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2019 STANDARD DETAIL PLATE

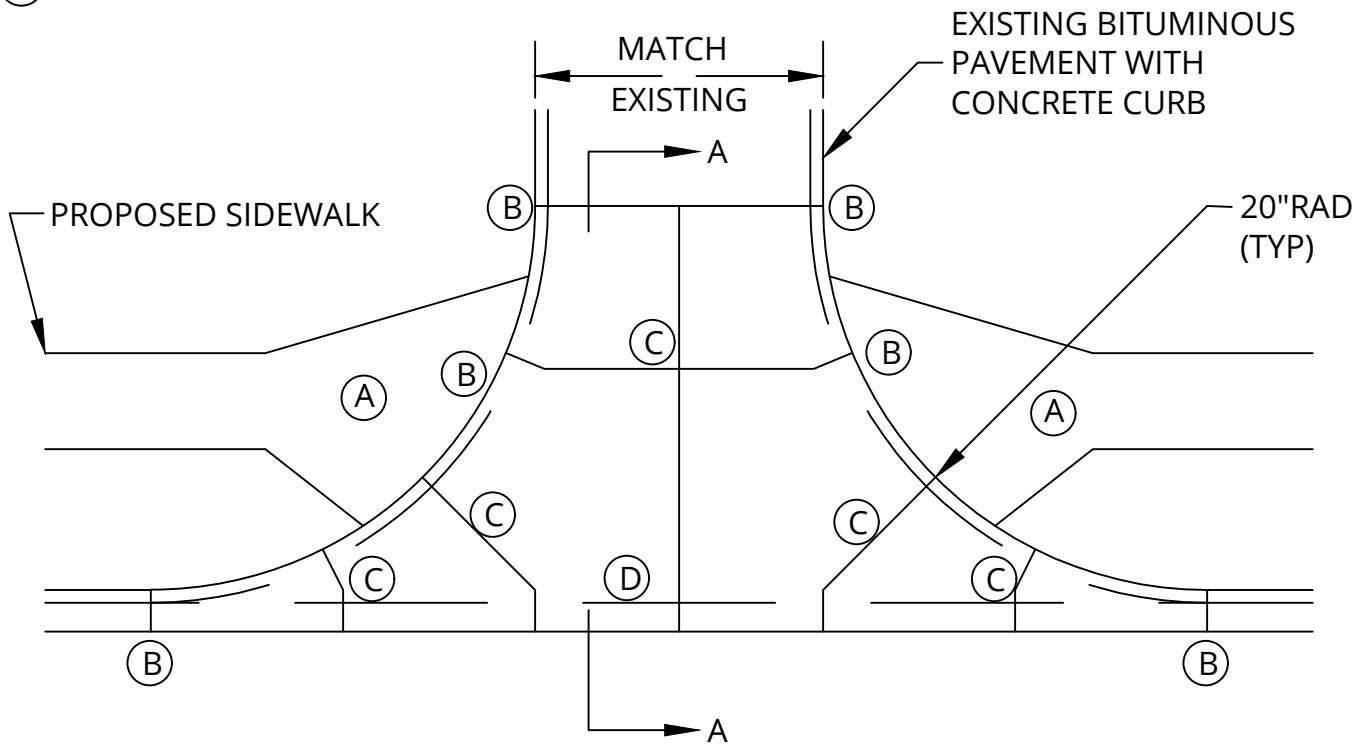
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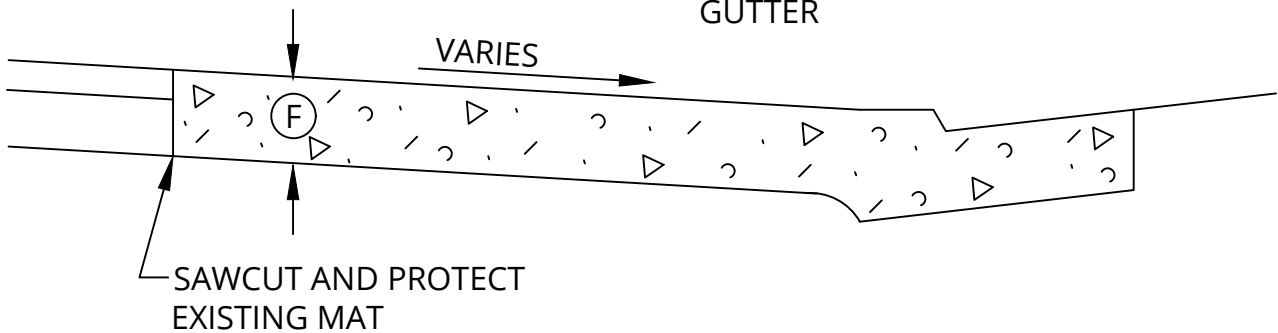
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NOTES:

- (A) -PEDESTRIAN CURB RAMP (FULL WIDTH OF SIDE WALK)
- (B) -EXPANSION JOINT
- (C) -FORMED CONTRACTION JOINT
- (D) -MAINTAIN GUTTER FLOW LINE
- (E) -DRIVEWAY MUST BE PLACED 1/2 AT A TIME TO ALLOW ACCESS TO SITE



- (F) - MINIMUM 6" CONCRETE, OR 3" BITUMINOUS WITH 6" AGGREGATE BASE OR MATCH EXISTING IF THICKER w/ VALLEY GUTTER



SECTION A-A
 COMMERCIAL/INDUSTRIAL
 DRIVEWAY

Plate No MI-1

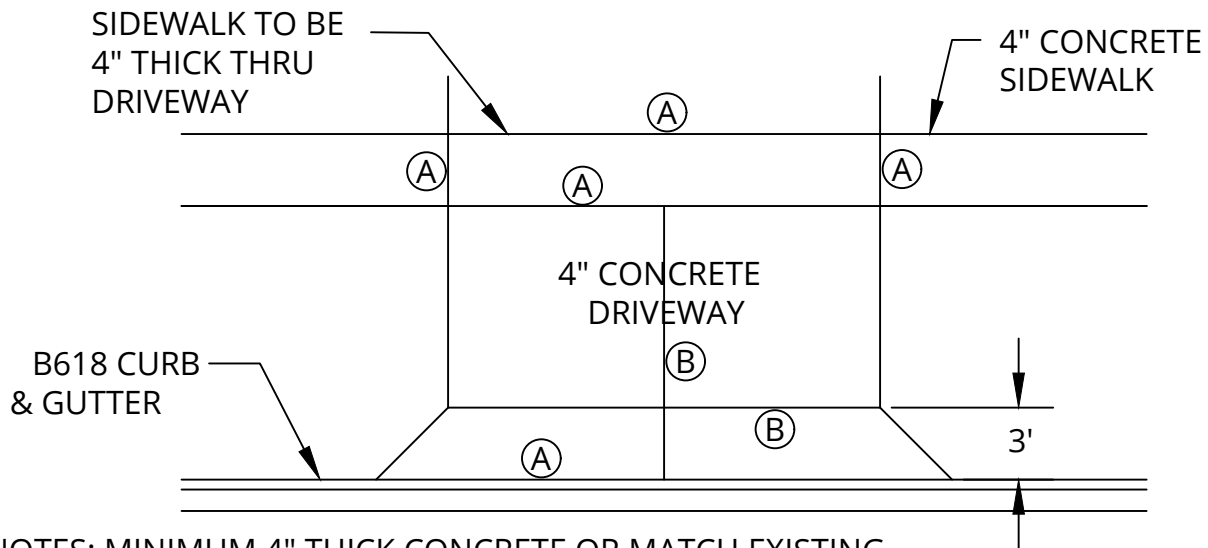
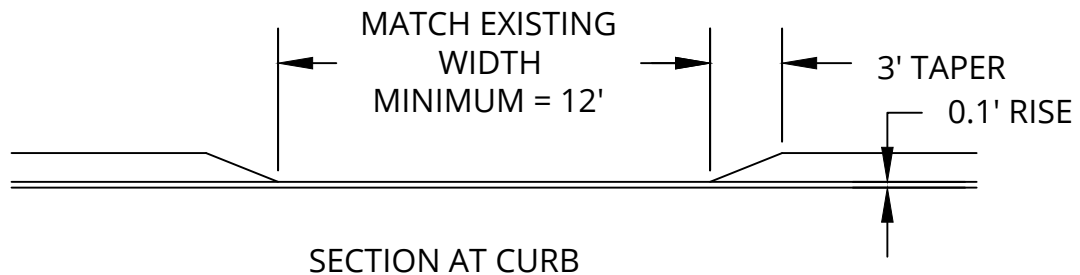
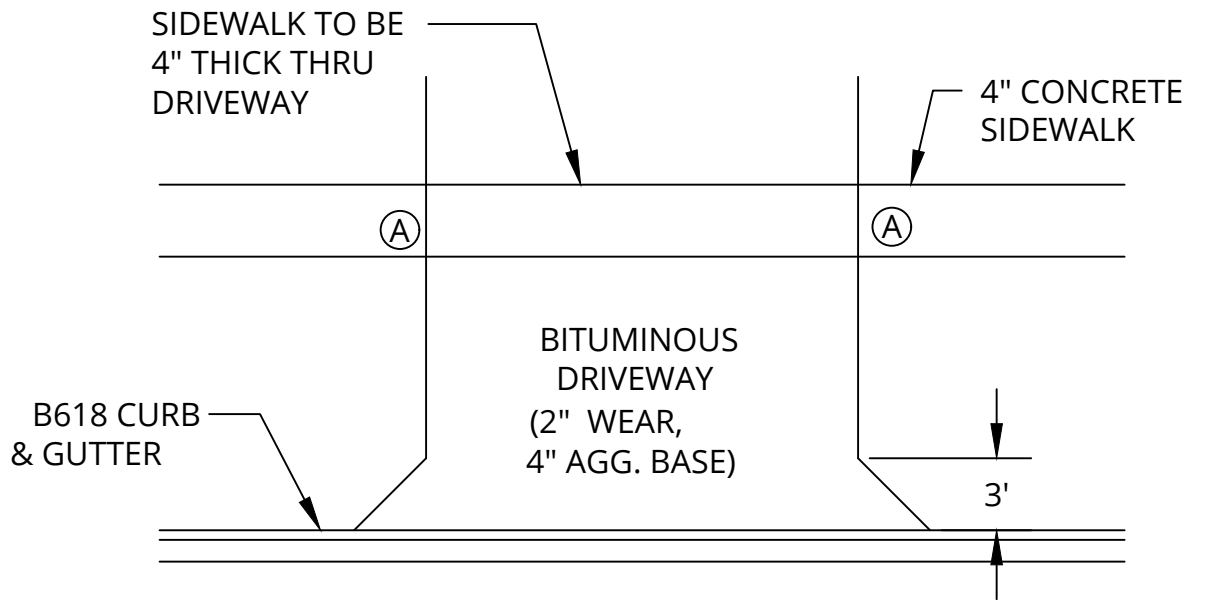


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NOTES: MINIMUM 4" THICK CONCRETE OR MATCH EXISTING.
REFER TO MNDOT STANDARD PLATE 7035 FOR MORE INFORMATION REGARDING JOINT CONSTRUCTION.

(A) - EXPANSION JOINT (B) - CONTRACTION JOINT
SEE CS-4 & CS-5 FOR DRIVEWAY WIDTH.

RESIDENTIAL DRIVEWAYS

Plate No. MI-2



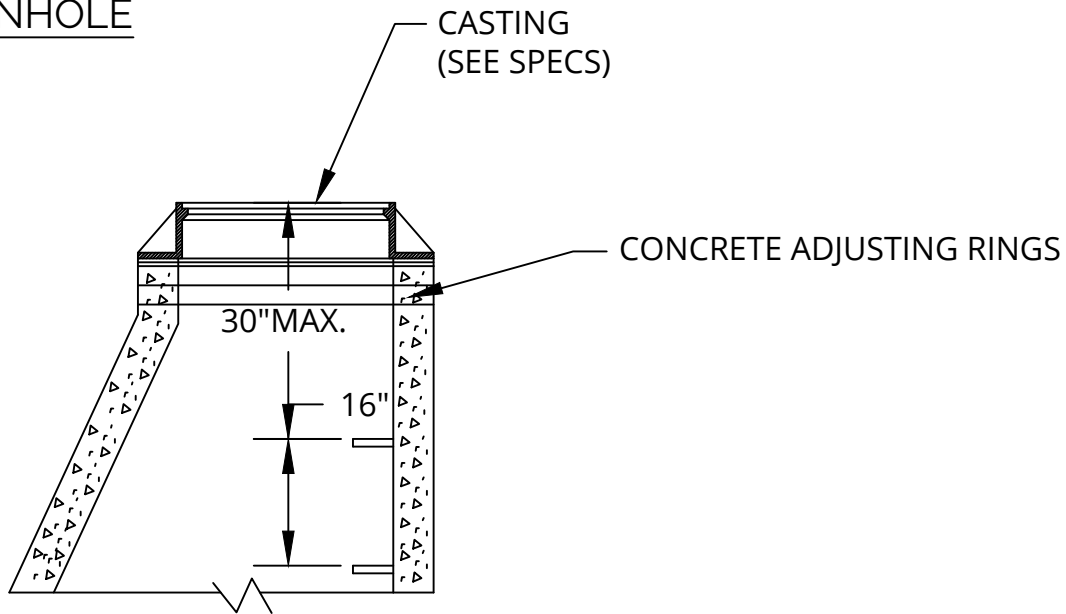
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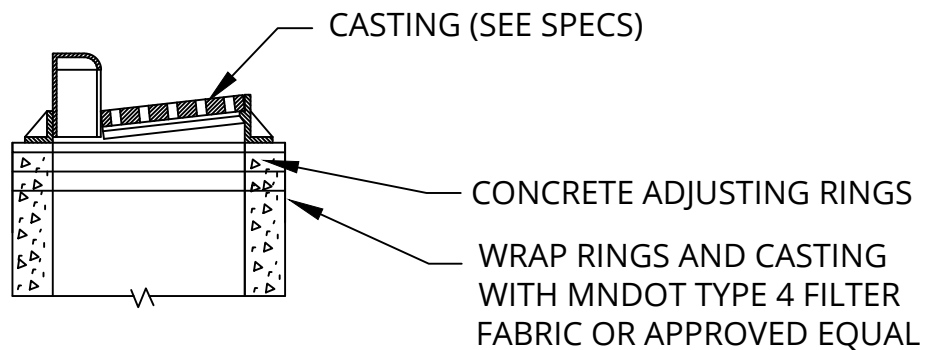
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MANHOLE



CATCHBASIN



NOTES:

1. USE MINIMUM OF 2-0.2' ADJUSTING RINGS, MAXIMUM OF 5-0.2' ADJUSTING RINGS, ALL SET IN MORTAR.
2. MANHOLE STEPS SHALL BE PER MNDOT PLATE 4180, TYPE W.
STEPS SHALL BE LOCATED ON UPSTREAM WALL FOR PIPE SIZES UP TO AND INCLUDING 15" AND ON SIDE WALL FOR GREATER THAN 15".
3. LIDS FOR SANITARY SEWER SHALL BE MARKED "SANITARY" AND LIDS FOR STORM SEWERS SHALL BE MARKED "STORM".
4. NO WOOD SHIMS WILL BE ALLOWED.

ADJUSTING RINGS & STEPS

Plate No. MI-3

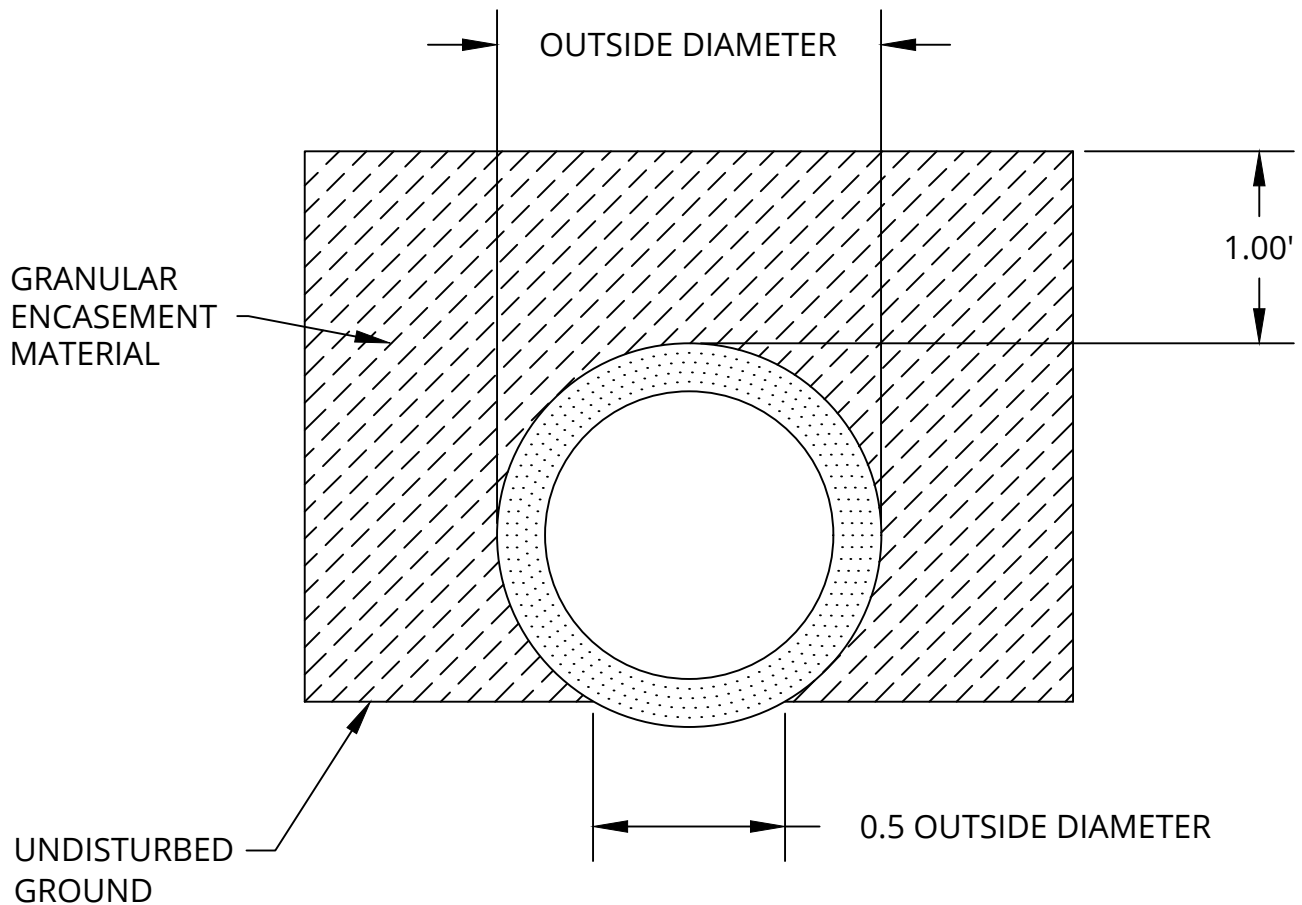


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NOTES:

1. THIS IS THE STANDARD PIPE BEDDING APPLICATION UNLESS OTHER BEDDING IS SPECIFIED.
2. THE BOTTOM OF THE TRENCH SHALL BE SHAPED TO FIT THE BARREL OF THE PIPE FOR AT LEAST 50% OF THE OUTSIDE DIAMETER OF THE PIPE. THE REMAINDER OF THE PIPE IS TO BE SURROUNDED TO A HEIGHT OF AT LEAST 1' ABOVE ITS TOP.
3. GRANULAR ENCASEMENT MATERIAL SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS.
4. NATIVE BLAINE GRANULAR MATERIAL IS CONSIDERED TO MEET THE INTENT OF THIS DETAIL.

CLASS C PIPE BEDDING

Plate No. MI-4

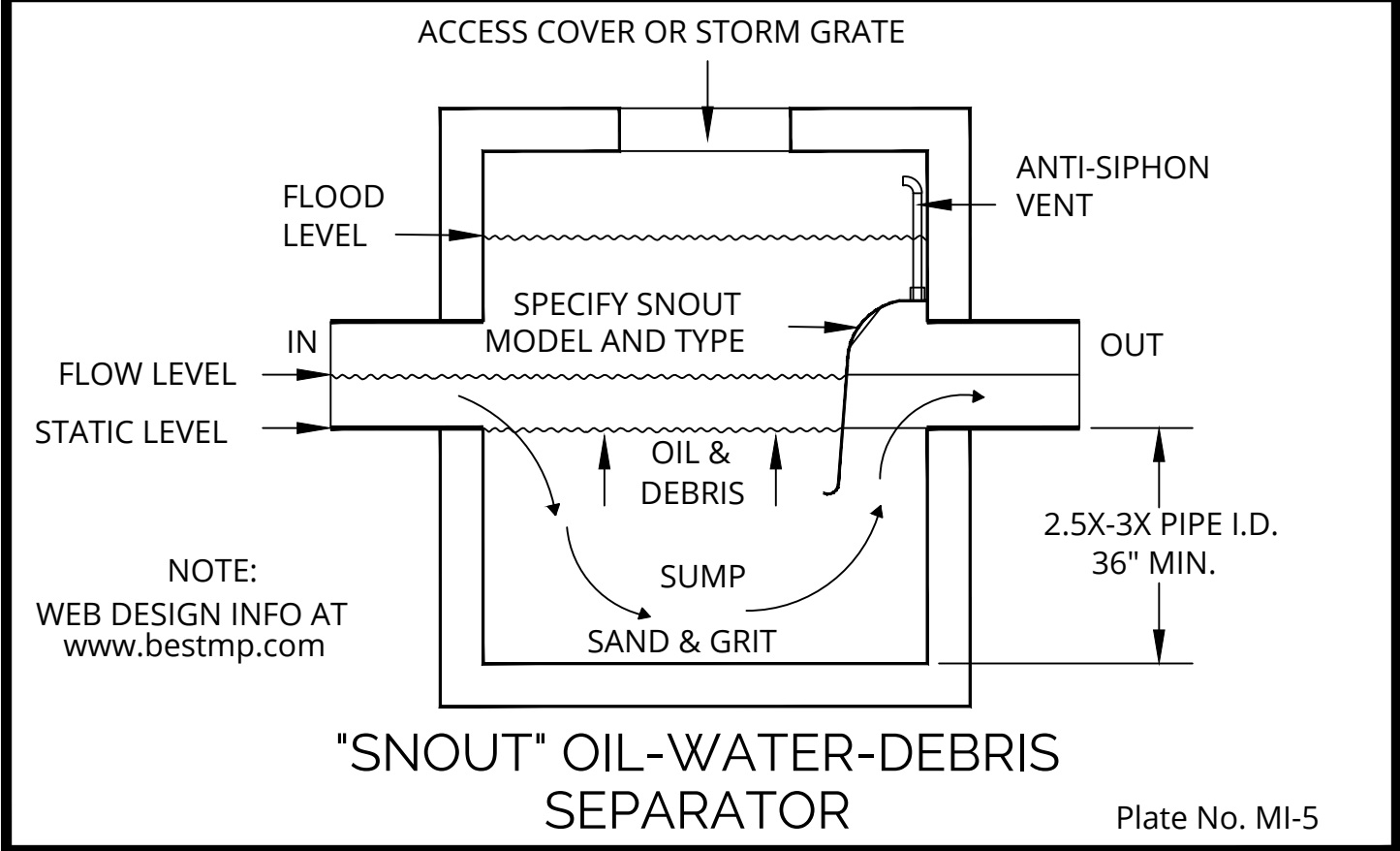
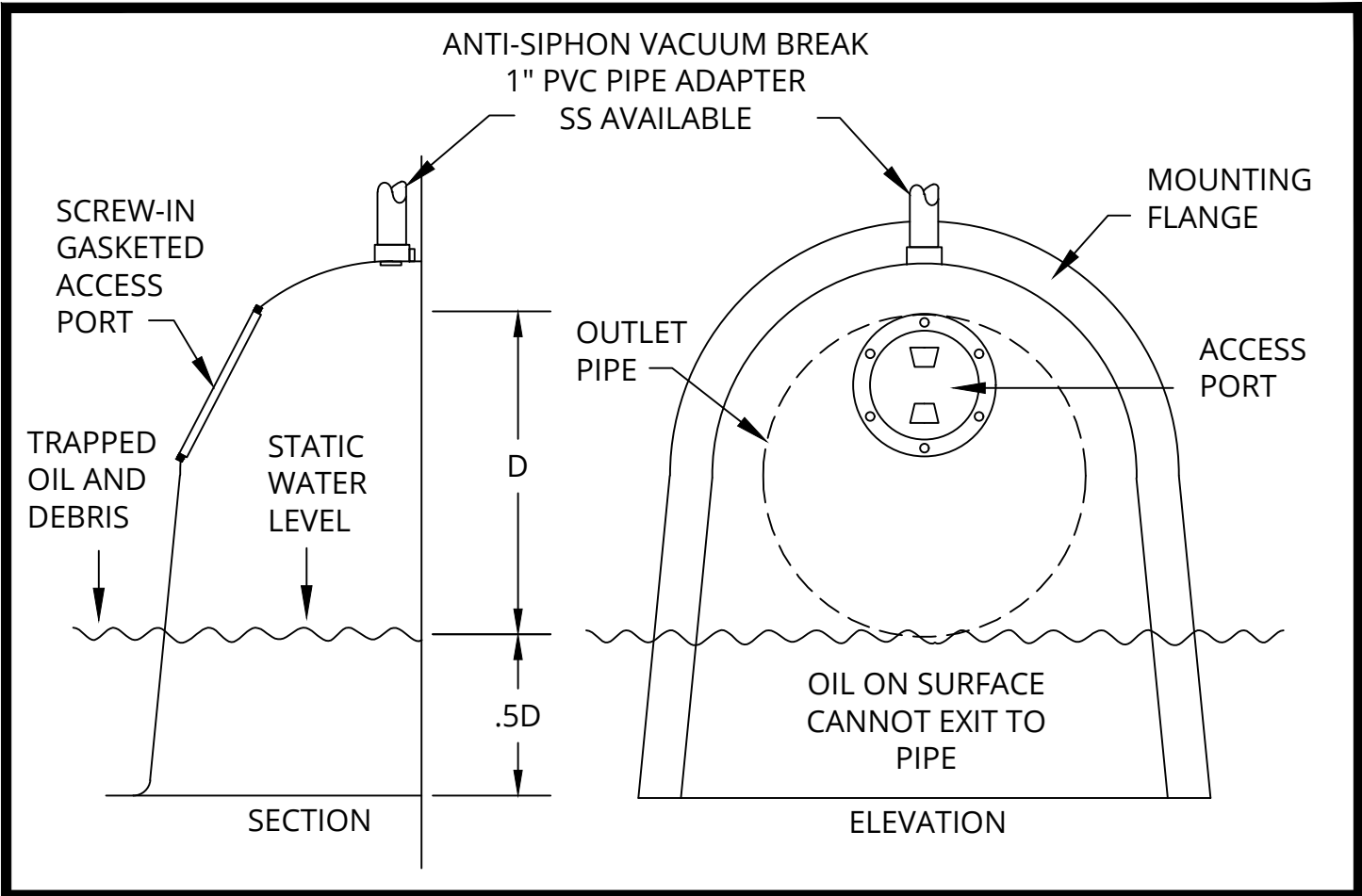


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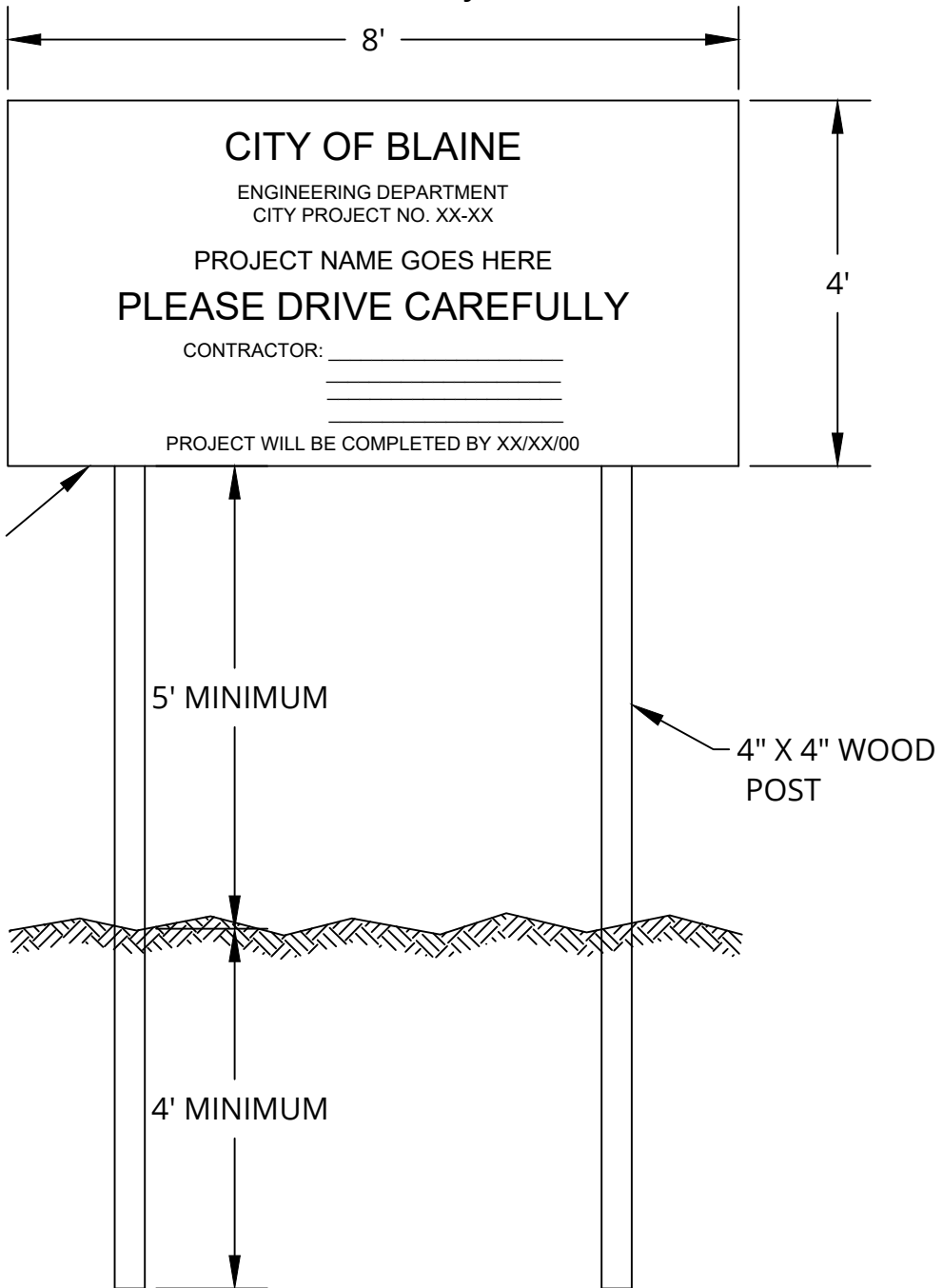
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NOTES:
 PROJECT SIGN SHALL BE LOCATED AS NOT TO IMPAIR THE VISION OF
 MOTORISTS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE
 PROJECT SIGN UPON COMPLETION OF THE PROJECT.



3/4" ALL WEATHER
 PLYWOOD, BLACK
 LETTERS ON WHITE
 BACKGROUND.

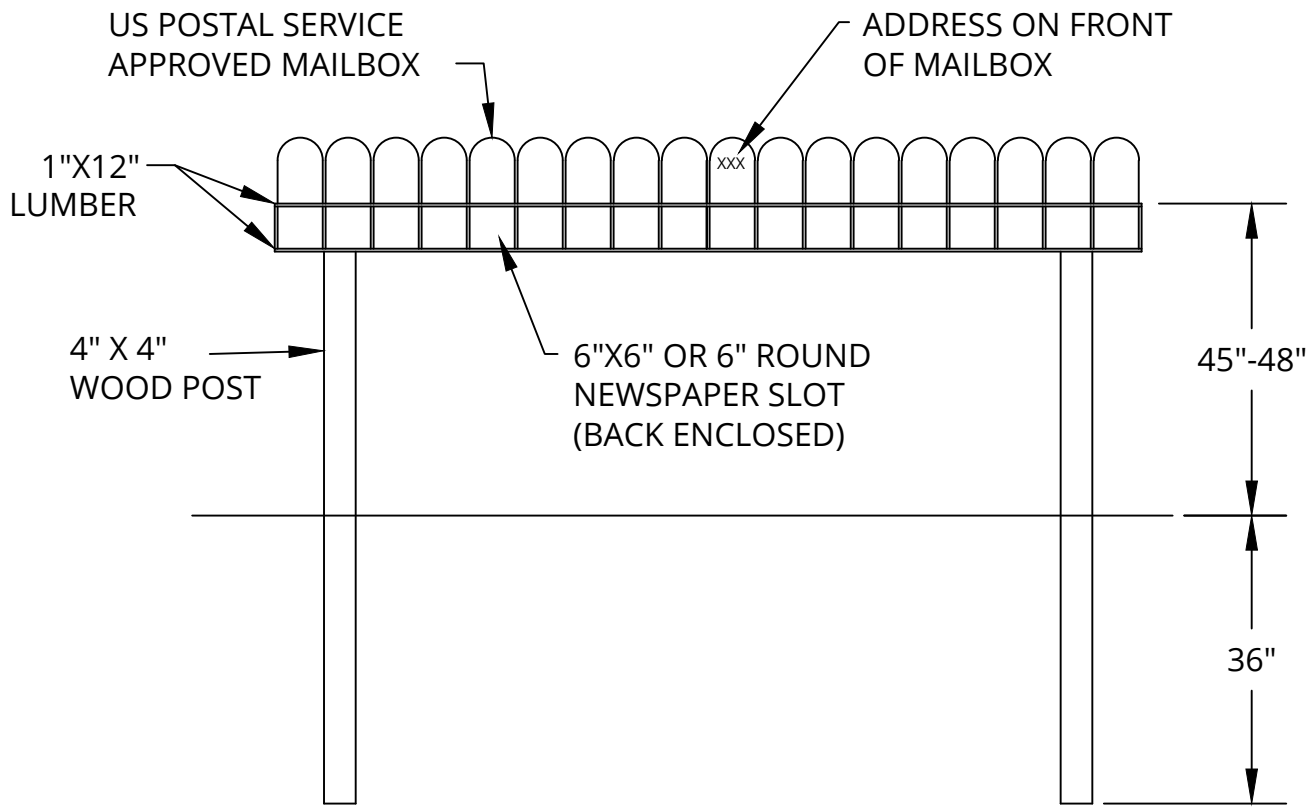
PROJECT SIGN

Plate No. MI-6

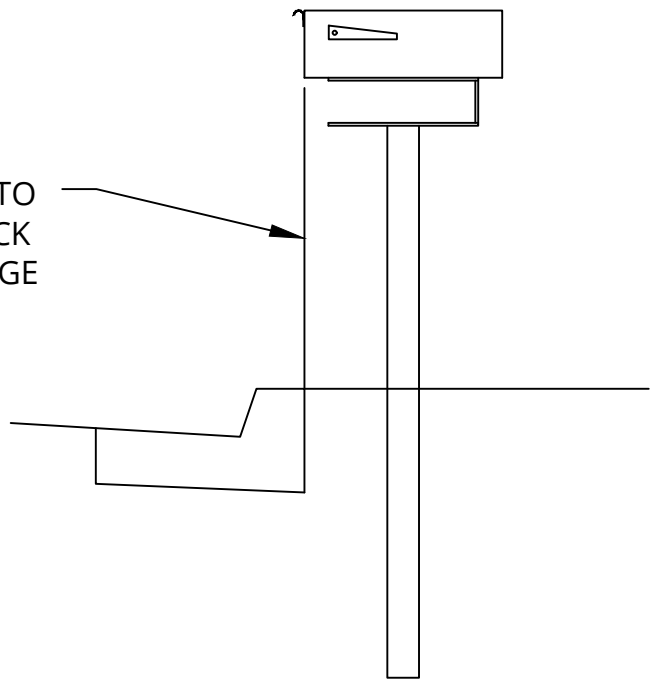


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FRONT OF MAILBOX TO BE INSTALLED AT BACK OF CURB LINE OR EDGE OF SHOULDER



TEMPORARY MAILBOX

Plate No. MI-7



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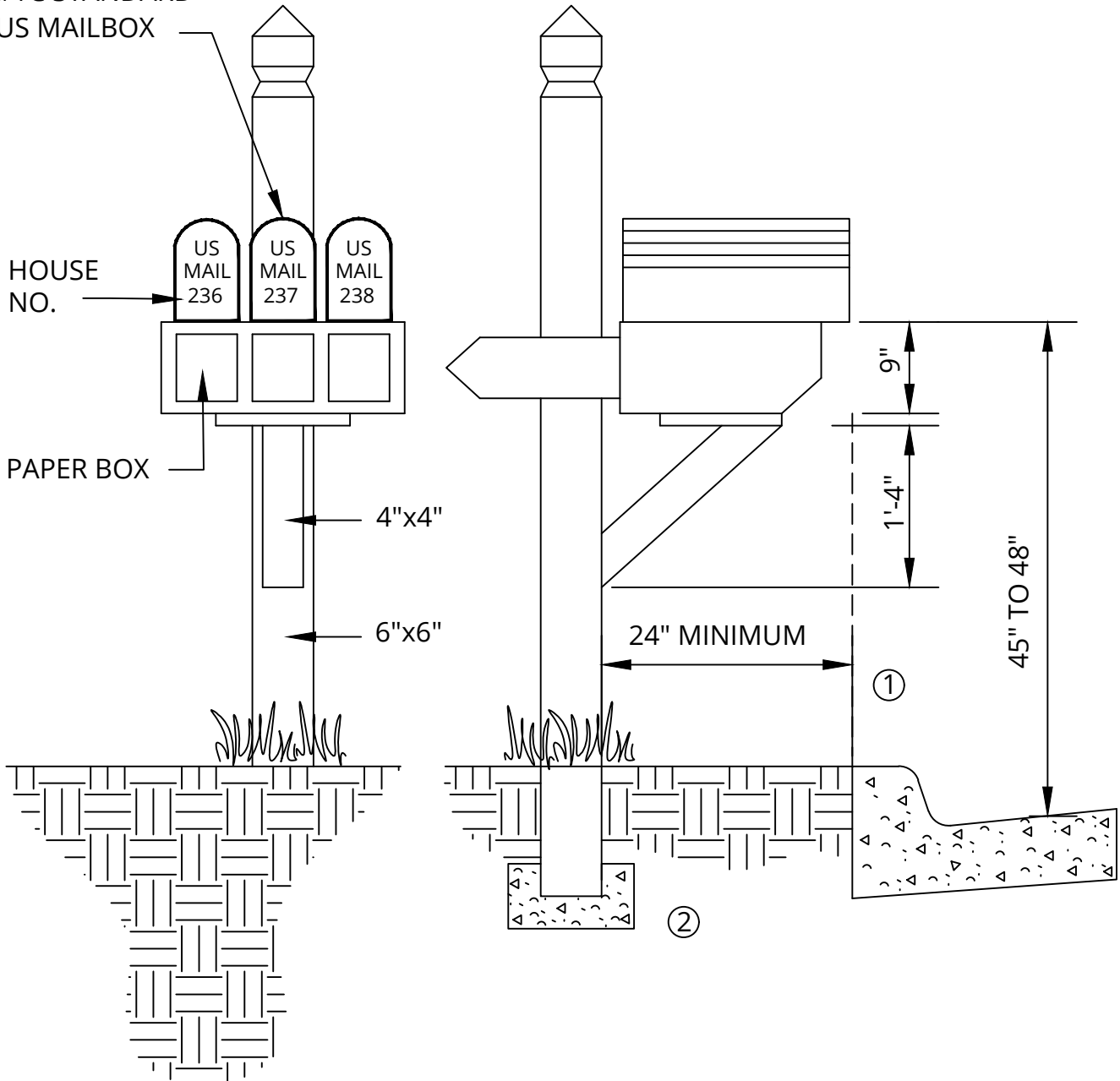
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- ① FRONT OF MAILBOX SHALL BE PLACED EVEN WITH BACK OF CURB.
- ② BOX, POST, FOUNDATION AND LAYOUT DESIGN MUST BE SUBMITTED TO ENGINEERING DEPARTMENT FOR APPROVAL.

#1C STANDARD
US MAILBOX

HOUSE
NO.

PAPER BOX



TYPICAL MAILBOX FOR NEW DEVELOPMENTS

Plate No. MI-8



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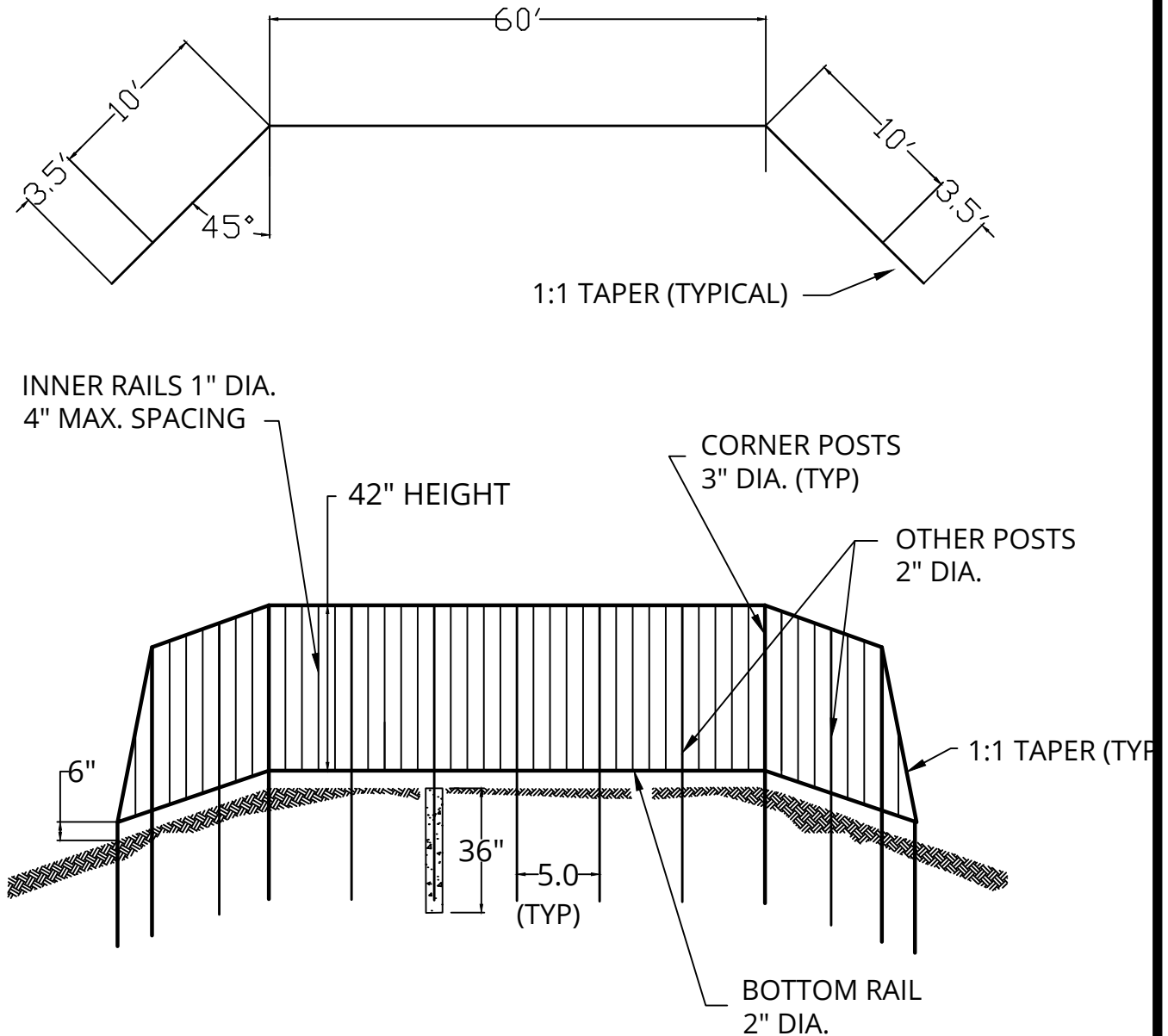
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STRUCTURE SHALL BE PAINTED WITH A RUST INHIBITIVE BLACK PAINT AFTER INSTALLATION.

USE STANDARD STEEL PIPE WITH WELDED CONNECTIONS CAPABLE OF WITHSTANDING 20 POUNDS PER LINEAL FOOT LATERAL PRESSURE AT ANY POINT.

MAXIMUM 4" OPENING BETWEEN POSTS AND/OR RAILS.



RAILING DETAIL

Plate No MI-9

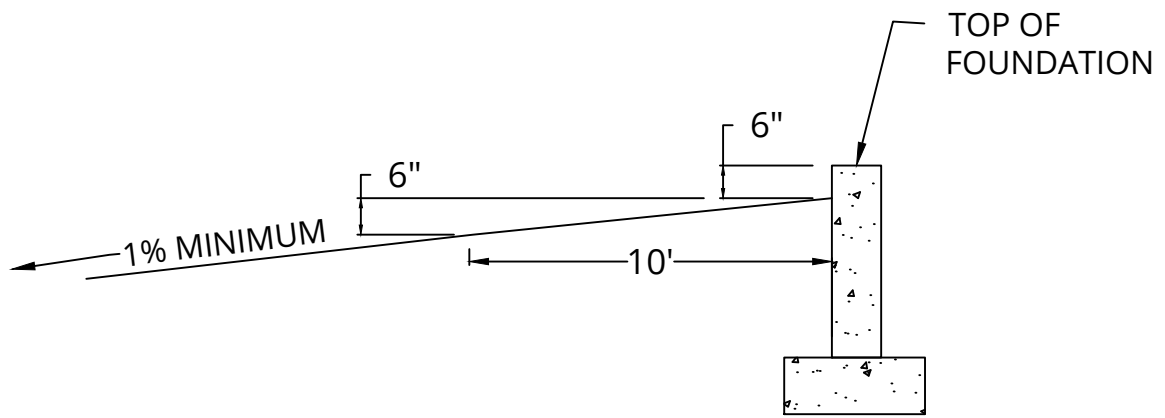


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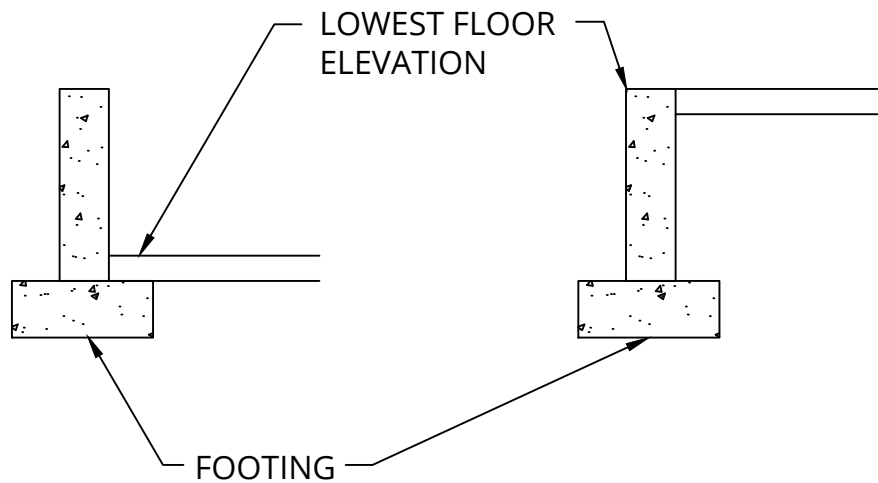
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TYPICAL SURFACE DRAINAGE AT HOUSE

FULL BASEMENT/
LOOKOUT/SPLIT ENTRY

WALKOUT



LOCATION OF LOWEST FLOOR AS-BUILT ELEVATION

NOTE: LOWEST FLOOR ELEVATION MUST BE AFTER FOUNDATION IS CONSTRUCTED. CALCULATED ELEVATIONS ARE NOT ACCEPTABLE.

GRADING DETAIL

Plate No. MI-10



2019 STANDARD DETAIL PLATE

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