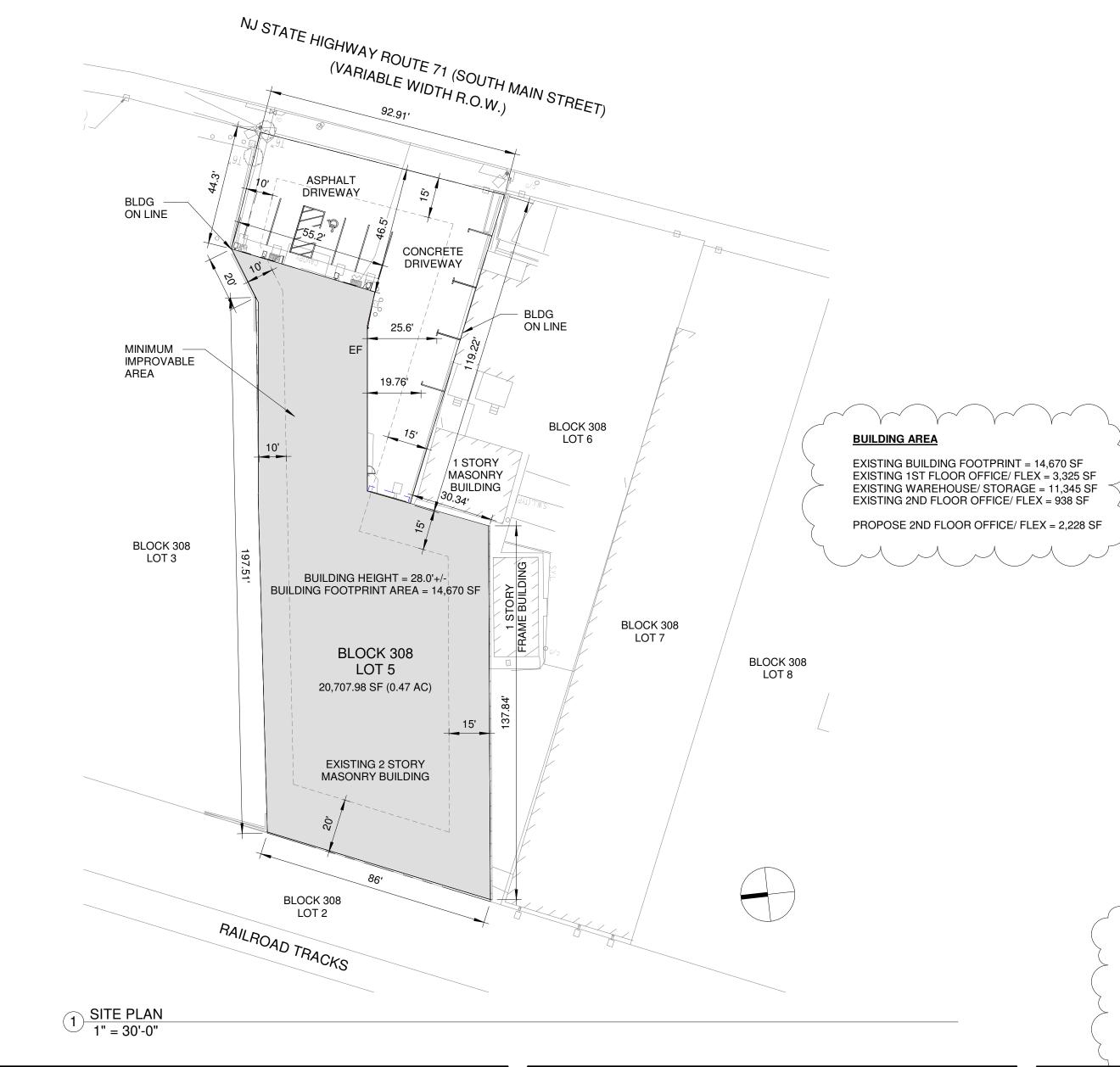


STATE HIGHWAY ROUTE NO 33 /

~ SOUTH MAIN STREET ~

DOUGLAS DEVELOPMENT CORPORATION



DRAWING LIST				
DWG#	DRAWING TITLE	DATE		
.C100	COVER SHEET	11/16/2020		
.C101	ADA GUIDELINES	05/20/2020		
.C102	SPECIFICATIONS	05/20/2020		
.LS100	LIFE SAFETY PLAN	05/20/2020		
A100	FLOOR PLANS	11/16/2020		
A101	ROOF PLAN	05/20/2020		
A200	ELEVATIONS	05/20/2020		
A300	SECTIONS	05/20/2020		
E100	ELECTRICAL PLAN	05/20/2020		
M100	MECHANICAL SPECIFICATIONS AND NOTES	05/20/2020		
M101	MECHANICAL PLAN	05/20/2020		
S100	FRAMING PLAN	05/20/2020		

Z	ONING AN	NALYSIS				
NEPTUNE TOWNSHIP						
BLOCK: 308LOT: 5		LOT AREA: .47 ACR	E (20,707.98 SF)			
BUILDING ZONE: C-6						
BUILDING USE: COMMER	BUILDING USE: COMMERCIAL					
ZONING SC	HEDULE B - ZONING DIS	STRICT BULK REGULA				
	MIN. REQUIRED	EXISTING	PROPOSED			
LOT AREA (SF):	15,000	20,707.98	NO CHÂNGE			
MAX F.A.R.:	0.6	.75^	.86			
LOT WIDTH (FT):	100	92.91^	NO CHANGE			
LOT FRONTAGE (FT):	100	55.2^	NO CHANGE			
LOT DEPTH (FT):	100	249.5	NO CHANGE			
FRONT SETBACK (FT):	15	44.3	NO CHANGE			
SIDE SETBACK (FT):	0/10	0	NO CHANGE			
COMBINED SIDE (FT):	25	0^	NO CHANGE			
REAR SETBACK (FT):	20	0^	NO CHANGE			
MAX % BLDG COVER:	35%	70.8%^	NO CHANGE			
MAX % LOT COVER:	80%	100%^	NO CHANGE			
MAX # OF STORIES:	3	2	NO CHANGE			
MAX BLDG HEIGHT	48	28	NO CHANGE			
MIN IMPROVABLE AREA (M.I.A. IN SF)	7,200	11,565	NO CHANGE			
M.I.A DIAMETER OF CIRCLE (FT)	55	58	NO CHANGE			
DENOTES PRE-EXISTING NONCONFORMING CONDITIONS						
TOWNSHIP OF NEPTUNE - LAND DEVELOPMENT ORDINANCE SECTION 412.17 - PARKING REQUIREMENTS: WAREHOUSE (ACCESSORY) 1 SPACE / 2,500 SF OF GROSS FLOOR AREA (11,345 / 2,500 = 5 SPACES)						

PROJECT CONTACTS

0 VICINITY MAP 1" = 100'-0"

PROJECT CONTACTS				
OWNER / DEVELOPER DOUGLAS DEVELOPMENT CORPORATION 702 H STREET NW, SUITE 400 WASHINGTON, DC 20001 T: 202.638.6300	ATTORNEY			
E: info@douglasdev.com ARCHITECT MODE ARCHITECTS, LLC 619 LAKE AVENUE, 3RD FLOOR ASBURY PARK, NJ 07712 DANIEL M. CONDATORE, RA T: 732.800.1958 E: dcondatore@mode-arch.com	CIVIL			
STRUCTURAL	GEOTECHNICAL ENGINEER			
MECHANICAL, ELECTRICAL, & PLUMBING	LANDSCAPE ARCHITECT			

BUILDING CODE ANALYSIS

APPLICABLE BUILDING CODES
- PRIMARY: NJAC 5:23-6 REHABILITATION SUBCO
- INTERNATIONAL BUILDING CODE/2018, NJ EDITI

ION - INTERNATIONAL MECHANICAL CODE/2018 - NATIONAL ELECTRICAL CODE (NFPA)/2017 NATIONAL STANDARD PLUMBING CODE/2018, NJ EDITION ICC/ANSI A117.1-2009, BARRIER FREE SUBCODE - ASHRAE 90.1-2016 ENERGY SUBCODE - INTERNATIONAL FUEL GAS CODE/2018

USE AND OCCUPANCY CLASSIFICATION OCCUPANCY GROUP B - BUSINESS (PRIMARY)

S - STORAGE (ACCESSORY)

DINUMUWAY

V-B (FULLY SPRINKLERED) TYPE OF CONSTRUCTION

HEIGHT AND AREA CALCULATION

TYPE OF CONSTRUCTION: V-B OCCUPANCY GROUP: S-2

COMPLIES

ALLOWABLE HEIGHT PER **TABLE 504.3** = 60 FEET ALLOWABLE STORIES PER **TABLE 504.4** = 3 STORIES ALLOWABLE AREA PER **TABLE 506.2** = 40,500 SF

EGRESS CALCULATIONS

PER **TABLE 1006.3.3(2)**:

REQUIRED EGRESS WIDTH CALCULATIONS PER SECTION 1005.3: CAPACITY FACTOR= 0.20 INCHES DOORS (0.30 INCHES STAIRS) = (OCCUPANCY LOAD) x (CAPACITY FACTOR)

SECTION 1010.1.1: MINIMUM WIDTH FOR EGRESS DOOR: 32" CLEAR SECTION 1020.4: MAXIMUM DEAD-END CORRIDOR: 50 FEET

ONE EXIT IS PERMITTED, PROVIDED THE OCCUPANT LOAD DOES NOT EXCEED 49 ON THE 1ST FLOOR, AND 29 ON THE 2ND FLOOR

MAXIMUM EXIT ACCESS DISTANCE, W/ SPRINKLER: 75 FEET COMPLIES

ABOVE FINISHED FLOOR **BOTTOM OF** NUMBER CONCRETE NOT TO SCALE COUNTERTOP O.C. ON CENTER DEGREES REQ'D. REQUIRED DETAIL **RADIUS** DRAWING TONGUE AND GROOVE **ELEVATION** TOP OF **EQUAL TYPICAL** EXISTING UNLESS NOTED -OTHERWISE-**FLOOR** VINYL COMPOSITION TILE FIRE RATED VERIFY IN FIELD GAUGE **VENT THROUGH ROOF GYPSUM BOARD HOLLOW METAL** MAXIMUM APPROXIMATE DIMENSION

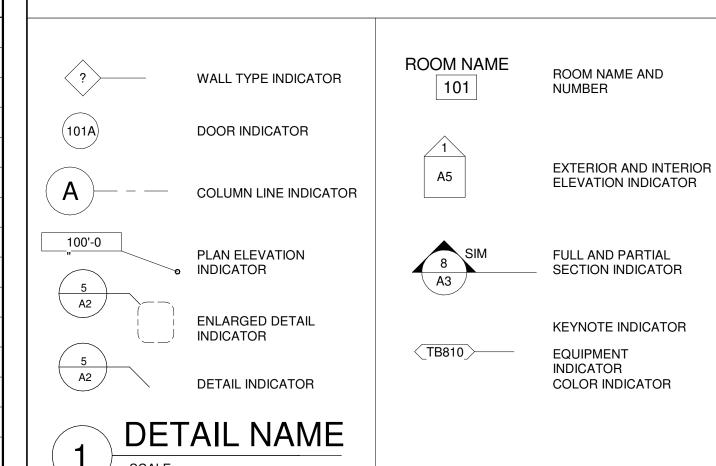
ARCHITECTURAL ABBREVIATIONS

SYMBOLS LEGEND

SPACES PROVIDED: 8 < 14 required (variance required)

1 SPACE/ 800 SF OF GRÓSS FLOOR AREA (6,491/ 800 = 9 SPACES)

OFFICE/ FLEX (PRIMARY)



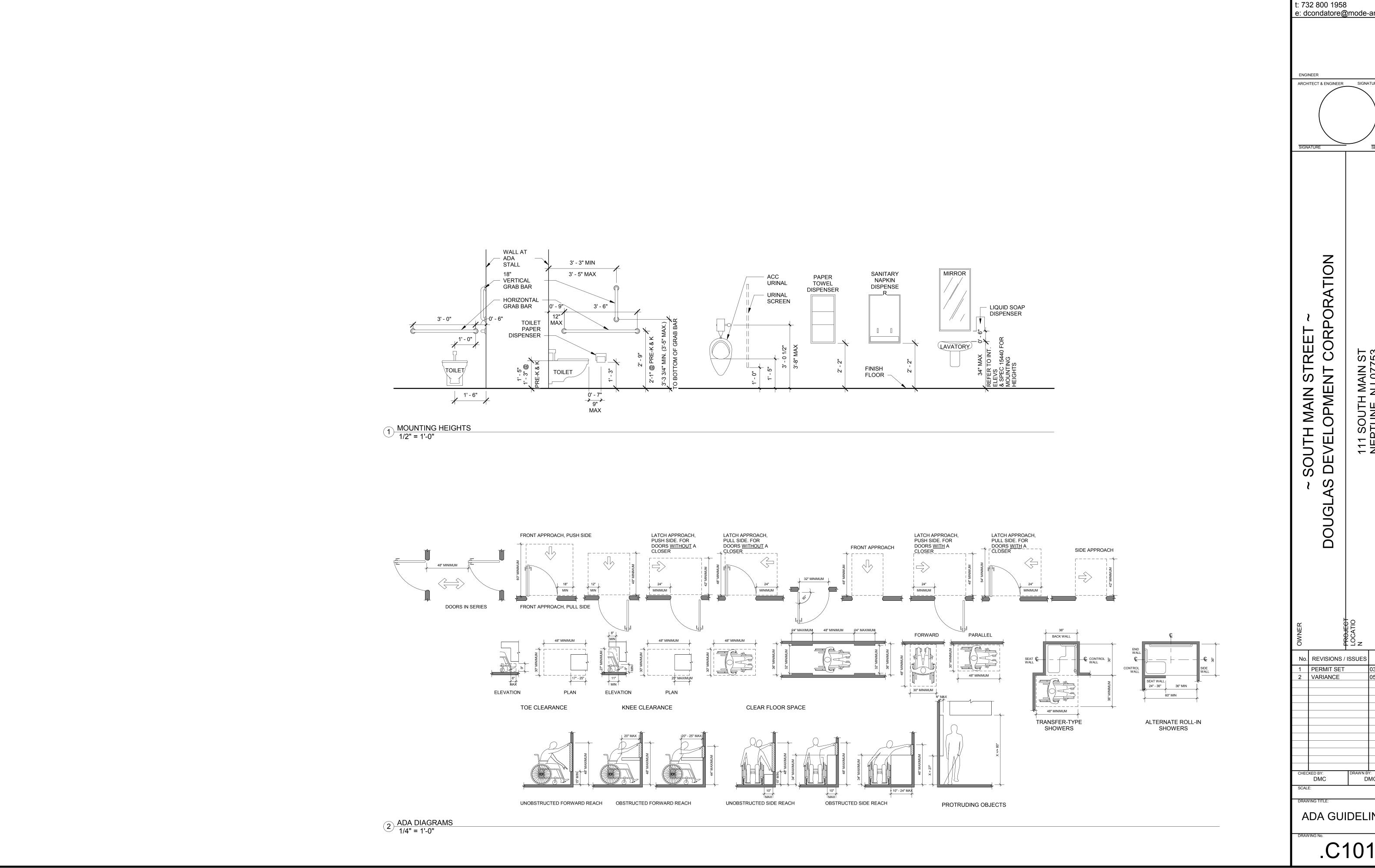
619 LAKE AVE/ 3RD FLOOF ASBURY PARK, NJ 07712 NJ LICENSE #21AI0798000 t: 732 800 1958 e: dcondatore@mode-arch.com

ARCHITECT & ENGINEER

No. REVISIONS / ISSUES DATE PERMIT SET 03/23/2020 05/20/2020

VARIANCE **REVISION 1** DMC **COVER SHEET**

.C100



DANIEL M. CONDATORE, RA
619 LAKE AVE/ 3RD FLOOR
ASBURY PARK, NJ 07712
NJ LICENSE #21AI0798000
t: 732 800 1958
e: dcondatore@mode-arch.com ARCHITECT & ENGINEER ___ SIGNATURE & SEAL BOX SEAL DATE No. REVISIONS / ISSUES DATE 03/23/2020 05/20/2020 DMC **ADA GUIDELINES**

1. GENERAL DESCRIPTION OF THE WORK THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, TRANSPORTATION, TEMPORARY HEAT, LIGHT, EQUIPMENT, SCAFFOLDING AND TOOLS AND SERVICES REQUIRED FOR THE COMPLETE AND PROPER SHAPING OF THE WORK IN STRICT CONFORMITY WITH DRAWINGS AND SPECIFICATIONS. ALL WORK OF ALL TRADES INCLUDE IN THE SPECIFICATIONS SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER, EQUAL TO THE BEST IN CURRENT SHOP AND FIELD PROCEDURE. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL BATTER BOARDS OR REFERENCE POINTS AT THE JOB. THE CONTRACTOR SHALL ALSO ERECT AND MAINTAIN TEMPORARY SANITARY FACILITIES FOR THE USE OF ALL WORKMEN AND VISITORS TO THE JOB, AND SHALL REMOVE SAME AT THE COMPLETION OF THE PROJECT.

NOTE: THE WORD "CONTRACTOR" AS IT APPEARS IN THESE SPECIFICATIONS SHALL APPLY EQUALLY TO ANY SUB CONTRACTOR ENGAGED IN ANY PART OF THE

THE CONTRACT DOCUMENTS CONSIST OF THE DRAWINGS, SPECIFICATIONS AND AGREEMENT. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ONE SHALL BE AS BINDING AS IF CALLED BY ALL. THE INTENT AND PURPOSE OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL LABOR, MATERIALS EQUIPMENT, TRANSPORTATION AND HANDLING NECESSARY FOR THE COMPLETE AND PROPER EXECUTION OF THE WORK.

3. PERMITS AND INSPECTIONS

THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES AND REGULATIONS GOVERNING THE CONDUCT OF THE WORK AND INSPECTIONS. PERMITS AND CERTIFICATE OF OCCUPANCY ARE TO BE PAID FOR BY OWNER.

CONTRACTOR'S LIABILITY INSURANCE

THE CONTRACTOR SHALL INSURE HIMSELF AGAINST CLAIMS UNDER WORKMEN'S COMPENSATION ACTS AND FROM ALL OTHER CLAIMS FOR DAMAGE FOR PERSONAL INJURY, INCLUDING DEATH, WHICH MAY ARISE FROM OPERATING UNDER THIS CONTRACT, WHETHER SUCH OPERATIONS BE BY HIMSELF OR BY ANY SUB CONTRACTOR OR BY ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY EITHER OF THEM. CERTIFICATES OF SUCH INSURANCE SHALL BE FURNISHED AND SHALL BE SUBJECT TO THE OWNER'S APPROVAL FOR ADEQUACY OF PROTECTION.

THE OWNER SHALL MAINTAIN FIRE INSURANCE WITH EXTENDED COVERAGE UPON THE ENTIRE STRUCTURE DURING CONSTRUCTION, SAME TO BE INCREASED AS THE BUILDING PROGRESSES. THE CONTRACTOR SHALL BE REIMBURSED FOR ANY/ALL LOSSES TO THE BUILDING DURING CONSTRUCTION AS COVERED BY THE FOREGOING UNLESS FIRE IS DETERMINED AS RESULT OF CONSTRUCTION. IF IS A RESULT OF CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR ALL NEW AND EXISTING CONSTRUCTION ALONG WITH ALL MISC. DAMAGES.

THE CONTRACTOR SHALL DO ALL CUTTING, FITTING AND PATCHING THAT MAY BE REQUIRED IN HIS WORK OR BY ANY CONTRACTORS AND SHALL ALSO MAKE GOOD AFTER THEM, DOING ALL PATCHING AND REPAIRING NECESSARY.

THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH AND AT THE COMPLETION OF THE WORK ALL ROOMS AND SPACES SHALL BE LEFT BROOM CLEAN, ALL PLUMBING FIXTURES SHALL BE CLEANED AND ALL WINDOWS WASHED AT THE END OF ALL WORK ON THE PROJECT.

THE CONTRACTOR GUARANTEES THAT ALL LABOR AND MATERIALS ON THIS CONTRACT SHALL BE FREE FROM DEFECTS AND AGREES TO MAKE GOOD AND REPAIR AT HIS EXPENSE UPON RECEIPT OF REQUEST FROM THE OWNER AND TO HIS SATISFACTION ALL DEFECTS MANIFEST IN THE WORK WITHIN ONE YEAR AFTER COMPLETION OF THE CONTRACT.

SUB CONTRACTORS WHERE APPLICABLE, ALL SUB CONTRACTORS ENGAGE ON THE PROJECT SHALL BE LICENSED AS REQUIRED BY STATE AND LOCAL AUTHORITIES.

1. WORK INCLUDED THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHINGS, ALL EQUIPMENT AND PERFORMING ALL NECESSARY LABOR TO DO ALL EXCAVATING WORK SHOWN OR REQUIRED.

IF GROUND INCAPABLE OF SUPPORTING THE STRUCTURAL FOUNDATION SHOWN IS ENCOUNTERED, THE EXTRA WORK INVOLVED SHALL BE CHARGED TO THE OWNER AT THE CONTRACTOR'S COST.

3. ROCK ANY BOULDERS LESS THAN THREE CUBIC YARDS ENCOUNTERED IN EXCAVATING SHALL BE REMOVED BY THE CONTRACTOR WITHOUT COST TO THE OWNER. ROCK EXCAVATION WILL BE ALLOWED FOR AT A SEPARATE FIGURE PER CUBIC YARD

4. BACK FILLING DO ALL REFILLING AGAINST WALLS, USING DIRT FROM THE EXCAVATION. NO BACK FILLING UNTIL THE WALLS ARE BRACED OR FIRST FLOOR DECK IS ON. ADDITIONAL FILL REQUIRED SHALL BE CARRIED AS AN EXTRA TO THE CONTRACT. NO WASTE MATERIAL OR RUBBISH IS TO BE DISPOSED OF IN BACKFILL AREAS. IF EXISTING MATERIAL IS NOT SATISFACTORY FOR BACKFILL. THE CONTRACTOR SHALL PROVIDE NEW MATERIAL AS AN EXTRA TO THE CONTRACT. THE CONTRACTOR

LANDSCAPING

INCLUDING REMOVAL

CONTRACTOR SHALL PROVIDE NEW LANDSCAPING ALONG FRONT ELEVATION INCLUDING BUT NOT LIMITED TO MULCH BED, FLOWERS, SHRUBS, AND PUSHES. REFERENCE LANDSCAPE PLANS FOR FINAL DETAILS AND SELECTION.

WILL INCLUDE A COST PER YARD IN HIS ESTIMATE.

2. WEED PROTECTION UNDER ALL NEW EXISTING AND PROPOSED PLANTING BEDS INSTALL 4.1 OZ., WOVEN POLYPROPYLENE, NEEDLE-PUNCHED FABRIC WITH REINFORCED FIBER WEED BARRIER, BY DEWITT OR EQUAL MANUFACTURER.

WARRANTY CONTRACTOR SHALL WARRANTY ALL INSTALLED PLANTINGS FROM YEAR AFTER DATE OF INSTALLATION.

MASONRY AND CONCRETE

THE WORK INCLUDED UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND INSTALLING ALL MATERIALS AND EQUIPMENT AND PERFORMING ALL NECESSARY LABOR TO DO ALL CONCRETE AND MASONRY WORK SHOWN OR SPECIFIED. THE CONTRACTOR SHALL ALSO DO ALL CUTTING AND PATCHING THAT MAY BE REQUIRED IN HIS WORK OR BY OTHER CONTRACTORS.

2. CONCRETE / MASONRY REQUIREMENTS REFERENCE STRUCTURAL DRAWINGS FOR ALL MATERIALS RELATED TO THIS SECTION.

REFERENCE PAINT SPEICFICATION FOR CONCRETE FINISHING.

ROOFING AND SHEET METAL WORK

THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND INSTALLING ALL MATERIALS AND EQUIPMENT AND PERFORMING ALL NECESSARY LABOR TO DO ALL SHEET METAL AND ROOFING WORK SHOWN OR SPECIFIED.

2. ROOFING MATERIAL GAF EVERGUARD TPO 45 MIL ROOFING MEMBRANE (OR APPROVED EQUAL). MEMBRANE TO MECHANICAL FASTENED PER MANUFACTURERS RECOMMENDATIONS.

GAF ENERGY GUARD PLOYISO FLAT AND TAPERED AS REQUIRED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. MIN. 3" THICK OVER ENTIRE ROOF 4. METAL FLASHING/DRIP EDGE

UNLESS OTHERWISE NOTED, INSTALL PRE-FINISHED DRIP EDGE, AND COUNTER

FLASHING FROM .032 SHEET ALUMINUM COMPLYING WITH ASTM B209

WOODWORK

1. WORK INCLUDED WORK INCLUDED IN THIS SECTION SHALL BE ALL WOODWORK REQUIRED TO COMPLETE THE PROJECT SCOPE AS INDICATED ON THE DRAWINGS. CARPENTRY INCLUDES ALL FASTENERS AND ACCESSORIES TO FASTEN AND SECURE WOOD PRODUCTS IN ACCORDANCE WITH INDUSTRY STANDARDS AND APPLICABLE CODES.

2. ROUGH CARPENTRY - QUALITY ALL FRAMING, PARTITIONS, ROOFS, FLOORS AND SO FORTH, MUST BE CERTIFIED BY AMERICAN LUMBER STANDARD COMMITTEE (ALSC) AND APA CONFORM TO APPLICABLE CODES FOR FIRE RETARDANT TREATMENT OF WOOD SURFACES FOR FLAME/SMOKE RATINGS.

CORNER POSTS SHALL RUN THROUGH AND FINISH AGAINST (2) 2 X 6 PLATES. STUDS, 2 X 6, 16" O.C., IN EXTERIOR WALLS SHALL BE ONE-STORY LENGTHS, CAPPED WITH A COMMON OR RASIED PLATE, AS THE CASE MAY BE, EXCEPT AS NOTED OTHERWISE.

STUDS SHALL BE DOUBLED AROUND ALL OPENINGS.

INTERIOR PARTITIONS SHALL BE 2 X 4 STUDS AT 16" O.C., UNLESS OTHERWISE NOTED. INTERIOR PARTITIONS SHALL BE SPIKED TO SOLES, PLACED ON THE ROUGH FLOORS.

2.04 GLUE-LAMINATED BEAMS GLUE-LAMINATED BEAMS SHALL BE GEORGIA-PACIFIC 2.0E OR 1.8E LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAIN LUMBER (PSL) BEAMS. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

ROOF RAFTERS SHALL BE NOTCHED OVER BEARINGS, PLACED AND BUTTED AGAINST RIDGES AND WELL SPIKED TOGETHER.

2.06 FLOOR JOISTS FLOOR JOISTS MUST BE DOUBLED FOR HEADER AND TRIMMERS. HEADERS OVER 3' LONG ARE TO BE HUNG WITH METAL HANGERS. FLOOR JOISTS TO BE DOUBLED UNDER ALL PARTITIONS RUNNING PARALLEL TO FLOOR BEAMS. BEAMS MUST BE BROUGHT TO A TRUE UPPER SURFACE BY NOTCHING THEM DOWN OVER THE BEARINGS.

CEILING JOISTS MUST BE WELL SPIKED TO RAFTERS, LAPPED OVER BEARING AND WELL SPIKED TOGETHER.

CROSS BRIDGE ALL FLOOR BEAMS AT 8'-0" INTERVALS, UNLESS OTHERWISE NOTED, FITTED AND HEAVILY SPIKED TO JOSITS. JOISTS TO BE LEVELED UP BEFORE BRIDGING IS FINALLY NAILED FAST.

2.09 BLOCKING DO ALL BLOCKING REQUIRED.

IF THE LOCAL CODE DOES NOT REQUIRE MASONRY FIRE-STOPPING, THE CONTRACTOR IS TO INSTALL WOOD FIRE-STOPS AS APPROVED BY THE

BOARDING ON WALLS SHALL BE 1/2 EXTERIOR GRADE WITH EXTERIOR GLUE PLYWOOD. NAILING TO BE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

OVER THE ENTIRE FLOOR, LAY A ROUGH FLOOR OF 3/4" PLYSCORD (CDX), EXTERIOR GLUE, GLUED AND NAILED THOROUGHLY TO BEARINGS.

2.13 BUILDING AND SHEATHING PAPER COVER ALL SHEATHING OF SIDE WALLS WITH A LAYER OF TYVEK, OR APPROVED EQUAL, CAREFULLY INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

ROUGH CARPENTRY - MATERIALS LUMBER: PS 20; S4S. MAXIMUM OF 19 PERCENT MOISTURE CONTENT, SURFACED DRY, NO. 2 ANY SPECIES GRADED UNDER WWPA GRADING RULES OR NO. 3 GRADE SOUTHERN PINE GRADED UNDER SPIB GRADING

NONSTRUCTURAL PANEL: DOC PS 1 OR PS 2. A. TYPE 1 (INTERIOR): GRADE C-D PLUGGED VENEER PLYWOOD, EXPOSURE I, LOCATIONS AND THICKNESS INDICATED ON THE DRAWINGS B. TYPE 2 (EXTERIOR): GRADE B-B VENEER PLYWOOD, EXTERIOR, LOCATIONS AND THICKNESS AS INDICATED ON THE DRAWINGS.

HIGH DENSITY WOOD FIBER PANEL PRODUCTS: PROVIDE ONE OF THE FOLLOWING PANELS WITH SPAN RATING AS REQUIRED TO SUIT SUPPORT SPACING INDICATED ON DRAWINGS. THICKNESS: AS INDICATED ON

A. ENERGYGUARD HIGH DENSITY FIBERBOARD, BY GAF, (800) 766-3411

PRESERVATIVE PRESSURE TREATED LUMBER TREATMENT A. TREAT LUMBER IN ACCORDANCE WITH AWPA U1; USE CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND. USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH THE GROUND, AND USE CATEGORY UC4A FOR ITEMS IN CONTACT B. PRESERVATIVE CHEMICALS SHALL BE ACCEPTABLE TO AUTHORITIES

HAVING JURISDICTION AND CONTAIN NO ARSENIC OR CHROMIUM WHERE PROHIBITED. C. KILN DRY LUMBER AFTER TREATMENT TO 15-19 PERCENT MOISTURE CONTENT. DO NOT USE WARPED MATERIAL OR MATERIALS THAT DO NOT COMPLY WITH REQUIREMENTS FOR UNTREATED MATERIAL. MATERIAL TO BE PAINTED OR STAINED SHALL HAVE KNOTS AND PITCH STREAKS SEALED AS WITH UNTREATED WOOD.

D. MARK LUMBER WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY THE ALSC BOARD OF REVIEW AND ACCEPTABLE TO **AUTHORITIES HAVING JURISDICTION.**

4. FINISH CARPENTRY - MATERIALS AND QUALITY

B. CLEAR SEALED HARDWOOD: ASH, BIRCH, OR OAK

C.NEVAMAR DECORATIVE SURFACES.

8. EXTERIOR FINISH

INTERIOR STANDING AND RUNNING TRIM: AWI CUSTOM GRADE; PLAIN SAWN, GRADE II LUMBER. A. PAINTED FINISH: CLOSED-GRAIN HARDWOOD, ANY SPECIES.

5. ARCHITECTURAL WOODWORK - MATERIALS AND QUALITY

HIGH PRESSURE LAMINATE (HPL): NEMA LD3: COLOR, PATTERN, AND FINISH AS SELECTED BY ARCHITECT. EXPOSED HORIZONTAL AND VERTICAL SURFACES: GP-50. POSTFORMED SURFACES: PF-42. PROVIDE HPL PRODUCTS AS MANUFACTURED BY THE FOLLOWING: A.FORMICA CORPORATION, INDIANAPOLIS, IN. B.WILSONART, TEMPLE, TX.

ALL INSULATION TO BE INSTALLED AS DETAILED AND IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

INSULATE UNDER ALL SILLS WITH DOW/CORNING FOAM SILL SEALER.

INSULATE ALL SIDEWALLS WITH 5 1/2" FIBERGLASS BUILDING INSULATION WITH VAPOR BARRIER AT INTERIOR WELL SECURED TO THE SURFACE OF STUDS AND PLATES.

CEILINGS ADJACENT TO UNHEATED SPACES SHALL BE INSULATED WITH A MINIMUM OF (R-19) FIBERGLASS INSULATION WITH VAPOR BARRIER. ALL VAPOR BARRIERS TO BE PLACED TOWARD THE HEATED SPACE.

CAULK AROUND ALL OPENINGS WITH BUTYL-FLEX CAULKING COMPOUND, OR FOUAL AND UNDER ALL WINDOW SILLS

WOODWORK (CONT.)

8.02 EXTERIOR DOORS ALL EXTERIOR DOORS ARE TO BE SOLID WOOD, UNLESS OTHERWISE NOTED, PROVIDED THEY MEET ALL DOOR SIZES LISTED ON THE DOOR SCHEDULE.

ENTRANCE DOORS: SOLAR INNOVATION ENTRANCE DOOR DESIGN, PROVIDED THEY MEET ALL DOOR SIZES LISTED ON THE DOOR SCHEDULE.

8.03 WINDOW FRAMES AND SASHES WINDOWS TO BE SOLAR INNOVATION. WINDOWS TO BE AS SHOWN ON

ELEVATIONS PREFINISHED DARK BRONZE INTERIOR AND EXTERIOR.

INSTALL 4" SELF-ADHERED BLUESKIN BY HENRY OR EQUAL AT WINDOW FLASHING AT HEADS, SILL AND JAMBS PER MANUFACTURER'S RECOMMENDATIONS. ALL GLASS WITHIN 18" OF FLOOR TO BE TEMPERED.

8.05 THRESHOLDS

8.06 WALL SIDING

STUCCO: ECOSTUCCO TO BE APPLIED TO EXTERIOR WALLS ACCORDING TO MANUFACTURER'S SPECIFICATIONS, UNLESS NOTED OTHERWISE.

INNOWOOD: INNOCLAD WC20025 TO BE INSTALLED AS INDICATED ON PLANS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

8.07 TRIM AND BOARDS ALL TRIM AND BOARDS TO BE SOLID PVC BY AZEK. SHAPES AND SIZES AS INDICATED ON DOCUMENTS.

8.08 STAIRS AND DECKING

9. INTERIOR FINISH

ALL STOCK MUST BE OF THE BEST QUALITY, KILN-DRIED STOCK. IT MUST BE DRY WHEN IT REACHES THE HOUSE AND BE KEPT DRY WHILE THERE.

ALL FINISHES THROUGHOUT TO BE THE BEST GRADE, PINE OR WHITE WOOD (POPLAR) TO PAINT EXCEPT AS NOTED BELOW.

CABLE RAILING WITH SOLID SAK RAIL STAIN AS SELECTED BY ARCHITECT.

9.04 STAIR TREADS SOLID OAK TRADES STAN AS SELECTED BY ARCHITECT

9.05 STAIR RISERS

9.06 INTERIOR DOORS

RESIDENTIAL UNITS: ALL INTERIOR RESIDENTIAL UNIT DOORS ARE TO BE CENTER PIVOT 8' PANEL DOORS, UNLESS OTHERWISE NOTED, PROVIDED THEY MEET ALL DOOR SIZES LISTED ON THE DOOR SCHEDULE. PROVIDE NECESSARY ASSEMBLY FOR POCKET DOOR AS REQUIRED.

<u>HALLWAYS:</u> ALL INTERIOR HALLWAY DOORS TO BE SOLID WOOD, UNLESS OTHERWISE NOTED, PROVIDED THEY MEET ALL DOOR SIZES LISTED ON THE DOOR SCHEDULE.

10. CURTAIN BLOCKING CONTRACTOR IS TO INSTALL BLOCKING ADJACENT TO WINDOWS TO SUPPORT CURTAIN OR DRAPERY RODS.

CONTRACTOR IS TO INSTALL BLOCKING BEHIND AND BESIDE TOILETS AND SHOWERS TO SUPPORT GRAB BARS IN ACCESSIBLE BATHROOMS.

THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND APPLYING ALL MATERIALS AND PERFORMING ALL NECESSARY LABOR TO INSTALL ALL DOORS AND FRAMES, AND ASSOCIATED HARDWARE

2. ROUGH HARDWARE FURNISH AND INSTALL ALL ROUGH HARDWARE REQUIRED. WHICH IS TO INCLUDE ANCHORS, TIES, JOIST HARDWARE, NAILS AND SIMILAR FASTENINGS AND HARDWARE FOR BLINDS. EXTENSION SLIDES FOR ALL DRAWERS. STANDARDS AND SUPPORTS FOR ADJUSTABLE SHELVES.

3. FINISH HARDWARE PROVIDE DOOR HARDWARE FROM

GYPSUM BOARD PARTITIONS AND ASSEMBLIES

THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND APPLYING ALL MATERIALS AND PERFORMING ALL NECESSARY LABOR TO INSTALL ALL GYPSUM BOARD PARTITIONS AND METAL STUD ASSEMBLIES. CONTRACTOR SHALL PROVIDE ALL REQUIRED FASTENERS AND JOINTING IN ACCORDANCE WITH WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS, ASTM C 754, GA-216, AND GA-600.

2. GYPSUM BOARD MATERIALS MANUFACTURERS: SUBJECT TO SPECIFIED REQUIREMENTS, PROVIDE GYPSUM BOARD AND ACCESSORIES BY THE FOLLOWING MANUFACTURERS: A. UNITED STATES GYPSUM COMPANY, CHICAGO, IL. (800) 874-4968. CERTAINTEED CORP (SAINT-GOBAIN)., TAMPA, FL. (866) 427-2872.

C. GEORGIA-PACIFIC, ATLANTA, GA. (800) 284-5347. D. NATIONAL GYPSUM COMPANY, GOLD BOND BUILDING PRODUCTS, CHARLOTTE NC. (800) 628-4662.

E. <u>TEMPLE-INLAND</u>, DIBOLL, TX. (972) 235-4448. HE STEEL NETWORK, RALEIGH, NC (888) 474-4876. (ACCESSORIES ONLY) G. DIETRICH METAL FRAMING, PITTSBURG, PA (412) 281-2805. (ACCESSORIES

PERMISSIBLE LENGTH; ENDS SQUARE CUT, TAPERED EDGES.

H. FRY REGLET, (800) 237-9773. (ACCESSORIES ONLY) STANDARD GYPSUM BOARD: ASTM C 1396; 1/2 INCH AND 5/8 INCH THICK, MAXIMUM

WATER RESISTANT GYPSUM BOARD: ASTM C 1396 OR C 1658, 1/2 INCH THICK, MAXIMUM PERMISSIBLE LENGTHS; ENDS SQUARE CUT, TAPERED EDGES. MOLD RESISTANCE OF WATER RESISTANT GYPSUM BOARD SHALL SCORE A RATING OF NOT LESS THAN 10 WHEN TESTED IN ACCORDANCE WITH ASTM D 3273.

FIRE RESISTANT GYPSUM BOARD: ASTM C 1396, TYPE X; 5/8 INCH THICK, MAXIMUM PERMISSIBLE LENGTHS; ENDS SQUARE CUT, TAPERED EDGES; CORE MATERIAL AS REQUIRED TO COMPLY WITH UNDERWRITERS LABORATORIES (UL) ASSEMBLIES INDICATED ON DRAWINGS.

IMPACT RESISTANT GYPSUM BOARD: ASTM C 1396 OR C 1658; ASTM C 1629; 1/2" THICKNESS, MANUFACTURED TO PRODUCE GREATER RESISTANCE TO SURFACE INDENTATION AND THROUGH-PENETRATION THAN STANDARD GYPSUM PANELS. PROVIDE ONE OF THE FOLLOWING PRODUCTS:

IMPACT AND WATER RESISTANT GYPSUM BOARD: ASTM C 1396; ASTM C 1658; ASTM C 1629; THICKNESS SHOWN, MANUFACTURED TO PRODUCE GREATER RESISTANCE TO SURFACE INDENTATION AND THROUGH-PENETRATION THAN STANDARD GYPSUM PANELS AND PROVIDING WATER RESISTANT GYPSUM CORE WITH PAPERLESS FACING AND MOLD RESISTANCE WITH A RATING OF NOT LESS THAN 10 WHEN TESTED IN ACCORDANCE WITH ASTM D 3273. PROVIDE THE FOLLOWING PRODUCT:

EXTERIOR GYPSUM SOFFIT BOARD: ASTM C 1396 OR C 1658, TYPE X, 5/8" THICK, GYPSUM WALLBOARD MANUFACTURED TO PRODUCE EXTRA RESISTANCE TO MOISTURE AND SAGGING. GYPSUM BOARD ACCESSORIES: SUBJECT TO COMPLIANCE WITH PROJECT

REQUIREMENTS AND UNLESS OTHERWISE SPECIFIED, PROVIDE THE SPECIFIED

GYPSUM BOARD ACCESSORIES BELOW OR EQUIVALENTS BY ONE OF THE MANUFACTURERS LISTED ABOVE: CORNER BEADS: SHEETROCK BRAND NO. 104 DUR-A-BEAD GALVANIZED STEEL CORNER BEAD BY UNITED STATES GYPSUM.

A. NO. 200-B, L SHAPE BY UNITED STATES GYPSUM FOR TIGHT ABUTMENT AT B. NO. 200-A, J SHAPE BY UNITED STATES GYPSUM AT OTHER LOCATIONS. 3. CONTROL JOINT ACCESSORY PIECE: NO. 093 ROLL-FORMED ZINC BY DIETRICH.

4. VERTICAL MOVEMENT JOINT TRIM: NO. DRMZ-625-200 ALUMINUM Z SHAPE TRIM

2. EDGE TRIM: GALVANIZED STEEL CASING.

COUSTICAL INSULATION: UNFACED GLASS FIBER: TYPE I (BLANKETS WITHOUT MEMBRANE FACING); WITH MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 50, RESPECTIVELY PASSING ASTM E 136 FOR COMBUSTION CHARACTERISTICS.

WORK INCLUDED THE WORK UNDER THIS SECTION SHALL CONSIST OF INSTALLING ALL MATERIALS AND EQUIPMENT AND PERFORMING ALL NECESSARY LABOR TO INSTALL CERAMIC TILE AS INDICATED ON DRAWINGS AND ALL ASSOCIATED GOUT AND UNDERLAYMENT. INSTALL TILE IN ACCORDANCE WITH TCA HANDBOOK FOR CERAMIC TILE INSTALLATION. SLOPE ALL FLOOR TO DRAIN WHERE APPLICABLE.

FLOOR AND WALL TILE: PROVIDE 12 X 24 TILE BY STONEPEAK CERAMICS OR EQUAL MANUFACTURER. COLOR SELECTED BY OWNER.

MORTAR: 255 MULTIMAX MULTIPURPOSE THIN-SET MORTAR BY LATICRETE GROUT: SPECTRALOCK GROUT BY LATICRETE, COLOR AS SELECTED BY ARCHITECT.

FLOOR LEVELING COMPOUND: LATICRETE 86 LATILEVEL SELF LEVELING UNDERLAYMENT BY LATICRETE

BENEATH ALL FLOOR TILE INCLUDING SHOWERS INSTALL 1/8" SHULTER SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

VINYL TILE AND CARPET

1. WORK INCLUDED THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND APPLYING ALL MATERIALS AND PERFORMING ALL NECESSARY LABOR TO INSTALL VINYL TILE AND CARPET FLOORING AS INDICATED IN THE FINISH SCHEDULE. CONTRACTOR SHALL COORDINATE IN THE FIELD WITH OWNER FINAL COLORS AND FINISHES PRIOR TO FINAL BUY OUT. GC TO VERIFY SUBSTRATE IS ACCEPTABLE TO INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS PRIOR TO INSTALLATION. PATCH AND LEVEL AS

VINYL COMPOSITION TILE (VCT): ASTM F 1066, CLASS 1, SOLID-COLOR TILE OR CLASS 2, THROUGH-PATTERN TILE, NON-ASBESTOS FORMULATED, 0.125 INCH THICK, 12 BY 12 INCHES SQUARE, STANDARD EXCELON IMPERIAL TEXTURE OR

SAFETY ZONE SLIP RESISTANT BY ARMSTRONG OR AZROCK BY TARKETT. .

CUSHON BACK CARPET TILE: GEOMETRY BY INTERFACE. CUSHONBAC PLUS TILE, TUFTED TIP SHEARED PATTERN LOOP, 100% SOLUTIA YARN. TILE SIZE: 50 CM X 50 CM. (19.69 IN. SQUARE).

WALL BASE: ROPPE 700 SERIES WALL BASE, STANDARD COVE, 1/8" THICK, 6" HIGH WITH FACTORY INSIDE AND OUTSIDE CORNERS.

VCT ADHESIVE: WATER RESISTANT TYPE, 0 VOC , TARKETT 100 SOLVENT-FREE CLEAR THIN SPREAD ADHESIVE, BY TARKETT, OR SPRAYSMART IQ, BY TARKETT, AS DETERMINED BY WAL-MART,

CARPET ADHESIVE: FRANKLIN 780 PREMIUM MULTIPURPOSE FLOORING ADHESIVE BY FRANKLIN INTERNATIONAL, WATER RESISTANT TYPE, VOC LESS

SUBFLOOR FILLER: PROVIDE ONE OF THE FOLLOWING: CEMENTITOUS BASED UNDERLAYMENT SUBFLOOR FILLER: A. ARDEX SD-F FEATHER FINISH, BY <u>ARDEX ENGINEERED CEMENTS</u>, CONTACT: BEN MACK (724) 203-5060.

B. LEVELAYER L, BY <u>DAYTON SUPERIOR</u>. C. NO. 547 UNIPRO UNIVERSAL UNDERLAYMENT BY <u>W.W. HENRY</u>, CONTACT: BEN MACK (724) 203-5060. P. EPOXY SUBFLOOR FILLER: EPOLITH P OR G, TWO-PART 100% SOLIDS FLEXIBLE EPOXY JOINT FILLER, BY <u>BASF BUILDING SYSTEMS</u> (FORMERLY DEGUSSA), (800) 433-9517.

PAINTS AND COATINGS

GENERAL CONDITIONS THE GENERAL CONDITIONS OF THE SPECIFICATIONS APPLY TO THIS SECTION.

WORK INCLUDED THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND APPLYING ALL MATERIALS AND PERFORMING ALL NECESSARY LABOR TO DO ALL PAINTING AND FINISHING OF ALL EXTERIOR AND INTERIOR WOODWORK, WALLS, AND SHEET METAL WORK SHOWN OR SPECIFIED, CONTRACTOR SHALL COORDINATE IN THE FIELD WITH ARCHITECT FINAL PAINT COLORS AND FINISHES PRIOR TO FINAL BUY OUT.

ALL EXTERIOR PAINTS, VARNISHES, ENAMELS, STAINS AND SIMILAR MATERIALS SHALL BE BENJAMIN MOORE, OR EQUIVALENT . ALL MATERIALS SHALL BE DELIVERED TO THE JOB IN ORIGINAL CONTAINERS AND USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. UNDERCOATS OF PAINT AND ENAMELS SHALL BE OF THE SAME OR APPROXIMATE COLOR OF THE FINAL COAT. NO PAINT SHALL BE APPLIED ON SURFACES THAT ARE NOT THOROUGHLY CLEAN AND DRY. ALL COATS OF PAINT, STAIN, VARNISH, ENAMEL OR FILLER SHALL BE BOND DRY BEFORE THE APPLICATIONS OF SUCCEEDING COATS. BEFORE PRIMING, SHELLAC ALL KNOTS, SAP OR PITCH STREAKS. ALL RUST, GREASE OR CONSTRUCTION MARKS SHALL BE ENTIRELY REMOVED FROM SURFACES TO BE FINISHED. ALL NAIL HOLES SHALL BE PUTTIED AFTER PRIMING. AFTER APPLICATION OF FIRST FINISH COAT OF INTERIOR PAINT OWNER SHALL APPROVE PRIOR TO APPLICATION OF FINAL COAT.

4. PROTECTION OF SURFACES AND CLEANING DROP CLOTHS SHALL BE USED TO PROTECT SURFACES FROM PAINT SOILS, STAINS AND VARNISHES. AT THE COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE AND CLEAN OFF ALL SPOTS FROM WALLS, CEILING. FLOORS, TRIM, GLASS AND SO FORTH, NO MATTER BY WHOM CAUSED. ALL BLISTERS OR PAINTED SURFACES ARE TO BE MADE GOOD TO THE SATISFACTION OF THE OWNER.

ALL TRIM TO RECEIVE TWO (2) COATS OF OIL BASED PAINT, IN ADDITION TO THE PRIME COAT.

6. INTERIOR PAINTED TRIM AND WOODWORK ALL PAINTED WOODWORK THROUGHOUT THE HOUSE TO HAVE ONE (1) COAT PRIMER AND TWO (2) COATS OF

7. GYPSUM WALLS ALL GYPSUM WALLS WHICH ARE TO BE PAINTED ARE TO RECEIVE A PRIME COAT AND TWO (2) COATS OF LATEX FLAT, SANDED LIGHTLY BETWEEN COATS WHEN

<u>CEILING</u> ALL GYPSUM CEILINGS TO BE GIVEN ONE (1) PRIME COAT AND (2) TWO COATS OF FLAT CEILING PAINT.

TO BE TREATED AS INTERIOR WOODWORK - UNLESS OTHERWISE NOTED. STAINLESS STEEL TOILET COMPARTMENTS AND ACCESSORIES

WORK INCLUDED THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND APPLYING ALL MATERIALS AND PERFORMING ALL NECESSARY LABOR TO INSTALL NEW BATHROOM PARTITIONS INCLUDING ALL NECESSARY FASTENERS AND SUPPORTS, AND ACCESSORIES AS INDICATED ON PLANS. CONTRACTOR SHALL VERIFY PLUMBING LOCATIONS IN THE FIELD PRIOR TO FABRICATION. INSTALL UNITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

STAINLESS STEEL COMPARTMENTS AND SCREENS: PROVIDE ONE OF THE A. SENTINEL OVERHEAD BRACED, SERIES 400 BY MILLS.

D. STAINLESS STEEL BY GLOBAL STEEL PRODUCTS PANELS: FORM PANELS AS TWO-PIECE INTERLOCKING UNIT WITH CORNERS BRAZED AND FINISHED SMOOTH. PANEL FACE SHALL BE STAINLESS STEEL 304,

INSULATED HONEYCOMB CORE ADHERED TO INNER SURFACES WITH MOISTURE

B. STAINLESS STEEL BY ACCURATE PARTITIONS.

C. STAINLESS STEEL BY FLUSH METAL.

FINISH: TEXTURED "DIAMOND" PATTERN SIMILAR TO RIGIDIZED 5WL. PATTERN IN PANELS SHALL BE WITHOUT SEAMS.

3. ACCESSORIES AS INDICATED ON PLANS

DIAMETER WHERE REQUIRED BY LOCAL CODE) TEXTURED GRIP SURFACE; CONCEALED MOUNTING CONSISTING OF WELDED-ON MOUNTING FLANGE WITH SNAP-ON COVER FLANGE OR ESCUTCHEON. LOCATION, QUANTITY, AND LENGTH SHALL BE AS SHOWN. 1. MODEL NO. 3700 P, BY AMERICAN SPECIALTIES, OR EQUAL

GRAB BARS: 18 GAGE STAINLESS STEEL; 1_1/4 INCH DIAMETER, (1-1/2 INCH

 WORK INCLUDED THE WORK INCLUDED UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND INSTALLING ALL MATERIALS AND ALL EQUIPMENT AND PERFORMING ALL LABOR NECESSARY TO CONNECT TO THE EXISTING WATER SUPPLY AND EXISTING SANITARY TO ALL FIXTURES SHOWN ON THE ACCOMPANYING DRAWINGS OR SPECIFIED HEREIN IN ACCORDANCE WITH ALL APPLICABLE CODES. THIS INCLUDED BUT NOT LIMITED TO VALVES, TRAPS, SUPPORTS, HANGERS. THE CONTRACTOR BEFORE STARTING ANY WORK SHALL OBTAIN ALL NECESSARY PERMITS AND PAY CHARGES FOR THE SAME.

NOTE: THE PROPOSED ROUGH PLUMBING OF SUPPLY AND WASTE PIPING IS TO BE APPROVED BEFORE WORK IS STARTED. THE SYSTEM IS TO BE LAID OUT AND INSTALLED TO ALLOW EASY DRAINAGE OF THE ENTIRE SYSTEM. THE CONTRACTOR IS TO MAKE ALL NECESSARY CONNECTIONS TO ALL ACCESSORIES REQUIRING WATER OR DRAINAGE.

ALL SOIL, VENT, WATER AND HORIZONTAL DRAINS, TRAPS, AND FITTINGS THAT ARE PLACED INSIDE THE BUILDING, INCLUDING LINES TO LEADERS, SHALL BE PVC OF SIZE REQUIRED BY LOCAL CODE, EXCEPT AS NOTED BELOW. ALL INSTALLATION SHALL BE INSTRICT CONFORMITY WITH STATE PLUMBING CODE. WATER PIPE ALL HOT AND COLD WATER PIPES SHALL BE TYPE "L" COPPER TUBING. CARRY PIPES 1'-0" ABOVE EACH FIXTURE TO PREVENT WATER HAMMER. PROVIDE AIR CUSHION AT EACH FIXTURE. USE 3/4" DOMESTIC SUPPLIES WITH 1/2" BRANCHES FOR INDIVIDUAL FIXTURES. ALL WATER SUPPLY LINES ADJACENT TO UNHEATED AREAS SHALL BE INSTALLED WITHIN INSULATION AREA AND BE INSULATED.

EXPOSED METAL WORK ALL EXPOSED METAL WORK ABOUT THE PLUMBING FIXTURES SHALL BE CHROMIUM PLATED BRASS.

REFRIGERATOR/FREEZER, AS SELECTED BY THE OWNER.

CONTRACTOR SHALL MAKE NECESSARY CONNECTIONS TO

ON COMPLETION OF THE ROUGH WORK AND AFTER ALL VENTS, PIPES AND BRANCHES ARE IN PLACE AND WHEN THE WORK IS READY FOR THE SETTING OF THE FIXTURES, THE PLUMBER SHALL TEST ALL VENT, SOIL, WATER, AND LEADER PIPES IN THE PRESENCE OF THE PROPER AUTHORITIES BY FILLING THE ENTIRE SYSTEM OF PIPING WITH WATER TO THE HIGHEST POINT. ANY DEFECTS

DISCOVERED AND ANY DAMAGE CAUSED BY THESE TESTS SHALL BE MADE

GOOD BY THE CONTRACTOR AND AT HIS OWN EXPENSE AND THE TEST SHALL

6. PLUMBING FIXTURES THE CONTRACTOR IS TO FURNISH AND INSTALL ALL PLUMBING FIXTURES AS NOTED ON THE DRAWINGS AS SELECTED BY OWNER.

BE REPEATED UNTIL THE WHOLE WORK IS PROVED SECURE.

THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND INSTALLING ALL MATERIALS AND EQUIPMENT AND PERFORMING ALL NECESSARY LABOR TO PROVIDE A NEW ELECTRIC WIRING AND DEVICES TIED INTO EXISTING ELECTRICAL SYSTEM. WIRING SHALL BE INSTALLED INS TRICT ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, LOCAL ORDINANCES AOF THE LOCAL ELECTRIC LIGHT COMPANY. ALL DEVICES AND MATERIALS USED SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

SMOKE, FIRE DETECTION INSTALLATION SHALL COMPLY WITH THE LOCAL FIRE DEPARTMENT GUIDE LINES AND PROVISIONS OF THE MOST RECENT EDITIONS OF THE NATIONAL FIRE CODE STANDARD NO. 74 RELATIVE TO HOUSEHOLD FIRE WARNING EQUIPMENT ADOPTED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.

ALL INTERIOR SWITCHES TO BE ON DIMMERS UNLESS OTHERWISE NOTED ON REFLECTED CEILING PLANS. DIMMERS TO BE LUTRON MAESTRO WITH WHITE FINISH - UNLESS OTHERWISE NOTED.

4. TELEPHONE OUTLETS, TV OUTLETS, ETC. CONTRACTOR TO INSTALL AT TV, TELEPHONE, AND INTERNET OUTLETS AS INDICATED ON PLAN.

CONTRACTOR IS TO MAKE ALL NECESSARY ELECTRICAL CONNECTIONS TO ALL EQUIPMENT AND APPLIANCES SHOWN ON PLANS.

NOTE: ALL APPLIANCES TO BE WIRED WITH SEPARATE CIRCUITS.

CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING EQUIPMENT, WHERE INDICATED, INCLUDING ALL DUCTWORK AND DAMPERS. COST OF FANS,

DUCTS, AND DAMPERS TO BE INCLUDED IN ELECTRIC FIXTURES ALLOWANCES.

FURNISH AND INSTALL REQUIRED REGISTERS, DIFFUSERS, AND GRILLS.

7. ELECTRIC FIXTURES ALL DECORATIVE ELECTRICAL FIXTURES TO BE PURCHASED BY OWNER DIRECTLY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO FURNISH AND INSTALL RECESSED FIXTURES WHERE SHOWN. FIXTURES TO BE FALCON A8905.

HEATING, VENTILATION AND AIR CONDITIONING

5. ELECTRICAL EQUIPMENT

 WORK INCLUDED THE WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING AND INSTALLING ALL MATERIALS AND EQUIPMENT AND PERFORMING ALL LABOR NECESSARY TO PROVIDE A COMPLETE FORCED HEATING AND AIR CONDITIONING SYSTEM, AND ANYTHING THAT MAY BE NECESSARY TO COMPLETE THE APPARATUS MUST BE SUPPLIED WHETHER SPECIFICALLY MENTIONED OR NOT, INCLUDING ALL NEW DUCT WORK. ALL MATERIALS FURNISHED ARE TO BE THE BEST OF THEIR KIND, AND THE WORK IS TO BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF FIRE UNDERWRITERS, AND THE BUILDING LAWS IN FORCE IN THE LOCALITY WHERE THE APPARATUS IS INSTALLED.

2. AIR CONDITIONING UNITS FURNISH AND INSTALL AS REQUIRED PER ZONES SPECIFIED LENNOX, OR EQUAL. AIR CONDITIONING UNITS ON PLATFORMS, COMPLETE WITH COMPRESSOR, REFRIGERATION LINES AND BLOWER CONTROL UNITS SERVICING THE ZONES SPECIFIED.

3. HUMIDIFIERS FURNISH AND INSTALL HUMIDIFIERS COMPLETE WITH HUMIDISTAT AS

REQUIRED. 4. THERMOSTATS FURNISH AND INSTALL NEST SMART SYSTEM THERMOSTATS AS REQUIRED.

WIRING OF ALL CONTROLS, CIRCULATORS AND HEATING UNIT SHALL BE DONE BY THIS CONTRACTOR IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE

FURNISH AND INSTALL REQUIRED REGISTERS, DIFFUSERS, AND GRILLS.

AND STATE LOCAL RULES AND LAWS.

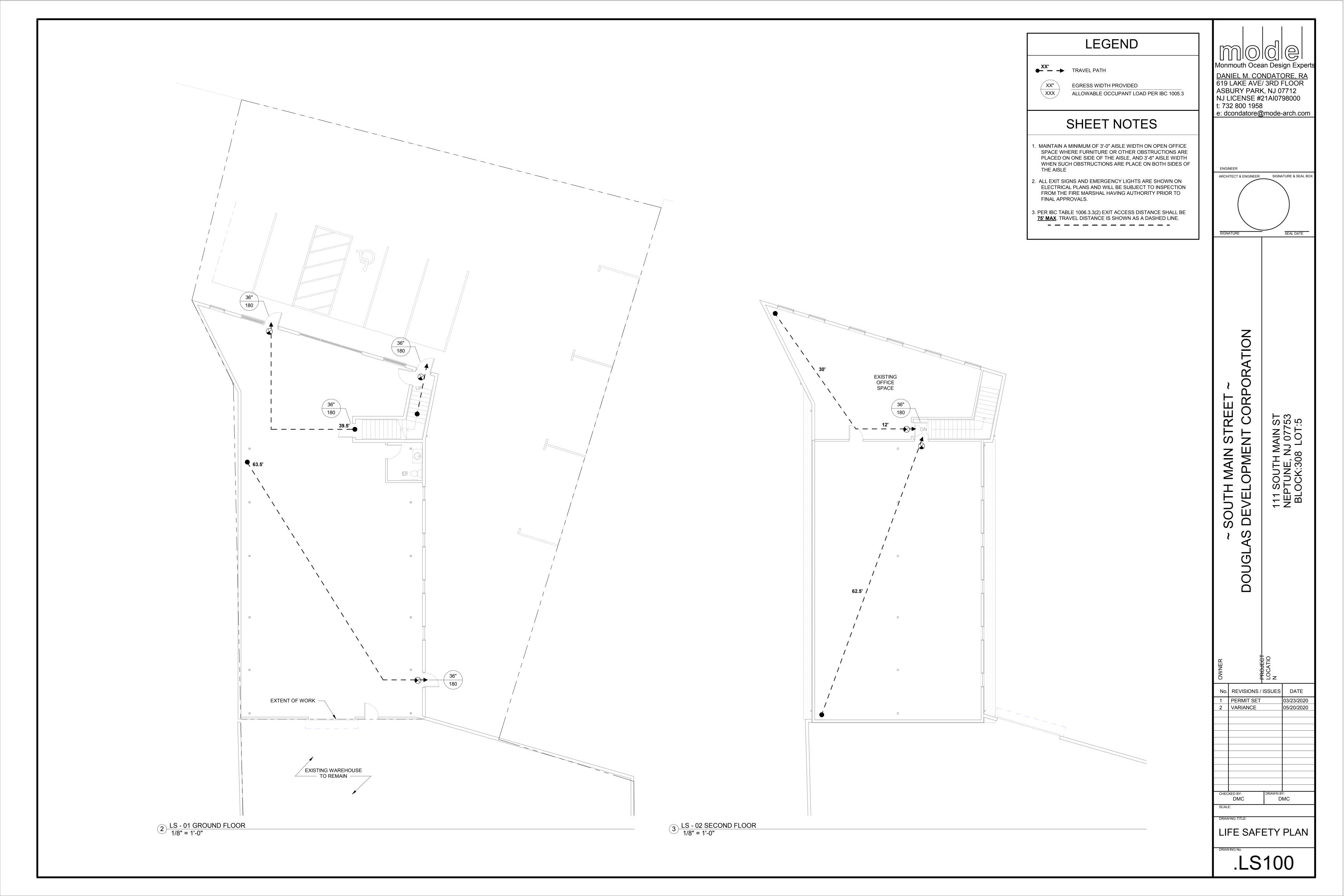
7. CLEANING AND TESTING WHEN THE WORK HEREIN DESCRIBED IS COMPLETED, THE HEATING CONTRACTOR SHALL WASH OUT THE BOILER WITH OXALIC ACID UNTIL SUCH TIME AS IT IS ENTIRELY CLEAN AND WATER FREE FROM OIL AND DIRT. HE SHALL TEST EVERY PORTION OF THE APPARATUS AND LEAVE IT IN PERFECT ADJUSTMENT AND BALANCE.

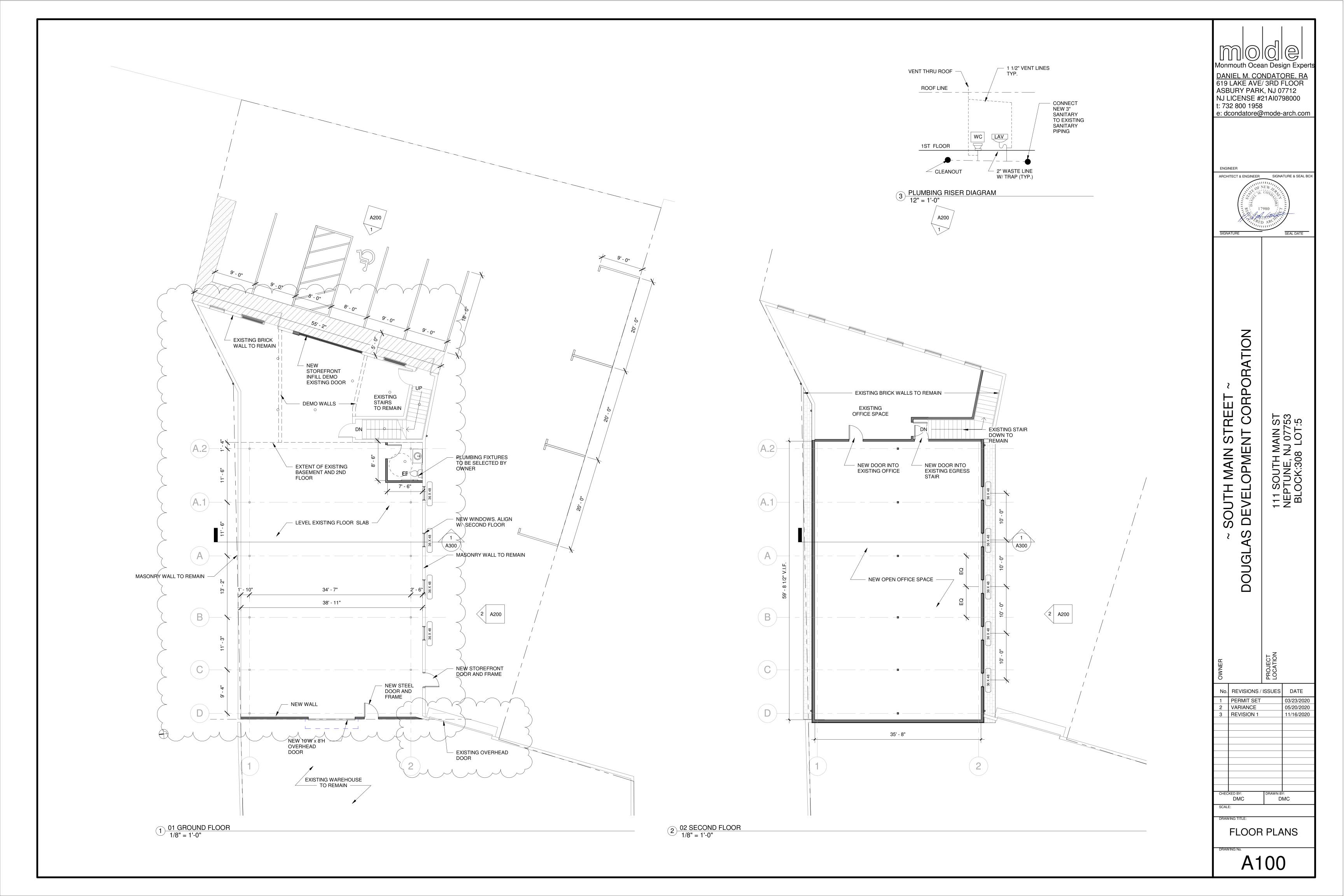
mode Monmouth Ocean Design Experts <u>DANIEL M. CONDATORE, RA</u> 619 LAKE AVE/ 3RD FLOOR ASBURY PARK, NJ 07712 NJ LICENSE #21AI0798000 t: 732 800 1958 e: dcondatore@mode-arch.com ARCHITECT & ENGINEER SIGNATURE & SEAL BOX SEAL DATE SIGNATURE Sin AIN 077 0 No. REVISIONS / ISSUES DATE PERMIT SET 03/23/2020 VARIANCE)5/20/2020

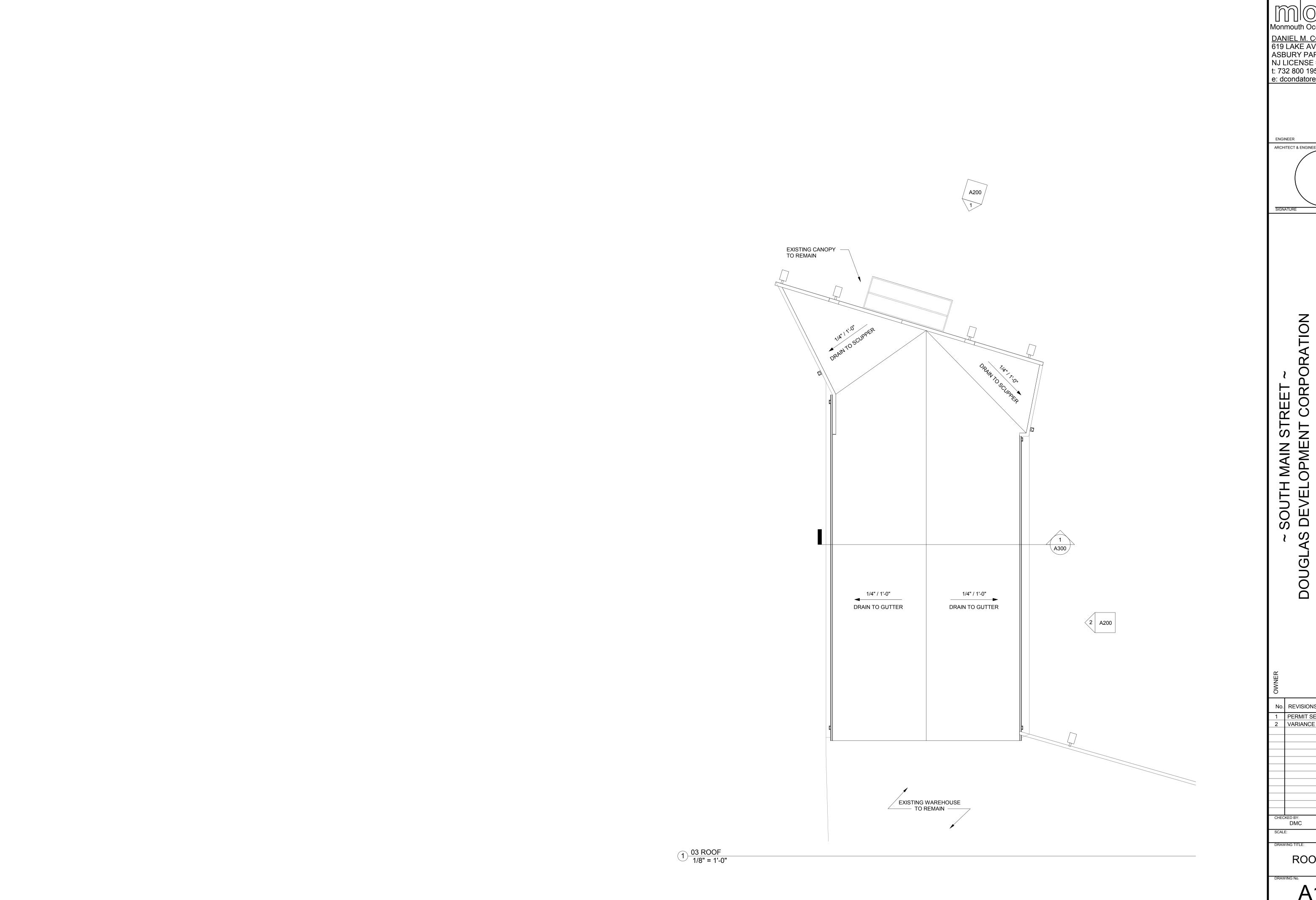
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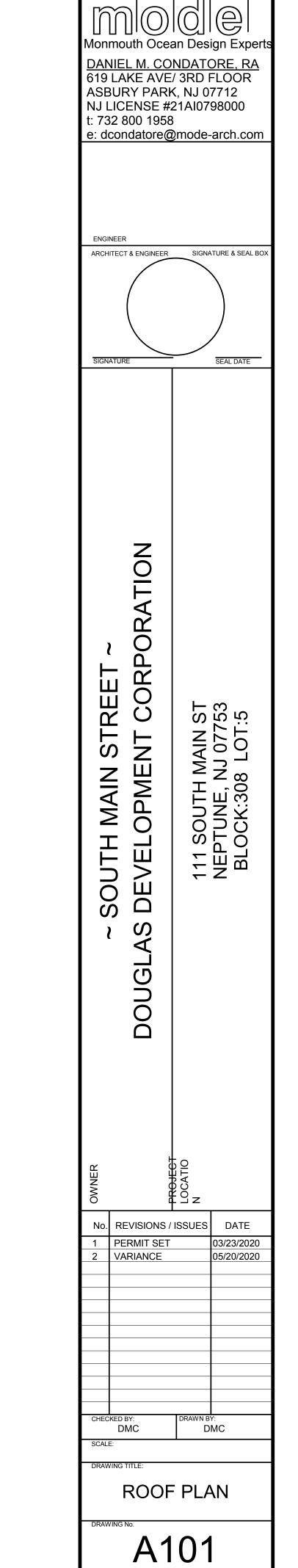
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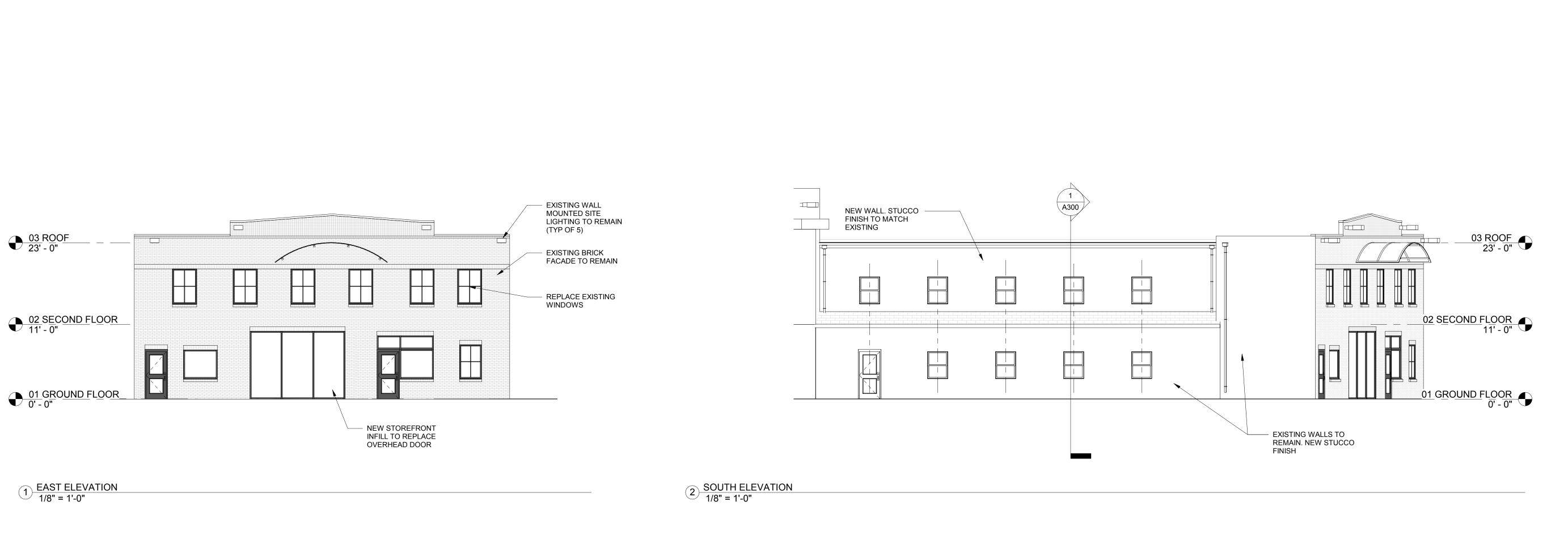
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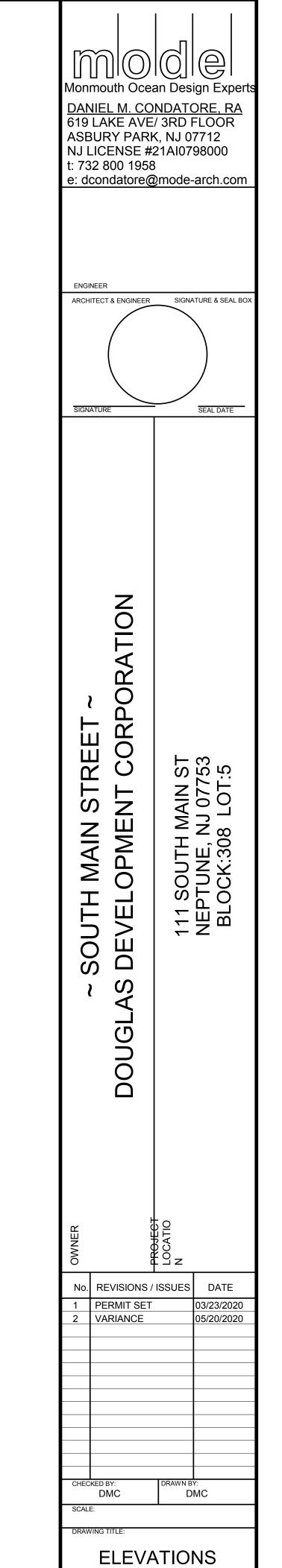




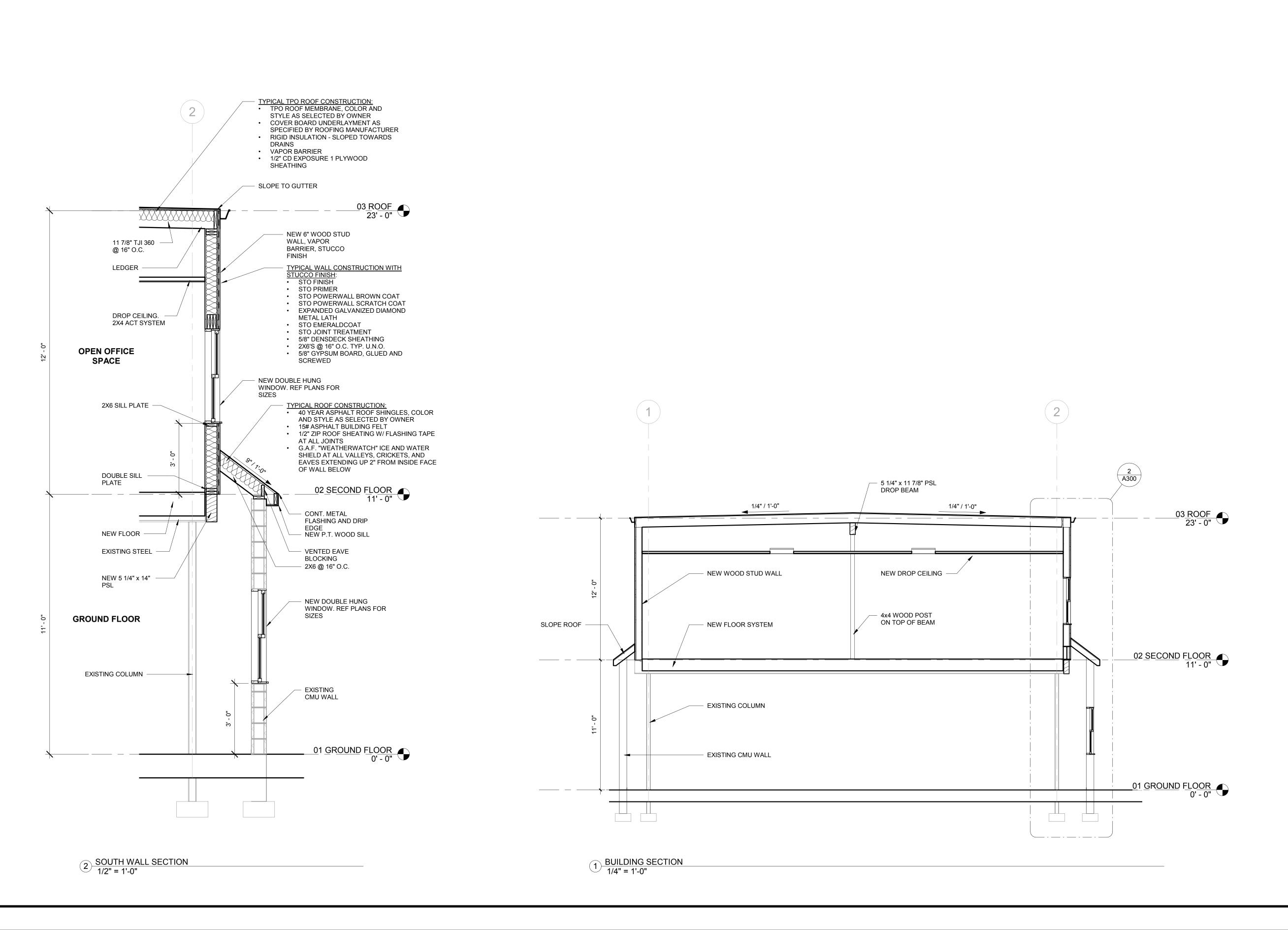


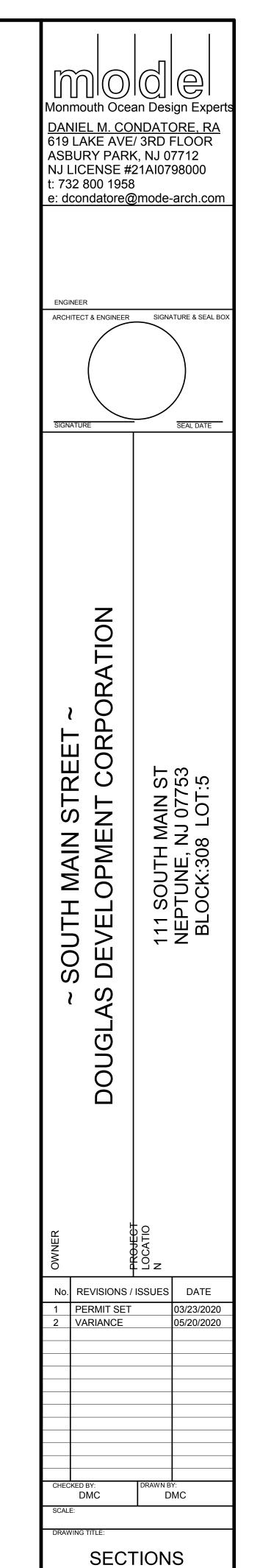




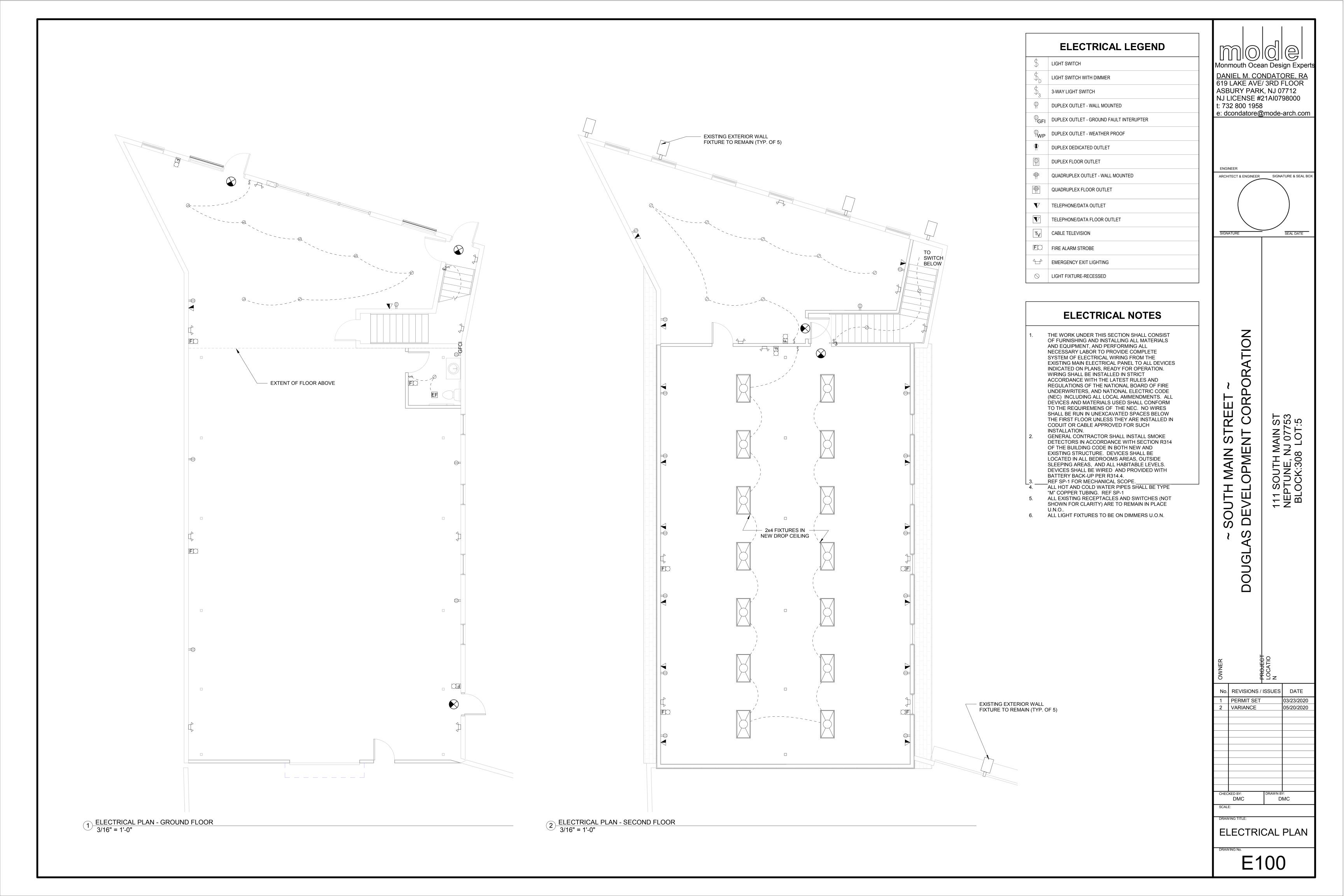


A200





A300



MECHANICAL GENERAL NOTES

1. DO NOT SCALE FROM THESE DRAWINGS.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE AND ADOPTED REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, LOCAL CODES AND ORDINANCES WHICH MAY BE IN EFFECT. ALL MECHANICAL MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.

3. UPON CONTRACT AWARD, CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANY TO SCHEDULE ANY UTILITY UPGRADES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITY UPGRADES. SECURE ALL PERMITS AND INSPECTIONS

4. ALL CONNECTIONS TO EXISTING BUILDING SERVICES SHALL BE CAREFULLY COORDINATED WITH THE UTILITY CO. AND THE OWNER'S SCHEDULE. SERVICE WORK OF THIS NATURE TO OCCUR DURING UNOCCUPIED BUILDING HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL EXISTING EQUIPMENT IS OPERATIONAL AFTER ANY SHUTDOWN OCCURS.

5. CHANGES OR SUBSTITUTIONS OF EQUIPMENT WILL NOT BE ALLOWED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT OR ENGINEER. ALL COSTS RESULTING FROM THE SELECTION OF OTHER THAN SPECIFIED EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO WORK AFFECTING OTHER CONTRACTORS, THE OWNER, OR RE-DESIGN ISSUES.

6. ALL INDICATED WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS

7. DO NOT USE ANY PART OF THE OWNER'S BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED FOR SUCH PURPOSES BY THE OWNER.

8. ALL CONTRACT WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE WRITTEN SPECIFICATIONS FOR THIS PROJECT WHICH ARE CONSIDERED TO BE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS SHALL MAINTAIN (AT THE JOB SITE) AND REFER TO COPIES OF THE WRITTEN SPECIFICATIONS AS PART OF THESE DRAWINGS. REFER TO THE WRITTEN SPECIFICATIONS IN CONJUNCTION WITH THE PLANS FOR FULL PROJECT SCOPE. IN ALL CASES OF DISCREPANCY BETWEEN PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN AND WHERE IT IS UNCLEAR, SUCH CASES SHALL BE REFERRED TO THE ENGINEER FOR ADJUDICATION

9. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED PLUMBING, ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, INTERIOR DECOR AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER PRIOR TO BID SUBMISSION.

10. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS BID FOR THE PROPOSED WORK. HE SHALL BE RESPONSIBLE TO VERIFY FIELD CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMISSION OF BIDS IN WRITING

11. THE MECHANICAL CONTRACTOR SHALL REVIEW THESE PLANS AND SPECIFICATIONS. AS WELL AS THE RELATED PLUMBING, ELECTRICAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND TRADES ON THIS PROJECT TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.

12. THE MECHANICAL CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND AS-BUILD CONDITIONS PERTAINING TO THE HVAC SYSTEMS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL, PARTS, SUPPLIES AND LABOR TO BALANCE ALL HVAC EQUIPMENT TO OWNER'S SATISFACTION.

13. CONTRACTOR SHALL COORDINATE HIS SCHEDULING WITH THE OWNER AND GENERAL CONTRACTOR TO COMPLY WITH THE OWNERS USAGE OF THE BUILDING.

14. IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS, IE ASBESTOS, IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN REMEDIATED

15. CONTRACTOR RESPONSIBLE FOR THE PROPER CARE OF ALL OWNER'S EQUIPMENT AND/OR FURNISHINGS WHICH ARE REQUIRED TO BE TEMPORARILY REMOVED, STORED OR RELOCATED. CONTRACTOR SHALL REPLACE, REPAIR OR REIMBURSE OWNER FOR ALL DAMAGES TO SUCH PROPERTIES AT FULL REPLACEMENT VALUE AND EQUIVALENCY. CONTRACTOR SHALL ADVISE OWNER FOR DISPOSITION OR REMOVED EQUIPMENT AND/OR MATERIALS.

16. CONTRACTOR'S WORK MAY BE REQUIRED OUTSIDE OF DESIGNATED SPACE. ALL SYSTEMS BEING DEMOLISHED AND REMOVED, MODIFIED, AND/OR TERMINATED SHALL BE FIELD VERIFIED TO INSURE NO WORK PERFORMED, INSIDE OR OUTSIDE OF THE DESIGNATED SPACE, SHALL DISRUPT ANY SERVICE OR SYSTEMS OF ANY OTHER AREAS, IF ANY CONDITIONS ARISE THAT ARE NOT IDENTIFIED ON DRAWINGS IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE ENGINEER OR OWNER. NO WORK SHALL PROCEED WITHOUT APPROVALS FROM ENGINEER OR OWNER.

17 DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY HAVE TO BE ADAPTED. TO COMPLY WITH EXISTING BUILDING CONDITIONS. CONTRACTOR SHALL SUBMIT HVAC SHOP DRAWINGS, INDICATING LOCATIONS, AND ROUTING OF DUCTS, PIPING, AND WIRING.

18. DUCTING AND PIPING SHOWN ON DRAWINGS SHOW THE GENERAL RUN AND CONNECTIONS AND MAY OR MAY NOT IN ALL PARTS BE SHOWN IN ITS EXACT POSITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING THE DUCTING/PIPING SUITABLE IN EVERY RESPECT FOR THE WORK DUCTWORK/PIPING SHALL BE INSTALLED SO THAT ACCESS, CLEARANCE, HEADROOM AND PITCH ARE MAINTAINED. CONTRACTORS OF THE VARIOUS TRADES SHALL COORDINATE THE INSTALLATION.

19. ALL CONTRACTORS SHALL PROVIDE CUTTING AND PATCHING FOR THEIR RESPECTIVE TRADES.

20. ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BEAR THE LABEL OF AN APPROVING AGENCY. LISTING AND LABELING AGENCY QUALIFICATIONS: A "NATIONALLY RECOGNIZED TESTING LABORATORY" AS DEFINED IN MECHANICAL CODE

21. ALL PENETRATIONS THRU WALL, FLOORS, AND CEILINGS SHALL BE SEALED WITH A UL APPROVED FIRESTOP MATERIAL SUITABLE FOR CONSTRUCTION MATERIAL TO MAINTAIN FIRE, SMOKE, AND DRAFT INTEGRITY OF STRUCTURE. FIRE RESISTANT SEALER SHALL BE TESTED IN ACCORDANCE WITH ASTM 814. INSTALL SEALANT, INCLUDING FOAMING, PACKING AND OTHER ACCESSORY MATERIALS TO FILL OPENINGS WHERE FIRE-RATED WALL PENETRATIONS OCCUR. COMPLY WITH INSTALLATION REQUIREMENTS ESTABLISHED BY TESTERS AND INSPECTION AGENCY.

22. ALL CONTRACTORS REMOVING ANY EQUIPMENT, PIPES, DUCTS, CONDUITS, ETC SHALL PATCH ALL SURFACES DISTURBED BY THIS WORK TO MATCH ADJACENT SURFACES.

23. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER HANDLING, DISPOSAL & ASSOCIATED COSTS OF ALL REFRIGERANT MATERIAL, DURING THIS CONTRACT, IN ACCORDANCE WITH ALL FEDERAL. STATE AND LOCAL CODES AND/OR REGULATIONS.

24. THE ELECTRICAL CONTRACTOR TO PROVIDE, INSTALL AND WIRE DUCT MOUNTED SMOKE DETECTORS, ELECTRIC CONTRACTOR SHALL ALSO PROVIDE AND WIRE A REMOTE MONITORING KEY OPERATED TEST AND ALARM STATION FOR EACH DUCT SMOKE DETECTOR. THE REMOTE TEST ALARM STATION SHALL BE MOUNTED AS DIRECTED IN THE AREA OF THE SMOKE DETECTOR

25. THE MECHANICAL CONTRACTOR TO PROVIDE ALL ROOF CURBS, EQUIPMENT RAILS, SUPPORTS, ROOF PORTALS, AND ASSOCIATED EQUIPMENT TO ENSURE A COMPLETE INSTALLATION FOR NEW HVAC EQUIPMENT. MECHANICAL CONTRACTOR RESPONSIBLE TO PROVIDE EXACT LOCATIONS AND "APPROVED" EQUIPMENT SUBMITTALS, OF ROOF CURBS, EQUIPMENT SUPPORTS, ROOF PORTALS, AND ASSOCIATED EQUIPMENT TO THE ARCHITECT. ALL ROOF PENETRATIONS, EQUIPMENT SUPPORTS, ROOF PORTALS AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY ROOFING SUB-CONTRACTOR. ROOFING CONTRACTOR SHALL BE BONDED AND ALL WORK SHALL BE DONE SO AS NOT TO VOID ROOF WARRANTY. ROOF CONTRACTOR SHALL PROVIDE BASE FLASHING, AND PROVIDE TEMPORARY WEATHER-PROOF COVERS UNTIL MECHANICAL CONTRACTOR INSTALLS NEW HVAC UNITS. MECHANICAL CONTRACTOR TO PROVIDE COUNTER FLASHING

26. FURNISH TO THE ELECTRICAL CONTRACTOR ALL MOTOR STARTERS AND CONTROL DEVICES FOR MECHANICAL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE STARTER AND CONTROL EQUIPMENT FOR ALL MOTORS.

27. ALL HVAC EQUIPMENT CONTAINING COOLING (EVAPORATOR) COILS INCLUDING DOWN FLOW ROOF TOP UNIT SHALL HAVE CONDENSATE MONITORING FOR OVERFLOW PROTECTION FOR PRIMARY OR SECONDARY DRAIN PANS AS APPLICABLE. SUCH DEVICES SHALL BE LABELED TO COMPLY WITH UL# 508, AND SHALL SHUT DOWN COOLING SYSTEM AND SIGNAL BMS SYSTEM IF APPLICABLE.

28. PROVIDE GAS PIPING SUPPORTS ON ROOF AT ALL DIRECTION CHANGES AND STRAIGHT RUNS WITH SPACING NOT EXCEEDING LENGTHS STATED IN TABLE 415.1 OF IFGC, 2009 FOR MATERIALS AND LISTED PIPE SIZES. SUPPORTS SHALL BE SADDLE BLOCK ROLLER TYPE WITH PIPE SECURED TO STAND WITH CLAMP OR METAL BAND. SUPPORT SHALL NOT BE SECURED TO ROOF SURFACE. BOTTOM OF PIPING SHALL BE MINIMUM 3 1/2" ABOVE ROOF SURFACE.

29. ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS, VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES. WALLS. SOFFITS WITH OTHER PLUMBING/ ELECTRICAL FEEDS. ALL SUCH LOCATIONS SHALL BE REVIEWED WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

30. ALL PIPING, EXCEPT IN MECHANICAL ROOMS SHALL BE ORGANIZED NEATLY AND KEPT TIGHT TO WALLS AND CEILINGS WITH STANDARD CLEARANCE FOR FUTURE FURRING BY GENERAL CONTRACTOR.

31. FURNISH AND INSTALL PIPE SLEEVES PASSING THROUGH INTERIOR WALLS. SLEEVES SHALL BE STEEL PIPE: ASTM A53, TYPE E, GRADE A, SCHEDULE 40, GALVANIZED PLAIN ENDS, 2" LONGER THAN

32. ALL DUCTWORK SHALL BE CONNECTED TO MOTORED EQUIPMENT WITH FLEXIBLE DUCT

33. ALL RECTANGULAR RIGID DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL. FABRICATION OF DUCTWORK AND INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS AND RECOMMENDATIONS

35. ALL INTERIOR RECTANGULAR DUCTWORK SHALL HAVE DUCT LINER. SEE SPECIFICATION FOR

34. ALL DUCTWORK SIZES SHOWN ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS.

36. ALL INTERIOR ROUND DUCTWORK EXPOSED WITHIN FINISHED SPACES SHALL BE FACTORY

FABRICATED DOUBLE WALLED WITH INTERSTITIAL INSULATION. SEE SPECIFICATION FOR DETAILS 37. ALL INTERIOR ROUND DUCTWORK CONCEALED OR EXPOSED IN NON-FINISHED AREA, EG ATTIC, ABOVE CEILING, ETC. SHALL BE SINGLE WALLED EXTERNALLY INSULATED WITH FLEXIBLE DUCTWRA

38. ALL FLEXIBLE DUCTWORK SHALL BE CLASS I, LABELED UL 181. SEE SPECIFICATIONS FOR DETAILS.

MECHANICAL SPECIFICATIONS

A. DRAWINGS AND GENERAL & SUPPLEMENTARY CONDITIONS SHALL APPLY TO WORK OF THIS SECTION. B. ALL MATERIALS SHALL BE NEW AND THE BEST OF THEIR RESPECTIVE KINDS, SUITABLE FOR THE CONDITIONS AND DUTIES IMPOSED UPON SAME AT THE BUILDING. MATERIALS SHALL MATCH EXISTING FOR SIMILAR SERVICE EXCEPT AS OTHERWISE NOTED HEREIN. THEY SHALL GENERALLY BE OF

ONLY. INSTALLATION OF THE WORK SHALL BE PERFORMED BY SKILLED TRADESMEN. C. CODE COMPLIANCE: ALL WORK SHALL BE INSTALLED IN CONFORMANCE TO BUILDING CODES. HAVING JURISDICTION INCLUDING BUT NOT LIMITED TO THE 2015 IBC. 2011 NATIONAL ELECTRICAL CODE. NATIONAL

REPRESENTATIVE MANUFACTURER. BRAND NAMES ARE SPECIFIED TO INDICATE A STANDARD OF QUALITY

D. IF ANY UNEXPECTED DISCOVERY OF SUSPECTED HAZARDOUS MATERIALS, IE ASBESTOS, IS MADE DURING THE COURSE OF WORK, THE CONTRACTOR SHALL REPORT THE DISCOVERY IMMEDIATELY TO THE OWNER. THE CONTRACTOR SHALL STOP ANY WORK THAT MAY DISTURB THE SUSPECTED HAZARDOUS MATERIAL. CONTRACTOR SHALL RESUME WORK AFTER ALL HAZARDOUS MATERIAL HAS BEEN

FIRE CODE, 2015 INTERNATIONAL MECHANICAL CODE AND 2015 THE INTERNATIONAL FUEL GAS CODE.

A. IF CONTRACTOR IS CONSIDERING SUBSTITUTION OF BASE SPECIFICATION, SUCH EQUIPMENT SHALL MEET OR EXCEED ALL LISTED CAPACITIES, OPERATIONAL EFFICIENCIES AND POWER/CONTROL REQUIREMENTS OF BASE SPECIFIED EQUIPMENT. COSTS FOR ANY REVISIONS TO STRUCTURAL DESIGN OR MECHANICAL/ELECTRICAL REQUIREMENTS DUE TO EQUIPMENT SUBSTITUTIONS SHALL BE PAID BY

3. VERIFYING EXISTING CONDITIONS, REMOVALS AND ALTERATIONS

A. THE CONTRACTOR SHALL VISIT THE PREMISES TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SPECIFICATIONS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO THE SUBMISSION OF A BID PROPOSAL. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY WITH THESE REQUIREMENTS AND A BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE HE HAS DONE SO.

B. THE CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE, ADJUST, ADAPT AND MODIFY EXISTING EQUIPMENT AND/OR SYSTEMS AS REQUIRED BY THE DRAWINGS OR SPECIFICATIONS AND AS MAY BE REQUIRED WHEN SUCH WORK IS UNCOVERED AND FOUND TO INTERFERE WITH THE COMPLETION OF WORK IN THIS CONTRACT OR OTHER CONTRACT WORK.

C. ALL REMOVED EQUIPMENT AND MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE. PRIOR TO REMOVAL COORDINATE DISPOSITION WITH OWNER D. PROVIDE SHUTDOWNS, DRAINING AND REFILLING, RECONNECTIONS AND STARTUPS OF EXISTING SYSTEMS NECESSARY IN CONNECTION WITH THE NEW WORK. COORDINATE SHUTDOWNS WITH THE **OWNERS REPRESENTATIVE**

. TEMPORARY SERVICES: PROVIDE TEMPORARY SERVICES DURING THE INTERRUPTION IN SERVICE CREATED BY THE DEMOLITION OF THE EXISTING FACILITY AND UNTIL THE NEW FACILITY BECOMES OPERATIONAL. PROCURE RENTAL EQUIPMENT OF ADEQUATE CAPACITIES AND ASSUME ALL COSTS RELATED TO THIS INSTALLATION AND OPERATION OF SAME.

4. COORDINATION

A. MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADE.

B. COORDINATE REFRIGERANT PIPING SIZES, ROUTING & SUPPORTS.

C. COORDINATE LOCATION OF ROOF CURBS, EQUIPMENT SUPPORTS, AND ROOF PENETRATIONS.

D. COORDINATE LOCATION OF MECHANICAL EQUIPMENT, PIPING AND DUCTWORK WITH THE WORK OF OTHER TRADES, PROVIDING CLEARANCES FOR INSULATION, SERVICING, REMOVAL OF COMPONENTS AND EQUIPMENT DISASSEMBLY.

E. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT.

F. SEQUENCE PHASES OF MECHANICAL WORK WITH THE WORK OF OTHER TRADES.

5. SHOP DRAWINGS

A. SUBMIT A MINIMUM FIVE (5) COPIES OF MANUFACTURER'S EQUIPMENT DRAWINGS CONSISTING OF: DIMENSIONAL PLANS. PRODUCT. AND PERFORMANCE DATA; WIRING DIAGRAMS; AND OPERATING AND MAINTENANCE INSTRUCTIONS INCLUDING TROUBLE SHOOTING PROCEDURES

B. WORK SHALL NOT PROCEED PRIOR TO SHOP DRAWING RELEASE BY THE ENGINEER WITH STAMPED NOTATION "NO EXCEPTIONS TAKEN" APPLIED

6. RECORD DRAWINGS

A. REPRODUCIBLE RECORD DRAWINGS SHALL BE SUPPLIED UPON WHICH CORRECTIONS SHALL BE MADE TO PROVIDE AN ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED

B. AS-BUILT INFORMATION SHALL BE SUBMITTED AS FOLLOWS: WORK SHALL NOT PROCEED PRIOR TO SHOP DRAWING RELEASE BY THE ENGINEER WITH STAMPED NOTATION "NO EXCEPTIONS TAKEN" APPLIED. a. ONE (1) SET OF REPRODUCIBLE DRAWINGS. b. TWO (2) SETS OF PRINTS.

8. REMOVALS: REMOVE EXISTING MATERIALS AND EQUIPMENT INDICATED AND REPLACE WITH NEW MATERIALS AS INDICATED

9. CUTTING AND PATCHING

A. PERFORM CUTTING AND PATCHING IN A COMPETENT AND WORKMANLIKE MANNER WITHOUT DAMAGE TO WORK OR STRUCTURES TO REMAIN.

B. CUT REMOVE AND LEGALLY DISPOSE OF DESIGNATED MATERIALS, EQUIPMENT AND COMPONENTS, INCLUDING BUT NOT LIMITED TO GYPSUM BOARD, CONCRETE, CEILING TILE, DUCTS, PIPING AND OTHER MATERIALS REQUIRING REMOVAL TO INSTALL THE NEW WORK.

C. PROTECT THE STRUCTURE, FURNISHINGS, FINISHES AND ADJACENT MATERIALS NOT INDICATED OR

D. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS.

F PATCH EXISTING FINISHED SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS MATCHING EXISTING MATERIALS. USE EXPERIENCED INSTALLERS TO RESTORE SURFACE OF MATERIALS BEING PATCHED. 10. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE, IN WRITING, FOR A PERIOD OF ONE YEAR, COMMENCING FROM THE DATE OF ACCEPTANCE BY THE OWNER, ALL MATERIALS AND WORKMANSHIP PROVIDED AS PART OF THIS

11. INSPECTION

A. UNLESS OTHERWISE INDICATED, THE ARRANGEMENT, POSITION, CONNECTIONS, ETC., SHOWN ON THE DRAWINGS SHALL BE TAKEN AS DIAGRAMMATIC.

B. THE RIGHT IS RESERVED BY THE ENGINEER TO MAKE MINOR CHANGES IN LOCATIONS AND ARRANGEMENTS WHEN REQUIRED BY JOB DEVELOPMENT WITHOUT ADDITIONAL COMPENSATION TO THIS CONTRACTOR 12. SHEET METAL WORK AND ACCESSORIES:

A. ALL INTERIOR DUCTWORK SHALL BE CONSTRUCTED OF PRIME QUALITY GALVANIZED SHEET STEEL, ASTM

B. ALL EXTERIOR DUCTWORK SHALL BE CONSTRUCTED OF PRIME QUALITY GALVANIZED SHEET STEEL, ASTM A527, G-90 GALVANIZED

MATERIAL GAUGES AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS FOR 2" W.G. POSITIVE PRESSURE SUPPLY AND 1" W.G. NEGATIVE PRESSURE

D. PROVIDE 3/8"- 1'-0" SCALE SHEET METAL SHOP DRAWINGS OF DUCT LAYOUT INDICATING GAUGES. PRESSURES, FITTINGS, REINFORCING DETAILS, SPACING, SEAM AND JOINT CONSTRUCTION DETAILS.

E. ALL SHEET METAL DUCTWORK SEAMS, JOINTS AND FLANGES SHALL BE COATED WITH A WATER BASED LOW YOCS MASTIC SEALANT APPROVED FOR SUCH USE.

A. COMPLY WITH NFPA STANDARD 90A ASTM STANDARD AHC-101. ASTM C 1071, TYPE 2, WITH COATED SURFACE EXPOSED TO AIR STREAM TO PREVENT EROSION OF GLASS FIBERS.

B. LINER SHALL BE BY JOHNS MANVILLE CO LINACOUSTIC RC OR APPROVED EQUAL

FINISH AS MANUFACTURED BY VENTURE TAPE OR ENGINEER APPROVED EQUAL.

HIGHER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM TEST E-84. MINIMUM R-4.2 VALUE.

a. THICKNESS 1 INCH. DENSITY 3/4 POUNDS. THERMAL PERFORMANCE: "K-FACTOR" EQUAL TO 0.28 OR BETTER. AT A MEAN TEMPERATURE OF 75 DEG. F. FLAME SPREAD RATING NOT MORE THAN 25, SMOKE DEVELOPED RATING NO

a. THICKNESS 1 1/2 INCH, DENSITY 1 1/2 POUNDS. THERMAL PERFORMANCE: "K-FACTOR" EQUAL TO 0.28 OR BETTER, AT A MEAN TEMPERATURE OF 75 DEG. F. FLAME SPREAD RATING NOT MORE THAN 50, SMOKE DEVELOPED

RATING NO HIGHER THAN 100 WHEN TESTED IN ACCORDANCE WITH ASTM TEST E-84. MINIMUM R-6 VALUE. b. THE INSULATED DUCT ASSEMBLY SHALL BE WRAPPED WITH A SHEET TYPE PROTECTIVE MEMBRANE THAT IS UV AND OZONE RESISTANT ALUMINUM CLAD SURFACE WITH HIGH DENSITY CROSS- LINKED POLYETHYLENE WITH MULTIPLE LAYERS WITH A MINIMUM 10 YEAR WARRANTY. PRODUCT SHALL BE VENTURE CLAD #1577CW WITH WHITE

E. LINER ADHESIVE SHALL COMPLY WITH NFPA STANDARD 90A AND ASTM C 916. LINER TO BE AFFIXED TO DUCT WITH LOW VOX ADHESIVE AND WELD PINS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INCREASE DUCT SIZE TO COMPENSATE FOR LINER THICKNESS.

14. DUCT INSULATION:

A. PROVIDE 1 1/2" THICK 12 PCF DENSITY FIBERGLASS BLANKET INSULATION, ASTM C 533 WITH FOIL FACED VAPOR BARRIER JACKET WITH SELF SEALING LAP ON ALL UNLINED SUPPLY AND RETURN AIR DUCT WORK

B. UL LISTED WITH FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPED RATING 50 OR LESS. PROVIDE TIGHT CLOSURE AT POINT OF CONNECTION TO EXISTING INSULATION.

15. OUTDOOR DUCT AND PLENUMS, INSULATION AND JACKETING:

A. ALL EXTERIOR SUPPLY AND DUCTWORK SHALL BE EXTERNALLY INSULATED WITH MINIMUM 2" THICK RIGID INSULATING BOARD HAVING A MINIMUM INSULATING VALUE OF R-8. INSULATION SHALL BE APPLIED WITH ADHESIVE AND WELD PINS IN ACCORDANCE WITH INSULATION MANUFACTURERS RECOMMENDATIONS.

B. THE INSULATED DUCT ASSEMBLIES SHALL BE WRAPPED WITH A SHEET TYPE PROTECTIVE MEMBRANE THAT IS UV

MULTIPLE LAYERS WITH A MINIMUM 10 YEAR WARRANTY C. PRODUCT SHALL BE FLEX CLAD-400 WITH WHITE FINISH AS MANUFACTURED BY MFM BUILDING PRODUCTS CORP OR ENGINEER APPROVED EQUAL

AND OZONE RESISTANT ALUMINUM CLAD SURFACE WITH HIGH DENSITY CROSS-LINKED POLYETHYLENE WITH

16. FLEXIBLE DUCT:

A. PROVIDE FLEXIBLE AIR DUCT WHERE INDICATED ON PLANS ONLY.

B. DUCT SHALL BE LISTED BY UNDERWRITERS LABORATORIES UNDER UL STANDARD 181 AS A CLASS 1 FLEXIBLE AIR DUCT AND COMPLYING WITH NFPA STANDARDS 90A AND 90B.

C. DUCT SHALL BE FACTORY FABRICATED, INSULATED, ROUND DUCT, WITH OUTER JACKET ENCLOSING 1" THICK, GLASS FIBER INSULATED AROUND A CONTINUOUS INNER LINER. REINFORCEMENT SHALL BE STEEL WIRE HELIX ENCAPSULATED IN THE INNER LINER. OUTER JACKET SHALL BE GLASS-REINFORCED SILVER MYLAR WITH CONTINUOUS HANGING TAB, INTEGRAL FIBERGLASS TAPE, AND NYLON HANGING CORD. INNER LINER SHALL BE POLYETHYLENE FILM. FLEXIBLE DUCT CLAMPS SHALL BE STAINLESS STEEL WITH CADMIUM PLATED HEX SCREWS. MINIMUM INSULATION R-4.2 VALUE.

17. FLEXIBLE CONNECTORS::

A. FLAME-RETARDED OR NON COMBUSTIBLE FABRICS, COATINGS AND ADHESIVES COMPLYING WITH UL STANDARD 181. CLASS 1. GLASS FABRIC DOUBLE COATED WITH POLYCHLOROPRENE. MINIMUM WEIGHT 26 OZ. PER SQ. YD.

B. JOINTS AT FLEXIBLE CONNECTIONS SHALL BE SEALED WITH GASKET MATERIAL IN ACCORDANCE WITH SMACNA DETAIL FIGURE 2-19. FLEXIBLE CONNECTIONS SHALL BE CONSTRUCTED FROM NEOPRENE FLAME RETARDANT

18. AIR OUTLETS:

A. FURNISH & INSTALL SUPPLY AIR CEILING DIFFUSERS & GRILLES, RETURN AIR CEILING REGISTERS & GRILLES WITH ALL ALUMINUM OR STEEL CONSTRUCTION. THE FINISH SHALL BE BAKED ENAMEL WITH COLORS TO BE SELECTED BY THE ARCHITECT. MANUFACTURED BY TITUS OR APPROVED EQUAL

B. CONFIGURATION: VOLUME-DAMPER ASSEMBLY AND CONTROL COMPONENTS INSIDE UNIT CASING.

C. CASINGS: STEEL OR ALUMINUM SHEET METAL OF THE FOLLOWING MINIMUM THICKNESSES: UPSTREAM PRESSURE SIDE: 0.0239-INCH STEEL. DOWNSTREAM PRESSURE SIDE: 0.0179-INCH STEEL

D. ACCESS: REMOVABLE PANELS TO PERMIT ACCESS TO DAMPERS AND OTHER PARTS REQUIRING SERVICE.

ADJUSTMENT OR MAINTENANCE: WITH AIRTIGHT GASKET AND QUARTER TURN LATCHES

E. VOLUME DAMPER: CONSTRUCT OF GALVANIZED STEEL WITH PERIPHERAL GASKET AND SELF-LUBRICATING BEARINGS. MAXIMUM DAMPER LEAKAGE: 2 PERCENT OF NOMINAL AIRFLOW AT 1-INCH WG INLET STATIC PRESSURE. DAMPER POSITION: NORMALLY CLOSED

F. REGULATOR ASSEMBLY: EXTRUDED-ALUMINUM OR 20-GAGE GALVANIZED-STEEL COMPONENTS; KEY DAMPER BLADES INTO SHAFT WITH NYLON-FITTED PIVOT POINTS LOCATED INSIDE UNIT CASING.

9. CONTROLS: DAMPER OPERATOR, THERMOSTAT, AND OTHER DEVICES SHALL BE COMPATIBLE WITH THE

20. TESTING AND BALANCING:

A. INDEPENDENT TESTING AND BALANCING AGENCY SHALL BE RETAINED BY THE CONTRACTOR TO BALANCE THE AIR AND WATER SYSTEMS. THE TEST AND BALANCE AGENCY SHALL HAVE A STATE OF NEW JERSEY PROFESSIONAL ENGINEER ON STAFF OR RETAINED AS A CONSULTANT

B. THE BALANCER SHALL PERFORM WORK IN ACCORDANCE WITH THE AABC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE AND THE LATEST EDITION OF THE ASHRAE HANDBOOK.

C. MECHANICAL CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND AS-BUILT CONDITIONS PERTAINING TO THE HVAC SYSTEMS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIAL, PARTS, SUPPLIES AND LABOR TO BALANCE ALL HVAC EQUIPMENT TO OWNER'S SATISFACTION.

D. SUBMIT CERTIFIED REPORTS CONTAINING SEAL AND SIGNATURE OF THE TEST AND AIR BALANCE ENGINEER CERTIFYING THAT THE SYSTEM WAS TESTED AND BALANCED IN ACCORDANCE WITH REFERENCED STANDARDS, AND IS OPERATING ACCORDING TO THE CONTRACT DOCUMENTS.

E. REPORTS SHALL INCLUDE A SINGLE LINE DIAGRAM OF AIR SYSTEMS WITH AIR OUTLETS IDENTIFIED NUMERICALLY. AIR OUTLETS WILL BE TABULATED IN COLUMNAR FORM WITH THE FOLLOWING DATA PROVIDED FOR EACH NUMERICALLY IDENTIFIED OUTLET: a. REGISTER SIZE b DIFFUSER SIZE

c.FREE AREA IN SQUARE FEET, AIR VELOCITY, REGISTER CONSTANT, CFM. I. FOR EACH FAN SUBMIT DESIGN AND RECORDED CFM, STATIC PRESSURE, FAN RPM AND MOTOR AMPERAGE IN SEPARATE VERTICAL COLUMNS

21. ELECTRIC CONTROLS:24-V DAMPER ACTUATOR WITH WALL MOUNTED ELECTRIC THERMOSTAT AND

24. GAS PIPING

A. THE CONTRACTOR SHALL INSTALL NATURAL GAS PIPING CONNECTING TO EQUIPMENT REQUIRING SAME AS INDICATED ON THE DRAWINGS. B. PIPING SHALL BE BLACK STEEL ASTM A53, B ERW.

UP TO 4-INCH: BUTT WELD OVER 4-INCH: ELECTRIC RESISTANCE WELD

C. FITTINGS: UP TO 4-INCH: MALLEABLE IRON, SCREWED - IPS ASTM A197 & ANSI B16.3 OVER 4-INCH: BUTT WELDED STEEL, ASTM A234 AND ANSI B16.9

D. VALVES: UP TO 4-INCH: GAS COCK, SCREWED ENDS, MUELLER CO. NO. H-11024 OVER 4-INCH: DIAPHRAGM TYPE, FLANGED ENDS, GRINNEL CO #2402-3TV

25. DUAL TEMPERATURE WATER PIPING

A. ALL HOT WATER DISTRIBUTION PIPING SHALL BE TYPE L HARD DRAWN COPPER. ALL JOINTS SHALL BE MADE WITH VIEGA PRO PRESS SYSTEM OR ENGINEER APPROVED EQUAL

B. HOT WATER PIPING INSULATION SHALL BE MINERAL FIBER PREFORMED WITH ALL SERVICE JACKET (AS.I). ALL FITTING AND VALVES SHALL BE COVERED WITH PVC COVERS. INSULATION SHALL BE UL LABELED FOR 25/50 FIRE AND SMOKE DEVELOPED RATINGS. PIPE SIZE TO 3": 1" THICK, PIPE SIZE 4" AND LARGER: 1 1/2" THICK INSULATION.

C. ALL TAKE OFFS FROM MAINS SHALL HAVE MINIMUM (3) ELBOW SWINGS EXPANSION WITH SHUT-OFF VALVES. D. PITCH PIPING, IN GENERAL, BACK TOWARDS BOILER OR WATER HEATER, WHERE NOT POSSIBLE, PROVIDE LOW POINT DRAIN

26. REFRIGERANT PIPING

A. ALL REFRIGERANT PIPING SHALL BE COPPER TYPE ACR WITH MATCHING WROUGHT COPPER FITTINGS.

B. ALL JOINTS SHALL BR BRAZED, SOLDER JOINTS NOT PERMITTED.

C. PIPING SHALL BE INSTALLED IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS, RECOMMENDED GOOD PRACTICE AND CODE PROVISIONS. D. SUCTION AND HOT GAS PIPING SHALL BE INSULATED WITH MINIMUM 1/2" THICK EXPANDED FOAM TM

F. PRECHARGED LINE SETS ARE PERMITTED AS A SUBSTITUTION FOR FIELD ASSEMBLED PIPING SYSTEMS IF USED ACCORDING TO THEIR LISTINGS AND REFRIGERANT TYPE.

E. EXTERIOR INSULATED PIPING SHALL HAVE PVC OR ALUMINUM JACKETING TO PROTECT INSULATION FROM

b. ALL PIPING SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. ALL HANGERS, RODS AND IN STRICT CONFORMITY WITH ALL APPLICABLE CODE REQUIREMENTS.

ACCORDANCE WITH SMACNA AND ASHRAE RECOMMENDATIONS. b. DUCTWORK SHALL BE SUPPORTED WHERE REQUIRED WITH RESTRAINING CABLES OR STRAPS. c. ROUND FLEXIBLE DUCTWORK TO BE SUPPORTED AS RECOMMENDED BY DUCT MANUFACTURER.

ISOLATORS, TO PREVENT THE TRANSMISSION OF OBJECTIONABLE NOISES, SOUND OR VIBRATIONS TO THE OCCUPIED SPACES AND TO THE BUILDING STRUCTURES.

B. VIBRATION ISOLATORS FOR CEILING SUPPORTED EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURE ABOVE AND HAVE A MAXIMUM LATERAL MOTION UNDER EQUIPMENT STARTUP OR SHUTDOWN CONDITIONS OF 1/4". MOTIONS IN EXCESS SHALL BE

C. VIBRATION ISOLATOR SHALL BE PROVIDED BY ONE OF THE FOLLOWING MANUFACTURERS:

- a. MASON INDUSTRIES

A. FURNISH TO THE ELECTRICAL CONTRACTOR WHO SHALL INSTALL AND WIRE STARTER AND CONTROL EQUIPMENT FOR ALL MOTORS.

IRON FRAME MOUNTING

C. GENERAL NOTES a. ALL STARTERS FOR MOTOR 1/2 HP AND ABOVE SHALL BE MAGNETIC ACROSS-THE-LINE TYPE WITH HOA SWITCH. SUCH STARTERS SHALL BE 208 OR 460 VOLTS, 3 PHASE, 60 CYCLE, b. ALL MAGNETIC STARTERS SUBJECT TO MANUAL START AND IN DIRECT VIEW OF THE MOTORS THEY CONTROL SHALL HAVE MOMENTARY CONTACT START AND STOP BUTTONS AND PILOT LIGHT BUILT INTO COVER. ALL SELECTOR SWITCHES IN STARTERS SHALL BE OF THE

c. WHERE STARTERS ARE NOT IN SIGHT OF MOTORS THEY CONTROL, A LOCAL DISCONNECT SWITCH WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR

d. ALL MAGNETIC STARTERS SHALL HAVE THERMAL OVERLOAD IN EACH PHASE LEG AND LOW VOLTAGE PROTECTION. TYPE IN ACCORDANCE WITH MOTOR NAMEPLATE DATA. ALL PARTS SUBJECT TO WEAR, ARCING, ETC., SHALL BE RENEWABLE.

a. PROVIDE PIPE HANGERS AND SUPPORTS IN ACCORDANCE WITH PIPE SIZE AND SPAN SCHEDULES IN THE 2015 IMC. SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE INTENDED. HANGERS AND SUPPORTS SHALL BE INSTALLED c. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF HANGER RODS, INSERTS, ETC. IN REQUIRED LOCATIONS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND APPROVED.

B. DUCTWORK

a. PROVIDE HANGERS AND SUPPORTS FOR ALL RIGID DUCTWORK OF COMPATIBLE MATERIAL AS REQUIRED IN

A. ALL ROTATING, REVOLVING OR RECIPROCATING EQUIPMENT, SHALL BE FURNISHED WITH SEISMICALLY DESIGNED VIBRATION

RESTRAINED BY SPRING TYPE MOUNTINGS.

b. VIBRATION ELIMINATOR CO.

c.CONSOLIDATED KINETICS CO

30. MOTOR STARTERS & CONTROL DEVICES

B. MOTOR STARTERS SHALL BE CUTLER HAMMER, WESTINGHOUSE OR ALLEN-BRADLEY MANUFACTURE, SUITABLE FOR WALL OR ANGLE

MAINTAIN CONTACT TYPE.

e. ALL COILS, CORES, RESISTANCE, INSULATION CONTACTS, TRIPPERS, ETC. OF STARTERS AND RELAYS SHALL BE OF THE APPROVED f. ALL WIRING, STARTERS, SWITCHES, ETC., SHALL BE IN FULL ACCORDANCE WITH ALL LOCAL AND INSURANCE UNDERWRITERS' CODE

MECHANICAL ABBREVIATIONS ABOVE FINISHED FLOOR MC MECHANICAL CONTRACTOR ACCESS DOOR NAE NETWORK AUTOMATION ENGINE BACKDRAFT DAMPER OUTDOOR AIR INTAKE BOD BOTTOM OF DUCT PC PLUMBING CONTRACTOR RR RETURN REGISTER CEILING DIFFUSER SR SUPPLY REGISTER CFM CUBIC FEET PER MINUTI ELECTRICAL CONTRACTOR WMS | WIRE MESH SCREEN EXHAUST GRILLE WR WALL REGISTER EXHAUST REGISTER

ENGINEER ARCHITECT & ENGINEER SIGNATURE & SEAL BOX SEAL DATE SIGNATURE Sin ₩ | N | N | N No. REVISIONS / ISSUES DATE PERMIT SET 3/23/2020 VARIANCE 5/20/2020 DMC DMC

mloldle

Monmouth Ocean Design Exper

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27. HANGERS AND SUPPORTS

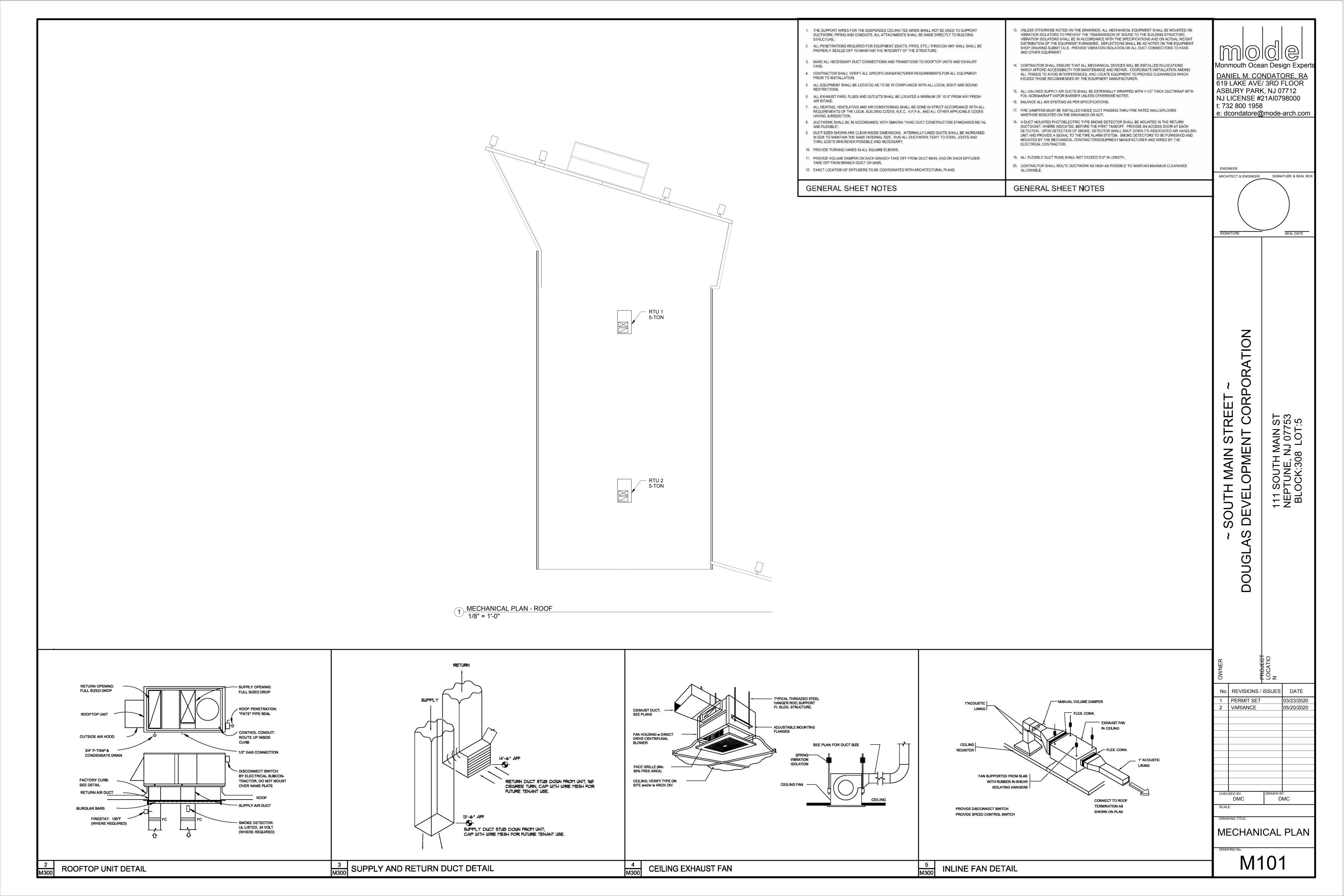
d. EXPANSION SHIELDS SHALL BE PROVIDED TO SUPPORT HANGER RODS AT REQUIRED INTERVALS. EXPANSION SHIELDS SHALL BE "PHILLIPS" ANCHORS, HILTI CO., OR APPROVED EQUAL.

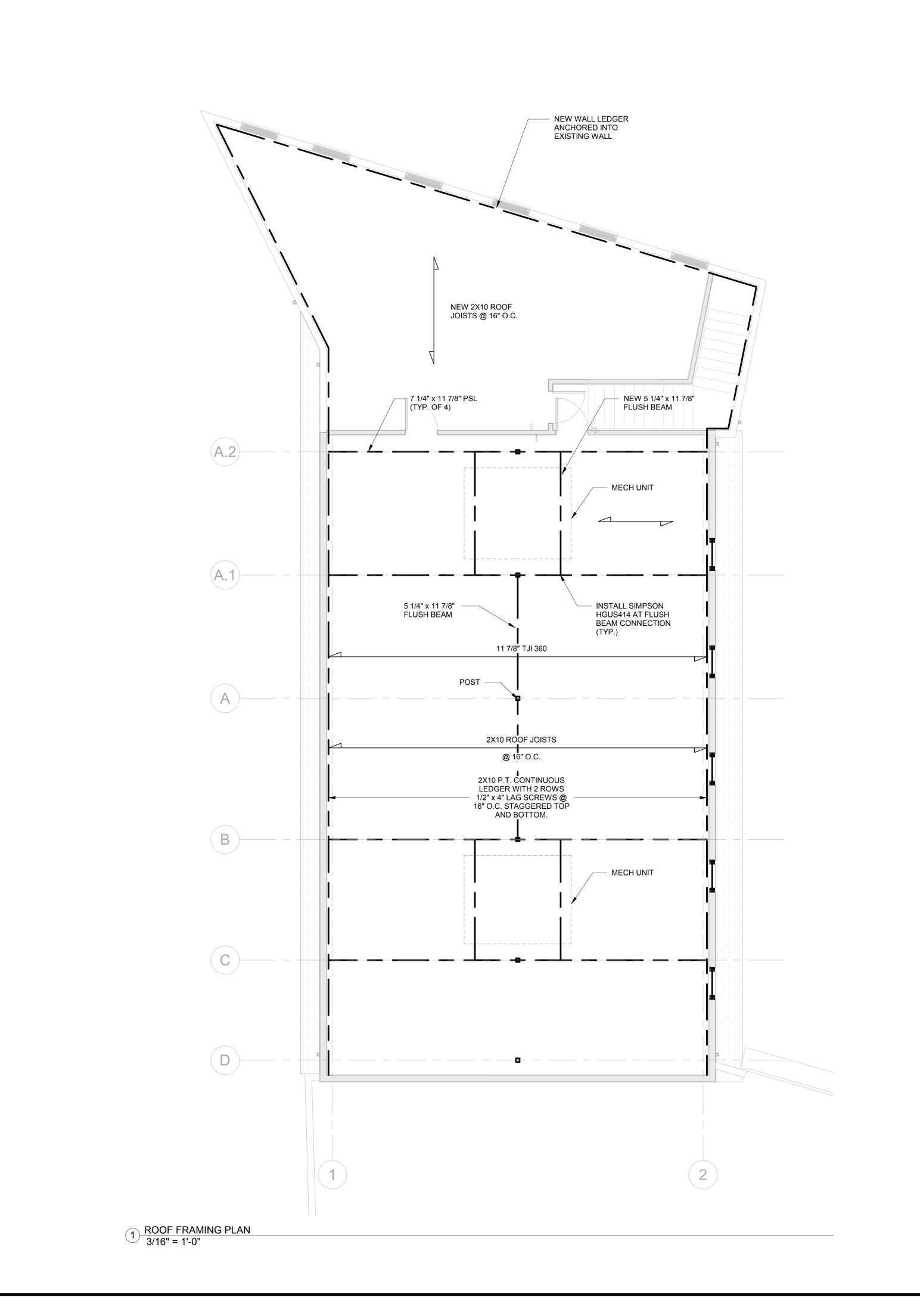
29. VIBRATION ISOLATION SYSTEMS

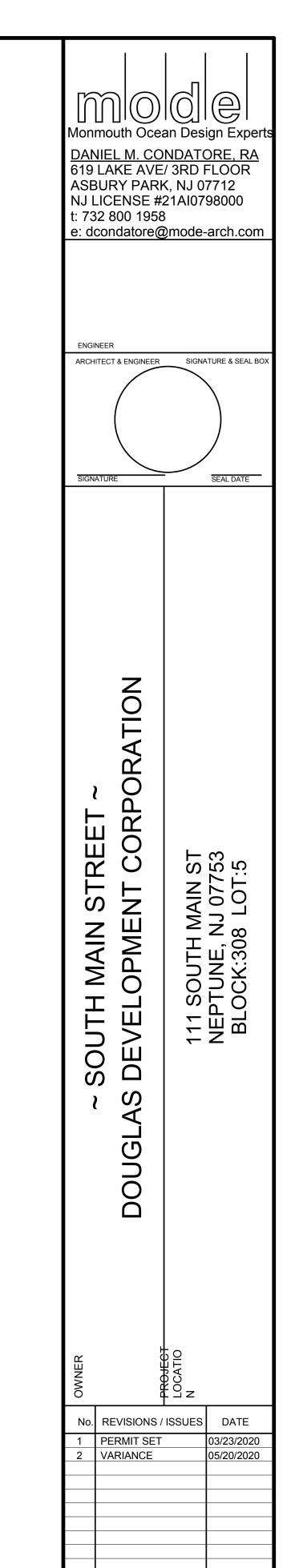
d. OR APPROVED EQUAL

REQUIREMENTS. g. FURNISH DETAILED COMPOSITE WIRING DIAGRAMS FOR THOSE INSTALLING THE ELECTRICAL WORK. AND FURNISH SUCH OTHER INFORMATION NECESSARY TO ASSURE THE PROPER CONNECTION AND GROUNDING REQUIREMENTS. OPERATION AND CONTROL OF MOTORIZED EQUIPMENT, INCLUDING INTERLOCKS, AUTOMATIC OR SAFETY CONTROLS AND AUXILIARY CIRCUITS

h. PROVIDE LAMACOID NAMEPLATE ATTACHED TO EACH STARTER IDENTIFYING THE SYSTEM IT SERVES.







DMC

FRAMING PLAN

S100

CHECKED BY:
DMC