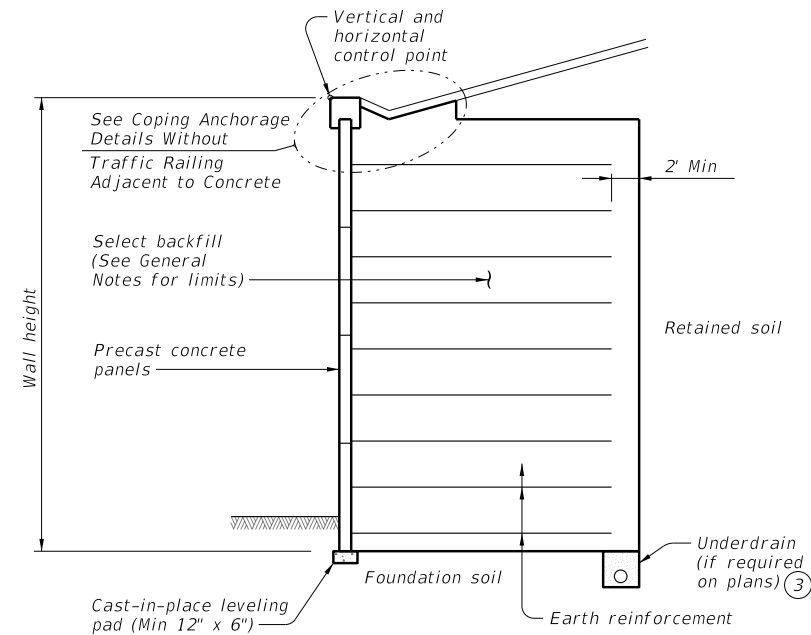
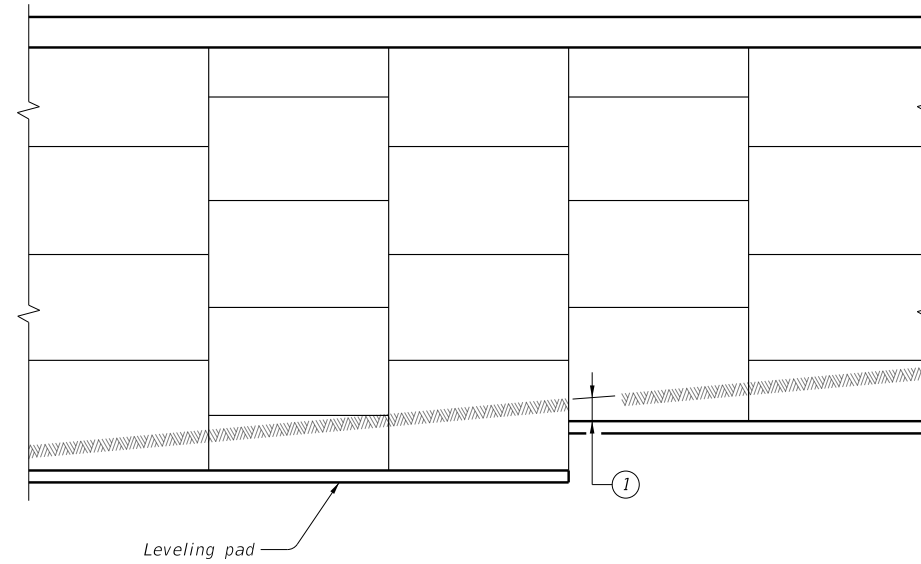


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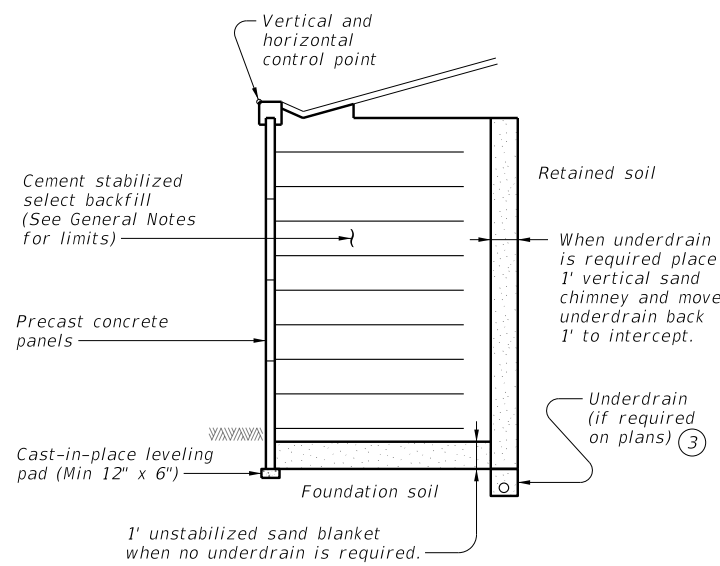


TYPICAL SECTION
(Wall at bottom of slope.)

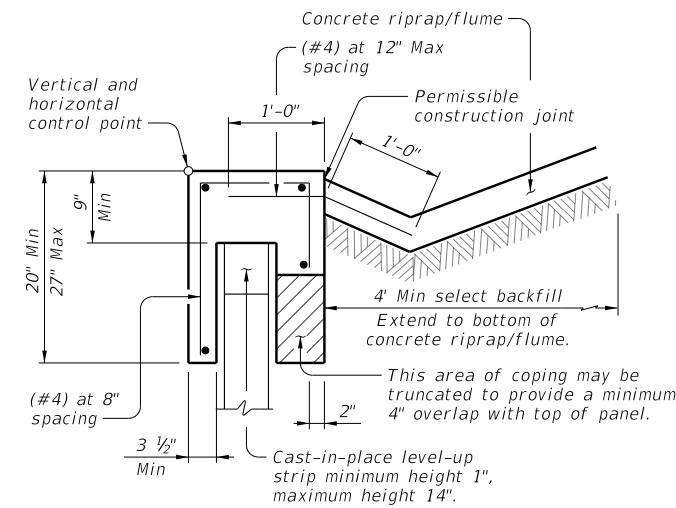


ELEVATION

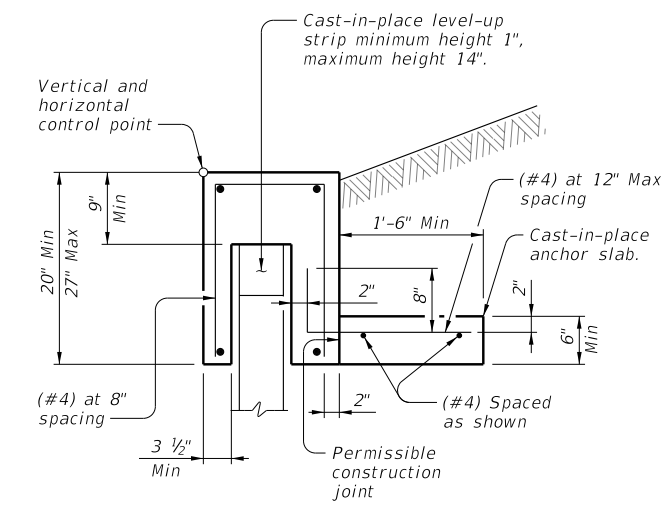
- ① Minimum embedment conforming to values given on the RW(MSE)DD standard.
- ② Form map of Texas emblem into a wall panel next to each bridge abutment. Submit the exact location of each emblem to the Engineer for approval. The cost of forming the emblems will not be paid for directly, but is subsidiary to Item 423, "Retaining Walls." Inset the map of Texas a minimum of 3/4" into the face of the panel with a smooth finish. Finish the inset area in a contrasting color as approved by the Engineer.
- ③ Provide underdrain pipe and filter material in accordance with Item 556, "Pipe Underdrains."
- ④ Anchor precast coping to prevent rotation or displacement. Use these details to develop custom anchorage for precast copings. Provide details that include coping reinforcement. Concrete flume (if required) is paid for separately from Item 423, "Retaining Walls."



SPECIAL DRAINAGE PROVISIONS
(When cement stabilized backfill is used.)

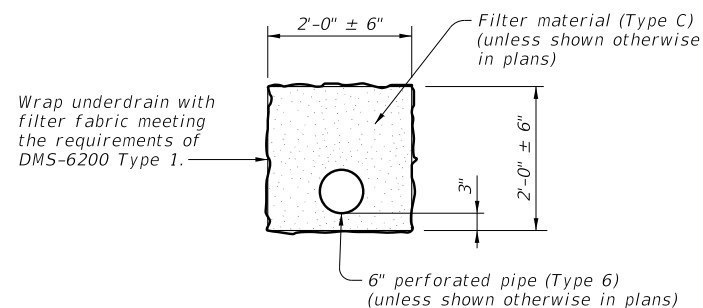


ADJACENT TO CONCRETE
(Excluding concrete pavement)

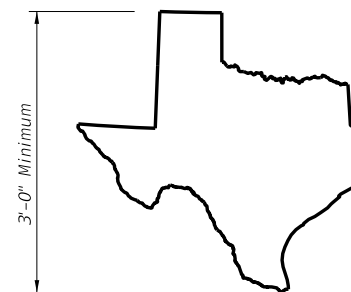


ADJACENT TO SOIL

COPING ANCHORAGE DETAILS WITHOUT TRAFFIC RAILING ④



UNDERDRAIN DETAIL ③



MAP OF TEXAS EMBLEM ②

MECHANICALLY STABILIZED EARTH RETAINING WALL

RW(MSE)

FILE: RW-MSE-22.dgn	DN: TxDOT	CK: TxDOT	DW: JER	CK: RLE
©TxDOT June 2022	CONT	SECT	JOB	HIGHWAY
REVISIONS				
DIST	COUNTY			SHEET NO.

DATE:
FILE:

5
6
7

SELECT BACKFILL UNIT WEIGHT			
Type	Unit Weight	Internal Stability	External Stability
AS, BS & DS	105 PCF	Pullout	Sliding, Overturning, Eccentricity
	125 PCF	Rupture	Bearing

PRECAST COPINGS:

JOINT SEALANT:

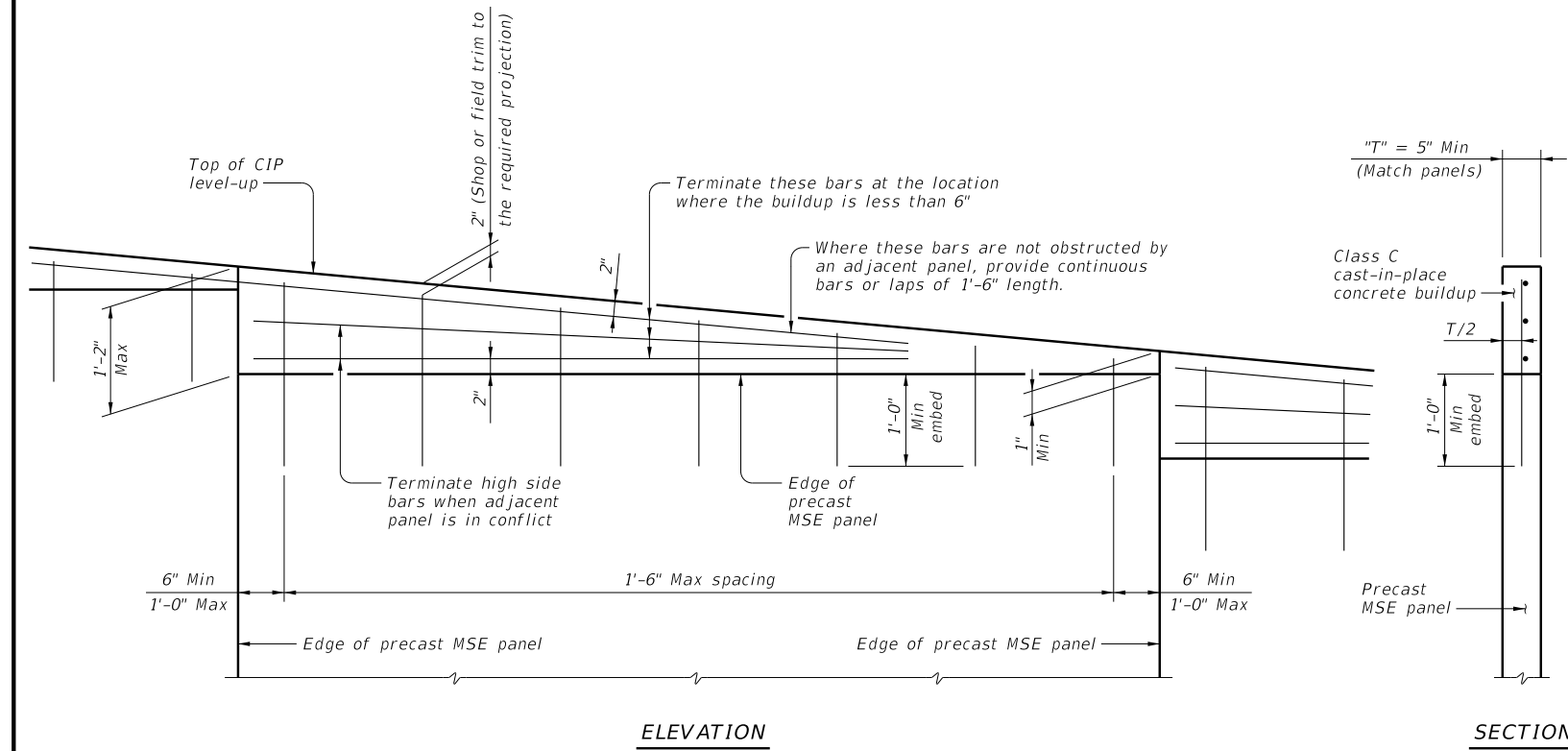
EARTH REINFORCEMENT:

PANELS:

MATERIAL NOTES:

them unless they are connected with galvanized hardware to adjacent panels which them and as approved by the Engineer.
Coping and anchor slabs are considered subsidiary to the Item 423, "Retaining Walls."
Use these details in conjunction with the retaining wall layout, the Mechanically Stabilized Earth Retaining Wall Design Data (RW[MSE]DD) standard and other applicable standards.

Cover dimensions are clear dimensions, unless noted otherwise.



ELEVATION

SECTION

LEVEL UP DETAIL 5

DESIGN CRITERIA NOTES:

Design Parameters:
Base design of retaining walls on the following design parameters unless stated elsewhere in the plans:

Retained Soil	Unit Weight = 125 pcf $\phi = 6^\circ$ C = 0 psf
Foundation Soil	$\phi = 6^\circ$ C = 0 psf
Select Backfill	Unit Weight = See Table 7 $\phi = 34^\circ$ C = 0 psf
Cement Stabilized Select Backfill	Unit Weight = 125 pcf $\phi = 45^\circ$ C = 0 psf

Limit stress in steel and concrete in accordance with current AASHTO Standard Specifications for Highway Bridges and Interim Specifications.
The minimum length of earth reinforcement are as shown on the Mechanically Stabilized Earth Retaining Wall Design Data (RW[MSE]DD) standard.

Stability Criteria:
Stability criteria applies to both dry and drawdown analysis. Base design on the following factors of safety.

Sliding along the base of the structure	Factor of Safety ≥ 1.5
Overturning	Factor of Safety ≥ 2.0
Pullout of Earth Reinforcement at each level	Factor of Safety ≥ 1.5

Design the wall such that the base pressure resultant falls within the middle third of the retaining wall.
Determine pullout resistance from test data evaluated at $\frac{3}{4}$ inch strain.

Corrosion Criteria:
Design the earth reinforcement elements to have a minimum design life of 75 years, using current AASHTO corrosion rates.
Perform stress calculations (rupture) on the calculated earth reinforcement section remaining after 75 years.
Pullout calculations may be based on non-corroded section.

DATE:
FILE:
