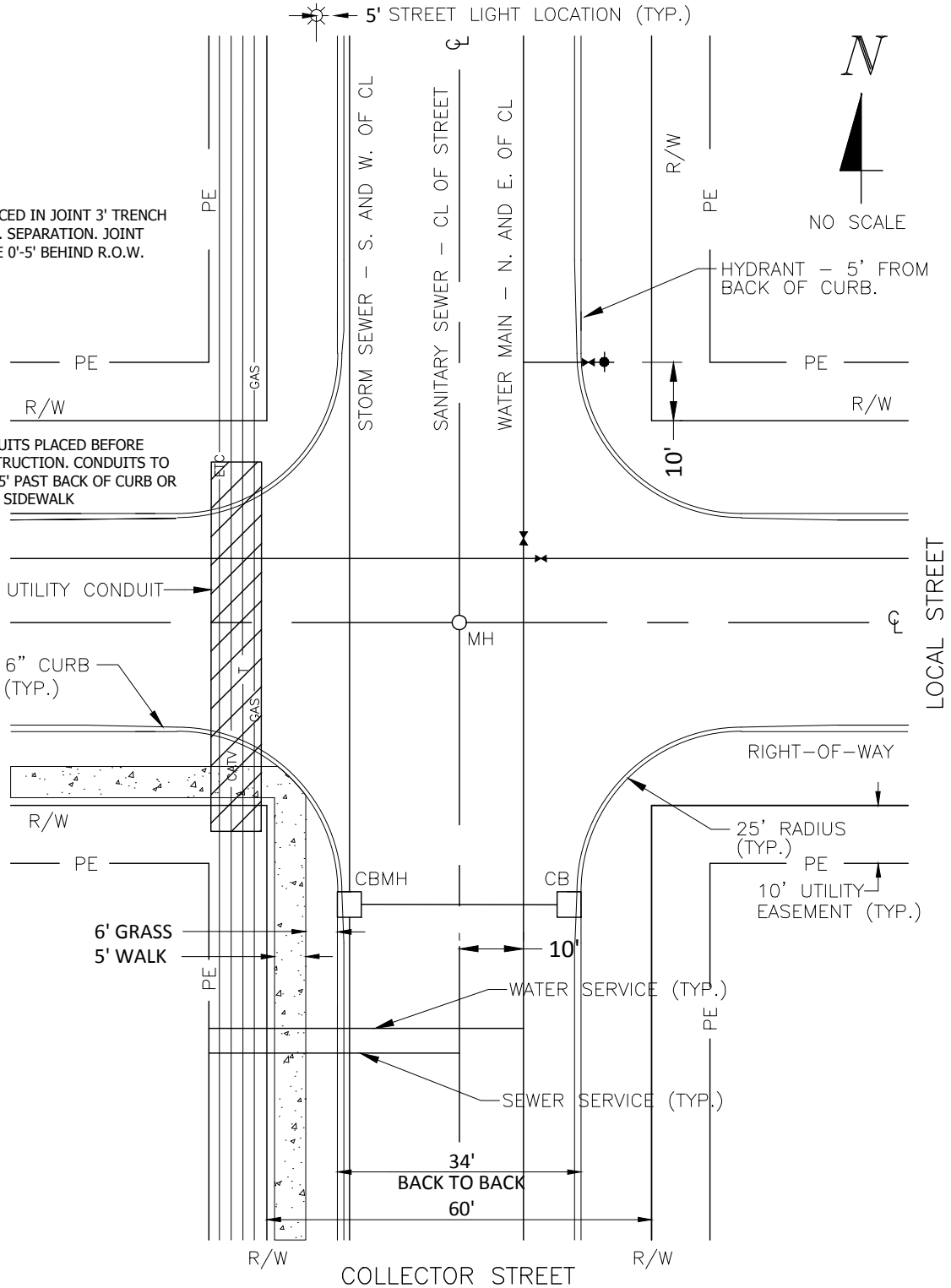


NOTE:
UTILITIES PLACED IN JOINT 3' TRENCH
WITH 12" MIN. SEPARATION. JOINT
TRENCH TO BE 0'-5' BEHIND R.O.W.

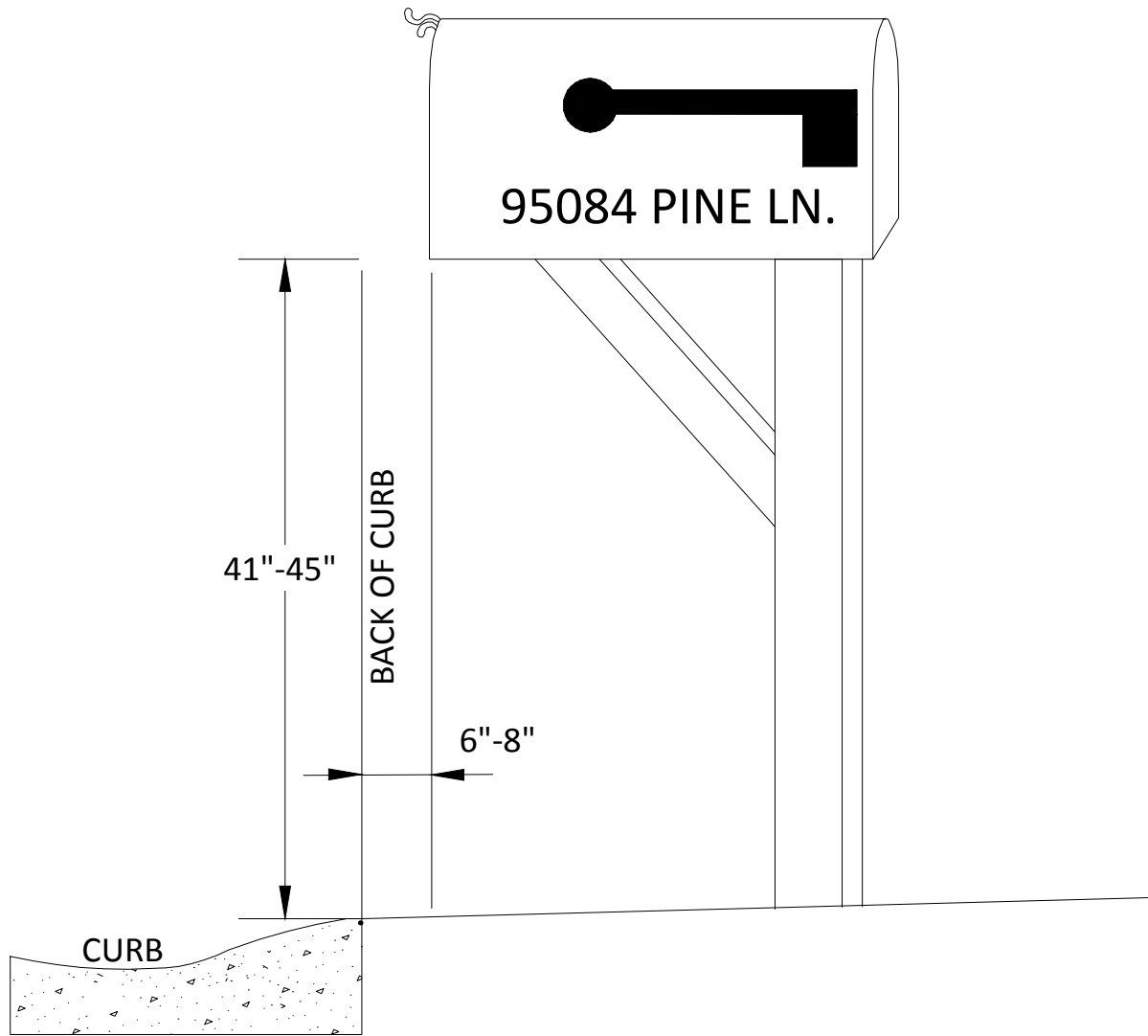
NOTE:
UTILITY CONDUITS PLACED BEFORE
STREET CONSTRUCTION. CONDUITS TO
BE EXTENDED 5' PAST BACK OF CURB OR
BACK EDGE OF SIDEWALK



STANDARD DETAILS
TYPICAL UTILITY LOCATIONS
PUBLIC AND PRIVATE

Revised
1/2019

Standard
Plate No.
GEN-1



NOTES:

1. HAVE BOX EXTEND AS FAR IN FRONT OF SUPPORT POST AS POSSIBLE (THIS IS TO PREVENT SNOW PLOW DAMAGE).
2. ADDRESS MUST BE ON THE SIDE OF BOX FROM WHICH CARRIER APPROACHES AND LETTERS A MINIMUM OF ONE INCH HIGH (OR ON THE FRONT WHEN BOXES ARE GROUPED).
3. BOX MUST BE LOCATED SO CARRIER CAN SERVE WITHOUT LEAVING THE VEHICLE.
4. FACE OF MAILBOX INSTALLED NO CLOSER THAN BACK OF CURB, NO FURTHER THAN 8" BEHIND BACK OF CURB.
5. ALL POSTS TO BE A MINIMUM OF 18" BEHIND THE BACK OF CURB.
6. DIMENSION PER U.S. POSTAL SERVICE.



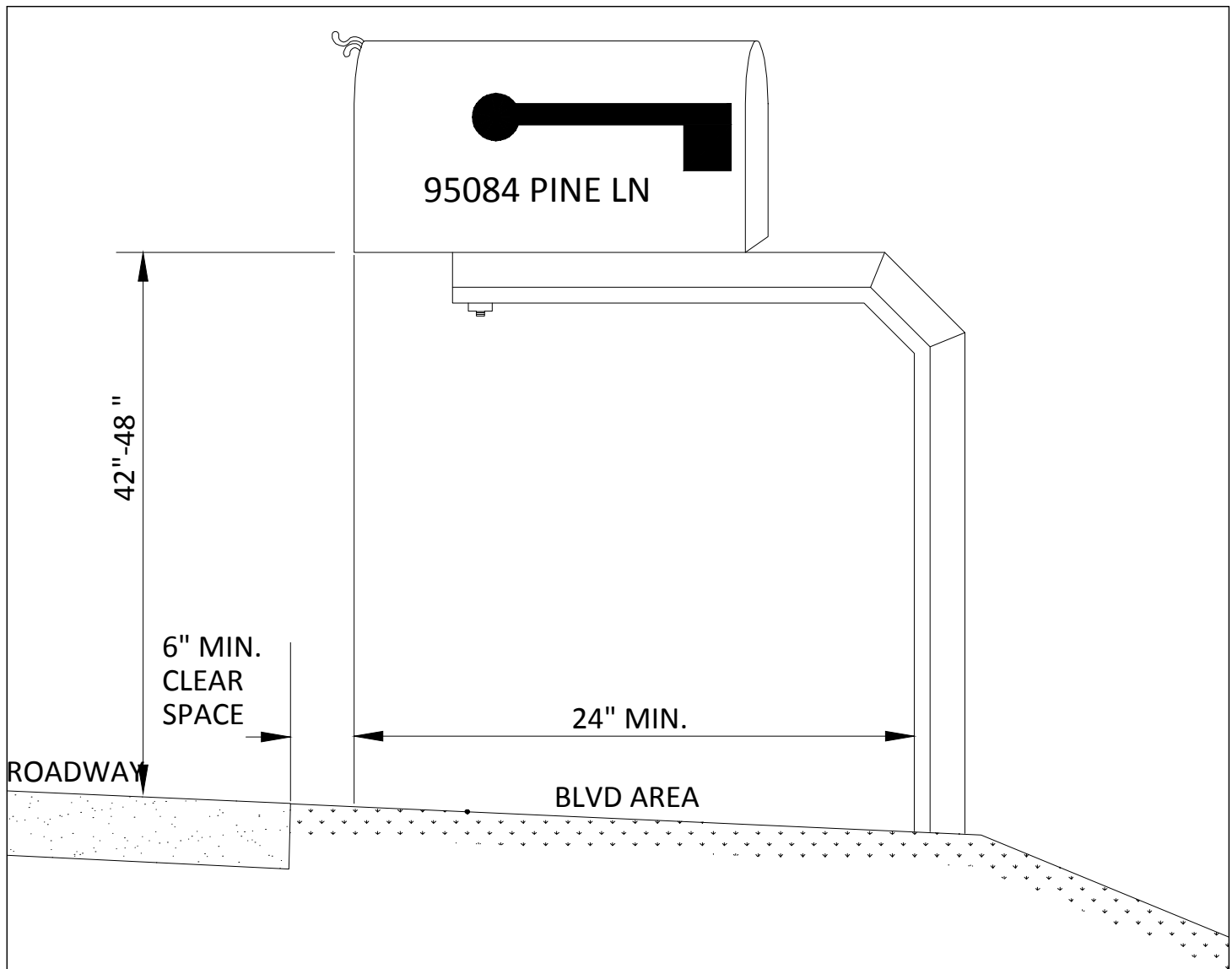
STANDARD DETAILS
MAILBOX
TYPICAL INSTALLATION

Revised

1/2019

Standard
Plate No.

GEN-2A



NOTES:

1. HAVE BOX EXTEND AS FAR IN FRONT OF SUPPORT POST AS POSSIBLE (THIS IS TO PREVENT SNOW PLOW DAMAGE).
2. ADDRESS MUST BE PLACED ON SIDE OF BOX FROM WHICH THE CARRIER APPROACHES IN LETTERS A MINIMUM OF 1" HIGH (OR ON THE FRONT WHERE BOXES ARE GROUPED).
3. BOX MUST BE LOCATED SO CARRIER CAN SERVE WITHOUT LEAVING THEIR VEHICLE.
4. DIMENSIONS PER U.S. POSTAL SERVICE.
5. INSTALL BREAK AWAY MAILBOX PER MNDOT STANDARD PLATE 9350A.



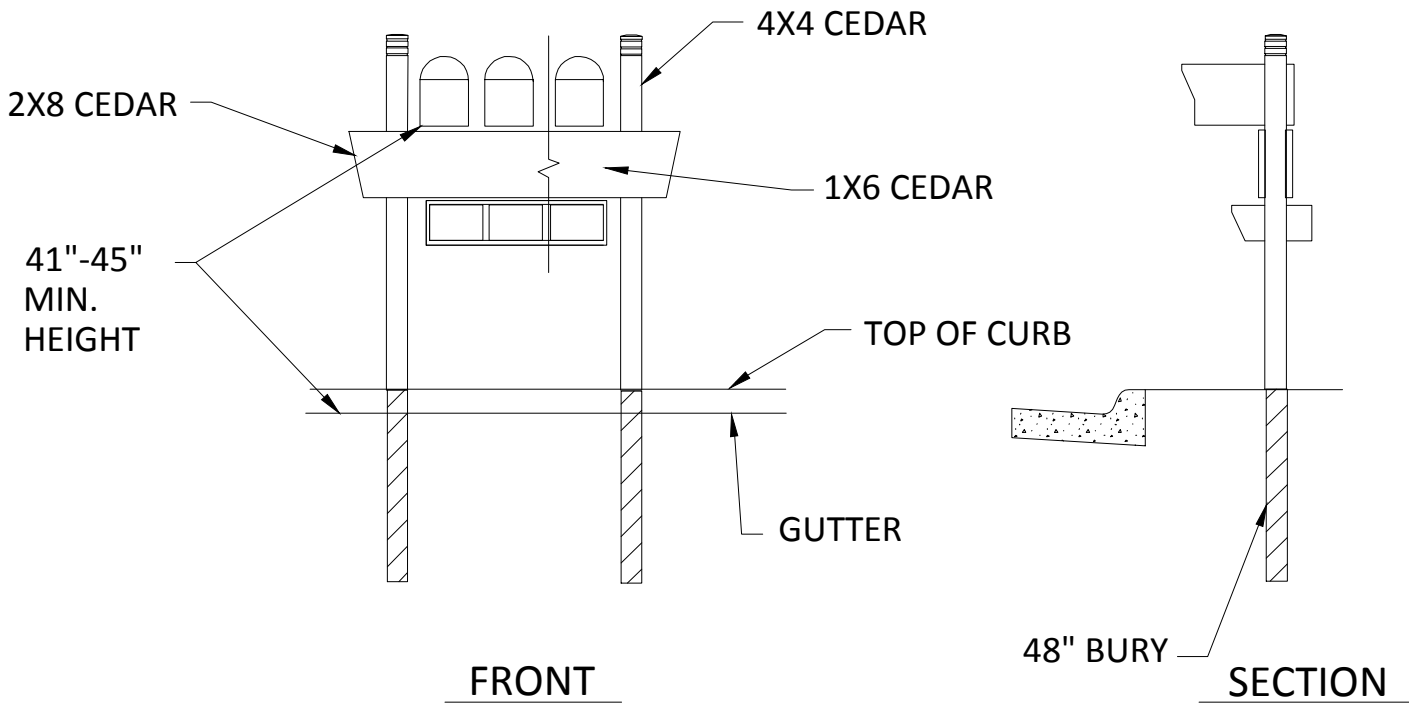
STANDARD DETAILS
RURAL MAILBOX
TYPICAL INSTALLATION

Revised

1/2019

Standard
Plate No.

GEN-2B



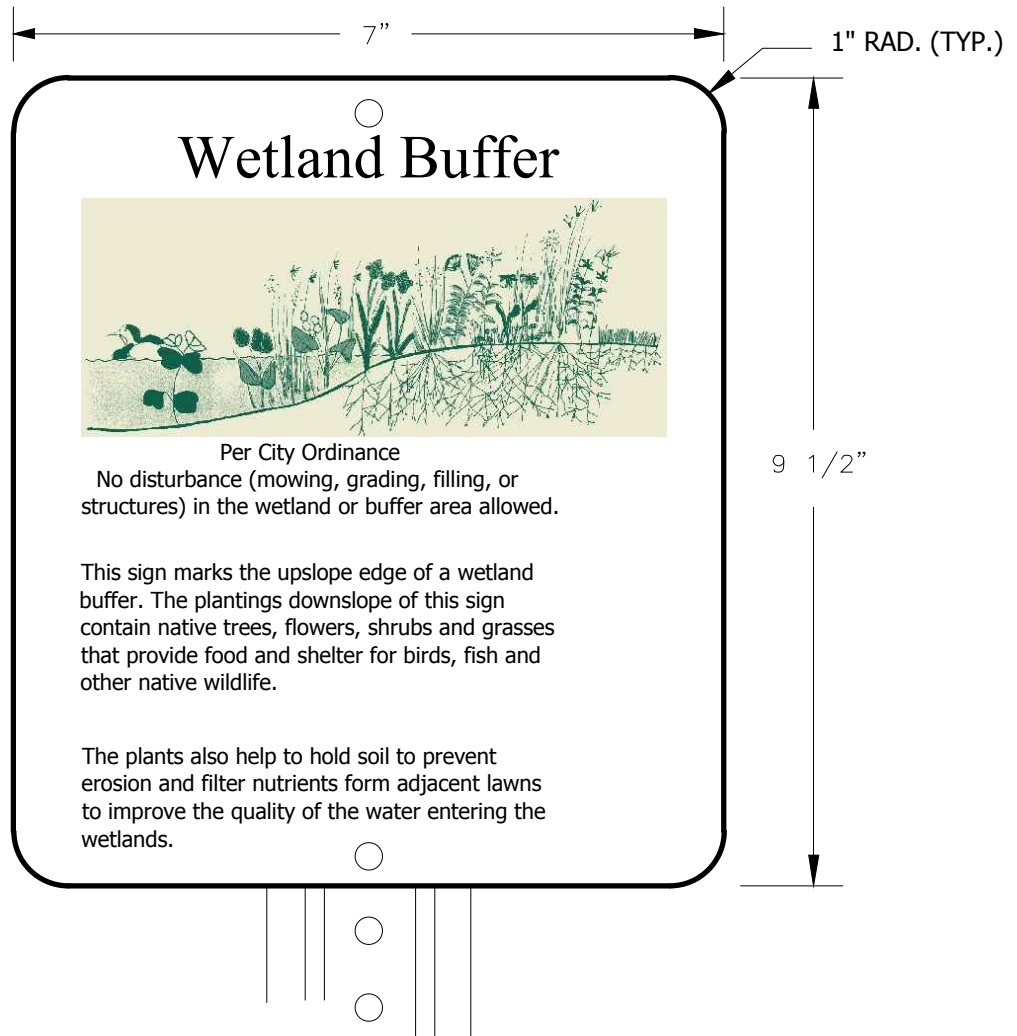
STANDARD DETAILS
MULTIPLE MAILBOX SUPPORT
WOOD STRUCTURE DESIGN

Revised

1/2019

Standard
Plate No.

GEN-2C



1. THE SIGN MUST BE:
 - a. 0.063 ALUMINUM BLANK,
 - b. BACKGROUND PANTONE: 155 (TAN)
 - c. BLACK VERBIAGE AND LOGO PRINTED ONE SIDE
 - d. PRE-DRILL HOLES IN MIDDLE TOP AND BOTTOM (AVOID VERBIAGE)
 - e. TRIM TO BORDER AS SHOWN ON SIGN ARTWORK TO INSURE ROUNDED CORNERS
2. THE MARKER SHALL CONSIST OF A FOUR INCH SQUARE TREATED, OR CEDAR POST, OR GREEN STEEL POST INSTALLED TO A HEIGHT OF FOUR FEET ABOVE GRADE, AND SET AT LEAST 42" INTO GROUND.
3. BOLT OR SCREW SIGN TO POST.
4. ONE SIGN SHALL BE PLACED PER LOT AT THE UPSLOPE EDGE OF THE REQUIRED BUFFER STRIP FOR THE WETLAND. PROPOSED LOCATIONS OF SIGNS SHALL BE SHOWN GRADING OR SITE PLAN. IN GENERAL, THE LOCATION OF SIGNS SHALL CAPTURE THE PORTION OF THE BUFFER THAT EXTENDS THE FURTHEST UPSLOPE INTO THE LOT. A PLAN THAT SHOWS THE LOCATION OF THE SIGN SHALL BE PROVIDED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.
5. ARTWORK AND VERBIAGE SHALL FACE PROPOSED HOME (STRUCTURE).
6. CONTACT CITY FOR POTENTIAL SIGN SOURCES.



STANDARD DETAILS

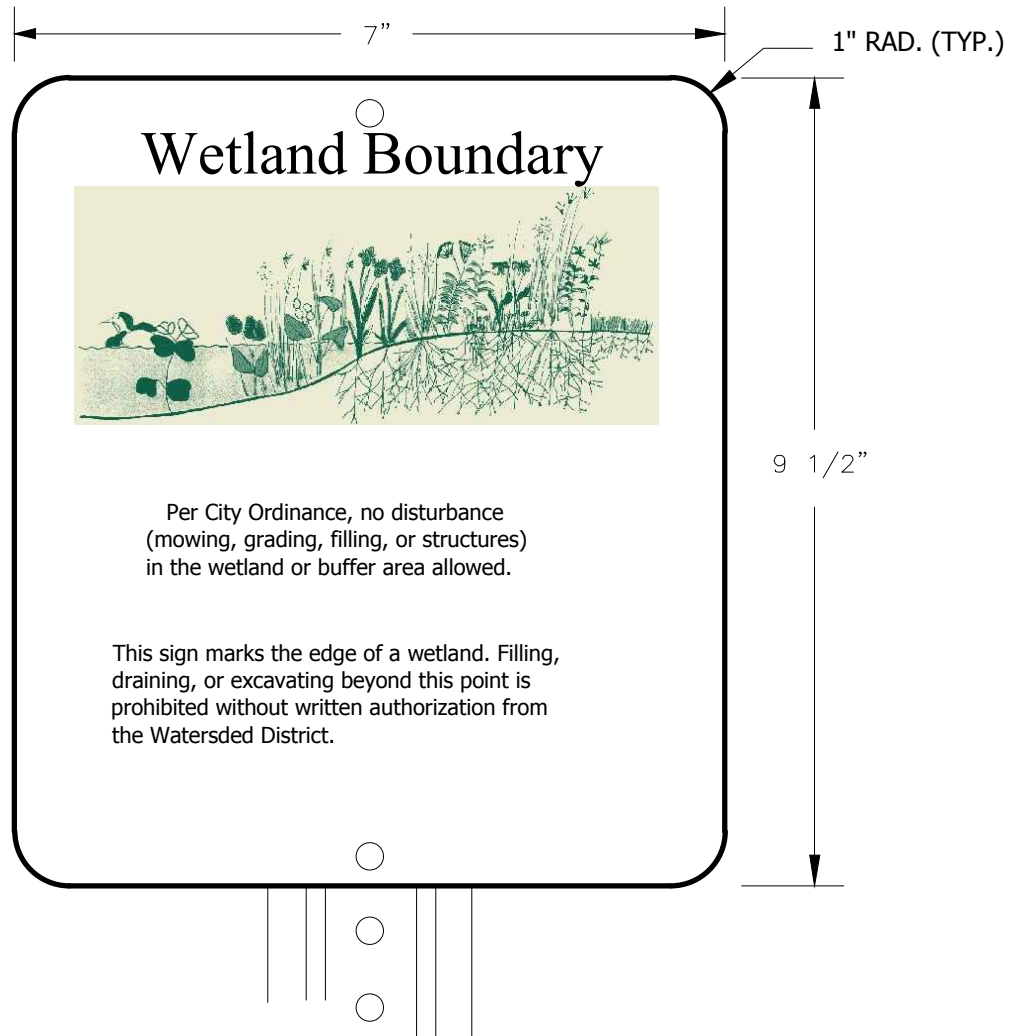
WETLAND BUFFER SIGN

Revised

1/2019

Standard Plate No.

GEN-3



1. THE SIGN MUST BE:
 - a. 0.063 ALUMINUM BLANK,
 - b. BACKGROUND PANTONE: 155 (TAN)
 - c. BLACK VERBIAGE AND LOGO PRINTED ONE SIDE
 - d. PRE-DRILL HOLES IN MIDDLE TOP AND BOTTOM (AVOID VERBIAGE)
 - e. TRIM TO BORDER AS SHOWN ON SIGN ARTWORK TO INSURE ROUNDED CORNERS
2. THE MARKER SHALL CONSIST OF A FOUR INCH SQUARE TREATED, OR CEDAR POST, OR GREEN STEEL POST INSTALLED TO A HEIGHT OF FOUR FEET ABOVE GRADE, AND SET AT LEAST 42" INTO GROUND.
3. BOLT OR SCREW SIGN TO POST.
4. ONE SIGN SHALL BE PLACED PER LOT AT THE UPSLOPE EDGE OF THE REQUIRED BUFFER STRIP FOR THE WETLAND. PROPOSED LOCATIONS OF SIGNS SHALL BE SHOWN GRADING OR SITE PLAN. IN GENERAL, THE LOCATION OF SIGNS SHALL CAPTURE THE PORTION OF THE BUFFER THAT EXTENDS THE FURTHEST UPSLOPE INTO THE LOT. A PLAN THAT SHOWS THE LOCATION OF THE SIGN SHALL BE PROVIDED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.
5. ARTWORK AND VERBIAGE SHALL FACE PROPOSED HOME (STRUCTURE).
6. CONTACT CITY FOR POTENTIAL SIGN SOURCES.



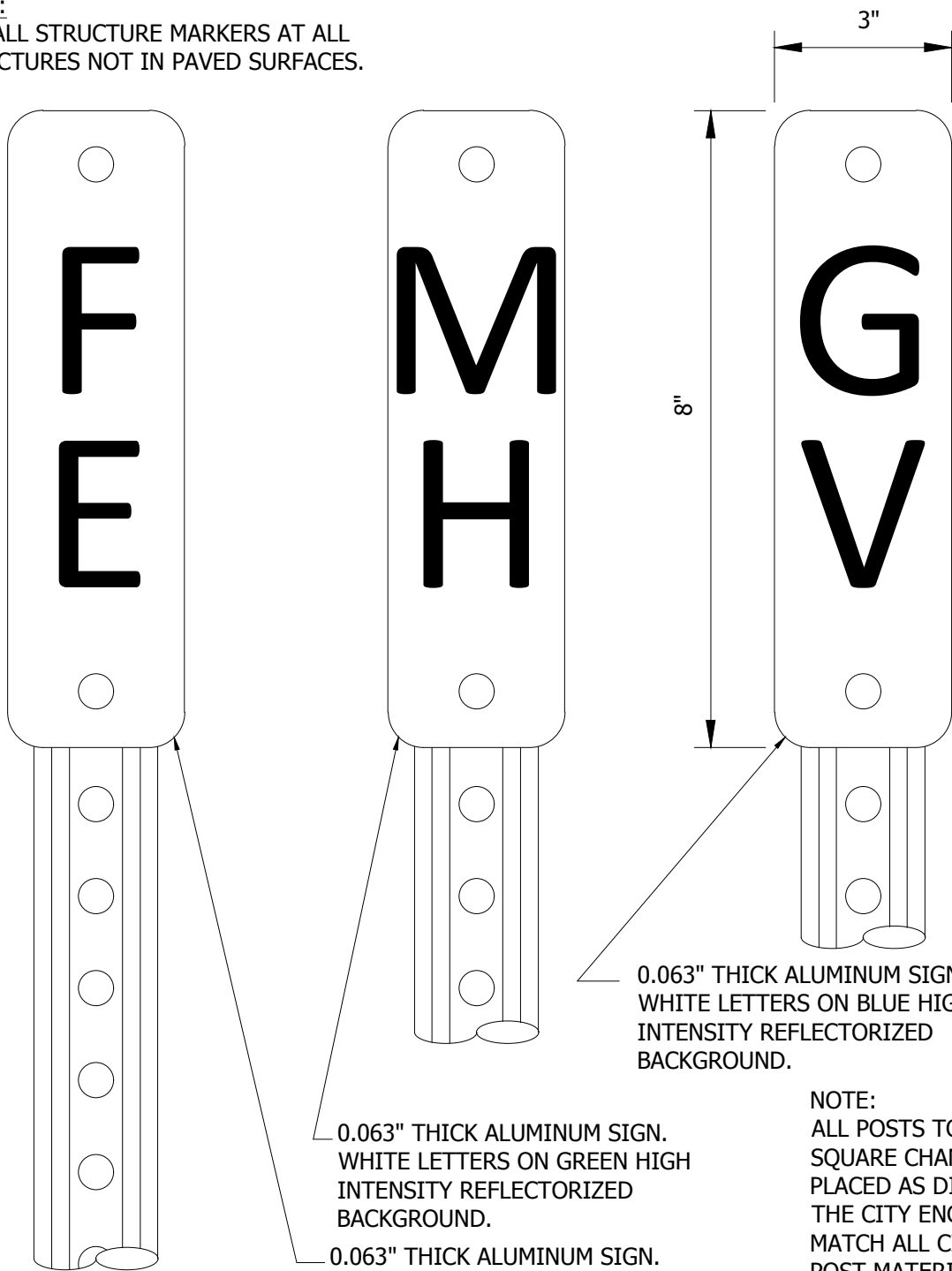
STANDARD DETAILS

WETLAND BOUNDARY SIGN

Revised
1/2019

Standard
Plate No.
GEN-4

NOTE:
 INSTALL STRUCTURE MARKERS AT ALL
 STRUCTURES NOT IN PAVED SURFACES.



0.063" THICK ALUMINUM SIGN.
 WHITE LETTERS ON GREEN HIGH
 INTENSITY REFLECTORIZED
 BACKGROUND.

0.063" THICK ALUMINUM SIGN.
 BLACK LETTERS ON WHITE HIGH
 INTENSITY REFLECTORIZED
 BACKGROUND.

0.063" THICK ALUMINUM SIGN.
 WHITE LETTERS ON BLUE HIGH
 INTENSITY REFLECTORIZED
 BACKGROUND.

NOTE:
 ALL POSTS TO BE 2"
 SQUARE CHANNEL, 8' LONG.
 PLACED AS DIRECTED BY
 THE CITY ENGINEER.
 MATCH ALL CITY SIGN
 POST MATERIALS AND
 INSTALLATION PRACTICES,
 SEE DETAIL PLATE STR-29.



STANDARD DETAILS
STRUCTURE MARKER SIGNS

Revised
 1/2019

Standard
 Plate No.
GEN-5



NOTES:

1. STREET LIGHT FIXTURE TO BE MANUFACTURED BY STERNBERG LIGHTING OR APPROVED EQUAL.
2. STREET LIGHT TO BE ARTISAN 1280 LED, 64 WATT/3040 LUMENS OR APPROVED EQUAL.
3. STREET LIGHT POLE TO BE 5" SQUARE, SMOOTH SHAFT, URBAN LINE SQUARE STRAIGHT ALUMINUM POLE SSA, WITH A MILLENIA SPLIT BASE MODEL ML900 TO FIT A 5" POLE OR APPROVED EQUAL.
4. LIGHT POLE TO EXTEND 12 TO 15 FEET ABOVE GROUND SURFACE.



STANDARD DETAILS
 STREET LIGHTING
 EXISTING REPLACEMENTS/
 DOWNTOWN AREAS

Revised

1/2019

Standard
 Plate No.

GEN-8



NOTES:

1. PEDESTRIAN STREET LIGHT FIXTURE TO BE MANUFACTURED BY STERNBERG LIGHTING OR APPROVED EQUAL.
2. PEDESTRIAN STREET LIGHT TO BE A 730LED, 23 WATT, PRAIRIE LIGHTED BOLLARD OR APPROVED EQUAL.
3. STANDARD OAH: 48" AG.



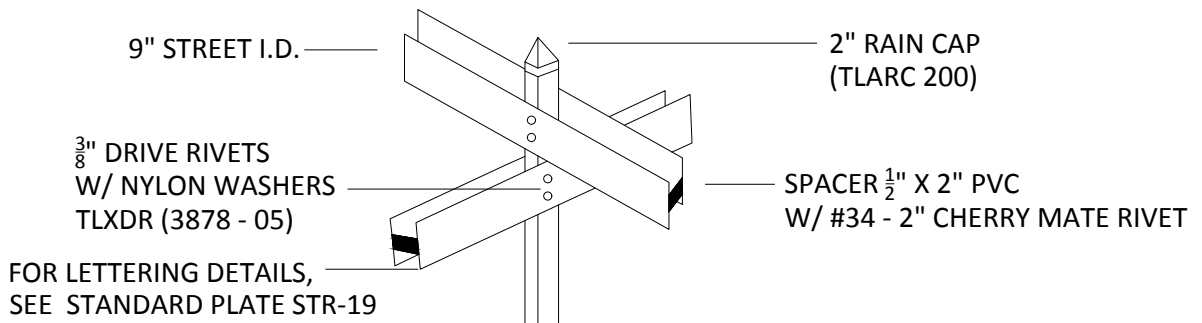
STANDARD DETAILS
PEDESTRIAN STREET LIGHTING
DOWNTOWN AREAS

Revised

1/2019

Standard
Plate No.

GEN-9



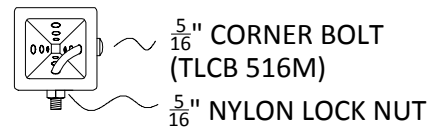
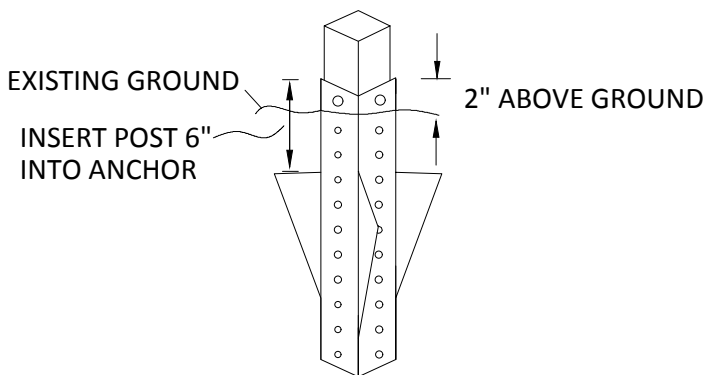
NOTE:
 SIGN POST TO BE A MINIMUM 3 FT BEHIND BACK OF CURB. THE CITY ENGINEER SHALL STAKE THE APPROXIMATE LOCATION FOR SIGN PLACEMENT. THE CONTRACTOR SHALL INSTALL SIGNS IN THESE LOCATION AND IN ACCORDANCE WITH (MMUTCD). IF THERE IS A CONFLICT WITH THE PROPOSED SIGN LOCATION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IMMEDIATELY.

POST 2" * 2" * 12' (20D12 - 12 - QP)

$\frac{5}{16}$ " CORNER BOLT W/ NYLON LOCK NUT (TLCB 516M)

STABILIZER
 $2\frac{1}{2}$ " * $2\frac{1}{2}$ " * 18" (24F12 - ODA - PG)

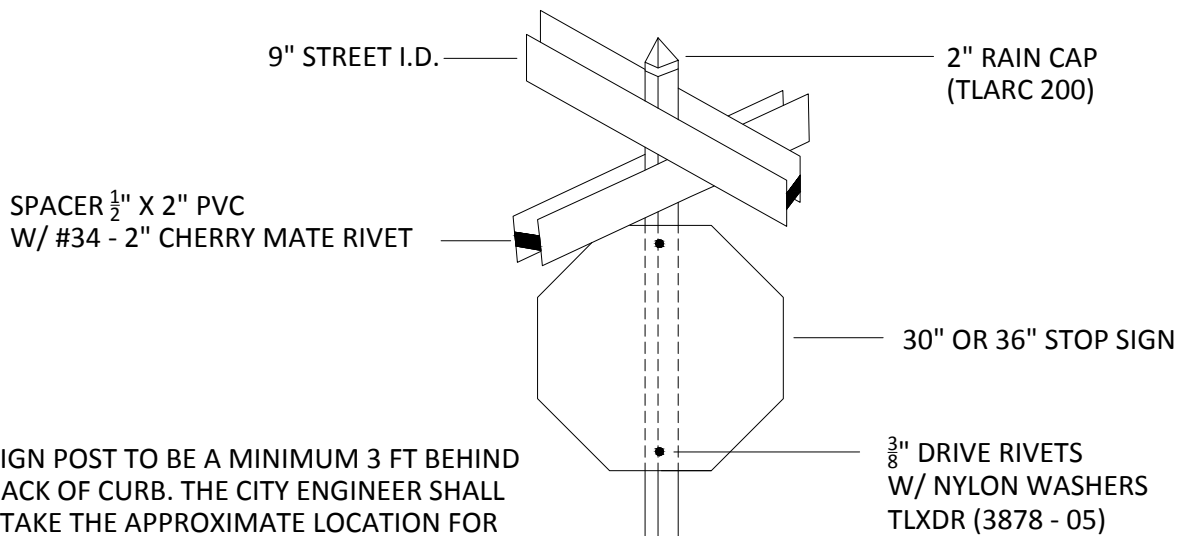
ANCHOR
 $2\frac{1}{4}$ " * $2\frac{1}{4}$ " * 4' (22F12 - 04 - PG)



STANDARD DETAILS
STREET SIGN INSTALLATION
STREET I.D. SIGNS

Revised
 1/2019

Standard Plate No.
GEN-10

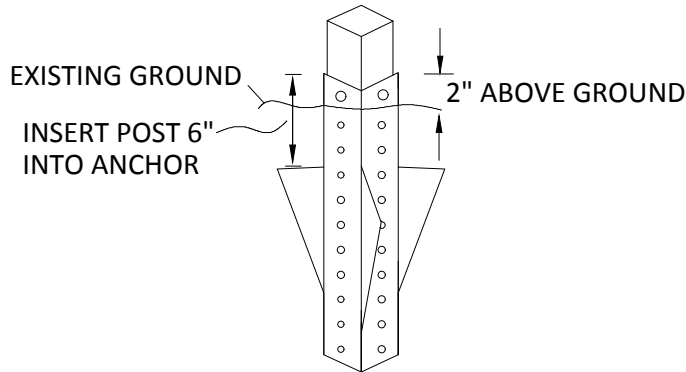


NOTE:

1. SIGN POST TO BE A MINIMUM 3 FT BEHIND BACK OF CURB. THE CITY ENGINEER SHALL STAKE THE APPROXIMATE LOCATION FOR SIGN PLACEMENT. THE CONTRACTOR SHALL INSTALL SIGNS IN THESE LOCATION AND IN ACCORDANCE WITH (MMUTCD). IF THERE IS A CONFLICT WITH THE PROPOSED SIGN LOCATION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IMMEDIATELY.
2. IF 3 STREET ID SIGNS ARE REQUIRED, POST SHALL BE 13 FT IN HEIGHT.

5/16" CORNER BOLT
W/ NYLON LOCK NUT
(TLCB 516M)

STABILIZER
2 1/2" * 2 1/2" * 18"
(24F12 - ODA - PG)



ANCHOR
2 1/4" * 2 1/4" * 4'
(22F12 - 04 - PG)

5/16" CORNER BOLT
(TLCB 516M)
5/16" NYLON LOCK NUT



STANDARD DETAILS
STREET SIGN INSTALLATION
STREET I.D. SIGNS W/ STOP SIGN

Revised
1/2019

Standard
Plate No.
GEN-11

$\frac{3}{8}$ " DRIVE RIVETS
W/ NYLON WASHERS
TLXDR (3878 - 05)

30" OR 36" STOP SIGN

NOTE:

1. SIGN POST TO BE A MINIMUM 3 FT BEHIND BACK OF CURB. THE CITY ENGINEER SHALL STAKE THE APPROXIMATE LOCATION FOR SIGN PLACEMENT. THE CONTRACTOR SHALL INSTALL SIGNS IN THESE LOCATION AND IN ACCORDANCE WITH (MMUTCD). IF THERE IS A CONFLICT WITH THE PROPOSED SIGN LOCATION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IMMEDIATELY.

POST 2" * 2" * 12'
(20D12 - 12 - QP)

$\frac{5}{16}$ " CORNER BOLT
W/ NYLON LOCK NUT
(TLCB 516M)

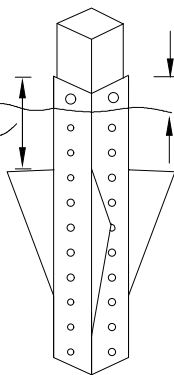
STABILIZER
 $2\frac{1}{2}$ " * $2\frac{1}{2}$ " * 18"
(24F12 - ODA - PG)

ANCHOR
 $2\frac{1}{4}$ " * $2\frac{1}{4}$ " * 4'
(22F12 - 04 - PG)

EXISTING GROUND

2" ABOVE GROUND

INSERT POST 6"
INTO ANCHOR



$\frac{5}{16}$ " CORNER BOLT
(TLCB 516M)

$\frac{5}{16}$ " NYLON LOCK NUT



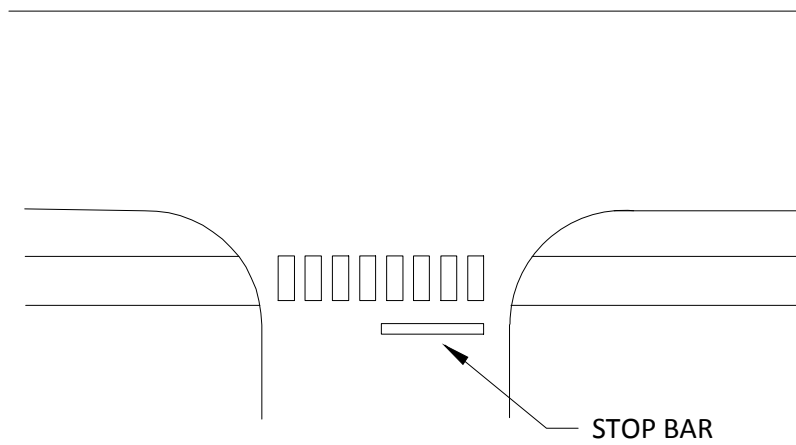
STANDARD DETAILS
STREET SIGN INSTALLATION
STOP SIGN

Revised

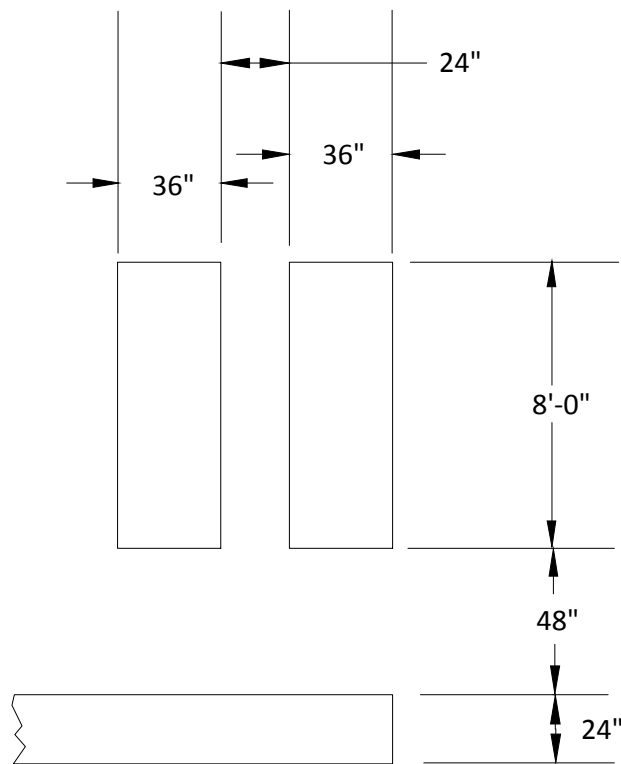
1/2019

Standard
Plate No.

GEN-12



TYPICAL INTERSECTION



PEDESTRIAN ZEBRA CROSSWALK MARKING DETAIL

NOTE:

1. ALL PAINT COLOR IS TO BE WHITE.
2. USE MNDOT SPECIFICATIONS FOR MUTI-COMP.
3. LAYOUT F CROSSWALK SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
4. POSITION SO SPACES ARE IN WHEEL PATHS.



STANDARD DETAILS
 CROSSWALK MARKING
 TYPICAL INSTALLATION

Revised
 1/2019

Standard
 Plate No.
GEN-13