



NOTES:

FOR RETAINING WALLS -W3- AND -W4-.

AT THE CONTRACTOR'S OPTION, USE FINE AGGREGATE IN THE REINFORCED ZONE OF RETAINING WALLS -W3- AND -W4-. SUBMIT A SAMPLE OF THE SRW UNIT FOR THE RETAINING WALLS TO THE DIVISION ENGINEER FOR APPROVAL. USE SRW UNITS WITH A WHITE NEUTRAL CONCRETE COLOR FOR RETAINING WALLS -W3- AND -W4-. A SEPARATION GEOTEXTILE IS REQUIRED AT THE BACK OF THE REINFORCED ZONE FOR RETAINING WALLS -W3- AND -W4-.

A DRAIN IS REQUIRED FOR RETAINING WALLS -W3- AND -W4-.

BEFORE BEGINNING MSE WALL DESIGN FOR RETAINING WALLS -W3- AND -W4-, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

DESIGN RETAINING WALL -W3- FOR THE FOLLOWING: 1) H = DESIGN HEIGHT + EMBEDMENT

2) DESIGN LIFE = 75 YEARS

3) MAXIMUM FACTORED VERTICAL STRESS ON FOUNDATION MATERIAL = 2.000 LB/SF. THIS ASSUMES ANY FILL OR SOFT SOILS, IF ENCOUNTERED, WILL BE UNDERCUT AND REPLACED.

4) MINIMUM REINFÓRCEMENT LENGTH (L) = 0.8H OR 6 FT. WHICHEVER

IS LONGER 5) REINFORCED ZONE AGGREGATE PARAMETERS:

AGGREGATE TYPE	UNIT WEIGHT & LB/CF	FRICTION ANGLE Ø DEGREES	COHESION (c)LB/SF
COARSE	110	38	0
FINE	115	34	0

• SEE MSE RETAINING WALLS PROVISION FOR COARSE AND FINE AGGREGATE MATERIAL REQUIREMENTS. 6) IN-SITU ASSUMED MATERIAL PARAMETERS: 6) IN-SITU ASSUMED MATERIAL PARAMETERS:

MATERIAL TYPE	UNIT WEIGHT & LB/CF	FRICTION ANGLE	COHESION (c)LB/SF
BACKFILL	120	30	0
FOUNDATION	120	28	0

DESIGN RETAINING WALLS -W3- AND -W4- FOR A LIVE LOAD (TRAFFIC) SURCHARGE. IGNORE PASSIVE EARTH PRESSURE IN THE UPPER 18 INCHES OF RETAINING WALLS -W3- AND -W4-. DO NOT PLACE LEVELING PAD CONCRETE, AGGREGATE OR REINFORCEMENT FOR RETAINING WALLS -W3- AND -W4- UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

AT THE CONTRACTOR'S OPTION, "TEMPORARY SHORING FOR WALL CONSTRUCTION" MAY BE USED TO CONSTRUCT RETAINING WALLS -W3- AND -W4-. SEE MSE RETAINING WALLS PROVISION FOR TEMPORARY SHORING FOR WALL CONSTRUCTION. FOR PROPOSED FENCE DETAILS, SEE SPECIAL PROVISION.

FOUNDATIONS FOR FENCE POSTS WILL BE LOCATED BEHIND RETAINING WALLS -W3- AND -W4- AND WILL INTERFERE WITH REINFORCEMENT. BEFORE BEGINNING MSE WALL CONSTRUCTION, SUBMIT PROPOSED CONSTRUCTION METHODS FOR THESE FOUNDATIONS FOR APPROVAL.

DESIGN RETAINING WALL -W4- FOR THE FOLLOWING:

- 1) H = DESIGN HEIGHT + EMBEDMENT 2) DESIGN LIFE = 75 YEARS
- 3) MAXIMUM FACTORED VERTICAL STRESS ON FOUNDATION MATERIAL = 2.000 LB/SF. THIS ASSUMES ANY FILL OR SOFT SOILS,

IF ENCOUNTERED, WILL BE UNDERCUT AND REPLACED. 4) MINIMUM REINFÓRCEMENT LENGTH (L) = 0.9H OR 6 FT. WHICHEVER IS LONGER

5) REINFORCED ZONE AGGREGATE PARAMETERS:

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	AGGREGATE TYPE●	UNIT WEIGHT & LB/CF	FRICTION ANGLE	COHESION (c)LB/SF
l	COARSE	110	38	0
ſ	FINE	115	34	0

MATERIAL TYPE	UNIT WEIGHT & LB/CF	FRICTION ANGLE	COHESION (c)LB/SF
BACKFILL	120	30	0
FOUNDATION	110	26	0