

RECON BLOCK LEDGEND	
BLOCK DESCRIPTION	BLOCK ABBREVIATION
24" BASE	24B
39" BASE	39B
45" BASE	45B
60" BASE	60B
66" BASE	66B
72" BASE	72B
78" BASE	78B
84" BASE	84B
24" MIDDLE	24M
39" MIDDLE	39M
45" MIDDLE	45M
60" MIDDLE	60M
66" MIDDLE	66M
72" MIDDLE	72M
78" MIDDLE	78M
84" MIDDLE	84M
24" TOP	24T
39" TOP	39T
24" HALF	24H
39" HALF	39H
HALF TOP - 24"	HT
LEFT CORNER TOP	LCT
RIGHT CORNER TOP	RCT
SLOPED LEFT CORNER TOP	SLCT
SLOPED RIGHT CORNER TOP	SRCT
REVERSIBLE CORNER	C
FITTING - 24"	FIT24
FITTING - 39"	FIT39

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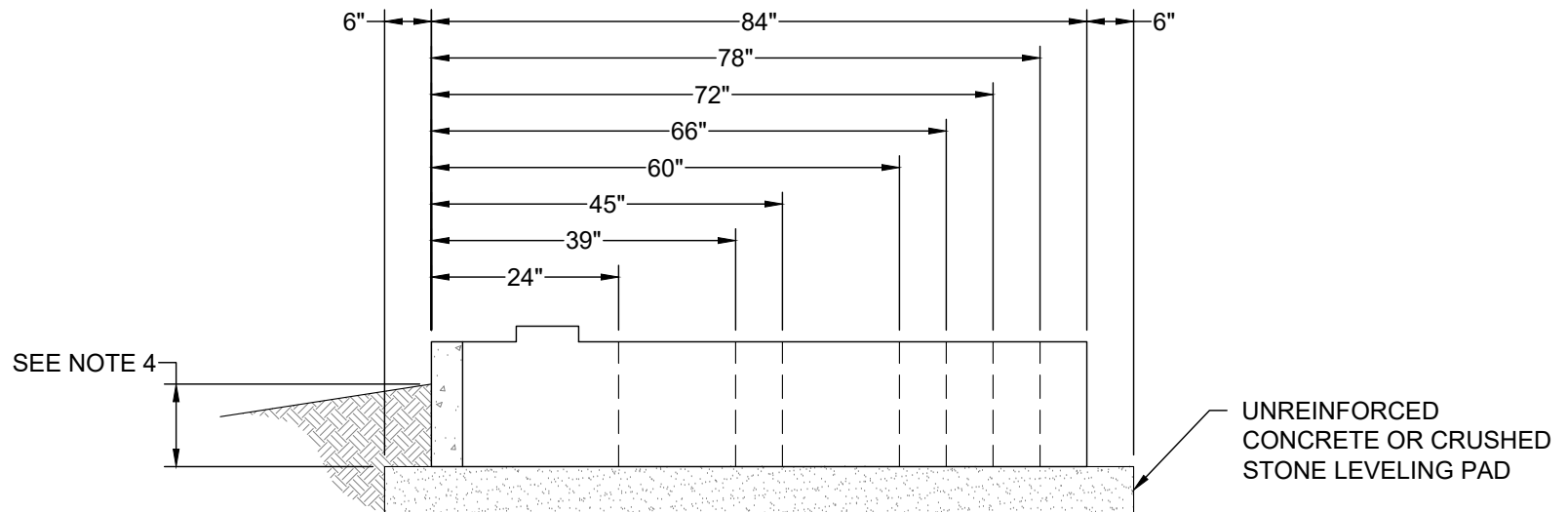
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ReConTM
Retaining Walls

DRAWING #101

RECON BLOCK TYPES

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7600 W. 27th STREET, #229
ST. LOUIS PARK, MN 55426
952-922-0027
www.reconwalls.com



NOTES:

1. LEVELING PAD SHOULD BE AS SPECIFIED BY THE DESIGN ENGINEER IN THE PROJECT PLAN SET.
2. THE WIDTH OF THE LEVELING PAD MUST EXTEND 6" (MINIMUM) IN FRONT AND 6" (MINIMUM) IN BACK OF THE BASE BLOCK. AS A RESULT THE TYPICAL WIDTH OF LEVELING PAD WOULD BE:
 - 24" DEEP BASE BLOCK...LEVELING PAD WIDTH IS 36"
 - 39" DEEP BASE BLOCK...LEVELING PAD WIDTH IS 51"
 - 45" DEEP BASE BLOCK...LEVELING PAD WIDTH IS 57"
 - 60" DEEP BASE BLOCK...LEVELING PAD WIDTH IS 72"
 - 66" DEEP BASE BLOCK...LEVELING PAD WIDTH IS 78"
 - 72" DEEP BASE BLOCK...LEVELING PAD WIDTH IS 84"
 - 78" DEEP BASE BLOCK...LEVELING PAD WIDTH IS 90"
 - 84" DEEP BASE BLOCK...LEVELING PAD WIDTH IS 96"
3. SET THE BASE BLOCK AND CHECK FOR LEVEL FROM FRONT TO BACK.
4. EMBEDMENT SHOULD BE THE GREATER OF 6" OR H/20 FOR WALLS WITH LEVEL GRADE AT THE TOE. REFER TO RECON'S EMBEDMENT RECOMMENDATION DOCUMENT FOR ADDITIONAL INFORMATION FOR WALLS WITH A TOE SLOPE CONDITION.
5. COMPACTION TO THE SPECIFIED EMBEDMENT DEPTH SHALL BE DONE IN FRONT OF THE BASE BLOCK **BEFORE** COMPACTION IS DONE BEHIND THE BASE BLOCK. THIS REDUCES THE CHANCE THAT COMPACTION BEHIND THE BASE BLOCK WILL ROLL THE BASE BLOCK FORWARD.
6. SEE BLOCK SPECIFICATION & INSTALLATION INSTRUCTIONS FOR MORE DETAILS.

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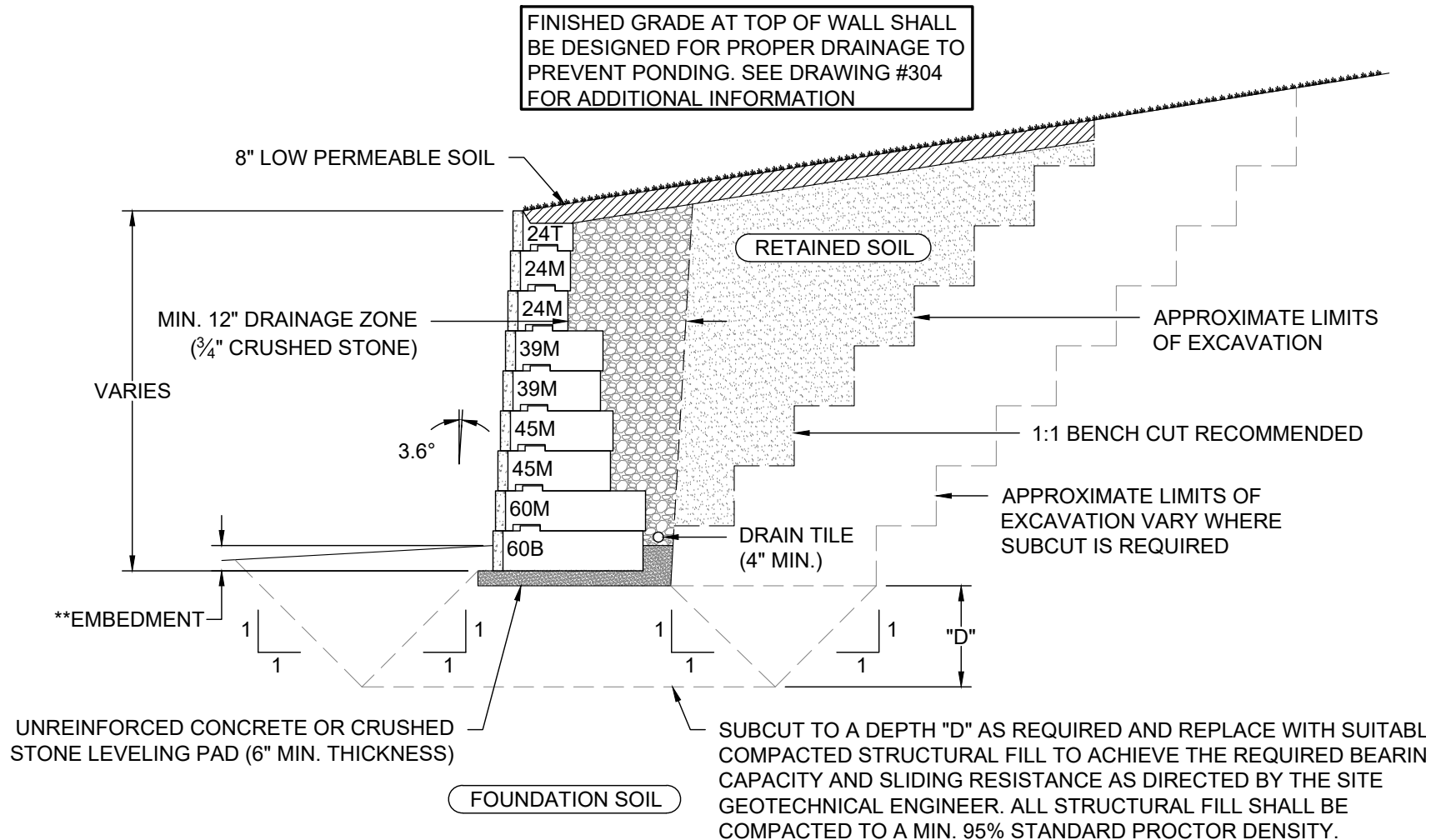
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DRAWING #102

BASE BLOCK PLACEMENT

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**EMBEDMENT SHOULD BE THE GREATER OF 6" OR $H/20$ FOR WALLS WITH LEVEL GRADE AT THE TOE. REFER TO RECON'S EMBEDMENT RECOMMENDATION DOCUMENT FOR ADDITIONAL INFORMATION FOR WALLS WITH A TOE SLOPE CONDITION.

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DRAWING #103

TYPICAL GRAVITY WALL CROSS SECTION

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PREVENT PONDING. SEE DRAWING #304 FOR ADDITIONAL INFORMATION

8" LOW PERMEABLE SOIL

24T

24M

24M

24M

24M

24M

24M

24M

24B

MIN. 12" DRAINAGE ZONE (3/4" CRUSHED STONE)

VARIABLES

3.6°

GRID DEPTH

REINFORCED SOIL

RETAINED SOIL

APPROXIMATE LIMITS OF EXCAVATION

1:1 BENCH CUT RECOMMENDED

APPROXIMATE LIMITS OF EXCAVATION VARY WHERE SUBCUT IS REQUIRED

DRAIN TILE (4" MIN.)

**EMBEDMENT

1

1

1

1

1

1

"D"

UNREINFORCED CONCRETE OR CRUSHED STONE LEVELING PAD (6" MIN. THICKNESS)

FOUNDATION SOIL

SUBCUT TO A DEPTH "D" AS REQUIRED AND REPLACE WITH SUITABLE COMPACTED STRUCTURAL FILL TO ACHIEVE THE REQUIRED BEARING CAPACITY AND SLIDING RESISTANCE AS DIRECTED BY THE SITE GEOTECHNICAL ENGINEER. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MIN. 95% STANDARD PROCTOR DENSITY.

SHOULD BE THE GREATER OF 6" OR 1/20 FOR

8" LOW PERMEABLE SOIL

MIN. 12" DRAINAGE ZONE
(3/4" CRUSHED STONE)

VARIES

3.6°

REINFORCED SOIL

RETAINED SOIL

APPROXIMATE
LIMITS OF
EXCAVATION

- 1:1 BENCH CUT
RECOMMENDED

APPROXIMATE LIMITS OF
EXCAVATION VARY WHERE
SUBCUT IS REQUIRED

- DRAIN TILE
(4" MIN.)

-GRID DEPTH

****EMBEDMENT.**

UNREINFORCED CONCRETE OR CRUSHED
STONE LEVELING PAD (6" MIN. THICKNESS)

FOUNDATION SOIL

SUBCUT TO A DEPTH "D" AS REQUIRED AND REPLACE WITH SUITABLE COMPACTED STRUCTURAL FILL TO ACHIEVE THE REQUIRED BEARING CAPACITY AND SLIDING RESISTANCE AS DIRECTED BY THE SITE GEOTECHNICAL ENGINEER. ALL STRUCTURAL FILL SHALL BE COMPACTED TO A MIN. 95% STANDARD PROCTOR DENSITY.

****EMBEDMENT SHOULD BE THE GREATER OF 6" OR H/20 FOR WALLS WITH LEVEL GRADE AT THE TOE. REFER TO RECON'S EMBEDMENT RECOMMENDATION DOCUMENT FOR ADDITIONAL INFORMATION FOR WALLS WITH A TOE SLOPE CONDITION.**

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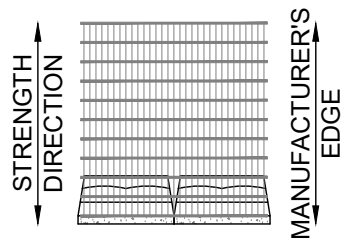


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DRAWING #104

TYPICAL GEOGRID WALL CROSS SECTION

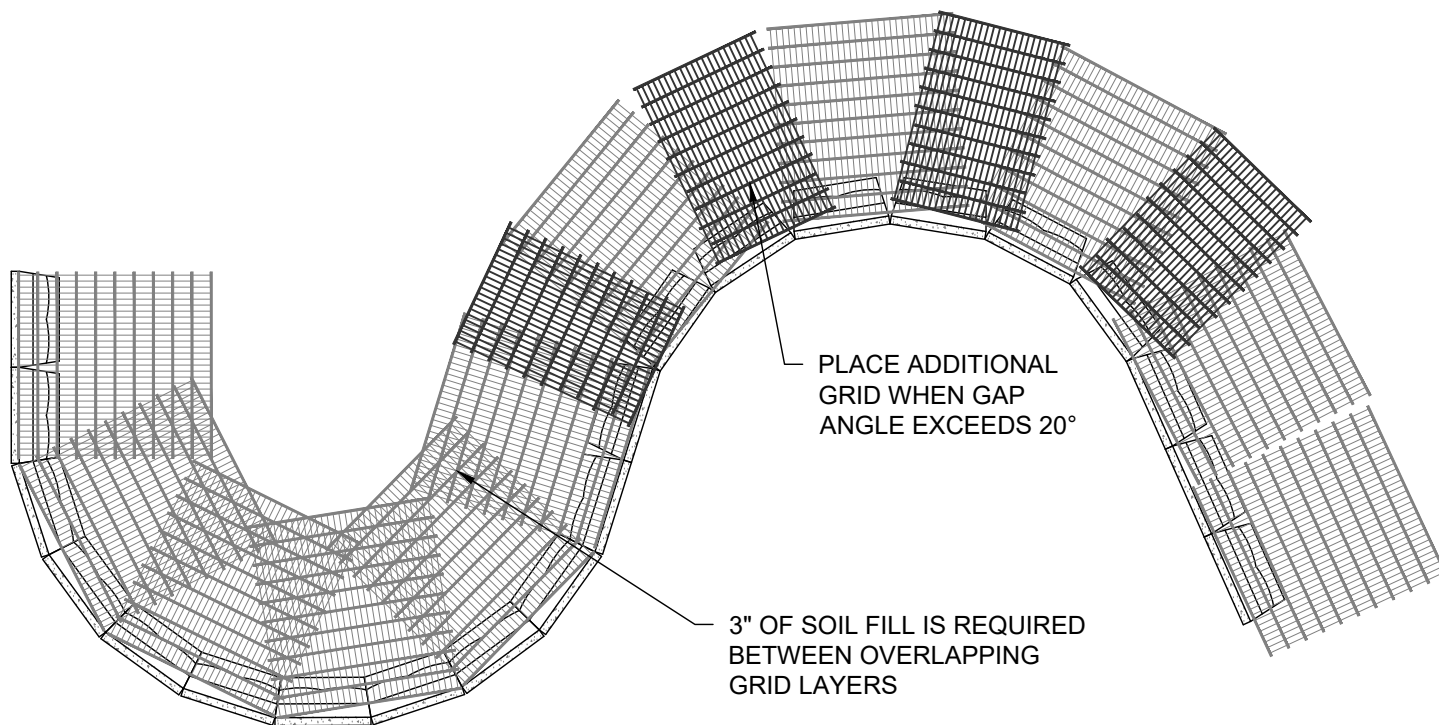
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NOTE:

GEOGRID SHALL BE LAID HORIZONTALLY ON TOP OF BLOCK AND LEVEL COMPACTED BACKFILL. THE GEOGRID MUST BE EXTENDED FORWARD ON THE BLOCK OVER THE TONGUE AND UP TO THE UNEXPOSED FRONT EDGE OF THE BLOCK. THE NEXT COURSE OF BLOCK SHALL BE PLACED SUCH THAT THE GRID IS DEFORMED OVER THE TONGUE AND GROOVE WITH THE BACK EDGE OF THE GROOVE ON THE UPPER BLOCK AGAINST THE BACK OF THE TONGUE ON THE LOWER BLOCK. PULL GRIDS TAUGHT, REMOVING ALL SLACK. ANCHOR/STAKE GRID TO THE COMPACTED FILL PRIOR TO PLACING ANY ADDITIONAL FILL MATERIAL. **PROPER GRID ORIENTATION IS CRITICAL. THE STRENGTH DIRECTION OF THE GRID (FACTORY EDGE) MUST EXTEND PERPENDICULAR TO THE FACE OF THE WALL.** SEE MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.

GEOGRID PLACEMENT / ORIENTATION



GEOGRID INSTALLATION ON CURVES

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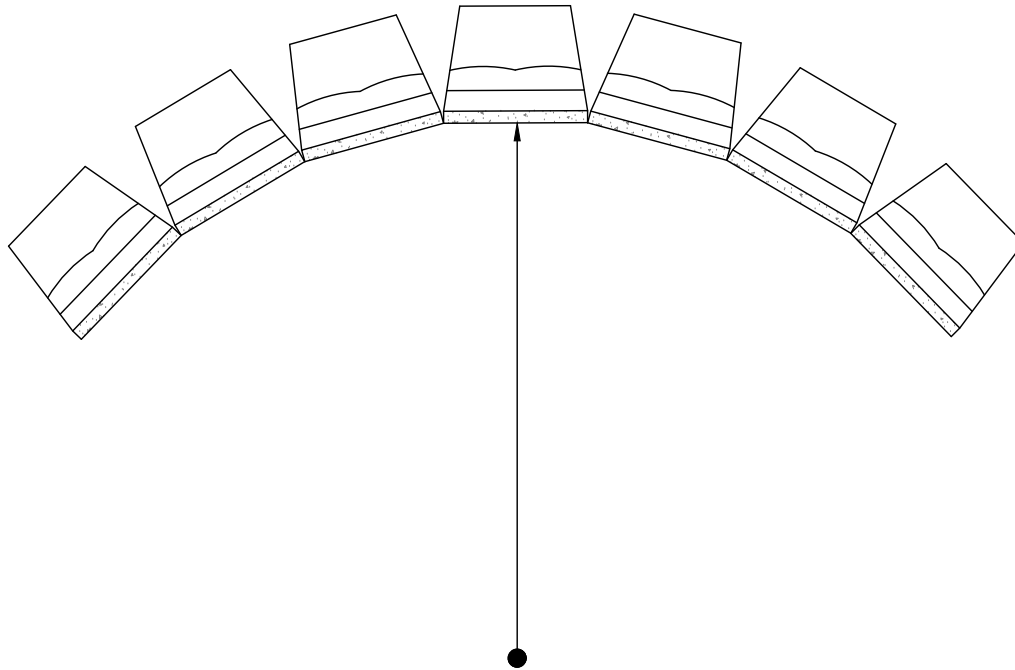
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DRAWING #105

**GEOGRID ORIENTATION
AND CURVED WALLS**

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THE MINIMUM RADIUS ON THE BASE ROW OF A SINGLE COURSE WALL IS 15'-0". SEE CHART FOR MINIMUM RADIUS OF THE TOP ROW FOR VARYING WALL HEIGHTS.



**MINIMUM CONCAVE / INSIDE RADIUS
FOR FULL BLOCK**

**MINIMUM RADIUS TABLE
CONCAVE / INSIDE CURVE**

WALL HEIGHT	NUMBER OF ROWS OF BLOCK	MINIMUM RADIUS TOP ROW
2'-8"	2	15'-2"
4'-0"	3	15'-4"
5'-4"	4	15'-6"
6'-8"	5	15'-8"
8'-0"	6	15'-10"
9'-4"	7	16'-0"
10'-8"	8	16'-2"
12'-0"	9	16'-4"

NOTE: THE MINIMUM BASE ROW RADIUS FOR A CONCAVE / INSIDE CURVE USING THE FULL BLOCK SHALL BE NO SMALLER THAN 15'-0" FOR A SINGLE COURSE WALL. THE RADIUS FOR EACH SUCCESSIVE ROW WILL INCREASE BY 2" PER COURSE OF BLOCK ADDED TO ACCOUNT FOR SETBACK. SEE BLOCK SPECIFICATION AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS.

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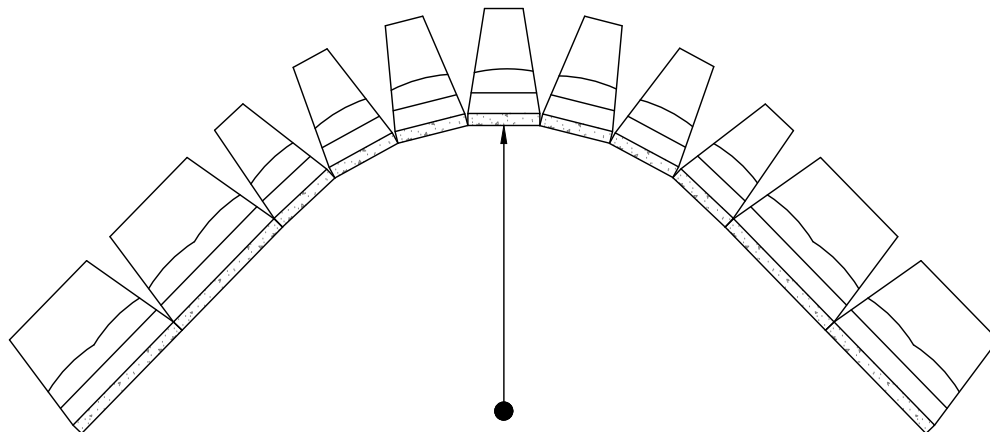


DRAWING #106

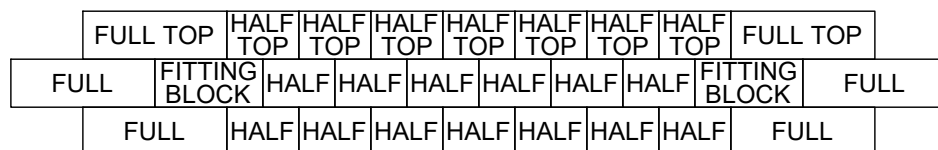
**INSIDE RADIUS
FULL BLOCK**

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THE MINIMUM RADIUS ON THE BASE ROW OF A SINGLE COURSE WALL IS 8'-0". SEE CHART FOR MINIMUM RADIUS OF THE TOP ROW FOR VARYING WALL HEIGHTS.



**MINIMUM CONCAVE / INSIDE RADIUS
FOR HALF BLOCK - PLAN VIEW**



NOTE: TO ESTABLISH PROPER RUNNING BOND WHEN USING THE HALF BLOCKS THROUGH THE CURVE, IT IS RECOMMENDED THAT A FITTING BLOCK TRIMMED TO 36" IN LENGTH BE INSTALLED EVERY OTHER COURSE AS SHOWN. INSTALL FITTING BLOCK AT BEGINNING AND END OF BLOCKS CREATING CURVE.

**MINIMUM CONCAVE / INSIDE RADIUS
FOR HALF BLOCK - PROFILE VIEW**

**MINIMUM RADIUS TABLE
CONCAVE / INSIDE CURVE**

WALL HEIGHT	NUMBER OF ROWS OF BLOCK	MINIMUM RADIUS TOP ROW
2'-8"	2	8'-2"
4'-0"	3	8'-4"
5'-4"	4	8'-6"
6'-8"	5	8'-8"
8'-0"	6	8'-10"
9'-4"	7	9'-0"
10'-8"	8	9'-2"
12'-0"	9	9'-4"

NOTE: THE MINIMUM BASE ROW RADIUS FOR A CONCAVE / INSIDE CURVE USING THE HALF BLOCK SHALL BE NO SMALLER THAN 8'-0" FOR A SINGLE COURSE WALL. THE RADIUS FOR EACH SUCCESSIVE ROW WILL INCREASE BY 2" PER COURSE OF BLOCK ADDED TO ACCOUNT FOR SETBACK. SEE BLOCK SPECIFICATION AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS.

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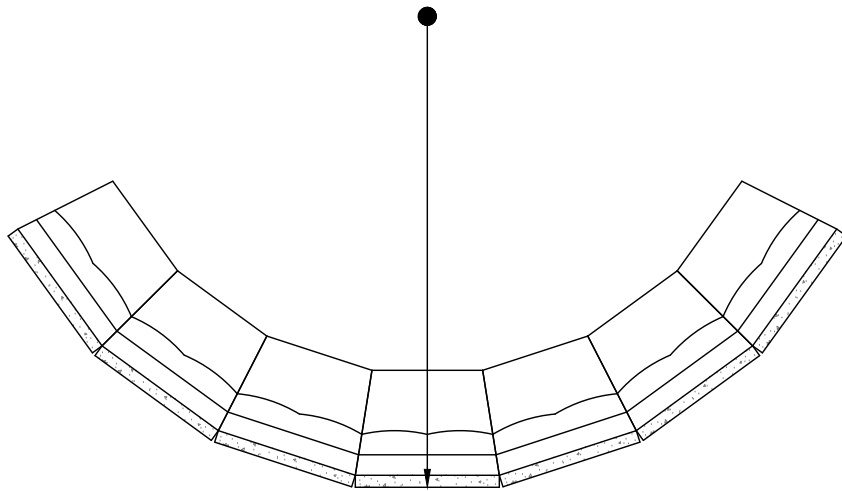


DRAWING #107

INSIDE RADIUS HALF BLOCK

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THE MINIMUM RADIUS ON THE BASE ROW OF A SINGLE COURSE WALL IS 13'-1". SEE CHART FOR RECOMMENDED MINIMUM BASE ROW RADIUS FOR VARYING WALL HEIGHTS.



MINIMUM CONVEX / OUTSIDE RADIUS FOR FULL BLOCK

MINIMUM RADIUS TABLE CONVEX / OUTSIDE CURVE

WALL HEIGHT	NUMBER OF ROWS OF BLOCK	MINIMUM RADIUS BASE ROW
2'-8"	2	14'-0"
4'-0"	3	14'-6"
5'-4"	4	15'-0"
6'-8"	5	15'-6"
8'-0"	6	16'-0"
9'-4"	7	16'-6"
10'-8"	8	17'-0"
12'-0"	9	17'-6"

NOTE: THE MINIMUM RADIUS FOR A CONVEX / OUTSIDE CURVE USING THE FULL BLOCK SHALL BE NO SMALLER THAN 13'-1" FOR A SINGLE COURSE WALL. FOR CURVED WALLS WITH MULTIPLE ROWS OF BLOCK, THE RADIUS OF THE BASE COURSE MUST BE INCREASED TO ACCOMMODATE THE SETBACK (TIGHTENING OF THE RADIUS) IN EACH ROW OF BLOCK. THE TABLE ABOVE GIVES RECOMMENDED MINIMUM BASE ROW RADII FOR VARYING WALL HEIGHTS. SEE BLOCK SPECIFICATION AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS.

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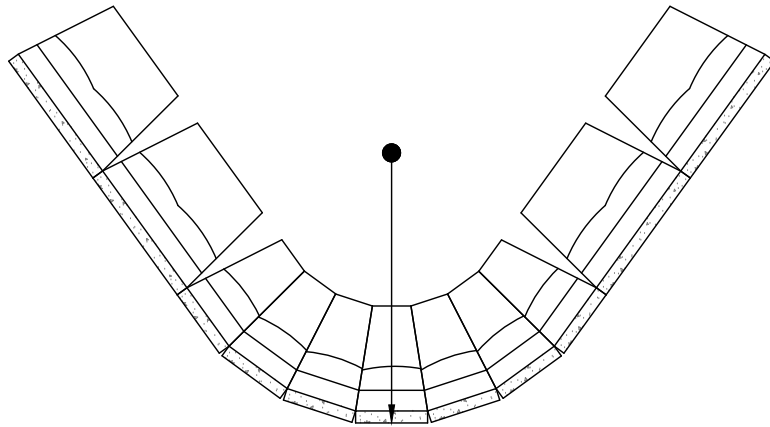


DRAWING #108

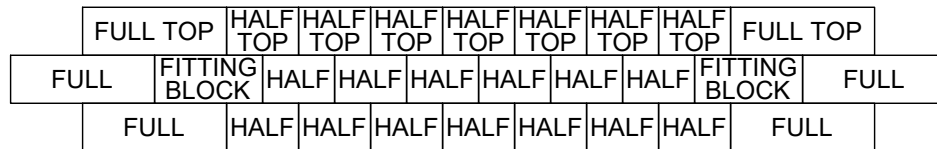
OUTSIDE RADIUS FULL BLOCK

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THE MINIMUM RADIUS ON THE BASE ROW OF A SINGLE COURSE WALL IS 7'-6". SEE CHART FOR RECOMMENDED MINIMUM BASE ROW RADIUS FOR VARYING WALL HEIGHTS.



MINIMUM CONVEX / OUTSIDE RADIUS FOR HALF BLOCK - PLAN VIEW



NOTE: TO ESTABLISH PROPER RUNNING BOND WHEN USING THE HALF BLOCKS THROUGH THE CURVE, IT IS RECOMMENDED THAT A FITTING BLOCK TRIMMED TO 36" IN LENGTH BE INSTALLED EVERY OTHER COURSE AS SHOWN. INSTALL FITTING BLOCK AT BEGINNING AND END OF BLOCKS CREATING CURVE.

MINIMUM CONVEX / OUTSIDE RADIUS FOR HALF BLOCK - PROFILE VIEW

MINIMUM RADIUS TABLE CONVEX / OUTSIDE CURVE

WALL HEIGHT	NUMBER OF ROWS OF BLOCK	MINIMUM RADIUS BASE ROW
2'-8"	2	8'-0"
4'-0"	3	8'-6"
5'-4"	4	9'-0"
6'-8"	5	9'-6"
8'-0"	6	10'-0"
9'-4"	7	10'-6"
10'-8"	8	11'-0"
12'-0"	9	11'-6"

NOTE: THE MINIMUM RADIUS FOR A CONVEX / OUTSIDE CURVE USING THE HALF BLOCK SHALL BE NO SMALLER THAN 7'-6" FOR A SINGLE COURSE WALL. FOR CURVED WALLS WITH MULTIPLE ROWS OF BLOCK, THE RADIUS OF THE BASE COURSE MUST BE INCREASED TO ACCOMMODATE THE SETBACK (TIGHTENING OF THE RADIUS) IN EACH ROW OF BLOCK. THE TABLE ABOVE GIVES RECOMMENDED MINIMUM BASE ROW RADII FOR VARYING WALL HEIGHTS. SEE BLOCK SPECIFICATION AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL DETAILS.

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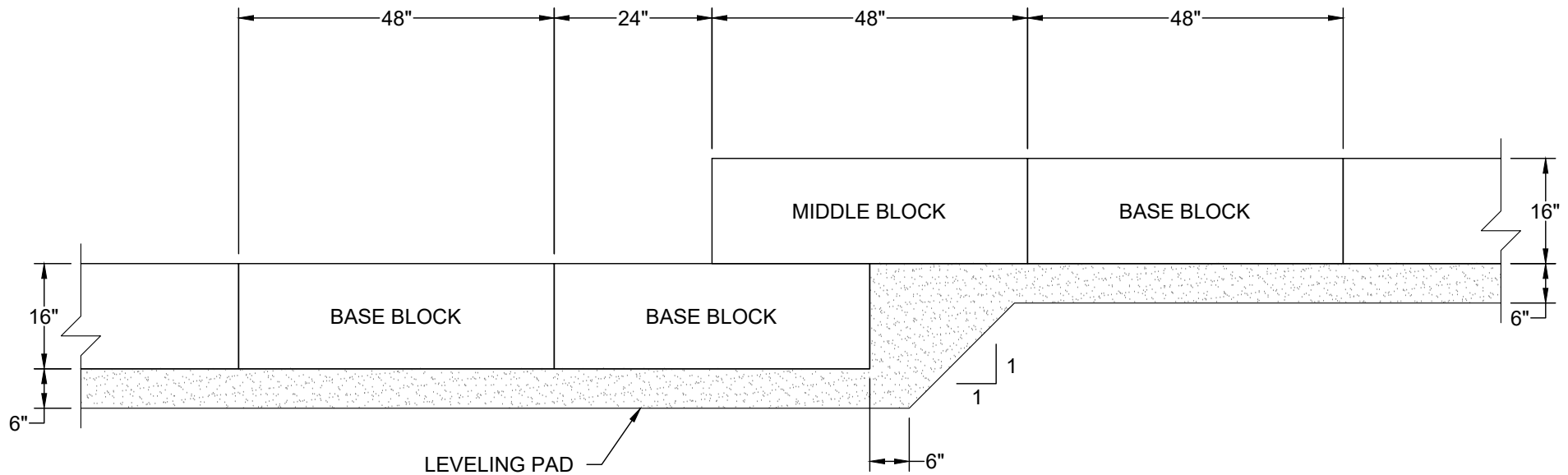
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DRAWING #109

OUTSIDE RADIUS HALF BLOCK

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NOTE: BLOCK MUST BE PLACED ON A MINIMUM 6" THICK LEVELING PAD CONSISTING OF $\frac{3}{4}$ " CRUSHED STONE, CLASS 5, OR LEAN CONCRETE AS SPECIFIED IN THE SITE SPECIFIC PLANS DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. GENERALLY THE LEVELING PAD BASE MATERIAL MUST BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.



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DRAWING #110

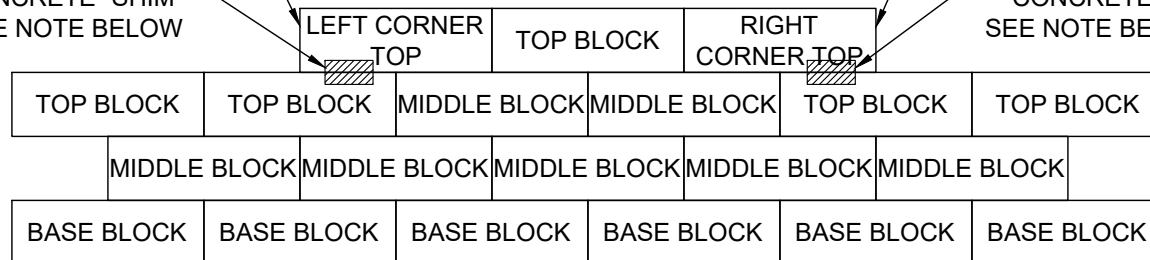
**BASE ROW
STEP UP**

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NOTE: THE STANDARD PLACEMENT OF A LEFT OR RIGHT CORNER TOP BLOCK IS TO PUT THE FULL 48" LENGTH OF TEXTURE ON THE FRONT FACE OF THE WALL AND THE 24" LENGTH OF TEXTURE ON THE END OF THE BLOCK RUNNING BACK INTO GRADE.

THERE IS 24" OF TEXTURE ON THE END OF THIS BLOCK RUNNING BACK INTO GRADE

** CONCRETE "SHIM" SEE NOTE BELOW



THERE IS 24" OF TEXTURE ON THE END OF THIS BLOCK RUNNING BACK INTO GRADE

** CONCRETE SHIM SEE NOTE BELOW

STANDARD TOP OF WALL STEP UP

** NOTE: A CONCRETE "SHIM" MUST BE PLACED BETWEEN THE TOP BLOCK AND A LEFT OR RIGHT CORNER TOP BLOCK AT EACH POINT IN THE WALL WHERE THE TOP OF WALL STEPS UP. USE A STANDARD CONCRETE MASONRY UNIT (CMU) FOR THE "SHIM". THE REQUIRED THICKNESS OF THE "SHIM" IS 7 ½" SO THE CMU WILL NEED TO BE TRIMMED ACCORDINGLY. THE "SHIM" SHOULD BE GLUED TO BOTH THE TOP BLOCK ON WHICH IT IS PLACED AND ALSO TO THE LEFT OR RIGHT CORNER TOP BLOCK ABOVE. PL PREMIUM IS THE RECOMMENDED ADHESIVE FOR GLUING THE "SHIM" IN PLACE. ANY REMAINING VOID SPACE BETWEEN THE TOP BLOCK AND THE CORNER TOP BLOCK SHOULD BE FILLED WITH CRUSHED STONE.

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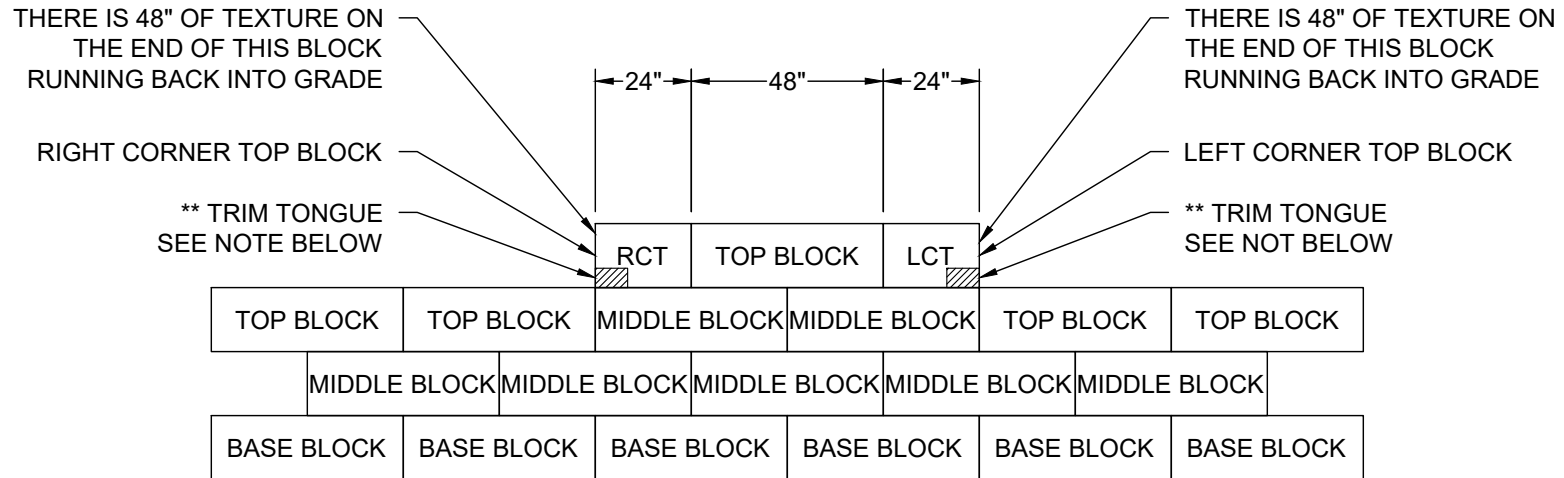
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DRAWING #111

STANDARD TOP OF WALL STEP UP

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NOTE: THE ALTERNATE TOP OF WALL STEP UP CONSISTS OF PLACING A LEFT OR RIGHT CORNER TOP BLOCK WITH THE 24" LENGTH OF TEXTURE ON THE FRONT FACE OF THE WALL AND THE 48" LENGTH OF TEXTURE ON THE END OF THE BLOCK RUNNING BACK INTO GRADE. THIS OPTION DOES NOT REQUIRE SHIMMING THE CORNER TOP BLOCK BUT DOES REQUIRE THE TRIMMING OF THE MIDDLE BLOCK TONGUE. THIS OPTION ALSO ALLOWS FOR A MORE GRADUAL SLOPE AT THE TOP OF THE WALL.



ALTERNATE TOP OF WALL STEP UP

** NOTE: APPROXIMATELY 7" OF THE TONGUE OF THE FULL MIDDLE BLOCK DIRECTLY BENEATH THE CORNER TOP BLOCK MUST BE CUT OFF. NO SHIMMING, AS SHOWN IN THE STANDARD TOP OF WALL STEP UP, IS REQUIRED.

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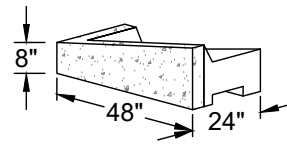


DRAWING #112

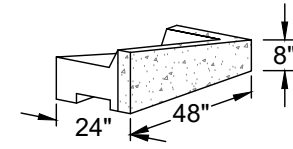
ALTERNATE TOP OF WALL STEP UP

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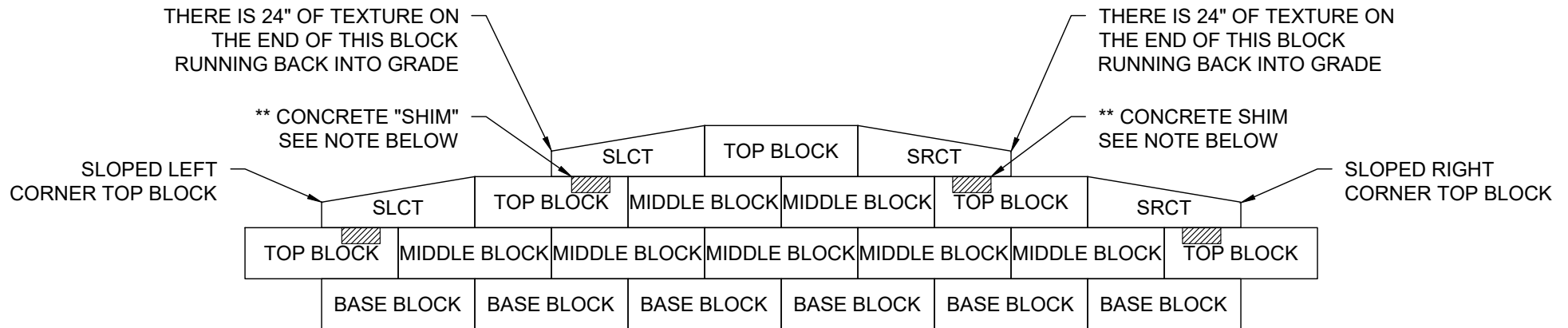
NOTE: SLOPED CORNER TOP BLOCKS MUST BE PLACED OVER A STANDARD TOP BLOCK, AND SUPPORTED WITH A "SHIM", AS SHOWN BELOW. PROPER INSTALLATION SHOULD RESULT IN A TOP OF WALL STEP EVERY 6-FEET.



SLOPED LEFT CORNER TOP (SLCT)



SLOPED RIGHT CORNER TOP (SRCT)



TOP OF WALL STEP UP SLOPED CORNER TOP BLOCK

**** NOTE:** A CONCRETE "SHIM" MUST BE PLACED BETWEEN THE TOP BLOCK AND A SLOPED LEFT OR RIGHT CORNER TOP BLOCK AT EACH POINT IN THE WALL WHERE THE TOP OF WALL STEPS. USE A STANDARD CONCRETE MASONRY UNIT (CMU) FOR THE "SHIM". THE REQUIRED THICKNESS OF THE "SHIM" IS 5" SO THE CMU WILL NEED TO BE TRIMMED ACCORDINGLY. THE "SHIM" SHOULD BE GLUED TO BOTH THE TOP BLOCK ON WHICH IT IS PLACED AND ALSO TO THE LEFT OR RIGHT CORNER TOP BLOCK ABOVE. PL PREMIUM IS THE RECOMMENDED ADHESIVE FOR GLUING THE "SHIM" IN PLACE. ANY REMAINING VOID SPACE BETWEEN THE TOP BLOCK AND THE CORNER TOP BLOCK SHOULD BE FILLED WITH CRUSHED STONE.

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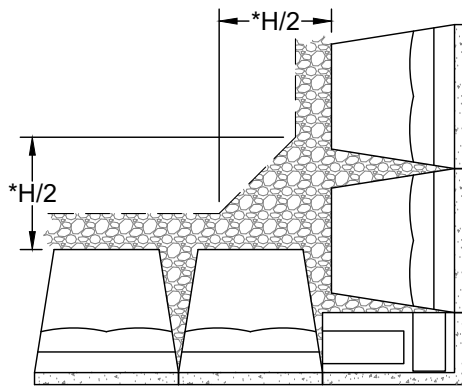
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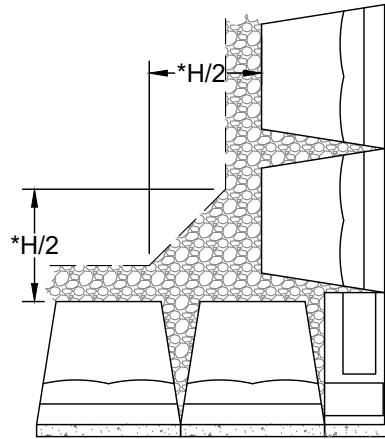
DRAWING #113

TOP OF WALL STEP UP SLOPED CORNER TOP BLOCK

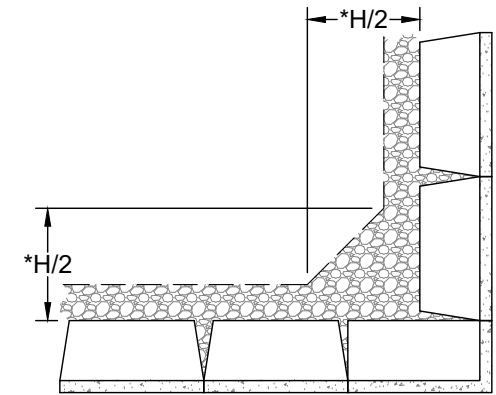
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ODD ROW

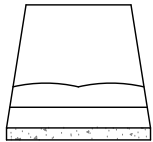


EVEN ROW

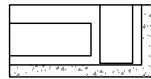


TOP ROW

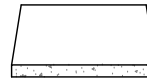
*NOTE: IT IS RECOMMENDED THAT THE DRAINAGE STONE ZONE BE EXPANDED IN THE CORNER TO A MINIMUM $H/2$ (OR GREATER AS SPECIFIED PER THE ENGINEER), WHERE 'H' IS EQUAL TO THE TOTAL WALL HEIGHT AT THE CORNER.



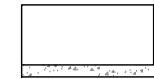
MIDDLE/BASE
(24", 39", OR 45")



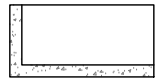
REVERSIBLE CORNER
BLOCK



TOP
BLOCK



RIGHT CORNER TOP
BLOCK



LEFT CORNER TOP
BLOCK

NOTE: WHEN BUILDING A WALL WITH AN OUTSIDE 90° CORNER, IT IS RECOMMENDED THAT CONSTRUCTION START AT THE CORNER AND EXTEND OUTWARD FROM THIS POINT IN BOTH DIRECTIONS. THIS ALLOWS FOR PLACEMENT OF THE CORNER BLOCKS SO THAT 1" OF SET BACK CAN BE MAINTAINED IN THE WALL IN BOTH DIRECTIONS. NO BLOCK CUTTING IS REQUIRED TO MAINTAIN THE 1" OF SET BACK PER ROW OF BLOCK ASSUMING THAT BOTH ENDS OF THE WALL RUNNING AWAY FROM THE 90° CORNER RUN OUT INTO GRADE. IN LIEU OF MAINTAINING THE 1" SET BACK AFTER TURNING A 90° CORNER, YOU CAN BUILD ONE SIDE OF THE CORNER (SAY "SIDE B") VERTICALLY WITHOUT THE 1" SET BACK PER ROW OF BLOCK. THIS WILL REQUIRE YOU TO CUT 1" OFF THE BACK OF THE TONGUE OF THE FIRST REGULAR BLOCK ADJACENT TO THE CORNER BLOCK IN EACH ROW ON SIDE B OF THE WALL. YOU CAN RE-ESTABLISH THE 1" SET BACK ON SIDE B GRADUALLY AS YOU MOVE OUT FROM THE CORNER. HOWEVER, THE ELIMINATION OF THE SET BACK MUST BE TAKEN INTO ACCOUNT IN THE DESIGN OF THE WALL BY THE REGISTERED PROFESSIONAL ENGINEER. **IN EITHER CASE, DURING INSTALLATION, IT IS RECOMMENDED THAT PL PREMIUM ADHESIVE BE APPLIED TO THE TOPS OF ALL REGULAR CORNER BLOCKS PRIOR TO INSTALLING THE NEXT ROW OF BLOCK.** IF ONE END OF THE WALL MUST END VERTICALLY BECAUSE IT ABUTS TO AN EXISTING VERTICAL STRUCTURE OR THE WALL HAS TWO OUTSIDE 90° CORNERS, THEN BLOCKS WILL NEED TO BE CUT TO MAINTAIN THE 1" SET BACK - IN THIS CASE REFER TO DRAWING # 116.

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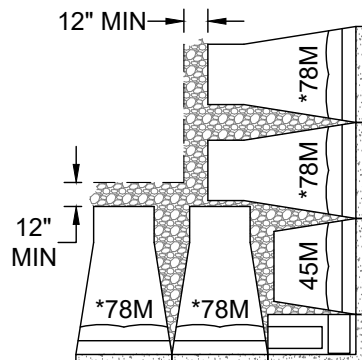
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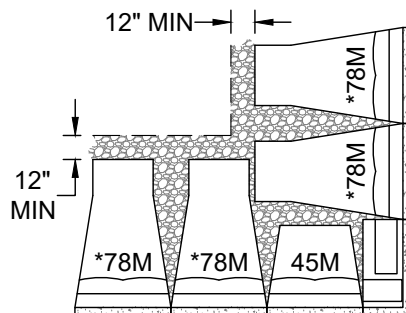
DRAWING #114

OUTSIDE CORNER DETAIL
(24", 39", AND 45" BLOCKS)

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ODD ROW



EVEN ROW

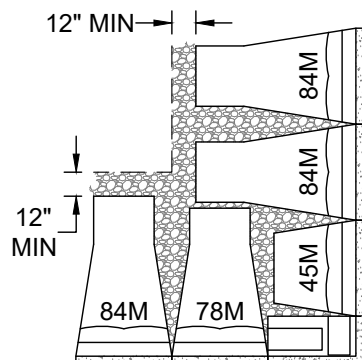
*NOTE: THOSE BLOCK SHOWN AS *78M MAY ALSO BE 60M, 66M, OR 72M (OR BASE BLOCKS) - ALL OTHER BLOCKS SHALL BE AS SHOWN

*78M	*78M	45M		C	*78M	*78M
*78M	*78M	C		45M	*78M	*78M

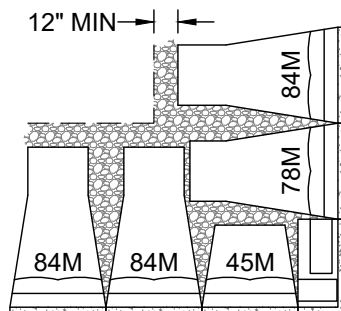
EVEN ROW
ODD ROW

PROFILE VIEW

OUTSIDE CORNER DETAIL 60" TO 78" DEEP BLOCKS



ODD ROW



EVEN ROW

NOTE: REFER TO DRAWING #113 FOR ADDITIONAL INFORMATION AND GENERAL GUIDANCE ON INSTALLATION OF OUTSIDE CORNERS

84M	84M	45M		C	78M	84M
84M	78M	C		45M	84M	84M

EVEN ROW
ODD ROW

PROFILE VIEW

OUTSIDE CORNER DETAIL 84" DEEP BLOCKS

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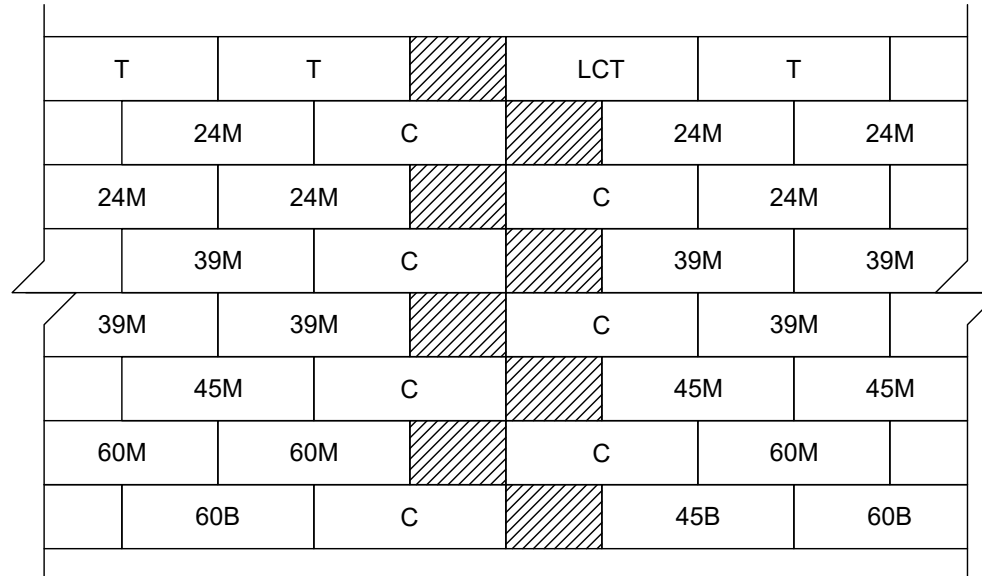
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DRAWING #115

OUTSIDE CORNER DETAIL (60" TO 84" BLOCKS)

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OUTSIDE CORNER
STA. XX.XX



NOTE: THE PARTIAL PROFILE SHOWN ABOVE IS INTENDED AS A REFERENCE TO DEPICT THE PROPER WAY TO DRAW AN OUTSIDE CORNER, IN PROFILE VIEW, FOR A RECON WALL. THE BLOCK DESIGNATIONS SHOWN ARE FOR REFERENCE ONLY AND ARE NOT INTENDED TO SERVE AS AN ENGINEERED SECTION.

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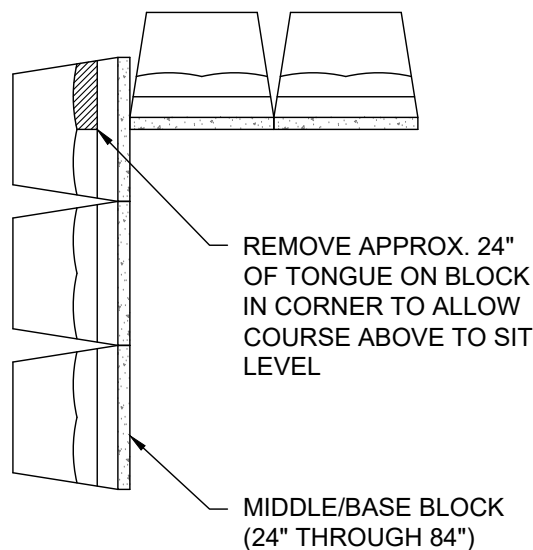
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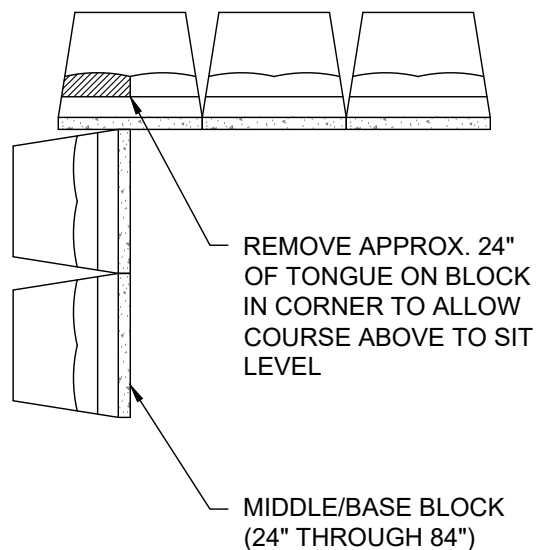
DRAWING #116

**OUTSIDE CORNER
EXAMPLE PROFILE**

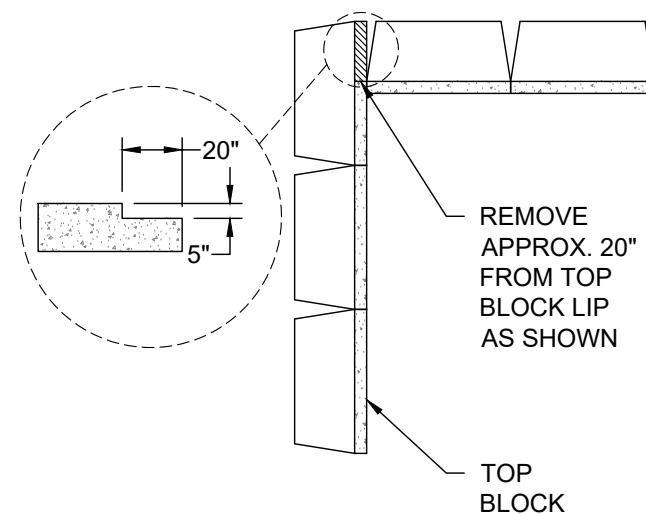
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ODD ROW



EVEN ROW



TOP ROW

NOTE: IT IS RECOMMENDED WHEN BUILDING AN INSIDE 90° CORNER THAT ONCE THE BASE ROW OF THE INSIDE CORNER IS SET, THE CONTRACTOR SHOULD START EACH SUBSEQUENT ROW AT THE CORNER AND LAY THE BLOCK IN BOTH DIRECTIONS OUT FROM THE CORNER. THE STANDARD RECON BLOCK WILL SET BACK 1" FOR EACH ROW PLACED ABOVE THE BASE COURSE. THIS WILL HAVE TWO DIFFERENT EFFECTS ON THE FINISHED WALL. FIRST, AT THE POINT OF THE 90° CORNER, THE WALL WILL NOT BE VERTICAL, BUT RATHER THE ACTUAL LINE AT THE CORNER WILL BE LAYING BACK AT THE SAME 3.6° OF BATTER AS THE FACE OF EACH OF THE SIDES OF THE WALL THAT COME TOGETHER AT THE CORNER. SECOND, AS EACH NEW ROW OF BLOCK IS PLACED AT THE CORNER, THE BLOCK WILL BE SET BACK NOT ONLY 1" ALONG THE VERTICAL AXIS BUT ALSO WILL BE PLACED 1" INSIDE TOWARD THE CORNER ALONG THE HORIZONTAL AXIS. IF YOU WERE TO FOLLOW THE SECOND ROW OF BLOCK OUT FROM THE CORNER, YOU WOULD SEE THAT THE END OF THIS ROW OF BLOCK IN THE WALL IS 1" SHORTER IN THE HORIZONTAL / LINEAL DIRECTION THAN THE BASE ROW. THE THIRD ROW OF BLOCK WILL BE 2" SHORTER IN THE HORIZONTAL / LINEAL DIRECTION THAN THE BASE ROW, AND SO ON. FOR TALLER WALLS, YOU MAY NOTICE THAT THE RUNNING BOND IS SLIDING OFF CENTER BY 1" FOR EVERY OTHER COURSE. THIS IS AN AESTHETIC ISSUE AND DOES NOT EFFECT THE STRUCTURAL PERFORMANCE OF THE WALL.

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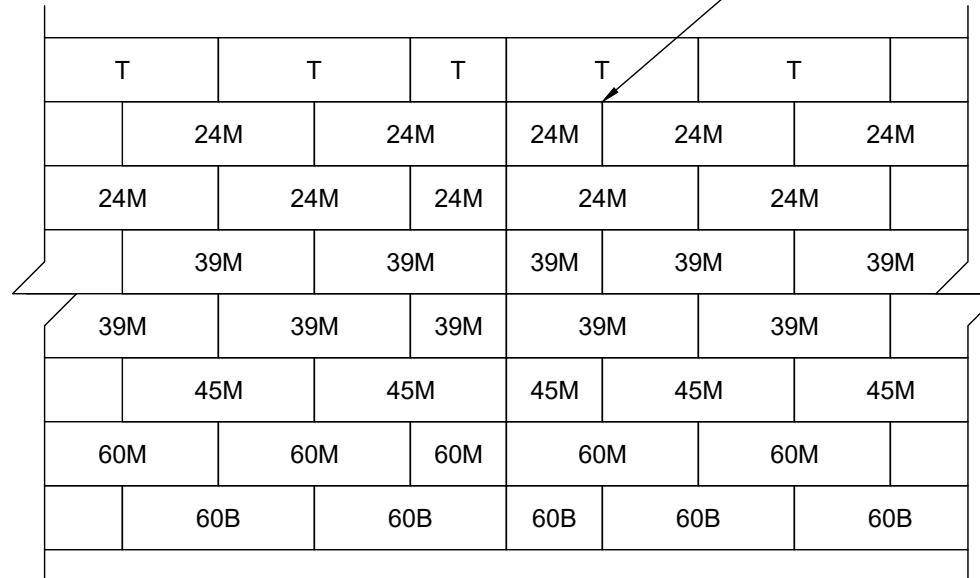
DRAWING #117

INSIDE CORNER DETAIL

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INSIDE CORNER
STA. XX.XX

BLOCK SHOWN IS ACTUALLY FULL BLOCK,
48-INCHES WIDE, WITH 24-INCHES BURIED
IN GRADE, TYP.



NOTE: THE PARTIAL PROFILE SHOWN ABOVE IS INTENDED AS A REFERENCE TO DEPICT THE PROPER WAY TO DRAW AN INSIDE CORNER, IN PROFILE VIEW, FOR A RECON WALL. THE BLOCK DESIGNATIONS SHOWN ARE FOR REFERENCE ONLY AND ARE NOT INTENDED TO SERVE AS AN ENGINEERED SECTION.

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DRAWING #118

**INSIDE CORNER
PROFILE EXAMPLE**

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NOTE: WHEN BUILDING A WALL WITH TWO OUTSIDE 90° CORNERS, EACH ROW WILL NEED TO BE 2" SHORTER THAN THE ROW BELOW, STARTING AT THE ROW ABOVE THE BASE COURSE, TO ACCOUNT FOR THE 1" SETBACK BUILT INTO THE BLOCK. USE OF FITTING BLOCKS, AS SHOWN BELOW, IS RECOMMENDED TO SAVE TIME IN CUTTING BLOCK.

RIGHT CORNER TOP	TOP BLOCK	TOP BLOCK	TOP BLOCK	TOP BLOCK	<u>TOP BLOCK CUT TO 42" LENGTH</u>		LEFT CORNER TOP
CORNER BLOCK		MIDDLE BLOCK	MIDDLE BLOCK	MIDDLE BLOCK	<u>FITTING BLOCK CUT TO 44" LENGTH</u>		CORNER BLOCK
CORNER BLOCK	MIDDLE BLOCK	MIDDLE BLOCK	MIDDLE BLOCK	MIDDLE BLOCK	<u>FITTING BLOCK CUT TO 46" LENGTH</u>		CORNER BLOCK
CORNER BLOCK		BASE BLOCK	BASE BLOCK	BASE BLOCK	BASE BLOCK		CORNER BLOCK

DOUBLE OUTSIDE 90° CORNER
PROFILE VIEW

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DRAWING #119

OUTSIDE CORNER DETAIL
DOUBLE 90°

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NOTE: WHEN BUILDING A WALL WITH ONE OUTSIDE 90° CORNER THAT ABUTS TO A VERTICAL STRUCTURE, EACH ROW WILL NEED TO BE 1" SHORTER THAN THE ROW BELOW, STARTING AT THE ROW ABOVE THE BASE COURSE, TO ACCOUNT FOR THE 1" SETBACK BUILT INTO THE BLOCK. USE OF FITTING BLOCKS, AS SHOWN BELOW, IS RECOMMENDED TO SAVE TIME IN CUTTING BLOCK.

RIGHT CORNER TOP	<u>TOP BLOCK CUT TO 45" LENGTH</u>	TOP BLOCK	TOP BLOCK	TOP BLOCK	TOP BLOCK	HALF TOP BLOCK	VERTICAL STRUCTURE
CORNER BLOCK	<u>FITTING BLOCK CUT TO 46" LENGTH</u>	MIDDLE BLOCK	MIDDLE BLOCK	MIDDLE BLOCK	MIDDLE BLOCK		
CORNER BLOCK	<u>FITTING BLOCK CUT TO 47" LENGTH</u>	MIDDLE BLOCK	MIDDLE BLOCK	MIDDLE BLOCK	MIDDLE BLOCK	HALF BLOCK	
CORNER BLOCK	BASE BLOCK	BASE BLOCK	BASE BLOCK	BASE BLOCK	BASE BLOCK		

SINGLE OUTSIDE 90° CORNER ABUTTING TO VERTICAL STRUCTURE
PROFILE VIEW

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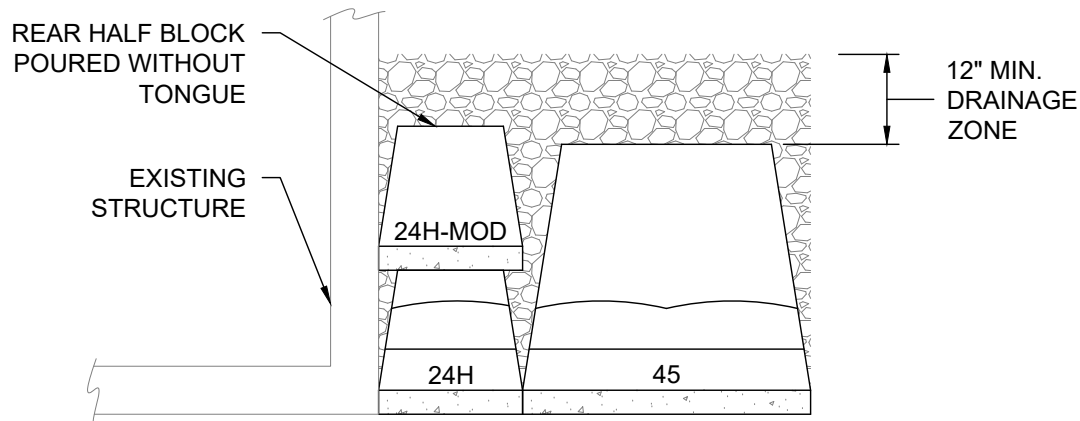
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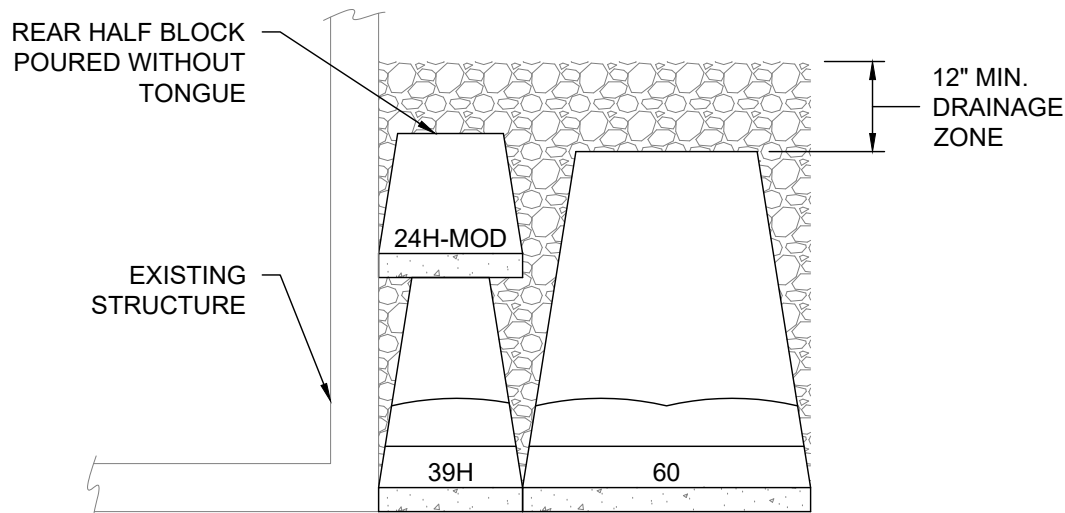
DRAWING #120

OUTSIDE CORNER DETAIL
SINGLE 90° VERTICAL ABUTMENT

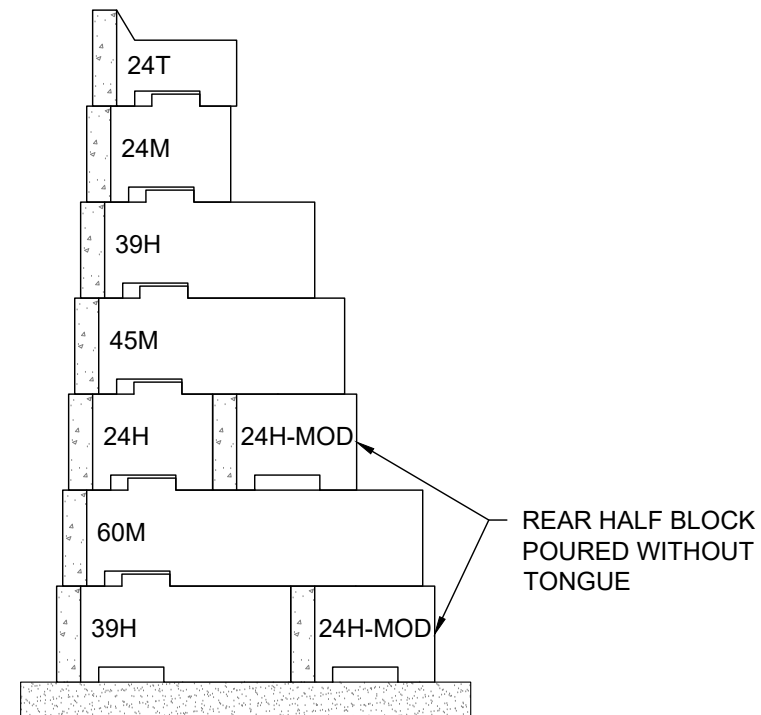
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DOUBLE STACKED HALF BLOCKS - 45" DEEP BLOCKS
PLAN VIEW



DOUBLE STACKED HALF BLOCKS - 60" DEEP BLOCKS
PLAN VIEW



DOUBLE STACKED HALF BLOCKS - FB60
SECTION VIEW

NOTE: WHEN DOUBLE STACKING HALF BLOCKS, THE HALF BLOCK SHALL BE CAST WITH THE LIFTING LOOP RECESSED FULLY INTO THE TOP OF THE BLOCK OR REMOVED IN THE FIELD AS REQUIRED. THE REAR BLOCK SHALL BE CAST WITHOUT A TONGUE IF THE TONGUE WILL PREVENT THE BLOCK ABOVE FROM RESTING ON A LEVEL SURFACE.

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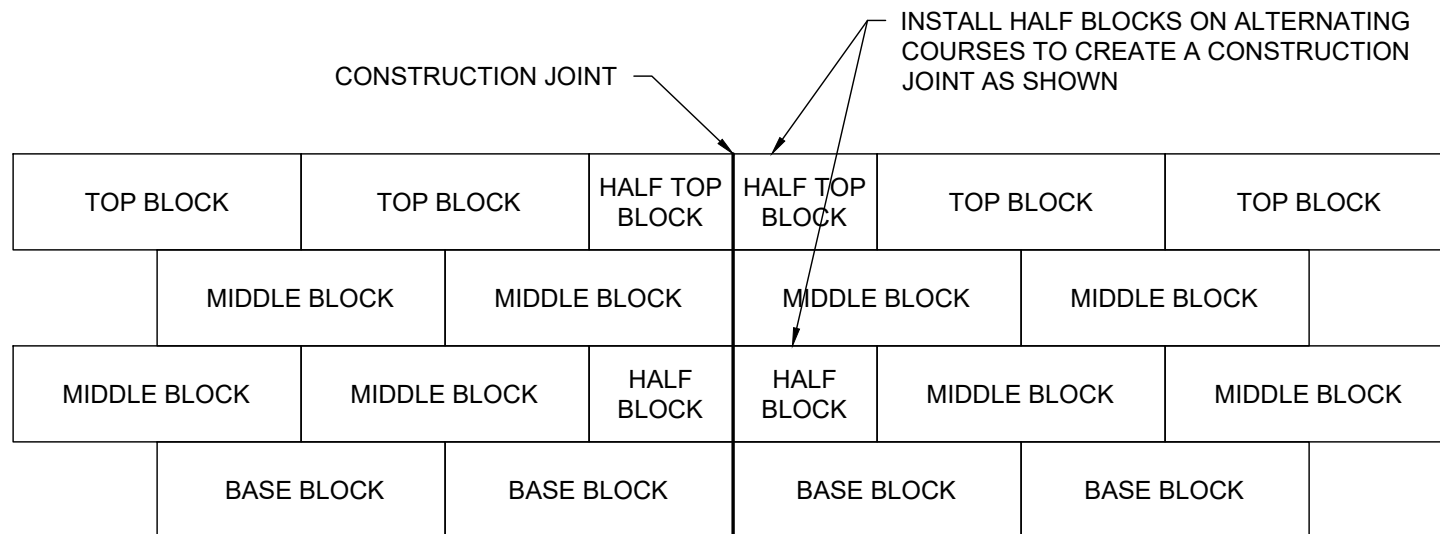
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DRAWING #121

DOUBLE STACKED
HALF BLOCKS

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CONSTRUCTION JOINT DETAIL
PROFILE VIEW

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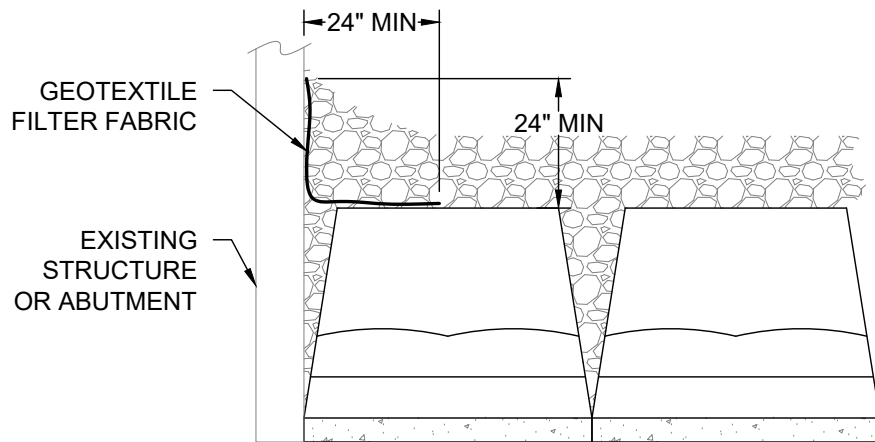
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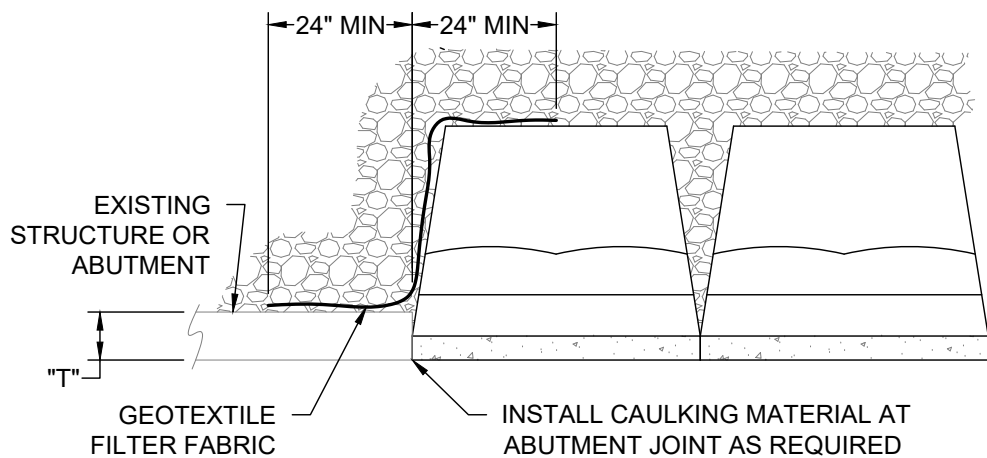
DRAWING #122

CONSTRUCTION JOINT DETAIL

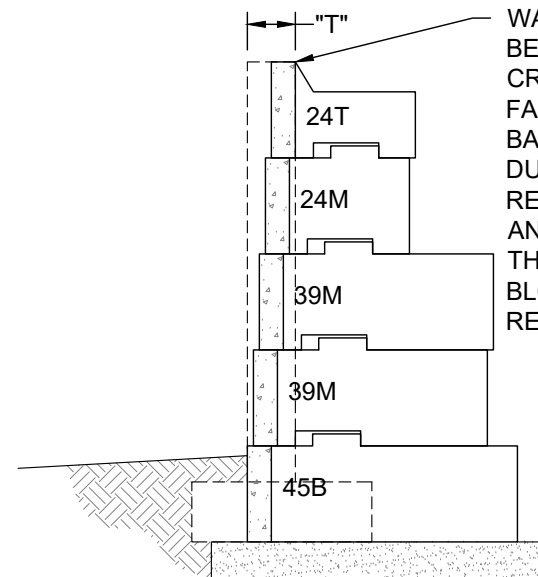
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**PERPENDICULAR ABUTMENT
PLAN VIEW**



**PARALLEL ABUTMENT
PLAN VIEW**



**PARALLEL ABUTMENT
SECTION VIEW**

WALL THICKNESS "T" SHOULD BE SUCH THAT A GAP IS NOT CREATED BETWEEN THE FACE OF THE BLOCK AND THE BACK OF THE VERTICAL WALL DUE TO THE BATTER OF THE RECON WALL. IF GAPPING IS ANTICIPATED INCREASE WALL THICKNESS "T" OR MOVE BLOCK WALL FORWARD AS REQUIRED.

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DRAWING #123

**WALL ABUTTING TO
EXISTING STRUCTURE**

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