

THE KAPLAN-BOCK RESIDENCE
4916 BELT ROAD NW
WASHINGTON, DC 20016

STRUCTURAL FRAMING – CRITICAL INSPECTION ITEMS

- [illegible]

GENERAL CODE REQUIREMENTS

- No inspection will be made unless an approved set of plans is on the job. The following items must be made to the approved plans without prior approval of the Building Plan Review Board:
- (1) All structural members are to be made of steel, except for the joists, girders, steel structure or shear of one of a structure for which a design permit is required.
 - (2) Submit 3 copies of truss fabricating shop details for approval of the Building Plan Review Board.
 - (3) All members shall have engineering framing plans for all footings, columns, beams, and joists.
 - (4) All members shall have engineering details for all connections, interior floor to permit expansion and/or recess, where edges of members are not parallel to the face of the member, and where the floor and steel shall provide not less than 5/8" square steel plate with not less than 4 bolts, spaced at 12" and 20" wide.
 - (5) Joists 7'-6" clear ceiling height for habitable rooms.
 - (6) Safety doors are required in the following locations:
 - (a) Stairways
 - (b) In food pantries with glazed area more than 8 square feet, and the lowest 18" of the door shall be solid.
 - (c) In rooms floor level or walking surface within 30" of the exterior door.
 - (7) All doors shall be solid, wood, heavy duty, metal flues, and shall have a locking device.
 - (8) All doors shall be self-closing.
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MINIMUM UNIFORM, Y DISTRIBUTED LIVE LOADS (IN POUNDS PER SQUARE FOOT)	
DESIGN ALL AREAS FOR 4000 LBS LOAD	
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA	
GROUND SNOW LOAD	30 PSF
WIND SPEED, 3-SEC GUST	90 MPH
FROST LINE DEPTH	50" BELOW GRADE
GENERAL LEGEND	
P.T. - PRESTRESS TREATED	
C.M. - CONCRETE MASONRY UNIT	
O.C. - ON CENTER	
C.C. - CENTER LINE	
 FLOOR PLAN FRAMED WALL	
 FLOOR PLAN CM FOUNDATION WALL	
 FLOOR PLAN BRICK VENEER	
 CM FOUNDATION WALL	
 GRAVEL	
 CONCRETE	

Additional Notes:

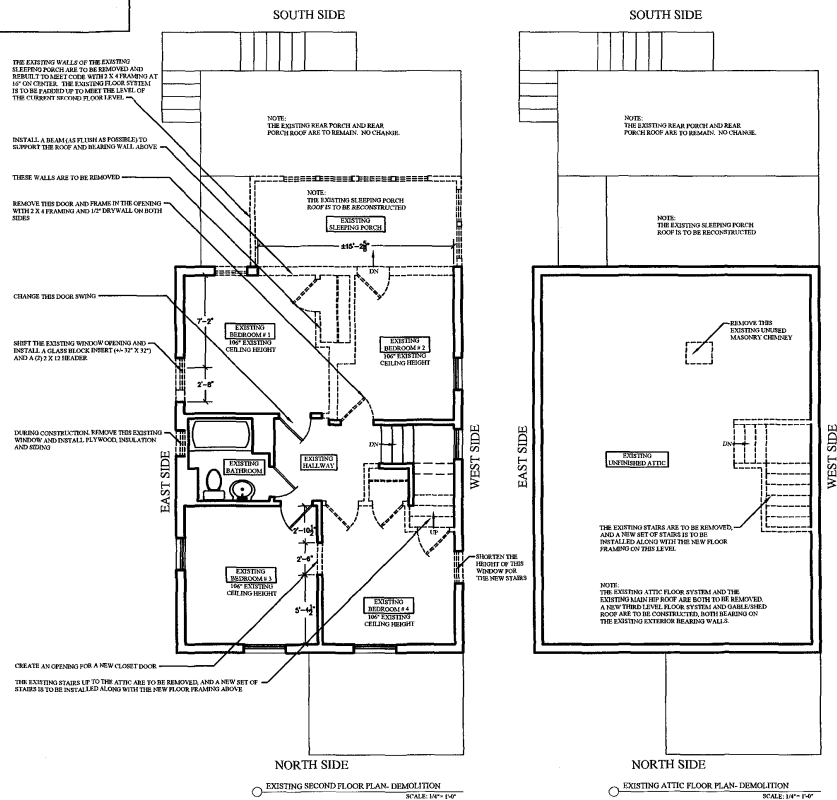
1. All New construction is to comply with IRC 2006, with DCMR12-2008 supplement and IEBC2006 with DCMR12J-2008 supplement.
2. Use Group: R3
3. Construction Type: SB5 (construction for a single family dwelling)
4. Foundation: Footing of building structural elements (interior and exterior bearing and non-bearing walls, floor and roof construction) for existing construction and new addition: Zero Hours
5. Sprinkler System: There is no sprinkler system for this detached single family dwelling
6. Smoke Detection System: Install hardwired, interconnected smoke detectors on a separate circuit with a battery powered backup
7. In the absence of a geotechnical report, use 150 PSF design bearing capacity for clayey foundation

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- 1 OF 8 COVER SHEET AND DEMOLITION
- 2 OF 8 EXTERIOR ELEVATIONS-DEMOLITION
- 3 OF 8 FRAMING PLANS AND DETAILS
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- 5 OF 8 PROPOSED FLOOR PLANS AND ELECTRICAL
- 6 OF 8 PROPOSED EXTERIOR ELEVATIONS
- 7 OF 8 WIND BRACING DETAILS
- 8 OF 8 WIND BRACING DETAILS

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2013 MAY 23 PM 12:30

[illegible]

OWNER:
C. L. FORBRICH
RESIDENTIAL DESIGN, INC.
22003 TAIL RACE ROAD
ALDIE, VIRGINIA 20105
703-777-9872

CLIENT: THE KAPLAN-BOCK RESIDENCE
4916 BELT ROAD NW
WASHINGTON, DC 20016

DATE:	5/14/2013
SCALE:	AS SHOWN
SHEET TITLE:	COVER SHEET AND DEMOLITION
SHEET NUMBER:	1 OF 8

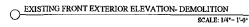
~~BOARD OF ZONING ADJUSTMENT~~

District of Columbia

CASE NO. 1

EXHIBIT NO.

2013 MAY 23 PM 12: 30



DESIGNER:
C. L. FORBRICH
RESIDENTIAL DESIGN, INC.
22003 TAIL RACE ROAD
ALDIE, VIRGINIA 20105
703-777-9872

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WASHINGTON, DC 20016

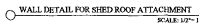
DATE: 5/14/2013

SCALE:
AS SHOWN

SHEET TITLE:
EXTERIOR
ELEVATIONS-
DEMOLITION

SHEET NUMBER:

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[illegible]

11' 0" TR RESIDENTIAL FLOOR SPANS			14' 0" TR RESIDENTIAL FLOOR SPANS		
SERIES	12" O.C.	16" O.C.	SERIES	12" O.C.	16" O.C.
110	19'-6"	17'-10"	110	22'-2"	20'-3"
115	20'-0"	18'-4"	210	23'-3"	21'-3"
230	21'-0"	19'-2"	230	23'-10"	21'-9"
360	22'-11"	20'-11"	360	26'-0"	23'-8"
560	26'-1"	23'-8"	560	29'-6"	26'-10"

A. L. FORBRICH
CENTRAL DESIGN, INC.
3 TAIL RACE ROAD
E, VIRGINIA 20105
703-777-9872

DATE: 5/14/2013

FRAMING
PLANS

SHEET NUMBER:

3 OF 8

2013 MAY 23 PM 12:30

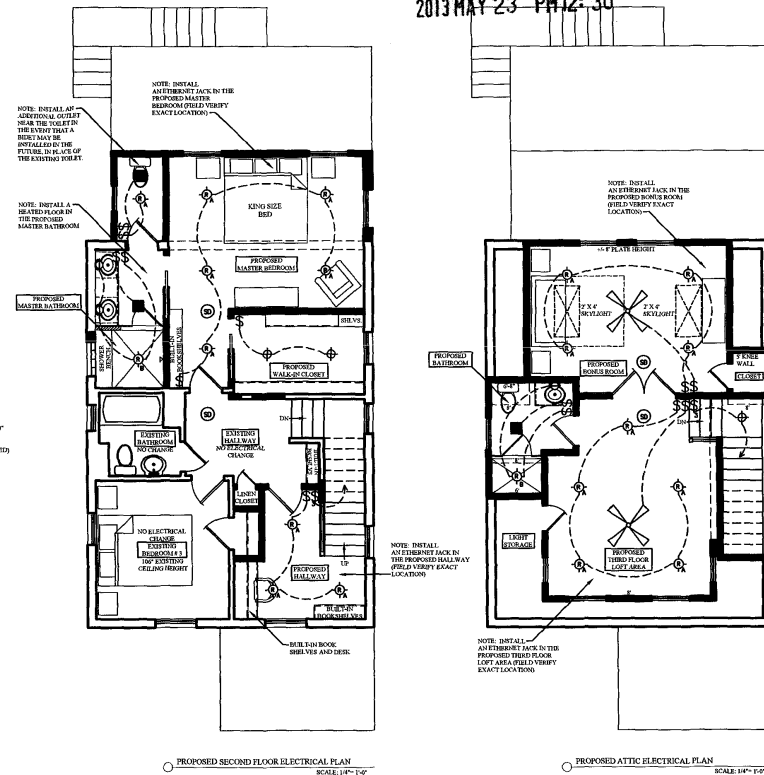
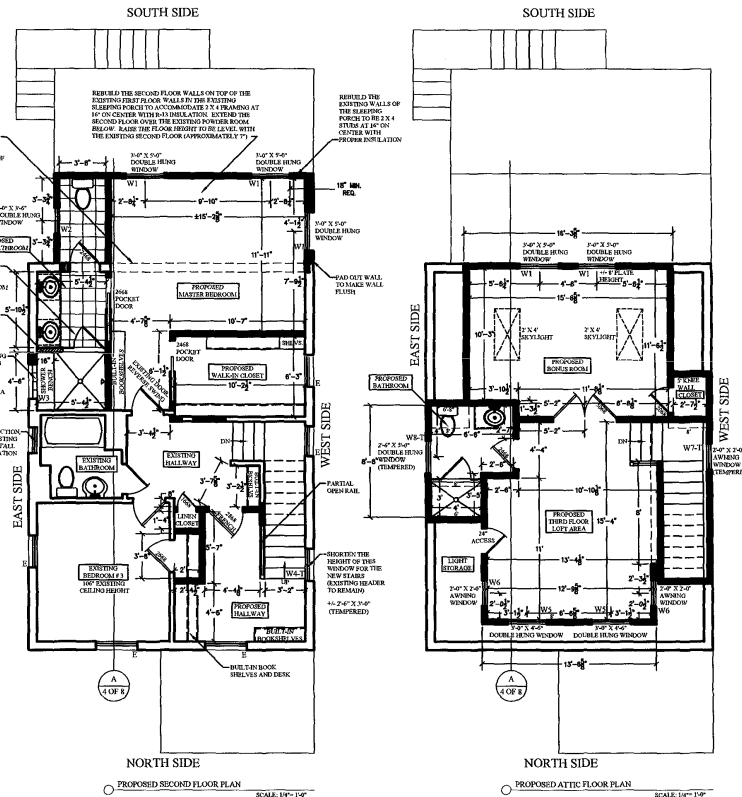


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NOTE:
-ALL EXISTING AND PROPOSED DIMENSIONS MUST BE FIELD VERIFIED DURING CONSTRUCTION
-DIMENSIONS ARE FINISHED DIMENSIONS, NOT FRAMED DIMENSIONS



WINDOW SCHEDULE					
QTY	SYMBOL	MANUFACTURER	WINDOW TYPE	UNIT DIMENSION	NOTES
5	W1	?	DOUBLE HUNG	24" X 36"	
1	W2	?	DOUBLE HUNG	24" X 36"	
1	W3	?	GLASS BLOCK INSERT	16" X 12" H&V	FIELD VERIFY EXACT SIZE, NOTE: SHOWER LOCATION
1	W4	?	TEMPERED DOUBLE HUNG	48" X 24" X 3/4"	TEMPERED FOR STAIRWELL LOCATION, FIELD VERIFY EXACT SIZE
2	W5	?	DOUBLE HUNG	24" X 48"	
2	W6	?	AWNING	24" X 24"	
1	W7	?	TEMPERED AWNING	24" X 24"	TEMPERED FOR STAIRWELL LOCATION
1	W8	?	TEMPERED DOUBLE HUNG	24" X 36"	TEMPERED FOR BATHROOM LOCATION

E - EXISTING WINDOW
ALL WINDOW ROUGH OPENING DIMENSIONS MUST BE VERIFIED PRIOR TO FRAMING

ELECTRICAL SYMBOLS AND NOTES	
- SINGLE-POLE SWITCH - THREE-WAY SWITCH - EXHAUST FAN - CEILING MOUNTED FIXTURE - RECESSED LIGHT - RECESSED LIGHT/CLONED LENS - SURFACE MOUNTED LIGHT - DOUBLE-HEAD FLOOD LIGHT - SMOKE DETECTOR - CEILING FAN	GENERAL PURPOSE RECEPTACLE DISTRIBUTION IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, REC. RM., BATH, RECREATION ROOM, OR SLEEPING PORCH OR AREA OF DWELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED IN ACCORDANCE WITH THE GENERAL PROVISIONS SPECIFIED IN SECTIONS 210.1 THROUGH 210.13 OF THE NEC 2008. OUTLETS SHALL BE PLACED SO THAT NO LOCATION ALONG THE FLOOR WALL LINE IS MORE THAN SIX FEET FROM AN OUTLET. AT LEAST ONE WALL RECEPTACLE OUTLET SHALL BE INSTALLED IN BATHROOMS AND SUCH OUTLET SHALL BE LOCATED WITHIN 6 INCHES OF THE OUTSIDE EDGE OF EACH LAVATORY BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL THAT IS ADJACENT TO THE LAVATORY BASIN LOCATION. THESE RECEPTACLE OUTLETS MUST HAVE GROUND-Fault CIRCUIT-INTERUPTER PROTECTION. ALL RECEPTACLE OUTLETS INSTALLED IN THE GARAGE, ATTIC, ALCOVE, LAUNDRY ROOM, UTILITY, AND BATH AREAS MUST ALSO HAVE GROUND-Fault CIRCUIT-INTERUPTER PROTECTION. SMOKE DETECTOR NOTE: SMOKE DETECTORS SHALL BE INSTALLED PRIOR TO EACH SEPARATE SLEEPING AREA IN THE DORMITORY VERITY OF THE BEDROOM AND ON EACH ADJACENT LEVEL OF THE DWELLING, INCLUDING BATHROOMS AND TERRACE. ALL DETECTORS SHALL BE CONNECTED TO A SMOKE-ALARM SYSTEM OR OTHER DETECTOR TO PROVIDE, WHEN ACTIVATED, AN ALARM WHICH WILL BE AUDIBLE IN ALL SLEEPING AREAS. ALL ELECTRICAL WORK MUST BE INSTALLED PER CODE. THESE PLANS ARE STRICTLY SCHEMATIC.

THESE PLANS ARE THE PROPERTY OF C.J. KAPOROVICH ARCHITECTS, INC. AND ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF C.J. KAPOROVICH ARCHITECTS, INC. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF C.J. KAPOROVICH ARCHITECTS, INC. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF C.J. KAPOROVICH ARCHITECTS, INC. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF C.J. KAPOROVICH ARCHITECTS, INC.

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C.J. KAPOROVICH
RESIDENTIAL DESIGN, INC.
22003 TAIL RACE ROAD NW
ALDIE, VIRGINIA 20105
703.777.8872

CLIENT:
THE KAPLANBOOK RESIDENCE
4916 BELT ROAD NW
WASHINGTON, DC 20016

DATE:
5/14/2013

SCALE:
AS SHOWN

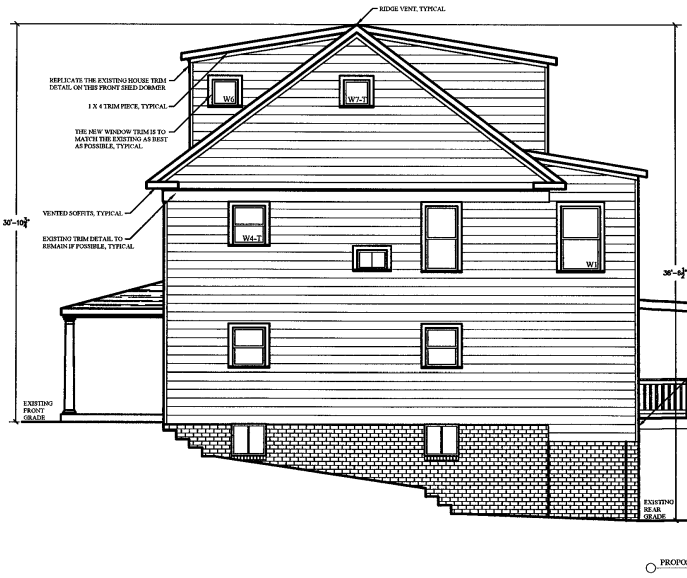
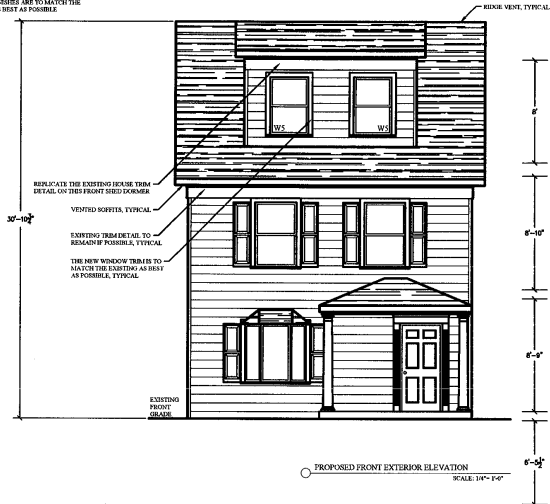
SHEET TITLE:
PROPOSED
FLOOR PLANS
AND
ELECTRICAL

SHEET NUMBER:
5 OF 8

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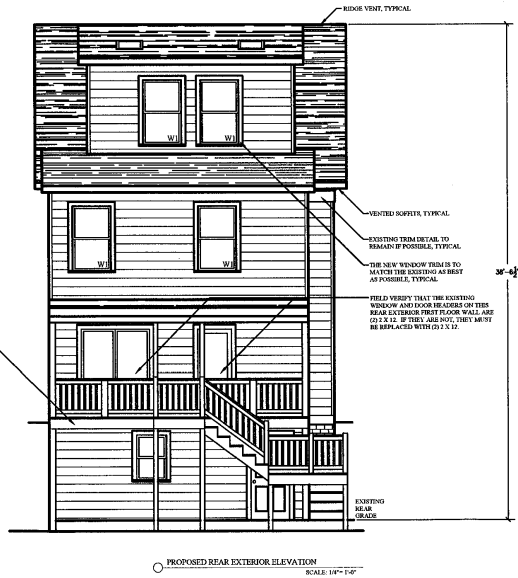
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NOTE:
ALL NEW FINISHES ARE TO MATCH THE
EXISTING AS BEST AS POSSIBLE



THIS EXISTING FOUNDATION UNDER THE EXISTING
ADDITION WHICH WAS ADDED YEARS AGO TO THE REAR OF
THE HOUSE. UNDER THE EXISTING ATTIC AND POWDER
ROOM IS TO BE UNDERPINNED WITH ADDITIONAL
FOUNDATION SUPPORT. SEE THE UNDERPINNING DETAIL
BELOW FOR SPECIFIC INSTALLATION INSTRUCTIONS.

NOTE: THE EXISTING PORCH FLOOR
FLOOR DO NOT HAVE STAIRS
METAL HANDRAILS. IT IS SUGGESTED
THAT THEY ARE ADDED FOR
ADDITIONAL SUPPORT OF THE
EXISTING PORCH FLOOR FINISHES.



THESE PLANS HAVE BEEN PREPARED BY THE ARCHITECT BASED ON THE INFORMATION PROVIDED BY THE
OWNER AND THE INFORMATION OBTAINED FROM THE FIELD SURVEY. THE ARCHITECT HAS NOT CONDUCTED A
STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE. THE ARCHITECT HAS NOT CONDUCTED A
GEOTECHNICAL ANALYSIS OF THE SITE. THE ARCHITECT HAS NOT CONDUCTED A
HYDROLOGICAL ANALYSIS OF THE SITE. THE ARCHITECT HAS NOT CONDUCTED A
ENVIRONMENTAL ANALYSIS OF THE SITE. THE ARCHITECT HAS NOT CONDUCTED A
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PHOTOGRAPHIC ANALYSIS OF THE SITE. THE ARCHITECT HAS NOT CONDUCTED A
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FEEL ANALYSIS OF THE SITE.

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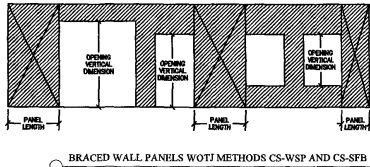
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MINIMUM LENGTH OF BRACED WALL PANELS

METHOD		MINIMUM LENGTH (IN)					CONTRIBUTING LENGTH (IN)
		WALL HEIGHT					
		R	T	B	FL	BT	
TYPE I	W/ST. SYS.	48	48	48	57	29	ACTUAL +
	CR	48	48	48	54	54	DOUBLE BEND + ACTUAL SINGLE BEND + 8.5 ACTUAL
	LIR	54	62	69	107	29	ACTUAL +
	MR	28	32	34	38	42	48
	REINFORCED JOIST ONLY	32	36	38	42	26 1/2	48
	SUPPORTING 1 STORY AND ROOF	24	24	24	27	29	48
	RF	32	32	37	34	36 1/2	1.5 X ACTUAL + ACTUAL +
	CSW	36	36	36	36	36	ACTUAL +
	CLRP	36	36	36	37 1/2	26 +	ACTUAL +
	ADJUSTMENT OPENING VERTICAL DIMENSION (IN)						
CLIP-ON CLIP-ON	LESS THAN OR EQUAL TO 64	24	27	36	33	36	
	68	30	37	50	33	36	
	72	37	47	50	33	36	
	76	39	49	50	33	36	
	80	42	50	50	33	36	
	84	44	51	52	33	36	
	88	46	53	53	33	36	
	92	48	57	53	36	36	
	96	48	58	54	36	36	
	100	48	58	54	36	36	
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	108	48	58	54	36	36	
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656	50	60	60	40	40		
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732	50	60	60	40	40		
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924	50	60	60	40	40		
928	50	60	60	40	40		
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948	50	60	60	40	40		
952	50	60	60	40	40		
956	50	60	60	40	40		
960	50	60	60	40	40		
964	50	60	60	40	40		
968	50	60	60	40	40		
972	50	60	60	40	40		
976	50	60	60	40	40		
980							

NP - NOT PERMITTED
a. LINEAR INTERPOLATION IS PERMITTED
b. USE THE ACTUAL LENGTH PROVIDED IT IS GREATER THAN OR EQUAL TO THE MINIMUM LENGTH
c. MAXIMUM HEADER HEIGHT FOR IS 10'; HOWEVER, WALL HEIGHT MAY BE INCREASED TO 12' WITH A PONY WALL PER TABLE 6



FLOOR/CEILING FRAMING CONNECTIONS

WHERE FRAMING IS PERPENDICULAR TO A BRACED WALL PANEL, A KID POST OR BLOCKING MUST BE PROVIDED ALONG THE LENGTH OF THE BRACED WALL PANEL AS SHOWN IN FIGURE 24. WHERE FRAMING IS PARALLEL TO A BRACED WALL PANEL, A KID POST, FRAMING MEMBER OR BLOCKING MUST BE PROVIDED ALONG THE LENGTH OF THE BRACED WALL PANEL AS SHOWN IN FIGURE 25.

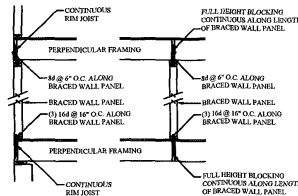


FIGURE 24: BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING

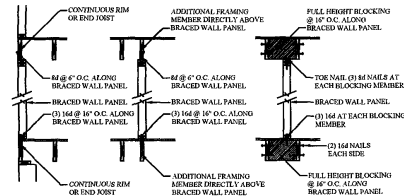


FIGURE 15: BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING

TABLE 7: FASTENING SCHEDULE[illegible]

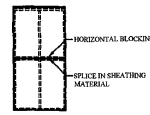
BLOCKING

A BRACED WALL PANEL IS NOT REQUIRED TO BE CONSTRUCTED WITH ONE SHEET OF OSB, PLYWOOD, FIBERBOARD OR GYPSUM BOARD. VERTICAL AND HORIZONTAL JOINTS ARE PERMITTED. ALL JOINTS MUST BE FASTENED USING EDGE NAILING PER TABLE 7.

VERTICAL JOINTS MUST OCCUR AT A STUD. IN THE CASE OF PANELIZED CONSTRUCTION, VERTICAL JOINTS ARE PERMITTED AT DOUBLE STUDS OF ADJOINING PANELS. THE DOUBLE STUDS MUST BE FASTENED TOGETHER WITH TWO ROWS OF 16D BOX NAILS (2" LONG X 6 1/8 INCH DIAMETER) AT 16" ON CENTER.

ALL HORIZONTAL JOINTS MUST HAVE 2X BLOCKING. THE LOCATION OF THE HORIZONTAL JOINT FOR PORTAL FRAMES MUST OCCUR WITHIN 2' OF THE PANEL'S MID-HEIGHT; HOWEVER, FOR ALL OTHER METHODS, HORIZONTAL JOINTS MAY OCCUR ANYWHERE ALONG THE HEIGHT OF THE BRACED WALL PANEL.

HORIZONTAL BLOCKING IS NOT REQUIRED WHEN THE AMOUNT OF BRACING PROVIDED IN A BWL IS AT LEAST DOUBLE THAT REQUIRED BY TABLE 1 OR, FOR METHOD GB ONLY, THE SHEETS OF GYPSUM BOARD ARE APPLIED HORIZONTALLY.

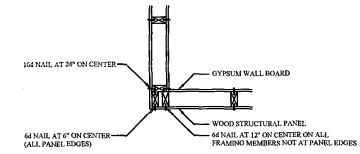


PANEL LENGTH

LENGTH OF SOLID PANEL AT CORNER				
8-FOOT WALL HEIGHT	9-FOOT WALL HEIGHT	10-FOOT WALL HEIGHT	11-FOOT WALL HEIGHT	12-FOOT WALL HEIGHT
16	18	20	24	30
1/8 RATIO	1/8 RATIO	1/8 RATIO	12/8 RATIO	12/8 RATIO

NOTES:

- NARROW WALL BRACING TO BE INSTALLED WITHIN 12'-6" OF EACH CORNER.
- 3/8" OR 1/2" EXTERIOR SHEATHING IS TO BE INSTALLED AND NAILED TO EACH STUD AT 16" ON CENTER.
- GYPSUM BOARD WITH MINIMUM 1/2" THICKNESS IS TO BE PLACED ON STUDS SPACED A MAXIMUM OF 24" ON CENTER AND FASTENED AT 7" ON CENTER.
- EACH BRACED WALL PANEL SHALL BE AT LEAST 48" IN LENGTH, COVERING A MINIMUM OF THREE STUD SPACES WHERE STUDS ARE SPACED 16" ON CENTER.



NOTE:
CONNECTION CRITERIA: 6d COMMON NAILS AT 6" SPACING
(PANEL EDGES) AND AT 12" SPACING (INTERMEDIATE SUPPORTS)

EXTERIOR OUTSIDE CORNER FRAMING DETAIL

[illegible]

C. L. FORBRICH
CENTIAL DESIGN, INC
23 TAIL RACE ROAD
E, VIRGINIA 20105
703-777-9872

CLIENT: THE KAPLAN-BOCK RESIDENCE
4916 BELT ROAD NW
WASHINGTON, DC 20016

DATE: 5/14/2013

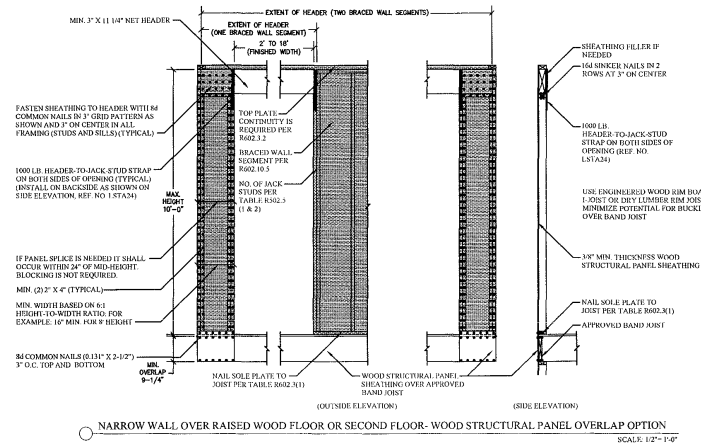
SCALE:
AS SHOWN

SHEET TITLE:

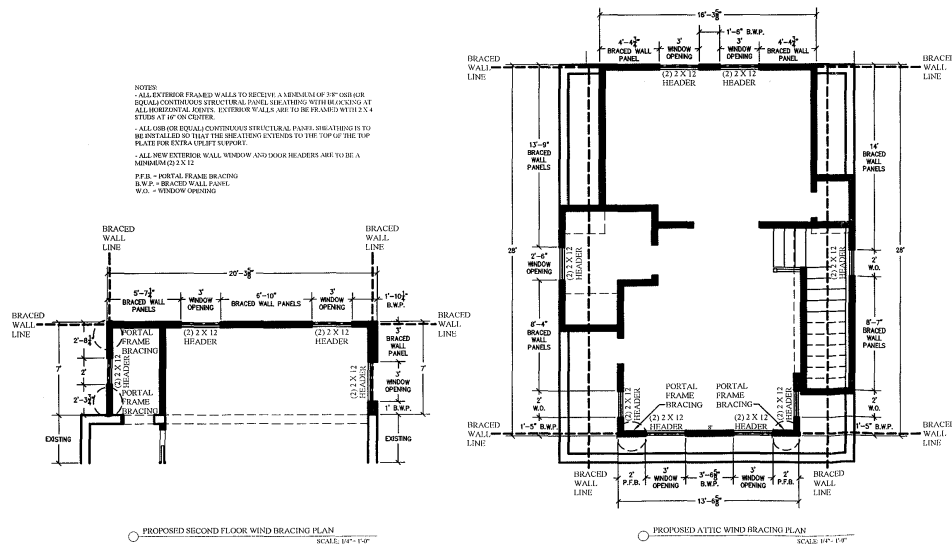
WIND BRACING
DETAILS

SHEET NUMBER:

RECEIVED
CITY OF ZONING
2013 MAY 23 PM 12:30



NARROW WALL OVER RAISED WOOD FLOOR OR SECOND FLOOR- WOOD STRUCTURAL PANEL OVERLAP OPTION



PROPOSED SECOND FLOOR WIND BRACING PLAN
SCALE: 1/4" = 1'-0"

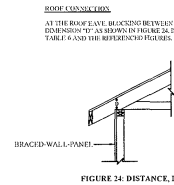


FIGURE 24: DISTANCE, D

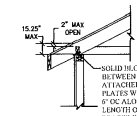


FIGURE 25: SOLID 2X BLOCKING
(D = 9.25" - 11.25")

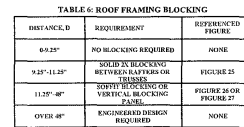


TABLE 6: ROOF FRAMING BLOCKING

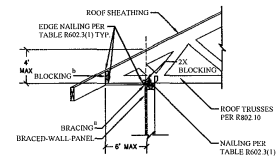
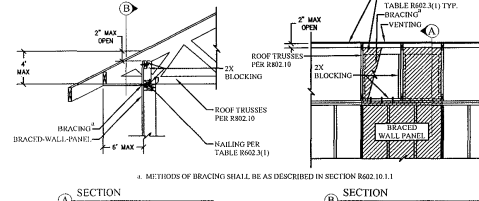


FIGURE 26: SOFFIT BLOCKING PANELS



**FIGURE 27: VERTICAL BLOCKING PANELS
(D = 11.25"–48")**

[illegible]

CLIENT:	THE KAPLAN-BOCK RESIDENCE 4916 BELT ROAD NW WASHINGTON, DC 20016
DESIGNER:	C. L. FORBRICH RESIDENTIAL DESIGN, INC 22003 TAIL RACE ROAD ALDIE, VIRGINIA 20105 703-777-9872

CLIENT:	THE W
DATE:	5/14/2013
SCALE:	AS SHOWN
SHEET TITLE:	WIND BRACIN DETAILS
SHEET NUMBER:	8 OF 8