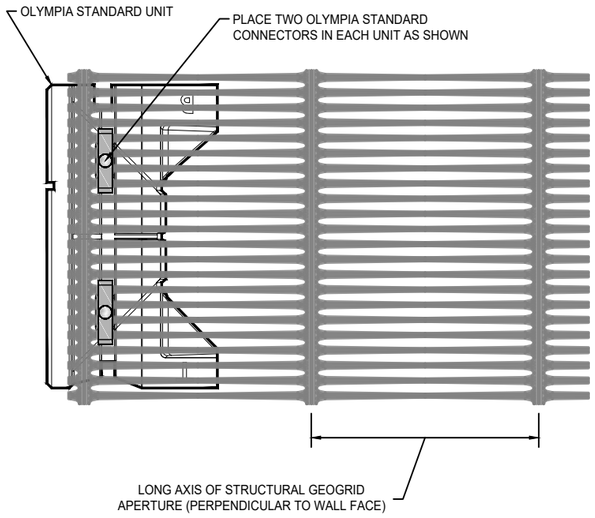
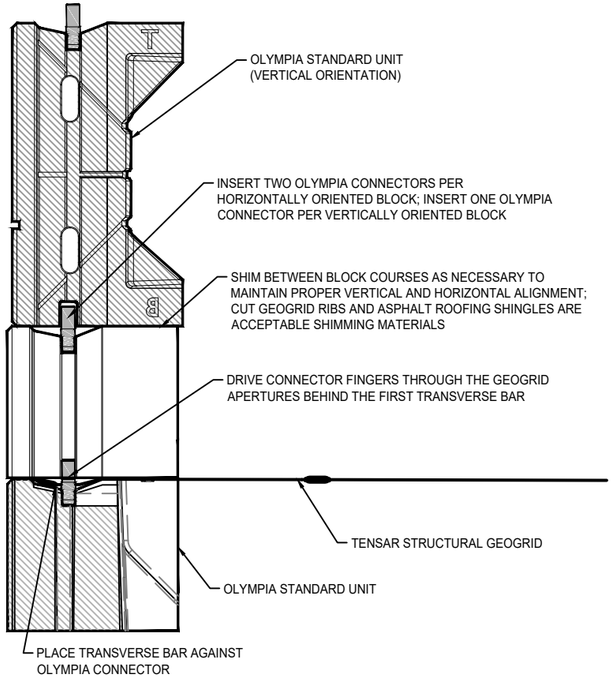
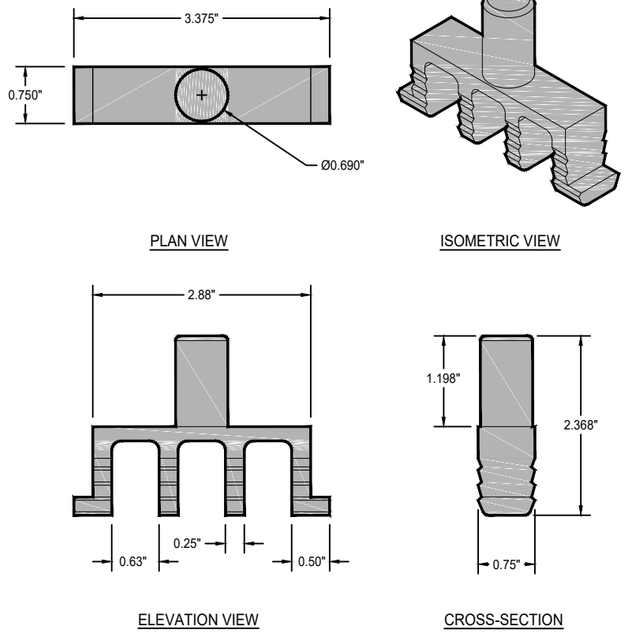


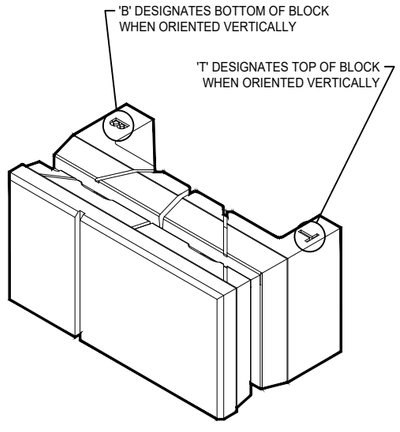
GEOGRID ORIENTATION
NOT TO SCALE

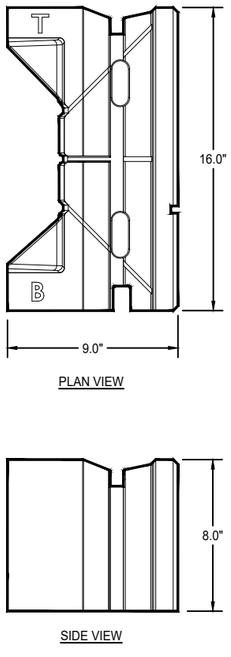


GEOGRID CONNECTION DETAIL
NOT TO SCALE

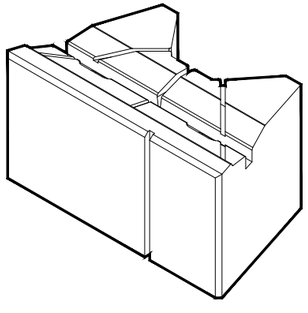


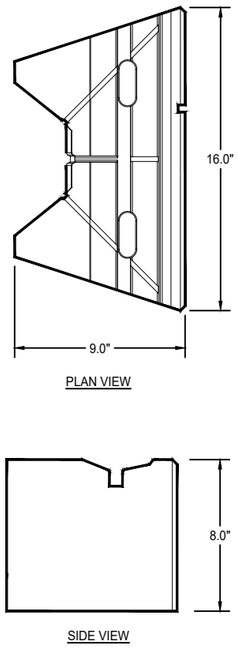
OLYMPIA STANDARD CONNECTOR
NOT TO SCALE



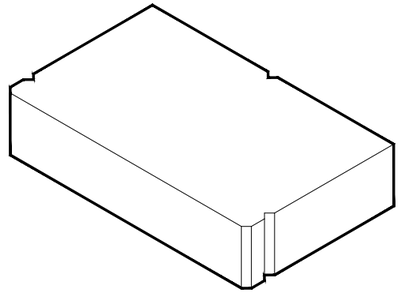


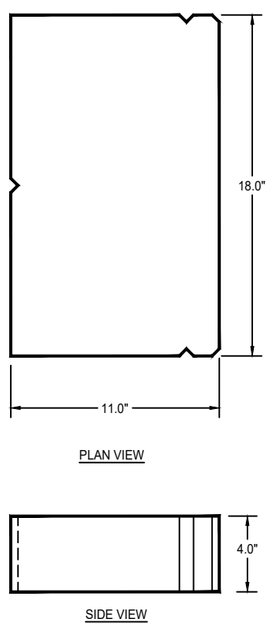
OLYMPIA STANDARD UNIT
NOT TO SCALE


ISOMETRIC VIEW



OLYMPIA RADIUS UNIT
NOT TO SCALE


ISOMETRIC VIEW



NOTE: DIMENSIONS VARY BASED ON PRODUCT AVAILABILITY

CAP UNIT
NOT TO SCALE

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Tensar International Corporation
2500 Northwinds Parkway | Suite 500
Alpharetta, Georgia 30009 | 770-344-2090

OLYMPIA® RETAINING WALL SYSTEMS

PROJECT NAME AND LOCATION

TIC STANDARD DETAILS

----, ----

OWNER

OWNER PROJECT No. ----

CLIENT

TIC PROJECT No. ----

DRAWN BY: O. MARTINEZ
DESIGNED BY: ---
CHECKED BY : R. JOHNSON
ENGINEER OF RECORD (MSE STRUCTURE ONLY):
---- ----

NO.	DATE	DESCRIPTION	BY
0	11/3/17	ISSUED FOR REVIEW	RJ

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SCALE: AS SHOWN

SHEET 1 OF ----

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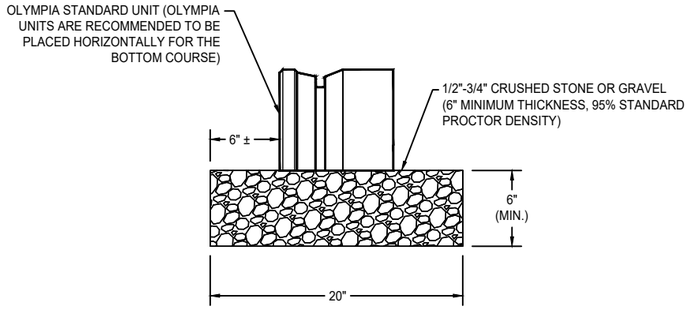
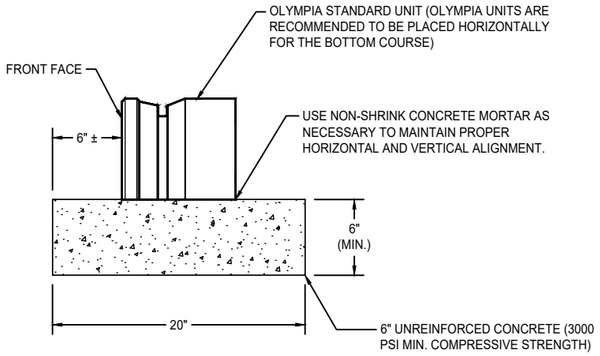


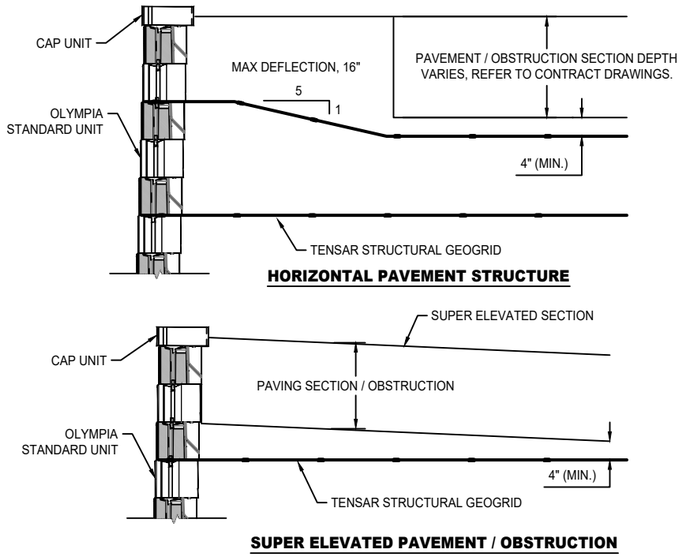
GRAVEL LEVELING PAD DETAIL

NOT TO SCALE



CONCRETE LEVELING PAD DETAIL

NOT TO SCALE

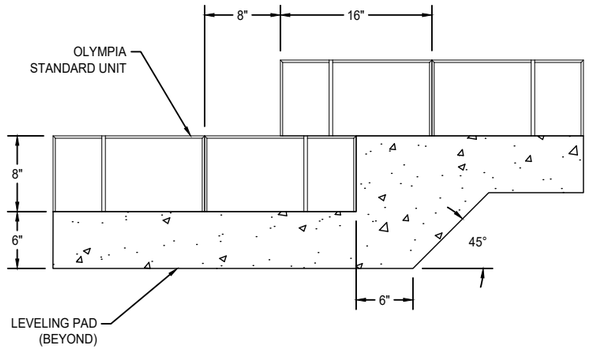


GEOGRID PLACEMENT AT PAVEMENT / OBSTRUCTION SECTION

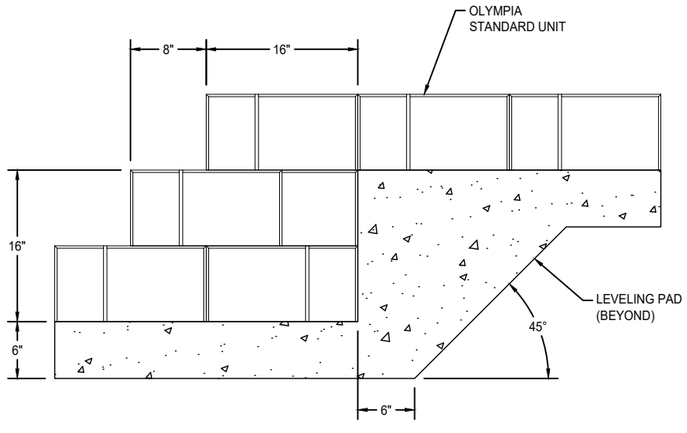
NOT TO SCALE

NOTE:

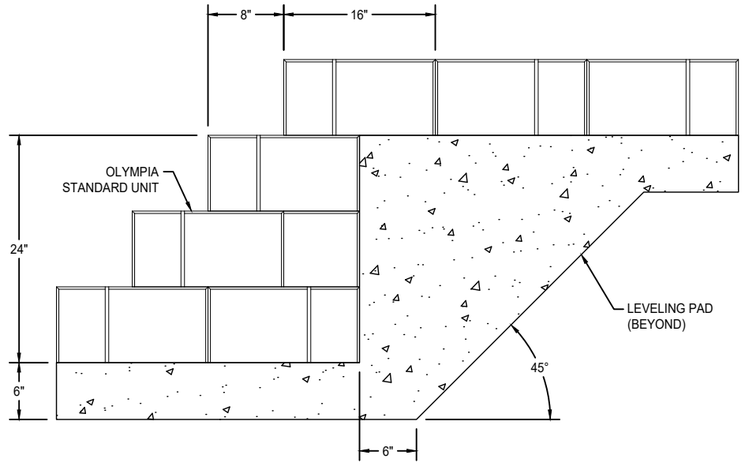
CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PLACEMENT OF THE GEOGRID TO AVOID CONFLICT WITH THE CONTRACT PAVEMENT / OBSTRUCTION SECTION. GEOGRID MUST BE SEPARATED FROM THE PAVEMENT / OBSTRUCTION SECTION BY A MINIMUM OF 4".



CASE 1: ONE BLOCK STEP (ELEVATION)



CASE 2: TWO BLOCK STEP (ELEVATION)



CASE 3: THREE BLOCK STEP (ELEVATION)

1, 2 & 3 BLOCK STEP DETAIL

NOT TO SCALE

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Alpharetta, Georgia 30009 | 770-344-2090

OLYMPIA® RETAINING WALL SYSTEMS

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DESIGNED BY: ----

CHECKED BY : R. JOHNSON

ENGINEER OF RECORD (MSE STRUCTURE ONLY):

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FABRIC AND GRAVEL FILL SPECIFICATION

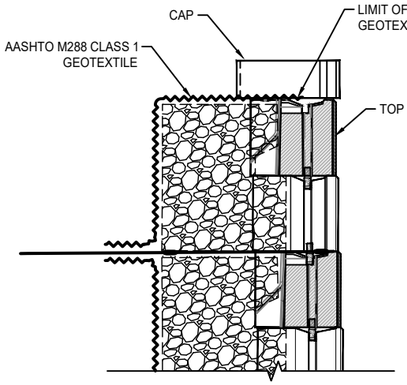
When the select fill used in the reinforced zone for the Project is considered free-draining (less than 5% passing the No. 200 sieve), no geotextile or gravel fill is required behind the Olympia facing units unless prescribed by the Project Engineer. When the select fill contains fines in excess of 5%, a 12" column of gravel fill is required directly behind the Olympia units. If water is anticipated to flow from the select fill into the gravel fill, a geotextile separator fabric is required to be installed as shown on this sheet. Walls not subjected to flood or rapid drawdown conditions and where proper drainage measures are implemented to mitigate surface and subsurface water, a geotextile separator fabric is not required.

If required per the note above, the geotextile separator shall be an eight (8) oz. per square yard nonwoven needle-punched AASHTO Class 1 fabric. Unless otherwise approved by Tensar, the geotextile shall be delivered to the project site in rolls that have been factory cut to the specified widths for the installation.

INSTALLATION PROCEDURE

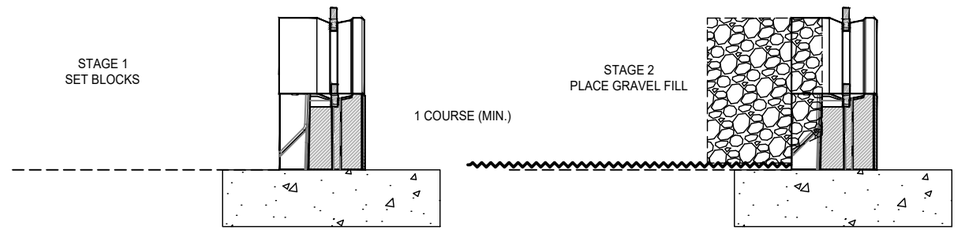
1. Install each course of the Olympia facing units between the top of the last geogrid placed and the bottom the next layer of geogrid above as shown on the approved shop drawings. The facing units shall be aligned and leveled in accordance with installation guide.
2. Prior to placing the select backfill and if required, gravel fill and geotextile fabric shall be installed. The geotextile shall be placed behind the units such that a minimum of six (6) inches of material is turned into the fill at the top and the bottom. The geotextile shall then be adjusted to present a relatively smooth surface.
3. The select backfill shall then be placed and compacted in accordance with the approved shop drawings and project specifications.
4. After the select backfill has been compacted and properly graded for the installation of the next layer of geogrid reinforcement, the geotextile on the top units shall be pulled back onto the backfill.
5. Install the geogrid reinforcement and repeat the process commencing with step 1 above.
6. After the last elevation layer of primary geogrid reinforcement has been placed, install the remaining courses of Olympia facing units in accordance with the details on the approved shop drawings.
7. Prior to installation of cap unit, place a line of adhesive in the depressed area between the connector slot and the face of the unit per Detail S1.
8. Place a line of adhesive along the top of the Olympia Standard units just behind the face per Detail S2.
9. Butt sides of cap units as shown in Detail S3.

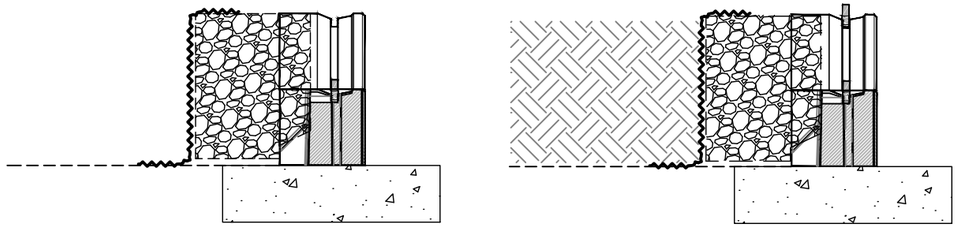
Geotextile widths required for the detail:
AASHTO M288 Class 1: 36 inch

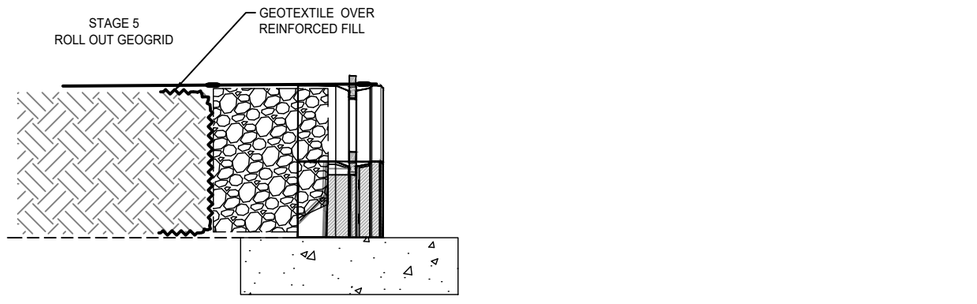


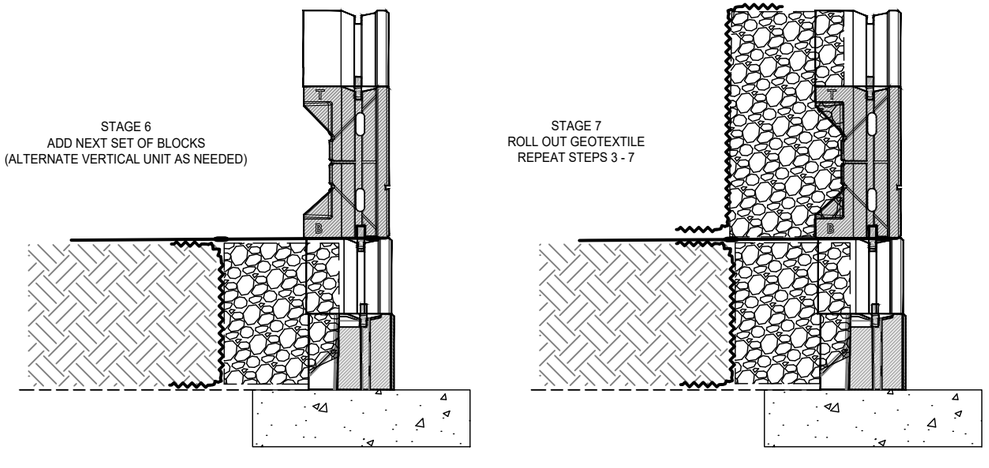
TYPICAL TOP SECTION
NOT TO SCALE

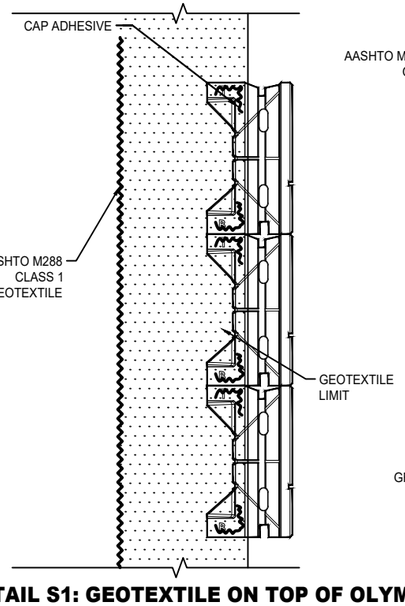
STAGES OF GEOTEXTILE LAYOUT:



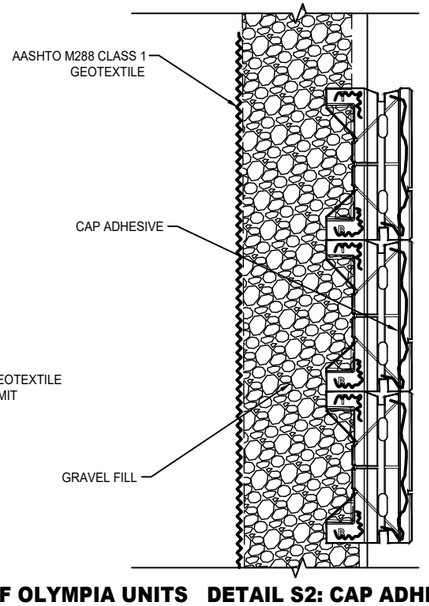




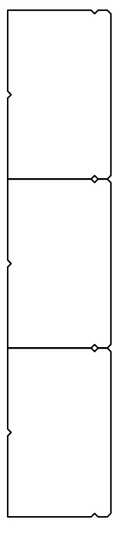




DETAIL S1: GEOTEXTILE ON TOP OF OLYMPIA UNITS
NOT TO SCALE



DETAIL S2: CAP ADHESIVE
NOT TO SCALE



DETAIL S3: CAP UNITS
NOT TO SCALE

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Alpharetta, Georgia 30009 | 770-344-2090

OLYMPIA® RETAINING WALL SYSTEMS

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CLIENT

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DESIGNED BY: ---
CHECKED BY : R. JOHNSON
ENGINEER OF RECORD (MSE STRUCTURE ONLY):
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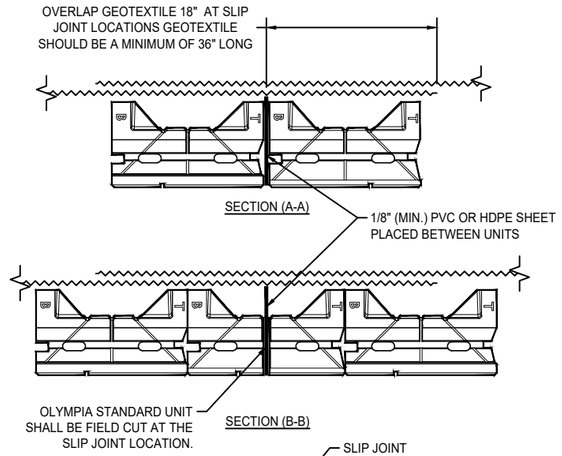
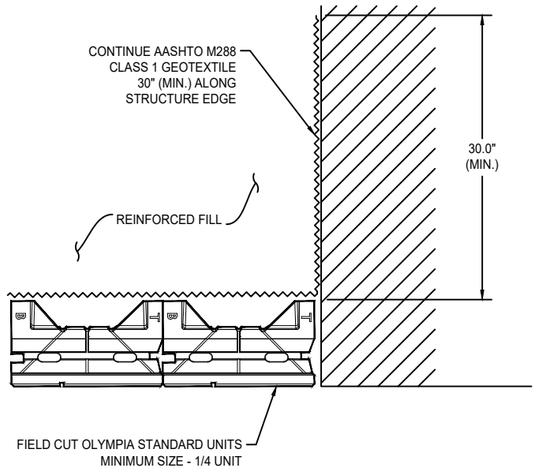


SLIP JOINT DETAIL

NOT TO SCALE

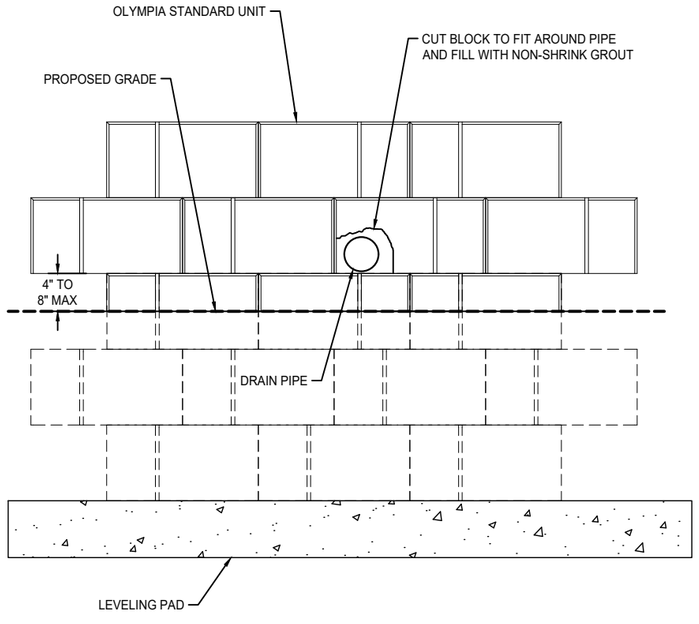


NOTES:

1. GEOGRID AND CONNECTORS NOT SHOWN FOR CLARITY.
2. FIELD CUT OLYMPIA STANDARD UNIT (MIN. 1/4 UNIT) FOR RUNNING BOND.
3. REFER TO TYPICAL CROSS-SECTION FOR FILL AND DRAINAGE REQUIREMENT AT BACK OF WALL.

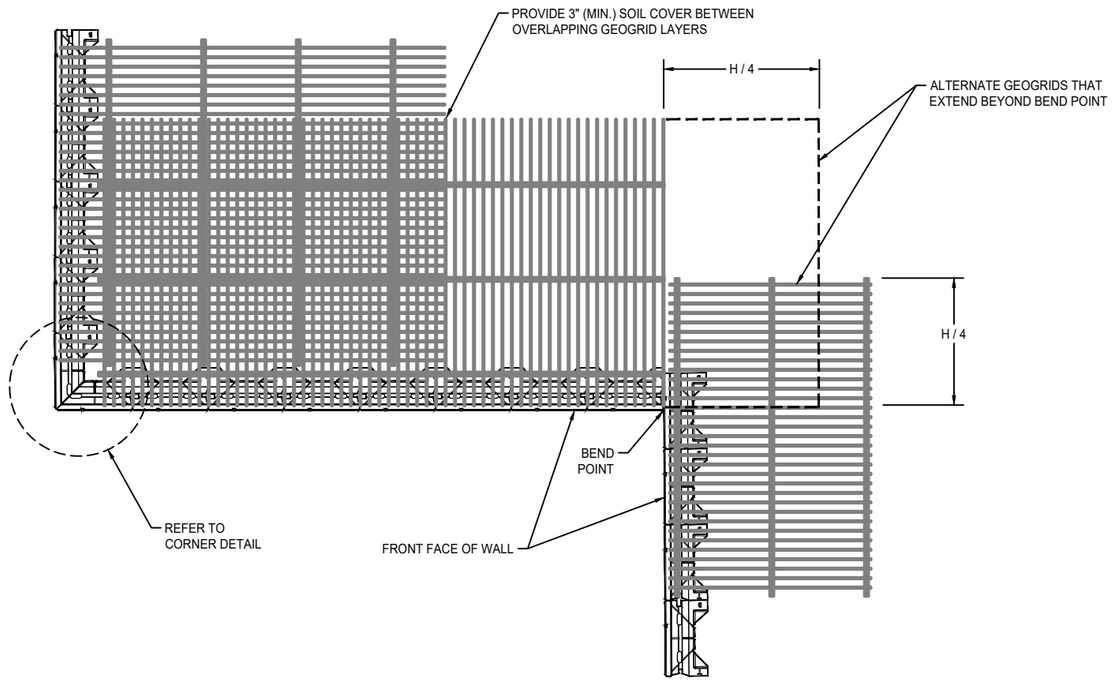
OLYMPIA WALL TRANSITION AT STRUCTURE

NOT TO SCALE



DRAIN PIPE OUTLET DETAIL

NOT TO SCALE



OLYMPIA WALL ALONG CORNERS DETAIL

NOT TO SCALE

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Alpharetta, Georgia 30009 | 770-344-2090

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Plotted on: February 1, 2018
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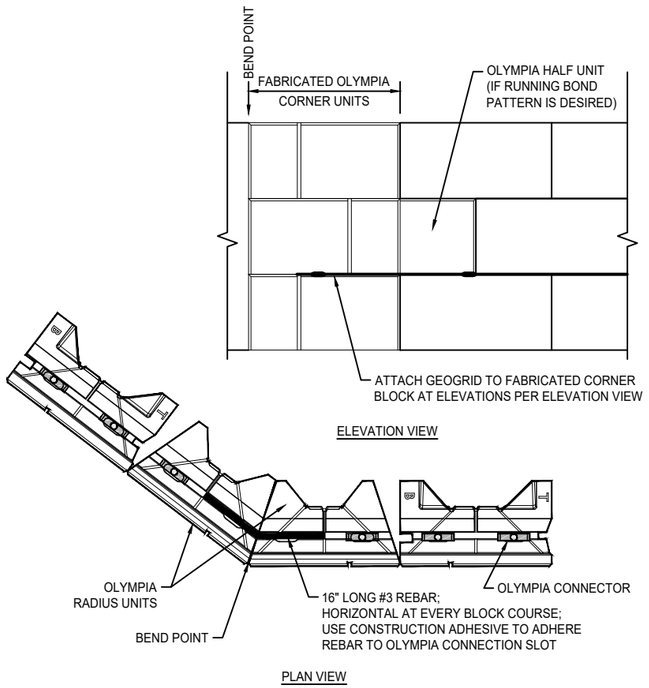
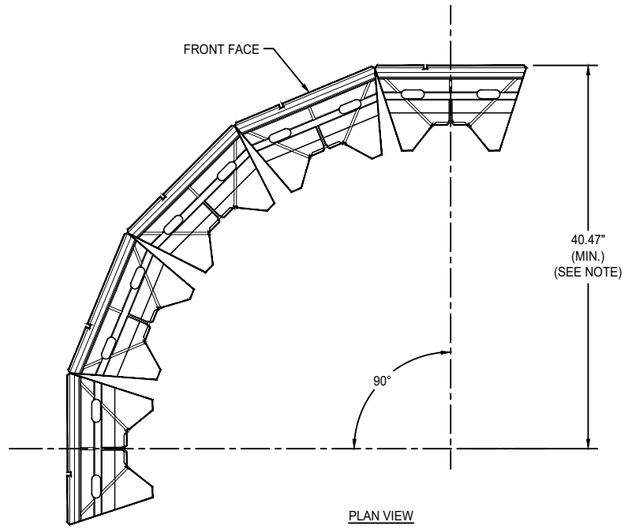


FABRICATED CORNER DETAIL (> 145°)

NOT TO SCALE

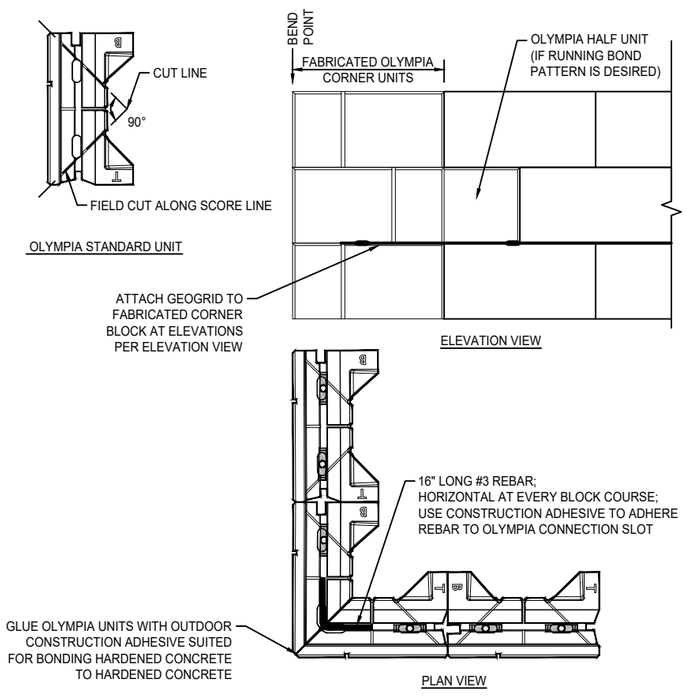


NOTE:

MINIMUM RADIUS SHOWN FOR TOP BLOCK COURSE. RADIUS FOR FIRST AND SUBSEQUENT BLOCK COURSES SHOULD BE CALCULATED AS A FUNCTION OF WALL HEIGHT AND BATTER.

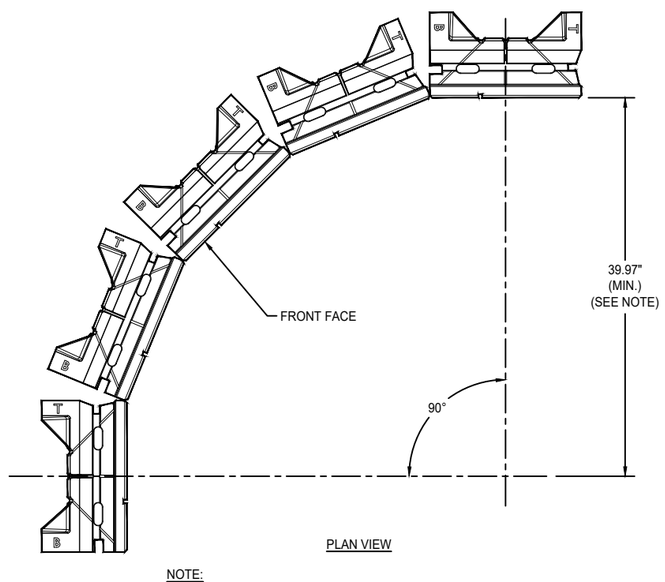
90° OUTSIDE CURVE DETAIL (OLYMPIA RADIUS UNIT)

NOT TO SCALE



FABRICATED CORNER DETAIL (90° TO 145°)

NOT TO SCALE



NOTE:

MINIMUM RADIUS SHOWN FOR BOTTOM BLOCK COURSE. RADIUS FOR SUBSEQUENT BLOCK COURSES SHOULD BE CALCULATED AS A FUNCTION OF WALL HEIGHT AND BATTER.

90° INSIDE CURVE DETAIL

NOT TO SCALE

Tensar.
Tensar International Corporation
2500 Northwinds Parkway | Suite 500
Alpharetta, Georgia 30009 | 770-344-2090

OLYMPIA® RETAINING WALL SYSTEMS

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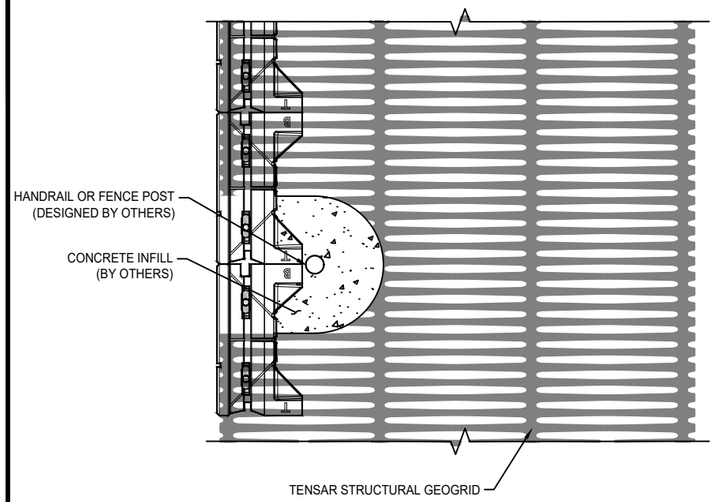
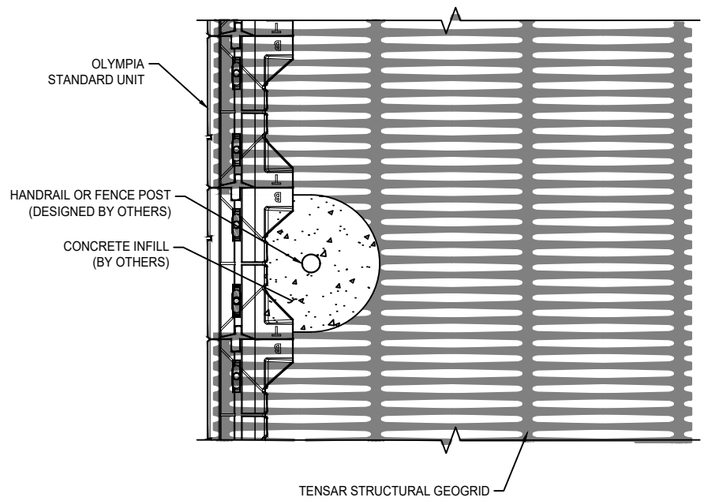


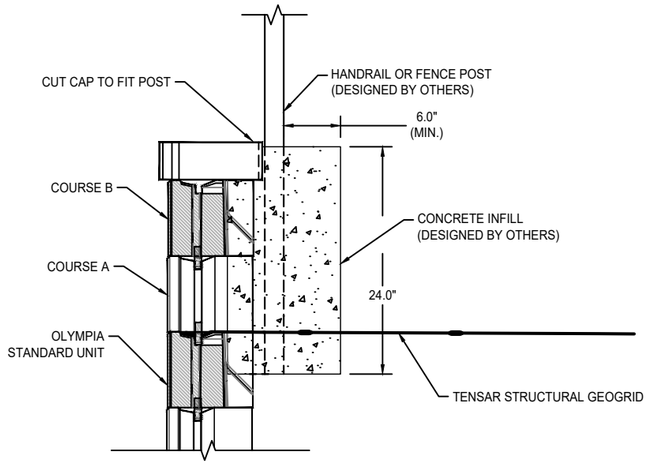
PLAN VIEW - COURSE A



PLAN VIEW - COURSE B

NOTES:

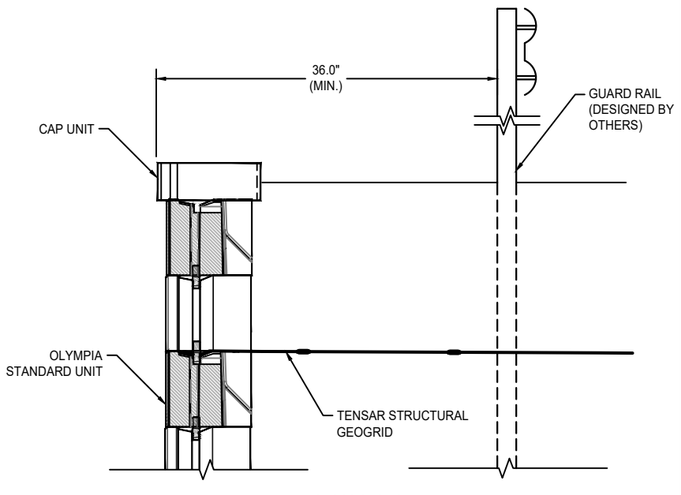
1. PLACE AND COMPACT FILL TO BOTTOM OF HANDRAIL OR POST.
2. PLACE TOP LAYER OF TENSAR STRUCTURAL GEOGRID AND REMAINING OLYMPIA STANDARD UNITS ABOVE IT.
3. CUT TENSAR STRUCTURAL GEOGRID AND THEN SET HANDRAIL OR FENCE POST.
4. FORM AND POUR CONCRETE INFILL AT TAIL OF OLYMPIA STANDARD UNITS.



CROSS SECTION

HANDRAIL OR FENCE POST ON TOP OF WALL

NOT TO SCALE



CROSS SECTION

NOTES:

1. PLACE AND COMPACT BACKFILL TO FINISH GRADE.
2. AUGER OR DRIVE POST THROUGH GEOGRID, AS REQUIRED, TO SPECIFIED DEPTH.
3. INSTALL POST AND FILL HOLE WITH 2000 PSI (MIN) CONCRETE, OR IN ACCORDANCE WITH PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

TOP OF WALL SECTION & GUARD RAIL DETAIL

NOT TO SCALE

Tensar.
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Alpharetta, Georgia 30009 | 770-344-2090

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STANDARD OLYMPIA DETAILS

SCALE: AS SHOWN

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