

**THE STATE OF CONNECTICUT
DEPARTMENT OF HOUSING (DOH)**

**COMMUNITY DEVELOPMENT BLOCK GRANT-DISASTER RECOVERY PROGRAM
(CDBG-DR)**

OWNER-OCCUPIED REHABILITATION AND REBUILDING PROGRAM (OORR)

STORM SANDY RELIEF

**GOVERNOR
DANNEL P. MALLOY**

**COMMISSIONER OF HOUSING
EVONNE M. KLEIN**

**APPLICATION NO. 1405
9 DERBY AVE
MILFORD, CT 06460
APRIL 2016**



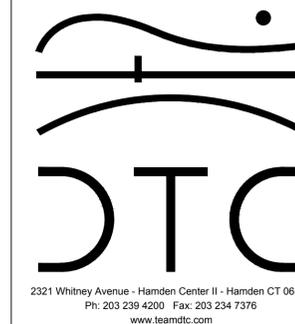
PROJECT LOCATION MAP
NTS

DRAWING INDEX

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NOTES:

REVISIONS



OORR
APPLICATION NO. 1405
MACIAG RESIDENCE
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COVER SHEET

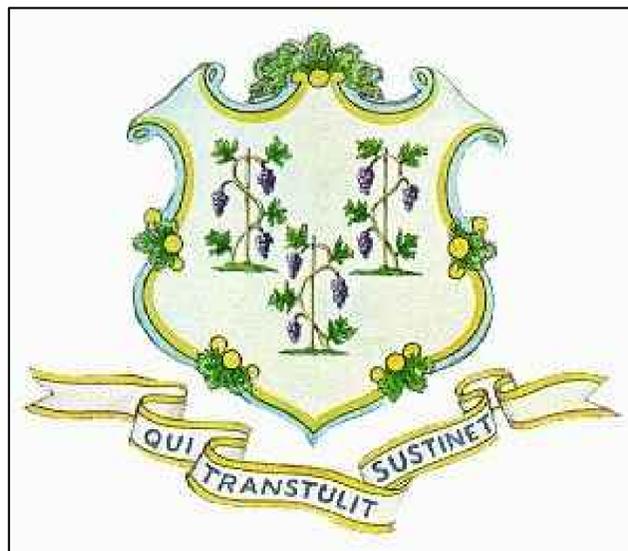
DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

SCALE:	DRAWN BY:
DATE: AUGUST 2015	CHECKED BY:

SHEET:

G-100



CONNECTICUT DEPARTMENT OF HOUSING

STANDARD	REQUIRED	EXISTING	PROPOSED
LOT AREA (S.F.) (MINIMUM)	5,000	2,974	EXIST. TO REMAIN
LOT WIDTH (MINIMUM)	50'	40.42'	EXIST. TO REMAIN
LOT DEPTH (MINIMUM)	70'	73.45'	EXIST. TO REMAIN
HEIGHT (MAXIMUM)	35'	30.22'	EXIST. TO REMAIN
STORIES (MAXIMUM)	3	3	EXIST. TO REMAIN
SETBACK FROM STREET LINE	10'	9.67'	EXIST. TO REMAIN
SETBACK FROM REAR LINE	20'	17.00'	EXIST. TO REMAIN
SETBACK FROM SIDE LINE ONE SIDE	10'	6.98'	EXIST. TO REMAIN
	5'	6.10'	EXIST. TO REMAIN
BUILDING AREA AS % LOT	45%	22.9%	EXIST. TO REMAIN
LOT COVERAGE (MAXIMUM)	65%	43.8%	43.5%

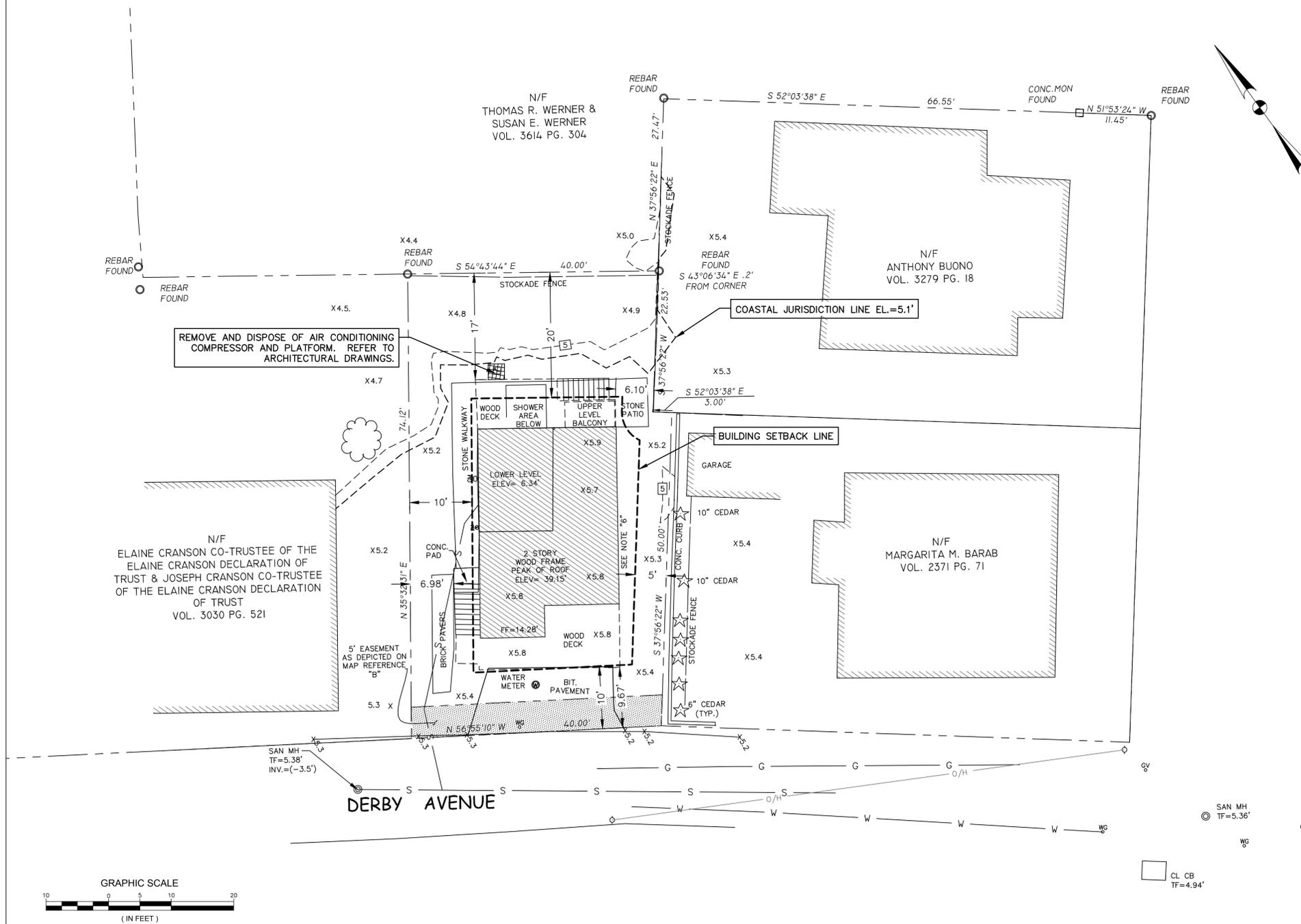
AVERAGE GRADE AT BUILDING =
 $(5.70' + 5.68' + 5.23' + 5.25' + 5.11' + 5.37' + 5.31' + 5.44' + 5.31' + 5.40' + 5.42') / 11 = 5.38'$
 EXISTING ELEVATION OF BUILDING ROOF AT MID-POINT = 35.60'
 EXISTING BUILDING HEIGHT = 35.60' - 5.38' = 30.22'

NOTES

1. ALL DISTURBED AREAS NOT TO BE OTHERWISE PAVED OR COVERED SHALL BE LOAM & SEEDED.
2. CALL BEFORE YOU DIG - THE CONTRACTOR IS HEREBY REMINDED THAT THE CONNECTICUT GENERAL STATUTES REQUIRE NOTICE TO UTILITY COMPANIES PENDING EXCAVATION AT OR NEAR PUBLIC UTILITIES. THE CONTRACTOR SHALL CALL 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE CALL BEFORE YOU DIG PROJECT REFERENCE NUMBERS SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
3. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE STATE OF CONNECTICUT 2002 GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AS AMENDED THROUGH BID DATE OF THIS PROJECT
4. PROTECT EXISTING VEGETATION ON PROPERTY NOT WITHIN CONSTRUCTION AREA. COORDINATE WITH HOMEOWNER.
5. CONTRACTOR SHALL NOT STORE EXCESS SOIL WITHIN PROPERTY LIMITS.
6. NO WORK OR STORING OF MATERIALS ALLOWED WITHIN COASTAL JURISDICTION AREA.

LEGEND

- Street Line
- Property Line
- Building Setback Line
- Silt Fence
- Chain Link Fence
- Wooden Rail Fence
- Item to be Demolished
- Proposed Spot Elevation 6.10
- Test Boring Location
- Underground Piping (San., Stm.)
- U/G Gas Line
- U/G Elec. Line
- Water Line
- U/G Tele. Line
- Chain Link Fence
- Tree Line
- Stone Wall
- Iron Pin (Found)
- Monument (Found)
- Rebar To Be Set
- Sign
- Manhole
- "C" Catch Basin
- "C-L" Catch Basin
- Utility Pole
- Mail Box
- Light Pole
- Metal Post
- Guy Anchor
- Water Gate
- Gas Valve
- Gas Meter
- Shrub/Bush
- Deciduous Trees
- Evergreen Trees



NOTES:

REVISIONS

2321 Whitney Avenue - Hamden Center II - Hamden CT 06518
 Ph: 203 239 4200 Fax: 203 234 7376
 www.teamdte.com

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 MILFORD, CT

SITE PLAN

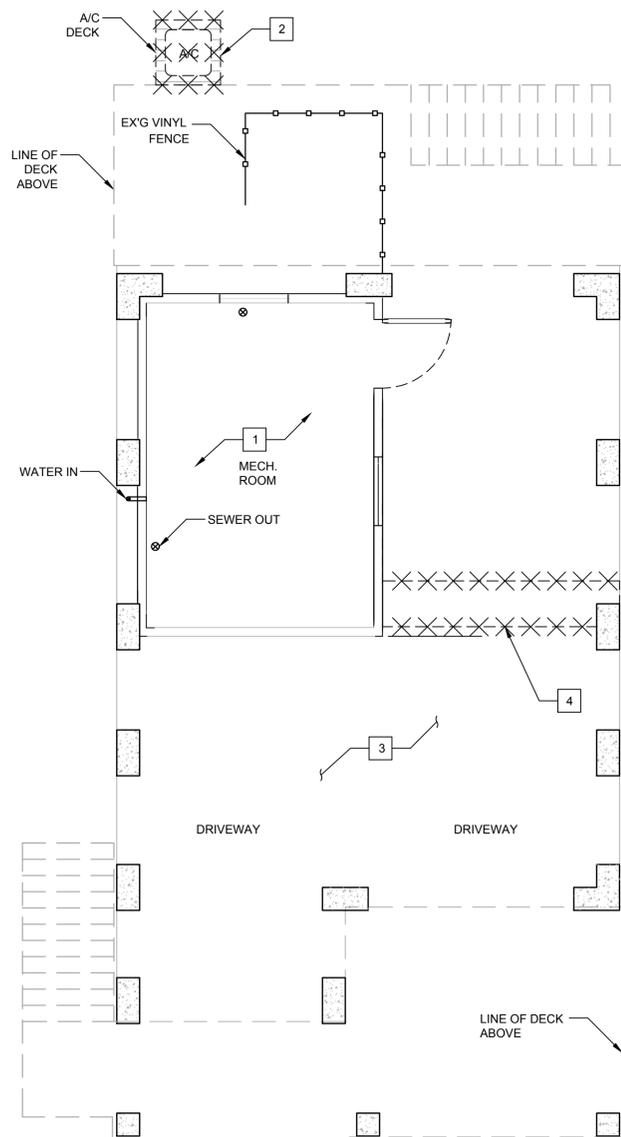
DTC PROJECT NUMBER: 13-449-014
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 SCALE: AS NOTED DRAWN BY: EPZ
 DATE: 04/22/2016 CHECKED BY: JAB

SHEET:
C-100

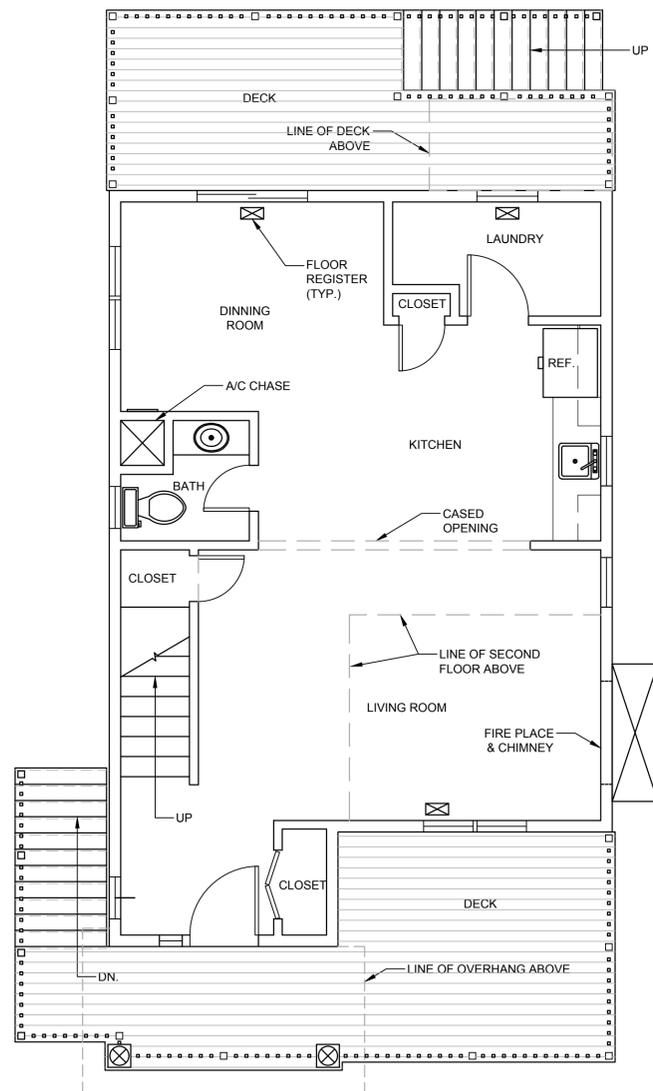
SURVEY INFORMATION IS BASED ON
 A-2 SURVEY MAP PREPARED BY:
 MARTIN SURVEYING ASSOCIATES, LLC
 DATED: 4/4/2016
 SEALED BY: DEAN MARTIN L.S. 70147

KEY NOTES

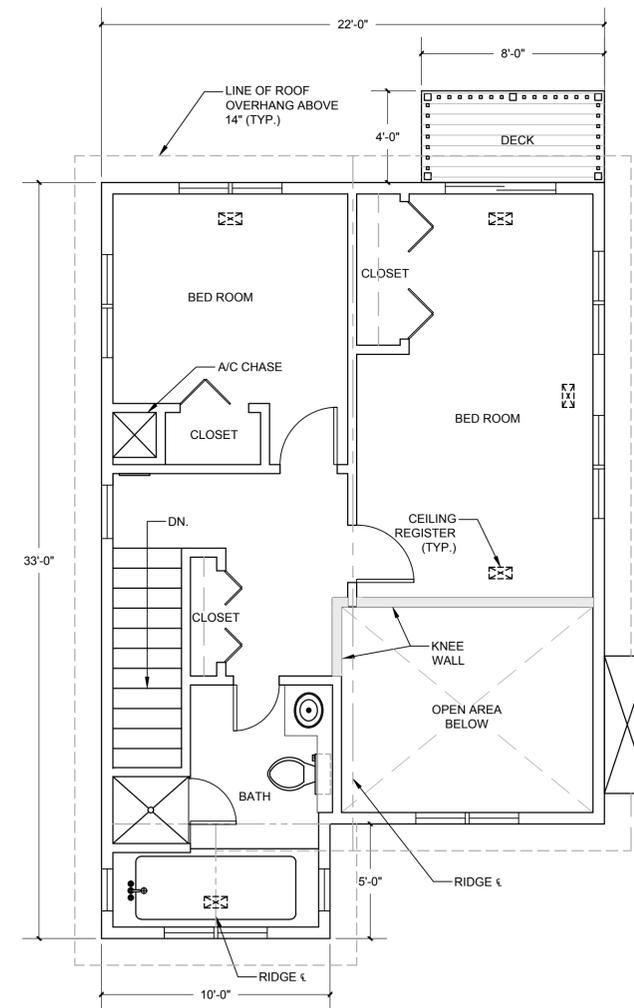
1. DEMOLISH EXISTING MECHANICAL DUCT WORK, AND PIPING. COORDINATE WITH MECHANICAL, AND ELECTRICAL PLANS FOR SCOPE OF WORK.
2. DEMOLISH EXISTING AIR CONDENSER, AND ITS PLATFORM.
3. DEMOLISH ALL GYPSUM BOARD, & INSULATION FROM UNDERSIDE OF HOUSE.
4. DEMOLISH EXISTING MECHANICAL CHASE, AND DUCT WORK.



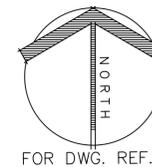
1 GROUND FLOOR
SCALE: 1/4" = 1'-0"



2 FIRST FLOOR
SCALE: 1/4" = 1'-0"



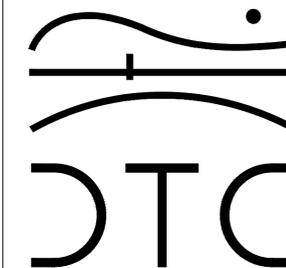
3 SECOND FLOOR
SCALE: 1/4" = 1'-0"



FOR DWG. REF.

NOTES:

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DEMOLITION
FLOOR PLANS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

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

DRAWN BY: REM

DATE: FEBRUARY 2016

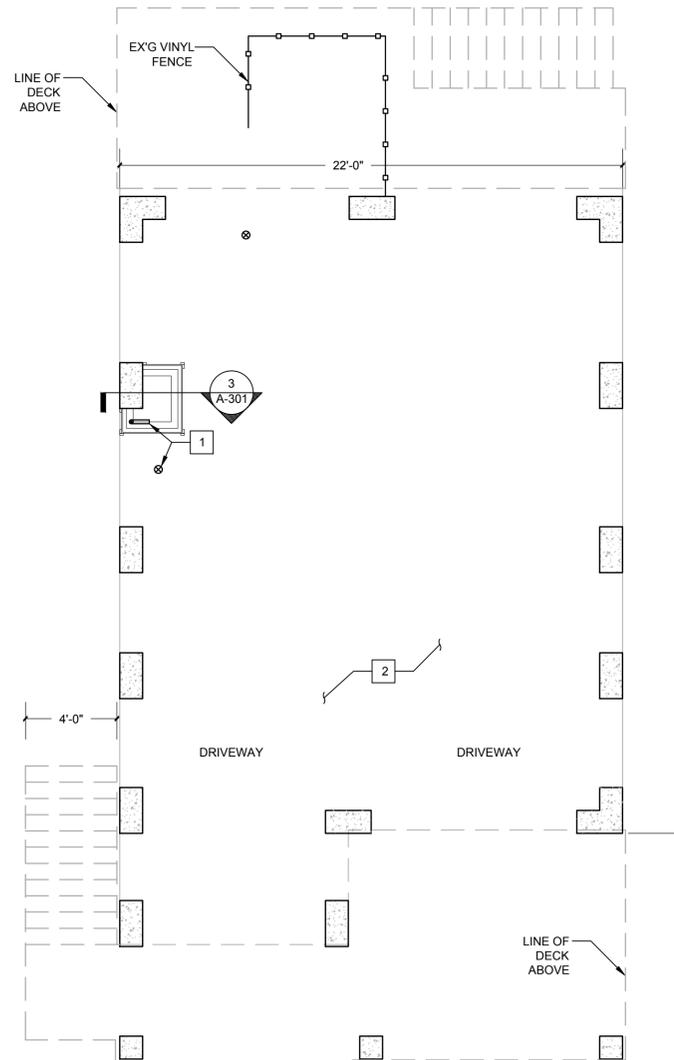
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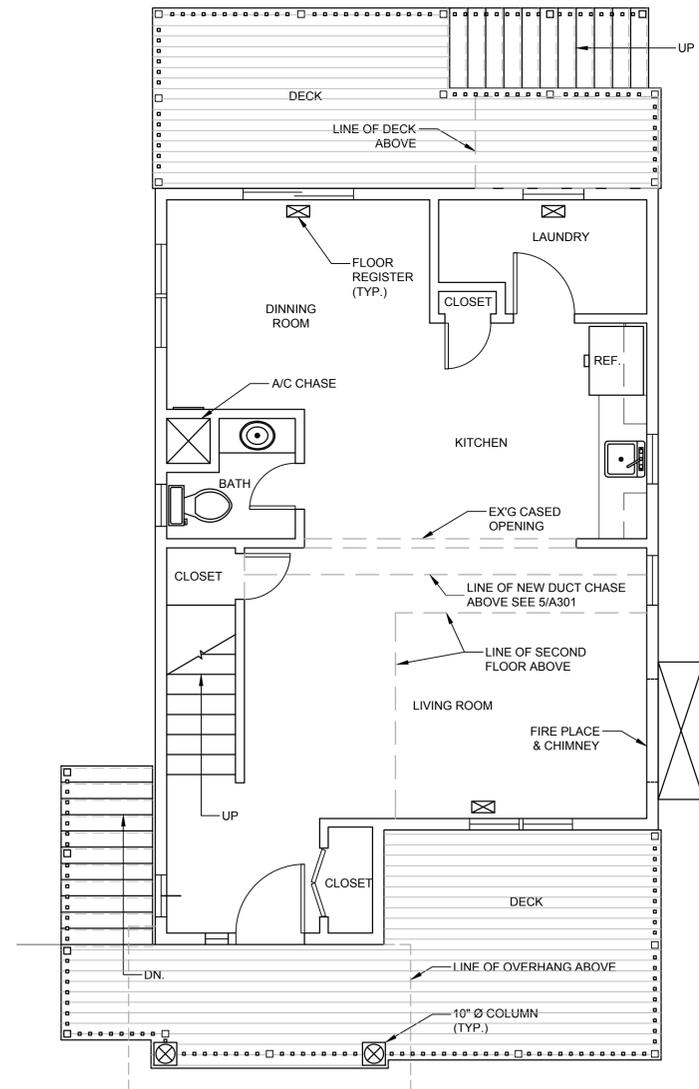
D-101

KEY NOTES

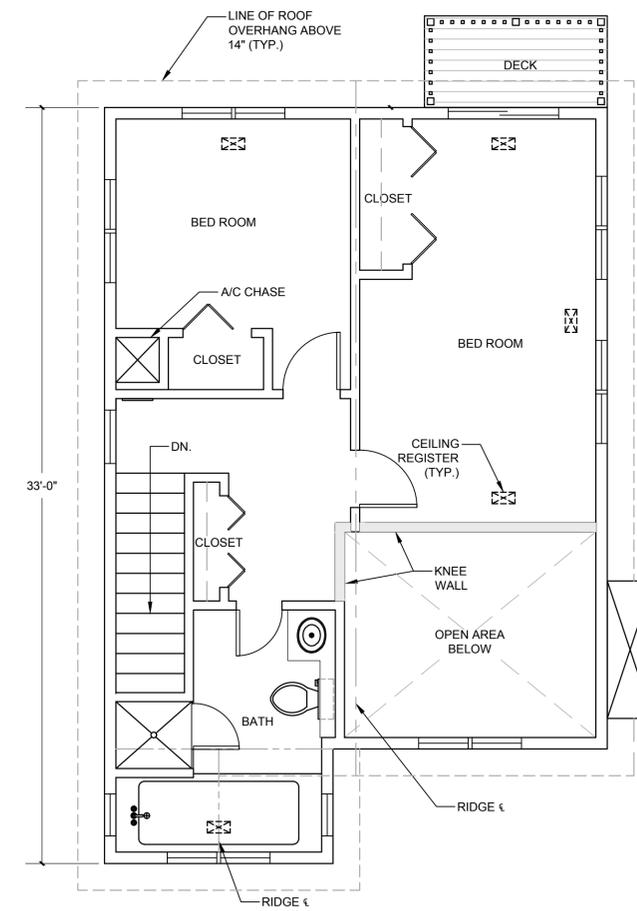
1. PROVIDE ENCLOSED INSULATED PIPE CHASE TO PREVENT FREEZING. COORDINATE WITH PLUMBING PLANS.
2. PROVIDE NEW FOAM-IN-PLACE INSULATION, & GYPSUM WALLBOARD TO UNDERSIDE OF HOUSE.



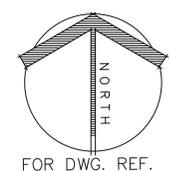
1 GROUND FLOOR
SCALE: 1/4" = 1'-0"



2 FIRST FLOOR
SCALE: 1/4" = 1'-0"



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



NOTES:

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FLOOR PLANS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

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

DRAWN BY: REM

DATE: FEBRUARY 2016

CHECKED BY: RM

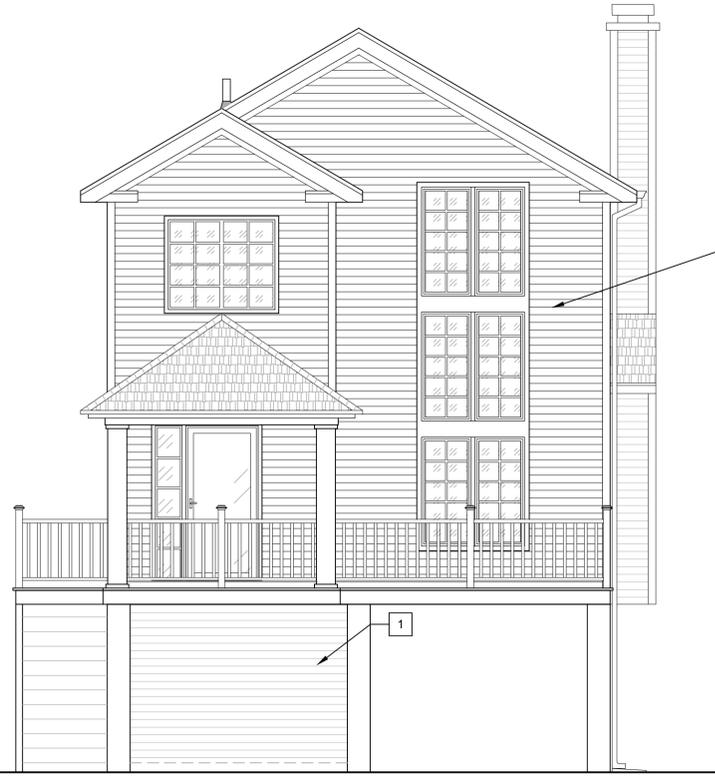
SHEET:

A-101

NOTES:

KEY NOTES

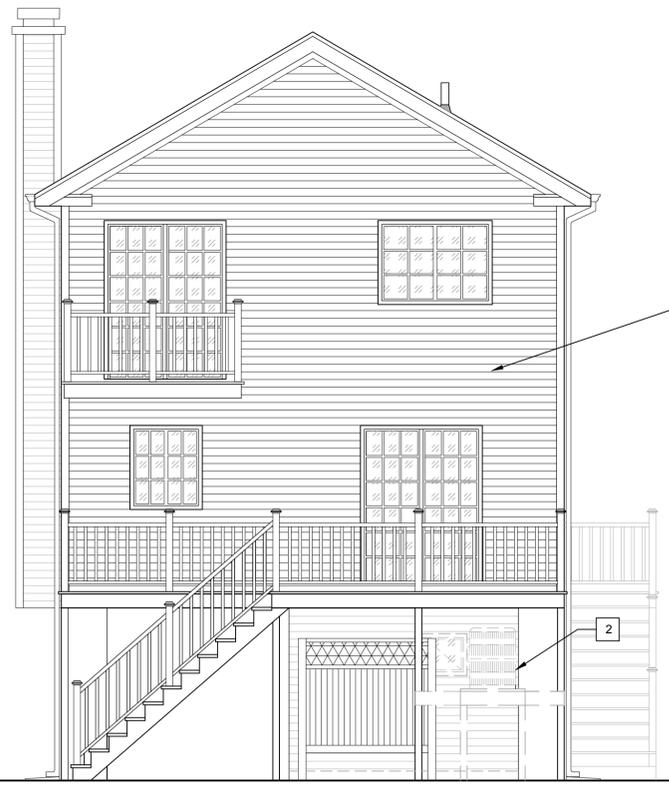
- 1. MECH. ROOM TO BE RETAINED. REPLACE DAMAGED SISING AND DOOR.
- 2. EXISTING A/C AND PLATFORM TO BE DEMOLISHED.
- 3. REPLACE PATCH OR REPAIR ANY DAMAGED OR DISPLACED SIDING FROM STORM DAMAGE, TYP.



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



2 WEST ELEVATION
SCALE: 1/4" = 1'-0"

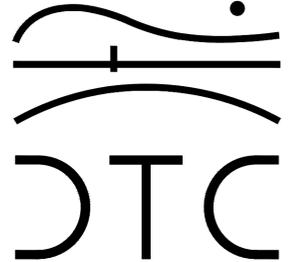


3 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



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

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ELEVATIONS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

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

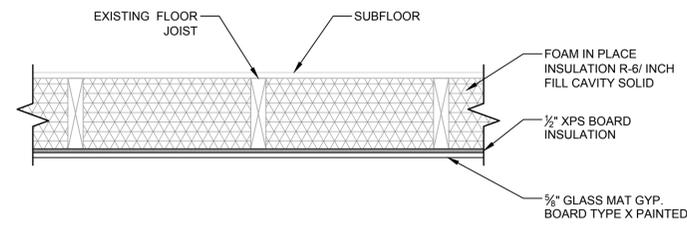
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DATE: FEBRUARY 2016

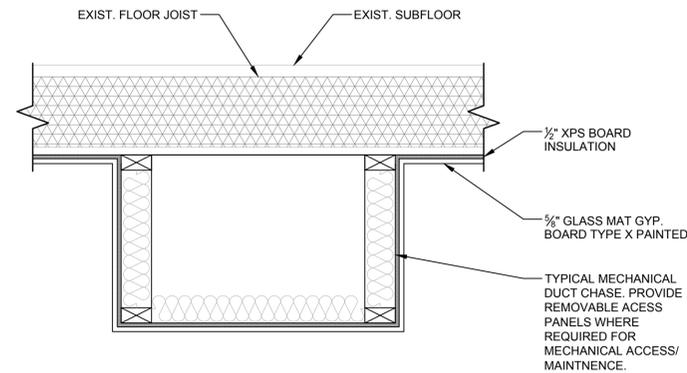
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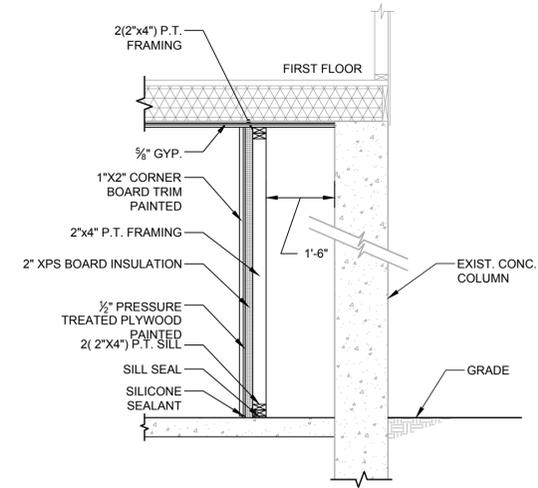
A-201



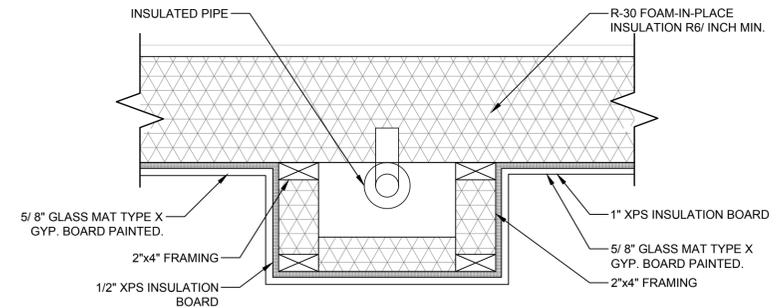
1 TYPICAL FLOOR SECTION
SCALE: 1" = 1'-0"



2 TYPICAL DUCT SOFFIT
SCALE: 1" = 1'-0"



3 WALL SECTION AT VERTICAL CHASE
SCALE: 1/2" = 1'-0"

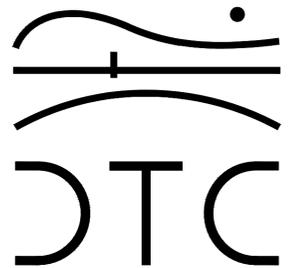


4 TYPICAL HORIZONTAL PIPE CHASE
SCALE: 1-1/2" = 1'-0"

5 INTERIOR DUCT CHASE
SCALE: 1-1/2" = 1'-0"

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DETAILS
&
SECTIONS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

SCALE: VARIES DRAWN BY: REM

DATE: FEBRUARY 2016 CHECKED BY: RM

SHEET:

A-301

PLUMBING GENERAL NOTES

- THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL TRADES BEFORE COMMENCING WORK.
- THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS ETC. AS NECESSARY TO INSTALL PLUMBING SYSTEM, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE.
- IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY THE BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. THE ENTIRE PLUMBING SYSTEM SHALL BE FULLY OPERATIONAL AND READY FOR BENEFICIAL USE BEFORE THE JOB IS CONSIDERED COMPLETE.
- REFER TO LATEST ARCHITECTURAL PLANS FOR ELEVATIONS, SECTIONS, DETAILS, MOUNTING HEIGHTS, LOCATION OF PLUMBING FIXTURES.
- DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS IN THE FIELD AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY & ALL DISCREPANCIES.
- IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY PIPE, FITTING, RISE/DROP OR DETAIL. SYSTEM & COMPONENTS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS WITH FACILITIES AND SERVICES TO MEET REQUIREMENTS INDICATED AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
- EQUIPMENT AND COMPONENTS HAVING EQUAL PERFORMANCE CHARACTERISTICS BY OTHER MANUFACTURERS MAY BE CONSIDERED, PROVIDED DEVIATIONS IN DIMENSIONS, OPERATION AND OTHER CHARACTERISTICS DO NOT CHANGE DESIGN CONCEPT OR INTENDED PERFORMANCE AS JUDGED BY THE ENGINEER. BURDEN OF PROOF OF EQUALITY OF PRODUCTS IS ON THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR THE PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR PROPERLY PROTECTING OWNER'S PROPERTY AND EQUIPMENT FROM INJURY, AND DAMAGE TO SAME SHALL BE REPLACED BY CONTRACTOR.
- CONTRACTOR IS TO CLEAN JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
- ALL WORK TO BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER, CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE CONSTRUCTION AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN WORK AREA.
- CONTRACTOR IS RESPONSIBLE TO PROPERLY SECURE AREAS OF CONSTRUCTION AT THE END OF EACH WORKING DAY.
- EQUIPMENT AND PIPING TO BE INSTALLED IN ACCORDANCE WITH SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL OTHER TRADES.
- ALL EQUIPMENT SUPPORTS AND PIPE HANGERS TO BE CONNECTED FROM THE BUILDING STRUCTURE.
- PROVIDE ACCESS PANELS/DOORS FOR ALL CONCEALED PLUMBING ITEMS REQUIRING ACCESS, COORDINATE WITH DIVISION 8.
- PROVIDE SHUTOFF VALVES AT ALL BRANCH PIPING TAKEOFFS.
- ALL BRANCH WATER PIPES TO HAVE STOP VALVES AT EACH PLUMBING FIXTURE.
- INSULATE COLD WATER, HOT WATER AND RECIRCULATION PIPING, CONDENSATE DRAIN, STORM PIPING AND ROOF DRAIN BODIES.
- EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, SANITARY, WASTE, AND VENT SYSTEMS. REFER TO THE PLUMBING SCHEDULES ON MEP DRAWINGS FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE.
- WHERE AN INACCESSIBLE CEILING IS INSTALLED (GYP BOARD OR EQUIVALENT), THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ACCESS PANELS FOR ALL VALVES, CLEANOUTS, ETC., REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES AND OTHER APPURTENANCES.
- NO PIPING SHALL BE INSTALLED WITHIN STAIRS, STAIR WALLS, OR OVER ELECTRICAL PANELS/EQUIPMENT. ONLY DEDICATED PLUMBING PIPING WILL BE ALLOWED WITHIN EACH OF THE SPACES INDICATED ABOVE. COORDINATE THE LOCATION OF ALL PIPING WITH ALL OTHER TRADES, AND ADJUST AS NECESSARY.
- ALL PIPING IS TO BE RUN CONCEALED IN CEILINGS OR WALLS. PIPING IS TO BE EXPOSED ONLY WHERE NOTED ON DRAWINGS. IF CONTRACTOR CANNOT RUN PIPING CONCEALED, NOTIFY ENGINEER IMMEDIATELY TO RESOLVE CONFLICT.
- PIPE ALL CONDENSATE DRAINS FROM MECHANICAL EQUIPMENT COOLING COILS, BY GRAVITY (INTERIOR AIR HANDLING UNITS, FAN COIL UNITS, ETC.) THROUGH AN AIR GAP. EACH CONDENSATE DRAIN SHALL BE TRAPPED AT THE EQUIPMENT DRAIN OUTLET, REFER TO TRAP DETAILS ON DRAWINGS. COORDINATE EXACT LOCATION WITH THE HVAC CONTRACTOR AND ADJUST AS NECESSARY.
- COORDINATE EXACT LOCATION OF ALL UNDERGROUND UTILITIES (WATER, GAS, SANITARY, ETC.) EXITING OR ENTERING THE BUILDING WITH CIVIL DRAWINGS.
- DOMESTIC WATER DROPS OR RISERS INSTALLED IN EXTERIOR WALLS, SHALL BE INSTALLED ON THE WARM SIDE OF THE BUILDING INSULATION, AND THE LOCATION SHALL BE MADE INFILTRATION FREE.
- COORDINATE ALL PLUMBING EQUIPMENT REQUIRING POWER, FOR EXACT LOCATION AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- ALL INDIRECT WASTE DRAINS SHALL BE PIPED TO FLOOR DRAINS, FUNNELS OR FIXED AIR GAP FITTINGS, THROUGH AIR GAP OR TO A SINK DRAIN TAILPIECE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELBOWS, TEES, DROPS, AND MISCELLANEOUS PIPING DUE TO ELEVATION CHANGES, OBSTRUCTIONS, COORDINATION WITH OTHER TRADES, ETC. TO INSTALL A COMPLETE, FUNCTIONING, PLUMBING SYSTEM.

LEGEND

SYMBOL	DESCRIPTION
	SOIL OR WASTE ABOVE FLOOR OR GRADE
	SOIL OR WASTE BELOW FLOOR OR GRADE
	VENT PIPING
	COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	GAS PIPING
	FUEL OIL PIPING
	PIPING DIRECTION OF FLOW
	HT - HEAT TRACED & INSULATED PIPE
	PIPING RISER UP
	PIPING RISER DOWN
	DRAIN
	TRAP
	BALL VALVE
	CHECK VALVE
	UNION
	CAP ON END OF PIPE
	GAS COCK
	GAS PRESSURE REGULATOR
	GAS SOLENOID VALVE
	POINT OF CONNECTION
	POINT OF DISCONNECT
	THERMOSTATIC MIXING VALVE
	PRESSURE REDUCING VALVE
	CLEANOUT/ WALL CLEANOUT
	HOSE BIBB

HVAC GENERAL NOTES

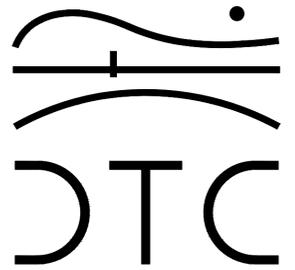
- NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
- CONTRACTOR SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE NATURE AND SCOPE OF WORK REQUIRED BY CONTRACT DOCUMENTS PRIOR TO BIDDING PROJECT.
- PROVIDE ALL REQUIRED MATERIALS, LABOR, EQUIPMENT, AND SERVICES NECESSARY FOR THE INSTALLATION OF THE WORK AS SHOWN ON THESE DRAWINGS OR SPECIFIED BY THE BASE BUILDING DRAWING AND SPECIFICATIONS.
- REFER TO AND CAREFULLY CHECK ARCHITECTURAL, ELECTRICAL, AND PLUMBING DRAWINGS AND DETAILS, NOTES, LOCATIONS WHERE WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES ARE FURRED, LOCATIONS OF SHAFTS, SOFFITS, AND CONFLICTS WITH WORK OF OTHER TRADES, AND ARRANGE WORK ACCORDINGLY. FURNISH ALL OFFSETS, DAMPERS, CONNECTORS, ETC., REQUIRED TO MEET SUCH CONDITIONS.
- DUE TO SCALE OF DRAWINGS, ALL REQUIRED OFFSETS, DAMPERS, ETC., MAY NOT BE INDICATED.
- COORDINATE DIFFUSER AND REGISTER LOCATIONS AND DUCT WITH LIGHTING FIXTURES AND STRUCTURE. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DETAILS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING CODES.
- THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL, AND CONNECT COMPLETELY".
- TURN OVER TO THE OWNER ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.
- WHERE THE CONTRACTOR PROPOSES TO USE AN ITEM OF EQUIPMENT OTHER THAN THAT SPECIFIED OR DETAILED ON THE DRAWINGS WHICH REQUIRES ANY REDESIGN OF THE STRUCTURE, PARTITIONS, FOUNDATIONS, PIPING, WIRING OR ANY OTHER PART OF THE MECHANICAL, ELECTRICAL OR ARCHITECTURAL LAYOUT, ALL SUCH REDESIGN AND ALL NEW DRAWINGS AND DETAILING REQUIRED THEREFORE, SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE AND ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE. OWNER RESERVES THE RIGHT TO HAVE THE ARCHITECT OR ENGINEER OF HIS CHOICE PREPARE ANY REDESIGN WORK.
- CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT WITH DIVISION 26.
- ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
- BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCESSING THE WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY AND CHECK NEEDED SPACE FOR PLACEMENT AND CLEARANCES.
- BEFORE CUTTING AND DRILLING INTO BUILDING ELEMENTS, INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
- CONTRACTOR RESPONSIBLE FOR REPAIR AND PAYMENT FOR ALL UTILITIES DAMAGE DURING CONSTRUCTION.
- CONTRACTOR TO CONFIRM DUCTWORK LOCATIONS, ELEVATIONS AND SIZES BEFORE ANY WORK IS STARTED. IF ANY DISCREPANCIES ARE FOUND, NOTIFY ENGINEER BEFORE PROCEEDING WITH WORK. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF PROVIDED EQUIPMENT.
- ALL SHOP DRAWINGS OF INDIVIDUAL COMPONENTS ARE TO BE SUBMITTED AS A COMPLETE PACKAGE.
- HVAC DRAWINGS DO NOT NECESSARY SHOW ALL CONDITIONS OF BUILDING. CONTRACTOR TO USE ALL DRAWINGS AND SPECIFICATIONS OF CONTRACT DOCUMENTS AND INSPECTION OF FIELD CONDITIONS FOR DIVISION 23.
- HVAC PLANS, DETAILS AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE SYSTEM. THESE ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, HANGERS, ACCESS DOORS, ETC. WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE SYSTEM.
- ALL WORK IN INTERIOR FINISHED SPACES EXCEPT INDICATED IS TO BE CONCEALED ABOVE CEILING. PROVIDE ALL NECESSARY CUTTING, PATCHING, REPAINTING AND/OR REPLACEMENT OF FINISHES AS REQUIRED TO PERFORM COORDINATE WITH OTHER DIVISIONS.
- IF MANUFACTURER OF EQUIPMENT REQUIRES LARGER CAPACITY CIRCUITRY AND/OR EQUIPMENT THE CONTRACTOR SHALL PROVIDE SUCH CAPACITY AND/OR EQUIPMENT UNDER THIS CONTRACT AT NO COST TO THE OWNER.
- SUPPORT DUCTWORK ABOVE CEILING FROM CONSTRUCTION ABOVE AS CLOSE AS POSSIBLE TO BOTTOM OF SLABS, BEAMS, MAINTAINING HEADROOM AT ALL TIMES.
- DO NOT SCALE DRAWINGS. CHECK EXISTING SPACE CONDITIONS AT THE JOB SITE.
- GENERAL CONTRACTOR PROVIDE ALL CONTROL DEVICES, EQUIPMENT, ACCESSORIES, VFD DRIVES, OTHER APPARATUS, CONTROL VALVES AND DAMPERS, ACTUATORS, SENSORS, ETC. AND ALL CONTROL WIRING.
- ALL DUCTWORK SHALL BE HUNG FROM STRUCTURE ABOVE.
- PROVIDE FLEXIBLE CONNECTIONS BETWEEN MECHANICAL EQUIPMENT AND DUCTWORK AND PIPING.
- PROVIDE MINIMUM 3" DUCT LINER ON SUPPLY AND RETURN BRANCH DUCT UNIT CONNECTION (SEE DETAILS).
- PROVIDE VOLUME DAMPERS ON ALL BRANCHES OF DUCTWORK (SUPPLY, RETURN, EXHAUST).
- ALL PENETRATIONS THRU WALLS, ROOF, AND FLOORS TO BE COORDINATED BEFORE SITE WORK EXECUTION WITH STRUCTURAL ENGINEERS.
- THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS TO BE COORDINATED WITH INTERIOR WALL LAYOUT.
- CONTRACTOR SHALL SELECT AND PROVIDE EXPANSION JOINTS OR EXPANSION LOOPS AND ANCHORS AS REQUIRED TO PREVENT TEMPERATURE EXPANSION STRESSES OF HYDRONIC PIPES BASED ON ACTUAL INSTALLATION/CONDITIONS.
- ELECTRICAL CHARACTERISTICS FOR MECHANICAL EQUIPMENT: EQUIPMENT OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICES, CIRCUIT BREAKERS, AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED. IF MINIMUM ENERGY RATINGS OR EFFICIENCIES ARE SPECIFIED, EQUIPMENT SHALL COMPLY WITH REQUIREMENTS.
- SHOP DRAWINGS: DETAIL MAJOR ELEMENTS, COMPONENTS, AND MECHANICAL EQUIPMENT AND MATERIALS IN RELATIONSHIPS WITH OTHER SYSTEMS, INSTALLATIONS, AND BUILDING COMPONENTS. SHOW SPACE REQUIREMENTS FOR INSTALLATION AND ACCESS. INDICATE IF SEQUENCE AND COORDINATION ARE IMPORTANT TO EFFICIENT FLOW OF THE WORK. INCLUDE THE FOLLOWING.
 - PLANNED PIPING LAYOUT, INCLUDING VALVE AND SPECIALTY LOCATIONS AND VALVE-STEM MOVEMENT.
 - CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION.
 - CLEARANCES FOR SERVING AND MAINTAINING EQUIPMENT, ACCESSORIES, AND SPECIALTIES, INCLUDING SPACE FOR DISASSEMBLY REQUIRED BY PERIODIC MAINTENANCE.
 - EQUIPMENT AND ACCESSORY SERVICE CONNECTIONS AND SUPPORT DETAILS.
 - EXTERIOR WALL AND FOUNDATION PENETRATIONS.
 - SIZES AND LOCATION OF REQUIRED CONCRETE PADS AND BASES.
 - FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS, FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS.
 - SCALE: MINIMUM 1/4"=1'-0" FOR FLOOR PLAN, 3/8"=1'-0" FOR MECHANICAL ROOMS.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
CO	CLEANOUT
CTE	CONNECT TO EXISTING
CW	COLD WATER
E	EXISTING TO REMAIN
ER	EXISTING TO BE REMOVED
ERR	EXISTING TO BE RELOCATED
HB	HOSE BIBB
HZ	HERTZ
IN	INCH
IM	ICE MAKER
KS	KITCHEN SINK
G	GAS
GPM	GALLONS PER MINUTE
LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
N	NEW
PH	PHASE
PRV	PRESSURE REDUCING VALVE
SH	SHOWER
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TYP	TYPICAL
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WM	WASHING MACHINE

NOTES:

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OORR
APPLICATION NO. 1405
MACIAG RESIDENCE
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MILFORD, CT

MECHANICAL &
PLUMBING GENERAL
NOTES

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

SCALE: 1/4"=1.0

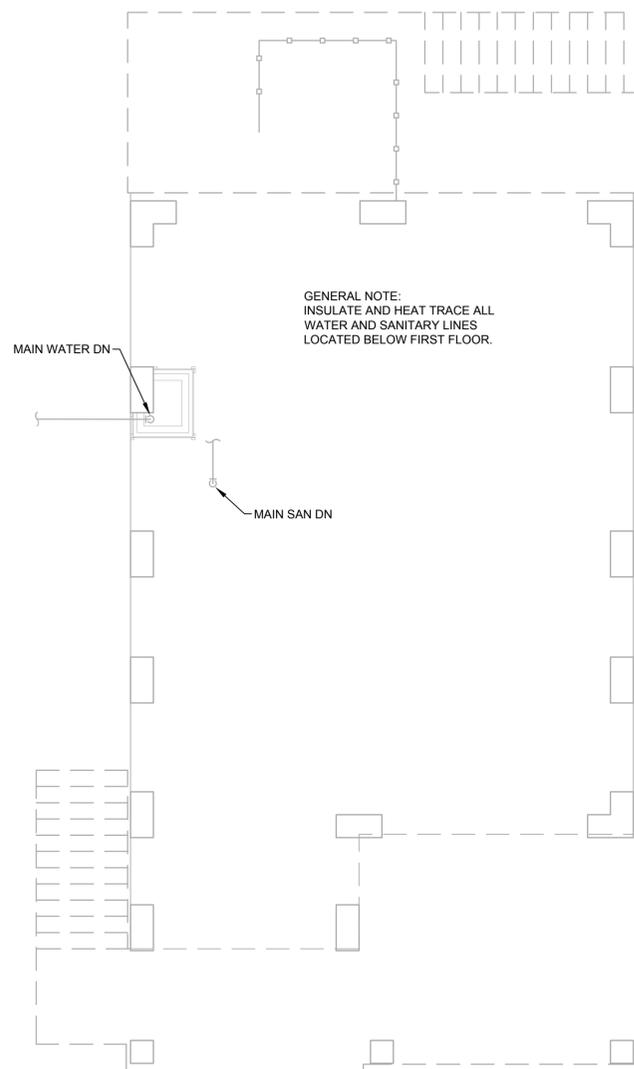
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DATE: 04/22/2016

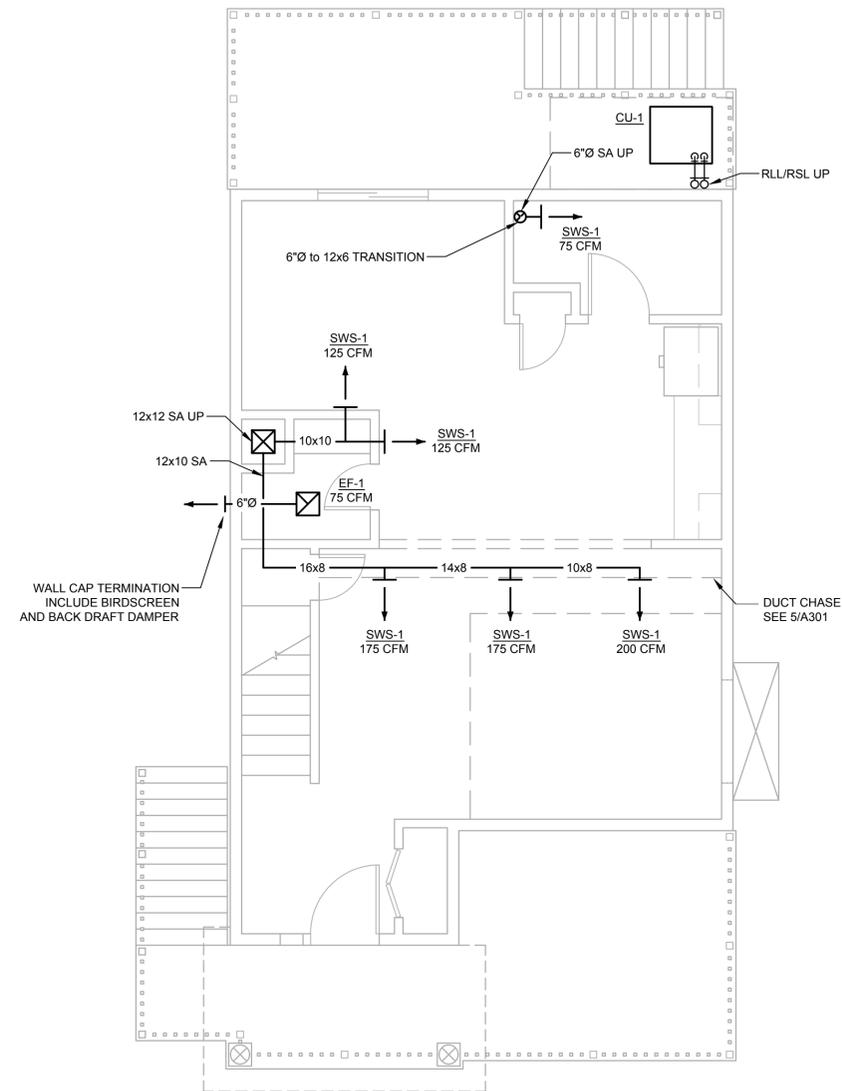
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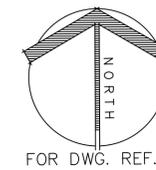
MP-001



1 GROUND FLOOR PLAN
M-100 SCALE: 1/4" = 1'-0"



2 FIRST FLOOR PLAN
M-100 SCALE: 1/4" = 1'-0"



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MECHANICAL
FLOOR PLANS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

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

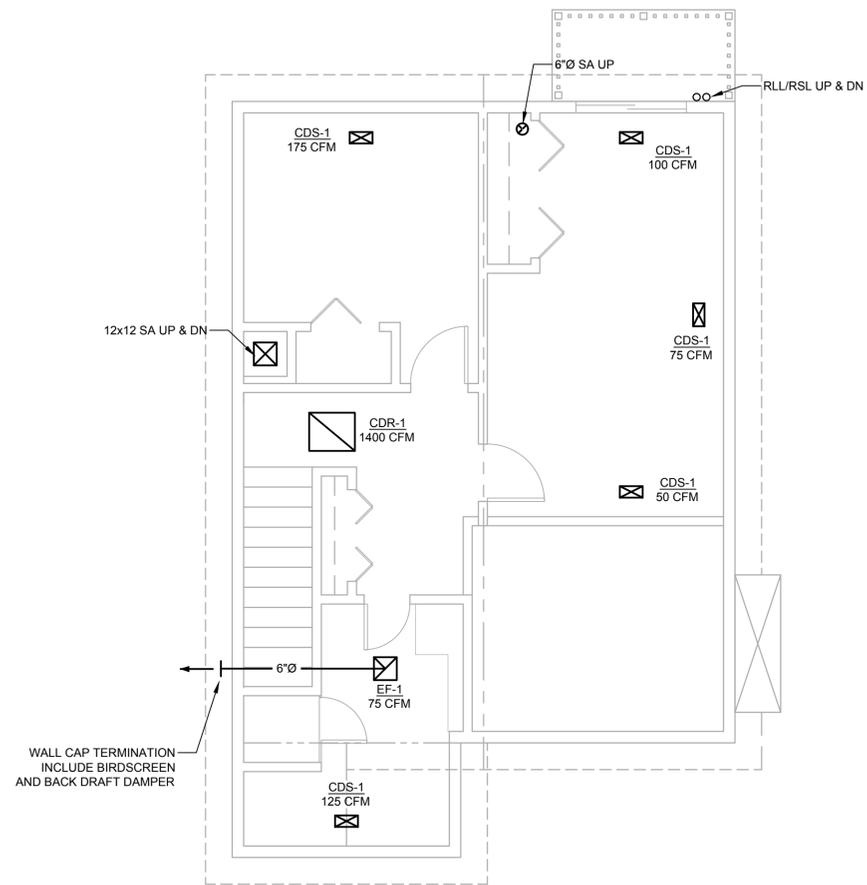
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DATE: 04/22/2016

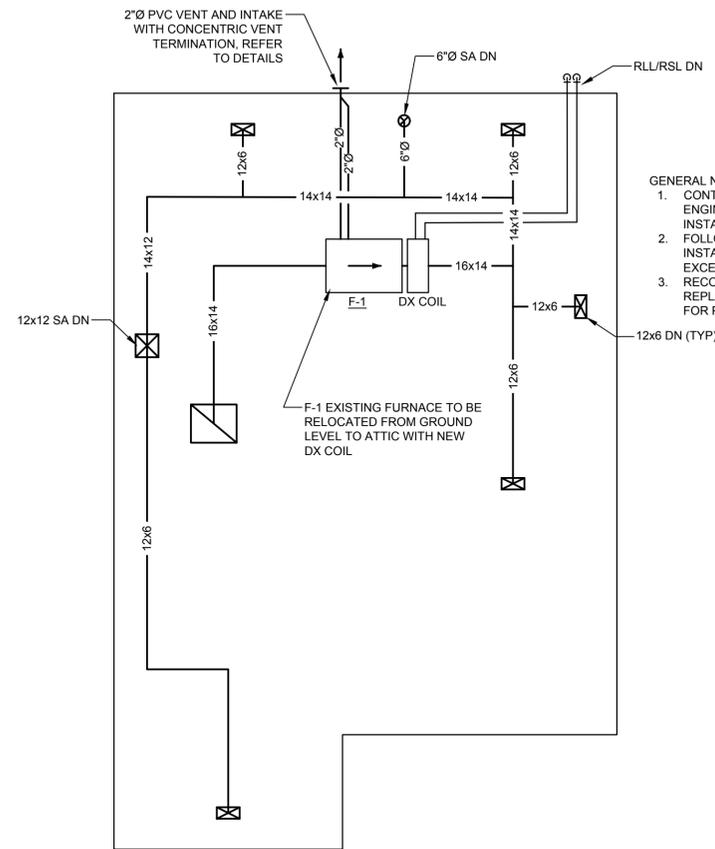
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SHEET:

M-100

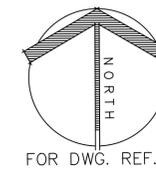


1 SECOND FLOOR PLAN
M-101 SCALE: 1/4" = 1'-0"



2 ATTIC FLOOR PLAN
M-101 SCALE: 1/4" = 1'-0"

- GENERAL NOTE:
1. CONTRACTOR TO CONFIRM F-1 MODEL WITH ENGINEER PRIOR TO PURCHASING OR INSTALLING CU-1 AND DX COIL
 2. FOLLOW MANUFACTURER'S GUIDELINES FOR INSTALLING RLL/RSL LINES AND DO NOT EXCEED RECOMMENDED EQUIVALENT LENGTH
 3. RECONNECT EXISTING THERMOSTAT TO F-1 REPLACE EXISTING THERMOSTAT IF REQUIRED FOR PROPER OPERATION.



NOTES:

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MECHANICAL
FLOOR PLANS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

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

DRAWN BY: RWF

DATE: 04/22/2016

CHECKED BY: JV

SHEET:

M-101

PLUMBING FIXTURE/EQUIPMENT SCHEDULE

SYMBOL	MARK	MFR	MODEL	DESCRIPTION
	HB	WOODFORD	14 PLASTIC HANDLE	CAST BRASS, WALL HYDRANT w/1/2" INLET.
	-	RAYCHEM	8XL1	120V, 1 Ø, 60 HZ, 8W/FT WITH A MAXIMUM LENGTH OF 115 FT, MAXIMUM OPERATING TEMP OF 150F.

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	SP	WATTS	REMARKS
EF-1	BROAN	XB-80L	80	.1" w.c.	6.0	INTERLOCK WITH BATHROOM LIGHT SWITCH, PROVIDE BACKDRAFT DAMPER AND MANUFACTURER'S WALL CAP TERMINATION KIT

NOTES: CONSTANT 20 CFM SWITCH TO MAXIMUM CFM.

DIFFUSER, GRILLE, AND REGISTER SCHEDULE

TYPE	MANUFACTURER	MODEL	NECK SIZE (INCH)	FACE SIZE (INCH)	MAXIMUM AIRFLOW (CFM)	MAX NC	DESCRIPTION	REMARKS
CDS-1	TITUS	301 FL	12X6	12X6	250	20	CEILING SUPPLY GRILLE	NOTE 1
SWS-1	TITUS	301 FL	12X6	12X6	250	20	SIDEWALL SUPPLY GRILLE	NOTE 1
CDR-1	TITUS	350 FL	24X20	24X20	1500	20	CEILING RETURN GRILLE	NOTE 1

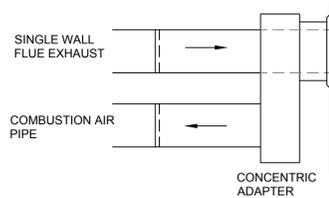
DIFFUSER, GRILLE, AND REGISTER SCHEDULE REMARKS:
NOTE 1. PROVIDE OPPOSED BLADE DAMPER

DIFFUSER, GRILLE, AND REGISTER SCHEDULE GENERAL COMMENTS:
1. DIFFUSER, REGISTER, GRILLE, OPPOSE BLADE DAMPER AND ASSOCIATED FRAME SHALL BE SOLID ALUMINUM OR STEEL CONSTRUCTION.
2. COLOR BY ARCHITECT
3. REFER TO ARCHITECTURAL DRAWINGS FOR WALL/CEILING TYPE. PROVIDE MOUNTING ACCESSORIES AS REQUIRED FOR CEILING APPLICATION
4. APPROXIMATE FACE SIZE NOTED. REFER TO SPECIFIC BORDER / FRAME TYPE FOR ACTUAL FACE SIZE

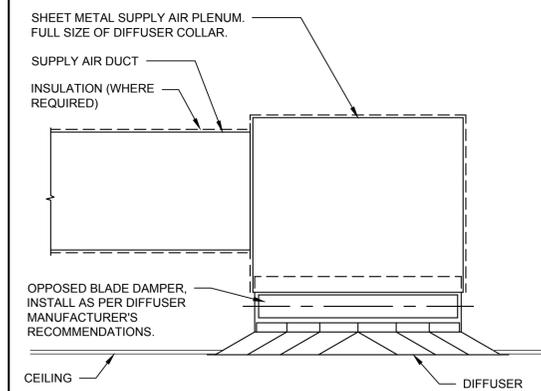
CONDENSING UNIT SCHEDULE

UNIT	MANUFACTURER	CONDENSER MODEL	COIL MODEL	ASSOCIATED UNIT	TONS	REFRIG. TYPE	OUTDOOR AMBIENT	ELECTRICAL		LOCATION	REMARKS
								VOLTAGE/PH	MIN CA		
CU-1	TRANE	4TTR4	4TXF	F-1	3	R-410A	95	208/1	18	DECK	

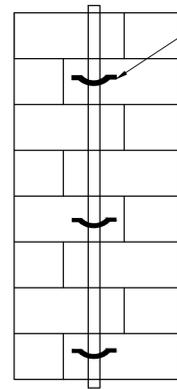
NOTES:
1. DISCONNECTS AND STARTERS BY DIVISION 26.
2. EQUIPMENT SHALL BE ENERGY STAR RATED.



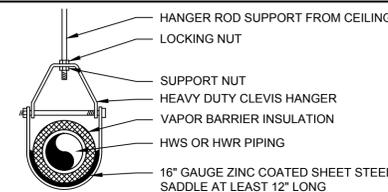
1 FURNACE VENT TERMINATION DETAIL
MP300 NOT TO SCALE



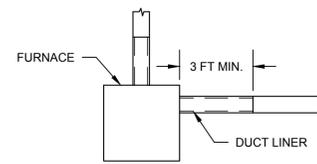
2 CEILING DIFFUSER DETAIL
MP300 NOT TO SCALE



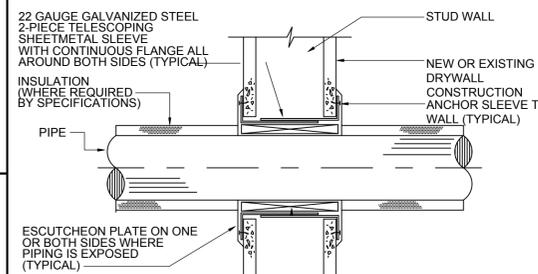
3 FLOOD RESISTANT STRAPPING DETAIL
MP300 NOT TO SCALE



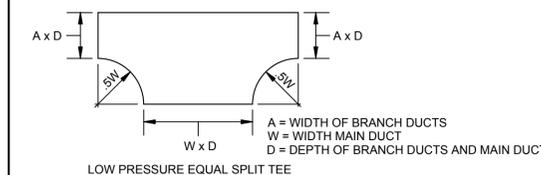
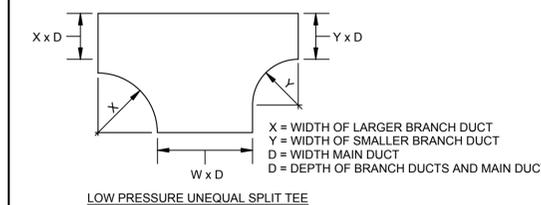
4 INSULATED PIPE HANGER DETAIL
MP300 NOT TO SCALE



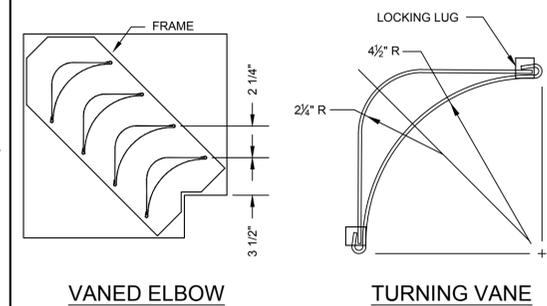
5 DUCT LINER AT FURNACE DETAIL
MP300 NOT TO SCALE



6 WALL/FLOOR PENETRATION DETAIL
MP300 NOT TO SCALE

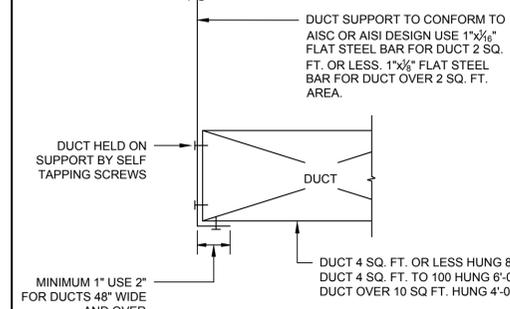


7 DUCT CONSTRUCTION DETAIL
MP300 NOT TO SCALE

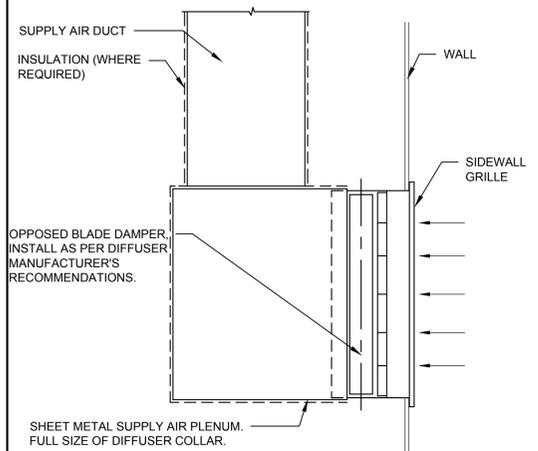


NOTES:
1. LOCKING LUGS INTEGRAL WITH VANE
2. MAXIMUM UNSUPPORTED VANE LENGTH 48"
3. FRAMES BOLTED OR RIVETED TO ELBOW
4. VANES AND FRAMES, SAME GAUGE AS ELBOW
5. PROVIDE TURNING VANES FOR SQUARE AND RECTANGULAR ELBOWS.

8 DOUBLE THICKNESS TURNING VANES FOR SQUARE AND RECTANGULAR ELBOW
MP300 NOT TO SCALE



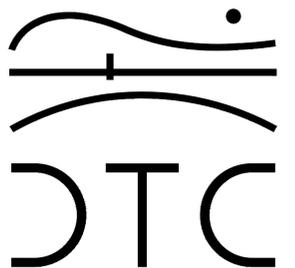
9 DUCT SUPPORT DETAIL
MP300 NOT TO SCALE



10 SIDEWALL GRILLE DETAIL
MP300 NOT TO SCALE

NOTES:

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OORR
APPLICATION NO. 1405
MACIAG RESIDENCE
9 DERBY AVENUE
MILFORD, CT

MECHANICAL &
PLUMBING
SCHEDULES & DETAILS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

SCALE: 1/4"=1.0

DRAWN BY: RWF

DATE: MARCH 2015

CHECKED BY: JV

SHEET:

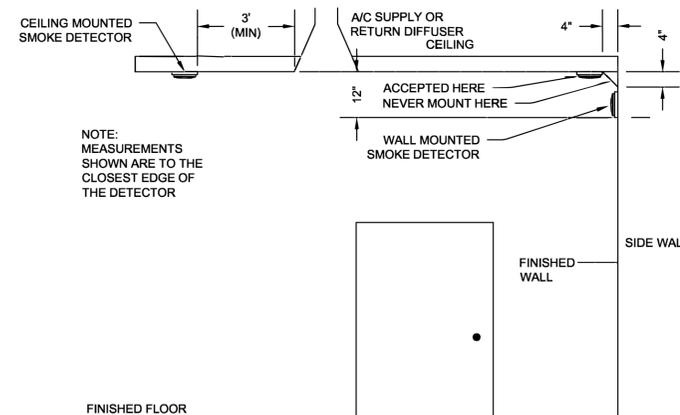
MP-300

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	RECESSED LOAD CENTER
	BRANCH CIRCUIT POWER WIRING
	BRANCH CIRCUIT HOME RUN
	DUPLEX RECEPTACLE OUTLET WITH GROUND-FAULT CIRCUIT-INTERRUPTER AND IN WEATHERPROOF ENCLOSURE
	MOTOR
	BATTERY OPERATED WIRELESS INTERCONNECT SMOKE DETECTOR
	DEMO'D MOTOR
	DEMO'D RECEPTACLE
	DEMO'D SWITCH
	DEMO'D LIGHTING FIXTURE

ELECTRICAL ABBREVIATIONS	
ABBREVIATIONS	DESCRIPTION
A	AMPERES
AC	ALTERNATING CURRENT (60 HZ)
AHJ	AUTHORITY HAVING JURISDICTION
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CU	COPPER
DWG	DRAWING
EX	EXISTING TO REMAIN
GFI	GROUND-FAULT CIRCUIT-INTERRUPTER
KVA	KILOVOLT AMPERE
NEC	NATIONAL ELECTRIC CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOC.
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NM/NM-B	NONMETALLIC SHEATHED
N.T.S.	NOT TO SCALE
P	POLE
S	SMOKE
UL	UNDERWRITER'S LABORATORY
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
W	WATTS
WP	WEATHERPROOF
#	NUMBER
'	FEET
"	INCHES

- ### ELECTRICAL GENERAL NOTES
- UNLESS OTHERWISE INDICATED, FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
 - ELECTRICAL PLANS AND DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL AND JUNCTION BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE ELECTRICAL SYSTEM.
 - FURNISH AND INSTALL A TEMPORARY ELECTRICAL SERVICE FOR ELECTRICAL POWER DURING CONSTRUCTION.
 - ALL EQUIPMENT AND MATERIAL SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
 - THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
 - ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE GOVERNING AUTHORITIES.
 - THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE 2011 EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
 - THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
 - THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
 - ELECTRICAL PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCE'S AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST; THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.
 - COORDINATE ELECTRICAL WORK WITH OWNER.
 - COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
 - BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
 - BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
 - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) ANS/NFPA 70 2011 EDITION.
 - TYPICAL MOUNTING HEIGHTS OF DEVICES SHALL COMPLY NECA 1-2010.
 - PENETRATIONS THROUGH GROUND SLAB SHALL BE SEALED WITH POLYURETHANE SEALANT TYPICAL FOR ALL PENETRATIONS.
 - FURNISH AND INSTALL MEANS OF DISCONNECTION FOR ALL MOTORIZED EQUIPMENT AND APPLIANCES IN ACCORDANCE WITH NEC.

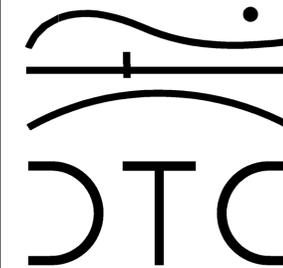
DRAWING LIST	
SHEET	NAME
E-001	ELECTRICAL NOTES, LEGENDS, ABBREVIATIONS, DETAILS & SCHEDULES
E-101	ELECTRICAL FLOOR PLANS



SMOKE DETECTOR MOUNTING HEIGHTS (PER NFPA 72) DETAIL
SCALE: N.T.S.

NOTES:

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ELECTRICAL NOTES,
LEGENDS,
ABBREVIATIONS &
DETAILS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

SCALE: NTS

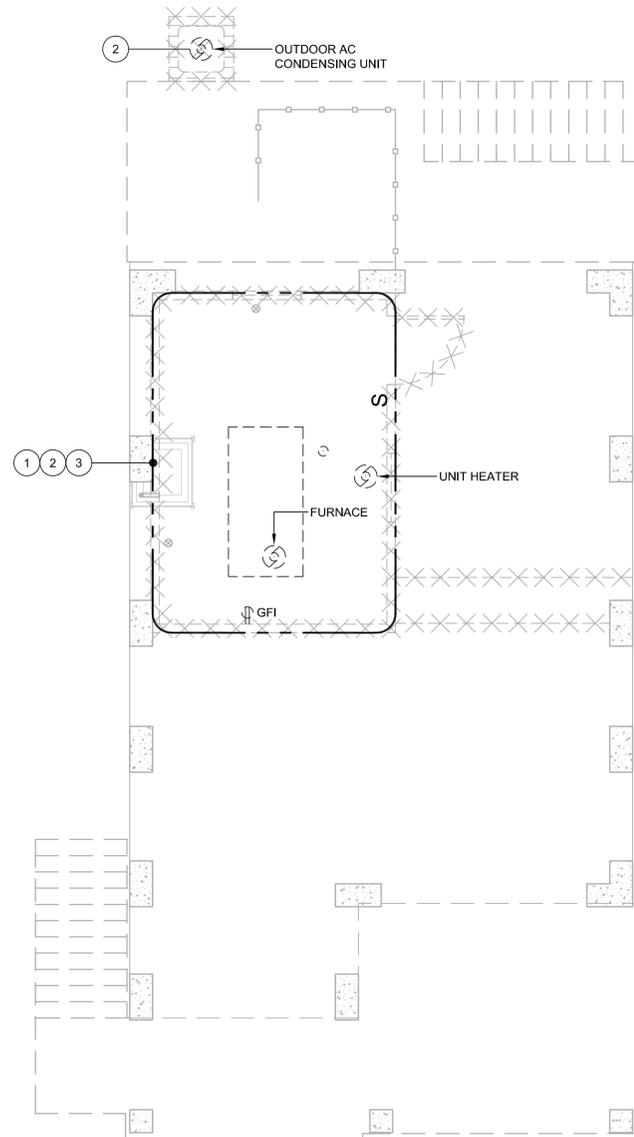
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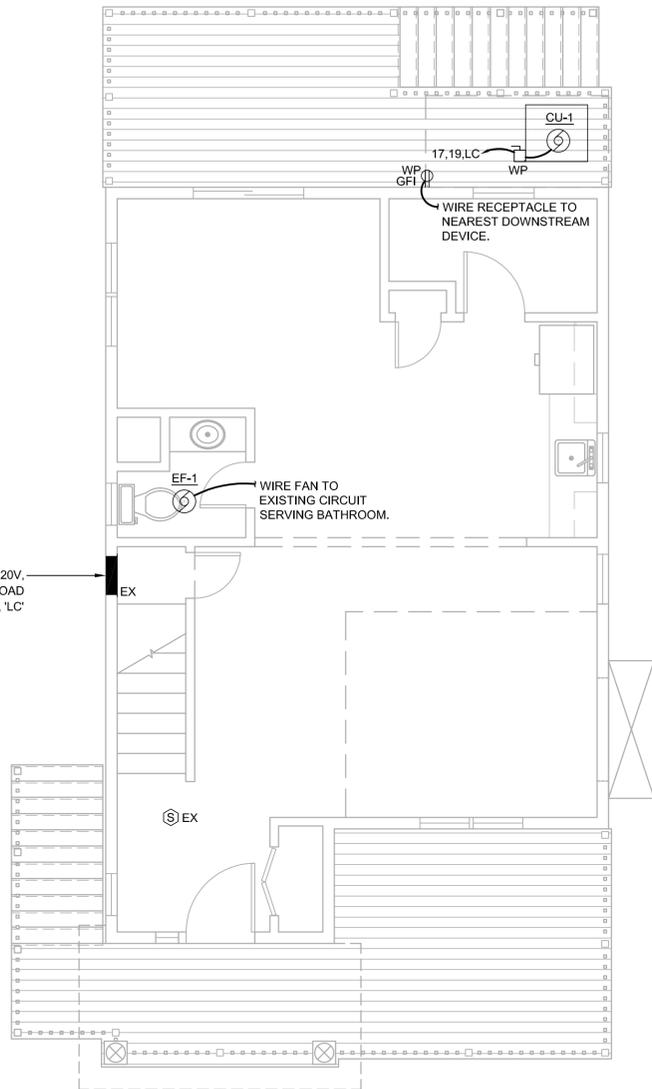
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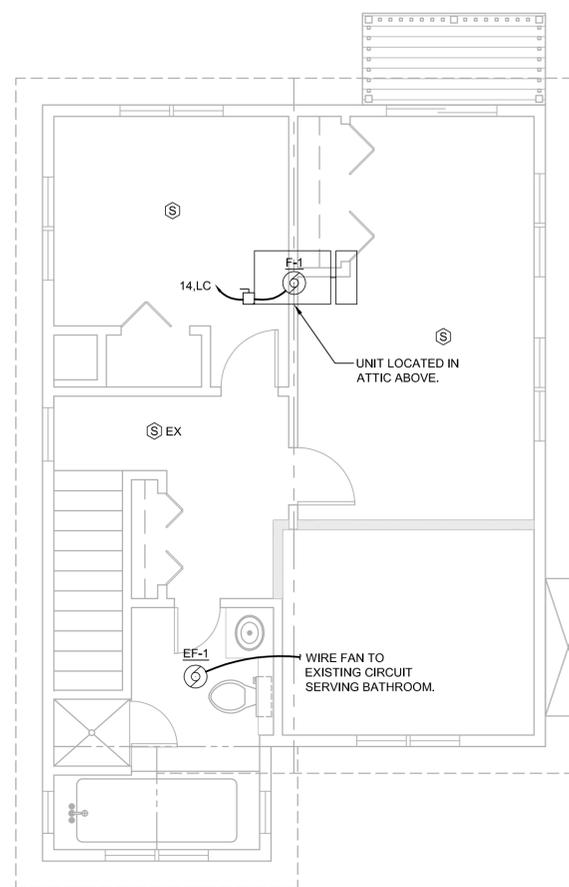
E-001



1 GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- ALL CIRCUITS ON THIS DRAWING SHALL BE SIZED 2#12, #12G AND SHALL BE CONNECTED TO NEW 20A-1P CIRCUIT BREAKER IN SOURCE PANEL, U.O.N.
- ALL 120VAC BRANCH CIRCUITS EXCEEDING 100' IN LENGTH SHALL BE INCREASED TO 2#10, #10G UNLESS OTHERWISE NOTED. REFER TO DWG E-001 FOR SYMBOL LEGEND AND ABBREVIATIONS.
- ALL BRANCH CIRCUIT USED INDOORS SHALL BE WIRED WITH NM CABLE U.O.N. REFER TO LOAD CENTER SCHEDULE FOR SIZING.
- ALL EQUIPMENT AND DEVICES LOCATED OUTDOORS SHALL BE CIRCUITED WITH CONDUIT AND WIRING. REFER TO LOAD CENTER SCHEDULE FOR SIZING.
- ALL 125-VOLT 15 AND 20 AMP RECEPTACLES LOCATED AT 5 1/2' AFF OR BELOW SHALL BE TAMPER RESISTANT.

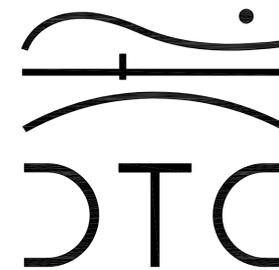
ELECTRICAL KEYNOTES

- REMOVE EXISTING RECEPTACLES, LIGHTING FIXTURES, SWITCHES, BACKBOXES AND WIRING BACK TO NEAREST DOWN STREAM DEVICE.
- REMOVE EXISTING MECHANICAL. REMOVE ALL CONDUIT BACK TO EXISTING LOAD CENTER 'LC'.
- PROVIDE HEAT TRACE FOR ALL WATER AND SANITARY LINES LOCATED BELOW THE FIRST FLOOR. WIRE HEAT TRACE CIRCUIT 11.LC.

EXIST. LOAD CENTER LC											
BREAKER		DESCRIPTION			PHASE LOAD - KVA		LOAD		BREAKER		
#	A	P		BRANCH CIRCUIT	LOAD	A	B	LOAD	BRANCH CIRCUIT	DESCRIPTION	
1	20	2	SPARE	-	-	-	-	-	-	EXIST. DRYER	
3	-	-	-	-	-	-	-	-	-	-	
5	20	1	EXIST. MICROWAVE	-	-	-	-	-	-	EXIST. REFRIGERATOR	
7	20	1	EXIST. COUNTER RECEPT	-	-	-	-	-	-	EXIST. RECEPTACLES	
9	20	1	EXIST. JACUZZI	-	-	-	-	-	-	EXIST. RECEPTACLES	
11	20	1	HEAT TRACE	#12, #12G, 3/4"C.	1.20	-	1.20	-	-	EXIST. DISHWASHER	
13	15	1	EXIST. BEDROOM RECEPT	-	-	0.24	-	0.24	2#12, #12G	F-1	
15	15	1	EXIST. BATHROOM LTG	-	-	-	-	-	-	EXIST. KITCHEN LIGHTING	
17	20	2	CU-1	2#12, #12G, 3/4"C.	1.87	1.87	-	-	-	EXIST. LIGHTING	
19	-	-	-	-	1.87	-	1.87	-	-	EXIST. LIGHTING	
TOTAL LOAD PER PHASE:						2.1	3.1				
TOTAL LOAD ON PANEL (KW):						5.18					
TOTAL LOAD ON PANEL (A):						24.92					

NOTES:

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ELECTRICAL FLOOR PLANS

DTC PROJECT NUMBER: 13-449-014

DTC DRAWING FILE:

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

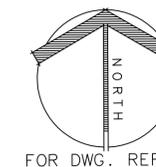
DRAWN BY: WM

DATE: 04/22/2016

CHECKED BY: JP

SHEET:

E-100



FOR DWG. REF.