

**Dorchen/Martin Associates, Inc.**  
Architects/Planners

29895 Greenfield Road Suite 107  
Southfield, Michigan 48076  
248.557.1062  
Fax: 248.557.1231  
www.dorchenmartin.com

June 29, 2017

PROJECT: **City of Sterling Heights – Dodge Park Improvements**  
Sterling Heights, MI

DMA PROJECT NO: **16078A**

ADDENDUM NO: **1**

ADDENDUM CONTENTS: **Three (3) written pages.**  
**Four (4) Architectural Sheets (T001, T002, AMP-A1.4 and AMP-A7.0)**  
**Seven (7) City of Sterling Heights Engineering Standard Detail Sheets for Civil Work**  
**000115 List of Drawings Specification Section (4 Pages)**  
**004113 Bid Proposal Form (11 Pages)**

ISSUE DATE: **June 29, 2017**

The following clarifications, revisions and/or additions to the Plans and Specifications are issued before the award of the construction contract and are to be included with the original Drawings and Specifications. This addendum shall take precedence over the original issued Drawings and Specifications and shall be referred to hereinafter as part of the Contract Documents.

**The bidder shall acknowledge the receipt of this Addendum by signing this Addendum and enclosing it in the submission of their bids, and completing the Addenda section of the 004113 Bid Proposal Form.** Failure to acknowledge Addendum No. 1 on page 2 of 11 of the 004113 Bid Proposal Form in the submission of bids may be justification for the bid proposal being rejected as non-responsive.

**RESPONSE:**

The Contractors/Bidders shall verify receipt and inclusion of this Addendum on their Bid Proposal Forms.

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**DRAWING/SPECIFICATION REVISIONS, CLARIFICATIONS OR ADDITIONS:**

**Architectural Drawing Revisions:**

1. Sheet T001: Updated Addendum #1 issuance date on title block.
2. Revised sheet T002 to indicate sheets AMP-A1.4 and AMP-A7.0 have been included in Addendum #1.
3. Revised sheet index layout on sheet T002 to accommodate and indicate various issuances of drawings.
4. Revised sheet T002 to indicate the correct sheet numbers and sheet descriptions for sheets AMP-A7.0 and AMP-A7.1. The Bids set issued 6-19-17 included Sheet AMP-A7.1 Room Schedule and Door Schedule, but the sheet descriptions and sheet numbers for Sheet AMP-A7.0 and Sheet AMP-A7.1 were incorrectly described on the sheet index for the Bids set.

**Civil Engineering Drawing Revisions:**

1. City of Sterling Heights Standard Details Soil Erosion sheet 1 of 1 has been added to the set and included on the sheet index (T002) .
2. City of Sterling Heights Standard Details Notes sheet 1 of 7 has been added to the set and included on the sheet index (T002).
3. City of Sterling Heights Standard Details Sanitary sheet 2 of 7 has been added to the set and included on the sheet index (T002).
4. City of Sterling Heights Standard Details Storm sheet 4 of 7 has been added to the set and included on the sheet index (T002)..
5. City of Sterling Heights Standard Details Storm sheet 5 of 7 has been added to the set and included on the sheet index (T002)..
6. City of Sterling Heights Standard Details Watermain sheet 6 o 7 has been added to the set and included on the sheet index (T002)..
7. City of Sterling Heights Standard Details Watermain sheet 7 of 7 has been added to the set and included on the sheet index (T002)..

**Specification Revisions:**

1. Modified the 000115 List of Drawings section to include the following Civil Engineering Sheets: City of Sterling Heights Standard Details Soil Erosion sheet 1 of 1, City of Sterling Heights Standard Details Notes sheet 1 of 7, City of Sterling Heights Standard Details Sanitary sheet 2 of 7, City of Sterling Heights Standard Details Storm sheet 4 of 7, City of Sterling Heights Standard Details Storm sheet 5 of 7, City of Sterling Heights Standard Details Watermain sheet 6 of 7, City

- of Sterling Heights Standard Details Watermain sheet 7 of 7. These items have been **bolded** on the Index of Drawings.
2. Modified the 000115 List of Drawings section to indicate the correct sheet numbers and sheet descriptions for sheets AMP-A7.0 and AMP-A7.1. These items have been **bolded** on the Index of Drawings.

**Contract Provisions:**

1. Page 2 of 11 of the 004113 Bid Proposal Form was revised to acknowledge this Addendum and an additional page was added to the 004113 Bid Proposal Form due to space limitations.

**RECEIVED AND ACKNOWLEDGED BY:**

Company: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



# STERLING HEIGHTS PARKS & RECREATION

## CITY OF Sterling Heights DODGE PARK IMPROVEMENTS

MICHAEL C. TAYLOR

MAYOR

BARBARA A. ZIARKO

MAYOR PRO-TEM

DEANNA KOSKI

GARY LUSK

MARIA G. SCHMIDT

NATE SHANNON

LIZ SIERAWSKI

CITY COUNCIL

MARK D. VANDERPOOL

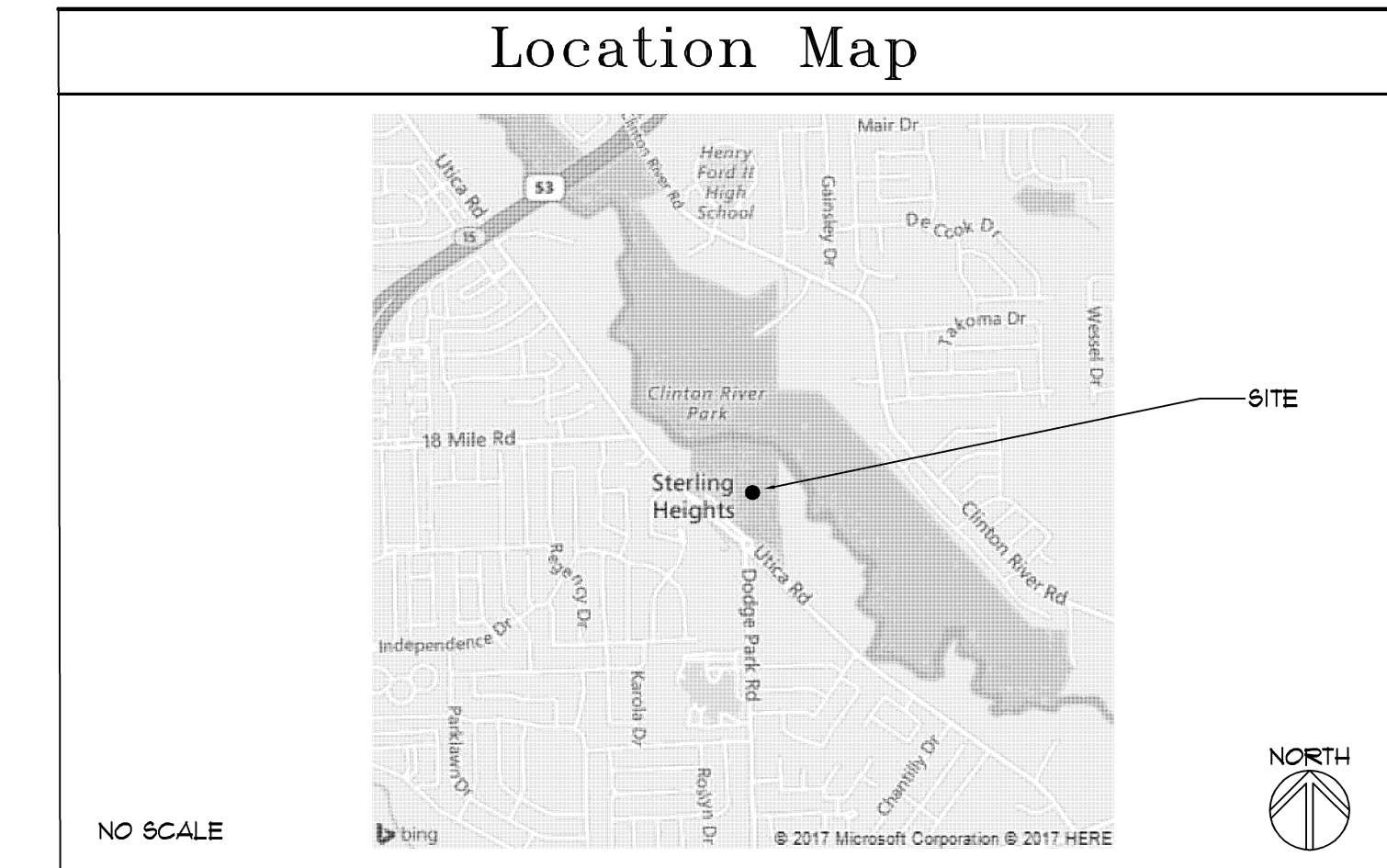
CITY MANAGER

DENICE GERSTENBERG

CITY DEVELOPMENT DIRECTOR

KYLE LANGLOIS

PARKS AND RECREATION DIRECTOR



### Construction Notes

- 1) THE CONTRACTOR SHALL NOTIFY THE CITY OF STERLING HEIGHTS ENGINEERING DEPARTMENT, AT (800) 446-2580, 48 HOURS PRIOR TO THE START OF CONSTRUCTION OF PUBLIC UTILITIES OR OF CONSTRUCTION WITHIN CITY RIGHTS-OF-WAY.
- 2) ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF STERLING HEIGHTS WHICH ARE INCLUDED AS PART OF THESE PLANS.
- 3) AFTER THE COMPLETION OF CONSTRUCTION OF PUBLIC UTILITIES OR CONSTRUCTION WITHIN CITY RIGHTS-OF-WAY, THE CONTRACTOR MUST REQUEST A FINAL INSPECTION. ANY PUNCHLIST ITEMS RESULTING FROM THE FINAL INSPECTION MUST BE RESOLVED PRIOR TO FINAL RELEASE AND ACCEPTANCE.
- 4) THE EXISTING UTILITIES INDICATED ON THIS PLAN ARE IN ACCORDANCE WITH AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S OBLIGATION TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES THAT MIGHT AFFECT THIS JOB.
- 5) THE CONTRACTOR SHALL NOTIFY 'MISS DIG' AT 1-800-MISS-DIG OR 1-800-482-1111, AT LEAST 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 6) THE CONTRACTOR SHALL AT ALL TIMES BE AWARE OF INCONVENIENCE CAUSED TO THE ADJUTING PROPERTY OWNERS AND GENERAL PUBLIC. WHERE UNDUPLICATE INCONVENIENCES ARE NOT REMEDIED, BY THE CONTRACTOR, THE CITY, UPON FOUR HOURS NOTICE, RESERVES THE RIGHT TO PERFORM THE NECESSARY WORK AND DEDUCT THE COST THEREFORE FROM THE MONEY DUE THE CONTRACTOR.
- 6) DURING CONSTRUCTION THE CONTRACTOR SHALL PROVIDE WATCHMEN AND FLAGMEN AS MAY BE REQUIRED FOR THE SAFETY AND CONVENIENCE OF THE PUBLIC AND SHALL FURNISH BARRICADES, SIGNS, AND LIGHTS NECESSARY TO PROTECT THE PUBLIC. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE AUTHORIZED BY THE CITY OF STERLING HEIGHTS. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 1994 EDITION BY THE MICHIGAN DEPARTMENT OF STATE HIGHWAYS.
- 7) IN CASES WHERE DETOUR ROADS ARE NECESSARY, TRAFFIC SHALL BE ROUTED OVER ROADS AS DIRECTED BY THE CITY OF STERLING HEIGHTS. IN ALL CASES, THE DETOUR ROADS SHALL BE MAINTAINED WITH DUST CONTROL AND GRADING AS REQUIRED BY THE ENGINEER.
- 8) EXISTING ROADS USED AS HAUL ROUTES SHALL BE APPROVED BY THE CITY OF STERLING HEIGHTS AND THE CONTRACTOR SHALL MAINTAIN THEM WITH GRADING AND DUST CONTROL AS REQUIRED BY THE ENGINEER.
- 9) THE CONTRACTOR IS TO PROVIDE ADEQUATE DUST CONTROL WHEN SUCH A PROBLEM HAS BEEN CAUSED BY HIS CONSTRUCTION OPERATIONS. DUST CONTROL METHODS MUST MEET APPROVAL OF THE CITY.
- 10) ALL PROPERTY IRONS AND MONUMENTS DISTURBED, OR DESTROYED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR PROVIDED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.
- 11) CONTRACTOR SHALL PROVIDE OWNER AND ENGINEER A COPY OF WRITTEN PERMISSION TO USE PRIVATE PROPERTY FOR STORAGE OF EQUIPMENT AND MATERIALS OR FOR HIS CONSTRUCTION OPERATIONS.
- 12) DRIVEWAYS, CULVERTS, DITCHES, DRAIN TILE, TILE FIELDS, DRAINAGE STRUCTURES, ETC., THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE IMMEDIATELY RESTORED.
- 13) ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESEEDDED WITH MATCHING SOD OR MARION BLUE SOD. ALL OTHER AREAS SHALL BE SEEDED AND MULCHED. SEEDING AND MULCHING SHALL BE DONE IN ACCORDANCE WITH GENERAL SPECIFICATIONS. SEEDING SHALL INCLUDE 4" OF TOPSOIL FOR BOTH FIELD SEEDING AND LAWN SEEDING. PAY ITEM FOR SEEDING INCLUDES A SATISFACTORY GROWTH OF SEED. IF FOR WHATEVER REASON, THE SEED DOES NOT "CATCH" THE FIRST TIME, THEN THE CONTRACTOR IS OBLIGATED TO COME BACK AND RESEED THE AREA AT NO ADDITIONAL COST UNTIL PERMANENT GROWTH IS ESTABLISHED.
- 14) ALL UTILITY POLES IN CLOSE PROXIMITY TO CONSTRUCTION SHALL BE SUPPORTED IN A MANNER SATISFACTORY TO THE UTILITY OWNER.
- 15) DRIVE CULVERTS WHICH ARE REMOVED OR DESTROYED BY THE CONTRACTOR'S OPERATIONS, SHALL BE REPLACED WITH A MINIMUM OF 24 FEET OF 12-INCH CORRUGATED METAL PIPE WITH END SECTIONS. THE EXISTING CULVERT MAY BE REUSED IF IT MEETS CITY STANDARDS.

### ARCHITECT:

DORCHEN/MARTIN ASSOCIATES, INC.  
29895 GREENFIELD ROAD SUITE 107  
SOUTHFIELD, MICHIGAN 48076  
PH 248.557.1062  
FAX 248.557.1231

### CIVIL ENGINEERS:

NOWAK & FRAUS  
1310 N. STEPHENSON HWY.  
ROYAL OAK, MICHIGAN 48067  
PH 248.399.0886  
FAX 248.399.0805

### LANDSCAPE ARCHITECT:

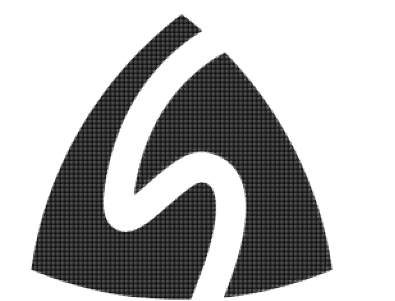
FELINO PASCUAL & ASSOCIATES  
24333 ORCHARD LAKE RD., SUITE G  
FARMINGTON HILLS, MICHIGAN 48336  
PH 248.557.5588  
FAX 248.557.5416

### MEP ENGINEERS:

STRATEGIC ENERGY SOLUTIONS  
4000 WEST 11 MILE ROAD  
BERKLEY, MICHIGAN 48072  
PH 248.399.1900  
FAX 248.399.1901

### STRUCTURAL ENGINEER:

JOHNSTON DESIGN, INC.  
114 WOMPOLE DRIVE  
CLARKSTON, MI 48346  
PH 248.620.6489  
FAX 248.625.9530



### Issue / revision date

3-7-17	Prelim. Review
3-21-17	Prelim. Review
5-9-17	Prelim. Review
5-16-17	Prelim. Review
6-7-17	City Review
6-19-17	Bids
6-29-17	Addendum #1

### drawn by checked by

City of Sterling Heights  
Dodge Park Improvements  
Sterling Heights, Michigan

Cover Sheet  
Construction Notes  
Location Map

project sheet title

Dorchen/Martin Associates, Inc.  
Architects/Planners  
29895 Greenfield Rd., Suite 107  
Southfield, Michigan 48076  
(248) 557-1062  
Fax: (248) 557-1231

### job no. sheet no.

16078A T001

## Project Data

GOVERNING CODES: 2015 MICHIGAN BUILDING CODE  
 2015 MICHIGAN MECHANICAL CODE  
 2015 MICHIGAN PLUMBING CODE  
 2015 INTERNATIONAL FUEL GAS CODE  
 MICHIGAN ELECTRICAL CODE BASED ON 2008 N.E.C. WITH PART 8 STATE AMENDMENTS  
 2003 ICC/ANSI A117.1 FOR ACCESSIBILITY & MICHIGAN BARRIER FREE DESIGN LAW OF PUBLIC ACT 1 OF 1966 AS AMENDED.  
 2015 INTERNATIONAL FIRE CODE

### AMPHITHEATER

USE GROUP: MIXED USE - ASSEMBLY A-1  
 STORAGE S-2

BUILDING CONSTRUCTION TYPE: TYPE II-B NON-COMBUSTIBLE UNPROTECTED

ALLOWABLE BUILDING AREA: BASED ON A-1 = 2,500 SF.

BUILDING AREA: TOTAL AREA = 5,566 SF.  
 ASSEMBLY A-1 = 2,366 SF.  
 BUSINESS = 3,200 SF.

ALLOWABLE BUILDING HEIGHT: BASED ON A-1 = 55 FEET

BUILDING HEIGHT: 30 FEET

OCCUPANCY LOAD: TOTAL AREA = 5,566 SF.  
 ASSEMBLY A-1 = 2,366 SF. / 15 NET = 158 PERSONS  
 BUSINESS = 3,200 SF. / 100 GROSS = 32 PERSONS  
 TOTAL = 190 PERSONS

NUMBER OF EXITS: 2 REQUIRED  
 3 PROVIDED

### FARMERS MARKET

USE GROUP: ASSEMBLY A-3

BUILDING CONSTRUCTION TYPE: TYPE II-B NON-COMBUSTIBLE UNPROTECTED

ALLOWABLE BUILDING AREA: 9,500 SF. + OPEN PERIMETER INCREASE (7,125 SF.) = 16,625 SF.

BUILDING AREA: TOTAL AREA = 13,129 SF.

BUILDING FIRE AREAS: AREA 1 (RESTROOMS, CONCESSIONS, STORAGE) = 1,175 SF.  
 AREA 2 (OPEN FARMERS MARKET / ICE RINK) = 13,129 SF.

ALLOWABLE BUILDING HEIGHT: 65 FEET

BUILDING HEIGHT: 32 FEET

OCCUPANCY LOAD: AREA 1 = 1,175 SF. / 100 GROSS = 12 PERSONS  
 AREA 2 = 13,129 SF. / 50 GROSS = 275 PERSONS  
 TOTAL OCCUPANCY = 287 PERSONS

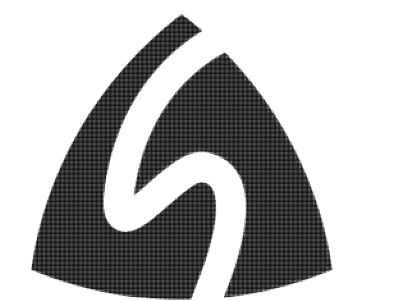
NUMBER OF EXITS: 2 REQUIRED  
 13 PROVIDED

## Sheet Index

Blk	Blks	No.	Description
		T001	Cover Sheet
		T002	Sheet Index/Project Data
		A001	Barrier Free Standards
		A002	General Structural Notes
		M00	Mechanical General Information
		MT1	Mechanical Details
		MT2	Mechanical Details
		E00	Electrical General Information
		E11	Electrical Details
		SF01	Site Plan
		SF02	Keyed Site Notes/Site Amenities
		SF03	Partial Enlarged Site Plan
		SF04	Partial Enlarged Site Plan
		SF05	Partial Enlarged Site Plan - Sand Volleyball Courts, Basketball Court, and Pavilion #4
		SF06	Partial Enlarged Site Plan - Mini Soccer Field and Pavilion #3
		SF07	Partial Enlarged Site Plan - Pavilion #2 and Renovated Restroom Building
		SF08	Partial Enlarged Site Plan - Splash Pad/Park and Pavilion #1
		SF09	Partial Enlarged Site Plan - Farmers Market
		SF10	Partial Enlarged Site Plan - Fire Pit Area and Pavilion #5
		SF11	Partial Enlarged Site Plan - Amphitheater
		SF12	Site Details
		SF13	Site Details - Mini Soccer Field Details
		SF14	Site Details - Sand Volleyball Court Details
		SF15	Site Details - Splash Park Details
			<b>CIVIL</b>
		C-0	Cover Sheet
		C-1	Boundary / Topographic / Tree Survey
		C-2	Boundary / Topographic / Tree Survey
		C-3	Existing Structure Table
		C-4	Demolition Plan
		C-5	Demolition Plan
		C-6	Dimensional Site Plan
		C-7	Dimensional Site Plan
		C-8	Paving & Grading Plan
		C-9	Paving & Grading Plan
		C-10	MDOT M0130a Detail
		C-11	Utility Plan
		C-12	Utility Plan
		C-13	Storm and Sanitary Sewer Profiles
		C-14	Soil Erosion / Sedimentation Control Plan
		C-15	Soil Erosion / Sedimentation Control Plan
		1 of 1	City of Sterling Heights Standard Details Soil Erosion Plan
		1 of 7	City of Sterling Heights Standard Details Notes
		2 of 7	City of Sterling Heights Standard Details Sanitary
		4 of 7	City of Sterling Heights Standard Details Storm
		5 of 7	City of Sterling Heights Standard Details Storm
		6 of 7	City of Sterling Heights Standard Details Watermain
		7 of 7	City of Sterling Heights Standard Details Watermain
			<b>Mechanical - Site</b>
		MD01	Mechanical Site Demolition Plan
		MD02	Mechanical Site Demolition Plan
		M01	Mechanical Site Plan - New Work Plan
		M02	Mechanical Site Plan - New Work Plan
			<b>Electrical - Site</b>
		ED01	Electrical Site Demolition Plan
		ED02	Electrical Site Demolition Plan
		E01	Electrical Site New Work Plan
		E02	Electrical Site New Work Plan
			<b>Landscapes</b>
		LS-1	Overall Landscape Planting View
		LS-2	Landscape Planting Detail
		LS-3	Landscape Planting Detail
		LS-4	Plant Material List, Planting Details, and Landscape Notes
		LS-5	Landscape Planting Detail - Paving Pattern
			<b>Pavilion #1, 4 &amp; 5</b>
		PAV145-A1	Floor Plan, Foundation Plan and Details
			<b>Pavilion #2</b>
		PAV2-A1	Floor Plan, Foundation Plan and Details
		E11	Electrical New Work Plan
			<b>Pavilion #3</b>
		PAV3-A1	Floor Plan, Foundation Plan and Ceiling Plan
		PAV3-A2	Building Elevations
		PAV3-A3	Wall Sections
		PAV3-A4	Interior Elevations
		M12	Mechanical New Work Plans
		E12	Electrical New Work Plan

## Sheet Index

Blk	Blks	No.	Description
			<b>Amphitheater</b>
		AMP-A11	Foundation Plan
		AMP-A12	Floor Plan
		AMP-A13	Reflected Ceiling Plan
		AMP-A14	Roof Plan
		AMP-A15	Roof Framing Plan
		AMP-A16	Roof Framing Plan
		AMP-A31	Building Elevations
		AMP-A32	Building Elevations
		AMP-A41	Building Sections
		AMP-A51	Wall Sections
		AMP-A52	Wall Sections
		AMP-A53	Wall Sections
		AMP-A61	Stair Details
		AMP-A62	Ramp Details
		AMP-A70	Floor Finish Plan
		AMP-A71	Room Schedule and Door Schedule
		M21	Plumbing New Work Plan
		M22	Sheet Metal New Work Plan
		E21	Electrical New Work Plan
			<b>Farmers Market</b>
		FM-A10	Foundation Detail & General Structural Notes
		FM-A11	Foundation Plan
		FM-A12	Floor Plan
		FM-A13	Reflected Ceiling Plan
		FM-A14	Roof Plan
		FM-A21	Enlarged Floor Plan
		FM-A31	Building Elevations
		FM-A32	Building Elevations
		FM-A41	Building Sections
		FM-A51	Wall Sections
		FM-A71	Door Schedule
		FM-A81	Interior Elevations
		M31	Plumbing New Work Plan
		M32	Sheet Metal New Work Plan
		E31	Electrical New Work Plan
			<b>Ticket Booth</b>
		TB-A1	Floor Plan, Foundation Plan, Reflected Ceiling Plan, Roof Plan and Structural Notes
		TB-A2	Building Elevations and Sections
		TB-A3	Wall Sections and Details
		M41	Mechanical New Work Plan (Splash Park)
		M42	Mechanical New Work Plan
		E41	Electrical New Work Plans (Splash Park)
			<b>Renovated Restroom Building</b>
		RRB-D1	Demolition Floor Plan and Demolition Reflected Ceiling Plan
		RRB-D2	Demolition Building Elevations
		RRB-A1	Floor Plan and Reflected Ceiling Plan
		RRB-A2	Door and Finish Schedule
		RRB-A3	Building Elevations
		RRB-A4	Building Sections
		RRB-A5	Wall Sections
		RRB-A6	Interior Elevations
		RRB-A7	Interior Elevations
		MD51	Mechanical - Demolition Plan
		M51	Plumbing New Work Plan
		M52	Sheet Metal New Work Plan
		ED51	Electrical Demolition Plan
		E51	Electrical New Work Plan



Issue / Revision Date	Description
3-7-17	Prelim. Review
3-21-17	Prelim. Review
5-9-17	Prelim. Review
5-16-17	Prelim. Review
6-7-17	City Review
6-19-17	Bids
6-29-17	Addendum #1

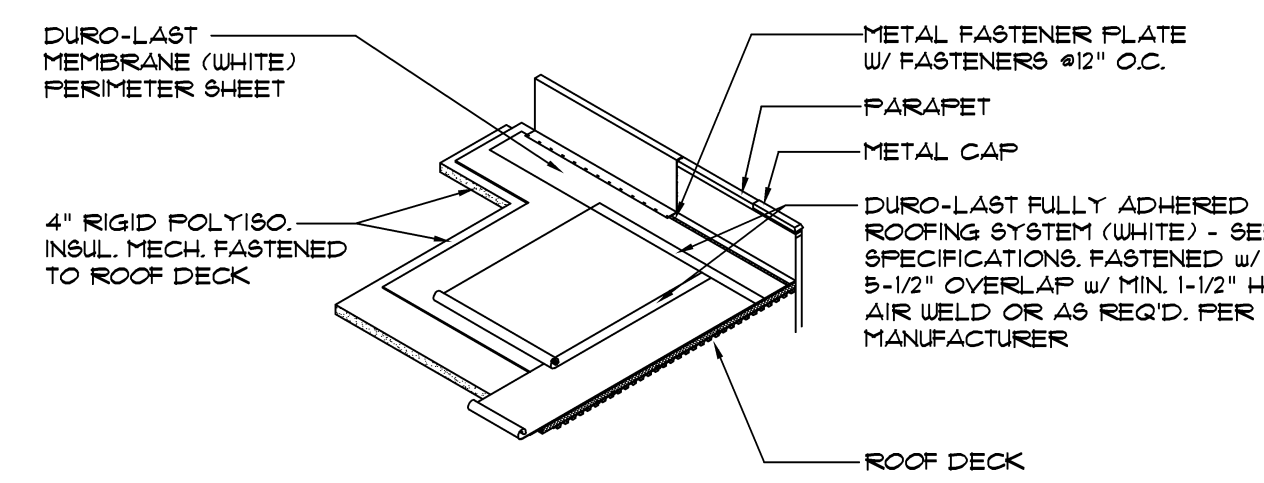
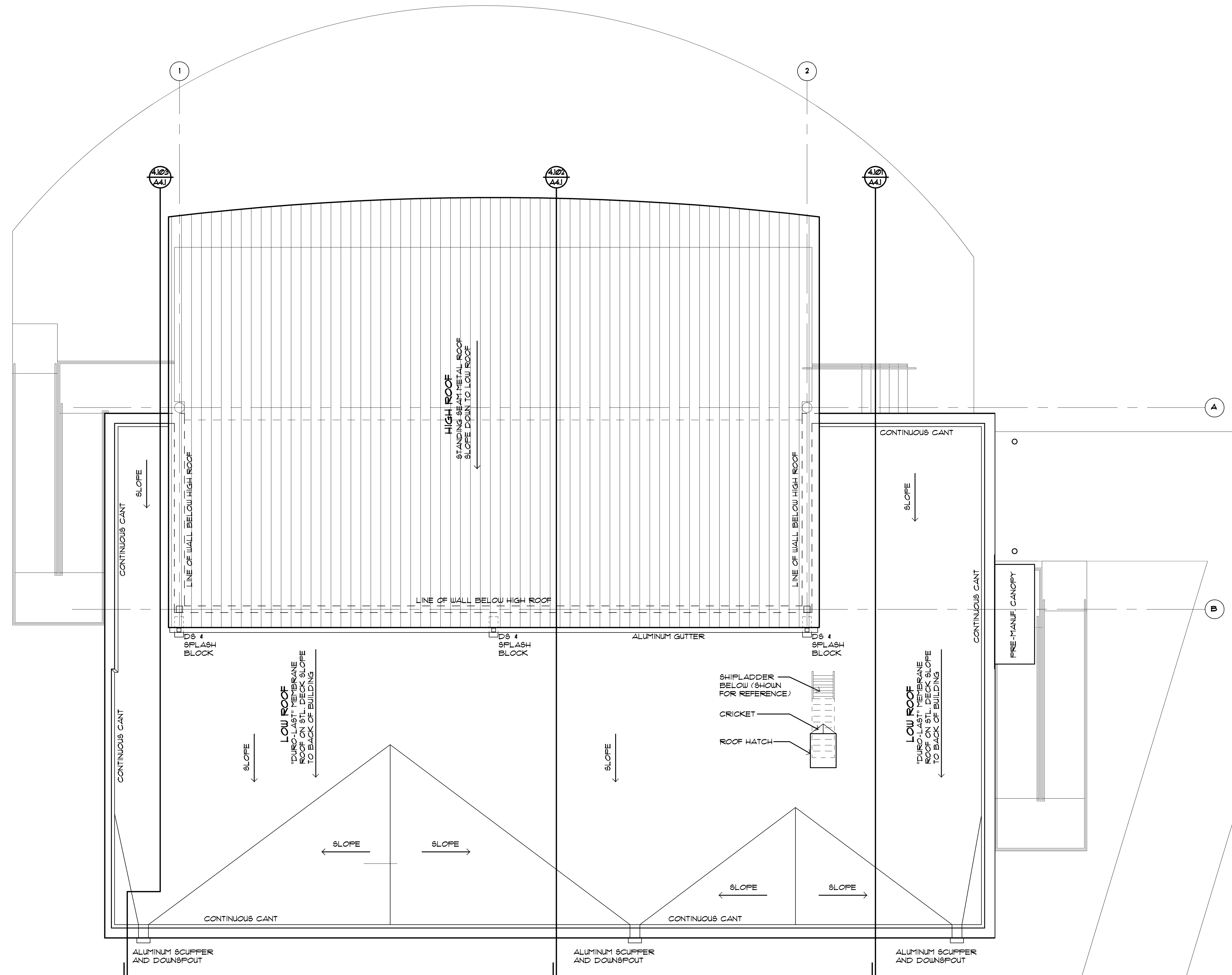
drawn by \_\_\_\_\_ checked by \_\_\_\_\_

City of Sterling Heights  
 Dodge Park Improvements  
 Sterling Heights, Michigan  
 project

Sheet Index  
 Project Data  
 sheet title

**Dorchen/Martin Associates, Inc.**  
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 Fax: (248) 557-1231

job no. 16078A sheet no. T002



1402 Roofing Detail @ Low Roof  
A14 Scale: 3/16" = 1'-0"

1401 Roof Plan  
A14 Scale: 3/16" = 1'-0"

THIS SHEET WAS NOT INCLUDED IN THE BIDS SET ISSUED 6-13-17.



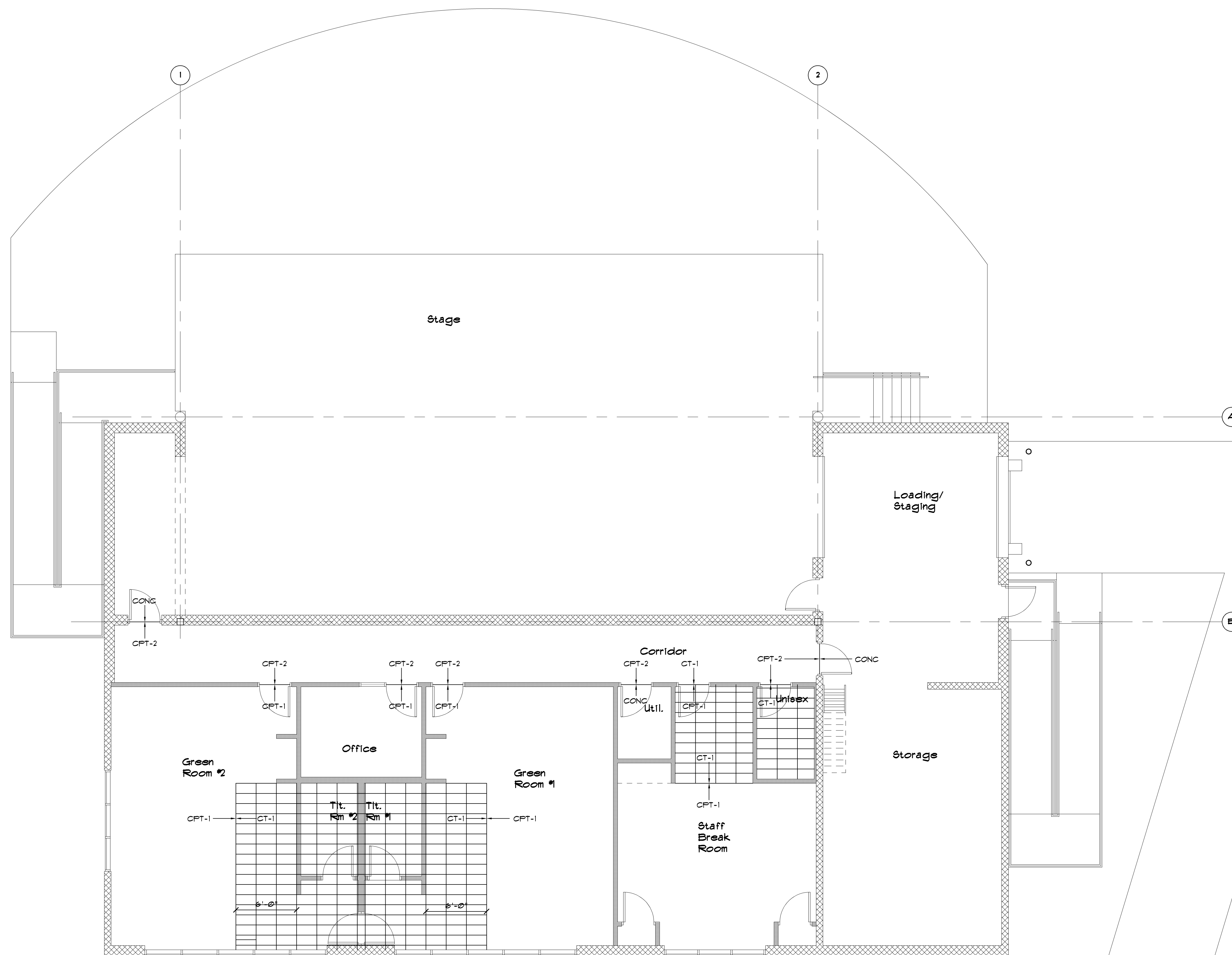
issue / revision date
3-7-17 Prelim. Review
3-21-17 Prelim. Review
5-9-17 Prelim. Review
5-16-17 Prelim. Review
6-7-17 City Review
6-19-17 Bids
6-29-17 Addendum #1

drawn by checked by

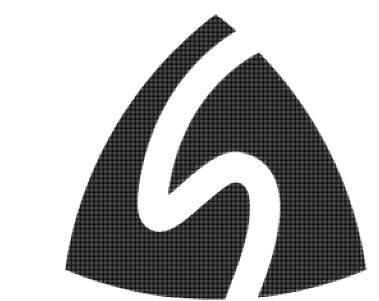
City of Sterling Heights  
Dodge Park Improvements  
Sterling Heights, Michigan  
project  
sheet title  
Amphitheater Roof Plan

Dorchen/Martin Associates, Inc.  
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job no. sheet no.  
16078A AMP-A14



THIS SHEET WAS NOT INCLUDED IN THE BIDS SET ISSUED 6-13-17.



issue / revision date

3-7-17	Prelim. Review
3-21-17	Prelim. Review
5-9-17	Prelim. Review
5-16-17	Prelim. Review
6-7-17	City Review
6-19-17	Bids
6-29-17	Addendum #1

drawn by

checked by

City of Sterling Heights  
Dodge Park Improvements  
Sterling Heights, Michigan  
project

Amphitheater  
Floor Finish Plan  
sheet title

**Dorchen/Martin Associates, Inc.**  
Architects/Planners  
2985 Greenfield Rd., Suite 107  
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Fax: (248) 557-1231

job no.

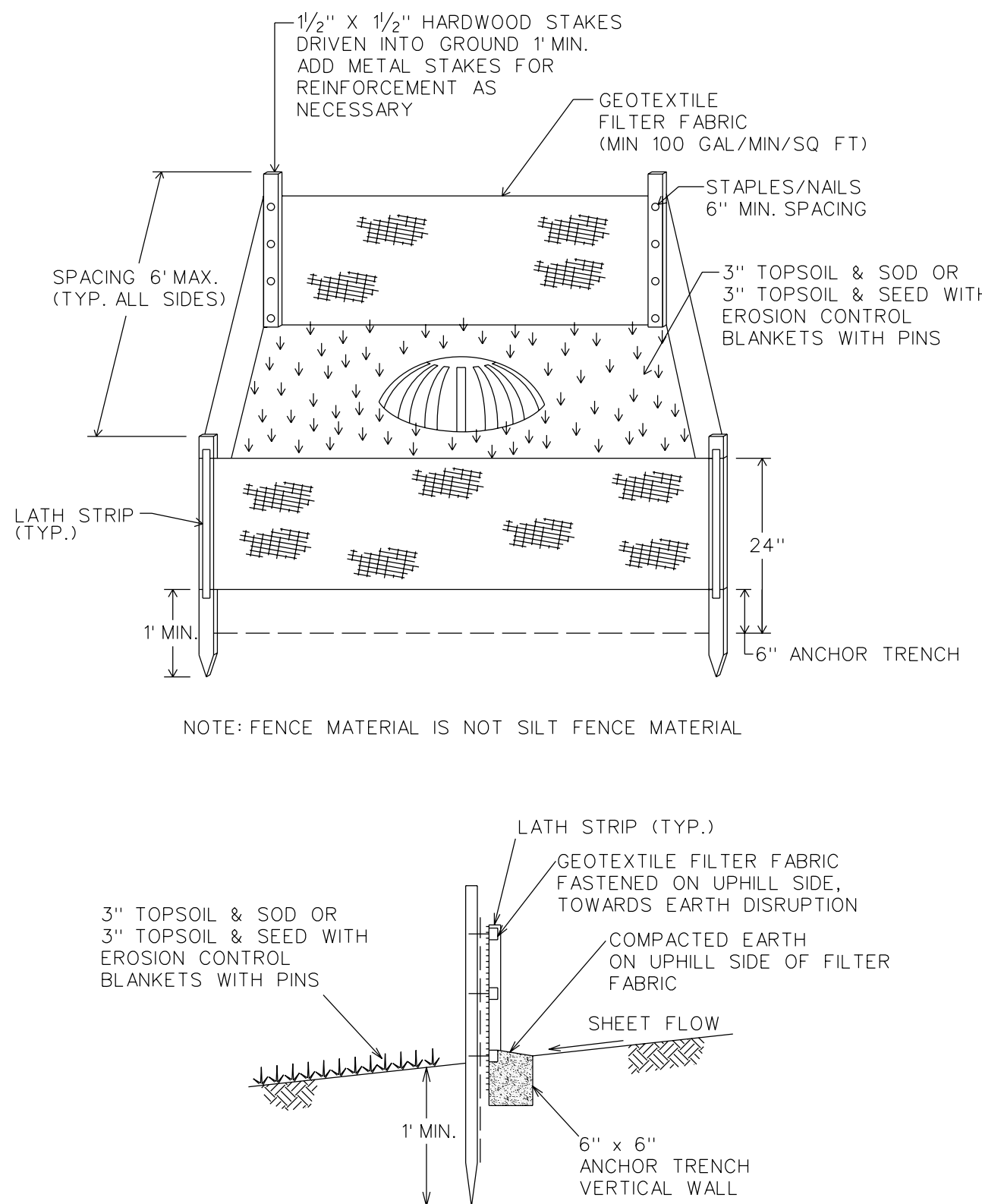
sheet no.

16078A AMP-7.0

1.101 Floor Finish Plan  
ATJ Scale: 3/16 = 1'-0"  
NORTH

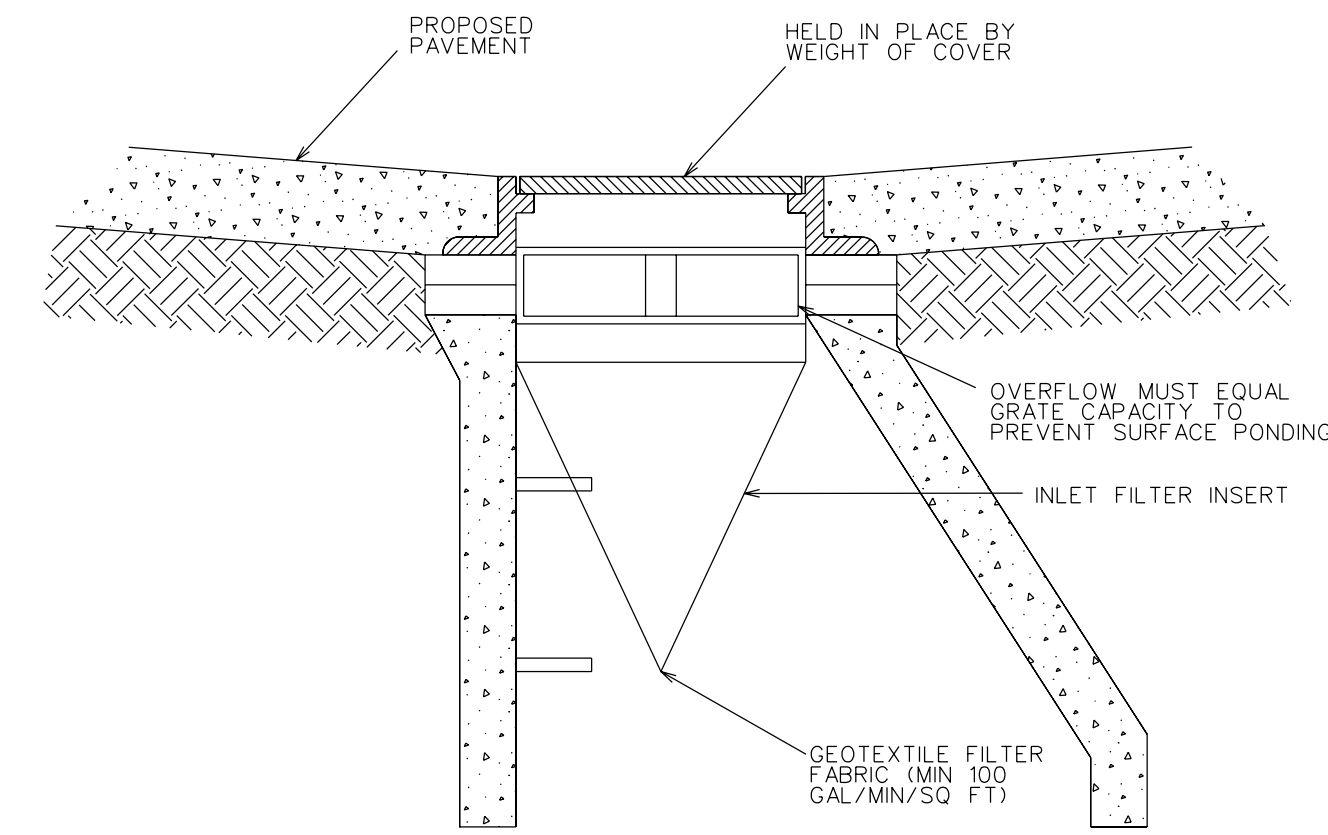


SDSESC001



CITY OF STERLING HEIGHTS STANDARD DETAILS	SOIL EROSION INLET PROTECTION FENCE	DATE: 03/19/08	SAC
		REVISED:	

SDSESC002

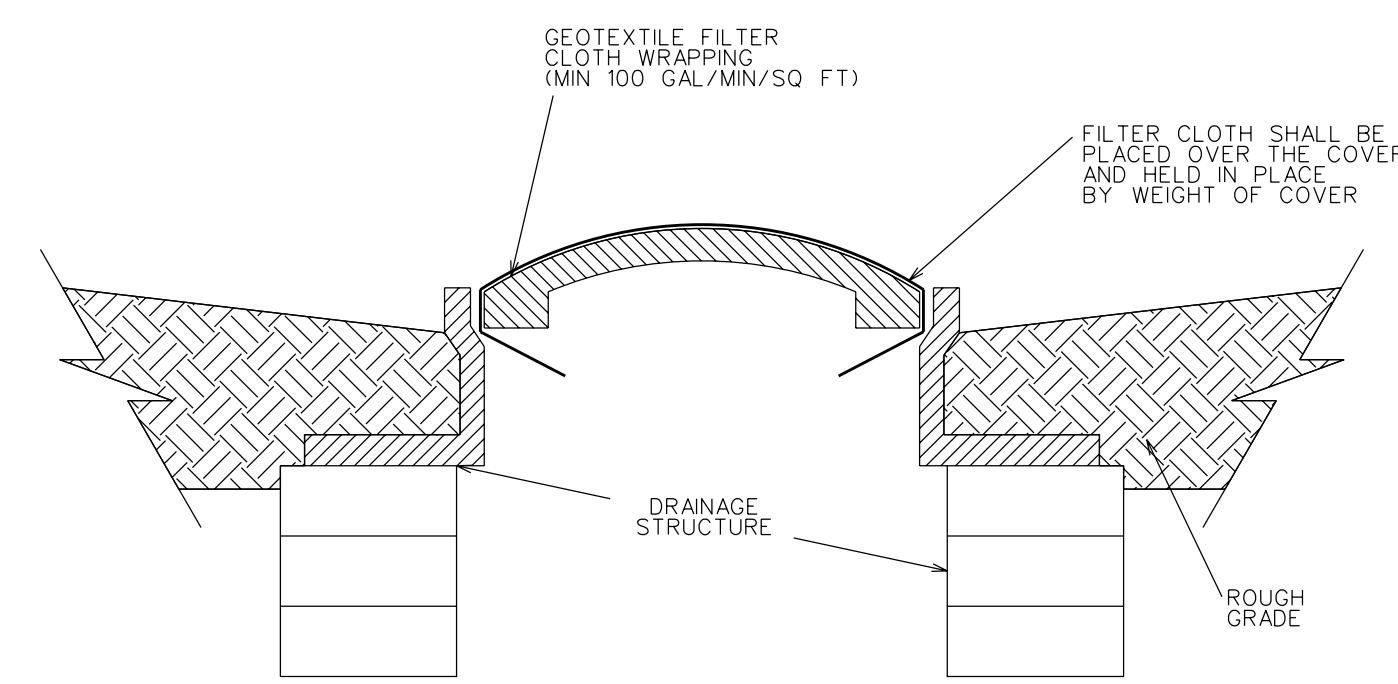


APPROVED PRODUCTS: CATCH-ALL, SILTSACK, ULTRA-URBAN FILTERS, FLOGARD-PLUS, PRODUCTS LISTED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION MATERIALS SOURCE GUIDE, OR AN APPROVED EQUAL.

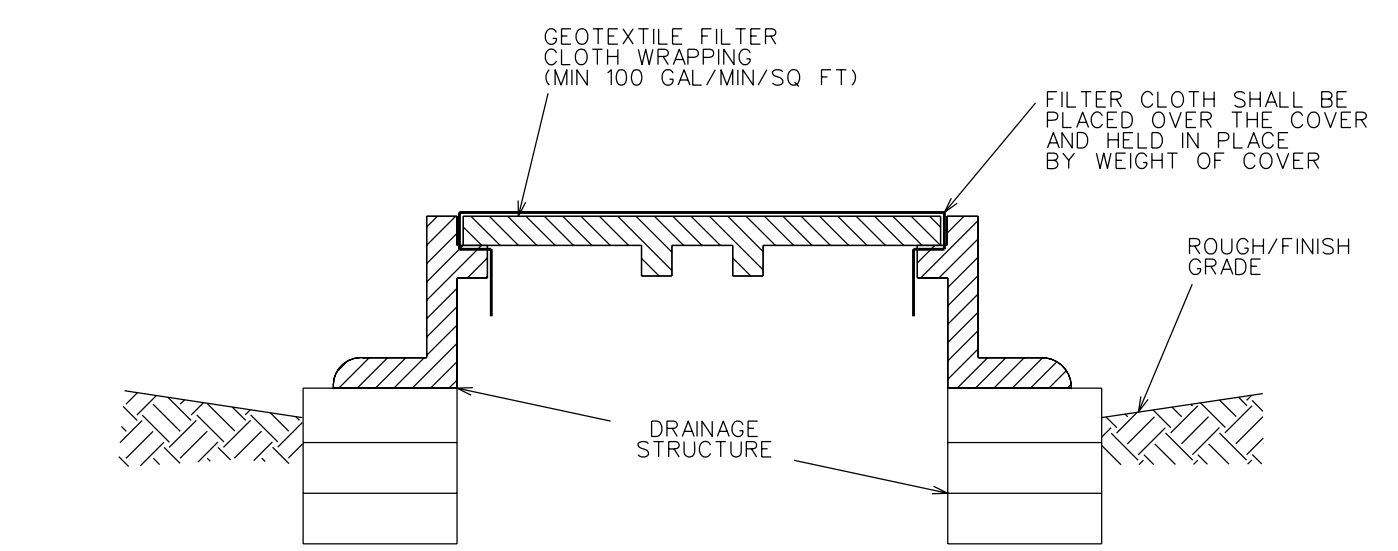
NOTE: ALL APPROVED EQUAL MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION CONSTRUCTION MANUAL AND APPROVED BY THE CITY ENGINEER PRIOR TO USE.

CITY OF STERLING HEIGHTS STANDARD DETAILS	SOIL EROSION CATCH BASIN FILTER BAG	DATE: 02/11/08	RM
		REVISED:	

SDSESC003



REAR YARD CATCH BASIN



PAVEMENT CATCH BASIN

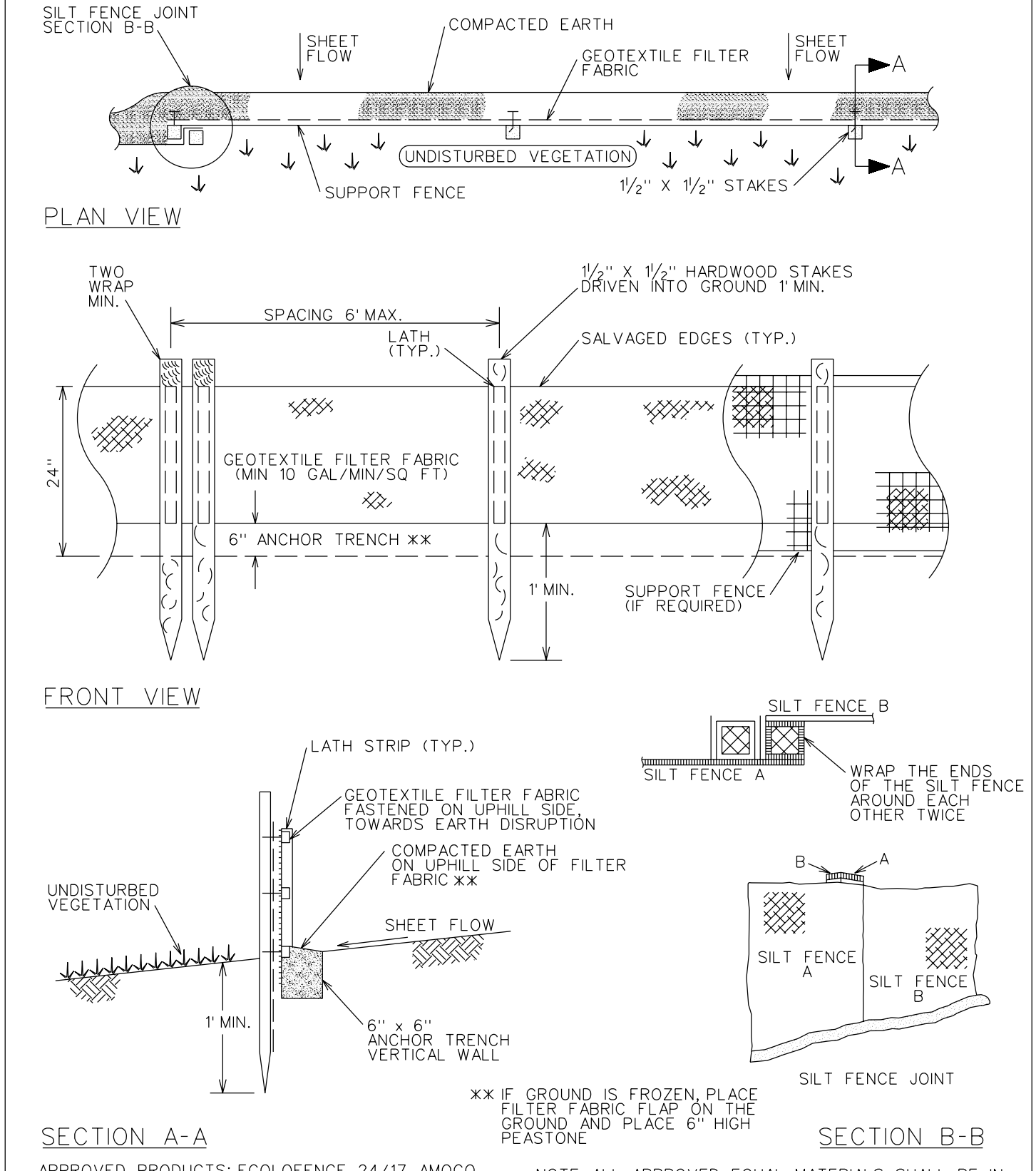
NOTE: EACH GEOTEXTILE INLET FILTER SHALL BE A MIN. 3.5'x3.5'

APPROVED PRODUCTS: SKAPS W106, PRODUCTS LISTED IN THE MICHIGAN DEPARTMENT OF TRANSPORTATION MATERIALS SOURCE GUIDE, OR AN APPROVED EQUAL.

NOTE: ALL APPROVED EQUAL MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION CONSTRUCTION MANUAL AND APPROVED BY THE CITY ENGINEER PRIOR TO USE.

CITY OF STERLING HEIGHTS STANDARD DETAILS	SOIL EROSION GEOTEXTILE INLET FILTER	DATE: 02/11/08	RM
		REVISED:	

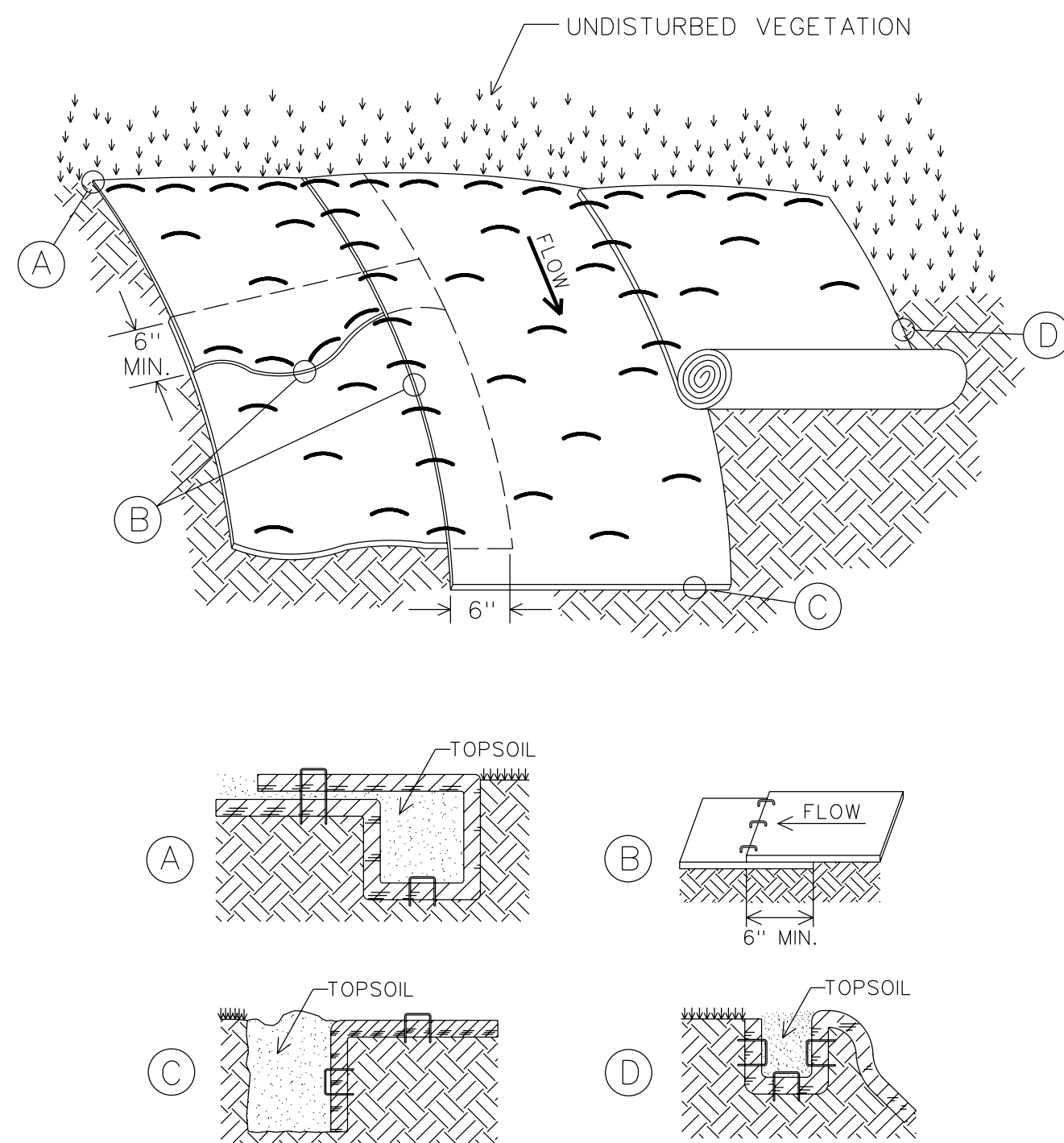
SDSESC004



NOTE: ALL APPROVED EQUAL MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION CONSTRUCTION MANUAL AND APPROVED BY THE CITY ENGINEER PRIOR TO USE.

CITY OF STERLING HEIGHTS STANDARD DETAILS	SOIL EROSION SILT FENCE	DATE: 02/11/08	RM
		REVISED:	

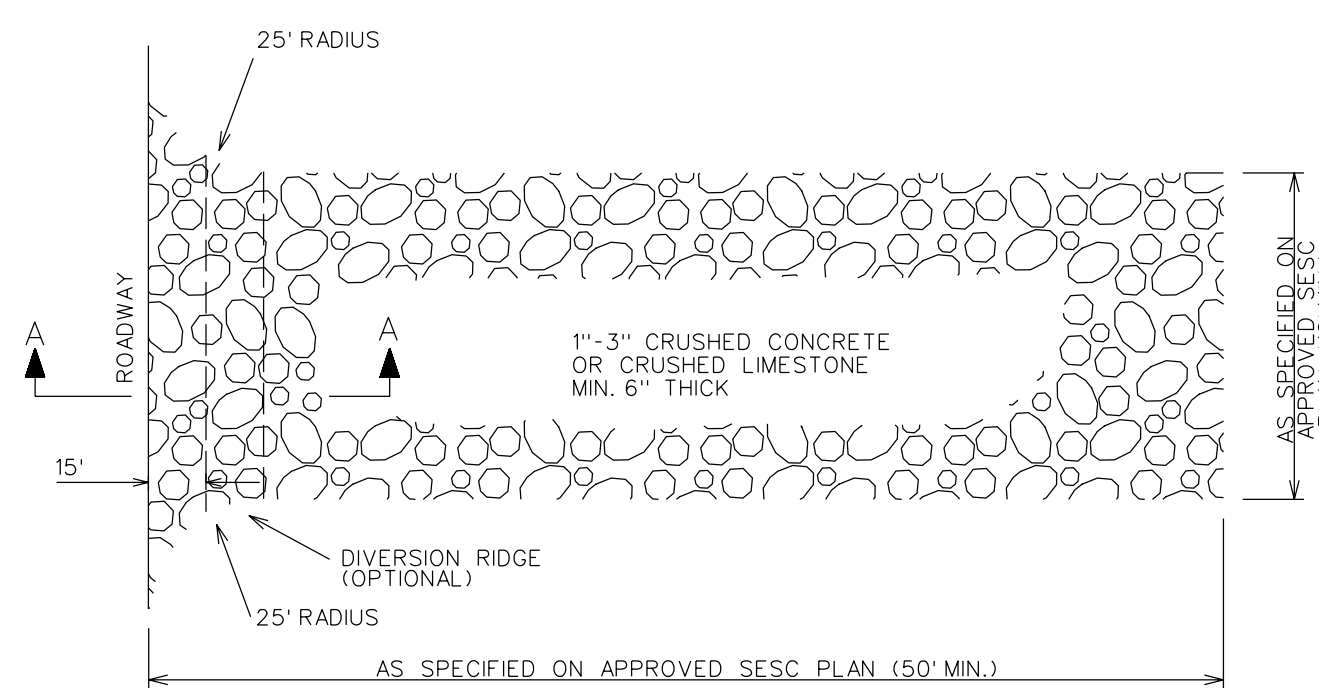
SDSESC005



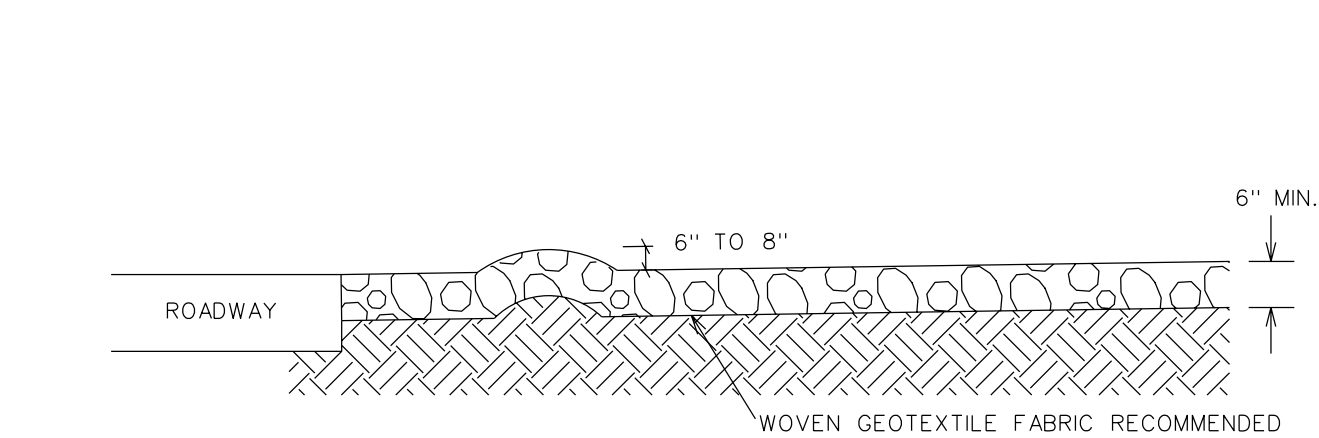
NOTE: ALL FABRIC TRENCHING (A, C, D) ARE TO BE 6" DEEP X 6" WIDE MINIMUM OVERLAPS ARE A MINIMUM OF 6" OR PER MANUFACTURER'S SPECIFICATIONS. SECURE BY USING AN APPROPRIATE PINNING PATTERN PER MANUFACTURER'S SPECIFICATIONS.

CITY OF STERLING HEIGHTS STANDARD DETAILS	SOIL EROSION CONTROL BLANKETS	DATE: 03/14/08	SAC
		REVISED:	

SDSESC006



PLAN VIEW

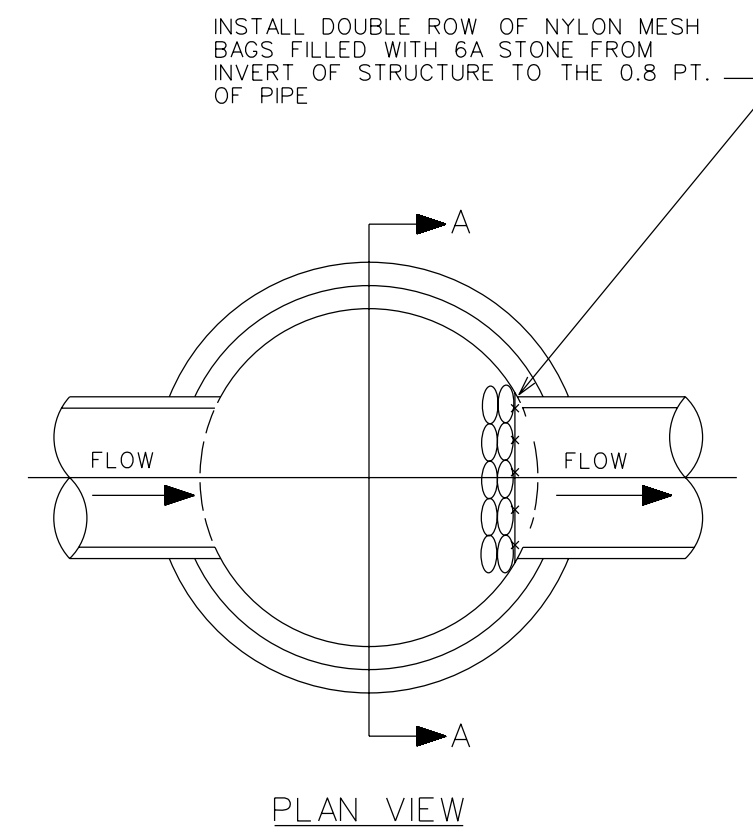


SECTION A-A

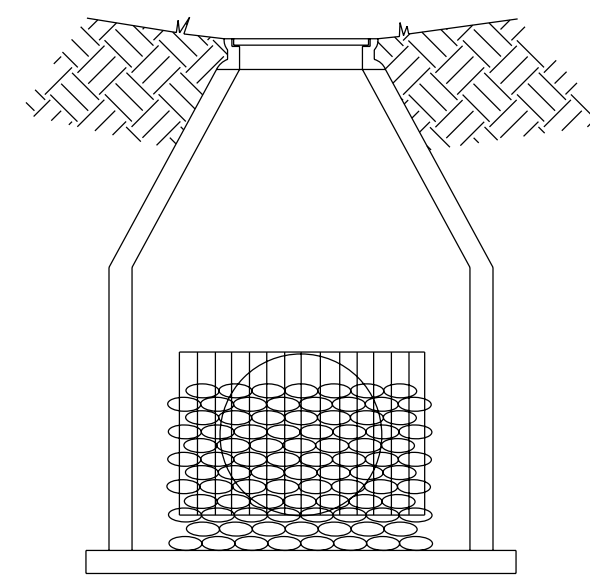
NOTE: DIVERSION RIDGE RECOMMENDED WHERE ACCESS DRIVE EXCEEDS 22'

CITY OF STERLING HEIGHTS STANDARD DETAILS	SOIL EROSION TEMPORARY STONE ACCESS DRIVE	DATE: 02/11/08	RM
		REVISED:	

SDSESC007



PLAN VIEW



SECTION A-A

CITY OF STERLING HEIGHTS STANDARD DETAILS	SOIL EROSION 6A STONE FILTER	DATE: 02/11/08	RM
		REVISED:	

SDSESC008

**CONDOMINIUM/SUBDIVISION DEVELOPMENTS SEQUENCE OF OPERATION FOR CATCH BASIN**

- PAVEMENT CATCH BASIN(S):**
- Upon completion of pavement catch basin(s), install geotextile inlet filter(s) per Geotextile Inlet Filter detail.
  - Upon completion of paving, remove inlet filter(s) and replace with catch basin filter bag(s) per Catch Basin Filter Bag detail.
- REAR YARD CATCH BASIN(S):**
- Upon completion of mass grading, install inlet protection fence per Inlet Protection Fence detail.
- NOTES:**
- Inlet filter(s) shall be inspected weekly under normal conditions, within 24 hours of a precipitation event and daily during a prolonged precipitation event.
  - Buildup of sediment and debris shall be removed promptly.
  - If fabric decomposes or becomes ineffective prior to the end of the expected life and the barrier is still required, the fabric shall be replaced promptly.
  - Additional measures aside from those shown on this plan may be required due to site conditions as determined by the City Engineer.

**GENERAL NOTES**

- All erosion and sediment control work shall conform to standards and specifications of the City of Sterling Heights.
- Daily inspections shall be made by the Contractor to determine effectiveness of erosion and sediment control measures, and any necessary repairs shall be performed without delay.
- Erosion and any sedimentation from work on this site shall be contained on the site and not allowed to collect on any off-site areas or in waterways. Waterways include both natural and man-made open ditches, streams, storm drains, lakes and ponds.
- Erosion and sediment control measures are to be placed prior to, or as the first step in construction. Sediment control practices will be applied as a perimeter defense against any transporting of silt off the site.
- Contractor shall apply temporary erosion and sedimentation control measures as required and as directed on these plans. He shall remove temporary measures as soon as permanent stabilization of slopes, ditches, and other earth changes have been accomplished.
- Permanent soil erosion control measures for all slopes, channels, ditches or any disturbed land area shall be completed within 5 calendar days after final grading or the final earth change has been completed. When it is not possible to permanently stabilize a disturbed area after an earth change has been completed or where significant earth change activity ceases, temporary soil erosion control measures shall be implemented within 30 calendar days. All temporary soil erosion measures shall be maintained until permanent soil erosion control measures are implemented and established before a certificate of compliance is issued.
- All mud/dirt tracked onto existing city/county/state roads from this site, due to construction, shall be removed by the Contractor/Builder at the end of the work day or immediately if a driving hazard is present.
- All onsite and offsite areas disturbed by construction shall be restored to equal or better than original existing conditions. All restoration shall consist of a minimum of 3" topsoil with seed and mulch or 3" of topsoil and Class "A" sod where existing conditions require sod replacement.

CITY OF STERLING HEIGHTS STANDARD DETAILS	SOIL EROSION NOTES	DATE: 02/11/08	RM
		REVISED: 05/06/11	

REVISIONS	DATE	05/08/11
	DESCRIPTION	Rev. note 6 of General notes.
SCALE: 1" = 50'	DATE NOTED	
	FIELD BOOK	
DRAWN: RM	APPROVED: SC	
	CITY ENGINEER	
PROJECT INFORMATION	LOCATION: CITY OF STERLING HEIGHTS	
	STATION:	
CITY OF STERLING HEIGHTS	SECTION:	
	FILE NAME: F:\DRAW\DETAILS\DRSESC.DGN	
STANDARD DETAILS	SOIL EROSION	
	SOIL EROSION	
SHEET 1 OF 1	DATE: 02/11/08	RM
	REVISED: 05/06/11	



**CONSTRUCTION NOTES**

- The Contractor shall notify the City of Sterling Heights Office of Engineering (586-446-2720) 48 hours prior to the start of construction of public utilities or of construction within City Rights-Of-Way.
- All construction shall conform to the current standards and specifications of the City of Sterling Heights which are included as part of these plans.
- After the completion of construction of public utilities or construction within City Rights-Of-Way, the Contractor must request a Final Inspection. Any Punchlist items resulting from the Final Inspection must be resolved prior to the final release and acceptance.
- The existing utilities indicated on this plan are in accordance with available information. It shall be the Contractor's obligation to verify the exact location of all existing utilities which might affect this job.
- The Contractor shall notify "Miss Dig" (647-7344) at least 3 working days prior to the start of construction.
- The Contractor shall at all times be aware of inconvenience caused to the abutting property owners and general public. Where undue inconveniences are not remedied by the Contractor, the City, upon four hours notice, reserves the right to perform the necessary work and deduct the cost therefore from the money due the Contractor.
- During construction the Contractor shall provide watchmen and flagmen as may be required for the safety and convenience of the public and shall furnish all barricades, signs, and lights necessary to protect the public. Traffic shall be maintained at all times unless otherwise authorized by the City of Sterling Heights. Traffic control shall be in accordance with the Michigan Manual of Uniform Traffic Control Devices, current edition by the Michigan Department of Transportation.
- In cases where detour roads are necessary, traffic shall be routed over roads as directed by the City of Sterling Heights. In all cases, the detour roads shall be maintained with dust control and grading as required by the Engineer.
- Existing roads used as haul routes shall be approved by the City of Sterling Heights and the Contractor shall maintain them with grading and dust control as required by the Engineer.
- The Contractor is to provide adequate dust control when such a problem has been caused by his construction operations. Dust control methods must meet the approval of the City.
- All property irons and monuments disturbed or destroyed by the Contractor's operations shall be replaced by a Registered Land Surveyor provided by the Contractor at the Contractor's expense.
- Contractor shall provide Owner and Engineer a copy of written permission to use private property for storage of equipment and materials or for his construction operations.
- Trench backfill under existing or proposed roadways, driveways and parking areas, unless otherwise noted, shall be sand or gravel, placed in 12 inch layers (maximum) and consolidated to 95% maximum density as measured by modified proctor.
- Gravel or slag roadways, driveways, parking areas and shoulders shall be restored by placing 8 inches of 21AA limestone and shall be maintained as settling takes place.
- Trees and shrubs are to be protected during construction and bored where necessary unless other arrangements are made with the abutting property owner from whom a written release shall be obtained and provided to the City. Unless specifically designated at a location on the plan, tunnel or bore of tree(s), shrubs, etc. shall be incidental to the unit price of the utility.
- Existing fences shall be removed and restored to their original condition or better where in conflict with construction.
- Driveways, culverts, ditches, drain tile, sprinkler systems, drainage structures, etc., that are disturbed by the Contractor's operations shall be immediately restored.
- All established lawn areas disturbed by the Contractor's operations shall be resodded with matching sod or Marion Blue Sod. All other areas shall be seeded and mulched, seeding and mulching shall be done in accordance with the General Specifications. Seeding shall include 4" of topsoil for both field seeding and lawn seeding. Pay item for seeding includes a satisfactory growth of seed. If for whatever reason the seed does not "catch" the first time, then the Contractor is obligated to come back and reseed the area at no additional cost until permanent growth is established.
- All ditch slopes shall have established vegetation and be free from erosion.
- All utility poles in close proximity to construction shall be supported in a manner satisfactory to the utility owner.
- Drive culverts which are removed or destroyed by the contractor's operations shall be replaced with a minimum of 24 feet of 12-inch corrugated metal pipe with end sections. The existing culvert may be reused if it meets City standards.
- Grading of trench backfill shall be kept to within 100 feet of excavation. Soil shall be mounded over the trench continuously. Any surplus excavation (except topsoil) that is left in piles shall be removed from the site within 7 days.
- Existing crushed limestone, decorative stone, etc. drives shall be restored with 8" of like material and be paid for at the unit price indicated in the proposal for 21AA limestone.
- All items not specifically indicated as a pay item in the proposal shall be considered as incidental to the installation of the improvements.
- All utility crossings shall maintain an 18 inch minimum vertical separation.
- All parallel sanitary, storm and water main lines shall maintain a 10 foot minimum horizontal separation.

**PAVING NOTES**

- A. GENERAL**
- Pavement shall be of the type, thickness, and cross-section as indicated on the plans and as follows:
    - Concrete: Portland cement (air-entrained) with a minimum cement content of 6 sacks per cubic yard, minimum 28 day compressive strength of 3500 psi, and a slump of 1 1/2 to 3 inches.
    - Asphalt: Base course - Michigan Department of Transportation 4:11 (20 A); Surface course - Michigan Department of Transportation 4:12 Type M; Asphalt cement penetration grade-85-100; Prime coat - Michigan Department of Transportation MC-30 at 0.30 gallons per square yard; Bond coat - Michigan Department of Transportation SS-1h at 0.15 gallons per square yard; maximum 2 inch lift.
  - The pavement base shall be compacted to 95% of the maximum density (modified Proctor) prior to placement of the pavement.
  - Drive approaches shall be constructed in accordance with Michigan Department of Transportation Standard Plan R-29L.
  - Sidewalk ramps shall be constructed where required in accordance with Michigan Department of Transportation Standard Plan R-28L.
  - All structures (manholes, gatewells, hydrants, etc.) shall be adjusted to the finish grade.
- B. PUBLIC STREETS**
- All proposed elevations are for top of curb unless otherwise noted.
  - The pavement shall be centered in the right-of-way unless otherwise noted.
  - Expansion joints shall be placed at the end of all intersection radii.
  - Edge drains shall be installed where designated by the Engineer.
  - Concrete pavement joints shall be filled with hot poured rubber asphalt joint sealing compound. (Federal Specification SS-S-164)

**STORM SEWER NOTES**

- All storm sewers shall be installed on a Class "B" or Class "B" Modified bedding (see Standard Detail) unless indicated otherwise.
- Joints for storm sewers shall be plain joints with Dewitt #10 or an approved equal.
- The inside joints for all storm sewers 30" and larger shall be cement pointed.
- Tees shall be provided for building drains or sump pump leads. Breaking into the storm sewer for connection will not be permitted.
- Whenever existing manholes or sewer pipe are to be topped, holes are to be drilled 4 inch center to center spacings around the periphery of the proposed opening to create a plane of weakness joint - a 12 inch (minimum) thick concrete collar is to encase the new pipe and opening. See detail on construction plans.

**SANITARY SEWER NOTES**

- The Contractor shall notify the Macomb County Public Works Office at (586) 469-5325 at least 3 working days prior to the start of any sanitary sewer construction.
- All sewers to be placed on Class "B" bedding or better.
- Wyes, risers, and house leads are to be placed at locations shown on the plans or as directed by the Engineer. All wyes are incidental.
- Each wye or house lead shall have a plug of the same type of joint as the house lead.
- House leads shall be a minimum of 9 ft. deep at the property line.
- Downspouts or other conduits carrying storm or ground water shall not be connected to the sanitary sewer.
- Whenever existing manholes or sewer pipe are to be topped, holes are to be drilled at 4 inch center to center spacings around the periphery of the proposed opening to create a plane of weakness joint - a 12 inch thick concrete collar is to encase the new pipe and opening.
- Maximum infiltration shall not exceed 100 gallons per inch of diameter per mile of pipe per 24 hours. For purposes of testing infiltration, a video of all pipe must be submitted along with an air pressure test prior to acceptance by the City.
- The inside joints for all sanitary sewers 30" and larger shall be cement pointed.
- All concrete sanitary sewer, manhole and pipe joint shall be modified grooved tongue with rubber gaskets as required under the current adopted A.S.T.M., C-443.
- All sanitary sewer shall be pressure tested and video tested at least 30 days after installation. Maximum 5.0% deflection allowed. Truss pipe installed less than 12 feet below grade will be exempt from the deflection test.

NOTE: ABS & PVC Truss Pipe Will Be Allowed For Sanitary Sewer In Lieu of C-14XM Sanitary Sewer With the Permission of the City Engineer.

**SOIL EROSION AND SEDIMENTATION CONTROL**

- All erosion and sediment control work shall conform to standards and specifications of the City of Sterling Heights.
- Daily inspections shall be made by the Contractor to determine effectiveness of erosion and sediment control measures, and any necessary repairs shall be performed without delay.
- Erosion and any sedimentation from work on this site shall be contained on the site and not allowed to collect on any off-site areas or in waterways. Waterways include both natural and man-made open ditches, streams, storm drains, lakes and ponds.
- Erosion and sediment control measures are to be placed prior to, or as the first step in construction. Sediment control practices will be applied as a perimeter defense against any transporting of silt off the site.
- Contractor shall apply temporary erosion and sedimentation control measures as required and as directed on these plans. He shall remove temporary measures as soon as permanent stabilization of slopes, ditches, and other earth changes have been accomplished.
- Permanent soil erosion control measures for all slopes, channels, ditches or any disturbed land area shall be completed within 5 calendar days after final grading or the final earth change has been completed. When it is not possible to permanently stabilize a disturbed area after an earth change has been completed or where significant earth change activity ceases, temporary soil erosion control measures shall be implemented within 30 calendar days. All temporary soil erosion measures shall be maintained until permanent soil erosion control measures are implemented and established before a certificate of compliance is issued.
- All mud/dirt tracked onto existing city/county/state roads from this site, due to construction, shall be removed by the Contractor/Builder at the end of the work day or immediately if a driving hazard is present.
- All onsite and offsite areas disturbed by construction shall be restored to equal or better than original existing conditions. All restoration shall consist of a minimum of 4" topsoil with seed and mulch or 3" of topsoil and Class "A" sod where existing conditions require sod replacement.

**WATER MAIN NOTES**

- The Contractor shall notify the Inspection Section of the Detroit Water and Sewerage Dept. at (313) 833-8649 at least 3 working days prior to the start of any water main construction.
- When it is necessary to shut down existing water mains, the Contractor shall contact the City of Sterling Heights Department of Public Services 24 hours prior to the shutdown and he shall cooperate with the City forces in closing the necessary gate valves and in notifying the affected properties.
- Hydrant elevations and gate well top elevations shall be set to existing ground elevations unless otherwise directed by the Engineer.
- All water mains shall be constructed with a minimum cover of 6 ft. below finish grade, unless otherwise indicated on the plans.
- Connections to existing water mains shall not be made until after successful completion of bacteriological and pressure tests.
- All bends, tees, miscellaneous fittings, thrust blocks and sand backfill are to be incidental.
- The Contractor will be paid for horizontal distances only.
- All valves are to be right-hand open.
- All fire hydrants shall be Sterling Heights Standard EJIW 6-BR Traffic Type with breakaway flange or Mueller A425 Centurion, Two-Way with two - 4 1/2 inch pumper nozzles or approved equal.
- There shall be a 3/4 inch corporation stops installed on both sides of each gate valve.
- Two brass wedges shall be installed at each joint on cast iron and ductile iron pipe.
- Cadillac wrap, or an approved equal, shall be used around the water main at gate well walls.
- Service taps, shut-off valves, and service line extensions to the property or easement line shall be made by the City of Sterling Heights Department of Public Works, for connections smaller than 3".
- Where water mains must dip to pass under a storm sewer or sanitary sewer, the sections which are deeper than normal shall be kept to a minimum length by the use of 45°, 22/2°, or 11/4° vertical bends properly anchored.
- Hydrants shall be painted Sunrise Red ('Rust-oleum' 7762 or equal). Nozzles and top flange shall be painted white with reflectorized beads.
- Sizes of iron pipes shall be of a class conforming to the following table:

Nominal Diameter (inches)	Ductile Class	Cast Iron Class
6	54	24
8	54	25
12	54	25
16	54	26

**SITE PLAN NOTES**

- All construction shall conform to the current standards and specifications of the City of Sterling Heights.
- The Contractor shall notify "Miss Dig" (647-7344) at least 3 working days prior to the start of construction.
- The Contractor shall notify the City of Sterling Heights Office of Engineering (586-446-2720) 48 hours prior to the start of construction of public utilities or of construction within City Rights-Of-Way.
- Handicapped parking spaces shall be identified with the international symbol.
- Access to a structure shall be provided for the physically handicapped.
- Onsite parking shall be provided for construction workers.
- An as-built reproducible mylar shall be submitted to the Engineering Department prior to the issuance of any occupancy permit or release of builder's bond.
- All on-site storage tanks, except those containing potable water, shall be provided with secondary containment equal to a minimum 110% of tank capacity.
- All potential utility conflicts must be physically determined prior to the start of construction of utilities. An Engineering inspector must be present.

**REVISIONS**

DATE	DESCRIPTION
10/25/07	Note 7 of SISC notes.
02/06/11	Note 6 of SISC notes.
02/24/15	DEQ Sanitary updates
09/20/16	DEQ Sanitary updates

SCALE: 1" = 50'

DATE:	FIELD BOOK:	PAGE:
06/12/99		

**CITY OF STERLING HEIGHTS**

DRAWN: DWM  
CHECKED: GIB  
APPROVED: TRD  
CITY ENGINEER

40655 UTICA ROAD  
P.O. BOX 8009  
STERLING HEIGHTS, MI 48311-8009  
(586) 446-2489

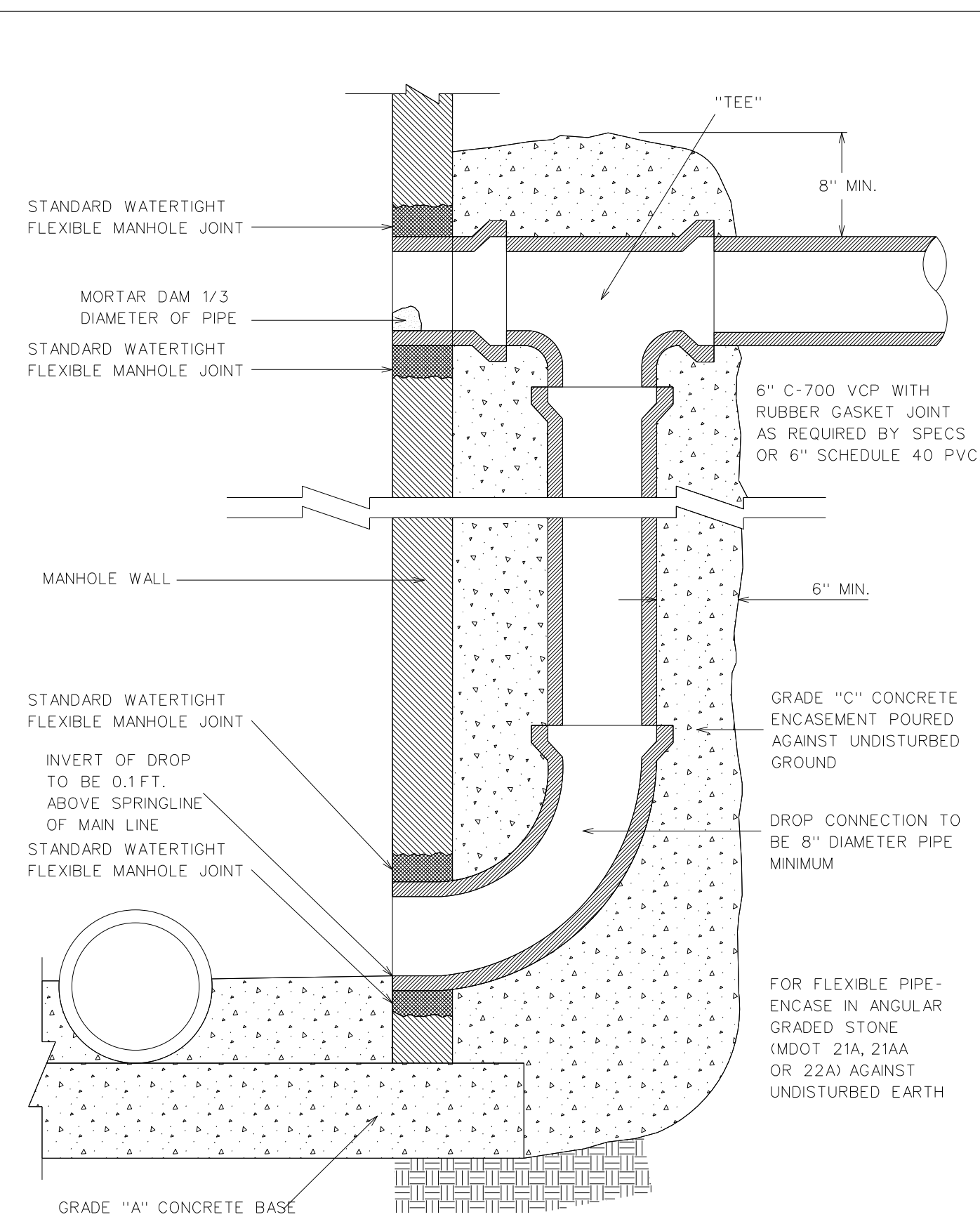
**PROJECT INFORMATION**

LOCATION:	SECTION:
CITY OF STERLING HEIGHTS	F:\DRAW\DETAILS\USHT\DCN
STATION:	
C.P. NO.:	

**STANDARD DETAILS**

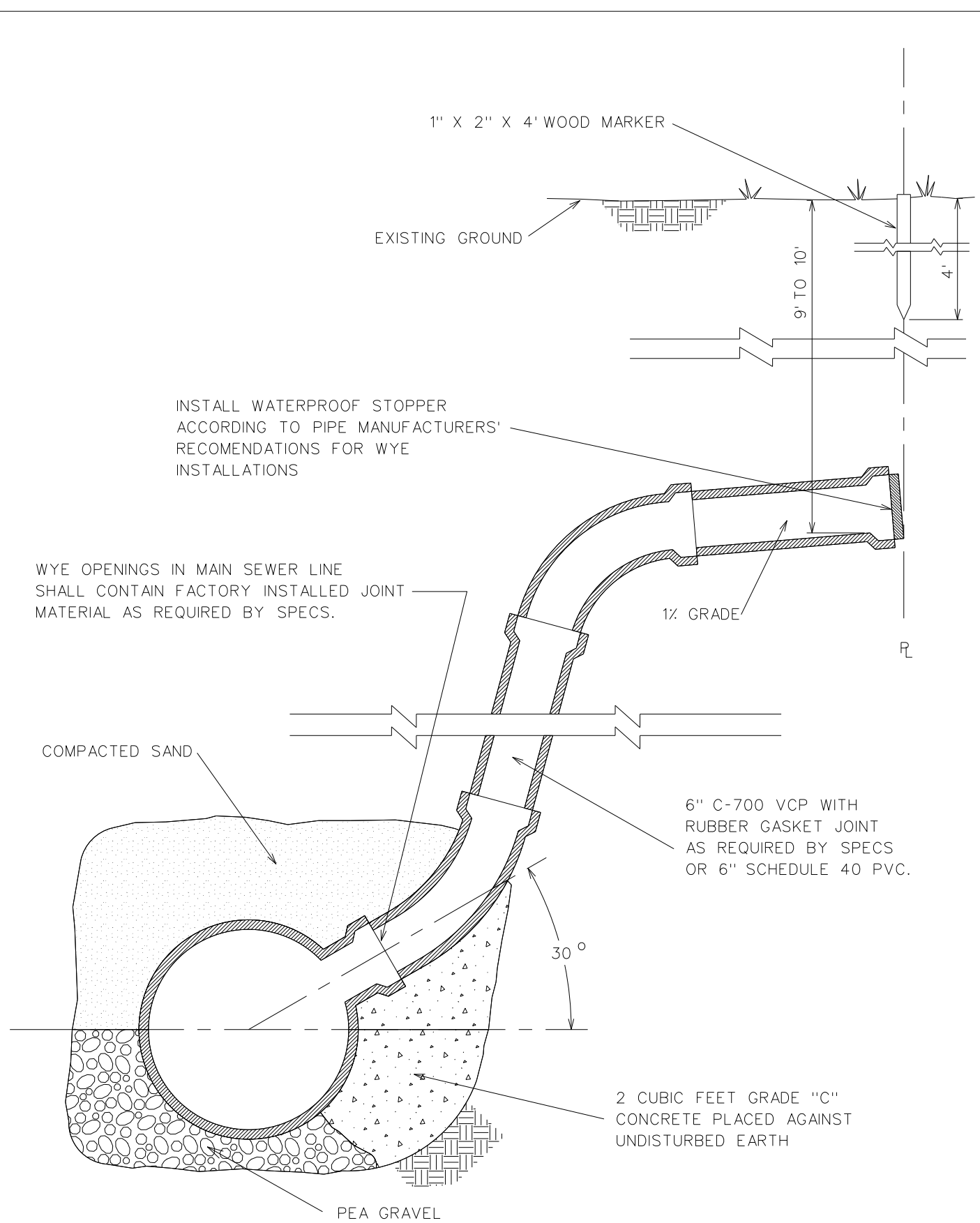
**NOTES**

SDSAN007



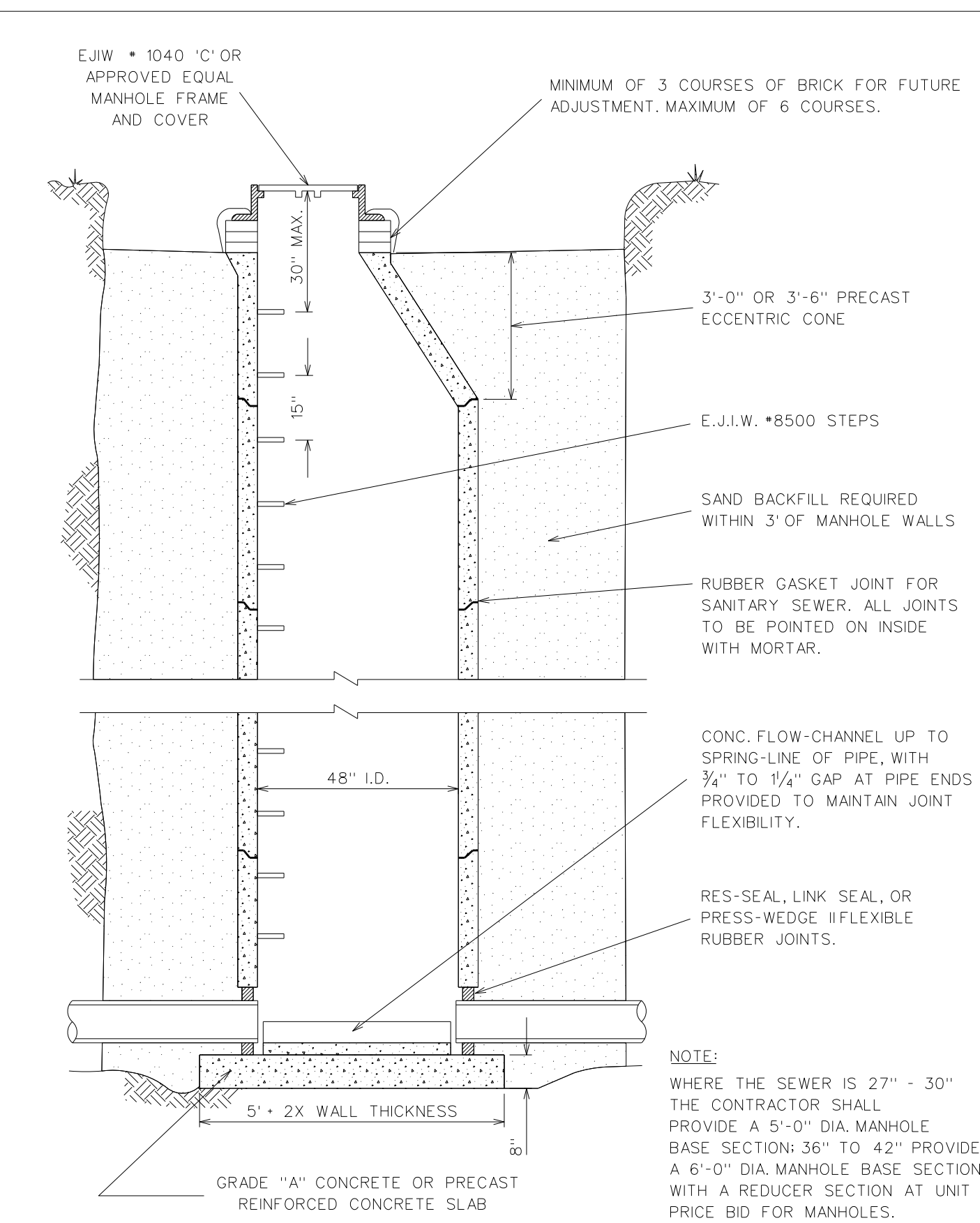
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 GLB  
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SDSAN004



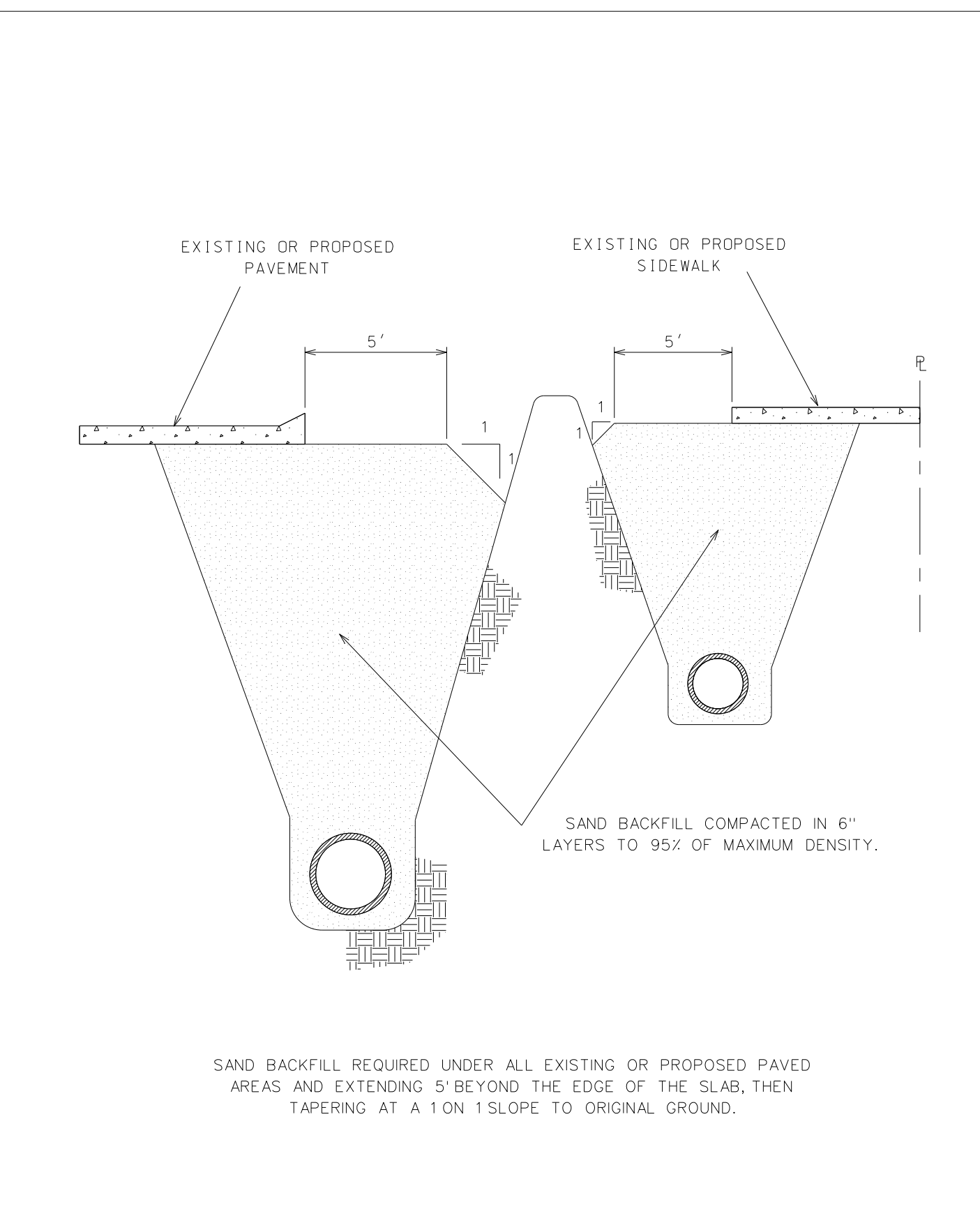
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SDSAN001



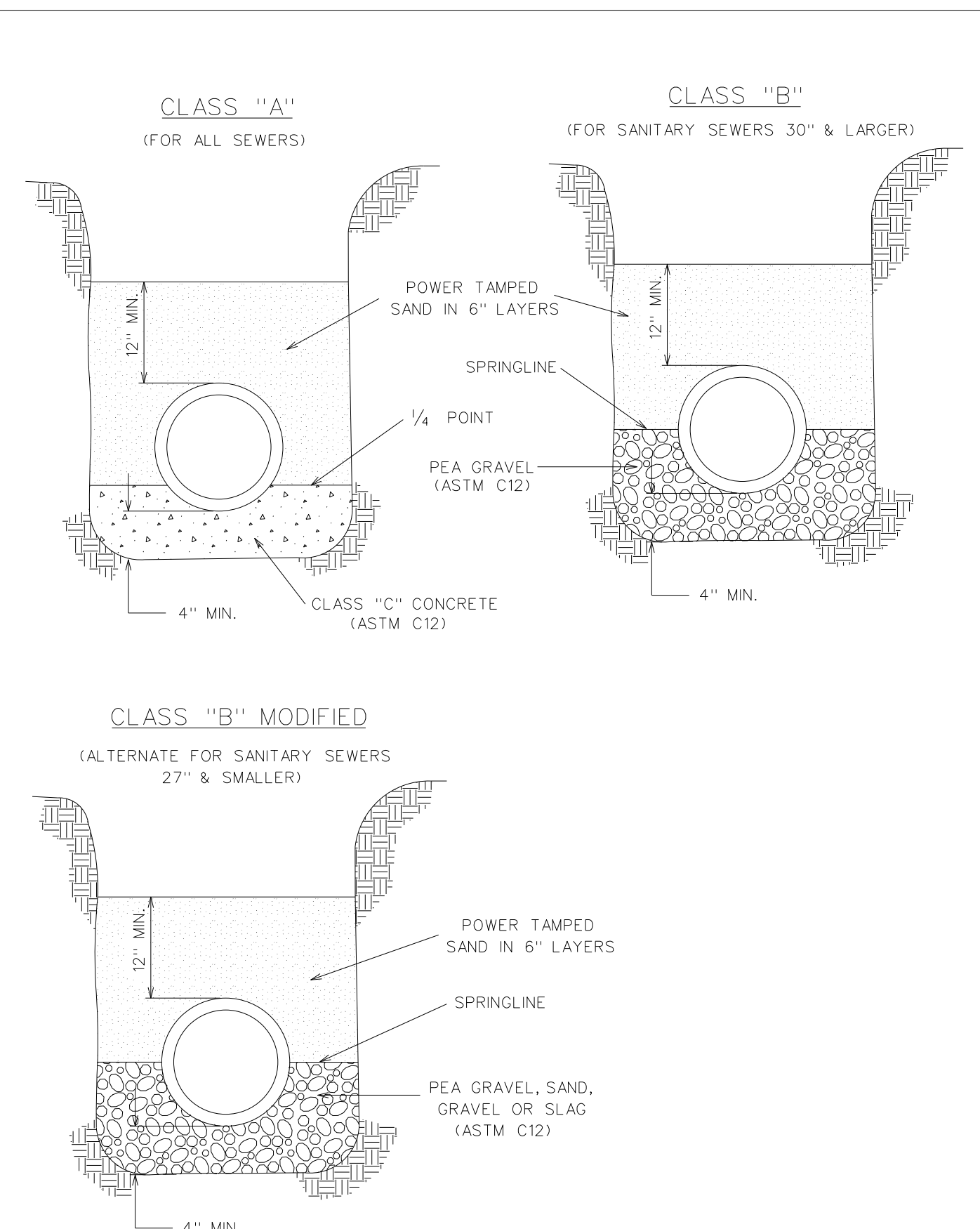
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SDSAN300



CITY OF STERLING HEIGHTS STANDARD DETAILS  
 BACKFILL UNDER PAVED AREAS  
 DATE: 02/19/70  
 GLB  
 REVISED:

SDSAN002



CITY OF STERLING HEIGHTS STANDARD DETAILS  
 SANITARY SEWER BEDDING  
 DATE: 02/27/70  
 GLB  
 REVISED: 1974,78,79,2016

SDSTIM007

MANHOLE MATERIALS

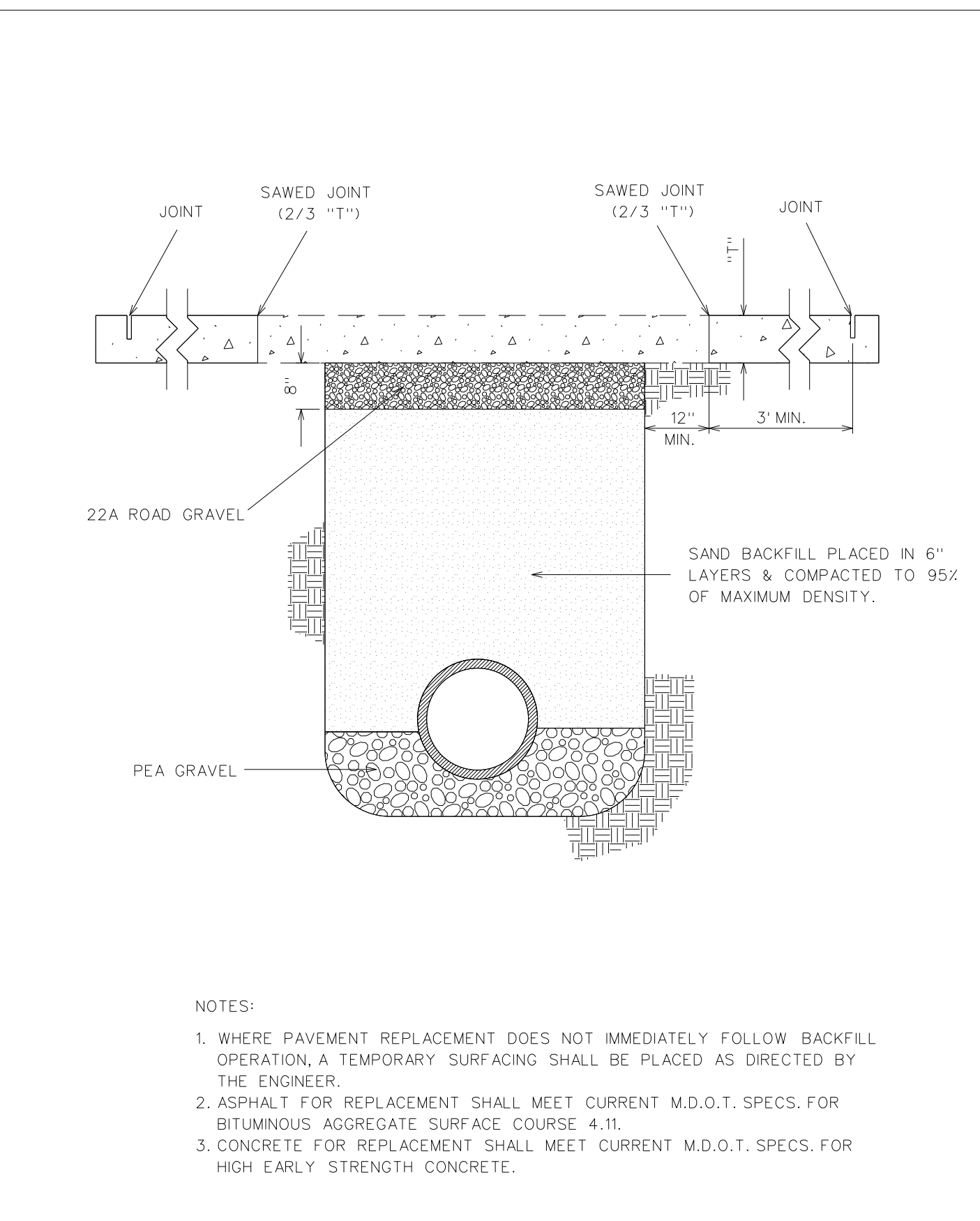
MATERIAL	DEPTH	THICKNESS
BRICK	0'-11"	8"
	11'-16"	12"
BLOCK	0'-16"	16"
	OVER 16"	8"
PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478 SPECIFICATIONS	OVER 16"	12"

TRENCH WIDTH REQUIREMENTS  
(ASTM D2321 SPECIFICATIONS)

PIPE SIZE	TRENCH WIDTH
6" TO 15"	30" MAXIMUM
OVER 15"	4/3 INSIDE DIAMETER OF PIPE PLUS 15" MAXIMUM

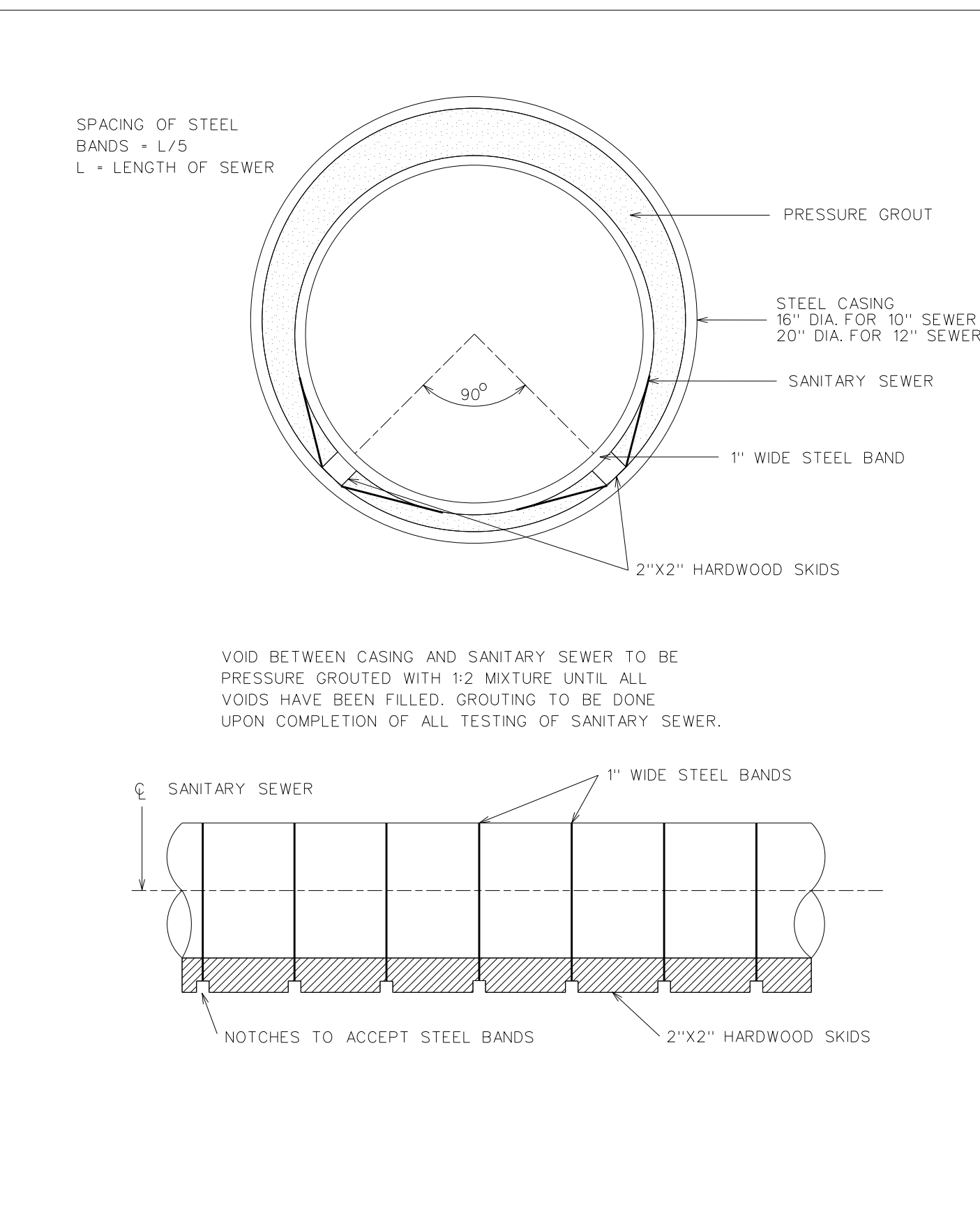
CITY OF STERLING HEIGHTS STANDARD DETAILS  
 MANHOLE MATERIALS & TRENCH WIDTH  
 DATE: 06/30/70  
 GLB  
 REVISED: 09/20/16

SDSAN008



CITY OF STERLING HEIGHTS STANDARD DETAILS  
 PAVEMENT REPLACEMENT  
 DATE: 02/17/70  
 GLB  
 REVISED:

SDSAN008



CITY OF STERLING HEIGHTS STANDARD DETAILS  
 SANITARY SEWER TUNNEL DETAIL  
 DATE: 01/09/07  
 DWM  
 REVISED:

REVISIONS

DATE	DESCRIPTION
09/20/16	MDEQ Sanitary Updates

SCALE: 1" = 50'

DRAWN: DWM	CHECKED: GLB	APPROVED: TRD	CITY ENGINEER

CITY OF STERLING HEIGHTS  
 40555 UTICA ROAD  
 P.O. BOX 8009  
 STERLING HEIGHTS, MI 48311-8009  
 (586) 446-2489

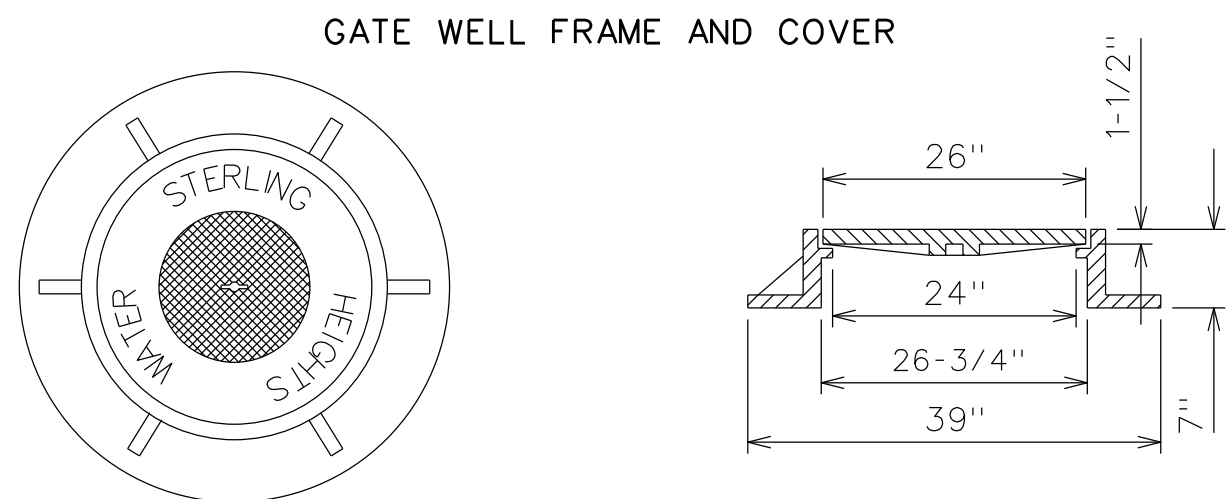
PROJECT INFORMATION

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C.P. NO.	FILENAME: F:\DRAW\DETAILS\USHT02.DWG

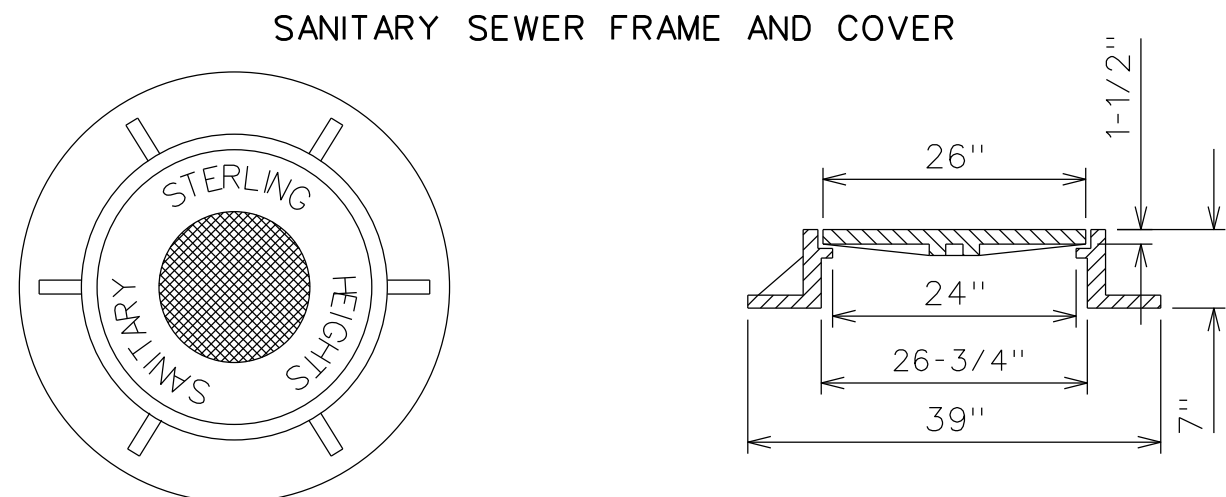
STANDARD DETAILS  
 SANITARY



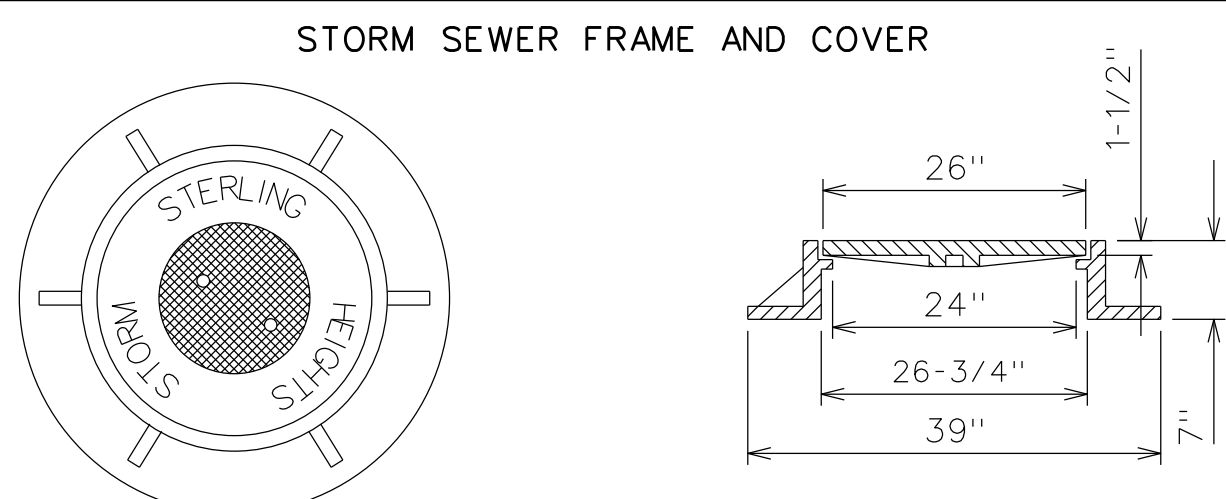
SDSTM001



E.J.I.W. \*1040 TYPE "A" COVER WITH KEY SLOT



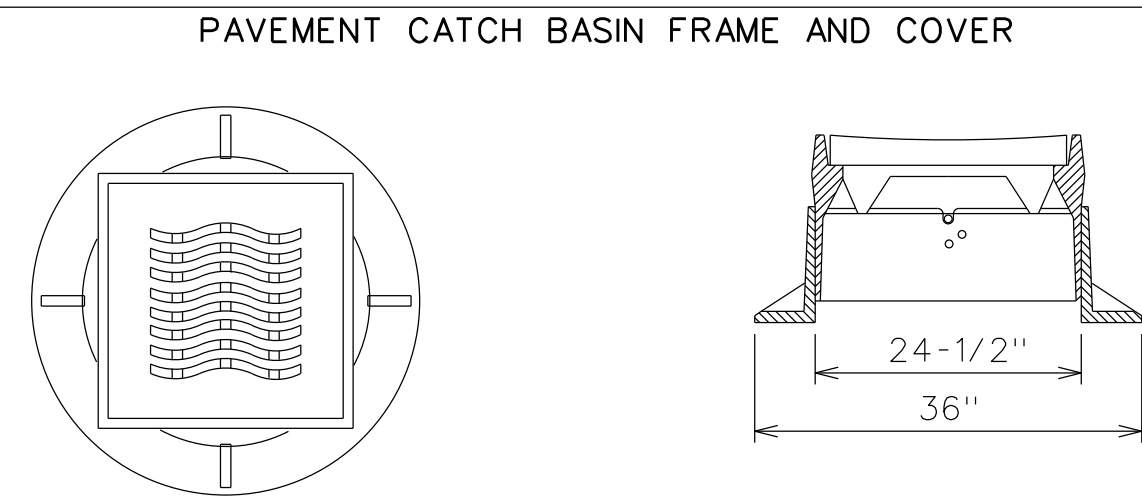
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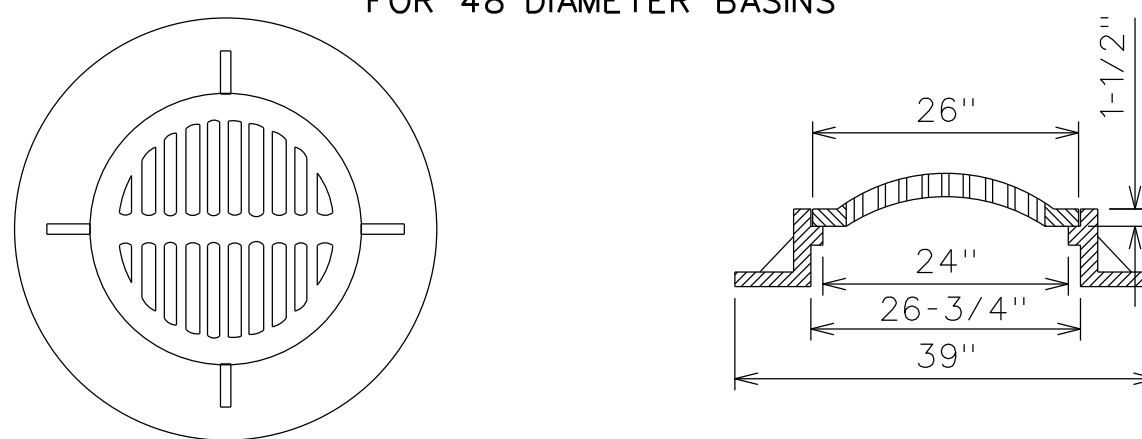
E.J.I.W. \*1040 TYPE "C" COVER

CITY OF STERLING HEIGHTS STANDARD DETAILS	MANHOLE FRAMES & COVERS NON-PAVED AREAS	DATE: 07/17/70 REVISED: 03/21/88	GLB
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SDSAN005



E.J.I.W. \*5105 COVER E.J.I.W. \*5125 TWO PIECE FRAME ASSEMBLY REAR YARD CATCH BASIN FRAME AND COVER FOR 48" DIAMETER BASINS



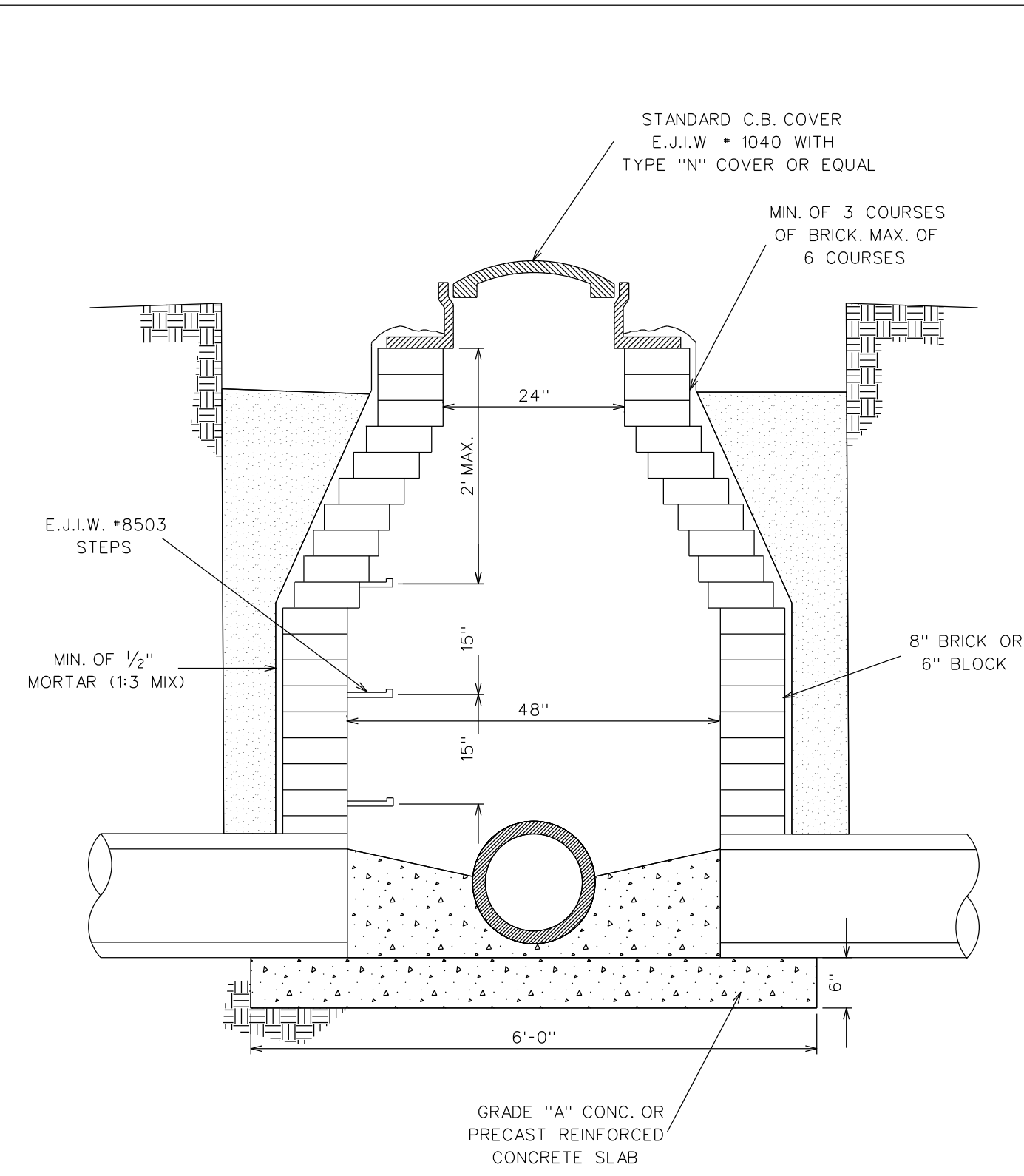
E.J.I.W. \*1040 WITH TYPE "N" COVER REAR YARD CATCH BASIN FRAME AND COVER FOR 24" AND 36" DIAMETER REAR YARD INLETS



E.J.I.W. \*1170 WITH TYPE "N" COVER

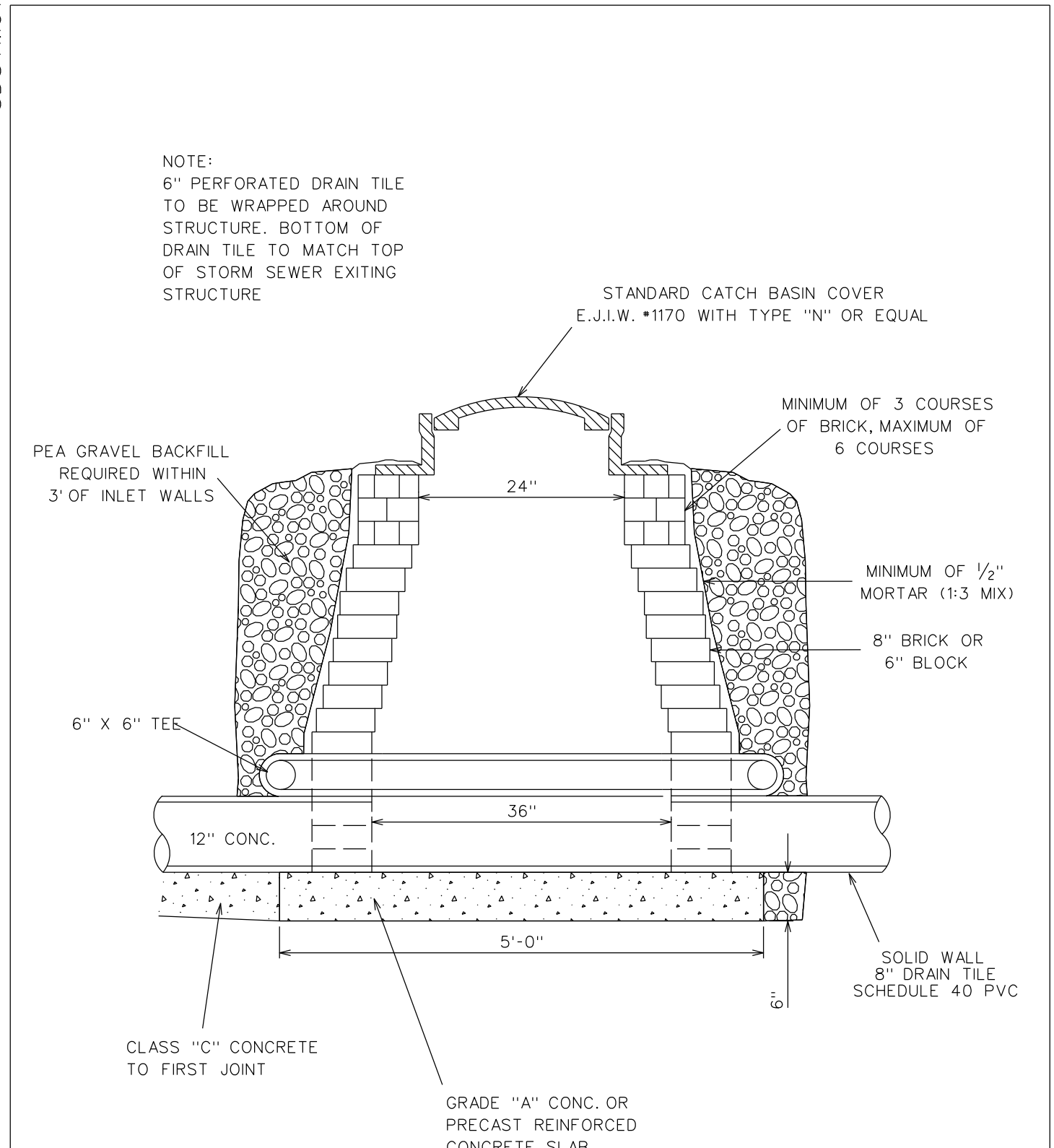
CITY OF STERLING HEIGHTS STANDARD DETAILS	CATCH BASIN FRAMES & COVERS	DATE: 02/13/70 REVISED: 1977,80,81,88	GLB
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SDSTM006



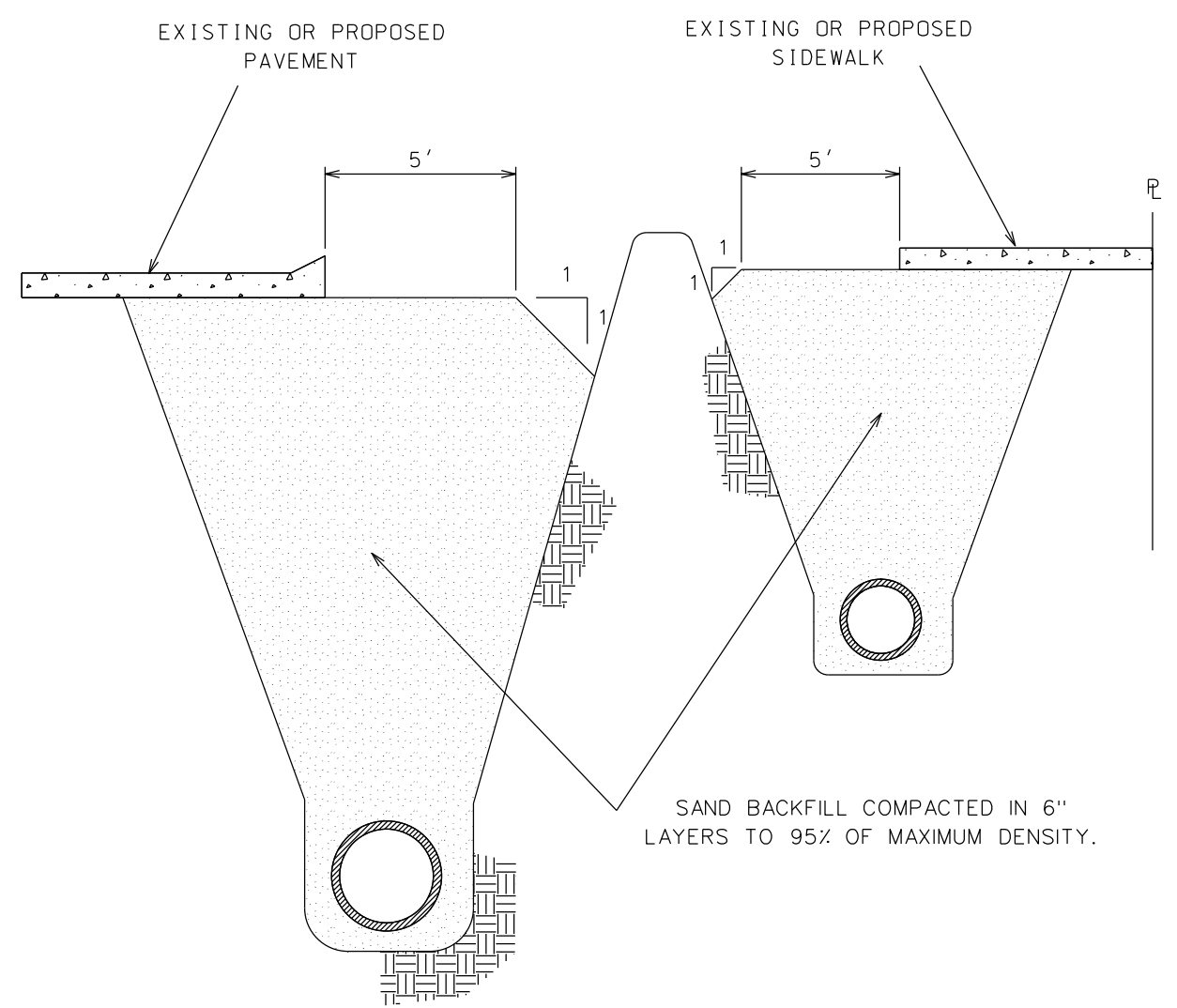
CITY OF STERLING HEIGHTS STANDARD DETAILS	48" REAR YARD CATCH BASIN	DATE: 04/07/72 REVISED: 01/09/81	LV
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SDSTM011



CITY OF STERLING HEIGHTS STANDARD DETAILS	36" REAR YARD INLET	DATE: 12/22/76 REVISED: 1981,88	DRJ
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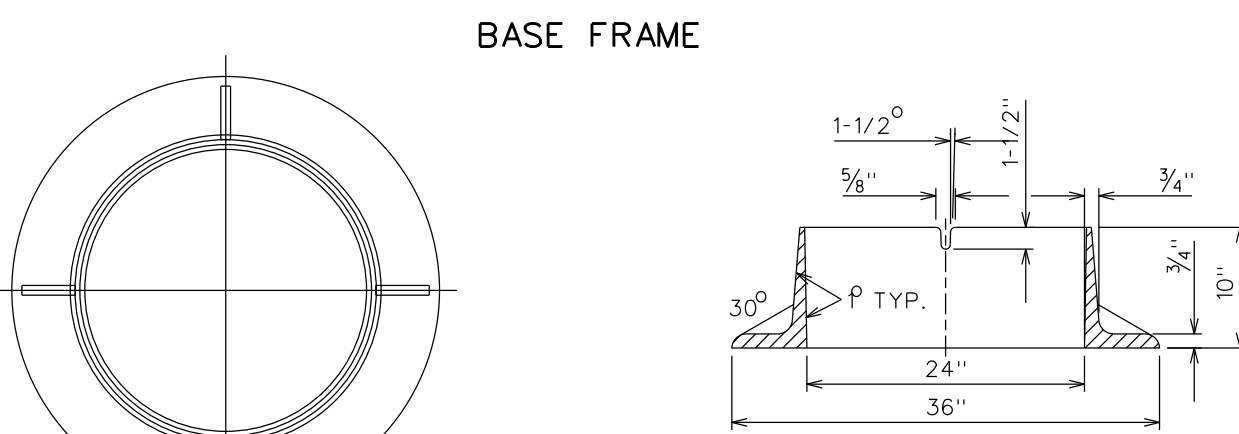
SDSAN300



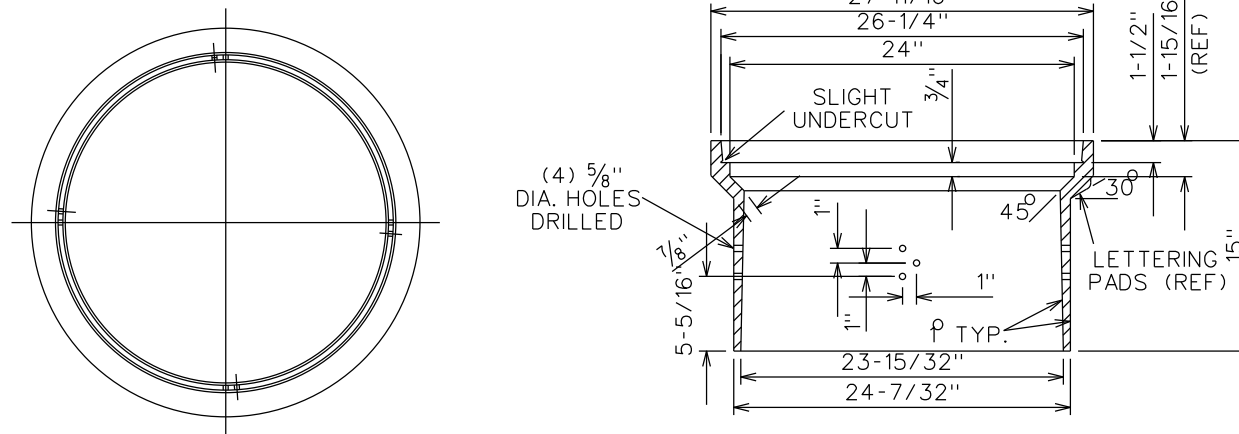
SAND BACKFILL REQUIRED UNDER ALL EXISTING OR PROPOSED PAVED AREAS AND EXTENDING 5' BEYOND THE EDGE OF THE SLAB, THEN TAPERING AT A 1 ON 1 SLOPE TO ORIGINAL GROUND.

CITY OF STERLING HEIGHTS STANDARD DETAILS	BACKFILL UNDER PAVED AREAS	DATE: 02/19/70 REVISED:	GLB
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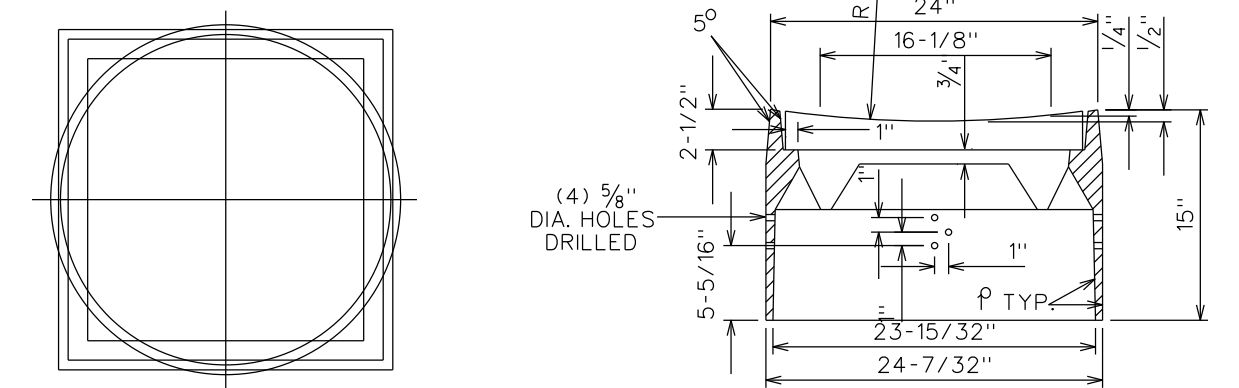
SDSAN006



E.J.I.W. \*1795 (CONCRETE PAVEMENT ONLY)



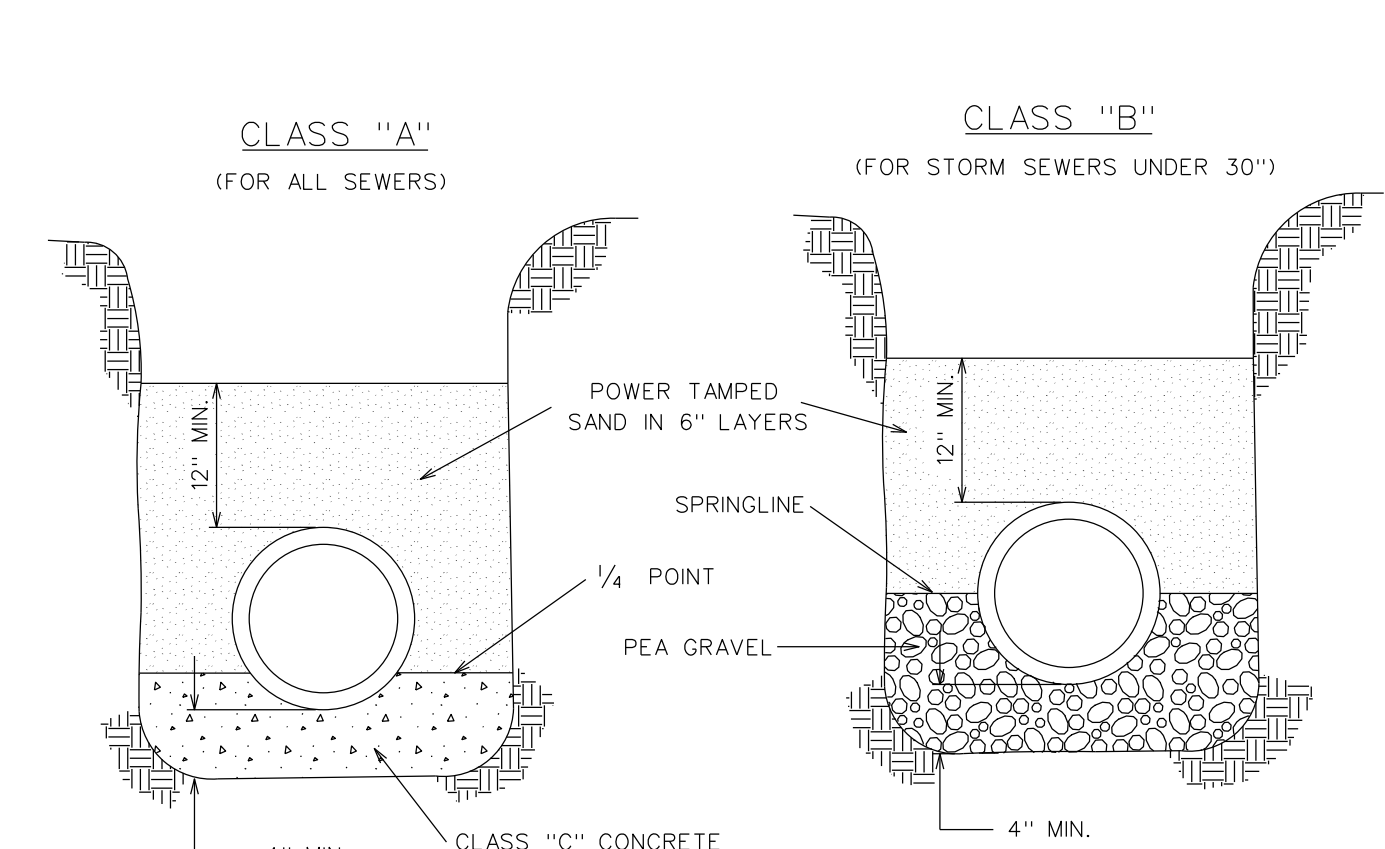
E.J.I.W. \*1795 CENTER FRAME (ASPHALT PAVEMENT OR FIELD C.B.)



E.J.I.W. \*5125 CENTER FRAME (CONCRETE PAVEMENT ONLY)

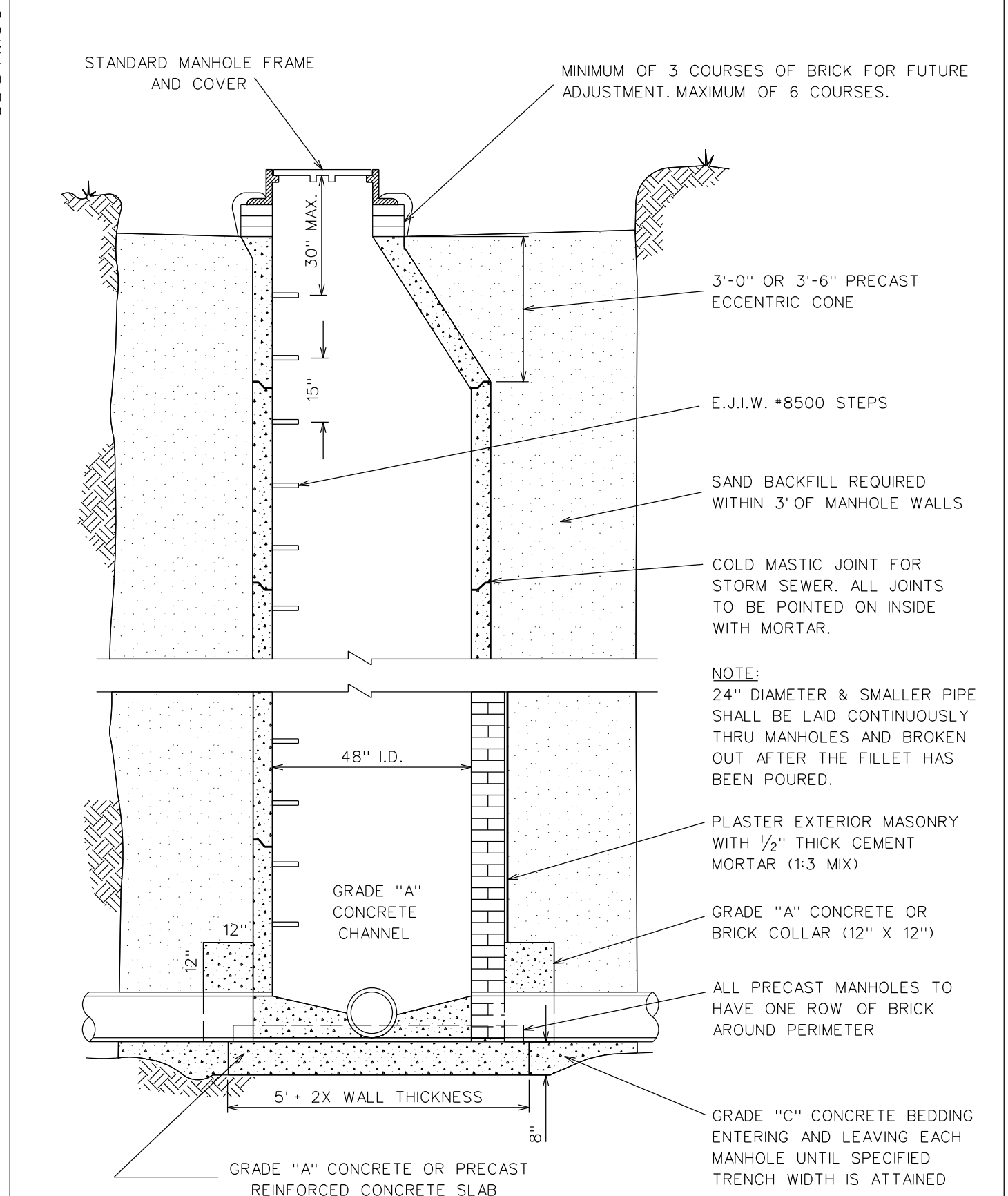
CITY OF STERLING HEIGHTS STANDARD DETAILS	MANHOLE FRAMES & COVERS PAVED AREAS	DATE: 03/22/88 REVISED:	DRJ
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SDSTM002



CITY OF STERLING HEIGHTS STANDARD DETAILS	STORM SEWER BEDDING	DATE: 02/27/70 REVISED: 1974,78,79	GLB
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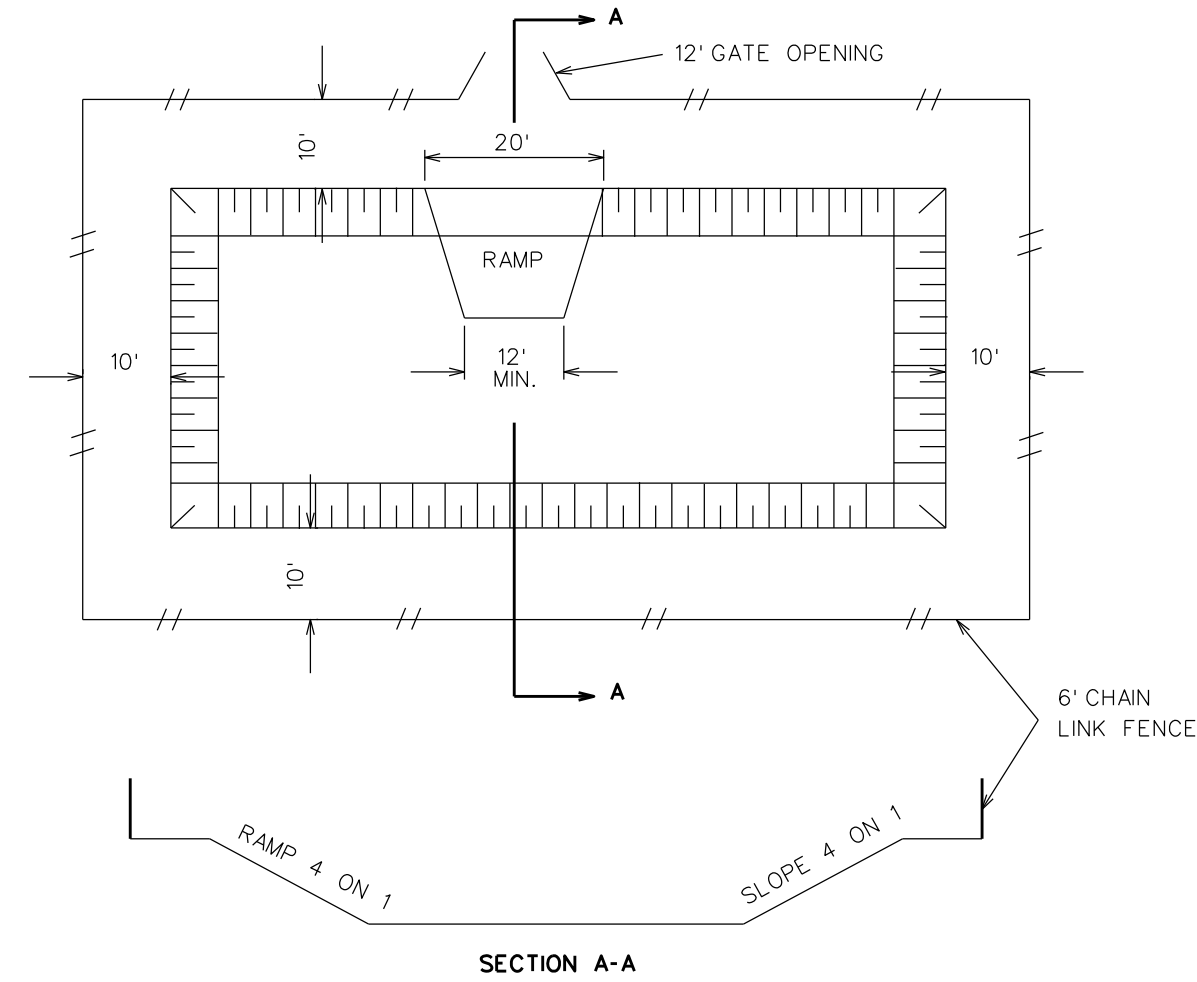
SDSTM004



CITY OF STERLING HEIGHTS STANDARD DETAILS	STORM M.H. FOR SEWERS LESS THAN 48" DIAMETER	DATE: 02/16/70 REVISED: 06/23/76	GLB
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REVISIONS		SCALE: 1" = 50'	DRAWN: DMW	CITY OF STERLING HEIGHTS	PROJECT INFORMATION
DATE	DESCRIPTION	DATE: NOTED	CHECKED: GJB	LOCATION: CITY OF STERLING HEIGHTS	STATION:
		FIELD BOOK:	APPROVED: TRD	40555 UTICA ROAD	C.P. NO.:
		PAGE:	CITY ENGINEER	P.O. BOX 8009	SECTION:
				STERLING HEIGHTS, MI 48311-8009	FILENAME: F:\DRAW\DETAILS\USHT04.DGN
				(586) 446-2489	
				CITY OF STERLING HEIGHTS	STANDARD DETAILS
				40555 UTICA ROAD	STORM 1 OF 2
				P.O. BOX 8009	
				STERLING HEIGHTS, MI 48311-8009	
				(586) 446-2489	
					SHEET 4 OF 2

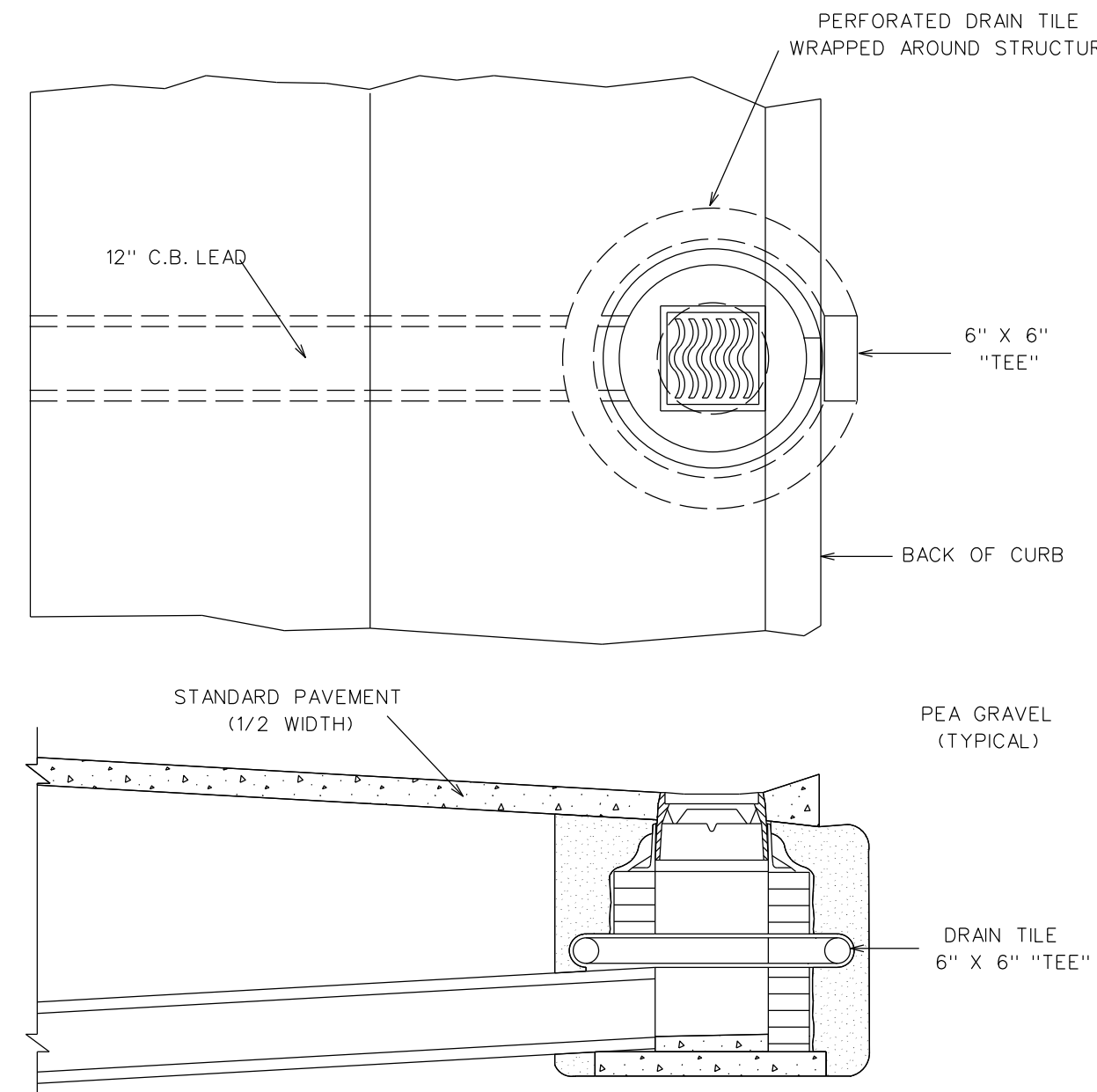
SDSTM013



- NOTES:
1. OVERFLOW PIPE TO BE PROVIDED AS CALLED FOR ON PLAN.
  2. ENTIRE BASIN WITHIN FENCING TO BE TOPSOILED, SEEDED AND MULCHED OR SODDED WITH CLASS "B" SOD.
  3. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING OF THE BASIN UNTIL BASIN IS ACCEPTED BY THE CITY.
  4. ALL INLET AND OUTLET PIPES TO HAVE BAR SCREENS AND GROUTED RIP-RAP AS REQUIRED, ALL FLAP GATES INSIDE FENCE.
  5. ALL GATES CONSTRUCTED DIRECTLY IN FRONT OF A PAVED ROAD-WAY ARE TO HAVE A "ROAD ENDS" SIGN FASTENED SECURELY TO GATE.
  6. ELECTRICAL SERVICE TO BE PLACED INSIDE FENCING WHENEVER POSSIBLE.
  7. CITY WILL PROVIDE NECESSARY PADLOCKS UPON COMPLETION & ACCEPTANCE OF THE BASIN

CITY OF STERLING HEIGHTS STANDARD DETAILS	RETENTION BASIN	DATE: 02/03/70	GLB
		REVISED: 1977,77,79,80	

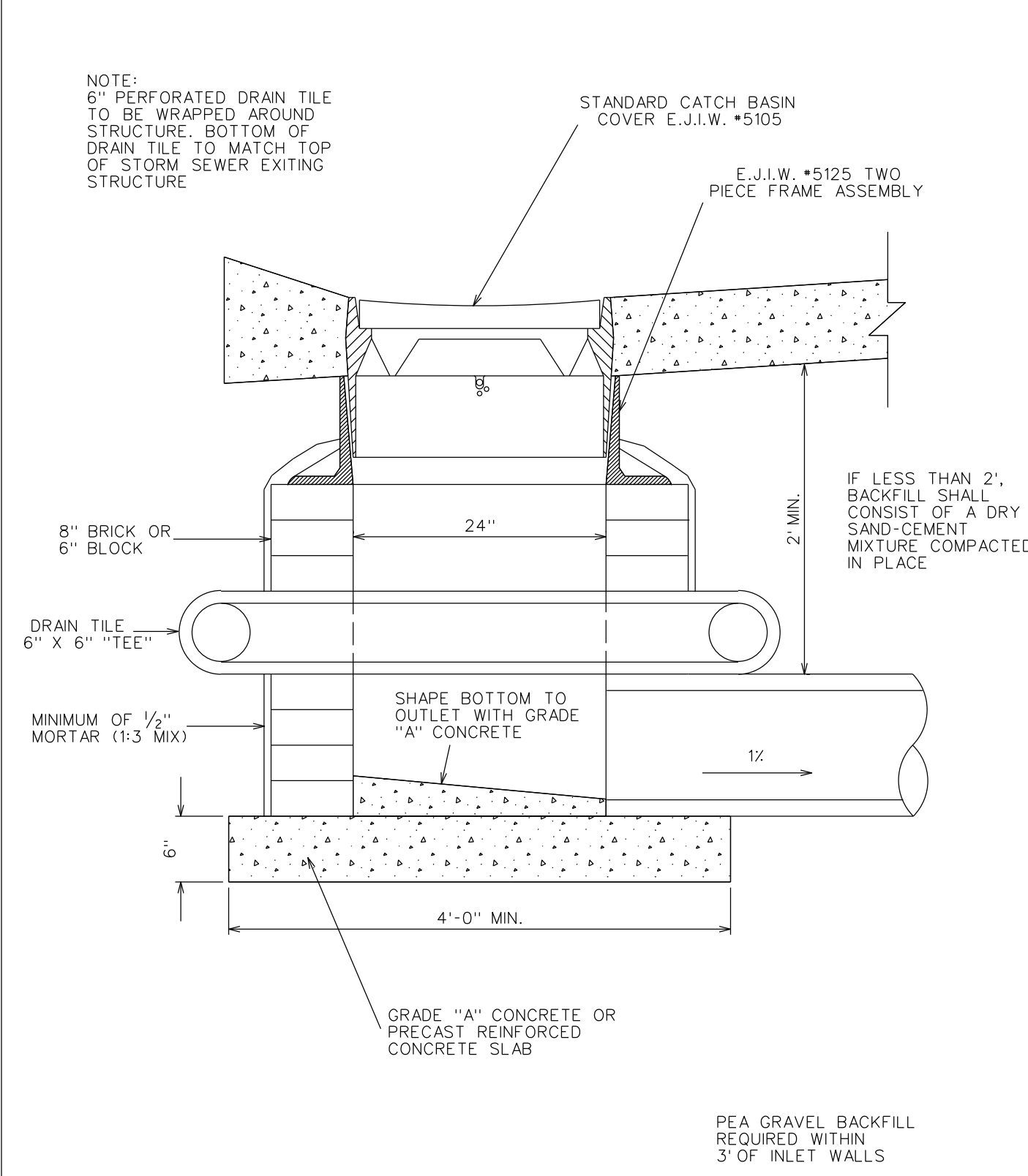
SDSTM014



- NOTES:
1. BOTTOM OF 6" DRAIN TILE TO MATCH TOP OF HIGHEST STORM SEWER PIPE ENTERING/EXITING STRUCTURE.
  2. THIS DETAIL IS TYPICAL FOR ALL CATCH BASINS AND INLETS REQUIRING DRAIN TILE.
  3. DRAIN TILE TO BE CORRUGATED PLASTIC TUBING, PVC TUBING MEETING ASTM F800 REQUIREMENTS OR BE TUBING MEETING AASHTO M 252 REQUIREMENTS WITH FOUR ROWS OF 3/16" DIAMETER PERFORATIONS.

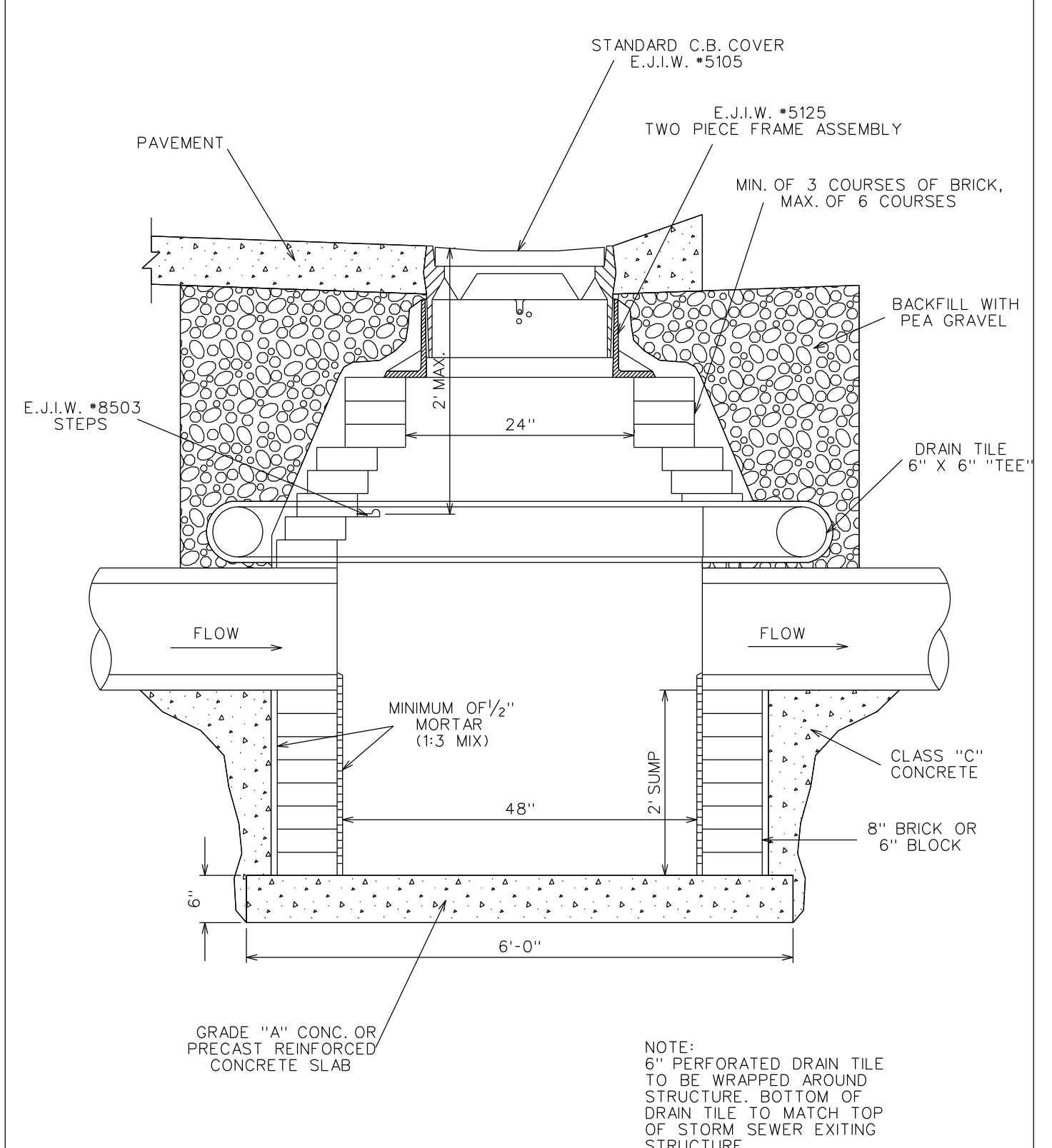
CITY OF STERLING HEIGHTS STANDARD DETAILS	EDGE DRAINS	DATE: 02/18/70	GLB
		REVISED: 1978,79,88	

SDSTM017



CITY OF STERLING HEIGHTS STANDARD DETAILS	STANDARD INLET BASIN	DATE: 01/16/70	GLB
		REVISED: 1978,79,80,88	

SDSTM012



CITY OF STERLING HEIGHTS STANDARD DETAILS	PAVEMENT CATCH BASIN	DATE: 01/19/70	GLB
		REVISED: 1977,78,79,80,88	

SDSTM007

MANHOLE MATERIALS

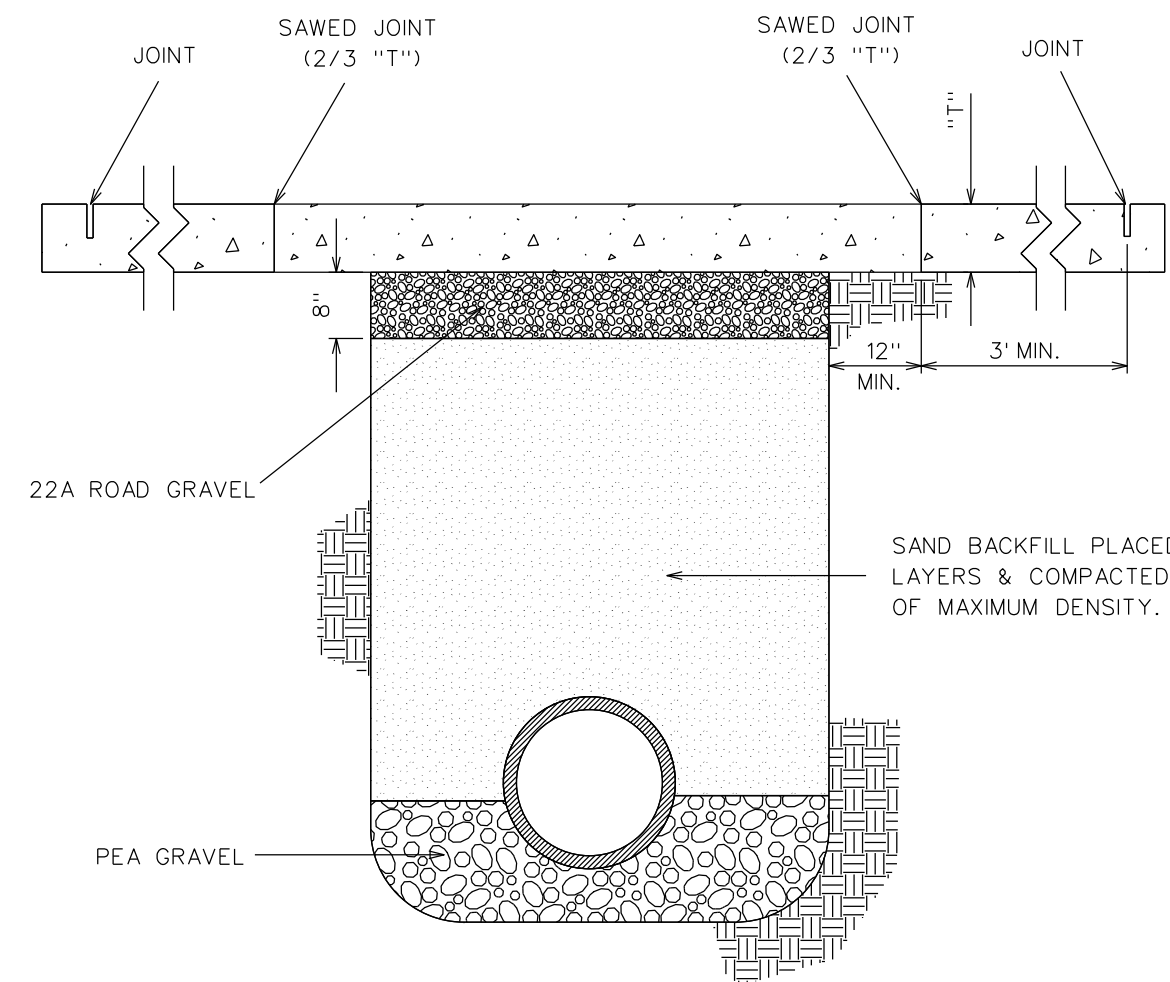
MATERIAL	DEPTH	THICKNESS
BRICK	0'-11'	8"
	11'-16'	12"
BLOCK	OVER 16'	16"
	OVER 16'	12"

TRENCH WIDTH REQUIREMENTS

PIPE SIZE	TRENCH WIDTH
6" TO 12"	30" MAXIMUM
15" TO 30"	OUTSIDE DIAMETER + 12"
36" TO 60"	OUTSIDE DIAMETER + 18"
OVER 60"	OUTSIDE DIAMETER + 24"

CITY OF STERLING HEIGHTS STANDARD DETAILS	MANHOLE MATERIALS & TRENCH WIDTH	DATE: 06/30/70	GLB
		REVISED:	

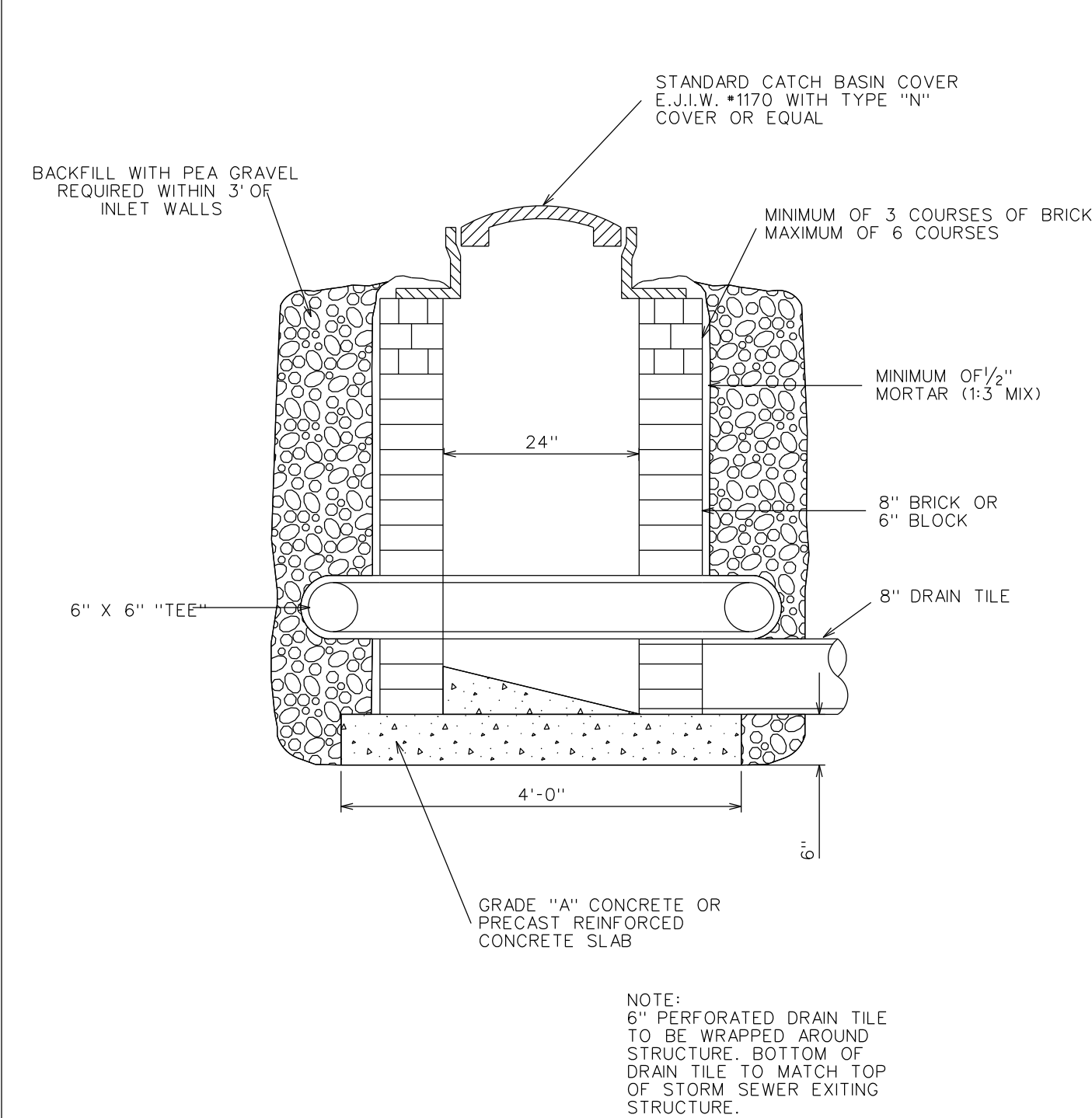
SDSAN500



- NOTES:
1. WHERE PAVEMENT REPLACEMENT DOES NOT IMMEDIATELY FOLLOW BACKFILL OPERATION, A TEMPORARY SURFACING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
  2. ASPHALT FOR REPLACEMENT SHALL MEET CURRENT M.D.O.T. SPECS. FOR BITUMINOUS AGGREGATE SURFACE COURSE 4.11.
  3. CONCRETE FOR REPLACEMENT SHALL MEET CURRENT M.D.O.T. SPECS. FOR HIGH EARLY STRENGTH CONCRETE.

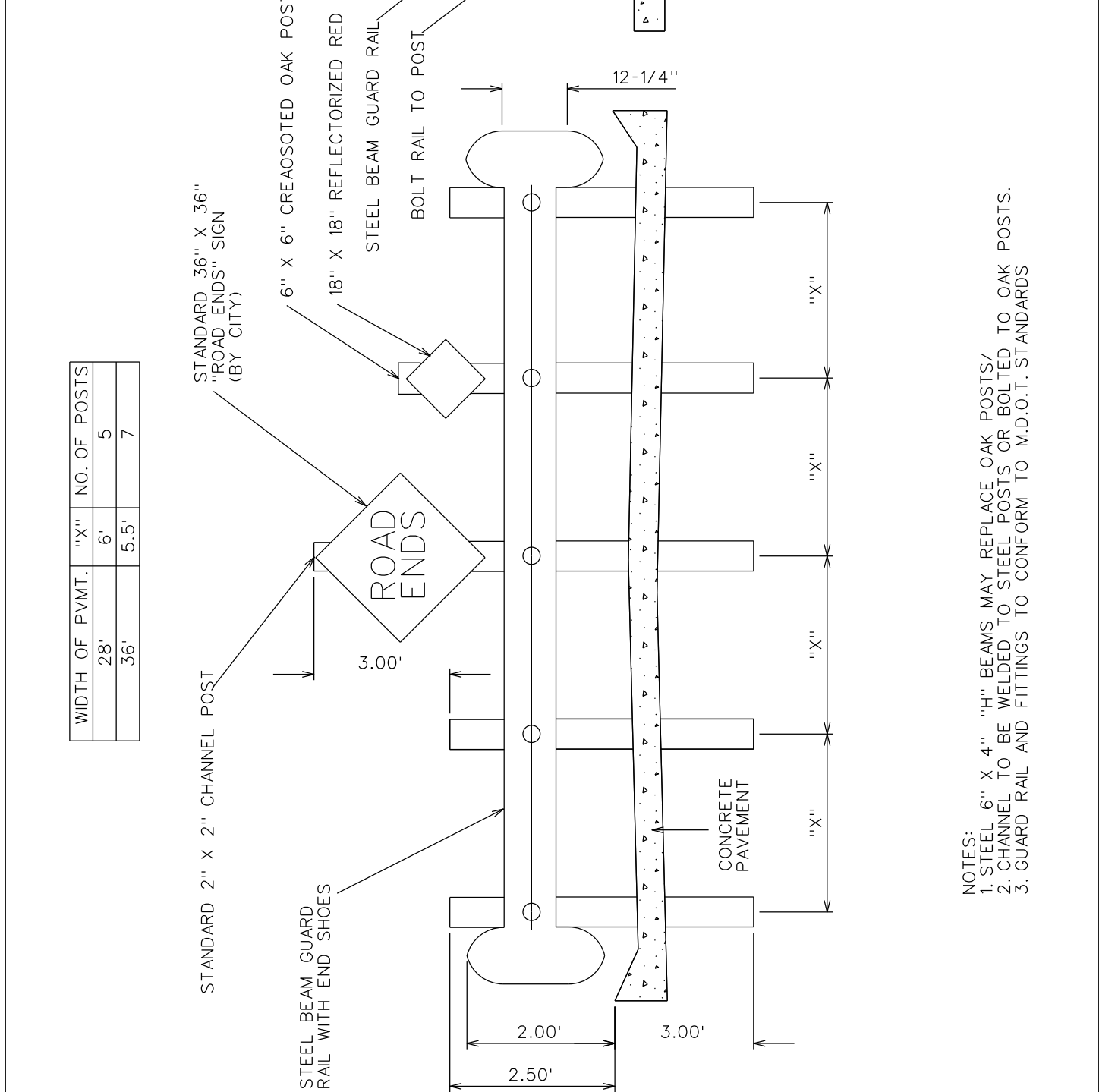
CITY OF STERLING HEIGHTS STANDARD DETAILS	PAVEMENT REPLACEMENT	DATE: 02/17/70	GLB
		REVISED:	

SDSTM015



CITY OF STERLING HEIGHTS STANDARD DETAILS	24" REAR YARD INLET	DATE: 01/12/81	DRJ
		REVISED: 03/11/88	

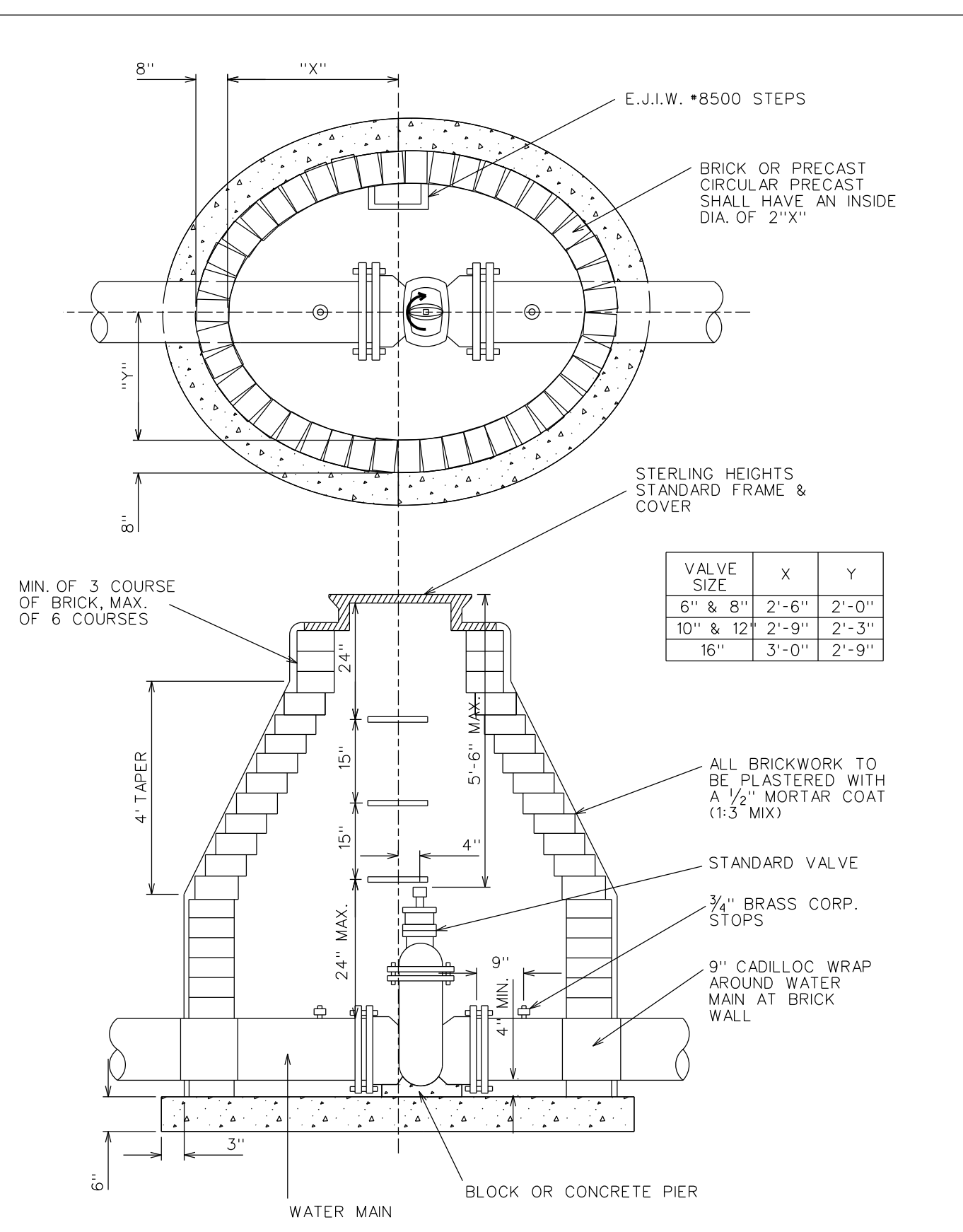
SDPAY010



CITY OF STERLING HEIGHTS STANDARD DETAILS	DEAD END BARRICADE	DATE: 01/20/70	GLB
		REVISED: 02/28/77	

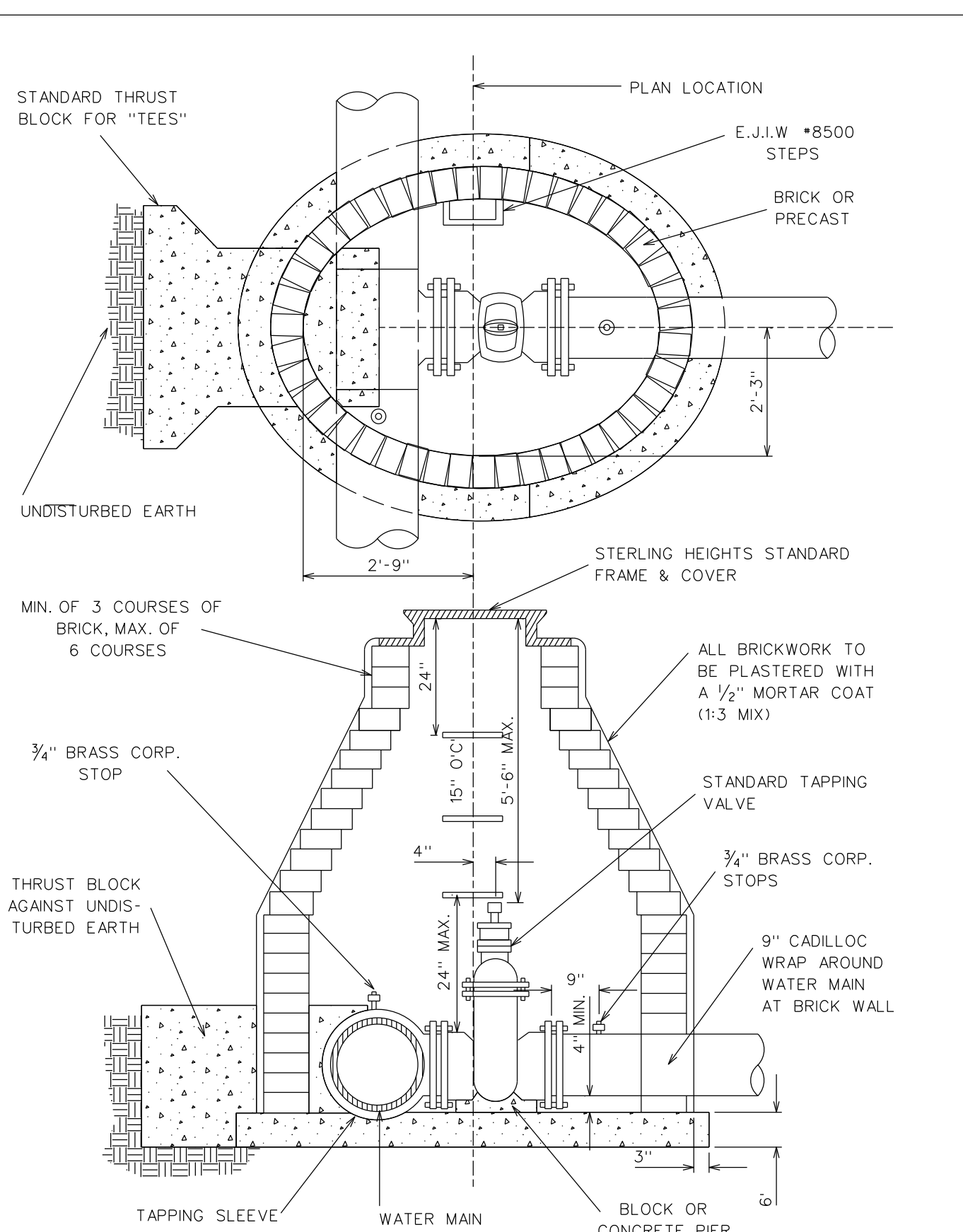
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DATE	DESCRIPTION	DATE: NOTED	CHECKED: GLB	40555 UTICA ROAD
		FIELD BOOK:	APPROVED: TRD	P.O. BOX 8009
		PAGE:	CITY ENGINEER	STERLING HEIGHTS, MI 48311-8009
				(586) 446-2489
PROJECT INFORMATION		STANDARD DETAILS		
LOCATION: CITY OF STERLING HEIGHTS		STORM 2 OF 2		
STATION:	C.P. NO.:	SECTION:	FILENAME: F:\DRAW\DETAILS\USHT05.DGN	SHEET 5 OF 2

SDWTRO11



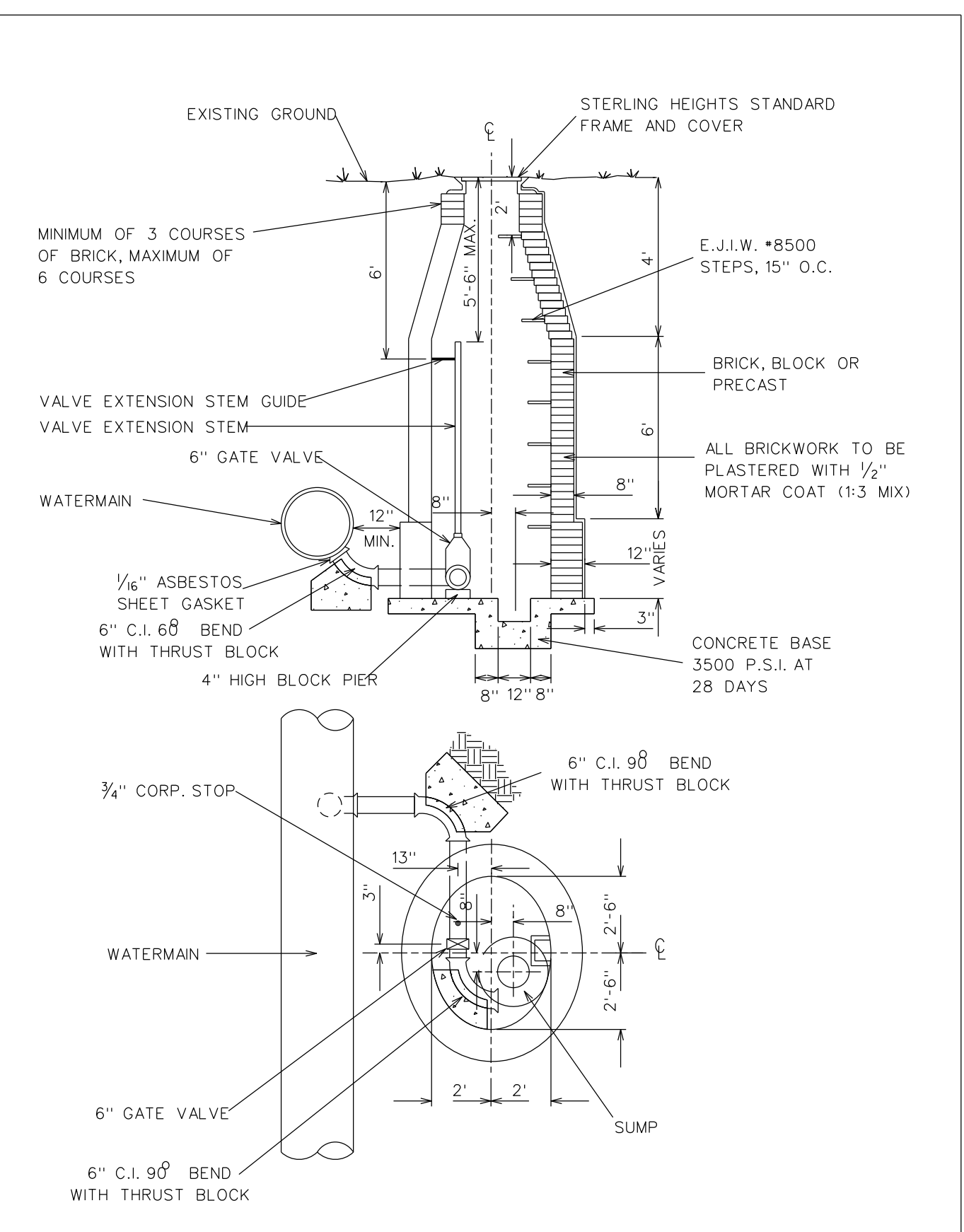
CITY OF STERLING HEIGHTS STANDARD DETAILS  
 GATE VALVE AND WELL  
 DATE: 12/17/69  
 REVISED:  
 GLB

SDWTRO05



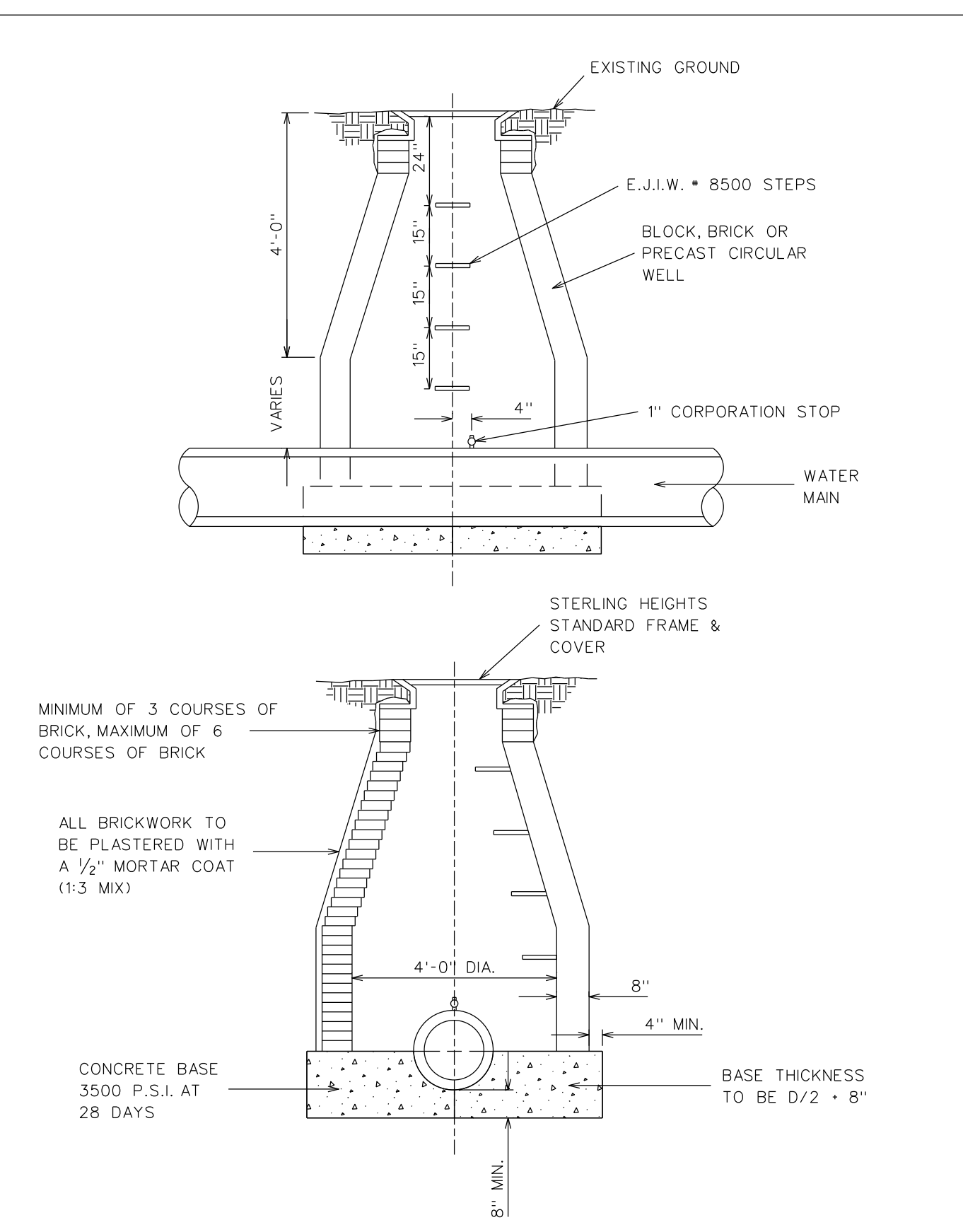
CITY OF STERLING HEIGHTS STANDARD DETAILS  
 TAPPING SLEEVE VALVE & GATE WELL  
 DATE: 01/07/70  
 REVISED: 02/23/77  
 GLB

SDWTRO06



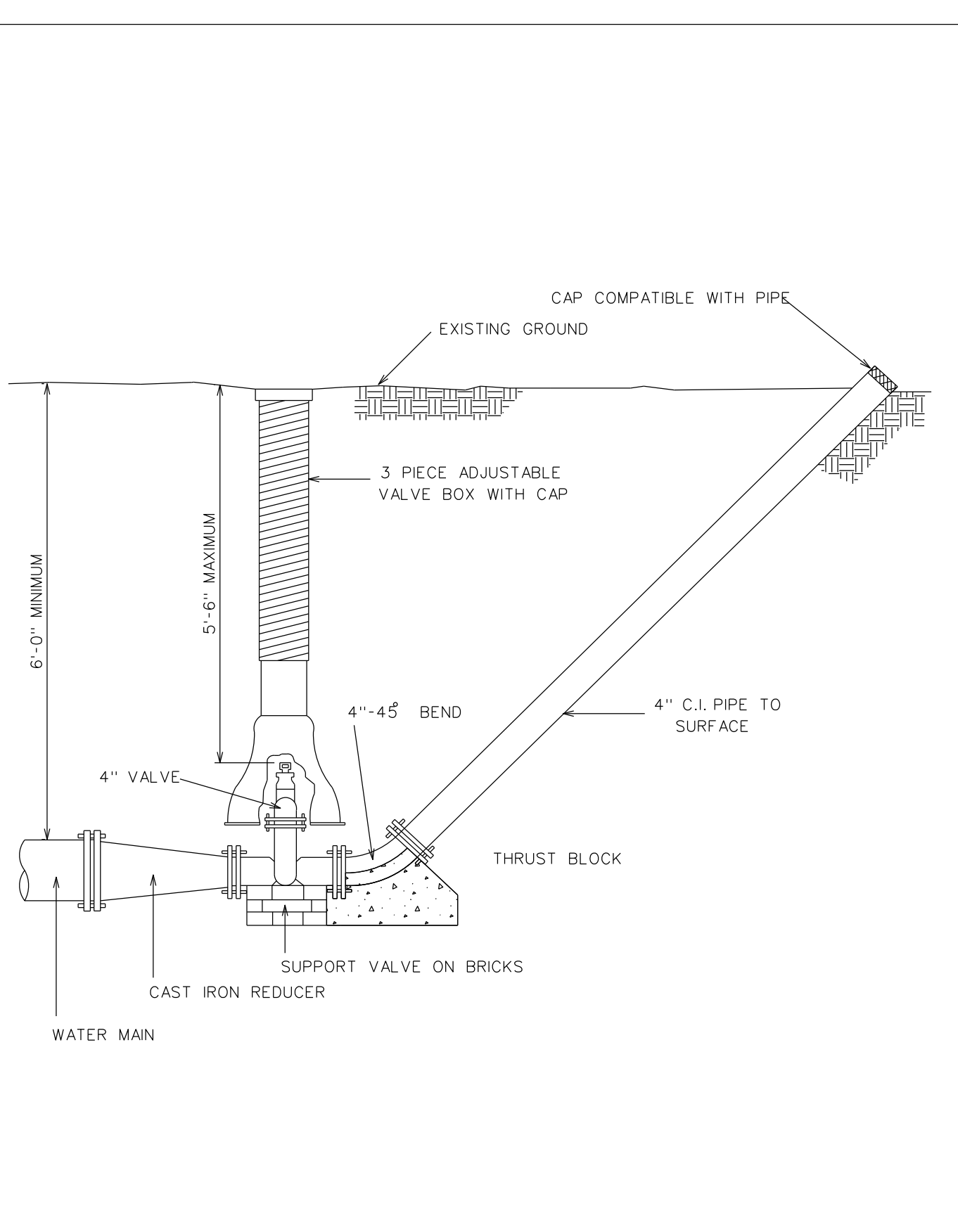
CITY OF STERLING HEIGHTS STANDARD DETAILS  
 BLOW-OFF AND WELL  
 DATE: 01/09/70  
 REVISED:  
 GLB

SDWTRO06



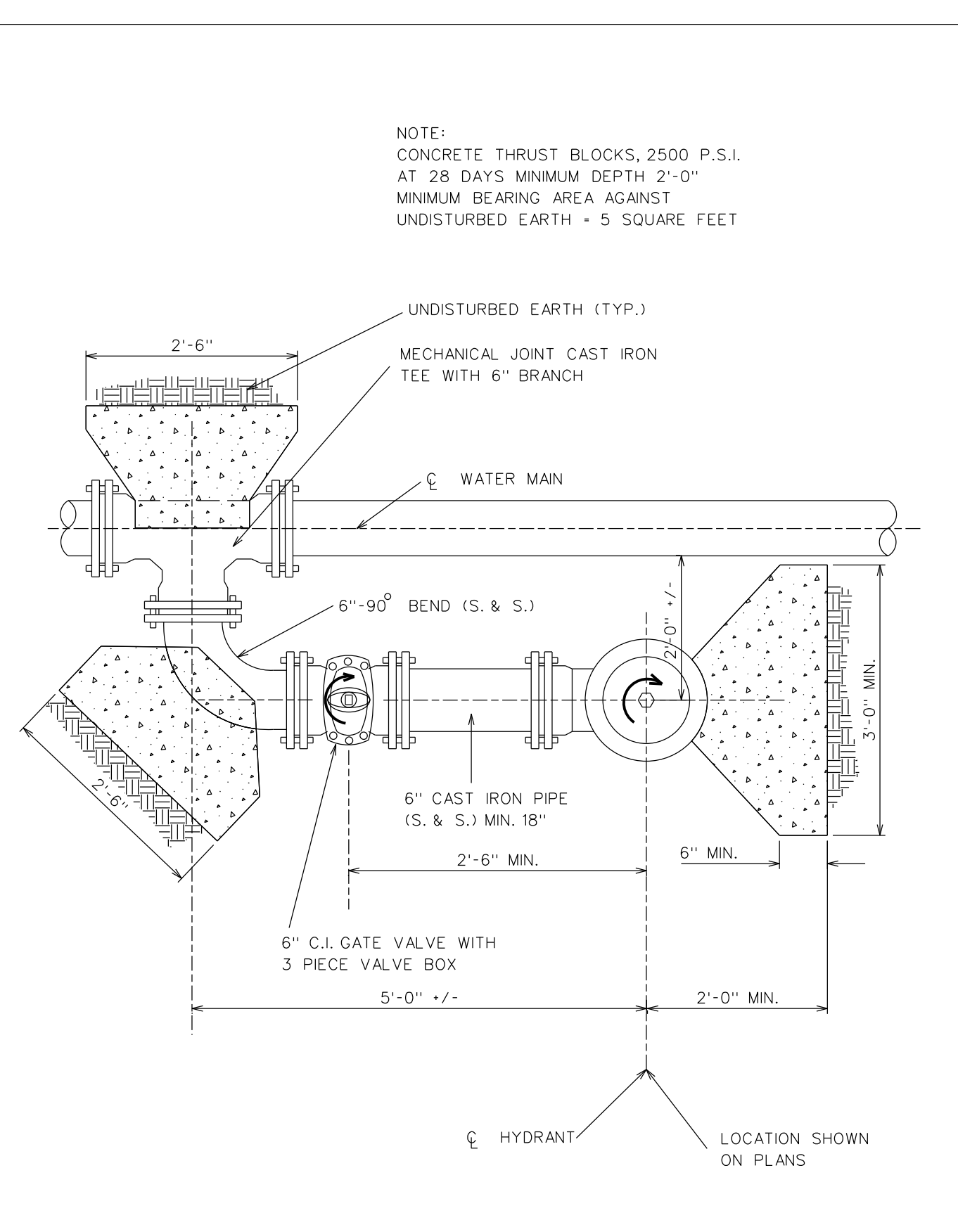
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 AIR RELIEF VALVE  
 DATE: 12/26/69  
 REVISED:  
 GLB

SDWTRO01



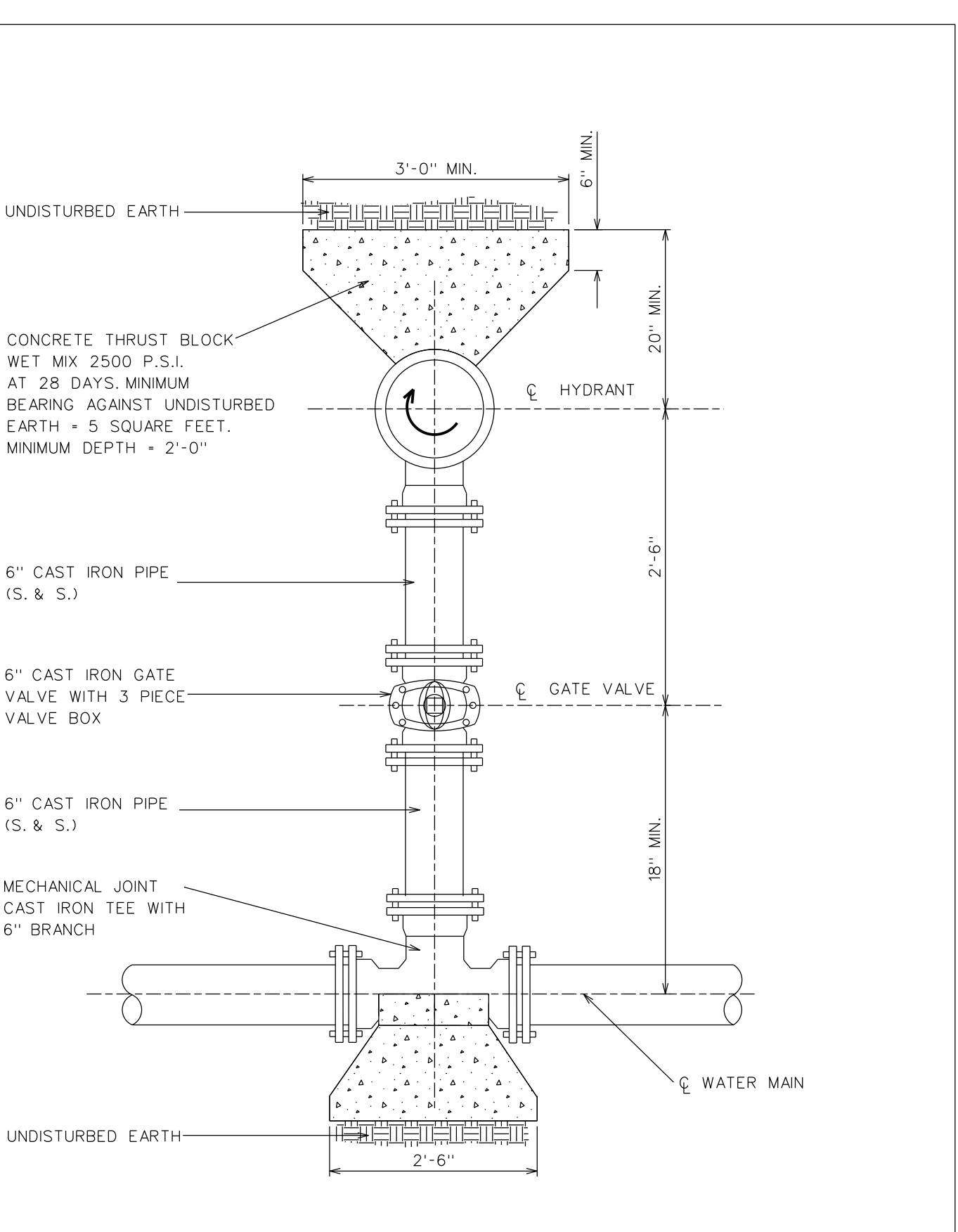
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 BLOW-OFF ASSEMBLY  
 DATE: 01/05/70  
 REVISED:  
 GLB

SDWTRO12



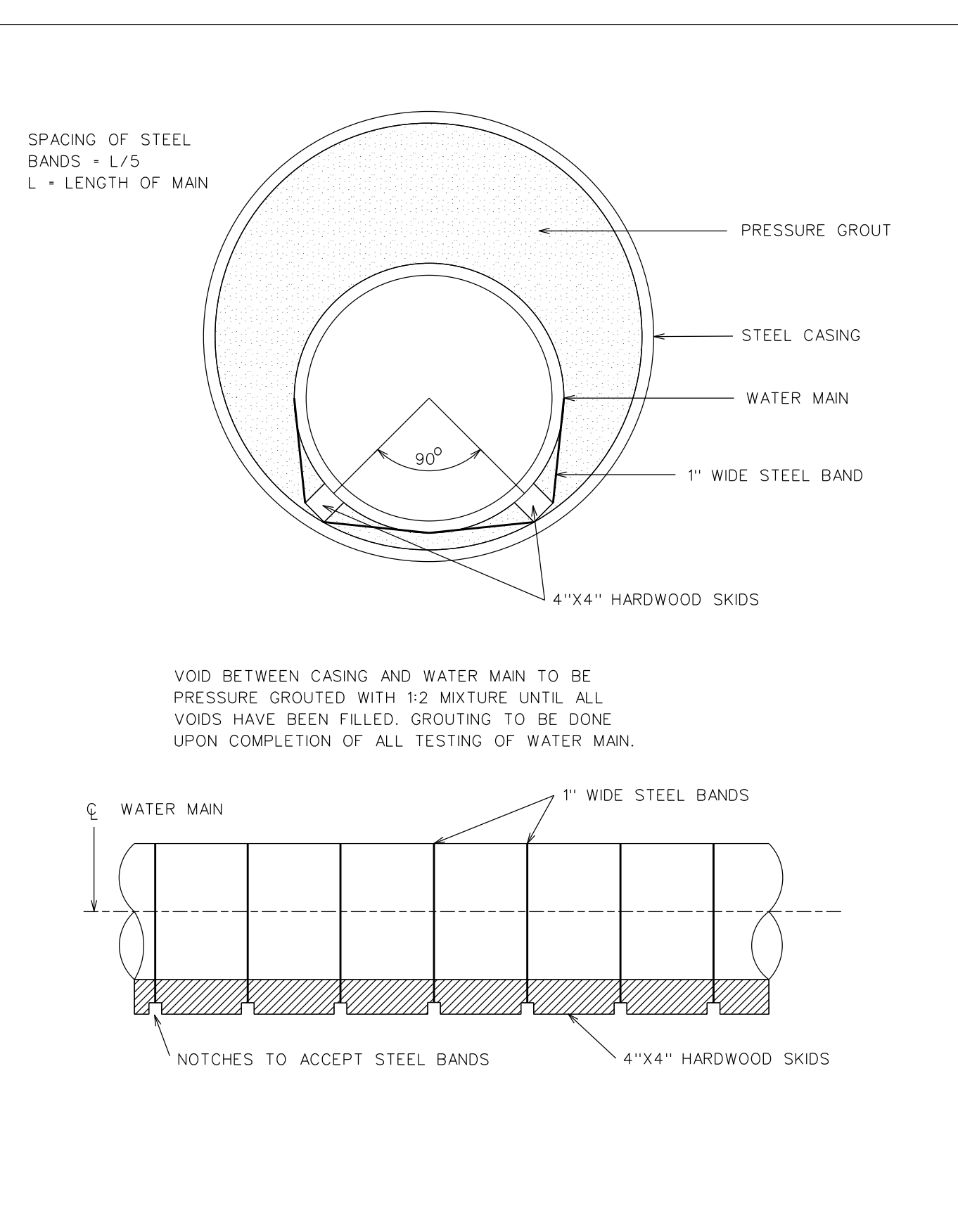
CITY OF STERLING HEIGHTS STANDARD DETAILS  
 "C" HYDRANT CONNECTION  
 DATE: 12/09/69  
 REVISED: 01/12/81  
 GLB

SDWTRO10



CITY OF STERLING HEIGHTS STANDARD DETAILS  
 "S" HYDRANT CONNECTION  
 DATE: 12/18/69  
 REVISED: 1977,81  
 GLB

SDWTRO13

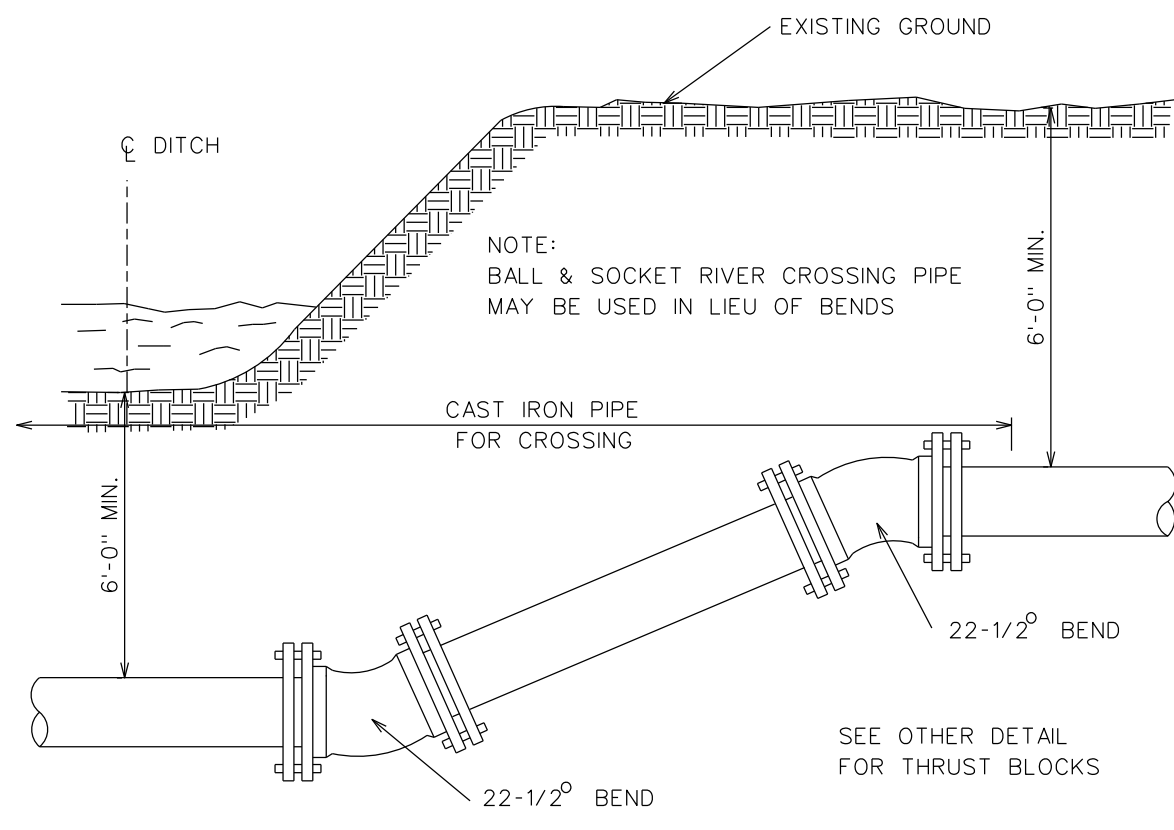


CITY OF STERLING HEIGHTS STANDARD DETAILS  
 WATER MAIN TUNNEL DETAIL  
 DATE: 12/11/69  
 REVISED:  
 GLB

REVISIONS		SCALE: 1" = 50'	DRAWN: DMW	CITY ENGINEER
DESCRIPTION	DATE	DATE: NOTED	CHECKED: GLB	CITY ENGINEER
		FIELD BOOK:	APPROVED: TRD	
CITY OF STERLING HEIGHTS 40555 UTICA ROAD P.O. BOX 8009 STERLING HEIGHTS, MI 48311-8009 (586) 446-2489				
PROJECT INFORMATION		STANDARD DETAILS		
LOCATION: CITY OF STERLING HEIGHTS		WATERMAIN 1 OF 2		
STATION:	SECTION:	SHEET 6 OF 2		
C.P. NO.:	FILENAME: F:\DRAW\DETAILS\USHT06.DWG			



SDWTR014

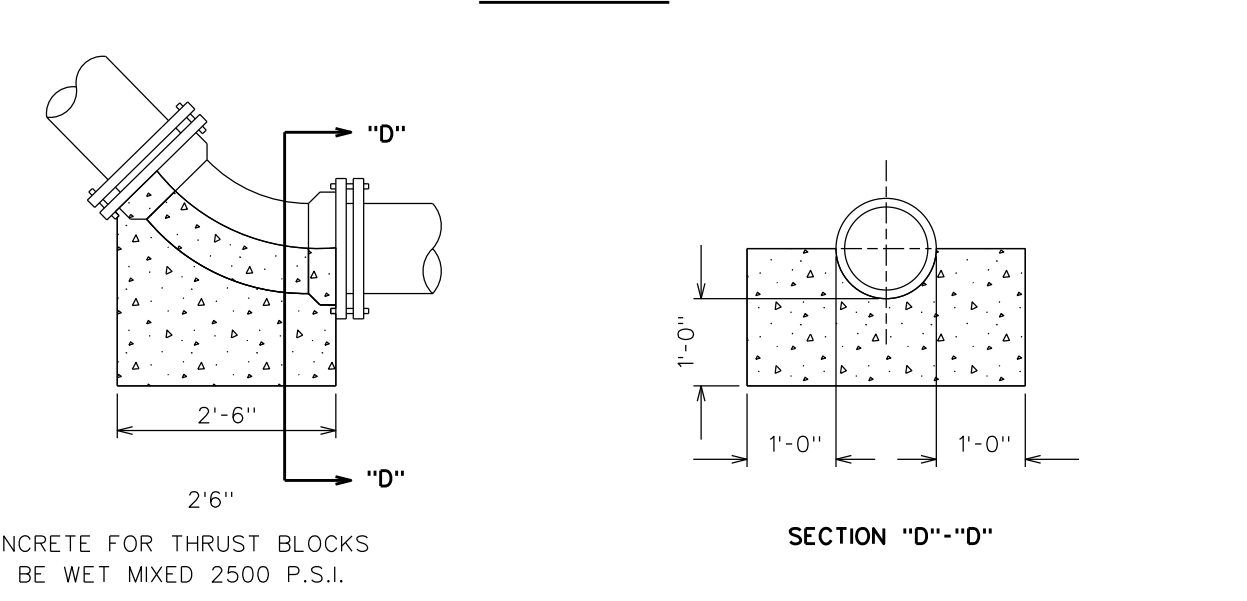
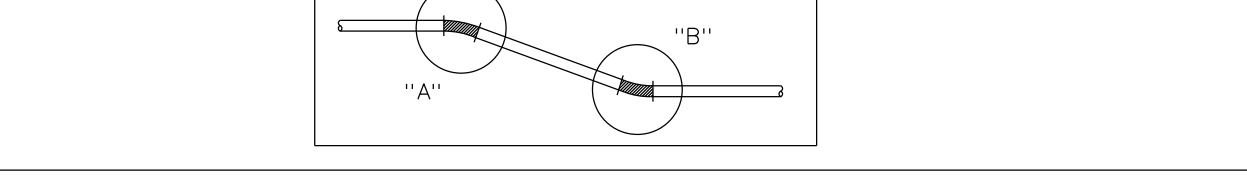
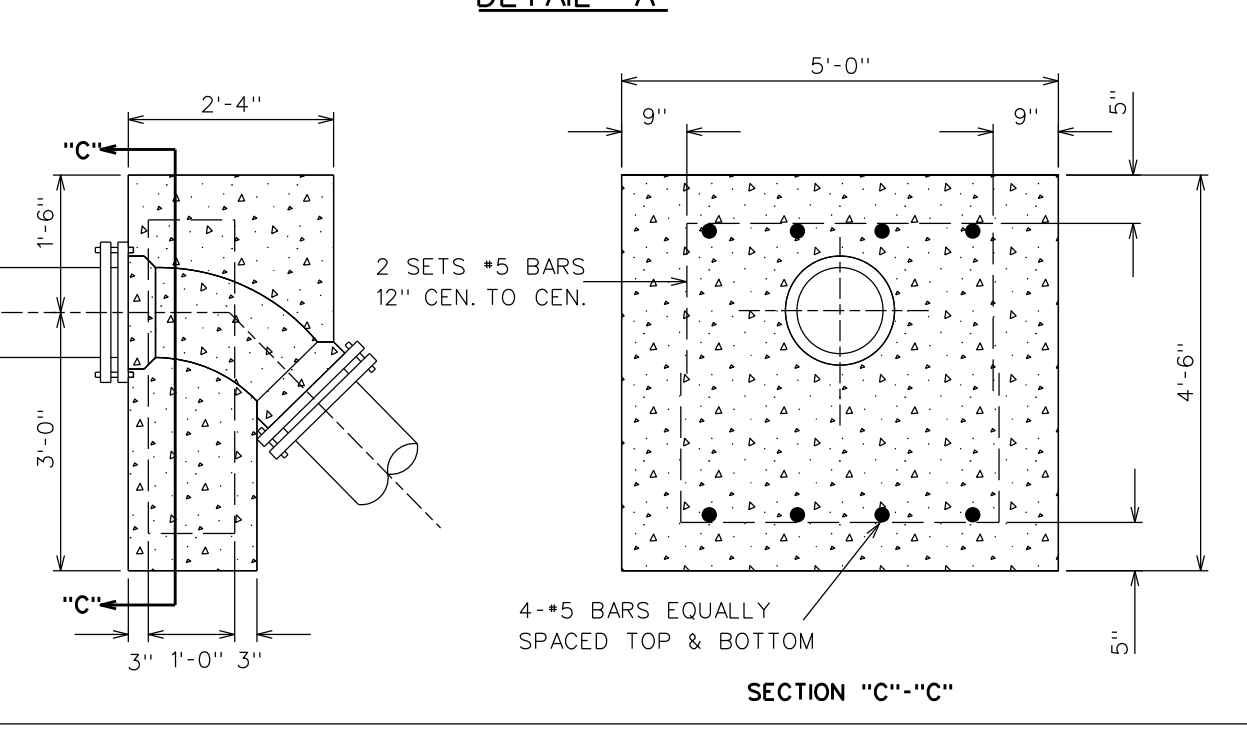


PIPE SIZE	MINIMUM BEARING AREA IN SQUARE FEET AGAINST UNDISTURBED EARTH			
	PLUG, CAP OR TEE	90 BEND	45 BEND	22-1/2 BEND
6" OR LESS	4.0	5.0	3.0	NONE
8"	6.0	8.33	4.66	NONE
12"	12.0	16.5	8.75	5.0
16"	20.0	30.0	16.0	8.33

IN MUCK, PEAT, AND UNSTABLE SOILS THRUST BLOCKS SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.

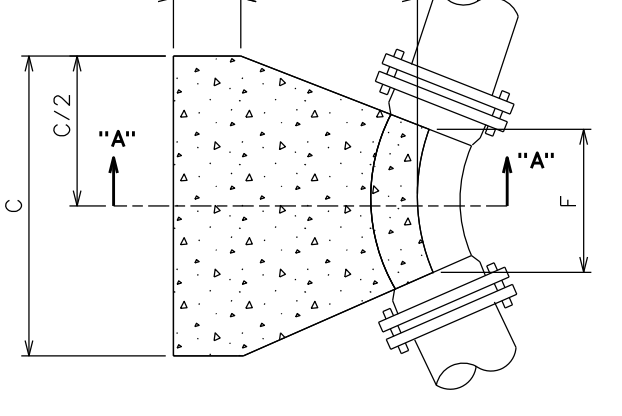
CITY OF STERLING HEIGHTS STANDARD DETAILS  
DITCH CROSSING THRUST BLOCKS  
DATE: 12/10/69  
REVISID:  
GLB

SDWTR003

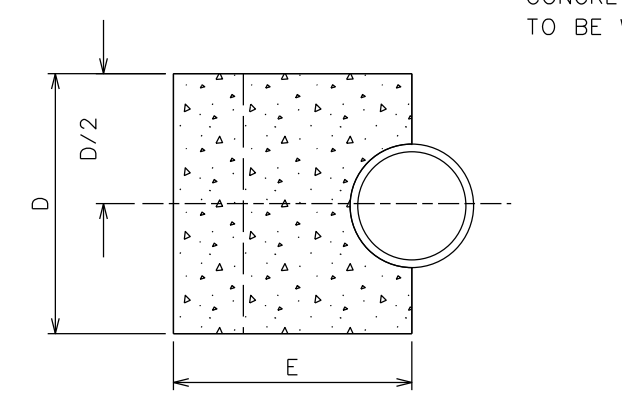


CITY OF STERLING HEIGHTS STANDARD DETAILS  
VERTICAL BEND THRUST BLOCKS FOR 8"-12" MAINS  
DATE: 12/12/69  
REVISID:  
GLB

SDWTR005

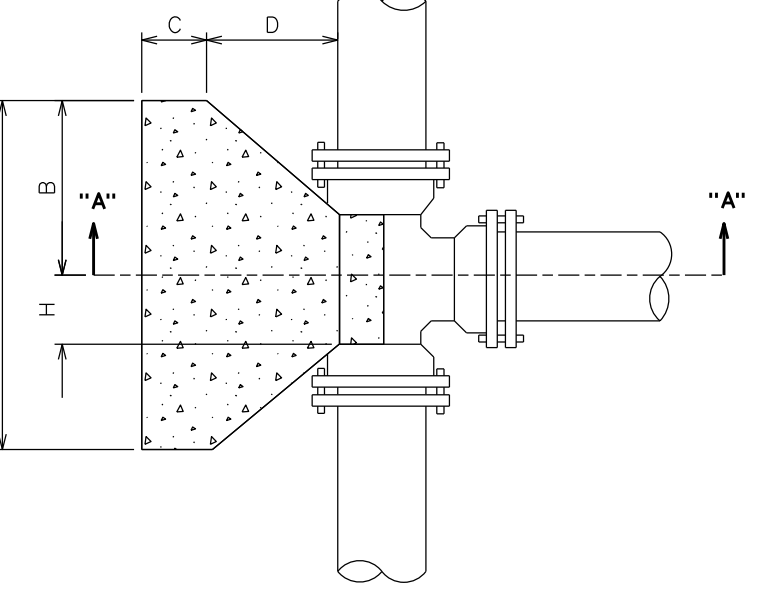


BEND SIZE	DIMENSION					
	A	B	C	D	E	F
6"-9 <sup>0</sup> / <sub>8</sub> "	8"	8"	2'-2"	1'-4"	1'-6"	8"
8"-9 <sup>0</sup> / <sub>8</sub> "	9"	1'-0"	3'-4"	2'-6"	1'-11"	1'-2"
12"-9 <sup>0</sup> / <sub>8</sub> "	9"	1'-4"	5'-6"	3'-0"	2'-4"	1'-8"
16"-9 <sup>0</sup> / <sub>8</sub> "	1'-0"	1'-8"	5'-10"	4'-0"	3'-0"	2'-9"
20"-4 <sup>5</sup> / <sub>8</sub> "	1'-0"	1'-0"	6'-0"	5'-0"	3'-0"	2'-8"
24"-4 <sup>5</sup> / <sub>8</sub> "	1'-0"	1'-10"	8'-0"	5'-0"	3'-0"	2'-6"
12"-22-1/2"	9"	1'-0"	2'-6"	2'-0"	2'-0"	1'-4"
16"-22-1/2"	1'-0"	1'-8"	3'-4"	2'-6"	3'-0"	1'-2"
16"-15"	9"	1'-0"	2'-6"	2'-0"	2'-0"	1'-4"

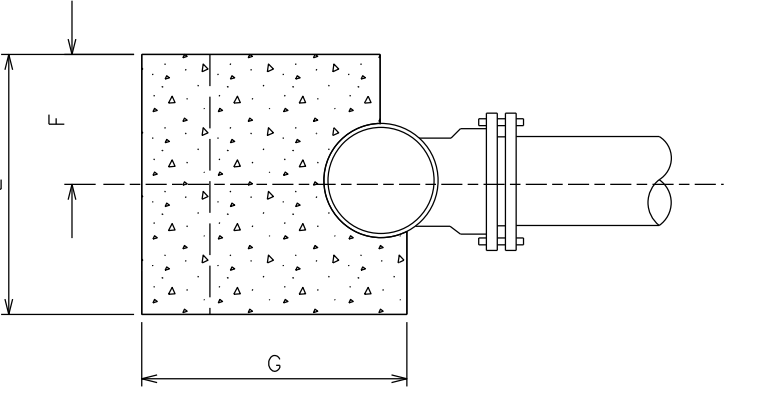


CITY OF STERLING HEIGHTS STANDARD DETAILS  
THRUST BLOCKS FOR BENDS  
DATE: 12/22/69  
REVISID:  
GLB

SDWTR004

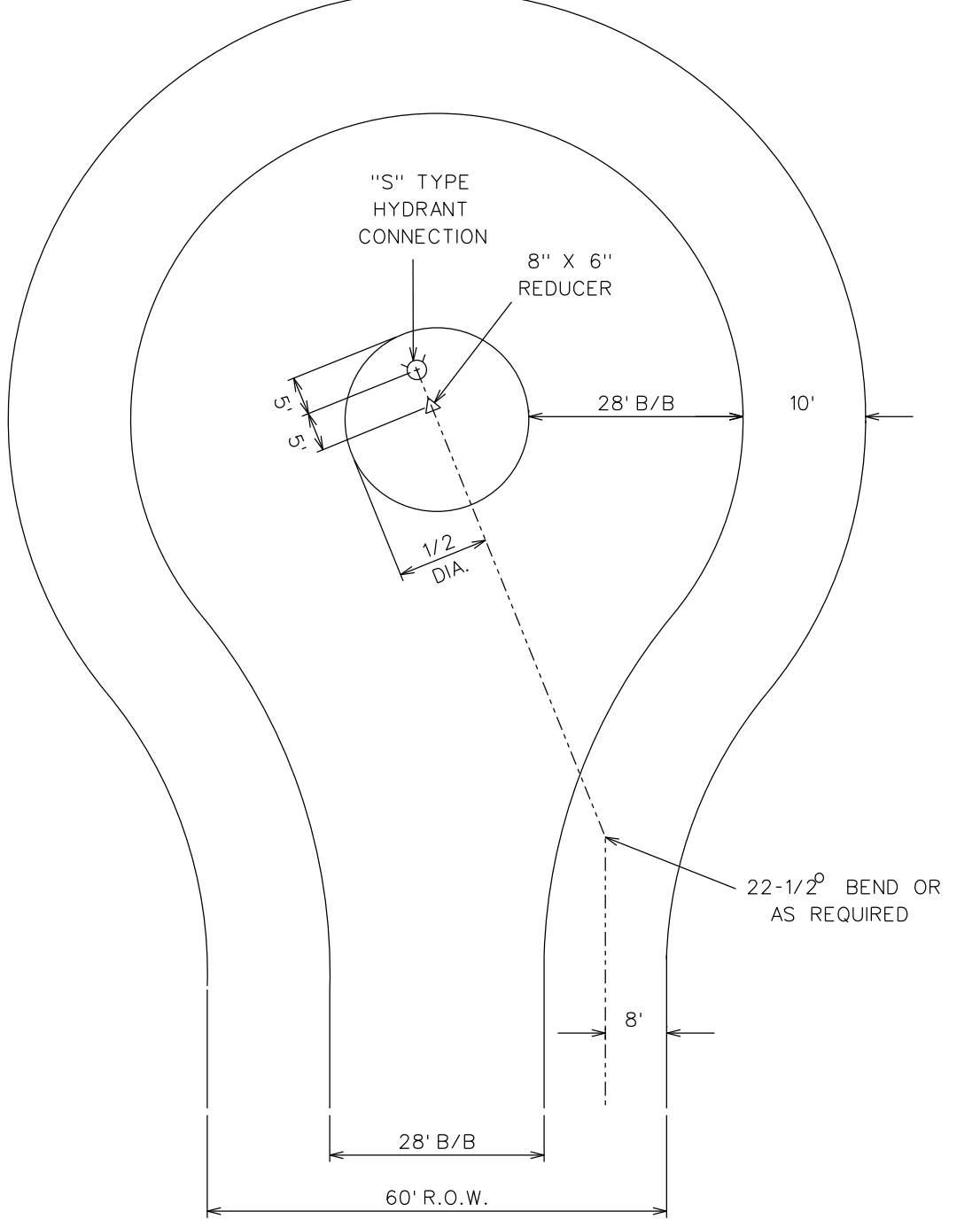


DIM.	TEE SIZE			
	24"X8"	12"X12"	16"X16"	16"X16"
A	3'-0"	4'-0"	4'-0"	5'-0"
B	1'-6"	2'-0"	2'-6"	1'-0"
C	9"	9"	9"	1'-0"
D	1'-0"	1'-4"	1'-8"	1'-8"
E	2'-0"	3'-0"	4'-0"	4'-0"
F	1'-0"	1'-6"	2'-0"	2'-0"
G	12"	2'-10"	3'-1"	3'-8"
H	16"	2'-9"	3'-1"	3'-8"
	24"	3'-3"	3'-7"	4'-2"
	12"	6"	8"	11"
	16"	6"	8"	11"



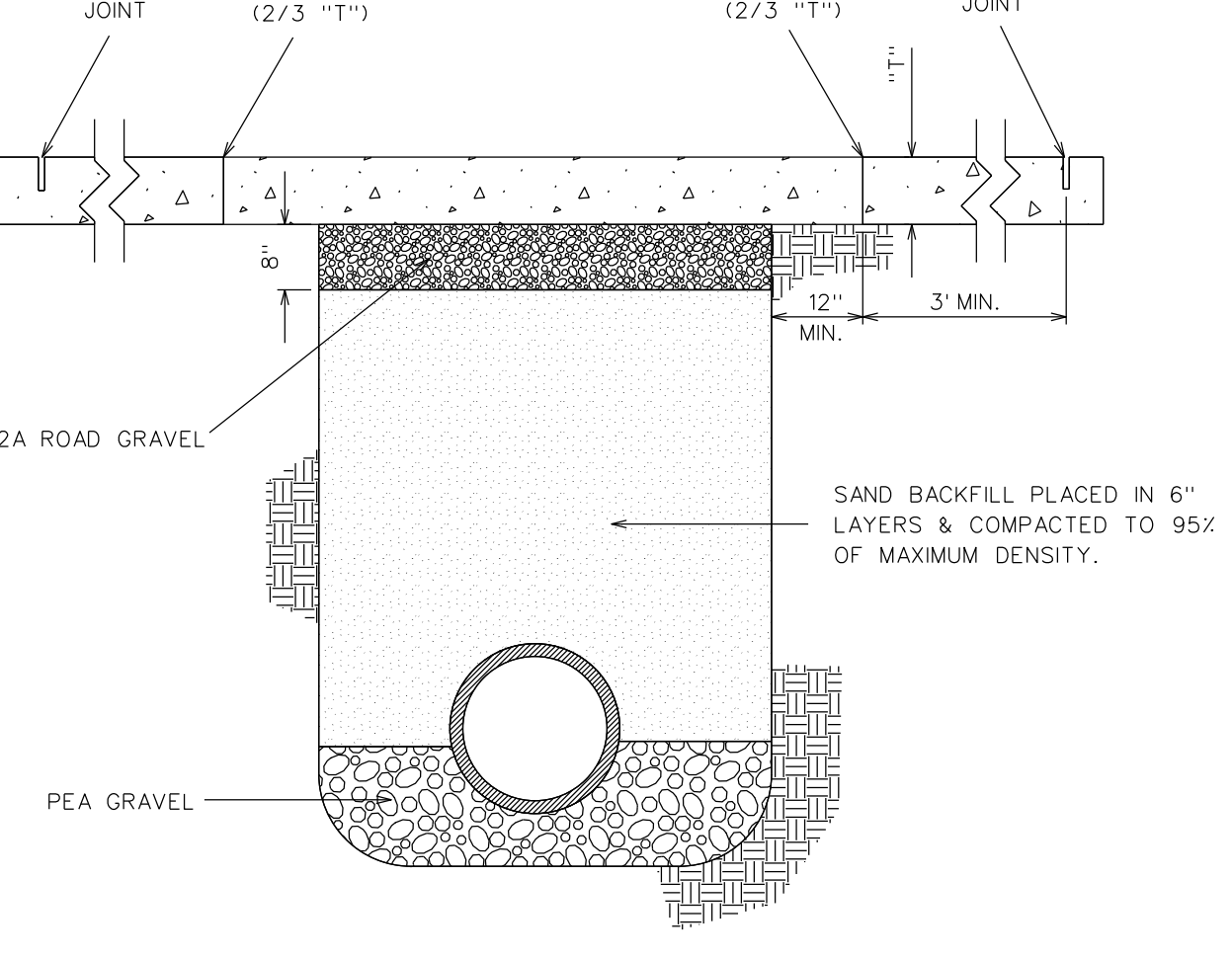
CITY OF STERLING HEIGHTS STANDARD DETAILS  
THRUST BLOCKS FOR TEES  
DATE: 12/15/69  
REVISID:  
GLB

SDWTR007



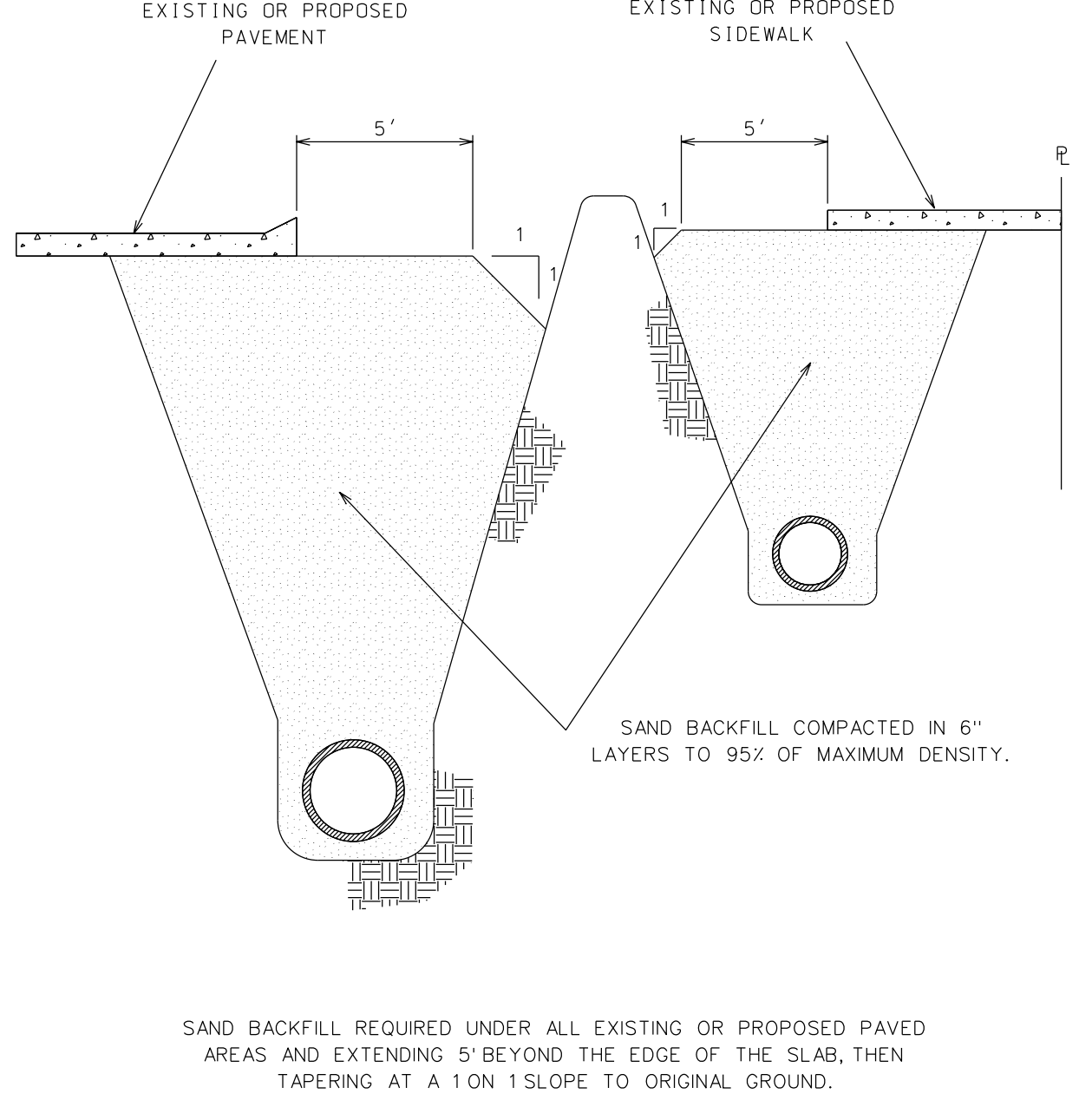
CITY OF STERLING HEIGHTS STANDARD DETAILS  
HYDRANT & WATERMAIN LOCATION IN CUL-DE-SAC  
DATE: 12/30/69  
REVISID: 02/24/77  
GLB

SDSAN500



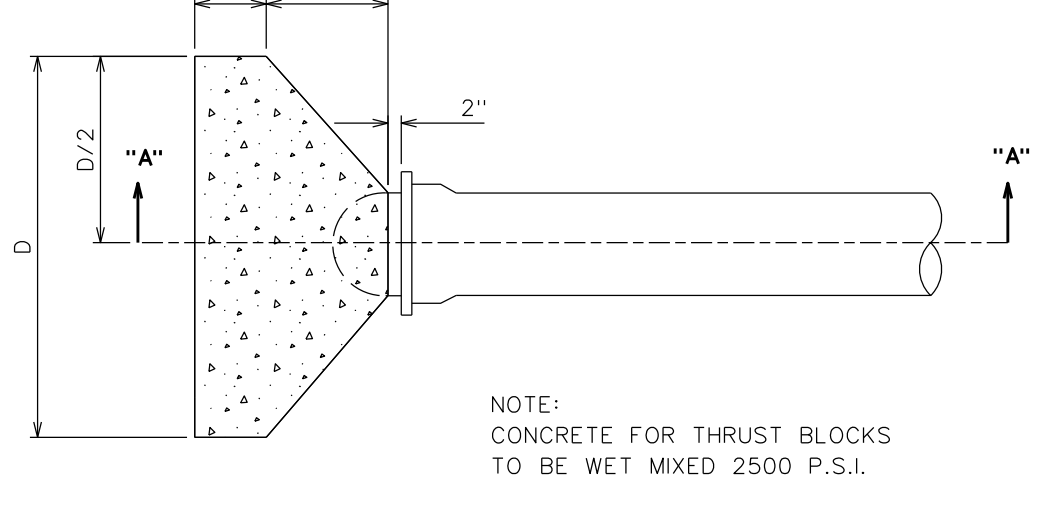
NOTES:  
1. WHERE PAVEMENT REPLACEMENT DOES NOT IMMEDIATELY FOLLOW BACKFILL OPERATION, A TEMPORARY SURFACING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.  
2. ASPHALT FOR REPLACEMENT SHALL MEET CURRENT M.D.O.T. SPECS. FOR BITUMINOUS AGGREGATE SURFACE COURSE 4.11.  
3. CONCRETE FOR REPLACEMENT SHALL MEET CURRENT M.D.O.T. SPECS. FOR HIGH EARLY STRENGTH CONCRETE.  
CITY OF STERLING HEIGHTS STANDARD DETAILS  
PAVEMENT REPLACEMENT  
DATE: 02/17/70  
REVISID:  
GLB

SDSAN300

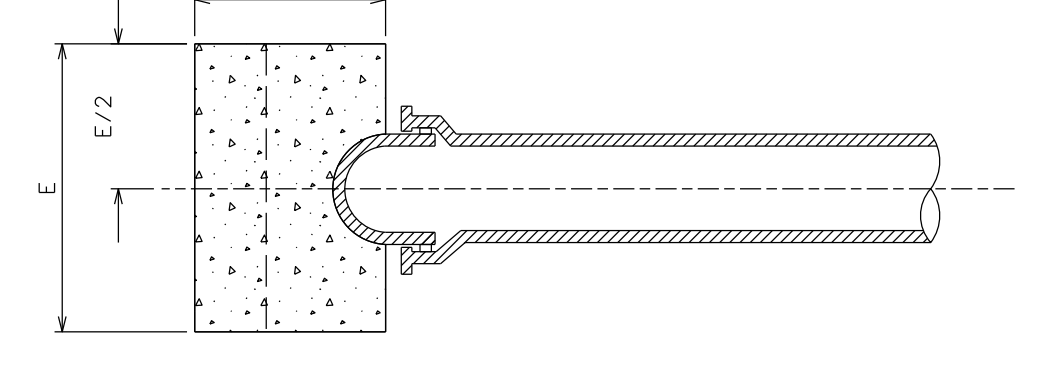


CITY OF STERLING HEIGHTS STANDARD DETAILS  
BACKFILL UNDER PAVED AREAS  
DATE: 02/19/70  
REVISID:  
GLB

SDWTR002



PLUG SIZE	DIMENSION				
	B	C	D	E	F
8"	9"	12"	3'-0"	2'-0"	1'-11"
12"	9"	14"	4'-0"	3'-0"	2'-1"
16"	1'-0"	1'-8"	6'-0"	4'-0"	2'-8"
20"	1'-3"	2'-0"	6'-6"	4'-6"	3'-3"
24"	1'-6"	2'-6"	7'-6"	5'-6"	4'-0"



CITY OF STERLING HEIGHTS STANDARD DETAILS  
THRUST BLOCKS FOR PLUGS  
DATE: 12/23/69  
REVISID:  
GLB

REVISIONS

DATE	DESCRIPTION

SCALE: 1" = 50'

DRAWN: DWM  
CHECKED: GLB  
APPROVED: TRD  
CITY ENGINEER

DATE: NOTED  
FIELD BOOK:  
PAGE:

PROJECT INFORMATION  
LOCATION: CITY OF STERLING HEIGHTS  
STATION:  
C.P. NO.:  
SECTION:  
FILENAME: F:\DRAW\DETAILS\USHT07.DWG

CITY OF STERLING HEIGHTS  
40555 UTICA ROAD  
P.O. BOX 8009  
STERLING HEIGHTS, MI 48311-8009  
(586) 446-2489

STANDARD DETAILS  
WATERMAIN 2 OF 2

SHEET  
2  
OF  
2

**LIST OF DRAWINGS** (Section revised June 29, 2017 as part of Addendum #1)

T001	Cover Sheet
T002	Sheet Index/Project Data
A001	Barrier Free Standards
A002	General Structural Notes
M0.0	Mechanical General Information
M7.1	Mechanical Details
M7.2	Mechanical Details
E0.0	Electrical General Information
E7.1	Electrical Details
SP01	Site Plan
SP02	Keyed Site Notes/Site Amenities
SP03	Partial Enlarged Site Plan
SP04	Partial Enlarged Site Plan
SP05	Partial Enlarged Site Plan - Sand Volleyball Courts, Basketball Court, and Pavilion #4
SP06	Partial Enlarged Site Plan - Mini Soccer Field and Pavilion #3
SP07	Partial Enlarged Site Plan - Pavilion #2 and Renovated Restroom Building
SP08	Partial Enlarged Site Plan - Splash Pad/Park and Pavilion #1
SP09	Partial Enlarged Site Plan - Farmers Market
SP10	Partial Enlarged Site Plan - Fire Pit Area and Pavilion #5
SP11	Partial Enlarged Site Plan - Amphitheater
SP12	Site Details
SP13	Site Details - Mini Soccer Field Details
SP14	Site Details - Sand Volleyball Court Details
SP15	Site Details - Splash Park Details
Civil	
C-0	Cover Sheet
C-1	Boundary / Topographic / Tree Survey
C-2	Boundary / Topographic / Tree Survey
C-3	Existing Structure Table
C-4	Demolition Plan
C-5	Demolition Plan
C-6	Dimensional Site Plan
C-7	Dimensional Site Plan
C-8	Paving & Grading Plan
C-9	Paving & Grading Plan
C-10	MDOT M0730a Detail
C-11	Utility Plan
C-12	Utility Plan
C-13	Storm and Sanitary Sewer Profiles
C-14	Soil Erosion / Sedimentation Control Plan
C-15	Soil Erosion / Sedimentation Control Plan
<b>1 of 1</b>	<b>City of Sterling Heights Standard Details Soil Erosion Plan</b>
<b>1 of 7</b>	<b>City of Sterling Heights Standard Details Notes</b>
<b>2 of 7</b>	<b>City of Sterling Heights Standard Details Sanitary</b>

- 4 of 7**      **City of Sterling Heights Standard Details Storm**
- 5 of 7**      **City of Sterling Heights Standard Details Storm**
- 6 of 7**      **City of Sterling Heights Standard Details Watermain**
- 7 of 7**      **City of Sterling Heights Standard Details Watermain**

- Mechanical - Site
- MD0.1      Mechanical Site Demolition Plan
- MD0.2      Mechanical Site Demolition Plan
- M0.1      Mechanical Site Plan - New Work Plan
- M0.2      Mechanical Site Plan - New Work Plan

- Electrical - Site
- ED0.1      Electrical Site Demolition Plan
- ED0.2      Electrical Site Demolition Plan
- E0.1      Electrical Site New Work Plan
- E0.2      Electrical Site New Work Plan

- Landscape
- LS-1      Overall Landscape Planting View
- LS-2      Landscape Planting Detail
- LS-3      Landscape Planting Detail
- LS-4      Plant Material List, Planting Details, and Landscape Notes
- LS-5      Landscape Planting Detail - Paving Pattern

- Pavilion #1, 4 & 5
- PAV145-A1      Floor Plan, Foundation Plan and Details

- Pavilion #2
- PAV2-A1      Floor Plan, Foundation Plan and Details
- E1.1      Electrical New Work Plan

- Pavilion #3
- PAV3-A1      Floor Plan, Foundation Plan and Ceiling Plan
- PAV3-A2      Building Elevations
- PAV3-A3      Wall Sections
- PAV3-A4      Interior Elevations
- M1.2      Mechanical New Work Plans
- E1.2      Electrical New Work Plan

- Amphitheater
- AMP-A1.1      Foundation Plan
- AMP-A1.2      Floor Plan
- AMP-A1.3      Reflected Ceiling Plan
- AMP-A1.4      Roof Plan
- AMP-A1.5      Roof Framing Plan
- AMP-A1.6      Roof Framing Plan
- AMP-A3.1      Building Elevations
- AMP-A3.2      Building Elevations

AMP-A4.1	Building Sections
AMP-A5.1	Wall Sections
AMP-A5.2	Wall Sections
AMP-A5.3	Wall Sections
AMP-A6.1	Stair and Ramp Details
AMP-A6.2	Ramp Details
<b>AMP-A7.0</b>	<b>Floor Finish Plan</b>
<b>AMP-A7.1</b>	<b>Room Schedule and Door Schedule</b>
M2.1	Plumbing New Work Plan
M2.2	Sheet Metal New Work Plan
E2.1	Electrical New Work Plan
	Farmer's Market
FM-A1.0	Foundation Detail & General Structural Notes
FM-A1.1	Foundation Plan
FM-A1.2	Floor Plan
FM-A1.3	Reflected Ceiling Plan
FM-A1.4	Roof Plan
FM-A2.1	Enlarged Floor Plan
FM-A3.1	Building Elevations
FM-A3.2	Building Elevations
FM-A4.1	Building Sections
FM-A5.1	Wall Sections
FM-A7.1	Door Schedule
FM-A8.1	Interior Elevations
M3.1	Plumbing New Work Plan
M3.2	Sheet Metal New Work Plan
E3.1	Electrical New Work Plan
	Ticket Booth
TB-A1	Floor Plan, Foundation Plan, Reflected Ceiling Plan, Roof Plan and Structural Notes
TB-A2	Building Elevations and Sections
TB-A3	Wall Sections and Details
M4.1	Mechanical New Work Plan (Splash Park)
M4.2	Mechanical New Work Plan
E4.1	Electrical New Work Plans (Splash Park)
	Renovated Restroom Building
RRB-D1	Demolition Floor Plan and Demolition Reflected Ceiling Plan
RRB-D2	Demolition Building Elevations
RRB-A1	Floor Plan and Reflected Ceiling Plan
RRB-A2	Door and Finish Schedule
RRB-A3	Building Elevations
RRB-A4	Building Sections
RRB-A5	Wall Sections
RRB-A6	Interior Elevations
RRB-A7	Interior Elevations
MD5.1	Mechanical - Demolition Plan

M5.1	Plumbing New Work Plan
M5.2	Sheet Metal New Work Plan
ED5.1	Electrical Demolition Plan
E5.1	Electrical New Work Plan



**BID PROPOSAL FORM** (Section revised June 29, 2017 as part of Addendum #1)

**Project:**

**City of Sterling Heights Parks & Recreation  
Dodge Park Improvements**

**Owner:**

**City of Sterling Heights  
40555 Utica Road  
Sterling Heights, MI 48313**

**SUBMITTING CONTRACTOR:**

(Name) \_\_\_\_\_

(Address 1) \_\_\_\_\_

(Address 2) \_\_\_\_\_

(Telephone) \_\_\_\_\_ (Fax) \_\_\_\_\_

(email) \_\_\_\_\_ (Date) \_\_\_\_\_

**BIDS WILL BE RECEIVED UNTIL:**

2:30 p.m. local time, Tuesday, July 11, 2017 by the City of Sterling Heights City Clerk's Office.

**BIDS WILL BE PUBLICLY OPENED & READ AT:**

2:30 p.m. local time, Tuesday, July 11, 2017 in the City of Sterling Heights Council Chambers.

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**TOTAL BASE BID AMOUNT:**

The undersigned, as bidder, hereby declares this bid is made in good faith without fraud or collusion with any persons bidding, and that he/she is familiar with the location of the work described herein and the conditions under which it must be completed. He/she also declares that he/she has carefully examined the Contract Documents which he/she understands and accepts as sufficient for the purpose, and agrees that he/she will contract with the Owner to furnish all labor, materials, tools and equipment necessary to do all the work specified and prescribed herein and will accept in full payment therefore the sum of:

\_\_\_\_\_ Dollars.

(Sum to be written out)

\$ \_\_\_\_\_

**ADDENDA:**

The Bidder acknowledges the following Addenda, covering revisions to the drawings or specifications and the cost, if any, of such revisions has been included in the quoted proposal:

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

**BID BREAKDOWN:**

Provide itemized pricing as outlined on the following pages. The values of the items are to be included in your base bid.

NO.	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	<b>SITE IMPROVEMENTS</b>				
1.	Remove Concrete	3600	SYD		
2.	Remove Curb and Gutter	4250	LF		
3.	Remove Handicap Parking Sign	17	EA		
4.	Remove Light Pole	17	EA		
5.	Remove Pavilion - small	2	EA		
6.	Remove Pavilion - large	2	EA		
7.	Remove Tree - 6"-12" Diameter	35	EA		
8.	Remove Tree - 12"-24" Diameter	18	EA		
9.	Remove Tree - 24"-36" Diameter	4	EA		
10.	Remove Asphalt	2,300	SY		
11.	Remove DTE and Water Hookup	12	EA		
12.	Remove Electrical Post	2	EA		
13.	Remove Electrical Panel and Canopy	1	EA		
14.	Remove Volleyball Poles	6	EA		
15.	Remove Horseshoe Pit	2	EA		
16.	Remove Bench	3	EA		
17.	Remove Hose Bib at Pavilions	2	EA		
18.	Remove Swing Sets	2	EA		
19.	Remove Jungle Gym	1	EA		
20.	Remove Basketball Court including Fence and Lighting	1	EA		
21.	Remove Chain Link Fence	20	LF		
22.	Pulverize Ex. Asphalt	17,200	SYD		
23.	HMA, 1100L (2")	2,800	TONS		
24.	HMA, 1300T (2")	2,800	TONS		
25.	21AA Crushed Concrete, Aggregate Base (C.I.P.)	1,075	CY		
26.	Fill, Pulverized Material, Parking, Drive, and Path	23,750	SYD		
27.	Subgrade Preparation	23,750	SYD		
28.	6" Concrete Curb and Gutter 'A'	675	LF		
29.	6" Concrete Curb and Gutter 'B'	3,510	LF		
30.	4" Concrete Sidewalk	21,750	SF		
31.	Handicap Parking Sign	17	EA		
32.	Pavement Markings	1	LS		
33.	Fill	1,000	CY		
34.	Excavation	1,000	CY		
35.	Subgrade Undercut	250	CY		
36.	Mass Grading	1	LS		

37.	12" C-76, Class IV, Storm Sewer Pipe	501	LF		
38.	Connect to Ex. Storm Manhole	4	EA		
39.	4' Dia. Catch Basin with 2' Sump	4	EA		
40.	Replace Structure Cover, Beehive	1	EA		
41.	Adjust Ex. Storm Structure RIM	7	EA		
42.	8" PVC, SCH 40, Storm Sewer	42	LF		
43.	6" PVC, SCH 40, Sanitary Sewer	706	LF		
44.	Sanitary Cleanout	9	EA		
45.	Sanitary Sewer Tap/Connection	4	EA		
46.	Adjust Ex. Sanitary Structure RIM	4	EA		
47.	Sanitary Manhole	2	EA		
48.	10" PVC Truss, Sanitary Sewer	212	LF		
49.	Directional Drill 10" Sanitary Sewer	47	LF		
50.	1" Type 'K' Copper Building Service	560	LF		
51.	Relocate 6" Hydrant Assembly	1	EA		
52.	1" Stop Box	4	EA		
53.	Water Main Connection	6	EA		
54.	Adjust Ex. Water Main Structure RIM	1	EA		
55.	8" Tapping Sleeve, GV in Well	2	EA		
56.	6" Hydrant Assembly	1	EA		
57.	6" D.I. CL54 Water Main	22	LF		
58.	8" D.I. CL54 Water Main	534	LF		
59.	Directional Drill 8" Water Main	43	LF		
60.	Soil Erosion, Silt Fabric Fencing	2,100	LF		
61.	Soil Erosion, Inlet Filter	28	EA		
62.	Soil Erosion, Temporary Crushed Concrete Drive	175	SYD		
63.	Traffic Control	1	LS		
64.	Volleyball Sand	815	CY		
65.	#57 Gravel, Volleyball court base	407	CY		
66.	Volleyball Subsurface Drainage System	1	LS		
67.	Volleyball Edging	533	LF		
68.	#8 Pea Gravel, Volleyball Edge	4	CY		
69.	Volleyball Net System	4	EA		
70.	Soccer Kickboards	1	LS		
71.	Soccer Protection Netting	1	LS		
72.	Soccer Goals	2	EA		
73.	Soccer Synthetic Turf and Base	1	LS		
74.	Soccer Subsurface Drainage System	1	LS		
75.	Concrete Curb at Soccer	382	LF		
76.	Swivel Grate ADA Grille	4	EA		

77.	Splash Park Landscape Wall	275	LF		
78.	Splash Park Fence Wall	300	LF		
79.	Splash Park Fence Piers	15	EA		
80.	Splash Park Steel Fence	285	LF		
81.	Splash Park Steel Fence Gates	4	EA		
82.	Splash Park Seat Wall	204	LF		
83.	Splash Park Synthetic Landscape Turf	2,570	SF		
84.	Large Park Grille	4	EA		
85.	Hot Coal / Ash Bin	4	EA		
86.	Maxiforce Removable Bollard	5	EA		
87.	Maxiforce Fixed Bollard	3	EA		
88.	Gas Fire Pits	2	EA		
89.	Horseshoe Pits	2	EA		
90.	Replace Parking Lot Light	12	EA		
91.	New Parking Lot Light	8	EA		
92.	Sport Court Light	8	EA		
93.	Pathway Bollard Light	5	EA		
94.	Site Electrical Panel re-fed	1	EA		
95.	Electrical Post reconnected	5	EA		
96.	Farmers Market / Market Plaza Decorative 8" Concrete	9,600	SF		
97.	Farmers Market / Market Plaza Decorative 6" Concrete	20,065	SF		
98.	Farmers Market / Market Plaza Decorative 4" Concrete	5,690	SF		
99.	Landscape Wall at Market Plaza	132	LF		
100.	Color Video / Audio Recording of Project Area	1	LS		

**Site Improvements Subtotal**

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LANDSCAPING							
KEY	BOTANICAL NAME	COMMON NAME	SIZE	QTY	UNIT PRICE	AMOUNT	
DECIDUOUS TREES							
1.	AS	Acer S. 'Majesty'	Majesty Sugar Maple	3" BB	4		
2.	AK	Acer P. 'Crimson King'	Crimson King Maple	3" BB	6		
3.	AR	Acer Rubrum	Red Maple	3" BB	3		
4.	ARM	Acer Rubrum (Multi-stem)	Red Maple (Multi-Stem)	3" BB	14		
5.	ARA	Acer R. 'Armstrong'	Armstrong Red Maple	3" BB	10		
6.	TB	Tilia Cordata 'Boulevard	Boulevard Linden	3" BB	11		
7.	TC	Tilia Cordata	Littleleaf Linden	3" BB	3		
8.	QR	Quercus Rubra	Red Oak	3" BB	4		
9.	QB	Quercus Bicolor	Swamp White Oak	3" BB	15		
10.	CB	Carpinus Betulus 'Fastigiata'	Pyramidal European Hornbeam	3" BB	20		
11.	ZS	Zelcova Serrata	Japanese Zelkova	3" BB	13		
12.	CO	Celtis Occidentalis	Hackberry	3" BB	2		
13.	CC	Cercis Canadensis	Eastern Redbud	8' BB	1		
14.	AB	Aesculus X.C. 'Brioti'	Brioti Red Horse Chesnut	2" BB	9		
15.	AC	Amelanchier Canadensis	Shadlow Serviceberry (Multi-Stem)	8' BB	8		
16.	MF	Malus Floribunda	Japanese Flowering Crabapple	2" BB	7		
17.	MS	Malus Sargentii	Snowdrift Crabapple	2" BB	11		
SHRUBS							
18.	SK	Syringa Patula 'Miss Kim'	Miss Kim Dwarf Lilac	3' BB	15		
19.	RKP	Rosa X. 'Pink Kin'	Pink Knock-Out Rosa	3' BB	19		

20.	RK	Rosa X. 'Osa Easy Double Red'	Osa Easy Double Red Rose	#5 cont.	77		
21.	HA	Hydrangea A. Annabelle	Border Forsythia	#3 cont.	8		
22.	RA	Ribes Alpinum	Alpine Currant	#3 cont.	75		
23.	VC	Viburnum Carlesii	Koreanspice Viburnum	3 1/2' BB	1		
24.	VM	Viburnum P.T. 'Mariesii'	Mariesi Doublefile Viburnum	3 1/2' BB	15		
25.	VMK	Viburnum X.B. 'Mohawk'	Mohawk Viburnum	3 1/2' BB	13		
26.	SG	Spiraea X.B. Bumalda 'Goldflame'	Goldflame Spirea	#3 cont.	238		
27.	HS	Hibiscus S. 'Aphrodite'	Aphrodite Althea	#3 cont.	2		
28.	RAG	Rhus Aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	#5 cont.	168		
29.	BP	Berberis T. 'Rose Glow'	Rose Glow Barberry	#3 cont.	9		
30.	LV	Ligustrum X. Vicaryi	Vicary Privet	#5 cont.	36		
		EVERGREENS					
31.	BW	Buxus 'Green Velvet'	Green Velvet Boxwood	18" BB	55		
32.	TD	Taxus X.M. 'Densifomis'	Densifomis Yew	24"-30" BB	26		
33.	TE	Taxus X.M. 'Everlow'	Everlow Yew	24"-30" BB	102		
34.	TO	Thuja Occidentalis 'Hetz Midget'	Hetz Midget Arborvitae	#5 cont.	34		
35.	ACW	Abies Concolor (8')	Concolor White Fir	8' BB	9		
36.	ACWL	Abies Concolor (10')	Concolor White Fir	10'BB	3		

37.	PS	Pinus Strobus (8')	Eastern White Pine	8' BB	16		
38.	PSL	Pinus Strobus (10')	Eastern White Pine	10'BB	12		
39.	PA	Picea Abies (8')	Norway Spruce	8' BB	21		
40.	PAL	Picea Abies (10')	Norway Spruce	10'BB	13		
		PERENNIALS AND GRASSES					
41.	PAH	Pennisetum Alopecuroides 'Hamelin'	Dwarf Fountain Grass	#3 cont.	40		
42.	MSM	Miscanthus Sinensis 'Morning Light'	Morning Light Japanese Silver Grass	#5 cont.	7		
43.	NEP	Nepeta X. Faasseni 'Walkers Low'	Walkers Low Catmint	#1 cont.	13		
44.	DLY	Hemerocallis 'Happy Returns'	Happy Returns Daylily	#1 cont.	145		
45.	HOS	Hosta 'Patriot'	Patriot Hosta	#1 cont.	68		
46.	SB	Spiraea X.B. 'Anthony Waterer'	Anthony Waterer Spiraea	#5 cont.	96		
47.	SED	Sedum Spectabile 'Neon'	Neon Sedum	#1 cont.	72		
		LANDSCAPING MATERIALS		QTY	UNIT		
48.		Sod		6,800	SYD		
49.		Hydroseed		21,000	SYD		
50.		Cobblestone		24	TON		
51.		Mulch		96	CYD		
52.		Edging		1,500	LF		
53.		Top Soil		50	CYD		
54.		Irrigation		1	LS		

Landscaping Subtotal

	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	AMOUNT
	STRUCTURES				
1.	Pavilion #1	1	LS		
2.	Pavilion #2	1	LS		
3.	Pavilion #3	1	LS		
4.	Pavilion #4	1	LS		
5.	Pavilion #5	1	LS		
6.	Splash Park Ticket Booth	1	LS		
7.	Renovated Restroom Building	1	LS		
8.	Farmers Market	1	LS		
9.	Seasonal Ice Rink	1	LS		
10.	Amphitheater	1	LS		
11.	Parks and Recreation Building Demolition	1	LS		
12.	Permit Fees	1	LS		\$10,000.00

**Structures Subtotal**

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**ALTERNATES:**

**Alternate #1 – Provide and Install 2” underground conduit from Restroom Building to Bridge**

Alternate #1 will increase the Total Base Bid Amount By: \_\_\_\_\_

**Alternate #2 – Provide and Install eight (8) bridge lights**

Alternate #2 will increase the Total Base Bid Amount By: \_\_\_\_\_

**RIGHT TO ACCEPT, TO REJECT, AND TO WAIVE DEFECTS**

The Owner reserves the right: 1) To award bids received on the basis of individual items, or groups of items, or on the entire list of items, (2) To reject any or all bids, or any part thereof, (3) To waive any irregularity in the bids, (4) To accept the bid that is in the best interest of the City, (5) To reduce or eliminate this purchase without prior notice, (6) To split the award to realize the greatest cost savings, (7) To issue Post-Bid Addendums to clarify or request additional information, including pricing, (8) To require one or more selected bidders to perform the requested service on a trial basis, at the unit prices bid, as evidence of a bidders ability to satisfactorily perform the requested service, prior to a formal recommendation and approval by City Administration / City Council.

**ACKNOWLEDGMENT:**

The Undersigned agrees that if this proposal is accepted by the owner, he will furnish the required bonds and insurance and execute the contract within fourteen (14) days after notice of the award of the contract is mailed to him by the owner.

The owner reserves the right to reject any or all bids and to waive any irregularities in bidding. No bid may be withdrawn after the scheduled closing time for receiving bids for at least ninety (90) calendar days. Work shall commence on or prior to August 14, 2017 and be completed on or prior to June 18, 2018. Anticipated contract award date is August 1, 2017. Failure to complete contractual work within the times mentioned herein shall result in the contractor paying Liquidated Damages for each and every calendar day the contractor shall be in default as contained herein under Liquidated Damages.

The award of the contract will be based on the low bid submitted. However, the Owner reserves the right to accept any proposal or reject all bids, and to waive any defects or irregularities in the bids if it appears advantageous to the Owner to do so. In addition, the owner, at his sole discretion, reserves the right to award to the Bidder who, in the sole determination of the owner, will best serve the interest of the owner. The project will not be awarded by separate contracts.

**LEGAL STATUS OF BIDDER:**

The bidder shall indicate his/her legal status in the appropriate location below:  
Fill out the appropriate location and strike out the other two (2).

- A Corporation duly organized and doing business under the laws of the state of \_\_\_\_\_ for whom \_\_\_\_\_, whose signature is affixed to this proposal, is duly authorized to execute contracts.

- A Partnership, all members of which, with addresses, are:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

- An Individual, whose signature is affixed to this proposal.

_____	_____
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Signed and Sealed this \_\_\_\_\_ day of \_\_\_\_\_, 2017\_\_

Authorized Signature of Bidder:

\_\_\_\_\_  
(Print Name) \_\_\_\_\_

(Title) \_\_\_\_\_