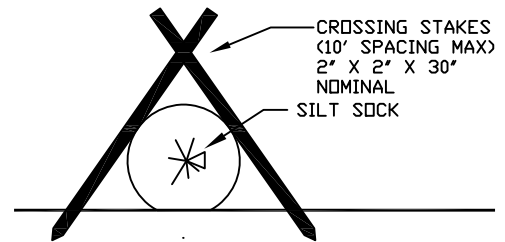
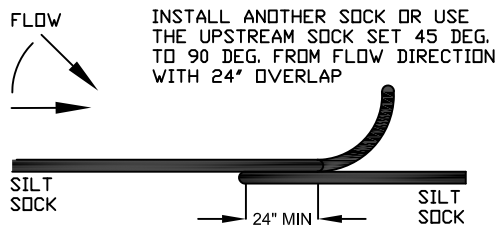
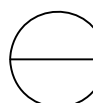
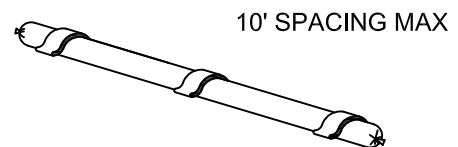
 **SILT SOCK - 45-90 deg. Flow**
N.T.S.

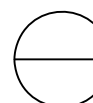


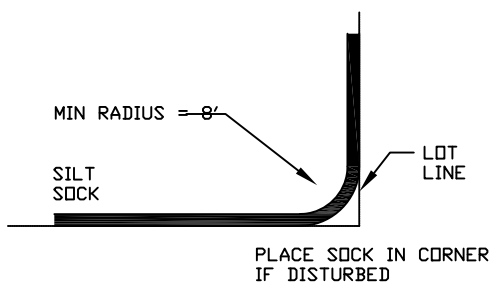
 **SILT SOCK - Staked Install**
N.T.S.



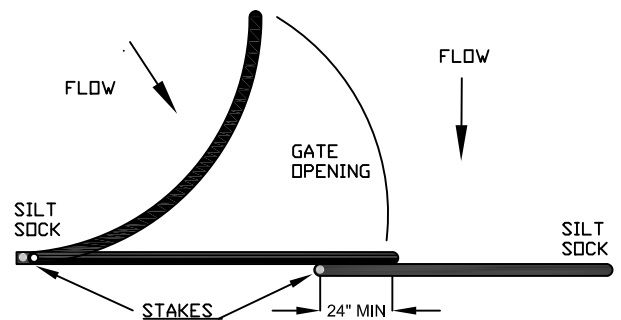
 **SILT SOCK - 0-45 deg. Flow**
N.T.S.



 **SILT SOCK - Sandbag Install**
N.T.S.



 **SILT SOCK - Site Corners**
N.T.S.

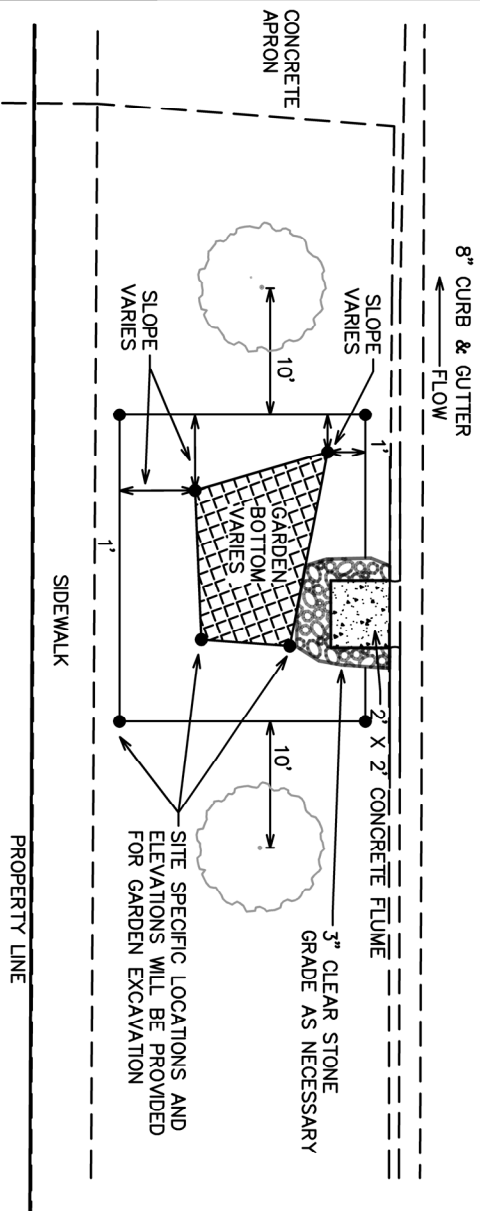
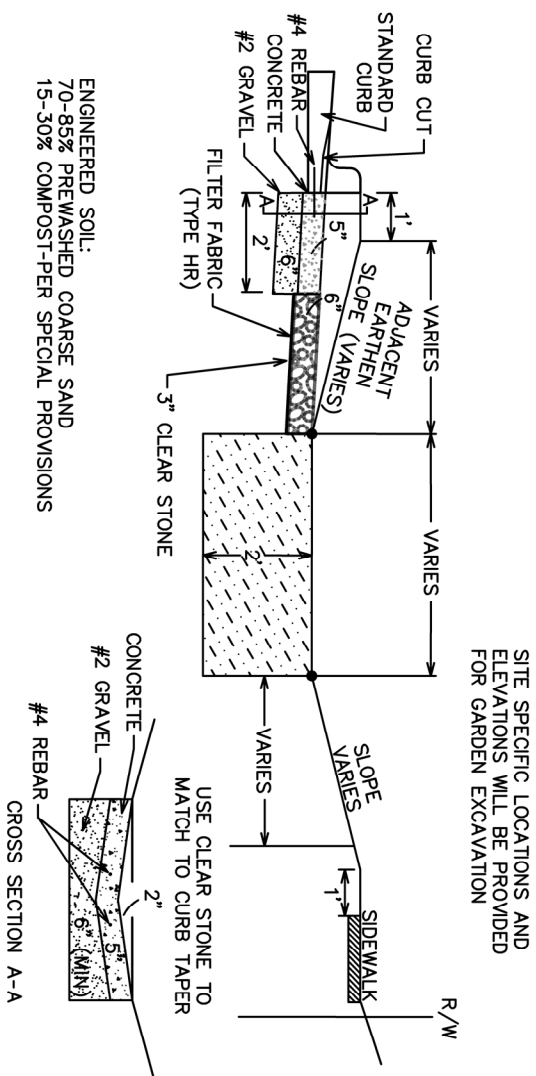


 **SILT SOCK - Gate**
N.T.S.

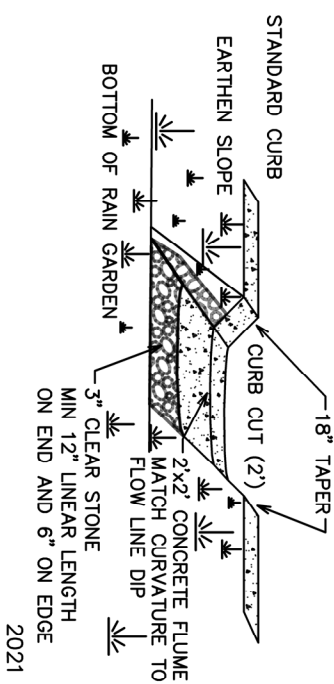
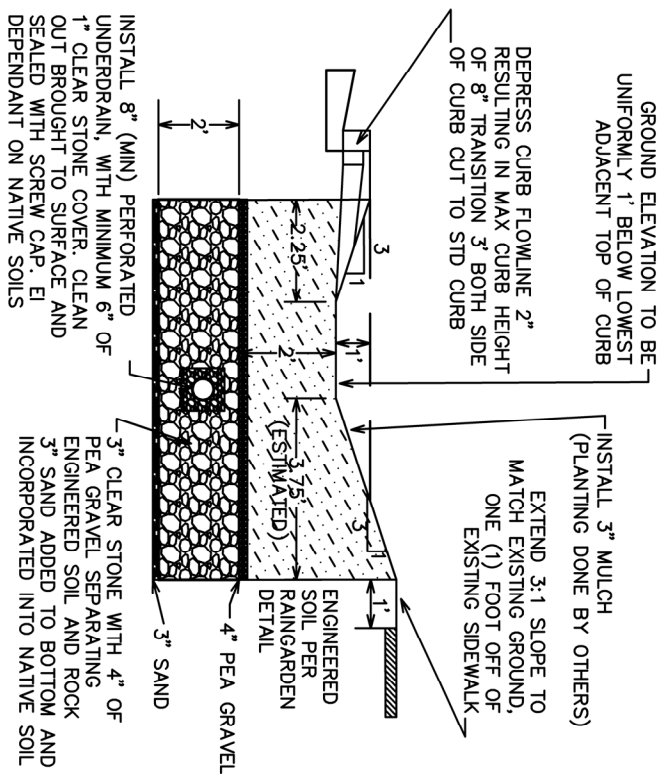
2021

| |
|---|
| CITY OF MADISON ENGINEERING DIVISION |
| SILT SOCK |
| STANDARD DETAIL DRAWING 1.12 |

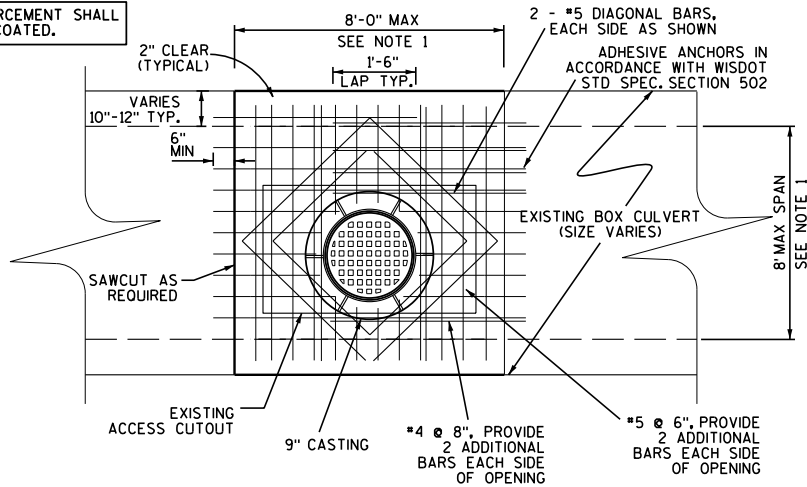
TERRACE RAINGARDEN DETAIL



BIO-RETENTION DETAIL



ALL REINFORCEMENT SHALL BE EPOXY COATED.

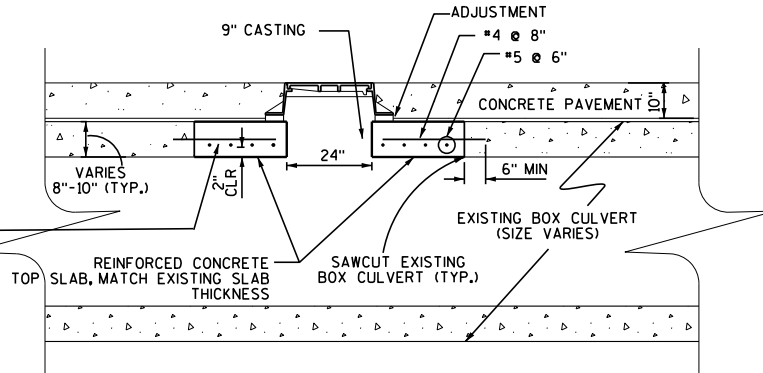


PATCH RCBC TOP SLAB TYPE I & TYPE II

TOP VIEW

NOTE:
THE OUTSIDE ADJUSTING RINGS
SHALL BE SEALED WITH A 1/2"
THICK, AIR ENTRAINED MORTAR
TYPE M OR S SEAL (TYP.)

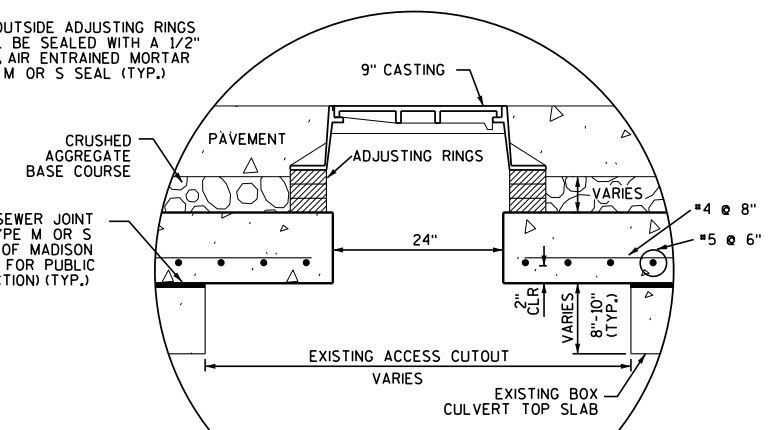
#4 @ 8", ADHESIVE
ANCHORS EMBEDDED 6"
MIN. INTO EX. TOP SLAB,
CENTER IN SLAB.



TYPE II REPAIR SIDE VIEW

NOTE:
THE OUTSIDE ADJUSTING RINGS
SHALL BE SEALED WITH A 1/2"
THICK, AIR ENTRAINED MORTAR
TYPE M OR S SEAL (TYP.)

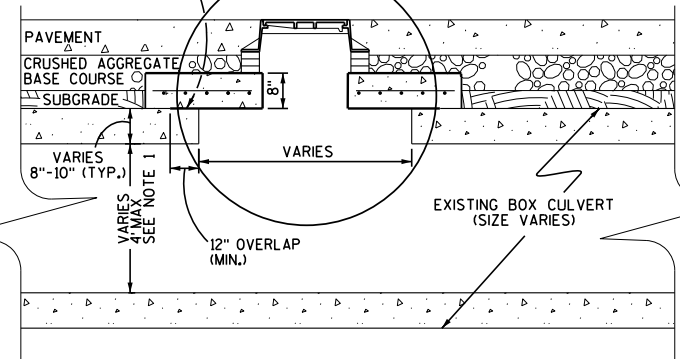
SEALTIGHT COLD PLASTIC SEWER JOINT
COMPOUND OR AIR ENTRAINED TYPE M OR S
MORTAR (PER THE CITY OF MADISON
STANDARD SPECIFICATIONS FOR PUBLIC
WORKS CONSTRUCTION) (TYP.)



INSET

INSET

SEALTIGHT COLD PLASTIC
SEWER JOINT COMPOUND
OR AIR ENTRAINED TYPE M
OR S MORTAR (PER THE CITY
OF MADISON STANDARD
SPECIFICATIONS FOR PUBLIC
WORKS CONSTRUCTION) (TYP.)



TYPE I REPAIR SIDE VIEW

DESIGN NOTES:

1. THIS DETAIL IS APPLICABLE FOR BOX CULVERT TOP SLAB REPAIRS FOR CAST-IN-PLACE BOX CULVERTS WITH SPANS UP TO 8 FEET AND VERTICAL RISED UP TO 4 FEET. REPAIR WIDTH SHALL BE LIMITED TO 8 FEET. DEPTH OF EARTH FILL OVER TOP OF BOX CULVERT SHALL NOT EXCEED 10 FEET. THIS DETAIL IS NOT APPLICABLE FOR PRECAST BOX CULVERTS. SITE SPECIFIC DESIGN REVIEW BY A STRUCTURAL ENGINEER IS REQUIRED FOR APPLICATIONS OUTSIDE THESE DESIGN PARAMETERS.
2. TYPE I REPAIR DETAIL IS APPLICABLE FOR COVERING AN EXISTING OPENING IN THE TOP SLAB. THE NEW COVER SHALL LAP 12 INCHES MINIMUM ON EACH SIDE OF THE OPENING AND SHALL EXTEND FOR THE FULL WIDTH OF THE BOX CULVERT.
3. TYPE II REPAIR DETAIL IS APPLICABLE FOR REPAIRING A FULL WIDTH OPENING IN THE BOX CULVERT TOP SLAB, OR IN CASES WHERE A SHALLOW DEPTH OF COVER TO THE ROADWAY DOES NOT ALLOW FOR TYPE I REPAIR DETAIL.
4. THIS DETAIL IS BASED ON A 24" OPENING (OR NO OPENING) IN THE TOP SLAB. REVIEW BY A STRUCTURAL ENGINEER IS REQUIRED FOR LARGER OPENINGS OR CONDITIONS NOT REPRESENTED BY THIS DETAIL.
5. CONCRETE FOR REPAIR SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.

2021

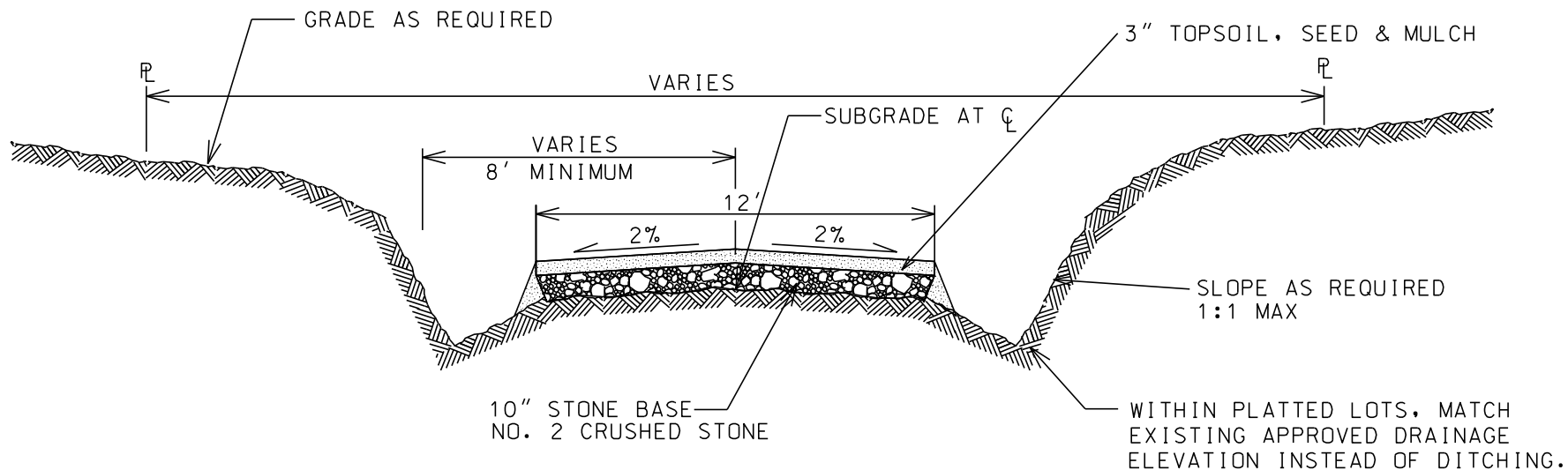
CITY OF MADISON
ENGINEERING DIVISION

RCBC REPAIR
TYPE I & TYPE II

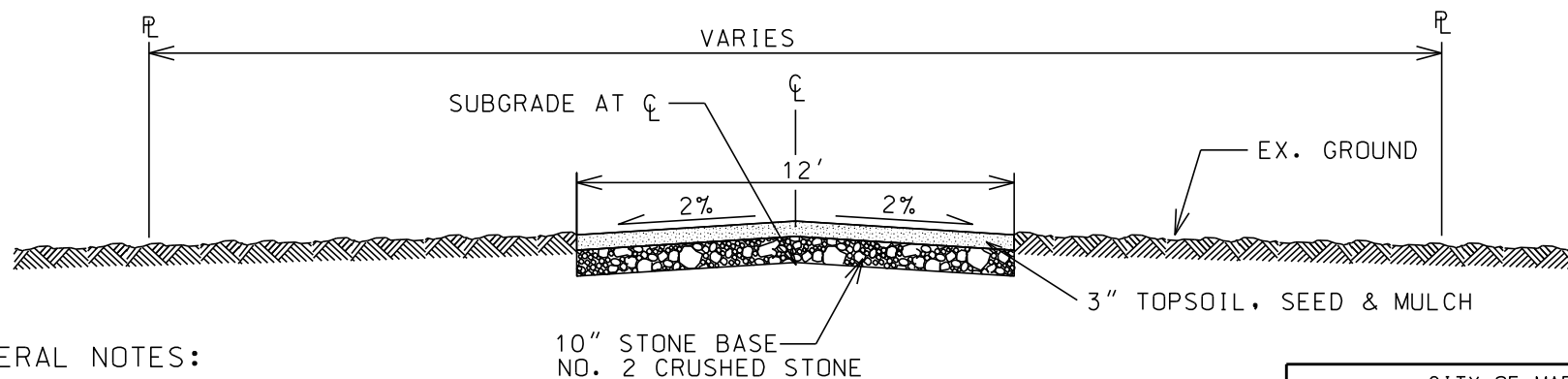
STANDARD DETAIL DRAWING 5.1.2

DITCH OPTION

(INSTALL 1 OR 2 DITCHES)



NO DITCH OPTION



GENERAL NOTES:

SUBGRADE SHALL BE CONSTRUCTED IN ACCORDANCE
WITH CITY OF MADISON STANDARD SPECIFICATIONS.

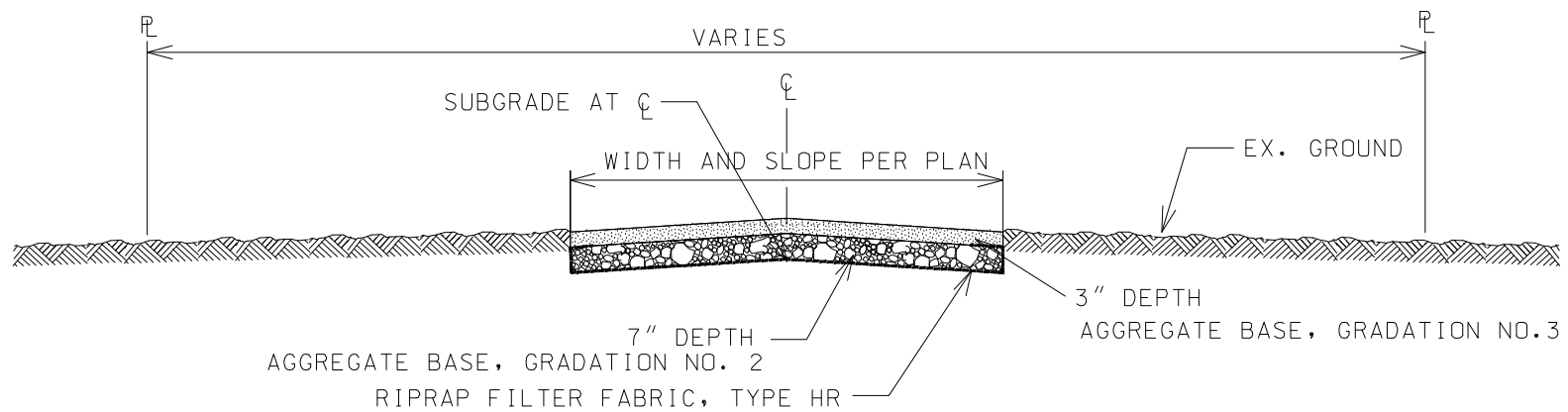
TERRACES AND SIDESLOPES SHALL BE TOPSOILED, SEED, SEED,
FERTILIZED AND MULCHED IN ACCORDANCE WITH THE
SPECIFICATIONS EXCEPT THAT THE
DITCH MAY REQUIRE 3" CLEAR STONE.

2021

CITY OF MADISON
ENGINEERING DIVISION

TYPICAL SECTION
SAS ACCESS ROAD
PERMANENT - PARK

STANDARD DETAIL DRAWING 5.1.4



GENERAL NOTES:

SUBGRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS.

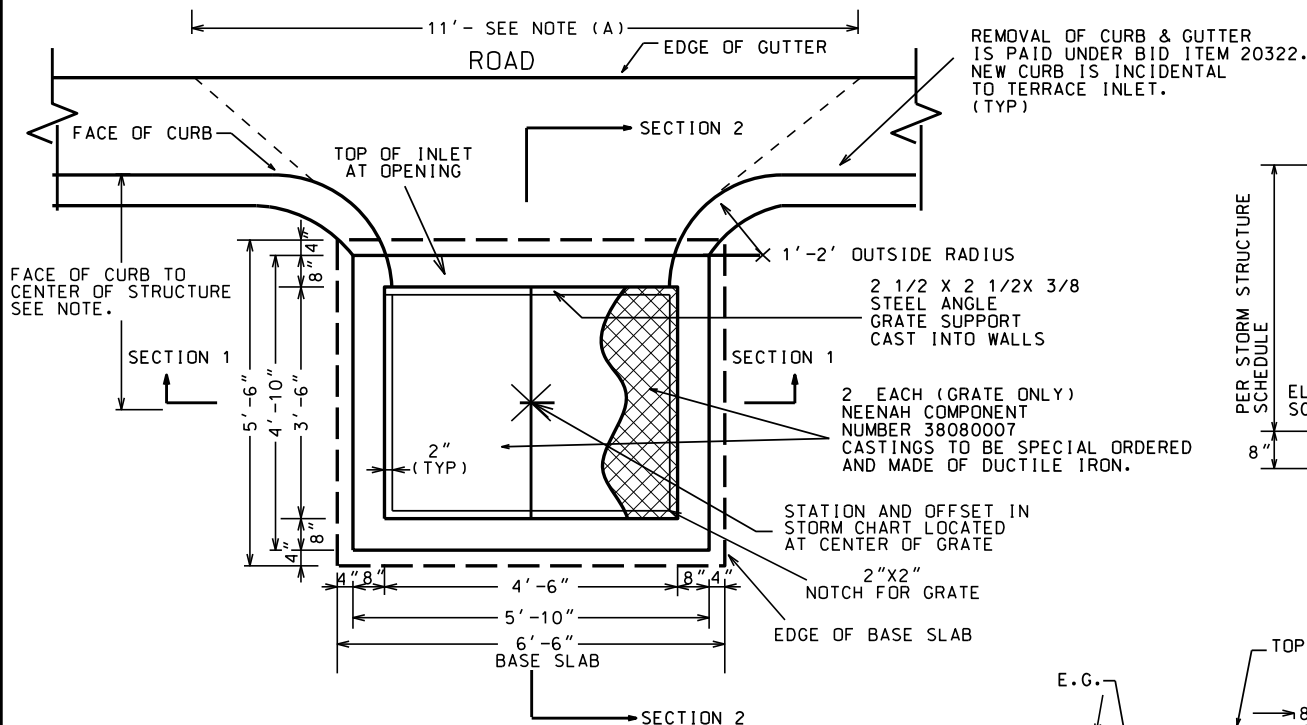
TERRACES AND SIDESLOPES SHALL BE TOPSOILED, SEEDDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS.

2021

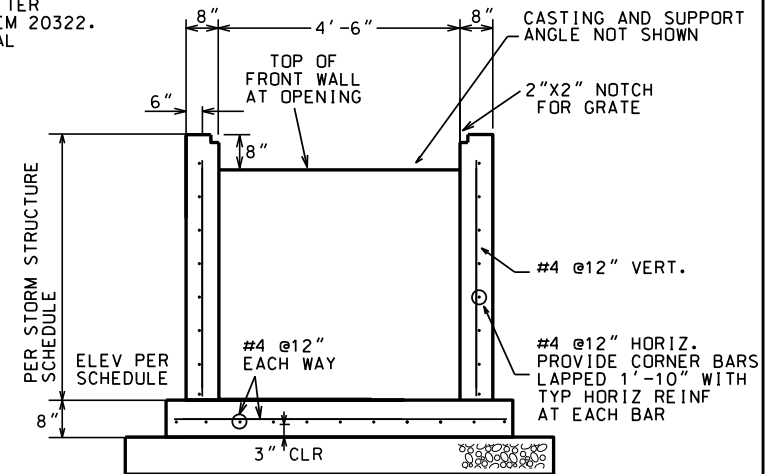
CITY OF MADISON
ENGINEERING DIVISION

TYPICAL SECTION
SAS ACCESS ROAD
PERMANENT - GRAVEL

STANDARD DETAIL DRAWING 5.1.5



REMOVAL OF CURB & GUTTER IS PAID UNDER BID ITEM 20322. NEW CURB IS INCIDENTAL TO TERRACE INLET. (TYP)



SECTION 1

GENERAL NOTES:
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PROVIDE ADDITIONAL REINFORCEMENT AROUND PIPE OPENINGS PER "ADDITIONAL REINFORCEMENT AT CONCRETE OPENINGS" DETAIL ON STANDARD DETAIL DRAWING 5.7.3

BACKFILL STRUCTURE WITH SELECT FILL SAND (BID ITEM 20208).

DESIGN DATA:
CONCRETE MASONRY: $f'_c = 4,000$ PSI
STEEL REINFORCING: $F_y = 60,000$ PSI

STRUCTURAL DESIGN IS BASED ON A MAXIMUM STRUCTURE DEPTH OF 9 FEET. STRUCTURAL REVIEW REQUIRED FOR STRUCTURES DEEPER THAN 9 FEET.

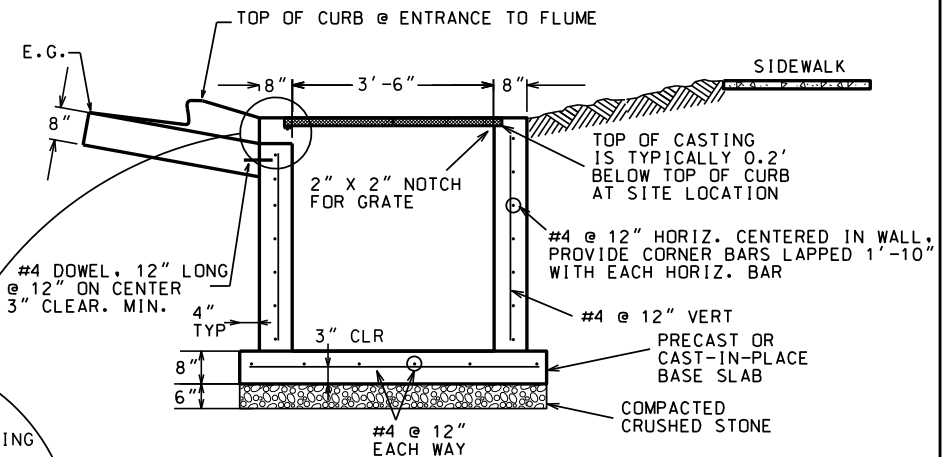
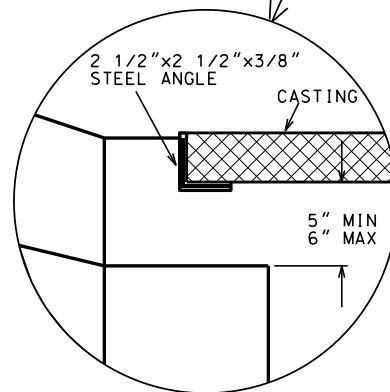
NOTE:
DIMENSION FROM FACE OF CURB TO CENTER OF STRUCTURE

| CURB TYPE | DISTANCE |
|-----------------|----------|
| TYPE A, D, G, X | 3'-11" |
| TYPE B, E, H | 4'-5" |

PLAN VIEW NOTES:

(A) THE CONTRACTOR SHALL BE REQUIRED TO HAND POUR AND FORM THE LIMITS OF THE CURB ASSOCIATED WITH THE STRUCTURE UNLESS SPECIFICALLY APPROVED BY THE CONSTRUCTION ENGINEER.

A STRAIGHT LINE GRADE SHALL BE MAINTAINED FROM THE PAVEMENT EDGE OF GUTTER TO THE OUTSIDE EDGE OF THE INLET. AS SHOWN GRAPHICALLY IN SECTION #2. THE STRAIGHT LINE GRADE SHALL EXTEND 5.5' ON BOTH SIDES OF THE INLET. SEE THE DASHED LINES ON PLAN VIEW FOR REFERENCE.

STRUCTURE
PLAN VIEW

SECTION 2

2021

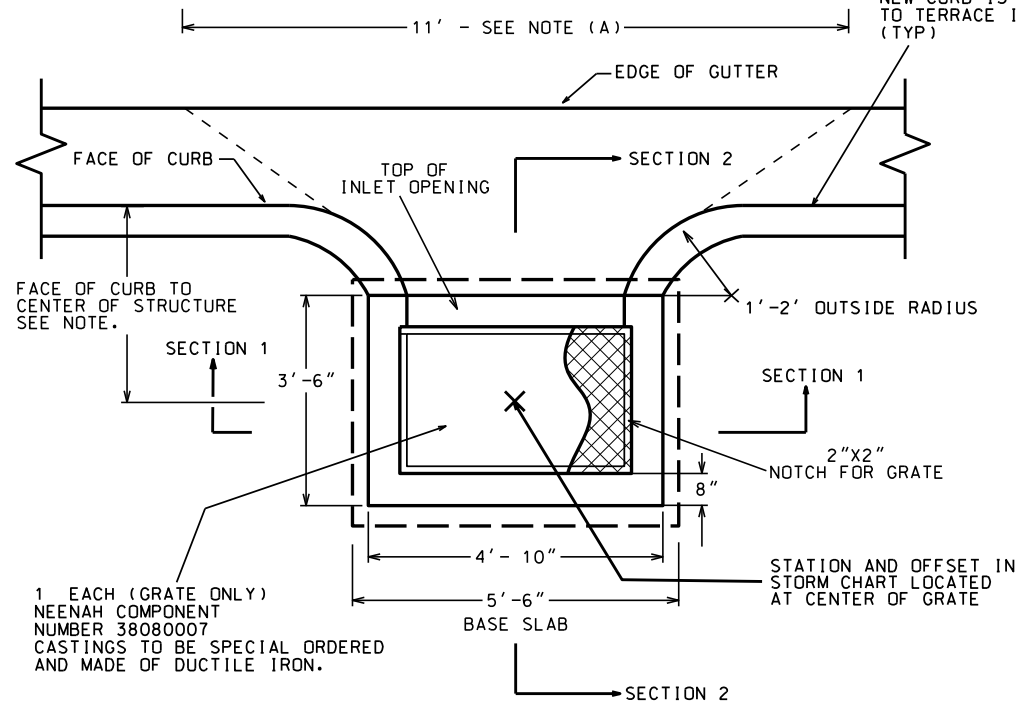
CITY OF MADISON
ENGINEERING DIVISION

TERRACE INLET
TYPE 2

STANDARD DETAIL DRAWING 5.7.12A

ROAD

REMOVAL OF CURB & GUTTER
IS PAID UNDER BID ITEM 20322.
NEW CURB IS INCIDENTAL
TO TERRACE INLET.
(TYP)



STRUCTURE PLAN VIEW

GENERAL NOTES:
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED
2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PROVIDE ADDITIONAL REINFORCEMENT AROUND PIPE
OPENINGS PER "ADDITIONAL REINFORCEMENT AT
CONCRETE OPENINGS" DETAIL ON STANDARD DETAIL
DRAWING 5.7.3

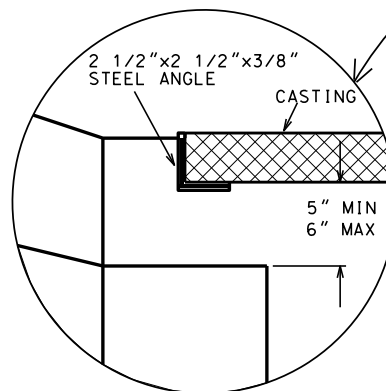
BACKFILL STRUCTURE WITH SELECT FILL SAND
(BID ITEM 20208).

DESIGN DATA:
CONCRETE MASONRY: $f'_c = 4,000$ PSI
STEEL REINFORCING: $F_y = 60,000$ PSI

STRUCTURAL DESIGN IS BASED ON A MAXIMUM
STRUCTURE DEPTH OF 15 FEET. STRUCTURAL REVIEW
REQUIRED FOR STRUCTURES DEEPER THAN 15 FEET.

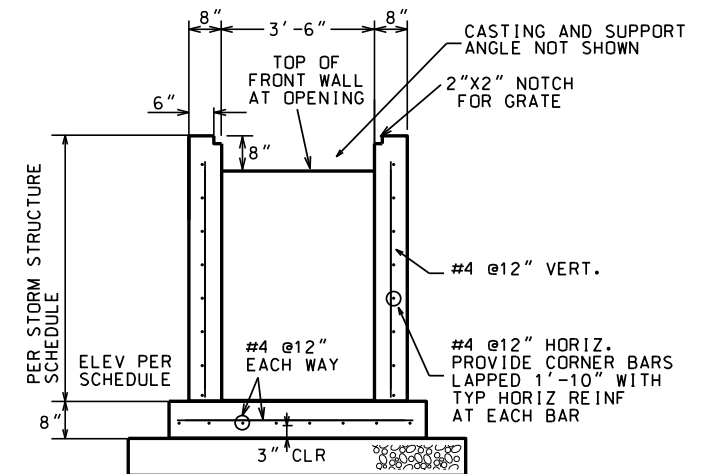
NOTE:
DIMENSION FROM FACE OF CURB TO CENTER OF STRUCTURE

| CURB TYPE | DISTANCE |
|-----------------|----------|
| TYPE A. D. G. X | 3'-3" |
| TYPE B. E. H | 3'-9" |

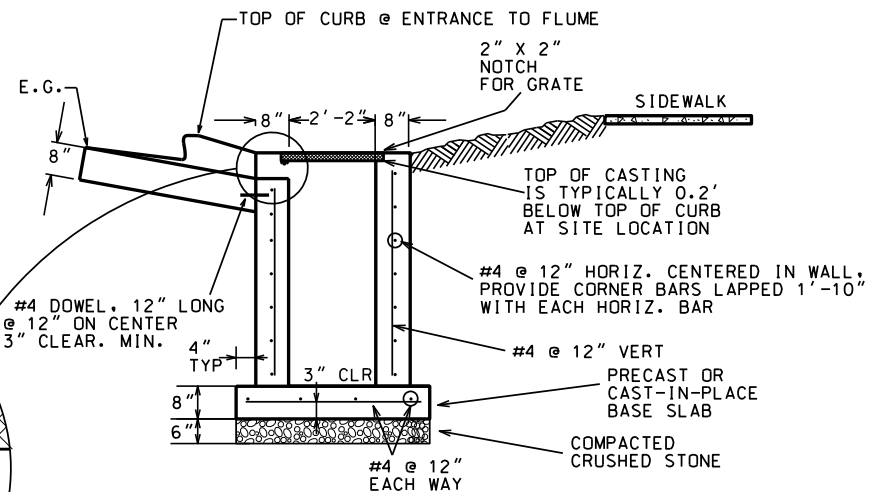


PLAN VIEW NOTES:
(A) THE CONTRACTOR SHALL BE REQUIRED TO HAND POUR AND FORM
THE LIMITS OF THE CURB ASSOCIATED WITH THE STRUCTURE
UNLESS SPECIFICALLY APPROVED BY THE CONSTRUCTION ENGINEER.

A STRAIGHT LINE GRADE SHALL BE MAINTAINED FROM THE PAVEMENT EDGE OF
GUTTER TO THE OUTSIDE EDGE OF THE INLET. AS SHOWN GRAPHICALLY IN
SECTION #2. THE STRAIGHT LINE GRADE SHALL EXTEND 5.5' ON BOTH SIDES OF
THE INLET. SEE THE DASHED LINES ON PLAN VIEW FOR REFERENCE.



SECTION 1



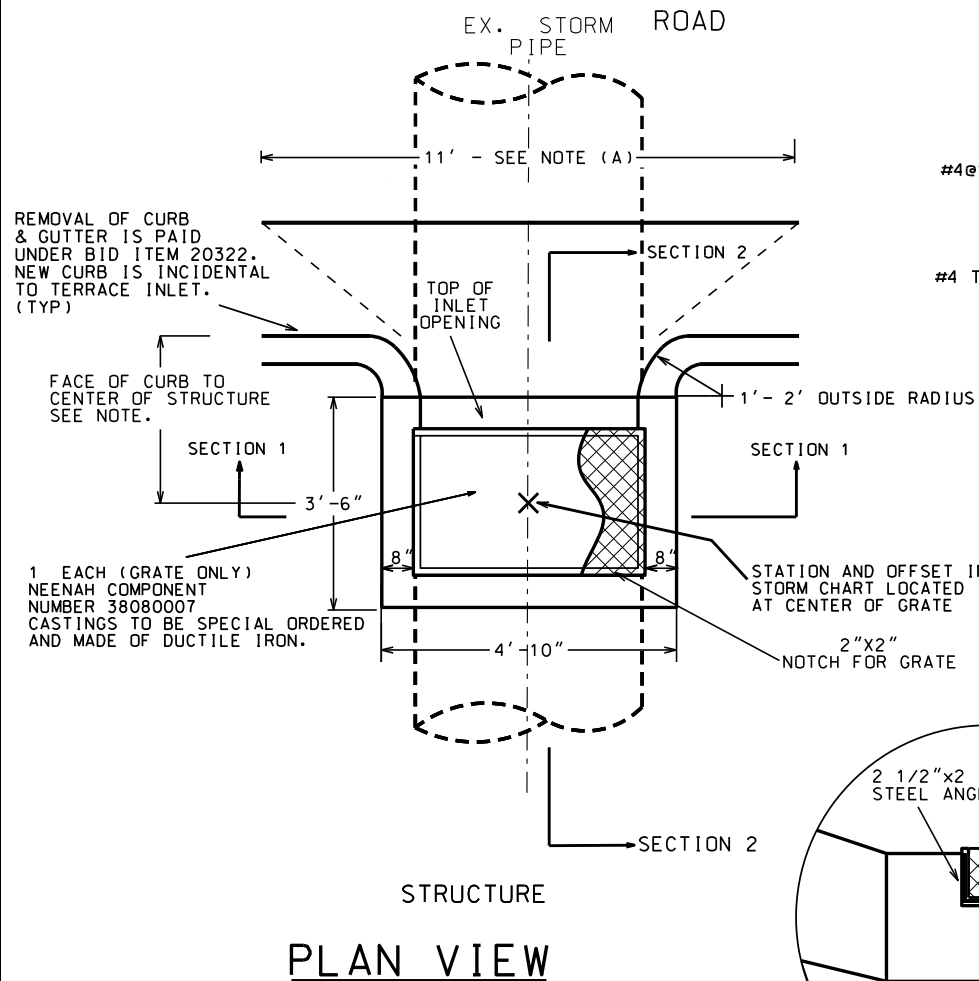
SECTION 2

2021

CITY OF MADISON
ENGINEERING DIVISION

TERRACE INLET
TYPE 3

STANDARD DETAIL DRAWING 5.7.12B



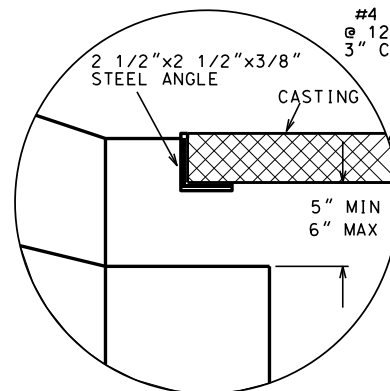
NOTE:
DIMENSION FROM FACE OF CURB TO CENTER OF STRUCTURE

| CURB TYPE | DISTANCE |
|-----------------|----------|
| TYPE A, D, G, X | 3' - 3" |
| TYPE B, E, H | 3' - 9" |

PLAN VIEW NOTES:

(A) THE CONTRACTOR SHALL BE REQUIRED TO HAND POUR AND FORM THE LIMITS OF THE CURB ASSOCIATED WITH THE STRUCTURE UNLESS SPECIFICALLY APPROVED BY THE CONSTRUCTION ENGINEER.

A STRAIGHT LINE GRADE SHALL BE MAINTAINED FROM THE PAVEMENT EDGE OF GUTTER TO THE OUTSIDE EDGE OF THE INLET, AS SHOWN GRAPHICALLY IN SECTION #2. THE STRAIGHT LINE GRADE SHALL EXTEND 5.5' ON BOTH SIDES OF THE INLET. SEE THE DASHED LINES ON PLAN VIEW FOR REFERENCE.

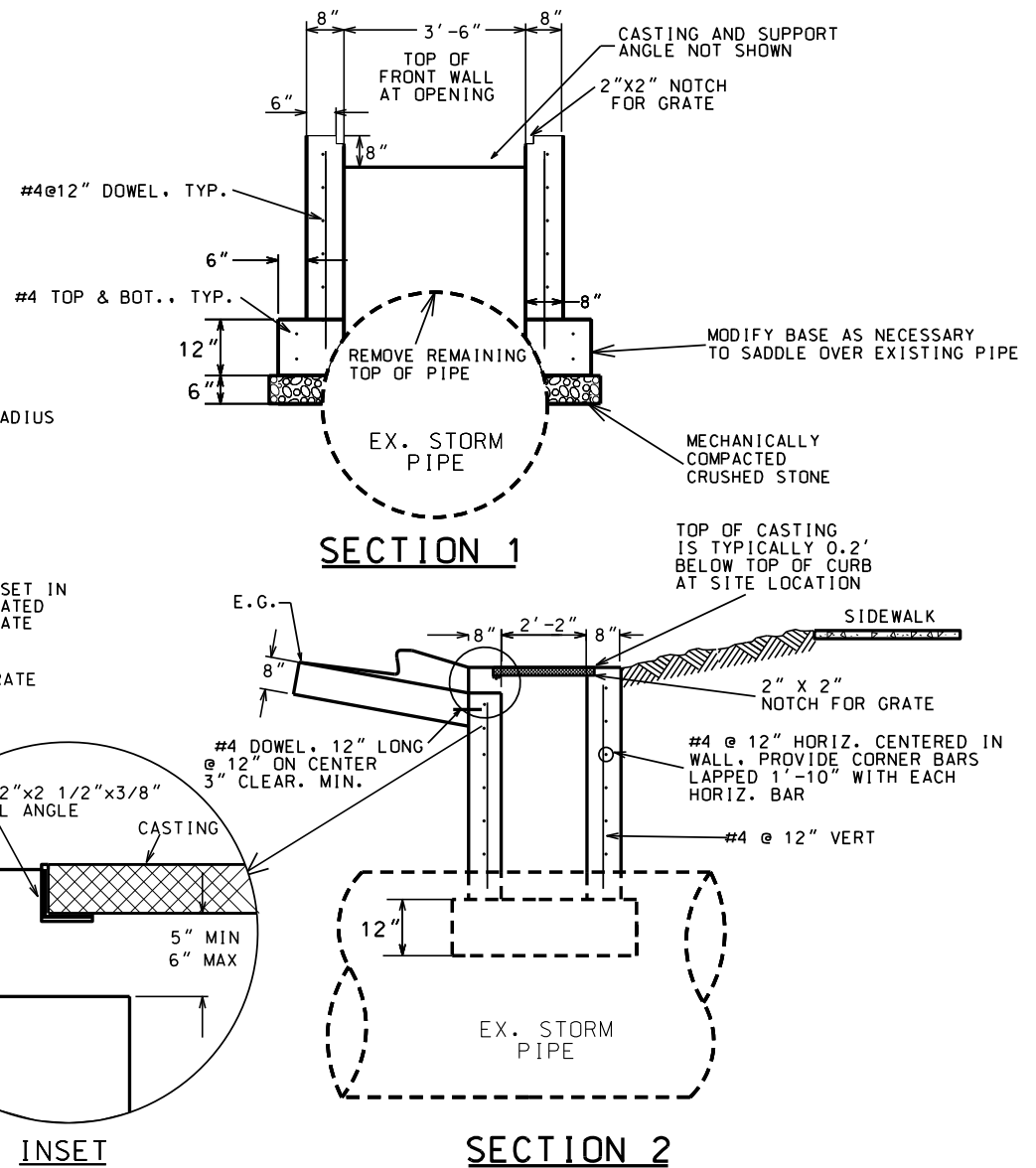


GENERAL NOTES:
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PROVIDE ADDITIONAL REINFORCEMENT AROUND PIPE OPENINGS PER "ADDITIONAL REINFORCEMENT AT CONCRETE OPENINGS" DETAIL ON STANDARD DETAIL DRAWING 5.7.3

BACKFILL STRUCTURE WITH SELECT FILL SAND (BID ITEM 20208).

DESIGN DATA:
CONCRETE MASONRY: $f'_c = 4,000$ PSI
STEEL REINFORCING: $F_y = 60,000$ PSI

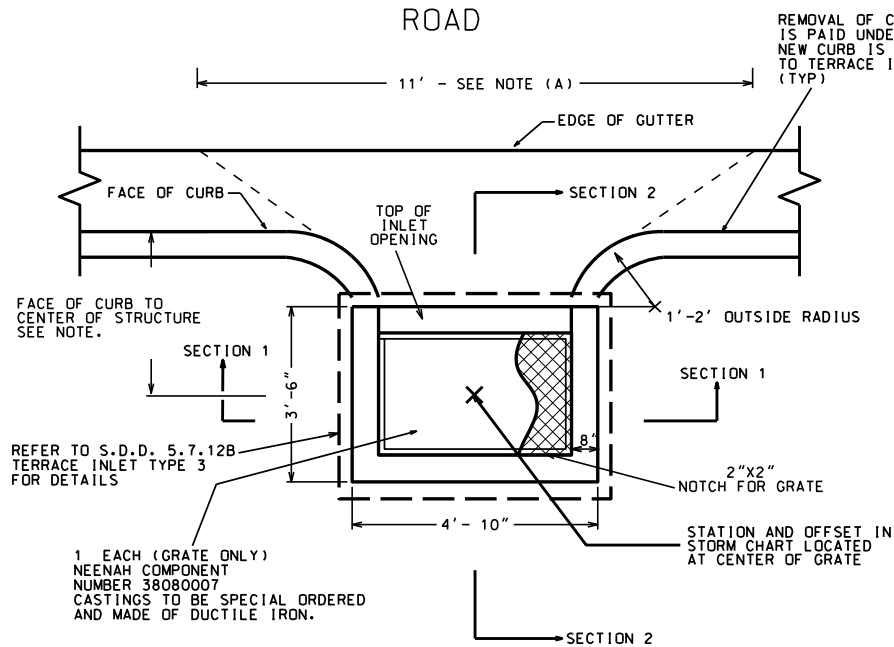


2021

CITY OF MADISON
ENGINEERING DIVISION

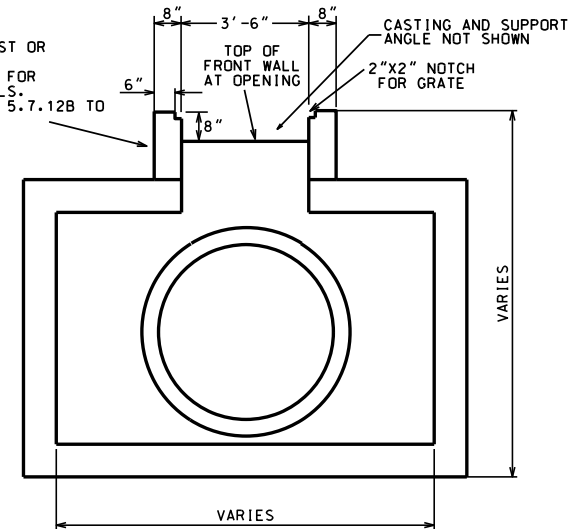
TERRACE INLET
TYPE 4

STANDARD DETAIL DRAWING 5.7.12C



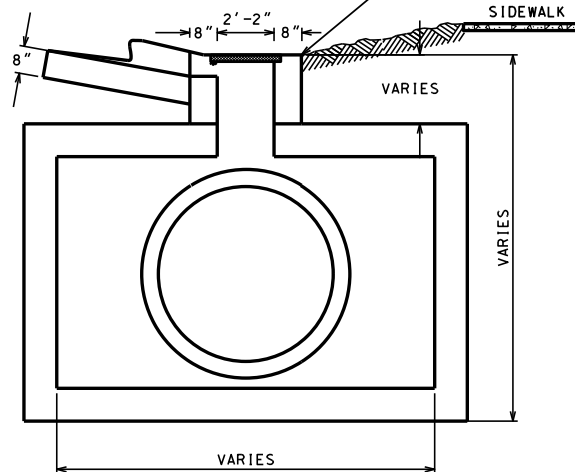
STRUCTURE
PLAN VIEW

TERRACE INLET TYPE 3 ON PRECAST OR CAST-IN-PLACE SEWER ACCESS STRUCTURE. SEE S.D.D. 5.7.12B FOR TERRACE INLET STRUCTURE DETAILS. ADAPT DETAILS SHOWN ON S.D.D. 5.7.12B TO BEAR ON TOP SLAB OF SAS.



SECTION 1

TERRACE INLET TYPE 3 ON PRECAST OR CAST-IN-PLACE SEWER ACCESS STRUCTURE. SEE S.D.D. 5.7.12B FOR TERRACE INLET STRUCTURE DETAILS. OMIT BASE SLAB AS SHOWN ON S.D.D. 5.7.12B



SECTION 2

GENERAL NOTES:
TERRACE INLET TYPE 5 CONSISTS OF A TERRACE INLET TYPE 3 CONSTRUCTED OVER A PRECAST OR CAST-IN-PLACE SEWER ACCESS STRUCTURE.

REFER TO S.D.D. 5.7.12B FOR ALL DETAILS RELATED TO THE TYPE 3 INLET.

REFER TO PLAN FOR SEWER ACCESS STRUCTURE TYPE, SIZE AND DETAILS.

PROVIDE ADDITIONAL REINFORCEMENT AT ALL OPENINGS IN SEWER ACCESS STRUCTURE PER "ADDITIONAL REINFORCEMENT AT CONCRETE OPENINGS" DETAIL ON S.D.D. 5.7.3

BACKFILL STRUCTURE WITH SELECT FILL SAND (BID ITEM 20208)

NOTE:
DIMENSION FROM FACE OF CURB TO CENTER OF STRUCTURE

| CURB TYPE | DISTANCE |
|-----------------|----------|
| TYPE A, D, G, X | 3'-3" |
| TYPE B, E, H | 3'-9" |

PLAN VIEW NOTES:

(A) THE CONTRACTOR SHALL BE REQUIRED TO HAND POUR AND FORM THE LIMITS OF THE CURB ASSOCIATED WITH THE STRUCTURE UNLESS SPECIFICALLY APPROVED BY THE CONSTRUCTION ENGINEER.

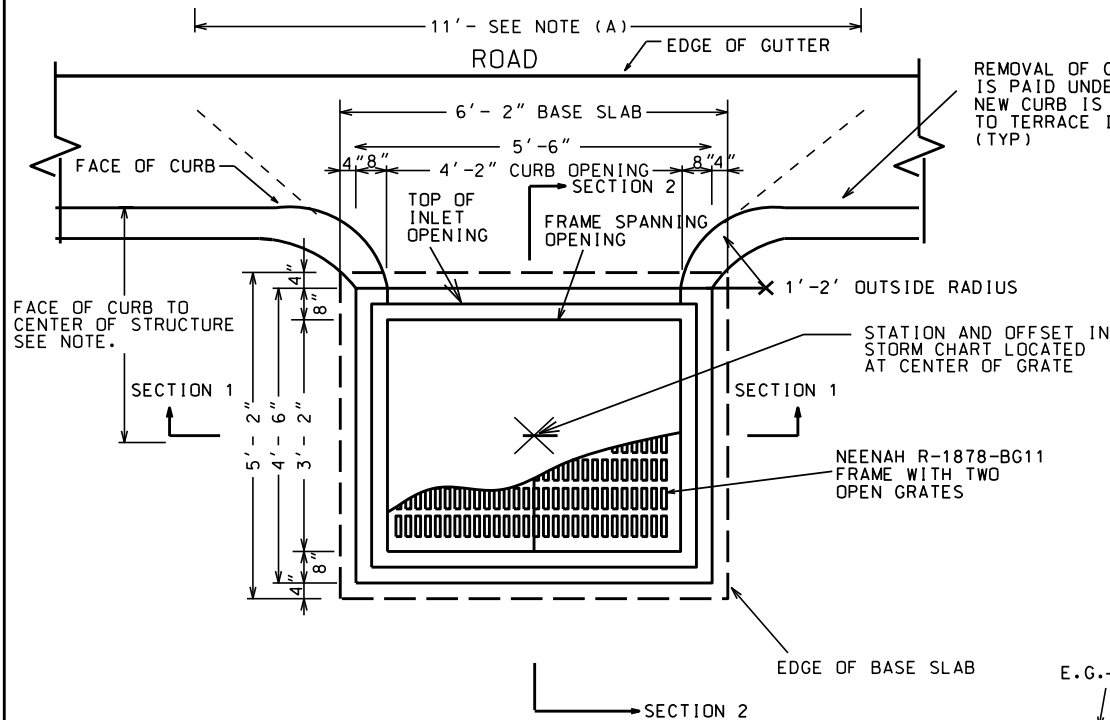
A STRAIGHT LINE GRADE SHALL BE MAINTAINED FROM THE PAVEMENT EDGE OF GUTTER TO THE OUTSIDE EDGE OF THE INLET. AS SHOWN GRAPHICALLY IN SECTION #2. THE STRAIGHT LINE GRADE SHALL EXTEND 5.5' ON BOTH SIDES OF THE INLET. SEE THE DASHED LINES ON PLAN VIEW FOR REFERENCE.

2021

CITY OF MADISON
ENGINEERING DIVISION

TERRACE INLET
TYPE 5

STANDARD DETAIL DRAWING 5.7.12D



GENERAL NOTES:
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PROVIDE ADDITIONAL REINFORCEMENT AROUND PIPE OPENINGS PER "ADDITIONAL REINFORCEMENT AT CONCRETE OPENINGS" DETAIL ON STANDARD DETAIL DRAWING 5.7.3

BACKFILL STRUCTURE WITH SELECT FILL SAND (BID ITEM 20208).

DESIGN DATA:
CONCRETE MASONRY: $f'_c = 4,000$ PSI
STEEL REINFORCING: $F_y = 60,000$ PSI

STRUCTURAL DESIGN IS BASED ON A MAXIMUM STRUCTURE DEPTH OF 9 FEET. STRUCTURAL REVIEW REQUIRED FOR STRUCTURES DEEPER THAN 9 FEET.

NOTE:
DIMENSION FROM FACE OF CURB TO CENTER OF STRUCTURE

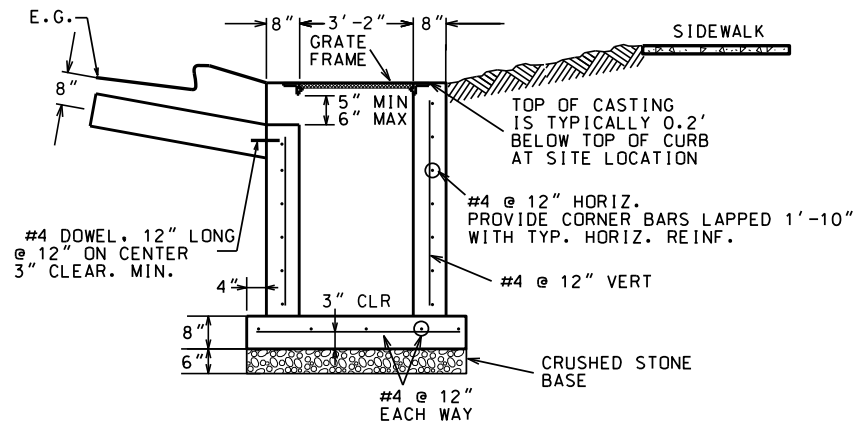
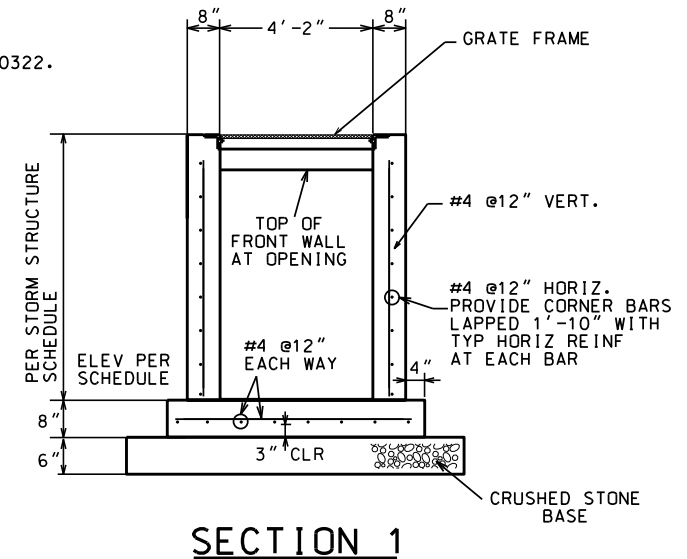
| CURB TYPE | DISTANCE |
|-----------------|----------|
| TYPE A, D, G, X | 3'-9" |
| TYPE B, E, H | 4'-3" |

PLAN VIEW NOTES:

(A) THE CONTRACTOR SHALL BE REQUIRED TO HAND POUR AND FORM THE LIMITS OF THE CURB ASSOCIATED WITH THE STRUCTURE UNLESS SPECIFICALLY APPROVED BY THE CONSTRUCTION ENGINEER.

A STRAIGHT LINE GRADE SHALL BE MAINTAINED FROM THE PAVEMENT EDGE OF GUTTER TO THE OUTSIDE EDGE OF THE INLET. AS SHOWN GRAPHICALLY IN SECTION #2. THE STRAIGHT LINE GRADE SHALL EXTEND 5.5' ON BOTH SIDES OF THE INLET. SEE THE DASHED LINES ON PLAN VIEW FOR REFERENCE.

STRUCTURE PLAN VIEW

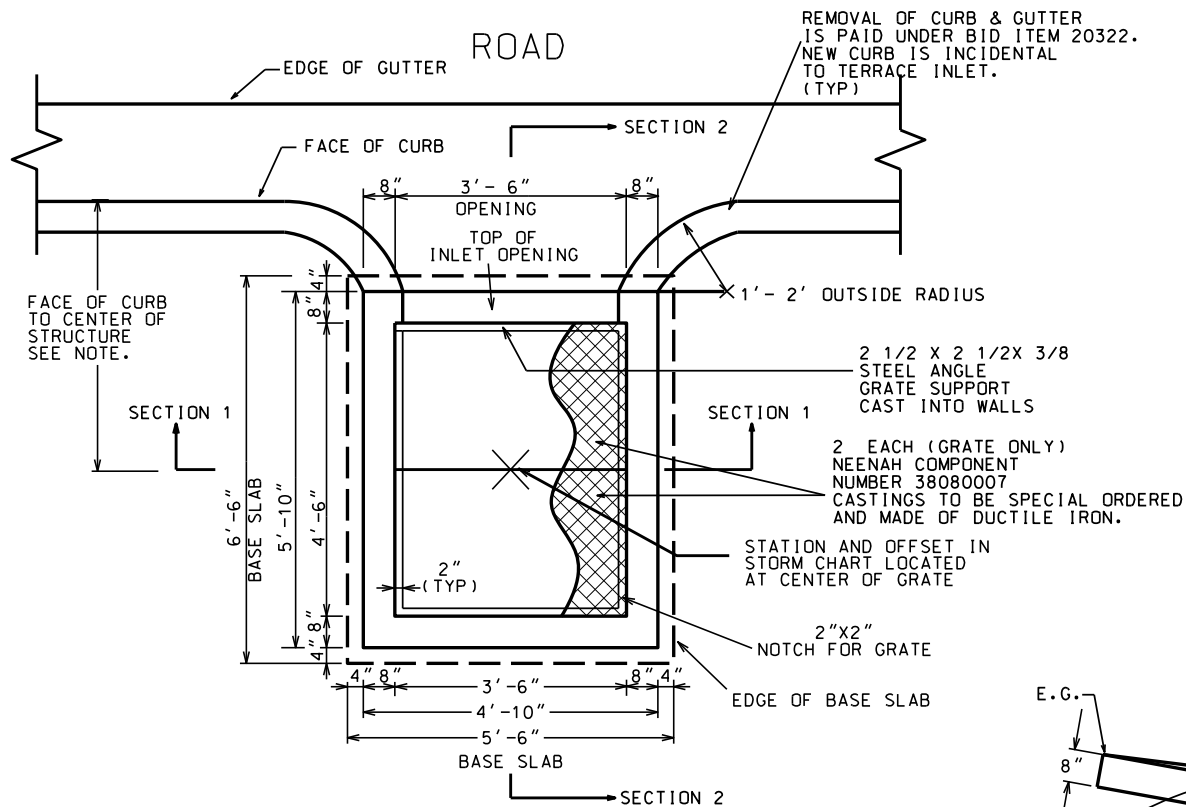


2021

CITY OF MADISON
ENGINEERING DIVISION

TERRACE INLET
TYPE 6

STANDARD DETAIL DRAWING 5.7.12E



STRUCTURE
PLAN VIEW

GENERAL NOTES:
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PROVIDE ADDITIONAL REINFORCEMENT AROUND PIPE OPENINGS PER "ADDITIONAL REINFORCEMENT AT CONCRETE OPENINGS" DETAIL ON STANDARD DETAIL DRAWING 5.7.3

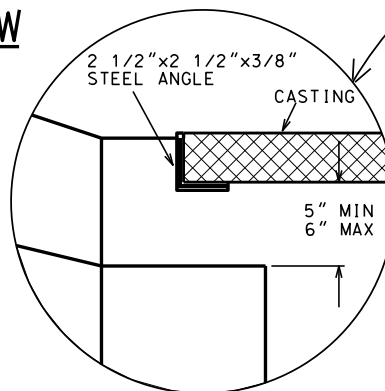
BACKFILL STRUCTURE WITH SELECT FILL SAND (BID ITEM 20208).

DESIGN DATA:
CONCRETE MASONRY: $f'_c = 4,000$ PSI
STEEL REINFORCING: $F_y = 60,000$ PSI

STRUCTURAL DESIGN IS BASED ON A MAXIMUM STRUCTURE DEPTH OF 9 FEET. STRUCTURAL REVIEW REQUIRED FOR STRUCTURES DEEPER THAN 9 FEET.

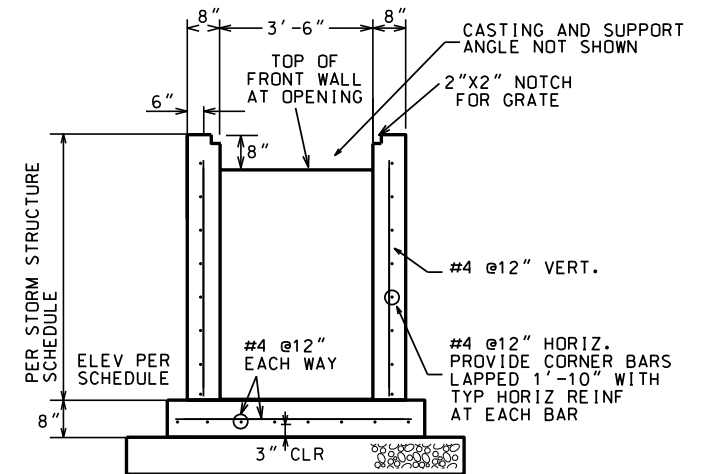
NOTE:
DIMENSION FROM FACE OF CURB TO CENTER OF STRUCTURE

| CURB TYPE | DISTANCE |
|-----------------|----------|
| TYPE A. D. G. X | 4'-5" |
| TYPE B. E. H | 4'-11" |

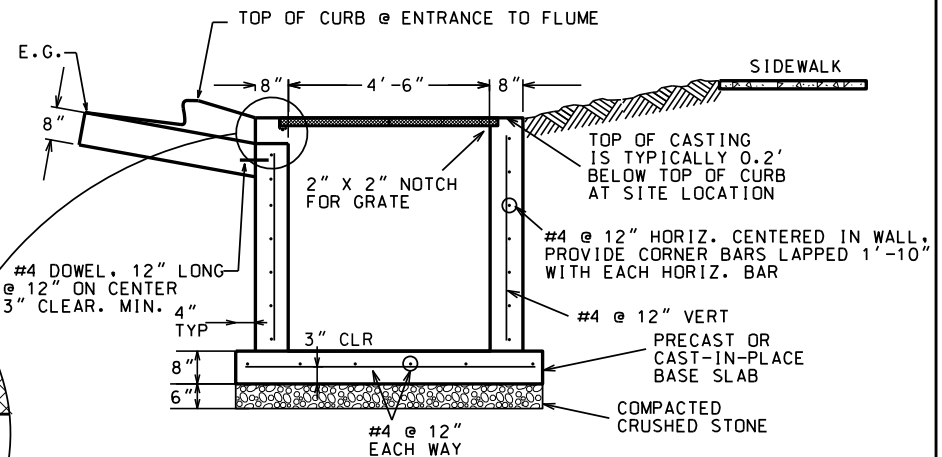


PLAN VIEW NOTES:
(A) THE CONTRACTOR SHALL BE REQUIRED TO HAND POUR AND FORM THE LIMITS OF THE CURB ASSOCIATED WITH THE STRUCTURE UNLESS SPECIFICALLY APPROVED BY THE CONSTRUCTION ENGINEER.

A STRAIGHT LINE GRADE SHALL BE MAINTAINED FROM THE PAVEMENT EDGE OF GUTTER TO THE OUTSIDE EDGE OF THE INLET. AS SHOWN GRAPHICALLY IN SECTION #2. THE STRAIGHT LINE GRADE SHALL EXTEND 5.5' ON BOTH SIDES OF THE INLET. SEE THE DASHED LINES ON PLAN VIEW FOR REFERENCE.



SECTION 1



SECTION 2

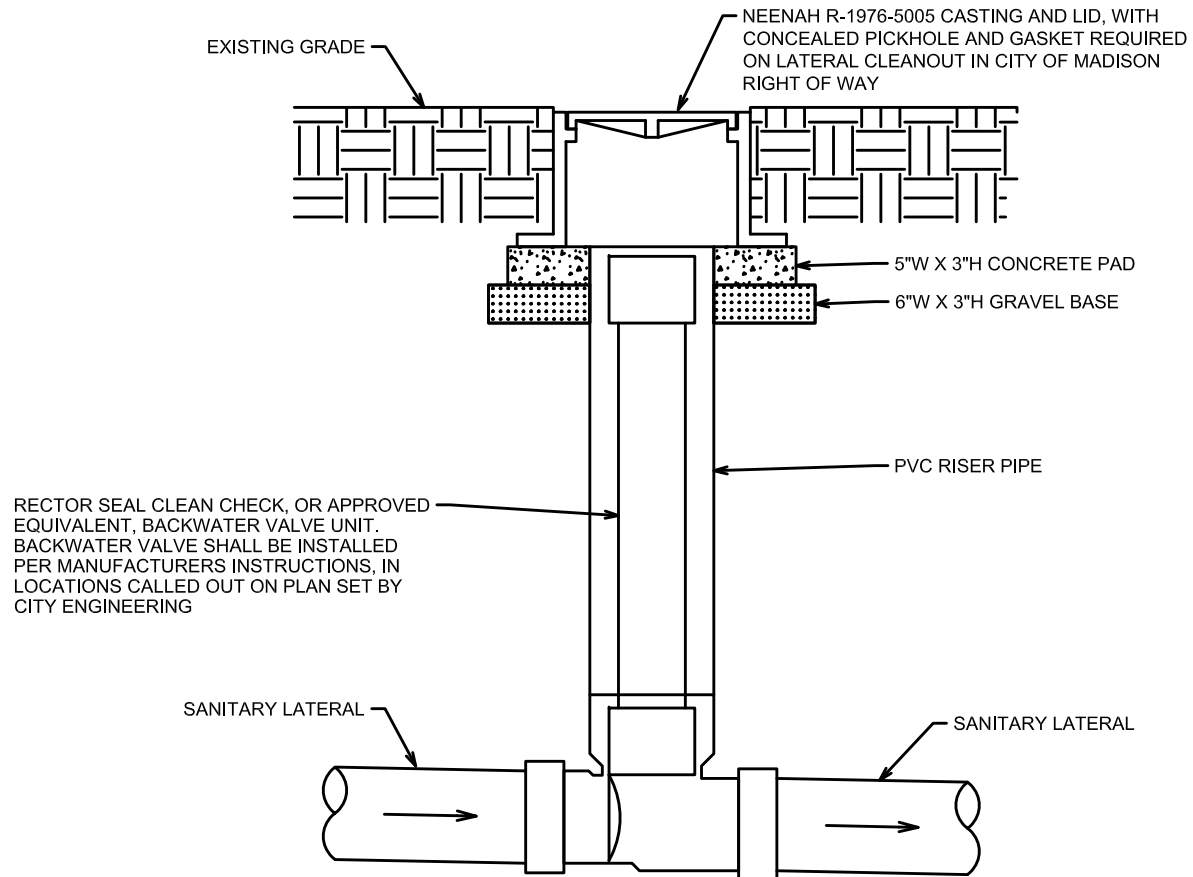
2021

CITY OF MADISON
ENGINEERING DIVISION

**TERRACE INLET
TYPE 1**

STANDARD DETAIL DRAWING 5.7.12

5.7.40



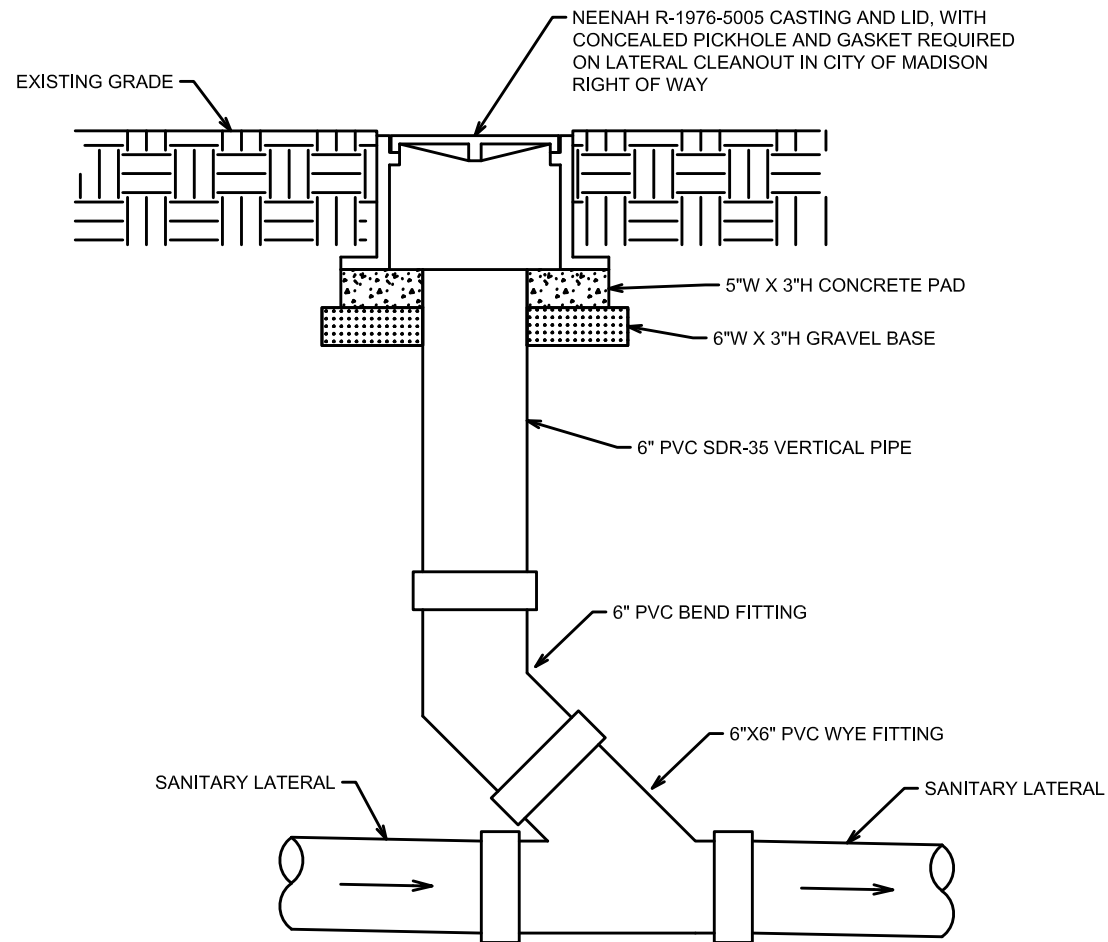
2022

CITY OF MADISON
ENGINEERING DIVISION

SEWER BACKWATER
VALVE

STANDARD DETAIL DRAWING 5.7.40

5.7.41

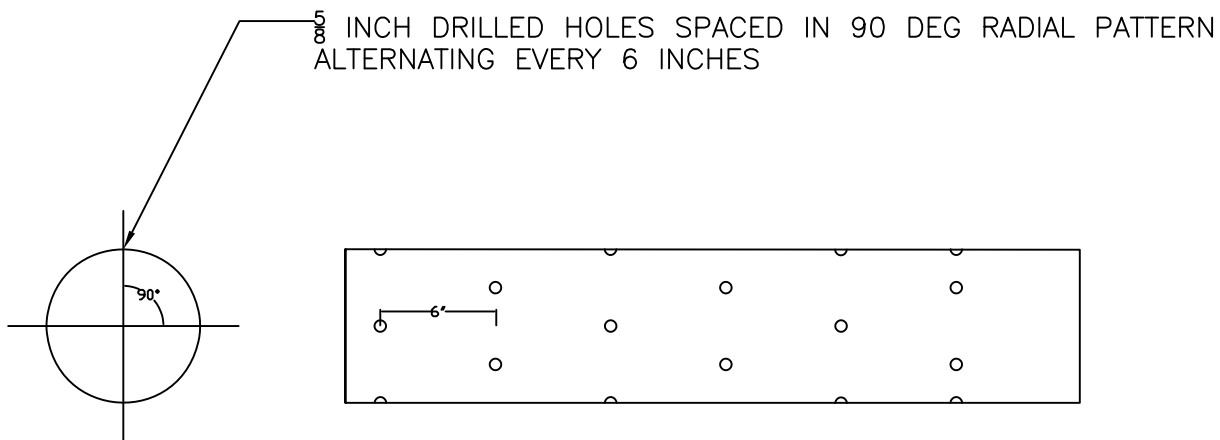


2022

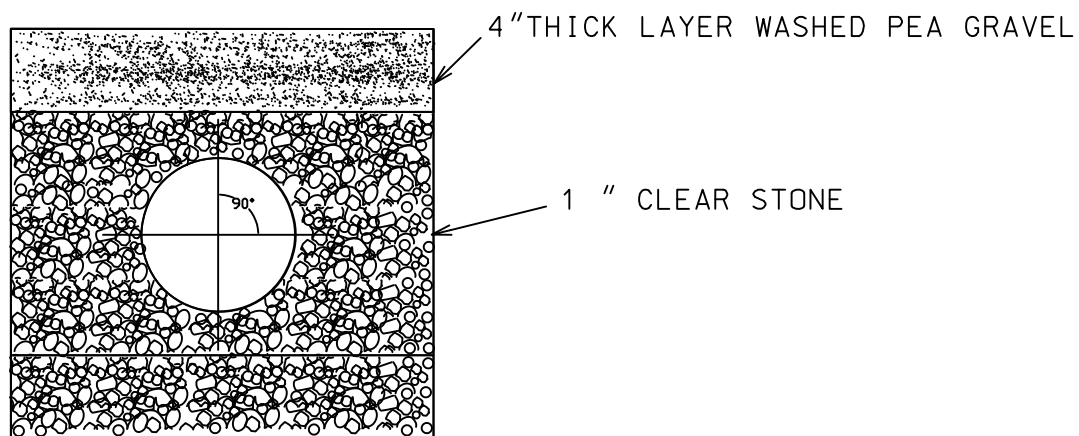
CITY OF MADISON
ENGINEERING DIVISION

LATERAL CLEANOUT

STANDARD DETAIL DRAWING 5.7.41



DRILL PATTERN FOR 8" UNDERDRAIN



NOTES:

- 1) 4" OF 3/8" PEA GRAVEL TO BE USED ON TOP OF 1" CLEAR STONE
- 2) NO FILTER FABRIC AROUND PERFORATED PIPE
- 3) MAXIMUM BEND IN UNDERDRAIN OF 22 DEG

2021

CITY OF MADISON
ENGINEERING DIVISION

DRILLED 8" PVC
UNDERDRAIN

STANDARD DETAIL DRAWING 5.7.47

PART VII - WATER MAINS AND SERVICE LATERALS

DETAIL DRAWING NO. **7.21**

REVISED: 12/2021

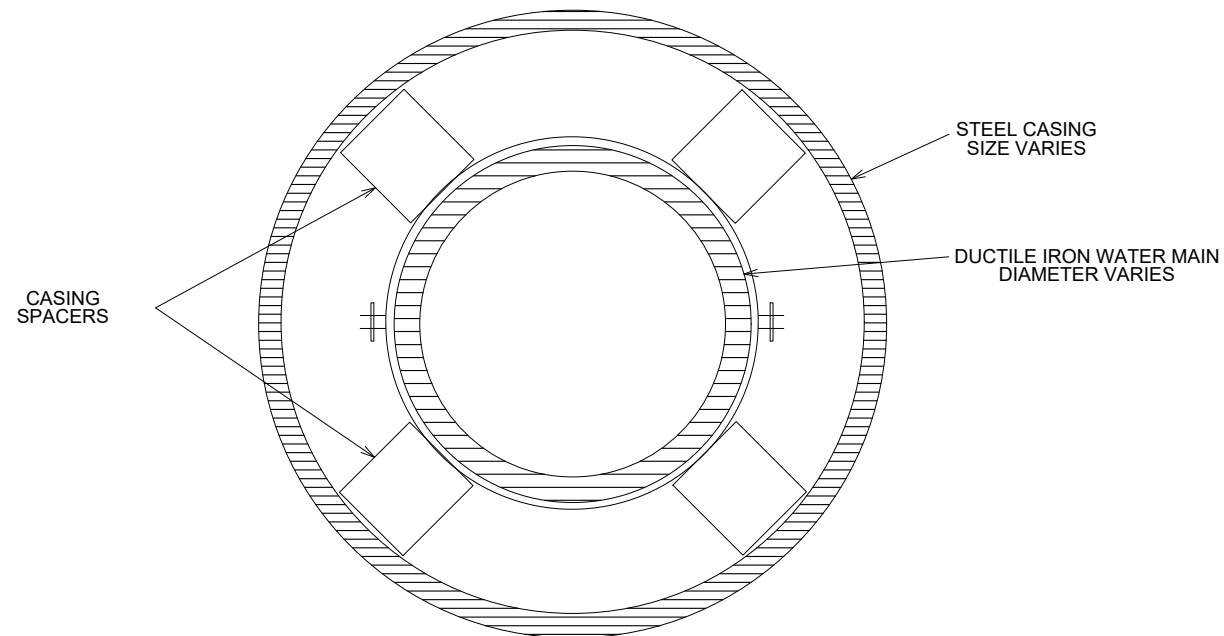
NOTES:

-WATER MAINS WITHIN CASING PIPES MUST USE
APPROVED MANUFACTURED CASING SPACERS
PER STANDARD SPECIFICATIONS
SECTION 704.5 - 'FURNISH AND INSTALL CASING'.

-ONE CASING SPACER PLACED AT 10' INTERVALS.

-ONE SPACER MUST BE PLACED TO SUPPORT
THE WATER PIPE WITHIN 2' OF THE END OF
THE CASING PIPE.

-8" WIDE SPACERS ON SIZES UP TO 30" PIPE.



CITY OF MADISON
WATER UTILITY

NOT TO SCALE

CASING SPACERS