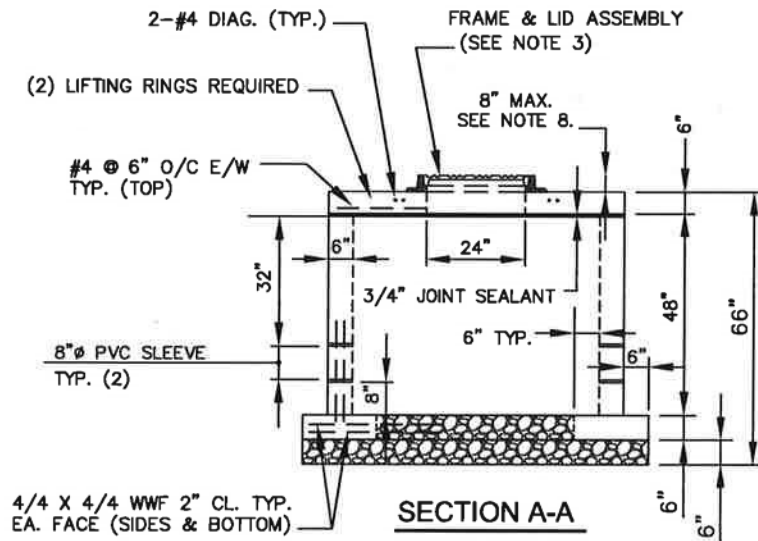
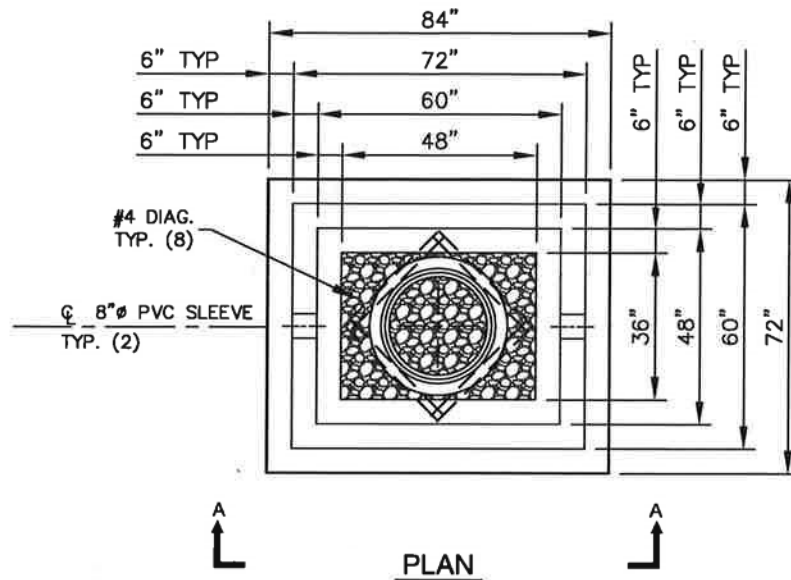
BOTTOM VIEW

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

CIRCULAR FRAME &  
COVER FOR PRE-CAST  
WATER METER VAULTS

DATE	4/13/81
SCALE	NONE
DWG. NO.	STD30030
STD. NO.	300.30



**NOTES:**

1. CONCRETE TO BE 5,000 PSI @ 28 DAYS
2. INLET AND OUTLET OPENINGS TO BE FURNISHED WITH APPROVED GASKETS FROM MANUFACTURER OR A FIELD INSTALLED GASKET APPROVED BY CITY INSPECTOR.
3. FRAME & LID ASSEMBLY SEE 300.30
4. SLEEVES SHALL BE PVC PIPE
5. VAULT AREA BASE SHALL BE 6" COMPACTED # 57 STONE
6. OPENING IN 6" THICK TOP SLAB SHALL BE 24" ROUND
7. INSIDE DIMENSIONS TO BE 4'W x 5'L WITH A 3'W x 4'L FLOOR OPENING.

CITY OF  
SALISBURY  
SALISBURY, MD

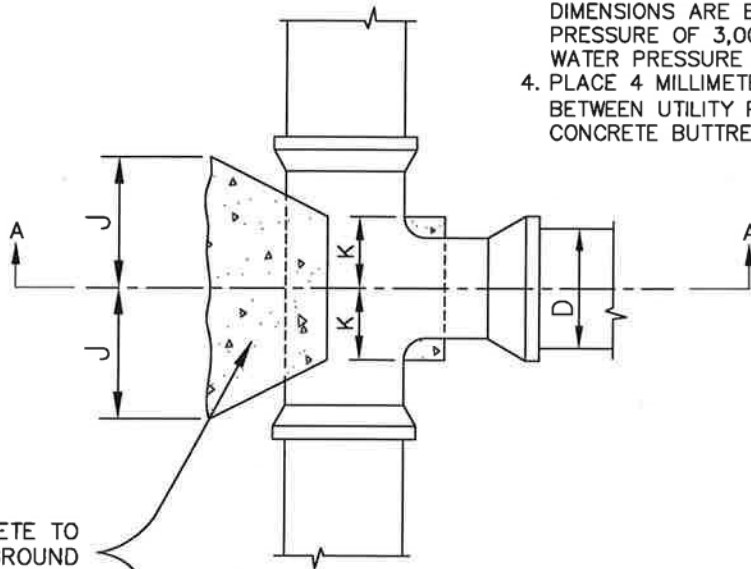
APPROVED  
1/2/18  
DATE  
Amanda Pollack  
CITY ENGINEER

PRE-CAST CONCRETE  
WATER METER VAULT  
& LID

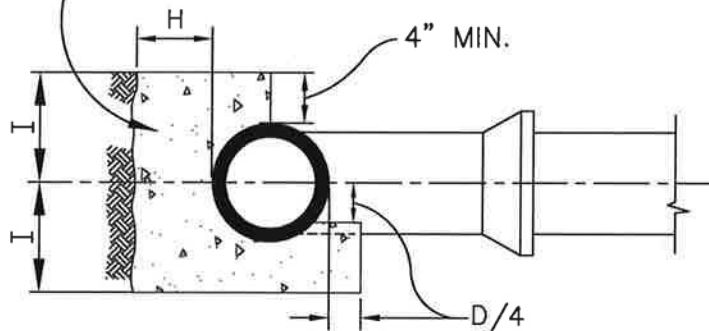
DATE	1/30/08
SCALE	N.T.S.
DWG. NO.	STD30031
STD. NO.	300.31

NOTES:

1. SHALL APPLY TO CUT IN TEES AND TAPPING TEES.
2. ALL CONCRETE TO BE 2,500 PSI.
3. BUTTRESS DIMENSIONS SHOWN ARE MINIMUM. DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 3,000 P.S.F. AND STATIC WATER PRESSURE OF 10 P.S.I.
4. PLACE 4 MILLIMETER PLASTIC SHEETING BETWEEN UTILITY PIPE AND/OR FITTING AND CONCRETE BUTTRESS.



PLAN



SECTION A-A

BUTTRESS FOR TEES								
SIZE OF BRANCH								
D	6"	8"	10"	12"	16"	20"	24"	30"
H	8"	9"	10"	1'-0"	1'-2"	1'-4"	1'-6"	1'-9"
I	8"	10"	1'-0"	1'-3"	1'-8"	2'-1"	2'-6"	3'-1"
J	7"	9"	1'-0"	1'-2"	1'-6"	1'-11"	2'-4"	2'-10"
K	6"	8"	8"	8"	10"	1'-2"	1'-4"	1'-6"

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED

1/2/18  
Amanda Pollack  
CITY ENGINEER

STANDARD WATER DETAILS  
BUTTRESS FOR TEES

DATE 12/03/98

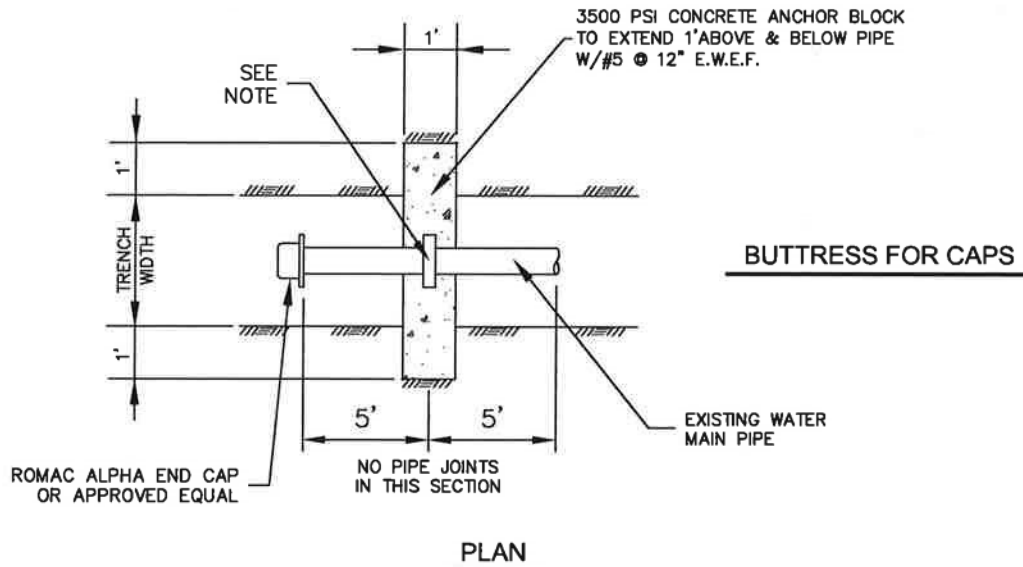
SCALE NONE

DWG. NO. STD30040

STD. NO. 300.40

**NOTE:**

PVC — MEGALUG SERIES 2000 PV MJ RESTRAINT OR APPROVED EQUAL  
DIP — MEGALUG SERIES 1100 MJ RESTRAINT OR APPROVED EQUAL

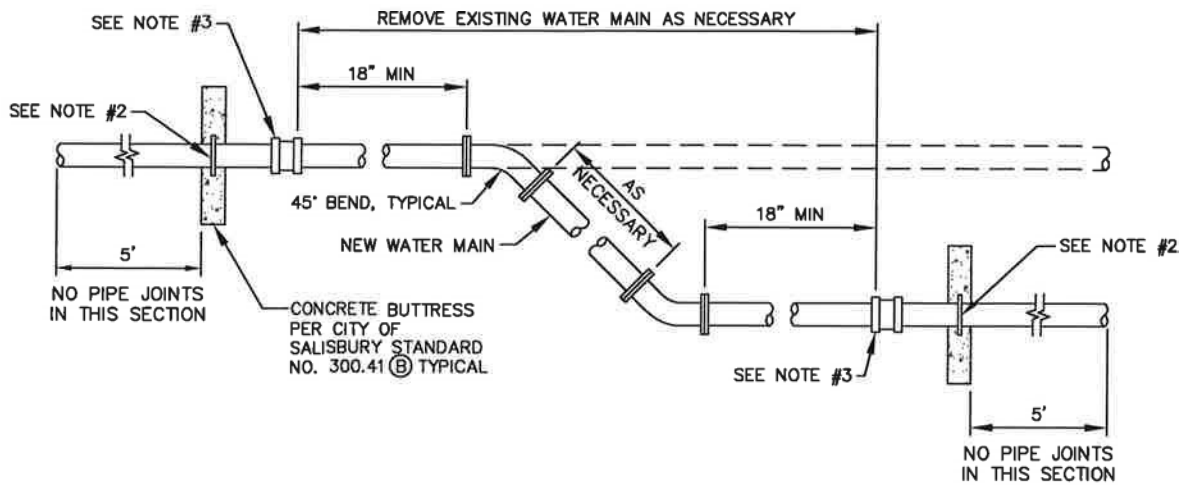


CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Belack*  
CITY ENGINEER

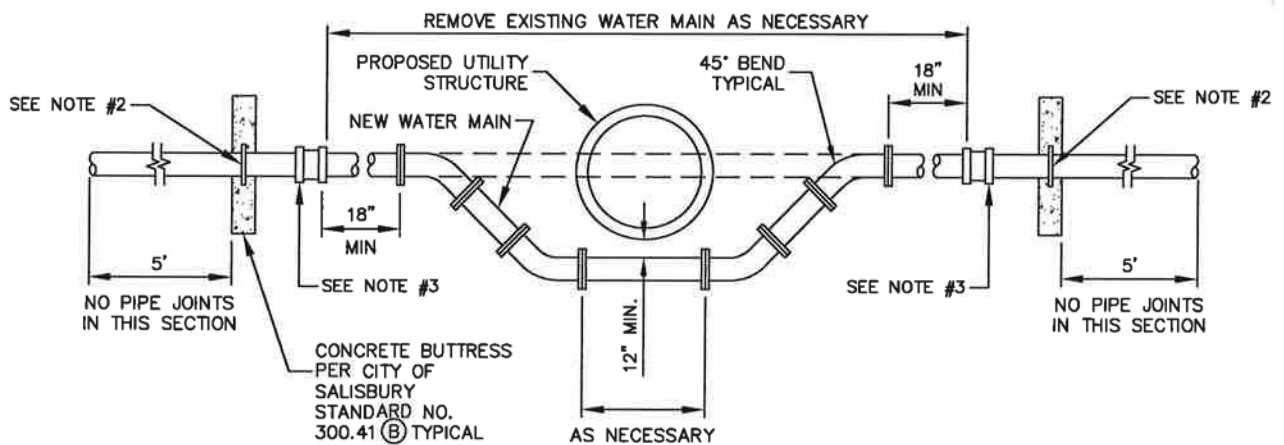
STANDARD INSTALLATION  
FOR END CAPS ON EXISTING  
WATER MAINS

DATE	12/03/98
SCALE	NONE
DWG. NO.	STD30041
STD. NO.	300.41



HORIZONTAL REALIGNMENT

(A)



VERTICAL REALIGNMENT

(B)

NOTES:

1. TO RAISE WATER MAIN USE INVERSE OR MIRROR IMAGE OF VERTICAL REALIGNMENT
2. PVC-MEGALUG SERIES 2000 PV MJ RESTRAINT OR APPROVED EQUAL  
DIP-MEGALUG SERIES 1100 MJ RESTRAINT OR APPROVED EQUAL
3. STANDARD ALPHA, ALPHA TRANSITION RESTRAINED COUPLING MANUFACTURED BY ROMAC INDUSTRIES INC OR SERIES 3800 MEGA COUPLING MANUFACTURED BY EBAA IRON INC OR APPROVED EQUAL
4. MUST USE RESTRAINING GASKETS OR ALPHA COUPLINGS FOR ALL PIPE JOINTS.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

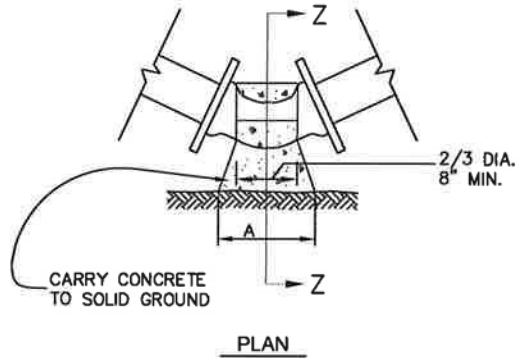
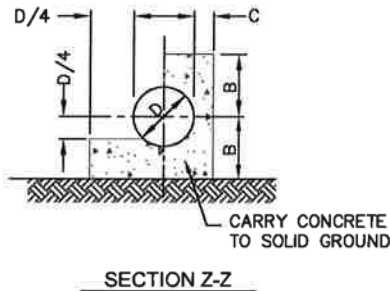
WATER MAIN  
REALIGNMENT DETAILS

DATE 1/30/08  
SCALE NONE  
DWG. NO. STA30042  
STD. NO. 300.42

NOTES:

1. ALL CONCRETE TO BE 2,500 PSI.
2. BUTTRESS DIMENSIONS SHOWN ARE MINIMUM. DIMENSIONS ARE BASED UPON SOIL BEARING PRESSURE OF 3,000 P.S.F. AND STATIC WATER PRESSURE OF 10 P.S.I.
- \* 3. PLACE 4 MILLIMETER PLASTIC SHEETING BETWEEN UTILITY PIPE AND/OR FITTING AND CONCRETE BUTTRESS. FOR PLAN A ONLY

BEND		6"	8"	10"	12"	16"	20"	24"	30"
11 1/4°	A	8"	8"	10"	1'-0"	1'-4"	1'-8"	2'-0"	2'-6"
	B	7"	8"	9"	10"	1'-0"	1'-2"	1'-4"	1'-7"
	C	7"	7"	8"	8"	9"	10"	1'-0"	1'-1"
22 1/2°	A	9"	1'-0"	1'-6"	1'-9"	2'-3"	3'-0"	3'-6"	4'-2"
	B	7"	8"	9"	10"	1'-0"	1'-2"	1'-4"	1'-7"
	C	8"	9"	10"	11"	1'-2"	1'-4"	1'-6"	1'-9"
45°	A	1'-3"	1'-8"	2'-1"	2'-6"	3'-4"	4'-2"	5'-0"	6'-3"
	B	7"	8"	9"	11"	1'-3"	1'-6"	1'-8"	2'-0"
	C	8"	9"	10"	11"	1'-2"	1'-4"	1'-9"	2'-3"
90°	A	2'-0"	2'-6"	3'-0"	3'-6"	5'-0"	SPECIAL DESIGN		
	B	0'-6"	0'-9"	1'-0"	1'-3"	1'-6"			
	C	1'-10"	1'-9"	1'-8"	1'-7"	1'-5"			



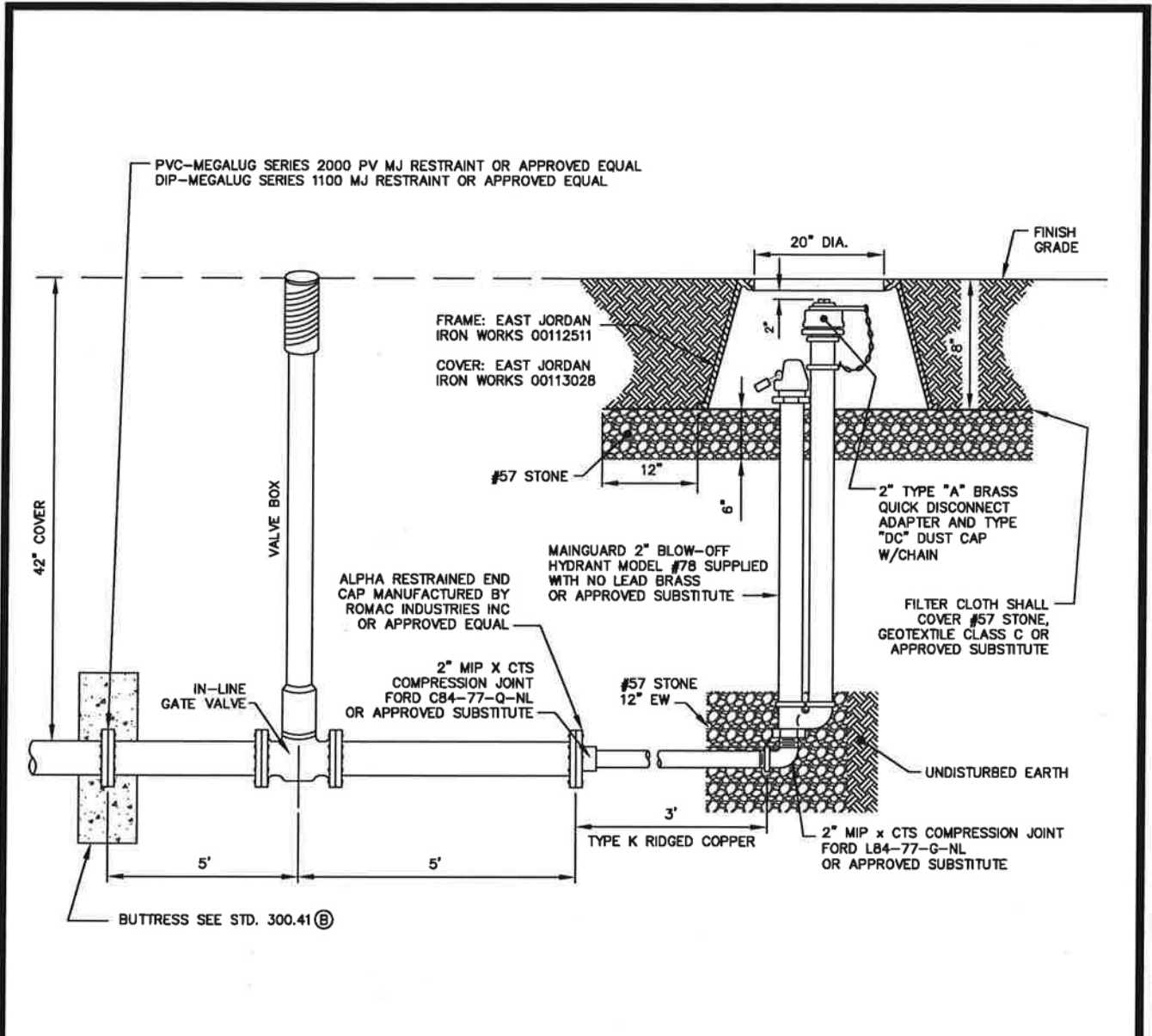
BUTTRESS FOR HORIZONTAL BENDS

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
Amanda Pollack  
CITY ENGINEER

STANDARD WATER DETAILS  
BUTTRESS FOR  
HORIZONTAL BENDS

DATE 12/03/98  
SCALE NONE  
DWG. NO. STD30043  
STD. NO. 300.43



PVC-MEGALUG SERIES 2000 PV MJ RESTRAINT OR APPROVED EQUAL  
 DIP-MEGALUG SERIES 1100 MJ RESTRAINT OR APPROVED EQUAL

FRAME: EAST JORDAN  
 IRON WORKS 00112511  
 COVER: EAST JORDAN  
 IRON WORKS 00113028

#57 STONE

MAINGUARD 2" BLOW-OFF  
 HYDRANT MODEL #78 SUPPLIED  
 WITH NO LEAD BRASS  
 OR APPROVED SUBSTITUTE

2" TYPE "A" BRASS  
 QUICK DISCONNECT  
 ADAPTER AND TYPE  
 "DC" DUST CAP  
 W/CHAIN

FILTER CLOTH SHALL  
 COVER #57 STONE,  
 GEOTEXTILE CLASS C OR  
 APPROVED SUBSTITUTE

ALPHA RESTRAINED END  
 CAP MANUFACTURED BY  
 ROMAC INDUSTRIES INC  
 OR APPROVED EQUAL

2" MIP X CTS  
 COMPRESSION JOINT  
 FORD CB4-77-Q-NL  
 OR APPROVED SUBSTITUTE

#57 STONE  
 12" EW

UNDISTURBED EARTH

2" MIP x CTS COMPRESSION JOINT  
 FORD LB4-77-G-NL  
 OR APPROVED SUBSTITUTE

42" COVER

IN-LINE  
 GATE VALVE

VALVE BOX

3'  
 TYPE K RIDGED COPPER

BUTTRESS SEE STD. 300.41 (B)

NOTE:

1. BLOW OFF HYDRANTS INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1' BEYOND THE FRAME OF THE BLOW OFF HYDRANT LID. THE COLLAR SHALL BE 8" THICK AND BE SUPPORTED BY A 6" BASE OF #57 STONE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. SLOPE THE COLLAR IN SUCH A WAY AS TO CREATE POSITIVE DRAINAGE. THE CONCRETE COLLAR SHALL BE REMOVED ENTIRELY PRIOR TO PAVING.
2. TRACER WIRE TO EXTEND 2' ABOVE VALVE BOX AND LAMP HOLE FOR ACCESS.

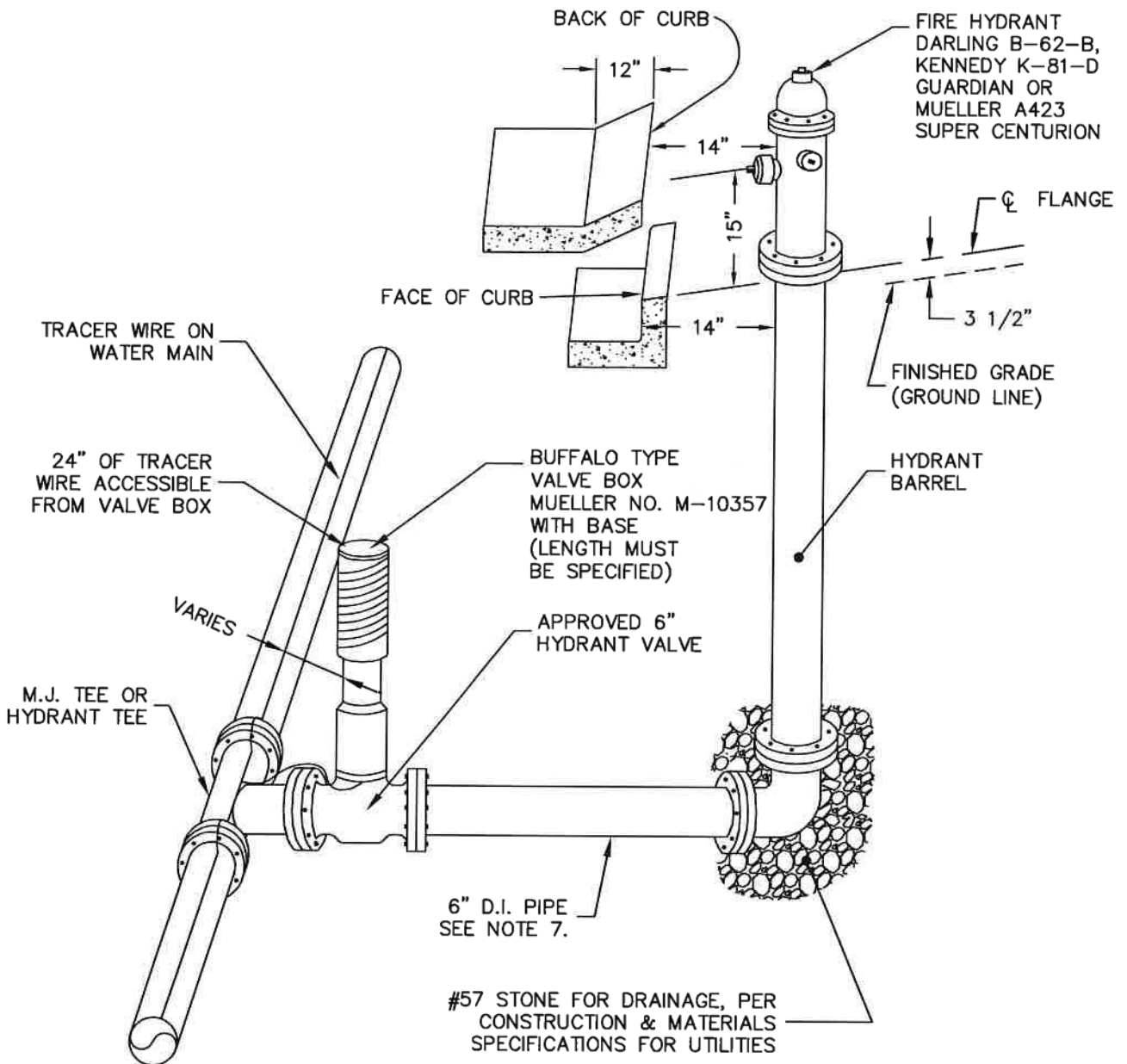
CITY OF  
 SALISBURY  
 SALISBURY, MD

APPROVED  
 1/2/18  
 Amanda Pollock  
 CITY ENGINEER

BLOW-OFF HYDRANT

DATE	1/30/08
SCALE	NONE
DWG. NO.	STD30051
STD. NO.	300.51





**NOTES:**

1. HYDRANT CHAINS ARE TO BE REMOVED @ TIME OF INSTALLATION.
2. MAINTAIN 3' CLEARANCE FROM CENTER OF HYDRANT FOR ALL ABOVE GROUND OBJECTS.
3. HYDRANTS SHALL NOT BE PLACED IN THE QUADRANT/RADIUS AREA OF A CURB RETURN FOR STREET INTERSECTIONS AND DRIVEWAY ENTRANCES.
4. HYDRANT LEAD SHALL BE DUCTILE IRON PIPE.
5. RESTRAIN ALL FITTINGS W/MEGALUG PER CITY SPECIFICATIONS.
6. TRACER WIRE SHALL HAVE A MECHANICAL BARREL SPLICE (ILSCO IK10) AT ALL SPLICES. PVC WATER MAINS REQUIRE #12 SOLID COPPER COATED TRACER WIRE TAPED TO THE TOP OF THE PIPE IN 10' INTERVALS, TERMINATING AT ALL VALVE BOXES. 24" MINIMUM OVERHANG AT TOP OF VALVE BOX.
7. MUST USE APPROVED BELL RESTRAINTS OR ALPHA COUPLINGS FOR ALL PIPE JOINTS OF THE HYDRANT LEAD.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED

2/1/19

DATE

*Amanda Pollack*  
CITY ENGINEER

STANDARD  
INSTALLATION  
FIRE HYDRANT

DATE 08/29/86

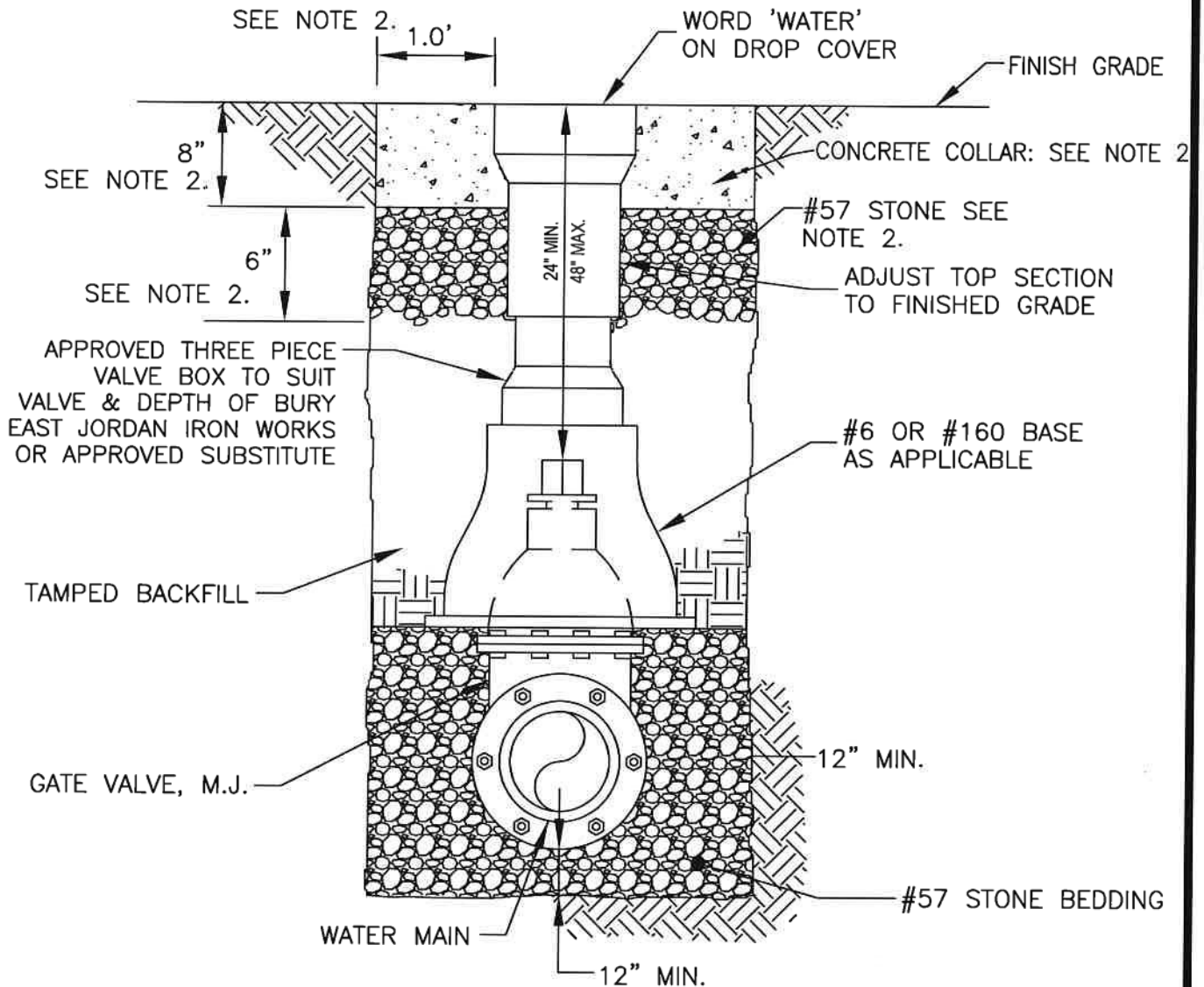
SCALE NONE

DWG. NO. STD30055

STD. NO. 300.55

NOTES:

1. EXTEND TRACER WIRE THROUGH VALVE BOX AND TERMINATE AT 24" ABOVE FINISH GRADE. LOOP EXCESS INTO VALVE BOX.
2. ALL VALVE BOXES INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE VALVE BOX LID. THE COLLAR SHALL BE 8" THICK AND BE SUPPORTED BY A 6" BASE OF #57 STONE AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. CONCRETE COLLARS SHALL BE INSTALLED AFTER THE TOP OF THE VALVE BOX LIDS ARE ADJUSTED TO FINISHED GRADE. SLOPE THE COLLAR AROUND VALVE BOX IN A WAY AS TO CREATE POSITIVE DRAINAGE AWAY FROM THE LID. THE CONCRETE COLLAR SHALL BE REMOVED ENTIRELY PRIOR TO PAVING.
3. SEE STD 300.15 FOR GUARD DETAIL.



CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED

2/1/19

DATE

*Amanda Pollock*  
CITY ENGINEER

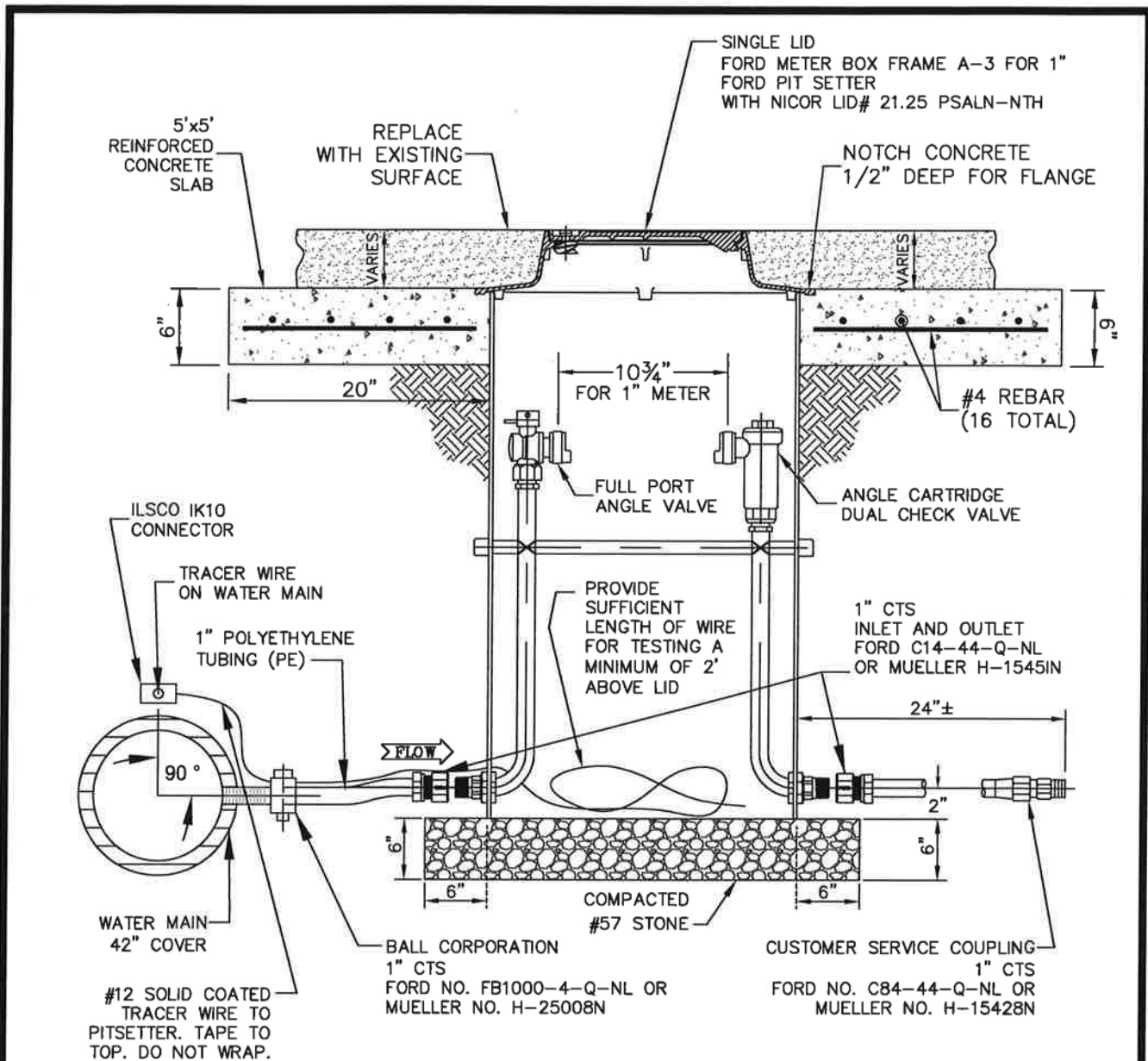
GATE VALVE INSTALLATION

DATE 11/02/09

SCALE NONE

DWG. NO. STD30056

STD. NO. 300.56



**NOTES**

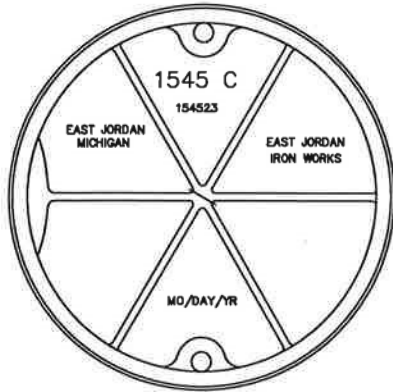
1. WATER METER—SHALL BE SIZED, FURNISHED & INSTALLED BY CITY FORCES.
2. VAULT AREA BASE SHALL BE 6" COMPACTED #57 STONE.
3. IF WATER MAIN IS PLASTIC, USE APPROVED SADDLE FOR TAP.
4. FOR PVC MAIN 12" OR LESS: FORD FS313 SERIES STAINLESS STEEL SADDLE
5. FOR 1" SERVICE SINGLE STUD 5" LENGTH: MUELLER SS SERIES STAINLESS STEEL SERVICE SADDLE
6. FORD PITSETTER—FORD (SHOWN) NO. PSBHC-488-20-36-Q-NL-NO BYPASS MUELLER 1" RIGID COPPER SINGLE METER PIT W/OPTION CODE 000590
7. PE TUBING SHALL BE CLASS 200, SDR-9, CTS-OD, 200 PSI, INSTALLED WITH #12 SOLID COATED COPPER TRACER WIRE FROM CORP. STOP TO SUPPLY SIDE ANGLE VALVE. ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.

**CITY OF SALISBURY**  
SALISBURY, MD

APPROVED  
*1/2/18*  
*Amanda Pollack*  
DATE  
CITY ENGINEER

**TRAFFIC BEARING  
1" WATER SERVICE**

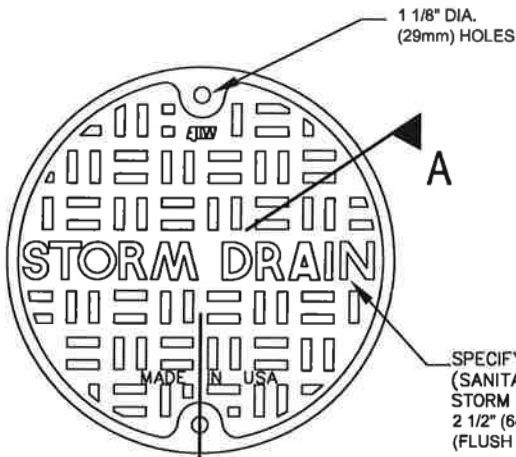
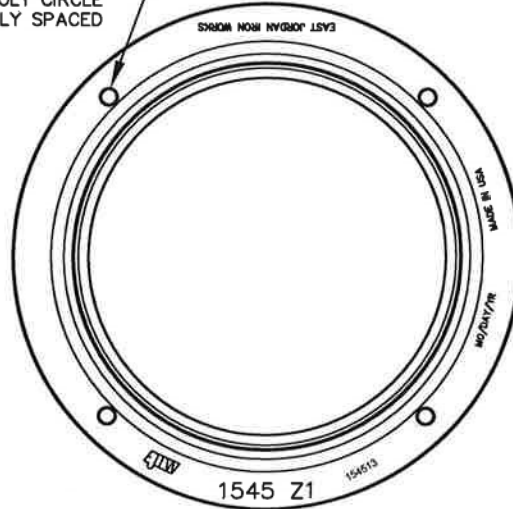
DATE	01/01/17
SCALE	NONE
DWG. NO.	STD30057
STD. NO.	300.57



BOTTOM VIEW

EAST JORDAN (SHOWN)  
 FRAME #154514  
 COVER #154524 (STORM WATER)  
 COVER #154523 (SANITARY SEWER)  
 NEENAH FOUNDRY  
 FRAME R-1565  
 COVER R-1565  
 OR APPROVED SUBSTITUTE

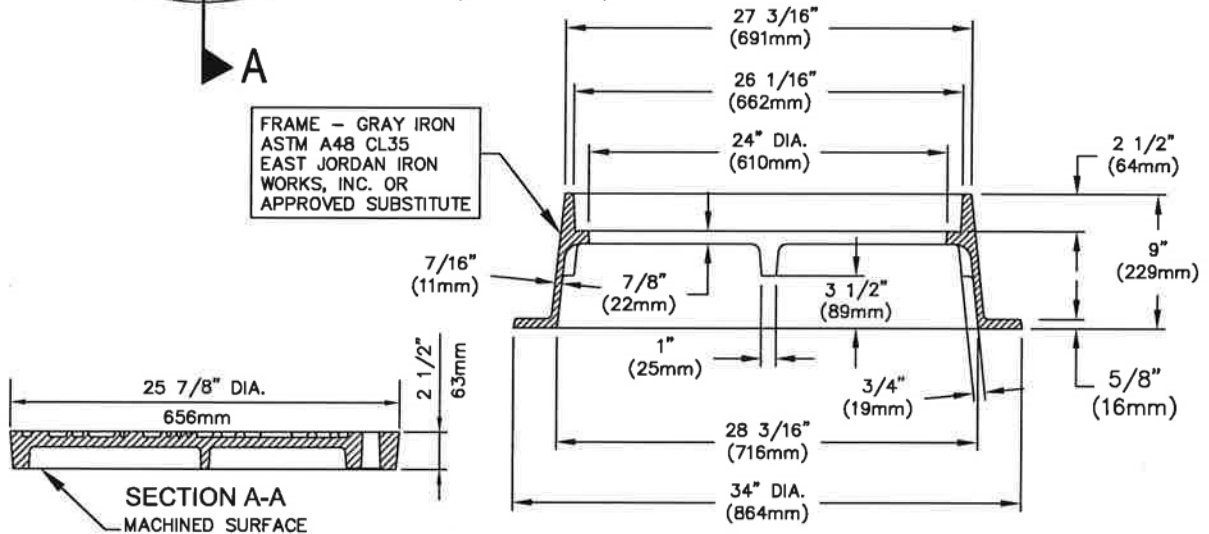
(4) 1" DIA (25mm)  
 HOLES ON 30 1/4"  
 DIA BOLT CIRCLE  
 EQUALLY SPACED



SPECIFY LETTERING  
 (SANITARY SEWER OR  
 STORM WATER)  
 2 1/2" (64) RAISED LETTERS  
 (FLUSH WITH TOP)

CAST IRON  
 MIN. AVG. WEIGHT  
 FRAME 180 LBS.  
 COVER 175 LBS.

FRAME - GRAY IRON  
 ASTM A48 CL35  
 EAST JORDAN IRON  
 WORKS, INC. OR  
 APPROVED SUBSTITUTE

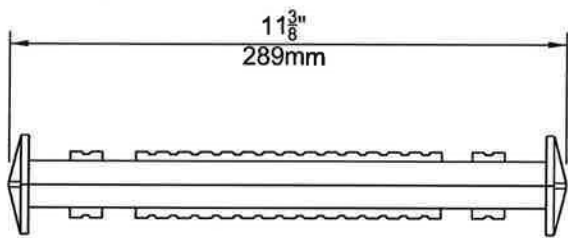
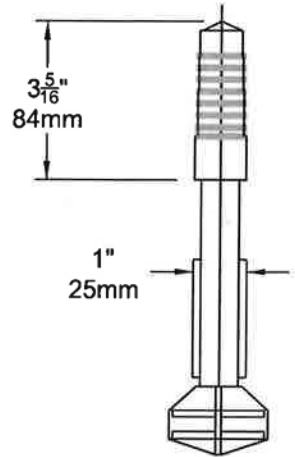
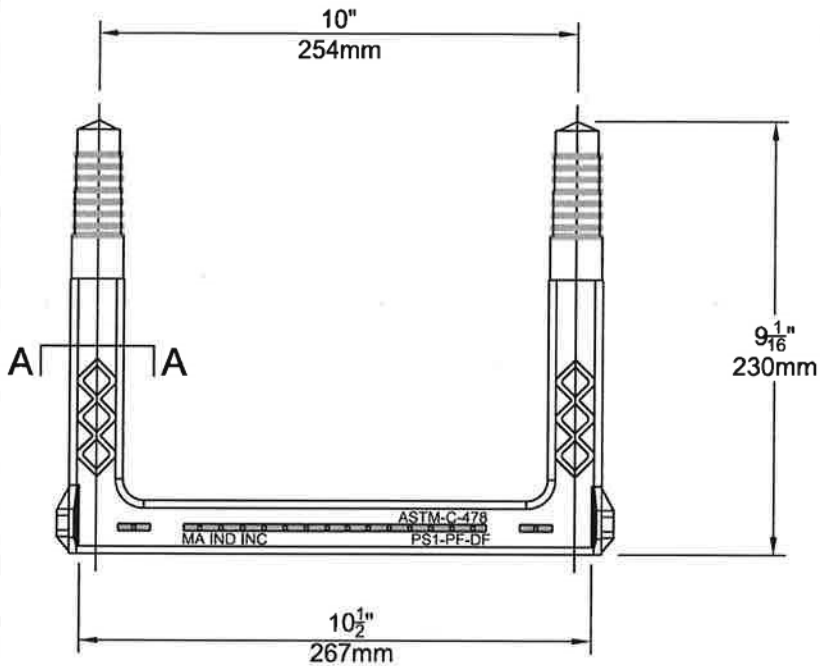


CITY OF  
 SALISBURY  
 SALISBURY, MD

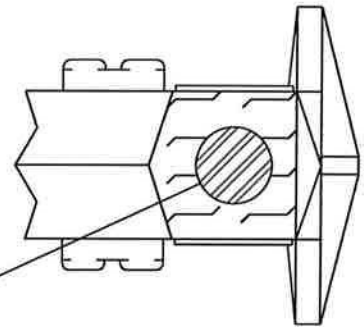
APPROVED  
 1/2/18  
 Amanda Pollock  
 CITY ENGINEER

MANHOLE FRAME & COVER  
 SANITARY SEWER OR  
 STORM WATER

DATE 1/04/01  
 SCALE NONE  
 DWG. NO. STD40010  
 STD. NO. 400.10

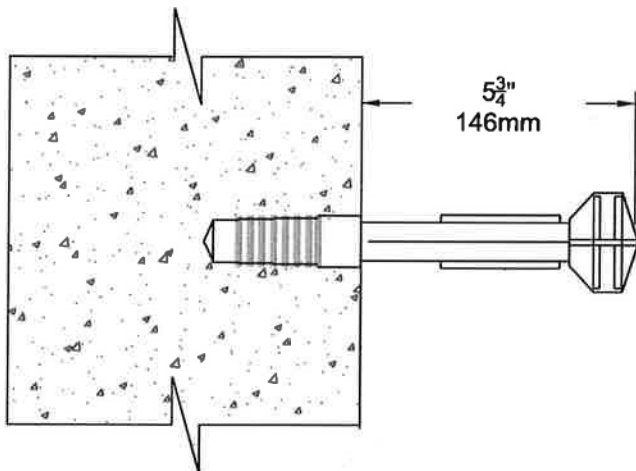


COPOLYMER POLYPROPYLENE PLASTIC  
13mm (1/2") GRADE 60 STEEL REINFORCEMENT



SECTION A-A

MEETS: ASTM C-478  
ASTM D-4101  
ASTM A-615  
AASHTO M-199

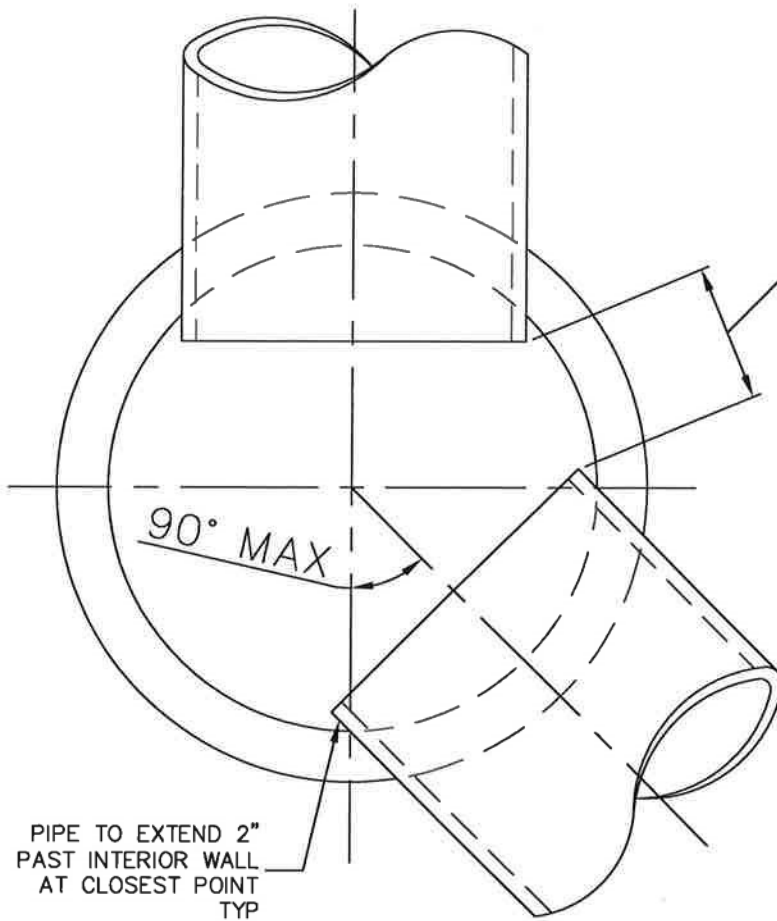


CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
*Amanda Pollack* DATE  
CITY ENGINEER

MANHOLE STEPS  
SANITARY SEWER  
OR  
STORM WATER

DATE 03/01/12  
SCALE NONE  
DWG. NO. STD40011  
STD. NO. 400.11



MIN. DISTANCE BETWEEN PENETRATIONS = 1/2 OF PIPE O.D. (MIN.)

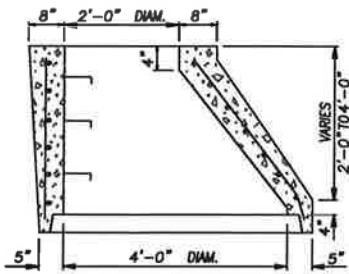
WHEN ADJACENT PIPES ARE DIFFERENT SIZES: USE 1/2 O.D. OF SMALLER PIPE

90° MAX

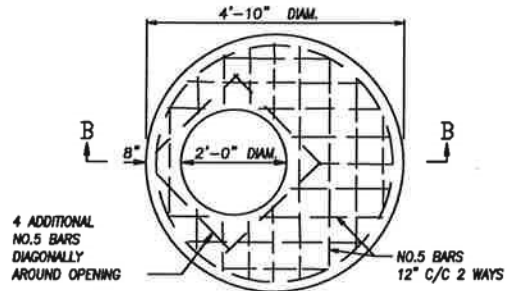
PIPE TO EXTEND 2" PAST INTERIOR WALL AT CLOSEST POINT TYP

PLAN VIEW OF MANHOLE

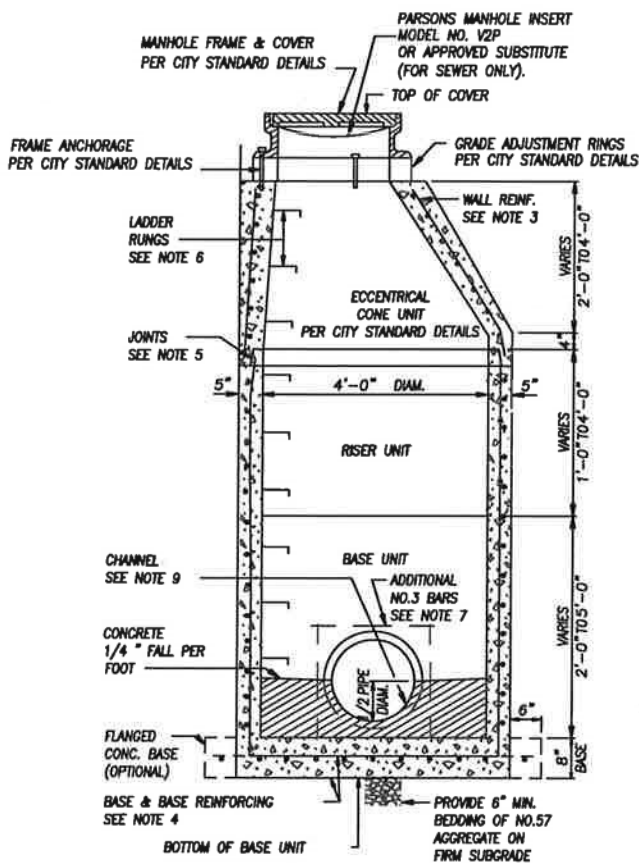
CITY OF SALISBURY SALISBURY, MD	APPROVED <i>1/2/18</i> <i>Amanda Pollac</i>	<b>MANHOLE          CONFIGURATIONS</b>	DATE 8/29/86
	DATE		SCALE NONE
	CITY ENGINEER		DWG. NO. STD40012
			STD. NO. 400.12



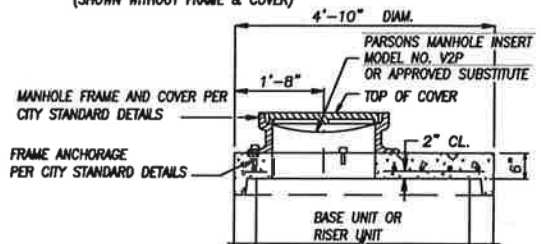
ALTERNATE ECCENTRIC  
CONE UNIT



FLAT SLAB TOP  
(SHOWN WITHOUT FRAME & COVER)



SECTION VIEW



SECTION B-B

NOTES

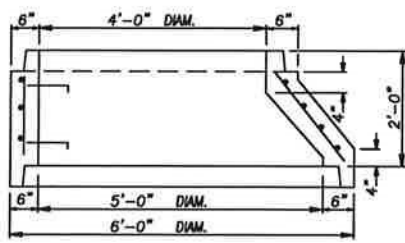
1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
3. WALL REINFORCEMENT FOR BASE UNITS, RISER UNITS AND ECCENTRIC CONE UNITS SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.12 SQ. IN./FT FOR THE 48" DIAMETER MANHOLES. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82. REINFORCEMENT BARS SHALL MEET ASTM A 615, GRADE 60.
4. BASE REINFORCEMENT SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.14 SQ. IN./FT THE BASE MAY BE CAST MONOLITHIC WITH THE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.
5. THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING RUBBER O-RING GASKETS MEETING ASTM C 361 & C 443.
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO. 2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

CITY OF  
SALISBURY  
SALISBURY, MD

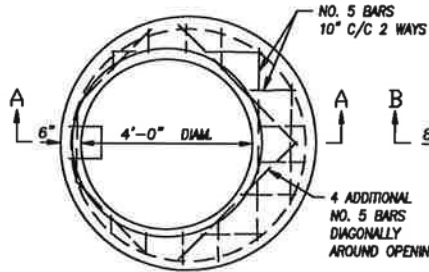
APPROVED  
1/2/18  
DATE  
Amanda Pollock  
CITY ENGINEER

48" DIAMETER  
MANHOLE  
FOR PIPES UP TO 24"

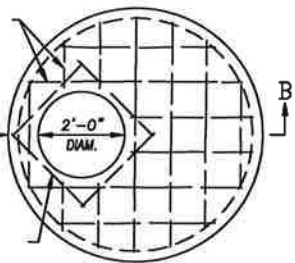
DATE 02/04/10  
SCALE N.T.S.  
DWG. NO. 400.13  
STD. NO. 400.13



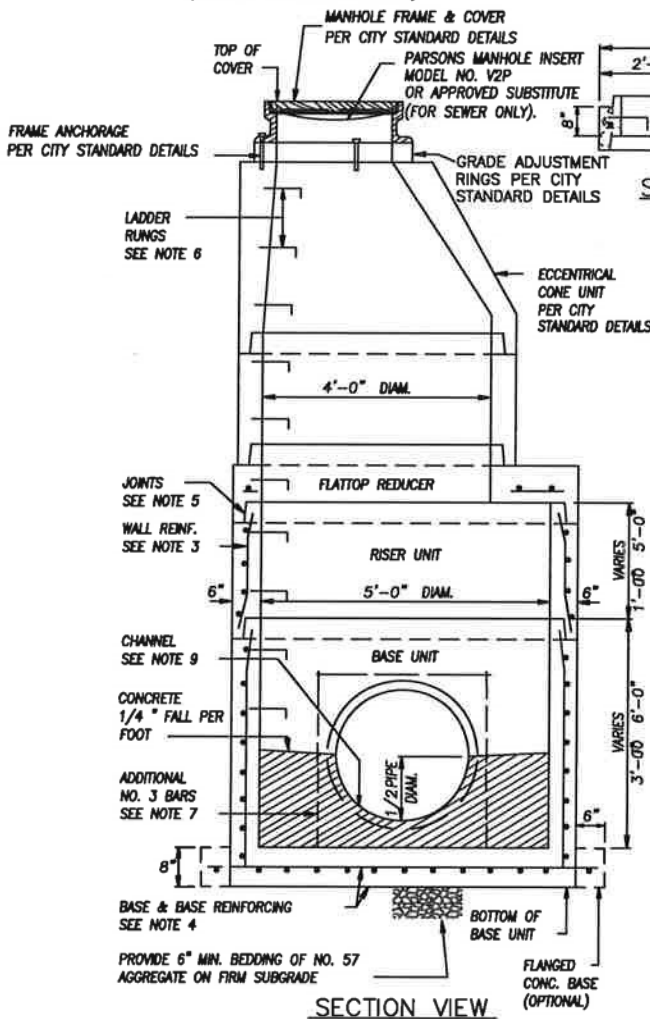
**ECCENTRIC CONE REDUCER**  
(ALTERNATE FOR FLATTOP REDUCER)



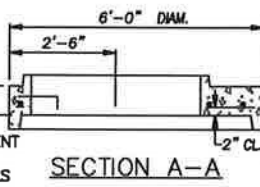
**FLATTOP REDUCER**



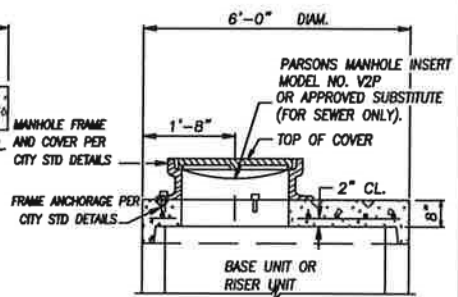
**FLAT SLAB TOP**  
(SHOWN WITHOUT FRAME & COVER)



**SECTION VIEW**



**SECTION A-A**



**SECTION B-B**

**NOTES**

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
3. WALL REINFORCEMENT FOR BASE UNITS, RISER UNITS AND ECCENTRIC CONE UNITS SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.12 SQ. IN./FT FOR THE 48" DIAMETER MANHOLES. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82. REINFORCEMENT BARS SHALL MEET ASTM A 615. GRADE 60.
4. BASE REINFORCEMENT SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.14 SQ. IN./FT THE BASE MAY BE CAST MONOLITHIC WITH THE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.
5. THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING RUBBER O-RING GASKETS MEETING ASTM C 361 & C 443.
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO.2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

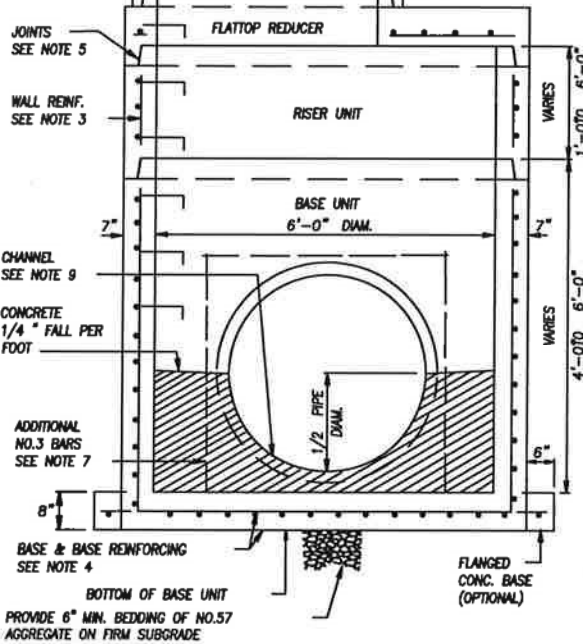
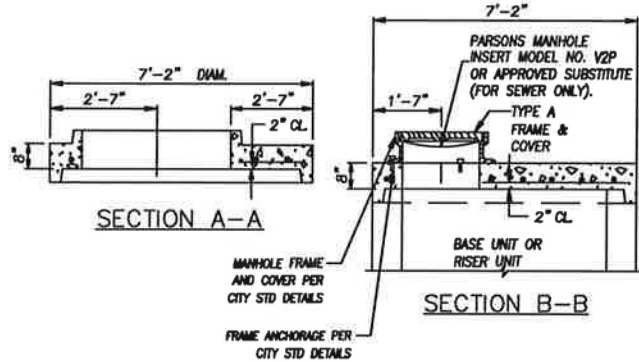
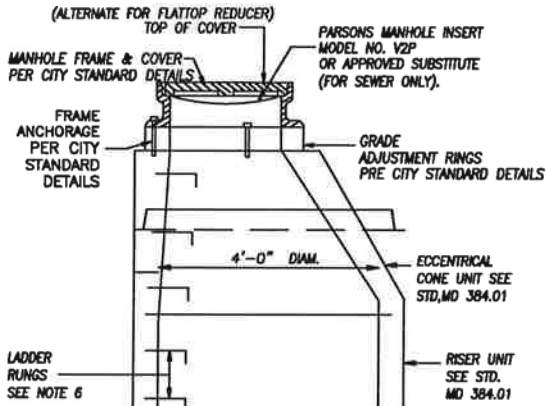
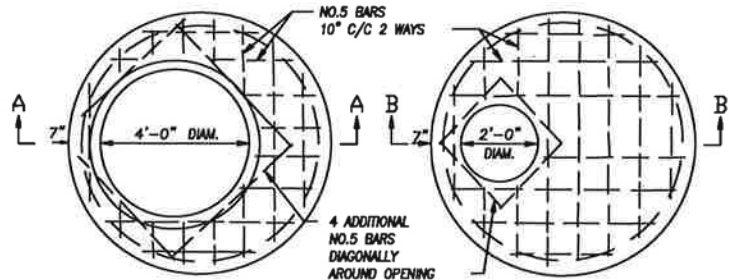
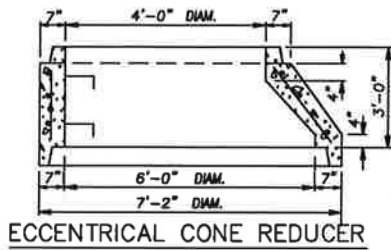
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Pollack*  
CITY ENGINEER

**60" DIAMETER  
MANHOLE  
FOR  
27" TO 36" PIPES**

DATE 02/04/10  
SCALE N.T.S.  
DWG. NO. STD40014  
STD. NO. 400.14





SECTION VIEW

NOTES

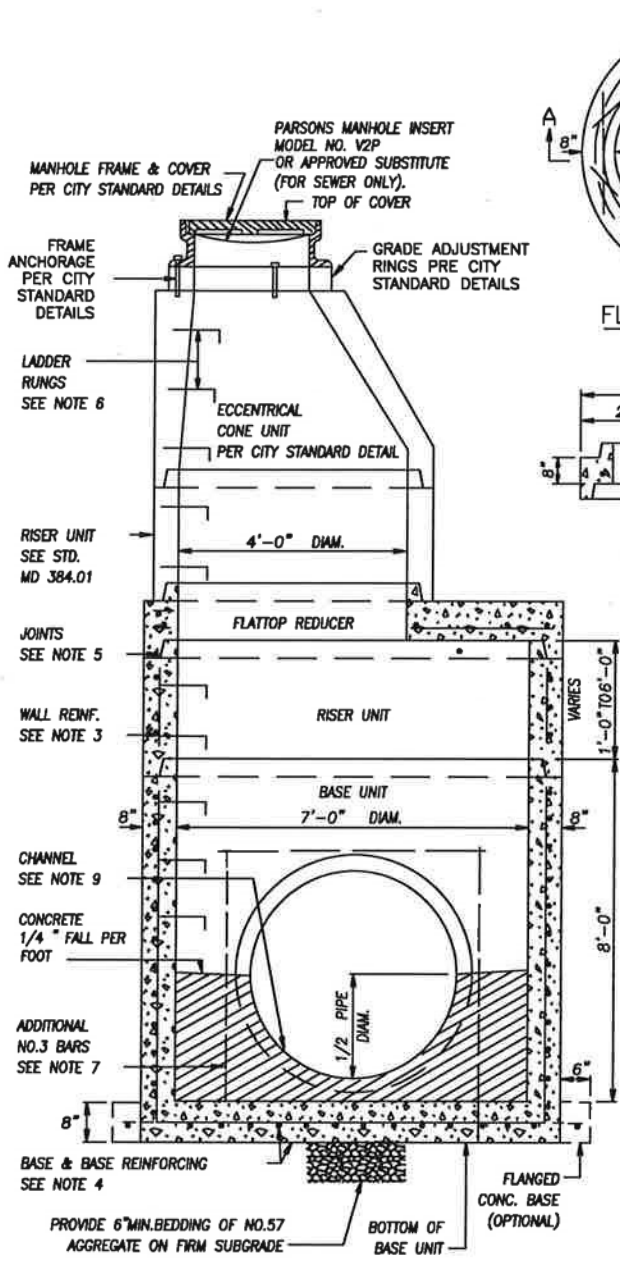
1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
3. WALL REINFORCEMENT FOR BASE UNITS, RISER UNITS AND ECCENTRICAL CONE UNITS SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.12 SQ. IN./FT FOR THE 48" DIAMETER MANHOLES. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82. REINFORCEMENT BARS SHALL MEET ASTM A 615, GRADE 60.
4. BASE REINFORCEMENT SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.14 SQ. IN./FT THE BASE MAY BE CAST MONOLITHIC WITH THE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.
5. THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING RUBBER O-RING GASKETS MEETING ASTM C 361 & C 443.
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO.2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

CITY OF  
SALISBURY  
SALISBURY, MD

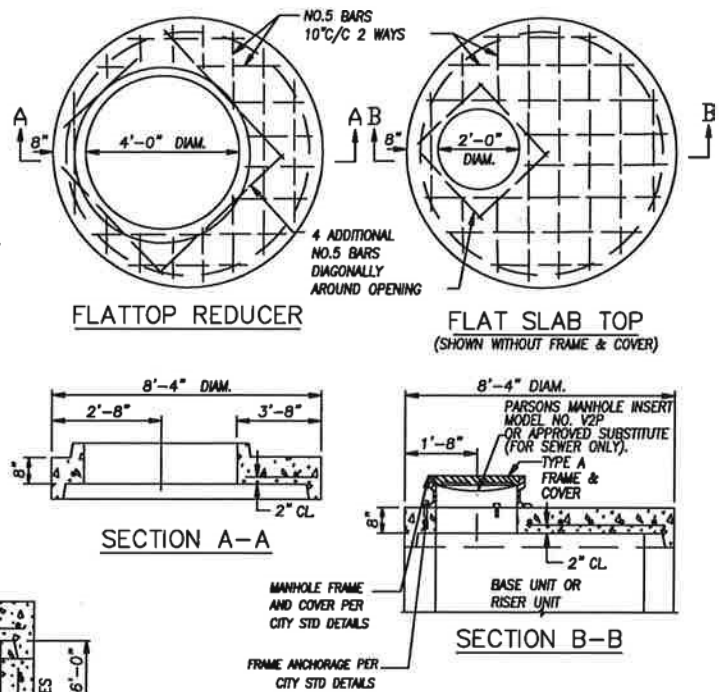
APPROVED  
1/2/18  
DATE  
*Amadeo Pollack*  
CITY ENGINEER

72" DIAMETER  
MANHOLE  
FOR  
42" TO 48" PIPES

DATE 02/04/10  
SCALE N.T.S.  
DWG. NO. STD40015  
STD. NO. 400.15



SECTION VIEW



NOTES

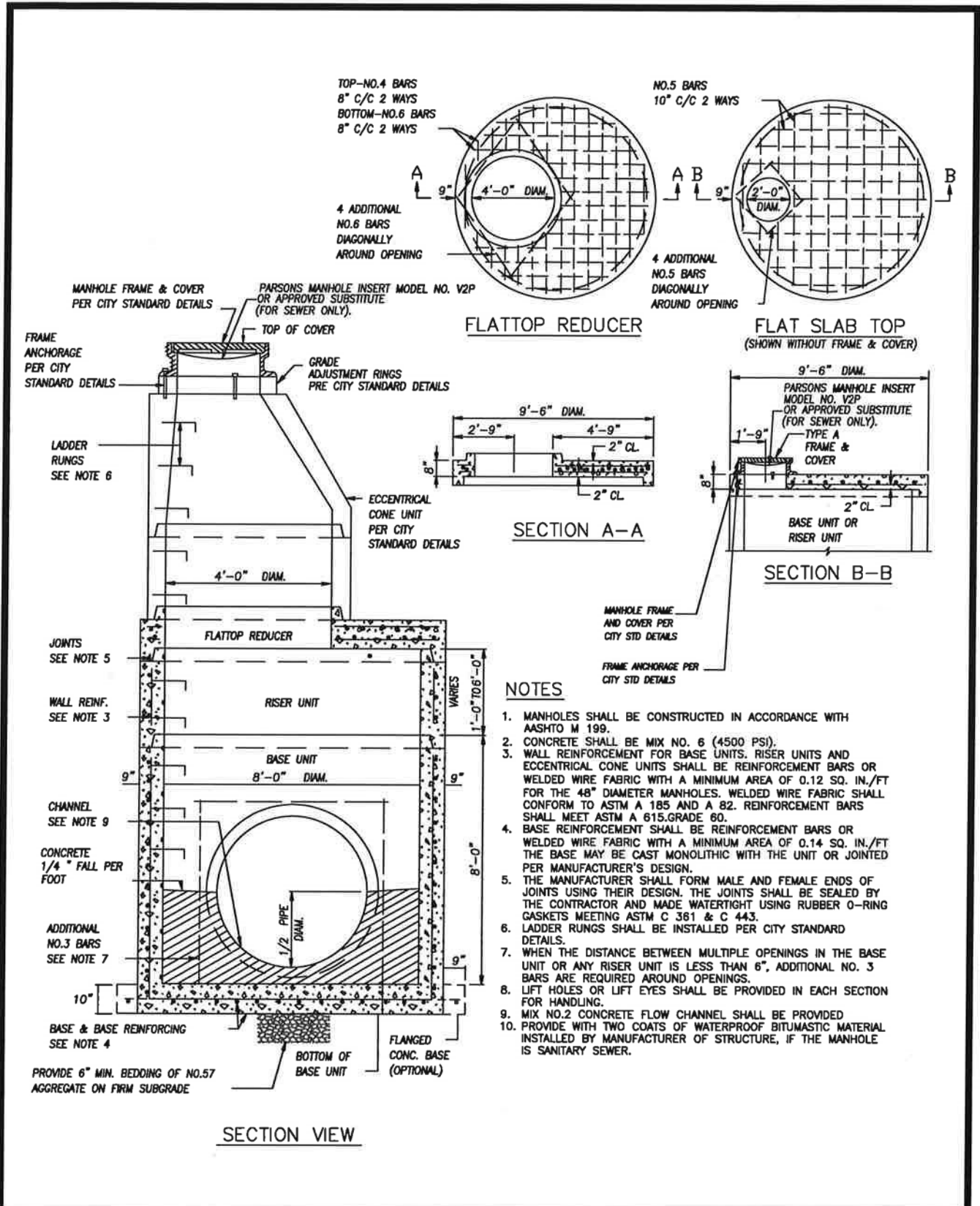
1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
3. WALL REINFORCEMENT FOR BASE UNITS, RISER UNITS AND ECCENTRIC CONE UNITS SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.12 SQ. IN./FT FOR THE 48" DIAMETER MANHOLES. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82. REINFORCEMENT BARS SHALL MEET ASTM A 615, GRADE 60.
4. BASE REINFORCEMENT SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.14 SQ. IN./FT THE BASE MAY BE CAST MONOLITHIC WITH THE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.
5. THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING RUBBER O-RING GASKETS MEETING ASTM C 361 & C 443.
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO.2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Bellach*  
CITY ENGINEER

84" DIAMETER  
MANHOLE  
FOR  
54" TO 60" PIPES

DATE 02/04/10  
SCALE N.T.S.  
DWG. NO. STD40016  
STD. NO. 400.16



TOP-NO.4 BARS  
8" C/C 2 WAYS  
BOTTOM-NO.6 BARS  
8" C/C 2 WAYS

NO.5 BARS  
10" C/C 2 WAYS

4 ADDITIONAL  
NO.6 BARS  
DIAGONALLY  
AROUND OPENING

4 ADDITIONAL  
NO.5 BARS  
DIAGONALLY  
AROUND OPENING

FLATTOP REDUCER

FLAT SLAB TOP  
(SHOWN WITHOUT FRAME & COVER)

SECTION A-A

SECTION B-B

SECTION VIEW

NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
3. WALL REINFORCEMENT FOR BASE UNITS, RISER UNITS AND ECCENTRICAL CONE UNITS SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.12 SQ. IN./FT FOR THE 48" DIAMETER MANHOLES. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82. REINFORCEMENT BARS SHALL MEET ASTM A 615.GRADE 60.
4. BASE REINFORCEMENT SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.14 SQ. IN./FT THE BASE MAY BE CAST MONOLITHIC WITH THE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.
5. THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING RUBBER O-RING GASKETS MEETING ASTM C 381 & C 443.
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO.2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

CITY OF  
SALISBURY  
SALISBURY, MD

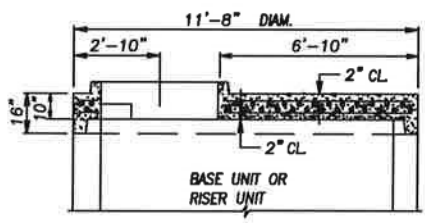
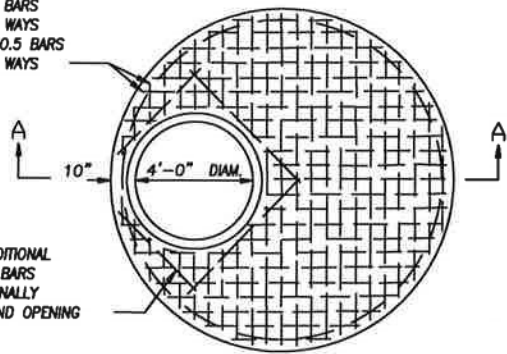
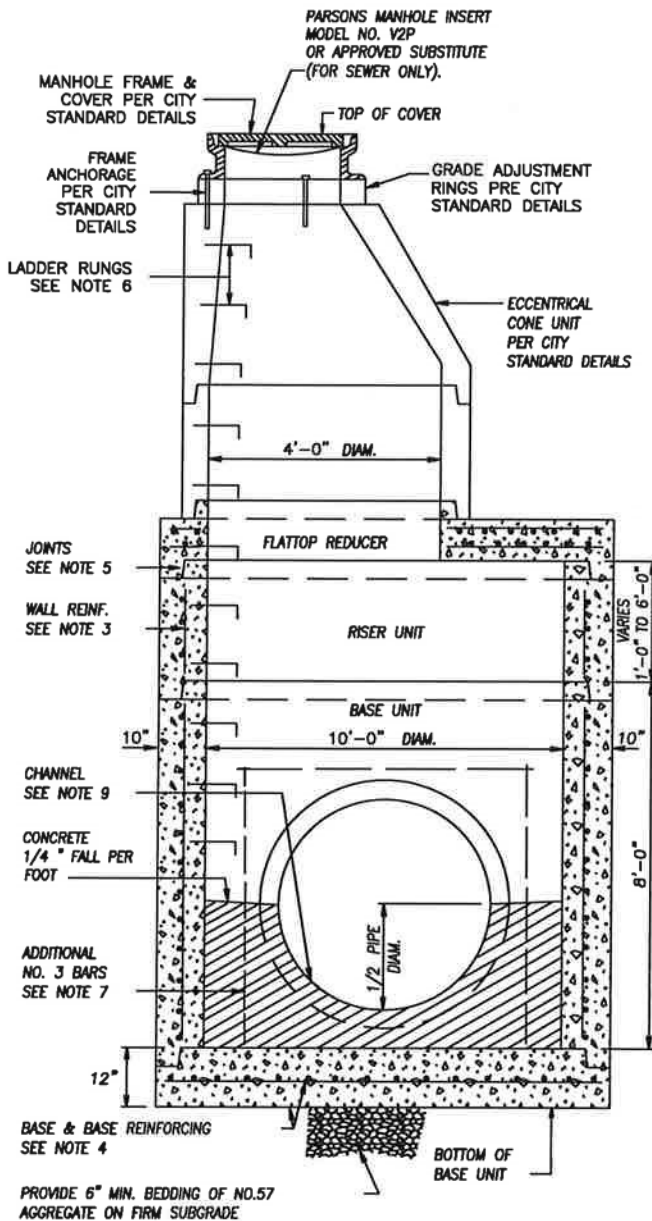
APPROVED  
1/2/18  
DATE  
*Amanda Black*  
CITY ENGINEER

90" DIAMETER  
MANHOLE  
FOR  
72" PIPES

DATE 02/04/10  
SCALE N.T.S.  
DWG. NO. STD40017  
STD. NO. 400.17

NOTE: SEE STD.MD 384.12  
FOR PRECAST FLAT SLAB TOP

TOP-NO.4 BARS  
6" C/C 2 WAYS  
BOTTOM-NO.5 BARS  
6" C/C 2 WAYS



FLATTOP REDUCER

SECTION A-A

NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
2. CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
3. WALL REINFORCEMENT FOR BASE UNITS, RISER UNITS AND ECCENTRICAL CONE UNITS SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.12 SQ. IN./FT FOR THE 48" DIAMETER MANHOLES. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82. REINFORCEMENT BARS SHALL MEET ASTM A 615.GRADE 60.
4. BASE REINFORCEMENT SHALL BE REINFORCEMENT BARS OR WELDED WIRE FABRIC WITH A MINIMUM AREA OF 0.14 SQ. IN./FT THE BASE MAY BE CAST MONOLITHIC WITH THE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.
5. THE MANUFACTURER SHALL FORM MALE AND FEMALE ENDS OF JOINTS USING THEIR DESIGN. THE JOINTS SHALL BE SEALED BY THE CONTRACTOR AND MADE WATERTIGHT USING RUBBER O-RING GASKETS MEETING ASTM C 361 & C 443.
6. LADDER RUNGS SHALL BE INSTALLED PER CITY STANDARD DETAILS.
7. WHEN THE DISTANCE BETWEEN MULTIPLE OPENINGS IN THE BASE UNIT OR ANY RISER UNIT IS LESS THAN 6", ADDITIONAL NO. 3 BARS ARE REQUIRED AROUND OPENINGS.
8. LIFT HOLES OR LIFT EYES SHALL BE PROVIDED IN EACH SECTION FOR HANDLING.
9. MIX NO.2 CONCRETE FLOW CHANNEL SHALL BE PROVIDED
10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

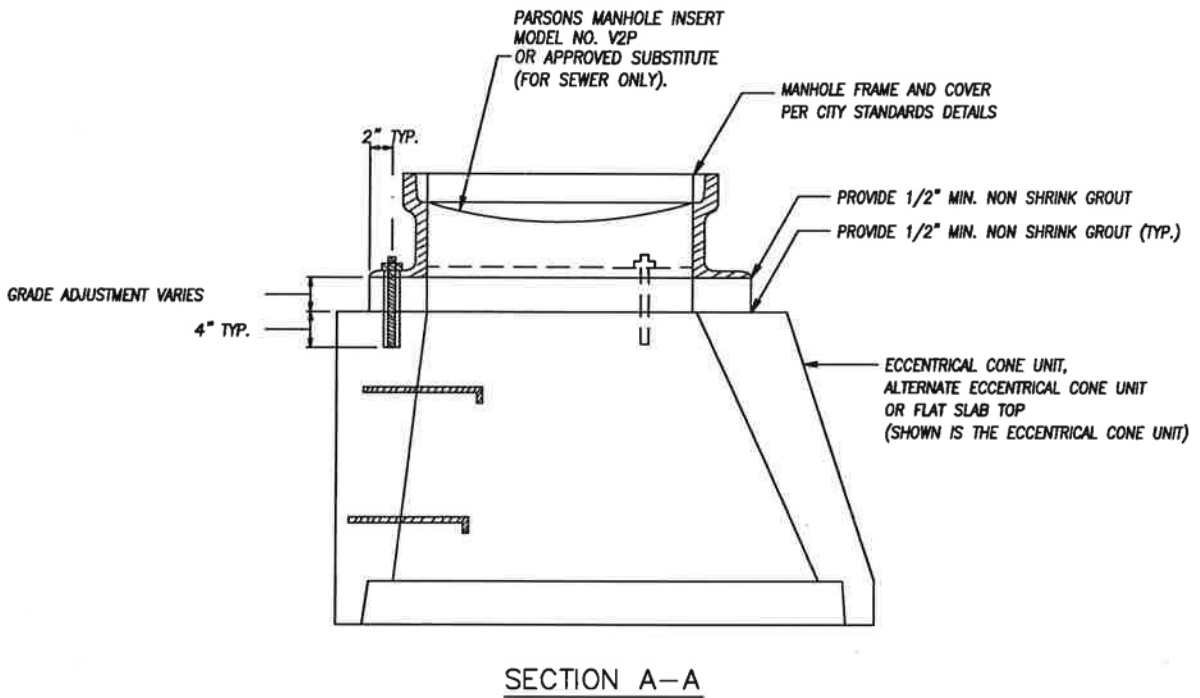
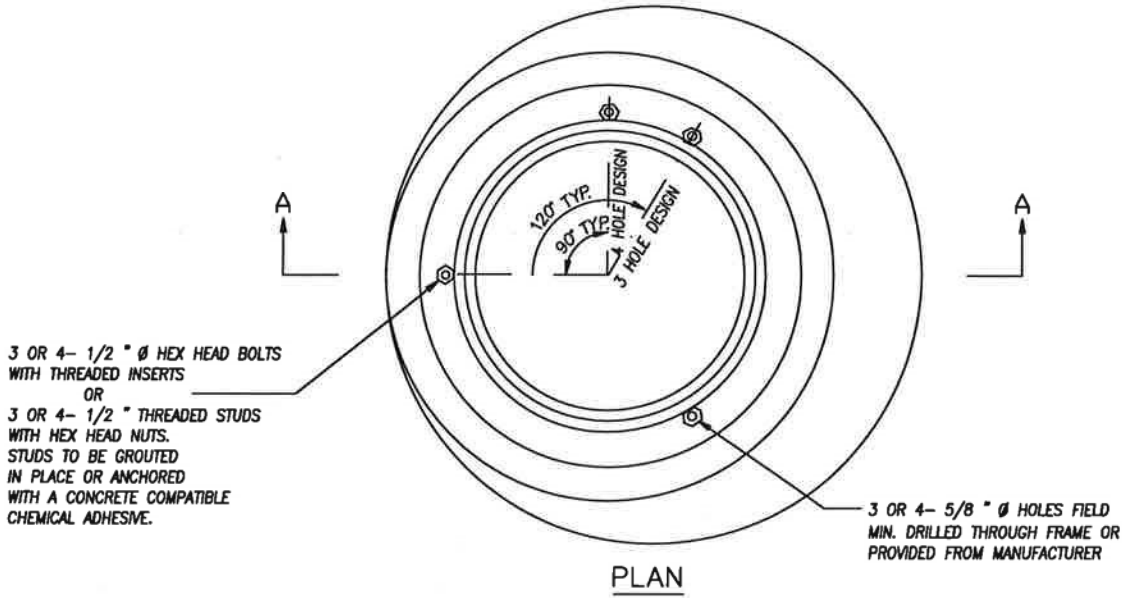
SECTION VIEW

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Pollack*  
CITY ENGINEER

120" DIAMETER MANHOLE  
FOR  
78" TO 84" PIPES

DATE	02/04/10
SCALE	N.T.S.
DWG. NO.	STD40018
STD. NO.	400.18

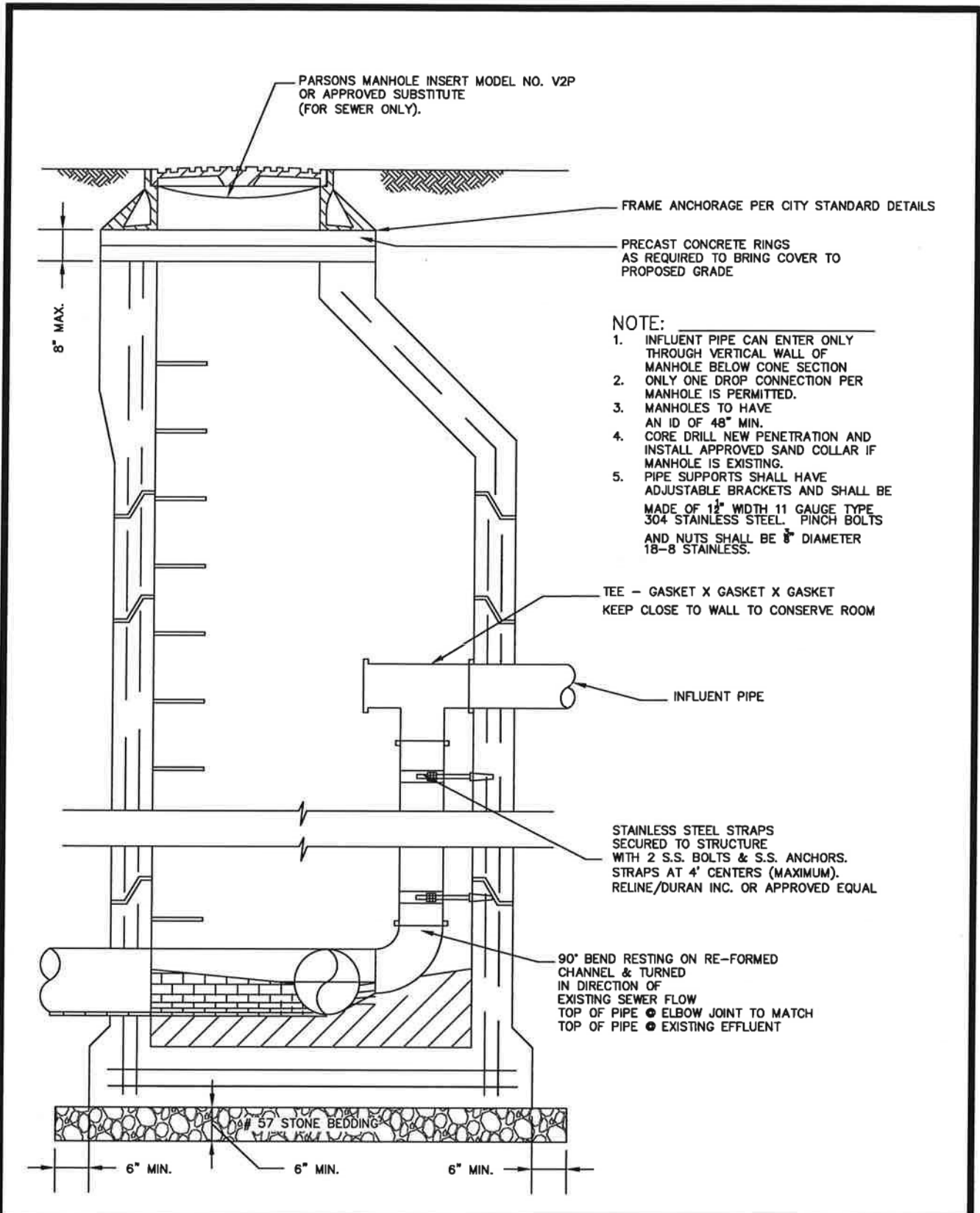


CITY OF SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

FRAME ANCHORAGE FOR PRECAST MANHOLES

DATE	02/04/10
SCALE	N.T.S.
DWG. NO.	STD40019
STD. NO.	400.19



CITY OF  
SALISBURY  
SALISBURY, MD

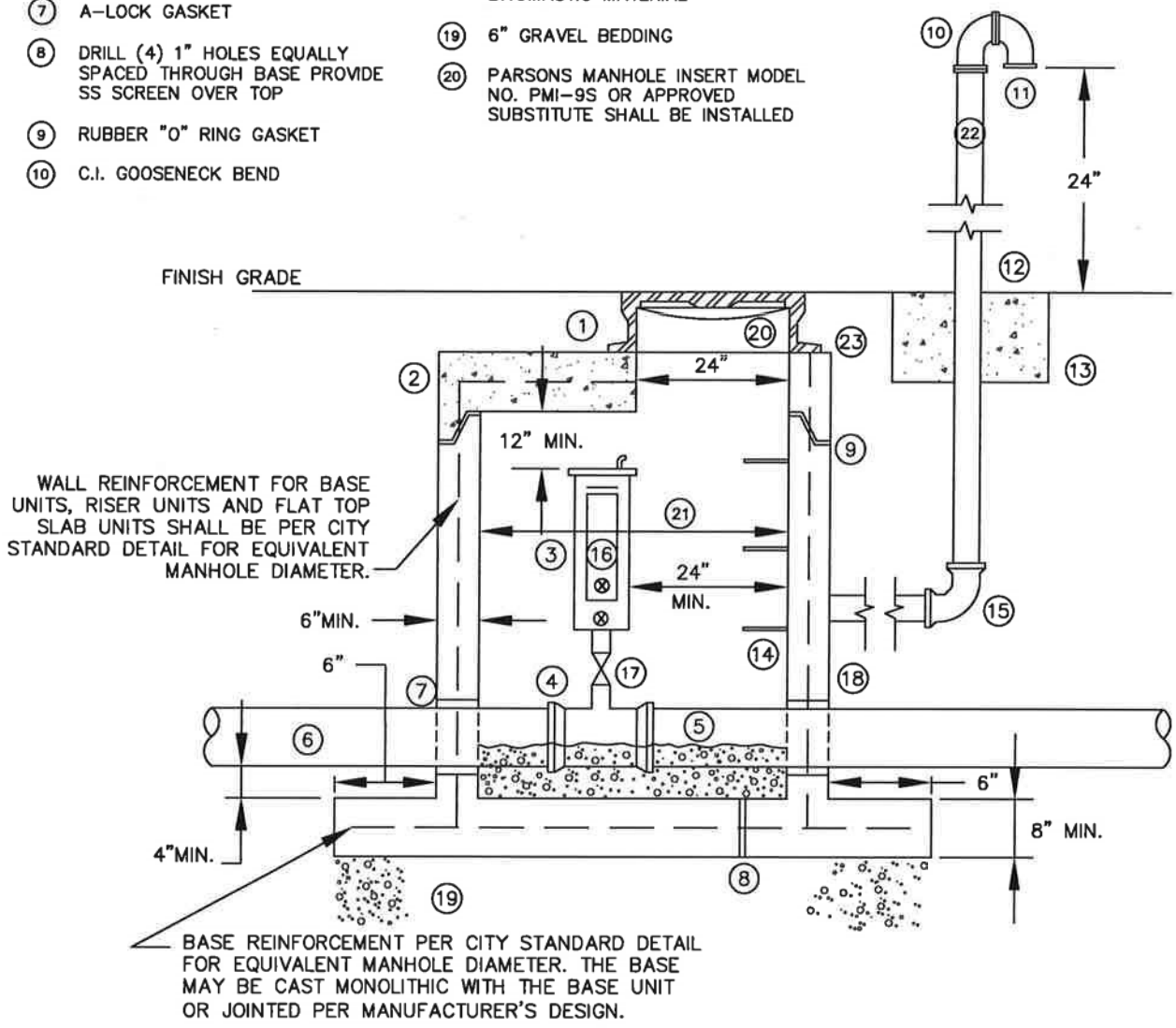
APPROVED  
*1/2/18*  
*Amanda Pollack*  
DATE  
CITY ENGINEER

INTERNAL DROP  
CONNECTION

DATE	8/11/86
SCALE	NONE
DWG. NO.	STD40023
STD. NO.	400.23

- ① FRAME, COVER, AND FRAME ANCHORAGE PER CITY STANDARD DETAILS
- ② REINFORCED CONCRETE SLAB. SEE CITY STANDARD DETAIL FOR EQUIVALENT MANHOLE DIAMETER.
- ③ SEWAGE COMBINATION AIR RELEASE 8 VACUUM VALVE
- ④ TAPPED TEE AS REQUIRED
- ⑤ WASHED GRAVEL FILL TO SPRING LINE
- ⑥ FORCE MAIN
- ⑦ A-LOCK GASKET
- ⑧ DRILL (4) 1" HOLES EQUALLY SPACED THROUGH BASE PROVIDE SS SCREEN OVER TOP
- ⑨ RUBBER "O" RING GASKET
- ⑩ C.I. GOOSENECK BEND
- ⑪ 1/4" MESH ALUM. SCREEN COVER
- ⑫ D.I. VENT SHOWN OUT OF POSITION FOR CLARITY
- ⑬ 4000 P.S.I. CONCRETE 24"x 24" x 12"
- ⑭ STEPS PER CITY STANDARD DETAILS
- ⑮ C.I. MECH. VERT. 90° BEND
- ⑯ BLOW-OFF VALVE
- ⑰ SHUTOFF VALVE
- ⑱ 2 COATS WATERPROOF BITUMASTIC MATERIAL
- ⑲ 6" GRAVEL BEDDING
- ⑳ PARSONS MANHOLE INSERT MODEL NO. PMI-9S OR APPROVED SUBSTITUTE SHALL BE INSTALLED
- ㉑ MIN. 6' DIA PRECAST STRUCTURE
- ㉒ MIN. 4" DIA. PIPE
- ㉓ FRAME ANCHORAGE PER CITY STANDARD DETAILS

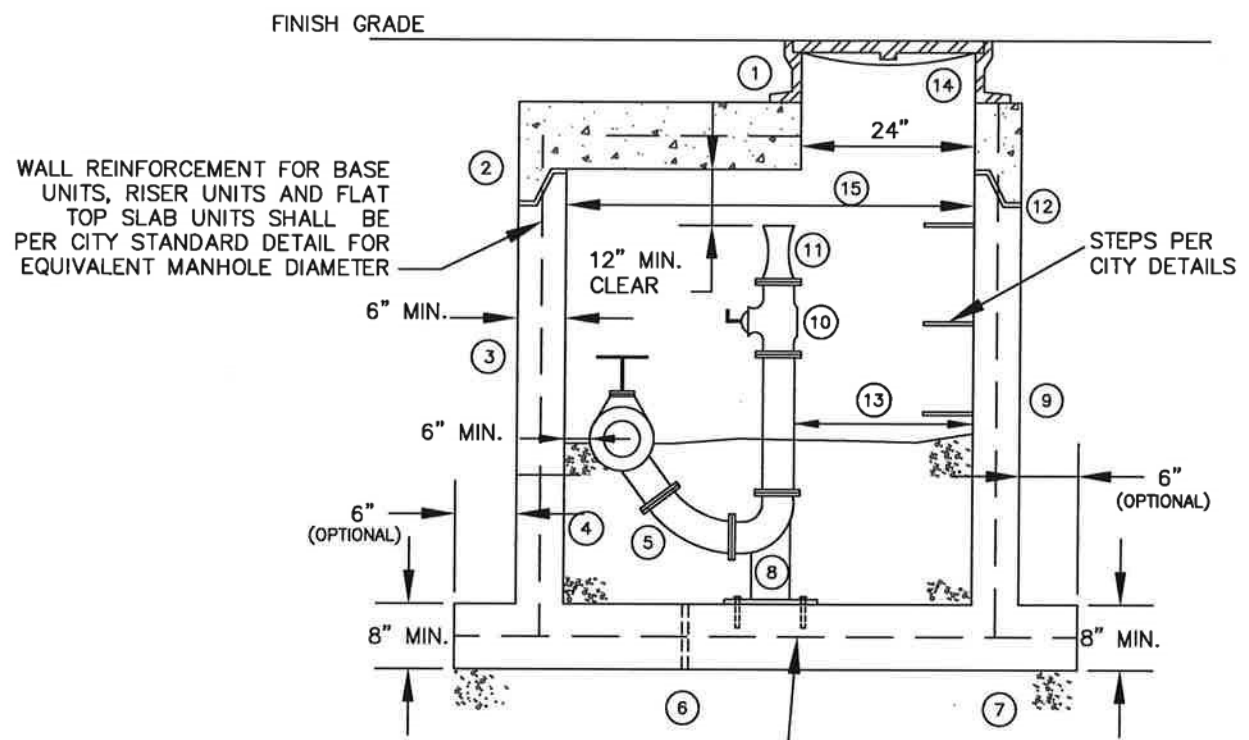
NOTES:  
 MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.  
 CONCRETE SHALL BE MIX NO. 6 (4500 PSI).



<b>CITY OF SALISBURY</b> SALISBURY, MD	APPROVED	<b>FORCE MAIN AIR VALVE ACCESS MANHOLE</b>	DATE 04/05/89
	1/2/18		SCALE SCALE
	Amanda Pollack CITY ENGINEER		DWG. NO. STD40026
			STD. NO. 400.26

- ① FRAME, COVER, AND FRAME ANCHORAGE PER CITY STANDARD DETAILS
- ② REINFORCED CONCRETE SLAB. SEE CITY STANDARD DETAIL FOR EQUIVALENT MANHOLE DIAMETER.
- ③ 2 COATS WATERPROOF BITUMASTIC MATERIAL
- ④ WASHED GRAVEL FILL TO SPRING LINE OF FORCE MAIN
- ⑤ 45° BEND
- ⑥ DRILL (4) 1" HOLES EQUALLY SPACED THROUGH BASE. PROVIDE SS SCREEN OVER TOP
- ⑦ 6" GRAVEL BEDDING
- ⑧ 90° BEND W/DRILLED BASE ANCHORED TO MANHOLE BASE W/ 3/4"φ SS BOLTS
- ⑨ CONCRETE SHALL BE MIX NO. 6 (4500 PSI).
- ⑩ PLUG VALVE WITH LEVER OPERATOR
- ⑪ QUICK DISCONNECT FITTING AND CAP
- ⑫ RUBBER "O" RING GASKET
- ⑬ POSITION PLUG VALVE AND RISER ASSEMBLY TO PROVIDE MIN. 24" CLEARANCE FROM MANHOLE OPENING TO INVERT OF STRUCTURE.
- ⑭ PARSONS MANHOLE INSERT MODEL NO. PMI-9S OR APPROVED SUBSTITUTE SHALL BE INSTALLED
- ⑮ MIN. 6' DIA PRECAST STRUCTURE

**NOTES:**  
 MANHOLE STEPS PER CITY STANDARD DETAILS.  
 MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.



WALL REINFORCEMENT FOR BASE UNITS, RISER UNITS AND FLAT TOP SLAB UNITS SHALL BE PER CITY STANDARD DETAIL FOR EQUIVALENT MANHOLE DIAMETER

BASE REINFORCEMENT PER CITY STANDARD DETAIL FOR EQUIVALENT MANHOLE DIAMETER. THE BASE MAY BE CAST MONOLITHIC WITH THE BASE UNIT OR JOINTED PER MANUFACTURER'S DESIGN.

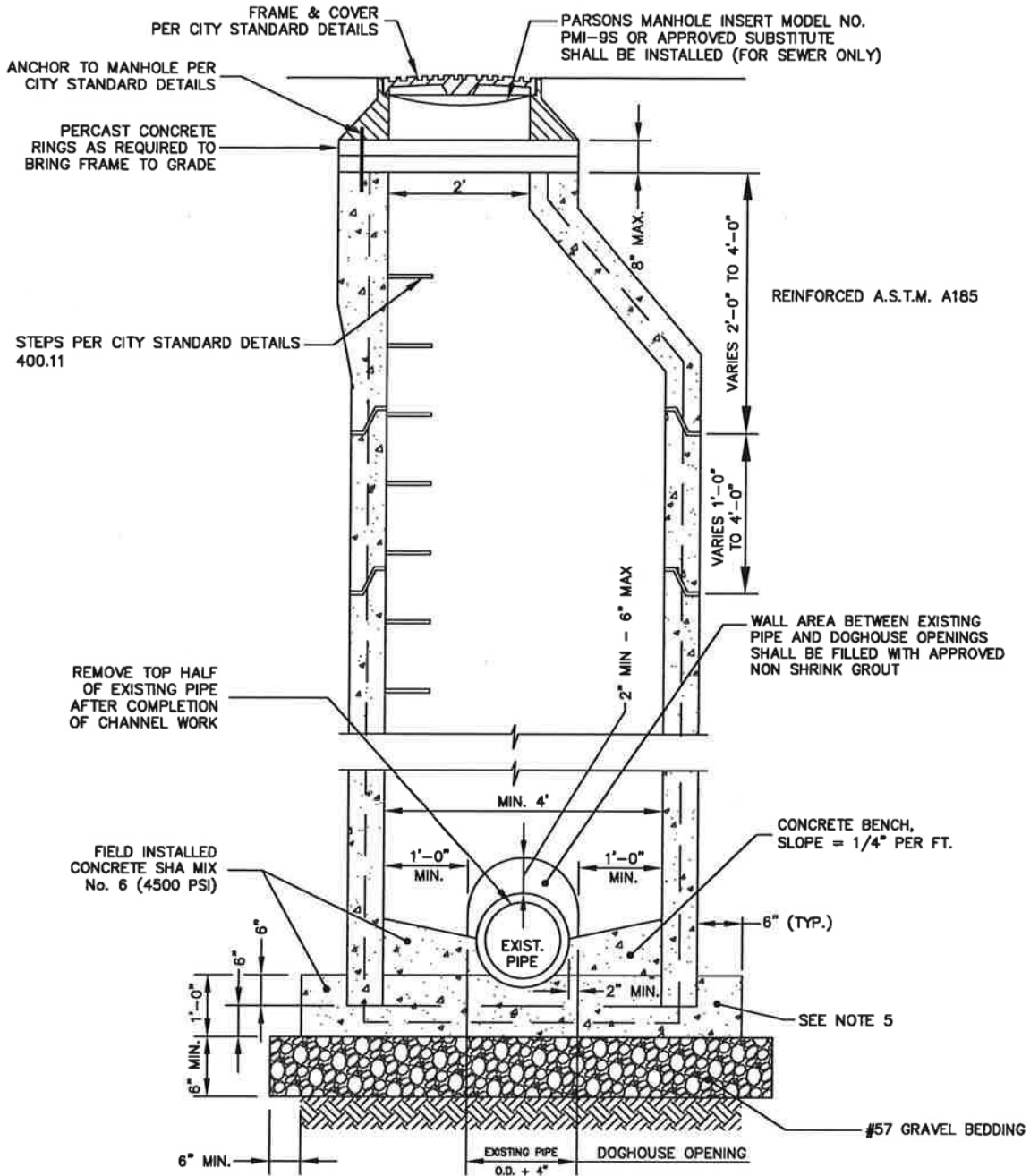
CITY OF SALISBURY  
 SALISBURY, MD

APPROVED  
 1/2/18  
 Amanda Pollack  
 CITY ENGINEER

**FORCE MAIN ACCESS MANHOLE**

DATE	03/31/99
SCALE	NONE
DWG. NO.	STD40027
STD. NO.	400.27





**NOTE:**  
 MANHOLE SIZE MAY VARY  
 ACCORDING TO THE SIZE  
 (O.D.) OF PIPE COMING INTO  
 OR LEAVING THE MANHOLE.  
 SEE APPROPRIATE STANDARD  
 DETAIL.

**NOTES:**

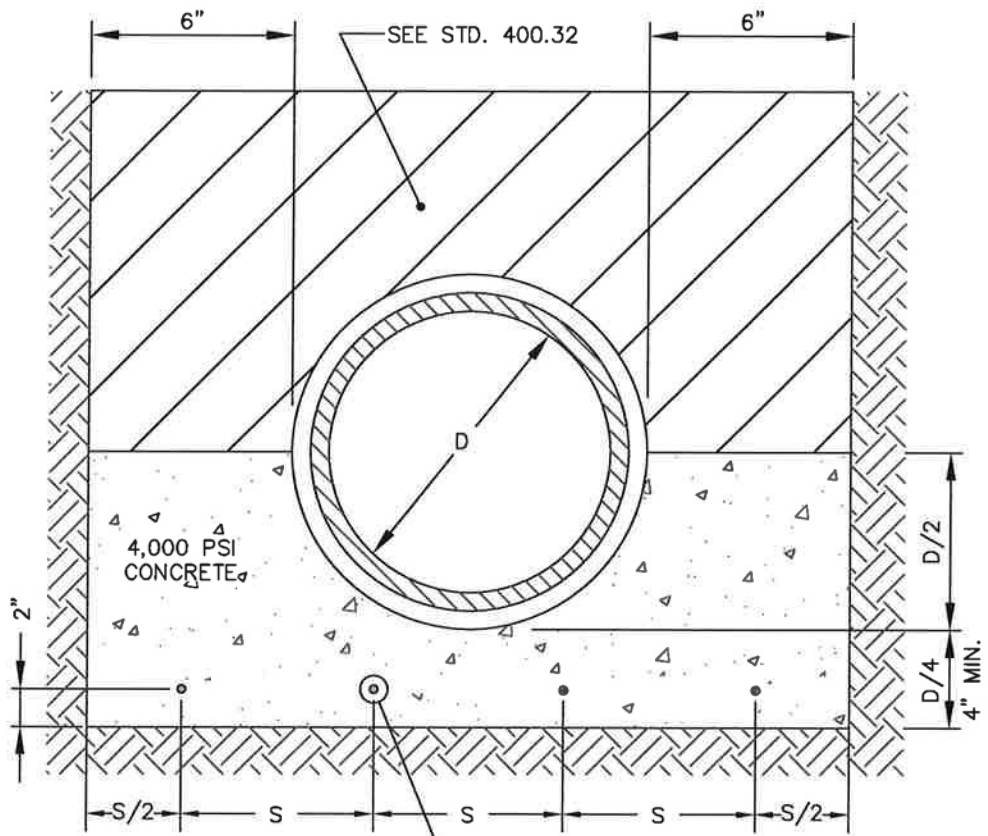
1. IF EXISTING PIPE IS TERRA COTTA: PRIOR TO INSTALLING MANHOLE, REMOVE PIPE FROM 10' EACH WAY OF  $\phi$  MANHOLE (20' TOTAL LENGTH) AND REPLACE WITH SDR-35 OF SAME ID AND JOIN WITH FERRO COUPLINGS. SDR-35 PIPE SHALL BE INSTALLED WITH 12" THICK # 57 STONE BEDDING EXTENDING TO SPRINGLINE OF PIPE.
2. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
3. PIPE JOINTS ARE NOT PERMITTED WITHIN THE INTERIOR OF ANY DOGHOUSE MANHOLE.
4. PIPE JOINTS ARE NOT PERMITTED WITHIN 2' OF ANY EXTERIOR WALL OF ANY DOGHOUSE MANHOLE
5. BASE REINFORCEMENT SHALL BE #4 BARS 6" OC/EW, 2" CLEAR FROM ALL EDGES.

CITY OF  
 SALISBURY  
 SALISBURY, MD

APPROVED  
 1/2/18  
 Amanda Pellach  
 CITY ENGINEER

STANDARD DOGHOUSE  
 MANHOLE  
 SEWER & STORM WATER

DATE	6/11/86
SCALE	NONE
DWG. NO.	STD40028
STD. NO.	400.28



FOUR NO. 6 REBARS SPACED AS SHOWN  
REQUIRED ONLY WHEN SPECIFIED.

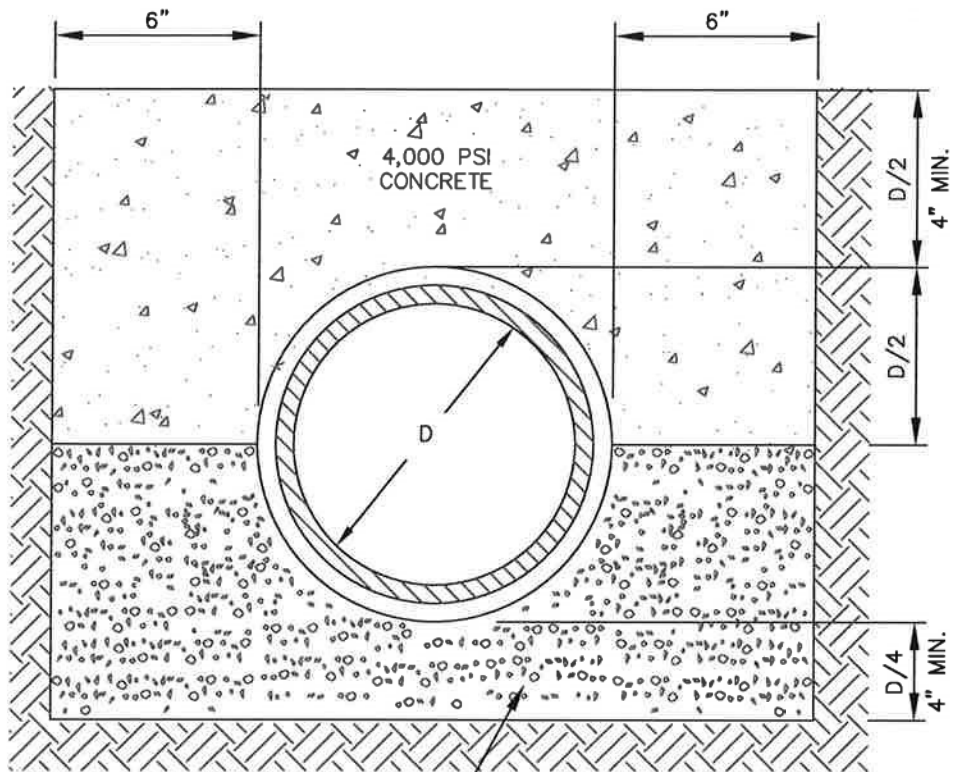
$$S = \frac{D+12''}{4}$$

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
*Amanda Pollock*  
DATE  
CITY ENGINEER

CONCRETE CRADLE  
SANITARY SEWER OR  
STORMWATER DRAINS

DATE 08/29/86  
SCALE NONE  
DWG. NO. STD40030  
STD. NO. 400.30



APPROVED  
GRAVEL  
BEDDING

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED

1/2/18

DATE

*Amanda Pollock*  
CITY ENGINEER

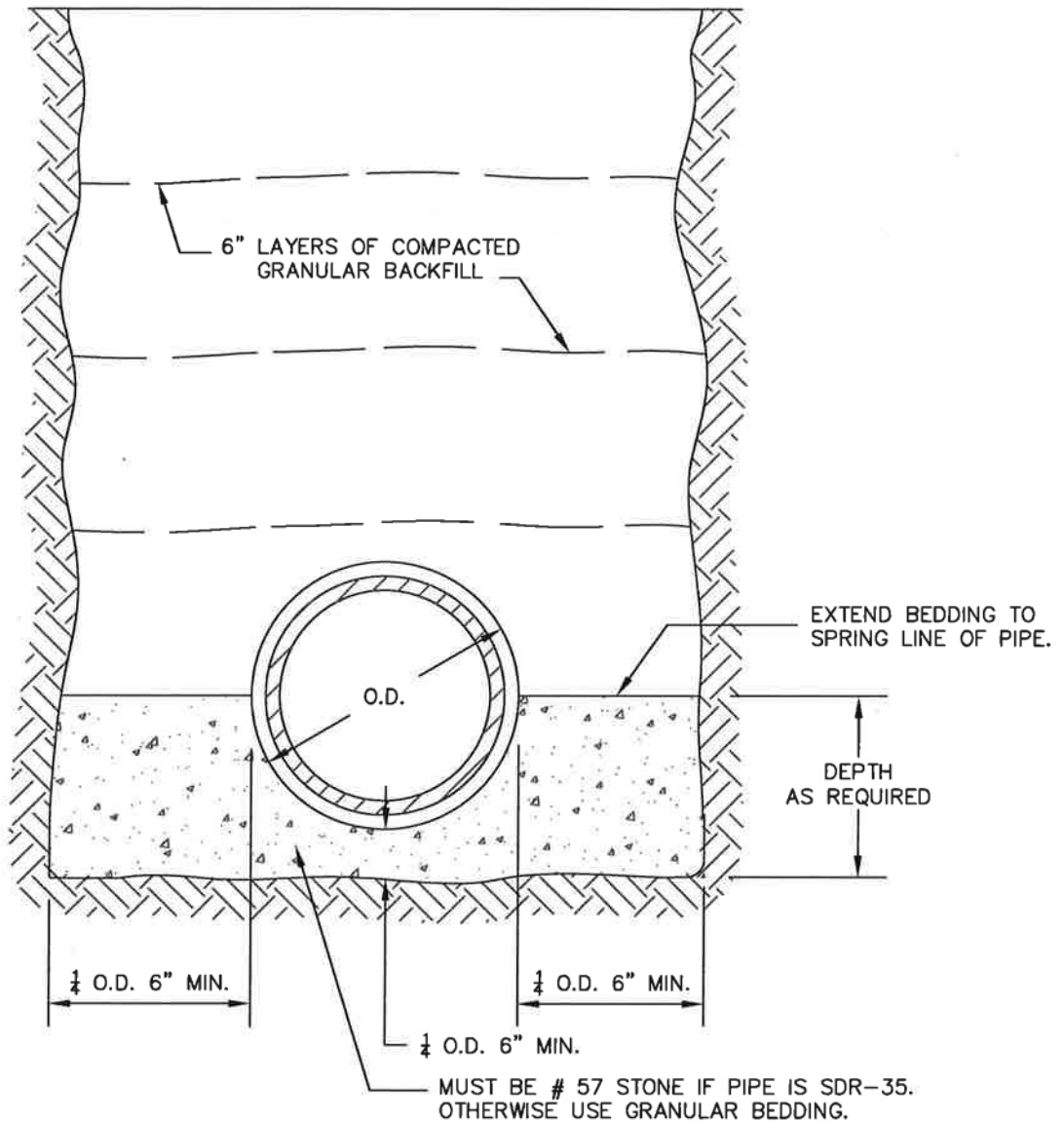
CONCRETE ARCH  
SANITARY SEWERS OR  
STORMWATER DRAINS

DATE 08/29/86

SCALE NONE

DWG. NO. STD40031

STD. NO. 400.31



NOTES:

1. TRENCH WIDTH WILL GOVERN PAYMENT FOR REPAVING, BACKFILL, ETC.. UNLESS OTHERWISE SPECIFIED.
2. THE CITY RESERVES THE RIGHT TO INCREASE, DECREASE OR ENTIRELY EXCLUDE THE GRANULAR BEDDING AS DIRECTED BY THE ENGINEER. WHEN GRANULAR BEDDING IS NOT USED, BACKFILL SHALL BE TAMPED AROUND PIPE HAUNCHES TO PROVIDE SOLID AND STABLE BEDDING.
3. 97% OF MAX. SOIL DENSITY REQUIRED ON TOP 1' OF STREET SUBGRADE  
95% OF MAX. SOIL DENSITY REQUIRED BELOW TOP 1' OF STREET SUBGRADE
4. THIS DETAIL APPLIES TO ALL PUBLIC SEWER, WATER, AND STORM WATER MAINS AND LATERALS.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED

1/2/18

*Amanda Belack* DATE  
CITY ENGINEER

TYPICAL DETAIL  
PIPE TRENCH & BEDDING

DATE 8/29/86

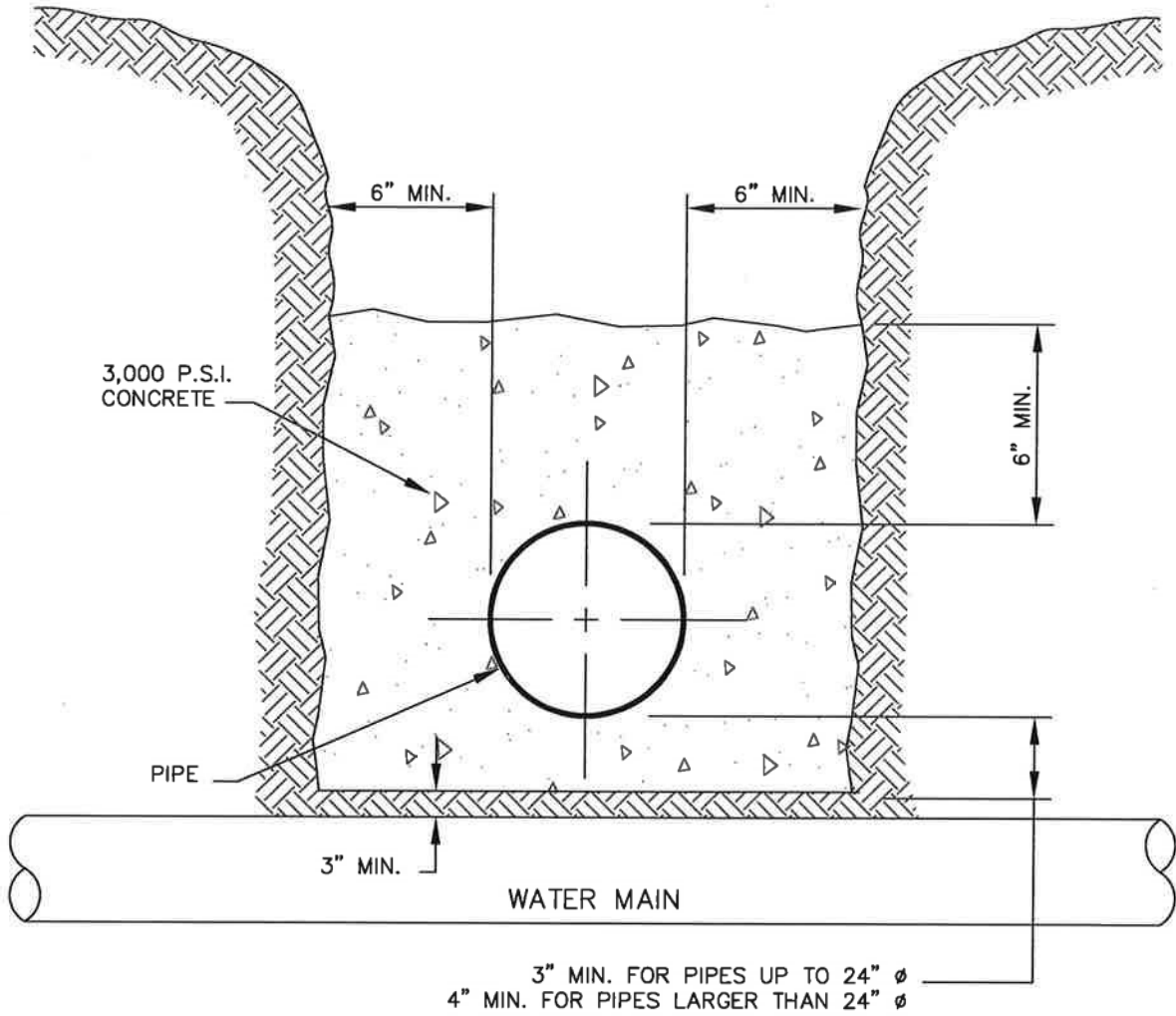
SCALE NONE

DWG. NO. STD40032

STD. NO. 400.32

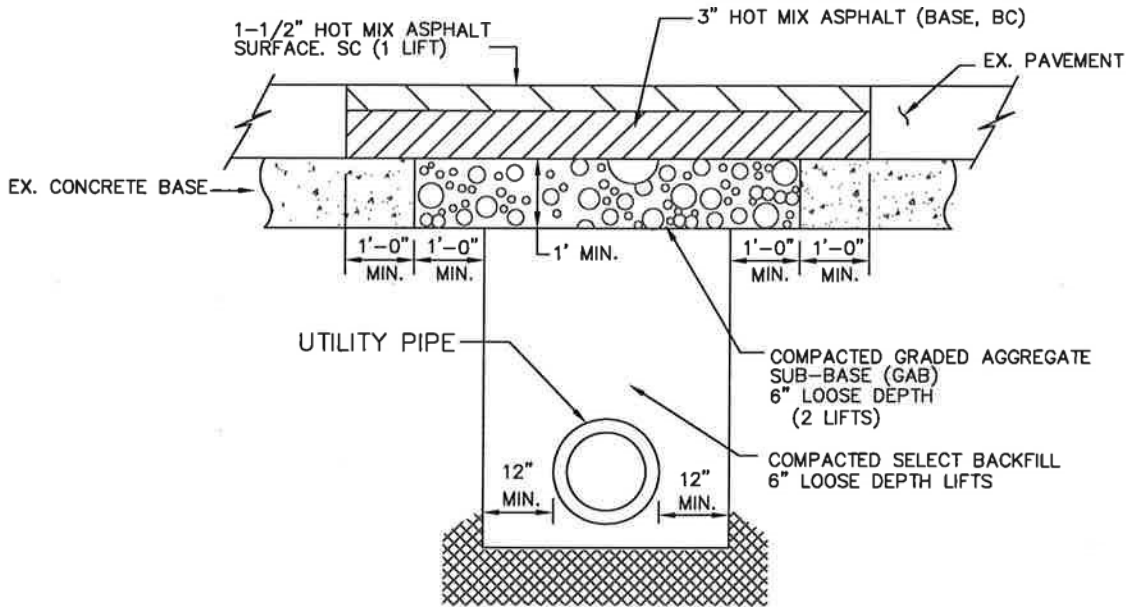
NOTES:

1. ENCASEMENT REQUIRED IF SEWER IS ABOVE WATER MAIN.
2. IF GREATER THAN 12" OF CLEARANCE BELOW WATER MAIN, NO ENCASEMENT NECESSARY. SEE DG5 I 1A.
3. EXTEND ENCASEMENT 10' EITHER SIDE OF WATER MAIN CROSSING.



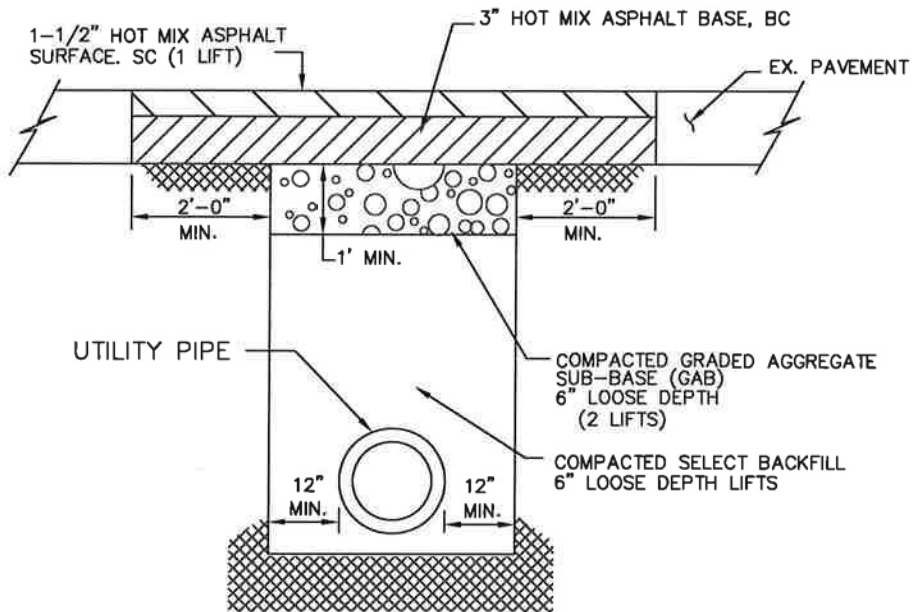
3" MIN. FOR PIPES UP TO 24"  $\phi$   
 4" MIN. FOR PIPES LARGER THAN 24"  $\phi$

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/2/18 Amanda Pollace CITY ENGINEER	SANITARY SEWER ENCASEMENT DETAIL	DATE 02/06/08
	DATE		SCALE NONE
	STD. NO. 400.33		DWG. NO. STD40033
	CITY ENGINEER		STD. NO. 400.33



**TYPICAL TRENCH REPAIR  
ROADS WITH CONCRETE BASE**

TYPICAL NOTE FOR STD.400.35:  
A TEMPORARY LAYER OF 1-1/2" HOT MIX ASPHALT (BASE, BC) OR COLD PATCH SHALL BE PLACED IN ALL DISTURBED AREA BY THE END OF THAT CURRENT DAYS' WORK, UNTIL FINAL DETAIL IS INSTALLED.



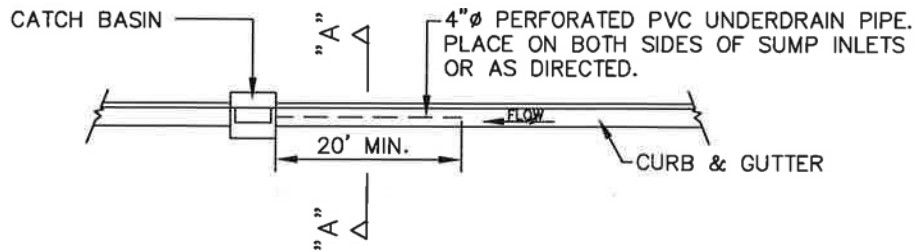
**TYPICAL TRENCH REPAIR (ROADS WITH BITUMINOUS  
CONCRETE SURFACE AND BITUMINOUS CONCRETE BASE)**

CITY OF  
SALISBURY  
SALISBURY, MD

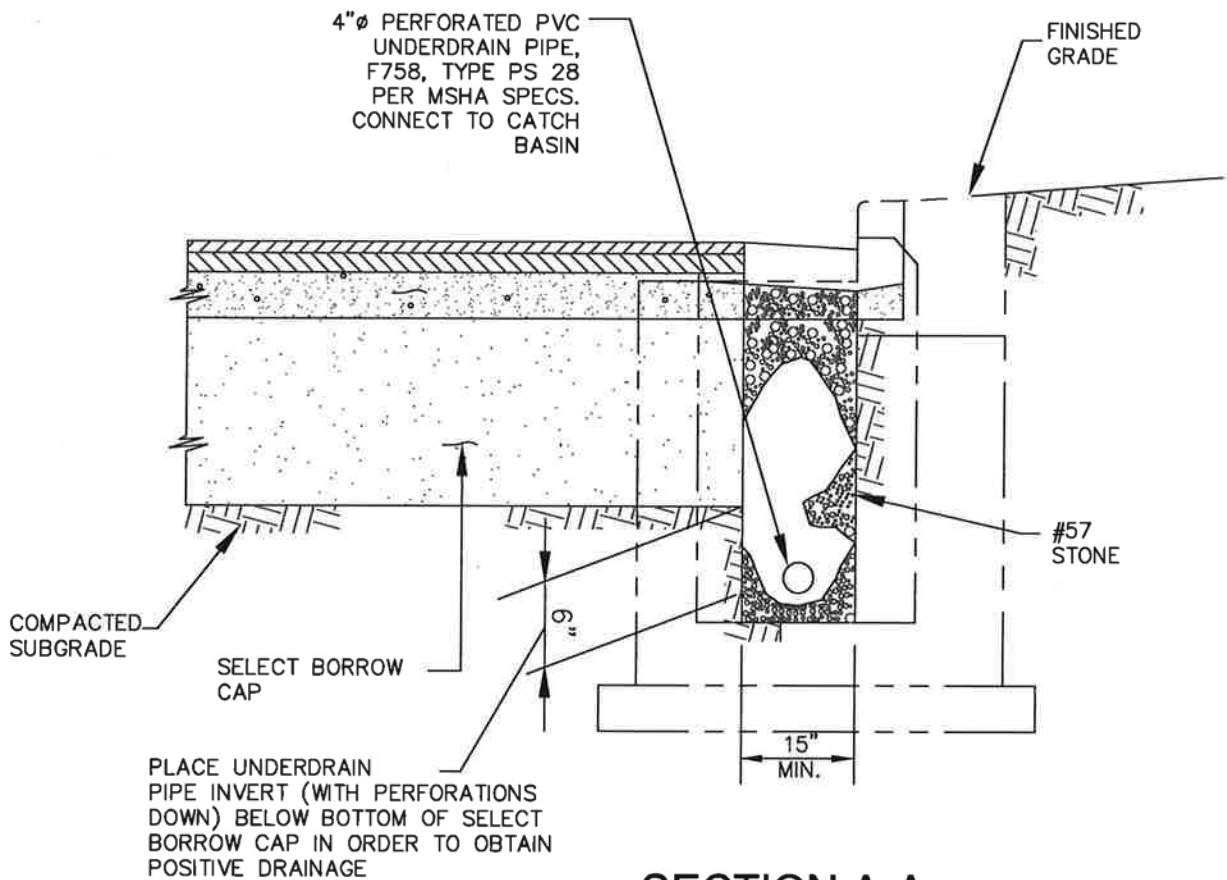
APPROVED  
*1/2/18*  
*Amanda Pollack* DATE  
CITY ENGINEER

**UTILITY TRENCH  
REPAIR DETAILS**

DATE 10/29/98  
SCALE NONE  
DWG. NO. STD40035  
STD. NO. 400.35



**PLAN**  
SCALE: 1"=20'



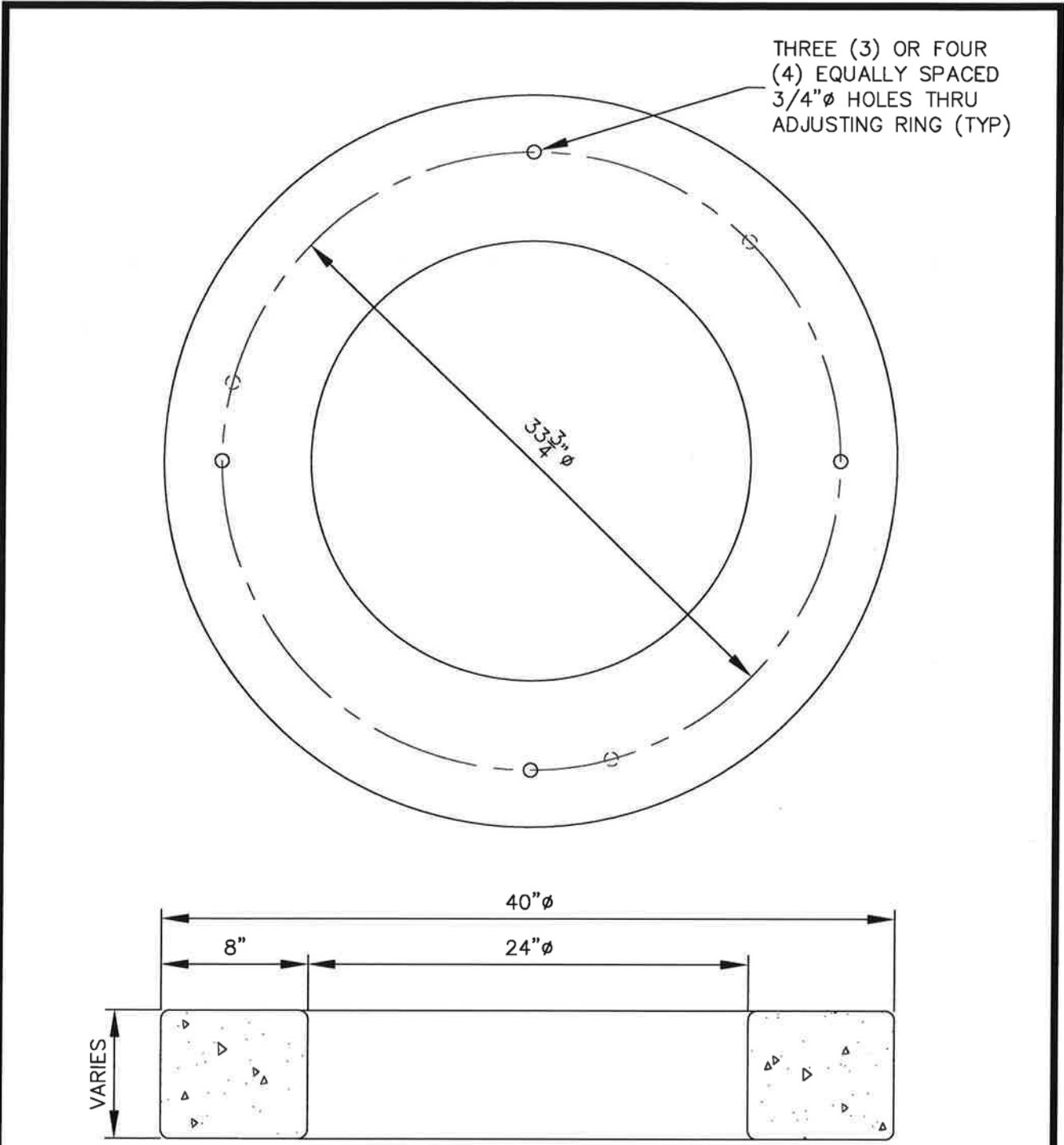
**SECTION A-A**  
SCALE: 1"=2'

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
*Amanda Pollack* DATE  
CITY ENGINEER

SUBGRADE  
DETAIL

DATE 06/02/01  
SCALE NONE  
DWG. NO. STD40036  
STD. NO. 400.36

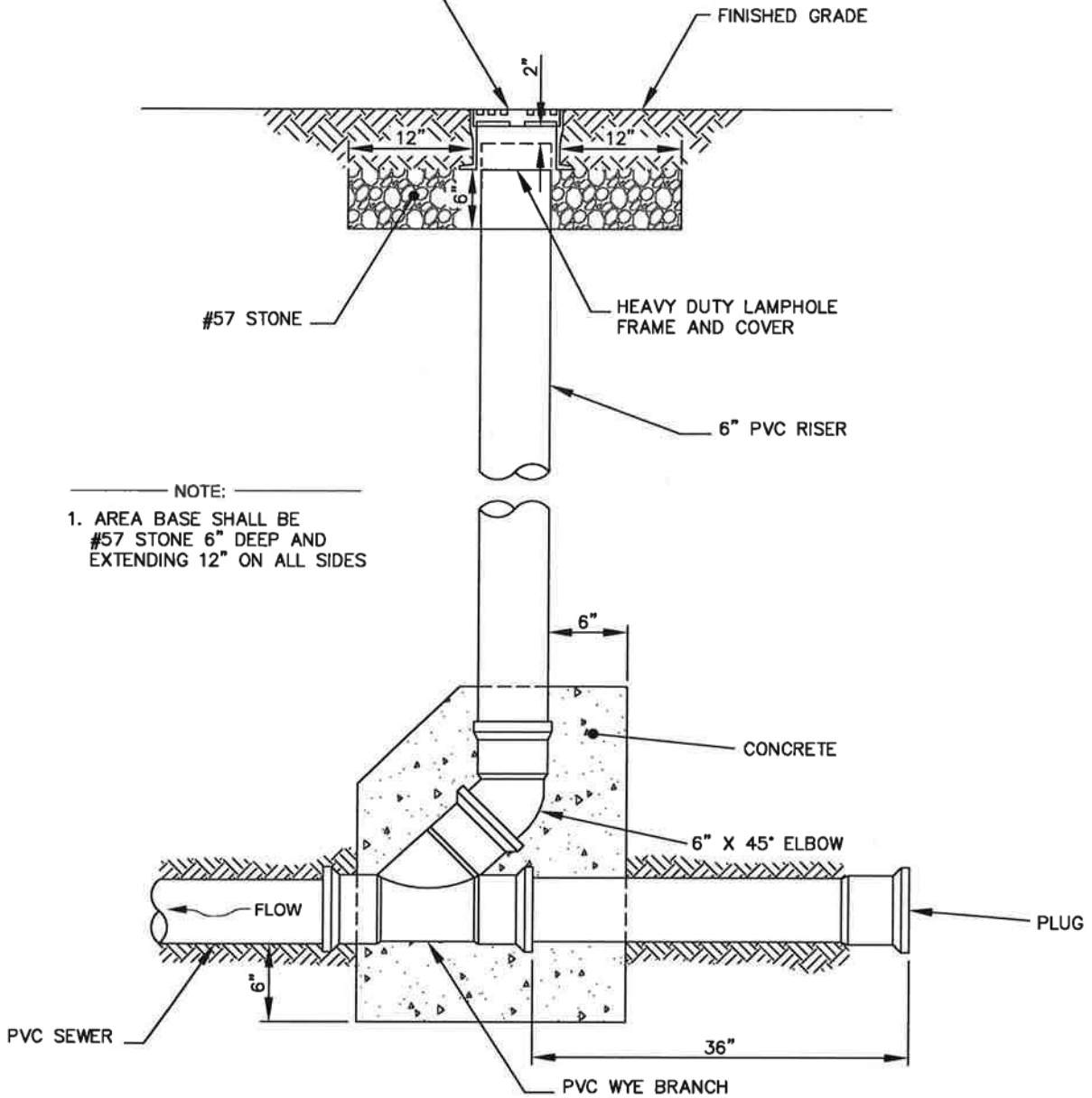


- NOTES:**
1. DESIGNED FOR H-20 WHEEL LOADING
  2. CONFORMS TO ASTM C-478 SPECIFICATIONS
  3. REINFORCED TO 0.12 IN<sup>2</sup>/LF

CITY OF SALISBURY SALISBURY, MD	APPROVED <i>1/2/18</i> <i>Amanda Pollack</i> CITY ENGINEER	<b>STANDARD PRECAST          CONCRETE ADJUSTING          RINGS</b>	DATE 01/01/17
	DATE		SCALE NONE
	DWG. NO. STD40038		STD. NO. 400.38
	CITY ENGINEER		



EAST JORDAN IRON WORKS  
 FRAME #1578Z  
 COVER #1578A  
 NEENAH FOUNDRY  
 #R-1976



NOTE:  
 1. AREA BASE SHALL BE #57 STONE 6\"/>

CLEANOUTS INSTALLED IN DRIVEWAYS AND UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE CLEANOUT CAP. THE COLLAR SHALL BE 6\"/>

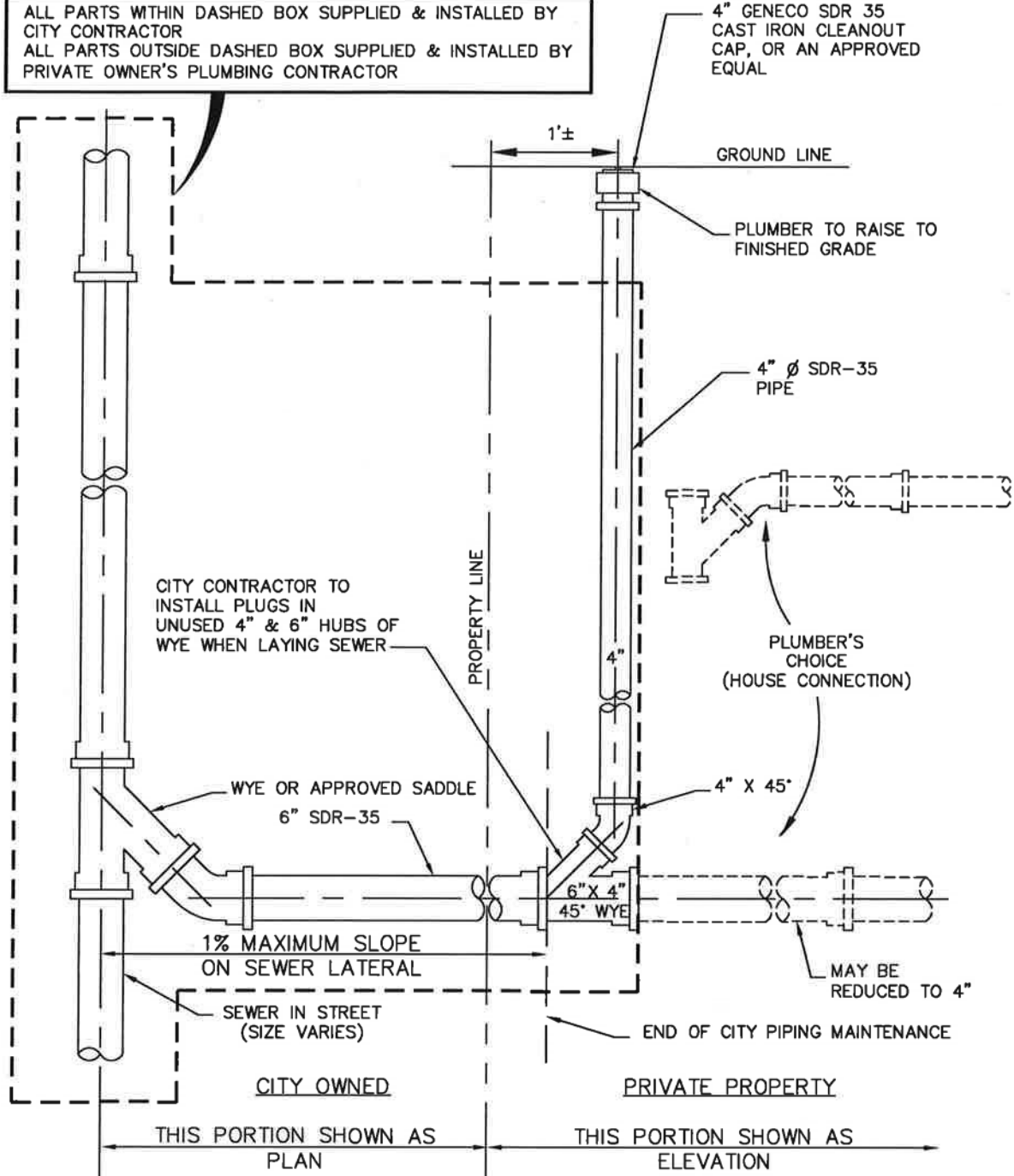
CITY OF  
 SALISBURY  
 SALISBURY, MD

APPROVED  
 1/2/18  
 Amanda Bellack  
 CITY ENGINEER

STANDARD CLEANOUT  
 FOR SEWER LINES  
 IN CITY STREETS

DATE 03/30/94  
 SCALE NONE  
 DWG. NO. STD40040  
 STD. NO. 400.40

ALL PARTS WITHIN DASHED BOX SUPPLIED & INSTALLED BY CITY CONTRACTOR  
 ALL PARTS OUTSIDE DASHED BOX SUPPLIED & INSTALLED BY PRIVATE OWNER'S PLUMBING CONTRACTOR



CLEANOUTS INSTALLED IN DRIVEWAYS AND UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE CLEANOUT CAP. THE COLLAR SHALL BE 6" THICK AND BE SUPPORTED BY A 6" BASE OF CR-6 AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. CONCRETE COLLARS SHALL BE INSTALLED AFTER THE TOP OF THE CLEANOUT CAPS ARE ADJUSTED TO FINISHED GRADE.

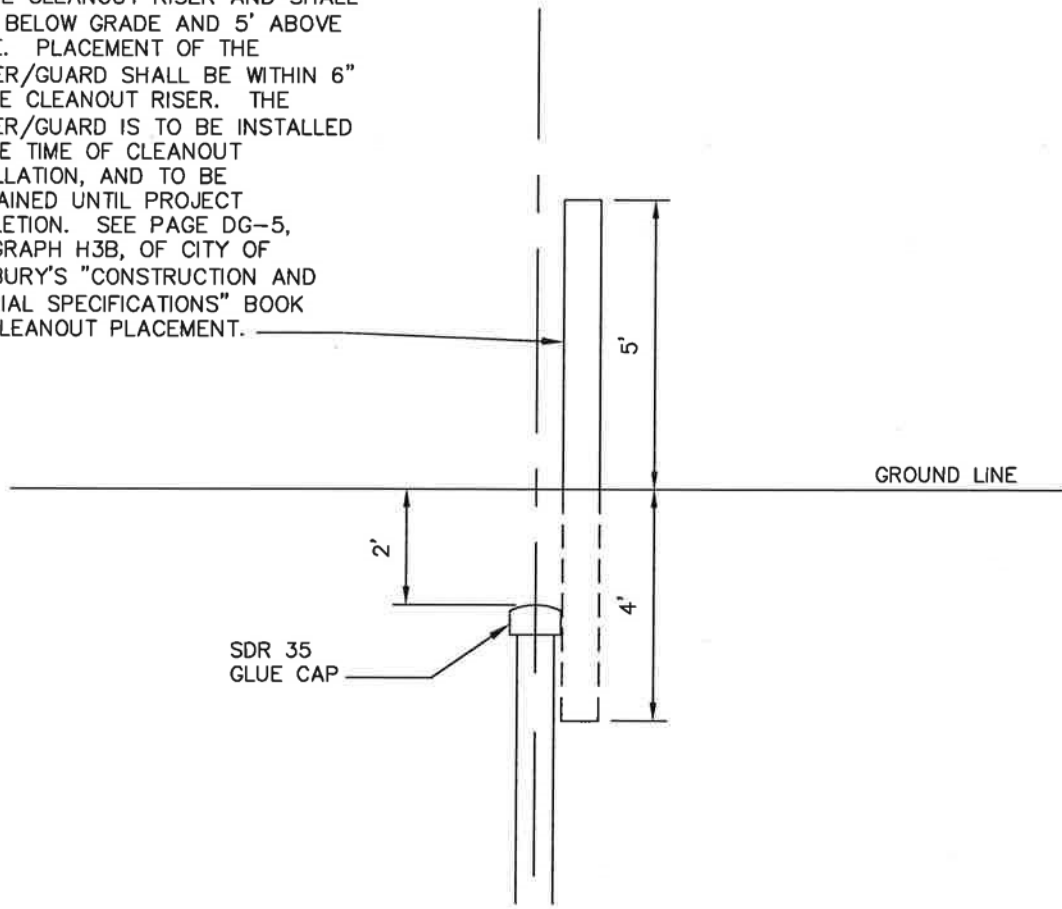
CITY OF  
 SALISBURY  
 SALISBURY, MD

APPROVED  
 1/2/18  
 Amanda Pollack  
 CITY ENGINEER

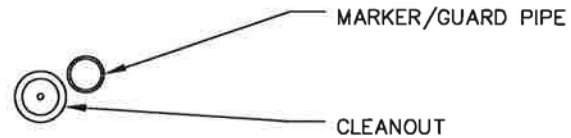
STANDARD HOUSE SERVICE  
 SEWER CONNECTION  
 USING PLASTIC PIPE W/  
 EXISTING SEWER MAIN

DATE	6/28/06
SCALE	NONE
DWG. NO.	STD40042
STD. NO.	400.42

SANITARY SEWER CLEANOUTS SHALL BE GUARDED BY A MARKER/GUARD PIPE. THE MARKER/GUARD PIPE SHALL BE THE SAME SIZE AND TYPE AS THE CLEANOUT RISER AND SHALL BE 4' BELOW GRADE AND 5' ABOVE GRADE. PLACEMENT OF THE MARKER/GUARD SHALL BE WITHIN 6" OF THE CLEANOUT RISER. THE MARKER/GUARD IS TO BE INSTALLED AT THE TIME OF CLEANOUT INSTALLATION, AND TO BE MAINTAINED UNTIL PROJECT COMPLETION. SEE PAGE DG-5, PARAGRAPH H3B, OF CITY OF SALISBURY'S "CONSTRUCTION AND MATERIAL SPECIFICATIONS" BOOK FOR CLEANOUT PLACEMENT.



**FRONT VIEW**



**PLAN VIEW**

CITY OF  
SALISBURY  
SALISBURY, MD

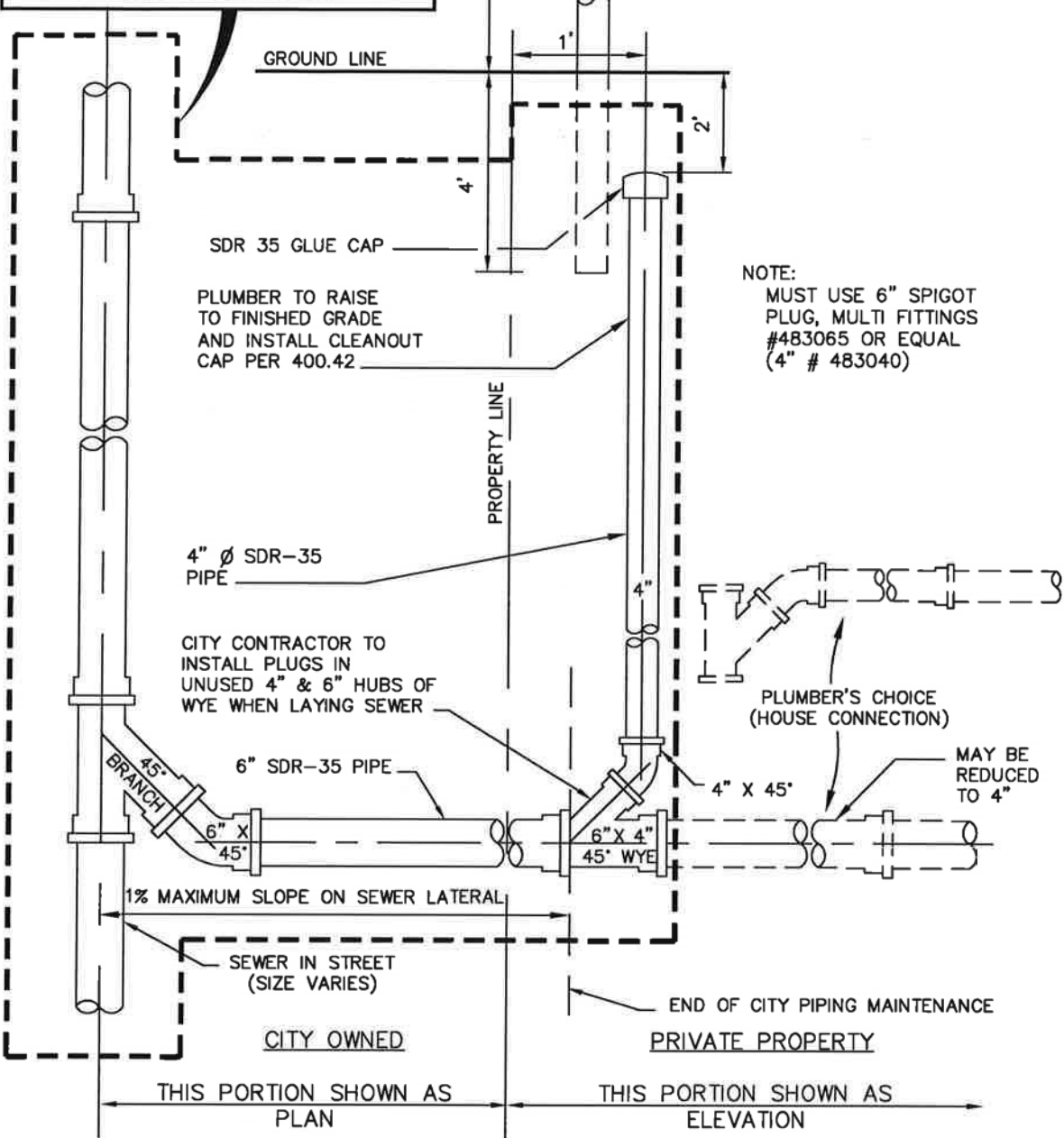
APPROVED  
*1/2/18*  
*Amanda Bellach* DATE  
CITY ENGINEER

STANDARD HOUSE SERVICE  
SEWER CONNECTION  
CLEANOUT GUARD DETAIL

DATE	01/23/06
SCALE	NONE
DWG. NO.	STD40043
STD. NO.	400.43

ALL PARTS WITHIN DASHED BOX SUPPLIED & INSTALLED BY CITY CONTRACTOR.  
ALL PARTS OUTSIDE DASHED BOX SUPPLIED & INSTALLED BY PRIVATE OWNER'S PLUMBERING CONTRACTOR.

SEE DETAIL 400.43 FOR CLEANOUT GUARD DETAIL.



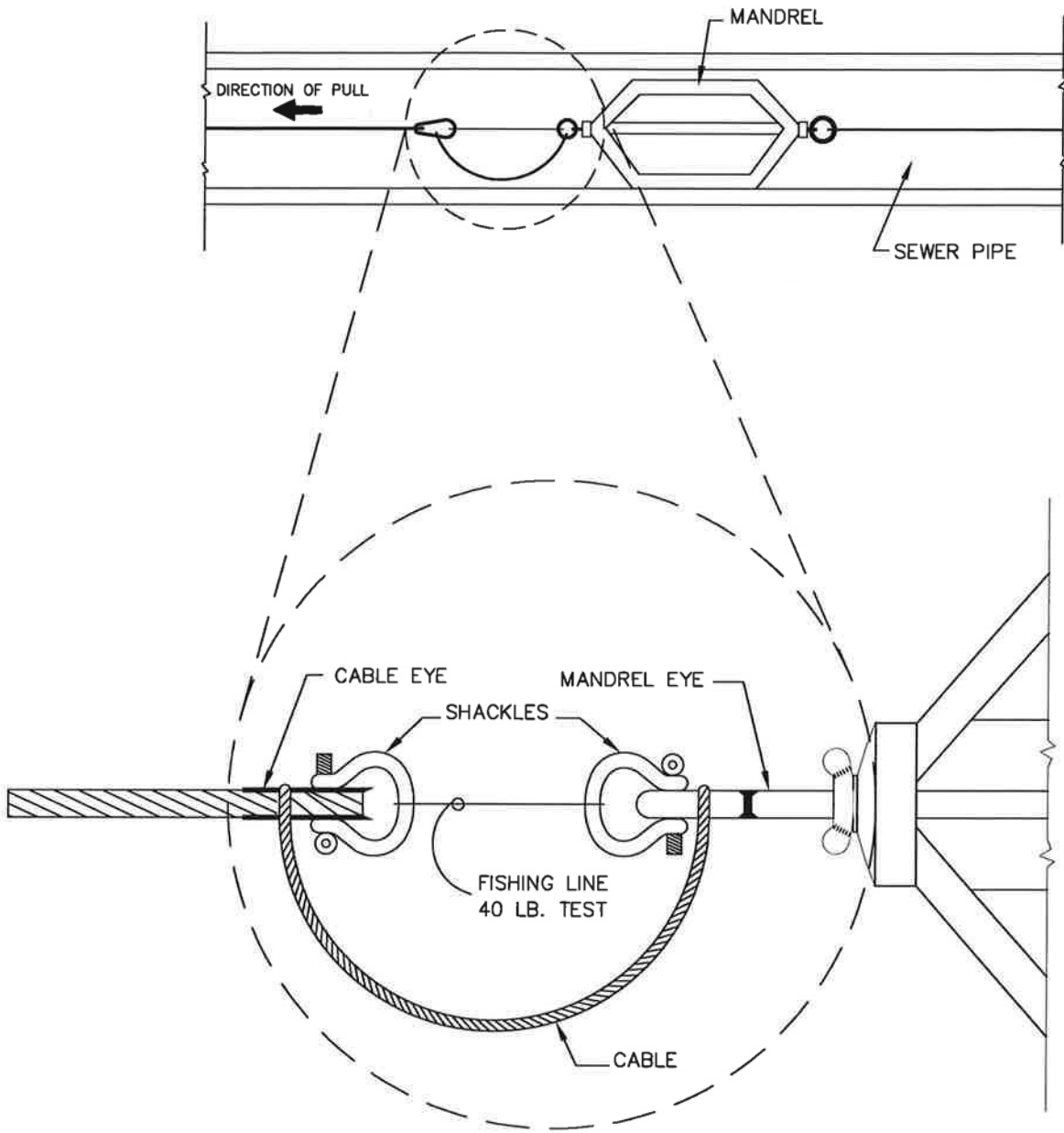
CLEANOUTS INSTALLED IN DRIVEWAYS AND UNPAVED AREAS SHALL BE FURNISHED WITH A ROUND CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE CLEANOUT CAP. THE COLLAR SHALL BE 6" THICK AND BE SUPPORTED BY A 6" BASE OF CR-6 AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. CONCRETE COLLARS SHALL BE INSTALLED AFTER THE TOP OF THE CLEANOUT CAPS ARE ADJUSTED TO FINISHED GRADE.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Pollack*  
CITY ENGINEER

STANDARD HOUSE SERVICE  
SEWER CONNECTION  
FOR NEW CONSTRUCTION  
USING PLASTIC PIPE

DATE 1/31/08  
SCALE NONE  
DWG. NO. STD40045  
STD. NO. 400.45



NOTE:

1. MANDREL SHALL BE APPROVED BY THE FIELD ENGINEER PRIOR TO USE.
2. MANDREL SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE.

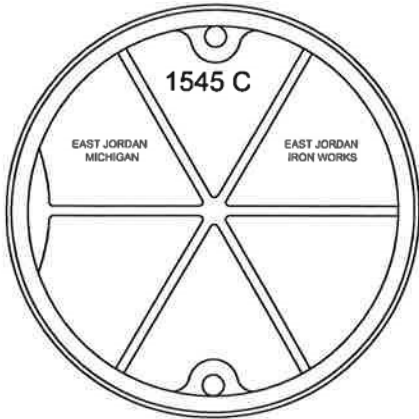
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
*Amanda Pollock*  
DATE  
CITY ENGINEER

DEFLECTION TEST  
MANDREL METHOD

DATE	03/01/12
SCALE	NONE
DWG. NO.	STD40050
STD. NO.	400.50

NOTE: NOT FOR USE IN PAVED AREAS.



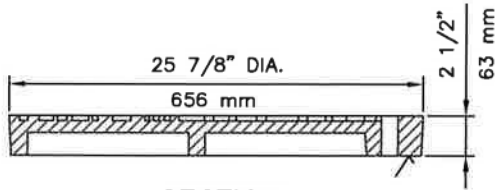
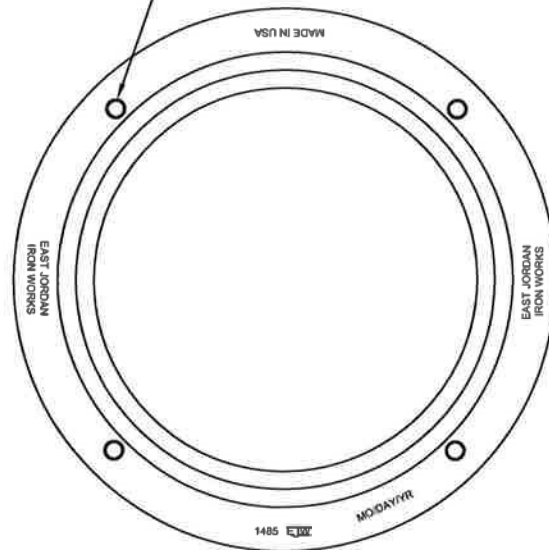
BOTTOM VIEW

EAST JORDAN  
 FRAME #148510  
 COVER #154524  
 OR APPROVED SUBSTITUTE

2 1/2" (64) RAISED LETTERS  
 (FLUSH WITH TOP)  
 1 1/8" DIA.  
 (29 mm) HOLES

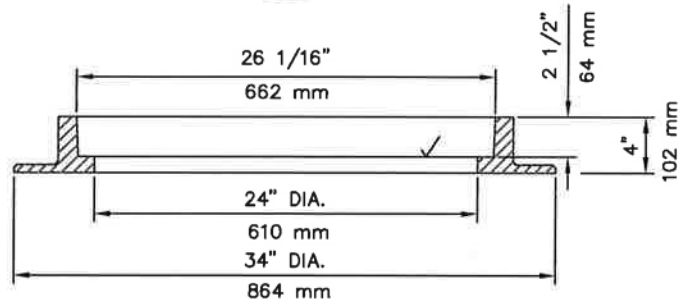


(4) 1" (25 mm) DIA.  
 HOLES ON 30 1/4" DIA  
 BOLT CIRCLE



SECTION

✓ MACHINED SURFACE

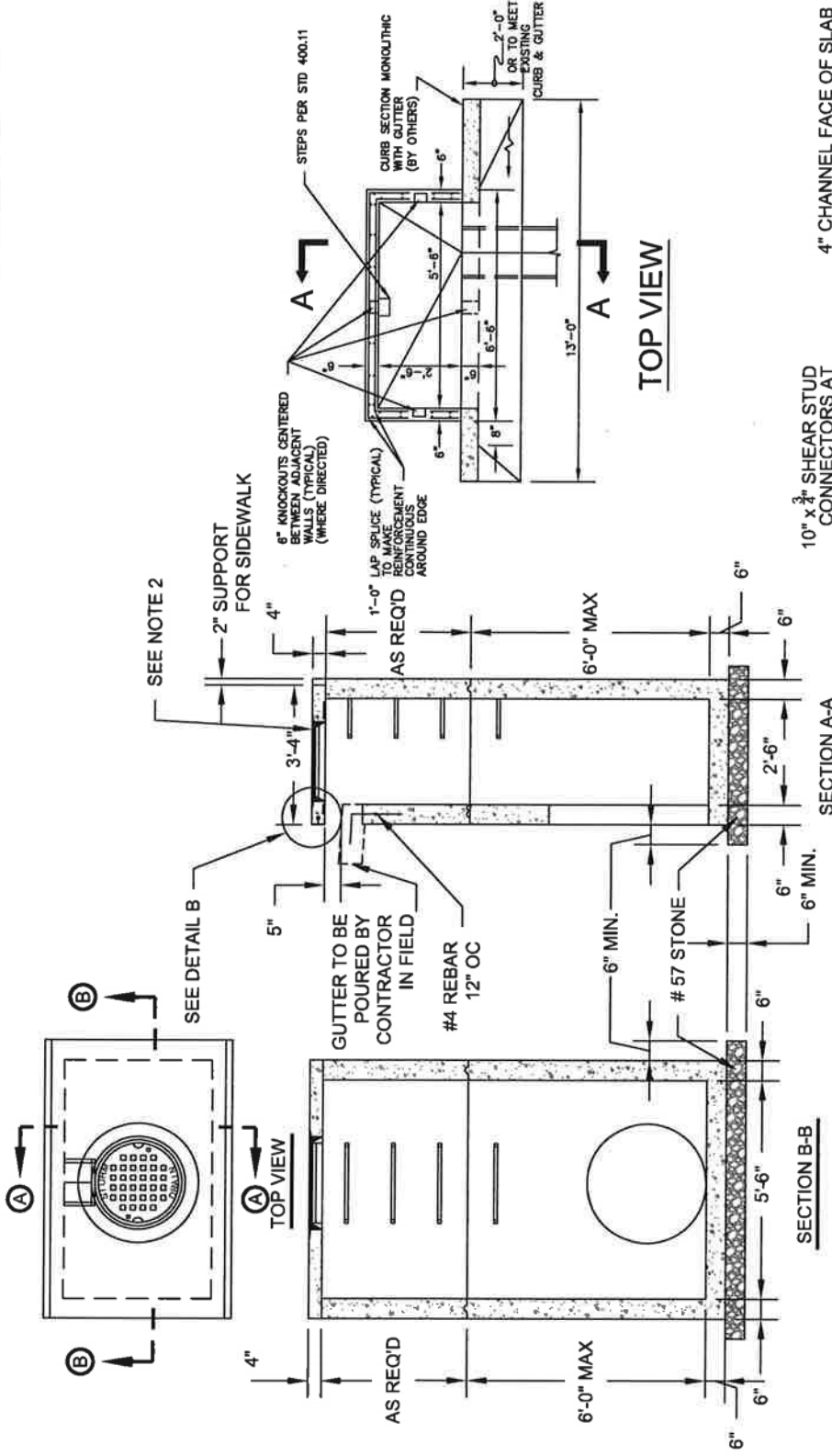


CITY OF  
 SALISBURY  
 SALISBURY, MD

APPROVED  
 1/2/18  
 Amanda Pellach  
 CITY ENGINEER

MINIMUM CLEARANCE  
 MANHOLE FRAME & COVER  
 STORMWATER

DATE 7/31/98  
 SCALE NONE  
 DWG. NO. STD50010  
 STD. NO. 500.10

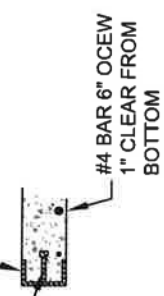


**GENERAL NOTES:**

1. CONCRETE SHALL BE MDSHA MIX No. 6 - 4, 500 P.S.I.
2. SIDEWALK FRAME AND COVER TO BE NEENAH R-5915-E, OR EAST JORDAN FRAME 2935Z, COVER 2935C.
3. STEPS INCLUDED WHEN BOX IS OVER 3'-6".
4. REINFORCING TO BE 2 LAYERS OF W4XW4 WELDED WIRE FABRIC.
5. TO BE PAINTED IN FIELD WITH RUSTOLEUM 3400 SYSTEM DTM 340 VOC ALKYD ENAMEL 3482402 SILVER GRAY.
6. MINIMUM COVER SHALL BE 1 1/2" FOR ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
7. (RISER SECTION) 5 FOOT MAXIMUM HEIGHT, 1 FOOT MINIMUM.
8. (BASE) 6" MAXIMUM HEIGHT, MINIMUM HEIGHT = PIPE O.D. + 6 IN. MEASURED FROM PIPE INVERT.
9. PIPE OPENINGS TO BE PROVIDED AS REQUIRED FOR SIZE, LOCATION AND INVERT ELEVATIONS. REFER TO PLANS.
10. PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS DIRECTED BY THE ENGINEER OR AS NOTED ON PLANS.
11. GROUT AROUND ALL PIPES USING NON-SHRINK GROUT JOINT FILLER.
12. WHERE USED, UNDERDRAIN SHALL BE GROUTED IN PLACE IN THE PROVIDED KNOCKOUT HOLES.
13. LIFT HOLES TO BE PROVIDED FOR HANDLING RISER(S) AND BASE HOLES TO BE FILLED WITH MIX #3 CONCRETE UPON INSTALLATION.
14. INVERT TO BE CONCRETE SLOPE 2" PER FOOT TOWARD OUTLET OR AS DIRECTED. (TO BE PROVIDED IN FIELD)

10" x 3/4" SHEAR STUD CONNECTORS AT 3'-6" C/C MAX PAINT AFTER WELDING

4" CHANNEL FACE OF SLAB SEE NOTE 5.



**DETAIL B**

CITY OF SALISBURY  
SALISBURY, MD

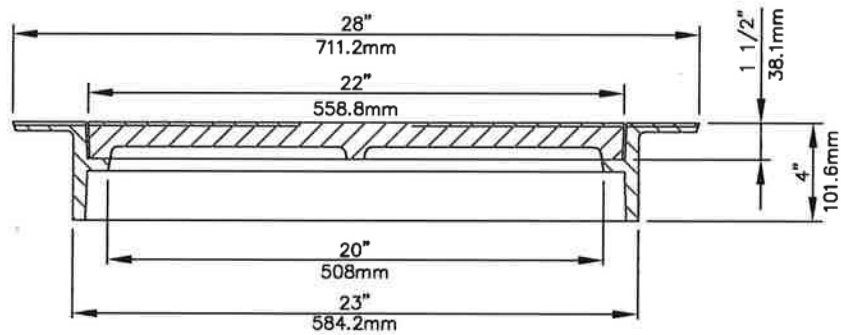
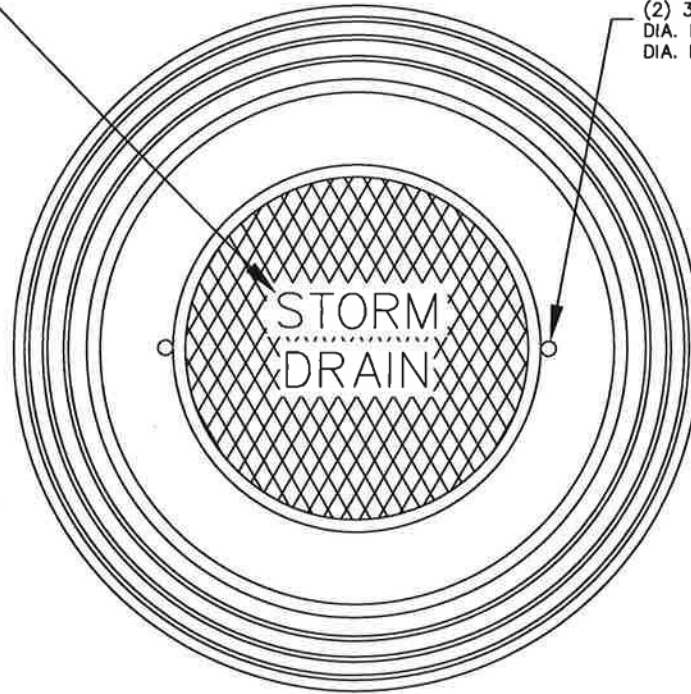
APPROVED  
*1/2/18*  
*Amanda Pollack*  
DATE  
CITY ENGINEER

TYPE "A-1" INLET

DATE	1/27/10
SCALE	NONE
DWG. NO.	STD50045
STD. NO.	500.45

2" (50.8mm) LETTERS  
(RECESSED FLUSH)

(2) 3/4" (19.1mm)  
DIA. HOLES ON 18" (457.2mm)  
DIA. BOLT CIRCLE

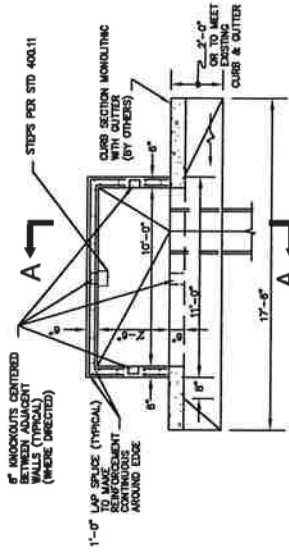


HEAVY DUTY  
MACHINED BEARING SURFACES  
MAT'L. ASTM A48 CL 35

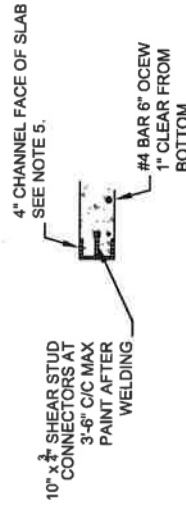
EAST JORDAN FRAME 2935Z, COVER 2935C  
OR NEENAH R-5915-E.

<p>CITY OF SALISBURY SALISBURY, MD</p>	<p>APPROVED</p> <p>1/2/18</p> <p><i>Amanda Pollock</i> DATE</p> <p>CITY ENGINEER</p>	<p>SIDEWALK FRAME &amp; COVER TYPE "A-1" &amp; "B-1" INLETS</p>	<p>DATE 7/27/98</p>
			<p>SCALE NONE</p>
			<p>DWG. NO. STD50046</p>
			<p>STD. NO. 500.46</p>

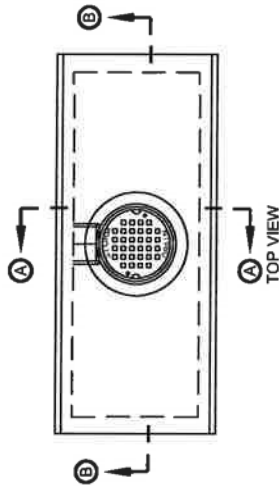




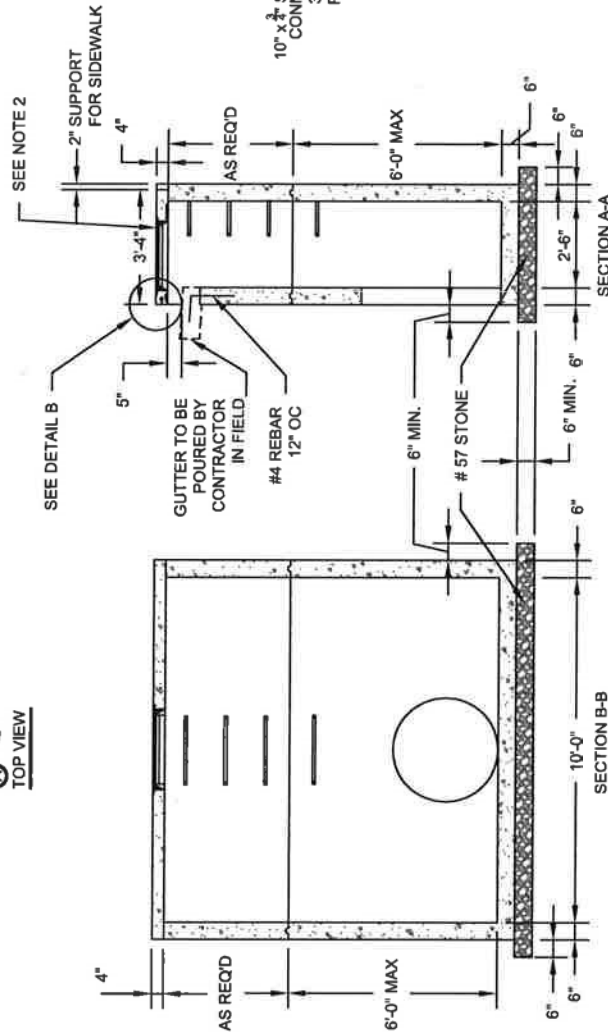
TOP VIEW



DETAIL B



TOP VIEW



SECTION A-A

SECTION B-B

**GENERAL NOTES:**

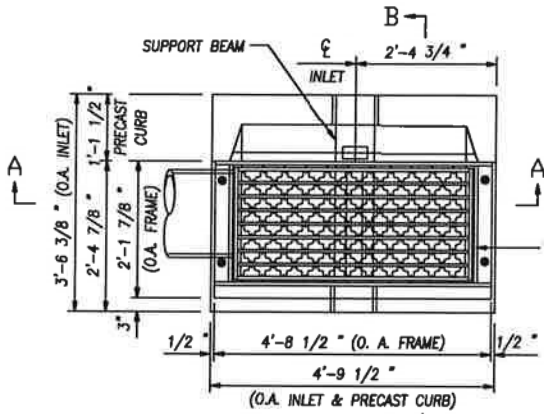
1. CONCRETE SHALL BE MDSHA MIX No. 6-4, 500 P.S.I.
2. SIDEWALK FRAME AND COVER TO BE NEENAH R-5915-E, OR EAST JORDAN FRAME 2935Z, COVER 2935C.
3. STEPS INCLUDED WHEN BOX IS OVER 3'-6".
4. REINFORCING TO BE 2 LAYERS OF W4XW4 WELDED WIRE FABRIC.
5. TO BE PAINTED IN FIELD WITH RUSTOLEUM 3400 SYSTEM DTM 340 VOC ALKYD ENAMEL 3482402 SILVER GRAY.
6. MINIMUM COVER SHALL BE 1 1/2" FOR ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
7. (RISER SECTION) 5 FOOT MAXIMUM HEIGHT, 1 FOOT MINIMUM.
8. (BASE) 6" MAXIMUM HEIGHT, MINIMUM HEIGHT = PIPE O.D. + 6 IN. MEASURED FROM PIPE INVERT.
9. PIPE OPENINGS TO BE PROVIDED AS REQUIRED FOR SIZE, LOCATION AND INVERT ELEVATIONS. REFER TO PLANS.
10. PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS DIRECTED BY THE ENGINEER OR AS NOTED ON PLANS.
11. GROUT AROUND ALL PIPES USING NON-SHRINK GROUT JOINT FILLER.
12. WHERE USED, UNDERDRAIN SHALL BE GROUTED IN PLACE IN THE PROVIDED KNOCKOUT HOLES.
13. LIFT HOLES TO BE PROVIDED FOR HANDLING RISER(S) AND BASE HOLES TO BE FILLED WITH MIX #3 CONCRETE UPON INSTALLATION.
14. INVERT TO BE CONCRETE SLOPE 2" PER FOOT TOWARD OUTLET OR AS DIRECTED. (TO BE PROVIDED IN FIELD)

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amanda Bellack*  
CITY ENGINEER

TYPE "B-1" INLET

DATE 1/27/10  
SCALE NONE  
DWG. NO. STD50048  
STD. NO. 500.48



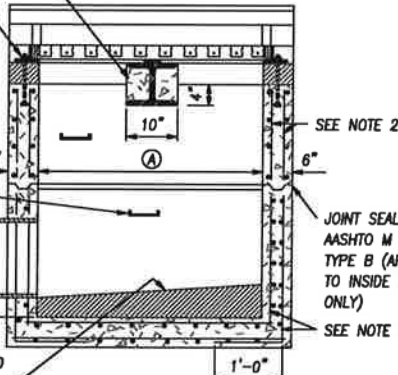
INLET TYPE	DIMENSIONS	
	A	B
NR OPEN THROAT	3'-8 1/2"	2'-8 3/8"
NR CLOSED THROAT	3'-8 1/2"	1'-10 3/8"

SUPPORT BEAM ANCHORAGE  
CONCRETE MIX. NO.6 (TO BE  
CAST IN FIELD)

5/8"  $\phi$  ANCHOR BOLT,  
4 PER FRAME

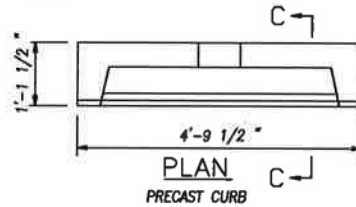
LADDER RUNGS  
PER SPW  
STANDARD DETAIL

INVERT TO BE CONCRETE  
SLOPE 2" PER FOOT TOWARD  
OUTLET OR AS DIRECTED.  
(TO BE PROVIDED IN FIELD)

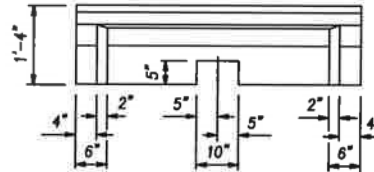


SECTION A-A

LAP SPLICE TO MAKE REINFORCING  
CONTINUOUS AROUND OUTSIDE CORNER.



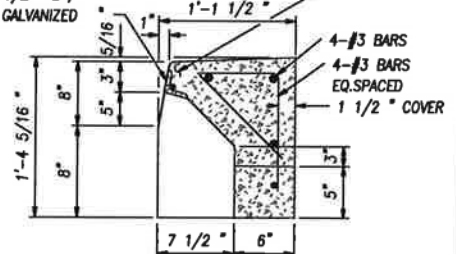
PLAN  
PRECAST CURB



FRONT ELEVATION  
(PRECAST CURB)

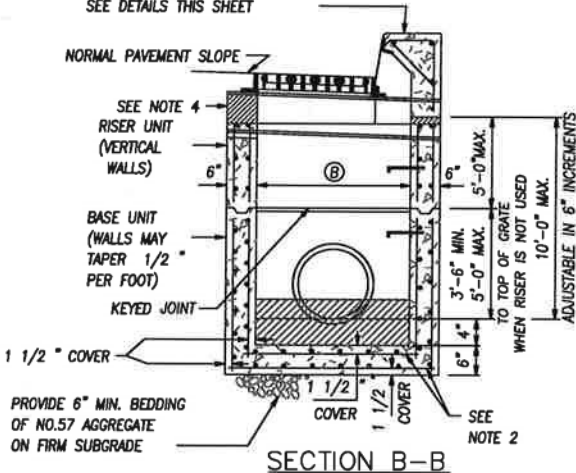
2 1/2" x 2 1/2" x 1/2" L,  
4'-9 1/2" LONG, GALVANIZED

#3 ANCHOR BARS  
WELDED TO L  $\phi$   
18" C/C.



SECTION C-C

PRECAST CURB  
SEE DETAILS THIS SHEET



SECTION B-B

GENERAL NOTES

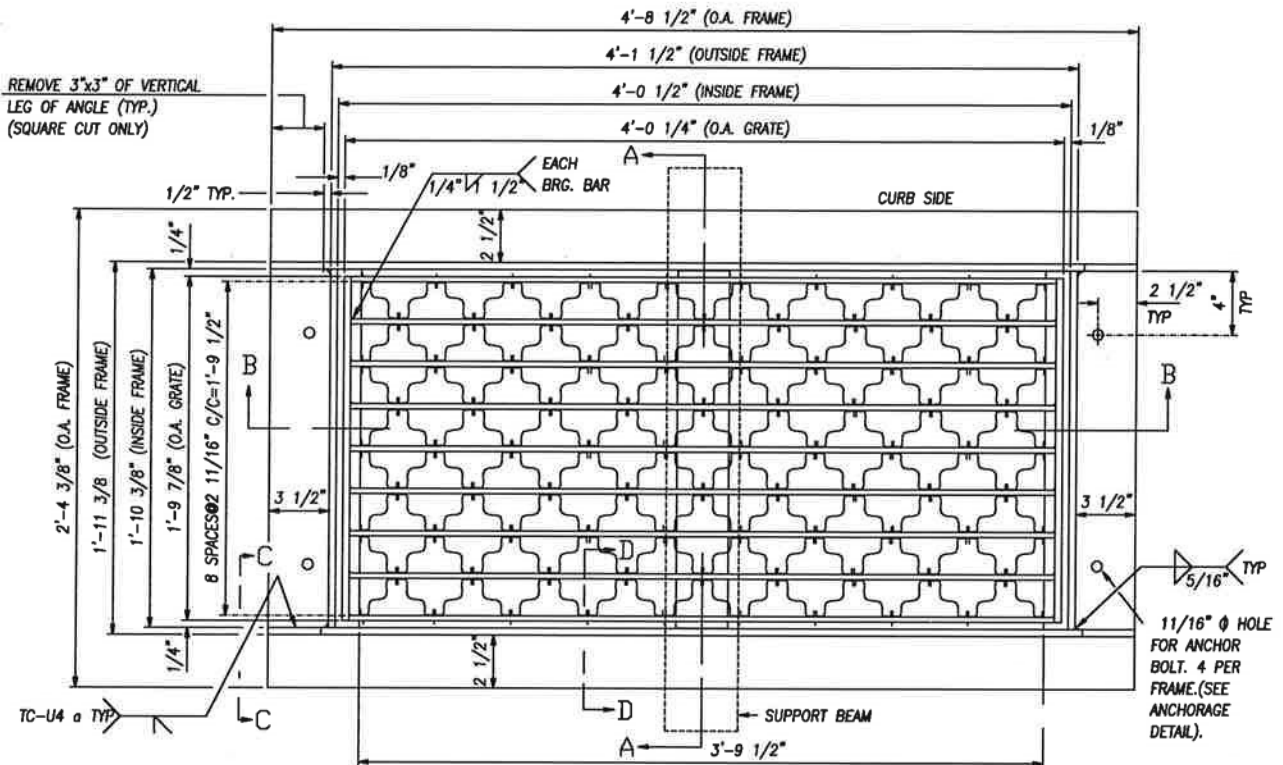
1. CONCRETE TO BE MIX NO.6 (4500PSI)
2. REINFORCING-2 LAYERS OF 4x4-W4.0xW4.0 WELDED WIRE FABRIC.
3. THREADED PLASTIC INSERTS TO BE PROVIDED FOR HANDLING.
4. GRADE AND SLOPE ADJUSTMENTS COMPLETED IN THE FIELD USING CONCRETE MIX NO.6.
5. PIPE OPENINGS TO BE PROVIDED AS REQUIRED, FOR SIZE, LOCATION AND INVERT ELEVATIONS REFER TO CONSTRUCTION PLANS.
6. PLACEMENT OF SUBGRADE DRAINAGE WILL BE AS DIRECTED BY THE ENGINEER OR AS NOTED ON THE CONSTRUCTION PLANS.
7. LADDER RUNGS SHALL BE IN ACCORDANCE WITH SPW STANDARD DETAIL
8. OMIT SUPPORT BEAM W/ CLOSED THROAT VERSION

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
Amanda Pollack  
CITY ENGINEER

PRECAST NR INLET  
OPEN AND CLOSED  
THROAT

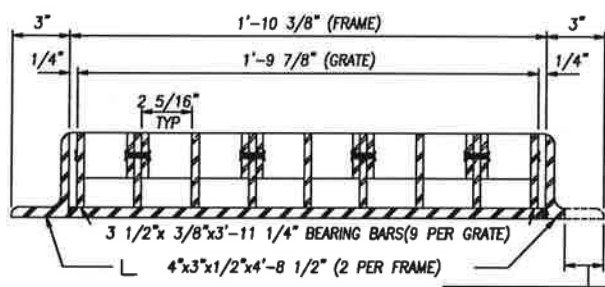
DATE 11/19/09  
SCALE NONE  
DWG. NO. STD50052  
STD. NO. 500.52



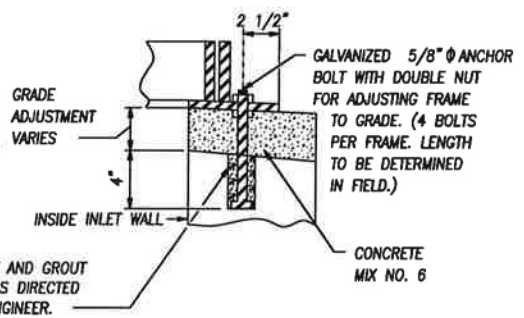
PLAN

GENERAL NOTES

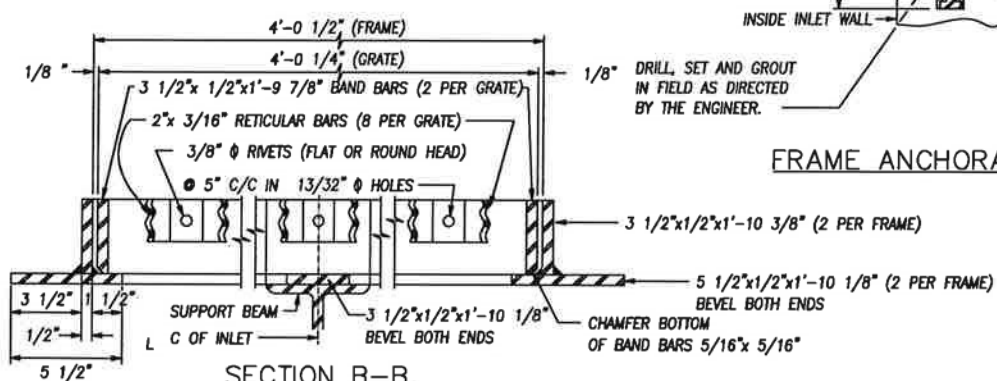
1. FRAMES & GRATES TO BE SQUARE, FLAT & TRUE.
2. STRUCTURAL STEEL SHALL BE A.S.T.M. A-36.
3. FRAMES & GRATES TO BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH A.S.T.M. A-123.



SECTION A-A



FRAME ANCHORAGE DETAIL



SECTION B-B

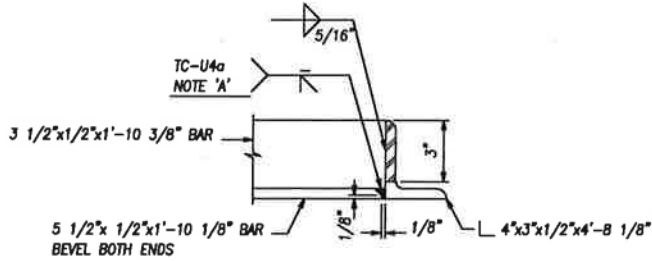
CITY OF SALISBURY  
 SALISBURY, MD

APPROVED  
 1/2/18  
 Amanda Pollack  
 CITY ENGINEER

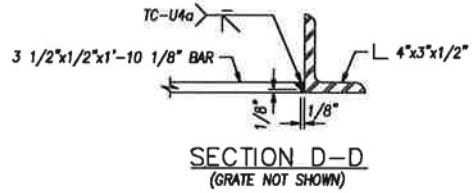
STANDARD NR INLET  
 FRAME & GRATE

DATE 2/19/10  
 SCALE N.T.S.  
 DWG. NO. STD50053  
 STD. NO. 500.53

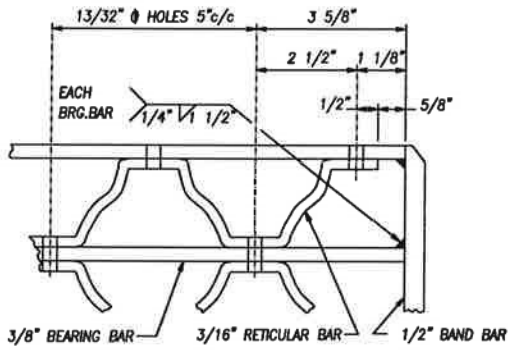
NOTE 'A' - WELD 5 1/2"x1/2" BAR TO 4"x3"x1/2" L  
BEFORE WELDING 3 1/2"x1/2" BAR



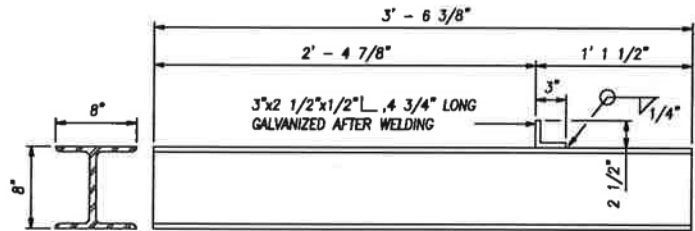
SECTION C-C



SECTION D-D  
(GRATE NOT SHOWN)



GRATING DETAIL



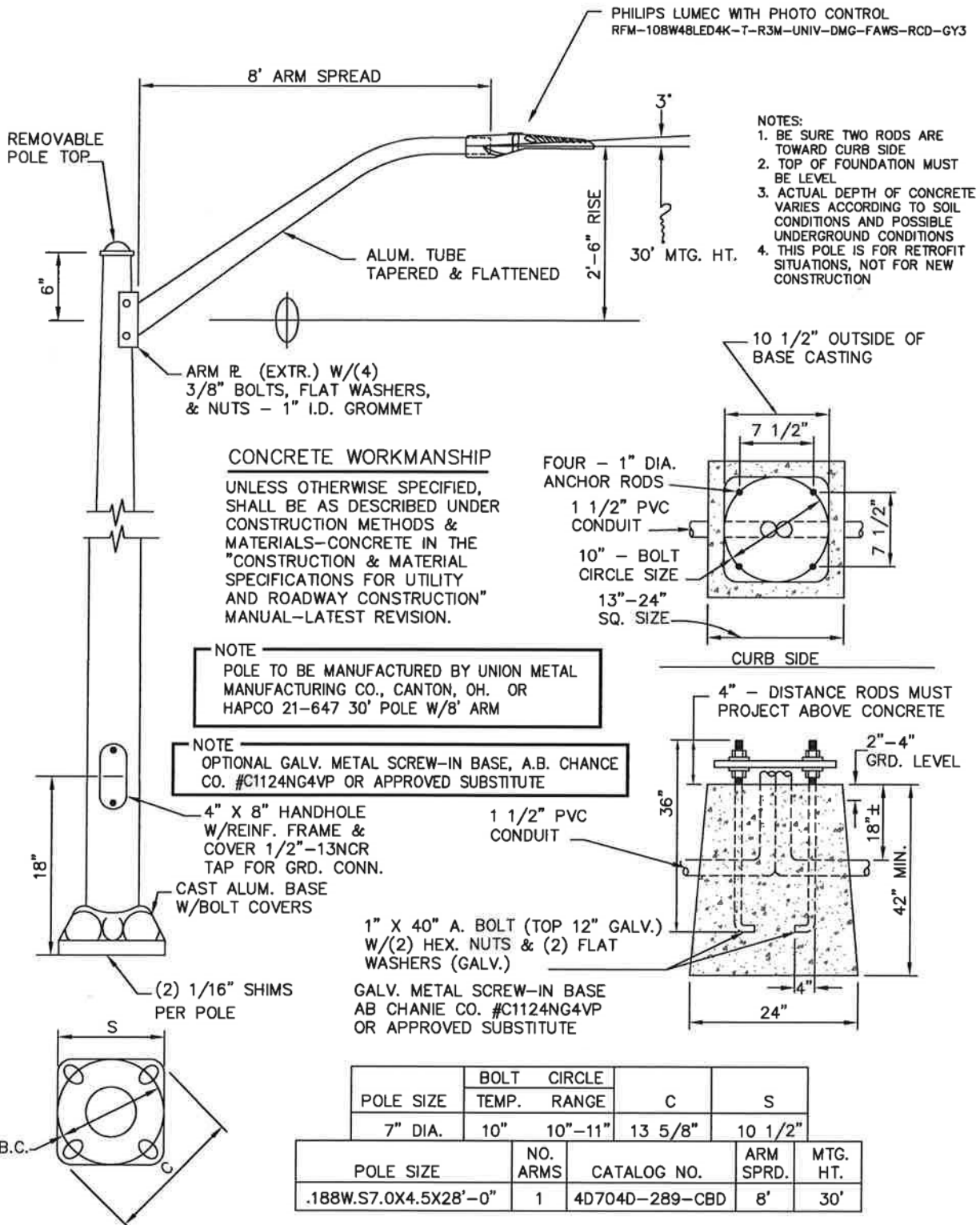
SUPPORT BEAM  
W8x31 (GALVANIZED)

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
Amanda Bellack  
CITY ENGINEER

STANDARD NR INLET FRAME, GRATE  
AND SUPPORT BEAM DETAILS

DATE 2/19/10  
SCALE N.T.S.  
DWG. NO. STD50054  
STD. NO. 500.54

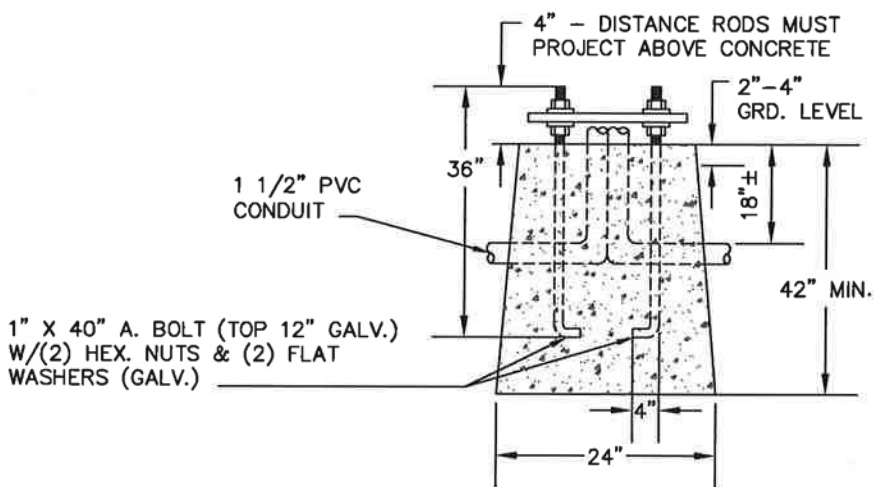
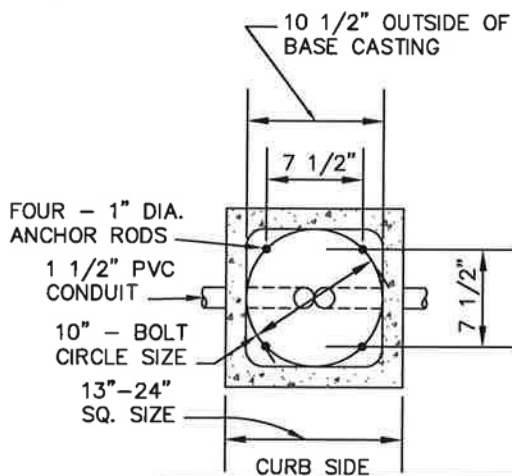


CITY OF SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
Amanda Pellach  
CITY ENGINEER

LED COBRA HEAD LIGHTING POLE & FOUNDATION

DATE 10/14/85  
SCALE NONE  
DWG. NO. STD60001  
STD. NO. 600.01



1" X 40" A. BOLT (TOP 12" GALV.)  
W/(2) HEX. NUTS & (2) FLAT  
WASHERS (GALV.)

NOTE FOR STANDARD 600.01  
OPTIONAL GALV. METAL SCREW-IN BASE, A.B.  
CHANCE CO. #C1124NG4VP, McCLEAN POWER  
SYSTEMS CO. #D1202-0053 OR APPROVED  
SUBSTITUTE

NOTE FOR STANDARD 600.04  
OPTIONAL GALV. METAL SCREW-IN BASE,  
McCLEAN POWER SYSTEMS CO. #D1202-0231  
OR APPROVED SUBSTITUTE

**CONCRETE WORKMANSHIP**  
UNLESS OTHERWISE SPECIFIED,  
SHALL BE AS DESCRIBED UNDER  
CONSTRUCTION METHODS &  
MATERIALS—CONCRETE IN THE  
"CONSTRUCTION & MATERIAL  
SPECIFICATIONS FOR UTILITY  
AND ROADWAY CONSTRUCTION"  
MANUAL—LATEST REVISION.

- NOTES:
1. BE SURE TWO RODS ARE TOWARD CURB SIDE
  2. TOP OF FOUNDATION MUST BE LEVEL
  3. ACTUAL DEPTH OF CONCRETE VARIES ACCORDING TO SOIL CONDITIONS AND POSSIBLE UNDERGROUND CONDITIONS

CITY OF  
SALISBURY  
SALISBURY, MD

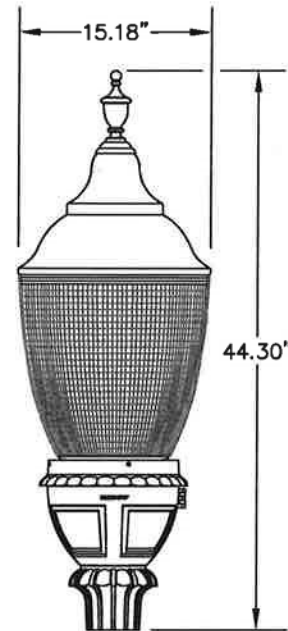
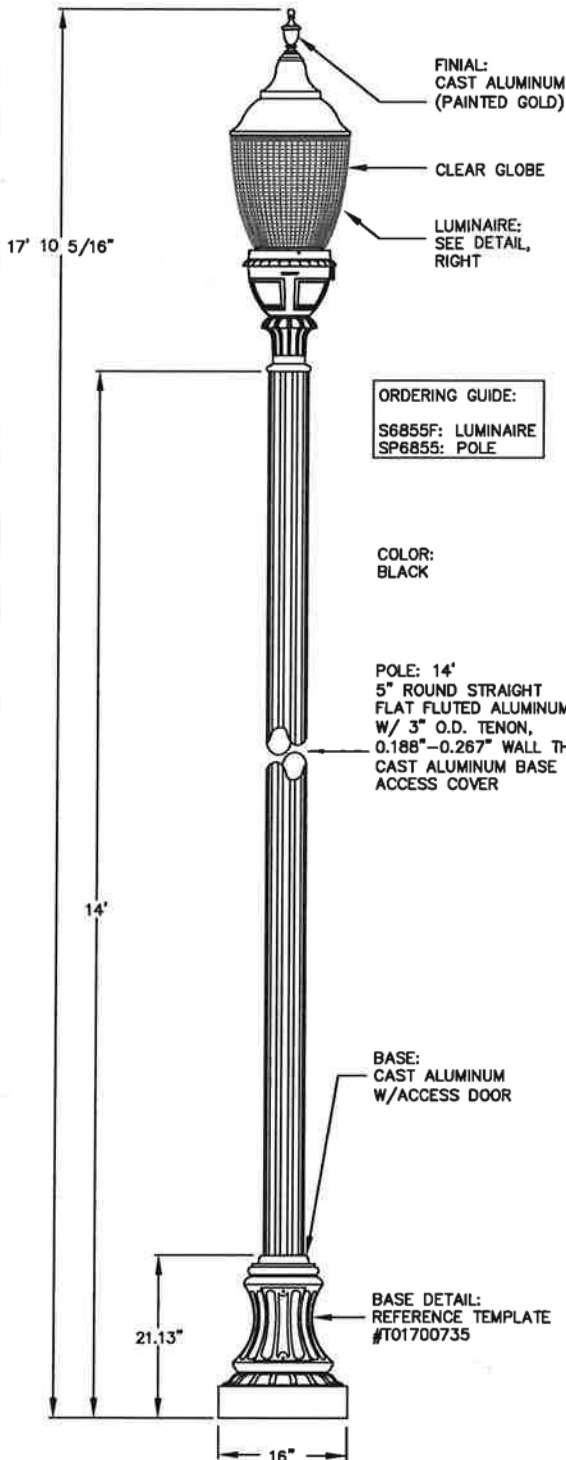
APPROVED  
1/2/18  
DATE  
*Amanda Poccack*  
CITY ENGINEER

**FOUNDATION  
FOR LIGHTING POLE**

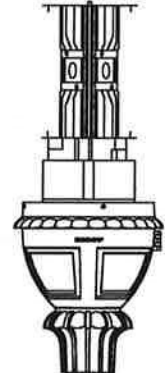
DATE 11/17/15  
SCALE NONE  
DWG. NO. STD60002  
STD. NO. 600.02

**NOTICE:**  
THIS DRAWING IS FOR REFERENCE  
ONLY. CHECK FOR LATEST REVISION  
PRIOR TO ORDERING

ORNAMENTAL LIGHT FIXTURE SHALL BE AS  
MANUFACTURED BY PHILIPS HADCO, OR  
APPROVED SUBSTITUTE



TOP VIEW  
LUMILOCK L.E.D.  
ASSEMBLY



LUMINAIRE DETAIL

**FASTENERS:**

- ALLEN HEAD BOLTS
- HEX HEAD BOLTS

**COLOR:**

- BLACK
- HEX HEAD BOLTS

**PHOTO CONTROL:**

- 120V BUTTON EYE
- 208V/240V/277V BUTTON EYE
- 347V BUTTON EYE
- TWIST-LOCK RECEPTACLE
- NONE

**PHOTO CONTROL:**

- 4 HRS. 25% REDUCTION
- 4 HRS. 50% REDUCTION
- 4 HRS. 75% REDUCTION
- 6 HRS. 25% REDUCTION
- 6 HRS. 50% REDUCTION
- 6 HRS. 75% REDUCTION
- 8 HRS. 25% REDUCTION
- 8 HRS. 50% REDUCTION
- 8 HRS. 75% REDUCTION
- CUSTOM DIMMING SCHEDULE
- NONE

**LUMILOCK LED SPECIFICATIONS:**

- 80, 4000K (NEURAL) PHILIPS LUMILEDS LUXEON R LEDs, MIN. 70 COLOR RENDERING INDEX (CRI), >80,000 HRS. OF OPERATIONAL LIFE (AT 25 C AMBIENT TEMP. & 70% LUMEN MAINTENANCE), ALUMINUM CORE PCB, SEALED GLASS LENS, IP66 RATED, TYPE V LIGHT DISTRIBUTION.
- INTEGRAL PHILIPS ADVANCE XITANIUM LED DRIVER, CLASS 1, IP66 RATED, 350mA, 0-10V DIMMING, INTELLIVOLT 120-277 VAC, 50-60 Hz, RoHS COMPLIANT, FIELD REPLACEABLE 10dV/10ka SURGE SUPPRESSION.
- MANUFACTURED TO ISO 9001:2008 STANDARDS.

**NOTE:**  
FOR FOUNDATION SPECIFICATIONS  
SEE STANDARD 600.02

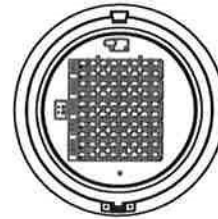
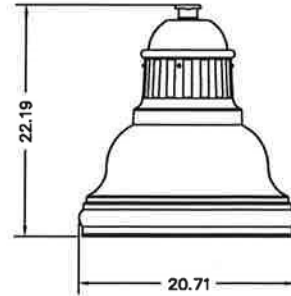
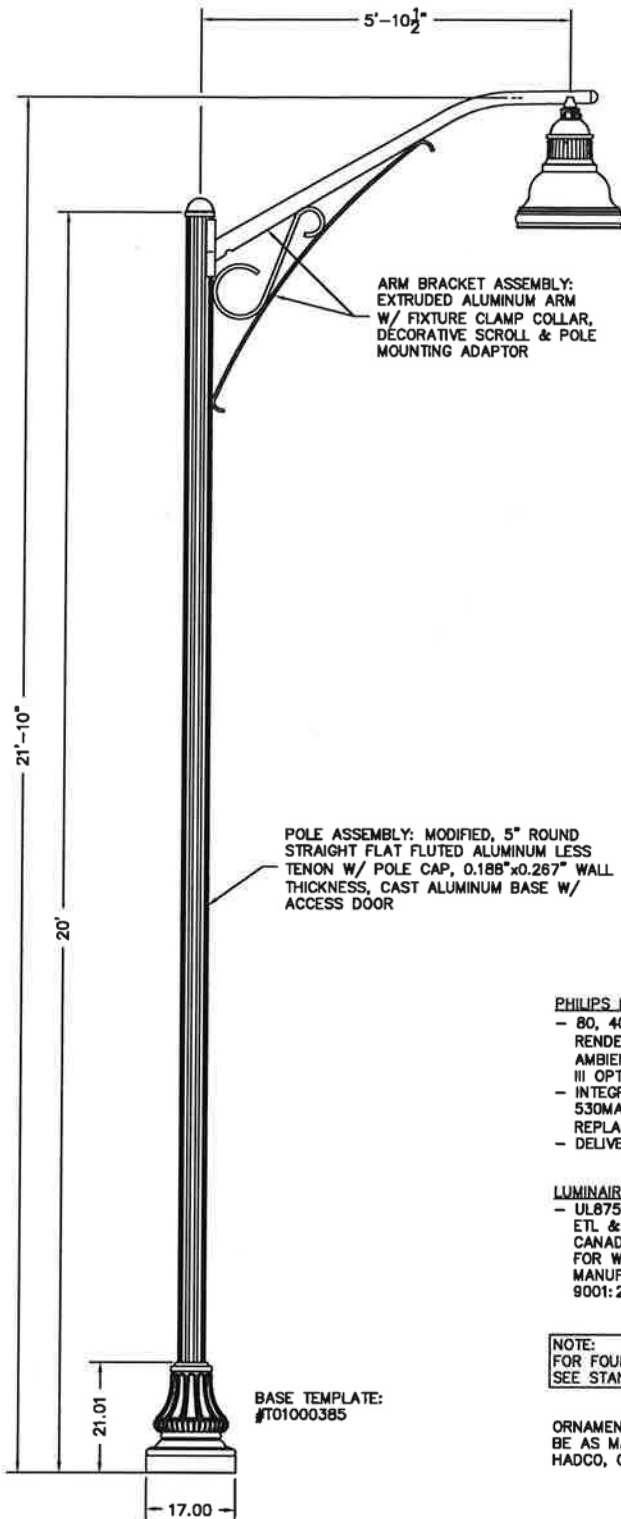
CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
DATE  
*Amanda Pellach*  
CITY ENGINEER

RESIDENTIAL ROAD  
ORNAMENTAL  
LIGHT FIXTURE

DATE 11/17/15  
SCALE NTS  
DWG. NO. STD60004  
STD. NO. 600.04

NOTICE:  
THIS DRAWING IS FOR REFERENCE ONLY. CHECK  
FOR LATEST REVISION PRIOR TO ORDERING



ARM BRACKET ASSEMBLY:  
EXTRUDED ALUMINUM ARM  
W/ FIXTURE CLAMP COLLAR,  
DECORATIVE SCROLL & POLE  
MOUNTING ADAPTOR

POLE ASSEMBLY: MODIFIED, 5" ROUND  
STRAIGHT FLAT FLUTED ALUMINUM LESS  
TENON W/ POLE CAP, 0.188"x0.267" WALL  
THICKNESS, CAST ALUMINUM BASE W/  
ACCESS DOOR

MOUNTING:  
X CAST NECK  
\_ THREADED  
PIPE  
  
COLOR:  
X BLACK  
\_ WHITE  
\_ VERDE  
\_ BRONZE  
\_ GRAY

DIMMING CONTROL:  
\_ 4 HRS 25% REDUCTION  
\_ 4 HRS 50% REDUCTION  
\_ 4 HRS 75% REDUCTION  
\_ 6 HRS 25% REDUCTION  
\_ 6 HRS 50% REDUCTION  
\_ 6 HRS 75% REDUCTION  
\_ 8 HRS 25% REDUCTION  
\_ 8 HRS 50% REDUCTION  
\_ 8 HRS 75% REDUCTION  
\_ CUSTOM DIMMING  
SCHEDULE  
X NONE

OPTIONS:  
X FLUTED SPINNING  
\_ NONE

**PHILIPS LEDGINE SPECIFICATIONS:**

- 80, 4000K (NEUTRAL) PHILIPS LUMILEDS LUXEON T LEDS, TYPICAL 75 COLOR RENDERING INDEX (CRI), >100,000 HOURS OF OPERATIONAL LIFE (AT 25°C AMBIENT TEMPERATURE & 70% LUMEN MAINTENANCE), INJECTION MOLDED TYPE III OPTICAL PLATES, IP66 RATED LED MODULE.
- INTEGRAL PHILIPS ADVANCE TITANIUM LED DRIVER, CLASS 1, IP66 RATED, 530MA, INTELLIVOLT 120-277 VAC, 50-60 HZ, ROHS COMPLIANT, FIELD REPLACEABLE 10KV/10KA SURGE SUPPRESSION.
- DELIVERED LUMENS: 14027, WATTAGE: 127W.

**LUMINAIRE CERTIFICATIONS:**

- UL8750 & UL1598 COMPLIANT, ETL & CETL LISTED TO U.S. & CANADIAN SAFETY STANDARDS FOR WET LOCATIONS, MANUFACTURED TO ISO 9001:2008 STANDARDS.

NOTE:  
FOR FOUNDATION SPECIFICATIONS  
SEE STANDARD 600.02

ORNAMENTAL LIGHT FIXTURE SHALL  
BE AS MANUFACTURED BY PHILIPS  
HADCO, OR APPROVED SUBSTITUTE

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
DATE  
*Amarda Pollack*  
CITY ENGINEER

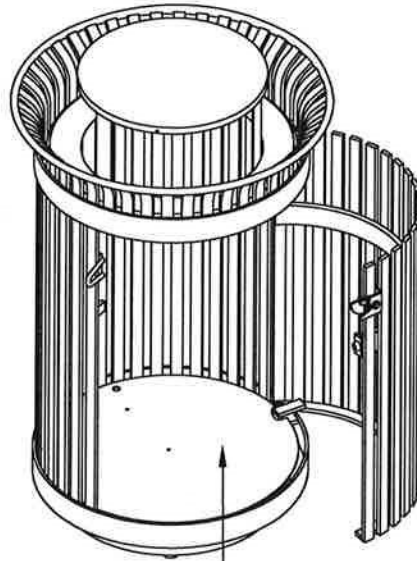
COLLECTOR ROAD  
ORNAMENTAL  
LIGHT FIXTURE

DATE 5/30/06  
SCALE NONE  
DWG. NO. STD60005  
STD. NO. 600.05



# VS SD-42 RECEPTACLE

36-GALLON  
CAPACITY HIGH  
DENSITY PLASTIC  
LINER (WEIGHT NOT  
TO EXCEED 6 LBS)



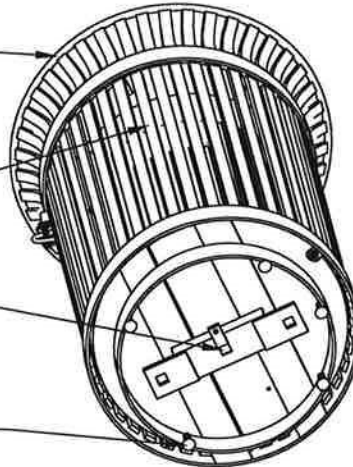
ABS PLASTIC BOTTOM  
PLATE COVER SITS ON TOP  
OF 1/4" x 2" SUPPORT BARS

5/8" SOLID STEEL  
TOP RING

3/8" x 1" VERTICAL  
STEEL BARS

3/4" SQUARE ANCHOR  
BOLT HOLES

LEVELING FEET  
WITH A 3/8" Ø  
THREADED STEEL  
SHAFT



## NOTES:

1. PROVIDE TRASH RECEPTACLE MODEL SD-42 IRONSITES COLLECTION™ WITH RAIN BONNET LID (NO ASHTRAY). BY VICTOR STANLEY:  
VICTOR STANLEY, P.O. DRAWER 330, 2103 BRICKHOUSE ROAD, DUNKIRK, MD 20754  
PH: 301-855-8300, FX: 410-257-7579  
WWW.VICTORSTANLEY.COM
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. FRAME COLOR: BLACK; SLAT COLOR: BLACK; DECALS: STANDARD RECYCLE DECALS FOR TOP BAND
4. FINISH: POWDER COAT
5. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C.

- POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
6. ALL FASTENERS TO BE STAINLESS STEEL AND TAMPER RESISTANT
  7. ASHTRAY TO BE ECOLAD CIGARETTE WASTE CONTAINER ECO1601. TO BE INSTALLED ON TRASH RECEPTACLES ONLY. HOLES THROUGH THE TRASH RECEPTACLES TO BE PRE-DRILLED BY VICTOR STANLEY. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF HOW IT IS FASTENED TO THE TRASH RECEPTACLE WITHOUT DAMAGING THE FINISH ON THE RECEPTACLES.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED

1/2/18

DATE

*Amanda Pollack*  
CITY ENGINEER

STANDARD TRASH  
RECEPTACLE

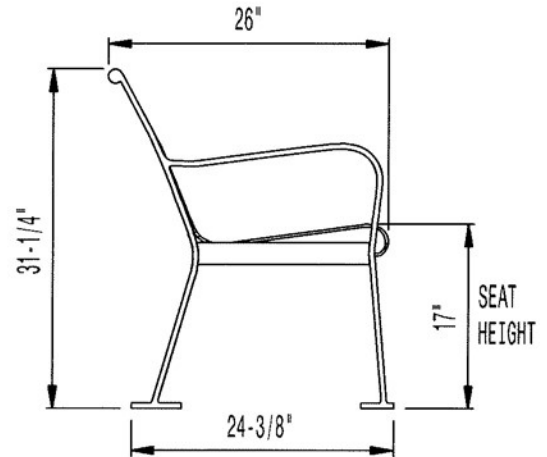
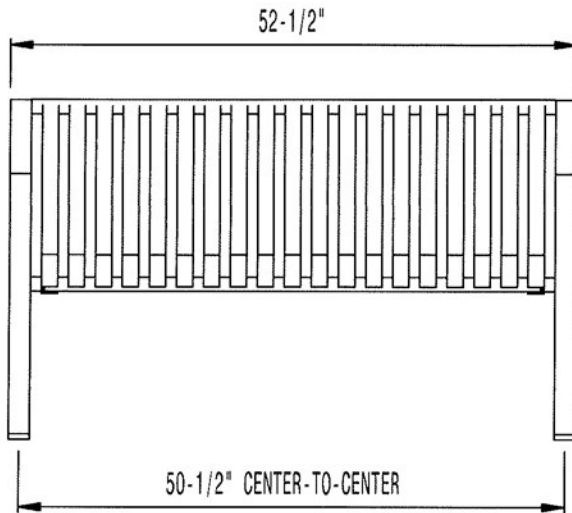
DATE 01/24/17

SCALE N.T.S.

DWG NO STD60006

STD NO 600.06

# VS RB-28 BENCH

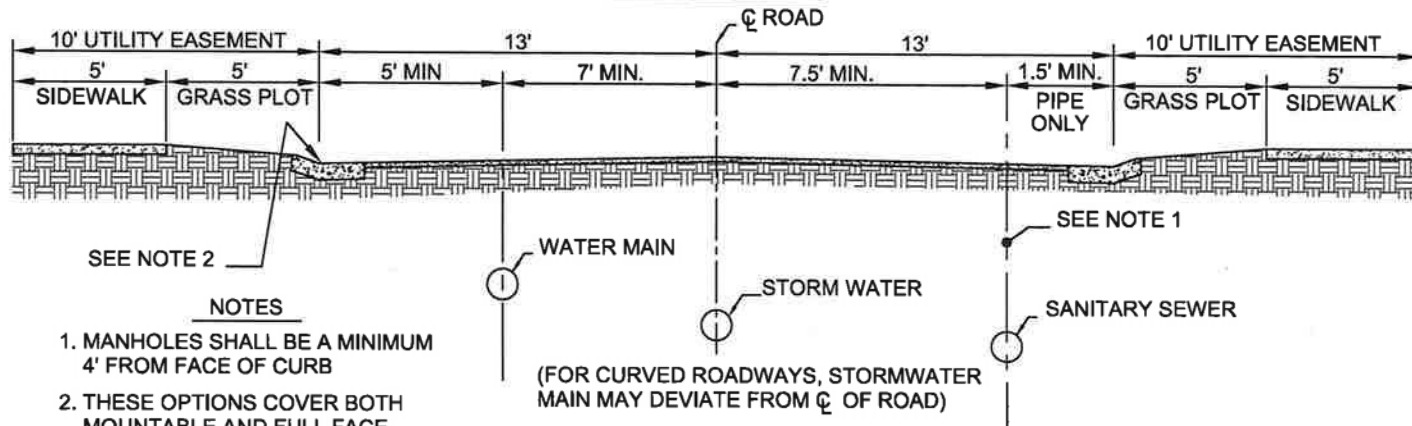


**NOTES:**

1. PROVIDE BENCH MODEL RB-28, STEELSITES™ RB COLLECTION, 4' LENGTH, VERTICAL, STEEL SLATS. BY VICTOR STANLEY:  
 VICTOR STANLEY  
 P.O. DRAWER 330  
 2103 BRICKHOUSE ROAD  
 DUNKIRK, MD 20754  
 PH: 301-855-8300  
 FX: 410-257-7579  
 WWW.VICTORSTANLEY.COM
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. FRAME COLOR: BLACK; SLAT COLOR: BLACK
4. FINISH: POWDER COAT
5. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD FILM COATING. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
6. ALL FASTENERS TO BE STAINLESS STEEL AND TAMPER RESISTANT

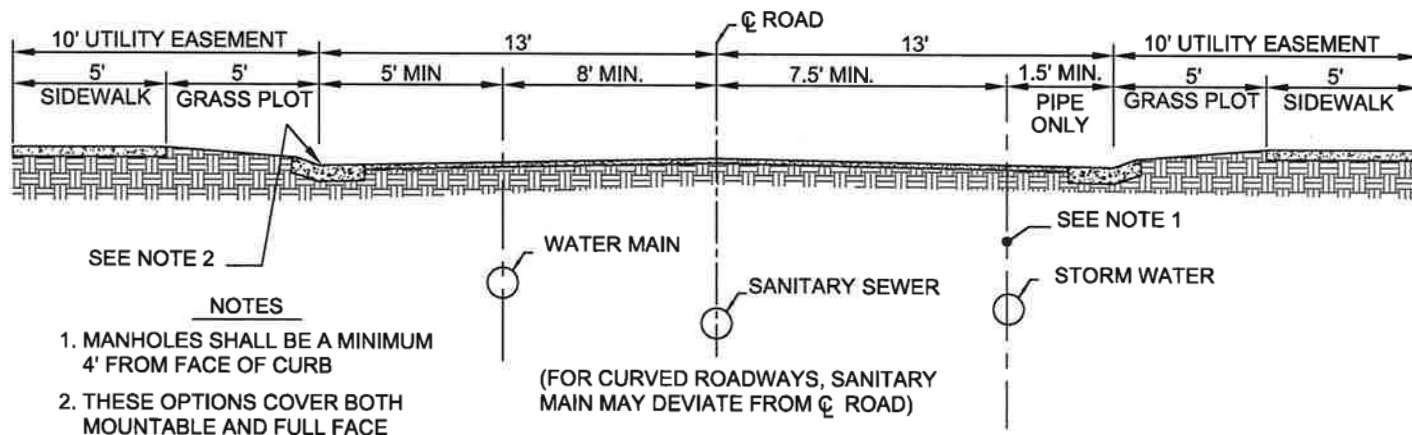
CITY OF SALISBURY SALISBURY, MD	APPROVED <i>12/28/18</i> DATE	<h2>STANDARD BENCH</h2>	DATE 01/24/17
	<i>Amanda Pollack</i> CITY ENGINEER		SCALE N.T.S.
			DWG NO STD60007
			STD NO 600.07

### OPTION A



- SEE NOTE 2
- NOTES**
1. MANHOLES SHALL BE A MINIMUM 4' FROM FACE OF CURB
  2. THESE OPTIONS COVER BOTH MOUNTABLE AND FULL FACE CURB CONSTRUCTION.

### OPTION B



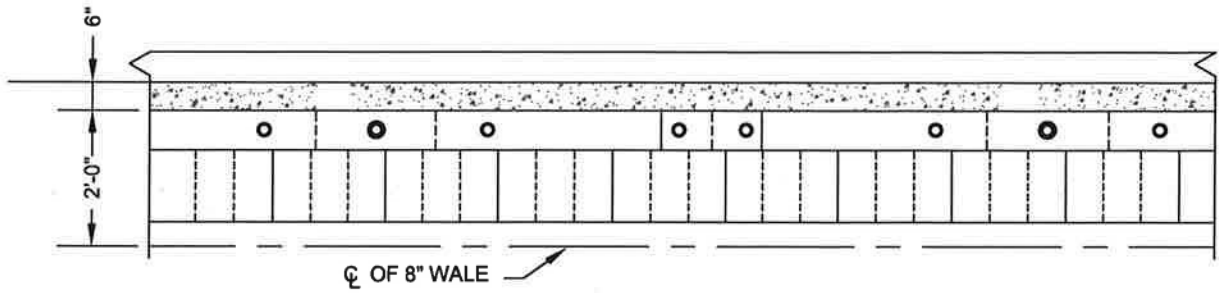
- SEE NOTE 2
- NOTES**
1. MANHOLES SHALL BE A MINIMUM 4' FROM FACE OF CURB
  2. THESE OPTIONS COVER BOTH MOUNTABLE AND FULL FACE CURB CONSTRUCTION.

CITY OF SALISBURY  
SALISBURY, MD

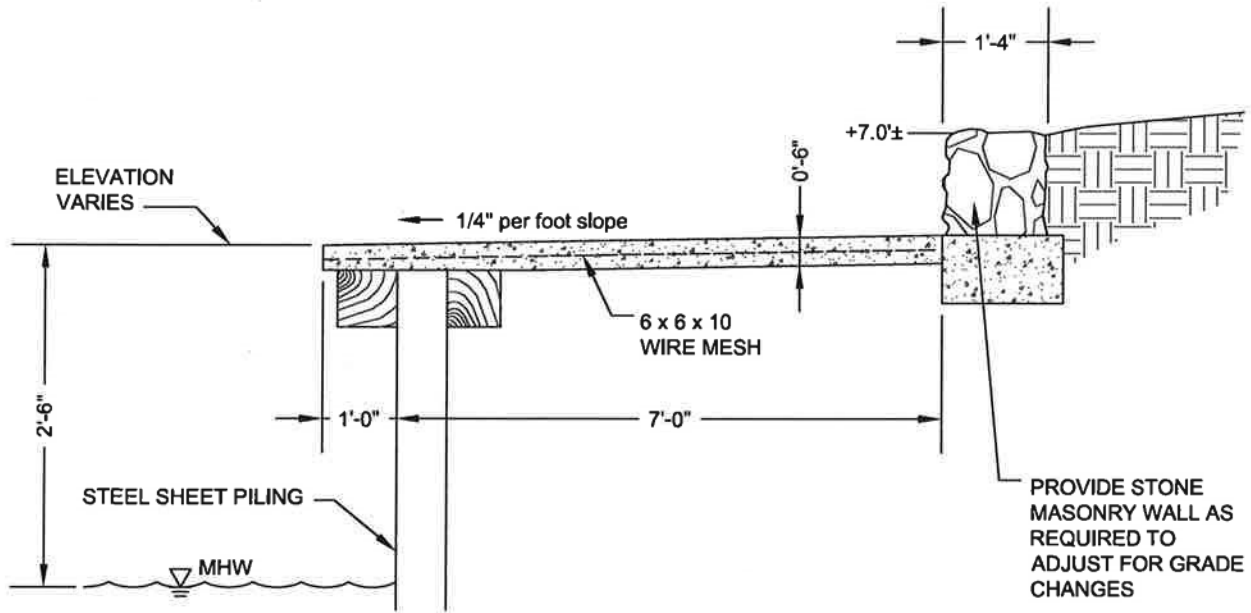
APPROVED  
*1/2/18*  
DATE  
*Amanda Pollack*  
CITY ENGINEER

SAMPLE UTILITY SEPARATION  
TYPICAL 26' LOCAL STREET

DATE	11/08/2006
SCALE	NONE
DWG NO.	STD60009
STD. NO.	600.09



ELEVATION



CROSS SECTION

NOTES:

1. RIVERWALK SURFACE SHALL BE STAMPED, COLORED CONCRETE. THE SURFACE SHALL HAVE A FORMED WOOD GRAIN TEXTURE AND THE CONCRETE SHALL BE COLORED GRAY. THE WOOD GRAIN PATTERN SHALL AS BE CLASSIC WOOD TEXTURE MAT, FM-8700 S/O MANUFACTURED BY BRICKFORM, SOLOMON COLORS, INC. OR APPROVED EQUIVALENT
2. BENCHES AND TRASH RECEPTACLES SHALL BE PLACED AT A MAXIMUM OF EVERY 200 FEET ALONG THE LENGTH OF THE RIVERWALK. AT A MINIMUM, EACH PROPERTY SHOULD HAVE ONE BENCH AND ONE TRASH RECEPTACLE. BENCHES AND TRASH RECEPTACLES SHALL MEET CITY STANDARDS 600.06 AND 600.07.
3. LIGHTING SHALL BE PROVIDED PER CITY STANDARD 600.01.

CITY OF  
SALISBURY  
SALISBURY, MD

APPROVED  
*1/2/18*  
*Amanda Pollack* DATE  
CITY ENGINEER

RIVERWALK

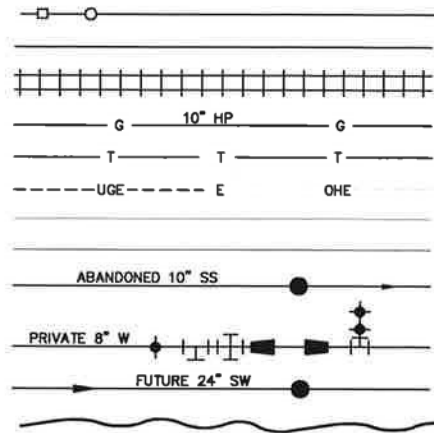
DATE	6/18/15
SCALE	NONE
DWG. NO.	STD60012
STD. NO.	600.12

MISCELLANEOUS

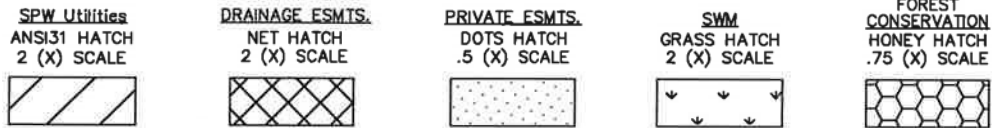
- CORPORATE LIMIT
- EASEMENT LINE
- PROPERTY LINE W/BOUNDARY MARKERS
- EDGE OF PAVEMENT
- RAILWAYS
- GAS MAINS
- TELEPHONE
- ELECTRIC: UNDERGROUND, OVERHEAD
- DITCH LINE/BOTTOM OF DITCH
- TOP OF BANK/DITCH
- ABANDONED, PRIVATE, FUTURE (SAN.) SEWER
- ABANDONED, PRIVATE, FUTURE WATER
- ABANDONED, PRIVATE, FUTURE STORMWATER
- HYDROGRAPHY (RIVERS & PONDS)

CORP. LIMIT

NOTE: CORPORATE LIMIT TEXT GOES ON THE CITY SIDE OF THE LINE

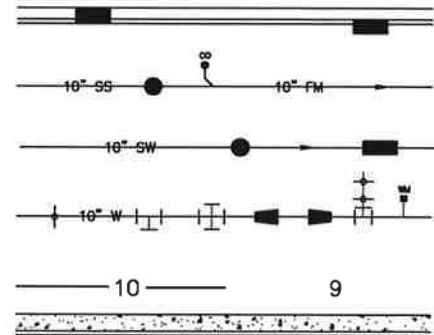


HATCH PATTERNS



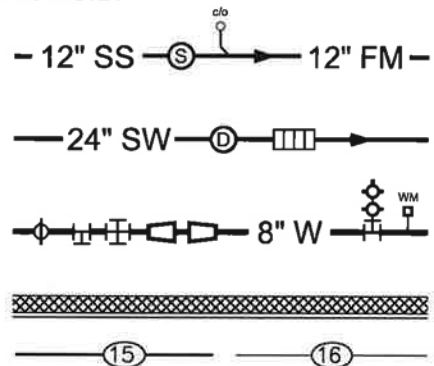
EXISTING WORK

- INLETS, CURB TYPE, GRATING TYPE
- SANITARY SEWER, MANHOLE, CLEAN OUT, FORCE MAIN & FLOW ARROW
- STORM WATER DRAIN, MANHOLE & FLOW ARROW
- WATER MAIN, VALVE, TEE, CROSS, INCREASER, REDUCER, FIRE HYDRANT & WATER METERS
- GRADES/CONTOUR LINES (INDEX, INTERMEDIATE)
- CURB & SIDEWALK



PROPOSED / NEW WORK / AS-BUILT

- SANITARY SEWER, MANHOLE, CLEAN OUT, FLOW ARROW & FORCE MAIN
- STORM WATER DRAIN, MANHOLE GRATE INLET & FLOW ARROW
- WATER MAIN, VALVE, TEE, CROSS, INCREASER, REDUCER, FIRE HYDRANT & WATER METER
- CURB & SIDEWALK
- GRADES/CONTOUR LINES (INDEX, INTERMEDIATE)



CITY OF SALISBURY  
SALISBURY, MD

APPROVED  
1/2/18  
Amanda Pollack  
CITY ENGINEER

CAD STANDARDS  
FOR CONTRACT DRAWINGS

DATE 4/05/99  
SCALE NONE  
DWG. NO. STD60021  
STD. NO. 600.21