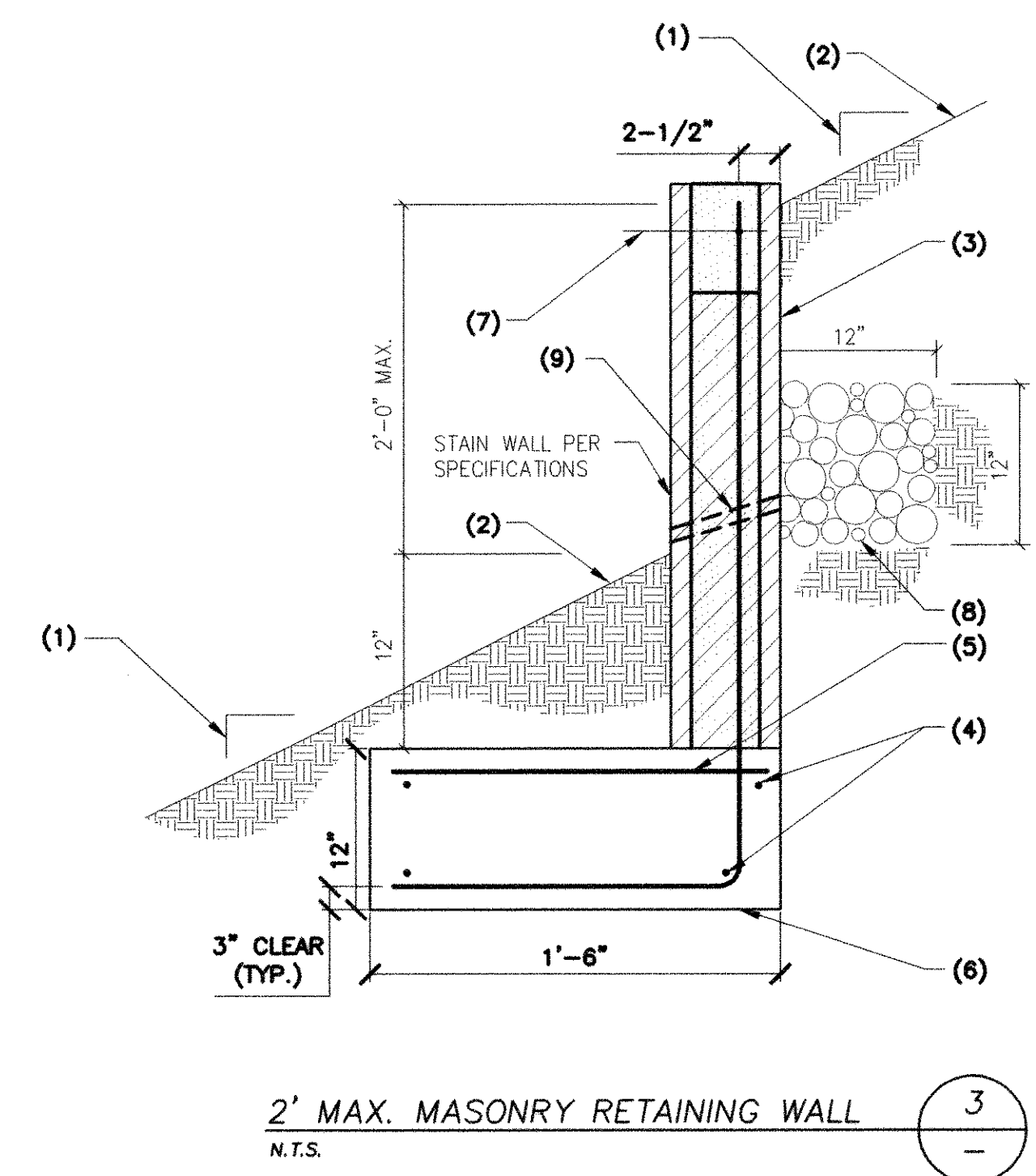


MASONRY RETAINING WALL
N.T.S. (1)

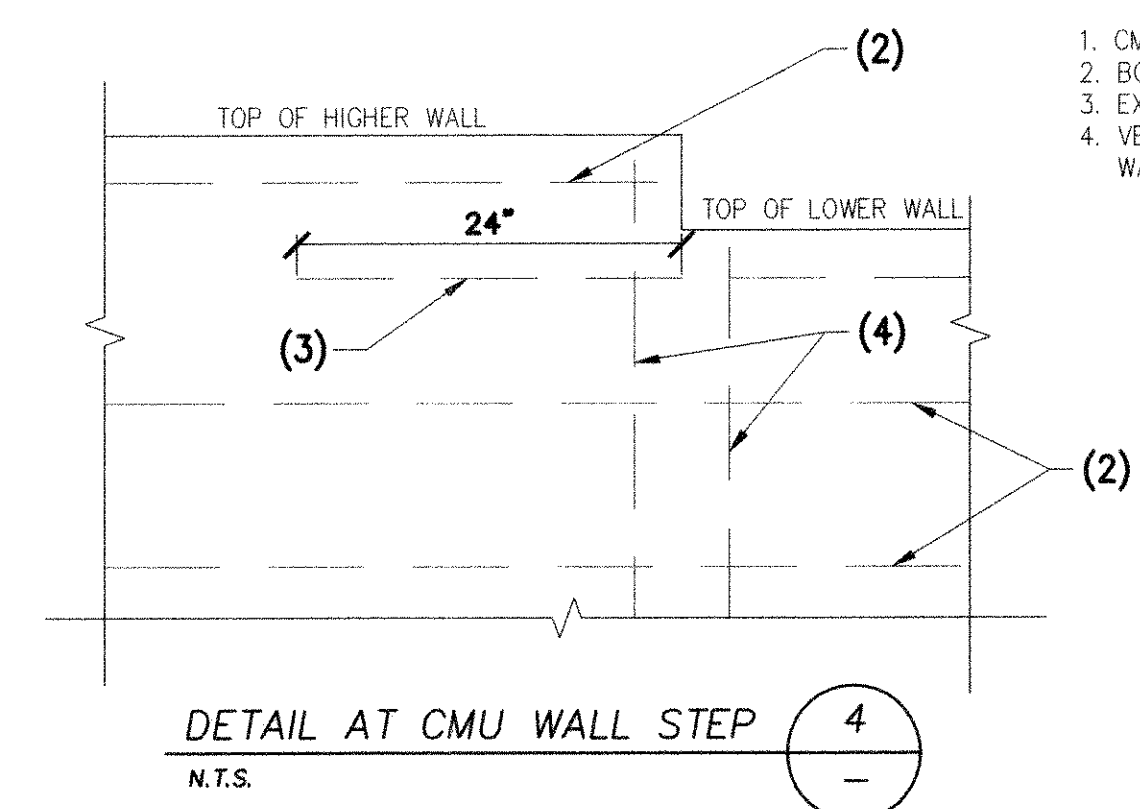
- NOTES:
1. FINISHED GRADE, MAX. SLOPE 2H:1V (1.5H:1V RET. WALL TYPE II)
 2. 1 #5 CONTINUOUS IN A BOND BEAM PER G.S.N.
 3. CMU WALL. SEE SCHEDULE FOR THICKNESS
 4. 2'-4\" DIA. ROCK POCKET.
 5. VERTICAL REINFORCING IN FIRST LIFT SOIL SIDE, ALTERNATE BENDS IN FOOTING
 6. VERTICAL REINFORCING IN SECOND LIFT SOIL SIDE, ALTERNATE BENDS IN FOOTING
 7. LAP 50 BAR DIAMETER.
 8. TOE
 9. HEEL
 10. CONCRETE FOOTING
 11. FOOTING THICKNESS
 12. FIRST LIFT
 13. SECOND LIFT AND RETAINING HEIGHT
 14. LONGITUDINAL REINFORCING (CONTINUOUS) IN FOOTING
 15. TRANSVERSE REINFORCING IN FOOTING
 16. 1\" DIA. WEEP HOLES AT 24\" O.C.
 17. DEPTH OF SHEAR KEY
 18. WIDTH OF SHEAR KEY
 19. 1 #4 CONTINUOUS PER 9\" WIDTH OF SHEAR KEY
 20. 2 #4 CONTINUOUS PER 12\" WIDTH OF SHEAR KEY
 21. 3 #4 CONTINUOUS PER 24\" WIDTH OF SHEAR KEY

NOTE
SEE MASONRY RETAINING WALL SCHEDULE



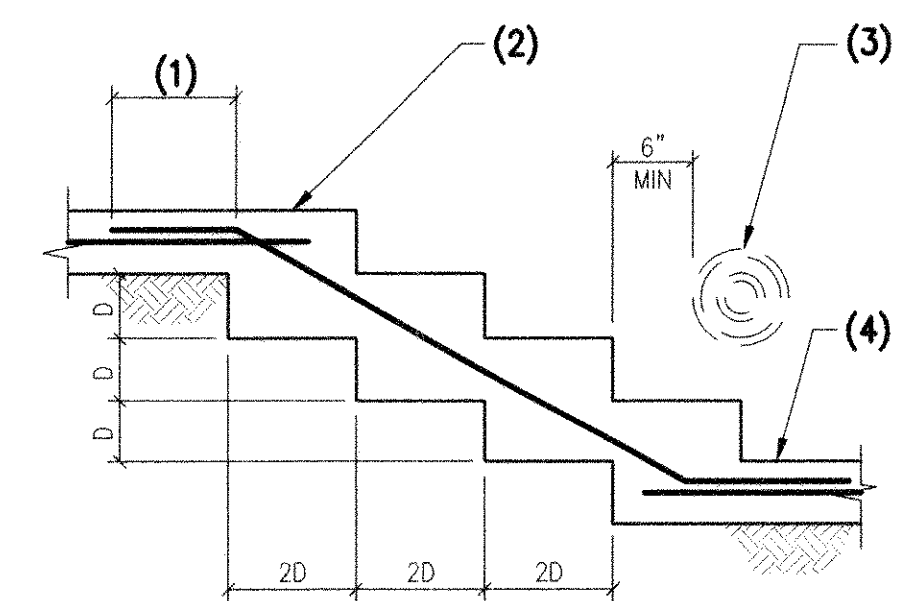
2' MAX. MASONRY RETAINING WALL
N.T.S. (3)

- NOTES:
1. 2H:1V (SLOPE MAX.)
 2. FINISHED GRADE.
 3. 8\" MASONRY WALL - SOLID GROUTED WITH #4 AT 48\" O.C.
 4. 2 #4 LONGITUDINAL (TOP AND BOTTOM)
 5. #4 AT 12\" O.C. TRANSVERSE CONCRETE FOOTING.
 6. 1 #5 CONTINUOUS IN A BOND BEAM PER G.S.N.
 7. 2'-4\" DIA. ROCK POCKET.
 8. 1\" DIA. WEEP HOLES AT 24\" O.C.



DETAIL AT CMU WALL STEP
N.T.S. (4)

- NOTES:
1. CMU RETAINING WALL
 2. BOND BEAM REINF. PER G.S.N.
 3. EXTEND TOP BOND BEAM REINF.
 4. VERTICAL REINFORCING OF WALL



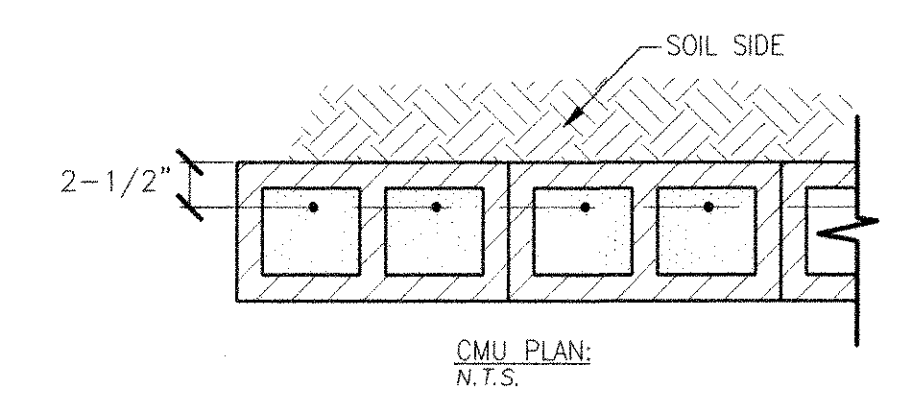
TYPICAL STEP IN CONCRETE FOOTING
N.T.S. (5)

- NOTES:
1. LAP PER G.S.N. (24\" MIN.) - TYPICAL.
 2. TOP OF WALL FOOTING.
 3. PIPE THRU STEM WALL AS OCCURS - SEE TYPICAL DETAIL.
 4. RETURN TO FOOTING THICKNESS AS SHOWN ON PLAN.

NOTE:
D = 2'-0\" MAXIMUM.

WALL HEIGHT UNDER RETAINING CONDITIONS	SOLID GROUTED WALL THICKNESS	1ST LIFT	2ND LIFT	VERTICAL REINFORCING		HEEL	TOE	FOOTING THICKNESS	FOOTING REINFORCING		SHEAR KEY	
				1ST LIFT	2ND LIFT				LONGITUDINAL	TRANSVERSE	Sd	Sw
2'-1" TO 4'-0"	8" (CMU)	1'-0"	4'-0"	#5 @ 32" O.C. (SOIL SIDE)	#5 @ 32" O.C. (SOIL SIDE)	1'-9"	2'-2"	12"	(3) #4 TOP AND BOTTOM	#4 @ 16" O.C. AT TOP	---	---
4'-1" TO 6'-0"	8" (CMU)	2'-0"	6'-0"	#5 @ 8" O.C. (SOIL SIDE)	#5 @ 24" O.C. (SOIL SIDE)	1'-6"	3'-2"	12"	(4) #4 TOP AND BOTTOM	#4 @ 12" O.C. AT TOP	3"	8"
6'-1" TO 7'-0"	8" (CMU)	2'-0"	7'-0"	#5 @ 8" O.C. (SOIL SIDE)	#5 @ 24" O.C. (SOIL SIDE)	2'-0"	3'-0"	12"	(4) #4 TOP AND BOTTOM	#4 @ 12" O.C. AT TOP	3"	8"
7'-1" TO 8'-0"	12" (CMU)	2'-0"	8'-0"	#5 @ 8" O.C. (SOIL SIDE)	#5 @ 16" O.C. (SOIL SIDE)	2'-6"	3'-6"	12"	(5) #4 TOP AND BOTTOM	#4 @ 12" O.C. AT TOP	10"	12"
8'-1" TO 9'-0"	12" (CMU)	2'-6"	9'-0"	#5 @ 8" O.C. (SOIL SIDE)	#5 @ 8" O.C. (SOIL SIDE)	2'-6"	4'-9"	14"	(6) #4 TOP AND BOTTOM	#4 @ 12" O.C. AT TOP	12"	12"
9'-1" TO 10'-0"	12" (CMU)	2'-6"	10'-0"	#6 @ 8" O.C. (SOIL SIDE)	#6 @ 8" O.C. (SOIL SIDE)	3'-0"	5'-0"	15"	(7) #4 TOP AND BOTTOM	#4 @ 12" O.C. AT TOP	12"	26"
MASONRY RETAINING WALL SCHEDULE /RET. WALL TYPE II (SEE GRADING PLAN)												
7'-1" TO 8'-0"	12" (CMU)	2'-0"	8'-0"	#5 @ 8" O.C. (SOIL SIDE)	#5 @ 16" O.C. (SOIL SIDE)	4'-6"	2'-9"	12"	(6) #4 TOP AND BOTTOM	#4 @ 12" O.C. AT TOP	10"	12"
8'-1" TO 9'-0"	12" (CMU)	2'-6"	9'-0"	#5 @ 8" O.C. (SOIL SIDE)	#5 @ 8" O.C. (SOIL SIDE)	5'-6"	3'-9"	14"	(8) #4 TOP AND BOTTOM	#4 @ 12" O.C. AT TOP	12"	12"
9'-1" TO 10'-0"	12" (CMU)	2'-6"	10'-0"	#6 @ 8" O.C. (SOIL SIDE)	#6 @ 8" O.C. (SOIL SIDE)	6'-0"	4'-0"	15"	(9) #4 TOP AND BOTTOM	#4 @ 12" O.C. AT TOP	12"	21"

MASONRY RETAINING WALL SCHEDULE
N.T.S. (2)



CMU PLAN
N.T.S. (2)

 2151 EAST BROADWAY ROAD, SUITE 217, TEMPE, AZ 85282 VOICE: 480.905.8669 FAX: 480.905.8818	CITY OF MESA ENGINEERING DIVISION	
	THOMPSON PEAK COMMUNICATION TOWER	
DRAWN BY: BGH ENGINEER: SAM APPROVED BY: F RUSTAM	RETAINING WALL DETAILS 10	DRAWING
340 W.O. 4399 PROJ. NO. 02-410-001	10 OF 33	CATALOG NUMBER: A-139265