Standard Drawing Guidance (do not show on plans):

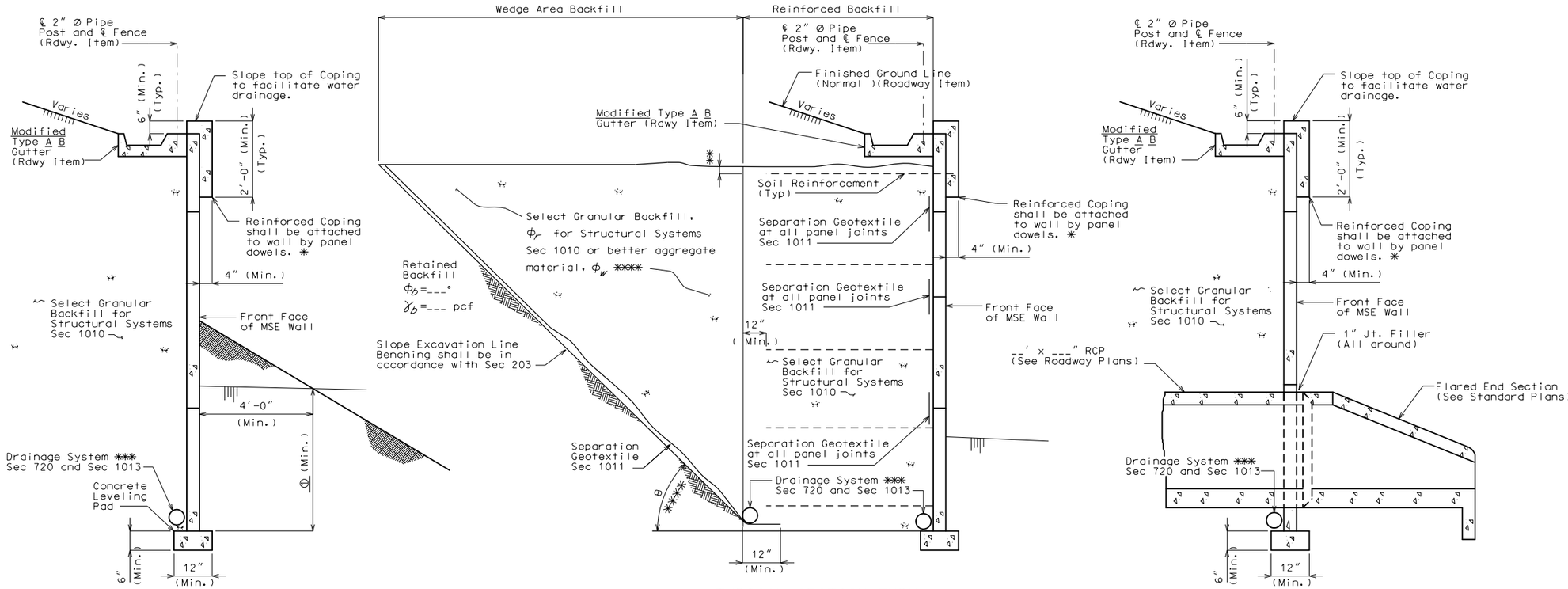
For Modified Type A and Type B Gutter and Fence Post Connection details, see Missouri Standard Plans No. 607.11.

For Type A & Type B Gutter information, see Missouri Standard Plans No. 609.00.

① Show the minimum embedment = maximum (2′, embedment based on Geotechnical Report and global stability requirements). Minimum embedment shall be provided in accordance with AASHTO 5.8.1 and Geotechnical Report.

All notes and details shown need to be revised per project.

MSE_Wall_02.dgn Effective: Dec. 2016 Supersedes: June 2015



TYPICAL SECTION THRU LARGE BLOCK WALL

TYPICAL SECTION THRU LARGE BLOCK WALL SHOWING FILTER CLOTH

TYPICAL SECTION THRU LARGE BLOCK WALL AT CULVERT

Vertical joint in MSE wall shall be located at each exterior culvert wall.

✱ Inverted U-shape reinforced capstone may be used in lieu of coping. Panel dowels for capstone shall be required and as provided by manufacturer.

✱✱ Topmost layer of reinforcement shall be fully covered with select granular backfill for structural systems, as approved by the wall manufacturer, before placement of the Separation Geotextile.

✱✱✱ Minimum 6″ diameter perforated PVC or PE pipe, unless larger size pipes are required by design by wall manufacturer.

Adjustment in the vertical alignment of the drainage pipes from that depicted in the plans may be necessary to ensure positive flow out of the drainage system.

Outlet ends of pipes shall be located to avoid clogging or flow into the drainage system.

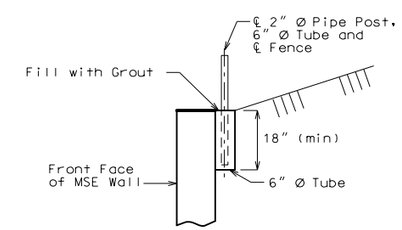
✱✱✱✱ Select granular backfill shall extend a minimum of 12″ beyond the end of all soil reinforcement. Where the angle, θ, between the retained backfill excavation/fill line and the horizontal is less than 90°, the wedge area backfill between θ and 90° shall be filled with select granular backfill for structural systems meeting the requirements of Section 1010.

- For $(45° + \phi_D/2) < \theta \leq 90°$, properties for retained backfill shall be used for active force computations.

- For $\theta \leq (45° + \phi_D/2)$, contractor shall have the option to use properties for select granular backfill, ϕ_r, or better aggregate material, ϕ_w for active force computations in the wedge area backfill. For active force computations, the angle of internal friction for wedge area backfill material, ϕ_r or ϕ_w, shall be limited to 34° unless determined otherwise in accordance with Section 1010. If ϕ_r or ϕ_w > 34° is desired for wedge area backfill then test report shall be submitted with manufacturer's design plans. ϕ_r or ϕ_w shall not be greater than 40°. Final configuration of this option shall be sent to Geotechnical Section for a new overall global stability analysis. Design ϕ_w shall be shown on manufacturer's plans if used.

The slope excavation line shall be benched and separation geotextile shall be placed between the retained backfill and either select granular backfill or better aggregate material, and between the select granular backfill and better aggregate material.

Show range of acceptable theta (θ) angle on shop drawings which must be consistent with design computations and proposed construction of wall. Coordination between wall designer (manufacturer) and contractor is required before shop drawing submittal.



FENCE POST CONNECTION BEHIND WALL (WITHOUT GUTTER)

DETAILS FOR GENERIC MSE WALL

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet No. of

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
12/6/2016	
ROUTE ✱	STATE MO
DISTRICT BR	SHEET NO. ✱
COUNTY ✱	
JOB NO. ✱	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. MSEW 2	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MSEW_02.dgn 10:13:41 AM 12/6/2016