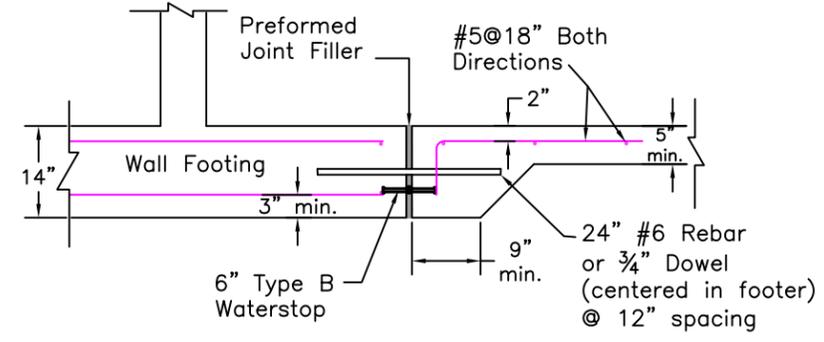


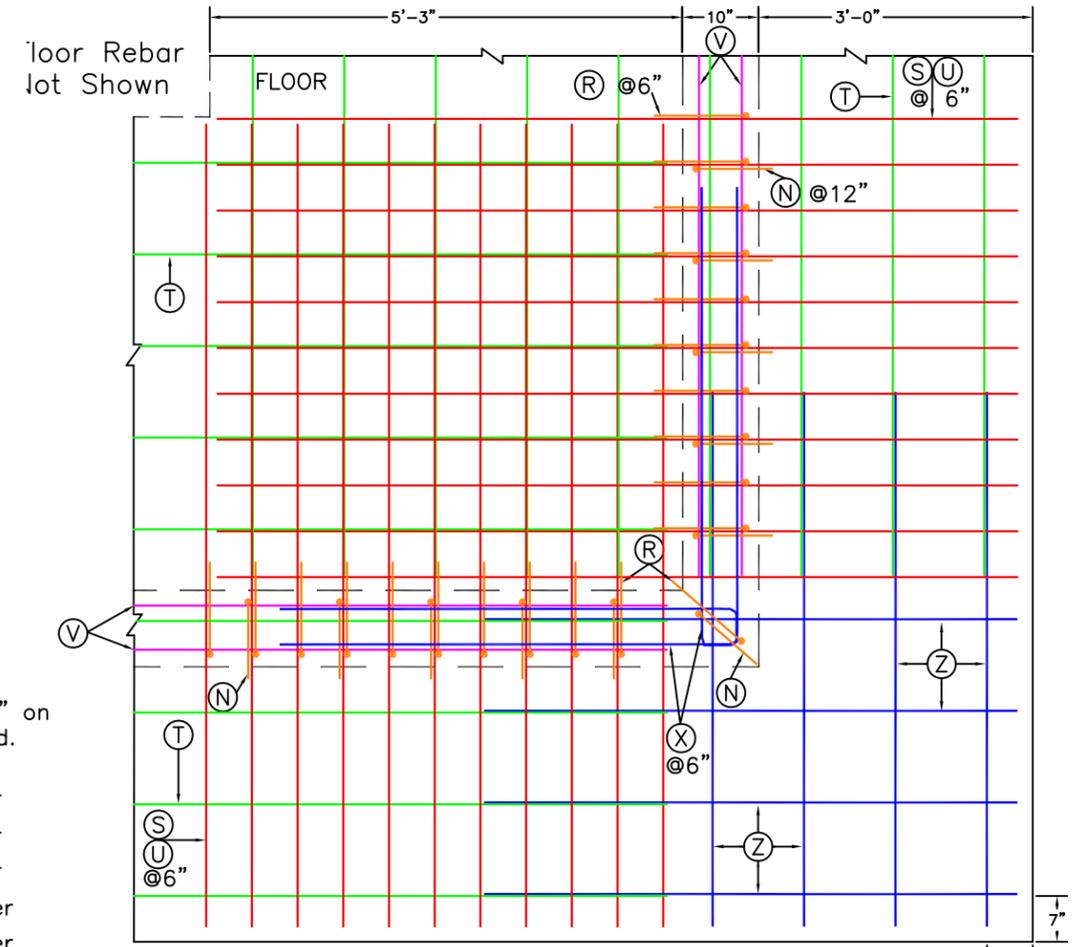
SECTION
SCALE 3/8" = 1'



OPTIONAL FLOOR DETAIL
NOT TO SCALE

NOTE: All bars spaced 12" on center except where noted.

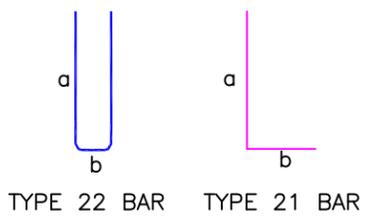
- (N) - 1 bar per corner
- (P) - 1 bar per corner
- (R) - 1 bar per corner
- (Z) - 16 bars per corner
- (X) - 38 bars per corner



CORNER DETAIL (PLAN VIEW)
SCALE 1/2" = 1'

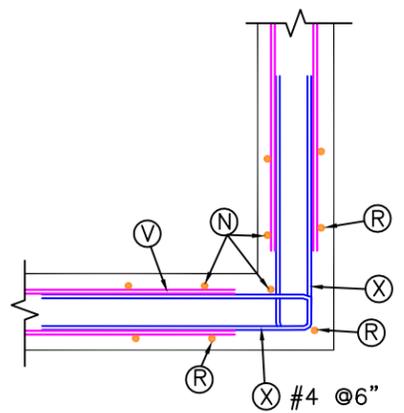
STEEL SCHEDULE

MARK	SIZE	QUANTITY	TYPE	a	b	LENGTH	TOTAL LENGTH
N	5		21	10'-9"	0'-10"	11'-7"	
P	4		Straight	-	-	5'-0"	
R	6		21	7'-5"	1'-0"	8'-5"	
S	5		Straight	-	-	8'-9"	
T	4		Straight	-	-	8'-9"	
U	5		Straight	-	-	8'-9"	
V	5		Straight	-	-	8'-9"	
X	4		22	5'-0"	0'-4"	10'-4"	
Z	4		Straight	-	-	5'-6"	



MINIMUM LAP SPLICE
 #4 bars = 1'-8"
 #5 bars = 2'-1"
 #6 bars = 2'-6"

CONSTRUCTION JOINT DETAIL
NOT TO SCALE



WALL CORNER DETAIL
NOT TO SCALE

WALL DESIGN LOADING

- * MANURE LOADING = 65 pcf
- * BACKFILL: GRANULAR, NON-COESIVE
- * DENSITY = 120 pcf; $\phi = 30^\circ$
- * SURCHARGE = 2' OF BACKFILL EQUIVALENT (120 psf EFP REPRESENTING MACHINERY LOAD ON SOIL)

CONSTRUCTION

- * CONTRACTION JOINTS SHALL BE PLACED IN WALLS AT A MAXIMUM SPACING OF 150'.
- * EXPANSION JOINTS IN THE FLOOR SLABS SHALL BE A MAXIMUM OF 80', THE SUBBASE MATERIAL UNDER THE SLAB SHALL BE SAND, OR AT LEAST 2" OF SAND OVER CRUSHED STONE OR GRAVEL. SEE PROJECT DRAWINGS AND SPECS FOR ADDITIONAL SUBBASE REQUIREMENTS.
- * UNLESS OTHERWISE SHOWN, PROVIDE A MINIMUM OF 2" OF CONCRETE COVER OVER ALL STEEL.
- * ALL CONTRACTION AND EXPANSION JOINTS SHALL HAVE TYPE B WATERSTOPS.
- * DRAINAGE SHALL BE DIRECTED AWAY FROM THE WALL.
- * THE TOP WIDTH OF THE BACKFILL AROUND THE WALL SHALL BE AT LEAST 2 TIMES THE BACKFILL HEIGHT.

CONDITIONS OF USE

- * STANDARD DRAWING - DESIGNER MUST ENSURE THE APPLICATION OF THIS DRAWING MEETS THE ASSUMPTIONS OF THE DESIGN AS STATED.
- * BACKFILL HEIGHT = 8' TO 10'.
- * SOIL BACKFILL SHALL BE PLACED TO A MINIMUM DEPTH OF 8' BEFORE THE AREA IS USED FOR STORAGE.
- * FOOTING MUST BE RESTRAINED WITH A FLOOR SLAB.
- * DRAINAGE CONDITION: FULL DRAINAGE, EITHER BY COARSE WELL DRAINED BACKFILL OR A DRAINAGE SYSTEM.
- * MINIMUM SUBGRADE BEARING CAPACITY = 2,000 psf
- * CONCRETE STRENGTH = 4,000 psi REBAR = GRADE 60

#4 BARS, TOTAL LENGTH = _____ X 0.668 LBS/FT. = _____ LBS
 #5 BARS, TOTAL LENGTH = _____ X 1.043 LBS/FT. = _____ LBS
 #6 BARS, TOTAL LENGTH = _____ X 1.502 LBS/FT. = _____ LBS
 TOTAL REBAR = _____ LBS
 CONCRETE = 0.701 CY/FT. OF WALL LENGTH ESTIMATED TOTAL = _____ CY

WASTE STORAGE FACILITY	
10' HIGH "TEE" WALL	
FULL BACKFILL (8'-0" TO 10'-0")	
STANDARD DWG. NO. MA-WSF-09	
DATE Sept. 2009	SHEET 1 OF 1

Date _____
 Designed _____
 Drawn _____
 Checked _____
 Approved _____

STANDARD DRAWING
 10' HIGH "TEE" WALL
 FULL BACKFILL (8'-0" TO 10'-0")
 WASTE STORAGE FACILITY

United States Department of Agriculture
 Natural Resources Conservation Service

Project Name _____
 Drawing Name MA-WSF-09
 Sheet _____ of _____