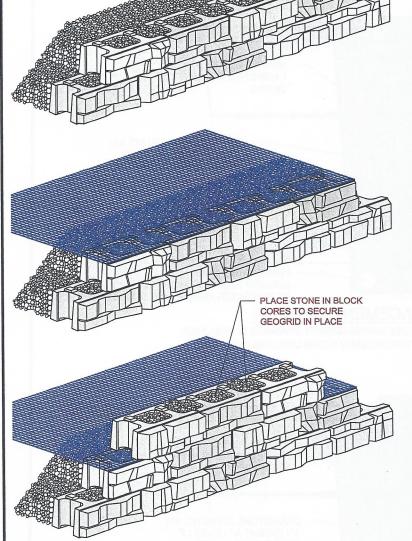
# TYPICAL CONSTRUCTION DETAILS

TYPICAL CONSTRUCTION DETAILS



### STEP 1

- · PLACE BLOCKS.
- PLACE AND COMPACT STONE IN THE BLOCK CORES AND BEHIND THE WALL. PLACE AND COMPACT BACKFILL BEHIND THE STONE.
- STONE AND BACKFILL SHALL BE PLACED AND COMPACTED TO THE ELEVATIONS SHOWN IN THE DESIGN. DO NOT PLACE GEOGRID IF THERE ARE PARTIALLY FILLED BLOCK CORES OR DROPS IN THE GRADE IMMEDIATELY BEHIND THE RETAINING BLOCKS.

### STEP 2

- PLACE GEOGRID OVER THE BLOCKS AND EXTEND TO THE FRONT PART OF THE BLOCK WHERE THE FACE TEXTURE BEGINGS.
- THE GEOGRID SHALL LAY FLAT OR SLIGHTLY SLOPING DOWNWARD AWAY FROM THE WALL FACE AND PULLED TAUT TO REMOVE ANY SLACK.
- THE GEOGRID SHALL BE HELD IN PLACE WITH PINS OR OTHER METHODS RECOMMENDED BY THE GEOGRID MANUFACTURER.

### STEP 3

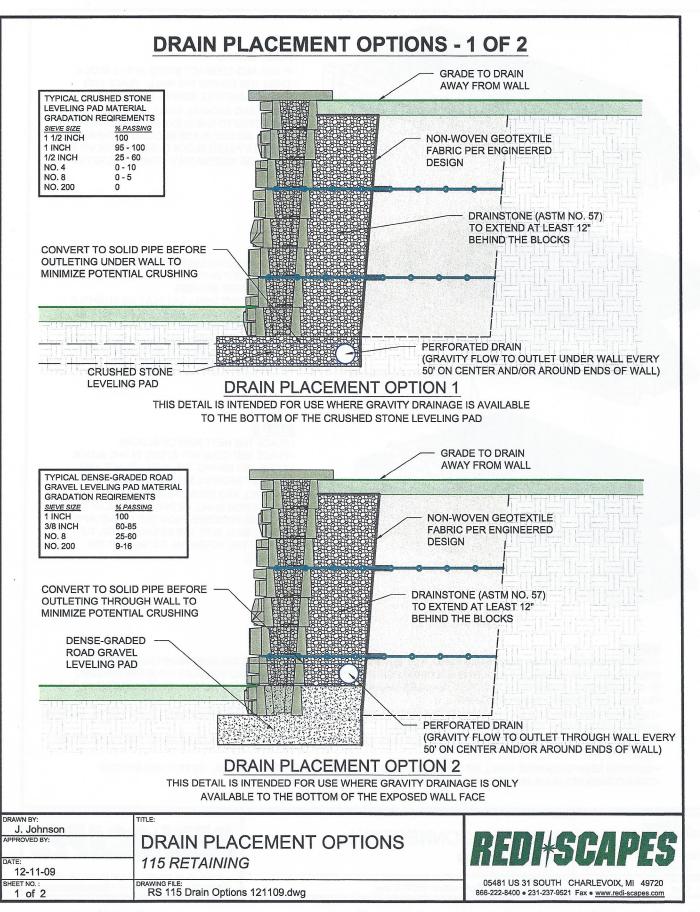
- PLACE THE NEXT ROW OF BLOCKS.
- PLACE AND COMPACT STONE IN THE BLOCK CORES AND BEHIND THE WALL. PLACE AND COMPACT BACKFILL BEHIND THE STONE.
- BACKFILL AND STONE PLACEMENT AND COMPACTION SHALL BE PERPENDICULAR TO THE WALL AND PROCEED FROM THE REDI-SCAPE BLOCKS BACK INTO THE RETAINED SOIL TO MINIMIZE THE POTENTIAL TO "BUNCH" THE GEOGRID.

### **NOTES**

- TRACKED CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED DIRECTLY ON THE GEOGRID REINFORCEMENT. A MINIMUM FILL THICKNESS OF 6 INCHES IS REQUIRED FOR THE OPERATION OF TRACKED VEHICLES OVER THE GEOGRID REINFORCEMENT. TURNING OF TRACKED VEHICLES SHOULD BE KEPT TO A MINIMUM TO PREVENT DISPLACEMENT OF THE FILL AND THE GEOGRID REINFORCEMENT.
- RUBBER-TIRED VEHICLES MAY PASS OVER THE GEOGRID REINFORCEMENT AT A SLOW SPEED (LESS THAN 5 MPH). SUDDEN BREAKING AND SHARP TURNING SHOULD BE AVOIDED.
- GEOGRID REINFORCEMENT MUST BE ROLLED OUT WITH THE MACHINE DIRECTION PERPENDICULAR TO THE FACE OF THE WALL.
- GEOGRID REINFORCEMENT SHALL BE CONTINUOUS PERPENDICULAR TO THE WALL FACE. DO NOT USE SPLICED CONNECTIONS BETWEEN SHORTER PIECES OF GEOGRID REINFORCEMENT.

DRAWN BY: J. Johnson	TITLE:	
APPROVED BY:	GEOGRID CONNECTION	
DATE: 01-07-10	115 RETAINING	
SHEET NO.: 1 of 1	DRAWING FILE: RS 115 Geogrid Connection 010710.dwg	

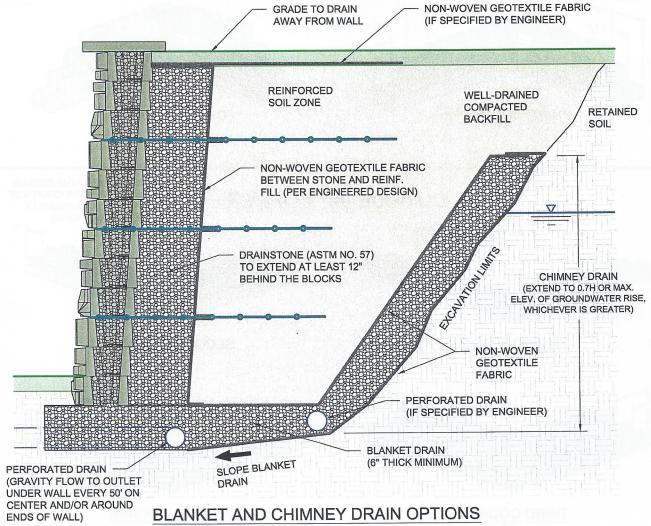




### **DRAIN PLACEMENT OPTIONS - 2 OF 2**

### **DRAIN PLACEMENT NOTES:**

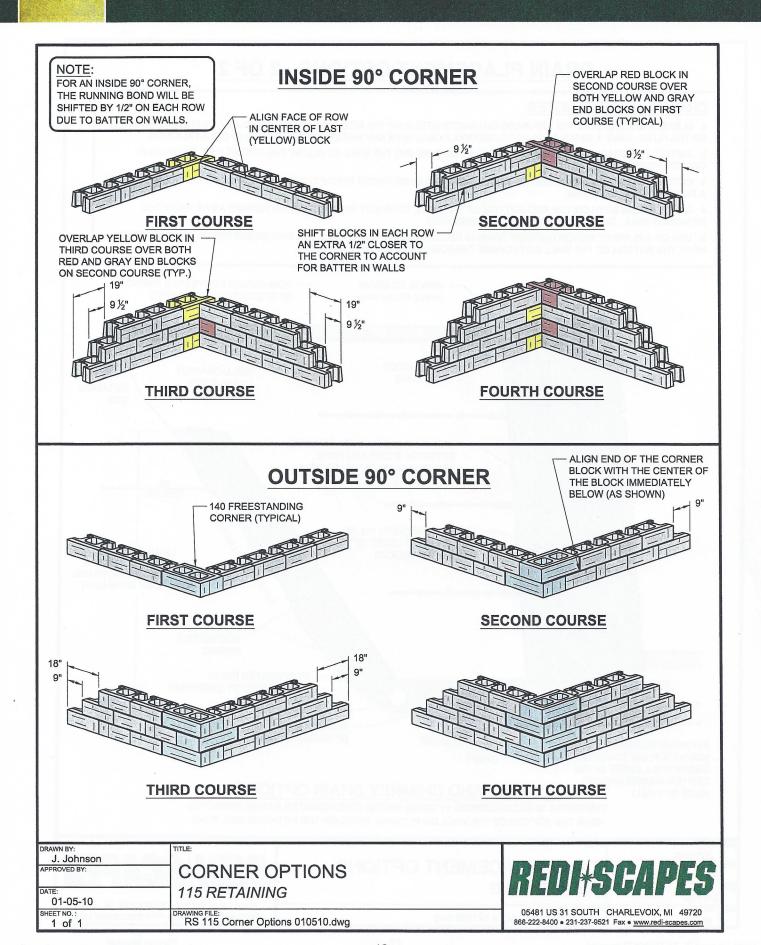
- 1. CLEARLY UNDERSTAND THE DRAINAGE CHARACTERISTICS OF THE SITE, INCLUDING BOTH SURFACE AND SUBSURFACE WATER FLOW. HAVE A DETAILED PLAN TO PROPERLY DEAL WITH ANY WATER BEFORE STARTING CONSTRUCTION.
- 2. INSTALL THE DRAIN IN THE LOWEST POSSIBLE POINT BEHIND THE WALL TO ALLOW THE OUTLET PIPE TO DRAIN BY GRAVITY TO DAYLIGHT.
- 3. OUTLET TO A STORM DRAIN SYSTEM SHOULD ONLY BE MADE UNDER SPECIFIC DESIGN, OVERSIGHT, AND DIRECTION BY A PROFESSIONAL ENGINEER.
- 4. GRADE AREAS BOTH ON TOP AND BOTTOM OF THE WALL TO DIRECT SURFACE WATER RUNOFF AWAY FROM THE RETAINING WALL. DRAINAGE SWALES MAY BE REQUIRED.
- 5. USE OF A BLANKET AND/OR CHIMNEY DRAIN IS RECOMMENDED IN AREAS WHERE GROUNDWATER CAN BE EXPECTED NEAR THE BOTTOM OF THE WALL OR FLOWING THROUGH THE RETAINED SOIL ZONE.



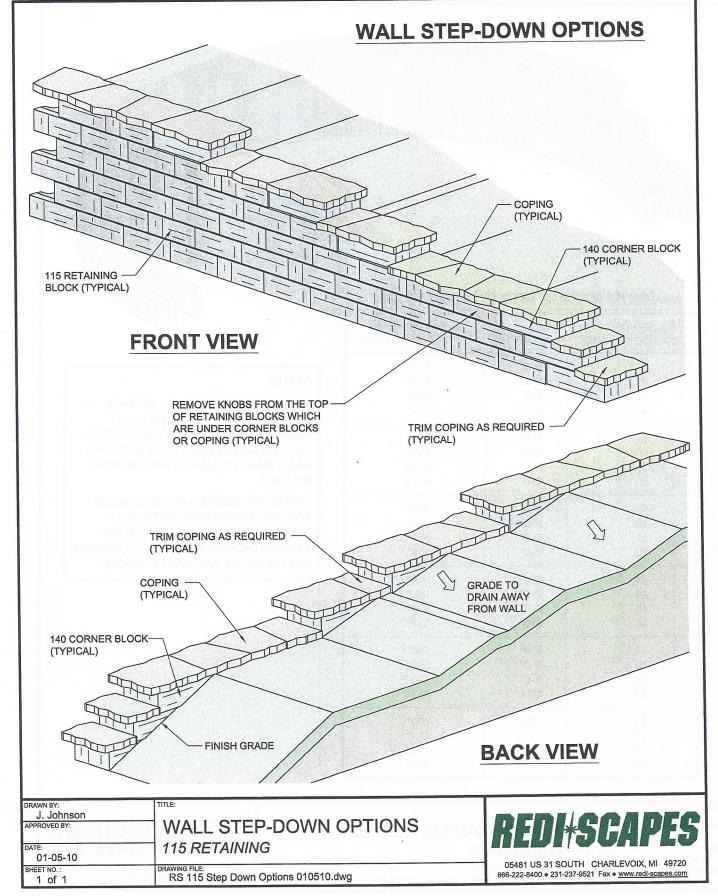
THIS DETAIL IS RECOMMENDED IN AREAS WHERE GROUNDWATER CAN BE EXPECTED NEAR THE BOTTOM OF THE WALL OR FLOWING THROUGH THE RETAINED SOIL ZONE

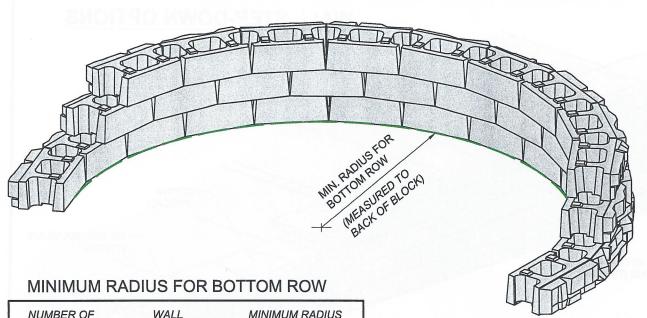
DRAWN BY: J. Johnson	TITLE:
APPROVED BY:	DRAIN PLACEMENT OPTIONS
DATE: 12-11-09	115 RETAINING
SHEET NO.: 2 of 2	DRAWING FILE: RS 115 Drain Options 121109.dwg











NUMBER OF COURSES IN WALL	WALL HEIGHT	MINIMUM RADIUS FOR BOTTOM ROW
1	0'-6"	4'-4"
2	1'-0"	4'-5"
3	1'-6"	4'-6"
4	2'-0""	4'-7"
5	2'-6"	4'-8"
6	3'-0"	4'-9"
7	3'-6"	4'-10"
8	4'-0"	4'-11"
9	4'-6"	5'-0"
10	5'-0"	5'-1"
11	5'-6"	5'-2"
12	6'-0"	5'-3"
13	6'-6"	5'-4"
14	7'-0"	5'-5"
15	7'-6"	5'-6"
16	8'-0"	5'-7""
17	8'-6"	5'-8"
18	9'-0"	5'-9"
19	9'-6"	5'-10"
20	10'-0"	5'-11"
21	10'-6"	6'-0"
22	11'-0"	6'-1"
23	11'-6"	6'-2"
24	12'-0"	6'-3"

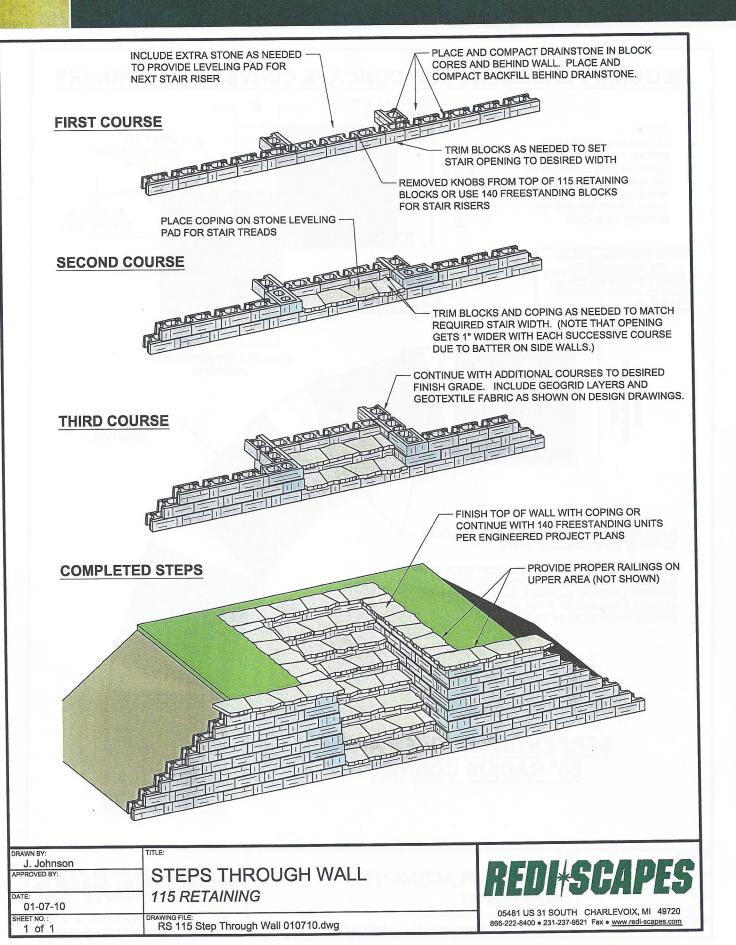
### NOTE:

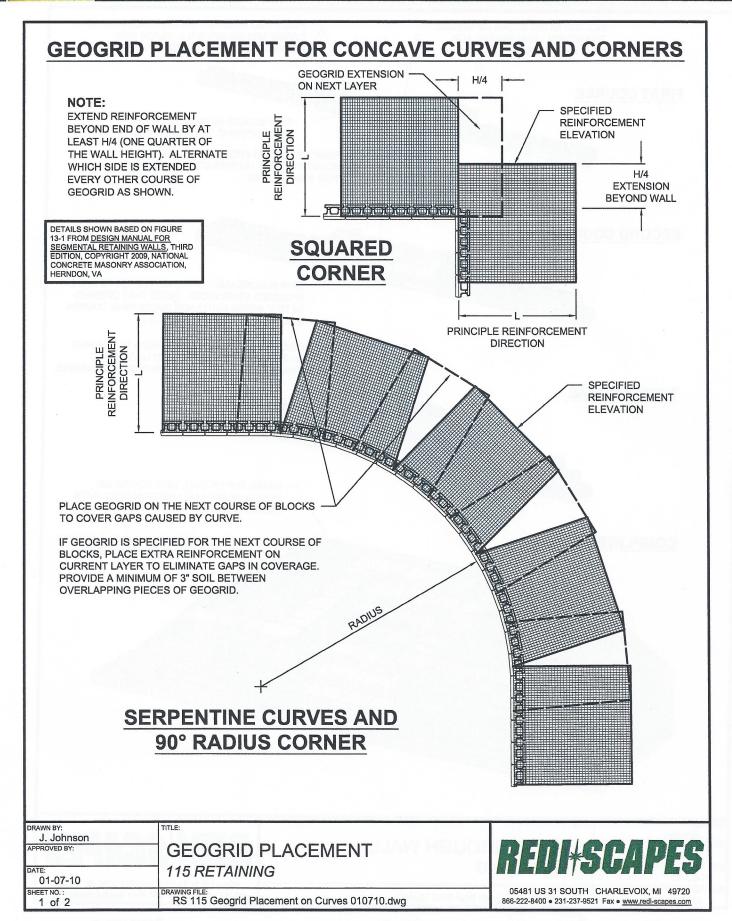
115 SERIES BLOCKS HAVE A SETBACK, OR BATTER, BETWEEN COURSES. AS A RESULT, WHEN CONSTRUCTING A CURVE WITH 115 SERIES BLOCKS, EACH COURSE HAS A SMALLER RADIUS THAN THE ROW BELOW IT.

THIS CHART SHOWS A MINIMUM RADIUS FOR THE BOTTOM ROW WHICH WILL ACCOUNT FOR THE WALL BATTER AND PROVIDE ENOUGH ROOM TO FIT A MINIMUM RADIUS ON THE TOP ROW OF BLOCKS.

DRAWN BY: J. Johnson	TITLE:	PERSON
APPROVED BY:	MINIMUM RADIUS DETAILS	
DATE: 01-06-10	115 RETAINING	
SHEET NO.: 1 of 1	DRAWING FILE: RS 115 Minimum Radius Details 010610.dwg	

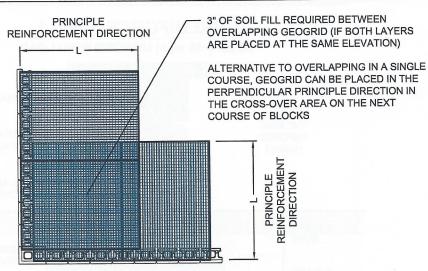




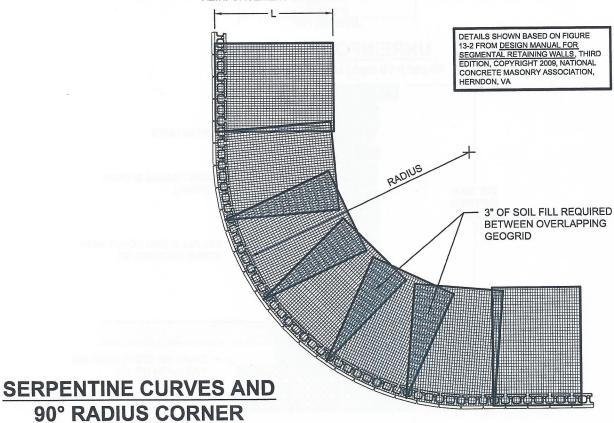


## GEOGRID PLACEMENT FOR CONVEX CURVES AND CORNERS





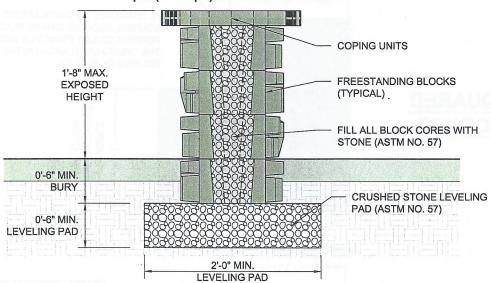
PRINCIPLE REINFORCEMENT DIRECTION



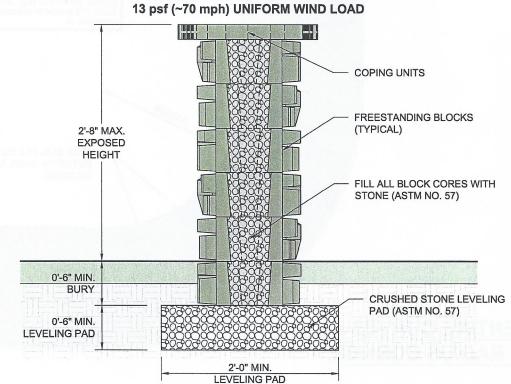
DRAWN BY:	TITLE:
J. Johnson	
APPROVED BY:	GEOGRID PLACEMENT
DATE: 01-07-10	115 RETAINING
SHEET NO.: 2 of 2	RS 115 Geogrid Placement on Curves 010710.dwg



# FREESTANDING WALL SECTIONS - 1 OF 2 UNREINFORCED WALL 20 psf (~90 mph) UNIFORM WIND LOAD



# UNREINFORCED WALL



DRAWN BY: J. Johnson	TITLE:	
APPROVED BY:	FREESTANDING WALL OPTIONS	
DATE: 01-08-10	140 FREESTANDING	
SHEET NO.: 1 of 2	DRAWING FILE: RS 140 Freestanding Section 010810.dwg	

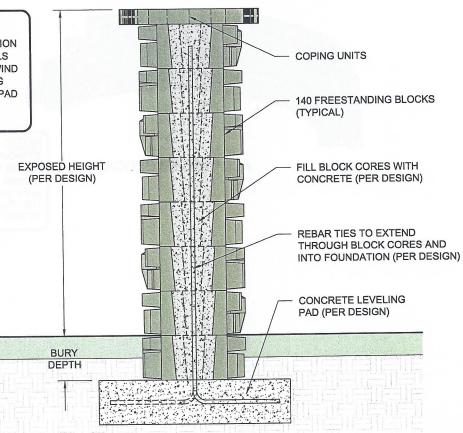
REDI\*SCAPES

# FREESTANDING WALL SECTIONS - 2 OF 2

### **REINFORCED WALL**

#### NOTE:

USE THE REINFORCED WALL SECTION FOR HIGHER FREESTANDING WALLS OR WALLS SUBJECT TO LARGER WIND OR APPLIED LOADS. REINFORCING STEEL AND CONCRETE LEVELING PAD ARE SIZED TO MEET PROJECT SPECIFIC REQUIREMENTS.



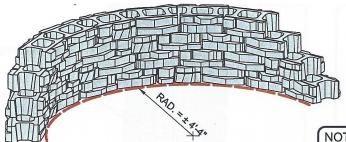
### FREESTANDING WALL INSTALLATION NOTES

- 1. FOOTING EXCAVATION SHOULD BE TO THE DEPTH SHOWN IN THE ENGINEERED PLANS FOR THE WALL, BUT AT LEAST 6" BELOW THE ELEVATION OF THE BOTTOM BLOCK IN THE WALL.
- 2. FOOTING EXCAVATION WIDTH SHOULD BE A MINIMUM OF 24", WHICH WILL PROVIDE 6" ON EITHER SIDE OF THE BOTTOM BLOCK.
- 3. EXISTING SOIL SUB-GRADE SHOULD BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY BEFORE FOUNDATION MATERIAL IS INTRODUCED. SUB-GRADE SOIL SHOULD BE FIRM NATIVE SOIL, DRY AND STABLE. CONSULT A SOILS ENGINEER IF IN DOUBT.
- 4. PLACE LEVELING PAD MATERIAL AS SPECIFIED IN THE WALL DESIGN.
- 5. WALLS SHALL HAVE THE BOTTOM COURSE BURIED TO THE DEPTH SHOWN ON THE ENGINEERED DESIGN. A MINIMUM BURY OF 6" IS RECOMMENDED.
- 6. PLACE THE BOTTOM COURSE OF WALL BLOCKS. TAKE CARE TO LEVEL THE BLOCKS BOTH PARALLEL AND PERPENDICULAR TO THE WALL.
- 7. PLACE SUCCESSIVE UNITS TO THE DESIRED WALL HEIGHT.
- 8. FILL BLOCK CORES WITH STONE OR CONCRETE AS SPECIFIED IN THE DETAILED ENGINEERING PLANS. STEEL REINFORCEMENT, IF REQUIRED, MUST BE PLACED AS DETAILED IN THE WALL PLANS.
- 9. PLACE COPING UNITS TO FINISH THE WALL. COPING SHOULD ADHERE TO THE FREESTANDING BLOCKS WITH CONCRETE ADHESIVE OR OTHER MEANS AS SPECIFIED IN THE ENGINEERED WALL PLANS.

DRAWN BY: J. Johnson	TITLE:
APPROVED BY:	FREESTANDING WALL OPTIONS
DATE: 01-08-10	140 FREESTANDING
SHEET NO.: 2 of 2	RS 140 Freestanding Section 010810.dwg



### **CURVES MADE WITH 140 FREESTANDING BLOCKS**



**ALL CURVED BLOCKS** 

### NOTE:

STANDARD CURVES MADE WITH 140 SERIES FREESTANDING BLOCKS ARE SHOWN. OTHER CURVES CAN BE MADE BY TRIMMING OR ALTERNATING THE ORIENTATION OF THE CURVED BLCOKS AS NEEDED.

DRAWN BY:	TITLE:
J. Johnson APPROVED BY:	CURVE OPTIONS
DATE: 01-19-10	140 FREESTANDING
SHEET NO.: 1 of 1	RS 140 Curve Options 011910.dwg