

PROPOSED RENOVATION FOR:

KURNIT RESIDENCE

5330 42ND STREET NW
WASHINGTON D.C. 20024

DRAWING INDEX

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PERMIT SET - 10/28/14



PROPOSED DECK RENOVATION FOR:

KURNIT RESIDENCE

5330 42ND STREET NW
WASHINGTON D.C.

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PROJ. NO.:
DATE:

CV

Board of Zoning Adjustment
District of Columbia
CASE NO.18990
EXHIBIT NO.5

GENERAL NOTES

- BUILDING CODES:**
 A. ALL CONSTRUCTION SHALL CONFORM WITH THE 2012 INTERNATIONAL RESIDENTIAL CODE (IRC).
 B. ALL CONSTRUCTION SHALL CONFORM WITH ALL APPLICABLE LOCAL CODES AS AMENDED BY MONTGOMERY COUNTY HARTLAND.
- DESIGN LOADS:** (PER SECTION R301 OF IRC 2012)
 A. THE DESIGN DEAD LOADS FOR ALL FRAMING IS BASED ON THE CONSTRUCTION MATERIALS SHOWN ON THE DRAWINGS AND INDICATED IN THE GENERAL NOTES.
 B. THE MINIMUM DESIGN UNIFORMLY DISTRIBUTED LIVE LOADS FOR ALL NEW FRAMING SHALL BE AS FOLLOWS:
 FLOOR LOAD (L₀) ON SLEEPING PORCH / ATTIC WITH FIXED STAIR: 10 PSF
 GARAGE FLOOR: 15 PSF
 ROOF LIVE LOAD: 15 PSF (LIMITED STORAGE) / 10 PSF (NO STORAGE)
 C. ROOF SNOW LOAD DESIGN CRITERIA:
 GROUND SNOW LOAD (P_g): 30 PSF
 FLAT ROOF SNOW LOAD (P_f): 2 PSF
 EXPOSURE FACTOR (E): 1
 IMPORTANCE FACTOR (I): 1
 D. WIND LOAD DESIGN CRITERIA:
 BASIC WIND SPEED (V): 80 MPH
 WIND EXPOSURE: B
 IMPORTANCE FACTOR (I_m): 1
 E. EARTHQUAKE LOAD DESIGN CRITERIA:
 SEISMIC DESIGN CATEGORY: B
 SPECTRAL RESPONSE COEFFICIENT (SDS): 0.199
 SITE CLASS: D
 F. SUBJECT TO DAMAGE FROM:
 WEATHERING: SEVERE
 FROST LINE DEPTH: 24"
 DECAY: MODERATE TO HEAVY
 SLIGHT TO MODERATE
 G. TEMPERATURE AND FLOODING:
 WINTER DESIGN TEMPERATURE: 31°F
 ICE SHEILD REQUIREMENT REQUIRED: YES 44/2
 FLOOD HAZARDS: 4/18
 AIR FREEZING INDEX: 3000
 MEAN ANNUAL TEMPERATURE: 55°F
 H. THE STABILITY OF THE STRUCTURE IS DEPENDENT UPON THE DRAINAGE OF THE FLOORS AND ROOF. THE CONTRACTOR IS RESPONSIBLE FOR THE METHOD OF CONSTRUCTION AND SHALL PROVIDE ALL TEMPORARY BRACING AND SHORING REQUIRED TO MAINTAIN THE STABILITY OF THE STRUCTURE AND TO SUPPORT CONSTRUCTION LOADS DURING CONSTRUCTION, INCLUDING SOILS ON WALLS FROM BACK FILLING PRIOR TO PLACING SLABS ON GRADE. DESIGN OF ALL BRACING IS THE CONTRACTOR'S RESPONSIBILITY.

- GENERAL FOOTING FOUNDATIONS:**
 A. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 30" BELOW FINISH GRADE FOR FROST PROTECTION.
 B. ALL FOOTINGS HAVE BEEN DESIGNED FOR AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
 C. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL FOUNDATION AND SOIL CONDITIONS WHICH DIFFER FROM THOSE ANTICIPATED OR INDICATED IN THE CONTRACT DOCUMENTS.

- CONCRETE SLAB ON GRADE:**
 A. ALL SLABS ON GRADE, UNLESS OTHERWISE NOTED, SHALL CONSIST OF A 4" THICK CONCRETE SLAB REINFORCED WITH ONE LAYER OF 6X6-18" W4#4 HELDED WIRE FABRIC, AND PLACED OVER A 4" MIN. POLYETHYLENE VAPOUR RETARDER AND 4" MIN. OF COMPACTED GRANULAR BASE. ALL EDGES OF VAPOUR RETARDER SHALL BE LAPPED A MINIMUM OF 8" AND TAPED. MAXIMUM ALLOWABLE SIZE OF GRANULAR BASE SHALL BE 1/2" IN DIA.
 B. FILL DEPTH UNDER SLAB SHALL NOT EXCEED 24" INCHES FOR CLEAN SAND OR GRAVEL AND 8" INCHES FOR COMPACTED SOIL. SLABS ON HEAVIER FILL SHALL BE ENGINEERED SUPPORTED SLABS. COORDINATE WITH ENGINEER WHERE REQUIRED.
 C. PLACE CONCRETE PER ACI 302. CONTRACTOR SHALL READ, UNDERSTAND & FOLLOW SCHEDULES SET FORTH FOR PREPARING SUBGRADE, PLACING, CONSOLIDATING, FINISHING AND CURING CONCRETE SLABS.

- CAST IN PLACE CONCRETE:**
 A. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) AND TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318).
 B. IN ADDITION TO THE ABOVE, ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING:
 1. RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING (ACI 308)
 2. RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING (ACI 306)
 3. RECOMMENDED PRACTICE FOR CONCRETE FROM HOLE (ACI 343)
 C. ALL CONCRETE, UNLESS OTHERWISE NOTED, SHALL BE STONE ADVERTISE CONCRETE HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE AN AIR ENTRAINMENT OF 5% TO 8%. NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED. MAXIMUM AGGREGATE SIZE SHALL BE 1" AND MAXIMUM SLUMP SHALL BE 8" FOR SLABS ON GRADE. ALL CONCRETE EXCEPT FOOTINGS SHALL CONTAIN A WATER REDUCING ADMIXTURE. PORTLAND CEMENT SHALL CONFORM TO ASTM C59 AND NORMAL WEIGHT AGGREGATES SHALL CONFORM TO ASTM C33.
 D. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A605 GRADE 60. ALL WELDED WIRE FABRIC (W/F) SHALL CONFORM TO ASTM A601. LAP ALL REINFORCING BARS A MINIMUM OF 48" BAR DIA. (E.G. - LAP 1/2" BAR 24") AND ALL W/F, A MINIMUM OF TWO FULL BLENDS, UNLESS OTHERWISE INDICATED.

STRUCTURAL AND MISCELLANEOUS STEEL

- A. ALL STEEL CONSTRUCTION SHALL CONFORM TO THE THIRTIETH EDITION OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN AND THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS.
 B. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 GRADE 50 OR ASTM A572 AT THE CONTRACTORS OPTION.
 C. ALL MISCELLANEOUS STEEL (ANGLES, PLATES, ETC.) SHALL CONFORM TO ASTM A36 HAVING A MINIMUM YIELD STRENGTH OF Fy=36,000 PSI.
 D. ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53 HAVING A MINIMUM YIELD STRENGTH OF Fy=36,000 PSI OR TO ASTM A53 TYPE "B" OR "X" GRADE "B" HAVING A MINIMUM YIELD STRENGTH OF Fy=35,000 PSI.
 E. ALL STRUCTURAL STEEL TUBES SHALL CONFORM TO ASTM A500 GRADE "B", HAVING A MINIMUM YIELD STRENGTH OF Fy=46,000 PSI.
 F. ALL CONNECTIONS, UNLESS OTHERWISE NOTED, SHALL BE DOUBLE ANGLE OR SINGLE PLATE BEAM CONNECTIONS DESIGNED AND DETAILED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL" WITH A MINIMUM EDGE DISTANCE OF 1 1/2 INCHES AND BOLT SPACING OF 3 INCHES.
 G. THE CONTRACTOR SHALL NOT SPICE OR CUT OPENINGS IN STEEL MEMBERS NOT SHOWN ON CONTRACT DRAWINGS WITHOUT THE PERMISSION OF THE STRUCTURAL ENGINEER.

- WINDOWS AND DOORS:**
 A. ALL WINDOW NUMBERS INDICATE MODEL NUMBERS FOR "ANDERSEN" WINDOW UNITS.
 B. WINDOWS INDICATED ON DRAWINGS AS "GLASS" SHOULD MEET BUILDING CODE REQUIREMENTS PER SECTION R301 OF THE IRC.
 C. WINDOWS IN DOORS, SIDE LIGHTS AND WINDOWS WITHIN 24" OF DOORS SHALL BE PROVIDED WITH SAFETY GLASS TO COMPLY WITH SECTION R308 OF THE IRC.
 D. GLASS AT TUBS AND SHOWER ENCLOSURES SHALL BE PROVIDED WITH SAFETY GLASS TO COMPLY WITH SECTION R308 OF THE IRC.

WOOD FRAMING

- A. ALL WOOD FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
 B. ALL NEW LUMBER SHALL BE SPRUCE-PINE-FIR NO. 2 OR BETTER. ALL NEW PRESSURE TREATED LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER.
 C. RAILING OF ALL WOOD FRAMING SHALL MEET THE MINIMUM RECOMMENDED REQUIREMENTS PROVIDED IN THE NAILED SCHEDULE OF THE IRC BUILDING CODE.
 D. PROVIDE DOUBLE JOISTS OR HEADERS ABOVE EACH SIDE OF FLOOR OR ROOF OPENINGS UNDER THE CENTERLINE OF PARTITION WALLS PARALLEL TO JOIST SPANS, AND ABOVE ALL WALL OPENINGS UNLESS OTHERWISE INDICATED.
 E. THE CONTRACTOR SHALL CUT OR NOTCH THE WOOD FRAMING ONLY AS REQUIRED AND IN ACCORDANCE WITH THE IRC BUILDING CODE, THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, OR AS SHOWN ON THE CONTRACT DRAWINGS.
 F. PROVIDE DOUBLE OR TRIPLE STUDS AT ALL CORNERS, SIDES OF OPENINGS AND BENEATH ALL WOOD BEAMS AND LINTELS UNLESS OTHERWISE INDICATED.
 G. WOOD TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE'S NATIONAL DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION FOR THE DESIGN LOADS INDICATED ON THE CONTRACT DOCUMENTS.
 H. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS FOR ALL WOOD TRUSSES INCLUDING MEMBER LAYOUT, HOOD SPACING AND GRADE MEMBER SIZES, TRUSS BEARING CONNECTION DETAILS, CAPACITY OF CONNECTION PLATES AND SIZE AND LOCATION OF ALL REQUIRED BRACING. THE CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND.
 I. THE CONTRACTOR SHALL PROVIDE TRUSS TIES EQUIVALENT TO OR BETTER THAN THE UPLIFT LOADS INDICATED ON THE TRUSS SHOP DRAWINGS.

INSULATION & MOISTURE PROTECTION

- A. PROVIDE R-10 BUILDING FELT OR PAPER AT BRICK VENEER WITH FLASHING AT OPENING TO PREVENT MOISTURE PENETRATION BEHIND THE VENEER.
 B. PROVIDE MINIMUM ONE LAYER OF 15 LB ROOFING FELT AT THE ROOF TO PROVIDE A WATER-RESISTANT BASE FOR FIBERGLASS COPPOSITION ROOF SHINGLES.
 C. PROVIDE INSULATION AS FOLLOWS:
 ROOF/ATTIC AREAS: R-30 FIBERGLASS BATT OR ELOVER R-30 CRAFT-FACED FIBERGLASS BATT
 EXTERIOR WALLS: R-10 FIBERGLASS BATT
 WINDOW / GLASS DOORS: U-FACTOR 1.0 AND W-FACTOR 1.0
 SKYLIGHTS: U-FACTOR 1.0
 D. THE CONTRACTOR SHALL PROVIDE CORROSION-RESISTANT METAL FLASHING ABOVE ALL WINDOW AND DOOR OPENINGS TO PREVENT MOISTURE PENETRATION. SIMILAR FLASHING SHALL BE PROVIDED AT ROOF VALLEYS AND ROOF OPENINGS, WOOD OR METAL GABLE ENDS AND SILL.
 E. THE CONTRACTOR SHALL PROVIDE PERFORATED SOFFITS AT THE ROOF EAVES AND A CONTINUOUS RIDGE VENT AT THE ROOF TO PROVIDE REQUIRED ATTIC VENTILATION.

SPECIAL TIES

- A. SHOCK ALARMS SHALL COMPLY WITH SECTION R301 OF THE IRC. SHOCK ALARMS SHALL BE INSTALLED IN EACH SLEEPING ROOM AND OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH ADDITIONAL STORY OF THE HOUSE INCLUDING THE BASEMENT.
 B. SHOCK ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE HOUSE WIRING. WHEN PRIMARY POWER IS INTERRUPTED, SHOCK ALARMS SHALL RECEIVE POWER FROM A BATTERY.

STAIRS, HANDRAILS & GUARDS

- A. STAIRS SHALL COMPLY WITH SECTION R301 OF THE IRC. STAIRWAYS SHALL NOT BE LESS THAN 36 INCHES IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED MINIMUM. THE PERMITTED MINIMUM CLEAR WIDTH ABOVE ROOM HEIGHT, IS 36 INCHES. WHERE A HANDRAIL IS INSTALLED ON ONE SIDE, 27 INCHES WHERE HANDRAILS ARE INSTALLED ON BOTH SIDES.
 B. MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 80 INCHES.
 C. MAXIMUM STAIR RISER HEIGHT SHALL BE 7-3/4 INCHES AND MINIMUM TREAD DEPTH SHALL BE 10 INCHES, (UNLESS NOTED OTHERWISE IN CONTRACT DRAWINGS).
 D. HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH STAIRWAY WITH FOUR OR MORE RISERS. HANDRAILS SHALL BE A MINIMUM OF 34 INCHES AND A MAXIMUM OF 38 INCHES ABOVE TREAD NOSG.
 E. PORCHES, BALCONIES, RAMPS OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 36 INCHES IN HEIGHT.
 F. REQUIRED GUARDS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES WHICH DO NOT ALLOW PASSAGE OF A SPHERE 4 INCHES OR MORE IN DIAMETER.

MECHANICAL, ELECTRICAL & PLUMBING

- A. HVAC, DESIGN AND INSTALLATION TO BE PERFORMED BY LICENSED MECHANICAL CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE CODES.
 B. ELECTRICAL DESIGN AND INSTALLATION TO BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE CODES.
 C. PLUMBING DESIGN AND INSTALLATION TO BE PERFORMED BY LICENSED PLUMBING CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE CODES.
 D. IF REQUIRED, FIRE SPRINKLER SYSTEM TO BE DESIGNED AND INSTALLED BY LICENSED SUBCONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE CODES.

HEADER SPAN CHART NOTES

- A. SPANS ARE GIVEN IN FEET AND INCHES.
 B. TABLED TO 2" GRADE DOUGLAS FIR-LARCH, HEM-FIR, SOUTHERN PINE OR SPRUCE-PINE FIR LUMBER.
 C. BUILDING WIDTH IS MEASURED PERPENDICULAR TO THE RIDGE. FOR WIDTHS BETWEEN THOSE SHOWN, SPANS ARE PERMITTED TO BE INTERPOLATED.
 D. WHERE THE NUMBER OF REQUIRED JACK STUDS EQUALS ONE, THE HEADER IS PERMITTED TO BE SUPPORTED BY APPROVED FRAMING ANCHORS ATTACHED TO THE FULL-HEIGHT WALL STUD AND TO THE CEILING.

PRODUCT GENERAL NOTES

- A. WALL DIMENSIONS ARE FROM OUTSIDE FACE OF FRAMING AND ARE AS FOLLOWS (MIN):
 INTERIOR PARTITIONS = 3-1/2" (2x4 WOOD STUDS @ 16" O.C.)
 EXTERIOR WALLS = 6" (2x6 STUDS @ 16" O.C. PLUS 1/2" SHEATHING)
 B. THE CONTRACTOR AND HIS ASSOCIATED SUBCONTRACTORS ARE RESPONSIBLE TO THOROUGHLY REVIEW ALL DRAWINGS. ANY INCONSISTENCIES OR ERRORS ARE TO BE REPORTED FOR CLARIFICATION OR CORRECTION PRIOR TO THE START OF CONSTRUCTION OR MANUFACTURING OF PRE-FABRICATED COMPONENTS.
 C. SPACING OF ALL PRE-ENGINEERED WOOD FRAMING PRODUCTS (MEMBERS, PURLINS, I-FLOOR/ROOF TRUSSES) TO BE ENGINEERED/VERIFIED BY MANUFACTURER.
 D. IF FLOOR FRAMING TO BE ACCOMPLISHED WITH PRE-ENGINEERED WOOD "I" JOISTS, MANUFACTURER'S AGENT TO DESIGN JOIST LAYOUT AND PROVIDE ENGINEERED SHOP DRAWINGS/FLOOR SYSTEM TO BE DESIGNED WITH L/480 LIVE LOAD DEFLECTION MIN. (L/800 IN AREAS TO BE FINISHED WITH TILE).
 E. IF ROOF FRAMING TO BE ACCOMPLISHED WITH PRE-ENGINEERED WOOD TRUSSES, MANUFACTURER'S AGENT TO DESIGN TRUSS LAYOUT AND PROVIDE ENGINEERED SHOP DRAWINGS.
 F. THESE DOCUMENTS ARE NOT TO BE SCALED. DIMENSIONS SHALL GOVERN ON ALL DRAWINGS. ANY OMISSIONS OR AREAS OF DISCREPANCY SHALL BE REFERRED TO LEVELLE INC. PRIOR TO CONSTRUCTION.

MASONRY - BRICK VENEER

- A. ALL BRICK VENEER CONSTRUCTION TO BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR ENGINEERED BRICK MASONRY* BY THE BRICK INSTITUTE OF AMERICA AND IRC 2008 REQUIREMENTS.
 VENEER BRICK: ASTM C216, GRADE 5N
 PORTLAND: ASTM C210, TYPE S
 B. BRICK VENEER SHALL BE ATTACHED TO WOOD FRAMING WITH 10" x 1" LONG 22 GAUGE STANDARD CORRUGATED METAL TIES. THE TIES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION CONFORMING TO ASTM A653 CLASS B2. SPACING OF ANCHORS AND TIES SHALL BE 16" O.C. MAX. VERTICAL AND 8" O.C. MAX. HORIZONTAL. FOR BRICK VENEER WALLS TALLER THAN 20'-0" BUT NOT EXCEEDING 40'-0" IN HEIGHT, PROVIDE 2" DIA. SERIES VENEER ANCHORS BY HOFFMANN AND BARNARD OR APPROVED EQUIVALENT AT 16" O.C. VERTICAL AND 8" O.C. HORIZONTAL. ANCHOR TIES WITH 1/2" SERIES VENEER ANCHORS PER STEP. PROVIDE VEEBOLTS HORIZONTALLY AT 2'-0" O.C.
 C. COORDINATE OPENINGS WITH LINTEL SCHEDULE.
 D. ALL MASONRY CONSTRUCTION TO BE IN ACCORDANCE WITH THE NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY OR ACI 530 BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES. ALL MASONRY TO CONFORM TO THE FOLLOWING SPECIFICATIONS:
 - HOLLOW LOAD-BEARING CMU: ASTM C90
 - SOLID LOAD-BEARING CMU: ASTM C110
 - PORTLAND: ASTM C210, TYPE S OR 5
 E. CMU UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF Fm = 3500 PSI. CONTRACTOR SHALL PROVIDE SPECIAL TIES AND REINFORCING FOR THE LOCATION OF THE REINFORCEMENT AND DAMPING CONSTRUCTION OF CMU WALL.
 F. JOINT REINFORCING: PROVIDE TRUSS TIE ZINC COATED COLD DRAWN STEEL, WIRE CONFORMING TO ASTM A601 AND DIAPHRAGM OR EQUIVALENT AT EVERY OTHER FLOOR COURSE ABOVE GRADE. REINFORCEMENT SHOULD CONSIST OF TWO OR MORE LONGITUDINAL WIRE NO. 6 GAUGE OR LARGER, WELD CONNECTED WITH NO. 12 GAUGE OR LARGER CROSS WIRES. ZINC COATING.
 G. GRUNT OR PEA GRAVEL CONCRETE USED FOR FILLING JOINT CELLS OF MASONRY SHALL CONFORM TO ASTM C678 AND SHALL HAVE AN COMPRESSIVE STRENGTH OF 2500 PSI ON THE NET AREA AT 28 DAYS.

HEADER SPAN CHART

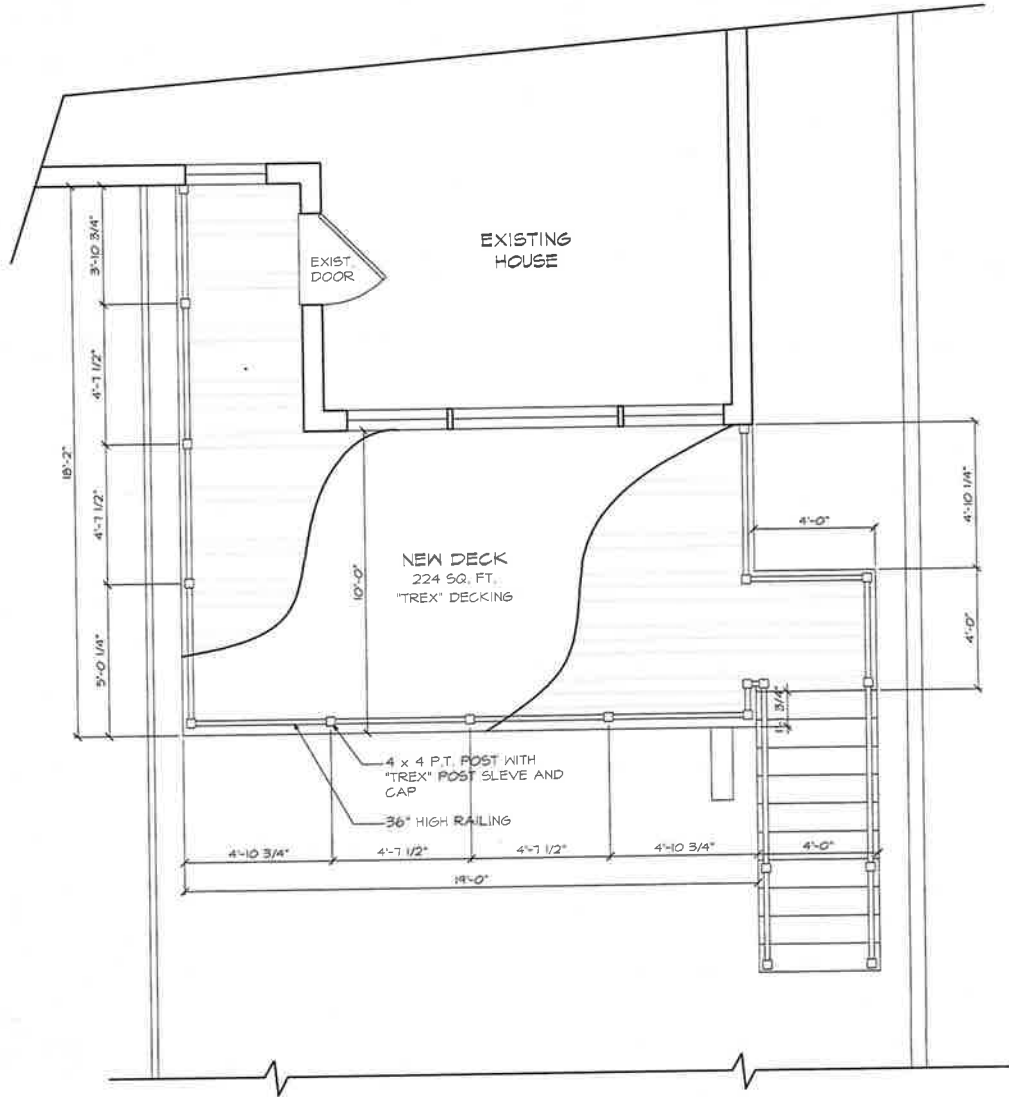
BASED ON 30 PSF (GROUND SNOW) LOAD PER DESIGN CODE OF IRC 2012

EXTERIOR BEARING WALLS

HEADERS SUPPORTING	SIZE	BUILDING WIDTH* (feet)					
		20		26		36	
		SPAN	# OF JACKS ^a	SPAN	# OF JACKS ^a	SPAN	# OF JACKS ^a
ROOF AND CEILING	(2) 2x8	6'-0"	1	5'-8"	2	5'-8"	2
	(2) 2x10	8'-0"	2	7'-8"	2	7'-8"	2
	(2) 2x12	9'-0"	2	8'-5"	2	8'-0"	2
	(3) 2x10	8'-4"	1	7'-5"	1	6'-0"	1
	(3) 2x12	10'-0"	1	8'-1"	2	8'-2"	2
ROOF, CEILING AND ONE CENTER-BEARING FLOOR	(2) 2x12	12'-2"	2	10'-7"	2	6'-5"	2
	(2) 2x10	5'-8"	2	5'-0"	2	4'-8"	2
	(2) 2x12	7'-2"	2	6'-2"	2	5'-8"	2
	(2) 2x10	8'-4"	2	7'-4"	2	6'-5"	2
	(3) 2x10	1-3	1	6'-3"	2	5'-8"	2
ROOF, CEILING AND TWO CENTER-BEARING SPAN FLOOR	(3) 2x10	8'-4"	2	7'-5"	2	6'-8"	2
	(3) 2x12	10'-2"	2	8'-8"	2	8'-0"	2
	(2) 2x8	5'-0"	2	4'-8"	2	3'-10"	2
	(2) 2x10	6'-4"	2	5'-8"	2	4'-5"	2
	(2) 2x12	7'-4"	2	6'-11"	2	5'-5"	2
ROOF, CEILING AND TWO CENTER-BEARING FLOORS	(3) 2x10	6'-3"	2	5'-5"	2	4'-10"	2
	(3) 2x12	7'-7"	2	6'-7"	2	5'-11"	2
	(3) 2x12	8'-10"	2	7'-8"	2	6'-4"	2
	(2) 2x8	4'-8"	2	4'-2"	2	3'-4"	2
	(2) 2x10	5'-4"	2	5'-4"	2	4'-11"	2
ROOF, CEILING AND TWO CLEAR SPAN FLOOR	(2) 2x12	6'-0"	3	5'-10"	3	5'-3"	3
	(2) 2x10	5'-11"	2	5'-2"	2	4'-10"	2
	(3) 2x10	7'-9"	2	6'-4"	2	5'-0"	2
	(3) 2x12	8'-10"	2	7'-4"	2	6'-7"	2
	(2) 2x8	3'-10"	2	3'-4"	2	3'-0"	2

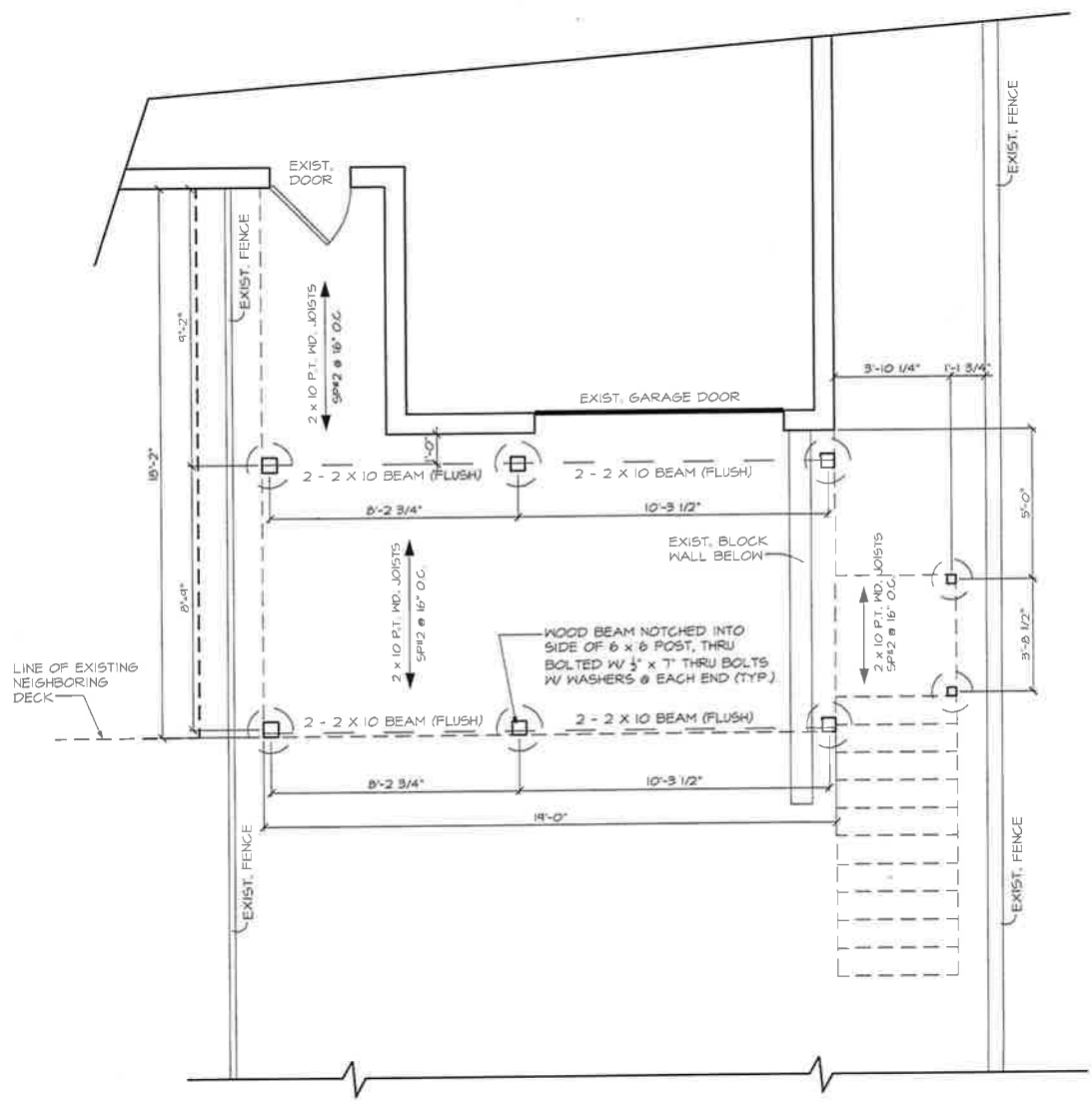
INTERIOR BEARING WALLS

HEADERS SUPPORTING	SIZE	BUILDING WIDTH* (feet)					
		20		26		36	
		SPAN	# OF JACKS ^a	SPAN	# OF JACKS ^a	SPAN	# OF JACKS ^a
ONE FLOOR ONLY	(2) 2x6	4'-0"	1	3'-8"	1	3'-4"	1
	(2) 2x8	5'-4"	1	5'-0"	2	4'-5"	2
	(2) 2x10	7'-0"	2	6'-8"	2	6'-5"	2
TWO FLOOR	(2) 2x12	8'-4"	2	7'-0"	2	6'-3"	2
	(2) 2x8	3'-2"	2	2'-4"	2	2'-5"	2
	(2) 2x10	4'-4"	2	3'-8"	2	3'-2"	2
(2) 2x12	4'-11"	2	4'-5"	2	3'-10"	2	
(2) 2x12	5'-4"	2	5'-0"	2	4'-5"	2	



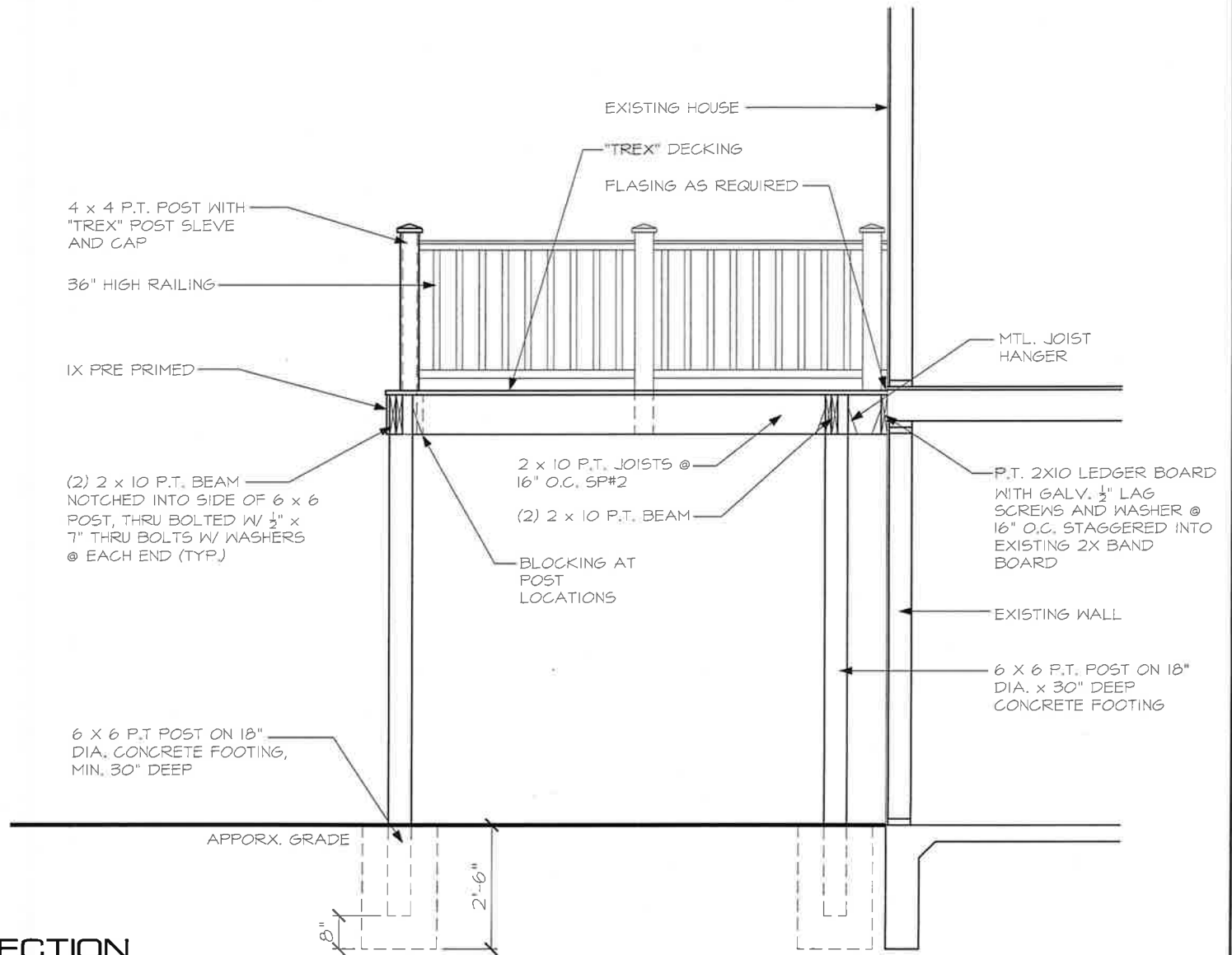
FLOOR PLAN

SCALE: 1/4" = 1'-0"



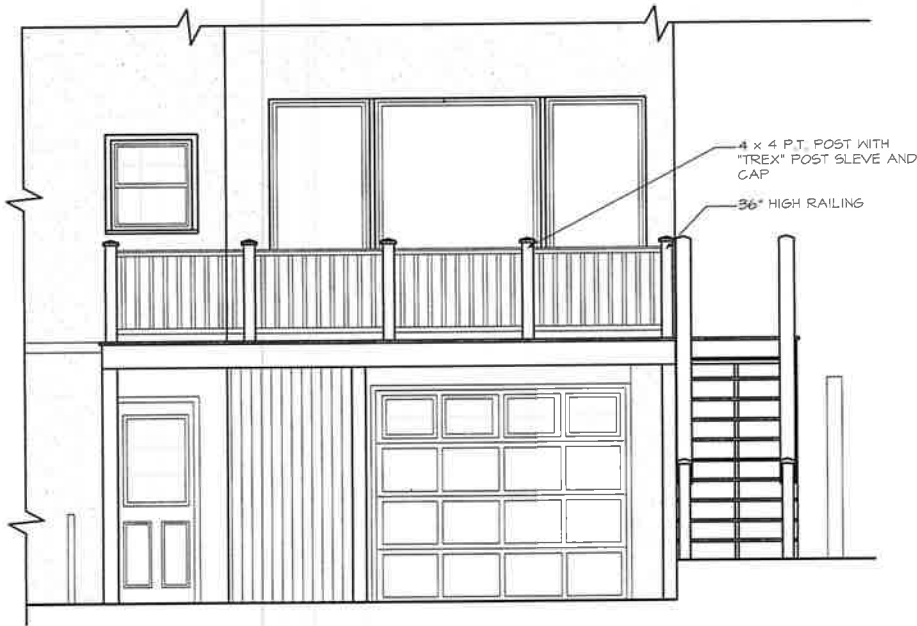
FOUNDATION PLAN

SCALE: 1/4" = 1'-0"



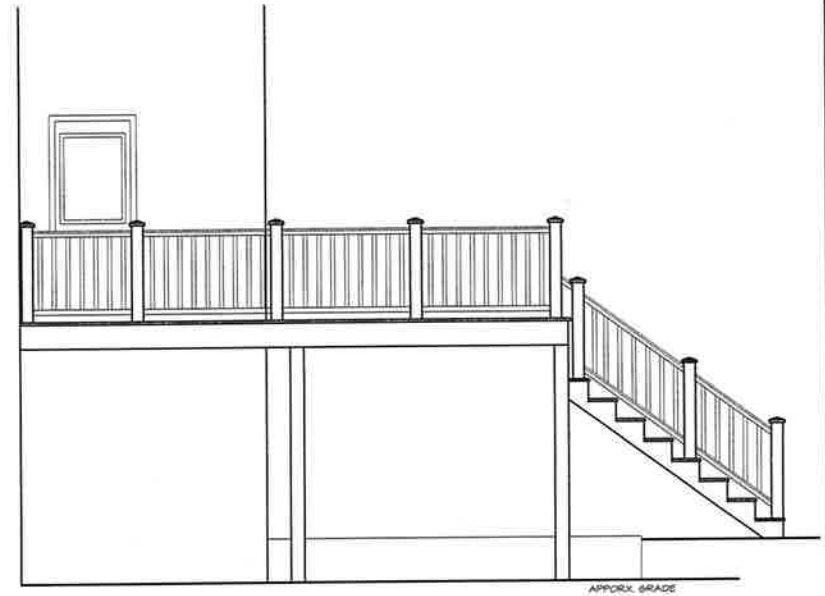
CROSS SECTION

SCALE: 1/2" = 1'-0"



REAR ELEVATION

SCALE: 1/4" = 1'-0"



LEFT SIDE ELEVATION

SCALE: 1/4" = 1'-0"



RIGHT SIDE ELEVATION

SCALE: 1/4" = 1'-0"