

GROUND MOUNT DETAIL

PAVEMENT MOUNT DETAIL

SPLICE DETAIL

(A)	2 x 2 x var. (51 x 51 var.)
(B)	1 1/2 x 1 1/2 x 12 (44 x 44 x 300)
(C)	2 1/2 x 2 1/2 x 60 (57 x 57 x 1500)
(D)	2 1/2 x 2 1/2 x 18 (64 x 64 x 450)
(E)	2 1/2 x 2 1/2 x 36 (57 x 57 x 900)

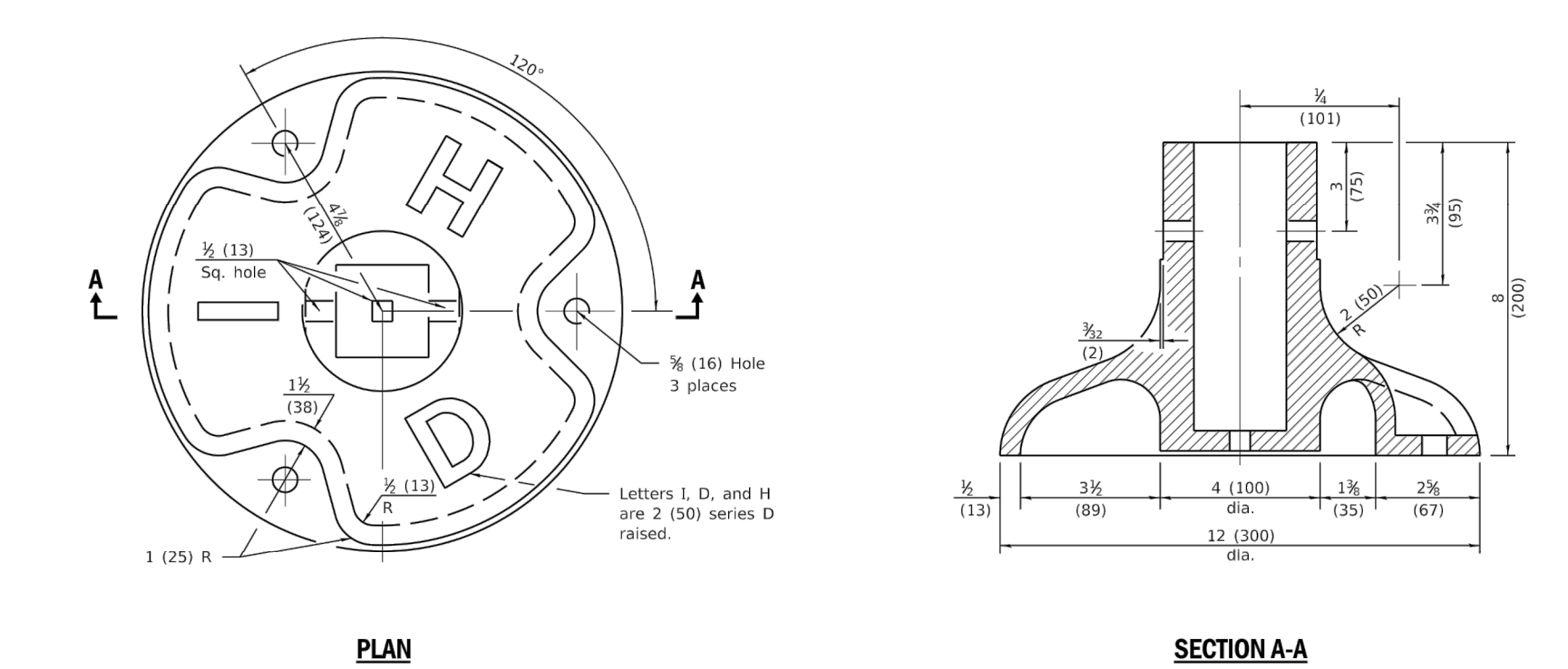
GENERAL NOTES
 All bolts 1/2" (M10) hex head zinc or cadmium plated.
 All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard. Used to be part of Standard 720006.

TELESCOPING STEEL SIGN SUPPORT

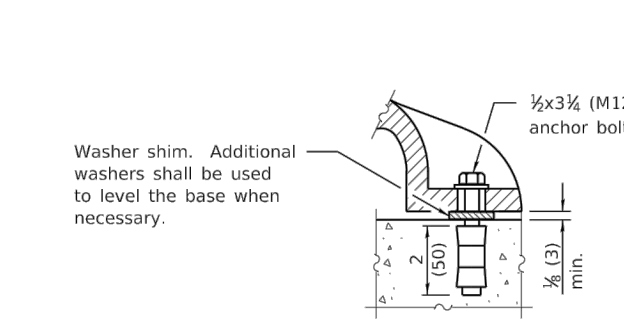
STANDARD 728001-01

Illinois Department of Transportation
 PASSED January 1, 2009
 ENGINEER OF OPERATIONS
 APPROVED January 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT

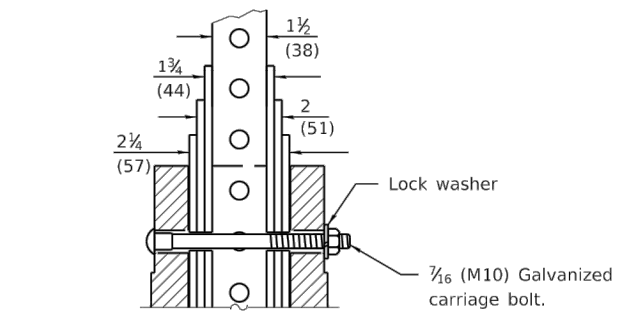


PLAN

SECTION A-A



ANCHOR BOLT DETAIL



POST ASSEMBLY DETAIL

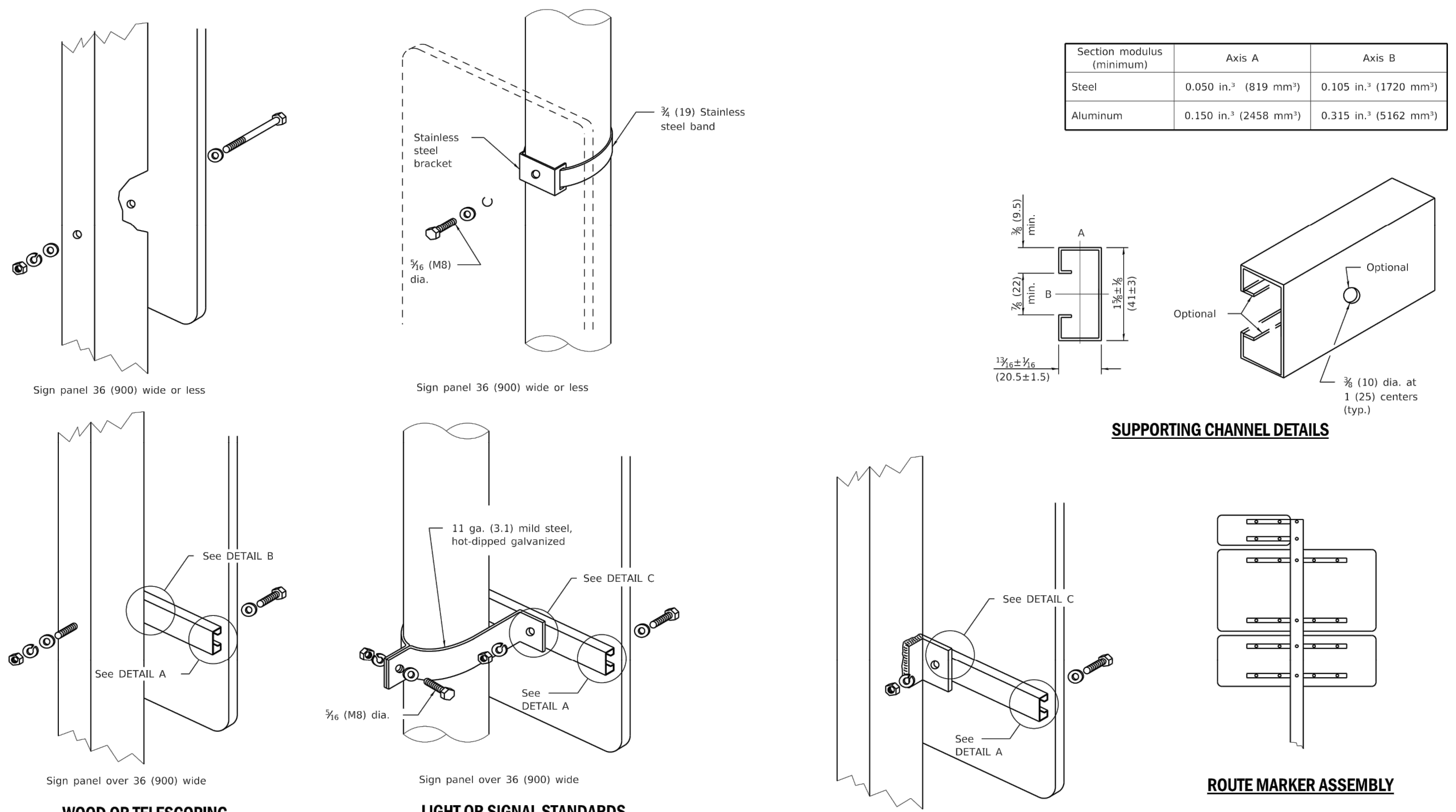
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-07	New Standard. Used to be part of Standard 720006.

BASE FOR TELESCOPING STEEL SIGN SUPPORT

STANDARD 731001-01

Illinois Department of Transportation
 PASSED January 1, 2009
 ENGINEER OF OPERATIONS
 APPROVED January 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT



SUPPORTING CHANNEL DETAILS

ROUTE MARKER ASSEMBLY

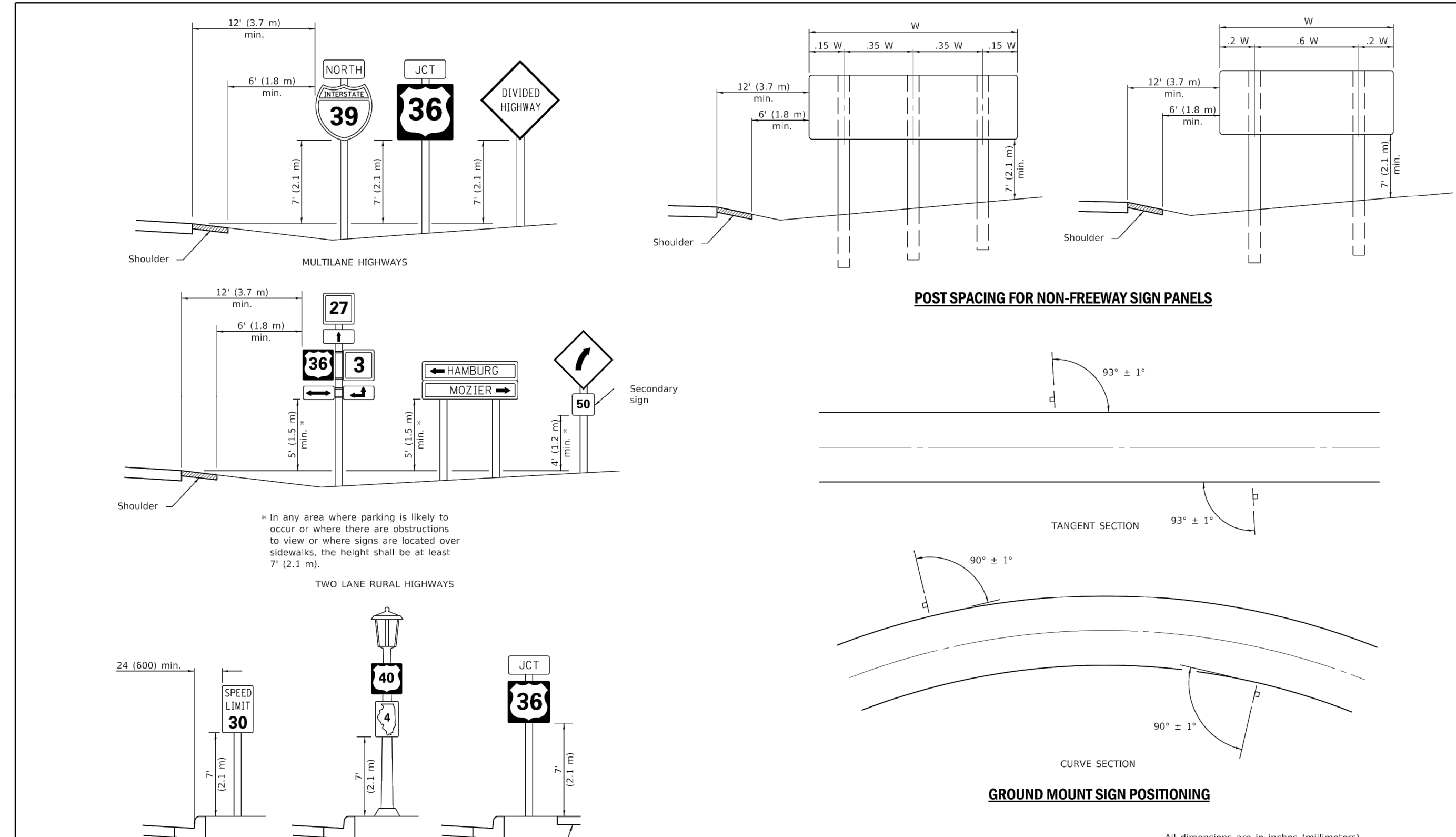
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-09	Switched units to English (metric).
1-1-97	Renum. Standard 2319-6.

SIGN PANEL MOUNTING DETAILS

STANDARD 720001-01

Illinois Department of Transportation
 PASSED January 1, 2009
 ENGINEER OF OPERATIONS
 APPROVED January 1, 2009
 ENGINEER OF DESIGN AND ENVIRONMENT



POST SPACING FOR NON-FREEWAY SIGN PANELS

TYPICAL INSTALLATIONS

GROUND MOUNT SIGN POSITIONING

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Added shoulders and slopes. Changed sign distances from roadway to shoulder.
1-1-12	Rev. sign elev. for multilane hwy's. Revised sign elev. and dist. to curb for rural loc.

SIGN PANEL ERECTION DETAILS

STANDARD 720006-04

Illinois Department of Transportation
 PASSED January 1, 2014
 ENGINEER OF OPERATIONS
 APPROVED January 1, 2014
 ENGINEER OF DESIGN AND ENVIRONMENT

2200 CABOT DRIVE
 SUITE 325
 LISLE, IL 60532
 P. 630.598.0007
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CAGE
 CIVIL ENGINEERING

AARON J. BRIDER
 LICENSED PROFESSIONAL ENGINEER
 No. 062-071413
 Signed: 08/30/2024
 Expires: 11/30/2025

REVISIONS

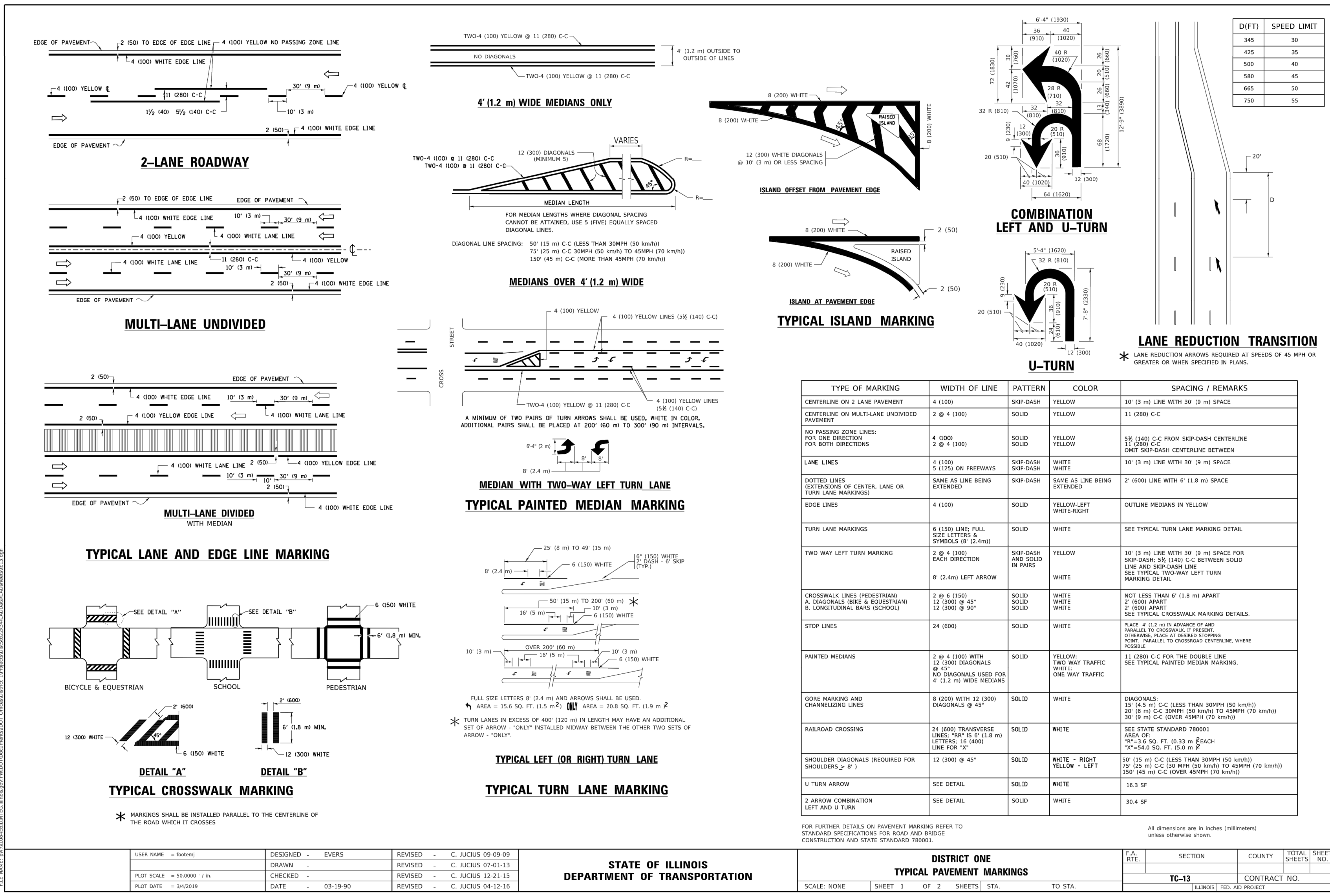
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RS DEVELOPERS, LLC
 SCHAUMBURG TOWNHOME DEVELOPMENT
 818-860 ROSELLE ROAD
 SCHAUMBURG, IL

PROJ NO: 240062
 ENG: AJB
 DATE: 08/30/2024

SHEET TITLE
 IDOT CONSTRUCTION DETAILS

SHEET NUMBER
C6.7
 28 OF 31



SPECIAL PROVISION FOR LIGHTWEIGHT RAISED REFLECTIVE PAVEMENT MARKER (PCC)

Description. This work shall consist of installing lightweight reflective pavement markers on Portland cement concrete (PCC) pavement surfaces. A pavement marker consists of a reflector housing ("housing") and a prismatic reflector ("reflector"). Lightweight raised reflective pavement markers shall not be placed in HMA pavement surfaces or placed on bridges or bridge approach slabs.

Materials. Materials shall conform to Article 1096.01 of the *Standard Specifications for Road and Bridge Construction* with the following exceptions:

Replace paragraph 1096.01(a) with the following:
 (a) The markers shall be low-profile units consisting of lightweight, high-impact polymer plastic housing to which is attached a replaceable prismatic retroreflector for reflecting light from one or two directions as specified. The housing shall have steel rub rails molded into the top side, and be shaped to deflect a snowplow blade upward, and thus preventing damage to the reflectors. The bottom of the housing shall incorporate two parallel keels and a bow-shaped web designed to fit into a grooved road surface. The housing shall have leveling tabs to ensure proper embedment and shall be fastened to the road surface using an epoxy adhesive. The epoxy used shall meet the requirements of AASHTO M 237 specification for epoxy adhesive. The housing shall be designed for bidirectional plowing. The housing shall be marked with the manufacturer's name and the model number of the marker shall be visible after.

Replace paragraph 1096.01(b) with the following:
 (b) The housing shall be approximately 9.37 inches long, 5.75 inches wide, and 1.87 inches high. The surface of the keel and web shall be free of scale, dirt, rust, oil, grease, or any other contaminant which may reduce bond.

Construction Requirements. The installation of lightweight raised reflective pavement markers shall meet the requirements of Article 781.03 of the *Standard Specifications for Road and Bridge Construction* with the following exceptions:

Add the following to 781.03(a)
 Sufficient weight shall be placed on top of the holder to ensure all leveling tabs contact the pavement for the duration of the epoxy curing time.

To ensure proper installation of the new raised reflective pavement markers, the markers shall be located fore or aft of any existing casting or holder location and on the existing alignment, or as directed by the Engineer.

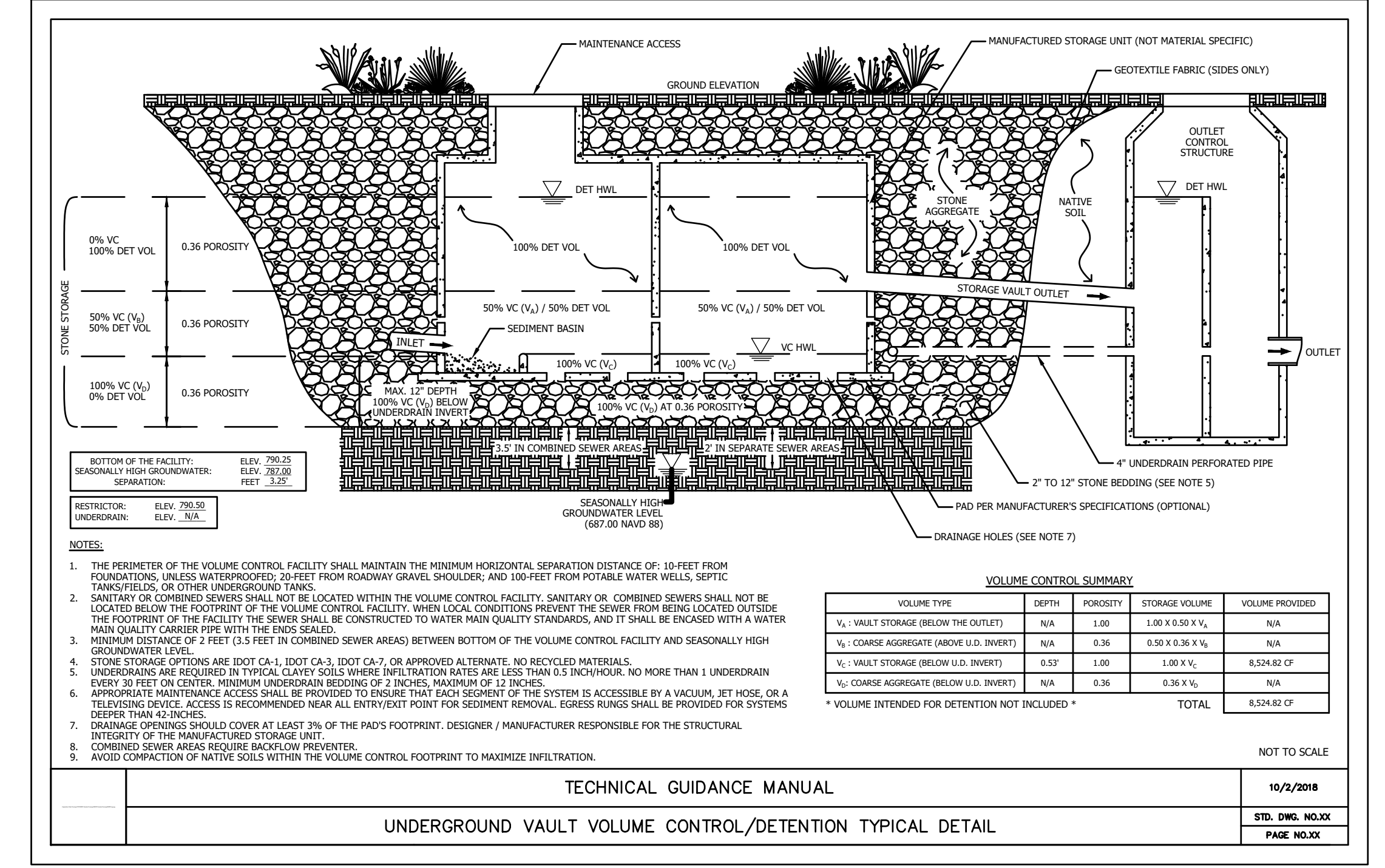
Replace paragraph 781.03(c) with the following:

The Contractor shall make certain the housing surface is dry and free of dirt and debris prior to placing the reflector in the housing. The reflector shall be laminated to an elastomeric pad and adhesively attached to the housing. The protective paper or plastic film covering the adhesive pad shall be removed immediately prior to placing the reflector on the housing. Once the film covering is removed, extreme care shall be taken to avoid contamination of the exposed pad surface. An adhesive meeting the marker manufacturer's specifications shall be used. The adhesive shall be placed either on the reflector or on the housing in sufficient quantity so as to ensure complete coverage of the contact area with no voids present and with a slight excess after the reflector is pressed in place. Adhesive material shall not be permitted on the reflective surface of the prismatic reflector.

- i. Replacement Lightweight Raised Pavement Marker Housing (PCC): Surrounding pavement surface shall be free of cracking, spalling, or other defects. The recessed area shall be cleaned free of all loose material and old epoxy, and dry before the placement of the replacement housing in the existing cut. All excess material resulting from the removal of the old epoxy shall be completely removed from the surface of the roadway by means of vacuum sweeper truck. The epoxy used shall meet the requirements of AASHTO M 237 specification for epoxy adhesive.
- ii. Replacement Lightweight Raised Pavement Marker Reflector (PCC): The Contractor shall make certain the housing surface is dry and free of dirt, debris, and old adhesives prior to placing the reflector in the housing. The reflector shall be laminated to an elastomeric pad and adhesively attached to the housing. The protective paper or plastic film covering the adhesive pad shall be removed immediately prior to placing the reflector on the housing. Once the film covering is removed, extreme care shall be taken to avoid contamination of the exposed pad surface. An adhesive meeting the marker manufacturer's specifications shall be used. The adhesive shall be placed either on the reflector or on the housing in sufficient quantity so as to ensure complete coverage of the contact area with no voids present and with a slight excess after the reflector is pressed in place. Adhesive material shall not be permitted on the reflective surface of the prismatic reflector.

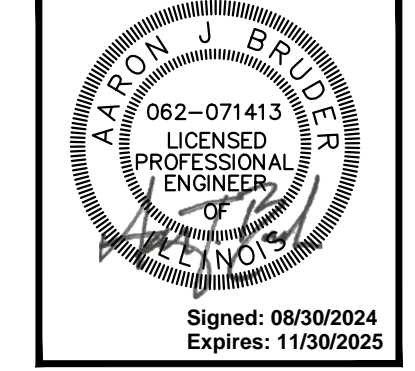
Inspection. Inspection and acceptance for lightweight raised reflective pavement markers shall conform to Article 781.04 of the *Standard Specifications for Road and Bridge Construction*.

Basis of Payment. This work will be paid for at the contract unit price per EACH for LIGHTWEIGHT RAISED REFLECTIVE PAVEMENT MARKER (PCC), REPLACEMENT LIGHTWEIGHT REFLECTIVE PAVEMENT MARKER HOUSING (PCC), REPLACEMENT LIGHTWEIGHT RAISED PAVEMENT MARKER REFLECTOR (PCC).



MWRD UNDERGROUND VAULT VOLUME CONTROL DETAIL

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REVISIONS

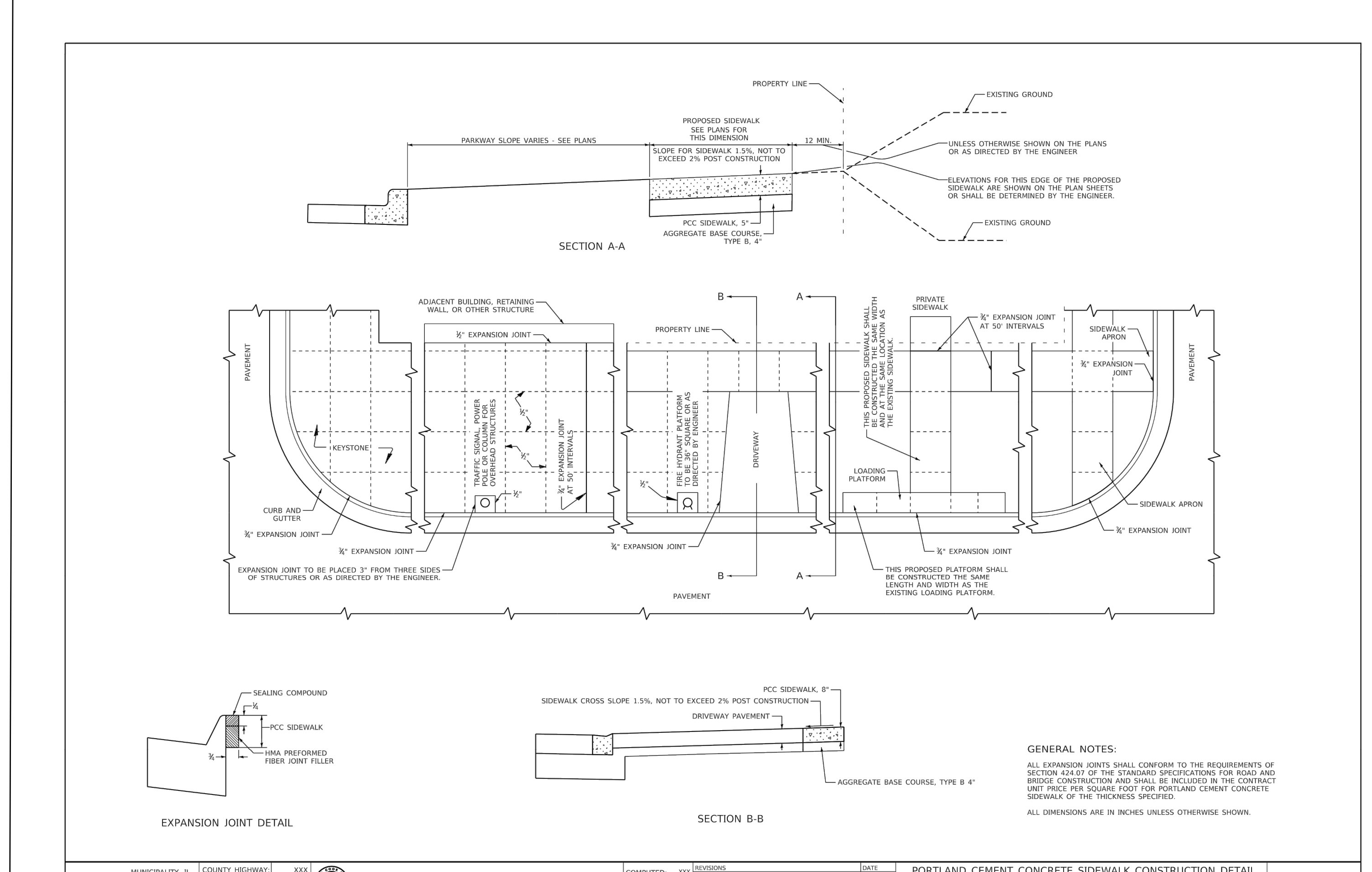
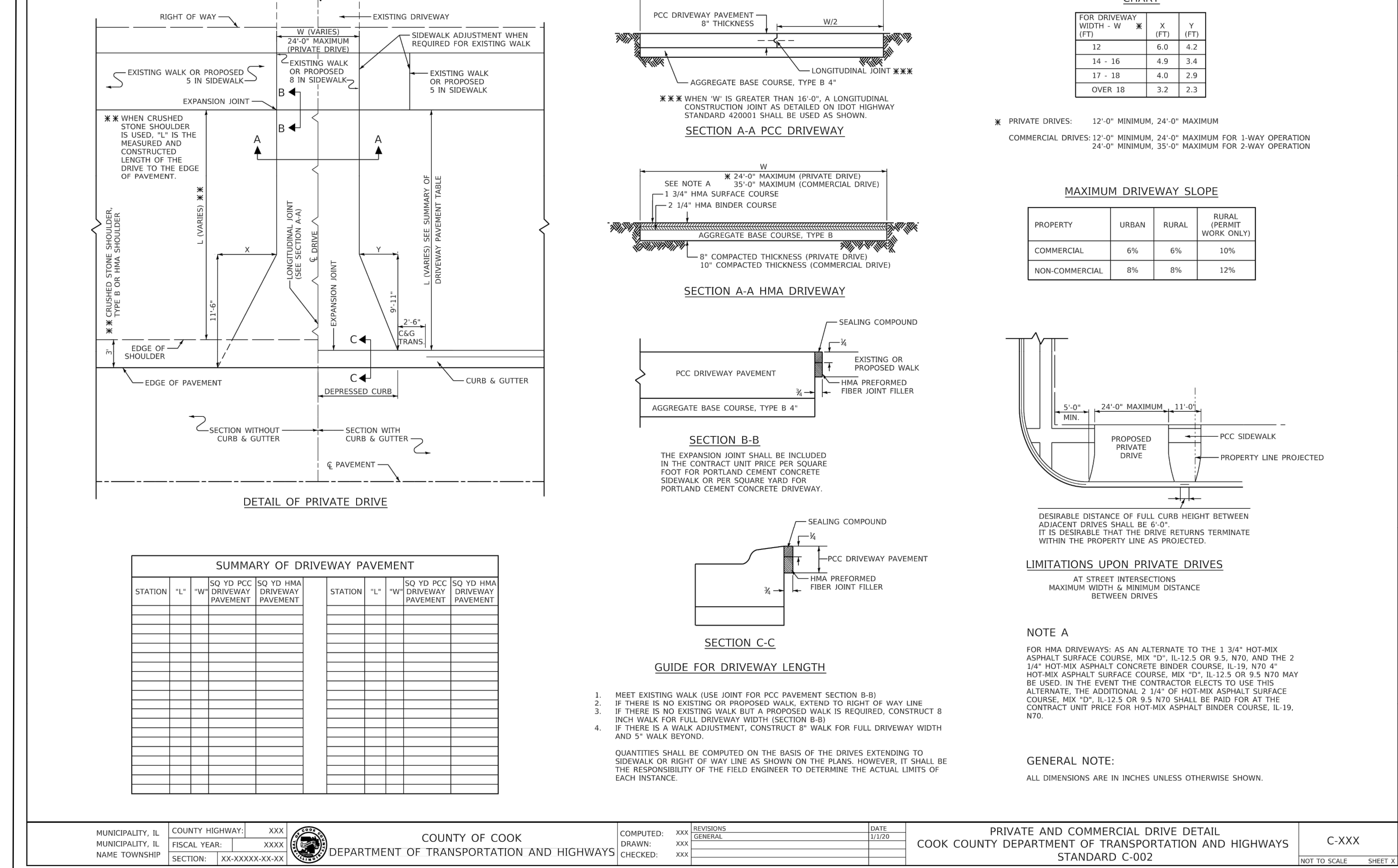
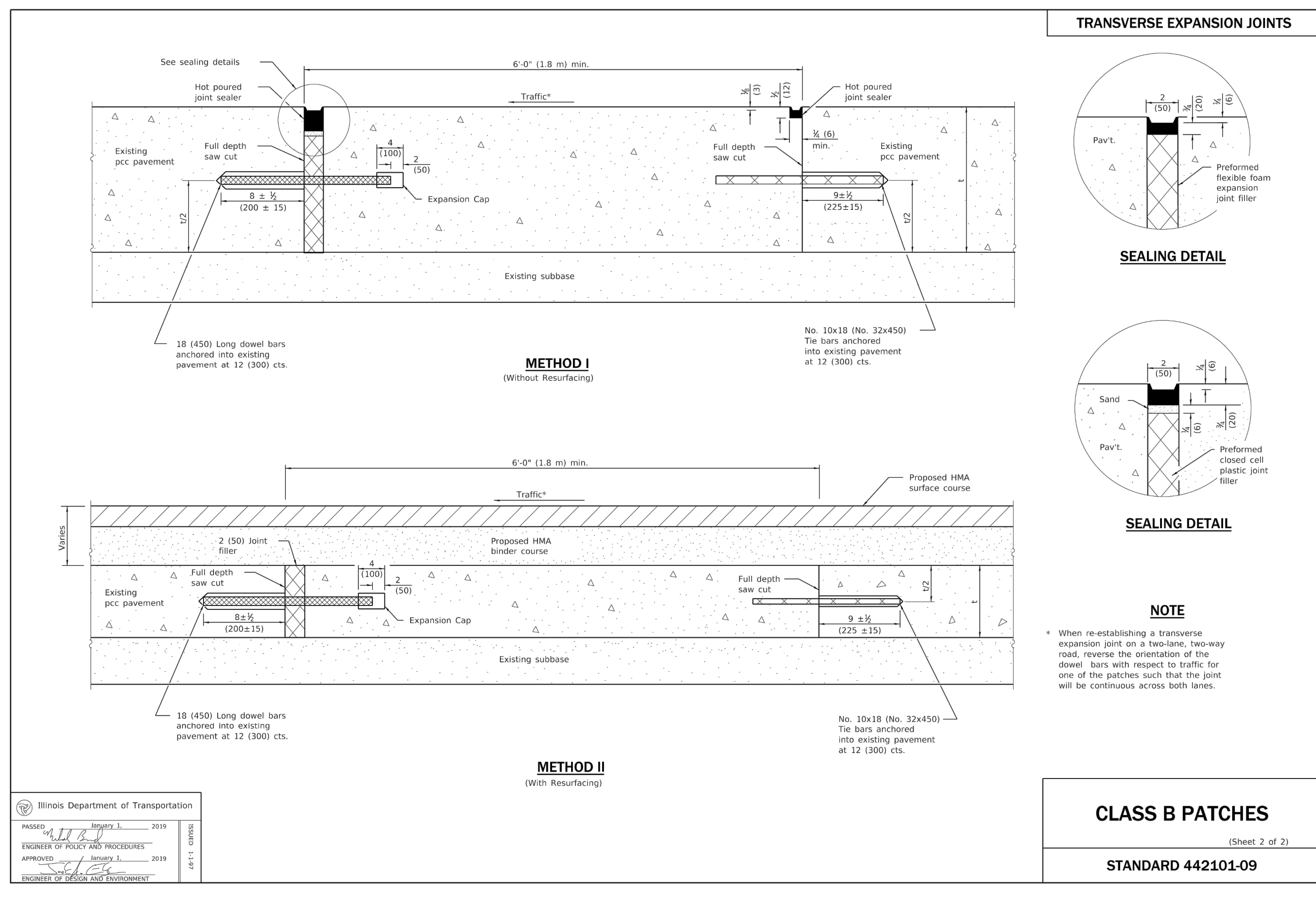
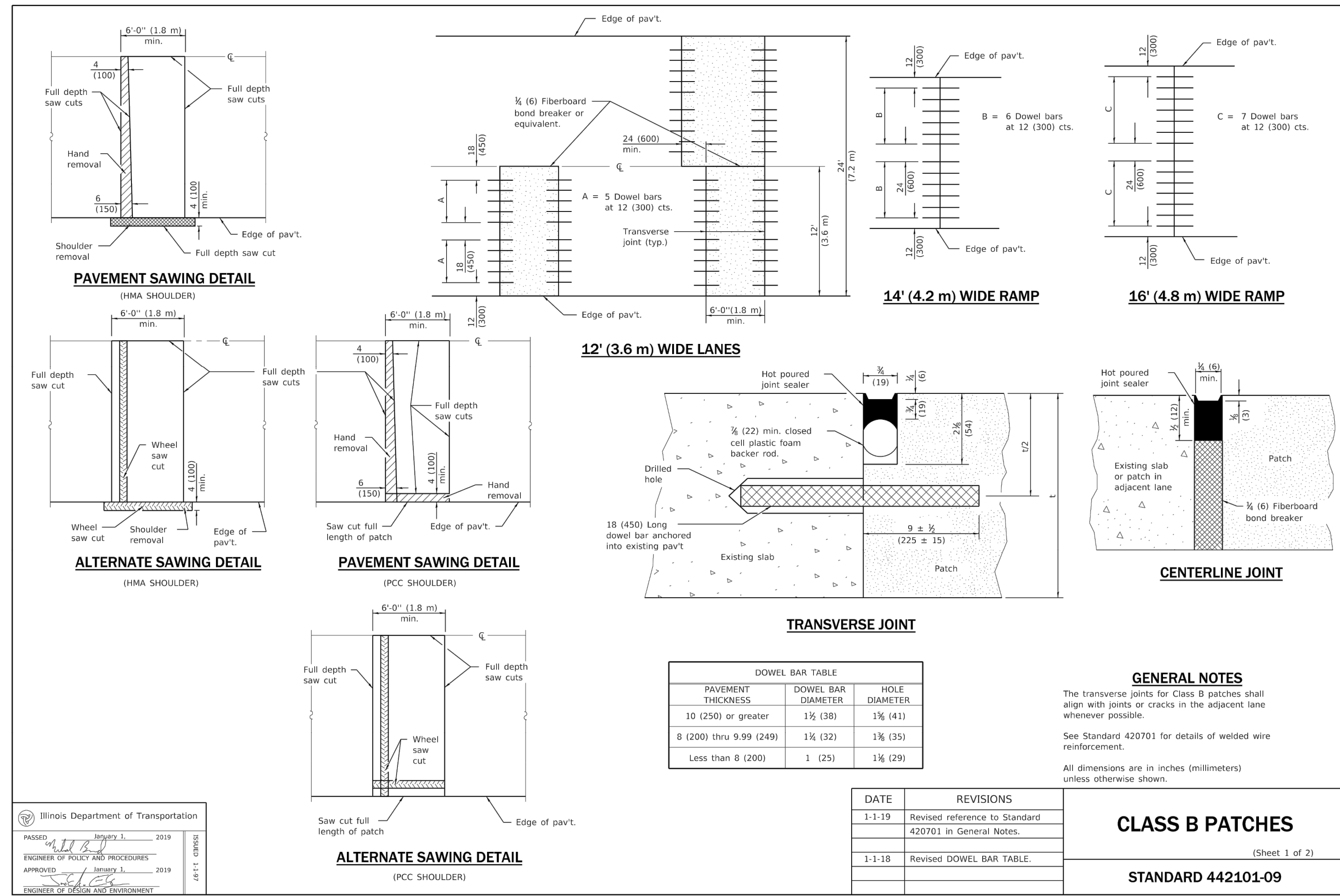
NO.	DATE	DESCRIPTION

RS DEVELOPERS, LLC
SCHAUMBURG TOWNHOME DEVELOPMENT
 818-860 ROSELLE ROAD
 Schaumburg, IL

PROJ NO: 240062
 ENG: AJB
 DATE: 08/30/2024

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
C6.8
 29 OF 31



2200 CABOT DRIVE
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CAGE CIVIL ENGINEERING

AARON J. BRIDER
LICENSED PROFESSIONAL ENGINEER
062-071413
Signed: 08/30/2024
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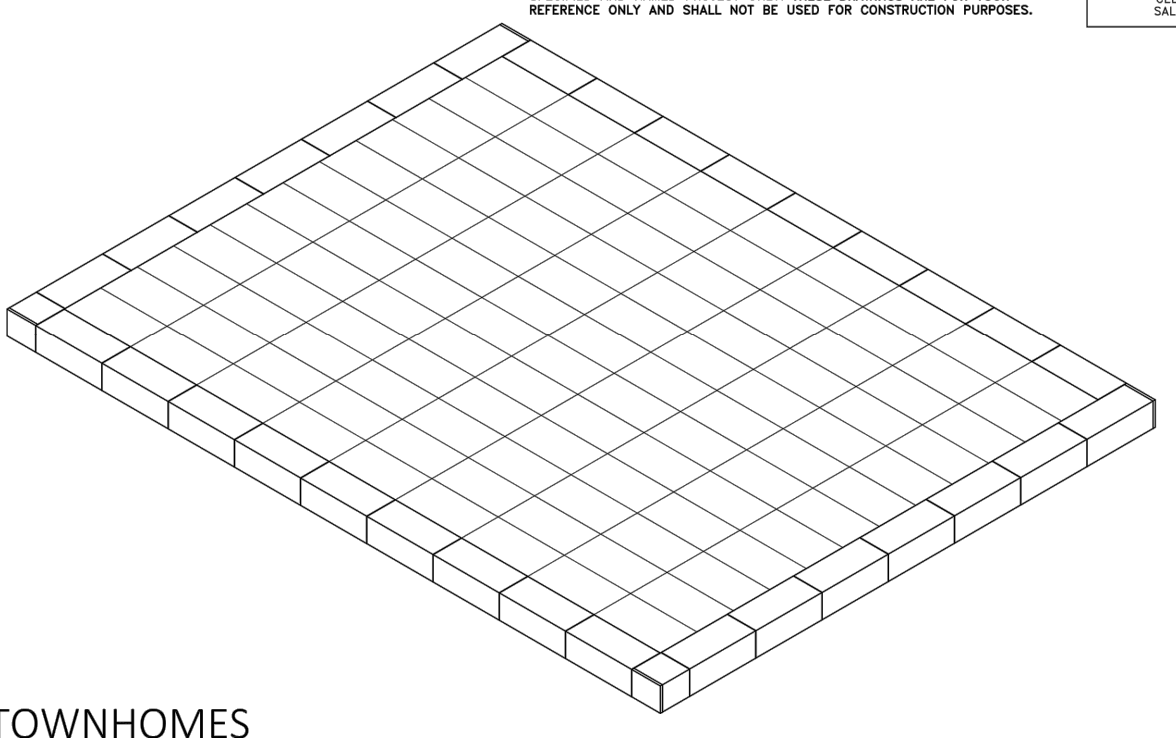
REVISIONS

RS DEVELOPERS, LLC
SCHAUMBURG TOWNHOME DEVELOPMENT
818-860 ROSELLE ROAD
SCHAUMBURG, IL

PROJ NO: 240062
ENG: AJB
DATE: 08/30/2024
SHEET TITLE
CONSTRUCTION DETAILS
SHEET NUMBER
C6.9
30 OF 31



THE STORMTRAP DRAWINGS SHALL NOT BE ALTERED OR MANIPULATED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF STORMTRAP, INC. THESE DRAWINGS ARE STRICTLY INTENDED TO BE USED FOR CONSTRUCTION PURPOSES ONLY AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.



EVERLY TOWNHOMES
SCHAUMBURG, IL

SHEET INDEX table with columns for PAGE, DESCRIPTION, and SHEET NUMBER.

STORMTRAP CONTACT INFORMATION
STORMTRAP SUPPLIER: STORMTRAP
PROJECT NAME: 2200 CABOT

StormTrap logo and contact information: 2200 CABOT DR #325, LISLE, IL 60532, 630-598-0007

PROJECT INFORMATION:
EVERLY TOWNHOMES

SCHAUMBURG, IL
CURRENT ISSUE DATE:
8/04/2022

ISSUED FOR:
PRELIMINARY

REV. DATE: ISSUED FOR (BY):

1/24/2022 PRELIMINARY DS

1/28/2022 PRELIMINARY JS

SCALE:
N/A

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
0.0

STRUCTURAL DESIGN LOADING CRITERIA
GROUND WATER TABLE: BELOW INVERT OF SYSTEM
LOADS: UNIFORM SURFACE LOADS

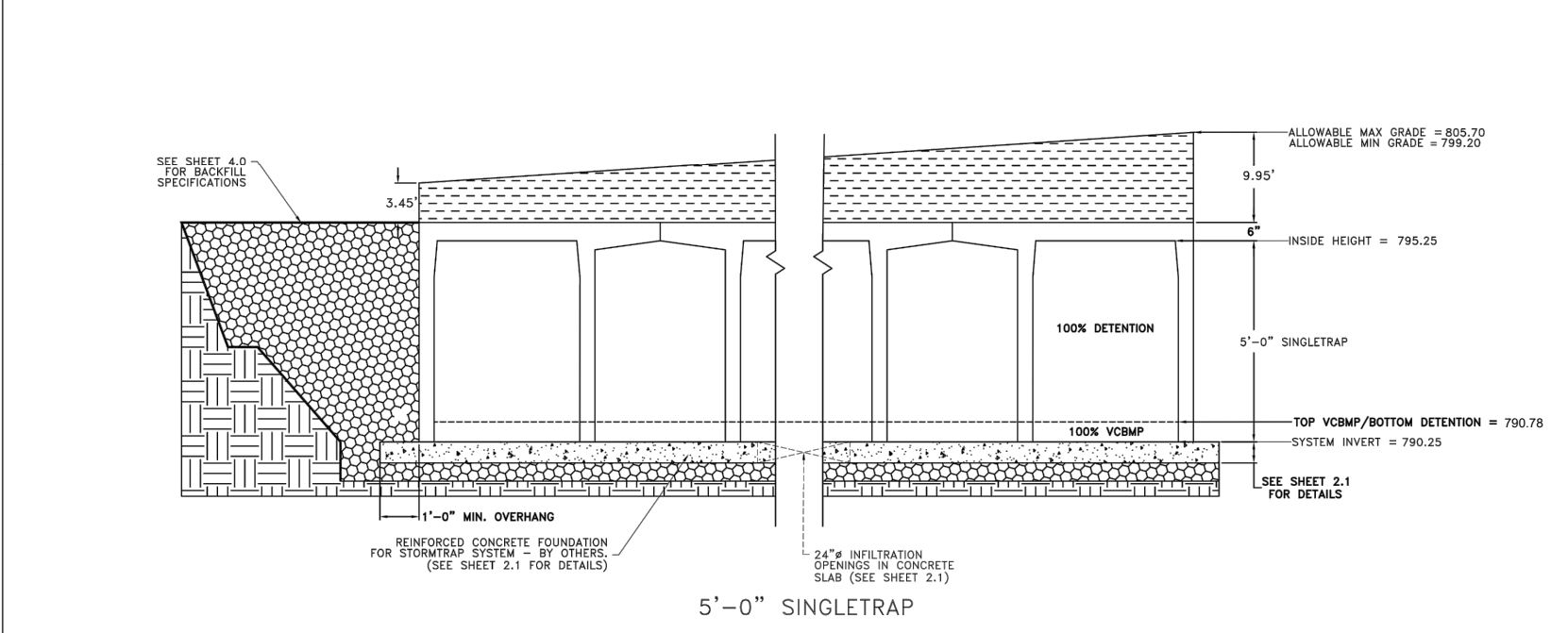
STORMTRAP SYSTEM INFORMATION
UNIT HEADROOM: 5'-0" SINGLETRAP

SITE SPECIFIC DESIGN CRITERIA
1. STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD.

VCBPM VOLUME CALCULATION
-TOTAL VCBPM STORAGE REQUIRED = 8,000.00 CUBIC FEET
-TOTAL VCBPM STORAGE PROVIDED = 8,624.00 CUBIC FEET

DETENTION VOLUME CALCULATION
-TOTAL WATER STORAGE REQUIRED = 71,400.00 CUBIC FEET
-TOTAL WATER STORAGE PROVIDED = 71,807.00 CUBIC FEET

SEASONAL HIGH WATER TABLE
-SHORT = 787.00' (ELEVATION)
-LONG = 787.00' (ELEVATION)
-HEIGHT OF WATER TABLE ABOVE UNIT = 2.50' (DISTANCE)



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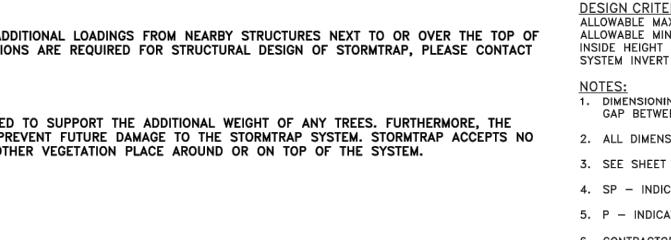
SCALE:
N/A

SHEET TITLE:
SINGLETRAP DESIGN CRITERIA

SHEET NUMBER:
1.0

BILL OF MATERIALS table listing quantities for various components like 12" x 12" SINGLETRAP, 12" x 12" SINGLETRAP, etc.

LOADING DISCUSSION
STORMTRAP IS NOT DESIGNED TO ACCEPT ANY ADDITIONAL LOADINGS FROM HEAVY STRUCTURES NEXT TO OR OVER THE TOP OF STORMTRAP UNITS.



DESIGN CRITERIA
ALLOWED MAX GRADE = 785.70
MINIMUM UNIT GRADE = 785.20
SYSTEM INVERT = 785.20

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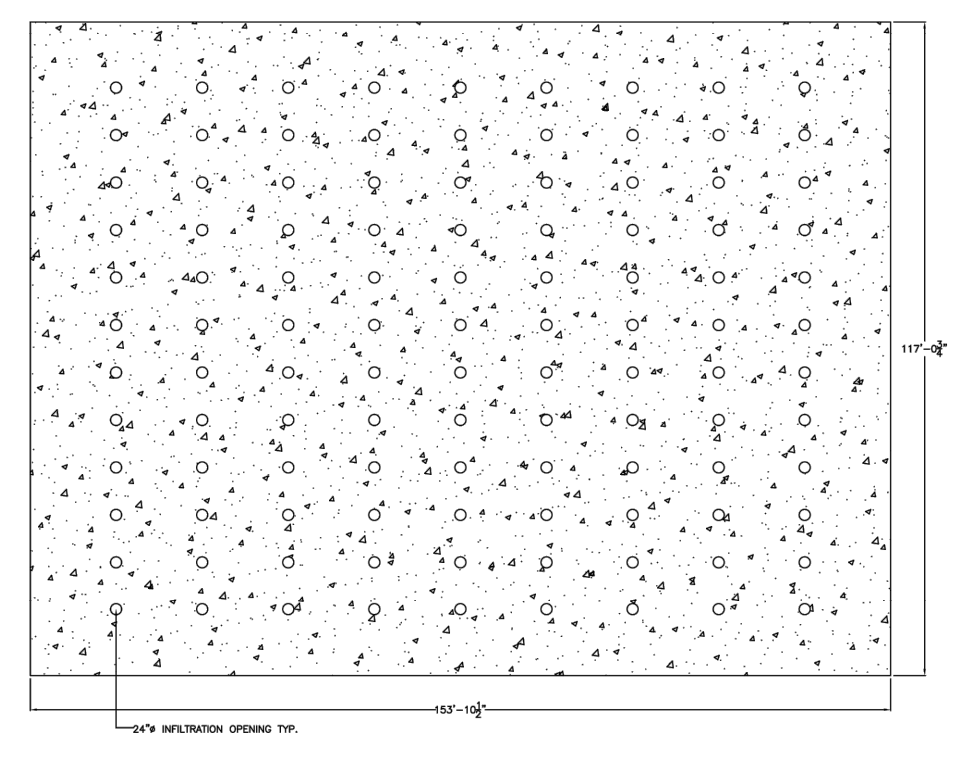
1/24/2022 PRELIMINARY DS

1/28/2022 PRELIMINARY JS

SCALE:
N/A

SHEET TITLE:
SINGLETRAP SYSTEM LAYOUT

SHEET NUMBER:
2.0



MAXIMUM SYSTEM SLAB THICKNESS table with columns for SLAB THICKNESS, CONCRETE STRENGTH, and DIMENSIONS.

CONCRETE FOUNDATION NOTES
1. CONCRETE FOUNDATION TO BE SUPPLIED AND INSTALLED BY OTHER.
2. CONCRETE STRENGTH IS TO BE DETERMINED BY TEST.

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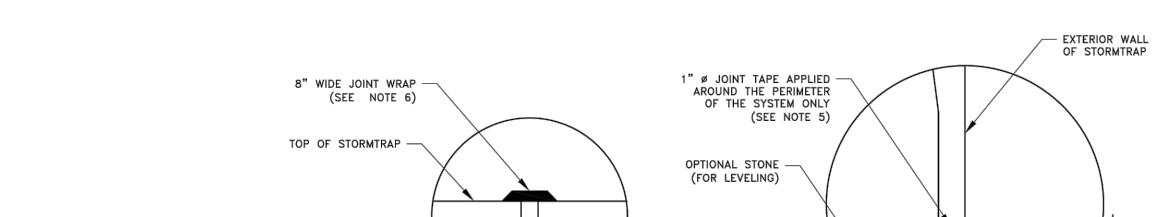
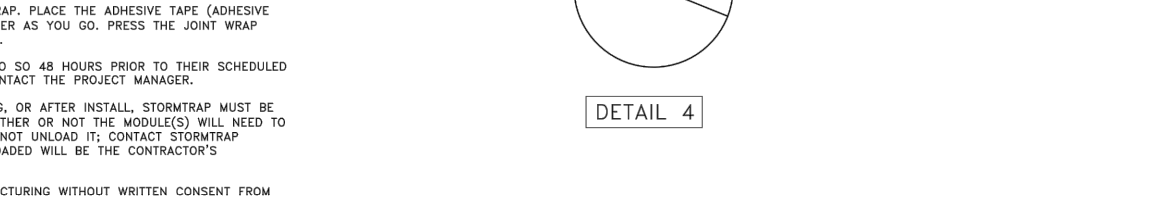
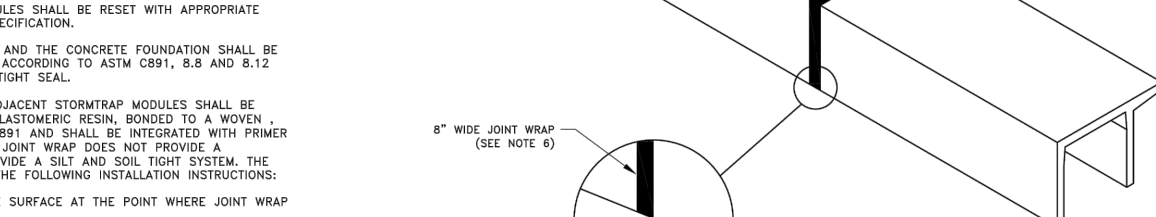
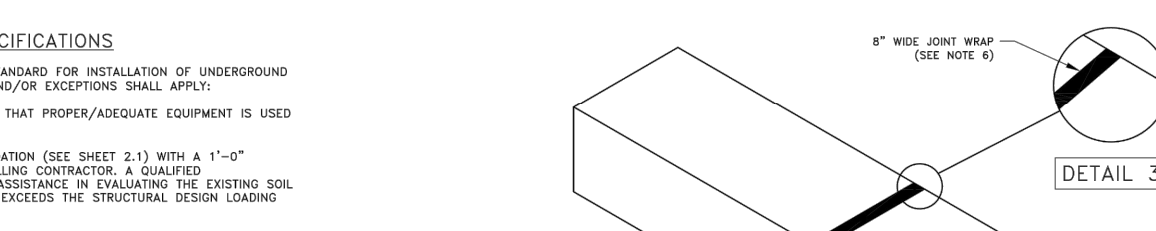
1/28/2022 PRELIMINARY JS

SCALE:
N/A

SHEET TITLE:
SINGLETRAP FOUNDATION LAYOUT

SHEET NUMBER:
2.1

STORMTRAP INSTALLATION SPECIFICATIONS
1. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C913, STANDARD FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES.



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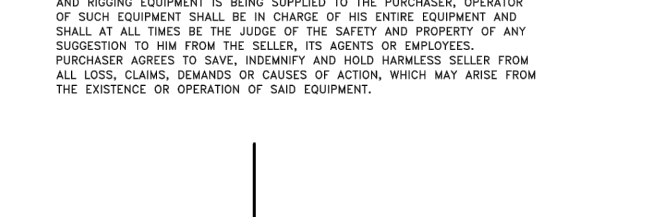
1/28/2022 PRELIMINARY JS

SCALE:
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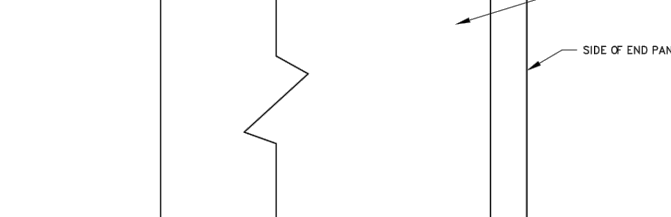
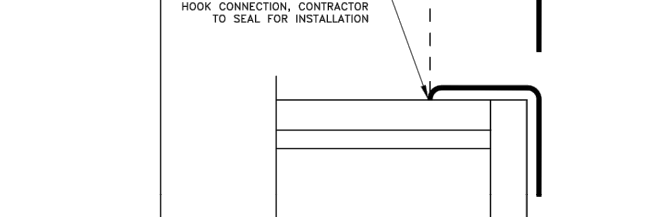
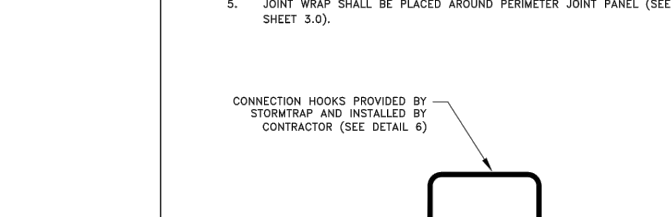
SHEET TITLE:
SINGLETRAP INSTALLATION SPECIFICATIONS

SHEET NUMBER:
3.0

STORMTRAP MODULE LIFTING INSTALLATION NOTES
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL (A) DAMAGING/CRACKING ARE SECURED PROPERLY TO THE LIFTING ANCHORS AND IN EQUAL TENSION AND LIFTING THE STORMTRAP MODULE.



END PANEL ERECTION/INSTALLATION NOTES
1. END PANELS WILL BE SUPPLIED TO CLOSE OPEN ENDS OF BOWLS.
2. PANELS SHALL BE INSTALLED IN A TILT UP POSITION DIRECTLY ADJACENT TO OPEN END OF BOWLS TO MEET ON THE END PANEL LOCATIONS.



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SCALE:
N/A

SHEET TITLE:
SINGLETRAP INSTALLATION SPECIFICATIONS

SHEET NUMBER:
3.1

ZONE CHART table with columns for ZONE, ZONE DESCRIPTIONS, and REMARKS.

FILL DEPTH table with columns for TRACK WIDTH, MAX WHEEL WIDTH, and FILL DEPTH.

STORMTRAP ZONE INSTALLATION SPECIFICATIONS/PROCEDURES
1. THE FILL PLACED AROUND THE STORMTRAP MODULES MUST BE COMPACTED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION AS THE TOP OF THE FILL.

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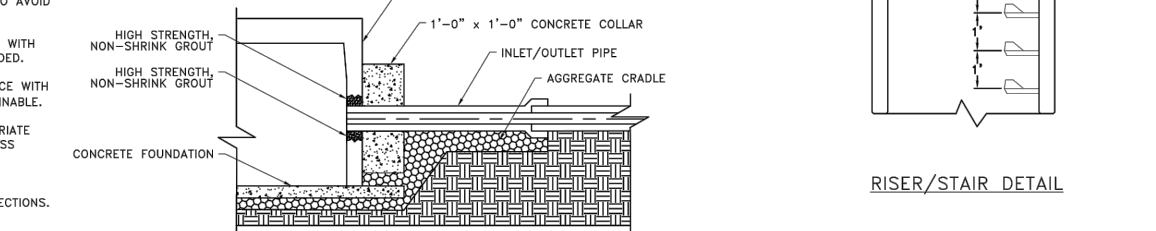
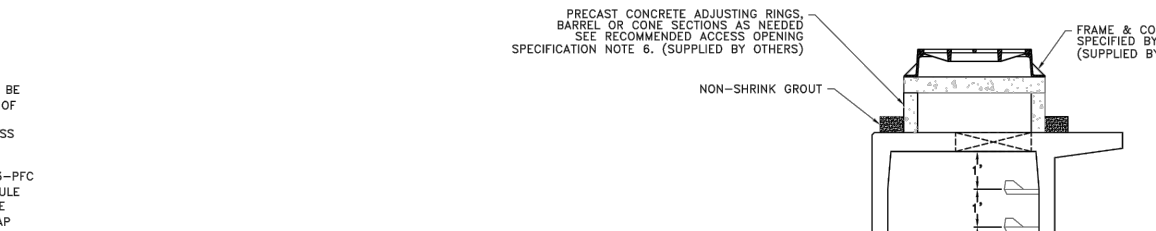
1/28/2022 PRELIMINARY JS

SCALE:
N/A

SHEET TITLE:
SINGLETRAP BACKFILL SPECIFICATIONS

SHEET NUMBER:
4.0

RECOMMENDED ACCESS OPENING SPECIFICATION
1. A TYPICAL ACCESS OPENING FOR THE STORMTRAP SYSTEM ARE 2'-0" IN DIAMETER ACCESS OPENINGS LARGER THAN 2'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP.



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N/A

SHEET TITLE:
RECOMMENDED PIPE / ACCESS OPENING SPECIFICATIONS

SHEET NUMBER:
5.0



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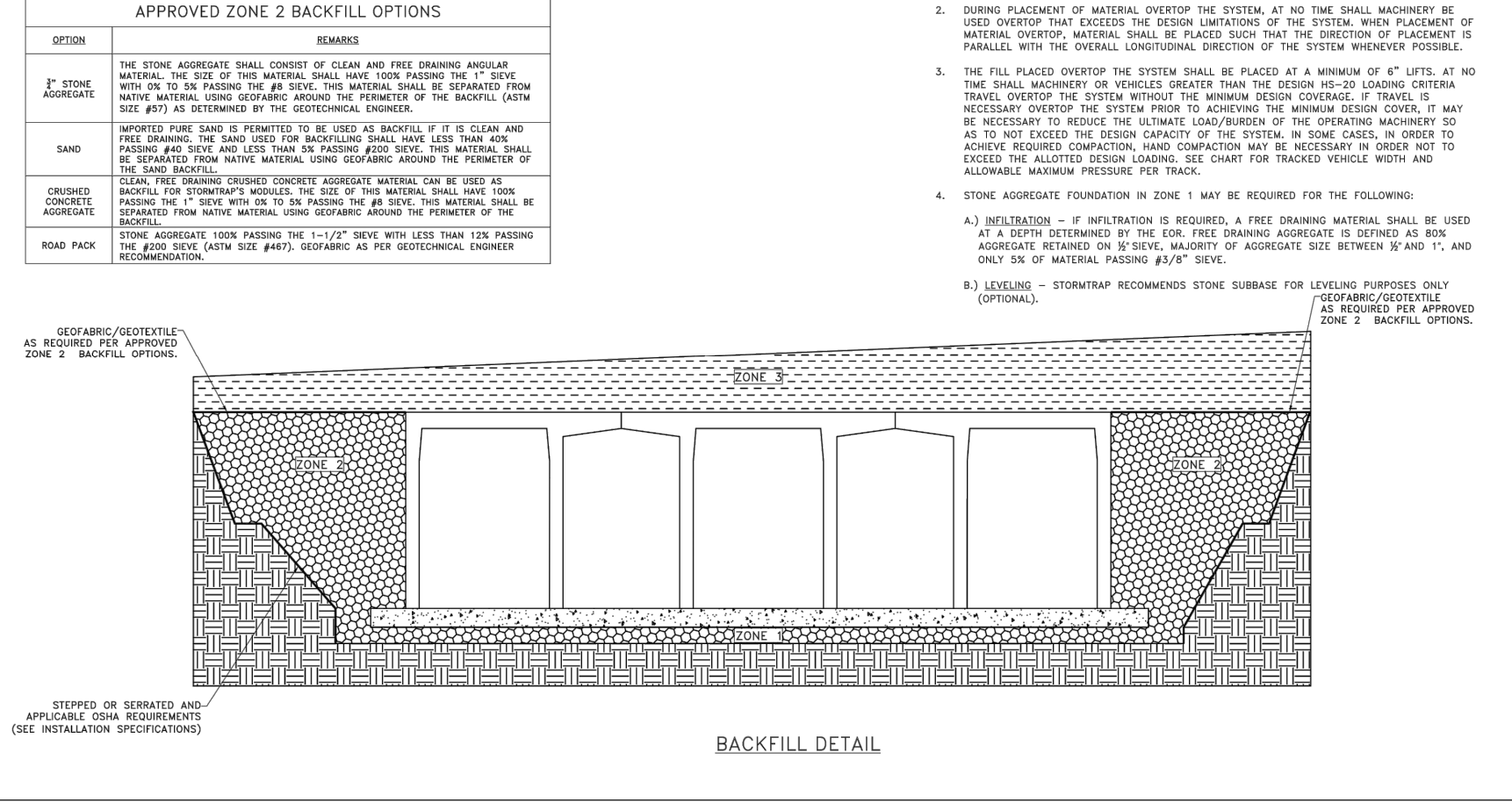
1/24/2022 PRELIMINARY DS

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SCALE:
N/A

SHEET TITLE:
SINGLETRAP MODULE TYPES

SHEET NUMBER:
6.0



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AARON J BRIDER
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LICENSED PROFESSIONAL ENGINEER
Signed: 08/30/2024
Expires: 11/30/2025

REVISIONS table with columns for NO., DATE, and DESCRIPTION.

RS DEVELOPERS, LLC
SCHAUMBURG TOWNHOME DEVELOPMENT
818-860 ROSELLE ROAD
SCHAUMBURG, IL

PROJ NO: 240062
ENG: AJB
DATE: 08/30/2024

SHEET TITLE
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C6.10
31 OF 31