

BUILDING CODE CLASSIFICATION
CONSTRUCTION TYPE.....5B
USE GROUP.....R2

INSULATION VALUES:
BUILDING ENVELOPE TO SATISFY REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE 2009 , IBC 2009 AND 780 CMR CHAPTER 13
MASSACHUSETTS AMENDMENTS TO THE INTERNATIONAL BUILDING CODE 2009.

BUILDING ENVELOPE TO COMPLY WITH THE INSULATION AND FENESTRATION CRITERIA (IECC, SECTION 402):
FENESTRATION.....U=0.35
CEILING OR EXPOSED FLOORS.....R-38
EXTERIOR WALLS.....R-20
FLOOR.....R-30
BASEMENT WALL.....R-10
SLAB PERIMETER: 4.0 FT. DEEP.....R-10
- BUILDING ENEVELOPE MUST BE CAULKED AND SEALED
- SUPPLY DUCTS IN ATTICS MUST BE INSULATED TO R-8
- RETURN DUCTS IN ATTICS AND ALL DUCTS IN CRAWL SPACES, UNHEATED BASEMENTS, GARAGES OR OTHERWISE OUTSIDE BUILDING ENVELOPE MUST BE INSULATED TO R-6
- ALL DUCTS TO BE SEALED AND PREASSURE TESTED FOR LEAKAGE PER REQUIREMENTS OF THE 2009 IECC
- MINIMUM OF 50 % OF ALL LAMPS TO BE ENERGY EFFICIENT
- MAXIMUM SOLAR HEAT GAIN COEFFICIENT SHGC = 0.30
- A CERTIFICATE MUST BE POSTED NEAR THE ELECTRICAL PANEL LISTING INSULATION LEVELS AND OTHER ENERGY EFFICIENCY MEASURES

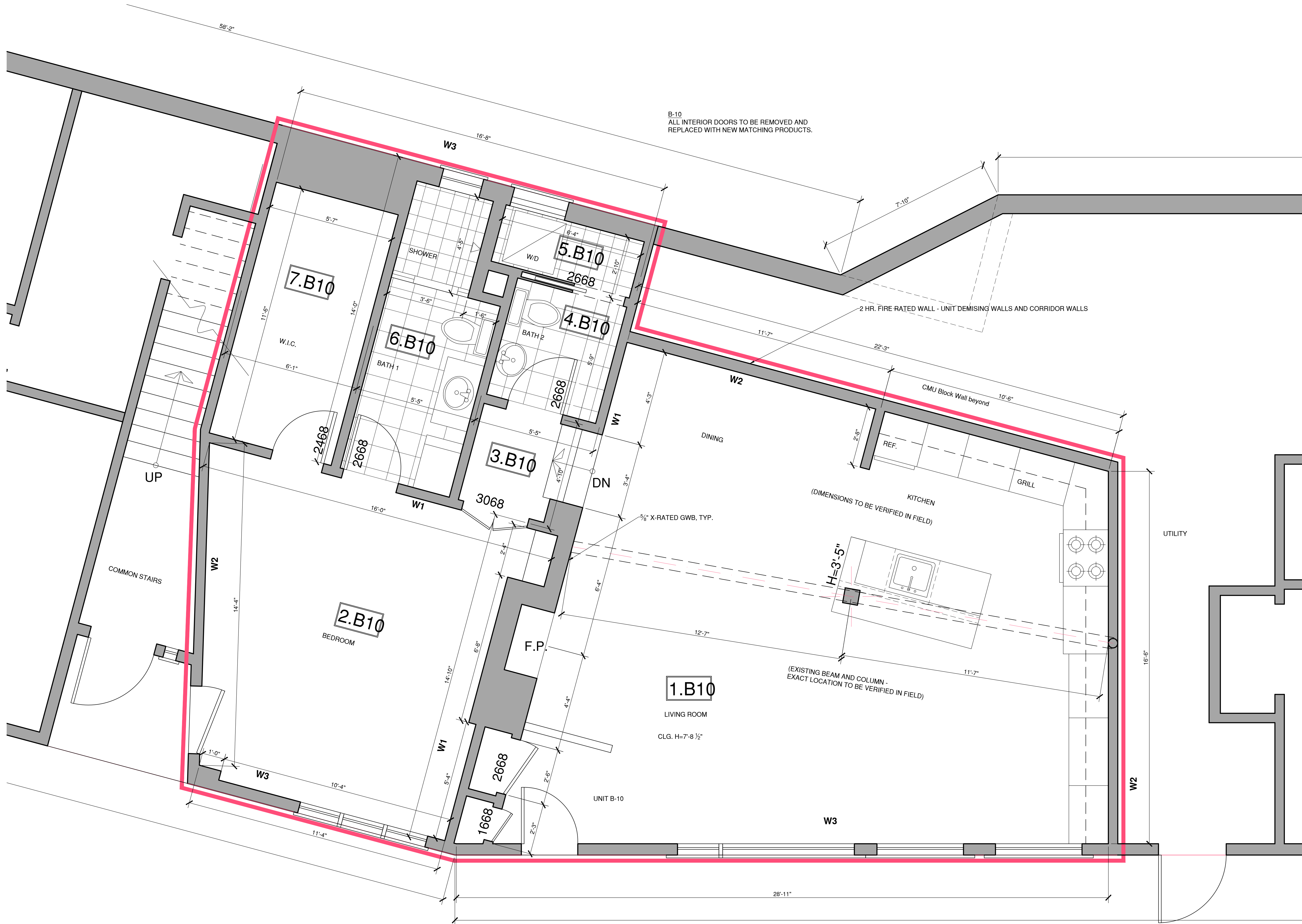
Harborside Condominiums
(Units B-2, B-5, B-6, B-10)
24 Lee Street
Marblehead, MA

Date: January 15, 2014

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE IBC2009, MASSACHUSETTS STATE BUILDING, PLUMBING AND ELECTRICAL CODES AND ALL APPLICABLE LOCAL REGULATIONS AND ORDINANCES.
- CONTRACTOR SHALL DISPOSE OF ALL DEBRIS AND RUBBISH IN A LEGALLY APPROVED MANNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY FROM THE DEMOLITION PHASE TO FINAL COMPLETION.
- CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING TO SECURE THE STRUCTURAL INTEGRITY AND SAFETY OF ANY PERSONS UPON THE SITE.
- CONTRACTOR SHALL REVIEW WORKING DRAWINGS IN THEIR ENTIRETY AND SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL SUBCONTRACTORS AND THEIR WORK.
- CONTRACTOR SHALL CAREFULLY PATCH AND MATCH ADJACENT FINISHES AND MATERIALS AND ASSEMBLIES DISTURBED AS A RESULT OF WORK.

R Z A
ROBERT ZARELLI
ARCHITECT, AIA
20 Prospect Street
Marblehead, MA 01945
781.631.5593
FAX: 781.639.8070



B-10
ALL INTERIOR DOORS TO BE REMOVED AND
REPLACED WITH NEW MATCHING PRODUCTS.

2 HR. FIRE RATED WALL - UNIT DEMISING WALLS AND CORRIDOR WALLS

CMU Block Wall beyond

(DIMENSIONS TO BE VERIFIED IN FIELD)

(EXISTING BEAM AND COLUMN -
EXACT LOCATION TO BE VERIFIED IN FIELD)

1.B10
LIVING ROOM
CLG. H=7'-8 1/2"

UNIT B-10

Unit B-10 on the First Level

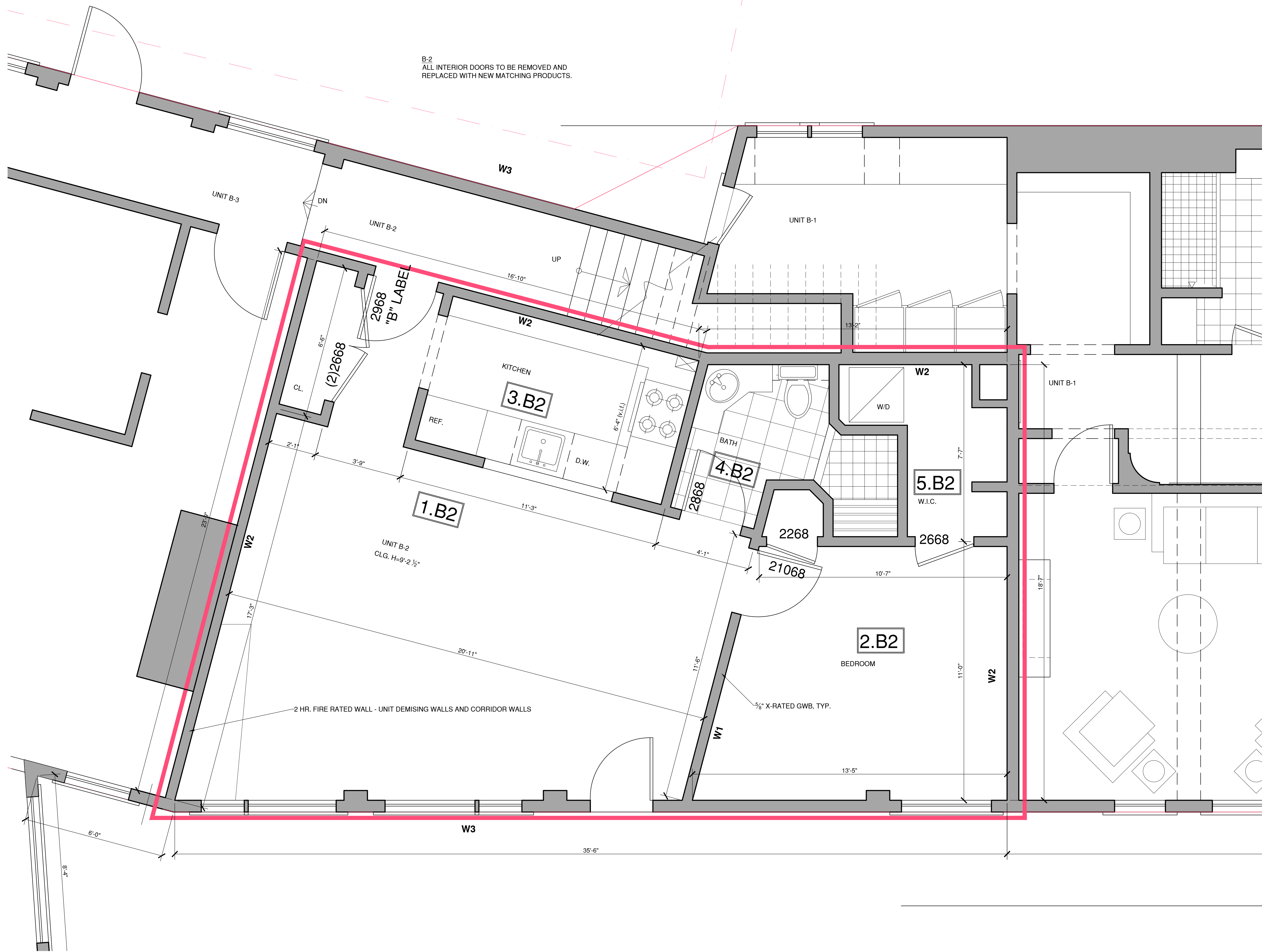
Scale: 1/2" = 1'-0"
Date: January 15, 2014

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REPRODUCTION NOTE
THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

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A.1.a



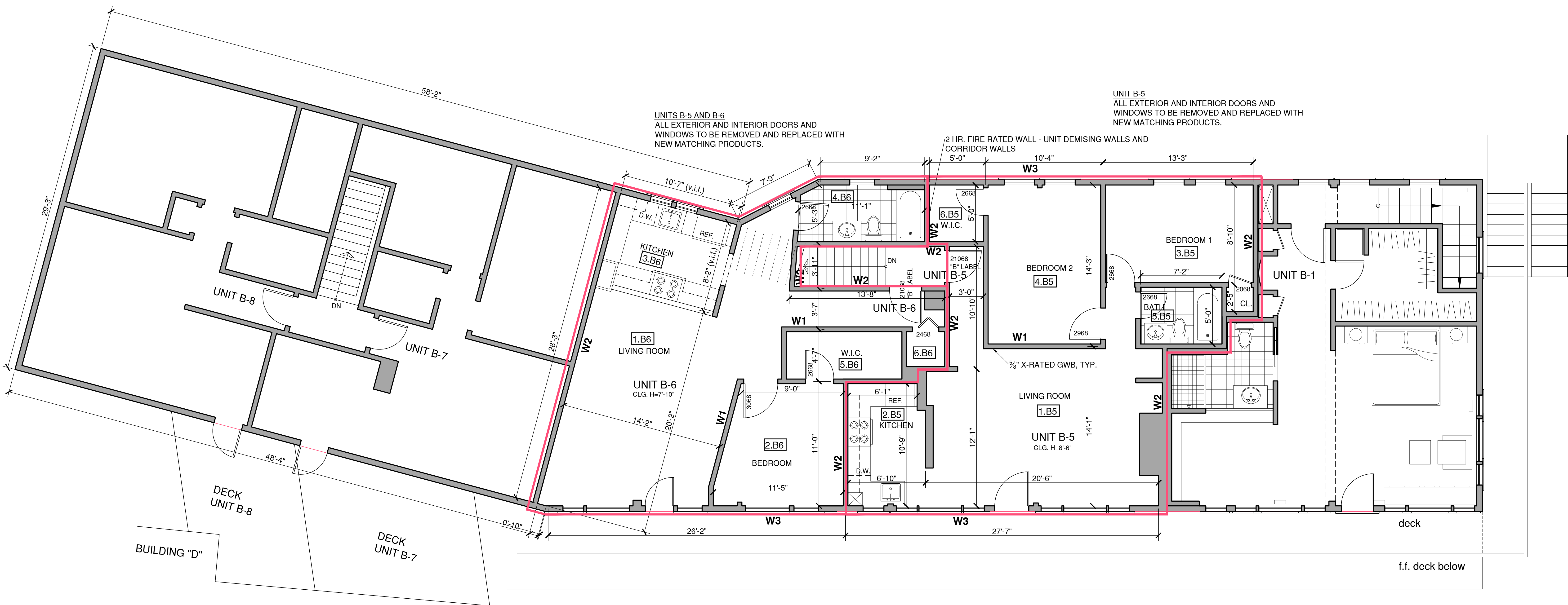
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Unit B-2 on the Second Level
Scale: $\frac{1}{8}" = 1'-0"$
Date: January 15, 2014

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ARCHITECT, AIA
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Marblehead, MA 01945
781.631.5593
FAX: 781.639.8070

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A.2.a



BUILDING CODE CLASSIFICATION
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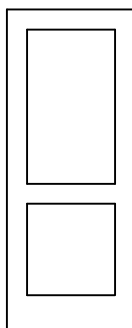
INSULATION VALUES:
BUILDING ENVELOPE TO SATISFY REQUIREMENTS OF THE 780 CMR, CHAPTER 61, AND 2009
INTERNATIONAL ENERGY CONSERVATION CODE
- BUILDING ENVELOPE TO COMPLY WITH THE PRESCRIPTIVE ENVELOPE COMPONENT CRITERIA FOR
NEW BUILDINGS :
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 FLOOR.....R-30
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AND SAFETY OF ANY PERSONS UPON THE SITE.
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RESPONSIBLE FOR
THE COORDINATION OF ALL SUBCONTRACTORS AND THEIR WORK.
- CONTRACTOR SHALL CAREFULLY PATCH AND MATCH ADJACENT FINISHES AND MATERIALS AND
ASSEMBLIES DISTURBED AS A RESULT OF WORK.
- EXACT LOCATION OF THE NEW LIGHTING FIXTURES TO BE DETERMINED IN DIRECT COORDINATION
WITH THE OWNERS.

INTERIOR DOORS:
SEE FLOOR PLANS FOR DOOR SIZES

TYPICAL INTERIOR DOORS 1-3/8" THICK, COMPOSITE / MOLDED DOOR
RECESSED 2-PANEL, PAINT GRADE



NOTE:
ALL INTERIOR DOORS TO BE REMOVED AND
REPLACED WITH NEW MATCHING PRODUCTS.

NOTE:
UNITS B-5 AND B-6: ALL WINDOWS, EXTERIOR AND INTERIOR DOORS TO
BE REMOVED AND REPLACED WITH NEW MATCHING PRODUCTS.
ALL UNIT ENTRY DOORS: FIRE RATED DOORS TYPE "B", PAINT GRADE

DESIGN LOADS:
ROOF SNOW LOAD = 45 PSF
ROOF DEAD LOAD = 20 PSF
FLOOR LIVE LOAD = 40 PSF
FLOOR DEAD LOAD = 10 PSF
SOIL BEARING PRESSURE ALLOWABLE = 3,000 PSF

ROOM FINISH SCHEDULE												
ROOM No.	SPACE NAME	FLOOR		BASE	WALL		CEILING		CEILING HEIGHT	REMARKS	REMARKS	ROOM No.
		MATERIAL	FINISH		MATERIAL	FINISH	MATERIAL	FINISH				
	UNIT B-10											
1-B10	LIVING	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	1-B10
2-B10	BEDROOM	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	2-B10
3-B10	VESTIBULE	CEM. BOARD	CT	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"			3-B10
4-B10	COMMON BATHROOM	CEM. BOARD	CT	WD	M.R. / CT	-	M.R. , PL	P	+/- 8'-0"	NOTES# 1, 3, 4	M.R. GWB WALL AND CEILING	4-B10
5-B10	LAUNDRY	CEM. BOARD	CT	WD	M.R. / CT	-	M.R. , PL	P	+/- 8'-0"	NOTES# 1, 3, 4	M.R. GWB WALL AND CEILING	5-B10
6-B10	MASTER BATH	CEM. BOARD	CT	WD	M.R. / CT	-	M.R. , PL	P	+/- 8'-0"	NOTES# 1, 3, 4	M.R. GWB WALL AND CEILING	6-B10
7-B10	WALK-IN CLOSET	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"		5/8" X RATED GWB AT GARAGE WALL	7-B10
	UNIT B-2											
1-B2	LIVING	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 9'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	1-B2
2-B2	BEDROOM	CPT (CARPET)	-	WD	GWB, PL	P	GWB, PL	P	+/- 9'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	2-B2
3-B2	KITCHEN	VCT (VINYL C. TILE)	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 9'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	3-B2
4-B2	COMMON BATHROOM	CEM. BOARD	CT (CE. TILES)	WD	M.R. / CT	-	M.R. , PL	P	+/- 9'-0"	NOTES# 1, 3, 4	M.R. GWB WALL AND CEILING	4-B2
5-B2	WALK-IN CLOSET	SHV (SHEET VINYL)	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 9'-0"		5/8" X RATED GWB AT GARAGE WALL	5-B2
	UNIT B-5											
1-B5	LIVING	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	1-B5
2-B5	KITCHEN	VCT (VINYL C. TILE)	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	2-B5
3-B5	BEDROOM 1	CPT (CARPET)	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	3-B5
4-B5	BEDROOM 2	CPT (CARPET)	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	4-B5
5-B5	COMMON BATHROOM	CEM. BOARD	CT	WD	M.R. / CT	-	M.R. , PL	P	+/- 8'-0"	NOTES# 1, 3, 4	M.R. GWB WALL AND CEILING	5-B5
6-B5	WALK-IN CLOSET	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"		5/8" X RATED GWB AT GARAGE WALL	6-B5
	UNIT B-6											
1-B6	LIVING	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	1-B6
2-B6	BEDROOM	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	2-B6
3-B6	KITCHEN	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	5/8" X RATED GWB WALL AND CEILING	3-B6
4-B6	COMMON BATHROOM	CEM. BOARD	CT	WD	M.R. / CT	-	M.R. , PL	P	+/- 8'-0"	NOTES# 1, 3, 4	M.R. GWB WALL AND CEILING	4-B6
5-B6	WALK-IN CLOSET	ENGINEERED HWD	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"		5/8" X RATED GWB AT GARAGE WALL	5-B6
	COMMON CORRIDORS	CARPET	PREFINISHED	WD	GWB, PL	P	GWB, PL	P	+/- 8'-0"	NOTE #2	2 HR FIRE RATED WALLS	
FINISH SCHEDULE LEGEND												
CONC	EXPOSED CONCRETE	GWB	GYPSUM WALL BOARD	NOTES #1. PROVIDE THRESHOLDS MADE OF THE MATERIAL IDENTICAL TO THE ADJACENT FLOOR FINISH AT DOORS WHERE FLOOR TRANSITIONS TO TILE OR STONE #2. PROVIDE TYPE "X" GWB AT WALLS AND CEILINGS INDICATED TO BE FIRE RATED - SEE DRAWINGS #3. WHERE CERAMIC OR STONE TILE IS INDICATED FOR WALLS PROVIDE 1/2" THICK CEMENT BACKER BOARD IN LIEU OF GWB OR BLUEBOARD #4. WHERE CERAMIC TILE OR STONE IS INDICATED FOR FLOORS PROVIDE UNDERLAYMENT OVER STRUCTURAL SUB-FLOOR #5. WHERE WOOD FLOORING TRANSITIONS TO CERAMIC OR STONE TILE FLOORING PROVIDE A WOOD TRANSITION STRIP (WHERE A DOOR IS PRESENT SEE NOTE # 1 ABOVE)								
WDFL	HARDWOOD STRIP FLOORING	MR	MOISTURE RESISTANT GWB									
CPT	CARPET	PL	SKIM COAT PLASTER OVER BLUE BOARD									
CT	CERAMIC TILE											
PCT	PORCELAIN TILE											
ST	STONE TILE											
VCT	VINYL COMPOSITION TILE	P	PAINT									
RBR	RUBBER TILE	EPOX	EPOXY PAINT									
SHV	SHEET VINYL	FWC	FABRIC/VINYL/PAPER WALL COVERING									
		PWD	EXPOSED PLYWOOD									
		ES	EXPOSED STRUCTURE									
		HPL	HIGH PRESSURE LAMINATE									
		S	SEALER									
		VAR	POLYURETHENE VARNISH									
		SCL	SUSPENDED CEILING SYSTEM									
WD	WOOD			GENERAL NOTES • PROVIDE SOUND INSULATION IN THE CAVITY OF ALL INTERIOR WALLS • SEE DRAWINGS BELOW FOR THE DETAILS AND PROFILES OF INTERIOR TRIM								
VBC	VINYL BASE COVE											
VBS	VINYL BASE STRAIGHT											
HWD	HARDWOOD											

STRUCTURAL NOTES:

GENERAL:
ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE MASSACHUSETTS STATE BUILDING CODE AND THE REFERENCE STANDARDS INCLUDED THEREIN AS WELL AS ALL OTHER CODES AND ORDINANCES THAT ARE APPLICABLE TO THIS PROJECT.

THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY VARIATIONS OR SUBSTITUTIONS OF MATERIALS OR DETAILS FROM THOSE INDICATED ON THE DRAWINGS MAY BE MADE ONLY WITH PRIOR APPROVAL OF THE PROJECT ARCHITECT.

SHOP DRAWINGS FOR REINFORCING STEEL (INCLUDING ALL ACCESSORIES) SHALL BE SUBMITTED TO THE ARCHITECT AND A STAMPED APPROVAL RECEIVED BEFORE FABRICATION CAN PROCEED.

NO MAIN FRAMING OR STRUCTURAL MEMBERS ARE TO BE MODIFIED, ALTERED OR CUT WITHOUT THE APPROVAL OF THE PROJECT ARCHITECT.

FOR EXACT LOCATION OF FLOOR AND ROOF OPENINGS, SEE ARCHITECTURAL AND UTILITY DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOB SAFETY DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHEETING, SHORING AND GUYING STRUCTURES, BARRIERS AND SIGNAGE.

ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND SHOP DRAWINGS AND SPECIFICATIONS.

UNLESS OTHERWISE INDICATED, DETAILS SHOWN ON ANY DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, CO-ORDINATION OF OTHER TRADES AND TECHNIQUES TO PRODUCE A SOUND AND QUALITY BUILDING. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR OR RESPONSIBLE TRADES.

DESIGN LOADS:

ROOFS - SNOW 45 PSF ON MAIN ROOF (WITH ALLOWANCE FOR DRIFTING)
WIND LOAD - BASIC WIND 110 MPH, EXPOSURE B - BASIC PRESSURE 21.9 PSF FOR HEIGHT 0 -> 50 FT.

LIVE LOADS
1. FLOORS (RESIDENTIAL) - 40 PSF
2. NON-HABITABLE ATTIC - 30 PSF
3. EXTERIOR DECKS - 60 PSF

FOUNDATIONS:
EXCAVATE TO LINES AND GRADES REQUIRED TO PROPERLY INSTALL THE FOUNDATIONS ON UNDISTURBED SOIL OR CONTROLLED STRUCTURAL BACKFILL APPROVED BY THE ENGINEER. REMOVE ALL SILTY TOPSOIL OR OBJECTIONABLE MATERIAL FROM UNDER SLABS ON GRADE. ALL EXCAVATIONS SHALL BE DRY BEFORE PLACING ANY CONCRETE.

EXTERIOR WALL FOOTINGS ARE TO BE PLACED ON APPROVED SOIL, AT A MINIMUM DEPTH OF 4 FT. BELOW THE LOWEST ADJACENT GROUND SURFACE EXPOSED TO FREEZING. ANY ADJUSTMENTS OF ELEVATIONS OF FOOTINGS DUE TO FIELD CONDITIONS MUST HAVE THE EXPRESSED APPROVAL OF THE ARCHITECT. ESTIMATED ELEVATION OF BOTTOM OF FOOTINGS INDICATED THUS [00'-0"].

SOIL BEARING CAPACITY - MATERIAL, UNDISTURBED SOIL OR CONTROLLED STRUCTURAL BACKFILL HAVING ALLOWABLE BEARING PRESSURE OF 4000 PSF.

BACKFILL THE EXCAVATION WITH APPROVED GRANULAR MATERIAL PLACED IN 6 INCH LAYERS AND COMPACTED TO 96% DENSITY AT OPTIMUM MOISTURE CONTENT, AS DEFINED BY ASTM D1557, METHOD D AFTER BOTTOM OF EXCAVATION HAS BEEN APPROVED BY ARCHITECT.

BACKFILLING AGAINST FOUNDATION WALLS TO BE DONE ONLY AFTER WALLS ARE BRACED TO PREVENT MOVEMENT.

CONCRETE WORK:
A. CODE CONFORMANCE:
COMPLY WITH THE LATEST RECOMMENDATIONS OF THE FOLLOWING STANDARDS:

ACI 301 - STRUCTURAL CONCRETE FOR BUILDINGS
ACI 315 - DETAILING REINFORCING STEEL
ACI 347 - FORMWORK
ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 322 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL PLAIN CONCRETE

B. MATERIALS:
CONCRETE: APPROVED READY MIXED CONCRETE HAVING AN ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS FOR FOUNDATIONS. SLUMP 3-5 INCHES. MAXIMUM 5 ½ SACKS CEMENT PER CUBIC YARD. EXTERIOR SLABS, GARAGE SLABS, STEPS, PORCHES SHALL HAVE A COMPRESSIVE STRENGTH OF 3500 PSI, AIR ENTRAINED, AT 28 DAYS.

REINFORCING: DEFORMED BARS - ASTM A615 GRADE 60 EXCEPT TIES AND STIRRUPS MAY BE GRADE 40. WELDED WIRE FABRIC - ASTM A185.

FORMWORK: SMOOTH PLYWOOD FORMS FOR EXPOSED SLABS OR VERTICAL SURFACES. BOARD FORMS FOR FOOTINGS OR UNEXPOSED CONCRETE SURFACES. NO EARTH FORMS PERMITTED.

GROUT: NON-METALLIC, NON-SHRINK TYPE UNDER BASE PLATES OR BEARING PLATES.

C. EXECUTION:
CONCRETE: PLACE CONCRETE BY APPROVED METHODS OF ACI 304.

REINFORCING: PLACE REINFORCING USING STANDARD BAR SUPPORTS TO PROVIDE PROPER CLEARANCE AND PREVENT DISPLACEMENT DURING CONCRETE OPERATIONS. LAP CONTINUOUS BARS 40 DIAMETERS.

MINIMUM CONCRETE COVER:
CONCRETE PLACED AGAINST EARTH - 3 IN.
FORMED CONCRETE EXPOSED TO EARTH, WEATHER OR WATER - 2 IN.
SLABS ON GRADE - 1 IN. FROM TOP
FRAMED SLABS, NOT EXPOSED TO WEATHER - ¾ IN., EXPOSED TO WEATHER - 1 IN.

FORMWORK: PROPERLY BRACE AND SHORE FORMWORK TO MAINTAIN ALIGNMENT AND TOLERANCES IN ACCORDANCE WITH ACI 347.

REINFORCING BARS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS".

ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A185. LAP TWO SQUARES AT ALL JOINTS AND TIE AT 3'-0" ON CENTER.

PROVIDE TWO #5 BARS EACH SIDE OF ALL OPENINGS IN WALLS AND SLABS. BARS TO EXTEND 24" BEYOND EDGE OF OPENING. (FOR SIZE AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS).

DETAILS NOT SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL (ACI 315).

D. QUALITY CONTROL:
CONTRACTOR SHALL MAKE PROVISIONS TO HAVE FOUR CYLINDERS CAST FOR EACH 50 CUBIC YARDS OF CONCRETE POURED OR FOR ANY ONE DAY'S OPERATION.

TESTING LABORATORY SHALL BE RESPONSIBLE FOR MAKING AND CURING SPECIMENS IN CONFORMANCE TO ASTM C31 AND TESTING SPECIMENS IN ACCORDANCE WITH ASTM C39.

STRUCTURAL STEEL:
A. CODE CONFORMANCE:
AISC - "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING."

AWS - D1.1-80 STRUCTURAL WELDING SPECIFICATIONS.

B. MATERIALS:
STRUCTURAL SHAPES, PLATES - ASTM A36.

PIPE COLUMNS - ASTM A53, GRADE B, TYPE E OR S, SCHEDULE 40.
STRUCTURAL TUBES ASTM A500.

BOLTS: CONNECTIONS - ASTM A325X
ANCHOR BOLTS - ASTM A307

WELDING ELECTRODES - E 70XX SERIES.

PAINT, APPROVED PRIMER - 2 MILS THICK.

C. EXECUTION:
FABRICATION: SHOP FABRICATE TO GREATEST EXTENT POSSIBLE BY WELDING. PROVIDE ALL BEAM STIFFENERS, COLUMN CAPS AND BASES, HOLES AND CONNECTIONS. SUBMIT SHOP DRAWINGS FOR STEEL MEMBERS PREPARED FROM FIELD DIMENSIONS, FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

ERECTION: PROVIDE ANCHOR BOLTS, LEVELING PLATES AND ALL NECESSARY HARDWARE TO ERECT THE STEEL PLUMB AND SQUARE. PROVIDE TEMPORARY BRACING UNTIL FLOORS OR WALLS ARE IN PLACE.

CONTRACTOR SHALL FIELD TOUCH UP ALL ABRASIONS, BURNS, AND SIMILAR DEFECTS IN PAINT OF THE STRUCTURAL STEEL.

LINTELS SHALL BE PROVIDED OVER ALL OPENINGS IN MASONRY WALLS ACCORDING TO THE FOLLOWING SCHEDULE UNLESS OTHERWISE NOTED:

OPENINGS UP TO 3'-0" L3 ½ X 3 ½ X 5/16 3 ½" LEG VERT.
3'-0" TO 4'-6" L4 X 3 ½ X 5/16 4" LEG VERT.
4'-7" TO 6'-0" L5 X 3 ½ X 5/16 5" LEG VERT.
6'-1" TO 8'-0" L6 X 3 ½ X 5/16 6" LEG VERT.
8'-1" TO 10'-0" L7 X 3 ½ X 5/16 7" LEG VERT.
10'-1" TO 12'-0" L7 X 4 X 3/8 7" LEG VERT.
PROVIDE 8" BEARING EACH END OF LINTEL AND ONE L FOR EACH 4" OF WALL THICKNESS.

STRUCTURAL LUMBER:
A. CODE CONFORMANCE:
NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" INCLUDING SUPPLEMENT.

AMERICAN INSTITUTE OF TIMBER CONSTRUCTION "TIMBER CONSTRUCTION STANDARDS" - AITC 100.

U.S. DEPARTMENT OF COMMERCE - PS 20 FOR LUMBER.

U.S. DEPARTMENT OF COMMERCE - PS 166 FOR SOFTWOOD PLYWOOD.

U.S. DEPARTMENT OF COMMERCE - PS 56 FOR STRUCTURAL GLUED LAMINATED TIMBER.

AMERICAN WOOD PRESERVES INSTITUTE - ST-1 STANDARDS.

B. MATERIALS:
SOLID LUMBER (19% MAXIMUM MOISTURE CONTENT)
STUDS - 2X4 OR 2X6; HEM-FIR #2 OR BETTER.
MEMBERS - 2" TO 4" THICK, 5" AND WIDER; SPF SELECT STRUCTURAL #2 OR BETTER.
POSTS - SPF SELECT STRUCTURAL #2 OR BETTER.
BUILT-UP BEAMS - SPF SELECT STRUCTURAL #2 OR BETTER [FbMIN = 1200 PSI, EMIN = 1400 KSI]

LAMINATED WOOD HEADERS AND BEAMS - "MICROLLAM LVL" HEADERS AND BEAMS AS SUPPLIED BY TRUS JOIST MACMILLAN CORPORATION, OR EQUIVALENT. [FbMIN = 2700 PSI, EMIN = 2000 KSI]

JOISTS - "TJI" JOISTS AS SUPPLIED BY TRUS JOIST MACMILLAN CORP., OR EQUIVALENT.

BOLTS, NUTS AND WASHERS - ASTM A307, HOT DIPPED GALVANIZED CONFORMING TO ASTM A153.

NAILS - COMMON WIRE, EXCEPT BARBED NAILS AT PLYWOOD SHEATHING. GALVANIZED NAILS AT EXPOSED FRAMING.

METAL CONNECTORS - APPROVED ITEMS OF PROPER TYPE AND GAUGE AS INDICATED ON DRAWING, HOT DIPPED GALVANIZED.

PLYWOOD - APA RATED SHEATHING WITH EXTERIOR GLUE.
ROOF 5/8" THICK -- 32/16
WALLS ½ " THICK -- 32/16
SUB FLOORS ¾" THICK -- 32/16

PRESSURE TREATED WOOD AT ALL EXPOSED FRAMING WITH APPROVED CLEAR WATER BORNE PRESERVATIVE. ALL MEMBERS TO BE STAMPED BY APPROPRIATE AGENCY.

C. EXECUTION:
ALL WOOD MEMBERS TO BE NAILED IN ACCORDANCE WITH MASS. STATE CODE TABLE 3606.2.3a.

PLYWOOD SHALL BE NAILED AT 6" ON CENTER AT ALL JOINTS AND EDGES AND 10" ON CENTER AT OTHER SUPPORTS. PLYWOOD SUB FLOOR SHALL BE GLUED TO JOISTS WITH APPROVED ADHESIVE BEFORE NAILING.

HURRICANE CLIPS SHALL BE PROVIDED AT ALL RAFTER ENDS. 'HI' SIMPSON

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UNIT B-10 LIGHTING FIXTURES AND ELECTRICAL RECEPTACLES:

- 26...."Lightolier" 4" recessed fixtures, trims, and lamps
9.... center light fixtures
1.... ceiling fan
2.... ductless split systems
33.....120 V, 15 Amp. receptacles
7.....120 V, 20 Amp. GFCI receptacles
13.....120 V single pole switches
12.....120 V three way switches
9.....120 V dimmer switches
2.....Panasonic exhaust fans
1.....120 V laundry receptacle
1.....240 V, 30 Amp. dryer receptacle
1.....120 / 240 V 30-circuit panel
1.....120 / 240 V 100 Amp. copper feeder
12.....15 Amp. breakers
13.....20 Amp. breakers
1.....2 pole 30 Amp. breaker

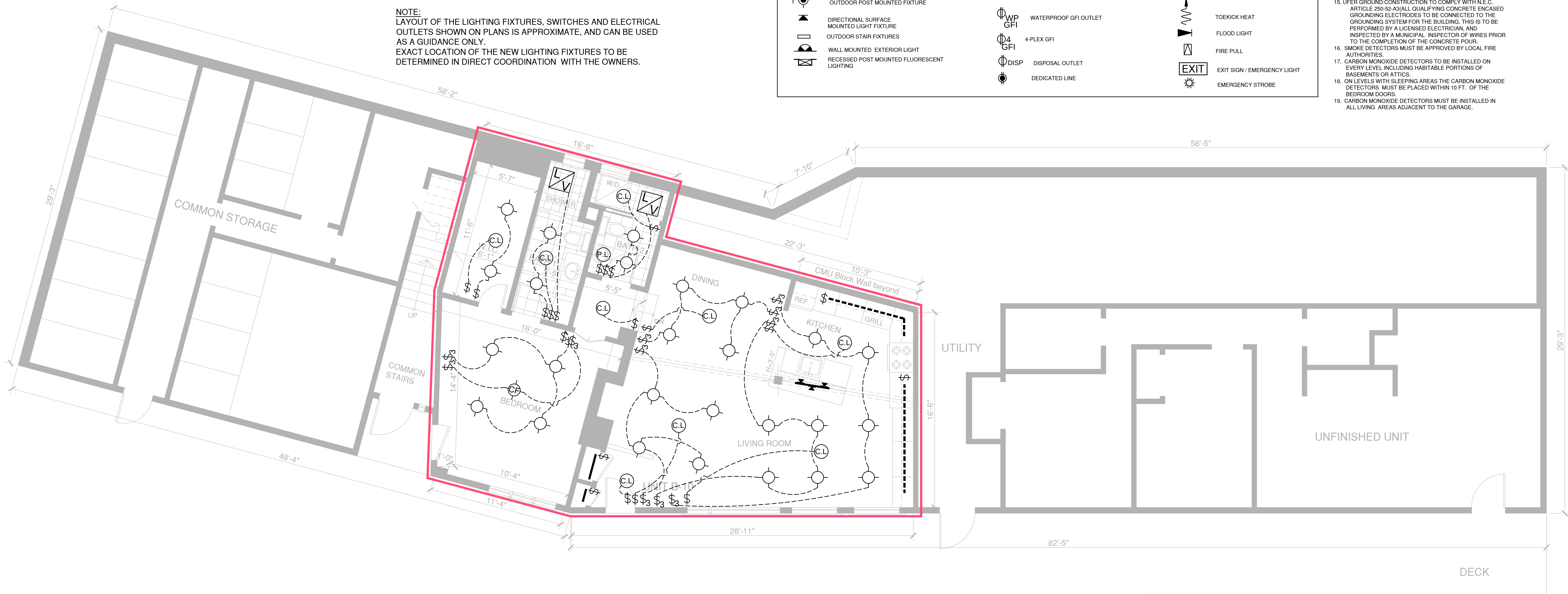
NOTE:
LAYOUT OF THE LIGHTING FIXTURES, SWITCHES AND ELECTRICAL
OUTLETS SHOWN ON PLANS IS APPROXIMATE, AND CAN BE USED
AS A GUIDANCE ONLY.
EXACT LOCATION OF THE NEW LIGHTING FIXTURES TO BE
DETERMINED IN DIRECT COORDINATION WITH THE OWNERS.

ELECTRICAL LEGEND

	UNDER COUNTER LIGHTING		ROOM CENTER LIGHT FIXTURE		CEILING MOUNTED VENT
	TRACK LIGHTING		JUNCTION BOX		CEILING LIGHT / VENT
	FLOURESCENT FIXTURE		WALL MOUNTED JUNCTION BOX		CEILING LIGHT / VENT / HEAT
	PENDANT LAMP		SINGLE POLE SWITCH		TELEPHONE JACK
	SURFACE MOUNT LIGHT FIXTURE		3-WAY SWITCH		WATERPROOF PHONE JACK
	RECESSED INCANDESCENT FIXTURE		4-WAY SWITCH		CABLE TV JACK
	WALL MOUNTED INCANDESCENT FIXTURE		DOOR SWITCH		MODEM JACK (OWNER TO SPECIFY TYPE)
	WATERPROOF RECESSED INCANDESCENT FIXTURE		DIMMER SWITCH		ETHERNET AND PHONE OUTLET (OWNER TO SPECIFY TYPE)
	DIRECTIONAL RECESSED INCANDESCENT EYEBALL FIXTURE		DUPLEX RECEPTACLE OUTLET		SMOKE DETECTOR
	DIRECTIONAL PICTURE LIGHT WALL MOUNTED FIXTURE		FLOOR MOUNTED DUPLEX OUTLET		HEAT DETECTOR
	CEILING FAN		CEILING MOUNTED DUPLEX OUTLET		CARBON MONOXIDE DETECTOR
	CEILING MOUNTED FLUORESCENT		220 VOLT DUPLEX OUTLET		TOEKICK HEAT
	OUTDOOR POST MOUNTED FIXTURE		GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET		FLOOD LIGHT
	DIRECTIONAL SURFACE MOUNTED LIGHT FIXTURE		WATERPROOF GFI OUTLET		FIRE PULL
	OUTDOOR STAIR FIXTURES		4-PLEX GFI		EXIT SIGN / EMERGENCY LIGHT
	WALL MOUNTED EXTERIOR LIGHT		DISPOSAL OUTLET		EMERGENCY STROBE
	RECESSED POST MOUNTED FLUORESCENT LIGHTING		DEDICATED LINE		

NOTE:
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- ELECTRICAL NOTES:
1. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE, IBC 2009, AND MASSACHUSETTS BUILDING AND ELECTRICAL CODES.
2. EXTERIOR SOFFIT LIGHTING TO BE WEATHERPROOF RECESSED W/ 4" APERTURE, LOW WATTAGE SODIUM OR INCANDESCENT. PROVIDE TIMER FOR ALL EXTERIOR LIGHTING.
3. SECURITY SYSTEM: PROVIDE AND INSTALL A COMPLETE SUPERVISED SECURITY SYSTEM THROUGHOUT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALARM (BURGLAR & SMOKE) INSTALLERS.
5. VENT LIGHT MANUFACTURER SHALL BE EITHER BROAN, NUTONE, OR APPROVED EQUAL. PROVIDE SEPARATE OWNER TO APPROVE FINAL NUMBER AND LOCATION OF TELEPHONE, CABLE TV, AND MODEM JACK/ COMPUTER NETWORK OUTLETS PRIOR TO INSTALLATION.
6. ALL SWITCHING AND DUPLEX DEVICES WILL BE OF THE "DECORA" ROCKER SWITCH TYPE IN WHITE COLOR THROUGHOUT.
7. WIRE ALL HVAC EQUIPMENT FOR POWER AND CONTROLS.
8. PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING FOR COMPUTER PORTS AND ENTERTAINMENT SYSTEMS.
9. WIRE ALL APPLIANCES.
10. ALL RECESSED INCANDESCENT AND WALL SCONCE LIGHTING SHALL HAVE DIMMER CONTROLS. LOCATION TO BE COORDINATED BY OWNER.
11. LIGHTING IS BY LIGHTOLIER OR EQUAL.
12. DECORATIVE LIGHT FIXTURES WILL BE SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
13. SHOP DRAWINGS AND CATALOGUE INFORMATION AS WELL AS ANY VENDOR MODIFICATIONS ON ALL EQUIPMENT AND DEVICES ARE REQUIRED PRIOR TO INSTALLATION FOR APPROVAL.
14. PROVIDE BRANCH WIRING AND CONDUIT FOR EXTERIOR LIGHTING.
15. UFER GROUND-CONSTRUCTION TO COMPLY WITH N.E.C. ARTICLE 250-52-A3(ALL QUALIFYING CONCRETE ENCASED GROUNDING ELECTRODES TO BE CONNECTED TO THE GROUNDING SYSTEM FOR THE BUILDING. THIS IS TO BE PERFORMED BY A LICENSED ELECTRICIAN, AND INSPECTED BY A MUNICIPAL INSPECTOR OF WIRES PRIOR TO THE COMPLETION OF THE CONCRETE POUR.
16. SMOKE DETECTORS MUST BE APPROVED BY LOCAL FIRE AUTHORITIES.
17. CARBON MONOXIDE DETECTORS TO BE INSTALLED ON EVERY LEVEL INCLUDING HABITABLE PORTIONS OF BASEMENTS OR ATTICS.
18. ON LEVELS WITH SLEEPING AREAS THE CARBON MONOXIDE DETECTORS MUST BE PLACED WITHIN 10 FT. OF THE BEDROOM DOORS.
19. CARBON MONOXIDE DETECTORS MUST BE INSTALLED IN ALL LIVING AREAS ADJACENT TO THE GARAGE.



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Lighting and Switching Plan of the First Level (Unit B-10)
Scale: 1/4" = 1'-0"
Date: January 15, 2014

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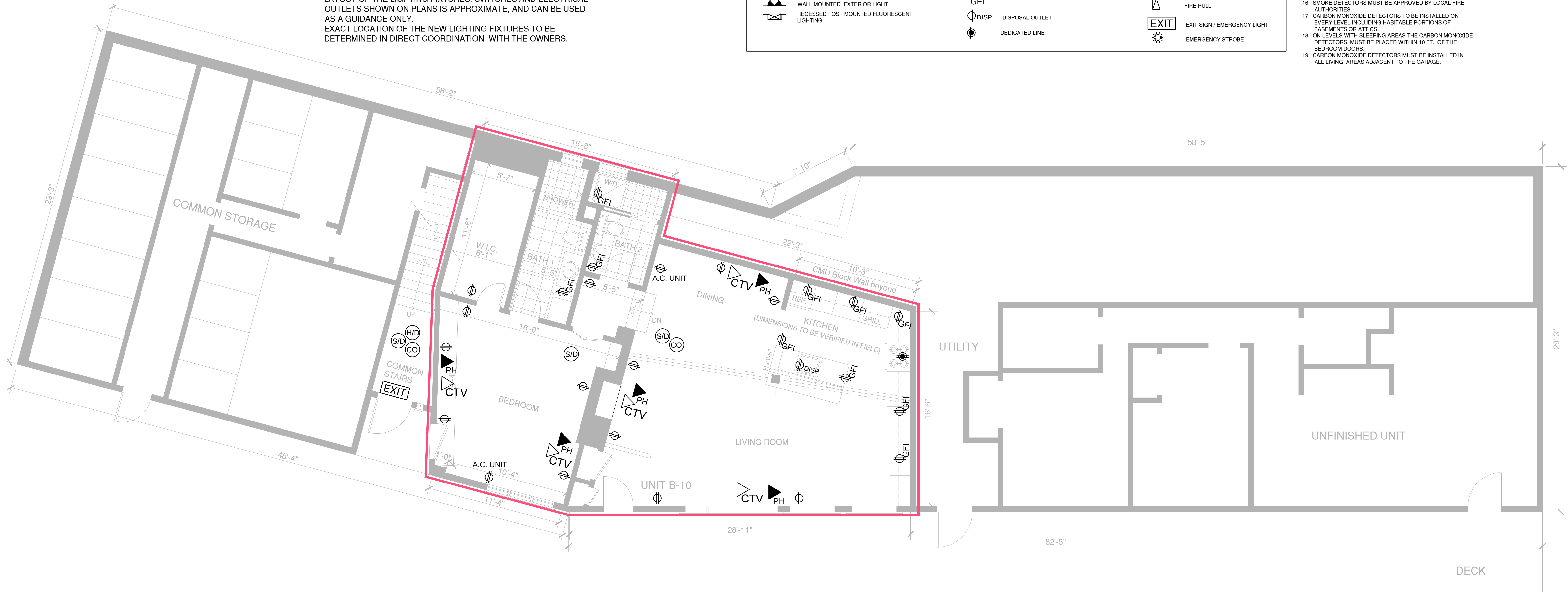
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26....."Lightolier" 4" recessed fixtures, trims, and lamps
9..... center light fixtures
1..... ceiling fan
2.... ductless split systems
33.....120 V, 15 Amp. receptacles
7.....120 V, 20 Amp. GFCI receptacles
13.....120 V single pole switches
12.....120 V three way switches
9.....120 V dimmer switches
2.....Panasonic exhaust fans
1.....120 V laundry receptacle
1.....240 V, 30 Amp. dryer receptacle
1.....120 / 240 V 30-circuit panel
1.....120 / 240 V 100 Amp. copper feeder
12.....15 Amp. breakers
13.....20 Amp. breakers
1.....2 pole 30 Amp. breaker

NOTE:
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ELECTRICAL LEGEND			
	UNDER COUNTER LIGHTING		ROOM CENTER LIGHT FIXTURE
	TRACK LIGHTING		JUNCTION BOX
	FLOURESCENT FIXTURE		WALL MOUNTED JUNCTION BOX
	PENDANT LAMP		SINGLE POLE SWITCH
	SURFACE MOUNT LIGHT FIXTURE		3-WAY SWITCH
	RECESSED INCANDESCENT FIXTURE		4-WAY SWITCH
	WALL MOUNTED INCANDESCENT FIXTURE		DOOR SWITCH
	WATERPROOF RECESSED INCANDESCENT FIXTURE		DIMMER SWITCH
	DIRECTIONAL RECESSED INCANDESCENT EYEBALL FIXTURE		DUPLEX RECEPTACLE OUTLET
	DIRECTIONAL PICTURE LIGHT WALL MOUNTED FIXTURE		FLOOR MOUNTED DUPLEX OUTLET
	CEILING FAN		CEILING MOUNTED DUPLEX OUTLET
	CEILING MOUNTED FLOURESCENT		220 VOLT DUPLEX OUTLET
	OUTDOOR POST MOUNTED FIXTURE		GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET
	DIRECTIONAL SURFACE MOUNTED LIGHT FIXTURE		WATERPROOF GFI OUTLET
	OUTDOOR STAIR FIXTURES		4-PLEX GFI
	WALL MOUNTED EXTERIOR LIGHT		DISPOSAL OUTLET
	RECESSED POST MOUNTED FLOURESCENT LIGHTING		DEDICATED LINE
			CEILING MOUNTED VENT
			CEILING LIGHT / VENT
			CEILING LIGHT / VENT / HEAT
			TELEPHONE JACK
			WATERPROOF PHONE JACK
			CABLE TV JACK
			MODEM JACK (owner to specify type)
			ETHERNET AND PHONE OUTLET (owner to specify type)
			SMOKE DETECTOR
			HEAT DETECTOR
			CARBON MONOXIDE DETECTOR
			TOEKICK HEAT
			FLOOD LIGHT
			FIRE PULL
			EXIT SIGN / EMERGENCY LIGHT
			EMERGENCY STROBE

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15. UFER GROUND/CONSTRUCTION TO COMPLY WITH N.E.C. ARTICLE 250-52.43/ALL QUALIFYING CONCRETE ENCASED GROUNDING ELECTRODES TO BE CONNECTED TO THE GROUNDING SYSTEM FOR THE BUILDING. THIS IS TO BE PERFORMED BY A LICENSED ELECTRICIAN, AND INSPECTED BY A MUNICIPAL INSPECTOR OF WIRES PRIOR TO THE COMPLETION OF THE CONCRETE POUR.
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Smoke Detectors and Electrical Outlets Plan of the First Level (Unit B-10)
Scale: 1/4" = 1'-0"
Date: January 15, 2014

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FAX: 781.639.8070

Harborside Condominiums
(Units B2, B-5, B-6, B-10)
24 Lee Street
Marblehead, MA
E.1.b

UNIT B-2 LIGHTING FIXTURES AND ELECTRICAL RECEPTACLES:

- 12....."Lightolier" 6" recessed fixtures, trims, and lamps
6..... light fixtures
4.....wall sconces
1..... ceiling fan
1.....Panasonic exhaust fan
28.....120 V, 15 Amp. receptacles
7.....120 V, 20 Amp. GFCI receptacles
14.....120 V single pole switches
10.....120 V 3-way switches
6.....120 V dimmer switches
1.....120 V laundry receptacle
1.....240 V, 30 Amp. dryer receptacle
1.....120 / 240 V 30-circuit panel
5.....120 V under counter lights
10.....15 Amp. breakers
11.....20 Amp. breakers
1.....2 pole 30 Amp. breaker
1.....240 V 100 Amp. copper feeder

COMMON AREA LIGHTING FIXTURES AND EL. RECEPTACLES:

- 4.....120 V emergency lights
2.....120 V exit signs
8.....120 V 6" recessed lights, trims and lamps
4.....120 V, 20 Amp. branch circuits

NOTE:

LAYOUT OF THE LIGHTING FIXTURES, SWITCHES AND ELECTRICAL OUTLETS SHOWN ON PLANS IS APPROXIMATE, AND CAN BE USED AS A GUIDANCE ONLY.
EXACT LOCATION OF THE NEW LIGHTING FIXTURES TO BE DETERMINED IN DIRECT COORDINATION WITH THE OWNERS.

ELECTRICAL LEGEND

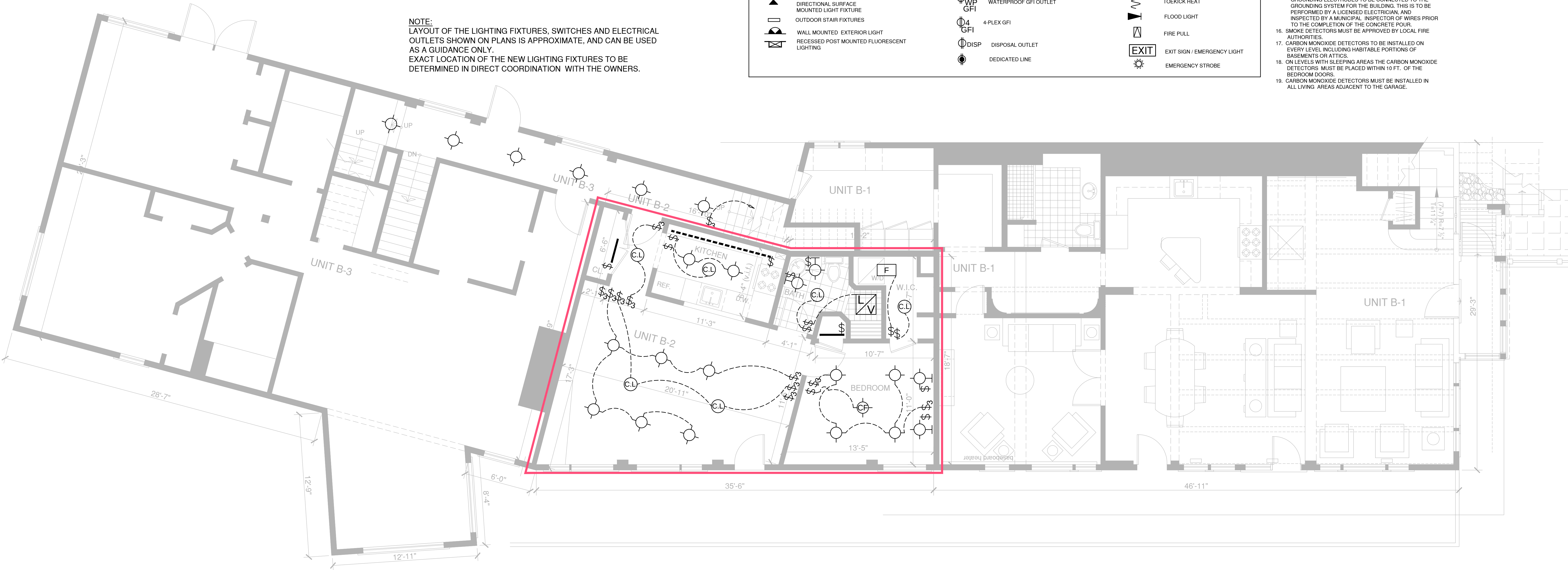
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	PENDANT LAMP		SINGLE POLE SWITCH		TELEPHONE JACK
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	RECESSED INCANDESCENT FIXTURE		4-WAY SWITCH		CABLE TV JACK
	WALL MOUNTED INCANDESCENT FIXTURE		DOOR SWITCH		MODEM JACK (OWNER TO SPECIFY TYPE)
	WATERPROOF RECESSED INCANDESCENT FIXTURE		DIMMER SWITCH		ETHERNET AND PHONE OUTLET (OWNER TO SPECIFY TYPE)
	DIRECTIONAL RECESSED INCANDESCENT EYEBALL FIXTURE		DUPLEX RECEPTACLE OUTLET		SMOKE DETECTOR
	DIRECTIONAL PICTURE LIGHT WALL MOUNTED FIXTURE		FLOOR MOUNTED DUPLEX OUTLET		HEAT DETECTOR
	CEILING FAN		CEILING MOUNTED DUPLEX OUTLET		CARBON MONOXIDE DETECTOR
	CEILING MOUNTED FLUORESCENT		220 VOLT DUPLEX OUTLET		TOEKICK HEAT
	OUTDOOR POST MOUNTED FIXTURE		GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET		FLOOD LIGHT
	DIRECTIONAL SURFACE MOUNTED LIGHT FIXTURE		WATERPROOF GFI OUTLET		FIRE PULL
	OUTDOOR STAIR FIXTURES		4-PLEX GFI		EXIT SIGN / EMERGENCY LIGHT
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	RECESSED POST MOUNTED FLUORESCENT LIGHTING		DEDICATED LINE		

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- PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING FOR COMPUTER PORTS AND ENTERTAINMENT SYSTEMS.
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Lighting and Switching Plan of the Second Level (Unit B-2)
Scale: 1/4" = 1'-0"
Date: January 15, 2014

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24 Lee Street
Marblehead, MA

E.2.a

UNIT B-2 LIGHTING FIXTURES AND ELECTRICAL RECEPTACLES:

- 12....."Lightolier" 6" recessed fixtures, trims, and lamps
- 6..... light fixtures
- 4.....wall sconces
- 1..... ceiling fan
- 1.....Panasonic exhaust fan
- 28.....120 V, 15 Amp. receptacles
- 7.....120 V, 20 Amp. GFCI receptacles
- 14.....120 V single pole switches
- 10.....120 V 3-way switches
- 6.....120 V dimmer switches
- 1.....120 V laundry receptacle
- 1.....240 V, 30 Amp. dryer receptacle
- 1.....120 / 240 V 30-circuit panel
- 5.....120 V under counter lights
- 10.....15 Amp. breakers
- 11.....20 Amp. breakers
- 1.....2 pole 30 Amp. breaker
- 1.....240 V 100 Amp. copper feeder

COMMON AREA LIGHTING FIXTURES AND EL. RECEPTACLES:

- 4.....120 V emergency lights
- 2.....120 V exit signs
- 8.....120 V 6" recessed lights, trims and lamps
- 4.....120 V, 20 Amp. branch circuits

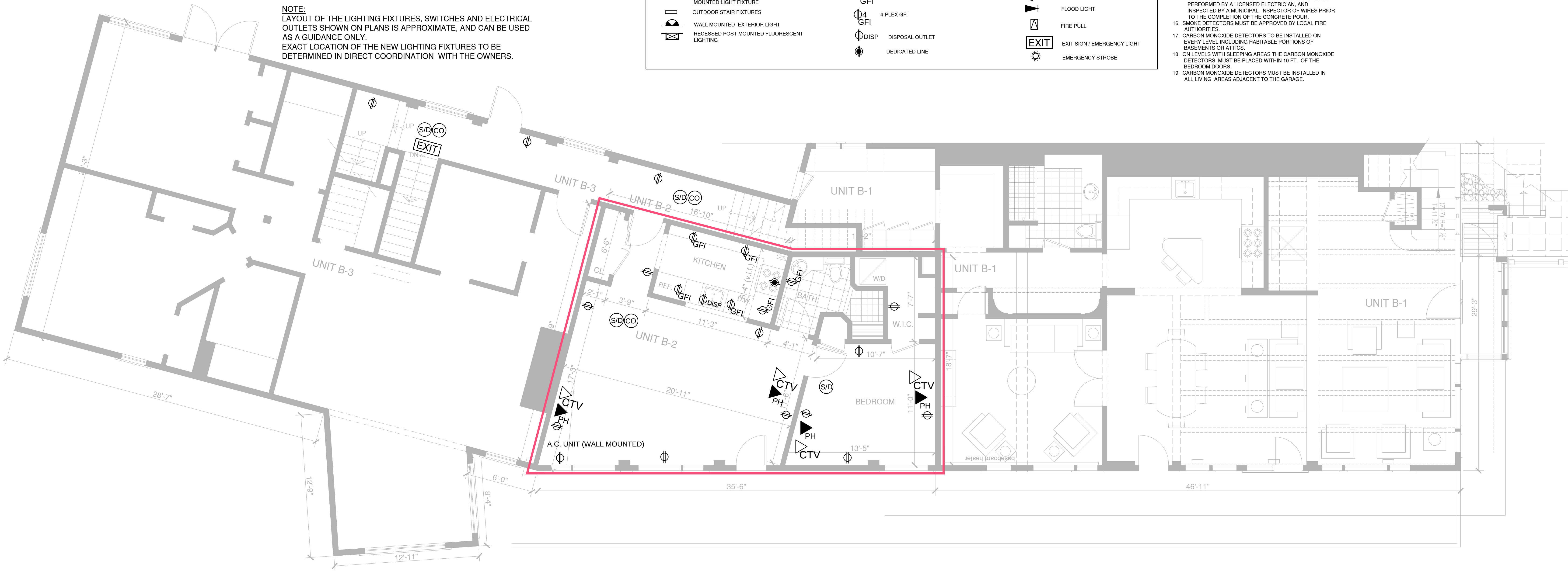
NOTE:
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EXACT LOCATION OF THE NEW LIGHTING FIXTURES TO BE
DETERMINED IN DIRECT COORDINATION WITH THE OWNERS.

ELECTRICAL LEGEND

	UNDER COUNTER LIGHTING		ROOM CENTER LIGHT FIXTURE		CEILING MOUNTED VENT
	TRACK LIGHTING		JUNCTION BOX		CEILING LIGHT / VENT
	FLOURESCENT FIXTURE		WALL MOUNTED JUNCTION BOX		CEILING LIGHT / VENT / HEAT
	PENDANT LAMP		SINGLE POLE SWITCH		TELEPHONE JACK
	SURFACE MOUNT LIGHT FIXTURE		3-WAY SWITCH		WATERPROOF PHONE JACK
	RECESSED INCANDESCENT FIXTURE		4-WAY SWITCH		CABLE TV JACK
	WALL MOUNTED INCANDESCENT FIXTURE		DOOR SWITCH		MODEM JACK (OWNER TO SPECIFY TYPE)
	WATERPROOF RECESSED INCANDESCENT FIXTURE		DIMMER SWITCH		ETHERNET AND PHONE OUTLET (OWNER TO SPECIFY TYPE)
	DIRECTIONAL RECESSED INCANDESCENT EYEBALL FIXTURE		DUPLEX RECEPTACLE OUTLET		SMOKE DETECTOR
	DIRECTIONAL PICTURE LIGHT WALL MOUNTED FIXTURE		FLOOR MOUNTED DUPLEX OUTLET		HEAT DETECTOR
	CEILING FAN		CEILING MOUNTED DUPLEX OUTLET		CARBON MONOXIDE DETECTOR
	CEILING MOUNTED FLUORESCENT		220 VOLT DUPLEX OUTLET		TOEKICK HEAT
	OUTDOOR POST MOUNTED FIXTURE		GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET		FLOOD LIGHT
	DIRECTIONAL SURFACE MOUNTED LIGHT FIXTURE		WATERPROOF GFI OUTLET		FIRE PULL
	OUTDOOR STAIR FIXTURES		4-PLEX GFI		EXIT SIGN / EMERGENCY LIGHT
	WALL MOUNTED EXTERIOR LIGHT		DISPOSAL OUTLET		EMERGENCY STROBE
	RECESSED POST MOUNTED FLUORESCENT LIGHTING		DEDICATED LINE		

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 - SECURITY SYSTEM: PROVIDE AND INSTALL A COMPLETE SUPERVISED SECURITY SYSTEM THROUGHOUT.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALARM (BURGLAR & SMOKE) INSTALLERS.
 - VENT-LIGHT MANUFACTURER SHALL BE EITHER BROAN, NUTONE, OR APPROVED EQUAL. PROVIDE SEPARATE OWNER TO APPROVE FINAL NUMBER AND LOCATION OF TELEPHONE, CABLE TV, AND MODEM JACK/ COMPUTER NETWORK OUTLETS PRIOR TO INSTALLATION.
 - ALL SWITCHING AND DUPLEX DEVICES WILL BE OF THE "DECORA" ROCKER SWITCH TYPE IN WHITE COLOR THROUGHOUT.
 - WIRE ALL HVAC EQUIPMENT FOR POWER AND CONTROLS.
 - PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING FOR COMPUTER PORTS AND ENTERTAINMENT SYSTEMS.
 - WIRE ALL APPLIANCES.
 - ALL RECESSED INCANDESCENT AND WALL SCONCE LIGHTING SHALL HAVE DIMMER CONTROLS. LOCATION TO BE COORDINATED BY OWNER.
 - LIGHTING IS BY LIGHTOLIER OR EQUAL.
 - DECORATIVE LIGHT FIXTURES WILL BE SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
 - SHOP DRAWINGS AND CATALOGUE INFORMATION AS WELL AS ANY VENDOR MODIFICATIONS ON ALL EQUIPMENT AND DEVICES ARE REQUIRED PRIOR TO INSTALLATION FOR APPROVAL.
 - PROVIDE BRANCH WIRING AND CONDUIT FOR EXTERIOR LIGHTING.
 - USE GROUND-CONSTRUCTION TO COMPLY WITH N.E.C. ARTICLE 250-52 AS ALL QUALIFYING CONCRETE ENCASED GROUNDING ELECTRODES TO BE CONNECTED TO THE GROUNDING SYSTEM FOR THE BUILDING. THIS IS TO BE PERFORMED BY A LICENSED ELECTRICIAN, AND INSPECTED BY A MUNICIPAL INSPECTOR OF WIRES PRIOR TO THE COMPLETION OF THE CONCRETE POUR.
 - SMOKE DETECTORS MUST BE APPROVED BY LOCAL FIRE AUTHORITIES.
 - CARBON MONOXIDE DETECTORS TO BE INSTALLED ON EVERY LEVEL INCLUDING HABITABLE PORTIONS OF BASEMENTS OR ATTICS.
 - ON LEVELS WITH SLEEPING AREAS THE CARBON MONOXIDE DETECTORS MUST BE PLACED WITHIN 10 FT. OF THE BEDROOM DOORS.
 - CARBON MONOXIDE DETECTORS MUST BE INSTALLED IN ALL LIVING AREAS ADJACENT TO THE GARAGE.



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Smoke Detectors and Electrical Outlets Plan of the Second Level (Unit B-2)

Scale: 1/4" = 1'-0"
Date: January 15, 2014

R Z A
ROBERT ZARELLI
ARCHITECT, AIA
20 Prospect Street
Marblehead, MA 01945
781.631.5593
FAX: 781.639.8070

Harborside Condominiums
(Units B2, B-5, B-6, B-10)
24 Lee Street
Marblehead, MA

E.2.b

NOTE:
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EXACT LOCATION OF THE NEW LIGHTING FIXTURES TO BE
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UNIT B-5 LIGHTING FIXTURES AND ELECTRICAL RECEPTACLES:

- 10....."Lightolier" 4" recessed fixtures, trims, and lamps
- 7.... light fixtures
- 4....wall sconces
- 1.... ceiling fan
- 1.....Panasonic exhaust fan
- 30.....120 V, 15 Amp. receptacles
- 7.....120 V, 20 Amp. GFCI receptacles
- 14.....120 V single pole switches
- 6.....120 V 3-way switches
- 4.....120 V dimmer switches
- 4.....120 V under counter lights
- 1.....120 V laundry circuit
- 1.....240 V, 30 Amp. dryer circuit
- 1.....120 / 240 V 100 Amp. 30-circuit panel
- 9.....120 V, 15 Amp. breakers
- 11.....120 V, 20 Amp. breakers
- 1.....2 pole 30 Amp. breaker
- 1.....240 V 100 Amp. copper feeder

UNIT B-6 LIGHTING FIXTURES AND ELECTRICAL RECEPTACLES:

- 18....."Lightolier" 4" recessed fixtures, trims, and lamps
- 4.... light fixtures
- 3.....wall sconces
- 1.... ceiling fan
- 1.....Panasonic exhaust fan
- 26.....120 V, 15 Amp. receptacles
- 8.....120 V, 20 Amp. GFCI receptacles
- 12.....120 V single pole switches
- 4.....120 V 3-way switches
- 4.....120 V dimmer switches
- 1.....120 V laundry circuit
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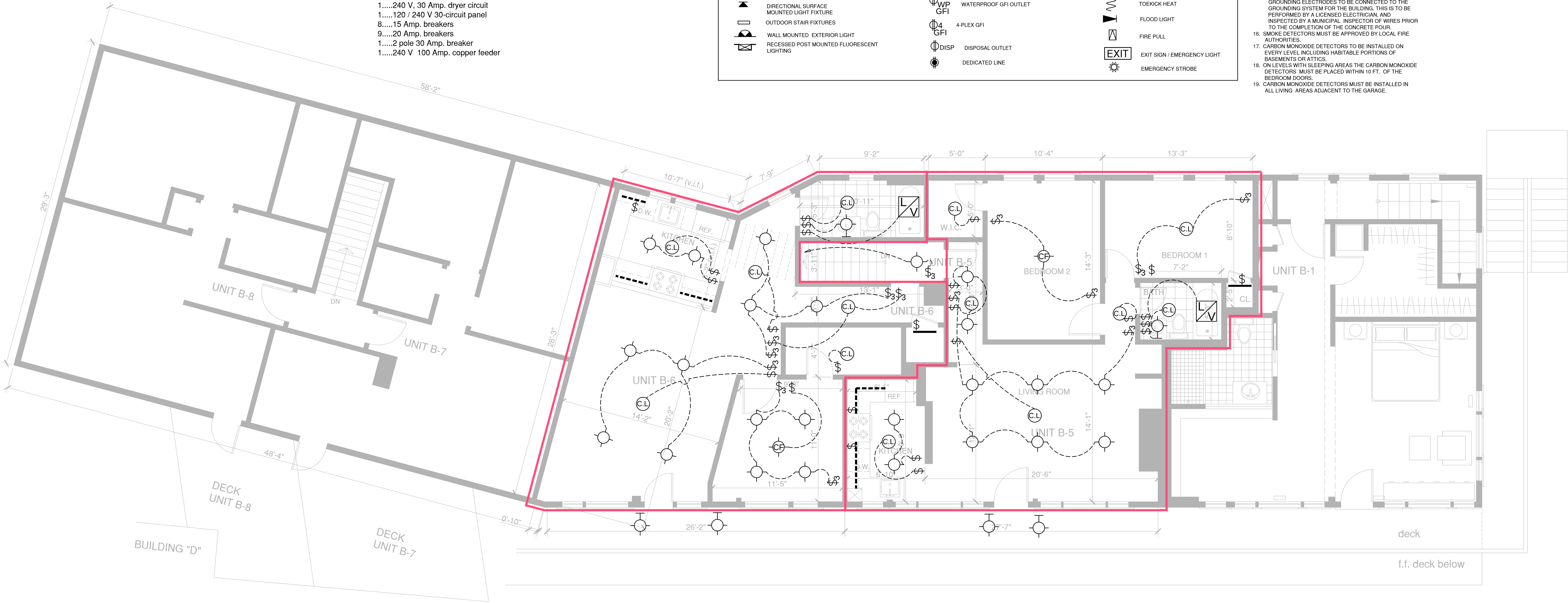
ELECTRICAL LEGEND

	UNDER COUNTER LIGHTING		ROOM CENTER LIGHT FIXTURE		CEILING MOUNTED VENT
	TRACK LIGHTING		JUNCTION BOX		CEILING LIGHT / VENT
	FLOURESCENT FIXTURE		WALL MOUNTED JUNCTION BOX		CEILING LIGHT / VENT / HEAT
	PENDANT LAMP		SINGLE POLE SWITCH		TELEPHONE JACK
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	CEILING FAN		CEILING MOUNTED DUPLEX OUTLET		CARBON MONOXIDE DETECTOR
	CEILING MOUNTED FLUORESCENT		220 VOLT DUPLEX OUTLET		TOEKICK HEAT
	OUTDOOR POST MOUNTED FIXTURE		GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE OUTLET		FLOOD LIGHT
	DIRECTIONAL SURFACE MOUNTED LIGHT FIXTURE		WATERPROOF GFI OUTLET		FIRE PULL
	OUTDOOR STAIR FIXTURES		4-PLEX GFI		EXIT SIGN / EMERGENCY LIGHT
	WALL MOUNTED EXTERIOR LIGHT		DISPOSAL OUTLET		EMERGENCY STROBE
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Lighting and Switching Plan of the Third Level (Units B-5 and B-6)

Scale: 1/4" = 1'-0"
Date: January 15, 2014

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E.3.a

UNIT B-5 LIGHTING FIXTURES AND ELECTRICAL RECEPTACLES:

- 10....."Lightolier" 4" recessed fixtures, trims, and lamps
7.....light fixtures
4.....wall sconces
1..... ceiling fan
1.....Panasonic exhaust fan
30.....120 V, 15 Amp. receptacles
7.....120 V, 20 Amp. GFCI receptacles
14.....120 V single pole switches
6.....120 V 3-way switches
4.....120 V dimmer switches
4.....120 V under counter lights
1.....120 V laundry circuit
1.....240 V, 30 Amp. dryer circuit
1.....120 / 240 V 100 Amp. 30-circuit panel
9.....120 V, 15 Amp. breakers
11.....120 V, 20 Amp. breakers
1.....2 pole 30 Amp. breaker
1.....240 V 100 Amp. copper feeder

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- 18....."Lightolier" 4" recessed fixtures, trims, and lamps
4.....light fixtures
3.....wall sconces
1..... ceiling fan
1.....Panasonic exhaust fan
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	DIRECTIONAL SURFACE MOUNTED LIGHT FIXTURE		WATERPROOF GFI OUTLET		FIRE PULL
	OUTDOOR STAIR FIXTURES		4-PLEX GFI		EXIT SIGN / EMERGENCY LIGHT
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