

City of Salisbury *Maryland*

Public Works



CONSTRUCTION
STANDARDS

City of Salisbury



MARYLAND



125 NORTH DIVISION STREET
SALISBURY, MARYLAND 21801
Tel: 410-548-3170
Fax: 410-548-3107

JAMES IRETON, JR.
MAYOR

TOM STEVENSON
ACTING CITY ADMINISTRATOR

MICHAEL S. MOULDS, P.E.
DIRECTOR OF PUBLIC WORKS

January 1, 2014

The City of Salisbury Department of Public Works has prepared a book of Construction Standards to be utilized by all Engineers, Land Surveyors and Contractors involved with roadway and utility construction within the jurisdiction of the City of Salisbury.

This book known as "Construction Standards" is available for a fee of fifteen dollars (\$15.00) for material and printing costs. Alternatively, this book, along with the "Construction and Material Specifications for Utilities and Roadway Construction" book is available in pdf format on a CD-ROM for a fee of ten dollars (\$10.00). For either option, there is a \$3.00 fee for postage and handling.

The purchaser of this book shall note that the City intends to update sections of this book as needed. It will be the purchaser's responsibility to obtain the latest revision(s) at the above address. Each specification will be dated with the latest revision date. Revisions may be obtained by providing an email address.

Individual Construction Standards revisions will not be mailed, however a complete Construction Standards book can be obtained by mail by submitting the purchase order form and check to the above address. All checks shall be made payable to the City of Salisbury.

Purchase/Order Form:

I wish to receive the following items mailed to me at the address below (check one):

_____ Enclosed please find \$18.00 for the complete "Construction Standards" book.

_____ Enclosed please find \$13.00 for the CD-ROM of the "Construction Standards" and the "Construction and Material Specifications for Utilities and Roadway Construction" book.

Company Name: _____

Contact Name: _____

Mailing Address: _____

Email Address: _____

Phone No: _____ Date: _____

City of Salisbury



MARYLAND

Salisbury



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PREFACE

This book of "Construction Standards" has been prepared by the City of Salisbury - Department of Public Works to provide Engineers, Contractors and Developers with a catalog of Construction Standards authorized by the City of Salisbury.

Any Standards previously issued by the City of Salisbury - Department of Public Works 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 U.S.A. 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 Public Works
Government Office Building
125 North Division St. Rm. 202
Salisbury, Md. 21801- 4940

Telephone: 410-548-3170
Fax: 410-548-3107

Effective Date: 7-14-94
Latest Revision Date: 01-01-14

CONSTRUCTION STANDARDS

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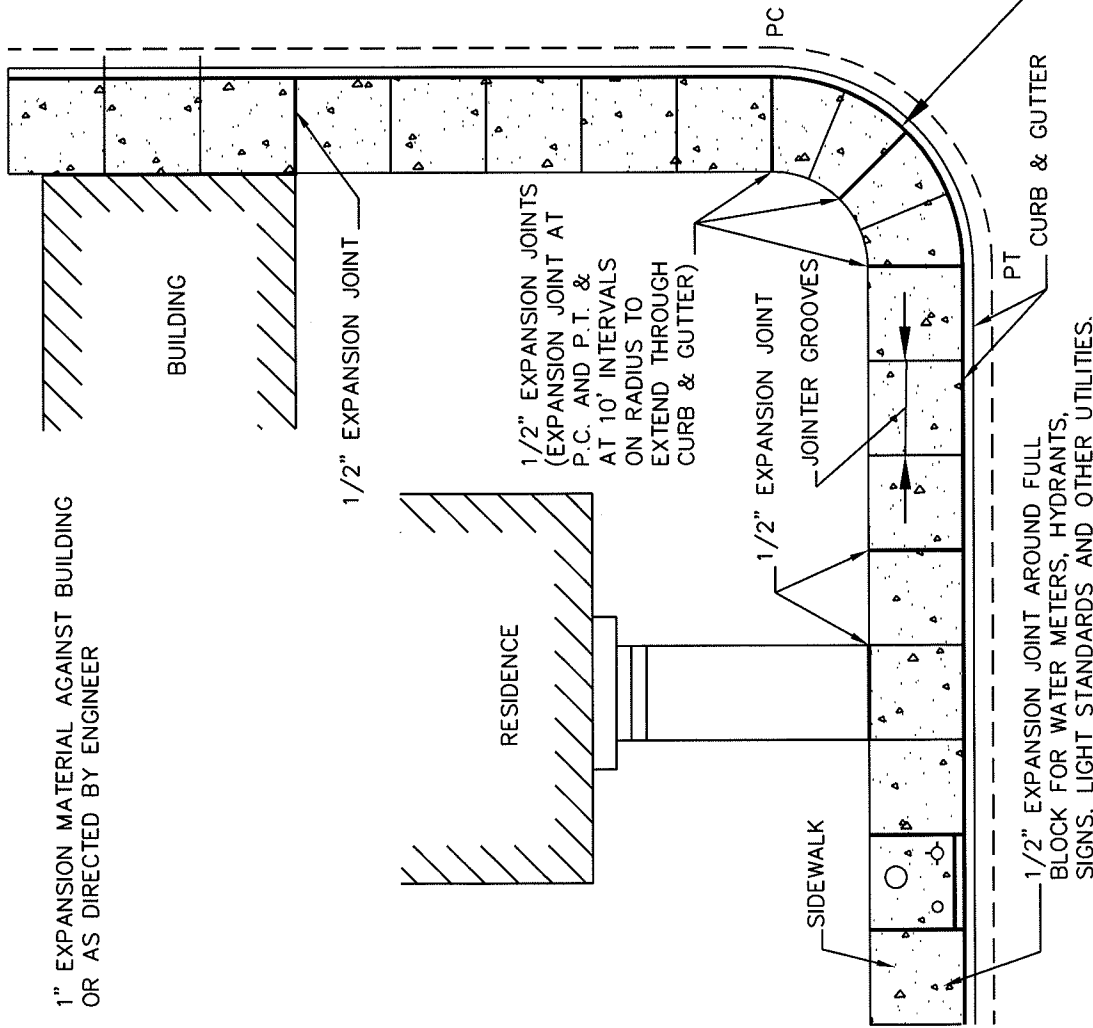
1. ALL EXPANSION MATERIAL SHALL BE OF A NON-EXTRUDING TYPE CONFORMING TO A.S.T.M. SPECIFICATION DESIGNATION D-544.
2. ALL EXPANSION JOINTS TO BE 1/2" WIDE X FULL THICKNESS OF CONCRETE UNLESS OTHERWISE SHOWN.
3. EXPANSION JOINTS SHALL BE PLACED AT 20' INTERVALS (MAX.) RADIAL JOINTS AT STREET. RETURNS 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.

1/2" EXPANSION JOINT BETWEEN BACK OF CURB AND SIDEWALK.

REVISED 01/01/14



APPROVED

1/1/14

DATE

Amanda Black

CITY ENGINEER

CITY OF SALISBURY

SALISBURY, MD

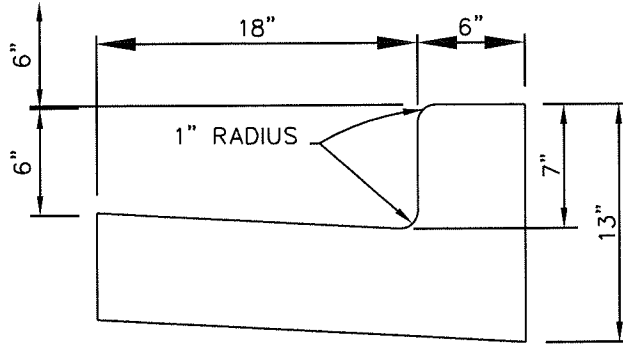
CURB, GUTTER, AND SIDEWALK EXPANSION JOINTS

DATE 1/13/77

SCALE N.T.S.

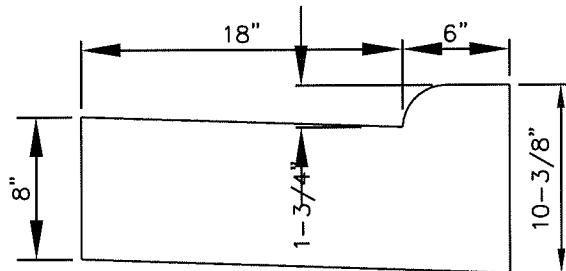
DWG NO. STD10010

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.

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CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Pollack
CITY ENGINEER

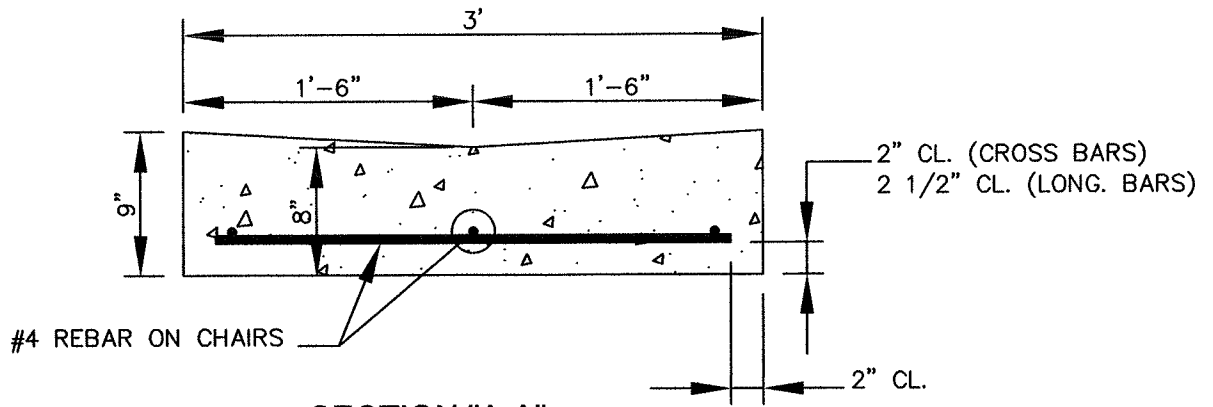
STANDARD DETAILS FOR
CURB & GUTTER

DATE 3/16/95

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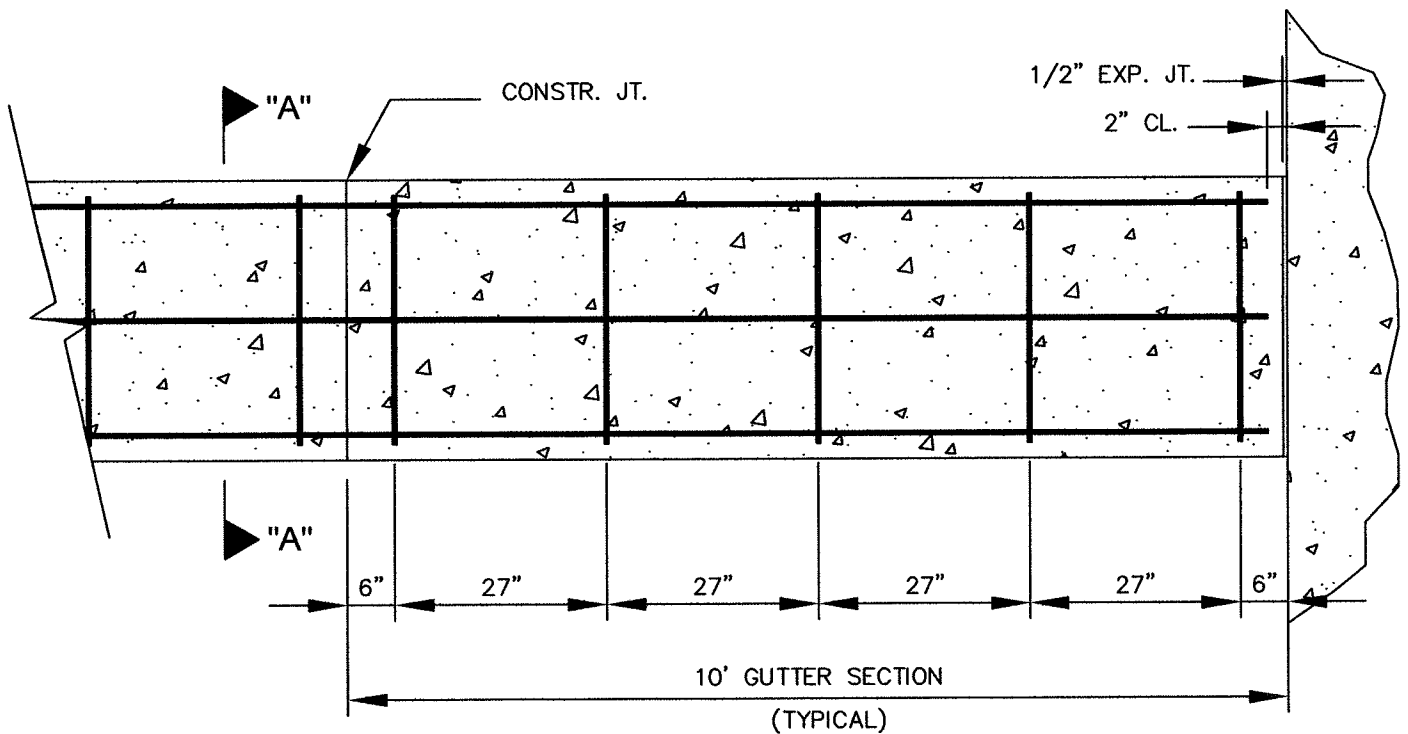
STD. NO. 100.11



SECTION "A-A"

Scale: 1" = 1'

NOTE: 6" OF CRUSHED STONE GAB WILL BE PLACED UNDER THE VEE-GUTTER



PLAN

Scale: 1/2" = 1'

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.

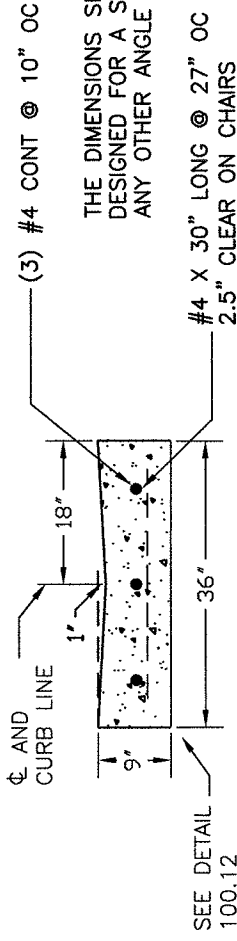
REVISED: 1/01/14

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SALISBURY, MD

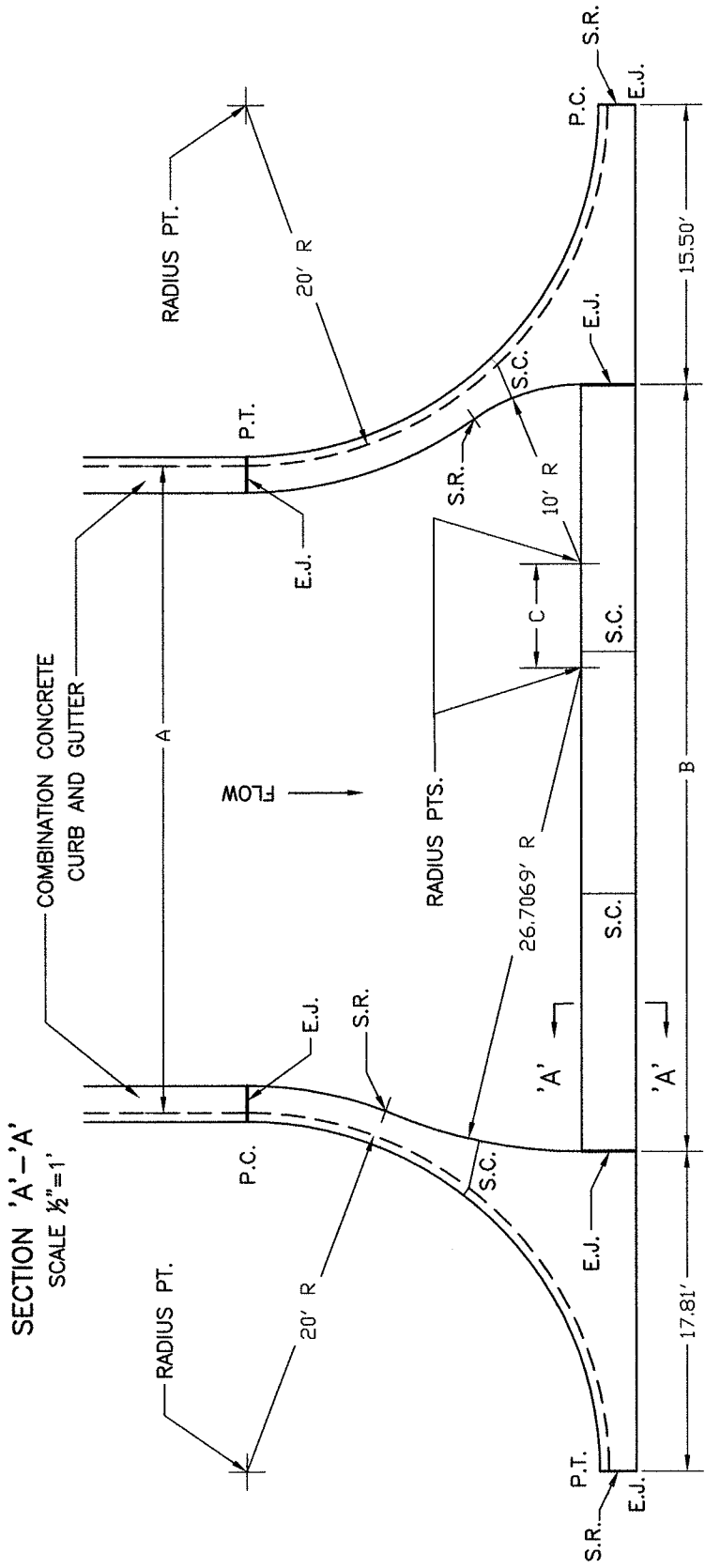
APPROVED
1/1/14
DATE
Amanda Pollack
CITY ENGINEER

STANDARD DETAIL FOR
VALLEY GUTTER
CONSTRUCTION

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



THE DIMENSIONS SHOWN ON THIS TYPICAL INTERSECTION ARE DESIGNED FOR A STREET INTERSECTION CONSTRUCTED AT 90°. AT ANY OTHER ANGLE THE DIMENSIONS WILL CHANGE ACCORDINGLY.



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

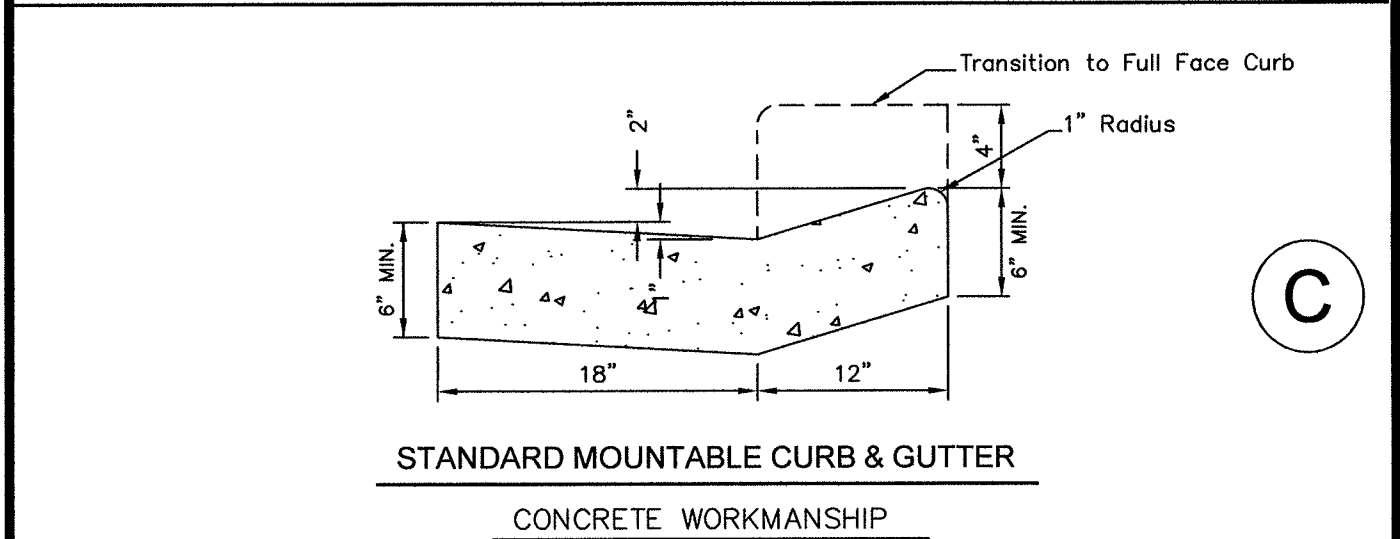
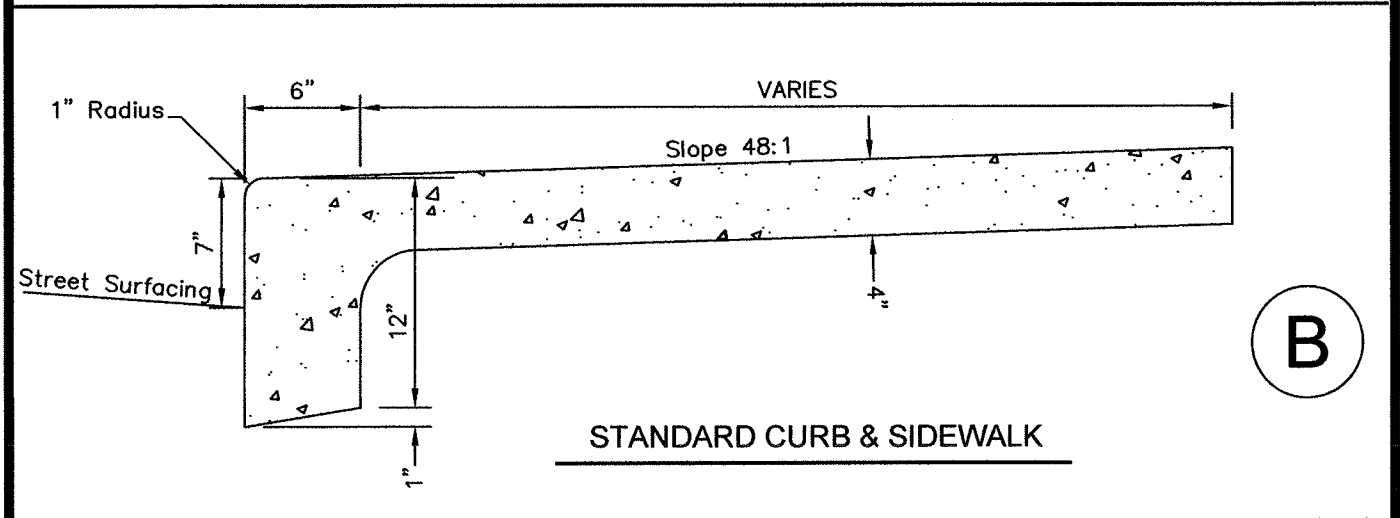
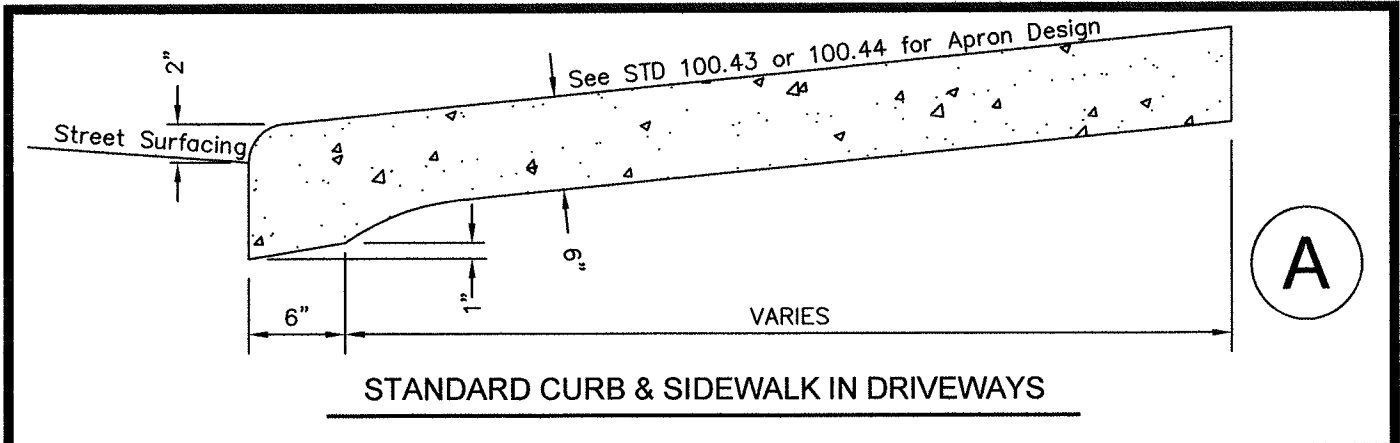
- NOTES:
1. CONCRETE - MD, S.H.A. MIX NO. 3
 2. FINISH - LIGHT TO MEDIUM BROOM FINISH
 3. E.J. = EXPANSION JOINT WITH PREFORMED JOINT FILLER (FULL DEPTH OF CONCRETE)
 4. CONTROL JOINTS AT 10' O.C. MAX. IN VALLEY GUTTER AND CURB & GUTTER.
 5. S.C. = SAW CUTTING TO 1/3 DEPTH
 6. SEE CITY OF SALISBURY STANDARD 100.12 FOR VALLEY GUTTER DESIGN
 7. S.R. = LIMITS OF STEEL REINFORCEMENT

CITY OF SALISBURY
SALISBURY, MD

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1/1/14
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DATE
CITY ENGINEER

CONCRETE VALLEY GUTTER

DATE 1/01/14
SCALE N.T.S.
DWG. NO. STD10014
STD. NO. 100.14



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

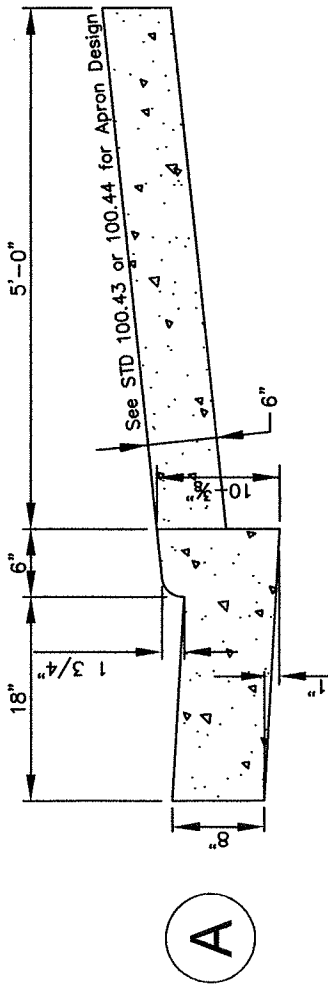
REVISED 1/01/14

CITY OF
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SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
CITY ENGINEER

MONOLITHIC CURB &
SIDEWALK AND MOUNTABLE
CURB & GUTTER DETAIL

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

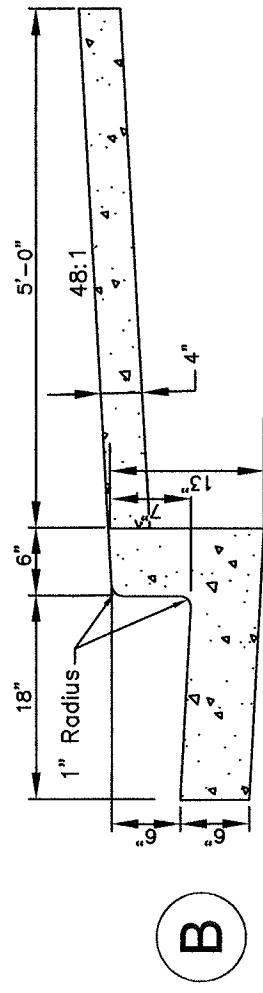


STANDARD CURB & GUTTER AND SIDEWALK IN DRIVEWAYS

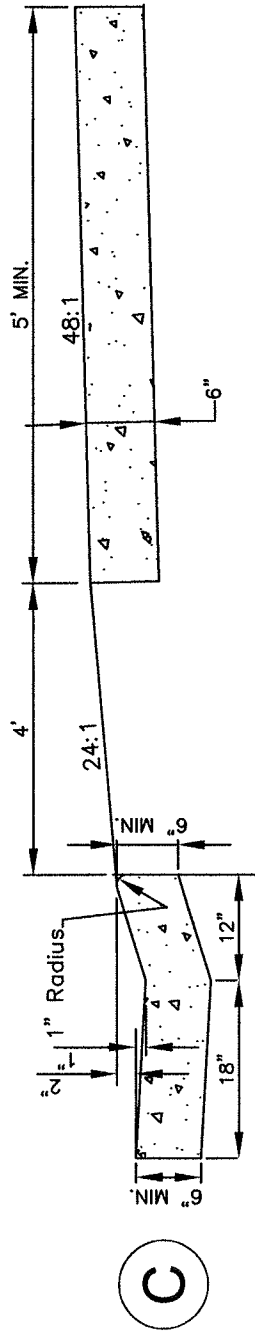
CONCRETE WORKMANSHIP

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.

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



STANDARD CURB & GUTTER AND SIDEWALK



MOUNTABLE CURB & GUTTER, GRASS PLOT AND SIDEWALK

REVISED 1/01/14

DATE 1/09/53

SCALE NONE

DWG NO. STD10025

STD. NO 100.25

STANDARD DETAILS FOR
CURB & GUTTER AND
SIDEWALK CONSTRUCTION

APPROVED

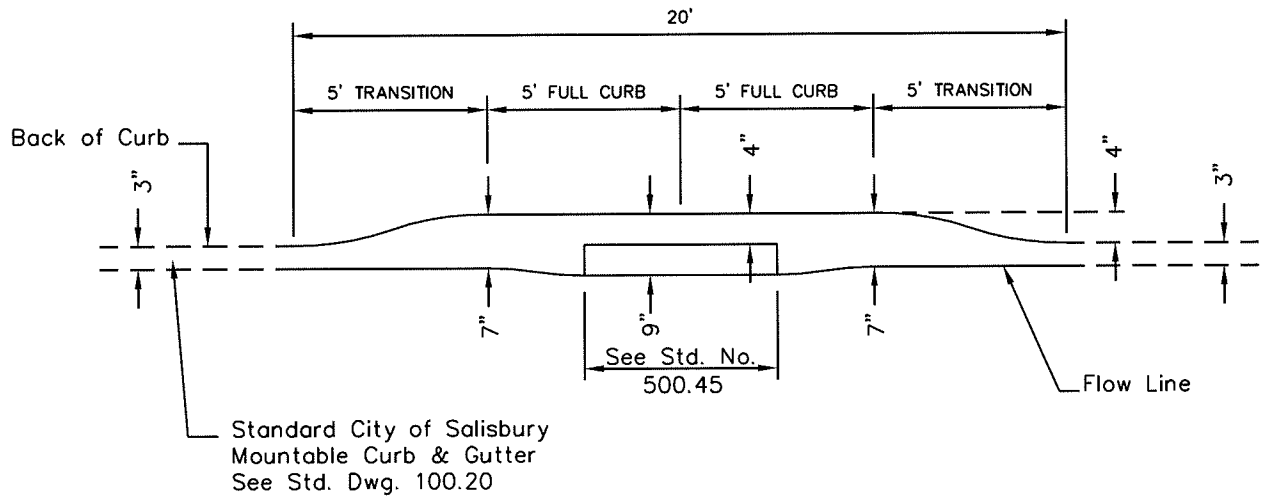
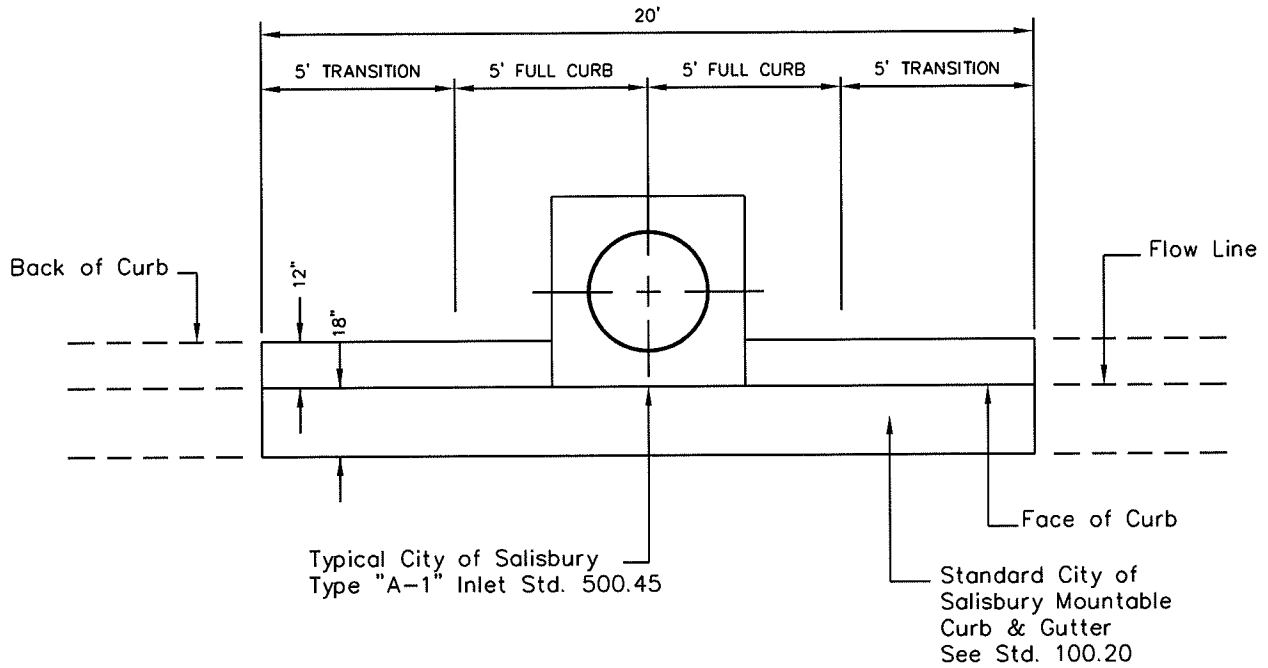
1/1/14

DATE

Amanda Pollack
CITY ENGINEER

CITY OF SALISBURY
SALISBURY, MD

TOP VIEW



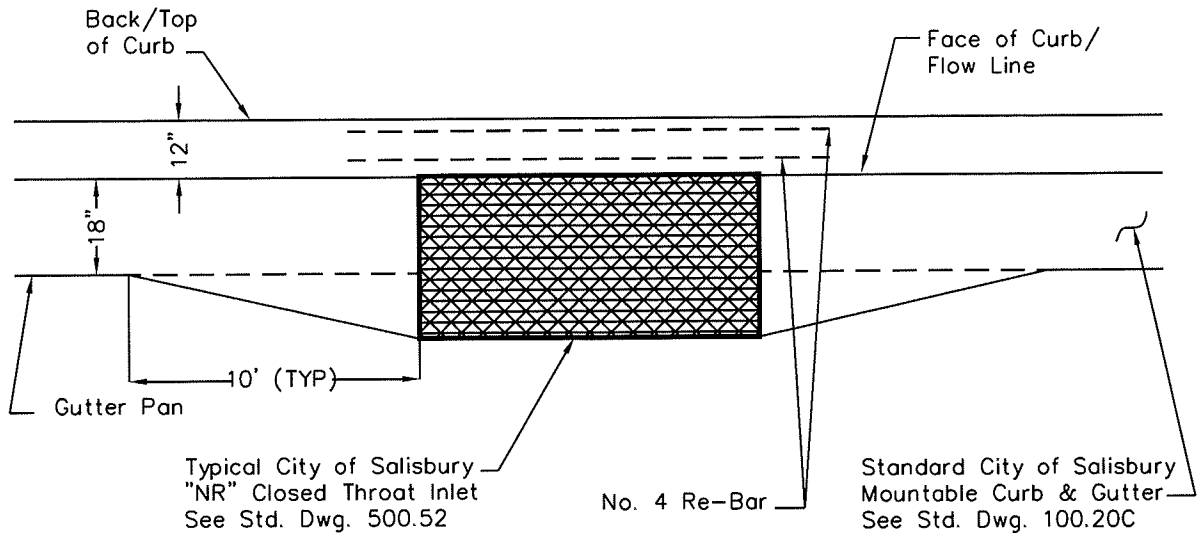
FRONT VIEW

CONCRETE WORKMANSHIP

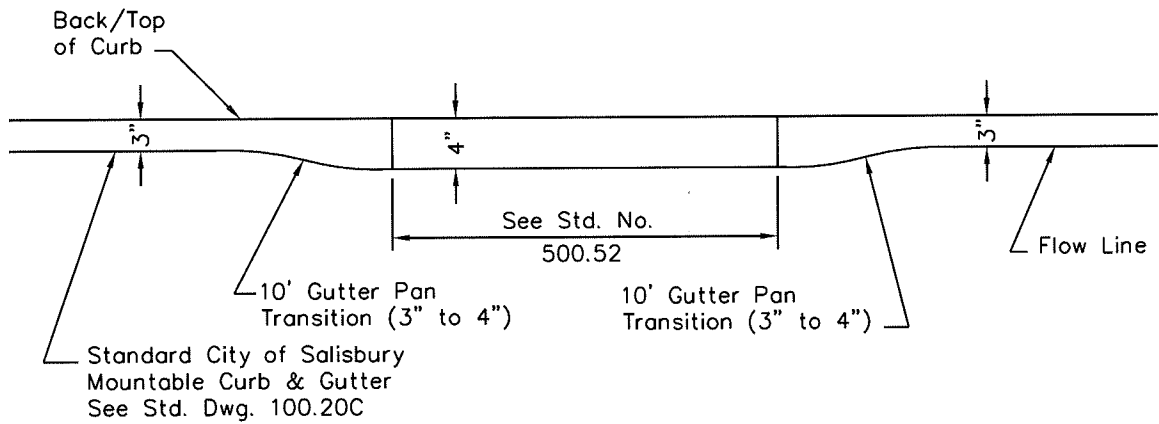
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REVISED: 01/01/14

CITY OF SALISBURY SALISBURY, MD	APPROVED	TYPICAL MOUNTABLE CURB INLET DETAIL IN LOW POINT OF STREET	DATE
	1/1/14		8/18/77
	<i>Amanda Pollock</i> CITY ENGINEER		SCALE
	DATE		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

REVISED: 01/01/14

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SALISBURY, MD

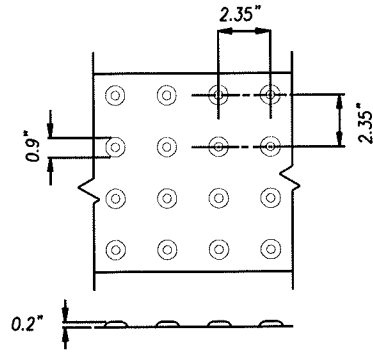
APPROVED
1/1/14
Amanda Pollack
CITY ENGINEER

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

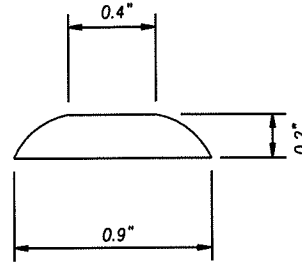
DATE	7/12/90
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STD. NO.	100.35

MAT DETAILS

SEE PLACEMENT GUIDELINES BELOW

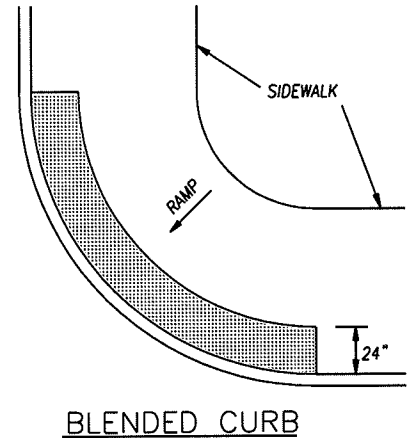
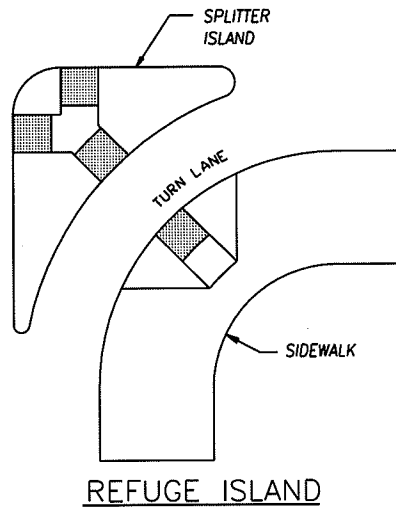
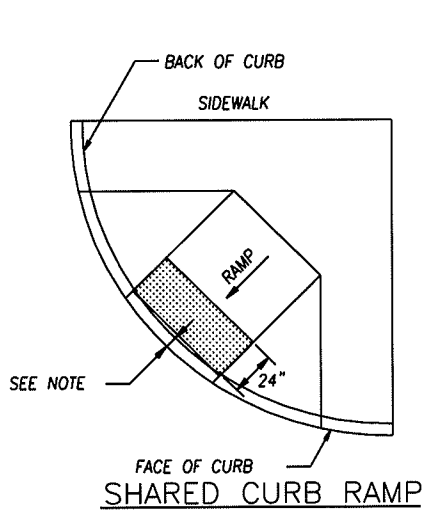


DOME SPACING



DOME SECTION

PLACEMENT GUIDELINES



WHERE ISLANDS OR MEDIANS ARE LESS THAN 6 FEET WIDE, THE DETECTABLE WARNING SHOULD EXTEND ACROSS THE FULL LENGTH OF THE CUT THROUGH THE ISLAND OR MEDIAN

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.

REVISED: 01/01/14

**CITY OF
SALISBURY
SALISBURY, MD**

APPROVED

11/1/14

DATE

Amade Pollack
CITY ENGINEER

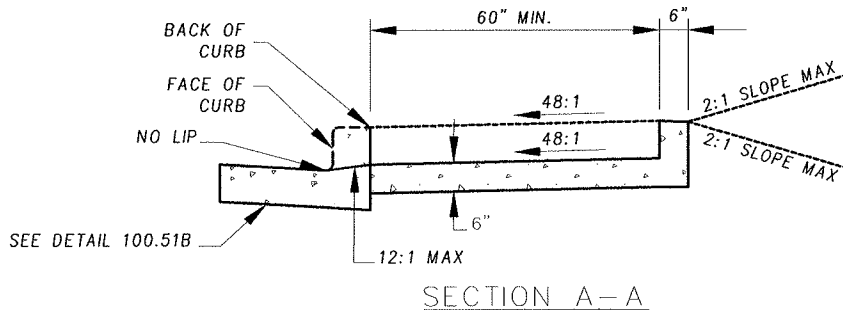
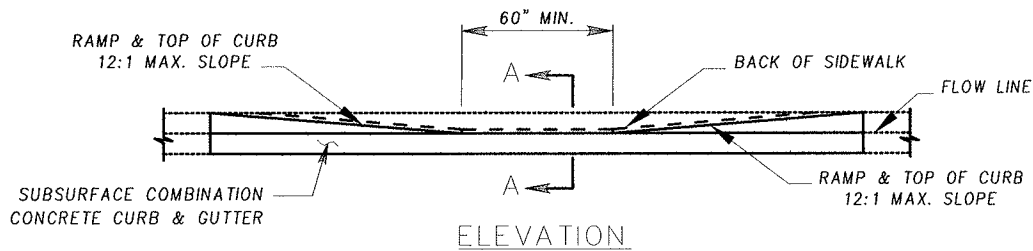
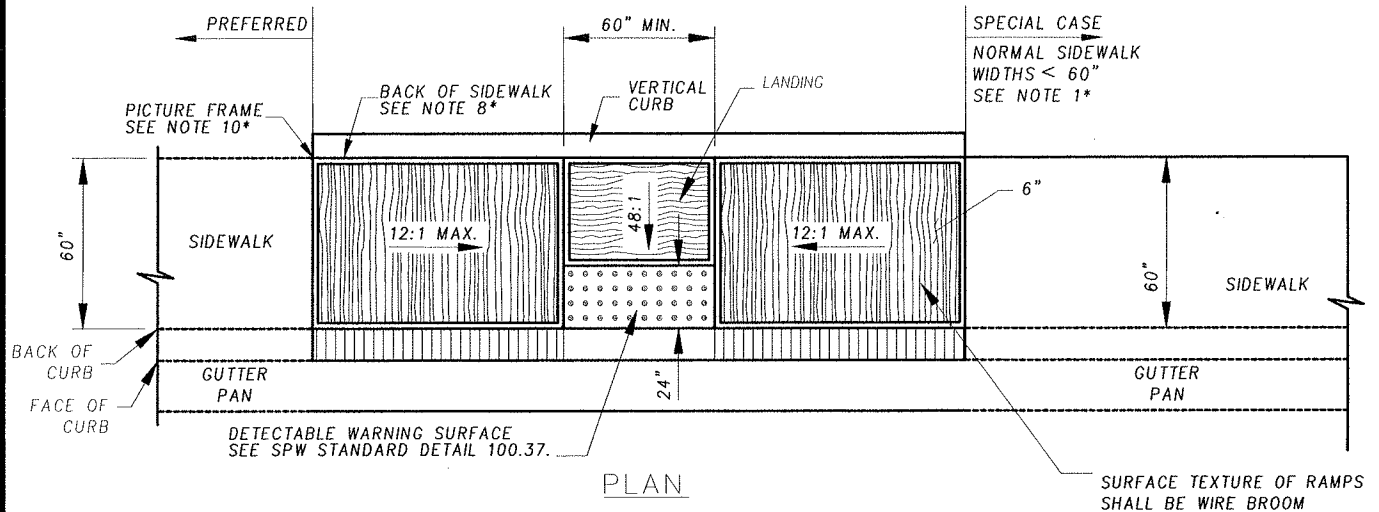
**DETECTABLE WARNING
SURFACE DETAILS**

DATE 5/27/2004

SCALE NONE

DWG. NO. STD10037

STD. NO. 100.37



NOTES

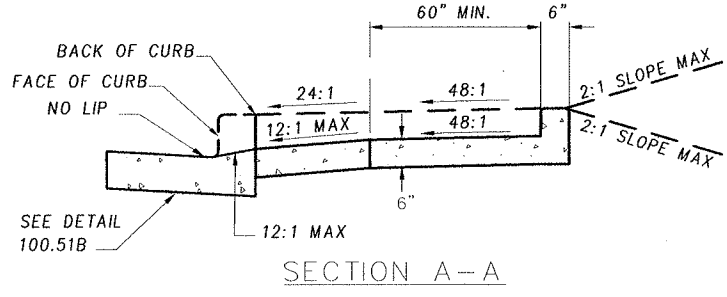
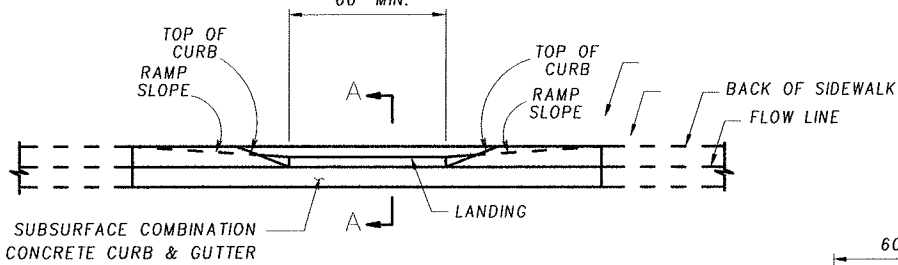
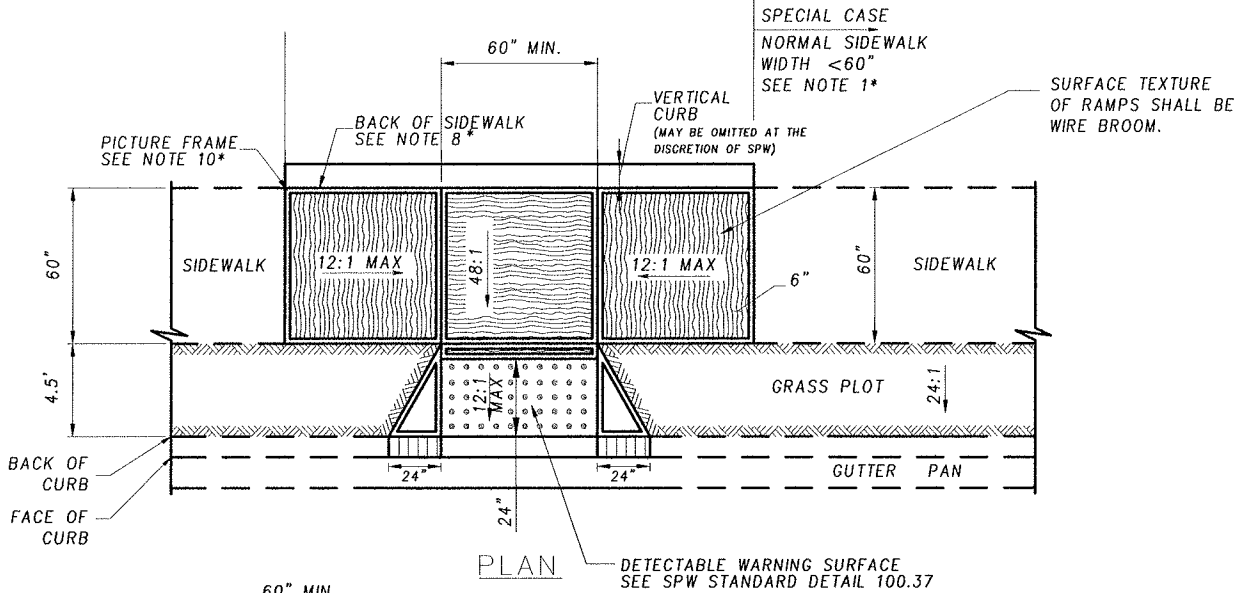
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP 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 SPW 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. ALL RAMPS & LANDINGS WILL BE A MINIMUM OF 6" THICK.
6. 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).
7. ALL SIDEWALK RAMP DIMENSIONS SHALL BE MEASURED AT OR FROM 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 THE SHA PUBLICATION.
9. ALL SIDEWALK, RAMPS AND LANDINGS WILL BE PICTURE FRAMED 1½" TO 2".

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pockack
CITY ENGINEER

**VERTICAL CURB
SIDEWALK RAMPS**

DATE 1/01/14
SCALE N.T.S.
DWG. NO. STD10040
STD. NO. 100.40



NOTES

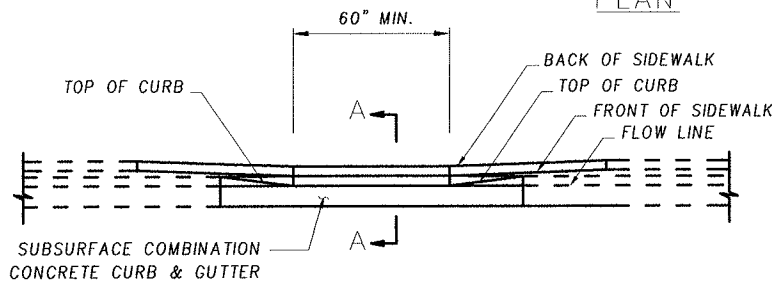
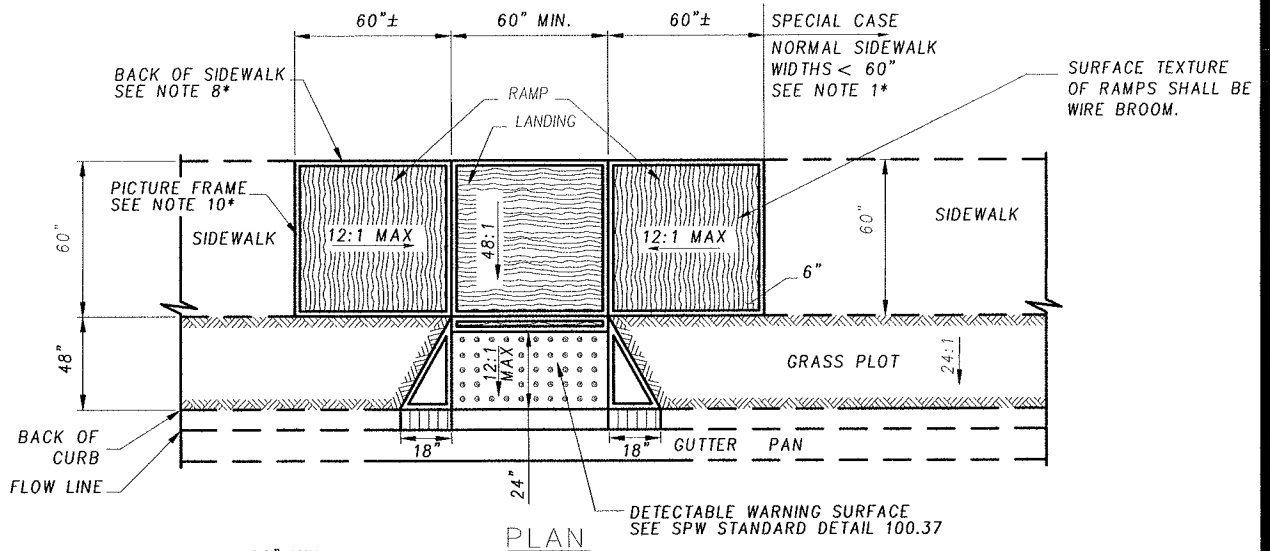
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP 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 SPW 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 THE SHA PUBLICATION.
10. ALL SIDEWALK, RAMPS AND LANDINGS WILL BE PICTURE FRAMED 1 1/2" 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

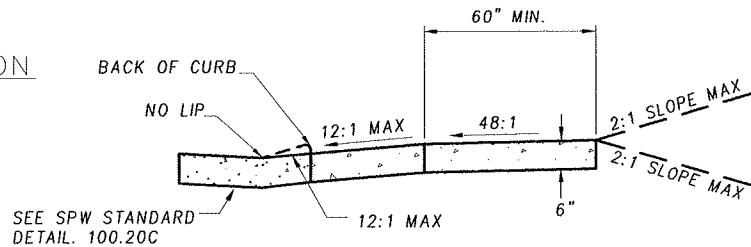
APPROVED
1/1/14
DATE
Amanda Pollack
CITY ENGINEER

**VERTICAL CURB &
GRASS PLOT
SIDEWALK RAMPS**

DATE 1/01/14
SCALE N.T.S.
DWG. NO. STD10041
STD. NO. 100.41



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 SPW 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 THE SHA PUBLICATION.
9. ALL SIDEWALKS, RAMPS AND LANDINGS WILL BE FINISHED WITH A 1½" TO 2" PICTURE FRAME.
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

1/1/14

Amanda Pollack
CITY ENGINEER

DATE

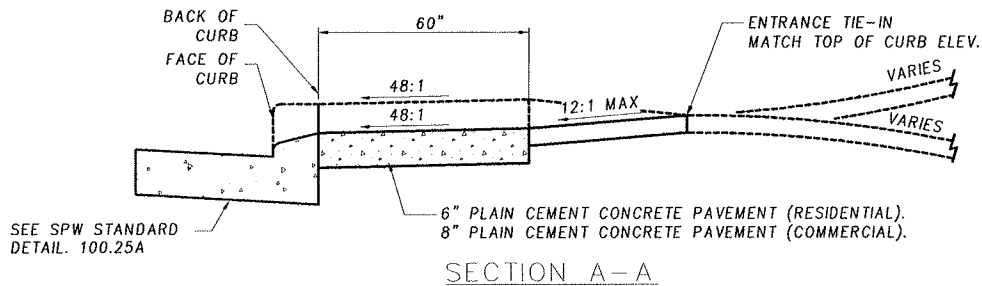
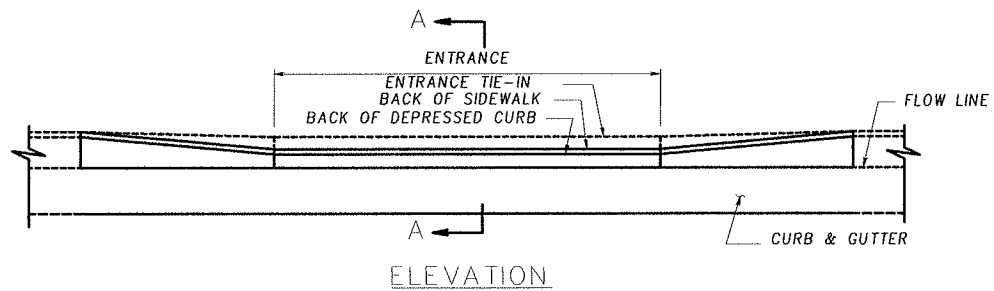
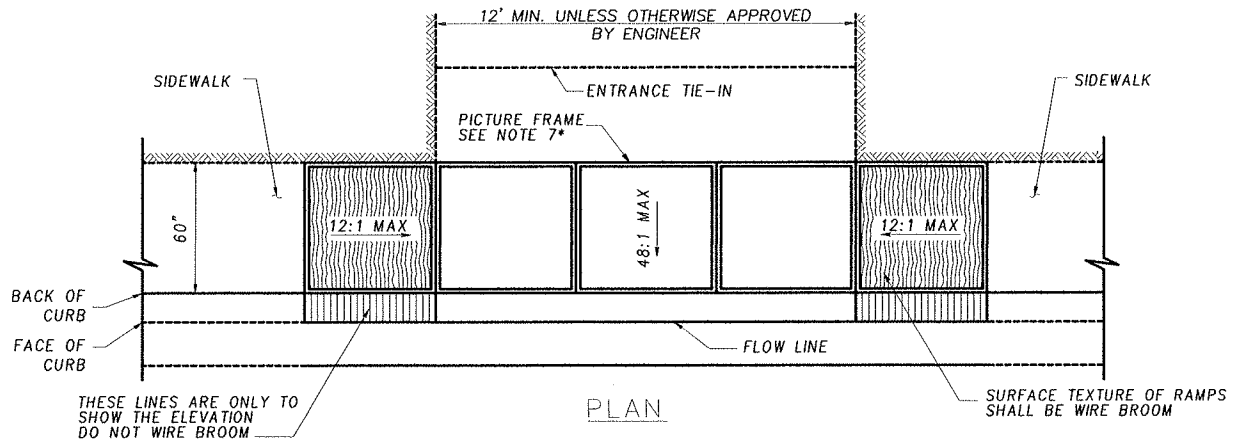
**MOUNTABLE CURB
SIDEWALK RAMPS**

DATE 1/01/14

SCALE N.T.S.

DWG. NO. STD10042

STD. NO. 100.42



NOTES

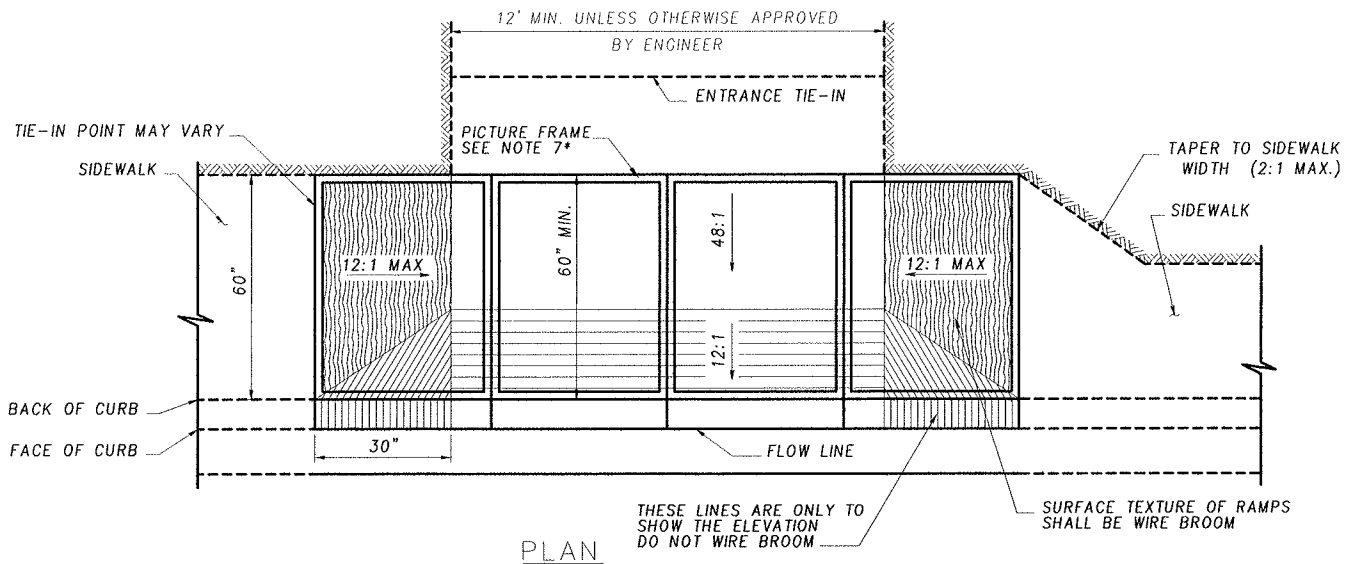
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE SLOPE ON THE RAMP 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 SPW 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 THE SHA PUBLICATION.
7. THE SIDEWALK WILL BE PICTURE FRAMED 1½" TO 2".

CITY OF
SALISBURY
SALISBURY, MD

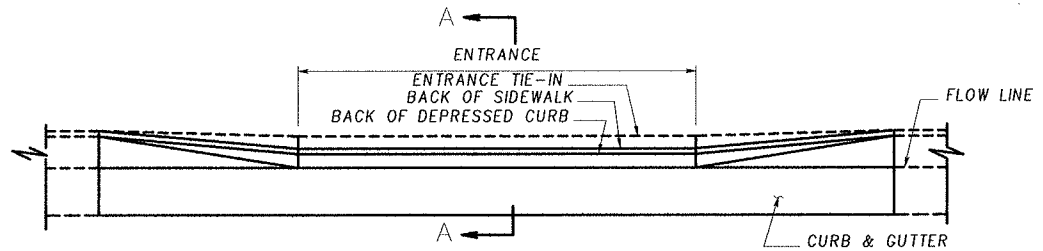
APPROVED
1/1/14
Amanda Pollack
DATE
CITY ENGINEER

CURBSIDE SIDEWALK
STANDARD ENTRANCE
RESIDENTIAL & COMMERCIAL
METHOD NO. 1

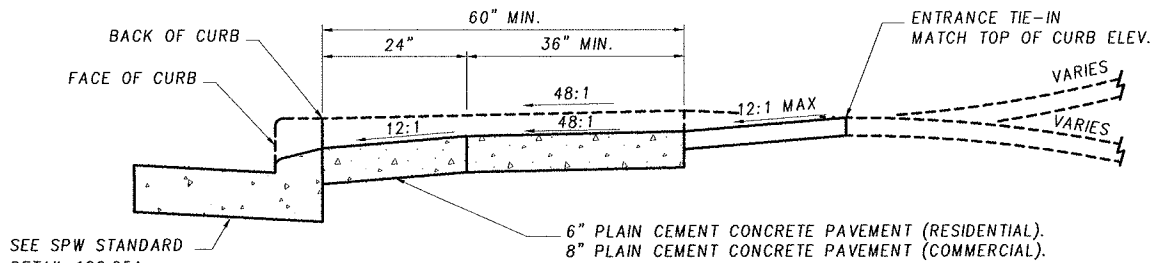
DATE 1/01/14
SCALE N.T.S.
DWG. NO. STD10043
STD. NO. 100.43



PLAN



ELEVATION



SECTION A-A

NOTES

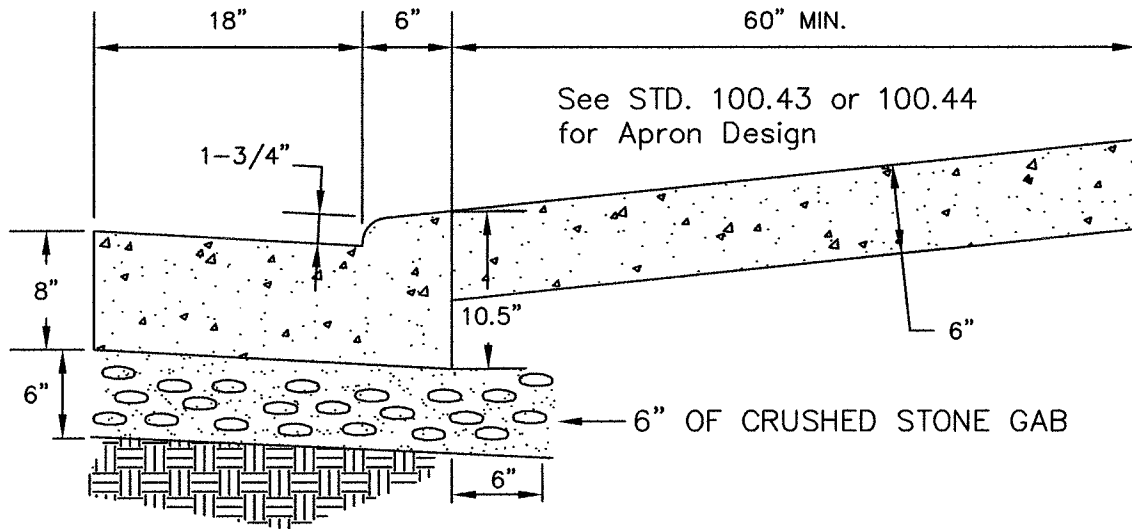
1. IF IT IS DETERMINED THAT FULL ADA COMPLIANCE IS TECHNICALLY INFEASIBLE OR DETERMINED TO BE UNREASONABLE TO THE DESIRED DEGREE AS DESCRIBED BY THE CITY OF SALISBURY OR IN THE SHA ADA GUIDELINES, A DESIGN WAIVER MUST BE REQUESTED AND APPROVED FOR EACH ELEMENT THAT IS NOT IN FULL COMPLIANCE.
2. NO TRAVERSABLE 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 SPW 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 THE SHA PUBLICATION.
7. THE SIDEWALK WILL BE PICTURE FRAMED 1½" TO 2".

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
CITY ENGINEER

CURBSIDE SIDEWALK
STANDARD ENTRANCE
RESIDENTIAL & COMMERCIAL
METHOD NO. 2

DATE 1/01/14
SCALE N.T.S.
DWG. NO. STD10044
STD. NO. 100.44



REVISED 1/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Pollack
CITY ENGINEER

SPECIAL CURB & GUTTER
AND SIDEWALK IN
INDUSTRIAL DRIVEWAYS

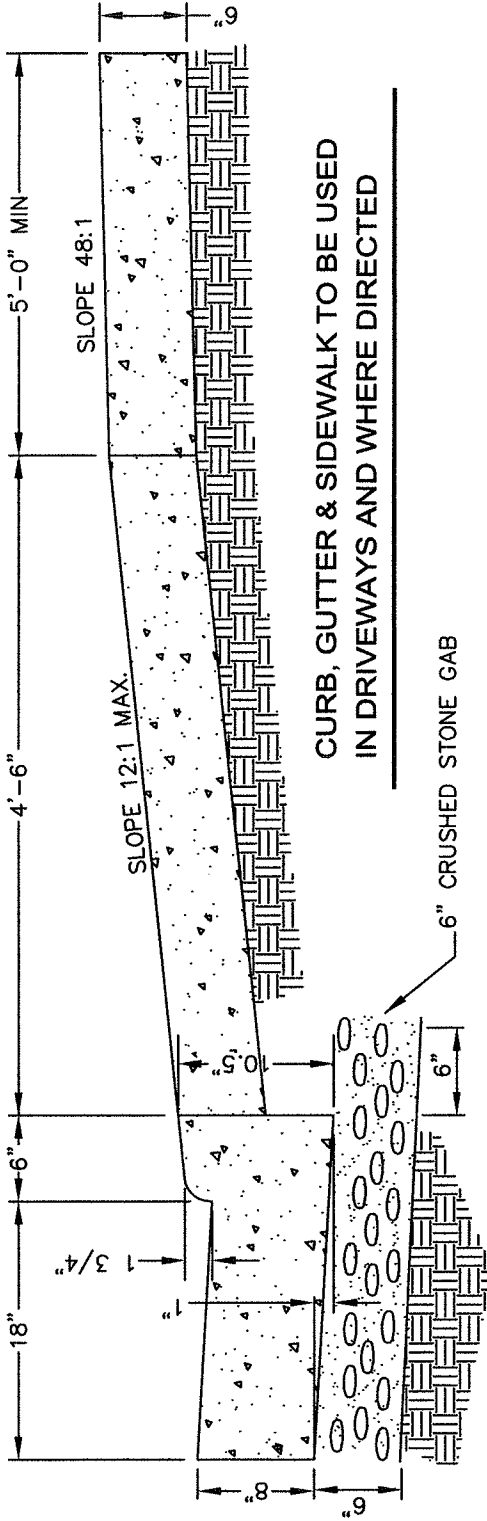
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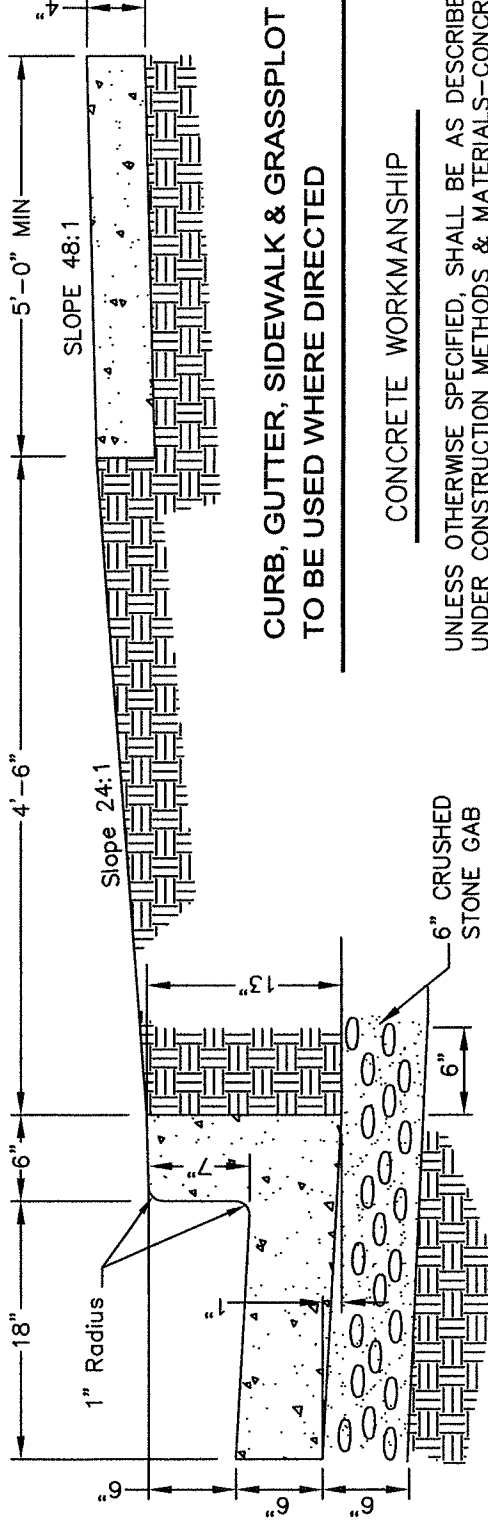
STD. NO. 100.50

A



CURB, GUTTER & SIDEWALK TO BE USED IN DRIVEWAYS AND WHERE DIRECTED

B



CURB, GUTTER, SIDEWALK & GRASSPLOT TO BE USED WHERE DIRECTED

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 1/01/14

CITY OF SALISBURY
SALISBURY, MD

APPROVED

1/1/14 DATE

Amenda Pollack CITY ENGINEER

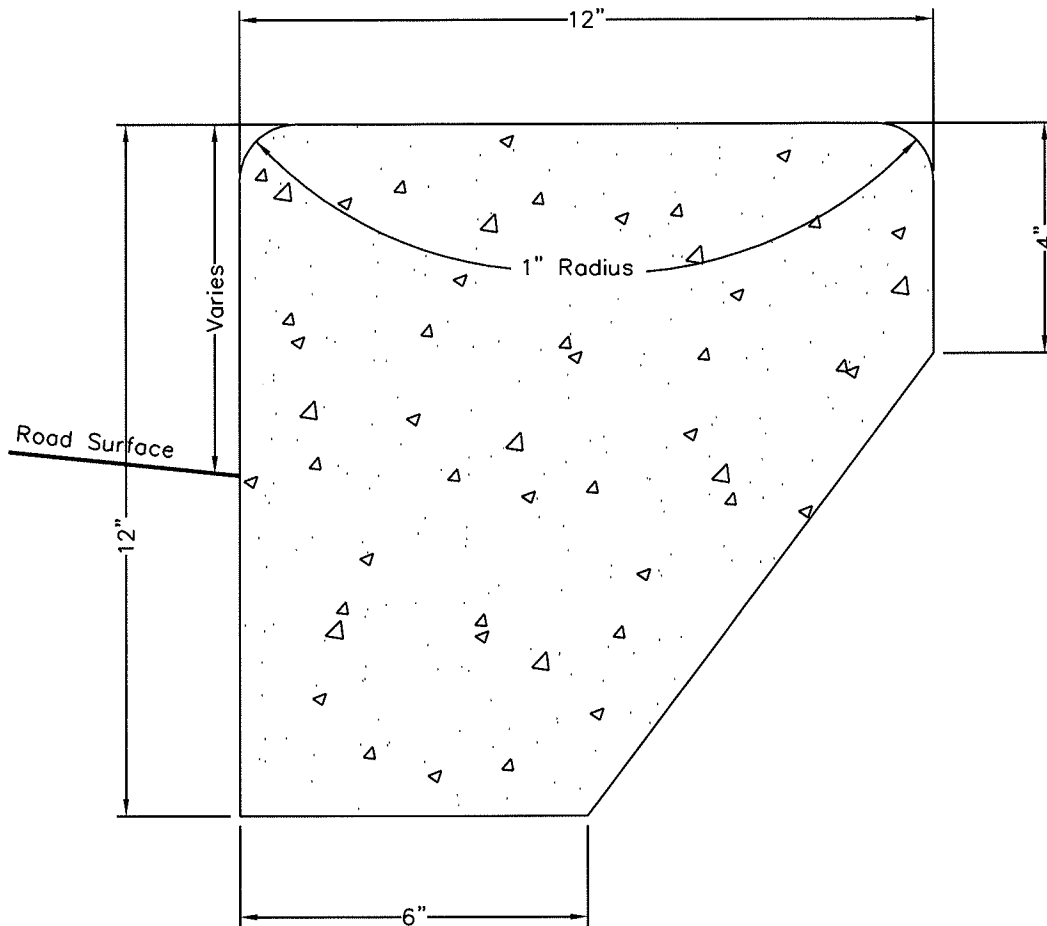
STANDARD DETAILS FOR
CURB, GUTTER, & SIDEWALK
WITH GRASSPLOT OR DRIVEWAY

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

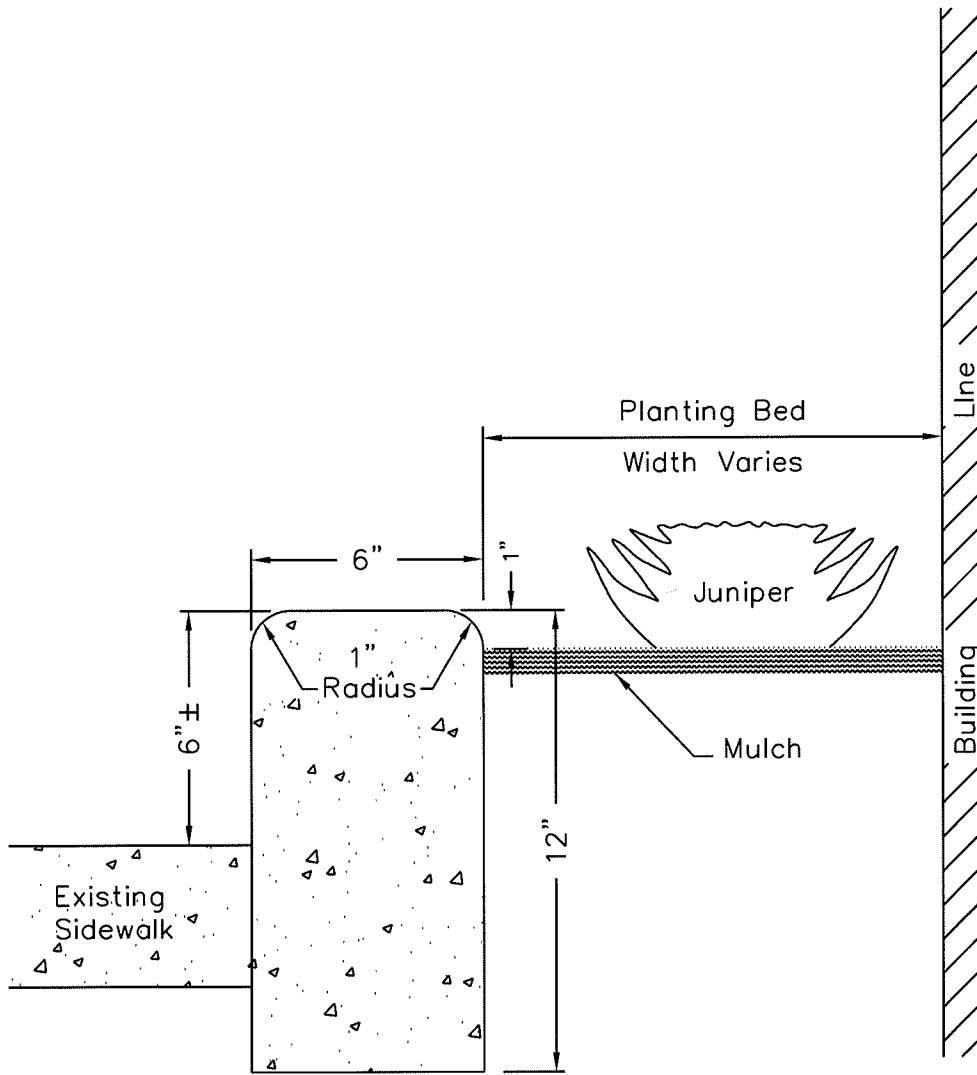
REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
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.

Revised: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

Amanda Pollock
CITY ENGINEER

DATE

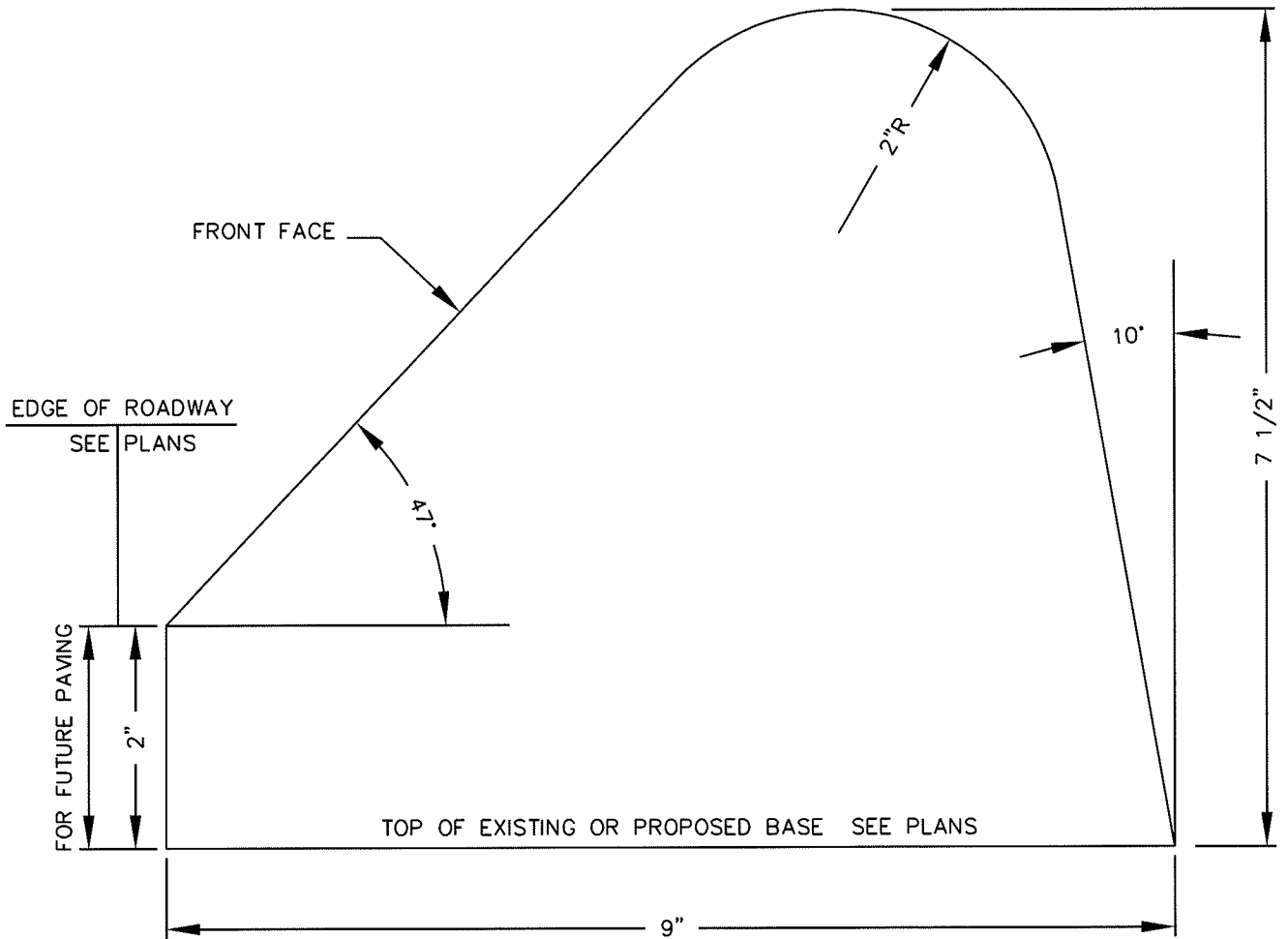
STANDARD DETAIL
FOR PLANTER CURB

DATE 2/3/83

SCALE NONE

DWG. NO. STD10053

STD. NO. 100.53



Revised: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

Amanda Pollack
CITY ENGINEER

DATE

STANDARD BITUMINOUS
CONCRETE CURB

DATE 3/10/87

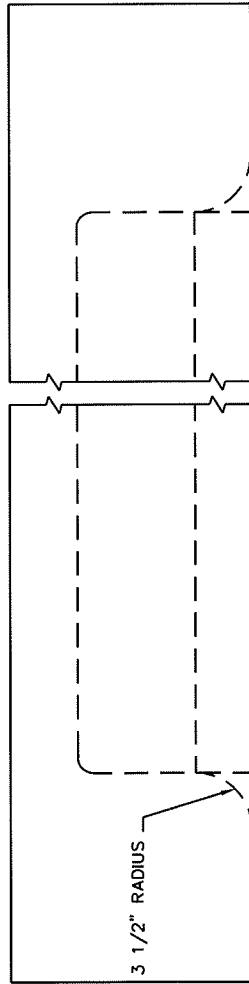
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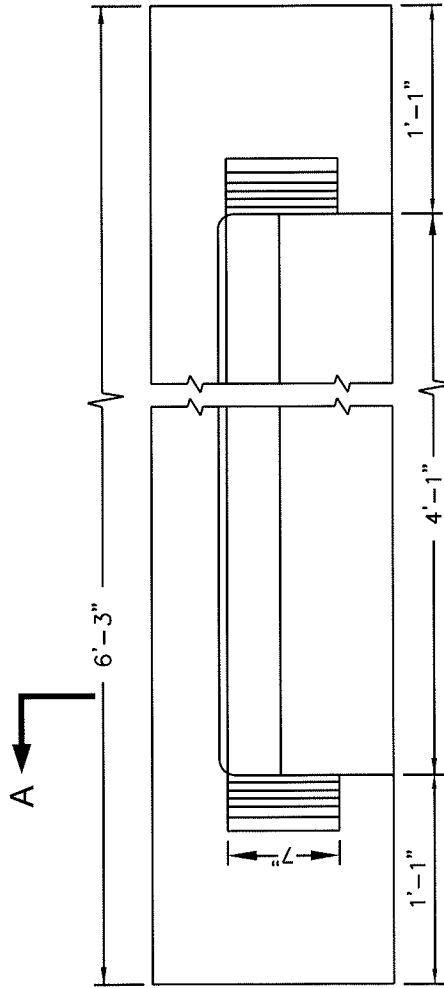
STD. NO. 100.54

CONCRETE WORKMANSHIP

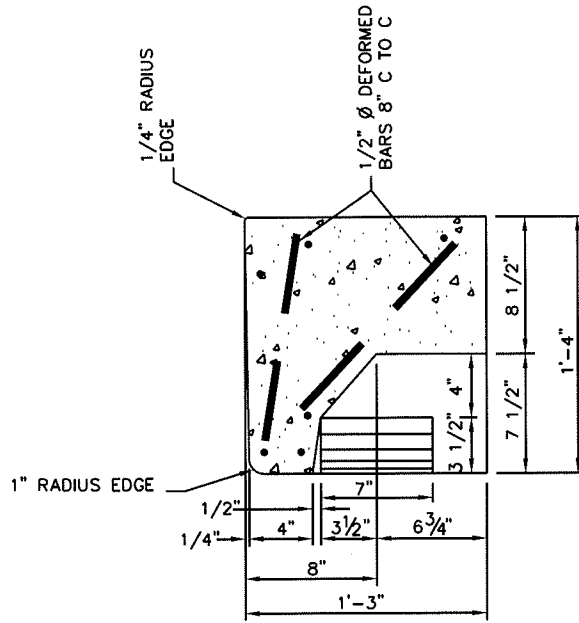
UNLESS OTHERWISE SPECIFIED, SHALL BE AS DESCRIBED UNDER CONSTRUCTION METHODS & MATERIALS-CONCRETE IN THE "CONSTRUCTION & MATERIALS SPECIFICATION FOR UTILITY AND ROADWAY CONSTRUCTION" MANUAL LATEST REVISION.



PLAN



FRONT ELEVATION



SECTION A-A

Revised: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

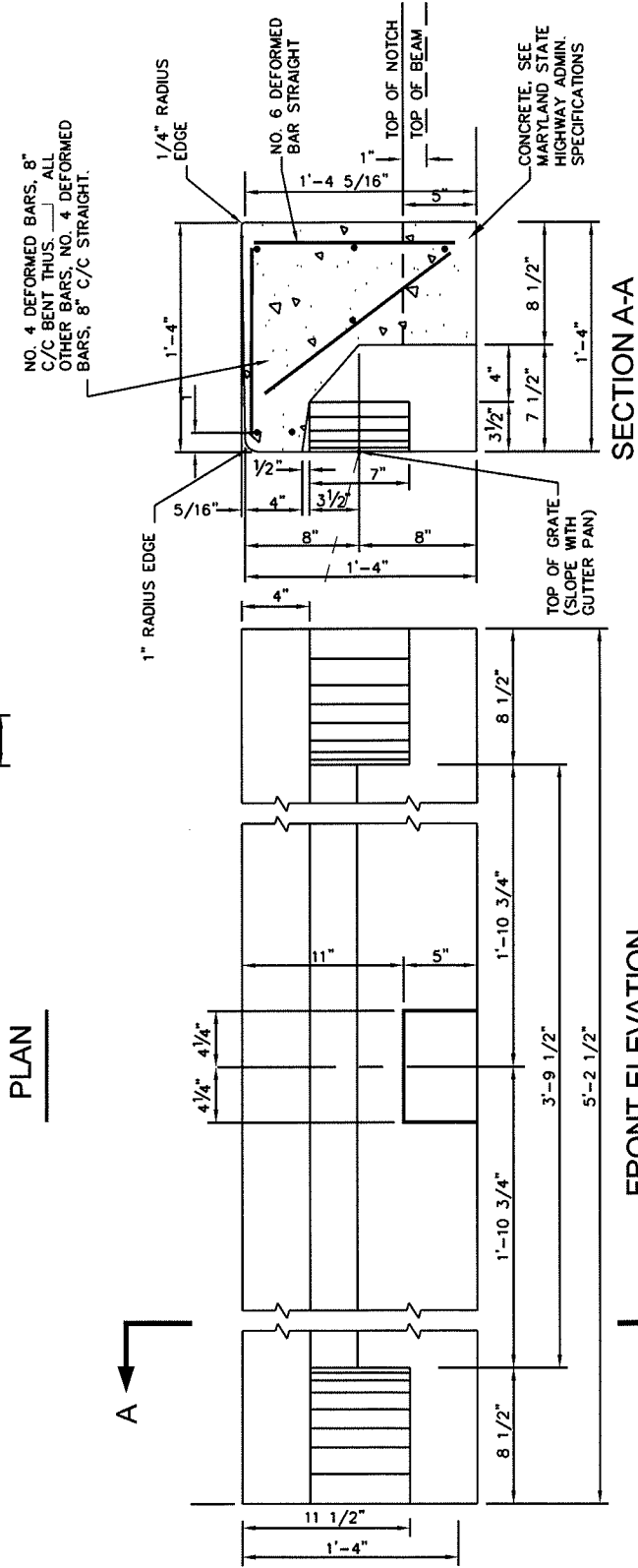
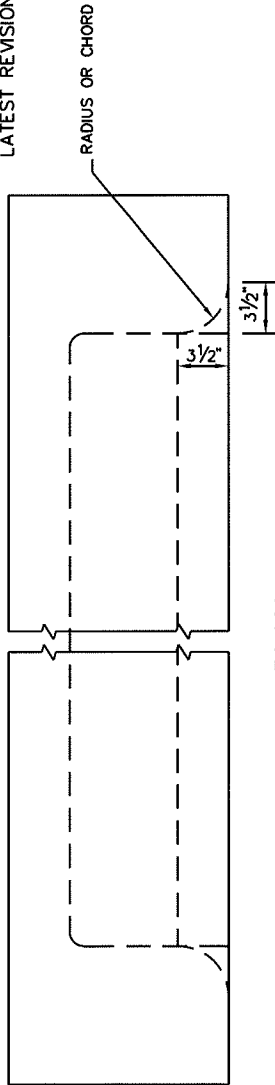
APPROVED
1/1/14
DATE
Amanda Pollock
CITY ENGINEER

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.



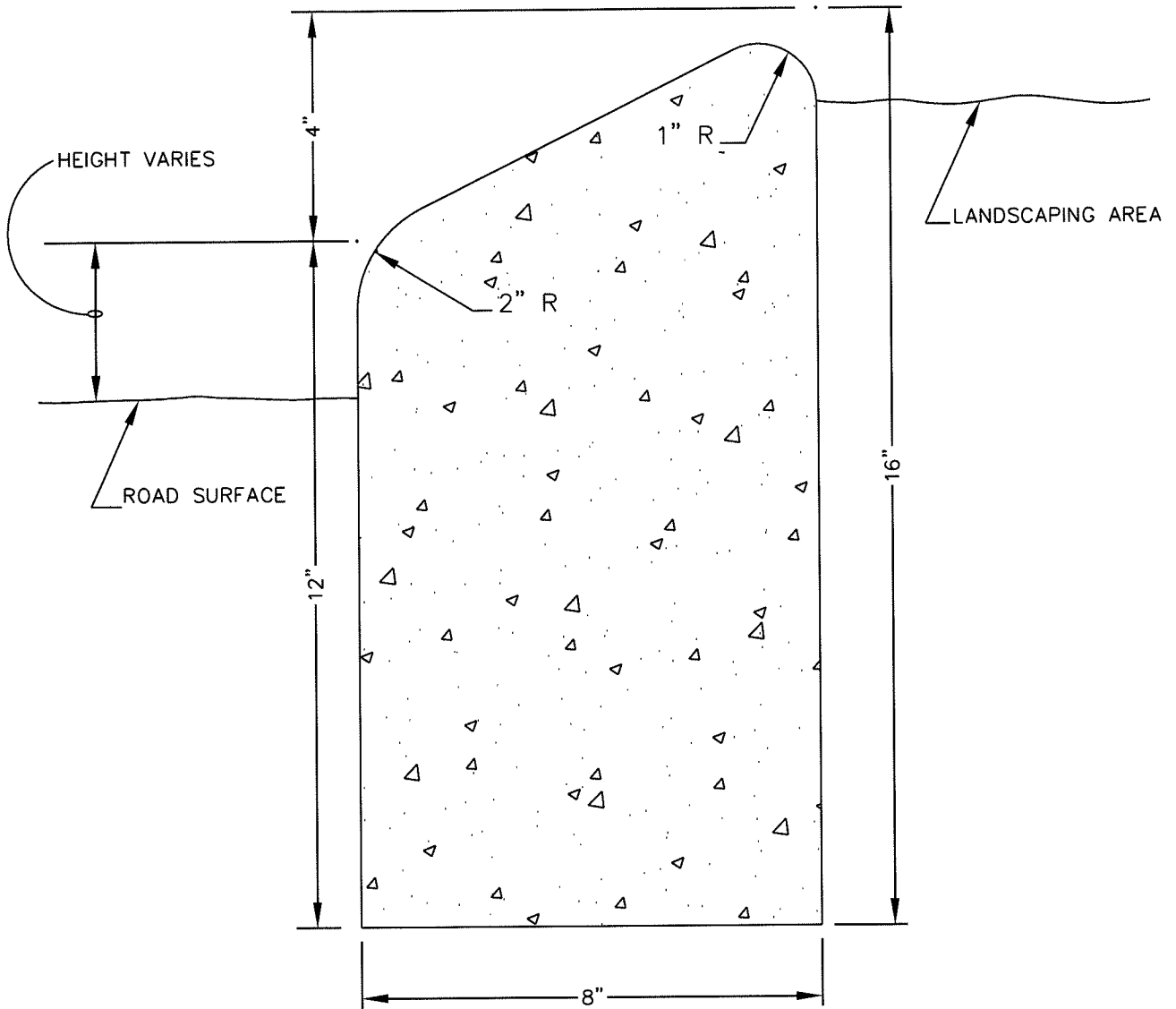
CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
CITY ENGINEER

SPECIAL CURB
CLASS "NR" OPEN
THROAT INLET

Revised: 01/01/14

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.

Revised: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Pollack
CITY ENGINEER

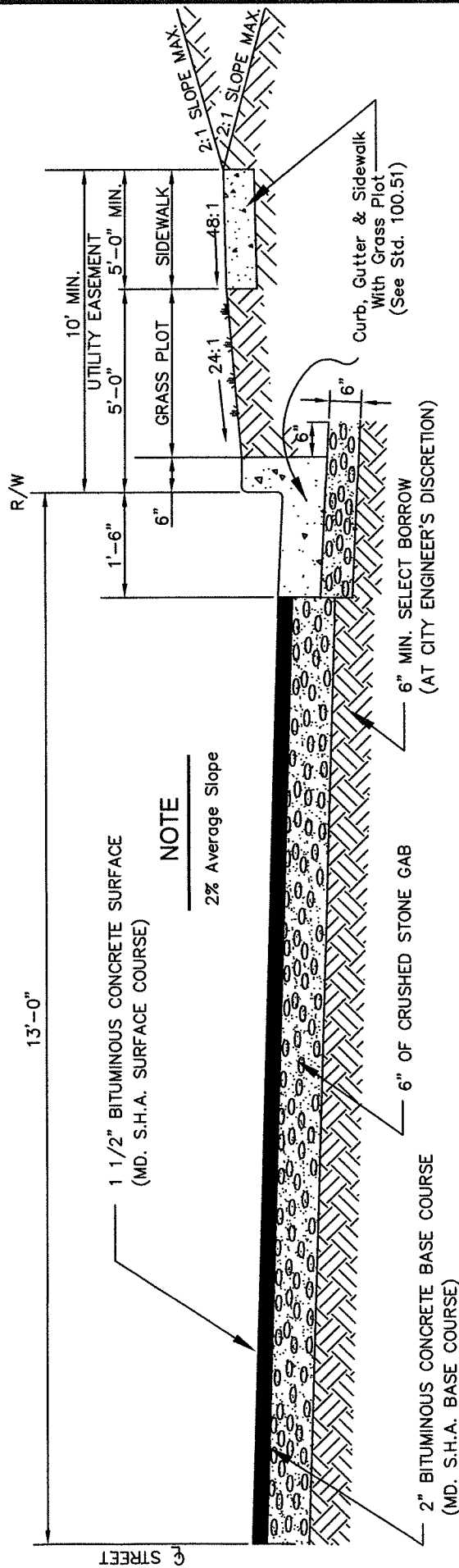
TRAFFIC ISLAND
SAFETY CURB

DATE 7/12/90

SCALE NONE

DWG. NO. STD10057

STD. NO. 100.57



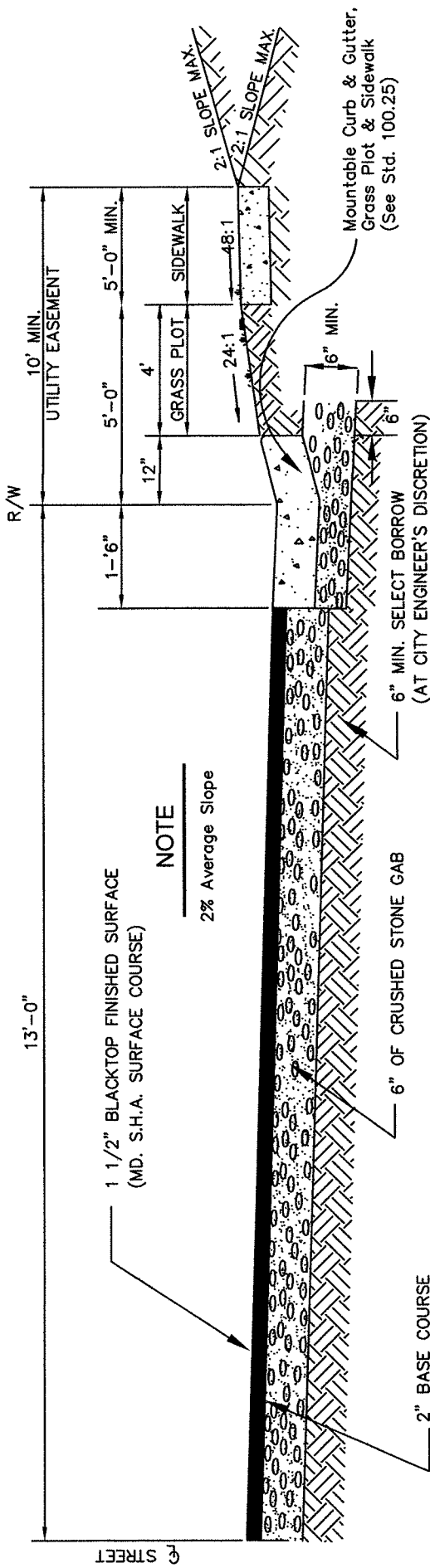
NOTE
2% Average Slope

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 DPW approval only. Elimination requires 5'-0" width sidewalk placed against curb.

Revised: 1/01/14

CITY OF SALISBURY SALISBURY, MD	APPROVED	DATE
	<i>Amanda Pollock</i> CITY ENGINEER	1/1/14
TYPICAL SECTION		DATE 3/23/92
TYPICAL 26' LOCAL STREET		SCALE NONE
WITH STANDARD CURB & GUTTER		DWG NO. STD20011
		STD. NO 200.11



NOTE

1 1/2" BLACKTOP FINISHED SURFACE
(MD. S.H.A. SURFACE COURSE)

2% Average Slope

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 DPW approval only. Elimination requires 5'-0" width sidewalk placed against curb.

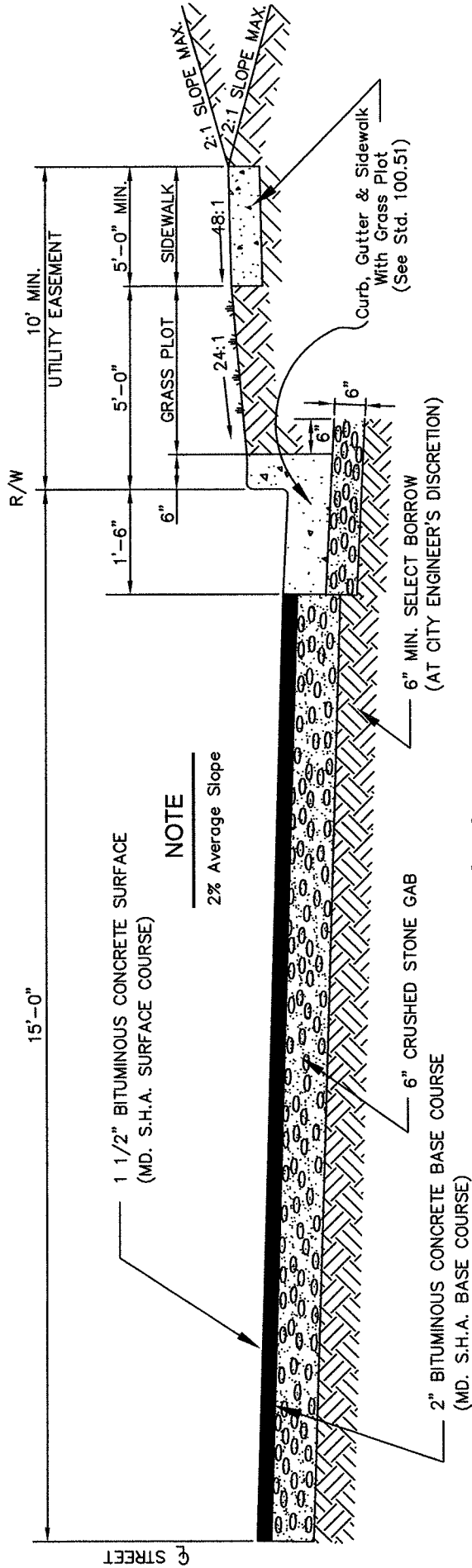
Revised: 1/01/14

DATE	3/23/92
SCALE	NONE
DWG NO.	STD20013
STD. NO	200.13

TYPICAL SECTION
TYPICAL 26' LOCAL STREET
WITH MOUNTABLE CURB & GUTTER

APPROVED
 1/1/14
Amanda Pollack
 CITY ENGINEER

CITY OF SALISBURY
SALISBURY, MD



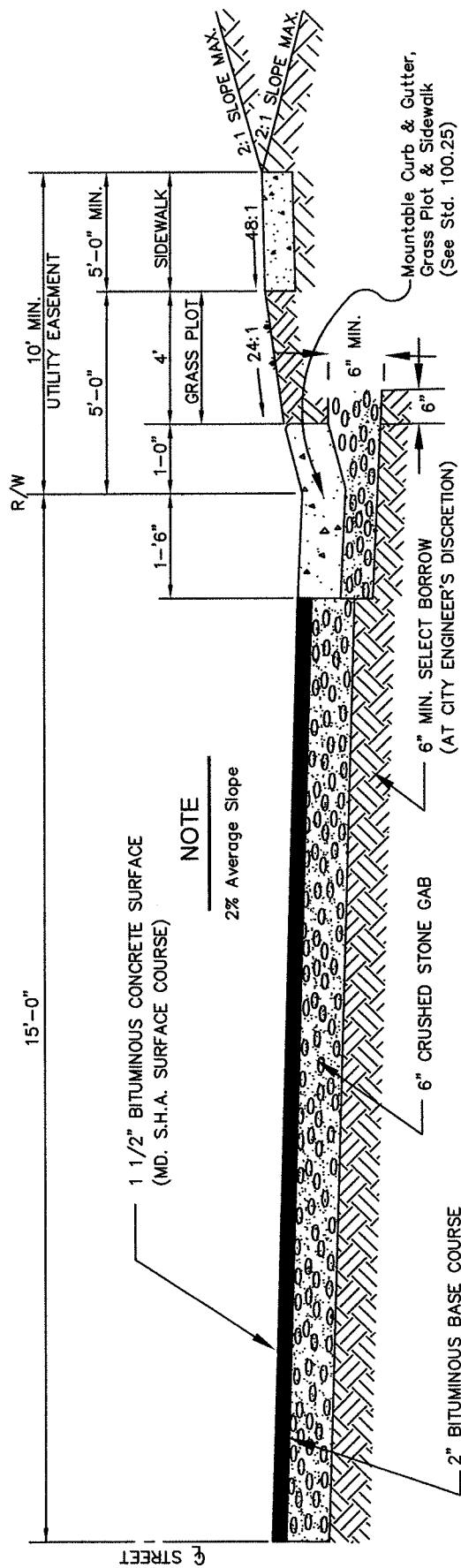
NOTE
2% Average Slope

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 DPW approval only. Elimination requires 5'-0" width sidewalk placed against curb.

Revised: 1/01/14

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/1/14	TYPICAL SECTION	DATE 3/23/92
	<i>Amanda P. Black</i> CITY ENGINEER	TYPICAL 30' MINOR COLLECTOR STREET WITH STANDARD CURB & GUTTER	SCALE NONE
			DWG NO. STD20021
			STD. NO. 200.21



NOTE
2% Average Slope

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 Fridge.
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 DPW approval only. Elimination requires 5'-0" width sidewalk placed against curb.

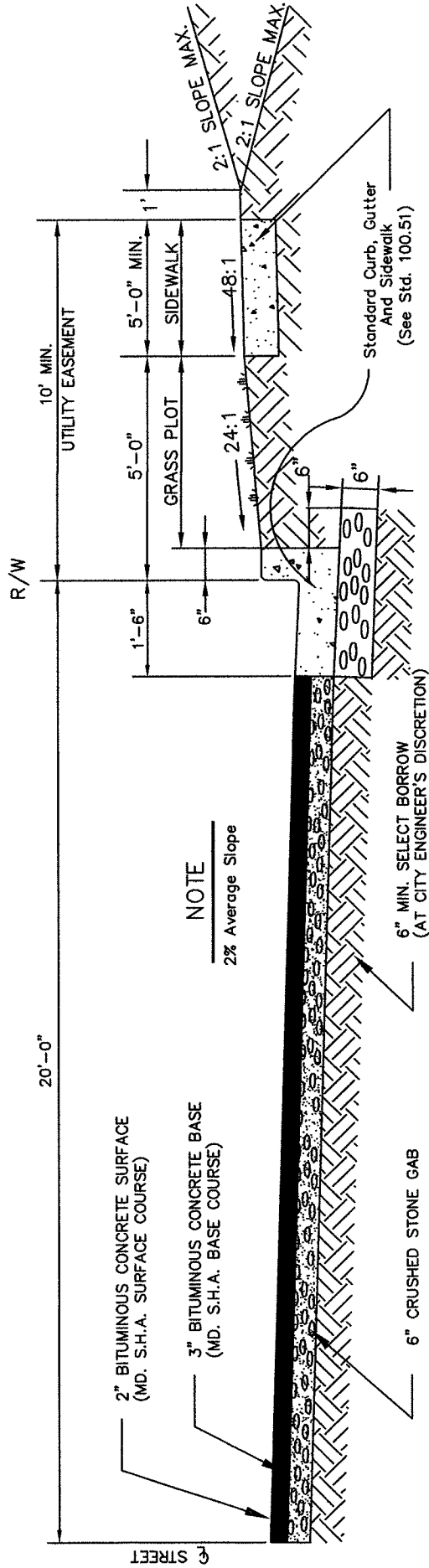
Revised: 1/01/14

DATE	3/23/92
SCALE	NONE
DWG NO.	STD20023
STD. NO	200.23

TYPICAL SECTION
TYPICAL 30' MINOR COLLECTOR STREET
WITH MOUNTABLE CURB & GUTTER

APPROVED
4/1/14 DATE
Amanda Pollock
CITY ENGINEER

CITY OF SALISBURY
SALISBURY, MD



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 DPW approval only.

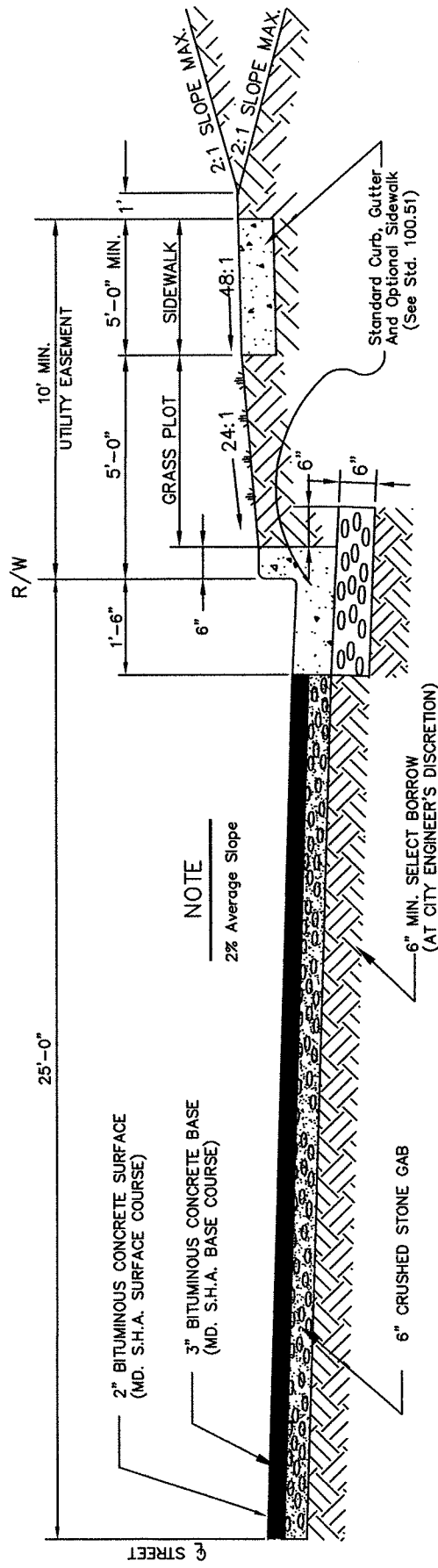
Revised: 1/01/14

DATE	3/23/92
SCALE	NONE
DWG NO.	STD20041
STD. NO	200.41

TYPICAL SECTION
TYPICAL 40' MAJOR COLLECTOR STREET
WITH STANDARD CURB & GUTTER

APPROVED
1/1/14 DATE
Amanda Black
CITY ENGINEER

CITY OF SALISBURY
SALISBURY, MD

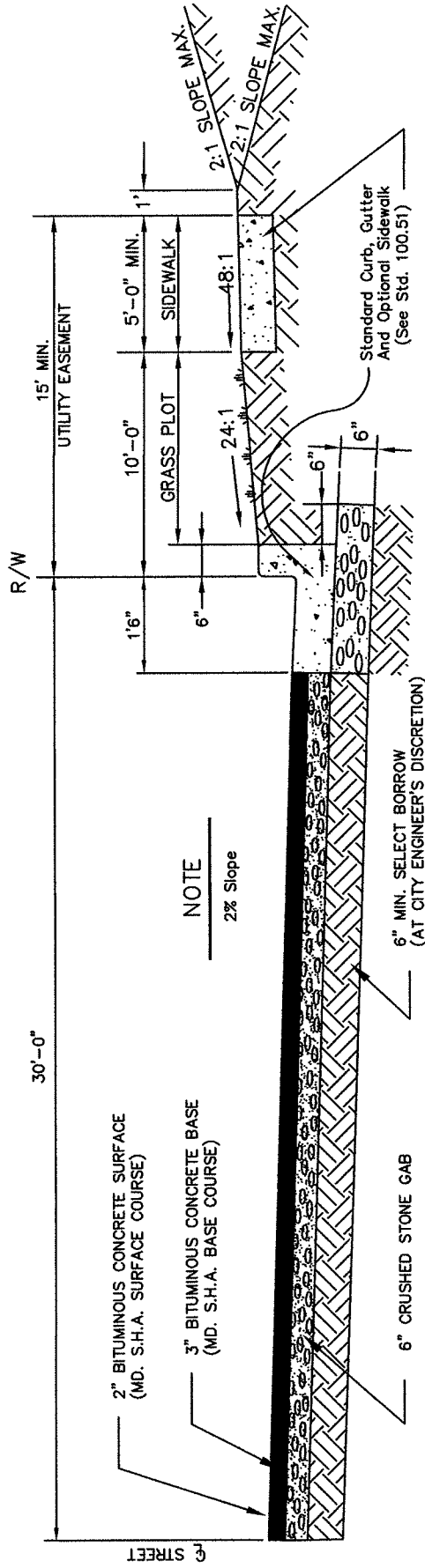


NOTES

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 DPW approval only.

Revised: 1/01/14

CITY OF SALISBURY SALISBURY, MD	APPROVED <i>Amanda Pollock</i> CITY ENGINEER	DATE 4/1/14
	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



NOTE
2% Slope

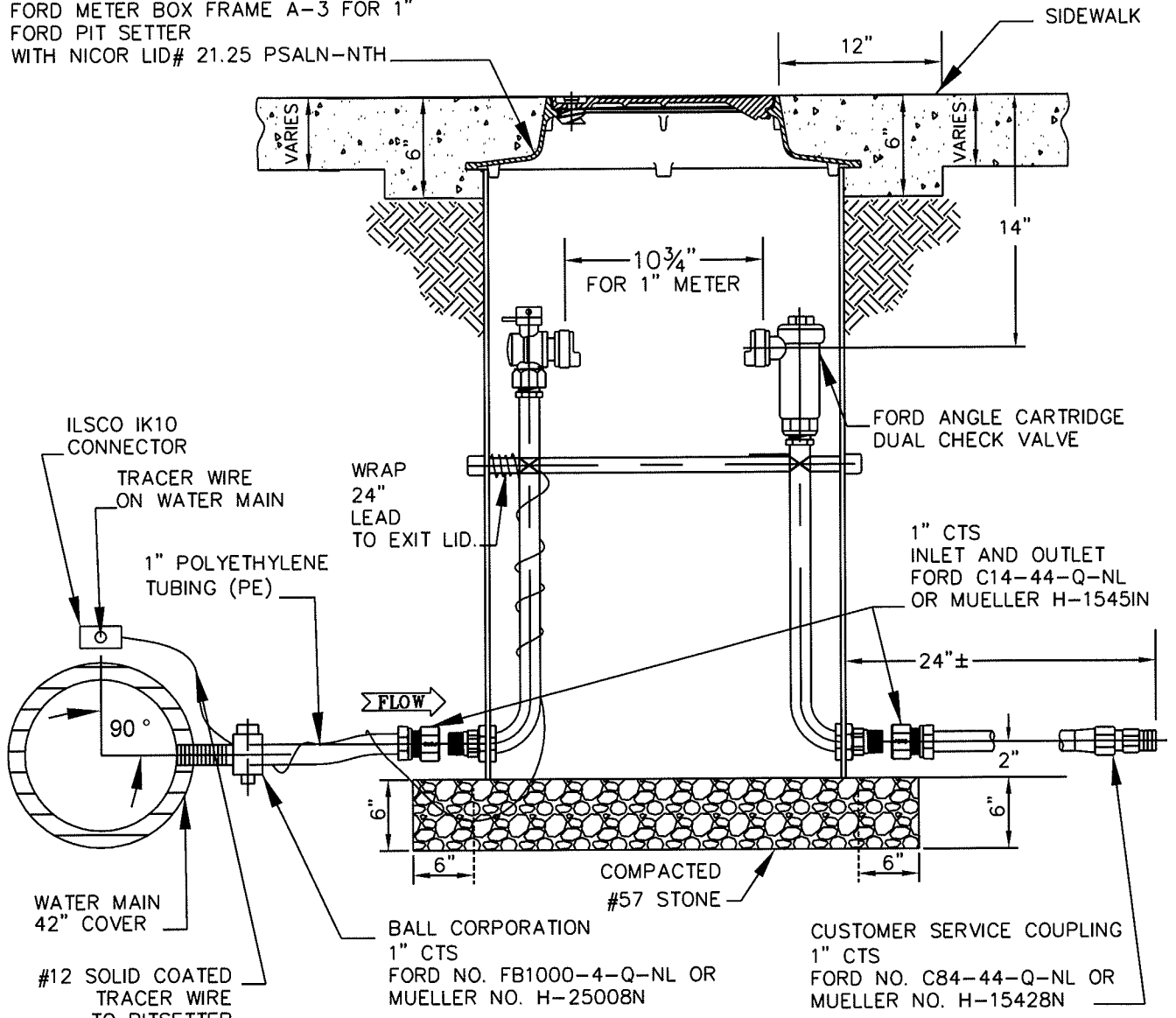
NOTES

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 DPW approval only.

Revised: 1/01/14

CITY OF SALISBURY	APPROVED	DATE	3/23/92
	4/1/14	SCALE	NONE
SALISBURY, MD	<i>Amanda Pollack</i>	DWG NO.	STD20061
	CITY ENGINEER	STD. NO	200.61
TYPICAL SECTION		TYPICAL 60' ARTERIAL STREET WITH STANDARD CURB & GUTTER	

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 PLASTIC, USE APPROVED SADDLE FOR TAP.
4. FOR PVC MAIN 12" OR LESS: FORD FS313 SERIES STAINLESS STEEL SADDLE
5. MUELLER SS SERIES STAINLESS STEEL SERVICE SADDLE FOR 1" SERVICE SINGLE STUD 5" LENGTH
6. FORD PIT SETTER—FORD NO. PSBHC-488-20-36-G-NL-NO BYPASS
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. SEE WATER MAIN MATERIALS, WM-6.
8. 1" PIT SETTERS INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A CONCRETE COLLAR EXTENDING 1' BEYOND THE FRAME OF THE PIT SETTER LID. THE COLLAR SHALL BE 10" 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. SLOPE THE SURROUNDING EARTH AROUND THE COLLAR IN SUCH A WAY AS TO CREATE POSITIVE DRAINAGE.

REVISED: 01/01/14

CITY OF
 SALISBURY
 SALISBURY, MD

APPROVED

1/21/14

DATE

Amanda Pollack
 DEPUTY DIRECTOR

1" WATER SERVICE
 W/FORD PIT SETTER

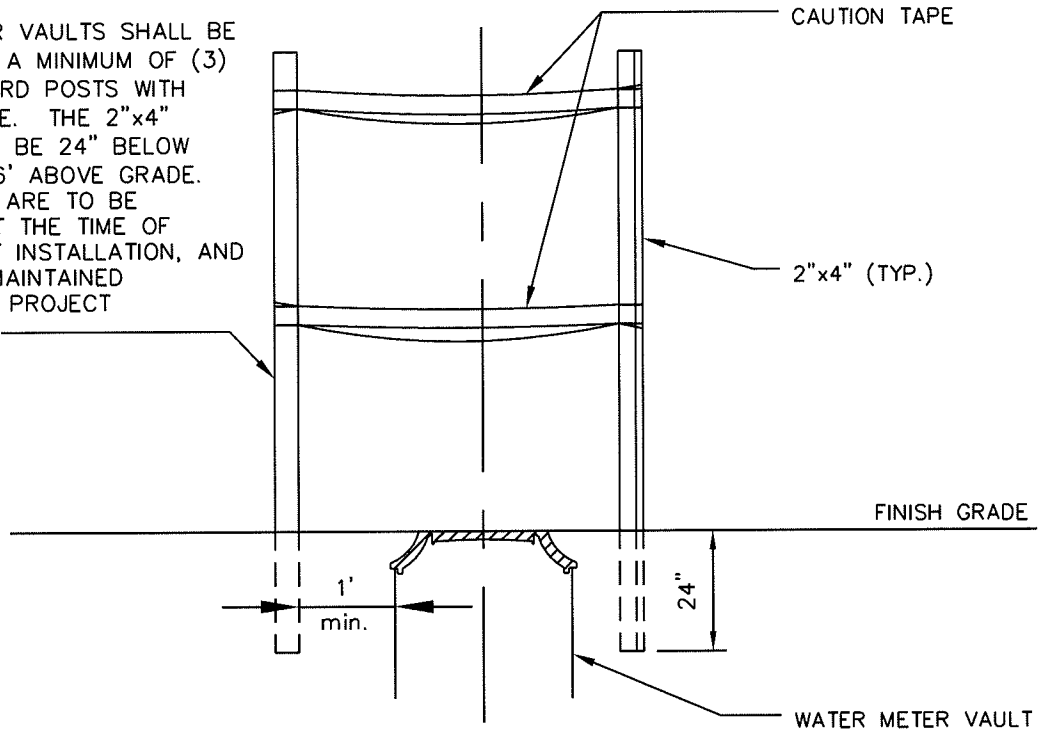
DATE 3/23/05

SCALE NONE

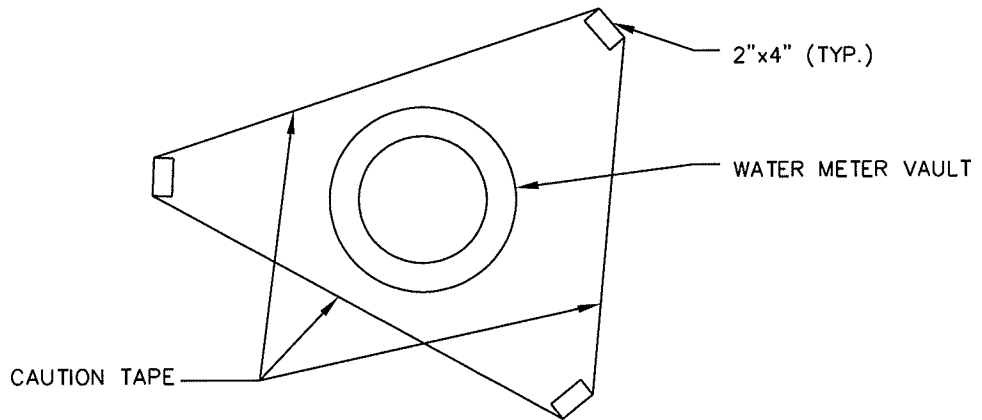
DWG. NO. STD30014

STD. NO. 300.14

WATER METER VAULTS 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 METER VAULT INSTALLATION, AND ARE TO BE MAINTAINED THROUGHOUT PROJECT COMPLETION.



FRONT VIEW



PLAN VIEW

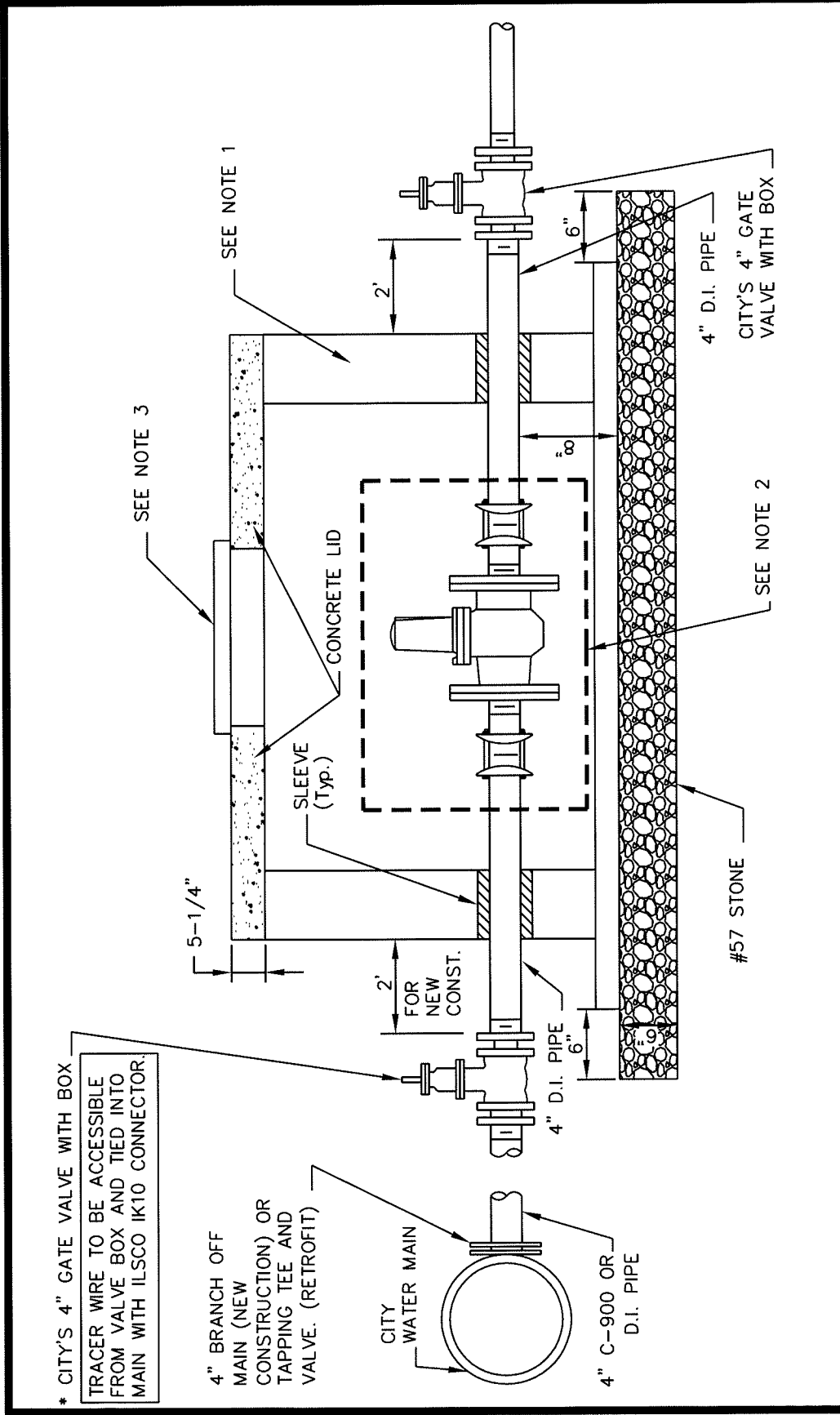
REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

TYPICAL
WATER METER VAULT
MARKER/GUARD DETAIL

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



== NOTES ==

1. VAULT - SEE DETAIL 300.31
2. WATER METER - SHALL BE SIZED, FURNISHED & INSTALLED BY CITY FORCES.
3. CASTING - SEE DETAIL 300.30.
4. SLEEVES - PVC OR IRON PIPE-2 PIPE SIZES LARGER THAN SERVICE PIPE.
5. ANNULAR SPACE BETWEEN SLEEVES & PIPE SHALL BE FILLED WITH MATERIAL APPROVED BY THE CITY INSPECTOR.
6. VAULT AREA BASE SHALL BE 6" COMPACTED #57 STONE.
7. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED ON CUSTOMER SERVICE SIDE OF VAULT. TO BE OWNED AND MAINTAINED BY CUSTOMER.

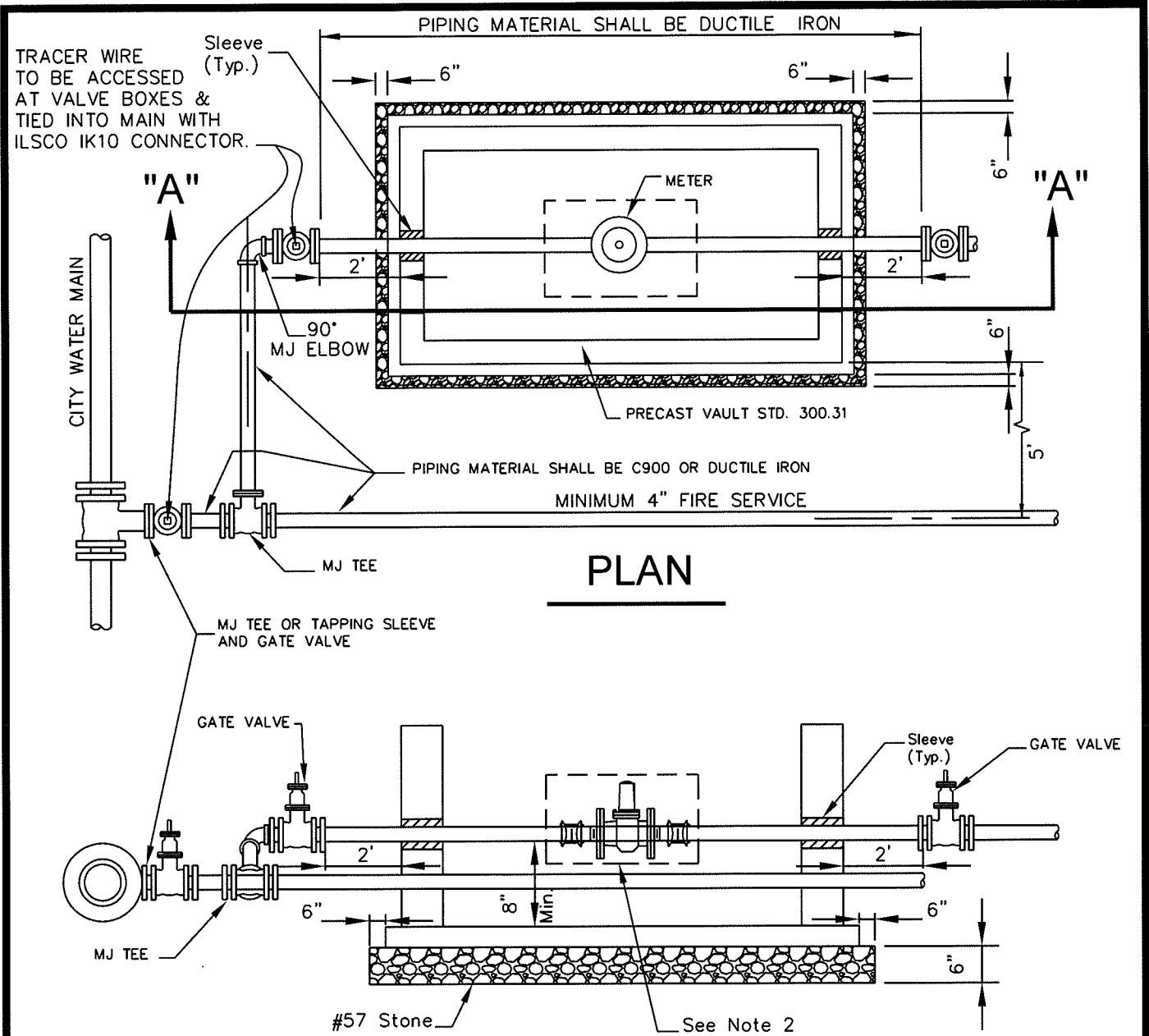
CITY OF SALISBURY
SALISBURY, MD

APPROVED
11/1/14
Amanda Pollack
DEPUTY DIRECTOR

TYPICAL 4"
WATER SERVICE

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

Revised: 01/01/14



PLAN

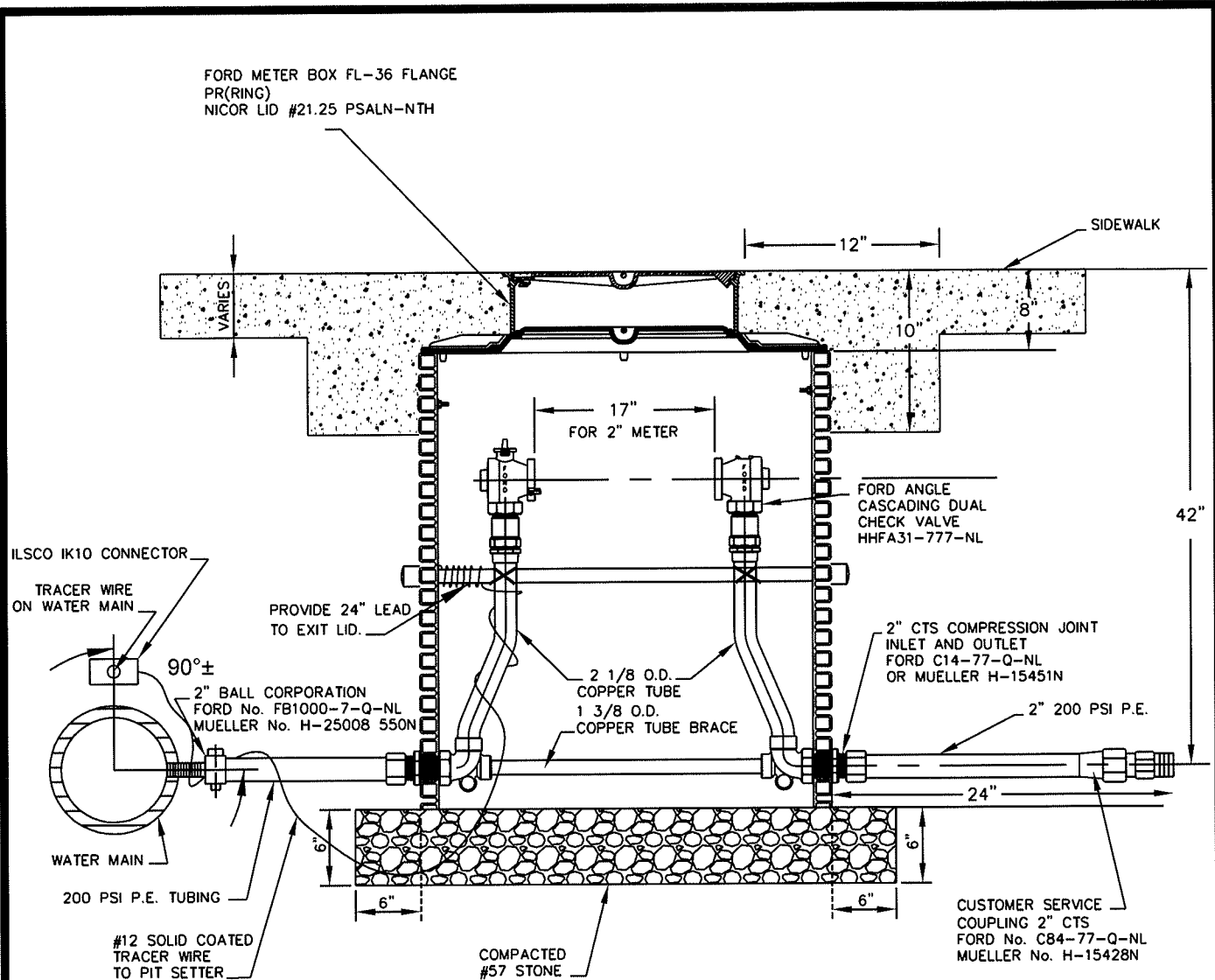
SECTION A-A

NOTES:

1. USE RETAINER GLANDS AS REQUIRED.
2. WATER METER SHALL BE SIZED, FURNISHED AND INSTALLED BY CITY FORCES.
3. SLEEVES SHALL BE PVC OR IRON PIPE 2 PIPE SIZES GREATER THAN SERVICE PIPE.
4. ANNULAR SPACE BETWEEN PIPE AND SLEEVES SHALL BE FILLED WITH MATERIAL APPROVED BY CITY INSPECTOR.
5. CASTING—SEE DETAIL 300.30.
6. MINIMUM INSIDE DIMENSIONS OF VAULT TO BE 4' WIDE X 5' LONG AND NO LESS THAN 36" TO TOP OF SERVICE PIPE, MAXIMUM 48".
7. 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.

Revised: 01/01/14

<p>CITY OF SALISBURY SALISBURY, MD</p>	APPROVED	<p>COMBINATION DOMESTIC FIRE SERVICE DOMESTIC 4" OR GREATER FIRE SERVICE 4" OR GREATER</p>	DATE	03/24/99
	1/1/14		SCALE	NONE
	DATE		DWG. NO.	STD30026
	DEPUTY DIRECTOR		STD. NO.	300.26
	Amanda Pollack			



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 PVC, USE APPROVED SADDLE FOR TAP.
4. FOR PVC MAIN 12" OR LESS;
FORD FS313 SERIES STAINLESS STEEL SADDLE
MUELLER SS SERIES STAINLESS STEEL SADDLE
FOR 2" SERVICE DOUBLE STUD 7½" LENGTH

FOR PVC MAIN GREATER THAN 12"
FORD FC202 SERIES
MUELLER - DR2S SERIES
NO SADDLE REQUIRED FOR DIP OR CIP
5. FORD PITSETTER—FORD
NO. PMBHH-788-36-42-Q-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 CONCRETE COLLAR EXTENDING 1' BEYOND THE FRAME OF THE PIT SETTER LID. THE COLLAR SHALL BE 10" 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. SLOPE THE SURROUNDING EARTH AROUND THE COLLAR IN SUCH A WAY AS TO CREATE POSITIVE DRAINAGE.

Revised: 01/01/14

**CITY OF
SALISBURY
SALISBURY, MD**

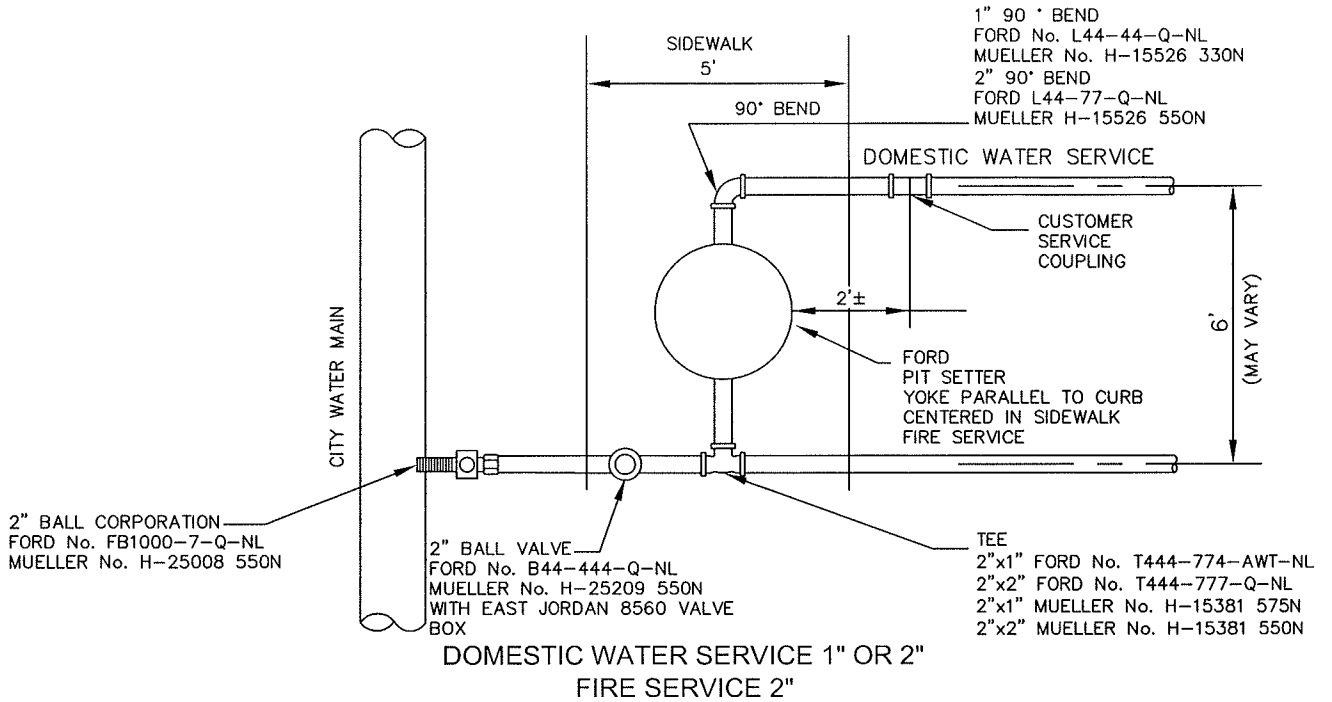
APPROVED
Amanda Pollack
DATE
11/14
DEPUTY DIRECTOR

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

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

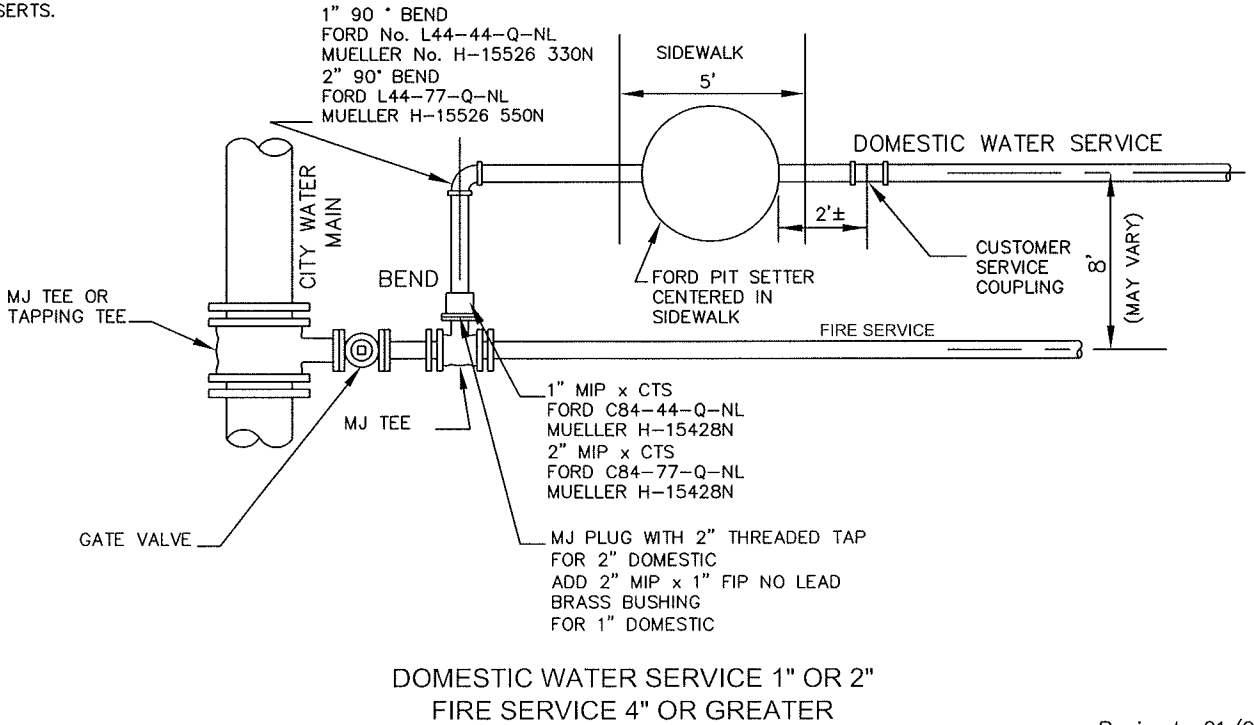
NOTES

ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.



NOTES

ALL FITTINGS USED WITH PE TUBING SHALL HAVE S.S. INSERTS.

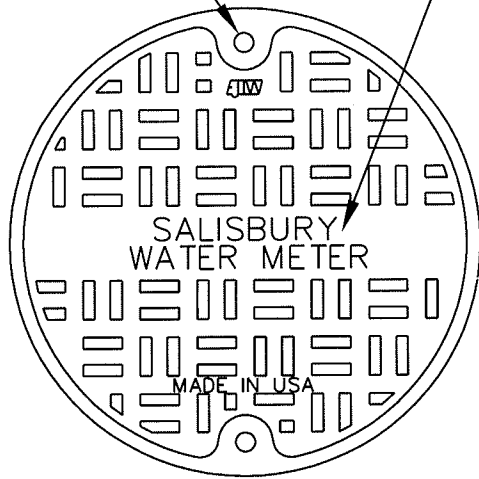


Revised: 01/01/14

<p>CITY OF SALISBURY SALISBURY, MD</p>	<p>APPROVED 1/1/14 DATE <i>Amanda Pollack</i> DEPUTY DIRECTOR</p>	<p>CONFIGURATION: COMBINATION DOMESTIC FIRE SERVICE "PLAN VIEW"</p>	<p>DATE 1/29/08</p>
			<p>SCALE NONE</p>
			<p>DWG. NO. STD30029</p>
			<p>STD. NO. 300.29</p>

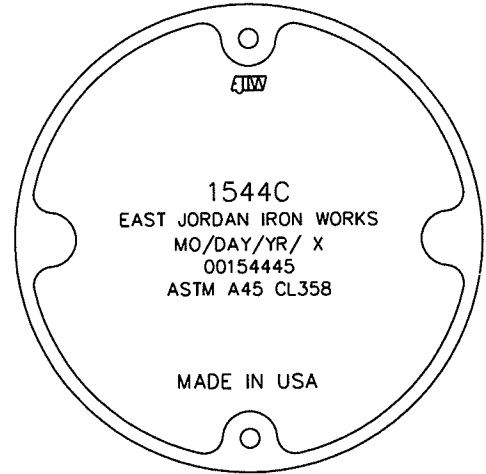
1 1/8" DIA HOLES (TYP.)

1 1/4" RAISED LETTERS

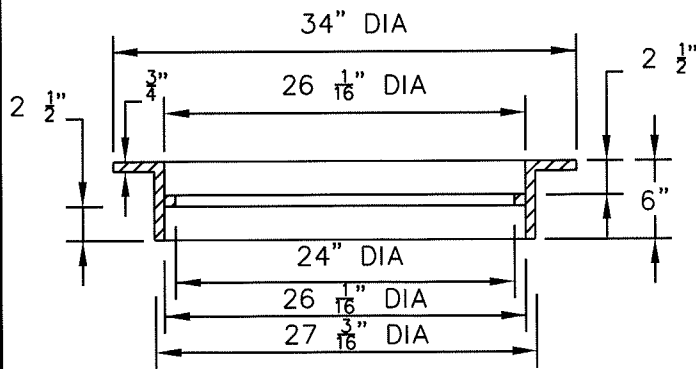


PLAN

SCALE: N.T.S.

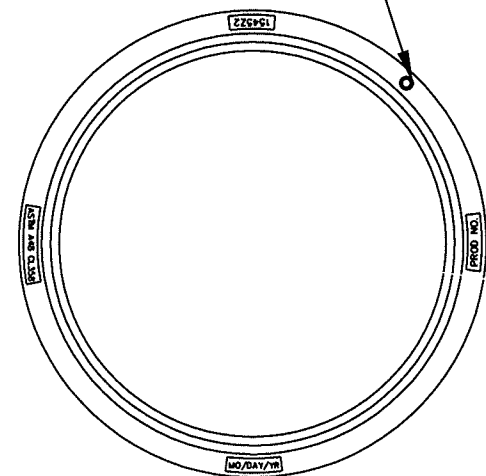


BOTTOM VIEW



FRAME—GRAY CAST IRON
ASTM A48 CL35B

1" DIA HANDLING HOLE



BOTTOM VIEW

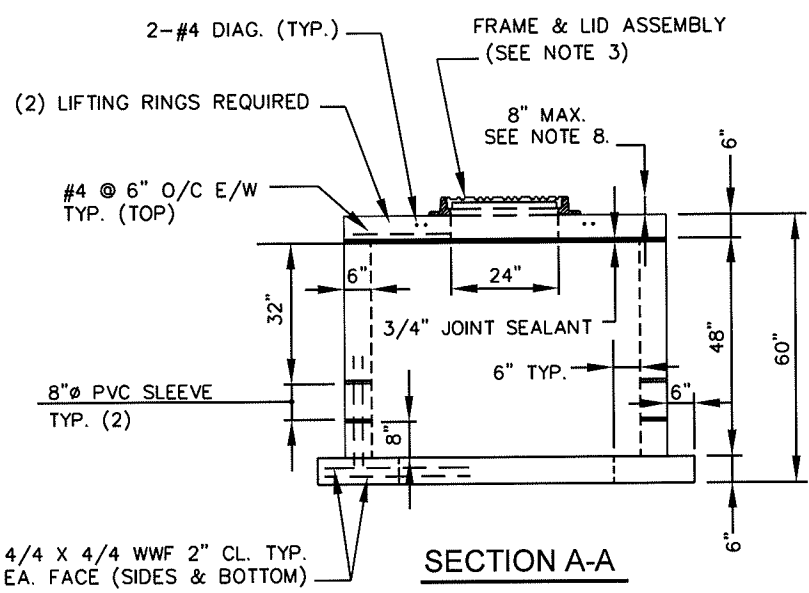
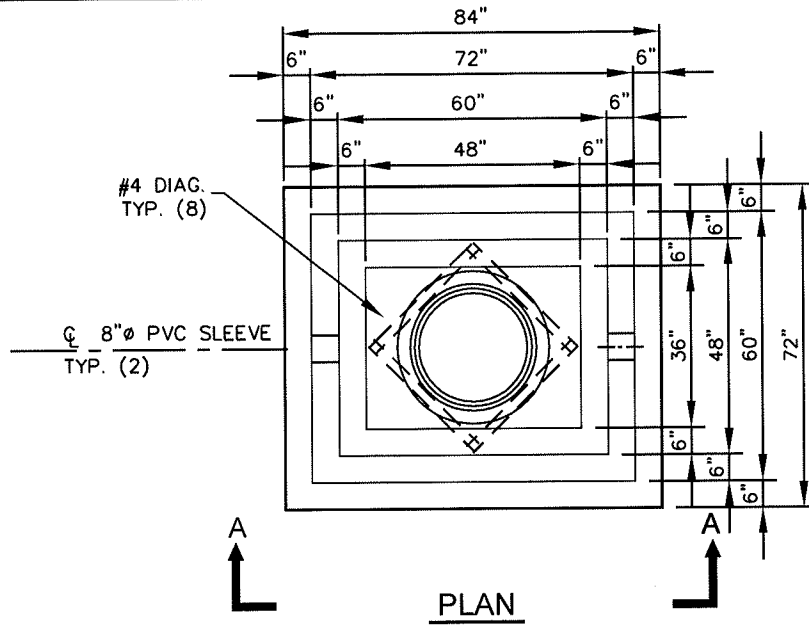
REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
Amanda Pollack
DATE
4/13/14
DEPUTY DIRECTOR

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. ANNULAR SPACE BETWEEN SLEEVES & PIPE SHALL BE FILLED WITH MATERIAL APPROVED BY THE 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.
8. FINISHED GRADE TO BE ACCOMPLISHED USING MORTAR, OR CONCRETE RISER AND MORTAR BED.

REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

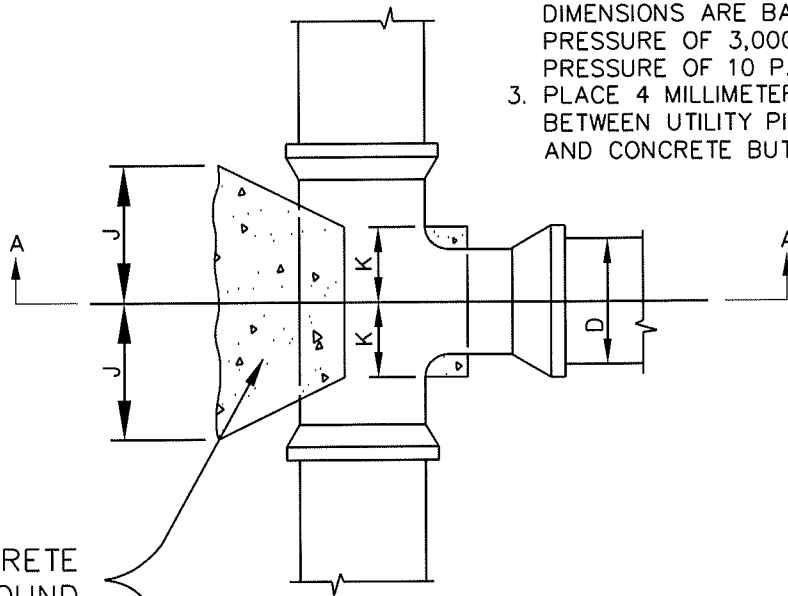
APPROVED
1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

**PRE-CAST CONCRETE
WATER METER VAULT
& LID**

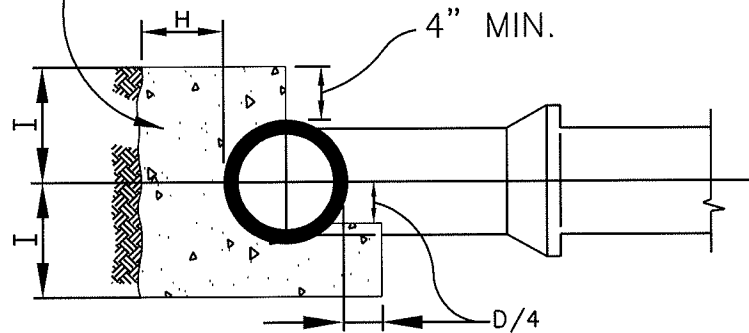
DATE	1/30/08
SCALE	N.T.S.
DWG. NO.	STD30031
STD. NO.	300.31

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.



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"

REVISED 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Pollack
DEPUTY DIRECTOR

STANDARD WATER DETAILS
BUTTRESS FOR TEES

DATE 12/03/98

SCALE NONE

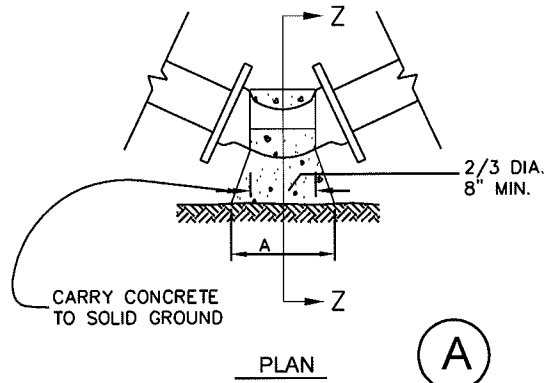
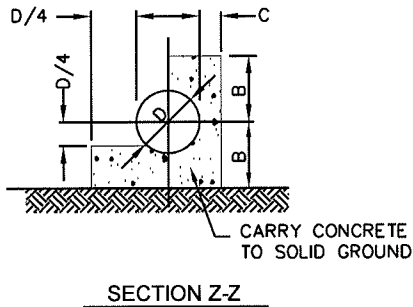
DWG. NO. STD300.40

STD. NO. 300.40

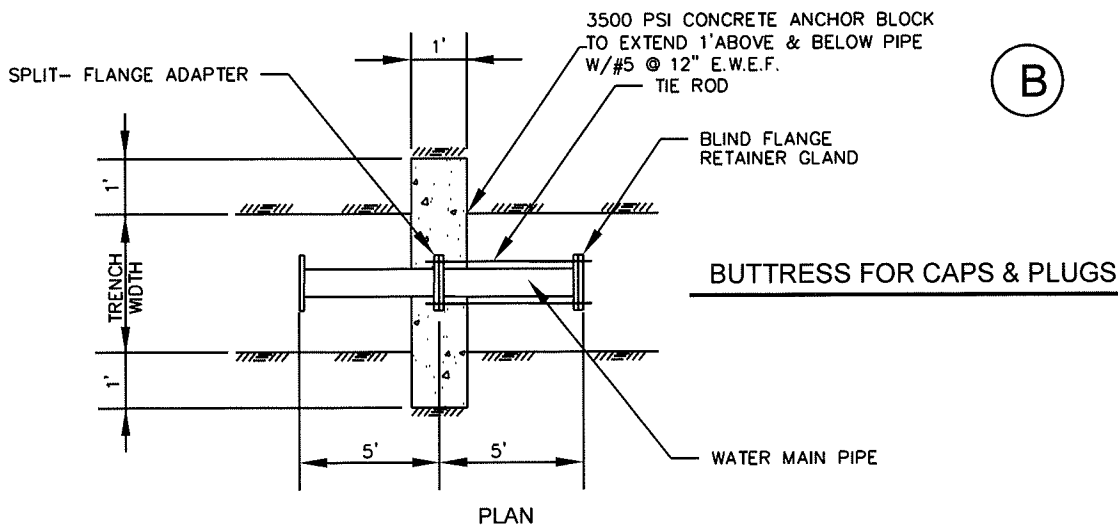
NOTES:

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"			



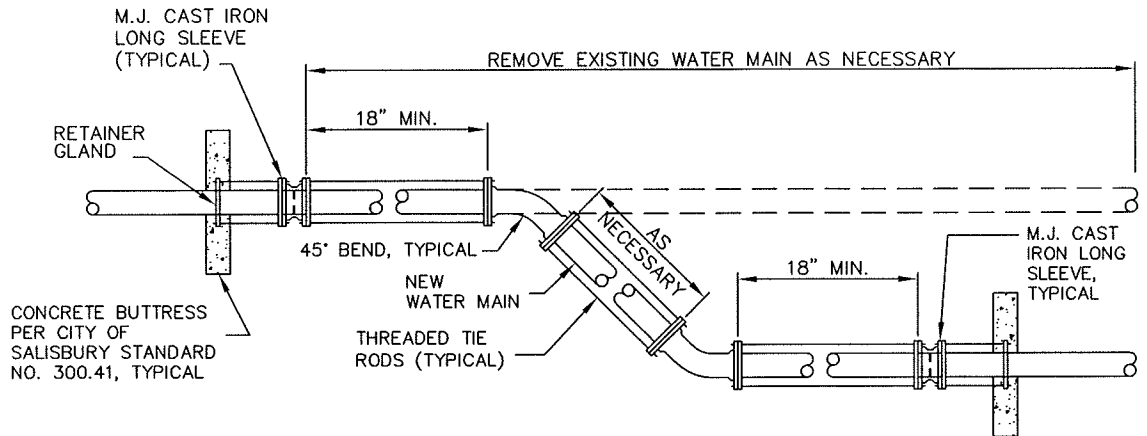
BUTTRESS FOR HORIZONTAL BENDS



BUTTRESS FOR CAPS & PLUGS

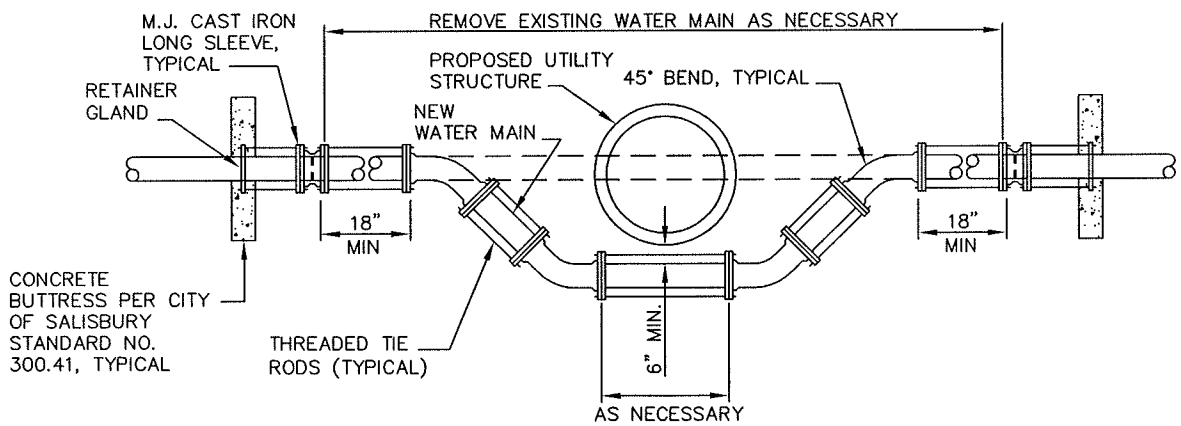
REVISED: 01/01/14

<p>CITY OF SALISBURY SALISBURY, MD</p>	<p>APPROVED 1/1/14 DATE</p>	<p>STANDARD WATER DETAILS BUTTRESS FOR VALVES, PLUGS, CAPS AND HORIZONTAL BENDS</p>	<p>DATE 12/03/98</p>
	<p><i>Amanda Pollack</i> DEPUTY DIRECTOR</p>		<p>SCALE NONE</p>
			<p>DWG. NO. STD30041</p>
			<p>STD. NO. 300.41</p>



HORIZONTAL REALIGNMENT

(A)



VERTICAL REALIGNMENT

(B)

NOTES:

1. DIAMETER OF WATER MAIN TO BE LOWERED OR RAISED VARIES.
2. TO RAISE WATER MAIN USE INVERSE OR MIRROR IMAGE OF VERTICAL REALIGNMENT.
3. PIPE DIAMETER 12" OR SMALLER USE (2) 3/4" THREADED TIE RODS 180° APART.
4. PIPE DIAMETERS LARGER THAN 12" BUT SMALLER THAN 20" USE (4) 3/4" THREADED TIE RODS 90° APART.
5. PIPE DIAMETERS 20" OR LARGER USE (4) 1" THREADED TIE RODS 90° APART.

REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

DATE
Amanda Pollack
DEPUTY DIRECTOR

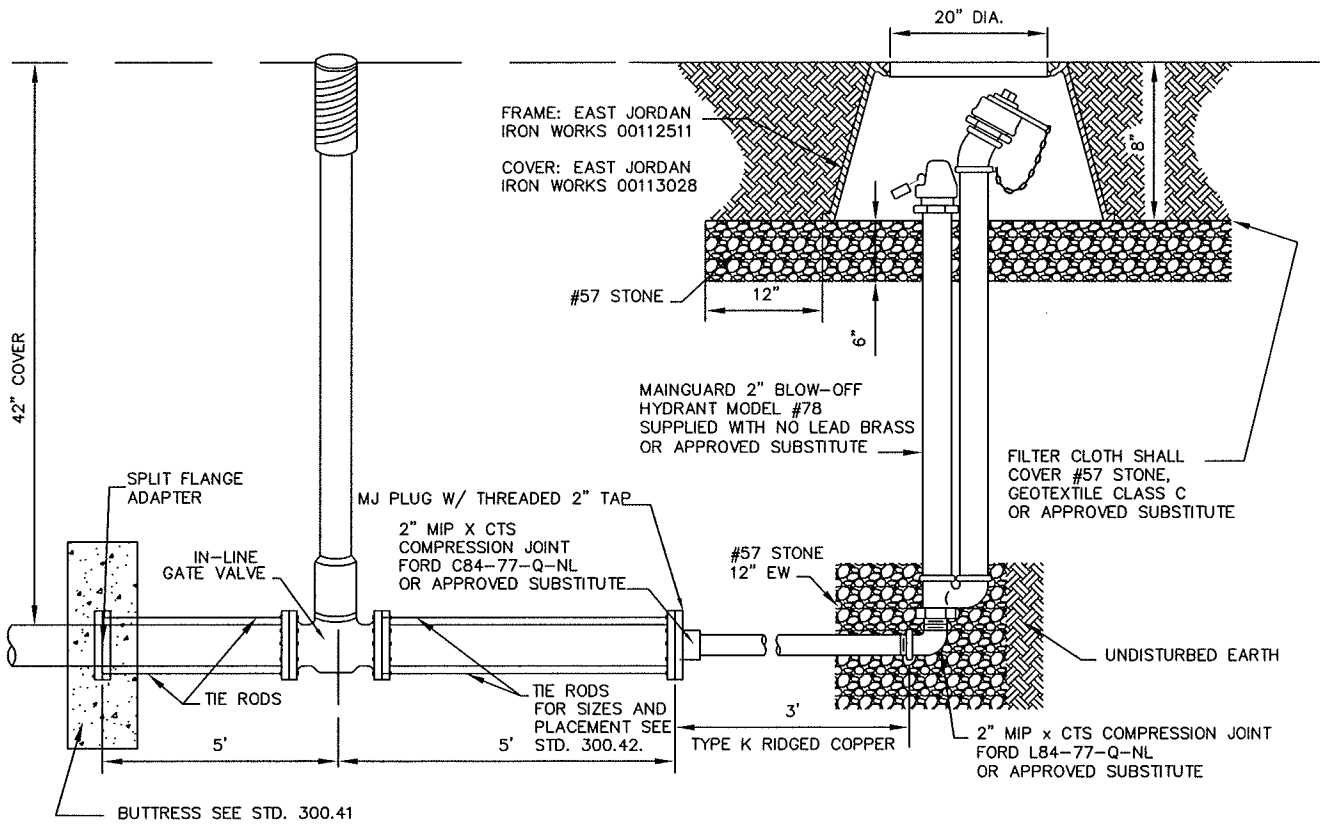
WATER MAIN
REALIGNMENT DETAILS

DATE 1/30/08

SCALE NONE

DWG. NO. STA30042

STD. NO. 300.42



NOTE:
 BLOW OFF HYDRANTS INSTALLED IN UNPAVED AREAS SHALL BE FURNISHED WITH A 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 SURROUNDING EARTH AROUND THE COLLAR IN SUCH A WAY AS TO CREATE POSITIVE DRAINAGE.

REVISED: 01/01/14

CITY OF
 SALISBURY
 SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Pollack
 DEPUTY DIRECTOR

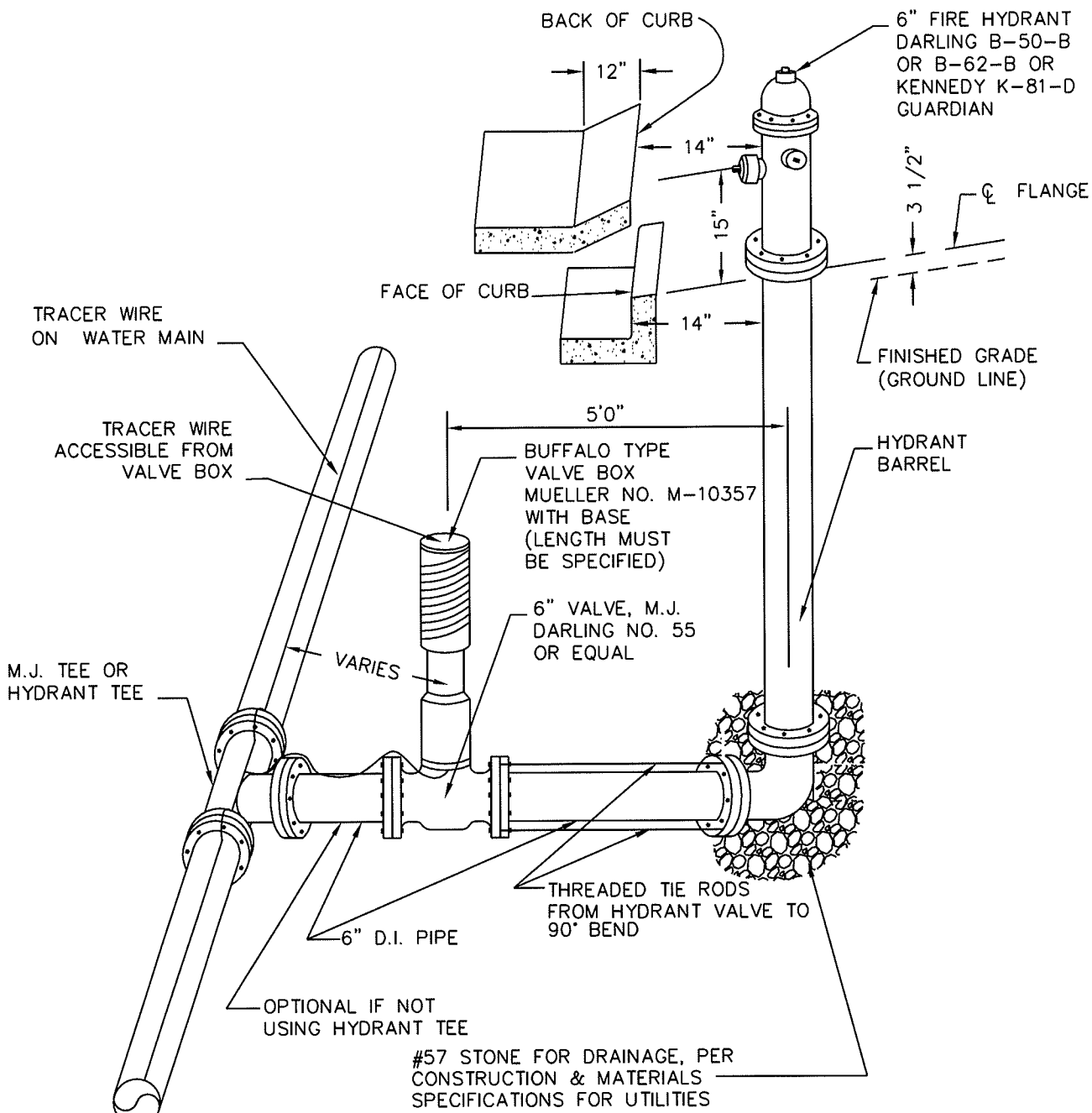
BLOW-OFF HYDRANT

DATE 1/30/08

SCALE NONE

DWG. NO. STD30051

STD. NO. 300.51



NOTES:

- HYDRANT CHAINS ARE TO BE REMOVED @ TIME OF INSTALLATION.
- MAINTAIN 3' CLEARANCE FROM CENTER OF HYDRANT FOR ALL ABOVE GROUND OBJECTS.
- HYDRANTS SHALL NOT BE PLACED IN THE QUADRANT/RADIUS AREA OF A CURB RETURN FOR STREET INTERSECTIONS AND DRIVEWAY ENTRANCES.
- HYDRANT LEAD SHALL BE DUCTILE IRON PIPE.
- RESTRAIN ALL PIPE JOINTS WITH SET-SCREW TYPE M.J. RETAINER GLANDS.
- HYDRANT LEAD SHALL USE (2) 3/4" THREADED TIE RODS 180° APART.
- 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.

Revised: 01/01/14

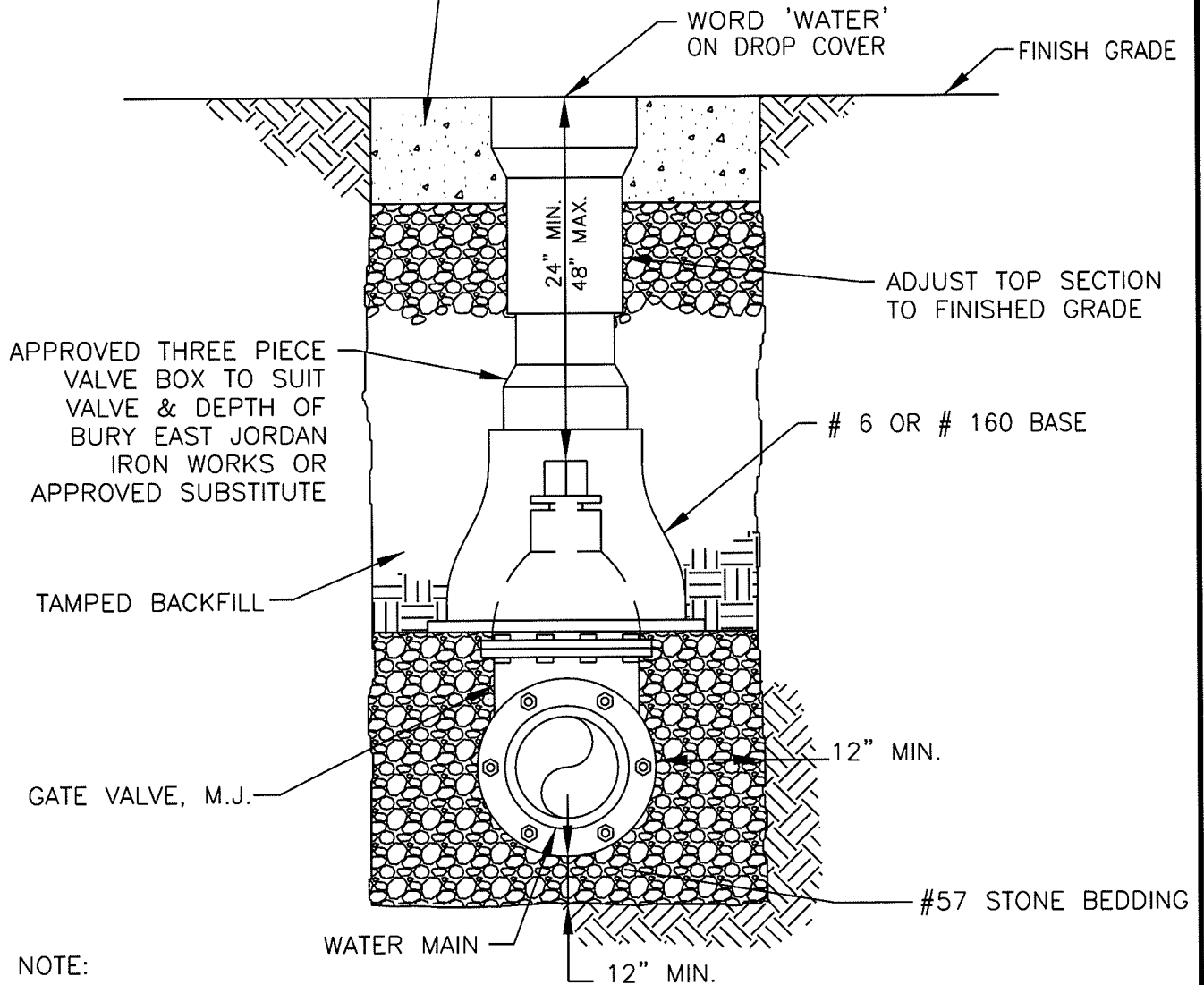
CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

STANDARD INSTALLATION
FIRE HYDRANT

DATE	08/29/86
SCALE	NONE
DWG. NO.	STD30055
STD. NO.	300.55

ALL VALVE BOXES INSTALLED IN UNPAVED AREAS SHALL BE FINISHED WITH A CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE VALVE BOX LID. 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 VALVE BOX LIDS ARE ADJUSTED TO FINISHED GRADE. SLOPE THE SURROUNDING EARTH AROUND VALVE BOX IN A WAY AS TO CREATE POSITIVE DRAINAGE AWAY FROM THE LID.



NOTE:

EXTEND TRACER WIRE THROUGH VALVE BOX AND TERMINATE AT 24" ABOVE FINISHED GRADE. LOOP EXCESS INTO VALVE BOX.

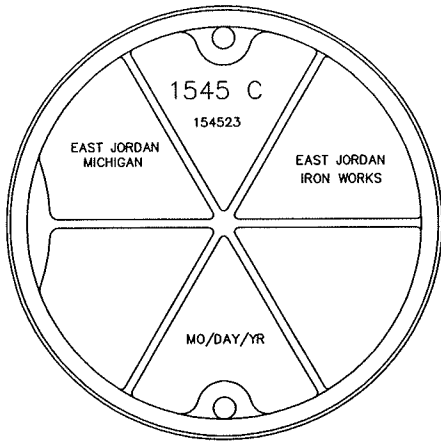
N.T.S.
REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

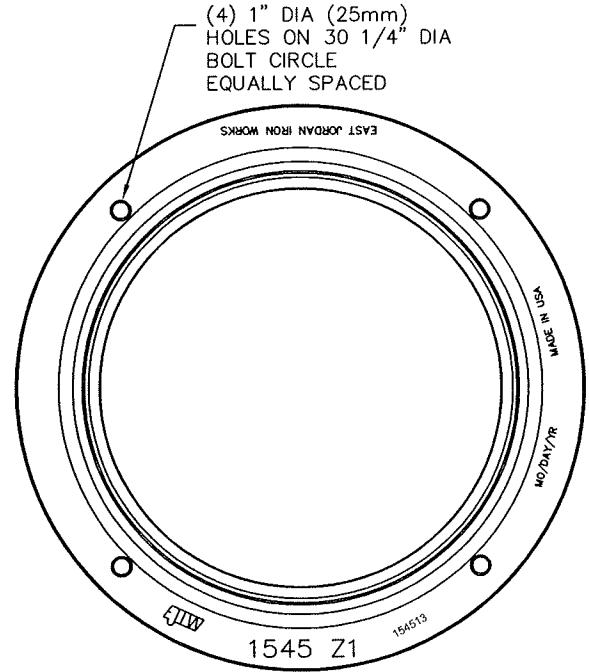
GATE VALVE INSTALLATION

DATE	11/02/09
SCALE	NONE
DWG. NO.	STD30012
STD. NO.	300.56

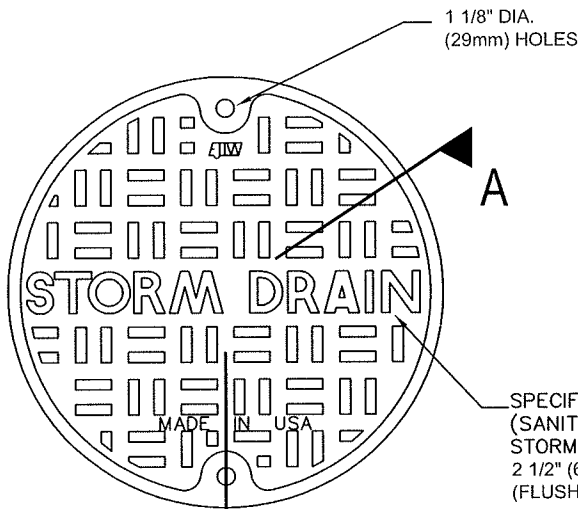


BOTTOM VIEW

EAST JORDAN
 FRAME #154514
 COVER #154524 (STORM WATER)
 COVER #154523 (SANITARY SEWER)
 OR APPROVED SUBSTITUTE



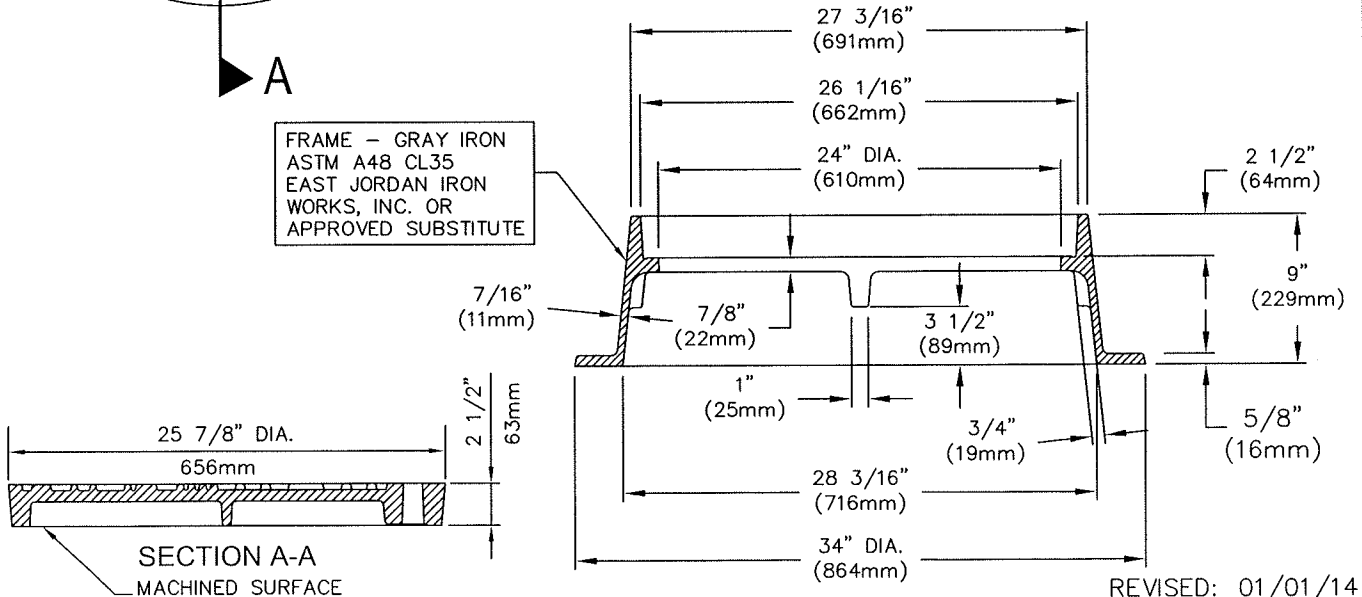
(4) 1" DIA (25mm)
 HOLES ON 30 1/4" DIA
 BOLT CIRCLE
 EQUALLY SPACED



1 1/8" DIA.
 (29mm) HOLES

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

SECTION A-A
 MACHINED SURFACE

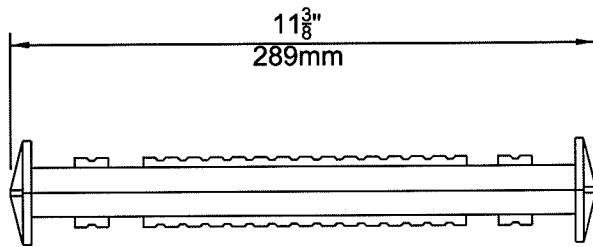
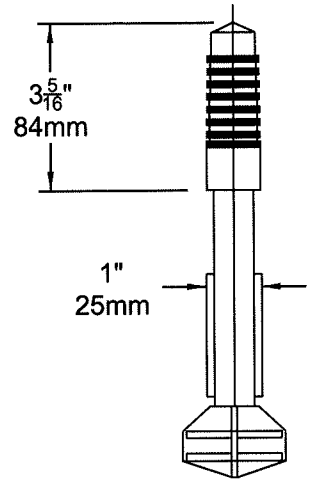
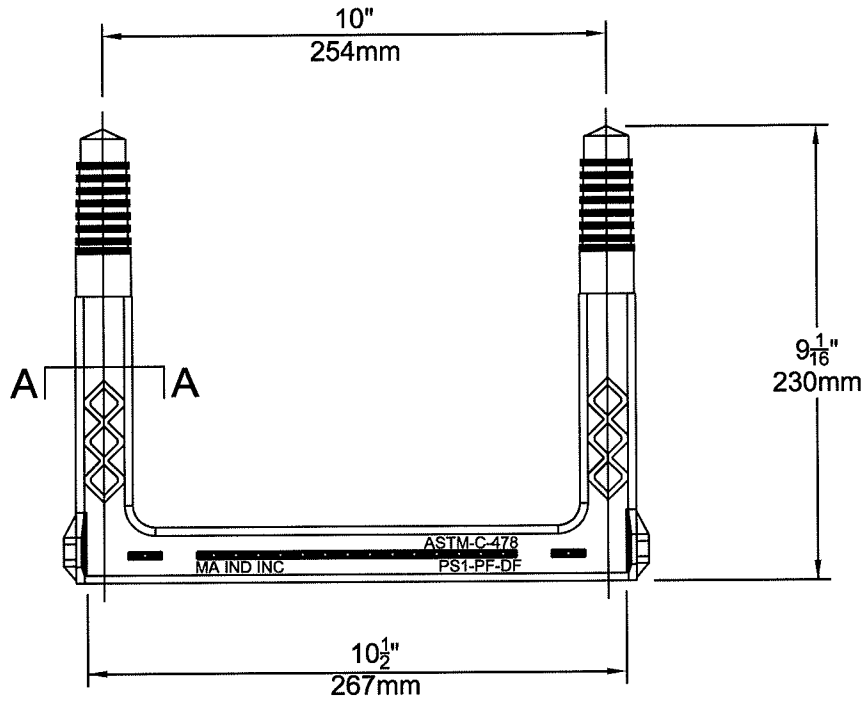
REVISED: 01/01/14

CITY OF
 SALISBURY
 SALISBURY, MD

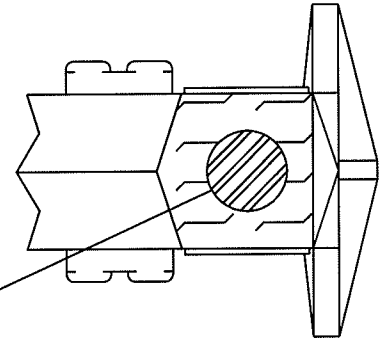
APPROVED
 1/1/14
 DATE
 Amanda Pollack
 DEPUTY DIRECTOR

MANHOLE FRAME & COVER
 SANITARY SEWER OR
 STORM WATER

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

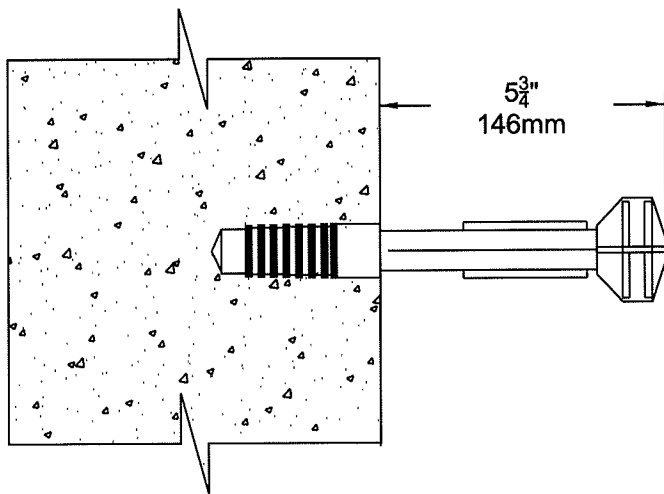


COPOLYMER POLYPROPYLENE PLASTIC
13mm (1/2") GRADE 60 STEEL REINFORCEMENT



SECTION A-A

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



REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

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11/1/14

DATE

Amenda Pollack
DEPUTY DIRECTOR

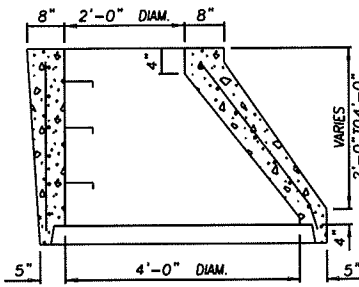
MANHOLE STEPS
SANITARY SEWER
OR
STORM WATER

DATE 03/01/12

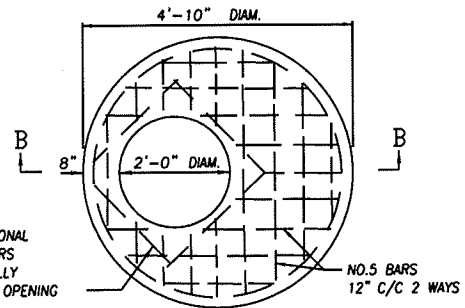
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DWG. NO. STD40011

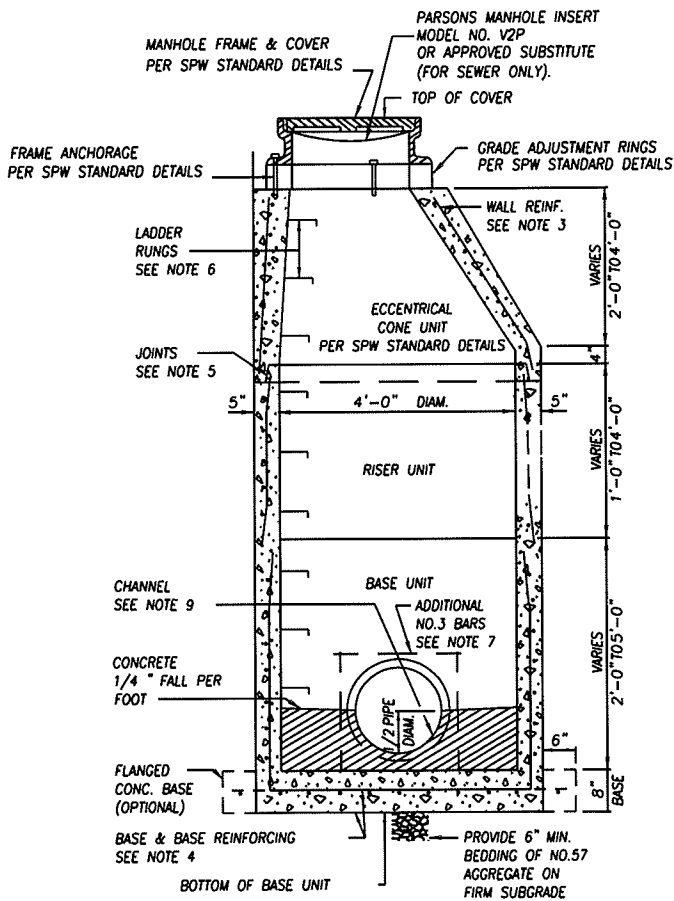
STD. NO. 400.11



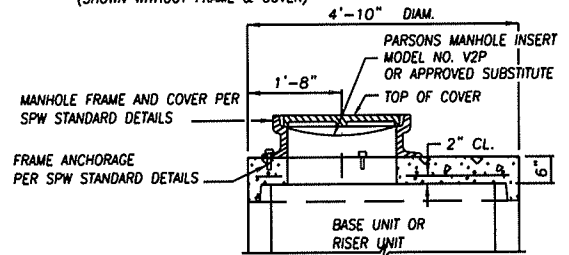
ALTERNATE ECCENTRIC
CONE UNIT



FLAT SLAB TOP
(SHOWN WITHOUT FRAME & COVER)



SECTION VIEW



SECTION B-B

NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
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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.

REVISED: 01/01/14

CITY OF
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SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Pollack
DEPUTY DIRECTOR

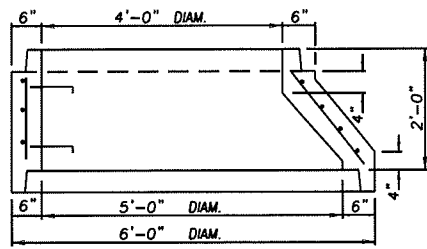
48" DIAMETER
MANHOLE
FOR PIPES UP TO 24"

DATE 02/04/10

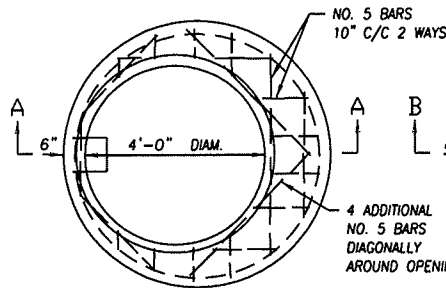
SCALE N.T.S.

DWG. NO. 400.13

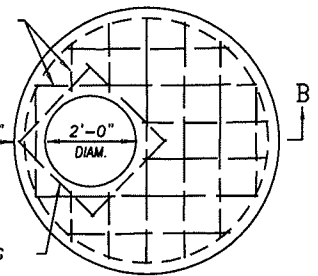
STD. NO. 400.13



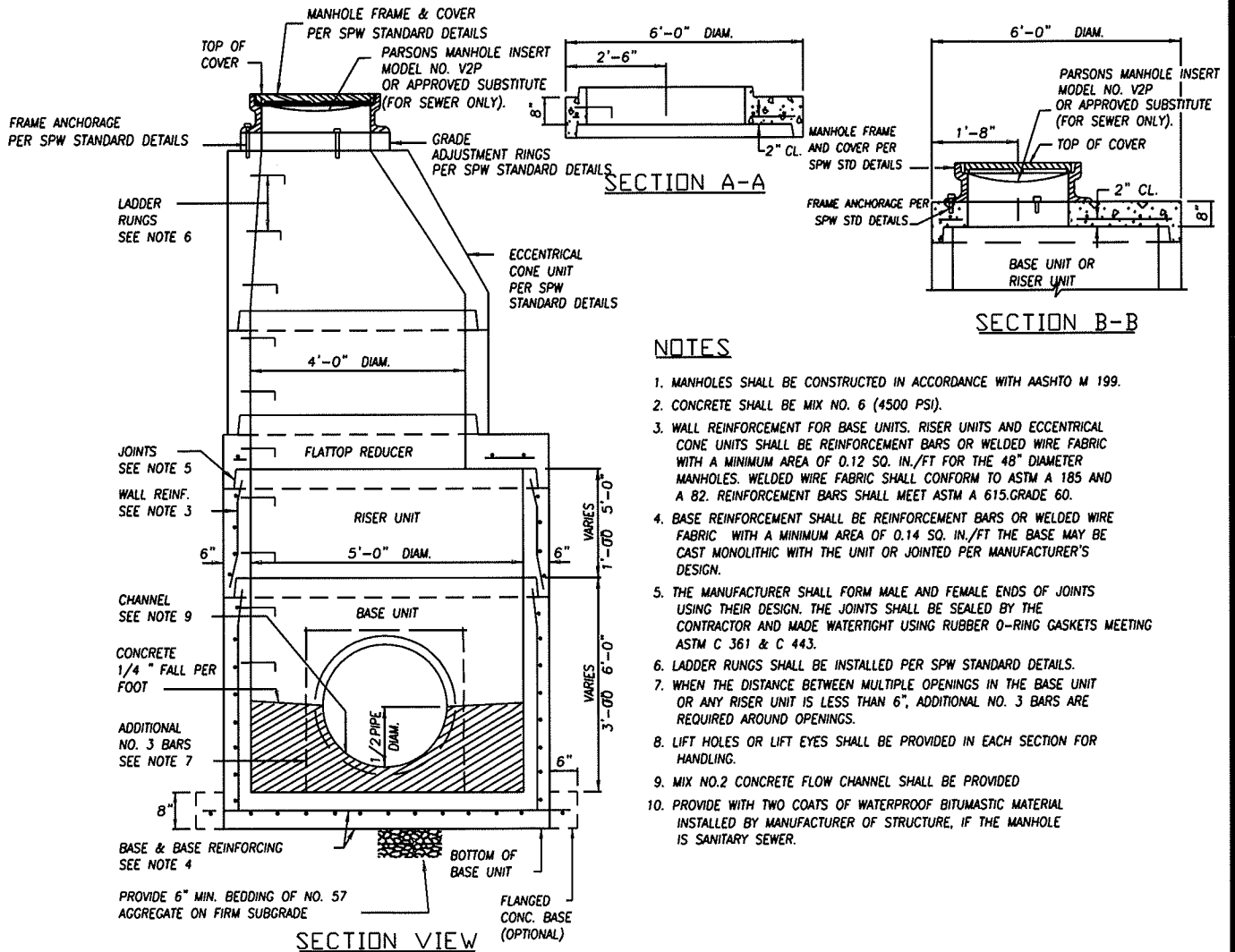
ECCENTRIC CONE REDUCER
(ALTERNATE FOR FLATTOP REDUCER)



FLATTOP REDUCER



FLAT SLAB TOP
(SHOWN WITHOUT FRAME & COVER)



NOTES

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10. PROVIDE WITH TWO COATS OF WATERPROOF BITUMASTIC MATERIAL INSTALLED BY MANUFACTURER OF STRUCTURE, IF THE MANHOLE IS SANITARY SEWER.

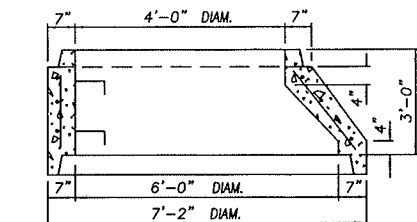
REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
Amanda Pollack
DEPUTY DIRECTOR
DATE

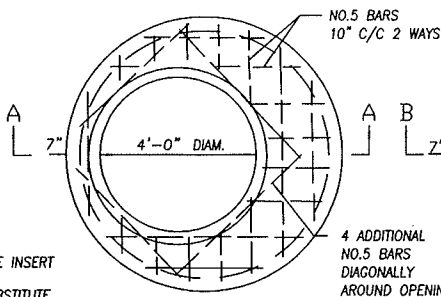
**60" DIAMETER
MANHOLE
FOR
27" TO 36" PIPES**

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

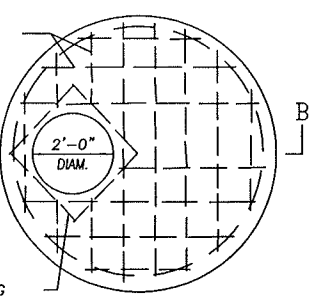


ECCENTRIC CONE REDUCER

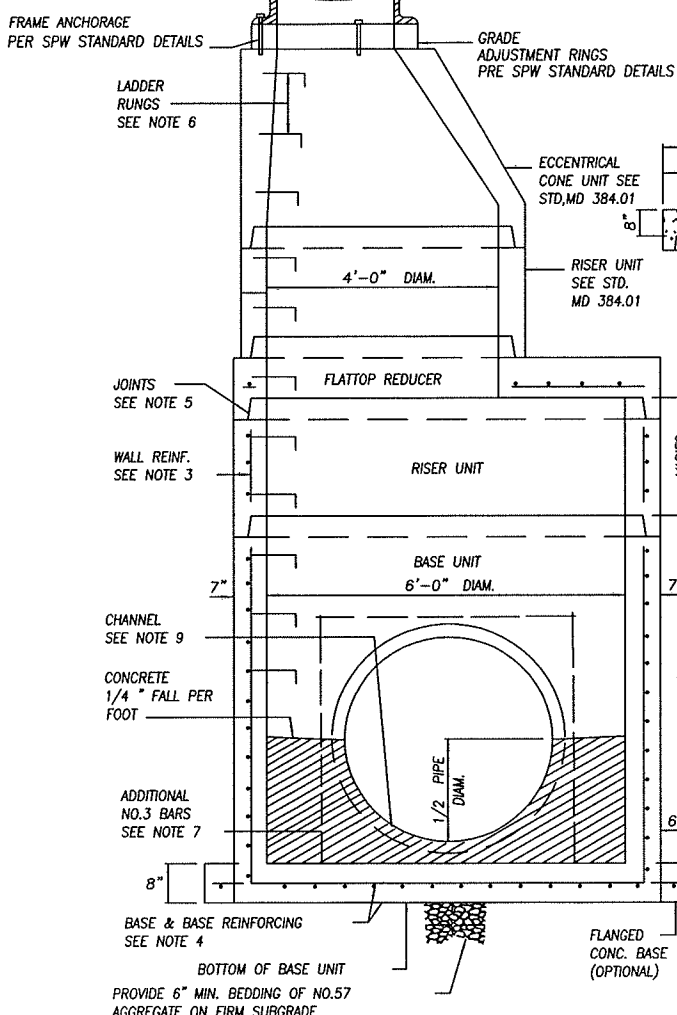
(ALTERNATE FOR FLATTOP REDUCER)
 MANHOLE FRAME & COVER PER SPW STANDARD DETAILS
 TOP OF COVER
 PARSONS MANHOLE INSERT MODEL NO. V2P OR APPROVED SUBSTITUTE (FOR SEWER ONLY).



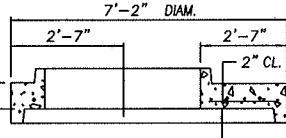
FLATTOP REDUCER



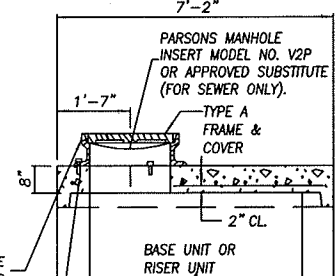
FLAT SLAB TOP
 (SHOWN WITHOUT FRAME & COVER)



SECTION VIEW



SECTION A-A



SECTION B-B

NOTES

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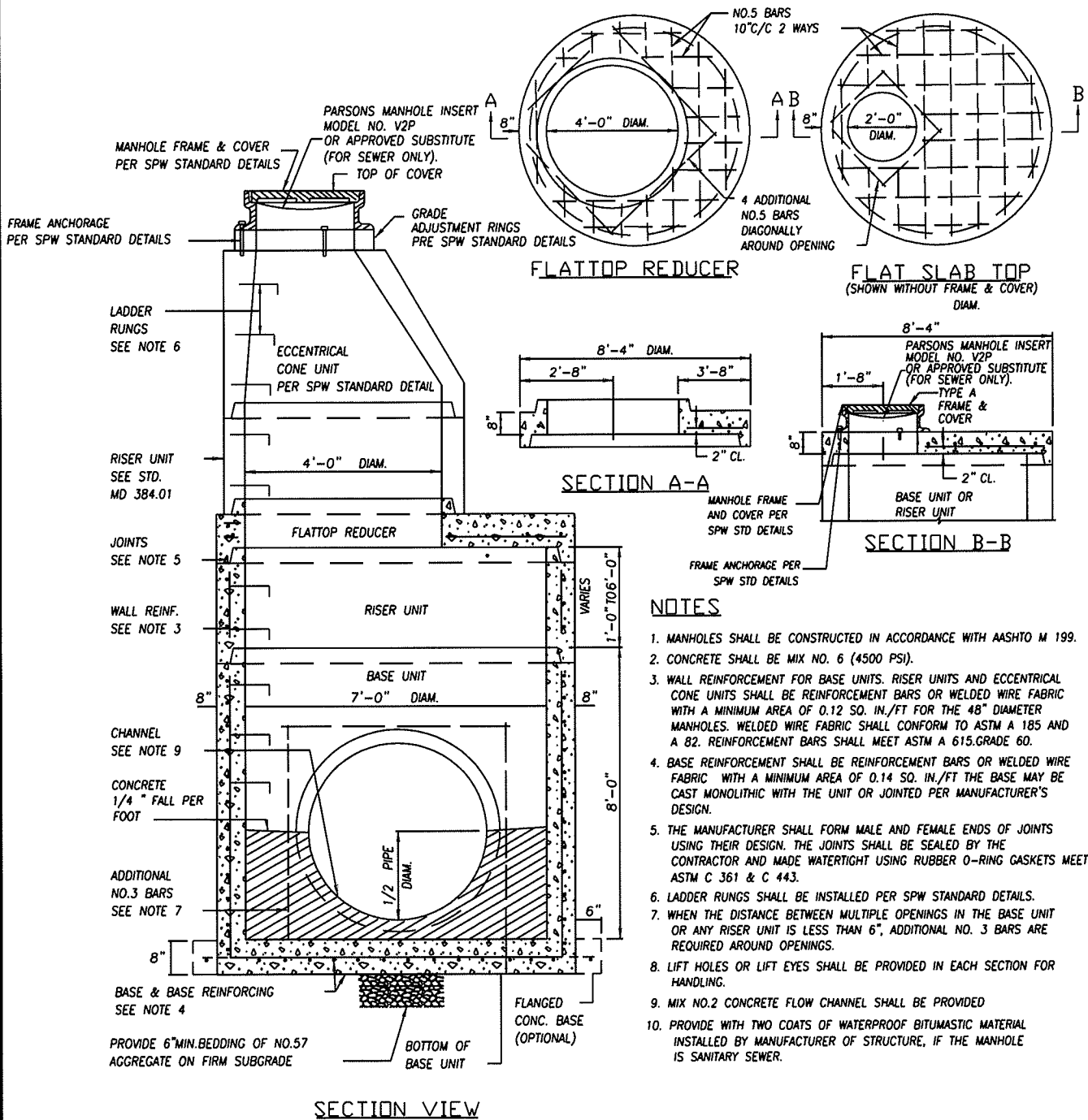
REVISED: 01/01/14

CITY OF
 SALISBURY
 SALISBURY, MD

APPROVED
 1/1/14
 Amanda Pollack
 DEPUTY DIRECTOR
 DATE

72" DIAMETER
 MANHOLE
 FOR
 42" TO 48" PIPES

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



- NOTES**
1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
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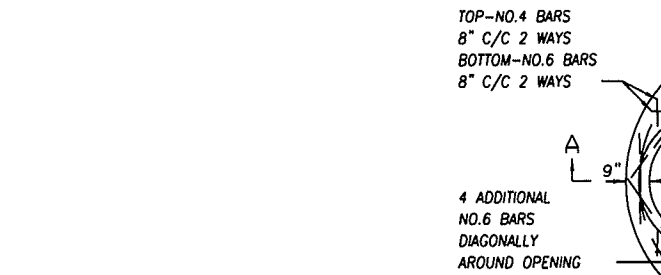
REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

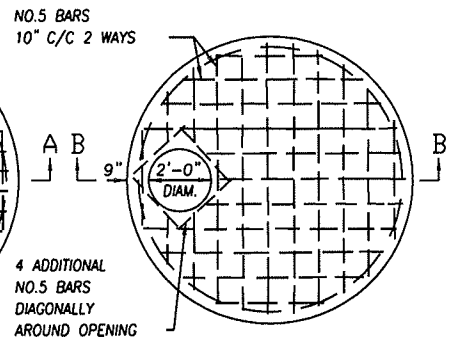
APPROVED
1/1/14
Amanda Pollack
DEPUTY DIRECTOR
DATE

84" DIAMETER
MANHOLE
FOR
54" TO 60" PIPES

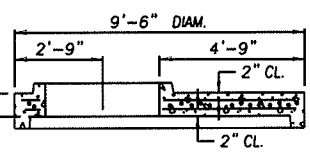
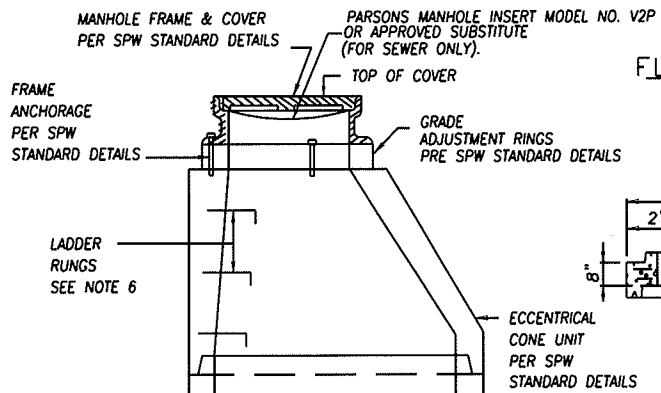
DATE	02/04/10
SCALE	N.T.S.
DWG. NO.	STD400.16
STD. NO.	400.16



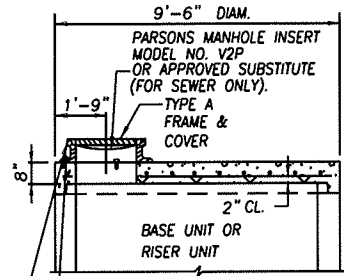
FLATTOP REDUCER



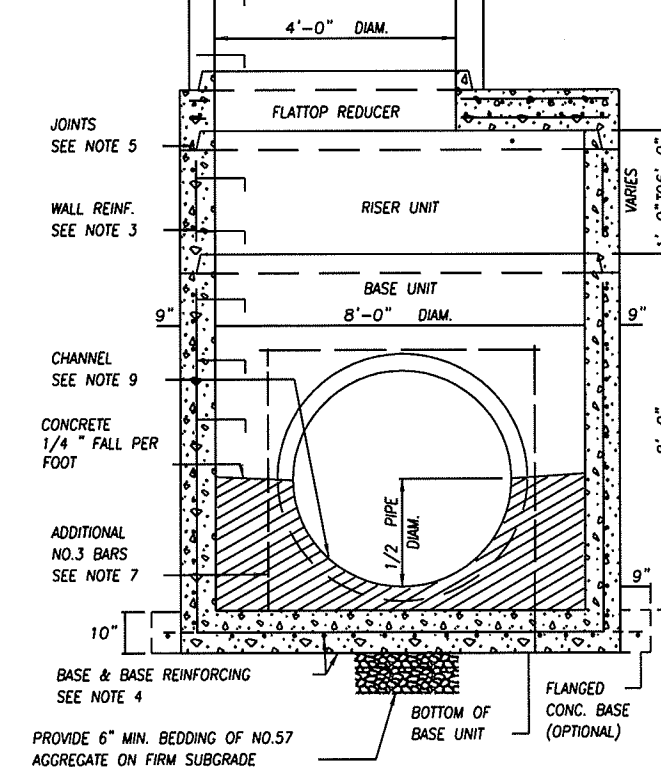
FLAT SLAB TOP
(SHOWN WITHOUT FRAME & COVER)



SECTION A-A



SECTION B-B



SECTION VIEW

NOTES

1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
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REVISED: 01/01/14

CITY OF
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SALISBURY, MD

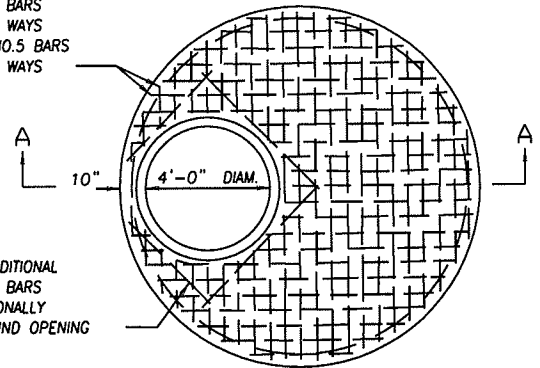
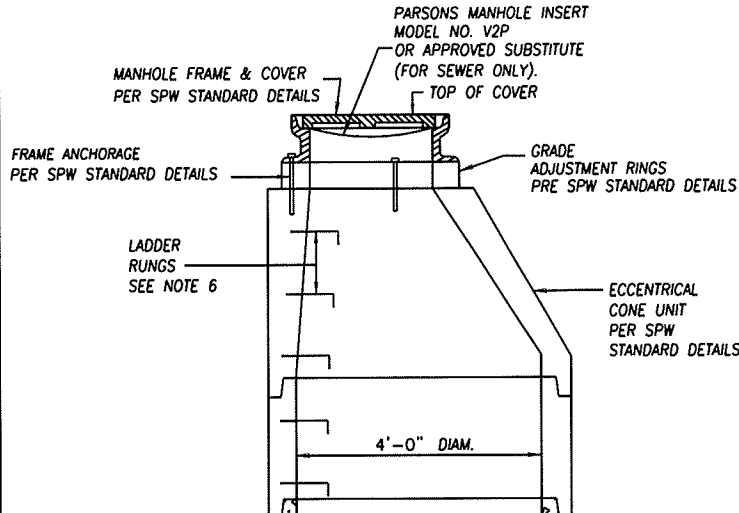
APPROVED
1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

90" DIAMETER
MANHOLE
FOR
72" PIPES

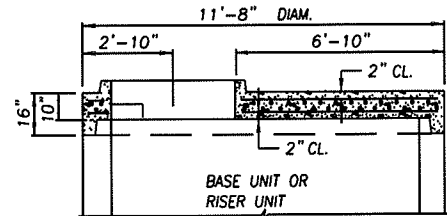
DATE 02/04/10
SCALE N.T.S.
DWG. NO. STD40017
STD. NO. 400.17

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

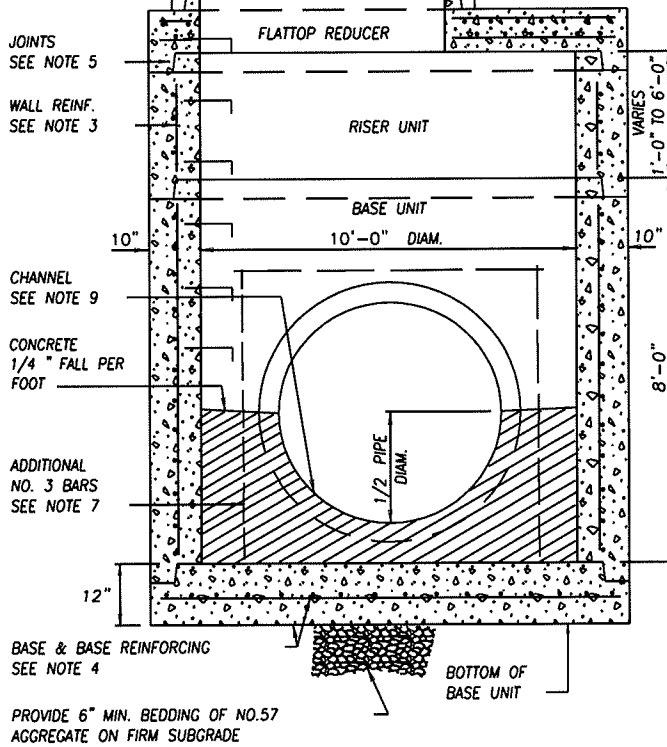
TOP-NO.4 BARS
6" C/C 2 WAYS
BOTTOM-NO.5 BARS
6" C/C 2 WAYS



FLATTOP REDUCER



SECTION A-A



NOTES

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SECTION VIEW

REVISED: 01/01/14

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SALISBURY
SALISBURY, MD

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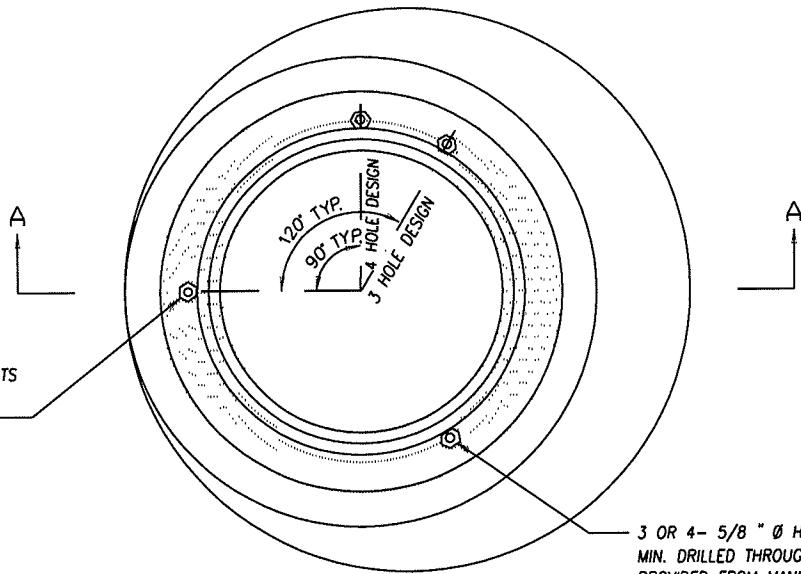
120" DIAMETER MANHOLE
FOR
78" TO 84" PIPES

DATE 02/04/10

SCALE N.T.S.

DWG. NO. STD40018

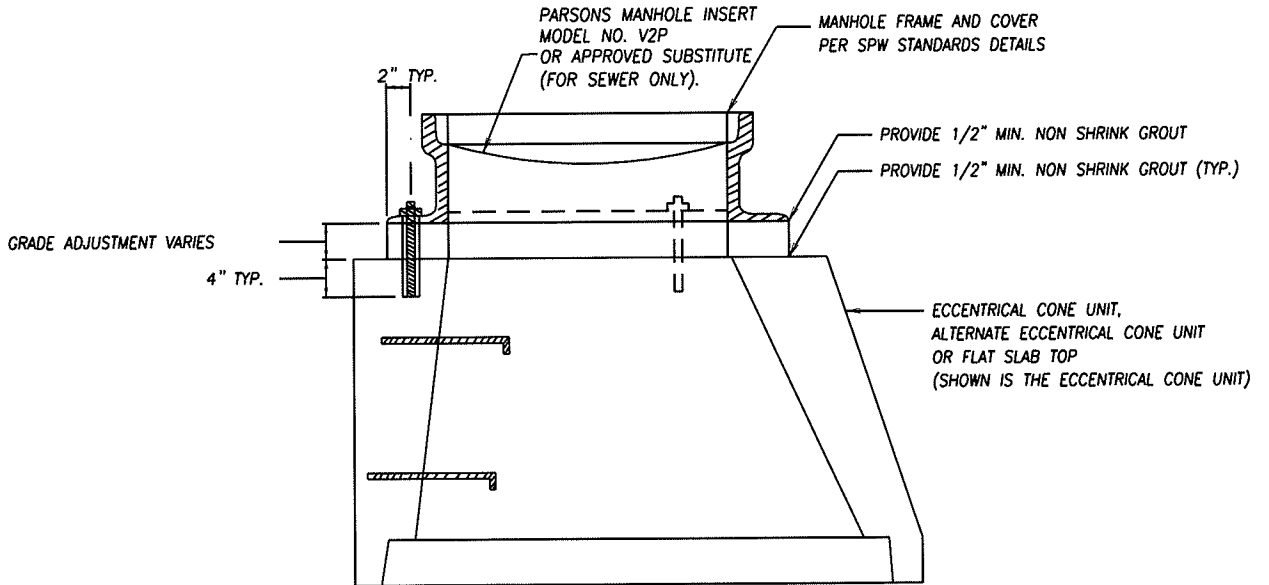
STD. NO. 400.18



3 OR 4- 1/2" Ø HEX HEAD BOLTS
WITH THREADED INSERTS
OR
3 OR 4- 1/2" THREADED STUDS
WITH HEX HEAD NUTS.
STUDS TO BE GROUTED
IN PLACE OR ANCHORED
WITH A CONCRETE COMPATIBLE
CHEMICAL ADHESIVE.

3 OR 4- 5/8" Ø HOLES FIELD
MIN. DRILLED THROUGH FRAME OR
PROVIDED FROM MANUFACTURER

PLAN



SECTION A-A

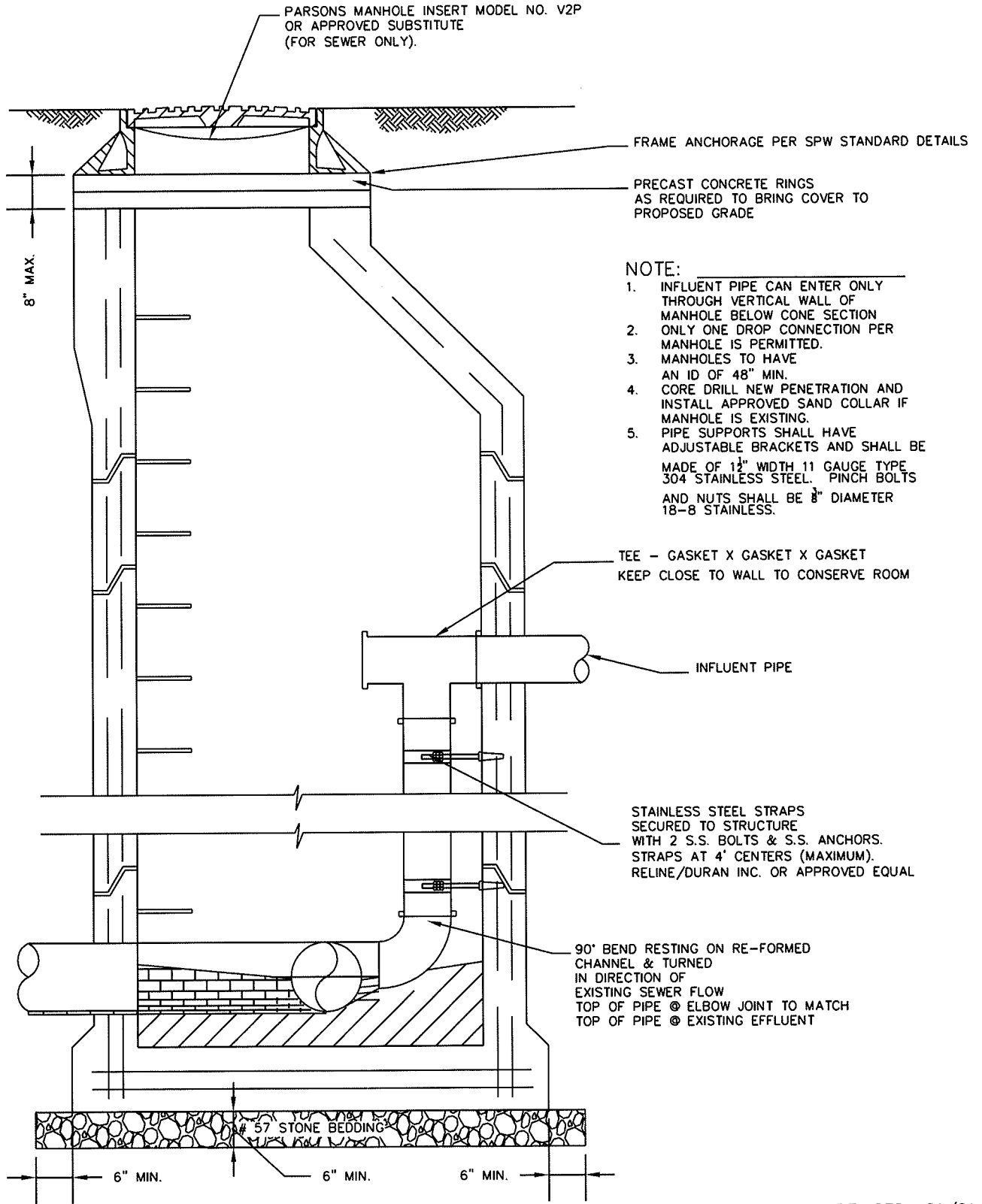
REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

FRAME ANCHORAGE
FOR
PRECAST MANHOLES

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



REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

INTERNAL DROP
CONNECTION

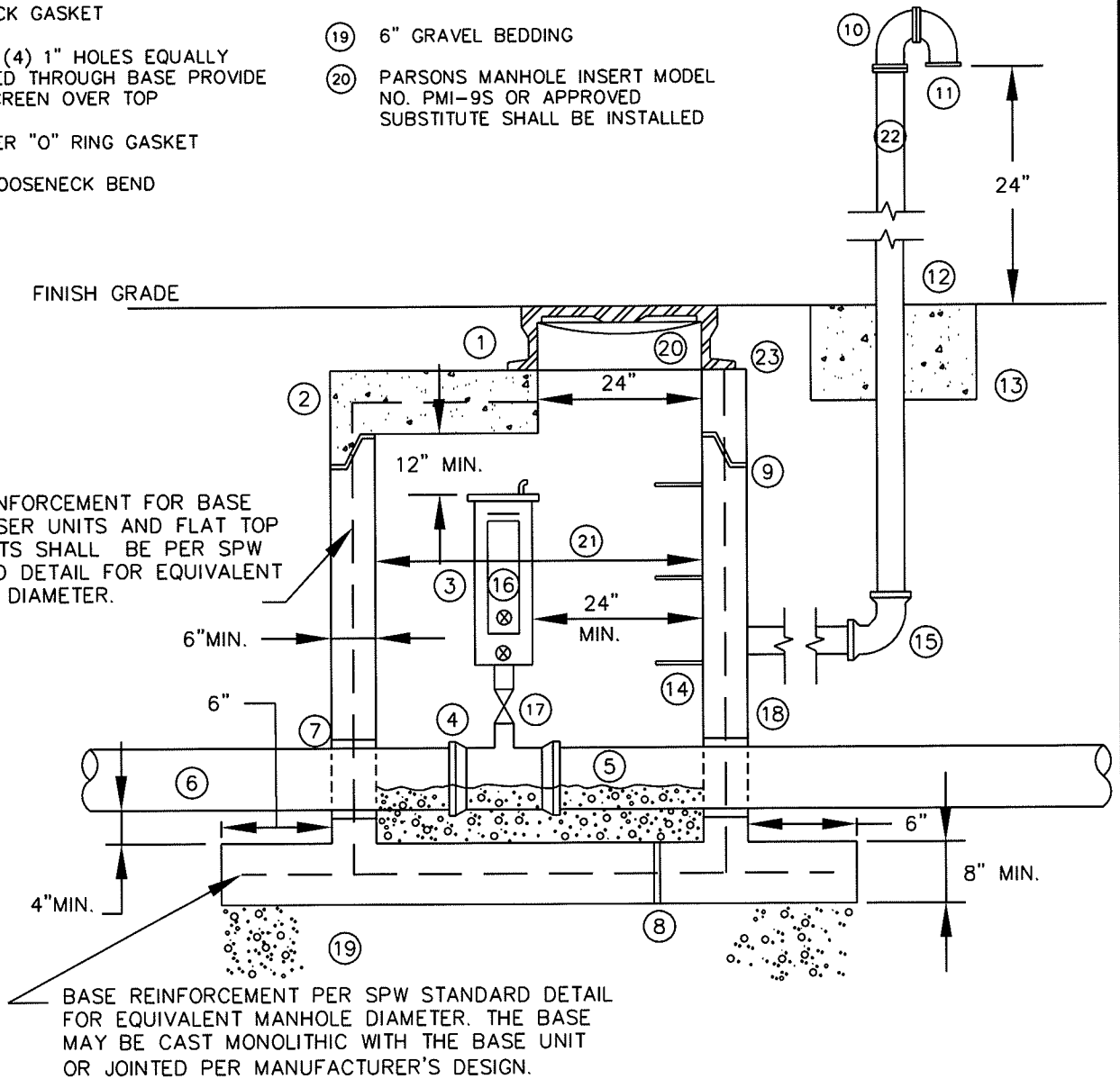
DATE	8/11/86
SCALE	NONE
DWG. NO.	STD40023
STD. NO.	400.23

- ① FRAME, COVER, AND FRAME ANCHORAGE PER SPW STANDARD DETAILS
- ② REINFORCED CONCRETE SLAB. SEE SPW 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 SPW 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 SPW STANDARD DETAILS

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

FINISH GRADE

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



REVISED: 01/01/14

CITY OF
 SALISBURY
 SALISBURY, MD

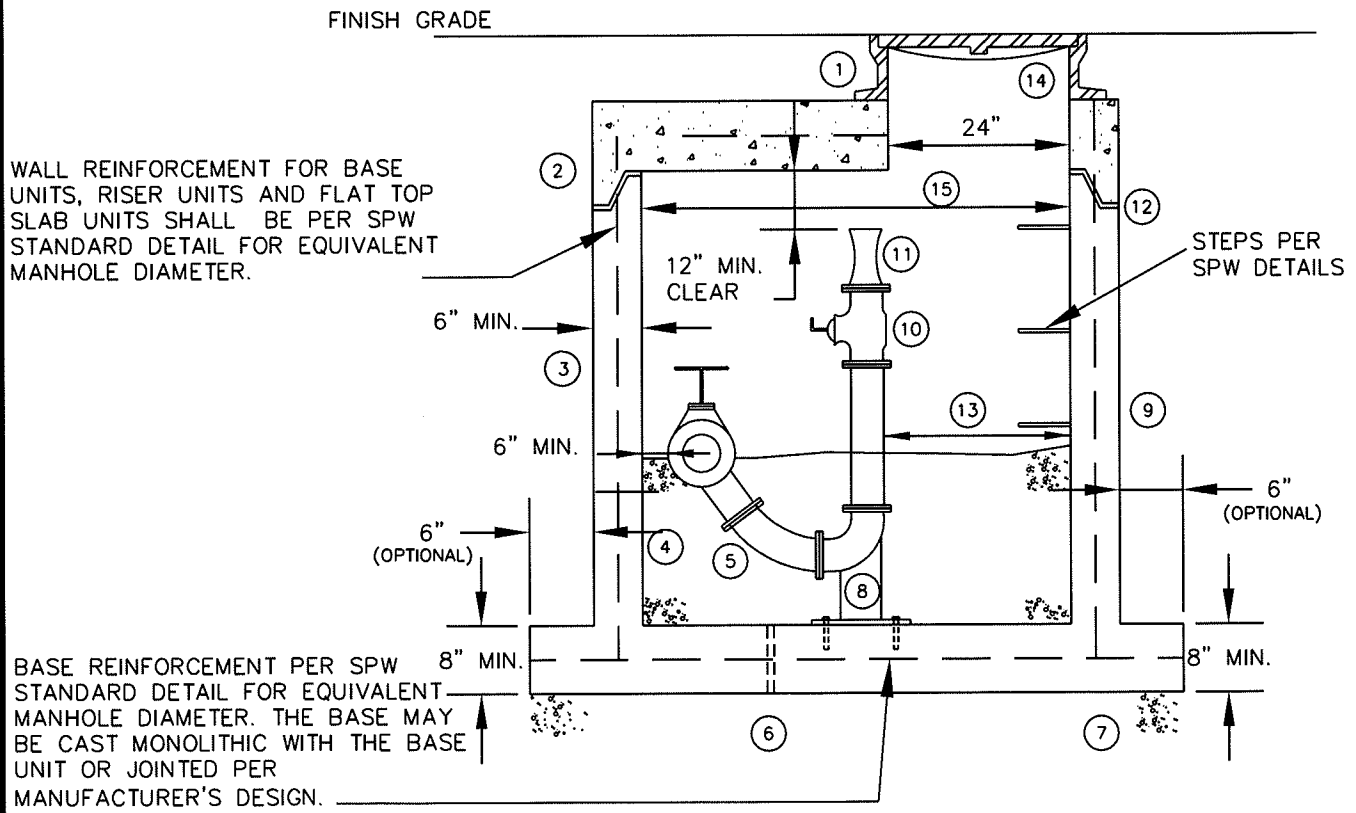
APPROVED
 1/1/14
 DATE
 Amanda Pollack
 DEPUTY DIRECTOR

FORCE MAIN
 AIR VALVE
 ACCESS MANHOLE

DATE	04/05/89
SCALE	SCALE
DWG. NO.	STD40026
STD. NO.	400.26

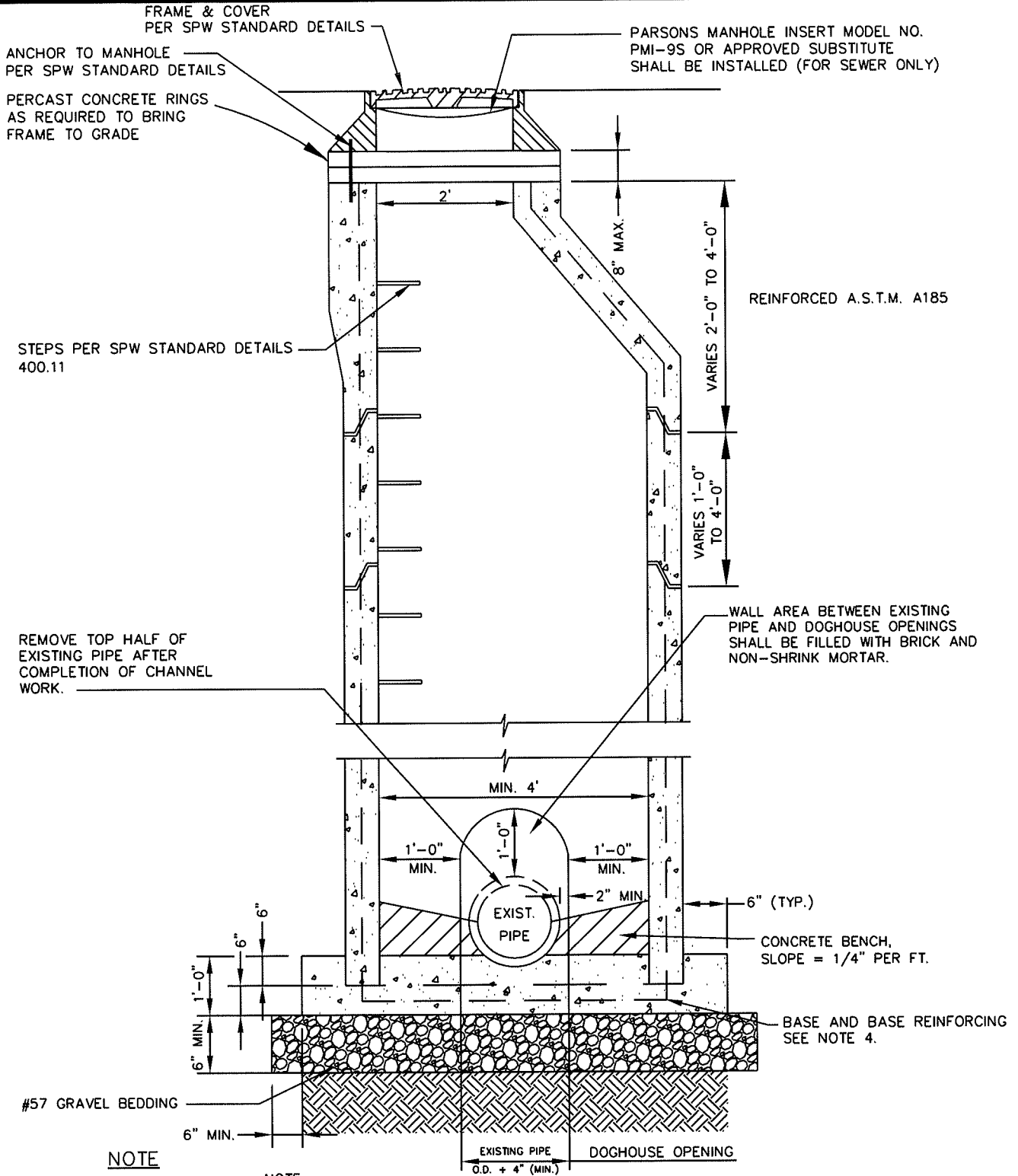
- ① FRAME, COVER, AND FRAME ANCHORAGE PER SPW STANDARD DETAILS
- ② REINFORCED CONCRETE SLAB. SEE SPW STANDARD DETAIL FOR EQUIVALENT MANHOLE DIAMETER.
- ③ 2 COATS WATERPROOF BITUMASTIC MATERIAL
- ④ WASHED GRAVEL FILL TO SPRING LINE OF FORCE MAIN
- ⑤ 45° BEND
- ⑥ DRILL (4) 1" HOLES EQUALLY SPACED THROUGH BASE. PROVIDE SS SCREEN OVER TOP
- ⑦ 6" GRAVEL BEDDING
- ⑧ 90° BEND W/DRILLED BASE ANCHORED TO MANHOLE BASE W/ 3/4"Ø 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 SPW STANDARD DETAILS.
 MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.



REVISION 01/01/14

CITY OF SALISBURY SALISBURY, MD	APPROVED	FORCE MAIN ACCESS MANHOLE	DATE	03/31/99
	1/1/14		SCALE	NONE
	<i>Amanda Pollack</i>		DWG. NO.	STD40027
	DEPUTY DIRECTOR		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.

NOTE:

- IF EXISTING PIPE IS TERRA COTTA: PRIOR TO INSTALLING MANHOLE, REMOVE PIPE FROM 10' EACH WAY OF ϕ MANHOLE (20' TOTAL LENGTH) AND REPLACE WITH SDR-35 OF SAME ID AND JOIN WITH FERNCO COUPLINGS. SDR-35 PIPE SHALL BE INSTALLED WITH 12" THICK # 57 STONE BEDDING EXTENDING TO SPRINGLINE OF PIPE.
- MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO M 199.
- CONCRETE SHALL BE MIX NO. 6 (4500 PSI).

REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14
Amanda Pollack
DEPUTY DIRECTOR

DATE

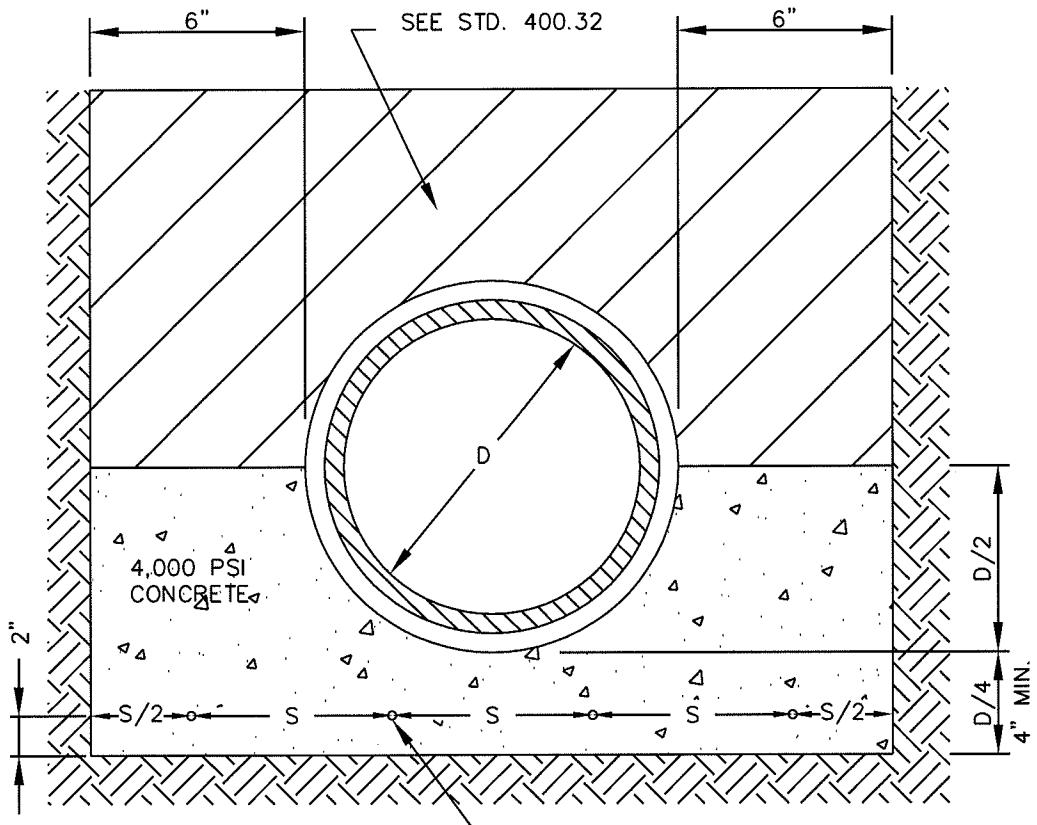
STANDARD DOGHOUSE
MANHOLE
SEWER & STORM WATER

DATE 6/11/86

SCALE NONE

DWG. NO. STD40028

STD. NO. 400.28



SEE STD. 400.32

4,000 PSI
CONCRETE

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

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

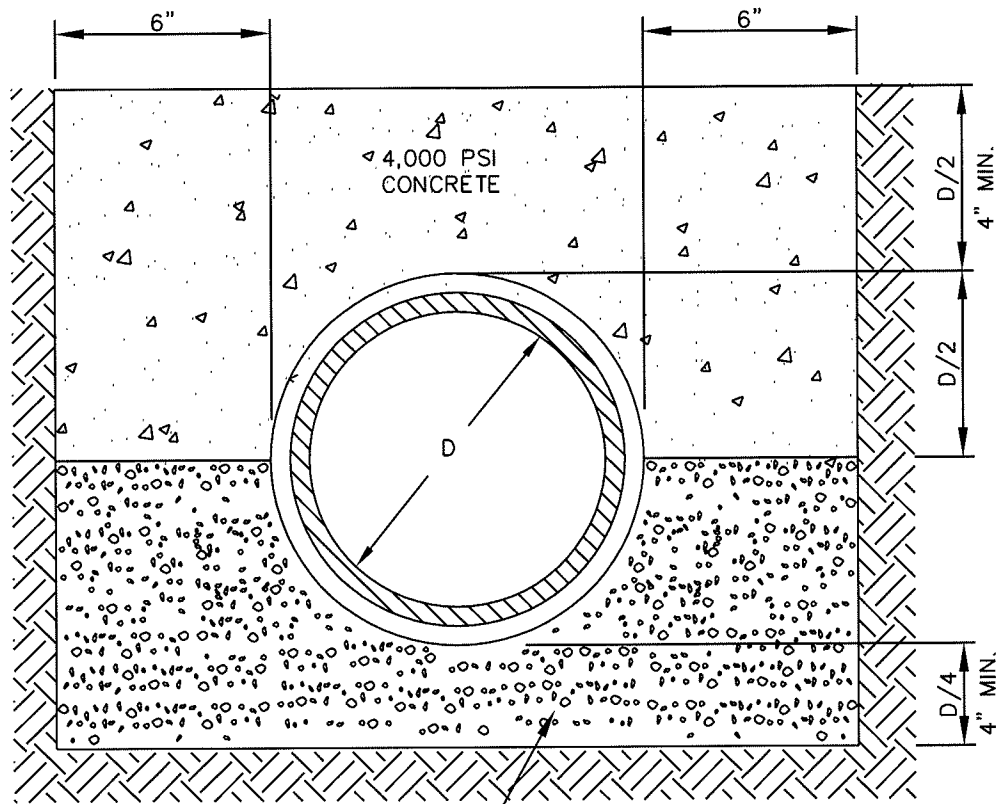
REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

CONCRETE CRADLE
SANITARY SEWER OR
STORMWATER DRAINS

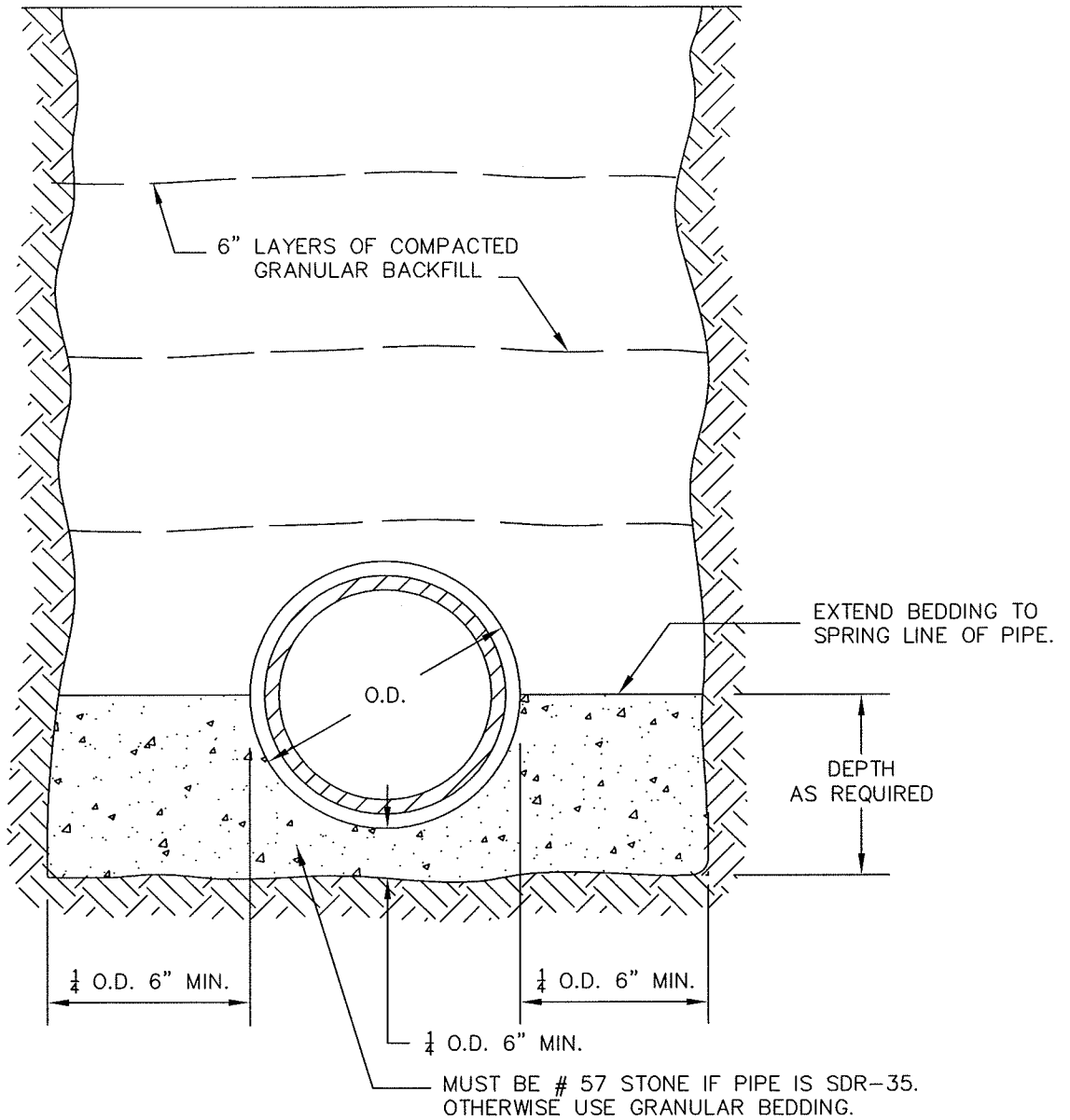
DATE	08/29/86
SCALE	NONE
DWG. NO.	STD40030
STD. NO.	400.30



APPROVED
GRAVEL
BEDDING

REVISED: 01/01/14

CITY OF SALISBURY SALISBURY, MD	APPROVED 1/1/14 _____ DATE	CONCRETE ARCH SANITARY SEWERS OR STORMWATER DRAINS	DATE 08/29/86
	_____ Amanda Pollack DEPUTY DIRECTOR		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.

REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Pollack
DEPUTY DIRECTOR

TYPICAL DETAIL
PIPE TRENCH & BEDDING

DATE 8/29/86

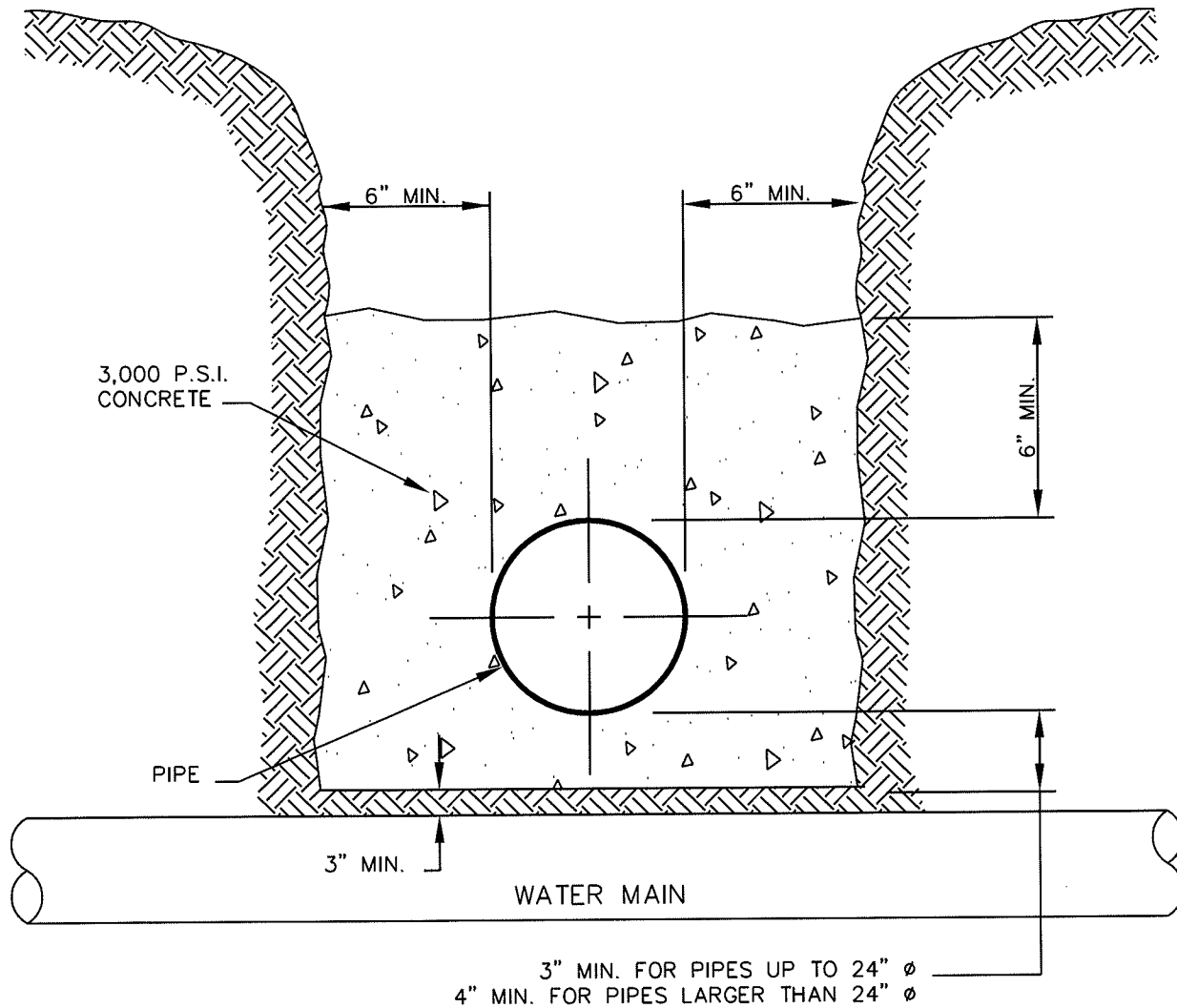
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DWG. NO. STD400.32

STD. NO. 400.32

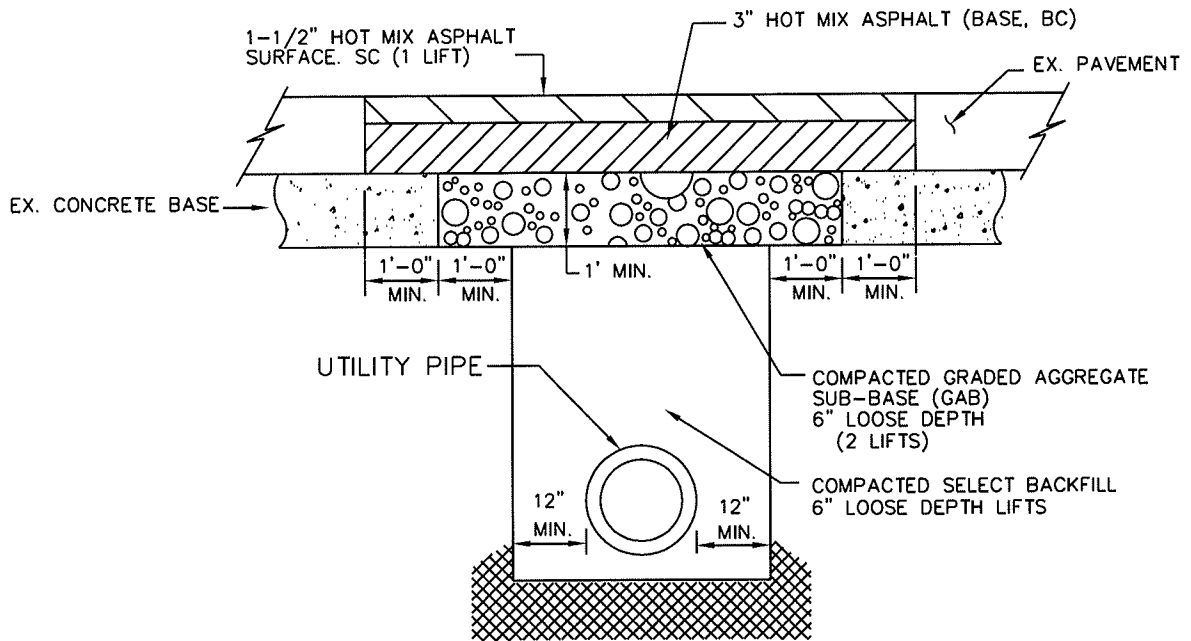
NOTES:

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.



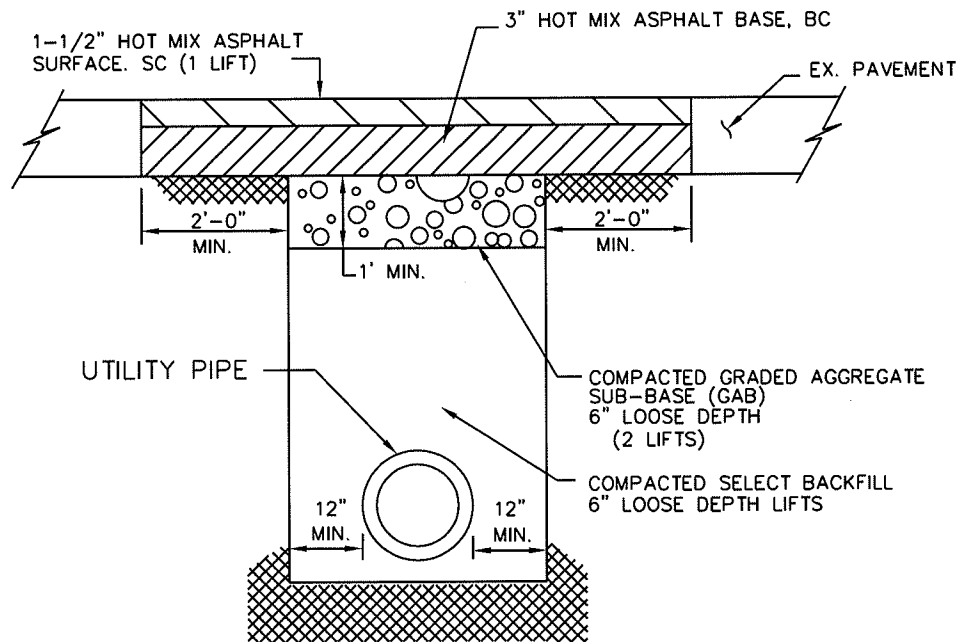
REVISION: 01/01/14

<p>CITY OF SALISBURY SALISBURY, MD</p>	<p>APPROVED 1/1/14 DATE <i>Amanda Pollack</i> DEPUTY DIRECTOR</p>	<p>SANITARY SEWER ENCASEMENT DETAIL</p>	<p>DATE 02/06/08</p>
			<p>SCALE NONE</p>
			<p>DWG. NO. STD40033</p>
			<p>STD. NO. 400.33</p>



**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)**

REVISION: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

Amanda Bellack
CITY ENGINEER

DATE

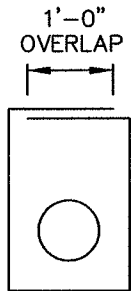
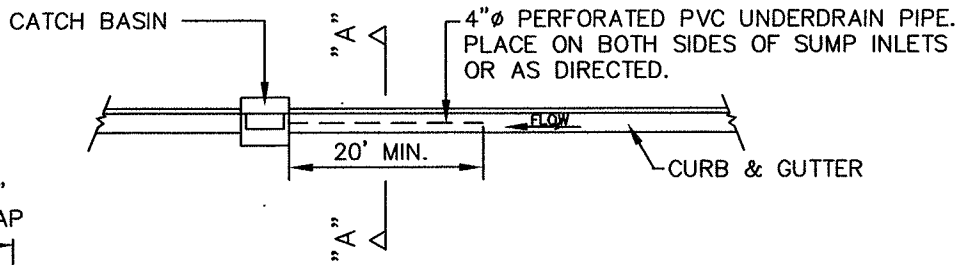
**UTILITY TRENCH
REPAIR DETAILS**

DATE 10/29/98

SCALE NONE

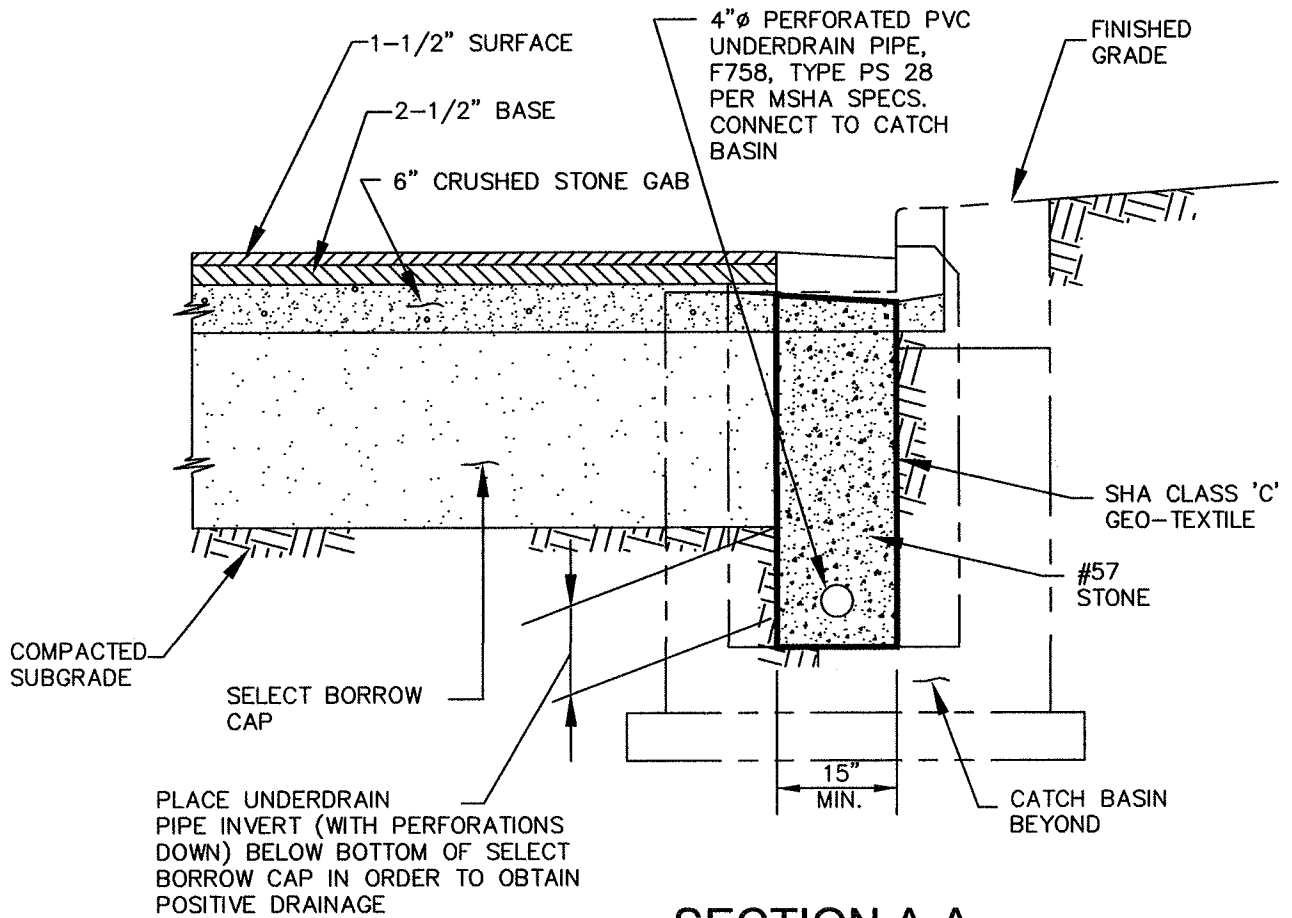
DWG. NO. STD40035

STD. NO. 400.35



PLAN
SCALE: 1"=20'

GEOTEXTILE FABRIC
DETAIL



SECTION A-A
SCALE: 1"=2'

REVISED 1/01/14

CITY OF
SALISBURY
SALISBURY, MD

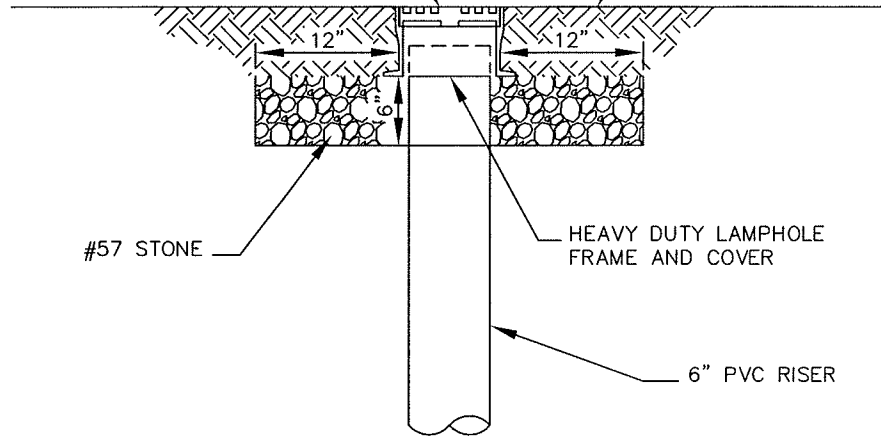
APPROVED
1/1/14
Amanda Pollack DATE
CITY ENGINEER

**SUBGRADE
UNDERDRAIN DETAIL**

DATE 6/02/01
SCALE NONE
DWG. NO. STD40036
STD. NO. 400.36

EAST JORDAN
IRON WORKS
FRAME #00156411
COVER #00156428

FINISHED GRADE



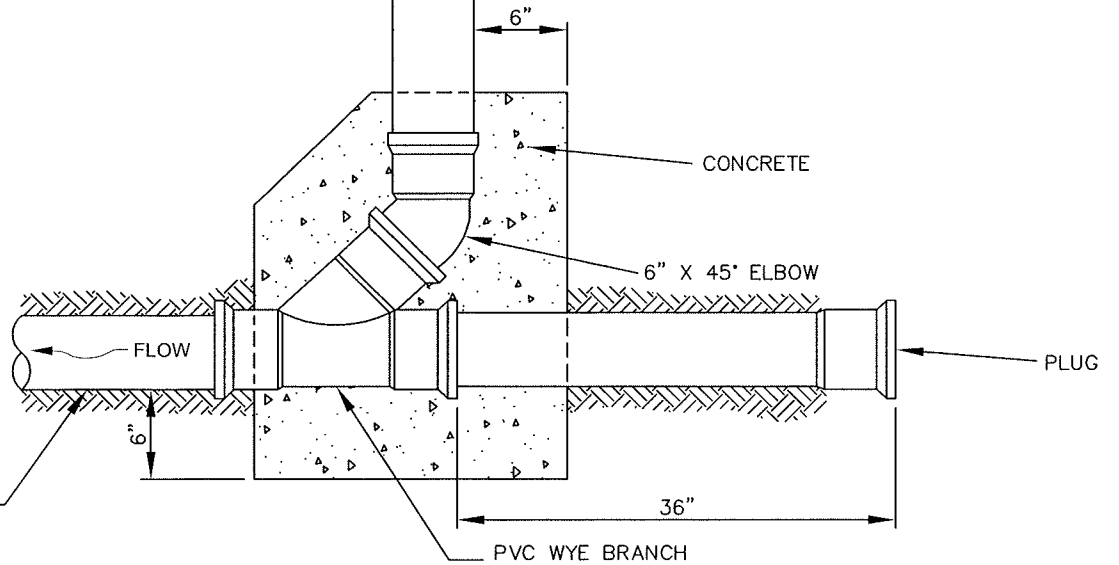
#57 STONE

HEAVY DUTY LAMP
HOLE FRAME AND
COVER

6" PVC RISER

NOTE:

1. AREA BASE SHALL BE #57 STONE 6" DEEP AND EXTENDING 12" ON ALL SIDES



CONCRETE

6" X 45° ELBOW

PLUG

FLOW

PVC SEWER

PVC WYE BRANCH

REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Black
DEPUTY DIRECTOR

STANDARD CLEANOUT
FOR SEWER LINES
IN CITY STREETS

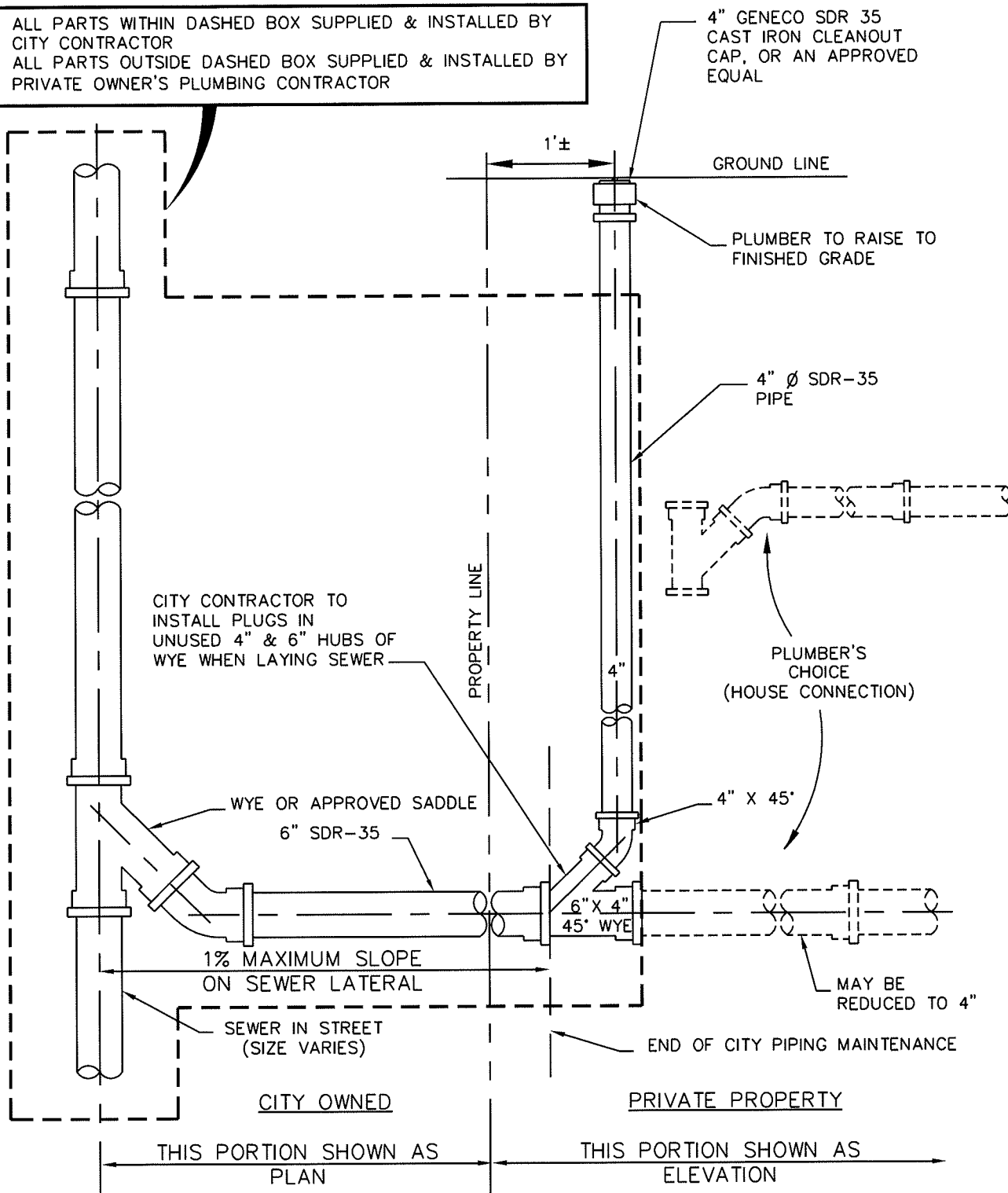
DATE 3/30/94

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

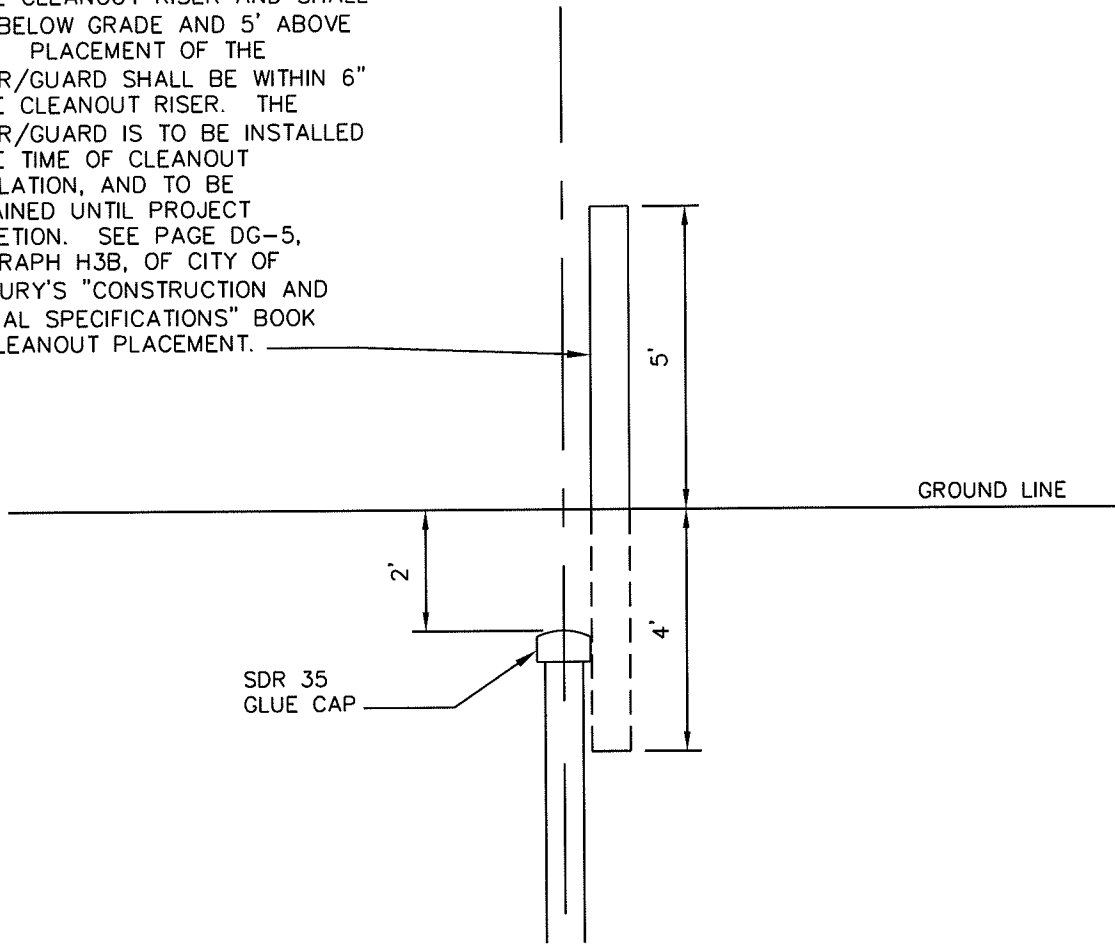


CLEANOUTS INSTALLED IN DRIVEWAYS SHALL BE FINISHED WITH A CONCRETE COLLAR EXTENDING 1.0' BEYOND THE FRAME OF THE CLEANOUT CAP. THE COLLAR SHALL BE 6" THICK AND BE SUPPORTED BY A 6" BASE OF CR-6 AGGREGATE WHICH IN TURN SHALL BE SUPPORTED BY SUITABLE SOIL COMPACTED TO 95% PROCTOR. CONCRETE COLLARS SHALL BE INSTALLED AFTER THE TOP OF THE CLEANOUT CAPS ARE ADJUSTED TO FINISHED GRADE. IF INSTALLED IN UNPAVED AREAS SLOPE THE SURROUNDING EARTH AROUND CLEANOUT IN A WAY AS TO CREATE POSITIVE DRAINAGE AWAY FROM THE CAP.

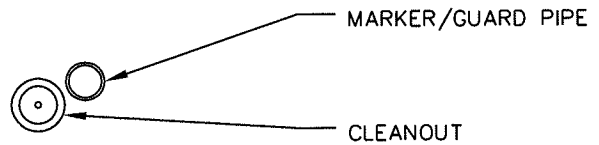
REVISED: 01/01/14

CITY OF SALISBURY SALISBURY, MD	APPROVED <i>1/1/14</i> <i>Amanda Pollack</i>	STANDARD HOUSE SERVICE SEWER CONNECTION USING PLASTIC PIPE W/ EXISTING SEWER MAIN	DATE 6/28/06
	DATE <i>1/1/14</i>		SCALE NONE
	DEPUTY DIRECTOR		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

REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

DATE

Amanda Pollack
DEPUTY DIRECTOR

STANDARD HOUSE SERVICE
SEWER CONNECTION
CLEANOUT GUARD DETAIL

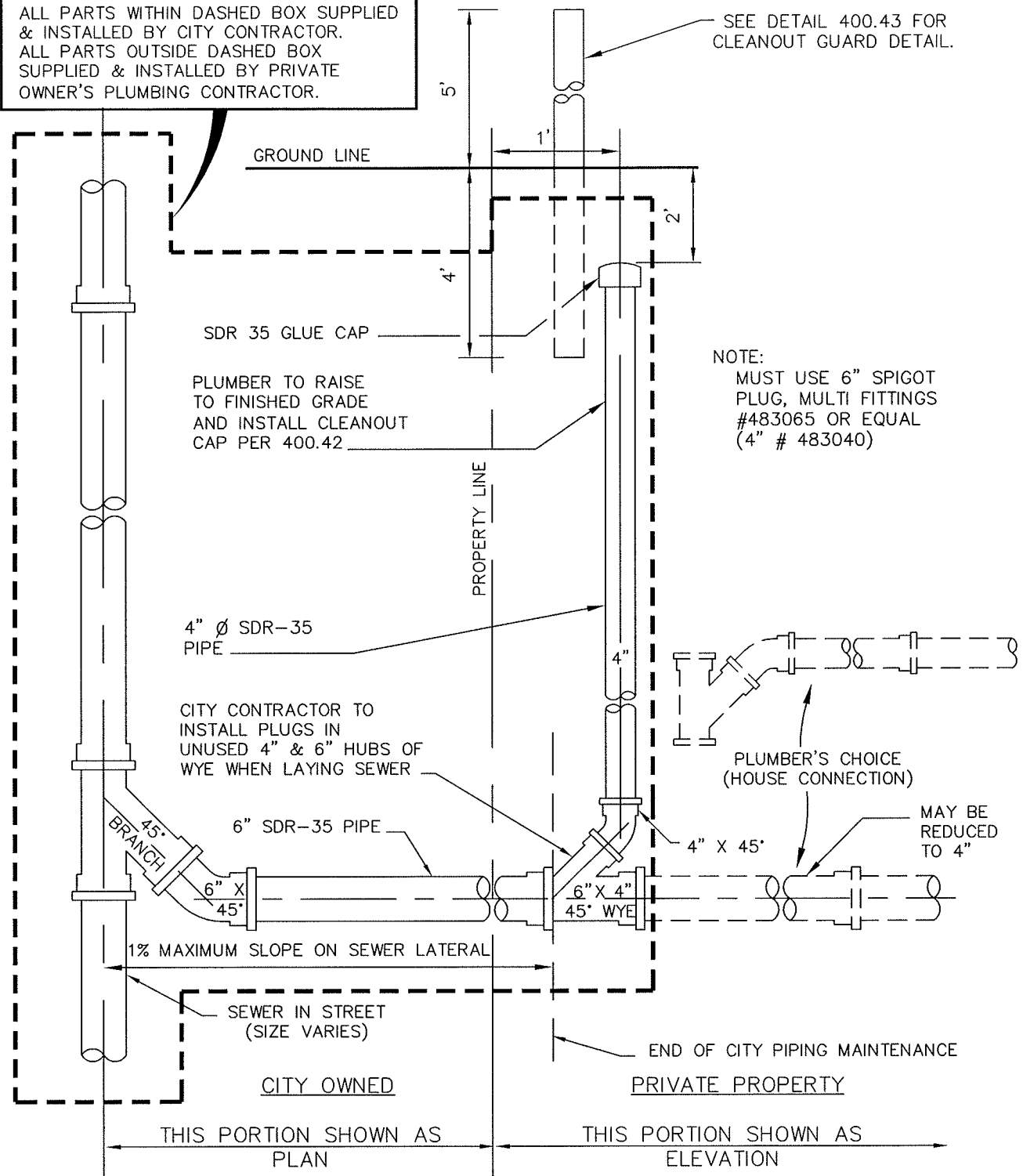
DATE 01/23/06

SCALE NONE

DWG. NO. STD40043

STD. NO. 400.43

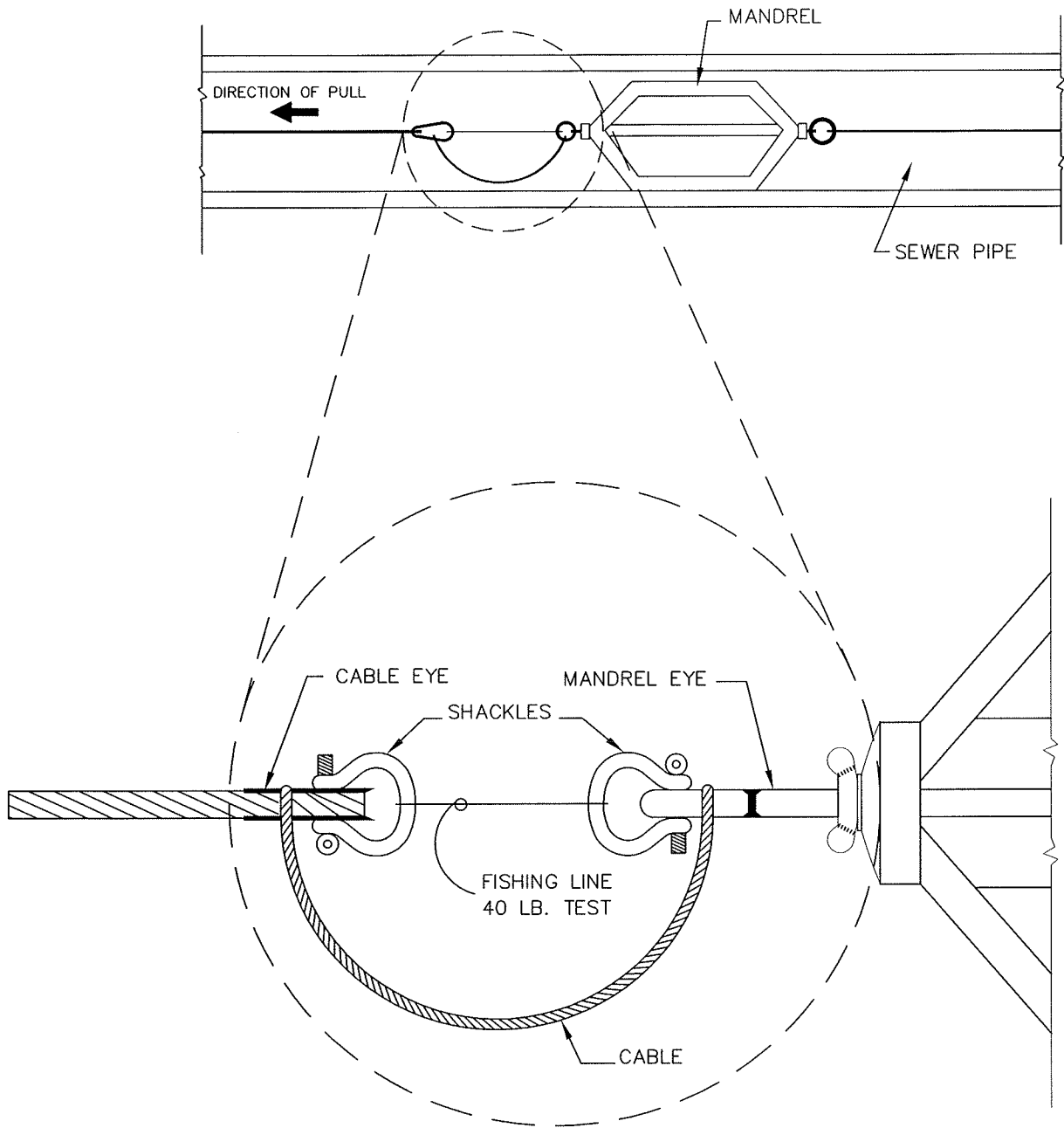
ALL PARTS WITHIN DASHED BOX SUPPLIED & INSTALLED BY CITY CONTRACTOR.
 ALL PARTS OUTSIDE DASHED BOX SUPPLIED & INSTALLED BY PRIVATE OWNER'S PLUMBING CONTRACTOR.



CLEANOUTS INSTALLED IN DRIVEWAYS SHALL BE FINISHED WITH A 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. IF INSTALLED IN UNPAVED AREAS SLOPE THE SURROUNDING EARTH AROUND CLEANOUT IN A WAY AS TO CREATE POSITIVE DRAINAGE AWAY FROM THE CAP.

Revised: 01/01/14

CITY OF SALISBURY SALISBURY, MD	APPROVED <i>1/1/14</i> _____ DATE	STANDARD HOUSE SERVICE SEWER CONNECTION FOR NEW CONSTRUCTION USING PLASTIC PIPE	DATE 1/31/08
	<i>Amanda Pollack</i> DEPUTY DIRECTOR		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.

REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14

Amanda Pellack
CITY ENGINEER

DATE

DEFLECTION TEST
MANDREL METHOD

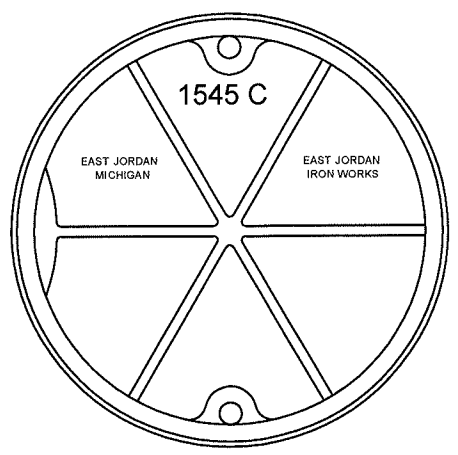
DATE 03/01/12

SCALE NONE

DWG. NO. STD40050

STD. NO. 400.50

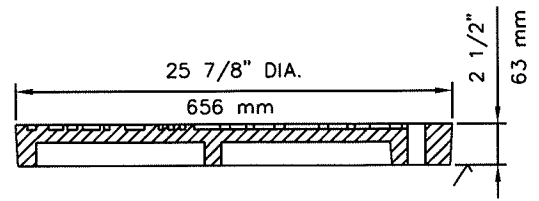
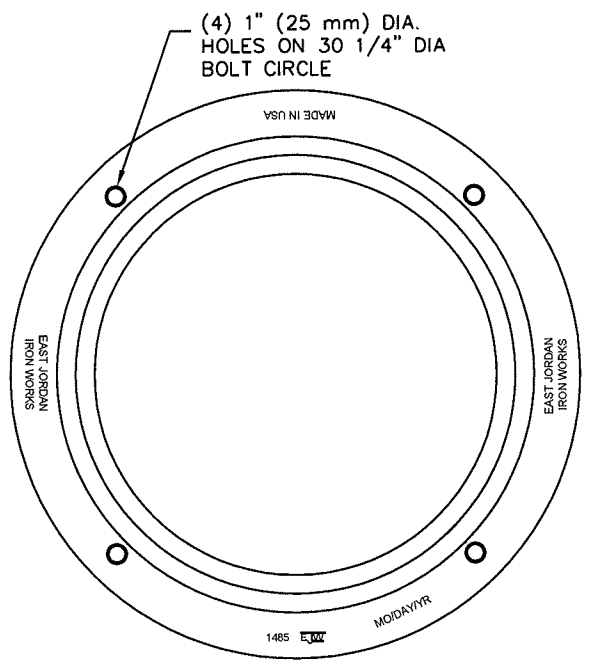
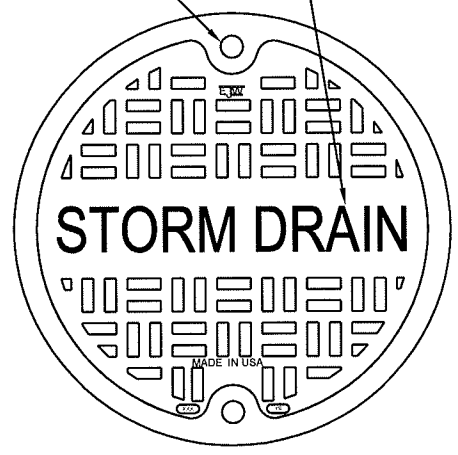
NOTE: NOT FOR USE IN PAVED AREAS.



BOTTOM VIEW

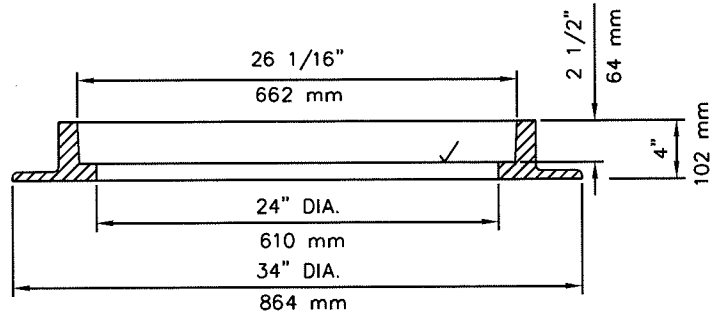
EAST JORDAN
 FRAME #148510
 COVER #154524
 OR APPROVED SUBSTITUTE

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



SECTION

✓ MACHINED SURFACE



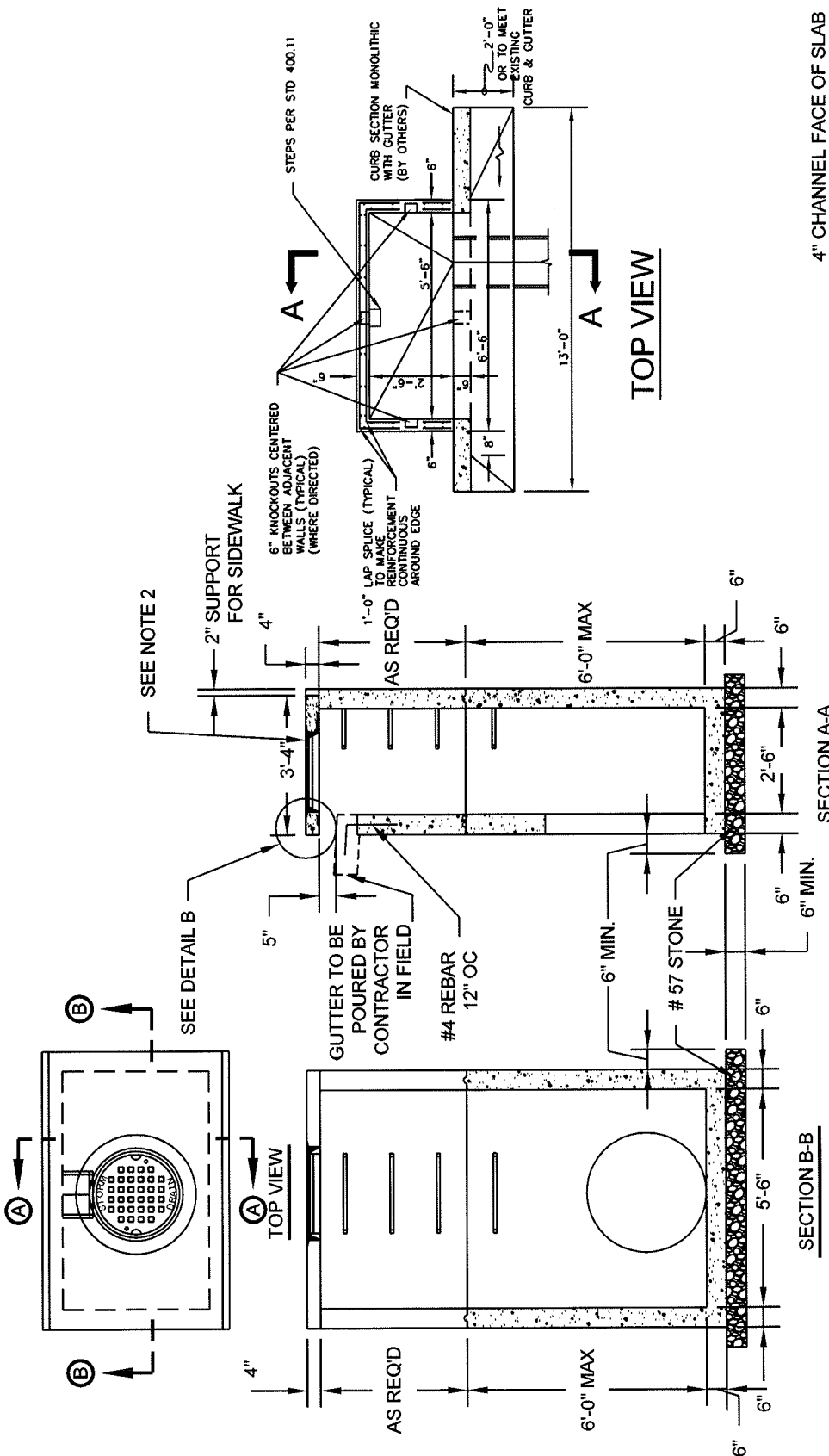
REVISED: 01/01/14

CITY OF
 SALISBURY
 SALISBURY, MD

APPROVED
 11/1/14
 Amanda Pollack
 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. PAINT AFTER WELDING
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)

REVISED: 01/01/14

CITY OF SALISBURY
SALISBURY, MD

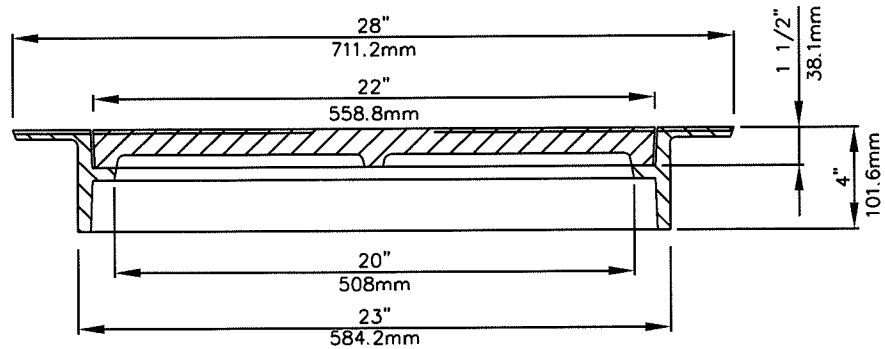
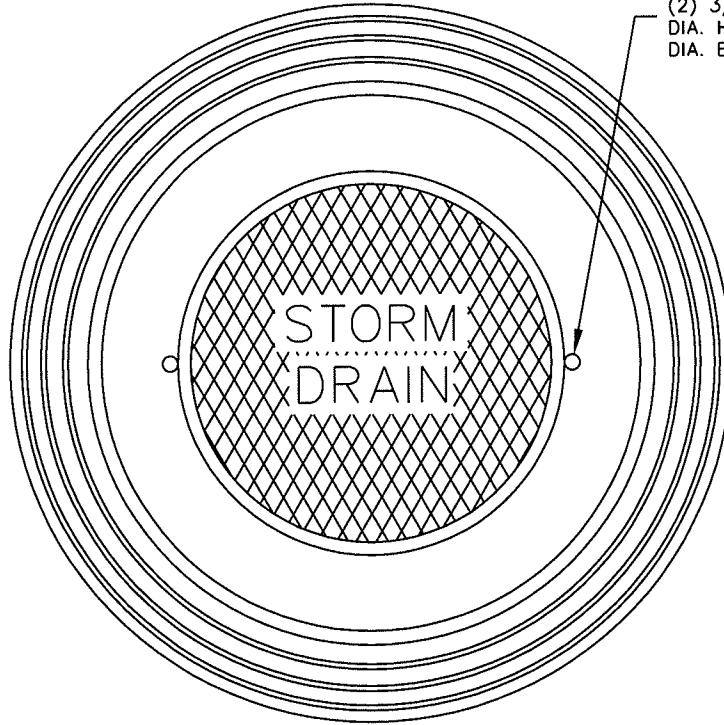
APPROVED
Amanda Pollack
DEPUTY DIRECTOR
DATE

TYPE "A-1" INLET

DATE	1/27/10
SCALE	NONE
DWG. NO.	STD500.45
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.

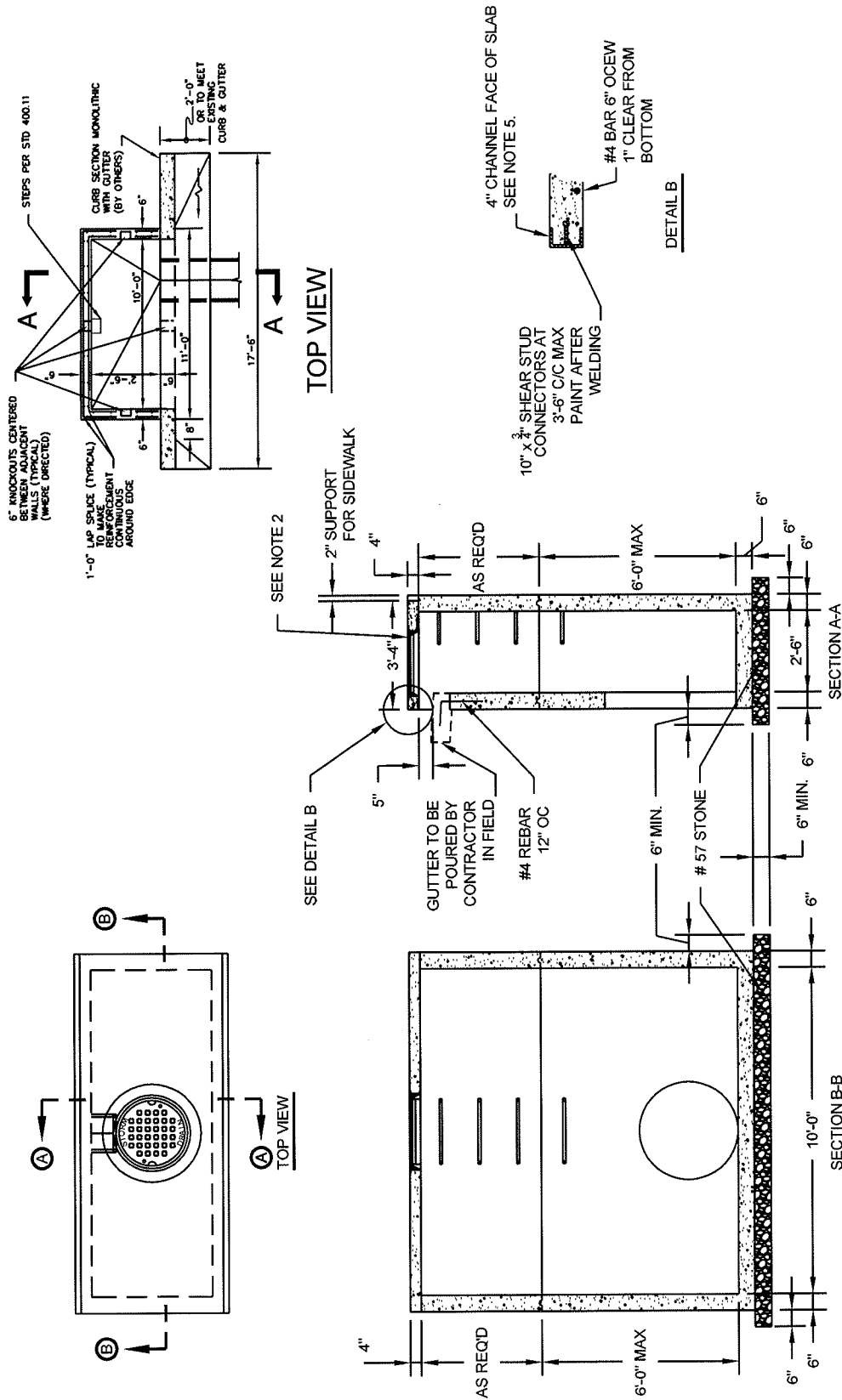
REVISION 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
Amanda Pollack
DEPUTY DIRECTOR

SIDEWALK FRAME & COVER
TYPE "A-1" & "B-1" INLETS

DATE	7/27/98
SCALE	NONE
DWG. NO.	STD50046
STD. NO.	500.46



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 3/4" 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)

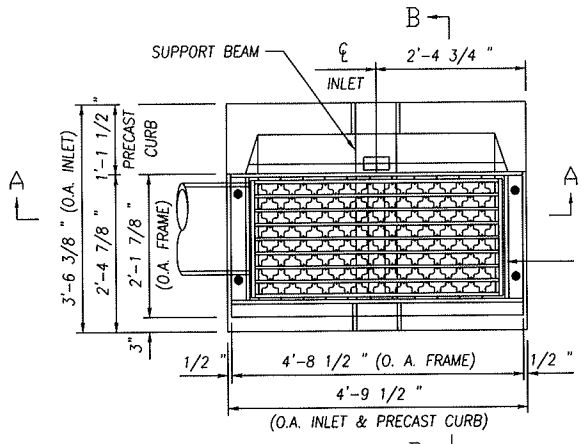
REVISION 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED
1/1/14
Amanda Pollack
DEPUTY DIRECTOR

TYPE "B-1" INLET

DATE	1/27/10
SCALE	NONE
DWG. NO.	STD500.48
STD. NO.	500.48



INLET TYPE	DIMENSIONS	
	A	B
NR OPEN THROAT	3'-9 1/2"	2'-6 3/8"
NR CLOSED THROAT	3'-9 1/2"	1'-10 3/8"

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

5/8" Ø ANCHOR BOLT,
4 PER FRAME

LADDER RUNGS
PER SPW
STANDARD DETAIL

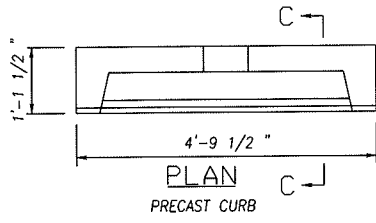
INVERT TO BE CONCRETE
SLOPE 2" PER FOOT TOWARD
OUTLET OR AS DIRECTED.
(TO BE PROVIDED IN FIELD)

PLAN

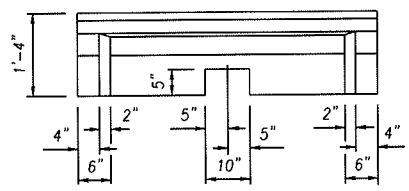
SECTION A-A

STANDARD NR FRAME & GRATE
PER SPW STANDARD DETAIL

LAP SPLICE TO MAKE REINFORCING
CONTINUOUS AROUND OUTSIDE CORNER.



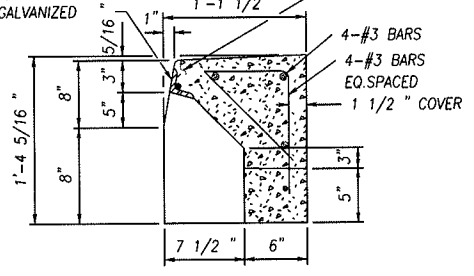
PLAN
PRECAST CURB



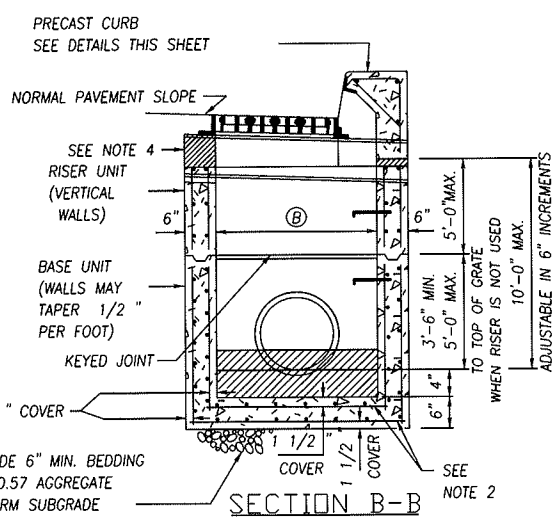
FRONT ELEVATION
(PRECAST CURB)

2 1/2 "x2 1/2 "x 1/2 " L,
4'-9 1/2 " LONG. GALVANIZED

#3 ANCHOR BARS
WELDED TO L @
18" C/C.



SECTION C-C



SECTION B-B

PROVIDE 6" MIN. BEDDING
OF NO.57 AGGREGATE
ON FIRM SUBGRADE

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

REVISION 01/01/14

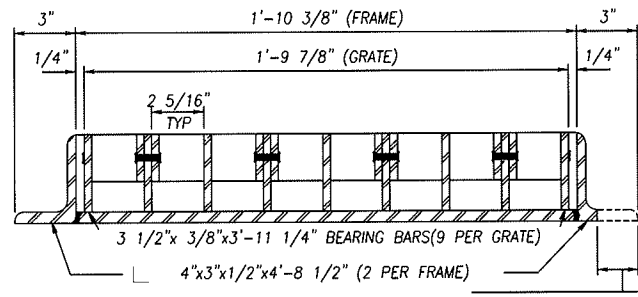
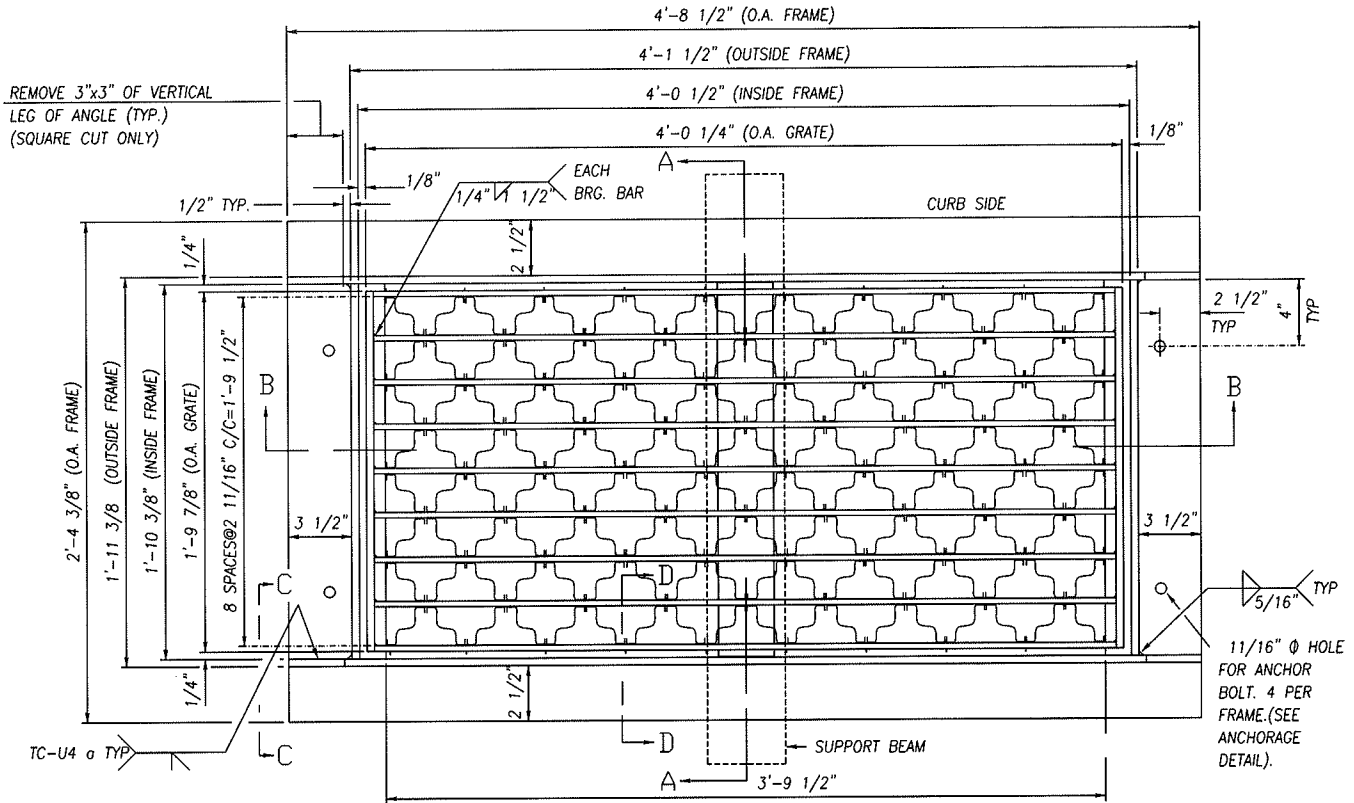
CITY OF SALISBURY
SALISBURY, MD

APPROVED
11/1/14
Amanda Pollack
DEPUTY DIRECTOR

DATE

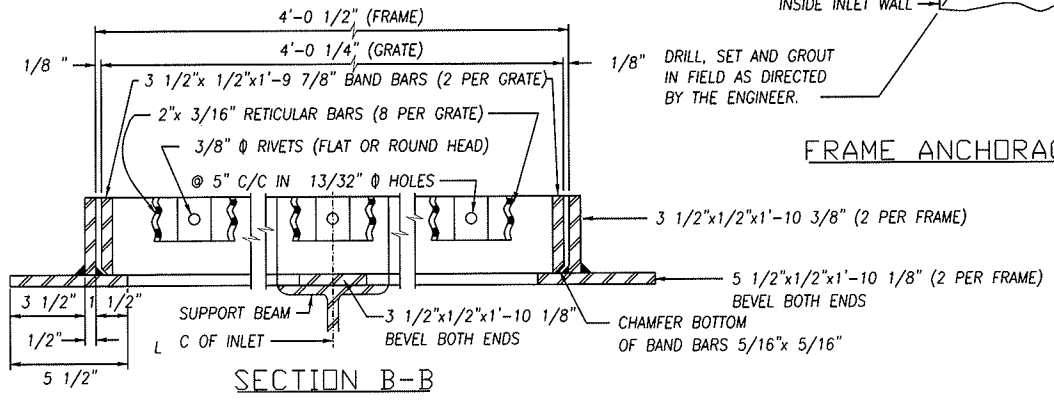
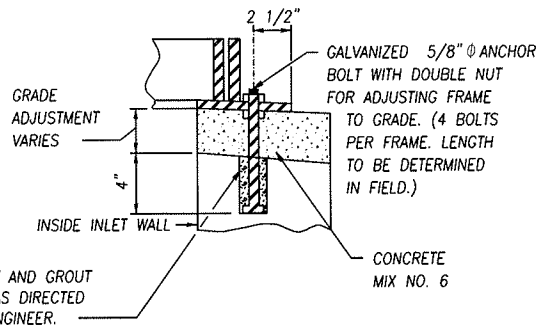
PRECAST NR INLET
OPEN AND CLOSED THROAT

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.



REVISION 01/01/14

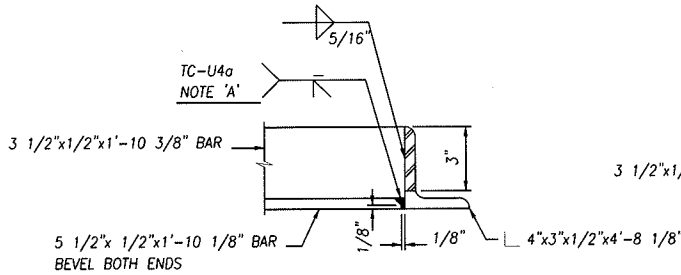
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SALISBURY, MD

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11/1/14
Amanda Pellack
DEPUTY DIRECTOR

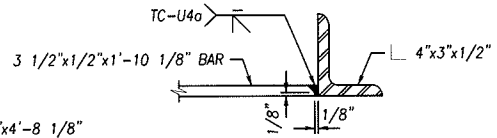
**STANDARD NR INLET
FRAME & GRATE**

DATE	2/19/10
SCALE	N.T.S.
DWG. NO.	STD500.53
STD. NO.	500.53

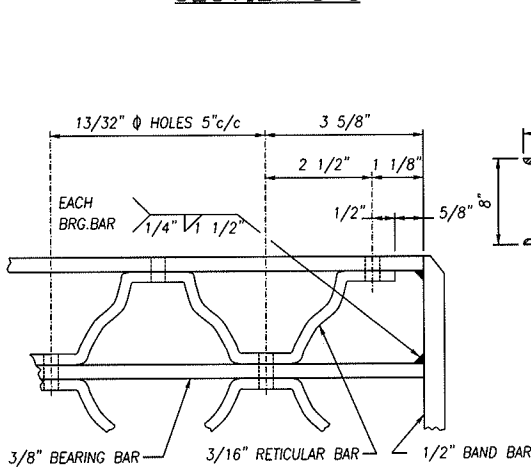
NOTE 'A' - WELD 5 1/2"x1/2" BAR TO 4"x3"x1/2" L
BEFORE WELDING 3 1/2"x1/2" BAR



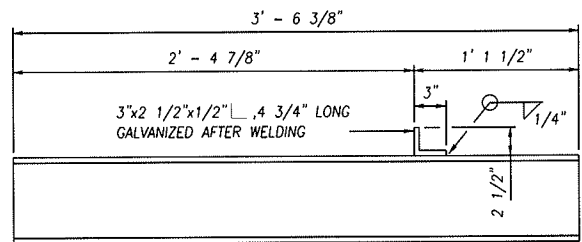
SECTION C-C



SECTION D-D
(GRATE NOT SHOWN)



GRATING DETAIL



SUPPORT BEAM
W8x31 (GALVANIZED)

REVISION 01/01/14

CITY OF
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SALISBURY, MD

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1/1/14
Amanda Pollack
DEPUTY DIRECTOR

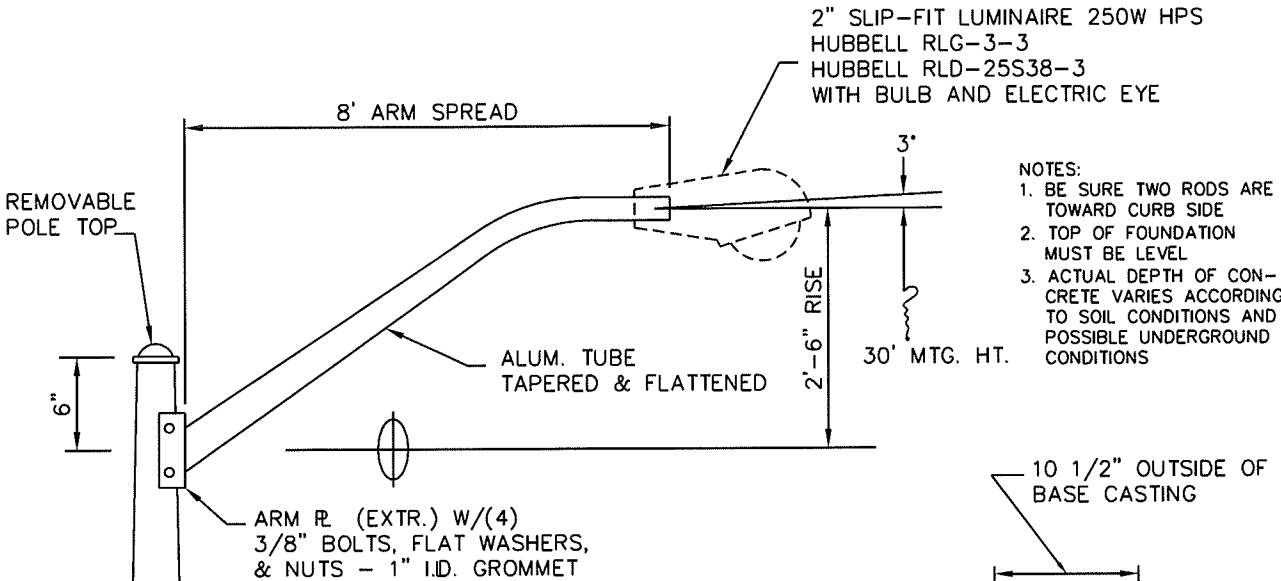
STANDARD NR INLET FRAME, GRATE
AND SUPPORT BEAM DETAILS

DATE 2/19/10

SCALE N.T.S.

DWG. NO. STD50054

STD. NO. 500.54



- 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

ARM R. (EXTR.) W/(4)
3/8" BOLTS, FLAT WASHERS,
& NUTS - 1" I.D. GROMMET

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.

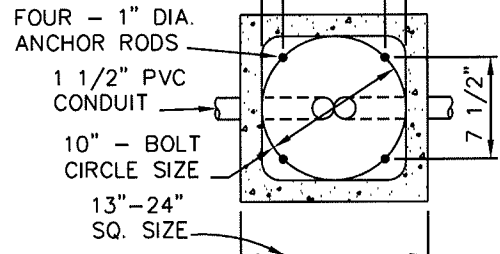
NOTE
POLE TO BE MANUFACTURED BY UNION METAL MANUFACTURING CO., CANTON, OH. OR HAPCO 21-647 30' POLE W/8' ARM

NOTE
OPTIONAL GALV. METAL SCREW-IN BASE, A.B. CHANCE CO. #C1124NG4VP OR APPROVED SUBSTITUTE

4" X 8" HANDHOLE W/REINF. FRAME & COVER 1/2"-13NCR TAP FOR GRD. CONN.

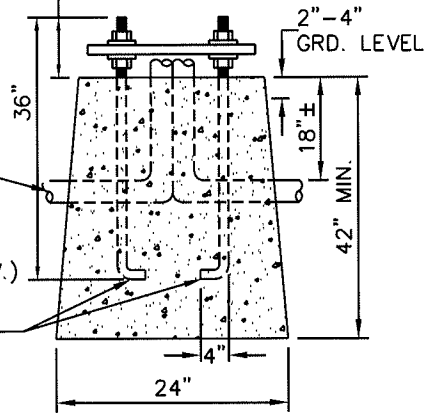
CAST ALUM. BASE W/BOLT COVERS

(2) 1/16" SHIMS PER POLE



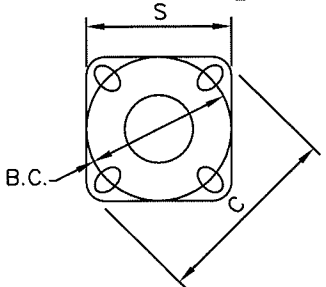
CURB SIDE

4" - DISTANCE RODS MUST PROJECT ABOVE CONCRETE



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

GALV. METAL SCREW-IN BASE AB CHANIE CO. #C1124NG4VP OR APPROVED SUBSTITUTE



POLE SIZE	BOLT CIRCLE		C	S
	TEMP.	RANGE		
7" DIA.	10"	10"-11"	13 5/8"	10 1/2"

POLE SIZE	NO. ARMS	CATALOG NO.	ARM SPRD.	MTG. HT.
.188W.S7.0X4.5X28'-0"	1	4D704D-289-CBD	8'	30'

REVISED: 01/01/14

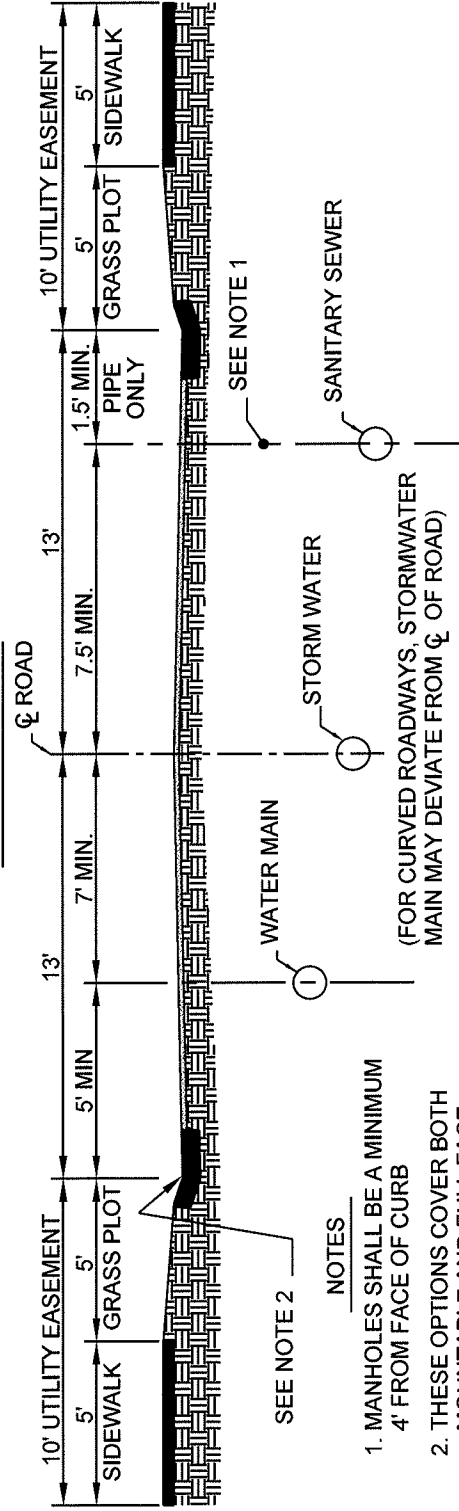
CITY OF SALISBURY
SALISBURY, MD

APPROVED
1/1/14
Amanda Pollack
DATE
CITY ENGINEER

LIGHTING POLE & FOUNDATION

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

OPTION A



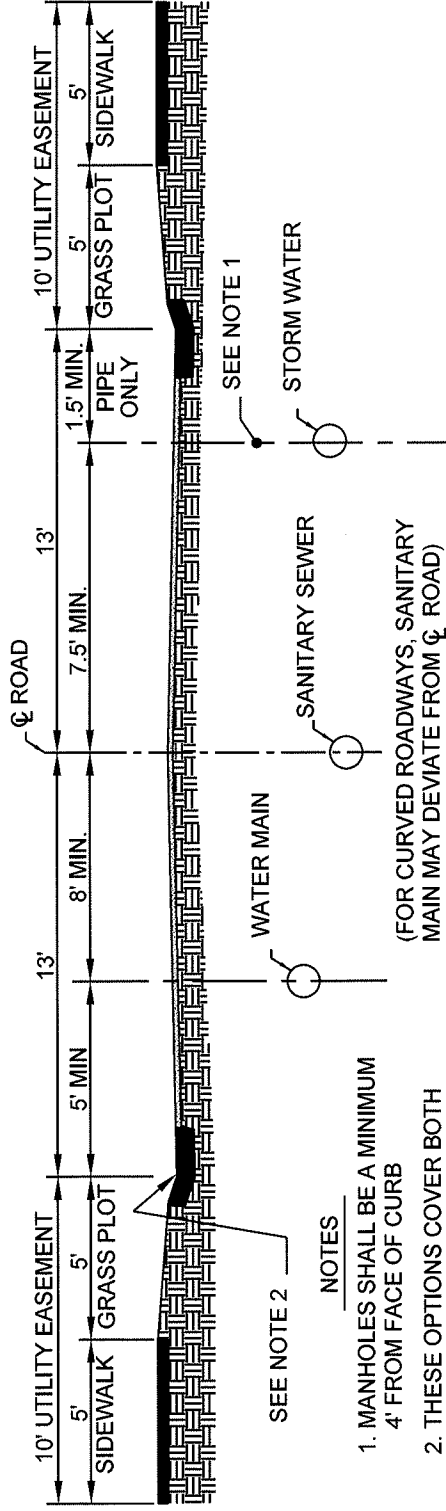
SEE NOTE 2

NOTES

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

(FOR CURVED ROADWAYS, STORMWATER MAIN MAY DEVIATE FROM C OF ROAD)

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.

(FOR CURVED ROADWAYS, SANITARY MAIN MAY DEVIATE FROM C OF ROAD)

REVISED: 01/01/14

CITY OF SALISBURY
SALISBURY, MD

APPROVED

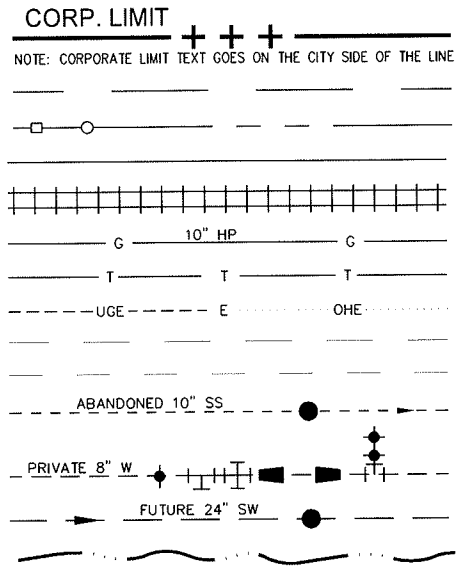
1/1/14 DATE
Amanda Pollock
CITY ENGINEER

SAMPLE UTILITY SEPARATION
TYPICAL 26' LOCAL STREET

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

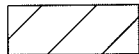
MISCELLANEOUS

- 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)



HATCH PATTERNS

SPW Utilities
ANSI31 HATCH
2 (X) SCALE



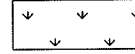
DRAINAGE ESMTS.
NET HATCH
2 (X) SCALE



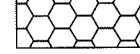
PRIVATE ESMTS.
DOTS HATCH
.5 (X) SCALE



SWM
GRASS HATCH
2 (X) SCALE

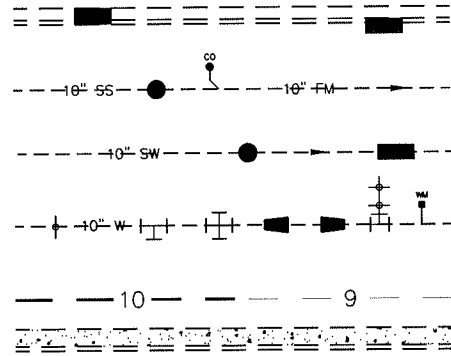


FOREST CONSERVATION
HONEY HATCH
.75 (X) SCALE



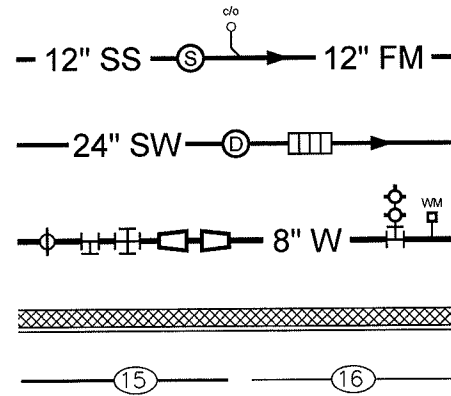
EXISTING WORK

- 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)



REVISED: 01/01/14

CITY OF
SALISBURY
SALISBURY, MD

APPROVED

1/1/14
DATE
Amanda Pollack
DEPUTY DIRECTOR

**CAD STANDARDS
FOR CONTRACT DRAWINGS**

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