BILL OF MATERIAL - FOUNDATION CONTRACTOR

QUANTITIES SHOWN ARE ACTUAL QUANTITIES — NO ALLOWANCES MADE FOR BREAKAGE, DAMAGE OR OTHER DISCREPANCIES

SCAFFOLDING - SHORING TEMPORARY BRACING - MATERIAL HOUSING PROTECTIONS, COVERINGS - NOT INCLUDED.

CONTRACTOR'S SHALL REPORT ANY DIFFERENCE TO ENGINEER - THIS BILL OF MATERIAL IS PREPARED TO AID THE CONTRACTOR TO PRESENT HIS BID. HE SHALL ADD OR DELETE QUANTITIES IN ERROR

ITEM	WHERE USED	DESCRIPTION	STEEL OR REINFORCING	CONCRETE	MASONRY	OTHER ITEMS — NOTES
SEPTIC TK FOOTING	SEPTIC TANK NORTH & SOUTH EXTERIOR WALLS	10"x16" - 37.6 LIN.FT	MK 303 FOOTING MK 425-440 FT	2.5 CU. YDS 17.0 CU. YDS		316 SQ.FT. FLEY TWO SYPHONS & CAST IRON TEES
FOOTING	NORTH WALL - BOILER HOUSE	10"x18" - 26 LIN.FT	MK 425-56 FT	1.5 " "		
FOOTING	EAST WALL - EXTERIOR	10"x18" - 68 LIN.FT	MK 425-198 FT	3.2 " "		
"	WEST " "	10"x18" - 65 LIN.FT	MK 425-146 FT	3.2 " "		
"	NORTH WALL OF CORRIDOR	10"x16" - 156 "	MK 425-360 "	7.0 " "		
"	WEST WALL OF BOILERRM	10"x16" - 26 "	MK 425-56"	1.5 " "		
"	EAST WALL OF HOBBY & HEALTH	10"x16" - 66 "	MK 425-146"	3.2 " "		
"	NORTH WALL OF OFFICE HEALTH	10"x16" - 28 "	MK 425-60 FT	1.5 " "		
"	WEST WALL BOYS WASH RM	10"x16" - 25" "	MK 425-56 FT	1.4 " "		
"	NORTH ENTRANCE STAIRWAY	2'-8" DEEP x 10" - 24 "	MK 425 96 FT	2.3 " "		
"	EAST ENTRANCE "	2'-8" DEEP x 10" - 24 "	MK 425 96 FT	2.3 " "		
FTG. & BRICK	CHIMNEY	5'-6"x 5'-6"x 1'-3" FTG	MK 426 (SEE DET)	1.5 " "	720 COM. BRICK	THIS CONTRACTOR BUILDS CHIMNEY & BASE FOOTING ONLY
FTG & PIERS	16 REQ'D AT POINTS MARKED (1)	16"x2'-8"x 9'-5" PIERS & FTG.	MK 202, 421 426, 434, 424 (SEE DETAIL)	11.0 " "		64 ANCHOR BOLTS 3/4"x 12"-2"
FTG & COLS.	7 REQ'D AT POINTS MARKED (2)	6'-2"x 14" 1'-7 1/8" COL. & FTG.	(MK 201, 419 420, 610 & 611 (SEE DETAIL)	7.0 " "		14 ANCHOR BOLTS 3/4"x 16" - 2" - 1 & 7 PLATES (P1) (SEE DETAIL) — FOUNDATION CON. TO BUILD THIS WALL. CONTR. TO INSERT ANCHOR BOLTS & SUPPLY AND FASTEN PLATES
FTG & PIER	3 REQ'D AT POINTS MARKED (3)	6'-2" x 3'-4" (BLOCK) & FTG 6"	MK 437 & 428 (SEE DETAIL)	0.7 " "	24 - 8"x 8"x 16" SAND & GRAVEL BLOCKS	FOUNDATION CONTRACTOR TO BUILD PIERS MARKED (3) TO TOP OF FLOOR ONLY
FTG & COLS.	12 REQ'D AT POINTS MKD (4)	3'-4" x 3'-4" x 10" FTG 8" x 16" COLS	MK 429 (SEE DETAIL)	5.3 " "	120 8" BALL SAND & GRAVEL BLOCKS	FOUNDATION CONTRACTOR TO BUILD COLS TO TOP OF FLOOR ONLY
FTG & PIERS	BOILER SETING	1'-6" x 4'-10" PIER FTG 8" x 1'-6" PIER	NONE	1.0 " "		
DUMP BASE SPLASH BLKS FOUND. WALKS	BOILER ROOM EXTERIOR OF BLDG	5'-0" x 3'-0" x 1'-6" SEE SHEETS 2, 8, 5	NONE NONE	.6 " " 13.6 " "	4 ANCHOR BOLTS (4-2)	FOUNDATION CONTRACTOR TO CONSULT WELL CONTRACTOR)
FTG & PIER	EAST SIDE CANOPY POST	2'-0" x 2'-0" x 1'-0" FTG & 16"x16" x 2'-8"	NONE	0.4 " "	2 ANCHOR BOLTS (4-2)	
EAST STAIRS & LANDING - EAST SIDE		14'-4" x 9'-6" AREA	MK 425 - 50 FT ALSO 150 SQ FT 6" x 6" x 10 GA WIRE MESH	3.5 " "		
NORTH (TAIRS & LANDING	NORTH WEST CORNER)	9'x 20'-AREA	MK 425 - 160 FT 4200 - 180 SQ FT 6" x 6" x 10 GA WIRE MESH	4.0 " "		
CONCR. FLOOR	BOILER HOUSE	24'-8" x 25'-0" x 0'-5"	630 SQ FT REINFORCING W.W.M. 6" x 6" x 10	10.0 " "	BITUM. EXPANTION JOINT	
CONCR FLOOR ZONOLITE OR EQUAL	3'-0" WIDE STRIP ENTIRE PERIMETER OF BLDG	3" THICK - 1320 SQ FT	1350 SQ FT 6" x 6" x 10	13.0 CU. YARDS "ZONOLITE CONC.	7 - ROLLS - 15" RUBB FELT & TAR BITUMINOUS EXP. JOINT	
	3'-0" WIDE - TOPPING	2" THICK - 1320 SQ FT		4.5 CU. YARDS CONCRETE		
CONCR FLOOR	REMAINDER OF BLDG	5" THICK 9642 SQ FT	10,000 SQ FT 6" x 6" x 10 GA	154 CU. YARDS	BITUMINOUS EXP. JOINT 418 FELT	THIS CONTRACTOR TO LAY FELT TAR PAPER & COVER AREA AS POURED
FDN WALL (EXTERIOR)	SOUTH SIDE OF BLDG - TOP FTG TO TOP OF FLOOR)	8" BLOCK & 4" BLOCK ATTACH OR ABOVE 4" BLOCK - ABOVE GRADE SEE DETAILS			596 - 8"x 8"x 16" 460 - 4"x 8"x 16" 100 COM. BRICK	4 - RODS - 8"x 8"x 16" BLOCK 3 - ROWS - 4"x 8"x 16" BLOCK BRICK AT UNIT VENTILATORS AS SHOWN - SHEET 13
FOUNDATION WALL (EXTERIOR)	NORTH SIDE OF BLDG (TOP FTG TO TOP OF FLOOR)	SAME AS SOUTH WALL			536 - 8"x 8"x 16" & 4" GRAVEL 460 - 4"x 8"x 16" 100 COM. BRICK	SAME NOTE AS ABOVE
FDN WALL (EXTERIOR)	EAST WALL - TOP OF FTG TO BE AT POINT LEVEL WITH GLASS ROOMS FLOOR)	8" BLOCK 2'-8" ABOVE FTG 4" BLOCK TO MATCH			264 - 8"x 8"x 16" 138 - 4"x 8"x 16	SAME NOTE AS ABOVE
FDN WALL (EXTERIOR)	WEST WALL - SAME AS ABOVE	SAME AS ABOVE			216 - 8"x 8"x 16 167 - 4"x 8"x 16	SAME NOTE AS ABOVE
FDN WALL (INTERIOR)	WEST WALL OF BOILER RM.	5 TIERS - 8"x 16" BLOCKS ABOVE FTG			100 - 8"x 8"x 16	
FDN WALL (INTERIOR)	WEST WALL OF BOYS TOILET	5 TIERS - 8"x 8"x 16" BLOCKS ABOVE FTG			100 - 8"x 8"x 16"	
FDN WALL	EAST WALL OF WEST GLASS ROOMS	SAME AS ABOVE			235 - 8"x 8"x 16"	
FDN WALL	29' LENGTH SHOWN IN DETAIL 5-5 (SHEET 5	SAME AS ABOVE			106 - 8"x 8"x 16"	
CONCRETE BEAMS	1 - (CB-1) 1 - (CB-3) 1 - (CB-4) 2 - (CB-5) 4 - (CB-3) 2 - (CB-7)	REINFORCED CONCRETE BEAMS	MK - 302, 601 602, 603, 604 605, 606, 614 (SEE DETAIL)	10 CU. YARDS		THESE BEAMS ARE TO BE FABRICATED BY FOUNDATION CONTRACTOR AND LEFT FOR SETTING UP BY STEEL ERECTION CONTRACTOR
CONCRETE LINTELS	15 - (CL-1) 8 - (CL-2) 1 - (CL-3) 2 - (CL-4) 1 - (CL-5)	1 - (CL-6) 1 - (CL-7) 1 - (CL-8) 1 - (CL-9) 1 - (CL-10) 2 - (CL-11)	REINFORCED CONCRETE LINTELS	MK - 301 AND 610, 612 AND 612, 613 (SEE DETAIL)	14 CU. YARDS	SAME NOTE AS ABOVE

STEEL SCHEDULE OF REQUIREMENTS BY FOUNDATION CONTRACTOR

DIVISION - (C)

MK.	NO. REQ'D	DESCRIPTION	WHERE USED	WEIGHT	NOTES
201	105	1/4" TIES	7 COLS. MARKED (2)	107	SEE DETAIL SH."
202	64	1/4" "	16 - PIERS " (1)	72	" " "
301	271	3/8" ø STIRRUPS	LINTELS (CL-1) (CL-2) (CL-6)	302	" " "
302	80	3/8 ø STIRRUPS	BEAMS (CB-1) (CB-2) (CB-4)	152	" " "
303	1100 LIN. FT.	3/8 ø STOCK SIZE -	SEPTIC TANK (C.S. 5)	418	NO DETAILS SEPTIC TANK RODS
401	30	1/2" ø RODS x 12'-0" L.	LINTELS (CL-1)	247	
402	36	" " x 12'-6 1/2" "	(CL-1)	257	
403	24	" " x 2'-9" "	(CL-1) & (CL-3)	66	
404	62	" " x 3'-10 3/4" "	(CL-2)	169	
405	16	" " x 12'-10" "	(CL-2)	142	
406	18	" " x 13'-4" "	(CL-2)	144	
407	2	" " x 10'-6 1/2" "	(CL-3)	15	
408	2	" " x 11'-0 1/2" "	(CL-3)	16	
409	4	" " x 10'-7 1/2" "	(CL-4)	28	
410	4	" " x 10'-7 1/2" "	(CL-4)	29	
411	2	" " x 8'-9 3/4" "	(CL-5)	14	
412	2	" " x 10'-3 3/4" "	(CL-5)	15	
413	2	" " x 2'-5" "	(CL-6)	17	
414	2	" " x 2'-11" "	(CL-6)	19	
415	1	" " x 3'-6" "	(CL-6)	9	
416	3	" " x 9'-10" "	(CL-7)	20	
417	4	" " x 6'-1 1/2" "	(CL-8)	24	
418	3	" " x 7'-3" "	(CL-9)	15	
419	21	" " x 9'-3" "	COL. (2)	61	
420	21	" " x 2'-3" "	MARK (2)	30	
421	32	" " x 2'-3" "	" (1)	92	
422	64	" " x 2'-7" "	" (1)	113	
423	96	" " x 2'-2" "	" (1)	144	
424	96	" " x 4'-4" "	" (1)	280	
425	2000 LIN. FT.	" " STOCK LENGTH	FOOTINGS	3040	NO. STEEL DETAIL
426	2	1/2 ø x 5'-9"	CHIMNEY	49	
427	9	1/2 " x 2'-6"	COL. (3)	16	
428	12	" x 1'-6"	" (5)	17	
429	120	" x 2'-10"	" (5)	262	
601	2	1/4" x 12'-3"	BEAM (CB-1)	38	
602	3	" x 13'-5 1/2"	(CB-1)	41	
603	32	" x 3'-3 3/4"	(CB-1) (CB-2) (CB-4) (CB-5)	35	
604	2	" x 11'-7"	(CB-2)	40	
605	2	" x 12'-2 1/2"	(CB-2)	129	
606	6	" x 14'-3"	(CB-4)	144	
607	6	" x 15'-7 1/2"	(CB-4)	126	
608	6	" x 13'-11"	(CB-5)	138	
609	6	" x 15'-3 1/2"	(CB-5)	192	
610	42	" x 4'-6"	COL. MARKED (2)	894	
611	42	" " x 4'-6"	" " "	47	
612	4	" "	CL-12	69	
613	8	" x 5'-8 3/4"	(CL-11)	216	
614	16	" x 8'-10 1/4"	(CB-3)	65	
615	4	" x 10'-7"	(CB-6)	119	
616	8	" x 9'-6 3/4"	(CB-7)		

TOTAL 8694 LBS

SUMMARY OF REQUIREMENTS FOR FOUNDATION CONTRACTOR:

(1) CONCRETE	390	CU. YARDS
(2) INSULATING CONCRETE	13	CU. YARDS
(3) COMMON BRICK	1000	
(4) 8"x 8"x 16" SAND & GRAVEL BLOCK	2300	
(5) 4"x 8"x 16" " " " "	1240	
(6) REINFORCING RODS	8694	LBS
(7) 6"x 6" x 10" x 10 MESH	12,280	SQ. FT.
(8) ANCHOR BOLTS (4-2)	90	
(9) ANCHOR BOLTS (4-1)	4	
(10) 15# FELT	40	ROLLS
(11) 1/2" x 6" BITUMINOUS EXPANSION JOINT STRIPS	1,500	LINEAL FT.
(12) MASONRY MORTAR (1 BAG TO 40 BLOCKS) (4 1/2 BAGS TO 1000 BRICK)	9.5	BAGS MASONRY MORTAR
(13) MASONRY SAND		CU. YARDS
(14) FLEXICORE FOR SEPTIC TANKS	216	SQ. FT.
(15) SYPHONS & T IN CONNECTION WITH SEPTIC TANK	AS SHOWN ON PRINTS	
(16) SPLASH BLOCKS AND WALKS SECRETE (CONCRETE IN FIGURE ABOVE)		

NOTE: THIS BILL OF MATERIAL DOES NOT INCLUDE FORMS FOR LUMBER, NAILS, WIRE TIES, RE-INFORCING ROD CHAIRS & SADDLES, STAKES, CHORING, SCAFFOLDING, BRACING, MATERIAL HOUSING, COVERING OR PROTECTIONS.

FOUNDATION CONTRACTOR TO SUBMIT SEPARATE BID

LIBERTY SCHOOL
BILL OF MATERIAL FDN. CONTR

CHESTER L. STEMP
Structural and Design Engineer
Chesterton, Indiana

SHEET 8 OF 21

5-20-52