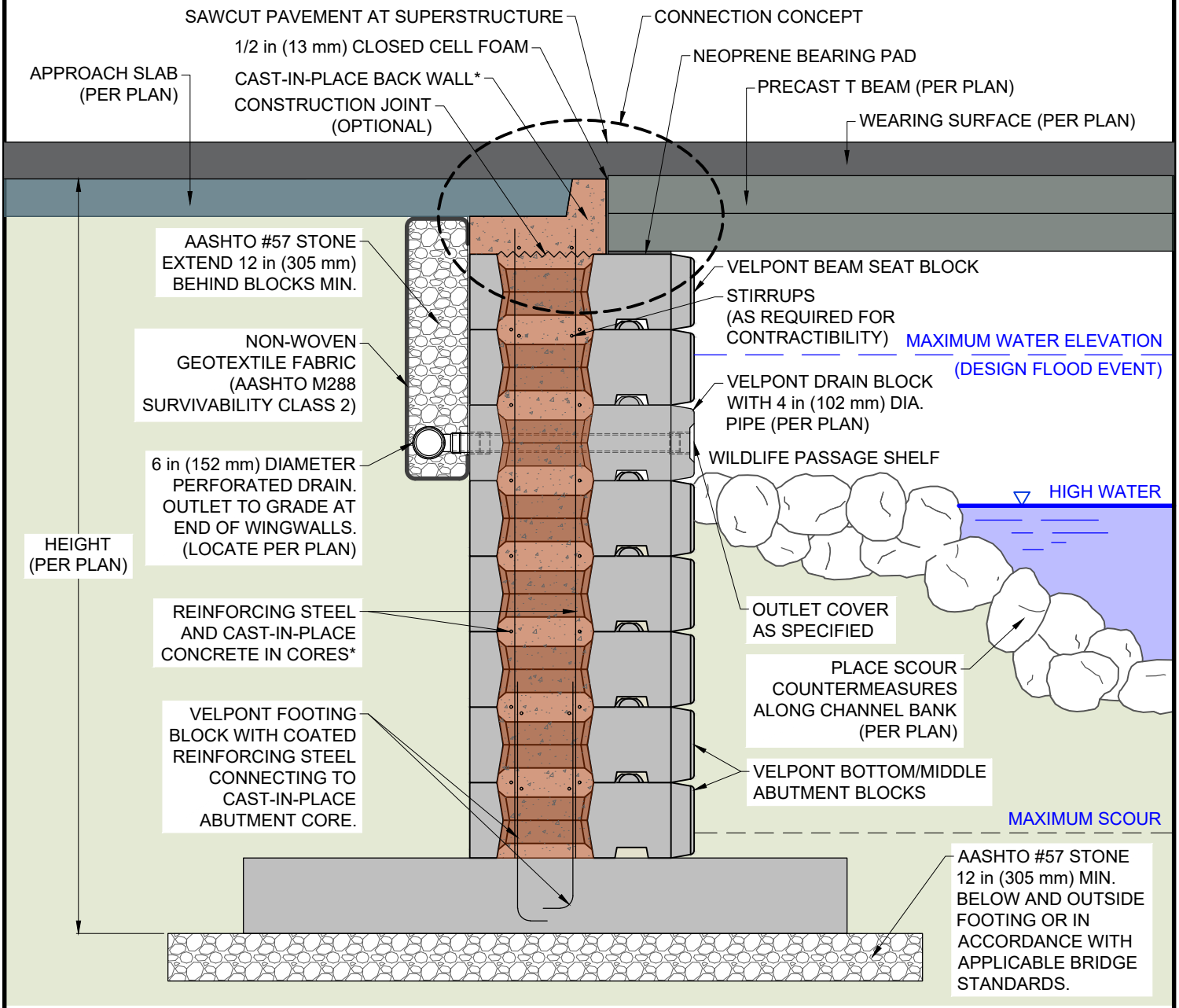
Velpont®

Construction Details

TYPICAL ABUTMENT CROSS-SECTION ADJACENT TO WATER

NO SCALE



NOTES:

1) ALL VELPONT BLOCKS HAVE REINFORCING STEEL INSTALLED DURING CASTING PROCESS. NOT SHOWN FOR DRAWING CLARITY. AVAILABLE UPON REQUEST.
2) ALTERNATE FOUNDATION CONFIGURATIONS ARE POSSIBLE BASED ON SITE-SPECIFIC CONDITIONS.
3) DENOTES 16 in (406 mm) x 20 in (508 mm) VOID IN VELPONT ABUTMENT BLOCKS AND CIP BACK WALL.
4) * DESIGN PER PROJECT SPECIFIC REQUIREMENTS.

THIS DRAWING IS FOR REFERENCE ONLY. DETERMINATION OF THE SUITABILITY AND/OR MANNER OF USE OF ANY DETAILS SHOWN IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER OF RECORD. FINAL PROJECT DESIGNS, INCLUDING ALL CONSTRUCTION DETAILS, SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER USING THE ACTUAL CONDITIONS OF THE PROPOSED SITE.

DRAWN BY:	LBR
DATE:	28-AUG-26
REVISION:	REV 3
PAGE:	1 of 1

TITLE: **TYPICAL ABUTMENT CROSS-SECTION ADJACENT TO WATER**

FILE: VELPONT TYPICAL CROSS-SECTION ADJACENT TO WATER 28AUG2026.dwg

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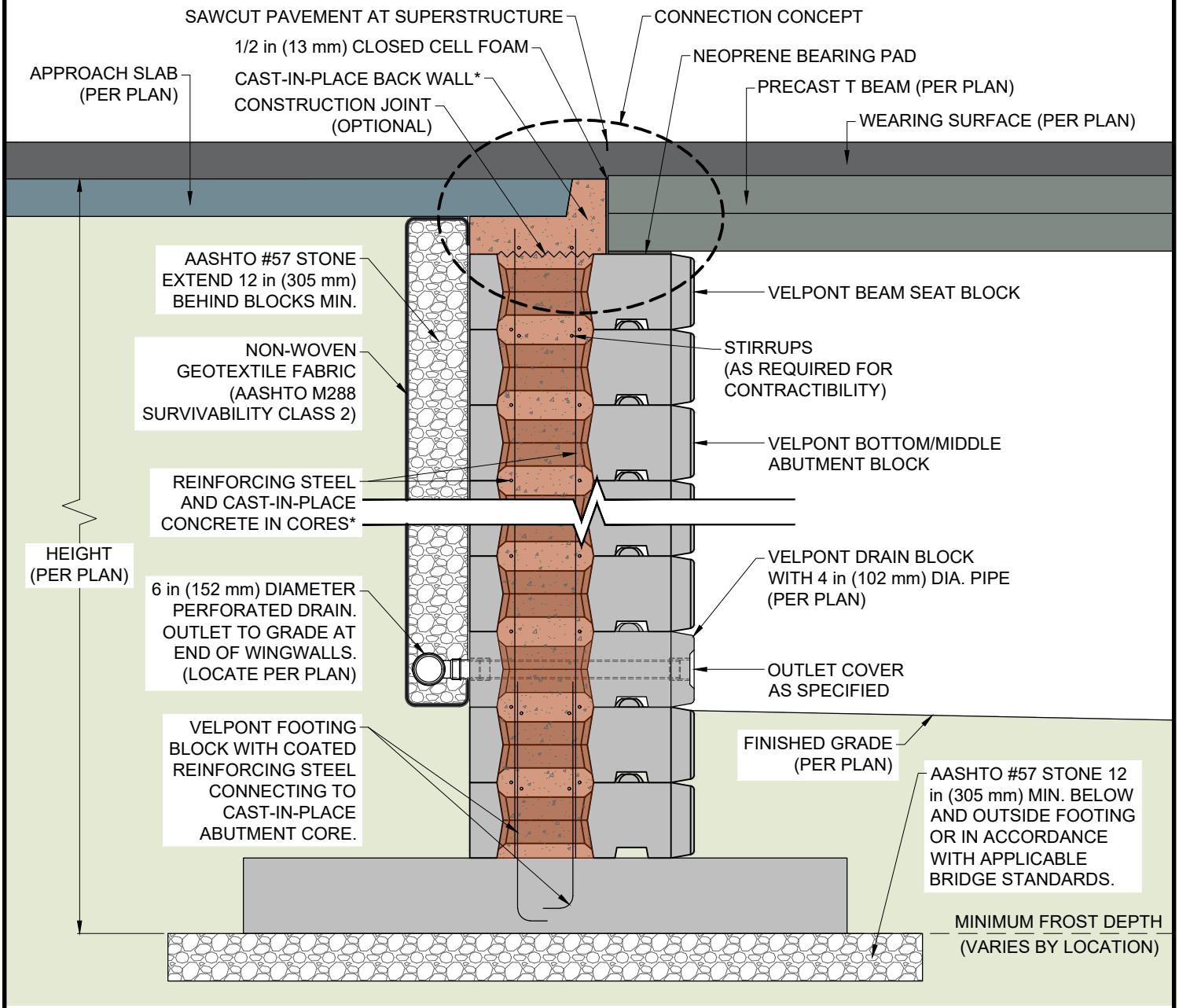
TYPICAL ABUTMENT CROSS-SECTION WITHOUT WATER

NO SCALE



NOTES:

1) ALL VELPONT BLOCKS HAVE REINFORCING STEEL INSTALLED DURING CASTING PROCESS. NOT SHOWN FOR DRAWING CLARITY. AVAILABLE UPON REQUEST.
2) ALTERNATE FOUNDATION CONFIGURATIONS ARE POSSIBLE BASED ON SITE-SPECIFIC CONDITIONS.
3) ▭ DENOTES 16 in (406 mm) x 20 in (508 mm) VOID IN VELPONT ABUTMENT BLOCKS AND CIP BACK WALL.
4) * DESIGN PER PROJECT SPECIFIC REQUIREMENTS.

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DRAWN BY:	LBR
DATE:	28-AUG-26
REVISION:	REV 2
PAGE:	1 of 1

TITLE: **TYPICAL ABUTMENT CROSS-SECTION WITHOUT WATER**

FILE: VELPONT TYPICAL CROSS-SECTION WITHOUT WATER 28AUG2026.dwg

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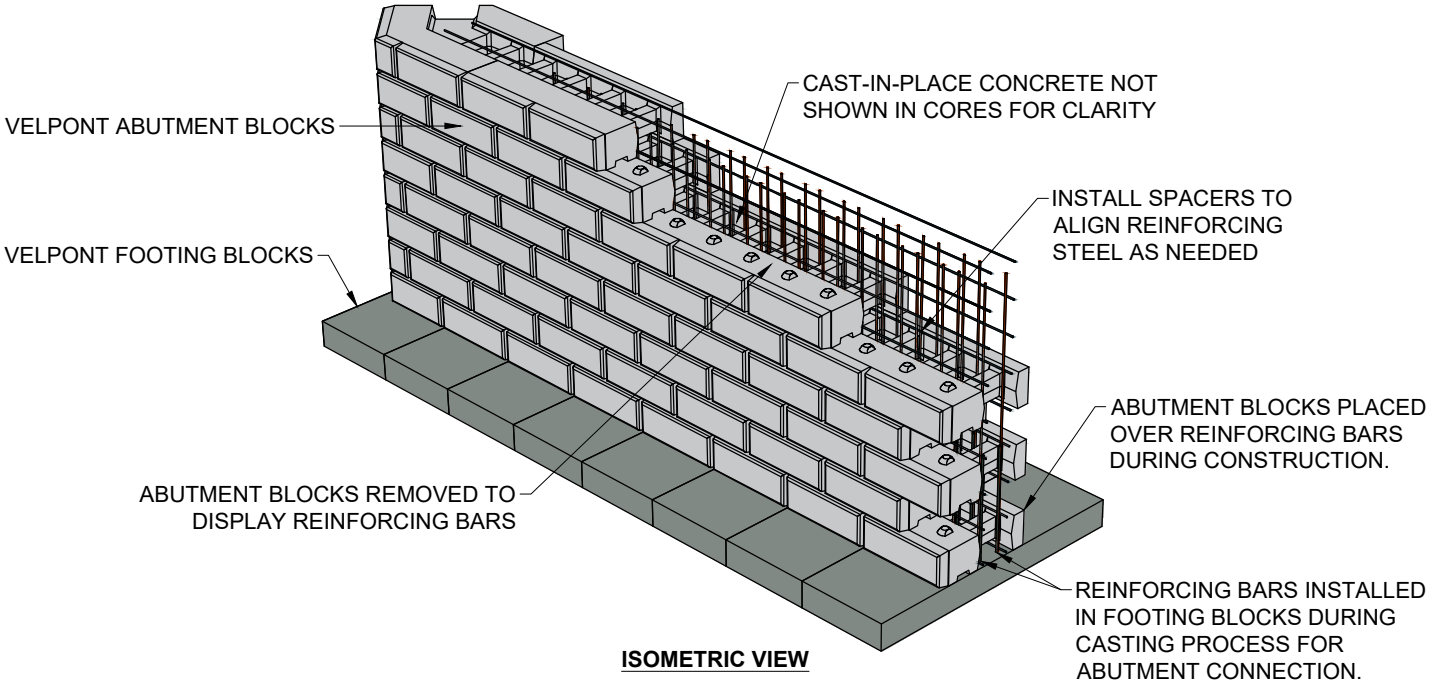
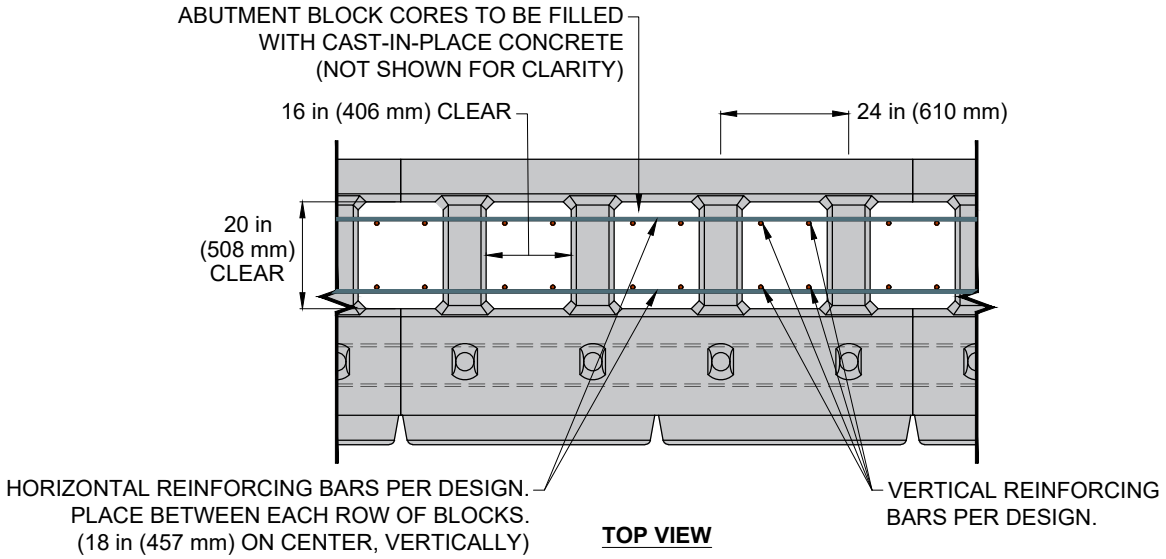
TYPICAL ABUTMENT REINFORCEMENT DETAIL

NO SCALE



ISOMETRIC VIEW



TOP VIEW

NOTE: REINFORCEMENT DESIGN AND LAYOUT WILL BE SITE AND PROJECT SPECIFIC. THE REINFORCEMENT IN THIS DETAIL ONLY SHOWS AN EXAMPLE FOR REFERENCE AND IS NOT INTENDED TO BE USED OR REPLACE PROJECT SPECIFIC DESIGN.

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DRAWN BY: LBR	TITLE: TYPICAL ABUTMENT REINFORCEMENT DETAIL
DATE: 22-SEP-26	
REVISION: REV 2	
PAGE: 1 of 1	FILE: VELPONT TYPICAL ABUTMENT REINFORCEMENT DETAIL 22SEP2026.dwg

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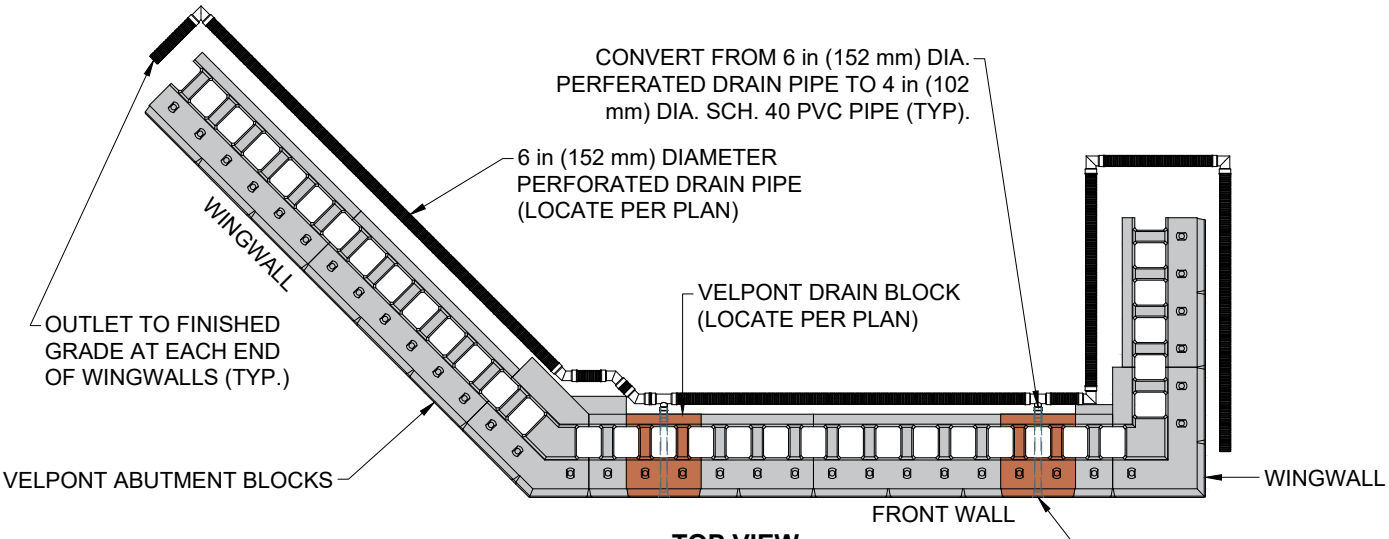
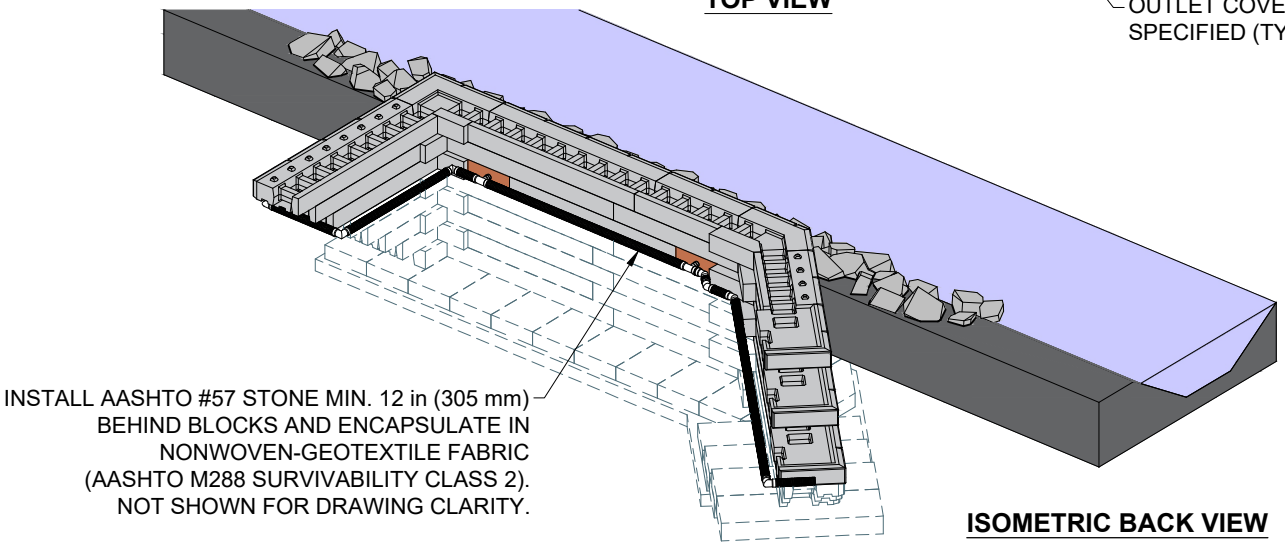
NOTE: REINFORCED CONCRETE IN ABUTMENT CORES, DRAINAGE STONE, AND GEOTEXTILE FABRIC OMITTED IN ALL VIEWS FOR CLARITY.

TYPICAL DRAINAGE DETAIL

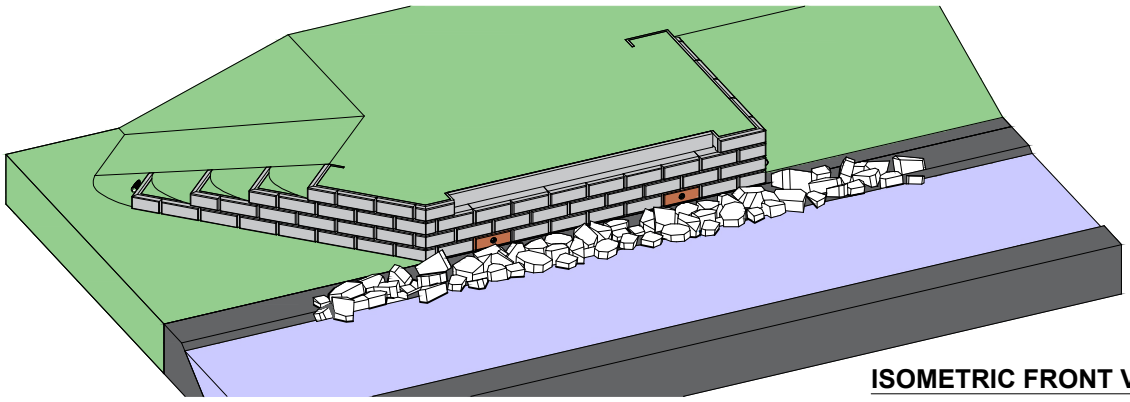
NO SCALE



TOP VIEW



ISOMETRIC BACK VIEW



ISOMETRIC FRONT VIEW

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DRAWN BY: LBR	TITLE: TYPICAL DRAINAGE DETAIL
DATE: 27-AUG-26	
REVISION: REV 1	
PAGE: 1 of 1	FILE: VELPONT TYPICAL DRAINAGE DETAIL 17JUL2026.dwg

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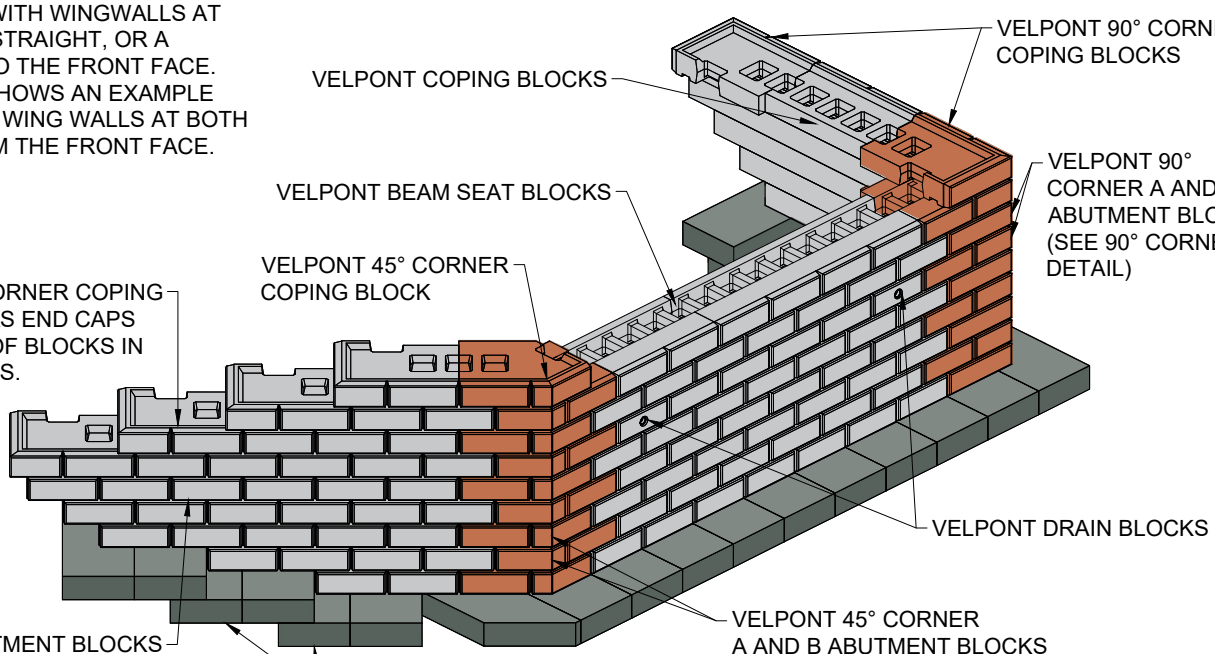
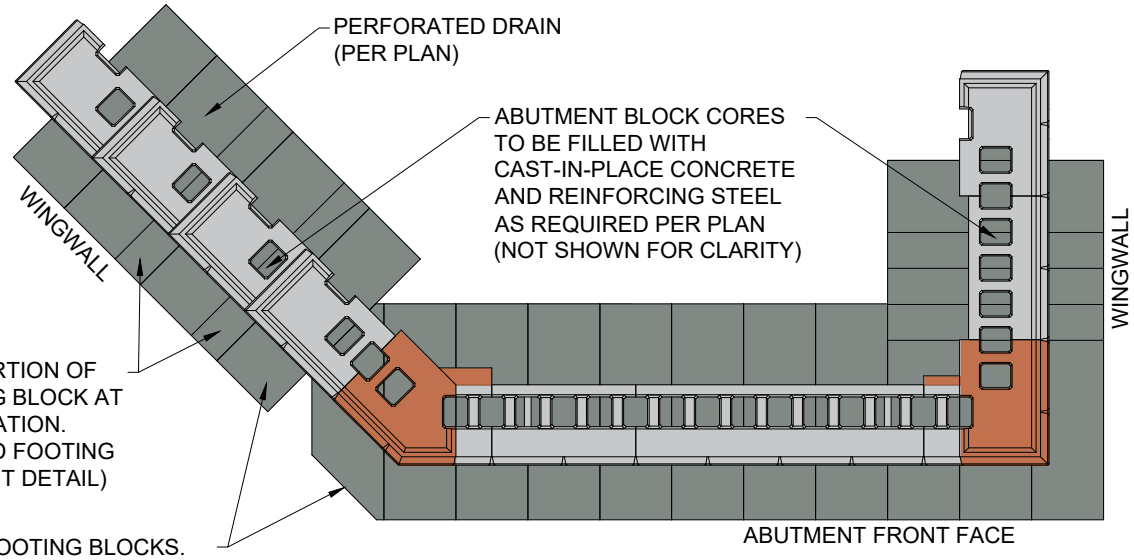
EXAMPLE WINGWALL DETAIL

NO SCALE

NOTE: VELPONT ABUTMENTS CAN BE CONSTRUCTED WITH WINGWALLS AT EITHER 45°, 90°, STRAIGHT, OR A COMBINATION, TO THE FRONT FACE. THIS DRAWING SHOWS AN EXAMPLE ABUTMENT WITH WING WALLS AT BOTH 45° AND 90° FROM THE FRONT FACE.



ISOMETRIC VIEW



TOP VIEW

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DRAWN BY: JACC/LBR	TITLE: EXAMPLE WINGWALL DETAIL
DATE: 02-OCT-26	
REVISION: REV 1	
PAGE: 1 of 1	FILE: VELPONT WINGWALL DETAIL 02OCT2026.dwg

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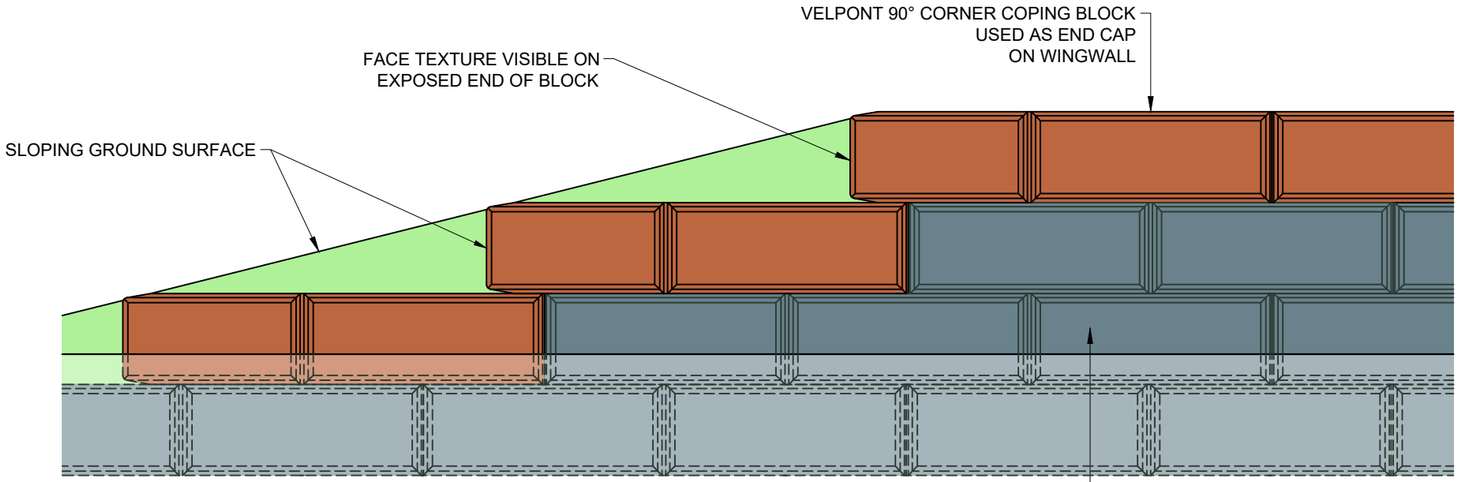
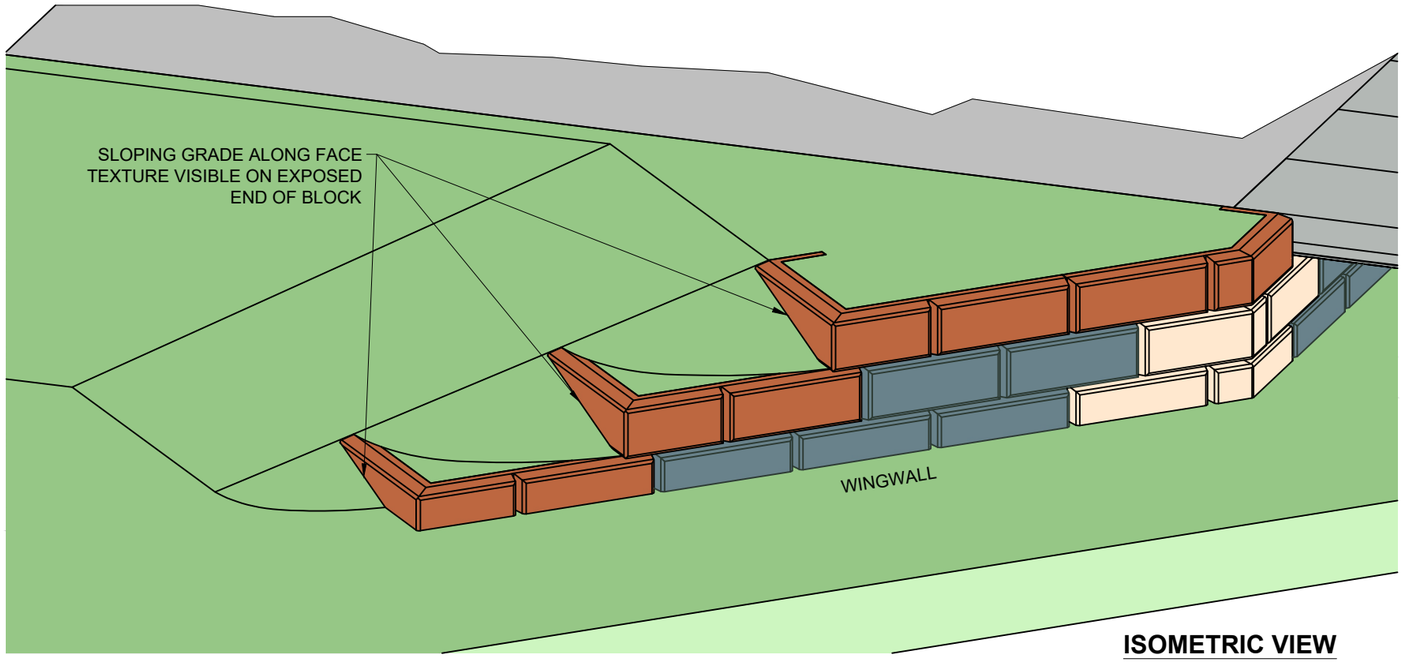
TYPICAL TOP OF WINGWALL STEP DOWN

NO SCALE



PROFILE VIEW



ISOMETRIC VIEW

GENERAL NOTES

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TITLE:
TYPICAL TOP OF WINGWALL STEP DOWN

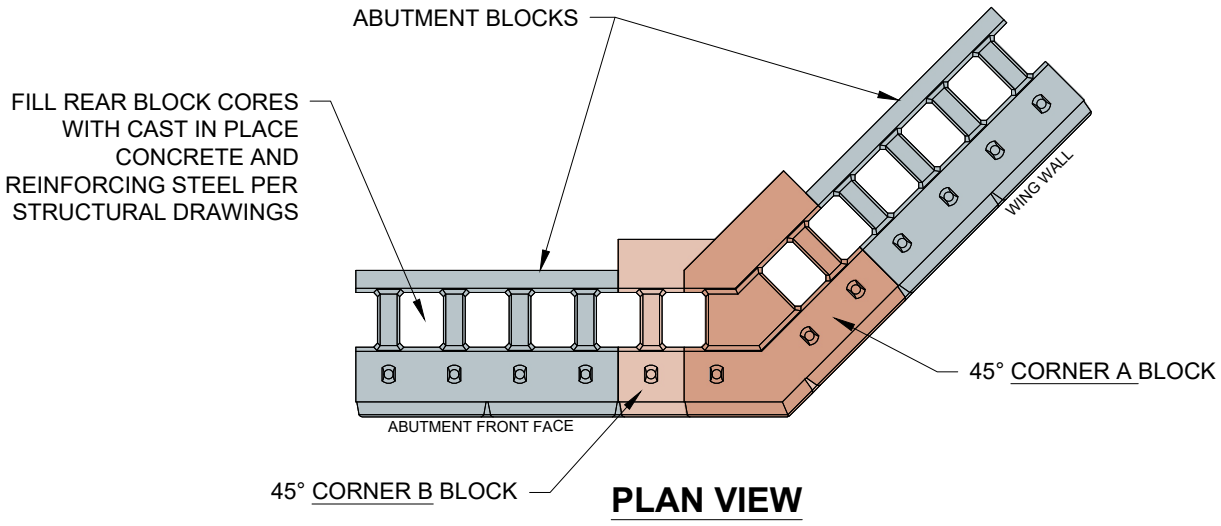
FILE NAME:
Velpont TOWW Step Down 116OCT2026.dwg

PROJECT:

DATE:	DRAWN BY:
16OCT2026	JRJ
PAGE: 1 of 1	REVISION: REV 2

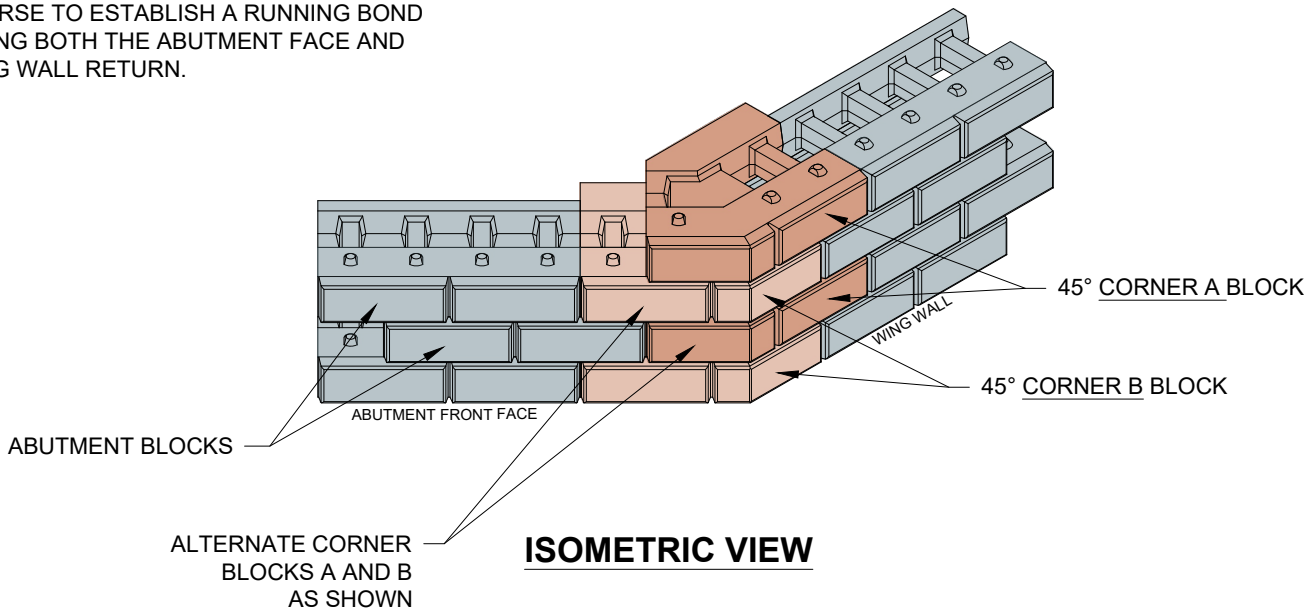
45° CORNER

NO SCALE



PLAN VIEW

ABUTMENT FACE DIMENSIONS DICTATE THE INITIAL CORNER BLOCK SELECTION AT THE BOTTOM COURSE. THE INSTALLER SHALL ALTERNATE BETWEEN CORNER BLOCK A AND CORNER BLOCK B ON EACH SUBSEQUENT COURSE TO ESTABLISH A RUNNING BOND ALONG BOTH THE ABUTMENT FACE AND WING WALL RETURN.



ISOMETRIC VIEW

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DRAWN BY: JACC	TITLE: 45° CORNER
DATE: 04-SEP-2026	
REVISION: REV 1	
PAGE: 1 of 1	FILE: Velpont_45_Degree_Corner_04SEP2026.dwg

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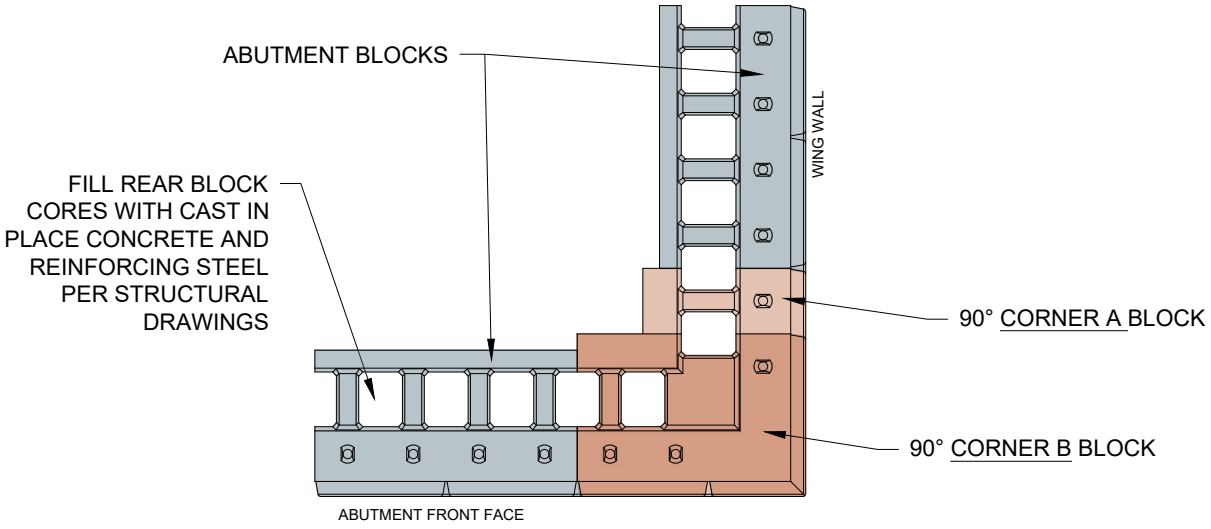
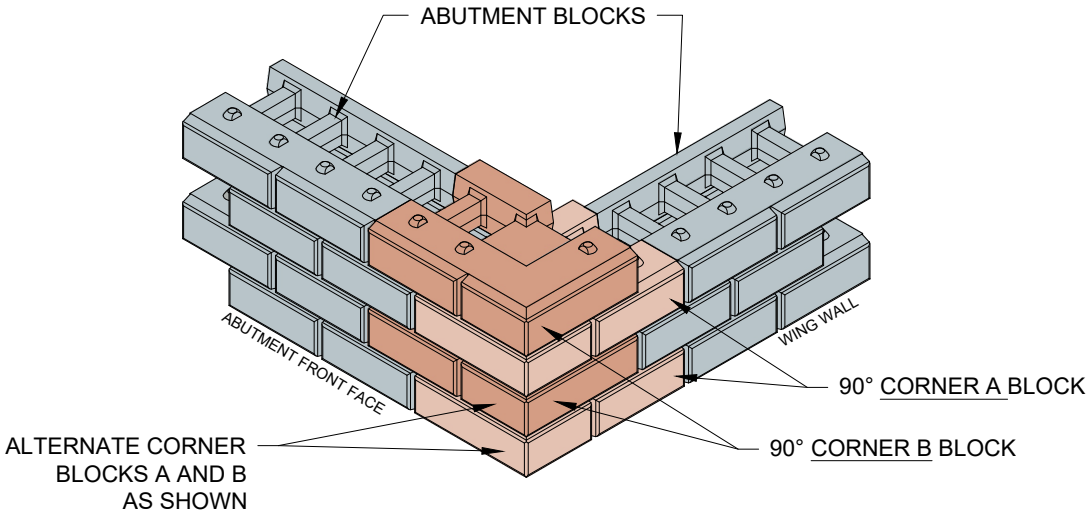
90° CORNER

NO SCALE



PLAN VIEW

ABUTMENT FACE DIMENSIONS DICTATE THE INITIAL CORNER BLOCK SELECTION AT THE BOTTOM COURSE. THE INSTALLER SHALL ALTERNATE BETWEEN CORNER BLOCK A AND CORNER BLOCK B ON EACH SUBSEQUENT COURSE TO ESTABLISH A RUNNING BOND ALONG BOTH THE ABUTMENT FACE AND WING WALL RETURN.



ISOMETRIC VIEW

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DRAWN BY: JACC	TITLE: 90° CORNER
DATE: 04-SEP-2026	
REVISION: REV 1	
PAGE: 1 of 1	FILE: Velpont_90_Degree_Corner_04SEP2026.dwg

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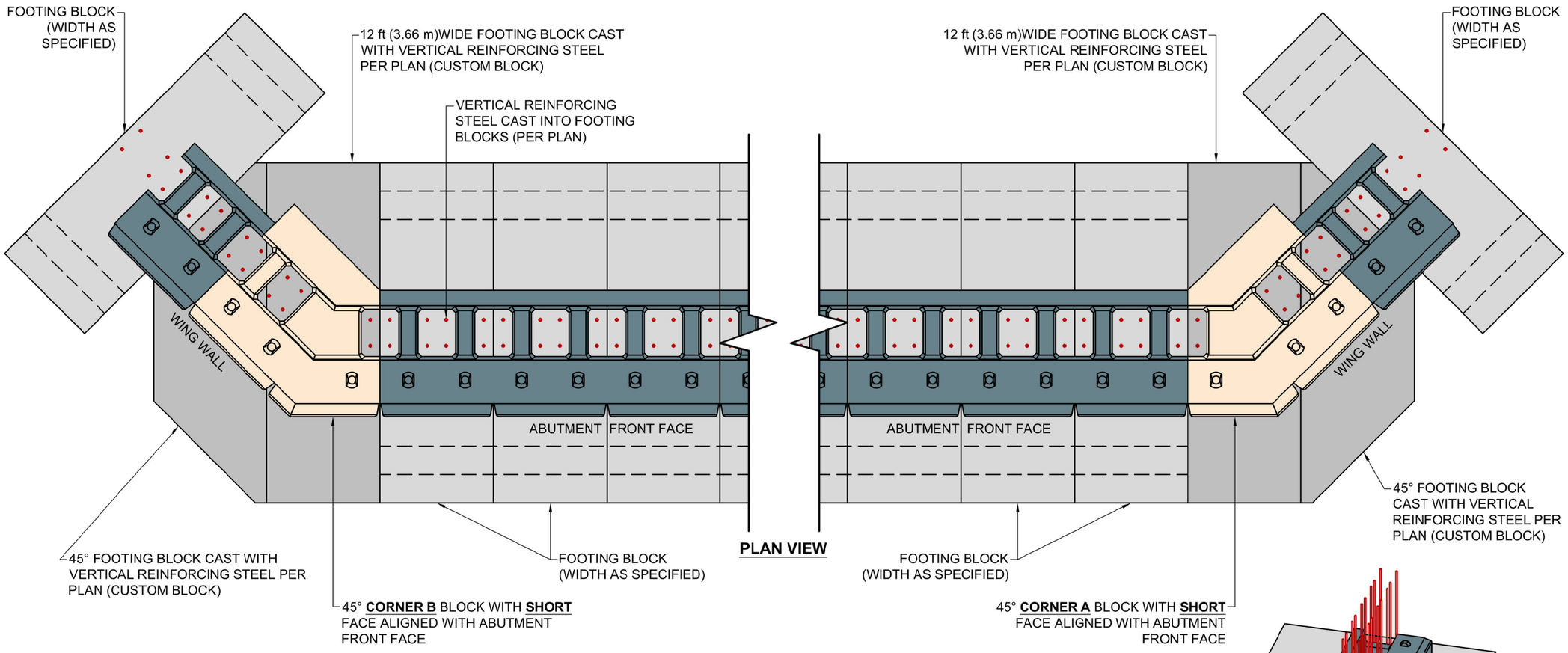
FOOTING BLOCK LAYOUT FOR ABUTMENTS WITH 45° CORNERS AND SHORT-SHORT FACE CORNER BLOCK ORIENTATION

NO SCALE

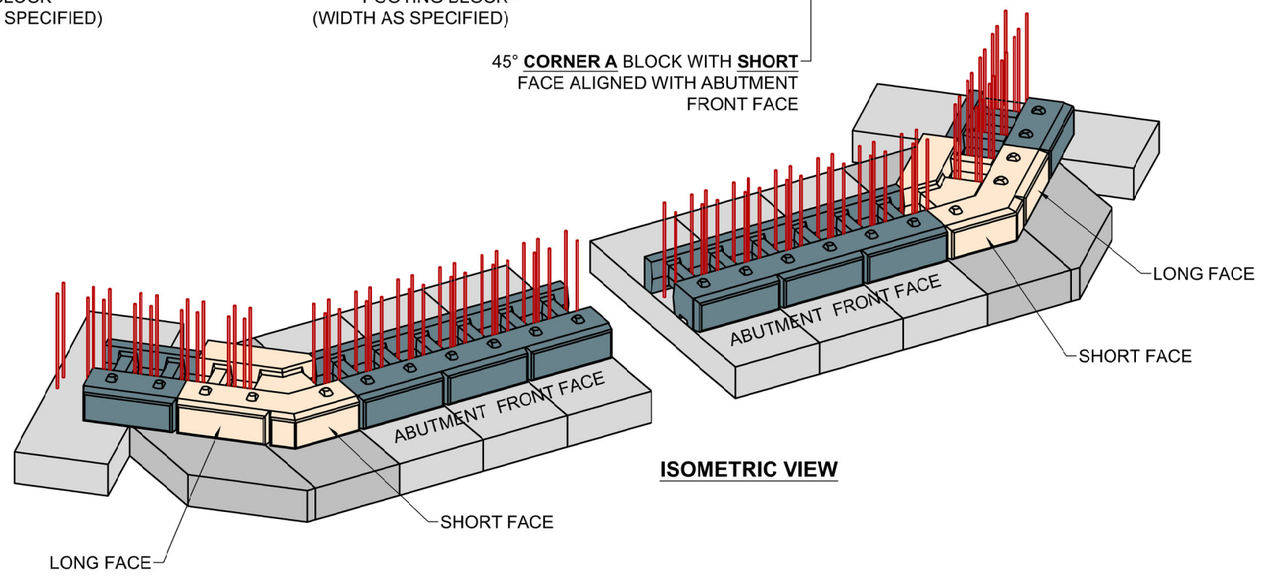


PLAN VIEW

NOTES

CORNER BLOCKS ARE TYPICALLY INSTALLED IN A SHORT-SHORT AND LONG-LONG PATTERN ON ALTERNATE ROWS TO MAINTAIN BOTH A 4 ft (1.22 m) BEAM SPACING AND A CONSISTENT RUNNING BOND INSTALLATION.

DESIGN STARTS BY SELECTING THE REQUIRED CONFIGURATION AT THE BEAM SEAT LEVEL AND ALTERNATING DESCENDING ROWS TO THE FOOTING BLOCK ELEVATION.



ISOMETRIC VIEW

GENERAL NOTES

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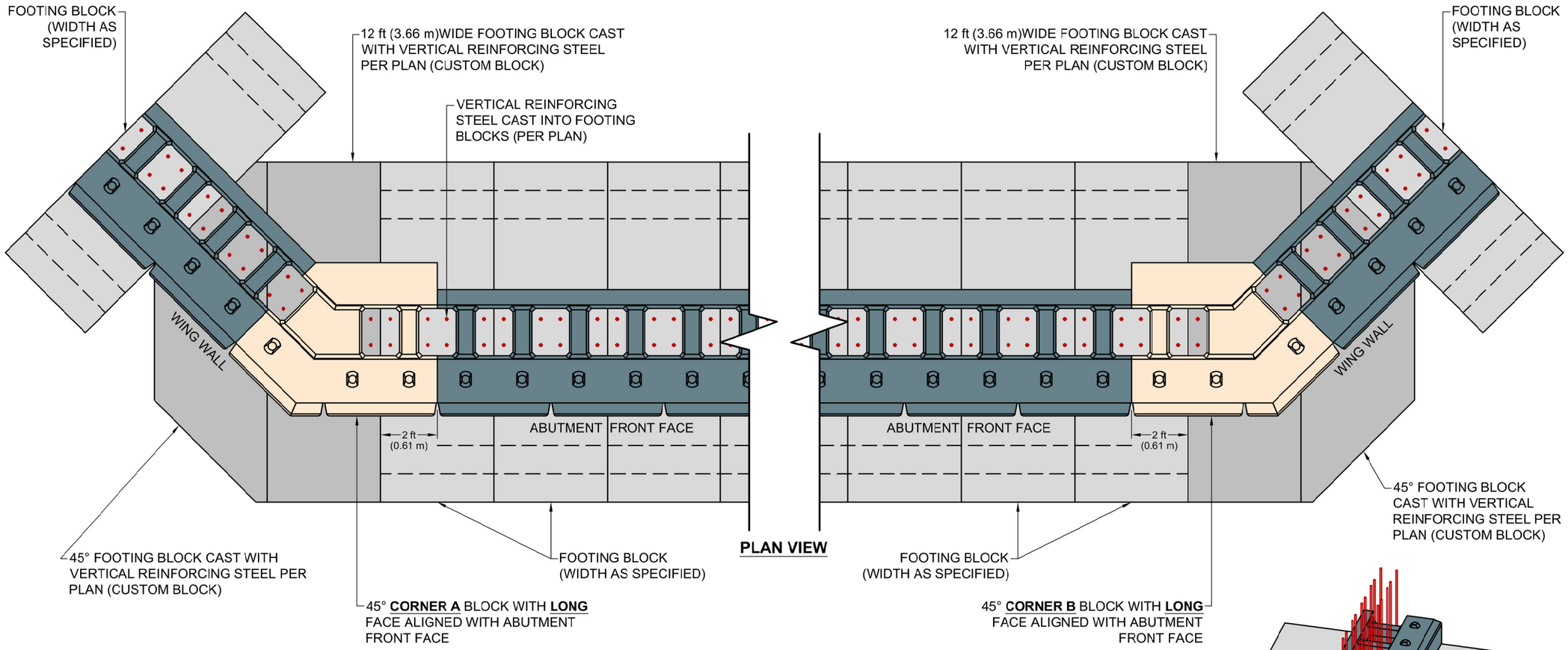
TITLE:
TYPICAL FOOTING BLOCK LAYOUT FOR SHORT-SHORT 45° CORNER BLOCK ORIENTATION

FILE NAME:
Footing Layout for 45 deg Corners 24SEP2026.dwg

PROJECT:	
DATE: 24SEP2026	DRAWN BY: JRJ
PAGE: 1 of 2	REVISION: REV 1

FOOTING BLOCK LAYOUT FOR ABUTMENTS WITH 45° CORNERS AND LONG-LONG FACE CORNER BLOCK ORIENTATION

NO SCALE



PLAN VIEW

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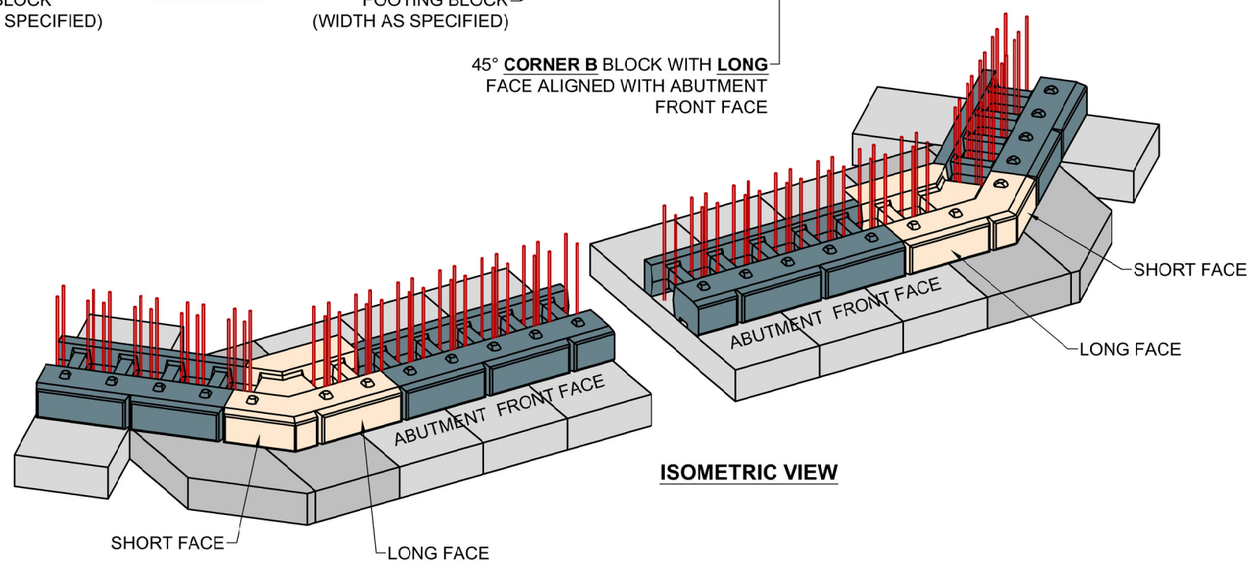

ISOMETRIC VIEW

GENERAL NOTES

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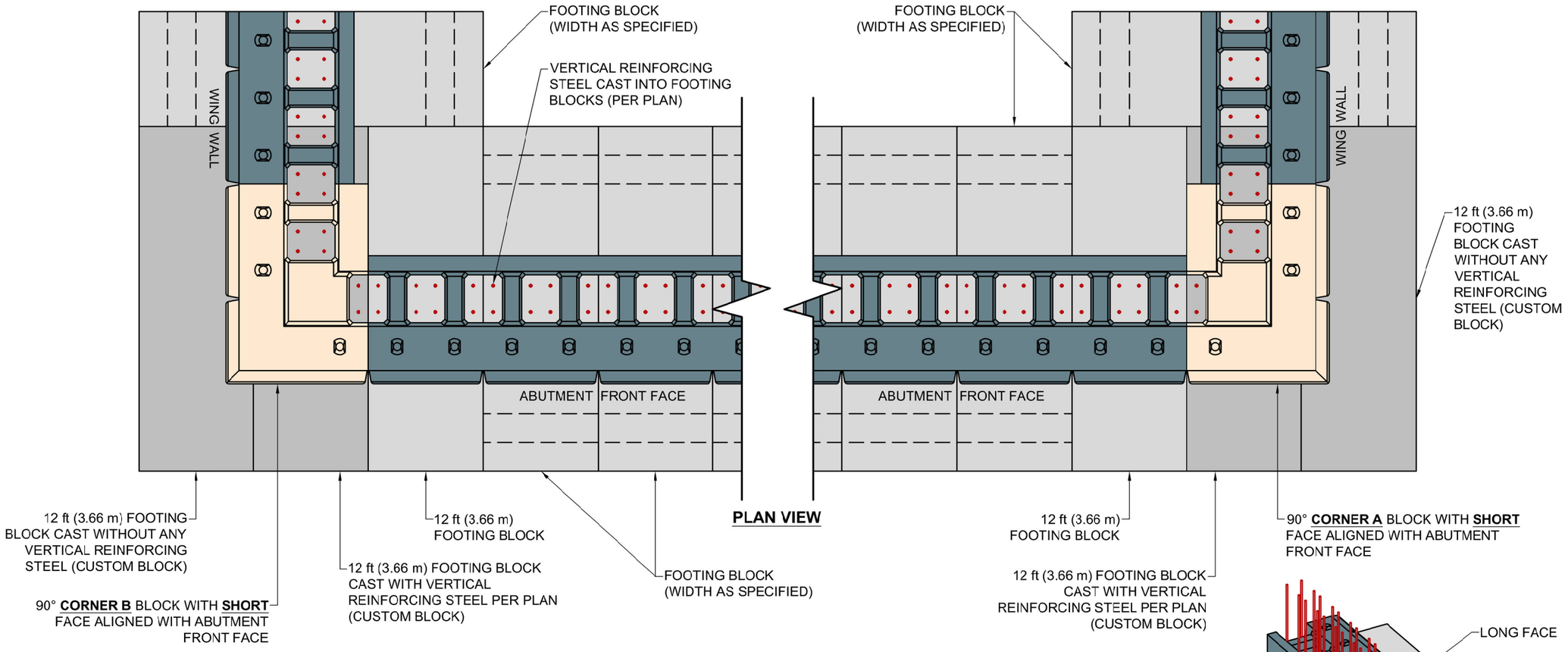
TITLE:
TYPICAL FOOTING BLOCK LAYOUT FOR LONG-LONG 45° CORNER BLOCK ORIENTATION

FILE NAME:
Footing Layout for 45 deg Corners 24SEP2026.dwg

PROJECT:	
DATE: 24SEP2026	DRAWN BY: JRJ
PAGE: 2 of 2	REVISION: REV 1

FOOTING BLOCK LAYOUT FOR ABUTMENTS WITH 90° CORNERS AND SHORT-SHORT FACE CORNER BLOCK ORIENTATION

NO SCALE



PLAN VIEW

NOTES

CORNER BLOCKS ARE TYPICALLY INSTALLED IN A SHORT-SHORT AND LONG-LONG PATTERN ON ALTERNATE ROWS TO MAINTAIN BOTH A 4 ft (1.22 m) BEAM SPACING AND A CONSISTENT RUNNING BOND INSTALLATION.

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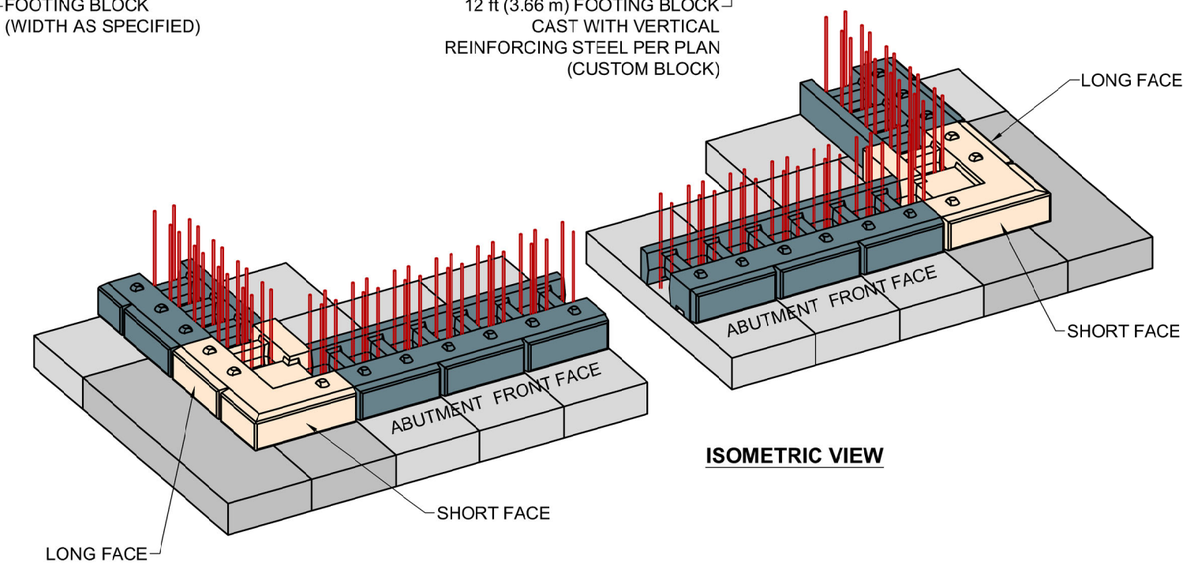

ISOMETRIC VIEW

GENERAL NOTES

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TITLE:
TYPICAL FOOTING BLOCK LAYOUT FOR SHORT-SHORT 90° CORNER BLOCK ORIENTATION

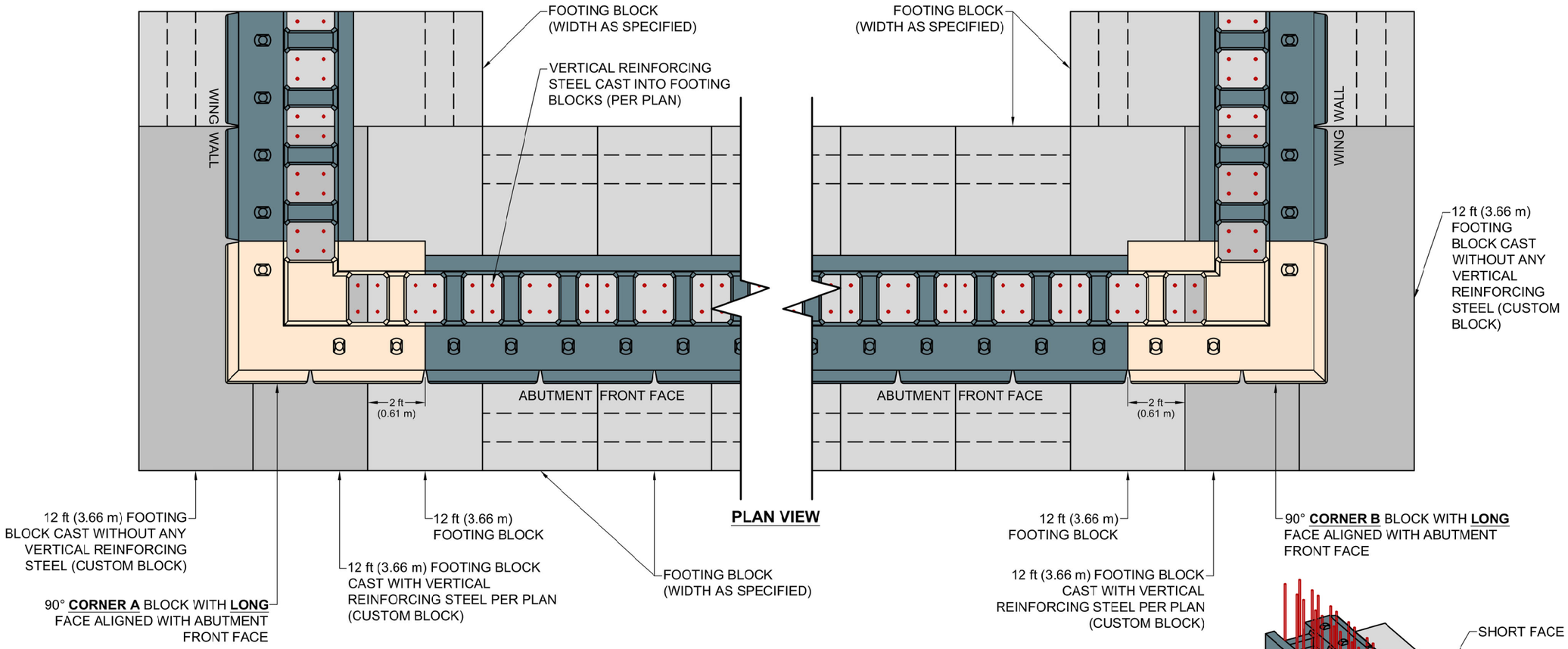
FILE NAME:
Footing Layout for 90 deg Corners 24SEP2026.dwg

PROJECT:

DATE:	DRAWN BY:
24SEP2026	JRJ
PAGE: 1 of 2	REVISION: REV 1

FOOTING BLOCK LAYOUT FOR ABUTMENTS WITH 90° CORNERS AND LONG-LONG FACE CORNER BLOCK ORIENTATION

NO SCALE

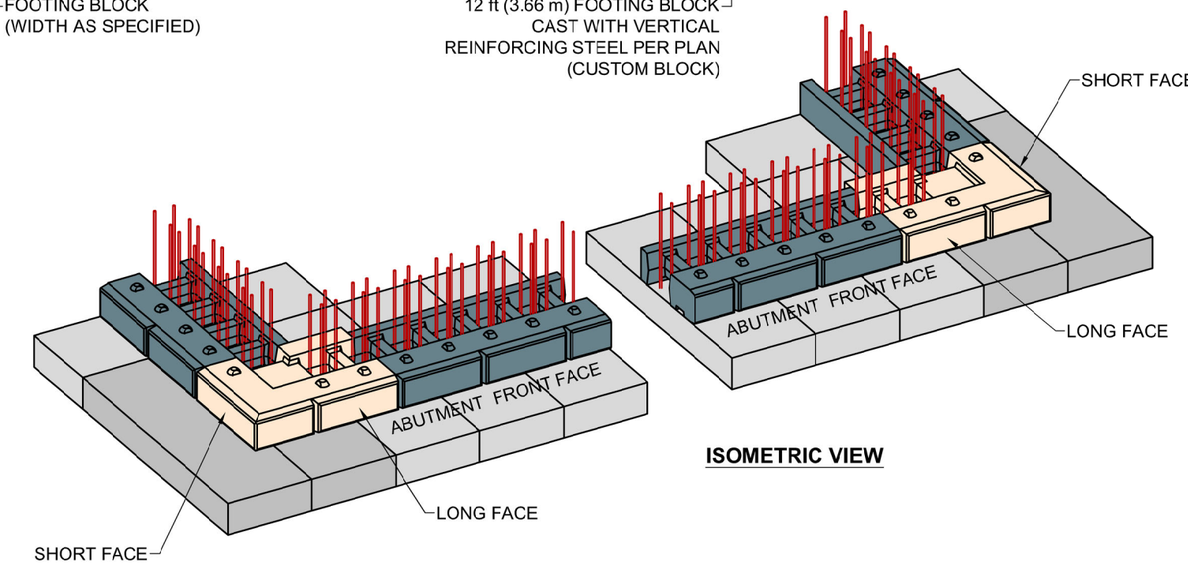


PLAN VIEW

NOTES

CORNER BLOCKS ARE TYPICALLY INSTALLED IN A SHORT-SHORT AND LONG-LONG PATTERN ON ALTERNATE ROWS TO MAINTAIN BOTH A 4 ft (1.22 m) BEAM SPACING AND A CONSISTENT RUNNING BOND INSTALLATION.

DESIGN STARTS BY SELECTING THE REQUIRED CONFIGURATION AT THE BEAM SEAT LEVEL AND ALTERNATING DESCENDING ROWS TO THE FOOTING BLOCK ELEVATION.



ISOMETRIC VIEW

GENERAL NOTES

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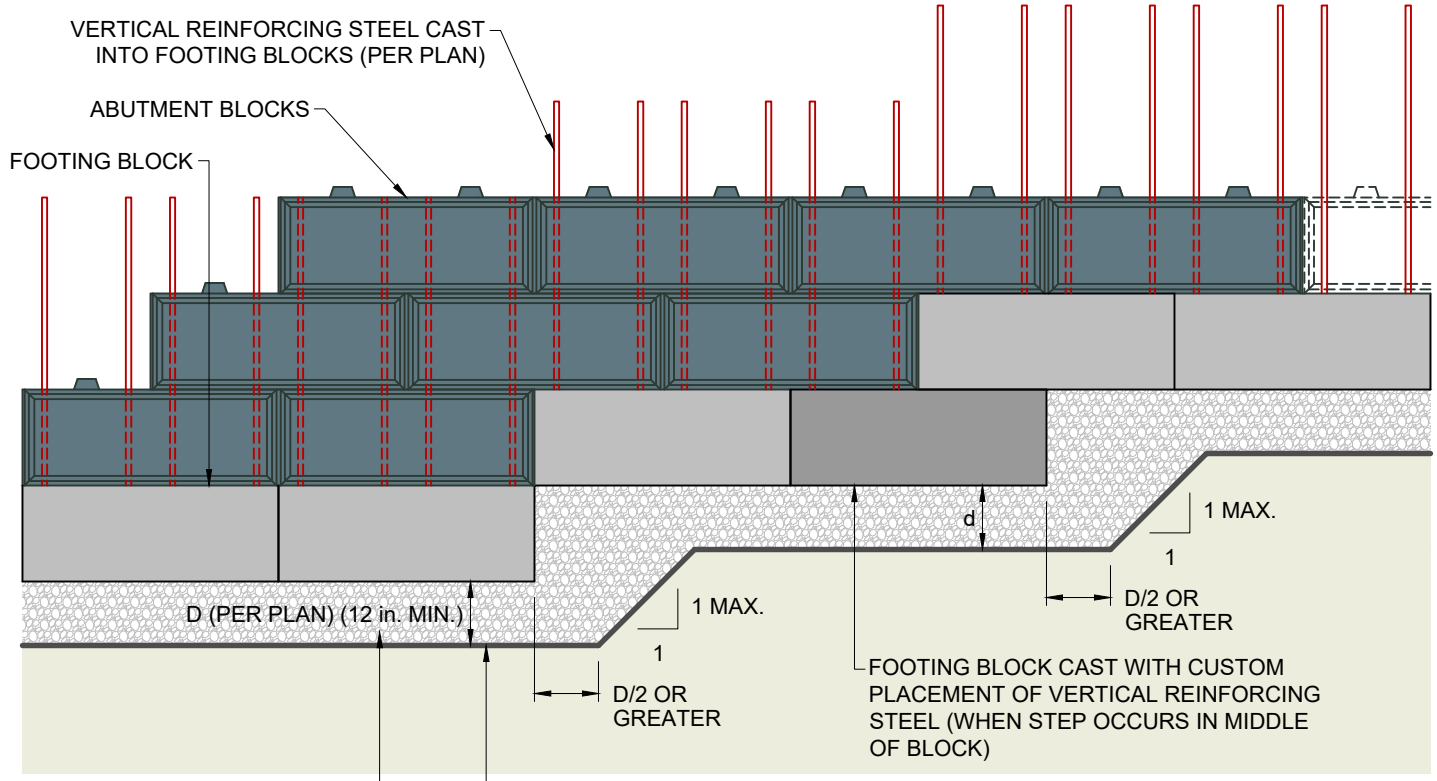
TITLE:
TYPICAL FOOTING BLOCK LAYOUT FOR LONG-LONG 90° CORNER BLOCK ORIENTATION

FILE NAME:
Footing Layout for 90 deg Corners 24SEP2026.dwg

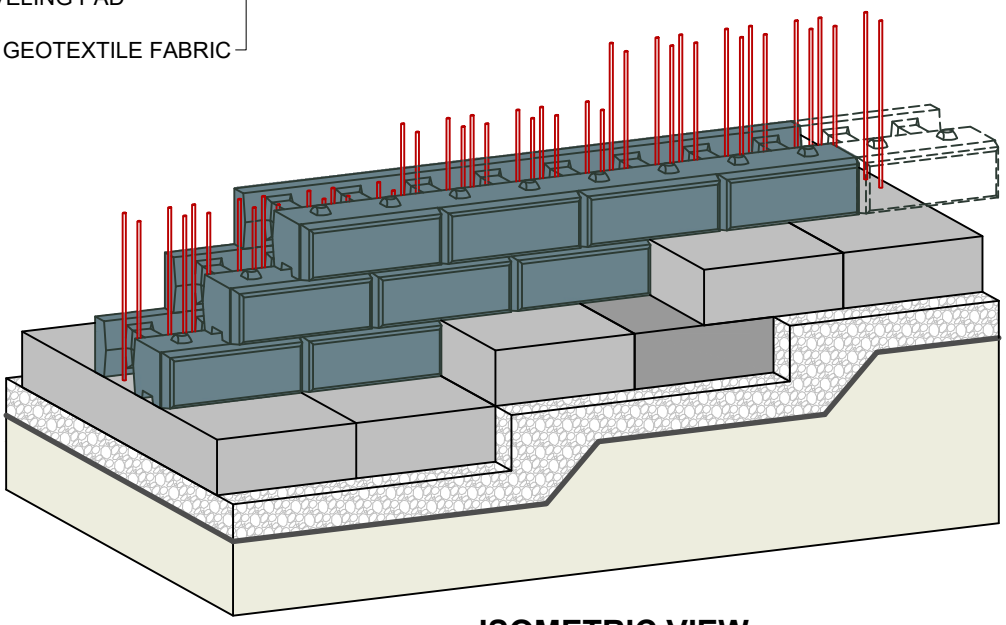
PROJECT:	
DATE: 24SEP2026	DRAWN BY: JRJ
PAGE: 2 of 2	REVISION: REV 1

STEPPED FOOTING BLOCK LAYOUT

NO SCALE



PROFILE VIEW



ISOMETRIC VIEW

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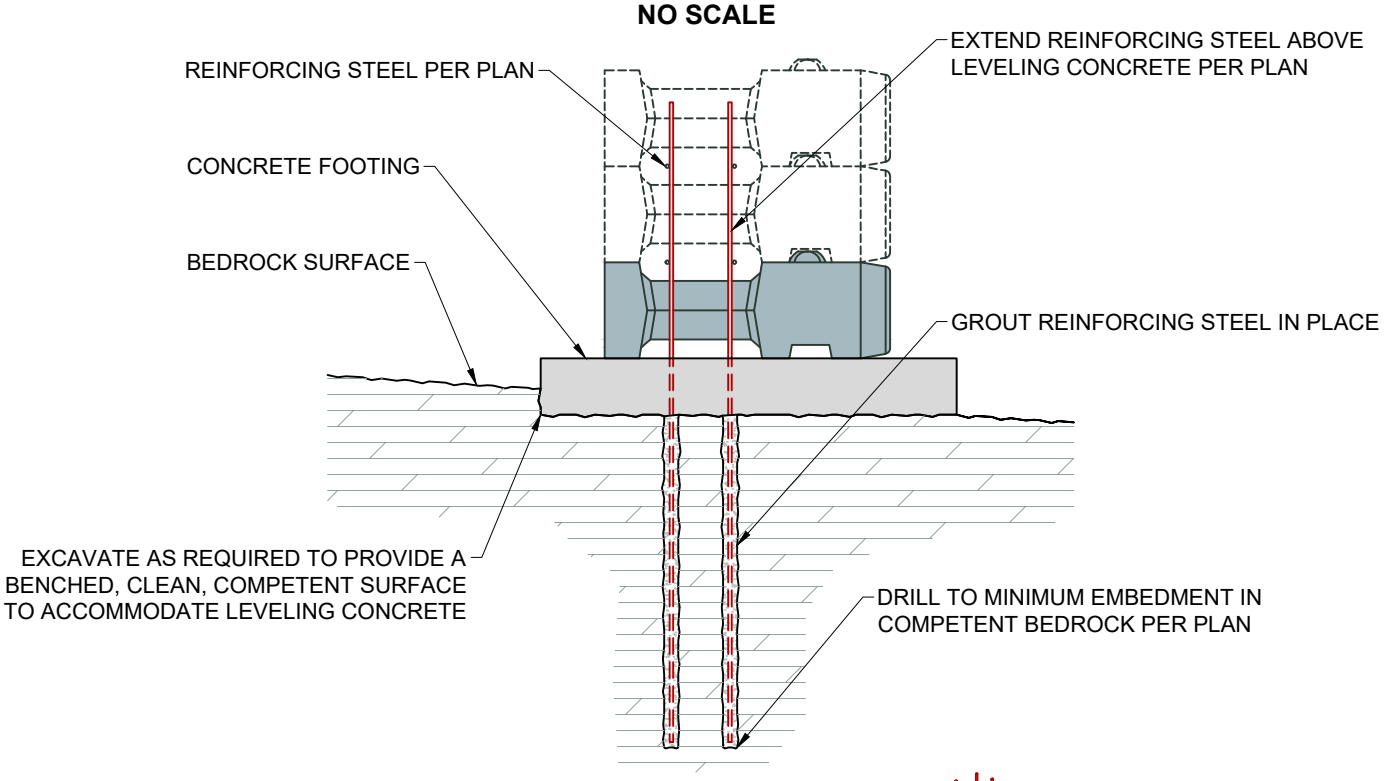
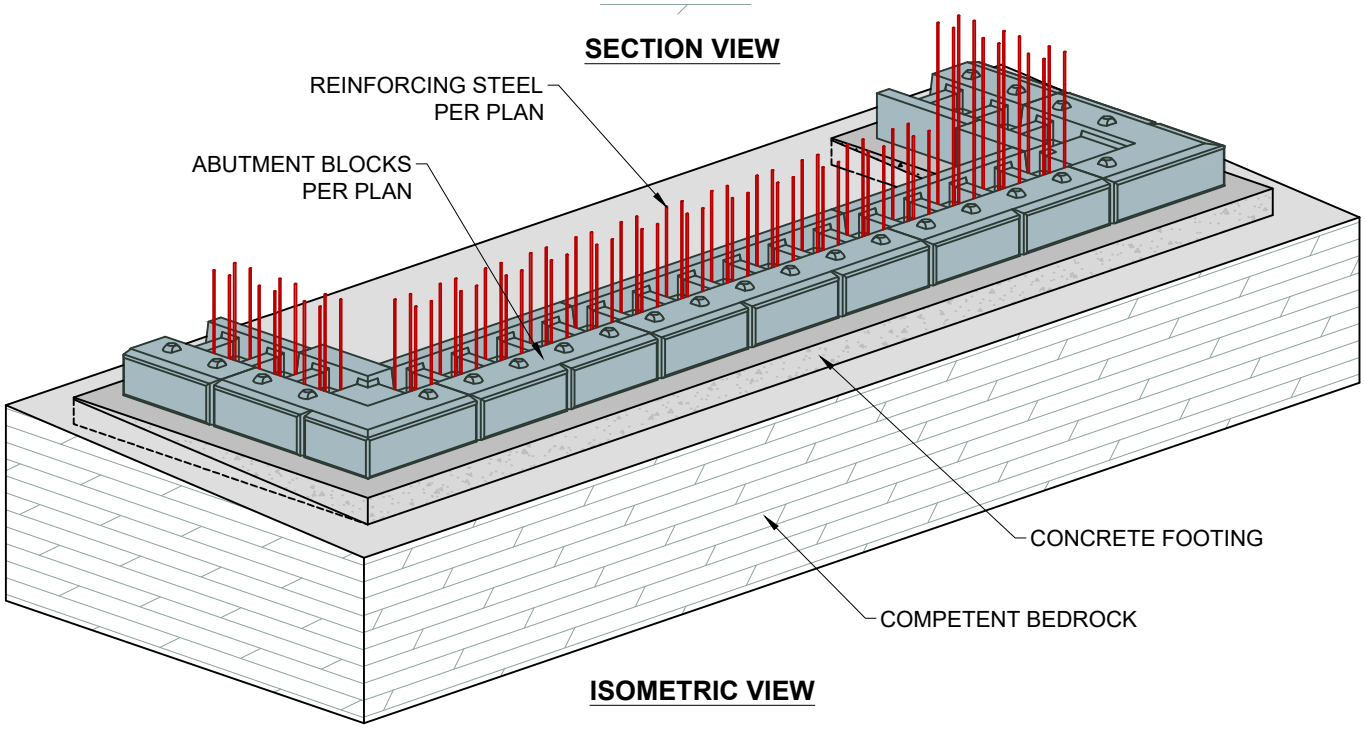
DRAWN BY: JRJ	TITLE: **STEPPED FOOTING BLOCK LAYOUT**	Velpont®
DATE: 17-SEP-26		8212 M-119 Harbor Springs, MI 49740
REVISION:		(866) 222-8400 ext 33010
PAGE: 1 of 1	FILE: VELPONT STEPPED FOOTING BLOCK LAYOUT 17SEP2026.dwg	engineering@asterbrands.com • www.velpont.com

ABUTMENT INSTALLATION ON BEDROCK

NO SCALE



SECTION VIEW



ISOMETRIC VIEW

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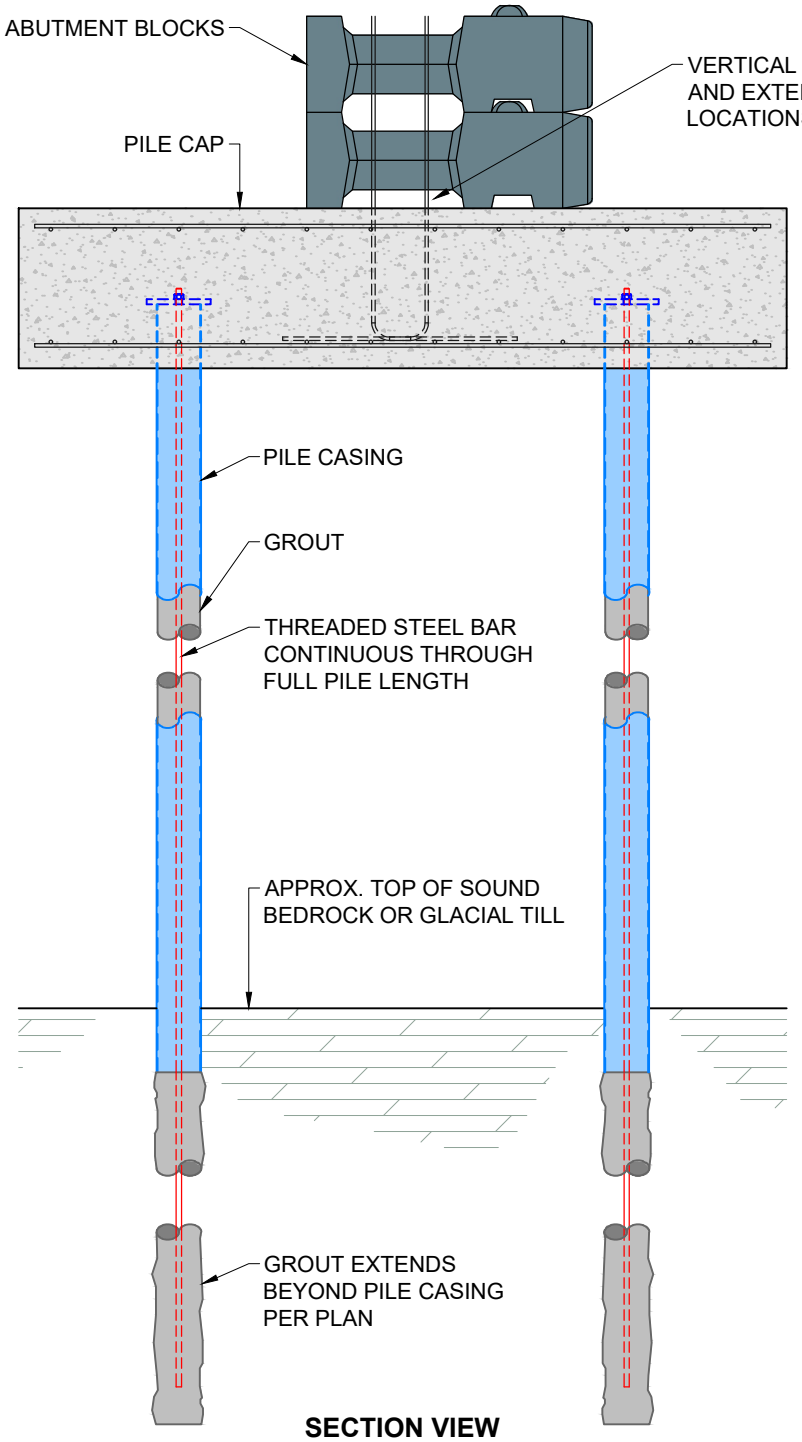
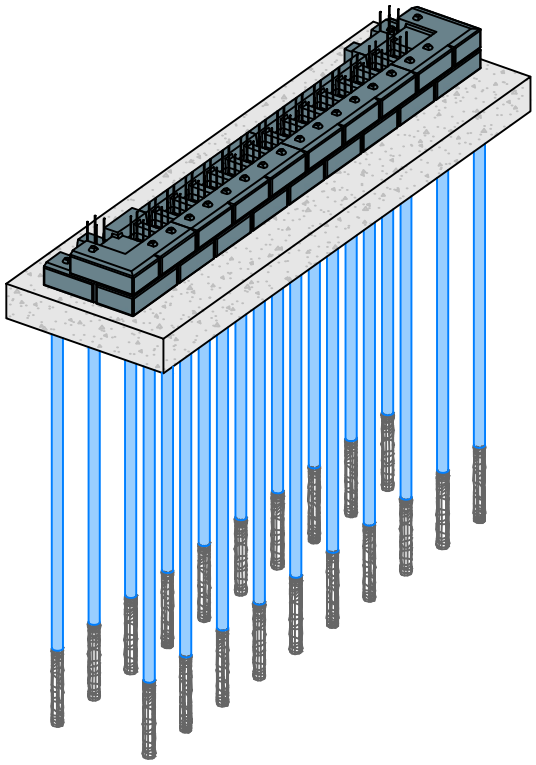
DRAWN BY: JRJ	TITLE: ABUTMENT INSTALLATION ON BEDROCK	Velpont®
DATE: 27-AUG-26		8212 M-119 Harbor Springs, MI 49740
REVISION: REV 1		(866) 222-8400 ext 33010
PAGE: 1 of 1	FILE: VELPONT ABUTMENT INSTALLATION ON BEDROCK 27AUG2026.dwg	engineering@asterbrands.com • www.velpont.com

ABUTMENT INSTALLATION ON MICROPILES

NO SCALE



SECTION VIEW



ISOMETRIC VIEW

CONCEPTUAL DETAIL SHOWN. ONLY APPLICABLE FOR PROJECTS SUITABLE FOR PILE INSTALLATION.

EXAMPLE PILE COMPONENTS SHOWN. SEE PROJECT PLANS AND SPECIFICATIONS FOR SPECIFIC DETAILS.

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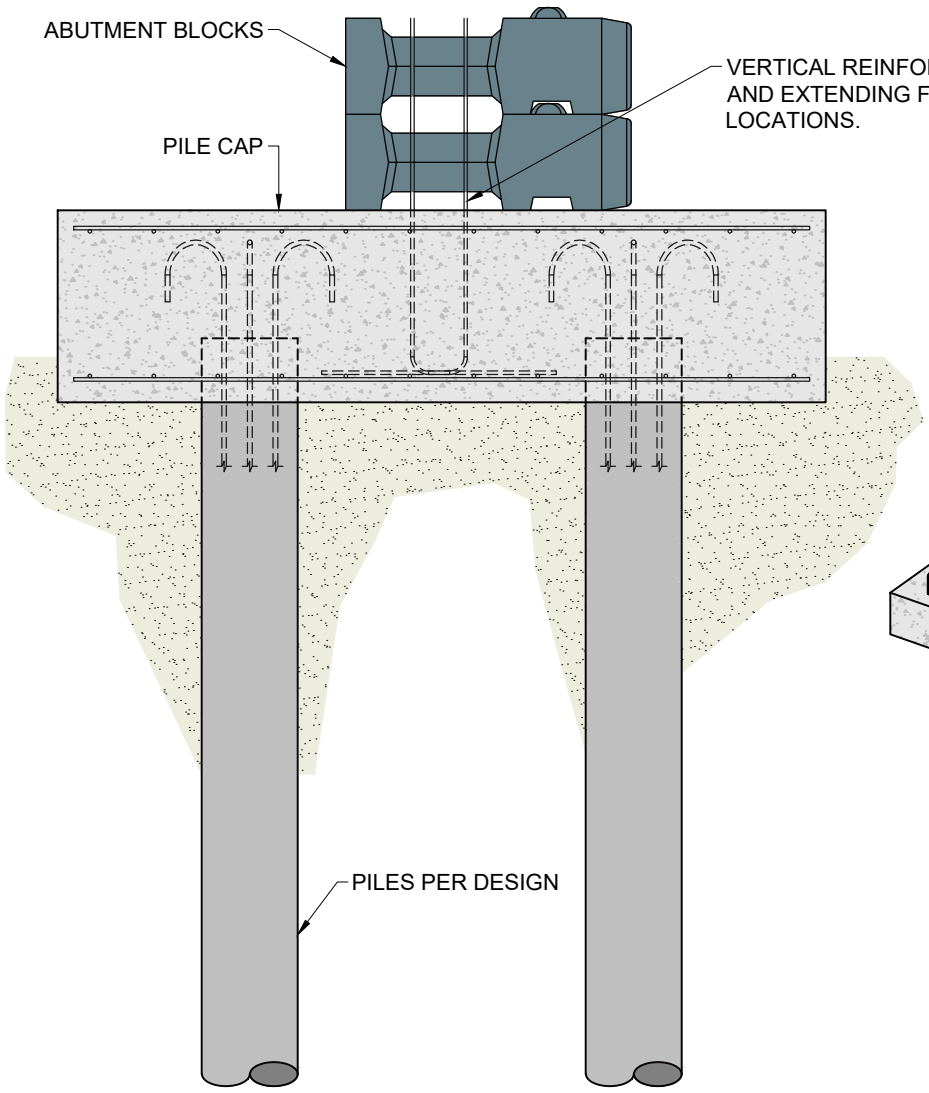
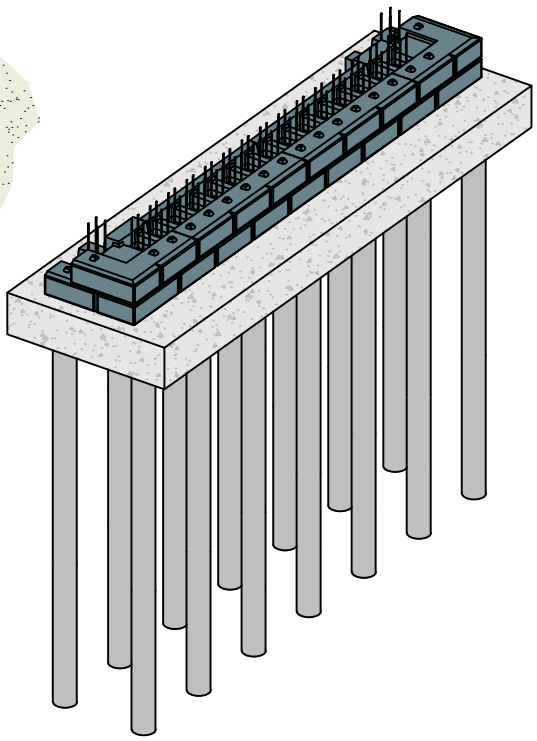
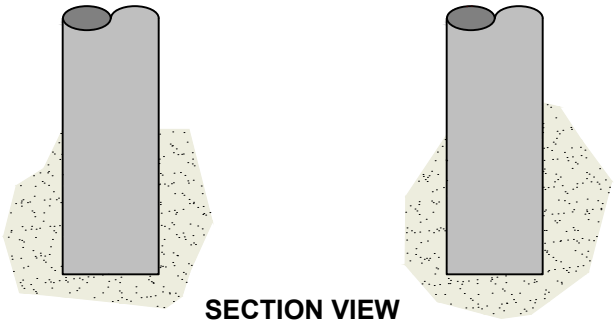
ABUTMENT INSTALLATION ON PILES

NO SCALE





ISOMETRIC VIEW



SECTION VIEW

CONCEPTUAL DETAIL SHOWN. ONLY APPLICABLE FOR PROJECTS SUITABLE FOR PILE INSTALLATION.

EXAMPLE PILE COMPONENTS SHOWN. SEE PROJECT PLANS AND SPECIFICATIONS FOR SPECIFIC DETAILS.

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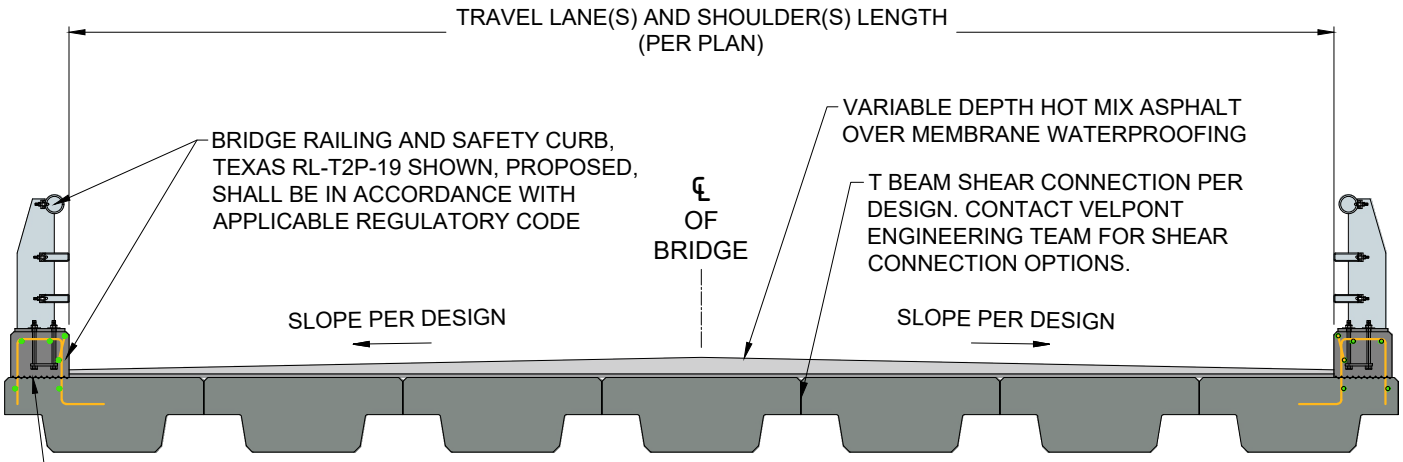
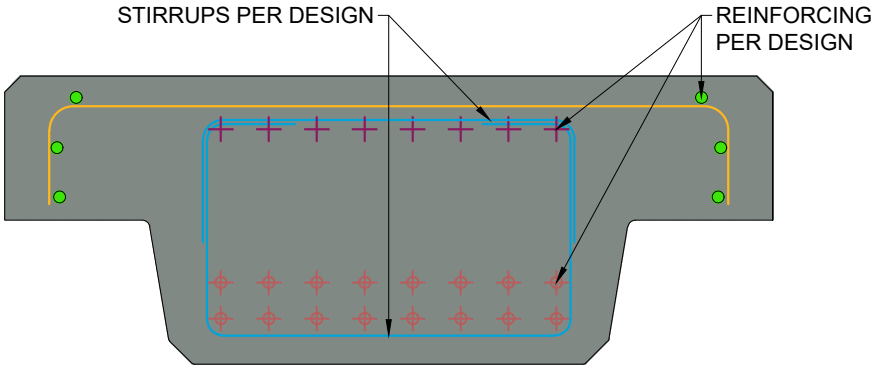
TYPICAL SUPERSTRUCTURE DETAIL

NO SCALE



TRANSVERSE SECTION VIEW

* EXTERIOR T BEAM MAY REQUIRE DIFFERENT REINFORCEMENT LAYOUT TO ACCOMMODATE SAFETY CURB AND BRIDGE RAILING.



⌖ DENOTES LOCATIONS OF MAIN LONGITUDINAL REINFORCING.

T BEAM REINFORCEMENT CROSS-SECTION*

NOTE: REINFORCEMENT DESIGN AND LAYOUT WILL BE PROJECT SPECIFIC. THE REINFORCEMENT IN THIS DETAIL ONLY SHOWS AN EXAMPLE FOR REFERENCE AND IS NOT INTENDED TO BE USED OR REPLACE PROJECT SPECIFIC DESIGN.

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DRAWN BY: EGS/LBR	TITLE: **VELPONT TYPICAL SUPERSTRUCTURE DETAIL**
DATE: 02-OCT-26	
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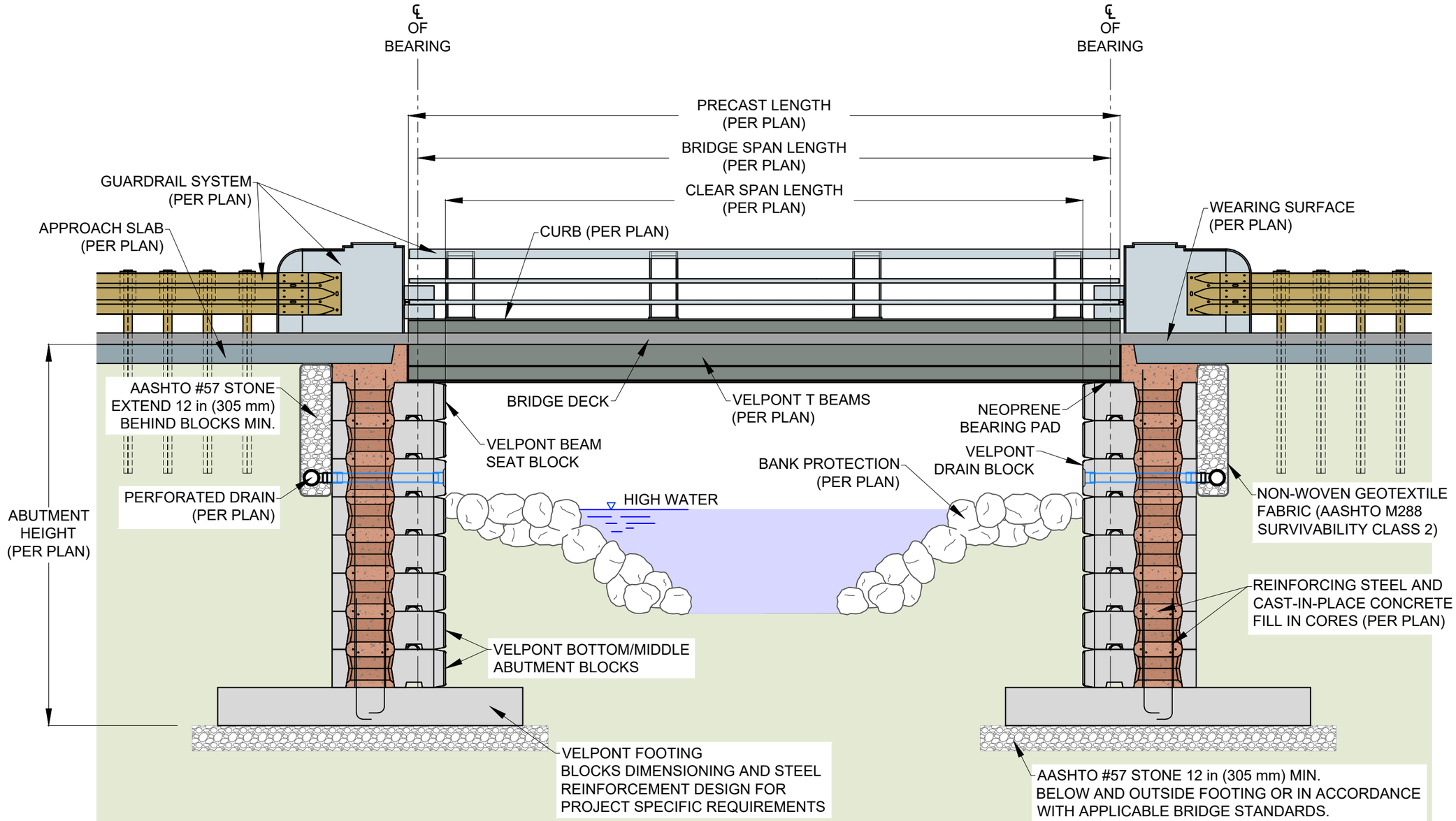

ELEVATION VIEW

NO SCALE

NOTES:

1) ALL VELPONT BLOCKS AND T BEAMS HAVE REINFORCING STEEL INSTALLED DURING CASTING PROCESS. NOT SHOWN FOR DRAWING CLARITY. AVAILABLE UPON REQUEST.
2) ALTERNATE FOUNDATION CONFIGURATIONS ARE POSSIBLE BASED ON SITE-SPECIFIC CONDITIONS.
3) ▭ DENOTES 16 in (406 mm) x 20 in (508 mm) VOID IN VELPONT ABUTMENT BLOCKS AND CIP BACK WALL.

GENERAL NOTES

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TITLE:
VELPONT BRIDGE TYPICAL CROSS-SECTION

FILE NAME:
Bridge Typical Section 01SEP2026.dwg

PROJECT:

DATE:	DRAWN BY:
01SEP2026	MTJ
PAGE: 1 of 1	REVISION: REV 1