INTERIOR & EXTERIOR RENOVATIONS FOR:

Cornerstone
Built on trust.
Bank

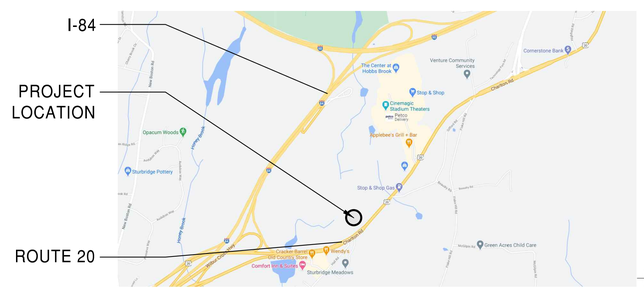
PROPOSED RENDERING - DO NOT REFERENCE

CONSTRUCTION DOCUMENTS

ISSUED FOR PERMIT: November 30th 2020

200 CHARLTON ROAD
STURBRIDGE, MA

LOCATION MAP:



LONG CONSULTING
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1450 Main Street East
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Abbreviations

ABV	ABOVE	F/	FACE OF	NF	NON FREEZE	STCO	STUCCO
AFF	ABOVE FINISH FLOOR	FAS	FASTEN,(ER)	NL	NAILABLE	SFLR	SUBFLOOR
AC	ACOUSTICAL	FBD	FIBERBOARD	NOM	NOMINAL	SUS	SUSPENDED
ACT	ACOUSTIC TILE	FGL	FIBERGLASS	N	NORTH	SYM	SYMETRICAL
ADJ	ADJACENT	FIN	FINISH,(ED)	NIC	NOT IN CONTRACT	SYS	SYSTEM
A/C	AIR CONDITIONING	FE	FIRE EXTINGUISHER	NTS	NOT TO SCALE		
AL	ALUMINUM	FEC	FIRE EXTINGUISHER CABINET	NO	NUMBER	TKBD	TACKBOARD
ANC	ANCHOR	FH	FIRE HYDRANT			TEL	TELEPHONE
AB	ANCHOR BOLT	FP	FIREPROOF	OC	ON CENTER	TG	TEMPERED GLASS
ANOD	ANODIZED	FRT	FIRE-RETARDENT	OP	OPAQUE	TZ	TERRAZZO
ARCH	ARCHITECT,(URAL)	FIXT	FIXTURE	OPG	OPENING	THK	THICK,(NESS)
AD	AREA DRAIN	FLG	FLASHING	OH	OPPOSITE HAND	THR	THRESHOLD
ASBO	AS SELECTED BY OWNER	FG	FLOAT GLASS	ORN	ORNAMENTAL	TPD	TOILET PAPER DISPENSER
AT	ASPHALT TILE	FLR	FLOOR,(ING)	OD	OUTSIDE DIAMETER	TPTN	TOILET PARTITION
ATS	ABOVE TOP OF SLAB	FD	FLOOR DRAIN	OA	OVERALL	T&G	TONGUE AND GROOVE
AWN	AWNING	FL	FLOW LINE	OSA	OUTSIDE AIR	T/	TOP OF
BL	BASE LINE	FLUR	FLUORESCENT	OH	OVERHEAD	TC	TOP OF CURB
BM	BEAM	FJT	FLUSH JOINT			TR	TRANSOM
BRG	BEARING	FTG	FOOTING	PNL	PANEL,(ING)	T	TREAD
BPL	BEARING PLATE	FND	FOUNDATION	PTD	PAPER TOWEL DISPENSER	TYP	TYPICAL
BVL	BEVELED	FR	FRAME	PTR	PAPER TOWEL RECEPTOR	TRTD	TREATED
BLK	BLOCK	FS	FULL SIZE	PBD	PARTICLE BOARD	UC	UNDERCUT
BLKG	BLOCKING	FUR	FURRED,(ING)	PTN	PARTITION	UNF	UNFINISHED
BD	BOARD			PV	PAV(,D)(ING)	UNO	UNLESS NOTED OTHERWISE
BOT/	BOTTOM OF	GA	GAGE	PVMT	PAVEMENT	UR	URINAL
BRKT	BRACKET	GALV	GALVANIZED	PER	PERIMETER		
BRS	BRASS	GC	GENERAL CONTRACTOR	PTR	PLANTER	VJ	V- JOINT
B.R.	BACKER ROD	GL	GLASS	PLTG	PLANTING	VB	VAPOR BARRIER
BR	BRICK	GLB	GLASS BLOCK	PLAS	PLASTER	VERT	VERTICAL
BRZ	BRONZE	GLAM	GLUED LAMINATE	PLAM	PLASTIC LAMINATE	VIN	VINYL
BLDG	BUILDING	GD	GRADE	PL	PLATE	VB	VINYL BASE
BUR	BUILT UP ROOFING	GT	GROUT	PLWD	PLYWOOD	VCT	VINYL COMPOSITION TILE
BO	BY OWNER	GR	GRILLE	PLBG	PLUMBING	VT	VINYL TILE
		GUT	GUTTER	PT	POINT	VITCT	VITREOUS CLAY TILE
CAB	CABINET	GDW	GYPSUM DRYWALL	PVC	POLYVINYL CHLORIDE		
CAN	CANVAS			PCF	POUNDS PER CUBIC FOOT	WSCT	WAINSCOT
CPT	CARPET	HDW	HARDWARE	PLF	POUNDS PER LINEAL FOOT	WH	WALL HUNG
CSMT	CASEMENT	HWD	HARDWOOD	PSF	POUNDS PER SQUARE FOOT	WC	WATER CLOSET
CI	CAST IRON	HTR	HEATER	PSI	POUNDS PER SQUARE INCH	WHTR	WATER HEATER
CB	CATCH BASIN	HTG	HEATING	PCC	PRECAST	WP	WATERPROOFING
CLG	CEILING	HVAC	HEATING/VENTILATING/	PFB	PREFABRICATE,(D)	WR	WATER RESISTANT
CHT	CEILING HEIGHT		AIR CONDITIONING	PFN	PREFINISHED	WS	WATERSTOP
CEM	CEMENT	HT	HEIGHT	PRF	PREFORMED	WST	WEATHER-STRIP,(PING)
CER	CERAMIC	HM	HOLLOW METAL	PREM	PREMOLDED	WWF	WELDED WIRE FABRIC
CT	CERAMIC TILE	HMF	HOLLOW METAL FRAME	PL	PROPERTY LINE	W	WEST
CHBD	CHALKBOARD	HB	HOSE BIB	PLCS	PLACES	WDW	WINDOW
CHAM	CHAMFER	HD	HUB DRAIN			WC	WIRE GLASS
CR	CHROME			QT	QUARRY TILE	WM	WIRE MESH
CIR	CIRCLE	INCAN	INCANDESCENT	RBT	RABBET	WO	WITHOUT
CIRC	CIRCUMFERENCE	INCL	INCLUDE,(ED),(ING)	R	RADIUS	WD	WOOD
COL	COLUMN	ID	INSIDE DIMENSION	REF	REFERENCE	WI	WROUGHT IRON
CL	CENTER LINE	INS	INSULATE,(ED),(ING)	RFL	REFLECT,(ED),(ING)		
CO	CLEAN OUT	INT	INTERIOR	REFR	REFRIGERATION		
CW	COLD WATER	INTM	INTERMEDIATE	REG	REGISTER		
CONC	CONCRETE	INV	INVERT	REIN	REINFORCE,(D),(ING)		
CMU	CONCRETE MASONRY UNIT			RCP	REINFORCED CONCRETE PIPE		
COND	CONDENSATE	JT	JOINT	REM	REMOVE		
CONST	CONSTRUCTION	JF	JOINT FILLER	REQ'D	REQUIRED		
CONT	CONTINUE, CONTINUOUS	J	JOIST	RES	RESILIENT		
CG	CORNER GUARD			RA	RETURN AIR		
CTR	COUNTER	KPL	KICKPLATE	REV	REVISE,(D)		
CFT	CUBIC FEET	KIT	KITCHEN	RIG	RIGID		
CFH	CUBIC FEET PER HOUR	KO	KNOCKOUT	RH	RIGHT HAND		
CFM	CUBIC FEET PER MINUTE			ROW	RIGHT OF WAY		
CYD	CUBIC YARD	LB	LAG BOLT	R	RISER		
		LAM	LAMINATED	RD	ROOF DRAIN		
DP	DAMPPROOFING	LGL	LAMINATED GLASS	RTU	ROOF TOP UNIT		
DL	DEAD LOAD	LAV	LAVATORY	RFG	ROOFING		
DEMO	DEMOLISH,(DEMOLITION	LH	LEFT HAND	RM	ROOM		
DTL	DETAIL	LT	LIGHT	RO	ROUGH OPENING		
DIA	DIAMETER	LTL	LINTEL	RB	RUBBER BASE		
DIM	DIMENSION	LL	LIVE LOAD	RBT	RUBBER TILE		
DIV	DIVISION	LVR	LOUVER				
DR	DOOR	LP	LOW POINT	SCH	SCHEDULE		
DN	DOWN			SLT	SEALANT		
DS	DOWNSPOUT	MB	MACHINE BOLT	STG	SEATING		
DWG	DRAWING	MH	MANHOLE	SEC	SECTION		
DF	DRINKING FOUNTAIN	MFR	MANUFACTURE,(R)	SHTH	SHEATH,(ING)		
		MAR	MARBLE	SHT	SHEET		
EA	EACH	MAS	MASONRY	SG	SHEET GLASS		
EF	EACH FACE	MTL	METAL	SIM	SIMILAR		
EW	EACH WAY	MAX	MAXIMUM	SC	SOLID CORE		
ESMNT	EASEMENT	ME	MATCH EXISTING	SP	SOUNDPROOFING		
E	EAST	MECH	MECHANICAL	S	SOUTH		
ELEC	ELECTRIC,(AL)	MED	MEDIUM	SGL	SPANDREL GLASS		
EP	ELECTRICAL PANELBOARD	MOD	MEDIUM DENSITY OVERLAY	SPK	SPEAKER		
EWC	ELECTRIC WATER COOLER	MBR	MEMBER	SPL	SPECIAL		
ELEV	ELEVATION	MMB	MEMBRANE	SPEC	SPECIFICATION		
EQ	EQUAL	MET	METAL	SQ	SQUARE		
EQP	EQUIPMENT	MIN	MINIMUM	SST	STAINLESS STEEL		
EST	ESTIMATE	MISC	MISCELLANEOUS	STGL	STAINED GLASS		
EXH	EXHAUST	MOD	MODULAR	STD	STUD		
EXIST	EXISTING	MLD	MOLDING	STA	STATION		
EJT	EXPANSION JOINT	MT	MOUNT,(ED),(ING)	ST	STEEL		
EXP	EXPOSED	MOV	MOVABLE	SD	STORM DRAIN		
EXT	EXTERIOR	MULL	MULLION	STR	STRUCTURAL		

General Notes

1. GENERAL CONTRACTOR TO NOTIFY ARCHITECT OF ANY INCONSISTENCIES IN THE DRAWINGS, EXISTING CONDITIONS OR THE PROPOSED CONSTRUCTION IMMEDIATELY
2. GENERAL CONTRACTOR TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL BE HELD RESPONSIBLE FOR THE SAME.
3. ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF FINISH MATERIAL AND CENTERLINE OF STRUCTURAL STEEL COLUMNS UNLESS OTHERWISE NOTED.
4. ALL NOTES AND DIMENSIONS DESIGNATED AS "TYP", OR "TYPICAL" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.
5. FOR WALL TYPES REFER TO DRAWING A0.00
6. ALL DOORS SHALL BE LOCATED WITH HINGE SIDE OF FRAME 4" OFF FINISHED WALL (AT CORNER CONDITION), UNLESS OTHERWISE NOTED.
7. ROOFING CONTRACTOR TO VERIFY QUANTITY AND LOCATION OF ROOF PENETRATIONS, AND TO FLASH ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
8. THE REQUIREMENTS FOR SEISMIC LOADS HAVE BEEN INCORPORATED INTO THE DESIGN OF THE STRUCTURAL, MECHANICAL AND SUSPENDED CEILING SYSTEMS AS REQUIRED FOR A NEW CONSTRUCTION.
9. SIGNAGE SHALL BE PLACED ON THE WALL ADJACENT TO THE LEVEL SIDE OF A ROOM DOOR AT A HEIGHT OF 5'-0" A.F.F.
10. PROVIDE AN ALUMINUM DIVIDER STRIP AT ALL DOOR THRESHOLDS WHERE TWO DIFFERENT FINISHES MEET UNLESS OTHERWISE NOTED.

General Demo Notes

THE CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS AND ITEMS TO BE DEMOLISHED PRIOR TO THE SUBMISSION OF BIDS AND THE COMMENCEMENT OF CONSTRUCTION. IN THE CASE THAT FIELD CONDITIONS DIFFER FROM CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MOST STRINGENT AND COST PROHIBITIVE CONDITIONS.

IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN ALL ASPECTS. IT IS NOT THE INTENT TO DOCUMENT EACH AND ALL DETAILS ON THE DRAWINGS AND IN THE SPECIFICATION OF PROPOSED WORK OR PRODUCTS. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT TYPICALLY REQUIRED FOR A COMPLETE INSTALLATION, WHERE SPECIFICALLY NOTED OR OTHERWISE INTENDED.

HAZARDOUS MATERIAL IDENTIFICATION AND REMOVAL IS THE SOLE RESPONSIBILITY OF THE OWNER/ CONTRACTOR.

ONLY NOTES AND SPECIFICATIONS INCLUDED IN THIS SCOPE OF WORK APPLY

General Ceiling Notes

1. COORDINATE CEILING WORK WITH MECHANICAL, ELECTRICAL, COMMUNICATIONS, SPRINKLERS AND ALARM INSTALLATION.
2. COORDINATE ALL PHASES OF WORK WITH OWNERS REPRESENTATIVES.
3. VERIFY ALL FIELD CONDITIONS PRIOR TO ANY WORK.
4. NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPENCIES.

Wall Notes

1. ALL FIRE AND SMOKE RESISTANT SEPARATIONS ARE TO EXTEND OR BE EXTENDED TO THE UNDERSIDE OF FLOOR OR ROOF DECK ABOVE, TYPICAL.
2. FOR SMOKE RESISTANT SEPARATIONS, PROVIDE FIRE SAFING AND SEALANT AT FLOOR, ROOF DECK AND ALL PENETRATIONS TO PREVENT THE PASSAGE OF SMOKE
3. AT ALL NON-RATED PARTITIONS FILL VOIDS INCLUDING METAL DECK FLUTES WHERE PARTITIONS MEET THE STRUCTURE ABOVE WITH BATT INSULATION.
4. AT ALL NON-RATED PARTITIONS FILL VOIDS BETWEEN PIPES, ELECTRICAL CONDUITS, DUCTWORK, ETC. WHERE THEY PENETRATE WALL WITH BATT INSULATION.
5. PROVIDE SMOKE DAMPERS AT ALL MECHANICAL PENETRATIONS THROUGH ONE HOUR RATED SMOKE BARRIER
6. PROVIDE FIRE DAMPERS AT ALL MECHANICAL PENETRATIONS THROUGH TWO HOUR FIRE RATED PARTITIONS.
7. SEE WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.

ONLY NOTES AND SPECIFICATIONS INCLUDED IN THIS SCOPE OF WORK APPLY

Thermal and Moisture Protection

1. THE FOLLOWING SPECIFICATION SHALL GOVERN WITH MODIFICATIONS AS SPECIFIED HEREIN: AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS (ASHRAE) HANDBOOK OF FUNDAMENTALS.
2. INSTALL FLASHING AND SHEET METAL IN COMPLIANCE WITH "ARCHITECTURAL SHEET METAL MANUAL" BY SMACNA.
3. PROVIDE AND INSTALL FLASHING AT ALL ROOF AND WALL CONDITIONS, PROJECTIONS OF WOOD BEAMS THROUGH EXTERIOR WALLS, EXTERIOR OPENINGS AND ELSEWHERE AS REQUIRED TO PROVIDE WATERTIGHT/WEATHERPROOF PERFORMANCE.
4. SLOPES OF 4" IN 12" OR GREATER: ASPHALT SHINGLE ROOFS SHALL HAVE AN UNDERLAYMENT OF NOT LESS THAN ONE PLY OF 15# FELT, APPLIED AS REQUIRED BY BUILDING CODES.
5. UNLESS OTHERWISE NOTED, PROVIDE AND INSTALL BUILDING THERMAL INSULATION IN ACCORDANCE WITH THE FOLLOWING;
   A. EXTERIOR WALLS : (WOOD) R-13 + R-3.8CI OR R-20 MINIMUM;
   (METAL) R-13 + R-7.5CI
   B. FLAT CEILINGS : R-38 MINIMUM
   C. FLOORS OVER OUTSIDE SPACE : R-30 MINIMUM
   D. ROOF: (ABOVE ROOF DECK) R-30CI MINIMUM (ATTIC) R-38 MINIMUM
6. PROVIDE EXPANDING FOAM SEALANT AT WINDOW SHIM SPACES.
7. FIT INSULATION TIGHT WITHIN SPACES AND TIGHT TO AND BEHIND MECHANICAL AND ELECTRICAL DEVICES WITHIN THE PLANE OF INSULATION. LEAVE NO GAPS OF SPACES BEING SURE NOT TO COMPRESS GLASS INSULATION.
8. INSTALL VENTING IN SLOPED CEILING AREAS TO PERMIT AIRFLOW ALONG THE COOL SIDE OF THE INSULATION FROM THE EAVE TO THE RIDGE.
9. PROVIDE AND INSTALL JOINT SEALERS TO COMPLY WITH MANUFACTURER'S PRINTED INSTRUCTIONS APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED.
10. PROVIDE AND INSTALL GUTTERS AND DOWNSPOUTS AS PER SMACNA ARCHITECTURAL SHEET METAL MANUAL.

ONLY NOTES AND SPECIFICATIONS INCLUDED IN THIS SCOPE OF WORK APPLY

Finish Notes

GYPSUM BOARD

1. PROVIDE AND INSTALL GYPSUM BOARD IN ACCORDANCE WITH AMERICAN STANDARD SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD AS APPROVED BY THE AMERICAN STANDARDS ASSOCIATION, LATEST EDITION; APPLICABLE PARTS THEREOF ARE HEREBY MADE A PART OF THIS SPECIFICATION EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE CALLED FOR IN THE SPECIFICATION, IN LOCAL CODES OR BY THE MANUFACTURER OF THE GYPSUM WALLBOARD, WHOSE REQUIREMENTS SHOULD BE FOLLOWED.
2. PROVIDE AND INSTALL MOISTURE RESISTANT GYPSUM WALLBOARD IN LOCATIONS SUBJECT TO MOISTURE. PROVIDE TYPE X GYPSUM BOARD AS CALLED FOR ON THE DRAWINGS.

PAINT

1. APPLICATION OF PAINT OR OTHER COATING SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. READY MIXED PAINT SHALL NOT BE THINNED EXCEPT AS PERMITTED IN THE APPLICATION INSTRUCTIONS AND WITH PRIOR APPROVAL.

FLOORING MATERIAL

1. INSTALL CERAMIC TILES OR NATURAL STONE TILE IN COMPLIANCE WITH PERTINENT RECOMMENDATIONS CONTAINED IN THE TILE COUNCIL OF AMERICA "HANDBOOK FOR CERAMIC TILE INSTALLATION" AND MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE MANUFACTURER APPROVED UNDERLAYMENT FOR ALL FLOORING TYPES CALLED OUT IN CONSTRUCTION DOCUMENTS.

ONLY NOTES AND SPECIFICATIONS INCLUDED IN THIS SCOPE OF WORK APPLY

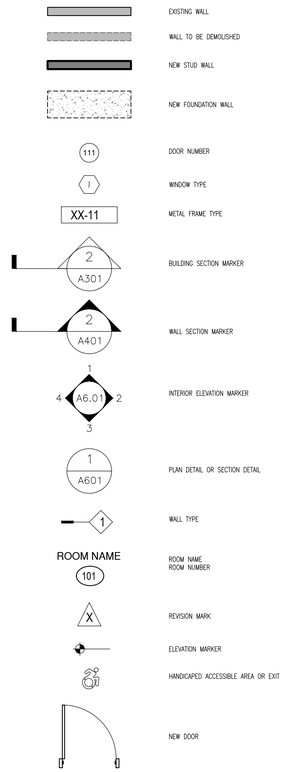
Doors and Windows

1. REFERENCE STANDARDS FOR METAL DOORS, WOOD DOORS, AND WINDOWS SHALL BE AS FOLLOWS:
   A. UNDERWRITERS LABORATORIES, INC. ; BUILDING MATERIALS DIRECTORY.
   B. NATIONAL FIRE PROTECTION ASSOCIATION; PAMPHLET NO. 80 STANDARD FOR FIRE DOORS AND WINDOWS.
   C. NATIONAL WOODWORK MANUFACTURER'S ASSOCIATION; I.S., 1078; WOOD FLUSH DOORS.
   D. AIR LEAKAGE; ASTM E283
   E. WATER RESISTANCE; ASTM E331
2. GLAZING IN ALL LOCATIONS WHICH MAYBE SUBJECT TO HUMAN IMPACT, AS LISTED IN C.A.B.O. SECTION R-208.4, SUCH AS FRAMELESS GLASS DOORS, GLASS ENTRANCES AND EXIT DOORS, FIXED GLASS PANELS, SLIDING GLASS DOORS, SHOWER DOORS, TUB ENCLOSURES AND STORM DOORS SHALL MEET THE DOOR REQUIREMENTS SET FORTH IN THE BUILDING CODES AND THE SAFETY STANDARD FOR GLAZING MATERIALS (16 CFR 1202). ALL GLAZING WHICH IS LOCATED 18" ABOVE THE FINISH FLOOR AND 24" ADJACENT TO A DOOR JAMB SHALL BE TEMPERED.
3. ALL MANUFACTURED WINDOWS AND SLIDING GLASS DOORS SHALL MEET THE AIR INFILTRATION STANDARDS OF THE 1972 AMERICAN NATIONAL STANDARDS INSTITUTE ASTM E283-73 WITH A PRESSURE DIFFERENTIAL OF 1.57 POUNDS PER SQUARE FOOT AND SHALL BE CERTIFIED AND LABELED.
4. UNLESS OTHERWISE NOTED EXTERIOR ENTRANCE DOORS SHALL BE 1 ¾" THICK INSULATED METAL DOORS OR APPROVED EQUAL AND SHALL MEET THE FOLLOWING REQUIREMENTS;

   AIR INFILTRATION : ASTM E283
   WATER RESISTANCE : ASTM E331
   ACOUSTICAL PERFORMANCE : ASTM E413-70T-STC28
   THERMAL TRANSMISSION : R-15.49 (CALCULATED)
   DOORS SHALL BE PROVIDED WITH FACTORY BACKED-ON PRIME PAINT FINISH. SIDELIGHTS SHALL BE TEMPERED GLAZING AND SIZED AS INDICATED ON DRAWINGS.
5. HANDICAPPED ACCESSIBLE DOOR HARDWARE SHALL COMPLY WITH 521 CMR
6. ALL DOORS EXITING 100 OR MORE PERSONS SHALL HAVE PANIC EXIT DEVICES.
7. ALL RATED DOORS AND DOORS FRONTING CORRIDORS SHALL HAVE POSITIVE LATCHING LOCKSETS OR LATCHSETS AND CLOSERS.

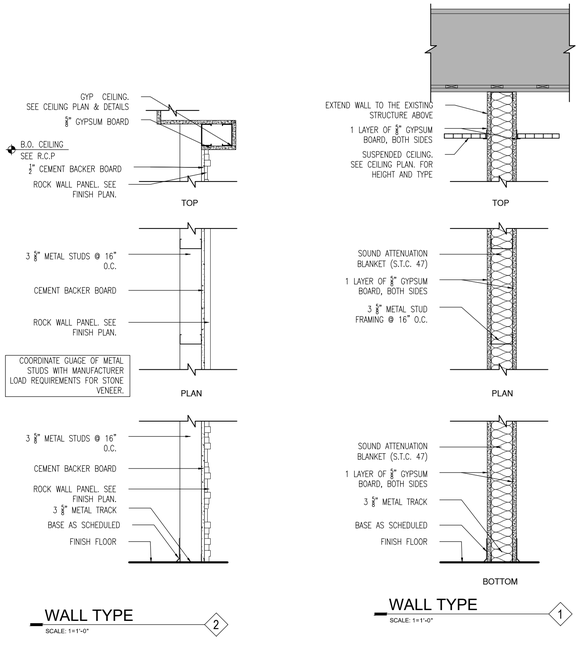
ONLY NOTES AND SPECIFICATIONS INCLUDED IN THIS SCOPE OF WORK APPLY

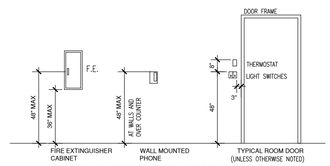
Architectural Symbols



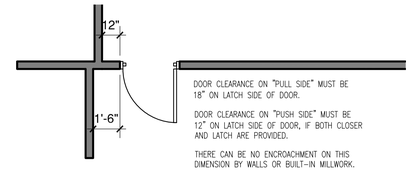
List Of Drawings

Wall Types





2 MOUNTING HEIGHTS
SCALE: N.T.S.



DOOR CLEARANCE ON "PULL SIDE" MUST BE 18" ON LATCH SIDE OF DOOR.

DOOR CLEARANCE ON "PUSH SIDE" MUST BE 12" ON LATCH SIDE OF DOOR, IF BOTH CLOSER AND LATCH ARE PROVIDED.

THERE CAN BE NO ENCROACHMENT ON THIS DIMENSION BY WALLS OR BUILT-IN MILLWORK.

1 521 CMR DOOR CLEARANCE

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Brookfield, CT 06804

RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

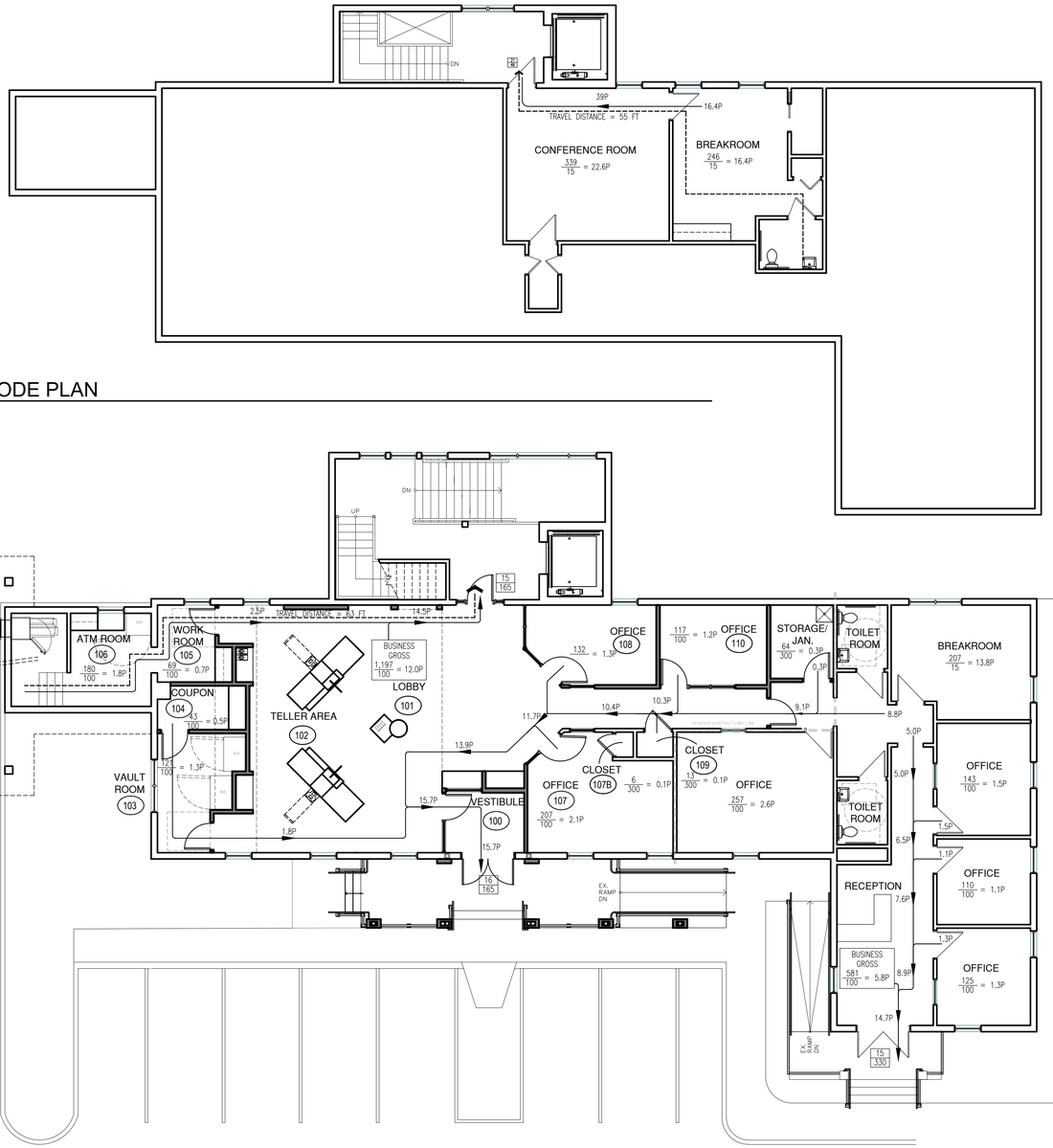
Scale: AS NOTED

Project No. 2K20.015

Drawn by:

A0.00

General Notes



2 SECOND FLOOR CODE PLAN

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

1 FIRST FLOOR CODE PLAN

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

Code Reference Plan Legend

- SMOKE RESISTANCE SEPARATION — 1 HOUR FIRE RATING WALL (CONTINOUS TO DECK ABOVE)
- 45 — MAXIMUM TRAVEL DISTANCE
- 20P — DIRECTION OF EGRESS PATH WITH ACCUMULATED OCCUPANCY
- 165 / 165 — ACTUAL DOOR/STAIR CAPACITY / MAXIMUM ALLOWABLE DOOR/STAIR CAPACITY
- 2000/100 = 20P — OCCUPANCY LOAD: AREA IN SQUARE FEET / OCCUPANCY LOAD FACTOR = TOTAL CALCULATED OCCUPANTS
- O.L. = 2P — ACTUAL OCCUPANTS WITHIN THE SPACE IF ANTICIPATED TO BE GREATER THAN CALCULATED
- HANDICAP ACCESSIBLE ROUTE
- FE — SEMI RECESSED FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER

Building Information

BUILDING: INTERIOR & EXTERIOR RENOVATION OF 2,100 SQFT (AREA OF WORK) BANK BRANCH
TOTAL AREA OF BUILDING: 4,200 SQFT

DATE OF PROPOSED CONSTRUCTION: JANUARY 2021

1. USE GROUP CLASSIFICATION (301): BUSINESS (B) NO CHANGE
2. CONSTRUCTION TYPE (602): EXISTING BUILDING — TYPE VB EXISTING
3. BUILDING HEIGHT (503): STORIES / FEET
   - ALLOWABLE HEIGHT: 2/40
   - ACTUAL HEIGHT: 2/20.5
4. BUILDING AREA (503) (INTERIOR FACE OF EXTERIOR WALLS AND OPEN SPACE AREA)
   - ALLOWABLE AREA – USE GROUP (B): 9,000 SF
   - ACTUAL AREA — AREA OF WORK: 2,100 SF AREA OF LARGEST STORY: 3,600 – NO CHANGE
5. FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (601)
   1. STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, TRUSSES): EXISTING NO CHANGE
   2. BEARING WALLS
      - EXTERIOR: EXISTING NO CHANGE
      - INTERIOR: EXISTING NO CHANGE
   3. NON BEARING WALLS AND PARTITIONS (EXTERIOR): EXISTING NO CHANGE
   4. NON BEARING WALLS AND PARTITIONS (INTERIOR): EXISTING NO CHANGE
   5. FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS): EXISTING NO CHANGE
   6. ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS): EXISTING NO CHANGE
6. OCCUPANCY LOAD
   - TOTAL DESIGN LOAD (BUSINESS: 100 SF PER PERSON)
     - AREA OF WORK: 46 P
   - TOTAL EXIT CAPACITY
     - AREA OF WORK: 330 P
7. ACCESSIBLE BUILDING: [X] DESIGNATED [ ] NON-DESIGNATED
8. MINIMUM PLUMBING FIXTURE COUNT.

TOTAL FACILITY OCCUPANCY LOAD = 46 P (23 PER GENDER) – NO CHANGE IN USE – EXISTING FIXTURES TO REMAIN

FIXTURES	REQUIREMENTS	PROVIDED
WATER CLOSETS	1 PER 25 MALE	1
	1 PER 20 FEMALE	1
WATER CLOSETS		+ 1 UNISEX
LAVATORIES	1 PER 50	1
DRINKING FOUNTAINS	1 PER FLOOR (WATER STATION WITHOUT DRAIN)	1
SERVICE SINK	1 PER FLOOR	1

9. FIRE PROTECTION SYSTEMS
   - FIRE SUPPRESSION: --
   - FIRE DETECTION: --
10. NUMBER OF EXITS - PROJECT AREA
    - EXIT REQUIRED (SECTION 1015): 2
    - EXIT PROVIDED: 3
11. TRAVEL DISTANCE
    - MAXIMUM TRAVEL DISTANCE ALLOWED: BUSINESS 200 FT
    - ACTUAL TRAVEL DISTANCE
      - AREA OF WORK: 63 FT

    EGRESS WIDTH REQUIRED:
    CORRIDOR MIN. = 36" (IBC SECTION 1018.2)
    EGRESS WIDTH PROVIDED = 42"
    MAX. COMMON PATH OF TRAVEL 100 FT (IBC SECTION 1014.3)
    MAX. COMMON PATH OF TRAVEL PROVIDED 45 FT
12. THRESHOLD BUILDING CONDITIONS: YES [ ] NO [X]
13. CODES TO WHICH THIS PROJECT WAS DESIGNED

    THE COMMONWEALTH OF MASSACHUSETTS CMR AND INCLUDING THE FOLLOWING SECTIONS
    THE COMMONWEALTH OF MASSACHUSETTS 248 CMR MA STATE PLUMBING CODE
    THE COMMONWEALTH OF MASSACHUSETTS 521 CMR ARCHITECTURAL ACCESS BOARD
    THE COMMONWEALTH OF MASSACHUSETTS 527 CMR FIRE SAFETY & ELECTRICAL CODE
    THE COMMONWEALTH OF MASSACHUSETTS 780 CMR BUILDING CODE NINTH EDITION

INTERNATIONAL BUILDING CODE	2015
INTERNATIONAL EXISTING BUILDING CODE	2015
INTERNATIONAL ENERGY CONSERVATION CODE	2015
INTERNATIONAL MECHANICAL CODE	2015
PORTIONS OF THE INTERNATIONAL FIRE CODE	2015

THE AMERICANS WITH DISABILITIES ACT, TITLE II, INCLUDING THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) AND ADA REGULATIONS

MIN. REQUIRED INTERIOR FINISH – CLASS C

EXTINGUISHER REQUIREMENTS: (NFPA 10)
LOW HAZARD USE MIN. TYPE 2-A MAX. 75 FEET, 11,250 SF

FIRE ALARM REQUIREMENTS: (IBC SECTION 907)
BUSINESS (B) USE: OCCUPANT LOAD < 500 NOT REQUIRED

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

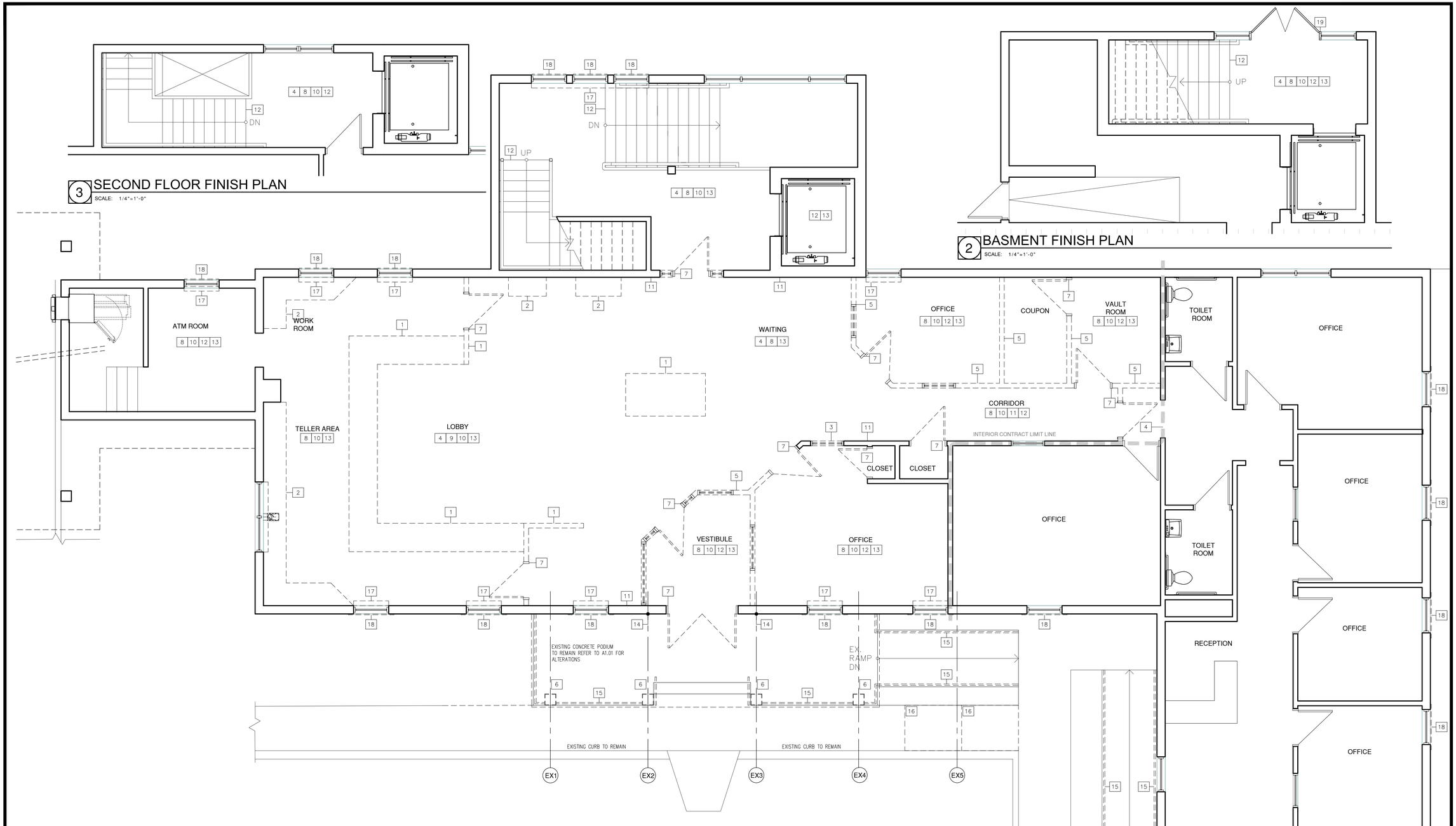
Scale: AS NOTED

Project No. 2K20.015

Drawn by: RJD

A0.01

Code Plan



1 DEMOLITION PLAN

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

LEGEND

- EXISTING TILE TO BE REMOVED
- EXISTING WALL OR ITEMS TO BE DEMOLISHED
- EXISTING DOOR AND FRAME FOR REUSE (EX)
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING DOOR AND FRAME TO BE REMOVED

GENERAL DEMO NOTES

THE CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS AND ITEMS TO BE DEMOLISHED PRIOR TO THE SUBMISSION OF BIDS AND THE COMMENCEMENT OF CONSTRUCTION. IN THE CASE THAT FIELD CONDITIONS DIFFER FROM CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MOST STRINGENT AND COST PROHIBITIVE CONDITIONS.

IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN ALL ASPECTS. IT IS NOT THE INTENT TO DOCUMENT EACH AND ALL DETAILS ON THE DRAWINGS AND IN THE SPECIFICATION OF PROPOSED WORK OR PRODUCTS. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT TYPICALLY REQUIRED FOR A COMPLETE INSTALLATION, WHERE SPECIFICALLY NOTED OR OTHERWISE INTENDED.

HAZADOUS MATERIAL IDENTIFICATION AND REMOVAL IS THE SOLE RESPONSIBILITY OF THE OWNER/ CONTRACTOR.

DEMOLITION NOTES

1. REMOVE EXISTING TELLER LINE MILLWORK AND ALL ASSOCIATED POWER AND DATA. REROUTE AS REQUIRED.
2. REMOVE EXISTING EXISTING MILLWORK PATCH AND REPAIR WALL AND FLOOR AND PREPARE TO RECEIVE NEW FINISHES.
3. REMOVE EXISTING WOOD FRAMED BORROWED LIGHT, WOOD FRAMED BASE BELOW OPENING AND PREPARE FOR NEW DIRTT FRAME DOWN TO FINISHED FLOOR
4. REMOVE EXISTING CERAMIC FLOOR TILE ENTIRELY WITHIN INTERIOR CONTRACT LIMIT LINE. PREPARE FLOOR TO RECEIVE NEW FINISHES AND CREATE A FLUSH TRANSITION BETWEEN NEW FLOOR FINISHES. SEE FINISH PLAN AND CALL ARCHITECT WITH QUESTIONS.
5. REMOVE EXISTING WALL, PATCH AND REPAIR WALLS AND FLOORS AS REQUIRED TO RECEIVE TO FINISHES. SEE A1.01 FOR NEW WALL LOCATIONS.
6. REMOVE EXISTING COLUMNS. EXISTING COLUMN PIERS/FOUNDATION TO BE REUSED. SEE EXTERIOR ELEVATIONS AND BUILDING SECTION DRAWINGS FOR DETAILS.
7. REMOVE EXISTING DOOR, FRAME AND ANY ASSOCIATED, HARDWARE, THRESHOLD ETC.
8. REMOVE EXISTING SUSPENDED CEILING TILE, GRID, AND ANY ASSOCIATED LIGHTING AND CEILING MOUNTED FIXTURES.
9. REMOVE EXISTING PENDANT, RECESSED, AND SURFACE MOUNTED LIGHTING AND ASSOCIATED FIXTURES.
10. REMOVE ALL WALL COVERINGS ENTIRELY WITHIN INTERIOR CONTRACT LIMIT LINE.
11. REMOVE EXISTING CHAIR RAIL ENTIRELY WITHIN INTERIOR CONTRACT LIMIT LINE AND PATCH AND REPAIR EXISTING WALL. PREPARE FOR NEW FINISHES
12. REMOVE ALL EXISTING CARPET FROM WITHIN INTERIOR CONTRACT LIMIT LINE. PREPARE FOR NEW FINISHES
13. REMOVE EXISTING BASE ENTIRELY FROM WITHIN CONTRACT LIMIT LINE. PREPARE FOR NEW FINISHES
14. REMOVE EXISTING INTERIOR FINISHES AS NECESSARY TO INSTALL NEW STRUCTURAL POST BELOW TO EXISTING FOUNDATION
15. REMOVE EXISTING GUARDRAILS. PREPARE FOR NEW GUARDRAIL INSTALLATION
16. REMOVE EXISTING CONCRETE SIDEWALK TO ADJACENT CONTROL / EXPANSION JOINT AS REQUIRED FOR INSTALLATION OF NEW FOOTING. PREPARE FOR REINSTALLATION.
17. REMOVE ALL EXISTING WINDOW TREATMENT AND PREPARE FOR NEW PAINT
18. REMOVE ALL EXISTING EXTERIOR RAISED PANEL TRIM AND PREPARE FOR NEW PAINT
19. REMOVE EXISTING THRESHOLD AND ASPHALT APRON AND PREPARE FOR NEW ADA COMPLIANT THRESHOLD AND CONCRETE APRON.

IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATION. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION, WHERE SPECIFICALLY MENTIONED OR NOT.

N

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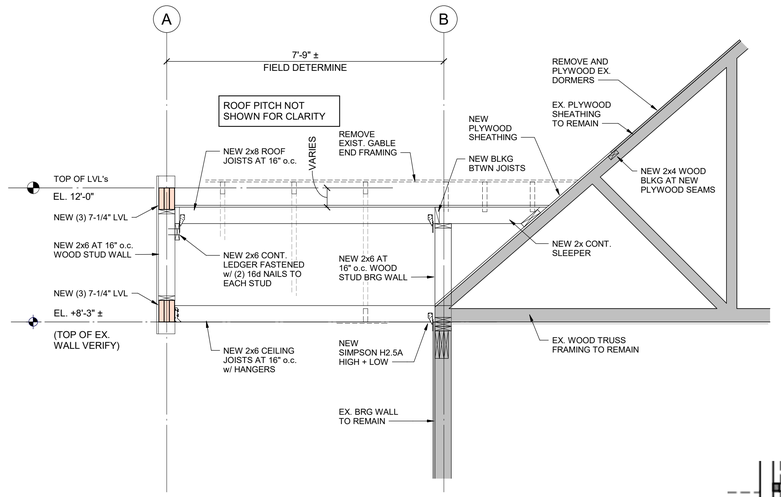
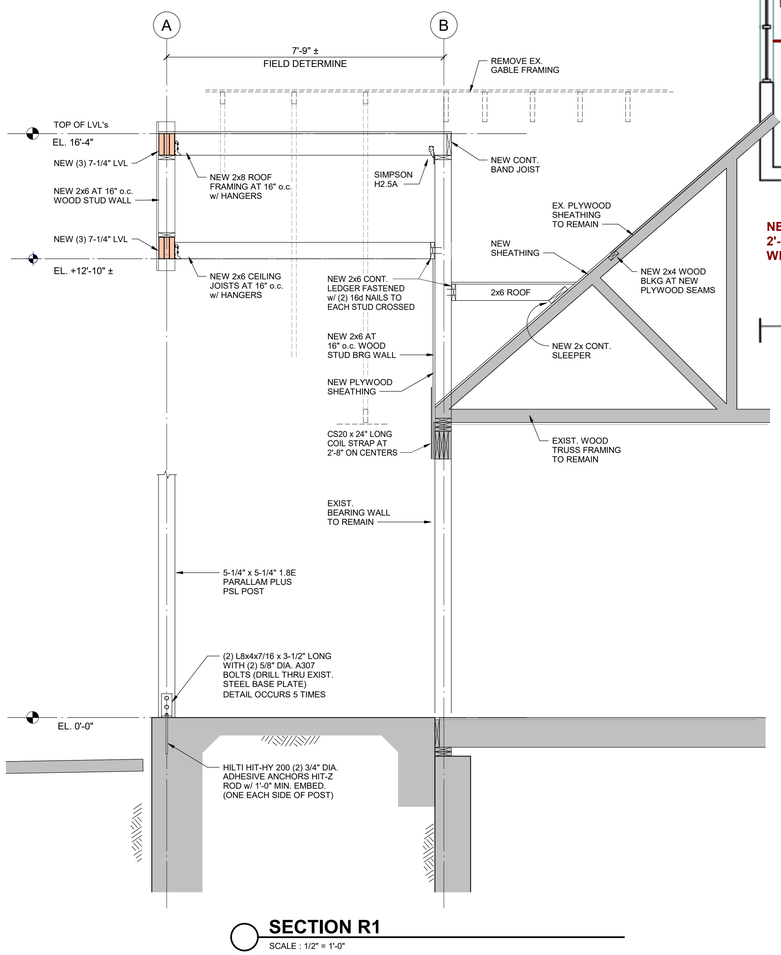
D1.01

Demolition Plan



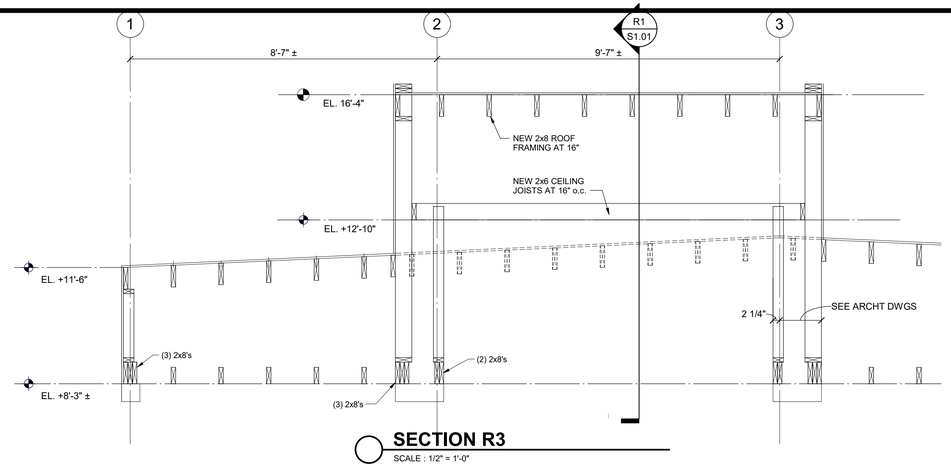
SECTION R2

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



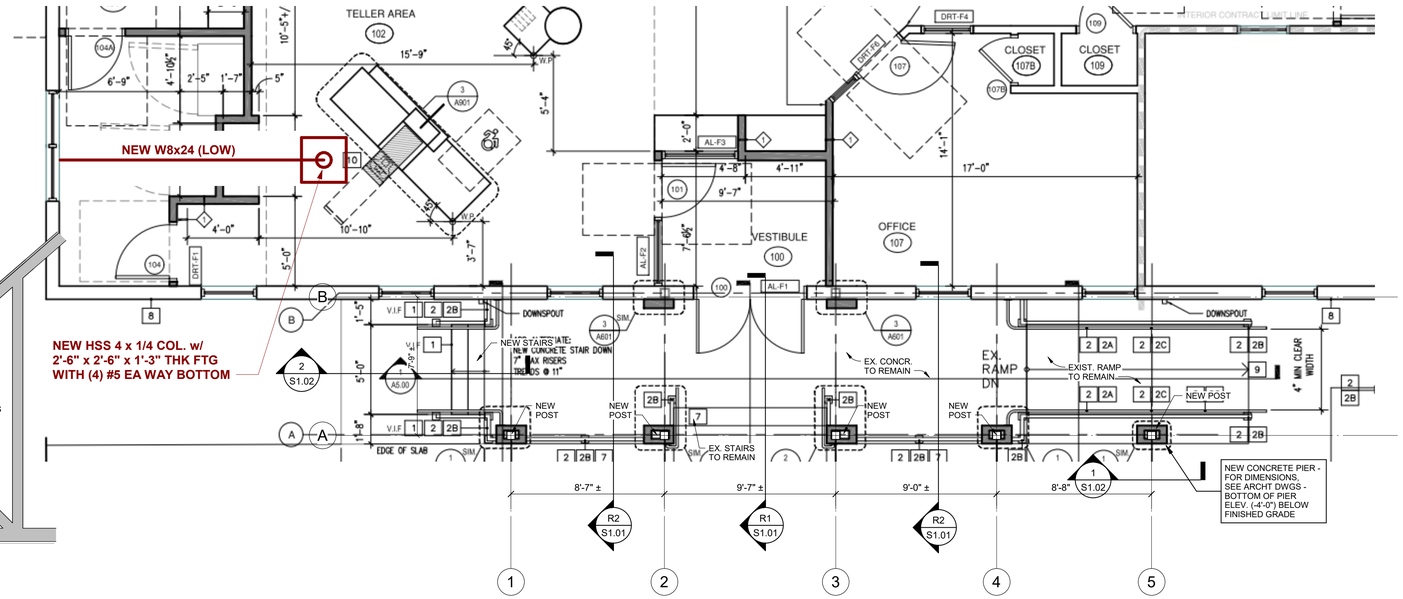
SECTION R1

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



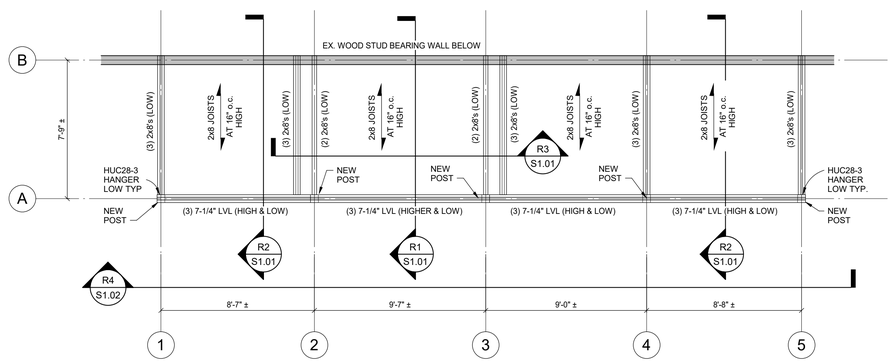
SECTION R3

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



1 MAIN LEVEL FRAMING PLAN

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



2 ROOF FRAMING PLAN

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

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Drawn by:

S1.01

STRUCTURAL FRAMING PLANS

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE NINTH EDITION OF THE MASSACHUSETTS STATE BUILDING CODE WHICH ADOPTS THE 2015 INTERNATIONAL BUILDING CODE (IBC) WITH AMENDMENTS.

2. THE CONTRACTOR SHALL VERIFY ALL DRAWINGS FOR COORDINATION BETWEEN TRADES, AND LOCATE SLOTS, SLEEVES AND TRENCHES AS REQUIRED FOR MECHANICAL TRADES. PROVIDE AND OR INSTALL ANCHORS, INSERTS, HANGERS, ETC. AS REQUIRED FOR VARIOUS TRADES.

3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF CONCRETE REINFORCING STEEL AND STRUCTURAL STEEL FOR REVIEW, BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. SHOP DRAWINGS SHALL BEAR THE REVIEW AND APPROVAL STAMP OF THE CONTRACTOR, IN ACCORDANCE WITH THE GENERAL CONDITIONS.

4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BETWEEN ASSUMED CONDITIONS, ELEVATIONS, ETC. AND THOSE ACTUALLY ENCOUNTERED IN THE FIELD, AND SHALL WAIT FOR INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK.

   THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, ETC. AS MAY BE NECESSARY TO PROTECT THE EXISTING BUILDING DURING THE CONSTRUCTION OF THE NEW WORK. FULL RESPONSIBILITY FOR SUCH PROTECTION, INCLUDING SAFETY, SHALL REMAIN WITH THE CONTRACTOR.

5. FOR TYPES OF FINISHES ON FLOORS, WALLS, AND ROOFS, SEE ARCHITECTURAL DRAWINGS. DEPRESS OR SLOPE SLABS ON GRADE AS REQUIRED BY ARCHITECTURAL DRAWINGS.

FOUNDATION NOTES

1. IN LIEU OF A GEOTECHNICAL EVALUATION FOR THE SHALLOW FOUNDATION SYSTEM, THE MINIMUM ALLOWABLE SOIL PRESSURE IS TAKEN FROM IBC TABLE 1806.2 BASED ON SOIL TYPES (SW, SP, SM, SC, GM AND GC). WHERE THE CLASSIFICATION STRENGTH OR COMPRESSIBILITY OF THE SOIL IS IN DOUBT, THE BUILDING OFFICIAL SHALL BE PERMITTED TO REQUIRE THAT A GEOTECHNICAL INVESTIGATION BE CONDUCTED BY THE OWNER OR OWNER'S BUILDER.

2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SOIL OR COMPACTED STRUCTURAL FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 3000 POUNDS PER SQUARE FOOT. THERE SHALL BE A MINIMUM OF 95% COMPACTION (ASTM D698 STANDARD PROCTOR DENSITY) OF ALL BACKFILL SOIL AROUND NEW FOUNDATIONS.

3. FOUNDATIONS SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND. THE CONTRACTOR SHALL PROVIDE CONTINUOUS CONTROL OF SURFACE AND UNDERGROUND WATER AS REQUIRED DURING CONSTRUCTION SUCH THAT WORK IS DONE IN THE DRY.

4. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, SHEETING, OR LAGGING OF EXCAVATIONS IN ORDER TO PROTECT ADJACENT STRUCTURES (IF ANY) FROM DAMAGE.

5. ALL FOOTINGS SUSCEPTIBLE TO FROST SHALL EXTEND BELOW FINISHED GRADE TO A DEPTH ESTABLISHED BY THE STATE BUILDING CODE OR BY LOCAL JURISDICTION.

6. WHERE FOUNDATION WALLS ARE TO HAVE FILL ON BOTH SIDES, EACH SIDE SHALL BE BACKFILLED CONCURRENTLY, MAINTAINING A BALANCED CONDITION.

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14 AND 301, UNLESS OTHERWISE DETAILED, OR NOTED ON PLAN OR IN SPECIFICATION.

2. ALL CONCRETE SHALL BE NORMAL WEIGHT WITH THE FOLLOWING PROPERTIES:
   a. MINIMUM COMPRESSIVE STRENGTH = **3500** PSI AT 28 DAYS.
   b. AIR-ENTRAINMENT . . . . 6% +/- 1%
   c. MAXIMUM SLUMP . . . . . **4" +/- 1"**

3. SUBMIT MIX DESIGN PROPORTIONS FOR REVIEW PRIOR TO PLACEMENT.

4. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, UNLESS OTHERWISE NOTED. WHEN WELDING OF REINFORCING IS REQUIRED, REBAR SHALL CONFORM TO ASTM A706.

5. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 AND BE FURNISHED IN FLAT SHEETS.

6. REBARS SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS:
   CONCRETE DEPOSITED AGAINST GROUND . . . . . 3 IN.
   CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
   FOR #5 BARS OR LARGER . . . . . 2 IN.
   FOR #4 BARS OR SMALLER . . . . 1-1/2 IN.
   CONCRETE NOT EXPOSED TO THE WEATHER OR THE GROUND:
   SLABS AND WALLS . . . . . 3/4 IN.

7. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS, UNLESS OTHERWISE NOTED ON DRAWINGS. REINFORCING STEEL MARKED CONTINUOUS (CONT.) SHALL RUN CONTINUOUSLY AROUND CORNERS AND BE LAPPED **50** x BAR DIAMETERS AT SPLICES, OR HOOKED AT NON-CONTINUOUS ENDS. ALL HOOKS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.

8. DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI-315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".

9. ALL REINFORCEMENT SHALL BE IN PLACE AND SECURED TO THE FORMWORK PRIOR TO CONCRETE PLACEMENT. "WET-SETTING" OF DOWELS INTO CONCRETE IS NOT PERMITTED EXCEPT WHERE SPECIFICALLY SHOWN ON PLAN OR APPROVED BY THE ARCHITECT.

10. CONSTRUCTION JOINTS IN WALLS SHALL BE LOCATED AT THE CONVENIENCE OF THE CONTRACTOR MID-WAY BETWEEN BUTTRESSES, BUT NOT LESS THAN 4'-0" FROM ANY OPENING, EXCEPT WHERE SPECIFICALLY SHOWN ON PLAN OR APPROVED BY THE ARCHITECT. IN NO EVENT SHALL A STRAIGHT RUN LONGER THAN 80'-0" BE PLACED WITHOUT A CONSTRUCTION JOINT.

11. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED IN WALLS, OTHER THAN SHOWN IN DETAIL.

12. ALL KEYWAYS SHALL BE NOMINAL 2" x 4" OR AS NOTED ON THE DRAWING SECURED TO THE FORMWORK PRIOR TO CONCRETE PLACEMENT, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

13. DISCHARGE OF CONCRETE SHALL BE COMPLETED WITHIN 90 MINUTES AFTER THE INTRODUCTION OF MIXING WATER TO THE CEMENT. SEE SPECIFICATION FOR ADDITIONAL GUIDELINES.

WOOD FRAMING NOTES

1. CONVENTIONAL FRAMING LUMBER SHALL BE DRY (19% MAXIMUM MOISTURE CONTENT) DOUGLAS FIR No.2 GRADE OR BETTER WITH A BASE FLEXURAL STRESS VALUE (Fb) = 850 PSI.

2. PROVIDE LAMINATED VENEER LUMBER (LVL) LUMBER HAVING THE FOLLOWING GRADE AND DESIGN VALUES: GRADE = 2.0E, FLEXURAL STRESS (Fb) =2,600 psi, MODULUS OF ELASTICITY (E) = 2,000,000 psi. NAIL EACH LAYER OF MULTIPLE LVL MEMBERS TOGETHER WITH 3 ROWS OF 16d PNEUMATIC NAILS AT 12" o.c.

3. PLYWOOD WALL SHEATHING SHALL NOT BE LESS THAN 19/32" THICK APA RATED EXPOSURE 1, OR BETTER, (5 PLY MIN.). ALL PLYWOOD SHALL BE NAILED WITH 8d FULL ROUND HEAD PNEUMATIC NAILS SPACED AT 4" o.c. AT ALL EDGES AND FIELD-NAILED AT 8" o.c. AT INTERMEDIATE SUPPORTS. DO NOT OVERDRIVE NAILS INTO SHEATHING. NAIL HEADS MAY BE OFFSET. INSTALL PLYWOOD IN EITHER THE HORIZONTAL OR VERTICAL POSITION, SO AS TO MINIMIZE HORIZONTAL SEAMS

4. FABRICATE BUILT-UP MULTI-PLY 2x6 STUD POSTS AND JAMBS WITH 3 ROWS OF 16d PNEUMATIC NAILS AT 5" ON CENTERS STAGGERED. NAIL FROM BOTH SIDES AND NAIL SUCCESSIVE PLIES. FABRICATE CORNERS WITH A MINIMUM OF 3 STUDS SPIKED TOGETHER.

5. DOUBLE TOP PLATES SPLICES SHALL OCCUR DIRECTLY OVER STUDS AND LAPPED 4'-0" MIN., AND CROSS LAPPED AT CORNERS AND INTERSECTIONS WITH OTHER WALLS.

6. ALL METAL FRAMING CONNECTIONS SHALL BE INSTALLED AND FULLY NAILED AS PER MANUFACTURER'S RECOMMENDATIONS.

7. ALL WOOD FRAMED CONNECTIONS SHALL BE NAILED IN ACCORDANCE WITH THE FASTENING SCHEDULE GIVEN IN THE 2015 IBC.

NOTE - RE: DEMOLITION

REFERENCES MADE ON THESE STRUCTURAL DRAWINGS TO DEMOLITION AND / OR REMOVAL OF EXISTING CONSTRUCTION ARE GIVEN FOR THE CONTRACTOR'S CONVENIENCE, AND MUST BE COORDINATED WITH SIMILAR INFORMATION CONTAINED ON THE ARCHITECT'S DEMOLITION DRAWINGS. SUCH REFERENCES ARE NOT INTENDED TO BE ALL-INCLUSIVE OF THE DEMOLITION WORK WHICH MUST BE PERFORMED.

DESIGN CRITERIA - STURBRIDGE, MA

MASSACHUSETTS NINTH EDITION BUILDING CODE BASED ON MODIFIED VERSION OF THE 2015 INTERNATIONAL BUILDING CODE.

MINIMUM UNIFORMLY DISTRIBUTED FLOOR LIVE LOADS :

MAIN FLOOR	100 psf
SECOND FLOOR OFFICES	50 psf

ROOF LOADING DATA

GROUND SNOW LOAD	Pg = 40 psf (TABLE 1604.11)
MIN. FLAT ROOF SNOW	Pf = 35 psf min. Pf =0.7 Ce Ct I Pg
EXPOSURE CATEGORY	B
BUILDING RISK CATEGORY	II
EXPOSURE FACTOR	Ce = 1.0
IMPORTANCE FACTOR	I = 1.0
THERMAL FACTOR	Ct = 1.0

WIND DESIGN DATA

MWFRS, ASCE 7-10, Chapter 27, DIRECTIONAL PROCEDURE
PART 1: ENCLOSED BUILDING OF ALL HEIGHTS

BASIC WIND SPEED FOR THE TOWN OF STURBRIDGE, MA
RISK CATEGORY II
V_{ULT} = **124** mph (TABLE 1604.11)
V_{ASD} = **96** mph
EXPOSURE CATEGORY B

COMPONENTS AND CLADDING (C&C)
ASCE 7-10, Chapter 30, PART 1: LOW-RISE BUILDINGS

EARTHQUAKE DESIGN DATA

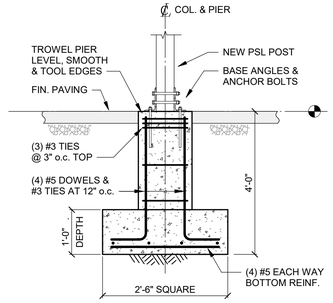
ASCE 7-10/ IBC 2015 EQUIVALENT LATERAL FORCE PROCEDURE
BUILDING RISK CATEGORY II
SEISMIC IMPORTANCE FACTOR I = 1.0
SITE SOIL PROFILE CLASS D (IN ABSENCE OF GEOTECHNICAL)
MAXIMUM CONSIDERED EARTHQUAKE (MCE)
SPECTRAL RESPONSE ACCELERATION PARAMETERS (TABLE 1604.11)
Ss = 0.173 (AT SHORT PERIOD)
S1 = 0.064 (AT A PERIOD OF 1 s)
Fa = 1.6 Fv = 2.4
S_{MS} = 0.276 S_{M1} = 0.154
S_{DS} = 0.184 S_{D1} = 0.103
0.167 < S_{DS} < 0.33 (Short Period Response)
SEISMIC DESIGN CATEGORY = **B** 0.067 ≤ S_{D1} < 0.133 (1-S Period Response)

RESPONSE MODIFICATION COEFFICIENT, **R = 6 1/2**
SYSTEM OVER-STRENGTH FACTOR Wo = 3
DEFLECTION AMPLIFICATION FACTOR Cd = 4

FACTORS BASED ON A LATERAL-FORCE-RESISTING SYSTEM CONSISTING OF LIGHT-FRAMED WOOD WALLS SHEATH WITH PLYWOOD.

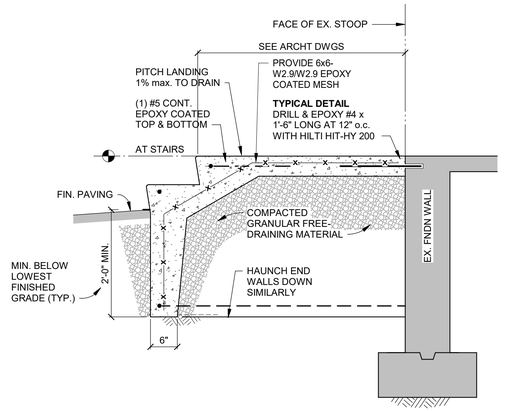
ABBREVIATION LIST

A.B.	ANCHOR BOLT	HORIZ	HORIZONTAL
ADJ	ADJACENT	H.S.	HIGH STRENGTH
ADJUST.	ADJUSTABLE	HT	HEIGHT
AFF	ABOVE FIN. FLR	JT	JOINT
ANCH.	ANCHOR	KB	KNEE BRACE
ARCHT	ARCHITECT	L.P	LOW POINT
B PL	BASE PLATE	LLV	LONG LEG VERT.
BLKG	BLOCKING	LLH	LONG LEG HORIZ.
BLK	BLOCK	LOC.	LOCATION
BM	BEAM	MOM	MOMENT
BOTT.	BOTTOM	MANUF.	MANUFACTURER
BRG	BEARING	MAS	MASONRY
BRDG	BRIDGING	MAX	MAXIMUM
BRK	BRICK	MIN	MINIMUM
B.S.	BOTH SIDES	MECH.	MECHANICAL
BTWN	BETWEEN	NS	NEAR SIDE
BUTTR.	BUTTRESS	NTS	NOT TO SCALE
BYD	BEYOND	O.C.	ON CENTERS
CANT.	CANTILEVER	OPG	OPENING
CLG	CEILING	P/C , PC	PRECAST
CLR	CLEAR	PART'N	PARTITION
COL	COLUMN	PAV.	PAVING
CONN	CONNECTION	PERM.	PERMANENT
COORD	COORDINATE	PL.	PLATE
CONC.	CONCRETE	PJF	PREMOLDED JOINT FILLER
CONSTR.	CONSTRUCTION	PKT	POCKET
CONT.	CONTINUOUS	PROJ.	PROJECTION
CMU	CONC. MAS UNIT	PT	POINT
DBL	DOUBLE	P.T.	PRESSURE TREATED
DEPR	DEPRESSION	REQ'D	REQUIRED
DET.	DETERMINE	RFTR	RAFTER
DIM	DIMENSION	RTU	ROOF TOP UNIT
DIR	DIRECTION	SCHED	SCHEDULE
DN	DOWN	SIM.	SIMILAR
DWL	DOWEL	SJ	SEISMIC JOINT
DWG	DRAWING	SL	SLOPE
DO	DITTO	SPEC	SPECIFICATION
EL. / ELEV	ELEVATION	SDS	SELF DRILLING SCREW
ELEV.	ELEVATOR	STD	STANDARD
E.O.D.	EDGE OF DECK	STGR	STAGGER
E.O.S.	EDGE OF SLAB	STIFF	STIFFENER
EX.	EXISTING	STRUCT	STRUCTURAL
EXP	EXPANSION	T&B	TOP AND BOTTOM
FIN	FINISH	TEMP	TEMPORARY
FLG	FLANGE	T.O.W	TOP OF WALL
FLR	FLOOR	T.O.S	TOP OF STEEL
FNDN	FOUNDATION	TYP	TYPICAL
FP	FIREPROOFING	U.O.N.	UNLESS OTHERWISE NOTED
FTG	FOOTING	U.O.S.	UNLESS OTHERWISE SHOWN
F.V.	FIELD VERIFY	VERT.	VERTICAL
GALV.	GALVANIZED	V.I.F.	VERIFY IN FIELD
GA.	GAUGE	U.O.N.	UNLESS OTHERWISE NOTED
H.P.	HIGH POINT	U.O.S.	UNLESS OTHERWISE SHOWN
HGR	HANGER	w/	WITH
		WF	WIDE FLANGE
		WP	WORKING POINT
		WT	WEIGHT



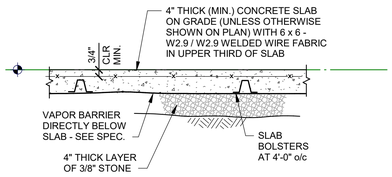
1 TYPICAL PIER DETAIL

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

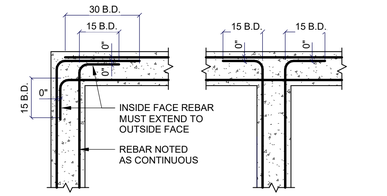


2 SIDEWALK RAMP DETAILS

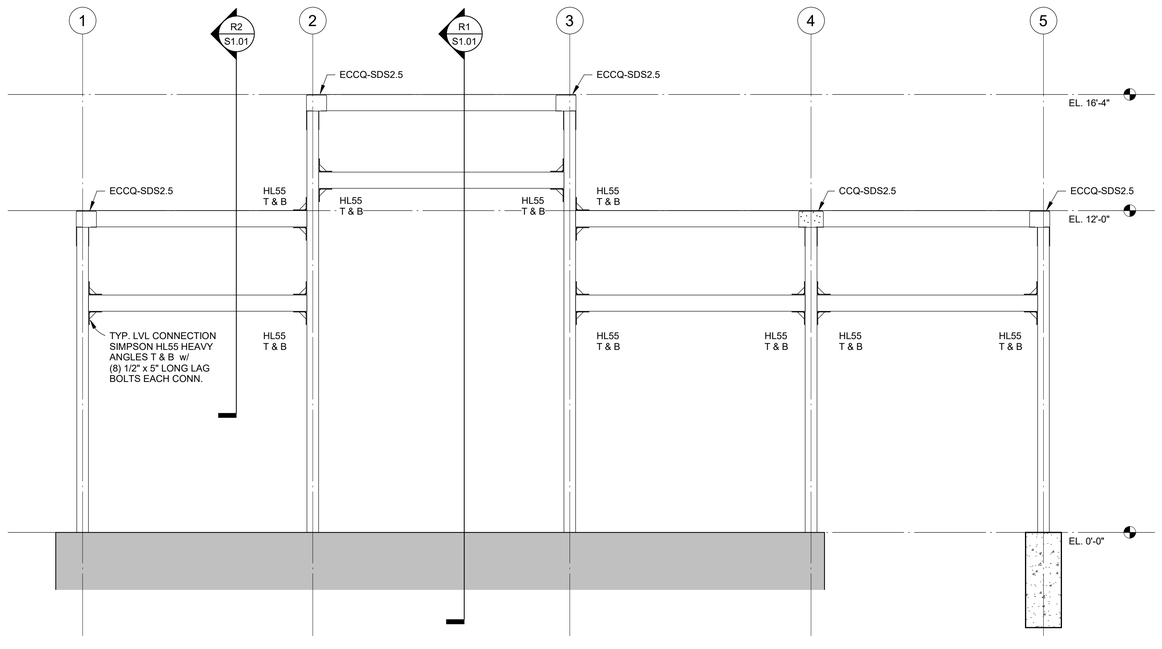
SCALE: 3/4" = 1'-0"



TYPICAL SLAB ON GRADE DETAILS



TYPICAL CONTINUOUS REBAR DETAILS



SECTION R4

SCALE : 3/8" = 1'-0"

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD STURBRIDGE, MA

Issuances:

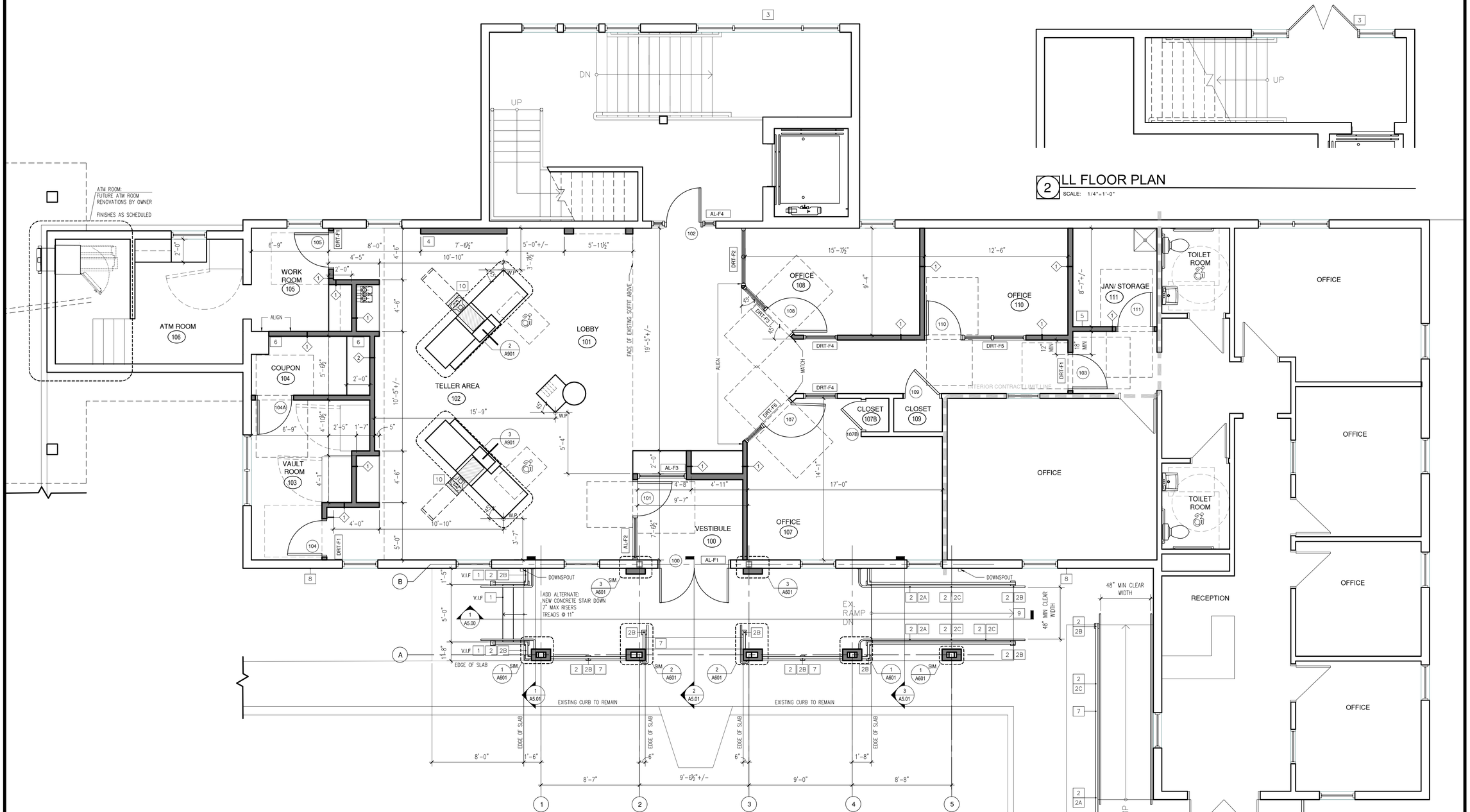
Date: November 30th, 2020

Scale: AS NOTED

Project No. 2K20.015

Drawn by:

S2.01
GENERAL NOTES



2 LL FLOOR PLAN

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

1 ML FLOOR PLAN

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

LEGEND

PROPOSED WALL CONSTRUCTION	
WINDOW TYPE IDENTIFICATION	1
WALL TYPE IDENTIFICATION	1
DIRTT WALL INDENTIFICATION	DRT-F01
DOOR IDENTIFICATION	101
ALUMINUM FRAME INDENTIFICATION	ALF-1

CONSTRUCTION NOTES

1	ADD ALTERNATE: NEW CONCRETE STAIR. MATCH EXISTING RAMP WIDTHS VERIFY DIMENSIONS IN FIELD
2	FEENEY CABLE RAIL KIT: – METAL POST AND CAP RAIL – COMMERCIAL (2-3/8" HEAVY DUTY SQ POST) – 1/8" DIAMETER CABLE – POST AND CAP RAIL COLOR (TEXTURED BLACK) – 1-1/2" O.D ALUMINUM HAND RAILINGS (FINISHED IN BRUSHED ALUMINUM)
2A	FEENEY FASCIA MOUNT RAIL KIT SYSTEM W/ LAG BOLTS
2B	FEENEY BASE PLATE RAIL KIT SYSTEM
2C	FEENEY STANCHION MOUNT RAIL KIT SYSTEM
3	REPAIR ADA COMPLIANT ASPHALT APRON AND REPLACE ADA COMPLIANT EXTERIOR DOOR THRESHOLD
4	PROVIDE WOOD BLOCKING FOR WALL MOUNTED TV MONITOR. COORDINATE LOCATION WITH BRACKET PRIOR TO INSTALLATION.
5	PROVIDE RECESSED MOUNTED FIRE EXTINGUISHER CABINET.
6	COORDINATE WITH STRUCTURAL DRAWINGS FOR SUPPLEMENTARY SUPPORT SUPPLIED AT THESE LOCATIONS
7	PREPARE AND REPAIR ALL LOCATIONS WITH SPALLING CONCRETE
8	PREPARE AND REPAIR WOOD TRIM AS REQUIRED
9	PREPARE AND REPAIR CRACKED AND SPALLING EXISTING CONTROL JOINT AT EXISTING RAMP
10	PROVIDE 8" STEEL PLATE ON FLOOR AT AREAS SHOWN HATCHED. FEATHER PERIMETER EDGE WITH EXISTING FLOOR USING LEVELING COMPOUND.

GENERAL CONSTRUCTION NOTES

A.) GENERAL CONTRACTOR TO NOTIFY ARCHITECT OF ANY INCONSISTENCIES IN THE DRAWINGS, EXISTING CONDITIONS OR THE PROPOSED CONSTRUCTION IMMEDIATELY

B.) GENERAL CONTRACTOR TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL BE HELD RESPONSIBLE FOR THE 'SAME.

C.) ALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF FINISH MATERIAL AND CENTERLINE OF STRUCTURAL STEEL COLUMNS UNLESS OTHERWISE NOTED.

D.) ALL NOTES AND DIMENSIONS DESIGNATED AS "TYP", OR "TYPICAL" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.

E.) FOR WALL TYPES REFER TO DRAWING A0.00

F.) ALL DOORS SHALL BE LOCATED WITH HINGE SIDE OF FRAME 4" OFF FINISHED WALL (AT CORNER CONDITION), UNLESS OTHERWISE NOTED.

G.) GENERAL CONTRACTOR TO COORDINATE AND VERIFY ALL BANK EQUIPMENT INCLUDING ROUGH OPENINGS, POWER AND DATA REQUIREMENTS, ETC WITH EQUIPMENT SUPPLIER AND MANUFACTURER'S SPECIFICATIONS.

IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATION. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION, WHERE SPECIFICALLY MENTIONED OR NOT.

GENERAL CONTRACTOR TO SUBMIT HANDRAIL AND GUARD SHOP DRAWINGS PRIOR TO FABRICATION AND INSTALLATION. THE FABRICATOR IS RESPONSIBLE FOR FIELD VERIFICATION ON ALL HAND RAIL AND GUARD MOUNTINGS AND INSTALLATION CONDITIONS PRIOR TO SUBMISSION TO ARCHITECT. ARCHITECT REVIEW WILL BE FOR COMPLIANCE WITH ARCHITECTURAL INTENT AND BUILDING CODE

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

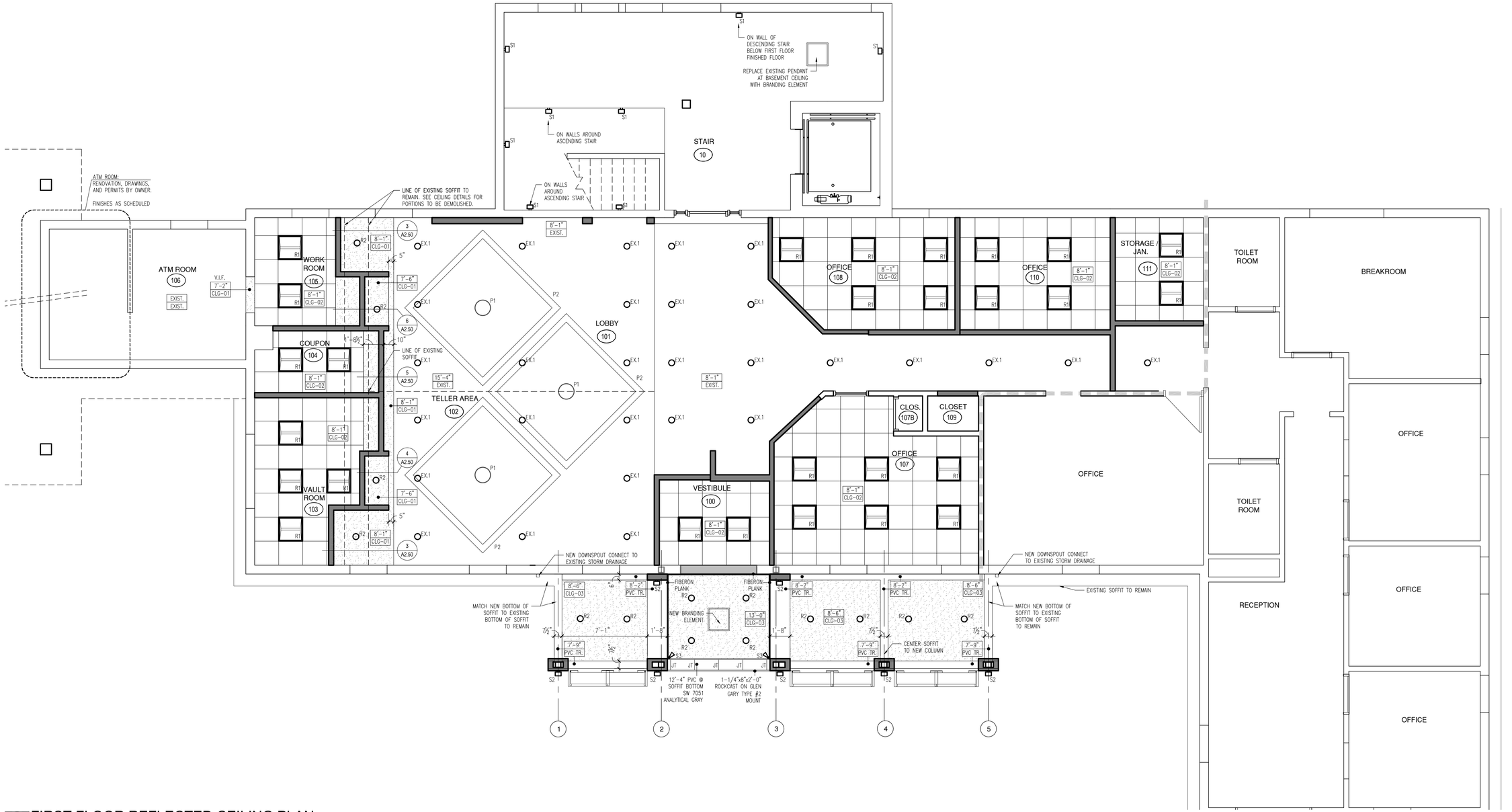
Scale: 1/4"= 1'-0"

Project No. 2K20.015

Drawn by:

A1.01

Floor Plan



1 FIRST FLOOR REFLECTED CEILING PLAN

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

LEGEND

- GYPSUM SOFFIT: CLG-01 REFER TO CEILING PLAN FOR HEIGHTS
- 2'x2' ACOUSTICAL CEILING TILE: CLG-02
- NEW 2X2 TROFFER LED LIGHT FIXTURE — R1
- 5" RECESSED CAN FIXTURES — R2
- NEW PENDANT FIXTURE — P1
- EXISTING CAN FIXTURE TO REMAIN. RETROFIT WITH LED. — EX.
- REPLACE EXISTING WALL SCONCES WITH NEW S* LOCATION FIXTURES IN SAME LOCATIONS. — S1
- POSSIBLE PENDANT LIGHT FIXTURE ALTERNATE HANGING MILLWORK. TBD. — P2, N.T.S.
- HVAC SUPPLY
- HVAC RETURN
- EXIT SIGN
- EXISTING CEILING HEIGHT TO REMAIN — EXIST.
- EXISTING CEILING MATERIAL TO REMAIN — EXIST.
- CEILING HEIGHT — 10'-0"
- CEILING TYPE — CLG-01

GENERAL NOTES

REFLECTED CEILING PLANS ARE INTENDED FOR COORDINATION PURPOSES FOR MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ELEMENTS. REFER TO RESPECTIVE DRAWINGS FOR SPECIFIC REQUIREMENTS.

LIGHT FIXTURE SYMBOLS ON REFLECTED CEILING PLANS ARE DIAGRAMMATIC FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR TYPE OF LIGHT FIXTURES. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR QUANTITY OF LIGHT FIXTURES AS INDICATED ON ELECTRICAL DRAWINGS.

FOR REGISTER AND DIFFUSER SCHEDULES, REFER TO MECHANICAL DRAWINGS. PAINT ALL GYP CEILING SW SW7004 SNOWBOUND

SECURITY INFO. BY OWNER.

FOR DEDUCT ALTERNATE LISTING SEE DWG. A1.01.

LIGHTING

R1	AXIS AURA 22 LED 2X2 LUMINAIRE	
R2	PRESCOLITE– LTR 4RD 5" RECESSED CAN LIGHT	
P1	SCOTT ARCHITECTURAL S2235 SERIES	
P2	AXIS BEAM 6 PENDENT LIGHT	
S1	MODERN FORMS I BEAM WS-94614	
S2	MODERN FORMS ELEVATION WS-W5222	
S3	MP LIGHTING L730	

CEILING TYPES

CLG-1	PAINTED GYPSUM BOARD CEILING. SOUND ATTENUATION BLANKET ABOVE.
CLG-2	ARMSTRONG, DUNE 15/16" ANGLED TEGULAR #1853. 24"x24"x5/8". GRID: 15/16" PRELUDE
CLG-3	AMERICAN GYPSUM, 5/8TH INCH EXTERIOR GYPSUM SHEATHING BOARD

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Reflected Ceiling Plan

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

Project No. 2K20.015

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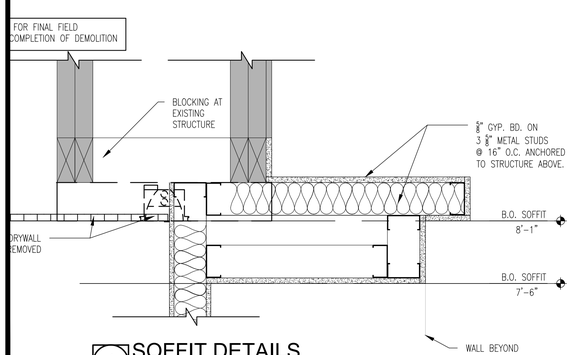
A2.50

CEILING DETAILS

6 SOFFIT DETAILS
SCALE: 1 1/2"=1'-0"

5 SOFFIT DETAILS
SCALE: 1 1/2"=1'-0"



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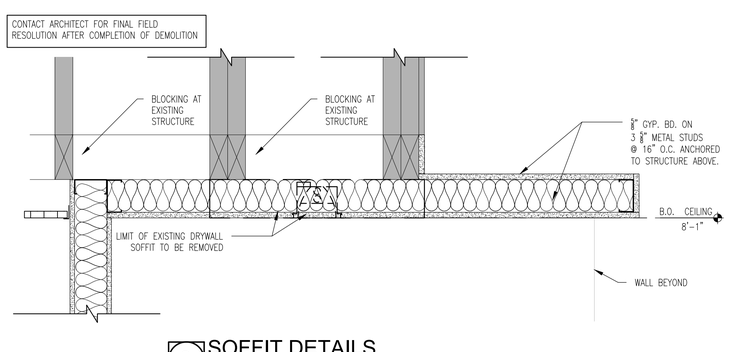
SCALE: NOT TO SCALE



3 SOFFIT DETAILS
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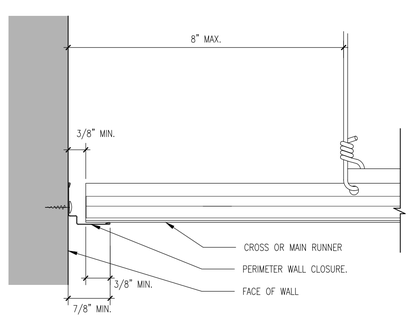

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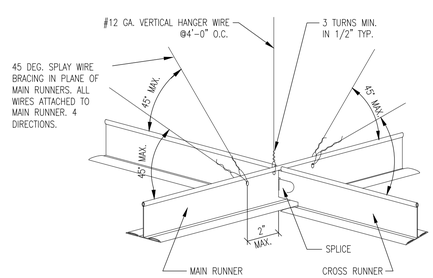

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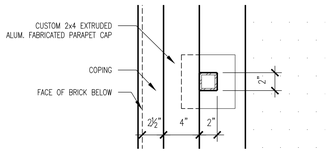
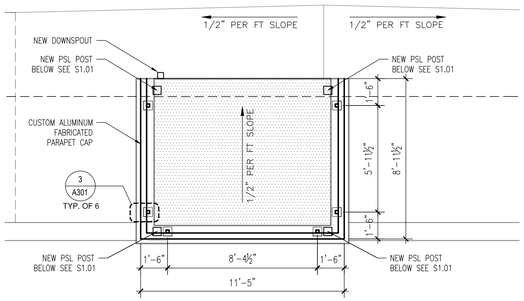


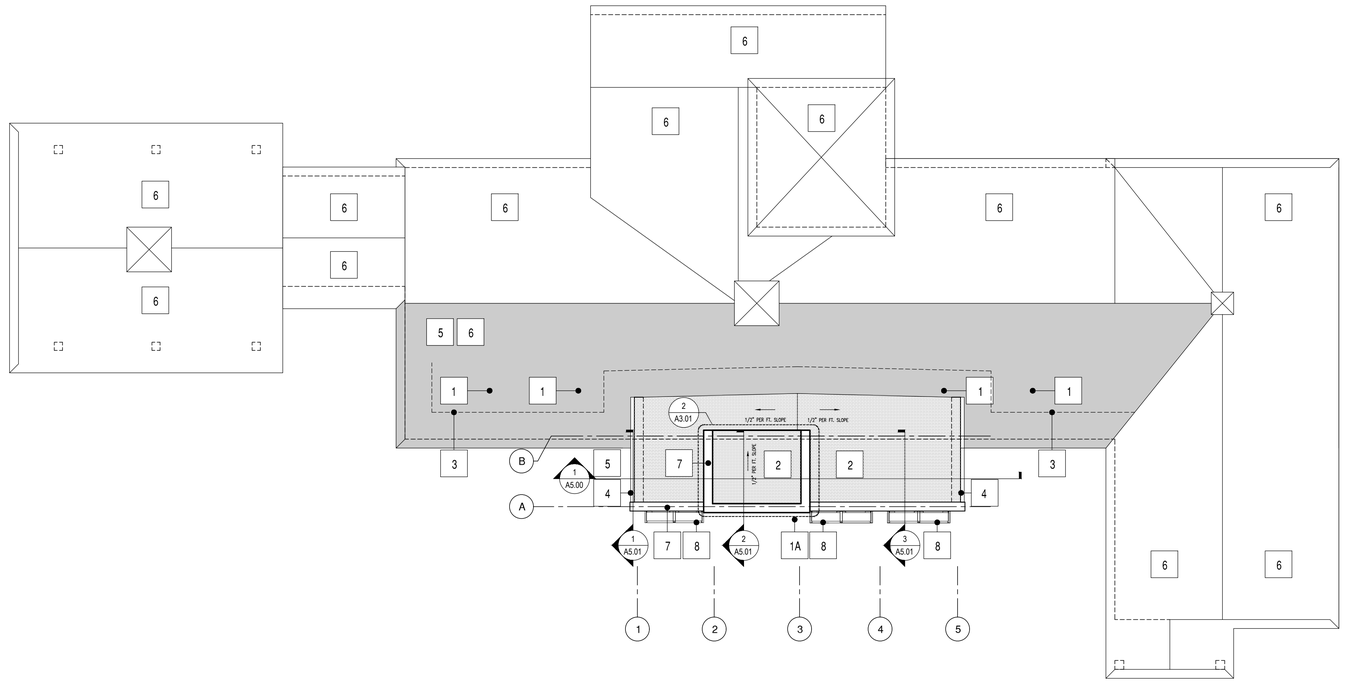
3 ROOF PLAN DETAIL

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



2 ROOF PLAN

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



1 ROOF PLAN

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

LEGEND

- RIGID INSULATION ON TAPERED CONSTRUCTION WITH PITCH TO DRAIN
- RIGID INSULATION ON SLOPED CONSTRUCTION
- BASE BID ARCHITECTURAL SHINGLES
- CRICKET WITH PITCH TO DRAIN
- DS — SCUPPER WITH DOWNSPOUT
- VS — VENT STACK
- SC — THRU WALL SCUPPER
- SPLASH BLOCK

ROOFING TYPE LEGEND

1	REMOVE (4) EXISTING DORMER STRUCTURES. REPAIR EXISTING RAFTERS, PATCH AND MATCH EXISTING SHEATHING, AND PREPARE FOR NEW FINISHES
1A	REMOVE EXISTING GABLE STRUCTURE "OVER BUILD" AND ASSOCIATED COLUMN SUPPORTS. REPAIR FRAMING TO REMAIN AND REPAIR, PATCH AND MATCH NEW SHEATHING TO EXISTING AND PREPARE FOR NEW ROOFING.
2	NEW EPDM ROOFING MEMBRANE
3	NEW 3"-0" CONTINUOUS UNDERLAYMENT: ICE AND WATER SHIELD AT ALL EAVES, RAKES, OVERHANGS AND VALLEYS
4	NEW ALUMINUM GUTTER. CONNECT DOWN SPOUT TO EXISTING STORM WATER SYSTEM

ROOFING TYPE LEGEND

5	BASE BID: VALLEY TO VALLEY: CERTAINTEED: LAND MARK PRO COLOR: RESHAWN SHAKE
6	ADD ALTERNATE: ENTIRE ROOF CERTAINTEED: LAND MARK PRO COLOR:MAX DEF PEWTERWOOD
7	NEW COPED PARAPET
8	ALUMINUM CANOPY SYSTEM : MAPES: CANTILEVER SYSTEM COLOR: SIERRA TAN

ROOFING NOTES

1. ALUMN. COPED AND EDPM PARAPET. INSTALL BLOCKING OVER STRUCTURE OR PARAPET TO ALLOW MINIMUM 8" VERT. FLASHING TO ROOF SURFACE.
2. SEE MECHANICAL DRAWINGS FOR ALL ROOF EQUIPMENT AND ASSOCIATE PLUMBING.
3. COORDINATE ROOF DRAIN'S LOCATIONS AND ASSOCIATED PIPINGS WITH THE STRUCTURAL STEEL BEAM AND WOOD RAFTERS HEIGHTS.
4. CONTRACTOR TO COORDINATE THE MOUNTING SYSTEM AND LOCATIONS OF ROOF MOUNTED FREE STANDING SIGNAGE WITH THE SIGNAGE VENDOR.

ROOFING PRODUCTS

ROOFING PRODUCTS :
BASE BID: VALLEY TO VALLEY:
CERTAINTEED: LAND MARK PRO
COLOR: RESHAWN SHAKE
ADD ALTERNATE: ENTIRE ROOF
CERTAINTEED: LAND MARK PRO
COLOR:MAX DEF PEWTERWOOD

ALUMINUM CANOPY SYSTEM :
MAPES: CANTILEVER SYSTEM
COLOR: SIERRA TAN

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Drawn by:

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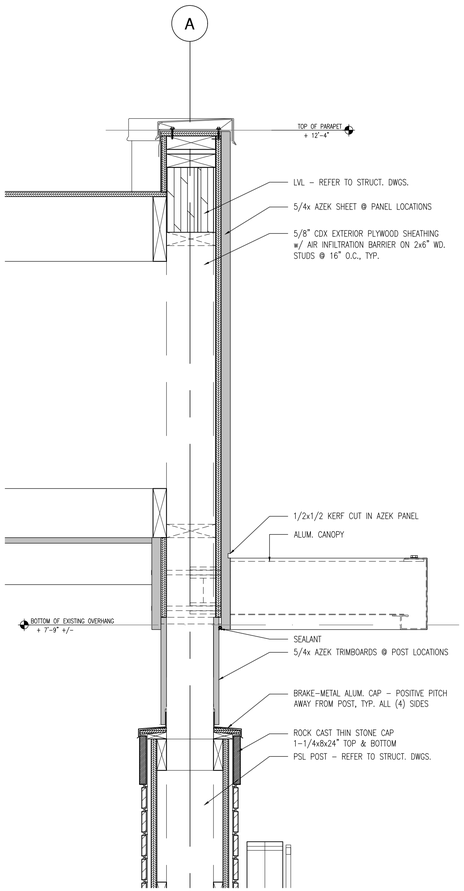
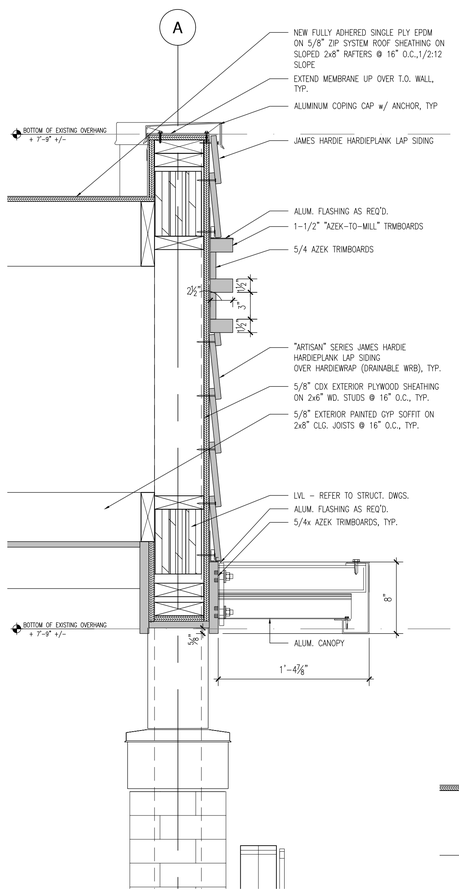
Roof Plan



A SECTION DETAIL
SCALE: 1-1/2"=1'-0"



B SECTION DETAIL
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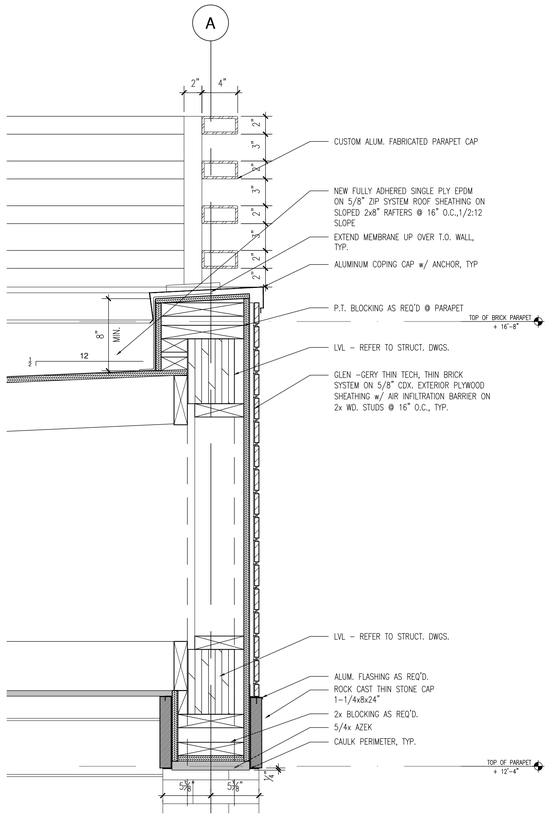

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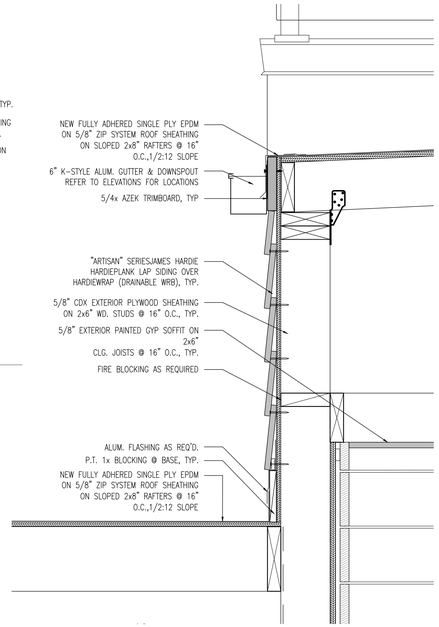

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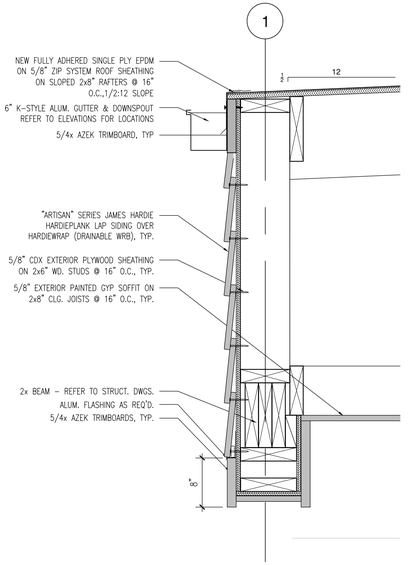

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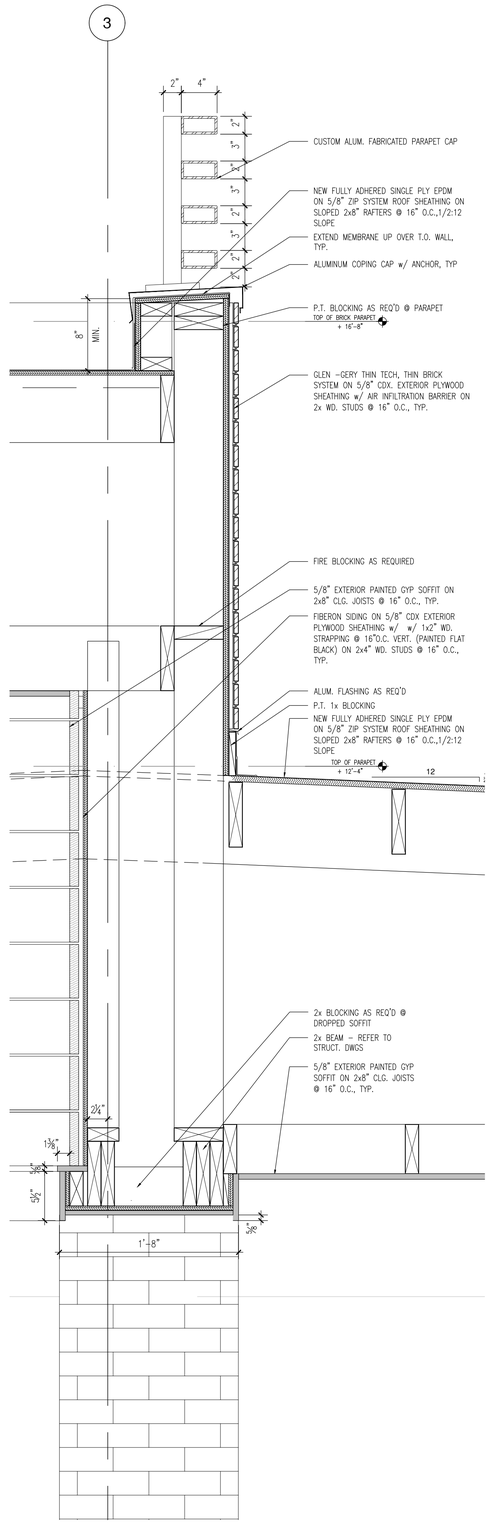

F SECTION DETAIL
SCALE: 1-1/2"=1'-0"

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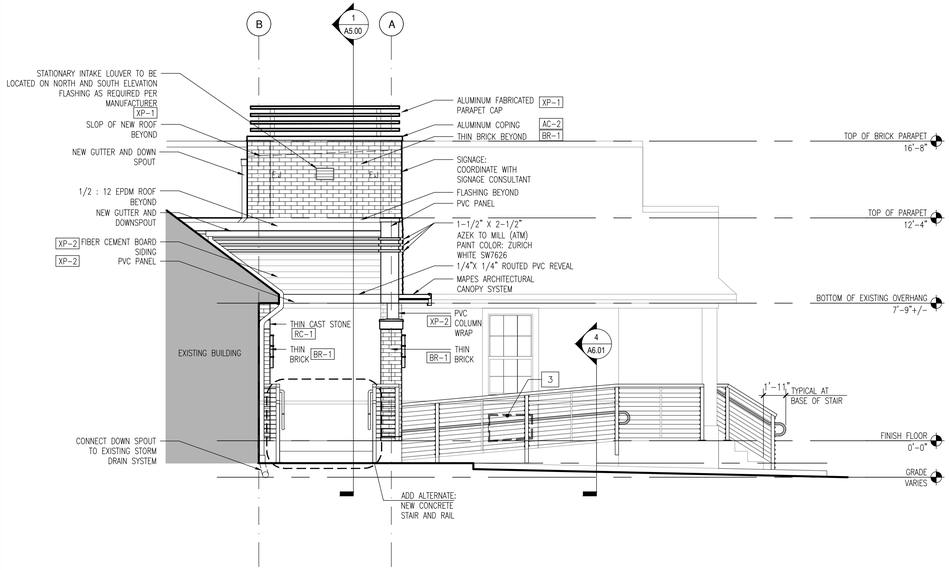
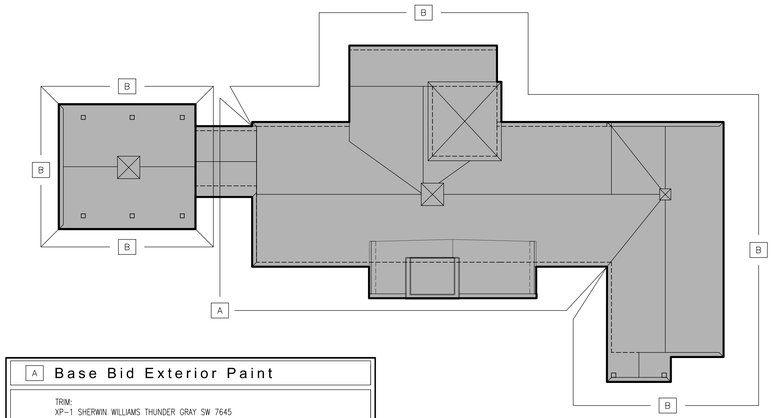
Drawn by: SAK

A3.02
SECTION DETAILS



2 NORTH ELEVATION

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



3 EXTERIOR PAINT SCOPE DIAGRAM

SCALE: 1/16"=1'-0"

A Base Bid Exterior Paint

TRIM:
XP-1 SHERWIN WILLIAMS THUNDER GRAY SW 7645
MAIN BODY AND CLAP BOARD:
XP-2 SHERWIN WILLIAMS ZURICH WHITE SW 7626

B Add Alternate Exterior Paint

INCLUDE PAINTING THE ENTIRE BUILDING AND DRIVE UP CANOPY
REPLACE ALL FLAT PANEL WITH PVC PRIOR TO PAINT

Exterior Products

THIN BRICK : GLEN GERY THIN BRICK –THIN TECH SYSTEM
COLOR : RUSTIC BURGUNDY — BR-1

THIN CAST STONE : ROCKCAST 1 ¼" X 8" X 24"
GLEN-GERY STANDARD CLIP TYPE #2 MOUNT
COLOR : BUFFSTONE — RC-1

STORE FRONT : KAWNEER TRIFAB 601UT FRAMING SYSTEM
2" STOREFRONT THERMALLY IMPROVED SYSTEM
COLOR : ANODIZED BRONZE

EXTERIOR CANOPY
CAN-1 : MAPES ARCHITECTURAL CANOPIES
CANTILEVER
COLOR SIERRA TAN

PVC SHEATHING, TRIM AND MOULDING:
AZEK BUILDING PRODUCTS.
VARIOUS SHAPES AND SIZES.
PAINT COLOR : SHERWIN WILLIAMS SW7627 ZURICH WHITE — XP-2
PVC 2, TRIM AND MOULDING:(UNDER THIN CAST AT BRICK TOWER)
AZEK BUILDING PRODUCTS.
PAINT COLOR : SHERWIN WILLIAMS SW7051 ANALYTICAL GRAY — XP-3

ALUMINUM COPING: PAC-CLAD ALUMINUM; CONTINOUS CLEAT COPING
W/ SIDING COLOR : WHITE WITH KYNAR 500 FINISH — AC-1
W/ BRICK COLOR: GRAPHITE WITH KYNAR 500 FINISH — AC-2
@ COLUMN: COLOR: GRANITE STEEL KYNAR 500 FINISH — AC-3

FIBER CEMENT SIDING: JAMES HARDIE LAP SIDING COLOR: ARCTIC WHITE
SIZE: 6" SIDING BOARD WITH MITERED CORNER
COLOR: SHERWIN WILLIAMS ZURICH WHITE SW 7626 — XP-2

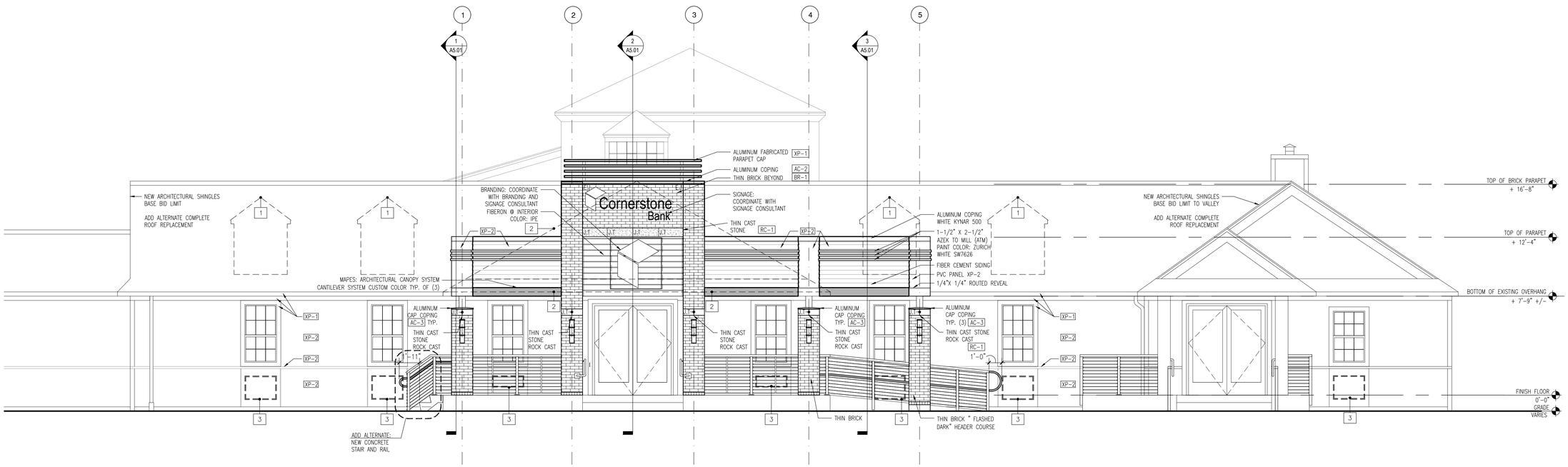
FABRICATED ALUMINUM METAL WORK :
COLOR MATCH SHERWIN WILLIAMS THUNDER GRAY SW: 7645 — XP-1

ROOFING PRODUCTS :
BASE BID: VALLEY TO VALLEY:
CERTAINTEED: LAND MARK PRO
COLOR: RESHAWN SHAKE
ADD ALTERNATE: ENTIRE ROOF
CERTAINTEED: LAND MARK PRO
COLOR:MAX DEF PEWTERWOOD

CLADDING PANELS :FIBERON COMPOSITE PANELS/ PLANKS/ CLADDING
COLOR: IPE

General Elevation Notes:

1. REMOVE (4) EXISTING DORMER STRUCTURES. REPAIR EXISTING RAFTERS, PATCH AND MATCH EXISTING SHEATHING, AND PREPARE FOR NEW FINISHES
2. REMOVE EXISTING GABLE STRUCTURE "OVER BUILD" AND ASSOCIATED COLUMN SUPPORTS. REPAIR FRAMING TO REMAIN AND REPAIR, PATCH AND MATCH NEW SHEATHING TO EXISTING AND PREPARE FOR NEW ROOFING.
3. REMOVE EXISTING RAISED PANEL AND REPAIR EXISTING WITH PVC PANEL. REFER TO DEMO DRAWINGS FOR QUANTITIES. PAINT TO MATCH



1 WEST ELEVATION

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

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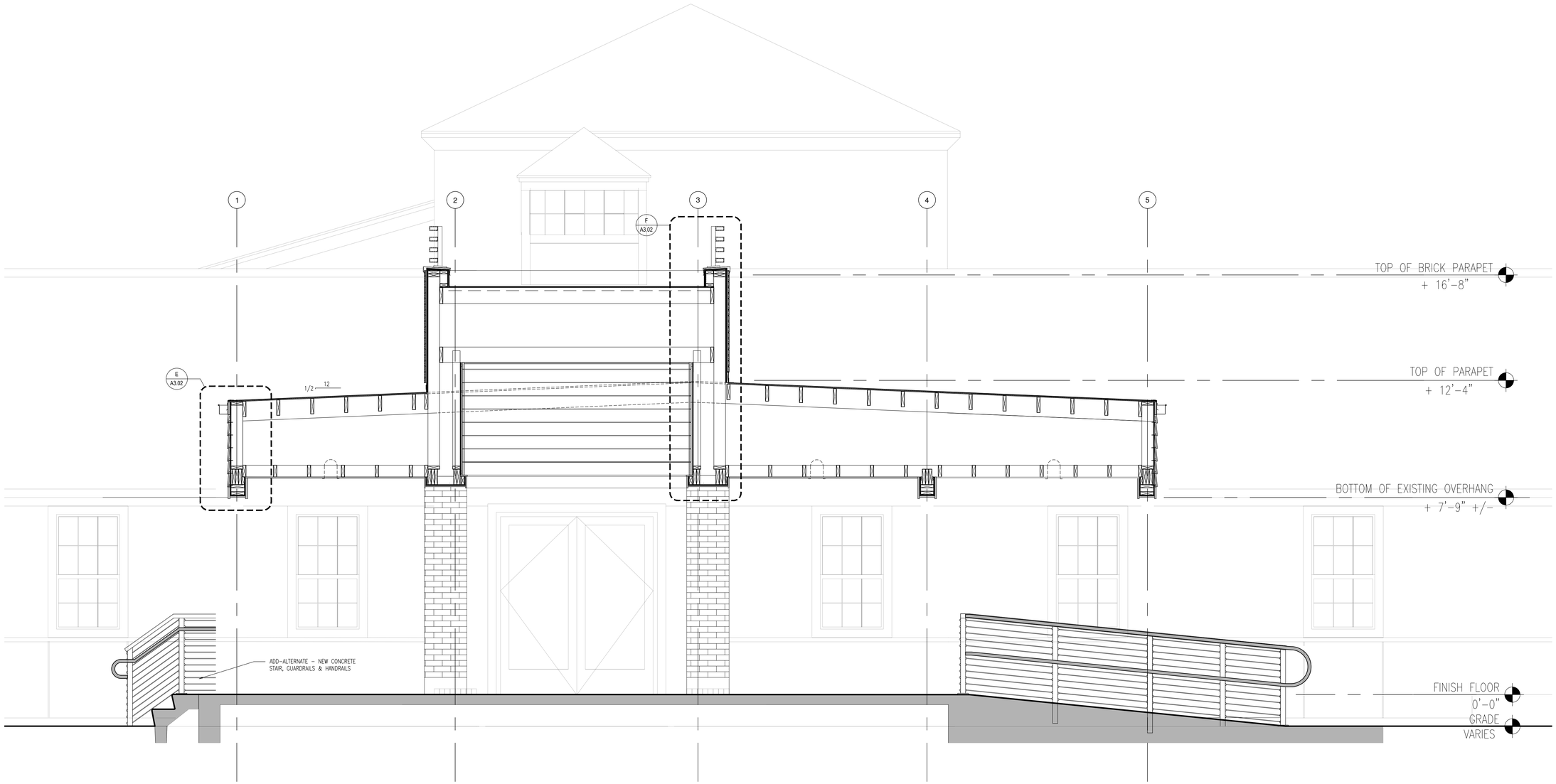
A4.01

Exterior Elevations



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

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RZ Design Associates, Inc.
750 Old Main St.
Suite 202,
Rocky Hill, CT 06067

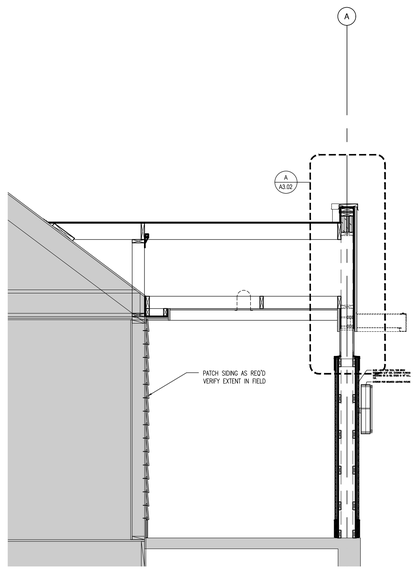
LONG CONSULTING
67 Federal Rd, Building A,
Suite 201
Brookfield, CT 06804

RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

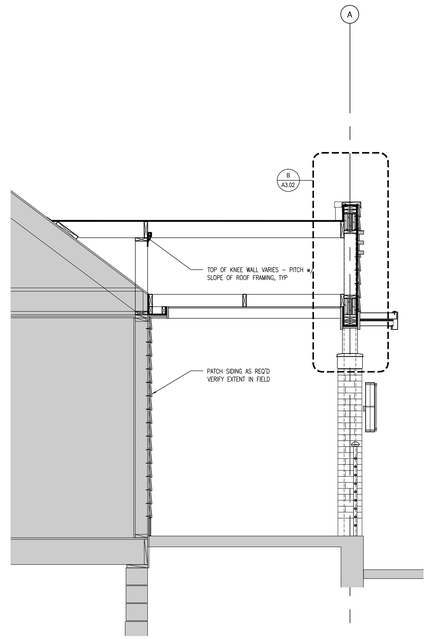
Issuances:

Date: November 30th, 2020
Scale: 1/2"= 1'-0"
Project No. 2K20.015
Drawn by: SA

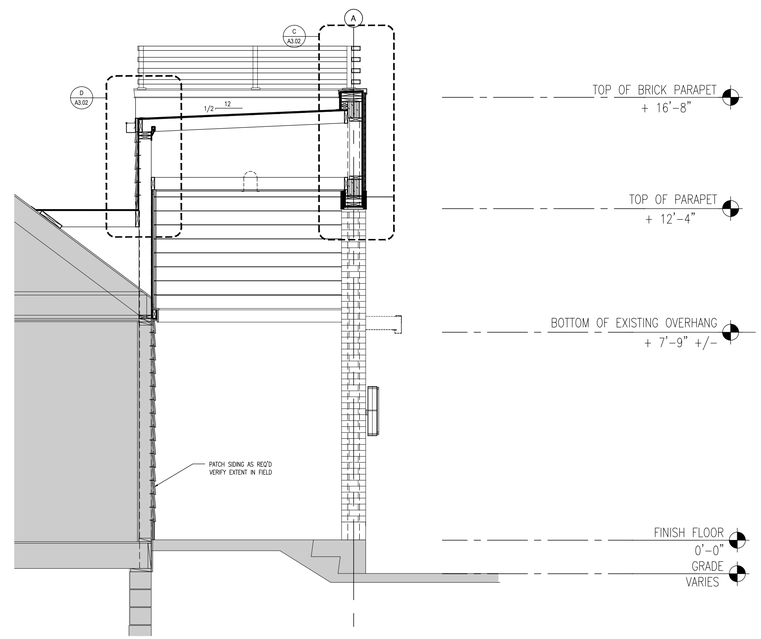
A5.00
SECTION DETAILS



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



2 WALL SECTTION
SCALE: 3/4"=1'-0"



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

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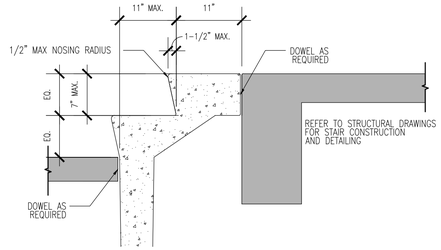
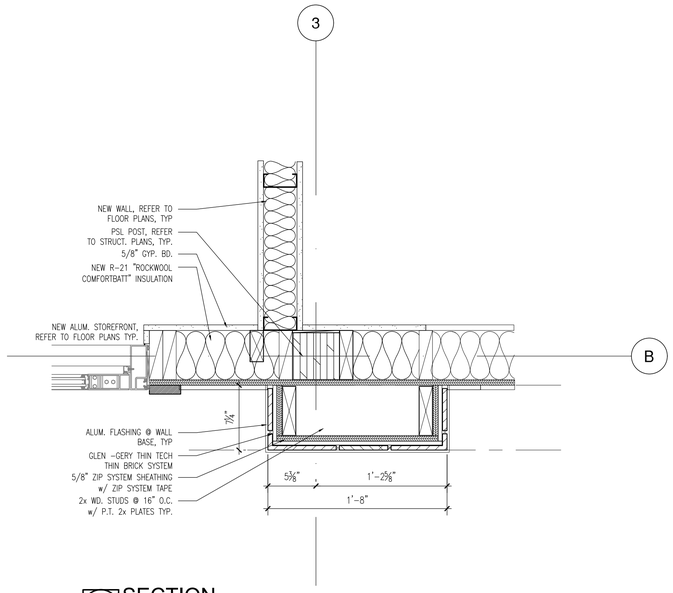
A5.01
SECTION DETAILS



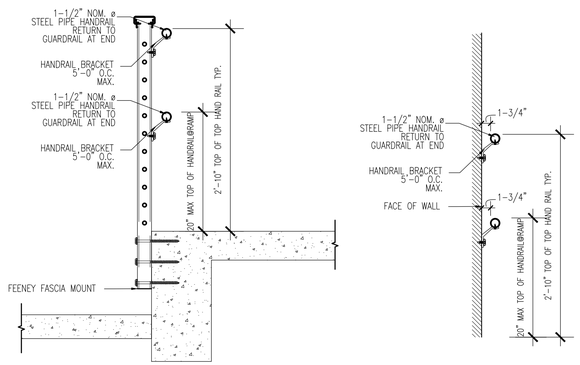
4 GENERIC STAIR AND NOSING DETAIL

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



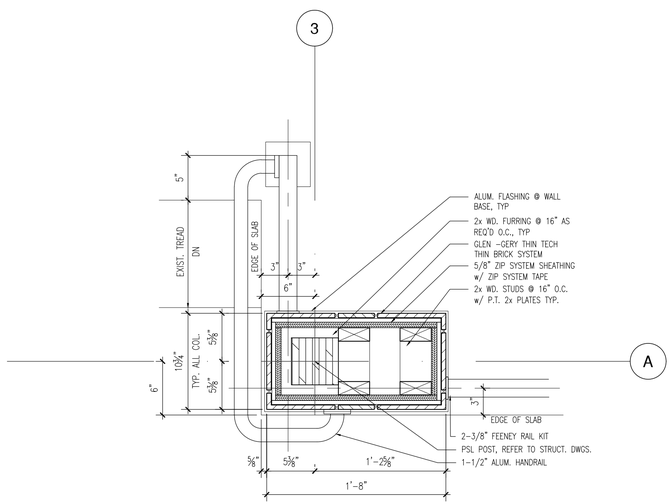
3 SECTION

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



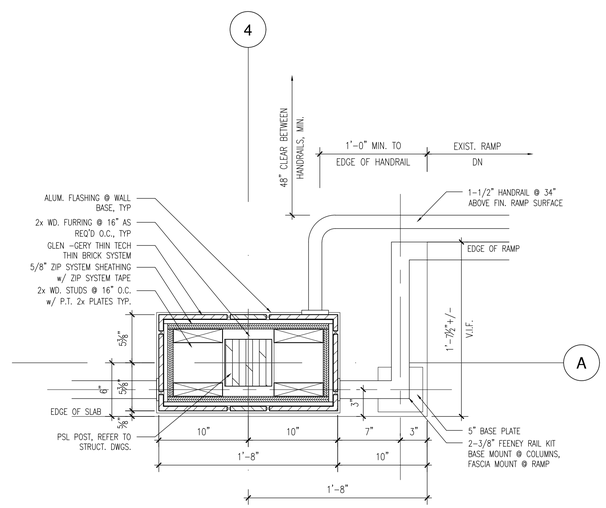
4 RAILING DETAIL AT THE RAMP & STAIR

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



2 SECTION

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



1 SECTION

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

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STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

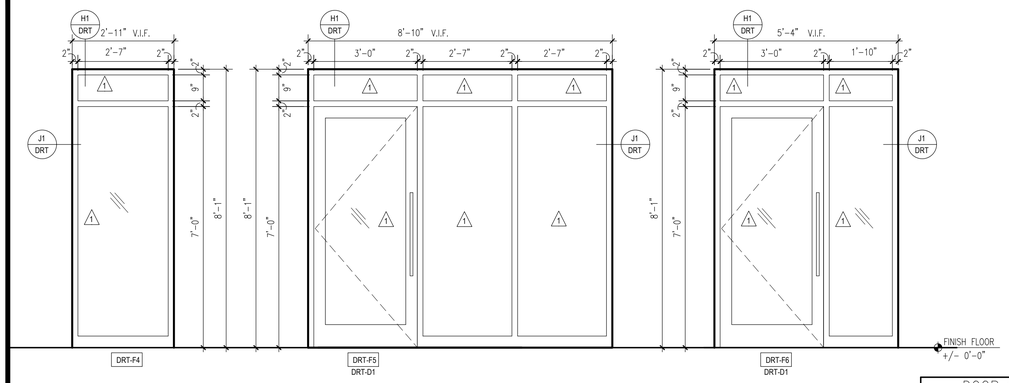
Scale: AS NOTED

Project No. 2K20.015

Drawn by: RJD

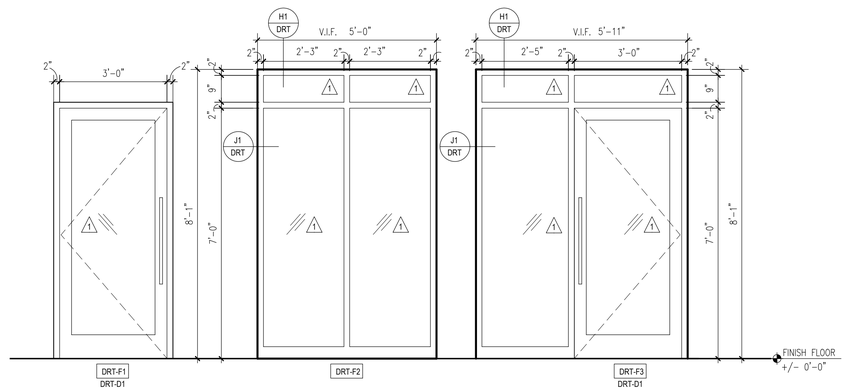
A6.01

LARGE SCALE



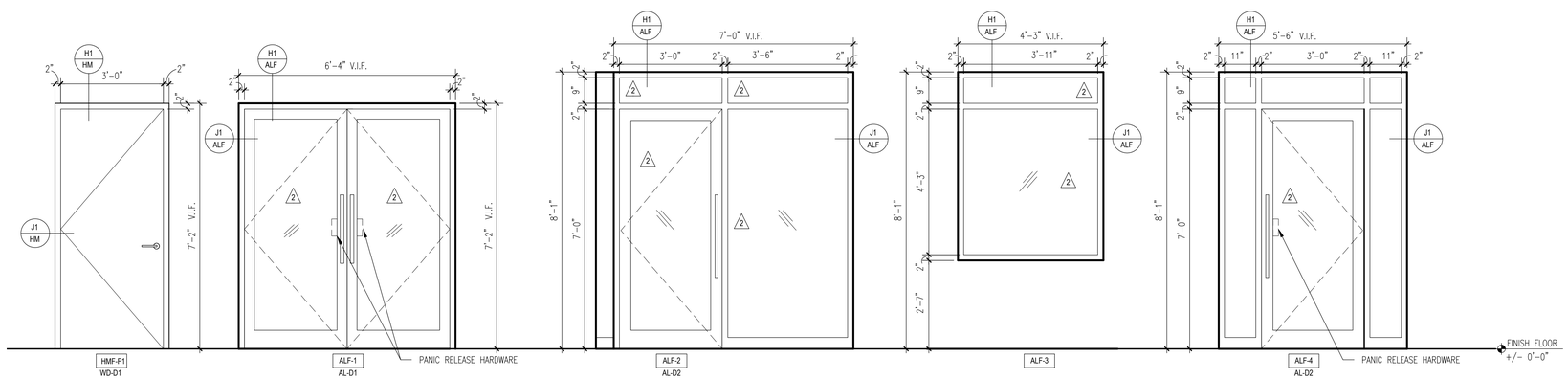
3 DOORS AND DOOR FRAMES ELEVATIONS

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



2 DOORS AND DOOR FRAMES ELEVATIONS

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



1 DOORS AND DOOR FRAMES ELEVATIONS

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

DOOR SCHEDULE

DOOR ID	ROOM NAME	DOOR: MATERIAL - TYPE	DOOR: SIZE (WxH)	FRAME: MATERIAL - TYPE	FRAME: DETAIL NUMBER: HEAD DETAIL (A--)	FRAME: DETAIL NUMBER: JAMB DETAIL (A--)	FRAME: DETAIL NUMBER: SADDLE DETAIL	FIRE RATING: NINETY MINUTE	FIRE RATING: SIXTY MINUTES	FIRE RATING: FORTY FIVE MINUTES	FIRE RATING: TWENTY MINUTES	FIRE RATING: NOT REQUIRED	HARDWARE: FIRECODE REQ.: PANIC RELEASE LATCH	FIRECODE REQ.: POSITIVE LATCHING	FIRECODE REQ.: AUTOMATIC CLOSER	FIRECODE REQ.: ELECTRO-MECH. HOLD	FIRECODE REQ.: DELAYED ACTION CLOSER	FIRECODE REQ.: 180° SWING	ACCESS. REQ.: LEVER HANDLES	ACCESS. REQ.: TACTILE WARNING	ACCESS. REQ.: ACCESSIBLE THRESHOLD	ACCESS. REQ.: KICK PLATE	ACCESS. REQ.: PUSH PLATES	LOCKSET: PRIVACY	LOCKSET: PASSAGE	LOCKSET: OFFICE	LOCKSET: STORAGE	LOCKSET: ENTRY	MISC. HARDWARE: LEVER	MISC. HARDWARE: LADDER STYLE PULLS (NCYCD)	MISC. HARDWARE: DEADBOLTS PADDLE PANIC RELEASE	MISC. HARDWARE: FULL PERIMETER WEATHERSTRIPPING	MISC. HARDWARE: STRIKE	MISC. HARDWARE: SILENCERS	MISC. HARDWARE: CLOSER	MISC. HARDWARE: FLOOR STOP	MISC. HARDWARE: WALL STOP	MISC. HARDWARE: HOLD OPEN	REMARKS
100	VESTIBULE	AL-D1	6'-0" x 7'-0"	AL-F1	--	--	--														●								●	●	●		●				DOUBLE DOOR
101	VESTIBULE	AL-D2	3'-0" x 7'-0"	AL-F2																	●								●	●	●		●				
102	ELEVATOR LOBBY	AL-D2	3'-0" x 7'-0"	AL-F4	--	--	--														●								●	●	●		●				
103	CORRIDOR	DRT-D1	3'-0" x 7'-0"	DRT-F1	--	--	--																		●				●								HAND PRINT LOCK WIRED TO FIRE AND ALARM SYSTEM MUST OPEN FOR EMERGENCY EGRESS
104	VAULT ROOM	DRT-D1	3'-0" x 7'-0"	DRT-F1	--	--	--												●									●			●						HAND PRINT KEY PAD LOCK
104A	COUPON BOOTH	WD-D1	3'-0" x 7'-0"	HMF-F1	--	--	--																	●													
105	WORK ROOM	DRT-D1	3'-0" x 7'-0"	DRT-F1	--	--	--												●					●							●						HAND PRINT KEY PAD LOCK
107	OFFICE	DRT-D3	3'-0" x 7'-0"	DRT-F6	--	--	--																			●				●						DOOR KEYSET 1 W/MASTER
107B	CLOSET	WD-D1	2'-6" x 7'-0"	HMF-F1 SIM.																									●							
108	OFFICE	DRT-D1	3'-0" x 7'-0"	DRT-F3	--	--	--																			●				●						DOOR KEYSET 2
109	CLOSET	WD-D1	3'-0" x 7'-0"	HMF-F1																									●							
110	OFFICE	DRT-D2	3'-0" x 7'-0"	DRT-F5	--	--	--																			●				●						DOOR KEYSET 3
111	JAN/ STORAGE	WD-D1	3'-0" x 7'-0"	HMF-F1	--	--	--																					●		●						

● INDICATES REQUIRED WORK
○ INDICATES EXISTING
⊕ INDICATES REUSE RELOCATED EXISTING

HARDWARE NOTES:

NOTE 1. DOOR HARDWARE FINISH TO BE STAINLESS FINISH
NOTE 2. ALL HARDWARE TO MEET ANSI A156.2 SERIES 400, GRADE 2 AND ANSI A117.1 ACCESSIBILITY CODE.

CONTRACTOR TO COORDINATE AND VERIFY FINAL ALUMINUM AND HOLLOW METAL FRAME DIMENSIONS IN FIELD
COORDINATE FINAL HARDWARE REQUIREMENTS WITH OWNER
COORDINATE KEY FOB SPECS. WITH SECURITY CONTRACTOR

LEGEND

INTERIOR DOORS AND FRAMES (AS NOTED)

MANUFACTURER : CECO DOOR PRODUCTS.
TYPE : HOLLOW METAL FRAME
SERIES : DU-SERIES-SUP ON DRYWALL
SIZES/TYPES : AS INDICATED ON A8.01
FINISH : PAINT. TBD

MANUFACTURER : MASONITE ARCHITECTURAL WOOD DOORS.
TYPE : WOOD DOORS
SIZE : AS NOTED ON A8.01
FINISH :PAINT. TBD

HM-D_	HOLLOW METAL DOOR, PAINTED PT-0X, SEMI-GLOSS FINISH
HM-F_	HOLLOW METAL FRAME, PAINTED PT-1, SEMI-GLOSS FINISH
WD-D_	SOLID CORE WOOD DOOR, MASONITE ARCHITECTURAL, COLOR P1
DRT-F_	DIRTT WALL PARTITION

GLAZING TYPES

1 1/2" CLEAR TEMPERED SAFETY GLAZING
2 INSULATED TEMPERED SAFETY GLAZING

IT IS THE INTENT OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATION. IF AN ITEM OF WORK IS SHOWN ON THE DRAWINGS, IT SHALL BE CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION, WHERE SPECIFICALLY MENTIONED OR NOT.

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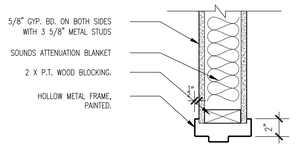
Drawn by: SMN

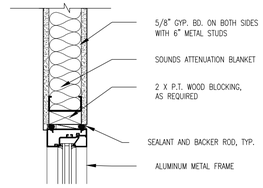
A8.01

Door Schedule

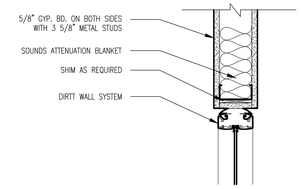
HEAD, JAMB, AND SILL DETAILS



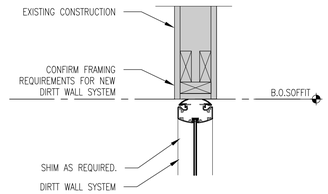
H1 / HMF — HEAD DETAILS
SCALE : 1 1/2" = 1'-0"



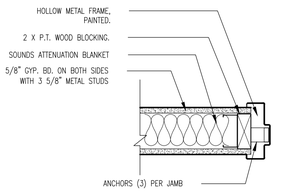
H1 / ALF — HEAD DETAILS
SCALE : 1 1/2" = 1'-0"



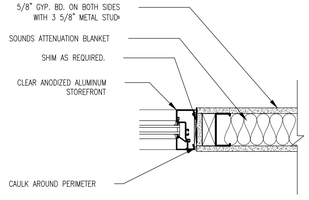
H1 / DRT — HEAD DETAILS
SCALE : 1 1/2" = 1'-0"



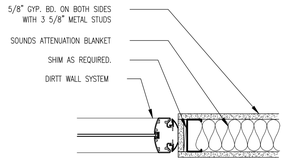
H2 / DRT — HEAD DETAILS
SCALE : 1 1/2" = 1'-0"



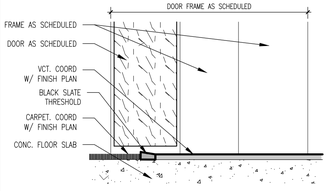
J1 / HMF — JAMB DETAILS
SCALE : 1 1/2" = 1'-0"



J1 / ALF — JAMB DETAILS
SCALE : 1 1/2" = 1'-0"



J1 / DRT — HEAD DETAILS
SCALE : 1 1/2" = 1'-0"



T1 — TYP. INTERIOR TRANSITION DETAIL
SCALE : 6" = 1'-0"

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Issuances:

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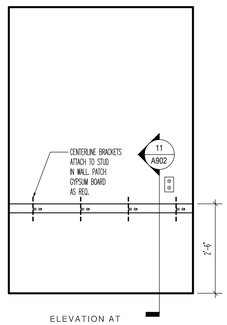
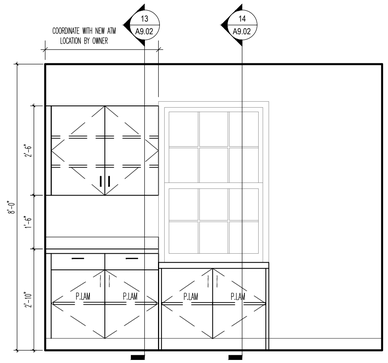
Drawn by: SMN

A8.02

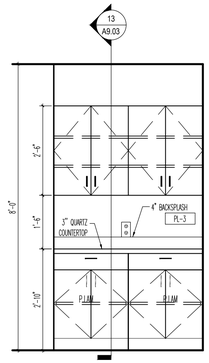
Door Schedule



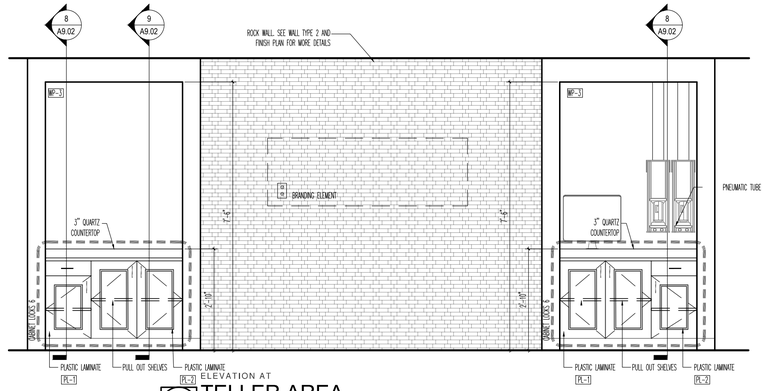
ELEVATION AT
14 COUPON ROOM
SCALE: 1/2"=1'-0"



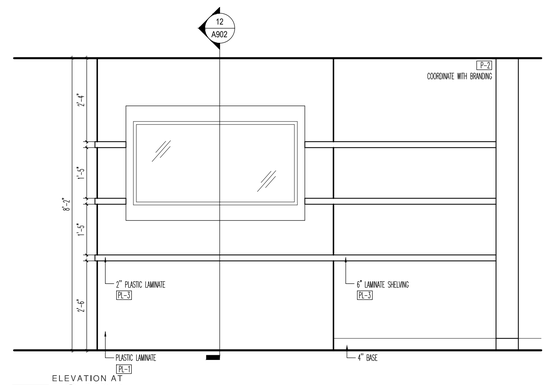
ELEVATION AT
13 ATM ROOM
SCALE: 1/2"=1'-0"



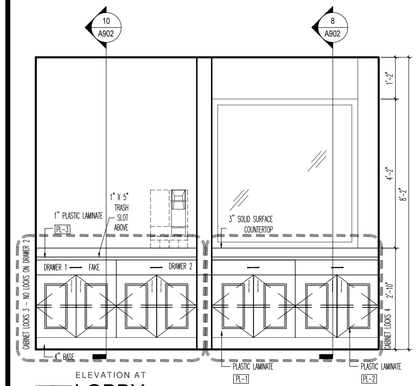
ELEVATION AT
12 WORK ROOM
SCALE: 1/2"=1'-0"



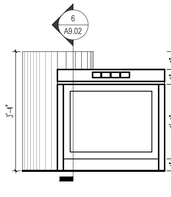
ELEVATION AT
11 TELLER AREA
SCALE: 1/2"=1'-0"



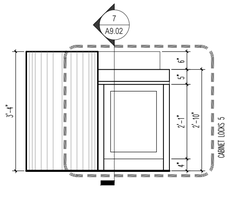
ELEVATION AT
10 LOBBY
SCALE: 1/2"=1'-0"



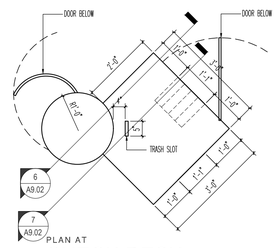
ELEVATION AT
9 LOBBY
SCALE: 1/2"=1'-0"



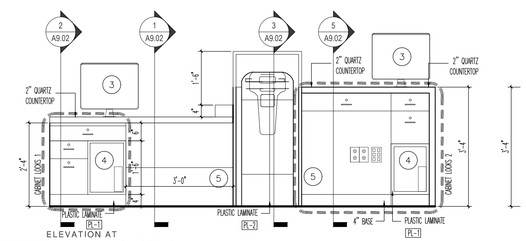
ELEVATION AT
8 CHECK DESK
SCALE: 1/2"=1'-0"



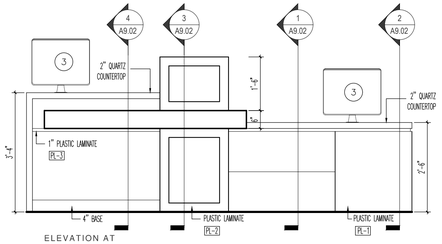
ELEVATION AT
7 CHECK DESK
SCALE: 1/2"=1'-0"



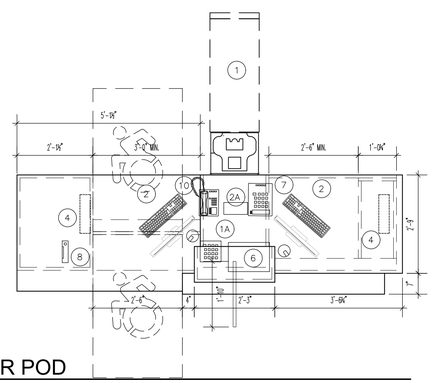
PLAN AT
6 CHECK DESK
SCALE: 1/2"=1'-0"



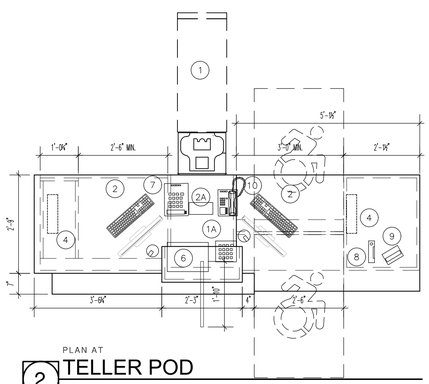
ELEVATION AT
5 TELLER POD
SCALE: 1/2"=1'-0"



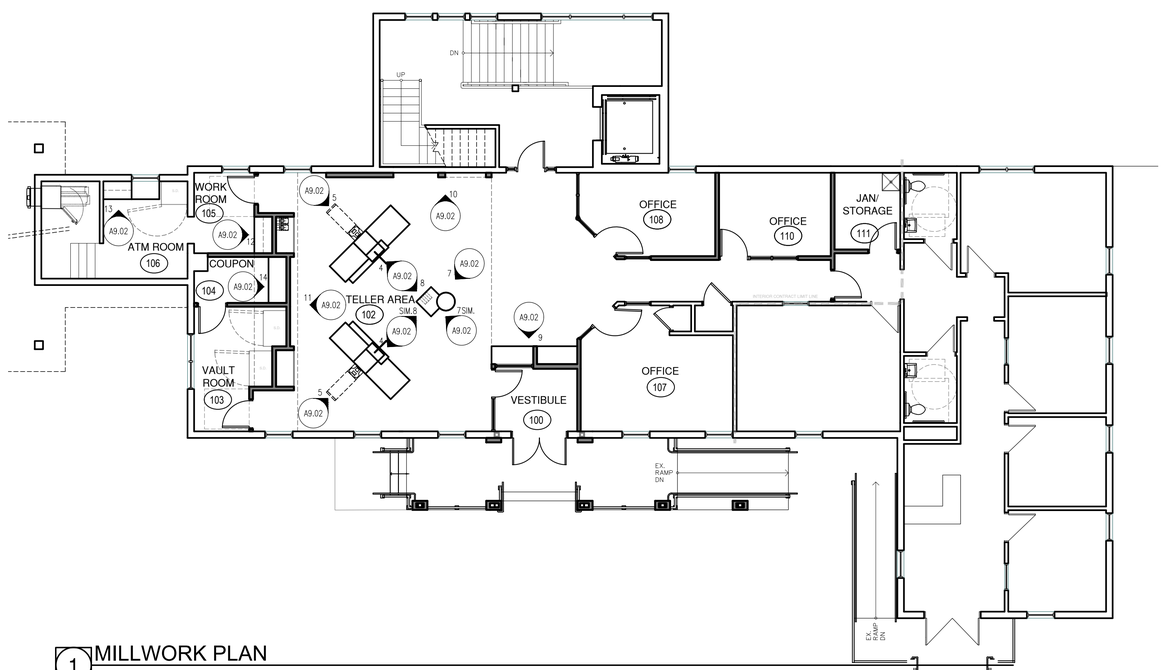
ELEVATION AT
4 TELLER POD
SCALE: 1/2"=1'-0"



PLAN AT
3 TELLER POD
SCALE: 1/2"=1'-0"



PLAN AT
2 TELLER POD
SCALE: 1/2"=1'-0"



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

LEGEND

1	CASH RECYCLER - 1 PER POD	6	RECEIPT PRINTER - CRADEN DP9 - 1 PER POD
1A	CASH RECYCLER KEYPAD - 1 PER POD		
2	CASH DRAWER BELOW - 1 PER TELLER	7	CALCULATOR - 1 PER POD
2A	SLIP HOLDER - 1 PER POD		
3	COMPUTER MONITOR WITH TELLER ARM, KEYBOARD AND MOUSE - 1 PER TELLER (DUAL MONITORS AT OFFICES)	8	DRIVER'S LICENSE SCANNER - 1 PER POD
4	PC BELOW ON BRACKET MOUNTED TO MILLWORK - 1 PER TELLER	9	DEBIT CARD PIN PAD - 1 @ SIT DOWN
5	TRASH RECEPTACLE - UNDER PODS - 1 PER TELLER	10	PHONE - 1 PER POD
	COORDINATE ALL EQUIPMENT WITH OWNER		

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

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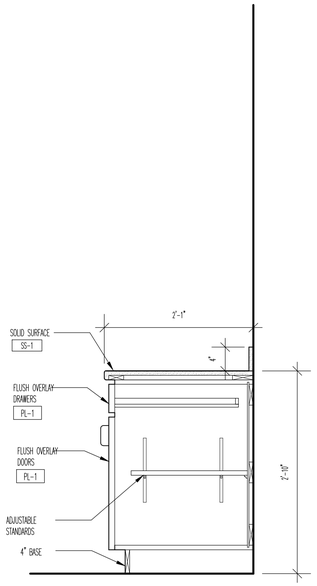
Scale: 1/4"= 1'-0"

Project No. 2K20.015

Drawn by:

A9.01
Millwork Elevations



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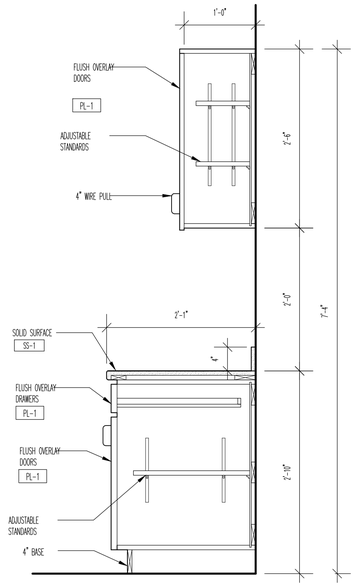

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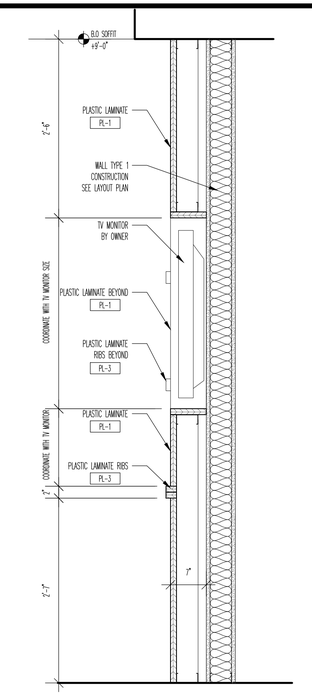

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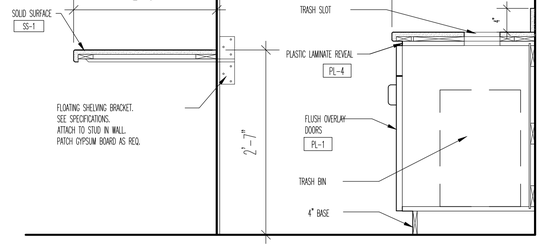

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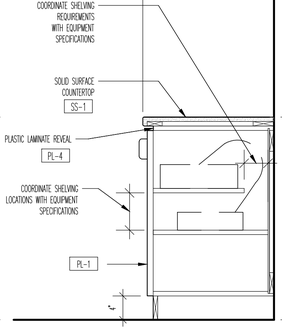
SCALE: 1"=1'-0"

SECTION AT
10 MILLWORK
SCALE: 1"=1'-0"



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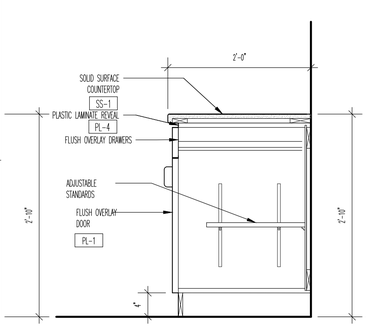

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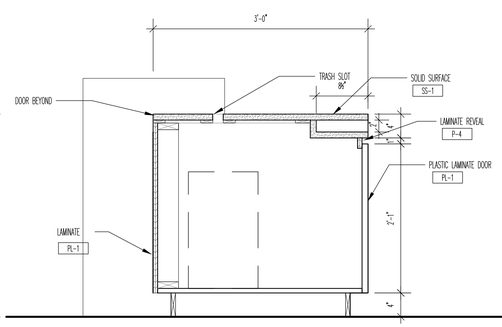

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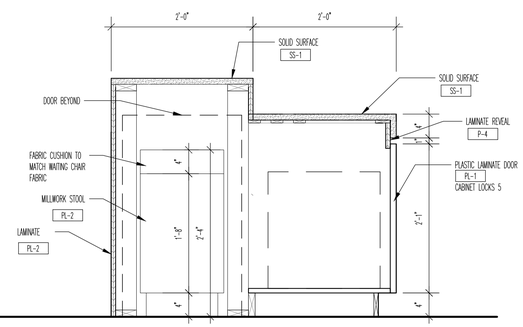

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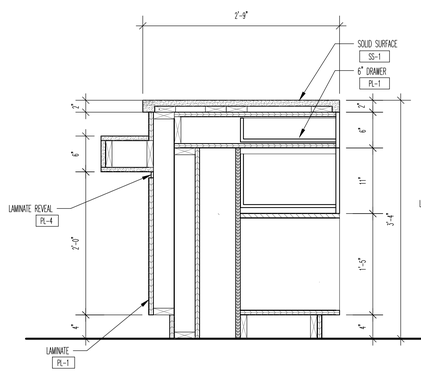

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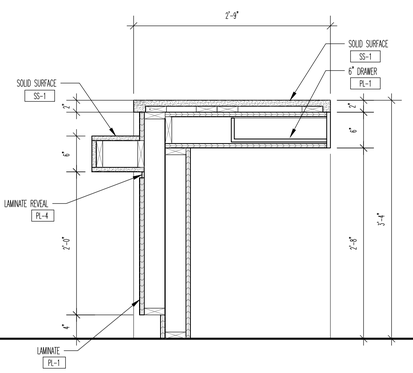

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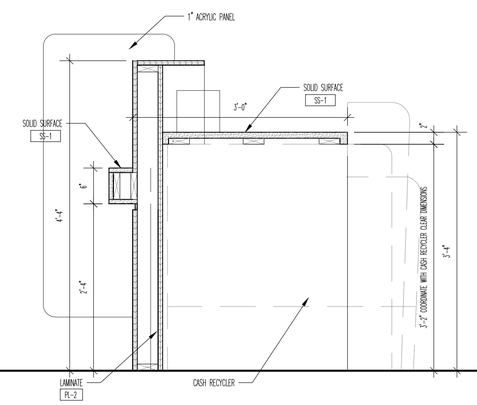

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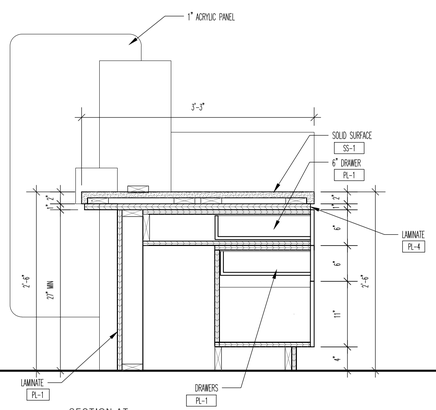

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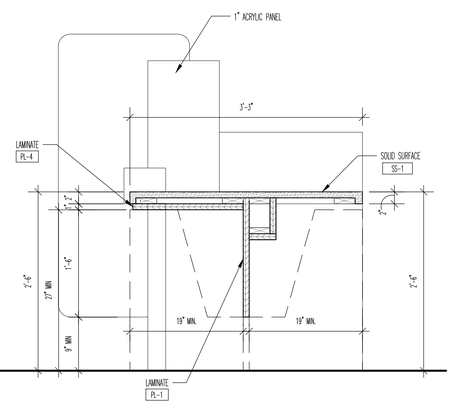

SECTION AT
1 MILLWORK
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Drawn by:

A9.02

Millwork Elevations

1 FURNITURE PLAN- REFERENCE ONLY

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

FURNITURE LEGEND

1	WAITING ROOM CHAIR
2	OCCASIONAL TABLE
3	TASK CHAIR
4	DESK
5	OFFICE TASK CHAIR
6	36" FILE CABINETS
7	GUEST CHAIR
8	PULL-UP CHAIR
9	BREAK ROOM TABLE
10	BREAK ROOM CHAIR

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EQUIPMENT LEGEND

SEE MILLWORK PLAN DRAWINGS FOR ADDITIONAL LOCATIONS

1	CASH RECYCLER (1A) CASH RECYCLER KEYPAD	14	SHRED BIN	15	
2	CASH DRAWER BELOW (2A) SLIP HOLDER	15	COMPUTER WITH DUAL MONITORS	16	
3	COMPUTER MONITOR, KEYBOARD AND MOUSE	16	ALL IN ONE COPIER	17	
4	PC BELOW ON BRACKET MOUNTED TO MILLWORK	17	NIGHT DROP DEPOSIT	18	
5	TRASH RECEPTACLE – UNDER PODS	18	TV MONITOR	19	
6	RECEIPT PRINTER – CRADEN DP9	19	LOCKERS	20	
7	COIN DISPENSER – IN POD DRAWER	20	HOT & COLD WATER DISPENSER	21	
8	DRIVER'S LICENSE SCANNER	21	PNEUMATIC TUBE		
9	DEBIT CARD PIN PAD	22	MICROWAVE		
10	PHONE	23	REFRIGERATOR		
11	CHECK SCANNER	24	COFFEE RACK		
12	CHECK PRINTER	25	COFFEE MACHINE		
12A	COCC PRINTER	26	CUP DISPENSER		
13	SAFE VAULT				

POWER & DATA LEGEND

GROUNDED DUPLEX RECEPTACLE: 5-20R, 18" AFF	⊕
GROUNDED DOUBLE DUPLEX RECEPTACLE: 5-20R, 18" AFF	⊕
GROUNDED DUPLEX RECEPTACLE: 5-20R ABOVE COUNTERTOP	⊕C
QUAD DATA DROP & PORT @ 18"A.F.F.	◭
TV COAXIAL CABLE OUTLET @ 60" A.F.F. OR AS NOTED	△TV
SWITCHES WITH MOTION SENSOR	$M
MOUNTED TELEPHONE OUTLET @ 54" A.F.F.	◭
THERMOSTAT	T

N

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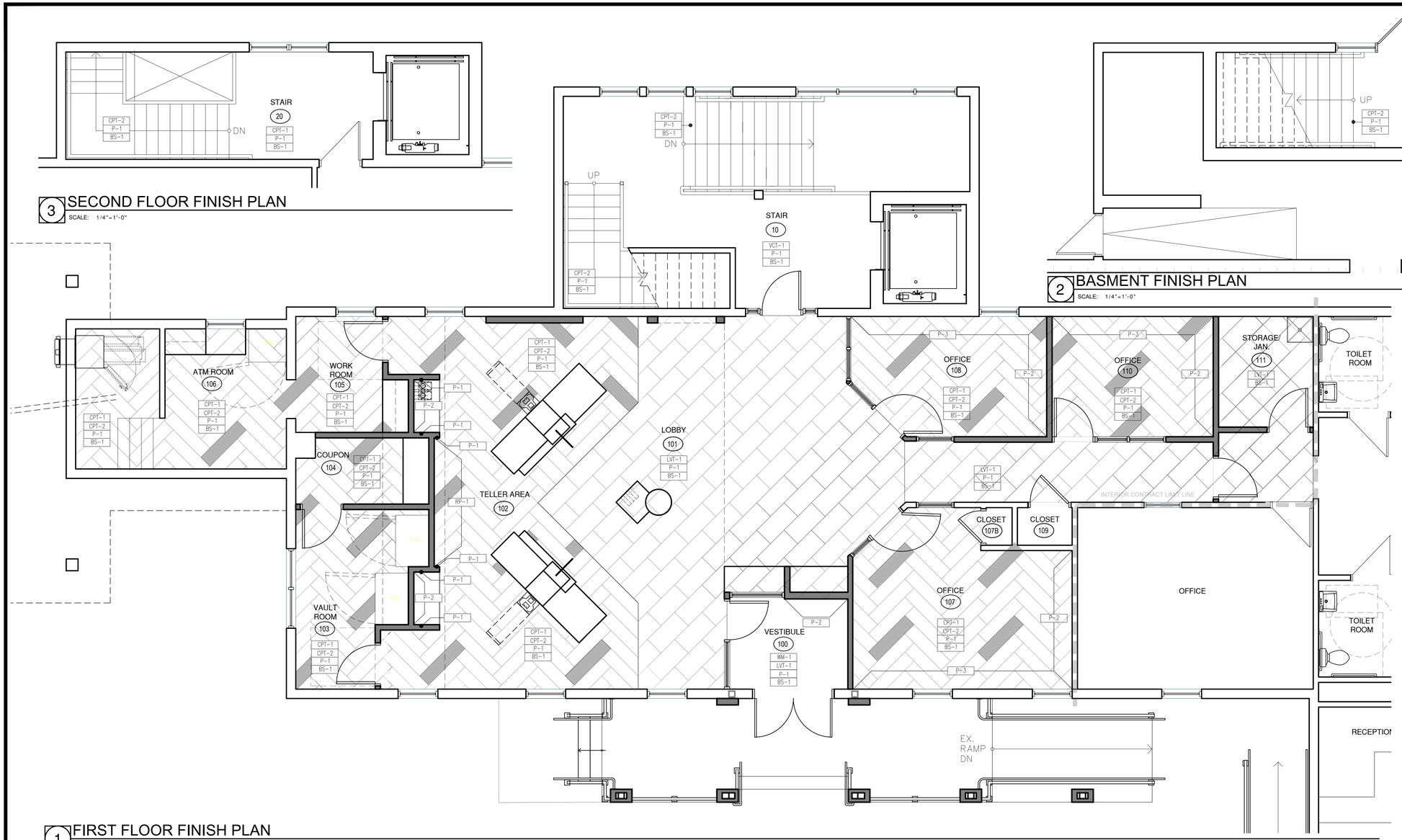
Furniture



3 SECOND FLOOR FINISH PLAN

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

2 BASEMENT FINISH PLAN

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

1 FIRST FLOOR FINISH PLAN

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

FINISH MATERIALS SCHEDULE

SYMBOL	MATERIAL	MANUFACTURER	STYLE/COLOR	REMARKS
BS-1	RUBBER BASE	JOHNSONITE	REVEAL/20 CHARCOAL WG	4" WALL BASE
CPT-1	CARPET TILE	J&J FLOORING GROUP	BOUCLE MODULAR 7081/STRUCTURE 2716	12"X48" CARPET PLANK, HERRINGBONE
CPT-2	CARPET TILE	J&J FLOORING GROUP	PROPEL II (1817)/PITCH 2371	12"X48" CARPET PLANK
LVT-1	LUXURY VINYL TILE	J&J FLOORING GROUP	LEGEND V5010/TALE 1057	18" X 36" LUXURY VINYL PLANK – TRANSITION STRIP NOT NEEDED
WM-1	WALK-OFF MAT	J&J FLOORING GROUP	INCOGNITO 7069/OPERATIVE 1837	24"X24" CARPET TILE, MONOLITHIC
P-1	PAINT	SHERWIN WILLIAMS	SNOWBOUND SW 7004	
P-2	PAINT	SHERWIN WILLIAMS	STOLEN KISS SW 7586	ACCENT WALL
P-3	PAINT	SHERWIN WILLIAMS	USEFUL GRAY SW 7050	
RP-1	ROCK PANEL	NORSTONE	IVORY QUARTZ	6"X24" FIELD UNIT, ACCENT WALL 102
PL-1	PLASTIC LAMINATE	WILSONART	LANDMARK WOOD 7981K-12	MILLWORK LOBBY 101, TELLER 102, WORKROOM 105, ATM 106
PL-2	PLASTIC LAMINATE	WILSONART	PORTICO TEAK 8210K-28	MILLWORK LOBBY 101, TELLER 102
PL-3	PLASTIC LAMINATE	WILSONART	BRITE BRUSHED NATURAL ALUMINUM #6256 (419)	DECORATIVE METALS
PL-4	PLASTIC LAMINATE	FORMICA	NEW BURGUNDY 7966-MATTE FINISH 58	MILLWORK LOBBY 101, TELLER 102
SS-1	SOLID SURFACE	WILSONART	GULFCOAST/923955	COUNTERTOPS LOBBY 101, TELLER 102

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR		BASE	WALLS ALL	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILING	ACCESSORIES CABINET			COUNTER	PULLS	WINDOW	FINISH NOTES
100	VESTIBULE	WM-1	LVT-1	BS-1	P-1			P-2									
101	LOBBY	LVT-1		BS-1	P-1						PL-1	PL-2	PL-4	SS-1			
102	TELLER AREA	CPT-1	CPT-2	BS-1	P-1				P-2		PL-1	PL-2	PL-4	SS-1			
103	VAULT ROOM	CPT-1	CPT-2	BS-1	P-1												
104	COUPON ROOM	CPT-1	CPT-2	BS-1	P-1						PL-1						
105	WORKROOM	CPT-1	CPT-2	BS-1	P-1						PL-1						
106	ATM ROOM	CPT-1	CPT-2	BS-1	P-1						PL-1						
107	OFFICE	CPT-1	CPT-2	BS-1	P-1		P-3	P-2									
107B	CLOSET				P-1												
108	OFFICE	CPT-1	CPT-2	BS-1	P-1		P-3	P-2									
109	CLOSET				P-1												
110	OFFICE	CPT-1	CPT-2	BS-1	P-1		P-3	P-2									
111	IT	SDT-1		BS-1	P-1												

LEGEND

FLOORING PATTERN

CPT-1

LVT-1

MISCELLANEOUS FINISHES

WINDOWSILLS
ALL WINDOWSILLS ARE TO BE SS-1 AT LOBBY AND OFFICES, PL-4 AT WORKROOM/BREAKROOM.

CEILINGS
ALL GYP. CEILINGS TO BE P-1 UNLESS OTHERWISE NOTED.

WINDOW TREATMENT FASCIA

ALL FASCIAS FOR WINDOW SHADES ARE TBD WITH VENDOR

MILLWORK HARDWARE

ALL MILLWORK HARDWARE TO BE BRUSHED ALUMINUM BAR PULLS

FINISH NOTES

1. ALL PAINTED WALLS TO BE A EGGSHELL UNLESS NOTED OTHERWISE.
2. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED P-1, SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE ON DOOR SCHEDULE, A8.01.
3. ALL PAINTED CEILINGS TO BE A FLAT FINISH.
4. SEE ELEVATIONS FOR FOR ADDITIONAL FINISH LOCATION INFORMATION.
5. ALL PLASTIC LAMINATE EXPOSED ENDS TO BE FINISHED.
6. ALL ALUMINUM STOREFRONT TO BE ANODIZED BRONZE IN FINISH
7. WHERE AWG-01 IS LOCATED, WALLS ARE TO BE A LEVEL 5 FINISH, TO RECEIVE GRAPHICS. COORDINATE ALL BRANDING LOCATIONS WITH BRANDING CONSULTANT PRIOR TO APPLYING FINISHES.
8. SEE ELEVATIONS FOR ADDITIONAL FINISH INFORMATION / LOCATION.
9. THRESHOLD – TRIM TILE TO FIT BETWEEN DOOR FRAME
10. ALL DIRTT DOORS AND FRAMES TO BE ANODIZED ALUMINUM – CURVILINEAR PROFILE

GENERAL NOTES

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A10.01

Finish Plan

DEMOLITION NOTES

1. DEMOLITION NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
2. ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
3. AFTER REMOVING PIPING THROUGH FLOOR SLABS, PENETRATIONS SHALL BE PATCHED WITH APPROVED FIRE-RATED MATERIAL.
4. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
5. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
6. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL REMOVE ALL DUCT & PIPING SUPPORTS, ECT. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
8. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERNATION WORK SHALL BE REROUTED CONCEALED BEHIND FINISHED SURFACES.
9. PORTIONS OF PIPING & DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE OWNER.
12. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
13. THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.
14. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE & LOCAL REQUIREMENTS.

GENERAL NOTES

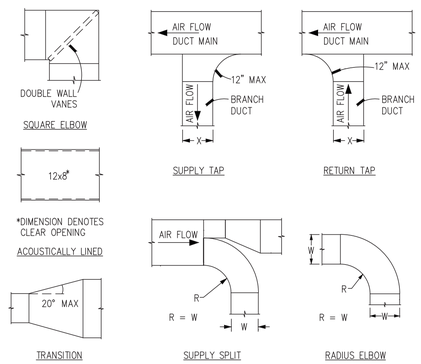
1. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF DUCTWORK AND PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT, DUCTWORK AND PIPING FABRICATION DRAWING APPROVAL.
2. ANY MATERIAL, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
3. DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS, WHERE ACOUSTICALLY LINED DUCT IS SPECIFIED. DUCT DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING.
4. ALL LOW PRESSURE TERMINAL BRANCH DUCTWORK (SUPPLY AND RETURN) SHALL BE PROVIDED WITH VOLUME CONTROL DAMPERS. ALL BRANCH DUCT VOLUME DAMPERS SERVING DIFFUSERS IN GYPSUM BOARD CEILINGS (OTHERWISE INACCESSIBLE) SHALL BE REMOTELY (CORD OR CABLE) OPERABLE THROUGH THE FACE OF THE DIFFUSER.
5. THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, FINISHED PAINT COLOR TO BE SELECTED BY THE ARCHITECT. 48" ABOVE FINISHED FLOOR.
6. WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COIL, ECT, DIFFER FROM THE LINE SIZE PIPING. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
7. PROVIDE ONE THERMOSTAT FOR EACH FAN COIL UNIT, ATTIC VENT AIR FAN UNIT, VAV, FPB, CABINET UNIT HEATER AND ELECTRIC BASEBOARD RADIATION. THERMOSTAT LOCATIONS SHALL BE AS SHOWN ON PLANS AND/OR WHERE DIRECTED AND APPROVED BY THE ARCHITECTS AND ENGINEERS.
8. ALL LINEAR DIFFUSERS ARE TO BE COORDINATED WITH ARCHITECTURAL PLANS FOR EXACT LENGTHS AND LOCATION, ACTIVE PLENUM SECTIONS SHALL BE OF THE SIZES AS SHOWN ON PLANS. EACH BRANCH TAP SERVING THE LINEAR DIFFUSER SHALL BE PROVIDED WITH A VOLUME DAMPER WHICH SHALL BE OPERABLE THROUGH THE DIFFUSER FACE. ACTIVE SUPPLY SECTION OF LINEAR DIFFUSER SHALL BE PROVIDED WITH PATTERN CONTROL DEVICES AND EQUALIZING GRIDS. ACTIVE OR INACTIVE RETURN SECTIONS SHALL NOT BE FURNISHED WITH PATTERN CONTROL OR EQUALIZING GRIDS.
9. BORDER TYPES AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.
10. REFER TO SPECIFICATIONS FOR ACOUSTIC LINING REQUIREMENTS NOT SHOWN ON THE DRAWINGS.
11. ALL PIPING SHALL BE INSTALLED TIGHT TO THE BOTTOM OF STEEL AT ALL TIMES UNLESS OTHERWISE INDICATED OR REQUIRED BY FIELD CONDITIONS.
12. ALL PIPING OF DISSIMILAR MATERIALS SHALL HAVE DIELECTRIC FITTINGS.
13. ALL HVAC EQUIPMENT THAT CONTAINS A COILING COIL OR FUEL FIRED APPLIANCE WILL BE PROVIDED WITH A SECONDARY DRAIN PAN AND A MOISTURE SENSOR THAT WILL AUTOMATICALLY SHUT THE UNIT DOWN WHEN MOISTURE IS DETECTED.

MECHANICAL ABBREVIATIONS

AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
CD-A	DIFFUSER TYPE – REFER TO SCHEDULE
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNITS
CC	COOLING COIL
CD	CONDENSATE PIPING
CFM	CUBIC FEET PER MINUTE
CV	CONSTANT VOLUME
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ER	EXISTING TO REMAIN
ETR	EXISTING TO BE RELOCATED
FC	FAN COIL
FLA	FULL LOAD AMPS
HZ	HERTZ
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MD	MOTORIZED DAMPER
OED	OPEN ENDED DUCT
PC	PUMPED CONDENSATE
PH	PHASE
PSI	POUNDS PER SQUARE INCH
SHC	SENSIBLE COOLING (IN MBH)
SD	SMOKE DETECTOR
TC	TOTAL COOLING (IN MBH)
TYP	TYPICAL
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN

MECHANICAL DUCTWORK SYMBOL LIST

	NEW SUPPLY DUCT
	EXISTING SUPPLY DUCT TO REMAIN
	EXISTING SUPPLY DUCT TO BE REMOVED
	NEW RETURN DUCT
	EXISTING RETURN DUCT TO REMAIN
	EXISTING RETURN DUCT TO BE REMOVED
	ACOUSTICALLY LINED DUCT
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED
E	EXISTING EQUIPMENT TO REMAIN
ETR	EXISTING EQUIPMENT TO BE RELOCATED
18X12	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
18ø	ROUND DUCT DIAMETER
	TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT
	FLEXIBLE CONNECTION
V.D.	VOLUME DAMPER
M	MOTORIZED DAMPER W/DUCT ACCESS DOOR
	SUPPLY REGISTER
	RETURN OR EXHAUST REGISTER OR GRILLE
	SUPPLY CEILING DIFFUSER
	RETURN CEILING GRILLE OR REGISTER
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	ELBOW WITH TURNING VANES
	RADIUS ELBOW
	DUCT SPLIT OR BRANCH TAKEOFF
T	THERMOSTAT – WALL OR DUCT MOUNTED
S	TEMPERATURE SENSOR – WALL OR DUCT MOUNTED
SD	DUCT MOUNTED SMOKE DETECTOR
X	MECHANICAL PLAN NOTE TAG
X	REVISION SYMBOL
	POINT OF NEW CONNECTION TO EXISTING WORK
	REMOVE AND SAFE OFF EXISTING WORK FOR RECONNECTION



1 DUCT FITTING DETAIL

SCALE: NONE

CONDENSING UNIT

UNIT TAG	SERVICE LOCATION	QTY.	TOTAL COOLING	HEATING	OPERATING TEMP RANGE COOLING	OPERATING TEMP RANGE HEATING	#FANS #COMP	REFRIG	WEIGHT	ELECTRICAL DATA MCA	ELECTRICAL DATA VOLTS	ELECTRICAL DATA PHASE	MANUFACTURER MODEL	REMARKS
CU-3	FC-1 GRADE	1	12.0 MBH	–	-40°F– 115°F	–	1 1	R-410A	92 LBS	11	208	1	MITSUBISHI PUY-A12NKA7	NOTES 1-4

NOTES:

1. PROVIDE WITH FACTORY WIRED NEMA 3R DISCONNECT SWITCH.
2. PROVIDE MANUFACTURER WIND BAFFLES FOR LOW AMBIENT COOLING.
3. MOUNT UNIT ON MANUFACTURER SUPPLIED 24" STAND FOR WINTER OPERATION.
4. SIZE REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

INDOOR FAN COIL UNITS

UNIT TAG	LOCATION SERVICE	QTY.	NOM TONS	TOTAL COOLING	HEATING	CFM	SP	REFRIG	ELECTRICAL DATA MCA	ELECTRICAL DATA VOLTS	ELECTRICAL DATA PHASE	MANUFACTURER MODEL	REMARKS
FC-1	WALL ATM RM	1	1.0	12.0 MBH	–	370	–	R-410A	1.00	208	1	MITSUBISHI MSZ-FA06NA	NOTES 1-2

NOTES:

1. PROVIDE WITH MANUFACTURER SIMPLE WALL MOUNTED THERMOSTAT.
2. PROVIDE UNIT WITH MODEL SI30-230 MINI CONDENSATE PUMP OR APPROVED EQUAL.

EXHAUST FAN SCHEDULE

FAN TAG	SERVICE LOCATION	CFM	S.P.	FAN TYPE	FAN RPM	DRIVE	WEIGHT	MOTOR DATA HP	MOTOR DATA VOLTS	MOTOR DATA PH	MOTOR DATA AMPS	MANUFACTURER MODEL	REMARKS
EF-1	JAN/STORAGE CEILING	80	0.25	CENTRIFUGAL	1113	DIRECT	10	–	120	1	0.20	PANACONIC FV-0511VK2	NOTE 1

NOTES:

1. EXHAUST FAN TO BE CONTROLLED BY TIMECLOCK AND OPERATE CONTINUOUSLY ON BUILDING OCCUPANCY SCHEDULE.

DIFFUSERS, REGISTERS, GRILLES

UNIT TAG	SERVICE	MATERIAL FINISH	MANUFACTURER MODEL	REMARKS	UNIT TAG	SERVICE	MATERIAL FINISH	MANUFACTURER MODEL	REMARKS
A	SUPPLY	– –	– –	EXISTING	B	RETURN	– –	– –	EXISTING
C	SUPPLY	STEEL WHITE	HART&COOLEY 210	EXISTING	D	RETURN	STEEL WHITE	HART&CCOLEY 265	EXISTING

NOTES:

1. PROVIDE SIZE INDICATED IN DRAWINGS.

MECHANICAL DRAWING INDEX

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RZ Design Associates, Inc.
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LONG CONSULTING
67 Federal Rd, Building A,
Suite 201
Brookfield, CT 06804

RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

Scale: AS NOTED

Project No. 2K20.015

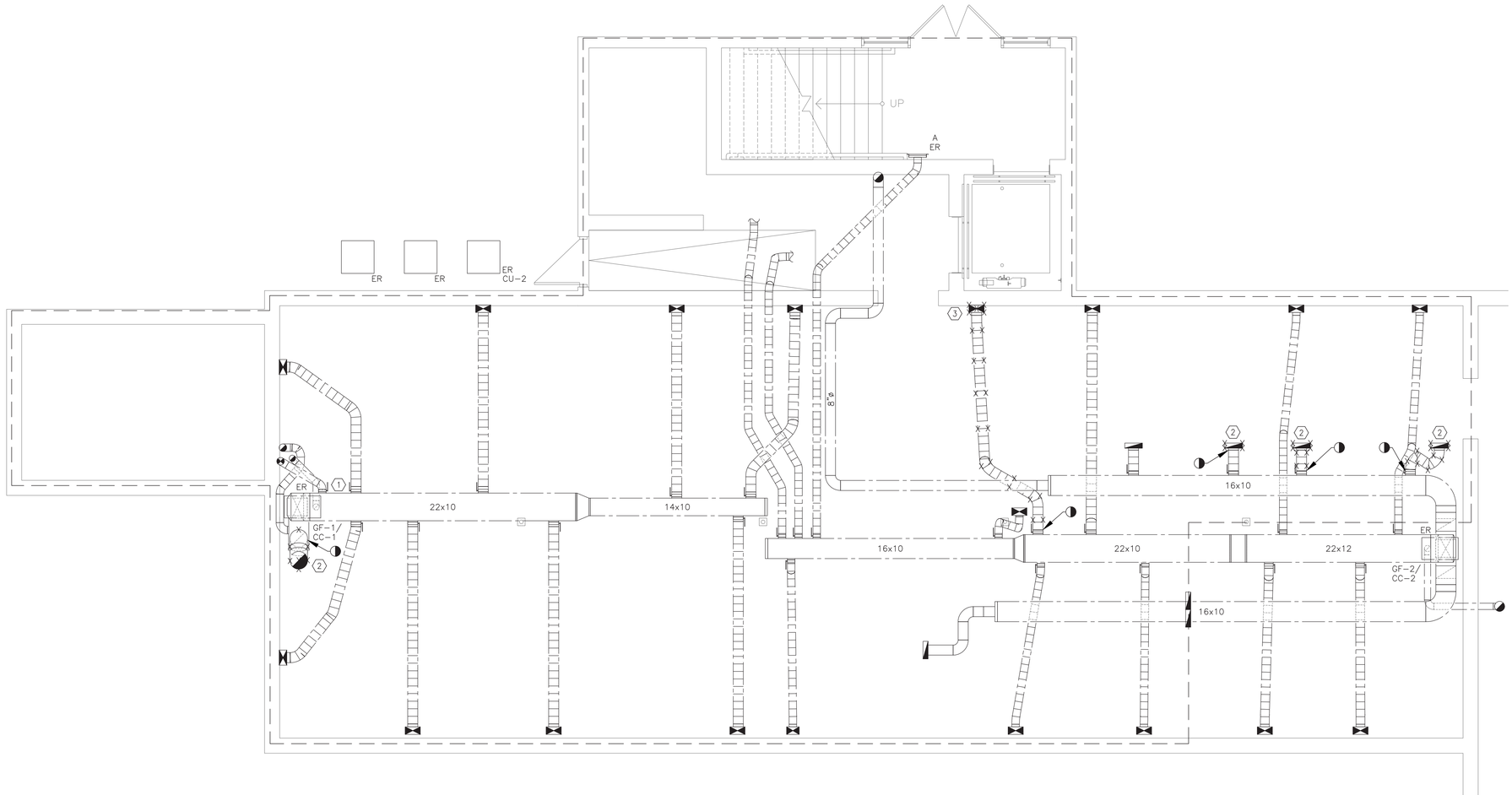
Drawn by: CH

M0.01

MECHANICAL NOTES & LEGEND

MECHANICAL DEMOLITION PLAN NOTES

1. PERFORM PRE-CONTRUCTION AIR BALANCING OF EXISTING SYSTEM. FULLY OPEN ALL DIFFUSERS TO DETERMINE EXACT AIRFLOW AVAILABLE.
2. EXISTING RETURN ROUTED UP TO BE DEMOLISHED. PATCH AND SEAL CEILING PENETRATION.
3. EXISTING SUPPLY ROUTED UP TO BE DEMOLISHED. PATCH AND SEAL CEILING PENETRATION.



1 MECHANICAL BASEMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

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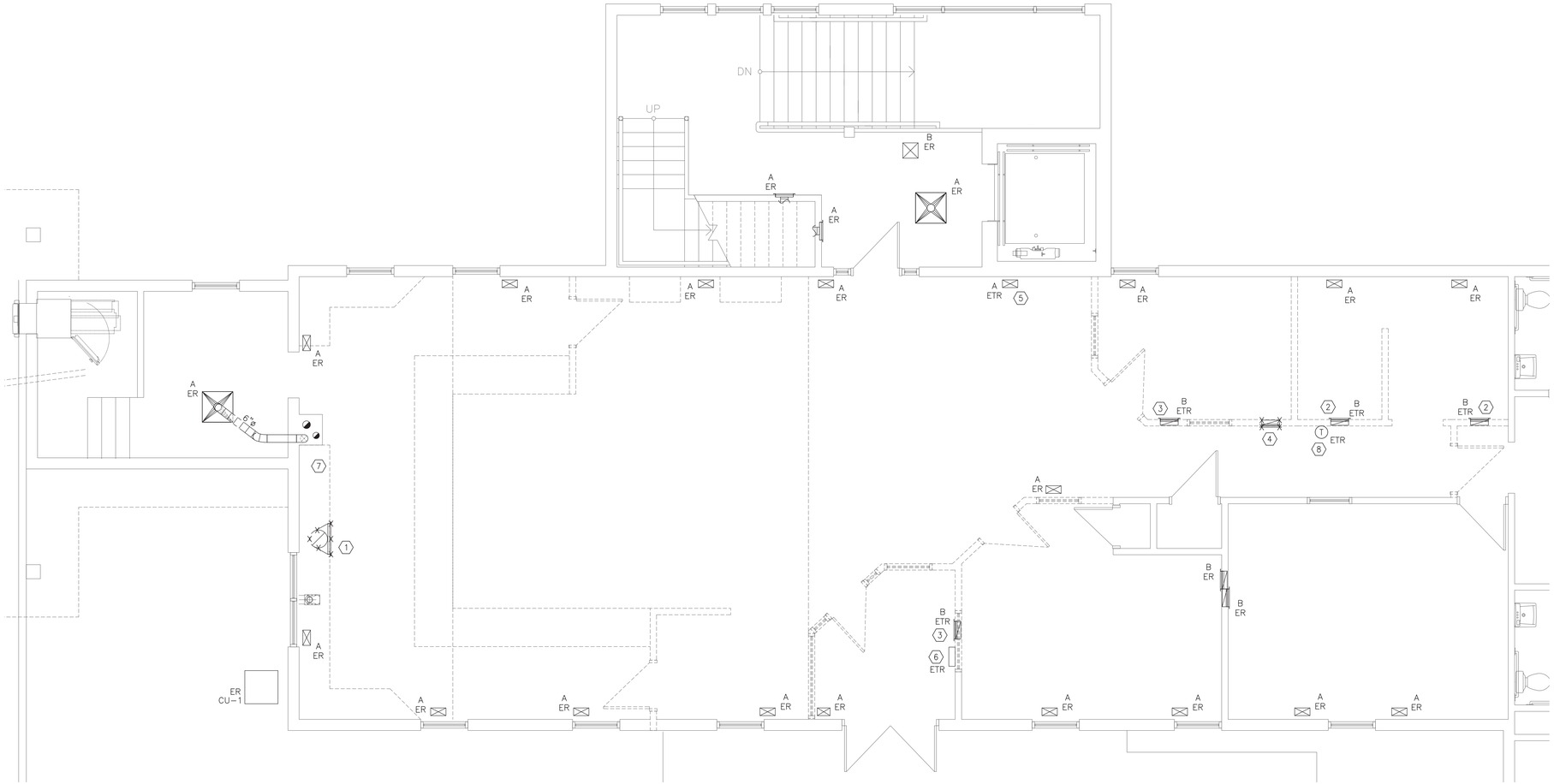
M1.01

MECHANICAL BASEMENT DEMOLITION PLAN

MECHANICAL DEMOLITION PLAN NOTES

1. EXISTING BUILT-IN COUNTER RETURN TO BE DEMOLISHED.
2. EXISTING RETURN GRILL TO BE RELOCATED. PATCH AND SEAL FLOOR PENETRATION.
3. EXISTING RETURN AND GRILL TO BE REMOVED FOR NEW WALL CONSTRUCTION AND REINSTALLED IN SAME PLACE.
4. EXISTING RETURN AND GRILL TO BE DEMOLISHED. PATCH AND SEAL FLOOR PENETRATION.
5. EXISTING FLOOR SUPPLY GRILL TO BE RELOCATED. PATCH AND SEAL FLOOR PENETRATION.
6. EXISTING WALL MOUNTED ELECTRIC UNIT HEATER TO BE REMOVED FOR NEW WALL CONSTRUCTION AND REINSTALLED IN SAME PLACE.
7. EXISTING THERMOSTAT BEHIND IN TELLER AREA SERVING GF-1 TO BE RELOCATED.
8. EXISTING THERMOSTAT SERVING GF-2 TO BE RELOCATED.



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

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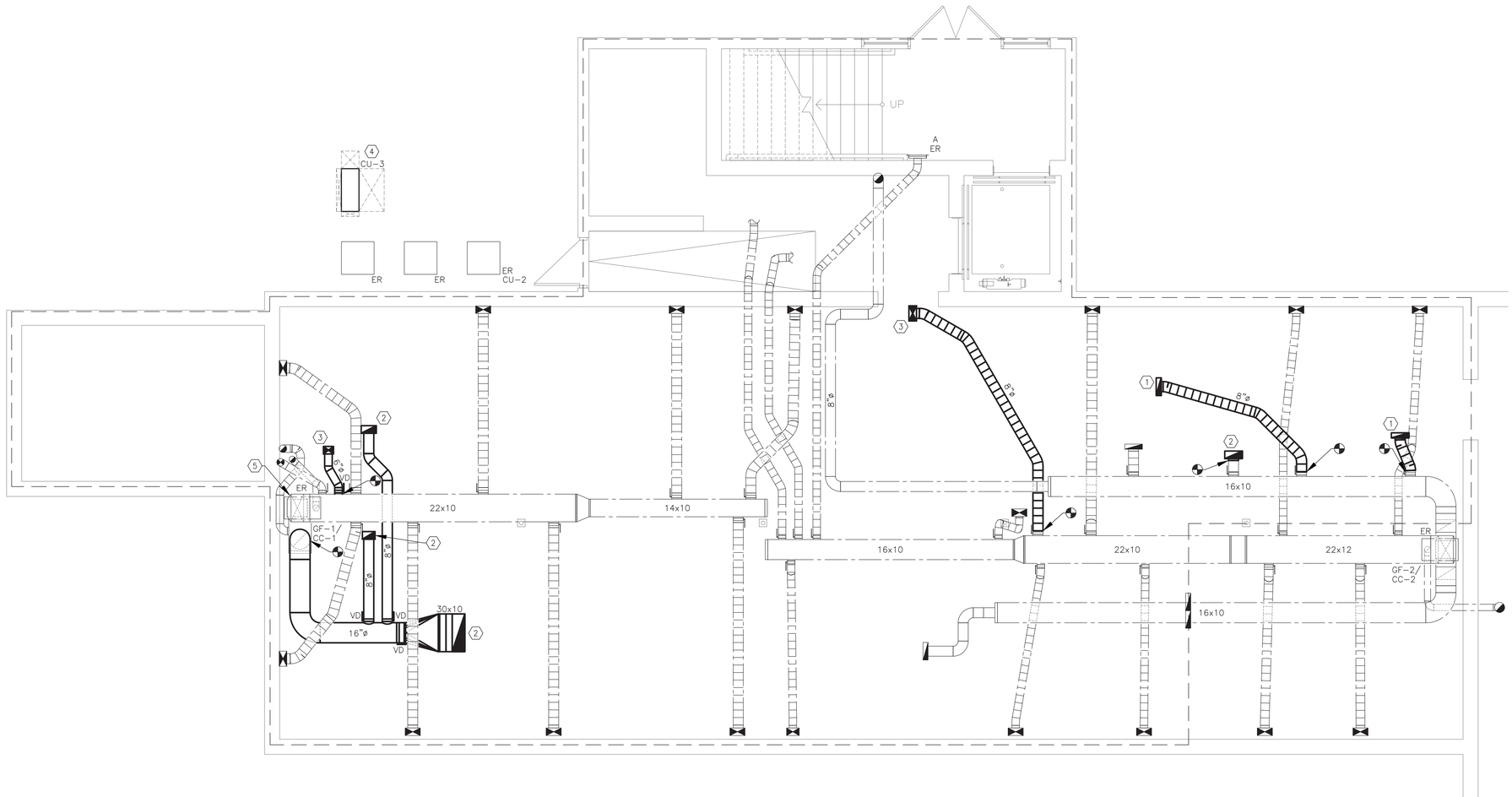
M1.02
MECHANICAL FIRST FLOOR DEMOLITION PLAN

MECHANICAL PLAN NOTES

1. PROVIDE NEW RETURN ROUTED UP IN WALL ABOVE.
2. PROVIDE NEW RETURN ROUTED UP TO FLOOR REGISTER.
3. PROVIDE NEW SUPPLY ROUTED UP TO FLOOR REGISTER.
4. PROVIDE NEW CONDENSER CU-3 AT GRADE TO SERVE FAN COIL FC-1. PROVIDE NEW CONCRETE EQUIPMENT PAD AND MOUNT CONDENSER ON 24" STAND FOR WINTER OPERATION. PROVIDE MANUFACTURER WIND BAFFLES FOR LOW AMBIENT COOLING. SIZE AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. PROPORTIONALLY BALANCE SYSTEM PER PRE-CONSTRUCTION AIR BALANCE REPORT.



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M2.01
MECHANICAL BASEMENT PLAN

MECHANICAL PLAN NOTES

1. EXISTING RETURN GRILL TO BE RELOCATED. PROVIDE NEW RETURN ROUTED DOWN IN WALL.
2. EXISTING RETURN AND GRILL TO BE REINSTALLED IN NEW WALL.
3. EXISTING FLOOR SUPPLY GRILL TO BE RELOCATED.
4. EXISTING WALL MOUNTED ELECTRIC UNIT HEATER TO BE REINSTALLED ON NEW WALL.
5. PROVIDE NEW FLOOR RETURN GRILL.
6. PROVIDE NEW FLOOR SUPPLY REGISTER.
7. PROPORTIONALLY BALANCE SYSTEM PER PRE-CONSTRUCTION AIR BALANCE REPORT.
8. EXISTING THERMOSTAT SERVING GF-1 TO BE RELOCATED.
9. EXISTING THERMOSTAT SERVING GF-2 TO BE RELOCATED.
10. PROVIDE NEW DUCTLESS WALL MOUNTED FAN COIL FC-1. PROVIDE MANUFACTURER SIMPLE WALL MOUNTED THERMOSTAT AND MINI CONDENSATE PUMP. PROVIDE ASSOCIATED CONDENSER CU-3 OUTSIDE AT GRADE. SIZE AND INSTALL REFRIGERANT PIPING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
11. PROVIDE NEW EXHAUST FAN EF-1 TO SERVE JAN/STORAGE. ROUTE EXHAUST TO ROOF AND TERMINATE WITH NEW ROOF CAP. EXHAUST FAN SHALL BE CONTROLLED BY TIMECLOCK AND PROVIDE CONTINUOUS OPERATION DURING BUILDING OPERATING HOURS.

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

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M2.02
MECHANICAL FIRST FLOOR PLAN

MECHANICAL SPECIFICATIONS

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

A. INSTALL ALL NEW WORK IN A NEAT WORKMANLIKE MANNER READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR.

B. CODES, PERMITS AND INSPECTIONS:

1. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF MASSACHUSETTS BUILDING CODE, STURBRIDGE BUILDING DEPARTMENT, BUILDING MANAGEMENT, AND ALL AUTHORITIES HAVING JURISDICTION AND APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. CONTRACTOR IS TO INFORM ENGINEER OF ANY EXISTING WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE BY THIS CONTRACTOR AND AT NO EXPENSE TO THE OWNER.

2. THIS CONTRACTOR SHALL OBTAIN ALL EQUIPMENT APPROVALS AS REQUIRED BY STATE AND LOCAL AUTHORITIES. PERMITS SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.

C. SITE VERIFICATION:

1. PRIOR TO SUBMISSION OF THE BID, THIS CONTRACTOR SHALL VISIT THE JOB SITE TO ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATE TO THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN. DISCREPANCIES, IF ANY, SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO SUBMISSION OF THE BID, AND IF NOT RESOLVED TO SATISFACTION, SHALL BE SUBMITTED AS A WRITTEN QUALIFICATION OF THE BID. SUBMISSION OF A BID SHALL BE EVIDENCE THAT SITE VERIFICATION HAS BEEN PERFORMED AS DESCRIBED ABOVE.

D. CONTRACT DOCUMENTS:

1. PRIOR TO SUBMISSION OF A FORMAL BID, THIS CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THE ENTIRE PROJECT INCLUDING GENERAL CONSTRUCTION, DEMOLITION, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER AND SHALL INCLUDE ANY WORK REQUIRED IN THE BID WHICH IS INDICATED OR IMPLIED TO BE PERFORMED BY THIS TRADE IN OTHER SECTIONS OF THE WORK.

2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK AND APPROXIMATE LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND COORDINATE FINAL LOCATIONS OF DIFFUSERS, GRILLES, REGISTERS, THERMOSTATS, SENSORS, SWITCHES AND ANY WALL MOUNTED DEVICES. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.

3. IF A CONFLICT OCCURS IN THE SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION SHALL APPLY.

E. GUARANTEE:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THIS WORK. FINAL ACCEPTANCE SHALL BE DEFINED AS THE TIME AT WHICH THE MECHANICAL WORK IS TAKEN OVER AND ACCEPTED BY THE OWNER, AND IS UNDER CARE, CUSTODY, AND CONTROL OF THE OWNER. ENGAGE THE SERVICES OF VARIOUS MANUFACTURERS SUPPLYING THE EQUIPMENT FOR THE PROPER STARTUP AND OPERATION OF ALL SYSTEMS INSTALLED. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND SERVICING OF THE SYSTEM.

2. THE CONTRACTOR SHALL GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL INCLUDE RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THIS CONTRACTOR.

3. THIS CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF ALL SYSTEMS UNTIL THE FINAL ACCEPTANCE OF THE WORK.

4. ALL AIR CONDITIONING UNIT COMPRESSORS AND REFRIGERATION COMPONENTS SHALL HAVE A 5–YEAR WARRANTY.

F. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AIA DOCUMENT A201, LATEST EDITION, OR AS REQUIRED BY THE ARCHITECT'S DOCUMENTS, AND/OR THE STRUCTURAL ENGINEER'S DOCUMENTS, AS APPLICABLE, ARE PART OF THIS CONTRACT.

G. DEFINITIONS:

1. MECHANICAL CONTRACTOR, "THIS CONTRACTOR" – THE PARTY OR PARTIES HAVE BEEN DULY AWARDED THE CONTRACT FOR AND ARE THEREBY MADE RESPONSIBLE FOR THE MECHANICAL WORK AS DESCRIBED HEREIN.

2. "THIS CONTRACT", "THE CONTRACT" – THE AGREEMENT COVERING THE WORK TO BE PERFORMED BY THIS CONTRACTOR.

3. "APPROVED", "EQUAL", "SATISFACTORY", "ACCEPTED", "ACCEPTABLE", "EQUIVALENT" – SUITABLE FOR USE ON THE PROJECT, AS DETERMINED BY THE ENGINEER BASED ON DOCUMENTS PRESENTED FOR SUCH DETERMINATION.

4. "THESE SPECIFICATIONS", "THIS SECTION, PART, DIVISION" (OF THE SPECIFICATION) – THE DOCUMENT SPECIFYING THE WORK TO BE PERFORMED BY "THIS CONTRACTOR".

5. "THE MECHANICAL WORK", "THIS WORK" – ALL LABOR MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES, AND OTHER ITEMS REQUIRED FOR A PROPER AND COMPLETE INSTALLATION BY THE MECHANICAL CONTRACTOR.

6. "ARCHITECT", "ENGINEER", "OWNER'S REPRESENTATIVE" – THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING AND OTHERWISE RULING ON THE PERFORMANCE UNDER THIS CONTRACT.

7. "FURNISH" – PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, ALL AS PART OF THE MECHANICAL WORK.

8. "INSTALL" – UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING INSTALLATION AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THE MECHANICAL WORK.

9. "PROVIDE" – "FURNISH" AND "INSTALL".

10. "NEW" – MANUFACTURED WITHIN THE PAST TWO YEARS AND NEVER BEFORE USED.

11. "RELOCATE" – MOVE EXISTING EQUIPMENT AND ALL ACCESSORIES AS REQUIRED.

12. "REMOVE" – DISMANTLE AND CART AWAY FROM SITE INCLUDING ALL RELATED ACCESSORIES. ALL ITEMS SHALL BE LEGALLY DISPOSED OF. ALL OTHER EQUIPMENT AND OPERATIONS IN ANY WAY AFFECTED BY THE REMOVAL IS TO REMAIN IN FULL OPERATION. PROVIDE ALL NECESSARY COMPONENTS TO MAINTAIN SUCH OPERATION.

1.02 SCOPE OF WORK

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND CONTRACTOR'S SERVICES NECESSARY FOR COMPLETE, SAFE INSTALLATION OF ALL MECHANICAL WORK. THE SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

1. DEMOLITION AND REMOVAL OF ITEMS AS REQUIRED.
2. DUCTWORK AND DUCTWORK ACCESSORIES.
3. INSULATION OF PIPING, EQUIPMENT AND DUCTWORK.
4. TESTING AND BALANCING.
5. CUTTING AND PATCHING.
6. SHOP DRAWINGS.
7. AS–BUILT DRAWINGS.
8. OPERATING AND MAINTENANCE MANUALS.
9. FULL COORDINATION WITH OTHER TRADES.
10. WARRANTY AND GUARANTY.
11. PHASING AS REQUIRED BY OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR OR BUILDING MANAGEMENT.
12. PREMIUM TIME FOR WORK TO BE PERFORMED AFTER–HOURS AS REQUIRED BY BUILDING MANAGEMENT AND/OR OWNER.
13. FILING, PERMITS, CONTROLLED INSPECTIONS.
14. FULL TESTING AND STARTUP OF ALL SYSTEMS.

B. SECURE CERTIFICATES, PAY ALL FEES AND CHARGES FOR ALL WORK INSTALLED, CERTIFYING COMPLIANCE WITH ALL AUTHORITIES. DELIVER CERTIFICATES TO OWNER FOR SIGNING BEFORE FILING

1.03 COORDINATION WITH BUILDING MANAGEMENT

A. THIS CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO BID SUBMISSION TO DETERMINE THE REQUIREMENTS AND THE EXTENT OF PREMIUM TIME WORK REQUIRED BY THE BUILDING.

B. THIS CONTRACTOR IS RESPONSIBLE FOR ADHERING TO THE BUILDING OWNER'S RULES AND REGULATIONS. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE BUILDING RULES AND REGULATIONS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/ENGINEER FOR REVIEW WITH BID SUBMISSION.

C. COORDINATE WITH BUILDING OWNER FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS, OR CONTRACTOR TO PROVIDE A MINIMUM OF TWO (2) DAYS NOTICE PRIOR TO ANY WORK BEING PERFORMED, WHICHEVER IS THE MORE STRINGENT. CONTRACTOR IS TO PERFORM WORK ON PREMIUM TIME, IF SO DIRECTED BY BUILDING OWNER, SO AS NOT TO DISTURB EXISTING TENANTS ON OTHER FLOORS.

1.04 SHOP DRAWINGS

A. SUBMIT SHOP DRAWINGS CERTIFIED BY ALL TRADES THAT COORDINATION HAS BEEN COMPLETED. SUBMIT ALL CERTIFIED EQUIPMENT CUTS WITH CONSTRUCTION WIRING DIAGRAMS AND AUTOMATIC TEMPERATURE CONTROL REQUIREMENTS. SHOP DRAWINGS SUBMISSION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

1. DUCTWORK – PROVIDE DUCT SHOP STANDARDS AND LEAKAGE TEST CERTIFICATION, AS REQUIRED, AND 1/4 SCALE DUCT LAYOUT.
2. PIPING LAYOUT AND APPURTENANCES – PROVIDE PIPING, VALVING, CHEMICAL TREATMENT, SHOP STANDARDS AND 1/4 SCALE PIPING LAYOUT WITH ALL VALVING.
3. INSULATION FOR DUCTWORK, PIPING AND EQUIPMENT.
4. EQUIPMENT CATALOG CUTS FOR ALL ITEMS TO BE UTILIZED ON PROJECT (FANS, PUMPS, AC UNITS, VARIABLE FREQUENCY DRIVES, VAV BOXES, ETC.).
5. AIR OUTLETS (DIFFUSERS, REGISTERS, GRILLES, ETC.).
6. AUTOMATIC TEMPERATURE CONTROL DIAGRAMS, DEVICES AND SEQUENCE OF OPERATION.
7. CERTIFIED AIR AND WATER BALANCING REPORT.
8. AS–BUILT DRAWINGS AT PROJECT COMPLETION OF THE INSTALLED CONDITION OF WORK.

B. THE QUANTITY OF SHOP DRAWINGS SHALL AS A MINIMUM BE FOUR (4) COPIES OF 8–1/2" X 11" SUBMISSIONS AND FIVE (5) PRINTS OF ALL DRAWINGS. SPECIFIC JOB REQUIREMENTS MAY BE MORE STRINGENT AND CONTRACTOR IS RESPONSIBLE TO OBTAIN REQUIREMENTS FROM OWNER, CONSTRUCTION MANAGER, GENERAL CONTRACTOR OR ARCHITECT.

1.05 MAINTENANCE MANUALS

A. SUBMIT FOUR (4) LOOSE–LEAF BOUND OPERATING AND MAINTENANCE MANUALS WITH INDEX AND INDEX TABS TO INCLUDE THE FOLLOWING:

1. OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL SYSTEMS.
2. MANUFACTURERS= CATALOG CUTS ON ALL EQUIPMENT.
3. AUTOMATIC TEMPERATURE CONTROL SYSTEMS WITH SEQUENCE OF OPERATIONS, CATALOG CUTS OF ALL DEVICES AND POINT–TO–POINT WIRING DIAGRAMS.
4. CERTIFIED FINAL AIR AND WATER BALANCING REPORT.
5. DUCT AND PIPING AS–BUILT DRAWINGS WITH VALVE CHART AND KEY PLAN DRAWINGS INSERTED IN BINDER.
6. ALL ITEMS SUBMITTED FOR REVIEW IN SHOP DRAWING SECTION.

1.06 ACCESS DOORS IN GENERAL CONSTRUCTION

A. THIS CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL A PLAN INDICATING THE SIZE AND LOCATION OF ALL ACCESS DOORS REQUIRED FOR OPERATION AND MAINTENANCE OF ALL CONCEALED EQUIPMENT, DEVICES, VALVES, DAMPERS AND CONTROLS. CONTRACTOR SHALL ARRANGE FOR FURNISHING AND INSTALLATION OF ALL ACCESS DOORS IN FINISHED CONSTRUCTION AND INCLUDE COSTS IN THE BID. ACCESS DOORS SHALL BE OF ADEQUATE SIZE TO PROVIDE ACCESS TO CONCEALED ITEMS FOR OPERATION AND MAINTENANCE, WITH A MINIMUM SIZE OF 18" X 18".

PART 2 – PRODUCTS/APPLICATIONS

2.01 DUCTWORK AND ACCESSORIES

A. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE, LATEST EDITION, SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL, LATEST EDITION, NFPA 90A LATEST EDITION, AND MASSACHUSETTS MECHANICAL CODE. THE MORE STRINGENT REQUIREMENT OF ANY CODES SHALL APPLY.

B. PROVIDE ALL SUPPORTING AND HANGING DEVICES IN ACCORDANCE WITH CONNECTICUT BUILDING CODE AND SMACNA.

C. DUCTWORK LAYOUT AND ROUTING IS SCHEMATIC AND THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL DUCT SIZE CHANGES AND RELOCATIONS TO ACCOMMODATE SPACE AND STRUCTURAL CONDITIONS. OFFSETS AND TRANSFORMATIONS SHALL PRESERVE THE FULL INSIDE CROSS–SECTIONAL AREA OF DUCTWORK SHOWN ON THE DRAWINGS.

D. DUCTWORK (NEW AND EXISTING TO BE REUSED) SHALL HAVE PRESSURE CLASSIFICATION, SEALING REQUIREMENTS AND LEAKAGE TESTING IN ACCORDANCE WITH SMACNA AND AS LISTED BELOW UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS.

1. 2" CLASS: ALL OTHER LOW PRESSURE DUCTWORK. SEAL CLASS C, LEAKAGE CLASS 24 (RECTANGULAR) OR CLASS 12 (ROUND).

2. LEAKAGE TESTING:

ALL TESTING SHALL BE DONE IN THE PRESENCE OF THE ENGINEER OR OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COLLARS, CAPS, ELECTRIC POWER, ETC. NECESSARY TO PERFORM THE TESTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR SCHEDULING THE TEST NO LESS THAN THREE (3) BUSINESS DAYS PRIOR TO ITS INTENDED OCCURRENCE. LOW PRESSURE DUCTWORK (2" CLASS) SHALL BE TESTED ON AN AS–NEEDED BASIS AT THE ENGINEER'S DIRECTION. LEAKAGE TEST PROCEDURES SHALL FOLLOW THE OUTLINES AND CLASSIFICATIONS IN THE SMACNA HVAC DUCT LEAKAGE TEST MANUAL. IF SPECIMEN FAILS TO MEET ALLOTTED LEAKAGE LEVEL, THE CONTRACTOR SHALL MODIFY TO BRING IT INTO COMPLIANCE AND SHALL RETEST IT UNTIL ACCEPTABLE LEAKAGE IS DEMONSTRATED. TESTS AND NECESSARY REPAIR SHALL BE COMPLETED PRIOR TO CONCEALMENT OF DUCTS.

E. MATERIALS:

1. SHEETMETAL: UNLESS OTHERWISE SPECIFIED OR INDICATED, DUCTS SHALL BE CONSTRUCTED OF HOT–DIPPED GALVANIZED SHEETMETAL WITH 60 COMMERCIAL COATING ACCORDING TO ASTM 653 AND A924.

2. FLEXIBLE CONNECTIONS AT FANS SHALL BE NEOPRENE COATED, FLAME RETARDANT GLASS FABRIC (COMPLYING WITH NFPA 90 AND 96), 30 OZ./SQ. YD. WITH SOWN AND CEMENTED SEAMS.

F. FABRICATION:

1. CONFORM TO SMACNA REQUIREMENTS FOR METAL THICKNESS, REINFORCING, JOINTS, AND SEALING FOR MAXIMUM STATIC PRESSURES INVOLVED. ALL SEAMS AND JOINTS SHALL BE SEALED AND TAPED.

G. VOLUME DAMPERS:

1. GALVANIZED STEEL OR SAME AS DUCT CONSTRUCTION. CONFORM TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 1995 OR LATEST EDITION, OPPOSED BLADE TYPE. PROVIDE BEARING AT BOTH ENDS OF DAMPER ROD AND QUADRANT, WITH LEVER AND LOCKSCREW, AT ONE END. INSTALL WITH LEVERS ACCESSIBLE THROUGH INSULATION. SPLITTER DAMPER OR AIR EXTRACTORS SHALL NOT BE USED ON THIS PROJECT.

2. PROVIDE MANUAL BALANCING VOLUME DAMPERS AS REQUIRED TO PROPERLY BALANCE THE AIR DISTRIBUTION SYSTEM. IF THE LOCATION OF BALANCING DAMPERS ARE NOT DEFINED ON THE DRAWINGS, THE FOLLOWING MINIMUM STANDARDS SHALL GOVERN:

A) LOW PRESSURE: ALL SUPPLY AIR MAIN BRANCHES FROM TRUNK, EACH SPLIT, AND ALL SUB–BRANCHES FROM MAINS SHALL BE PROVIDED WITH BALANCING DAMPERS.

B) LOW PRESSURE: ALL EXHAUST AND RETURN BRANCHES FROM TRUNK, EACH SPLIT AND ALL SUB–BRANCHES FROM MAINS SHALL BE PROVIDED WITH BALANCING DAMPERS.

C) MEDIUM PRESSURE: ALL BRANCHES AND TAKEOFFS DOWNSTREAM OF TERMINAL BOXES (VAV OR FAN POWERED) SHALL BE PROVIDED WITH BALANCING DAMPERS.

D) AS NOTED ON PLANS.

H. DUCT ACCESS DOORS:

1. CONFORM TO SMACNA WITH PIANO HINGES, TWO SASH LOCKS AND DOOR GASKETS. SCREWED ACCESS PANELS ARE NOT PERMITTED. PROVIDE REMOVABLE ACCESS DOORS WHERE DOOR SWING CANNOT BE ACCOMMODATED.

2. SIZE: MINIMUM 20"X14" EXCEPT DUCTS LESS THAN 16", ONE DIMENSION 20" AND THE OTHER DIMENSION, 2" LESS THAN THE DUCT WIDTH.

3. PROVIDE ACCESS DOORS: AT ENTERING AND LEAVING SIDES OF COILS IN DUCTS; AUTOMATIC DAMPERS ON LINKAGE SIDE, MANUAL VOLUME DAMPERS 2 SQ. FT. AND LARGER, FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, SMOKE DETECTION HEADS, FAN BEARINGS ENCLOSED IN DUCTS, SUCTION AND DISCHARGE SIDES OF CEILING MOUNTED FANS, FILTERS, REHEAT COILS, AT ALL EQUIPMENT REQUIRING ACCESS AND AS INDICATED ON DRAWINGS.

I. FIRE DAMPERS:

1. FIRE DAMPERS SHALL BE FACTORY FABRICATED WITH FUSIBLE LINK SHUTTER TYPE MECHANISM OUT OF AIRSTREAM. THE HVAC CONTRACTOR SHALL PROVIDE AN ACCESS DOOR AT EACH DAMPER. DAMPER SHALL BE MANUFACTURED BY IMPERIAL, MODEL FD–150 (1–1/2 HR. RATED) OR MODEL FD–350 (3–HOUR RATED) OR APPROVED EQUAL.

J. COMBINATION FIRE/SMOKE DAMPERS:

1. COMBINATION FIRE/SMOKE DAMPERS SHALL BE CLASS 1 (ONE), DUAL OVERRIDE REMOTE RESETTABLE, OPPOSED MULTIBLADE TYPE WITH FUSIBLE MECHANICAL HEAT RESPONSIVE DEVICE, 120–VOLT OR PNEUMATIC ACTUATOR AS REQUIRED MOUNTED OUT OF THE AIR STREAM, WITH DAMPER OPERATOR AND BLADE POSITION INDICATOR SWITCHES. PROVIDE MOTOR MOUNT BRACKET STRENGTHENER FOR DAMPERS OVER 10" IN HEIGHT. PROVIDE A 10 GAUGE WELDED VERTICAL STIFFENER AT EACH CORNER TO PREVENT DAMPER MISALIGNMENT.

2. THE HVAC CONTRACTOR SHALL PROVIDE ALL DEVICES, RELAYS, END SWITCHES, E/P SWITCHES, CONTROL COMPONENTS, AIR PIPING, POWER WIRING, CONTROL WIRING AND INTERLOCK WIRING, AS REQUIRED TO ACCOMPLISH THE SEQUENCE OF OPERATION FOR THESE DAMPERS.

K. SEAL OPENINGS AROUND DUCTS THROUGH WALLS WITH MINERAL WOOL OR OTHER NON–COMBUSTIBLE MATERIAL. SEAL ALL DUCT PENETRATIONS THROUGH WALLS AIRTIGHT.

L. ALL DUCTS EXPOSE TO MOISTURE SHALL BE ALUMINUM, SLOPED AND DRAINED AND SHALL NOT BE INTERNALLY LINED.

M. EXISTING DUCTWORK TO BE REUSED:

1. THIS CONTRACTOR SHALL INSPECT, SEAL PER SMACNA REQUIREMENTS, LEAK TEST, AND INSULATE ALL EXISTING DUCTWORK TO BE REUSED. EXISTING DUCTWORK TO BE REUSED SHALL CONFORM TO SPECIFICATIONS FOR NEW DUCTWORK LISTED HEREIN. ALL REQUIRED WORK SHALL BE PART OF BID.

2.02 INSULATION

A. ALL INSULATION SHALL MEET THE REQUIREMENTS OF ASTM, NFPA, 2009 INTERNATIONAL ENERGY CONSERVATION CODE AND ALL AUTHORITIES HAVING JURISDICTION. ALL MECHANICAL INSULATION (JACKETING, COVERINGS, ADHESIVES, MASTICS, FACINGS, TAPES, ETC.), SHALL HAVE RATINGS NOT EXCEEDING A AFLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED INDEX OF 50 OR LESS.

B. BEFORE APPLYING INSULATION, ALL PRESSURE AND LEAK TESTS SHALL BE COMPLETED AND APPROVED. FURNISH AND INSTALL AS PER MANUFACTURER'S REQUIREMENTS.

C. INSULATION FOR FITTINGS OaR ACCESSORIES REQUIRING SERVICING OR INSPECTION SHALL HAVE INSULATION REMOVABLE AND REPLACEABLE WITHOUT DAMAGE.

D. DUCT INSULATION:

1. GENERAL

A) INSULATION SHALL BE APPLIED WITH MASTICS, ADHESIVES, COATINGS, WITH COVERS, WEATHER–PROTECTION AND OTHER WORK AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS. DO NOT INSULATE SOUND LINED DUCTWORK. MATERIALS SHALL MEET REQUIREMENTS OF ADHESIVE AND SEALANT COUNCIL STANDARDS AND SMACNA.

B) ALL SUPPLY AND RETURN DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R–5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES, A MINIMUM OF R–8 INSULATION SHALL BE INSTALLED WHEN LOCATED OUTSIDE OF THE BUILDING. WHEN A DUCT OR PLENUM IS LOCATED WITHIN THE BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPERATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED SPACES BY A MINIMUM OF R–8 INSULATION.

2. CONCEALED DUCTWORK

A) INSULATE SUPPLY AND FRESH AIR DUCTS AND PLENUMS IN CONCEALED SPACES AND RETURN DUCT NOT IN CEILING PLENUM WITH AT LEAST 1–1/2" THICK FIBROUS GLASS DUCT WRAP, WITH A MINIMUM R VALUE OF R–5 AND FOIL–KRAFT FLAME RESISTANT VAPOR BARRIER.

3. EXPOSED DUCTWORK

A) INSULATE EXPOSED SUPPLY, RETURN AND FRESH AIR DUCTS AND EXPOSED PLENUM WITH 2" THICK, SEMI–RIGID FIBROUS GLASS BOARDS WITH A MINIMUM R VALUE OF R–8 AND A FACTORY APPLIED FIRE RETARDANT FOIL REINFORCED KRAFT VAPOR BARRIER FACING. PROVIDE WELD PINS AND VAPOR SEAL ALL JOINTS WITH TAPE.

2.03 TESTING AND BALANCING

A. GENERAL:

1. TESTING AND BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT COMPANY (NOT ASSOCIATED WITH THE HVAC CONTRACTOR), AABC CERTIFIED OR AS APPROVED BY THE ENGINEER BEFORE COMMENCEMENT OF WORK. APPROVED COMPANIES INCLUDE MERENDINO ASSOCIATES, R.H. MCDERMOTT, INTERNATIONAL TESTING AND BALANCING OR AS APPROVED BY THE ENGINEER AND BUILDING MANAGEMENT.

2. AFTER ALL PROJECT HVAC WORK IS COMPLETE, TESTED, AND IN FULL WORKING ORDER, THE AGENCY SHALL PERFORM THE BALANCING AND TESTING OF THE PROJECT HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS.

3. UPON THE COMPLETION OF THE AIR CONDITIONING SYSTEM, THE BALANCING AGENCY SHALL PERFORM TESTING AND BALANCING AND COMPILE ALL TEST DATA IN A CERTIFIED REPORT AND SUBMIT FOUR (4) COPIES FOR REVIEW AND APPROVAL TO THE ENGINEER.

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RENOVATIONS FOR:
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Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

Scale: AS NOTED

Project No. 2K20.015

Drawn by: CH

M3.01
MECHANICAL SPECIFICATIONS (1 OF 2)

4. THE REPORT SHALL INCLUDE DESIGN AND ACTUAL READINGS FOR ALL EQUIPMENT AND LOCATION PLAN INDICATING WHERE ALL WORK HAS BEEN PERFORMED, AND METHODS OF BALANCING AND DETAILS OF INSTRUMENTS USED.

5. IF DISCREPANCIES EXIST IN THE REPORT THAT REQUIRE FIELD VERIFICATION, THE TESTING AND BALANCING COMPANY IN THE PRESENCE OF THE ENGINEER SHALL VISIT THE JOBSITE FOR FIELD VERIFICATION OF THE REPORT.

6. AFTER SUBMISSION OF THE FIELD VERIFIED BALANCING REPORT, THE AIR BALANCING COMPANY SHALL RETURN TO THE JOB SITE TO PERFORM TWO (2) OCCUPANT COMFORT BALANCES AS DIRECTED BY THE OWNER OR ENGINEER.

7. THE FINAL REPORT AFTER THE COMFORT BALANCE IS TO BE INCLUDED IN PROJECT OPERATING AND MAINTENANCE MANUAL.

8. THE TESTING AND BALANCING AGENCY SHALL INCLUDE AS PART OF THEIR WORK AN EXTENDED WARRANTY OF 90 DAYS AFTER COMPLETION OF TEST AND BALANCE WORK. THE ENGINEER AT HIS DISCRETION DURING THE WARRANTY PERIOD MAY REQUEST A RECHECK OR RESETTING OF ANY EQUIPMENT. THE MECHANICAL CONTRACTOR AND THE BALANCING CONTRACTOR SHALL PROVIDE THE NECESSARY TECHNICIANS TO FACILITATE THIS WORK.

9. THE BALANCING AGENCY SHALL PERMANENTLY MARK ALL ADJUSTMENT DEVICES (VALVES, DAMPERS, ETC.) TO ENABLE THE SETTING TO BE RESTORED.

B. AIR BALANCING

1. PRE-CONSTRUCTION AIR TESTING:

   MEASURE PRESSURE, TEMPERATURE, AND VOLUME OF AIR FROM THE EXISTING BASE BUILDING SYSTEM BEFORE STARTING WORK. TRAVERSE MAIN SUPPLY AND RETURN DUCTS BEFORE WORK TO OBTAIN TOTAL FLOW. SUBMIT REPORT TO THE ENGINEER IMMEDIATELY AFTER COMPLETION OF THE TEST.

2. HVAC CONTRACTOR SHALL ENSURE THAT A FIRST SET OF AIR FILTERS ARE IN PLACE, WHENEVER FANS ARE RUNNING AND REPLACED WITH A NEW CLEAN SET OF FILTERS BEFORE TESTING IS COMMENCED.

3. TEST, ADJUST, REPLACE SHEAVES, AND BALANCE ALL EQUIPMENT AND AIR DISTRIBUTION SYSTEMS TO PROVIDE AIR QUANTITIES INDICATED ON PLANS WITHIN PLUS OR MINUS 10 PERCENT.

4. TEST REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

   A) FLOW, LEAKAGE CLASS, TEMPERATURE, STATIC PRESSURE OF AIR AT ALL TRUNK DUCTS SERVING AREAS OF WORK.

   B) TEMPERATURE OF AIR LEAVING OUTLETS AT TWO (2) TYPICAL AIR OUTLETS.

   C) QUANTITY OF AIR AT EACH AIR INLET AND OUTLET AFTER BALANCING.

   D) PROVIDE FOR ALL FANS, FAN MOTOR HP, AMPS, VOLTS, FAN RPM, CFM, INLET AND DISCHARGE STATIC PRESSURE, SHEAVE POSITION.

   E) PROVIDE FOR ALL AIR CONDITIONING UNITS, SUPPLY CFM, OUTSIDE AIR CFM, RETURN AIR CFM, MIXED AIR CFM. PROVIDE OUTSIDE AIR, MIXED AIR AND SUPPLY AIR TEMPERATURES (DRY BULB – COOLING AND HEATING, WET-BULB-COOLING). INDICATE UNIT OPERATING MODE DURING TEST.

   F) CALIBRATE ALL NEW AND EXISTING TO BE REUSED TERMINAL BOXES (VAV, FAN POWERED OR DUAL DUCT)AS REQUIRED TO MEET SPECIFIED MINIMUM/MAXIMUM CFM.

   G) LISTING OF DESIGN AND ACTUAL READINGS AS WELL AS ALL MANUFACTURER'S DATA FOR EQUIPMENT.

2.04 EQUIPMENT

A. PROVIDE ALL EQUIPMENT AND ACCESSORIES OF THE SIZES AND CAPACITIES AS SCHEDULED AND AS INDICATED ON THE DRAWINGS.

B. INSTALL EQUIPMENT IN ACCORDANCE WITH APPROVED SHOP DRAWINGS, MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS, AND ALL AUTHORITIES HAVING JURISDICTION.

C. PROVIDE EQUIPMENT SUPPORTS AND/OR MOUNTINGS AS INDICATED ON THE DRAWING, IN VIBRATION SPECIFICATION AND AS FOLLOWS:

   1. CEILING MOUNTED EQUIPMENT – PROVIDE SUPPORTS WITH APPROVED SUITABLE ANCHORS SUSPENDED DIRECTLY FROM BUILDING STEEL STRUCTURE.

D. EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATION

E. RE-USE OF EXISTING EQUIPMENT:

   1. EXISTING SYSTEM SURVEY

      A) PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL PERFORM EXISTING CONDITIONS SURVEY OF SYSTEMS TO BE RE-USED AND PREPARE COMPLETE REPORT INDICATING PHYSICAL CONDITION OF UNITS AND ACCESSORIES AND NOTE ANY REPAIRS REQUIRED BEYOND ITEMS INCLUDED IN DESIGN DOCUMENTS TO RESTORE EQUIPMENT TO A FULLY OPERATIONAL CONDITION. REPORT TO BE SUBMITTED TO THE ENGINEER FOR REVIEW AND ANY CORRECTIVE ACTION. COORDINATE THIS WORK WITH ANY NEW OR REFURBISHMENT WORK LISTED IN THE SPECIFICATIONS OR PLANS.

      B) PROVIDE A UNIT PRICE LIST TO BE SUBMITTED WITH YOUR BID FOR THE REPAIR OF ALL INTERNAL COMPONENTS OF ALL EQUIPMENT TO BE RE-USED AS WELL AS ALL ACCESSORIES.

      C) UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL WARRANTY ALL RE-USED EQUIPMENT FOR ONE (1) YEAR.

   2. REHABILITATION OF EXISTING PERIMETER INDUCTION UNITS

      A) UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO PERFORM THE FOLLOWING ITEMS TO EACH INDUCTION UNIT AS PART OF HIS CONTRACT WORK:

         1) VACUUM CLEAN UNIT ENCLOSURE.

         2) CLEAN UNIT LINT SCREENS.

         3) STEAM OR NITROGEN CLEAN (CONTRACTOR'S OPTION) UNIT HEATING/COOLING UNIT.

         4) CLEAN UNIT PRIMARY AIR JET NOZZLES.

         5) RECALIBRATE EXISTING OR CALIBRATE NEW THERMOSTATS AND ASSOCIATED EXISTING AND NEW CONTROL VALVES.

      B) REPLACE EXISTING UNIT THERMOSTATS AND CONTROL VALVES AS SHOWN ON PLAN. PROVIDE NEW THERMOSTATS, VALVES AND INSULATION TO MATCH BASE BUILDING STANDARD WHERE SHOWN ON PLAN.

F. DIFFUSERS, GRILLES AND REGISTERS

   1. GENERAL

      A) GRILLES, REGISTERS AND DIFFUSERS SHALL BE TESTED IN ACCORDANCE WITH ASHRAE STANDARD 70-1991 OR LATEST EDITION. THE MANUFACTURER SHALL PROVIDE PUBLISHED PERFORMANCE DATA FOR ALL AIR INLETS AND OUTLETS TO BE USED ON PROJECT AS PART OF THE SUBMISSION.

      B) THE MECHANICAL CONTRACTOR TO COORDINATE THE LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH OTHER TRADES AND WITH CEILING AND WALL CONSTRUCTION. THE MECHANICAL CONTRACTOR IS TO VERIFY THAT ALL DIFFUSERS, GRILLES AND REGISTERS ARE COMPATIBLE WITH CEILING CONSTRUCTION TO WHICH THEY ARE TO BE INSTALLED.

      C) COORDINATE ALL WORK WITH THE GENERAL CONTRACTOR AND REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, LENGTHS AND FOR FRAMING AND MITERING ARRANGEMENTS THAT MAY DIFFER FROM THOSE SHOWN ON HVAC DRAWINGS. PROVIDE ALL REQUIRED GENERAL CONSTRUCTION, FRAMING, BLOCKING, PLASTERING AND SUPPORTS TO MATCH CEILING, SOFFIT OR WALL CONSTRUCTION AS PART OF THE PROJECT.

      D) INLETS AND OUTLETS SHALL HANDLE AIR QUANTITIES INDICATED AT OPERATING VELOCITIES WITH SOUND PRESSURE LEVEL NOT TO EXCEED NC-30, UNLESS NOTED OTHERWISE.

      E) DIFFUSERS, GRILLES AND REGISTERS SHALL BE INSTALLED WITH FACES SET LEVEL AND PLUM AND MOUNTED TIGHTLY AGAINST MOUNTING SERVICE.

      F) ALL AIR INLETS AND OUTLETS TO BE STEEL OR ALUMINUM IF EXPOSED TO MOISTURE UNLESS OTHERWISE INDICATED. FINISHES TO BE SELECTED BY THE ARCHITECT.

      G) DIFFUSERS, GRILLES AND REGISTERS SHALL BE MANUFACTURED BY TITUS, ANEMOSTAT OR APPROVED EQUAL.

      H) SUBMIT FOR APPROVAL A COMPLETE SCHEDULE OF ALL AIR INLETS AND OUTLETS TO BE USED ON PROJECT INCLUDING MANUFACTURER'S MODELS, SIZES, PERFORMANCES, ACCESSORIES, ACOUSTIC INFORMATION, FINISHES, ETC., BEFORE RELEASE FOR FABRICATION. NOTE ANY DEVIATIONS FROM SPECIFICATIONS AND SCHEDULES SHALL BE INDICATED ON SUBMITTAL.

   2. AIR INLET AND OUTLET DEVICES:

      A) PROVIDE DIFFUSERS, GRILLES AND REGISTERS FOR SUPPLY, RETURN AND EXHAUST INLETS AND OUTLETS, OF THE SIZE, TYPE AND DESIGN INDICATED ON DRAWINGS.

      B) ALL SUPPLY RETURN AND EXHAUST AIR INLETS AND OUTLETS SHALL BE PROVIDED WITH AN OPPOSED BLADE DAMPER AND GRID (ADJUSTABLE THROUGH THE FACE) FOR TRIM BALANCING.

      C) SUPPLY REGISTERS SHALL HAVE TWO SETS OF DIRECTIONAL CONTROL BLADES.

      D) ONLY 4-WAY DIFFUSERS SHALL BE USED. PROVIDE BLANK-OFF SHEETMETAL BAFFLE FOR ALL 1-WAY, 2-WAY AND 3-WAY DIFFUSERS.

      E) ALL LINEAR DIFFUSERS SHALL BE PROVIDED WITH CABLE OPERATED OPPOSED BLADE DAMPER ADJUSTABLE THROUGH THE FACE OF THE DIFFUSER. DAMPERS AND PLENUM TAPS SHALL BE SPACED AT A MAXIMUM OF 4 FEET ON CENTER. PROVIDE DIFFUSERS WITH ADJUSTABLE AIR PATTERN CONTROL VALVES.

2.05 AUTOMATIC TEMPERATURE CONTROLS

A. GENERAL:

   1. FURNISH AND INSTALL AS HEREIN SPECIFIED, A COMPLETE AUTOMATIC TEMPERATURE CONTROL SYSTEM AS REQUIRED FOR THE OPERATION OF ALL HVAC EQUIPMENT.

   2. ALL TEMPERATURE CONTROL SYSTEMS AND COMPONENTS UNDER THIS SUBCONTRACT ARE TO BE FULLY MODULATING TYPE, EXCEPT WHERE NOTED OTHERWISE. THE SYSTEM SHALL BE COMPLETE IN ALL RESPECTS INCLUDING ALL ASSOCIATED CONTROL EQUIPMENT, THERMOSTATS, CONTROL VALVES, VALVE ACTUATORS, DAMPER OPERATORS, RELAYS, PILOT POSITIONERS, CONTROL WIRING, CONTROL AIR PIPING, SWITCHES, INTERLOCK WIRING, ELECTRICAL OR PNEUMATIC CONTROL COMPONENTS AND ASSOCIATED PIPING OR WIRING, APPURTENANCES, ETC., TO PROVIDE THE FUNCTIONS DESCRIBED IN THESE SPECIFICATIONS AND PLANS, REGARDLESS OF WHETHER OR NOT SAID DEVICE RELAY, ETC. IS SPECIFICALLY MENTIONED HEREAFTER.

   3. THE SYSTEM SHALL BE SUPERVISED AND CHECKED OUT COMPLETELY IN ALL RESPECTS BY COMPETENT MECHANICS, REGULARLY EMPLOYED BY THE MANUFACTURER.

   4. THE CONTROL SYSTEMS SHALL BE IN ACCORDANCE WITH THE FOLLOWING DESCRIPTION OF SYSTEM OPERATIONSAND/OR DETAIL INFORMATION SHOWN ON THE PLANS AND AS DESCRIBED HEREIN.

      A) THE MANUFACTURER OF THE AUTOMATIC CONTROL EQUIPMENT SHALL SUBMIT THE FOLLOWING FOR APPROVAL: A SCHEMATIC DIAGRAM OF EACH CONTROL SYSTEM WHICH SHALL INDICATE THE PROPER SEQUENCE OF OPERATION AND RANGE OF THE CONTROLS FOR ALL CYCLES. A COMPLETE DESCRIPTION OF THE AUTOMATIC OPERATION OF EACH SYSTEM. THE DESCRIPTION SHOULD INCLUDE THE DUTY OF EACH THERMOSTAT, VALVE, SWITCH, ETC., INCORPORATED IN THE CONTROL SYSTEM WITH A SCHEDULE AND ILLUSTRATION OF ALL CONTROL INSTRUMENTS AND EQUIPMENT INCLUDING CONTROL PANELS AND DEVICES FOR EACH SYSTEM.

B. ELECTRIC WIRING:

   1. ALL ELECTRICAL WORK (EXCEPT FOR MOTOR FEEDERS, WIRING BETWEEN MOTORS, MOTOR CONTROLLERS, FEEDER PANELS, FUSES, CIRCUIT BREAKERS AND BUS BARS) REQUIRED FOR THE AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED BY THIS CONTRACTOR. WORK SHALL INCLUDE BUT NOT BE LIMITED TO TIME SWITCHES, DAMPER MOTORS, DAMPER SWITCHES, ELECTRIC THERMOSTATS, ELECTRIC RELAYS, E/P SWITCHES, INTERLOCKING WIRING, WIRE, CONDUIT, ETC.

   2. ALL 115 VOLT POWER REQUIRED FOR CONTROL PURPOSES SHALL BE PROVIDED BY THE CONTROL CONTRACTOR FROM A SOURCE ESTABLISHED BY THE ELECTRICAL CONTRACTOR.

   3. THE CONTROL MANUFACTURER SHALL INCLUDE WIRING DIAGRAMS IN HIS SHOP DRAWINGS SUBMITTALS FULLY COORDINATED WITH THE ELECTRICAL CONTRACTOR'S WORK. IT SHALL BE THE AUTOMATIC TEMPERATURE CONTROL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL WIRING AND CONDUIT AS REQUIRED TO ACHIEVE THE FUNCTION CALLED FOR IN THESE SPECIFICATIONS, CONFORMING WITH LOCAL CODES FOR MATERIAL AND INSTALLATION. THE ELECTRICAL SPECIFICATION FOR THE PROJECT'S ELECTRICAL WORK IS TO BE FOLLOWED.

   4. FURNISH A CERTIFICATE INDICATING THE METHOD OF WIRING COMPLIANCE WITH LOCAL CODES AS PART OF THE FIRST SHOP DRAWING SUBMITTAL.

C. ROOM THERMOSTAT AND SWITCH LOCATIONS:

   1. ALL ROOM THERMOSTATS AND SWITCH LOCATIONS (WHETHER SHOWN ON PLANS OR NOT) SHALL BE SELECTED AND SUBMITTED BY THE TEMPERATURE CONTROL MANUFACTURER FOR APPROVAL BY THE ARCHITECT AND ENGINEER PRIOR TO ACTUAL INSTALLATION.

D. AUTOMATIC DAMPERS:

   1. PROVIDE CONTROLS FOR ALL THE AUTOMATIC DAMPERS, AS SPECIFIED IN THE DUCTWORK SECTION, AND SHOWN ON THE DRAWINGS.

   2. CONTROL MOTORS OR ACTUATORS SHALL BE OF THE ELECTRONIC OR PNEUMATIC TYPE, UNLESS OTHERWISE NOTED, OR APPROPRIATE SIZE AND QUANTITIES TO PROVIDE TWO-POSITION OR PROPORTIONING CONTROL ACTION AS SPECIFIED. PROPORTIONING TYPE SHALL BE EQUIPPED WITH PILOT TYPE POSITIONERS. PILOT POSITIONERS SHALL BE SELECTED FOR VARIED SPRING RANGES AND ADJUSTABLE WITHOUT DISMANTLING POSITIONER AND CONTROL MOTOR.

   3. AUTOMATIC DAMPERS EXPOSED TO THE ELEMENTS SHALL HAVE ELECTRIC ACTUATORS WITH ALL REQUIRED ACCESSORIES.

E. CONTROL PANELS:

   1. FURNISH AND INSTALL IN THE MECHANICAL ROOM, AS HEREIN SPECIFIED, CONTROL PANELS OF STEEL, WITH WELDED ANGLE IRON BRACKETS, FOR WALL OR FLOOR MOUNTING.

   2. THE BASIC BACKGROUND COLOR OF THE PANEL SHALL BE AS APPROVED BY THE ARCHITECT AND ENGINEER.

   3. PANELS SHOULD BE FULLY ENCLOSED WITH HINGED LOCKING FRONT DOOR FOR EACH PANEL. THE PANEL SHALL CONTAIN ALL CONTROLLERS, RELAYS, SWITCHES, ETC. PROVIDE ENGRAVED NAMEPLATES TO LABEL THE CONTROLLED EQUIPMENT AND FOR EACH PANEL MOUNTED CONTROL DEVICE. PLASTIC LAMINATED CONTROL SCHEMATIC DRAWINGS FOR THE SYSTEM SHALL BE HUNG AT EACH LOCAL CONTROL PANEL.

   4. DETAILS OF EACH OF THESE PANELS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. LOCATIONS OF EACH PANEL ARE TO BE CONVENIENT FOR ADJUSTMENT AND SERVICE AND ALL SUCH LOCATIONS ARE TO BE APPROVED PRIOR TO INSTALLATION.

F. SEQUENCE OF OPERATIONS:

   1. ALL HVAC SYSTEMS SHALL BE CONTROLLED ACCORDING TO THE POINT LIST CONTAINED IN THE SECTION OF THE SPECIFICATIONS AND SHALL BE STAND-ALONE. ADDITIONAL POINTS OR SOFTWARE PROGRAMMING NOT LISTED IN THE POINT LIST BUT WHICH ARE REQUIRED TO MEET THE FOLLOWING SEQUENCES OF OPERATION SHALL BE PROVIDED.

   2. FAN COIL UNIT (FC-1):

      A) FAN COIL UNIT SHALL BE CONTROLLED BY MANUFACTURER SIMPLE WALL MOUNTED THERMOSTAT.

      B) THE INDOOR SPACE TEMPERATURE SHALL BE MAINTAINED AT SETPOINT WITHIN A RANGE OF +/- 1°F.

      C) UNIT SHUTDOWN: SUPPLY FAN SHALL BE DENERGIZED AND DX-REFRGIERANT COIL CONTROL VALVE SHALL CLOSE.

      D) TEMPERATURE CONTROL

         1) COOLING MODE: WHEN THE SPACE RAISES ABOVE SETPOINT THE CONDENSER SHALL ENGAGE IN COOLING MODE. WHEN TEMPERATURE REACHES SETPOINT THE CONDENSER SHALL SHUTDOWN.

   3. EXHAUST FAN (EF-1):

      A) EXHAUST FAN SHALL BE CONTROLLED BY TIMECLOCK AND PROVIDE CONTINUOUS OPERATION DURING BUILDING OPERATING HOURS.

PART 3 – EXECUTION

3.01 DEMOLITION, REMOVAL AND RELOCATION

A. REMOVAL, TEMPORARY CONNECTIONS AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. ALL EXISTING CONDITIONS ARE NOT TO BE COMPLETELY DETAILED ON THE DRAWINGS. THE CON-TRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK.

B. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT, AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.

C. EQUIPMENT REQUIRED TO BE TEMPORARILY DISCONNECTED AND RELOCATED SHALL BE CAREFULLY REMOVED, STORED, CLEANED, REINSTALLED, RECONNECTED, AND MADE OPERATIONAL.

D. ALL EXISTING WORK NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE. WHERE EXISTING WORK TO REMAIN IS DAMAGED OR DISTURBED, THE CONTRACTOR SHALL REPAIR OR REPLACE TO OWNER'S AND BUILDING MANAGER'S SATISFACTION AT NO COST TO THE OWNER OR BUILDING MANAGEMENT.

E. GENERAL CONTRACTOR REMOVE ALL CEILING IN AREAS WHERE NEW DUCTWORK OR PIPING IS TO BE INSTALLED OR EXISTING IS ALTERED, AS PER ARCHITECT'S INSTRUCTIONS.

F. ALL NECESSARY CUTTING AND PATCHING TO ACCOMMODATE THE NEW HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR AND COORDINATED WITH BUILDING MANAGEMENT SO AS TO MINIMIZE DISRUPTION OF EXISTING TENANTS AND SERVICES. RESTORE ALL ITEMS TO MATCH EXISTING CONDITIONS.

G. ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED UNDER THIS CONTRACT WILL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE LEGALLY DISPOSED OF BY THIS CONTRACTOR AS DIRECTED BY THE ARCHITECT OR OWNER. REFRIGERATION CONTAINED IN EXISTING EQUIPMENT TO BE REMOVED SHALL BE RECLAIMED OR LEGALLY DISPOSED OF IN ACCORDANCE WITH EPA REQUIREMENTS AND ASHRAE.

H. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE. COORDINATE ALL DEMOLITION AND REMOVALS WITH BUILDING MANAGEMENT.

3.02 CONNECTION TO EXISTING WORK

A. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING MANAGEMENT. INSTALL ISOLATION VALVES AT POINT OF CONNECTION TO THE EXISTING PIPING. INSTALL ISOLATION DAMPERS AT CONNECTION TO EXISTING DUCTWORK. PROVIDE TEMPORARY DUCTWORK AND PIPING CONNECTIONS AS REQUIRED TO MINIMIZE SHUTDOWN TIME.

B. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT AND BUILDING MANAGER.

C. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES.

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Built on trust.
200 CHARLTON ROAD
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Project No. 2K20.015

Drawn by: CH

M3.02

MECHANICAL SPECIFICATIONS (2 OF 2)

ELECTRICAL ABBREVIATIONS

A	AMPERE	HP	HORSEPOWER
AC	ABOVE COUNTER	HZ	HERTZ
AFF	ABOVE FINISHED FLOOR	IC	INTERRUPTING CAPACITY
AHJ	AUTH. HAVING JURISDICTION	ICE	ICE MACHINE
BLDG	BUILDING	INCAND	INCANDESCENT
C	CONDUIT	JB	JUNCTION BOX
CB	CIRCUIT BREAKER	KVA	KILOVOLT AMPERE
CKT	CIRCUIT	KW	KILOWATT
CLG	CEILING	LTG	LIGHTING
CLOS	CLOSET	MAX	MAXIMUM
CO	CONDUIT ONLY	MCB	MAIN CIRCUIT BREAKER
COMM	COMMUNICATION	MIN	MINIMUM
CONT	CONTINUATION	MLO	MAIN LUGS ONLY
CORR	CORRIDOR	MTD	MOUNTED
CP	CONDENSATE PUMP	MTG	MOUNTING
CU	COPPER	MW	MICROWAVE
DED	DEDICATED	N	NEW DEVICE
DF	DRINKING FOUNTAIN	NEC	NATIONAL ELECTRICAL CODE
DISC	DISCONNECT	NTS	NOT TO SCALE
DN	DOWN	OC	ON CENTER
DW	DISHWASHER	P	POLE
DWG	DRAWING	PB	PULL BOX
E	EXISTING DEVICE	ø	PHASE
EC	ELECTRICAL CONTRACTOR	PNL	PANEL
ELEC	ELECTRICAL	PWR	POWER
ELEV	ELEVATOR	R	RELOCATED DEVICE
EMERG	EMERGENCY	RECEPT	RECEPTACLE
EP	ELECTRICAL PANEL	RM	ROOM
EQPT	EQUIPMENT	SECT	SECTION
ER	EXISTING TO BE RELOCATED	SW	SWITCH
EXIST	EXISTING	SPKLR	SPRINKLER
FA	FIRE ALARM	TELE	TELEPHONE
FBO	FURNISHED BY OTHERS	TYP	TYPICAL
FCO	FUSED CUTOUT	UC	UNDERCOUNTER
FDR	FEEDER	UON	UNLESS OTHERWISE NOTED
FL	FLOOR	V	VOLT OR VOLTAGE
FLUOR	FLUORESCENT	XFORMER	TRANSFORMER
G, GRD	GROUND	W	WATT
GC	GENERAL CONTRACTOR	WM	WIREMOLD
GFI	GROUND FAULT INTERRUPTING	WP	WATER PROOF

ELECTRICAL GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE (NEC), NATIONAL FIRE CODE (NFPA), STATE BUILDING CODES, CODES AND REQUIREMENTS OF THE LOCAL CITY, AND OWNERS REQUIREMENTS.
2. ALL CONDUITS AND EQUIPMENT SHALL BE INSTALLED AND GROUND IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE APPLICABLE LOCAL AND NATIONAL CODES.
3. ALL MATERIAL SHALL BE UNDERWRITERS' LABORATORIES LISTED FOR ITS APPLICATION WHERE SUCH LISTING IS APPLICABLE.
4. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
5. SECURE ALL SUPPORTS TO BUILDING STRUCTURE UTILIZING TOGGLE BOLTS (HOLLOW MASONRY), EXPANSION SHIELDS OR INSERTS (CONCRETE AND BRICK), MACHINE SCREWS (METAL), BEAM CLAMPS (FRAMEWORK), WOOD SCREWS (WOOD) OR PAN THRU STRAPS (METAL DECK). NAILS, RAWL PLUGS AND WOOD PLUGS ARE NOT PERMITTED. WHERE REQUIRED BY STRUCTURE, PROVIDE THRU BOLTS AND FISH PLATES. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FT APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
6. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES OR APPLIANCES (EXCEPT PIPE CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1 INCH FROM PIPE COVERS).
7. VERIFY LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE.
8. NO CONDUIT SMALLER THAN 3/4", NOR WIRE SIZE SMALLER THAN NO. 12 A.W.G. FOR POWER SHALL BE USED UNLESS OTHERWISE NOTED.
9. ALL 120V BRANCH CIRCUITS GREATER THAN 100 LINEAR FEET SHALL BE #10AWG MIN.
10. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS. RACEWAYS OVER 10 FT LONG IN WHICH WIRING IS NOT INSTALLED: FURNISH FISH WIRE.
11. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
12. PROVIDE ELECTRICAL OUTLET PLATE GASKET SEALS AT RECEPTACLES, SWITCHES, AND OTHER ELECTRICAL BOXES ON EXTERIOR WALLS AND ON INTERIOR WALLS BETWEEN CONDITIONED AND NON-CONDITIONED SPACES.
13. COVERS OF JUNCTION AND PULLBOXES SHALL BE READILY ACCESSIBLE.
14. PROVIDE PULLBOXES WHERE INDICATED, WHERE REQUIRED BY CODE AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE. COORDINATE PULLBOX LOCATIONS WITH OTHER TRADES.
15. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS. COMMON BOXES: PROVIDE BARRIERS BETWEEN EMERGENCY AND NORMAL WIRING.
16. SUPPORT PANEL, JUNCTION AND PULLBOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAYS.
17. INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
18. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION. PUTTY PADS SHALL BE INSTALLED AT RECEPTACLES IN FIRE RATED WALLS AS REQUIRED BY CODE.
19. ALL CIRCUIT NUMBERS INDICATED ON PLANS ARE FOR CLARITY ONLY, FIELD CONDITIONS PREVAIL.
20. ALL TERMINATION LUGS SHALL BE SIZED ACCORDINGLY TO ACCOMMODATE INDICATED CONDUCTORS.
21. CONTRACTOR SHALL TEST AND BALANCE ELECTRICAL PANELS ASSOCIATED WITH NEW WORK TO A MAXIMUM IMBALANCE OF 10%.
22. ALL CUTTING AND PATCHING SHALL BE FULLY COORDINATED WITH THE GENERAL CONTRACTOR.
23. PANEL DIRECTORIES SHALL BE UPDATED TO CONFORM TO WORK COMPLETED UNDER THIS CONTRACT. UPDATED DIRECTORIES TO BE TYPE-WRITTEN.
24. UPON COMPLETION OF THE WORK, THREE MARKED UP SETS OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE OWNER.
25. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK PRIOR TO SUBMISSION OF A PROPOSAL.
26. THE CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC., AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS.
27. CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELING ON ELECTRICAL EQUIPMENT AS REQUIRED BY NEC 2020 ARTICLE 110.16 AND 110.24.

ELECTRICAL LIGHTING LEGEND

a / 1 / NL — 'a' – FIXTURE CONTROLLED BY SWITCH/OCCPANCY SENSOR 'a'; '1' – DENOTES CIRCUIT NUMBER; 'NL' – DENOTES UNSWITCHED NIGHT LIGHT

REFER TO THIS DRAWING FOR LIGHTING SPECIFICATIONS FOR ALL FIXTURES.

NEW CEILING MOUNTED COMBINATION LED EXIT/EMERGENCY LIGHT WITH BATTERY PACK. DIRECTIONAL ARROWS AS INDICATED ON PLANS. SHADED AREAS INDICATE ILLUMINATED FACE/FACES.
DUAL-LITE LE SERIES MODEL#: 'LECSR' OR APPROVED EQUAL.

NEW WALL MOUNTED COMBINATION LED EXIT/EMERGENCY LIGHT WITH BATTERY PACK. DIRECTIONAL ARROWS AS INDICATED ON PLANS. SHADED AREAS INDICATE ILLUMINATED FACE/FACES.
DUAL-LITE LE SERIES MODEL#: 'LEWSR' OR APPROVED EQUAL.

E — EXISTING WALL MOUNTED COMBINATION EXIT/EMERGENCY SIGN TO REMAIN.

R — RELOCATED WALL MOUNTED COMBINATION EXIT/EMERGENCY SIGN. EXTEND ALL ASSOCIATED WIRING TO NEW LOCATION.

NEW EXTERIOR EMERGENCY REMOTE HEAD. PROVIDE POWER FROM INTERIOR EXIT SIGN.
DUAL-LITE MODEL#: 'EVO-D-W' OR APPROVED EQUAL.

VSa — NEW CEILING MOUNTED VACANCY SENSOR INFRARED/ULTRASONIC DUAL TECHNOLOGY. HUBBELL #'OMNI DT' OR APPROVED EQUAL.
'a' – CONTROLS LIGHTING FIXTURES DESIGNATED 'a'

Sa — NEW CEILING MOUNTED VACANCY SENSOR OVERRIDE SWITCH. PROVIDE ROOM CONTROLLER COMPATIBLE OVERRIDE SWITCH FOR ALL ROOMS EQUIPPED WITH A LIGHTING CONTROL ROOM CONTROLLER.
'a' – CONTROLS LIGHTING FIXTURES DESIGNATED 'a'

øa — NEW WALL MOUNTED OCCUPANCY SENSOR INFRARED/ULTRASONIC DUAL TECHNOLOGY WITH OVERRIDE SWITCH. HUBBELL #AD12771 OR APPROVED EQUAL.
'a' – CONTROLS LIGHTING FIXTURES DESIGNATED 'a'

E — EXISTING WALL MOUNTED OCCUPANCY SENSOR TO REMAIN.

$3a — NEW WALL MOUNTED LIGHT SWITCH
'3' – DENOTES THREE WAY SWITCH
'a' – CONTROLS LIGHTING FIXTURES DESIGNATED 'a'

E $ — EXISTING WALL SWITCH TO REMAIN.

R $ — RELOCATED WALL SWITCH. EXTEND ALL ASSOCIATED WIRING TO NEW LOCATION.

LIGHTING FIXTURE SCHEDULE

INTERIOR LIGHTING

R1 — NEW RECESSED 2'X2' LED LIGHTING FIXTURE. AXIS LIGHTING MODEL#: 'AULED-22'.

R2 — NEW 4" RECESSED LED DOWNLIGHT. PRESCOLITE MODEL#: 'LTR-4RD'.

P1 — NEW 29" PENDANT LIGHTING FIXTURE. SCOTT ARCHITECTURAL LIGHTING MODEL#: 'S2235-L60'.

P2 — NEW PENDANT LED LIGHTING FIXTURE. AXIS LIGHTING BEAM 6 MODEL#: 'B6DILED'.

S1 — NEW WALL SCONCE LED LIGHTING FIXTURE. MODERN FORMS I BEAM MODEL#: 'WS-94614'.

W1 — NEW WALL MOUNTED LIGHTING FIXTURE. REFER TO ARCHITECTURAL DRAWINGS FOR LIGHTING SPECIFICATIONS.

EX.1 — EXISTING RECESSED DOWNLIGHT TO REMAIN. RETROFIT WITH LED. PRESCOLITE MODEL#: 'RLC6SL'.

EXTERIOR LIGHTING

R2 — NEW EXTERIOR WET LOCATION 4" RECESSED LED DOWNLIGHT. PRESCOLITE MODEL#: 'LTR-4RD'.

S2 — NEW EXTERIOR WET LOCATION WALL SCONCE LED LIGHTING FIXTURE. MODERN FORM ELEVATION MODEL#: 'WS-W5222-BZ'.

S3 — NEW EXTERIOR WET LOCATION SPOTLIGHT LED LIGHTING FIXTURE. MP LIGHTING MODEL#: 'L730'.

ELECTRICAL POWER LEGEND

1 GFI +XX" — NEW WALL MOUNTED 20A, 120V DUPLEX RECEPTACLE.
'GFI' – DENOTES GROUND FAULT INTERRUPTER
'+XX" – DENOTES MOUNTING HEIGHT XX" AFF.
'1' – DENOTES CIRCUIT NUMBER

E — EXISTING WALL MOUNTED 20A, 120V DUPLEX RECEPTACLE TO REMAIN.

1 +XX" — NEW DEDICATED WALL MOUNTED 20A, 120V DUPLEX RECEPTACLE.
'+XX" – DENOTES MOUNTING HEIGHT XX" AFF.
'1' – DENOTES CIRCUIT NUMBER

1 GFI +XX" — NEW WALL MOUNTED 20A, 120V QUADRUPLEX RECEPTACLE.
'GFI' – DENOTES GROUND FAULT INTERRUPTER
'+XX" – DENOTES MOUNTING HEIGHT XX" AFF.
'1' – DENOTES CIRCUIT NUMBER

E — EXISTING WALL MOUNTED 20A, 120V QUADRUPLEX RECEPTACLE TO REMAIN.

FB — NEW RECESSED FLUSH FLOORBOX TO PROVIDE POWER TO NEW TABLE. CONTRACTOR SHALL TRENCH CONCRETE FLOOR TO INSTALL NEW FLOOR BOX. COORDINATE EXACT LOCATION WITH FURNITURE VENDOR. WIREMOLD MODEL#: EFB6S OR APPROVED EQUAL.

GFI WM — NEW STEEL FURNITURE/WALL MOUNTED SURFACE RACEWAY WITH WIRING DEVICES. RACEWAY SHALL BE MOUNTED ABOVE WORKING SURFACES AT 44" AFF. COORDINATE ALL ROUTING WITH FURNITURE VENDOR. WIREMOLD SERIES 4000 OR APPROVED EQUAL. WIREMOLD END JUNCTION BOXES SHALL BE SIZED PER NEC. ALL WIRING DEVICES SHALL BE COMPATIBLE WITH RACEWAY SYSTEM.

+XX" — NEW WALL MOUNTED VOICE/DATA DEVICE WITH 1"C. STUBBED UP TO 6" ABOVE NEAREST ACCESSIBLE FINISH CEILING.
'+XX" – DENOTES MOUNTING HEIGHT XX" AFF.

E — EXISTING WALL MOUNTED VOICE/DATA DEVICE TO REMAIN.

+XX — NEW WALL MOUNTED DATA DEVICE WITH 1"C. STUBBED UP TO 6" ABOVE NEAREST ACCESSIBLE FINISH CEILING.
'+XX' – DENOTES MOUNTING HEIGHT XX" AFF.

E TV — EXISTING COAX CABLE DEVICE TO REMAIN.

NEW SURFACE MOUNTED ELECTRICAL PANEL.

PANEL(X,X) — NEW BRANCH CIRCUIT HOMERUN TO ELECTRIC PANEL. HALF ARROWS INDICATE NUMBER OF CIRCUITS.

J — NEW WALL MOUNTED JUNCTION BOX SIZED PER NEC.

$_T — NEW SWITCH WITH THERMAL OVERLOAD PROTECTION FOR FRACTIONAL HORSEPOWER MOTORS.

30/3 — NEW UNFUSED DISCONNECT SWITCH
30/3 – DENOTES 30 AMP/3-POLE SWITCH

FIRE ALARM LEGEND

FA xx — NEW FIRE ALARM SYSTEM VISUAL ALARM; MOUNT AT 80" AFF.
'XX' – DENOTED CANDELA RATING OF STROBE DEVICE

SD — NEW SYSTEM TYPE AUTOMATIC FIRE ALARM SMOKE DETECTOR.

SD E — EXISTING SMOKE DETECTOR TO REMAIN.

SD R — RELOCATED SMOKE DETECTOR. EXTEND ALL ASSOCIATED WIRING TO NEW LOCATION.

F E — EXISTING FIRE ALARM PULL STATION TO REMAIN.

F E — EXISTING FIRE ALARM HORN/STROBE DEVICE TO REMAIN.

F R — RELOCATED FIRE ALARM HORN/STROBE DEVICE. EXTEND ALL ASSOCIATED WIRING TO NEW LOCATION.

ELECTRICAL DRAWING INDEX

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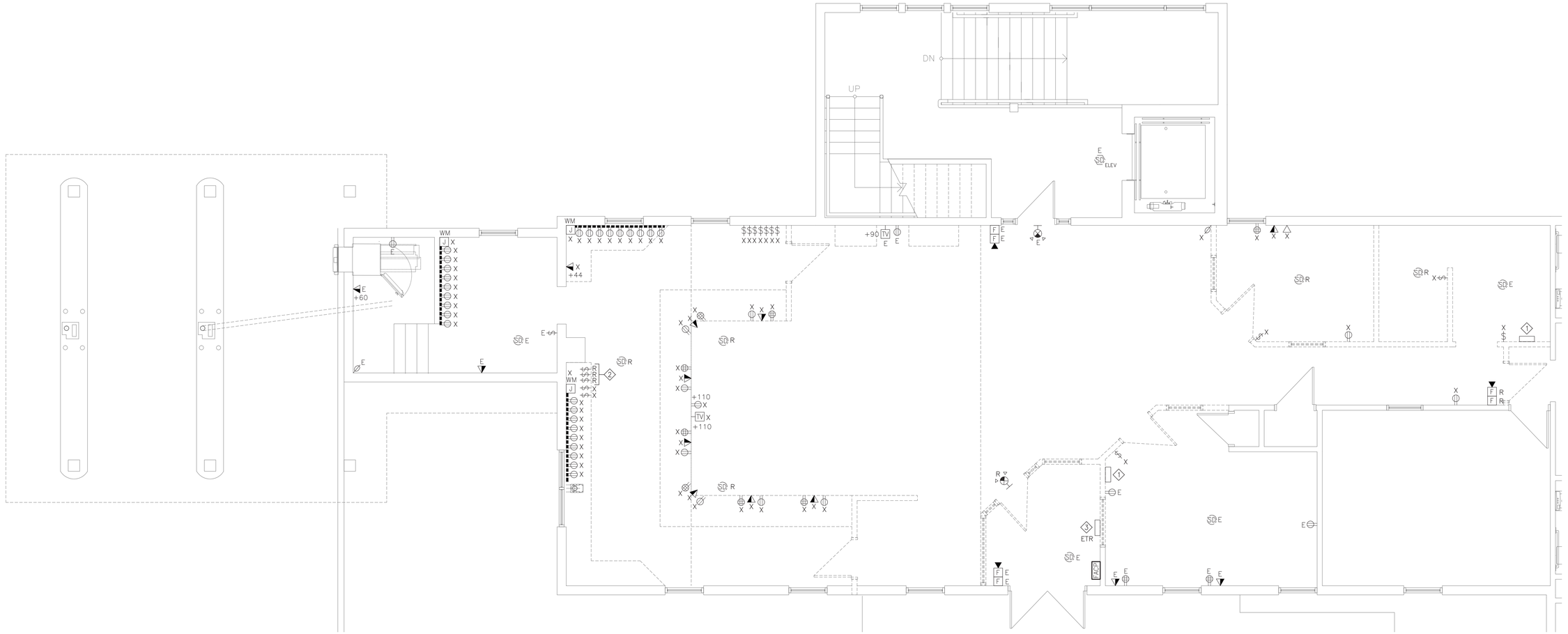
ELECTRICAL NOTES & LEGEND



1 ELECTRICAL DEMOLITION PLAN

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

ELECTRICAL POWER DEMOLITION KEYNOTES

1. EXISTING ALARM PANEL SHALL BE RELOCATED. EXTEND ALL ASSOCIATED CONDUIT AND WIRING TO NEW LOCATION. REFER TO DRAWING E1.03 FOR NEW LOCATION.
2. EXISTING LIGHTING SWITCHES FOR CANOPY LIGHTS TO BE RELOCATED. EXTEND ALL ASSOCIATED CONDUIT AND WIRING TO NEW LOCATION. REFER TO DRAWING E1.02 FOR NEW LOCATION.
3. EXISTING WALL MOUNTED ELECTRIC UNIT HEATER TO BE REMOVED AND REINSTALLED ON NEW WALL. CONTRACTOR SHALL REUSE EXISTING ELECTRIC UNIT HEATER POWER CIRCUIT.

ELECTRICAL DEMOLITION LEGEND

NOTES:

1. REFER TO DRAWING E0.01 FOR ELECTRICAL DEMOLITION NOTES.

- R — EXISTING WALL MOUNTED COMBINATION EXIT/EMERGENCY SIGN TO BE RELOCATED. EXTEND ALL ASSOCIATED WIRING TO NEW LOCATION. REFER TO DRAWING E1.03 FOR NEW LOCATION.
- E — EXISTING WALL MOUNTED COMBINATION EXIT/EMERGENCY SIGN TO REMAIN.
- X $ — EXISTING WALL SWITCH TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE.
- R $ — EXISTING WALL SWITCH TO BE RELOCATED. EXTEND ALL ASSOCIATED WIRING TO NEW LOCATION. REFER TO DRAWING E1.02 FOR NEW LOCATION.
- E $ — EXISTING WALL SWITCH TO REMAIN.
- X — EXISTING WALL MOUNTED OCCUPANCY SENSOR TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE.
- E — EXISTING WALL MOUNTED OCCUPANCY SENSOR TO REMAIN.
- X — EXISTING WALL MOUNTED 20A, 120V DUPLEX RECEPTACLE TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE.
- E — EXISTING WALL MOUNTED 20A, 120V DUPLEX RECEPTACLE TO REMAIN.
- X — EXISTING WALL MOUNTED 20A, 120V QUADRUPLEX RECEPTACLE TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE.
- E — EXISTING WALL MOUNTED 20A, 120V QUADRUPLEX RECEPTACLE TO REMAIN.
- X J X — EXISTING WIREMOLD RACEWAY TO BE REMOVED.
- X — EXISTING WALL MOUNTED VOICE/DATA DEVICE TO BE REMOVED. REMOVE ALL WIRING BACK TO LOCAL HUB.
- E — EXISTING WALL MOUNTED VOICE/DATA DEVICE TO REMAIN.
- X — EXISTING WALL MOUNTED VOICE DEVICE TO BE REMOVED. REMOVE ALL WIRING BACK TO LOCAL HUB.
- X TV — EXISTING COAX CABLE DEVICE TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE.
- E TV — EXISTING COAX CABLE DEVICE TO REMAIN.
- FACP — EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
- F X — EXISTING FIRE ALARM PULL STATION TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE.
- F E — EXISTING FIRE ALARM PULL STATION TO REMAIN.
- F R — EXISTING FIRE ALARM HORN/STROBE DEVICE TO BE RELOCATED. EXTEND ALL ASSOCIATED WIRING TO NEW LOCATION. REFER TO DRAWING E1.03 FOR NEW LOCATION.
- F E — EXISTING FIRE ALARM HORN/STROBE DEVICE TO REMAIN.
- SD R — EXISTING SMOKE DETECTOR TO BE RELOCATED. EXTEND ALL ASSOCIATED WIRING TO NEW LOCATION. REFER TO DRAWING E1.03 FOR NEW LOCATION.
- SD E — EXISTING SMOKE DETECTOR TO REMAIN.

ELECTRICAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF ELECTRICAL WORK AS DESCRIBED IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORSEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT WHERE CONSIDERED JUSTIFIABLE BY THE ENGINEER.
2. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS IN FULL COORDINATION WITH THE ENGINEER'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY.
3. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED BUILDING SURFACE TO ITS ORIGINAL CONDITION.
5. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL LIGHTING, RECEPTACLES SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUITS, ETC., FROM PARTITIONS OR CEILING THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD.
6. ALL REUSED RACEWAYS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
7. ALL UNUSED CONCEALED OUTLET BOXES OR FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.
8. EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.
9. PORTIONS OF FEEDER RUNS TO BE REMOVED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS, CABLE TYPE, CONDUCTOR AMPACITY, CONDUIT SIZES, ETC.
10. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW CLOSELY THE ENGINEER'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR, AS DIRECTED BY THE OWNER.
12. EXISTING CONDUITS ROUTED IN SLAB AND TURNING OUT OF SLAB SHALL BE CUT BACK TO 1" INTO SLAB AND OPENING PATCHED.
13. ALL EXISTING UNUSED WIRING SHALL BE DISCONNECTED AT EACH END AND REMOVED.
14. CONTRACTOR SHALL DISCONNECT POWER TO ALL MECHANICAL EQUIPMENT BEING TAKEN OUT OF OPERATION. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO DEMOLITION.

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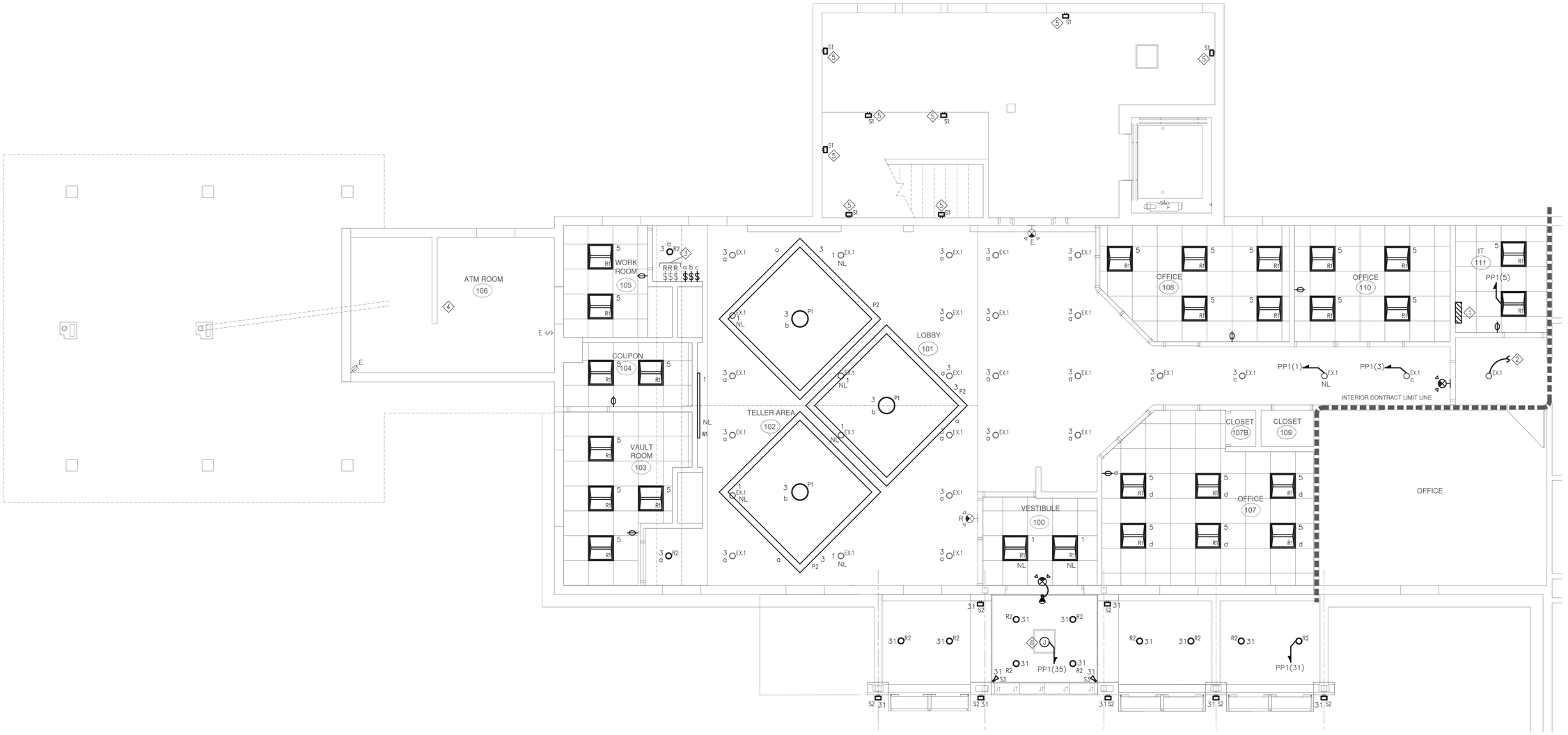
ELECTRICAL DEMOLITION PLAN



1 ELECTRICAL LIGHTING PLAN

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

ELECTRICAL KEYNOTES

1. NEW PANEL 'PP1' 100A, 120/208V, 3ø, 4W., 42–POLE.
2. CONTRACTOR SHALL CONNECT EXISTING LIGHTING FIXTURE TO EXISTING HALLWAY LIGHTING CIRCUIT AND SWITCHING IN THIS AREA.
3. RELOCATED LIGHTING SWITCHES FOR CANOPY LIGHTS.
4. EXISTING LIGHTING AND SWITCHING IN THIS AREA TO REMAIN AS IS.
5. NEW LIGHT FIXTURE TO REPLACE EXISTING LIGHT FIXTURE AT THIS LOCATION. REUSE EXISTING LIGHTING CIRCUIT AND SWITCHING.
6. NEW CEILING JUNCTION BOX FOR BRANDING SCULPTURE.

ELECTRICAL LIGHTING NOTES

1. CONTRACTOR SHALL REFER TO DRAWING E0.01 FOR DEMOLITION NOTES. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH ARCHITECTURAL DRAWINGS.
2. CIRCUIT NUMBERS SHOWN ARE FOR REFERENCE ONLY.
3. CONTRACTOR SHALL CIRCUIT (2)#12+#12 GRD. IN 3/4"C. TO PANEL AND CIRCUIT INDICATED, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL REUSE EXISTING 20A, 1 POLE CIRCUIT BREAKERS FREED BY DEMOLITION IN EXISTING PANELS. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. NEW CIRCUIT BREAKERS TO BE BOLT–ON TYPE MATCHING EXISTING TYPE & KAIC RATING.
5. ALL LIGHTING FIXTURES OUTSIDE THE AREA OF WORK SHALL REMAIN AS IS, MAINTAIN CIRCUITS CONTINUITY AND FUNCTIONALITY.
6. ALL NEW WALL MOUNTED EMERGENCY LIGHTING UNITS, EXIT SIGNS AND COMBINATION EXIT/EM FIXTURES, SHALL BE CONNECTED TO THE 'HOT' UNSWITCHED SIDE OF THE LIGHTING CIRCUIT IN THE AREA THE FIXTURE IS COVERING.
7. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND FREQUENCY OF ALL CEILING MOUNTED AND WALL MOUNTED OCCUPANCY SENSORS WITH MANUFACTURER PRIOR TO INSTALLATION. LOCATION OF SENSORS ARE DIAGRAMMATIC, CONTRACTOR SHALL LOCATE AND AIM SENSOR IN LOCATION REQUIRED FOR COMPLETE AND PROPERLY FUNCTIONING COVERAGE WITHIN RANGE OF SENSOR. PROVIDE ALL POWER RACKS, WIRE CONTROL HARDWARE AND EQUIPMENT TO PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL SYSTEM. TYPICAL FOR ALL SENSORS INDICATED.
8. CEILING MOUNTED OR WALL MOUNTED OCCUPANCY SENSORS SHALL CONTROL LIGHTING IN THE ENTIRE ROOM, UNLESS OTHERWISE NOTED.
9. COORDINATE ALL LIGHTING SWITCH LOCATIONS WITH ARCHITECT.
10. LIGHTING CIRCUIT PP1(3) SHALL BE CONTROLLED BY TIMECLOCK. REFER TO DRAWING E2.02 FOR 'TIMECLOCK WIRING DETAIL.' OVERRIDE SWITCH SHALL BE LOCATED BY LIGHTING SWITCHES IN TELLER AREA. TIMECLOCK SHALL BE LOCATED ADJACENT TO NEW PANEL 'PP1.'
11. ALL EXTERIOR LIGHT FIXTURES SHALL BE PROVIDED POWER FROM CIRCUIT PP1(31) AND SHALL BE CONTROLLED BY ASTRONOMICAL TIMECLOCK. REFER TO DRAWING E2.02 FOR 'EXTERIOR LIGHTING TIMECLOCK WITH PHOTOCELL DETAIL'.

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

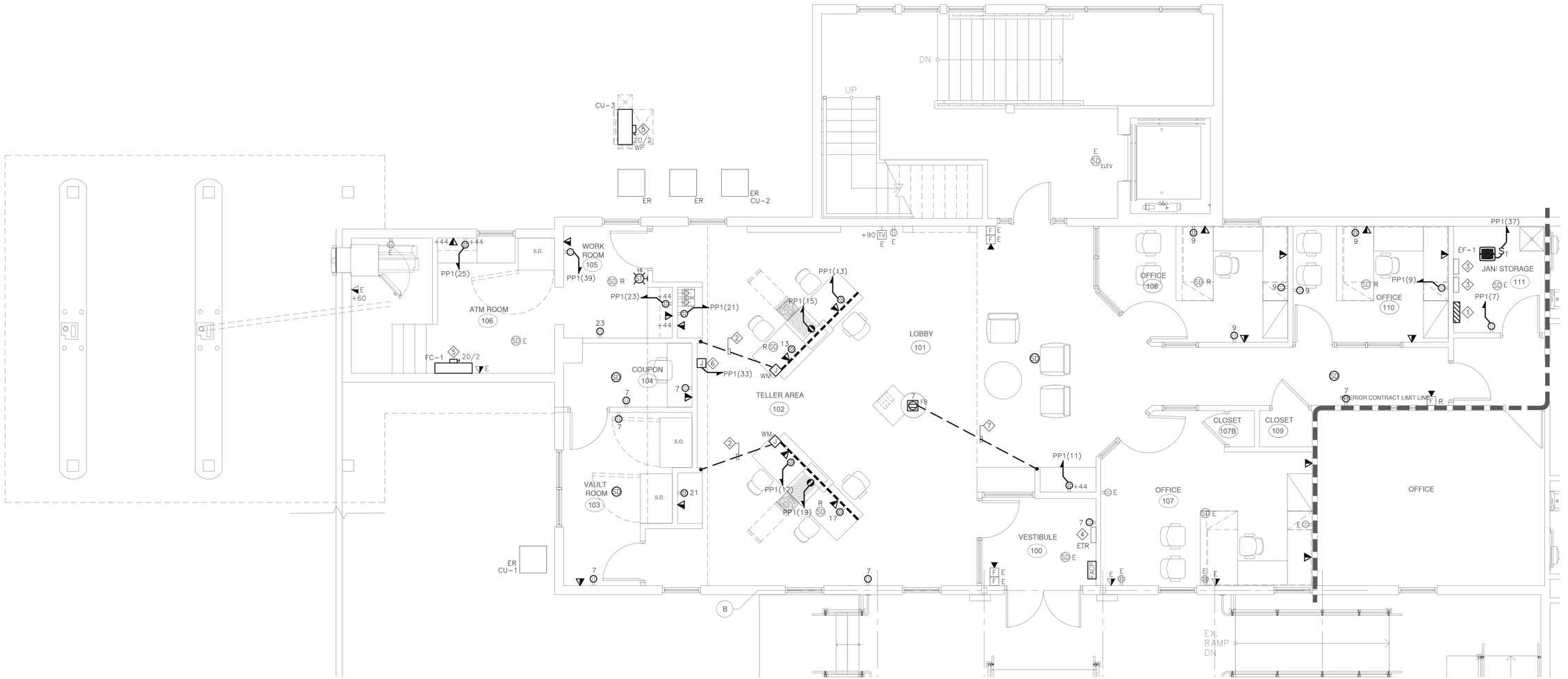
Scale: AS NOTED

Project No. 2K20.015

Drawn by: VH

E1.02

ELECTRICAL LIGHTING PLAN



1 ELECTRICAL POWER PLAN

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

ELECTRICAL KEYNOTES

1. NEW PANEL 'PP1' 100A, 120/208V, 3ø, 4W., 42-POLE.
2. CONTRACTOR SHALL ROUTE A 3/4"C. FOR POWER AND A 1-1/4"C. FOR DATA UNDERSLAB FROM WALL TO FURNITURE SYSTEM TO FEED NEW WIREMOLD IN FURNITURE SYSTEM. CONDUIT FOR DATA SHALL BE STUBBED UP 6" ABOVE FINISHED CEILING WITH GROMMETTED END. COORDINATE ROUTING OF CONDUIT WITH FURNITURE VENDOR AND ARCHITECT.
3. RELOCATED ALARM PANEL.
4. EXISTING WALL MOUNTED ELECTRIC UNIT HEATER TO BE REMOVED AND REINSTALLED ON NEW WALL. CONTRACTOR SHALL REUSE EXISTING ELECTRIC UNIT HEATER POWER CIRCUIT.
5. CONTRACTOR SHALL PROVIDE POWER TO NEW FAN COIL UNIT 'FC-1' FROM CIRCUITS PP1(27,29) AND BE FED BY (3)#12+#12 GRD. IN 3/4"C. NEW ASSOCIATED CONDENSING UNIT 'CU-1'SHALL BE PROVIDED POWER FROM CIRCUITS PP1(27,29) AND BE FED BY (3)#12+#12 GRD. IN 3/4"C. COORDINATE ALL WORK AND REQUIREMENTS WITH MECHANICAL CONTRACTOR. REFER TO DRAWING E2.02 FOR 'SPLIT SYSTEM TYPE HVAC UNIT DETAIL".
6. NEW JUNCTION BOX FOR POWER AT BRANDING WALL. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS.
7. CONTRACTOR TO TRENCH CONCRETE FLOOR TO BURY 3/4" C. FOR POWER TO CLOSEST WALL/COLUMN IN CONCRETE. COORDINATE EXACT LOCATION OF FLOOR BOX WITH FURNITURE VENDOR / ARCHITECT.

ELECTRICAL POWER NOTES

1. CONTRACTOR SHALL REFER TO DRAWING E0.01 FOR DEMOLITION NOTES. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH ARCHITECTURAL DRAWINGS.
2. CIRCUIT NUMBERS ARE FOR DIAGRAMMATIC PURPOSE ONLY.
3. ALL ELECTRICAL DEVICES SHALL BE MOUNTED 18" AFF, U.O.N.
4. CONTRACTOR SHALL CIRCUIT (2)#12+#12 GRD. IN 3/4"C. TO PANEL AND CIRCUIT INDICATED, UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL REUSE EXISTING 20A, 1 POLE CIRCUIT BREAKERS FREED BY DEMOLITION IN EXISTING PANELS. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. NEW CIRCUIT BREAKERS TO BE BOLT-ON TYPE MATCHING EXISTING TYPE & KAIC RATING.
6. CONTRACTOR SHALL RUN 1" EMPTY CONDUIT TO NEAREST ACCESSIBLE HUNG CEILING WITH GROMMETED END FITTING FOR TELEPHONE/DATA DEVICE LOCATION. PROVIDE DRAG LINES FOR EMPTY CONDUIT.
7. CONTRACTOR TO REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION AND EXACT REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. CONTRACTOR TO COORDINATE ALL WORK WITH MECHANICAL AND PLUMBING CONTRACTORS.

FIRE ALARM NOTES

1. PROVIDE NEW FIRE ALARM DEVICES AND WIRING AS INDICATED ON FLOOR PLANS AND RISER. ALL FIRE ALARM WIRING SHALL BE #14 TWISTED FOR STROBES PANEL #16 TWISTED/SHIELDED FOR SPEAKERS. (PLENUM RATED.)
2. CONTRACTOR SHALL EXTEND FIRE ALARM WIRING AND CONDUIT TO NEW FIRE ALARM DEVICES. ALL NEW FIRE ALARM DEVICES SHALL BE ADA COMPLIANT. ALL FIRE ALARM DEVICES IN THE AREA OF WORK SHALL BE SYNCHRONIZED. WHERE EXISTING FIRE ALARM DEVICES DO NOT HAVE SYNCHRONIZING ABILITY THE FIRE ALARM DEVICE SHALL BE REPLACED WITH NEW.
3. THE NEW FIRE ALARM SYSTEMS SHALL BE AN EXTENSION OF THE EXISTING BASE BUILDING FIRE ALARM SYSTEM. ALL NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE BASE BUILDING FIRE ALARM SYSTEM. COORDINATE ALL WORK WITH THE BASE BUILDING FIRE ALARM VENDOR. ALL FIRE ALARM WIRING SHALL BE CONFIRMED WITH FIRE ALARM VENDOR PRIOR TO INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR PROGRAMING/MODIFYING, UPGRADING, CONTROL MODULES, ETC. AS REQUIRED TO PROVIDE A COMPLETE AND CODE COMPLIANT SYSTEM. ELECTRICAL CONTRACTOR SHALL HIRE BUILDING FIRE ALARM VENDOR TO DO FINAL FIRE ALARM CONNECTIONS. CONTRACTOR RESPONSIBLE TO INSTALL END OF LINE RESISTOR FOR NEW DEVICES. PROVIDE CONTROL PANEL PARTS AS REQUIRED.
5. CONTRACTOR IS RESPONSIBLE FOR ALL FIRE ALARM PERMIT AND INSPECTION COST.
6. PROVIDE A DOOR RELEASE CONNECTION SIGNAL FROM THE BASE BUILDING FIRE ALARM SYSTEM TO THE SECURITY DOOR SYSTEM CONTROL PANEL FOR FAIL SAFE DOOR RELEASE FOR ALL DOORS WITH SECURITY DEVICES (TYP.). COORDINATE WORK WITH THE SECURITY CONSULTANT.
7. CONTRACTOR TO CONFIRM THAT EXISTING FIRE ALARM PANEL IS ADEQUATE TO HANDLE NEW FIRE ALARM STROBES. IF INADEQUATE, CONTRACTOR SHALL PROVIDE AND INSTALL A NEW STROBE INTERFACE PANEL WITH (2) STROBE CIRCUITS TO ACCOMMODATE NEW FIRE ALARM STROBES.
8. BUILDING FIRE ALARM SYSTEM TO REMAIN ACTIVE DURING CONSTRUCTION. ELECTRICAL CONTRACTOR SHALL NOTIFY BUILDING OWNER IF CONSTRUCTION FLOORS ARE TAKEN OFF SYSTEM. ELECTRICAL CONTRACTOR TO PAY ANY COST ASSOCIATED WITH ANY FIRE WATCH REQUIRED BY LOCAL OFFICIALS DURING THE TIME THAT SYSTEM IS OFF LINE.
9. PROVIDE REMOTE ALARM INDICATOR OVER DOOR OF EACH LOCKED ROOM THAT CONTAINS A SMOKE OR HEAT DETECTOR WHETHER OR NOT SHOWN ON THE FLOOR PLANS: SUCH AS, ELEVATOR MACHINE ROOMS, ELECTRIC ROOMS, MECHANICAL ROOMS, IT ROOMS, ETC.

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

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Drawn by: VH

E1.03

ELECTRICAL POWER PLAN

PANEL: MDP (EXISTING)
LOCATION: BASEMENT
BUILDING: 901 ETHAN ALLEN HWY.

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ■ SURFACE ☐ FLUSH

MAIN BUS 800 AMPS
☐ MCB ■ MLO
MAIN BRK — AMPS — P
KAIC RATING —

CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
1	–	EXISTING	–	–			–	EXISTING	–	2
3	–	EXISTING	–		–		–	EXISTING	–	4
5	–	EXISTING	–			–	–	EXISTING	–	6
7	–	EXISTING	–	–			–	EXISTING	–	8
9	–	EXISTING	–		–		–	EXISTING	–	10
11	–	EXISTING	–			–	–	EXISTING	–	12
13	–	EXISTING	–	–			–	EXISTING	–	14
15	–	EXISTING	–		–		–	EXISTING	–	16
17	–	EXISTING	–			–	–	EXISTING	–	18
19	–	EXISTING	–	–			–	EXISTING	–	20
21	–	EXISTING	–		–		–	EXISTING	–	22
23	–	EXISTING	–			–	–	EXISTING	–	24
25	–	EXISTING	–	–			–	EXISTING	–	26
27	–	EXISTING	–		–		–	EXISTING	–	28
29	–	EXISTING	–			–	–	EXISTING	–	30
31	–	EXISTING	–	–			–	NEW PANEL 'PP1'	100 / 3P	32
33	–	EXISTING	–		–		–			34
35	–	EXISTING	–			–	–			36
				–	–	–				
				–						

PANEL: PP1 (NEW)
LOCATION: IT ROOM
BUILDING: 901 ETHAN ALLEN HWY.

120/208 VOLTS, 3 PHASE, 4 WIRE
MOUNTING : ■ SURFACE ☐ FLUSH

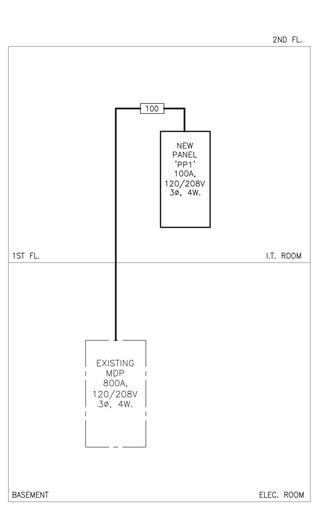
MAIN BUS 100 AMPS
☐ MCB ■ MLO
MAIN BRK — AMPS — P
KAIC RATING —

	CKT. NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER PHASE (KVA) A	B	C	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CKT. NO.
	1	20	LIGHTING	–	–			–	SPACE	–	2
*	3	20	LIGHTING	–		–		–	SPACE	–	4
	5	20	LIGHTING	–			–	–	SPACE	–	6
	7	20	RECEPTACLES	–	–			–	SPACE	–	8
	9	20	RECEPTACLES	–		–		–	SPACE	–	10
	11	20	COFFEE MACHINE	–			–	–	SPACE	–	12
	13	20	RECEPTACLES	–	–			–	SPACE	–	14
	15	20	RECEPTACLES	–		–		–	SPACE	–	16
	17	20	RECEPTACLES	–			–	–	SPACE	–	18
	19	20	RECEPTACLES	–	–			–	SPACE	–	20
	21	20	RECEPTACLES	–		–		–	SPACE	–	22
	23	20	RECEPTACLES	–			–	–	SPACE	–	24
	25	20	RECEPTACLES	–	–			–	SPACE	–	26
	27	20 / 3P	FC-1/CU-1	–		–		–	SPACE	–	28
	29			–			–	–	SPACE	–	30
**	31	20	EXTERIOR LIGHTING	–	–			–	SPACE	–	32
	33	20	BRANDING WALL	–		–		–	SPACE	–	34
	35	20	BRANDING SCULPTURE	–			–	–	SPACE	–	36
	37	20	EF-1	–	–			–	SPACE	–	38
	39	20	COPIER	–		–		–	SPACE	–	40
	41	–	SPACE	–			–	–	SPACE	–	42
					–	–	–				
					–						

NOTES:

* 1. LIGHTING CIRCUIT PP1(3) SHALL BE CONTROLLED BY TIMECLOCK. REFER TO DRAWING E2.02 FOR 'TIMECLOCK WIRING DETAIL.' OVERRIDE SWITCH SHALL BE LOCATED BY LIGHTING SWITCHES BEHIND TELLERS. TIMECLOCK SHALL BE LOCATED ADJACENT TO NEW PANEL 'PP1.'

** 2. ALL EXTERIOR LIGHT FIXTURES SHALL BE PROVIDED POWER FROM CIRCUIT PP1(31) AND SHALL BE CONTROLLED BY ASTRONOMICAL TIMECLOCK. REFER TO THIS DRAWING FOR 'EXTERIOR LIGHTING TIMECLOCK WITH PHOTOCELL DETAIL'.



1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

FEEDER LEGEND

100	(4)#3 + #8 GRD. IN 1-1/4"C.

ALL WIRE SIZES ARE BASED ON COPPER FEEDERS UNLESS OTHERWISE SPECIFIED.

UPGRADE FEEDERS AS NEEDED FOR NO MORE THAN 3% VOLTAGE DROP.

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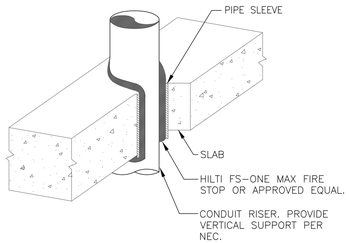
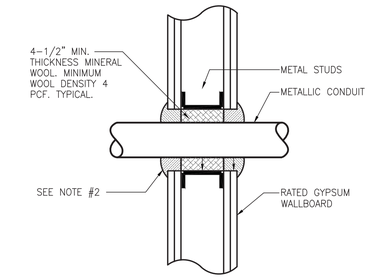
E2.01
ELECTRICAL PANEL SCHEDULES & RISER DIAGRAM



1 VERTICAL CONDUIT PENETRATION DETAIL

NOT TO SCALE

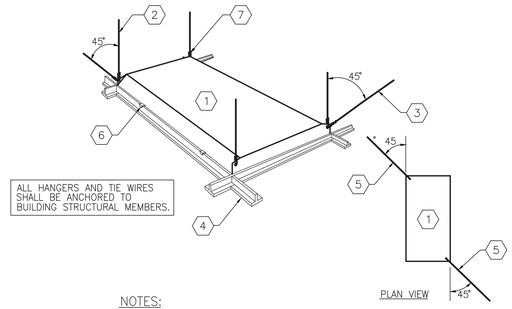


NOTES:

1. CONDUIT SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN CONDUIT AND WALL OPENING SHALL BE 0" TO A MAXIMUM OF 1"
2. HILTI FS-ONE MAX FIRESTOP PUTTY OR APPROVED EQUAL. MIN. 5/8" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH BOTH SURFACES OF WALL. AT POINT CONTACT LOCATION BETWEEN PENETRANT AND WALL. A 1/4" CROWN OF FILL MATERIAL SHALL BE APPLIED AT THE CONDUIT/WALL INTERFACE ON BOTH SIDES OF THE ASSEMBLY. LAPPING 1/4" ON THE CONDUIT AND 1/4" BEYOND THE PERIPHERY OF THE OPENING.
3. ASSEMBLY SHALL BE INSTALLED TO COMPLY WITH UL FIRESTOP ASSEMBY WL1175.

2 TYPICAL CONDUIT GYPSUM WALL PENETRATION DETAIL

NOT TO SCALE

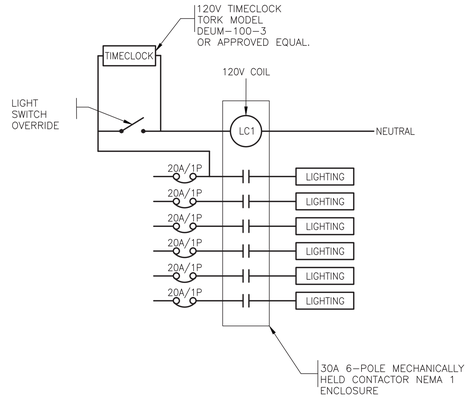


NOTES:

1. RECESSED FLUORESCENT LIGHT FIXTURE
2. #12 AWG HANGER WIRE (VERTICAL AT FOUR CORNERS)
3. #12 AWG TIE WIRE (45° DIAGONAL AT OPPOSITE CORNERS)
4. T-BAR GRID (TYPICAL)
5. TIE WIRE
6. CADDY T-BAR CLIP FOR SECURING FIXTURE TO T-BAR GRID (4/FIXT.)
7. MINIMUM 4 TURNS WITHIN FIRST 1-1/2" (VERTICAL)

3 RECESSED LAY-IN FIXTURE SEISMIC BRACING

NOT TO SCALE

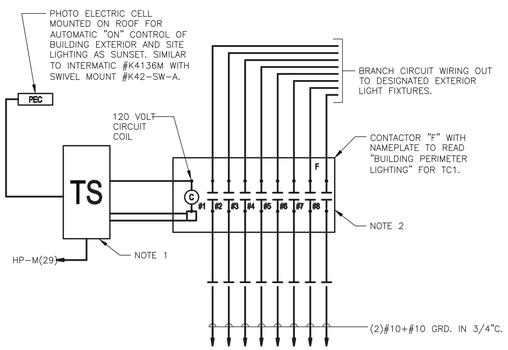


NOTES:

1. PROVIDE OVERRIDE SWITCH. COORDINATE EXACT LOCATION WITH BUILDING PERSONNEL.

4 TIMECLOCK WIRING DIAGRAM

NOT TO SCALE

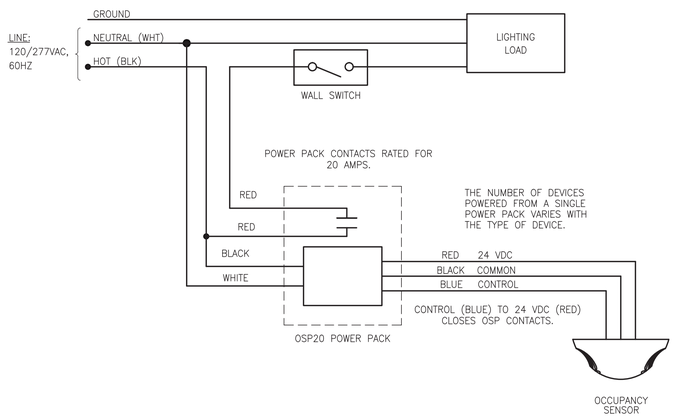


NOTES:

1. ELECTRONIC LIGHTING CONTROL TIME CLOCK WITH ASTRO DIAL TYPE COMPUTER PROGRAMMING 2-CHANNEL. TIME CLOCK SHALL OPERATE ON 277 VOLTS AND BE MOUNTED IN NEMA 1 ENCLOSURE. TIME CLOCK SHALL BE SIMILAR TO INTERMATIC NO. ET70815CR. PROVIDE WITH PHOTOCELLAND RELAY COIL FOR AUTOMATIC "ON" CONTROL OF PERIMETER LIGHTING DURING HOURS OF DARKNESS.
2. PROVIDE WITH OVERRIDE CAPABILITY OPTION #156ET9402A.
3. PROVIDE CONTACTOR RATED FOR 277 VOLT AND 120 VOLT LIGHTING.

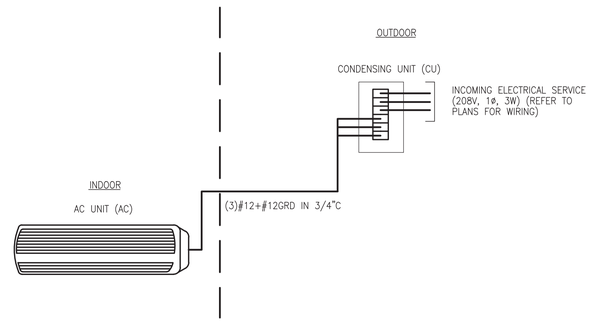
5 EXTERIOR LIGHTING TIMECLOCK WITH PHOTOCELL DETAIL

NOT TO SCALE



6 OCCUPANCY SENSOR WIRING DIAGRAM

NOT TO SCALE



NOTES:

1. PROVIDE LOCAL MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION AT INDOOR UNIT.
2. REFER TO FLOOR PLANS AND MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT.
3. ALL WIRING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. RUN AN ADDITIONAL 3/4"C FROM CONDENSING UNIT TO AC UNIT FOR CONTROL WIRING.

7 SPLIT SYSTEM TYPE HVAC UNIT DETAIL

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E2.02

ELECTRICAL DETAILS

ELECTRICAL SPECIFICATIONS

PART 1– GENERAL

1. GENERAL REQUIREMENTS:

   A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.

   B. ALL APPLICABLE CODES, LAWS, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.

   C. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS BUT MENTIONED IN SPECIFICATIONS, OR VISE VERSA, OR ITEMS AND SERVICES NECESSARY TO RENDER THE WORK COMPLETE AND READY FOR OPERATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

   D. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE EXISTING BASE BUILDING CONSTRUCTION STANDARDS.

   E. PRIOR TO SUBMISSION OF BID THE CONTRACTOR SHALL VISIT THE JOB SITE AND ASCERTAIN THE ACTUAL FIELD CONDITIONS AS THEY RELATE TO THE WORK AS INDICATED ON THE DRAWINGS AND DESCRIBED HEREIN.

   F. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON–SITE INSPECTION SHALL VERIFY EXISTING CONDUIT (SIZES, CLEARANCES, ETC) AND CONDITIONS.

   G. INVESTIGATE EACH SPACE THOROUGHLY TO DETERMINE WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM THE MANUFACTURER IN SECTIONS IN SIZES SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. DETERMINE FROM BUILDING OWNER AND/OR TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.

   H. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS. COORDINATION WITH EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES, IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.

   I. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.

   J. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES AND CHARGES IN MAKING UP THE WORK PROPOSAL.

   K. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AT NO ADDITIONAL CHARGES, AT TIMES NOT TO NTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. ALARM AND EMERGENCY SYSTEMS SHALL NOT BE INTERRUPTED. MAINTAIN ONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

   L. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER ORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.

   M. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.

   N. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF CONDUIT AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AS REQUIRED.

   O. ALL EXISTING MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.

   P. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.

   Q. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.

   R. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.

   S. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.

   T. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.

   U. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHT FIXTURES SHALL BE VERIFIED WITH ARCHITECT.

   V. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

2. SCOPE OF WORK:

   A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

   B. THE SCOPE OF WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

      1) DISCONNECTION AND REMOVAL OF ELECTRICAL EQUIPMENT AS REQUIRED FOR NEW INSTALLATION, INCLUDING ALL CONDUCTORS AND CONDUIT BACK TO THEIR SOURCE.

      2) PROVIDING OF LIGHT FIXTURES AND LAMPS INCLUDING EXIT AND EMERGENCY LIGHTING AND ALL ASSOCIATED COMPONENTS AND BRANCH CIRCUITING.

      3) PROVIDING FOR NEW RACEWAYS AND CONDUCTORS FOR LIGHTING AND POWER.

      4) CUTTING, CHANNELING, AND CHASING REQUIRED TO ACCOMMODATE THE ELECTRICAL INSTALLATION AND ROUGH PATCHING.

      5) ADDITIONS AND MODIFICATIONS TO EXISTING POWER DISTRIBUTION EQUIPMENT AND RELATED FEEDERS.

      6) PROVIDING OF HVAC POWER AND WIRING AND FINAL CONNECTIONS TO HVAC EQUIPMENT.

      7) PROVIDING OF ELECTRICAL CONDUIT, JUNCTION BOXES, PULL BOXES, ETC., REQUIRED FOR ALL ELECTRICAL AND MECHANICAL EQUIPMENT.

      8) GROUNDING OF ALL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE (NEC) AND AS SHOWN ON THE DRAWINGS.

      9) MAINTAIN CONTINUITY OF EXISTING CIRCUITING TO ADJACENT AREAS NOT AFFECTED BY THE NEW WORK.

      10) PROVIDING TELEPHONE/DATA AND SIGNAL EMPTY CONDUIT, JUNCTION BOXES, PULLBOXES, SLEEVES, AND FISHWIRES.

      11) PROVIDING RECEPTACLES, LIGHT SWITCHES, DISCONNECT SWITCHES, FUSES, DIMMERS, OUTLET BOXES, CONTACTORS AND OTHER WIRING DEVICES INCLUDING RELATED BRANCH CIRCUIT WIRING.

      12) PROVIDING TEMPORARY LIGHT AND POWER DURING CONSTRUCTION.

   C. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.

   D. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.

   E. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH ALL DEPARTMENTS HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.

3. SHOP DRAWINGS:

   A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.

   B. INDICATE ON EACH SHOP DRAWINGS SUBMITTED:

      1) PROJECT NAME AND LOCATION
      2) NAME OF ARCHITECT AND ENGINEER
      3) ITEM IDENTIFICATION
      4) APPROVAL STAMP OF PRIME CONTRACTOR

   C. SUBMISSIONS:

      1) SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES. OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.

      2) SUBMISSIONS LARGER THAN 11 IN. X 17 IN.: SUBMIT TWO PRINTS TO THE ARCHITECT. THE ARCHITECT WILL FORWARD ONE PRINT TO THE ENGINEER.

      3) SUBMISSIONS MAY BE SUBMITTED ELECTRONICALLY IN PDF FORMAT.

   D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING ITEMS AND ASSOCIATED COMPONENTS:

      1) PANELBOARDS (INCLUDING DIMENSIONS, SCHEDULES, AND CATALOG CUTS).
      2) CIRCUIT BREAKERS
      3) LIGHTING FIXTURES AND LAMPS
      4) DISCONNECT SWITCHES AND FUSES
      5) WALL SWITCHES
      6) WIRING DEVICES

5. AS–BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS:

   A. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.

   B. THESE INSTRUCTIONS SHALL BE TYPED ON 8–1/2 IN. X 11 IN. PAPER AND BOUND IN THREE RING BINDERS WITH CLEAR ACETATE COVERS. CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.

   C. THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PROJECT, ARCHITECT AND ENGINEER.

   D. REPRODUCIBLE "AS–BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. "AS–BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AND/OR THE CLIENT AFTER COMPLETION OF THE INSTALLATION.

6. GENERAL PROVISIONS FOR ELECTRICAL WORK:

   A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.

   B. DEFINITIONS:

      1) "ELECTRICAL CONTRACTOR", "THE CONTRACTOR": THE PARTY OR PARTIES THAT HAVE BEEN DULY AWARDED THE CONTRACT FOR AND ARE THEREBY MADE RESPONSIBLE FOR THE ELECTRICAL WORK AS DESCRIBED HEREIN.

      2) "ARCHITECT", "ENGINEER", "OWNERS REPRESENTATIVE": THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING, AND OTHERWISE RULING ON THE PERFORMANCE UNDER THIS CONTRACT.

      3) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.

      4) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

      5) "FURNISH" OR "SUPPLY: TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

      6) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

      7) "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS.

      8) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.

      9) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.

      10) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.

   C. TEMPORARY LIGHT AND POWER: PROVIDE TEMPORARY LIGHT AND POWER SYSTEMS AT EARLIEST POSSIBLE DATE WITHIN THE CONSTRUCTION AREAS FOR THE REQUIREMENTS OF ALL TRADES AS HEREIN DESCRIBED. EXTEND SYSTEMS TO NEW CONSTRUCTION AS SOON AS PHYSICALLY POSSIBLE. MAINTAIN SYSTEM DURING WORKING HOURS OF ALL TRADES. COST OF ENERGY WILL BE PAID FOR BY OWNER. PROVIDE ALL REQUIRED MAINTENANCE, INCLUDING LAMPS AND SOCKETS.

   D. QUALITY ASSURANCE:

      1) QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC., OR OTHER NATIONALLY APPROVED TESTING AGENCY AND BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.

      2) GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PART 1 PARAGRAPH 2.D.

PART 2– PRODUCTS/APPLICATION

1. LOW–VOLTAGE DISTRIBUTION EQUIPMENT:

   A. PROVIDE COMPLETE EQUIPMENT INCLUDING: SWITCHES, FUSES, CIRCUIT BREAKERS, PANELS AND TRANSFORMERS.

   B. ALL EQUIPMENT SHALL CONFORM TO NEMA, ANSI AND IEEE STANDARDS.

2. APPROVED MANUFACTURERS:

A.	DISCONNECT SWITCHES:	SQUARE D, GE, EATON
B.	PANELBOARDS:	SQUARE D, GE, EATON (MATCH BUILDING STANDARD)
C.	CIRCUIT BREAKERS:	SQUARE D, GE, EATON (MATCH BUILDING STANDARD)
D.	RACEWAYS:	NATIONAL WIRE PRODUCTS, TRIANGLE, REPUBLIC
E.	WIRE/CABLE:	ROME PHELPS DODGE, GENERAL CABLE, SIMPLEX, SOUTHWIRE
F.	RECEPTACLES:	HUBBELL, LEVITON
G.	LIGHT SWITCHES:	HUBBELL, LEVITON
H.	DIMMER SWITCHES:	LUTRON
I.	OCCUPANCY SENSORS:	HUBBELL, LUTRON
J.	EXIT SIGNS:	DUAL–LITE, ATLITE, LIGHT ALARM (MATCH BUILDING STANDARD)
K.	FLOOR BOXES:	HUBBELL, WIREMOLD
L.	TIME CLOCKS:	TORK

3. WIRING DEVICES:

   A. PROVIDE COMPLETE MATERIAL AND ACCESSORIES AS NOTED.

   B. LOCAL WALL SWITCHES SHALL BE SPECIFICATION GRADE, TOGGLE, QUIET TYPE, RATED 20 AMP, 120/277 VOLT, AC. SIMILAR TO HUBBELL NOS. 1221 (SINGLE POLE), 1222 (DOUBLE POLE), 1223 (3–WAY) AND 1224 (4–WAY).

   C. DIMMERS SHALL BE RATED AT VOLTAGE COMPATIBLE WITH FIXTURE, WATTAGE SIZE AS REQUIRED. WHERE DIMMER SWITCHES ARE LOCATED NEXT TO SINGLE POLE OR VARIABLE SPEED TYPE SWITCHES, THE SINGLE POLE/VARIABLE SPEED SWITCHES SHALL MATCH THE DIMMING SWITCH STYLE. DIMMERS, WHERE GANGED TOGETHER, SHALL BE PROPERLY DERATED BASED ON MANUFACTURERS RECOMMENDATIONS. FINS OF DIMMERS SHALL NOT BE REMOVED IN MULTIGANG INSTALLATIONS. PROVIDE OVER–SIZED JUNCTION BOX FOR MOUNTING OF WALL DIMMERS.

   D. INSERTION RECEPTACLES SHALL BE SPECIFICATION GRADE DUPLEX CONVENIENCE 125 VOLTS, 2 POLE, 3 WIRE, U GROUND SLOT. GROUNDED, EXCEPT AS NOTED. MEETING NEMA STANDARDS, PUBLICATION WD–1–1971. SIMILAR TO HUBBELL NOS. 5362 (20 AMP) AND 5262 (15 AMP).

      1) SINGLE, EXCEPT AS NOTED: 20 AMP STRAIGHT BLADE, SIMILAR TO HUBBELL NO. 5361. 125 VOLT, 2 POLE, 3 WIRE, GROUNDED.

      2) SPECIAL USE: NONINTERCHANGEABLE TYPES AND RATINGS.

      3) GROUND FAULT INTERRUPTER RECEPTACLES: FEED–THRU TYPE. SIMILAR TO HUBBELL NOS. GF5362 (20 AMP) AND GF5262 (15 AMP).

      4) CLOCKS: SINGLE REGRESSED RECEPTACLE, 5 WIRE, SIMILAR TO HUBBELL NO. 5708.

   E. DEVICE PLATES: SEE ARCHITECT FOR TYPE. FOR RECEPTACLES WITH OTHER THAN 120 VOLT, INSCRIBE VOLTAGE AVAILABLE.

   F. ALL SWITCHES AND RECEPTACLES TO BE WHITE UNLESS OTHERWISE SPECIFIED BY ARCHITECT.

   G. MOUNTING ORIENTATION OF DEVICES (HORIZONTAL OR VERTICAL) TO BE COORDINATED WITH ARCHITECT.

   H. MULTIPLE DEVICES AT A COMMON LOCATION SHALL BE INSTALLED IN A COMMON MULTI–GANG BOX WITH A SINGLE COMMON FACEPLATE. DERATE DIMMER SWITCHES PER MANUFACTURER'S REQUIREMENTS WHEN GANGED.

4. RACEWAYS:

   A. PROVIDE RACEWAYS ONLY AS HERE–IN SPECIFIED, EXCEPT AS NOTED. RACEWAYS SHALL BE RUN CONCEALED, EXCEPT AS NOTED.

   B. PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPEZE, STRAP HANGERS, OR WALL BRACKETS. PROVIDE U–BOLTS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND CONNECTED TO ACCEPTABLE SUPPORTS. PROVIDE RISER CLAMPS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND RESTING ON SLAB. FOR THROUGH–THE–FLOOR SYSTEMS, UTILIZE AN ASSEMBLY SIMILAR TO HUBBELL FIRE RATED POKE–THROUGH FLOOR BOX SYSTEM. FOR ABOVE FLOOR FITTINGS TELEPHONE SHALL BE BUSHED HOLE AND POWER SHALL BE DUPLEX RECEPTACLE OR OTHER AS NOTED. PROVIDE SEPARATION BARRIER BETWEEN POWER AND TELEPHONE COMPARTMENTS. PROVIDE JUNCTION BOX ON UNDERSIDE OF FLOOR. PACK FITTING TO RESTORE FIRE RATING OF FLOOR.

   C. SECURE ALL RACEWAYS TO SUPPORTS WITH PIPE STRAPS OR U–BOLTS. SPACING OF SUPPORTS SHALL BE A MINIMUM OF 10 FT ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NONMETALLIC RACEWAY. SPACING SHALL BE 5 FT ON CENTER FOR WIREWAYS AND PER CODE AND AS NOTED FOR OTHERS. MOUNT SUPPORTS TO STRUCTURE MASONRY WITH TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION SHIELDS OR INSERTS IN CONCRETE AND BRICK, MACHINE SCREWS ON METAL, BEAM CLAMPS ON FRAMEWORK, WOOD SCREWS ON WOOD, AND PAN THROUGH STRAPS IN METAL DECK. NAILS, RAWL PLUGS OR WOOD PLUGS SHALL NOT BE PERMITTED. WHERE REQUIRED BY STRUCTURE, FURNISH THROUGH BOLTS AND FISHPLATES.

   D. EXPOSED RACEWAYS SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS. PROVIDE CLEARANCE WITH WATER, STEAM OR OTHER PIPING (MINIMUM 3 IN. SEPARATION FROM STEAM AND HOT WATER PIPES, EXCEPT 1 IN. FROM PIPE COVER AT CROSSINGS AND 18 IN. FOR PARALLEL RUNS). FOR HUNG CEILING OUTLETS, RUN IN HUNG CEILING AND CONNECT TO CEILING SUPPORT CHANNELS. IN MASONRY AND POURED CONCRETE, RUN VERTICALLY ONLY.

   E. MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINALCONNECTIONS.

   F. EMPTY RACEWAYS OVER 10 FT LONG: PROVIDE FISH OR PULL WIRE, GALVANIZED OR NYLON ROPE.

   G. PROVIDE RACEWAYS COMPLETE WITH BOXES, FITTINGS, AND ACCESSORIES.CONDUIT OR TUBING SIZES REFERRED TO IN SPECIFICATIONS AND ON DRAWINGS ARE NOMINAL DIAMETERS. MINIMUM DIAMETER SHALL BE 3/4 IN.

   H. ALL WIRES TO BE RUN IN CONDUIT. METAL CLAD (TYPE MC) MAY BE USED FOR CONCEALED BRANCH CIRCUITRY IN TENANTS SPACE ONLY WHEN APPROVED BY BUILDING MANAGEMENT AND WHERE PERMITTED BY CODE. EMT SHALL BE USED OUTSIDE TENANT SPACE AND IN BUILDING CLOSETS.

   I. RIGID STEEL CONDUIT SHALL BE PERMITTED FOR FEEDERS AND BRANCH CIRCUITS. PAINT MALE THREADS OF FIELD–THREADED CONDUIT WITH GRAPHITE–BASE PIPE COMPOUND AND BUTT CONDUIT ENDS. TOUCH UP MARRED SURFACES AND FIELD–CUT THREADS, CRCCOLD GALVANIZED.

   J. ELECTROMETALLIC TUBING (EMT) SHALL BE PERMITTED FOR BRANCH CIRCUITS ONLY IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES. EMT SHALL NOT BE PERMITTED IN RAISED FLOORS.

   K. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.

   L. CONDUIT FOR INTERIOR BRANCH CIRCUITS SHALL BE THIN WALL TUBING (EMT), WITH COMPRESSION FITTINGS SIZED PER DRAWING, 3/4" MINIMUM.

   M. ELECTROMETALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED, COMPRESSION TYPE, THREADLESS. GALVANIZED RIGID STEEL ELBOWS, 2 IN. OR LARGER.

   N. RIGID METAL CONDUIT: INDUSTRY STANDARD STEEL CONDUIT (3/4" MIN., 4" MAX.)

   O. THREADED FITTINGS SHALL BE USED WITH RIGID CONDUIT. DOUBLE SET SCREW FITTINGS SHALL BE USED WITH EMT.

   P. FLEXIBLE STEEL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED, GROUNDING TYPE.

   Q. FLEXIBLE STEEL CONDUIT MAY BE USED ONLY FOR:

      1) SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICABLE.

      2) FROM OUTLET BOX TO RECESSED LIGHTING FIXTURE: MINIMUM 4 FT LENGTHS, MAXIMUM 6 FT. LENGTHS.

      3) FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT: WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. MINIMUM LENGTH 18 IN. WITH SLACK. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END.

      4) FOR EXPANSION JOINT CROSSINGS. CROSS AT RIGHT ANGLES AND ANCHOR ENDS. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END.

   R. EXPANSION FITTINGS: INSTALL AT RIGHT ANGLES WITH CLIP CENTERED IN EXPANSION JOINT. PROVIDE LENGTH OF RUNS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PRESET FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATION.

   S. FLEXIBLE METALLIC CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT.

   T. BUSHINGS: METALLIC INSULATED TYPE.

   U. WIREWAYS: WIRE SHALL BE AS NOTED, MINIMUM NO. 16 GAUGE STEEL WITH GROUND CONTINUITY. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW–ON.

   V. SURFACE METAL RACEWAY: SIZE AS NOTED. BASE 0.04 IN., COVER 0.25 IN. MATERIAL SHALL BE STEEL. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW–ON.

   W. RACEWAYS PASSING THROUGH FIRE–RATED CONSTRUCTION, ALL OPENINGS TO BE SEALED WITH FIRE SEALANT AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING.

   X. INSTALL ACCESSIBLE JUNCTION AND PULLBOXES CLEAR OF OTHER TRADES AND SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF CONDUIT.

   Y. PERFORM CONTINUITY TESTS OF RESISTANCE OF FEEDER CONDUITS FROM SERVICE TO POINT OF FINAL DISTRIBUTION USING ONE CONDUCTOR RETURN. MAXIMUM RESISTANCE SHALL BE 25 OHMS.

5. PULL BOXES, PANEL BOXES, AND OUTLET BOXES:

   A. OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, BOXES SHALL BE STAMPED STEEL, 4 IN. SQUARE OR OCTAGON FOR FIXTURES. BOXES ABOVE CEILING SHALL BE 1–1/2 IN. DEEP. BOXES IN CEILING OR SLAB SHALL BE 3 IN. DEEP. BOXES IN WALL FOR FIXTURES SHALL BE 2–3/4 IN. DEEP. BOXES IN WALL FOR RECEPTACLES AND SWITCHES SHALL BE 1–1/2 IN. DEEP. FURNISH WITH RAISED COVERS AND FIXTURE STUDS WHERE REQUIRED. WITHOUT FIXTURE OR DEVICE: FURNISH BLANK COVER. OFFSET BACK–TO–BACK OUTLETS WITH MINIMUM 6 IN. SEPARATION.

   B. JUNCTION AND PULL BOXES: GALVANIZED SHEET STEEL WITH SCREW–ON COVERS, EXCEPT AS NOTED. FURNISH WITH INSULATED SUPPORTS FOR CABLES. LOCATIONS SHALL BE AS NOTED OR REQUIRED AND ACCESSIBLE. PROVIDE BARRIERS IN NEW AND RENOVATED BOXES BETWEEN EMERGENCY AND NORMAL WIRING. FLOOR BOXES SHALL BE SUITABLE FOR CONDUIT AND DEVICES NOTED. RAISED OUTLETS SHALL BE HUBBELL #B2414 SERIES WITH ABOVE FLOOR FITTING. TELEPHONE: BUSHED HOLE. POWER: DUPLEX RECEPTACLE OR OTHER AS NOTED. INCREASE SIZE TO SUIT AS NECESSARY. FLUSH OUTLETS SHALL BE HUBBELL #B2414 SERIES WITH FLUSH FLOOR FITTING FOR TELEPHONE AND FLUSH DUAL FLAP COVER WITH DUPLEX RECEPTACLE FOR POWER AS NOTED. INCREASE SIZE TO SUIT AS NECESSARY.

   C. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRON OR GROUT IN WITH MASONRY. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT PHASES FOR VOLTAGES EXCEEDING 150 VOLTS TO GROUND.

   D. PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. CONCEAL JUNCTION AND PULL BOXES IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR–TO–CEILING CHANNELS FOR MOUNTING ON DRYWALL AND LIGHTWEIGHT CONSTRUCTION. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON SUPPORT. MOTOR TERMINAL BOXES: COORDINATE WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING; ADD BOX VOLUME WHERE REQUIRED.

   E. PROVIDE PULL BOXES AND JUNCTION BOXES IN LONG STRAIGHT RUNS OF RACEWAY TO ASSURE THAT CABLES ARE NOT DAMAGED WHEN THEY ARE PULLED, TO FULFILL REQUIREMENTS AS TO THE NUMBER OF BENDS PERMITTED IN RACEWAY BETWEEN CABLE ACCESS POINTS, THE ACCESSIBILITY OF CABLE JOINTS AND SPLICES, AND THE APPLICATION OF CABLE SUPPORTS.

   F. PULLBOXES AND JUNCTION BOXES SHALL BE SIZED SO THAT THE MINIMUM BENDING RADIUS CRITERIA SPECIFIED FOR THE WIRES AND CABLE ARE MAINTAINED.

   G. USE WEATHERPROOF BOXES, JUNCTION BOXES AND DEVICES FOR ALL REQUIRED WEATHERPROOF INSTALLATION.

   H. OUTLET BOXES SHALL BE PROVIDED FOR ALL LOW VOLTAGE DEVICES (I.E. TELEPHONE/DATA, SECURITY, FIRE ALARM, ETC.) COORDINATE BOX SIZE AND DEPTH WITH RESPECTIVE VENDOR.

6. WIRES AND CABLES:

   A. PROVIDE WIRE AND CABLE COMPLETE WITH ACCESSORIES. SIZE REFERENCE SHALL BE AWG EXCEPT AS NOTED.

   B. CONDUCTORS SHALL BE COPPER, ASTM STANDARD SOLID (NO. 10 AND SMALLER) OR STRANDED (NO. 8 AND LARGER). GENERAL USE CABLING SHALL BE NO. 12 MINIMUM. AT 120 VOLTS AND OVER 100 FT CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM. AT 265 VOLTS AND OVER 200 FT CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM.

   C. CONTROL AND ALARM CABLING, EXCEPT AS NOTED, SHALL BE NO. 14 MINIMUM. AT 120 VOLTS AND OVER 200 FT CIRCUIT LENGTH PROVIDE NO. 12 MINIMUM.

   D. OTHER VOLTAGES AND PHASES: ADJUST CABLE SIZING AS REQUIRED TO MAINTAIN VOLTAGE DROP. INCREASE RACEWAY SIZES FOR LARGER WIRE AS REQUIRED.

   E. INSULATION SHALL BE RUBBER AND THERMOPLASTIC MEETING ASTM AND IPCEA STANDARDS. TYPE THHN OR THWN SHALL BE UTILIZED FOR FEEDERS AND BRANCH CIRCUITS EXCEPT AS NOTED. TYPE SFF–2 SHALL BE UTILIZED FOR BRANCH CIRCUITS LOCATED IN WIRING CHANNELS OF CONTINUOUS FLUORESCENT FIXTURES AND IN AMBIENT TEMPERATURES OVER 90 DEG C. FOR UNGROUNDED ISOLATED BRANCH CIRCUITS PROVIDE CROSS–LINKED POLYETHYLENE INSULATION (TYPE XHHW).

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

Scale: AS NOTED

Project No. 2K20.015

Drawn by: VH

E3.01

ELECTRICAL SPECIFICATIONS (1 OF 2)

ELECTRICAL SPECIFICATIONS (CONT'D)

F. METAL CLAD (TYPE MC) MAY BE USED FOR CONCEALED BRANCH CIRCUITRY IN TENANTS SPACE ONLY WHEN APPROVED BY BUILDING MANAGEMENT AND WHERE PERMITTED BY CODE. EMT SHALL BE USED OUTSIDE TENANT SPACE AND IN BUILDING CLOSETS. STATE IN PROPOSAL THAT PRICE IS BASED UPON THE USE OF MC.

G. COLOR CODING SHALL BE AS FOLLOWS:

1) 120/208 VOLT SYSTEM: BLACK FOR A PHASE, RED FOR B PHASE, BLUE FOR C PHASE.

2) 277/480 VOLT SYSTEM: BROWN FOR A PHASE, ORANGE FOR B PHASE, YELLOW FOR C PHASE.

3) NEUTRAL WIRE SHALL UTILIZE WHITE OUTER COVERING THROUGHOUT.

4) EQUIPMENT GROUND WIRE SHALL UTILIZE GREEN OUTER COVERING THROUGHOUT.

5) WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION TO OVERLAP CONDUCTORS WITH 6 IN. COLOR TAPING IN ACCESSIBLE LOCATIONS.

H. PROVIDE FLAMEPROOF LINEN OR FIBER TAGS IN ACCESSIBLE LOCATIONS FOR FEEDERS INDICATE FEEDER NUMBER, SIZE, PHASE AND POINTS OF ORIGIN AND TERMINATIONS. FOR CONTROL AND ALARM WIRING INDICATE TYPE (CONTROL OR ALARM), SIZE OF WIRE, AND POINTS OF ORIGIN AND TERMINATIONS.

I. TERMINATIONS, SPLICES AND TAPS UNDER 600 VOLTS: COPPER CONDUCTORS NO. 10 AND SMALLER SHALL UTILIZE COMPRESSION-TYPE OF TWIST-ON SPRING-LOADED CONNECTORS AND CLEAR NYLON-INSULATED COVERING. COPPER CONDUCTORS NO. 8 AND LARGER SHALL UTILIZE MECHANICAL BOLTED PRESSURE OR HYDRAULIC COMPRESSION TYPE USING MANUFACTURER'S RECOMMENDED TOOLING. CABLE LUGS AND CONNECTORS SHALL UTILIZE COMPRESSION TYPE OF SAME METAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE. COPPER LUG CONNECTIONS TO BUS BARS: USE ANTISEIZE COMPOUND ON TANG.

J. NOT MORE THAN 3 LIGHTING OR CONVENIENCE OUTLET CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT UNLESS OTHERWISE INDICATED. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 DEG F. PROVIDE THERMOPLASTIC WIRES SHALL NOT BE INSTALLED IN COMPUTER AREA RAISED FLOORS.

K. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS.

L. PERFORM CONTINUITY AND INSULATION TESTS. MEGGER TEST 100 PERCENT OF FEEDERS, 10 PERCENT OF BRANCH CIRCUITS AND ALL MOTOR BRANCH CIRCUITS OVER 25 HP. PERFORM TESTS PRIOR TO CONNECTING EQUIPMENT AND IN PRESENCE OF AUTHORIZED REPRESENTATIVES. SUBMIT WRITTEN REPORT OF RESULTS. CORRECT OR REPLACE CABLE TESTING BELOW MANUFACTURER'S STANDARDS.

M. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.

7. GROUNDING:

A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED TO PROVIDE AN ELECTRICALLY GROUNDING PATH TO THE GROUNDING ELECTRODE IN A CODE APPROVED MANNER.

B. METAL RACEWAYS, METAL ENCLOSURES OF ELECTICAL DEVICES AND EQUIPMENT, LIGHTING FIXTURES AND OTHER EQUIPMENT SHALL BE COMPLETELY GROUNDED.

C. PROPER HARDWARE REQUIRED FOR COMPLETE GROUNDING SYSTEM SHALL BE INSTALLED BY THE CONTRACTOR. USE EXOTHERMIC WELDING PROCESS FOR INACCESSABLE CONNECTIONS.

D. USE AN INTERNAL BONDING CONDUCTOR WHERE FLEXIBLE METALLIC CONDUITS ARE INSTALLED.

E. GROUND MOTORS FROM GROUNDING BUSHING IN THE STARTER TO THE MOTOR FRAME.

F. GROUNDING CONDUCTOR SHALL BE RUN WITH THE CIRCUIT CONDUCTORS AND TERMINATED TO AN APPROVED GROUNDING TERMINAL.

G. PROVIDE SUPPLEMENTARY GROUND BONDING WHERE METALLIC CONDUITS TERMINATE AT METAL CLAD EQUIPMENT (OR AT THE METAL PULL BOX OF EQUIPMENT) FOR WHICH A GROUND BUS IS SPECIFIED WITH A BUSHING OF THE GROUNDING TYPE CONNECTED INDIVIDUALLY TO GROUND BUS.

H. ALL GROUND WIRES SHALL BE SUITABLY PROTECTED FROM MECHANICAL INJURY.

8. LIGHTING FIXTURES:

A. REFER TO ARCHITECTURAL DRAWINGS FOR ALL LIGHTING FIXTURE SPECIFICATIONS.

B. PROVIDE FIXTURES ("LUMINARIES"), COMPONENTS AND LAMPS. FIXTURES SHALL BE COMPLETELY FACTORY ASSEMBLED, WIRED AND EQUIPPED WITH ALL NECESSARY SOCKETS, BALLASTS, SUPPORTING HARDWARE, AND ACCESSORIES.

C. ALL LIGHTING FIXTURE MOUNTING HARDWARE SHALL MATCH AND BE COORDINATED WITH THE NEW CEILING SYSTEM TYPE. ALL FIXTURES SHALL BE EQUIPPED WITH "EARTHQUAKE" CLIPS. ALL LIGHTING FIXTURES SHALL BE INSTALLED WITH SEISMIC BRACING AS INDICATED ON ARCHITECTURAL CEILING DETAILS.

D. ALL FIXTURES SHALL BE FREE OF LIGHTING LEAKS BELOW CEILING.

E. FLUORESCENT BALLAST SHALL BE UL'S CLASS "P" AND SHALL CONFORM TO ANSI AND UL SPECIFICATIONS WITH LABELS OF APPROVAL BY UL AND CERTIFICATION BY C.B.M. BALLASTS SHALL COMPLY WITH THE STATE ENERGY CODE. BALLASTS FOR FLUORESCENT LAMPS SHALL BE OF THE ENERGY SAVING SUPER LOW HEAT DESIGN WITH HIGH POWER FACTOR (0.9 MINIMUM) AND A HIGH BALLAST FACTOR (0.95 MINIMUM). ALL BALLASTS SHALL BE SUPPLIED AS UNIVERSAL VOLTAGE, SUITABLE TO BE CONNECTED TO 120V OR 277V LIGHTING.

F. WHERE DIMMING OF FLUORESCENT FIXTURES IS REQUIRED, THE ELECTRONIC BALLAST INSTALLED MUST BE COMPATIBLE WITH THE DIMMING SPECIFIED.

G. WHERE DIMMING OF LOW VOLTAGE FIXTURES IS REQUIRED, THE STEP DOWN VOLTAGE TRANSFORMER SHALL BE ELECTRONIC (OR MAGNETIC) AS NOTED BY THE LIGHTING DESIGNER/ARCHITECT SCHEDULE. CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING FIXTURE SPECIFICATION AND ENSURING DIMMER SWITCH INSTALLED IS COORDINATED WITH FIXTURE TYPE.

H. ALL RECESSED FIXTURES SHALL BE SET FLUSH INTO ACOUSTIC TILE CEILINGS.

9. OCCUPANCY SENSORS:

A. CONTRACTOR'S WORK SHALL INCLUDE ALL LABOR, MATERIALS, TOOLS, APPLIANCES, CONTROL HARDWARE, SENSORS, WIRE, JUNCTION BOXES, AND EQUIPMENT NECESSARY FOR A COMPLETELY OPERATIONAL SENSOR CONTROL SYSTEM, AS DESCRIBED HEREIN.

B. ALL SENSORS SHALL BE EITHER SELF-CONTAINED OR INSTALLED AS OF OTHER SPECIFIED SYSTEMS OF THE DUAL TECHNOLOGY TYPE PROVIDING VOLUMETRIC COVERAGE WITH THE DETECTION AREA. SENSORS SHALL BE SOLID-STATE DESIGN AND BE DESIGNED FOR ENERGY CONSERVATION.

C. SENSORS LOCATED IN ADJACENT ROOMS OR SPACES, OR SENSORS CONTROLLING DIFFERENT LIGHTING FIXTURES OR ZONES WITHIN THE SAME ROOM, SHALL OPERATE AT DIFFERENT FREQUENCIES IN ORDER TO PREVENT INTERFERENCE (CROSS TALK) BETWEEN SENSORS.

D. SENSORS SHALL HAVE THE FOLLOWING FUNCTIONS:

1) TIMED DELAY FOR TURNING LIGHTS OFF: ADJUSTABLE OVER A RANGE OF 1 TO 30 MINUTES.

2) MANUAL OVERRIDE SWITCH: TURNS LIGHTS OFF MANUALLY REGARDLESS OF TIMED DELAY.

3) ISOLATED RELAY CONTACT: OPERATES ON DETECTION OF OCCUPANCY OR VACANCY, AS INDICATED, TO ACTIVATE AN INDEPENDENT FUNCTION.

4) AMBIENT LIGHT LEVEL SENSOR: ADJUSTABLE FOR SETTING A LEVEL OF AMBIENT ILLUMINATION ABOVE WHICH THE SENSOR WILL NOT TURN THE LIGHTS ON.

E. INFRARED SENSORS: DETECTS OCCUPANCY BY A COMBINATION OF HEAT AND MOVEMENT IN ZONE COVERAGE.

F. ULTRASONIC SENSORS: EMITS A BEAM OF ULTRASONIC ENERGY AND DETECTS OCCUPANCY BY A SENSING A CHANGE IN PATTERN OF REFLECTED ULTRASONIC ENERGY.

G. DUAL TECHNOLOGY SENSORS: USES A COMBINATION OF INFRARED AND ULTRASONIC DETECTION METHODS TO DISTINGUISH BETWEEN OCCUPIED AND UNOCCUPIED CONDITIONS FOR THE AREA COVERED.

H. ALL OCCUPANCY SENSORS SHALL BE SET AT FULL SENSITIVITY AND MAXIMUM FOOT CANDLES. COVERAGE SHALL REMAIN CONSTANT AFTER SENSITIVITY CONTROL HAS BEEN SET. SENSOR TIME DELAY SHALL BE SET.

I. FOR ADDITIONAL INFORMATION, INCLUDING MOUNTING REQUIREMENTS AND WIRING DIAGRAMS, REFER TO MANUFACTURER'S TECHNICAL LITERATURE AND DETAILS ON DRAWINGS.

J. SENSORS TO BE PROVIDED WITH MASKING TAPE FOR INFRARED COMPONENTS TO PREVENT FALSE TRIPPING OUTSIDE THE COVERAGE AREA.

K. BEFORE TENANT MOVE-IN DATE AND TURN OVER OF THE PROJECT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SENSOR TECHNICAL REPRESENTATIVE TO FIELD ADJUST SENSOR SENSITIVITY AND LOCATION TO ENCOMPASS ENTIRE ROOM OR AREA WITHOUT NUISANCE TRIPPING FROM ADJACENT AREAS.

L. OCCUPANCY SENSORS SHALL DERIVE POWER FROM LIGHTING CIRCUIT SERVING LIGHT FIXTURES IT CONTROLS.

10. SELF-POWERED EXIT SIGNS:

A. FURNISH AND INSTALL SELF-POWERED EXIT SIGNS COMPLETE WITH INTEGRAL BATTERY/CHARGER CAPABLE OF OPERATING THE SIGN FOR 90 MINUTES IN THE EVENT OF A POWER FAILURE.

B. UNIT TO HAVE SEALED NICKEL CADMIUM BATTERY, LED ILLUMINATORS, TEST BUTTON, AND INDICATING LIGHT.

C. BATTERY/CHARGER PACK SHALL BE MOUNTED ABOVE THE SIGN. CEILING MOUNTED SIGNS SHALL BE ARRANGED SO THAT THE PACK IS RECESSED ABOVE THE CEILING. WALL MOUNTED SIGNS SHALL HAVE CONCEALED BATTERY PACKS.

D. EXIT SIGNS SHALL MATCH BUILDING STANDARD OR BE MANUFACTURED BY DUAL-LITE, ATLITE, LIGHT ALARMS, OR APPROVED EQUAL.

11. PANELBOARDS:

A. DISTRIBUTION PANELS: SWITCHING UNITS SHALL BE 3 PHASE, 4 WIRE CIRCUIT-BREAKER TYPE UNLESS OTHERWISE NOTED ON PANEL SCHEDULES. BUS BARS SHALL BE HARD DRAWN COPPER, MINIMUM 98% CONDUCTIVITY, SILVER OR TIN-PLATED JOINTS. CABINETS SHALL BE GALVANIZED SHEET STEEL BACK BOX, WITH DOOR AND TRIM AND LAPPED AND WELDED CORNERS. HARDWARE SHALL BE CHROME-PLATED WITH FLUSH LOCK/LATCH HANDLE ASSEMBLY (UP TO 48 IN. HIGH DOORS) OR VAULT HANDLE, LOCK AND 3-POINT CATCH (LARGER THAN 48 IN. HIGH DOORS). HINGES SHALL BE SEMI-CONCEALED, 5-KNUCKLE STEEL WITH NONFERROUS PINS, 180-DEG OPENING, LOCATED A MAXIMUM 26 IN. ON CENTERS. MINIMUM GUTTER SPACES FOR LIGHTING PANELS SHALL BE 5-3/4 IN. SIDES, TOP AND BOTTOM. DIRECTORY HOLDER SHALL BE METAL FRAME WITH CLEAR PLASTIC, TRANSPARENT COVER. A TYPEWRITTEN LIST INDICATING FEEDER CABLE AND CONDUIT SIZE, CIRCUIT NUMBERS, OUTLETS SUPPLIED AND THEIR LOCATIONS SHALL BE PROVIDED.

B. PROVIDE CODE GAUGE STEEL DOORS FOR ALL PANELBOARD BOXES. FRONT COVER SHALL BE A "DOOR WITHIN A DOOR" TYPE. THE OUTER DOOR (TRIM) SHALL ALLOW ACCESS TO ENTIRE PANELBOARD BOX INCLUDING GUTTER SPACES. OUTER DOOR (TRIM) SHALL BE ATTACHED DIRECTLY TO BOX BY A FULL LENGTH PIANO HINGE. THE INNER DOOR SHALL ALLOW ACCESS TO CIRCUIT BREAKERS ONLY. PROVIDE LOCK AND SET OF KEYS FOR INNER DOOR PER PANELBOARD.

C. PROVIDE A COPPER EQUIPMENT GROUND BAR IN EACH PANEL, AND A COPPER ISOLATED GROUND BAR IN NOTED PANELS.

D. PANELS SHALL BE PROVIDED WITH NEUTRAL BARS SIZED AT 200% OF THE PHASE BUS BARS.

E. PHASE LEGS OF ALL PANELS SHALL BE BALANCED AT SUPPLY POINT TO WITHIN 10% AFTER ALL CIRCUITS ARE WIRED AND LOADS CONNECTED. ANY PANEL FOUND WITH UNBALANCED LOADS SHALL HAVE ITS CIRCUITS REARRANGED AS REQUIRED TO BALANCE PHASE LEGS.

F. PROVIDE MULTI-CABLE LUGS WHERE REQUIRED. DOUBLE LUGGING SHALL NOT BE PERMITTED.

G. MOUNTING HEIGHT SHALL BE A MAXIMUM OF 6 FT.-6 IN. FROM FLOOR TO TOP OF SWITCH UNIT.

H. UPDATE DIRECTORIES ON EXISTING PANELBOARDS WHERE CIRCUITING HAS CHANGED.

I. PANELS SHALL HAVE ENGRAVED WHITE CORE, BLACK LAMICOID NAMEPLATE AFFIXED WITH EPOXY CEMENT.

12. CIRCUIT BREAKERS:

A. CIRCUIT BREAKERS: MOLDED CASE BREAKERS SHALL BE THERMAL-MAGNETIC, QUICK-MAKE, QUICK-BREAK, BOLT-ON TYPE, MANUALLY OPERATED WITH INSULATED TRIP-FREE HANDLE. MULTI-POLE TYPE BREAKERS SHALL CONTAIN INTERNAL TRIP BAR. TERMINALS SHALL BE SUITABLE FOR COPPER OR ALUMINUM CABLE. FURNISH AUXILIARY DEVICES WHERE REQUIRED FOR SHUNT-TRIPPING, OPEN AND CLOSE MOTOR OPERATOR AND ALARM INDICATION. ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED. FRAMES, IC AND INTERCHANGEABLE TRIPS SHALL BE AS FOLLOWS:

1) MINIMUM SHORT CIRCUIT RATING OF 10,000 AMPERES SYMMETRICAL FOR 120/208V PANELS OR HIGHER WHERE NOTED.

2) MINIMUM SHORT CIRCUIT RATING OF 14,000 AMPERES SYMMETRICAL FOR 277/480V PANELS OR HIGHER WHERE NOTED.

B. FOR PANELBOARD APPLICATIONS, CIRCUIT BREAKERS SHALL BE BOLTED TO THE PANELBOARD BUS BARS. WHERE CIRCUIT BREAKERS ARE INSTALLED IN EXISTING PANELBOARDS, BREAKERS SHALL BE OF THE SAME MANUFACTURER AND INTERRUPTING RATING. BREAKERS SHALL BE COMPATIBLE WITH EXISTING PANELBOARD.

C. MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO MORE THAN ONE DEVICE OR EQUIPMENT SHALL BE PROVIDED WITH A MEANS TO DISCONNECT SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION THE MEANS REQUIRED TO MEET NEC SECTION 210.4(B).

D. TESTS: OPEN AND CLOSE LOAD BREAK SWITCHING DEVICES UNDER LOAD.

13. DISCONNECT SWITCHES:

A. DISCONNECT SWITCHES SHALL BE FUSED OR NONFUSED AS NOTED. VOLTAGE SHALL BE AS REQUIRED. SWITCHES SHALL BE HEAVY DUTY, EXCEPT AS NOTED, AND HORSEPOWER RATED FOR MOTOR LOADS. TOGGLE TYPE SWITCHES SHALL BE NONFUSED, LOAD BREAK, HAVING MAXIMUM RATINGS OF 20 AMP AT 600 VOLTS AND 30 AMP AT 240 VOLTS. KNIFE-BLADE TYPE SWITCHES SHALL BE LOAD BREAK, QUICK-MAKE QUICK-BREAK, UL CLASS R UP TO 600 AMP. MAXIMUM RATING EXCEPT AS NOTED SHALL BE 800 AMP. ARC QUENCHERS SHALL BE PROVIDED. SWITCHES SHALL BE SIMILAR TO GENERAL ELECTRIC QMR. ALL SWITCH ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.

B. OUTDOOR DISCONNECT SWITCHES SHALL BE SIMILAR TO INDOOR, EXCEPT LISTED FOR OUTDOOR APPLICATIONS (NEMA 3R OR 4, AS REQUIRED).

14. MISCELLANEOUS INSTALLATION COMPONENTS:

A. TIME SWITCH: SHALL BE DIGITAL WITH PROGRAMMABLE CONTROLLER IN AM/PM FORMAT, IN ONE MINUTE RESOLUTION, CAPABLE OF 99 SET POINTS, SEPARATE SCHEDULING FOR EACH DAY OF WEEK, DAYLIGHT SAVING AND STANDARD TIME, AUTOMATIC LEAP YEAR CORRECTION, 30 DAY BACK-UP FOR REAL TIME USING, MANUAL OVERRIDE ON OR OFF TO THE NEXT SCHEDULED EVENT, LCD TYPE DISPLAY IN NEMA 3 ENCLOSURE. TIME SWITCHES CONTROLLING LIGHTING IN INTERIOR OFFICE AREAS TO BE PROVIDED WITH A MANUAL OVERRIDE FEATURE THAT ALLOWS OCCUPANT TO OVERRIDE TIMECLOCK IN LINE OF SIGHT OF LIGHTING FIXTURES BEING CONTROLLED.

15. TELEPHONE AND DATA EMPTY CONDUIT SYSTEM:

A. PROVIDE LABOR, MATERIALS, AND SERVICES FOR A COMPLETE AND SAFE INSTALLATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION FOR THE SYSTEM INCLUDING THE FOLLOWING: CONDUIT, PULL BOXES, OUTLET BOXES, AND SLEEVES.

B. PROVIDE MINIMUM 2" DEEP 2 GANGED OUTLET BOXES. DEVICES BY OTHERS.

C. CONDUIT SHALL BE 3/4" IN. MINIMUM. FURNISH EMPTY CONDUIT FROM OUTLET TO NEAREST ACCESSIBLE HUNG CEILING.

D. ALL RACEWAYS SHALL BE EMT WITH BUSHED TERMINATIONS AT HUNG CEILING WITH (NYLON CORD).

E. EQUIPMENT TO CONFORM TO THE REQUIREMENTS OF TELEPHONE COMPANY.

16. FIRE ALARM SYSTEM:

A. CONTRACTOR SHALL PROVIDE A COMPLETE OPERATIONAL FIRE ALARM SYSTEM FOR THE WORK AREA(S), INCLUDING INTERTIES TO THE EXISTING BUILDING FIRE ALARM SYSTEM, FOR ALL NEW FIRE ALARM WORK, INCLUDING:

1) FIRE ALARM SPEAKER/STROBE OR HORN/STROBE DEVICES
2) FIRE ALARM STROBE DEVICES
3) FIRE ALARM PULL STATIONS
4) SMOKE DETECTORS
5) HEAT DETECTORS

B. CONTRACTOR SHALL ALSO INCLUDE ALL COMPONENTS TO UPGRADE THE EXISTING BASE BUILDING SYSTEM EXPANSION INCLUDING, BUT NOT LIMITED TO, RELAY CARDS, STROBE CONTROL PANELS, AMPLIFIERS, ETC.

C. CONTRACTOR TO OBTAIN THE SERVICES OF THE BASE BUILDING FIRE ALARM VENDOR TO DEVELOP AND DESIGN A CODE COMPLIANT, FULLY FUNCTIONAL FIRE ALARM SYSTEM. ALL WORK TO BE DONE IN COORDINATION WITH BASE BUILDING FIRE ALARM VENDOR AND BUILDING MANAGEMENT.

D. ALL EQUIPMENT SHALL MEET REQUIREMENTS OF NFPA 72, ALL APPLICABLE CODES, AND LOCAL LAWS, AND BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. ALL FINAL CONNECTIONS TO BE MADE BY THIS CONTRACTOR WITH THE APPROVAL AND SUPERVISION OF THE BUILDING OWNER AND FIRE ALARM SYSTEM VENDOR.

E. ALL COST ASSOCIATED WITH CONNECTIONS AND REPROGRAMMING OF THE EXISTING FIRE ALARM SYSTEM TO BE PAID BY THIS CONTRACTOR.

F. BUILDING FIRE ALARM SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING, AND AFTER DEMOLITION AND/OR CONSTRUCTION. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN OPERATION OF ALL EXISTING FIRE ALARM DEVICES AT ALL TIMES.

G. ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL EXISTING WIRING ON TENANT FLOOR IS COMPLIANT WITH LATEST FIRE ALARM STANDARDS AND BUILDING REQUIREMENTS. IF WIRING DOES NOT MEET LATEST STANDARDS AND BUILDING REQUIREMENTS ALL WIRING SHALL BE REPLACED AS PART OF THIS PROJECT.

H. ALL FIRE ALARM DEVICES ARE TO BE FULLY COMPATIBLE WITH THE EXISTING BUILDING ADDRESSABLE FIRE ALARM SYSTEM.

I. INSTALLATION SHOULD BE THOROUGHLY TESTED WITH THE INSTALLER AND BUILDING PERSONNEL, BEFORE ANY FINAL INSPECTION IS SCHEDULED.

J. SUBMISSION OF BID ACKNOWLEDGES THAT CONTRACTOR HAS CONTACTED THE BASE BUILDING VENDOR AND HAS INCLUDED ALL COMPONENTS FOR A CODE COMPLIANT SYSTEM. ADDITIONAL CLAIMS FOR CHANGES IN VENDOR SCOPE OR ADDITIONAL DEVICES/COMPONENTS, UNLESS INITIATED BY TENANT, WILL NOT BE ACCEPTED.

K. ALL AUDIO VISUAL WALL MOUNTED FIRE ALARM DEVICES SHALL BE WHITE WITH WHITE FACE PLATE AND RED LETTERING UNLESS OTHERWISE DIRECTED BY ARCHITECT.

17. SECURITY SYSTEM:

A. CONTRACTOR SHALL FURNISH OUTLET BOXES AND EMPTY CONDUITS REQUIRED FOR INSTALLATION OF SECURITY SYSTEM HARDWARE AND CABLING.

B. CONTRACTOR SHALL REFER TO SECURITY DRAWINGS OR DETAILS ON THESE DRAWINGS FOR ALL REQUIREMENTS FOR SECURITY HARDWARE AND CABLING.

PART 3– EXECUTION

1. GENERAL:

A. PERFORM THE WORK AT SUCH TIME AND IN SUCH MANNER AS TO MINIMIZE INTERFERENCE WITH BUILDING'S NORMAL OPERATION. NOTIFY BUILDING MANAGEMENT REPRESENTATIVES IN ADVANCE EACH TIME A SERVICE OUTAGE OR INTERRUPTION WILL BE REQUIRED. SCHEDULE SUCH SERVICE OUTAGE OR INTERRUPTION ONLY AFTER HAVING RECEIVING APPROVAL OF DATE, HOUR, AND TIME INTERVAL REQUIRED THEREOF. SCHEDULE OF WORK AS DIRECTED SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.

B. COORDINATE WITH THE BUILDING OWNER FOR ANY SERVICE INTERRUPTION OF EXISTING SYSTEMS AND GIVE NOTICE AS REQUIRED BY BUILDING RULES AND REGULATIONS OR A MINIMUM OF FIVE (5) DAYS PRIOR TO ANY WORK, WHICHEVER IS MORE STRINGENT. CONTRACTOR IS TO PERFORM WORK ON PREMIUM TIME SO AS TO NOT DISTURB EXISTING TENANTS ON OTHER FLOORS.

C. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. SEALANT SHALL BE RATED FOR 3 HOURS. TELECOMMUNICATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING FIRE STOPPING IN 'IT' CONDUITS/SLEEVES/PENETRATIONS AFTER 'IT' WIRES ARE PULLED.

D. PROVIDE 277/480V DANGER LABELING AT ALL EQUIPMENT AND JUNCTION/PULL BOXES PER CODE.

E. MAINTAIN GROUND CONTINUITY THROUGHOUT ALL SYSTEMS.

F. MAINTAIN CONTINUITY AND PROTECT ALL EXISTING CIRCUITS TO REMAIN SERVING EQUIPMENT WITHIN THE BASE BUILDING CORE AREAS OR OTHER TENANT AREAS AFFECTED BY THE ALTERATION WORK. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE MODIFIED, REVISED, DISCONNECTED, OR REMOVED IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RECONNECTED AND SERVICE RE-ESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THE ALTERATION.

G. PRIOR TO ANY CHASING, CHOPPING, OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE WITH ALL APPROPRIATE TRADES TO ENSURE THAT WORK WILL BE IN HARMONY WITH OTHER WORK AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. X-RAY SLABS IF REQUIRED. THIS WORK MUST BE APPROVED BY BUILDING MANAGEMENT PRIOR TO PROCEEDING. ALL CORING/CHASING SHALL BE DONE ON OVERTIME.

H. FOR TEMPORARY POWER, FURNISH AND INSTALL WIRING FOR ADEQUATE LIGHT AND SMALL TOOLS POWER FOR THE PROJECT. THIS SHALL INCLUDE STRINGERS, LAMPS, OUTLETS, BREAKERS, AND FUSING, AS IT IS NECESSARY. ALL TEMPORARY WIRING SHALL BE REMOVED FROM SPACE AT COMPLETION OF PROJECT.

I. WHEN USING TEMPORARY LIGHTING, THE CONTRACTOR SHALL CLEARLY LABEL PANELS AND BREAKERS USED FOR LIGHTING. LOCATION OF PANELS TO BE SHOWN ON FLOOR PLAN POSTED AT ENTRANCE TO WORK AREA. PROPER TEMPORARY LIGHTING AND POWER MUST BE INSTALLED AND MAINTAINED IN ALL WORK AREAS. CONNECTIONS TO EXISTING STAIRWELL AND EXIT LIGHT SYSTEMS ARE NOT PERMITTED. TEMPORARY LIGHT STREAMERS, WHERE SPLICED, ARE TO HAVE COMPRESSION FITTINGS OR BE SOLDERED.

J. THE CONTRACTOR SHALL CUT BACK TO THE FLOOR, WALL OR CEILING, REMOVE WIRING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. EXPOSED CONDUITS, WIREWAYS, OUTLET BOXES, PULL BOXES, HANGERS, ETC. MADE OBSOLETE BY THE ALTERATION WORK SHALL BE REMOVED, UNLESS OTHERWISE NOTED.

K. IT IS POSSIBLE THAT THERE WILL BE CERTAIN REMOVALS AND RELOCATIONS OF THE EXISTING ELECTRICAL INSTALLATION NECESSARY FOR THE SATISFACTORY PERFORMANCE OF THE WORK. THESE CHANGES CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS, BUT MUST BE CONSIDERED BY THE CONTRACTOR WHILE REVIEWING THE EXISTING CONDITIONS AT THE SITE AND PREPARING THE PROPOSAL.

2. IDENTIFICATION AND LABELING:

A. ALL PANELBOARDS, CONTROL PANELS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, TRANSFORMERS, CABINETS, ATS'S, UPS'S, AND THE LIKE SPECIFIED HEREIN SHALL BE CLEARLY IDENTIFIED WITH THE EQUIPMENT DESIGNATION AND VOLTAGE RATING. IDENTIFICATION SHALL BE BY ENGRAVED WHITE CORE, BLACK LAMICOID NAMEPLATE WITH 3/4 IN. LETTERING AFFIXED WITH EPOXY CEMENT.

B. JUNCTION BOXES, SPLICE BOXES, ETC., SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS, FOR CIRCUITS CONTAINED THEREIN. FACEPLATE OF SWITCHES FOR EQUIPMENT SUCH AS MOTORIZED SCREENS, ETC., SHALL BE IDENTIFIED WITH THE NAME OF THE DEVICE CONTROLLED. IDENTIFICATION SHALL BE INDELIBLE MARKER IN CONCEALED LOCATIONS AND ADHESIVE ('P' TOUCH TYPE) LABELS IN EXPOSED LOCATIONS. EMERGENCY DEVICES SHALL BE IDENTIFIED IN RED.

C. EMPTY CONDUITS SHALL BE IDENTIFIED WITH TAGS AT BOTH ENDS INDICATING THE LOCATION OF THE TERMINATION OF THE OPPOSITE END.

D. FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. APPROVED IDENTIFICATION CARDS SHALL BE FURNISHED ADJACENT TO ALL CONTROL PANELS AND MANUAL STATIONS.

E. CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPLICE OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.

F. PANELBOARDS AND ASSOCIATED EQUIPMENT THAT WILL REQUIRE ADJUSTMENT, SERVICING, INSPECTION, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED INDICATING VOLTAGE AND WARNING QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC-FLASH HAZARDS PER NEC SECTION 110.16 AND NFPA 70E.

3. PRODUCT DELIVERY, STORAGE AND HANDLING:

A. MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.

B. ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW. GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.

4. EXISTING EQUIPMENT REFURBISHMENT:

A. WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, TRANSFORMERS, ETC. ARE EXISTING TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS, EXERCISING MECHANISMS AND PROVIDING ANY MISCELLANEOUS COMPONENTS SO THE EQUIPMENT IS IN FIRST CLASS WORKING ORDER.

B. ALL EXISTING LIGHTING FIXTURES TO REMAIN AND RELOCATED LIGHTING FIXTURES IN AREA OF WORK IS TO BE CLEANED AND RELAMPED.

5. PROTECTION:

A. CONTRACTOR SHALL BE RESPONSIBLE FOR WORK AND EQUIPMENT UNTIL FINALLY INSPECTED, TESTED, AND ACCEPTED. MATERIALS AND EQUIPMENT SHALL BE CAREFULLY STORED WHICH ARE NOT IMMEDIATELY INSTALLED AFTER DELIVERY TO SITE. CLOSE EXPOSED PARTS OF THE WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT ENTRY OF MOISTURE OR OBSTRUCTING MATERIALS.

B. PROTECT THE WORK AND MATERIAL OF OTHERS FROM DAMAGE INSTALLED AS PART OF THIS CONTRACT. RESTORE ANY WORK DAMAGED AND BE RESPONSIBLE FOR ALL CURRENT WORK AND ASSOCIATED COSTS.

C. BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED; CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

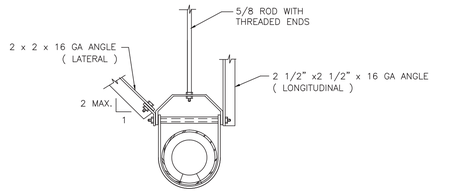
Date: November 30th, 2020

Scale: AS NOTED

Project No. 2K20.015

Drawn by: VH

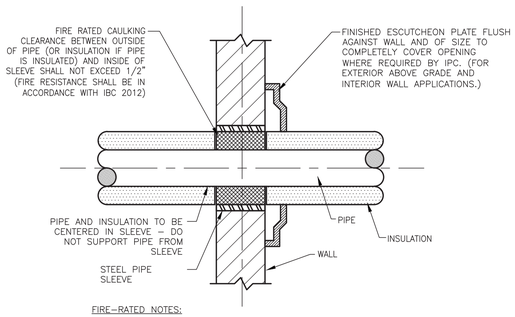
E3.02
ELECTRICAL SPECIFICATIONS (2 OF 2)



1. PROVIDE LONGITUDINAL AND LATERAL BRACING ON PIPING 2 1/2" AND GREATER, GAS PIPING 1" I.D. AND GREATER AND PIPING IN BOILER AND MECHANICAL ROOMS 1 1/4" AND GREATER, WHERE SUSPENDED 12" OR MORE FROM SUPPORTING STRUCTURE.
2. PROVIDE SIMILAR BRACING ON ALL DUCTWORK WITH CROSS-SECTIONAL AREA OF 6 SF OR GREATER OR DIAMETER OF 28 IN. OR GREATER WHERE SUSPENDED 12" OR MORE FROM SUPPORTING STRUCTURE.
3. MAKE END CONNECTIONS TO EXISTING STRUCTURAL STEEL WITH 1/2" BOLTS OR TO CONCRETE DECK PER CONNECTION TO CONCRETE DETAIL ABOVE.

1 PIPE SUPPORT DETAIL

SCALE: NONE

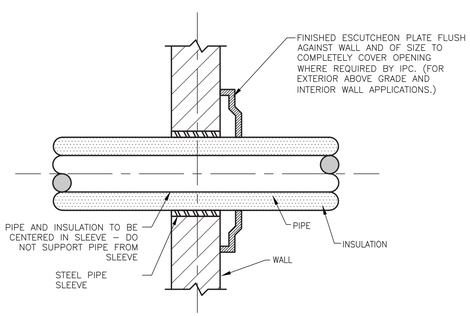


FIRE-RATED NOTES:

- THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRE STOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTME E814 OR UL 1479, WITH A MINUMUM POSITIVE PRESSURE DIFFERENCE OF 0.01 INCH OF WATER.
- THE SYSTEM SHALL HAVE A F-RATING OF NOT LESS THAN ONE HOUR, BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATING.

2 FIRE RATED WALL PIPE PENETRATION DETAIL

SCALE: NONE



NON-RATED NOTES:

- NONFIRE-RESISTANCE-RATED ASSEMBLIES:
  – ANNULAR SPACE MUST BE FILLED TO RESIST FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION WITH AN APPROVED NONCOMBUSTIBLE MATERIAL OR WITH A FILL, VOID, OR CAVITY MATERIAL THAT IS TESTED AND CLASSIFIED FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS.

3 PIPE PENETRATION DETAIL NON-RATED WALL

SCALE: NONE

PLUMBING PIPING SYMBOL LIST

	NEW COLD WATER PIPING
	NEW HOT WATER PIPING
	NEW HOT WATER RETURN PIPING
	NEW SANITARY PIPING
	NEW SANITARY VENT PIPING
CD	NEW CONDENSATE DRAIN PIPING
G	NATURAL GAS OR LIQUID PROPANE PIPING
	PIPING BELOW GRADE
	FLOOR CLEANOUT
	CLEANOUT
	P-TRAP
	FLOOR DRAIN
	FREEZE PROOF HOSE BIBB
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	CAPPED PIPE
	CAPPED AND VALVE CONNECTION
	NEW EQUIPMENT
	NEW PUMP
X	MECHANICAL PLAN NOTE TAG
1	REVISION SYMBOL
	POINT OF NEW CONNECTION TO EXISTING WORK

PLUMBING ABBREVIATIONS

AC	AIR CONDITIONING UNIT
AHU	AIR HANDLING UNIT
BFP	BACKFLOW PREVENTOR
CD	CONDENSATE DRAIN
CO	CLEAN OUT
CP	CONDENSATE PUMP
CW	DOMESTIC COLD WATER PIPING
DN	DOWN (PENETRATES FLOOR SLAB)
FD	FLOOR DRAIN
FOG	FATS, OILS AND GREASE
FT	FEET
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HW	HOT WATER PIPING
HWH	HOT WATER HEATER
HWR	HOT WATER RETURN PIPING
LAV	LAVATORY
NG	NATURAL GAS PIPING
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
MBH	THOUSAND BTU PER HOUR
MS	MOP SINK
PC	PUMPED CONDENSATE
PD	PUMPED DISCHARGE
PSI	POUNDS PER SQUARE INCH
PH	PHASE
SAN	SANITARY PIPING
SK	SINK
SQ FT	SQUARE FEET
TYP	TYPICAL
UR	URINAL
V	VENT PIPING
VTR	VENT THROUGH ROOF
WC	WATER CLOSET

GENERAL NOTES

1. THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT AND PIPING FABRICATION DRAWING APPROVAL.
2. ANY MATERIAL, WORK OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
3. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE: ONLY BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE AND VENT PIPING SYSTEMS. FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE, REFER TO THE PLUMBING FIXTURE SCHEDULE.
4. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING WORK WITH ALL OTHER TRADES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, HVAC, SPRINKLER STRUCTURAL AND GENERAL ARCHITECTURAL.
5. WHERE PIPING CONNECTIONS FOR EQUIPMENT DIFFER FROM THE LINE SIZE PIPING. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
6. ALL PIPING LOCATED ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT BE SUPPORTED BY THE CEILING TILES OR CEILING STRUCTURE.
7. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON THE DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
8. PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 50 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED. ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES
9. COORDINATE MOUNTING HEIGHTS OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS.
10. ALL PIPING SHALL SLOPE TO LOW POINTS. PROVIDE HOSE AND DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
11. ALL WATER PIPING RUNNING ABOVE ELECTRICAL SERVICES SHALL BE PROVIDED WITH DRAIN PAN UNDERNEATH. PIPING FROM DRAIN PAN SHALL EXTEND TO NEAREST FLOOR DRAIN.
12. ALL OPENINGS THRU FIRE RATED WALLS OR FLOORS SHALL BE SEALED WITH AN APPROVED FIREPROOFING MATERIAL TO MAINTAIN THE INTEGRITY OF THE WALL OR FLOORS.
13. PROVIDE TRAP PRIMER FOR EACH FLOOR DRAIN AND HUB DRAIN. CONNECT TRAP PRIMER TO NEAREST COLD WATER MAIN; PROVIDE ISOLATION VALVE AND EXTEND TO FLOOR DRAIN AS REQUIRED.
14. PROVIDE CONDENSATE DRAINS FOR ALL COOLING COILS; PIPE BY GRAVITY TO INDIRECT WASTE.
15. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRED VIBRATION ISOLATION, EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.
16. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
17. ALL PIPING SHALL BE INSTALLED TIGHT TO THE BOTTOM OF STEEL AT ALL TIMES UNLESS OTHERWISE INDICATED OR REQUIRED BY FIELD CONDITIONS.
18. INSTALL WATER HAMMER ARRESTERS ON ALL PIPING SERVING QUICK CLOSING VALVES.
19. PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
20. ALL PIPING OF DISSIMILAR MATERIALS SHALL HAVE DIELECTRIC FITTINGS.
21. VERIFY ALL UTILITY POINTS OF CONNECTION WITH SITE/CIVIL PLANS.
22. ALL PIPING SUBJECT TO FREEZING OR UNCONDITIONED SPACES SHALL BE INSULATED IN ACCORDANCE WITH LATEST PLUMBING CODE AND CT BUILDING CODE.

DEMOLITION NOTES

1. DEMOLITION NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CAPPED AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
3. AFTER REMOVING PIPING THROUGH FLOOR SLABS, PENETRATIONS SHALL BE PATCHED WITH APPROVED FIRE-RATED MATERIAL.
4. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF PLUMBING WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
5. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING PLUMBING SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
6. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
7. THE CONTRACTOR SHALL REMOVE ALL PIPING SUPPORTS, ECT. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN. THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
8. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORTS FOR ALL EXISTING PIPING TO REMAIN THAT IS AFFECTED BY DEMOLITION OF THE EXISTING CEILING AND PARTITIONS.
9. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERNATION WORK SHALL BE REROUTED CONCEALED BEHIND FINISHED SURFACES.
10. PORTIONS OF PIPING TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
11. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
12. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE PLUMBING CONTRACTOR, AS DIRECTED BY THE OWNER.
13. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
14. THE SHUTDOWN OF EXISTING BUILDING PLUMBING SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.
15. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE & LOCAL REQUIREMENTS.

PIPING AND FITTINGS SCHEDULE

SYSTEM	PIPING	FITTINGS	REMARKS
DOMESTIC WATER	TYPE L HARD DRAWN COPPER TUBING	COPPER – CAST BRONZE OR COPPER SWEAT FITTINGS JOINED WITH TIN/ANTIMONY LEAD-FREE SOLDER	–
SANITARY, WASTE, AND VENT	SERVICE WEIGHT HUBLESS CAST IRON	SERVICE WEIGHT HUBLESS CAST IRON JOINED W/APPROVED STAINLESS MECHANICAL COUPLINGS W/NEOPRENE RESILIENT GASKETS	NO-HUB COUPLINGS SHALL BE 4-BAND EQUAL TO HUSKY SD-4000.

PIPE INSULATION SCHEDULE

SYSTEM	PRODUCT MANUFACTURER	INSULATION THICKNESS	REMARKS
DOMESTIC COLD WATER PIPING, FITTINGS, AND VALVES (40°F – 60°F)	JOHN MANVILLE MICRO-LOK HP OR APPROVED EQUAL. PROVIDE PVC COVERS ON ALL EXPOSED PIPING	LESS THAN 1-1/4" – 1" 1-1/2" TO 4" – 1-1/2"	ALTERNATE PRODUCTS SHALL HAVE A CONDUCTIVITY OF 0.21-0.28 BTU-IN/(H-FT2-°F). PROVIDE ALL EXPOSED PIPING WITH PVC PIPE COVERS
DOMESTIC HOT WATER AND HOT WATER RECIRCULATION PIPING, FITTINGS AND VAVLES (105°F – 140°F)	JOHN MANVILLE MICRO-LOK HP OR APPROVED EQUAL. PROVIDE PVC COVERS ON ALL EXPOSED PIPING	LESS THAN 1-1/4" – 1/2" 1-1/2" TO 4" – 1"	ALTERNATE PRODUCTS SHALL HAVE A CONDUCTIVITY OF 0.21-0.27 BTU-IN/(H-FT2-°F). PROVIDE ALL EXPOSED PIPING WITH PVC PIPE COVERS.

PLUMBING FIXTURE SCHEDULE

UNIT TAG	TYPE	MATERIAL / COLOR	MANUFACTURER / MODEL	FAUCET DATA MANUFACTURER	FAUCET DATA MODEL	TRIM/ELEC.	CONNECTION SIZES CW	HW	SAN	TRAP	REMARKS
A	MS	MOLDED STONE WHITE	FIAT MSBIDTG2424	FIAT	830-AA	FIAT E-77-AA FIAT 832-AA	1/2"	1/2"	2"	2"	–

PLUMBING DRAWING INDEX

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Built on trust.
STURBRIDGE, MA
200 CHARLTON ROAD

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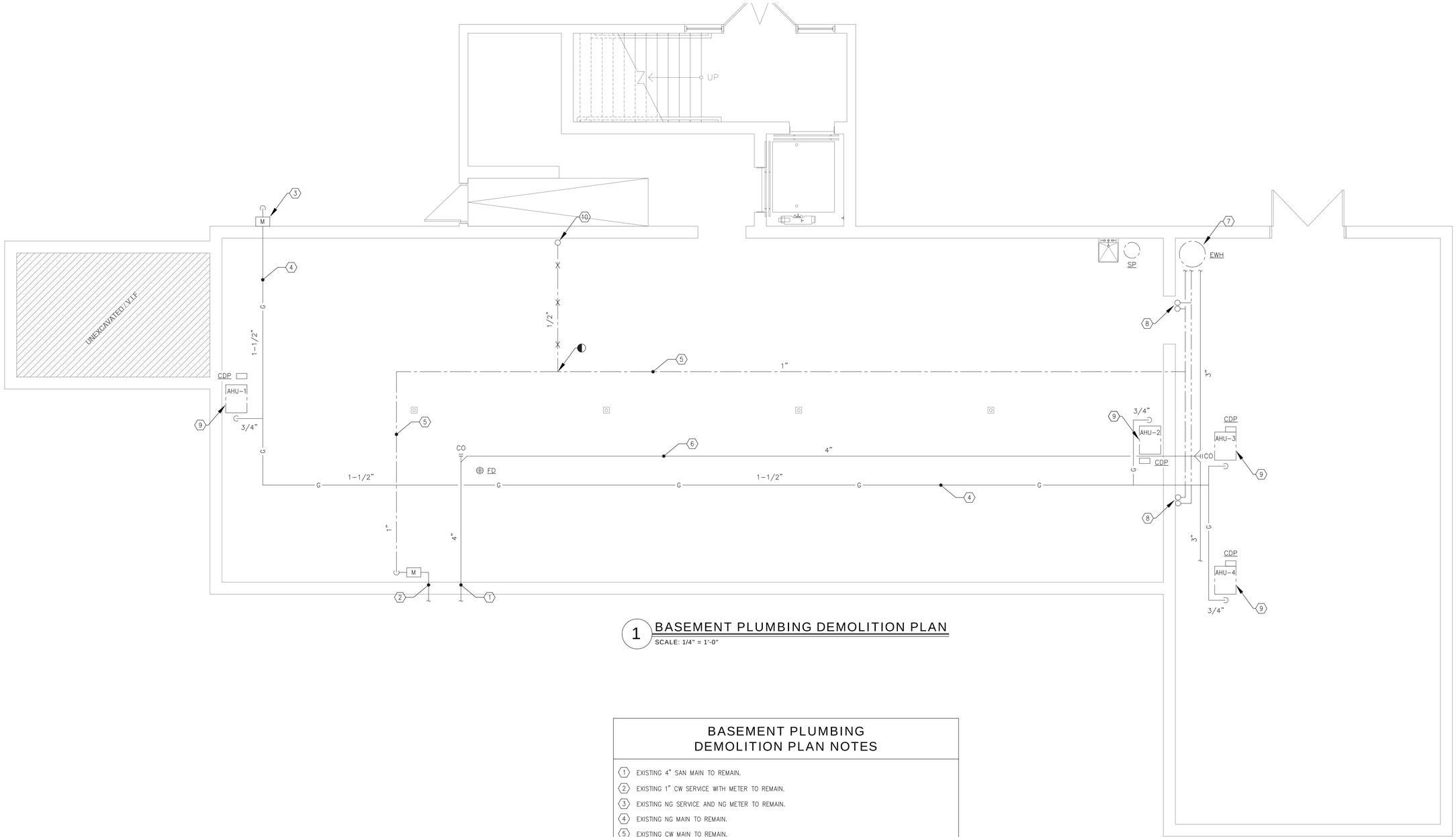
Drawn by: AG, LH

P0.01
PLUMBING NOTES, LEGEND & DETAILS



1 BASEMENT PLUMBING DEMOLITION PLAN

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

BASEMENT PLUMBING DEMOLITION PLAN NOTES

1. EXISTING 4" SAN MAIN TO REMAIN.
2. EXISTING 1" CW SERVICE WITH METER TO REMAIN.
3. EXISTING NG SERVICE AND NG METER TO REMAIN.
4. EXISTING NG MAIN TO REMAIN.
5. EXISTING CW MAIN TO REMAIN.
6. EXISTING SAN MAIN TO REMAIN.
7. EXISTING EWH SERVING EXISTING FIXTURES TO REMAIN.
8. EXISTING 1/2" CW AND 1/2" HW SERVING FIXTURES TO REMAIN.
9. EXISTING MECHANICAL EQUIPMENT WITH CONDENSATE PUMP AND NG CONNECTION TO REMAIN.
10. EXISTING 1/2" CW ROUTED UP TO EXISTING COFFEE MAKER TO BE DEMOLISHED.

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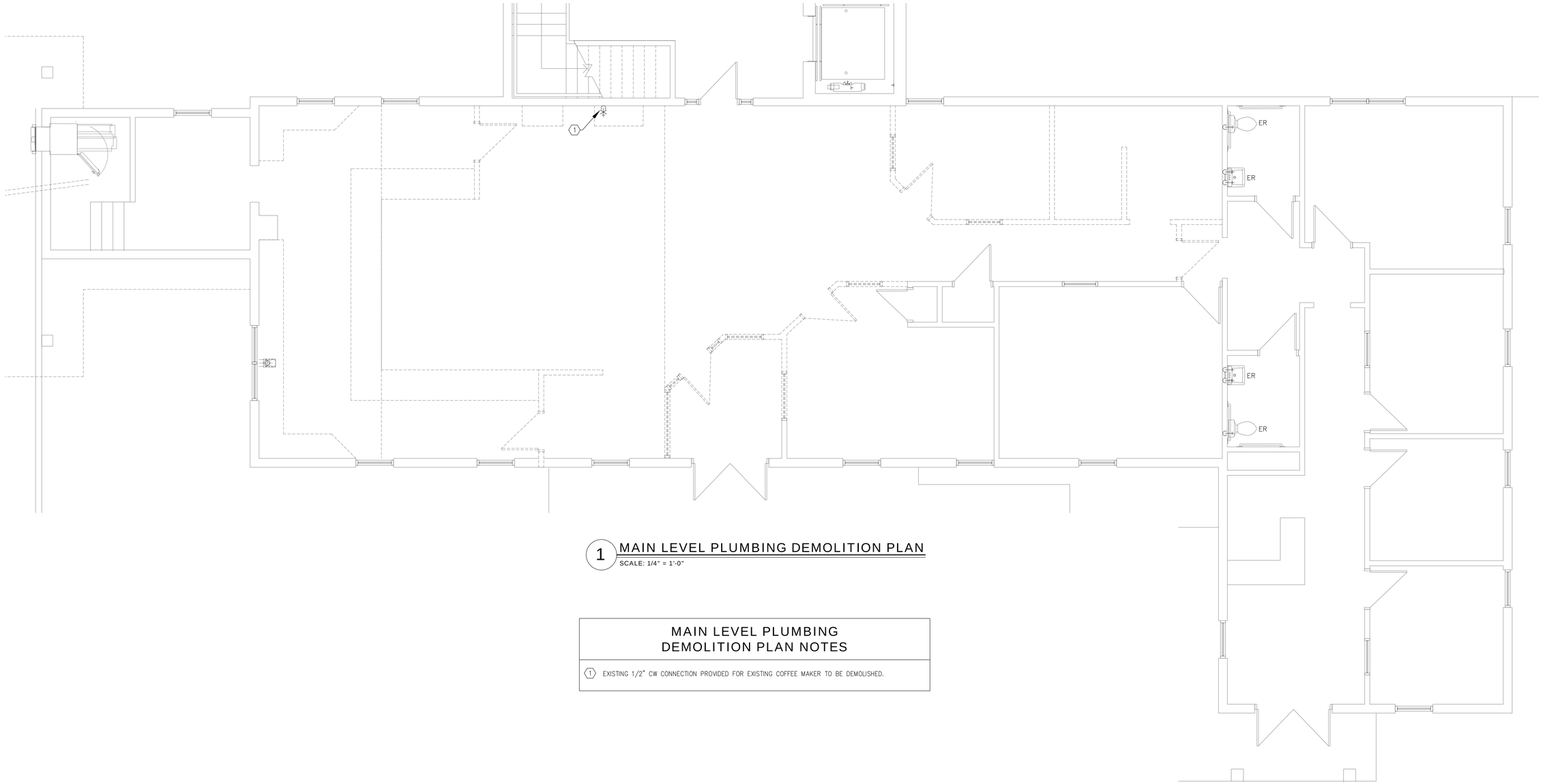

1 MAIN LEVEL PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

MAIN LEVEL PLUMBING DEMOLITION PLAN NOTES

1. EXISTING 1/2" CW CONNECTION PROVIDED FOR EXISTING COFFEE MAKER TO BE DEMOLISHED.

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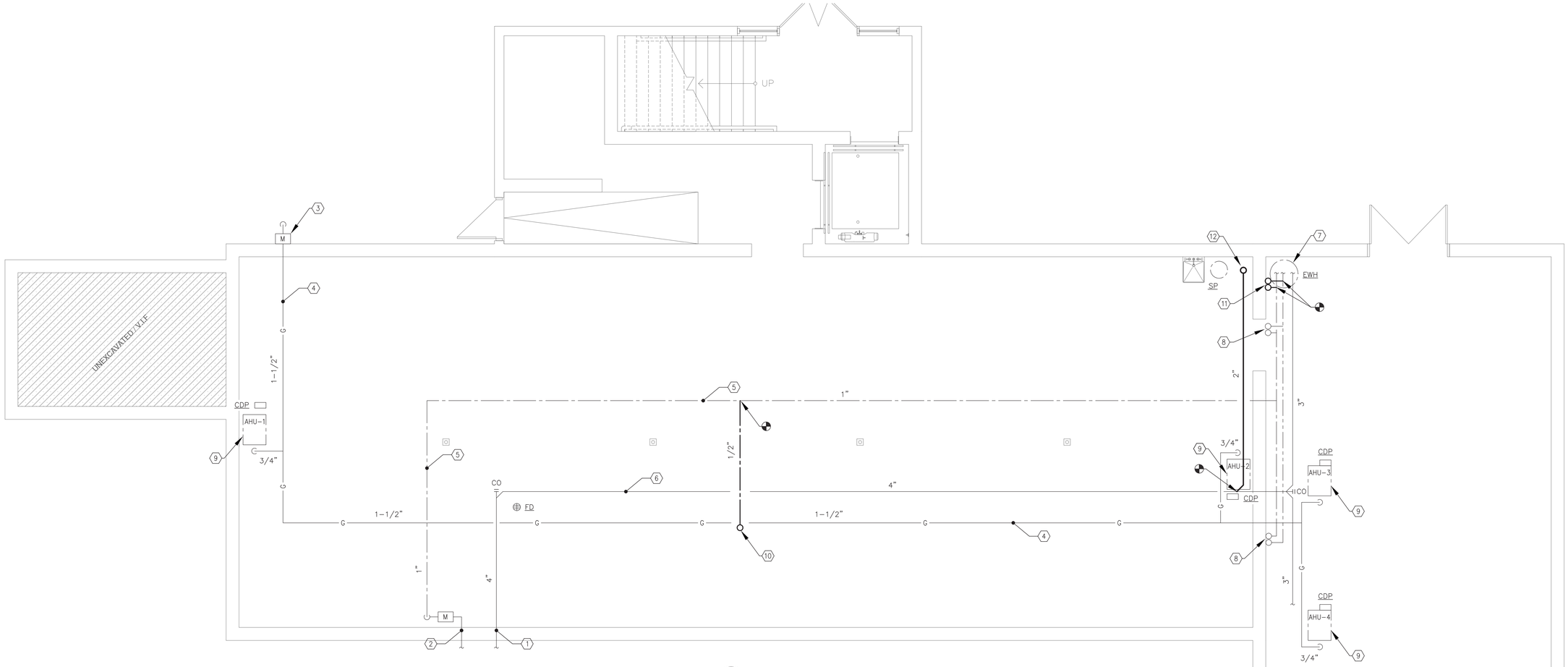
P1.02

MAIN LEVEL PLUMBING DEMOLITION PLAN



1 BASEMENT PLUMBING PLAN

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

BASEMENT PLUMBING PLAN NOTES

1. EXISTING 4" SAN MAIN.
2. EXISTING 1" CW SERVICE WITH METER.
3. EXISTING NG SERVICE AND NG METER.
4. EXISTING NG MAIN.
5. EXISTING CW MAIN.
6. EXISTING SAN MAIN.
7. EXISTING EWH SERVING EXISTING FIXTURES.
8. EXISTING 1/2" CW AND 1/2" HW SERVING FIXTURES.
9. EXISTING MECHANICAL EQUIPMENT WITH CONDENSATE PUMP AND NG CONNECTION.
10. NEW 1/2" CW ROUTED UP TO NEW COFFEE MAKER. COORDINATE EXACT LOCATION WITH END USER.
11. NEW 1/2" CW AND 1/2" HW ROUTED UP TO NEW MOP SINK.
12. NEW 2" SAN ROUTED UP TO NEW MOP SINK.

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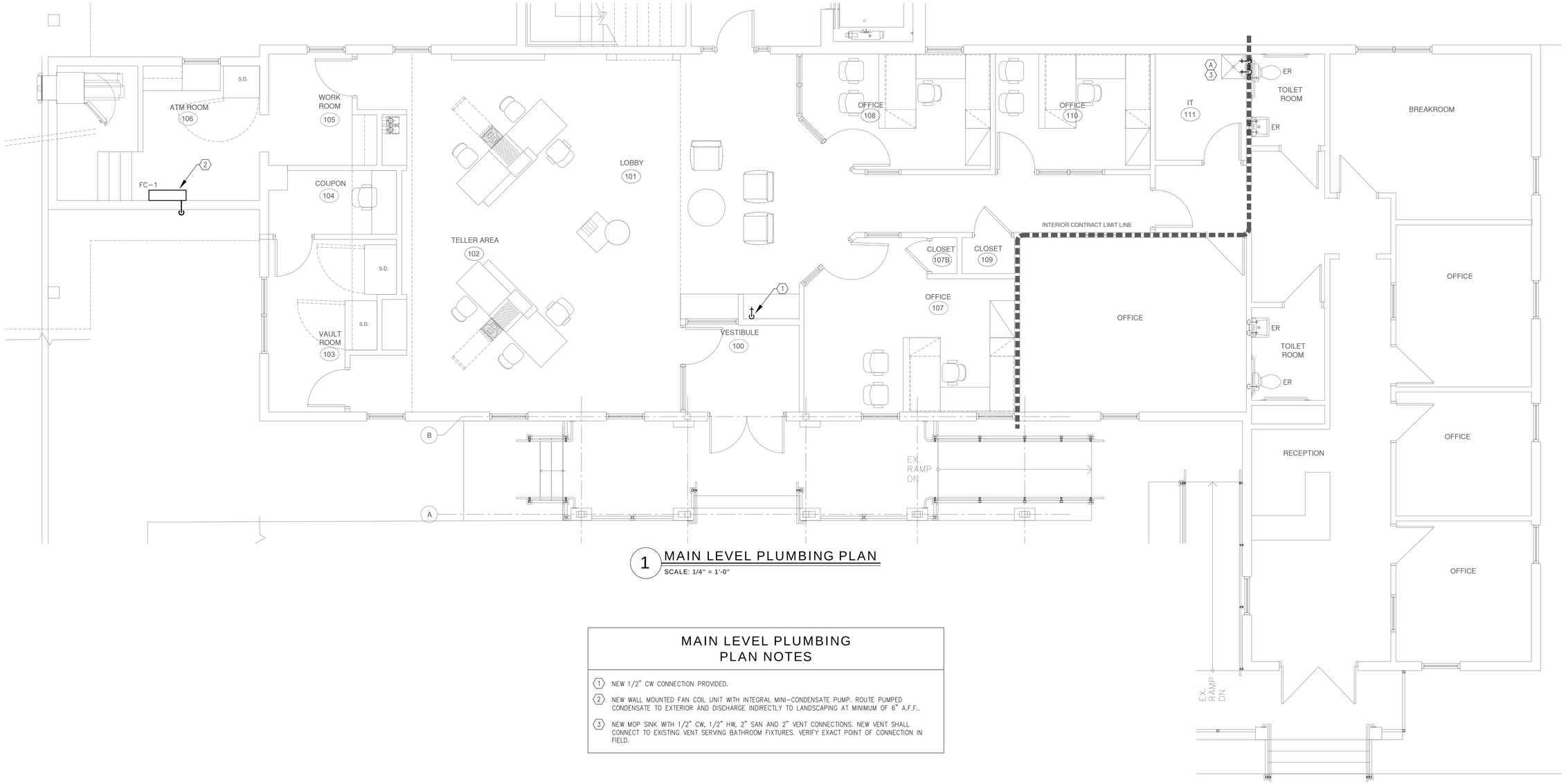
P2.01

BASEMENT PLUMBING PLAN



1 MAIN LEVEL PLUMBING PLAN

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

MAIN LEVEL PLUMBING PLAN NOTES

1. NEW 1/2" CW CONNECTION PROVIDED.
2. NEW WALL MOUNTED FAN COIL UNIT WITH INTEGRAL MINI-CONDENSATE PUMP. ROUTE PUMPED CONDENSATE TO EXTERIOR AND DISCHARGE INDIRECTLY TO LANDSCAPING AT MINIMUM OF 6" A.F.F..
3. NEW MOP SINK WITH 1/2" CW, 1/2" HW, 2" SAN AND 2" VENT CONNECTIONS. NEW VENT SHALL CONNECT TO EXISTING VENT SERVING BATHROOM FIXTURES. VERIFY EXACT POINT OF CONNECTION IN FIELD.

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RENOVATIONS FOR:
Cornerstone Bank
Built on trust.
200 CHARLTON ROAD
STURBRIDGE, MA

Issuances:

Date: November 30th, 2020

Scale: AS NOTED

Project No. 2K20.015

Drawn by: AG, LH

P2.02
MAIN LEVEL PLUMBING PLAN

PLUMBING SPECIFICATIONS

1. GENERAL REQUIREMENTS:

   A. PROVIDE ALL PLUMBING WORK SHOWN ON THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH THE LATEST LOCAL AND STATE CITY BUILDING.

   B. PATCH AND/OR REPLACE DAMAGED ARCHITECTURAL COMPONENTS AS A RESULT OF SYSTEM INSTALLATION. CLEAN UP THE CONSTRUCTION SITE DAILY DURING CONSTRUCTION SO AS NOT TO INTERFERE WITH THE WORK OF OTHER TRADES, AND AFTER THE COMPLETION OF INSTALLATION AND TESTING.

   C. THE CONTRACTOR SHALL EXAMINE THE PREMISED BEFORE SUBMITTING HIS BID, AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH CONDITIONS WHICH AFFECT HIS WORK.

   D. REPORT ANY CONDITIONS WHICH WOULD PREVENT THE INSTALLATION OF THE WORK TO THE ARCHITECT PRIOR TO STARTING ANY WORK.

   E. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN INSTALLING PIPING IN FINISHED WALLS, PARTITIONS, AND HUNG CEILINGS.

   F. INTERRUPTION OF EXISTING BUILDING SERVICES IN ORDER TO CONNECT NEW PIPING TO EXISTING SHALL BE MADE AT SUCH TIME AS TO CAUSE THE LEAST INTERFERENCE WITH ESTABLISHED BUILDING OPERATING PROCEDURE. ALL EXISTING SERVICE SHUTDOWNS SHALL BE SUPERVISED AS DIRECTED BY BUILDING MANAGEMENT. THE CONTRACTOR SHALL GIVE NOTICE 48 HOURS PRIOR TO ANY SHUTDOWN.

   G. LOCATION OF EXISTING BUILDING SERVICES IN ORDER TO CONNECT NEW PIPING TO EXISTING SHALL BE MADE AT SUCH TIME AS TO CAUSE THE LEAST PLUMBING CONTRACTOR SHALL PAY ALL FEES, OBTAIN ALL PERMITS AND APPROVALS NECESSARY FOR THE COMPLETION OF ALL WORK SHOWN ON THE CONTRACT DRAWINGS.

   H. THE PLUMBING CONTRACTOR SHALL PAY ALL FEES, OBTAIN ALL PERMITS AND APPROVALS NECESSARY FOR THE COMPLETION AND NEW WORK SHOWN ON THE CONTRACT DRAWINGS.

   I. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE EXISTING CONDITIONS AND NEW WORK OF ALL THE OTHER TRADES.

   J. PROVIDE NEW PLUMBING FIXTURES, PIPING AND EQUIPMENT WHERE SHOWN ON THE CONTRACT DRAWINGS. CONNECT NEW PIPING TO EXISTING STACKS AND RISERS.

   K. PREPARE AS–BUILT DRAWINGS INDICATING ACTUAL LOCATIONS OF PLUMBING FIXTURES AND PIPING. AS–BUILT DRAWINGS SHALL BE SUBMITTED TO THE OWNER UPON COMPLETION OF INSTALLATION AND TESTING. SUBMIT THREE SETS OF PRINTS AND ONE SET OF REPRODUCABLES. IN ADDITION PROVIDE ON DISK TO OWNER THE AS–BUILT CONDITIONS IN AUTOCAD 2004.

2. EXAMINATION OF CONTRACT DOCUMENTS:

   A. EXAMINE THE CONTRACT DOCUMENTS OF THIS TRADE AND ALL OTHER TRADES FOR THIS PROJECT. VERIFY ALL EXISTING CONDITIONS AT THE SITE, AND BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK IN THE BUILDING. SUBMITTAL OF A BID IS AN AGREEMENT THAT ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE FULLY UNDERSTOOD.

   B. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS SPECIFIED, OR UNSPECIFIED, NECESSARY TO PROVIDE ALL WORK SHOWN ON THE CONTRACT DOCUMENTS IN ACCORDANCE WITH THE LOCAL BUILDING CODE.

   C. REPORT, IN WRITING, TO THE ARCHITECT ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK OF THIS SECTION. DO NOT COMMENCE WORK UNTIL ANY AND ALL SUCH CONDITIONS HAVE BEEN CORRECTED BY THE TRADE OR TRADES RESPONSIBLE.

   D. FAILURE TO NOTIFY THE ARCHITECT OF UNSATISFACTORY CONDITIONS WILL BE CONSIDERED AS AN ACCEPTANCE OF ALL CONDITIONS.

   E. THE EXECUTION OF THE WORK OF THIS SECTION CONSTITUTES ACCEPTANCE OF THE BASE OR ADJOINING WORK AND OTHER CONDITIONS AS BEING SATISFACTORY IN EVERY RESPECT AND LATER CLAIMS OF DEFECTS IN SUCH CASES WILL NOT BE ALLOWED.

   F. THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBED THE GENERAL ARRANGEMENT AND THE APPROXIMATE LOCATION OF EQUIPMENT, FIXTURES, PIPING ETC. EXACT LOCATIONS MAY BE ADJUSTED IN THE FIELD TO SUIT EXISTING CONDITIONS.

   G. THE CONTRACTOR SHALL WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH THE WORK OF OTHER TRADES, OR FOR THE PROPER INSTALLATION OF THE WORK.

3. QUALITY ASSURANCE:

   A. ALL PIPES SHALL BE MARKED TO INDICATE MANUFACTURER AND ASTM STANDARD. EACH FULL TYPE LENGTH SHALL HAVE THE MANUFACTURER'S NAME CAST, STAMPED OR ROLLED ON.

   B. EACH FIXTURE SHALL HAVE THE MANUFACTURER'S SYMBOL AND PRESSURE RATING CAST, STAMPED OR ROLLED ON.

4. SCOPE OF WORK:

   A. FURNISH AND INSTALL NEW PLUMBING FIXTURES, PIPING AND EQUIPMENT WHERE INDICATED ON THE CONTACT DRAWINGS. CONNECT TO EXISTING STACKS AND RISERS.

   B. PROVIDE AND INSTALL ALL NEW WORK IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS.

   C. PROVIDE ROUGH CUTTING AND PATCHING FOR THE INSTALLATION OF NEW PIPING.

5. SUBMITTALS:

   A. SUBMIT THE FOLLOWING ITEMS FOR APPROVAL:

      1. PLUMBING FIXTURES, SUPPORTS AND TRIM
      2. PIPE MATERIAL
      3. FITTINGS
      4. HANGERS, ESCUTCHEONS AND SLEEVES
      5. INSULATION
      6. VALVES
      7. WATER HEATER
      8. FLOOR DRAIN
      9. VALVE TAGS & CHART

   B. PREPARE AND SUBMIT PIPING INSTALLATION DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SUCH APPROVAL SHALL NOT RELIEVE CONTRACTOR OF INSTALLATION RESPONSIBILITIES.

6. PRODUCT DELIVERY, STORAGE AND HANDLING:

   A. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE ON–TIME DELIVERY OF HIS MATERIALS AND EQUIPMENT.

   B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL EQUIPMENT, FIXTURES, PIPES, VALVES, ETC., EITHER AT THE JOB SITE WHERE DIRECTED BY THE OWNER'S REPRESENTATIVE OR IN HIS OWN WAREHOUSE.

   C. ANY EQUIPMENT, FIXTURES OR PIPING DAMAGED DURING HANDLING, STORAGE OR INSTALLATION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

7. GUARANTEE:

   A. AS PART OF THIS CONTRACT, THE PLUMBING CONTRACTOR SHALL GUARANTEE AND CERTIFY THAT ALL WORK INCLUDED IN THESE CONTRACT DOCUMENTS IS FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE. THE PLUMBING CONTRACTOR SHALL REPAIR OR REPLACE ANY MATERIALS FOUND TO BE DEFECTIVE FOR THAT PERIOD OF TIME. OWNER'S FINAL ACCEPTANCE STARTS WHEN FINAL PAYMENT TO THE CONTRACTOR IS MADE.

8. PIPE AND FITTINGS:

   A. ALL MATERIALS SHALL BE NEW AND INSTALLED IN A FIRST CLASS MANNER.

   B. PIPE AND FITTINGS SHALL CONFORM TO THE LATEST ASA, ASTM, AND/OR FS STANDARD. IN ADDITION ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.

   C. REFER TO PIPING AND FITTINGS SCHEDULE ON DRAWING P0.01 FOR PIPING MATERIALS.

9. VALVES:

   A. ISOLATION CONTROL VALVES (2–1/2" AND SMALLER): BRONZE TWO–PIECE BALL TYPE 250 PSI WSP, THREADED ENDS, AND SOLDERED JOINT END SIMILAR TO CONBRACO, APOLLO 70–300 SERIES.

   B. CHECK VALVES: BRONZE SWING TYPE, 125 PSI, SIMILAR TO STOCKHAM NO. B–319.

   C. THROTTLING VALVES: GLOBE BRONZE, SOLDER ENDS, CLASS 125 SIMILAR TO STOCKHAM NO. B–14T.

   D. GAS VALVES:

      1. FOR GAS PIPING, 2" SIZE AND SMALLER, A TOP ENTRY VALVE, CRANE "ACCESSO" WITH BUENA "N" SEAT IN CARBON STEEL BODY AND FIXED HANDLE, SHALL BE USED.

      2. VALVES FOR GAS PIPING, 2–1/2" AND LARGER SHALL BE IRON, THREADED END CONSTRUCTION, LUBRICATED PLUG COCK WITH SQUARE HEAD OPERATING PLUG. VALVE SHALL BE RATED AT 2003 W.O.G. VALVE SHALL BE WALWORTH CO. NO. 1700F.

10. INSULATION (INDOORS):

   A. COLD, HOT WATER PIPING, HORIZONTAL STORM PIPING AND HORIZONTAL FLOOR DRAIN WASTE PIPING IN MECH. ROOMS.

      1. JOHN MANSVILLE MICRO–LR 850 FIBERGLASS PIPE INSULATION TYPE AP–T, 1 INCH THICK COMPOSITE INSULATION. FIRE AND SMOKE HAZARD RATING NOT TO EXCEED A FLAME SPREAD OF 25 OR SMOKE DEVELOPMENT OF 50.

   B. COLD, HOT WATER, HORIZONTAL STORM PIPING FITTINGS AND VALVES.

      1. JOHN MANSVILLE PRE–CUT, HI–LO TEMP INSULATION INSERTS AND ZESTON 25/50 RATING PVC INSULATED FITTING COVERS.

11. HANGERS:

   A. EXCEPT AS OTHERWISE INDICATED, PROVIDE FACTORY FABRICATED HANGERS, CLAMPS, RODS, BUILDING ATTACHMENTS, SADDLES AND SHIELDS COMPLYING WITH ANSI MSS–SP–58. CONTRACTOR SHALL SELECT AND APPLY HANGERS AND SUPPORTS IN ACCORDANCE WITH MSS–SP–69.

   B. ALL HANGER, ANCHORS AND SUPPORTS SHALL BE AS MANUFACTURES BY THE FEE AND MASON COMPANY OR APPROVED EQUAL AS FOLLOWS:

      1. ALL BARE HORIZONTAL CAST IRON PIPING SHALL BE HUNG WITH FIG. #239 ADJUSTABLE GALVANIZED STEEL HANGERS.

      2. ALL INSULATED HORIZONTAL PIPING SHALL BE HUNG WITH FIG. #239 ADJUSTABLE GALVANIZED STEEL CLEVIS HANGERS WITH FIG. #71 RIGID INSULATION SADDLE. SADDLE BA S 180" SECTION OF 1 INCH POLYURETHANE FOAM, ALUMINUM FACED, WATERPROOF JACK EXTENDING ALL AROUND A 180" SECTION OF GALVANIZED METAL SHIELD. SHIELD AND SECTION OF INSULATION SHALL BE FIBERGLASS AS SPECIFIED IN INSULATION SECTIONS OF THE SPECIFICATION.

      3. VERTICAL LINES SHALL BE SUPPORTED BY MEANS OF RISER CLAMPS. RISER CLAMPS SHALL FIT EXACT PIPE SIZE OR BARE PIPES. FOR CAST IRON PIPES USE FIG. #241. TWO BOLT, GALVANIZED BLACK STEEL CLAMPS OR FIG. #368 CARBON STEEL COPPER PLATED RISER CLAMP.
      4. RODS FOR PIPE HANGERS SHALL BE FIG. #263. CONTINUOUS THREADED ROD, GALVANIZED STEEL SIZED FOR THE LOAD REQUIRED.

   C. INSTALLATION

      1. ATTACH HANGER RODS TO THE BUILDING IN A MANNER APPROVED BY THE ARCHITECT.

      2. DO NOT HANG PIPING FROM DUCTWORK OR OTHER PIPING.

      3. THE CONTRACTOR MAY COORDINATE WITH THE OTHER WORK OR EXISTING PIPING TO USE A COMMON MEANS OF SUPPORT. SUBMIT FOR APPROVAL ALL PERTINENT DESIGN DATA RELATING TO THE SUPPORT AS WELL AS VERIFICATION OF THE RESPONSIBILITY FOR THE SUPPORT.

      4. HANGERS SHALL NOT PENETRATE INSULATION

   D. INTERVAL OF SUPPORTS

      1. HORIZONTAL PIPING SHALL BE SUPPORTED AT INTERVALS AS FOLLOWS:

         a. CAST IRON PIPE SHALL BE SUPPORTED AT 5 FT. INTERVALS

         b. COPPER TUBING SHALL BE SUPPORTED AT 6 FT. INTERVALS

      2. ADDITIONAL HANGERS TO PREVENT SAGGING WILL BE ADDED AS REQUIRED.

12. SLEEVES

   A. PROVIDE SLEEVES FOR ALL PIPES PASSING THROUGH FLOORS, WALLS AND PARTITIONS.

      1. SLEEVES THROUGH WALLS, AND WHERE SERVING EXPOSED PIP PENETRATING FLOORS SHALL BE SCHEDULE 40 STEEL PROVIDED WHERE NECESSARY.

      2. SLEEVES WITHIN FURRED OUT ENCLOSURE SHEET ROCK PARTITIONS AND BLOCK WALLS SHALL BE 18 GAUGE GALVANIZED SHEET METAL.

   B. PROVIDE OPENINGS WITH AN I.D. AT LEAST 1/2 INCH GREATER THAN THE OUTSIDE OF THE PIPE SERVED.

   C. DO NOT SUPPORT PIPES BY RESTING PIPE CLAMPS ON SLEEVES.

13. PLUMBING FIXTURES AND TRIM

   A. PLUMBING FIXTURES AND TRIM

      1. FURNISH AND INSTALL NEW PLUMBING FIXTURES AND TRIM WHERE SHOWN ON THE CONTRACT DRAWINGS. THE ARCHITECT'S INTERIOR FINISH DRAWINGS SHALL BE FOLLOWED FOR THE LOCATION OF ALL NEW FIXTURES.

      2. FIXTURES SHALL BE SET LEVEL AND SQUARE WITH RELATION TO FINISHED FLOOR AND WALL LINES.

      3. FAUCETS SHALL BE CHROME–PLATED BRASS, MONEL OR STAINLESS MATERIALS SHALL BE THOROUGHLY CLEANED AND POLISHED BEFORE PLATING. PLATE SHALL BE HEAVY, THOROUGHLY AND EVENLY APPLIED, AND GUARANTEED NOT TO STRIP OR PEEL. PLATED WORK SHALL BE HIGHLY BUFFED. FAUCETS SHALL HAVE METAL INDICES AND SHALL BE OF THE RENEWABLE SEAT TYPE.

      4. EACH FIXTURE SUPPLY CONNECTION SHALL BE PROVIDED WITH INDIVIDUAL SHUT–OFF OR STOP VALVES.

      5. ESCUTCHEONS SHALL BE ONE PIECE CAST BRASS CHROMIUM–PLATES AND SHALL BE PROVIDED WITH SET SCREWS TO PROPERLY HOLD ESCUTCHEON IN PLACE.

      6. BEFORE FINAL ACCEPTANCE, ADJUST FIXTURE STOPS FOR AN AMPLE NON–SPLASHING FLOW.

      7. WHERE WASTE, VENT OR WATER SUPPLY PIPING IS EXPOSED TO VIEW AT FIXTURES, THE PIPES ALL BE CHROMIUM–PLATED. NO COVER TUBING WILL BE PERMITTED.

      8. NECESSARY CARRIERS, BRACKETS, PLATES, CLEATS, BOLTS, ETC. SHALL BE FURNISHED FOR SECURING FIXTURES RIGIDLY IN PLACE.

      9. SPACES BETWEEN PLUMBING FIXTURES AND FLOORS, WALLS OR COUNTERS SHALL BE SEALED WITH A WATERPROOF SEALANT TO PREVENT WATER SEEPAGE.

      10. PROVIDE VACUUM BREAKERS WHERE REQUIRED FOR SUBMERGED INLETS.

   B. FIXTURE INSTALLATION

      1. EACH FIXTURE SHALL BE INDIVIDUALLY CONTROLLED WITH INDIVIDUAL STOPS.

      2. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLUMBING FIXTURES FROM DAMAGE.

      3. UPON COMPLETION OF INSTALLATION AND TESTING, PLUMBING FIXTURES SHALL BE CLEANED AND LEFT IN FIRST CLASS CONDITION AND IN WORKING ORDER.

14. ESCUTCHEONS

   A. INSTALL ESCUTCHEONS ON BOTH SIDES OF CONSTRUCTION WHEREVER PIPES PASS THROUGH WALLS, FLOORS, PARTITIONS OR CEILINGS. ESCUTCHEONS SHALL BE HELD IN PLACE WITH SET SCREWS. TAKE SPECIAL CARE TO PROTECT ESCUTCHEONS DURING THE COURSE OF CONSTRUCTION.

   B. ESCUTCHEON APPLICATION SCHEDULE

      1. FINISHED SPACES SHALL BE POLISHED BRASS.

      2. UNFINISHED SPACES SHALL BE PLAIN BRASS OR CAST IRON.

15. VACUUM BREAKER

   A. VACUUM BREAKER (TYPE A) – CAST BRASS CHROME PIPE IS EXPOSED TO PUBLIC VIEW SIMILAR TO WATTS NO. 800MCQT. (CONSTANT PRESSURE VACUUM BREAKER).

   B. VACUUM BREAKER (TYPE B) – CAST BRASS CHROME PIPE IF EXPOSED TO PUBLIC VIEW SIMILAR TO WATTS NO. 909–S.

   C. PROVIDE WHERE INDICATED ON THE DRAWINGS

16. DISINFECTION

   A. DISINFECTION INTERIOR POTABLE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF LOCAL BUILDING CODE.

17. DISSIMILAR METALS

   A. PROVIDE ISOLATION FLANGES FOR CONNECTIONS WITH ANY DISSIMILATION METALS.

18. INSTALLATION

   A. ALL DRAINAGE PIPING 3" AND LARGER SHALL RUN AT A UNIFORM GRADE OF AT LEAST 1/8" PER FOOT, UNLESS OTHERWISE INDICATED. ALL DRAINAGE PIPING AT 2" AND SMALLER PITCH AT 1/4" PER FOOT MINIMUM.

   B. ALL DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE EASY BENDS WITH LONG TURN FITTINGS. DRAINAGE PIPING AT FIRST FLOOR CEILING SHALL BE RUN AS HIGH AS EXISTING CONDITIONS WILL PERMIT.

   C. ALL VENT PIPES SHALL BE GRADED TO FREE THEMSELVES OF ANY WATER OR CONDENSATION.

   D. ALL WATER PIPING SHALL RUN FREE OF TRAPS AND UNNECESSARY BENDS. ANY TRANSFORMED SHALL BE PROVIDED WITH VALVES TO COMPLETELY DRAIN THE SYSTEM. ALL HOT AND COLD WATER PIPING SHALL BE SEPERATED BY A MINIMUM OF 6" ON CENTER.

   E. ALL CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC UNIONS.

   F. ALL PIPING SHALL HAVE REDUCING FITTINGS. NO BUSHING WILL BE PERMITTED ON ANY PIPING.

   G. NO PIPING OR WORK OF ANY KIND SHALL BE CONCEALED OR COVERED UNTIL ALL REQUIRED TESTS HAVE BEEN SATISFACTORILY COMPLETED AND THE WORK HAS BEEN INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE AND ALL AUTHORITIES HAVING JURISDICTION.

   H. NO DEAD ENDS SHALL BE LEFT ON ANY DRAINAGE PIPE UPON COMPLETION OF THE WORK.

19. COORDINATION

   A. CERTAIN MATERIALS WILL BE FURNISHED, INSTALLED OR FURNISH INSTALLED, UNDER OTHER SECTIONS. EXAMINE THE CONTRACT DOCUMENTS TO ASCERTAIN THESE.

   B. TRASNMIT TO THE TRADES DOING THE WORK OF OTHER SECTIONS ALL THE INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR THEIR INSTALLATION.

   C. ALL NEW WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS

20. TESTING AND BALANCING

   A. PROVIDE LABOR MATERIALS, INSTRUMENTS, POWER, ETC. AS REQUIRED FOR TESTING AND BALANCING. ALL PIPING AND EQUIPMENT SHALL BE TESTED AS REQUIRED BY THE LOCAL BUILDING CODE. TESTS SHALL BE PERFORMED IN THE PRESENCES OF THE OWNER'S REPRESENTATIVE AND SUCH OTHER PARTIES AS MAY HAVE LEGAL JURISDICTION.

   B. NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 48 HOURS IN ADVANCE OF MAKING THE REQUIRED TESTS, SO THAT ARRANGEMENTS MAY BE MADE FOR THEIR PRESENCE TO WITNESS THE TESTS.

   C. TESTS SHALL BE APPLIED TO COMPLETED OR PARTIALLY COMPLETED SYSTEMS. IN NO CASE SHALL PIPING AND EQUIPMENT BE SUBJECTED TO PRESSURES EXCEEDING THEIR RATING.

   D. ALL DEFECTIVE WORK SHALL BE PROMPTLY REPAIRED OR REPLACED AND THE TESTS SHALL BE REPEATED UNTIL THE PARTICULAR SYSTEM AND ALL COMPONENTS PARTS RECEIVE THE APPROVAL OF THE OWNER'S REPRESENTATIVE.

   E. ANY DAMAGES RESULTING FROM TESTS SHALL BE REPAIRED AND/OR DAMAGED MATERIALS REPLACED. ALL TO THE SATISFACTION OF THE OWNER. THE DURATION OF TESTS SHALL NE AS DETERMINED BY ALL AUTHORITIES HAVING JURISDICTION.

21. SUBSTITUTION OR SPECIFIC MATERIALS

   A. THE PRODUCTS AND/OR MATERIALS LISTED IN THESE SPECIFICATIONS REPRESENT DESIRED MATERIALS AND CONSTRUCTION STANDARDS FOR THE VARIOUS ITEMS OR WORK. MANUFACTURER NAMES AND MODEL NUMBERS ARE USED TO DESCRIBE, TYPES, STYLES AND QUALITY. MATERIALS SUBMITTED FOR APPROVAL OTHER THAN SPECIFIED HEREIN MUST OR EXCEED THESE STANDARDS.

22. VALVE TAGS AND CHART

   A. EACH VALVE, EXCEPT VALVES AT FIXTURES, WILL HAVE A 2" DIAMETER. BRASS TAG WITH 1" HIGH NUMERAL STAMPED THEREON, SECURED TO THE VALVE BY MEANS OF BRASS S HOOK OR BRASS CHAIN. EACH SYSTEM TO HAVE A LETTER DESIGNATION AS WELL.

   B. THE CONTRACTOR SHALL FURNISH AN APPROVED, NEATLY DRAWN VALVE CHART, PROPERLY FRAMED SHOWING THE USE AND LOCATION OF EACH VALVE THAT IS TAGGED.

23. SLEEVE FIRE STOPPING

   A. ALL SLEEVES THROUGH RATED WALLS OR PARTITIONS SHALL FORM A U.L. (UL 1479 & ASTM E814 ASTM TESTED) CLASSIFIED FIRESTOP CAPABLE OF RETURNING THE WALL PARTITION BACK TO ITS UNPENETRATED FIRE RESISTANCE.

   B. FIRESTOPPING CAULK SHALL BE SIMILAR TO 3M CP 25WB + CAULK.

   C. FIRESTOPPING WRAP SHALL BE SIMILAR TO 3M FS–195 + WRAP/STRIP.

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P3.01

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