SUPER STORM SANDY

Response and Recovery

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

GOVERNOR OF CONNECTICUT:
NED LAMONT

COMMISSIONER OF HOUSING:
SEILA MOSQUERA-BRUNO

APPLICATION NO. 1588
MADACSI RESIDENCE
53 ROSELEAH DRIVE
MYSTIC, CONNECTICUT 06355

15TH OF MARCH 2019

"THE DESIGN AND METHOD OF CONSTRUCTION HEREBY DEPICTED ARE CERTIFIED TO BE IN ACCORDANCE WITH ACCEPTED STANDARDS OF PRACTICE TO MINIMIZE FLOODING AND FLOOD DAMAGE."

"THE DRAWINGS INCLUDED IN THIS PACKAGE ARE FOR BIDDING PURPOSES ONLY."

ARCHITECT:

Amaya Architects
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M.E.P. ENGINEER:

LOUREIRO ENGINEERING ASSOCIATES
100 NORTHWEST DRIVE
PLAINVILLE, CONNECTICUT

STRUCTURAL ENGINEER:

THE QUILL GROUP
525 JOHN STREET
BRIDGEPORT, CONNECTICUT

CIVIL ENGINEER:

LOUREIRO ENGINEERING ASSOCIATES
100 NORTHWEST DRIVE
PLAINVILLE, CONNECTICUT

GENERAL NOTES

1. SCOPE OF WORK INCLUDES: REMOVAL OF EXISTING HOUSE AND THE CONSTRUCTION OF A NEW SINGLE FAMILY HOME - LOCATED IN FLOOD ZONE - VE 14.

2. THE WORK DESCRIBED IN THESE DOCUMENTS IS INTENDED TO THE MEET HIGHEST QUALITY STANDARDS IN BOTH MATERIAL AND WORKMANSHIP. ANY SUBSTANDARD WORK WILL BE REJECTED.

3. ALL WORK SHALL CONFORM TO THE MUNICIPALITY'S APPLICABLE BUILDING CODE, FIRE DEPT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND THE BEST TRADE PRACTICES.

4. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE BUILDING DEPT, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES AS REQUIRED BY GOVERNING MUNICIPAL AGENCIES.

5. THE CONTRACTOR SHALL VERIFY ALL DRAWING DIMENSIONS AND FIELD CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING WORK.

6. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.

7. THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.

8. THE CONTRACTOR SHALL LAYOUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR ALL OTHER TRADES (PLUMBING, ELECTRICAL, ETC.) IF APPLICABLE

9. PLUMBING AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGNING IF APPLICABLE.

10. MANUFACTURED ARTICLES ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS IN ALL CASES, CONTRACTOR SHALL NOTIFY DESIGNER OF ANY CONDITIONS THAT IS IN CONFLICT WITH MANUFACTURER'S SPECIFICATIONS OR INSTRUCTIONS THAT MIGHT VOID A MANUFACTURER'S WARRANTY.

11. THE CONTRACTOR SHALL ASSEMBLE IN A BINDER AND PASS ALONG TO THE OWNER ALL EQUIPMENT AND MATERIAL WARRANTIES THAT MAY EXTEND BEYOND THE BASE GUARANTEE PERIOD, AS WELL AS INSTALLATION AND MAINTENANCE INSTRUCTIONS IF APPLICABLE.

12. NO SUBSTITUTIONS FOR MATERIALS SPECIFIED HEREIN SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY ARCHITECT.

13. ARCHITECT AND ASSOCIATED CONSULTANTS DISCLAIMS ANY ACTUAL OR CONSEQUENTIAL DAMAGES ARISING FROM THIRD PARTY RELATIONSHIPS. THESE DRAWINGS DO NOT PROVIDE ALL OR ANY SPECIFIC DETAIL IN AREAS INCLUDING BUT NOT LIMITED TO NAILING, GLUING, CAULKING, FLASHING, PAINTING AND WATERPROOFING, OR CRAFTSMANSHIP. G.C. IS RESPONSIBLE TO PROVIDE PROPER SUPERVISED WORKMANSHIP.

14. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR "REINSTATING" THE SITE TO ORIGINAL CONDITIONS.

15. THE GENERAL CONTRACTOR AND ALL TRADE CONTRACTORS ACKNOWLEDGE THAT A.I.A. DOCUMENT 701 INSTRUCTION TO BIDDERS IS AN INTEGRAL PART OF THESE DOCUMENTS.

16. PROVIDE GALVANIC ISOLATION BETWEEN DISSIMILAR MATERIALS

DEMOLITION NOTES

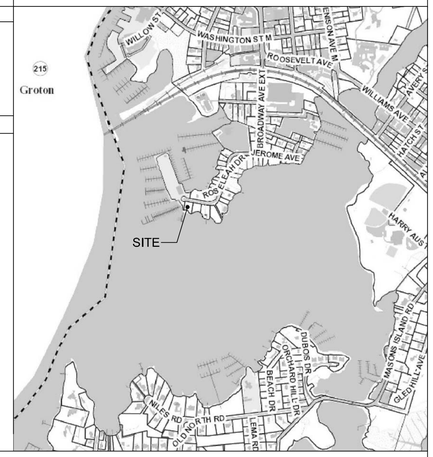
1. G.C. SHALL COORDINATE ALL DEMOLITION AND DEBRIS REMOVAL. THE ENTIRE HOUSE SHALL BE DEMOLITIONED AND REMOVED FROM SITE. REFER TO DEMO PLAN.

ABBREVIATIONS

AC AIR CONDITIONING	L LENGTH
ACU AIR CONDITIONING UNIT	LAM LAMINATE
AFF ABOVE FINISHED FLOOR	LAV LAVATORY
AHU AIR HANDLING UNIT	LBL LABEL
ALUM ALUMINUM	LBS POUNDS
ANOD ANODIZED	LH LEFT HAND
AT ACOUSTICAL TILE	LIN FT LINEAR FEET
BD BOARD	LT LIGHT
BLDG BUILDING	LTG LIGHTING
BO BY OTHERS	MAS MASONRY
CAB CABINET	MAX MAXIMUM
CD CEILING DIFFUSER	MECH MECHANICAL
CFM CUBIC FEET PER MINUTE	MFR MANUFACTURE(R)
< CENTER LINE	MIN MINIMUM
CLG CEILING	MISC MISCELLANEOUS
CLL CONTRACT LIMIT LINE	MM MILLIMETER
CMU CONCRETE MASONRY UNIT	MO MASONRY OPENING
COL COLUMN	MTD MOUNTED
CONC CONCRETE	MT'L METAL
CONST CONSTRUCTION	MULL MULLION
CONT CONTINUOUS	MW MILLWORK
CPT CARPET(ED)	NA NOT APPLICABLE
CS COUNTER SINK	NIC NOT IN CONTRACT
CT CERAMIC TILE	NO NUMBER
CTR COUNTER	NOM NOMINAL
CU FT CUBIC FEET	NTS NOT TO SCALE
CU IN CUBIC INCHES	OC ON CENTER
CW COLD WATER (CITY)	OD OUTSIDE DIAMETER
D DEPTH	OPN'G OPENING
DEMO DEMOLITION	OPP OPPOSITE
DET DETAIL	PART PARTITION
DF DRINKING FOUNTAIN	PL PLATE
DHW DOMESTIC HOT WATER	PL LAM PLASTIC LAMINATE
DIAG DIAGONAL	PLB'G PLUMBING
DIAM DIAMETER	PLYWD PLYWOOD
DIM DIMENSION	PNL PANEL
DN DOWN	PNT PAINT
DR DOOR	PT POINT
DS DOOR STOP	QT QUARRY TILE
DW DISH WASHER	R RISE(R)
DWG DRAWING	RA RETURN AIR
DWR DRAWER	RAD RADIUS
EA EACH	RD ROOF DRAIN
EF EXHAUST FAN	REF REFERENCE
EH ELECTRIC HEATER	REINF REINFORCE
EL /ELEV. ELEVATION	REM REMOVE
ELEC ELECTRIC	REQ'D REQUIRED
EMER EMERGENCY	REV REVISION
ENG ENGINEER	RH RIGHT HAND
EP ELECTRIC PANEL	RM ROOM
EQ EQUAL	RO ROUGH OPENING
EQUIP EQUIPMENT	RPM REVOLUTIONS PER MINUTE
EXIST'G EXISTING	SA SUPPLY AIR
EXP EXPANSION	SC SOLID CORE
EXT EXTERIOR	SHT SHEET
FACT FIN FACTORY FINISH	SIM SIMILAR
FBO FURNISHED BY OTHERS	SP SPEAKER
FE FIRE EXTINGUISHER	SPEC(S) SPECIFICATION(S)
FEC FIRE EXTINGUISHER CABINET	SQ SQUARE
FFE FINISH FLOOR ELEVATION	SQ FT SQUARE FOOT (FEET)
FIN FINISH(ED)	SQ IN SQUARE INCH
FL FLUORESCENT	SS STAINLESS STEEL
FOF FACE OF FINISH	ST STREET
FP FIRE PROOFING	ST'L STEEL
FPSC FIRE PROOF SOLID CORE	STD STANDARD
FR FIRE RESISTANT	SUSP SUSPENDED
FS FULL SCALE	SYM SYMETRY(ICAL)
FT FEET	SYS SYSTEM
FTR FINNED TUBE RADIATION	T & G TONGUE & GROOVE
GA GAUGE	TEL TELEPHONE
GC GENERAL CONTRACTOR	TEMP TEMPERATURE
GL GLASS	THERM THERMOSTAT
GWB GYPSUM WALLBOARD	THK THICKNESS
HC HOLLOW CORE	THRU THROUGH
HD HEAVY DUTY	TOS TOP OF SLAB
HDW HARDWARE	TR TREAD
HDWD HARDWOOD	TST TOP OF STEEL
HM HOLLOW METAL	TV TELEVISION
HOR HORIZONTAL	TYP TYPICAL
HR HOUR	UON UNLESS OTHERWISE NOTED
HT HEIGHT	V VOLTS
HTG HEATING	VAC VACUUM
HVAC HEATING, VENT. AIR COND.	VCT VINYL COMPOSITE TILE
HWH HOT WATER HEATER	VERT VERTICAL
ID INSIDE DIAMETER	VIF VERIFY IN FIELD
IN INCH	W WIDTH
INCL INCLUDE(ING)	W/ WITH
INFO INFORMATION	W/O WITHOUT
INSUL INSULATION	WB WOOD BASE
INTR INTERIOR	WC WATER CLOSET
INV INVERT	WD WOOD
IRC INTERNATIONAL RESIDENTIAL CODE	WP WATERPROOF
J-BOX JUNCTION BOX	WPT WORKING POINT
JT JOINT	WR WATER RESISTANT
KO KNOCK OUT	WT WEIGHT
KPL KICKPLATE	YD YARD

DRAWING INDEX

LOCATION MAP



BUILDING DESIGN DATA

GROUP R-3 FOR SINGLE FAMILY (2) STORY DWELLING
BUILDING CATEGORY: II
CONSTRUCTION TYPE: V
PROPOSED BUILDING HEIGHT (MEAN HT.) = 29.08' +/- (30' MAX.)
CAM - ROOF RIDGE HEIGHT ABOVE BFE (PER ZR - 7.3.5) = 23.83' +/- (24' MAX.)
WIND SPEED - 140 ULTIMATE DESIGN WIND SPEED (PER CT 2018 IRC CODE - APPENIX V)
WIND IMPORTANCE FACTOR - (Iw)=1.40 - PER TABLE R301.2(3)
WIND EXPOSURE - "C" (HURRICANCE PRONE REGION; 600 FT OVER WATER - MYSTIC RIVER)
WIND-BORNE DEBRIS REGION - (SITE LOCATED SOUTH OF I-95 CORRIDOR) - PER CT 2018 IRC APPENDIX V
GROUND SNOW LOAD= 30 PSF DRIFT SNOW LOAD= 50 PSF @ 6.5' WIDE
LIVING AREA LOADING = 40 PSF
SLEEPING AREA LOADING = 40 PSF
ATTIC AREA LOADING = 20 PSF

FLOOD ZONE - VE 14:
REQUIRED: DFE = 14.00' x 1.25 (500-YEAR FLOOD ELEV. ADJUSTMENT) = 17.5' + 1'-0" (FREEBOARD) = 18.5' TOTAL
PROPOSED: DFE = 18.5' (TOP OF FOUNDATION / PIERS)

DESIGNED FOR 500-YEAR FLOOD BASED ON SHPO & NFIP REGULATORY REQUIREMENTS:
FLOOD PLAIN MANAGEMENT REGULATIONS BY LOCAL JURISDICTION AND PER
LATEST FIRM FLOOD MAPS & CONSENSUS STANDARDS

APPLICABLE CODES

APPLICABLE CODES:

1. 2015 INTERNATIONAL BUILDING CODE AND CT 2018 AMENDMENTS.
2. ASCE 07-10 MIN. DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES
3. FEMA - 257 - MITIGATION FLOOD & EROSION DAMAGE TO RESIDENTIAL BUILDINGS IN COASTAL AREAS.
4. FEMA - P-55 - COASTAL CONSTRUCTION MANUAL (4TH ED. - 2011)

APPLICABLE SECTIONS: 2015 INTERNATIONAL BUILDING CODE AND CT 2018 AMENDMENTS.

PER SECTION R301 DESIGN CRITERIA -

R301.1 APPLICATION / MEETS REQUIREMENTS
R301.2 - CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA / MEETS REQUIREMENTS
R301.2.1 (AMD) - WIND LIMITATIONS / MEETS REQUIREMENTS

TABLE R301.2.(1) (AMD) - CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA:
GROUND SNOW LOAD - 30 LBS PSF / PROVIDED
105 MPH & CLASSIFIED AS WIND-BORNE DEBRIS REGION PER FOOTNOTE APPENDIX R / MEETS REQUIREMENTS
SEISMIC DESIGN CATEGORY - CATEGORY B - (PER 2018 CT CODE - APPENDIX V)
FLOOD HAZARD - VE (BFE = EL.14.00 NAVD - 88 DATUM) / EL.18.5 PROVIDED (500 YR.)
SUBJECT TO DAMAGE - FROST LINE DEPTH - 42 INCHES /PROVIDED

R301.2(2) - COMPONENT AND CLADDING LOADS:
Roof 7 TO 27 DEG. 140 ULTIMATE DESIGN WIND SPEED -
Roof Zone 1,2, & 3 - WIND = 17.1 / -68.6 PRESSURE MAX. W/ COEFFICIENT ADJ. (70 D.P. TO BE PROVIDED)
Wall Zone 4 - WIND = 29.7 / -30.8 PRESSURE MAX. W/ COEFFICIENT ADJ. (50 D.P. PROVIDED)
Wall Zone 5 - WIND = 29.7 / -39.2 PRESSURE MAX. W/ COEFFICIENT ADJ. (50 D.P. PROVIDED)

R301.2(3) - HEIGHT AND EXPOSURE COEFFICIENTS FOR TABLE R301.2(3):
EXPOSURE 'C' / FOR MEAN ROOF HT. 30 FEET = 1.40 ADJUSTMENT (ADDED / PROVIDED)

R301.2(4)C - WIND-BORNE DEBRIS REGIONS -
R301.2.1.2 - PROTECTION OF OPENINGS / IMPACT RESISTANT (PROVIDED)

R301.2.1.4 - EXPOSURE CATEGORY / EXPOSURE 'C'

R301.4 - DEAD LOADS & R301.5 - LIVE LOADS -
GROUND LEVEL FLOOR: 12 PSF DL / 40 PSF LL / PROVIDED
MAIN LEVEL FLOOR: 12 PSF DL / 40 PSF LL / PROVIDED
ATTIC FLOOR: 10 PSF DL/20 PSF LL / PROVIDED
DECK FLOOR: 12 PSF DL / 40 PSF LL / PROVIDED
ROOF : 30 PSF SL - REFER TO STRUCTURAL FOR DEAD LOAD / DRIFT SNOW LOAD= 50 PSF @ 6.5' WIDE

R301.7 - ALLOWABLE DEFLECTION / STRUCTURAL - MEETS REQUIREMENTS - SEE STR.'L DWG.'S
R302.1 - EXTERIOR WALLS - MINIMUM FIRE SEPARATION / NOT REQUIRED
R303 - LIGHT, VENTILATION AND HEATING / MODIFICATIONS SHALL MEET REQUIREMENTS
R306 - SANITATION / MEETS REQUIREMENTS (BACKFLOW VALVE TO BE PROVIDED SEE MEP DWG.'S)

R312 - GUARDS -
R312.1 - WHERE REQUIRED / PROVIDED
R312.2 - HEIGHT - MEETS REQUIREMENTS
R312.3 - OPENING LIMITATIONS / MEETS REQUIREMENTS

R314 - SMOKE ALARM:
R314 - SMOKE ALARMS / TO BE PROVIDED
R314.4 (AMD) - POWER SOURCE - TO BE PROVIDED

R315 - CARBON MONOXIDE ALARM:
R315.1 (AMD) - CARBON MONOXIDE ALARMS - TO BE PROVIDED

R316 - FOAM PLASTIC:
R316.4 - THERMAL BARRIER (MEETS REQUIREMENTS)

R317 - PROTECTION OF WOOD AND WOOD BASED PRODUCTS AGAINST DECAY:
R317.1 - LOCATION REQUIRED (MEETS REQUIREMENTS)

R318 - PROTECTION AGAINST SUBTERRANEAN TERMITES:
R318.1 - SUBTERRANEAN TERMITE CONTROL METHODS (METHOD #3 PROVIDED)

R319 - SITE ADDRESS:
R319.1 - ADDRESS NUMBERS (MEETS REQUIREMENTS)

PER SECTION R322 - FLOOD-RESISTANT CONSTRUCTION:
R322.1 - GENERAL (COMPLIES)
R322.1.2 - STRUCTURAL SYSTEM (PROVIDED)
R322.1.3 - FLOOD-RESISTANT CONSTRUCTION (MEETS REQUIREMENTS)
R322.1.4 - ESTABLISHING THE DESIGN FLOOD ELEVATION
R322.1.4.1 - DETERMINATION OF THE DESIGN FLOOD ELEVATION (500-YEAR FLOOD PROVIDED)
R322.1.5 - LOWEST FLOOR (EXCEEDS MIN. REQUIREMENTS)
R322.1.6 - PROTECTION OF MECHANICAL AND ELECTRICAL (PROVIDED)
R322.1.7 - PROTECTION OF WATER SUPPLY AND SANITARY SEWAGE SYSTEMS (PROVIDED)
R322.1.8 - FLOOD RESISTANT MATERIALS (PROVIDED)
R322.1.10 - AS-BUILT ELEVATION DOCUMENTATION (PROVIDED)
R322.3 - COASTAL HIGH-HAZARD AREAS (V ZONES)
R322.3.1 - LOCATION AND SITE PREPERATION (PROVIDED)
R322.3.2 - ELEVATION REQUIREMENTS (PROVIDED)
R322.3.3 - FOUNDATION (MEETS REQUIREMENTS)
R322.3.4 - WALLS BELOW DESIGN FLOOD ELEVATION (N/A)
R322.3.5 - ENCLOSED AREAS BELOW DESIGN FLOOD ELEVATION (N/A)
R322.3.6 - CONSTRUCTION DOCUMENTS (MEETS REQUIREMENTS)
R322.3.7 - TANKS - (MEETS REQUIREMENTS)

PROJECT DATA

OWNER: DAVID P. MADACSI
53 ROSELEAH DRIVE
MYSTIC, CONNECTICUT 06355

SITE LOCATION: 53 ROSELEAH DRIVE
MYSTIC, CONNECTICUT 06355

LEGEND

GRAVEL
CONCRETE
MORTAR, GROUT
STEEL
FRAMING LUMBER
HARDWOOD
PLYWOOD
BATT INSULATION
GYPSUM WALLBOARD

1 KEY NOTE
1 DETAIL DRAWING NO.
5 / A12 BUILDING SECTION
6 / A3 WALL SECTION
3 / A5 SECTION DETAIL
COLUMN GRID
PLAN / WALL DETAIL
4 A6 2 INTERIOR ELEVATION DRAWING NO.
DATUM POINT (ELEVATION)
203 DOOR NUMBER
W13 WINDOW NUMBER
PARTITION TYPE
03 REVISION FLAG
8 / A6 REFERENCE KEY
REMOVAL NOTE
201 ROOM NUMBER
EQUIPMENT TYPE
CABINET TYPE
C.O.D. CARBON MONOXIDE DETECTOR
S.D. SMOKE DETECTOR (HARD WIRE)
H.D. HEAT DETECTOR (HARD WIRE)
CEILING FAN/LIGHT

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Sheet Title:
TITLE SHEET

APPLICATION #1588

MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06355

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 05/06/2018

Project Number: --
Drawn By: J.V.L.

Sheet Number:
T1

DEMO NOTES

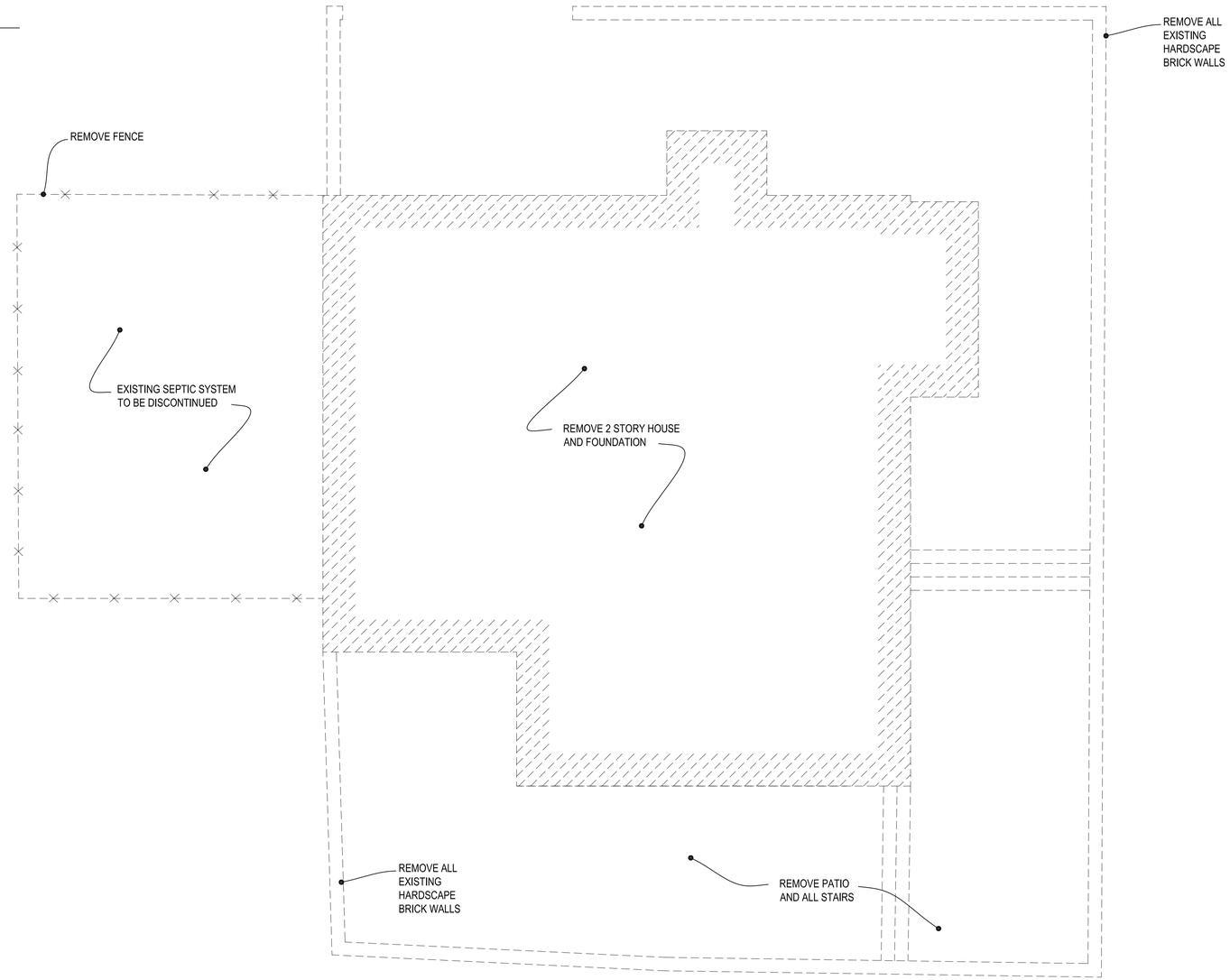
ALL UTILITIES SHALL BE LOCATED AND DISCONNECTED PRIOR TO COMENCING WORK.

DEMO ENTIRE HOUSE:
1. WOOD FRAME STRUCTURE
2. FOUNDATION
3. SLABS
4. PAVERS
5. HARDSCAPE WALLS
6. DECKS
7. SEPTIC
8. FENCES

NOTES:
1. FREE STANDING SHED SHALL REMAIN
2. ALL MATERIALS SHALL BE REMOVED FROM THE SITE - DO NOT STORE REMOVED MATERIAL ON SITE.

DEMO LEGEND

– – – – – – – – REMOVAL



1/R1 DEMO PLAN
SCALE: 1/4" = 1'-0"

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Sheet Title:
DEMO PLAN

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Sheet Number:
D1

WALL LEGEND

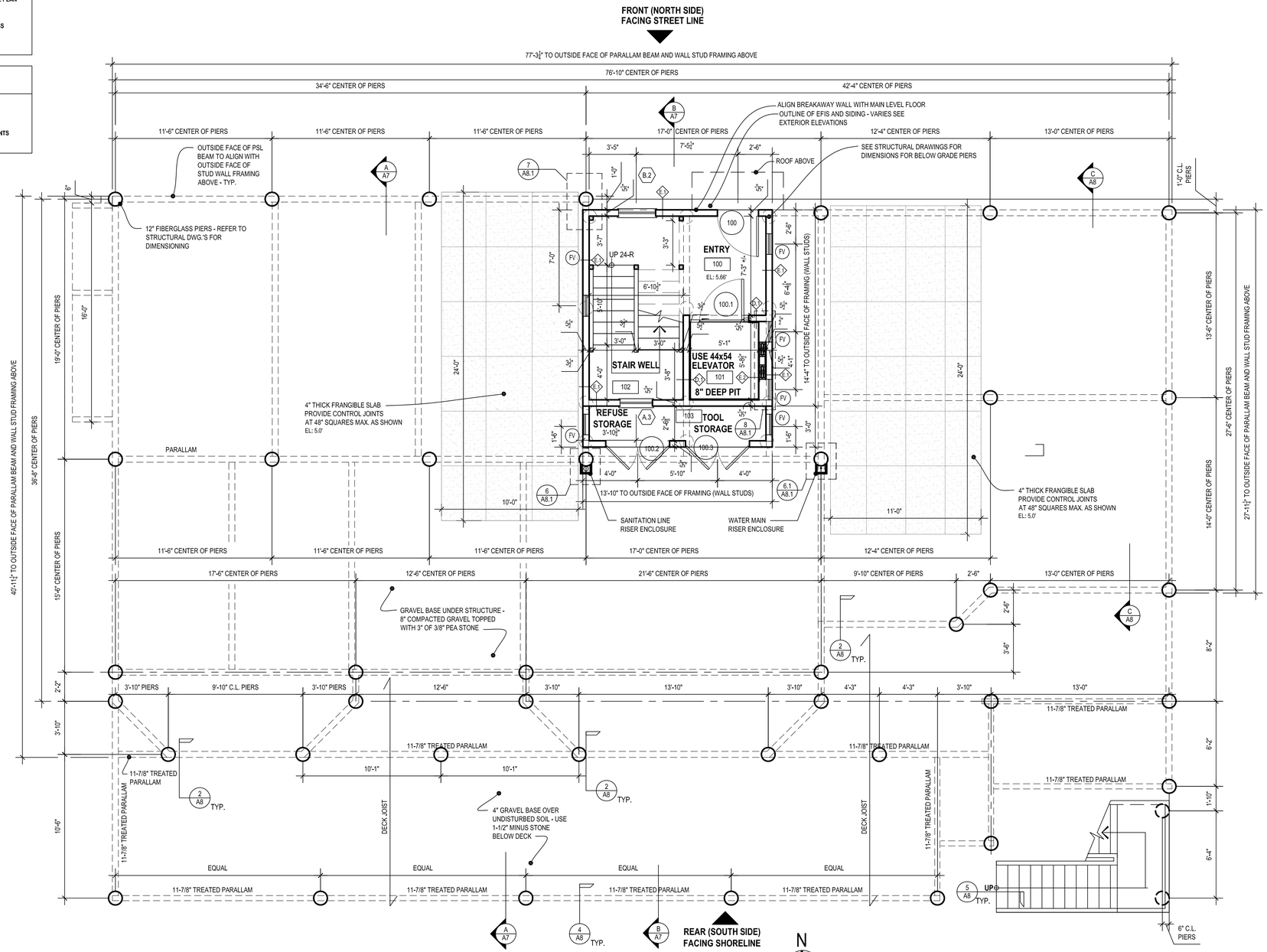
STUD WALL (WALL SIZE VARIES) - SEE PLAN AND PARTITION TYPES

12" DIA. CONCRETE FILLED FIBERGLASS PIERS - SEE STRUCTURAL DWG.'S

SYMBOL LEGEND

PARTITION TYPE - SEE SHEET #A8.1 FOR PARTITION TYPE DETAIL.

FV — FLOOD VENTS - USE INSULATED SMART VENTS FOR STUD WALLS



GROUND LEVEL FLOOR PLAN

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

GROUND LEVEL FLR. / ENTRY = 258 SF

GROUND LEVEL ENTRY STAIR & ELEVATOR - (EXCLUDE FROM G.F.A. PER ZONING REGS AMD 7-01-15)

GROUND LEVEL REFUSE & TOOL LOW HEADROOM STORAGE - (EXCLUDED G.F.A.PER ZONING REGS AMD 7-01-15))

TOTAL = GROUND LEVEL ENTRY FLOOR = 0 S.F. (G.F.A.)

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GROUND LEVEL FLOOR PLAN

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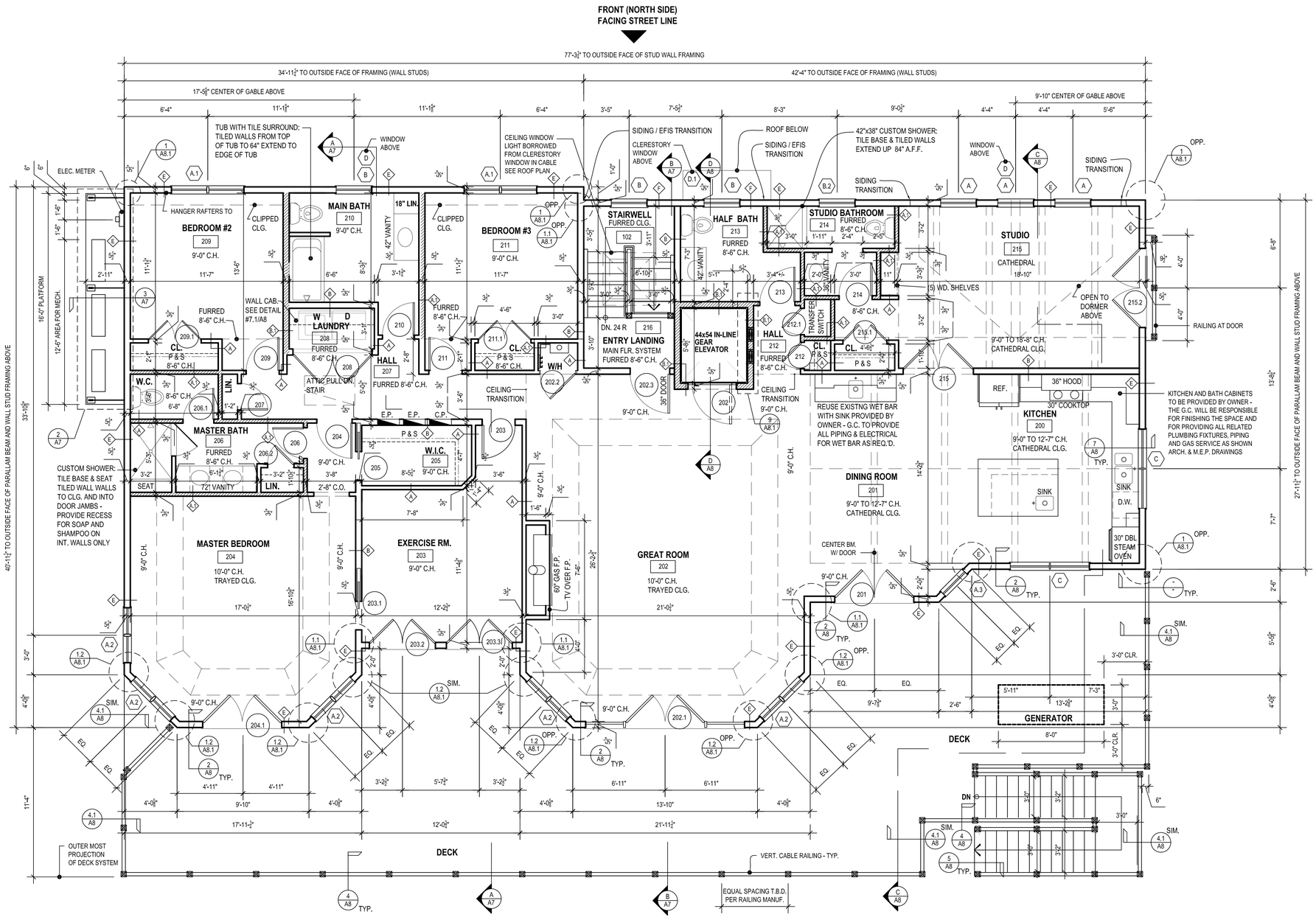
A1



WALL LEGEND

- STUD WALL (WALL SIZE VARIES) - SEE PLAN AND PARTITION TYPES
- STUD WALL W/ ATTENUATION BLANKET (WALL THICKNESS VARIES) - SEE PLAN AND PARTITION TYPES

SYMBOL LEGEND

- PARTITION TYPE - SEE SHEET #A8.1 FOR PARTITION TYPE DETAIL.
- F/V FLOOD VENTS - USE INSULATED SMART VENTS FOR STUD WALLS

MAIN LEVEL FLOOR PLAN

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

MAIN LEVEL FLR. 2,820 SF
MAIN LEVEL FLR. STAIR & ELEVATOR 120 S.F. (EXCLUDE FROM G.F.A.)
TOTAL = MAIN LEVEL FLR. 2,700 SF (G.F.A.)

GROUND LEVEL FLR. ENTRY STAIR & ELEVATOR (EXCLUDED FROM G.F.A. PER ZONING REGS)
GROUND LEVEL REFUSE TOOL & STORAGE (EXCLUDED FROM G.F.A.)
TOTAL = GROUND LEVEL ENTRY FLOOR = 0 S.F. (G.F.A.)

GRAND TOTAL = MAIN & GROUND FLOOR = 2,700 S.F. (G.F.A.)
PLEASE NOTE: G.F.A. IS TO FACE OF FINISH EXTERIOR WALL - PER ZONNING REGS AND APPROVED SITE PLAN

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MAIN LEVEL FLOOR PLAN

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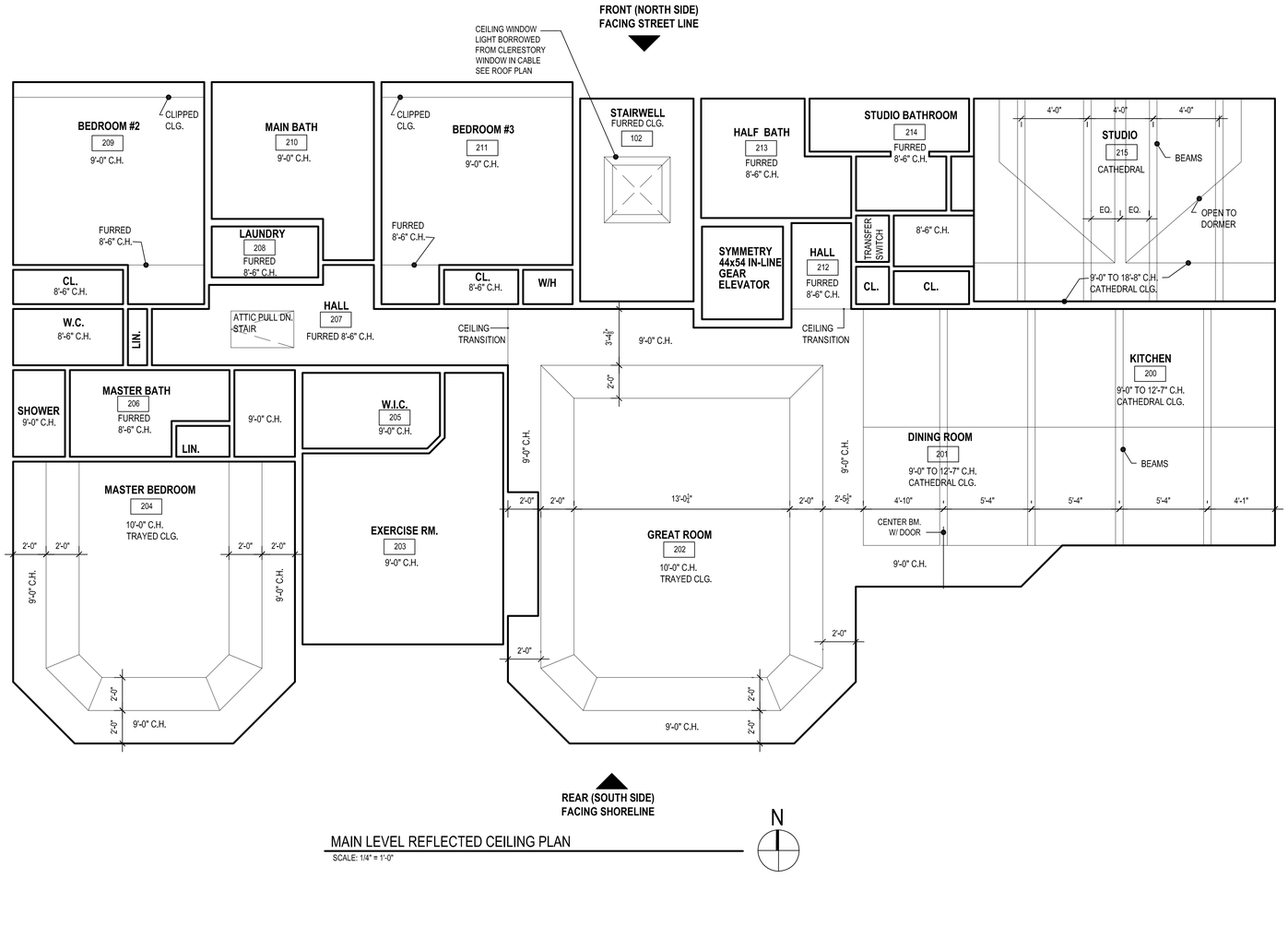
A2



MAIN LEVEL REFLECTED CEILING PLAN

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

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MAIN LEVEL REFLECTED CEILING PLAN

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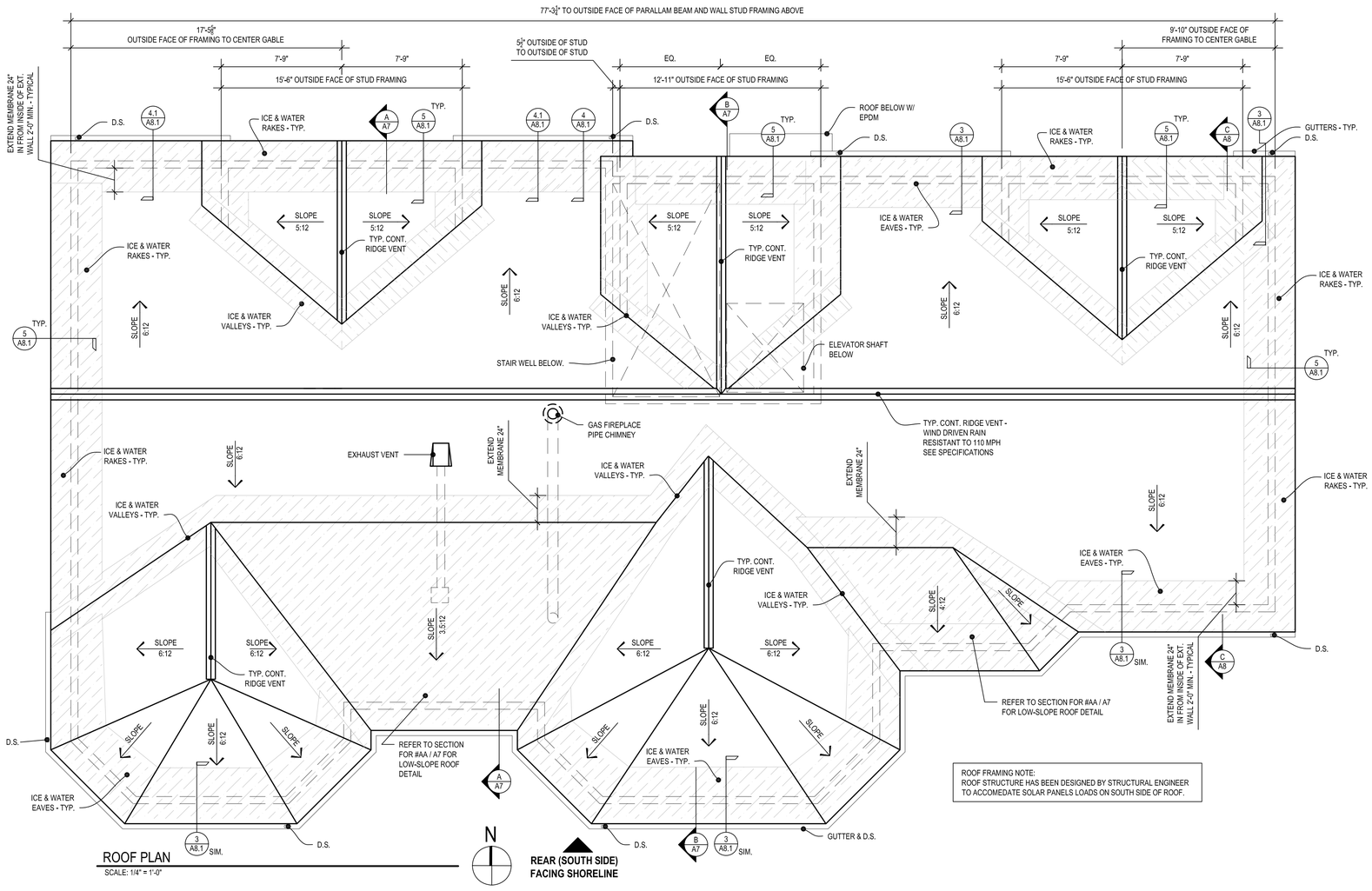
A2.1



ROOF PLAN

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

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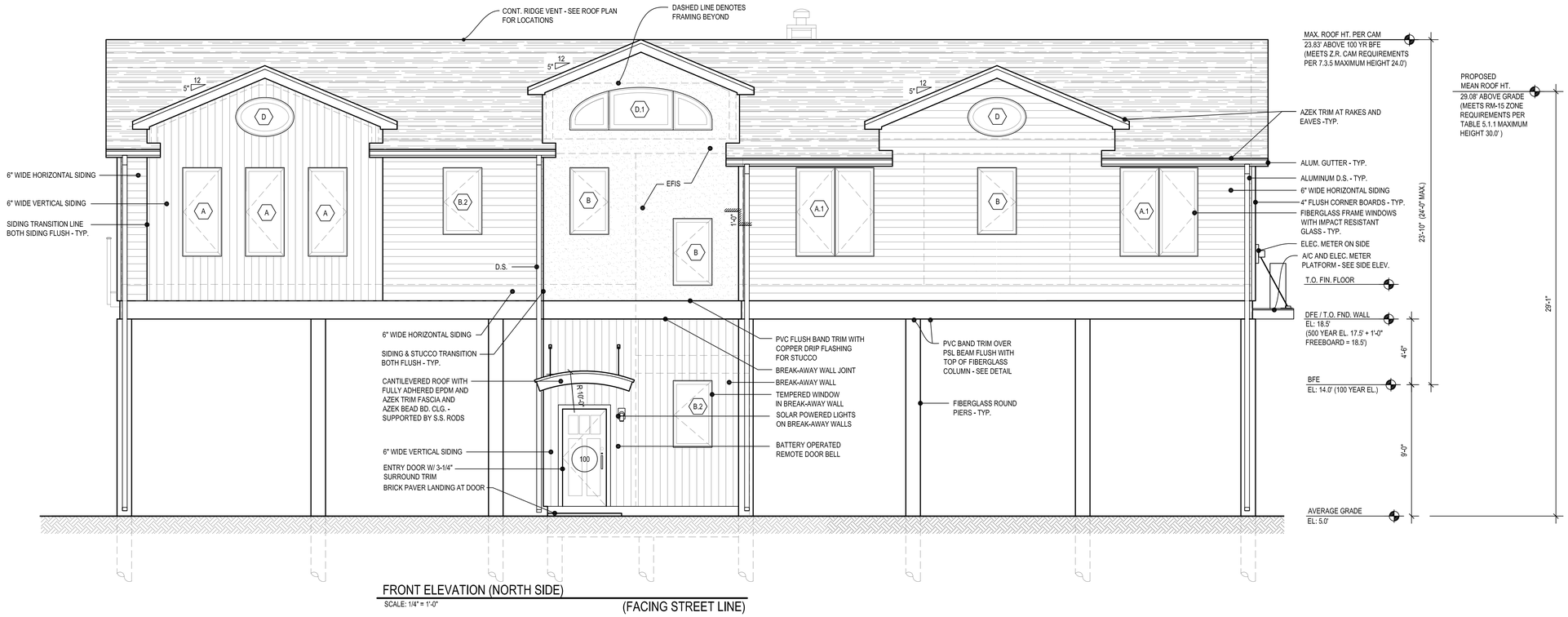
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 05/06/2018

Job Number: --

Drawn By: J.V.L.

Sheet Number:
A3



FRONT ELEVATION (NORTH SIDE)

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

(FACING STREET LINE)

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American Institute of Architects

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ORANGE, CT 06477

TEL (203) 795 5656
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Sheet Title:

FRONT ELEV. (NORTH SIDE)

APPLICATION # 1588

MADACSI RESIDENCE

53 ROSELEAH DRIVE

Mystic, CT 06355

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 05/06/2018

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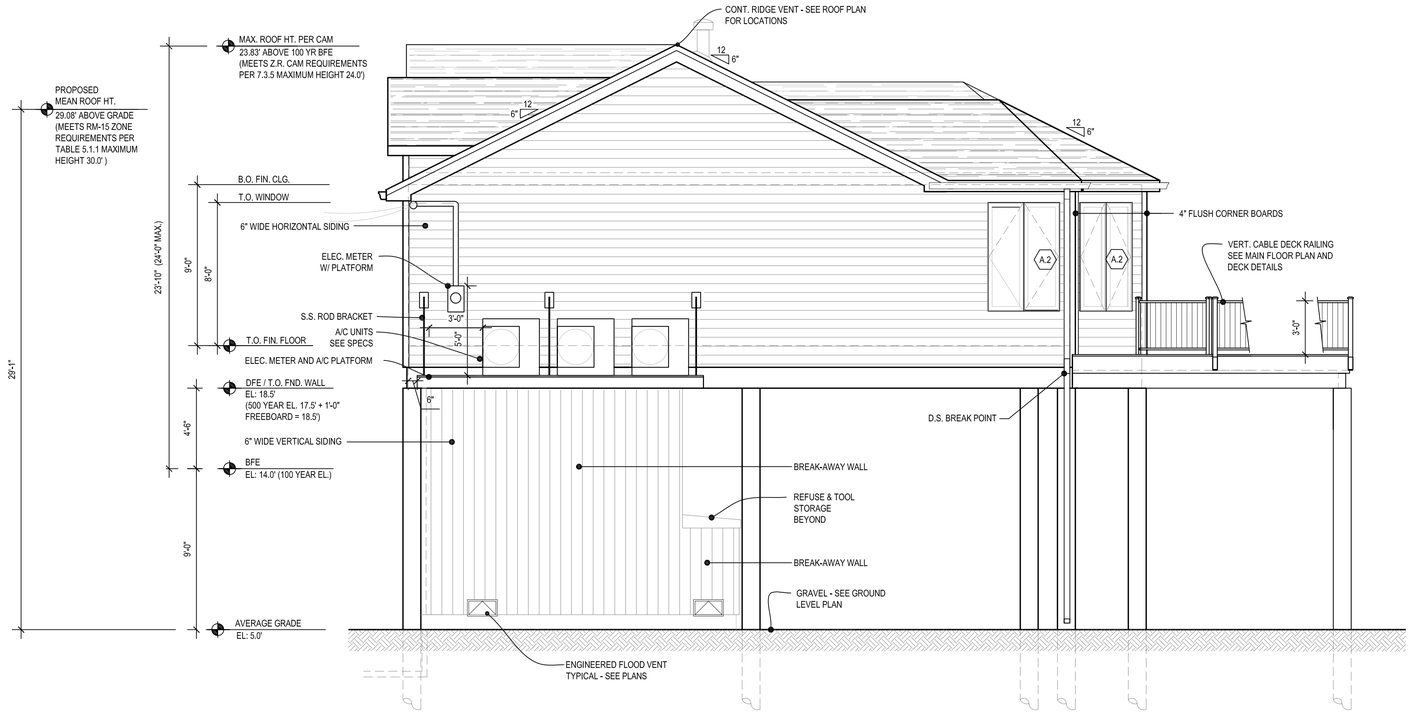
Drawn By: J.V.L.

Sheet Number:

A4



RIGHT ELEVATION (WEST SIDE)

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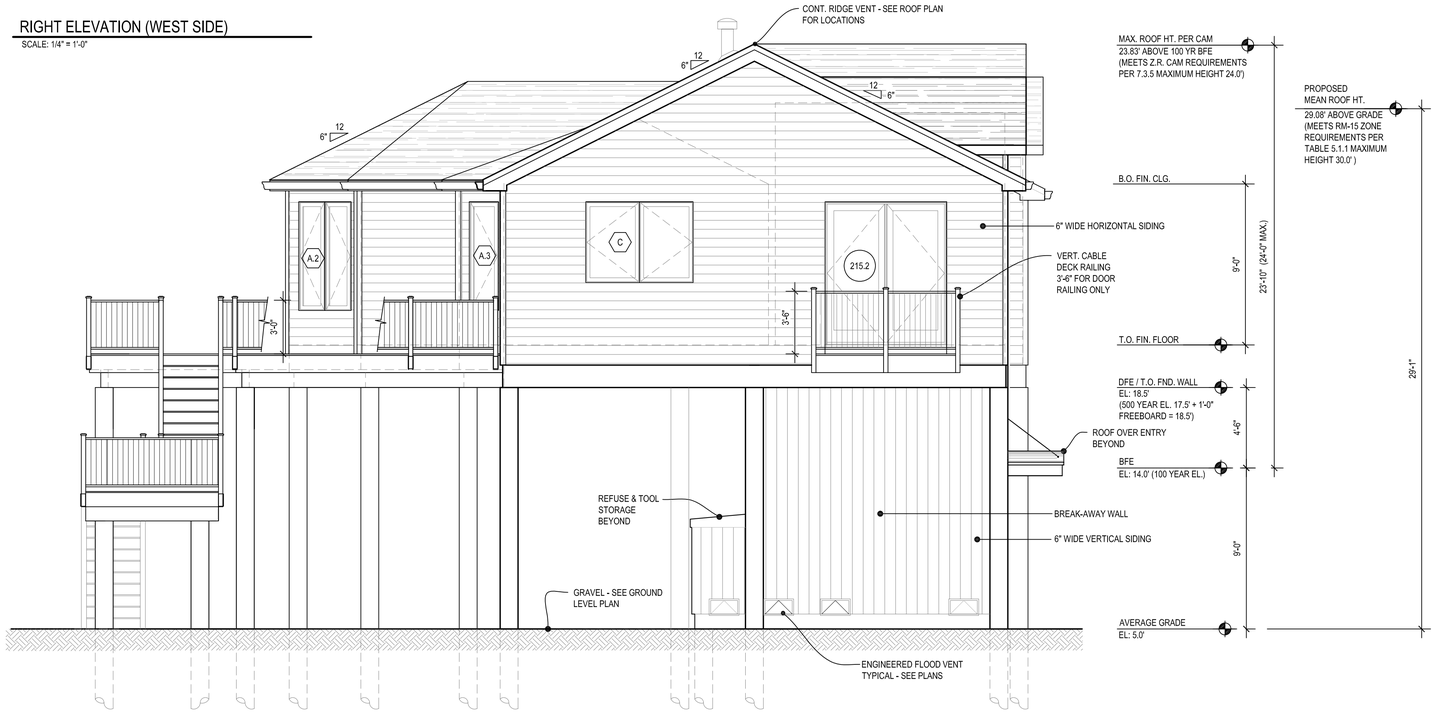

LEFT ELEVATION (EAST SIDE)

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

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Sheet Title:

SIDE ELEVATIONS

APPLICATION # 1588

MADACSI RESIDENCE

53 ROSELEAH DRIVE
Mystic, CT 06355

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
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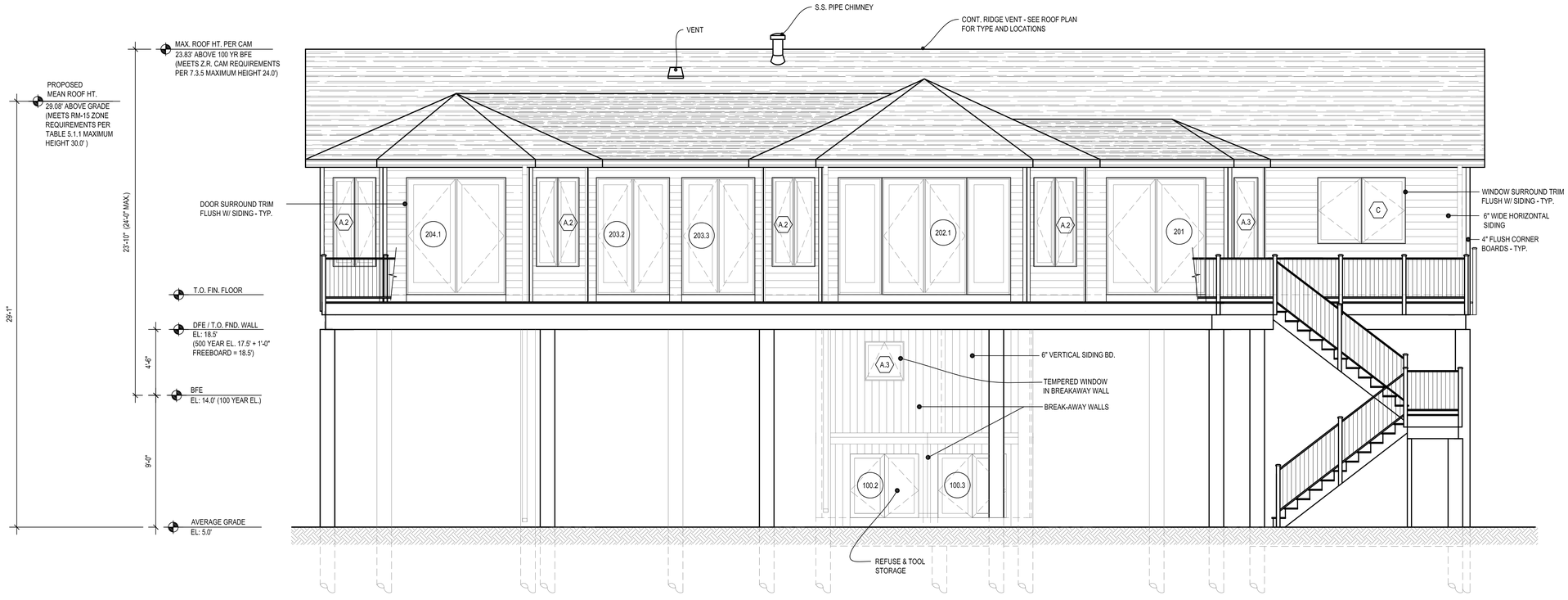
Drawn By: J.V.L.

Sheet Number:

A5



REAR ELEVATION (SOUTH SIDE)

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

(FACING SHORELINE)

Amaya Architects

American Institute of Architects

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Sheet Title:

REAR ELEVATION

APPLICATION # 1588

MADACSI RESIDENCE

53 ROSELEAH DRIVE
Mystic, CT 06355

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
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AND REBUILDING PROGRAM (OORR)

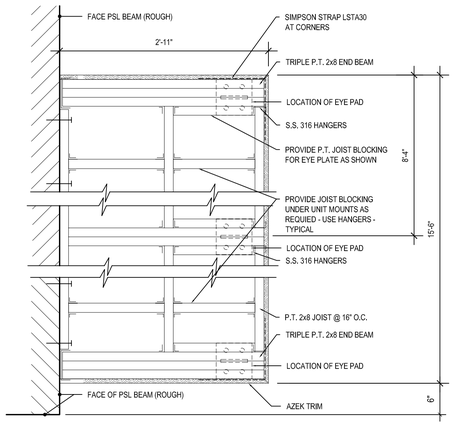
Date: 05/06/2018

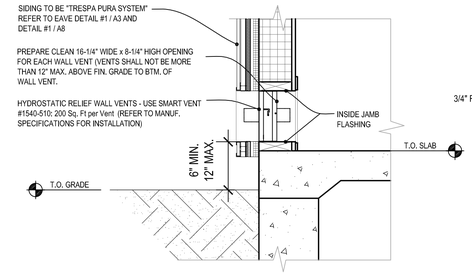
Job Number: --

Drawn By: J.V.L.

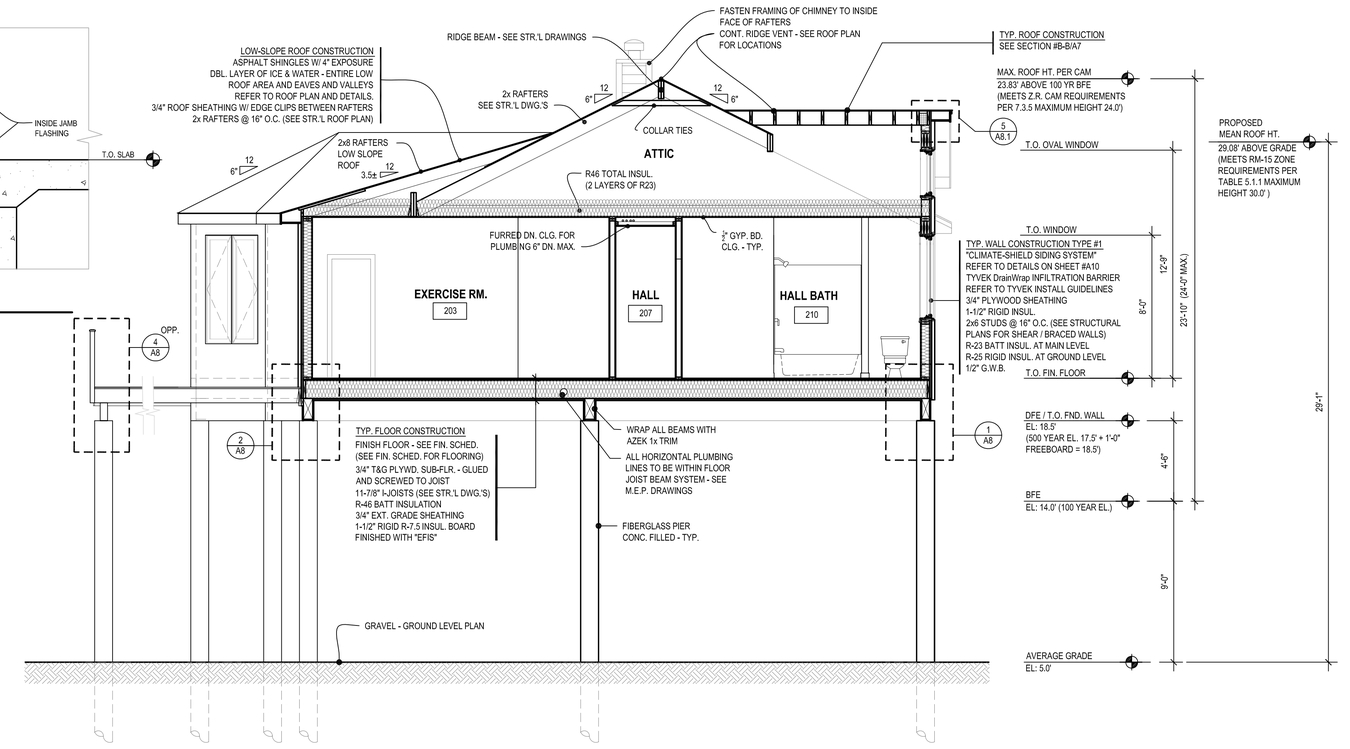
Sheet Number:

A6

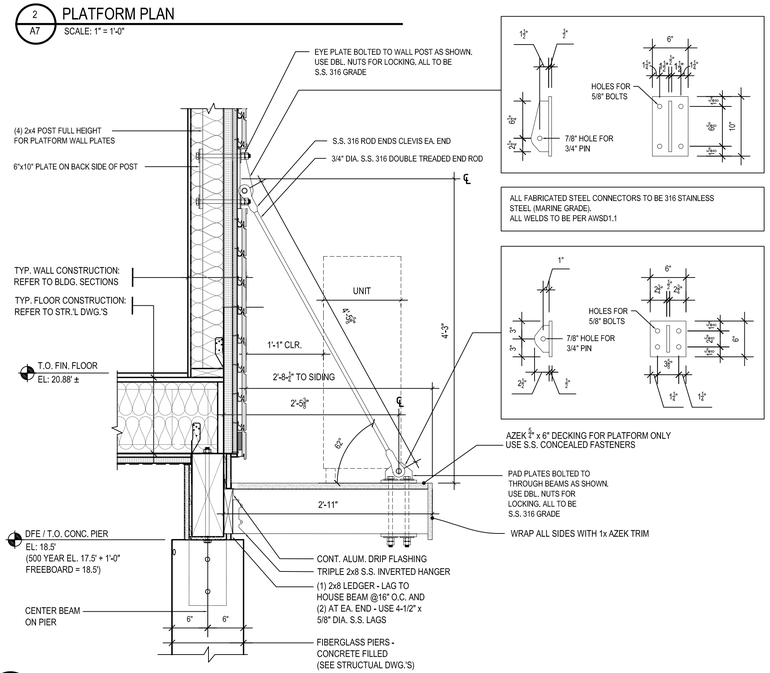




1 A7 TYPICAL DETAIL @ FLOOD VENT
SCALE: 1" = 1'-0"



2 A7 PLATFORM PLAN
SCALE: 1" = 1'-0"



3 A7 TYPICAL PLATFORM DETAIL
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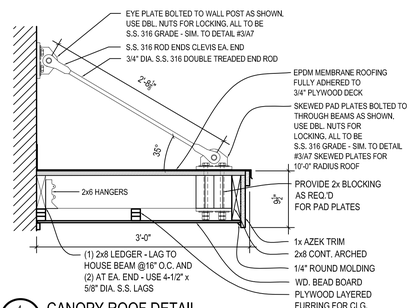
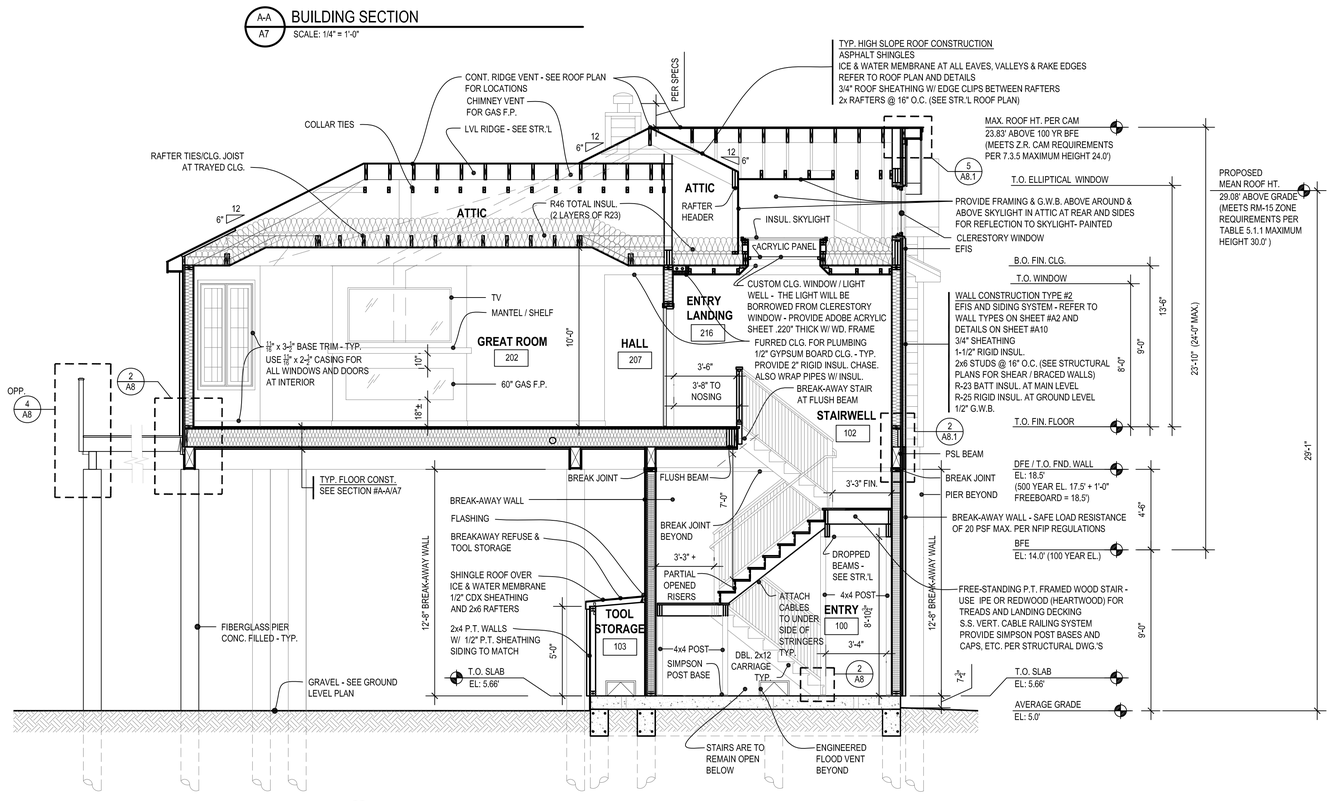


4 A7 CANOPY ROOF DETAIL
SCALE: 1" = 1'-0"

A-A A7 BUILDING SECTION
SCALE: 1/4" = 1'-0"



B-B A7 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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Sheet Title:
BUILDING SECTIONS

APPLICATION # 1588

MADACSI RESIDENCE
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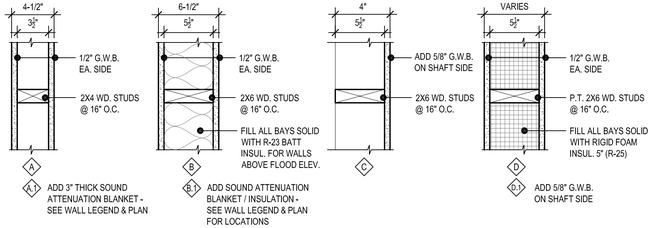
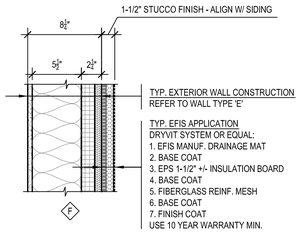
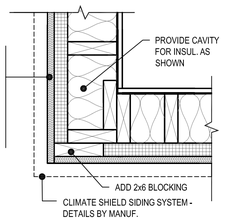
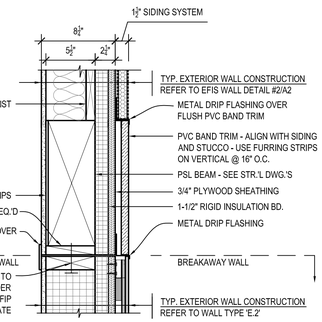


TYP. EXTERIOR WALL CONSTRUCTION
CLIMATE SHIELD SIDING SYSTEM - DETAILS BY MANUF.
TYVEK DrainWrap INFILTRATION BARRIER / RAINSCREEN - 3" TYVEK TAPE TERMINATIONS
3/4" PLYWOOD SHEATHING
1-1/2" RIGID INSULATION BOARD (SEE STRUCTURAL PLANS FOR SHEAR WALL)
2x6 STUDS @ 16" O.C.
R-23 (5.5") BATT INSUL. W/ 1/2" G.W.B. INSIDE FIN.



TYP. EXTERIOR WALL CONSTRUCTION
SIDING - CLIMATE SHIELD SIDING SYSTEM
INFILTRATION BARRIER (ADDITIONAL WRAP - T.B.D.)
3/4" PLYWOOD SHEATHING
1-1/2" RIGID INSULATION BOARD (SEE STRUCTURAL PLANS FOR SHEAR WALL)
2x6 STUDS @ 16" O.C.
R-23 (5.5") BATT INSUL. W/ 1/2" G.W.B. INSIDE FIN.

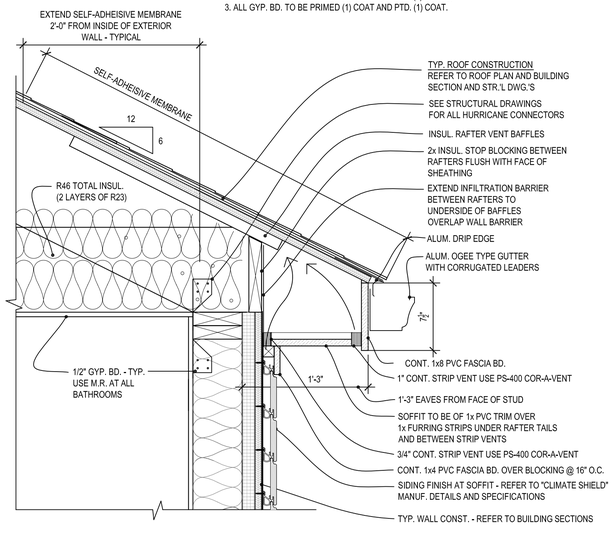




WALL TYPES

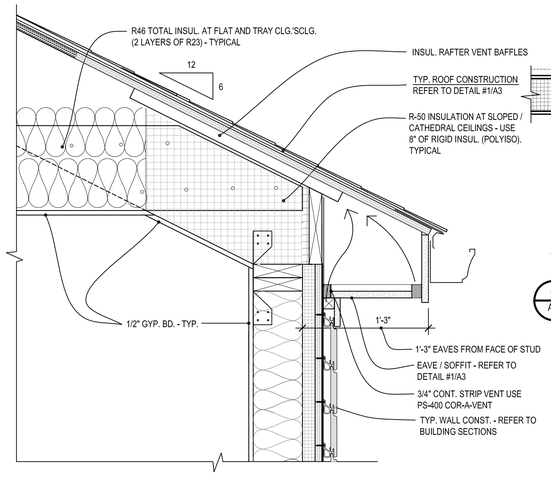
SCALE: 1-1/2" = 1'-0"

NOTES: 1. PROVIDE BLOCKING AS REQ.'D. FOR SHELVING, ETC.
2. ALL GYP. BD. TO BE TAPED AND COMPOUNDED (3) COATS.
3. ALL GYP. BD. TO BE PRIMED (1) COAT AND PTD. (1) COAT.



1 A8.1 TYPICAL FRAMED CORNER

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

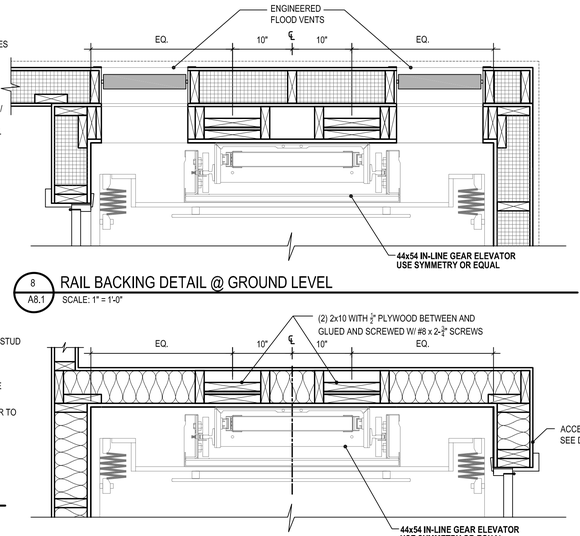


3 A8.1 TYPICAL DETAIL @ EAVE

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

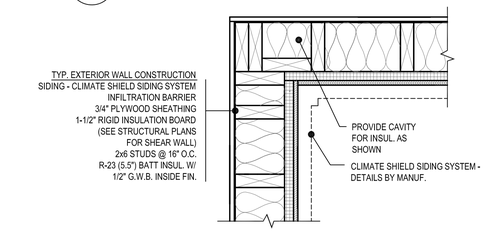
4 A8.1 TYPICAL DETAIL @ EAVE

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



8 A8.1 RAIL BACKING DETAIL @ GROUND LEVEL

SCALE: 1" = 1'-0"



1.1 A8.1 TYPICAL INSIDE CORNER DETAIL

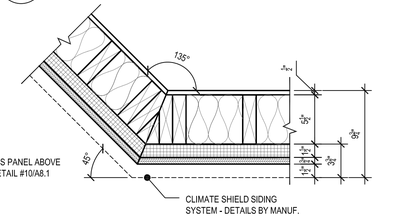
SCALE: 3" = 1'-0"

2 A8.1 BREAKAWAY WALL DETAIL

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

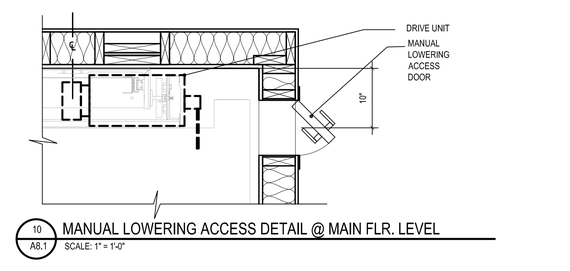
9 A8.1 RAIL BACKING DETAIL @ MAIN FLOOR LEVEL

SCALE: 1" = 1'-0"



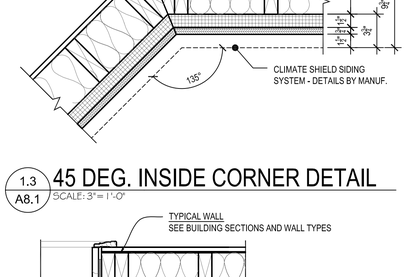
1.2 A8.1 45 DEG. OUTSIDE CORNER DETAIL

SCALE: 3" = 1'-0"



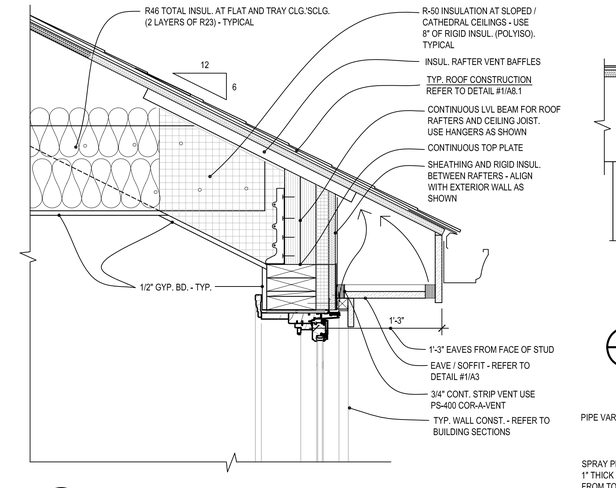
10 A8.1 MANUAL LOWERING ACCESS DETAIL @ MAIN FLR. LEVEL

SCALE: 1" = 1'-0"



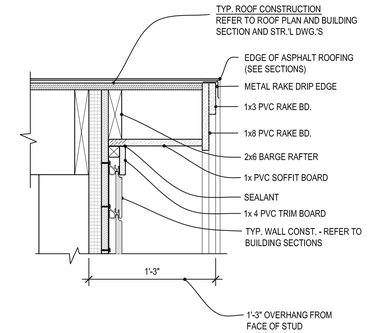
1.3 A8.1 45 DEG. INSIDE CORNER DETAIL

SCALE: 3" = 1'-0"



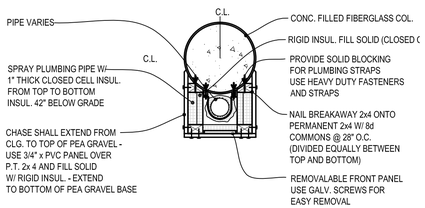
4.1 A8.1 TYPICAL DETAIL @ EAVE

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



5 A8.1 TYPICAL DETAIL @ GABLE OVERHANG

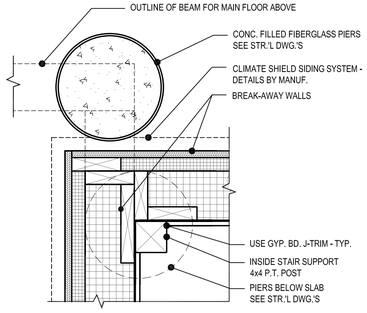
SCALE: 1-1/2" = 1'-0"



6 A8.1 TYP. BREAKAWAY PLUMBING CHASE DETAIL

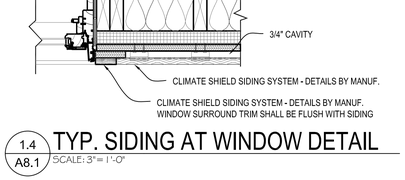
SCALE: 1" = 1'-0"

NOTE: CHASE IS DESIGNED TO BREAKAWAY FROM PIER UNDER MIN. WATER PRESSURE MEETING FEMA BREAKAWAY WALL DESIGN



7 A8.1 TYPICAL FRAMED CORNER

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



1.4 A8.1 TYP. SIDING AT WINDOW DETAIL

SCALE: 3" = 1'-0"

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Sheet Title:
WALL TYPES & DETAILS
ROOF DETAILS

APPLICATION # 1588

MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06355

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
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Drawn By: J.V.L.

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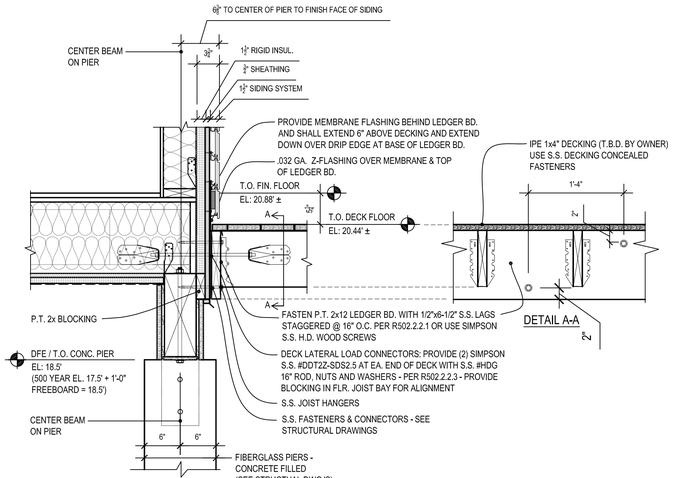
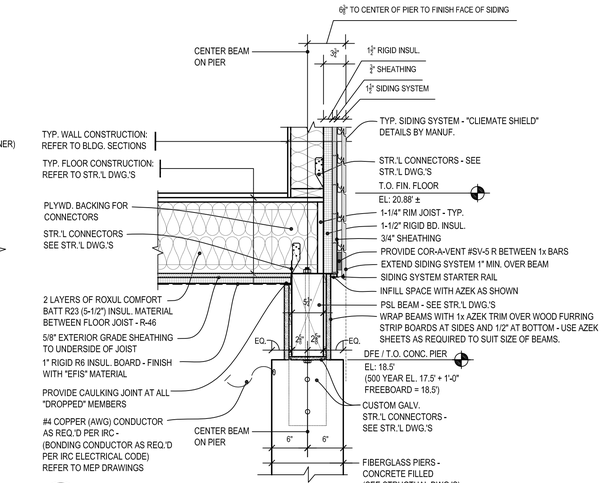
A8.1

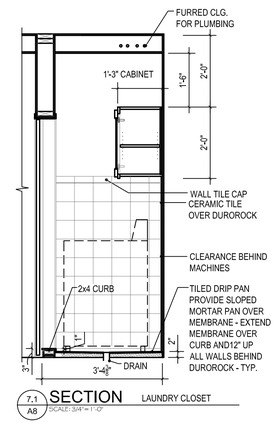


2 A8 TYPICAL DETAIL @ DECK
SCALE: 1" = 1'-0"

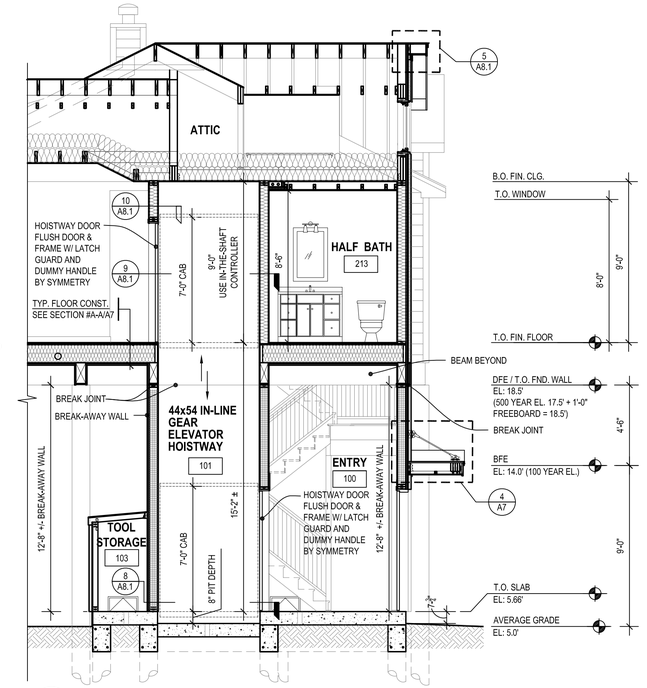
NOTE: ALL METAL FASTENERS, CONNECTORS AND FLASHING SHALL BE S.S. 316 (MARINE GRADE)



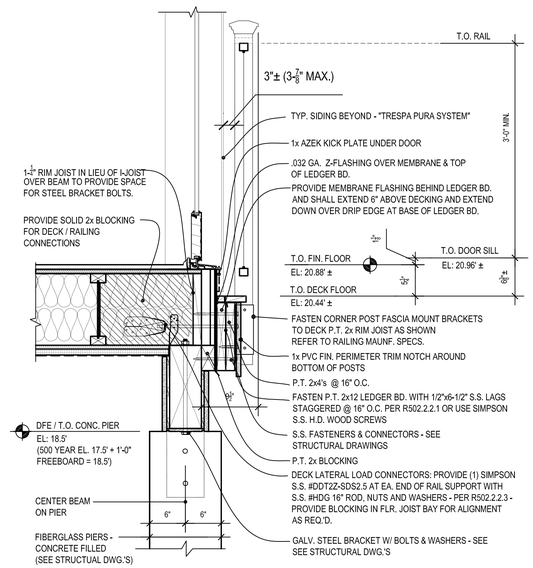
1 A8 TYPICAL DETAIL @ FLOOR / WALL
SCALE: 1" = 1'-0"



7.1 A8 SECTION LAUNDRY CLOSET
SCALE: 3/4" = 1'-0"

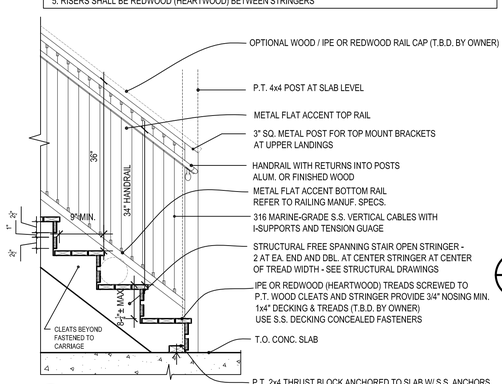


D-D A8 BUILDING SECTION
SCALE: 1/4" = 1'-0"

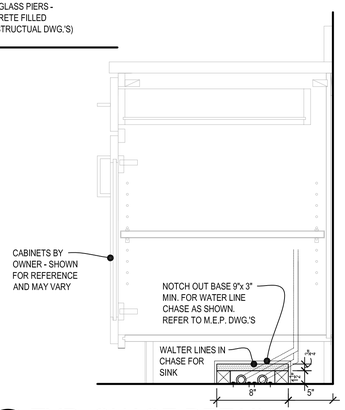


3 A8 DETAIL @ DOOR RAILING
SCALE: 1" = 1'-0"

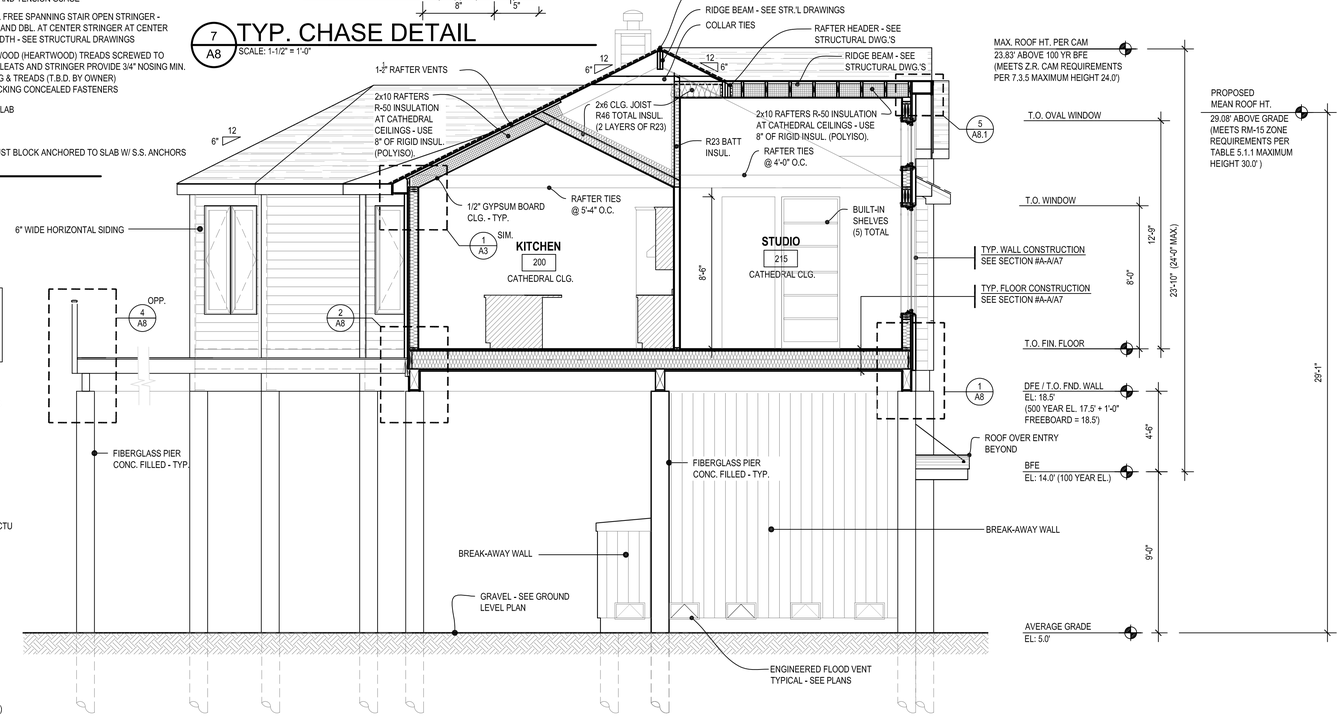
LANDING, STAIR & RAIL NOTES:
1. RAILING / GUARDRAIL - TO BE VERTICAL CABLE RAILING SYSTEM (MARINE GRADE) REFER TO SPECS FOR INSTALL
2. ALL FLOOR DECKING / TREADS TO BE 1x4 IPE OR REDWOOD (HEARTWOOD) -T.B.D. BY OWNER
3. ALL STRUCTURAL FRAMING TO BE P.T. LUMBER
4. ALL WOOD DECK FASTENERS SHALL BE 316 MARINE GRADE S.S.
5. RISERS SHALL BE REDWOOD (HEARTWOOD) BETWEEN STRINGERS



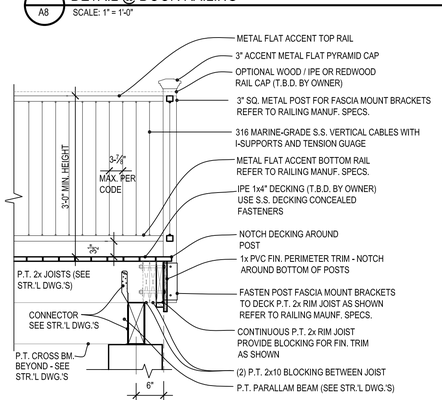
6 A8 ENTRY STAIR DETAIL
SCALE: 3/4" = 1'-0"



7 C8 TYP. CHASE DETAIL
SCALE: 1-1/2" = 1'-0"



C-C A8 CROSS ELEVATION
SCALE: 1/4" = 1'-0"

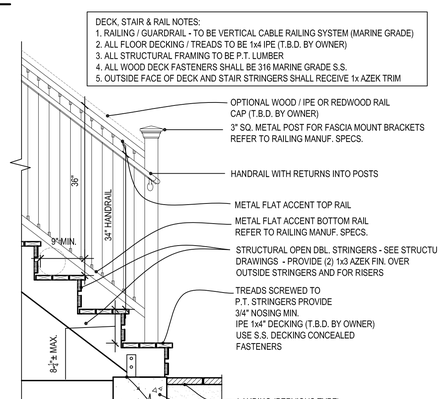


VERTICAL CABLE RAILING - DETAIL BASED ON FORTRESS RAILING PRODUCTS

4 A8 DECK RAIL DETAIL
SCALE: 3/4" = 1'-0"

COLOR OF POST & RAILS TO BE CHOSEN BY OWNER

DECK, STAIR & RAIL NOTES:
1. RAILING / GUARDRAIL - TO BE VERTICAL CABLE RAILING SYSTEM (MARINE GRADE)
2. ALL FLOOR DECKING / TREADS TO BE 1x4 IPE (T.B.D. BY OWNER)
3. ALL STRUCTURAL FRAMING TO BE P.T. LUMBER
4. ALL WOOD DECK FASTENERS SHALL BE 316 MARINE GRADE S.S.
5. OUTSIDE FACE OF DECK AND STAIR STRINGERS SHALL RECEIVE 1x AZEK TRIM



5 A8 DECK STAIR DETAIL
SCALE: 3/4" = 1'-0"

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Sheet Title:
BUILDING SECTION AND DETAILS

APPLICATION # 1588

MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06355

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

Date: 05/06/2018

Job Number: --
Drawn By: J.V.L.

Sheet Number:
A8

FINISH SCHEDULE

MISC. ABBREVIATIONS
PTD - PAINTED
NP - NOT PAINTED
N/A - NOT APPLICABLE
HDWD - HARDWOOD (TYPE T.B.D.)
CMT. BD. - CEMENT BOARD
CPT - CARPET
CT - CERAMIC TILE
STD - STANDARD
LWD - LAMINATED WOOD
WD - WOOD (PINE OR POPLAR)
D.F. - T & G DOULAS FIR

** PAINT COLORS T.B.D. BY OWNER
ONE COLOR PER ROOM

NOTE:
1. ALL CEILINGS SHALL BE PRIMED AND PAINTED FLAT WHITE.
2. ALL WINDOW AND DOOR CASING SHALL BE PRIMED & PAINTED (MATCH COLOR)
3. USE M.R. CYP BOARD IN ALL BATHS AND EXERCISE ROOM
4. TOP OF FINISH FLOOR ELEVATION SHALL BE THE SAME MATCH (FLUSH) WITH ALL ROOMS.

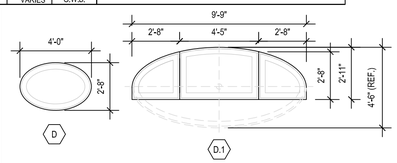
REV.#	NUM.	ROOM NAME	FLOOR		BASE			NORTH WALL			EAST WALL			SOUTH WALL			WEST WALL			CEILING HEIGHT	CEILING MAT.\	REMARKS
			SUBSTRATE	FINISH	COLOR	MAT.\	FINISH	COLOR	MAT.\	FINISH	COLOR	MAT.\	FINISH	COLOR	MAT.\	FINISH	COLOR	MAT.\	FINISH	COLOR			
	100	ENTRY	CONC.	TILE	T.B.D.	CT	STD	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	13'-9"±	G.W.B.	
	101	ELEVATOR	CONC.	N/A	T.B.D.	CT	STD	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	24'-0"±	C.B.	
	102	STAIRWELL	CONC.	TILE	T.B.D.	CT	STD	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	24'-0"±	G.W.B.	
	103	REFUSE & TOOL STORAGE	CONC.	N/A	N/A	WD	PTD.	**	-	PTD.	**	-	PTD.	**	-	PTD.	**	-	PTD.	**	5'-0" ±	-	
	200	KITCHEN	CMT. BD.\	TILE	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	VARIES	G.W.B.	
	201	DINING ROOM	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	VARIES	G.W.B.	
	202	GREAT ROOM	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	VARIES	G.W.B.	
	203	EXERCISE ROOM	CMT. BD.\	TILE	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	9'-0"	G.W.B.	
	204	MASTER BEDROOM	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	VARIES	G.W.B.	
	205	W.I.C.	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	9'-0"	G.W.B.	
	206	MASTER BATH	CMT. BD.\	TILE	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	8'-6"	G.W.B.	CMT. BD. SHOWER WALLS
	207	HALL	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	VARIES	G.W.B.	
	208	LAUNDRY	CMT. BD.\	TILE	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	8'-6"	G.W.B.	
	209	BEDROOM #2	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	9'-0"	G.W.B.	
	210	MAIN BATH	CMT. BD.\	TILE	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	VARIES	G.W.B.	CMT. BD. SHOWER WALLS
	211	BEDROOM #3	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	9'-0"	G.W.B.	
	212	HALL	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	8'-6"	G.W.B.	
	213	HALF BATH	CMT. BD.\	TILE	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	8'-6"	G.W.B.	CMT. BD. SHOWER WALLS
	214	STUDIO BATHROOM	CMT. BD.\	TILE	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	8'-6"	G.W.B.	CMT. BD. SHOWER WALLS
	215	STUDIO	PLYWD.	HDWD.	**	WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	VARIES	G.W.B.	
	216	ENTRY LANDING	PLYWD.	D.F.		WD	PTD.	**	G.W.B.	PTD.	**	G.W.B.	PTD	**	G.W.B.	PTD	**	G.W.B.	PTD	**	VARIES	G.W.B.	

WINDOW SCHEDULE

1. ALL WINDOWS WILL BE INTEGRITY WOOD-ULTREX CASEMENTS AS MANUFACTURED BY MARVIN - WINDOWS SHALL BE 0.27 U-FACTOR AND MIN. DP 50 RATING AND IMPACT RESISTANT GLASS.
2. WINDOWS SHALL HAVE EXTENDED JAMBS FOR 8-5/16" FOR WALLS W/ INSUL. SHEATHING (V.I.F. W/ G.C.)

REV.#	NO.	UNIT SIZE (WIDTH x HEIGHT)	MANUF. UNIT NUMBER	GRILLE	QTY./ SETS	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
	A	2'-8" x 5'-11-1/8"	3371 ET		5	6/A9	7/A9	5/A9	EGRESS
	A.1	5'-4" x 5'-11-1/8"	3371 2W ET		2	6/A9	7/A9	5/A9	EGRESS
	A.2	4'-0" x 5'-11-1/8"	2571 2W ET		5	6/A9	7/A9	5/A9	
	A.3	2'-4" x 5'-11-1/8"	2971 ET		1	6/A9	7/A9	5/A9	
	B	2'-8" x 4'-7-1/8"	3355 E		3	6/A9	7/A9	5/A9	
	B.2	2'-8" x 4'-7-1/8"	3355 E		2	6/A9	7/A9	5/A9	TEMPERED
	C	6'-0" x 4'-7-1/8"	3755 2W E		2	6/A9	7/A9	5/A9	
	D	4'-0" x 2'-8" OVAL WINDOW	-		2	6/A9	7/A9	5/A9	SEE CUSTOM WINDOW DETAIL #10/A-9
	D.1	9'-9"x2'-11" ELLIPTICAL (3 PC. UNIT)	-		1	6/A9	7/A9	5/A9	SEE CUSTOM WINDOW DETAIL #10/A-9
	E	2'-8" x 2'-7-5/8" AT GROUND FLR. PLAN	3333 ET		1				TEMPERED
	F	60"x60" SKYLIGHT INSIDE ATTIC	FS S06 2006		1				

ALL WINDOWS AND PATIO DOORS WILL BE FIBERGLASS EXTERIOR WITH WOOD INTERIOR
PROVIDE FALL PROTECTION DEVICES, INTERIOR MOUNTED SCREENS, AND HARDWARE.
ALL SOLID INSUL. EXT. DOORS ARE TO BE FIBERGLASS UNLESS NOTED OTHERWISE
VERIFY ALL SIZES PRIOR TO ORDERING UNITS.



10 / A-9 CUSTOM WINDOWS
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

ABBREVIATIONS:
CMST - COMPOSITE
ALUM. - ALUMINUM
WD. - WOOD
MTL. - MTL.
STD. - STANDARD
FGLS. - FIBERGLASS
PTD. - PAINTED
INT. - INTERIOR
EXT. - EXTERIOR

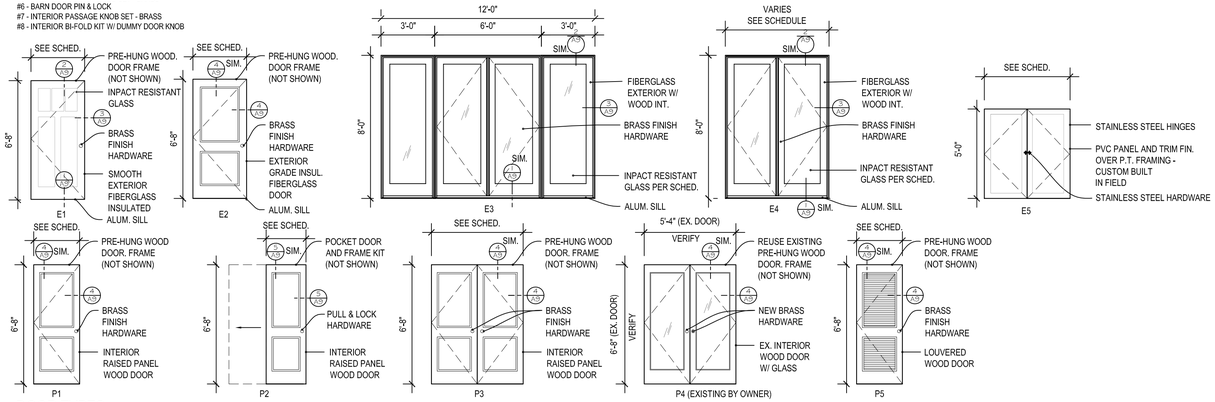
1. ALL EXTERIOR FRENCH DOORS WILL BE INTEGRITY WOOD-ULTREX CASEMENTS AS MANUFACTURED BY MARVIN AND WILL BE 0.27 U-FACTOR AND MIN. DP 50 RATING AND IMPACT RESISTANT GLASS
2. ALL INTERIOR DOORS WILL BE AS MANUF. BY JELD-WEN - KNOTTY ALDER, TWO PANEL DOORS WITH RAISED PANEL #0022 WITH CHERRY FINISH.
3. EXTERIOR DOORS SHALL HAVE EXTENDED JAMBS FOR 8-5/16" FOR WALLS W/ INSUL. SHEATHING (VERIFY W/ G.C.)

REV.#	DR. NUM.	ROOM NUM.	DOOR SIZE OR UNIT NUMBER (WIDTH x HEIGHT)	DOOR TYPE	DOOR MAT.\	DOOR FINISH	FRAME	FRAME MAT.\	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	LABEL	HARDWARE SET	REMARKS
	100	100	3'-0"x 6'-8" (SINGLE DOOR)	E1	FGLS	PTD	-	CMST	PTD.	2/A9	1/A9	1.1/A9	1	11	ADA APPROVED ALUM. SILL
	100.1	101	3'-0"x 6'-8" (SINGLE DOOR)	E2	FGLS	PTD	-	CMST	PTD.	2/A9	1/A9	-	1	3	JAMB FOR 2x6 WALL - PROVIDE DOOR SWEEP AND SEALS
	100.2	101	4'-8"x 5'-0" (DOUBLE DOOR)	E5	PVC	PTD	-	CMST	PTD.	-	-	-		6	
	100.3	101	4'-8"x 5'-0" (DOUBLE DOOR)	E5	PVC	PTD	-	CMST	PTD.	-	-	-		6	
	201	201	6'-0"x 8'-0" (FRENCH DOOR)	E4	WD./CLAD	PTD	-	WD.	PTD.	2/A9	1/A9	1.1/A9		2	
	202	202	3'-0"x 6'-8" (SINGLE DOOR)	E2	FGLS	PTD	-	CMST	PTD.	2/A9	1/A9	-		3	JAMB FOR 2x6 WALL - PROVIDE DOOR SWEEP AND SEALS
	202.1	202	12'-0"x 8'-0" (6'-0" FRENCH DOOR W/ (2) 3'-0" SIDE LIGHTS)	E3	WD./CLAD	PTD	-	WD.	PTD.	2/A9	1/A9	1.1/A9		2	
	202.2	202	2'-6"x 6'-8" (SINGLE DOOR)	P5	WD	PTD	-	WD.	PTD.	5/A9	5/A9	-		5	
	202.3	202	3'-0"x 6'-8" (SINGLE DOOR)	E1	FGLS	PTD	-	CMST	PTD.	4/A9	4/A9	-		1	
	203	203	2'-8"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		5	
	203.1	203	2'-8"x 6'-8" (POCKET DOOR)	P2	WD	PTD	-	WD.	PTD.	5/A9	5/A9	-		EX	
	203.2	203	5'-0"x 8'-0" (FRENCH DOOR)	E4	WD./CLAD	PTD	-	WD.	PTD.	2/A9	1/A9	1.1/A9		2	
	203.3	203	5'-0"x 8'-0" (FRENCH DOOR)	E4	WD./CLAD	PTD	-	WD.	PTD.	2/A9	1/A9	1.1/A9		2	
	204	204	2'-8"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		5	
	204.1	204	6'-0"x 8'-0" (FRENCH DOOR)	E4	WD./CLAD	PTD	-	WD.	PTD.	2/A9	1/A9	1.1/A9		2	
	205	205	2'-0"x 6'-8" (POCKET DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		7	
	206	206	2'-4"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	STONE		5	
	206.1	206	2'-4"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	STONE		5	
	206.2	206	2'-0"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		7	
	207	207	2'-0"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		7	
	208	208	6'-0"x 6'-8" (DOUBLE DOOR)	P3	WD	PTD	-	WD.	PTD.	5/A9	5/A9	-		8	
	209	209	2'-8"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		5	
	209.1	209	4'-0"x 6'-8" (DOUBLE DOOR)	P3	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		7	
	210	210	2'-4"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	STONE		5	
	211	211	2'-8"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		5	
	211.1	211	4'-0"x 6'-8" (DOUBLE DOOR)	P3	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		1	
	212	212	2'-0"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	5/A9	5/A9	-		7	
	212.1	212	2'-0"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		7	
	213	213	2'-8"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	STONE		5	
	214	214	2'-4"x 6'-8" (SINGLE DOOR)	P1	WD	PTD	-	WD.	PTD.	4/A9	4/A9	STONE		5	
	215	215	EXISTING 5'-4"x 6'-8" (INT. FRENCH DOOR)	P4	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		5	REUSE EX. DOOR, FRAME KIT AND HARDWARE (BY OWNER)
	215.1	215	3'-4"x 6'-8" (DOUBLE DOOR)	P3	WD	PTD	-	WD.	PTD.	4/A9	4/A9	-		7	
	215.2	215	6'-0"x 8'-0" (FRENCH DOOR)	E4	WD./CLAD	PTD	-	WD.	PTD.	2/A9	1/A9	1.1/A9		2	

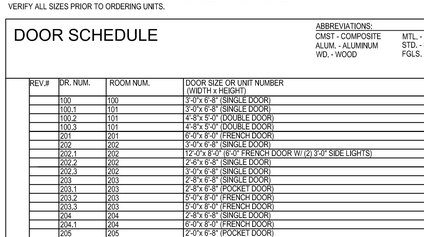
DOOR HARDWARE:
#1 - KEYED ENTRY LEVER SET - SINGLE CYLINDER - BRASS
#2 - PATIO DOOR HARDWARE
#3 - LEVER
#4 - RECESS HARDWARE FOR SLIDING DOORS
#5 - INTERIOR PRIVACY KNOB SET - BRASS
#6 - BARN DOOR PIN & LOCK
#7 - INTERIOR PASSAGE KNOB SET - BRASS
#8 - INTERIOR BI-FOLD KIT W/ DUMMY DOOR KNOB

* NOTE: DOOR SUPPLIER IS TO REVIEW ALL PLANS, WALL SECTIONS, ELEVATIONS & SCHEDULES. WINDOW & DOOR SUPPLIER IS TO REVIEW ALL ASPECTS OF DOOR SPECIFICATIONS & DOOR SUPPLIER IS TO PROVIDE SUBMITTALS FOR APPROVAL OF ALL FUNCTIONS WITH THE OWNER AND/OR GENERAL CONTRACTOR

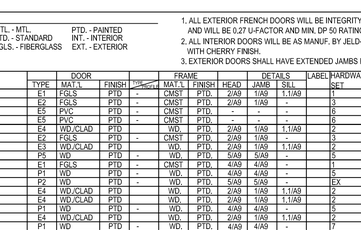
SUPPLIED ITEMS BEFORE PLACING DOOR ORDER.



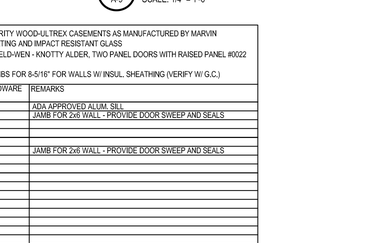
DOOR TYPES
SCALE: 1/4" = 1'-0"



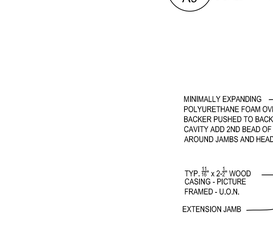
1 / A9 EXT. DOOR SILL DETAIL
SCALE: 1-1/2" = 1'-0"



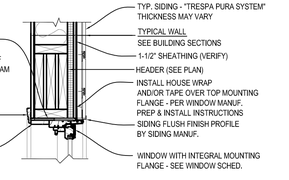
1.1 / A9 EXT. DOOR SILL DETAIL
SCALE: 1-1/2" = 1'-0"



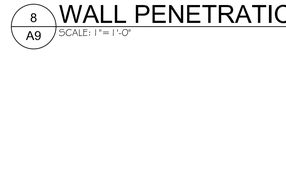
2 / A9 EXT. HEAD DETAIL
SCALE: 1-1/2" = 1'-0"



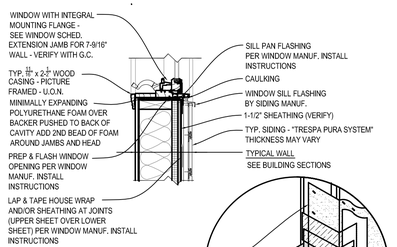
3 / A9 EXT. JAMB DETAIL
SCALE: 1-1/2" = 1'-0"



4 / A9 INT. JAMB DETAIL
SCALE: 1-1/2" = 1'-0" (HEAD SIM.)



5 / A9 INT. JAMB DETAIL
SCALE: 1-1/2" = 1'-0" (HEAD SIM.)

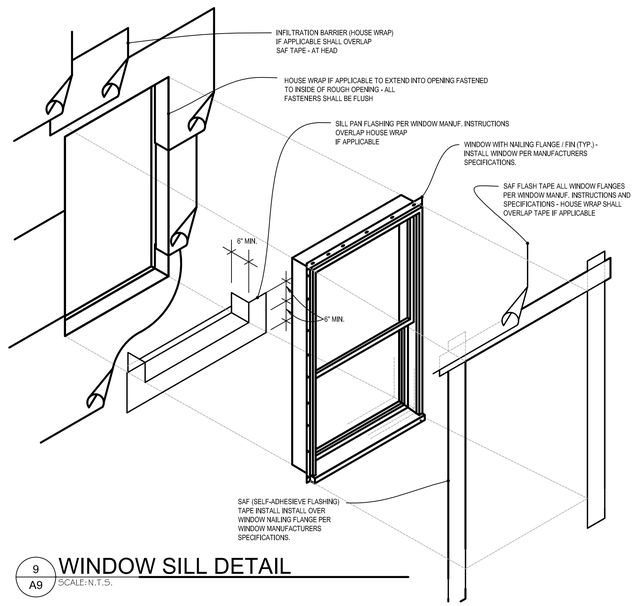


STEP #1 IF APPLICABLE - EXTEND HOUSE WRAP INTO OPENING FASTENED AS REQ'D
STEP #2 INSTALL SILL PAN FLASHING AT BASE OF WINDOW OPENING OVERLAPPING HOUSE WRAP PER WINDOW MANUF. INSTRUCTIONS
STEP #3 OVERLAP SILL PAN FLASHING AT JAMBS PER WINDOW MANUF. INSTRUCTIONS
STEP #4 USE SAF (SELF-ADHESIEVE FLASHING) TAPE OVER WINDOW FLANGES / FINS (NOT SHOWN) AND HOUSE WRAP PER WINDOW MANUF. INSTRUCTIONS

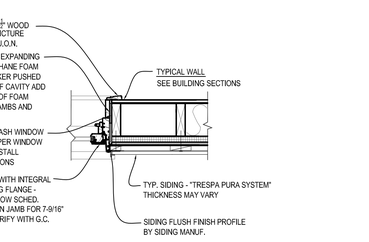
5 / A9 WINDOW SILL DETAIL
SCALE: 1" = 1'-0"

GENERAL WINDOW NOTE:
USE WINDOW MANUF. ROUGH OPENING - PREP AND FLASHING - MEMBRAN DRAINAGE SYSTEM AND UNIT INSTALL INSTRUCTIONS FOR ALL WINDOWS

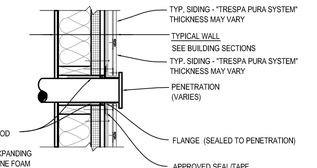
6 / A9 WINDOW HEAD DETAIL
SCALE: 1 - 1/2"= 1'-0"



9 / A9 WINDOW SILL DETAIL
SCALE: N.T.S.



7 / A9 WINDOW JAMB DETAIL
SCALE: 1" = 1'-0"



8 / A9 WALL PENETRATION DETAIL
SCALE: 1" = 1'-0"

Amaya Architects
American Institute of Architects
284 RACEBROOK RD. ORANGE, CT 06477
TEL (203) 795 5656
FAX (203) 799 3871

Sheet Title:
SCHEDULES & DETAILS

APPLICATION # 1588

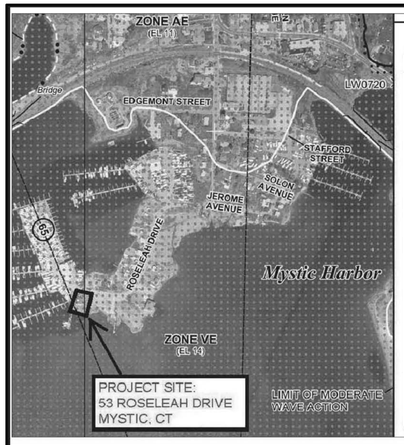
MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06355

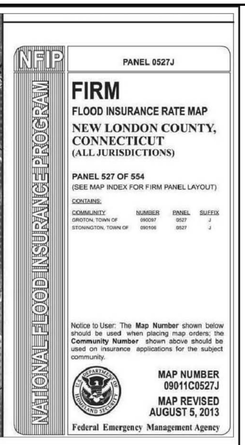
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

Date: 05/06/2018

Job Number: --
Drawn By: J.V.L.

Sheet Number:
A9





FEMA FLOOD MAP SCALE = NONE

APPLICABLE CODES:

1. 2015 INTERNATIONAL BUILDING CODE AND CT 2018 AMENDMENTS.
2. ASCE 07-10 MIN. DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES
3. FEMA - 257 - MITIGATION FLOOD & EROSION DAMAGE TO RESIDENTIAL BUILDINGS IN COASTAL AREAS.
4. FEMA - P-55 - COASTAL CONSTRUCTION MANUAL (4TH ED. - 2011)

BUILDING DESIGN DATA

GROUP R-3 FOR SINGLE FAMILY (2) STORY DWELLING
BUILDING CATEGORY: II
CONSTRUCTION TYPE: V
PROPOSED BUILDING HEIGHT (MEAN HT.) = 29.08' (30' MAX.)
CAM - ROOF RIDGE HEIGHT ABOVE BFE (PER ZR - 7.3.5) = 23.83' +/- (24' MAX.)
WIND SPEED - 140 ULTIMATE DESIGN WIND SPEED (PER CT 2018 IRC CODE - APPENIX V)
WIND IMPORTANCE FACTOR - (Iw)=1.40 - PER TABLE R301.2(3)
WIND EXPOSURE - "C" (HURRICANCE PRONE REGION; 600 FT OVER WATER - MYSTIC RIVER)
WIND-BORNE DEBRIS REGION - (SITE LOCATED SOUTH OF I-95 CORRIDOR) - PER CT 2018 IRC APPENDIX V
GROUND SNOW LOAD= 30 PSF DRIFT SNOW LOAD= 50 PSF @ 6.5' WIDE
LIVING AREA LOADING = 40 PSF
SLEEPING AREA LOADING = 40 PSF
ATTIC AREA LOADING = 20 PSF

FEMA - COASTAL FLOOD ZONE - FLOOD ZONE "VE":
REQUIRED: DFE = 14.00' x 1.25 (500-YEAR FLOOD ELEV. ADJUSTMENT) = 17.5' + 1'-0" (FREEBOARD) = 18.5' TOTAL
PROPOSED: DFE = 18.5' (TOP OF FOUNDATION / PIERS)

DESIGNED FOR 500-YEAR FLOOD BASED ON SHPO & NFIP REGULATORY REQUIREMENTS:
FLOOD PLAIN MANAGEMENT REGULATIONS BY LOCAL JURISDICTION AND PER
LATEST FIRM FLOOD MAPS & CONSENSUS STANDARDS

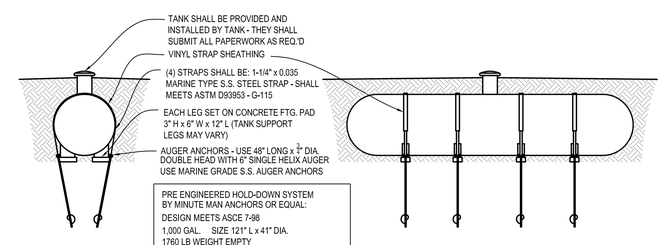
PER ZONING REG. SECTION 7.7.4.6
THE DESIGN AND METHODS OF CONSTRUCTION ARE CERTIFIED TO BE IN ACCORDANCE WITH
ACCEPTED STANDARDS OF PRACTICE TO MINIMIZE FLOODING AND FLOOD DAMAGE.

NOTES:

1. THIS SITE IS PRE-EXISTING NON-CONFORMING TO MC-80 ZONING REQUIREMENTS.
2. TEST PIT LOCATIONS PER MAP REFERENCE B.
3. CONTRACTOR SHALL CALL BEFORE YOU DIG 1-800-922-4455 PRIOR TO STARTING SITE WORK.
4. ALL UTILITIES TO THIS PROJECT SHALL BE INSTALLED UNDERGROUND U.O.N.,
5. ALL UNDERGROUND TANKS SHALL BE ANCHORED AGAINST BOUYANCY.
6. NEW GRAVITY SANITARY PIPING FROM HOUSE TO PUMP CHAMBER SHALL BE INSTALLED.
7. ALL SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFROM WITH TOWN OF STONINGTON WPCA REQUIREMENTS AND STANDARDS.
8. NO IMPORTED NON-STRUCTURAL GRAVEL FILL IS PROPOSED.
9. THERE WILL BE NO DRY ACCESS THE NEW RESIDENCE DURING A 100 YEAR FLOOD EVENT.
10. ROOF DRAIN DOWN SPOUTS SHALL DISCHARGE TOWARD EXISTING ONSITE BULKHEAD.

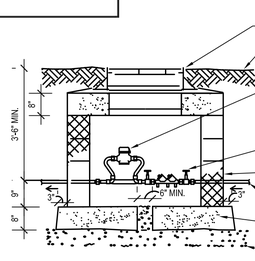
MAP REFERENCES:

A. BOUNDARY & TOPOGRAPHIC SURVEY, PROPERTY OF DAVID P. MADACSI, FOR PROPERTY LOCATED AT, 53 ROSELEAH DRIVE, MYSTIC-STONINGTON - COUNTY OF NEW LONDON - CONNECTICUT, DATED: SEPTEMBER 29, 2014, NO REVISIONS, SHEET NO. S-01, SHEET 1 OF 1, SCALE: 1"=10', BY: JAMES BERNARDO LAND SURVEYING, LLC, WATERFORD, CONNECTICUT.
B. EXISTING SITE CONDITIONS, PROPOSED HOUSE RECONSTRUCTION, IN A FEMA "VE" FLOOD HAZARD ZONE, PREPARED FOR PROPERTY OWNER, DAVID P. MADACSI, FOR PROPERTY LOCATED AT, 53 ROSELEAH DRIVE - MYSTIC - M175/BIL27, TOWN OF STONINGTON - NEW LONDON COUNTY - CONNECTICUT, DATED: SEPTEMBER 2014, REVISED THRU: 08.15.15, SHEET NO. S-01, SHEET 1 OF 2, SCALE: 1"=10', BY: THE WINTHROP GROUP, LEDYARD, CONNECTICUT.
C. SITE IMPROVEMENTS PLAN, PROPOSED HOUSE RECONSTRUCTION, IN A FEMA "VE" FLOOD HAZARD ZONE, PREPARED FOR PROPERTY OWNER, DAVID P. MADACSI, FOR PROPERTY LOCATED AT, 53 ROSELEAH DRIVE - MYSTIC - M175/BIL27, TOWN OF STONINGTON - NEW LONDON COUNTY - CONNECTICUT, DATED: SEPTEMBER 2014, REVISED THRU: 08.15.15, SHEET NO. S-02, SHEET 2 OF 2, SCALE: 1"=10', BY: THE WINTHROP GROUP, LEDYARD, CONNECTICUT.

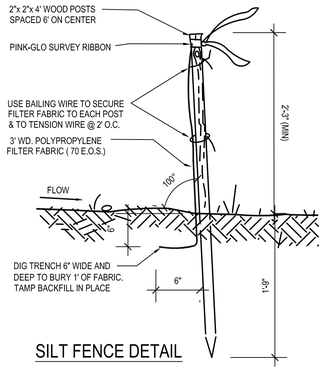


PRE ENGINEERED HOLD-DOWN SYSTEM
BY MINUTE MAN ANCHORS OR EQUAL:
DESIGN MEETS ASCE 7-98
1,000 GAL. SIZE: 121" L x 41" DIA.
1760 LB WEIGHT EMPTY
9110 LB BUOYANCY FORCE

1 / A3 UNDERGROUND LP-GAS TANK ANCHOR DETAIL
SCALE: 3/4" = 1'-0"



SECTION
METER PIT DETAIL



SILT FENCE DETAIL
N.T.S.

1 / C1 SITE PLAN
SCALE: 1"=10'

*CHANGE OF NON-CONFORMING COMMERCIAL BUILDING ZONE: MC-80 TO RM-15 PER (Z.R. 2.6.1.3) FLOOD ZONE: VE-14	MAX. ALLOWED / MIN. REQUIRED PER RM-15	EXISTING	PROPOSED UNDER RM-15
1. MIN. LOT AREA (Z.R. 5.1.1)	15,000 SF	13,500 +/- SF (NON-CONFORMING)	N/A
2. MIN. LOT WIDTH / FRONTAGE (Z.R. 5.1.1 FOR RESIDENTIAL)	100 FT	102 FT +/-	N/A
3. MIN. SETBACKS (Z.R. 5.1.1 FOR RESIDENTIAL)			
FRONT (STREET LINE)	30'	33.4'	30.5' +/-
LEFT SIDE YARD	10'	39.7'	13.2' +/-
RIGHT SIDE YARD	10'	17.9'	10.5' +/-
REAR YARD	40'	48.5'	47.6' +/-
4. MAX. ROOF HEIGHT (Z.R. 5.1.1 FOR RESIDENTIAL)	30'	23.8'	29.08'
5. BUILDING GROSS FLOOR AREA RATIO (G.F.A.) (Z.R. 5.1.1)	.20 (20%)	2,538 S.F. (18.7%)	2,700 S.F. (20%)
6. CAM - ROOF RIDGE HEIGHT ABOVE BFE (ZR - 7.3.5)	24'	14.8'	23.83' +/- (24' MAX.)
7. CAM - FLOOD ZONE SETBACKS (Z.R. 7.7.8.3.1)	100' ALLOWED FROM COASTAL JURISDICTION LINE (CJL)	39.7'	10.0'+/- PER VARIANCE

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Sheet Title:
PROPOSED SITE PLAN

APPLICATION # 1588

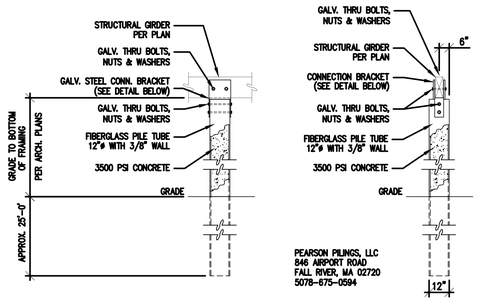
MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06515

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

Date: 08/06/2018

Job Number: --
Drawn By: J.V.L.

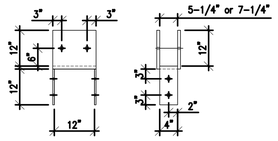
Sheet Number:
C-1



A / F-1 CONC. FILLED-FIBERGLASS PILE DETAIL

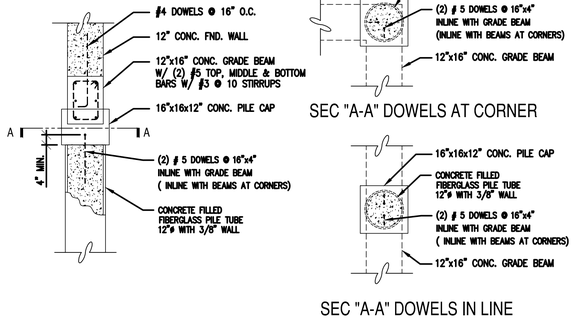
SCALE: 1/4"=1'-0"

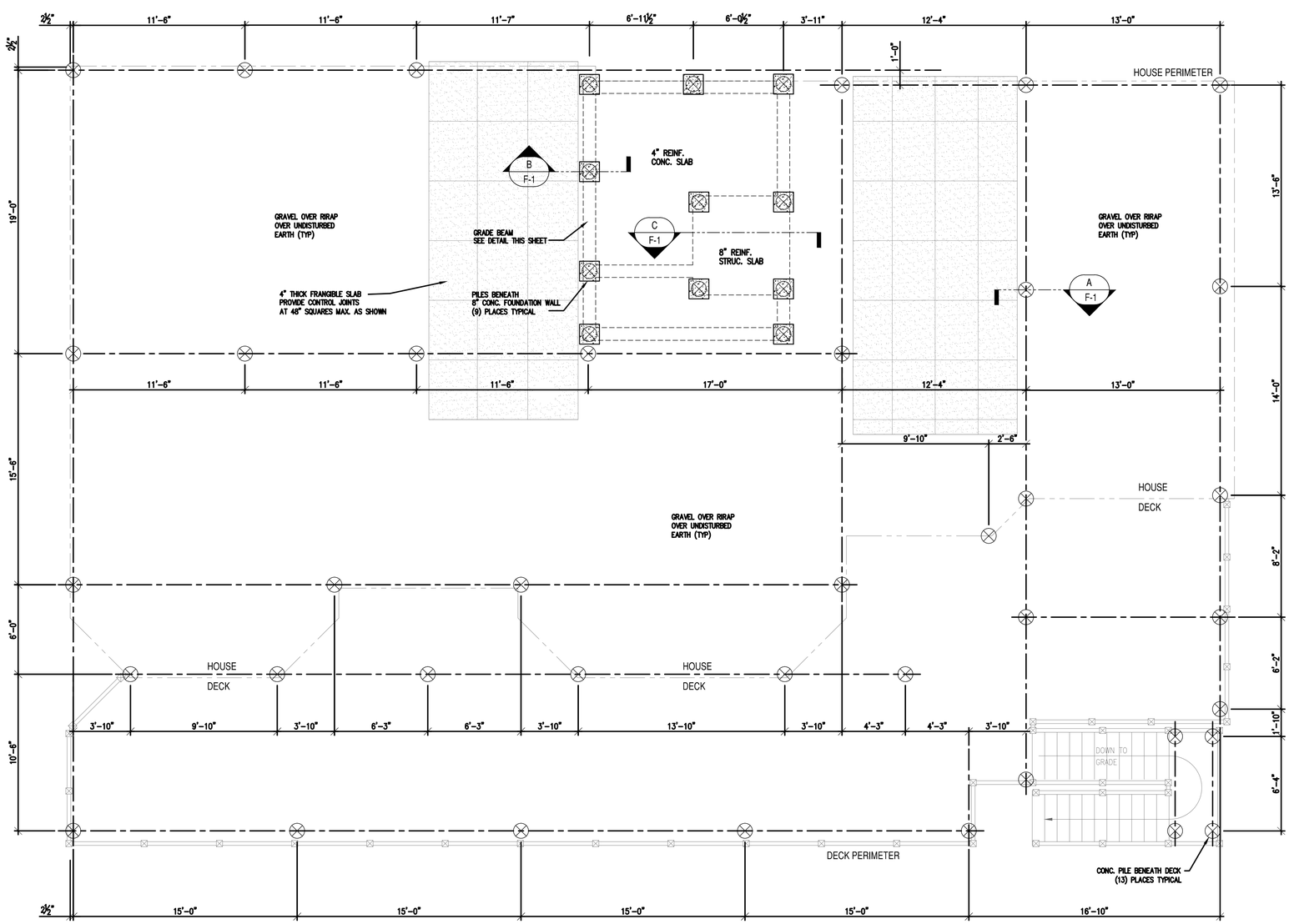
(45) PLACES TOTAL
EACH PILE TO BE APPROX. 20 TON CAPACITY



GALV. STEEL CONNECTIONBRACKET

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



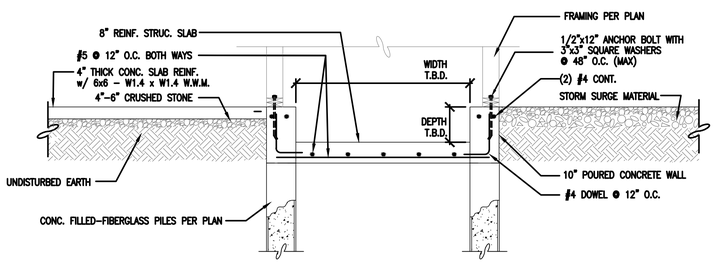


CONC. / PILE FOUNDATION PLAN

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

B / F-1 GRADE BEAM & FND. WALL DETAIL

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



C / F-1 ELEVATOR PIT / STAIRWELL DETAIL

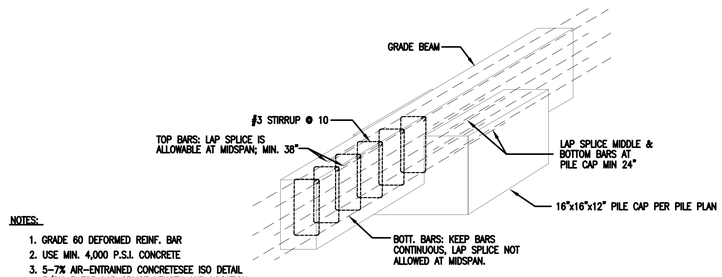
SCALE: 1/2"=1'-0"

NOTES

1.) STRUCTURAL INSPECTION MUST BE CONDUCTED BY ATLANTIC CONSULTING & ENGINEERING. 525 JOHN STREET, BRIDGEPORT, CT - 203-336-4422 OTHERWISE ATLANTIC CONSULTING & ENGINEERING IS RELEASED OF ANY LIABILITY RELATED TO THE INSTALLATION.

2.) ALL DIMENSIONS ARE APPROXIMATE AND SHOULD BE COORDINATED WITH THE ARCHITECTURAL PLANS.

3.) GRAVEL OVER RIP-RAP OVER UNDISTURBED EARTH SHALL BE 8" THICK LAYER OF 1-1/2" TO 3" CRUSHED STONE TOPPED WITH 3" THICK LAYER OF 3/4" CRUSHED STONE (STORM SURGE MATERIAL UNDER HOUSE IN AREAS OTHER THAN AT THE CONCRETE SLAB AREAS)



NOTES:

1. GRADE 60 DEFORMED REINF. BAR
2. USE MIN. 4,000 P.S.I. CONCRETE
3. 5-7% AIR-ENTRAINED CONCRETESEE ISO DETAIL 3/SK-3 FOR LAP SPLICE LENGTH AND LOCATION.
4. COMPACT BASES TO MIN 95% OPTIMUM DRY DENSITY.

TYP. REINF PLACEMENT & BAR SPLICE DETAIL

PILE CAP & GRADE BEAM SECTION

SCALE: N.T.S.

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Seal:

Sheet Title:
FOUNDATION PLAN

APPLICATION # 1588

MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06515

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

Date: 15th of March 2019

Job Number: 17-3117
Drawn By: TJP

Sheet Number:
F-1

COLUMN SCHEDULE

MARK	PLY	SIZE	COMMENTS
P1	1	3½"x7" PSL	-
P2	1	3½"x7" PSL	-
P3	1	3¼"x3¼" PSL	-
P4	1	3½"x3¼" PSL	-
P5	1	3½"x3½" PSL	-
P6	4	3½"x6" SPF	SEE NOTES
P7	4	3½"x6" SPF	SEE NOTES
P8	3	3½"x4½" SPF	SEE NOTES
P9	3	3½"x4½" SPF	SEE NOTES
P10	1	6"x6" SPF	PRESSURE TREATED
P11	1	4"x4" SPF	PRESSURE TREATED
SC1	–	4"ø HSS	¼" WALL
SC2	–	3"x3" HSS	
SC3	–	3½"x3½" HSS	
SC4	–	4"x4" HSS	¼" WALL
SC5	–	5"x5" HSS	
SC6	–	6"x6" HSS	
SC7	–	7"x7" HSS	
SC8	–	12"x12" HSS	½" WALL THICKNESS

PX–XX OR PX–XX INDICATES STEEL HSS

PX–XX INDICATES WOOD POST

MARK
POST DIRECTION — PA = ABOVE, PB = BELOW, PAB = ABOVE & BELOW
LOCATION (T OR B), WHEN NOTED
METAL FRAMING CONNECTOR, WHEN NOTED

NOTES:
1. WOOD POSTS NOT INDICATED ON PLAN TO BE MIN: 4X4 SPF#2 OR EQUIVALENT
2. BUILT UP POSTS SHALL BE MIN 16d @ 12"oc STAG
3. RECOMMENDED COLUMNS ARE SUBJECT TO REPLACEMENT WITH EQUAL.
4. ALL LUMBER EXPOSED TO THE ELEMENTS MUST BE PRESSURE TREATED.

PSL = PARALLEL STRAND LUMBER – USE 2.0E
SPF = SPRUCE PINE FIR – USE MIN. #2 LUMBER
HSS = HOLLOW STRUCTURAL SHAPE

JOIST / RAFTER DIRECTION

LVL GIRDER / HEADER

FLUSH CONNECTION

LVL CONNECTOR SCHEDULE:

(1) LVL — SIMPSON HGUS1.75 (OR EQUIV.)

(2) LVL's — SIMPSON HGUS3.5 (OR EQUIV.)

(3) LVL's — SIMPSON HGUS5.25 (OR EQUIV.)

(4) LVL's — SIMPSON HHGUT7.00–SDS (OR EQUIV.)

NOTES:
1. METAL FRAMING CONNECTORS TO BE SIMPSON–STRONG TIE OR EQUIV.
2. SEE TYPICAL WOOD DETAILS ON PLANS FOR POST CONNECTION DETAILS.
3. INSTALL METAL FRAMING CONNECTORS PER MANUFACTURERS RECOMMENDATION

HEADER SCHEDULE

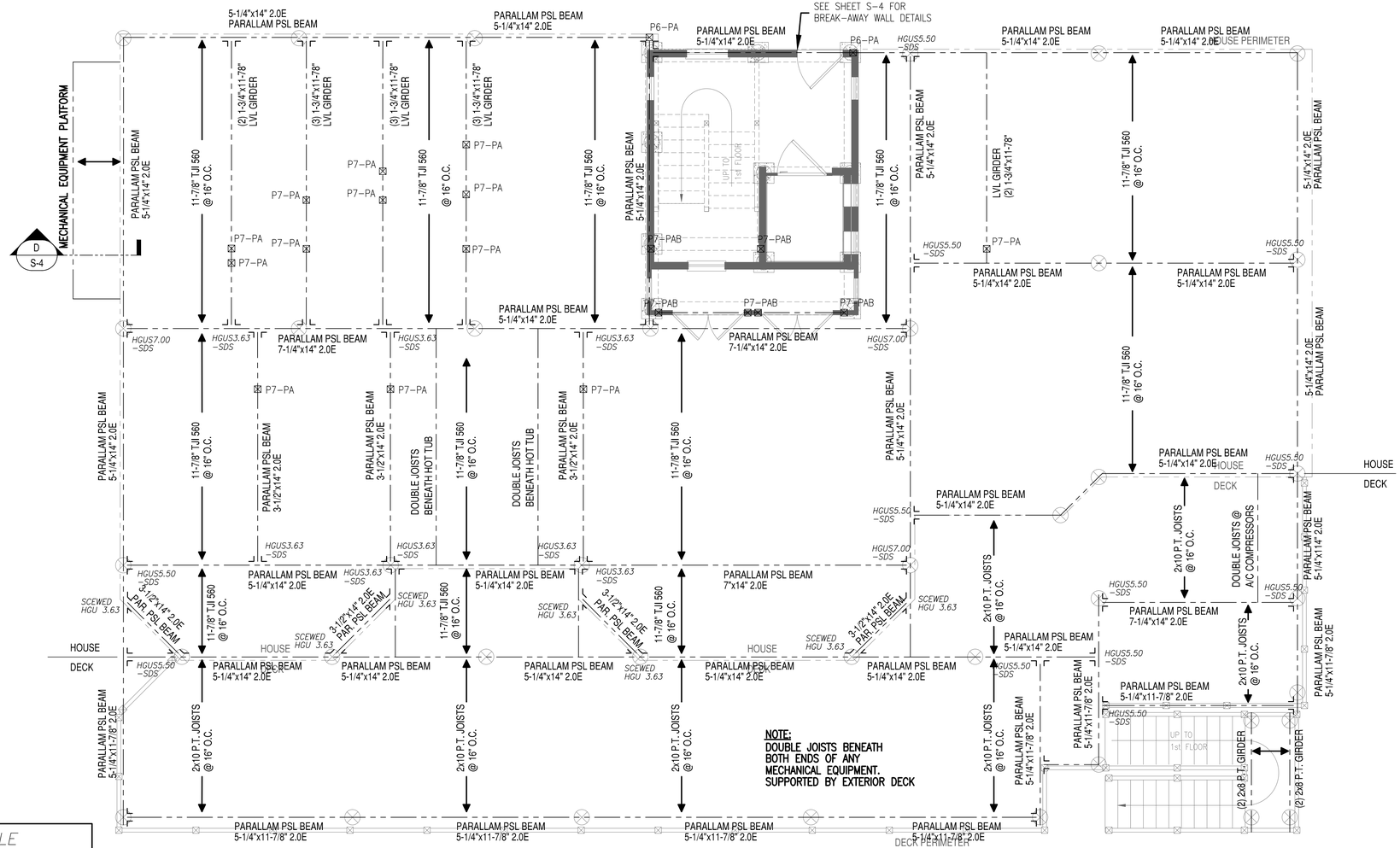
ALL EXTERIOR HEADERS SHALL BE DBL 2x10 #SPF (UNO ON PLANS)
SILL HEIGHTS TO BE NOT MORE THAN 44" ABOVE SUB–FLOOR

ALL INTERIOR LOAD BEARING HEADERS SHALL BE AS FOLLOWS: (UNO ON PLANS)

CLEAR SPAN	PLY	MEMBER SIZE	# OF JACK STUDS	# OF KING STUDS
0' TO 3'	2	2x6	1	1
3' TO 6'	2	2x8	1	1
6' TO 8'	2	2x10	2	1
8' OR +	1–3/4"xAS SPECIFIED LVL			

ALL INTERIOR NON–LOAD BEARING TO BE:
2–2x4 – OPN'GS UP TO 3'–4"
2–2x6 – OPN'GS OVER 3'–4"

LVL – 1¾" MICROLLAM 1.9E (SEE PLANS FOR SIZES)
SPF – SPRUCE_PINE_FIR #2 (OR BETTER)
TJI – 9½" OR 11⅞" 110, 230, 360, 560 1.8E
SEE PLANS FOR SIZE AND SERIES USED
CRITERIA:
MAXIMUM DEFLECTION = L/380
LL = 40 AND DL = 15



1st FLOOR FRAMING PLAN (Over Foundation)

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

NOTE:
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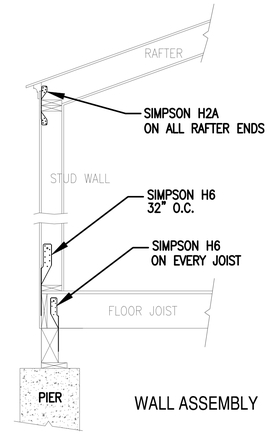

WALL ASSEMBLY

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Seal:

Sheet Title:
MAIN FLOOR FRAMING PLAN

APPLICATION # 1588

MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06515

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

Date: 15th of March 2019

Job Number: 17-3117
Drawn By: TJP

Sheet Number:
S-1

COLUMN SCHEDULE

MARK	PLY	SIZE	COMMENTS
P1	1	5½"x7" PSL	-
P2	1	3½"x7" PSL	-
P3	1	3¼"x3¼" PSL	-
P4	1	3½"x3¼" PSL	-
P5	1	3½"x3½" PSL	-
P6	4	5½"x6" SPF	SEE NOTES
P7	4	3½"x6" SPF	SEE NOTES
P8	3	5½"x4½" SPF	SEE NOTES
P9	3	3½"x4½" SPF	SEE NOTES
P10	1	6"x6" SPF	PRESSURE TREATED
P11	1	4"x4" SPF	PRESSURE TREATED
SC1	–	4"ø HSS	¼" WALL
SC2	–	3"x3" HSS	
SC3	–	3½"x3½" HSS	
SC4	–	4"x4" HSS	¼" WALL
SC5	–	5"x5" HSS	
SC6	–	6"x6" HSS	
SC7	–	7"x7" HSS	
SC8	–	12"x12" HSS	½" WALL THICKNESS

PX–XX OR PX–XX INDICATES STEEL HSS

PX–XX INDICATES WOOD POST

(PX)–(XX) (XX)–(XX)
- MARK
- POST DIRECTION — PA = ABOVE, PB = BELOW, PAB = ABOVE & BELOW
- LOCATION (T OR B), WHEN NOTED
- METAL FRAMING CONNECTOR, WHEN NOTED

NOTES:
1. WOOD POSTS NOT INDICATED ON PLAN TO BE MIN: 4X4 SPF#2 OR EQUIVALENT
2. BUILT UP POSTS SHALL BE MIN 16d @ 12"oc STAG
3. RECOMMENDED COLUMNS ARE SUBJECT TO REPLACEMENT WITH EQUAL.
4. ALL LUMBER EXPOSED TO THE ELEMENTS MUST BE PRESSURE TREATED.

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SPF = SPRUCE PINE FIR – USE MIN. #2 LUMBER
HSS = HOLLOW STRUCTURAL SHAPE

JOIST / RAFTER DIRECTION

LVL GIRDER / HEADER

FLUSH CONNECTION

LVL CONNECTOR SCHEDULE:

(1) LVL — SIMPSON HGUS1.75 (OR EQUIV.)

(2) LVL's — SIMPSON HGUS3.5 (OR EQUIV.)

(3) LVL's — SIMPSON HGUS5.25 (OR EQUIV.)

(4) LVL's — SIMPSON HHGU7.00–SDS (OR EQUIV.)

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LVL – 1¾" MICROLLAM 1.9E (SEE PLANS FOR SIZES)
SPF – SPRUCE_PINE_FIR #2 (OR BETTER)
TJI – 9½" OR 11⅞" 110, 230, 360, 560 1.8E
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CRITERIA:
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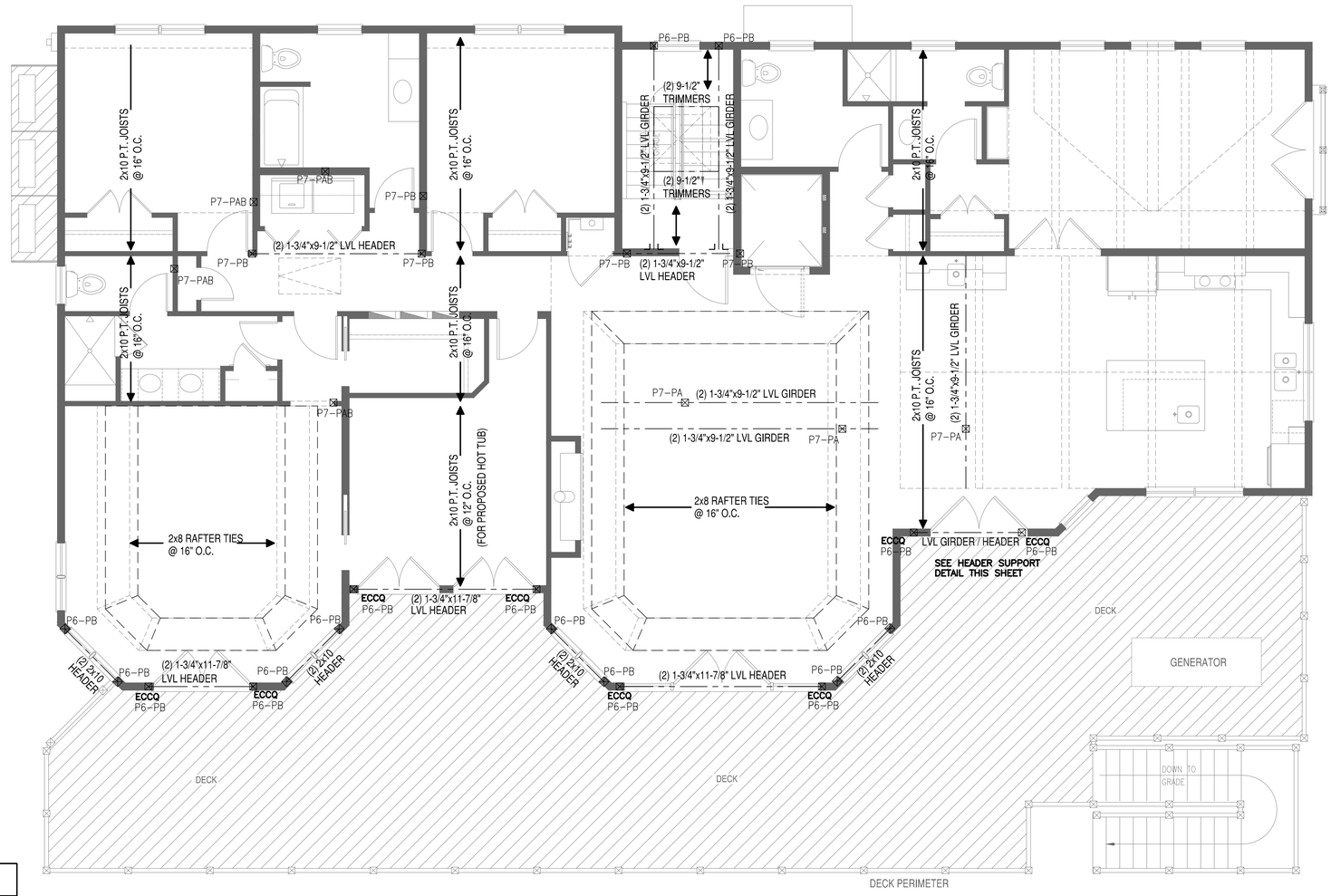
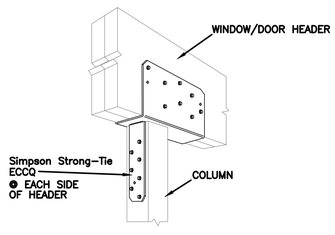
LL = 40 AND DL = 15





HEADER SUPPORT DETAIL

ATTIC FRAMING PLAN

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

NOTE:

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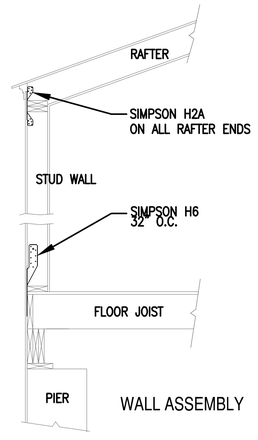

WALL ASSEMBLY

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Seal:

Sheet Title:
ATTIC FRAMING PLAN

APPLICATION # 1588

MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06515

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

Date: 15th of March 2019

Job Number: 17-3117
Drawn By: TJP

Sheet Number:
S-2

COLUMN SCHEDULE			
MARK	PLY	SIZE	COMMENTS
P1	1	5½"x7" PSL	-
P2	1	3½"x7" PSL	-
P3	1	5¼"x5¼" PSL	-
P4	1	3½"x5¼" PSL	-
P5	1	3½"x3½" PSL	-
P6	4	5½"x6" SPF	SEE NOTES
P7	4	3½"x6" SPF	SEE NOTES
P8	3	5½"x4½" SPF	SEE NOTES
P9	3	3½"x4½" SPF	SEE NOTES
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P11	1	4"x4" SPF	PRESSURE TREATED
SC1	–	4"ø HSS	¼" WALL
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SC4	–	4"x4" HSS	¼" WALL
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PX–XX OR PX–XX INDICATES STEEL HSS

PX–XX INDICATES WOOD POST

(PX)–(XX) MARK; POST DIRECTION: PA = ABOVE, PB = BELOW, PAB = ABOVE & BELOW

(XX)–(XX) LOCATION (T OR B), WHEN NOTED; METAL FRAMING CONNECTOR, WHEN NOTED

NOTES:
1. WOOD POSTS NOT INDICATED ON PLAN TO BE MIN: 4X4 SPF#2 OR EQUIVALENT
2. BUILT UP POSTS SHALL BE MIN 16d @ 12"oc STAG
3. RECOMMENDED COLUMNS ARE SUBJECT TO REPLACEMENT WITH EQUAL.
4. ALL LUMBER EXPOSED TO THE ELEMENTS MUST BE PRESSURE TREATED.

PSL = PARALLEL STRAND LUMBER – USE 2.0E
SPF = SPRUCE PINE FIR – USE MIN. #2 LUMBER
HSS = HOLLOW STRUCTURAL SHAPE

JOIST / RAFTER DIRECTION

LVL GIRDER / HEADER

FLUSH CONNECTION

LVL CONNECTOR SCHEDULE:

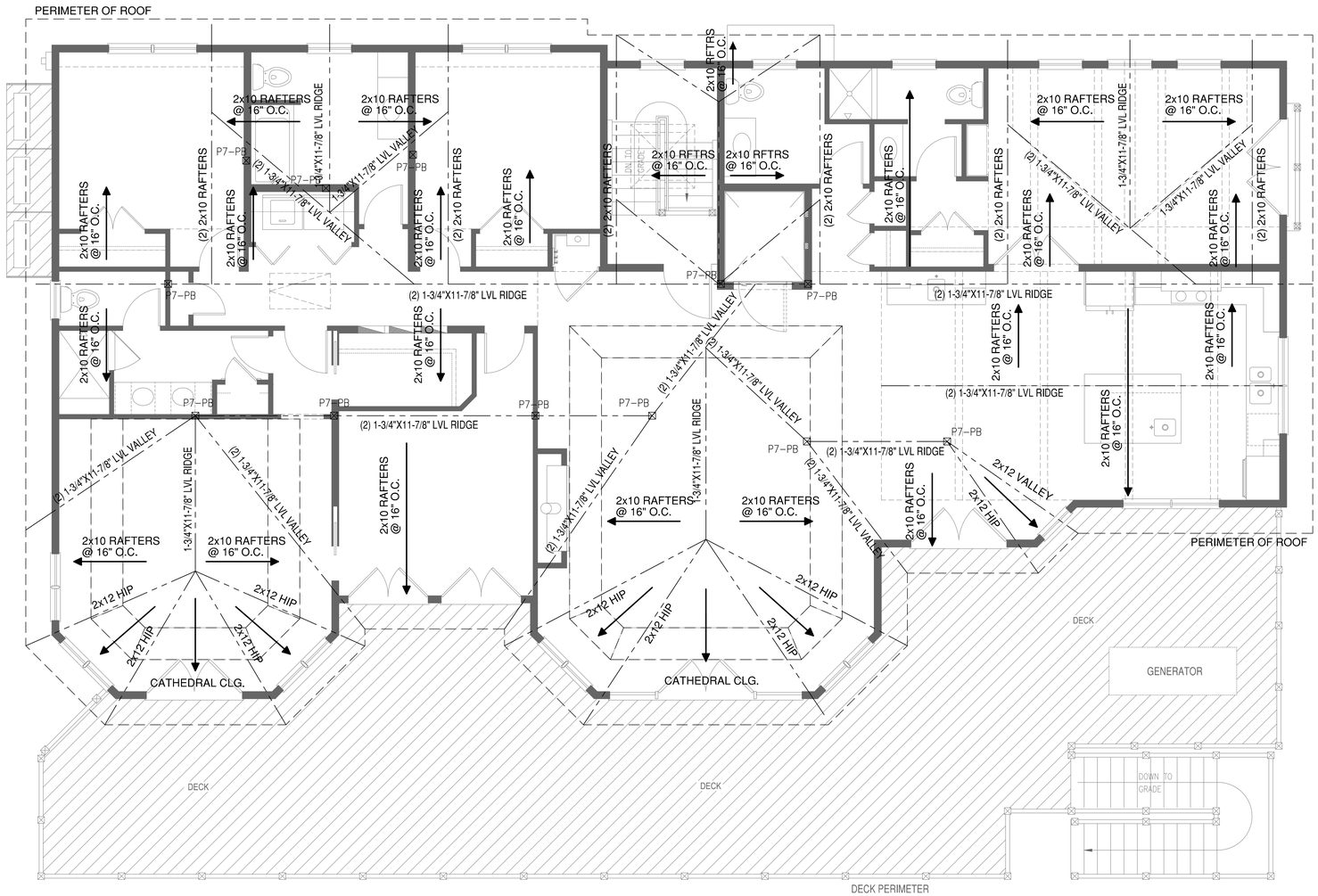
(1) LVL — SIMPSON HGUS1.75 (OR EQUIV.)

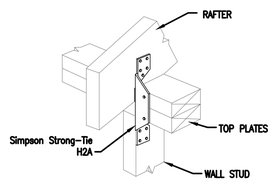
(2) LVL's — SIMPSON HGUS3.5 (OR EQUIV.)

(3) LVL's — SIMPSON HGUS5.25 (OR EQUIV.)

(4) LVL's — SIMPSON HHGU7.00–SDS (OR EQUIV.)

NOTES:
1. METAL FRAMING CONNECTORS TO BE SIMPSON–STRONG TIE OR EQUIV.
2. SEE TYPICAL WOOD DETAILS ON PLANS FOR POST CONNECTION DETAILS.
3. INSTALL METAL FRAMING CONNECTORS PER MANUFACTURERS RECOMMENDATION





STUD WALL TO RAFTER HOLD DOWN

ROOF FRAMING PLAN

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

NOTE:

STRUCTURAL INSPECTION MUST BE CONDUCTED BY ATLANTIC CONSULTING & ENGINEERING. 525 JOHN STREET, BRIDGEPORT, CT - 203-336-4422 OTHERWISE ATLANTIC CONSULTING & ENGINEERING IS RELEASED OF ANY LIABILITY RELATED TO THE INSTALLATION.

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Seal:

Sheet Title: ROOF FRAMING PLAN

APPLICATION # 1588

MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06515

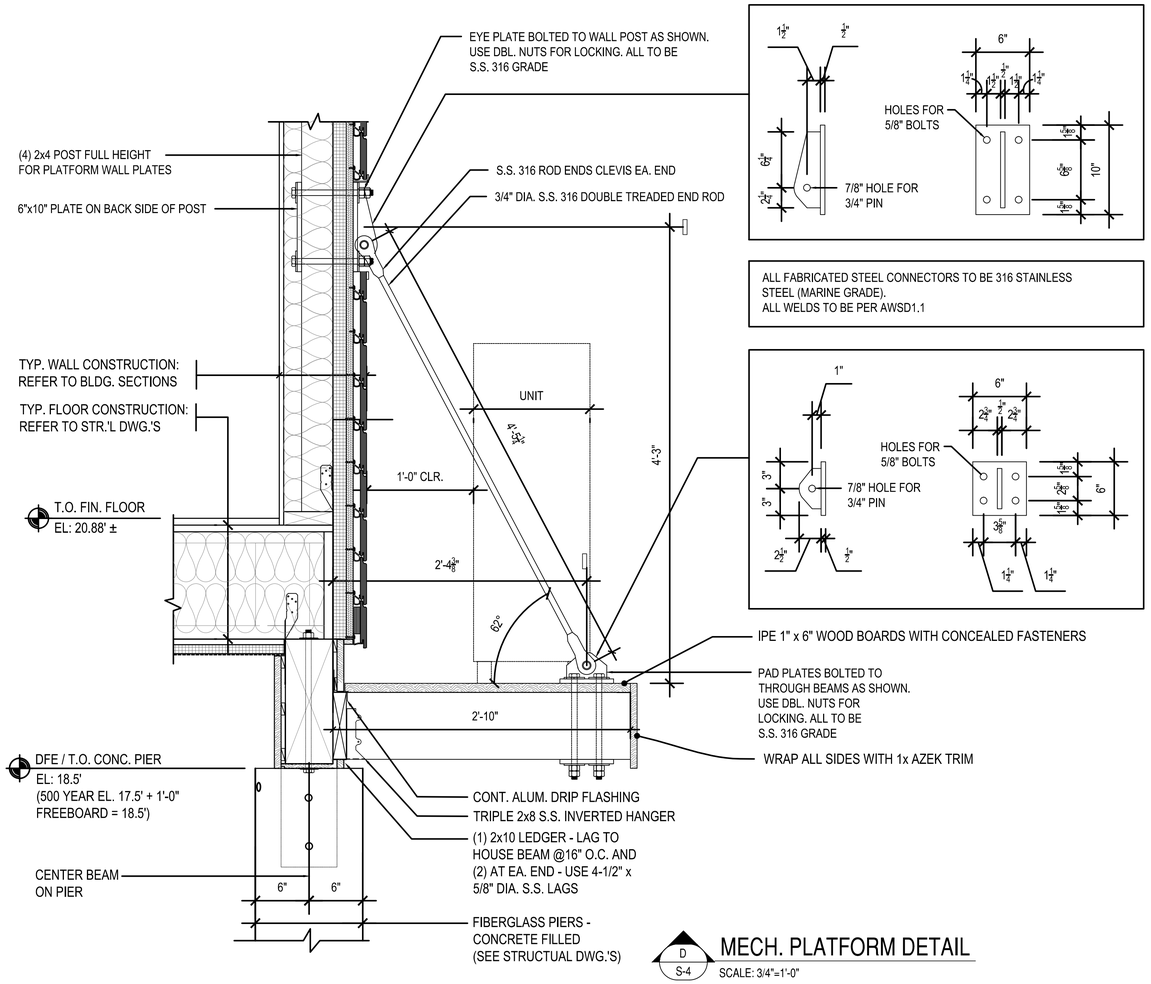
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

Date: 15th of March 2019

Job Number: 17-3117

Drawn By: TJP

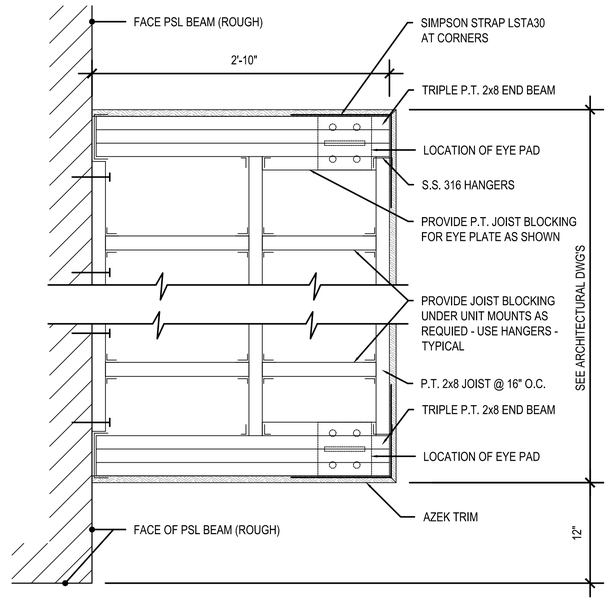
Sheet Number: S-3



D S-4

MECH. PLATFORM DETAIL

SCALE: 3/4"=1'-0"



PLATFORM PLAN

SCALE: 3/4"=1'-0"

TABLE 1a
TOTAL REQUIRED NUMBER OF GALVANIZED COMMON NAILS (DIVIDED EQUALLY BETWEEN TOP AND BOTTOM) WOOD FRAMED BREAKAWAY WALL CONFIGURATIONS WITH 8–FOOT PILE SPACING.

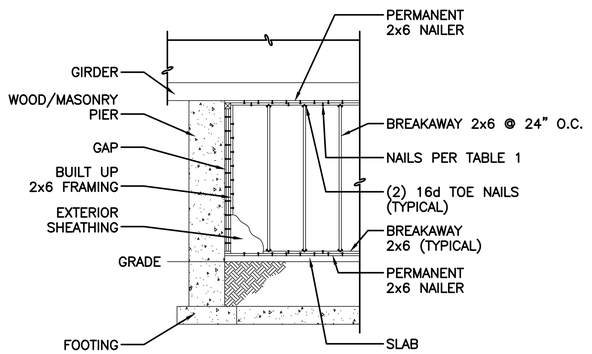
BREAKAWAY WALL HT. (Feet)	6		7		8		9	
NAIL SIZE	8d	10d	8d	10d	8d	10d	8d	10d
NAILS REQUIRED	18	12	22	14	24	16	28	18

TABLE 1b
TOTAL REQUIRED NUMBER OF GALVANIZED COMMON NAILS (DIVIDED EQUALLY BETWEEN TOP AND BOTTOM) WOOD FRAMED BREAKAWAY WALL CONFIGURATIONS WITH 10–FOOT PILE SPACING.

BREAKAWAY WALL HT. (Feet)	6		7		8		9	
NAIL SIZE	8d	10d	8d	10d	8d	10d	8d	10d
NAILS REQUIRED	24	16	28	18	32	20	34	24

TABLE 1c
TOTAL REQUIRED NUMBER OF GALVANIZED COMMON NAILS (DIVIDED EQUALLY BETWEEN TOP AND BOTTOM) WOOD FRAMED BREAKAWAY WALL CONFIGURATIONS WITH 12–FOOT PILE SPACING.

BREAKAWAY WALL HT. (Feet)	6		7		8		9	
NAIL SIZE	8d	10d	8d	10d	8d	10d	8d	10d
NAILS REQUIRED	28	18	32	22	38	24	42	28



WOOD FRAMED BREAKAWAY WALL DETAIL

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

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Sheet Title:
MECH. PLATFORM & BREAK-AWAY WALL DETAILS

APPLICATION # 1588

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Mystic, CT 06515

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S-4

DESCRIPTION OF SHEARWALL ASSEMBLIES

TYPE 1 SHEARWALL ASSEMBLY (340 PLF) AS FOLLOWS:

FRAMING LUMBER: DF SOUTH; HEM-FIR OR SPRUCE-PINE-FIR
SPECIFIC GRAVITY (0.50>G>0.42)
7/16" STRUCTUAL SHEATHING
PANEL EDGE NAILING: 8d COMMON @ 6" O.C.
SHEAR CAPACITY FOR ABOVE SHEATHING ASSEMBLY = 240 PLF

1/2" GYPSUM BOARD 4'x8' BLOCKED; 11 GA x 1.3/4"LONG NAILS WITH 7/16" HEAD AND 7" O.C. PANEL EDGE NAILING.
SHEAR CAPACITY FOR ABOVE SHEATHING ASSEMBLY = 100 PLF

COMBINED SHEAR CAPACITY = 240 + 100 = 340 PLF

TYPE 2 SHEARWALL ASSEMBLY (450 PLF) AS FOLLOWS:

FRAMING LUMBER: DF SOUTH; HEM-FIR OR SPRUCE-PINE-FIR
SPECIFIC GRAVITY (0.50>G>0.42)
7/16" STRUCTUAL SHEATHING
PANEL EDGE NAILING: 8d COMMON @ 4" O.C.
SHEAR CAPACITY FOR ABOVE SHEATHING ASSEMBLY = 350 PLF

1/2" GYPSUM BOARD 4'x8' BLOCKED; 11 GA x 1.3/4"LONG NAILS WITH 7/16" HEAD AND 7" O.C. PANEL EDGE NAILING.
SHEAR CAPACITY FOR ABOVE SHEATHING ASSEMBLY = 100 PLF

COMBINED SHEAR CAPACITY = 350 + 100 = 450 PLF

TYPE 3 SHEARWALL ASSEMBLY (605 PLF) AS FOLLOWS:

FRAMING LUMBER: DF SOUTH; HEM-FIR OR SPRUCE-PINE-FIR
SPECIFIC GRAVITY (0.50>G>0.42)
7/16" STRUCTUAL 1 SHEATHING
PANEL EDGE NAILING: 8d COMMON @ 3" O.C.
SHEAR CAPACITY FOR ABOVE SHEATHING ASSEMBLY = 505 PLF

1/2" GYPSUM BOARD 4'x8' BLOCKED; 11 GA x 1.3/4"LONG NAILS WITH 7/16" HEAD AND 7" O.C. PANEL EDGE NAILING.
SHEAR CAPACITY FOR ABOVE SHEATHING ASSEMBLY = 100 PLF

COMBINED SHEAR CAPACITY = 505 + 100 = 605 PLF

TYPE 4 SHEARWALL ASSEMBLY (770 PLF) AS FOLLOWS:

FRAMING LUMBER: DF SOUTH; HEM-FIR OR SPRUCE-PINE-FIR
SPECIFIC GRAVITY (0.50>G>0.42)
7/16" STRUCTUAL 1 SHEATHING
PANEL EDGE NAILING: 8d COMMON @ 2" O.C. (STAGGERED)
SHEAR CAPACITY FOR ABOVE SHEATHING ASSEMBLY = 670 PLF

1/2" GYPSUM BOARD 4'x8' BLOCKED; 11 GA x 1.3/4"LONG NAILS WITH 7/16" HEAD AND 7" O.C. PANEL EDGE NAILING.
SHEAR CAPACITY FOR ABOVE SHEATHING ASSEMBLY = 100 PLF

COMBINED SHEAR CAPACITY = 670 + 100 = 770 PLF

USE THESE SHEARWALL ASSEMBLY DESCRIPTIONS TO CONSTRUCT THE EXTERIOR WALLS WITH THE PROPER SHEATHING AND NAILING TO ACHIEVE THE REQUIRED ALLOWABLE SHEARWALL LOADS.

DESIGN WIND PRESSURE COMPONENTS (ASCE 7-10)

BUILDING HEIGHT	= 32.0 ft
ROOF ANGLE	= 26.0 deg
BASIC WIND SPEED – (Coastal)	= 110.0 mph
CATEGORY OF TERRAIN	= ZONE "C" FLAT AREAS WITH OBSTRUCTIONS BELOW THIRTY FEET IN HEIGHT.
EXPOSURE CATEGORY	= (.002046)
DESIGN WIND PRESSURE	= (26 LBS. PER S/F)

LOCATION	Ps30 (psf)	I	ADJUSTMENT FACTOR	ENDING P (psf)
ZONE A	21.60	1.00	1.00	21.60
ZONE B	14.80	1.00	1.00	14.80
ZONE C	17.20	1.00	1.00	17.20
ZONE D	11.80	1.00	1.00	11.80
ZONE E	1.70	1.00	1.00	10.00
ZONE F	-13.10	1.00	1.00	-13.10
ZONE G	0.60	1.00	1.00	10.00
ZONE H	-11.30	1.00	1.00	-11.30
Exh	-7.60	1.00	1.00	-10.00
Goh	-8.70	1.00	1.00	-10.00

STRUCTURE WINDLOADS – 1st FLOOR

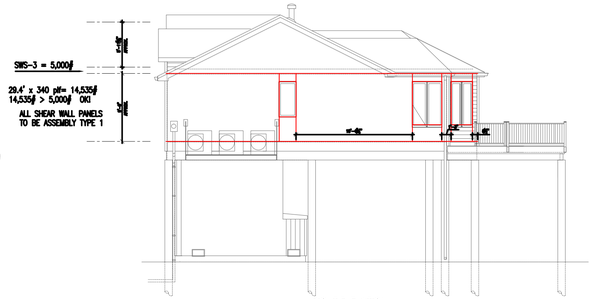
SHEARWALL SWS-1
17.20 psf x 9.0' (WALL HEIGHT) = 154.8 plf
154.8 plf x 51.2' (WALL LENGTH) = 7,925#

SHEARWALL SWS-2
17.20 psf x 9.0' (WALL HEIGHT) = 154.8 plf
154.8 plf x 24.6' (WALL LENGTH) = 3,808#

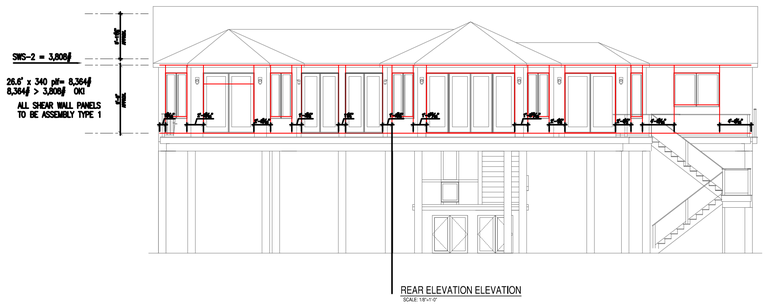
SHEARWALL SWS-3
17.20 psf x 9.0' (WALL HEIGHT) = 154.8 plf
154.8 plf x 32.3' (WALL LENGTH) = 5,000#

SHEARWALL SWS-14
17.20 psf x 9.0' (WALL HEIGHT) = 154.8 plf
154.8 plf x 24.6' (WALL LENGTH) = 3,808#

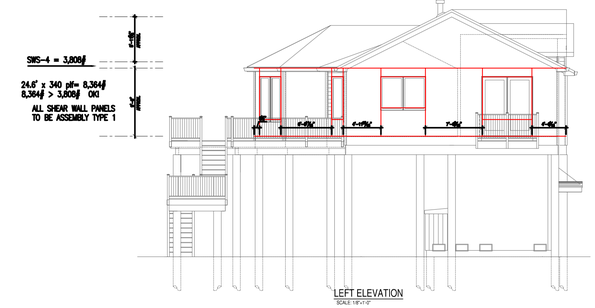
FRONT ELEVATION
SCALE: 1/8"=1'-0"



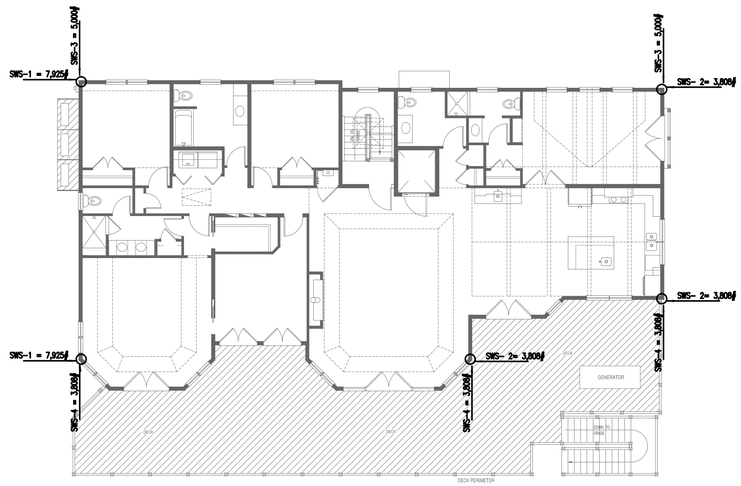
RIGHT ELEVATION
SCALE: 1/8"=1'-0"



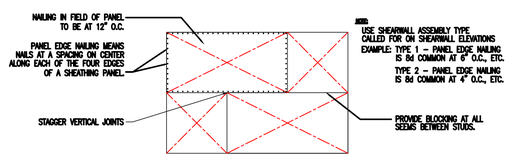
REAR ELEVATION ELEVATION
SCALE: 1/8"=1'-0"



LEFT ELEVATION
SCALE: 1/8"=1'-0"



1st FLOOR PLAN



NAILING PATTERNS FOR BRACEWALL & ROOF SHEATHING
SCALE: N.T.S.

HIGH WIND NAILING PATTERN FOR ROOF SHINGLES
SCALE: N.T.S.

PERFORATED BRACE WALL DETAIL

SCALE: 1/8"=1'-0'

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NRACE WALL DETAILS

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S-5

S T R U C T U R A L N O T E S

d. ALL FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. BEARING CAPACITY OF 3,000 LBS. IS ESTIMATED. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY A QUALIFIED GEOTECHNICAL ENGINEER FROM ALTLANTIC CONSULTING ENGINEERING (203) 336-4422 PRIOR TO PLACING FOUNDATIONS.

e. CONCRETE FOR FOUNDATIONS SHALL BE PLACED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.

f. ALL FOUNDATIONS SUSCEPTIBLE TO FROST SHALL BEAR A MINIMUM OF 42 INCHES BELOW GRADE. IN CASE OF CONFLICT, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT.

g. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.

h. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL, UNLESS NDICATED OTHERWISE IN THE GEOTECHNICAL REPORT.

i. NEW FOOTING BEARING ELEVATIONS ARE TO MATCH ADJACENT EXISTING FOOTING BEARING ELEVATIONS WHERE APPLICABLE UNLESS INDICATED OTHERWISE ON PLANS.

j. PROVIDE CONTINUOUS WATERSTOP AT ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN ALL ELEVATOR PIT AND OTHER PIT WALLS.

k. ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR CONTRACTOR'S/ ENGINEERING SEAL AND SIGNATURE.

l. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES, CURBS, STREETS, ETC. FROM DAMAGE BY CONSTRUCTION EQUIPMENT.

2. BACKFILL:

a. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF BANK RUN GRAVEL, CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER, WITH OPTIMUM MOISTURE CONTENT FOR COMPACTING AND SHALL BE FREE OF ANY DEBRIS.

b. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME.

3. STRUCTURAL FILL:

a. REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR COMPACTED STRUCTURAL FILL. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY SPECIAL INSPECTOR AND OR TESTING LAB.

H. CONCRETE:

1. CAST-IN-PLACE:

a. REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
CONCRETE CAST AGAINST AND
PERMANENTLY EXPOSED TO EARTH.....3"
CONCRETE EXPOSED TO EARTH OR WEATHER-
#6 AND LARGER.....2"
#5 BARS AND SMALLER.....1½"
CONCRETE NOT EXPOSED TO WEATHER
OR IN CONTACT WITH GROUND-
SLABS, WALL, & JOISTS:
#11 BARS AND SMALLER.....¾"

b. CORE DRILLING OF FOUNDATIONS, BEAMS, JOISTS, SLABS OR COLUMNS SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.

c. NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. MAKE BARS CONTINUOUS AROUND CORNERS. WHEN PERMITTED, SPLICES SHALL BE MADE BY CONTACT TENSION LAP SPLICES, UNLESS OTHERWISE NOTED.

d. ALL NSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. DRILLED OR POWDER DRIVEN FASTENERS WILL BE PERMITTED WHEN PROVEN TO THE SATISFACTION OF THE STRUCTURAL ENGINEER THAT THE FASTENERS WILL NOT SPALL THE CONCRETE AND HAVE THE SAME CAPACITY AS CAST-IN-PLACE INSERTS.

e. WHEN NSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS.

f. CHAMFER ALL EXISTING OR EXPOSED CONCRETE CORNERS ⅛ x ⅛" x ⅛" MINIMUM, SMOOTH FOR SKIM FINISH UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

g. THE CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL WITHIN TOLERANCE, TO THE ELEVATION INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO FORMWORK AND FRAMING DEFLECTION TO ACHIEVE THIS FINISHED TOP OF SLAB ELEVATION.

h. CONSTRUCTION JOINTS FOR SLABS ON METAL DECK SHALL BE LOCATED MIDWAY BETWEEN BEAMS WHERE THE JOINT IS PARALLEL TO THE BEAM SPAN. JOINTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPAN WHERE THE JOINT IS PERPENDICULAR TO THE BEAM SPAN. THE CONTRACTOR SHALL SUBMIT, (FOR APPROVAL) A SHOP DRAWING, INDICATING ALL PROPOSED JOINT LOCATIONS AND ALL REINFORCING STEEL TO BE PLACED IN THE SLAB. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS, UNLESS OTHERWISE SHOWN. ALL REINFORCING IS TO BE CONTINUOUS THROUGH JOINTS. SLABS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE UNLESS SHOWN OTHERWISE.

i. WELDED WIRE FABRIC REINFORCEMENT SHALL BE SUPPLIED IN SHEETS. LAP TWO FULL MESH LENGTHS AT SPLICES AND WIRE TOGETHER. STAGGER SHEETS TO AVOID MULTIPLE LAPS @ CORNER

j. CONCRETE ENGINEERED REINFORCING FIBERS SHALL BE POLYPROPYLENE, COLLATED FIBRILLATED FIBERS. POLYPROPYLENE FIBERS SHALL BE USED ONLY IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. USE 1.5 POUND BAGS PER ONE CUBIC YARD OF CONCRETE. THE FIBER MANUFACTURER OR APPROVED DISTRIBUTOR SHALL PROVIDE THE SERVICES OF A QUALIFIED EMPLOYEE FOR A PRE JOB MEETING AND INITIAL JOB START UP.

k. NO WELDING OF REINFORCING SHALL BE PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER.

b. ALL FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY ATLANTIC CONSULTING AND ENGINEERING DURING HELICAL PILE INSTALLATION.

A. CODES AND STANDARDS:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

a. 2018 – "BUILDING CODE OF THE STATE OF CONNECTICUT".

b. 2018 – "INTERNATIONAL BUILDING CODE", BUILDING OFFICIALS AND CODE ADMINISTRATORS,

b. 2018 – "INTERNATIONAL RESIDENTIAL CODE".

d. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES": (ANSI/ASCE 7-02), AMERICAN SOCIETY OF CIVIL ENGINEERS.

e. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-02", AMERICAN CONCRETE INSTITUTE.

f. "MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE.

g. "MANUAL OF STEEL CONSTRUCTION – ALLOWABLE STRESS DESIGN", NINTH EDITION 1989, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATIONS FOR STRUCTURAL STEEL A325 OR A490 BOLTS, AND AISC CODE OF STANDARD PRACTICE WITH EXCEPTION, IF ANY, AS INDICATED IN THE SPECIFICATIONS).

h. "STRUCTURAL WELDING CODE ANSI/AWS D1.1-02", AMERICAN WELDING SOCIETY.

i. "STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS", STEEL JOIST INSTITUTE (1994)

j. "DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS", STEEL DECK INSTITUTE.

k. "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI530-02) & SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-02)

B. DESIGN DATA:

1. GRAVITY – DESIGN LIVE LOADS

	AREA	PSF
a.	LIVING AREA AND DECKS	40
b.	CAR PORT AREA	50
c.	ATTIC WITH MECH. EQUIP.	30
d.	GROUND SNOW LOAD	(Pg) = 60
	30+ DRIFTING SNOW AS APPLICABLE	1.0
e.	LIVE ROOF	MIN. 30 (REDUCIBLE)
f.	LIVE LOAD AT ALL OTHER AREAS	40

2. LATERAL LOADS – WIND
a. MAIN WIND-FORCE RESISTING SYSTEM:
(1) BASIC WIND SPEED: 100MPH EXPOSURE: C
(2) IMPORTANCE FACTOR (I): 1.0
b. COMPONENTS & CLADDING – TO BE DESIGNED IN ACCORDANCE WITH ANSI/ASCE 7-02.
c. NET WIND UPLIFT: 22± PSF
d. LATERAL EQUIVALENT FLUID PRESSURE 30 PSF/FT (1) ACTIVE CONDITION

C. FOUNDATIONS/GEOTECHNICAL REPORT:

1. FOUNDATIONS HAVE BEEN DESIGNED WITH AN ESTIMATED SOIL BEARING PRESSURE OF 4000PSF. GEOTECHNICAL TO BE REPORT PREPARED BY FULLER ENGINEERING UPON REQUEST

2. FOUNDATIONS PLACED ON UNDISTURBED SOIL AT ELEVATIONS INDICATED HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE OF 3000 PSF.

D. MATERIALS:

1. THE FOLLOWING ASTM STANDARDS AND DESIGN STRENGTH SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.

2. CEMENT: ASTM C150; TYPE I OR III

3. AGGREGATES: ASTM C33 (NORMAL WEIGHT)
ASTM C330 (STRUCTURAL LIGHTWEIGHT)

4. CONCRETE: ALL CONCRETE SHALL BE AIR-ENTRAINED 5-7% 1½% BY VOLUME, AIR-ENTRAINING ADMIXTURE TO COMPLY WITH ASTM C260.

	APPLICATION	FC@28 DAYS	WT(PCF)	W/C(MAX)
a.	SLABS ON GRADE	3500	145	0.47
b.	CAR PORT AREA	3500	145	0.47
c.	LIVING	3500	145	0.47
d.	FOOTINGS	3500	145	0.47
e.	WALLS & PIERS	3500	145	0.47

5. REINFORCEMENT:

a.	DEFORMED REINFORCINIG BARS	ASTM A615, GRADE 60
b.	WELDABLE DEFORMED REINF. BARS	ASTM A706
c.	WELDED WIRE FABRIC (WWF)	ASTM A185
d.	ADHESIVE REINF. DOWELING SYSTEM	HILTI HIT HY150 SYS. OR EQUAL

6. STEEL:

a.	STRUCTURAL PLATES	ASTM A36
b.	HI-STRENGTH STRUCT. STEEL	ASTM A992, GRADE 50
c.	STRUCTURAL PIPE	ASTM A53, GRADE B, FY=35KSI OR
	ASTM A501, FY=46KSI	
d.	STRUCTURAL TUBING	ASTM A500, GRADE B, FY=46KSI
e.	HIGH STRENGTH BOLTS	ASTM A325-N
f.	ANCHOR BOLTS	ASTM A307 OR A325 AS NOTED
g.	SMOOTH & THREADED ROD	ASTM A36
h.	WELDING ELECTRODES	AWS A5.1 RO A5.5, E70XX
i.	EXPANSION BOLTS	ITW RAMSET/ REDHEAD, TRU-BOLT, WEDGE ANCHOR, HILTI KWIK-BOLT II
j.	ADHESIVE ANCHORING SYSTEM	ITW RAMSET/REDHEAD, EPCON SYSTEM, HILTI HVA SYSTEM OR APPROVED EQUAL
k.	PAINTED METAL FLOOR DECK	ASTM A446
l.	PAINTED METAL ROOF DECK	ASTM446

7. MASONRY:
a. LOAD BEARING CONCRETE HOLLOW MASONRY UNITS ASTM C90, TYPE I, GRADE N, MIN. COMPRESSIVE STRENGTH ON NET AREA= 3000PSI.
b. MORTAR ASTM C270-TYPE S
c. GROUT ASTM C476- MIN. COMPRESSIVE STRENGTH @ 28 DAYS= 3000PSI.
d. HORIZONTAL JOINT ASTM A82; 9 GAUGE TRUSS-TYPE REINFORCING GALV.
e. PRISM STRENGTH METHOD, INSPECTION Fm = 2000PSI. PER ACI 530/ASCE 5, UNIT STRENGTH REQUIRED.

NOTE: SEE DETAILS FOR VERTICAL REINFORCEMENT

E. CONSTRUCTION:

1. GENERAL:

a. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

b. SHOP DRAWINGS SUBMITTED FOR STRUCTURAL REVIEW SHALL CONSIST OF TWO SETS OF PRINTS AND ONE SET OF SEPIAS. ONLY ONE MARKED UP SET OF SEPIAS WITH THE STRUCTURAL ENGINEER'S COMMENTS WILL BE RETURNED TO THE CONTRACTOR.

c. SUBMIT SHOP DRAWINGS AT LEAST 15 DAYS BEFORE DATE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

d. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.

e. IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES, TEMPORARY SHORING, AND BRACING OF EXISTING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

f. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE.

g. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL PLUMBING, ELECTRICAL, AND FOOD SERVICE DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS.

h. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, FIREPROOFING, ETC.

i. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. CONNECTIONS ARE DESIGNED TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE-REQUIRED LATERAL LOAD. PROVIDE COMPRESSIBLE FIRESAFING AT TOP OF WALL AS REQUIRED BY ARCHITECTURAL DRAWINGS.

j. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, DRAWINGS AND CALCULATIONS FOR ALL OF THE FOLLOWING ASSEMBLIES. THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR THIS ENGINEER'S SEAL & SIGNATURE. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT PARAMETERS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES.

(1) METAL STAIRS AND METAL RAILINGS: DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED BY THE STRUCTURAL ENGINEER OF RECORD TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE INDUCED IN THESE STRUCTURAL MEMBERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING EMBEDS AND HARDWARE AS REQUIRED BY THE STAIR DESIGNER

k. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

l. CONTRACTOR SHALL FURNISH DIMENSIONED SHOP DRAWINGS AT ALL LEVELS LOCATING FLOOR AND ROOF EDGES FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.

m. CONTRACTOR SHALL FURNISH DIMENSIONED COORDINATED SHOP DRAWINGS AT ALL LEVELS SHOWING THE LOCATIONS OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES.

F. INSPECTION AND TESTING:

1. GENERAL:

a. THE CONTRACTOR WILL NOTIFY FAIRFIELD TESTING LABORATORIES @ 203-336-5900 &/ OR ATLANTIC CONSULTING (SPECIAL INSPECTORS) TO PROVIDE SERVICES AS INDICATED BELOW. THE OWNER SHALL BEAR ALL EXPENSES OF THIS WORK.

b. CAST-IN-PLACE CONCRETE:
(1) THE SPECIAL INSPECTOR SHALL INSPECT THE FORMWORK AND REINFORCING STEEL PLACEMENT FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. THE SPECIAL INSPECTOR SHALL MONITOR ALL STRUCTURAL CONCRETE PLACEMENT FOR CONFORMANCE WITH APPLICABLE ACI REQUIREMENTS.
(2) EXISTING AGENCY SHALL SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172. MOLD TEST CYLINDERS IN ACCORDANCE WITH ASTM C31. MEASURE AIR ENTRAINMENT IN ACCORDANCE WITH ASTM C231 AND PERFORM SLUMP TESTS IN ACCORDANCE WITH C143.
(3) COMPRESSION TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM C39.
(4) THE AGENCY WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE STRUCTURAL ENGINEER, WHEN TEST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS HAVE NOT BEEN ATTAINED.

c. MASONRY:
(1) THE SPECIAL INSPECTOR SHALL MONITOR THE PROPORTIONING, MIXING AND CONSISTENCY OF MORTAR AND GROUT; THE PLACEMENT OF MORTAR, GROUT AND MASONRY UNITS; AND THE PLACEMENT OF REINFORCING STEEL FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
(2) TESTING AGENCY SHALL PERFORM COMPRESSION TEST MASONRY PRISMS FOR EACH TYPE OF WALL CONSTRUCTION IN ACCORDANCE WITH ASTM E447, METHOD B.
(3) THE CONTRACTOR SHALL PREPARE ONE SET OF PRISMS FOR TESTING AT 7 DAYS AND ONE SET FOR TESTING AT 28 DAYS. TESTS ARE TO BE CONDUCTED BY THE AGENCY FOR EACH 3000 SQUARE FEET OF WALL INSTALLED, BUT NOT LESS THAN 2 TESTS.

d. STRUCTURAL STEEL:
(1) SPECIAL INSPECTOR SHALL VISUALLY INSPECT ALL FILLET WELDS, BOLTED CONNECTIONS AND SHEAR STUDS.
(2) THE TESTING AGENCY SHALL MONITOR THE INSTALLATION OF BOLTS REQUIRING PRETENSIONING FOR CONFORMANCE WITH SPECIFIC PRE-CALIBRATED TIGHTENING PROCEDURES.
(3) EACH FULL PENETRATION BUTT OR GROOVE WELD AND FIFTY PERCENT OF PARTIAL PENETRATION WELDS SHALL BE TESTED BY THE ULTRASONIC METHOD, AND MULTI-PASS WELDS SHALL BE TESTED BY THE MAGNETIC PARTICLE METHOD.
(4) 10% OF ALL FIELD FILLET WELDS IN PRIMARY CONNECTIONS
(5) TEST ANY WELD FOR WHICH VISUAL EXAMINATION INDICATES AN UNUSUAL CONDITION AND/OR POOR QUALITY.
(6) WELDING INSPECTION AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AWS CODE.

G. FOUNDATIONS & STRUCTURAL EARTHWORK:

1. GENERAL:

a. SEE THE SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION PROCEDURES. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.

b. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.

c. EXISTING UTILITIES KNOWN TO BE IN THE CONSTRUCTION AREA HAVE BEEN INDICATED. THE SIZE, LOCATION AND DEPTH OF THE UTILITIES ARE NOT KNOWN EXACTLY AND MAY VARY SIGNIFICANTLY FROM THAT INDICATED. OTHER UNKNOWN UTILITIES NOT INDICATED MAY ALSO BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.

H. FOUNDATION PREPARATION

BORINGS INDICATE THAT UNSUITABLE FILL MATERIALS ARE PRESENT TO BEYOND 25 FEET BELOW THE SURFACE ELEVATION.

ABBREVIATIONS	
TOW	INDICATES TOP OF WALL ELEVATION
TOS	INDICATES TOP OF STEEL OR TOP OF SHELF ELEVATION
BOF	INDICATES BOTTOM FOOTING ELEVATION
SF	INDICATES FOOTING STEP. SEE TYPICAL DETAIL
F-"X"	INDICATES CONCRETE FOOTING.
CJ	INDICATES CONTROL OR CONSTRUCTION JOINT. SEE TYPICAL DETAIL

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Seal:

Sheet Title:
STRUCTURAL NOTES

APPLICATION # 1588

MADACSI RESIDENCE
53 ROSELEAH DRIVE
Mystic, CT 06515

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
OWNER OCCUPIED REHABILITATION
AND REBUILDING PROGRAM (OORR)

Date: 15th of March 2019

Job Number: 17-3117
Drawn By: TJP

Sheet Number:
S-6

PLUMBING SPECIFICATIONS

THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING PLUMBING FIXTURES AND FAUCETS (PER THE MANUFACTURERS WRITTEN INSTRUCTIONS FOR INSTALLATION) AND ALL ASSOCIATED PIPING - READY FOR THEIR INTENDED USE - ALL FINISH MATERIALS SHALL BE AS SPECIFIED - ALTERNATES WILL NOT BE CONSIDERED - COLOR AND FINISHES (IF NOT SPECIFIED) SHALL BE BY THE OWNER FROM MANUFACTURER'S STANDARD COLOR AND FINISH SELECTIONS

KITCHEN

KITCHEN SINK (MAIN COUNTER) - JUST STAINLESS-STEEL SINK MODEL #JZRL-2035 ZERO RADIUS UNDER-COUNTER MOUNTED WITH OFFSET DOUBLE COMPARTMENT - 16 GAUGE TYPE 304 WITH STAINLESS STEEL FINISH - (NOTE: THE COUNTERTOP WILL BE QUARTZ OR GRANITE AND IT WILL BE PROVIDED BY THE OWNER - HOLE CUT AND READY FOR THE SINK TO BE INSTALLED - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SINK SPECIFIED, THE INSTALLATION OF THE SINK AND ALL ASSOCIATED PIPING - READY FOR INTENDED USE)

KITCHEN SINK (ISLAND COUNTER) - JUST STAINLESS-STEEL SINK MODEL #JZRS-1816 ZERO RADIUS UNDER-COUNTER MOUNTED - 16 GAUGE TYPE 304 WITH STAINLESS STEEL FINISH - (NOTE: THE COUNTERTOP WILL BE QUARTZ OR GRANITE AND IT WILL BE PROVIDED BY THE OWNER - HOLE CUT AND READY FOR THE SINK TO BE INSTALLED - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SINK SPECIFIED, THE INSTALLATION OF THE SINK AND ALL ASSOCIATED PIPING - READY FOR INTENDED USE)

SINK FAUCET (KITCHEN SINK AND ISLAND SINK) - MOEN MODEL #7294SRS ARBOR SERIES FAUCET - SINGLE HANDLE HIGH ARC PULLOUT KITCHEN FAUCET - SPOT RESISTANT STAINLESS STEEL - HANDLE WITH PULL-OUT SPRAY - ONE-HOLE INSTALLATION - (NOTE: THE COUNTERTOP WILL BE QUARTZ OR GRANITE AND IT WILL BE PROVIDED BY THE OWNER - HOLES CUT AND READY FOR THE FAUCET TO BE INSTALLED - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE FAUCET SPECIFIED, THE INSTALLATION OF THE FAUCET AND ALL ASSOCIATED PIPING - READY FOR INTENDED USE)

POT FILLER (OVER STOVE) - MOEN MODEL #664SRS SERIES FAUCET - SPOT RESISTANT STAINLESS STEEL - DOUBLE HANDLE WALL MOUNTED ABOVE STOVE - (NOTE: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE FAUCET SPECIFIED, THE INSTALLATION OF THE FAUCET AND ALL ASSOCIATED PIPING - READY FOR INTENDED USE)

WET BAR

SINK (WET BAR) - THE WET BAR SINK IS EXISTING AND SHALL BE REINSTALLED IN THE NEW LOCATION AS INDICATED ON THE DRAWINGS - (NOTE: THE GENERAL CONTRACTOR SHALL CLEAN AND REINSTALL THE EXISTING SINK - THE GENERAL CONTRACTOR SHALL PROVIDE NEW PIPING, WASTE LINE AND OTHER ASSOCIATED PLUMBING - READY FOR INTENDED USE)

WET BAR FAUCET - THE WET BAR SINK FAUCET IS EXISTING AND SHALL BE REINSTALLED - (NOTE: THE GENERAL CONTRACTOR SHALL CLEAN AND REINSTALL THE EXISTING FAUCET - THE GENERAL CONTRACTOR SHALL PROVIDE NEW PIPING, WASTE LINE AND OTHER ASSOCIATED PLUMBING - READY FOR INTENDED USE)

MASTER BATHROOM

TOILET - THE TOILET SHALL BE AS MANUFACTURED BY KOHLER #K3981 WHI TRESHAM CH (COMFORT HEIGHT) WITH ELONGATED BOWL - INCLUDE ELONGATED SEAT - COLOR OF TOILET AND SEAT SHALL BE WHITE - INCLUDE K9375 BN TRESHAM TRIP LEVER

SHOWER UNIT - THE SHOWER ENCLOSURE SHALL BE CUSTOM BUILT ON SITE - THE GENERAL CONTRACTOR SHALL PROVIDE TILE MATERIAL FOR BASE/SURROUNDING WALL SURFACES (FULL HEIGHT) AND A GLASS ENTRANCE DOOR (SIZED TO SUIT OPENING) - SLOPE BASE TOWARD CENTER DRAIN - TILE MATERIAL AS SELECTED BY THE OWNER - REFER TO ALLOWANCE SECTION 01210 - G FOR A PER SQUARE FOOT COST FOR THE TILE MATERIAL (ONLY) SURROUND AND BASE

SHOWER FAUCET AND MIXING VALVES - KOHLER LOURE SHOWER/HANDSHOWER BASED ON THE FOLLOWING PRODUCT NUMBERS - LOURE THERMOSTATIC VALVE TRIM KT146724BN - MASTER SHOWER VOLUME CONTROL K2977KNA (3 REQUIRED) - LOURE VOLUME CONTROL TRIM KT146744BN (3 REQUIRED) - BN LOURE SHOWER ARM AND FLANGE K99690BN - BN LOURE SINGLE FUNCTION SHOWERHEAD K14786BN - BN 24 SHOWER SLIDE BAR K9069BN - LOURE SLIDE BAR TRIM K14790BN - BN AWAKEN SUPPLY ELBOW K98350BN - BN 60" MASTER SHOWER HOSE K9514BN - SHIFT SQUARE HANDSHOWER BLACK HANDLE K14788BN

LAVATORIES - AMERICAN STANDARD OVALYN UNDER-COUNTER MOUNT SINK, VITREOUS CHINA, MODEL 0496.300 GLAZED UNDERSIDE, 19.25" X 16.25" - COLOR WHITE - (NOTE: THE COUNTERTOP WILL BE QUARTZ OR GRANITE AND IT WILL BE PROVIDED BY THE OWNER - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE LAVATORIES SPECIFIED, THE INSTALLATION OF THE LAVATORIES AND ALL ASSOCIATED PIPING - READY FOR USE) - 2 REQUIRED

LAVATORY FAUCETS - BRIZO SIDERNA FAUCET MODEL D65380 LFBNLHP WITH METAL LEVER HANDLE KIT DHL5380BN

ACCESSORIES - MOEN 90 DEGREE ACCESS - PIVOTING PAPER HOLDER CSIYB8808BN - TOWEL BAR 18" CSIYB8818BN (2 REQUIRED) - ROBE HOOK CSIYB8803BN (2 REQUIRED)

BODY SPRAYS AND VALVES - BN WATERTILE RELAXING BODY SPRAY K8002BN (2 REQUIRED) - BN WATERTILE INVIGORATING BODY SPRAY K8003BN (2 REQUIRED) - MASTER SHOWER THERM MIX K2975KSNA

MAIN BATHROOM

TOILET - THE TOILET SHALL BE AS MANUFACTURED BY KOHLER #K3981 WHI TRESHAM CH (COMFORT HEIGHT) WITH ELONGATED BOWL - INCLUDE ELONGATED SEAT - COLOR OF TOILET AND SEAT SHALL BE WHITE - INCLUDE K9375 BN TRESHAM TRIP LEVER

TUB/SHOWER UNIT - THE BATHTUB UNIT SHALL BE AMERICAN STANDARD, MODEL #AMS2461002.020 (LEFT HAND OUTLET OR AS SHOWN ON THE DRAWINGS) WITH AMERICAST WHITE ENAMEL FINISH - AS DEEP SOAK TUB DRAIN WHITE AMS1640.305.020 - THE GENERAL CONTRACTOR SHALL PROVIDE TILE ON THE THREE SURROUNDING WALL SURFACES (64" HIGH ABOVE TUB SURFACE) - BATHTUB COLOR WHITE - TILE MATERIAL AS SELECTED BY THE OWNER - REFER TO ALLOWANCE SECTION 01210 - G FOR A PER SQUARE FOOT COST FOR THE TILE MATERIAL SURROUND

SHOWER FAUCET AND MIXING VALVES - KOHLER LOURE SHOWER/HANDSHOWER BASED ON THE FOLLOWING PRODUCT NUMBERS - BN LOURE LEVER HANDLE SHOWER TRIM KTS146704BN - UNIVERSAL VALVE BODY K8304KNA - BN 5' CURVED SHOWER ROD CSICSR2165BN - BN 24 SHOWER SLIDE BAR K9069BN - LOURE SLIDE BAR TRIM K14790BN - BN 60" MASTER SHOWER HOSE K9514BN - SHIFT SQUARE HANDSHOWER BLACK HANDLE K14788BN - MASTER SHOWER 2 OR 3 WAY TRANSFER VALVE K728KNA - LOURE TRANSFER VALVE TRIM KT146734BN - LOURE WALL MOUNT BATH SPOUT K146676BN

LAVATORY - AMERICAN STANDARD OVALYN UNDER-COUNTER MOUNT SINK, VITREOUS CHINA, MODEL 0496.300 GLAZED UNDERSIDE, 19.25" X 16.25" - COLOR WHITE - (NOTE: THE COUNTERTOP WILL BE QUARTZ OR GRANITE AND IT WILL BE PROVIDED BY THE OWNER - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE LAVATORIES SPECIFIED, THE INSTALLATION OF THE LAVATORIES AND ALL ASSOCIATED PIPING - READY FOR USE)

LAVATORY FAUCETS - BRIZO SIDERNA FAUCET MODEL D65380 LFBNLHP WITH METAL LEVER HANDLE KIT DHL5380BN

ACCESSORIES - MOEN 90 DEGREE ACCESS - PIVOTING PAPER HOLDER CSIYB8808BN - TOWEL BAR 18" CSIYB8818BN - ROBE HOOK CSIYB8803BN

HALF BATHROOM

TOILET - THE TOILET SHALL BE AS MANUFACTURED BY KOHLER #K3981 WHI TRESHAM CH (COMFORT HEIGHT) WITH ELONGATED BOWL - INCLUDE ELONGATED SEAT - COLOR OF TOILET AND SEAT SHALL BE WHITE - INCLUDE K9375 BN TRESHAM TRIP LEVER

LAVATORY AND FAUCET - KRAUS VESSEL AND FAUCET AS FOLLOWS - COPPER MERCURY GLASS VESSEL/FAUCET COMBO KRACGV68019MM10SN SATIN NICKEL 17" VESSEL BATHROOM LAVATORY AND FAUCET COMBINATION - (NOTE: THE BASE CABINET AND COUNTERTOP WILL BE PROVIDED BY THE OWNER - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE FAUCET SPECIFIED, THE INSTALLATION OF THE FAUCET AND VESSEL LAVATORY AND ALL ASSOCIATED PIPING - READY FOR USE)

ACCESSORIES - MOEN 90 DEGREE ACCESS - PIVOTING PAPER HOLDER CSIYB8808BN - TOWEL BAR 18" CSIYB8818BN - ROBE HOOK CSIYB8803BN

STUDIO BATHROOM

TOILET - THE TOILET SHALL BE AS MANUFACTURED BY KOHLER #K3981 WHI TRESHAM CH (COMFORT HEIGHT) WITH ELONGATED BOWL - INCLUDE ELONGATED SEAT - COLOR OF TOILET AND SEAT SHALL BE WHITE - INCLUDE K9375 BN TRESHAM TRIP LEVER

SHOWER UNIT - THE SHOWER BASE UNIT SHALL BE AMERICAN STANDARD #3636.STTS WITH HIGH GLOSS ACRYLIC FINISH - THE GENERAL CONTRACTOR SHALL PROVIDE TILE ON THE THREE SURROUNDING WALL SURFACES (FULL HEIGHT) AND A GLASS ENTRANCE DOOR (SIZED TO SUIT OPENING) - SHOWER BASE COLOR WHITE - TILE MATERIAL AS SELECTED BY THE OWNER - REFER TO ALLOWANCE SECTION 01210 - G FOR A PER SQUARE FOOT COST FOR THE TILE MATERIAL (ONLY) SURROUND

SHOWER FAUCET AND MIXING VALVES - KOHLER LOURE SHOWER/HANDSHOWER BASED ON THE FOLLOWING PRODUCT NUMBERS - LOURE RITE TEMP SHOWER TRIM W/DIVERTER KT146654BN - RITE TEMP VLV W/DIVERTER AND STOPS K11748KSNA - BN 24 SHOWER SLIDE BAR K9069BN - LOURE SLIDE BAR TRIM K14790BN - BN AWAKEN SUPPLY ELBOW K98350BN - BN 60" MASTER SHOWER HOSE K9514BN - SHIFT SQUARE HANDSHOWER BLACK HANDLE K14788BN

LAVATORY - AMERICAN STANDARD OVALYN UNDER-COUNTER MOUNT SINK, VITREOUS CHINA, MODEL 0496.300 GLAZED UNDERSIDE, 19.25" X 16.25" - COLOR WHITE - (NOTE: THE COUNTERTOP WILL BE QUARTZ OR GRANITE AND IT WILL BE PROVIDED BY THE OWNER - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE LAVATORIES SPECIFIED, THE INSTALLATION OF THE LAVATORIES AND ALL ASSOCIATED PIPING - READY FOR INTENDED USE)

LAVATORY FAUCET - BRIZO SIDERNA FAUCET MODEL D65380 LFBNLHP WITH METAL LEVER HANDLE KIT DHL5380BN

ACCESSORIES - MOEN 90 DEGREE ACCESS - PIVOTING PAPER HOLDER CSIYB8808BN - TOWEL BAR 18" CSIYB8818BN - ROBE HOOK CSIYB8803BN (2 REQUIRED)

GENERAL NOTES

FIXTURES, FAUCETS, TUB/SHOWER KITS AND ACCESSORIES ARE AVAILABLE THROUGH THE GRANITE GROUP - 1425 GOLD STAR HIGHWAY - GROTON CONNECTICUT - 860.629.7700 - REFER TO ORDER NUMBER 10453976-00 FOR DAVID MADACSI

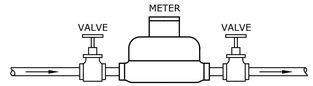
KITCHEN AND BATH CABINETS, COUNTERTOPS AND VANITIES - SHALL BE PROVIDED BY THE OWNER - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED PLUMBING TO THE LOCATIONS INDICATED ON THE DRAWINGS - ALL OPENINGS FOR SINKS, LAVATORIES AND FAUCETS SHALL PRECUT BY THE COUNTERTOP SUPPLIER

TOWEL BARS, TOILET PAPER DISPENSERS AND ROBE HOOKS - SHALL BE AS SPECIFIED ABOVE - LOCATIONS FOR THESE ITEMS SHALL BE DETERMINED BY THE OWNER - PROVIDE SOLID WOOD BLOCKING BEHIND ALL ACCESSORIES

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
W	BURIED WATER PIPE		BUTTERFLY VALVE		UNION
SAN	BURIED SANITARY PIPE		CHECK VALVE		CIRCULATING PUMP
SAN	SANITARY DRAIN PIPE		PRESSURE REDUCING VALVE		FLOOR DRAIN
WW	WASTE WATER PIPE		BACKFLOW PREVENTER		ROOF DRAIN
C	COLD		PLUG VALVE		CLEAN OUT
H	HOT		CONTROL VALVE		THERMOMETER
LPG	PROPANE		HOSE BIBB		PIPE ELBOW UP
LPG	BURIED PROPANE		PRESSURE RELIEF VALVE		PIPE ELBOW DN
V	VENT		STRAINER		CAP
CD	CONDENSATE DRAIN		BALL VALVE		GATE VALVE

NOTE: ABOVE LEGEND IS GENERAL IN NATURE. NOT ALL SYMBOLS ARE ASSOCIATED WITH THIS PROJECT.



ALL PIPING AND FITTINGS BY CONTRACTOR.
METER SUPPLIED BY UTILITY.

TYPICAL WATER METER PIPING DETAIL

NTS

NOTES:

1. PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE, ACTUAL ROUTING SHALL BE COORDINATED WITH EXISTING UTILITIES AND OTHER TRADES PRIOR TO THE START OF WORK.
2. DOMESTIC COLD WATER, SANITARY AND PROPANE GAS SERVICES TO BE ELEVATED ABOVE FLOOD LEVEL AND INSTALLED PER UTILITY REQUIREMENTS. A BACKFLOW VALVE SHALL BE INSTALLED IN THE SANITARY MAIN.
3. REMOVE ALL H, C, LPG & DRAIN PIPING SERVING BLDG AND RE-PIPE AS SHOWN.
4. INSTALL ALL EQUIPMENT PER MANU. RECOMMENDATIONS.
5. ALL WATER PIPING AT FIRST FLOOR TO BE HEAT TRACED, REFER TO ELEC. DWGS.
6. PIPE 1/2"H&C VALVED BRANCHES TO EACH FIXTURE.

WATER HEATER PIPING SCHEMATIC DIAGRAM

NTS

NORTH

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Comm No. 01MH6.03

Sheet Title:
PLUMBING LEGEND, NOTES AND DETAILS

APPLICATION # 1558

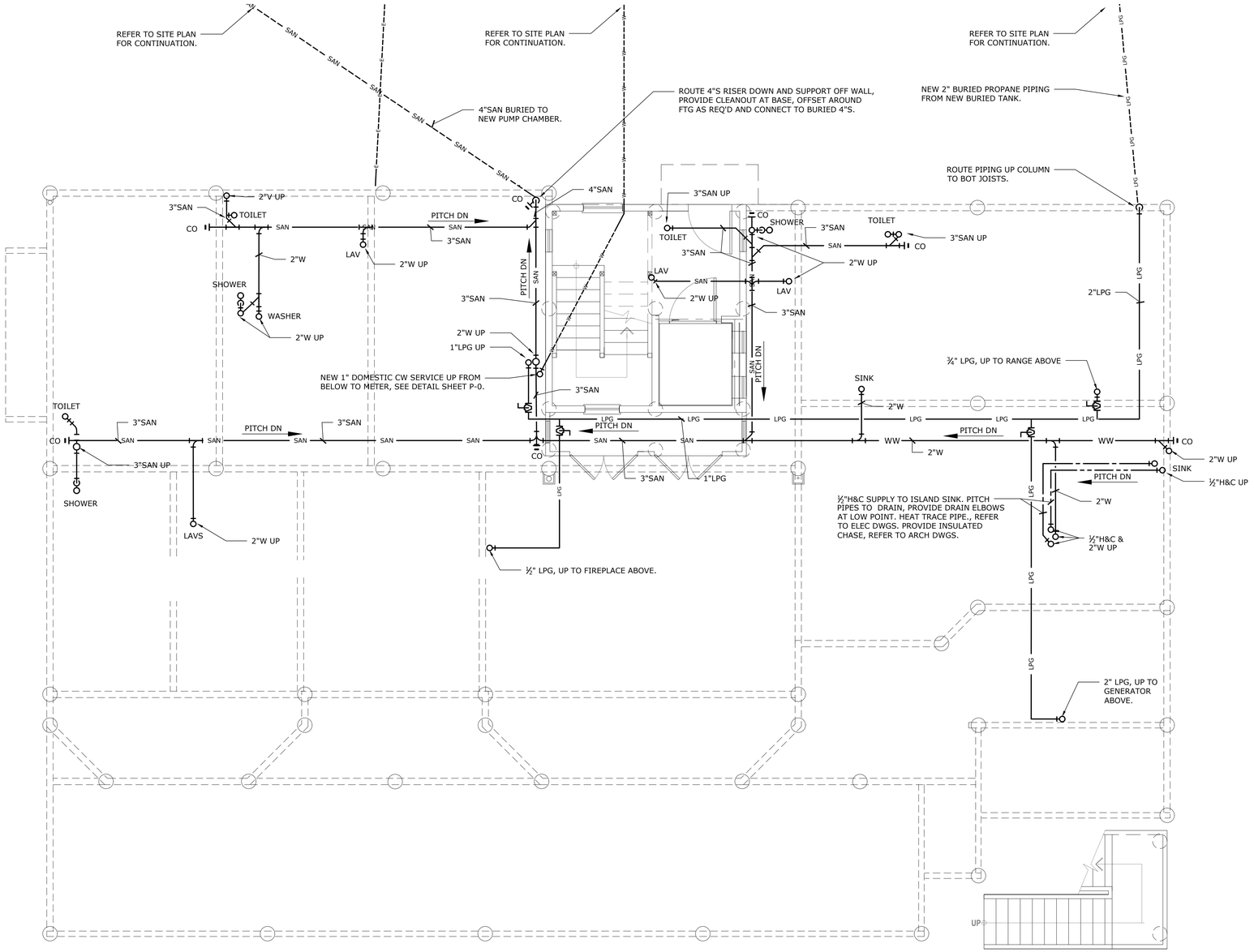
MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

Job Number:
Drawn By: JTF
Approved By: RJS

Sheet Number:
P-0



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

NOTES:

1. PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE, ACTUAL ROUTING SHALL BE COORDINATED WITH EXISTING UTILITIES AND OTHER TRADES PRIOR TO THE START OF WORK.
2. DOMESTIC COLD WATER, SANITARY AND PROPANE GAS SERVICES TO BE ELEVATED ABOVE FLOOD LEVEL AND INSTALLED PER UTILITY REQUIREMENTS. A BACKFLOW VALVE SHALL BE INSTALLED IN THE SANITARY MAIN.
3. REMOVE ALL H, C, LPG & DRAIN PIPING SERVING BLDG AND RE-PIPE AS SHOWN.
4. INSTALL ALL EQUIPMENT PER MANU. RECOMMENDATIONS.
5. ALL WATER PIPING AT FIRST FLOOR TO BE HEAT TRACED, REFER TO ELEC. DWGS.
6. PIPE 1/2"H&C VALVED BRANCHES TO EACH FIXTURE.

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email : info@loureiro.com
Comm No. 01MH6.03

Sheet Title:
UNDER HOUSE PLUMBING PLAN

APPLICATION # 1558

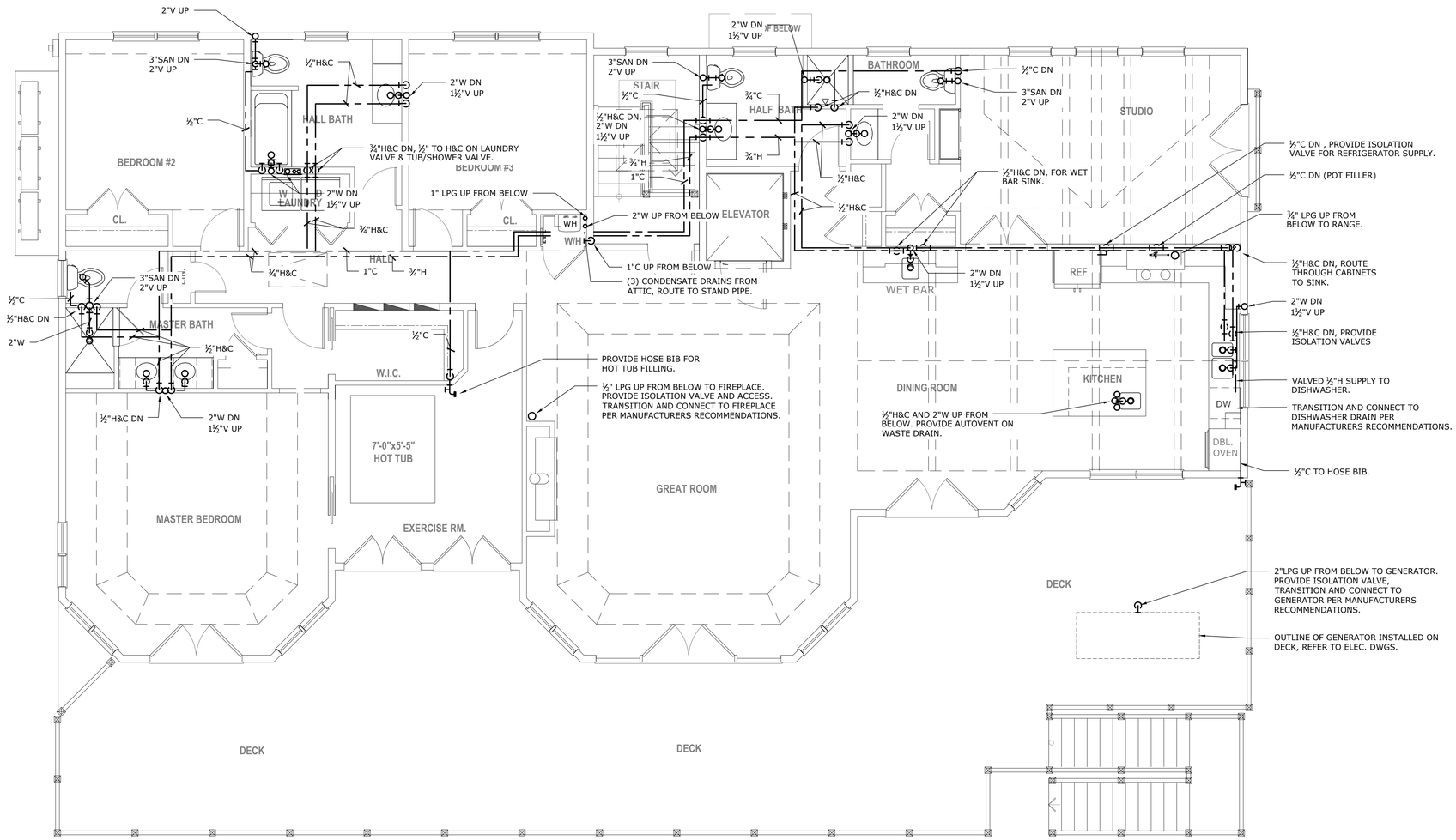
MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

Job Number:
Drawn By: JTF
Approved By: RJS

Sheet Number:
P-1



1 PLUMBING PLAN

1/4" = 1'-0"

NOTES:

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Sheet Title:

PLUMBING PLAN

APPLICATION # 1558

MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

Job Number:
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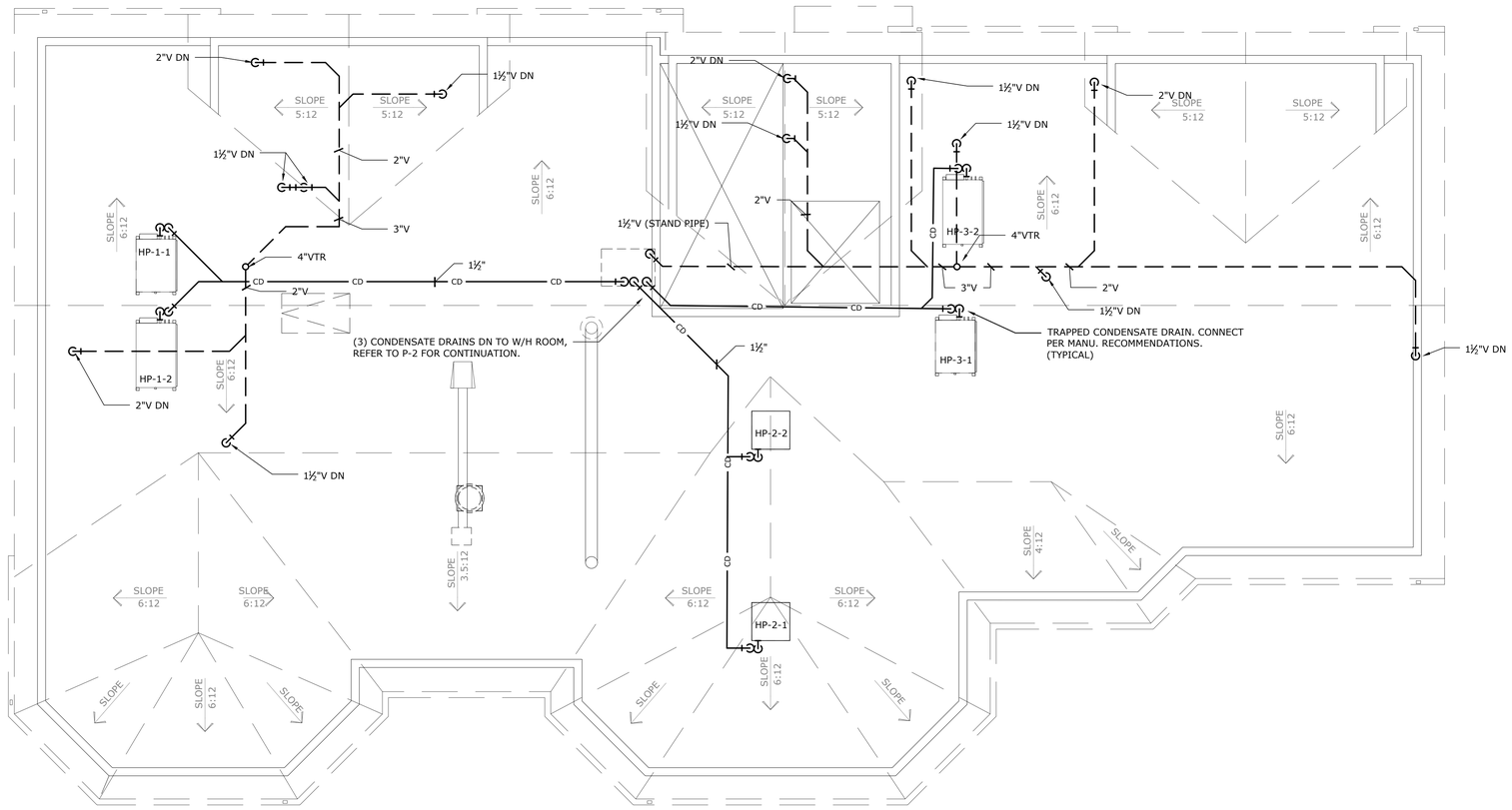
P-2



1 ATTIC PLUMBINGPLAN
1/4" = 1'-0"

NOTES:

1. PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE, ACTUAL ROUTING SHALL BE COORDINATED WITH EXISTING UTILITIES AND OTHER TRADES PRIOR TO THE START OF WORK.
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Sheet Title:
ATTIC PLUMBING PLAN

APPLICATION # 1558

MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

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P-3

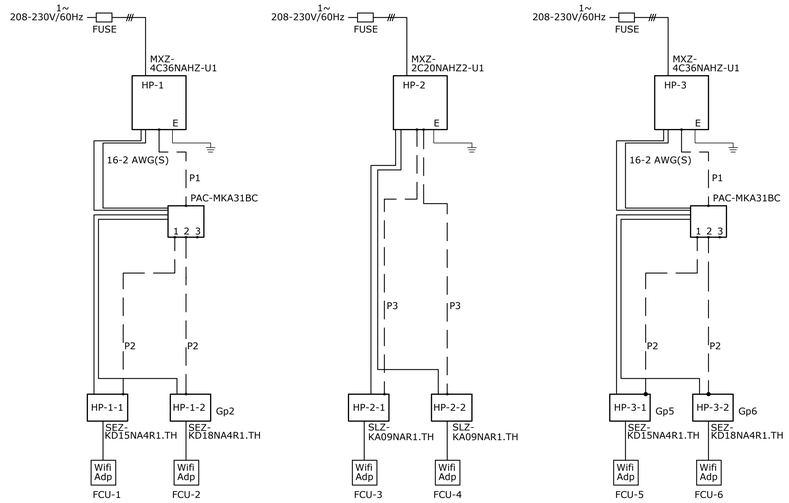
MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S/A	SUPPLY AIR		SUPPLY AIR OR OUTSIDE AIR FLOW	UD	UNDERCUT DOOR
R/A	RETURN AIR		RETURN AIR OR EXHAUST AIR FLOW	CUH	CABINET UNIT HEATER
O/A	OUTSIDE AIR		VOLUME DAMPER (VD)	ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST AIR		REGISTER OR GRILLE		PIPE ELBOW TURNED UP
EF	EXHAUST FAN		DIFFUSER		PIPE ELBOW TURNED DOWN
AFF	ABOVE FINISHED FLOOR		R/A RECTANGULAR DUCT RISER		PIPE TEE UP
BOD	BOTTOM OF DUCT ELEVATION		S/A RECTANGULAR DUCT RISER		PIPE TEE DN
HX	HEAT EXCHANGER		EXH RECTANGULAR DUCT RISER		PIPE CAP
FD	FIRE DAMPER		R/A ROUND DUCT RISER		GATE VALVE
CFM	CUBIC FEET PER MINUTE		S/A ROUND DUCT RISER		BALL VALVE
C	COLD WATER (DOMESTIC)		EXH ROUND DUCT RISER		PRESSURE GAUGE W/SHUTOFF COCK
ACC	AIR-COOLED CONDENSER	T	THERMOSTAT		CHECK VALVE
RTU	PACKAGED ROOF TOP AC UNIT	M	MOTORIZED DAMPER		BLIND FLANGE
VD	VOLUME DAMPER	TS	TEMPERATURE SENSOR		CONTROL VALVE
UH	UNIT HEATER		FLEXIBLE CONNECTOR		SOLENOID VALVE
PF	PADDLE TYPE FAN		BALANCE VALVE		STRAINER
AC	AIR CONDITIONING		DRAIN VALVE		MANUAL AIR VENT
MAU	MAKE-UP AIR UNIT		PIPE UNION		PIPE REDUCER
CP	CONTROL PANEL		STRAINER WITH BLOWDOWN		DIRECTION OF FLOW
HWS&R	HOT WATER SUPPLY & RETURN		THERMOMETER	M	2-WAY CONTROL VALVE
P	PUMP	LD	LOUVERED DOOR	M	3-WAY CONTROL VALVE
UD	UNDERCUT DOOR				

AIR OUTLET AND INLET SCHEDULE

TYPE	SIZE	MAX CFM	NECK	MAX NC	DESCRIPTION	MANU/MODEL	REMARKS
A	6x6	125	6"Ø	25	4-WAY SUPPLY AIR DIFFUSER	TITUS TMSA	PROVIDE WITH OPPOSED BLADE DAMPER
B	9x9	250	8"Ø	25	4-WAY SUPPLY AIR DIFFUSER	TITUS TMSA	PROVIDE WITH OPPOSED BLADE DAMPER
C	12x12	375	10"Ø	25	4-WAY SUPPLY AIR DIFFUSER	TITUS TMSA	PROVIDE WITH OPPOSED BLADE DAMPER
D	10x6	275	-	25	SIDEWALL S/A REGISTER	TITUS 272	PROVIDE WITH OPPOSED BLADE DAMPER
F	10x6	275	-	272	EGGCRATE RETURN/EXHAUST REGISTER	TITUS 50F	PROVIDE WITH OPPOSED BLADE DAMPER
H	10x10	475	-	30	EGGCRATE RETURN/EXHAUST REGISTER	TITUS 50F	PROVIDE WITH OPPOSED BLADE DAMPER
I	12x12	750	-	30	EGGCRATE RETURN/EXHAUST REGISTER	TITUS 50F	PROVIDE WITH OPPOSED BLADE DAMPER

NOTES:
1) MANU/MODEL LISTED ARE ONLY USED AS THE BASIS FOR DESIGN. REFER TO SPECIFICATIONS FOR LIST OF ACCEPTABLE MANU/MODELS.
2) SUPPLY AIR DIFFUSERS SHALL BE 4-WAY THROW UNLESS NOTED OTHERWISE BY A SECOND DIGIT NOTATION (I.E. A3 INDICATES A THREE-WAY THROW TYPE A DIFFUSER). THE DIFFUSER AIR FLOW PATTERN SHALL BE AS NOTED ON THE PLAN DRAWING
3) PROVIDE WITH OPPOSED BLADE DAMPER AND FRAME COMPATIBLE WITH CEILING.



1 DUCTLESS SLPIT SYSTEM SCHEMATIC DIAGRAM

ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING. PLEASE REFER THE AMOUNT OF PRE-CHARGE AND THE FORMULA OF CALCULATION WHICH IS MENTIONED ON THE DATA BOOK.
1.25MM²(16 AWG) : 1.25MM²(16 AWG) OR MORE.
0.75MM²(20 AWG) : BETWEEN 0.5MM²(24 AWG) AND 0.75MM²(20 AWG).
WIFI/ADP = PAC-USWHS002-WF-1

DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
——//——	POWER WIRE
—— - - ——	CONTROL WIRE
— — —	REF. PIPE

PIPING LIST	
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	3/8 / 5/8
P2	1/4 / 1/2
P3	1/4 / 3/8

NORTH

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Sheet Title:
LEGEND & SCHEDULES

APPLICATION # 1558

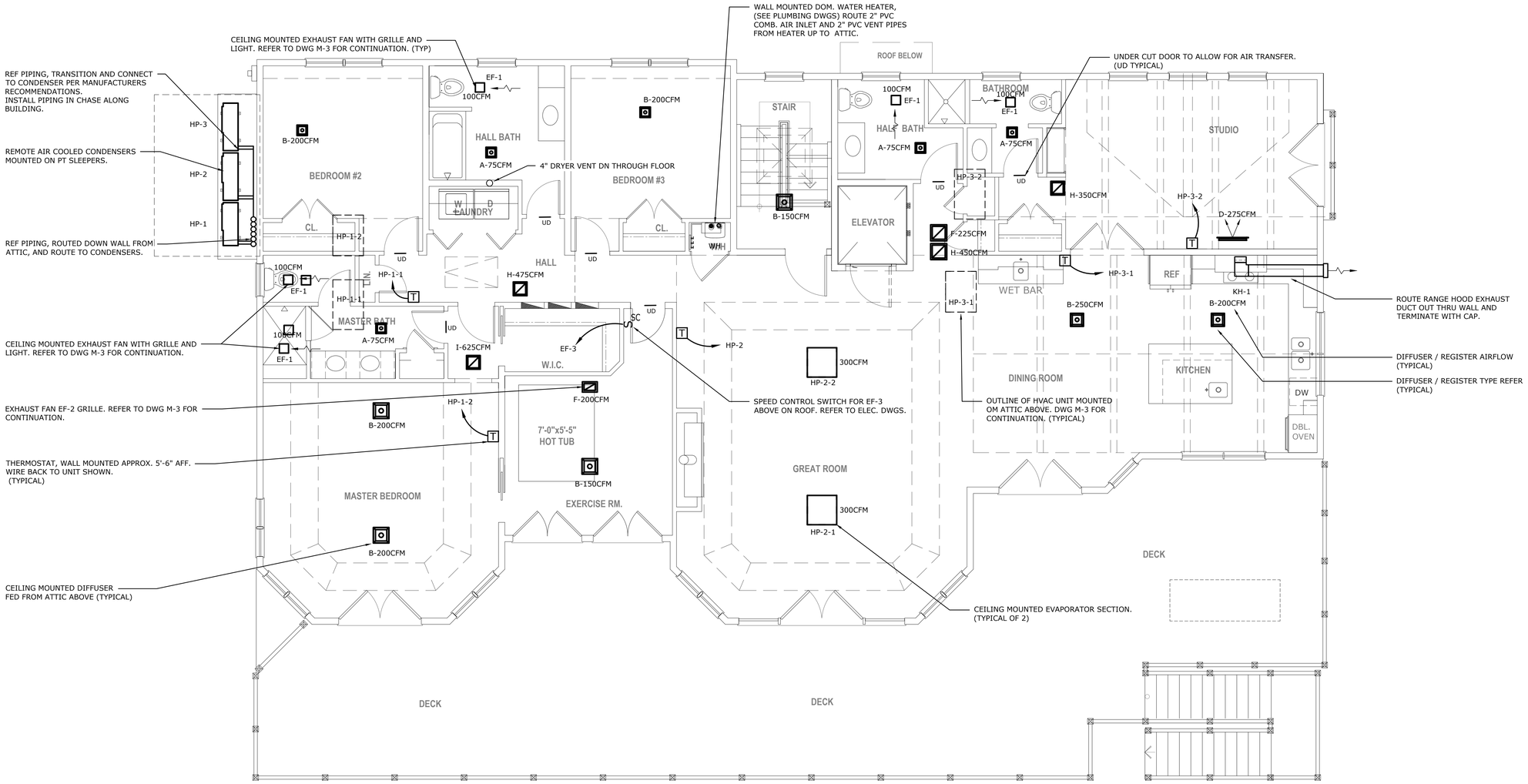
MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

Job Number:
Drawn By: JTF
Approved By: RJS

Sheet Number:
M-1



1 MECHANICAL FLOOR PLAN

1/4" = 1'-0"

NOTES:

1. DUCTWORK, REF. & CONDENSATE TUBING ROUTING SHOWN IS SCHEMATIC IN NATURE. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
2. CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO THE START OF WORK.

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Sheet Title:
MECHANICAL FLOOR PLAN

APPLICATION # 1558

MADACSI RESIDENCE
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STATE OF CONNECTICUT
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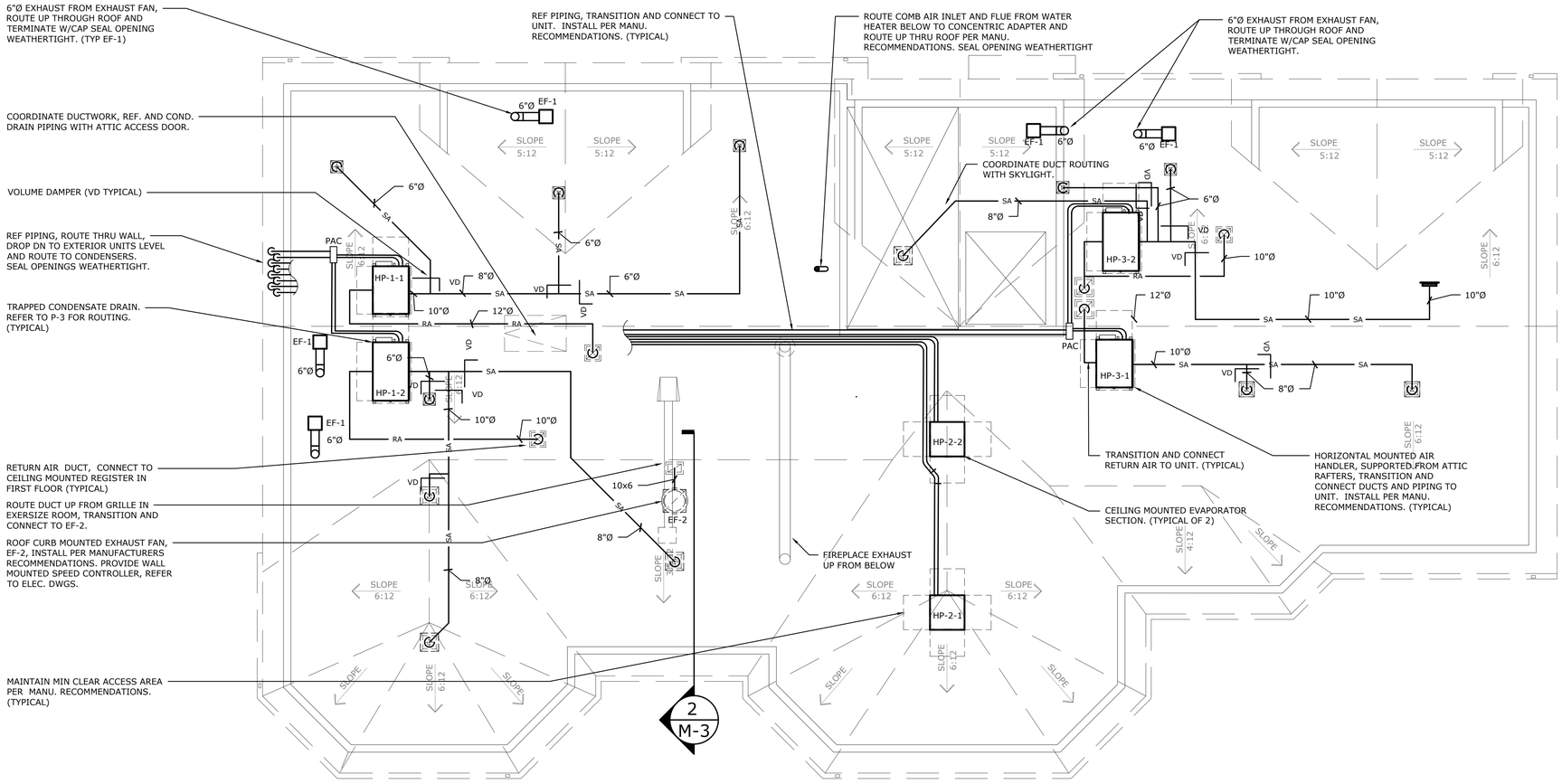
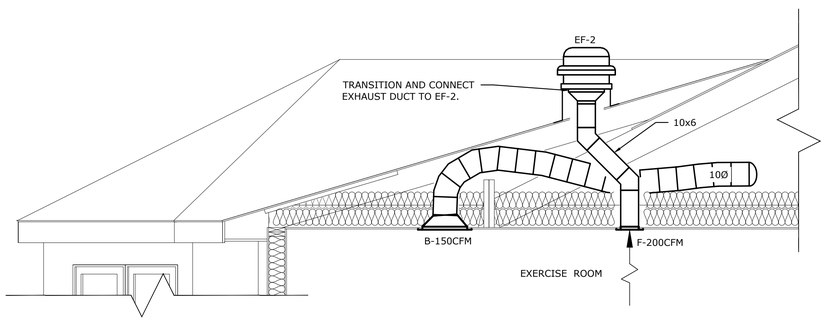
NORTH



1 ATTIC MECHANICAL PLAN
1/4" = 1'-0"

NOTES:

1. DUCTWORK, REF. & CONDENSATE TUBING ROUTING SHOWN IS SCHEMATIC IN NATURE. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
2. CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO THE START OF WORK.



2 ATTIC SECTION AT EF-2
1/2" = 1'-0"

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Sheet Title:

ATTIC MECHANICAL PLAN

APPLICATION # 1558

MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

Job Number:
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Approved By: RJS

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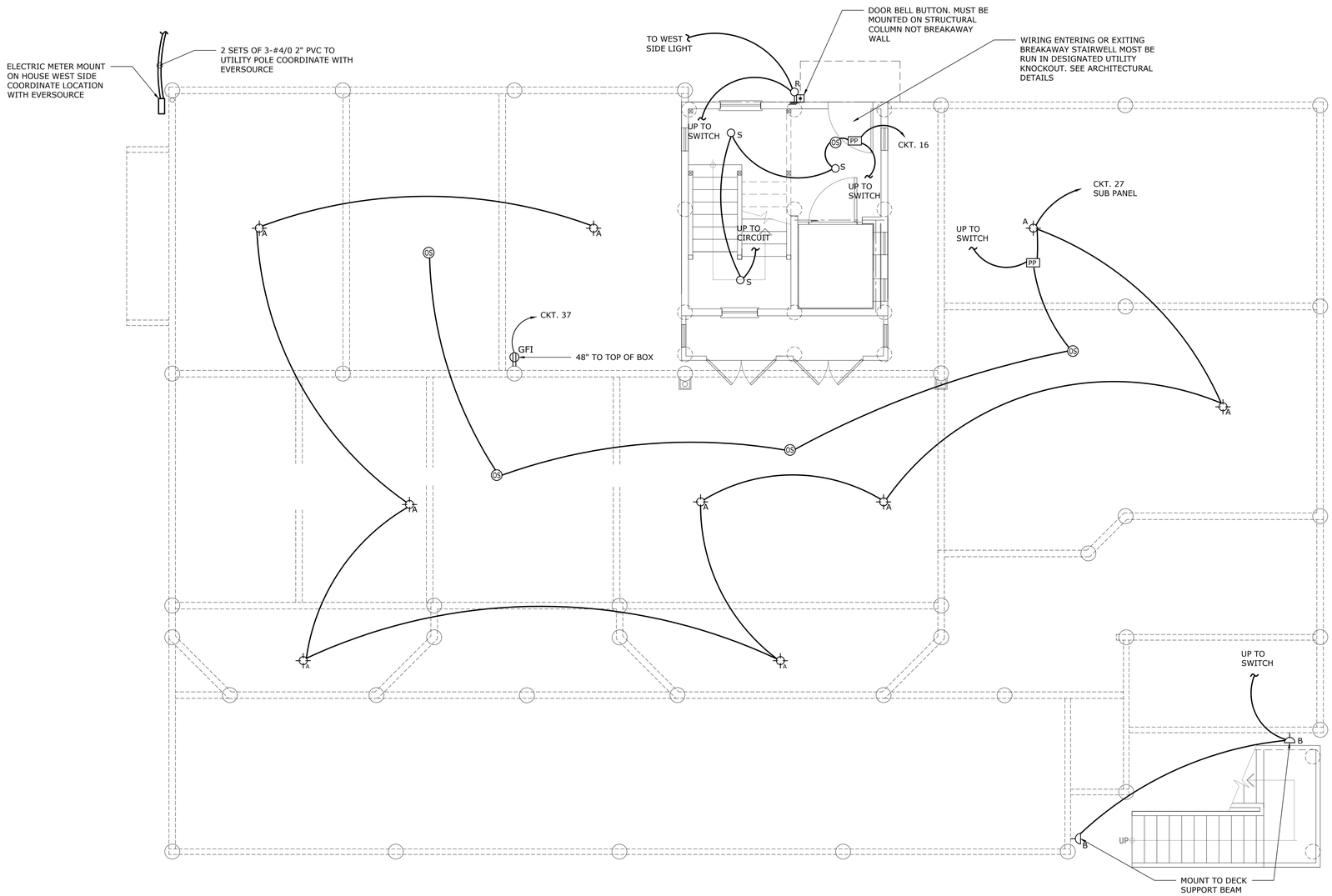
M-3



1 GROUND LEVEL ELECTRICAL
1/4" = 1'-0"

NOTES:

1. PROVIDE CIRCUITS FOR BATHROOM EXHAUST FANS FURNISHED, INSTALLED AND VENTED BY MECHANICAL CONTRACTOR.
2. PROVIDE PADDLE FAN RATED BOX FOR PADDLE FANS.
3. ALL CIRCUITS GO TO MAIN PANEL UNLESS OTHERWISE NOTED.
4. LIGHT FIXTURES IN EXERCISE ROOM SHALL BE RECESSED LUMINAIRES WITH A GLASS OR PLASTIC LENS, NONMETALLIC OR ELECTRICALLY ISOLATED METAL TRIM, AND SUITABLE FOR USE IN DAMP LOCATIONS OR SURFACE-MOUNTED LUMINAIRES WITH A GLASS OR PLASTIC GLOBE, A NONMETALLIC BODY, OR A METALLIC BODY ISOLATED FROM CONTACT, AND SUITABLE FOR USE IN DAMP LOCATIONS
5. ALL CIRCUITS IN EXERCISE ROOM TO BE GFI PROTECTED.
6. PROVIDE DIMMER SWITCHES COMPATIBLE WITH LIGHT FIXTURES.
7. THE GENERAL CONTRACTOR SHALL PROVIDE (INSTALLED AND READY FOR INTENDED USE) ALL LIGHT FIXTURES, FANS AND ASSOCIATED WIRING AS SHOWN ON THE DRAWINGS - ALL LIGHT FIXTURES SHALL BE LAMPED PER THE MANUFACTURER'S RECOMMENDATIONS.
8. THE GREAT ROOM LIGHT FIXTURE IS AN EXISTING PENDANT FIXTURE TO BE REMOVED FROM THE EXISTING HOUSE BEFORE DEMOLITION - THE OWNER WILL BOTH REMOVE AND REINSTALL THE FIXTURE - THE GENERAL CONTRACTOR SHALL PROVIDE FOR TWO CIRCUITS AS SHOWN ON THE ELECTRICAL DRAWING E-4
9. ALL RECESSED LIGHTING FIXTURES LOCATED IN INSULATED SPACES SHALL HAVE ENCLOSURES RATED FOR MOUNTING IN INSULATED SPACES.
10. MOST OF THE LIGHT FIXTURES INDICATED ON THE DRAWINGS WERE TAKEN FROM SELECTIONS MADE BY THE OWNER AT CONNECTICUT LIGHTING CENTERS (SOUTHINGTON AND HARTFORD) - REFER TO ORDER #216143 (SALES RECEIPT) FOR DAVID MADACSI, FOR ADDITIONAL INFORMATION CONCERNING THE ACTUAL FIXTURES.

NORTH

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Sheet Title:
GROUND LEVEL ELECTRICAL PLAN

APPLICATION # 1558

MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

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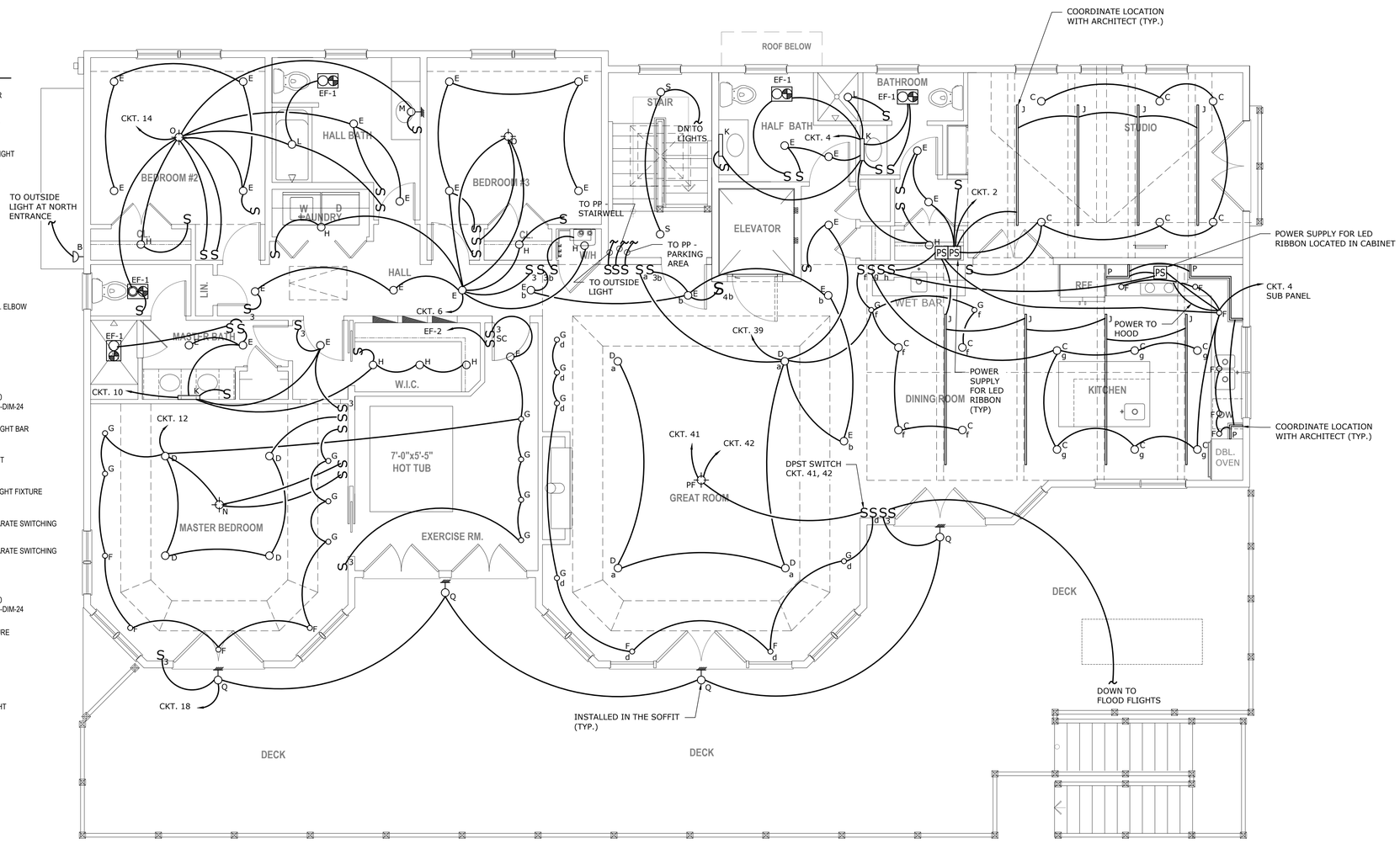
Drawn By: EMG
Approved By: REP

Sheet Number:
E-1

ELECTRIC LEGEND

- SPLIT WIRE DUPLEX / SWITCHED OUTLET
- RECEPTACLE / OUTLET
- GFI — GROUND FAULT INTERRUPTER RECEPTACLE / OUTLET
- WP — WEATHER PROOF OUTLET
- FP — FLOOR OUTLET
- SPEACIAL PURPOSE
- TELEPHONE / CAT5
- S — SINGLE POLE SWITCH
- S_3 — 2-WAY SWITCH
- S_4 — 3-WAY SWITCH
- 220 — 220 OUTLET (30 AMP)
- D — DEDICATED RECEPTACLE
- QUAD RECEPTACLE

- A — CLG. LIGHT FIXTURE W/ COVER SATS9366
- B — WALL MOUNTED FLOOD LIGHT WACWP-LED335-30-AWT
- C — 6" RECESSED SLOPED DOWNLIGHT HOUSING: COTRL38A-ICS TRIM: COTCTR3802SC-MW-MW
- D — 6" RECESSED DOWNLIGHT HOUSING: COTRL38-ICESA TRIM: COTCTR3002-MW-MW
- E — 5" RECESSED DOWNLIGHT HOUSING: COTRL530-ICSA TRIM: COTCTRS3002-MW-MW
- F — 3" RECESSED LIGHT HOUSING: COTLVR316-IC TRIM: COTCTR302-MW-MW
- G — 3" RECESSED LIGHT WITH ADJ. ELBOW HOUSING: COTLVR316-IC TRIM: COTCTR335-MW
- H — CLOSET LIGHT SAT62-1057
- J — LED RIBBON FOR BEAMS CHANNEL: GMLLED-CHL-W RIBBON: GMLLTR1200-24-HO-30 POWER SUPPLY: GMLLTHM300-DIM-24
- K — WALL MOUNTED BATHROOM LIGHT BAR ELA83737
- L — RECESSED SHOWER/TUB LIGHT WACHR-D418-WT
- M — WALL MOUNTED BATHROOM LIGHT FIXTURE ELA83793
- N — FAN W/ LIGHT - PROVIDE SEPARATE SWITCHING MIAF853BN/DK
- O — FAN W/ LIGHT - PROVIDE SEPARATE SWITCHING MIAF853LBN/DK
- P — LED RIBBON UNDER CABINET SCONCE: WACWS-W2505-WH RIBBON: GMLLTR1200-24-HO-30 POWER SUPPLY: GMLLTHM100-DIM-24
- Q — EXTERIOR SOFFIT LIGHT FIXTURE HOUSING: COTRL20 TRIM: SATS9713
- R — OUTDOOR WALL LANTERN QUORUM 7697-86
- S — FLUSH CEILING MOUNTED LIGHT QUORUM 3000-12-86
- PF — PENDENT FIXTURE
- EF-1 — CEILING MOUNTED COMBINATION LIGHT FIXTURE & EXHAUST FAN, NU-TONE OR EQUAL (50 CFM)
- J — JUNCTION BOX
- PP — POWER PACK GREENGATE SP20-RD4
- OS — OCCUPANCY SENSOR GREENGATE OAC-DT-2000
- S_a — LOWER CASE LETTER INDICATES SWITCH LEG
- A_a — UPPER CASE LETTER INDICATES FIXTURE TYPE LOWER CASE LETTER INDICATES SWITCH LEG



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

NOTES:

1. PROVIDE CIRCUITS FOR BATHROOM EXHAUST FANS FURNISHED, INSTALLED AND VENTED BY MECHANICAL CONTRACTOR.
2. PROVIDE PADDLE FAN RATED BOX FOR PADDLE FANS.
3. ALL CIRCUITS GO TO MAIN PANEL UNLESS OTHERWISE NOTED.
4. LIGHT FIXTURES IN EXERCISE ROOM SHALL BE RECESSED LUMINAIRES WITH A GLASS OR PLASTIC LENS, NONMETALLIC OR ELECTRICALLY ISOLATED METAL TRIM, AND SUITABLE FOR USE IN DAMP LOCATIONS OR SURFACE-MOUNTED LUMINAIRES WITH A GLASS OR PLASTIC GLOBE, A NONMETALLIC BODY, OR A METALLIC BODY ISOLATED FROM CONTACT, AND SUITABLE FOR USE IN DAMP LOCATIONS
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6. PROVIDE DIMMER SWITCHES COMPATIBLE WITH LIGHT FIXTURES.
7. THE GENERAL CONTRACTOR SHALL PROVIDE (INSTALLED AND READY FOR INTENDED USE) ALL LIGHT FIXTURES, FANS AND ASSOCIATED WIRING AS SHOWN ON THE DRAWINGS - ALL LIGHT FIXTURES SHALL BE LAMPED PER THE MANUFACTURER'S RECOMMENDATIONS.
8. THE GREAT ROOM LIGHT FIXTURE IS AN EXISTING PENDANT FIXTURE TO BE REMOVED FROM THE EXISTING HOUSE BEFORE DEMOLITION - THE OWNER WILL BOTH REMOVE AND REINSTALL THE FIXTURE - THE GENERAL CONTRACTOR SHALL PROVIDE FOR TWO CIRCUITS AS SHOWN ON THE ELECTRICAL DRAWING E-2
9. ALL RECESSED LIGHTING FIXTURES LOCATED IN INSULATED SPACES SHALL HAVE ENCLOSURES RATED FOR MOUNTING IN INSULATED SPACES.
10. MOST OF THE LIGHT FIXTURES INDICATED ON THE DRAWINGS WERE TAKEN FROM SELECTIONS MADE BY THE OWNER AT CONNECTICUT LIGHTING CENTERS (SOUTHINGTON AND HARTFORD) - REFER TO ORDER #216143 (SALES RECEIPT) FOR DAVID MADACSI, FOR ADDITIONAL INFORMATION CONCERNING THE ACTUAL FIXTURES.
11. WIRING FOR "J" AND "P" FIXTURES TO BE LOW VOLTAGE WIRING.

NORTH

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Sheet Title:

LIGHTING PLAN

APPLICATION # 1558

MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

Job Number:
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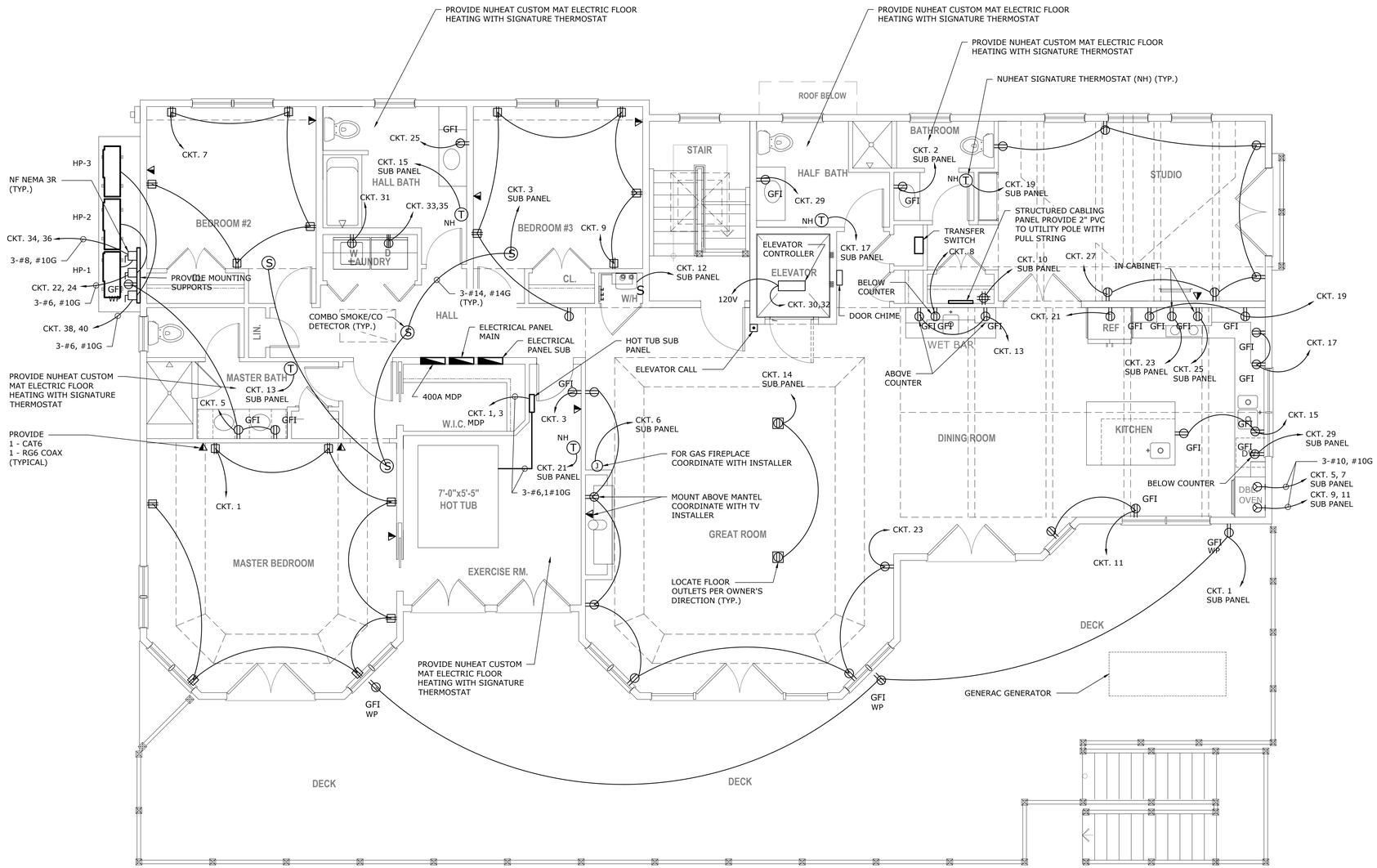

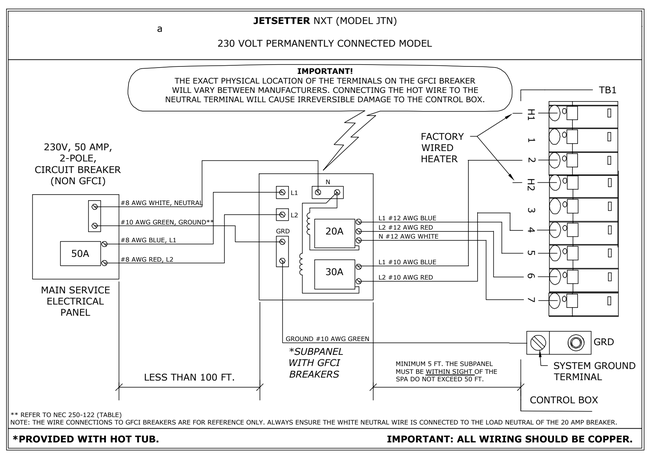

1 POWER PLAN
1/4" = 1'-0"

NOTES:

1. PROVIDE ARC FLASH CIRCUIT INTERRUPTER CIRCUIT BREAKER FOR CIRCUITS AS REQUIRED BY CODE.
2. PROVIDE GROUND FAULT CIRCUIT INTERRUPTERS AS REQUIRED BY CODE.
3. PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY CODE.
4. ALL CIRCUITS GO TO MAIN PANEL UNLESS OTHERWISE NOTED.
5. COORDINATE OVEN RECEPTACLE LOCATIONS AND CONFIGURATIONS WITH KITCHEN INSTALLER.
6. ALL CIRCUITS IN EXERCISE ROOM TO BE GFI PROTECTED.

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Comm No. 01MH6.03

Sheet Title:

POWER PLAN

APPLICATION # 1558

MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

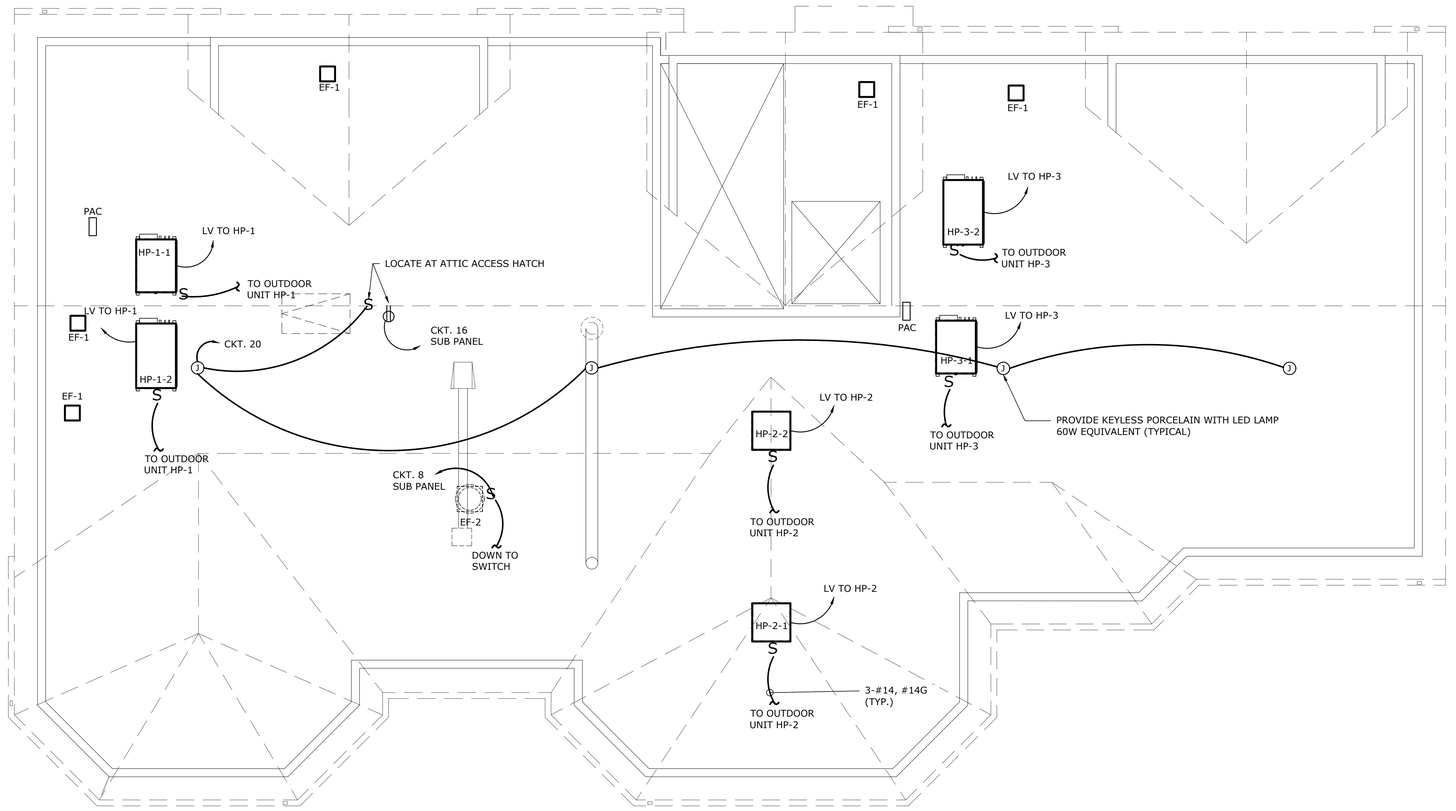
STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

Job Number:
Drawn By: EMG
Approved By: REP

Sheet Number:
E-3

NORTH



1 ATTIC ELECTRICAL PLAN
1/4" = 1'-0"

NOTES:

1. ALL CIRCUITS GO TO MAIN PANEL UNLESS OTHERWISE NOTED.
2. POWER AND LOW VOLTAGE CONTROL FEEDERS FROM HP-1-1, HP-1-2, HP-3-1 & HP-3-2 INDOOR UNITS RUN THROUGH PAC (MANIFOLDS) THEN TO COND. UNIT. TYPICAL FOR HP-1 AND HP-3.
3. POWER AND LOW VOLTAGE FEEDERS FOR HP-2-1 & HP-2-2 INDOOR UNITS TO RUN DIRECT TO HP-2

NORTH

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Sheet Title:

ATTIC ELECTRICAL PLAN

APPLICATION # 1558

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E-4

CIRCUIT SCHEDULE	
15A, 1P	2 - #14, #14G
20A, 1P	2 - #12, #12G
20A, 2P	2 - #12, #12G NO NEUTRAL
30A, 2P	2 - #10, #10G NO NEUTRAL
30A, 2P	3 - #10, #10G NEUTRAL
40A, 2P	3 - #8, #10G NEUTRAL
50A, 2P	3 - #6, #10G NEUTRAL

NOTES:

1. BREAKER CIRCUITS SHALL BE NM CABLE UNLESS OTHERWISE NOTED.

PANEL: MAIN

MOUNTING: FLUSH

120/240V, SINGLE PHASE, 3 WIRE
400A BUS MLO

GROUND BUS, HINGED TRIM, 10 KAIC

CIR	DESCRIPTION	KVA	C/B	A	B	C/B	KVA	DESCRIPTION	CIR
1	MASTER BEDROOM RECEPTACLES	-	15A			15A	-	STUDIO LIGHTING	2
3	EXERCISE ROOM RECEPTACLE	-	20A			15A	-	HALF BATH & STUDIO BATH LIGHTING	4
5	MASTER BATH RECEPTACLES	-	20A			15A	-	BEDROOM #3 & HALL LIGHTING	6
7	BEDROOM #2 RECEPTACLES	-	15A			20A	-	WET BAR RECEPTACLE	8
9	BEDROOM #3 & HALL RECEPTACLES	-	15A			15A	-	MASTER BATH LIGHTING	10
11	KITCHEN RECEPTACLES	-	20A			15A	-	MASTER BEDROOM & EXERCISE ROOM LIGHTING	12
13	WET BAR RECEPTACLES	-	20A			15A	-	BEDROOM #2 & HALL BATH LIGHTING	14
15	KITCHEN RECEPTACLES	-	20A			15A	-	STAIR LIGHTING	16
17	KITCHEN RECEPTACLES	-	20A			15A	-	SOFFIT DECK LIGHTING	18
19	KITCHEN RECEPTACLES	-	20A			15A	-	ATTIC LIGHTING	20
21	REFRIGERATOR RECEPTACLE	-	20A			40A	-	HP-2	22
23	GREAT ROOM RECEPTACLES	-	20A				-		24
25	HALL BATH RECEPTACLES	-	20A			150A	-	2P FEED TO SUB PANEL	26
27	STUDIO RECEPTACLES	-	20A				-		28
29	HALF BATH RECEPTACLES	-	20A			20A	-	ELEVATOR	30
31	WASHER	-	20A				-		32
33	DRYER	-	30A			50A	-	HP-1	34
35		-					-		36
37	OUTDOOR RECEPTACLES	-	20A			50A	-	HP-3	38
39	GREAT ROOM & DINING ROOM LIGHTING	-	15A				-		40
41	GREAT ROOM CHANDELIER	-	15A			15A	-	GREAT ROOM CHANDELIER	42

PANEL: SUB PANEL

MOUNTING: FLUSH

120/240V, SINGLE PHASE, 3 WIRE
200A BUS MLO

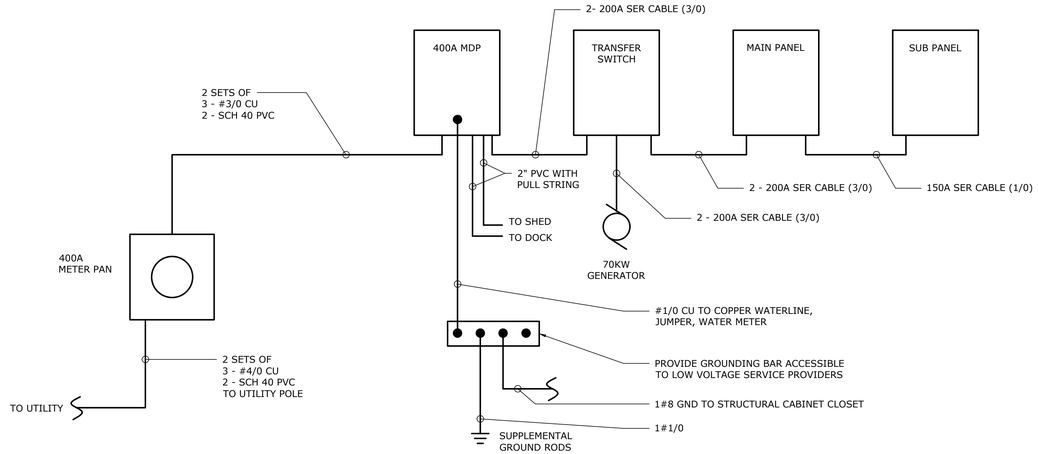
GROUND BUS, HINGED TRIM, 10 KAIC

CIR	DESCRIPTION	KVA	C/B	A	B	C/B	KVA	DESCRIPTION	CIR
1	DECK RECEPTACLE	-	20A			20A	-	STUDIO BATHROOM RECEPTACLE	2
3	SMOKE DETECTORS	-	15A			15A	-	KITCHEN LIGHTING	4
5	STEAM OVEN	-	30A			20A	-	GAS FIREPLACE	6
7		-				20A	-	EF-2	8
9	OVEN	-	20A			20A	-	CLOSET QUAD RECEPTACLE	10
11		-				20A	-	WATER HEATER	12
13	ELECTRIC FLOOR HEATING MASTER BATHROOM	-	20A			20A	-	GREAT ROOM FLOOR RECEPTACLES	14
15	ELECTRIC FLOOR HEATING HALL BATHROOM	-	20A			20A	-	ATTIC RECEPTACLE	16
17	ELECTRIC FLOOR HEATING HALF BATHROOM	-	20A						18
19	ELECTRIC FLOOR HEATING STUDIO BATHROOM	-	20A						20
21	ELECTRIC FLOOR HEATING EXERCISE ROOM	-	20A						22
23	BURNER RANGETOP	-	15A						24
25	HOOD	-	15A						26
27	UNDER HOUSE CEILING LIGHTS	-	15A						28
29	DISHWASHER	-	20A						30

1 PANEL SCHEDULES
NTS

NOTES:

1. PROVIDE GFCI CIRCUIT BREAKERS FOR CIRCUITS AS REQUIRED BY CODE.



2 RISER DIAGRAM
NTS

PANEL: MDP

MOUNTING: SURFACE

120/240V, SINGLE PHASE, 3 WIRE
400A BUS
400A MAIN CIRCUIT BREAKER
GROUND BUS, HINGED TRIM, 10 KAIC

CIR	DESCRIPTION	KVA	C/B	A	B	C/B	KVA	DESCRIPTION	CIR
1	HOT TUB SUB PANEL	-	50A			200A		TRANSFER SWITCH	2
3		-							4
5	SHED	-	20A			30A		DOCK	6
7		-							8
9	DOCK	-	30A						10
11		-							12
13	DOCK	-	30A						14
15		-							16
17		-							18

3 PANEL SCHEDULE
NTS

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PANEL SCHEDULE

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E-5

DIVISION 15000 - MECHANICAL

PART 1 - GENERAL

1.1 PIPE HANGERS AND SUPPORTS SHALL MEET THE REQUIREMENTS OF MSS SP-69 AND SP-89 DEVELOPED BY THE MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVES AND FITTINGS INDUSTRY INC.

1.2 SEISMIC SUPPORTS AND RESTRAINTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL MEET STATE BUILDING CODE REQUIREMENTS AND SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES.

1.3 GENERAL PIPING REQUIREMENTS:

A. ALL PIPING SHALL BE RUN PARALLEL TO THE LINE OF THE BUILDING.

B. PITCH OF LINES SHALL BE UNIFORM AND TRUE WITH NO SAGS, POCKETS OR TRAPS. ECCENTRIC FITTINGS SHALL BE USED WHERE NECESSARY TO PROVIDE COMPLETE DRAINAGE.

C. PROVIDE ISOLATION VALVES AT ALL CONNECTIONS TO FIXTURES AND ALL BRANCH TAKE-OFFS.

D. PROVIDE MANUAL VENT VALVES AT ALL HIGH POINTS AND DRAIN VALVES AT ALL LOW POINTS.

E. SCREWED PIPE JOINTS SHALL BE MADE WITH TEFLON PIPE THREAD TAPE OR APPROVED PIPE JOINT COMPOUND.

1.4 GENERAL DUCTWORK REQUIREMENTS:

A. ALL DUCTWORK SHALL BE INSTALLED STRAIGHT AND PARALLEL TO LINE OF BUILDING AND SHALL BE SUBSTANTIALLY SUPPORTED AS REQUIRED BY SMACNA MANUALS.

B. DUCT SIZES SHOWN SHALL BE STRICTLY FOLLOWED AND NO CHANGES IN SHAPE OR DIMENSIONS SHALL BE MADE BY THE CONTRACTOR WITHOUT FIRST OBTAINING APPROVAL FROM THE ENGINEER. WHERE DUCTS MUST BE OFFSET TO CLEAR STRUCTURAL MEMBERS AND, IF NECESSARY TO ALTER DIMENSIONS OF THE DUCTS, THIS MAY BE DONE PROVIDED THE CROSS-SECTIONAL AREA IS IN NO CASE REDUCED.

C. ALL DUCT RUNS SHALL BE CHECKED FOR CLEARANCES BEFORE INSTALLATION OF ANY DUCTWORK. ABOVE HUNG CEILINGS, DUCT LOCATIONS AND ELEVATIONS MUST BE COORDINATED WITH WORK OF OTHER TRADES TO AVOID CONFLICTS WITH EXISTING DUCTWORK, PIPING, CONDUIT AND RECESSED FIXTURES. CLEARANCES BELOW DUCTS IN EQUIPMENT ROOMS AND AREAS WITHOUT HUNG CEILINGS MUST BE ADEQUATE FOR ACCESS AND MAINTENANCE OF EQUIPMENT.

D. INSTALL FLEXIBLE DUCT CONNECTIONS AT INLET AND DISCHARGE DUCT CONNECTIONS TO FANS.

E. INSTALL MINIMUM 10" X 12" ACCESS DOOR FOR INSPECTION IN DUCTS AT ALL DUCT MOUNTED ACCESSORIES, CONTROL COMPONENTS AND WHERE SHOWN ON THE DRAWINGS.

1.5 TESTING:

A. ALL PIPING SYSTEMS INSTALLED UNDER THIS CONTRACT SHALL BE PRESSURE TESTED WITH CLEAN WATER, UNLESS NOTED OTHERWISE, TO INSURE TIGHTNESS.
1. HOT AND COLD WATER SUPPLY PIPING SHALL BE TESTED TO 150 PSIG.
2. DRAINAGE AND VENT PIPING SHALL BE TESTED TO 10 FOOT HEAD OF WATER.
3. PROPANE PIPING SHALL BE TESTED IN ACCORDANCE WITH NFPA 54. TEST PRESSURE SHALL BE 3 PSIG. TEST MEDIUM SHALL BE AIR, NITROGEN OR CARBON DIOXIDE.
4. REFRIGERATION PIPING SHALL BE TESTED TO 200 PSIG. TEST MEDIUM SHALL BE NITROGEN.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL PLUGS, PIPING, VALVES, HOSES, AND PUMPS NECESSARY FOR THE REQUIRED TESTS AND FOR PROPER DISPOSAL OF THE TEST MEDIUM UPON COMPLETION OF THE TESTS.

1.6 CLEANING OF THE PIPING SYSTEMS:

A. UPON COMPLETION OF ALL WORK AND SATISFACTORY TESTING, ALL PIPING SYSTEMS (EXCEPT REFRIGERATION AND GAS PIPING) SHALL BE FLUSHED WITH WATER TO REMOVE DIRT, GRIT, CHIPS AND FOREIGN MATTER. GAS PIPING SHALL BE PURGED OF AIR IN ACCORDANCE WITH NFPA 54.

B. WATER FOR FLUSHING SHALL BE USED IN SUFFICIENT QUANTITY TO PRODUCE A VELOCITY OF AT LEAST 2.5 FEET PER SECOND. FLUSHING SHALL CONTINUE UNTIL DISCHARGE WATER SHOWS NO DISCOLORATION OR EVIDENCE OF FOREIGN MATERIALS.

C. DURING FLUSHING OPERATION, ALL VALVES SHALL BE OPERATED SEVERAL TIMES, BYPASSES OPENED AND EQUIPMENT FLUSHED.

D. UPON COMPLETION OF FLUSHING OPERATIONS, ALL STRAINERS, FILTERS AND BLOWDOWNS SHALL BE REMOVED AND CLEANED OF ACCUMULATED WASTE.

E. CARE SHOULD BE TAKEN TO INSURE THE COMPLETE REMOVAL OF ALL WATER FROM THE LINE OR SYSTEM AFTER TESTING. IF THERE IS ANY DANGER OF CONTAMINATION OR FREEZING, BLOW OUT THE FLUID WITH DRY, OIL-FREE AIR.

1.7 CLEANING AND STERILIZATION OF POTABLE WATER SYSTEM: PURGE OF DELETERIOUS MATTER AND DISINFECT PRIOR TO USE. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY HAVING JURISDICTION, OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C652 OR AWWA C5186.

1.8 INSULATION FOR REFRIGERANT PIPING SHALL BE FLEXIBLE ELASTOMERIC CELLULAR, ARMSTRONG ARMAFLEX AP OR APPROVED EQUAL. SEAMS AND JOINTS SHALL BE SEALED WITH MANUFACTURERS ADHESIVE. ALL INSULATION SHALL BE FINISHED WITH MANUFACTURERS FINISH. INSULATION THICKNESS AT SUCTION LINE AND LIQUID LINE SHALL BE 1-1/2".

1.9 PIPE INSULATION SHALL BE RIGID, HEAVY DENSITY, PREFORMED GLASS FIBER, WITH ALL SERVICE JACKET. JACKET SHALL HAVE PRESSURE SENSITIVE TAPE CLOSURE. BUTT JOINTS SHALL HAVE 3" WIDE TAPE OF SAME MATERIAL. VALVES AND FITTINGS SHALL BE INSULATED WITH ZESTON, OR APPROVED EQUAL, INSULATED PVC, ONE PIECE, SNAP-TYPE COVERS AND ZESTON 1 1/2" Z-TAPE, 10 MIL. EXTERIOR INSULATED PIPES SHALL HAVE ALUMINMUM JACKET. INSULATION THICKNESS AS FOLLOWS:

	SYSTEM	INSULATION THICKNESS
A.	DOMESTIC COLD WATER EXTERIOR TO BLDG ENVELOPE	2"
B.	DOMESTIC COLD WATER	1-1/2"
C.	DOMESTIC HOT WATER AND TEMPERED HW	1-1/2"

1.10 DUCT INSULATION:

A. MATERIALS SHALL BE AMNVILLE, OWENS/CORNING. CERTAINEED OR APPROVED EQUAL.

B. INSULATION FOR SUPPLY AND RETURN AIR DUCTWORK SHALL BE 1-1/2", 1 LB. NOMINAL DESNSITY FIBERGLASS BLANKET WITH FSK JACKET APPLIED AS RECOMMENDED BY THE MANUFACTURER.

1.11 PIPE IDENTIFICATION:

A. ALL PIPING SHALL BE IDENTIFIED WITH NAME AND FLOW DIRECTION ARROWS. MARKERS SHALL BE PLACED EVERY 40 LINEAL FEET ON STRAIGHT RUNS, AT CHANGES IN DIRECTION, AND AT WALL PENETRATIONS (BOTH SIDES).

B. PIPE MARKERS SHALL BE EQUAL TO SETMARK, AS MANUFACTURED BY SETON NAMEPLATE CO.
1. TEXT AND BACKGROUND COLORS SHALL FOLLOW ANSI A13.1.

PART 2 - PLUMBING

2.1 WATER PIPING: SHALL BE TYPE L HARD DRAWN COPPER TUBING CONFORMING TO ASTM B88, WITH ASME B16.22 WROUGHT COPPER FITTINGS, ASTM B32 SOLDER GRADE 95TA JOINTS. PEX PIPING WITH ASSOCIATED FITTINGS ALLOWED FOR INDIVIDUAL RUNOUTS FROM HEADER.

2.2 BURIED DRAINAGE PIPING: SANITARY AND VENT PIPING SHALL BE CENTRIFUGALLY SPUN, BELL AND SPIGOT, SERVICE WEIGHT, CAST IRON PIPE, TAR COATED CONFORMING TO ASTM A74. FITTINGS SHALL BE MADE OF SAME MATERIAL AS PIPE AND SHALL BE COMPATIBLE WITH IT. JOINTS SHALL BE MADE USING NEOPRENE RUBBER GASKET FOR PUSH-ON JOINTING.

2.3 ABOVE GROUND DRAINAGE PIPING: SANITARY AND VENT PIPING SHALL BE CENTRIFUGALLY SPUN, BELL AND SPIGOT, SERVICE WEIGHT "NO HUB" CAST IRON PIPE, TAR COATED, CONFORMING TO ASTM A74. FITTINGS SHALL BE MADE OF SAME MATERIAL AS PIPE AND SHALL BE COMPATIBLE WITH IT. JOINTS SHALL BE MADE USING NEOPRENE SEALING SLEEVE AND A 4-BAND STAINLESS STEEL SHIELD WITH TIGHTENING DEVICE.

2.4 PROPANE PIPING: PROPANE PIPING SHALL BE SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53. FITTINGS SHALL BE 150 LB MALLEABLE IRON SCREWED CONFORMING TO ASTM B16.3. JOINTS SHALL BE THREADED OR WELDED IN ACCORDANCE WITH ANSI B31.2 AND NFPA 54.

2.5 VALVES SHALL BE AS FOLLOWS:

A. BALL VALVES: 2" AND SMALLER - JAMESBURY CLINCHER SERIES 2000.

B. PLUG VALVES: 2" AND SMALLER - DEZURIK SERIES 100.

2.6 WATER HAMMER ARRESTERS: TYPE "K" HARD DRAWN COPPER BARREL, BRASS PISTON AND THREADED ADAPTER. NORMAL OPERATING PRESSURE 35 TO 250 PSIG. WATER HAMMER ARRESTERS SHALL BE PRECISION PLUMBING PRODUCTS INC., SC SERIES, MODEL SC500 OR EQUAL.

2.7 PLUMBING FIXTURES (OR APPROVED EQUAL):

A. SEE FIXTURE SCHEDULE ON PLANS.

B. CLOTHES WASHER CONNECTION: SYMMONS LAUNDRY-MATE MODEL W-602 WITH BRASS WATER CONTROL VALVES AND DRAIN.

2.8 PLUMBING EQUIPMENT

A. DOMESTIC WATER HEATER SHALL BE ENERGY STAR RATED, PACKAGED, WALL MOUNTED, NATURAL GAS-FIRED, TANKLESS, ULTRA HIGH EFFICIENCY (0.96 ENERGY FACTOR), CONDENSING TYPE, NAVIEN MODEL NPE-210A OR APPROVED EQUAL. PROVIDE WITH INTEGRAL DDC CONTROLS, FULLY MODULATING BURNER WITH DIRECT SPARK IGNITION, DUAL STAINLESS STEEL HEAT EXCHANGERS, GAS VALVE WITH SAFETIES, PLUMB EASY VALVE SET, DIRECT VENT WITH OUTDOOR VENT KIT AND CONDENSATION NEUTRALIZATION KIT. HEATER SHALL BE DESIGNED FOR USE WITH 115V/1-PHASE POWER. CAPACITY SHALL BE 19,900 TO 180,000 BTUH.

B. WATER HEATER FLUE AND COMBUSTION AIR INTAKE SHALL BE SCHEDULE 40 CPVC WITH SOLVENT WELD FITTINGS.

PART 3 - HVAC

3.1 HEAT PUMPS

A. HP-1/ACC-1: REMOTE INVERTER DUTY RATED HEAT PUMP EQUAL TO MITSUBISHI MODEL MXZ-4C36NAHZ PIPED TO ONE HORIZONTAL DUCTED INDOOR UNIT EQUAL TO MITSUBISHI MODEL SEZ-KD15NA4 AND ONE HORIZONTAL DUCTED INDOOR UNIT EQUAL TO MITSUBISHI MODEL SEZ-KD18NA4. SYSTEM SHALL BE DESIGNED FOR USE WITH 230V, SINGLE-PHASE POWER. PROVIDE SYSTEM WITH HAND HELD WIRELESS ZONE CONTROLLERS AND MODEL PAC-USWHS002 WF-1 WIRELESS INTERFACE FOR EACH INDOOR UNIT. SYSTEM CAPACITY SHALL BE 36,200 MBH COOLING AND 42,100 MBH HEATING WITH A DESIGN INDOOR EAT OF 80 DEG F DB/67 DEG F WB WITH AN OUTDOOR OF 86 DEG F FOR COOLING AND AN INDOOR EAT OF 70 DEG F WITH OUTDOOR OF 5 DEG F FOR HEATING.

B. HP-2/ACC-2: REMOTE INVERTER DUTY RATED HEAT PUMP EQUAL TO MITSUBISHI MODEL MXZ-2C20NAHZ2 PIPED TO TWO INDOOR UNITS EQUAL TO MITSUBISHI MODEL SLZ-KA09NA. SYSTEM SHALL BE DESIGNED FOR USE WITH 230V, SINGLE-PHASE POWER. PROVIDE SYSTEM WITH HAND HELD WIRELESS ZONE CONTROLLERS AND MODEL PAC-USWHS002 WF-1 WIRELESS INTERFACE FOR EACH INDOOR UNIT. SYSTEM CAPACITY SHALL BE 18,300 MBH COOLING AND 20,700 MBH HEATING WITH A DESIGN INDOOR EAT OF 80 DEG F DB/67 DEG F WB WITH AN OUTDOOR OF 86 DEG F FOR COOLING AND AN INDOOR EAT OF 70 DEG F WITH OUTDOOR OF 5 DEG F FOR HEATING.

C. HP-3/ACC-3: REMOTE INVERTER DUTY RATED HEAT PUMP EQUAL TO MITSUBISHI MODEL MXZ-4C36NAHZ PIPED TO ONE HORIZONTAL DUCTED INDOOR UNIT EQUAL TO MITSUBISHI MODEL SEZ-KD15NA4 AND ONE HORIZONTAL DUCTED INDOOR UNIT EQUAL TO MITSUBISHI MODEL SEZ-KD18NA4. SYSTEM SHALL BE DESIGNED FOR USE WITH 230V, SINGLE-PHASE POWER. PROVIDE SYSTEM WITH HAND HELD WIRELESS ZONE CONTROLLERS AND MODEL PAC-USWHS002 WF-1 WIRELESS INTERFACE FOR EACH INDOOR UNIT. SYSTEM CAPACITY SHALL BE 36,200 MBH COOLING AND 42,100 MBH HEATING WITH A DESIGN INDOOR EAT OF 80 DEG F DB/67 DEG F WB WITH AN OUTDOOR OF 86 DEG F FOR COOLING AND AN INDOOR EAT OF 70 DEG F WITH OUTDOOR OF 5 DEG F FOR HEATING.

3.2 EXHAUST FANS

A. EF-1: DELTA BREEZSIGNATURE SIG80-110LED, 80/110 CFM .3 SONES 13 WATT LED, DIMMABLE WITH NITE LIGHT. PROVIDE WITH ROOF VENTS.

B. EF-2: ROOF MOUNTED, CENTRIFUGAL FAN SHALL BE DIRECT DRIVE, ACOUSTICALLY INSULATED AND AMCA CERTIFIED. PROVIDE FAN WITH BACKDRAFT DAMPER WITH ELECTRICAL ACTUATOR, WIRING PIGTAIL, REMOTE MOUNTED SPEED CONTROLLER AND ROOF CURB. FAN SHALL BE EQUAL TO GREENHECK MODEL G-070-D RATED FOR 225 CFM AT 0.25" W.G. USING 120V/SINGLE-PHASE POWER.

C. KH-1: PROVIDED AS PART OF ALLOWANCE FOR OWNER SELECTED LIGHTING FIXTURES. PROVIDE WITH ROOF VENTS

3.3 PIPING

A. REFRIGERANT PIPING SHALL BE TYPE L ACR COPPER TUBING WITH WROUGHT COPPER FITTINGS AND 95/5 SOLDERED JOINTS.

3.4 DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. PROVIDE TURNING VANES WHERE SQUARE ELBOWS ARE USED, ACCESS DOORS AT ALL DUCT MOUNTED CONTROL DEVICES AND VOLUME DAMPERS AS REQUIRED FOR PROPER BALANCING OF THE SYSTEM. FLEXIBLE DUCT SHALL BE THERMAFLEX MODEL M-KF WITH 1 1/2" INSULATION, UL 181 LISTING AND MAXIMUM LENGTH OF 8'-0".

3.5 DIFFUSERS, REGISTERS AND GRILLES:

A. SUPPLY DIFFUSERS SHALL BE TITUS MODEL TMSA OF STEEL CONSTRUCTION WITH MODEL AG-75 OPPOSED BLADE DAMPER AND ADJUSTABLE LOUVER VANES. SIZE AND CAPACITY AS NOTED ON THE DRAWINGS.

B. SUPPLY REGISTERS SHALL BE TITUS MODEL 272RS OF STEEL CONSTRUCTION WITH MODEL AG-35 OPPOSED BLADE DAMPER AND ADJUSTABLE VANES IN THE HORIZONTAL AND VERTICAL DIRECTIONS. SIZE AND CAPACITY AS NOTED ON THE DRAWINGS.

C. RETURN AIR GRILLES SHALL BE TITUS MODEL 50F EGG-CRATE TYPE WITH 1/2" ALUMINUM GRID AND OPPOSED BLADE DAMPER. SIZE AND CAPACITY AS NOTED ON THE DRAWINGS

3.6 CONTROLS: ELECTRONIC CONTROLS SHALL INCLUDE THERMOSTATS, CONTROL PANELS, RELAYS, TRANSFORMERS, SENSORS AND ACCESSORIES AS REQUIRED TO PERFORM THE SEQUENCES AS DESCRIBED BELOW. INSTALLATION OF CONDUIT, CONDUCTORS AND ELECTRICAL DEVICES SHALL CONFORM TO DIVISION 16000 - ELECTRICAL.

A. SEQUENCES-OF-OPERATION:

1. BATHROOM EXHAUST FANS SHALL OPERATE UPON ACTIVATION OF ROOM LIGHT SWITCH, FAN SHALL OPERATE ON HIGH SPEED SUBJECT TO A (ADJ.) TIME DELAY.

2. KITCHEN HOOD FAN SHALL OPERATE UPON ACTIVATION OF ROOM SWITCH.

3. HEAT PUMP SHALL START AND MODULATE THE COMPRESSOR TO MAINTAIN SETPOINT (70 DEG HEATING/75 DEG F COOLING, ADJUSTABLE) AS MEASURED AT THE ROOM SENSOR. WIRELESS CONTROL SHALL BE AVAILABLE USING MITSUBISHI KUMO CLOUD APP.

PART 4 - EXECUTION

4.1 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK INCLUDING SIZES OF PIPING TO BE RE-USED. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DIFFERENCES FROM THE DESIGN DOCUMENTS ARE NOTED.

4.2 CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF WORK.

4.3 ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

4.4 CONTRACTOR SHALL INSTRUCT HOMEOWNER ON THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AT THE COMPLETION OF CONSTRUCTION AT A TIME CONVENIENT TO THE OWNER.

4.5 CONTRACTOR SHALL PROVIDE TWO COPIES OF PROJECT O&M MANUALS TO THE OWNER AT COMPLETION OF PROJECT.

DIVISION 16000 - ELECTRICAL

WORK INCLUDED - THE WORK TO BE PROVIDED UNDER THIS DIVISION INCLUDES:

A. FEEDERS AND PANELS.

B. POWER WIRING FOR MECHANICAL AND PLUMBING EQUIPMENT.

SCOPE - THIS WORK SHALL CONSIST OF THE FURNISHING OF ALL LABOR, MATERIALS AND SERVICES REQUIRED COMPLETE, READY FOR CORRECTION OPERATION, ALL ELECTRICAL WORK CALLED FOR BY THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS. ALL ELECTRICAL SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.

PERMITS, FEES AND INSPECTIONS - THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY ALL GOVERNMENTAL AND STATE SALES TAXES AND FEES APPLICABLE. THE CONTRACTOR SHALL FILE ALL DRAWINGS, AND OBTAIN ALL NECESSARY APPROVAL FROM PROPER AUTHORITY OR AGENCY HAVING JURISDICTION, OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION COVERING HIS WORK. THE CONTRACTOR SHALL SEE THAT ALL REQUIRED INSPECTIONS AND TESTS ARE MADE AND SHALL COOPERATE TO MAKE THESE TESTS AS THOROUGH AND AS READILY MADE AS POSSIBLE.

COORDINATION - ALL WORK SHALL BE CARRIED OUT IN CONJUNCTION WITH OTHER TRADES AND FULL COOPERATION SHALL BE GIVEN IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE.

GUARANTEES - ALL WORKMANSHIP AND MATERIALS SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL COMPLETION OF THE ENTIRE INSTALLATION COVERED BY THIS CONTRACT. SHOULD ANY DEFECTS OCCUR DURING THIS GUARANTEE PERIOD, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE EQUIPMENT, MATERIALS AND/OR WORK WITHOUT COST TO THE OWNER.

TEMPORARY LIGHT AND POWER - FURNISH AND INSTALL TEMPORARY ELECTRICAL POWER AND LIGHTING FOR USE BY ALL CONTRACTORS DURING THE COURSE OF CONSTRUCTION. ALL TEMPORARY WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE ARTICLES IN THE NATIONAL ELECTRICAL CODE, O.S.H.A. AND WITH ALL REQUIREMENTS OF ANY AUTHORITIES HAVING JURISDICTION OVER WORK.

MATERIALS AND WORKMANSHIP - ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW AND OF FIRST-CLASS QUALITY AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL AND SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS ACCEPTED BY THE ARCHITECT SHALL BE FURNISHED. ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR THE UNDERWRITER'S LABEL. ALL WORK SHALL BE OF A QUALITY CONSISTENT WITH GOOD TRADE PRACTICE AND SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY WORK WHICH, IN HER OPINION, HAS BEEN INSTALLED IN A SUB-STANDARD, DANGEROUS OR UNSERVICEABLE MANNER. THE CONTRACTOR SHALL REPLACE SAID WORK IN A SATISFACTORY MANNER AT NO EXTRA CHARGE TO THE OWNER.

PENETRATION SEALANT - ALL PENETRATIONS SHALL BE SEALED WITH 3M INTUMESCENT FIRE BARRIER PENETRATION SEALANT, APPLIED PER MANUFACTURER'S AND U.L. GUIDELINES.

NUHEAT CABLE SYSTEM INSTALLATION GUIDE:

1. THE INSTALLATION OF THIS HEATING PRODUCT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND AS PERMITTED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
2. THIS EQUIPMENT SHALL BE INSTALLED ONLY BY QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE APPARATUS AND RISKS INVOLVED.
3. GUARD AGAINST RISK OF ELECTRIC SHOCK, FIRE AND BODILY INJURY DURING THE INSTALLATION OF THIS EQUIPMENT.
4. NUHEAT CABLE SHALL BE CONNECTED TO A DEDICATED ELECTRICAL CIRCUIT.
5. IT IS MANDATORY TO INSTALL A CLASS "A" GFCI OR GFCI CIRCUIT BREAKER WITH EACH NUHEAT INSTALLATION. NUHEAT THERMOSTATS ARE EQUIPPED WITH CLASS "A" GFCI PROTECTION.
6. DE-ENERGIZE POWER CIRCUITS BEFORE INSTALLATION OR SERVICING.
7. DO NOT USE SHARP TOOLS OR POWER TOOLS TO CLEAN GROUT LINES.
8. NUHEAT CABLE GUIDES AND NUHEAT MEMBRANE ARE THE ONLY ACCESSORIES APPROVED TO SECURE NUHEAT CABLE ONTO THE SUBFLOOR.
9. INDICATE ON THE ELECTRICAL PANEL WHICH CIRCUIT IS USED FOR THE NUHEAT CABLE SYSTEM.
10. SUBFLOOR MUST BE PREPARED IN ACCORDANCE WITH ANSI SPECIFICATIONS.
11. NUHEAT CABLE CANNOT BE OVERLAPPED, CROSSED, CUT, SHORTENED OR MODIFIED.
12. ENTIRE HEATING PORTION OF NUHEAT CABLE & MECHANICAL JOINT MUST BE SECURED TO THE FLOOR AND COVERED WITH SELF-LEVELING COMPOUND OR THINSET MORTAR.
13. DO NOT INSTALL NUHEAT CABLE IN DIRECT CONTACT WITH ANY COMBUSTIBLE SURFACES AND DO NOT INSTALL IN / ON / UNDER WALLS OR IN CLOSETS.
14. FOR CONCRETE SLAB SUBFLOORS, INSULATE THE SLAB PRIOR TO INSTALLING NUHEAT CABLE. INSULATION WILL IMPROVE THE UPWARD HEAT TRANSFER FROM THE CABLE TO THE FLOORING SURFACE.
15. THE NUHEAT CABLE SYSTEM SHOULD NEVER BE INSTALLED OVER AN EXPANSION JOINT.
16. THE AMBIENT AIR TEMPERATURE MUST BE ABOVE 10°C OR 50°F WHEN THE NUHEAT CABLE SYSTEM IS INSTALLED.
17. NUHEAT CABLE MUST NOT EXTEND BEYOND THE ROOM OR AREA IN WHICH IT ORIGINATES.
18. CABLE IS INTENDED FOR INDOOR EMBEDDED FLOOR HEATING APPLICATIONS (-X) AS WELL AS IN GENERAL USE AND WET LOCATIONS (-W) IN CANADA AND US.
19. MINIMUM SPACING BETWEEN CABLE RUNS FOR 12 WATTS/SQ FT IS 3". FOR 15 WATTS/SQ FT, SPACING BETWEEN CABLE RUNS MUST ALTERNATE 3"/2".
20. IF INSTALLING NUHEAT CABLE WITH NUHEAT MEMBRANE, MINIMUM SPACING BETWEEN HEATING CABLE RUNS IS 2.5" (64MM) OR TWO PILLARS OF THE NUHEAT MEMBRANE.
21. THE MINIMUM BENDING RADIUS OF THE HEATING CABLE IS 0.5" (12MM).
22. KEEP ENDS OF HEATING DEVICES & KIT COMPONENTS DRY BEFORE AND DURING INSTALLATION.
23. THE SHEATH OF THIS DEVICE SHALL NOT BE UTILIZED AS A GROUNDING CONDUCTOR, BUT MUST BE BONDED TO THE GROUND.
24. NUHEAT CABLE IS NOT FOR INSTALLATION IN POOL AND SPA AREAS, NOR OUTDOOR USE.
25. DO NOT PLACE OBJECTS DIRECTLY ON TOP OF THE FLOOR THAT COULD IMPEDE/TRAP HEAT EMANATING FROM THE FLOOR HEATING SYSTEM INCLUDING BUT NOT LIMITED TO FLUSH-TO-FLOOR FURNITURE, RUBBER OR MEMORY FOAM MATS, AND MATTRESSES. THESE OBJECTS COULD CAUSE UNSAFE TEMPERATURES TO BE REACHED UNDERNEATH THESE OBJECTS WHICH MAY CAUSE DAMAGE TO THE OBJECT AND/OR THE FLOORING MATERIAL.

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Sheet Title:

SPECIFICATIONS

APPLICATION # 1558

MADACSI RESIDENCE
53 Roseleah Drive
Mystic,Connecticut

STATE OF CONNECTICUT
DEPARTMENT OF HOUSING
COMMUNITY DEVELOPMENT BLOCK GRANT
DISASTER RECOVERY PROGRAM
(CDBG-DR)

Date: 15TH OF MARCH 2019

Job Number:
Drawn By: RJS/REP
Approved By: RJS/REP

Sheet Number:

SP-1

DIVISION 16000 - ELECTRICAL (CONT.)

PART 1 GENERAL

1.1 DESCRIPTION

A. NEW POWER DISTRIBUTION SYSTEM

B. POWER AND CONTROL WIRING

C. NEW LIGHTING SYSTEM

1.2 CONFORM TO THE REQUIREMENTS OF THE CONNECTICUT STATE BUILDING AND FIRE SAFETY CODES, INCLUDING BUT NOT LIMITED TO, THE FOLLOWING:

A. NFPA 70 - NATIONAL ELECTRICAL CODE (NEC).

1.3 ALL ELECTRICAL EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND LISTED AS SUITABLE FOR THE PURPOSE BY UNDERWRITERS' LABORATORIES OR FACTORY MUTUAL.

PART 2 PRODUCTS

2.1 WIRE AND CABLE

A. 600 VOLT WIRE SHALL HAVE STRANDED (CLASS B) SOFT, ANNEALED COPPER CONDUCTORS. INSULATION SHALL BE 600V, THHN/THWN, 75°C FOR NO. 6 AND SMALLER; XHHW, 75°C, FOR NO. 4 AND LARGER.

B. TYPE NM CABLE SHALL HAVE SOLID COPPER CONDUCTORS WITH 600 VOLT, 90°C, TYPE THHN/THWN INSULATION. 30 MIL-THICK PVC (POLYVINYL CHLORIDE) JACKET APPLIED OVER THE COMPLETE ASSEMBLY, JACKET COLORS: 14-2, 14-2-2 & 14-3 W/GROUND: WHITE 12-2, 12-2-2 & 12-3 W/GROUND: YELLOW 10-2 & 10-3 W/GROUND: ORANGE 8 AWG OR LARGER: BLACK

2.2 CONDUIT

A. ELECTRIC METALLIC TUBING (EMT) SHALL BE ZINC COATED STEEL.

B. RIGID NON-METALLIC CONDUIT (RNC) SHALL BE PVC SCHEDULE 40.

C. LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) SHALL BE THE TYPE UL® LIQUIDTIGHT FLEXIBLE STEEL CONDUIT SHALL BE FORMED FROM A ZINC COATED GALVANIZED LOW CARBON STEEL STRIP HAVING A UNIFORM WIDTH AND THICKNESS. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH UL® 360 AND CSA C22.2 NUMBER 56 REQUIREMENTS. THE FINISHED TYPE LFMC DIMENSIONS SHALL BE IN ACCORDANCE WITH TABLE 5.1 OF UL® 360 AND TABLE 2 OF CSA C22.2 NO. 56. A RUGGED MOISTURE, OIL AND SUNLIGHT RESISTANT POLYVINYL CHLORIDE (PVC) JACKET SHALL BE APPLIED DIRECTLY OVER THE FLEXIBLE METAL CONDUIT WITH A WALL THICKNESS IN ACCORDANCE WITH TABLE 4.1 OF UL® 360 AND TABLE 4 OF CSA C22.2 NO.56 WHICH ARE SUMMARIZED IN TABLE 2. JACKET COLORS: GREY.

D. USE COMPRESSION TYPE COUPLINGS FOR EMT.

2.3 BOXES

A. OUTLET BOXES FOR SURFACE MOUNTED SWITCHES AND RECEPTACLES SHALL BE TYPE FD, CAST FERROALLOY WITH THREADED HUBS. PROVIDE GASKETED COVER AS REQUIRED.

B. RECESSED OUTLET BOXES SHALL BE NONMETTALIC DESIGNED FOR USE WITH NM SHEATHED CABLE IN ACCORDANCE WITH NEC ARTICLE 314, COMPLY WITH UL FILE NO. E42728, UL FILE NO. R8326.

2.4 RECEPTACLES

A. DESCRIPTION: SPECIFICATION GRADE, 125VAC, NEMA 5-15R, 5-20R UNLESS NOTED OTHERWISE. COLOR SHALL BE WHITE UNLESS NOTED OTHERWISE.

2.5 SWITCHES

A. SPECIFICATION GRADE, 120-277VAC 20 AMP. COLOR SHALL BE WHITE.

2.6 RECEPTACLE AND SWITCH COVER PLATES SHALL BE SMOOTH THERMOPLASTIC COLOR TO MATCH DEVICE.

2.7 LOADCENTERS

A. LOADCENTERS: UL LISTED CIRCUIT BREAKER TYPE.

B. LOADCENTER BUS: TIN-PLATED ALUMINUM, RATINGS AS INDICATED. PROVIDE GROUND BUS IN EACH LOADCENTER.

C. MINIMUM SHORT CIRCUIT RATING: 10,000 AMPERES RMS SYMMETRICAL FOR 240 VOLT LOADCENTERS.

D. MOLDED CASE CIRCUIT BREAKERS: NEMA AB 1. PROVIDE CIRCUIT BREAKERS WITH INTEGRAL THERMAL AND INSTANTANEOUS MAGNETIC TRIP IN EACH POLE. PROVIDE CIRCUIT BREAKERS UL LISTED AS TYPE HACR FOR AIR CONDITIONING EQUIPMENT BRANCH CIRCUITS.

E. CABINET FRONT: SURFACE OR FLUSH TYPE AS NOTED ON DRAWINGS, FASTENED WITH SCREWS. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL.

F. SEE DRAWINGS FOR RATINGS OF LOADCENTERS.

2.8 PHOTOELECTRIC CONTROLS

A. DESCRIPTION: CADMIUM SULFIDE CELL, 1 INCH DIAMETER IN A DIE-CAST ZINC ENCLOSURE WITH CONTROL CONTACTS IN A WEATHER-PROOF ENCLOSURE.

B. OPERATING TEMPERATURE RANGE: -40°F TO +120°F.

C. CONTACTS: SPST, 1800VA BALLAST LOAD AT 120 VOLTS. NORMALLY CLOSED CONTACT (FAILS IN THE ON POSITION).

D. TURN ON AT 1.5 TO 5 FOOTCANDLES; TURN OFF AT APPROXIMATELY 3 TIMES TURN ON.

E. EQUAL TO TORK MODEL NO. 2101.

2.9 ENCLOSED SWITCHES

A. FUSIBLE AND NON-FUSIBLE SWITCHES SHALL BE NEMA KS-1, TYPE GENERAL DUTY, ENCLOSED LOAD INTERRUPTER SWITCH WITH EXTERNALLY OPERABLE HANDLE, INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION. HANDLE LOCKABLE IN OFF POSITION. FUSIBLE SWITCH SHALL ACCEPT ONLY UL CLASS (R) (J) FUSES. FUSES SHALL BE (UL CLASS RK-1, TIME-DELAY) (UL CLASS RK-5, TIME-DELAY) (UL CLASS J, TIME-DELAY).

B. SWITCH RATINGS, ENCLOSURE TYPE AND FUSE SIZE ARE INDICATED ON THE DRAWINGS.

2.10 FUSES

A. FUSES 250 VOLTS SHALL BE DUAL ELEMENT, TIME DELAY, CURRENT LIMITING, UL TYPE (RK 1) (RK 5), 200,000 AMPS RMS SYMMETRICAL SHORT CIRCUIT RATING. FUSES SHALL BE EQUAL TO BUSSMANN (LPN-RK) (FRN-R).

2.11 INTERIOR LUMINARIES

A. ALL LUMINARIES SHALL BE FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. PROVIDE MOUNTING BOXES AND BRACKETS AS REQUIRED FOR A COMPLETE INSTALLATION.

B. SEE OWNERS PURCHASE ORDER FOR LUMINAIRE SCHEDULE.

2.12 ACCEPTABLE MANUFACTURER'S LIST

A. ELECTRICAL EQUIPMENT SCHEDULE WITH SIZES, PERFORMANCE, ETC., IS SHOWN ON DRAWINGS. ALL EQUIPMENT SHALL BE EQUAL IN GRADE, STYLE AND QUALITY TO THAT INDICATED SPECIFIED OR SCHEDULED, AND SHALL BE LIMITED TO MANUFACTURERS LISTED BELOW:

1) LOADCENTERS: GENERAL ELECTRIC, SIEMENS, SQUARE D, EATON.

2) DISCONNECT SWITCHES: GENERAL ELECTRIC, SIEMENS, SQUARE D, EATON.

3) 600V WIRES AND CABLES: GENERAL CABLE, SOUTHWIRE, OKONITE.

4) METAL CONDUIT: REPUBLIC, ALLIED TUBE AND CONDUIT, WHEATLAND.

5) FITTINGS: APPLETON, CROUSE-HINDS, O/Z GEDNEY, STEEL CITY, THOMAS & BETTS.

6) CONNECTORS (WIRE & CABLE): BUCHANAN, BURNDY, SKOTCHLOK, THOMAS & BETTS, TREGO, IDEAL.

7) OUTLET BOXES: APPLETON, EATON, BELL, THOMAS & BETTS, STEEL CITY.

8) PULL AND JUNCTION BOXES: HOPE, HOFFMAN, NJ SULLIVAN, THE REYNOLDS COMPANY.

9) CHANNELS, SUPPORTS AND RACEWAY: B-LINE, SUPERSTRUT, UNISTRUT.

2.13 GENERAL WIRING REQUIREMENTS

A. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

B. JOINTS OR TERMINATIONS SHALL BE MADE WITH SOLDERLESS POSITIVE PRESSURE CONNECTIONS. JOINTS AND FREE ENDS, UNLESS PROPERLY INSULATED BY CONNECTORS, SHALL BE WRAPPED WITH TAPE IN A MANNER THAT MAKES THEIR INSULATION EQUAL TO THE ORIGINAL INSULATION OF THE CONDUCTOR.

C. MINIMUM SIZED CONDUIT UNLESS NOTED, SHALL BE 3/4". TYPE OF CONDUIT SHALL BE AS FOLLOWS:

1) FEEDER CIRCUITS: SCHEDULE 40 PVC.

2) FINAL CONNECTIONS TO VIBRATING EQUIPMENT, MOTORS, ETC. LIQUID TIGHT FLEXIBLE METAL CONDUIT (SEALTITE) WITH APPROVED GROUND CONTINUITY FITTINGS.

D. PULL AND JUNCTION BOXES SHALL BE INSTALLED AS REQUIRED BY CODE AND CONTRACTOR'S CONVENIENCE AS NECESSARY TO PULL IN WIRES, WHETHER SHOWN ON DRAWINGS OR NOT.

E. WIRING IN PANELS, WIREWAYS, STARTERS, ETC. SHALL BE NEATLY TRAINED AND SECURED WITH PLASTIC CABLE TIES. CONNECTIONS TO TERMINALS SHALL BE WITH SQUARE BEND AND SERVICE LOOP.

2.14 IDENTIFICATION

A. PROVIDE AND INSTALL MARKERS FOR ALL CONDUITS. MARKERS SHALL BE "BRADY" TYPE ADHESIVE-BACKED, PLASTIC-FACED OF SUITABLE COLOR. MARKER SHALL IDENTIFY SYSTEM AND ELECTRICAL CHARACTERISTICS. INSTALL MARKERS AT POINT OF ORIGIN, TERMINATION, ADJACENT TO EACH INTERMEDIATE SPLICE, AND ALL BOXES IN RUN.

2.15 TESTING

A. UPON COMPLETION OF HIS WORK, CONTRACTOR SHALL CONDUCT (WITH OTHER RELATED CONTRACTORS) OPERATING TESTS OF ALL ELECTRICALLY OPERATED OR CONTROLLED EQUIPMENT FOR APPROVAL AT SUCH TIME AS THE OWNER MAY DIRECT. EQUIPMENT SHALL OPERATE IN ACCORDANCE WITH THE REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS. TESTS SHALL BE PERFORMED IN THE PRESENCE OF OWNER. THE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS, AND INSTRUMENTS REQUIRED FOR ELECTRICAL PORTION OF TESTS. DEFECTIVE MATERIALS AND WORKMANSHIP DISCLOSED BY TEST SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.

2.16 PROTECTIVE PAINTING

A. TOUCH-UP FACTORY PAINTED EQUIPMENT THAT HAS BEEN DAMAGED DURING HANDLING OR INSTALLATION. FEATHER DAMAGED AREA AND APPLY PRIMER PLUS TWO FRESH COATS TO MATCH EXISTING FINISH.

2.17 GENERATOR AND AUTOMATIC TRANSFER SWITCH

A. GENERAL

1) PROVIDE AN AUTOMATIC START GENERATOR AND AUTOMATIC TRANSFER SWITCH(ATS) MANUFACTURED BY THE SAME COMPANY.

B. CONTACT HUNTINGTON POWER EQUIPMENT 230 LONG HILL CROSS RD, SHELTON, CT 06484 203-929-3203

1) GENERAC AIR COOLED NATURAL GAS OR LP GAS GENERATOR CONSISTING OF THE FOLLOWING FEATURES AND ACCESSORIES:
2) 22 KW RATING, WIRED FOR 120/240 VAC SINGLE PHASE, 60 HZ
3) UL2200 LISTED
4) EPA CERTIFIED
5) DIGITAL CONTROL PANEL
6) SOUND ATTENUATED WEATHER PROTECTIVE ALUMINUM ENCLOSURE
7) BATTERY & BATTERY CABLES
8) 120V BATTERY CHARGER
9) 100A CIRCUIT BREAKER
10) 5-YEAR FACTORY WARRANTY
11) ONSITE STARUP & BUILDING LOAD TRANSFER TEST

C. AUTOMATIC TRANSFER SWITCH CONSISTING OF THE FOLLOWING COMPONENTS:
1) RATED AT 200A, 2 POLE, SOLID NEUTRAL
2) SERVICE ENTRANCE RATED
3) OPERATING AT 120/240 VAC, 1PH, 60HZ
4) NEMA 3R ENCLOSURE
5) UL 1008 LISTED

END OF SECTION

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SP-2