

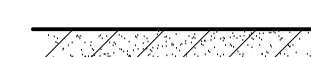

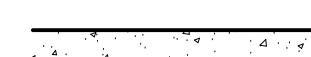


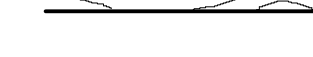




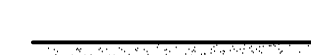



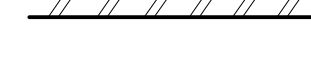





**THE STATE OF CONNECTICUT  
DEPARTMENT OF HOUSING  
COMMUNITY DEVELOPMENT BLOCK  
GRANT - DISASTER RECOVERY (CDBG-DR)  
OWNER OCCUPIED REHABILITATION and  
REBUILDING PROGRAM (OORR)**

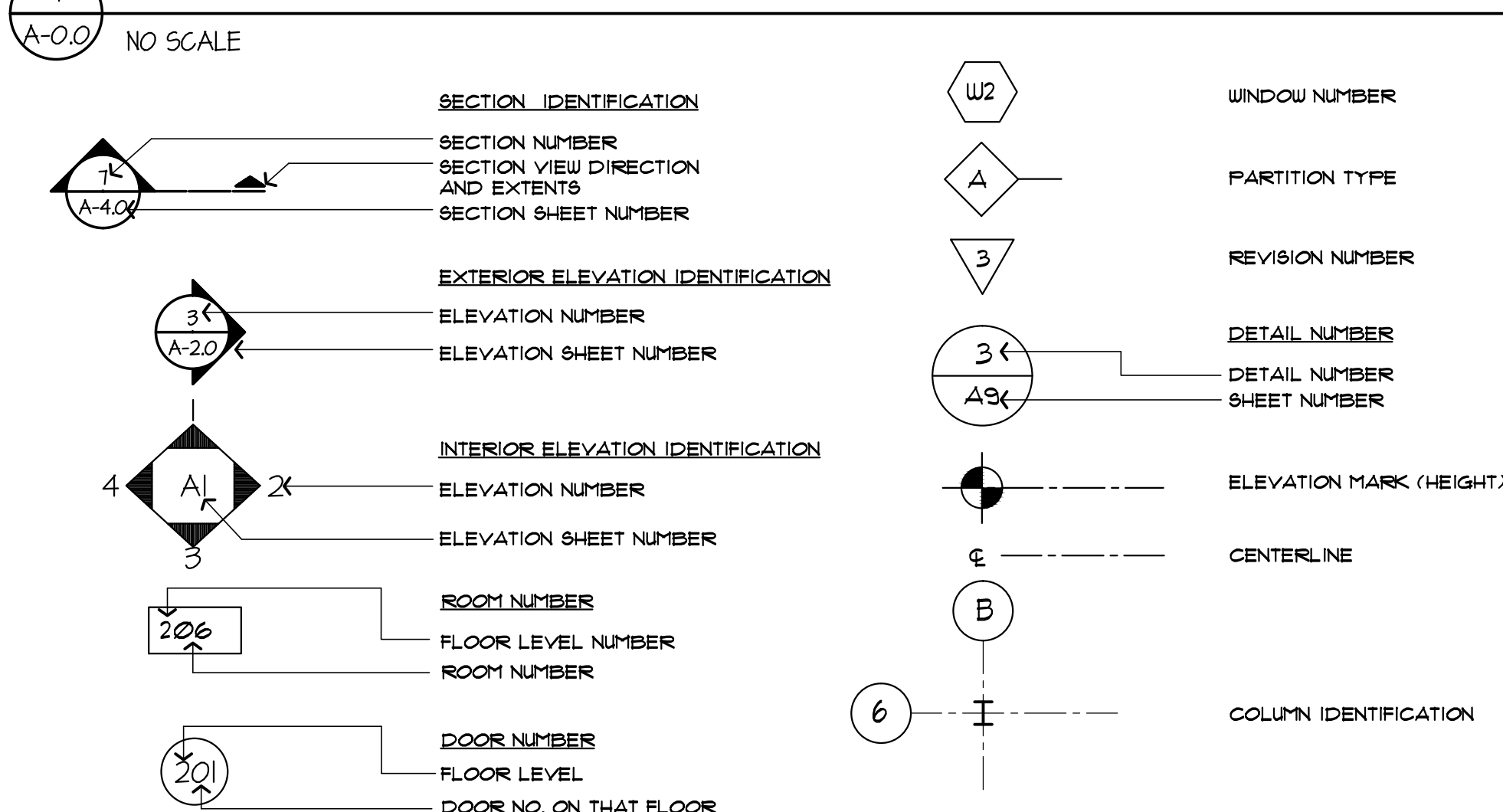
**REHABILITATION and MITIGATION for the  
RIZZUTO RESIDENCE  
APPLICATION No. 1819  
90 Pratt Road,  
Clinton, CT 06413**

	BRICK		RIGID INSULATION
	STONE		BATT INSULATION
	CONCRETE		FINISH WOOD (ELEVATION)
	MASONRY BLOCK		FINISH WOOD (SECTION)
	PLYWOOD		WOOD BLOCKING (CONT)
	GYPSUM BOARD		WOOD BLOCKING (NOT CONT)
	STEEL (SECTION)		STEEL ANGLE
	CERAMIC TILE		STEEL BEAM
	EARTH		GRAVEL

A.C.T.	ACOUSTICAL CEILING TILE	I.D.	INSIDE DIAMETER
ACOUST.	ACOUSTIC	INSUL.	INSULATION
ALT.	ALTERNATE	JAN.	JANITOR
ALUM.	ALUMINUM	JT.	JOINT
ARCH.	ARCHITECTURAL	LAM.	LAMINATED
ASB.	ASBESTOS	L.P.	LOW POINT
A.T.	ASPHALT TILE	LCKR.	LOCKER
@	AT	MAS.	MASONRY
B.C.	BRICK COURSE	MAT.	MATERIAL
BD.	BOARD	MAX.	MAXIMUM
B.F.	BOTTOM OF FOOTING	M.C.	MASONRY COURSE
BLDG.	BUILDING	MECH.	MECHANICAL
CAB.	CABINET	MEM.	MEMBRANE
C/C	CENTER TO CENTER	MFR.	MANUFACTURER
C.T.	CERAMIC TILE	MIN.	MINIMUM
C.J.	CONTROL JOINT	MIR.	MIRROR
C.L.	CENTER LINE	MISC.	MISCELLANEOUS
CLG.	CEILING	M.O.	MASONRY OPENING
C.O.	CASED OPENING	N.I.C.	NOT IN CONTRACT
COL.	COLUMN	NO.	NUMBER
COMP.	COMPACTED	N.T.S.	NOT TO SCALE
CONC.	CONCRETE	O/C	ON CENTER
CONN.	CONNECTION	O.D.	OUTSIDE DIAMETER
CONT.	CONTINUOUS	OPNG.	OPENING
CORR.	CORRIDOR	OPP.	OPPOSITE
CSK.	COUNTERSINK	PERF.	PERFORATED
D.F.	DRINKING FOUNTAIN	P.T.	PRESSURE TREATED
DET.	DETAIL	R.	RISER (RADIUS)
DIA.	DIAMETER	R.B.	RUBBER BASE
DN.	DOWN	REF.	REFERENCE
DP.	DAMP PROOFING	REINF.	REINFORCING
DWG.	DRAWING	R.L.	RAIN LEADER
ELECT.	ELECTRICAL	R.M.	ROOM
E.J.	EXPANSION JOINT	SIM.	SIMILAR
ELEV.	ELEVATION (ELEVATOR)	SPEC.	SPECIFICATION
E.P.	ELECTRICAL PANEL	STL.	STEEL
EQUIP.	EQUIPMENT	STRUCT.	STRUCTURAL
ETR.	EXISTING TO REMAIN	STOR.	STORAGE
E.W.C.	ELECTRIC WATER COOLER	SUSP.	SUSPENDED
EXP.	EXPANSION	TERR.	TERRAZZO (TERRACE)
F.A.P.	FIRE ALARM PANEL	T&G.	TONGUE AND GROOVE
F.D.	FLOOR DRAIN	THRESH.	THRESHOLD
F.E.	FIRE EXTINGUISHER	TREAD.	TREAD
F.H.C.	FIRE HOSE CABINET	T/S	TOP OF SLAB
FIN.	FINISH	T/STL	TOP OF STEEL
FL.	FLOOR	T/M	TOP OF WALL
F/M	FACE OF MASONRY	TYP.	TYPICAL
F/F	FACE OF FRAMING	V.C.T.	VINYL COMPOSITE TILE
FDN.	FOUNDATION	V.B.	VINYL BASE
F.R.	FIRE RATED	VERT.	VERTICAL
FTG.	FOOTING	VEST.	VESTIBULE
FUR.	FURNACE	V.I.F.	VERIFY IN FIELD
G.M.U.	GLAZED MASONRY UNIT	V.W.C.	VINYL WALL COVERING
GNB.	GYPSUM WALLBOARD	W	WITH
GALV.	GALVANIZED	W.C.	WATER CLOSET
GL.	GLASS	WD.	WOOD
GLZ.	GLAZING	WIND.	WINDOW
GYP. BD.	GYPSUM WALL BOARD	WP.	WATERPROOFING
HGT.	HEIGHT	WH.	WATER HEATER
H.M.	HOLLOW METAL		
H.P.	HIGH POINT		
HWD.	HARDWOOD		
HWR.	HARDWARE		

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH APPLICABLE STATE OF CONNECTICUT BUILDING AND FIRE CODES AND SAFETY CODES. BEFORE WORK BEGINS CONTRACTOR IS TO CONTACT CALL BEFORE YOU DIG AT 1-800-922-4455 TO LOCATE ALL UNDERGROUND UTILITIES.
- WORK PERMITS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL SECURE ALL REQUIRED LOCAL AND STATE OF CONNECTICUT PERMITS PRIOR TO COMMENCING WORK. ALL COSTS OF SECURING PERMITS SHALL BE PAID BY THE OWNER.
- ALL MATERIALS AND EQUIPMENT THAT WILL BE USED IN THE CONSTRUCTION OF THIS PROJECT ARE SUBJECT TO THE APPROVAL OF THE OWNER. ALL MATERIALS AND EQUIPMENT REQUIRED BY NOTES OR SPECIFICATIONS SHALL BE SUBMITTED IN THE FORM OF SAMPLES AND SHOP DRAWINGS FOR APPROVAL BY ARCHITECT. WHERE COLOR SELECTIONS ARE MADE, COMPLETE SAMPLES SHALL BE FURNISHED TO THE ARCHITECT.
- ALL EXISTING OR NEW CONSTRUCTION DISTURBED OR DAMAGED DURING THE COURSE OF THIS WORK SHALL BE RESTORED TO MATCH EXISTING ADJACENT SURFACES OR ORIGINAL CONSTRUCTION.
- PRECAUTION MUST BE EXERCISED AT ALL TIMES FOR THE PROTECTION OF PERSONS AND PROPERTY. THE SAFETY PROVISIONS OF APPLICABLE LAWS AND CONSTRUCTION CODES MUST BE OBSERVED. CONTRACTOR SHALL TAKE OR CAUSE TO BE TAKEN SUCH ADDITIONAL SAFETY AND HEALTH MEASURES AS ARE REASONABLY NECESSARY. MACHINERY, EQUIPMENT AND OTHER HAZARDS GUARDED IN ACCORDANCE WITH SAFETY PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, TO THE EXTENT THAT SUCH PROVISIONS ARE NOT IN CONTRADICTION OF APPLICABLE LAWS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND PRESERVE IN OPERATIONAL CONDITION ALL UTILITIES TRAVERSING THE WORK AREA. DAMAGE TO ANY UTILITY DUE TO WORK UNDER THIS CONTRACT SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT NO ADDITION COST TO THE OWNER. UTILITY SHUT DOWNS MUST BE COORDINATED WITH THE OWNER.
- EACH BIDDER WILL BE HELD TO HAVE EXAMINED THE PREMISES AND SATISFIED HIMSELF WITH THE CONDITIONS WHICH WOULD IN ANY MANNER AFFECT THE WORK UNDER THE CONTRACT AND NO LATER CLAIMS FOR EXTRA COMPENSATION FOR LABOR, MATERIALS AND EQUIPMENT WHICH COULD HAVE BEEN FORSEEN BY SUCH EXAMINATION WILL BE RECOGNIZED.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASUREMENTS FOR HIS WORK AT THE SITE AND SHALL VERIFY ALL MEASUREMENTS AND DIMENSION GIVEN ON THE DRAWINGS. DO NOT SCALE DRAWINGS.
- DO NOT PROCEED WITH CHANGE IN SCOPE OF WORK WITHOUT WRITTEN APPROVAL FROM OWNER OR ARCHITECT.
- ALL DEMOLITION SHOWN ON THESE DRAWINGS IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND RELOCATION WORK NECESSARY TO PROPERLY COMPLETE THE PROJECT, REGARDLESS IF DEMOLITION WORK IS SHOWN OR NOT ON DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LEGAL DISPOSAL OF ALL CONSTRUCTION WASTE AND REMOVED ELEMENTS, UNLESS NOTED OTHERWISE ON DRAWINGS. DEBRIS SHALL BE DISPOSED OF ON A DAILY BASIS.
- THE CONTRACTOR SHALL PROVIDE ALL STRUCTURAL SHORINGS, BRACING AND SHEATHING AS REQUIRED FOR SAFETY AND FOR PROPER EXECUTION OF WORK AND HAVE SAME REMOVED WHEN WORK IS COMPLETED.
- THE OWNER RETAINS THE RIGHT TO SALVAGE ANY DEMOLISHED OR CONTRACTOR REMOVED MATERIAL(S). CONTACT OWNER BEFORE REMOVAL FROM SITE

**4 MATERIALS LEGEND**



**3 SYMBOLS LEGEND**

A-0.0 NO SCALE

**2 ABBREVIATIONS**

A-0.0 NO SCALE

**1 GENERAL CONSTRUCTION and DEMOLITION NOTES**

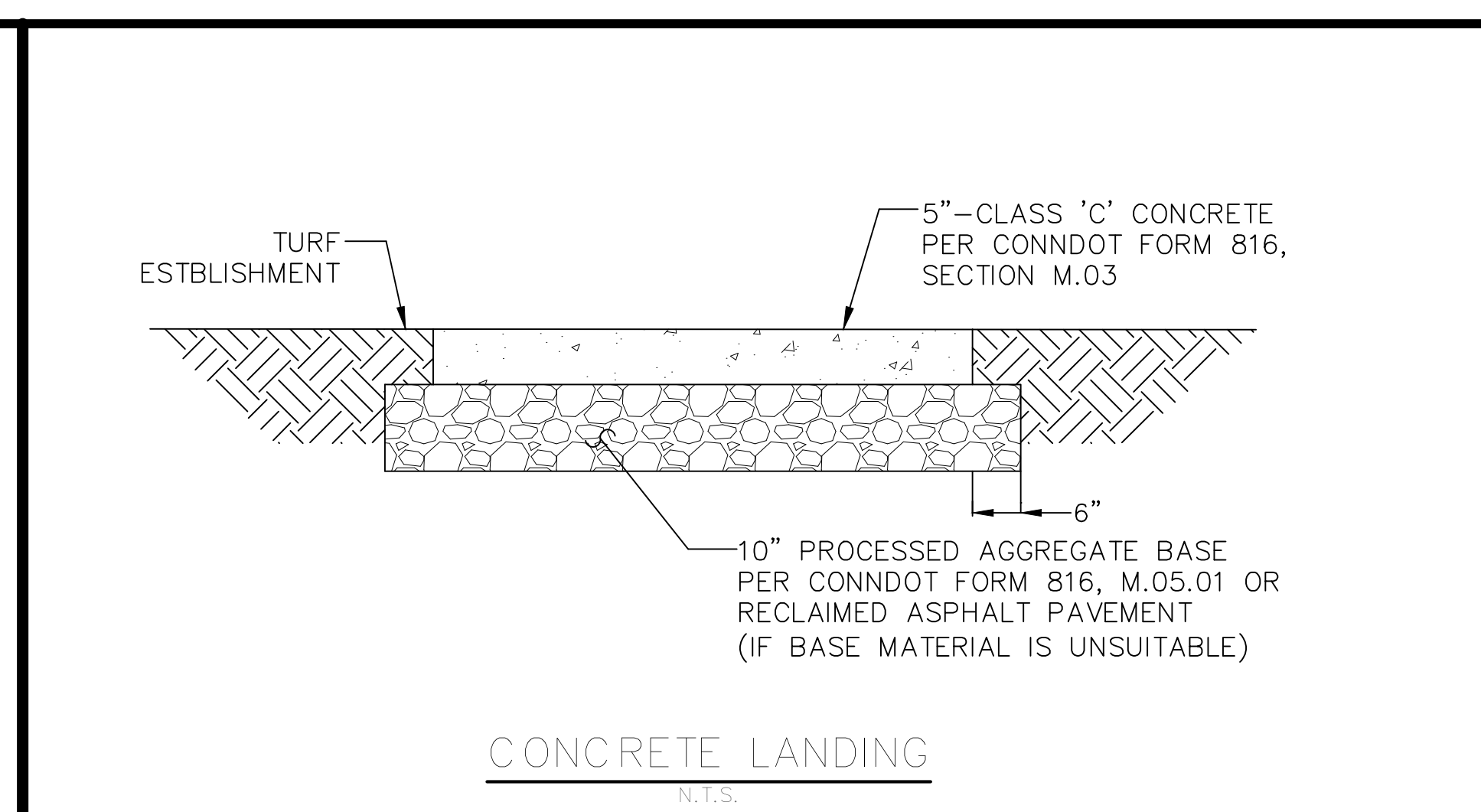
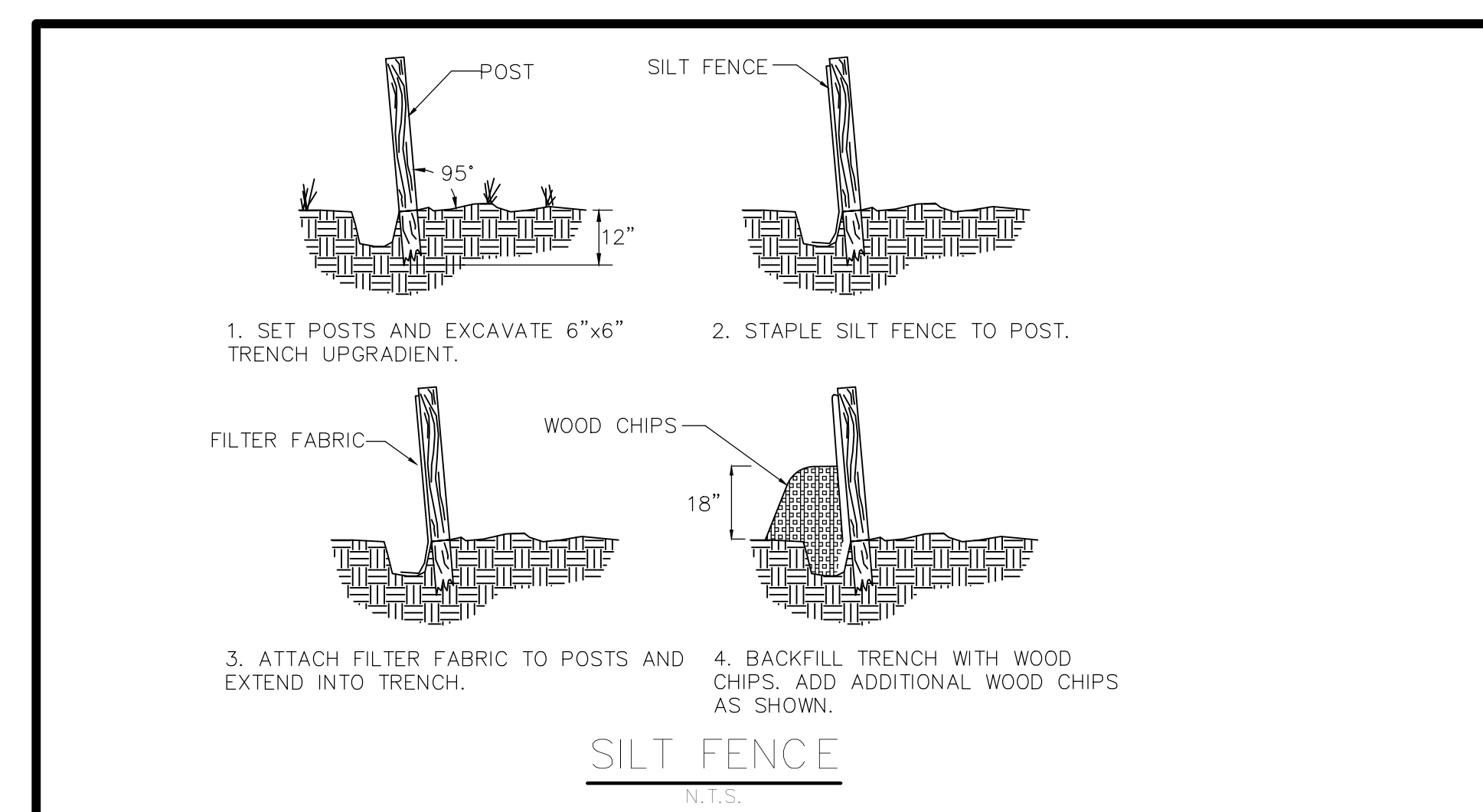
A-0.0 NO SCALE

date	description	no.
revisions		

**GENERAL INFORMATION**

**A-0.0**

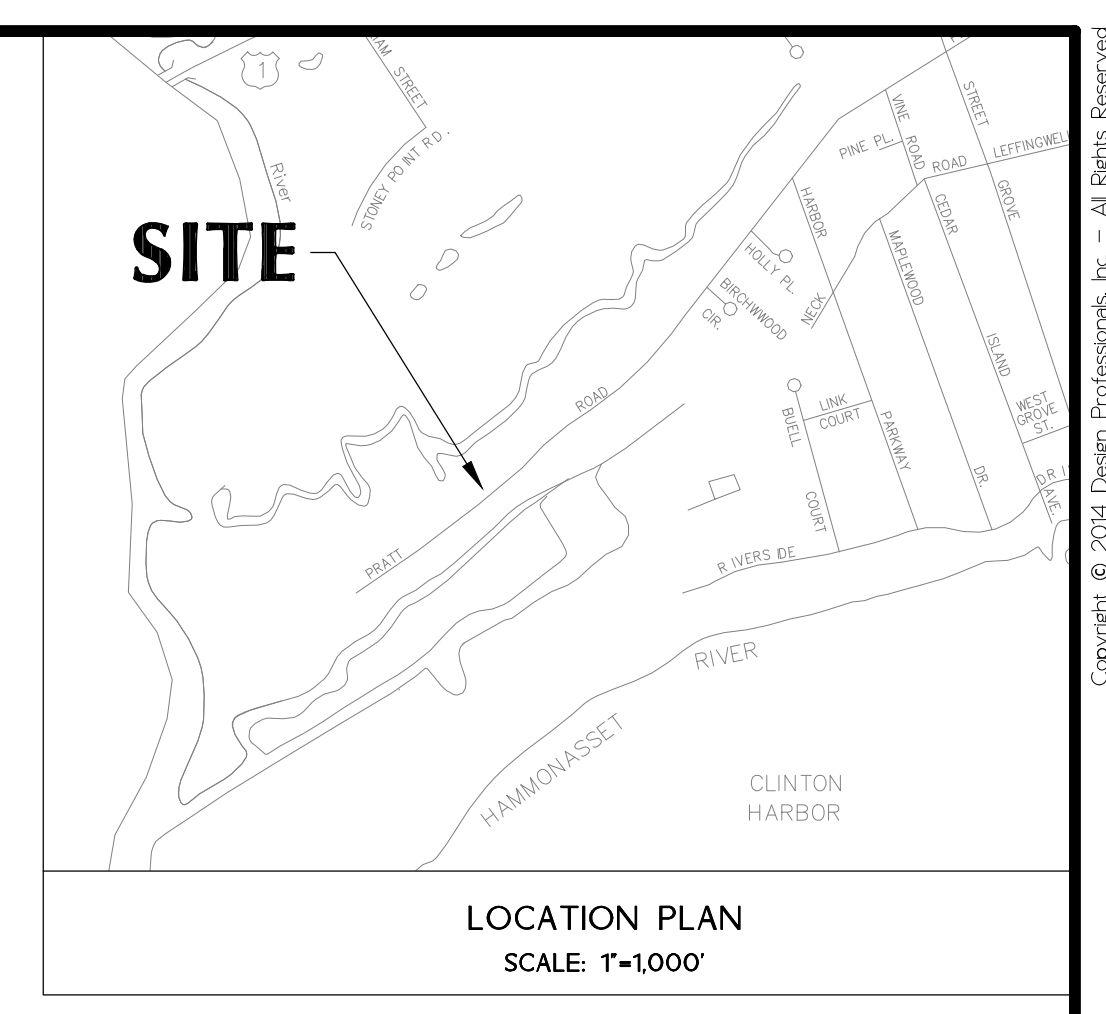
date	05 OCT 2015
drawn	NF/PR
scale	AS SHOWN
checked	JP/DH
project no.	1347-44
application no.	1819



### Zoning Information

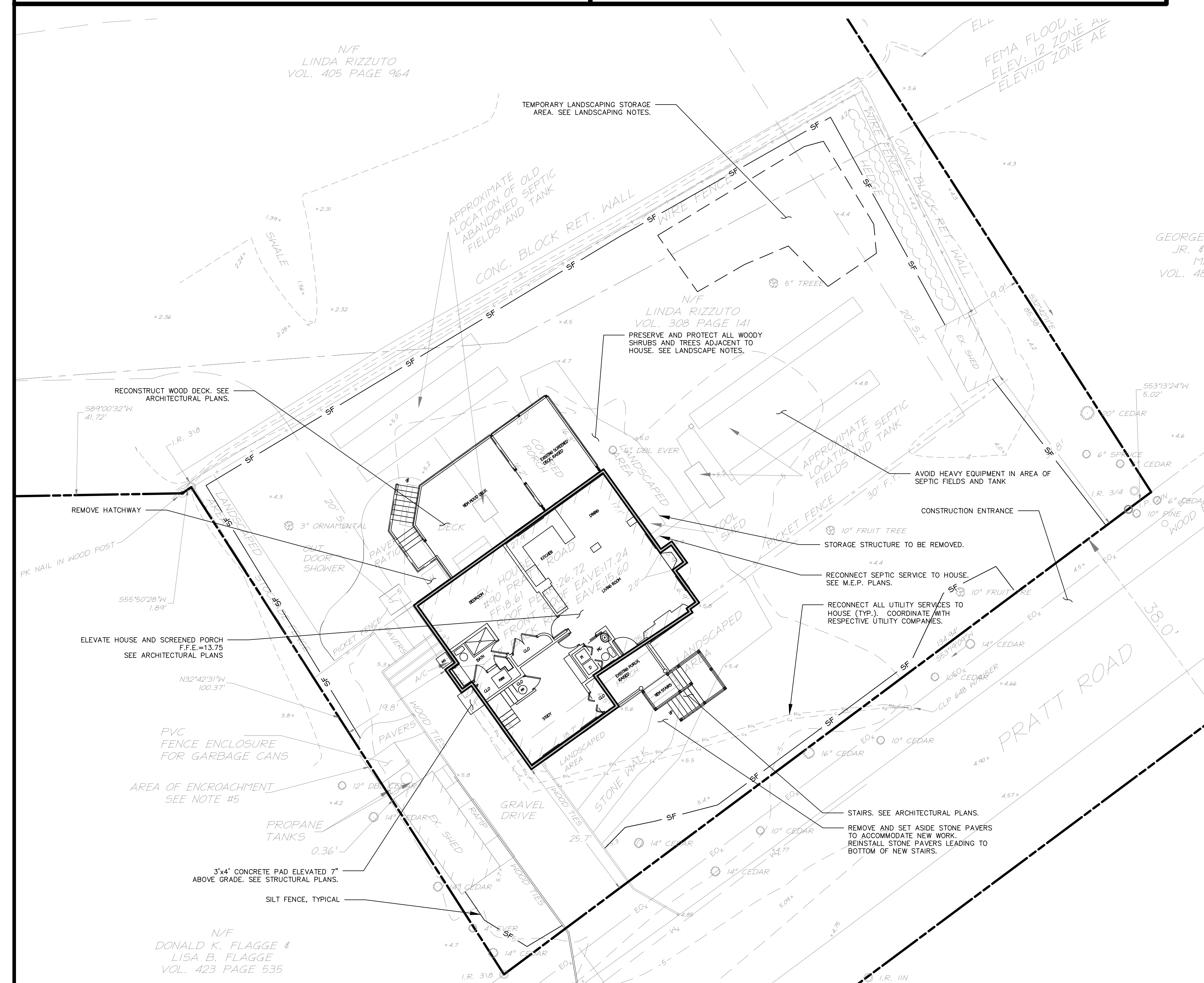
ZONE: R-20 Residential

ITEM	REQUIRED	EXISTING CONDITIONS	PROPOSED CONDITIONS
Minimum Lot Area	20,000 s.f.	33,350 s.f.	33,350 s.f.
Minimum Lot Frontage	110 feet	134.94 feet	134.94 feet
Minimum Front Yard Setback	30 feet	25.7 feet *	25.7 feet *
Minimum Side Yard Setback	20 feet	19.8 feet *	19.8 feet *
Minimum Rear Yard Setback	30 feet	155.5 feet	155.5 feet
Maximum Building Height to ridge of roof	35 feet	16.98 feet	22.33 feet
Maximum Ground Coverage	15%	9.1%	9.5%
Maximum Floor Area	30%	5.1%	5.1%
Minimum Ground Floor Area	800 sq. ft.	1,478 sf	1,478 sf
Minimum Total Floor Area	1,000 sq. ft.	1,691 sf	1,691 sf



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\* Property is existing non-conforming with regards to front and side yard setback requirements.

PREPARED FOR:  
Linda Rizzuto  
77-7th Avenue 4B  
New York, NY 10011

PROJECT NO.: 3400.1819  
DATE: 9/17/2015  
SCALE: 1" = 10'  
DRAWN BY: BFW  
CHECKED BY: BFW  
DATE: 9/17/2015

**LINDA RIZZUTO**  
90 PRATT ROAD  
CLINTON, CONNECTICUT

**PLOT PLAN**

NO.	DATE	REVISIONS

SCALE: 1" = 10'

**P-1**

GENERAL STRUCTURAL NOTES

LIVE LOADS

FIRST FLOOR 40 PSF

SNOW LOADS

GROUND SNOW LOAD, P<sub>g</sub> = 30 PSF  
FLAT/SLOPED ROOF SNOW LOAD, P<sub>f</sub>/P<sub>s</sub> = 30 PSF

WIND LOADS

IMPORTANCE FACTOR, I = 1.0  
WIND EXPOSURE CATEGORY: C  
BASIC WIND SPEED = 105 MPH (3 SEC. GUST)

FLOOD HAZARD

- FEMA AE FLOOD ZONE WITH FLOOD ELEVATION OF 10.0 (NAVD 1988 DATUM) FEET PLUS 1-FOOT FREEBOARD. ALL HORIZONTAL STRUCTURE AT LOWEST DECK TO BE AT OR ABOVE FLOOD ELEVATION.
- ALL FRAMING BELOW FLOOD ELEVATION SHALL BE PRESSURE TREATED OR OTHERWISE FLOOD DAMAGE RESISTANT PER FEMA TECHNICAL BULLETIN 2.
- FINISH FLOOR ELEVATION 13'-9" PER STATE OF CT DEPT. OF HOUSING COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM REQUIREMENT.

GENERAL

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2009 INTERNATIONAL RESIDENTIAL CODE PORTION OF THE 2005 STATE OF CONNECTICUT STATE BUILDING CODE.
- DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST ARCHITECTURAL DRAWINGS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES. OPENINGS NOT SPECIFICALLY SHOWN SHALL BE APPROVED BY THE ENGINEER.
- FOUNDATION ELEMENTS SHALL BE TEMPORARILY BRACED AGAINST EARTH PRESSURE, WIND AND OTHER LATERAL FORCES.

REINFORCED CONCRETE

- ALL CONCRETE SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE'S BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-02)
- ALL CONCRETE IS DESIGNED BY ULTIMATE STRENGTH METHODS AND SHALL BE NORMAL WEIGHT, AIR ENTRAINED (5% TO 6%) WITH A 28-DAY COMPRESSIVE STRENGTH AS FOLLOWS:

WALLS AND FOUNDATIONS 3,000 PSI

- ALL REINFORCING SHALL BE HIGH STRENGTH DEFORMED BARS, ASTM A 615 GRADE 60.
- DETAIL ALL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL" ON THE PLACING DRAWINGS, SHOW THE NUMBER AND LOCATION OF ALL BAR SUPPORTS AND ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT IN POSITIONS INDICATED.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT WHEN NOT OTHERWISE INDICATED SHALL BE:

CONCRETE POURED AGAINST EARTH 3"  
CONCRETE POURED IN FORMS, BUT EXPOSED TO EARTH OR WEATHER:  
a. BARS #5 AND SMALLER 1-1/2"  
b. BARS LARGER THAN #5 2"

- (2) #5 BARS, 1 EACH FACE, WITH 2 FT. PROJECTION AROUND ALL OPENINGS, TYP.
- WALLS AND PIERS SHALL HAVE NO JOINTS IN A HORIZONTAL PLANE.
- EPOXY ADHESIVE TO BE HILTI HIT OR EQUAL.

FOUNDATION

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT FOR PROJECT 15013 DATED JUNE 10, 2015 PREPARED BY GNCB CONSULTING ENGINEERS, P.C., OLD SAYBROOK, CT. REFER TO TEST BORING LOCATION PLAN ON DRAWINGS.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL MATERIAL OR CONTROLLED STRUCTURAL FILL HAVING AN ALLOWABLE BEARING VALUE OF 6 KIPS PER SQ. FOOT TOTAL LOAD PRESSURE AND SHALL BEAR AT LEAST 3'-6" MIN. BELOW FINISH GRADE.
- ELEVATIONS OF BOTTOM OF FOOTING SHOWN ON PLANS ARE FOR BIDDING PURPOSES AND SHALL BE LOWERED IF NECESSARY TO THE REQUIRED BEARING MATERIAL AS FOUND UPON EXCAVATION. IF THE REQUIRED BEARING MATERIAL IS NOT ENCOUNTERED AT ELEVATIONS SHOWN, NOTIFY ENGINEER IMMEDIATELY.
- REFER TO GNCB GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS FOR FILL REQUIREMENTS BELOW THE BUILDING. IN GENERAL, AN OFF-SITE STRUCTURAL FILL IS NEEDED BELOW NEW FOOTINGS TO REPLACE UNSUITABLE MATERIALS. (ALSO REFER TO DIAGRAM ON SHEET S1.1, ENTITLED "LIMITS OF COMPACTED STRUCTURAL FILL BELOW NEW FOOTINGS") GRANULAR FILL MATERIAL IS NEEDED TO FILL ANY AREAS IN THE EXISTING BUILDING CRAWL SPACE AND/OR BACKFILL NEW FOOTINGS.

STEEL

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN, AND THE AISC CODE OF STANDARD PRACTICE.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE ON THE DRAWINGS:

ANCHOR RODS ASTM F1554 GRADE 55  
MISC. PLATES AND CONNECTION MATERIALS ASTM A36 Fy 36 ksi  
STEEL PIPE COLUMN ASTM A501 Fy 36 ksi

- ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE-STEEL D1.1, LATEST EDITION. USE E70XX ELECTRODES UNLESS NOTED OTHERWISE.
- PROVIDE ALL PLATES, CLIP ANGLES, CLOSURE PIECES, STRAP ANCHORS, MISC. PIECES, AND HOLES REQUIRED TO COMPLETE THE STRUCTURE.
- ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED.
- BOLTS TO BE GALVANIZED.

WOOD

- ALL FRAMING LUMBER SHALL BE DRY (19% MAXIMUM MOISTURE CONTENT) DOUGLAS-FIR #2 OR BETTER, WITH THE FOLLOWING ALLOWABLE UNIT STRESSES:
- |                                    |                         |           |
|------------------------------------|-------------------------|-----------|
| BENDING, REPETITIVE USE            | F <sub>b</sub> =        | 1,035 psi |
| BENDING, SINGLE USE                | F <sub>b</sub> =        | 900       |
| TENSION PARALLEL TO GRAIN          | F <sub>t</sub> =        | 575       |
| COMPRESSION PARALLEL TO GRAIN      | F <sub>c</sub> (Par.) = | 1,350     |
| SHEAR PARALLEL TO GRAIN            | F <sub>v</sub> =        | 180       |
| COMPRESSION PERPENDICULAR TO GRAIN | F <sub>c</sub> (Per.) = | 625       |
| MODULUS OF ELASTICITY              | E =                     | 1,700,000 |

- WHERE FRAMING CLIPS OR JOIST HANGERS ARE USED, FASTENERS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
- FOR PLYWOOD NAILED TO FRAMING, 10D NAILS SHALL BE SPACED AT 4" O.C. UNLESS NOTED OTHERWISE AT EDGES, 10" O.C. AT INTERMEDIATE SUPPORTS, UNLESS SHOWN OTHERWISE.
- ALL OPENINGS SHALL BE FRAMED WITH DOUBLE MEMBERS UNLESS OTHERWISE NOTED ON PLANS.
- ALL ENGINEERED LUMBER SHALL CONFORM WITH THE FOLLOWING ALLOWABLE UNIT STRESSES UNLESS OTHERWISE NOTED:

LAMINATED VENEER LUMBER (LVL)  
MODULUS OF ELASTICITY, MIN.  
BENDING, SINGLE USE  
COMPRESSIONAL PARALLEL TO GRAIN  
HORIZONTAL SHEAR  
COMPRESSION PERPENDICULAR TO GRAIN/  
PARALLEL TO GLUE LINE  
TENSION STRESS

E =	1,900,000 psi
F <sub>b</sub> =	2,600
F <sub>c</sub> (Par.) =	2,510
F <sub>v</sub> =	285
F <sub>c</sub> (Per.) =	750
F <sub>t</sub> =	1,555

- BUILT-UP LVLs TO BE CONSTRUCTED PER MANUFACTURER'S SPECIFICATIONS.
- ALL PENETRATIONS THROUGH ENGINEERED LUMBER SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING.
- ALL EXPOSED STAIR LANDING/STAIRS/DECK/PORCH FRAMING TO BE PRESSURE TREATED WOOD.
- FRAMING CONNECTORS AND NAILS AT EXPOSED DECK TO BE STAINLESS STEEL, OR OTHER FINISH APPROVED BY ENGINEER.

NAILING SCHEDULE - UNLESS OTHERWISE NOTED

CONNECTION	NAILING
JOIST TO SILL OR GIRDER, TOE NAIL	3-8d
BRIDGING TO JOIST, TOE NAIL EACH END	2-8d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
TOP PLATE TO STUD, END NAIL	2-16d
STUD TO SOLE PLATE, TOE NAIL	4-8d
DOUBLED STUDS, FACE NAIL	16d AT 24" O.C.
DOUBLED TOP PLATES, FACE NAIL	16d AT 16" O.C.
TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOE NAIL	3-8d
CONTINUOUS HEADER TO STUD, TOE NAIL	4-8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-16d
RAFTER TO PLATE, TOE NAIL	3-8d
BUILT-UP CORNER STUDS	16d AT 24" O.C.
BUILT-UP GIRDER AND BEAMS (U.O.N.)	20d AT 32" O.C. AT TOP AND BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE

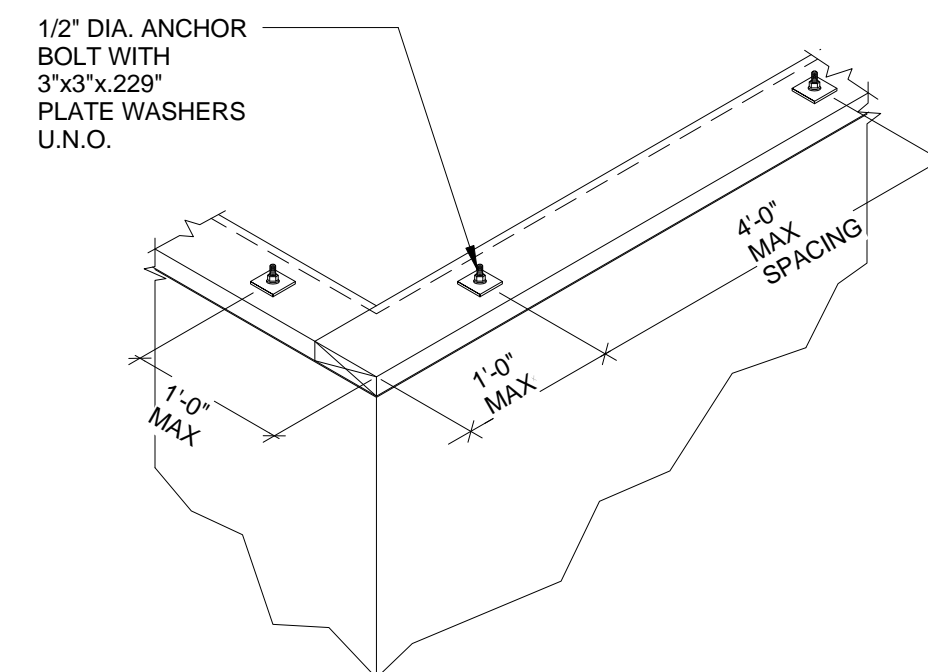
PLYWOOD: UNLESS OTHERWISE NOTED

APA SUBFLOOR SHEATHING 3/4" T&G STURD-I-FLOOR	8d
WALL SHEATHING 1/2"	10d
ROOF SHEATHING 5/8"	8d

NOTES:  
SCHEDULE BASED UPON COMMON WIRE NAILS.  
LARGER NAIL SIZES REQUIRED FOR BOX OR PNEUMATIC DRIVEN FASTENERS.  
SUBSTITUTING PNEUMATIC NAILS OF EQUAL DIAMETER OR LARGER IS ACCEPTABLE.  
SUBMIT PRODUCT DATA AND ALL PERTINENT EVALUATION REPORTS FOR ALL PROPOSED FASTENERS IF DIFFERENT THAN INDICATED ON THE STRUCTURAL DRAWINGS.

COMMON WIRE NAIL DIAMETERS

6d	0.113"
8d	0.131"
10d	0.148"
12d	0.148"
16d	0.162"
20d	0.192"



TYPICAL ANCHOR BOLT DETAIL

NOTES:

- PROVIDE MINIMUM 7" EMBEDMENT.
- MAXIMUM PERMITTED HOLE SIZE FOR ANCHOR BOLT IS 9/16".
- SINGLE SPLICE PLATE TIED WITH SIMPSON ST6224 STRAP.

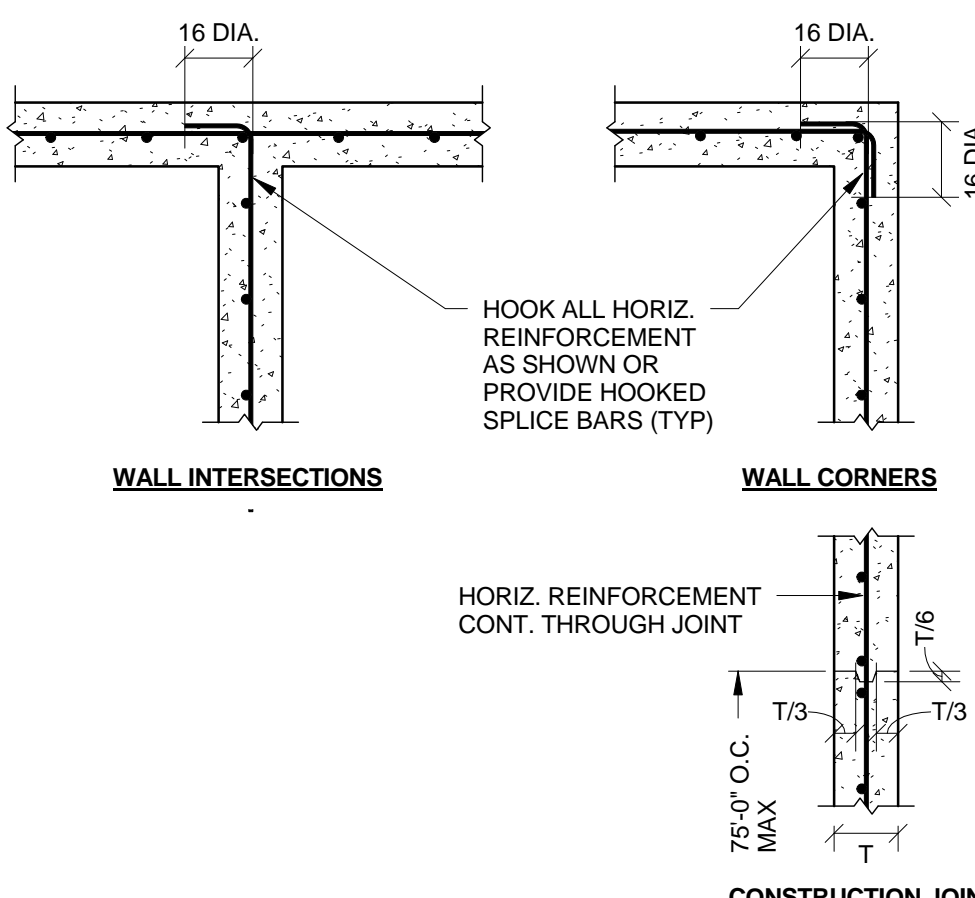
OPTION:  
IN LIEU OF ANCHOR BOLTS, SIMPSON MUDDILL ANCHORS CAST IN PLACE CONCRETE MAY BE USED

FOUNDATION - ANCHOR BOLTS

APPLY AT ALL TYPICAL AND SIMILAR CONDITIONS

FRAMING CONDITION	CONNECTOR	COMMENTS	GRAPHIC
JOISTS FRAMING TO LEDGER ON FLOOR RIM	LEDGERLOKS AT STAGGERED TOP AND BOTTOM 8" O.C.  ATTACH DECK TO HOUSE FRAME, SIMPSON DTT22 TENSION TIE 2 PER DECK, MIN. REQUIRED		
DECK POST BASE			
TYPICAL EXTERIOR BASE OF STAIR FRAMING			

TYPICAL CONCRETE WALL REINFORCING DETAILS



THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OOR)

GENERAL RENOVATIONS for the RIZZUTO RESIDENCE APPLICATION No. 1819  
90 Pratt Road Clinton, CT 06413

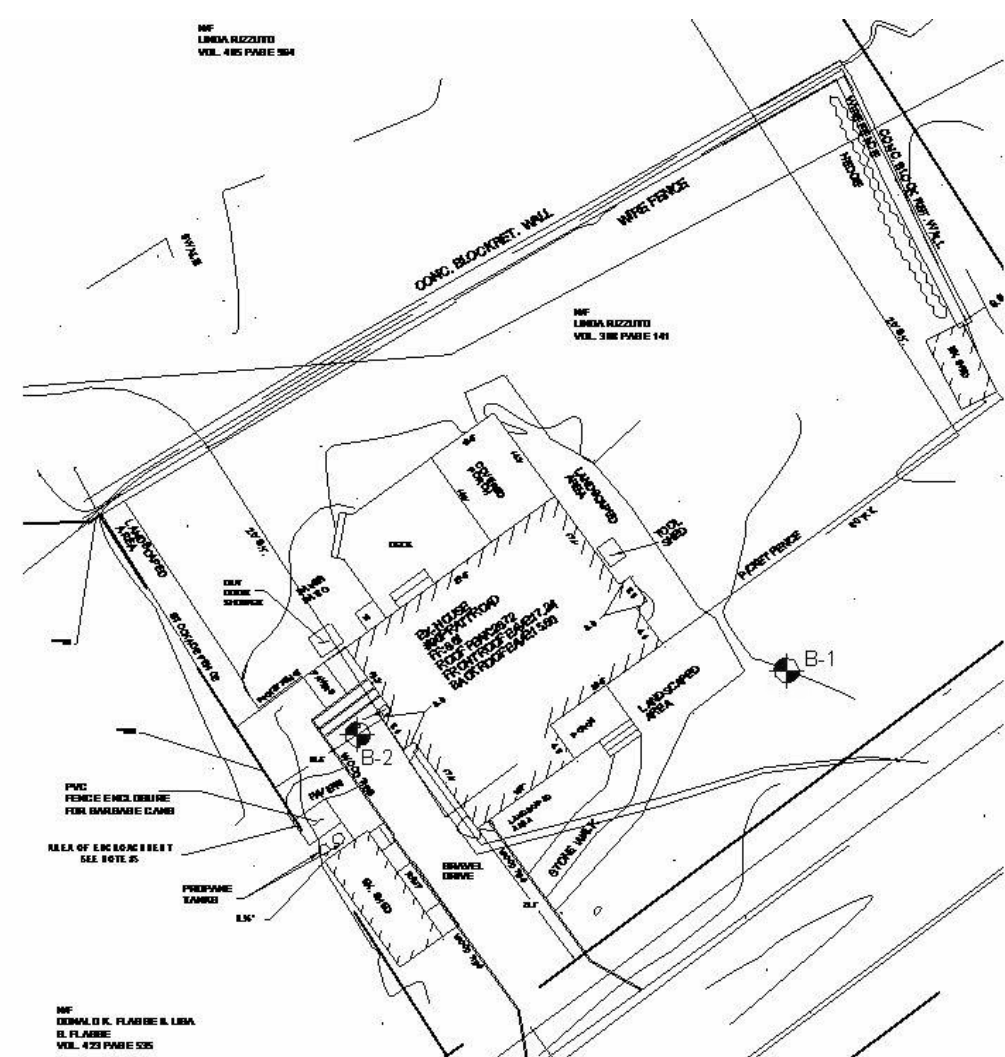
Consultants:

GNCB	130 ELMA STREET POST OFFICE BOX 802 OLD SAYBROOK CONNECTICUT 06475 PHONE: 860.388.1224 FAX: 860.388.4613 GNCBENGINEERS.COM	
date	description	no.
revisions		

GENERAL NOTES AND TYPICAL DETAILS

S1.0

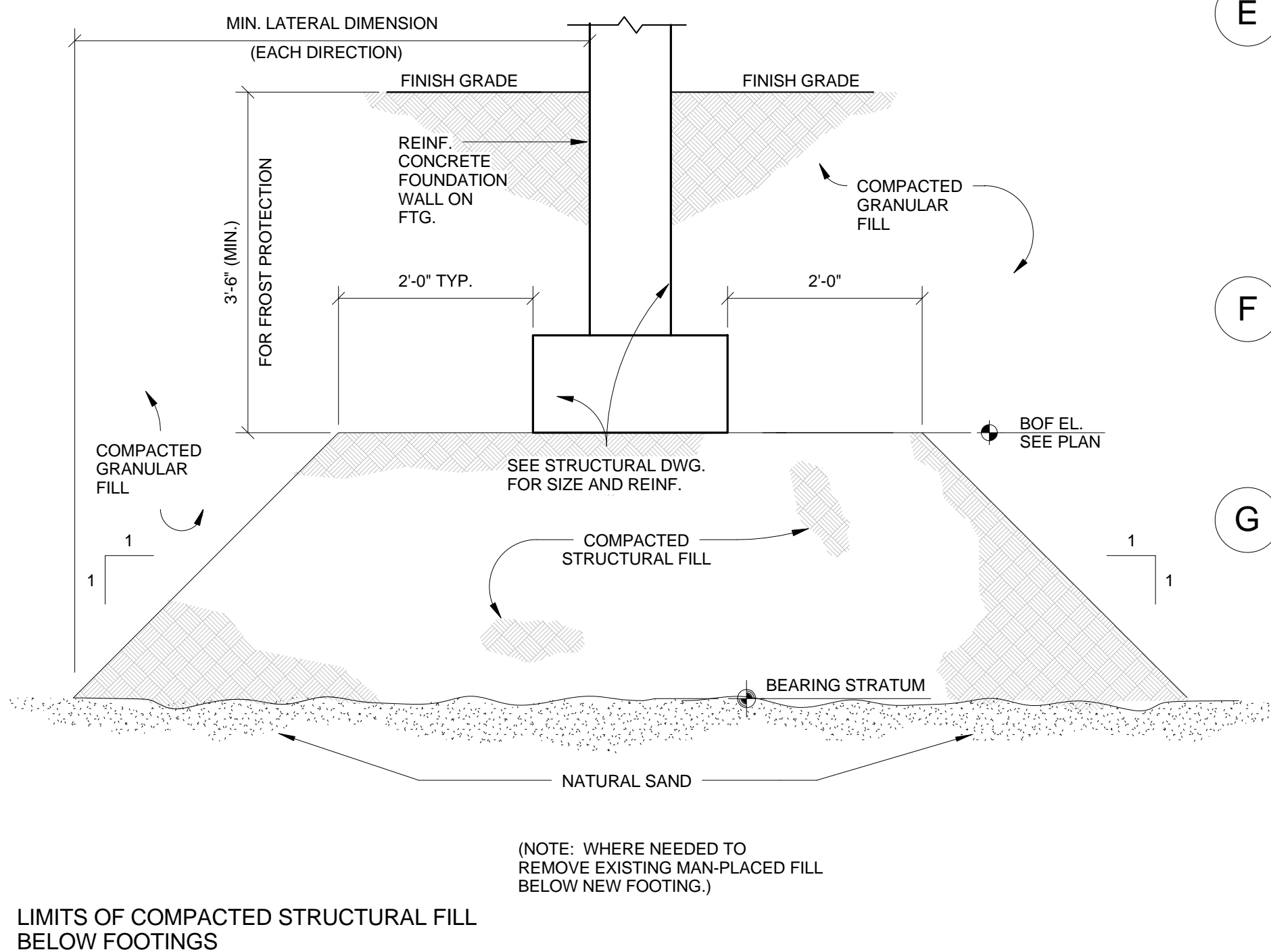
date	SEPT. 11, 2015
drawn	RLB
scale	As indicated
checked	CCB
project no.	1347-44 GNCB 15013
application no.	1819



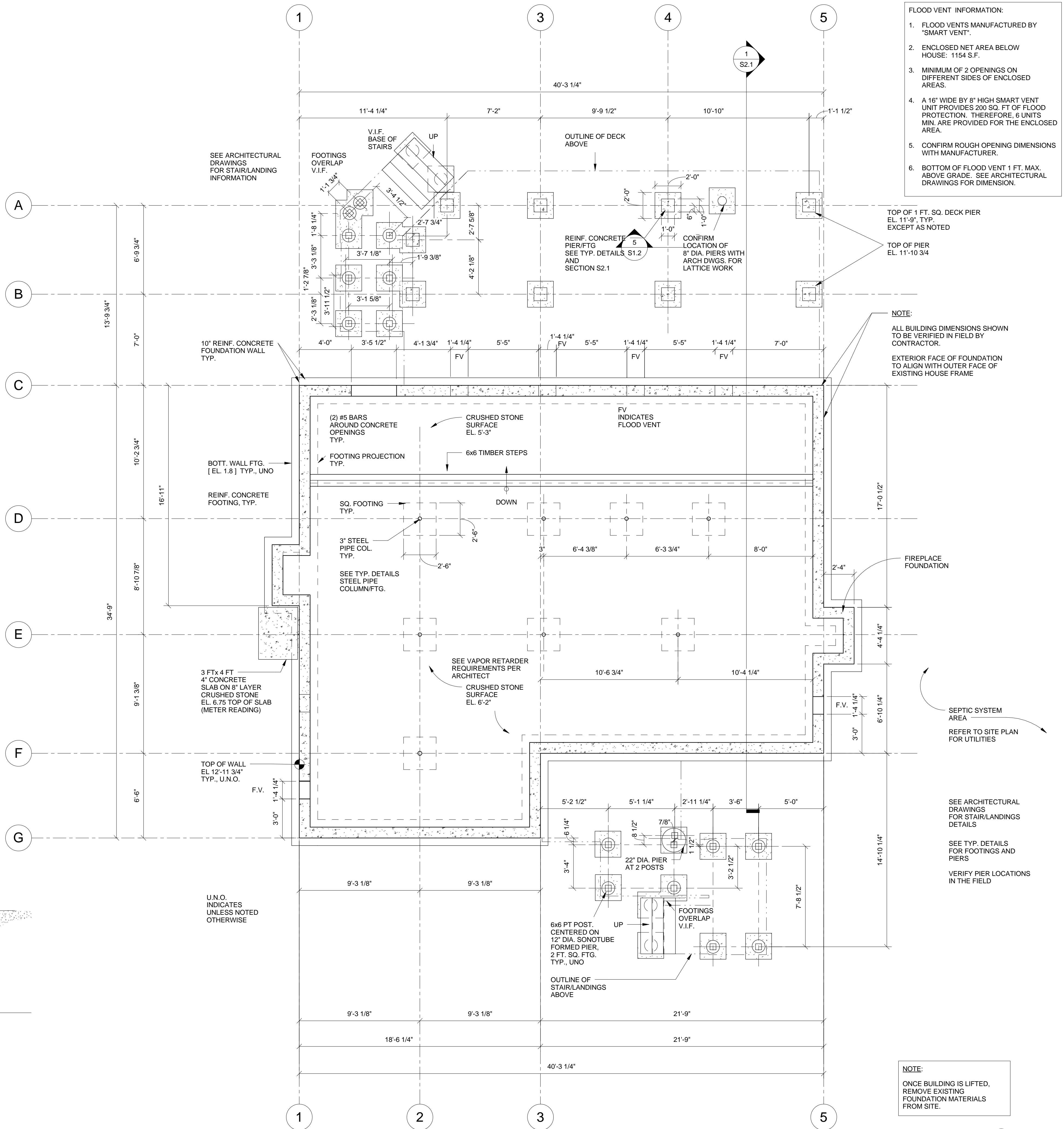
**LEGEND TEST BORING INFORMATION**

	B-X		B-1		B-2
	ELEVATION TOP OF : GROUND SURFACE		ELEVATION TOP OF : SAND		ELEVATION TOP OF : SAND
X	5.0	X	1.0	X	1.5

TEST BORING PLAN



LIMITS OF COMPACTED STRUCTURAL FILL BELOW FOOTINGS



FOUNDATION PLAN  
1/4" = 1'-0"



**THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OOR)**

**GENERAL RENOVATIONS for the RIZZUTO RESIDENCE**  
APPLICATION No. 1819  
90 Pratt Road  
Clinton, CT 06413

Consultants:

<b>GNCB</b>	130 ELMA STREET POST OFFICE BOX 802 OLD SAYBROOK CONNECTICUT 06475 PHONE: 860.388.1224 FAX: 860.388.4613 GNCBENGINEERS.COM
Consulting Engineers, P.C.	
date	description
revisions	no.

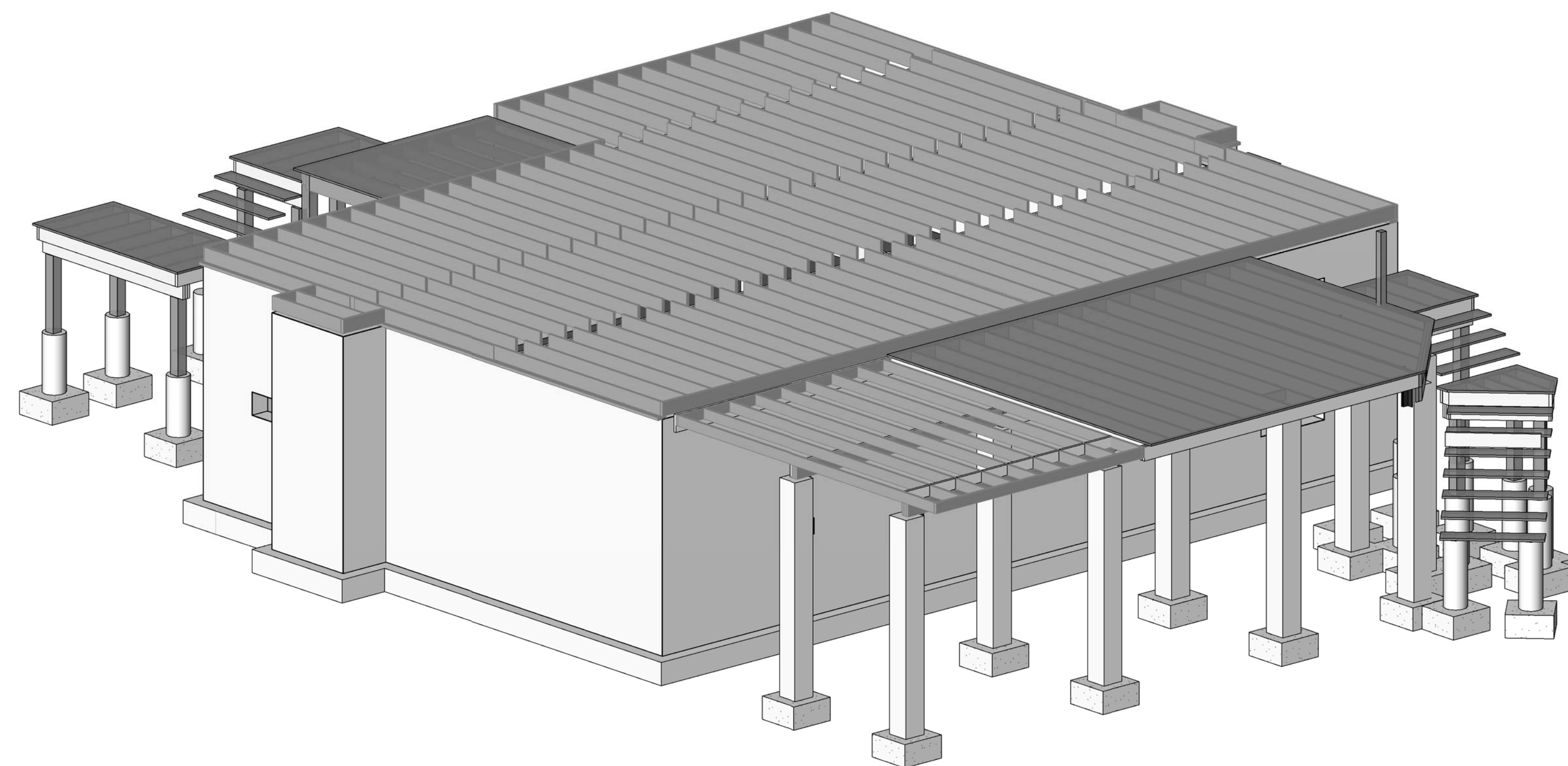
FOUNDATION PLAN

**S1.1**

date	SEPT. 11, 2015
drawn	RLB
scale	As indicated
checked	CCB
project no.	1347-44 GNCB 15013
application no.	1819







1 3D SHEET VIEW

**THE STATE OF  
CONNECTICUT  
DEPARTMENT OF  
HOUSING (DOH)  
COMMUNITY  
DEVELOPMENT BLOCK  
GRANT - DISASTER  
RECOVERY (CDBG-DR)  
OWNER OCCUPIED  
REHABILITATION and  
REBUILDING PROGRAM  
(OOR)**

**GENERAL  
RENOVATIONS for the  
RIZZUTO RESIDENCE  
APPLICATION No.  
1819  
90 Pratt Road  
Clinton, CT 06413**

Consultants:

**GNCB** 130 ELM STREET  
POST OFFICE BOX 802  
OLD SAYBROOK  
CONNECTICUT 06475  
PHONE: 860 388 1224  
FAX: 860 388 4613  
GNCBENGINEERS.COM

Consulting Engineers, P.C.

date	description	no.
revisions		

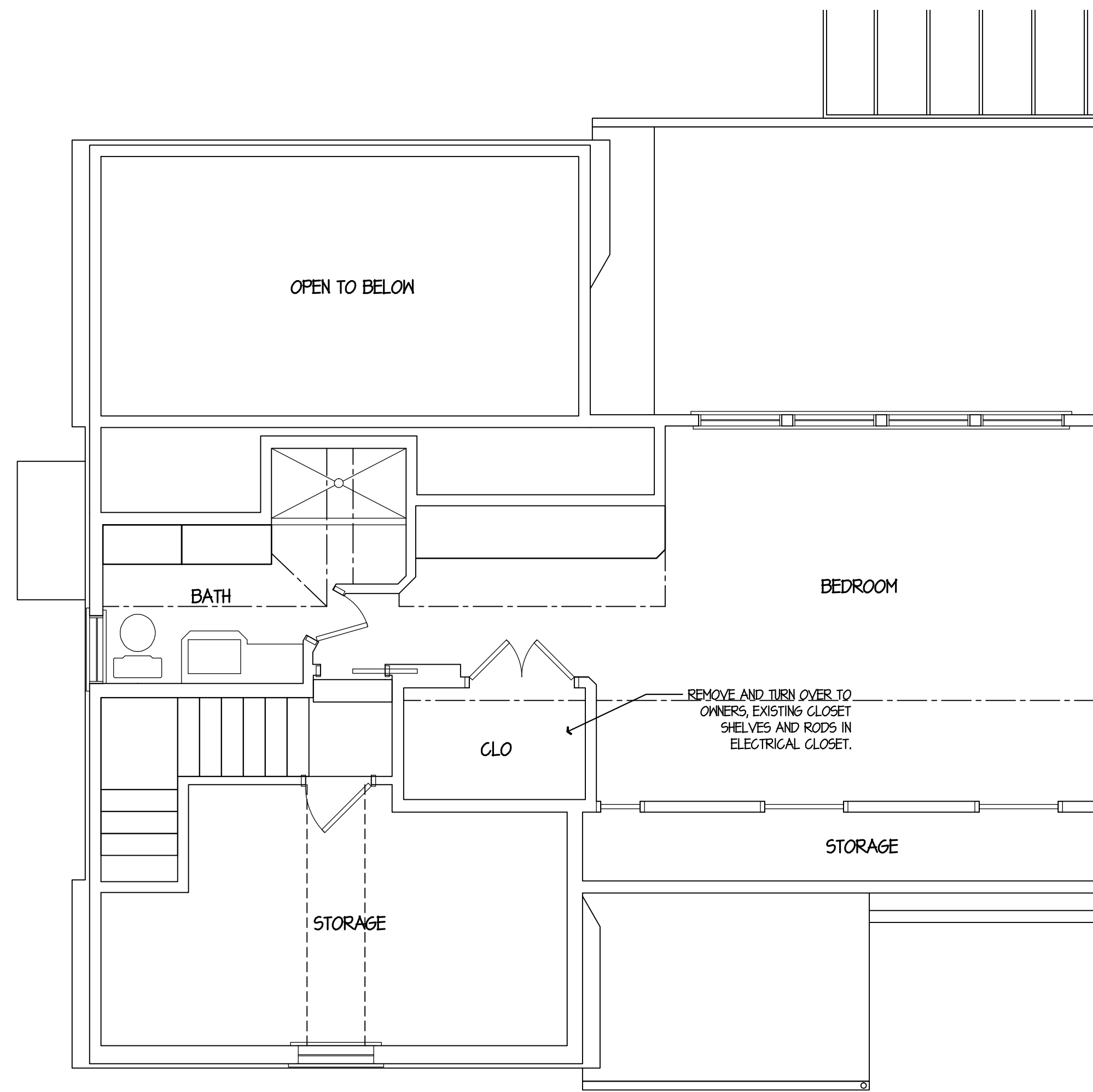
SECTION & TYPICAL DETAILS

## S2.2

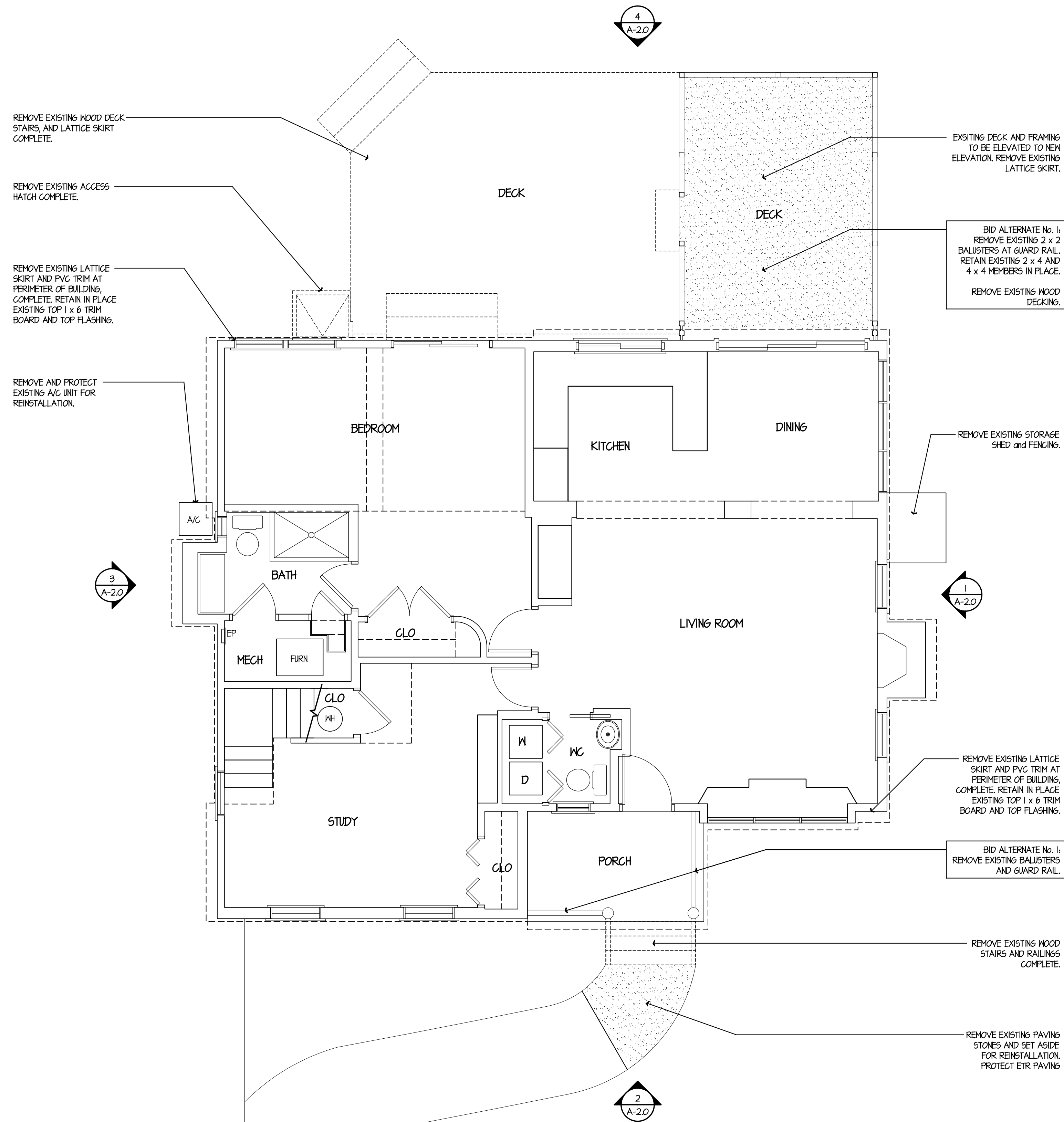
date	SEPT. 11, 2015
drawn	RLB
scale	3/4" = 1'-0"
checked	CCB
project no.	1347-44 GNCB# 15013
application no.	1819

**THE STATE OF CONNECTICUT  
DEPARTMENT OF HOUSING (DOH)  
COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR)  
OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)**

**REHABILITATION and MITIGATION for the RIZZUTO RESIDENCE  
APPLICATION No. 1819  
90 Pratt Road,  
Clinton, CT 06413**



**2 SECOND FLOOR DEMO PLAN**  
D-1.0 1/4" = 1'-0"



**1 FIRST FLOOR DEMO PLAN**  
D-1.0 1/4" = 1'-0"

**GENERAL NOTES:**

1. REMOVE EXISTING STAIRS AND DECKS AS SHOWN
2. PREPARE BUILDING AND RETAINED PORCHES AND DECKS FOR ELEVATING WORK
3. REMOVE AND PROTECT EXISTING LANDSCAPE PLANTINGS IMPACTED BY THE WORK FOR RE-INSTALLATION
4. PROTECT EXISTING LANDSCAPING, OUT BUILDINGS, AND SEPTIC SYSTEM DURING CONSTRUCTION
5. SEE MEP DRAWINGS FOR ADDITIONAL DEMOLITION WORK TO BE PERFORMED.
6. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COMPLETE SCOPE OF WORK.

- BID ALTERNATE No. 1**
- REMOVE EXISTING RAILINGS COMPLETE ON FRONT PORCH
  - REMOVE BALUSTERS ON BACK SCREENED PORCH, EXISTING POSTS, RAILS AND 2x4 FRAMING TO REMAIN
  - REMOVE EXISTING WOOD DECKING FROM EXISTING SCREEN PORCH

date	description	no.
revisions		

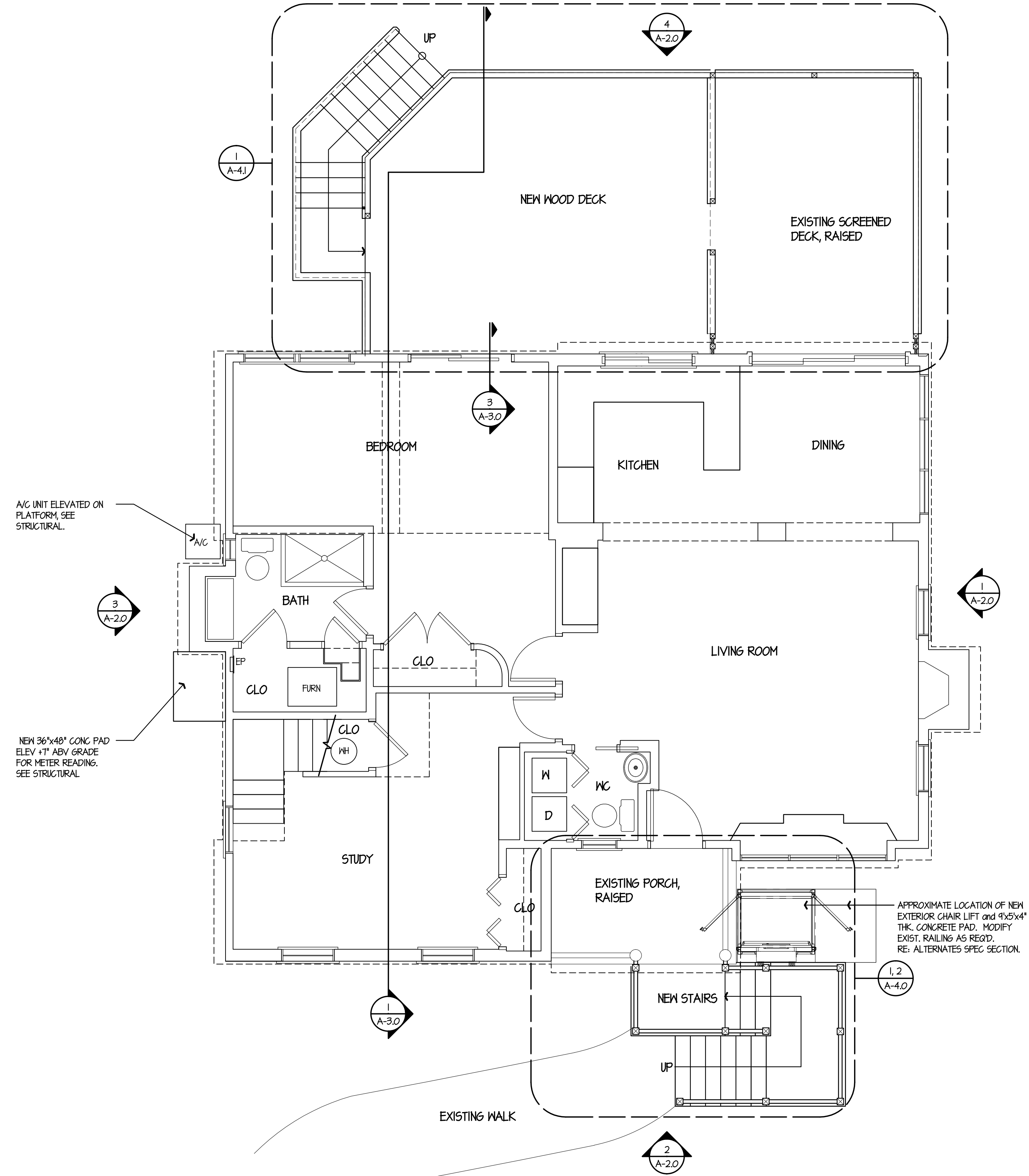
**DEMOLITION FLOOR PLANS**

**D-1.0**

date	05 OCT 2015
drawn	NF/PR
scale	AS SHOWN
checked	JP/DH
project no.	1347-44
application no.	1819

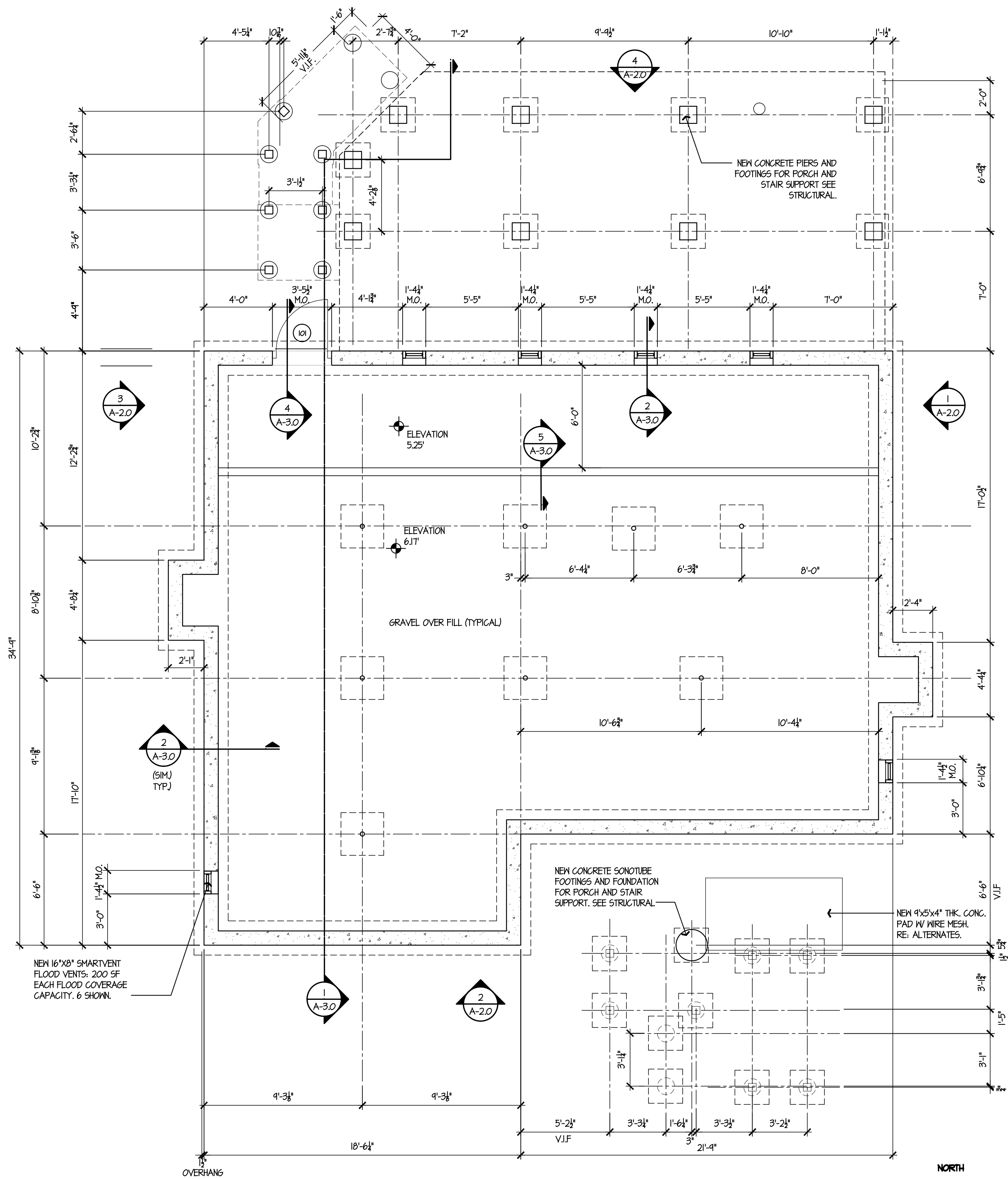
THE STATE OF CONNECTICUT  
DEPARTMENT OF HOUSING (DOH)  
COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR)  
OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)

REHABILITATION and MITIGATION for the RIZZUTO RESIDENCE  
APPLICATION No. 1819  
90 Pratt Road,  
Clinton, CT 06413



2 FIRST FLOOR PLAN

A-1.0 1/4" = 1'-0"



1 NEW FOUNDATION PLAN

A-1.0 1/4" = 1'-0"



GENERAL NOTES:

- ELEVATE HOME OUT OF FLOOD ZONE.
  - 1.1. 100 YEAR FLOOD ELEVATION (NAVD 88) = 10.00'
  - 1.2. NEW FIRST FLOOR DESIGN ELEVATION = 13.15'
- ELEVATE EXISTING DECK AND PORCHES TO FIRST FLOOR -1" LEVEL.
- REBUILD EXISTING "DECK TO BE REMOVED" AS SHOWN.
- PROVIDE COMPOSITE DECKING ON FRONT STAIRS, PT WOOD DECKING ON BACK DECK AND STAIRS.
- PROVIDE NEW WOOD FRAMED STAIRS, LANDINGS AND RAILINGS.
- PROVIDE NEW GROUND LEVEL GRANULOSPACE WITH CRUSHED STONE FLOOR.
  - GRANULOSPACE LEVEL FOR STORAGE ONLY.
  - PROVIDE FLOOD VENTS IN STORAGE GRANULOSPACE.
  - PROVIDE VINYL LATTICE AND PVC FRAME COVERING CONCRETE FOUNDATION AND BELOW DECKS AND STAIRS. PAINT EXPOSED STRUCTURE WHITE.

- ALTERNATE #1:
- REPLACE PT WOOD BALUSTERS WITH SS WIRE RAILING SYSTEM.
  - REPLACE ALL PT WOOD DECKING WITH COMPOSITE.

date	description	no.
revisions		

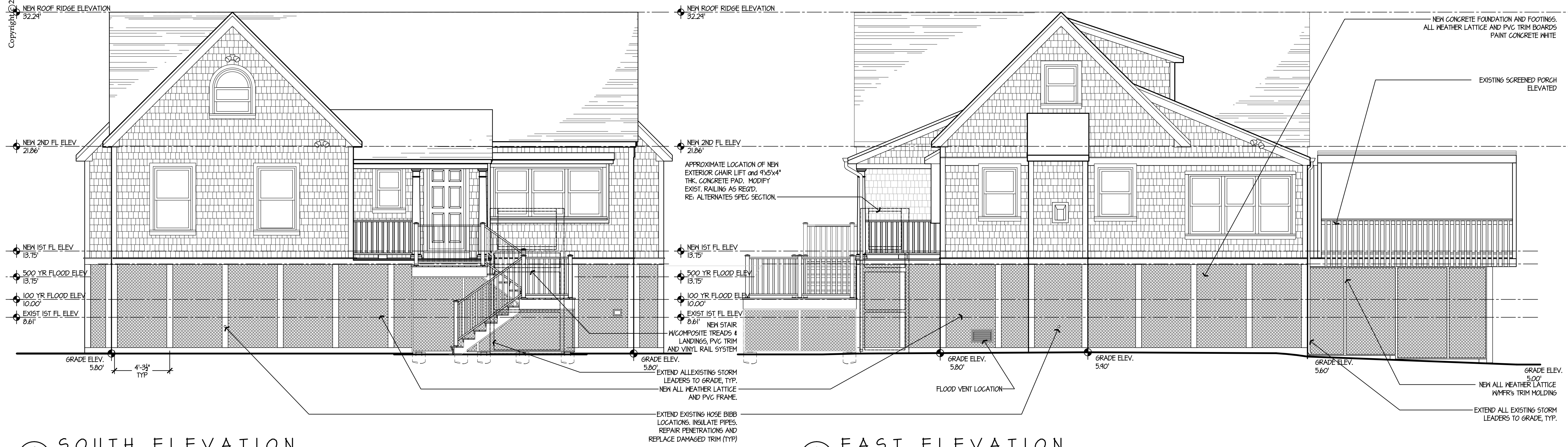
NEW FLOOR PLANS

**A-1.0**

date	05 OCT 2015
drawn	NF/PR
scale	AS SHOWN
checked	JP/DH
project no.	1347-44
application no.	1819

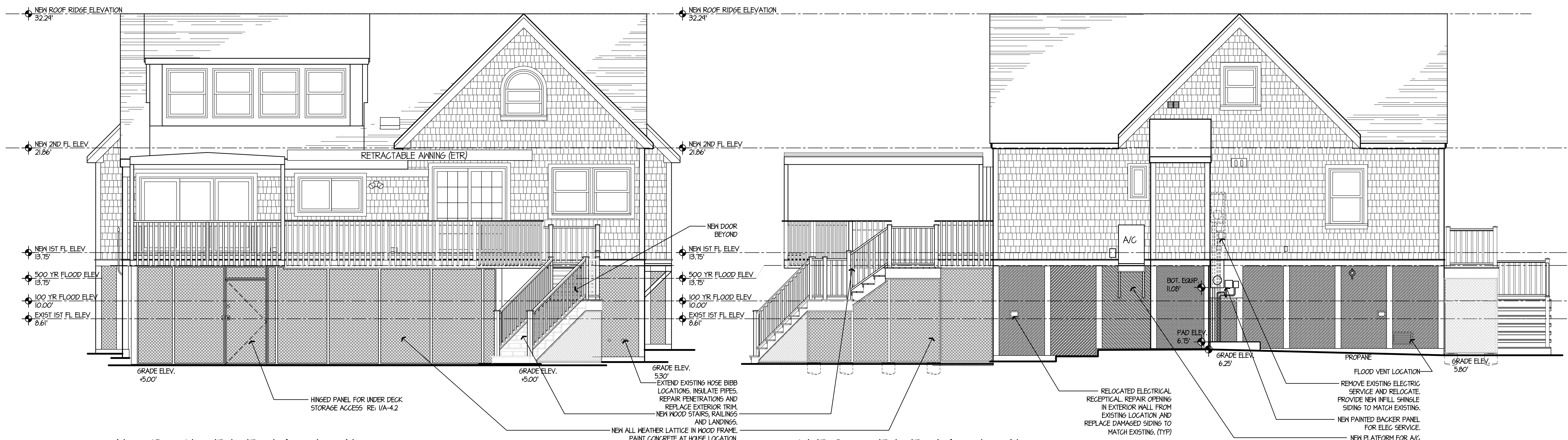
THE STATE OF CONNECTICUT  
DEPARTMENT OF HOUSING AND  
COMMUNITY DEVELOPMENT BLOCK  
GRANT - DISASTER RECOVERY (CDBG-DR)  
OWNER OCCUPIED REHABILITATION and  
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REHABILITATION and MITIGATION for the  
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2 SOUTH ELEVATION  
A-2.0 1/4" = 1'-0"

1 EAST ELEVATION  
A-2.0 1/4" = 1'-0"



4 NORTH ELEVATION  
A-2.0 1/4" = 1'-0"

3 WEST ELEVATION  
A-2.0 1/4" = 1'-0"

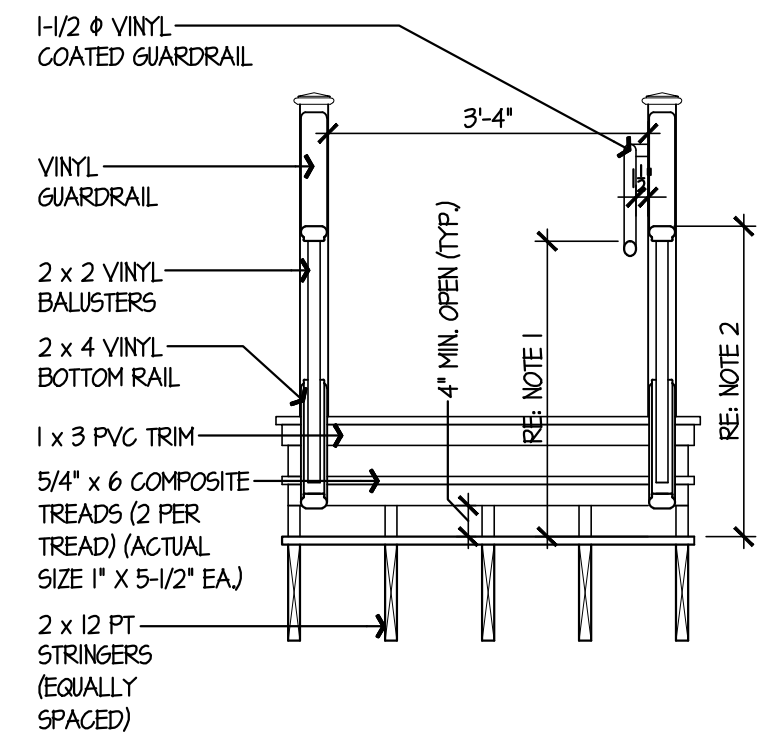
date	description	no.
	revisions	

**ELEVATIONS**

**A-2.0**

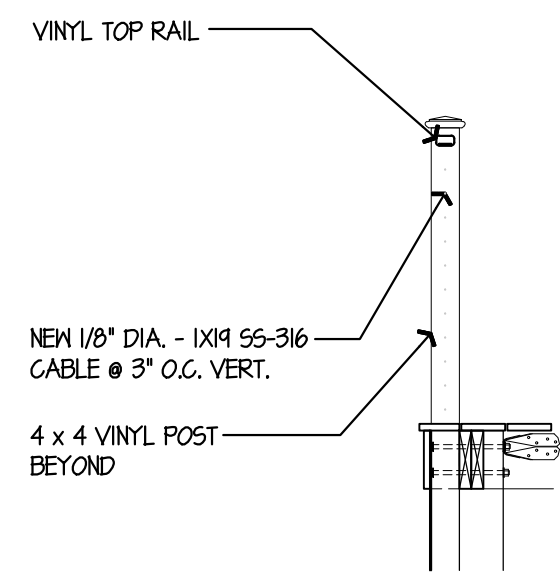
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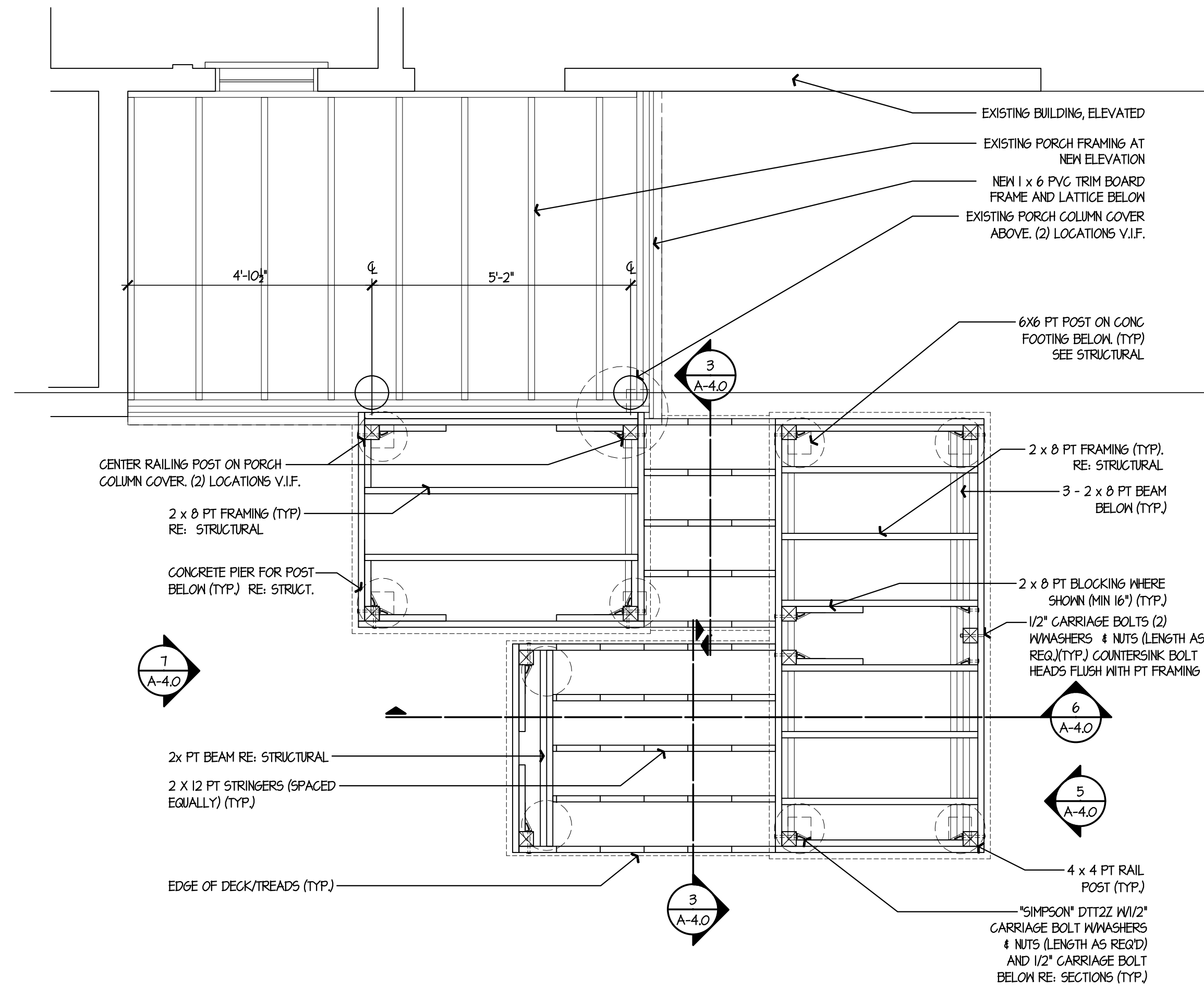
NOTE 1 - HANDRAIL MIN. HEIGHT 34" - MAX HEIGHT 38" ABOVE TREAD NOSING  
 NOTE 2 - GUARDRAIL MIN. HEIGHT 36"  
 HANDRAIL TO BE LOCATED MIN. 1/2" BELOW TOP OF GUARDRAIL

**3 STAIR SECTION**  
 1/2" = 1'-0"

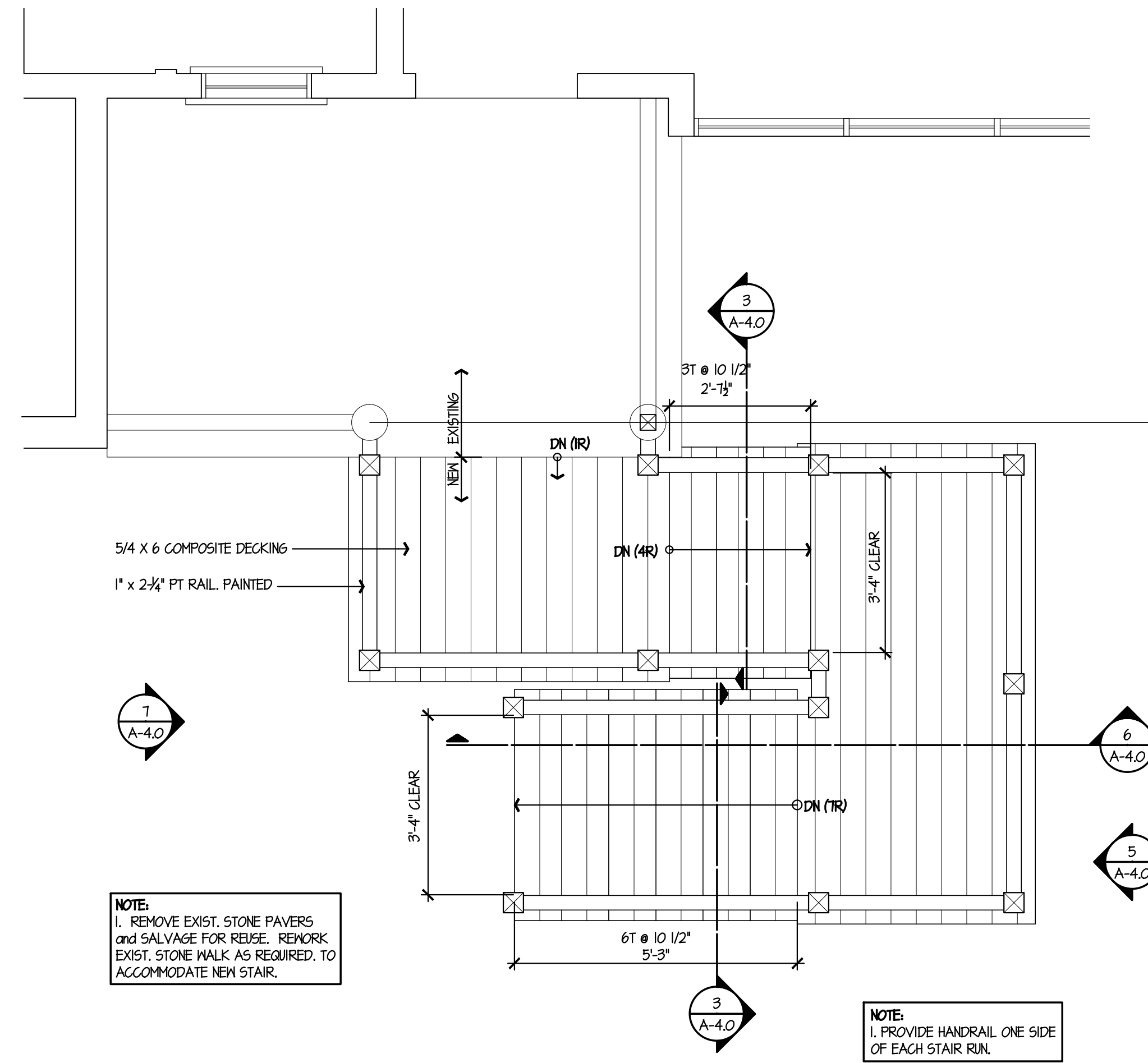


NOTE: TOP RAIL AND CAP TO BE PT AT REAR STAIR.

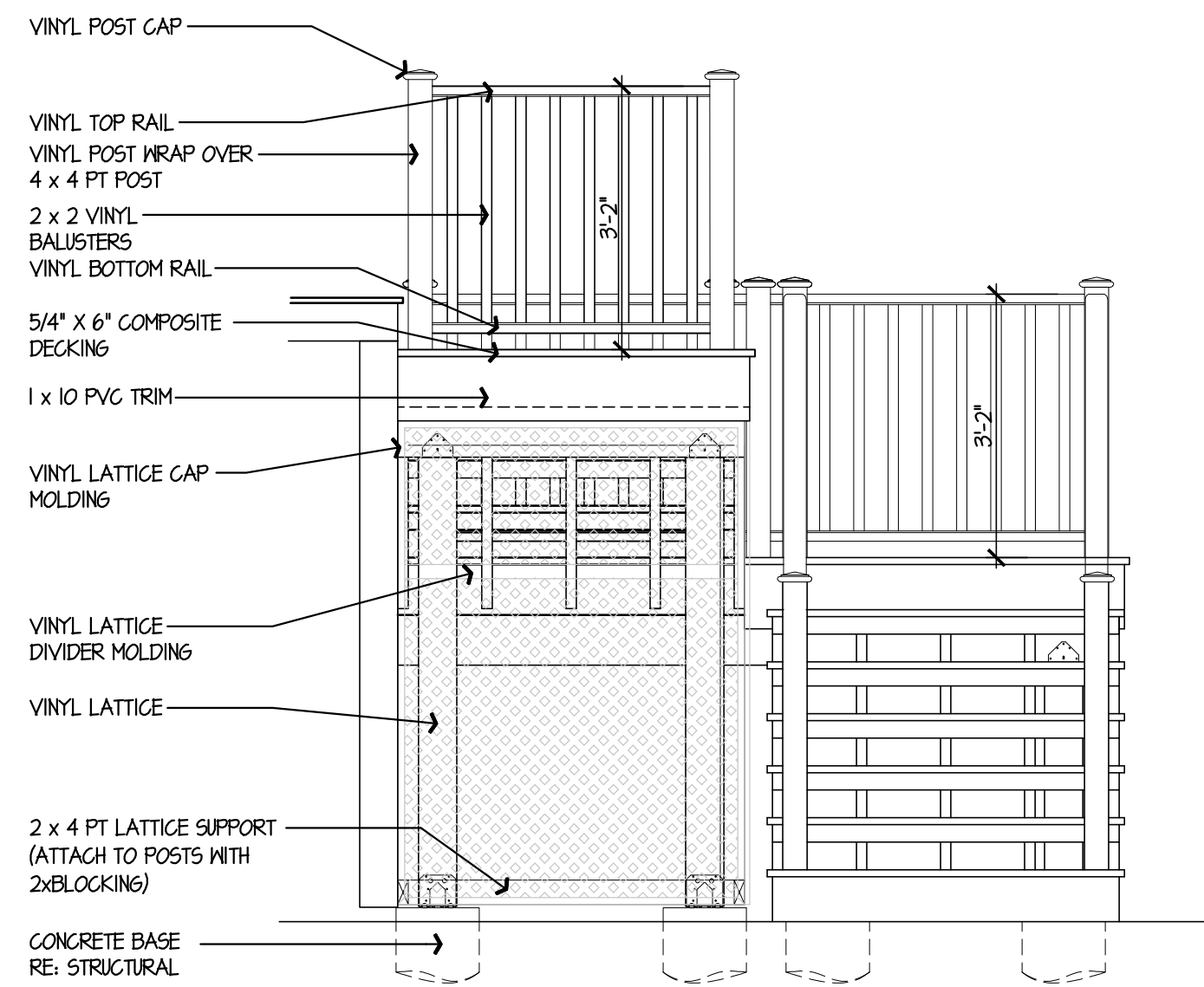
**4 RAILING ALT #1**  
 1/2" = 1'-0"



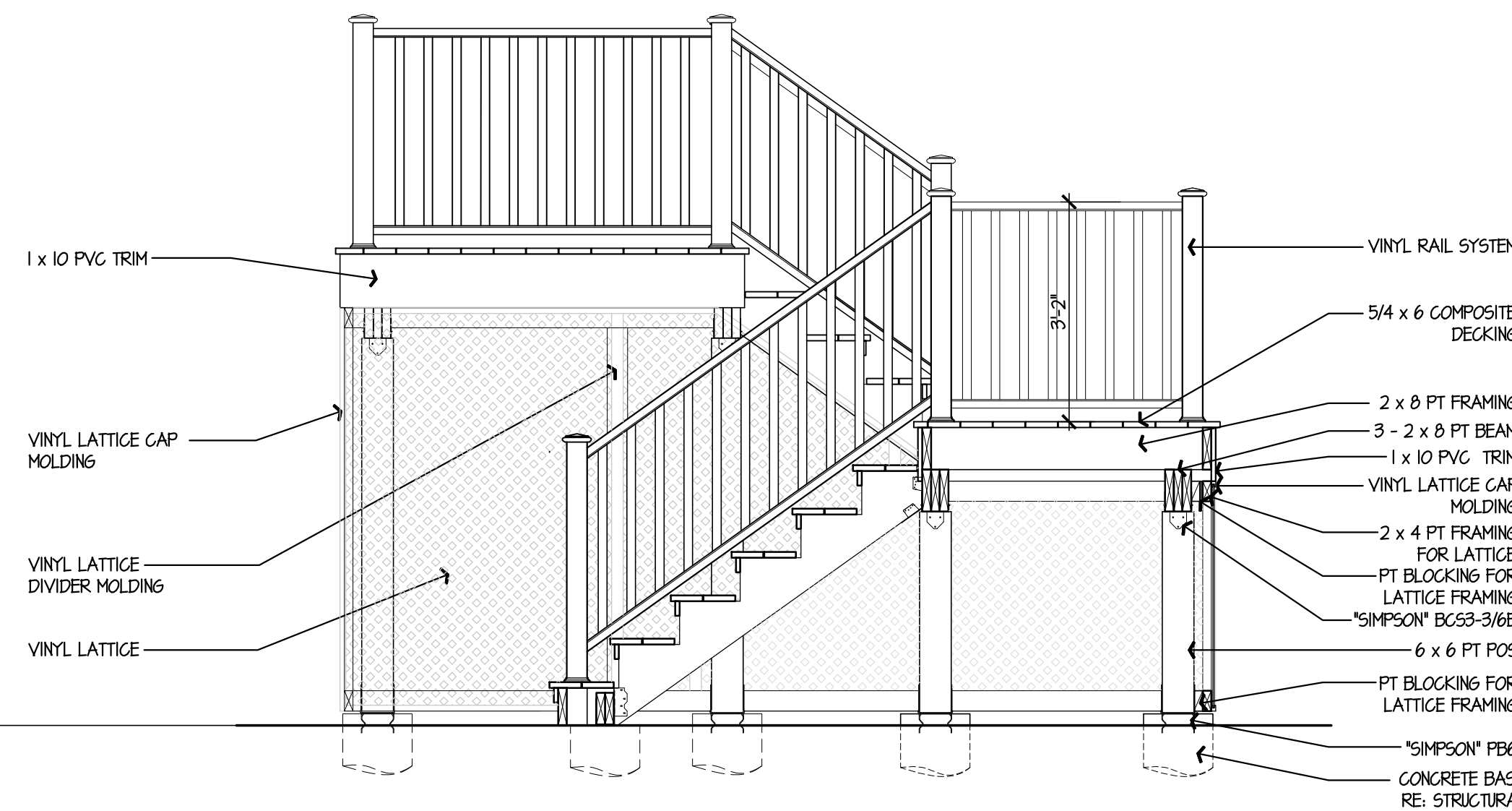
**2 PORCH STAIR FRAMING PLAN**  
 1/2" = 1'-0"



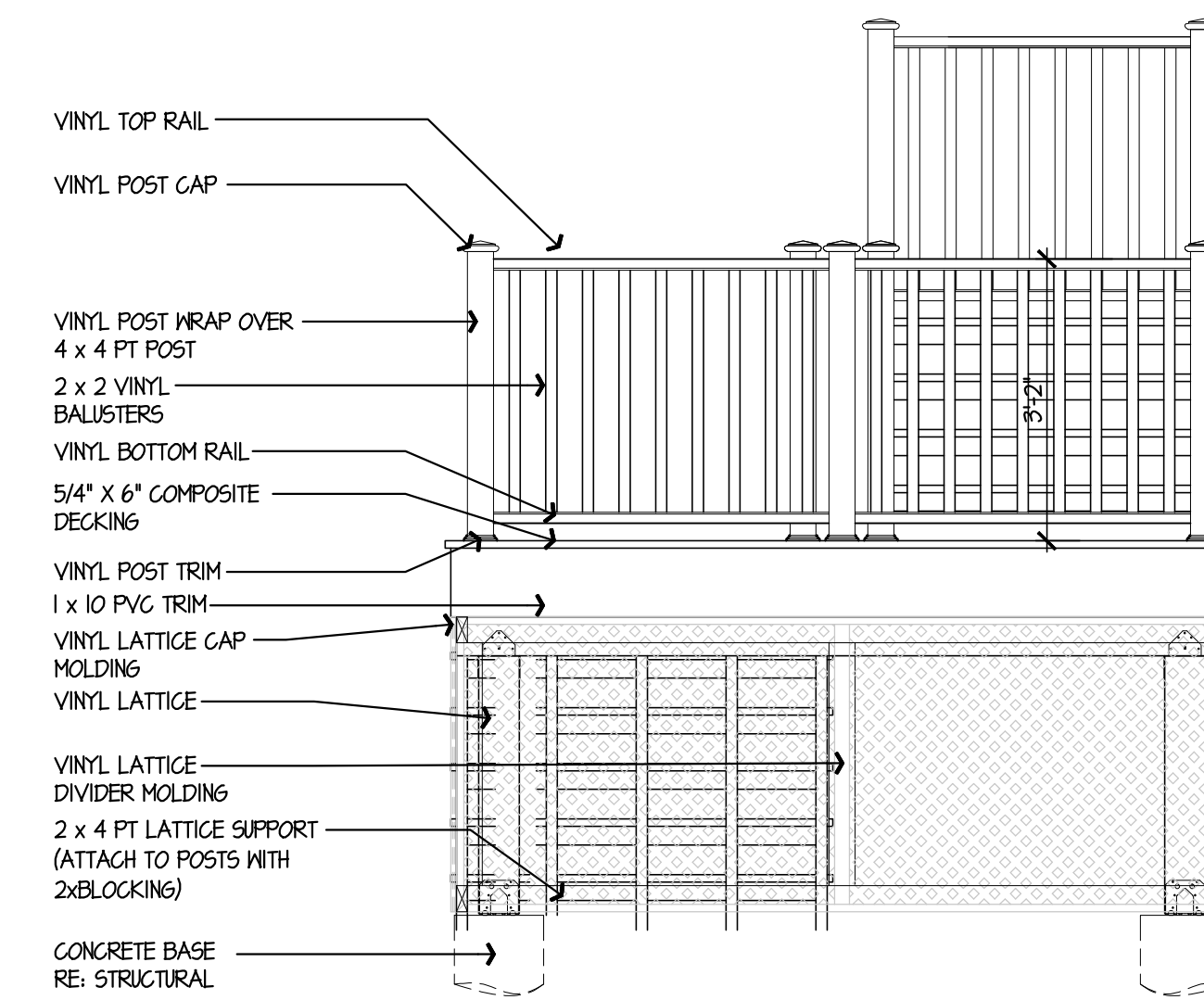
**1 PORCH STAIR DECKING PLAN**  
 1/2" = 1'-0"



**7 FRONT STAIR ELEVATION**  
 1/2" = 1'-0"



**6 FRONT STAIR ELEVATION**  
 1/2" = 1'-0"



**5 FRONT STAIR ELEVATION**  
 1/2" = 1'-0"

THE STATE OF CONNECTICUT  
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REHABILITATION and MITIGATION for the RIZZUTO RESIDENCE  
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date	description	no.
	revisions	

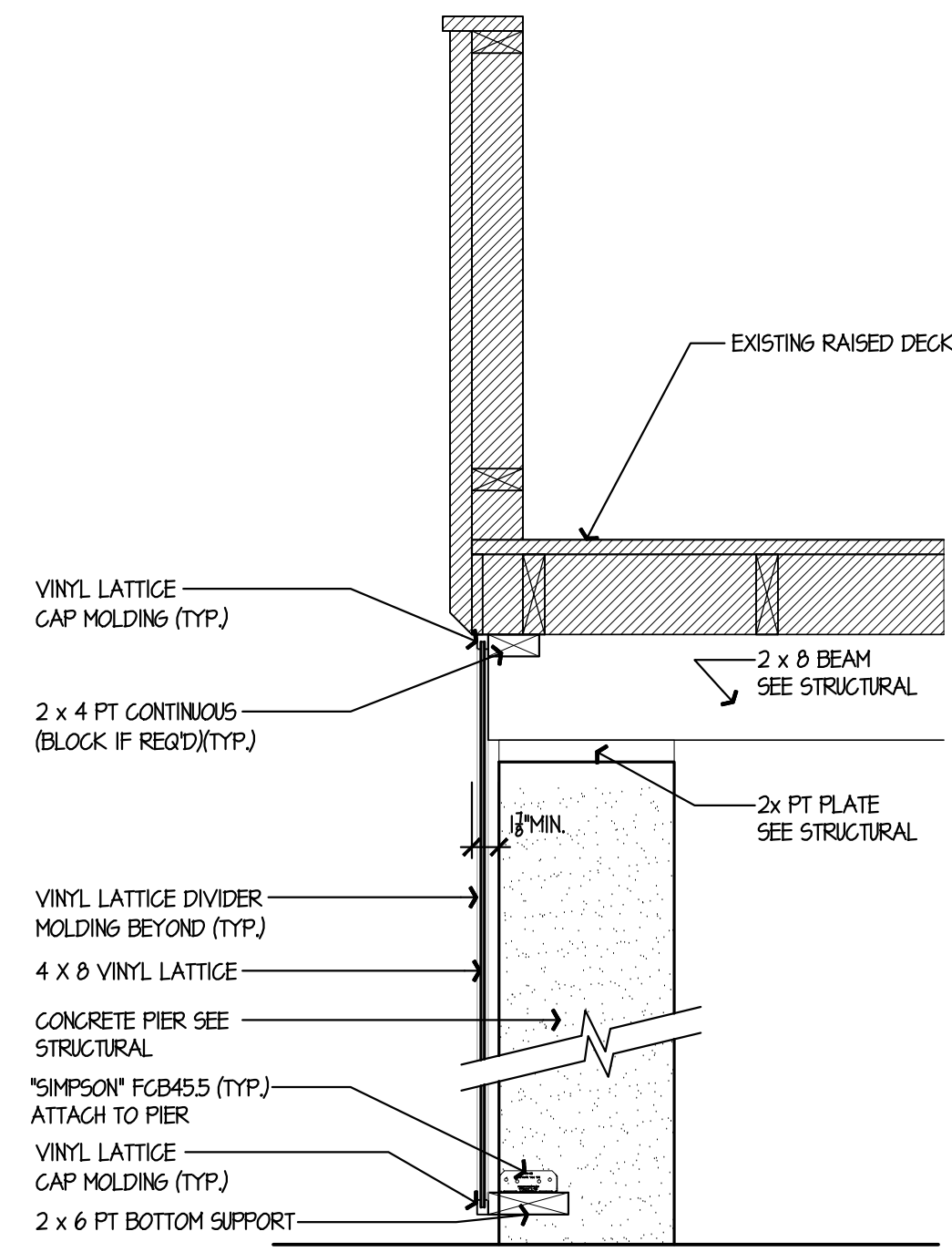
**PORCH STAIR DETAILS**

**A-4.0**

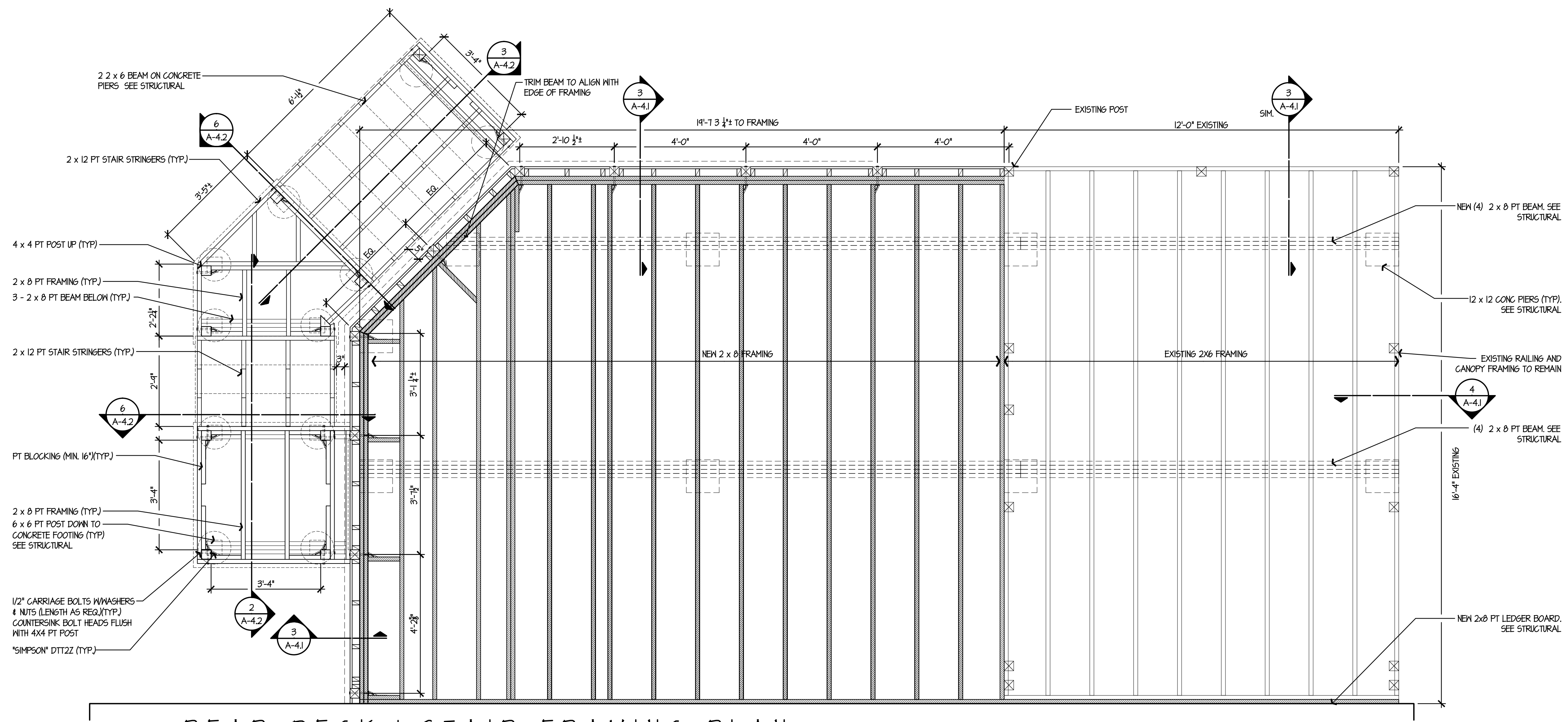
date	05 OCT 2015
drawn	NF/PR
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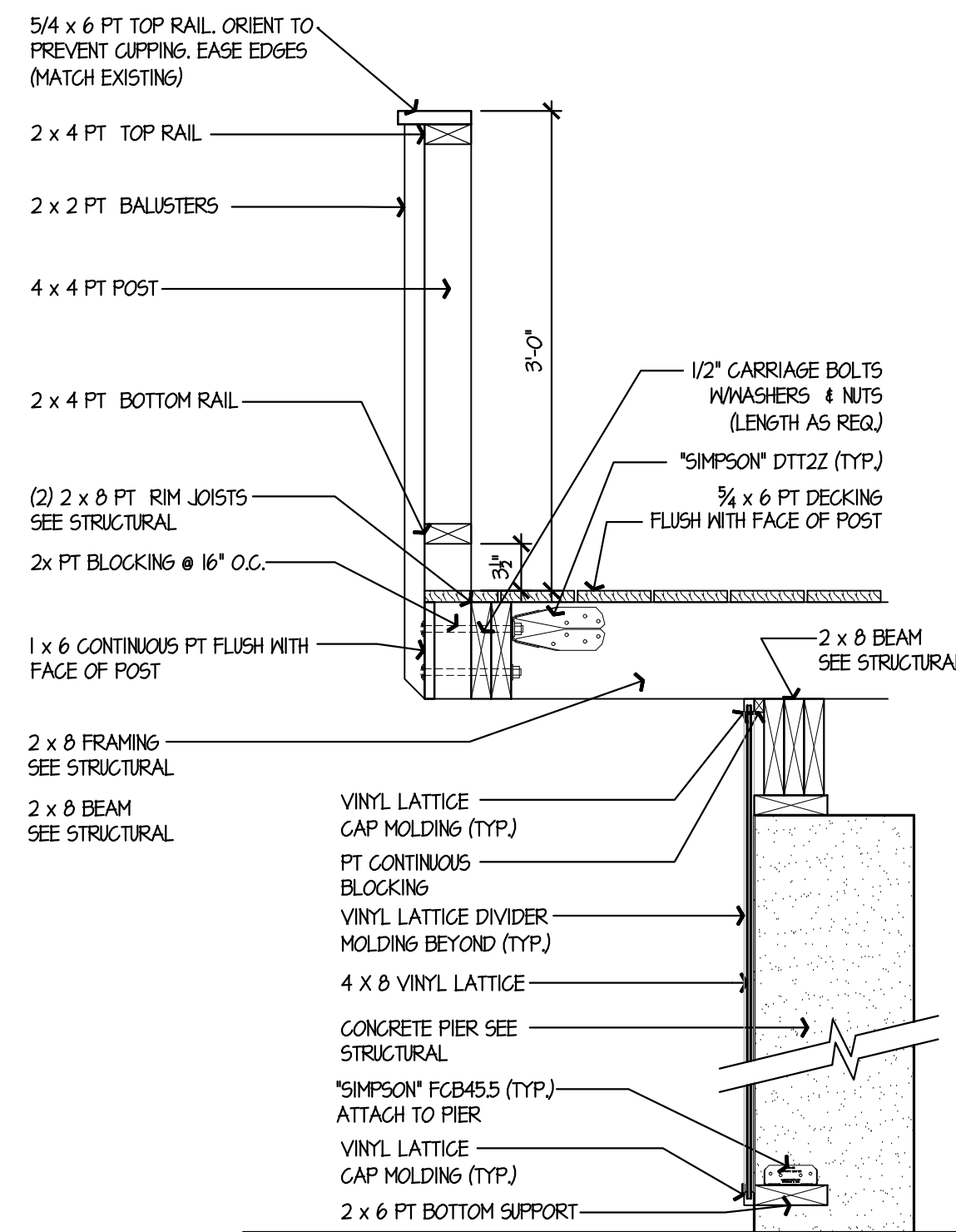
REHABILITATION and MITIGATION for the RIZZUTO RESIDENCE  
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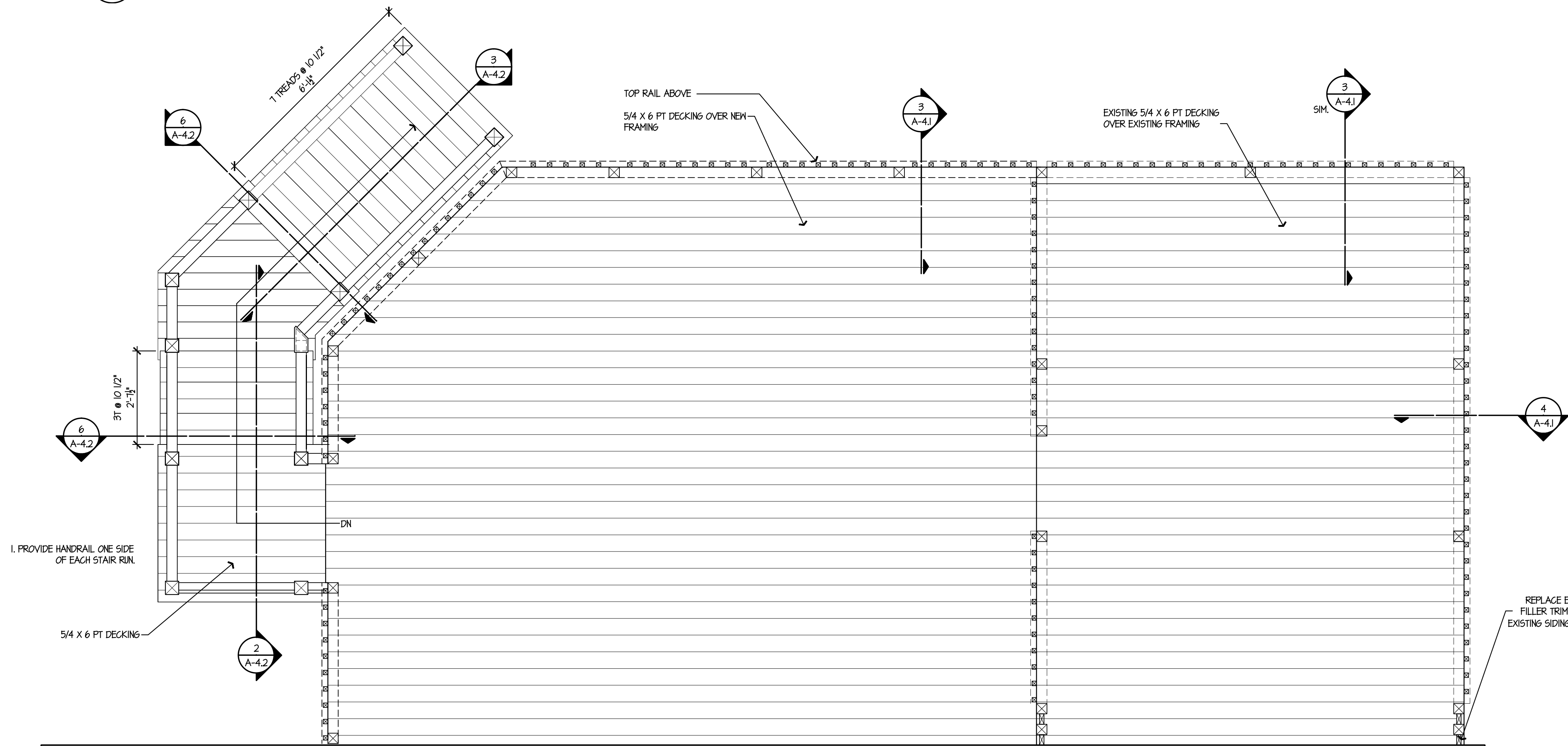
**4** RAILING SECTION  
A-4.1 1" = 1'-0"



**1** REAR DECK & STAIR FRAMING PLAN  
A-4.1 1/2" = 1'-0"



**3** RAILING SECTION  
A-4.1 1" = 1'-0"



**2** REAR DECK & STAIR DECKING PLAN  
A-4.1 1/2" = 1'-0"

date	description	no.
	revisions	

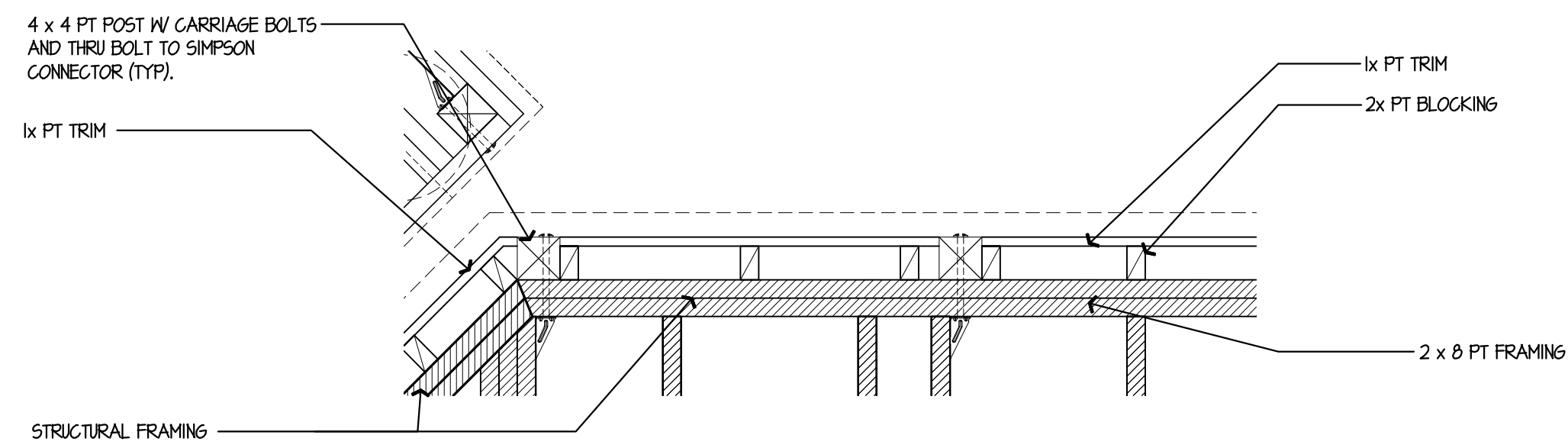
**DECK AND STAIR DETAILS**

**A-4.1**

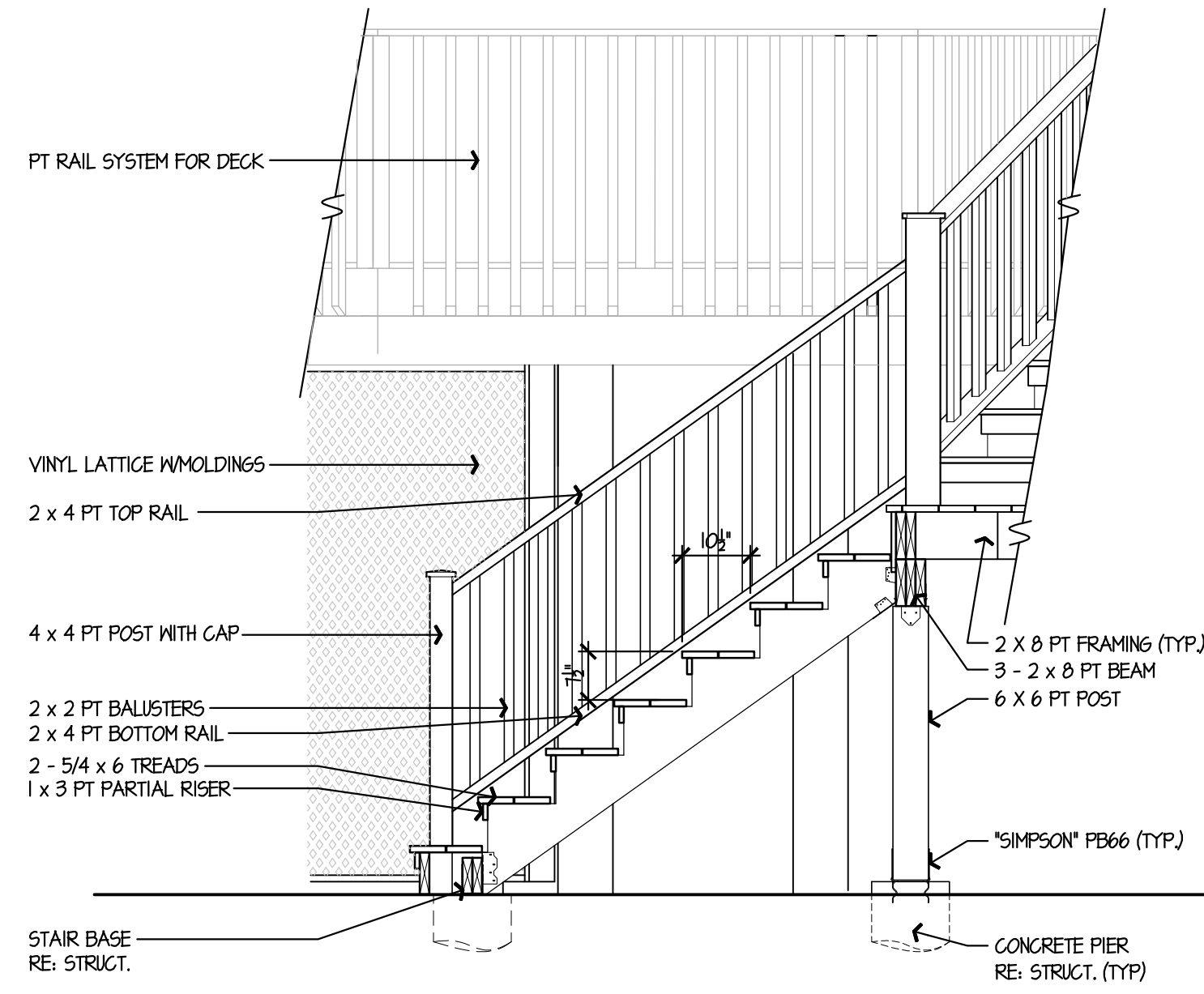
date	05 OCT 2015
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THE STATE OF CONNECTICUT  
DEPARTMENT OF HOUSING (DOH)  
COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR)  
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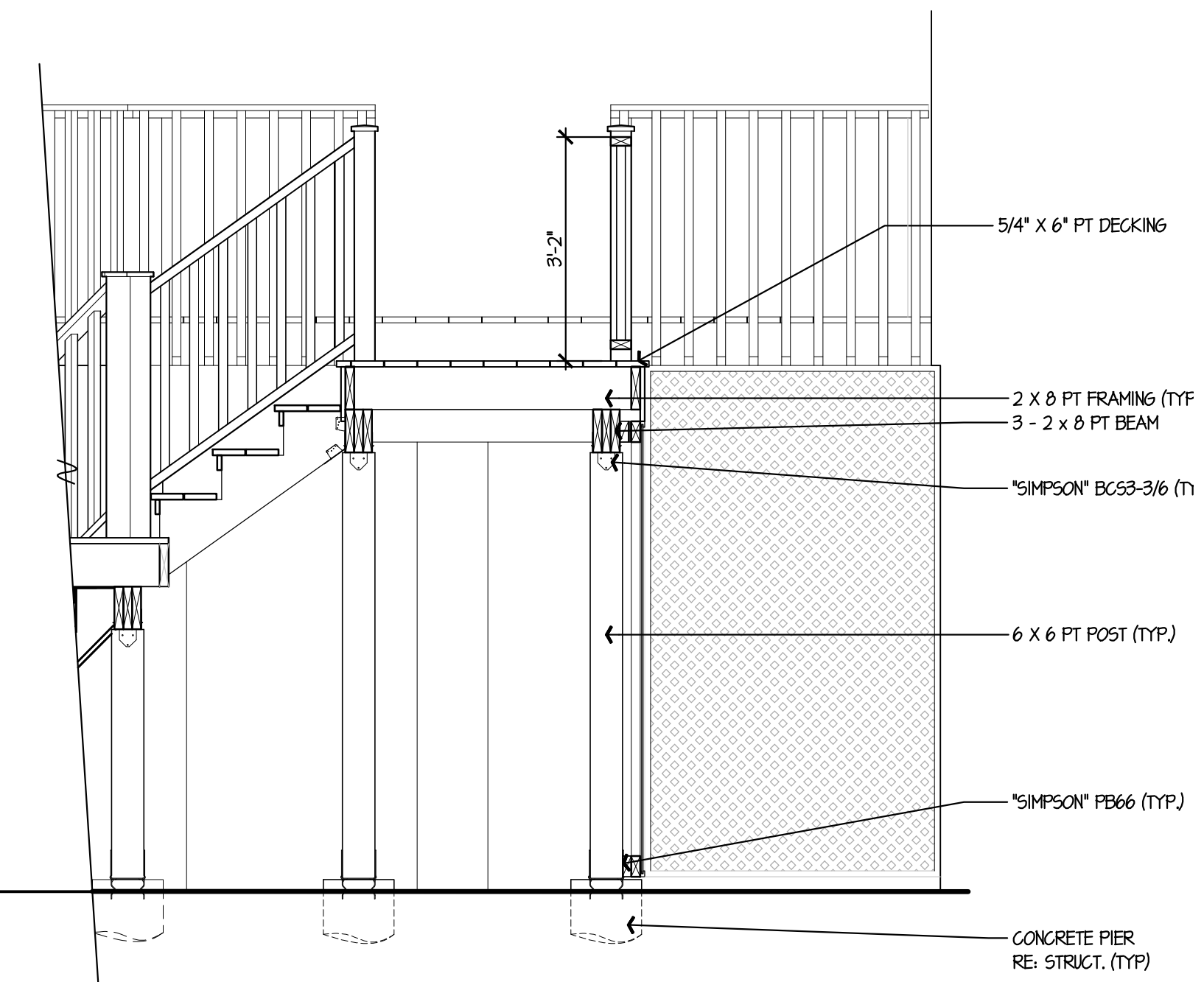
REHABILITATION and MITIGATION for the RIZZUTO RESIDENCE  
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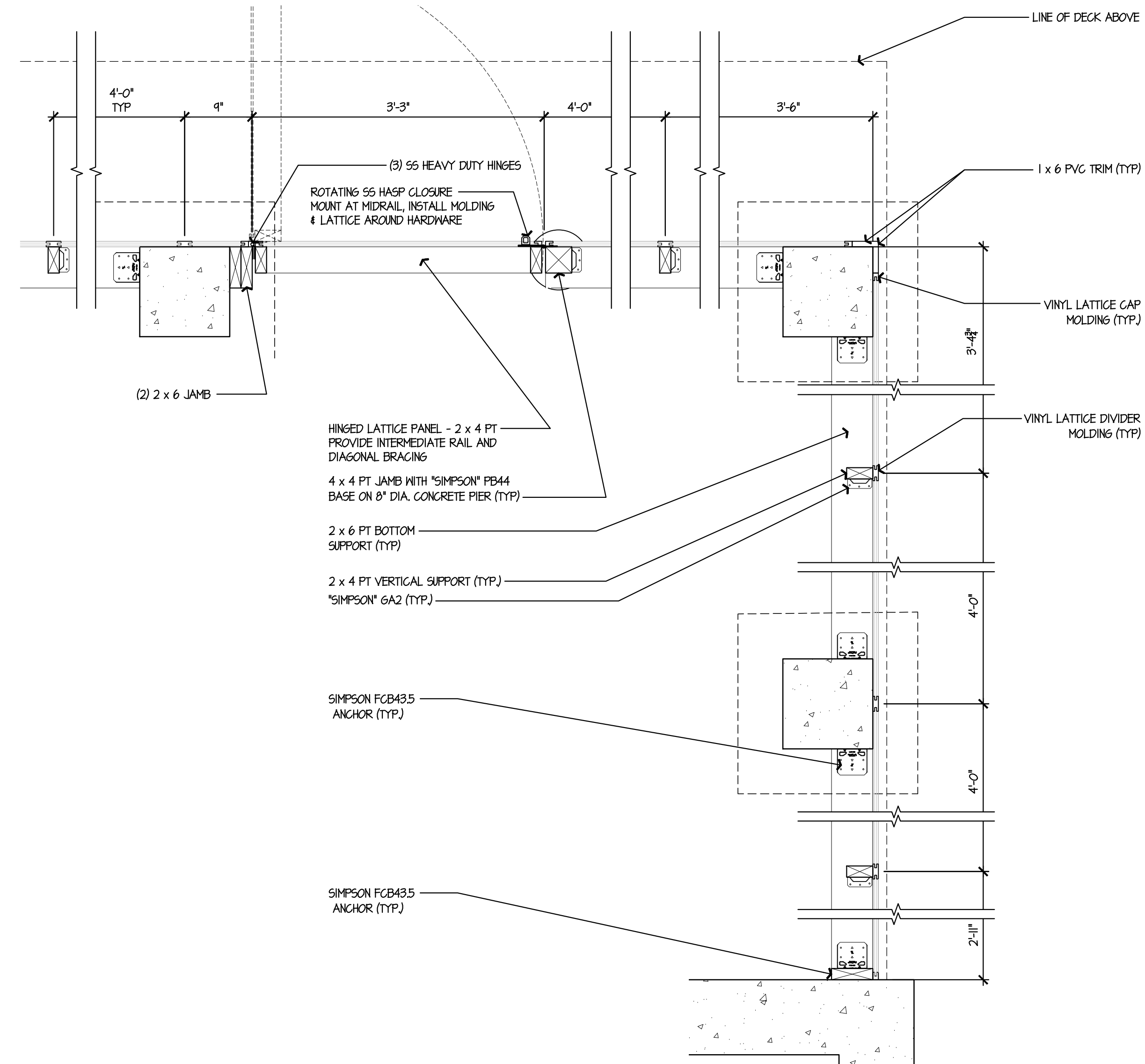
**4** FRAMING PLAN DETAIL  
A-4.2 1" = 1'-0"



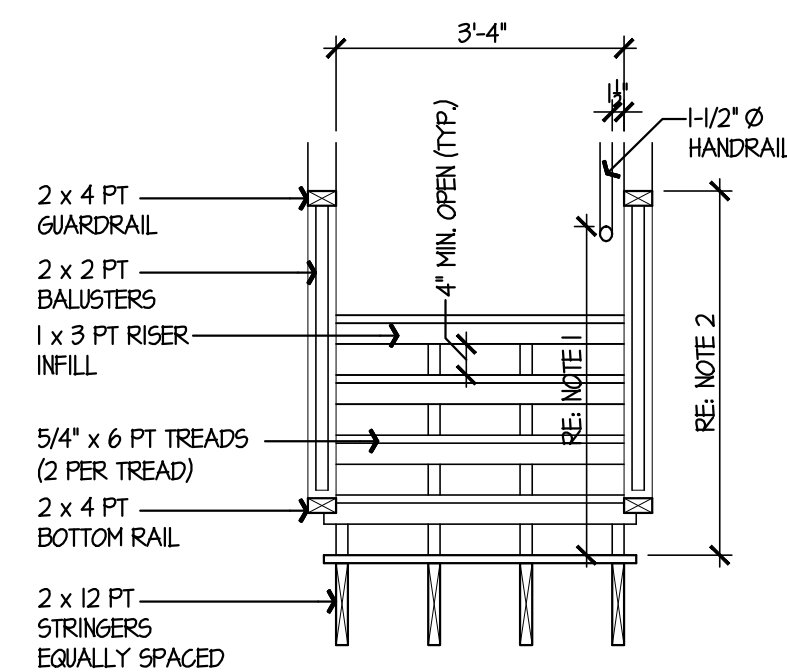
**3** REAR STAIR SECTION  
A-4.2 1/2" = 1'-0"



**2** REAR STAIR SECTION  
A-4.2 1/2" = 1'-0"

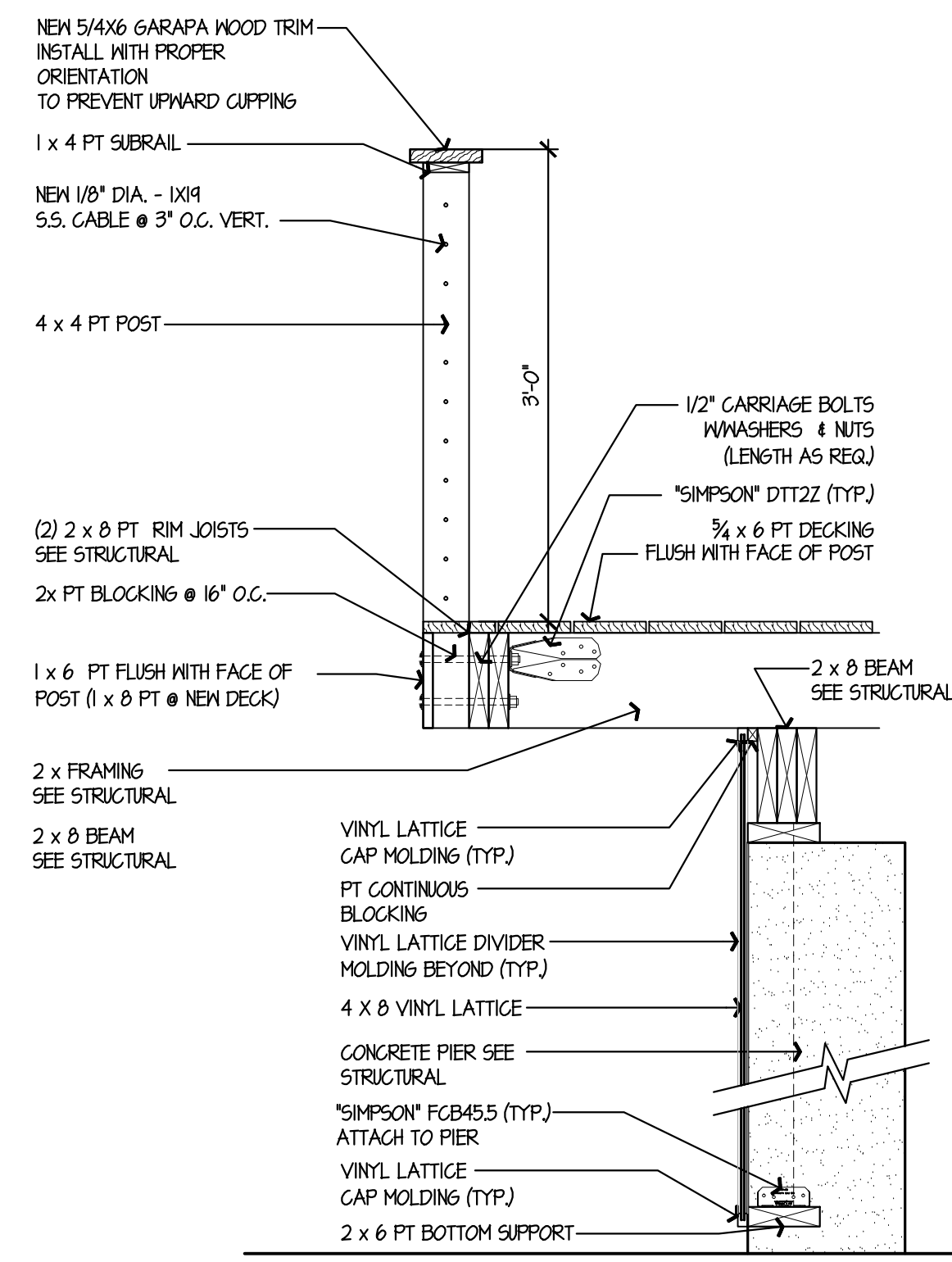


**1** LATTICE FRAME DETAIL  
A-4.2 1" = 1'-0"



NOTE 1 - HANDRAIL MIN. HEIGHT 34" - MAX HEIGHT 38"  
NOTE 2 - GUARDRAIL MIN. HEIGHT 36"  
HANDRAIL TO BE LOCATED MIN. 1-1/2" BELOW GUARDRAIL

**6** RAILING SECTION  
A-4.2 1" = 1'-0"



**5** RAILING SECTION ALT. BID #1  
A-4.2 1" = 1'-0"

date	description	no.
revisions		

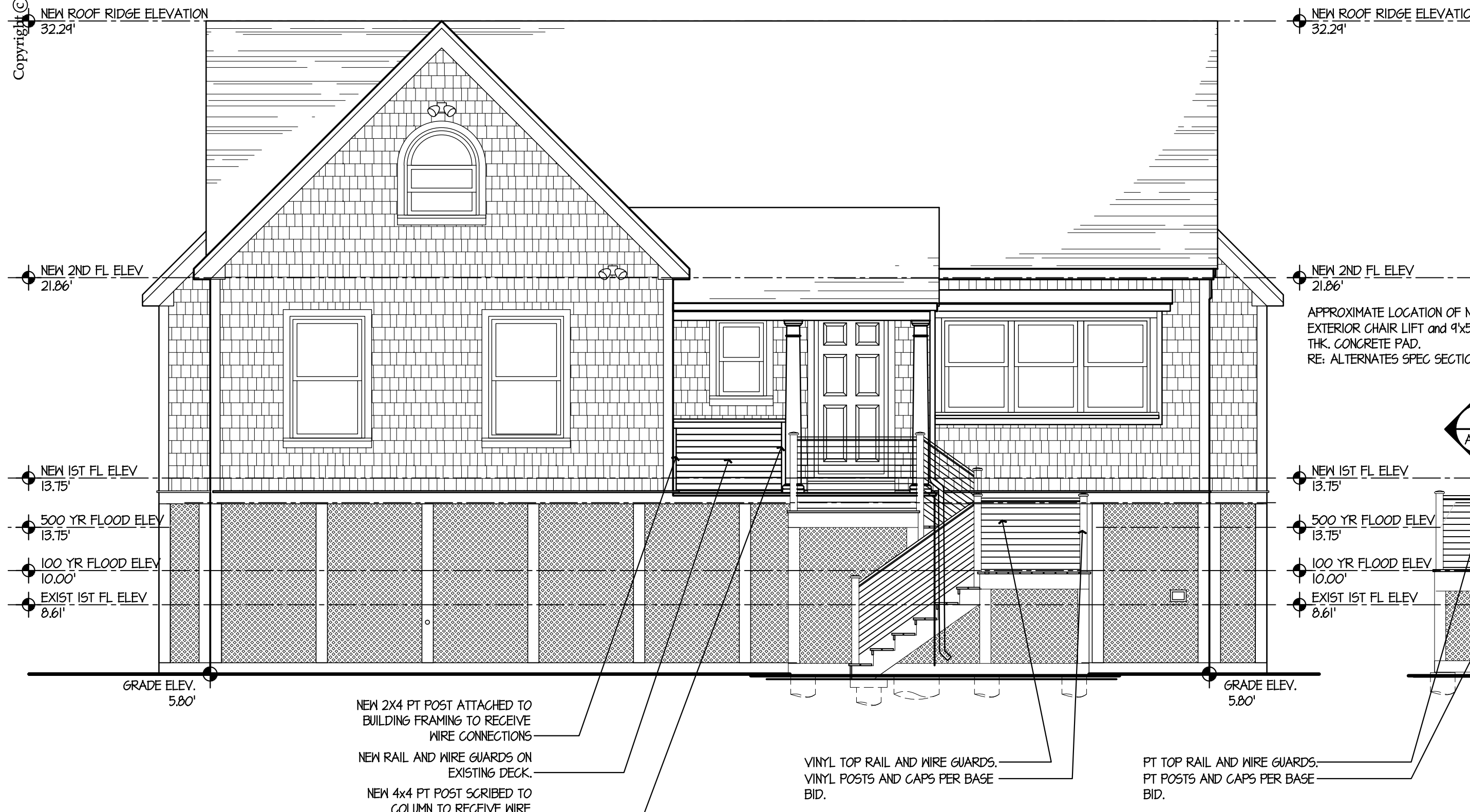
**DECK AND STAIR DETAILS**

**A-4.2**

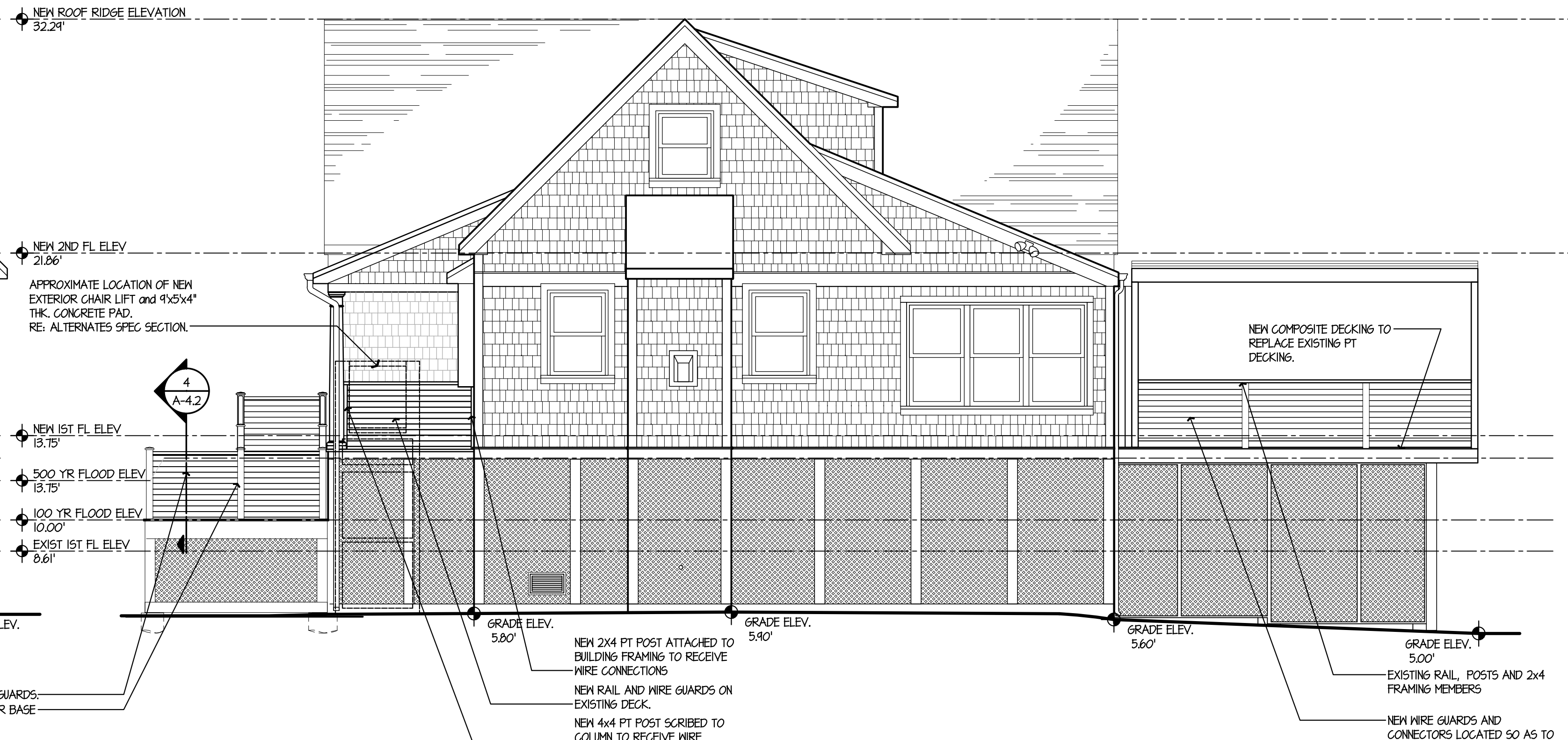
date	05 OCT 2015
drawn	NF/PR
scale	AS SHOWN
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THE STATE OF CONNECTICUT  
DEPARTMENT OF HOUSING (DOH)  
COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR)  
OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OORR)

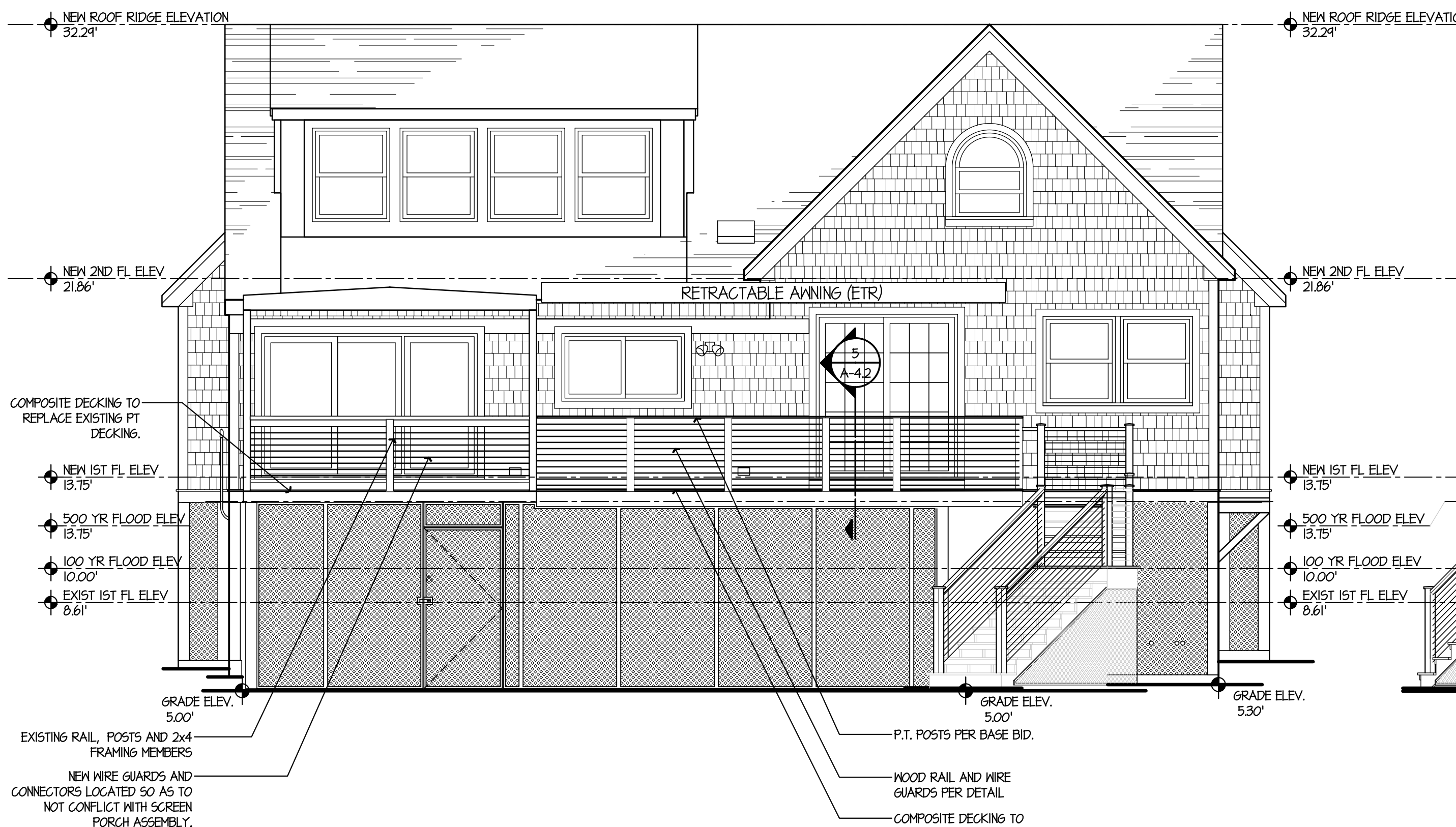
REHABILITATION and MITIGATION for the RIZZUTO RESIDENCE  
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90 Pratt Road,  
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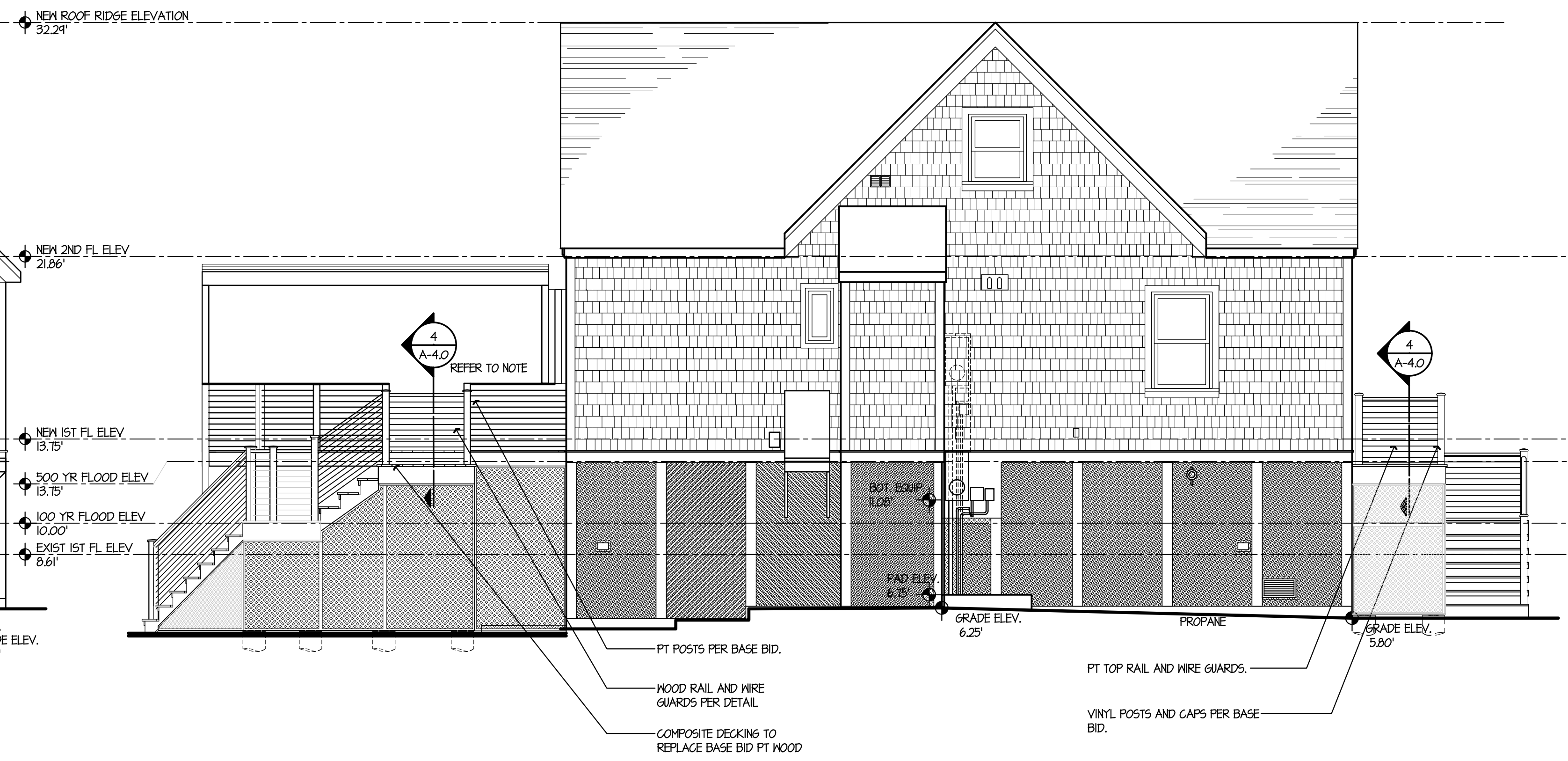
2 SOUTH ELEVATION  
A-5.0 1/4" = 1'-0"



1 EAST ELEVATION  
A-5.0 1/4" = 1'-0"



4 NORTH ELEVATION  
A-5.0 1/4" = 1'-0"



3 WEST ELEVATION  
A-5.0 1/4" = 1'-0"

date	description	no.
	revisions	

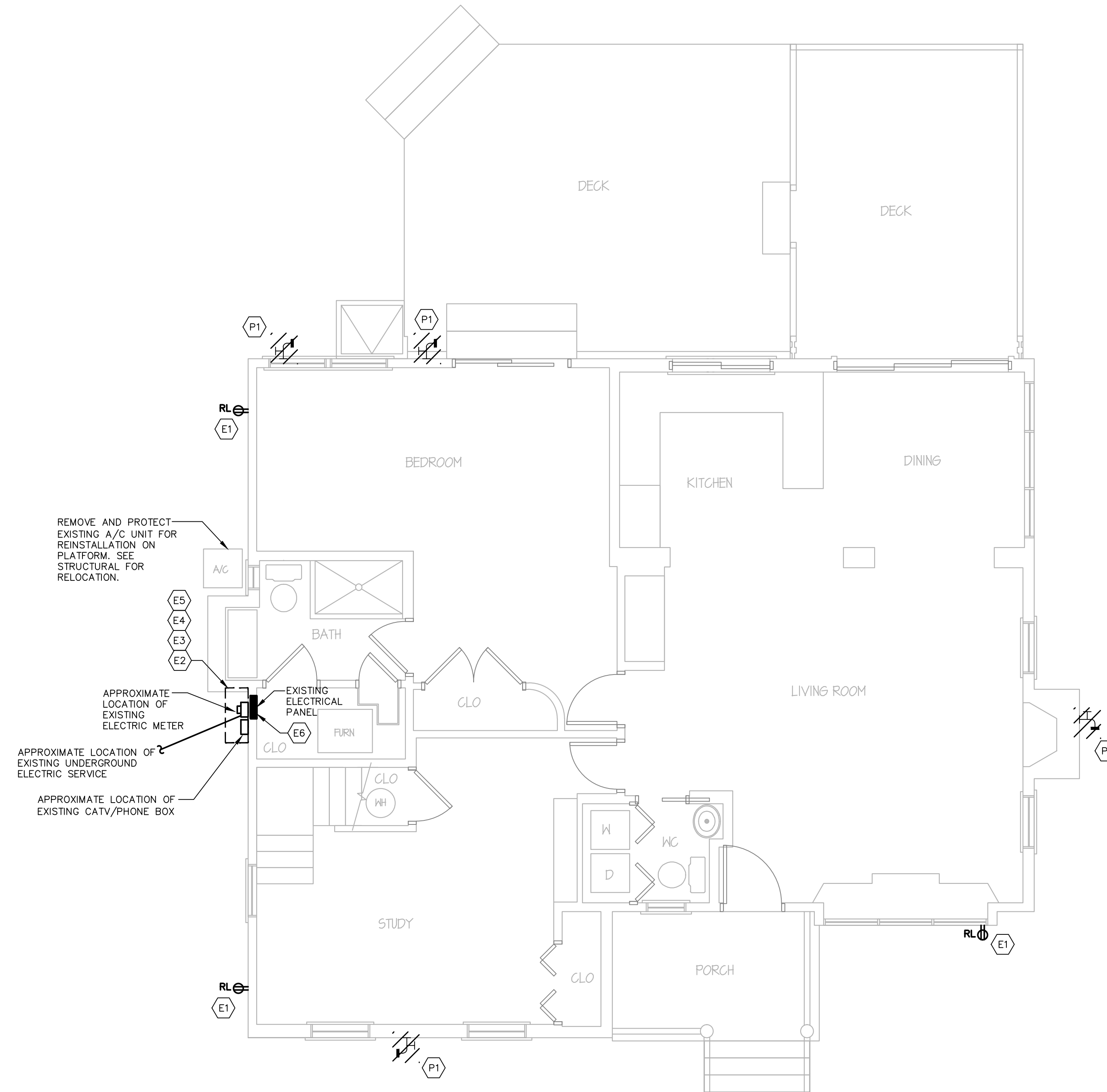
BID ALTERNATE  
No. 1  
ELEVATIONS

**A-5.0**

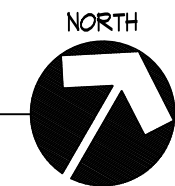
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**GENERAL RENOVATIONS for the RIZZUTO RESIDENCE  
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90 Pratt Road,  
Clinton, CT 06413**



**1 FIRST FLOOR PLAN**  
MEP-1.0 1/4" = 1'-0"



**PLUMBING DEMOLITION KEY NOTES**

(P1) REMOVE EXISTING HOSE BIBB AND ALL ASSOCIATED PIPING UP TO NEAREST ACTIVE MAIN.

**ELECTRICAL DEMOLITION KEY NOTES**

- (E1) EXISTING OUTDOOR WEATHERPROOF RECEPTACLES TO BE RELOCATED. COORDINATE THE REMOVAL, PROTECTION AND STORAGE FOR FUTURE REINSTALLATION. PRESERVE AND PROTECT WIRING AT DISCONNECTION POINT.
- (E2) DISCONNECT EXISTING ELECTRIC SERVICE TO THE RESIDENCE. COORDINATE WITH THE ELECTRIC COMPANY ALL PARTS, LABOR AND MATERIALS ASSOCIATED WITH THE DISCONNECTION OF EXISTING SERVICE. EXISTING DISCONNECTED SERVICE WIRING SHALL BE PRESERVED AND PROTECTED FOR FUTURE RECONNECTION.
- (E3) DISCONNECT EXISTING CATV AND TELEPHONE SERVICE TO THE RESIDENCE. COORDINATE WITH CATV AND PHONE COMPANY ALL PARTS, LABOR AND MATERIALS ASSOCIATED WITH THE DISCONNECTION OF EXISTING SERVICE. EXISTING DISCONNECTED SERVICE WIRING SHALL BE PRESERVED AND PROTECTED FOR FUTURE RECONNECTION.
- (E4) REMOVE EXISTING ELECTRIC METER AND METER ENCLOSURE. PROTECT AND STORE FOR FUTURE REUSE/RECONNECTION.
- (E5) REMOVE EXISTING CATV AND TELEPHONE BOXES. PROTECT AND STORE FOR FUTURE REUSE/RECONNECTION.
- (E6) DISCONNECT MAIN ELECTRICAL PANEL FROM METER LOCATION. MAIN PANEL TO REMAIN. PRESERVE AND PROTECT WIRING FOR FUTURE REUSE/RECONNECTION.

**CES**  
Consulting Engineering Services, Inc.  
1811 Middle Street  
Middletown, CT 06457  
Tel. (860) 632-1682  
Fax. (860) 632-1788  
CES #2014064.00

date	description	no.
revisions		

**MEP DEMOLITION FLOOR PLANS**

**MEP-1.0**

date	OCTOBER 5, 2015
drawn	ANK/VCM
scale	AS SHOWN
checked	DTB
project no.	2014064.00
application no.	1819

**THE STATE OF CONNECTICUT  
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**CLS**  
Consulting Engineering Services, Inc.  
1811 Middle Street  
Middletown, CT 06457  
Tel. (860) 632-1682  
Fax. (860) 632-1788  
CLS #2014064.00

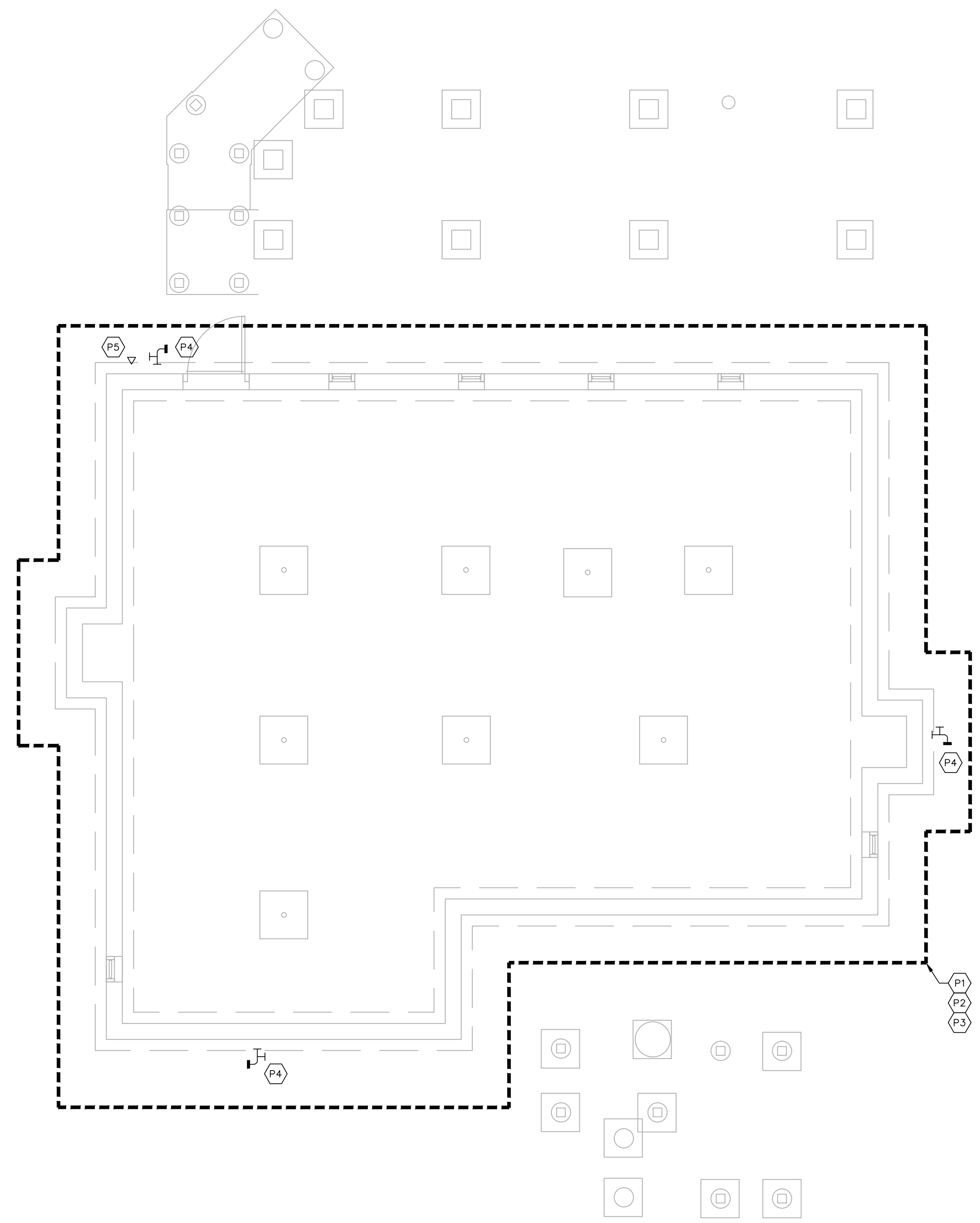
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revisions		

**PLUMBING FLOOR PLANS**

**P-1.0**

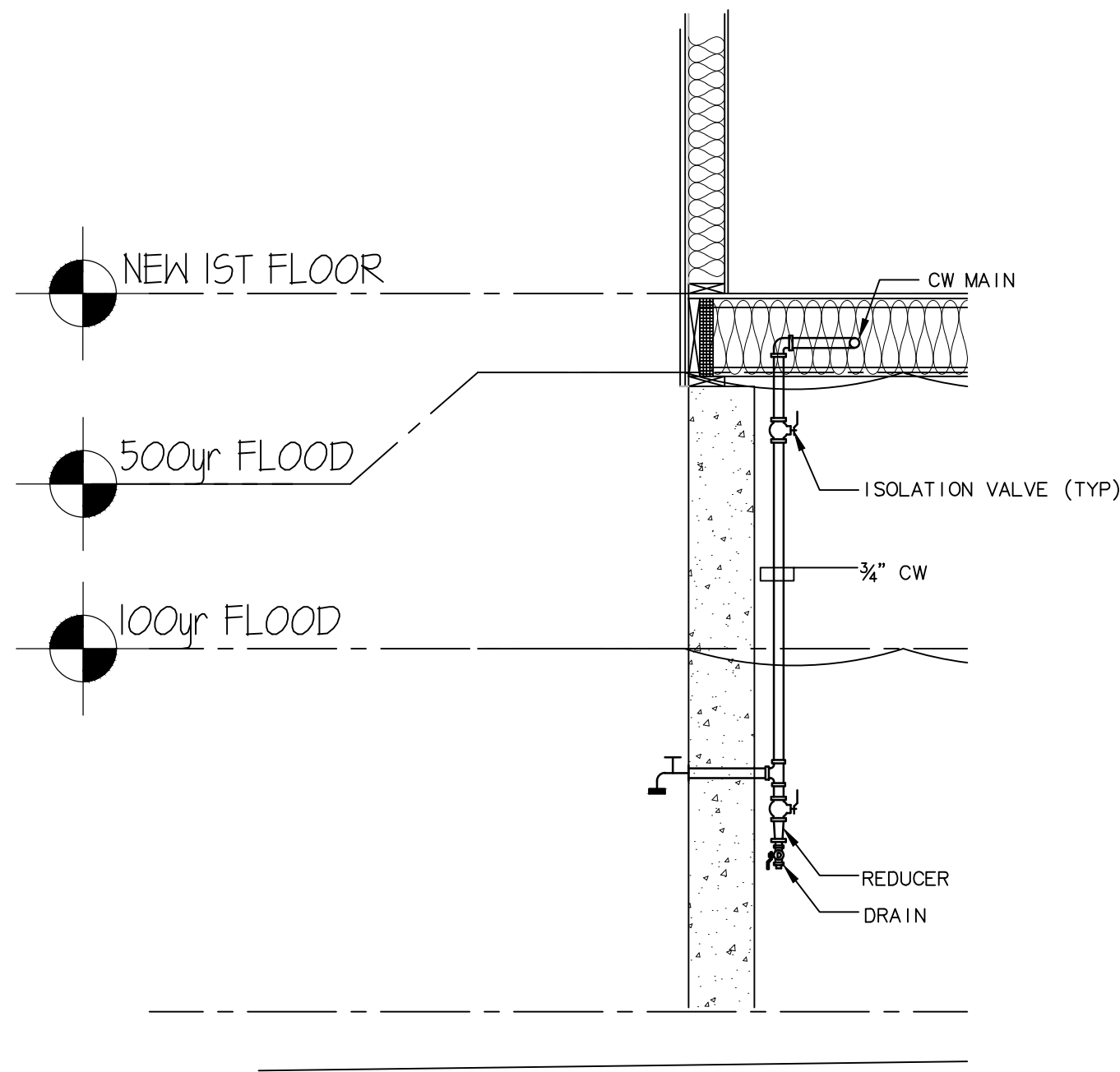
date	OCTOBER 5, 2015
drawn	ANK
scale	AS SHOWN
checked	DTB
project no.	2014064.00
application no.	1819

- GENERAL NOTES ALL TRADES**
- PLUMBING ITEMS INCLUDING BUT NOT LIMITED TO PIPING, EQUIPMENT, ETC SHALL BE INSTALLED ABOVE THE FLOOD PLANE AS DETERMINED BY THE ARCHITECTURAL PLANS.
  - WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLANS INCLUDING ACCESS PANELS FOR VALVES AND EQUIPMENT, ETC.
- PLUMBING KEY NOTES**
- (P1) EXISTING ABOVE GROUND PROPANE TANKS SHALL BE ANCHORED TO CONCRETE PAD PER FEMA AND ARCHITECTURAL AND STRUCTURAL DETAILS.
  - (P2) PROVIDE PROPANE, SANITARY WASTE, HOT WATER, AND COLD WATER PIPING EXTENSIONS AS REQUIRED FOR RAISING OF HOUSE. CONTRACTOR TO FIELD VERIFY PIPING LOCATIONS AND SIZES PRIOR TO BIDDING AND INSTALLATION.
  - (P3) ALL NEW AND EXISTING DOMESTIC COLD WATER SUPPLY PIPING EXPOSED BELOW THE PROPERTY SHALL BE INSULATED WITH 1/2" FIBERGLASS INSULATION WITH CONTINUOUS PVC JACKETING. ALL HOT AND COLD WATER PIPING EXPOSED BELOW THE PROPERTY SHALL BE HEAT TRACED WITH SELF REGULATION HEAT TRACE CABLE MODEL H612 AS MANUFACTURED BY PENTAIR. CABLE SHALL BE 120V INPUT AND HAVE AN OUTPUT OF 6W PER FOOT. PROVIDE ONE HEAT TAPE FOR HOT WATER PIPING AND ONE HEAT TAPE FOR COLD WATER PIPING. PROVIDE ALL NECESSARY ACCESSORIES NEEDED FOR COMPLETE AND OPERATIONAL SYSTEM. PROVIDE ONE 20A/120V DEDICATED POWER CIRCUIT FOR EVERY 150 FEET OF HEAT TRACE CABLE.
  - (P4) PROVIDE NEW EXTERIOR WALL HYDRANT 3' ABOVE FINAL FINISHED GRADE. HOSE BIBB SHALL BE FREEZELESS, ANTISIPHON, WITH 3/4" THREADED OUTLET MODEL 17 AS MANUFACTURED BY WOODFORD OR APPROVED EQUAL. PROVIDE LOW POINT DRAIN ON PIPING DROP FROM HOUSE. SEE DETAIL 1/P5.0 FOR MORE DETAILS. CONNECT CW PIPING SERVING HOSE BIBB TO NEAREST ACTIVE MAIN.
  - (P5) PROVIDE NEW EXPOSED SHOWER HEAD MODEL SC-1220-AF AS MANUFACTURED BY SPEAKMAN. CONNECT CW AND HW PIPING SERVING SHOWER HEAD TO NEAREST ACTIVE MAINS. PROVIDE ISOLATION VALVE ON DROPS ABOVE FLOOD PLANE. PROVIDE LOW POINT DRAIN ON PIPING DROPS FROM HOUSE.



**2 NEW FOUNDATION PLAN**  
P-1.0 1/4" = 1'-0" 

PLUMBING FIXTURE CONNECTION SCHEDULE				
FIXTURE TYPE	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
HOSE BIB	-	-	3/4"	3/4"



① HOSE BIB CW SUPPLY DETAIL  
N.T.S.

PLUMBING PIPING LEGEND	
SYMBOL	DESCRIPTION
---	NEW CW BURRIED
---	NEW CW
---	EXISTING CW
---	NEW SAN BURRIED
---	NEW SAN
---	EXISTING SAN
---	NEW HW
---	EXISTING HW
---	NEW NG BURRIED
---	NEW NG
---	EXISTING NG
---	NEW V
---	EXISTING V
---	NEW COND
---	DETAIL LINE
---	90° ELBOW DOWN
---	90° ELBOW UP
---	TEE UP
---	TEE DOWN
---	DROP AND RUN
---	TEE OFF TOP OF PIPE
---	TEE OFF BOTTOM OF PIPE
---	CLEANOUT
---	HOSE BIBB
---	PLUG VALVE

PLUMBING SYMBOL LEGEND	
SYMBOL	DESCRIPTION
⊕	CONNECT NEW TO EXISTING
⊕	HOSE BIBB

PLUMBING ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
BTU	BRITISH THERMAL UNIT
CO	CLEANOUT
CW	COLD WATER
DN	DOWN
ET	EXPANSION TANK
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
NG	NATURAL GAS
TYP	TYPICAL
V	VENT
VTR	VENT THRU ROOF

- GENERAL PROCEDURES ALL TRADES**
- THESE SPECIFICATIONS ARE APPLICABLE TO ALL PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS UNLESS NOTED OTHERWISE.
  - DESCRIPTION
    - THIS PROJECT COMPRISES ALTERATIONS AND RENOVATIONS TO THE EXISTING BUILDING. THE EXISTING BUILDING IS CURRENTLY OCCUPIED AND THE PROJECT WILL PROCEED IN A MANNER WHICH WILL MINIMIZE ANY INCONVENIENCE TO THE BUILDING OCCUPANTS.
    - SCOPE OF WORK CONSISTS OF INSTALLATION OF MATERIALS TO BE FURNISHED UNDER THE CONTRACT DOCUMENTS AND WITHOUT LIMITING GENERALITY THEREOF CONSISTS OF FURNISHING LABOR, MATERIALS, EQUIPMENT, HOISTING, PLANT, TRANSPORTATION, RIGGING, STAGING, APPURTENANCES, AND SERVICES NECESSARY AND/OR INCIDENTAL TO PROPERLY COMPLETE ALL WORK AS SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN.
  - DEFINITIONS: THE FOLLOWING DEFINITIONS APPLY TO THIS CONTRACT
    - FURNISH: THE TERM "FURNISH" MEANS TO "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."
    - INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."
    - PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."
    - REMOVE: THE TERM REMOVE MEANS TO DISCONNECT/FROM ITS PRESENT POSITION, REMOVE FROM THE PREMISES AND TO DISPOSE OF IN A LEGAL MANNER."
    - SUBSTITUTIONS: "SUBSTITUTIONS" ARE REQUESTS FOR CHANGES IN PRODUCTS, MATERIALS AND METHODS OF CONSTRUCTION AS PROPOSED BY THE CONTRACTOR AFTER AWARD OF THE CONTRACT.
  - MATERIALS
    - PROVIDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE WORK OUTLINED ON THESE CONTRACT DOCUMENTS. THE CONTRACTOR IS TO NOTE THAT THESE DOCUMENTS ARE DIAGRAMMATIC ONLY AND THAT FINAL PLACEMENT OF EQUIPMENT OR DEVICES IN THE FIELD MAY NOT DIRECTLY CORRESPOND TO THAT WHICH IS SHOWN ON THE DRAWINGS. IF A CONFLICT IN POSITIONING OCCURS THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY TO ASCERTAIN WHAT THE INTENT WAS BY THE DESIGN PROFESSIONAL.
  - SURVEY AND MEASUREMENTS:
    - PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
    - DO NOT SCALE DRAWINGS. SCALE INDICATED ON DRAWINGS IS FOR ESTABLISHING REFERENCE POINTS ONLY. ACTUAL FIELD CONDITIONS SHALL GOVERN ALL DIMENSIONS.
    - PRIOR TO ORDERING ANY MATERIALS AND EQUIPMENT, THOROUGHLY REVIEW THE SITE CONDITIONS TO DETERMINE IF ADEQUATE CLEARANCES AND ACCESS IS ALLOWED TO INSTALL THE COMPONENTS. ORDER EQUIPMENT BROKEN DOWN AS NECESSARY TO ALLOW FOR PROPER RIGGING THROUGH THE PROJECT AREA. PROVIDE ALL NECESSARY ALTERATIONS TO THE STRUCTURE OF THE BUILDING AS NECESSARY TO FIT THE EQUIPMENT IN PLACE.
    - ARRANGE INSTALLATION TO PROVIDE ACCESS TO EQUIPMENT FOR EASY MAINTENANCE AND REPAIR.
  - CODES AND STANDARDS: ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STATE OF CONNECTICUT ACCEPTED VERSION OF THE FOLLOWING
    - INTERNATIONAL RESIDENTIAL CODE
    - INTERNATIONAL BUILDING CODE
    - INTERNATIONAL PLUMBING CODE
    - INTERNATIONAL MECHANICAL CODE
    - NATIONAL ELECTRIC CODE (NFPA 70)
    - THE LIFE SAFETY CODE (NFPA 101)
  - PERMITS AND FEES: THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL GOVERNMENT AND STATE SALES TAXES AND FEES WHERE APPLICABLE, AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR EXTENSIONS IN CONNECTION WITH THE WORK. FILE ALL NECESSARY DRAWINGS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AND STATE DEPARTMENTS HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK, AND DELIVER A COPY TO THE OWNER AND ENGINEER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.
  - SHOP DRAWINGS:
    - SUBMIT NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE OF 1/4"=1'-0". HIGHLIGHT, ENCIRCLE, OR OTHERWISE INDICATE DEVIATIONS FROM THE CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT IS NOT CONSIDERED SHOP DRAWINGS.
    - SHOP DRAWINGS INCLUDE EQUIPMENT SUBMITTALS, FABRICATION AND INSTALLATION DRAWINGS, SETTING DIAGRAMS, SCHEDULES, PATTERNS, TEMPLATES AND SIMILAR DRAWINGS. INCLUDE THE FOLLOWING INFORMATION:
      - DIMENSIONS.
      - IDENTIFICATION OF PRODUCTS AND MATERIALS INCLUDED.
      - COMPLIANCE WITH SPECIFIED STANDARDS AND PERFORMANCE DATA AS INDICATED.
      - NOTATION OF COORDINATION REQUIREMENTS.
      - NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT.
      - SUBMIT 3 BLACK-LINE PRINTS AND 2 ADDITIONAL PRINTS WHERE REQUIRED FOR MAINTENANCE MANUALS PLUS THE NUMBER OF PRINTS NEEDED BY THE ENGINEER FOR DISTRIBUTION. ONE PRINT WILL BE RETAINED; THE REMAINDER RETURNED. ONE OF THE PRINTS RETURNED SHALL BE MARKED-UP AND MAINTAINED AS A RECORD DOCUMENT.
      - DO NOT USE SHOP DRAWINGS WITHOUT AN APPROPRIATE FINAL STAMP INDICATING ACTION TAKEN IN CONNECTION WITH CONSTRUCTION.
      - DO NOT ORDER ANY MATERIALS OR EQUIPMENT PRIOR TO RECEIVING FINAL APPROVED SHOP DRAWINGS.
      - PROVIDE SUBMITTALS AS INDICATED IN SPECIFIC SPECIFICATION SECTIONS.
  - USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
  - THE CONTRACTOR SHALL COORDINATE ALL INTERRUPTIONS OF SERVICES AND LIMITATIONS OF ACCESS WITH THE OWNER NO LESS THAN 5 DAYS PRIOR TO THE INTERRUPTION.
  - OPERATION AND MAINTENANCE
    - UPON COMPLETION OF ALL WORK AND TESTS, THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. THE CONTRACTOR SHALL GIVE AT LEAST SEVEN (7) DAYS NOTICE TO THE OWNER AND THE ENGINEER IN ADVANCE OF THIS PERIOD.
    - THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A COMPLETE OPERATION AND MAINTENANCE MANUAL, BOUND IN BOOKLET FORM. ORGANIZE OPERATING AND MAINTENANCE DATA INTO SUITABLE SETS OF MANAGEABLE SIZE. BIND PROPERLY INDEXED DATA IN INDIVIDUAL HEAVY-DUTY 3-RING VINYL-COVERED BINDERS, WITH POCKET FOLDERS FOR FOLDED SHEET INFORMATION AND DESIGNATION PARTITIONS WITH IDENTIFICATION TABS. MARK APPROPRIATE IDENTIFICATION ON FRONT AND SPINE OF EACH BINDER.
  - OPERATION AND MAINTENANCE MANUAL SHALL INCLUDE THE FOLLOWING:
    - MANUFACTURER'S PRINTED OPERATING AND MAINTENANCE PROCEDURES.
    - MAINTENANCE PROCEDURES FOR ROUTINE PREVENTATIVE MAINTENANCE AND TROUBLESHOOTING.
    - COPIES OF WARRANTIES.
    - APPROVED SHOP DRAWINGS AND PRODUCT DATA.
    - BALANCE REPORTS.
    - INCLUDE IN THE MANUAL, A TABULATED EQUIPMENT SCHEDULE FOR ALL EQUIPMENT. SCHEDULE SHALL INCLUDE PERTINENT DATA SUCH AS: MAKE, MODEL NUMBER, SERIAL NUMBER, VOLTAGE, NORMAL OPERATING CURRENT, BELT SIZE, FILTER QUANTITIES AND SIZES, BEARING NUMBER, ETC. SCHEDULE SHALL INCLUDE MAINTENANCE TO BE DONE AND FREQUENCY.
    - MAINTENANCE AND INSTRUCTION MANUALS SHALL BE SUBMITTED TO THE OWNER AT THE SAME TIME AS THE SEVEN (7) DAY NOTICE IS GIVEN PRIOR TO THE INSTRUCTION PERIOD.
  - AS-BUILT DRAWINGS
    - PREPARE AS-BUILT DRAWINGS TO A SCALE OF 1/4"=1'-0" OR LARGER; DETAILING THE ACTUAL INSTALLATION OF MAJOR ELEMENTS, COMPONENTS, AND SYSTEMS OF MECHANICAL EQUIPMENT AND MATERIALS. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE AS-BUILT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE.
    - MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER, BUT WAS NOT SHOWN ON CONTRACT DRAWINGS OR SHOP DRAWINGS.
    - NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE.
    - ORGANIZE AS-BUILT DRAWINGS INTO MANAGEABLE SETS, BIND WITH DURABLE PAPER COVER SHEETS, AND PRINT SUITABLE TITLES, DATES AND OTHER IDENTIFICATION ON THE COVER OF EACH SET.
  - OBTAIN IN OWNER'S NAME WRITTEN EQUIPMENT AND MATERIAL WARRANTIES OFFERED

- IN MANUFACTURER'S PUBLISHED PRODUCT DATA WITHOUT EXCLUSION OR LIMITATION.
- GUARANTEE WORK OF THESE CONTRACT DOCUMENTS IN WRITING FOR NOT LESS THAN ONE (1) YEAR FROM DATE OF FINAL NOTICE OF ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS, EQUIPMENT, WORKMANSHIP AND INSTALLATION THAT DEVELOP WITHIN THIS PERIOD, PROMPT AND TO OWNER'S SATISFACTION AND CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE WITHIN CONTRACT PRICE.
  - SUBMIT TO THE OWNER AN OFFICIAL CERTIFICATE OF INSURANCE FOR THEIR RECORDS.
 

**MEANS AND METHODS ALL TRADES**

    - INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
    - DO NOT BURN WASTE MATERIALS. DO NOT BURY DEBRIS OR EXCESS MATERIALS ON THE OWNER'S PROPERTY. DO NOT DISCHARGE VOLATILE, HARMFUL OR DANGEROUS MATERIALS INTO DRAINAGE SYSTEMS. REMOVE AND DISPOSE OF ALL WASTE MATERIALS, PACKAGING MATERIAL, SKIDS ETC. FROM THE SITE AND DISPOSE OF IN A LAWFUL MANNER IN ACCORDANCE WITH MUNICIPAL, STATE AND FEDERAL REGULATIONS.
    - MATERIALS AND EQUIPMENT SHALL BE UL LISTED WHERE STANDARD HAS BEEN ESTABLISHED.
    - CAREFULLY INSPECT ALL BUILDING ELEMENTS PRIOR TO CUTTING OR DRILLING INTO WALL, FLOORS OR CEILINGS. PATCH AND PAINT SURFACES DISTURBED BY WORK UNDER THIS CONTRACT AS REQUIRED TO RESTORE THEM TO THEIR ORIGINAL CONDITION.
    - SCAFFOLDING, RIGGING, HOISTING: THE CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE BUILDING. THE CONTRACTOR SHALL FURNISH ALL NECESSARY SLEEVES, CAULKING AND FLASHING REQUIRED TO MAKE OPENINGS ABSOLUTELY WATERTIGHT.
    - EXCAVATION AND BACKFILLING: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE SIZES, DEPTHS, FILL AND BEDDING REQUIREMENTS AND ANY OTHER EXCAVATION WORK REQUIRED UNDER THESE SPECIFICATIONS.
    - WATERPROOFING: WHERE ANY WORK PIERCES WATERPROOFING, INCLUDING WATERPROOF CONCRETE, ROOFS, EXTERIOR WALL AND FLOORS IN WET AREAS, THE METHOD OF INSTALLATION SHALL BE REVIEWED BY THE ENGINEER BEFORE WORK IS DONE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY SLEEVES, CAULKING AND FLASHING REQUIRED TO MAKE OPENINGS ABSOLUTELY WATERTIGHT.
    - PROVIDE FIRESTOPPING AROUND ALL FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED PARTITIONS. PROVIDE ASBESTOS FREE FIRESTOPPING SYSTEM CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME AND GASES. SYSTEM SHALL BE UL LISTED AND COMPLY WITH ASTM E 814.
    - ACCESS DOORS SHALL BE PROVIDED IN CEILINGS, WALLS AND FLOORS AT ALL DAMPERS, VALVES, CONTROL DEVICES, AND OTHER APPARATUS AND EQUIPMENT REQUIRING PERIODIC SERVICE AND INSPECTION. COORDINATE TYPE AND LOCATION WITH ARCHITECTURAL PLANS.
    - SEISMIC RESTRAINTS SHALL BE INSTALLED AS REQUIRED PER BUILDING CODE AND FIRE SAFETY CODE. RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND SMACNA STANDARDS. SUBMIT SHOP DRAWINGS INCLUDING SEISMIC CALCULATIONS WITH PROFESSIONAL ENGINEER'S SEAL FOR REVIEW BY ENGINEER.
  - PLUMBING
    - PIPING:
      - DOMESTIC WATER PIPING SHALL BE COPPER TUBING TYPE L. SOLDER FILLER METALS SHALL BE 95-5 TIN-ANTIMONY SOLDER JOINTS.
      - WASTE AND VENT PIPING SHALL BE PVC, TYPE DWV PIPE AND FITTINGS WITH SOLVENT CEMENTED JOINTS.
      - WASTE AND VENT PIPING SHALL BE HUBLESS, SERVICE WEIGHT, CAST-IRON SOIL PIPE AND FITTINGS, WITH NEOPRENE GASKETS, BURIED PIPING SHALL BE HUB AND SPOUT FITTINGS.
      - NATURAL GAS PIPING SHALL BE SCHEDULE 40, CARBON STEEL PIPE, WITH THREADED JOINTS AND FITTINGS OR TYPE L COPPER TUBING.
    - INSULATION:
      - INSULATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE IECC EXCEPT THAT PIPE INSULATION SHALL NOT BE LESS THAN 1" THICK. ALL INSULATION MATERIALS, ADHESIVES, COATINGS, AND OTHER ACCESSORIES SHALL HAVE FLAME SPREAD RATINGS OF 25 OR LESS, AND SMOKE DEVELOPED RATINGS OF 50 OR LESS AS TESTED BY ASTM E 84 (NFPA 255) METHOD. ALL INSULATION MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA AND ASHRAE STANDARDS.
      - PIPE INSULATION SHALL BE FIBERGLASS WITH VAPOR BARRIER JACKET. PROVIDE INSULATION FOR THE FOLLOWING PIPING SYSTEMS:
        - DOMESTIC COLD WATER PIPING
        - DOMESTIC HOT WATER PIPING
      - ALL EXPOSED DOMESTIC WATER PIPE SHALL BE WRAPPED WITH A PVC VAPOR BARRIER JACKET AS MANUFACTURED BY ZESTON OR APPROVED EQUAL. PVC JACKETING SHALL BE FINISHED TO BE WATER TIGHT.
    - PIPING INSTALLATION:
      - INSTALL PIPING IN ACCORDANCE WITH ALL APPLICABLE CODES AND GOOD PRACTICES.
      - INSTALL UNIONS OR FLANGES IN PIPES ADJACENT TO EACH VALVE, CONTROL DEVICE AND AT FINAL CONNECTIONS EACH PIECE OF EQUIPMENT.
      - INSTALL DIELECTRIC UNIONS TO JOIN DISSIMILAR METALS.
      - INSTALL AND ANCHOR PIPING TO ENSURE PROPER EXPANSION AND CONTRACTION.
      - ANCHOR PIPING TO ENSURE PROPER DIRECTION OF EXPANSION AND CONTRACTION.
      - SUPPORT PIPING TO PREVENT VIBRATION OR SAGGING. PROVIDE HANGER SPACING ACCORDING TO DISTANCES LISTED IN APPLICABLE CODES AND REGULATIONS.
    - PLUMBING IDENTIFICATION
      - PLUMBING IDENTIFICATION WORK SHALL COMPLY WITH ANSI A13.1. NAMES, ABBREVIATIONS AND OTHER DESIGNATIONS USED IN MECHANICAL IDENTIFICATION WORK SHALL CORRESPOND WITH DESIGNATIONS SHOWN, SPECIFIED OR SCHEDULED.
      - VALVE TAGS SHALL BE 1-1/2" DIAMETER, 19-GA POLISHED BRASS WITH STAMP-ENGRAVED LETTERING, ATTACH VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
      - PROVIDE VALVE TAG ON EVERY VALVE, EXCLUDING DRAIN VALVES.
      - PIPE IDENTIFICATION, PLASTIC PIPE MARKERS, FACTORY FABRICATED, FLEXIBLE, SEMI-RIGID PLASTIC, PERFORMED TO FIT AROUND PIPE OR PIPE COVERING, MINIMUM INFORMATION INDICATING FLOW DIRECTION ARROW AND IDENTIFICATION OF FLUID BEING CONVEYED.
  - TESTING AND ADJUSTING
    - ALL WATER PIPING SHALL BE TESTED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. THE SYSTEM SHALL BE PROVED TIGHT UNDER WATER PRESSURE OF 100 PSIG. THE PRESSURE SHALL BE APPLIED GRADUALLY AND THEN HELD FOR A MINIMUM OF TWO HOURS.
    - ALL WASTE PIPING SHALL BE TESTED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. THE SYSTEM SHALL BE FILLED WITH WATER TO A HEAD OF NOT LESS THAN 10 FEET. THE WATER LEVEL AT THE TOP OF THE TEST HEAD OF WATER SHALL NOT DROP FOR AT LEAST 15 MINUTES.
    - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR ALL TESTING.



**THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OOR)**

**GENERAL RENOVATIONS for the RIZZUTO RESIDENCE APPLICATION No. 1819 90 Pratt Road, Clinton, CT 06413**

**CLS**  
Consulting Engineering Services, Inc.

1811 Middle Street  
Middletown, CT 06457  
Tel: (860) 632-1682  
Fax: (860) 632-1785  
CLS #2014064.00

date	description	no.

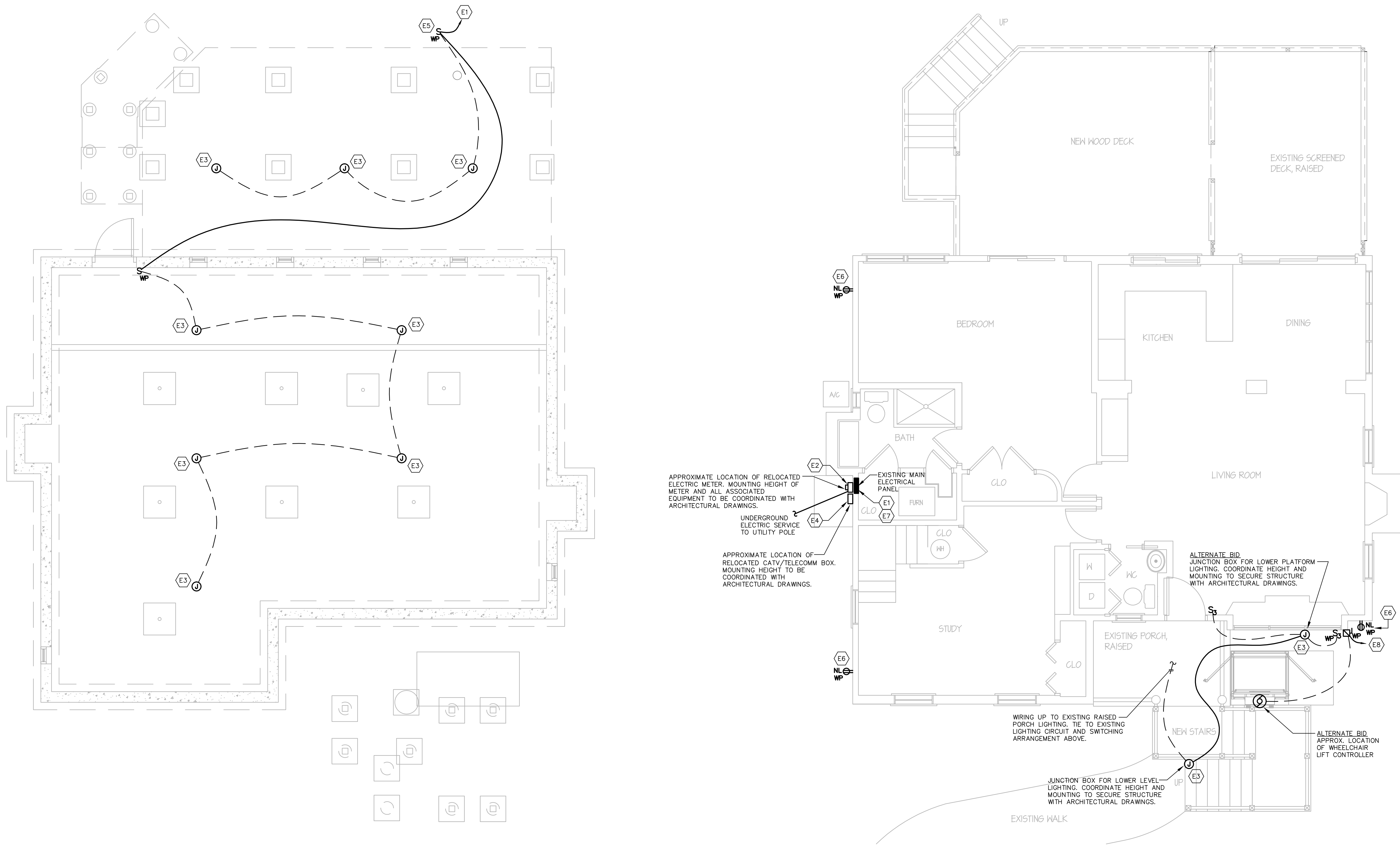
**PLUMBING SPECIFICATIONS**

**P-5.0**

date	OCTOBER 5, 2015
drawn	ANK
scale	NOT TO SCALE
checked	DTB
project no.	2014064.00
application no.	1819

THE STATE OF CONNECTICUT  
DEPARTMENT OF HOUSING (DOH)  
COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR)  
OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OOR)

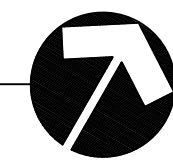
GENERAL RENOVATIONS for the RIZZUTO RESIDENCE  
APPLICATION No. 1819  
90 Pratt Road,  
Clinton, CT 06413



2 NEW FOUNDATION PLAN  
E-1.0 1/4" = 1'-0"



3 NEW FIRST FLOOR PLAN  
E-1.1 1/4" = 1'-0"



ELECTRICAL KEY NOTES	
E1	PROVIDE (1)120VAC/15A/1P COMBINATION AFCI/GFCI CIRCUIT BREAKER IN MAIN ELECTRICAL PANEL FOR UNDER DECK STORAGE LIGHTING CIRCUIT. C/B SHALL BE COMPATIBLE WITH EXISTING PANEL MANUFACTURER. PROVIDE 14-2 FEED BACK TO MAIN ELECTRICAL PANEL AND LABEL APPROPRIATELY ON DIRECTORY. REFER TO FLOORPLAN LAYOUT FOR CIRCUITRY INFORMATION.
E2	PROVIDE FEEDER EXTENSION OF EXISTING ELECTRIC SERVICE TO THE RESIDENCE AND RECONNECTION TO THE NEW LOCATION OF ELECTRIC METER. PROVIDE EXTENSION AND RECONNECTION FROM METER ENCLOSURE TO EXISTING MAIN ELECTRICAL PANEL LOCATED INSIDE THE RESIDENCE WITH FEEDERS TO MATCH EXISTING. PROVIDE ALL PARTS AND MATERIALS ASSOCIATED FOR A COMPLETE AND FUNCTIONAL EXTENSION AND RECONNECTION. COORDINATE WITH THE UTILITY COMPANY FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH THE EXTENSION AND RECONNECTION OF EXISTING ELECTRIC SERVICE.
E3	PROVIDE 14-2 WIRING AND JUNCTION BOX TO THIS APPROXIMATE LOCATION. WIRING AND JUNCTION BOX SHALL BE MADE SAFE AND PROTECTED FOR FUTURE USE AND INSTALLATION OF LIGHTING FIXTURE. OWNER SHALL SELECT LIGHTING FIXTURE BASED ON ALLOWANCE PROVIDED UNDER THIS PROJECT. REFER TO DWGS FOR WIRING INFORMATION.
E4	COORDINATE WITH CATV AND PHONE COMPANIES THE EXTENSION OF EXISTING CATV AND PHONE SERVICE TO THE RESIDENCE. CONNECT TO RELOCATED/EXISTING CATV AND PHONE DISTRIBUTION EQUIPMENT AND CABLING. COORDINATE WITH THE CATV AND PHONE COMPANIES ALL WORK AND PARTS ASSOCIATED WITH THE EXTENSION OF EXISTING SERVICE.
E5	PROVIDE WEATHER PROOF SINGLE POLE LIGHTING SWITCH AND MOUNT ON STRIKE SIDE OF HINGED PANEL INTERIOR STRUCTURE. APPROXIMATE LOCATION SHOWN. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR MOUNTING LOCATION AND HEIGHT.
E6	EXISTING OUTDOOR RECEPTACLES SHALL BE LOWERED FOR IMMEDIATE ACCESSIBILITY. COORDINATE THE LOWERING OF RECEPTACLES BY AN APPROXIMATE OF 4-3/8" AND THE MOUNTING TO A SECURE STRUCTURE. EXTENDED AND RELOCATED AS REQUIRED. EC SHALL PROVIDE CONDUIT, WIRING, WEATHERPROOF ENCLOSURES AND ALL ASSOCIATED MATERIALS FOR A COMPLETE, SAFE, AND FUNCTIONAL RECONNECTION/RELOCATION.
E7	PROVIDE (1)120V/20A/1P CIRCUIT BREAKER IN MAIN ELECTRICAL PANEL FOR SELF REGULATING HEAT TRACE TAPE/CABLE CIRCUIT. C/B SHALL BE COMPATIBLE WITH EXISTING PANEL MANUFACTURER. PROVIDE WIRING AND ALL ASSOCIATED MATERIAL FOR A COMPLETE AND FUNCTIONAL SYSTEM. CIRCUIT SHALL BE LABEL APPROPRIATELY IN MAIN ELECTRICAL PANEL. COORDINATE WIRING RUN AND LOCATION WITH PLUMBING CONTRACTOR.
E8	ALTERNATE BID: PROVIDE 2#12+1#12G IN 3/4" C BACK TO MAIN ELECTRICAL PANEL FOR WHEELCHAIR LIFT CONTROLLER. PROVIDE DEDICATED 20A/1P CIRCUIT BREAKER IN EXISTING MAIN ELECTRICAL PANEL. C/B TO BE COMPATIBLE WITH EXISTING PANEL. ADD AND LABEL CIRCUIT TO PANELBOARD DIRECTORY. PROVIDE AND WIRE THROUGH FUSED 20A DISCONNECT WITH AUXILIARY CONTACT ON MAIN POWER SUPPLY. PROVIDE 2#18 AWG CONDUCTORS BETWEEN CONTACT AND CONTROLLER. WHEELCHAIR LIFT TO BE INSTALLED BASED ON MANUFACTURER RECOMMENDATIONS. PROVIDE ALL ASSOCIATED MATERIALS, PARTS, AND LABOR FOR A COMPLETE AND FUNCTIONAL INSTALLATION. COORDINATE ADDITIONAL REQUIREMENTS WITH WHEELCHAIR LIFT MANUFACTURER.

GENERAL NOTES ALL TRADES	
1.	ELECTRICAL ITEMS INCLUDING BUT NOT LIMITED TO WIRING, EQUIPMENT, SWITCHES, OUTLETS, ETC SHALL BE INSTALLED ABOVE THE FLOOD PLANE AS DETERMINED BY THE ARCHITECTURAL PLANS.
2.	WORK SHALL BE COORDINATED WITH ARCHITECTURAL PLANS.
3.	CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS PRIOR TO PROVIDING ALL EQUIPMENT AND PIPING.
4.	CIRCUITS BRANCH WIRING SHALL BE #12 FOR 20A-1P CIRCUIT BREAKERS AND #14 FOR 15A CIRCUIT BREAKERS IN PANEL INDICATED UNLESS NOTED OTHERWISE.

**CES**  
Consulting Engineering Services, Inc.  
1811 Middle Street  
Middletown, CT 06457  
Tel: (860) 632-1682  
Fax: (860) 632-1768  
CES #2014064.00

date	description	no.

**ELECTRICAL FLOOR PLANS**

**E-1.0**

date	OCTOBER 5, 2015
drawn	VM
scale	AS SHOWN
checked	DTB
project no.	2014064.00
application no.	1819

ELECTRICAL SYMBOL LIST	
SYMBOL	DESCRIPTION
	RECESSED PANELBOARD
	ELECTRICAL METER
	BRANCH CIRCUIT WIRING, CONCEALED IN WALLS OR CEILINGS
	HOMERUN TO PANELBOARD, UNLESS INDICATED OTHERWISE SHALL BE CONNECTED TO A 1 POLE, 20 AMP CIRCUIT BREAKER
	BRANCH CIRCUIT WIRING, SWITCHED
	JUNCTION BOX
	SINGLE POLE SWITCH, WEATHERPROOF
	RECEPTACLE WITH GFCI PROTECTION, WEATHERPROOF
	DISCONNECT, FUSED
	ELECTRICAL MOTOR SYMBOL

ELECTRICAL ABBREVIATIONS

A/AMP	AMPERE	GFCI	GROUND FAULT INTERRUPTER	PNL	PANEL
AC	ALTERNATING CURRENT	JB	JUNCTION BOX	PVC	POLYVINYL CHLORIDE CONDUIT
ACU	AIR CONDITIONING UNIT	KVA	KILOVOLT AMPERE	RE	REMOVE EXISTING
AF	ABOVE FINISHED FLOOR	KW	KILOWATT	RGS	RIGID GALVANIZED STEEL CONDUIT
AFO	ABOVE FINISHED GRADE	MAX	MAXIMUM	RL	RELOCATE EXISTING
AWG	AMERICAN WIRE GAUGE	MCCB	MOLDED CASE CIRCUIT BREAKER	RM	ROOM
BSMT	BASEMENT	MN	MINIMUM	RR	REMOVE AND REPLACE ON NEW SURFACE
C	CONDUIT	MLO	MAIN LUGS ONLY	SPEC	SPECIFICATION
CATV	CABLE TELEVISION	NA	NOT APPLICABLE	SWBD	SWITCHBOARD
C/B	CIRCUIT BREAKER	NEC	NATIONAL ELECTRIC CODE	TELE	TELECOMMUNICATIONS/TELEPHONE
CKT	CIRCUIT	NIC	NOT IN CONTRACT	TV	TELEVISION
°	DEGREE	NL	NEW LOCATION OF EXISTING RELOCATED	T/TX	TRANSFORMER
DIA/Ø	DIAMETER	NR	NEW TO REPLACE EXISTING	TYP	TYPICAL
DN	DOWN	NTS	NOT TO SCALE	V	VOLTS
DWG	DRAWING	P	POLE	VA	VOLT AMPERE
ETR	EXISTING TO REMAIN	PE	PRIMARY ELECTRICAL SERVICE	VAC	VOLTS ALTERNATING CURRENT
ELEC	ELECTRICAL	PF	POWER FACTOR	W	WATT, WIRE
EWH	ELECTRIC WATER HEATER	PH/Ø	PHASE	WP	WEATHERPROOF

- THESE SPECIFICATIONS ARE APPLICABLE TO ALL PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS UNLESS NOTED OTHERWISE.
- DESCRIPTION
  - THIS PROJECT COMPRISES ALTERATIONS AND RENOVATIONS TO THE EXISTING BUILDING. THE EXISTING BUILDING IS CURRENTLY OCCUPIED AND THE PROJECT WILL PROCEED IN A MANNER WHICH WILL MINIMIZE ANY INCONVENIENCE TO THE BUILDING OCCUPANTS.
  - SCOPE OF WORK CONSISTS OF INSTALLATION OF MATERIALS TO BE FURNISHED UNDER THE CONTRACT DOCUMENTS AND WITHOUT LIMITING GENERALITY THEREOF CONSISTS OF FURNISHING OF LABOR, MATERIALS, EQUIPMENT, HOISTING, PLANT, TRANSPORTATION, RIGGING, STAGING, APURTENANCES, AND SERVICES NECESSARY AND/OR INCIDENTAL TO PROPERLY COMPLETE ALL WORK AS SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN.
- DEFINITIONS: THE FOLLOWING DEFINITIONS APPLY TO THIS CONTRACT
  - FURNISH: THE TERM "FURNISH" MEANS TO "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."
  - INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."
  - PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."
  - REMOVE: THE TERM REMOVE MEANS TO DISCONNECT/FROM ITS PRESENT POSITION, REMOVE FROM THE PREMISES AND TO DISPOSE OF IN A LEGAL MANNER.
  - SUBSTITUTIONS: "SUBSTITUTIONS" ARE REQUESTS FOR CHANGES IN PRODUCTS, MATERIALS AND METHODS OF CONSTRUCTION AS PROPOSED BY THE CONTRACTOR AFTER AWARD OF THE CONTRACT.
- DRAWINGS
  - PROVIDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE THE WORK OUTLINED ON THESE CONTRACT DOCUMENTS. THE CONTRACTOR IS TO NOTE THAT THESE DOCUMENTS ARE DIAGRAMMATIC ONLY AND THAT FINAL PLACEMENT OF EQUIPMENT OR DEVICES IN THE FIELD MAY NOT DIRECTLY CORRESPOND TO THAT WHICH IS SHOWN ON THE DRAWINGS. IF A CONFLICT IN POSITIONING OCCURS THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY TO ASCERTAIN WHAT THE INTENT WAS BY THE DESIGN PROFESSIONAL.
  - SURVEY AND MEASUREMENTS:
    - PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED.
    - DO NOT SCALE DRAWINGS. SCALE INDICATED ON DRAWINGS IS FOR ESTABLISHING REFERENCE POINTS ONLY. ACTUAL FIELD CONDITIONS SHALL GOVERN ALL DIMENSIONS.
    - PRIOR TO ORDERING ANY MATERIALS AND EQUIPMENT, THOROUGHLY REVIEW THE SITE CONDITIONS TO DETERMINE IF ADEQUATE CLEARANCES AND ACCESS IS ALLOWED TO INSTALL THE COMPONENTS. ORDER EQUIPMENT BROKEN DOWN AS NECESSARY TO ALLOW FOR PROPER RIGGING THROUGH THE PROJECT AREA. PROVIDE ALL NECESSARY ALTERATIONS TO THE STRUCTURE OF THE BUILDING AS NECESSARY TO RIG THE EQUIPMENT IN PLACE.
    - ARRANGE INSTALLATION TO PROVIDE ACCESS TO EQUIPMENT FOR EASY MAINTENANCE AND REPAIR.
  - CODES AND STANDARDS: ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STATE OF CONNECTICUT ACCEPTED VERSION OF THE FOLLOWING
    - INTERNATIONAL RESIDENTIAL CODE
    - INTERNATIONAL BUILDING CODE
    - INTERNATIONAL PLUMBING CODE
    - INTERNATIONAL MECHANICAL CODE
    - NATIONAL ELECTRIC CODE (NFPA 70)
    - THE LIFE SAFETY CODE (NFPA 101)
  - PERMITS AND FEES: THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL GOVERNMENT AND STATE SALES TAXES AND FEES WHERE APPLICABLE, AND OTHER COSTS, INCLUDING UTILITY CONNECTIONS OR EXTENSIONS IN CONNECTION WITH THE WORK, FILE ALL NECESSARY DRAWINGS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AND STATE DEPARTMENTS HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK, AND DELIVER A COPY TO THE OWNER AND ENGINEER BEFORE REQUEST ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.
  - SHOP DRAWINGS:
    - SUBMIT NEWLY PREPARED INFORMATION, DRAWN TO ACCURATE SCALE OF 1/4"=1'-0". HIGHLIGHT, ENCRIRCLE, OR OTHERWISE INDICATE DEVIATIONS FROM THE CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS OF SHOP DRAWINGS. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT IS NOT CONSIDERED SHOP DRAWINGS.
    - SHOP DRAWINGS INCLUDE EQUIPMENT SUBMITTALS, FABRICATION AND INSTALLATION DRAWINGS, SETTING DIAGRAMS, SCHEDULES, PATTERNS, TEMPLATES AND SIMILAR DRAWINGS. INCLUDE THE FOLLOWING INFORMATION:
      - DIMENSIONS.
      - IDENTIFICATION OF PRODUCTS AND MATERIALS INCLUDED.
      - COMPLIANCE WITH SPECIFIED STANDARDS AND PERFORMANCE DATA AS INDICATED.
      - NOTATION OF COORDINATION REQUIREMENTS.
      - NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT.
    - SUBMIT 3 BLACK-LINE PRINTS AND 2 ADDITIONAL PRINTS WHERE REQUIRED FOR MAINTENANCE MANUALS, PLUS THE NUMBER OF PRINTS NEEDED BY THE ENGINEER FOR DISTRIBUTION. ONE PRINT WILL BE RETAINED; THE REMAINDER RETURNED. ONE OF THE PRINTS RETURNED SHALL BE MARKED-UP AND MAINTAINED AS A "RECORD DOCUMENT"
    - DO NOT USE SHOP DRAWINGS WITHOUT AN APPROPRIATE FINAL STAMP INDICATING ACTION TAKEN IN CONNECTION WITH CONSTRUCTION.
    - DO NOT ORDER ANY MATERIALS OR EQUIPMENT PRIOR TO RECEIVING FINAL APPROVED SHOP DRAWINGS.
      - PROVIDE SUBMITTALS AS INDICATED IN SPECIFIC SPECIFICATION SECTIONS.
  - USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
  - THE CONTRACTOR SHALL COORDINATE ALL INTERRUPTIONS OF SERVICES AND LIMITATIONS OF ACCESS WITH THE OWNER NO LESS THAN 5 DAYS PRIOR TO THE INTERRUPTION.
  - OPERATION AND MAINTENANCE
    - UPON COMPLETION OF ALL WORK AND TESTS, THE CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. THE CONTRACTOR SHALL GIVE AT LEAST SEVEN (7) DAYS NOTICE TO THE OWNER AND THE ENGINEER IN ADVANCE OF THIS PERIOD.
    - THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A COMPLETE OPERATION AND MAINTENANCE MANUAL, BOUND IN BOOKLET FORM. ORGANIZE OPERATING AND MAINTENANCE DATA INTO SUITABLE SETS OF MANAGEABLE SIZE. BIND PROPERLY INDEXED DATA IN INDIVIDUAL HEAVY-DUTY 3-RING VINYL-COVERED BINDERS, WITH POCKET FOLDERS FOR FOLDED SHEET INFORMATION AND DESIGNATION PARTITIONS WITH IDENTIFICATION TABS. MARK APPROPRIATE IDENTIFICATION ON FRONT AND SPINE OF EACH BINDER.
    - OPERATION AND MAINTENANCE MANUAL SHALL INCLUDE THE FOLLOWING:
      - MANUFACTURER'S PRINTED OPERATING AND MAINTENANCE PROCEDURES.
      - MAINTENANCE PROCEDURES FOR ROUTINE PREVENTATIVE MAINTENANCE AND TROUBLESHOOTING.
      - COPIES OF WARRANTIES.
      - APPROVED SHOP DRAWINGS AND PRODUCT DATA.
      - BALANCE REPORTS.
    - INCLUDE IN THE MANUAL A TABULATED EQUIPMENT SCHEDULE FOR ALL EQUIPMENT. SCHEDULE SHALL INCLUDE PERTINENT DATA SUCH AS: MAKE, MODEL NUMBER, SERIAL NUMBER, VOLTAGE, NORMAL OPERATING CURRENT, BELT SIZE, FILTER QUANTITIES AND SIZES, BEARING NUMBER, ETC. SCHEDULE SHALL INCLUDE MAINTENANCE TO BE DONE AND FREQUENCY.
    - MAINTENANCE AND INSTRUCTION MANUALS SHALL BE SUBMITTED TO THE OWNER AT THE SAME TIME AS THE SEVEN (7) DAY NOTICE IS GIVEN PRIOR TO THE INSTRUCTION PERIOD.
  - AS-BUILT DRAWINGS
    - PREPARE AS-BUILT DRAWINGS TO A SCALE OF 1/4"=1'-0" OR LARGER, DETAILING THE ACTUAL INSTALLATION OF MAJOR ELEMENTS, COMPONENTS, AND SYSTEMS OF MECHANICAL EQUIPMENT AND MATERIALS. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE AS-BUILT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE.
    - MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER, BUT WAS NOT SHOWN ON CONTRACT DRAWINGS OR SHOP DRAWINGS.
    - NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE.
    - ORGANIZE AS-BUILT DRAWINGS INTO MANAGEABLE SETS, BIND WITH DURABLE PAPER COVER SHEETS, AND PRINT SUITABLE TITLES, DATES AND OTHER IDENTIFICATION ON THE COVER OF EACH SET.
  - OBTAIN IN OWNER'S NAME WRITTEN EQUIPMENT AND MATERIAL WARRANTIES OFFERED

- IN MANUFACTURER'S PUBLISHED PRODUCT DATA WITHOUT EXCLUSION OR LIMITATION.
- GUARANTEE WORK OF THESE CONTRACT DOCUMENTS IN WRITING FOR NOT LESS THAN ONE (1) YEAR FROM DATE OF FINAL NOTICE OF ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS, EQUIPMENT, WORKMANSHIP AND INSTALLATION THAT DEVELOP WITHIN THIS PERIOD, PROMPT AND TO OWNER'S SATISFACTION AND CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE WITHIN CONTRACT PRICE.
  - SUBMIT TO THE OWNER AN OFFICIAL CERTIFICATE OF INSURANCE FOR THEIR RECORDS.
    - MEANS AND METHODS ALL TRADES
  - INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
  - DO NOT BURN WASTE MATERIALS. DO NOT BURY DEBRIS OR EXCESS MATERIALS ON THE OWNER'S PROPERTY. DO NOT DISCHARGE VOLATILE, HARMFUL OR DANGEROUS MATERIALS INTO DRAINAGE SYSTEMS. REMOVE AND DISPOSE OF ALL WASTE MATERIALS, PACKAGING MATERIAL, SKIDS ETC. FROM THE SITE AND DISPOSE OF IN A LAWFUL MANNER IN ACCORDANCE WITH MUNICIPAL, STATE AND FEDERAL REGULATIONS.
  - MATERIALS AND EQUIPMENT SHALL BE UL LISTED WHERE STANDARD HAS BEEN ESTABLISHED.
  - CAREFULLY INSPECT ALL BUILDING ELEMENTS PRIOR TO CUTTING OR DRILLING INTO WALL, FLOORS OR CEILINGS. PATCH AND PAINT SURFACES DISTURBED BY WORK UNDER THIS CONTRACT AS REQUIRED TO RESTORE THEM TO THEIR ORIGINAL CONDITION.
  - SCAFFOLDING, RIGGING, HOISTING: THE CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR ERECTION AND DELIVERY TO THE PREMISES ANY EQUIPMENT AND APPARATUS FURNISHED UNDER THIS DIVISION. REMOVE SAME FROM PREMISES WHEN NO LONGER REQUIRED.
  - EXCAVATION AND BACKFILLING: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE SIZES, DEPTHS, FILL AND BEDDING REQUIREMENTS AND ANY OTHER EXCAVATION WORK REQUIRED UNDER THESE SPECIFICATIONS
  - WATERPROOFING: WHERE ANY WORK PIERCES WATERPROOFING, INCLUDING WATERPROOF CONCRETE ROOFS, EXTERIOR WALL AND FLOORS IN WET AREAS, THE METHOD OF INSTALLATION SHALL BE REVIEWED BY THE ENGINEER BEFORE WORK IS DONE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY SLEEVES, CAULKING AND FLASHING REQUIRED TO MAKE OPENINGS ABSOLUTELY WATERIGHT.
  - PROVIDE FIRESTOPPING AROUND ALL FIRE PROTECTION, PLUMBING, MECHANICAL AND ELECTRICAL PENETRATIONS THROUGH FIRE RATED PARTITIONS. PROVIDE ASBESTOS FREE FIRESTOPPING SYSTEM CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME AND GASES. SYSTEM SHALL BE UL LISTED AND COMPLY WITH ASTM E 814.
  - ACCESS DOORS SHALL BE PROVIDED IN CEILINGS, WALLS AND FLOORS AT ALL DAMPERS, VALVES, CONTROL DEVICES, AND OTHER APPARATUS AND EQUIPMENT REQUIRING PERIODIC SERVICE AND INSPECTION. COORDINATE TYPE AND LOCATION WITH ARCHITECTURAL PLANS.
  - SEISMIC RESTRAINTS SHALL BE INSTALLED AS REQUIRED PER BUILDING CODE AND FIRE SAFETY CODE. RESTRAINTS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND SMACNA STANDARDS. SUBMIT SHOP DRAWINGS INCLUDING SEISMIC CALCULATIONS WITH PROFESSIONAL ENGINEER'S SEAL FOR REVIEW BY ENGINEER.

ELECTRICAL SPECIFICATIONS

- CONTACT THE POWER COMPANY FOR NECESSARY COORDINATION OF SERVICE REQUIREMENTS AND PAY FOR ALL RELATED CHARGES FOR THE PROJECT. ALL EQUIPMENT SHALL MEET THE POWER COMPANIES REQUIREMENTS AND SHALL BE SUBMITTED TO THE POWER COMPANY PRIOR TO ORDERING OR INSTALLATION.
- CONTACT THE TELEPHONE COMPANY FOR NECESSARY COORDINATION OF SERVICE REQUIREMENTS AND PAY FOR ALL RELATED CHARGES FOR THE SERVICE INSTALLATION. PROVIDE ALL BOXES, TERMINATIONS, CONDUITS AND WIRING PER DRAWINGS.
- CONTACT THE CABLE TELEVISION COMPANY FOR NECESSARY COORDINATION OF SERVICE REQUIREMENTS AND PAY FOR ALL RELATED CHARGES FOR THE SERVICE INSTALLATION. PROVIDE ALL BOXES, TERMINATION, CONDUITS AND WIRING PER DRAWINGS.
- SERVICE-DISCONNECTING MEANS SHALL BE OF THE TYPE AS INDICATED WITH EXTERNAL HANDLE FOR MANUAL OPERATION. WHEN SERVICE DISCONNECTING MEANS IS A PART OF AN ASSEMBLY, THE ASSEMBLY SHALL BE LISTED AS SUITABLE FOR SERVICE ENTRANCE EQUIPMENT. ENCLOSURES SHALL BE SHEET METAL WITH HINGED COVER FOR SURFACE MOUNTING UNLESS OTHERWISE INDICATED.
- PANELBOARD/LOAD CENTER:
  - PROVIDE CIRCUIT BREAKER TYPE PANELBOARD/LOAD CENTER WITH BUS RATING AS INDICATED ON DRAWINGS.
  - MINIMUM INTEGRATED SHORT CIRCUIT RATING: 10,000A RMS SYMMETRICAL.
  - MOLDED CASE CIRCUIT BREAKER: NEMA AB, PLUG ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLES PER POLES, LISTED AS TYPE SWD FOR LIGHTING CIRCUITS, CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKER AS INDICATED ON DRAWINGS, ARC-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKERS AS INDICATED ON DRAWINGS.
  - ENCLOSURE: GENERAL PURPOSE.
  - BOX: FLUSH TYPE WITH DOOR AND PULL RING LATCH, FINISH IN MANUFACTURER STANDARD GRAY ENAMEL.
- MOUNT PANELBOARDS, CIRCUIT BREAKERS, AND DISCONNECTING SWITCHES SO HEIGHT OF OPERATING HANDLE AT ITS HIGHEST POSITION IS MAXIMUM 78 INCHES ABOVE FLOOR.
- ALL BACKBOARDS SHALL UTILIZE FIRE RETARDANT 3/4 INCH PLYWOOD, SIZED AS INDICATED ON THE DRAWINGS.
- GROUNDING SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 70.
  - GROUND EXPOSED, NON-CURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, GROUNDING CONDUCTOR OF NONMETALLIC SHEATHED CABLES, AND NEUTRAL CONDUCTOR OF WIRING SYSTEMS.
  - MAKE GROUND CONNECTION AT MAIN SERVICE EQUIPMENT, AND EXTEND GROUNDING CONDUCTOR TO POINT OF ENTRANCE OF METALLIC WATER SERVICE. MAKE CONNECTION TO WATER PIPE BY SUITABLE GROUND CLAMP WITH METAL JUMPER OR LUG CONNECTION TO PLUGGED TEE. IF FLANGED PIPES ARE ENCOUNTERED, MAKE CONNECTION WITH WELDED TO STREET SIDE OF FLANGED CONNECTION. SUPPLEMENT METALLIC WATER SERVICE GROUNDING SYSTEM WITH ADDITIONAL MADE ELECTRODE IN COMPLIANCE WITH NFPA 70. MAKE GROUND CONNECTION TO DRIVEN GROUND RODS ON EXTERIOR OF BUILDING. GROUND RODS SHALL BE OF COPPER-CLAD STEEL CONFORMING TO UL 487 NOT LESS THAN 19.1 MM (3/4 INCH) IN DIAMETER BY 2.4 METER (8 FEET) IN LENGTH OF THE SECTIONAL TYPE DRIVEN FULL LENGTH INTO THE EARTH WHERE GROUND FAULT PROTECTION IS EMPLOYED. ENSURE THAT CONNECTION OF GROUND AND NEUTRAL DOES NOT INTERFERE WITH CORRECT OPERATION OF FAULT PROTECTION.
- WIRING SHALL BE COMPLETED IN ACCORDANCE WITH NFPA 70.
  - CONDUCTORS NO. 8 AWG AND LARGER DIAMETER SHALL BE STRANDED ANNEALED COPPER. CONDUCTORS NO. 10 AWG AND SMALLER DIAMETER SHALL BE SOLID ANNEALED COPPER. CONDUCTOR SIZES AND AMPACITIES SHOWN ARE BASED ON COPPER, UNLESS INDICATED OTHERWISE. UNLESS SPECIFIED OR INDICATED OTHERWISE OR REQUIRED BY NFPA 70. UNLESS OTHERWISE INDICATED WIRING METHODS SHALL BE:
    - SERVICE ENTRANCE WIRING AND WIRING TO DISTRIBUTION PANELS. WIRES SHALL BE IN PVC CONDUIT AND SHALL BE 600-VOLT, TYPE THWN/THHN ANNEALED COPPER.
    - BRANCH CIRCUITING INSIDE THE BUILDING IN DRY AREAS SHALL BE 600 VOLT, TYPE NM-B.
    - BRANCH CIRCUITING OUTSIDE THE BUILDING AND IN WET/DAMP AREAS SHALL BE 600 VOLT, TYPE UF-B.
    - WIRES SUBJECT TO DAMAGE SHALL BE IN PVC CONDUIT.
  - MAKE ALL SPLICES IN ACCESSIBLE LOCATIONS. MAKE SPLICES IN CONDUCTORS NO. 10 AWG AND SMALLER DIAMETER WITH INSULATED, PRESSURE-TYPE CONNECTOR. MAKE SPLICES IN CONDUCTORS NO. 8 AWG AND LARGER DIAMETER WITH SOLDERLESS CONNECTOR, AND COVER WITH INSULATION MATERIAL EQUIVALENT TO CONDUCTOR INSULATION.
  - PHASE CONDUCTORS SHALL BE IDENTIFIED BY COLOR CODING. THE COLOR OF THE INSULATION ON PHASES A AND B RESPECTIVELY (FOR SINGLE PHASE) OF DIFFERENT VOLTAGE SYSTEMS SHALL BE AS FOLLOWS: 120/240 VOLT, SINGLE/PHASE: BLACK AND RED.
- BOXES:
  - ALL OUTLETS, SWITCH AND JUNCTION BOXES SHALL BE NONMETALLIC BOXES.
  - BOXES SHALL BE SIZED IN ACCORDANCE WITH NFPA 70.
  - EXTERIOR BOXES SHALL BE GASKETED AND WATERIGHT.
- OUTLETS AND SWITCHES:
  - ALL OUTLETS AND SWITCHES SHALL BE WHITE.
  - MOUNT LIGHTING SWITCHES 48 INCHES ABOVE FINISHED FLOOR, RECEPTACLES 18 INCHES ABOVE FINISHED FLOOR, AND OTHER DEVICES AS INDICATED. MEASURE MOUNTING HEIGHTS OF WIRING DEVICES AND OUTLETS TO TOP OF DEVICE OR OUTLET.
  - SINGLE AND DUPLEX RECEPTACLES SHALL BE RATED 15 AMPERES, 125 VOLTS, TWO-POLE, THREE-WIRE, GROUNDING TYPE WITH POLARIZED PARALLEL SLOTS. RECEPTACLE SHALL BE SIDE OR BACK WIRED WITH TWO SCREENS PER TERMINAL. THE THIRD GROUNDING POLE SHALL BE CONNECTED TO THE METAL MOUNTING YOKE.
    - SWITCHED RECEPTACLES SHALL BE THE SAME AS OTHER RECEPTACLES SPECIFIED EXCEPT THAT THE UNGROUNDED POLE OF EACH SUITABLE RECEPTACLE SHALL BE PROVIDED WITH A SEPARATE TERMINAL. ONLY THE TOP RECEPTACLE OF A DUPLEX RECEPTACLE SHALL BE WIRED FOR SWITCHING APPLICATION.
  - RECEPTACLES WITH GROUND FAULT CIRCUIT INTERRUPTERS SHALL HAVE THE CURRENT RATING AS INDICATED, AND SHALL BE UL CLASS A TYPE UNLESS OTHERWISE SHOWN. GROUND FAULT CIRCUIT PROTECTION SHALL BE PROVIDED AS REQUIRED BY NFPA 70 AND AS INDICATED ON THE DRAWINGS.
  - WEATHERPROOF RECEPTACLES SHOWN SHALL BE MOUNTED IN A BOX WITH A

- GASKETED, WEATHERPROOF, WATERPROOF COVER PLATE AND GASKETED CAP OVER EACH RECEPTACLE OPENING.
- WALL SWITCHES SHALL BE OF THE TOTALLY ENCLOSED TUMBLER TYPE. WIRING TERMINALS SHALL BE OF THE SCREW TYPE OR OF SOLDERLESS PRESSURE TYPE HAVING SUITABLE CONDUCTOR-RELEASE ARRANGEMENT. SWITCHES SHALL BE RATED 15 AMPERE 120/277-VOLT FOR USE ON ALTERNATING CURRENT ONLY.
  - DIMMING SWITCHES SHALL BE SLIDE TYPE, SOLID-STATE, FLUSH MOUNTED, AND SIZED FOR THE LOADS.
  - DEVICE PLATES SHALL BE ONE-PIECE TYPE AND BE PROVIDED FOR ALL RECEPTACLES, OUTLETS, SWITCHES AND FITTINGS. PLATES ON UNFINISHED WALLS AND ON FITTINGS SHALL BE OF IMPACT RESISTANT PLASTIC HAVING ROUNDED OR BEVELED EDGES. PLATES ON FINISHED WALLS SHALL BE RESIST-RESISTANT PLASTIC. PLATES SHALL BE INSTALLED WITH ALL FOUR EDGES IN CONTINUOUS CONTACT WITH FINISHED WALL SURFACES WITHOUT THE USE OF MATS OR SIMILAR DEVICES. PLATES SHALL BE INSTALLED WITH AN ALIGNMENT TOLERANCE OF 1/16 INCH. THE USE OF SECTIONAL-TYPE DEVICE PLATES WILL NOT BE PERMITTED. PLATES INSTALLED IN WET LOCATIONS SHALL BE GASKETED AND PROVIDED WITH A HINGED, GASKETED COVER, UNLESS OTHERWISE SPECIFIED.
- PROVIDE ALL NECESSARY JUNCTION BOXES, PULL BOXES, PULL WIRES, COVER PLATES AND OTHER MISCELLANEOUS EQUIPMENT WHICH IS NOT SHOWN ON THE CONTRACT DOCUMENTS BUT NECESSARY TO COMPLETE THE WORK.
  - PROVIDE ALL NECESSARY WIRE, CONDUIT AND EQUIPMENT TO SUPPLY POWER TO THE HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT, PLUMBING EQUIPMENT AND FIRE PROTECTION EQUIPMENT. CONTROL WIRING AND CONDUIT SHALL BE PROVIDED UNDER DIVISION 15.
  - COORDINATE ALL WORK WITH OTHER TRADES AND ARRANGE INSTALLATION TO AVOID CLASHES BETWEEN EQUIPMENT, WORK OF OTHER TRADES AND BUILDING STRUCTURE.



THE STATE OF CONNECTICUT DEPARTMENT OF HOUSING (DOH) COMMUNITY DEVELOPMENT BLOCK GRANT - DISASTER RECOVERY (CDBG-DR) OWNER OCCUPIED REHABILITATION and REBUILDING PROGRAM (OOR)

GENERAL RENOVATIONS for the RIZZUTO RESIDENCE APPLICATION No. 1819 90 Pratt Road, Clinton, CT 06413



date	description	no.
	revisions	

ELECTRICAL SYMBOLS, ABBREVIATIONS, AND SPECIFICATIONS

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drawn	VM
scale	N.T.S.
checked	DTB
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